"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","375-73-5","PFBS","2.80","ng/L","U","1.00","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","307-24-4","PFHxA","2.80","ng/L","U","1.22","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","375-85-9","PFHpA","2.80","ng/L","U","0.331","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","355-46-4","PFHxS","2.80","ng/L","U","0.530","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","335-67-1","PFOA","1.55","ng/L","J","0.364","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","1763-23-1","PFOS","2.80","ng/L","U","0.452","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","375-95-1","PFNA","0.733","ng/L","J","0.453","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","335-76-2","PFDA","2.80","ng/L","U","0.834","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","2355-31-9","MeFOSAA","2.80","ng/L","U","0.923","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80 " ""
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","2058-94-
8","PFUnA","2.80","ng/L","U","0.588","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","2991-50-6","EtFOSAA","2.80","ng/L","U","0.767","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80" ""
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","307-55-1","PFDoA","2.80","ng/L","U","0.443","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","72629-94-8","PFTrDA","2.80","ng/L","U","0.276","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80","
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","376-06-7","PFTeDA","2.80","ng/L","U","0.423","LOD","","TRG","","","4.48","LOQ","YES","-99","","0.223","0.001","2.80", ""
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C3-PFBS","13C3-PFBS","99.3","\%R","","-99","NA","","IS","99.3","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFHxA","13C2-PFHxA","101","\%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C4-PFHpA","13C4-PFHpA","96.6","\%R","","-99","NA","","IS","96.6","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","18O2-PFHxS","18O2-PFHxS","113","\%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFOA","13C2-PFOA","105","\%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C8-PFOS","13C8-PFOS","97.1","\%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C5-PFNA","13C5-PFNA","89.3","\%R","","-99","NA","","IS","89.3","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFDA","13C2-PFDA","67.9","\%R","","-99","NA","","IS","67.9","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","d3-MeFOSAA","d3-MeFOSAA","100","\%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFUnA","13C2-PFUnA","94.0","\%R","","-99","NA","","IS","94.0","","-99","NA","YES","100","","0.223","0.001","-99","" "FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","d5-EtFOSAA","d5-

EtFOSAA","77.0","\%R","","-99","NA","","IS","77.0","","-99","NA","YES","100","","0.223","0.001","-99",""
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFDoA","13C2-
PFDoA","70.1","\%R","","-99","NA","","IS","70.1","","-99","NA","YES","100","","0.223","0.001","-99",""
"FT-PZ-462S-20171202","Modified EPA Method 537","Initial","1701851-01","Vista","13C2-PFTeDA","13C2-
PFTeDA","62.6","\%R","","-99","NA","","IS","62.6","","-99","NA","YES","100","","0.223","0.001","-99",""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","375-73-
5","PFBS","2.49","ng/L","U","0.890","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49",""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","307-24-
4","PFHxA","2.49","ng/L","U","1.08","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49",""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","375-85-
9","PFHpA","2.49","ng/L","U","0.294","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49",""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","355-46-4","PFHxS","2.49","ng/L","U","0.471","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","335-67-1","PFOA","2.49","ng/L","U","0.324","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","1763-23-1","PFOS","2.49","ng/L","U","0.401","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","375-95-1","PFNA","2.49","ng/L","U","0.403","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","335-76-2","PFDA","2.49","ng/L","U","0.741","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","2355-31-9","MeFOSAA","2.49","ng/L","U","0.821","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49 ",""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","2058-94-
8","PFUnA","2.49","ng/L","U","0.522","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","2991-50-6","EtFOSAA","2.49","ng/L","U","0.681","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49" ""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","307-55-
1","PFDoA","2.49","ng/L","U","0.394","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","72629-94-8","PFTrDA","2.49","ng/L","U","0.246","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49","
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","376-06-7","PFTeDA","2.49","ng/L","U","0.376","LOD","","TRG","","","3.98","LOQ","YES","-99","","0.251","0.001","2.49", ""
"FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C3-PFBS","13C3-PFBS","118","\%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFHxA","13C2-PFHxA","115","\%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C4-PFHpA","13C4-PFHpA","118","\%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","18O2-PFHxS","18O2-PFHxS","113","\%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFOA","13C2-PFOA","108","\%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C8-PFOS","13C8-PFOS","122","\%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C5-PFNA","13C5-PFNA","97.5","\%R","","-99","NA","","IS","97.5","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFDA","13C2-PFDA","95.5","\%R","","-99","NA","","IS","95.5","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","d3-MeFOSAA","d3-

MeFOSAA","74.9","\%R","","-99","NA","","IS","74.9","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFUnA","13C2-PFUnA","81.2","\%R","","-99","NA","","IS","81.2","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","d5-EtFOSAA","d5-EtFOSAA","81.0","\%R","","-99","NA","","IS","81.0","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFDoA","13C2-PFDoA","71.3","\%R","","-99","NA","","IS","71.3","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-462I-20171202","Modified EPA Method 537","Initial","1701851-02","Vista","13C2-PFTeDA","13C2-PFTeDA","73.0","\%R","","-99","NA","","IS","73.0","","-99","NA","YES","100","","0.251","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","375-73-5","PFBS","2.37","ng/L","U","0.848","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","307-24-4","PFHxA","2.37","ng/L","U","1.03","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","375-85-9","PFHpA","2.37","ng/L","U","0.280","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","355-46-4","PFHxS","2.37","ng/L","U","0.449","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","335-67-1","PFOA","0.345","ng/L","J","0.308","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","1763-23-1","PFOS","2.37","ng/L","U","0.382","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","375-95-1","PFNA","2.37","ng/L","U","0.384","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","335-76-2","PFDA","2.37","ng/L","U","0.706","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","2355-31-9","MeFOSAA","2.37","ng/L","U","0.782","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37 " ""
"FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","2058-94-8","PFUnA","2.37","ng/L","U","0.498","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","2991-50-6","EtFOSAA","2.37","ng/L","U","0.649","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37" ""
"FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","307-55-1","PFDoA","2.37","ng/L","U","0.375","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","72629-94-8","PFTrDA","2.37","ng/L","U","0.234","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37","
"FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","376-06-7","PFTeDA","2.37","ng/L","U","0.358","LOD","","TRG","","","3.79","LOQ","YES","-99","","0.264","0.001","2.37", +
"FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C3-PFBS","13C3-PFBS","134","\%R","","-99","NA","","IS","134","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFHxA","13C2-PFHxA","101","\%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C4-PFHpA","13C4-PFHpA","111","\%R","","-99","NA","","IS","111","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","18O2-PFHxS","18O2-PFHxS","101","\%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFOA","13C2-PFOA","104","\%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C8-PFOS","13C8-PFOS","124","\%R","","-99","NA","","IS","124","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C5-PFNA","13C5-

PFNA","88.0","\%R","","-99","NA","","IS","88.0","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFDA","13C2-PFDA","81.0","\%R","","-99","NA","","IS","81.0","","-99","NA","YES","100","","0.264","0.001","-99","' "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","d3-MeFOSAA","d3-MeFOSAA","93.8","\%R","","-99","NA","","IS","93.8","","-99","NA","YES","100","","0.264","0.001","-99","' "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFUnA","13C2-PFUnA","96.1","\%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","d5-EtFOSAA","d5-EtFOSAA","91.8","\%R","","-99","NA","","IS","91.8","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFDoA","13C2-PFDoA","83.1","\%R","","-99","NA","","IS","83.1","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455S-20171202","Modified EPA Method 537","Initial","1701851-03","Vista","13C2-PFTeDA","13C2-PFTeDA","78.6","\%R","","-99","NA","","IS","78.6","","-99","NA","YES","100","","0.264","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","375-73-5","PFBS","2.44","ng/L","U","0.873","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","307-24-4","PFHxA","2.44","ng/L","U","1.06","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","375-85-9","PFHpA","2.44","ng/L","U","0.288","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","355-46-4","PFHxS","2.44","ng/L","U","0.462","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","335-67-1","PFOA","2.44","ng/L","U","0.317","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","1763-23-1","PFOS","2.44","ng/L","U","0.393","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","375-95-1","PFNA","2.44","ng/L","U","0.395","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","335-76-2","PFDA","2.44","ng/L","U","0.726","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","2355-31-9","MeFOSAA","2.44","ng/L","U","0.805","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44 " ""
"FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","2058-94-8","PFUnA","2.44","ng/L","U","0.512","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","2991-50-6","EtFOSAA","2.44","ng/L","U","0.668","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44"
"FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","307-55-
1","PFDoA","2.44","ng/L","U","0.386","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","72629-94-8","PFTrDA","2.44","ng/L","U","0.241","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44","
"FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","376-06-7","PFTeDA","2.44","ng/L","U","0.368","LOD","","TRG","","","3.90","LOQ","YES","-99","","0.256","0.001","2.44", ""
"FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C3-PFBS","13C3-PFBS","141","\%R","","-99","NA","","IS","141","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFHxA","13C2-PFHxA","113","\%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C4-PFHpA","13C4-PFHpA","108","\%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","18O2-PFHxS","18O2-PFHxS","117","\%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFOA","13C2-

PFOA","116","\%R","","-99","NA","","IS","116","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C8-PFOS","13C8-PFOS","102","\%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C5-PFNA","13C5-PFNA","99.4","\%R","","-99","NA","","IS","99.4","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFDA","13C2-PFDA","100","\%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","d3-MeFOSAA","d3-MeFOSAA","88.1","\%R","","-99","NA","","IS","88.1","","-99","NA","YES","100","","0.256","0.001","-99","' "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFUnA","13C2-PFUnA","76.7","\%R","","-99","NA","","IS","76.7","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","d5-EtFOSAA","d5-EtFOSAA","81.5","\%R","","-99","NA","","IS","81.5","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFDoA","13C2-PFDoA","83.7","\%R","","-99","NA","","IS","83.7","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-455I-20171202","Modified EPA Method 537","Initial","1701851-04","Vista","13C2-PFTeDA","13C2-PFTeDA","94.8","\%R","","-99","NA","","IS","94.8","","-99","NA","YES","100","","0.256","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","375-73-5","PFBS","2.68","ng/L","U","0.961","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","307-24-4","PFHxA","2.68","ng/L","U","1.17","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","375-85-9","PFHpA","2.68","ng/L","U","0.317","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","355-46-4","PFHxS","2.68","ng/L","U","0.508","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","335-67-1","PFOA","0.693","ng/L","J","0.349","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","1763-23-1","PFOS","2.68","ng/L","U","0.433","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","375-95-1","PFNA","2.68","ng/L","U","0.435","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","335-76-2","PFDA","2.68","ng/L","U","0.800","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","2355-31-9","MeFOSAA","2.68","ng/L","U","0.886","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68 " ""
"FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","2058-94-8","PFUnA","2.68","ng/L","U","0.564","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","2991-50-6","EtFOSAA","2.68","ng/L","U","0.735","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68" ,
"FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","307-55-
1","PFDoA","2.68","ng/L","U","0.425","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","72629-94-8","PFTrDA","2.68","ng/L","U","0.265","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68","
"FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","376-06-7","PFTeDA","2.68","ng/L","U","0.405","LOD","","TRG","","","4.29","LOQ","YES","-99","","0.233","0.001","2.68", ""
"FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C3-PFBS","13C3-PFBS","122","\%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFHxA","13C2-PFHxA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C4-PFHpA","13C4-

PFHpA","114","\%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","18O2-PFHxS","18O2-PFHxS","105","\%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFOA","13C2-PFOA","118","\%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C8-PFOS","13C8-PFOS","122","\%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C5-PFNA","13C5-PFNA","117","\%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFDA","13C2-PFDA","99.2","\%R","","-99","NA","","IS","99.2","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","d3-MeFOSAA","d3-MeFOSAA","117","\%R","","-99","NA","","IS","117","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFUnA","13C2-PFUnA","135","\%R","","-99","NA","","IS","135","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","d5-EtFOSAA","d5-EtFOSAA","105","\%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFDoA","13C2-PFDoA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-20171202","Modified EPA Method 537","Initial","1701851-05","Vista","13C2-PFTeDA","13C2-PFTeDA","129","\%R","","-99","NA","","IS","129","","-99","NA","YES","100","","0.233","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","375-73-5","PFBS","2.39","ng/L","U","0.855","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","307-24-4","PFHxA","2.39","ng/L","U","1.04","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","375-85-9","PFHpA","2.39","ng/L","U","0.282","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","355-46-4","PFHxS","2.39","ng/L","U","0.453","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","335-67-1","PFOA","2.39","ng/L","U","0.311","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","1763-23-1","PFOS","2.39","ng/L","U","0.386","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","375-95-1","PFNA","2.39","ng/L","U","0.387","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","335-76-2","PFDA","2.39","ng/L","U","0.712","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","2355-31-9","MeFOSAA","2.39","ng/L","U","0.788","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39 "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","2058-94-8","PFUnA","2.39","ng/L","U","0.502","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","2991-50-6","EtFOSAA","2.39","ng/L","U","0.655","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39" ""
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","307-55-1","PFDoA","2.39","ng/L","U","0.378","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","72629-94-8","PFTrDA","2.39","ng/L","U","0.236","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39","
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","376-06-7","PFTeDA","2.39","ng/L","U","0.361","LOD","","TRG","","","3.82","LOQ","YES","-99","","0.262","0.001","2.39", ""
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C3-PFBS","13C3-

PFBS","125","\%R","","-99","NA","","IS","125","","-99","NA","YES","100","","0.262","0.001","-99",""
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFHxA","13C2-PFHxA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.262","0.001","-99",""
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C4-PFHpA","13C4-PFHpA","116","\%R","","-99","NA","","IS","116","","-99","NA","YES","100","","0.262","0.001","-99",""
"FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","18O2-PFHxS","18O2-PFHxS","114","\%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFOA","13C2-PFOA","105","\%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C8-PFOS","13C8-PFOS","124","\%R","","-99","NA","","IS","124","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C5-PFNA","13C5-PFNA","102","\%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFDA","13C2-PFDA","82.0","\%R","","-99","NA","","IS","82.0","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","d3-MeFOSAA","d3-MeFOSAA","96.3","\%R","","-99","NA","","IS","96.3","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFUnA","13C2-PFUnA","72.7","\%R","","-99","NA","","IS","72.7","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","d5-EtFOSAA","d5-EtFOSAA","77.5","\%R","","-99","NA","","IS","77.5","","-99","NA","YES","100","","0.262","0.001","-99", "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFDoA","13C2-PFDoA","90.3","\%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-453S-FRB-20171202","Modified EPA Method 537","Initial","1701851-06","Vista","13C2-PFTeDA","13C2-PFTeDA","98.9","\%R","","-99","NA","","IS","98.9","","-99","NA","YES","100","","0.262","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","375-73-5","PFBS","2.46","ng/L","U","0.882","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","307-24-4","PFHxA","2.46","ng/L","U","1.07","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","375-85-9","PFHpA","2.46","ng/L","U","0.291","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","355-46-4","PFHxS","2.46","ng/L","U","0.467","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","335-67-1","PFOA","2.46","ng/L","U","0.321","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","1763-23-1","PFOS","2.46","ng/L","U","0.398","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","375-95-1","PFNA","2.46","ng/L","U","0.399","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","335-76-2","PFDA","2.46","ng/L","U","0.734","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","2355-31-9","MeFOSAA","2.46","ng/L","U","0.813","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46
"FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","2058-94-8","PFUnA","2.46","ng/L","U","0.518","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","2991-50-6","EtFOSAA","2.46","ng/L","U","0.675","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46"
"FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","307-55-1","PFDoA","2.46","ng/L","U","0.390","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","72629-94-8","PFTrDA","2.46","ng/L","U","0.243","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","
"FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","376-06-7","PFTeDA","2.46","ng/L","U","0.372","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46", ""
"FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C3-PFBS","13C3-PFBS","118","\%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFHxA","13C2-PFHxA","111","\%R","","-99","NA","","IS","111","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C4-PFHpA","13C4-PFHpA","106","\%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","18O2-PFHxS","18O2-PFHxS","94.5","\%R","","-99","NA","","IS","94.5","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFOA","13C2-PFOA","106","\%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C8-PFOS","13C8-PFOS","114","\%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C5-PFNA","13C5-PFNA","113","\%R","","-99","NA","","IS","113","","-99","NA","YES","100","","0.254","0.001","-99","' "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFDA","13C2-PFDA","107","\%R","","-99","NA","","IS","107","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","d3-MeFOSAA","d3-MeFOSAA","81.9","\%R","","-99","NA","","IS","81.9","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFUnA","13C2-PFUnA","103","\%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","d5-EtFOSAA","d5-EtFOSAA","88.0","\%R","","-99","NA","","IS","88.0","","-99","NA","YES","100","","0.254","0.001","-99","' "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFDoA","13C2-PFDoA","87.8","\%R","","-99","NA","","IS","87.8","","-99","NA","YES","100","","0.254","0.001","-99","" "FT-PZ-456I-FRB-20171204","Modified EPA Method 537","Initial","1701851-07","Vista","13C2-PFTeDA","13C2-PFTeDA","91.1","\%R","","-99","NA","","IS","91.1","","-99","NA","YES","100","","0.254","0.001","-99",""
"FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","375-73-5","PFBS","2.40","ng/L","U","0.859","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","307-24-4","PFHxA","7.07","ng/L","","1.05","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","375-85-9","PFHpA","4.46","ng/L","","0.284","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","355-46-4","PFHxS","2.40","ng/L","U","0.455","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","335-67-1","PFOA","13.3","ng/L","","0.312","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","1763-23-1","PFOS","2.40","ng/L","U","0.387","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","375-95-1","PFNA","7.17","ng/L","","0.389","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","335-76-2","PFDA","2.40","ng/L","U","0.715","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","2355-31-9","MeFOSAA","2.40","ng/L","U","0.792","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40 " ""
"FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","2058-94-8","PFUnA","2.40","ng/L","U","0.504","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","2991-50-6","EtFOSAA","2.40","ng/L","U","0.658","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40"
"FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","307-55-

