

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","375-73-5","PFBS","1.90","ng/L","J","0.835","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","307-24-4","PFHxA","14.1","ng/L","","1.02","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","375-85-9","PFHpA","6.30","ng/L","","0.276","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","355-46-4","PFHxS","1.14","ng/L","J","0.442","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","335-67-1","PFOA","17.4","ng/L","","0.304","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","1763-23-1","PFOS","6.38","ng/L","","0.376","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","375-95-1","PFNA","150","ng/L","","0.378","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","335-76-2","PFDA","44.8","ng/L","","0.695","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","2355-31-9","MeFOSAA","2.33","ng/L","U","0.769","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Dilution","1701802-01","Vista","2058-94-8","PFUnA","1340","ng/L","D","2.45","LOD","","TRG","","","18.6","LOQ","YES","-99","","0.268","0.001","11.7",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","2991-50-6","EtFOSAA","2.33","ng/L","U","0.639","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","307-55-1","PFDaA","2.25","ng/L","J","0.369","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","72629-94-8","PFTTrDA","5.42","ng/L","","0.230","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","376-06-7","PFTeDA","2.33","ng/L","U","0.352","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C3-PFBS","13C3-PFBS","123","%R","","-99","NA","","IS","123","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C2-PFHxA","13C2-PFHxA","117","%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C4-PFHpA","13C4-PFHpA","117","%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","18O2-PFHxS","18O2-PFHxS","124","%R","","-99","NA","","IS","124","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C2-PFOA","13C2-PFOA","96.8","%R","","-99","NA","","IS","96.8","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C8-PFOS","13C8-PFOS","145","%R","","-99","NA","","IS","145","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C5-PFNA","13C5-PFNA","122","%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C2-PFDA","13C2-PFDA","138","%R","","-99","NA","","IS","138","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","d3-MeFOSAA","d3-MeFOSAA","138","%R","","-99","NA","","IS","138","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Dilution","1701802-01","Vista","13C2-PFUnA","13C2-PFUnA","89.4","%R","D","-99","NA","","IS","89.4","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","d5-EtFOSAA","d5-EtFOSAA","147","%R","","-99","NA","","IS","147","","-99","NA","YES","100","","0.268","0.001","-99",""

"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C2-PFDoA","13C2-PFDoA","131","%R","",-99,"NA","","IS","131","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-NP-20171128","Modified EPA Method 537","Initial","1701802-01","Vista","13C2-PFTeDA","13C2-PFTeDA","150","%R","",-99,"NA","","IS","150","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","375-73-5","PFBS","1.15","ng/L","J","0.852","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","307-24-4","PFHxA","19.2","ng/L","","1.04","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","375-85-9","PFHpA","8.47","ng/L","","0.281","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","355-46-4","PFHxS","1.12","ng/L","J","0.451","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","335-67-1","PFOA","25.6","ng/L","","0.310","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","1763-23-1","PFOS","9.21","ng/L","","0.384","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Dilution","1701802-02","Vista","375-95-1","PFNA","196","ng/L","D","1.93","LOD","","TRG","","","19.0","LOQ","YES","-99","","0.263","0.001","11.9",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","335-76-2","PFDA","49.5","ng/L","","0.709","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","2355-31-9","MeFOSAA","2.38","ng/L","U","0.786","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Dilution","1701802-02","Vista","2058-94-8","PFUnA","1640","ng/L","D","2.50","LOD","","TRG","","","19.0","LOQ","YES","-99","","0.263","0.001","11.9",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","2991-50-6","EtFOSAA","2.38","ng/L","U","0.652","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","307-55-1","PFDoA","2.21","ng/L","J","0.377","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","72629-94-8","PFTTrDA","4.38","ng/L","","0.235","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","376-06-7","PFTeDA","2.38","ng/L","U","0.359","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C3-PFBS","13C3-PFBS","129","%R","",-99,"NA","","IS","129","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C2-PFHxA","13C2-PFHxA","114","%R","",-99,"NA","","IS","114","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C4-PFHpA","13C4-PFHpA","115","%R","",-99,"NA","","IS","115","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","1802-PFHxS","1802-PFHxS","113","%R","",-99,"NA","","IS","113","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C2-PFOA","13C2-PFOA","98.8","%R","",-99,"NA","","IS","98.8","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C8-PFOS","13C8-PFOS","113","%R","",-99,"NA","","IS","113","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Dilution","1701802-02","Vista","13C5-PFNA","13C5-PFNA","136","%R","D","-99,"NA","","IS","136","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C2-PFDA","13C2-PFDA","125","%R","",-99,"NA","","IS","125","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","d3-MeFOSAA","d3-MeFOSAA","140","%R","",-99,"NA","","IS","140","",-99,"NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Dilution","1701802-02","Vista","13C2-PFUnA","13C2-

PFUnA","97.6","%R","D","-99","NA","","IS","97.6","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","d5-EtFOSAA","d5-
EtFOSAA","137","%R","","-99","NA","","IS","137","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C2-PFDoA","13C2-
PFDoA","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P1-20171128","Modified EPA Method 537","Initial","1701802-02","Vista","13C2-PFTeDA","13C2-
PFTeDA","119","%R","","-99","NA","","IS","119","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","375-73-
5","PFBS","2.31","ng/L","U","0.825","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","307-24-
4","PFHxA","21.5","ng/L","","1.01","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","375-85-
9","PFHpA","9.70","ng/L","","0.272","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","355-46-
4","PFHxS","1.13","ng/L","J","0.437","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","335-67-
1","PFOA","28.1","ng/L","","0.300","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","1763-23-
1","PFOS","8.20","ng/L","","0.372","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Dilution","1701802-03","Vista","375-95-
1","PFNA","211","ng/L","D","1.87","LOD","","TRG","","","18.4","LOQ","YES","-99","","0.271","0.001","11.5",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","335-76-
2","PFDA","49.4","ng/L","","0.687","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","2355-31-
9","MeFOSAA","2.31","ng/L","U","0.761","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31"
,""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Dilution","1701802-03","Vista","2058-94-
8","PFUnA","1410","ng/L","D","2.42","LOD","","TRG","","","18.4","LOQ","YES","-99","","0.271","0.001","11.5",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","2991-50-
6","EtFOSAA","2.31","ng/L","U","0.632","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31"
,""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","307-55-
1","PFDoA","2.47","ng/L","J","0.365","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","72629-94-
8","PFTeDA","3.75","ng/L","","0.228","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","376-06-
7","PFTeDA","2.31","ng/L","U","0.348","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",
,""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C3-PFBS","13C3-
PFBS","124","%R","","-99","NA","","IS","124","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C2-PFHxA","13C2-
PFHxA","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C4-PFHpA","13C4-
PFHpA","113","%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","1802-PFHxS","1802-
PFHxS","110","%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C2-PFOA","13C2-
PFOA","97.7","%R","","-99","NA","","IS","97.7","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C8-PFOS","13C8-
PFOS","121","%R","","-99","NA","","IS","121","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Dilution","1701802-03","Vista","13C5-PFNA","13C5-
PFNA","116","%R","D","-99","NA","","IS","116","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C2-PFDA","13C2-
PFDA","133","%R","","-99","NA","","IS","133","","-99","NA","YES","100","","0.271","0.001","-99",""

"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","d3-MeFOSAA","d3-MeFOSAA","127","%R","",-99,"NA","","IS","127","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Dilution","1701802-03","Vista","13C2-PFUnA","13C2-PFUnA","101","%R","D","-99,"NA","","IS","101","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","d5-EtFOSAA","d5-EtFOSAA","121","%R","",-99,"NA","","IS","121","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C2-PFDoA","13C2-PFDoA","102","%R","",-99,"NA","","IS","102","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P2-20171128","Modified EPA Method 537","Initial","1701802-03","Vista","13C2-PFTeDA","13C2-PFTeDA","133","%R","",-99,"NA","","IS","133","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","375-73-5","PFBS","2.33","ng/L","U","0.834","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","307-24-4","PFHxA","21.7","ng/L","","1.02","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","375-85-9","PFHpA","8.92","ng/L","","0.275","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","355-46-4","PFHxS","0.950","ng/L","J","0.441","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","335-67-1","PFOA","25.1","ng/L","","0.303","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","1763-23-1","PFOS","7.53","ng/L","","0.376","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Dilution","1701802-04","Vista","375-95-1","PFNA","251","ng/L","D","1.89","LOD","","TRG","","","18.6","LOQ","YES","-99","","0.268","0.001","11.7",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","335-76-2","PFDA","55.2","ng/L","","0.694","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","2355-31-9","MeFOSAA","2.33","ng/L","U","0.769","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Dilution","1701802-04","Vista","2058-94-8","PFUnA","1330","ng/L","D","2.45","LOD","","TRG","","","18.6","LOQ","YES","-99","","0.268","0.001","11.7",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","2991-50-6","EtFOSAA","2.33","ng/L","U","0.638","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","307-55-1","PFDoA","2.02","ng/L","J","0.369","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","72629-94-8","PFTTrDA","2.74","ng/L","J","0.230","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","376-06-7","PFTeDA","2.33","ng/L","U","0.352","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C3-PFBS","13C3-PFBS","117","%R","",-99,"NA","","IS","117","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C2-PFHxA","13C2-PFHxA","105","%R","",-99,"NA","","IS","105","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C4-PFHpA","13C4-PFHpA","113","%R","",-99,"NA","","IS","113","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","1802-PFHxS","1802-PFHxS","117","%R","",-99,"NA","","IS","117","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C2-PFOA","13C2-PFOA","102","%R","",-99,"NA","","IS","102","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C8-PFOS","13C8-PFOS","129","%R","",-99,"NA","","IS","129","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Dilution","1701802-04","Vista","13C5-PFNA","13C5-

PFNA","91.4","%R","D","-99","NA","","IS","91.4","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C2-PFDA","13C2-
PFDA","145","%R","","-99","NA","","IS","145","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","d3-MeFOSAA","d3-
MeFOSAA","142","%R","","-99","NA","","IS","142","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Dilution","1701802-04","Vista","13C2-PFUnA","13C2-
PFUnA","83.9","%R","D","-99","NA","","IS","83.9","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","d5-EtFOSAA","d5-
EtFOSAA","131","%R","","-99","NA","","IS","131","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C2-PFDoA","13C2-
PFDoA","109","%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-P3-20171128","Modified EPA Method 537","Initial","1701802-04","Vista","13C2-PFTeDA","13C2-
PFTeDA","153","%R","H","-99","NA","","IS","153","","-99","NA","YES","100","","0.268","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","375-73-
5","PFBS","2.31","ng/L","U","0.826","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","307-24-
4","PFHxA","2.31","ng/L","U","1.01","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","375-85-
9","PFHpA","2.31","ng/L","U","0.273","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","355-46-
4","PFHxS","2.31","ng/L","U","0.437","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","335-67-
1","PFOA","2.31","ng/L","U","0.300","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","1763-23-
1","PFOS","2.31","ng/L","U","0.373","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","375-95-
1","PFNA","2.31","ng/L","U","0.374","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","335-76-
2","PFDA","2.31","ng/L","U","0.688","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","2355-31-
9","MeFOSAA","2.31","ng/L","U","0.762","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31"
,""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","2058-94-
8","PFUnA","2.31","ng/L","U","0.485","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","2991-50-
6","EtFOSAA","2.31","ng/L","U","0.632","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31"
,""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","307-55-
1","PFDoA","2.31","ng/L","U","0.366","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","72629-94-
8","PFTeDA","2.31","ng/L","U","0.228","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",""
,""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","376-06-
7","PFTeDA","2.31","ng/L","U","0.349","LOD","","TRG","","","3.69","LOQ","YES","-99","","0.271","0.001","2.31",
,""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C3-PFBS","13C3-
PFBS","130","%R","","-99","NA","","IS","130","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-PFHxA","13C2-
PFHxA","122","%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C4-PFHpA","13C4-
PFHpA","119","%R","","-99","NA","","IS","119","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","1802-PFHxS","1802-
PFHxS","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-PFOA","13C2-

PFOA","90.2","%R","",-99,"NA","","IS","90.2","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C8-PFOS","13C8-
PFOS","98.5","%R","",-99,"NA","","IS","98.5","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C5-PFNA","13C5-
PFNA","110","%R","",-99,"NA","","IS","110","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-PFDA","13C2-
PFDA","105","%R","",-99,"NA","","IS","105","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","d3-MeFOSAA","d3-
MeFOSAA","89.1","%R","",-99,"NA","","IS","89.1","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-PFUnA","13C2-
PFUnA","80.5","%R","",-99,"NA","","IS","80.5","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","d5-EtFOSAA","d5-
EtFOSAA","106","%R","",-99,"NA","","IS","106","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-PFDoA","13C2-
PFDoA","86.6","%R","",-99,"NA","","IS","86.6","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02SR1-FRB-20171128","Modified EPA Method 537","Initial","1701802-05","Vista","13C2-
PFTeDA","13C2-
PFTeDA","136","%R","",-99,"NA","","IS","136","",-99,"NA","YES","100","","0.271","0.001","-99",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","375-73-
5","PFBS","2.33","ng/L","U","0.834","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","307-24-
4","PFHxA","4.53","ng/L","","1.02","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","375-85-
9","PFHpA","3.41","ng/L","J","0.275","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","355-46-
4","PFHxS","1.33","ng/L","J","0.441","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","335-67-
1","PFOA","8.02","ng/L","","0.303","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","1763-23-
1","PFOS","30.3","ng/L","","0.376","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","375-95-
1","PFNA","30.8","ng/L","","0.377","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","335-76-
2","PFDA","0.951","ng/L","J","0.694","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","2355-31-
9","MeFOSAA","2.33","ng/L","U","0.768","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","2058-94-
8","PFUnA","6.13","ng/L","","0.489","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","2991-50-
6","EtFOSAA","2.33","ng/L","U","0.638","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","307-55-
1","PFDoA","2.33","ng/L","U","0.369","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","72629-94-
8","PFTTrDA","2.33","ng/L","U","0.230","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","376-06-
7","PFTeDA","2.33","ng/L","U","0.352","LOD","","TRG","","","3.73","LOQ","YES","-99","","0.268","0.001","2.33",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C3-PFBS","13C3-
PFBS","115","%R","",-99,"NA","","IS","115","",-99,"NA","YES","100","","0.268","0.001","-99",""
"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFHxA","13C2-
PFHxA","104","%R","",-99,"NA","","IS","104","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C4-PFHpA","13C4-PFHpA","121","%R","",-99,"NA","","IS","121","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","18O2-PFHxS","18O2-PFHxS","96.0","%R","",-99,"NA","","IS","96.0","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFOA","13C2-PFOA","101","%R","",-99,"NA","","IS","101","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C8-PFOS","13C8-PFOS","111","%R","",-99,"NA","","IS","111","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C5-PFNA","13C5-PFNA","115","%R","",-99,"NA","","IS","115","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFDA","13C2-PFDA","124","%R","",-99,"NA","","IS","124","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","d3-MeFOSAA","d3-MeFOSAA","144","%R","",-99,"NA","","IS","144","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFUnA","13C2-PFUnA","125","%R","",-99,"NA","","IS","125","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","d5-EtFOSAA","d5-EtFOSAA","154","%R","H","-99,"NA","","IS","154","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFDoA","13C2-PFDoA","109","%R","",-99,"NA","","IS","109","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-NP-20171128","Modified EPA Method 537","Initial","1701802-06","Vista","13C2-PFTeDA","13C2-PFTeDA","133","%R","",-99,"NA","","IS","133","",-99,"NA","YES","100","","0.268","0.001","-99",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","375-73-5","PFBS","1.15","ng/L","J","0.831","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","307-24-4","PFHxA","6.24","ng/L","","1.01","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","375-85-9","PFHpA","4.58","ng/L","","0.274","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","355-46-4","PFHxS","0.548","ng/L","J","0.439","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","335-67-1","PFOA","8.91","ng/L","","0.302","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","1763-23-1","PFOS","21.8","ng/L","","0.374","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","375-95-1","PFNA","82.1","ng/L","","0.376","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","335-76-2","PFDA","2.05","ng/L","J","0.691","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","2355-31-9","MeFOSAA","2.32","ng/L","U","0.766","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","2058-94-8","PFUnA","20.6","ng/L","","0.487","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","2991-50-6","EtFOSAA","2.32","ng/L","U","0.636","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","307-55-1","PFDoA","2.32","ng/L","U","0.368","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","72629-94-8","PFTTrDA","2.15","ng/L","J","0.229","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","376-06-7","PFTeDA","2.32","ng/L","U","0.350","LOD","","TRG","","","3.71","LOQ","YES","-99","","0.269","0.001","2.32",""

"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C3-PFBS","13C3-

PFBS","136","%R","",-99,"NA","","IS","136","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFHxA","13C2-
PFHxA","112","%R","",-99,"NA","","IS","112","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C4-PFHpA","13C4-
PFHpA","114","%R","",-99,"NA","","IS","114","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","18O2-PFHxS","18O2-
PFHxS","116","%R","",-99,"NA","","IS","116","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFOA","13C2-
PFOA","91.5","%R","",-99,"NA","","IS","91.5","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C8-PFOS","13C8-
PFOS","127","%R","",-99,"NA","","IS","127","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C5-PFNA","13C5-
PFNA","107","%R","",-99,"NA","","IS","107","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFDA","13C2-
PFDA","117","%R","",-99,"NA","","IS","117","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","d3-MeFOSAA","d3-
MeFOSAA","139","%R","",-99,"NA","","IS","139","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFUnA","13C2-
PFUnA","110","%R","",-99,"NA","","IS","110","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","d5-EtFOSAA","d5-
EtFOSAA","114","%R","",-99,"NA","","IS","114","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFDoA","13C2-
PFDoA","86.7","%R","",-99,"NA","","IS","86.7","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P1-20171128","Modified EPA Method 537","Initial","1701802-07","Vista","13C2-PFTeDA","13C2-
PFTeDA","163","%R","H","-99,"NA","","IS","163","",-99,"NA","YES","100","","0.269","0.001","-99",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","375-73-
5","PFBS","2.26","ng/L","U","0.812","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","307-24-
4","PFHxA","4.37","ng/L","","0.989","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","375-85-
9","PFHpA","3.17","ng/L","J","0.268","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","355-46-
4","PFHxS","1.25","ng/L","J","0.430","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","335-67-
1","PFOA","7.98","ng/L","","0.295","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","1763-23-
1","PFOS","32.0","ng/L","","0.366","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","375-95-
1","PFNA","28.5","ng/L","","0.368","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","335-76-
2","PFDA","2.26","ng/L","U","0.676","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","2355-31-
9","MeFOSAA","2.26","ng/L","U","0.749","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26"
,""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","2058-94-
8","PFUnA","5.42","ng/L","","0.476","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","2991-50-
6","EtFOSAA","2.26","ng/L","U","0.622","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26"
,""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","307-55-
1","PFDoA","2.26","ng/L","U","0.359","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","72629-94-
8","PFTTrDA","2.26","ng/L","U","0.224","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",""
,""

"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","376-06-7","PFTeDA","2.26","ng/L","U","0.343","LOD","","TRG","","","3.63","LOQ","YES","-99","","0.276","0.001","2.26",
""
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C3-PFBS","13C3-PFBS","142","%R","","-99","NA","","IS","142","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFHxA","13C2-PFHxA","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C4-PFHpA","13C4-PFHpA","114","%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","18O2-PFHxS","18O2-PFHxS","104","%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFOA","13C2-PFOA","95.2","%R","","-99","NA","","IS","95.2","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C8-PFOS","13C8-PFOS","118","%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C5-PFNA","13C5-PFNA","112","%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFDA","13C2-PFDA","130","%R","","-99","NA","","IS","130","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","d3-MeFOSAA","d3-MeFOSAA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFUnA","13C2-PFUnA","99.3","%R","","-99","NA","","IS","99.3","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","d5-EtFOSAA","d5-EtFOSAA","119","%R","","-99","NA","","IS","119","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFDoA","13C2-PFDoA","78.2","%R","","-99","NA","","IS","78.2","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P2-20171128","Modified EPA Method 537","Initial","1701802-08","Vista","13C2-PFTeDA","13C2-PFTeDA","157","%R","H","-99","NA","","IS","157","","-99","NA","YES","100","","0.276","0.001","-99",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","375-73-5","PFBS","2.38","ng/L","U","0.852","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","307-24-4","PFHxA","4.66","ng/L","","1.04","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","375-85-9","PFHpA","3.48","ng/L","J","0.281","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","355-46-4","PFHxS","1.30","ng/L","J","0.451","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","335-67-1","PFOA","8.04","ng/L","","0.310","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","1763-23-1","PFOS","33.0","ng/L","","0.384","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","375-95-1","PFNA","27.8","ng/L","","0.386","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","335-76-2","PFDA","2.38","ng/L","U","0.709","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","2355-31-9","MeFOSAA","2.38","ng/L","U","0.786","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","2058-94-8","PFUnA","6.66","ng/L","","0.500","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","2991-50-6","EtFOSAA","2.38","ng/L","U","0.652","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",
""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","307-55-

1","PFDoA","2.38","ng/L","U","0.377","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","72629-94-
8","PFTeDA","2.38","ng/L","U","0.235","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","376-06-
7","PFTeDA","2.38","ng/L","U","0.359","LOD","","TRG","","","3.81","LOQ","YES","-99","","0.263","0.001","2.38",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C3-PFBS","13C3-
PFBS","121","%R","","-99","NA","","IS","121","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFHxA","13C2-
PFHxA","118","%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C4-PFHpA","13C4-
PFHpA","114","%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","18O2-PFHxS","18O2-
PFHxS","115","%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFOA","13C2-
PFOA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C8-PFOS","13C8-
PFOS","138","%R","","-99","NA","","IS","138","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C5-PFNA","13C5-
PFNA","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFDA","13C2-
PFDA","161","%R","H","-99","NA","","IS","161","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","d3-MeFOSAA","d3-
MeFOSAA","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFUnA","13C2-
PFUnA","95.6","%R","","-99","NA","","IS","95.6","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","d5-EtFOSAA","d5-
EtFOSAA","132","%R","","-99","NA","","IS","132","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFDoA","13C2-
PFDoA","78.3","%R","","-99","NA","","IS","78.3","","-99","NA","YES","100","","0.263","0.001","-99",""
"FC-MW02IR1-P3-20171128","Modified EPA Method 537","Initial","1701802-09","Vista","13C2-PFTeDA","13C2-
PFTeDA","157","%R","H","-99","NA","","IS","157","","-99","NA","YES","100","","0.263","0.001","-99",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","375-73-
5","PFBS","2.50","ng/L","U","0.895","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","307-24-
4","PFHxA","2.50","ng/L","U","1.09","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","375-85-
9","PFHpA","2.50","ng/L","U","0.296","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","355-46-
4","PFHxS","2.50","ng/L","U","0.474","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","335-67-
1","PFOA","2.50","ng/L","U","0.326","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","1763-23-
1","PFOS","2.50","ng/L","U","0.404","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","375-95-
1","PFNA","2.50","ng/L","U","0.405","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","335-76-
2","PFDA","2.50","ng/L","U","0.745","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","2355-31-
9","MeFOSAA","2.50","ng/L","U","0.825","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","2058-94-
8","PFUnA","2.50","ng/L","U","0.525","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","2991-50-6","EtFOSAA","2.50","ng/L","U","0.685","LOD","","TRG","","","4.00","LOQ","YES",-99","","0.250","0.001","2.50",
,"
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","307-55-1","PFDaA","2.50","ng/L","U","0.396","LOD","","TRG","","","4.00","LOQ","YES",-99","","0.250","0.001","2.50",
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","72629-94-8","PFTTrDA","2.50","ng/L","U","0.247","LOD","","TRG","","","4.00","LOQ","YES",-99","","0.250","0.001","2.50",
,"
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","376-06-7","PFTeDA","2.50","ng/L","U","0.378","LOD","","TRG","","","4.00","LOQ","YES",-99","","0.250","0.001","2.50",
,"
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C3-PFBS","13C3-PFBS","137","%R","","-99","NA","","IS","137","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFHxA","13C2-PFHxA","121","%R","","-99","NA","","IS","121","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C4-PFHpA","13C4-PFHpA","126","%R","","-99","NA","","IS","126","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","18O2-PFHxS","18O2-PFHxS","126","%R","","-99","NA","","IS","126","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFOA","13C2-PFOA","109","%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C8-PFOS","13C8-PFOS","125","%R","","-99","NA","","IS","125","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C5-PFNA","13C5-PFNA","117","%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFDA","13C2-PFDA","161","%R","H",-99,"NA","","IS","161","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","d3-MeFOSAA","d3-MeFOSAA","141","%R","","-99","NA","","IS","141","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFUnA","13C2-PFUnA","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","d5-EtFOSAA","d5-EtFOSAA","150","%R","","-99","NA","","IS","150","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFDaA","13C2-PFDaA","110","%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BLK1","Modified EPA Method 537","Initial","B7L0125-BLK1","Vista","13C2-PFTeDA","13C2-PFTeDA","140","%R","","-99","NA","","IS","140","","-99","NA","YES","100","","0.250","0.001",-99,""
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","375-73-5","PFBS","32.3","ng/L","","0.895","LOD","","TRG","80.7","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","307-24-4","PFHxA","36.8","ng/L","","1.09","LOD","","TRG","92.0","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","375-85-9","PFHpA","36.0","ng/L","","0.296","LOD","","TRG","90.0","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","355-46-4","PFHxS","37.3","ng/L","","0.474","LOD","","TRG","93.2","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","335-67-1","PFOA","33.9","ng/L","","0.326","LOD","","TRG","84.7","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",
,"
"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","1763-23-1","PFOS","41.6","ng/L","","0.404","LOD","","TRG","104","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",

"

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","375-95-1","PFNA","29.4","ng/L","","0.405","LOD","","TRG","73.5","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","335-76-2","PFDA","33.7","ng/L","","0.745","LOD","","TRG","84.2","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","2355-31-9","MeFOSAA","29.9","ng/L","","0.825","LOD","","TRG","74.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","2058-94-8","PFUnA","35.8","ng/L","","0.525","LOD","","TRG","89.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","2991-50-6","EtFOSAA","35.2","ng/L","","0.685","LOD","","TRG","88.0","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","307-55-1","PFDoA","43.6","ng/L","","0.396","LOD","","TRG","109","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","72629-94-8","PFTTrDA","39.1","ng/L","","0.247","LOD","","TRG","97.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","376-06-7","PFTeDA","29.8","ng/L","","0.378","LOD","","TRG","74.5","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C3-PFBS","13C3-PFBS","122","%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFHxA","13C2-PFHxA","113","%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C4-PFHpA","13C4-PFHpA","95.5","%R","","-99","NA","","IS","95.5","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","18O2-PFHxS","18O2-PFHxS","114","%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFOA","13C2-PFOA","104","%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C8-PFOS","13C8-PFOS","132","%R","","-99","NA","","IS","132","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C5-PFNA","13C5-PFNA","118","%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFDA","13C2-PFDA","121","%R","","-99","NA","","IS","121","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","d3-MeFOSAA","d3-MeFOSAA","150","%R","","-99","NA","","IS","150","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFUnA","13C2-PFUnA","118","%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","d5-EtFOSAA","d5-EtFOSAA","128","%R","","-99","NA","","IS","128","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFDoA","13C2-PFDoA","108","%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BS1","Modified EPA Method 537","Initial","B7L0125-BS1","Vista","13C2-PFTeDA","13C2-PFTeDA","149","%R","","-99","NA","","IS","149","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","375-73-5","PFBS","35.0","ng/L","","0.895","LOD","","TRG","87.5","8.16","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","307-24-4","PFHxA","34.9","ng/L","","1.09","LOD","","TRG","87.2","5.39","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","375-85-9","PFHpA","33.0","ng/L","","0.296","LOD","","TRG","82.5","8.67","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","355-46-4","PFHxS","29.6","ng/L","","0.474","LOD","","TRG","74.0","22.9","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","335-67-1","PFOA","30.0","ng/L","","0.326","LOD","","TRG","75.0","12.2","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","1763-23-1","PFOS","48.8","ng/L","","0.404","LOD","","TRG","122","15.8","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","375-95-1","PFNA","31.0","ng/L","","0.405","LOD","","TRG","77.5","5.31","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","335-76-2","PFDA","37.4","ng/L","","0.745","LOD","","TRG","93.4","10.4","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","2355-31-9","MeFOSAA","28.1","ng/L","","0.825","LOD","","TRG","70.1","6.24","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","2058-94-8","PFUnA","36.2","ng/L","","0.525","LOD","","TRG","90.5","1.02","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","2991-50-6","EtFOSAA","31.0","ng/L","","0.685","LOD","","TRG","77.4","12.8","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","307-55-1","PFDaA","36.4","ng/L","","0.396","LOD","","TRG","90.9","18.2","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","72629-94-8","PFTrDA","25.6","ng/L","","0.247","LOD","","TRG","64.1","41.5","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","376-06-7","PFTeDA","38.4","ng/L","","0.378","LOD","","TRG","95.9","25.2","4.00","LOQ","YES","40.0","","0.250","0.001","2.50",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C3-PFBS","13C3-PFBS","139","%R","","-99","NA","","IS","139","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFHxA","13C2-PFHxA","132","%R","","-99","NA","","IS","132","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C4-PFHpA","13C4-PFHpA","134","%R","","-99","NA","","IS","134","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","18O2-PFHxS","18O2-PFHxS","121","%R","","-99","NA","","IS","121","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFOA","13C2-PFOA","113","%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C8-PFOS","13C8-PFOS","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C5-PFNA","13C5-PFNA","138","%R","","-99","NA","","IS","138","","-99","NA","YES","100","","0.250","0.001","-99",""

"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFDA","13C2-

PFDA","101","%R","",-99,"NA","","IS","101","",-99,"NA","YES","100","","0.250","0.001","-99",""
"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","d3-MeFOSAA","d3-
MeFOSAA","107","%R","",-99,"NA","","IS","107","",-99,"NA","YES","100","","0.250","0.001","-99",""
"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFUnA","13C2-
PFUnA","87.3","%R","",-99,"NA","","IS","87.3","",-99,"NA","YES","100","","0.250","0.001","-99",""
"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","d5-EtFOSAA","d5-
EtFOSAA","113","%R","",-99,"NA","","IS","113","",-99,"NA","YES","100","","0.250","0.001","-99",""
"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFDoA","13C2-
PFDoA","91.2","%R","",-99,"NA","","IS","91.2","",-99,"NA","YES","100","","0.250","0.001","-99",""
"B7L0125-BSD1","Modified EPA Method 537","Initial","B7L0125-BSD1","Vista","13C2-PFTeDA","13C2-
PFTeDA","91.3","%R","",-99,"NA","","IS","91.3","",-99,"NA","YES","100","","0.250","0.001","-99",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-NP-20171128","11/28/2017 08:03","AQ","1701802-
01","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
20:26","Vista","COA","WET","NA","1","NA","NA","01/01/1900
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"112G08005-WE05","112G08005-WE05","FC-MW02SR1-NP-20171128","11/28/2017 08:03","AQ","1701802-
01","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
09:42","Vista","COA","WET","NA","1","NA","NA","01/01/1900
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"112G08005-WE05","112G08005-WE05","FC-MW02SR1-NP-20171128","11/28/2017 08:03","AQ","1701802-
01","NM","","0.70","Modified EPA Method 537","METHOD","Dilution","12/18/2017 17:15","01/12/2018
07:22","Vista","COA","WET","NA","5","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-P1-20171128","11/28/2017 08:40","AQ","1701802-
02","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
20:38","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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02","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
09:54","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-P1-20171128","11/28/2017 08:40","AQ","1701802-
02","NM","","0.70","Modified EPA Method 537","METHOD","Dilution","12/18/2017 17:15","01/12/2018
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00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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03","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
20:49","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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03","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
10:05","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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03","NM","","0.70","Modified EPA Method 537","METHOD","Dilution","12/18/2017 17:15","01/12/2018
07:44","Vista","COA","WET","NA","5","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-P3-20171128","11/28/2017 09:10","AQ","1701802-
04","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
10:17","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-P3-20171128","11/28/2017 09:10","AQ","1701802-
04","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
21:00","Vista","COA","WET","NA","1","NA","NA","01/01/1900

00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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04","NM","","0.70","Modified EPA Method 537","METHOD","Dilution","12/18/2017 17:15","01/12/2018
07:56","Vista","COA","WET","NA","5","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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05","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
21:11","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02SR1-FRB-20171128","11/28/2017 09:00","AQ","1701802-
05","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
10:28","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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06","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
10:39","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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06","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
21:22","Vista","COA","WET","NA","1","NA","NA","01/01/1900
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"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P1-20171128","11/28/2017 10:17","AQ","1701802-
07","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
21:33","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P1-20171128","11/28/2017 10:17","AQ","1701802-
07","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
10:50","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P2-20171128","11/28/2017 10:45","AQ","1701802-
08","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
22:18","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P2-20171128","11/28/2017 10:45","AQ","1701802-
08","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
11:02","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P3-20171128","11/28/2017 10:57","AQ","1701802-
09","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017
22:30","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
"112G08005-WE05","112G08005-WE05","FC-MW02IR1-P3-20171128","11/28/2017 10:57","AQ","1701802-
09","NM","","0.70","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018
11:13","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","11/29/2017 09:37","01/01/1900 00:00",""
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09:27","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00",""
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16:43","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00",""
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BS1","LCS","",-99","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017 16:20","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","B7L0125-BS1","01/01/1900 00:00","AQ","B7L0125-BS1","LCS","",-99","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018 09:04","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","B7L0125-BSD1","01/01/1900 00:00","AQ","B7L0125-BSD1","LCSD","",-99","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","12/29/2017 16:31","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","B7L0125-BSD1","01/01/1900 00:00","AQ","B7L0125-BSD1","LCSD","",-99","Modified EPA Method 537","METHOD","Initial","12/18/2017 17:15","01/05/2018 09:16","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0125","B7L0125","NA","S7L0095","1701802","01/01/1900 00:00","01/01/1900 00:00",""



TETRA TECH

INTERNAL CORRESPONDENCE

TO: K. FRANCISCO **DATE:** FEBRUARY 20, 2018
FROM: TERRI L. SOLOMON **COPIES:** DV FILE
SUBJECT: ORGANIC DATA VALIDATION – POLYFLUOROALKYL SUBSTANCES (PFAS)
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP), CALVERTON
SAMPLE DELIVERY GROUP (SDG) 1701802

SAMPLES: 8/Groundwater
FC-MW02IR1-NP-20171128 FC-MW02IR1-P1-20171128
FC-MW02IR1-P2-20171128 FC-MW02IR1-P3-20171128
FC-MW02SR1-NP-20171128 FC-MW02SR1-P1-20171128
FC-MW02SR1-P2-20171128 FC-MW02SR1-P3-20171128

1/Field Reagent Blank (FRB)
FC-MW02SR1-FRB-20171128

Overview

The sample set for NWIRP Calverton, SDG 1701802 consisted of eight (8) aqueous environmental samples and one (1) FRB sample. All samples were analyzed for polyfluoroalkyl substances (PFAS). No field duplicate sample pairs were included in this SDG.

The samples were collected by Tetra Tech, Inc. on November 28, 2017 and analyzed by Vista Analytical Laboratory. All analyses were conducted in accordance with EPA Method 537 Modified analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

- * • Data completeness
- Hold times/Sample Preservation
- * • LC/MS/MS System Tuning and Performance
- * • Initial/Continuing Calibrations
- * • Laboratory Method Blank Results
- * • Field Reagent Blank Results
- Isotope Dilution Analyte Surrogate Recoveries
- Laboratory Control Sample / Laboratory Control Sample Duplicate Recoveries
- * • Ongoing Precision Recovery (OPR) Results
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, and documentation supporting these findings is presented in Appendix C.

PFAS

The original sample results for perfluoroundecanoic acid (PFUnA) for samples FC-MW02SR1-NP-20171128, FC-MW02SR1-P1-20171128, FC-MW02SR1-P2-20171128 and FC-MW02SR1-P3-20171128 were above the calibration range of the instrument. The laboratory reextracted the samples six days past the hold time and reanalyzed PFUnA at a 5X dilution. The reextracted sample results for PFUnA for the aforementioned samples were qualified as estimated (J) as a result of hold time noncompliances.

The labeled standard recoveries for d3-n-methyl perfluorooctane sulfonamidoacetic acid (d3-MeFOSAA) and 13C2-perfluorotetradecanoic acid (13C2-PFTeDA) were below the quality control limits for sample FC-MW02SR1-FRB-20171128. The non-detected associated results in the affected sample were qualified as estimated, (UJ).

The labeled standard recovery for d5-n-ethyl perfluorooctane sulfonamidoacetic acid (d3-EtFOSAA) was below the quality control limit for sample FC-MW02SR1-P1-20171128. The non-detected associated result in the affected sample was qualified as estimated, (UJ).

The labeled standard recoveries for 13C2-perfluorodecanoic acid (13C2-PFDA), 13C2-perfluorododecanoic acid (13C2-PFDoA) and 13C2-PFTeDA were below the quality control limits for sample FC-MW02SR1-P3-20171128. The non-detected associated results in the affected sample were qualified as estimated, (UJ).

The laboratory control sample (LCS) percent recoveries for all compounds with the exception of perfluorooctane sulfonic acid (PFOS) and perfluorononanoic acid (PFNA) were above the quality control limits. All laboratory control sample duplicate (LCSD) percent recoveries were within the quality control limits. The LCS/LCSD relative percent differences (RPDs) for perfluorobutanesulfonic acid (PFBS), perfluorohexanoic acid (PFHxA), perfluorohexanesulfonic acid (PFHxS), pentadecafluorooctanoic acid (PFOA), perfluorodecanoic acid (PFDA), n-methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA), perfluorododecanoic acid (PFDoA), perfluorotridecanoic acid (PFTrDA) and perfluorotetradecanoic acid (PFTeDA) were outside the quality control limits. The detected results reported for the aforementioned compounds in the affected samples were qualified as estimated (J).

Detected results reported below the Limit of Quantitation (LOQ) but above the Method Detection Limit (MDL) were qualified as estimated, (J). Non-detected results were reported to the LOD.

Additional Comments

All samples were re-extracted six days past the 14 day extraction hold time due to LCS recoveries. All samples were re-analyzed within the 28 days from extraction hold time with the following exceptions; perfluorotetradecanoic acid (PFTeDA) was re-analyzed 14 days past the 28 day analysis hold time for all samples. The original analyses were chosen for validation purposes with the following exceptions; PFUnA for samples FC-MW02SR1-NP-20171128, FC-MW02SR1-P1-20171128, FC-MW02SR1-P2-20171128 and FC-MW02SR1-P3-20171128 due to original results above the calibration range of the instrument.

It was noted by the laboratory that the original analyses of all samples had one or more injected internal standards outside quality control limits. The laboratory re-injected the samples with similar results. All re-injected results are reported. No validation action was required as the injected internal standard does not affect sample results.

All samples in this SDG were associated with FRB sample FC-MW02SR1-FRB-20171128. No detected results were present in the FRB.

Executive Summary

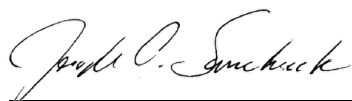
Laboratory Performance Issues: Several extraction and analyses hold times were exceeded. Several labeled standard recoveries were outside the quality control limits. Several LCS percent recoveries and LCS/LCSD RPDs were outside the quality control limits.

Other Factors Affecting Data Quality: Detected results below the LOQ were estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Superfund Methods Data Review" (January 2017), the Environmental Protection Agency document EPA/600/R-08/092, Method 537, "Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)", (September 2009) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (2013). The text of this report has been formulated to address only those areas affecting data quality.



Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-WE05 SDG: 1701802 FRACTION: PFAS MEDIA: WATER	NSAMPLE	FC-MW02IR1-NP-20171128			FC-MW02IR1-P1-20171128			FC-MW02IR1-P2-20171128			FC-MW02IR1-P3-20171128		
	LAB_ID	1701802-06			1701802-07			1701802-08			1701802-09		
	SAMP_DATE	11/28/2017			11/28/2017			11/28/2017			11/28/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.46	U		2.39	UJ	R	2.34	U		2.43	U	
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.46	U		2.39	U		2.34	U		2.43	U	
PENTADEC AFLUOROOCTANOIC ACID		10.8	J	E	12.7	J	E	9.37	J	E	11.7	J	E
PERFLUOROBUTANESULFONIC ACID		2.46	U		1.13	J	EP	2.34	U		2.43	U	
PERFLUORODECANOIC ACID		2.46	U		2.24	J	EP	1.02	J	EP	2.43	UJ	R
PERFLUORODODECANOIC ACID		2.46	U		2.39	U		2.34	U		2.43	UJ	R
PERFLUOROHEPTANOIC ACID		4.4	J	E	6.18	J	E	3.9	J	E	4.12	J	E
PERFLUOROHEXANESULFONIC ACID		1.74	J	EP	1.5	J	EP	1.32	J	EP	1.39	J	EP
PERFLUOROHEXANOIC ACID		4.95	J	E	6.93	J	E	2.34	U		5.3	J	E
PERFLUORONONANOIC ACID		43.1			124			44			40.4		
PERFLUOROOCTANE SULFONIC ACID		26.3			14.7			31.7			26.7		
PERFLUOROTETRADECANOIC ACID		2.46	U		2.39	U		2.34	U		2.43	UJ	R
PERFLUOROTRIDECANOIC ACID		2.46	U		2.39	U		2.34	U		2.43	U	
PERFLUOROUNDECANOIC ACID		7.35	J	E	24.4	J	E	5.95	J	E	6.72	J	E

PROJ_NO: 08005-WE05 SDG: 1701802 FRACTION: PFAS MEDIA: WATER	NSAMPLE	FC-MW02SR1-FRB-20171128			FC-MW02SR1-NP-20171128			FC-MW02SR1-P1-20171128			FC-MW02SR1-P2-20171128		
	LAB_ID	1701802-05			1701802-01			1701802-02			1701802-03		
	SAMP_DATE	11/28/2017			11/28/2017			11/28/2017			11/28/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.39	U		2.41	U		2.39	U		2.36	U	
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.39	UJ	R	2.41	U		2.39	U		2.36	U	
PENTADEC AFLUOROOCTANOIC ACID		2.39	U		29.7	J	E	36.6	J	E	36.9	J	E
PERFLUOROBUTANESULFONIC ACID		2.39	U		2.35	J	EP	1.39	J	EP	2.36	U	
PERFLUORODECANOIC ACID		2.39	U		56.9	J	E	63.7	J	E	70.8	J	E
PERFLUORODODECANOIC ACID		2.39	U		2.4	J	EP	2.14	J	EP	2.36	U	
PERFLUOROHEPTANOIC ACID		2.39	U		7.63	J	E	10.8	J	E	10.3	J	E
PERFLUOROHEXANESULFONIC ACID		2.39	U		2.41	U		1.9	J	EP	1.63	J	EP
PERFLUOROHEXANOIC ACID		2.39	U		16.5	J	E	19.7	J	E	22.8	J	E
PERFLUORONONANOIC ACID		2.39	U		181			314			316		
PERFLUOROOCTANE SULFONIC ACID		2.39	U		4.41			7.96			11.2		
PERFLUOROTETRADECANOIC ACID		2.39	UJ	R	2.41	U		2.39	U		2.36	U	
PERFLUOROTRIDECANOIC ACID		2.39	U		5.26	J	E	3.46	J	EP	2.36	U	
PERFLUOROUNDECANOIC ACID		2.39	U		1340	J	H	1640	J	H	1410	J	H

PROJ_NO: 08005-WE05 SDG: 1701802 FRACTION: PFAS MEDIA: WATER	NSAMPLE	FC-MW02SR1-P3-20171128		
	LAB_ID	1701802-04		
	SAMP_DATE	11/28/2017		
	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
N-ETHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.41	U	
N-METHYL PERFLUOROOCTANE SULFONAMIDOACETIC ACID		2.41	U	
PENTADEC AFLUOROOCTANOIC ACID		39.6	J	E
PERFLUOROBUTANESULFONIC ACID		2.41	U	
PERFLUORODECANOIC ACID		80.7	J	E
PERFLUORODODECANOIC ACID		1.83	J	EP
PERFLUOROHEPTANOIC ACID		13.2	J	E
PERFLUOROHEXANESULFONIC ACID		1.73	J	EP
PERFLUOROHEXANOIC ACID		26.7	J	E
PERFLUORONONANOIC ACID		346		
PERFLUOROOCTANE SULFONIC ACID		11.3		
PERFLUOROTETRADECANOIC ACID		2.41	U	
PERFLUOROTRIDECANOIC ACID		2.41	U	
PERFLUOROUNDECANOIC ACID		1330	J	H

Appendix B

Results as Reported by the Laboratory

Sample ID: FC-MW02SR1-NP-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-01	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:03	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	2.35	0.863	2.41	3.86	J	B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFHxA	16.5	1.05	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFHpA	7.63	0.285	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFHxS	ND	0.456	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFOA	29.7	0.314	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFOS	4.41	0.389	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFNA	181	0.390	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFDA	56.9	0.718	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
MeFOSAA	ND	0.795	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFUnA	1330	0.506	2.41	3.86	E	B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
EtFOSAA	ND	0.660	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFDaA	2.40	0.382	2.41	3.86	J	B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFTTrDA	5.26	0.238	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
PFTeDA	ND	0.364	2.41	3.86		B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	69.5	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFHxA	IS	75.3	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C4-PFHpA	IS	79.4	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
18O2-PFHxS	IS	71.6	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFOA	IS	72.7	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C8-PFOS	IS	76.8	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C5-PFNA	IS	64.2	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFDA	IS	70.8	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
d3-MeFOSAA	IS	58.6	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFUnA	IS	60.3	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
d5-EtFOSAA	IS	51.9	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFDaA	IS	63.2	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1
13C2-PFTeDA	IS	62.7	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 19:32	1

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P1-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-02	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:40	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	1.39	0.857	2.39	3.83	J	B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFHxA	19.7	1.04	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFHpA	10.8	0.283	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFHxS	1.90	0.453	2.39	3.83	J	B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFOA	36.6	0.312	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFOS	7.96	0.386	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFNA	314	0.388	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFDA	63.7	0.713	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
MeFOSAA	ND	0.790	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFUnA	1280	0.503	2.39	3.83	E	B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
EtFOSAA	ND	0.656	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFDaA	2.14	0.379	2.39	3.83	J	B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFTTrDA	3.46	0.237	2.39	3.83	J	B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
PFTeDA	ND	0.361	2.39	3.83		B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	85.4	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFHxA	IS	81.2	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C4-PFHpA	IS	81.2	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
18O2-PFHxS	IS	77.6	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFOA	IS	84.5	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C8-PFOS	IS	95.9	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C5-PFNA	IS	78.3	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFDA	IS	58.9	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
d3-MeFOSAA	IS	68.4	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFUnA	IS	71.7	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
d5-EtFOSAA	IS	73.9	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFDaA	IS	78.1	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1
13C2-PFTeDA	IS	80.6	50 - 150			B7L0027	06-Dec-17	0.261 L	15-Dec-17 19:43	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P2-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-03	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:54	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.845	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFHxA	22.8	1.03	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFHpA	10.3	0.279	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFHxS	1.63	0.447	2.36	3.78	J	B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFOA	36.9	0.307	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFOS	11.2	0.381	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFNA	316	0.382	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFDA	70.8	0.703	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
MeFOSAA	ND	0.779	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFUnA	1520	0.496	2.36	3.78	E	B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
EtFOSAA	ND	0.647	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFDaA	ND	0.374	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFTTrDA	ND	0.233	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
PFTeDA	ND	0.356	2.36	3.78		B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	74.3	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFHxA	IS	71.6	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C4-PFHpA	IS	79.6	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
18O2-PFHxS	IS	81.1	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFOA	IS	70.9	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C8-PFOS	IS	71.0	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C5-PFNA	IS	69.1	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFDA	IS	62.4	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
d3-MeFOSAA	IS	54.8	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFUnA	IS	65.0	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
d5-EtFOSAA	IS	59.1	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFDaA	IS	64.7	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1
13C2-PFTeDA	IS	77.2	50 - 150			B7L0027	06-Dec-17	0.265 L	15-Dec-17 20:27	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P3-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-04	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 09:10	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.866	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFHxA	26.7	1.05	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFHpA	13.2	0.286	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFHxS	1.73	0.458	2.41	3.87	J	B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFOA	39.6	0.315	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFOS	11.3	0.390	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFNA	346	0.392	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFDA	80.7	0.720	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
MeFOSAA	ND	0.798	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFUnA	1790	0.508	2.41	3.87	E	B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
EtFOSAA	ND	0.662	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFDoA	1.83	0.383	2.41	3.87	J	B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFTTrDA	ND	0.239	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
PFTeDA	ND	0.365	2.41	3.87		B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	77.7	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFHxA	IS	69.2	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C4-PFHpA	IS	74.1	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
18O2-PFHxS	IS	68.6	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFOA	IS	69.1	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C8-PFOS	IS	69.0	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C5-PFNA	IS	65.4	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFDA	IS	52.4	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
d3-MeFOSAA	IS	56.5	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFUnA	IS	68.8	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
d5-EtFOSAA	IS	59.4	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFDoA	IS	62.9	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1
13C2-PFTeDA	IS	68.9	50 - 150			B7L0027	06-Dec-17	0.259 L	15-Dec-17 20:39	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitationLCL-UCL- Lower control limit - upper control limit
Results reported to the DL.When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-FRB-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	QC Water	Lab Sample:	1701802-05	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 09:00	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.856	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFHxA	ND	1.04	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFHpA	ND	0.283	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFHxS	ND	0.453	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFOA	ND	0.311	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFOS	ND	0.386	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFNA	ND	0.387	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFDA	ND	0.712	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
MeFOSAA	ND	0.789	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFUnA	ND	0.502	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
EtFOSAA	ND	0.655	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFDaA	ND	0.379	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFTTrDA	ND	0.236	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
PFTeDA	ND	0.361	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	82.8	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFHxA	IS	77.3	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C4-PFHpA	IS	80.2	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
18O2-PFHxS	IS	75.0	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFOA	IS	73.5	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C8-PFOS	IS	81.7	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C5-PFNA	IS	73.2	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFDA	IS	58.2	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
d3-MeFOSAA	IS	45.4	50 - 150		H	B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFUnA	IS	66.6	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
d5-EtFOSAA	IS	50.0	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFDaA	IS	54.4	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1
13C2-PFTeDA	IS	47.2	50 - 150		H	B7L0027	06-Dec-17	0.262 L	15-Dec-17 20:50	1

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-NP-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-06	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 09:50	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.880	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFHxA	4.95	1.07	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFHpA	4.40	0.291	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFHxS	1.74	0.466	2.46	3.93	J	B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFOA	10.8	0.320	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFOS	26.3	0.397	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFNA	43.1	0.398	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFDA	ND	0.732	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
MeFOSAA	ND	0.811	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFUnA	7.35	0.516	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
EtFOSAA	ND	0.673	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFDaA	ND	0.389	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFTTrDA	ND	0.243	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
PFTeDA	ND	0.371	2.46	3.93		B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	79.8	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFHxA	IS	75.9	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C4-PFHpA	IS	73.3	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
18O2-PFHxS	IS	67.3	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFOA	IS	75.2	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C8-PFOS	IS	69.0	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C5-PFNA	IS	63.2	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFDA	IS	54.9	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
d3-MeFOSAA	IS	50.3	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFUnA	IS	63.5	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
d5-EtFOSAA	IS	55.7	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFDaA	IS	65.0	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1
13C2-PFTeDA	IS	62.4	50 - 150			B7L0027	06-Dec-17	0.254 L	15-Dec-17 21:01	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P1-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-07	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:17	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	1.13	0.854	2.39	3.82	J	B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFHxA	6.93	1.04	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFHpA	6.18	0.282	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFHxS	1.50	0.452	2.39	3.82	J	B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFOA	12.7	0.311	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFOS	14.7	0.385	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFNA	124	0.386	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFDA	2.24	0.711	2.39	3.82	J	B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
MeFOSAA	ND	0.787	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFUnA	24.4	0.501	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
EtFOSAA	ND	0.654	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFDaA	ND	0.378	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFTTrDA	ND	0.236	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
PFTeDA	ND	0.360	2.39	3.82		B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	107	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFHxA	IS	87.3	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C4-PFHpA	IS	86.2	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
18O2-PFHxS	IS	78.3	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFOA	IS	67.4	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C8-PFOS	IS	81.1	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C5-PFNA	IS	70.1	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFDA	IS	61.4	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
d3-MeFOSAA	IS	54.0	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFUnA	IS	55.4	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
d5-EtFOSAA	IS	44.6	50 - 150		H	B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFDaA	IS	54.7	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1
13C2-PFTeDA	IS	57.5	50 - 150			B7L0027	06-Dec-17	0.262 L	15-Dec-17 21:12	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P2-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-08	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:45	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.839	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFHxA	ND	1.02	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFHpA	3.90	0.277	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFHxS	1.32	0.444	2.34	3.75	J	B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFOA	9.37	0.305	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFOS	31.7	0.378	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFNA	44.0	0.380	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFDA	1.02	0.698	2.34	3.75	J	B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
MeFOSAA	ND	0.773	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFUnA	5.95	0.492	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
EtFOSAA	ND	0.642	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFDaA	ND	0.371	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFTTrDA	ND	0.232	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
PFTeDA	ND	0.354	2.34	3.75		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	89.9	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFHxA	IS	77.5	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C4-PFHpA	IS	74.2	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
18O2-PFHxS	IS	81.0	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFOA	IS	72.0	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C8-PFOS	IS	81.8	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C5-PFNA	IS	67.0	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFDA	IS	60.6	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
d3-MeFOSAA	IS	57.5	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFUnA	IS	65.4	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
d5-EtFOSAA	IS	56.3	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFDaA	IS	59.9	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	
13C2-PFTeDA	IS	55.9	50 - 150		B7L0027	06-Dec-17	0.267 L	15-Dec-17 21:23	1	

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P3-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-09	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:57	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.870	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFHxA	5.30	1.06	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFHpA	4.12	0.287	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFHxS	1.39	0.460	2.43	3.89	J	B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFOA	11.7	0.316	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFOS	26.7	0.392	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFNA	40.4	0.394	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFDA	ND	0.724	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
MeFOSAA	ND	0.802	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFUnA	6.72	0.510	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
EtFOSAA	ND	0.666	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFDaA	ND	0.385	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFTTrDA	ND	0.240	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
PFTeDA	ND	0.367	2.43	3.89		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	73.8	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFHxA	IS	69.0	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C4-PFHpA	IS	66.2	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
18O2-PFHxS	IS	65.0	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFOA	IS	72.9	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C8-PFOS	IS	86.7	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C5-PFNA	IS	67.9	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFDA	IS	42.0	50 - 150	H	B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
d3-MeFOSAA	IS	50.7	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFUnA	IS	51.8	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
d5-EtFOSAA	IS	50.0	50 - 150		B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFDaA	IS	42.7	50 - 150	H	B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	
13C2-PFTeDA	IS	45.8	50 - 150	H	B7L0027	06-Dec-17	0.257 L	15-Dec-17 21:35	1	

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitationLCL-UCL- Lower control limit - upper control limit
Results reported to the DL.When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-NP-20171128						Modified EPA Method 537				
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-01	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:03	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	1.90	0.835	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFHxA	14.1	1.02	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFHpA	6.30	0.276	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFHxS	1.14	0.442	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFOA	17.4	0.304	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFOS	6.38	0.376	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFNA	150	0.378	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFDA	44.8	0.695	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
MeFOSAA	ND	0.769	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFUnA	1340	2.45	11.7	18.6	D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:22	5
EtFOSAA	ND	0.639	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFDaA	2.25	0.369	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFTTrDA	5.42	0.230	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
PFTeDA	ND	0.352	2.33	3.73		B7L0125	18-Dec-17	0.268 L	29-Dec-17 20:26	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	123	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFHxA	IS	117	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C4-PFHpA	IS	117	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
18O2-PFHxS	IS	124	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFOA	IS	96.8	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C8-PFOS	IS	145	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C5-PFNA	IS	122	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFDA	IS	138	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
d3-MeFOSAA	IS	138	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFUnA	IS	89.4	50 - 150		D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:22	5
d5-EtFOSAA	IS	147	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFDaA	IS	131	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 09:42	1
13C2-PFTeDA	IS	150	50 - 150			B7L0125	18-Dec-17	0.268 L	29-Dec-17 20:26	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P1-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-02	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:40	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	1.15	0.852	2.38	3.81	J	B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFHxA	19.2	1.04	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFHpA	8.47	0.281	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFHxS	1.12	0.451	2.38	3.81	J	B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFOA	25.6	0.310	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFOS	9.21	0.384	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFNA	196	1.93	11.9	19.0	D	B7L0125	18-Dec-17	0.263 L	12-Jan-18 07:33	5
PFDA	49.5	0.709	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
MeFOSAA	ND	0.786	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFUnA	1640	2.50	11.9	19.0	D	B7L0125	18-Dec-17	0.263 L	12-Jan-18 07:33	5
EtFOSAA	ND	0.652	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFDaA	2.21	0.377	2.38	3.81	J	B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFTTrDA	4.38	0.235	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1
PFTeDA	ND	0.359	2.38	3.81		B7L0125	18-Dec-17	0.263 L	29-Dec-17 20:38	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	129	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C2-PFHxA	IS	114	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C4-PFHpA	IS	115	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
18O2-PFHxS	IS	113	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C2-PFOA	IS	98.8	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C8-PFOS	IS	113	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C5-PFNA	IS	136	50 - 150	D	B7L0125	18-Dec-17	0.263 L	12-Jan-18 07:33	5	
13C2-PFDA	IS	125	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
d3-MeFOSAA	IS	140	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C2-PFUnA	IS	97.6	50 - 150	D	B7L0125	18-Dec-17	0.263 L	12-Jan-18 07:33	5	
d5-EtFOSAA	IS	137	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C2-PFDaA	IS	115	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 09:54	1	
13C2-PFTeDA	IS	119	50 - 150		B7L0125	18-Dec-17	0.263 L	29-Dec-17 20:38	1	

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P2-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-03	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 08:54	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.825	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFHxA	21.5	1.01	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFHpA	9.70	0.272	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFHxS	1.13	0.437	2.31	3.69	J	B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFOA	28.1	0.300	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFOS	8.20	0.372	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFNA	211	1.87	11.5	18.4	D	B7L0125	18-Dec-17	0.271 L	12-Jan-18 07:44	5
PFDA	49.4	0.687	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
MeFOSAA	ND	0.761	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFUnA	1410	2.42	11.5	18.4	D	B7L0125	18-Dec-17	0.271 L	12-Jan-18 07:44	5
EtFOSAA	ND	0.632	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFDaA	2.47	0.365	2.31	3.69	J	B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFTTrDA	3.75	0.228	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
PFTeDA	ND	0.348	2.31	3.69		B7L0125	18-Dec-17	0.271 L	29-Dec-17 20:49	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	124	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C2-PFHxA	IS	115	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C4-PFHpA	IS	113	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
18O2-PFHxS	IS	110	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C2-PFOA	IS	97.7	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C8-PFOS	IS	121	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C5-PFNA	IS	116	50 - 150		D	B7L0125	18-Dec-17	0.271 L	12-Jan-18 07:44	5
13C2-PFDA	IS	133	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
d3-MeFOSAA	IS	127	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C2-PFUnA	IS	101	50 - 150		D	B7L0125	18-Dec-17	0.271 L	12-Jan-18 07:44	5
d5-EtFOSAA	IS	121	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C2-PFDaA	IS	102	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:05	1
13C2-PFTeDA	IS	133	50 - 150			B7L0125	18-Dec-17	0.271 L	29-Dec-17 20:49	1

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-P3-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-04	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 09:10	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.834	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFHxA	21.7	1.02	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFHpA	8.92	0.275	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFHxS	0.950	0.441	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFOA	25.1	0.303	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFOS	7.53	0.376	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFNA	251	1.89	11.7	18.6	D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:56	5
PFDA	55.2	0.694	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
MeFOSAA	ND	0.769	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFUnA	1330	2.45	11.7	18.6	D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:56	5
EtFOSAA	ND	0.638	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFDaA	2.02	0.369	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFTTrDA	2.74	0.230	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
PFTeDA	ND	0.352	2.33	3.73		B7L0125	18-Dec-17	0.268 L	29-Dec-17 21:00	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	117	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C2-PFHxA	IS	105	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C4-PFHpA	IS	113	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
18O2-PFHxS	IS	117	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C2-PFOA	IS	102	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C8-PFOS	IS	129	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C5-PFNA	IS	91.4	50 - 150		D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:56	5
13C2-PFDA	IS	145	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
d3-MeFOSAA	IS	142	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C2-PFUnA	IS	83.9	50 - 150		D	B7L0125	18-Dec-17	0.268 L	12-Jan-18 07:56	5
d5-EtFOSAA	IS	131	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C2-PFDaA	IS	109	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:17	1
13C2-PFTeDA	IS	153	50 - 150		H	B7L0125	18-Dec-17	0.268 L	29-Dec-17 21:00	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02SR1-FRB-20171128						Modified EPA Method 537				
Client Data Name: Tetra Tech Matrix: QC Water Project: 112G08005-WE05 Date Collected: 28-Nov-17 09:00 SDG: WE05						Laboratory Data Lab Sample: 1701802-05 Column: BEH C18 Date Received: 29-Nov-17 09:37				
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.826	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFHxA	ND	1.01	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFHpA	ND	0.273	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFHxS	ND	0.437	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFOA	ND	0.300	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFOS	ND	0.373	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFNA	ND	0.374	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFDA	ND	0.688	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
MeFOSAA	ND	0.762	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFUnA	ND	0.485	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
EtFOSAA	ND	0.632	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFDaA	ND	0.366	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFTTrDA	ND	0.228	2.31	3.69		B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
PFTeDA	ND	0.349	2.31	3.69		B7L0125	18-Dec-17	0.271 L	29-Dec-17 21:11	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	130	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFHxA	IS	122	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C4-PFHpA	IS	119	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
18O2-PFHxS	IS	115	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFOA	IS	90.2	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C8-PFOS	IS	98.5	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C5-PFNA	IS	110	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFDA	IS	105	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
d3-MeFOSAA	IS	89.1	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFUnA	IS	80.5	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
d5-EtFOSAA	IS	106	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFDaA	IS	86.6	50 - 150			B7L0125	18-Dec-17	0.271 L	05-Jan-18 10:28	1
13C2-PFTeDA	IS	136	50 - 150			B7L0125	18-Dec-17	0.271 L	29-Dec-17 21:11	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-NP-20171128						Modified EPA Method 537				
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-06	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 09:50	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.834	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFHxA	4.53	1.02	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFHpA	3.41	0.275	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFHxS	1.33	0.441	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFOA	8.02	0.303	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFOS	30.3	0.376	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFNA	30.8	0.377	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFDA	0.951	0.694	2.33	3.73	J	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
MeFOSAA	ND	0.768	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFUnA	6.13	0.489	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
EtFOSAA	ND	0.638	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFDoA	ND	0.369	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFTrDA	ND	0.230	2.33	3.73		B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
PFTeDA	ND	0.352	2.33	3.73		B7L0125	18-Dec-17	0.268 L	29-Dec-17 21:22	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	115	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFHxA	IS	104	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C4-PFHpA	IS	121	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
18O2-PFHxS	IS	96.0	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFOA	IS	101	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C8-PFOS	IS	111	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C5-PFNA	IS	115	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFDA	IS	124	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
d3-MeFOSAA	IS	144	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFUnA	IS	125	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
d5-EtFOSAA	IS	154	50 - 150		H	B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFDoA	IS	109	50 - 150			B7L0125	18-Dec-17	0.268 L	05-Jan-18 10:39	1
13C2-PFTeDA	IS	133	50 - 150			B7L0125	18-Dec-17	0.268 L	29-Dec-17 21:22	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P1-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-07	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:17	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	1.15	0.831	2.32	3.71	J	B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFHxA	6.24	1.01	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFHpA	4.58	0.274	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFHxS	0.548	0.439	2.32	3.71	J	B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFOA	8.91	0.302	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFOS	21.8	0.374	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFNA	82.1	0.376	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFDA	2.05	0.691	2.32	3.71	J	B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
MeFOSAA	ND	0.766	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFUnA	20.6	0.487	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
EtFOSAA	ND	0.636	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFDaA	ND	0.368	2.32	3.71		B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFTTrDA	2.15	0.229	2.32	3.71	J	B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
PFTeDA	ND	0.350	2.32	3.71		B7L0125	18-Dec-17	0.269 L	29-Dec-17 21:33	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	136	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFHxA	IS	112	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C4-PFHpA	IS	114	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
18O2-PFHxS	IS	116	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFOA	IS	91.5	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C8-PFOS	IS	127	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C5-PFNA	IS	107	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFDA	IS	117	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
d3-MeFOSAA	IS	139	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFUnA	IS	110	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
d5-EtFOSAA	IS	114	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFDaA	IS	86.7	50 - 150			B7L0125	18-Dec-17	0.269 L	05-Jan-18 10:50	1
13C2-PFTeDA	IS	163	50 - 150		H	B7L0125	18-Dec-17	0.269 L	29-Dec-17 21:33	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P2-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-08	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:45	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.812	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFHxA	4.37	0.989	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFHpA	3.17	0.268	2.26	3.63	J	B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFHxS	1.25	0.430	2.26	3.63	J	B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFOA	7.98	0.295	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFOS	32.0	0.366	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFNA	28.5	0.368	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFDA	ND	0.676	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
MeFOSAA	ND	0.749	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFUnA	5.42	0.476	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
EtFOSAA	ND	0.622	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFDaA	ND	0.359	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFTTrDA	ND	0.224	2.26	3.63		B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
PFTeDA	ND	0.343	2.26	3.63		B7L0125	18-Dec-17	0.276 L	29-Dec-17 22:18	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	142	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFHxA	IS	115	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C4-PFHpA	IS	114	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
18O2-PFHxS	IS	104	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFOA	IS	95.2	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C8-PFOS	IS	118	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C5-PFNA	IS	112	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFDA	IS	130	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
d3-MeFOSAA	IS	103	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFUnA	IS	99.3	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
d5-EtFOSAA	IS	119	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFDaA	IS	78.2	50 - 150			B7L0125	18-Dec-17	0.276 L	05-Jan-18 11:02	1
13C2-PFTeDA	IS	157	50 - 150		H	B7L0125	18-Dec-17	0.276 L	29-Dec-17 22:18	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

Sample ID: FC-MW02IR1-P3-20171128					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1701802-09	Column:	BEH C18			
Project:	112G08005-WE05	Date Collected:	28-Nov-17 10:57	Date Received:	29-Nov-17 09:37					
SDG:	WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.852	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFHxA	4.66	1.04	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFHpA	3.48	0.281	2.38	3.81	J	B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFHxS	1.30	0.451	2.38	3.81	J	B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFOA	8.04	0.310	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFOS	33.0	0.384	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFNA	27.8	0.386	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFDA	ND	0.709	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
MeFOSAA	ND	0.786	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFUnA	6.66	0.500	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
EtFOSAA	ND	0.652	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFDoA	ND	0.377	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFTrDA	ND	0.235	2.38	3.81		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1
PFTeDA	ND	0.359	2.38	3.81		B7L0125	18-Dec-17	0.263 L	29-Dec-17 22:30	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBS	IS	121	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFHxA	IS	118	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C4-PFHpA	IS	114	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
18O2-PFHxS	IS	115	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFOA	IS	103	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C8-PFOS	IS	138	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C5-PFNA	IS	105	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFDA	IS	161	50 - 150	H	B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
d3-MeFOSAA	IS	102	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFUnA	IS	95.6	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
d5-EtFOSAA	IS	132	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFDoA	IS	78.3	50 - 150		B7L0125	18-Dec-17	0.263 L	05-Jan-18 11:13	1	
13C2-PFTeDA	IS	157	50 - 150	H	B7L0125	18-Dec-17	0.263 L	29-Dec-17 22:30	1	

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

Appendix C

Support Documentation



CHAIN OF CUSTODY

For Laboratory Use Only
Work Order #: 1701802 Temp: 0.7 °C
Storage ID: WR-2 Storage Secured: Yes ☒ No ☐

Project ID: 112G08005-WE05 PO#: _____ Sampler: Lauren Donston
(name)

TAT Standard: ☒ 21 days
(check one): Rush (surcharge may apply)
☐ 14 days ☐ 7 days Specify: _____

Invoice to: Name _____ Company Tetra Tech Address Suite 102 City Norfolk State VA Ph# _____ Fax# _____
5700 Lake Wright Dr.