1","PFDoA","2.40","ng/L","U","0.380","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","72629-94-8","PFTrDA","2.40","ng/L","U","0.237","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40"," "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","376-06-7","PFTeDA","2.40","ng/L","U","0.362","LOD","","TRG","","","3.84","LOQ","YES","-99","","0.260","0.001","2.40", ""
"FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C3-PFBS","13C3-PFBS","124","\%R","","-99","NA","","IS","124","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFHxA","13C2-PFHxA","110","\%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C4-PFHpA","13C4-PFHpA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","18O2-PFHxS","18O2-PFHxS","98.5","\%R","","-99","NA","","IS","98.5","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFOA","13C2-PFOA","97.7","\%R","","-99","NA","","IS","97.7","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C8-PFOS","13C8-PFOS","107","\%R","","-99","NA","","IS","107","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C5-PFNA","13C5-PFNA","86.3","\%R","","-99","NA","","IS","86.3","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFDA","13C2-PFDA","109","\%R","","-99","NA","","IS","109","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","d3-MeFOSAA","d3-MeFOSAA","93.3","\%R","","-99","NA","","IS","93.3","","-99","NA","YES","100","","0.260","0.001","-99","' "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFUnA","13C2-PFUnA","111","\%R","","-99","NA","","IS","111","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","d5-EtFOSAA","d5-EtFOSAA","107","\%R","","-99","NA","","IS","107","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFDoA","13C2-PFDoA","104","\%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456I-20171204","Modified EPA Method 537","Initial","1701851-08","Vista","13C2-PFTeDA","13C2-PFTeDA","102","\%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.260","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","375-73-5","PFBS","2.41","ng/L","U","0.864","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","307-24-4","PFHxA","2.41","ng/L","U","1.05","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","375-85-9","PFHpA","2.41","ng/L","U","0.285","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","355-46-4","PFHxS","2.41","ng/L","U","0.457","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","335-67-1","PFOA","2.41","ng/L","U","0.314","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","1763-23-1","PFOS","2.41","ng/L","U","0.390","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","375-95-1","PFNA","2.41","ng/L","U","0.391","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","335-76-2","PFDA","2.41","ng/L","U","0.719","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","2355-31-9","MeFOSAA","2.41","ng/L","U","0.796","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41 " ""
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","2058-94-8","PFUnA","2.41","ng/L","U","0.507","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41",""
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","2991-50-
6","EtFOSAA","2.41","ng/L","U","0.661","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41" ""
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","307-55-
1","PFDoA","2.41","ng/L","U","0.382","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41",""
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","72629-94-
8","PFTrDA","2.41","ng/L","U","0.238","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41","
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","376-06-7","PFTeDA","2.41","ng/L","U","0.364","LOD","","TRG","","","3.86","LOQ","YES","-99","","0.259","0.001","2.41", ""
"FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C3-PFBS","13C3-PFBS","146","\%R","","-99","NA","","IS","146","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFHxA","13C2-PFHxA","120","\%R","","-99","NA","","IS","120","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C4-PFHpA","13C4-PFHpA","122","\%R","","-99","NA","","IS","122","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","18O2-PFHxS","18O2-PFHxS","114","\%R","","-99","NA","","IS","114","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFOA","13C2-PFOA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C8-PFOS","13C8-PFOS","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C5-PFNA","13C5-PFNA","108","\%R","","-99","NA","","IS","108","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFDA","13C2-PFDA","92.7","\%R","","-99","NA","","IS","92.7","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","d3-MeFOSAA","d3-MeFOSAA","81.1","\%R","","-99","NA","","IS","81.1","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFUnA","13C2-PFUnA","88.0","\%R","","-99","NA","","IS","88.0","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","d5-EtFOSAA","d5-EtFOSAA","84.1","\%R","","-99","NA","","IS","84.1","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFDoA","13C2-PFDoA","71.3","\%R","","-99","NA","","IS","71.3","","-99","NA","YES","100","","0.259","0.001","-99","" "FT-PZ-456S-20171204","Modified EPA Method 537","Initial","1701851-09","Vista","13C2-PFTeDA","13C2-PFTeDA","80.1","\%R","","-99","NA","","IS","80.1","","-99","NA","YES","100","","0.259","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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 " ""
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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",""
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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" ""
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","307-55-
1","PFDoA","2.50","ng/L","U","0.396","LOD","","TRG","","","4.00","LOQ","YES","-99","',"0.250","0.001","2.50","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","72629-94-8","PFTrDA","2.50","ng/L","U","0.247","LOD","","TRG","","","4.00","LOQ","YES","-99","',"0.250","0.001","2.50","
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-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", ""
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C3-PFBS","13C3-PFBS","134","\%R","',"-99","NA","","IS","134","","-99","NA","YES","100","',"0.250","0.001","-99","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFHxA","13C2-PFHxA","134","\%R","","-99","NA","","IS","134","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C4-PFHpA","13C4-PFHpA","106","\%R","',"-99","NA","","IS","106","","-99","NA","YES","100","","0.250","0.001","-99","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","18O2-PFHxS","18O2-PFHxS","112","\%R","","-99","NA","","IS","112","',"-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFOA","13C2-PFOA","98.3","\%R","","-99","NA","","IS","98.3","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C8-PFOS","13C8-PFOS","93.7","\%R","","-99","NA","","IS","93.7","',"-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C5-PFNA","13C5-PFNA","93.3","\%R","","-99","NA","","IS","93.3","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFDA","13C2-PFDA","92.6","\%R","","-99","NA","","IS","92.6","","-99","NA","YES","100","',"0.250","0.001","-99","" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","d3-MeFOSAA","d3-MeFOSAA","56.6","\%R","","-99","NA","","IS","56.6","","-99","NA","YES","100","","0.250","0.001","-99","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFUnA","13C2-PFUnA","71.4","\%R","',"-99","NA","',"IS","71.4","","-99","NA","YES","100","',"0.250","0.001","-99","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","d5-EtFOSAA","d5-EtFOSAA","57.8","\%R","","-99","NA","',"IS","57.8","","-99","NA","YES","100","","0.250","0.001","-99","'" "B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFDoA","13C2-PFDoA","69.9","\%R","',"-99","NA","',"IS","69.9","","-99","NA","YES","100","',"0.250","0.001","-99","'"
"B7L0101-BLK1","Modified EPA Method 537","Initial","B7L0101-BLK1","Vista","13C2-PFTeDA","13C2-PFTeDA","96.9","\%R","","-99","NA","',"IS","96.9","","-99","NA","YES","100","',"0.250","0.001","-99","'" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","375-735","PFBS","45.2","ng/L","',"0.895","LOD","","TRG","113","',"4.00","LOQ","YES","40.0","","0.250","0.001","2.50"," "
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","307-24-
4","PFHxA","37.4","ng/L","',"1.09","LOD","","TRG","93.5","","4.00","LOQ","YES","40.0","',"0.250","0.001","2.50", ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","375-85-
9","PFHpA","40.2","ng/L","","0.296","LOD","","TRG","100","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50" ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","355-46-
4","PFHxS","46.4","ng/L","","0.474","LOD","","TRG","116","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50" ,""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","335-67-

1","PFOA","33.0","ng/L","","0.326","LOD","","TRG","82.5","","4.00","LOQ","YES","40.0",","0.250","0.001","2.50", ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","1763-23-
1","PFOS","36.6","ng/L","","0.404","LOD","","TRG","91.6","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50", ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","375-95-
1","PFNA","34.6","ng/L","","0.405","LOD","","TRG","86.5","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50", ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","335-762","PFDA","50.9","ng/L","","0.745","LOD","","TRG","127","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50", ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","2355-31-
9","MeFOSAA","36.4","ng/L",","0.825","LOD",",","TRG","91.0","","4.00","LOQ","YES","40.0","","0.250","0.001"," 2.50",""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","2058-948","PFUnA","40.7","ng/L","","0.525","LOD","","TRG","102","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50" ""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","2991-50-
6","EtFOSAA","44.2","ng/L","","0.685","LOD","","TRG","111","","4.00","LOQ","YES","40.0","","0.250","0.001","2. 50",""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","307-55-
1","PFDoA","36.5","ng/L","","0.396","LOD","","TRG","91.2","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50 """
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","72629-94-
8","PFTrDA","32.7","ng/L","","0.247","LOD","","TRG","81.7","","4.00","LOQ","YES","40.0","","0.250","0.001","2.5 0",""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","376-06-
7","PFTeDA","37.4","ng/L","","0.378","LOD","","TRG","93.4","","4.00","LOQ","YES","40.0","","0.250","0.001","2.5 0",""
"B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C3-PFBS","13C3-PFBS","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100",","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFHxA","13C2-PFHxA","94.2","\%R","",--99","NA",",","IS","94.2","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C4-PFHpA","13C4-PFHpA","105","\%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","18O2-PFHxS","18O2-PFHxS","104","\%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFOA","13C2-PFOA","103","\%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C8-PFOS","13C8-PFOS","107","\%R","","-99","NA","","IS","107","","-99","NA","YES","100",","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C5-PFNA","13C5-PFNA","93.6","\%R","","-99","NA","","IS","93.6",","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFDA","13C2-PFDA","81.2","\%R","","-99","NA","","IS","81.2","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","d3-MeFOSAA","d3-MeFOSAA","93.0","\%R","","-99","NA","","IS","93.0","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFUnA","13C2-PFUnA","74.2","\%R","","-99","NA",","IS","74.2","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","d5-EtFOSAA","d5-EtFOSAA","71.1","\%R","","-99","NA","","IS","71.1","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFDoA","13C2-PFDoA","79.3","\%R","",--99","NA",",","IS","79.3","","-99","NA","YES","100",","0.250","0.001","-99","" "B7L0101-BS1","Modified EPA Method 537","Initial","B7L0101-BS1","Vista","13C2-PFTeDA","13C2-

PFTeDA","92.4","\%R","","-99","NA","","IS","92.4","","-99","NA","YES","100","","0.250","0.001","-99",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","375-73-
5","PFBS","37.3","ng/L","","0.895","LOD","","TRG","93.2","19.3","4.00","LOQ","YES","40.0","","0.250","0.001","2.
50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","307-24-
4","PFHxA","33.9","ng/L","","1.09","LOD","","TRG","84.8","9.83","4.00","LOQ","YES","40.0","","0.250","0.001","2 .50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","375-85-
9","PFHpA","33.6","ng/L","","0.296","LOD","","TRG","84.0","17.8","4.00","LOQ","YES","40.0","","0.250","0.001"," 2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","355-46-
4","PFHxS","39.3","ng/L","","0.474","LOD","","TRG","98.3","16.4","4.00","LOQ","YES","40.0","","0.250","0.001"," 2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","335-67-
1","PFOA","36.4","ng/L","","0.326","LOD","","TRG","91.1","9.93","4.00","LOQ","YES","40.0","","0.250","0.001","2 .50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","1763-23-
1","PFOS","40.0","ng/L","","0.404","LOD","","TRG","99.9","8.71","4.00","LOQ","YES","40.0","","0.250","0.001","2. 50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","375-95-
1","PFNA","38.2","ng/L","","0.405","LOD","","TRG","95.5","9.94","4.00","LOQ","YES","40.0","","0.250","0.001","2 .50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","335-76-
2","PFDA","34.1","ng/L","","0.745","LOD","","TRG","85.4","39.4","4.00","LOQ","YES","40.0","","0.250","0.001","2 .50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","2355-31-
9","MeFOSAA","28.1","ng/L","","0.825","LOD","","TRG","70.4","25.6","4.00","LOQ","YES","40.0","","0.250","0.00 1","2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","2058-94-
8","PFUnA","38.6","ng/L","","0.525","LOD","","TRG","96.6","5.10","4.00","LOQ","YES","40.0","","0.250","0.001"," 2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","2991-50-
6","EtFOSAA","29.8","ng/L","","0.685","LOD","","TRG","74.6","38.9","4.00","LOQ","YES","40.0","","0.250","0.001 ","2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","307-55-
1","PFDoA","44.9","ng/L","","0.396","LOD","","TRG","112","20.8","4.00","LOQ","YES","40.0","","0.250","0.001","
2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","72629-94-
8","PFTrDA","40.8","ng/L","","0.247","LOD","","TRG","102","22.0","4.00","LOQ","YES","40.0","","0.250","0.001", "2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","376-06-
7","PFTeDA","36.1","ng/L","","0.378","LOD","","TRG","90.2","3.46","4.00","LOQ","YES","40.0","","0.250","0.001", "2.50",""
"B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C3-PFBS","13C3-PFBS","123","\%R","","-99","NA","","IS","123","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFHxA","13C2-PFHxA","120","\%R","","-99","NA","","IS","120","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C4-PFHpA","13C4-PFHpA","115","\%R","","-99","NA","","IS","115","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","18O2-PFHxS","18O2-PFHxS","118","\%R","","-99","NA","","IS","118","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFOA","13C2-PFOA","112","\%R","","-99","NA","","IS","112","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C8-PFOS","13C8-

PFOS","123","\%R","","-99","NA","","IS","123","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C5-PFNA","13C5-PFNA","104","\%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFDA","13C2-PFDA","88.3","\%R","","-99","NA","","IS","88.3","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","d3-MeFOSAA","d3-MeFOSAA","80.1","\%R","","-99","NA","","IS","80.1","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFUnA","13C2-PFUnA","70.2","\%R","","-99","NA","","IS","70.2","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","d5-EtFOSAA","d5-EtFOSAA","81.7","\%R","","-99","NA","","IS","81.7","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFDoA","13C2-PFDoA","70.5","\%R","","-99","NA","","IS","70.5","","-99","NA","YES","100","","0.250","0.001","-99","" "B7L0101-BSD1","Modified EPA Method 537","Initial","B7L0101-BSD1","Vista","13C2-PFTeDA","13C2-PFTeDA","77.3","\%R","","-99","NA","","IS","77.3","","-99","NA","YES","100","","0.250","0.001","-99","" "112G08005-WE05","112G08005-WE05","FT-PZ-462S-20171202","12/02/2017 08:50","AQ","170185101","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/14/2018 18:36","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","12/05/2017 11:15","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","FT-PZ-462I-20171202","12/02/2017 08:52","AQ","170185102","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/12/2018 05:19","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","12/05/2017 11:15","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","FT-PZ-455S-20171202","12/02/2017 10:36","AQ","170185103","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/16/2018 02:20","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","12/05/2017 11:15","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","FT-PZ-455I-20171202","12/02/2017 10:45","AQ","170185104","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/16/2018 02:31","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","12/05/2017 11:15","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","FT-PZ-453S-20171202","12/02/2017 12:26","AQ","170185105","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/16/2018 02:43","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","12/05/2017 11:15","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","FT-PZ-453S-FRB-20171202","12/02/2017 12:26","AQ","170185106","NM","","0.60","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/16/2018 02:54","Vista","COA","WET","NA","1","NA","NA","01/01/1900
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BS1","LCS","","-99","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/14/2018
17:39","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","01/01/1900 00:00","01/01/1900 00:00","" "112G08005-WE05","112G08005-WE05","B7L0101-BSD1","01/01/1900 00:00","AQ","B7L0101-
BSD1","LCSD","","-99","Modified EPA Method 537","METHOD","Initial","12/14/2017 14:00","01/12/2018 04:12","Vista","COA","WET","NA","1","NA","NA","01/01/1900
00:00","100","B7L0101","B7L0101","NA","S8A0042","1701851","01/01/1900 00:00","01/01/1900 00:00",""

| TO: | K. FRANCISCO | DATE: | MARCH 16, 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) 1701851 |  |  |

## Overview

The sample set for NWIRP Calverton, SDG 1701851 consisted of seven (7) aqueous environmental samples and two (2) FRB samples. All samples were analyzed for polyfluoroalkyl substances (PFAS). No field duplicate pairs were included in this SDG.

The samples were collected by Tetra Tech, Inc. on December 2 and 4, 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:


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 .

## PEAS

The 28 day hold time from extraction to analyses was exceeded by one to five days for all samples. The detected and nondetected results reported in the affected samples were qualified as estimated (J) and (UJ), respectively.

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

It was noted by the laboratory that the original analyses of all samples except FT-PZ-462I-20171202 had one or more injected internal standards outside quality control limits. The laboratory re-injected the samples and all samples met acceptance criteria except for sample FT-PZ-456I-FRB-20171204 which contained one standard (13C9-PFHNA) with a low recovery ( $40 \%<x<50 \%$ ). All re-injected results are reported. No validation action was required as the injected internal standard does not affect sample quantitation and all extraction internal standards satisfied recovery limits.

The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) relative percent differences (RDs) for perfluorodecanoic acid (PFDA) and N -ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) were outside the quality control limits. No validation actions were required as all sample results were nondetects.

The continuing calibration performed on 01/16/2018 @ 5:00 had a percent recovery for perfluorododecanoic acid (PFDoA) which exceeded the 130\% laboratory quality control limit. Samples FT-PZ-453S-20171202, FT-PZ-453S-FRB-20171202, FT-PZ-455I-20171202, FT-PZ-455S-20171202, FT-PZ-456I-20171204, FT-PZ-456I-FRB-20171204 and FT-PZ-456S-20171204 were affected. No validation actions were warranted as the aforementioned sample results were nondetects.

## Executive Summary

Laboratory Performance Issues: Several hold times were exceeded due to sample re-analyses.
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" (2017). 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

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

APPENDIX C
SUPPORT DOCUMENTATION

| TO: | K. FRANCISCO | DATE: | MARCH 12, 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) 1701851 |  |  |

## Overview

The sample set for NWIRP Calverton, SDG 1701851 consisted of seven (7) aqueous environmental samples and two (2) FRB samples. All samples were analyzed for polyfluoroalkyl substances (PFAS). No field duplicate pairs were included in this SDG.

The samples were collected by Tetra Tech, Inc. on December 2 and 4, 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 |
| * | - $\quad$ 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 28 day hold time from extraction to analyses was exceeded by one to five days for all samples. The detected and nondetected results reported in the affected samples were qualified as estimated (J) and (UJ), respectively.

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

It was noted by the laboratory that the original analyses of all samples except FT-PZ-462I-20171202 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.

The laboratory control sample / laboratory control sample duplicate (LCS/LCSD) relative percent differences (RPDs) for perfluorodecanoic acid (PFDA) and n-ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA) were outside the quality control limits. No validation actions were required as all sample results were nondetects.

The continuing calibration performed on 01/16/2018 @ 5:00 had a percent recovery for perfluorododecanoic acid (PFDoA) which exceeded the 130\% laboratory quality control limit. Samples FT-PZ-453S-20171202, FT-PZ-453S-FRB-20171202, FT-PZ-455I-20171202, FT-PZ-455S-20171202, FT-PZ-456I-20171204, FT-PZ-456I-FRB-20171204 and FT-PZ-456S-20171204 were affected. No validation actions were warranted as the aforementioned sample results were nondetects.

## Executive Summary

Laboratory Performance Issues: Several hold times were exceeded.
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

[^0]TO: K. FRANCISCO
SDG: 1701851

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.

| $\mathbf{U}$ | The analyte was analyzed for, but was not detected at a level greater than or equal to <br> the level of the adjusted method detection limit for sample and method. |
| :---: | :--- |
| $\mathbf{J}$ | The analyte was positively identified and the associated numerical value is the <br> approximate concentration of the analyte in the sample (due either to the quality of <br> the data generated because certain quality control criteria were not met, or the <br> concentration of the analyte was below the reporting limit). |
| $\mathbf{J +}$ | The result is an estimated quantity, but the result may be biased high. |
| $\mathbf{J -}$ | The result is an estimated quantity, but the result may be biased low. |
| $\mathbf{U J}$ | The analyte was analyzed for, but was not detected. The reported detection limit is <br> approximate and may be inaccurate or imprecise. |
| $\mathbf{R}$ | The sample result (detected) is unusable due to the quality of the data generated <br> because certain criteria were not met. The analyte may or may not be present in the <br> sample. |
| $\mathbf{U R}$ | The sample result (nondetected) is unusable due to the quality of the data generated <br> because certain criteria were not met. The analyte may or may not be present in the <br> 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
$\mathrm{H}=$ 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)
$P \quad=$ Uncertainty near detection limit ( $<2 x$ IDL for inorganics and $<$ CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
$\mathrm{S}=$ Pesticide/PCB Resolution
T $\quad=$ \% Breakdown Noncompliance for DDT and Endrin
$U=$ RPD between columns/detectors $>40 \%$ for positive results determined via GC/HPLC
$\mathrm{V}=$ Non-linear calibrations; correlation coefficient $\mathrm{r}<0.995$
$\mathrm{W}=$ EMPC result
$X \quad=$ 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 | NSAMPLE | FT-PZ-453S-2 | 01712 |  | FT-PZ-453S-F | RB-20 | 1202 | FT-PZ-4551-201 | 17120 |  | FT-PZ-455S-2 | 01712 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SDG: 1701851 | LAB_ID | 1701851-05 |  |  | 1701851-06 |  |  | 1701851-04 |  |  | 1701851-03 |  |  |
| FRACTION: PFAS | SAMP_DATE | 12/2/2017 |  |  | 12/2/2017 |  |  | 12/2/2017 |  |  | 12/2/2017 |  |  |
| MEDIA: WATER | 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 PERFLUOROOC | TANE | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N-METHYL PERFLUORO | CTANE | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| SULFONAMIDOACETIC A | ANOIC ACID | 0.693 | J | HP | 2.39 | UJ | H | 2.44 | UJ | H | 0.345 | J | HP |
| PERFLUOROBUTANESUL | FONIC ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUORODECANOIC | CID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUORODODECANO | C ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROHEPTANOIC | ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROHEXANESUL | FONIC ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROHEXANOIC A | CID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUORONONANOIC | ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROOCTANE SUL | FONIC ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROTETRADECA | NOIC ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROTRIDECANO | C ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |
| PERFLUOROUNDECANO | C ACID | 2.68 | UJ | H | 2.39 | UJ | H | 2.44 | UJ | H | 2.37 | UJ | H |


| PROJ_NO: 08005-WE05 | NSAMPLE | FT-PZ-4561-20 | 17120 |  | FT-PZ-4561-FR | B-20 | 1204 | FT-PZ-456S-2017 | 01712 |  | FT-PZ-4621-20 | 1712 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SDG: 1701851 | LAB_ID | 1701851-08 |  |  | 1701851-07 |  |  | 1701851-09 |  |  | 1701851-02 |  |  |
| FRACTION: PFAS | SAMP_DATE | 12/4/2017 |  |  | 12/4/2017 |  |  | 12/4/2017 |  |  | 12/2/2017 |  |  |
| MEDIA: WATER | 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 PERFLUOROO | TANE | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N-METHYL PERFLUOROO | CTANE | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PENTADECAFLUOROOC | ANOIC ACID | 13.3 | J | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROBUTANESUL | FONIC ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUORODECANOIC | CID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUORODODECANO | C ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROHEPTANOIC | ACID | 4.46 | J | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROHEXANESUL | ONIC ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROHEXANOIC | CID | 7.07 | J | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUORONONANOIC | CID | 7.17 | J | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROOCTANE SUL | FONIC ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROTETRADECA | NOIC ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROTRIDECANO | C ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |
| PERFLUOROUNDECANO | ACID | 2.4 | UJ | H | 2.46 | UJ | H | 2.41 | UJ | H | 2.49 | UJ | H |



## Appendix B

Results as Reported by the Laboratory


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.