Relinquished by (printed name and signature) _____ Date 11/28/17 Time 1545 Received by (printed name and signature) Jacob Birkett Date 11-28-17 Time 1545

Relinquished by (printed name and signature) FedEx Date 11/29/17 Time 0937 Received by (printed name and signature) B. Benedict Date 11/29/17 Time 1015

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 * Fax (916) 673-0106

ATTN: _____

Method of Shipment: FedEx
Tracking No.: _____

Add Analysis(es) Requested

Container(s)

Mod. EPA
Method 537

EPA Method
537(DW only)

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	PFOA/PFOS	UCMR3 PFAS List 6	337 List: 14	Full List of 28	Other: Please List Below	PFOA/PFOS	UCMR3 PFAS List 6	PFAS List: 14	Comments
FC-MW02SRI-NP-20171128	11/28/17	0803	uncertainty	2	P	GW		X							
FC-MW02SRI-PI-20171128	11/28/17	0840	analysis												
FC-MW02SRI-P2-20171128		0854													
FC-MW02SRI-P3-20171128		0910													
FC-MW02SRI-FRB-20171128		0900				QA									FRB
FC-MW02IRI-NP-20171128		0950				GW									
FC-MW02IRI-P1-20171128		1017													
FC-MW02IRI-P2-20171128		1045													
FC-MW02IRI-P3-20171128		1057													

Special Instructions/Comments: Extract FRB but only run sample if there is a positive detect in parent sample

SEND
DOCUMENTATION
AND RESULTS TO:

Name: Kristi Francisco
Company: Tetra Tech
Address: 5700 Lake Wright Dr. Suite 102
City: Norfolk State: VA Zip: 23502
Phone: 757-466-4902 Fax: _____
Email: kristi.franco@tetratech.com

Container Types: P= HDPE, PJ= HDPE Jar
O = Other: _____

Bottle Preservation Type: T = Thiosulfate,
TZ = Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: _____
GW = Groundwater QA = Quality Assurance



Sample Log-in Checklist

Vista Work Order #: 1701802 TAT Std

Samples Arrival:	Date/Time 11/29/17 0937	Initials: CBB	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 11/29/17 1719	Initials: CBB	Location: WR-2 Shelf/Rack: E7
Delivered By:	☒ FedEx ☐ UPS ☐ On Trac ☐ GSO ☐ DHL ☐ Hand Delivered ☐ Other		
Preservation:	☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None		
Temp °C: 0.7 (uncorrected)	Time: 1027	Thermometer ID: DT3 4R-1 CBB	
Temp °C: 0.7 (corrected)	Probe used: Yes ☒ No ☐		

		YES	NO	NA
Adequate Sample Volume Received?		✓		
Holding Time Acceptable?		✓		
Shipping Container(s) Intact?		✓		
Shipping Custody Seals Intact?		✓		
Shipping Documentation Present?		✓		
Airbill	Trk # 8102 9107 0422	✓		
Sample Container Intact?		✓		
Sample Custody Seals Intact?				✓
Chain of Custody / Sample Documentation Present?		✓		
COC Anomaly/Sample Acceptance Form completed?			✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓	✓
Preservation Documented:	Na ₂ S ₂ O ₃ ☐ Trizma ☐ None ☒	☒ Yes ☐ No ☐ NA		
Shipping Container	☒ Vista ☐ Client ☐ Retain ☐ Return ☐ Dispose			

Comments:

SDG Number WE05

Vista Work Order No. 1701802

Case Narrative

Sample Condition on Receipt:

Eight groundwater samples and one QC Water sample were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

Modified EPA Method 537

The following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
1701802-01	FC-MW02SR1-NP-20171128
1701802-02	FC-MW02SR1-P1-20171128
1701802-03	FC-MW02SR1-P2-20171128
1701802-04	FC-MW02SR1-P3-20171128
1701802-06	FC-MW02IR1-NP-20171128

The samples were extracted and analyzed for a selected list of PFAS using Modified EPA Method 537.

Holding Times

The samples were extracted and analyzed within the method hold times. The LCS was mis-spiked in the original extraction and the samples were re-extracted. The second extractions were performed outside of the hold time.

The following narrative describes the Quality Control associated with the re-extractions. As requested, the original data are also included in the report.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 of the LOQ concentrations. The LCS/LCSD recoveries were within the acceptance criteria.

The extracts were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injections. The results from the re-injections have been reported.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1701802-04	FC-MW02SR1-P3-20171128	Modified EPA Method 537	13C2-PFTeDA	H	153
1701802-06	FC-MW02IR1-NP-20171128	Modified EPA Method 537	d5-EtFOSAA	H	154
1701802-07	FC-MW02IR1-P1-20171128	Modified EPA Method 537	13C2-PFTeDA	H	163
1701802-08	FC-MW02IR1-P2-20171128	Modified EPA Method 537	13C2-PFTeDA	H	157
1701802-09	FC-MW02IR1-P3-20171128	Modified EPA Method 537	13C2-PFDA	H	161
1701802-09	FC-MW02IR1-P3-20171128	Modified EPA Method 537	13C2-PFTeDA	H	157
B7L0125-BLK1	B7L0125-BLK1	Modified EPA Method 537	13C2-PFDA	H	161

H = Recovery was outside laboratory acceptance criteria.

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1701802-01	FC-MW02SR1-NP-20171128	28-Nov-17 08:03	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-02	FC-MW02SR1-P1-20171128	28-Nov-17 08:40	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-03	FC-MW02SR1-P2-20171128	28-Nov-17 08:54	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-04	FC-MW02SR1-P3-20171128	28-Nov-17 09:10	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-05	FC-MW02SR1-FRB-20171128	28-Nov-17 09:00	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-06	FC-MW02IR1-NP-20171128	28-Nov-17 09:50	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-07	FC-MW02IR1-P1-20171128	28-Nov-17 10:17	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-08	FC-MW02IR1-P2-20171128	28-Nov-17 10:45	29-Nov-17 09:37	HDPE Bottle, 250 mL
1701802-09	FC-MW02IR1-P3-20171128	28-Nov-17 10:57	29-Nov-17 09:37	HDPE Bottle, 250 mL

Vista Project: 1701802

Client Project: 112G08005-WE05

Sample ID: Method Blank					Modified EPA Method 537					
Client Data					Laboratory Data					
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B7L0027-BLK1	Column:	BEH C18		
Project:	112G08005-WE05									
Analyte	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	ND	0.895	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFHxA	ND	1.09	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFHpA	ND	0.296	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFHxS	ND	0.474	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFOA	ND	0.326	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFOS	ND	0.404	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFNA	ND	0.405	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFDA	ND	0.745	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
MeFOSAA	ND	0.825	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFUnA	ND	0.525	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
EtFOSAA	ND	0.685	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFDaA	ND	0.396	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFTTrDA	ND	0.247	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
PFTeDA	ND	0.378	2.50	4.00		B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS	IS	82.3	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFHxA	IS	83.5	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C4-PFHpA	IS	77.7	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
18O2-PFHxS	IS	68.3	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFOA	IS	66.5	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C8-PFOS	IS	80.1	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C5-PFNA	IS	58.5	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFDA	IS	61.5	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
d3-MeFOSAA	IS	58.0	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFUnA	IS	66.3	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
d5-EtFOSAA	IS	61.5	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFDaA	IS	52.7	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1
13C2-PFTeDA	IS	54.6	50 - 150			B7L0027	06-Dec-17	0.250 L	15-Dec-17 17:51	1

DL - Detection Limit

 LOD - Limit of Detection
 LOQ - Limit of quantitation

 LCL-UCL- Lower control limit - upper control limit
 Results reported to the DL.

 When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
 Only the linear isomer is reported for all other analytes.

ORIGINAL ANALYSES

Sample ID: LCSD										Modified EPA Method 537					
Name: Tetra Tech Project: 112G08005-WE05 Matrix: Aqueous				Lab Sample: B7L0027-BS1/B7L0027-BSD1 QC Batch: B7L0027 Samp Size: 0.250/0.250 L				Date Extracted: 06-Dec-17 Column: BEH C18							
								used 30% for RPD limits							
Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	60.8	40.0	152	H	40.8	40.0	102	39.3		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFHxA	61.5	40.0	154	H	43.1	40.0	108	35.2		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFHpA	54.6	40.0	136	H	43.0	40.0	107	23.7		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFHxS	64.3	40.0	161	H	43.4	40.0	109	38.8		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFOA	63.7	40.0	159	H	46.0	40.0	115	32.2		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFOS	48.0	40.0	120		37.5	40.0	93.7	24.5		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFNA	46.1	40.0	115		45.8	40.0	115	0.613		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFDA	66.2	40.0	165	H	46.0	40.0	115	35.9		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
MeFOSAA	68.0	40.0	170	H	48.4	40.0	121	33.8		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFUnA	66.0	40.0	165	H	51.8	40.0	130	24.1		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
EtFOSAA	54.6	40.0	137	H	43.3	40.0	108	23.2		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFDoA	58.7	40.0	147	H	40.8	40.0	102	36.0		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFTTrDA	55.4	40.0	138	H	30.9	40.0	77.2	56.8		60-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
PFTeDA	55.6	40.0	139	H	33.3	40.0	83.2	50.2		70-130		15-Dec-17 17:17	1	15-Dec-17 17:29	1
Labeled Standards	Type		LCS % Rec	LCS Quals			LCSD % Rec		LCSD Quals	Limits		LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS		59.3				80.0			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFHxA	IS		52.7				76.2			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C4-PFHpA	IS		56.0				76.1			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
18O2-PFHxS	IS		56.7				74.9			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFOA	IS		54.5				79.6			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C8-PFOS	IS		61.1				76.7			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C5-PFNA	IS		46.4	H			77.5			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFDA	IS		46.4	H			56.2			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
d3-MeFOSAA	IS		37.1	H			51.5			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFUnA	IS		38.0	H			47.3		H	50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
d5-EtFOSAA	IS		41.8	H			53.1			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFDoA	IS		43.4	H			64.3			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1
13C2-PFTeDA	IS		37.5	H			68.5			50-150		15-Dec-17 17:17	1	15-Dec-17 17:29	1

REANALYSIS

Sample ID: Method Blank					Modified EPA Method 537					
Client Data Name: Tetra Tech										

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

LCL-UCL- Lower control limit - upper control limit
Results reported to the DL.

When reported, PFHxS, PFOA and PFOS include both linear and branched isomers.
Only the linear isomer is reported for all other analytes.

REANALYSIS

Sample ID: LCSD										Modified EPA Method 537					
Name: Tetra Tech Project: 112G08005-WE05 Matrix: Aqueous				Lab Sample: B7L0125-BS1/B7L0125-BSD1 QC Batch: B7L0125 Samp Size: 0.250/0.250 L				Date Extracted: 18-Dec-17 Column: BEH C18							
										used 30% for RPD limits					
Analyte	LCS (ng/L)	LCS Spike Amt	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike Amt	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBS	32.3	40.0	80.7		35.0	40.0	87.5	8.16		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFHxA	36.8	40.0	92.0		34.9	40.0	87.2	5.39		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFHpA	36.0	40.0	90.0		33.0	40.0	82.5	8.67		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFHxS	37.3	40.0	93.2		29.6	40.0	74.0	22.9		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFOA	33.9	40.0	84.7		30.0	40.0	75.0	12.2		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFOS	41.6	40.0	104		48.8	40.0	122	15.8		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFNA	29.4	40.0	73.5		31.0	40.0	77.5	5.31		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFDA	33.7	40.0	84.2		37.4	40.0	93.4	10.4		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
MeFOSAA	29.9	40.0	74.6		28.1	40.0	70.1	6.24		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFUnA	35.8	40.0	89.6		36.2	40.0	90.5	1.02		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
EtFOSAA	35.2	40.0	88.0		31.0	40.0	77.4	12.8		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFDoA	43.6	40.0	109		36.4	40.0	90.9	18.2		70-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFTTrDA	39.1	40.0	97.6		25.6	40.0	64.1	41.5		60-130		05-Jan-18 09:04	1	05-Jan-18 09:16	1
PFTeDA	29.8	40.0	74.5		38.4	40.0	95.9	25.2		70-130		29-Dec-17 16:20	1	29-Dec-17 16:31	1
Labeled Standards	Type		LCS % Rec	LCS Quals			LCSD % Rec		LCSD Quals	Limits		LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C3-PFBS	IS		122				139			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFHxA	IS		113				132			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C4-PFHpA	IS		95.5				134			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
18O2-PFHxS	IS		114				121			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFOA	IS		104				113			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C8-PFOS	IS		132				105			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C5-PFNA	IS		118				138			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFDA	IS		121				101			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
d3-MeFOSAA	IS		150				107			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFUnA	IS		118				87.3			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
d5-EtFOSAA	IS		128				113			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFDoA	IS		108				91.2			50-150		05-Jan-18 09:04	1	05-Jan-18 09:16	1
13C2-PFTeDA	IS		149				91.3			50-150		29-Dec-17 16:20	1	29-Dec-17 16:31	1

Process Sheet
Workorder: **1701802**

Prep Expiration: 2017-Dec-12
Client: Tetra Tech

Workorder Due: 20-Dec-17 00:00

TAT: 21

Method: 537M PFAS DOD (LOQ as mRL)
Matrix: Aqueous

Prep Batch: B7L0027

Version: 537 (14 Analyte)
DoD: DoD QSM 5.1

Prep Data Entered: 12-7-17 HZ
Date and Initials

Initial Sequence: 57LC052

LabSampID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701802-01	(A)	☒	☒	FC-MW02SR1-NP-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-02		☒	☒	FC-MW02SR1-P1-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-03		☒	☒	FC-MW02SR1-P2-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-04		☒	☒	FC-MW02SR1-P3-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-05		☒	☒	FC-MW02SR1-FRB-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-06		☒	☒	FC-MW02IR1-NP-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-07		☒	☒	FC-MW02IR1-P1-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-08		☒	☒	FC-MW02IR1-P2-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-09		☒	☒	FC-MW02IR1-P3-20171128		WR-2 E-7	HDPE Bottle, 250 mL

WO Comments: Provide all analytical runs.
MS/MSD per batch, if MS/MSD is not provided - LCS/LCSD.

Pre-Prep Check Out: 12/6/17 ST
Pre-Prep Check In: NA

Prep Check Out: NA
Prep Check In: NA

Prep Reconciled Initials/Date: 12/6/17 ST
Spike Reconciled Initials/Date: KC 12/6/17
VialBoxID: Garfield

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mRL)

B7L0027

Chemist: KC

Prep Date/Time: 06-Dec-17 18:27

KC
12/6/17

Prepared using: LCMS - SPE Extraction-LCMS

Date/Initials: 12/6/17 ST		Balance ID: HRMS-8									
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	B7L0027-BLK1	5	2	0	2	N/A	N/A	(0.250)	KC HN 12/6/17	KC 12/6/17	KC HN 12/6/17
☐	B7L0027-BS1	5	2	0	2	T	T	(0.250)	T	T	T
☐	B7L0027-BSD1	5	2	0	2	V	V	(0.250)	T	T	T
☒	1701802-01	6	2	0	6	287.12	27.76	0.25936			
☒	1701802-02	6	2	0	6	288.03	26.94	0.26109			
☒	1701802-03	6	2	0	6	291.69	26.94	0.26475			
☒	1701802-04	6	2	0	6	286.20	27.68	0.25852			
☐	1701802-05	5	2	0	2	289.22	27.72	0.26150			
☒	1701802-06	5	2	0	2	282.01	27.72	0.25429			
☐	1701802-07	5	2	0	2	289.39	27.42	0.26197			
☒	1701802-08	5	2	0	2	293.56	26.88	0.26668			
☒	1701802-09	5	2	0	2	284.89	27.63	0.25764			
☒	1701823-01	5	2	0	2	147.02	26.72	0.12030			
☒	1701823-02	6	2	0	3	148.92	26.85	0.12207			
☒	1701823-03	6	2	0	3	142.10	26.79	0.11531			
☒	1701823-04	5	2	0	2	141.52	26.81	0.11471			

IS: 17K0822, 10 µL (V1)
IS SUP: NA
NS: 17J1820, 10 µL (V2)
RS: 17K2502, 10 µL (V5)

SPE Chem: Strawn XAW 33 µm 200 mg
Ele SOLV: MeOH / 5% NH₄OH in MeOH
Final Volume(s) 1 mL

Notes: A 2x centrifuged 12/6/17 ST

Comments: Assume 1 g = 1 mL

Cen = Centrifuged
WORK ORD 1701802

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 537M PFAS DOD (LOQ as mL)

B7L0027

Chemist: KC

Prep Date/Time: 03-Dec-17 18:27

KC 1520
12/6/17

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: 12/6/17 ST				Balance ID: HRMS-8					
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☒	1701823-05	6	2	0	3	137.72	26.73	0.11099	KC HN 12/6/17	KC 12/6/17	KC HN 12/6/17
☐	1701823-06	5	2	0	2	144.42	26.90	0.11752	T	T	T
☐	1701823-07	5	2	0	2	143.33	26.77	0.11656	T	T	T
☐	1701823-08	5	2	0	2	143.73	26.83	0.11690	↓	↓	↓

IS: 17K0822, 10 µL (V1) IS SUP: NA NS: 1731820, 10 µL (V2) RS: 17K2502, 10 µL (V5)	SPE Chem: Strata-X-AW 33µm 200mg 6mL Ele SOLV: MeOH / 5% NH ₄ OH in MeOH Final Volume(s) 1mL	Notes:
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Comments: Assume 1 g = 1 mL

Cen = Centrifuge 1701802

Batch: B7L0027

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701802-01	0.25936 ✓	NA	NA	1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-02	0.26109 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-03	0.26475 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-04	0.25852 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-05	0.2615 ✓			1000	06-Dec-17 15:20	KC			QC Water	537M PFAS DOD (LOQ as
1701802-06	0.25429 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-07	0.26197 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-08	0.26668 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701802-09	0.25726 ✓			1000	06-Dec-17 15:20	KC			Groundwater	537M PFAS DOD (LOQ as
1701823-01	0.1203 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-02	0.12207 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-03	0.11531 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-04	0.11471 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-05	0.11099 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-06	0.11752 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-07	0.11656 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
1701823-08	0.1169 ✓			1000	06-Dec-17 15:20	KC			Aqueous	537M PFAS DOD (LOQ as
B7L0027-BLK1	0.25			1000	06-Dec-17 15:20	KC				QC
B7L0027-BS1	0.25			1000	06-Dec-17 15:20	KC	17J1820	10		QC
B7L0027-BSD1	0.25			1000	06-Dec-17 15:20	KC	17J1820	10		QC

Hz
12.7.17

Process Sheet
Workorder: **1701802**

RX

Prep Expiration: 2017-Dec-12
Client: Tetra Tech

Workorder Due: 20-Dec-17 00:00

TAT: 21

Method: **537M PFAS DOD (LOQ as mRL)**
Matrix: **Aqueous**

Prep Batch: 8710125

Prep Data Entered: GRB 12/19/17
Date and Initials

Version: 537 (14 Analyte)
DoD: DoD QSM 5.1

Initial Sequence: 57L0095

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Comments	Location	Container
1701802-01	6	☒	☒	FC-MW02SR1-NP-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-02		☒	☒	FC-MW02SR1-P1-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-03		☒	☒	FC-MW02SR1-P2-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-04		☒	☒	FC-MW02SR1-P3-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-05		☒	☒	FC-MW02SR1-FRB-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-06		☒	☒	FC-MW02IR1-NP-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-07		☒	☒	FC-MW02IR1-P1-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-08		☒	☒	FC-MW02IR1-P2-20171128		WR-2 E-7	HDPE Bottle, 250 mL
1701802-09		☒	☒	FC-MW02IR1-P3-20171128		WR-2 E-7	HDPE Bottle, 250 mL

WO Comments: **Provide all analytical runs.**
MS/MSD per batch, if MS/MSD is not provided - LCS/LCSD.

Pre-Prep Check Out: HC 12-18-17 Prep Check Out: NA
Pre-Prep Check In: NA Prep Check In: NA

Prep Reconciled Initials/Date: HC 12-18-17
Spike Reconciled Initials/Date: GRB 12-18-17
VialBoxID: CHRL

Matrix: Aqueous
Method: 537M PFAS DOD (LOQ as mRL)

PREPARATION BENCH SHEET

B7L0125

Chemist: 7H

Prep Date/Time: 18-Dec-17 11:04

1715

7H

Prepared using: LCMS - SPE Extraction-LCMS

		Date/Initials: <u>HB 12/18/17</u>			Balance ID: <u>HLM1-8</u>						
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	RS CHEM/WIT DATE
☐	B7L0125-BLK1	5	2	0	3	NA	NA	(0.250) ✓	7H GRB 12-18-17	GRB 12-18-17	7H GRB 12-18-17
☐	B7L0125-BS1	5	2	0	3	↓	↓	(0.250) ✓	↓	↓	↓
☐	B7L0125-BSD1	5	2	0	3	↓	↓	(0.250) ✓	↓	↓	↓
☒	1701802-01RE1	6	2	0	4	295.66	27.55	0.26811 ✓	↓	↓	↓
☒	1701802-02RE1	6	2	0	3	289.97	27.45	0.26252 ✓	↓	↓	↓
☒	1701802-03RE1	6	2	0	4	298.07	26.96	0.27111 ✓	↓	↓	↓
☒	1701802-04RE1	6	2	0	3	296.00	27.67	0.26833 ✓	↓	↓	↓
☐	1701802-05RE1	4	2	0	3	298.29	27.49	0.27080 ✓	↓	↓	↓
☒	1701802-06RE1	4	2	0	3	296.08	27.70	0.26838 ✓	↓	↓	↓
☐	1701802-07RE1	4	2	0	3	297.05	27.67	0.26938 ✓	↓	↓	↓
☐	1701802-08RE1	6	2	6	3	303.12	27.62	0.27550 ✓	↓	↓	↓
☐	1701802-09RE1	5	2	0	3	290.19	27.67	0.26252 ✓	↓	↓	↓

IS: <u>17L0402, 10µl (V4)</u>	SPE Chem: <u>X-AW 33µm 200µm 6mL</u> Ele SOLV: <u>0.5% NH4OH in MeOH/MeOH</u> Final Volume(s) <u>1mL</u>	Notes:
IS SUP: <u>NA</u>		
NS: <u>17J1870, 10µl (V1)</u>		
RS: <u>17K2502, 10µl (V2)</u>		

Comments: Assume 1 g = 1 mL
Cen = Centrifuged

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1701802-01RE1	0.26811 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-02RE1	0.26252 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-03RE1	0.27111 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-04RE1	0.26833 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-05RE1	0.2708 \			1000	18-Dec-17 17:15	HAC			QC Water	537M PFAS DOD (LOQ as
1701802-06RE1	0.26838 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-07RE1	0.26938 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-08RE1	0.2755 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
1701802-09RE1	0.26252 \			1000	18-Dec-17 17:15	HAC			Groundwater	537M PFAS DOD (LOQ as
B7L0125-BLK1	0.25			1000	18-Dec-17 17:15	HAC				QC
B7L0125-BS1	0.25			1000	18-Dec-17 17:15	HAC	17J1820 \	10 \		QC
B7L0125-BSD1	0.25			1000	18-Dec-17 17:15	HAC	17J1820 \	10 \		QC

GRB 12/19/17

Dataset: U:\Q4.PRO\results\171214M1\171214M1-CRV.qld

Last Altered: Friday, December 15, 2017 10:09:26 Pacific Standard Time

Printed: Friday, December 15, 2017 10:19:36 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 14 Dec 2017 08:34:51

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Compound name: PFBA

Correlation coefficient: $r = 0.999759$, $r^2 = 0.999518$ Calibration curve: $1.0818 * x + -0.0828057$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

AC
12/15/17
r² 12/15/2017

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	1.39	104.864	10350.293	0.127	0.2	-22.6	NO	1.000	NO	bb
2	2 171214M1_3	Standard	0.500	1.39	361.395	12139.206	0.372	0.4	-15.9	NO	1.000	NO	MM
3	3 171214M1_4	Standard	1.000	1.40	905.405	10945.042	1.034	1.0	3.2	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	1.39	1876.567	10899.879	2.152	2.1	3.3	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	1.39	4612.751	10705.287	5.386	5.1	1.1	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	1.38	9336.264	10881.714	10.725	10.0	-0.1	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	1.39	48653.594	10964.734	55.466	51.3	2.7	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	1.37	93346.219	11141.793	104.725	96.9	-3.1	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	1.37	235729.516	10822.411	272.270	251.8	0.7	NO	1.000	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.999581$, $r^2 = 0.999163$ Calibration curve: $0.914829 * x + 0.00697971$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	2.33	285.999	14965.871	0.239	0.3	1.4	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	2.34	551.839	16483.803	0.418	0.4	-10.0	NO	0.999	NO	bb
3	3 171214M1_4	Standard	1.000	2.35	1135.147	14992.419	0.946	1.0	2.7	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	2.34	2194.702	15135.859	1.813	2.0	-1.3	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	2.34	5446.351	14451.099	4.711	5.1	2.8	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	2.33	11234.518	15576.157	9.016	9.8	-1.5	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	2.34	56545.012	14379.886	49.153	53.7	7.4	NO	0.999	NO	bb
8	8 171214M1_9	Standard	100.000	2.33	109313.688	14940.075	91.460	100.0	-0.0	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	2.34	266348.031	14771.427	225.391	246.4	-1.5	NO	0.999	NO	bb

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Compound name: PFBS

Correlation coefficient: $r = 0.999502$, $r^2 = 0.999004$

Calibration curve: $2.03588 * x + -0.0227612$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	2.62	81.286	1732.369	0.587	0.3	19.7	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	2.61	120.973	2001.570	0.755	0.4	-23.5	NO	0.999	NO	bb
3	3 171214M1_4	Standard	1.000	2.62	298.013	1806.731	2.062	1.0	2.4	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	2.61	620.308	1789.857	4.332	2.1	7.0	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	2.62	1421.801	1672.444	10.627	5.2	4.6	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	2.61	2840.545	1865.707	19.031	9.4	-6.4	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	2.61	14409.229	1799.017	100.119	49.2	-1.6	NO	0.999	NO	bb
8	8 171214M1_9	Standard	100.000	2.61	28156.928	1805.515	194.937	95.8	-4.2	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	2.62	70667.727	1699.162	519.872	255.4	2.1	NO	0.999	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999800$, $r^2 = 0.999600$

Calibration curve: $1.45431 * x + 0.00389471$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	3.11	442.770	5801.274	0.382	0.3	3.9	NO	1.000	NO	bb
2	2 171214M1_3	Standard	0.500	3.11	755.803	5516.994	0.685	0.5	-6.3	NO	1.000	NO	bb
3	3 171214M1_4	Standard	1.000	3.11	1551.089	5454.500	1.422	1.0	-2.5	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	3.11	3138.781	5244.799	2.992	2.1	2.7	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	3.12	7663.084	5137.172	7.458	5.1	2.5	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	3.11	15308.898	5067.938	15.104	10.4	3.8	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	3.11	70604.703	5112.571	69.050	47.5	-5.0	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	3.11	137968.703	4735.036	145.689	100.2	0.2	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	3.11	340284.188	4645.557	366.247	251.8	0.7	NO	1.000	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999493$, $r^2 = 0.998987$

Calibration curve: $1.33555 * x + -0.0368737$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	3.73	310.816	10477.311	0.371	0.3	22.1	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	3.74	483.395	10821.061	0.558	0.4	-10.9	NO	0.999	NO	bb
3	3 171214M1_4	Standard	1.000	3.74	1069.417	10946.202	1.221	0.9	-5.8	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	3.74	2195.849	10007.636	2.743	2.1	4.1	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	3.74	4853.828	8800.215	6.894	5.2	3.8	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	3.74	9495.143	10480.673	11.325	8.5	-14.9	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	3.74	54108.770	9793.917	69.059	51.7	3.5	NO	0.999	NO	bd
8	8 171214M1_9	Standard	100.000	3.74	99432.148	9575.192	129.804	97.2	-2.8	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	3.74	239847.609	8897.692	336.952	252.3	0.9	NO	0.999	NO	bb

Compound name: L-PFHxS

Correlation coefficient: $r = 0.998563$, $r^2 = 0.997129$

Calibration curve: $1.94134 * x + -0.101735$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	3.89	58.510	1566.445	0.467	0.3	17.2	NO	0.997	NO	MM
2	2 171214M1_3	Standard	0.500	3.89	99.971	1661.361	0.752	0.4	-12.0	NO	0.997	NO	MM
3	3 171214M1_4	Standard	1.000	3.89	223.786	1507.433	1.856	1.0	0.8	NO	0.997	NO	MM
4	4 171214M1_5	Standard	2.000	3.89	415.340	1606.780	3.231	1.7	-14.2	NO	0.997	NO	MM
5	5 171214M1_6	Standard	5.000	3.89	1168.852	1340.292	10.901	5.7	13.4	NO	0.997	NO	MM
6	6 171214M1_7	Standard	10.000	3.89	2364.383	1620.044	18.243	9.4	-5.5	NO	0.997	NO	MM
7	7 171214M1_8	Standard	50.000	3.89	12119.610	1466.417	103.310	53.3	6.5	NO	0.997	NO	MM
8	8 171214M1_9	Standard	100.000	3.89	22327.389	1567.889	178.005	91.7	-8.3	NO	0.997	NO	MM
9	9 171214M1_10	Standard	250.000	3.89	57975.898	1463.289	495.253	255.2	2.1	NO	0.997	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.997496$

Calibration curve: $-0.00479909 * x^2 + 1.09855 * x + -0.0351405$

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.21	61.261	3044.412	0.252	0.3	4.5	NO	0.997	NO	MM
2	2 171214M1_3	Standard	0.500	4.21	126.927	3901.505	0.407	0.4	-19.4	NO	0.997	NO	bb
3	3 171214M1_4	Standard	1.000	4.21	313.580	3585.504	1.093	1.0	3.2	NO	0.997	NO	bb
4	4 171214M1_5	Standard	2.000	4.21	567.194	3382.968	2.096	2.0	-2.2	NO	0.997	NO	bb
5	5 171214M1_6	Standard	5.000	4.21	1381.420	2879.917	5.996	5.6	12.6	NO	0.997	NO	bb
6	6 171214M1_7	Standard	10.000	4.21	2748.355	3130.159	10.975	10.5	5.0	NO	0.997	NO	bb
7	7 171214M1_8	Standard	50.000	4.21	13202.732	4030.594	40.945	46.9	-6.2	NO	0.997	NO	bb
8	8 171214M1_9	Standard	100.000	4.21	24227.453	4828.424	62.721	109.7	9.7	NO	0.997	NO	bb
9	9 171214M1_10	Standard	250.000	4.21	52099.918	5546.584	117.414			NO	0.997	NO	bbXI

Compound name: L-PFOA

Correlation coefficient: $r = 0.999648$, $r^2 = 0.999296$

Calibration curve: $0.907083 * x + 0.230983$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.26	473.111	14986.196	0.395	0.2	-27.8	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	4.27	820.298	15402.777	0.666	0.5	-4.1	NO	0.999	NO	bb
3	3 171214M1_4	Standard	1.000	4.26	1506.979	14995.602	1.256	1.1	13.0	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	4.26	2373.688	15261.349	1.944	1.9	-5.6	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	4.26	5304.995	12066.109	5.496	5.8	16.1	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	4.26	11416.535	14377.668	9.926	10.7	6.9	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	4.26	49870.926	13305.151	46.853	51.4	2.8	NO	0.999	NO	bb
8	8 171214M1_9	Standard	100.000	4.26	105274.922	14493.521	90.795	99.8	-0.2	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	4.26	239423.672	13325.603	224.590	247.3	-1.1	NO	0.999	NO	bb

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.999578$

Calibration curve: $-8.32594e-005 * x^2 + 0.253188 * x + -0.0324331$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.37	42.365	14986.196	0.035	0.3	7.1	NO	1.000	NO	MM
2	2 171214M1_3	Standard	0.500	4.38	98.341	15402.777	0.080	0.4	-11.3	NO	1.000	NO	bb
3	3 171214M1_4	Standard	1.000	4.38	264.847	14995.602	0.221	1.0	0.0	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	4.37	562.826	15261.349	0.461	2.0	-2.5	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	4.38	1355.382	12066.109	1.404	5.7	13.7	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	4.37	2665.442	14377.668	2.317	9.3	-6.9	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	4.38	13153.925	13305.151	12.358	49.8	-0.5	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	4.38	28486.270	14493.521	24.568	100.5	0.5	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	4.38	61863.902	13325.603	58.031	249.9	-0.1	NO	1.000	NO	bb

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999488$

Calibration curve: $-0.000394103 * x^2 + 1.24572 * x + 0.0902825$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.70	367.565	11793.092	0.390	0.2	-3.9	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	4.70	616.766	13213.367	0.583	0.4	-20.8	NO	0.999	NO	bb
3	3 171214M1_4	Standard	1.000	4.70	1359.018	11998.833	1.416	1.1	6.4	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	4.70	2822.215	13621.118	2.590	2.0	0.4	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	4.70	6234.993	10857.693	7.178	5.7	14.0	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	4.70	11774.295	11081.860	13.281	10.6	6.2	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	4.70	61860.273	12774.957	60.529	49.3	-1.4	NO	0.999	NO	bb
8	8 171214M1_9	Standard	100.000	4.70	130627.828	13686.861	119.300	98.8	-1.2	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	4.70	279893.188	12165.873	287.580	250.7	0.3	NO	0.999	NO	bb

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Compound name: PFOSACorrelation coefficient: $r = 0.999877$, $r^2 = 0.999754$ Calibration curve: $0.973756 * x + -0.220598$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.76	100.037	5569.955	0.225	0.5	82.8	NO	1.000	NO	bbX
2	2 171214M1_3	Standard	0.500	4.76	131.942	5358.861	0.308	0.5	8.5	NO	1.000	NO	bb
3	3 171214M1_4	Standard	1.000	4.76	375.114	5329.179	0.880	1.1	13.0	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	4.76	652.904	5726.573	1.425	1.7	-15.5	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	4.76	1805.602	4991.189	4.522	4.9	-2.6	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	4.76	4101.357	5517.671	9.291	9.8	-2.3	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	4.76	19851.156	5185.822	47.850	49.4	-1.3	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	4.76	34691.250	4486.936	96.645	99.5	-0.5	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	4.76	84405.141	4309.351	244.831	251.7	0.7	NO	1.000	NO	bb

Compound name: L-PFOSCoefficient of Determination: $R^2 = 0.998216$ Calibration curve: $-0.000533556 * x^2 + 1.15251 * x + -0.226229$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	4.78	104.925	3961.886	0.331	0.5	93.5	NO	0.998	NO	MMX
2	2 171214M1_3	Standard	0.500	4.78	112.787	4202.965	0.335	0.5	-2.5	NO	0.998	NO	MM
3	3 171214M1_4	Standard	1.000	4.79	285.935	3824.074	0.935	1.0	0.8	NO	0.998	NO	MM
4	4 171214M1_5	Standard	2.000	4.79	629.908	4171.431	1.888	1.8	-8.2	NO	0.998	NO	MM
5	5 171214M1_6	Standard	5.000	4.79	1373.364	3971.090	4.323	4.0	-20.9	NO	0.998	NO	MM
6	6 171214M1_7	Standard	10.000	4.78	3244.143	4199.015	9.657	8.6	-13.9	NO	0.998	NO	MM
7	7 171214M1_8	Standard	50.000	4.78	15669.080	3344.345	58.566	52.3	4.6	NO	0.998	NO	MM
8	8 171214M1_9	Standard	100.000	4.79	33190.766	3731.729	111.178	101.4	1.4	NO	0.998	NO	MM
9	9 171214M1_10	Standard	250.000	4.79	79677.297	3928.141	253.546	248.9	-0.5	NO	0.998	NO	MM

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Compound name: PFDA

Coefficient of Determination: $R^2 = 0.998825$

Calibration curve: $-0.000357197 * x^2 + 1.11476 * x + 0.00619633$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.08	279.918	13277.271	0.264	0.2	-7.7	NO	0.999	NO	bb
2	2 171214M1_3	Standard	0.500	5.08	712.803	13755.711	0.648	0.6	15.1	NO	0.999	NO	MM
3	3 171214M1_4	Standard	1.000	5.08	1340.316	13960.345	1.200	1.1	7.1	NO	0.999	NO	bb
4	4 171214M1_5	Standard	2.000	5.08	2588.029	16462.906	1.965	1.8	-12.1	NO	0.999	NO	bb
5	5 171214M1_6	Standard	5.000	5.08	5368.772	12586.205	5.332	4.8	-4.3	NO	0.999	NO	bb
6	6 171214M1_7	Standard	10.000	5.07	12604.423	14401.109	10.940	9.8	-1.6	NO	0.999	NO	bb
7	7 171214M1_8	Standard	50.000	5.07	65092.859	13882.683	58.610	53.5	7.0	NO	0.999	NO	bb
8	8 171214M1_9	Standard	100.000	5.08	115285.211	13885.411	103.783	96.0	-4.0	NO	0.999	NO	bb
9	9 171214M1_10	Standard	250.000	5.08	290101.375	14094.339	257.285	251.0	0.4	NO	0.999	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.991317$

Calibration curve: $-0.00821804 * x^2 + 2.14324 * x + -0.115977$

Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.05	101.624	2556.902	0.497	0.3	14.5	NO	0.991	NO	MM
2	2 171214M1_3	Standard	0.500	5.05	133.216	1847.024	0.902	0.5	-4.9	NO	0.991	NO	MM
3	3 171214M1_4	Standard	1.000	5.05	316.901	1938.918	2.043	1.0	1.1	NO	0.991	NO	bb
4	4 171214M1_5	Standard	2.000	5.05	577.311	1981.295	3.642	1.8	-11.7	NO	0.991	NO	bb
5	5 171214M1_6	Standard	5.000	5.05	1377.649	1909.692	9.017	4.3	-13.3	NO	0.991	NO	bb
6	6 171214M1_7	Standard	10.000	5.05	2599.767	1869.104	17.386	8.4	-15.6	NO	0.991	NO	bb
7	7 171214M1_8	Standard	50.000	5.05	14428.277	1886.844	95.585	57.2	14.4	NO	0.991	NO	bb
8	8 171214M1_9	Standard	100.000	5.05	25832.215	2525.145	127.875	92.6	-7.4	NO	0.991	NO	bb
9	9 171214M1_10	Standard	250.000	5.05	55506.691	3228.416	214.915			NO	0.991	NO	bbXI

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Compound name: N-MeFOSAA

Correlation coefficient: $r = 0.998470$, $r^2 = 0.996942$

Calibration curve: $1.40841 * x + 0.0325504$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.23	154.140	5837.595	0.330	0.2	-15.5	NO	0.997	NO	bb
2	2 171214M1_3	Standard	0.500	5.23	318.216	5713.971	0.696	0.5	-5.8	NO	0.997	NO	bb
3	3 171214M1_4	Standard	1.000	5.23	580.630	5041.176	1.440	1.0	-0.1	NO	0.997	NO	bb
4	4 171214M1_5	Standard	2.000	5.23	1365.717	6137.867	2.781	2.0	-2.4	NO	0.997	NO	bb
5	5 171214M1_6	Standard	5.000	5.23	3378.281	5912.463	7.142	5.0	1.0	NO	0.997	NO	bb
6	6 171214M1_7	Standard	10.000	5.23	7136.570	5614.341	15.889	11.3	12.6	NO	0.997	NO	bb
7	7 171214M1_8	Standard	50.000	5.23	32967.500	5253.872	78.436	55.7	11.3	NO	0.997	NO	bb
8	8 171214M1_9	Standard	100.000	5.23	64139.754	5539.945	144.721	102.7	2.7	NO	0.997	NO	bb
9	9 171214M1_10	Standard	250.000	5.23	145714.766	5378.832	338.630	240.4	-3.8	NO	0.997	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.996594$

Calibration curve: $-0.000405922 * x^2 + 1.0721 * x + -0.0405007$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.39	91.989	5927.860	0.194	0.2	-12.5	NO	0.997	NO	bb
2	2 171214M1_3	Standard	0.500	5.39	231.590	5663.546	0.511	0.5	2.9	NO	0.997	NO	bb
3	3 171214M1_4	Standard	1.000	5.38	508.056	5358.711	1.185	1.1	14.4	NO	0.997	NO	bb
4	4 171214M1_5	Standard	2.000	5.39	1023.663	6340.133	2.018	1.9	-3.9	NO	0.997	NO	bb
5	5 171214M1_6	Standard	5.000	5.38	2237.589	5721.131	4.889	4.6	-7.9	NO	0.997	NO	bb
6	6 171214M1_7	Standard	10.000	5.38	4733.854	5883.145	10.058	9.5	-5.5	NO	0.997	NO	bb
7	7 171214M1_8	Standard	50.000	5.38	23357.893	6171.674	47.309	44.9	-10.1	NO	0.997	NO	bb
8	8 171214M1_9	Standard	100.000	5.38	45693.789	5116.703	111.629	108.6	8.6	NO	0.997	NO	bb
9	9 171214M1_10	Standard	250.000	5.38	100013.133	5202.822	240.286	247.3	-1.1	NO	0.997	NO	bb

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Compound name: PFUDaCoefficient of Determination: $R^2 = 0.997973$ Calibration curve: $-0.00012509 * x^2 + 0.982717 * x + 0.0408293$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.40	346.806	14485.014	0.299	0.3	5.2	NO	0.998	NO	bd
2	2 171214M1_3	Standard	0.500	5.40	759.266	17026.895	0.557	0.5	5.1	NO	0.998	NO	bb
3	3 171214M1_4	Standard	1.000	5.40	1146.214	15036.768	0.953	0.9	-7.2	NO	0.998	NO	bb
4	4 171214M1_5	Standard	2.000	5.40	2741.548	15867.293	2.160	2.2	7.8	NO	0.998	NO	bb
5	5 171214M1_6	Standard	5.000	5.40	5060.304	12981.421	4.873	4.9	-1.6	NO	0.998	NO	bb
6	6 171214M1_7	Standard	10.000	5.40	10756.592	14691.471	9.152	9.3	-7.2	NO	0.998	NO	bb
7	7 171214M1_8	Standard	50.000	5.40	48044.609	13345.833	45.000	46.0	-8.0	NO	0.998	NO	bb
8	8 171214M1_9	Standard	100.000	5.40	112940.250	13670.872	103.267	106.5	6.5	NO	0.998	NO	bb
9	9 171214M1_10	Standard	250.000	5.40	236089.188	12493.014	236.221	248.2	-0.7	NO	0.998	NO	bb

Compound name: PFDSCoefficient of Determination: $R^2 = 0.997280$ Calibration curve: $1.98239e-005 * x^2 + 0.285574 * x + -0.0145816$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.45	68.457	14485.014	0.059	0.3	3.2	NO	0.997	NO	bb
2	2 171214M1_3	Standard	0.500	5.45	171.294	17026.895	0.126	0.5	-1.7	NO	0.997	NO	bb
3	3 171214M1_4	Standard	1.000	5.45	339.336	15036.768	0.282	1.0	3.9	NO	0.997	NO	bb
4	4 171214M1_5	Standard	2.000	5.45	647.915	15867.293	0.510	1.8	-8.1	NO	0.997	NO	bb
5	5 171214M1_6	Standard	5.000	5.45	1352.900	12981.421	1.303	4.6	-7.8	NO	0.997	NO	bb
6	6 171214M1_7	Standard	10.000	5.45	3563.003	14691.471	3.032	10.7	6.6	NO	0.997	NO	bb
7	7 171214M1_8	Standard	50.000	5.45	16859.236	13345.833	15.791	55.1	10.3	NO	0.997	NO	bb
8	8 171214M1_9	Standard	100.000	5.45	29212.006	13670.872	26.710	93.0	-7.0	NO	0.997	NO	bb
9	9 171214M1_10	Standard	250.000	5.45	73089.156	12493.014	73.130	251.7	0.7	NO	0.997	NO	bb

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.993353$

Calibration curve: $0.00833553 * x^2 + 1.98243 * x + 0.00705013$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.69	350.853	9386.053	0.467	0.2	-7.2	NO	0.993	NO	MM
2	2 171214M1_3	Standard	0.500	5.69	748.632	10756.433	0.870	0.4	-13.1	NO	0.993	NO	MM
3	3 171214M1_4	Standard	1.000	5.69	1432.992	9407.077	1.904	1.0	-4.7	NO	0.993	NO	MM
4	4 171214M1_5	Standard	2.000	5.69	2506.573	8348.009	3.753	1.9	-6.3	NO	0.993	NO	MM
5	5 171214M1_6	Standard	5.000	5.69	7436.000	8440.795	11.012	5.4	8.5	NO	0.993	NO	bb
6	6 171214M1_7	Standard	10.000	5.68	15357.814	7104.466	27.021	12.9	29.2	NO	0.993	NO	MM
7	7 171214M1_8	Standard	50.000	5.69	60493.723	7010.936	107.856	45.6	-8.7	NO	0.993	NO	MM
8	8 171214M1_9	Standard	100.000	5.69	143430.391	6247.226	286.988	101.5	1.5	NO	0.993	NO	bb
9	9 171214M1_10	Standard	250.000	5.69	288928.781	6963.103	518.678	157.4	-37.0	NO	0.993	NO	bbX

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.795002$, $r^2 = 0.632029$

Calibration curve: $75.9226 * x + -137.491$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	1.250	5.72	173.273					NO	0.632	NO	bb
2	2 171214M1_3	Standard	2.500	5.72	330.225					NO	0.632	NO	bb
3	3 171214M1_4	Standard	5.000	5.71	714.678					NO	0.632	NO	bb
4	4 171214M1_5	Standard	10.000	5.72	1507.211					NO	0.632	NO	bb
5	5 171214M1_6	Standard	25.000	5.71	3627.543					NO	0.632	NO	bb
6	6 171214M1_7	Standard	50.000	5.71	7387.397					NO	0.632	NO	bb
7	7 171214M1_8	Standard	250.000	5.71	34742.844	98.442	52939.057	699.1	179.6	NO	0.632	NO	bb
8	8 171214M1_9	Standard	500.000	5.72	64267.086	185.671	51920.132	685.7	37.1	NO	0.632	NO	bb
9	9 171214M1_10	Standard	1250.000	5.71	156788.172	444.862	52866.340	698.1	-44.1	NO	0.632	NO	bb

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Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.999614$

Calibration curve: $0.00572446 * x^2 + 2.07144 * x + -0.0691835$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	5.93	407.075	9386.053	0.542	0.3	17.9	NO	1.000	NO	MM
2	2 171214M1_3	Standard	0.500	5.94	687.485	10756.433	0.799	0.4	-16.3	NO	1.000	NO	MM
3	3 171214M1_4	Standard	1.000	5.93	1453.494	9407.077	1.931	1.0	-3.7	NO	1.000	NO	MM
4	4 171214M1_5	Standard	2.000	5.94	2697.203	8348.009	4.039	2.0	-1.4	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	5.94	6883.704	8440.795	10.194	4.9	-2.2	NO	1.000	NO	MM
6	6 171214M1_7	Standard	10.000	5.93	12892.164	7104.466	22.683	10.7	6.7	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	5.93	65085.020	7010.936	116.042	49.3	-1.3	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	5.94	132477.656	6247.226	265.073	100.2	0.2	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	5.93	263695.531	6963.103	473.380	158.8	-36.5	NO	1.000	NO	bbX

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.994454$

Calibration curve: $-0.00286076 * x^2 + 1.80315 * x + -0.442322$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	6.14	358.059	10504.209	0.426	0.5	92.8	NO	0.994	NO	bbX
2	2 171214M1_3	Standard	0.500	6.15	567.233	9892.584	0.717	0.6	28.7	NO	0.994	NO	MM
3	3 171214M1_4	Standard	1.000	6.14	1035.600	9116.818	1.420	1.0	3.4	NO	0.994	NO	bb
4	4 171214M1_5	Standard	2.000	6.14	1979.843	7596.246	3.258	2.1	2.9	NO	0.994	NO	bb
5	5 171214M1_6	Standard	5.000	6.14	4174.723	7139.130	7.310	4.3	-13.4	NO	0.994	NO	bb
6	6 171214M1_7	Standard	10.000	6.14	8655.139	8442.626	12.815	7.4	-25.6	NO	0.994	NO	bb
7	7 171214M1_8	Standard	50.000	6.15	42576.813	6598.706	80.654	48.7	-2.5	NO	0.994	NO	bb
8	8 171214M1_9	Standard	100.000	6.14	79532.320	6127.906	162.234	109.1	9.1	NO	0.994	NO	bb
9	9 171214M1_10	Standard	250.000	6.14	176012.906	8217.399	267.744	240.5	-3.8	NO	0.994	NO	bb

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.000000$

Calibration curve:

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	1.250	6.11	160.487					NO	0.000	NO	bb
2	2 171214M1_3	Standard	2.500	6.12	385.281					NO	0.000	NO	bb
3	3 171214M1_4	Standard	5.000	6.11	906.825					NO	0.000	NO	MM
4	4 171214M1_5	Standard	10.000	6.11	1921.830					NO	0.000	NO	bb
5	5 171214M1_6	Standard	25.000	6.11	4850.345					NO	0.000	NO	bb
6	6 171214M1_7	Standard	50.000	6.11	9812.187					NO	0.000	NO	bb
7	7 171214M1_8	Standard	250.000	6.11	46294.246					NO	0.000	NO	bb
8	8 171214M1_9	Standard	500.000	6.11	86959.375					NO	0.000	NO	bb
9	9 171214M1_10	Standard	1250.000	6.11	198718.734					NO	0.000	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999758$

Calibration curve: $-0.000328251 * x^2 + 0.583585 * x + -0.00620174$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	6.47	111.012	4884.689	0.114	0.2	-17.9	NO	1.000	NO	bb
2	2 171214M1_3	Standard	0.500	6.47	340.680	5206.968	0.327	0.6	14.3	NO	1.000	NO	bb
3	3 171214M1_4	Standard	1.000	6.47	489.654	4266.891	0.574	1.0	-0.6	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	6.47	1027.597	4046.595	1.270	2.2	9.5	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	6.47	2177.393	3772.003	2.886	5.0	-0.6	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	6.47	4657.435	4211.861	5.529	9.5	-4.6	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	6.47	22125.328	3950.334	28.004	49.4	-1.3	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	6.47	41381.285	3708.780	55.788	101.4	1.4	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	6.47	86552.758	3457.497	125.167	249.5	-0.2	NO	1.000	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.999680$

Calibration curve: $0.000275188 * x^2 + 0.663331 * x + 0.0131101$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	0.250	6.69	176.120	4884.689	0.180	0.3	0.8	NO	1.000	NO	MM
2	2 171214M1_3	Standard	0.500	6.70	350.387	5206.968	0.336	0.5	-2.5	NO	1.000	NO	bb
3	3 171214M1_4	Standard	1.000	6.69	568.260	4266.891	0.666	1.0	-1.6	NO	1.000	NO	bb
4	4 171214M1_5	Standard	2.000	6.69	1243.865	4046.595	1.537	2.3	14.8	NO	1.000	NO	bb
5	5 171214M1_6	Standard	5.000	6.69	2554.130	3772.003	3.386	5.1	1.5	NO	1.000	NO	bb
6	6 171214M1_7	Standard	10.000	6.69	5409.431	4211.861	6.422	9.6	-3.8	NO	1.000	NO	bb
7	7 171214M1_8	Standard	50.000	6.70	25956.525	3950.334	32.854	48.5	-2.9	NO	1.000	NO	bb
8	8 171214M1_9	Standard	100.000	6.69	52278.496	3708.780	70.479	101.9	1.9	NO	1.000	NO	bb
9	9 171214M1_10	Standard	250.000	6.69	126339.063	3457.497	182.703	249.6	-0.2	NO	1.000	NO	bb

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.127154$, $r^2 = 0.016168$

Calibration curve: $-0.909065 * x + 268.853$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	1.250	6.28	213.826	62.120	516.322			NO	0.016	NO	bbl
2	2 171214M1_3	Standard	2.500	6.28	431.489					NO	0.016	NO	bb
3	3 171214M1_4	Standard	5.000	6.28	738.462					NO	0.016	NO	bb
4	4 171214M1_5	Standard	10.000	6.28	1602.436					NO	0.016	NO	bb
5	5 171214M1_6	Standard	25.000	6.28	4236.398					NO	0.016	NO	bb
6	6 171214M1_7	Standard	50.000	6.28	8993.535					NO	0.016	NO	bb
7	7 171214M1_8	Standard	250.000	6.28	39151.840					NO	0.016	NO	bb
8	8 171214M1_9	Standard	500.000	6.28	76912.531					NO	0.016	NO	bb
9	9 171214M1_10	Standard	1250.000	6.28	211040.656					NO	0.016	NO	bb

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.000000$, $r^2 = 0.000000$

Calibration curve:

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	1.250	6.43	247.562					NO	0.000	NO	bb
2	2 171214M1_3	Standard	2.500	6.44	423.626					NO	0.000	NO	bb
3	3 171214M1_4	Standard	5.000	6.43	1060.968					NO	0.000	NO	bb
4	4 171214M1_5	Standard	10.000	6.43	2059.781					NO	0.000	NO	bb
5	5 171214M1_6	Standard	25.000	6.43	4293.327					NO	0.000	NO	bb
6	6 171214M1_7	Standard	50.000	6.43	9840.150					NO	0.000	NO	bb
7	7 171214M1_8	Standard	250.000	6.43	46574.273					NO	0.000	NO	bb
8	8 171214M1_9	Standard	500.000	6.43	93304.094					NO	0.000	NO	bd
9	9 171214M1_10	Standard	1250.000	6.43	202034.609					NO	0.000	NO	bb

Compound name: 13C3-PFBA

Response Factor: 1.05608

RRF SD: 0.0233108, Relative SD: 2.2073

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	1.39	10350.293	9805.063	13.195	12.5	-0.0	NO		NO	MM
2	2 171214M1_3	Standard	12.500	1.38	12139.206	11972.704	12.674	12.0	-4.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	1.40	10945.042	10277.052	13.312	12.6	0.8	NO		NO	bb
4	4 171214M1_5	Standard	12.500	1.39	10899.879	10268.646	13.268	12.6	0.5	NO		NO	bb
5	5 171214M1_6	Standard	12.500	1.39	10705.287	9828.214	13.616	12.9	3.1	NO		NO	bb
6	6 171214M1_7	Standard	12.500	1.38	10881.714	10600.053	12.832	12.2	-2.8	NO		NO	bb
7	7 171214M1_8	Standard	12.500	1.39	10964.734	10278.941	13.334	12.6	1.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	1.37	11141.793	10597.973	13.141	12.4	-0.5	NO		NO	bb
9	9 171214M1_10	Standard	12.500	1.37	10822.411	10068.471	13.436	12.7	1.8	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 1.04369

RRF SD: 0.066313, Relative SD: 6.35369

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	2.34	14965.871	14728.407	12.702	12.2	-2.6	NO		NO	bb
2	2 171214M1_3	Standard	12.500	2.34	16483.803	17274.086	11.928	11.4	-8.6	NO		NO	bb
3	3 171214M1_4	Standard	12.500	2.35	14992.419	15017.057	12.479	12.0	-4.3	NO		NO	bb
4	4 171214M1_5	Standard	12.500	2.34	15135.859	14394.754	13.144	12.6	0.7	NO		NO	bb
5	5 171214M1_6	Standard	12.500	2.34	14451.099	14670.499	12.313	11.8	-5.6	NO		NO	bb
6	6 171214M1_7	Standard	12.500	2.34	15576.157	14344.272	13.573	13.0	4.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	2.34	14379.886	13846.278	12.982	12.4	-0.5	NO		NO	bb
8	8 171214M1_9	Standard	12.500	2.34	14940.075	13710.247	13.621	13.1	4.4	NO		NO	bb
9	9 171214M1_10	Standard	12.500	2.34	14771.427	12583.750	14.673	14.1	12.5	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.124318

RRF SD: 0.00768344, Relative SD: 6.18049

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	2.61	1732.369	14728.407	1.470	11.8	-5.4	NO		NO	bb
2	2 171214M1_3	Standard	12.500	2.62	2001.570	17274.086	1.448	11.7	-6.8	NO		NO	bb
3	3 171214M1_4	Standard	12.500	2.62	1806.731	15017.057	1.504	12.1	-3.2	NO		NO	bb
4	4 171214M1_5	Standard	12.500	2.61	1789.857	14394.754	1.554	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	2.62	1672.444	14670.499	1.425	11.5	-8.3	NO		NO	bb
6	6 171214M1_7	Standard	12.500	2.61	1865.707	14344.272	1.626	13.1	4.6	NO		NO	bb
7	7 171214M1_8	Standard	12.500	2.62	1799.017	13846.278	1.624	13.1	4.5	NO		NO	bb
8	8 171214M1_9	Standard	12.500	2.61	1805.515	13710.247	1.646	13.2	5.9	NO		NO	bb
9	9 171214M1_10	Standard	12.500	2.61	1699.162	12583.750	1.688	13.6	8.6	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.896692

RRF SD: 0.0510569, Relative SD: 5.69392

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	5.000	3.11	5801.274	14728.407	4.924	5.5	9.8	NO		NO	bb
2	2 171214M1_3	Standard	5.000	3.11	5516.994	17274.086	3.992	4.5	-11.0	NO		NO	bb
3	3 171214M1_4	Standard	5.000	3.11	5454.500	15017.057	4.540	5.1	1.3	NO		NO	bb
4	4 171214M1_5	Standard	5.000	3.11	5244.799	14394.754	4.554	5.1	1.6	NO		NO	bb
5	5 171214M1_6	Standard	5.000	3.11	5137.172	14670.499	4.377	4.9	-2.4	NO		NO	bb
6	6 171214M1_7	Standard	5.000	3.11	5067.938	14344.272	4.416	4.9	-1.5	NO		NO	bb
7	7 171214M1_8	Standard	5.000	3.11	5112.571	13846.278	4.615	5.1	2.9	NO		NO	bb
8	8 171214M1_9	Standard	5.000	3.11	4735.036	13710.247	4.317	4.8	-3.7	NO		NO	bb
9	9 171214M1_10	Standard	5.000	3.11	4645.557	12583.750	4.615	5.1	2.9	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.689474

RRF SD: 0.0453838, Relative SD: 6.58238

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	3.74	10477.311	14728.407	8.892	12.9	3.2	NO		NO	bb
2	2 171214M1_3	Standard	12.500	3.74	10821.061	17274.086	7.830	11.4	-9.1	NO		NO	bb
3	3 171214M1_4	Standard	12.500	3.74	10946.202	15017.057	9.111	13.2	5.7	NO		NO	bb
4	4 171214M1_5	Standard	12.500	3.74	10007.636	14394.754	8.690	12.6	0.8	NO		NO	bb
5	5 171214M1_6	Standard	12.500	3.74	8800.215	14670.499	7.498	10.9	-13.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	3.74	10480.673	14344.272	9.133	13.2	6.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	3.74	9793.917	13846.278	8.842	12.8	2.6	NO		NO	bb
8	8 171214M1_9	Standard	12.500	3.74	9575.192	13710.247	8.730	12.7	1.3	NO		NO	bb
9	9 171214M1_10	Standard	12.500	3.74	8897.692	12583.750	8.838	12.8	2.6	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.530346

RRF SD: 0.0361403, Relative SD: 6.81448

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	3.89	1566.445	3056.209	6.407	12.1	-3.4	NO		NO	bb
2	2 171214M1_3	Standard	12.500	3.90	1661.361	3209.532	6.470	12.2	-2.4	NO		NO	bb
3	3 171214M1_4	Standard	12.500	3.89	1507.433	2695.082	6.992	13.2	5.5	NO		NO	bb
4	4 171214M1_5	Standard	12.500	3.89	1606.780	3252.028	6.176	11.6	-6.8	NO		NO	bb
5	5 171214M1_6	Standard	12.500	3.90	1340.292	2834.188	5.911	11.1	-10.8	NO		NO	bb
6	6 171214M1_7	Standard	12.500	3.89	1620.044	2796.386	7.242	13.7	9.2	NO		NO	bb
7	7 171214M1_8	Standard	12.500	3.89	1466.417	2840.536	6.453	12.2	-2.7	NO		NO	bb
8	8 171214M1_9	Standard	12.500	3.89	1567.889	2832.290	6.920	13.0	4.4	NO		NO	bb
9	9 171214M1_10	Standard	12.500	3.89	1463.289	2578.660	7.093	13.4	7.0	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.330603

RRF SD: 0.0639368, Relative SD: 19.3394

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.21	3044.412	10455.541	3.640	11.0	-11.9	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.21	3901.505	11401.075	4.278	12.9	3.5	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.21	3585.504	11289.436	3.970	12.0	-3.9	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.21	3382.968	11037.333	3.831	11.6	-7.3	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.21	2879.917	10950.517	3.287	9.9	-20.5	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.21	3130.159	11485.484	3.407	10.3	-17.6	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.21	4030.594	9336.800	5.396	16.3	30.6	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.21	4828.424	11492.746	5.252	15.9	27.1	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.21	5546.584	10207.450	6.792	20.5	64.4	NO		NO	bbX

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Compound name: 13C2-PFOA

Response Factor: 1.31562

RRF SD: 0.102816, Relative SD: 7.81499

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.26	14986.196	10455.541	17.917	13.6	8.9	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.27	15402.777	11401.075	16.887	12.8	2.7	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.27	14995.602	11289.436	16.604	12.6	1.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.26	15261.349	11037.333	17.284	13.1	5.1	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.27	12066.109	10950.517	13.773	10.5	-16.2	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.26	14377.668	11485.484	15.648	11.9	-4.9	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.26	13305.151	9336.800	17.813	13.5	8.3	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.26	14493.521	11492.746	15.764	12.0	-4.1	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.27	13325.603	10207.450	16.318	12.4	-0.8	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 1.10941

RRF SD: 0.0864275, Relative SD: 7.79042

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.70	11793.092	9298.485	15.854	14.3	14.3	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.70	13213.367	13757.303	12.006	10.8	-13.4	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.70	11998.833	11126.140	13.480	12.2	-2.8	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.70	13621.118	12010.803	14.176	12.8	2.2	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.70	10857.693	9983.889	13.594	12.3	-2.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.70	11081.860	9933.942	13.944	12.6	0.6	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.70	12774.957	11944.970	13.369	12.1	-3.6	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.70	13686.861	11445.361	14.948	13.5	7.8	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.70	12165.873	11316.916	13.438	12.1	-3.1	NO		NO	bb

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Compound name: 13C8-PFOA

Response Factor: 0.486659

RRF SD: 0.0551505, Relative SD: 11.3325

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.76	5569.955	10490.892	6.637	13.6	9.1	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.76	5358.861	13835.190	4.842	9.9	-20.4	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.76	5329.179	10860.360	6.134	12.6	0.8	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.76	5726.573	12737.067	5.620	11.5	-7.6	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.76	4991.189	10331.521	6.039	12.4	-0.7	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.76	5517.671	10115.299	6.818	14.0	12.1	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.76	5185.822	9385.699	6.907	14.2	13.5	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.76	4486.936	10362.999	5.412	11.1	-11.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.76	4309.351	8495.001	6.341	13.0	4.2	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 1.16307

RRF SD: 0.118825, Relative SD: 10.2165

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.78	3961.886	3627.601	13.652	11.7	-6.1	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.79	4202.965	3759.025	13.976	12.0	-3.9	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.79	3824.074	3418.211	13.984	12.0	-3.8	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.78	4171.431	3550.670	14.685	12.6	1.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.79	3971.090	2930.164	16.941	14.6	16.5	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.78	4199.015	3675.778	14.279	12.3	-1.8	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.78	3344.345	3278.602	12.751	11.0	-12.3	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.79	3731.729	3443.077	13.548	11.6	-6.8	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.78	3928.141	2883.384	17.029	14.6	17.1	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 1.69417

RRF SD: 0.243389, Relative SD: 14.3663

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.08	13277.271	8531.790	19.453	11.5	-8.1	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.08	13755.711	10867.503	15.822	9.3	-25.3	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.08	13960.345	7753.667	22.506	13.3	6.3	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.08	16462.906	9993.380	20.592	12.2	-2.8	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.08	12586.205	7944.206	19.804	11.7	-6.5	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.07	14401.109	8647.792	20.816	12.3	-1.7	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.08	13882.683	8317.349	20.864	12.3	-1.5	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.08	13885.411	7191.844	24.134	14.2	14.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.08	14094.339	6622.696	26.602	15.7	25.6	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.141026

RRF SD: 0.025341, Relative SD: 17.969

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.05	2556.902	14728.407	2.170	15.4	23.1	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.05	1847.024	17274.086	1.337	9.5	-24.2	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.05	1938.918	15017.057	1.614	11.4	-8.4	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.05	1981.295	14394.754	1.721	12.2	-2.4	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.05	1909.692	14670.499	1.627	11.5	-7.7	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.05	1869.104	14344.272	1.629	11.5	-7.6	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.05	1886.844	13846.278	1.703	12.1	-3.4	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.05	2525.145	13710.247	2.302	16.3	30.6	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.05	3228.416	12583.750	3.207	22.7	81.9	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.530041

RRF SD: 0.0661447, Relative SD: 12.4792

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.22	5837.595	10490.892	6.956	13.1	5.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.23	5713.971	13835.190	5.163	9.7	-22.1	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.23	5041.176	10860.360	5.802	10.9	-12.4	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.23	6137.867	12737.067	6.024	11.4	-9.1	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.23	5912.463	10331.521	7.153	13.5	8.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.22	5614.341	10115.299	6.938	13.1	4.7	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.23	5253.872	9385.699	6.997	13.2	5.6	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.23	5539.945	10362.999	6.682	12.6	0.9	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.22	5378.832	8495.001	7.915	14.9	19.5	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.540525

RRF SD: 0.074813, Relative SD: 13.8408

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.38	5927.860	10490.892	7.063	13.1	4.5	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.38	5663.546	13835.190	5.117	9.5	-24.3	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.38	5358.711	10860.360	6.168	11.4	-8.7	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.38	6340.133	12737.067	6.222	11.5	-7.9	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.38	5721.131	10331.521	6.922	12.8	2.4	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.38	5883.145	10115.299	7.270	13.5	7.6	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.38	6171.674	9385.699	8.220	15.2	21.7	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.38	5116.703	10362.999	6.172	11.4	-8.7	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.38	5202.822	8495.001	7.656	14.2	13.3	NO		NO	bb

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Compound name: 13C2-PFUdA

Response Factor: 1.35138

RRF SD: 0.0916015, Relative SD: 6.77839

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.40	14485.014	10490.892	17.259	12.8	2.2	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.40	17026.895	13835.190	15.384	11.4	-8.9	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.40	15036.768	10860.360	17.307	12.8	2.5	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.40	15867.293	12737.067	15.572	11.5	-7.8	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.40	12981.421	10331.521	15.706	11.6	-7.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.40	14691.471	10115.299	18.155	13.4	7.5	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.40	13345.833	9385.699	17.774	13.2	5.2	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.40	13670.872	10362.999	16.490	12.2	-2.4	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.40	12493.014	8495.001	18.383	13.6	8.8	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.764732

RRF SD: 0.0971208, Relative SD: 12.7

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.69	9386.053	10490.892	11.184	14.6	17.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.69	10756.433	13835.190	9.718	12.7	1.7	NO		NO	MM
3	3 171214M1_4	Standard	12.500	5.69	9407.077	10860.360	10.827	14.2	13.3	NO		NO	MM
4	4 171214M1_5	Standard	12.500	5.69	8348.009	12737.067	8.193	10.7	-14.3	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.69	8440.795	10331.521	10.212	13.4	6.8	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.69	7104.466	10115.299	8.779	11.5	-8.2	NO		NO	MM
7	7 171214M1_8	Standard	12.500	5.69	7010.936	9385.699	9.337	12.2	-2.3	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.69	6247.226	10362.999	7.535	9.9	-21.2	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.69	6963.103	8495.001	10.246	13.4	7.2	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.00224369

RRF SD: 0.00186211, Relative SD: 82.9934

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

not used

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	150.000			10490.892				NO		NO	
2	2 171214M1_3	Standard	150.000			13835.190				NO		NO	
3	3 171214M1_4	Standard	150.000			10860.360				NO		NO	
4	4 171214M1_5	Standard	150.000			12737.067				NO		NO	
5	5 171214M1_6	Standard	150.000			10331.521				NO		NO	
6	6 171214M1_7	Standard	150.000			10115.299				NO		NO	
7	7 171214M1_8	Standard	150.000	5.72	98.442	9385.699	0.131	58.4	-61.0	NO		NO	bb
8	8 171214M1_9	Standard	150.000	5.72	185.671	10362.999	0.224	99.8	-33.5	NO		NO	bb
9	9 171214M1_10	Standard	150.000	5.71	444.862	8495.001	0.655	291.7	94.5	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.771055

RRF SD: 0.148838, Relative SD: 19.3032

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	6.14	10504.209	10490.892	12.516	16.2	29.9	NO		NO	bb
2	2 171214M1_3	Standard	12.500	6.15	9892.584	13835.190	8.938	11.6	-7.3	NO		NO	bb
3	3 171214M1_4	Standard	12.500	6.14	9116.818	10860.360	10.493	13.6	8.9	NO		NO	bb
4	4 171214M1_5	Standard	12.500	6.14	7596.246	12737.067	7.455	9.7	-22.7	NO		NO	bb
5	5 171214M1_6	Standard	12.500	6.14	7139.130	10331.521	8.638	11.2	-10.4	NO		NO	bb
6	6 171214M1_7	Standard	12.500	6.14	8442.626	10115.299	10.433	13.5	8.2	NO		NO	bb
7	7 171214M1_8	Standard	12.500	6.15	6598.706	9385.699	8.788	11.4	-8.8	NO		NO	bb
8	8 171214M1_9	Standard	12.500	6.14	6127.906	10362.999	7.392	9.6	-23.3	NO		NO	bb
9	9 171214M1_10	Standard	12.500	6.14	8217.399	8495.001	12.092	15.7	25.5	NO		NO	bb

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Compound name: d5-N-ETFOSA

No Calibration

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	150.000			10490.892				NO		NO	
2	2 171214M1_3	Standard	150.000			13835.190				NO		NO	
3	3 171214M1_4	Standard	150.000			10860.360				NO		NO	
4	4 171214M1_5	Standard	150.000			12737.067				NO		NO	
5	5 171214M1_6	Standard	150.000			10331.521				NO		NO	
6	6 171214M1_7	Standard	150.000			10115.299				NO		NO	
7	7 171214M1_8	Standard	150.000			9385.699				NO		NO	
8	8 171214M1_9	Standard	150.000			10362.999				NO		NO	
9	9 171214M1_10	Standard	150.000			8495.001				NO		NO	

Compound name: 13C2-PFHxDA

Response Factor: 0.977728

RRF SD: 0.107234, Relative SD: 10.9676

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	5.000	6.47	4884.689	10490.892	5.820	6.0	19.1	NO		NO	bb
2	2 171214M1_3	Standard	5.000	6.47	5206.968	13835.190	4.704	4.8	-3.8	NO		NO	bb
3	3 171214M1_4	Standard	5.000	6.47	4266.891	10860.360	4.911	5.0	0.5	NO		NO	bb
4	4 171214M1_5	Standard	5.000	6.47	4046.595	12737.067	3.971	4.1	-18.8	NO		NO	bb
5	5 171214M1_6	Standard	5.000	6.47	3772.003	10331.521	4.564	4.7	-6.6	NO		NO	bb
6	6 171214M1_7	Standard	5.000	6.47	4211.861	10115.299	5.205	5.3	6.5	NO		NO	bb
7	7 171214M1_8	Standard	5.000	6.47	3950.334	9385.699	5.261	5.4	7.6	NO		NO	bb
8	8 171214M1_9	Standard	5.000	6.47	3708.780	10362.999	4.474	4.6	-8.5	NO		NO	bb
9	9 171214M1_10	Standard	5.000	6.47	3457.497	8495.001	5.088	5.2	4.1	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.000493444

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	150.000	6.46	62.120	10490.892	0.074	150.0	0.0	NO		NO	bb
2	2 171214M1_3	Standard	150.000			13835.190				NO		NO	
3	3 171214M1_4	Standard	150.000			10860.360				NO		NO	
4	4 171214M1_5	Standard	150.000			12737.067				NO		NO	
5	5 171214M1_6	Standard	150.000			10331.521				NO		NO	
6	6 171214M1_7	Standard	150.000			10115.299				NO		NO	
7	7 171214M1_8	Standard	150.000			9385.699				NO		NO	
8	8 171214M1_9	Standard	150.000			10362.999				NO		NO	
9	9 171214M1_10	Standard	150.000			8495.001				NO		NO	

Compound name: d9-N-EtFOSE

No Calibration

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

not used.

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	150.000			10490.892				NO		NO	
2	2 171214M1_3	Standard	150.000			13835.190				NO		NO	
3	3 171214M1_4	Standard	150.000			10860.360				NO		NO	
4	4 171214M1_5	Standard	150.000			12737.067				NO		NO	
5	5 171214M1_6	Standard	150.000			10331.521				NO		NO	
6	6 171214M1_7	Standard	150.000			10115.299				NO		NO	
7	7 171214M1_8	Standard	150.000			9385.699				NO		NO	
8	8 171214M1_9	Standard	150.000			10362.999				NO		NO	
9	9 171214M1_10	Standard	150.000			8495.001				NO		NO	

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	1.39	9805.063	9805.063	12.500	12.5	0.0	NO		NO	MM
2	2 171214M1_3	Standard	12.500	1.38	11972.704	11972.704	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	1.40	10277.052	10277.052	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	1.39	10268.646	10268.646	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	1.39	9828.214	9828.214	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	1.38	10600.053	10600.053	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	1.39	10278.941	10278.941	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	1.37	10597.973	10597.973	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	1.37	10068.471	10068.471	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	3.11	14728.407	14728.407	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	3.12	17274.086	17274.086	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	3.12	15017.057	15017.057	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	3.11	14394.754	14394.754	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	3.12	14670.499	14670.499	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	3.11	14344.272	14344.272	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	3.11	13846.278	13846.278	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	3.11	13710.247	13710.247	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	3.11	12583.750	12583.750	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	3.89	3056.209	3056.209	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	3.89	3209.532	3209.532	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	3.89	2695.082	2695.082	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	3.89	3252.028	3252.028	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	3.89	2834.188	2834.188	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	3.89	2796.386	2796.386	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	3.89	2840.536	2840.536	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	3.89	2832.290	2832.290	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	3.89	2578.660	2578.660	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.26	10455.541	10455.541	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.27	11401.075	11401.075	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.26	11289.436	11289.436	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.26	11037.333	11037.333	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.26	10950.517	10950.517	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.26	11485.484	11485.484	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.26	9336.800	9336.800	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.26	11492.746	11492.746	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.26	10207.450	10207.450	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171214M1\171214M1-CRV.qld

Last Altered: Friday, December 15, 2017 10:09:26 Pacific Standard Time

Printed: Friday, December 15, 2017 10:19:36 Pacific Standard Time

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.70	9298.485	9298.485	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.70	13757.303	13757.303	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.70	11126.140	11126.140	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.70	12010.803	12010.803	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.70	9983.889	9983.889	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.70	9933.942	9933.942	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.70	11944.970	11944.970	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.70	11445.361	11445.361	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.70	11316.916	11316.916	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	4.78	3627.601	3627.601	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	4.79	3759.025	3759.025	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	4.79	3418.211	3418.211	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	4.78	3550.670	3550.670	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	4.79	2930.164	2930.164	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	4.78	3675.778	3675.778	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	4.78	3278.602	3278.602	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	4.79	3443.077	3443.077	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	4.78	2883.384	2883.384	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171214M1\171214M1-CRV.qld

Last Altered: Friday, December 15, 2017 10:09:26 Pacific Standard Time

Printed: Friday, December 15, 2017 10:19:36 Pacific Standard Time

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.08	8531.790	8531.790	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.08	10867.503	10867.503	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.08	7753.667	7753.667	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.08	9993.380	9993.380	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.08	7944.206	7944.206	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.07	8647.792	8647.792	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.08	8317.349	8317.349	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.08	7191.844	7191.844	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.08	6622.696	6622.696	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUDa

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171214M1_2	Standard	12.500	5.40	10490.892	10490.892	12.500	12.5	0.0	NO		NO	bb
2	2 171214M1_3	Standard	12.500	5.40	13835.190	13835.190	12.500	12.5	0.0	NO		NO	bb
3	3 171214M1_4	Standard	12.500	5.40	10860.360	10860.360	12.500	12.5	0.0	NO		NO	bb
4	4 171214M1_5	Standard	12.500	5.40	12737.067	12737.067	12.500	12.5	0.0	NO		NO	bb
5	5 171214M1_6	Standard	12.500	5.40	10331.521	10331.521	12.500	12.5	0.0	NO		NO	bb
6	6 171214M1_7	Standard	12.500	5.40	10115.299	10115.299	12.500	12.5	0.0	NO		NO	bb
7	7 171214M1_8	Standard	12.500	5.40	9385.699	9385.699	12.500	12.5	0.0	NO		NO	bb
8	8 171214M1_9	Standard	12.500	5.40	10362.999	10362.999	12.500	12.5	0.0	NO		NO	bb
9	9 171214M1_10	Standard	12.500	5.40	8495.001	8495.001	12.500	12.5	0.0	NO		NO	bb

Dataset: Untitled

Last Altered: Friday, December 15, 2017 10:40:44 Pacific Standard Time

Printed: Friday, December 15, 2017 10:42:20 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 14 Dec 2017 08:34:51

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171214M1_2	ST171214M1-1 PFC CS-2 17L1404	14-Dec-17	18:54:16
2	171214M1_3	ST171214M1-2 PFC CS-1 17L1405	14-Dec-17	19:05:27
3	171214M1_4	ST171214M1-3 PFC CS0 17L1406	14-Dec-17	19:16:41
4	171214M1_5	ST171214M1-4 PFC CS1 17L1407	14-Dec-17	19:27:58
5	171214M1_6	ST171214M1-5 PFC CS2 17L1408	14-Dec-17	19:39:10
6	171214M1_7	ST171214M1-6 PFC CS3 17L1409	14-Dec-17	19:50:20
7	171214M1_8	ST171214M1-7 PFC CS4 17L1410	14-Dec-17	20:01:31
8	171214M1_9	ST171214M1-8 PFC CS5 17L1411	14-Dec-17	20:12:42
9	171214M1_10	ST171214M1-9 PFC CS6 17L1412	14-Dec-17	20:23:53
10	171214M1_11	ST171214M1-10 PFC CS7 17L1413	14-Dec-17	20:35:03
11	171214M1_12	IPA	14-Dec-17	20:46:15
12	171214M1_13	ICV171214M1-1 PFC ICV 17L1403	14-Dec-17	20:57:25
13	171214M1_14	IPA	14-Dec-17	21:08:36

Dataset: U:\Q4.PRO\results\171214M1\171214M1-13.qld

① No second source available.

Last Altered: Friday, December 15, 2017 10:24:46 Pacific Standard Time

Printed: Friday, December 15, 2017 10:25:04 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 14 Dec 2017 08:34:51

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Name: 171214M1_13, Date: 14-Dec-2017, Time: 20:57:25, ID: ICV171214M1-1 PFC ICV 17L1403, Description: PFC ICV 17L1403

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	8.46e3	1.01e4	1.0000		1.46	1.40	10.4	9.733	97.3
2	2 PFPeA	263.1 > 218.9	1.09e4	1.39e4	1.0000		2.41	2.35	9.77	10.674	106.7
3	3 PFBS	299.0 > 79.7	2.36e3	1.70e3	1.0000		2.70	2.62	17.3	8.520	85.2
4	4 PFHxA	313.2 > 268.9	1.26e4	4.83e3	1.0000		3.18	3.12	13.0	8.966	89.7
5	5 PFHpA	363.0 > 318.9	1.01e4	9.82e3	1.0000		3.80	3.75	12.8	9.647	96.5
6	6 L-PFHxS	398.9 > 79.6	2.01e3	1.53e3	1.0000		4.00	3.90	16.4	8.490	84.9
7	8 6:2 FTS	427.1 > 407	2.50e3	3.29e3	1.0000		4.26	4.21	9.49	9.027	90.3
8	9 L-PFOA	413 > 368.7	1.04e4	1.37e4	1.0000		4.32	4.27	9.50	10.219	102.2
9	11 PFHpS	449 > 80.0	2.66e3	1.37e4	1.0000		4.43	4.38	2.43	9.763	97.6
10	12 PFNA	463.0 > 418.8	1.22e4	1.28e4	1.0000		4.78	4.71	11.9	9.478	94.8
11	13 PFOSA	498.1 > 77.8	3.37e3	4.84e3	1.0000		4.81	4.76	8.72	9.177	91.8
12	14 L-PFOS	499 > 79.9	2.50e3	3.26e3	1.0000		4.83	4.79	9.58	8.539	85.4
13	16 PFDA	513 > 468.8	1.26e4	1.47e4	1.0000		5.12	5.08	10.7	9.621	96.2
14	17 8:2 FTS	527 > 506.9	2.92e3	2.00e3	1.0000		5.09	5.05	18.3	8.878	88.8
15	18 N-MeFOSAA	570.1 > 419	6.76e3	4.79e3	1.0000		5.25	5.24	17.6	12.508	125.1
16	19 N-EtFOSAA	584.2 > 419	4.28e3	5.56e3	1.0000		5.45	5.39	9.60	9.027	90.3
17	20 PFUdA	563.0 > 518.9	1.15e4	1.52e4	1.0000		5.44	5.41	9.46	9.601	96.0
18	21 PFDS	598.8 > 80	2.61e3	1.52e4	1.0000		5.49	5.46	2.15	7.559	75.6
19	22 PFDoA	612.9 > 569.0	1.19e4	8.85e3	1.0000		5.75	5.69	16.8	8.167	81.7
20	23 N-MeFOSA	512.1 > 168.9			1.0000		5.80				①
21	24 PFTTrDA	662.9 > 618.9	1.19e4	8.85e3	1.0000		5.97	5.94	16.9	8.003	80.0
22	25 PFTeDA	712.9 > 668.8	1.01e4	8.06e3	1.0000		6.20	6.15	15.7	9.094	90.9
23	26 N-EtFOSA	526.1 > 168.9			1.0000		6.16				①
24	27 PFHxDA	813.1 > 768.6		4.48e3	1.0000		6.50				
25	28 PFODA	913.1 > 868.8		4.48e3	1.0000		6.75				
26	29 N-MeFOSE	616.1 > 58.9			1.0000		6.30				
27	30 N-EtFOSE	630.1 > 58.9			1.0000		6.42				
28	31 13C3-PFBA	216.1 > 171.8	1.01e4	9.82e3	1.0000	1.056	1.46	1.39	12.9	12.197	97.6
29	32 13C3-PFPeA	266. > 221.8	1.39e4	1.26e4	1.0000	1.044	2.41	2.35	13.8	13.184	105.5
30	33 13C3-PFBS	302. > 98.8	1.70e3	1.26e4	1.0000	0.124	2.70	2.62	1.68	13.540	108.3
31	Work Order 12-15-17	315 > 269.8	4.83e3	1.26e4	1.0000	0.897	3.18	3.12	4.77	5.322	106.4

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Dataset: U:\Q4.PRO\results\171214M1\171214M1-13.qld

Last Altered: Friday, December 15, 2017 10:24:46 Pacific Standard Time

Printed: Friday, December 15, 2017 10:25:04 Pacific Standard Time

Name: 171214M1_13, Date: 14-Dec-2017, Time: 20:57:25, ID: ICV171214M1-1 PFC ICV 17L1403, Description: PFC ICV 17L1403

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	9.82e3	1.26e4	1.0000	0.689	3.80	3.75	9.71	14.089	112.7
33	36 18O2-PFHxS	403.0 > 102.6	1.53e3	2.98e3	1.0000	0.530	4.00	3.90	6.45	12.158	97.3
34	37 13C2-6:2 FTS	429.1 > 408.9	3.29e3	9.69e3	1.0000	0.331	4.26	4.21	4.25	12.846	102.8
35	38 13C2-PFOA	414.9 > 369.7	1.37e4	9.69e3	1.0000	1.316	4.32	4.27	17.6	13.403	107.2
36	39 13C5-PFNA	468.2 > 422.9	1.28e4	9.88e3	1.0000	1.109	4.78	4.71	16.2	14.632	117.1
37	40 13C8-PFOSA	506.1 > 77.7	4.84e3	9.89e3	1.0000	0.487	4.81	4.76	6.11	12.560	100.5
38	41 13C8-PFOS	507.0 > 79.9	3.26e3	3.07e3	1.0000	1.163	4.83	4.79	13.3	11.415	91.3
39	42 13C2-PFDA	515.1 > 469.9	1.47e4	8.92e3	1.0000	1.694	5.12	5.08	20.6	12.141	97.1
40	43 13C2-8:2 FTS	529.1 > 508.7	2.00e3	1.26e4	1.0000	0.141	5.09	5.05	1.97	14.004	112.0
41	44 d3-N-MeFOSAA	573.3 > 419	4.79e3	9.89e3	1.0000	0.530	5.25	5.23	6.05	11.420	91.4
42	45 d5-N-ElFOSAA	589.3 > 419	5.56e3	9.89e3	1.0000	0.541	5.45	5.38	7.03	13.007	104.1
43	46 13C2-PFUdA	565 > 519.8	1.52e4	9.89e3	1.0000	1.351	5.44	5.41	19.2	14.219	113.8
44	47 13C2-PFDoA	615.0 > 569.7	8.85e3	9.89e3	1.0000	0.765	5.75	5.69	11.2	14.620	117.0
45	48 d3-N-MeFOSA	515.2 > 168.9		9.89e3	1.0000	0.002	5.80				
46	49 13C2-PFTeDA	714.8 > 669.6	8.06e3	9.89e3	1.0000	0.771	6.20	6.15	10.2	13.200	105.6
47	50 d5-N-ETFOSA	531.1 > 168.9		9.89e3	1.0000		6.16				
48	51 13C2-PFHxDA	815 > 769.7	4.48e3	9.89e3	1.0000	0.978	6.50	6.47	5.66	5.792	115.8
49	52 d7-N-MeFOSE	623.1 > 58.9		9.89e3	1.0000	0.000	6.30				
50	53 d9-N-ElFOSE	639.2 > 58.8		9.89e3	1.0000		6.42				
51	54 13C4-PFBA	217. > 171.8	9.82e3	9.82e3	1.0000	1.000	1.46	1.40	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.26e4	1.26e4	1.0000	1.000	3.18	3.12	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.98e3	2.98e3	1.0000	1.000	4.00	3.89	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	9.69e3	9.69e3	1.0000	1.000	4.32	4.27	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	9.88e3	9.88e3	1.0000	1.000	4.78	4.71	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.07e3	3.07e3	1.0000	1.000	4.83	4.79	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.92e3	8.92e3	1.0000	1.000	5.12	5.08	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	9.89e3	9.89e3	1.0000	1.000	5.44	5.41	12.5	12.500	100.0

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Dataset: U:\Q4.PRO\results\171229M2\171229M2-CRV.qld

Last Altered: Friday, December 29, 2017 16:04:07 Pacific Standard Time

Printed: Friday, December 29, 2017 16:06:54 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122717.mdb 29 Dec 2017 11:28:58

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Compound name: PFBACorrelation coefficient: $r = 0.999642$, $r^2 = 0.999283$ Calibration curve: $1.37088 * x + -0.0691704$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	1.40	203.083	8904.588	0.285	0.3	3.4	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	1.40	379.981	9984.899	0.476	0.4	-20.5	NO	0.999	NO	db
3	3 171229M2_4	Standard	1.000	1.41	955.540	9468.932	1.261	1.0	-2.9	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	1.40	2103.677	10485.881	2.508	1.9	-6.0	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	1.40	5282.352	9617.440	6.866	5.1	1.2	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	1.40	11461.131	10147.202	14.119	10.3	3.5	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	1.40	56432.824	10018.672	70.410	51.4	2.8	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	1.40	101946.633	9449.357	134.859	98.4	-1.6	NO	0.999	NO	bb

Compound name: PFPeACorrelation coefficient: $r = 0.999696$, $r^2 = 0.999391$ Calibration curve: $1.19449 * x + -0.0389932$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	2.35	265.946	10303.608	0.323	0.3	21.1	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	2.35	545.145	11963.811	0.570	0.5	1.9	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	2.36	964.432	11397.529	1.058	0.9	-8.2	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	2.35	2111.940	12774.396	2.067	1.8	-11.9	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	2.36	5688.785	12100.899	5.876	5.0	-1.0	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	2.36	11905.028	12664.979	11.750	9.9	-1.3	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	2.36	58060.059	12439.228	58.344	48.9	-2.2	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	2.35	108102.617	11142.673	121.271	101.6	1.6	NO	0.999	NO	bb

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Compound name: PFBS

Correlation coefficient: $r = 0.999500$, $r^2 = 0.999001$

Calibration curve: $2.16257 * x + -0.0590175$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	2.63	62.026	1558.021	0.498	0.3	3.0	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	2.63	152.137	1616.337	1.177	0.6	14.3	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	2.63	252.478	1539.314	2.050	1.0	-2.5	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	2.63	479.775	1659.784	3.613	1.7	-15.1	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	2.63	1383.079	1591.105	10.866	5.1	1.0	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	2.63	2621.392	1504.048	21.786	10.1	1.0	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	2.63	13557.104	1627.218	104.143	48.2	-3.6	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	2.63	27388.484	1553.847	220.328	101.9	1.9	NO	0.999	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999421$, $r^2 = 0.998842$

Calibration curve: $1.87128 * x + -0.0343505$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	3.12	350.182	3513.841	0.498	0.3	13.9	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	3.12	675.696	4036.555	0.837	0.5	-6.9	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	3.12	1089.318	3698.728	1.473	0.8	-19.5	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	3.12	2680.715	3464.033	3.869	2.1	4.3	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	3.12	6861.220	3759.616	9.125	4.9	-2.1	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	3.12	15657.951	3763.830	20.801	11.1	11.3	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	3.12	73381.172	3933.006	93.289	49.9	-0.3	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	3.12	137598.078	3706.605	185.612	99.2	-0.8	NO	0.999	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999428$, $r^2 = 0.998856$

Calibration curve: $1.58151 * x + -0.0944503$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	3.74	202.101	8907.467	0.284	0.2	-4.4	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	3.74	594.596	9815.644	0.757	0.5	7.7	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	3.73	1098.379	8838.820	1.553	1.0	4.2	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	3.74	2238.531	10366.868	2.699	1.8	-11.7	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	3.74	6362.017	9360.222	8.496	5.4	8.6	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	3.74	12309.141	10473.959	14.690	9.3	-6.5	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	3.74	60958.422	9336.860	81.610	51.7	3.3	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	3.74	117741.930	9432.322	156.035	98.7	-1.3	NO	0.999	NO	bb

Compound name: L-PFHxS

Correlation coefficient: $r = 0.999540$, $r^2 = 0.999081$

Calibration curve: $2.12712 * x + -0.0697927$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	3.89	47.271	1144.698	0.516	0.3	10.2	NO	0.999	NO	MM
2	2 171229M2_3	Standard	0.500	3.88	108.905	1280.945	1.063	0.5	6.5	NO	0.999	NO	MM
3	3 171229M2_4	Standard	1.000	3.88	168.136	1074.276	1.956	1.0	-4.7	NO	0.999	NO	MM
4	4 171229M2_5	Standard	2.000	3.89	418.823	1469.055	3.564	1.7	-14.6	NO	0.999	NO	MM
5	5 171229M2_6	Standard	5.000	3.88	1102.041	1196.888	11.509	5.4	8.9	NO	0.999	NO	MM
6	6 171229M2_7	Standard	10.000	3.89	2211.804	1407.185	19.647	9.3	-7.3	NO	0.999	NO	MM
7	7 171229M2_8	Standard	50.000	3.88	10720.032	1247.672	107.400	50.5	1.0	NO	0.999	NO	MM
8	8 171229M2_9	Standard	100.000	3.89	19606.227	1152.019	212.738	100.0	0.0	NO	0.999	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995124$

Calibration curve: $0.000489747 * x^2 + 0.24128 * x + 0.0169506$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.19	75.243	13054.395	0.072	0.2	-8.7	NO	0.995	NO	bb
2	2 171229M2_3	Standard	0.500	4.19	147.079	14310.572	0.128	0.5	-7.6	NO	0.995	NO	bb
3	3 171229M2_4	Standard	1.000	4.19	250.888	12549.276	0.250	1.0	-3.6	NO	0.995	NO	bb
4	4 171229M2_5	Standard	2.000	4.20	547.291	15995.349	0.428	1.7	-15.2	NO	0.995	NO	bb
5	5 171229M2_6	Standard	5.000	4.19	1674.288	13236.790	1.581	6.4	28.0	NO	0.995	NO	bb
6	6 171229M2_7	Standard	10.000	4.19	3311.861	14776.837	2.802	11.3	12.8	NO	0.995	NO	bb
7	7 171229M2_8	Standard	50.000	4.19	14577.188	14864.127	12.259	46.4	-7.3	NO	0.995	NO	bb
8	8 171229M2_9	Standard	100.000	4.19	30013.492	12709.908	29.518	101.4	1.4	NO	0.995	NO	bb

Compound name: L-PFOA

Correlation coefficient: $r = 0.999271$, $r^2 = 0.998543$

Calibration curve: $1.19548 * x + 0.228921$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.25	623.100	13054.395	0.597	0.3	23.0	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	4.24	970.341	14310.572	0.848	0.5	3.5	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	4.25	1327.619	12549.276	1.322	0.9	-8.5	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	4.25	2816.831	15995.349	2.201	1.6	-17.5	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	4.25	6294.915	13236.790	5.945	4.8	-4.4	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	4.25	15220.946	14776.837	12.876	10.6	5.8	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	4.25	68644.867	14864.127	57.727	48.1	-3.8	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	4.25	124103.242	12709.908	122.054	101.9	1.9	NO	0.999	NO	bb

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.996923$

Calibration curve: $0.000286563 * x^2 + 0.246658 * x + 0.015286$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.35	66.782	13054.395	0.064	0.2	-21.1	NO	0.997	NO	bb
2	2 171229M2_3	Standard	0.500	4.36	168.818	14310.572	0.147	0.5	7.1	NO	0.997	NO	bb
3	3 171229M2_4	Standard	1.000	4.36	252.970	12549.276	0.252	1.0	-4.1	NO	0.997	NO	bb
4	4 171229M2_5	Standard	2.000	4.36	607.702	15995.349	0.475	1.9	-7.0	NO	0.997	NO	bb
5	5 171229M2_6	Standard	5.000	4.36	1590.250	13236.790	1.502	6.0	19.7	NO	0.997	NO	bb
6	6 171229M2_7	Standard	10.000	4.36	3274.734	14776.837	2.770	11.0	10.3	NO	0.997	NO	bb
7	7 171229M2_8	Standard	50.000	4.36	14539.520	14864.127	12.227	46.9	-6.1	NO	0.997	NO	bb
8	8 171229M2_9	Standard	100.000	4.36	28397.074	12709.908	27.928	101.3	1.3	NO	0.997	NO	bb

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.997989$

Calibration curve: $-0.00101357 * x^2 + 1.56335 * x + -0.000922713$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.68	376.448	9559.854	0.492	0.3	26.2	NO	0.998	NO	bb
2	2 171229M2_3	Standard	0.500	4.68	656.091	11886.128	0.690	0.4	-11.6	NO	0.998	NO	bb
3	3 171229M2_4	Standard	1.000	4.68	1326.133	10985.445	1.509	1.0	-3.4	NO	0.998	NO	bb
4	4 171229M2_5	Standard	2.000	4.68	2590.874	11245.406	2.880	1.8	-7.8	NO	0.998	NO	bb
5	5 171229M2_6	Standard	5.000	4.68	7038.520	10698.335	8.224	5.3	5.6	NO	0.998	NO	bb
6	6 171229M2_7	Standard	10.000	4.68	13863.008	12722.333	13.621	8.8	-12.4	NO	0.998	NO	bb
7	7 171229M2_8	Standard	50.000	4.68	63810.574	10121.980	78.802	52.2	4.3	NO	0.998	NO	bb
8	8 171229M2_9	Standard	100.000	4.68	127829.383	11035.840	144.789	99.0	-1.0	NO	0.998	NO	bb

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Compound name: PFOSACorrelation coefficient: $r = 0.999632$, $r^2 = 0.999264$ Calibration curve: $1.34133 * x + -0.0872836$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.74	49.790	2711.756	0.230	0.2	-5.5	NO	0.999	NO	MM
2	2 171229M2_3	Standard	0.500	4.74	177.518	3102.326	0.715	0.6	19.7	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	4.74	252.066	3049.030	1.033	0.8	-16.5	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	4.74	602.093	3142.559	2.395	1.9	-7.5	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	4.74	1470.173	2594.765	7.082	5.3	6.9	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	4.75	3202.764	2934.554	13.642	10.2	2.4	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	4.74	15490.584	2840.989	68.157	50.9	1.8	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	4.74	30231.414	2854.235	132.397	98.8	-1.2	NO	0.999	NO	bb

Compound name: L-PFOSCoefficient of Determination: $R^2 = 0.990401$ Calibration curve: $-0.00113144 * x^2 + 1.36155 * x + -0.136077$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	4.76	59.486	3197.572	0.233	0.3	8.3	NO	0.990	NO	MM
2	2 171229M2_3	Standard	0.500	4.76	168.210	3759.751	0.559	0.5	2.2	NO	0.990	NO	MM
3	3 171229M2_4	Standard	1.000	4.76	310.262	3437.048	1.128	0.9	-7.1	NO	0.990	NO	MM
4	4 171229M2_5	Standard	2.000	4.76	650.569	3679.354	2.210	1.7	-13.7	NO	0.990	NO	MM
5	5 171229M2_6	Standard	5.000	4.76	1422.476	3383.786	5.255	4.0	-20.6	NO	0.990	NO	MM
6	6 171229M2_7	Standard	10.000	4.76	3144.695	3618.413	10.864	8.1	-18.7	NO	0.990	NO	MM
7	7 171229M2_8	Standard	50.000	4.76	17382.598	2972.808	73.090	56.4	12.9	NO	0.990	NO	MM
8	8 171229M2_9	Standard	100.000	4.76	33925.844	3503.462	121.044	96.8	-3.2	NO	0.990	NO	MM

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Compound name: PFDACoefficient of Determination: $R^2 = 0.998686$ Calibration curve: $0.00134624 * x^2 + 1.49368 * x + -0.0435348$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.04	264.860	9787.770	0.338	0.3	2.2	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	5.04	697.920	13313.300	0.655	0.5	-6.5	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	5.05	1510.254	11579.593	1.630	1.1	11.9	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	5.05	2157.441	10793.412	2.499	1.7	-15.0	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	5.05	6589.435	11236.213	7.331	4.9	-1.7	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	5.05	16440.434	12281.298	16.733	11.1	11.2	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	5.04	54934.242	9060.415	75.789	48.6	-2.7	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	5.05	143479.094	10953.324	163.739	100.5	0.5	NO	0.999	NO	bb

Compound name: 8:2 FTSCoefficient of Determination: $R^2 = 0.998718$ Calibration curve: $0.00142024 * x^2 + 0.296775 * x + -0.0229517$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.02	57.565	9787.770	0.074	0.3	29.8	NO	0.999	NO	MM
2	2 171229M2_3	Standard	0.500	5.02	123.106	13313.300	0.116	0.5	-6.8	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	5.02	178.003	11579.593	0.192	0.7	-27.8	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	5.02	497.074	10793.412	0.576	2.0	-0.1	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	5.02	1411.300	11236.213	1.570	5.2	4.7	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	5.02	3037.472	12281.298	3.092	10.0	0.1	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	5.02	13307.744	9060.415	18.360	50.0	-0.0	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	5.02	28544.467	10953.324	32.575	79.6	-20.4	NO	0.999	NO	bbX

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.998636$

Calibration curve: $0.000145261 * x^2 + 1.66875 * x + -0.0626511$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	0.250	5.20	144.439	5085.497	0.355	0.3	0.1	NO	0.999	NO	bb
2	2	171229M2_3	Standard	0.500	5.20	346.408	6075.852	0.713	0.5	-7.1	NO	0.999	NO	bb
3	3	171229M2_4	Standard	1.000	5.20	615.319	5465.513	1.407	0.9	-11.9	NO	0.999	NO	bb
4	4	171229M2_5	Standard	2.000	5.20	1596.097	6024.812	3.312	2.0	1.1	NO	0.999	NO	bb
5	5	171229M2_6	Standard	5.000	5.20	3357.144	5469.510	7.672	4.6	-7.3	NO	0.999	NO	bb
6	6	171229M2_7	Standard	10.000	5.20	8000.172	5362.439	18.649	11.2	12.0	NO	0.999	NO	bb
7	7	171229M2_8	Standard	50.000	5.20	37904.684	5797.623	81.725	48.8	-2.4	NO	0.999	NO	bb
8	8	171229M2_9	Standard	100.000	5.20	71340.836	5273.478	169.103	100.5	0.5	NO	0.999	NO	bb

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999635$

Calibration curve: $-0.000224178 * x^2 + 1.34483 * x + -0.0879337$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	0.250	5.35	100.624	6335.104	0.199	0.2	-14.8	NO	1.000	NO	bb
2	2	171229M2_3	Standard	0.500	5.35	287.867	6832.871	0.527	0.5	-8.6	NO	1.000	NO	bb
3	3	171229M2_4	Standard	1.000	5.35	529.499	6085.677	1.088	0.9	-12.6	NO	1.000	NO	bb
4	4	171229M2_5	Standard	2.000	5.35	1587.899	6995.571	2.837	2.2	8.8	NO	1.000	NO	bb
5	5	171229M2_6	Standard	5.000	5.35	3530.072	6601.813	6.684	5.0	0.8	NO	1.000	NO	bb
6	6	171229M2_7	Standard	10.000	5.35	7551.377	7053.357	13.383	10.0	0.3	NO	1.000	NO	bb
7	7	171229M2_8	Standard	50.000	5.35	32249.033	6062.098	66.497	49.9	-0.1	NO	1.000	NO	bb
8	8	171229M2_9	Standard	100.000	5.35	56977.098	5387.725	132.192	100.0	0.0	NO	1.000	NO	bb

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Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.999185$

Calibration curve: $0.00400691 * x^2 + 1.19417 * x + 0.0119652$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.36	352.251	12200.924	0.361	0.3	16.8	NO	0.999	NO	MM
2	2 171229M2_3	Standard	0.500	5.36	591.197	13014.458	0.568	0.5	-7.0	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	5.37	1014.264	11054.450	1.147	0.9	-5.3	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	5.37	2260.135	13105.806	2.156	1.8	-10.8	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	5.36	6342.362	12129.378	6.536	5.4	7.3	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	5.37	14299.663	14621.663	12.225	9.9	-1.0	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	5.37	68892.594	12349.849	69.730	50.0	-0.0	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	5.37	113701.578	14387.557	98.785	67.4	-32.6	NO	0.999	NO	bbX

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.999749$

Calibration curve: $0.000948867 * x^2 + 0.345044 * x + 0.010668$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.41	80.006	12200.924	0.082	0.2	-17.4	NO	1.000	NO	bb
2	2 171229M2_3	Standard	0.500	5.41	211.902	13014.458	0.204	0.6	11.6	NO	1.000	NO	bb
3	3 171229M2_4	Standard	1.000	5.41	329.451	11054.450	0.373	1.0	4.6	NO	1.000	NO	bb
4	4 171229M2_5	Standard	2.000	5.41	756.411	13105.806	0.721	2.0	2.4	NO	1.000	NO	bb
5	5 171229M2_6	Standard	5.000	5.41	1707.430	12129.378	1.760	5.0	-0.0	NO	1.000	NO	bb
6	6 171229M2_7	Standard	10.000	5.41	4105.881	14621.663	3.510	9.9	-1.3	NO	1.000	NO	bb
7	7 171229M2_8	Standard	50.000	5.41	19407.148	12349.849	19.643	50.0	0.0	NO	1.000	NO	bb
8	8 171229M2_9	Standard	100.000	5.42	32172.121	14387.557	27.951	68.2	-31.8	NO	1.000	NO	bbX

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Compound name: PFDaA

Coefficient of Determination: $R^2 = 0.999669$

Calibration curve: $0.00495795 * x^2 + 2.08516 * x + -0.00338272$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.65	370.890	8043.755	0.576	0.3	11.1	NO	1.000	NO	bb
2	2 171229M2_3	Standard	0.500	5.65	729.228	9002.822	1.012	0.5	-2.7	NO	1.000	NO	bb
3	3 171229M2_4	Standard	1.000	5.65	1390.614	9574.130	1.816	0.9	-12.9	NO	1.000	NO	bb
4	4 171229M2_5	Standard	2.000	5.65	3035.353	8821.307	4.301	2.1	2.7	NO	1.000	NO	bb
5	5 171229M2_6	Standard	5.000	5.65	7252.884	8400.495	10.792	5.1	2.3	NO	1.000	NO	bb
6	6 171229M2_7	Standard	10.000	5.65	16908.895	9958.397	21.224	9.9	-0.5	NO	1.000	NO	bb
7	7 171229M2_8	Standard	50.000	5.65	82767.836	8869.276	116.650	50.0	0.0	NO	1.000	NO	bb
8	8 171229M2_9	Standard	100.000	5.65	133277.297	7321.213	227.553	89.9	-10.1	NO	1.000	NO	bbX

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999575$, $r^2 = 0.999151$

Calibration curve: $1.1137 * x + -0.0420228$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	1.250	5.79	139.498	15269.275	1.370	1.3	1.5	NO	0.999	NO	bb
2	2 171229M2_3	Standard	2.500	5.79	272.447	16568.037	2.467	2.3	-9.9	NO	0.999	NO	bb
3	3 171229M2_4	Standard	5.000	5.79	611.306	16161.567	5.674	5.1	2.6	NO	0.999	NO	bb
4	4 171229M2_5	Standard	10.000	5.79	1167.968	17375.629	10.083	9.1	-9.1	NO	0.999	NO	bb
5	5 171229M2_6	Standard	25.000	5.79	3164.595	16523.939	28.727	25.8	3.3	NO	0.999	NO	bb
6	6 171229M2_7	Standard	50.000	5.79	6869.791	17052.381	60.430	54.3	8.6	NO	0.999	NO	bb
7	7 171229M2_8	Standard	250.000	5.79	33022.855	17525.244	282.645	253.8	1.5	NO	0.999	NO	bb
8	8 171229M2_9	Standard	500.000	5.79	60258.223	16495.586	547.949	492.0	-1.6	NO	0.999	NO	bb

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Compound name: PFTTrDA

Correlation coefficient: $r = 0.997052$, $r^2 = 0.994114$

Calibration curve: $1.7339 * x + 0.0945455$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	5.89	282.867	8043.755	0.440	0.2	-20.4	NO	0.994	NO	bb
2	2 171229M2_3	Standard	0.500	5.89	729.105	9002.822	1.012	0.5	5.9	NO	0.994	NO	bb
3	3 171229M2_4	Standard	1.000	5.89	1436.530	9574.130	1.876	1.0	2.7	NO	0.994	NO	bb
4	4 171229M2_5	Standard	2.000	5.89	2986.740	8821.307	4.232	2.4	19.3	NO	0.994	NO	bb
5	5 171229M2_6	Standard	5.000	5.89	6268.928	8400.495	9.328	5.3	6.5	NO	0.994	NO	bb
6	6 171229M2_7	Standard	10.000	5.89	11719.059	9958.397	14.710	8.4	-15.7	NO	0.994	NO	bb
7	7 171229M2_8	Standard	50.000	5.89	62631.121	8869.276	88.270	50.9	1.7	NO	0.994	NO	bb
8	8 171229M2_9	Standard	100.000	5.89	139096.016	7321.213	237.488	136.9	36.9	NO	0.994	NO	bbX

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.992136$

Calibration curve: $-0.0140955 * x^2 + 3.56538 * x + -0.690853$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	6.11	244.810	2829.090	1.082	0.5	99.3	NO	0.992	NO	bbX
2	2 171229M2_3	Standard	0.500	6.11	367.674	2958.684	1.553	0.6	26.2	NO	0.992	NO	bb
3	3 171229M2_4	Standard	1.000	6.11	509.214	2615.306	2.434	0.9	-12.1	NO	0.992	NO	bb
4	4 171229M2_5	Standard	2.000	6.11	1326.894	3232.627	5.131	1.6	-17.8	NO	0.992	NO	bb
5	5 171229M2_6	Standard	5.000	6.11	3081.166	2664.266	14.456	4.3	-13.6	NO	0.992	NO	bb
6	6 171229M2_7	Standard	10.000	6.11	7154.924	2219.846	40.290	12.1	20.7	NO	0.992	NO	bb
7	7 171229M2_8	Standard	50.000	6.11	29792.066	2718.020	137.012	47.6	-4.9	NO	0.992	NO	bb
8	8 171229M2_9	Standard	100.000	6.11	54455.273	3136.443	217.026	103.0	3.0	NO	0.992	NO	db

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999388$

Calibration curve: $7.91091e-005 * x^2 + 0.999512 * x + -0.30824$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	1.250	6.18	164.125	23839.549	1.033	1.3	7.3	NO	0.999	NO	bb
2	2 171229M2_3	Standard	2.500	6.18	385.344	26388.232	2.190	2.5	-0.0	NO	0.999	NO	bb
3	3 171229M2_4	Standard	5.000	6.18	692.366	24893.941	4.172	4.5	-10.4	NO	0.999	NO	bb
4	4 171229M2_5	Standard	10.000	6.18	1595.581	26004.342	9.204	9.5	-4.9	NO	0.999	NO	bb
5	5 171229M2_6	Standard	25.000	6.18	4264.833	25204.795	25.381	25.6	2.6	NO	0.999	NO	bb
6	6 171229M2_7	Standard	50.000	6.18	9001.179	25237.131	53.500	53.6	7.2	NO	0.999	NO	bb
7	7 171229M2_8	Standard	250.000	6.18	42323.582	25543.053	248.543	244.3	-2.3	NO	0.999	NO	bb
8	8 171229M2_9	Standard	500.000	6.18	80006.500	22997.896	521.829	502.4	0.5	NO	0.999	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.998957$

Calibration curve: $-0.00263936 * x^2 + 0.996705 * x + 0.0130421$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	6.44	152.043	2686.105	0.283	0.3	8.4	NO	0.999	NO	bb
2	2 171229M2_3	Standard	0.500	6.44	227.073	2563.167	0.443	0.4	-13.6	NO	0.999	NO	bb
3	3 171229M2_4	Standard	1.000	6.44	480.162	2352.455	1.021	1.0	1.4	NO	0.999	NO	bb
4	4 171229M2_5	Standard	2.000	6.44	1022.876	2540.338	2.013	2.0	0.9	NO	0.999	NO	bb
5	5 171229M2_6	Standard	5.000	6.44	2409.130	2528.023	4.765	4.8	-3.4	NO	0.999	NO	bb
6	6 171229M2_7	Standard	10.000	6.44	4359.802	2073.382	10.514	10.8	8.5	NO	0.999	NO	bb
7	7 171229M2_8	Standard	50.000	6.44	23275.369	2760.265	42.161	48.5	-3.0	NO	0.999	NO	bb
8	8 171229M2_9	Standard	100.000	6.44	33664.332	2281.944	73.762	101.0	1.0	NO	0.999	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.995499$

Calibration curve: $0.0585969 * x^2 + 0.831628 * x + 0.090875$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	0.250	6.67	146.344	2686.105	0.272	0.2	-14.0	NO	0.995	NO	bb
2	2 171229M2_3	Standard	0.500	6.67	288.885	2563.167	0.564	0.5	9.4	NO	0.995	NO	bb
3	3 171229M2_4	Standard	1.000	6.67	543.023	2352.455	1.154	1.2	18.0	NO	0.995	NO	bb
4	4 171229M2_5	Standard	2.000	6.67	829.352	2540.338	1.632	1.7	-17.0	NO	0.995	NO	bb
5	5 171229M2_6	Standard	5.000	6.67	3008.684	2528.023	5.951	5.2	3.3	NO	0.995	NO	bb
6	6 171229M2_7	Standard	10.000	6.67	5888.835	2073.382	14.201	10.0	-0.3	NO	0.995	NO	bb
7	7 171229M2_8	Standard	50.000	6.67	26019.475	2760.265	47.132	22.1	-55.8	NO	0.995	NO	bbX
8	8 171229M2_9	Standard	100.000	6.67	49081.063	2281.944	107.542	36.3	-63.7	NO	0.995	NO	bbX

Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.997660$

Calibration curve: $0.000615894 * x^2 + 1.25794 * x + -0.447176$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	1.250	6.32	190.467	20735.168	1.378	1.4	16.0	NO	0.998	NO	bb
2	2 171229M2_3	Standard	2.500	6.31	334.189	17093.148	2.933	2.7	7.3	NO	0.998	NO	bb
3	3 171229M2_4	Standard	5.000	6.31	700.139	18824.010	5.579	4.8	-4.4	NO	0.998	NO	bb
4	4 171229M2_5	Standard	10.000	6.31	1444.433	22545.748	9.610	8.0	-20.4	NO	0.998	NO	bb
5	5 171229M2_6	Standard	25.000	6.31	3471.863	17676.176	29.462	23.5	-6.0	NO	0.998	NO	bb
6	6 171229M2_7	Standard	50.000	6.32	7659.868	16652.568	68.997	53.8	7.6	NO	0.998	NO	bb
7	7 171229M2_8	Standard	250.000	6.31	35312.465	15055.310	351.827	249.6	-0.2	NO	0.998	NO	bd
8	8 171229M2_9	Standard	500.000	6.31	68630.867	19010.402	541.526	365.5	-26.9	NO	0.998	NO	bbX

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.998071$, $r^2 = 0.996146$

Calibration curve: $1.22487 * x + 0.0980341$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	1.250	6.46	162.695	17500.215	1.395	1.1	-15.3	NO	0.996	NO	bb
2	2 171229M2_3	Standard	2.500	6.46	450.188	20684.432	3.265	2.6	3.4	NO	0.996	NO	bb
3	3 171229M2_4	Standard	5.000	6.46	767.502	19115.492	6.023	4.8	-3.3	NO	0.996	NO	bb
4	4 171229M2_5	Standard	10.000	6.46	1577.034	19684.930	12.017	9.7	-2.7	NO	0.996	NO	bb
5	5 171229M2_6	Standard	25.000	6.46	4054.844	19050.596	31.927	26.0	3.9	NO	0.996	NO	bb
6	6 171229M2_7	Standard	50.000	6.46	8714.649	19081.916	68.505	55.8	11.7	NO	0.996	NO	bb
7	7 171229M2_8	Standard	250.000	6.46	45602.363	20876.885	327.652	267.4	7.0	NO	0.996	NO	bb
8	8 171229M2_9	Standard	500.000	6.46	85404.250	21955.451	583.483	476.3	-4.7	NO	0.996	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.783363

RRF SD: 0.0236111, Relative SD: 3.01407

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	1.40	8904.588	11498.604	9.680	12.4	-1.1	NO		NO	bb
2	2 171229M2_3	Standard	12.500	1.40	9984.899	12720.032	9.812	12.5	0.2	NO		NO	bb
3	3 171229M2_4	Standard	12.500	1.40	9468.932	12042.461	9.829	12.5	0.4	NO		NO	bb
4	4 171229M2_5	Standard	12.500	1.40	10485.881	13073.530	10.026	12.8	2.4	NO		NO	bb
5	5 171229M2_6	Standard	12.500	1.40	9617.440	12883.391	9.331	11.9	-4.7	NO		NO	bb
6	6 171229M2_7	Standard	12.500	1.40	10147.202	12893.346	9.838	12.6	0.5	NO		NO	bb
7	7 171229M2_8	Standard	12.500	1.40	10018.672	13149.171	9.524	12.2	-2.7	NO		NO	bb
8	8 171229M2_9	Standard	12.500	1.40	9449.357	11471.483	10.297	13.1	5.2	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.806685

RRF SD: 0.0738036, Relative SD: 9.149

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	2.35	10303.608	13026.970	9.887	12.3	-2.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	2.35	11963.811	14686.001	10.183	12.6	1.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	2.35	11397.529	13082.247	10.890	13.5	8.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	2.35	12774.396	13423.668	11.895	14.7	18.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	2.36	12100.899	15886.118	9.522	11.8	-5.6	NO		NO	bb
6	6 171229M2_7	Standard	12.500	2.35	12664.979	16032.948	9.874	12.2	-2.1	NO		NO	bb
7	7 171229M2_8	Standard	12.500	2.35	12439.228	16516.043	9.415	11.7	-6.6	NO		NO	bb
8	8 171229M2_9	Standard	12.500	2.36	11142.673	15471.245	9.003	11.2	-10.7	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.107987

RRF SD: 0.0112562, Relative SD: 10.4236

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	2.63	1558.021	13026.970	1.495	13.8	10.8	NO		NO	bb
2	2 171229M2_3	Standard	12.500	2.63	1616.337	14686.001	1.376	12.7	1.9	NO		NO	bb
3	3 171229M2_4	Standard	12.500	2.63	1539.314	13082.247	1.471	13.6	9.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	2.63	1659.784	13423.668	1.546	14.3	14.5	NO		NO	bb
5	5 171229M2_6	Standard	12.500	2.63	1591.105	15886.118	1.252	11.6	-7.3	NO		NO	bb
6	6 171229M2_7	Standard	12.500	2.63	1504.048	16032.948	1.173	10.9	-13.1	NO		NO	bb
7	7 171229M2_8	Standard	12.500	2.63	1627.218	16516.043	1.232	11.4	-8.8	NO		NO	bb
8	8 171229M2_9	Standard	12.500	2.63	1553.847	15471.245	1.255	11.6	-7.0	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.635783

RRF SD: 0.0486821, Relative SD: 7.65703

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	5.000	3.12	3513.841	13026.970	3.372	5.3	6.1	NO		NO	bb
2	2 171229M2_3	Standard	5.000	3.12	4036.555	14686.001	3.436	5.4	8.1	NO		NO	bb
3	3 171229M2_4	Standard	5.000	3.12	3698.728	13082.247	3.534	5.6	11.2	NO		NO	bb
4	4 171229M2_5	Standard	5.000	3.12	3464.033	13423.668	3.226	5.1	1.5	NO		NO	bb
5	5 171229M2_6	Standard	5.000	3.12	3759.616	15886.118	2.958	4.7	-6.9	NO		NO	bb
6	6 171229M2_7	Standard	5.000	3.12	3763.830	16032.948	2.934	4.6	-7.7	NO		NO	bb
7	7 171229M2_8	Standard	5.000	3.12	3933.006	16516.043	2.977	4.7	-6.4	NO		NO	bb
8	8 171229M2_9	Standard	5.000	3.12	3706.605	15471.245	2.995	4.7	-5.8	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.652191

RRF SD: 0.0649762, Relative SD: 9.96276

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	3.73	8907.467	13026.970	8.547	13.1	4.8	NO		NO	bb
2	2 171229M2_3	Standard	12.500	3.73	9815.644	14686.001	8.355	12.8	2.5	NO		NO	bb
3	3 171229M2_4	Standard	12.500	3.73	8838.820	13082.247	8.445	12.9	3.6	NO		NO	bb
4	4 171229M2_5	Standard	12.500	3.74	10366.868	13423.668	9.654	14.8	18.4	NO		NO	bb
5	5 171229M2_6	Standard	12.500	3.74	9360.222	15886.118	7.365	11.3	-9.7	NO		NO	bb
6	6 171229M2_7	Standard	12.500	3.74	10473.959	16032.948	8.166	12.5	0.2	NO		NO	bb
7	7 171229M2_8	Standard	12.500	3.74	9336.860	16516.043	7.067	10.8	-13.3	NO		NO	bb
8	8 171229M2_9	Standard	12.500	3.74	9432.322	15471.245	7.621	11.7	-6.5	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.320683

RRF SD: 0.0244918, Relative SD: 7.6374

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	12.500	3.88	1144.698	3848.441	3.718	11.6	-7.2	NO		NO	bb
2	2	171229M2_3	Standard	12.500	3.88	1280.945	4238.235	3.778	11.8	-5.8	NO		NO	bb
3	3	171229M2_4	Standard	12.500	3.88	1074.276	3181.425	4.221	13.2	5.3	NO		NO	bb
4	4	171229M2_5	Standard	12.500	3.89	1469.055	4267.268	4.303	13.4	7.4	NO		NO	bb
5	5	171229M2_6	Standard	12.500	3.88	1196.888	4034.508	3.708	11.6	-7.5	NO		NO	bb
6	6	171229M2_7	Standard	12.500	3.88	1407.185	3881.957	4.531	14.1	13.0	NO		NO	bb
7	7	171229M2_8	Standard	12.500	3.88	1247.672	4023.275	3.876	12.1	-3.3	NO		NO	bb
8	8	171229M2_9	Standard	12.500	3.88	1152.019	3662.087	3.932	12.3	-1.9	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.192047

RRF SD: 0.0252793, Relative SD: 13.1631

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	12.500	4.19	2316.373	15049.458	1.924	10.0	-19.9	NO		NO	bb
2	2	171229M2_3	Standard	12.500	4.19	2801.986	14379.889	2.436	12.7	1.5	NO		NO	bb
3	3	171229M2_4	Standard	12.500	4.19	2589.695	13387.784	2.418	12.6	0.7	NO		NO	bb
4	4	171229M2_5	Standard	12.500	4.19	2823.740	16520.527	2.137	11.1	-11.0	NO		NO	bb
5	5	171229M2_6	Standard	12.500	4.19	2811.475	15029.971	2.338	12.2	-2.6	NO		NO	bb
6	6	171229M2_7	Standard	12.500	4.19	3213.473	14938.239	2.689	14.0	12.0	NO		NO	bb
7	7	171229M2_8	Standard	12.500	4.19	3501.672	15289.608	2.863	14.9	19.3	NO		NO	bb
8	8	171229M2_9	Standard	12.500	4.19	4072.249	13438.497	3.788	19.7	57.8	NO		NO	bbX

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Compound name: 13C2-PFOA

Response Factor: 0.944504

RRF SD: 0.0477452, Relative SD: 5.05505

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.25	13054.395	15049.458	10.843	11.5	-8.2	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.24	14310.572	14379.889	12.440	13.2	5.4	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.25	12549.276	13387.784	11.717	12.4	-0.8	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.25	15995.349	16520.527	12.103	12.8	2.5	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.25	13236.790	15029.971	11.009	11.7	-6.8	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.25	14776.837	14938.239	12.365	13.1	4.7	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.25	14864.127	15289.608	12.152	12.9	2.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.25	12709.908	13438.497	11.822	12.5	0.1	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.832052

RRF SD: 0.0583635, Relative SD: 7.0144

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.68	9559.854	11482.184	10.407	12.5	0.1	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.68	11886.128	13994.057	10.617	12.8	2.1	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.68	10985.445	13520.063	10.157	12.2	-2.3	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.68	11245.406	11995.365	11.718	14.1	12.7	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.68	10698.335	12349.689	10.829	13.0	4.1	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.68	12722.333	15920.794	9.989	12.0	-4.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.68	10121.980	13803.214	9.166	11.0	-11.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.68	11035.840	13364.362	10.322	12.4	-0.8	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.203788

RRF SD: 0.0207952, Relative SD: 10.2043

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.74	2711.756	14815.704	2.288	11.2	-10.2	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.74	3102.326	16960.961	2.286	11.2	-10.2	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.74	3049.030	12370.712	3.081	15.1	20.9	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.74	3142.559	15033.304	2.613	12.8	2.6	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.74	2594.765	12111.065	2.678	13.1	5.1	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.74	2934.554	14405.790	2.546	12.5	-0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.74	2840.989	14131.721	2.513	12.3	-1.4	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.74	2854.235	15033.200	2.373	11.6	-6.8	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 0.947914

RRF SD: 0.0975277, Relative SD: 10.2887

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.76	3197.572	2998.679	13.329	14.1	12.5	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.76	3759.751	4122.135	11.401	12.0	-3.8	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.76	3437.048	3587.060	11.977	12.6	1.1	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.76	3679.354	3787.616	12.143	12.8	2.5	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.76	3383.786	3479.518	12.156	12.8	2.6	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.76	3618.413	3708.112	12.198	12.9	2.9	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.76	2972.808	4065.431	9.141	9.6	-22.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.76	3503.462	3518.380	12.447	13.1	5.0	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 0.986444

RRF SD: 0.1074, Relative SD: 10.8876

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.05	9787.770	10283.326	11.898	12.1	-3.5	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.04	13313.300	12978.949	12.822	13.0	4.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.04	11579.593	10780.415	13.427	13.6	8.9	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.05	10793.412	12463.213	10.825	11.0	-12.2	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.05	11236.213	11862.046	11.841	12.0	-4.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.05	12281.298	12524.826	12.257	12.4	-0.6	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.04	9060.415	10505.381	10.781	10.9	-12.6	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.04	10953.324	9254.415	14.795	15.0	20.0	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.124479

RRF SD: 0.019342, Relative SD: 15.5383

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.02	1831.227	13026.970	1.757	14.1	12.9	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.02	1424.288	14686.001	1.212	9.7	-22.1	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.02	2009.474	13082.247	1.920	15.4	23.4	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.02	1798.888	13423.668	1.675	13.5	7.7	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.02	1757.374	15886.118	1.383	11.1	-11.1	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.02	1922.256	16032.948	1.499	12.0	-3.7	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.02	1910.405	16516.043	1.446	11.6	-7.1	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.02	3035.175	15471.245	2.452	19.7	57.6	NO		NO	bbX

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Compound name: d3-N-MeFOSAA

Response Factor: 0.391119

RRF SD: 0.0414808, Relative SD: 10.6057

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.19	5085.497	14815.704	4.291	11.0	-12.2	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.19	6075.852	16960.961	4.478	11.4	-8.4	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.19	5465.513	12370.712	5.523	14.1	13.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.19	6024.812	15033.304	5.010	12.8	2.5	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.19	5469.510	12111.065	5.645	14.4	15.5	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.20	5362.439	14405.790	4.653	11.9	-4.8	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.19	5797.623	14131.721	5.128	13.1	4.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.20	5273.478	15033.200	4.385	11.2	-10.3	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.451227

RRF SD: 0.0587445, Relative SD: 13.0188

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.35	6335.104	14815.704	5.345	11.8	-5.2	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.34	6832.871	16960.961	5.036	11.2	-10.7	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.35	6085.677	12370.712	6.149	13.6	9.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.35	6995.571	15033.304	5.817	12.9	3.1	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.35	6601.813	12111.065	6.814	15.1	20.8	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.35	7053.357	14405.790	6.120	13.6	8.5	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.35	6062.098	14131.721	5.362	11.9	-4.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.35	5387.725	15033.200	4.480	9.9	-20.6	NO		NO	bb

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Compound name: 13C2-PFUDa

Response Factor: 0.900459

RRF SD: 0.0859834, Relative SD: 9.54884

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.37	12200.924	14815.704	10.294	11.4	-8.5	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.36	13014.458	16960.961	9.591	10.7	-14.8	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.36	11054.450	12370.712	11.170	12.4	-0.8	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.36	13105.806	15033.304	10.897	12.1	-3.2	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.36	12129.378	12111.065	12.519	13.9	11.2	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.37	14621.663	14405.790	12.687	14.1	12.7	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.36	12349.849	14131.721	10.924	12.1	-2.9	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.37	14387.557	15033.200	11.963	13.3	6.3	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.616744

RRF SD: 0.0977312, Relative SD: 15.8463

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.64	8043.755	14815.704	6.787	11.0	-12.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.65	9002.822	16960.961	6.635	10.8	-13.9	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.65	9574.130	12370.712	9.674	15.7	25.5	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.65	8821.307	15033.304	7.335	11.9	-4.9	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.65	8400.495	12111.065	8.670	14.1	12.5	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.65	9958.397	14405.790	8.641	14.0	12.1	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.65	8869.276	14131.721	7.845	12.7	1.8	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.65	7321.213	15033.200	6.088	9.9	-21.0	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.0974499

RRF SD: 0.0110792, Relative SD: 11.3691

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	150.000	5.81	15269.275	14815.704	12.883	132.2	-11.9	NO		NO	bb
2	2 171229M2_3	Standard	150.000	5.81	16568.037	16960.961	12.210	125.3	-16.5	NO		NO	bb
3	3 171229M2_4	Standard	150.000	5.81	16161.567	12370.712	16.330	167.6	11.7	NO		NO	bb
4	4 171229M2_5	Standard	150.000	5.81	17375.629	15033.304	14.448	148.3	-1.2	NO		NO	bb
5	5 171229M2_6	Standard	150.000	5.81	16523.939	12111.065	17.055	175.0	16.7	NO		NO	bb
6	6 171229M2_7	Standard	150.000	5.81	17052.381	14405.790	14.796	151.8	1.2	NO		NO	bb
7	7 171229M2_8	Standard	150.000	5.81	17525.244	14131.721	15.502	159.1	6.0	NO		NO	bd
8	8 171229M2_9	Standard	150.000	5.81	16495.586	15033.200	13.716	140.7	-6.2	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.195861

RRF SD: 0.02266, Relative SD: 11.5694

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	6.11	2829.090	14815.704	2.387	12.2	-2.5	NO		NO	bb
2	2 171229M2_3	Standard	12.500	6.11	2958.684	16960.961	2.181	11.1	-10.9	NO		NO	bb
3	3 171229M2_4	Standard	12.500	6.11	2615.306	12370.712	2.643	13.5	7.9	NO		NO	bb
4	4 171229M2_5	Standard	12.500	6.11	3232.627	15033.304	2.688	13.7	9.8	NO		NO	bb
5	5 171229M2_6	Standard	12.500	6.11	2664.266	12111.065	2.750	14.0	12.3	NO		NO	bb
6	6 171229M2_7	Standard	12.500	6.11	2219.846	14405.790	1.926	9.8	-21.3	NO		NO	bb
7	7 171229M2_8	Standard	12.500	6.11	2718.020	14131.721	2.404	12.3	-1.8	NO		NO	bb
8	8 171229M2_9	Standard	12.500	6.11	3136.443	15033.200	2.608	13.3	6.5	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.146639

RRF SD: 0.0168881, Relative SD: 11.5168

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	150.000	6.19	23839.549	14815.704	20.113	137.2	-8.6	NO		NO	bb
2	2 171229M2_3	Standard	150.000	6.19	26388.232	16960.961	19.448	132.6	-11.6	NO		NO	bb
3	3 171229M2_4	Standard	150.000	6.20	24893.941	12370.712	25.154	171.5	14.4	NO		NO	bb
4	4 171229M2_5	Standard	150.000	6.20	26004.342	15033.304	21.622	147.5	-1.7	NO		NO	bb
5	5 171229M2_6	Standard	150.000	6.20	25204.795	12111.065	26.014	177.4	18.3	NO		NO	bb
6	6 171229M2_7	Standard	150.000	6.20	25237.131	14405.790	21.898	149.3	-0.4	NO		NO	bb
7	7 171229M2_8	Standard	150.000	6.20	25543.053	14131.721	22.594	154.1	2.7	NO		NO	bb
8	8 171229M2_9	Standard	150.000	6.20	22997.896	15033.200	19.123	130.4	-13.1	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.434796

RRF SD: 0.0591757, Relative SD: 13.61

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	5.000	6.44	2686.105	14815.704	2.266	5.2	4.2	NO		NO	bb
2	2 171229M2_3	Standard	5.000	6.44	2563.167	16960.961	1.889	4.3	-13.1	NO		NO	bb
3	3 171229M2_4	Standard	5.000	6.44	2352.455	12370.712	2.377	5.5	9.3	NO		NO	bb
4	4 171229M2_5	Standard	5.000	6.44	2540.338	15033.304	2.112	4.9	-2.8	NO		NO	bb
5	5 171229M2_6	Standard	5.000	6.44	2528.023	12111.065	2.609	6.0	20.0	NO		NO	bb
6	6 171229M2_7	Standard	5.000	6.44	2073.382	14405.790	1.799	4.1	-17.2	NO		NO	bb
7	7 171229M2_8	Standard	5.000	6.44	2760.265	14131.721	2.442	5.6	12.3	NO		NO	bb
8	8 171229M2_9	Standard	5.000	6.44	2281.944	15033.200	1.897	4.4	-12.7	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.108064

RRF SD: 0.0168658, Relative SD: 15.6073

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	150.000	6.31	20735.168	14815.704	17.494	161.9	7.9	NO		NO	bb
2	2	171229M2_3	Standard	150.000	6.31	17093.148	16960.961	12.597	116.6	-22.3	NO		NO	bd
3	3	171229M2_4	Standard	150.000	6.31	18824.010	12370.712	19.021	176.0	17.3	NO		NO	bb
4	4	171229M2_5	Standard	150.000	6.31	22545.748	15033.304	18.747	173.5	15.7	NO		NO	bb
5	5	171229M2_6	Standard	150.000	6.31	17676.176	12111.065	18.244	168.8	12.6	NO		NO	bb
6	6	171229M2_7	Standard	150.000	6.31	16652.568	14405.790	14.450	133.7	-10.9	NO		NO	bb
7	7	171229M2_8	Standard	150.000	6.31	15055.310	14131.721	13.317	123.2	-17.8	NO		NO	bb
8	8	171229M2_9	Standard	150.000	6.30	19010.402	15033.200	15.807	146.3	-2.5	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.115528

RRF SD: 0.0123398, Relative SD: 10.6812

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1	171229M2_2	Standard	150.000	6.46	17500.215	14815.704	14.765	127.8	-14.8	NO		NO	bb
2	2	171229M2_3	Standard	150.000	6.46	20684.432	16960.961	15.244	132.0	-12.0	NO		NO	bb
3	3	171229M2_4	Standard	150.000	6.46	19115.492	12370.712	19.315	167.2	11.5	NO		NO	bb
4	4	171229M2_5	Standard	150.000	6.46	19684.930	15033.304	16.368	141.7	-5.5	NO		NO	bb
5	5	171229M2_6	Standard	150.000	6.46	19050.596	12111.065	19.662	170.2	13.5	NO		NO	bb
6	6	171229M2_7	Standard	150.000	6.46	19081.916	14405.790	16.558	143.3	-4.5	NO		NO	bd
7	7	171229M2_8	Standard	150.000	6.46	20876.885	14131.721	18.466	159.8	6.6	NO		NO	bb
8	8	171229M2_9	Standard	150.000	6.46	21955.451	15033.200	18.256	158.0	5.3	NO		NO	bb

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	1.40	11498.604	11498.604	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	1.40	12720.032	12720.032	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	1.40	12042.461	12042.461	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	1.40	13073.530	13073.530	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	1.40	12883.391	12883.391	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	1.40	12893.346	12893.346	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	1.40	13149.171	13149.171	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	1.40	11471.483	11471.483	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	3.12	13026.970	13026.970	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	3.12	14686.001	14686.001	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	3.12	13082.247	13082.247	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	3.12	13423.668	13423.668	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	3.12	15886.118	15886.118	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	3.12	16032.948	16032.948	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	3.12	16516.043	16516.043	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	3.12	15471.245	15471.245	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	3.88	3848.441	3848.441	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	3.88	4238.235	4238.235	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	3.88	3181.425	3181.425	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	3.88	4267.268	4267.268	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	3.88	4034.508	4034.508	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	3.88	3881.957	3881.957	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	3.88	4023.275	4023.275	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	3.88	3662.087	3662.087	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.25	15049.458	15049.458	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.25	14379.889	14379.889	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.25	13387.784	13387.784	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.25	16520.527	16520.527	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.25	15029.971	15029.971	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.25	14938.239	14938.239	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.25	15289.608	15289.608	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.25	13438.497	13438.497	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.68	11482.184	11482.184	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.68	13994.057	13994.057	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.68	13520.063	13520.063	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.68	11995.365	11995.365	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.68	12349.689	12349.689	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.68	15920.794	15920.794	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.68	13803.214	13803.214	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.68	13364.362	13364.362	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	4.76	2998.679	2998.679	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	4.76	4122.135	4122.135	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	4.76	3587.060	3587.060	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	4.76	3787.616	3787.616	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	4.76	3479.518	3479.518	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	4.76	3708.112	3708.112	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	4.76	4065.431	4065.431	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	4.76	3518.380	3518.380	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171229M2\171229M2-CRV.qld

Last Altered: Friday, December 29, 2017 16:04:07 Pacific Standard Time

Printed: Friday, December 29, 2017 16:06:54 Pacific Standard Time

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.04	10283.326	10283.326	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.04	12978.949	12978.949	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.04	10780.415	10780.415	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.05	12463.213	12463.213	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.04	11862.046	11862.046	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.04	12524.826	12524.826	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.04	10505.381	10505.381	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.05	9254.415	9254.415	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 171229M2_2	Standard	12.500	5.37	14815.704	14815.704	12.500	12.5	0.0	NO		NO	bb
2	2 171229M2_3	Standard	12.500	5.37	16960.961	16960.961	12.500	12.5	0.0	NO		NO	bb
3	3 171229M2_4	Standard	12.500	5.37	12370.712	12370.712	12.500	12.5	0.0	NO		NO	bb
4	4 171229M2_5	Standard	12.500	5.37	15033.304	15033.304	12.500	12.5	0.0	NO		NO	bb
5	5 171229M2_6	Standard	12.500	5.37	12111.065	12111.065	12.500	12.5	0.0	NO		NO	bb
6	6 171229M2_7	Standard	12.500	5.37	14405.790	14405.790	12.500	12.5	0.0	NO		NO	bb
7	7 171229M2_8	Standard	12.500	5.37	14131.721	14131.721	12.500	12.5	0.0	NO		NO	bb
8	8 171229M2_9	Standard	12.500	5.37	15033.200	15033.200	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\171229M2\171229M2-CRV.qld

Last Altered: Friday, December 29, 2017 16:04:07 Pacific Standard Time

Printed: Friday, December 29, 2017 16:06:54 Pacific Standard Time

Name: 171229M2_9, Date: 29-Dec-2017, Time: 14:49:59, ID: ST171229M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

	# Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9993	NO	
2	2 PFPeA	0.9994	NO	
3	3 PFBS	0.9990	NO	
4	4 PFHxA	0.9988	NO	
5	5 PFHpA	0.9989	NO	
6	6 L-PFHxS	0.9991	NO	
7	8 6:2 FTS	0.9951	NO	
8	9 L-PFOA	0.9985	NO	
9	11 PFHpS	0.9969	NO	
10	12 PFNA	0.9980	NO	
11	13 PFOSA	0.9993	NO	
12	14 L-PFOS	0.9904	NO	
13	16 PFDA	0.9987	NO	
14	17 8:2 FTS	0.9987	NO	
15	18 N-MeFOSAA	0.9986	NO	
16	19 N-EtFOSAA	0.9996	NO	
17	20 PFUdA	0.9992	NO	
18	21 PFDS	0.9997	NO	
19	22 PFDoA	0.9997	NO	
20	23 N-MeFOSA	0.9992	NO	
21	24 PFTTrDA	0.9941	NO	
22	25 PFTeDA	0.9921	NO	
23	26 N-EtFOSA	0.9994	NO	
24	27 PFHxDA	0.9990	NO	
25	28 PFODA	0.9955	NO	
26	29 N-MeFOSE	0.9977	NO	
27	30 N-EtFOSE	0.9961	NO	
28	31 13C3-PFBA		NO	3.014
29	32 13C3-PFPeA		NO	9.149
30	33 13C3-PFBS		NO	10.424
31	34 13C2-PFHxA		NO	7.657
32	35 13C4-PFHpA		NO	9.963
33	36 18O2-PFHxS		NO	7.637
34	37 13C2-6:2 FTS		NO	13.163

Dataset: U:\Q4.PRO\results\171229M2\171229M2-CRV.qld

Last Altered: Friday, December 29, 2017 16:04:07 Pacific Standard Time

Printed: Friday, December 29, 2017 16:06:54 Pacific Standard Time

Name: 171229M2_9, Date: 29-Dec-2017, Time: 14:49:59, ID: ST171229M2-8 PFC CS5 17L2613, Description: PFC CS5 17L2613

	# Name	CoD	CoD Flag	%RSD
35	38 13C2-PFOA		NO	5.055
36	39 13C5-PFNA		NO	7.014
37	40 13C8-PFOSA		NO	10.204
38	41 13C8-PFOS		NO	10.289
39	42 13C2-PFDA		NO	10.888
40	43 13C2-8:2 FTS		NO	15.538
41	44 d3-N-MeFOSAA		NO	10.606
42	45 d5-N-EtFOSAA		NO	13.019
43	46 13C2-PFUDa		NO	9.549
44	47 13C2-PFDoA		NO	15.846
45	48 d3-N-MeFOSA		NO	11.369
46	49 13C2-PFTeDA		NO	11.569
47	50 d5-N-ETFOSA		NO	11.517
48	51 13C2-PFHxDA		NO	13.610
49	52 d7-N-MeFOSE		NO	15.607
50	53 d9-N-EtFOSE		NO	10.681
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUDa		NO	0.000

Dataset: Untitled

Last Altered: Friday, December 29, 2017 16:11:21 Pacific Standard Time

Printed: Friday, December 29, 2017 16:14:12 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 29 Dec 2017 15:16:53

Calibration: U:\Q4.PRO\CurveDB\IC18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171229M2_1	IPA	29-Dec-17	13:20:29
2	171229M2_2	ST171229M2-1 PFC CS-2 17L2606	29-Dec-17	13:31:42
3	171229M2_3	ST171229M2-2 PFC CS-1 17L2607	29-Dec-17	13:42:53
4	171229M2_4	ST171229M2-3 PFC CS0 17L2608	29-Dec-17	13:54:04
5	171229M2_5	ST171229M2-4 PFC CS1 17L2609	29-Dec-17	14:05:15
6	171229M2_6	ST171229M2-5 PFC CS2 17L2610	29-Dec-17	14:16:26
7	171229M2_7	ST171229M2-6 PFC CS3 17L2611	29-Dec-17	14:27:38
8	171229M2_8	ST171229M2-7 PFC CS4 17L2612	29-Dec-17	14:38:48
9	171229M2_9	ST171229M2-8 PFC CS5 17L2613	29-Dec-17	14:49:59
10	171229M2_10	ST171229M2-9 PFC CS6 17L2710	29-Dec-17	15:01:10
11	171229M2_11	ST171229M2-10 PFC CS7 17L1804	29-Dec-17	15:12:20
12	171229M2_12	IPA	29-Dec-17	15:23:31
13	171229M2_13	ICV171229M2-1 PFC ICV 17L2907	29-Dec-17	15:34:42
14	171229M2_14	ICV171229M2-2 PFC ICV 17L1201	29-Dec-17	15:54:47
15	171229M2_15	IPA		

Ⓐ possible formulation error, used older SS.

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12/29/17

Dataset: U:\Q4.PRO\results\171229M2\171229M2-14.qld

Ⓐ No SS available.

Last Altered: Friday, December 29, 2017 16:10:03 Pacific Standard Time

Printed: Friday, December 29, 2017 16:10:34 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 29 Dec 2017 15:16:53

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Name: 171229M2_14, Date: 29-Dec-2017, Time: 15:54:47, ID: ICV171229M2-2 PFC ICV 17L1201, Description: PFC ICV 17L1201

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12/29/17
✓ 12/30/2017

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.10e4	1.11e4	1.0000		1.47	1.41	12.4	9.096	91.0
2	2 PFPeA	263.1 > 218.9	1.15e4	1.33e4	1.0000		2.35	2.34	10.7	9.012	90.1
3	3 PFBS	299.0 > 79.7	2.33e3	1.87e3	1.0000		2.70	2.62	15.6	7.234	72.3
4	4 PFHxA	313.2 > 268.9	1.43e4	4.43e3	1.0000		3.12	3.12	16.2	8.656	86.6
5	5 PFHpA	363.0 > 318.9	1.18e4	1.18e4	1.0000		3.75	3.73	12.5	7.948	79.5
6	6 L-PFHxS	398.9 > 79.6	1.76e3	1.34e3	1.0000		3.85	3.88	16.5	7.782	77.8
7	8 6:2 FTS	427.1 > 407	2.92e3	1.55e4	1.0000		4.20	4.19	2.35	9.502	95.0
8	9 L-PFOA	413 > 368.7	1.26e4	1.55e4	1.0000		4.25	4.24	10.2	8.343	83.4
9	11 PFHpS	449 > 80.0	2.75e3	1.55e4	1.0000		4.35	4.35	2.22	8.862	88.6
10	12 PFNA	463.0 > 418.8	1.35e4	1.39e4	1.0000		4.70	4.68	12.2	7.836	78.4
11	13 PFOSA	498.1 > 77.8	3.29e3	3.47e3	1.0000		4.81	4.74	11.9	8.918	89.2
12	14 L-PFOS	499 > 79.9	3.02e3	3.75e3	1.0000		4.75	4.76	10.1	7.552	75.5
13	16 PFDA	513 > 468.8	1.46e4	1.50e4	1.0000		5.05	5.04	12.2	8.126	81.3
14	17 8:2 FTS	527 > 506.9	3.58e3	1.50e4	1.0000		5.02	5.01	2.99	9.704	97.0
15	18 N-MeFOSAA	570.1 > 419	7.78e3	5.75e3	1.0000		5.20	5.19	16.9	10.158	101.6
16	19 N-EtFOSAA	584.2 > 419	6.67e3	7.14e3	1.0000		5.42	5.35	11.7	8.765	87.6
17	20 PFUdA	563.0 > 518.9	1.36e4	1.68e4	1.0000		5.35	5.36	10.1	8.257	82.6
18	21 PFDS	598.8 > 80	3.62e3	1.68e4	1.0000		5.50	5.41	2.69	7.609	76.1
19	22 PFDaA	612.9 > 569.0	1.46e4	1.22e4	1.0000		5.70	5.64	14.9	7.029	70.3
20	23 N-MeFOSA	512.1 > 168.9		1.85e4	1.0000		5.77				Ⓐ 87.7
21	24 PFTrDA	662.9 > 618.9	1.50e4	1.22e4	1.0000		5.95	5.89	15.3	8.772	87.7
22	25 PFTeDA	712.9 > 668.8	9.12e3	4.47e3	1.0000		6.16	6.11	25.5	7.569	75.7
23	26 N-EtFOSA	526.1 > 168.9		2.71e4	1.0000		6.15				Ⓐ 75.7
24	27 PFHxDA	813.1 > 768.6		3.00e3	1.0000		6.48				
25	28 PFODA	913.1 > 868.8		3.00e3	1.0000		6.70				
26	29 N-MeFOSE	616.1 > 58.9		2.36e4	1.0000		6.30				
27	30 N-EtFOSE	630.1 > 58.9		2.02e4	1.0000		6.42				
28	31 13C3-PFBA	216.1 > 171.8	1.11e4	1.24e4	1.0000	0.783	1.47	1.41	11.2	14.247	114.0
29	32 13C3-PFPeA	266. > 221.8	1.33e4	1.56e4	1.0000	0.807	2.44	2.34	10.7	13.218	105.7
30	33 13C3-PFBS	302. > 98.8	1.87e3	1.56e4	1.0000	0.108	2.70	2.62	1.49	13.836	110.7
31	34 13C3-PFHxA	315 > 269.8	4.43e3	1.56e4	1.0000	0.636	3.20	3.12	3.54	5.563	111.3

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Work Order 171229M2

Dataset: U:\Q4.PRO\results\171229M2\171229M2-14.qld

Last Altered: Friday, December 29, 2017 16:10:03 Pacific Standard Time

Printed: Friday, December 29, 2017 16:10:34 Pacific Standard Time

Name: 171229M2_14, Date: 29-Dec-2017, Time: 15:54:47, ID: ICV171229M2-2 PFC ICV 17L1201, Description: PFC ICV 17L1201

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.18e4	1.56e4	1.0000	0.652	3.80	3.73	9.45	14.492	115.9
33	36 18O2-PFHxS	403.0 > 102.6	1.34e3	3.38e3	1.0000	0.321	3.95	3.88	4.95	15.442	123.5
34	37 13C2-6:2 FTS	429.1 > 408.9	3.58e3	1.44e4	1.0000	0.192	4.26	4.19	3.10	16.139	129.1
35	38 13C2-PFOA	414.9 > 369.7	1.55e4	1.44e4	1.0000	0.945	4.32	4.24	13.4	14.215	113.7
36	39 13C5-PFNA	468.2 > 422.9	1.39e4	1.26e4	1.0000	0.832	4.75	4.67	13.8	16.588	132.7
37	40 13C8-PFOSA	506.1 > 77.7	3.47e3	1.37e4	1.0000	0.204	4.81	4.74	3.15	15.470	123.8
38	41 13C8-PFOS	507.0 > 79.9	3.75e3	3.55e3	1.0000	0.948	4.83	4.76	13.2	13.934	111.5
39	42 13C2-PFDA	515.1 > 469.9	1.50e4	1.34e4	1.0000	0.986	5.11	5.04	13.9	14.119	112.9
40	43 13C2-8:2 FTS	529.1 > 508.7	2.41e3	1.56e4	1.0000	0.124	5.09	5.01	1.93	15.476	123.8
41	44 d3-N-MeFOSAA	573.3 > 419	5.75e3	1.37e4	1.0000	0.391	5.26	5.19	5.23	13.377	107.0
42	45 d5-N-EtFOSAA	589.3 > 419	7.14e3	1.37e4	1.0000	0.451	5.42	5.34	6.49	14.381	115.0
43	46 13C2-PFUdA	565 > 519.8	1.68e4	1.37e4	1.0000	0.900	5.43	5.36	15.3	16.966	135.7
44	47 13C2-PFDaA	615.0 > 569.7	1.22e4	1.37e4	1.0000	0.617	5.70	5.64	11.1	18.058	144.5
45	48 d3-N-MeFOSA	515.2 > 168.9	1.85e4	1.37e4	1.0000	0.097	5.80	5.81	16.8	172.209	114.8
46	49 13C2-PFTeDA	714.8 > 669.6	4.47e3	1.37e4	1.0000	0.196	6.16	6.11	4.07	20.760	166.1
47	50 d5-N-ETFOSA	531.1 > 168.9	2.71e4	1.37e4	1.0000	0.147	6.16	6.19	24.6	167.987	112.0
48	51 13C2-PFHxDA	815 > 769.7	3.00e3	1.37e4	1.0000	0.435	6.48	6.44	2.73	6.269	125.4
49	52 d7-N-MeFOSE	623.1 > 58.9	2.36e4	1.37e4	1.0000	0.108	6.30	6.31	21.5	198.590	132.4
50	53 d9-N-EtFOSE	639.2 > 58.8	2.02e4	1.37e4	1.0000	0.116	6.42	6.45	18.4	158.938	106.0
51	54 13C4-PFBA	217. > 171.8	1.24e4	1.24e4	1.0000	1.000	1.47	1.41	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.56e4	1.56e4	1.0000	1.000	3.20	3.12	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.38e3	3.38e3	1.0000	1.000	3.95	3.88	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.44e4	1.44e4	1.0000	1.000	4.32	4.24	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.26e4	1.26e4	1.0000	1.000	4.75	4.67	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.55e3	3.55e3	1.0000	1.000	4.83	4.75	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.34e4	1.34e4	1.0000	1.000	5.11	5.04	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.37e4	1.37e4	1.0000	1.000	5.43	5.37	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 11:12:59 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:15:10 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Compound name: PFBA

Correlation coefficient: $r = 0.999791$, $r^2 = 0.999582$

Calibration curve: $1.41407 * x + -0.110571$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

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	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	1.32	133.430	7679.443	0.217	0.2	-7.3	NO	1.000	NO	MM
2	2 180102M2_3	Standard	0.500	1.33	316.689	7379.304	0.536	0.5	-8.5	NO	1.000	NO	MM
3	3 180102M2_4	Standard	1.000	1.34	736.662	7688.878	1.198	0.9	-7.5	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	1.33	1599.927	7962.546	2.512	1.9	-7.3	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	1.33	4627.116	8693.651	6.653	4.8	-4.3	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	1.33	9158.581	7877.662	14.533	10.4	3.6	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	1.33	43935.418	7793.737	70.466	49.9	-0.2	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	1.33	90157.727	7957.421	141.625	100.2	0.2	NO	1.000	NO	bb

Compound name: PFPeA

Correlation coefficient: $r = 0.999811$, $r^2 = 0.999622$

Calibration curve: $1.24942 * x + -0.05615$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	2.29	195.129	8771.149	0.278	0.3	7.0	NO	1.000	NO	MM
2	2 180102M2_3	Standard	0.500	2.29	418.951	8708.200	0.601	0.5	5.3	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	2.29	856.387	9069.425	1.180	1.0	-1.0	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	2.29	1652.619	9109.592	2.268	1.9	-7.0	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	2.30	4810.782	10001.896	6.012	4.9	-2.9	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	2.30	8845.332	9179.234	12.045	9.7	-3.1	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	2.30	45689.668	8932.026	63.941	51.2	2.4	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	2.30	89158.703	8983.092	124.065	99.3	-0.7	NO	1.000	NO	bb

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Compound name: PFBS

Correlation coefficient: $r = 0.999631$, $r^2 = 0.999262$

Calibration curve: $2.21075 * x + -0.178043$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	2.58	45.008	1181.301	0.476	0.3	18.4	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	2.57	85.371	1141.135	0.935	0.5	0.7	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	2.58	181.124	1152.078	1.965	1.0	-3.1	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	2.58	360.275	1269.738	3.547	1.7	-15.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	2.58	1095.079	1301.825	10.515	4.8	-3.3	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	2.58	2190.513	1233.457	22.199	10.1	1.2	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	2.58	10565.378	1163.406	113.518	51.4	2.9	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	2.58	20015.322	1145.117	218.486	98.9	-1.1	NO	0.999	NO	bb

Compound name: PFHxA

Correlation coefficient: $r = 0.999826$, $r^2 = 0.999652$

Calibration curve: $1.87024 * x + -0.00601342$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	3.07	277.833	2786.930	0.498	0.3	7.9	NO	1.000	NO	bb
2	2 180102M2_3	Standard	0.500	3.07	518.870	2774.891	0.935	0.5	0.6	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	3.07	1015.502	2891.223	1.756	0.9	-5.8	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	3.07	1912.217	2818.971	3.392	1.8	-9.2	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	3.07	6170.946	3243.789	9.512	5.1	1.8	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	3.07	10937.149	2801.342	19.521	10.4	4.4	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	3.07	50017.852	2645.966	94.517	50.5	1.1	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	3.07	108583.602	2927.999	185.423	99.1	-0.9	NO	1.000	NO	bb

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Compound name: PFHpACorrelation coefficient: $r = 0.999512$, $r^2 = 0.999024$ Calibration curve: $1.60481 * x + -0.093655$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	3.69	187.645	7535.956	0.311	0.3	0.9	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	3.69	339.072	6210.619	0.682	0.5	-3.3	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	3.68	816.133	7248.519	1.407	0.9	-6.5	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	3.68	1862.432	7337.285	3.173	2.0	1.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	3.69	5258.148	8242.492	7.974	5.0	0.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	3.69	10093.437	7242.242	17.421	10.9	9.1	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	3.69	44724.414	7227.423	77.352	48.3	-3.5	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	3.69	88920.313	6872.139	161.741	100.8	0.8	NO	0.999	NO	bb

Compound name: L-PFHxSCorrelation coefficient: $r = 0.999178$, $r^2 = 0.998357$ Calibration curve: $1.9979 * x + -0.0316488$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	3.83	35.877	876.585	0.512	0.3	8.8	NO	0.998	NO	MM
2	2 180102M2_3	Standard	0.500	3.83	59.717	975.615	0.765	0.4	-20.2	NO	0.998	NO	MM
3	3 180102M2_4	Standard	1.000	3.84	151.775	980.415	1.935	1.0	-1.6	NO	0.998	NO	MM
4	4 180102M2_5	Standard	2.000	3.84	324.389	935.565	4.334	2.2	9.3	NO	0.998	NO	MM
5	5 180102M2_6	Standard	5.000	3.84	904.931	1187.076	9.529	4.8	-4.3	NO	0.998	NO	MM
6	6 180102M2_7	Standard	10.000	3.84	1826.527	1076.210	21.215	10.6	6.3	NO	0.998	NO	MM
7	7 180102M2_8	Standard	50.000	3.84	8250.046	988.496	104.326	52.2	4.5	NO	0.998	NO	MM
8	8 180102M2_9	Standard	100.000	3.84	15698.343	1010.053	194.276	97.3	-2.7	NO	0.998	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999391$

Calibration curve: $0.000388154 * x^2 + 0.304544 * x + -0.033568$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.16	46.499	10253.480	0.057	0.3	18.5	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.16	85.017	11050.722	0.096	0.4	-14.8	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.15	248.949	11297.149	0.275	1.0	1.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.15	475.032	11350.530	0.523	1.8	-8.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.16	1402.688	11281.333	1.554	5.2	3.6	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.15	2855.455	11669.804	3.059	10.0	0.3	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.15	13225.257	10230.492	16.159	50.0	-0.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.15	25190.375	10901.502	28.884	85.6	-14.4	NO	0.999	NO	bbX

Compound name: L-PFOA

Coefficient of Determination: $R^2 = 0.999271$

Calibration curve: $-0.000103873 * x^2 + 1.25172 * x + 0.219686$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.21	504.171	10253.480	0.615	0.3	26.2	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.21	731.494	11050.722	0.827	0.5	-2.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.21	1202.276	11297.149	1.330	0.9	-11.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.21	2295.707	11350.530	2.528	1.8	-7.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.21	5753.975	11281.333	6.376	4.9	-1.6	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.21	11303.767	11669.804	12.108	9.5	-5.0	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.21	52693.516	10230.492	64.383	51.5	3.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.21	107713.055	10901.502	123.507	99.3	-0.7	NO	0.999	NO	bb

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Compound name: PFHpSCoefficient of Determination: $R^2 = 0.997002$ Calibration curve: $-0.000453199 * x^2 + 0.312955 * x + -0.0835439$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.32	60.548	10253.480	0.074	0.5	101.3	NO	0.997	NO	bbX
2	2 180102M2_3	Standard	0.500	4.32	97.532	11050.722	0.110	0.6	24.0	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	4.32	207.092	11297.149	0.229	1.0	0.1	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	4.32	437.136	11350.530	0.481	1.8	-9.5	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	4.32	1207.311	11281.333	1.338	4.6	-8.6	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	4.32	2494.892	11669.804	2.672	8.9	-10.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	4.32	12533.765	10230.492	15.314	53.3	6.6	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	4.32	22918.361	10901.502	26.279	98.2	-1.8	NO	0.997	NO	bb

Compound name: PFNACoefficient of Determination: $R^2 = 0.998828$ Calibration curve: $-0.0026515 * x^2 + 1.47025 * x + -0.0610636$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.65	169.052	8691.937	0.243	0.2	-17.2	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	4.65	432.718	7683.161	0.704	0.5	4.2	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.65	901.739	7595.522	1.484	1.1	5.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.65	1783.958	9038.605	2.467	1.7	-13.8	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.65	6637.959	10988.831	7.551	5.2	4.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.65	9878.730	8553.649	14.436	10.0	0.4	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.65	52029.359	9737.121	66.793	50.0	-0.1	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.65	108784.531	8681.578	156.631	143.9	43.9	NO	0.999	NO	bbX

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Compound name: PFOSA

Correlation coefficient: $r = 0.999523$, $r^2 = 0.999047$

Calibration curve: $1.3556 * x + -0.0180652$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.71	102.892	3084.802	0.417	0.3	28.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	4.71	143.012	2870.135	0.623	0.5	-5.4	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.71	260.685	3118.891	1.045	0.8	-21.6	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.71	637.889	3245.851	2.457	1.8	-8.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.71	1699.651	3144.589	6.756	5.0	-0.1	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.71	3065.491	2639.988	14.515	10.7	7.2	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.71	15233.161	2775.264	68.611	50.6	1.3	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.71	34198.551	3185.676	134.189	99.0	-1.0	NO	0.999	NO	bb

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.999016$

Calibration curve: $0.00240525 * x^2 + 0.993312 * x + 0.0576985$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.73	45.392	1962.993	0.289	0.2	-6.9	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	4.73	115.118	2365.519	0.608	0.6	10.7	NO	0.999	NO	MM
3	3 180102M2_4	Standard	1.000	4.73	220.888	2404.826	1.148	1.1	9.5	NO	0.999	NO	MM
4	4 180102M2_5	Standard	2.000	4.73	449.043	2701.989	2.077	2.0	1.2	NO	0.999	NO	MM
5	5 180102M2_6	Standard	5.000	4.73	1249.128	2982.788	5.235	5.1	3.0	NO	0.999	NO	MM
6	6 180102M2_7	Standard	10.000	4.73	2587.916	2905.263	11.135	10.9	8.7	NO	0.999	NO	MM
7	7 180102M2_8	Standard	50.000	4.73	10285.645	2402.318	53.519	48.2	-3.6	NO	0.999	NO	MM
8	8 180102M2_9	Standard	100.000	4.73	27177.135	2729.716	124.450	100.7	0.7	NO	0.999	NO	MM

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Compound name: PFDA

Coefficient of Determination: $R^2 = 0.996665$

Calibration curve: $-0.00380311 * x^2 + 1.68255 * x + -0.179654$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.02	188.776	9409.795	0.251	0.3	2.4	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	5.02	434.026	6177.648	0.878	0.6	25.9	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	5.02	913.680	7943.417	1.438	1.0	-3.7	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	5.02	1855.236	8068.738	2.874	1.8	-8.9	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	5.02	6252.152	10867.858	7.191	4.4	-11.5	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	5.03	11102.589	9396.339	14.770	9.1	-9.3	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	5.02	50007.871	7894.606	79.180	53.7	7.4	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	5.02	101693.664	9940.610	127.877	97.7	-2.3	NO	0.997	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.999379$

Calibration curve: $0.00321238 * x^2 + 1.21 * x + 0.026507$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	4.99	78.019	1962.993	0.497	0.4	55.3	NO	0.999	NO	bbX
2	2 180102M2_3	Standard	0.500	4.99	121.430	2365.519	0.642	0.5	1.5	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	4.99	237.716	2404.826	1.236	1.0	-0.3	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	4.99	530.424	2701.989	2.454	2.0	-0.2	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	4.99	1578.239	2982.788	6.614	5.4	7.4	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	4.99	2773.601	2905.263	11.934	9.6	-4.0	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	4.99	13186.767	2402.318	68.615	50.0	0.1	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	4.99	26248.576	2729.716	120.198	81.6	-18.4	NO	0.999	NO	bbX

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Compound name: N-MeFOSAACoefficient of Determination: $R^2 = 0.995661$ Calibration curve: $-0.00295106 * x^2 + 2.02309 * x + -0.48271$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.18	146.003	4037.611	0.452	0.5	84.9	NO	0.996	NO	bbX
2	2 180102M2_3	Standard	0.500	5.18	165.121	4428.044	0.466	0.5	-6.1	NO	0.996	NO	bb
3	3 180102M2_4	Standard	1.000	5.18	503.131	4239.640	1.483	1.0	-2.7	NO	0.996	NO	bb
4	4 180102M2_5	Standard	2.000	5.18	896.785	4568.624	2.454	1.5	-27.3	NO	0.996	NO	bb
5	5 180102M2_6	Standard	5.000	5.18	3131.262	4889.789	8.005	4.2	-15.6	NO	0.996	NO	bb
6	6 180102M2_7	Standard	10.000	5.18	6267.033	4051.958	19.333	9.9	-0.6	NO	0.996	NO	bb
7	7 180102M2_8	Standard	50.000	5.18	31284.895	3956.298	98.845	53.2	6.5	NO	0.996	NO	bb
8	8 180102M2_9	Standard	100.000	5.18	60237.043	4438.268	169.652	98.1	-1.9	NO	0.996	NO	bb

Compound name: N-EtFOSAACoefficient of Determination: $R^2 = 0.997767$ Calibration curve: $9.13857e-005 * x^2 + 1.33013 * x + -0.086728$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.33	121.493	4884.998	0.311	0.3	19.6	NO	0.998	NO	bb
2	2 180102M2_3	Standard	0.500	5.33	193.938	4813.042	0.504	0.4	-11.2	NO	0.998	NO	bb
3	3 180102M2_4	Standard	1.000	5.33	525.972	5595.485	1.175	0.9	-5.1	NO	0.998	NO	bb
4	4 180102M2_5	Standard	2.000	5.33	737.799	5133.932	1.796	1.4	-29.2	NO	0.998	NO	bb
5	5 180102M2_6	Standard	5.000	5.33	2792.286	5962.557	5.854	4.5	-10.7	NO	0.998	NO	bb
6	6 180102M2_7	Standard	10.000	5.33	5926.133	5089.167	14.556	11.0	10.0	NO	0.998	NO	bb
7	7 180102M2_8	Standard	50.000	5.33	26036.283	4837.116	67.283	50.5	0.9	NO	0.998	NO	bb
8	8 180102M2_9	Standard	100.000	5.33	49957.531	4679.708	133.442	99.7	-0.3	NO	0.998	NO	bb

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Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.999792$

Calibration curve: $0.00151861 * x^2 + 1.26795 * x + -0.0897658$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.35	281.464	11795.863	0.298	0.3	22.4	NO	1.000	NO	bb
2	2 180102M2_3	Standard	0.500	5.35	377.855	9383.154	0.503	0.5	-6.5	NO	1.000	NO	bb
3	3 180102M2_4	Standard	1.000	5.35	978.323	11350.477	1.077	0.9	-8.0	NO	1.000	NO	bb
4	4 180102M2_5	Standard	2.000	5.35	1838.890	10189.292	2.256	1.8	-7.7	NO	1.000	NO	bb
5	5 180102M2_6	Standard	5.000	5.35	5316.464	10613.905	6.261	5.0	-0.4	NO	1.000	NO	bb
6	6 180102M2_7	Standard	10.000	5.35	10743.087	10589.070	12.682	10.0	-0.5	NO	1.000	NO	bb
7	7 180102M2_8	Standard	50.000	5.35	54328.406	10017.716	67.790	50.5	1.0	NO	1.000	NO	bb
8	8 180102M2_9	Standard	100.000	5.35	90727.727	8011.392	141.560	99.8	-0.2	NO	1.000	NO	bb

Compound name: PFDS

Coefficient of Determination: $R^2 = 0.999404$

Calibration curve: $0.000619715 * x^2 + 0.348908 * x + -0.0321756$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.40	54.250	11795.863	0.057	0.3	2.7	NO	0.999	NO	MM
2	2 180102M2_3	Standard	0.500	5.39	134.482	9383.154	0.179	0.6	21.0	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	5.40	209.579	11350.477	0.231	0.8	-24.7	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	5.40	506.416	10189.292	0.621	1.9	-6.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	5.40	1580.514	10613.905	1.861	5.4	7.5	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	5.40	2996.446	10589.070	3.537	10.1	0.5	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	5.39	15115.732	10017.716	18.861	49.8	-0.5	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	5.40	26341.176	8011.392	41.100	100.1	0.1	NO	0.999	NO	bb

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Compound name: PFDoACoefficient of Determination: $R^2 = 0.998777$ Calibration curve: $-0.00160285 * x^2 + 2.48629 * x + -0.22897$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.63	338.603	7412.730	0.571	0.3	28.7	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	5.63	534.028	6530.110	1.022	0.5	0.7	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	5.63	925.550	5725.445	2.021	0.9	-9.5	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	5.63	2155.063	7762.978	3.470	1.5	-25.5	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	5.63	6230.569	6324.164	12.315	5.1	1.2	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	5.63	12466.664	6115.064	25.484	10.4	4.1	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	5.63	55516.375	5756.736	120.547	50.2	0.4	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	5.63	109663.125	5907.151	232.056	99.9	-0.1	NO	0.999	NO	bb

Compound name: N-MeFOSACorrelation coefficient: $r = 0.999762$, $r^2 = 0.999523$ Calibration curve: $1.1239 * x + -0.108539$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	1.250	5.74	132.232	16043.687	1.236	1.2	-4.3	NO	1.000	NO	bb
2	2 180102M2_3	Standard	2.500	5.74	291.559	15513.691	2.819	2.6	4.2	NO	1.000	NO	bb
3	3 180102M2_4	Standard	5.000	5.74	525.825	15964.676	4.941	4.5	-10.2	NO	1.000	NO	bb
4	4 180102M2_5	Standard	10.000	5.74	1119.642	15841.742	10.602	9.5	-4.7	NO	1.000	NO	bb
5	5 180102M2_6	Standard	25.000	5.74	3347.026	17837.416	28.146	25.1	0.6	NO	1.000	NO	bb
6	6 180102M2_7	Standard	50.000	5.74	6455.166	16188.742	59.812	53.3	6.6	NO	1.000	NO	bb
7	7 180102M2_8	Standard	250.000	5.74	30288.393	16006.967	283.830	252.6	1.1	NO	1.000	NO	bb
8	8 180102M2_9	Standard	500.000	5.74	57847.578	15605.370	556.035	494.8	-1.0	NO	1.000	NO	bb

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Compound name: PFTrDA

Correlation coefficient: $r = 0.999249$, $r^2 = 0.998498$

Calibration curve: $5.6605 * x + -0.467093$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	5.89	277.814	2910.322	1.193	0.3	17.3	NO	0.998	NO	bb
2	2 180102M2_3	Standard	0.500	5.88	411.250	2442.518	2.105	0.5	-9.1	NO	0.998	NO	bb
3	3 180102M2_4	Standard	1.000	5.88	1163.026	2346.519	6.195	1.2	17.7	NO	0.998	NO	bb
4	4 180102M2_5	Standard	2.000	5.89	1925.857	2926.466	8.226	1.5	-23.2	NO	0.998	NO	bb
5	5 180102M2_6	Standard	5.000	5.89	5931.961	2891.711	25.642	4.6	-7.7	NO	0.998	NO	bb
6	6 180102M2_7	Standard	10.000	5.88	13812.504	2975.646	58.023	10.3	3.3	NO	0.998	NO	bb
7	7 180102M2_8	Standard	50.000	5.88	51607.465	2221.127	290.435	51.4	2.8	NO	0.998	NO	bb
8	8 180102M2_9	Standard	100.000	5.88	110358.539	2464.889	559.653	99.0	-1.0	NO	0.998	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.997476$

Calibration curve: $-0.00874416 * x^2 + 3.37255 * x + -0.193713$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	6.11	155.613	2910.322	0.668	0.3	2.3	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	6.10	346.768	2442.518	1.775	0.6	16.9	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	6.10	603.105	2346.519	3.213	1.0	1.3	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	6.10	1419.695	2926.466	6.064	1.9	-6.8	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	6.11	3444.145	2891.711	14.888	4.5	-9.5	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	6.10	7116.754	2975.646	29.896	9.1	-8.6	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	6.10	27490.512	2221.127	154.710	53.3	6.6	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	6.10	48491.793	2464.889	245.913	97.7	-2.3	NO	0.997	NO	bb

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999640$

Calibration curve: $-2.4844e-005 * x^2 + 1.02224 * x + -0.049377$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	1.250	6.15	212.599	23250.135	1.372	1.4	11.2	NO	1.000	NO	bb
2	2 180102M2_3	Standard	2.500	6.15	332.429	22543.910	2.212	2.2	-11.5	NO	1.000	NO	bb
3	3 180102M2_4	Standard	5.000	6.15	751.350	22784.709	4.946	4.9	-2.2	NO	1.000	NO	bb
4	4 180102M2_5	Standard	10.000	6.15	1555.895	24182.727	9.651	9.5	-5.1	NO	1.000	NO	bb
5	5 180102M2_6	Standard	25.000	6.15	4660.037	25951.254	26.935	26.4	5.7	NO	1.000	NO	bb
6	6 180102M2_7	Standard	50.000	6.15	8255.741	23514.104	52.665	51.6	3.3	NO	1.000	NO	bb
7	7 180102M2_8	Standard	250.000	6.15	38230.813	22960.252	249.763	245.8	-1.7	NO	1.000	NO	bb
8	8 180102M2_9	Standard	500.000	6.15	76544.398	22658.357	506.730	501.9	0.4	NO	1.000	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.998895$