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.


DL - Detection Limit
LOD - Limit of Detection
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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.


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.


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.


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.


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.


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.


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

NWIRP Calverton PFAS Investigation
Project ID:
$112608005-\omega E 05$

PO\#: $\qquad$ Sampler: Beciu Beinfield $\begin{aligned} & \text { Jacob Birkeft } \\ & \text { hame) }\end{aligned}$ | Invoice to: Name |
| :--- |
| Relinquished by (printed name and signature) |

TetraTech 5700 Lakehright Dr, Suitel02 Nortolk

| Relinquished by (printed name and signature) | Date | Time | Received by (printed name and signature) | Date | Time |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Jacob Birkelt |  | $16$ | FedEx |  |  |
| $\qquad$ | Date | Time | Received by (printed name and signature) MADPSA. SOAntlos | $12 / 0511^{\circ}$ | Time 1146 |



| Container Types: $\mathrm{P}=$ HDPE, PJ= HDPE Jar | Bottle Preservation Type: $\mathrm{T}=$ Thiosulfate |
| :--- | :---: |
| $\mathrm{O}=$ Other: | $\mathrm{TZ}=$ Trizma: |

## $\mathrm{O}=\mathrm{Other}$ :

$\qquad$

| For Laboratory Use0nly |
| :--- |
| Work Order\#: |
| Storage ID: |
| WR_2 |

TAT Standard: 21 days
(check one): Rush (surcharge may apply)
Rush (surcharge may apply)
$\square 14$ days $\quad \square 7$ days Specify:
State
Ph\# $V A \quad 757-466-490$

Time $10517 \quad 1146$ 1146

## SDG Number WE05

## Vista Work Order No. 1701851

## Case Narrative

## Sample Condition on Receipt:

Nine groundwater samples 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

Samples "FT-PZ-462S-20171202" and "FT-PZ-453S-20171202" contained particulate and were centrifuged prior to extraction.

The aqueous 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.

## 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 of all samples except "FT-PZ-462I-20171202" and the LCSD were re-injected because one or more Injection Internal Standard Analyte response areas were outside of criteria. The results were similar in the second injection. The results from the re-injections have been reported. The raw data from the original analyses are included in the report.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

## DATA QUALIFIERS \& ABBREVIATIONS

B This compound was also detected in the method blank.
D Dilution
E The associated compound concentration exceeded the calibration range of the instrument.

H Recovery and/or RPD was outside laboratory acceptance limits.
I Chemical Interference
J The amount detected is below the Reporting Limit/LOQ.
M Estimated Maximum Possible Concentration. (CA Region 2 projects only)

* See Cover Letter

Conc. Concentration
NA Not applicable
ND Not Detected

TEQ Toxic Equivalency
U Not Detected (specific projects only)

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.


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: LCSD |  |  |  |  |  |  |  |  |  |  | Modified EPA Method 537 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name: <br> Project: <br> Matrix: | Tetra Tech <br> NWIRP Calverton PFAS Investigation 112G08005. <br> Aqueous |  |  | Lab Sample: QC Batch: Samp Size: | $\begin{aligned} & \text { B7L0101-BS1/B7L0101-BSD1 } \\ & \text { B7L0101 } \\ & 0.250 / 0.250 \mathrm{~L} \quad \text { rpd used } 30 \% \end{aligned}$ |  |  |  |  | Date Extracted: Column: |  |  | $\begin{aligned} & \text { 14-Dec-17 } \\ & \text { BEH C18 } \end{aligned}$ |  |
| Analyte | $\begin{gathered} \hline \text { LCS } \\ (\mathrm{ng} / \mathrm{L}) \end{gathered}$ | LCS <br> Spike Amt | $\begin{gathered} \hline \text { LCS } \\ \text { \% Rec } \\ \hline \end{gathered}$ | LCS <br> Quals | $\begin{aligned} & \hline \text { LCSD } \\ & (\mathrm{ng} / \mathrm{L}) \end{aligned}$ | LCSD <br> Spike Amt | $\begin{aligned} & \hline \text { LCSD } \\ & \text { \% Rec } \end{aligned}$ | RPD | LCSD Quals | \%Rec RPD <br> Limits Limits | LCS <br> Analyzed | $\begin{gathered} \hline \text { LCS } \\ \text { Dil } \end{gathered}$ | LCSD L <br> Analyzed  | $\begin{gathered} \text { LCSD } \\ \text { Dil } \end{gathered}$ |
| PFBS | 45.2 | 40.0 | 113 |  | 37.3 | 40.0 | 93.2 | 19.3 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFHxA | 37.4 | 40.0 | 93.5 |  | 33.9 | 40.0 | 84.8 | 9.83 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFHpA | 40.2 | 40.0 | 100 |  | 33.6 | 40.0 | 84.0 | 17.8 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFHxS | 46.4 | 40.0 | 116 |  | 39.3 | 40.0 | 98.3 | 16.4 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFOA | 33.0 | 40.0 | 82.5 |  | 36.4 | 40.0 | 91.1 | 9.93 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFOS | 36.6 | 40.0 | 91.6 |  | 40.0 | 40.0 | 99.9 | 8.71 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFNA | 34.6 | 40.0 | 86.5 |  | 38.2 | 40.0 | 95.5 | 994 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFDA | 50.9 | 40.0 | 127 |  | 34.1 | 40.0 | 85.4 | 39.4 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| MeFOSAA | 36.4 | 40.0 | 91.0 |  | 28.1 | 40.0 | 70.4 | 25.6 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFUnA | 40.7 | 40.0 | 102 |  | 38.6 | 40.0 | 96.6 | 5.10 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| EtFOSAA | 44.2 | 40.0 | 111 |  | 29.8 | 40.0 | 74.6 | 38.9 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFDoA | 36.5 | 40.0 | 91.2 |  | 44.9 | 40.0 | 112 | 20.8 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFTrDA | 32.7 | 40.0 | 81.7 |  | 40.8 | 40.0 | 102 | 22.0 |  | 60-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| PFTeDA | 37.4 | 40.0 | 93.4 |  | 36.1 | 40.0 | 90.2 | 3.46 |  | 70-130 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| Labeled Standards | ds Type |  | $\begin{gathered} \text { LCS } \\ \text { \% Rec } \end{gathered}$ | LCS <br> Quals |  |  | $\begin{aligned} & \text { LCSD } \\ & \text { \% Rec } \\ & \hline \end{aligned}$ |  | $\begin{gathered} \text { LCSD } \\ \text { Quals } \\ \hline \end{gathered}$ | Limits | LCS <br> Analyzed | $\begin{gathered} \text { LCS } \\ \text { Dil } \\ \hline \end{gathered}$ | LCSD Analyzed | $\begin{gathered} \text { LCSD } \\ \text { Dil } \end{gathered}$ |
| 13C3-PFBS | IS |  | 112 |  |  |  | 123 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 12 |
| 13C2-PFHxA | IS |  | 94.2 |  |  |  | 120 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 2 |
| 13C4-PFHpA | IS |  | 105 |  |  |  | 115 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 12 |
| 18O2-PFHxS | IS |  | 104 |  |  |  | 118 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 2 |
| 13C2-PFOA | IS |  | 103 |  |  |  | 112 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C8-PFOS | IS |  | 107 |  |  |  | 123 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C5-PFNA | IS |  | 93.6 |  |  |  | 104 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C2-PFDA | IS |  | 81.2 |  |  |  | 88.3 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| d3-MeFOSAA | IS |  | 93.0 |  |  |  | 80.1 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C2-PFUnA | IS |  | 74.2 |  |  |  | 70.2 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| d5-EtFOSAA | IS |  | 71.1 |  |  |  | 81.7 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C2-PFDoA | IS |  | 79.3 |  |  |  | 70.5 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |
| 13C2-PFTeDA | IS |  | 92.4 |  |  |  | 77.3 |  |  | 50-150 | 14-Jan-18 17:39 | 1 | 12-Jan-18 04:12 | 1 |

Dataset: U:IQ4.PRO\results\180114M1\180114M1-22.qld
Last Altered: Monday, January 15, 2018 16:04:21 Pacific Standard Time
Printed: $\quad$ Tuesday, January 16, 2018 15:24:12 Pacific Standard Time

Method: U:IQ4.PRO\MethDB\PFAS FULL 80C 010818D.mdb 15 Jan 2018 12:58:53
Calibration: U:\Q4.PRO\CurveDBIC18_VAL-PFĀS_Q4_01-14-18-FULL.cdb 15 Jan 2018 14:59:56
Name: 180114M1_22, Date: 14-Jan-2018, Time: 17:39:19, ID: B7L0101-BS1 OPR 0.25, Description: OPR
used 70-130

|  | \# Name | Trace | Area | IS Area | Wt./Vol. | RRF | Pred.RT | RT | y Axis Resp. | Conc. | \%Rec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 3 PFBS | 299.0 > 79.7 | 1.70 e 3 | 9.84 e 2 | 0.250 |  | 2.60 | 2.50 | 21.6 | 45.2469 | 113.1 |
| 2 | 4 PFHxA | $313.2>268.9$ | 7.46 e 3 | 2.18 e 3 | 0.250 |  | 3.00 | 2.93 | 17.1 | 37.4119 | 93.5 |
| 3 | 5 PFHpA | 363.0 > 318.9 | 6.48 e 3 | 6.23 e 3 | 0.250 |  | 3.54 | 3.45 | 13.0 | 40.1564 | 100.4 |
| 4 | 6 L-PFHxS | $398.9>79.6$ | 1.13 e 3 | 8.58 e 2 | 0.250 |  | 3.68 | 3.59 | 16.5 | 38.6165 | 96.5 |
| 5 | 9 L-PFOA | $413>368.7$ | 7.74 e 3 | 9.69 e 3 | 0.250 |  | 4.07 | 3.97 | 9.99 | 32.9917 | 82.5 |
| 6 | 12 PFNA | 463.0 > 418.8 | 7.92 e 3 | 7.67 e 3 | 0.250 |  | 4.54 | 4.44 | 12.9 | 34.5837 | 86.5 |
| 7 | 14 L-PFOS | $499>79.9$ | 2.04 e 3 | 2.34 e 3 | 0.250 |  | 4.63 | 4.53 | 10.9 | 36.6409 | 91.6 |
| 8 | 16 PFDA | $513>468.8$ | 7.74 e 3 | 5.71 e 3 | 0.250 |  | 4.94 | 4.84 | 16.9 | 50.8942 | 127.2 |
| 9 | $18 \mathrm{~N}-\mathrm{MeFOSAA}$ | $570.1>419$ | 2.73 e 3 | 1.75 e 3 | 0.250 |  | 5.10 | 4.99 | 19.6 | 36.3965 | 91.0 |
| 10 | $19 \mathrm{~N}-\mathrm{EtFOSAA}$ | $584.2>419$ | 2.03 e 3 | 1.84 e 3 | 0.250 |  | 5.27 | 5.18 | 13.8 | 44.2203 | 110.6 |
| 11 | 20 PFUdA | 563.0 > 518.9 | 5.30 e 3 | 5.51 e 3 | 0.250 |  | 5.30 | 5.19 | 12.0 | 40.6734 | 101.7 |
| 12 | 22 PFDoA | $612.9>569.0$ | 7.90e3 | 4.22 e 3 | 0.250 |  | 5.60 | 5.50 | 23.4 | 36.4670 | 91.2 |

Dataset: U:\Q4.PRO\results\180114M1\180114M1-22.qld
Last Altered: Monday, January 15, 2018 16:04:21 Pacific Standard Time
Printed: Tuesday, January 16, 2018 15:24:21 Pacific Standard Time

Method: U:|Q4.PRO\MethDB\PFAS FULL 80C 010818D.mdb 15 Jan 2018 12:58:53
Calibration: U:|Q4.PRO\CurveDBIC18_VAL-PFĀ_Q4_01-14-18-FULL.cdb 15 Jan 2018 14:59:56
Name: 180114M1_22, Date: 14-Jan-2018, Time: 17:39:19, ID: B7L0101-BS1 OPR 0.25, Description: OPR

|  | \# Name | Trace | Area | IS Area | Wt./Vol. | RRF | Pred.RT | RT | y Axis Resp. | Conc. | \%Rec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 24 PFTrDA | $662.9>618.9$ | 8.73 e 3 | 2.21 e 3 | 0.250 |  | 5.85 | 5.77 | 49.4 | 32.6863 | 81.7 |
| 2 | 25 PFTeDA | $712.9>668.8$ | 4.46 e 3 | 2.21 e 3 | 0.250 |  | 6.10 | 6.00 | 25.2 | 37.3644 | 93.4 |
| 3 | 33 13C3-PFBS | 302. > 98.8 | 9.84 e 2 | 9.12 e 3 | 0.250 | 0.097 | 2.60 | 2.50 | 1.35 | 55.8744 | 111.7 |
| 4 | 34 13C2-PFHxA | $315>269.8$ | 2.18 e 3 | 9.12 e 3 | 0.250 | 0.633 | 3.00 | 2.93 | 2.99 | 18.8494 | 94.2 |
| 5 | 35 13C4-PFHpA | $367.2>321.8$ | 6.23 e 3 | 9.12 e 3 | 0.250 | 0.651 | 3.56 | 3.46 | 8.54 | 52.4882 | 105.0 |
| 6 | 36 18O2-PFHxS | 403.0 > 102.6 | 8.58 e 2 | 2.53 e 3 | 0.250 | 0.326 | 3.68 | 3.59 | 4.23 | 52.0073 | 104.0 |
| 7 | 37 13C2-6:2 FTS | $429.1>408.9$ | 1.77 e 3 | 1.04 e 4 | 0.250 | 0.171 | 4.00 | 3.88 | 2.13 | 50.0579 | 100.1 |
| 8 | 38 13C2-PFOA | 414.9 > 369.7 | 9.69 e 3 | 1.04 e 4 | 0.250 | 0.903 | 4.07 | 3.97 | 11.7 | 51.5852 | 103.2 |
| 9 | 39 13C5-PFNA | 468.2 > 422.9 | 7.67 e 3 | 9.71 e 3 | 0.250 | 0.844 | 4.54 | 4.44 | 9.88 | 46.8144 | 93.6 |
| 10 | 40 13C8-PFOSA | $506.1>77.7$ | 8.00 e 2 | 8.26 e 3 | 0.250 | 0.165 | 4.61 | 4.51 | 1.21 | 29.2913 | 58.6 |
| 11 | 41 13C8-PFOS | $507.0>79.9$ | 2.34 e 3 | 2.38 e 3 | 0.250 | 0.920 | 4.62 | 4.52 | 12.3 | 53.4590 | 106.9 |
| 12 | 42 13C2-PFDA | $515.1>469.9$ | 5.71 e 3 | 6.74 e 3 | 0.250 | 1.044 | 4.82 | 4.84 | 10.6 | 40.5772 | 81.2 |
| 13 | 43 13C2-8:2 FTS | $529.1>508.7$ | 9.83 e 2 | 9.12 e 3 | 0.250 | 0.087 | 4.89 | 4.79 | 1.35 | 62.2789 | 124.6 |
| 14 | $44 \mathrm{~d} 3-\mathrm{N}-\mathrm{MeFOSAA}$ | $573.3>419$ | 1.75 e 3 | 8.26 e 3 | 0.250 | 0.227 | 5.08 | 4.99 | 2.64 | 46.5235 | 93.0 |
| 15 | $45 \mathrm{d5}-\mathrm{N}$-EtFOSAA | $589.3>419$ | 1.84 e 3 | 8.26 e 3 | 0.250 | 0.313 | 5.27 | 5.17 | 2.79 | 35.5689 | 71.1 |
| 16 | 46 13C2-PFUdA | $565>519.8$ | 5.51 e 3 | 8.26 e 3 | 0.250 | 0.899 | 5.28 | 5.19 | 8.34 | 37.0850 | 74.2 |
| 17 | 47 13C2-PFDoA | $615.0>569.7$ | 4.22 e 3 | 8.26 e 3 | 0.250 | 0.645 | 5.60 | 5.50 | 6.39 | 39.6532 | 79.3 |
| 18 | 49 13C2-PFTeDA | $714.8>669.6$ | 2.21 e 3 | 8.26 e 3 | 0.250 | 0.290 | 6.10 | 6.00 | 3.35 | 46.1849 | 92.4 |
| 19 | 55 13C5-PFHxA | $318>272.9$ | 9.12 e 3 | 9.12 e 3 | 0.250 | 1.000 | 3.00 | 2.93 | 12.5 | 50.0000 | 100.0 |
| 20 | 56 13C3-PFHxS | $401.9>79.9$ | 2.53 e 3 | 2.53 e 3 | 0.250 | 1.000 | 3.68 | 3.59 | 12.5 | 50.0000 | 100.0 |
| 21 | 57 13C8-PFOA | $421.3>376$ | 1.04 e 4 | 1.04 e 4 | 0.250 | 1.000 | 4.07 | 3.96 | 12.5 | 50.0000 | 100.0 |
| 22 | 58 13C9-PFNA | $472.2>426.9$ | 9.71 e 3 | 9.71 e 3 | 0.250 | 1.000 | 4.54 | 4.44 | 12.5 | 50.0000 | 100.0 |
| 23 | 59 13C4-PFOS | $503>79.9$ | 2.38 e 3 | 2.38 e 3 | 0.250 | 1.000 | 4.63 | 4.53 | 12.5 | 50.0000 | 100.0 |
| 24 | 60 13C6-PFDA | $519.1>473.7$ | 6.74 e 3 | 6.74 e 3 | 0.250 | 1.000 | 4.94 | 4.84 | 12.5 | 50.0000 | 100.0 |
| 25 | 61 13C7-PFUdA | $570.1>524.8$ | 8.26 e 3 | 8.26 e 3 | 0.250 | 1.000 | 5.28 | 5.19 | 12.5 | 50.0000 | 100.0 |
| 26 | 62 Total PFHxS | $398.9>79.6$ | 1.37 e 3 | 8.58 e 2 | 0.250 |  | 3.50 |  | 19.9 | 46.3681 |  |
| 27 | 63 Total PFOA | $413>368.7$ | 7.74 e 3 | 9.69 e 3 | 0.250 |  | 3.90 |  | 9.99 | 32.9917 |  |
| 28 | 64 Total PFOS | $499>79.9$ | 2.04 e 3 | 2.34 e 3 | 0.250 |  | 4.50 |  | 10.9 | 36.6409 |  |
| 29 | 65 Total N-MeFOSAA | $570.1>419$ | 2.73 e 3 | 1.75 e 3 | 0.250 |  | 5.00 |  | 19.6 | 36.3965 |  |
| 30 | 66 Total N-EtFOSAA | $584.2>419$ | 2.03 e 3 | 1.84 e 3 | 0.250 |  | 5.20 |  | 13.8 | 44.2203 |  |