Calibration curve: $-0.00112888 * x^2 + 1.06189 * x + 0.0169353$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	6.44	122.613	2287.571	0.268	0.2	-5.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	0.500	6.44	238.979	1923.725	0.621	0.6	13.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	1.000	6.44	380.080	2087.165	0.911	0.8	-15.8	NO	0.999	NO	bb
4	4 180102M2_5	Standard	2.000	6.44	838.696	1935.460	2.167	2.0	1.4	NO	0.999	NO	bb
5	5 180102M2_6	Standard	5.000	6.44	2246.317	2134.108	5.263	5.0	-0.7	NO	0.999	NO	bb
6	6 180102M2_7	Standard	10.000	6.44	4191.203	1832.003	11.439	10.9	8.8	NO	0.999	NO	bb
7	7 180102M2_8	Standard	50.000	6.44	18382.549	1881.102	48.861	48.5	-3.0	NO	0.999	NO	bb
8	8 180102M2_9	Standard	100.000	6.44	34930.980	1828.044	95.542	100.7	0.7	NO	0.999	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.997481$

Calibration curve: $0.00107929 * x^2 + 1.12186 * x + -0.011842$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	0.250	6.67	124.985	2287.571	0.273	0.3	1.6	NO	0.997	NO	bb
2	2 180102M2_3	Standard	0.500	6.67	199.113	1923.725	0.518	0.5	-5.7	NO	0.997	NO	bb
3	3 180102M2_4	Standard	1.000	6.67	349.216	2087.165	0.837	0.8	-24.4	NO	0.997	NO	bb
4	4 180102M2_5	Standard	2.000	6.67	889.898	1935.460	2.299	2.1	2.8	NO	0.997	NO	bb
5	5 180102M2_6	Standard	5.000	6.67	2784.832	2134.108	6.525	5.8	15.9	NO	0.997	NO	bb
6	6 180102M2_7	Standard	10.000	6.67	4554.946	1832.003	12.432	11.0	9.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	50.000	6.67	20892.854	1881.102	55.534	47.4	-5.3	NO	0.997	NO	bb
8	8 180102M2_9	Standard	100.000	6.67	45494.445	1828.044	124.435	101.1	1.1	NO	0.997	NO	bb

Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.998506$

Calibration curve: $0.000105341 * x^2 + 1.17709 * x + -0.269877$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	1.250	6.32	194.009	18647.293	1.561	1.6	24.4	NO	0.999	NO	bb
2	2 180102M2_3	Standard	2.500	6.32	402.526	23599.381	2.558	2.4	-3.9	NO	0.999	NO	bb
3	3 180102M2_4	Standard	5.000	6.32	789.621	21770.959	5.440	4.8	-3.0	NO	0.999	NO	bb
4	4 180102M2_5	Standard	10.000	6.32	1642.807	22482.695	10.960	9.5	-4.7	NO	0.999	NO	bb
5	5 180102M2_6	Standard	25.000	6.32	4507.014	25207.309	26.820	23.0	-8.1	NO	0.999	NO	bb
6	6 180102M2_7	Standard	50.000	6.32	8806.382	24505.541	53.904	45.8	-8.3	NO	0.999	NO	bb
7	7 180102M2_8	Standard	250.000	6.32	47261.012	22505.619	314.995	261.7	4.7	NO	0.999	NO	bb
8	8 180102M2_9	Standard	500.000	6.32	83348.844	20561.994	608.031	494.9	-1.0	NO	0.999	NO	bb

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Compound name: N-EtFOSE

Correlation coefficient: $r = 0.998320$, $r^2 = 0.996643$

Calibration curve: $1.24163 * x + 0.370762$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	1.250	6.47	223.713	23019.424	1.458	0.9	-30.0	NO	0.997	NO	MM
2	2 180102M2_3	Standard	2.500	6.46	436.147	20567.943	3.181	2.3	-9.5	NO	0.997	NO	bb
3	3 180102M2_4	Standard	5.000	6.47	864.033	17832.957	7.268	5.6	11.1	NO	0.997	NO	bb
4	4 180102M2_5	Standard	10.000	6.46	1891.609	19875.211	14.276	11.2	12.0	NO	0.997	NO	bb
5	5 180102M2_6	Standard	25.000	6.47	5346.759	25813.174	31.070	24.7	-1.1	NO	0.997	NO	bb
6	6 180102M2_7	Standard	50.000	6.46	11386.544	22655.969	75.388	60.4	20.8	NO	0.997	NO	bb
7	7 180102M2_8	Standard	250.000	6.46	45743.367	22587.609	303.773	244.4	-2.3	NO	0.997	NO	bb
8	8 180102M2_9	Standard	500.000	6.46	89916.203	21959.977	614.182	494.4	-1.1	NO	0.997	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.774545

RRF SD: 0.0140973, Relative SD: 1.82007

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	1.32	7679.443	9795.079	9.800	12.7	1.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	1.33	7379.304	9353.119	9.862	12.7	1.9	NO		NO	bb
3	3 180102M2_4	Standard	12.500	1.33	7688.878	9888.167	9.720	12.5	0.4	NO		NO	bb
4	4 180102M2_5	Standard	12.500	1.33	7962.546	10208.585	9.750	12.6	0.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	1.33	8693.651	11545.845	9.412	12.2	-2.8	NO		NO	bb
6	6 180102M2_7	Standard	12.500	1.33	7877.662	10184.753	9.668	12.5	-0.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	1.33	7793.737	9914.055	9.827	12.7	1.5	NO		NO	bb
8	8 180102M2_9	Standard	12.500	1.33	7957.421	10564.219	9.416	12.2	-2.8	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.805228

RRF SD: 0.0287658, Relative SD: 3.57238

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	2.29	8771.149	11257.119	9.740	12.1	-3.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	2.30	8708.200	11155.473	9.758	12.1	-3.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	2.30	9069.425	10715.271	10.580	13.1	5.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	2.29	9109.592	10941.471	10.407	12.9	3.4	NO		NO	bb
5	5 180102M2_6	Standard	12.500	2.30	10001.896	12852.977	9.727	12.1	-3.4	NO		NO	bb
6	6 180102M2_7	Standard	12.500	2.29	9179.234	11296.521	10.157	12.6	0.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	2.30	8932.026	10743.026	10.393	12.9	3.3	NO		NO	bb
8	8 180102M2_9	Standard	12.500	2.30	8983.092	11503.685	9.761	12.1	-3.0	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.106139

RRF SD: 0.00530931, Relative SD: 5.00223

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	2.58	1181.301	11257.119	1.312	12.4	-1.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	2.58	1141.135	11155.473	1.279	12.0	-3.6	NO		NO	bb
3	3 180102M2_4	Standard	12.500	2.58	1152.078	10715.271	1.344	12.7	1.3	NO		NO	bb
4	4 180102M2_5	Standard	12.500	2.58	1269.738	10941.471	1.451	13.7	9.3	NO		NO	bb
5	5 180102M2_6	Standard	12.500	2.58	1301.825	12852.977	1.266	11.9	-4.6	NO		NO	bb
6	6 180102M2_7	Standard	12.500	2.58	1233.457	11296.521	1.365	12.9	2.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	2.58	1163.406	10743.026	1.354	12.8	2.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	2.58	1145.117	11503.685	1.244	11.7	-6.2	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.632801

RRF SD: 0.0194759, Relative SD: 3.07773

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	5.000	3.07	2786.930	11257.119	3.095	4.9	-2.2	NO		NO	bb
2	2 180102M2_3	Standard	5.000	3.07	2774.891	11155.473	3.109	4.9	-1.7	NO		NO	bb
3	3 180102M2_4	Standard	5.000	3.07	2891.223	10715.271	3.373	5.3	6.6	NO		NO	bb
4	4 180102M2_5	Standard	5.000	3.07	2818.971	10941.471	3.221	5.1	1.8	NO		NO	bb
5	5 180102M2_6	Standard	5.000	3.07	3243.789	12852.977	3.155	5.0	-0.3	NO		NO	bb
6	6 180102M2_7	Standard	5.000	3.07	2801.342	11296.521	3.100	4.9	-2.0	NO		NO	bb
7	7 180102M2_8	Standard	5.000	3.07	2645.966	10743.026	3.079	4.9	-2.7	NO		NO	bb
8	8 180102M2_9	Standard	5.000	3.07	2927.999	11503.685	3.182	5.0	0.6	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.640721

RRF SD: 0.0430173, Relative SD: 6.71389

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.68	7535.956	11257.119	8.368	13.1	4.5	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.68	6210.619	11155.473	6.959	10.9	-13.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.68	7248.519	10715.271	8.456	13.2	5.6	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.68	7337.285	10941.471	8.382	13.1	4.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.69	8242.492	12852.977	8.016	12.5	0.1	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.68	7242.242	11296.521	8.014	12.5	0.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.68	7227.423	10743.026	8.409	13.1	5.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.69	6872.139	11503.685	7.467	11.7	-6.8	NO		NO	bb

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Compound name: 1802-PFHxS

Response Factor: 0.334101

RRF SD: 0.0276572, Relative SD: 8.2781

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.84	876.585	2657.506	4.123	12.3	-1.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.84	975.615	2624.274	4.647	13.9	11.3	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.84	980.415	3029.475	4.045	12.1	-3.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.84	935.565	3337.803	3.504	10.5	-16.1	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.84	1187.076	3400.203	4.364	13.1	4.5	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.84	1076.210	3109.047	4.327	13.0	3.6	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.84	988.496	3092.462	3.996	12.0	-4.3	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.84	1010.053	2866.612	4.404	13.2	5.5	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.228249

RRF SD: 0.0195949, Relative SD: 8.58486

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.15	2365.684	11300.266	2.617	11.5	-8.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.15	2497.060	11166.586	2.795	12.2	-2.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.15	2614.704	13026.614	2.509	11.0	-12.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.15	2592.692	10689.178	3.032	13.3	6.3	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.15	2827.852	12345.387	2.863	12.5	0.4	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.15	2672.582	11438.119	2.921	12.8	2.4	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.15	2972.808	11487.354	3.235	14.2	13.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.15	3727.913	10658.433	4.372	19.2	53.2	NO		NO	bbX

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Compound name: 13C2-PFOA

Response Factor: 0.959194

RRF SD: 0.0728526, Relative SD: 7.59519

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.21	10253.480	11300.266	11.342	11.8	-5.4	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.21	11050.722	11166.586	12.370	12.9	3.2	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.21	11297.149	13026.614	10.840	11.3	-9.6	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.21	11350.530	10689.178	13.273	13.8	10.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.21	11281.333	12345.387	11.423	11.9	-4.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.21	11669.804	11438.119	12.753	13.3	6.4	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.21	10230.492	11487.354	11.132	11.6	-7.2	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.21	10901.502	10658.433	12.785	13.3	6.6	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.830371

RRF SD: 0.0908104, Relative SD: 10.9361

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.65	8691.937	11569.109	9.391	11.3	-9.5	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.65	7683.161	10709.896	8.967	10.8	-13.6	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.65	7595.522	9521.270	9.972	12.0	-3.9	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.65	9038.605	11166.313	10.118	12.2	-2.5	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.65	10988.831	10782.388	12.739	15.3	22.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.65	8553.649	10069.055	10.619	12.8	2.3	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.65	9737.121	11682.408	10.419	12.5	0.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.65	8681.578	10037.111	10.812	13.0	4.2	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.262346

RRF SD: 0.0411456, Relative SD: 15.6837

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.71	3084.802	10469.664	3.683	14.0	12.3	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.71	2870.135	12880.041	2.785	10.6	-15.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.71	3118.891	12169.355	3.204	12.2	-2.3	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.71	3245.851	10135.316	4.003	15.3	22.1	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.71	3144.589	13274.537	2.961	11.3	-9.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.71	2639.988	12415.121	2.658	10.1	-18.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.70	2775.264	11378.685	3.049	11.6	-7.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.71	3185.676	10232.887	3.891	14.8	18.7	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 0.880323

RRF SD: 0.0915711, Relative SD: 10.402

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.73	1962.993	2791.994	8.788	10.0	-20.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.73	2365.519	2652.125	11.149	12.7	1.3	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.73	2404.826	2921.574	10.289	11.7	-6.5	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.73	2701.989	2824.538	11.958	13.6	8.7	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.73	2982.788	3429.124	10.873	12.4	-1.2	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.73	2905.263	2868.500	12.660	14.4	15.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.73	2402.318	2711.805	11.073	12.6	0.6	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.73	2729.716	3035.383	11.241	12.8	2.2	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 0.995216

RRF SD: 0.164321, Relative SD: 16.5111

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.03	9409.795	9374.130	12.548	12.6	0.9	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.02	6177.648	8188.296	9.431	9.5	-24.2	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.02	7943.417	8646.034	11.484	11.5	-7.7	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.02	8068.738	8933.577	11.290	11.3	-9.2	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.02	10867.858	9861.516	13.776	13.8	10.7	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.03	9396.339	10360.227	11.337	11.4	-8.9	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.02	7894.606	7338.946	13.446	13.5	8.1	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.02	9940.610	7665.349	16.210	16.3	30.3	NO		NO	bb

Compound name: 13C2-8:2 FTS

Response Factor: 0.142215

RRF SD: 0.0240969, Relative SD: 16.944

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.99	1488.020	11257.119	1.652	11.6	-7.1	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.99	1363.151	11155.473	1.527	10.7	-14.1	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.99	1616.851	10715.271	1.886	13.3	6.1	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.99	1578.551	10941.471	1.803	12.7	1.4	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.99	1470.059	12852.977	1.430	10.1	-19.6	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.99	1381.755	11296.521	1.529	10.8	-14.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.99	1949.049	10743.026	2.268	15.9	27.6	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.99	1956.313	11503.685	2.126	14.9	19.6	NO		NO	bb

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Compound name: d3-N-MeFOSAA

Response Factor: 0.375593

RRF SD: 0.0449379, Relative SD: 11.9645

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.17	4037.611	10469.664	4.821	12.8	2.7	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.17	4428.044	12880.041	4.297	11.4	-8.5	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.17	4239.640	12169.355	4.355	11.6	-7.2	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.17	4568.624	10135.316	5.635	15.0	20.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.17	4889.789	13274.537	4.604	12.3	-1.9	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.17	4051.958	12415.121	4.080	10.9	-13.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.17	3956.298	11378.685	4.346	11.6	-7.4	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.17	4438.268	10232.887	5.422	14.4	15.5	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.443515

RRF SD: 0.0402431, Relative SD: 9.07368

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.33	4884.998	10469.664	5.832	13.2	5.2	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.33	4813.042	12880.041	4.671	10.5	-15.7	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.33	5595.485	12169.355	5.748	13.0	3.7	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.33	5133.932	10135.316	6.332	14.3	14.2	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.33	5962.557	13274.537	5.615	12.7	1.3	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.33	5089.167	12415.121	5.124	11.6	-7.6	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.32	4837.116	11378.685	5.314	12.0	-4.2	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.33	4679.708	10232.887	5.717	12.9	3.1	NO		NO	bb

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Compound name: 13C2-PFUDa

Response Factor: 0.888624

RRF SD: 0.13001, Relative SD: 14.6304

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.35	11795.863	10469.664	14.083	15.8	26.8	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.35	9383.154	12880.041	9.106	10.2	-18.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.35	11350.477	12169.355	11.659	13.1	5.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.35	10189.292	10135.316	12.567	14.1	13.1	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.35	10613.905	13274.537	9.995	11.2	-10.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.35	10589.070	12415.121	10.661	12.0	-4.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.35	10017.716	11378.685	11.005	12.4	-0.9	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.35	8011.392	10232.887	9.786	11.0	-11.9	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.542224

RRF SD: 0.104705, Relative SD: 19.3103

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.63	7412.730	10469.664	8.850	16.3	30.6	NO		NO	bbX
2	2 180102M2_3	Standard	12.500	5.63	6530.110	12880.041	6.337	11.7	-6.5	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.63	5725.445	12169.355	5.881	10.8	-13.2	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.63	7762.978	10135.316	9.574	17.7	41.3	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.63	6324.164	13274.537	5.955	11.0	-12.1	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.63	6115.064	12415.121	6.157	11.4	-9.2	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.63	5756.736	11378.685	6.324	11.7	-6.7	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.63	5907.151	10232.887	7.216	13.3	6.5	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.116575

RRF SD: 0.0108269, Relative SD: 9.28746

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	150.000	5.76	16043.687	10469.664	19.155	164.3	9.5	NO		NO	bb
2	2 180102M2_3	Standard	150.000	5.76	15513.691	12880.041	15.056	129.2	-13.9	NO		NO	bb
3	3 180102M2_4	Standard	150.000	5.76	15964.676	12169.355	16.398	140.7	-6.2	NO		NO	bb
4	4 180102M2_5	Standard	150.000	5.76	15841.742	10135.316	19.538	167.6	11.7	NO		NO	bb
5	5 180102M2_6	Standard	150.000	5.76	17837.416	13274.537	16.797	144.1	-3.9	NO		NO	bb
6	6 180102M2_7	Standard	150.000	5.76	16188.742	12415.121	16.299	139.8	-6.8	NO		NO	bb
7	7 180102M2_8	Standard	150.000	5.76	16006.967	11378.685	17.584	150.8	0.6	NO		NO	bb
8	8 180102M2_9	Standard	150.000	5.76	15605.370	10232.887	19.063	163.5	9.0	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.230346

RRF SD: 0.0384216, Relative SD: 16.6799

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	6.10	2910.322	10469.664	3.475	15.1	20.7	NO		NO	bb
2	2 180102M2_3	Standard	12.500	6.10	2442.518	12880.041	2.370	10.3	-17.7	NO		NO	bb
3	3 180102M2_4	Standard	12.500	6.10	2346.519	12169.355	2.410	10.5	-16.3	NO		NO	bb
4	4 180102M2_5	Standard	12.500	6.10	2926.466	10135.316	3.609	15.7	25.4	NO		NO	bb
5	5 180102M2_6	Standard	12.500	6.10	2891.711	13274.537	2.723	11.8	-5.4	NO		NO	bb
6	6 180102M2_7	Standard	12.500	6.10	2975.646	12415.121	2.996	13.0	4.1	NO		NO	bb
7	7 180102M2_8	Standard	12.500	6.10	2221.127	11378.685	2.440	10.6	-15.3	NO		NO	bb
8	8 180102M2_9	Standard	12.500	6.10	2464.889	10232.887	3.011	13.1	4.6	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.1699

RRF SD: 0.0179233, Relative SD: 10.5493

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	150.000	6.17	23250.135	10469.664	27.759	163.4	8.9	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.16	22543.910	12880.041	21.879	128.8	-14.2	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.17	22784.709	12169.355	23.404	137.8	-8.2	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.17	24182.727	10135.316	29.825	175.5	17.0	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.17	25951.254	13274.537	24.437	143.8	-4.1	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.17	23514.104	12415.121	23.675	139.3	-7.1	NO		NO	bb
7	7 180102M2_8	Standard	150.000	6.16	22960.252	11378.685	25.223	148.5	-1.0	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.16	22658.357	10232.887	27.678	162.9	8.6	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.432067

RRF SD: 0.0585617, Relative SD: 13.5538

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	5.000	6.44	2287.571	10469.664	2.731	6.3	26.4	NO		NO	bb
2	2 180102M2_3	Standard	5.000	6.44	1923.725	12880.041	1.867	4.3	-13.6	NO		NO	bb
3	3 180102M2_4	Standard	5.000	6.44	2087.165	12169.355	2.144	5.0	-0.8	NO		NO	bb
4	4 180102M2_5	Standard	5.000	6.44	1935.460	10135.316	2.387	5.5	10.5	NO		NO	bb
5	5 180102M2_6	Standard	5.000	6.44	2134.108	13274.537	2.010	4.7	-7.0	NO		NO	bb
6	6 180102M2_7	Standard	5.000	6.44	1832.003	12415.121	1.845	4.3	-14.6	NO		NO	bb
7	7 180102M2_8	Standard	5.000	6.44	1881.102	11378.685	2.066	4.8	-4.3	NO		NO	bb
8	8 180102M2_9	Standard	5.000	6.44	1828.044	10232.887	2.233	5.2	3.4	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.161256

RRF SD: 0.0120343, Relative SD: 7.46286

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	150.000	6.31	18647.293	10469.664	22.263	138.1	-8.0	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.31	23599.381	12880.041	22.903	142.0	-5.3	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.31	21770.959	12169.355	22.362	138.7	-7.5	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.31	22482.695	10135.316	27.728	172.0	14.6	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.31	25207.309	13274.537	23.737	147.2	-1.9	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.31	24505.541	12415.121	24.673	153.0	2.0	NO		NO	bb
7	7 180102M2_8	Standard	150.000	6.31	22505.619	11378.685	24.723	153.3	2.2	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.31	20561.994	10232.887	25.118	155.8	3.8	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.157526

RRF SD: 0.0210896, Relative SD: 13.388

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	150.000	6.46	23019.424	10469.664	27.483	174.5	16.3	NO		NO	bb
2	2 180102M2_3	Standard	150.000	6.46	20567.943	12880.041	19.961	126.7	-15.5	NO		NO	bb
3	3 180102M2_4	Standard	150.000	6.46	17832.957	12169.355	18.317	116.3	-22.5	NO		NO	bb
4	4 180102M2_5	Standard	150.000	6.46	19875.211	10135.316	24.512	155.6	3.7	NO		NO	bb
5	5 180102M2_6	Standard	150.000	6.46	25813.174	13274.537	24.307	154.3	2.9	NO		NO	bb
6	6 180102M2_7	Standard	150.000	6.46	22655.969	12415.121	22.811	144.8	-3.5	NO		NO	bd
7	7 180102M2_8	Standard	150.000	6.46	22587.609	11378.685	24.814	157.5	5.0	NO		NO	bb
8	8 180102M2_9	Standard	150.000	6.46	21959.977	10232.887	26.825	170.3	13.5	NO		NO	bd

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Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	1.32	9795.079	9795.079	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	1.33	9353.119	9353.119	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	1.33	9888.167	9888.167	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	1.33	10208.585	10208.585	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	1.33	11545.845	11545.845	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	1.33	10184.753	10184.753	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	1.33	9914.055	9914.055	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	1.33	10564.219	10564.219	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.07	11257.119	11257.119	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.07	11155.473	11155.473	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.07	10715.271	10715.271	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.07	10941.471	10941.471	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.07	12852.977	12852.977	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.07	11296.521	11296.521	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.07	10743.026	10743.026	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.07	11503.685	11503.685	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	3.84	2657.506	2657.506	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	3.84	2624.274	2624.274	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	3.84	3029.475	3029.475	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	3.84	3337.803	3337.803	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	3.84	3400.203	3400.203	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	3.84	3109.047	3109.047	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	3.84	3092.462	3092.462	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	3.84	2866.612	2866.612	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.21	11300.266	11300.266	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.21	11166.586	11166.586	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.21	13026.614	13026.614	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.21	10689.178	10689.178	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.21	12345.387	12345.387	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.21	11438.119	11438.119	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.21	11487.354	11487.354	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.21	10658.433	10658.433	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.65	11569.109	11569.109	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.65	10709.896	10709.896	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.65	9521.270	9521.270	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.65	11166.313	11166.313	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.65	10782.388	10782.388	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.65	10069.055	10069.055	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.65	11682.408	11682.408	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.65	10037.111	10037.111	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	4.73	2791.994	2791.994	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	4.73	2652.125	2652.125	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	4.73	2921.574	2921.574	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	4.73	2824.538	2824.538	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	4.73	3429.124	3429.124	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	4.73	2868.500	2868.500	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	4.73	2711.805	2711.805	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	4.73	3035.383	3035.383	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.02	9374.130	9374.130	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.02	8188.296	8188.296	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.02	8646.034	8646.034	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.02	8933.577	8933.577	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.02	9861.516	9861.516	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.02	10360.227	10360.227	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.02	7338.946	7338.946	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.02	7665.349	7665.349	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180102M2_2	Standard	12.500	5.35	10469.664	10469.664	12.500	12.5	0.0	NO		NO	bb
2	2 180102M2_3	Standard	12.500	5.35	12880.041	12880.041	12.500	12.5	0.0	NO		NO	bb
3	3 180102M2_4	Standard	12.500	5.35	12169.355	12169.355	12.500	12.5	0.0	NO		NO	bb
4	4 180102M2_5	Standard	12.500	5.35	10135.316	10135.316	12.500	12.5	0.0	NO		NO	bb
5	5 180102M2_6	Standard	12.500	5.35	13274.537	13274.537	12.500	12.5	0.0	NO		NO	bb
6	6 180102M2_7	Standard	12.500	5.35	12415.121	12415.121	12.500	12.5	0.0	NO		NO	bb
7	7 180102M2_8	Standard	12.500	5.35	11378.685	11378.685	12.500	12.5	0.0	NO		NO	bb
8	8 180102M2_9	Standard	12.500	5.35	10232.887	10232.887	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:42:48 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 10:38:46

Name: 180102M2_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9996	NO	
2	2 PFPeA	0.9996	NO	
3	3 PFBS	0.9993	NO	
4	4 PFHxA	0.9997	NO	
5	5 PFHpA	0.9990	NO	
6	6 L-PFHxS	0.9984	NO	
7	8 6:2 FTS	0.9994	NO	
8	9 L-PFOA	0.9993	NO	
9	11 PFHpS	0.9970	NO	
10	12 PFNA	0.9977	NO	
11	13 PFOSA	0.9990	NO	
12	14 L-PFOS	0.9990	NO	
13	16 PFDA	0.9967	NO	
14	17 8:2 FTS	0.9994	NO	
15	18 N-MeFOSAA	0.9957	NO	
16	19 N-EtFOSAA	0.9978	NO	
17	20 PFUdA	0.9998	NO	
18	21 PFDS	0.9994	NO	
19	22 PFDoA	0.9988	NO	
20	23 N-MeFOSA	0.9995	NO	
21	24 PFTTrDA	0.9985	NO	
22	25 PFTeDA	0.9975	NO	
23	26 N-EtFOSA	0.9996	NO	
24	27 PFHxDA	0.9989	NO	
25	28 PFODA	0.9975	NO	
26	29 N-MeFOSE	0.9985	NO	
27	30 N-EtFOSE	0.9966	NO	
28	31 13C3-PFBA		NO	1.820
29	32 13C3-PFPeA		NO	3.572
30	33 13C3-PFBS		NO	5.002
31	34 13C2-PFHxA		NO	3.078

Work Order 1701802

Dataset: U:\Q4.PRO\results\180102M2\180102M2-CRV.qld

Last Altered: Wednesday, January 03, 2018 10:38:46 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:42:48 Pacific Standard Time

Name: 180102M2_2, Date: 02-Jan-2018, Time: 15:35:49, ID: ST180102M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

	# Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	6.714
33	36 18O2-PFHxS		NO	8.278
34	37 13C2-6:2 FTS		NO	8.585
35	38 13C2-PFOA		NO	7.595
36	39 13C5-PFNA		NO	10.936
37	40 13C8-PFOA		NO	15.684
38	41 13C8-PFOS		NO	10.402
39	42 13C2-PFDA		NO	16.511
40	43 13C2-8:2 FTS		NO	16.944
41	44 d3-N-MeFOSAA		NO	11.965
42	45 d5-N-EtFOSAA		NO	9.074
43	46 13C2-PFUdA		NO	14.630
44	47 13C2-PFDoA		NO	19.310
45	48 d3-N-MeFOSA		NO	9.287
46	49 13C2-PFTeDA		NO	16.680
47	50 d5-N-ETFOSA		NO	10.549
48	51 13C2-PFHxDA		NO	13.554
49	52 d7-N-MeFOSE		NO	7.463
50	53 d9-N-EtFOSE		NO	13.388
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUdA		NO	0.000

Dataset: Untitled

Last Altered: Wednesday, January 03, 2018 10:52:28 Pacific Standard Time

Printed: Wednesday, January 03, 2018 10:53:06 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 10:38:46

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180102M2_1	IPA	02-Jan-18	15:24:32
2	180102M2_2	ST180102M2-1 PFC CS-2 17L2606	02-Jan-18	15:35:49
3	180102M2_3	ST180102M2-2 PFC CS-1 17L2607	02-Jan-18	15:46:59
4	180102M2_4	ST180102M2-3 PFC CS0 17L2608	02-Jan-18	15:58:11
5	180102M2_5	ST180102M2-4 PFC CS1 17L2609	02-Jan-18	16:09:21
6	180102M2_6	ST180102M2-5 PFC CS2 17L2610	02-Jan-18	16:20:32
7	180102M2_7	ST180102M2-6 PFC CS3 17L2611	02-Jan-18	16:31:43
8	180102M2_8	ST180102M2-7 PFC CS4 17L2612	02-Jan-18	16:42:54
9	180102M2_9	ST180102M2-8 PFC CS5 17L2613	02-Jan-18	16:54:04
10	180102M2_10	ST180102M2-9 PFC CS6 17L2710	02-Jan-18	17:05:15
11	180102M2_11	ST180102M2-10 PFC CS7 17L1804	02-Jan-18	17:16:26
12	180102M2_12	IPA	02-Jan-18	17:27:37
13	180102M2_13	ICV180102M2-1 PFC ICV 17L1201	02-Jan-18	17:38:47

Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Ⓐ No SS available.

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time

Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 08:57:44

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Name: 180102M2_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

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01/03/2018

	#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	8.09e3	8.15e3	1.0000		1.47	1.33	12.4	8.859	88.6
2	2	PFPeA	263.1 > 218.9	7.83e3	9.74e3	1.0000		2.35	2.30	10.0	8.087	80.9
3	3	PFBS	299.0 > 79.7	1.58e3	1.28e3	1.0000		2.70	2.58	15.5	7.073	70.7
4	4	PFHxA	313.2 > 268.9	9.42e3	2.95e3	1.0000		3.12	3.07	16.0	8.548	85.5
5	5	PFHpA	363.0 > 318.9	8.17e3	6.97e3	1.0000		3.75	3.69	14.7	9.193	91.9
6	6	L-PFHxS	398.9 > 79.6	1.36e3	1.04e3	1.0000		3.85	3.84	16.4	8.211	82.1
7	8	6:2 FTS	427.1 > 407	2.52e3	1.09e4	1.0000		4.20	4.15	2.88	9.461	94.6
8	9	L-PFOA	413 > 368.7	8.96e3	1.09e4	1.0000		4.25	4.21	10.2	8.001	80.0
9	11	PFHpS	449 > 80.0	1.89e3	1.09e4	1.0000		4.35	4.32	2.15	7.225	72.2
10	12	PFNA	463.0 > 418.8	9.79e3	1.06e4	1.0000		4.70	4.65	11.5	7.994	79.9
11	13	PFOSA	498.1 > 77.8	3.10e3	3.14e3	1.0000		4.81	4.71	12.3	9.112	91.1
12	14	L-PFOS	499 > 79.9	2.28e3	2.59e3	1.0000		4.83	4.73	11.0	10.766	107.7
13	16	PFDA	513 > 468.8	9.04e3	9.42e3	1.0000		5.05	5.02	12.0	7.357	73.6
14	17	8:2 FTS	527 > 506.9	1.87e3	2.59e3	1.0000		5.02	4.99	9.04	7.305	73.1
15	18	N-MeFOSAA	570.1 > 419	5.52e3	4.62e3	1.0000		5.20	5.18	14.9	7.713	77.1
16	19	N-EtFOSAA	584.2 > 419	5.07e3	5.99e3	1.0000		5.42	5.33	10.6	8.013	80.1
17	20	PFUdA	563.0 > 518.9	9.20e3	1.15e4	1.0000		5.35	5.35	9.98	7.868	78.7
18	21	PFDS	598.8 > 80	2.47e3	1.15e4	1.0000		5.50	5.40	2.68	7.669	76.7
19	22	PFDoA	612.9 > 569.0	1.09e4	6.06e3	1.0000		5.70	5.63	22.5	9.193	91.9
20	23	N-MeFOSA	512.1 > 168.9		1.60e4	1.0000		5.77				Ⓐ
21	24	PFTrDA	662.9 > 618.9	8.37e3	2.33e3	1.0000		5.95	5.88	45.0	8.028	80.3
22	25	PFTeDA	712.9 > 668.8	4.89e3	2.33e3	1.0000		6.16	6.10	26.3	8.011	80.1
23	26	N-EtFOSA	526.1 > 168.9		2.35e4	1.0000		6.15				Ⓐ
24	27	PFHxDA	813.1 > 768.6		1.83e3	1.0000		6.48				
25	28	PFODA	913.1 > 868.8		1.83e3	1.0000		6.70				
26	29	N-MeFOSE	616.1 > 58.9		2.51e4	1.0000		6.30				
27	30	N-EtFOSE	630.1 > 58.9		2.32e4	1.0000		6.42				
28	31	13C3-PFBA	216.1 > 171.8	8.15e3	9.19e3	1.0000	0.775	1.47	1.33	11.1	14.303	114.4
29	32	13C3-PFPeA	266. > 221.8	9.74e3	9.86e3	1.0000	0.805	2.44	2.30	12.4	15.344	122.8
30	33	13C3-PFBS	302. > 98.8	1.28e3	9.86e3	1.0000	0.106	2.70	2.58	1.62	15.245	122.0
31	Work	01-03-2018	315 > 269.8	2.95e3	9.86e3	1.0000	0.633	3.20	3.07	3.74	5.904	118.4

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Dataset: U:\Q4.PRO\results\180102M2\180102M2-13.qld

Last Altered: Wednesday, January 03, 2018 11:17:18 Pacific Standard Time
Printed: Wednesday, January 03, 2018 11:17:55 Pacific Standard Time

Name: 180102M2_13, Date: 02-Jan-2018, Time: 17:38:47, ID: ICV180102M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	6.97e3	9.86e3	1.0000	0.641	3.80	3.69	8.84	13.790	110.3
33	36 18O2-PFHxS	403.0 > 102.6	1.04e3	2.35e3	1.0000	0.334	3.95	3.84	5.52	16.524	132.2
34	37 13C2-6:2 FTS	429.1 > 408.9	2.84e3	9.09e3	1.0000	0.228	4.26	4.16	3.90	17.084	136.7
35	38 13C2-PFOA	414.9 > 369.7	1.09e4	9.09e3	1.0000	0.959	4.32	4.21	15.0	15.686	125.5
36	39 13C5-PFNA	468.2 > 422.9	1.06e4	1.17e4	1.0000	0.830	4.75	4.65	11.4	13.671	109.4
37	40 13C8-PFOSA	506.1 > 77.7	3.14e3	1.10e4	1.0000	0.262	4.81	4.71	3.57	13.613	108.9
38	41 13C8-PFOS	507.0 > 79.9	2.59e3	2.87e3	1.0000	0.880	4.83	4.73	11.3	12.790	102.3
39	42 13C2-PFDA	515.1 > 469.9	9.42e3	8.61e3	1.0000	0.995	5.11	5.02	13.7	13.749	110.0
40	43 13C2-8:2 FTS	529.1 > 508.7	1.21e3	9.86e3	1.0000	0.142	5.09	4.99	1.54	10.794	86.3
41	44 d3-N-MeFOSAA	573.3 > 419	4.62e3	1.10e4	1.0000	0.376	5.26	5.17	5.25	13.968	111.7
42	45 d5-N-EtFOSAA	589.3 > 419	5.99e3	1.10e4	1.0000	0.444	5.42	5.33	6.80	15.342	122.7
43	46 13C2-PFUdA	565 > 519.8	1.15e4	1.10e4	1.0000	0.889	5.43	5.35	13.1	14.729	117.8
44	47 13C2-PFDoA	615.0 > 569.7	6.06e3	1.10e4	1.0000	0.542	5.70	5.63	6.88	12.696	101.6
45	48 d3-N-MeFOSA	515.2 > 168.9	1.60e4	1.10e4	1.0000	0.117	5.80	5.76	18.1	155.682	103.8
46	49 13C2-PFTeDA	714.8 > 669.6	2.33e3	1.10e4	1.0000	0.230	6.16	6.10	2.64	11.478	91.8
47	50 d5-N-ETFOA	531.1 > 168.9	2.35e4	1.10e4	1.0000	0.170	6.16	6.16	26.8	157.466	105.0
48	51 13C2-PFHxDA	815 > 769.7	1.83e3	1.10e4	1.0000	0.432	6.48	6.44	2.08	4.805	96.1
49	52 d7-N-MeFOSE	623.1 > 58.9	2.51e4	1.10e4	1.0000	0.161	6.30	6.31	28.5	176.914	117.9
50	53 d9-N-EtFOSE	639.2 > 58.8	2.32e4	1.10e4	1.0000	0.158	6.42	6.46	26.3	166.984	111.3
51	54 13C4-PFBA	217. > 171.8	9.19e3	9.19e3	1.0000	1.000	1.47	1.33	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	9.86e3	9.86e3	1.0000	1.000	3.20	3.07	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	2.35e3	2.35e3	1.0000	1.000	3.95	3.84	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	9.09e3	9.09e3	1.0000	1.000	4.32	4.21	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.17e4	1.17e4	1.0000	1.000	4.75	4.65	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	2.87e3	2.87e3	1.0000	1.000	4.83	4.73	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.61e3	8.61e3	1.0000	1.000	5.11	5.02	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.10e4	1.10e4	1.0000	1.000	5.43	5.35	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time

Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818.mdb 09 Jan 2018 10:39:49

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Compound name: PFBACorrelation coefficient: $r = 0.999526$, $r^2 = 0.999051$ Calibration curve: $1.47179 * x + -0.0484807$

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

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vja 01/11/2018

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	1.34	158.015	5445.118	0.363	0.3	11.8	NO	0.999	NO	MM
2	2 180110M3_3	Standard	0.500	1.34	298.382	5531.277	0.674	0.5	-1.8	NO	0.999	NO	MM
3	3 180110M3_4	Standard	1.000	1.34	656.323	6197.237	1.324	0.9	-6.8	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	1.34	1397.959	6682.359	2.615	1.8	-9.5	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	1.33	5018.948	8645.433	7.257	5.0	-0.7	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	1.34	8762.965	7475.106	14.654	10.0	-0.1	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	1.34	47496.918	8574.918	69.238	47.1	-5.8	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	1.34	92845.438	8087.149	143.508	97.5	-2.5	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	1.34	322793.250	10724.149	376.246	255.7	2.3	NO	0.999	NO	bb

Compound name: PFPeACorrelation coefficient: $r = 0.999692$, $r^2 = 0.999384$ Calibration curve: $1.26321 * x + -0.0617763$

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	2.31	137.895	6191.314	0.278	0.3	7.7	NO	0.999	NO	bb
2	2 180110M3_3	Standard	0.500	2.32	294.900	6388.503	0.577	0.5	1.1	NO	0.999	NO	bb
3	3 180110M3_4	Standard	1.000	2.31	611.176	7240.874	1.055	0.9	-11.6	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	2.31	1403.153	7656.253	2.291	1.9	-6.9	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	2.31	5529.848	10067.521	6.866	5.5	9.7	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	2.32	9436.634	9432.145	12.506	9.9	-0.5	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	2.32	48777.508	9361.531	65.130	51.6	3.2	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	2.31	87627.469	8984.164	121.919	96.6	-3.4	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	2.32	298433.719	11738.701	317.788	251.6	0.6	NO	0.999	NO	bb

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time

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Compound name: PFBSCoefficient of Determination: $R^2 = 0.999640$ Calibration curve: $0.00081362 * x^2 + 2.12043 * x + 0.00999409$

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	2.59	40.093	843.391	0.594	0.3	10.2	NO	1.000	NO	MM
2	2 180110M3_3	Standard	0.500	2.60	65.625	875.797	0.937	0.4	-12.6	NO	1.000	NO	MM
3	3 180110M3_4	Standard	1.000	2.60	157.137	894.616	2.196	1.0	3.0	NO	1.000	NO	bb
4	4 180110M3_5	Standard	2.000	2.60	324.442	1011.215	4.011	1.9	-5.7	NO	1.000	NO	bb
5	5 180110M3_6	Standard	5.000	2.59	1100.859	1232.651	11.164	5.2	5.0	NO	1.000	NO	bb
6	6 180110M3_7	Standard	10.000	2.60	2102.512	1207.154	21.771	10.2	2.2	NO	1.000	NO	bb
7	7 180110M3_8	Standard	50.000	2.59	10660.588	1285.018	103.701	48.0	-4.0	NO	1.000	NO	bb
8	8 180110M3_9	Standard	100.000	2.59	21287.502	1183.646	224.809	102.0	2.0	NO	1.000	NO	bb
9	9 180110M3_10	Standard	250.000	2.60	69073.766	1488.746	579.966	249.6	-0.2	NO	1.000	NO	bb

Compound name: PFHxACorrelation coefficient: $r = 0.999048$, $r^2 = 0.998098$ Calibration curve: $1.9385 * x + -0.0246659$

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	3.09	216.357	2081.847	0.520	0.3	12.3	NO	0.998	NO	bb
2	2 180110M3_3	Standard	0.500	3.09	311.359	2064.240	0.754	0.4	-19.6	NO	0.998	NO	bb
3	3 180110M3_4	Standard	1.000	3.09	809.112	2293.726	1.764	0.9	-7.7	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	3.09	1863.764	2353.448	3.960	2.1	2.8	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	3.09	6463.479	3551.324	9.100	4.7	-5.9	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	3.09	12226.492	2750.103	22.229	11.5	14.8	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	3.09	62812.871	3223.589	97.427	50.3	0.5	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	3.09	121751.227	2973.789	204.707	105.6	5.6	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	3.09	379602.906	4029.222	471.062	243.0	-2.8	NO	0.998	NO	bb

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Compound name: PFHpA

Correlation coefficient: $r = 0.999839$, $r^2 = 0.999677$

Calibration curve: $1.65421 * x + -0.120464$

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	3.71	153.400	5439.776	0.352	0.3	14.4	NO	1.000	NO	bb
2	2 180110M3_3	Standard	0.500	3.71	280.672	5317.372	0.660	0.5	-5.7	NO	1.000	NO	bb
3	3 180110M3_4	Standard	1.000	3.71	717.935	6029.103	1.488	1.0	-2.7	NO	1.000	NO	bb
4	4 180110M3_5	Standard	2.000	3.71	1492.550	6373.487	2.927	1.8	-7.9	NO	1.000	NO	bb
5	5 180110M3_6	Standard	5.000	3.71	5516.071	8559.692	8.055	4.9	-1.2	NO	1.000	NO	bb
6	6 180110M3_7	Standard	10.000	3.71	9751.433	7383.596	16.509	10.1	0.5	NO	1.000	NO	bb
7	7 180110M3_8	Standard	50.000	3.71	51160.898	7430.805	86.062	52.1	4.2	NO	1.000	NO	bb
8	8 180110M3_9	Standard	100.000	3.70	97725.922	7501.529	162.843	98.5	-1.5	NO	1.000	NO	bb
9	9 180110M3_10	Standard	250.000	3.71	316358.625	9581.552	412.718	249.6	-0.2	NO	1.000	NO	bb

Compound name: L-PFHxS

Correlation coefficient: $r = 0.999101$, $r^2 = 0.998203$

Calibration curve: $2.11856 * x + -0.208942$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	3.85	19.254	607.107	0.396	0.3	14.3	NO	0.998	NO	MM
2	2 180110M3_3	Standard	0.500	3.86	48.454	587.859	1.030	0.6	17.0	NO	0.998	NO	MM
3	3 180110M3_4	Standard	1.000	3.85	74.238	721.191	1.287	0.7	-29.4	NO	0.998	NO	MM
4	4 180110M3_5	Standard	2.000	3.85	208.085	841.432	3.091	1.6	-22.1	NO	0.998	NO	MM
5	5 180110M3_6	Standard	5.000	3.86	868.133	928.808	11.683	5.6	12.3	NO	0.998	NO	MM
6	6 180110M3_7	Standard	10.000	3.86	1509.147	837.404	22.527	10.7	7.3	NO	0.998	NO	MM
7	7 180110M3_8	Standard	50.000	3.85	7829.683	881.507	111.027	52.5	5.0	NO	0.998	NO	MM
8	8 180110M3_9	Standard	100.000	3.85	15222.428	947.682	200.785	94.9	-5.1	NO	0.998	NO	MM
9	9 180110M3_10	Standard	250.000	3.86	50756.664	1189.369	533.441	251.9	0.8	NO	0.998	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.995180$

Calibration curve: $0.0125368 * x^2 + 2.94435 * x + -0.110501$

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.17	27.306	607.107	0.562	0.2	-8.7	NO	0.995	NO	MM
2	2 180110M3_3	Standard	0.500	4.18	82.592	587.859	1.756	0.6	26.5	NO	0.995	NO	bb
3	3 180110M3_4	Standard	1.000	4.17	113.301	721.191	1.964	0.7	-29.8	NO	0.995	NO	bb
4	4 180110M3_5	Standard	2.000	4.17	318.644	841.432	4.734	1.6	-18.3	NO	0.995	NO	bb
5	5 180110M3_6	Standard	5.000	4.17	1331.516	928.808	17.920	6.0	19.4	NO	0.995	NO	bb
6	6 180110M3_7	Standard	10.000	4.17	1956.682	837.404	29.208	9.6	-4.3	NO	0.995	NO	bb
7	7 180110M3_8	Standard	50.000	4.17	12586.734	881.507	178.483	50.0	0.0	NO	0.995	NO	bb
8	8 180110M3_9	Standard	100.000	4.17	18243.367	947.682	240.631	64.2	-35.8	NO	0.995	NO	bbX
9	9 180110M3_10	Standard	250.000	4.17	67354.156	1189.369	707.877	147.6	-40.9	NO	0.995	NO	bbX

Compound name: L-PFOA

Coefficient of Determination: $R^2 = 0.998464$

Calibration curve: $-9.7055e-005 * x^2 + 1.26022 * x + 0.185633$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.23	298.790	6843.800	0.546	0.3	14.3	NO	0.998	NO	MM
2	2 180110M3_3	Standard	0.500	4.23	519.394	7076.908	0.917	0.6	16.1	NO	0.998	NO	MM
3	3 180110M3_4	Standard	1.000	4.22	859.486	9304.335	1.155	0.8	-23.1	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	4.23	1848.242	8455.973	2.732	2.0	1.1	NO	0.998	NO	db
5	5 180110M3_6	Standard	5.000	4.22	5524.569	11446.934	6.033	4.6	-7.2	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	4.23	10129.542	10524.176	12.031	9.4	-5.9	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	4.22	52634.219	9660.232	68.107	54.1	8.2	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	4.22	96777.461	10039.607	120.495	96.2	-3.8	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	4.22	349181.594	14076.219	310.081	250.7	0.3	NO	0.998	NO	bb

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.999403$

Calibration curve: $0.00123665 * x^2 + 0.283611 * x + -0.0187761$

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.34	40.899	6843.800	0.075	0.3	31.6	NO	0.999	NO	MMX
2	2 180110M3_3	Standard	0.500	4.33	68.354	7076.908	0.121	0.5	-1.8	NO	0.999	NO	bb
3	3 180110M3_4	Standard	1.000	4.33	197.523	9304.335	0.265	1.0	-0.2	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	4.33	365.727	8455.973	0.541	2.0	-2.2	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	4.33	1415.746	11446.934	1.546	5.4	7.8	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	4.34	2382.782	10524.176	2.830	9.6	-3.6	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	4.33	13342.360	9660.232	17.265	50.0	0.1	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	4.33	26513.092	10039.607	33.011	85.0	-15.0	NO	0.999	NO	bbX
9	9 180110M3_10	Standard	250.000	4.33	85610.664	14076.219	76.024	158.5	-36.6	NO	0.999	NO	bbX

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.998092$

Calibration curve: $0.000693223 * x^2 + 1.40868 * x + 0.0082777$

Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.66	214.934	6595.252	0.407	0.3	13.3	NO	0.998	NO	bb
2	2 180110M3_3	Standard	0.500	4.66	364.859	7834.280	0.582	0.4	-18.5	NO	0.998	NO	bb
3	3 180110M3_4	Standard	1.000	4.66	803.702	7113.500	1.412	1.0	-0.4	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	4.66	1676.318	7757.888	2.701	1.9	-4.5	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	4.66	5845.264	10243.467	7.133	5.0	0.9	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	4.66	10523.932	8076.588	16.288	11.5	14.9	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	4.66	56089.699	10747.179	65.238	45.3	-9.4	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	4.66	107733.680	8749.379	153.916	103.9	3.9	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	4.66	368969.406	11695.055	394.365	249.4	-0.3	NO	0.998	NO	bb

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Compound name: PFOSA

Correlation coefficient: $r = 0.999329$, $r^2 = 0.998658$

Calibration curve: $1.30775 * x + 0.0347805$

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.72	50.514	1564.524	0.404	0.3	12.8	NO	0.999	NO	MM
2	2 180110M3_3	Standard	0.500	4.72	68.373	1375.187	0.621	0.4	-10.3	NO	0.999	NO	bb
3	3 180110M3_4	Standard	1.000	4.71	201.535	1766.893	1.426	1.1	6.4	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	4.72	360.366	1897.929	2.373	1.8	-10.6	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	4.72	1269.298	2478.382	6.402	4.9	-2.6	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	4.72	2319.396	2100.719	13.801	10.5	5.3	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	4.72	12512.175	2311.924	67.650	51.7	3.4	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	4.72	21843.365	2220.110	122.986	94.0	-6.0	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	4.72	79570.422	2993.427	332.271	254.1	1.6	NO	0.999	NO	bb

Compound name: L-PFOS

Coefficient of Determination: $R^2 = 0.997444$

Calibration curve: $-3.62431e-005 * x^2 + 1.17583 * x + 0.0311451$

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	4.74	52.733	1618.655	0.407	0.3	27.9	NO	0.997	NO	MM
2	2 180110M3_3	Standard	0.500	4.75	80.186	1941.504	0.516	0.4	-17.5	NO	0.997	NO	MM
3	3 180110M3_4	Standard	1.000	4.74	227.959	1895.721	1.503	1.3	25.2	NO	0.997	NO	MM
4	4 180110M3_5	Standard	2.000	4.74	330.437	2275.169	1.815	1.5	-24.1	NO	0.997	NO	MM
5	5 180110M3_6	Standard	5.000	4.74	1373.176	3237.610	5.302	4.5	-10.3	NO	0.997	NO	MM
6	6 180110M3_7	Standard	10.000	4.75	2325.923	2589.350	11.228	9.5	-4.7	NO	0.997	NO	MM
7	7 180110M3_8	Standard	50.000	4.74	13028.005	2649.839	61.457	52.3	4.6	NO	0.997	NO	MM
8	8 180110M3_9	Standard	100.000	4.74	24612.139	2652.518	115.985	98.9	-1.1	NO	0.997	NO	MM
9	9 180110M3_10	Standard	250.000	4.74	94234.469	2938.436	400.870	344.6	37.8	NO	0.997	NO	MMX

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Compound name: PFDA

Coefficient of Determination: $R^2 = 0.999932$

Calibration curve: $0.00546964 * x^2 + 1.60165 * x + -0.235203$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.03	149.694	6621.417	0.283	0.3	29.2	NO	1.000	NO	bbX
2	2 180110M3_3	Standard	0.500	5.03	326.927	7011.031	0.583	0.5	2.0	NO	1.000	NO	bb
3	3 180110M3_4	Standard	1.000	5.03	882.103	7865.675	1.402	1.0	1.9	NO	1.000	NO	bb
4	4 180110M3_5	Standard	2.000	5.03	1805.777	7909.186	2.854	1.9	-4.2	NO	1.000	NO	bb
5	5 180110M3_6	Standard	5.000	5.03	5656.708	8990.281	7.865	5.0	-0.5	NO	1.000	NO	bb
6	6 180110M3_7	Standard	10.000	5.03	11071.540	8394.882	16.486	10.1	0.9	NO	1.000	NO	bb
7	7 180110M3_8	Standard	50.000	5.03	53691.906	7178.136	93.499	50.0	-0.0	NO	1.000	NO	bb
8	8 180110M3_9	Standard	100.000	5.03	106324.383	8067.630	164.739	80.7	-19.3	NO	1.000	NO	bbX
9	9 180110M3_10	Standard	250.000	5.03	334810.344	11784.516	355.138	147.5	-41.0	NO	1.000	NO	bbX

Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.997732$

Calibration curve: $0.00123859 * x^2 + 0.307368 * x + -0.0309813$

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.01	6.878	6621.417	0.013	0.1	-42.8	NO	0.998	NO	MMX
2	2 180110M3_3	Standard	0.500	5.00	69.176	7011.031	0.123	0.5	0.2	NO	0.998	NO	bb
3	3 180110M3_4	Standard	1.000	5.00	143.316	7865.675	0.228	0.8	-16.1	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	5.00	310.839	7909.186	0.491	1.7	-15.6	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	5.00	1255.848	8990.281	1.746	5.7	13.1	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	5.00	2087.793	8394.882	3.109	9.8	-1.7	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	5.00	10583.119	7178.136	18.429	50.0	-0.0	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	5.00	21826.646	8067.630	33.818	82.6	-17.4	NO	0.998	NO	bbX
9	9 180110M3_10	Standard	250.000	5.00	63576.629	11784.516	67.437	140.2	-43.9	NO	0.998	NO	bbX

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Compound name: N-MeFOSAA

Coefficient of Determination: $R^2 = 0.991446$

Calibration curve: $-0.00315911 * x^2 + 2.0555 * x + -0.320574$

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.18	36.415	2584.018	0.176	0.2	-3.3	NO	0.991	NO	MM
2	2 180110M3_3	Standard	0.500	5.18	80.226	2279.408	0.440	0.4	-26.0	NO	0.991	NO	bb
3	3 180110M3_4	Standard	1.000	5.18	378.250	2474.278	1.911	1.1	8.7	NO	0.991	NO	bb
4	4 180110M3_5	Standard	2.000	5.19	712.568	3010.187	2.959	1.6	-20.0	NO	0.991	NO	bb
5	5 180110M3_6	Standard	5.000	5.18	2686.279	4004.625	8.385	4.3	-14.7	NO	0.991	NO	bb
6	6 180110M3_7	Standard	10.000	5.18	4645.245	3453.088	16.816	8.4	-15.5	NO	0.991	NO	bb
7	7 180110M3_8	Standard	50.000	5.18	27682.430	3302.028	104.793	55.9	11.9	NO	0.991	NO	bb
8	8 180110M3_9	Standard	100.000	5.18	50942.434	3769.683	168.921	96.7	-3.3	NO	0.991	NO	bb
9	9 180110M3_10	Standard	250.000	5.18	168432.422	3847.682	547.188			NO	0.991	NO	bbXI

Compound name: N-EtFOSAA

Coefficient of Determination: $R^2 = 0.999097$

Calibration curve: $-0.000915461 * x^2 + 1.58258 * x + -0.401153$

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.33	66.359	3050.200	0.272	0.4	70.2	NO	0.999	NO	bbX
2	2 180110M3_3	Standard	0.500	5.34	73.558	3056.172	0.301	0.4	-11.3	NO	0.999	NO	bb
3	3 180110M3_4	Standard	1.000	5.33	220.973	3257.867	0.848	0.8	-21.0	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	5.34	631.177	3281.707	2.404	1.8	-11.3	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	5.34	2480.533	4319.860	7.178	4.8	-4.0	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	5.34	4016.860	3499.391	14.348	9.4	-6.3	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	5.34	20914.289	3318.419	78.781	51.6	3.1	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	5.33	43324.688	3635.765	148.953	100.2	0.2	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	5.33	130110.156	4818.760	337.509	249.5	-0.2	NO	0.999	NO	bb

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Compound name: PFUDaCoefficient of Determination: $R^2 = 0.997858$ Calibration curve: $-0.000355567 * x^2 + 1.33241 * x + -0.0949136$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.36	175.412	7775.131	0.282	0.3	13.2	NO	0.998	NO	bb
2	2 180110M3_3	Standard	0.500	5.35	241.658	5841.358	0.517	0.5	-8.1	NO	0.998	NO	MM
3	3 180110M3_4	Standard	1.000	5.35	652.062	6821.692	1.195	1.0	-3.2	NO	0.998	NO	MM
4	4 180110M3_5	Standard	2.000	5.35	1465.764	7907.348	2.317	1.8	-9.4	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	5.35	4824.436	9228.782	6.534	5.0	-0.4	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	5.35	11112.005	10040.164	13.834	10.5	4.8	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	5.35	54444.684	9539.813	71.339	54.4	8.8	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	5.35	92094.172	9474.396	121.504	93.6	-6.4	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	5.35	343973.500	13743.283	312.856	251.8	0.7	NO	0.998	NO	bb

Compound name: PFDSCoefficient of Determination: $R^2 = 0.997344$ Calibration curve: $0.000962848 * x^2 + 0.363602 * x + -0.00209133$

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.40	48.906	7775.131	0.079	0.2	-11.3	NO	0.997	NO	MM
2	2 180110M3_3	Standard	0.500	5.41	89.190	5841.358	0.191	0.5	6.0	NO	0.997	NO	bb
3	3 180110M3_4	Standard	1.000	5.40	200.620	6821.692	0.368	1.0	1.4	NO	0.997	NO	bb
4	4 180110M3_5	Standard	2.000	5.40	442.118	7907.348	0.699	1.9	-4.1	NO	0.997	NO	bb
5	5 180110M3_6	Standard	5.000	5.40	1573.748	9228.782	2.132	5.8	15.6	NO	0.997	NO	bb
6	6 180110M3_7	Standard	10.000	5.40	2755.989	10040.164	3.431	9.2	-7.8	NO	0.997	NO	bb
7	7 180110M3_8	Standard	50.000	5.40	15734.462	9539.813	20.617	50.1	0.1	NO	0.997	NO	bb
8	8 180110M3_9	Standard	100.000	5.40	26637.205	9474.396	35.144	79.8	-20.2	NO	0.997	NO	bbX
9	9 180110M3_10	Standard	250.000	5.40	84029.797	13743.283	76.428	150.3	-39.9	NO	0.997	NO	bbX

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998683$

Calibration curve: $0.00180407 * x^2 + 2.09493 * x + 0.150658$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.64	187.793	4189.487	0.560	0.2	-21.8	NO	0.999	NO	MM
2	2 180110M3_3	Standard	0.500	5.64	395.079	3969.021	1.244	0.5	4.4	NO	0.999	NO	bd
3	3 180110M3_4	Standard	1.000	5.64	711.553	4869.713	1.826	0.8	-20.1	NO	0.999	NO	bd
4	4 180110M3_5	Standard	2.000	5.64	1599.483	4575.956	4.369	2.0	0.5	NO	0.999	NO	bd
5	5 180110M3_6	Standard	5.000	5.63	7052.525	6385.208	13.806	6.5	29.6	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	5.64	10897.177	5791.910	23.518	11.0	10.5	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	5.63	62116.109	7164.268	108.378	49.5	-0.9	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	5.64	105146.766	5943.687	221.131	97.3	-2.7	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	5.63	373600.125	7304.709	639.314	250.9	0.4	NO	0.999	NO	bb

Compound name: N-MeFOSA

Correlation coefficient: $r = 0.999537$, $r^2 = 0.999075$

Calibration curve: $1.10666 * x + -0.170034$

Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	1.250	5.71	74.505	10743.257	1.040	1.1	-12.5	NO	0.999	NO	bb
2	2 180110M3_3	Standard	2.500	5.71	176.977	9835.262	2.699	2.6	3.7	NO	0.999	NO	bb
3	3 180110M3_4	Standard	5.000	5.71	344.751	12097.896	4.275	4.0	-19.7	NO	0.999	NO	bb
4	4 180110M3_5	Standard	10.000	5.71	911.162	12431.512	10.994	10.1	0.9	NO	0.999	NO	bb
5	5 180110M3_6	Standard	25.000	5.71	3012.821	16115.154	28.043	25.5	2.0	NO	0.999	NO	bb
6	6 180110M3_7	Standard	50.000	5.71	5797.346	14402.728	60.378	54.7	9.4	NO	0.999	NO	bb
7	7 180110M3_8	Standard	250.000	5.71	29412.832	15466.819	285.251	257.9	3.2	NO	0.999	NO	bb
8	8 180110M3_9	Standard	500.000	5.71	54924.184	14480.274	568.955	514.3	2.9	NO	0.999	NO	bb
9	9 180110M3_10	Standard	1250.000	5.71	171069.844	18952.975	1353.902	1223.6	-2.1	NO	0.999	NO	bb

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Compound name: PFTTrDA

Coefficient of Determination: $R^2 = 0.999460$

Calibration curve: $0.000122781 * x^2 + 2.39065 * x + 0.000840038$

Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	5.88	174.970	4189.487	0.522	0.2	-12.8	NO	0.999	NO	bb
2	2 180110M3_3	Standard	0.500	5.88	376.310	3969.021	1.185	0.5	-0.9	NO	0.999	NO	bb
3	3 180110M3_4	Standard	1.000	5.88	950.586	4869.713	2.440	1.0	2.0	NO	0.999	NO	bb
4	4 180110M3_5	Standard	2.000	5.89	1891.809	4575.956	5.168	2.2	8.1	NO	0.999	NO	bb
5	5 180110M3_6	Standard	5.000	5.88	5659.594	6385.208	11.080	4.6	-7.3	NO	0.999	NO	bb
6	6 180110M3_7	Standard	10.000	5.89	12450.600	5791.910	26.871	11.2	12.3	NO	0.999	NO	bb
7	7 180110M3_8	Standard	50.000	5.88	68696.688	7164.268	119.860	50.0	0.0	NO	0.999	NO	bb
8	8 180110M3_9	Standard	100.000	5.88	112410.352	5943.687	236.407	98.4	-1.6	NO	0.999	NO	bb
9	9 180110M3_10	Standard	250.000	5.88	354589.906	7304.709	606.783	250.6	0.2	NO	0.999	NO	bb

Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999533$

Calibration curve: $0.00349062 * x^2 + 2.93229 * x + -0.154941$

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	6.09	124.998	1955.129	0.799	0.3	30.1	NO	1.000	NO	bbX
2	2 180110M3_3	Standard	0.500	6.10	236.010	1829.135	1.613	0.6	20.5	NO	1.000	NO	bb
3	3 180110M3_4	Standard	1.000	6.10	405.845	2327.717	2.179	0.8	-20.5	NO	1.000	NO	bb
4	4 180110M3_5	Standard	2.000	6.09	1041.416	2174.831	5.986	2.1	4.4	NO	1.000	NO	bb
5	5 180110M3_6	Standard	5.000	6.10	3533.474	3158.222	13.985	4.8	-4.1	NO	1.000	NO	bb
6	6 180110M3_7	Standard	10.000	6.10	6573.327	2821.178	29.125	9.9	-1.3	NO	1.000	NO	bb
7	7 180110M3_8	Standard	50.000	6.09	36266.531	2885.126	157.127	50.6	1.2	NO	1.000	NO	bb
8	8 180110M3_9	Standard	100.000	6.10	68578.852	2620.882	327.079	99.8	-0.2	NO	1.000	NO	db
9	9 180110M3_10	Standard	250.000	6.10	176036.891	3871.496	568.375	162.5	-35.0	NO	1.000	NO	dbX

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999897$

Calibration curve: $-3.00904e-005 * x^2 + 1.02444 * x + -0.199244$

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	1.250	6.10	131.383	16238.895	1.214	1.4	10.3	NO	1.000	NO	bb
2	2 180110M3_3	Standard	2.500	6.11	254.736	15620.249	2.446	2.6	3.3	NO	1.000	NO	bb
3	3 180110M3_4	Standard	5.000	6.10	520.024	17774.992	4.388	4.5	-10.4	NO	1.000	NO	bb
4	4 180110M3_5	Standard	10.000	6.10	1156.534	18942.303	9.158	9.1	-8.6	NO	1.000	NO	bb
5	5 180110M3_6	Standard	25.000	6.10	4408.425	24990.723	26.460	26.0	4.2	NO	1.000	NO	bb
6	6 180110M3_7	Standard	50.000	6.10	7411.040	21510.641	51.679	50.7	1.4	NO	1.000	NO	bb
7	7 180110M3_8	Standard	250.000	6.10	37406.688	22103.201	253.855	249.8	-0.1	NO	1.000	NO	bb
8	8 180110M3_9	Standard	500.000	6.10	71470.891	21279.357	503.804	499.3	-0.1	NO	1.000	NO	bb
9	9 180110M3_10	Standard	1250.000	6.10	207247.922	25200.256	1233.606	1250.3	0.0	NO	1.000	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.997686$

Calibration curve: $-0.00114258 * x^2 + 0.984182 * x + 0.0683094$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	6.43	89.534	1428.470	0.313	0.2	-0.4	NO	0.998	NO	MM
2	2 180110M3_3	Standard	0.500	6.43	149.353	1602.730	0.466	0.4	-19.2	NO	0.998	NO	MM
3	3 180110M3_4	Standard	1.000	6.43	383.028	1624.887	1.179	1.1	13.0	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	6.43	604.669	1502.644	2.012	2.0	-1.0	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	6.43	2370.623	2226.881	5.323	5.4	7.4	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	6.43	3907.469	2045.703	9.550	9.7	-2.6	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	6.43	22137.709	2213.677	50.002	54.1	8.3	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	6.43	40541.285	2470.003	82.067	93.5	-6.5	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	6.43	106609.336	3028.907	175.986	253.1	1.3	NO	0.998	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.997999$

Calibration curve: $-0.00347318 * x^2 + 1.33796 * x + -0.219409$

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	0.250	6.66	89.732	1428.470	0.314	0.4	59.7	NO	0.998	NO	bbX
2	2 180110M3_3	Standard	0.500	6.66	134.672	1602.730	0.420	0.5	-4.3	NO	0.998	NO	bb
3	3 180110M3_4	Standard	1.000	6.66	288.807	1624.887	0.889	0.8	-17.0	NO	0.998	NO	bb
4	4 180110M3_5	Standard	2.000	6.66	713.056	1502.644	2.373	1.9	-2.6	NO	0.998	NO	bb
5	5 180110M3_6	Standard	5.000	6.66	2483.912	2226.881	5.577	4.4	-12.4	NO	0.998	NO	bb
6	6 180110M3_7	Standard	10.000	6.66	5287.183	2045.703	12.923	10.1	0.9	NO	0.998	NO	bb
7	7 180110M3_8	Standard	50.000	6.66	26551.906	2213.677	59.972	52.0	4.0	NO	0.998	NO	bb
8	8 180110M3_9	Standard	100.000	6.66	48357.449	2470.003	97.889	98.5	-1.5	NO	0.998	NO	bb
9	9 180110M3_10	Standard	250.000	6.66	71018.602	3028.907	117.235	135.3	-45.9	NO	0.998	NO	bbX

Compound name: N-MeFOSE

Correlation coefficient: $r = 0.998982$, $r^2 = 0.997965$

Calibration curve: $1.173 * x + -0.745383$

Response type: Internal Std (Ref 52), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	1.250	6.24	132.978	18600.686	1.072	1.5	24.0	NO	0.998	NO	bb
2	2 180110M3_3	Standard	2.500	6.26	224.899	14371.076	2.347	2.6	5.5	NO	0.998	NO	bb
3	3 180110M3_4	Standard	5.000	6.25	520.318	17457.375	4.471	4.4	-11.1	NO	0.998	NO	bb
4	4 180110M3_5	Standard	10.000	6.25	1056.121	18372.555	8.623	8.0	-20.1	NO	0.998	NO	bb
5	5 180110M3_6	Standard	25.000	6.25	4167.101	23253.285	26.881	23.6	-5.8	NO	0.998	NO	bb
6	6 180110M3_7	Standard	50.000	6.25	7847.585	18111.193	64.995	56.0	12.1	NO	0.998	NO	bb
7	7 180110M3_8	Standard	250.000	6.25	44727.859	23087.781	290.594	248.4	-0.7	NO	0.998	NO	bb
8	8 180110M3_9	Standard	500.000	6.25	74536.172	20386.021	548.436	468.2	-6.4	NO	0.998	NO	bb
9	9 180110M3_10	Standard	1250.000	6.25	281086.719	28074.316	1501.836	1281.0	2.5	NO	0.998	NO	bd

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Compound name: N-EtFOSECorrelation coefficient: $r = 0.999540$, $r^2 = 0.999080$ Calibration curve: $1.40177 * x + -0.207477$

Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)

Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	1.250	6.40	179.573	16885.416	1.595	1.3	2.9	NO	0.999	NO	bb
2	2 180110M3_3	Standard	2.500	6.41	310.656	13110.849	3.554	2.7	7.3	NO	0.999	NO	bb
3	3 180110M3_4	Standard	5.000	6.40	739.963	16446.465	6.749	5.0	-0.7	NO	0.999	NO	bb
4	4 180110M3_5	Standard	10.000	6.41	1344.736	16689.393	12.086	8.8	-12.3	NO	0.999	NO	bb
5	5 180110M3_6	Standard	25.000	6.41	5119.930	22391.037	34.299	24.6	-1.5	NO	0.999	NO	bb
6	6 180110M3_7	Standard	50.000	6.41	9741.974	19962.660	73.201	52.4	4.7	NO	0.999	NO	bb
7	7 180110M3_8	Standard	250.000	6.40	52164.645	22425.359	348.922	249.1	-0.4	NO	0.999	NO	bd
8	8 180110M3_9	Standard	500.000	6.40	98149.102	16106.103	914.086	652.2	30.4	NO	0.999	NO	bbX
9	9 180110M3_10	Standard	1250.000	6.40	346314.875	28984.094	1792.267	1278.7	2.3	NO	0.999	NO	bbX

Compound name: 13C3-PFBA

Response Factor: 0.763512

RRF SD: 0.0350184, Relative SD: 4.58648

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	1.33	5445.118	7508.845	9.065	11.9	-5.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	1.34	5531.277	7057.356	9.797	12.8	2.7	NO		NO	bd
3	3 180110M3_4	Standard	12.500	1.34	6197.237	8001.987	9.681	12.7	1.4	NO		NO	bb
4	4 180110M3_5	Standard	12.500	1.34	6682.359	8507.537	9.818	12.9	2.9	NO		NO	bb
5	5 180110M3_6	Standard	12.500	1.33	8645.433	11925.119	9.062	11.9	-5.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	1.34	7475.106	10276.120	9.093	11.9	-4.7	NO		NO	bb
7	7 180110M3_8	Standard	12.500	1.33	8574.918	10906.643	9.828	12.9	3.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	1.34	8087.149	9827.420	10.286	13.5	7.8	NO		NO	bb
9	9 180110M3_10	Standard	12.500	1.34	10724.149	14467.951	9.265	12.1	-2.9	NO		NO	bb

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Compound name: 13C3-PFPeA

Response Factor: 0.730064

RRF SD: 0.0283912, Relative SD: 3.88886

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	2.31	6191.314	8819.409	8.775	12.0	-3.8	NO		NO	bb
2	2 180110M3_3	Standard	12.500	2.32	6388.503	8657.168	9.224	12.6	1.1	NO		NO	bb
3	3 180110M3_4	Standard	12.500	2.31	7240.874	10153.727	8.914	12.2	-2.3	NO		NO	bb
4	4 180110M3_5	Standard	12.500	2.31	7656.253	10362.211	9.236	12.7	1.2	NO		NO	bb
5	5 180110M3_6	Standard	12.500	2.31	10067.521	14579.612	8.632	11.8	-5.4	NO		NO	bb
6	6 180110M3_7	Standard	12.500	2.32	9432.145	12281.571	9.600	13.1	5.2	NO		NO	bb
7	7 180110M3_8	Standard	12.500	2.31	9361.531	12975.809	9.018	12.4	-1.2	NO		NO	bb
8	8 180110M3_9	Standard	12.500	2.31	8984.164	11578.389	9.699	13.3	6.3	NO		NO	bb
9	9 180110M3_10	Standard	12.500	2.32	11738.701	16242.380	9.034	12.4	-1.0	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.0953602

RRF SD: 0.0060334, Relative SD: 6.32696

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	2.59	843.391	8819.409	1.195	12.5	0.3	NO		NO	bb
2	2 180110M3_3	Standard	12.500	2.60	875.797	8657.168	1.265	13.3	6.1	NO		NO	bb
3	3 180110M3_4	Standard	12.500	2.59	894.616	10153.727	1.101	11.5	-7.6	NO		NO	bb
4	4 180110M3_5	Standard	12.500	2.59	1011.215	10362.211	1.220	12.8	2.3	NO		NO	bb
5	5 180110M3_6	Standard	12.500	2.59	1232.651	14579.612	1.057	11.1	-11.3	NO		NO	bb
6	6 180110M3_7	Standard	12.500	2.60	1207.154	12281.571	1.229	12.9	3.1	NO		NO	bb
7	7 180110M3_8	Standard	12.500	2.59	1285.018	12975.809	1.238	13.0	3.9	NO		NO	bb
8	8 180110M3_9	Standard	12.500	2.59	1183.646	11578.389	1.278	13.4	7.2	NO		NO	bb
9	9 180110M3_10	Standard	12.500	2.60	1488.746	16242.380	1.146	12.0	-3.9	NO		NO	bb

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Compound name: 13C2-PFHxA

Response Factor: 0.596765

RRF SD: 0.0287608, Relative SD: 4.81945

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	5.000	3.08	2081.847	8819.409	2.951	4.9	-1.1	NO		NO	bb
2	2 180110M3_3	Standard	5.000	3.09	2064.240	8657.168	2.981	5.0	-0.1	NO		NO	bb
3	3 180110M3_4	Standard	5.000	3.08	2293.726	10153.727	2.824	4.7	-5.4	NO		NO	bb
4	4 180110M3_5	Standard	5.000	3.09	2353.448	10362.211	2.839	4.8	-4.9	NO		NO	bb
5	5 180110M3_6	Standard	5.000	3.09	3551.324	14579.612	3.045	5.1	2.0	NO		NO	bb
6	6 180110M3_7	Standard	5.000	3.09	2750.103	12281.571	2.799	4.7	-6.2	NO		NO	bb
7	7 180110M3_8	Standard	5.000	3.09	3223.589	12975.809	3.105	5.2	4.1	NO		NO	bb
8	8 180110M3_9	Standard	5.000	3.09	2973.789	11578.389	3.210	5.4	7.6	NO		NO	bb
9	9 180110M3_10	Standard	5.000	3.09	4029.222	16242.380	3.101	5.2	3.9	NO		NO	bb

Compound name: 13C4-PFHpA

Response Factor: 0.604292

RRF SD: 0.0220638, Relative SD: 3.65118

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	3.70	5439.776	8819.409	7.710	12.8	2.1	NO		NO	bb
2	2 180110M3_3	Standard	12.500	3.71	5317.372	8657.168	7.678	12.7	1.6	NO		NO	bb
3	3 180110M3_4	Standard	12.500	3.70	6029.103	10153.727	7.422	12.3	-1.7	NO		NO	bb
4	4 180110M3_5	Standard	12.500	3.71	6373.487	10362.211	7.688	12.7	1.8	NO		NO	bb
5	5 180110M3_6	Standard	12.500	3.70	8559.692	14579.612	7.339	12.1	-2.8	NO		NO	bb
6	6 180110M3_7	Standard	12.500	3.71	7383.596	12281.571	7.515	12.4	-0.5	NO		NO	bb
7	7 180110M3_8	Standard	12.500	3.71	7430.805	12975.809	7.158	11.8	-5.2	NO		NO	bb
8	8 180110M3_9	Standard	12.500	3.70	7501.529	11578.389	8.099	13.4	7.2	NO		NO	bb
9	9 180110M3_10	Standard	12.500	3.71	9581.552	16242.380	7.374	12.2	-2.4	NO		NO	bb

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Compound name: 18O2-PFHxS

Response Factor: 0.293143

RRF SD: 0.02198, Relative SD: 7.49804

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	3.85	607.107	2278.692	3.330	11.4	-9.1	NO		NO	bb
2	2 180110M3_3	Standard	12.500	3.85	587.859	2027.751	3.624	12.4	-1.1	NO		NO	bb
3	3 180110M3_4	Standard	12.500	3.85	721.191	2588.349	3.483	11.9	-5.0	NO		NO	MM
4	4 180110M3_5	Standard	12.500	3.85	841.432	2638.712	3.986	13.6	8.8	NO		NO	bb
5	5 180110M3_6	Standard	12.500	3.86	928.808	3243.043	3.580	12.2	-2.3	NO		NO	bb
6	6 180110M3_7	Standard	12.500	3.86	837.404	2945.932	3.553	12.1	-3.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	3.85	881.507	3128.825	3.522	12.0	-3.9	NO		NO	bb
8	8 180110M3_9	Standard	12.500	3.85	947.682	3222.897	3.676	12.5	0.3	NO		NO	bb
9	9 180110M3_10	Standard	12.500	3.85	1189.369	3518.808	4.225	14.4	15.3	NO		NO	bb

Compound name: 13C2-6:2 FTS

Response Factor: 0.215203

RRF SD: 0.0808496, Relative SD: 37.5689

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.17	1482.806	7716.699	2.402	11.2	-10.7	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.17	1155.556	8022.848	1.800	8.4	-33.1	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.17	1397.855	9839.251	1.776	8.3	-34.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.17	1987.587	9158.829	2.713	12.6	0.8	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.17	2364.256	13168.367	2.244	10.4	-16.6	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.17	2119.823	12177.514	2.176	10.1	-19.1	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.17	2466.705	11624.087	2.653	12.3	-1.4	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.17	2650.556	9690.272	3.419	15.9	27.1	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.17	5642.398	14028.530	5.028	23.4	86.9	NO		NO	bb

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Compound name: 13C2-PFOA

Response Factor: 0.915764

RRF SD: 0.0680605, Relative SD: 7.4321

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.22	6843.800	7716.699	11.086	12.1	-3.2	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.23	7076.908	8022.848	11.026	12.0	-3.7	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.22	9304.335	9839.251	11.820	12.9	3.3	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.23	8455.973	9158.829	11.541	12.6	0.8	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.22	11446.934	13168.367	10.866	11.9	-5.1	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.23	10524.176	12177.514	10.803	11.8	-5.6	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.22	9660.232	11624.087	10.388	11.3	-9.3	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.23	10039.607	9690.272	12.951	14.1	13.1	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.23	14076.219	14028.530	12.542	13.7	9.6	NO		NO	bb

Compound name: 13C5-PFNA

Response Factor: 0.817427

RRF SD: 0.0843622, Relative SD: 10.3205

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.66	6595.252	8419.302	9.792	12.0	-4.2	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.66	7834.280	7958.151	12.305	15.1	20.4	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.65	7113.500	8439.292	10.536	12.9	3.1	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.66	7757.888	9727.010	9.970	12.2	-2.4	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.66	10243.467	13224.706	9.682	11.8	-5.2	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.66	8076.588	11503.174	8.776	10.7	-14.1	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.66	10747.179	11865.055	11.322	13.9	10.8	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.66	8749.379	11583.457	9.442	11.6	-7.6	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.66	11695.055	14424.272	10.135	12.4	-0.8	NO		NO	bb

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Compound name: 13C8-PFOSA

Response Factor: 0.222952

RRF SD: 0.0226253, Relative SD: 10.148

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.72	1564.524	7146.186	2.737	12.3	-1.8	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.72	1375.187	6976.103	2.464	11.1	-11.6	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.72	1766.893	8730.687	2.530	11.3	-9.2	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.72	1897.929	8502.860	2.790	12.5	0.1	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.72	2478.382	9392.645	3.298	14.8	18.4	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.72	2100.719	10144.617	2.588	11.6	-7.1	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.72	2311.924	10475.976	2.759	12.4	-1.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.72	2220.110	10176.034	2.727	12.2	-2.1	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.71	2993.427	11733.247	3.189	14.3	14.4	NO		NO	bb

Compound name: 13C8-PFOS

Response Factor: 0.874623

RRF SD: 0.125135, Relative SD: 14.3074

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.74	1618.655	2105.094	9.612	11.0	-12.1	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.74	1941.504	2275.136	10.667	12.2	-2.4	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.74	1895.721	2164.789	10.946	12.5	0.1	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.74	2275.169	1933.818	14.706	16.8	34.5	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.74	3237.610	3714.762	10.894	12.5	-0.4	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.74	2589.350	2811.424	11.513	13.2	5.3	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.74	2649.839	3528.814	9.386	10.7	-14.1	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.74	2652.518	3149.809	10.527	12.0	-3.7	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.74	2938.436	3620.976	10.144	11.6	-7.2	NO		NO	bb

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Compound name: 13C2-PFDA

Response Factor: 1.10533

RRF SD: 0.141708, Relative SD: 12.8204

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 180110M3_2	Standard	12.500	5.03	6621.417	6709.350	12.336	11.2	-10.7	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.04	7011.031	6275.866	13.964	12.6	1.1	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.03	7865.675	5735.000	17.144	15.5	24.1	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.03	7909.186	7379.163	13.398	12.1	-3.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.03	8990.281	8404.810	13.371	12.1	-3.2	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.03	8394.882	6873.380	15.267	13.8	10.5	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.03	7178.136	7852.201	11.427	10.3	-17.3	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.03	8067.630	8147.183	12.378	11.2	-10.4	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.03	11784.516	9778.104	15.065	13.6	9.0	NO		NO	bb

Compound name: 13C2-8:2FTS

Response Factor: 0.100865

RRF SD: 0.0423355, Relative SD: 41.9722

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 180110M3_2	Standard	12.500	5.00	644.281	8819.409	0.913	9.1	-27.6	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.00	889.045	8657.168	1.284	12.7	1.8	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.00	654.053	10153.727	0.805	8.0	-36.1	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.01	773.072	10362.211	0.933	9.2	-26.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.00	975.410	14579.612	0.836	8.3	-33.7	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.00	1012.922	12281.571	1.031	10.2	-18.2	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.00	1364.890	12975.809	1.315	13.0	4.3	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.00	1744.984	11578.389	1.884	18.7	49.4	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.00	3049.447	16242.380	2.347	23.3	86.1	NO		NO	bb

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Compound name: d3-N-MeFOSAA

Response Factor: 0.34512

RRF SD: 0.0402363, Relative SD: 11.6586

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.18	2584.018	7146.186	4.520	13.1	4.8	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.18	2279.408	6976.103	4.084	11.8	-5.3	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.18	2474.278	8730.687	3.543	10.3	-17.9	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.18	3010.187	8502.860	4.425	12.8	2.6	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.18	4004.625	9392.645	5.329	15.4	23.5	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.18	3453.088	10144.617	4.255	12.3	-1.4	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.18	3302.028	10475.976	3.940	11.4	-8.7	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.18	3769.683	10176.034	4.631	13.4	7.3	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.18	3847.682	11733.247	4.099	11.9	-5.0	NO		NO	bb

Compound name: d5-N-EtFOSAA

Response Factor: 0.390404

RRF SD: 0.0471008, Relative SD: 12.0646

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.33	3050.200	7146.186	5.335	13.7	9.3	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.33	3056.172	6976.103	5.476	14.0	12.2	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.33	3257.867	8730.687	4.664	11.9	-4.4	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.33	3281.707	8502.860	4.824	12.4	-1.1	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.33	4319.860	9392.645	5.749	14.7	17.8	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.34	3499.391	10144.617	4.312	11.0	-11.6	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.33	3318.419	10475.976	3.960	10.1	-18.9	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.33	3635.765	10176.034	4.466	11.4	-8.5	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.33	4818.760	11733.247	5.134	13.1	5.2	NO		NO	bb

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Compound name: 13C2-PFUDa

Response Factor: 0.957991

RRF SD: 0.119129, Relative SD: 12.4353

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.35	7775.131	7146.186	13.600	14.2	13.6	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.35	5841.358	6976.103	10.467	10.9	-12.6	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.35	6821.692	8730.687	9.767	10.2	-18.4	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.36	7907.348	8502.860	11.625	12.1	-2.9	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.35	9228.782	9392.645	12.282	12.8	2.6	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.35	10040.164	10144.617	12.371	12.9	3.3	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.35	9539.813	10475.976	11.383	11.9	-4.9	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.35	9474.396	10176.034	11.638	12.1	-2.8	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.35	13743.283	11733.247	14.641	15.3	22.3	NO		NO	bb

Compound name: 13C2-PFDoA

Response Factor: 0.599156

RRF SD: 0.0521603, Relative SD: 8.70563

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.63	4189.487	7146.186	7.328	12.2	-2.2	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.64	3969.021	6976.103	7.112	11.9	-5.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.63	4869.713	8730.687	6.972	11.6	-6.9	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.64	4575.956	8502.860	6.727	11.2	-10.2	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.63	6385.208	9392.645	8.498	14.2	13.5	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.64	5791.910	10144.617	7.137	11.9	-4.7	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.63	7164.268	10475.976	8.548	14.3	14.1	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.63	5943.687	10176.034	7.301	12.2	-2.5	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.64	7304.709	11733.247	7.782	13.0	3.9	NO		NO	bb

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Compound name: d3-N-MeFOSA

Response Factor: 0.124177

RRF SD: 0.00905884, Relative SD: 7.29512

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	150.000	5.73	10743.257	7146.186	18.792	151.3	0.9	NO		NO	bb
2	2 180110M3_3	Standard	150.000	5.73	9835.262	6976.103	17.623	141.9	-5.4	NO		NO	bb
3	3 180110M3_4	Standard	150.000	5.73	12097.896	8730.687	17.321	139.5	-7.0	NO		NO	bb
4	4 180110M3_5	Standard	150.000	5.73	12431.512	8502.860	18.275	147.2	-1.9	NO		NO	bb
5	5 180110M3_6	Standard	150.000	5.73	16115.154	9392.645	21.447	172.7	15.1	NO		NO	bb
6	6 180110M3_7	Standard	150.000	5.73	14402.728	10144.617	17.747	142.9	-4.7	NO		NO	bb
7	7 180110M3_8	Standard	150.000	5.73	15466.819	10475.976	18.455	148.6	-0.9	NO		NO	bb
8	8 180110M3_9	Standard	150.000	5.73	14480.274	10176.034	17.787	143.2	-4.5	NO		NO	bb
9	9 180110M3_10	Standard	150.000	5.73	18952.975	11733.247	20.192	162.6	8.4	NO		NO	bb

Compound name: 13C2-PFTeDA

Response Factor: 0.281715

RRF SD: 0.0301772, Relative SD: 10.712

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	6.10	1955.129	7146.186	3.420	12.1	-2.9	NO		NO	bb
2	2 180110M3_3	Standard	12.500	6.10	1829.135	6976.103	3.278	11.6	-6.9	NO		NO	bb
3	3 180110M3_4	Standard	12.500	6.10	2327.717	8730.687	3.333	11.8	-5.4	NO		NO	bb
4	4 180110M3_5	Standard	12.500	6.10	2174.831	8502.860	3.197	11.3	-9.2	NO		NO	bb
5	5 180110M3_6	Standard	12.500	6.10	3158.222	9392.645	4.203	14.9	19.4	NO		NO	bb
6	6 180110M3_7	Standard	12.500	6.10	2821.178	10144.617	3.476	12.3	-1.3	NO		NO	bb
7	7 180110M3_8	Standard	12.500	6.10	2885.126	10475.976	3.443	12.2	-2.2	NO		NO	bb
8	8 180110M3_9	Standard	12.500	6.10	2620.882	10176.034	3.219	11.4	-8.6	NO		NO	bb
9	9 180110M3_10	Standard	12.500	6.10	3871.496	11733.247	4.124	14.6	17.1	NO		NO	bb

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Compound name: d5-N-ETFOSA

Response Factor: 0.184306

RRF SD: 0.0154361, Relative SD: 8.37525

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	150.000	6.12	16238.895	7146.186	28.405	154.1	2.7	NO		NO	bb
2	2 180110M3_3	Standard	150.000	6.12	15620.249	6976.103	27.989	151.9	1.2	NO		NO	bb
3	3 180110M3_4	Standard	150.000	6.12	17774.992	8730.687	25.449	138.1	-7.9	NO		NO	bb
4	4 180110M3_5	Standard	150.000	6.12	18942.303	8502.860	27.847	151.1	0.7	NO		NO	bb
5	5 180110M3_6	Standard	150.000	6.12	24990.723	9392.645	33.258	180.5	20.3	NO		NO	bb
6	6 180110M3_7	Standard	150.000	6.12	21510.641	10144.617	26.505	143.8	-4.1	NO		NO	bb
7	7 180110M3_8	Standard	150.000	6.11	22103.201	10475.976	26.374	143.1	-4.6	NO		NO	bb
8	8 180110M3_9	Standard	150.000	6.12	21279.357	10176.034	26.139	141.8	-5.5	NO		NO	bb
9	9 180110M3_10	Standard	150.000	6.12	25200.256	11733.247	26.847	145.7	-2.9	NO		NO	bb

Compound name: 13C2-PFHxDA

Response Factor: 0.539833

RRF SD: 0.0687366, Relative SD: 12.7329

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	5.000	6.43	1428.470	7146.186	2.499	4.6	-7.4	NO		NO	bb
2	2 180110M3_3	Standard	5.000	6.43	1602.730	6976.103	2.872	5.3	6.4	NO		NO	bb
3	3 180110M3_4	Standard	5.000	6.43	1624.887	8730.687	2.326	4.3	-13.8	NO		NO	bb
4	4 180110M3_5	Standard	5.000	6.43	1502.644	8502.860	2.209	4.1	-18.2	NO		NO	bb
5	5 180110M3_6	Standard	5.000	6.43	2226.881	9392.645	2.964	5.5	9.8	NO		NO	bb
6	6 180110M3_7	Standard	5.000	6.43	2045.703	10144.617	2.521	4.7	-6.6	NO		NO	bb
7	7 180110M3_8	Standard	5.000	6.43	2213.677	10475.976	2.641	4.9	-2.1	NO		NO	bb
8	8 180110M3_9	Standard	5.000	6.43	2470.003	10176.034	3.034	5.6	12.4	NO		NO	bb
9	9 180110M3_10	Standard	5.000	6.43	3028.907	11733.247	3.227	6.0	19.5	NO		NO	bb

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Compound name: d7-N-MeFOSE

Response Factor: 0.182261

RRF SD: 0.0217695, Relative SD: 11.9442

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	150.000	6.24	18600.686	7146.186	32.536	178.5	19.0	NO		NO	bb
2	2 180110M3_3	Standard	150.000	6.24	14371.076	6976.103	25.751	141.3	-5.8	NO		NO	bb
3	3 180110M3_4	Standard	150.000	6.24	17457.375	8730.687	24.994	137.1	-8.6	NO		NO	bb
4	4 180110M3_5	Standard	150.000	6.24	18372.555	8502.860	27.009	148.2	-1.2	NO		NO	bb
5	5 180110M3_6	Standard	150.000	6.24	23253.285	9392.645	30.946	169.8	13.2	NO		NO	bb
6	6 180110M3_7	Standard	150.000	6.24	18111.193	10144.617	22.316	122.4	-18.4	NO		NO	bb
7	7 180110M3_8	Standard	150.000	6.24	23087.781	10475.976	27.548	151.1	0.8	NO		NO	bb
8	8 180110M3_9	Standard	150.000	6.24	20386.021	10176.034	25.042	137.4	-8.4	NO		NO	bb
9	9 180110M3_10	Standard	150.000	6.24	28074.316	11733.247	29.909	164.1	9.4	NO		NO	bb

Compound name: d9-N-EtFOSE

Response Factor: 0.172538

RRF SD: 0.024293, Relative SD: 14.0798

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	150.000	6.40	16885.416	7146.186	29.536	171.2	14.1	NO		NO	bb
2	2 180110M3_3	Standard	150.000	6.40	13110.848	6976.103	23.492	136.2	-9.2	NO		NO	bb
3	3 180110M3_4	Standard	150.000	6.39	16446.465	8730.687	23.547	136.5	-9.0	NO		NO	bb
4	4 180110M3_5	Standard	150.000	6.39	16689.393	8502.860	24.535	142.2	-5.2	NO		NO	bb
5	5 180110M3_6	Standard	150.000	6.40	22391.037	9392.645	29.799	172.7	15.1	NO		NO	bb
6	6 180110M3_7	Standard	150.000	6.40	19962.660	10144.617	24.598	142.6	-5.0	NO		NO	bb
7	7 180110M3_8	Standard	150.000	6.39	22425.359	10475.976	26.758	155.1	3.4	NO		NO	bb
8	8 180110M3_9	Standard	150.000	6.39	16106.103	10176.034	19.784	114.7	-23.6	NO		NO	bb
9	9 180110M3_10	Standard	150.000	6.39	28984.094	11733.247	30.878	179.0	19.3	NO		NO	bb

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Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 3.92523e-017, Relative SD: 3.92523e-015

Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 180110M3_2	Standard	12.500	1.33	7508.845	7508.845	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	1.34	7057.356	7057.356	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	1.33	8001.987	8001.987	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	1.33	8507.537	8507.537	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	1.33	11925.118	11925.118	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	1.34	10276.120	10276.120	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	1.33	10906.643	10906.643	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	1.34	9827.420	9827.420	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	1.34	14467.951	14467.951	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 180110M3_2	Standard	12.500	3.08	8819.409	8819.409	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	3.09	8657.168	8657.168	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	3.08	10153.727	10153.727	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	3.08	10362.211	10362.211	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	3.08	14579.612	14579.612	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	3.09	12281.571	12281.571	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	3.09	12975.809	12975.809	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	3.08	11578.389	11578.389	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	3.09	16242.380	16242.380	12.500	12.5	0.0	NO		NO	bb

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Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	3.85	2278.692	2278.692	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	3.86	2027.751	2027.751	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	3.85	2588.349	2588.349	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	3.86	2638.712	2638.712	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	3.85	3243.043	3243.043	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	3.86	2945.932	2945.932	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	3.85	3128.825	3128.825	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	3.85	3222.897	3222.897	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	3.85	3518.808	3518.808	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.22	7716.699	7716.699	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.22	8022.848	8022.848	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.22	9839.251	9839.251	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.22	9158.829	9158.829	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.22	13168.367	13168.367	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.23	12177.514	12177.514	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.23	11624.087	11624.087	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.22	9690.272	9690.272	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.23	14028.530	14028.530	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

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Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 8.77708e-017, Relative SD: 8.77708e-015

Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.65	8419.302	8419.302	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.66	7958.151	7958.151	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.65	8439.292	8439.292	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.66	9727.010	9727.010	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.66	13224.706	13224.706	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.66	11503.174	11503.174	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.66	11865.055	11865.055	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.66	11583.457	11583.457	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.66	14424.272	14424.272	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 5.55112e-017, Relative SD: 5.55112e-015

Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	4.74	2105.094	2105.094	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	4.74	2275.136	2275.136	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	4.74	2164.789	2164.789	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	4.74	1933.818	1933.818	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	4.74	3714.762	3714.762	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	4.74	2811.424	2811.424	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	4.74	3528.814	3528.814	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	4.74	3149.809	3149.809	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	4.74	3620.976	3620.976	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

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Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 7.85046e-017, Relative SD: 7.85046e-015

Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.03	6709.350	6709.350	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.03	6275.866	6275.866	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.03	5735.000	5735.000	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.03	7379.163	7379.163	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.03	8404.810	8404.810	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.03	6873.380	6873.380	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.03	7852.201	7852.201	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.03	8147.183	8147.183	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.03	9778.104	9778.104	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C7-PFUDa

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 180110M3_2	Standard	12.500	5.35	7146.186	7146.186	12.500	12.5	0.0	NO		NO	bb
2	2 180110M3_3	Standard	12.500	5.35	6976.103	6976.103	12.500	12.5	0.0	NO		NO	bb
3	3 180110M3_4	Standard	12.500	5.35	8730.687	8730.687	12.500	12.5	0.0	NO		NO	bb
4	4 180110M3_5	Standard	12.500	5.36	8502.860	8502.860	12.500	12.5	0.0	NO		NO	bb
5	5 180110M3_6	Standard	12.500	5.35	9392.645	9392.645	12.500	12.5	0.0	NO		NO	bb
6	6 180110M3_7	Standard	12.500	5.36	10144.617	10144.617	12.500	12.5	0.0	NO		NO	bb
7	7 180110M3_8	Standard	12.500	5.35	10475.976	10475.976	12.500	12.5	0.0	NO		NO	bb
8	8 180110M3_9	Standard	12.500	5.35	10176.034	10176.034	12.500	12.5	0.0	NO		NO	bb
9	9 180110M3_10	Standard	12.500	5.35	11733.247	11733.247	12.500	12.5	0.0	NO		NO	bb

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time

Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818.mdb 09 Jan 2018 10:39:49

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Name: 180110M3_2, Date: 11-Jan-2018, Time: 09:34:02, ID: ST180110M3-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
1	1 PFBA	0.9991	NO	
2	2 PFPeA	0.9994	NO	
3	3 PFBS	0.9996	NO	
4	4 PFHxA	0.9981	NO	
5	5 PFHpA	0.9997	NO	
6	6 L-PFHxS	0.9982	NO	
7	8 6:2 FTS	0.9952	NO	
8	9 L-PFOA	0.9985	NO	
9	11 PFHpS	0.9994	NO	
10	12 PFNA	0.9981	NO	
11	13 PFOSA	0.9987	NO	
12	14 L-PFOS	0.9974	NO	
13	16 PFDA	0.9999	NO	
14	17 8:2 FTS	0.9977	NO	
15	18 N-MeFOSAA	0.9914	NO	
16	19 N-EtFOSAA	0.9991	NO	
17	20 PFUdA	0.9979	NO	
18	21 PFDS	0.9973	NO	
19	22 PFDoA	0.9987	NO	
20	23 N-MeFOSA	0.9991	NO	
21	24 PFTTrDA	0.9995	NO	
22	25 PFTtDA	0.9995	NO	
23	26 N-EtFOSA	0.9999	NO	
24	27 PFHxDA	0.9977	NO	
25	28 PFODA	0.9980	NO	
26	29 N-MeFOSE	0.9980	NO	
27	30 N-EtFOSE	0.9991	NO	
28	31 13C3-PFBA		NO	4.586
29	32 13C3-PFPeA		NO	3.889
30	33 13C3-PFBS		NO	6.327
31	34 13C2-PFHxA		NO	4.819

Work Order 1701802

Dataset: U:\Q4.PRO\results\180110M3\180110M3_crv.qld

Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time

Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

Name: 180110M3_2, Date: 11-Jan-2018, Time: 09:34:02, ID: ST180110M3-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

#	Name	CoD	CoD Flag	%RSD
32	35 13C4-PFHpA		NO	3.651
33	36 18O2-PFHxS		NO	7.498
34	37 13C2-6:2 FTS		NO	37.569
35	38 13C2-PFOA		NO	7.432
36	39 13C5-PFNA		NO	10.320
37	40 13C8-PFOSA		NO	10.148
38	41 13C8-PFOS		NO	14.307
39	42 13C2-PFDA		NO	12.820
40	43 13C2-8:2 FTS		NO	41.972
41	44 d3-N-MeFOSAA		NO	11.659
42	45 d5-N-EtFOSAA		NO	12.065
43	46 13C2-PFUdA		NO	12.435
44	47 13C2-PFDoA		NO	8.706
45	48 d3-N-MeFOSA		NO	7.295
46	49 13C2-PFTeDA		NO	10.712
47	50 d5-N-ETFOSA		NO	8.375
48	51 13C2-PFHxDA		NO	12.733
49	52 d7-N-MeFOSE		NO	11.944
50	53 d9-N-EtFOSE		NO	14.080
51	54 13C4-PFBA		NO	0.000
52	55 13C5-PFHxA		NO	0.000
53	56 13C3-PFHxS		NO	0.000
54	57 13C8-PFOA		NO	0.000
55	58 13C9-PFNA		NO	0.000
56	59 13C4-PFOS		NO	0.000
57	60 13C6-PFDA		NO	0.000
58	61 13C7-PFUdA		NO	0.000

not used

not used

Dataset: Untitled

Last Altered: Thursday, January 11, 2018 15:27:52 Pacific Standard Time

Printed: Thursday, January 11, 2018 15:28:19 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:26:25

Calibration: 11 Jan 2018 15:27:52

Compound name: PFBA

	Name	ID	Acq Date	Acq Time
1	180110M3_1	IPA	11-Jan-18	09:22:51
2	180110M3_2	ST180110M3-1 PFC CS-2 17L2606	11-Jan-18	09:34:02
3	180110M3_3	ST180110M3-2 PFC CS-1 17L2607	11-Jan-18	09:45:13
4	180110M3_4	ST180110M3-3 PFC CS0 17L2608	11-Jan-18	09:56:23
5	180110M3_5	ST180110M3-4 PFC CS1 17L2609	11-Jan-18	10:07:34
6	180110M3_6	ST180110M3-5 PFC CS2 17L2610	11-Jan-18	10:18:46
7	180110M3_7	ST180110M3-6 PFC CS3 17L2611	11-Jan-18	10:29:56
8	180110M3_8	ST180110M3-7 PFC CS4 17L2612	11-Jan-18	10:41:06
9	180110M3_9	ST180110M3-8 PFC CS5 17L2613	11-Jan-18	10:52:18
10	180110M3_10	ST180110M3-9 PFC CS6 17L2710	11-Jan-18	11:03:28
11	180110M3_11	IPA	11-Jan-18	11:14:39
12	180110M3_12	ICV180110M3-1 PFC ICV 17L1201	11-Jan-18	11:25:49

Dataset: U:\Q4.PRO\results\180110M3\180110M3_12.qld

Last Altered: Thursday, January 11, 2018 14:32:59 Pacific Standard Time
Printed: Thursday, January 11, 2018 14:33:41 Pacific Standard Time

④ Not present in SS

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 11:46:18

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Name: 180110M3_12, Date: 11-Jan-2018, Time: 11:25:49, ID: ICV180110M3-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

P/1/18

✓ 8/11/2018

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
1	1 PFBA	213.0 > 168.8	8.27e3	8.56e3		1.38	1.34	12.1	8.24	82.4	NO
2	2 PFPeA	263.1 > 218.9	8.08e3	9.73e3		2.37	2.32	10.4	8.26	82.6	NO
3	3 PFBS	299.0 > 79.7	1.64e3	1.22e3		2.66	2.60	16.8	7.87	78.7	NO
4	4 PFHxA	313.2 > 268.9	9.53e3	2.94e3		3.15	3.09	16.2	8.37	83.7	NO
5	5 PFHpA	363.0 > 318.9	8.72e3	8.24e3		3.78	3.71	13.2	8.07	80.7	NO
6	6 L-PFHxS	398.9 > 79.6	1.31e3	9.86e2		3.94	3.86	16.6	7.93	79.3	NO
7	8 6:2 FTS	427.1 > 407	1.82e3	9.86e2		4.25	4.17	23.0	7.61	76.1	NO
8	9 L-PFOA	413 > 368.7	9.56e3	1.21e4		4.31	4.23	9.91	7.72	77.2	NO
9	11 PFHpS	449 > 80.0	2.06e3	1.21e4		4.42	4.34	2.14	7.38	73.8	NO
10	12 PFNA	463.0 > 418.8	1.08e4	9.71e3		4.81	4.66	13.9	9.82	98.2	NO
11	13 PFOSA	498.1 > 77.8	2.37e3	2.29e3		4.87	4.72	13.0	9.88	98.8	NO
12	14 L-PFOS	499 > 79.9	2.02e3	2.64e3		4.89	4.74	9.54	8.09	80.9	NO
13	16 PFDA	513 > 468.8	8.49e3	9.21e3		5.18	5.03	11.5	7.17	71.7	NO
14	17 8:2 FTS	527 > 506.9	1.74e3	9.21e3		5.15	5.00	2.36	7.55	75.5	NO
15	18 N-MeFOSAA	570.1 > 419	5.07e3	4.15e3		5.32	5.18	15.3	7.67	76.7	NO
16	19 N-EiFOSAA	584.2 > 419	3.88e3	4.38e3		5.48	5.34	11.0	7.26	72.6	NO
17	20 PFUdA	563.0 > 518.9	9.19e3	9.66e3		5.50	5.35	11.9	9.02	90.2	NO
18	21 PFDS	598.8 > 80	2.11e3	9.66e3		5.54	5.40	2.73	7.36	73.6	NO
19	22 PFDoA	612.9 > 569.0	1.00e4	6.35e3		5.77	5.64	19.7	9.27	92.7	NO
20	23 N-MeFOSA	512.1 > 168.9		1.48e4		5.80					NO
21	24 PFTrDA	662.9 > 618.9	9.41e3	6.35e3		6.00	5.88	18.5	7.74	77.4	NO
22	25 PFTeDA	712.9 > 668.8	5.49e3	2.33e3		6.22	6.10	29.5	9.98	99.8	NO
23	26 N-EiFOSA	526.1 > 168.9		2.26e4		6.17					NO
24	27 PFHxDA	813.1 > 768.6		1.99e3		6.53					NO
25	28 PFODA	913.1 > 868.8		1.99e3		6.74					NO
26	29 N-MeFOSE	616.1 > 58.9		2.11e4		6.27					NO
27	30 N-EiFOSE	630.1 > 58.9	7.11e1	1.70e4		6.43	6.40	0.629	0.596	112	YES
28	31 13C3-PFBA	216.1 > 171.8	8.56e3	9.86e3	0.764	1.38	1.34	10.8	14.2	113.7	NO
29	32 13C3-PFPeA	266. > 221.8	9.73e3	1.10e4	0.730	2.37	2.32	11.0	15.1	120.8	NO
30	33 13C3-PFBS	302. > 98.8	1.22e3	1.10e4	0.095	2.77	2.59	1.38	14.5	116.0	NO
31	Work Order 2701802	315 > 269.8	2.94e3	1.10e4	0.597	3.15	3.09	3.33	5.58	111.7	NO

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Dataset: U:\Q4.PRO\results\180110M3\180110M3_12.qld

Last Altered: Thursday, January 11, 2018 14:32:59 Pacific Standard Time

Printed: Thursday, January 11, 2018 14:33:41 Pacific Standard Time

Name: 180110M3_12, Date: 11-Jan-2018, Time: 11:25:49, ID: ICV180110M3-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery	Out
32	35 13C4-PFHpA	367.2 > 321.8	8.24e3	1.10e4	0.604	3.78	3.71	9.33	15.4	123.6	NO	
33	36 18O2-PFHxS	403.0 > 102.6	9.86e2	2.90e3	0.293	3.94	3.86	4.25	14.5	116.0	NO	
34	37 13C2-6.2 FTS	429.1 > 408.9	2.17e3	1.06e4	0.215	4.25	4.18	2.55	11.9	94.8	NO	
35	38 13C2-PFOA	414.9 > 369.7	1.21e4	1.06e4	0.916	4.31	4.23	14.1	15.5	123.6	NO	
36	39 13C5-PFNA	468.2 > 422.9	9.71e3	9.76e3	0.817	4.81	4.66	12.4	15.2	121.7	NO	
37	40 13C8-PFOSA	506.1 > 77.7	2.29e3	9.91e3	0.223	4.87	4.72	2.89	12.9	103.6	NO	
38	41 13C8-PFOS	507.0 > 79.9	2.64e3	2.83e3	0.875	4.89	4.74	11.7	13.3	106.7	NO	
39	42 13C2-PFDA	515.1 > 469.9	9.21e3	7.32e3	1.105	5.18	5.04	15.7	14.2	113.8	NO	
40	43 13C2-8.2 FTS	529.1 > 508.7	1.21e3	1.10e4	0.101	5.15	5.00	1.37	13.6	108.5	NO	
41	44 d3-N-MeFOSAA	573.3 > 419	4.15e3	9.91e3	0.345	5.32	5.18	5.23	15.2	121.3	NO	
42	45 d5-N-EtFOSAA	589.3 > 419	4.38e3	9.91e3	0.390	5.47	5.34	5.53	14.2	113.4	NO	
43	46 13C2-PFUdA	565 > 519.8	9.66e3	9.91e3	0.958	5.49	5.35	12.2	12.7	101.8	NO	
44	47 13C2-PFDoA	615.0 > 569.7	6.35e3	9.91e3	0.599	5.77	5.63	8.01	13.4	107.0	NO	
45	48 d3-N-MeFOSA	515.2 > 168.9	1.48e4	9.91e3	0.124	5.83	5.73	18.6	150	100.1	NO	
46	49 13C2-PFTeDA	714.8 > 669.6	2.33e3	9.91e3	0.282	6.22	6.10	2.94	10.4	83.5	NO	
47	50 d5-N-ETFOA	531.1 > 168.9	2.26e4	9.91e3	0.184	6.18	6.12	28.5	155	103.2	NO	
48	51 13C2-PFHxDA	815 > 769.7	1.99e3	9.91e3	0.540	6.53	6.43	2.52	4.66	93.2	NO	
49	52 d7-N-MeFOSE	623.1 > 58.9	2.11e4	9.91e3	0.182	6.27	6.24	26.6	146	97.2	NO	
50	53 d9-N-EtFOSE	639.2 > 58.8	1.70e4	9.91e3	0.173	6.42	6.39	21.4	124	82.8	NO	
51	54 13C4-PFBA	217. > 171.8	9.86e3	9.86e3	1.000	1.38	1.33	12.5	12.5	100.0	NO	
52	55 13C5-PFHxA	318 > 272.9	1.10e4	1.10e4	1.000	3.15	3.09	12.5	12.5	100.0	NO	
53	56 13C3-PFHxS	401.9 > 79.9	2.90e3	2.90e3	1.000	4.02	3.86	12.5	12.5	100.0	NO	
54	57 13C8-PFOA	421.3 > 376	1.06e4	1.06e4	1.000	4.38	4.22	12.5	12.5	100.0	NO	
55	58 13C9-PFNA	472.2 > 426.9	9.76e3	9.76e3	1.000	4.81	4.66	12.5	12.5	100.0	NO	
56	59 13C4-PFOS	503 > 79.9	2.83e3	2.83e3	1.000	4.89	4.74	12.5	12.5	100.0	NO	
57	60 13C6-PFDA	519.1 > 473.7	7.32e3	7.32e3	1.000	5.18	5.03	12.5	12.5	100.0	NO	
58	61 13C7-PFUdA	570.1 > 524.8	9.91e3	9.91e3	1.000	5.49	5.35	12.5	12.5	100.0	NO	

Dataset: U:\Q4.PRO\results\171215M2\171215M2-3.qld

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Last Altered: Friday, December 15, 2017 17:04:23 Pacific Standard Time
Printed: Friday, December 15, 2017 17:07:55 Pacific Standard TimeMethod: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 15 Dec 2017 11:10:11
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Name: 171215M2_3, Date: 15-Dec-2017, Time: 16:55:37, ID: ST171215M2-1 PFC CS0 17L1406, Description: PFC CS0 17L1406

	# Name	Trace	Area	IS Area	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	9.83e2	1.20e4		1.46	1.40	1.02	1.02	102.2
2	2 PFPeA	263.1 > 218.9	1.20e3	1.58e4		2.41	2.34	0.948	1.03	102.8
3	3 PFBS	299.0 > 79.7	3.11e2	1.88e3		2.70	2.61	2.07	1.03	102.7
4	4 PFHxA	313.2 > 268.9	1.57e3	5.48e3		3.18	3.11	1.43	0.983	98.3
5	5 PFHpA	363.0 > 318.9	1.12e3	1.07e4		3.80	3.74	1.31	1.01	100.6
6	6 L-PFHxS	398.9 > 79.6	2.20e2	1.70e3		4.00	3.89	1.62	0.888	88.8
7	8 6:2 FTS	427.1 > 407	2.63e2	3.30e3		4.26	4.20	0.997	0.943	94.3
8	9 L-PFOA	413 > 368.7	1.43e3	1.48e4		4.32	4.26	1.21	1.08	107.7
9	11 PFHpS	449 > 80.0	2.93e2	1.48e4		4.43	4.37	0.248	1.11	110.7
10	12 PFNA	463.0 > 418.8	1.28e3	1.14e4		4.78	4.70	1.40	1.06	105.5
11	13 PFOSA	498.1 > 77.8	4.35e2	5.22e3		4.81	4.76	1.04	1.30	129.7
12	14 L-PFOS	499 > 79.9	3.02e2	4.24e3		4.83	4.78	0.892	0.970	97.0
13	16 PFDA	513 > 468.8	1.17e3	1.65e4		5.12	5.07	0.888	0.791	79.1
14	17 8:2 FTS	527 > 506.9	2.14e2	1.46e3		5.09	5.05	1.83	0.909	90.9
15	18 N-MeFOSAA	570.1 > 419	7.53e2	6.21e3		5.25	5.23	1.52	1.05	105.4
16	19 N-EtFOSAA	584.2 > 419	3.93e2	5.27e3		5.45	5.38	0.931	0.907	90.7
17	20 PFUDa	563.0 > 518.9	1.15e3	1.14e4		5.44	5.40	1.25	1.23	123.4
18	21 PFDS	598.8 > 80	3.10e2	1.14e4		5.49	5.44	0.339	1.24	123.7
19	22 PFDoA	612.9 > 569.0	1.22e3	6.89e3		5.75	5.68	2.22	1.11	111.1
20	23 N-MeFOSA	512.1 > 168.9	7.34e2			5.80	5.73			
21	24 PFTriDA	662.9 > 618.9	1.16e3	6.89e3		5.97	5.92	2.10	1.04	104.5
22	25 PFTeDA	712.9 > 668.8	9.76e2	7.32e3		6.20	6.13	1.67	1.17	117.2
23	26 N-EtFOSA	526.1 > 168.9	9.37e2			6.16	6.12			
24	27 PFHxDA	813.1 > 768.6	4.04e2	4.15e3		6.50	6.46	0.486	0.844	84.4
25	28 PFODA	913.1 > 868.8	5.97e2	4.15e3		6.75	6.68	0.719	1.06	106.3
26	29 N-MeFOSE	616.1 > 58.9	8.72e2			6.30	6.28			
27	30 N-EtFOSE	630.1 > 58.9	9.97e2			6.42	6.43			
28	31 13C3-PFBA	216.1 > 171.8	1.20e4	1.09e4	1.056	1.46	1.40	13.7	13.0	104.0
29	32 13C3-PFPeA	266. > 221.8	1.58e4	1.50e4	1.044	2.41	2.34	13.1	12.6	100.8
30	33 13C3-PFBS	302. > 98.8	1.88e3	1.50e4	0.124	2.70	2.61	1.57	12.6	100.8
31	34 13C2-PFHxA	315 > 269.8	5.48e3	1.50e4	0.897	3.18	3.11	4.57	5.09	101.9

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Dataset: U:\Q4.PRO\results\171215M2\171215M2-3.qld

Last Altered: Friday, December 15, 2017 17:04:23 Pacific Standard Time

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Name: 171215M2_3, Date: 15-Dec-2017, Time: 16:55:37, ID: ST171215M2-1 PFC CS0 17L1406, Description: PFC CS0 17L1406

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.07e4	1.50e4	0.689	3.80	3.73	8.91	12.9	103.4
33	36 18O2-PFHxS	403.0 > 102.6	1.70e3	3.21e3	0.530	4.00	3.89	6.61	12.5	99.7
34	37 13C2-6:2 FTS	429.1 > 408.9	3.30e3	1.06e4	0.331	4.26	4.21	3.88	11.7	93.8
35	38 13C2-PFOA	414.9 > 369.7	1.48e4	1.06e4	1.316	4.32	4.26	17.4	13.2	105.6
36	39 13C5-PFNA	468.2 > 422.9	1.14e4	1.10e4	1.109	4.78	4.70	12.9	11.6	92.7
37	40 13C8-PFOA	506.1 > 77.7	5.22e3	1.06e4	0.487	4.81	4.75	6.17	12.7	101.5
38	41 13C8-PFOS	507.0 > 79.9	4.24e3	3.55e3	1.163	4.83	4.78	14.9	12.8	102.7
39	42 13C2-PFDA	515.1 > 469.9	1.65e4	8.25e3	1.694	5.12	5.07	25.0	14.8	118.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.46e3	1.50e4	0.141	5.09	5.04	1.22	8.64	69.1
41	44 d3-N-MeFOSAA	573.3 > 419	6.21e3	1.06e4	0.530	5.25	5.22	7.34	13.9	110.9
42	45 d5-N-EtFOSAA	589.3 > 419	5.27e3	1.06e4	0.541	5.45	5.37	6.24	11.5	92.3
43	46 13C2-PFUdA	565 > 519.8	1.14e4	1.06e4	1.351	5.44	5.40	13.5	10.0	80.1
44	47 13C2-PFDoA	615.0 > 569.7	6.89e3	1.06e4	0.765	5.75	5.68	8.15	10.7	85.2
45	48 d3-N-MeFOSA	515.2 > 168.9		1.06e4	0.002	5.80				
46	49 13C2-PFTeDA	714.8 > 669.6	7.32e3	1.06e4	0.771	6.20	6.13	8.66	11.2	89.9
47	50 d5-N-ETFOSA	531.1 > 168.9		1.06e4		6.16				
48	51 13C2-PFHxDA	815 > 769.7	4.15e3	1.06e4	0.978	6.50	6.45	4.91	5.03	100.5
49	52 d7-N-MeFOSE	623.1 > 58.9		1.06e4	0.000	6.30				
50	53 d9-N-EtFOSE	639.2 > 58.8		1.06e4		6.42				
51	54 13C4-PFBA	217. > 171.8	1.09e4	1.09e4	1.000	1.46	1.40	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.50e4	1.50e4	1.000	3.18	3.11	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.21e3	3.21e3	1.000	4.00	3.88	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	1.06e4	1.06e4	1.000	4.32	4.26	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.10e4	1.10e4	1.000	4.78	4.70	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	3.55e3	3.55e3	1.000	4.83	4.78	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	8.25e3	8.25e3	1.000	5.12	5.07	12.5	12.5	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.06e4	1.06e4	1.000	5.44	5.39	12.5	12.5	100.0

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Dataset: U:\Q4.PRO\results\171215M2\171215M2-20.qld

Last Altered: Saturday, December 16, 2017 13:28:49 Pacific Standard Time

Printed: Saturday, December 16, 2017 13:29:20 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 15 Dec 2017 11:10:11

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Name: 171215M2_20, Date: 15-Dec-2017, Time: 20:05:37, ID: ST171215M2-2 PFC CS3 17L0509, Description: PFC CS3 17L0509

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.06e4	1.22e4		1.46	1.39	10.8	10.1	100.7
2	2 PFPeA	263.1 > 218.9	1.22e4	1.68e4		2.41	2.34	9.08	9.92	99.2
3	3 PFBS	299.0 > 79.7	3.33e3	1.97e3		2.70	2.62	21.1	10.4	103.8
4	4 PFHxA	313.2 > 268.9	1.67e4	5.75e3		3.18	3.11	14.5	9.97	99.7
5	5 PFHpA	363.0 > 318.9	1.26e4	1.12e4		3.80	3.74	14.0	10.5	105.0
6	6 L-PFHxS	398.9 > 79.6	2.67e3	1.79e3		4.00	3.88	18.7	9.69	96.9
7	8 6:2 FTS	427.1 > 407	2.43e3	3.09e3		4.26	4.21	9.85	9.38	93.8
8	9 L-PFOA	413 > 368.7	1.21e4	1.65e4		4.32	4.26	9.19	9.87	98.7
9	11 PFHpS	449 > 80.0	3.21e3	1.65e4		4.43	4.37	2.43	9.75	97.5
10	12 PFNA	463.0 > 418.8	1.44e4	1.58e4		4.78	4.69	11.4	9.11	91.1
11	13 PFOSA	498.1 > 77.8	3.67e3	4.58e3		4.81	4.75	10.0	10.5	105.0
12	14 L-PFOS	499 > 79.9	3.63e3	3.86e3		4.83	4.78	11.8	10.5	104.6
13	16 PFDA	513 > 468.8	1.55e4	1.64e4		5.12	5.07	11.8	10.6	106.3
14	17 8:2 FTS	527 > 506.9	2.32e3	1.85e3		5.09	5.04	15.7	7.58	75.8
15	18 N-MeFOSAA	570.1 > 419	7.65e3	5.92e3		5.25	5.22	16.2	11.5	114.6
16	19 N-EtFOSAA	584.2 > 419	4.92e3	5.98e3		5.45	5.37	10.3	9.68	96.8
17	20 PFUDa	563.0 > 518.9	1.23e4	1.79e4		5.44	5.39	8.60	8.72	87.2
18	21 PFDS	598.8 > 80	3.46e3	1.79e4		5.49	5.44	2.41	8.49	84.9
19	22 PFDoA	612.9 > 569.0	1.60e4	8.50e3		5.75	5.67	23.6	11.4	113.6
20	23 N-MeFOSA	512.1 > 168.9	7.16e3			5.80	5.73			
21	24 PFTTrDA	662.9 > 618.9	1.56e4	8.50e3		5.97	5.91	22.9	10.8	107.9
22	25 PFTeDA	712.9 > 668.8	1.14e4	8.50e3		6.20	6.13	16.7	9.66	96.6
23	26 N-EtFOSA	526.1 > 168.9	9.80e3			6.16	6.12			
24	27 PFHxDA	813.1 > 768.6	5.69e3	4.46e3		6.50	6.45	6.39	11.0	110.3
25	28 PFODA	913.1 > 868.8	6.55e3	4.46e3		6.75	6.68	7.35	11.0	110.1
26	29 N-MeFOSE	616.1 > 58.9	8.48e3			6.30	6.28			
27	30 N-EtFOSE	630.1 > 58.9	1.13e4			6.42	6.43			
28	31 13C3-PFBA	216.1 > 171.8	1.22e4	1.18e4	1.056	1.46	1.39	12.9	12.2	97.7
29	32 13C3-PFPeA	266. > 221.8	1.68e4	1.55e4	1.044	2.41	2.34	13.5	13.0	103.6
30	33 13C3-PFBS	302. > 98.8	1.97e3	1.55e4	0.124	2.70	2.62	1.59	12.8	102.3
31	34 13C2-PFHxA	315 > 269.8	5.75e3	1.55e4	0.897	3.18	3.11	4.63	5.17	103.4

(A) Not used.