Prepared using: LCMS - SPE Extraction-LCMS
KC 1211417

|  |  | Date/nit | 13 | $2 / 1 / 17$ |  | Balancell: H [/ | 4-8 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cen | $\begin{gathered} \text { VISTA } \\ \text { Sample ID } \end{gathered}$ | $\underset{\text { Befor }}{\substack{\mathrm{pH}}}$ | $\underset{\text { After }}{\substack{\mathrm{pH} \\ \hline}}$ | $\underset{\substack{\text { Chlorine }}}{\substack{\text { (1) }}}$ | Drops HCl Added | Bottle + Sample (g) | Bottle <br> Only <br> (g) | Sample <br> Amt. <br> (L) | $\begin{gathered} \text { IS/NS } \\ \text { CHEM/WIT } \\ \text { DATE } \end{gathered}$ | SPE | $\underset{\substack{\text { RSS } \\ \text { CHATEIT }}}{\text { DATE }}$ |
| $\square$ | B7L0101-BLK1 | 5 | 2 | $\bigcirc$ | 3 | $N A$ | $N A$ | (0.250) | $K_{\text {geb }} 121412$ | GRB 12/14\|17 | 720 GRB 12/417 |
| $\square$ | B7L0101-BS1 | 5 | 2 | 0 | 3 |  |  | $(0.250) 4$ | T |  |  |
| $\square$ | B7L0101-BSD1 | 5 | 2 | 0 | 3 | $\downarrow$ | $\downarrow$ | (0.250) |  |  |  |
| $\square$ | 1701840-04 | 6 | 2 | 0 | 3 | 147.98 | 26.88 | 0.12110 |  |  |  |
| $\square$ | 1701840-05 | 6 | 2 | 0 | 3 | 141.97 | 26.85 | 0.11512 |  |  |  |
| $\pm$ | ${ }^{1701851-0}(A)$ | 4 | 2 | 0 | 3 | 25499251.00 | 27.75 | 0.22334 |  |  |  |
| $\square$ | 1701851-02 | 4 | 2 | $\bigcirc$ | 3 | 279.04 | 27.73 | 0.25131 |  |  |  |
| $\square$ | 1701851-03 | 4 | 2 | 0 | 3 | 291.50 | 27.70 | 0.26380 |  |  |  |
| $\square$ | 1701851-04 | 4 | 2 | 0 | 3 | 284.07 | 27.70 | 0.25637 |  |  |  |
| 区 | 1701851-05 | 4 | 2 | 0 | 3 | 260.55 | 27.70 | 0.23285 |  |  |  |
| $\square$ | 1701851-06 | 4 | 2 | 0 | 3 | 289.33 | 27.74 | 0.26159 |  |  |  |
| $\square$ | 1701851-07 | 4 | 2 | 0 | 3 | 281.31 | 27.71 | 0.25360 - |  |  |  |
| $\square$ | 1701851-08 | 4 | 2 | 0 | 3 | 288.22 | 27.81 | 0.26041 |  |  |  |
| $\square$ | 1701851-09 | 4 | 2 | 0 | 3 | 286.71 | 27.73 | 0.25898 | $\checkmark$ | $\downarrow$ | $\downarrow$ |



# PREPARATION BENCH SHEET 

Prepared using: LCMS - SPE Extraction-LCMS

|  |  | Datelnials: H13 $2 / 14177$ |  |  |  | Balanceld: HRMJ-8 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cen | $\begin{gathered} \text { VIITAA } \\ \text { Sample ID } \end{gathered}$ | ${ }_{\text {Before }}^{\text {pre }}$ | (ift | $\begin{array}{\|c} \text { Chlorine } \\ \text { (Cl) } \end{array}$ | $\begin{array}{\|l\|l} \text { Drops } \\ \text { Hact } \\ \hline \text { detcos } \end{array}$ | $\begin{gathered} \text { Botlie }+ \\ \text { Sample } \\ (\mathrm{g}) \end{gathered}$ | $\begin{aligned} & \text { Botile } \\ & \text { only } \\ & \text { nol } \end{aligned}$ | $\begin{aligned} & \text { Sample } \\ & \text { Ant } \\ & \text { (L) } \end{aligned}$ | $\begin{gathered} \text { ISNS } \\ \text { CEMTMTT } \\ \text { DATE } \end{gathered}$ | SPE | $\begin{gathered} \substack{\text { RS } \\ \text { CHMWIT } \\ \text { DATE }} \end{gathered}$ |
| $\square$ | BZ70101-81K1 |  |  |  |  |  |  |  |  |  | $\longrightarrow$ |
| $\square$ | BZLO101-BSI |  |  |  |  | 1417 |  |  |  |  |  |
| $\square$ | B7LO101-BSDI |  |  |  |  |  |  |  |  |  |  |
| $\square$ | ${ }^{1701840-04}$ |  |  |  |  |  |  |  |  |  |  |
| $\square$ | +978440.05 |  |  |  |  |  |  |  |  |  |  |
| $\square$ | 1701840-10 | 6 | 2 | 0 | 3 | 135.05 | 26.85 | 0.10420 | 14 Gebs 12141 | 6831214117 | He gee rimilis |
| $\square$ | 1701851-01 |  |  |  |  |  |  |  |  |  |  |
| $\square$ | 1701851-02 |  |  |  |  |  |  |  | , |  |  |
| $\square$ | ${ }^{1701851-03}$ |  |  |  |  |  |  | - | - |  |  |
| $\square$ | 1701851-04 |  |  |  |  |  |  |  |  |  |  |
| $\square$ | 1701851-05 |  |  |  |  |  |  |  |  |  |  |
| $\square$ | 1701851-06 |  |  | - |  | $12 / 1411$ | 716 |  |  |  |  |
| $\square$ | 1701851-07 |  |  |  |  |  |  |  |  |  |  |
| $\square$ | ${ }^{1701851-083}$ |  |  |  |  |  |  |  |  |  |  |
| $\square$ | +01851-09 |  |  |  |  |  |  |  |  |  |  |



Comments: Assume $1 \mathrm{~g}=1 \mathrm{~mL}$

| LabNumber | WetWeight (Initial) | \% Solids <br> (Extraction Solids) | DryWeight | Final | Extracted | Ext By | Spike | SpikeAmount | ClientMatrix | Analysis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1701840-04 | $0.1211 \sim$ | NA | $N A$ | 1000 | 14-Dec-17 14:00 | GRB |  |  | Aqueous | 537M PFAS DOD (LOQ as |
| 1701840-05 | 0.11512 , | $T$ | T | 1000 | 14-Dec-17 14:00 | GRB |  |  | Aqueous | 537M PFAS DOD (LOQ as |
| 1701840-10 | $0.1082 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Aqueous | 537M PFAS DOD (LOQ as |
| 1701851-01 | $0.22334 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-02 | $0.25131 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-03 | $0.2638 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-04 | $0.25637 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-05 | $0.23285 \sim$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-06 | 0.26159 |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-07 | $0.2536 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-08 | $0.26041 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| 1701851-09 | 0.25898 \} |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  | Groundwater | 537M PFAS DOD (LOQ as |
| B7L0101-BLK1 | $0.25 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB |  |  |  | QC |
| B7L0101-BS1 | $0.25 \checkmark$ |  |  | 1000 | 14-Dec-17 14:00 | GRB | 17 J 1820 | /10 |  | QC |
| B7L0101-BSD1 | 0.25 | $\checkmark$ | $\checkmark$ | 1000 | 14-Dec-17 14:00 | GRB | 17 J 182 | - $10 \sim$ |  | QC |

$K C 12116117$

Dataset: U:IQ4.PROIresults180110M31180110M3_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:IQ4.PROMMethDBIPFAS_FULL_80C_010818.mdb 09 Jan 2018 10:39:49

Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30
Compound name: PFBA
Correlation coefficient: $r=0.999526, r^{\wedge} 2=0.999051$
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

|  | \# Name | Type | Std. Conc | RT | Area | IS Ârea | Response | Conc\% |  |  | CoD |  | xcle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , ${ }^{\text {a }}$ | 1 180110M3_2 | Standard | 0.250 | 1.34 | 158.015 | 5445.118 | 0.363 | 0.3 | 11.8 | NO | 0.999 | NO | MM |
| - | 2 180110M3_3 | Standard | 0.500 | 1.34 | 298.382 | 5531.277 | 0.674 | 0.5 | -1.8 | NO | 0.999 | NO | MM |
| 3 3.4.4. | 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 \% | $6180110 \mathrm{M3} 37$ | Standard | 10.000 | 1.34 | 8762.965 | 7475.106 | 14.654 | 10.0 | -0.1 | NO | 0.999 | NO | bb |
| 7 - ${ }^{\text {a }}$ | 7 180110M3_8 | Standard | 50.000 | 1.34 | 47496.918 | 8574.918 | 69.238 | 47.1 | -5.8 | NO | 0.999 | NO | bb |
| 2me | $8180110 \mathrm{M3}$ _9 | Standard | 100.000 | 1.34 | 92845.438 | 8087.149 | 143.508 | 97.5 | -2.5 | NO | 0.999 | NO | bb |
| $9-4$ | 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: PFPeA

Correlation coefficient: $\mathrm{r}=0.999692, \mathrm{r}^{\wedge} 2=0.999384$
Calibration curve: $1.26321^{*} \mathrm{x}+-0.0617763$
Response type: Internal Std (Ref 32) , Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: $1 / x$, Axis trans: None

| 434.4 | \# Name | T Type | Std. Conc | RT | Area | IS Area | Response | Conc. | dev |  | Com | D | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 1 180110M3_2 | Standard | 0.250 | 2.31 | 137.895 | 6191.314 | 0.278 | 0.3 | 7.7 | NO | 0.999 | NO | bb |
| 4ex | 2 180110M3_3 | Standard | 0.500 | 2.32 | 294.900 | 6388.503 | 0.577 | 0.5 | 1.1 | NO | 0.999 | NO | bb |
| 2. ${ }^{2}$. | 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 |
| 4er | 5 180110M3_6 | Standard | 5.000 | 2.31 | 5529.848 | 10067.521 | 6.866 | 5.5 | 9.7 | NO | 0.999 | NO | bb |
| 6 \% | $6180110 \mathrm{M3}$ _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 |
| - | $8180110 \mathrm{M3}$ _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:IQ4.PROIresults180110M31180110M3_crv.qld

Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time
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## Compound name: PFBS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999640$
Calibration curve: 0.00081362 * $x^{\wedge} 2+2.12043$ * $x+0.00999409$
Response type: Internal Std ( Ref 33 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

|  | 1180110 | Standard | 0.250 | 2.59 | 40.093 | 843.391 | 0.594 | 3 | 102 | NO | , 00 | NO | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $2+4$ | 2 180110M | Standard | 0.500 | 2.60 | 65.625 | 875.797 | 0.937 | 0.4 | -12.6 | NO | 1.000 | NO | MM |
| 3 - ${ }^{\text {a }}$ | 3 180110M3 4 | Standard | 1.000 | 2.60 | 157.137 | 894.616 | 2.196 | 1.0 | 3.0 | NO | 1.000 | NO | bb |
| W | 4 180110M3_5 | Standard | 2.000 | 2.60 | 324.442 | 1011.215 | 4.011 | 1.9 | -5.7 | NO | 1.000 | NO | bb |
|  | 5 180110M3_6 | Standard | 5.000 | 2.59 | 1100.859 | 1232.651 | 11.164 | 5.2 | 5.0 | NO | 1.000 | NO | bb |
| 6. | $6180110 \mathrm{M3} 37$ | 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 |
| 4 | 8 180110M3_9 | Standard | 100.000 | 2.59 | 21287.502 | 1183.646 | 224.809 | 102.0 | 2.0 | NO | 1.000 | NO | bb |
| $9 \times 1+3$ | 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: PFHxA

Correlation coefficient: $\mathrm{r}=0.999048, \mathrm{r}^{\wedge} 2=0.998098$
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 | 15 Area | Response | Conc. | \%Dev | nc. | ${ }^{\text {CoD }}$ | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180110M3_2 | Standard | 0.250 | 3.09 | 216.357 | 2081.847 | 0.520 | 0.3 | 12.3 | NO | 0.998 | NO | bb |
|  | 2 180110M3_3 | Standard | 0.500 | 3.09 | 311.359 | 2064.240 | 0.754 | 0.4 | -19.6 | NO | 0.998 | NO | bb |
|  | 3 180110M3_4 | Standard | 1.000 | 3.09 | 809.112 | 2293.726 | 1.764 | 0.9 | -7.7 | NO | 0.998 | NO | bb |
| - | 4 180110M3_5 | Standard | 2.000 | 3.09 | 1863.764 | 2353.448 | 3.960 | 2.1 | 2.8 | NO | 0.998 | NO | bb |
|  | 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, ${ }^{4}$ | 6 180110M3_7 | Standard | 10.000 | 3.09 | 12226.492 | 2750.103 | 22.229 | 11.5 | 14.8 | No | 0.998 | NO | bb |
| 5atur | 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 |
| $9-3$ | 9 180110M3_10 | Standard | 250.000 | 3.09 | 379602.906 | 4029.222 | 471.062 | 243.0 | -2.8 | NO | 0.998 | NO | bb |

Dataset:
U:IQ4.PROIresults\180110M31180110M3_crv.qld
Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time
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## Compound name: PFHPA

Correlation coefficient: $\mathrm{r}=0.999839, \mathrm{r}^{\wedge} 2=0.999677$
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 |  |  | D F | du |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 1-3/85 | 1 180110M3_2 | Standard | 0.250 | 3.71 | 153.400 | 5439.776 | 0.352 | 0.3 | 14.4 | NO | 1.000 | NO | bb |
| 2 2twh | 2 180110M3_3 | Standard | 0.500 | 3.71 | 280.672 | 5317.372 | 0.660 | 0.5 | -5.7 | NO | 1.000 | NO | bb |
| What ${ }^{\text {a }}$ | 3 180110M3_4 | Standard | 1.000 | 3.71 | 717.935 | 6029.103 | 1.488 | 1.0 | -2.7 | NO | 1.000 | NO | bb |
| - | 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 ${ }^{\text {cta }}$ | 6 180110M3_7 | Standard | 10.000 | 3.71 | 9751.433 | 7383.596 | 16.509 | 10.1 | 0.5 | NO | 1.000 | NO | bb |
| 7 T 3 ${ }^{\text {a }}$ | 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 ${ }^{\text {a }}$, | 8 180110M3_9 | Standard | 100.000 | 3.70 | 97725.922 | 7501.529 | 162.843 | 98.5 | -1.5 | NO | 1.000 | NO | bb |
| $9 \times 3$ | 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: $r=0.999101, r^{\wedge} 2=0.998203$
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


Last Altered:
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Thursday, January 11, 2018 14:26:56 Pacific Standard Time

## Compound name: 6:2 FTS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.995180$
Calibration curve: 0.0125368 * $x^{\wedge} 2+2.94435$ * $x+-0.110501$
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 |  | CoD | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 180110M3_3 | Standard | 0.500 | 4.18 | 82.592 | 587.859 | 1.756 | 0.6 | 26.5 | NO | 0.995 | NO | bb |
| - | 3 180110M3_4 | Standard | 1.000 | 4.17 | 113.301 | 721.191 | 1.964 | 0.7 | -29.8 | NO | 0.995 | NO | bb |
| + | 4 180110M3_5 | Standard | 2.000 | 4.17 | 318.644 | 841.432 | 4.734 | 1.6 | -18.3 | NO | 0.995 | NO | bb |
|  | 5 180110M3_6 | Standard | 5.000 | 4.17 | 1331.516 | 928.808 | 17.920 | 6.0 | 19.4 | NO | 0.995 | NO | bb |
|  | $6180110 \mathrm{M3}$ _7 | Standard | 10.000 | 4.17 | 1956.682 | 837.404 | 29.208 | 9.6 | -4.3 | NO | 0.995 | NO | bb |
| - 4 | 7180110 M 3 _8 | Standard | 50.000 | 4.17 | 12586.734 | 881.507 | 178.483 | 50.0 | 0.0 | NO | 0.995 | NO | bb |
|  | 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: $\mathrm{R}^{\wedge} 2=0.998464$
Calibration curve: $-9.7055 \mathrm{e}-005^{*} x^{\wedge} 2+1.26022$ * $x+0.185633$
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 | nc. 7 | COD | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 1 180110M3_2 | Standard | 0.250 | 4.23 | 298.790 | 6843.800 | 0.546 | 0.3 | 14.3 | NO | 0.998 | NO | MM |
| 2 2-4 | 2 180110M3_3 | Standard | 0.500 | 4.23 | 519.394 | 7076.908 | 0.917 | 0.6 | 16.1 | NO | 0.998 | NO | MM |
| - | 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 | 4 180110M3_5 | Standard | 2.000 | 4.23 | 1848.242 | 8455.973 | 2.732 | 2.0 | 1.1 | NO | 0.998 | NO | db |
| 5 x | 5 180110M3_6 | Standard | 5.000 | 4.22 | 5524.569 | 11446.934 | 6.033 | 4.6 | -7.2 | NO | 0.998 | NO | bb |
| 6 * ${ }^{2}$ | 6 180110M3_7 | Standard | 10.000 | 4.23 | 10129.542 | 10524.176 | 12.031 | 9.4 | -5.9 | NO | 0.998 | NO | bb |
| $7{ }^{4}+$ | 7 180110M3_8 | Standard | 50.000 | 4.22 | 52634.219 | 9660.232 | 68.107 | 54.1 | 8.2 | NO | 0.998 | NO | bb |
| 8 , 4 | 8 180110M3_9 | Standard | 100.000 | 4.22 | 96777.461 | 10039.607 | 120.495 | 96.2 | -3.8 | NO | 0.998 | NO | bb |
|  | 9 180110M3_10 | Standard | 250.000 | 4.22 | 349181.594 | 14076.219 | 310.081 | 250.7 | 0.3 | NO | 0.998 | NO | bb |

## Dataset:

U:IQ4.PROIresults 1 180110M31180110M3_crv.qld
Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time
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## Compound name: PFHpS

Coefficient of Determination: R^2 $=0.999403$
Calibration curve: $0.00123665{ }^{*} x^{\wedge} 2+0.283611$ * $x+-0.0187761$
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 | ${ }^{\text {Std }}$ Sonc | RT | Area | IS Area | Response | Conc. | De |  | CoD | D F | exclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , wemm | 1 180110M3_2 | Standard | 0.250 | 4.34 | 40.899 | 6843.800 | 0.075 | 0.3 | 31.6 | NO | 0.999 | NO | MMX |
|  | $2180110 \mathrm{M3}$ _3 | Standard | 0.500 | 4.33 | 68.354 | 7076.908 | 0.121 | 0.5 | -1.8 | NO | 0.999 | NO | bb |
|  | 3 180110M3_4 | Standard | 1.000 | 4.33 | 197.523 | 9304.335 | 0.265 | 1.0 | -0.2 | NO | 0.999 | NO | bb |
| $4-7$ | $4180110 \mathrm{M3} 5$ | Standard | 2.000 | 4.33 | 365.727 | 8455.973 | 0.541 | 2.0 | -2.2 | NO | 0.999 | NO | bb |
| 4 | 5 180110M3_6 | Standard | 5.000 | 4.33 | 1415.746 | 11446.934 | 1.546 | 5.4 | 7.8 | NO | 0.999 | NO | bb |
| 6 . | $6180110 \mathrm{M3}$ _7 | Standard | 10.000 | 4.34 | 2382.782 | 10524.176 | 2.830 | 9.6 | -3.6 | NO | 0.999 | NO | bb |
| 4 | 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: $\mathrm{R}^{\wedge} 2=0.998092$
Calibration curve: 0.000693223 * $x^{\wedge} 2+1.40868$ * $x+0.0082777$
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

|  | \# Name |  | Std. Conc | RT | Area | IS Area | Response | Conc. |  |  | CoD | CoDF | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ti. | 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 . ${ }^{\text {a }}$ | 3 180110M3_4 | Standard | 1.000 | 4.66 | 803.702 | 7113.500 | 1.412 | 1.0 | -0.4 | NO | 0.998 | NO | bb |
|  | 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 | $6180110 \mathrm{M3}$ _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 - | $9180110 \mathrm{M3}=10$ | 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: $r=0.999329, r \wedge 2=0.998658$
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 |  | Cob | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 180110M3_3 | Standard | 0.500 | 4.72 | 68.373 | 1375.187 | 0.621 | 0.4 | -10.3 | NO | 0.999 | NO | bb |
| + | 3 180110M3_4 | Standard | 1.000 | 4.71 | 201.535 | 1766.893 | 1.426 | 1.1 | 6.4 | NO | 0.999 | NO | bb |
| $4-2$ | 4 180110M3_5 | Standard | 2.000 | 4.72 | 360.366 | 1897.929 | 2.373 | 1.8 | -10.6 | NO | 0.999 | NO | bb |
| + | 5 180110M3_6 | Standard | 5.000 | 4.72 | 1269.298 | 2478.382 | 6.402 | 4.9 | -2.6 | NO | 0.999 | NO | bb |
| 4 | $6180110 \mathrm{M3}$ _7 | Standard | 10.000 | 4.72 | 2319.396 | 2100.719 | 13.801 | 10.5 | 5.3 | NO | 0.999 | NO | bb |
|  | 7 180110M3_8 | Standard | 50.000 | 4.72 | 12512.175 | 2311.924 | 67.650 | 51.7 | 3.4 | NO | 0.999 | NO | bb |
| \% | 8 180110M3_9 | Standard | 100.000 | 4.72 | 21843.365 | 2220.110 | 122.986 | 94.0 | -6.0 | NO | 0.999 | NO | bb |
| 95 | 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: $\mathrm{R}^{\wedge} 2=0.997444$
Calibration curve: $-3.62431 e-005^{*} x^{\wedge} 2+1.17583^{*} x+0.0311451$
Response type: Internal Std (Ref 41 ), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


Dataset:
U:IQ4.PROTresults\180110M31180110M3_crv.qld
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## Compound name: PFDA

Coefficient of Determination: $R^{\wedge 2}=0.999932$
Calibration curve: $0.00546964{ }^{*} x^{\wedge} 2+1.60165$ * $x+-0.235203$
Response type: Internal Std (Ref 42 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Compound name: 8:2 FTS

Coefficient of Determination: $R^{\wedge} 2=0.997732$
Calibration curve: $0.00123859^{*} x^{\wedge} 2+0.307368{ }^{*} x+-0.0309813$
Response type: Internal Std (Ref 42 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

|  | \# Name |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 7 * | 1 180110M3_2 | Standard | 0.250 | 5.01 | 6.878 | 6621.417 | 0.013 | 0.1 | -42.8 | NO | 0.998 | NO | MMX |
| $2{ }^{2}+{ }^{\text {a }}$ | 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 | $3180110 \mathrm{M3}$ _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 180110M3_6 | Standard | 5.000 | 5.00 | 1255.848 | 8990.281 | 1.746 | 5.7 | 13.1 | NO | 0.998 | NO | bb |
|  | $6180110 \mathrm{M3}$ _7 | Standard | 10.000 | 5.00 | 2087.793 | 8394.882 | 3.109 | 9.8 | -1.7 | NO | 0.998 | NO | bb |
| - | 7 180110M3_8 | Standard | 50.000 | 5.00 | 10583.119 | 7178.136 | 18.429 | 50.0 | -0.0 | NO | 0.998 | NO | bb |
| 8 为畐 | 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 | $b b X$ |

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## Compound name: N-MeFOSAA

Coefficient of Determination: $R^{\wedge 2}=0.991446$
Calibration curve: -0.00315911 * $x^{\wedge} 2+2.0555{ }^{*} x+-0.320574$
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 | F | cli |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 ktat | 1 180110M3_2 | Standard | 0.250 | 5.18 | 36.415 | 2584.018 | 0.176 | 0.2 | -3.3 | NO | 0.991 | NO | MM |
| Hxa | 2 180110M3_3 | Standard | 0.500 | 5.18 | 80.226 | 2279.408 | 0.440 | 0.4 | -26.0 | NO | 0.991 | NO | bb |
| - ${ }^{\text {a }}$ | 3 180110M3_4 | Standard | 1.000 | 5.18 | 378.250 | 2474.278 | 1.911 | 1.1 | 8.7 | NO | 0.991 | NO | bb |
| 4 . ${ }^{2}$ | 4 180110M3_5 | Standard | 2.000 | 5.19 | 712.568 | 3010.187 | 2.959 | 1.6 | -20.0 | NO | 0.991 | NO | bb |
| ${ }^{\text {T }}$, | 5 180110M3_6 | Standard | 5.000 | 5.18 | 2686.279 | 4004.625 | 8.385 | 4.3 | -14.7 | NO | 0.991 | NO | bb |
|  | 6 180110M3_7 | Standard | 10.000 | 5.18 | 4645.245 | 3453.088 | 16.816 | 8.4 | -15.5 | NO | 0.991 | NO | bb |
| $7{ }^{\text {d }}$ | 7 180110M3_8 | Standard | 50.000 | 5.18 | 27682.430 | 3302.028 | 104.793 | 55.9 | 11.9 | NO | 0.991 | NO | bb |
| - | $8180110 \mathrm{M3}$ _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: $\mathrm{R}^{\wedge} 2=0.999097$
Calibration curve: $-0.000915461^{*} x^{\wedge} 2+1.58258^{*} x+-0.401153$
Response type: Internal Std (Ref 45), Area * (IS Conc. I IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: $1 / x$, Axis trans: None

|  | \# Name | Type | Std. Conc | RT | 4. Area | IS Area | Response | Conc. | \%Dev |  |  | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. ${ }^{\text {a }}$ | 1 180110M3_2 | Standard | 0.250 | 5.33 | 66.359 | 3050.200 | 0.272 | 0.4 | 70.2 | NO | 0.999 | NO | bbX |
| 2 3 | 2 180110M3_3 | Standard | 0.500 | 5.34 | 73.558 | 3056.172 | 0.301 | 0.4 | -11.3 | NO | 0.999 | NO | bb |
| 3 , atat | 3 180110M3_4 | Standard | 1.000 | 5.33 | 220.973 | 3257.867 | 0.848 | 0.8 | -21.0 | NO | 0.999 | NO | bb |
| $4{ }^{4}$ - ${ }^{3}$ | 4 180110M3_5 | Standard | 2.000 | 5.34 | 631.177 | 3281.707 | 2.404 | 1.8 | -11.3 | NO | 0.999 | NO | bb |
| 5 - 4 - 4 | 5 180110M3_6 | Standard | 5.000 | 5.34 | 2480.533 | 4319.860 | 7.178 | 4.8 | -4.0 | NO | 0.999 | NO | bb |
| 60-5 | 6 180110M3_7 | Standard | 10.000 | 5.34 | 4016.860 | 3499.391 | 14.348 | 9.4 | -6.3 | NO | 0.999 | NO | bb |
| $7=4$ | 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 | 9 180110M3_10 | Standard | 250.000 | 5.33 | 130110.156 | 4818.760 | 337.509 | 249.5 | -0.2 | NO | 0.999 | NO | bb |

Dataset: U:IQ4.PRO|results1180110M31180110M3_crv.qld
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## Compound name: PFUdA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997858$
Calibration curve: $-0.000355567^{*} x^{\wedge} 2+1.33241^{*} x+-0.0949136$
Response type: Internal Std (Ref 46 ), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Compound name: PFDS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997344$
Calibration curve: $0.000962848{ }^{*} x^{\wedge} 2+0.363602$ * $x+-0.00209133$
Response type: Internal Std (Ref 46 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


# Dataset: <br> U:IQ4.PROIresults\180110M31180110M3_crv.qld 

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Printed: Thursday, January 11, 2018 14:26:31 Pacific Standard Time
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## Compound name: PFDoA

Coefficient of Determination: $R^{\wedge} 2=0.998683$
Calibration curve: $0.00180407{ }^{*} x^{\wedge} 2+2.09493^{*} x+0.150658$
Response type: Internal Std ( Ref 47), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| 4, | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | Dev |  | CoD | COD | excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 速 | 1 180110M3_2 | Standard | 0.250 | 5.64 | 187.793 | 4189.487 | 0.560 | 0.2 | -21.8 | NO | 0.999 | NO | MM |
| + | 2 180110M3_3 | Standard | 0.500 | 5.64 | 395.079 | 3969.021 | 1.244 | 0.5 | 4.4 | NO | 0.999 | NO | bd |
| - ${ }^{\text {a }}$ | 3 180110M3_4 | Standard | 1.000 | 5.64 | 711.553 | 4869.713 | 1.826 | 0.8 | -20.1 | NO | 0.999 | NO | bd |
| +xt | 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 180110M3_7 | Standard | 10.000 | 5.64 | 10897.177 | 5791.910 | 23.518 | 11.0 | 10.5 | NO | 0.999 | NO | bb |
| + 4 | 7 180110M3_8 | Standard | 50.000 | 5.63 | 62116.109 | 7164.268 | 108.378 | 49.5 | -0.9 | NO | 0.999 | NO | bb |
| Wn | 8 180110M3_9 | Standard | 100.000 | 5.64 | 105146.766 | 5943.687 | 221.131 | 97.3 | -2.7 | NO | 0.999 | NO | bb |
| 9 9-4 | 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: $r=0.999537, \mathrm{r}^{\wedge} 2=0.999075$
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


Dataset:
U:IQ4.PROIresults\180110M31180110M3_crv.qld
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## Compound name: PFTrDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999460$
Calibration curve: 0.000122781 * $x^{\wedge} 2+2.39065$ * $x+0.000840038$
Response type: Internal Std (Ref 47 ), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

|  |  | Type | Std. Conc | RT | \%... Area | IS Area | Response | Conc. | \%Dev | Conc. Fla | CoD |  | xd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180110M3_2 | Standard | 0.250 | 5.88 | 174.970 | 4189.487 | 0.522 | 0.2 | -12.8 | NO | 0.999 | NO | bb |
| + | 2 180110M3_3 | Standard | 0.500 | 5.88 | 376.310 | 3969.021 | 1.185 | 0.5 | -0.9 | NO | 0.999 | NO | bb |
| 3 Cm | 3 180110M3_4 | Standard | 1.000 | 5.88 | 950.586 | 4869.713 | 2.440 | 1.0 | 2.0 | NO | 0.999 | NO | bb |
|  | 4 180110M3_5 | Standard | 2.000 | 5.89 | 1891.809 | 4575.956 | 5.168 | 2.2 | 8.1 | NO | 0.999 | NO | bb |
|  | $5180110 \mathrm{M3}$ _6 | Standard | 5.000 | 5.88 | 5659.594 | 6385.208 | 11.080 | 4.6 | -7.3 | NO | 0.999 | NO | bb |
|  | 6 180110M3_7 | Standard | 10.000 | 5.89 | 12450.600 | 5791.910 | 26.871 | 11.2 | 12.3 | NO | 0.999 | NO | bb |
|  | 7 180110M3_8 | Standard | 50.000 | 5.88 | 68696.688 | 7164.268 | 119.860 | 50.0 | 0.0 | NO | 0.999 | NO | bb |
|  | 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: $\mathrm{R}^{\wedge} 2=0.999533$
Calibration curve: $0.003490622^{*} x^{\wedge} 2+2.93229^{*} x+-0.154941$
Response type: Internal Std (Ref 49), Area* (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


| Dataset: | U:IQ4.PRO\results\180110M3\180110M3_crv.qld |
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## Compound name: N -EtFOSA

Coefficient of Determination: $R^{\wedge} 2=0.999897$
Calibration curve: $-3.00904 e-005$ * $x^{\wedge} 2+1.02444$ * $x+-0.199244$
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 | nc. | COD | CoD | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180110M3_2 | Standard | 1.250 | 6.10 | 131.383 | 16238.895 | 1.214 | 1.4 | 10.3 | NO | 1.000 | NO | bb |
| 2 \%en | 2 180110M3_3 | Standard | 2.500 | 6.11 | 254.736 | 15620.249 | 2.446 | 2.6 | 3.3 | NO | 1.000 | NO | bb |
| $3 \times 4$ | 3 180110M3_4 | Standard | 5.000 | 6.10 | 520.024 | 17774.992 | 4.388 | 4.5 | -10.4 | NO | 1.000 | NO | bb |
|  | 4 180110M3_5 | Standard | 10.000 | 6.10 | 1156.534 | 18942.303 | 9.158 | 9.1 | -8.6 | NO | 1.000 | NO | bb |
|  | 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 180110M3_8 | Standard | 250.000 | 6.10 | 37406.688 | 22103.201 | 253.855 | 249.8 | -0.1 | NO | 1.000 | NO | bb |
|  | 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: $R^{\wedge} 2=0.997686$
Calibration curve: $-0.00114258{ }^{*} x^{\wedge} 2+0.984182$ * $x+0.0683094$
Response type: Internal Std (Ref 51 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Dataset:

U:IQ4.PRO\results 1 180110M31180110M3_crv.qld
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## Compound name: PFODA

Coefficient of Determination: R^2 $=0.997999$
Calibration curve: $-0.00347318{ }^{*} x^{\wedge} 2+1.33796 * x+-0.219409$
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 | D | clu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |
| -tien | 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 | 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 180110M3_7 | Standard | 10.000 | 6.66 | 5287.183 | 2045.703 | 12.923 | 10.1 | 0.9 | NO | 0.998 | NO | bb |
|  | 7 180110M3_8 | Standard | 50.000 | 6.66 | 26551.906 | 2213.677 | 59.972 | 52.0 | 4.0 | NO | 0.998 | NO | bb |
| 8 - ${ }^{\text {c }}$ | 8 180110M3_9 | Standard | 100.000 | 6.66 | 48357.449 | 2470.003 | 97.889 | 98.5 | -1.5 | NO | 0.998 | NO | bb |
| 9 a | 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: $\mathrm{r}=0.998982, \mathrm{r}^{\wedge} 2=0.997965$
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


## Dataset:

U:IQ4.PROTresults 1180110 M 31180110 M 3 _crv.qld
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## Compound name: N-EtFOSE

Correlation coefficient: $\mathrm{r}=0.999540, \mathrm{r}^{\wedge} 2=0.999080$
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


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 | Cone. | Dev |  | F | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180110M3_2 | Standard | 12.500 | 1.33 | 5445.118 | 7508.845 | 9.065 | 11.9 | -5.0 | NO | NO | bb |
| $2{ }^{2}+{ }^{2}$ | $2180110 \mathrm{M3}$ _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 3 | 4 180110M3_5 | Standard | 12.500 | 1.34 | 6682.359 | 8507.537 | 9.818 | 12.9 | 2.9 | NO | NO | bb |
| 5 边 | $5180110 \mathrm{M3}$ _6 | Standard | 12.500 | 1.33 | 8645.433 | 11925.11¢ | 9.062 | 11.9 | -5.0 | NO | NO | bb |
| 6. 4 - | 6 180110M3_7 | Standard | 12.500 | 1.34 | 7475.106 | 10276.120 | 9.093 | 11.9 | -4.7 | NO | NO | bb |
| 7 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 - ${ }^{2}+4$ | 9 180110M3_10 | Standard | 12.500 | 1.34 | 10724.149 | 14467.951 | 9.265 | 12.1 | -2.9 | NO | NO | bb |


| Dataset: | U:IQ4.PRO\results\180110M3\180110M3_crv.qld |
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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


## 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 | T. Std. Conc | RT | Tre Area | IS Area | Response | Conc. | \%Dev | c. | D | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1-4{ }^{2}$ | 1 180110M3_2 | Standard | 12.500 | 2.59 | 843.391 | 8819.409 | 1.195 | 12.5 | 0.3 | NO | NO | bb |
| - 7a 4 | 2 180110M3_3 | Standard | 12.500 | 2.60 | 875.797 | 8657.168 | 1.265 | 13.3 | 6.1 | NO | NO | bb |
| + 4 | 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 180110м3_6 | Standard | 12.500 | 2.59 | 1232.651 | 14579.612 | 1.057 | 11.1 | -11.3 | NO | NO | bb |
|  | $6180110 \mathrm{M3}$ _7 | Standard | 12.500 | 2.60 | 1207.154 | 12281.571 | 1.229 | 12.9 | 3.1 | NO | NO | bb |
| + + 为 ${ }^{\text {a }}$ | 7 180110M3_8 | Standard | 12.500 | 2.59 | 1285.018 | 12975.809 | 1.238 | 13.0 | 3.9 | NO | NO | bb |
| 8 - - -xa | 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 |

Dataset:
U:IQ4.PRO|results\180110M31980110M3_crv.qld
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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

|  |  | Type | Conc | RT | Area | IS Area | Response | Conc. | \%Dev | A. | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1 180110M3_2 | Standard | 5.000 | 3.08 | 2081.847 | 8819.409 | 2.951 | 4.9 | -1.1 | NO | NO | bb |
|  | 2 180110M3_3 | Standard | 5.000 | 3.09 | 2064.240 | 8657.168 | 2.981 | 5.0 | -0.1 | NO | NO | bb |
|  | 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 180110M3_7 | Standard | 5.000 | 3.09 | 2750.103 | 12281.571 | 2.799 | 4.7 | -6.2 | NO | NO | bb |
|  | 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

| 4 3 | Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | dev | nc. | , | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11.testaty | 1 180110M3_2 | Standard | 12.500 | 3.70 | 5439.776 | 8819.409 | 7.710 | 12.8 | 2.1 | NO | NO | bb |
| 2 戈 | 2 180110M3_3 | Standard | 12.500 | 3.71 | 5317.372 | 8657.168 | 7.678 | 12.7 | 1.6 | NO | NO | bb |
| 3. 4- | 3 180110M3_4 | Standard | 12.500 | 3.70 | 6029.103 | 10153.727 | 7.422 | 12.3 | -1.7 | NO | NO | bb |
| 43 | 4 180110M3_5 | Standard | 12.500 | 3.71 | 6373.487 | 10362.211 | 7.688 | 12.7 | 1.8 | NO | NO | bb |
|  | 5 180110M3_6 | Standard | 12.500 | 3.70 | 8559.692 | 14579.612 | 7.339 | 12.1 | -2.8 | NO | NO | bb |
| 6 - $\mathrm{c}^{\text {c }}$ | $6180110 \mathrm{M3}$ _7 | Standard | 12.500 | 3.71 | 7383.596 | 12281.571 | 7.515 | 12.4 | -0.5 | NO | NO | bb |
| $7{ }^{4} 58$ | 7 180110M3_8 | Standard | 12.500 | 3.71 | 7430.805 | 12975.809 | 7.158 | 11.8 | -5.2 | NO | NO | bb |
| 緒 | 8 180110M3_9 | Standard | 12.500 | 3.70 | 7501.529 | 11578.389 | 8.099 | 13.4 | 7.2 | NO | NO | bb |
| $\theta=$ | 9 180110M3_10 | Standard | 12.500 | 3.71 | 9581.552 | 16242.380 | 7.374 | 12.2 | -2.4 | NO | NO | bb |