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Dataset: U:\Q4.PRO\results\171215M2\171215M2-20.qld

Last Altered: Saturday, December 16, 2017 13:28:49 Pacific Standard Time

Printed: Saturday, December 16, 2017 13:29:20 Pacific Standard Time

Name: 171215M2_20, Date: 15-Dec-2017, Time: 20:05:37, ID: ST171215M2-2 PFC CS3 17L0509, Description: PFC CS3 17L0509

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.12e4	1.55e4	0.689	3.80	3.73	9.05	13.1	105.0
33	36 18O2-PFHxS	403.0 > 102.6	1.79e3	3.44e3	0.530	4.00	3.89	6.49	12.2	97.9
34	37 13C2-6:2 FTS	429.1 > 408.9	3.09e3	1.18e4	0.331	4.26	4.21	3.26	9.86	78.8
35	38 13C2-PFOA	414.9 > 369.7	1.65e4	1.18e4	1.316	4.32	4.26	17.4	13.2	106.0
36	39 13C5-PFNA	468.2 > 422.9	1.58e4	1.43e4	1.109	4.78	4.69	13.8	12.4	99.3
37	40 13C8-PFOSA	506.1 > 77.7	4.58e3	1.31e4	0.487	4.81	4.75	4.38	9.00	72.0
38	41 13C8-PFOS	507.0 > 79.9	3.86e3	3.48e3	1.163	4.83	4.78	13.9	11.9	95.3
39	42 13C2-PFDA	515.1 > 469.9	1.64e4	9.96e3	1.694	5.12	5.07	20.6	12.1	97.1
40	43 13C2-8:2 FTS	529.1 > 508.7	1.85e3	1.55e4	0.141	5.09	5.04	1.49	10.6	84.7
41	44 d3-N-MeFOSAA	573.3 > 419	5.92e3	1.31e4	0.530	5.25	5.21	5.65	10.7	85.3
42	45 d5-N-EtFOSAA	589.3 > 419	5.98e3	1.31e4	0.541	5.45	5.37	5.71	10.6	84.6
43	46 13C2-PFUdA	565 > 519.8	1.79e4	1.31e4	1.351	5.44	5.39	17.1	12.7	101.5
44	47 13C2-PFDoA	615.0 > 569.7	8.50e3	1.31e4	0.765	5.75	5.67	8.12	10.6	85.0
45	48 d3-N-MeFOSA	515.2 > 168.9		1.31e4	0.002	5.80				
46	49 13C2-PFTeDA	714.8 > 669.6	8.50e3	1.31e4	0.771	6.20	6.13	8.13	10.5	84.3
47	50 d5-N-ETFOSA	531.1 > 168.9		1.31e4		6.16				
48	51 13C2-PFHxDA	815 > 769.7	4.46e3	1.31e4	0.978	6.50	6.45	4.26	4.36	87.1
49	52 d7-N-MeFOSE	623.1 > 58.9		1.31e4	0.000	6.30				
50	53 d9-N-EtFOSE	639.2 > 58.8		1.31e4		6.42				
51	54 13C4-PFBA	217. > 171.8	1.18e4	1.18e4	1.000	1.46	1.39	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.55e4	1.55e4	1.000	3.18	3.12	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.44e3	3.44e3	1.000	4.00	3.89	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	1.18e4	1.18e4	1.000	4.32	4.26	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.43e4	1.43e4	1.000	4.78	4.69	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	3.48e3	3.48e3	1.000	4.83	4.78	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.96e3	9.96e3	1.000	5.12	5.07	12.5	12.5	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.31e4	1.31e4	1.000	5.44	5.39	12.5	12.5	100.0

Dataset: U:\Q4.PRO\results\171215M2\171215M2-34.qld

Last Altered: Saturday, December 16, 2017 13:32:13 Pacific Standard Time

Printed: Saturday, December 16, 2017 13:32:39 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 15 Dec 2017 11:10:11

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Name: 171215M2_34, Date: 15-Dec-2017, Time: 22:42:06, ID: ST171215M2-3 PFC CS3 17L0509, Description: PFC CS3 17L0509

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.08e4	1.24e4		1.46	1.38	10.9	10.2	101.5
2	2 PFPeA	263.1 > 218.9	1.27e4	1.75e4		2.41	2.34	9.10	9.94	99.4
3	3 PFBS	299.0 > 79.7	3.35e3	2.10e3		2.70	2.62	19.9	9.80	98.0
4	4 PFHxA	313.2 > 268.9	1.64e4	5.69e3		3.18	3.11	14.4	9.88	98.8
5	5 PFHpA	363.0 > 318.9	1.23e4	1.23e4		3.80	3.74	12.6	9.45	94.5
6	6 L-PFHxS	398.9 > 79.6	2.68e3	1.62e3		4.00	3.89	20.7	10.7	107.2
7	8 6:2 FTS	427.1 > 407	2.79e3	3.79e3		4.26	4.21	9.20	8.74	87.4
8	9 L-PFOA	413 > 368.7	1.29e4	1.74e4		4.32	4.26	9.29	9.99	99.9
9	11 PFHpS	449 > 80.0	2.95e3	1.74e4		4.43	4.37	2.12	8.54	85.4
10	12 PFNA	463.0 > 418.8	1.44e4	1.21e4		4.78	4.70	14.8	11.9	118.9
11	13 PFOSA	498.1 > 77.8	3.34e3	4.90e3		4.81	4.75	8.54	9.00	90.0
12	14 L-PFOS	499 > 79.9	3.47e3	4.69e3		4.83	4.78	9.27	8.27	82.7
13	16 PFDA	513 > 468.8	1.55e4	1.54e4		5.12	5.07	12.6	11.3	113.4
14	17 8:2 FTS	527 > 506.9	2.70e3	2.25e3		5.09	5.04	15.0	7.26	72.6
15	18 N-MeFOSAA	570.1 > 419	8.24e3	6.54e3		5.25	5.22	15.8	11.2	111.6
16	19 N-EtFOSAA	584.2 > 419	5.16e3	5.85e3		5.45	5.38	11.0	10.4	103.5
17	20 PFUdA	563.0 > 518.9	1.34e4	1.61e4		5.44	5.39	10.4	10.6	105.7
18	21 PFDS	598.8 > 80	3.36e3	1.61e4		5.49	5.44	2.61	9.18	91.8
19	22 PFDoA	612.9 > 569.0	1.56e4	1.01e4		5.75	5.67	19.3	9.35	93.5
20	23 N-MeFOSA	512.1 > 168.9	7.13e3			5.80	5.73			
21	24 PFTTrDA	662.9 > 618.9	1.48e4	1.01e4		5.97	5.91	18.3	8.66	86.6
22	25 PFTeDA	712.9 > 668.8	1.08e4	8.62e3		6.20	6.13	15.6	9.03	90.3
23	26 N-EtFOSA	526.1 > 168.9	9.90e3			6.16	6.12			
24	27 PFHxDA	813.1 > 768.6	5.09e3	5.17e3		6.50	6.45	4.93	8.50	85.0
25	28 PFODA	913.1 > 868.8	7.72e3	5.17e3		6.75	6.67	7.47	11.2	111.9
26	29 N-MeFOSE	616.1 > 58.9	8.65e3			6.30	6.28			
27	30 N-EtFOSE	630.1 > 58.9	9.46e3			6.42	6.43			
28	31 13C3-PFBA	216.1 > 171.8	1.24e4	1.20e4	1.056	1.46	1.38	13.0	12.3	98.3
29	32 13C3-PFPeA	266. > 221.8	1.75e4	1.44e4	1.044	2.41	2.34	15.1	14.5	115.8
30	33 13C3-PFBS	302. > 98.8	2.10e3	1.44e4	0.124	2.70	2.62	1.82	14.6	116.9
31	34 13C2-PFHxA	315 > 269.8	5.69e3	1.44e4	0.897	3.18	3.11	4.93	5.49	109.9

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Dataset: U:\Q4.PRO\results\171215M2\171215M2-34.qld

Last Altered: Saturday, December 16, 2017 13:32:13 Pacific Standard Time
Printed: Saturday, December 16, 2017 13:32:39 Pacific Standard Time

Name: 171215M2_34, Date: 15-Dec-2017, Time: 22:42:06, ID: ST171215M2-3 PFC CS3 17L0509, Description: PFC CS3 17L0509

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.23e4	1.44e4	0.689	3.80	3.74	10.6	15.4	123.1
33	36 18O2-PFHxS	403.0 > 102.6	1.62e3	3.65e3	0.530	4.00	3.89	5.54	10.5	83.6
34	37 13C2-6:2 FTS	429.1 > 408.9	3.79e3	1.35e4	0.331	4.26	4.21	3.51	10.6	84.9
35	38 13C2-PFOA	414.9 > 369.7	1.74e4	1.35e4	1.316	4.32	4.26	16.1	12.2	97.8
36	39 13C5-PFNA	468.2 > 422.9	1.21e4	1.17e4	1.109	4.78	4.69	13.0	11.7	93.5
37	40 13C8-PFOSA	506.1 > 77.7	4.90e3	1.12e4	0.487	4.81	4.75	5.45	11.2	89.6
38	41 13C8-PFOS	507.0 > 79.9	4.69e3	4.17e3	1.163	4.83	4.78	14.1	12.1	96.7
39	42 13C2-PFDA	515.1 > 469.9	1.54e4	1.10e4	1.694	5.12	5.07	17.6	10.4	83.0
40	43 13C2-8:2 FTS	529.1 > 508.7	2.25e3	1.44e4	0.141	5.09	5.04	1.95	13.8	110.5
41	44 d3-N-MeFOSAA	573.3 > 419	6.54e3	1.12e4	0.530	5.25	5.21	7.28	13.7	109.9
42	45 d5-N-EtFOSAA	589.3 > 419	5.85e3	1.12e4	0.541	5.45	5.37	6.52	12.1	96.5
43	46 13C2-PFUdA	565 > 519.8	1.61e4	1.12e4	1.351	5.44	5.39	17.9	13.2	106.0
44	47 13C2-PFDoA	615.0 > 569.7	1.01e4	1.12e4	0.765	5.75	5.67	11.3	14.7	117.9
45	48 d3-N-MeFOSA	515.2 > 168.9		1.12e4	0.002	5.80				
46	49 13C2-PFTeDA	714.8 > 669.6	8.62e3	1.12e4	0.771	6.20	6.13	9.60	12.4	99.6
47	50 d5-N-ETFOSA	531.1 > 168.9		1.12e4		6.16				
48	51 13C2-PFHxDA	815 > 769.7	5.17e3	1.12e4	0.978	6.50	6.45	5.75	5.88	117.6
49	52 d7-N-MeFOSE	623.1 > 58.9		1.12e4	0.000	6.30				
50	53 d9-N-EtFOSE	639.2 > 58.8		1.12e4		6.42				
51	54 13C4-PFBA	217. > 171.8	1.20e4	1.20e4	1.000	1.46	1.38	12.5	12.5	100.0
52	55 13C5-PFHxA	318 > 272.9	1.44e4	1.44e4	1.000	3.18	3.12	12.5	12.5	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.65e3	3.65e3	1.000	4.00	3.89	12.5	12.5	100.0
54	57 13C8-PFOA	421.3 > 376	1.35e4	1.35e4	1.000	4.32	4.25	12.5	12.5	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.17e4	1.17e4	1.000	4.78	4.69	12.5	12.5	100.0
56	59 13C4-PFOS	503 > 79.9	4.17e3	4.17e3	1.000	4.83	4.78	12.5	12.5	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.10e4	1.10e4	1.000	5.12	5.07	12.5	12.5	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.12e4	1.12e4	1.000	5.44	5.39	12.5	12.5	100.0

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Last Altered: Saturday, December 16, 2017 13:37:51 Pacific Standard Time
Printed: Saturday, December 16, 2017 13:38:31 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_121317.mdb 15 Dec 2017 11:10:11
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-14-17_NEWRS.cdb 15 Dec 2017 10:09:26

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171215M2_3	ST171215M2-1 PFC CS0 17L1406	15-Dec-17	16:55:37
2	171215M2_4	IPA	15-Dec-17	17:06:46
3	171215M2_5	B7L0027-BS1 OPR 0.25	15-Dec-17	17:17:56
4	171215M2_6	B7L0027-BSD1 LCSD 0.25	15-Dec-17	17:29:07
5	171215M2_7	IPA	15-Dec-17	17:40:18
6	171215M2_8	B7L0027-BLK1 Method Blank 0.25	15-Dec-17	17:51:28
7	171215M2_9	1701823-08 OF-WT-FB01-113017 0.1169	15-Dec-17	18:02:39
8	171215M2_10	1701823-01 OF-INF01-113017 0.1203	15-Dec-17	18:13:50
9	171215M2_11	1701823-02 OF-MID01-113017 0.12207	15-Dec-17	18:25:00
10	171215M2_12	1701823-03 OF-EFF01-113017 0.11531	15-Dec-17	18:36:11
11	171215M2_13	1701823-04 OF-WT-INF01-113017 0.11471	15-Dec-17	18:47:22
12	171215M2_14	1701823-05 OF-WT-MID01-113017 0.11099	15-Dec-17	18:58:33
13	171215M2_15	1701823-06 OF-WT-EFF01-113017 0.11752	15-Dec-17	19:09:43
14	171215M2_16	1701823-07 OF-WT-EFF01P-113017 0.11656	15-Dec-17	19:20:54
15	171215M2_17	1701802-01 FC-MW02SR1-NP-20171128 0.2...	15-Dec-17	19:32:05
16	171215M2_18	1701802-02 FC-MW02SR1-P1-20171128 0.26...	15-Dec-17	19:43:15
17	171215M2_19	IPA	15-Dec-17	19:54:26
18	171215M2_20	ST171215M2-2 PFC CS3 17L0509	15-Dec-17	20:05:37
19	171215M2_21	IPA	15-Dec-17	20:16:47
20	171215M2_22	1701802-03 FC-MW02SR1-P2-20171128 0.26...	15-Dec-17	20:27:58
21	171215M2_23	1701802-04 FC-MW02SR1-P3-20171128 0.25...	15-Dec-17	20:39:09
22	171215M2_24	1701802-05 FC-MW02SR1-FRB-20171128 0....	15-Dec-17	20:50:19
23	171215M2_25	1701802-06 FC-MW02IR1-NP-20171128 0.25...	15-Dec-17	21:01:30
24	171215M2_26	1701802-07 FC-MW02IR1-P1-20171128 0.26...	15-Dec-17	21:12:41
25	171215M2_27	1701802-08 FC-MW02IR1-P2-20171128 0.26...	15-Dec-17	21:23:51
26	171215M2_28	1701802-09 FC-MW02IR1-P3-20171128 0.25...	15-Dec-17	21:35:02
27	171215M2_29	1701724-10@5X GENBM-08-SB01-0.5-1-111...	15-Dec-17	21:46:13
28	171215M2_30	1701724-12@5X GENBM-11SD-01-111617 1.35	15-Dec-17	21:57:24
29	171215M2_31	1701724-13@10X GENBM-11SD-02-111617 1...	15-Dec-17	22:08:34
30	171215M2_32	1701724-15@5X GENBM-11SD-03-111617 1.5	15-Dec-17	22:19:45
31	171215M2_33	IPA	15-Dec-17	22:30:56

Dataset: Untitled

Last Altered: Saturday, December 16, 2017 13:37:51 Pacific Standard Time

Printed: Saturday, December 16, 2017 13:38:31 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171215M2_34	ST171215M2-3 PFC CS3 17L0509	15-Dec-17	22:42:06
33	171215M2_35	IPA	15-Dec-17	22:53:17
34	171215M2_36	1701724-14 GENBM-11SD-04-111617 1.44	15-Dec-17	23:04:28
35	171215M2_37	1701758-15@40X IR54-GW16-17D 0.11876	15-Dec-17	23:15:38
36	171215M2_38	1701758-16 IR54-FB-111917 0.11819	15-Dec-17	23:26:49
37	171215M2_39	1701721-02@5X GENBM-SO-Duplicate-02-11...	15-Dec-17	23:38:00
38	171215M2_40	IPA	15-Dec-17	23:49:11
39	171215M2_41	ST171215M2-2 ⁴ PFC CS3 17L0509	16-Dec-17	00:00:22
40	171215M2_42	IPA ^{am} 12/16/17	16-Dec-17	00:11:32

Dataset: U:\Q4.PRO\results\171229M2\171229M2-29.qld

Last Altered: Friday, December 29, 2017 20:29:47 Pacific Standard Time
Printed: Saturday, December 30, 2017 14:16:05 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 29 Dec 2017 15:16:53
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Name: 171229M2_29, Date: 29-Dec-2017, Time: 18:46:14, ID: ST171229M2-11 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.21e4	1.06e4	1.0000		1.47	1.41	14.3	10.461	104.6
2	2 PFPeA	263.1 > 218.9	1.25e4	1.28e4	1.0000		2.35	2.36	12.2	10.239	102.4
3	3 PFBS	299.0 > 79.7	2.94e3	1.74e3	1.0000		2.70	2.64	21.1	9.780	97.8
4	4 PFHxA	313.2 > 268.9	1.49e4	3.85e3	1.0000		3.12	3.12	19.4	10.362	103.6
5	5 PFHpA	363.0 > 318.9	1.30e4	1.08e4	1.0000		3.75	3.74	15.0	9.540	95.4
6	6 L-PFHxS	398.9 > 79.6	2.37e3	1.17e3	1.0000		3.85	3.89	25.4	11.965	119.6
7	8 6:2 FTS	427.1 > 407	3.13e3	1.52e4	1.0000		4.20	4.19	2.58	10.412	104.1
8	9 L-PFOA	413 > 368.7	1.39e4	1.52e4	1.0000		4.25	4.25	11.4	9.381	93.8
9	11 PFHpS	449 > 80.0	3.36e3	1.52e4	1.0000		4.35	4.36	2.77	11.032	110.3
10	12 PFNA	463.0 > 418.8	1.44e4	1.11e4	1.0000		4.70	4.68	16.2	10.427	104.3
11	13 PFOSA	498.1 > 77.8	3.39e3	2.93e3	1.0000		4.81	4.75	14.5	10.843	108.4
12	14 L-PFOS	499 > 79.9	3.08e3	3.26e3	1.0000		4.75	4.76	11.8	8.841	88.4
13	16 PFDA	513 > 468.8	1.16e4	9.13e3	1.0000		5.05	5.05	15.8	10.525	105.2
14	17 8:2 FTS	527 > 506.9	2.90e3	9.13e3	1.0000		5.02	5.02	3.97	12.690	126.9
15	18 N-MeFOSAA	570.1 > 419	7.65e3	5.57e3	1.0000		5.20	5.20	17.2	10.317	103.2
16	19 N-EtFOSAA	584.2 > 419	7.40e3	6.98e3	1.0000		5.42	5.35	13.3	9.947	99.5
17	20 PFUdA	563.0 > 518.9	1.50e4	1.41e4	1.0000		5.35	5.37	13.4	10.791	107.9
18	21 PFDS	598.8 > 80	4.02e3	1.41e4	1.0000		5.50	5.42	3.57	10.037	100.4
19	22 PFDoA	612.9 > 569.0	1.59e4	1.03e4	1.0000		5.70	5.65	19.3	9.042	90.4
20	23 N-MeFOSA	512.1 > 168.9	6.95e3	1.69e4	1.0000		5.77	5.80	61.8	55.529	111.1
21	24 PFTTrDA	662.9 > 618.9	1.65e4	1.03e4	1.0000		5.95	5.89	19.9	11.419	114.2
22	25 PFTeDA	712.9 > 668.8	7.71e3	2.60e3	1.0000		6.16	6.11	37.1	11.090	110.9
23	26 N-EtFOSA	526.1 > 168.9	9.10e3	2.58e4	1.0000		6.15	6.19	52.9	52.987	106.0
24	27 PFHxDA	813.1 > 768.6	4.83e3	2.73e3	1.0000		6.48	6.44	8.84	9.074	90.7
25	28 PFODA	913.1 > 868.8	6.75e3	2.73e3	1.0000		6.70	6.67	12.3	9.014	90.1
26	29 N-MeFOSE	616.1 > 58.9	7.39e3	1.84e4	1.0000		6.30	6.31	60.1	47.063	94.1
27	30 N-EtFOSE	630.1 > 58.9	1.07e4	2.13e4	1.0000		6.42	6.46	75.4	61.474	122.9
28	31 13C3-PFBA	216.1 > 171.8	1.06e4	1.33e4	1.0000	0.783	1.47	1.40	9.95	12.707	101.7
29	32 13C3-PFPeA	266. > 221.8	1.28e4	1.62e4	1.0000	0.807	2.44	2.36	9.87	12.233	97.9
30	33 13C3-PFBS	302. > 98.8	1.74e3	1.62e4	1.0000	0.108	2.70	2.63	1.34	12.405	99.2
31	34 13C2-PFHxA	315 > 269.8	3.85e3	1.62e4	1.0000	0.636	3.20	3.12	2.96	4.663	93.3

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JHA 12/30/2017

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Dataset: U:\Q4.PRO\results\171229M2\171229M2-29.qld

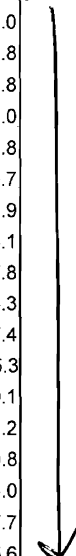
Last Altered: Friday, December 29, 2017 20:29:47 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:16:05 Pacific Standard Time

Name: 171229M2_29, Date: 29-Dec-2017, Time: 18:46:14, ID: ST171229M2-11 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.08e4	1.62e4	1.0000	0.652	3.80	3.74	8.33	12.768	102.1
33	36 18O2-PFHxS	403.0 > 102.6	1.17e3	3.96e3	1.0000	0.321	3.95	3.89	3.69	11.503	92.0
34	37 13C2-6:2 FTS	429.1 > 408.9	3.21e3	1.59e4	1.0000	0.192	4.26	4.19	2.52	13.106	104.8
35	38 13C2-PFOA	414.9 > 369.7	1.52e4	1.59e4	1.0000	0.945	4.32	4.25	11.9	12.600	100.8
36	39 13C5-PFNA	468.2 > 422.9	1.11e4	1.45e4	1.0000	0.832	4.75	4.68	9.57	11.496	92.0
37	40 13C8-PFOA	506.1 > 77.7	2.93e3	1.45e4	1.0000	0.204	4.81	4.74	2.52	12.350	98.8
38	41 13C8-PFOS	507.0 > 79.9	3.26e3	4.11e3	1.0000	0.948	4.83	4.76	9.92	10.461	83.7
39	42 13C2-PFDA	515.1 > 469.9	9.13e3	9.46e3	1.0000	0.986	5.11	5.05	12.1	12.236	97.9
40	43 13C2-8:2 FTS	529.1 > 508.7	1.90e3	1.62e4	1.0000	0.124	5.09	5.02	1.46	11.762	94.1
41	44 d3-N-MeFOSAA	573.3 > 419	5.57e3	1.45e4	1.0000	0.391	5.26	5.20	4.78	12.227	97.8
42	45 d5-N-EtFOSAA	589.3 > 419	6.98e3	1.45e4	1.0000	0.451	5.42	5.35	5.99	13.283	106.3
43	46 13C2-PFUdA	565 > 519.8	1.41e4	1.45e4	1.0000	0.900	5.43	5.37	12.1	13.424	107.4
44	47 13C2-PFDoA	615.0 > 569.7	1.03e4	1.45e4	1.0000	0.617	5.70	5.65	8.89	14.417	115.3
45	48 d3-N-MeFOSA	515.2 > 168.9	1.69e4	1.45e4	1.0000	0.097	5.80	5.82	14.5	148.654	99.1
46	49 13C2-PFTeDA	714.8 > 669.6	2.60e3	1.45e4	1.0000	0.196	6.16	6.11	2.23	11.398	91.2
47	50 d5-N-ETFOSA	531.1 > 168.9	2.58e4	1.45e4	1.0000	0.147	6.16	6.20	22.2	151.263	100.8
48	51 13C2-PFHxDA	815 > 769.7	2.73e3	1.45e4	1.0000	0.435	6.48	6.44	2.35	5.402	108.0
49	52 d7-N-MeFOSE	623.1 > 58.9	1.84e4	1.45e4	1.0000	0.108	6.30	6.31	15.8	146.542	97.7
50	53 d9-N-EtFOSE	639.2 > 58.8	2.13e4	1.45e4	1.0000	0.116	6.42	6.46	18.3	158.363	105.6
51	54 13C4-PFBA	217. > 171.8	1.33e4	1.33e4	1.0000	1.000	1.47	1.40	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.62e4	1.62e4	1.0000	1.000	3.20	3.12	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.96e3	3.96e3	1.0000	1.000	3.95	3.89	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.59e4	1.59e4	1.0000	1.000	4.32	4.25	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.45e4	1.45e4	1.0000	1.000	4.75	4.68	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	4.11e3	4.11e3	1.0000	1.000	4.83	4.76	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.46e3	9.46e3	1.0000	1.000	5.11	5.05	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.45e4	1.45e4	1.0000	1.000	5.43	5.37	12.5	12.500	100.0

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Dataset: U:\Q4.PRO\results\171229M2\171229M2-46.qld

Last Altered: Saturday, December 30, 2017 09:38:50 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:17:20 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 30 Dec 2017 09:38:17

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Name: 171229M2_46, Date: 29-Dec-2017, Time: 21:56:19, ID: ST171229M2-12 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.07e3	1.06e4	1.0000		1.47	1.41	1.26	0.970	97.0
2	2 PFPeA	263.1 > 218.9	1.15e3	1.28e4	1.0000		2.35	2.36	1.12	0.974	97.4
3	3 PFBS	299.0 > 79.7	2.77e2	1.80e3	1.0000		2.70	2.63	1.93	0.918	91.8
4	4 PFHxA	313.2 > 268.9	1.41e3	4.05e3	1.0000		3.12	3.12	1.74	0.948	94.8
5	5 PFHpA	363.0 > 318.9	1.09e3	1.07e4	1.0000		3.75	3.74	1.27	0.861	86.1
6	6 L-PFHxS	398.9 > 79.6	1.73e2	1.47e3	1.0000		3.85	3.89	1.47	0.722	72.2
7	8 6:2 FTS	427.1 > 407	3.53e2	1.39e4	1.0000		4.20	4.19	0.319	1.248	124.8
8	9 L-PFOA	413 > 368.7	1.64e3	1.39e4	1.0000		4.25	4.25	1.48	1.043	104.3
9	11 PFHpS	449 > 80.0	3.32e2	1.39e4	1.0000		4.35	4.36	0.299	1.149	114.9
10	12 PFNA	463.0 > 418.8	1.38e3	1.47e4	1.0000		4.70	4.68	1.18	0.753	75.3
11	13 PFOSA	498.1 > 77.8	2.43e2	3.12e3	1.0000		4.81	4.74	0.976	0.793	79.3
12	14 L-PFOS	499 > 79.9	3.16e2	3.37e3	1.0000		4.75	4.76	1.17	0.961	96.1
13	16 PFDA	513 > 468.8	1.41e3	1.20e4	1.0000		5.05	5.05	1.47	1.015	101.5
14	17 8:2 FTS	527 > 506.9	2.60e2	1.20e4	1.0000		5.02	5.02	0.271	0.986	98.6
15	18 N-MeFOSAA	570.1 > 419	6.27e2	4.69e3	1.0000		5.20	5.20	1.67	1.038	103.8
16	19 N-EtFOSAA	584.2 > 419	6.37e2	7.04e3	1.0000		5.42	5.35	1.13	0.907	90.7
17	20 PFUdA	563.0 > 518.9	1.35e3	1.56e4	1.0000		5.35	5.37	1.08	0.889	88.9
18	21 PFDS	598.8 > 80	3.20e2	1.56e4	1.0000		5.50	5.42	0.256	0.710	71.0
19	22 PFDoA	612.9 > 569.0	1.40e3	1.10e4	1.0000		5.70	5.65	1.60	0.766	76.6
20	23 N-MeFOSA	512.1 > 168.9	6.03e2	1.72e4	1.0000		5.77	5.80	5.27	4.771	95.4
21	24 PFTTrDA	662.9 > 618.9	1.22e3	1.10e4	1.0000		5.95	5.89	1.39	0.748	74.8
22	25 PFTeDA	712.9 > 668.8	8.92e2	3.75e3	1.0000		6.16	6.11	2.97	1.032	103.2
23	26 N-EtFOSA	526.1 > 168.9	7.35e2	2.63e4	1.0000		6.15	6.19	4.20	4.507	90.1
24	27 PFHxDA	813.1 > 768.6	4.96e2	2.99e3	1.0000		6.48	6.44	0.828	0.820	82.0
25	28 PFODA	913.1 > 868.8	5.32e2	2.99e3	1.0000		6.70	6.67	0.889	0.903	90.3
26	29 N-MeFOSE	616.1 > 58.9	8.49e2	2.03e4	1.0000		6.30	6.31	6.27	5.325	106.5
27	30 N-EtFOSE	630.1 > 58.9	7.55e2	1.99e4	1.0000		6.42	6.46	5.70	4.572	91.4
28	31 13C3-PFBA	216.1 > 171.8	1.06e4	1.33e4	1.0000	0.783	1.47	1.40	9.94	12.689	101.5
29	32 13C3-PFPeA	266. > 221.8	1.28e4	1.65e4	1.0000	0.807	2.44	2.36	9.69	12.017	96.1
30	33 13C3-PFBS	302. > 98.8	1.80e3	1.65e4	1.0000	0.108	2.70	2.63	1.36	12.622	101.0
31	34 13C2-PFHxA	315 > 269.8	4.05e3	1.65e4	1.0000	0.636	3.20	3.12	3.07	4.825	96.5

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Dataset: U:\Q4.PRO\results\171229M2\171229M2-46.qld

Last Altered: Saturday, December 30, 2017 09:38:50 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:17:20 Pacific Standard Time

Name: 171229M2_46, Date: 29-Dec-2017, Time: 21:56:19, ID: ST171229M2-12 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.07e4	1.65e4	1.0000	0.652	3.80	3.74	8.14	12.477	99.8
33	36 18O2-PFHxS	403.0 > 102.6	1.47e3	4.35e3	1.0000	0.321	3.95	3.89	4.23	13.176	105.4
34	37 13C2-6:2 FTS	429.1 > 408.9	2.93e3	1.31e4	1.0000	0.192	4.26	4.20	2.78	14.497	116.0
35	38 13C2-PFOA	414.9 > 369.7	1.39e4	1.31e4	1.0000	0.945	4.32	4.25	13.2	13.957	111.7
36	39 13C5-PFNA	468.2 > 422.9	1.47e4	1.70e4	1.0000	0.832	4.75	4.68	10.8	12.972	103.8
37	40 13C8-PFOSA	506.1 > 77.7	3.12e3	1.61e4	1.0000	0.204	4.81	4.74	2.41	11.840	94.7
38	41 13C8-PFOS	507.0 > 79.9	3.37e3	3.99e3	1.0000	0.948	4.83	4.76	10.5	11.130	89.0
39	42 13C2-PFDA	515.1 > 469.9	1.20e4	1.24e4	1.0000	0.986	5.11	5.05	12.1	12.238	97.9
40	43 13C2-8:2 FTS	529.1 > 508.7	1.82e3	1.65e4	1.0000	0.124	5.09	5.02	1.38	11.096	88.8
41	44 d3-N-MeFOSAA	573.3 > 419	4.69e3	1.61e4	1.0000	0.391	5.26	5.20	3.63	9.293	74.3
42	45 d5-N-EtFOSAA	589.3 > 419	7.04e3	1.61e4	1.0000	0.451	5.42	5.35	5.45	12.086	96.7
43	46 13C2-PFUdA	565 > 519.8	1.56e4	1.61e4	1.0000	0.900	5.43	5.37	12.1	13.430	107.4
44	47 13C2-PFDoA	615.0 > 569.7	1.10e4	1.61e4	1.0000	0.617	5.70	5.65	8.49	13.764	110.1
45	48 d3-N-MeFOSA	515.2 > 168.9	1.72e4	1.61e4	1.0000	0.097	5.80	5.82	13.3	136.415	90.9
46	49 13C2-PFTeDA	714.8 > 669.6	3.75e3	1.61e4	1.0000	0.196	6.16	6.11	2.91	14.834	118.7
47	50 d5-N-ETFOSA	531.1 > 168.9	2.63e4	1.61e4	1.0000	0.147	6.16	6.20	20.4	138.790	92.5
48	51 13C2-PFHxDA	815 > 769.7	2.99e3	1.61e4	1.0000	0.435	6.48	6.44	2.32	5.332	106.6
49	52 d7-N-MeFOSE	623.1 > 58.9	2.03e4	1.61e4	1.0000	0.108	6.30	6.31	15.7	145.567	97.0
50	53 d9-N-EtFOSE	639.2 > 58.8	1.99e4	1.61e4	1.0000	0.116	6.42	6.46	15.4	133.203	88.8
51	54 13C4-PFBA	217. > 171.8	1.33e4	1.33e4	1.0000	1.000	1.47	1.40	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.65e4	1.65e4	1.0000	1.000	3.20	3.12	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.35e3	4.35e3	1.0000	1.000	3.95	3.89	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.31e4	1.31e4	1.0000	1.000	4.32	4.25	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.70e4	1.70e4	1.0000	1.000	4.75	4.68	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	3.99e3	3.99e3	1.0000	1.000	4.83	4.76	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.24e4	1.24e4	1.0000	1.000	5.11	5.05	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.61e4	1.61e4	1.0000	1.000	5.43	5.37	12.5	12.500	100.0

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(A) PFDoA 270%; not used

Dataset: U:\Q4.PRO\results\171229M2\171229M2-66.qld

Last Altered: Saturday, December 30, 2017 09:40:54 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:18:33 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 30 Dec 2017 09:38:17

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Name: 171229M2_66, Date: 30-Dec-2017, Time: 01:40:17, ID: ST171229M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

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	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.21e4	1.09e4	1.0000		1.47	1.41	13.9	10.184	101.8
2	2 PFPeA	263.1 > 218.9	1.17e4	1.28e4	1.0000		2.35	2.37	11.4	9.577	95.8
3	3 PFBS	299.0 > 79.7	3.10e3	1.76e3	1.0000		2.70	2.64	22.1	10.225	102.3
4	4 PFHxA	313.2 > 268.9	1.44e4	4.01e3	1.0000		3.12	3.13	18.0	9.613	96.1
5	5 PFHpA	363.0 > 318.9	1.37e4	1.06e4	1.0000		3.75	3.74	16.1	10.252	102.5
6	6 L-PFHxS	398.9 > 79.6	2.10e3	1.26e3	1.0000		3.85	3.89	20.8	9.833	98.3
7	8 6:2 FTS	427.1 > 407	3.55e3	1.70e4	1.0000		4.20	4.20	2.61	10.540	105.4
8	9 L-PFOA	413 > 368.7	1.62e4	1.70e4	1.0000		4.25	4.26	11.9	9.796	98.0
9	11 PFHpS	449 > 80.0	3.91e3	1.70e4	1.0000		4.35	4.36	2.88	11.476	114.8
10	12 PFNA	463.0 > 418.8	1.64e4	1.32e4	1.0000		4.70	4.69	15.5	9.965	99.7
11	13 PFOSA	498.1 > 77.8	3.21e3	3.06e3	1.0000		4.81	4.75	13.1	9.831	98.3
12	14 L-PFOS	499 > 79.9	3.63e3	3.53e3	1.0000		4.75	4.76	12.8	9.602	96.0
13	16 PFDA	513 > 468.8	1.47e4	1.12e4	1.0000		5.05	5.06	16.4	10.910	109.1
14	17 8:2 FTS	527 > 506.9	3.16e3	1.12e4	1.0000		5.02	5.02	3.52	11.325	113.2
15	18 N-MeFOSAA	570.1 > 419	8.43e3	6.28e3	1.0000		5.20	5.20	16.8	10.082	100.8
16	19 N-EtFOSAA	584.2 > 419	6.42e3	5.04e3	1.0000		5.42	5.36	15.9	11.933	119.3
17	20 PFUDa	563.0 > 518.9	1.75e4	1.69e4	1.0000		5.35	5.37	12.9	10.453	104.5
18	21 PFDS	598.8 > 80	4.38e3	1.69e4	1.0000		5.50	5.42	3.23	9.115	91.1
19	22 PFDoA	612.9 > 569.0	1.21e4	1.31e4	1.0000		5.70	5.65	11.5	5.447	54.5
20	23 N-MeFOSA	512.1 > 168.9	7.06e3	1.76e4	1.0000		5.77	5.80	60.1	54.032	108.1
21	24 PFTTrDA	662.9 > 618.9	1.33e4	1.31e4	1.0000		5.95	5.90	12.6	7.241	72.4
22	25 PFTeDA	712.9 > 668.8	8.90e3	3.65e3	1.0000		6.16	6.11	30.5	9.071	90.7
23	26 N-EtFOSA	526.1 > 168.9	9.04e3	2.55e4	1.0000		6.15	6.19	53.2	53.307	106.6
24	27 PFHxDA	813.1 > 768.6	6.16e3	3.19e3	1.0000		6.48	6.44	9.67	9.948	99.5
25	28 PFODA	913.1 > 868.8	9.12e3	3.19e3	1.0000		6.70	6.67	14.3	10.027	100.3
26	29 N-MeFOSE	616.1 > 58.9	7.68e3	1.84e4	1.0000		6.30	6.32	62.6	48.951	97.9
27	30 N-EtFOSE	630.1 > 58.9	9.10e3	2.11e4	1.0000		6.42	6.47	64.7	52.778	105.6
28	31 13C3-PFBA	216.1 > 171.8	1.09e4	1.39e4	1.0000	0.783	1.47	1.41	9.75	12.444	99.6
29	32 13C3-PFPeA	266. > 221.8	1.28e4	1.60e4	1.0000	0.807	2.44	2.36	10.0	12.397	99.2
30	33 13C3-PFBS	302. > 98.8	1.76e3	1.60e4	1.0000	0.108	2.70	2.64	1.38	12.753	102.0
31	34 13C2-PFHxA	315 > 269.8	4.01e3	1.60e4	1.0000	0.636	3.20	3.13	3.14	4.934	98.7

70-130

No samples affected.

50-150

Dataset: U:\Q4.PRO\results\171229M2\171229M2-66.qld

Last Altered: Saturday, December 30, 2017 09:40:54 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:18:33 Pacific Standard Time

Name: 171229M2_66, Date: 30-Dec-2017, Time: 01:40:17, ID: ST171229M2-13 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.06e4	1.60e4	1.0000	0.652	3.80	3.74	8.33	12.769	102.2
33	36 18O2-PFHxS	403.0 > 102.6	1.26e3	3.20e3	1.0000	0.321	3.95	3.89	4.93	15.362	122.9
34	37 13C2-6:2 FTS	429.1 > 408.9	3.30e3	1.62e4	1.0000	0.192	4.26	4.20	2.55	13.277	106.2
35	38 13C2-PFOA	414.9 > 369.7	1.70e4	1.62e4	1.0000	0.945	4.32	4.25	13.1	13.859	110.9
36	39 13C5-PFNA	468.2 > 422.9	1.32e4	1.58e4	1.0000	0.832	4.75	4.69	10.5	12.587	100.7
37	40 13C8-PFOSA	506.1 > 77.7	3.06e3	1.63e4	1.0000	0.204	4.81	4.75	2.35	11.508	92.1
38	41 13C8-PFOS	507.0 > 79.9	3.53e3	4.23e3	1.0000	0.948	4.83	4.77	10.5	11.030	88.2
39	42 13C2-PFDA	515.1 > 469.9	1.12e4	1.13e4	1.0000	0.986	5.11	5.06	12.4	12.586	100.7
40	43 13C2-8:2 FTS	529.1 > 508.7	2.10e3	1.60e4	1.0000	0.124	5.09	5.03	1.64	13.195	105.6
41	44 d3-N-MeFOSAA	573.3 > 419	6.28e3	1.63e4	1.0000	0.391	5.26	5.20	4.81	12.302	98.4
42	45 d5-N-ElFOSAA	589.3 > 419	5.04e3	1.63e4	1.0000	0.451	5.42	5.35	3.86	8.552	68.4
43	46 13C2-PFUDa	565 > 519.8	1.69e4	1.63e4	1.0000	0.900	5.43	5.37	12.9	14.378	115.0
44	47 13C2-PFDoA	615.0 > 569.7	1.31e4	1.63e4	1.0000	0.617	5.70	5.65	10.0	16.280	130.2
45	48 d3-N-MeFOSA	515.2 > 168.9	1.76e4	1.63e4	1.0000	0.097	5.80	5.83	13.5	138.377	92.3
46	49 13C2-PFTeDA	714.8 > 669.6	3.65e3	1.63e4	1.0000	0.196	6.16	6.11	2.80	14.272	114.2
47	50 d5-N-ETFOSA	531.1 > 168.9	2.55e4	1.63e4	1.0000	0.147	6.16	6.20	19.5	133.087	88.7
48	51 13C2-PFHxDA	815 > 769.7	3.19e3	1.63e4	1.0000	0.435	6.48	6.44	2.44	5.610	112.2
49	52 d7-N-MeFOSE	623.1 > 58.9	1.84e4	1.63e4	1.0000	0.108	6.30	6.31	14.1	130.389	86.9
50	53 d9-N-ElFOSE	639.2 > 58.8	2.11e4	1.63e4	1.0000	0.116	6.42	6.46	16.1	139.702	93.1
51	54 13C4-PFBA	217. > 171.8	1.39e4	1.39e4	1.0000	1.000	1.47	1.41	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.60e4	1.60e4	1.0000	1.000	3.20	3.13	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	3.20e3	3.20e3	1.0000	1.000	3.95	3.89	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.62e4	1.62e4	1.0000	1.000	4.32	4.25	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.58e4	1.58e4	1.0000	1.000	4.75	4.69	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	4.23e3	4.23e3	1.0000	1.000	4.83	4.76	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.13e4	1.13e4	1.0000	1.000	5.11	5.06	12.5	12.500	100.0
58	61 13C7-PFUDa	570.1 > 524.8	1.63e4	1.63e4	1.0000	1.000	5.43	5.37	12.5	12.500	100.0

50-150



Dataset: Untitled

Last Altered: Saturday, December 30, 2017 14:34:40 Pacific Standard Time
Printed: Saturday, December 30, 2017 14:35:25 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917.mdb 30 Dec 2017 09:38:17
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-17_FULL.cdb 29 Dec 2017 16:04:07

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	171229M2_1	IPA	29-Dec-17	13:20:29
2	171229M2_2	ST171229M2-1 PFC CS-2 17L2606	29-Dec-17	13:31:42
3	171229M2_3	ST171229M2-2 PFC CS-1 17L2607	29-Dec-17	13:42:53
4	171229M2_4	ST171229M2-3 PFC CS0 17L2608	29-Dec-17	13:54:04
5	171229M2_5	ST171229M2-4 PFC CS1 17L2609	29-Dec-17	14:05:15
6	171229M2_6	ST171229M2-5 PFC CS2 17L2610	29-Dec-17	14:16:26
7	171229M2_7	ST171229M2-6 PFC CS3 17L2611	29-Dec-17	14:27:38
8	171229M2_8	ST171229M2-7 PFC CS4 17L2612	29-Dec-17	14:38:48
9	171229M2_9	ST171229M2-8 PFC CS5 17L2613	29-Dec-17	14:49:59
10	171229M2_10	ST171229M2-9 PFC CS6 17L2710	29-Dec-17	15:01:10
11	171229M2_11	ST171229M2-10 PFC CS7 17L1804	29-Dec-17	15:12:20
12	171229M2_12	IPA	29-Dec-17	15:23:31
13	171229M2_13	ICV171229M2-1 PFC ICV 17L2907	29-Dec-17	15:34:42
14	171229M2_14	ICV171229M2-2 PFC ICV 17L1201	29-Dec-17	15:54:47
15	171229M2_15	IPA		
16	171229M2_16	B7L0125-BS1 OPR 0.25	29-Dec-17	16:20:48
17	171229M2_17	B7L0125-BSD1 LCSD 0.25	29-Dec-17	16:31:57
18	171229M2_18	B7L0125-BLK1 Method Blank 0.25	29-Dec-17	16:43:08
19	171229M2_19	1701850-01 REEPDW022 0.11501	29-Dec-17	16:54:19
20	171229M2_20	1701850-02 REEPDW023 0.11853	29-Dec-17	17:05:30
21	171229M2_21	1701850-03 REEPDW024 0.117	29-Dec-17	17:16:48
22	171229M2_22	1701850-04 REEPDW025 0.11877	29-Dec-17	17:27:59
23	171229M2_23	1701850-05 REEPDW026 0.1191	29-Dec-17	17:39:09
24	171229M2_24	1701850-06 REEPDW027 0.12081	29-Dec-17	17:50:20
25	171229M2_25	1701850-07 REEPDW028 0.11799	29-Dec-17	18:01:31
26	171229M2_26	1701850-08 REEPDW029 0.12009	29-Dec-17	18:12:42
27	171229M2_27	1701850-10 REEPDW502 0.09932	29-Dec-17	18:23:52
28	171229M2_28	IPA	29-Dec-17	18:35:03
29	171229M2_29	ST171229M2-11 PFC CS3 17L2611	29-Dec-17	18:46:14
30	171229M2_30	IPA	29-Dec-17	18:57:24
31	171229M2_31	1701850-11 REEPDW031 0.11718	29-Dec-17	19:08:35

Dataset: Untitled

Last Altered: Saturday, December 30, 2017 14:34:40 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:35:25 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	171229M2_32	1701850-12 REEPDW032 0.11903	29-Dec-17	19:19:45
33	171229M2_33	1701850-13 REEPDW033 0.12087	29-Dec-17	19:30:56
34	171229M2_34	1701850-14 REEPDW034 0.12073	29-Dec-17	19:42:07
35	171229M2_35	1701940-01 REEPDWO40FRB 0.11341	29-Dec-17	19:53:18
36	171229M2_36	1701940-02 REEPDW041FRB 0.11678	29-Dec-17	20:04:31
37	171229M2_37	1701940-03 REEPDW042FRB 0.11364	29-Dec-17	20:15:44
38	171229M2_38	1701802-01RE1 FC-MW02SR1-NP-20171128...	29-Dec-17	20:26:54
39	171229M2_39	1701802-02RE1 FC-MW02SR1-P1-20171128 ...	29-Dec-17	20:38:04
40	171229M2_40	1701802-03RE1 FC-MW02SR1-P2-20171128 ...	29-Dec-17	20:49:15
41	171229M2_41	1701802-04RE1 FC-MW02SR1-P3-20171128 ...	29-Dec-17	21:00:26
42	171229M2_42	1701802-05RE1 FC-MW02SR1-FRB-2017112...	29-Dec-17	21:11:37
43	171229M2_43	1701802-06RE1 FC-MW02IR1-NP-20171128 ...	29-Dec-17	21:22:47
44	171229M2_44	1701802-07RE1 FC-MW02IR1-P1-20171128 ...	29-Dec-17	21:33:58
45	171229M2_45	IPA	29-Dec-17	21:45:09
46	171229M2_46	ST171229M2-12 PFC CS0 17L2608	29-Dec-17	21:56:19
47	171229M2_47	IPA	29-Dec-17	22:07:32
48	171229M2_48	1701802-08RE1 FC-MW02IR1-P2-20171128 ...	29-Dec-17	22:18:51
49	171229M2_49	1701802-09RE1 FC-MW02IR1-P3-20171128 ...	29-Dec-17	22:30:05
50	171229M2_50	IPA	29-Dec-17	22:41:16
51	171229M2_51	B7L0171-BS1 OPR 0.25	29-Dec-17	22:52:26
52	171229M2_52	IPA	29-Dec-17	23:03:37
53	171229M2_53	B7L0171-BLK1 Method Blank 0.25	29-Dec-17	23:14:47
54	171229M2_54	B7L0171-MS1 Matrix Spike 0.25217	29-Dec-17	23:25:59
55	171229M2_55	B7L0171-MSD1 Matrix Spike Dup 0.2644	29-Dec-17	23:37:09
56	171229M2_56	1701929-01 SB01 0.26085	29-Dec-17	23:48:20
57	171229M2_57	1701929-02 EB01 0.26531	29-Dec-17	23:59:31
58	171229M2_58	1701929-03 UXOSite11-GW-GMMW04-20171...	30-Dec-17	00:10:41
59	171229M2_59	1701929-04 UXOSite11-GW-GMMW08-20171...	30-Dec-17	00:21:52
60	171229M2_60	1701929-05 UXOSite11-GW-GMMW10-20171...	30-Dec-17	00:33:02
61	171229M2_61	1701929-06 IRSite13-GW-BUAMW011-20171...	30-Dec-17	00:44:13
62	171229M2_62	1701929-07 IRSite13-GW-BUAMW015-20171...	30-Dec-17	00:55:25
63	171229M2_63	1701929-08 IRSite13-GW-BUAMW012-20171...	30-Dec-17	01:06:43
64	171229M2_64	1701929-09 IRSite13-GW-BUAMW016-20171...	30-Dec-17	01:17:53
65	171229M2_65	IPA	30-Dec-17	01:29:05

Dataset: Untitled

Last Altered: Saturday, December 30, 2017 14:34:40 Pacific Standard Time
Printed: Saturday, December 30, 2017 14:35:25 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
66	171229M2_66	ST171229M2-13 PFC CS3 17L2611	30-Dec-17	01:40:17
67	171229M2_67	IPA	30-Dec-17	01:51:27
68	171229M2_68	1701929-10 DUP01 27034	30-Dec-17	02:02:42
69	171229M2_69	1701929-11 IRSite13-GW-BUAMW010-20171...	30-Dec-17	02:14:01
70	171229M2_70	1701929-12 IRSite13-GW-BUAMW002-20171...	30-Dec-17	02:25:16
71	171229M2_71	1701943-01 WI-A06-6-S-04-1217 0.125	30-Dec-17	02:36:26
72	171229M2_72	1701943-03 WI-A06-6-S-19-1217 0.12062	30-Dec-17	02:47:37
73	171229M2_73	1701943-05 WI-A06-6-S-19P-1217 0.11997	30-Dec-17	02:58:48
74	171229M2_74	1701943-07 WI-A06-6-S-31-1217 0.12406	30-Dec-17	03:09:59
75	171229M2_75	1701943-09 WI-A06-EB07-121117 0.12057	30-Dec-17	03:21:10
76	171229M2_76	1701943-11 WI-A06-6-S-08-1217 0.12355	30-Dec-17	03:32:20
77	171229M2_77	1701943-13 WI-A06-EB08-121217 0.12255	30-Dec-17	03:43:31
78	171229M2_78	IPA	30-Dec-17	03:54:41
79	171229M2_79	ST171229M2-14 PFC CS0 17L2608	30-Dec-17	04:05:52
80	171229M2_80	IPA	30-Dec-17	04:17:05
81	171229M2_81	B7L0092-MS1@20X Matrix Spike 16.49	30-Dec-17	04:28:22
82	171229M2_82	B7L0092-MSD1@20X Matrix Spike Dup 16.11	30-Dec-17	04:39:32
83	171229M2_83	1701841-01@20X OF-SLG01-1217 17.61	30-Dec-17	04:50:43
84	171229M2_84	1701841-02@20X OF-SLG02-1217 10.1	30-Dec-17	05:01:54
85	171229M2_85	1701841-03@20X OF-SLG02P-1217 6.48	30-Dec-17	05:13:05
86	171229M2_86	1701841-04@10X OF-SLG03-1217 11.57	30-Dec-17	05:24:15
87	171229M2_87	1701841-05@10X OF-SLG04-1217 5.07	30-Dec-17	05:35:26
88	171229M2_88	B7L0073-MS1@5X Matrix Spike 0.24032	30-Dec-17	05:46:37
89	171229M2_89	B7L0073-MSD1@5X Matrix Spike Dup 0.25539	30-Dec-17	05:57:47
90	171229M2_90	1701829-04@5X FT-MW08I-20171129 0.2616	30-Dec-17	06:08:58
91	171229M2_91	IPA	30-Dec-17	06:20:09
92	171229M2_92	B7K0027-BLK1 Method Blank 1	30-Dec-17	06:31:20
93	171229M2_93	B7L0069-BLK1 Method Blank 1	30-Dec-17	06:42:30
94	171229M2_94	B7L0069-BS2 OPR 1	30-Dec-17	06:53:41
95	171229M2_95	B7L0069-BS3 OPR 1	30-Dec-17	07:04:51
96	171229M2_96	B7L0069-BS4 OPR 1	30-Dec-17	07:16:02
97	171229M2_97	B7L0069-BS5 OPR 1	30-Dec-17	07:27:13
98	171229M2_98	B7K0027-BS1 OPR 1	30-Dec-17	07:38:24
99	171229M2_99	B7K0027-BS2 OPR 1	30-Dec-17	07:49:34

Dataset: Untitled

Last Altered: Saturday, December 30, 2017 14:34:40 Pacific Standard Time

Printed: Saturday, December 30, 2017 14:35:25 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
100	171229M2_100	B7K0027-BS3 OPR 1	30-Dec-17	08:00:45
101	171229M2_101	B7K0027-BS4 OPR 1	30-Dec-17	08:11:55
102	171229M2_102	IPA	30-Dec-17	08:23:07
103	171229M2_103	ST171229M2-15 PFC CS3 17L2611	30-Dec-17	08:34:17
104	171229M2_104	IPA	30-Dec-17	08:45:28
105	171229M2_105	B7L0072-BS1 OPR 3	30-Dec-17	08:56:39
106	171229M2_106	B7L0181-BS1 OPR 1	30-Dec-17	09:07:50
107	171229M2_107	IPA	30-Dec-17	09:19:01
108	171229M2_108	B7L0072-BLK1 Method Blank 3	30-Dec-17	09:30:12
109	171229M2_109	B7L0181-BLK1 Method Blank 1	30-Dec-17	09:41:22
110	171229M2_110	1701617-01 1644210 1.2	30-Dec-17	09:52:33
111	171229M2_111	1701618-01 103017B 3	30-Dec-17	10:03:44
112	171229M2_112	1701629-01 102017A 3	30-Dec-17	10:14:55
113	171229M2_113	1701629-01RE1 102017A 1	30-Dec-17	10:26:05
114	171229M2_114	IPA	30-Dec-17	10:37:16
115	171229M2_115	ST171229M2-16 PFC CS3 17L2611	30-Dec-17	10:48:27
116	171229M2_116	IPA	30-Dec-17	10:59:39

Dataset: U:\Q4.PRO\results\180104M1\180104M1-01.qld

Last Altered: Friday, January 05, 2018 08:39:00 Pacific Standard Time

Printed: Friday, January 05, 2018 08:57:11 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Name: 180104M1_01, Date: 05-Jan-2018, Time: 00:52:35, ID: ST180104M1-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

AC
1/5/18
VJA-01/05/2018

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp.	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.20e3	1.17e4	1.0000		1.47	1.34	1.28	0.981	98.1
2	2 PFPeA	263.1 > 218.9	1.23e3	1.40e4	1.0000		2.40	2.30	1.10	0.923	92.3
3	3 PFBS	299.0 > 79.7	2.74e2	1.71e3	1.0000		2.70	2.58	2.00	0.986	98.6
4	4 PFHxA	313.2 > 268.9	1.57e3	4.27e3	1.0000		3.12	3.07	1.84	0.986	98.6
5	5 PFHpA	363.0 > 318.9	1.22e3	1.08e4	1.0000		3.75	3.69	1.41	0.939	93.9
6	6 L-PFHxS	398.9 > 79.6	1.82e2	1.49e3	1.0000		3.92	3.84	1.52	0.778	77.8
7	8 6:2 FTS	427.1 > 407	3.25e2	1.52e4	1.0000		4.20	4.15	0.267	0.986	98.6
8	9 L-PFOA	413 > 368.7	1.60e3	1.52e4	1.0000		4.25	4.21	1.31	0.872	87.2
9	11 PFHpS	449 > 80.0	2.78e2	1.52e4	1.0000		4.35	4.32	0.228	0.998	99.8
10	12 PFNA	463.0 > 418.8	1.52e3	1.43e4	1.0000		4.70	4.65	1.33	0.947	94.7
11	13 PFOSA	498.1 > 77.8	4.91e2	4.25e3	1.0000		4.81	4.71	1.44	1.077	107.7
12	14 L-PFOS	499 > 79.9	3.84e2	4.15e3	1.0000		4.83	4.73	1.16	1.103	110.3
13	16 PFDA	513 > 468.8	1.46e3	1.31e4	1.0000		5.05	5.02	1.39	0.934	93.4
14	17 8:2 FTS	527 > 506.9	4.06e2	4.15e3	1.0000		5.02	4.99	1.22	0.985	98.5
15	18 N-MeFOSAA	570.1 > 419	7.25e2	6.30e3	1.0000		5.20	5.17	1.44	0.951	95.1
16	19 N-EtFOSAA	584.2 > 419	6.20e2	7.61e3	1.0000		5.42	5.33	1.02	0.830	83.0
17	20 PFUDa	563.0 > 518.9	1.48e3	1.50e4	1.0000		5.35	5.35	1.23	1.041	104.1
18	21 PFDS	598.8 > 80	3.79e2	1.50e4	1.0000		5.50	5.40	0.316	0.995	99.5
19	22 PFDoA	612.9 > 569.0	1.69e3	8.99e3	1.0000		5.70	5.63	2.35	1.040	104.0
20	23 N-MeFOSA	512.1 > 168.9	7.74e2	2.26e4	1.0000		5.77	5.75	5.14	4.669	93.4
21	24 PFTrDA	662.9 > 618.9	1.24e3	3.79e3	1.0000		5.95	5.88	4.10	0.807	80.7
22	25 PFTeDA	712.9 > 668.8	7.29e2	3.79e3	1.0000		6.16	6.09	2.41	0.772	77.2
23	26 N-EtFOSA	526.1 > 168.9	1.03e3	3.25e4	1.0000		6.15	6.16	4.74	4.689	93.8
24	27 PFHxDA	813.1 > 768.6	6.08e2	2.85e3	1.0000		6.48	6.43	1.07	0.992	99.2
25	28 PFODA	913.1 > 868.8	6.55e2	2.85e3	1.0000		6.70	6.66	1.15	1.035	103.5
26	29 N-MeFOSE	616.1 > 58.9	9.47e2	3.28e4	1.0000		6.30	6.31	4.33	3.905	78.1
27	30 N-EtFOSE	630.1 > 58.9	1.47e3	3.13e4	1.0000		6.42	6.46	7.06	5.387	107.7
28	31 13C3-PFBA	216.1 > 171.8	1.17e4	1.50e4	1.0000	0.775	1.47	1.34	9.77	12.615	100.9
29	32 13C3-PFPeA	266. > 221.8	1.40e4	1.74e4	1.0000	0.805	2.44	2.30	10.1	12.544	100.4
30	33 13C3-PFBS	302. > 98.8	1.71e3	1.74e4	1.0000	0.106	2.70	2.58	1.23	11.576	92.6
31	Work Order PFHxS	315 > 269.8	4.27e3	1.74e4	1.0000	0.633	3.20	3.07	3.07	4.857	97.1

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Dataset: U:\Q4.PRO\results\180104M1\180104M1-01.qld