Dataset:
U:IQ4.PROIresults|180110M3|180110M3_crv.qld
Last Altered
Printed:
Thursday, January 11, 2018 14:26:31 Pacific Standard Time

Compound name: 1802-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

| Wwime | \# Name | - Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Ac. Flag ${ }^{\text {c }}$ CoD | CoD Flag $x=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , | 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 - 6 | 3 180110M3_4 | Standard | 12.500 | 3.85 | 721.191 | 2588.349 | 3.483 | 11.9 | -5.0 | NO | NO | MM |
|  | $4180110 \mathrm{M3} 5$ | Standard | 12.500 | 3.85 | 841.432 | 2638.712 | 3.986 | 13.6 | 8.8 | NO | NO | bb |
|  | 5 180110M3_6 | Standard | 12.500 | 3.86 | 928.808 | 3243.043 | 3.580 | 12.2 | -2.3 | NO | NO | bb |
| $\cdots$ | $6180110 \mathrm{M3} 37$ | Standard | 12.500 | 3.86 | 837.404 | 2945.932 | 3.553 | 12.1 | -3.0 | NO | NO | bb |
| - | $7180110 \mathrm{M3}$ _8 | Standard | 12.500 | 3.85 | 881.507 | 3128.825 | 3.522 | 12.0 | -3.9 | NO | NO | bb |
| 8 - ${ }^{2}$ | 8 180110M3_9 | Standard | 12.500 | 3.85 | 947.682 | 3222.897 | 3.676 | 12.5 | 0.3 | NO | NO | bb |
| 9 9-4.ay | 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: FTS
Response Factor: 0.215203

## Sp. 37

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


Dataset: U:IQ4.PROIresults|180110M31180110M3_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

## 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 Cow | CoD F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 -maty | 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 actay | 3 180110M3_4 | Standard | 12.500 | 4.22 | 9304.335 | 9839.251 | 11.820 | 12.9 | 3.3 | NO | NO | bb |
| 4-x | 4 180110M3_5 | Standard | 12.500 | 4.23 | 8455.973 | 9158.829 | 11.541 | 12.6 | 0.8 | NO | NO | bb |
|  | 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 - ${ }^{\text {a }}$ - ${ }^{\text {a }}$ | 8 180110M3_9 | Standard | 12.500 | 4.23 | 10039.607 | 9690.272 | 12.951 | 14.1 | 13.1 | NO | NO | bb |
| $9+5$ | 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


| Dataset: | U:IQ4.PROIresults1180110M31180110M3_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 |

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 | c. Flag | COD CODF | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.4 | 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 180110M3_4 | Standard | 12.500 | 4.72 | 1766.893 | 8730.687 | 2.530 | 11.3 | -9.2 | NO | NO | bb |
| $4{ }^{4} 4$ | 4 180110M3_5 | Standard | 12.500 | 4.72 | 1897.929 | 8502.860 | 2.790 | 12.5 | 0.1 | NO | NO | bb |
|  | 5180110 M 3 _6 | Standard | 12.500 | 4.72 | 2478.382 | 9392.645 | 3.298 | 14.8 | 18.4 | NO | NO | bb |
| 6. ${ }^{\text {a }}$ + | $6180110 \mathrm{M3}$ _7 | Standard | 12.500 | 4.72 | 2100.719 | 10144.617 | 2.588 | 11.6 | -7.1 | NO | NO | bb |
|  | 7 180110M3_8 | Standard | 12.500 | 4.72 | 2311.924 | 10475.976 | 2.759 | 12.4 | -1.0 | NO | NO | bb |
| 8 and | 8 180110M3_9 | Standard | 12.500 | 4.72 | 2220.110 | 10176.034 | 2.727 | 12.2 | -2.1 | NO | NO | bb |
| 9.40 | 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

| -4. | \# Name | Type | Std. Conc | RT | Area | 15 Área | Response Conc \%Dev Conc. Flag CoD CoD Flag x eexcluded |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| 3.4 | 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 . ${ }^{\text {a }}$ | 5 180110M3_6 | Standard | 12.500 | 4.74 | 3237.610 | 3714.762 | 10.894 | 12.5 | -0.4 | NO | NO | bb |
| 6 . tat | 6 180110M3_7 | Standard | 12.500 | 4.74 | 2589.350 | 2811.424 | 11.513 | 13.2 | 5.3 | NO | NO | bb |
| 7 - ${ }^{\text {a }}$ | 7 180110M3_8 | Standard | 12.500 | 4.74 | 2649.839 | 3528.814 | 9.386 | 10.7 | -14.1 | NO | NO | bb |
| 8 教 | 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 |

Thursday, January 11, 2018 14:26:31 Pacific Standard Time
Printed: Thursday, January 11, 2018 14:26:56 Pacific Standard Time

## 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 | nc. | CoD | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * | 1 180110M3_2 | Standard | 12.500 | 5.03 | 6621.417 | 6709.350 | 12.336 | 11.2 | -10.7 | NO | NO | bb |
|  | 2 180110M3_3 | Standard | 12.500 | 5.04 | 7011.031 | 6275.866 | 13.964 | 12.6 | 1.1 | NO | NO | bb |
| - ${ }^{\text {a }}$ | 3 180110M3_4 | Standard | 12.500 | 5.03 | 7865.675 | 5735.000 | 17.144 | 15.5 | 24.1 | NO | NO | bb |
| $0{ }^{4}+$ | 4 180110M3_5 | Standard | 12.500 | 5.03 | 7909.186 | 7379.163 | 13.398 | 12.1 | -3.0 | NO | NO | bb |
|  | 5 180110M3_6 | Standard | 12.500 | 5.03 | 8990.281 | 8404.810 | 13.371 | 12.1 | -3.2 | NO | NO | bb |
| , $-3 \times$ | 6 180110M3_7 | Standard | 12.500 | 5.03 | 8394.882 | 6873.380 | 15.267 | 13.8 | 10.5 | NO | NO | bb |
| - | 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 180110M3_10 | Standard | 12.500 | 5.03 | 11784.516 | 9778.104 | 15.065 | 13.6 | 9.0 | NO | NO | bb |

Compound name: 13C2-8:2:FTS Not used
RRF SD: 0.0423355 , Relative SQ: 41.9722
Response type: Internal Std (Ref 56 ), Area * (IS Conc. / IS Area)
Curve type: RF


Last Altered:
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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


## 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


Dataset:
U:IQ4.PROIresults\180110M31180110M3 crv.qld
Last Altered: Thursday, January 11, 2018 14:26:31 Pacific Standard Time
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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


## 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 | - Ta Std. Conc | RT | Area | IS Area | onse |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 .ax | 1 180110M3_2 | Standard | 12.500 | 5.63 | 4189.487 | 7146.186 | 7.328 | 12.2 | -2.2 | NO | NO | bb |
| 2. 2 | 2 180110M3_3 | Standard | 12.500 | 5.64 | 3969.021 | 6976.103 | 7.112 | 11.9 | -5.0 | NO | NO | bb |
| 3 3 | 3 180110M3_4 | Standard | 12.500 | 5.63 | 4869.713 | 8730.687 | 6.972 | 11.6 | -6.9 | NO | NO | bb |
| 4 为 | 4 180110M3_5 | Standard | 12.500 | 5.64 | 4575.956 | 8502.860 | 6.727 | 11.2 | -10.2 | NO | NO | bb |
| 5 y ${ }^{\text {a }}$ | 5 180110M3_6 | Standard | 12.500 | 5.63 | 6385.208 | 9392.645 | 8.498 | 14.2 | 13.5 | NO | NO | bb |
|  | 6 180110M3_7 | Standard | 12.500 | 5.64 | 5791.910 | 10144.617 | 7.137 | 11.9 | -4.7 | NO | NO | bb |
| $7{ }^{7}$ - ${ }^{\text {a }}$ | 7 180110M3_8 | Standard | 12.500 | 5.63 | 7164.268 | 10475.976 | 8.548 | 14.3 | 14.1 | NO | NO | bb |
|  | 8 180110M3_9 | Standard | 12.500 | 5.63 | 5943.687 | 10176.034 | 7.301 | 12.2 | -2.5 | NO | NO | bb |
| $9{ }^{9}$ | 9 180110M3_10 | Standard | 12.500 | 5.64 | 7304.709 | 11733.247 | 7.782 | 13.0 | 3.9 | NO | NO | bb |

Dataset: U:IQ4.PRO|results\180110M31180110M3_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

## 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

| 4, xim | Name | Type | Std, Conc | RT | Area | IS Area | Response | Conc. | \%Dev | c. Fla | CODFla | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| [tise | 1 180110M3_2 | Standard | 150.000 | 5.73 | 10743.257 | 7146.186 | 18.792 | 151.3 | 0.9 | NO | NO | bb |
|  | 2 180110M3_3 | Standard | 150.000 | 5.73 | 9835.262 | 6976.103 | 17.623 | 141.9 | -5.4 | NO | NO | bb |
|  | 3 180110M3_4 | Standard | 150.000 | 5.73 | 12097.896 | 8730.687 | 17.321 | 139.5 | -7.0 | NO | NO | bb |
|  | $4180110 \mathrm{M3} 35$ | Standard | 150.000 | 5.73 | 12431.512 | 8502.860 | 18.275 | 147.2 | -1.9 | NO | NO | bb |
| 5 54. ${ }^{4}$ | 5 180110M3_6 | Standard | 150.000 | 5.73 | 16115.154 | 9392.645 | 21.447 | 172.7 | 15.1 | NO | NO | bb |
| 6 - ${ }^{\text {a }}$ | 6 180110M3_7 | Standard | 150.000 | 5.73 | 14402.728 | 10144.617 | 17.747 | 142.9 | -4.7 | NO | NO | bb |
|  | 7 180110M3_8 | Standard | 150.000 | 5.73 | 15466.819 | 10475.976 | 18.455 | 148.6 | -0.9 | NO | NO | bb |
| 8 (tate | 8 180110M3_9 | Standard | 150.000 | 5.73 | 14480.274 | 10176.034 | 17.787 | 143.2 | -4.5 | NO | NO | bb |
| 9 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 |  | Std. Conc | $R T$ |  | IS Area | Response Conc. \%Dev, Goncr Flag CoD CoD Flag x=excluded |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3nt | 1 180110M3_2 | Standard | 12.500 |  | $1955.129$ | 7146.186 | 3.420 | 12.1 | -2.9 | NO | NO | bb |
| - | 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 ${ }^{3}$ | 4 180110M3_5 | Standard | 12.500 | 6.10 | 2174.831 | 8502.860 | 3.197 | 11.3 | -9.2 | NO | NO | bb |
| 5 \% ${ }^{\text {din }}$ | 5 180110M3_6 | Standard | 12.500 | 6.10 | 3158.222 | 9392.645 | 4.203 | 14.9 | 19.4 | NO | NO | bb |
| 6. ${ }^{\text {andex }}$ | 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 - $9^{4}$ | 9 180110M3_10 | Standard | 12.500 | 6.10 | 3871.496 | 11733.247 | 4.124 | 14.6 | 17.1 | NO | NO | bb |

U:IQ4.PROiresults\180110M31180110M3_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

## 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

| Asme | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. |  |  | CoD F | xclude |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{2}$ | 1 180110M3_2 | Standard | 150.000 | 6.12 | 16238.895 | 7146.186 | 28.405 | 154.1 | 2.7 | NO | NO | bb |
|  | 2 180110M3_3 | Standard | 150.000 | 6.12 | 15620.249 | 6976.103 | 27.989 | 151.9 | 1.2 | NO | NO | bb |
|  | 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 |
| 噪 | 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 |
| - ${ }^{\text {a }}$ | 7180110 M 3 _8 | Standard | 150.000 | 6.11 | 22103.201 | 10475.976 | 26.374 | 143.1 | -4.6 | NO | NO | bb |
| 8 - ${ }^{4}$ | 8180110 M 3 _9 | Standard | 150.000 | 6.12 | 21279.357 | 10176.034 | 26.139 | 141.8 | -5.5 | NO | NO | bb |
| 9 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

| 4as | \# Name ${ }^{\text {d }}$ | Type | Tax Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. F | CoDFla | clu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 \% ${ }^{\text {a }}$ | 1 180110M3_2 | Standard | 5.000 | 6.43 | 1428.470 | 7146.186 | 2.499 | 4.6 | -7.4 | NO | NO | bb |
| $2{ }^{2} \operatorname{la}_{5}$ | 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 |
| $4 \times$ | 4 180110M3_5 | Standard | 5.000 | 6.43 | 1502.644 | 8502.860 | 2.209 | 4.1 | -18.2 | NO | NO | bb |
| 5 5, | 5180110 M 3 _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 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 |


| Last Altered: | Thursday, January 11, 2018 14:26:31 Pacific Standard Time |
| :--- | :--- |
| Printed: | Thursday, January 11, 2018 14:26:56 Pacific Standard Time |

## 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 | c. | F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| $3{ }^{3}$ | 3 180110M3_4 | Standard | 150.000 | 6.24 | 17457.375 | 8730.687 | 24.994 | 137.1 | -8.6 | NO | NO | bb |
|  | 4 180110M3_5 | Standard | 150.000 | 6.24 | 18372.555 | 8502.860 | 27.009 | 148.2 | -1.2 | NO | NO | bb |
|  | 5 180110M3_6 | Standard | 150.000 | 6.24 | 23253.285 | 9392.645 | 30.946 | 169.8 | 13.2 | NO | NO | bb |
| 6 - ${ }^{4}$ | 6 180110M3_7 | Standard | 150.000 | 6.24 | 18111.193 | 10144.617 | 22.316 | 122.4 | -18.4 | NO | NO | bb |
|  | 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

| \$ ${ }^{4}$ | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \% Dev | nc. | D | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 \% ${ }^{\text {ce }}$ | 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 | 13110.849 | 6976.103 | 23.492 | 136.2 | -9.2 | NO | NO | bb |
| 3.4 | 3 180110M3_4 | Standard | 150.000 | 6.39 | 16446.465 | 8730.687 | 23.547 | 136.5 | -9.0 | NO | NO | bb |
|  | 4 180110M3_5 | Standard | 150.000 | 6.39 | 16689.393 | 8502.860 | 24.535 | 142.2 | -5.2 | NO | NO | bb |
| 5 涘 - | 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 180110M3_8 | Standard | 150.000 | 6.39 | 22425.359 | 10475.976 | 26.758 | 155.1 | 3.4 | NO | NO | bb |
| 8 * - ${ }^{\text {a }}$ | 8 180110M3_9 | Standard | 150.000 | 6.39 | 16106.103 | 10176.034 | 19.784 | 114.7 | -23.6 | NO | NO | bb |
| 9 敕 | 9 180110M3_10 | Standard | 150.000 | 6.39 | 28984.094 | 11733.247 | 30.878 | 179.0 | 19.3 | NO | NO | bb |

Dataset: U:IQ4.PROTresultsl180110M31180110M3_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

## Compound name: 13C4-PFBA

Response Factor: 1
RRF SD: $3.92523 \mathrm{e}-017$, Relative SD: $3.92523 \mathrm{e}-015$
Response type: Internal Std ( Ref 54 ), Area * (IS Conc. / IS Area)
Curve type: RF


## 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


Dataset: U:IQ4.PRO|results|180110M31180110M3_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

## 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


## 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. |  | c. | I | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - 1 180110M3_2 | Standard | 12.500 | 4.22 | 7716.699 | 7716.699 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 2 2 180110M3_3 | Standard | 12.500 | 4.22 | 8022.848 | 8022.848 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | Standard | 12.500 | 4.22 | 9839.251 | 9839.251 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 者 4 4 180110M3_5 | Standard | 12.500 | 4.22 | 9158.829 | 9158.829 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5.5 | 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 200110M3_8 | Standard | 12.500 | 4.23 | 11624.087 | 11624.087 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | Standard | 12.500 | 4.22 | 9690.272 | 9690.272 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 9 9. $9180110 \mathrm{M3}$ _10 | Standard | 12.500 | 4.23 | 14028.530 | 14028.530 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

Dataset:
U:IQ4.PRO\results/180110M31180110M3_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

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 8.77708e-017, Relative SD: $8.77708 \mathrm{e}-015$
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: RF

|  | \# Name | Type | Std. Conc | RT | Area | 15 Area | Response ${ }_{\text {s }}$ | Conc. | \%Dev | Conc, Fla |  | cludec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1-4{ }^{\text {a }}$ a | 1 180110M3_2 | Standard | 12.500 | 4.65 | 8419.302 | 8419.302 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $2+5$ | 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 |
| $4 \pm 4$ | 4 180110M3_5 | Standard | 12.500 | 4.66 | 9727.010 | 9727.010 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 5 | 5 180110M3_6 | Standard | 12.500 | 4.66 | 13224.706 | 13224.706 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 6 180110M3_7 | Standard | 12.500 | 4.66 | 11503.174 | 11503.174 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 F | 7 180110M3_8 | Standard | 12.500 | 4.66 | 11865.055 | 11865.055 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 8 180110M3_9 | Standard | 12.500 | 4.66 | 11583.457 | 11583.457 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $9=1$ | 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: $5.55112 \mathrm{e}-017$, Relative SD: $5.55112 \mathrm{e}-015$
Response type: Internal Std (Ref 59 ), Area * (IS Conc. / IS Area )
Curve type: RF


| Dataset: | U:IQ4.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 |

## 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

| Wen | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag | CoD CoD Flag | $x$-excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | 1 180110M3_2 | Standard | 12.500 | 5.03 | 6709.350 | 6709.350 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 ata | 2 180110M3_3 | Standard | 12.500 | 5.03 | 6275.866 | 6275.866 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 - 1 | 3 180110M3_4 | Standard | 12.500 | 5.03 | 5735.000 | 5735.000 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| - | 4 180110M3_5 | Standard | 12.500 | 5.03 | 7379.163 | 7379.163 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| -30 | 5 180110M3_6. | Standard | 12.500 | 5.03 | 8404.810 | 8404.810 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4. 4, \% 4 | $6180110 \mathrm{M3} 37$ | Standard | 12.500 | 5.03 | 6873.380 | 6873.380 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| ") | $7180110 \mathrm{M3}$ _8 | Standard | 12.500 | 5.03 | 7852.201 | 7852.201 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 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


| Dataset: | U:IQ4.PRO\results\180110M31180110M3_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:IQ4.PRO\MethDBIPFAS_FULL_80C_010818.mdb 09 Jan 2018 10:39:49
Calibration: U:IQ4.PROICurveDBIC18_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

| 2- Name | ${ }^{*} \mathrm{CoD}$ | CoD Flag | \%RSD |
| :---: | :---: | :---: | :---: |
| 1 - 1 PFBA | 0.9991 | NO |  |
| $2 \quad 2$ PFPeA | 0.9994 | NO |  |
| 3 3- 3 PFBS | 0.9996 | NO |  |
| 4 4 4 PFHxA | 0.9981 | NO |  |
| 5 5 5 PFHpA | 0.9997 | NO |  |
| 6 - 6 L-PFHxS | 0.9982 | NO |  |
| 7 \% 7 , 86.2 FTS | 0.9952 | NO |  |
| 8 - 9 L-PFOA | 0.9985 | NO |  |
| 9 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 |  |
| 13.416 PFDA | 0.9999 | NO |  |
| 14 , 17 8:2 FTS | 0.9977 | NO |  |
| 15 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 PFTrDA | 0.9995 | NO |  |
| 22 \% 25 PFTeDA | 0.9995 | NO |  |
|  | 0.9999 | NO |  |
| 24 - 27 PFHxDA | 0.9977 | NO |  |
| 25.428 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 Ft 32 13C3-PFPeA |  | NO | 3.889 |
| 30 , 33 13C3-PFBS |  | NO | 6.327 |
| 31 Wert ${ }^{34} 13 \mathrm{C} 2$-PFHxA |  | NO | 4.819 |

Dataset: U:IQ4.PRO|results1180110M31180110M3_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


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:IQ4.PROIMethDBIPFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:26:25 Calibration: 11 Jan 2018 15:27:52

## Compound name: PFBA



Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818C.mdb 11 Jan 2018 11:46:18 Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAAS_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


Last Altered: Thursday, January 11, 2018 14:32:59 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 |  | Conc. | \%Rec Recovery Out |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | 35 13C4-PFHpA | 367.2 > 321.8 | 8.24 e 3 | 1.10 e4 | 0.604 | 3.78 | 3.71 | 9.33 | 15.4 | 123.6 | NO |
| 33 | 36 1802-PFHxS | $403.0>102.6$ | 9.86 e 2 | 2.90 e 3 | 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 | 1.06 e4 | 0.215 | 4.25 | 4.18 | 2.55 | 11.9 | 94.8 | NO |
| 35 | 38 13C2-PFOA | $414.9>369.7$ | 1.21 e4 | 1.06 e4 | 0.916 | 4.31 | 4.23 | 14.1 | 15.5 | 123.6 | NO |
| 36 | 39 13C5-PFNA | 468.2 > 422.9 | 9.71 e3 | 9.76 e 3 | 0.817 | 4.81 | 4.66 | 12.4 | 15.2 | 121.7 | NO |
| 37 | 40 13C8-PFOSA | $506.1>77.7$ | 2.29 e 3 | 9.91 e 3 | 0.223 | 4.87 | 4.72 | 2.89 | 12.9 | 103.6 | NO |
| 38 | 41 13C8-PFOS | $507.0>79.9$ | 2.64 e3 | 2.83 e 3 | 0.875 | 4.89 | 4.74 | 11.7 | 13.3 | 106.7 | NO |
| 39 | 42 13C2-PFDA | $515.1>469.9$ | 9.21 e 3 | 7.32 e 3 | 1.105 | 5.18 | 5.04 | 15.7 | 14.2 | 113.8 | NO |
| 40 | 43 13C2-8:2 FTS | $529.1>508.7$ | 1.21 e 3 | 1.10 e 4 | 0.101 | 5.15 | 5.00 | 1.37 | 13.6 | 108.5 | NO |
| 41 | $44 \mathrm{~d} 3-\mathrm{N}-\mathrm{MeFOSAA}$ | $573.3>419$ | 4.15 e 3 | 9.91 e3 | 0.345 | 5.32 | 5.18 | 5.23 | 15.2 | 121.3 | NO |
| 42 | $45 \mathrm{~d} 5-\mathrm{N}-\mathrm{EtFOSAA}$ | $589.3>419$ | 4.38 e 3 | 9.91 e 3 | 0.390 | 5.47 | 5.34 | 5.53 | 14.2 | 113.4 | NO |
| 43 | 46 13C2-PFUdA | $565>519.8$ | 9.66 e 3 | 9.91 e3 | 0.958 | 5.49 | 5.35 | 12.2 | 12.7 | 101.8 | NO |
| 44 - ${ }^{\text {a }}$ | 47 13C2-PFDoA | $615.0>569.7$ | 6.35 e 3 | 9.91 e 3 | 0.599 | 5.77 | 5.63 | 8.01 | 13.4 | 107.0 | NO |
|  | 48 d3-N-MeFOSA | $515.2>168.9$ | 1.48 e 4 | 9.91 e 3 | 0.124 | 5.83 | 5.73 | 18.6 | 150 | 100.1 | NO |
| 46 | 49 13C2-PFTeDA | $714.8>669.6$ | 2.33 e 3 | 9.91 e3 | 0.282 | 6.22 | 6.10 | 2.94 | 10.4 | 83.5 | NO |
| 47 | 50 d5-N-ETFOSA | $531.1>168.9$ | $2.26 e 4$ | 9.91 e3 | 0.184 | 6.18 | 6.12 | 28.5 | 155 | 103.2 | NO |
| 48 - | 51 13C2-PFHxDA | $815>769.7$ | 1.99 e 3 | 9.91 e 3 | 0.540 | 6.53 | 6.43 | 2.52 | 4.66 | 93.2 | NO |
| 49 | $52 \mathrm{~d} 7-\mathrm{N}-\mathrm{MeFOSE}$ | $623.1>58.9$ | 2.11 e 4 | 9.91 e3 | 0.182 | 6.27 | 6.24 | 26.6 | 146 | 97.2 | NO |
| 50. | 53 d9-N-EtFOSE | $639.2>58.8$ | 1.70 e 4 | 9.91 e 3 | 0.173 | 6.42 | 6.39 | 21.4 | 124 | 82.8 | NO |
| 51 | 54 13C4-PFBA | 217. $>171.8$ | 9.86 e 3 | 9.86 e 3 | 1.000 | 1.38 | 1.33 | 12.5 | 12.5 | 100.0 | NO |
| 52 | 55 13C5-PFHxA | $318>272.9$ | 1.10 e 4 | 1.10 e 4 | 1.000 | 3.15 | 3.09 | 12.5 | 12.5 | 100.0 | NO |
| 53 | 56 13C3-PFHxS | $401.9>79.9$ | 2.90 e 3 | 2.90 e3 | 1.000 | 4.02 | 3.86 | 12.5 | 12.5 | 100.0 | NO |
| 54 | 57 13C8-PFOA | $421.3>376$ | 1.06 e 4 | 1.06 e 4 | 1.000 | 4.38 | 4.22 | 12.5 | 12.5 | 100.0 | NO |
| 55 | 58 13C9-PFNA | 472.2 > 426.9 | 9.76 e 3 | 9.76 e 3 | 1.000 | 4.81 | 4.66 | 12.5 | 12.5 | 100.0 | NO |
| 56 | 59 13C4-PFOS | $503>79.9$ | 2.83 e 3 | 2.83 e 3 | 1.000 | 4.89 | 4.74 | 12.5 | 12.5 | 100.0 | NO |
| 57 | 60 13C6-PFDA | $519.1>473.7$ | 7.32 e 3 | 7.32 e 3 | 1.000 | 5.18 | 5.03 | 12.5 | 12.5 | 100.0 | NO |
| 58 - | 61 13C7-PFUdA | $570.1>524.8$ | 9.91 e 3 | 9.91 e 3 | 1.000 | 5.49 | 5.35 | 12.5 | 12.5 | 100.0 | NO |

Dataset: U:IQ4.PROIresults1180114M1180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed:
Monday, January 15, 2018 15:01:01 Pacific Standard Time

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818D.mdb 14 Jan 2018 14:14:32
Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS_Q4_01-14-18-FULL.cdb 15 Jan 2018 14:59:56

## Compound name: PFBA

Correlation coefficient: $r=0.996964, r^{\wedge} 2=0.993936$
Calibration curve: 1.3668 * $x+-0.0652293$
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None


Compound name: PFPeA
Correlation coefficient: $r=0.998347, r^{\wedge} 2=0.996696$
Calibration curve: $1.21215{ }^{*} x+-0.1723$
Response type: Internal Std (Ref 32 ), Area * ( IS Conc. / IS Area )
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Dataset:

U:IQ4.PROIresults\180114M11180114M1-crv.qld
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## Compound name: PFBS

Coefficient of Determination: $R^{\wedge} 2=0.998347$
Calibration curve: $0.00424493{ }^{*} x^{\wedge} 2+1.8508$ * $x+0.12144$
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 |  |  | Com Fiag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 momer | 1 180114M1_1 | Standard | 0.250 | 2.51 | 33.426 | 934.175 | 0.447 | 0.2 | -29.6 | NO | 0.998 | NO | MM |
|  | 2 180114M1_2 | Standard | 0.500 | 2.62 | 77.424 | 890.167 | 1.087 | 0.5 | 4.2 | NO | 0.998 | NO | bb |
| \% ${ }^{\text {a }}$ | 3 180114M1_3 | Standard | 1.000 | 2.62 | 177.969 | 1034.113 | 2.151 | 1.1 | 9.4 | NO | 0.998 | NO | bb |
|  | 4 180114M1_4 | Standard | 2.000 | 2.61 | 271.763 | 890.175 | 3.816 | 2.0 | -0.6 | NO | 0.998 | NO | bb |
| 5 \% | 5 180114M1_5 | Standard | 5.000 | 2.60 | 880.576 | 1044.159 | 10.542 | 5.6 | 11.2 | NO | 0.998 | NO | bb |
| 6 - ${ }^{\text {a }}$ | 6 180114M1_6 | Standard | 10.000 | 2.60 | 1617.037 | 970.681 | 20.823 | 10.9 | 9.1 | NO | 0.998 | NO | bb |
| $7{ }^{\text {a }}$ - | 7 180114M1_7 | Standard | 50.000 | 2.59 | 7971.468 | 1017.077 | 97.970 | 47.7 | -4.7 | NO | 0.998 | NO | bb |
| 8, | 8 180114M1_8 | Standard | 100.000 | 2.59 | 16560.941 | 899.773 | 230.071 | 100.9 | 0.9 | NO | 0.998 | NO | bb |

## Compound name: PFHxA

Correlation coefficient: $r=0.999450, r^{\wedge 2} 2=0.998900$
Calibration curve: 1.8219 * $x+0.0775713$
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 | nc. | Cod | . | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 0.250 | 3.00 | 298.466 | 2593.698 | 0.575 | 0.3 | 9.3 | NO | 0.999 | NO | bb |
| . | 2 180114M1_2 | Standard | 0.500 | 3.03 | 476.716 | 2417.925 | 0.986 | 0.5 | -0.3 | NO | 0.999 | NO | bb |
|  | 3 180114M1_3 | Standard | 1.000 | 3.04 | 950.021 | 2496.623 | 1.903 | 1.0 | 0.2 | NO | 0.999 | NO | bb |
| 14. | 4 180114M1_4 | Standard | 2.000 | 3.02 | 1585.091 | 2285.827 | 3.467 | 1.9 | -7.0 | NO | 0.999 | NO | bb |
|  | 5 180114M1_5 | Standard | 5.000 | 3.02 | 4849.127 | 2659.516 | 9.117 | 5.0 | -0.8 | NO | 0.999 | NO | bb |
| 6 | 6 180114M1_6 | Standard | 10.000 | 3.02 | 9812.054 | 2659.548 | 18.447 | 10.1 | 0.8 | NO | 0.999 | NO | bb |
| 7. | 7 180114M1_7 | Standard | 50.000 | 3.01 | 44306.566 | 2547.623 | 86.957 | 47.7 | -4.6 | NO | 0.999 | NO | bb |
| 8 - | 8 180114M1_8 | Standard | 100.000 | 3.01 | 91646.156 | 2455.493 | 186.615 | 102.4 | 2.4 | NO | 0.999 | NO | bb |

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## Compound name: PFHpA

Correlation coefficient: $r=0.996428, r^{\wedge} 2=0.992868$
Calibration curve: 1.28453 * $x+0.105213$
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 | xclude |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 . | 1 180114M1_1 | Standard | 0.250 | 3.57 | 190.819 | 6881.557 | 0.347 | 0.2 | -24.8 | NO | 0.993 | NO | bb |
| $2{ }^{2}$ | 2 180114M1_2 | Standard | 0.500 | 3.58 | 308.878 | 5947.945 | 0.649 | 0.4 | -15.3 | NO | 0.993 | NO | bb |
| 3 | 3 180114M1_3 | Standard | 1.000 | 3.57 | 743.958 | 6964.397 | 1.335 | 1.0 | -4.2 | NO | 0.993 | NO | bb |
| 4 - | 4 180114M1_4 | Standard | 2.000 | 3.56 | 1486.634 | 5740.771 | 3.237 | 2.4 | 21.9 | NO | 0.993 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 5.000 | 3.55 | 4142.738 | 6804.188 | 7.611 | 5.8 | 16.9 | NO | 0.993 | NO | bb |
| 6 | 6 180114M1_6 | Standard | 10.000 | 3.55 | 7681.042 | 6758.660 | 14.206 | 11.0 | 9.8 | NO | 0.993 | NO | bb |
| 7 7 | 7 180114M1_7 | Standard | 50.000 | 3.55 | 33208.555 | 6731.813 | 61.663 | 47.9 | -4.2 | NO | 0.993 | NO | bb |
| 8 . | 8 180114M1_8 | Standard | 100.000 | 3.54 | 74400.289 | 5891.095 | 157.866 | 122.8 | 22.8 | NO | 0.993 | NO | bbX |

Compound name: L-PFHxS
Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.990036$
Calibration curve: 0.00482749 * $x^{\wedge} 2+1.6414$ * $x+0.202957$
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. | COD | D | exclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{2}$ | 1 180114M1_1 | Standard | 0.250 | 3.71 | 38.644 | 737.179 | 0.655 | 0.3 | 10.1 | NO | 0.990 | NO | MM |
| 2 - | 2 180114M1_2 | Standard | 0.500 | 3.72 | 48.241 | 711.707 | 0.847 | 0.4 | -21.6 | No | 0.990 | NO | MM |
| $3-$ | 3 180114M1_3 | Standard | 1.000 | 3.70 | 142.858 | 884.671 | 2.019 | 1.1 | 10.3 | NO | 0.990 | NO | MM |
| 4 | 4 180114M1_4 | Standard | 2.000 | 3.70 | 224.301 | 730.128 | 3.840 | 2.2 | 10.1 | NO | 0.990 | NO | MM |
| 5 | 5 180114M1_5 | Standard | 5.000 | 3.69 | 614.187 | 723.937 | 10.605 | 6.2 | 24.5 | NO | 0.990 | NO | MM |
| 6 , | 6 180114M1_6 | Standard | 10.000 | 3.68 | 1378.504 | 799.959 | 21.540 | 12.5 | 25.4 | NO | 0.990 | NO | MM |
| 7. | 7 180114M1_7 | Standard | 50.000 | 3.68 | 6001.384 | 918.361 | 81.686 | 44.0 | -12.1 | NO | 0.990 | NO | MM |
| 8 为 | 8 180114M1_8 | Standard | 100.000 | 3.68 | 12680.335 | 725.783 | 218.391 | 102.2 | 2.2 | NO | 0.990 | NO | MM |

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## Compound name: 6:2 FTS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.995652$
Calibration curve: -0.00171263 * $x^{\wedge} 2+1.07888$ * $x+0.0650312$
Response type: Internal Std (Ref 37 ), 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 |  | CoD | CoD Flag | x=excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - max | 1 180114M1_1 | Standard | 0.250 | 4.03 | 48.842 | 1996.372 | 0.306 | 0.2 | -10.7 | NO | 0.996 | NO | MM |
| - ${ }^{2}$ | 2 180114M1_2 | Standard | 0.500 | 4.03 | 74.110 | 1495.703 | 0.619 | 0.5 | 2.8 | NO | 0.996 | NO | MM |
| 3 - | 3 180114M1_3 | Standard | 1.000 | 4.02 | 179.165 | 1626.136 | 1.377 | 1.2 | 21.9 | NO | 0.996 | NO | MM |
| $14$ | 4 180114M1_4 | Standard | 2.000 | 4.01 | 275.994 | 1735.917 | 1.987 | 1.8 | -10.7 | NO | 0.996 | NO | MM |
|  | 5 180114M1_5 | Standard | 5.000 | 4.00 | 845.264 | 1683.943 | 6.274 | 5.8 | 16.2 | NO | 0.996 | NO | MM |
| 6 - | 6 180114M1_6 | Standard | 10.000 | 4.00 | 1421.508 | 1511.655 | 11.755 | 11.0 | 10.3 | NO | 0.996 | NO | MM |
| 7 . | 7 180114M1_7 | Standard | 50.000 | 3.99 | 8232.155 | 2228.404 | 46.177 | 46.1 | -7.8 | NO | 0.996 | NO | MM |
| 8 8, | 8 180114M1_8 | Standard | 100.000 | 3.99 | 13453.490 | 1818.953 | 92.454 | 102.2 | 2.2 | NO | 0.996 | NO | MM |

Compound name: L-PFOA
Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999272$
Calibration curve: $-0.0005185^{*} x^{\wedge} 2+1.18475^{*} x+0.254039$
Response type: Internal Std (Ref 38 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| 2 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev Conc. Flag CoD CoD Flag |  |  |  | $\mathrm{x}=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| atam | 1 180114M1_1 | Standard | 0.250 | 4.11 | 400.479 | 8707.114 | 0.575 | 0.3 | 8.4 | NO | 0.999 | NO | MM |
|  | 2 180114M1_2 | Standard | 0.500 | 4.11 | 666.423 | 9668.123 | 0.862 | 0.5 | 2.6 | NO | 0.999 | NO | bb |
| - 40 | 3 180114M1_3 | Standard | 1.000 | 4.10 | 1149.828 | 11837.389 | 1.214 | 0.8 | -18.9 | NO | 0.999 | NO | bb |
|  | 4 180114M1_4 | Standard | 2.000 | 4.09 | 1873.390 | 9123.959 | 2.567 | 2.0 | -2.3 | NO | 0.999 | NO | bb |
| 2 | 5 180114M1_5 | Standard | 5.000 | 4.08 | 5219.928 | 9599.560 | 6.797 | 5.5 | 10.7 | NO | 0.999 | NO | bb |
|  | 6 180114M1_6 | Standard | 10.000 | 4.08 | 8956.753 | 9220.297 | 12.143 | 10.1 | 0.8 | NO | 0.999 | NO | bb |
| 7 H | 7 180114M1_7 | Standard | 50.000 | 4.08 | 40625.789 | 8862.797 | 57.298 | 49.2 | -1.6 | NO | 0.999 | NO | bb |
| 8 - | $8180114 \mathrm{M1}$ _8 | Standard | 100.000 | 4.07 | 73704.883 | 8084.847 | 113.955 | 100.4 | 0.4 | NO | 0.999 | NO | bb |

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## Compound name: PFHpS

Coefficient of Determination: R^2 $=0.999513$
Calibration curve: 0.000669016 * $x^{\wedge} 2+0.247135$ * $x+-0.0134056$
Response type: Internal Std (Ref 38 ), Area * (IS Conc. / IS Area
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| 5may | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag | COD CoD Flag x=excluded |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180114M1_1 | Standard | 0.250 | 4.23 | 29.425 | 8707.114 | 0.042 | 0.2 | -10.0 | NO | 1.000 | NO | MM |
| 2 | 2 180114M1_2 | Standard | 0.500 | 4.23 | 88.014 | 9668.123 | 0.114 | 0.5 | 2.8 | NO | 1.000 | NO | MM |
| 3.10 | 3 180114M1_3 | Standard | 1.000 | 4.22 | 210.065 | 11837.389 | 0.222 | 0.9 | -5.1 | NO | 1.000 | NO | MM |
| 4 - | 4 180114M1_4 | Standard | 2.000 | 4.21 | 358.776 | 9123.959 | 0.492 | 2.0 | 1.6 | NO | 1.000 | NO | MM |
| $0^{3}$ | 5 180114M1_5 | Standard | 5.000 | 4.20 | 1074.789 | 9599.560 | 1.400 | 5.6 | 12.6 | NO | 1.000 | No | MM |
| 6 | 6 180114M1_6 | Standard | 10.000 | 4.20 | 1848.967 | 9220.297 | 2.507 | 9.9 | -0.7 | NO | 1.000 | NO | MM |
| $7^{\text {anama }}$ | 7 180114M1_7 | Standard | 50.000 | 4.20 | 9754.969 | 8862.797 | 13.758 | 49.2 | -1.6 | NO | 1.000 | NO | MM |
|  | 8 180114M1_8 | Standard | 100.000 | 4.19 | 20382.117 | 8084.847 | 31.513 | 100.3 | 0.3 | NO | 1.000 | NO | MM |