Last Altered: Friday, January 05, 2018 08:39:00 Pacific Standard Time

Printed: Friday, January 05, 2018 08:57:11 Pacific Standard Time

Name: 180104M1_01, Date: 05-Jan-2018, Time: 00:52:35, ID: ST180104M1-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.08e4	1.74e4	1.0000	0.641	3.80	3.69	7.78	12.136	97.1
33	36 18O2-PFHxS	403.0 > 102.6	1.49e3	4.49e3	1.0000	0.334	3.95	3.84	4.15	12.409	99.3
34	37 13C2-6:2 FTS	429.1 > 408.9	3.57e3	1.78e4	1.0000	0.228	4.26	4.15	2.50	10.971	87.8
35	38 13C2-PFOA	414.9 > 369.7	1.52e4	1.78e4	1.0000	0.959	4.32	4.21	10.7	11.128	89.0
36	39 13C5-PFNA	468.2 > 422.9	1.43e4	1.67e4	1.0000	0.830	4.75	4.65	10.7	12.846	102.8
37	40 13C8-PFOSA	506.1 > 77.7	4.25e3	1.71e4	1.0000	0.262	4.81	4.71	3.10	11.821	94.6
38	41 13C8-PFOS	507.0 > 79.9	4.15e3	4.70e3	1.0000	0.880	4.83	4.73	11.0	12.548	100.4
39	42 13C2-PFDA	515.1 > 469.9	1.31e4	1.17e4	1.0000	0.995	5.11	5.02	14.0	14.048	112.4
40	43 13C2-8:2 FTS	529.1 > 508.7	1.48e3	1.74e4	1.0000	0.142	5.09	4.99	1.06	7.485	59.9
41	44 d3-N-MeFOSAA	573.3 > 419	6.30e3	1.71e4	1.0000	0.376	5.26	5.17	4.60	12.238	97.9
42	45 d5-N-EtFOSAA	589.3 > 419	7.61e3	1.71e4	1.0000	0.444	5.42	5.33	5.55	12.520	100.2
43	46 13C2-PFUDa	565 > 519.8	1.50e4	1.71e4	1.0000	0.889	5.43	5.35	10.9	12.316	98.5
44	47 13C2-PFDoA	615.0 > 569.7	8.99e3	1.71e4	1.0000	0.542	5.70	5.63	6.56	12.097	96.8
45	48 d3-N-MeFOSA	515.2 > 168.9	2.26e4	1.71e4	1.0000	0.117	5.80	5.78	16.5	141.349	94.2
46	49 13C2-PFTeDA	714.8 > 669.6	3.79e3	1.71e4	1.0000	0.230	6.16	6.10	2.76	11.998	96.0
47	50 d5-N-ETFOSA	531.1 > 168.9	3.25e4	1.71e4	1.0000	0.170	6.16	6.17	23.7	139.590	93.1
48	51 13C2-PFHxDA	815 > 769.7	2.85e3	1.71e4	1.0000	0.432	6.48	6.43	2.08	4.804	96.1
49	52 d7-N-MeFOSE	623.1 > 58.9	3.28e4	1.71e4	1.0000	0.161	6.30	6.30	23.9	148.464	99.0
50	53 d9-N-EtFOSE	639.2 > 58.8	3.13e4	1.71e4	1.0000	0.158	6.42	6.45	22.8	144.955	96.6
51	54 13C4-PFBA	217. > 171.8	1.50e4	1.50e4	1.0000	1.000	1.47	1.34	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.74e4	1.74e4	1.0000	1.000	3.20	3.07	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.49e3	4.49e3	1.0000	1.000	3.95	3.84	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.78e4	1.78e4	1.0000	1.000	4.32	4.21	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.67e4	1.67e4	1.0000	1.000	4.75	4.65	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	4.70e3	4.70e3	1.0000	1.000	4.83	4.73	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.17e4	1.17e4	1.0000	1.000	5.11	5.02	12.5	12.500	100.0
58	61 13C7-PFUDa	570.1 > 524.8	1.71e4	1.71e4	1.0000	1.000	5.43	5.34	12.5	12.500	100.0

Dataset: U:\Q4.PRO\results\180104M1\180104M1-36.qld

Last Altered: Friday, January 05, 2018 09:07:01 Pacific Standard Time

Printed: Friday, January 05, 2018 09:07:24 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 03 Jan 2018 12:34:09

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Name: 180104M1_36, Date: 05-Jan-2018, Time: 07:24:10, ID: ST180104M1-3 PFC CS3 17L2611, Description: PFC CS3 17L2611

AC 1/5/18
JA 01/05/2018

	#	Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
1	1	PFBA	213.0 > 168.8	1.34e4	1.18e4	1.0000		1.47	1.34	14.1	10.083	100.8
2	2	PFPeA	263.1 > 218.9	1.40e4	1.35e4	1.0000		2.40	2.30	12.9	10.387	103.9
3	3	PFBS	299.0 > 79.7	3.26e3	1.77e3	1.0000		2.70	2.59	23.0	10.495	105.0
4	4	PFHxA	313.2 > 268.9	1.72e4	4.40e3	1.0000		3.12	3.07	19.5	10.429	104.3
5	5	PFHpA	363.0 > 318.9	1.35e4	1.04e4	1.0000		3.75	3.69	16.1	10.093	100.9
6	6	L-PFHxS	398.9 > 79.6	2.29e3	1.31e3	1.0000		3.92	3.84	21.8	10.906	109.1
7	8	6:2 FTS	427.1 > 407	3.66e3	1.47e4	1.0000		4.20	4.15	3.11	10.182	101.8
8	9	L-PFOA	413 > 368.7	1.47e4	1.47e4	1.0000		4.25	4.21	12.5	9.794	97.9
9	11	PFHpS	449 > 80.0	4.01e3	1.47e4	1.0000		4.35	4.32	3.40	11.328	113.3
10	12	PFNA	463.0 > 418.8	1.71e4	1.37e4	1.0000		4.70	4.65	15.5	10.823	108.2
11	13	PFOSA	498.1 > 77.8	4.55e3	4.58e3	1.0000		4.81	4.70	12.4	9.170	91.7
12	14	L-PFOS	499 > 79.9	3.67e3	3.78e3	1.0000		4.83	4.73	12.2	11.837	118.4
13	16	PFDA	513 > 468.8	1.43e4	1.26e4	1.0000		5.05	5.02	14.1	8.669	86.7
14	17	8:2 FTS	527 > 506.9	3.39e3	3.78e3	1.0000		5.02	4.99	11.2	9.037	90.4
15	18	N-MeFOSAA	570.1 > 419	1.01e4	6.43e3	1.0000		5.20	5.17	19.6	10.052	100.5
16	19	N-EtFOSAA	584.2 > 419	7.51e3	7.19e3	1.0000		5.42	5.33	13.1	9.881	98.8
17	20	PFUdA	563.0 > 518.9	1.58e4	1.46e4	1.0000		5.35	5.34	13.6	10.626	106.3
18	21	PFDS	598.8 > 80	4.25e3	1.46e4	1.0000		5.50	5.39	3.65	10.357	103.6
19	22	PFDoA	612.9 > 569.0	1.77e4	8.04e3	1.0000		5.70	5.63	27.5	11.235	112.4
20	23	N-MeFOSA	512.1 > 168.9	9.06e3	2.26e4	1.0000		5.77	5.75	60.2	53.620	107.2
21	24	PFTTrDA	662.9 > 618.9	1.45e4	3.22e3	1.0000		5.95	5.87	56.5	10.066	100.7
22	25	PFTeDA	712.9 > 668.8	7.10e3	3.22e3	1.0000		6.16	6.09	27.6	8.426	84.3
23	26	N-EtFOSA	526.1 > 168.9	1.16e4	3.29e4	1.0000		6.15	6.15	53.0	51.960	103.9
24	27	PFHxDA	813.1 > 768.6	5.57e3	2.69e3	1.0000		6.48	6.43	10.4	9.840	98.4
25	28	PFODA	913.1 > 868.8	7.45e3	2.69e3	1.0000		6.70	6.66	13.9	12.215	122.2
26	29	N-MeFOSE	616.1 > 58.9	1.32e4	3.32e4	1.0000		6.30	6.31	59.9	50.897	101.8
27	30	N-EtFOSE	630.1 > 58.9	1.36e4	3.41e4	1.0000		6.42	6.45	59.9	47.932	95.9
28	31	13C3-PFBA	216.1 > 171.8	1.18e4	1.50e4	1.0000	0.775	1.47	1.33	9.83	12.686	101.5
29	32	13C3-PFPeA	266. > 221.8	1.35e4	1.76e4	1.0000	0.805	2.44	2.30	9.62	11.947	95.6
30	33	13C3-PFBS	302. > 98.8	1.77e3	1.76e4	1.0000	0.106	2.70	2.59	1.26	11.863	94.9
31	Work Order 2701802	315 > 269.8	4.40e3	1.76e4	1.0000	0.633		3.20	3.07	3.13	4.950	99.0

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Dataset: U:\Q4.PRO\results\180104M1\180104M1-36.qld

Last Altered: Friday, January 05, 2018 09:07:01 Pacific Standard Time

Printed: Friday, January 05, 2018 09:07:24 Pacific Standard Time

Name: 180104M1_36, Date: 05-Jan-2018, Time: 07:24:10, ID: ST180104M1-3 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred RT	RT	y Axis Resp	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.04e4	1.76e4	1.0000	0.641	3.80	3.69	7.43	11.594	92.8
33	36 18O2-PFHxS	403.0 > 102.6	1.31e3	4.28e3	1.0000	0.334	3.95	3.84	3.83	11.475	91.8
34	37 13C2-6:2 FTS	429.1 > 408.9	3.58e3	1.85e4	1.0000	0.228	4.26	4.15	2.41	10.579	84.6
35	38 13C2-PFOA	414.9 > 369.7	1.47e4	1.85e4	1.0000	0.959	4.32	4.21	9.93	10.349	82.8
36	39 13C5-PFNA	468.2 > 422.9	1.37e4	1.73e4	1.0000	0.830	4.75	4.65	9.92	11.952	95.6
37	40 13C8-PFOSA	506.1 > 77.7	4.58e3	1.54e4	1.0000	0.262	4.81	4.71	3.71	14.135	113.1
38	41 13C8-PFOS	507.0 > 79.9	3.78e3	4.60e3	1.0000	0.880	4.83	4.73	10.3	11.656	93.2
39	42 13C2-PFDA	515.1 > 469.9	1.26e4	1.17e4	1.0000	0.995	5.11	5.01	13.5	13.545	108.4
40	43 13C2-8:2 FTS	529.1 > 508.7	1.98e3	1.76e4	1.0000	0.142	5.09	4.99	1.41	9.929	79.4
41	44 d3-N-MeFOSAA	573.3 > 419	6.43e3	1.54e4	1.0000	0.376	5.26	5.17	5.21	13.865	110.9
42	45 d5-N-EtFOSAA	589.3 > 419	7.19e3	1.54e4	1.0000	0.444	5.42	5.32	5.82	13.131	105.0
43	46 13C2-PFUdA	565 > 519.8	1.46e4	1.54e4	1.0000	0.889	5.43	5.34	11.8	13.269	106.2
44	47 13C2-PFDoA	615.0 > 569.7	8.04e3	1.54e4	1.0000	0.542	5.70	5.63	6.51	12.007	96.1
45	48 d3-N-MeFOSA	515.2 > 168.9	2.26e4	1.54e4	1.0000	0.117	5.80	5.77	18.3	157.060	104.7
46	49 13C2-PFTeDA	714.8 > 669.6	3.22e3	1.54e4	1.0000	0.230	6.16	6.09	2.61	11.314	90.5
47	50 d5-N-ETFOSA	531.1 > 168.9	3.29e4	1.54e4	1.0000	0.170	6.16	6.17	26.7	157.066	104.7
48	51 13C2-PFHxDA	815 > 769.7	2.69e3	1.54e4	1.0000	0.432	6.48	6.43	2.18	5.043	100.9
49	52 d7-N-MeFOSE	623.1 > 58.9	3.32e4	1.54e4	1.0000	0.161	6.30	6.30	26.9	166.568	111.0
50	53 d9-N-EtFOSE	639.2 > 58.8	3.41e4	1.54e4	1.0000	0.158	6.42	6.45	27.6	175.171	116.8
51	54 13C4-PFBA	217. > 171.8	1.50e4	1.50e4	1.0000	1.000	1.47	1.33	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	1.76e4	1.76e4	1.0000	1.000	3.20	3.07	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	4.28e3	4.28e3	1.0000	1.000	3.95	3.84	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.85e4	1.85e4	1.0000	1.000	4.32	4.21	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	1.73e4	1.73e4	1.0000	1.000	4.75	4.64	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	4.60e3	4.60e3	1.0000	1.000	4.83	4.73	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	1.17e4	1.17e4	1.0000	1.000	5.11	5.01	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.54e4	1.54e4	1.0000	1.000	5.43	5.34	12.5	12.500	100.0

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① 8:2 FTS < 70%, not used.

Dataset: U:\Q4.PRO\results\180104M1\180104M1-58.qld

Last Altered: Friday, January 05, 2018 12:59:49 Pacific Standard Time

Printed: Friday, January 05, 2018 13:01:20 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 05 Jan 2018 10:33:24

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Name: 180104M1_58, Date: 05-Jan-2018, Time: 11:35:31, ID: ST180104M1-4 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp	Conc.	%Rec
1	1 PFBA	213.0 > 168.8	1.35e3	1.33e4	1.0000		1.47	1.34	1.27	0.978	97.8
2	2 PFPeA	263.1 > 218.9	1.45e3	1.58e4	1.0000		2.40	2.31	1.15	0.963	96.3
3	3 PFBS	299.0 > 79.7	3.31e2	2.24e3	1.0000		2.70	2.59	1.85	0.915	91.5
4	4 PFHxA	313.2 > 268.9	1.79e3	4.85e3	1.0000		3.12	3.08	1.85	0.991	99.1
5	5 PFHpA	363.0 > 318.9	1.33e3	1.20e4	1.0000		3.75	3.69	1.39	0.923	92.3
6	6 L-PFHxS	398.9 > 79.6	1.64e2	1.50e3	1.0000		3.92	3.84	1.37	0.701	70.1
7	8 6:2 FTS	427.1 > 407	3.00e2	1.61e4	1.0000		4.20	4.16	0.233	0.876	87.6
8	9 L-PFOA	413 > 368.7	1.53e3	1.61e4	1.0000		4.25	4.21	1.19	0.778	77.8
9	11 PFHpS	449 > 80.0	4.09e2	1.61e4	1.0000		4.35	4.32	0.319	1.288	128.8
10	12 PFNA	463.0 > 418.8	1.55e3	1.60e4	1.0000		4.70	4.65	1.21	0.868	86.8
11	13 PFOSA	498.1 > 77.8	5.41e2	4.59e3	1.0000		4.81	4.70	1.47	1.099	109.9
12	14 L-PFOS	499 > 79.9	4.13e2	4.86e3	1.0000		4.83	4.73	1.06	1.010	101.0
13	16 PFDA	513 > 468.8	1.26e3	1.34e4	1.0000		5.05	5.02	1.18	0.808	80.8
14	17 8:2 FTS	527 > 506.9	2.89e2	4.86e3	1.0000		5.02	4.99	0.744	0.592	59.2
15	18 N-MeFOSAA	570.1 > 419	8.73e2	7.41e3	1.0000		5.20	5.17	1.47	0.968	96.8
16	19 N-EtFOSAA	584.2 > 419	8.55e2	8.45e3	1.0000		5.42	5.33	1.26	1.016	101.6
17	20 PFUdA	563.0 > 518.9	1.37e3	1.45e4	1.0000		5.35	5.34	1.18	0.999	99.9
18	21 PFDS	598.8 > 80	3.62e2	1.45e4	1.0000		5.50	5.39	0.312	0.984	98.4
19	22 PFDoA	612.9 > 569.0	1.68e3	7.27e3	1.0000		5.70	5.63	2.89	1.254	125.4
20	23 N-MeFOSA	512.1 > 168.9	8.44e2	2.56e4	1.0000		5.77	5.75	4.95	4.502	90.0
21	24 PFTTrDA	662.9 > 618.9	1.43e3	3.29e3	1.0000		5.95	5.87	5.44	1.043	104.3
22	25 PFTeDA	712.9 > 668.8	6.03e2	3.29e3	1.0000		6.16	6.09	2.29	0.738	73.8
23	26 N-EtFOSA	526.1 > 168.9	1.07e3	3.53e4	1.0000		6.15	6.15	4.55	4.501	90.0
24	27 PFHxDA	813.1 > 768.6	6.93e2	3.14e3	1.0000		6.48	6.43	1.10	1.023	102.3
25	28 PFODA	913.1 > 868.8	7.65e2	3.14e3	1.0000		6.70	6.66	1.22	1.093	109.3
26	29 N-MeFOSE	616.1 > 58.9	1.38e3	4.05e4	1.0000		6.30	6.31	5.11	4.568	91.4
27	30 N-EtFOSE	630.1 > 58.9	1.34e3	3.10e4	1.0000		6.42	6.45	6.45	4.897	97.9
28	31 13C3-PFBA	216.1 > 171.8	1.33e4	1.73e4	1.0000	0.775	1.47	1.34	9.62	12.414	99.3
29	32 13C3-PFPeA	266. > 221.8	1.58e4	2.10e4	1.0000	0.805	2.44	2.31	9.44	11.727	93.8
30	33 13C3-PFBS	302. > 98.8	2.24e3	2.10e4	1.0000	0.106	2.70	2.59	1.34	12.589	100.7
31	Work Order 27-011802	315 > 269.8	4.85e3	2.10e4	1.0000	0.633	3.20	3.08	2.89	4.564	91.3

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50-150

Dataset: U:\Q4.PRO\results\180104M1\180104M1-58.qld

Last Altered: Friday, January 05, 2018 12:59:49 Pacific Standard Time

Printed: Friday, January 05, 2018 13:01:20 Pacific Standard Time

Name: 180104M1_58, Date: 05-Jan-2018, Time: 11:35:31, ID: ST180104M1-4 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	wt/vol	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec
32	35 13C4-PFHpA	367.2 > 321.8	1.20e4	2.10e4	1.0000	0.641	3.80	3.69	7.15	11.167	89.3
33	36 18O2-PFHxS	403.0 > 102.6	1.50e3	5.42e3	1.0000	0.334	3.95	3.84	3.45	10.320	82.6
34	37 13C2-6:2 FTS	429.1 > 408.9	4.23e3	1.83e4	1.0000	0.228	4.26	4.15	2.89	12.673	101.4
35	38 13C2-PFOA	414.9 > 369.7	1.61e4	1.83e4	1.0000	0.959	4.32	4.21	11.0	11.451	91.6
36	39 13C5-PFNA	468.2 > 422.9	1.60e4	2.05e4	1.0000	0.830	4.75	4.64	9.74	11.734	93.9
37	40 13C8-PFOSA	506.1 > 77.7	4.59e3	1.62e4	1.0000	0.262	4.81	4.71	3.54	13.510	108.1
38	41 13C8-PFOS	507.0 > 79.9	4.86e3	5.33e3	1.0000	0.880	4.83	4.73	11.4	12.945	103.6
39	42 13C2-PFDA	515.1 > 469.9	1.34e4	9.73e3	1.0000	0.995	5.11	5.02	17.2	17.312	138.5
40	43 13C2-8:2 FTS	529.1 > 508.7	2.22e3	2.10e4	1.0000	0.142	5.09	4.99	1.32	9.283	74.3
41	44 d3-N-MeFOSAA	573.3 > 419	7.41e3	1.62e4	1.0000	0.376	5.26	5.17	5.72	15.229	121.8
42	45 d5-N-EtFOSAA	589.3 > 419	8.45e3	1.62e4	1.0000	0.444	5.42	5.32	6.52	14.703	117.6
43	46 13C2-PFUdA	565 > 519.8	1.45e4	1.62e4	1.0000	0.889	5.43	5.34	11.2	12.615	100.9
44	47 13C2-PFDoA	615.0 > 569.7	7.27e3	1.62e4	1.0000	0.542	5.70	5.63	5.61	10.350	82.8
45	48 d3-N-MeFOSA	515.2 > 168.9	2.56e4	1.62e4	1.0000	0.117	5.80	5.78	19.7	169.299	112.9
46	49 13C2-PFTeDA	714.8 > 669.6	3.29e3	1.62e4	1.0000	0.230	6.16	6.09	2.54	11.028	88.2
47	50 d5-N-ETFOSA	531.1 > 168.9	3.53e4	1.62e4	1.0000	0.170	6.16	6.17	27.3	160.467	107.0
48	51 13C2-PFHxDA	815 > 769.7	3.14e3	1.62e4	1.0000	0.432	6.48	6.42	2.43	5.615	112.3
49	52 d7-N-MeFOSE	623.1 > 58.9	4.05e4	1.62e4	1.0000	0.161	6.30	6.29	31.2	193.552	129.0
50	53 d9-N-EtFOSE	639.2 > 58.8	3.10e4	1.62e4	1.0000	0.158	6.42	6.45	24.0	152.040	101.4
51	54 13C4-PFBA	217. > 171.8	1.73e4	1.73e4	1.0000	1.000	1.47	1.34	12.5	12.500	100.0
52	55 13C5-PFHxA	318 > 272.9	2.10e4	2.10e4	1.0000	1.000	3.20	3.08	12.5	12.500	100.0
53	56 13C3-PFHxS	401.9 > 79.9	5.42e3	5.42e3	1.0000	1.000	3.95	3.84	12.5	12.500	100.0
54	57 13C8-PFOA	421.3 > 376	1.83e4	1.83e4	1.0000	1.000	4.32	4.21	12.5	12.500	100.0
55	58 13C9-PFNA	472.2 > 426.9	2.05e4	2.05e4	1.0000	1.000	4.75	4.64	12.5	12.500	100.0
56	59 13C4-PFOS	503 > 79.9	5.33e3	5.33e3	1.0000	1.000	4.83	4.73	12.5	12.500	100.0
57	60 13C6-PFDA	519.1 > 473.7	9.73e3	9.73e3	1.0000	1.000	5.11	5.01	12.5	12.500	100.0
58	61 13C7-PFUdA	570.1 > 524.8	1.62e4	1.62e4	1.0000	1.000	5.43	5.34	12.5	12.500	100.0

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Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, January 05, 2018 14:45:39 Pacific Standard Time

Printed: Friday, January 05, 2018 14:49:49 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_122917-PFOA-QUAD.mdb 05 Jan 2018 10:33:24
Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-02-18_FULL.cdb 03 Jan 2018 11:12:59

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180104M1_01	ST180104M1-1 PFC CS0 17L2608	05-Jan-18	00:52:35
2	180104M1_02	IPA	05-Jan-18	01:04:00
3	180104M1_03	B7L0185-BS1 OPR 0.125	05-Jan-18	01:15:17
4	180104M1_04	B7L0185-BSD1 LCSD 0.125	05-Jan-18	01:26:28
5	180104M1_05	IPA	05-Jan-18	01:37:38
6	180104M1_06	B7L0185-BLK1 Method Blank 0.125	05-Jan-18	01:48:48
7	180104M1_07	1701949-01 REEPDW043 0.11929	05-Jan-18	01:59:59
8	180104M1_08	1701949-02 REEPDW044 0.10936	05-Jan-18	02:11:10
9	180104M1_09	1701949-03 REEPDW046 0.12057	05-Jan-18	02:22:21
10	180104M1_10	1701949-04 REEPDW047 0.1216	05-Jan-18	02:33:32
11	180104M1_11	1701949-05 REEPDW048 0.1211	05-Jan-18	02:44:42
12	180104M1_12	1701950-01 REEPDW043FRB 0.11883	05-Jan-18	02:55:53
13	180104M1_13	1701950-02 REEPDW044FRB 0.12043	05-Jan-18	03:07:04
14	180104M1_14	1701950-03 REEPDW046FRB 0.12167	05-Jan-18	03:18:14
15	180104M1_15	1701950-04 REEPDW047FRB 0.11765	05-Jan-18	03:29:25
16	180104M1_16	1701950-05 REEPDW048FRB 0.11608	05-Jan-18	03:40:36
17	180104M1_17	1701957-01 REEPDW049 0.11865	05-Jan-18	03:51:46
18	180104M1_18	1701957-02 REEPDW050 0.12041	05-Jan-18	04:02:57
19	180104M1_19	1701957-03 REEPDW0504 0.12011	05-Jan-18	04:14:08
20	180104M1_20	1701957-04 REEPDW051 0.11849	05-Jan-18	04:25:18
21	180104M1_21	1701957-05 REEPDW052 0.11161	05-Jan-18	04:36:30
22	180104M1_22	IPA	05-Jan-18	04:47:40
23	180104M1_23	ST180104M1-2 PFC CS3 17L2611	05-Jan-18	04:58:51
24	180104M1_24	IPA	05-Jan-18	05:10:02
25	180104M1_25	1701957-06 REEPDW053 0.11648	05-Jan-18	05:21:13
26	180104M1_26	1701957-07 REEPDW054 0.1179	05-Jan-18	05:32:24
27	180104M1_27	1701957-08 REEPDW045 0.12116	05-Jan-18	05:43:34
28	180104M1_28	1701862-10 WT1712041545MK 0.25348	05-Jan-18	05:54:45
29	180104M1_29	1701862-14 WR1712051625JNR 0.26032	05-Jan-18	06:05:56
30	180104M1_30	1701862-16 WR1712051610JNR 0.2624	05-Jan-18	06:17:06
31	180104M1_31	1701902-08RE1 WT1712071425JM 0.2598	05-Jan-18	06:28:17

Work Order 1701802

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Dataset: Untitled

Last Altered: Friday, January 05, 2018 14:45:39 Pacific Standard Time

Printed: Friday, January 05, 2018 14:49:49 Pacific Standard Time

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
32	180104M1_32	1701902-10RE1 WT1712071500JM 0.26089	05-Jan-18	06:39:27
33	180104M1_33	1701932-01RE1 GW1721171207RAP 0.26011	05-Jan-18	06:50:38
34	180104M1_34	1701932-02RE1 GW2731171208RAP 0.25947	05-Jan-18	07:01:49
35	180104M1_35	IPA	05-Jan-18	07:13:00
36	180104M1_36	ST180104M1-3 PFC CS3 17L2611	05-Jan-18	07:24:10
37	180104M1_37	IPA	05-Jan-18	07:35:21
38	180104M1_38	1701900-09 WT1712061120JM 0.26297	05-Jan-18	07:46:32
39	180104M1_39	IPA	05-Jan-18	07:57:42
40	180104M1_40	B8A0004-BLK1 Method Blank 5	05-Jan-18	08:08:53
41	180104M1_41	B8A0004-BS1 OPR 5	05-Jan-18	08:20:11
42	180104M1_42	B8A0004-BS2 OPR 5	05-Jan-18	08:31:24
43	180104M1_43	B8A0004-BS3 OPR 5	05-Jan-18	08:42:34
44	180104M1_44	B8A0004-BS4 OPR 5	05-Jan-18	08:53:45
45	180104M1_45	B7L0125-BS1 OPR 0.25	05-Jan-18	09:04:59
46	180104M1_46	B7L0125-BSD1 LCSD 0.25	05-Jan-18	09:16:14
47	180104M1_47	B7L0125-BLK1 Method Blank 0.25	05-Jan-18	09:27:26
48	180104M1_48	1701802-01RE1 FC-MW02SR1-NP-20171128...	05-Jan-18	09:42:44
49	180104M1_49	1701802-02RE1 FC-MW02SR1-P1-20171128 ...	05-Jan-18	09:54:44
50	180104M1_50	1701802-03RE1 FC-MW02SR1-P2-20171128 ...	05-Jan-18	10:05:56
51	180104M1_51	1701802-04RE1 FC-MW02SR1-P3-20171128 ...	05-Jan-18	10:17:07
52	180104M1_52	1701802-05RE1 FC-MW02SR1-FRB-2017112...	05-Jan-18	10:28:25
53	180104M1_53	1701802-06RE1 FC-MW02IR1-NP-20171128 ...	05-Jan-18	10:39:36
54	180104M1_54	1701802-07RE1 FC-MW02IR1-P1-20171128 ...	05-Jan-18	10:50:47
55	180104M1_55	1701802-08RE1 FC-MW02IR1-P2-20171128 ...	05-Jan-18	11:02:01
56	180104M1_56	1701802-09RE1 FC-MW02IR1-P3-20171128 ...	05-Jan-18	11:13:10
57	180104M1_57	IPA	05-Jan-18	11:24:21
58	180104M1_58	ST180104M1-4 PFC CS0 17L2608	05-Jan-18	11:35:31

Dataset: U:\Q4.PRO\results\180111M2\180111M2-1.qld

Last Altered: Saturday, January 13, 2018 11:12:24 Pacific Standard Time
Printed: Saturday, January 13, 2018 11:12:37 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Name: 180111M2_1, Date: 12-Jan-2018, Time: 03:38:50, ID: ST180111M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

P/13/18
VJA-01/15/2018

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
1	1 PFBA	213.0 > 168.8	8.03e2	7.85e3		1.38	1.32	1.28	0.901	90.1	NO
2	2 PFPeA	263.1 > 218.9	8.52e2	9.81e3		2.37	2.30	1.09	0.908	90.8	NO
3	3 PFBS	299.0 > 79.7	1.83e2	1.20e3		2.66	2.59	1.90	0.892	89.2	NO
4	4 PFHxA	313.2 > 268.9	1.11e3	3.02e3		3.15	3.08	1.84	0.960	96.0	NO
5	5 PFHpA	363.0 > 318.9	8.83e2	8.02e3		3.78	3.70	1.38	0.904	90.4	NO
6	6 L-PFHxS	398.9 > 79.6	1.13e2	9.65e2		3.94	3.85	1.46	0.789	78.9	NO
7	8 6:2 FTS	427.1 > 407	2.34e2	9.65e2		4.25	4.17	3.03	1.06	106.2	NO
8	9 L-PFOA	413 > 368.7	1.28e3	9.97e3		4.31	4.23	1.60	1.12	112.4	NO
9	11 PFHpS	449 > 80.0	1.24e2	9.97e3		4.42	4.34	0.155	0.611	61.1	YES
10	12 PFNA	463.0 > 418.8	9.29e2	9.51e3		4.81	4.66	1.22	0.861	86.1	NO
11	13 PFOSA	498.1 > 77.8	2.44e2	2.47e3		4.87	4.72	1.24	0.919	91.9	NO
12	14 L-PFOS	499 > 79.9	2.36e2	2.51e3		4.75	4.74	1.18	0.974	97.4	NO
13	16 PFDA	513 > 468.8	1.06e3	8.44e3		5.18	5.03	1.57	1.13	112.6	NO
14	17 8:2 FTS	527 > 506.9	1.29e2	8.44e3		5.15	5.01	0.191	0.720	72.0	NO
15	18 N-MeFOSAA	570.1 > 419	4.48e2	3.69e3		5.32	5.19	1.52	0.895	89.5	NO
16	19 N-EtFOSAA	584.2 > 419	4.04e2	3.94e3		5.48	5.34	1.28	1.06	106.4	NO
17	20 PFUdA	563.0 > 518.9	9.73e2	9.41e3		5.50	5.36	1.29	1.04	104.2	NO
18	21 PFDS	598.8 > 80	2.53e2	9.41e3		5.54	5.40	0.337	0.929	92.9	NO
19	22 PFDoA	612.9 > 569.0	1.16e3	6.69e3		5.77	5.64	2.16	0.957	95.7	NO
20	23 N-MeFOSA	512.1 > 168.9	4.85e2	1.55e4		5.80	5.72	4.70	4.40	88.0	NO
21	24 PFTrDA	662.9 > 618.9	9.91e2	6.69e3		6.00	5.89	1.85	0.773	77.3	NO
22	25 PFTeDA	712.9 > 668.8	5.68e2	2.44e3		6.22	6.11	2.91	1.05	104.5	NO
23	26 N-EtFOSA	526.1 > 168.9	7.41e2	2.30e4		6.17	6.12	4.84	4.92	98.5	NO
24	27 PFHxDA	813.1 > 768.6	4.24e2	1.93e3		6.53	6.44	1.10	1.05	104.7	NO
25	28 PFODA	913.1 > 868.8	4.81e2	1.93e3		6.74	6.67	1.25	1.10	109.9	NO
26	29 N-MeFOSE	616.1 > 58.9	7.84e2	2.31e4		6.27	6.27	5.09	4.97	99.5	NO
27	30 N-EtFOSE	630.1 > 58.9	8.25e2	2.17e4		6.43	6.42	5.71	4.22	84.4	NO
28	31 13C3-PFBA	216.1 > 171.8	7.85e3	1.04e4	0.764	1.38	1.32	9.45	12.4	99.1	NO
29	32 13C3-PFPeA	266. > 221.8	9.81e3	1.27e4	0.730	2.37	2.30	9.64	13.2	105.7	NO
30	33 13C3-PFBS	302. > 98.8	1.20e3	1.27e4	0.095	2.77	2.58	1.18	12.4	99.1	NO
31	Work Order 2701802	315 > 269.8	3.02e3	1.27e4	0.597	3.15	3.08	2.97	4.98	99.5	NO

No samples affected

Dataset: U:\Q4.PRO\results\180111M2\180111M2-1.qld

Last Altered: Saturday, January 13, 2018 11:12:24 Pacific Standard Time
Printed: Saturday, January 13, 2018 11:12:37 Pacific Standard Time

Name: 180111M2_1, Date: 12-Jan-2018, Time: 03:38:50, ID: ST180111M2-1 PFC CS0 17L2608, Description: PFC CS0 17L2608

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
32	35 13C4-PFHpA	367.2 > 321.8	8.02e3	1.27e4	0.604	3.78	3.70	7.89	13.1	104.4	NO
33	36 18O2-PFHxS	403.0 > 102.6	9.65e2	2.97e3	0.293	3.94	3.85	4.06	13.8	110.7	NO
34	37 13C2-6:2 FTS	429.1 > 408.9	2.04e3	1.13e4	0.215	4.25	4.17	2.26	10.5	83.8	NO
35	38 13C2-PFOA	414.9 > 369.7	9.97e3	1.13e4	0.916	4.31	4.22	11.0	12.0	96.2	NO
36	39 13C5-PFNA	468.2 > 422.9	9.51e3	1.27e4	0.817	4.81	4.66	9.39	11.5	91.9	NO
37	40 13C8-PFOSA	506.1 > 77.7	2.47e3	9.56e3	0.223	4.87	4.72	3.22	14.5	115.7	NO
38	41 13C8-PFOS	507.0 > 79.9	2.51e3	2.84e3	0.875	4.89	4.74	11.1	12.6	101.1	NO
39	42 13C2-PFDA	515.1 > 469.9	8.44e3	8.17e3	1.105	5.18	5.03	12.9	11.7	93.5	NO
40	43 13C2-8:2 FTS	529.1 > 508.7	8.64e2	1.27e4	0.101	5.15	5.01	0.850	8.42	67.4	NO
41	44 d3-N-MeFOSAA	573.3 > 419	3.69e3	9.56e3	0.345	5.32	5.18	4.83	14.0	111.5	NO
42	45 d5-N-EiFOSAA	589.3 > 419	3.94e3	9.56e3	0.390	5.47	5.34	5.15	13.2	105.5	NO
43	46 13C2-PFUDa	565 > 519.8	9.41e3	9.56e3	0.958	5.49	5.36	12.3	12.8	102.7	NO
44	47 13C2-PFDoA	615.0 > 569.7	6.69e3	9.56e3	0.599	5.77	5.64	8.75	14.6	116.9	NO
45	48 d3-N-MeFOSA	515.2 > 168.9	1.55e4	9.56e3	0.124	5.83	5.75	20.2	163	108.7	NO
46	49 13C2-PFTeDA	714.8 > 669.6	2.44e3	9.56e3	0.282	6.22	6.11	3.18	11.3	90.4	NO
47	50 d5-N-ETFOSA	531.1 > 168.9	2.30e4	9.56e3	0.184	6.18	6.13	30.0	163	108.6	NO
48	51 13C2-PFHxDA	815 > 769.7	1.93e3	9.56e3	0.540	6.53	6.44	2.52	4.67	93.5	NO
49	52 d7-N-MeFOSE	623.1 > 58.9	2.31e4	9.56e3	0.182	6.27	6.26	30.2	166	110.4	NO
50	53 d9-N-EiFOSE	639.2 > 58.8	2.17e4	9.56e3	0.173	6.42	6.42	28.4	164	109.6	NO
51	54 13C4-PFBA	217. > 171.8	1.04e4	1.04e4	1.000	1.38	1.32	12.5	12.5	100.0	NO
52	55 13C5-PFHxA	318 > 272.9	1.27e4	1.27e4	1.000	3.15	3.08	12.5	12.5	100.0	NO
53	56 13C3-PFHxS	401.9 > 79.9	2.97e3	2.97e3	1.000	4.02	3.85	12.5	12.5	100.0	NO
54	57 13C8-PFOA	421.3 > 376	1.13e4	1.13e4	1.000	4.38	4.23	12.5	12.5	100.0	NO
55	58 13C9-PFNA	472.2 > 426.9	1.27e4	1.27e4	1.000	4.81	4.66	12.5	12.5	100.0	NO
56	59 13C4-PFOS	503 > 79.9	2.84e3	2.84e3	1.000	4.89	4.74	12.5	12.5	100.0	NO
57	60 13C6-PFDA	519.1 > 473.7	8.17e3	8.17e3	1.000	5.18	5.03	12.5	12.5	100.0	NO
58	61 13C7-PFUDa	570.1 > 524.8	9.56e3	9.56e3	1.000	5.49	5.36	12.5	12.5	100.0	NO

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Dataset: U:\Q4.PRO\results\180111M2\180111M2-19.qld

Last Altered: Saturday, January 13, 2018 11:14:12 Pacific Standard Time

Printed: Saturday, January 13, 2018 11:14:27 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Name: 180111M2_19, Date: 12-Jan-2018, Time: 07:00:09, ID: ST180111M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

CP 1/13/18
1/15/2018

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc	%Rec	Recovery Out
1	1 PFBA	213.0 > 168.8	1.24e4	1.08e4		1.38	1.32	14.4	9.80	98.0	NO
2	2 PFPeA	263.1 > 218.9	1.25e4	1.21e4		2.37	2.30	12.9	10.3	102.6	NO
3	3 PFBS	299.0 > 79.7	2.85e3	1.65e3		2.66	2.59	21.6	10.2	101.5	NO
4	4 PFHxA	313.2 > 258.9	1.69e4	4.30e3		3.15	3.08	19.6	10.1	101.3	NO
5	5 PFHpA	363.0 > 318.9	1.29e4	9.83e3		3.78	3.70	16.5	10.0	100.2	NO
6	6 L-PFHxS	398.9 > 79.6	2.06e3	1.24e3		3.94	3.85	20.8	9.92	99.2	NO
7	8 6:2 FTS	427.1 > 407	2.92e3	1.24e3		4.25	4.17	29.5	9.67	96.7	NO
8	9 L-PFOA	413 > 368.7	1.42e4	1.50e4		4.31	4.22	11.8	9.20	92.0	NO
9	11 PFHpS	449 > 80.0	3.15e3	1.50e4		4.42	4.33	2.62	8.96	89.6	NO
10	12 PFNA	463.0 > 418.8	1.42e4	1.25e4		4.81	4.66	14.3	10.1	100.8	NO
11	13 PFOSA	498.1 > 77.8	3.51e3	2.75e3		4.87	4.72	15.9	12.2	121.5	NO
12	14 L-PFOS	499 > 79.9	3.38e3	3.64e3		4.75	4.75	11.6	9.86	98.6	NO
13	16 PFDA	513 > 468.8	1.32e4	9.53e3		5.18	5.04	17.4	10.6	106.0	NO
14	17 8:2 FTS	527 > 506.9	2.15e3	9.53e3		5.15	5.01	2.82	8.94	89.4	NO
15	18 N-MeFOSAA	570.1 > 419	6.69e3	4.90e3		5.32	5.19	17.1	8.58	85.8	NO
16	19 N-EtFOSAA	584.2 > 419	5.92e3	5.26e3		5.48	5.34	14.1	9.18	91.8	NO
17	20 PFUdA	563.0 > 518.9	1.32e4	1.18e4		5.50	5.36	13.9	10.5	105.3	NO
18	21 PFDS	598.8 > 80	3.50e3	1.18e4		5.54	5.41	3.69	9.90	99.0	NO
19	22 PFDoA	612.9 > 569.0	1.49e4	8.70e3		5.77	5.64	21.4	10.0	100.4	NO
20	23 N-MeFOSA	512.1 > 168.9	7.56e3	1.94e4		5.80	5.72	58.3	52.9	105.8	NO
21	24 PFTTrDA	662.9 > 618.9	1.70e4	8.70e3		6.00	5.89	24.3	10.2	101.8	NO
22	25 PFTeDA	712.9 > 668.8	8.87e3	3.38e3		6.22	6.10	32.8	11.1	110.9	NO
23	26 N-EtFOSA	526.1 > 168.9	1.04e4	2.99e4		6.17	6.12	52.3	51.4	102.7	NO
24	27 PFHxDA	813.1 > 768.6	5.03e3	2.44e3		6.53	6.44	10.3	10.5	105.2	NO
25	28 PFODA	913.1 > 868.8	6.54e3	2.44e3		6.74	6.67	13.4	10.5	104.5	NO
26	29 N-MeFOSE	616.1 > 58.9	1.11e4	3.07e4		6.27	6.27	54.2	46.8	93.6	NO
27	30 N-EtFOSE	630.1 > 58.9	1.33e4	2.89e4		6.43	6.42	68.9	49.3	98.6	NO
28	31 13C3-PFBA	216.1 > 171.8	1.08e4	1.40e4	0.764	1.38	1.33	9.63	12.6	100.9	NO
29	32 13C3-PFPeA	266. > 221.8	1.21e4	1.63e4	0.730	2.37	2.31	9.25	12.7	101.3	NO
30	33 13C3-PFBS	302. > 98.8	1.65e3	1.63e4	0.095	2.77	2.59	1.26	13.2	105.6	NO
31	Work Order 20180102	315 > 269.8	4.30e3	1.63e4	0.597	3.15	3.08	3.29	5.51	110.2	NO

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Dataset: U:\Q4.PRO\results\180111M2\180111M2-19.qld

Last Altered: Saturday, January 13, 2018 11:14:12 Pacific Standard Time

Printed: Saturday, January 13, 2018 11:14:27 Pacific Standard Time

Name: 180111M2_19, Date: 12-Jan-2018, Time: 07:00:09, ID: ST180111M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
32	35 13C4-PFHpA	367.2 > 321.8	9.83e3	1.63e4	0.604	3.78	3.71	7.52	12.4	99.5	NO
33	36 18O2-PFHxS	403.0 > 102.6	1.24e3	4.06e3	0.293	3.94	3.85	3.81	13.0	103.9	NO
34	37 13C2-6:2 FTS	429.1 > 408.9	3.01e3	1.47e4	0.215	4.25	4.17	2.56	11.9	95.1	NO
35	38 13C2-PFOA	414.9 > 369.7	1.50e4	1.47e4	0.916	4.31	4.22	12.8	14.0	111.6	NO
36	39 13C5-PFNA	468.2 > 422.9	1.25e4	1.39e4	0.817	4.81	4.66	11.2	13.8	110.0	NO
37	40 13C8-PFOSA	506.1 > 77.7	2.75e3	1.34e4	0.223	4.87	4.72	2.56	11.5	92.0	NO
38	41 13C8-PFOS	507.0 > 79.9	3.64e3	3.47e3	0.875	4.89	4.74	13.1	15.0	120.0	NO
39	42 13C2-PFDA	515.1 > 469.9	9.53e3	1.14e4	1.105	5.18	5.03	10.5	9.48	75.8	NO
40	43 13C2-8:2 FTS	529.1 > 508.7	1.26e3	1.63e4	0.101	5.15	5.00	0.964	9.56	76.4	NO
41	44 d3-N-MeFOSAA	573.3 > 419	4.90e3	1.34e4	0.345	5.32	5.18	4.56	13.2	105.7	NO
42	45 d5-N-EtFOSAA	589.3 > 419	5.26e3	1.34e4	0.390	5.47	5.34	4.90	12.5	100.4	NO
43	46 13C2-PFUDa	565 > 519.8	1.18e4	1.34e4	0.958	5.49	5.36	11.0	11.5	92.0	NO
44	47 13C2-PFDoA	615.0 > 569.7	8.70e3	1.34e4	0.599	5.77	5.64	8.10	13.5	108.2	NO
45	48 d3-N-MeFOSA	515.2 > 168.9	1.94e4	1.34e4	0.124	5.83	5.75	18.1	146	97.2	NO
46	49 13C2-PFTeDA	714.8 > 669.6	3.38e3	1.34e4	0.282	6.22	6.10	3.15	11.2	89.3	NO
47	50 d5-N-ETFOSA	531.1 > 168.9	2.99e4	1.34e4	0.184	6.18	6.14	27.8	151	100.7	NO
48	51 13C2-PFHxDA	815 > 769.7	2.44e3	1.34e4	0.540	6.53	6.44	2.27	4.21	84.2	NO
49	52 d7-N-MeFOSE	623.1 > 58.9	3.07e4	1.34e4	0.182	6.27	6.26	28.6	157	104.6	NO
50	53 d9-N-EtFOSE	639.2 > 58.8	2.89e4	1.34e4	0.173	6.42	6.41	26.9	156	103.8	NO
51	54 13C4-PFBA	217. > 171.8	1.40e4	1.40e4	1.000	1.38	1.33	12.5	12.5	100.0	NO
52	55 13C5-PFHxA	318 > 272.9	1.63e4	1.63e4	1.000	3.15	3.08	12.5	12.5	100.0	NO
53	56 13C3-PFHxS	401.9 > 79.9	4.06e3	4.06e3	1.000	4.02	3.85	12.5	12.5	100.0	NO
54	57 13C8-PFOA	421.3 > 376	1.47e4	1.47e4	1.000	4.38	4.22	12.5	12.5	100.0	NO
55	58 13C9-PFNA	472.2 > 426.9	1.39e4	1.39e4	1.000	4.81	4.66	12.5	12.5	100.0	NO
56	59 13C4-PFOS	503 > 79.9	3.47e3	3.47e3	1.000	4.89	4.74	12.5	12.5	100.0	NO
57	60 13C6-PFDA	519.1 > 473.7	1.14e4	1.14e4	1.000	5.18	5.03	12.5	12.5	100.0	NO
58	61 13C7-PFUDa	570.1 > 524.8	1.34e4	1.34e4	1.000	5.49	5.36	12.5	12.5	100.0	NO

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Dataset: U:\Q4.PRO\results\180111M2\180111M2-26.qld

Last Altered: Saturday, January 13, 2018 11:14:57 Pacific Standard Time

Printed: Saturday, January 13, 2018 11:15:05 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36

Calibration: U:\Q4.PRO\CurveDB\C18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30

Name: 180111M2_26, Date: 12-Jan-2018, Time: 08:18:25, ID: ST180111M2-26 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
1	1 PFBA	213.0 > 168.8	1.20e4	1.06e4		1.38	1.32	14.1	9.64	96.4	NO
2	2 PFPeA	263.1 > 218.9	1.25e4	1.26e4		2.37	2.31	12.4	9.87	98.7	NO
3	3 PFBS	299.0 > 79.7	2.97e3	1.72e3		2.66	2.59	21.6	10.1	101.2	NO
4	4 PFHxA	313.2 > 268.9	1.53e4	4.11e3		3.15	3.08	18.6	9.60	96.0	NO
5	5 PFHpA	363.0 > 318.9	1.26e4	9.05e3		3.78	3.70	17.4	10.6	105.8	NO
6	6 L-PFHxS	398.9 > 79.6	2.07e3	1.37e3		3.94	3.85	18.9	9.00	90.0	NO
7	8 6:2 FTS	427.1 > 407	3.45e3	1.37e3		4.25	4.17	31.4	10.3	102.6	NO
8	9 L-PFOA	413 > 368.7	1.40e4	1.44e4		4.31	4.22	12.2	9.51	95.1	NO
9	11 PFHpS	449 > 80.0	3.32e3	1.44e4		4.42	4.34	2.88	9.81	98.1	NO
10	12 PFNA	463.0 > 418.8	1.44e4	1.14e4		4.81	4.66	15.7	11.1	111.0	NO
11	13 PFOSA	498.1 > 77.8	3.13e3	3.20e3		4.87	4.72	12.2	9.33	93.3	NO
12	14 L-PFOS	499 > 79.9	3.02e3	2.98e3		4.75	4.75	12.7	10.8	107.7	NO
13	16 PFDA	513 > 468.8	1.37e4	8.83e3		5.18	5.04	19.3	11.7	117.5	NO
14	17 8:2 FTS	527 > 506.9	2.63e3	8.83e3		5.15	5.01	3.73	11.7	116.8	NO
15	18 N-MeFOSAA	570.1 > 419	6.84e3	4.80e3		5.32	5.18	17.8	8.94	89.4	NO
16	19 N-EtFOSAA	584.2 > 419	5.45e3	4.51e3		5.48	5.34	15.1	9.85	98.5	NO
17	20 PFUDa	563.0 > 518.9	1.48e4	1.37e4		5.50	5.36	13.5	10.2	102.3	NO
18	21 PFDS	598.8 > 80	4.04e3	1.37e4		5.54	5.40	3.69	9.88	98.8	NO
19	22 PFDa	612.9 > 569.0	1.33e4	7.41e3		5.77	5.64	22.5	10.6	105.8	NO
20	23 N-MeFOSA	512.1 > 168.9	7.46e3	1.98e4		5.80	5.72	56.5	51.2	102.5	NO
21	24 PFTrDA	662.9 > 618.9	1.62e4	7.41e3		6.00	5.89	27.3	11.4	114.0	NO
22	25 PFTeDA	712.9 > 668.8	8.56e3	3.06e3		6.22	6.11	35.0	11.8	118.1	NO
23	26 N-EtFOSA	526.1 > 168.9	1.03e4	2.94e4		6.17	6.12	52.7	51.7	103.4	NO
24	27 PFHxDA	813.1 > 768.6	5.02e3	2.48e3		6.53	6.44	10.1	10.4	103.6	NO
25	28 PFODA	913.1 > 868.8	6.41e3	2.48e3		6.74	6.67	12.9	10.1	100.9	NO
26	29 N-MeFOSE	616.1 > 58.9	1.06e4	3.08e4		6.27	6.27	51.4	44.5	89.0	NO
27	30 N-EtFOSE	630.1 > 58.9	1.41e4	2.91e4		6.43	6.43	72.5	51.9	103.8	NO
28	31 13C3-PFBA	216.1 > 171.8	1.06e4	1.39e4	0.764	1.38	1.33	9.58	12.5	100.3	NO
29	32 13C3-PFPeA	266. > 221.8	1.26e4	1.53e4	0.730	2.37	2.30	10.3	14.2	113.3	NO
30	33 13C3-PFBS	302. > 98.8	1.72e3	1.53e4	0.095	2.77	2.59	1.41	14.8	118.4	NO
31	Work Order 701802 34 13C3-PFHxA	315 > 269.8	4.11e3	1.53e4	0.597	3.15	3.08	3.36	5.64	112.7	NO

Dataset: U:\Q4.PRO\results\180111M2\180111M2-26.qld

Last Altered: Saturday, January 13, 2018 11:14:57 Pacific Standard Time

Printed: Saturday, January 13, 2018 11:15:05 Pacific Standard Time

Name: 180111M2_26, Date: 12-Jan-2018, Time: 08:18:25, ID: ST180111M2-2 PFC CS3 17L2611, Description: PFC CS3 17L2611

	# Name	Trace	Area	IS Area	RRF	Pred.RT	RT	y Axis Resp.	Conc.	%Rec	Recovery Out
32	35 13C4-PFHpA	367.2 > 321.8	9.05e3	1.53e4	0.604	3.78	3.71	7.41	12.3	98.2	NO
33	36 18O2-PFHxS	403.0 > 102.6	1.37e3	3.90e3	0.293	3.94	3.85	4.39	15.0	119.8	NO
34	37 13C2-6:2 FTS	429.1 > 408.9	2.62e3	1.50e4	0.215	4.25	4.17	2.18	10.1	81.1	NO
35	38 13C2-PFOA	414.9 > 369.7	1.44e4	1.50e4	0.916	4.31	4.22	12.0	13.1	104.5	NO
36	39 13C5-PFNA	468.2 > 422.9	1.14e4	1.43e4	0.817	4.81	4.66	9.97	12.2	97.6	NO
37	40 13C8-PFOSA	506.1 > 77.7	3.20e3	1.40e4	0.223	4.87	4.72	2.85	12.8	102.1	NO
38	41 13C8-PFOS	507.0 > 79.9	2.98e3	3.96e3	0.875	4.89	4.74	9.40	10.8	86.0	NO
39	42 13C2-PFDA	515.1 > 469.9	8.83e3	8.30e3	1.105	5.18	5.04	13.3	12.0	96.2	NO
40	43 13C2-8:2 FTS	529.1 > 508.7	1.35e3	1.53e4	0.101	5.15	5.01	1.11	11.0	87.7	NO
41	44 d3-N-MeFOSAA	573.3 > 419	4.80e3	1.40e4	0.345	5.32	5.18	4.27	12.4	99.1	NO
42	45 d5-N-EtFOSAA	589.3 > 419	4.51e3	1.40e4	0.390	5.47	5.34	4.01	10.3	82.2	NO
43	46 13C2-PFUDa	565 > 519.8	1.37e4	1.40e4	0.958	5.49	5.36	12.2	12.7	101.8	NO
44	47 13C2-PFDaA	615.0 > 569.7	7.41e3	1.40e4	0.599	5.77	5.64	6.59	11.0	88.0	NO
45	48 d3-N-MeFOSA	515.2 > 168.9	1.98e4	1.40e4	0.124	5.83	5.75	17.6	142	94.6	NO
46	49 13C2-PFTeDA	714.8 > 669.6	3.06e3	1.40e4	0.282	6.22	6.10	2.72	9.66	77.3	NO
47	50 d5-N-ETFOSA	531.1 > 168.9	2.94e4	1.40e4	0.184	6.18	6.14	26.1	142	94.6	NO
48	51 13C2-PFHxDA	815 > 769.7	2.48e3	1.40e4	0.540	6.53	6.44	2.20	4.08	81.7	NO
49	52 d7-N-MeFOSE	623.1 > 58.9	3.08e4	1.40e4	0.182	6.27	6.26	27.4	150	100.2	NO
50	53 d9-N-EtFOSE	639.2 > 58.8	2.91e4	1.40e4	0.173	6.42	6.41	25.9	150	99.9	NO
51	54 13C4-PFBA	217. > 171.8	1.39e4	1.39e4	1.000	1.38	1.32	12.5	12.5	100.0	NO
52	55 13C5-PFHxA	318 > 272.9	1.53e4	1.53e4	1.000	3.15	3.08	12.5	12.5	100.0	NO
53	56 13C3-PFHxS	401.9 > 79.9	3.90e3	3.90e3	1.000	4.02	3.85	12.5	12.5	100.0	NO
54	57 13C8-PFOA	421.3 > 376	1.50e4	1.50e4	1.000	4.38	4.22	12.5	12.5	100.0	NO
55	58 13C9-PFNA	472.2 > 426.9	1.43e4	1.43e4	1.000	4.81	4.66	12.5	12.5	100.0	NO
56	59 13C4-PFOS	503 > 79.9	3.96e3	3.96e3	1.000	4.89	4.74	12.5	12.5	100.0	NO
57	60 13C6-PFDA	519.1 > 473.7	8.30e3	8.30e3	1.000	5.18	5.04	12.5	12.5	100.0	NO
58	61 13C7-PFUDa	570.1 > 524.8	1.40e4	1.40e4	1.000	5.49	5.36	12.5	12.5	100.0	NO

Dataset: Untitled

Last Altered: Saturday, January 13, 2018 11:19:22 Pacific Standard Time

Printed: Saturday, January 13, 2018 11:21:12 Pacific Standard Time

Method: U:\Q4.PRO\MethDB\PFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36

Calibration: 13 Jan 2018 11:19:22

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time
1	180111M2_1	ST180111M2-1 PFC CS0 17L2608	12-Jan-18	03:38:50
2	180111M2_2	IPA	12-Jan-18	03:49:59
3	180111M2_3	B7L0101-BS1 OPR 0.25	12-Jan-18	04:01:09
4	180111M2_4	B7L0101-BSD1 LCSD 0.25	12-Jan-18	04:12:24
5	180111M2_5	B7L0101-BLK1 Method Blank 0.25	12-Jan-18	04:23:34
6	180111M2_6	1701840-04 YS22-GW16-1217 0.1211	12-Jan-18	04:34:44
7	180111M2_7	1701840-05 YS22-GW10-1217 0.11512	12-Jan-18	04:45:56
8	180111M2_8	1701840-10 YS22-GW18-1117 0.1082	12-Jan-18	04:57:07
9	180111M2_9	1701851-01 FT-PZ-462S-20171202 0.22334	12-Jan-18	05:08:18
10	180111M2_10	1701851-02 FT-PZ-462I-20171202 0.25131	12-Jan-18	05:19:28
11	180111M2_11	1701851-03 FT-PZ-455S-20171202 0.2638	12-Jan-18	05:30:39
12	180111M2_12	1701851-04 FT-PZ-455I-20171202 0.25637	12-Jan-18	05:41:50
13	180111M2_13	1701851-05 FT-PZ-453S-20171202 0.23285	12-Jan-18	05:53:01
14	180111M2_14	1701851-06 FT-PZ-453S-FRB-20171202 0.26...	12-Jan-18	06:04:12
15	180111M2_15	1701851-07 FT-PZ-456I-FRB-20171204 0.2536	12-Jan-18	06:15:23
16	180111M2_16	1701851-08 FT-PZ-456I-20171204 0.26041	12-Jan-18	06:26:36
17	180111M2_17	1701851-09 FT-PZ-456S-20171204 0.25898	12-Jan-18	06:37:48
18	180111M2_18	IPA	12-Jan-18	06:48:59
19	180111M2_19	ST180111M2-2 PFC CS3 17L2611	12-Jan-18	07:00:09
20	180111M2_20	IPA	12-Jan-18	07:11:21
21	180111M2_21	1701802-01RE1@5X FC-MW02SR1-NP-2017...	12-Jan-18	07:22:31
22	180111M2_22	1701802-02RE1@5X FC-MW02SR1-P1-2017...	12-Jan-18	07:33:43
23	180111M2_23	1701802-03RE1@5X FC-MW02SR1-P2-2017...	12-Jan-18	07:44:53
24	180111M2_24	1701802-04RE1@5X FC-MW02SR1-P3-2017...	12-Jan-18	07:56:04
25	180111M2_25	IPA	12-Jan-18	08:07:15
26	180111M2_26	ST180111M2-2 PFC CS3 17L2611	12-Jan-18	08:18:25
27	180111M2_27	IPA	12-Jan-18	08:29:37

Calverton
SDG 1701802

Sample Identification FC-MW02SR1-NP-20171128

Compound PERFLUORODECANOIC ACID (PFDA)

Sample volume (L) 0.259

Internal standard concentration 1.25

Concentration using quadratic/calibration curve

Area*(IS concentration/IS area) 16.3835

13500*(1.25/10300)

Curve

Calibration curve (y)=-0.000357197*x^2+1.11476*x+0.00619633

pg 582 of data package

-0.000357197*x^2+1.11476*x+0.00619633=16.3835

-0.000357197*x^2+1.11476*x-16.3773=0

a= -0.000357197

b= 1.11476

c= -16.3773

$D=1.11476^2-4*-0.000357197*-16.3773$

1.219290

SQRT D

1.104214729

$x=-(1.11476+1.104214729)/(2*-0.000357197)$

14.7611415

PFDA result Conc = x/wt

56.99282 ng/L

result reported

56.9 ng/L

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	CALVERTON_NWIRP	1701802							N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02SR1-FRB-20171128	Water for QC samples	Field Reagent Blank	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02IR1	Monitoring well	1318372.56	273393.92	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02IR1-P3-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02SR1	Monitoring well	1318384.3	273393.05	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02SR1-NP-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02IR1	Monitoring well	1318372.56	273393.92	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02IR1-P1-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02SR1	Monitoring well	1318384.3	273393.05	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02SR1-P3-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02IR1	Monitoring well	1318372.56	273393.92	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02IR1-P2-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02IR1	Monitoring well	1318372.56	273393.92	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02IR1-NP-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02SR1	Monitoring well	1318384.3	273393.05	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02SR1-P2-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1701802	SITE 00006	SITE 00006	FCMW02SR1	Monitoring well	1318384.3	273393.05	N6247016D9008	WE05	TETRA TECH, INC.	FC-MW02SR1-P1-20171128	Ground water	Normal (Regular)	28-Nov-17	537	Perfluoroalkyl Compounds