## Compound name: PFNA

Coefficient of Determination: R^2 $=0.991098$
Calibration curve: -0.00851903 * $\wedge^{\wedge} 2+1.56926$ * x + -0.036541
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 |  | COD | CoDFlag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 边 | 1 180114M1_1 | Standard | 0.250 | 4.58 | 380.759 | 10672.131 | 0.446 | 0.3 | 23.2 | NO | 0.991 | NO | MM |
|  | 2 180114M1_2 | Standard | 0.500 | 4.58 | 557.026 | 7959.980 | 0.875 | 0.6 | 16.5 | NO | 0.991 | NO | bb |
| $3 \times 5$ | 3 180114M1_3 | Standard | 1.000 | 4.57 | 923.066 | 9755.683 | 1.183 | 0.8 | -22.0 | NO | 0.991 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 4.56 | 1797.713 | 8907.903 | 2.523 | 1.6 | -17.7 | NO | 0.991 | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 5.000 | 4.56 | 4726.958 | 8863.639 | 6.666 | 4.4 | -12.5 | NO | 0.991 | NO | bb |
|  | 6 180114M1_6 | Standard | 10.000 | 4.55 | 10893.765 | 8177.809 | 16.651 | 11.3 | 13.3 | NO | 0.991 | No | bb |
| 5am | 7 180114M1_7 | Standard | 50.000 | 4.55 | 46157.016 | 10143.640 | 56.879 | 49.7 | -0.7 | NO | 0.991 | NO | bb |
|  | 8 180114M1_8 | Standard | 100.000 | 4.54 | 80995.242 | 6660.756 | 152.001 |  |  | NO | 0.991 | NO | bbXI |

## Dataset:

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## Compound name: PFOSA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.994286$
Calibration curve: $-0.011251^{*} x^{\wedge} 2+1.65021^{*} x+-0.536272$
Response type: Internal Std ( Ref 40 ), 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 | nc. | CoD | CoDF | excladed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180114M1_1 | Standard | 0.250 | 4.65 | 51.013 | 2131.943 | 0.299 | 0.5 | 103.2 | NO | 0.994 | NO | MMX |
| 2 | 2 180114M1_2 | Standard | 0.500 | 4.65 | 72.145 | 1705.021 | 0.529 | 0.6 | 29.7 | NO | 0.994 | NO | bb |
|  | 3 180114M1_3 | Standard | 1.000 | 4.64 | 120.939 | 1727.581 | 0.875 | 0.9 | -14.0 | NO | 0.994 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 4.64 | 280.306 | 1645.980 | 2.129 | 1.6 | -18.3 | NO | 0.994 | NO | bb |
| 5 . | 5 180114M1_5 | Standard | 5.000 | 4.62 | 961.796 | 1691.695 | 7.107 | 4.8 | -4.2 | NO | 0.994 | NO | bb |
|  | 6 180114M1_6 | Standard | 10.000 | 4.62 | 2061.423 | 1621.123 | 15.895 | 10.7 | 7.4 | NO | 0.994 | NO | bb |
| T4. | 7 180114M1_7 | Standard | 50.000 | 4.61 | 8042.539 | 1872.306 | 53.694 | 49.7 | -0.6 | NO | 0.994 | NO | bb |
| 8 \% | 8 180114M1_8 | Standard | 100.000 | 4.61 | 17648.303 | 1510.559 | 146.041 |  |  | NO | 0.994 | NO | bbXI |

## Compound name: L-PFOS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.992332$
Calibration curve: $-0.00413738{ }^{*} x^{\wedge} 2+1.22769$ * $x+0.000665389$
Response type: Internal Std (Ref 41 ), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


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## Compound name: PFDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.993028$
Calibration curve: $0.00973524^{*} x^{\wedge} 2+1.186{ }^{*} x+0.269585$
Response type: Internal Std (Ref 42 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Compound name: 8:2 FTS

Correlation coefficient: $r=0.996158, r^{\wedge} 2=0.992331$
Calibration curve: $1.90577^{*} \mathrm{x}+-0.074565$
Response type: Internal Std (Ref 43 ), 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 180114M1_1 | Standard | 0.250 | 4.93 | 34.407 | 1619.860 | 0.266 | 0.2 | -28.6 | NO | 0.992 | NO | MMX |
| 2 -609x | 2 180114M1_2 | Standard | 0.500 | 4.93 | 57.468 | 684.343 | 1.050 | 0.6 | 18.0 | NO | 0.992 | NO | MM |
| 3 a | 3 180114M1_3 | Standard | 1.000 | 4.92 | 120.484 | 939.969 | 1.602 | 0.9 | -12.0 | NO | 0.992 | NO | bb |
|  | 4 180114M1_4 | Standard | 2.000 | 4.91 | 250.011 | 1008.736 | 3.098 | 1.7 | -16.8 | NO | 0.992 | NO | bb |
|  | 5 180114M1_5 | Standard | 5.000 | 4.90 | 669.049 | 897.015 | 9.323 | 4.9 | -1.4 | NO | 0.992 | NO | bb |
|  | 6 180114M1_6 | Standard | 10.000 | 4.90 | 1510.262 | 952.935 | 19.811 | 10.4 | 4.3 | NO | 0.992 | NO | MM |
| 7 7 | 7 180114M1_7 | Standard | 50.000 | 4.89 | 6595.664 | 1216.973 | 67.747 | 35.6 | -28.8 | NO | 0.992 | NO | $b b X$ |
| 8 \% | 8 180114M1_8 | Standard | 100.000 | 4.88 | 15628.073 | 1130.511 | 172.799 | 90.7 | -9.3 | NO | 0.992 | NO | bbX |

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## Compound name: N-MeFOSAA

Coefficient of Determination: $R^{\wedge} 2=0.996900$
Calibration curve: 0.0978372 * $x^{\wedge} 2+1.26132$ * $x+-0.000840061$
Response type: Internal Std (Ref 44 ), Area * IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: $1 / \mathrm{x}$, Axis trans: None

| matanemer | \# Name | Type | Std. Conc. | RT | Area | IS Area | Response | Conc. | \%Dev | , |  |  | cluc |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 2ax | 1 180114M1_1 | Standard | 0.250 | 5.13 | 65.729 | 2386.166 | 0.344 | 0.3 | 7.2 | NO | 0.997 | NO | bb |
| 2 | 2 180114M1_2 | Standard | 0.500 | 5.13 | 109.305 | 2679.466 | 0.510 | 0.4 | -21.4 | NO | 0.997 | NO | bb |
| 3 | 3 180114M1_3 | Standard | 1.000 | 5.12 | 332.162 | 2887.384 | 1.438 | 1.1 | 5.4 | NO | 0.997 | NO | bb |
| 4 . 4 asma | 4 180114M1_4 | Standard | 2.000 | 5.11 | 654.021 | 2460.522 | 3.323 | 2.2 | 12.2 | NO | 0.997 | NO | bb |
|  | 5 180114M1_5 | Standard | 5.000 | 5.10 | 1730.441 | 2643.908 | 8.181 | 4.7 | -5.2 | NO | 0.997 | NO | bb |
| 6 - 4.ay | 6 180114M1_6 | Standard | 10.000 | 5.10 | 3411.308 | 1886.944 | 22.598 | 10.1 | 0.6 | NO | 0.997 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 5.09 | 13429.551 | 2602.104 | 64.513 | 20.0 | -59.9 | NO | 0.997 | NO | bbX |
| 8 践 | 8 180114M1_8 | Standard | 100.000 | 5.09 | 29816.752 | 2276.305 | 163.734 | 35.0 | -65.0 | NO | 0.997 | NO | bbX |

Compound name: N-EtFOSAA
Correlation coefficient: $r=0.995957, r^{\wedge} 2=0.991929$
Calibration curve: 1.2718 * x + -0.278352
Response type: Internal Std (Ref 45 ), 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 | nc. | CoD | CoD Flag | x-excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 0.250 | 5.30 | 41.404 | 2456.595 | 0.211 | 0.4 | 53.8 | NO | 0.992 | NO | MMX |
| 2 | 2 180114M1_2 | Standard | 0.500 | 5.31 | 124.612 | 3198.114 | 0.487 | 0.6 | 20.4 | NO | 0.992 | NO | MMX |
|  | 3 180114M1_3 | Standard | 1.000 | 5.30 | 299.620 | 3229.057 | 1.160 | 1.1 | 13.1 | NO | 0.992 | NO | MM |
| $4 \quad$ \% | 4 180114M1_4 | Standard | 2.000 | 5.29 | 331.844 | 2758.213 | 1.504 | 1.4 | -29.9 | NO | 0.992 | NO | MM |
|  | 5 180114M1_5 | Standard | 5.000 | 5.29 | 1772.276 | 3064.781 | 7.228 | 5.9 | 18.0 | NO | 0.992 | NO | MM |
|  | 6 180114M1_6 | Standard | 10.000 | 5.28 | 3749.556 | 3574.455 | 13.112 | 10.5 | 5.3 | NO | 0.992 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 5.28 | 16552.547 | 3676.360 | 56.280 | 44.5 | -11.1 | NO | 0.992 | NO | MM |
| 8 - | 8180114 M 1 _ 8 | Standard | 100.000 | 5.27 | 30935.979 | 2913.941 | 132.707 | 104.6 | 4.6 | NO | 0.992 | NO | bb |


| Dataset: | U:IQ4.PRO\resultsI180114M1\180114M1-crv.qld |
| :--- | :--- |
| Last Altered: | Monday, January 15, 2018 14:59:57 Pacific Standard Time |
| Printed: | Monday, January 15, 2018 15:01:01 Pacific Standard Time |

## Compound name: PFUdA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.991571$
Calibration curve: $0.00136055^{*} x^{\wedge} 2+1.14892$ * $x+0.218768$
Response type: Internal Std (Ref 46 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| 5 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev Conc Flag CoD | Conc. Flag CoD |  | * CoD Flag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 maxat | 1 180114M1_1 | Standard | 0.250 | 5.32 | 272.133 | 11952.269 | 0.285 | 0.1 | -77.1 | NO | 0.992 | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 0.500 | 5.32 | 443.587 | 8142.762 | 0.681 | 0.4 | -19.6 | NO | 0.992 | NO | bb |
| 3 | 3 180114M1_3 | Standard | 1.000 | 5.31 | 1032.473 | 9973.248 | 1.294 | 0.9 | -6.5 | NO | 0.992 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 5.31 | 1673.701 | 9333.110 | 2.242 | 1.8 | -12.2 | NO | 0.992 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 5.000 | 5.30 | 5575.767 | 9466.337 | 7.363 | 6.2 | 23.5 | NO | 0.992 | NO | bb |
|  | 6 180114M1_6 | Standard | 10.000 | 5.29 | 10551.473 | 9079.952 | 14.526 | 12.3 | 22.7 | NO | 0.992 | NO | bb |
| 7 aticter | 7 180114M1_7 | Standard | 50.000 | 5.29 | 42337.848 | 9698.532 | 54.567 | 44.9 | -10.2 | NO | 0.992 | NO | bb |
|  | 8 180114M1_8 | Standard | 100.000 | 5.29 | 86419.133 | 8206.241 | 131.636 | 102.1 | 2.1 | NO | 0.992 | NO | bb |

## Compound name: PFDS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.993596$
Calibration curve: $-0.000379067^{*} x^{\wedge} 2+0.349857{ }^{*} x+-0.0291515$
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 | D | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180114M1_1 | Standard | 0.250 | 5.36 | 54.187 | 11952.269 | 0.057 | 0.2 | -1.9 | NO | 0.994 | NO | MM |
| 1 coc | 2 180114M1_2 | Standard | 0.500 | 5.37 | 63.647 | 8142.762 | 0.098 | 0.4 | -27.5 | NO | 0.994 | NO | bb |
| 3 | 3 180114M1_3 | Standard | 1.000 | 5.35 | 338.900 | 9973.248 | 0.425 | 1.3 | 29.9 | NO | 0.994 | NO | bb |
| - 5 - 4 | 4 180114M1_4 | Standard | 2.000 | 5.34 | 422.089 | 9333.110 | 0.565 | 1.7 | -14.9 | NO | 0.994 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 5.000 | 5.34 | 1274.110 | 9466.337 | 1.682 | 4.9 | -1.6 | NO | 0.994 | NO | bb |
| 6 | 6 180114M1_6 | Standard | 10.000 | 5.34 | 3029.879 | 9079.952 | 4.171 | 12.2 | 21.7 | NO | 0.994 | NO | bb |
| 7 - | 7 180114M1_7 | Standard | 50.000 | 5.33 | 11897.124 | 9698.532 | 15.334 | 46.2 | -7.5 | NO | 0.994 | NO | bb |
| 8 m | 8 180114M1_8 | Standard | 100.000 | 5.33 | 20801.719 | 8206.241 | 31.686 | 101.9 | 1.9 | NO | 0.994 | NO | bb |

## Dataset:

U:IQ4.PRO|results|180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: PFDoA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.996462$
Calibration curve: $-0.0186224{ }^{*} x^{\wedge} 2+2.78866 * x+-0.491721$
Response type: Internal Std (Ref 47 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| cras | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Fiag | CoD CoD Flag x=excluded |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 0.250 | 5.62 | 476.521 | 7560.831 | 0.788 | 0.5 | 84.1 | NO | 0.996 | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 0.500 | 5.62 | 615.205 | 6692.443 | 1.149 | 0.6 | 18.1 | NO | 0.996 | NO | bb |
| 3 tate | 3 180114M1_3 | Standard | 1.000 | 5.61 | 1249.795 | 7193.966 | 2.172 | 1.0 | -3.9 | NO | 0.996 | NO | bb |
| $4 \times$ | 4 180114M1_4 | Standard | 2.000 | 5.60 | 2531.175 | 7520.150 | 4.207 | 1.7 | -14.8 | NO | 0.996 | NO | bb |
| 5 | 5180114 M 1 _5 | Standard | 5.000 | 5.60 | 6172.939 | 6317.912 | 12.213 | 4.7 | -5.9 | NO | 0.996 | NO | bb |
| $6^{4}$ Waty | $6180114 \mathrm{M1} \mathrm{\_6}$ | Standard | 10.000 | 5.60 | 11802.197 | 5426.459 | 27.187 | 10.7 | 6.9 | NO | 0.996 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 5.59 | 52322.867 | 7096.452 | 92.164 | 49.8 | -0.5 | NO | 0.996 | NO | bb |
| 8 , | 8 180114M1_8 | Standard | 100.000 | 5.59 | 109564.680 | 5518.140 | 248.192 |  |  | NO | 0.996 | NO | bbXI |

## Compound name: N-MeFOSA

Correlation coefficient: $\mathrm{r}=0.999223, \mathrm{r}^{\wedge} 2=0.998448$
Calibration curve: $1.09225^{*} \mathrm{x}+-0.176455$
Response type: Internal Std ( Ref 48 ), Area * ( IS Conc. / IS Area )
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None

| 5 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev Conc Flag CoD |  |  | CoD Flag $x=$ excluded <br> NO $b b X$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 ande | 1 180114M1_1 | Standard | 1.250 | 5.93 | 80.300 | 8791.715 | 1.370 | 1.4 | 13.3 | NO | 0.998 |  |  |
| 2 | 2 180114M1_2 | Standard | 2.500 | 5.94 | 189.429 | 14062.988 | 2.021 | 2.0 | -19.5 | NO | 0.998 | NO | bb |
| 3 | 3 180114M1_3 | Standard | 5.000 | 5.92 | 531.614 | 16152.640 | 4.937 | 4.7 | -6.4 | NO | 0.998 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 10.000 | 5.92 | 1083.273 | 14597.956 | 11.131 | 10.4 | 3.5 | NO | 0.998 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 25.000 | 5.92 | 2949.133 | 15082.849 | 29.329 | 27.0 | 8.1 | NO | 0.998 | NO | bb |
| 6 | 6180114 M 1 6 | Standard | 50.000 | 5.92 | 6030.591 | 14954.120 | 60.491 | 55.5 | 11.1 | NO | 0.998 | NO | bb |
| 7 7 | 7 180114M1_7 | Standard | 250.000 | 5.91 | 26838.785 | 15302.427 | 263.084 | 241.0 | -3.6 | NO | 0.998 | NO | bb |
| 8 | 8 180114M1_8 | Standard | 500.000 | 5.91 | 55005.156 | 15056.446 | 547.989 | 501.9 | 0.4 | NO | 0.998 | NO | bb |

## Dataset:

U:IQ4.PRO|results180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
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Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: PFTrDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997017$
Calibration curve: $0.359559^{*} x^{\wedge} 2+2.96789{ }^{*} x+1.12885$
Response type: Internal Std (Ref 49 ), Area * (IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| "tar | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag | CoD | D | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180114M1_1 | Standard | 0.250 | 5.89 | 358.953 | 2445.649 | 1.835 | 0.2 | -7.5 | NO | 0.997 | NO | bb |
| 2 20, | 2 180114M1_2 | Standard | 0.500 | 5.89 | 615.254 | 2977.955 | 2.583 | 0.5 | -7.3 | NO | 0.997 | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 1.000 | 5.88 | 1355.767 | 3643.180 | 4.652 | 1.1 | 5.3 | NO | 0.997 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 5.87 | 2567.119 | 3315.638 | 9.678 | 2.3 | 13.1 | NO | 0.997 | NO | bb |
| $5 \cdots$ | 5 180114M1_5 | Standard | 5.000 | 5.86 | 5644.954 | 3058.884 | 23.068 | 4.7 | -5.9 | NO | 0.997 | NO | bb |
| 6 | $6180114 \mathrm{M1}$ _6 | Standard | 10.000 | 5.87 | 13760.456 | 2549.694 | 67.461 | 10.1 | 0.7 | NO | 0.997 | NO | bb |
| 7 | 7 180114M1_7 | Standard | 50.000 | 5.85 | 51574.625 | 3307.861 | 194.894 | 19.5 | -61.1 | NO | 0.997 | NO | $b b x$ |
| 8 | 8 180114M1_8 | Standard | 100.000 | 5.85 | 118604.547 | 2959.760 | 500.904 | 33.4 | -66.6 | NO | 0.997 | NO | bbX |

## Compound name: PFTeDA

Coefficient of Determination: $R^{\wedge} 2=0.998702$
Calibration curve: -0.0178968 * $x^{\wedge} 2+2.90614$ * $x+-0.360258$
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. F | CoD | D | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14, matar | 1 180114M1_1 | Standard | 0.250 | 6.12 | 204.285 | 2445.649 | 1.044 | 0.5 | 93.9 | NO | 0.999 | NO | bbX |
| 2 2x-m | 2 180114M1_2 | Standard | 0.500 | 6.12 | 289.165 | 2977.955 | 1.214 | 0.5 | 8.7 | NO | 0.999 | NO | bb |
|  | 3 180114M1_3 | Standard | 1.000 | 6.11 | 702.186 | 3643.180 | 2.409 | 1.0 | -4.1 | NO | 0.999 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 6.10 | 1393.470 | 3315.638 | 5.253 | 2.0 | -2.2 | NO | 0.999 | NO | bb |
|  | 5 180114M1_5 | Standard | 5.000 | 6.10 | 3134.013 | 3058.884 | 12.807 | 4.7 | -6.7 | NO | 0.999 | NO | bb |
| 6 - | 6 180114M1_6 | Standard | 10.000 | 6.09 | 5728.576 | 2549.694 | 28.085 | 10.5 | 4.6 | NO | 0.999 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 6.09 | 26480.877 | 3307.861 | 100.068 | 49.9 | -0.2 | NO | 0.999 | NO | bb |
| 8 - | 8 180114M1_8 | Standard | 100.000 | 6.09 | 52322.582 | 2959.760 | 220.975 |  |  | NO | 0.999 | NO | bbXI |

## Dataset:

U:|Q4.PRO|results1180114M1|180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
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Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: N-EtFOSA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997385$
Calibration curve: $5.6043 \mathrm{e}-005{ }^{*} x^{\wedge} 2+0.980236{ }^{*} x+0.202634$
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 |  |  | CaD | CoD Flag x excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 1.250 | 6.34 | 60.281 | 7003.886 | 1.291 | 1.1 | -11.2 | NO | 0.997 | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 2.500 | 6.35 | 237.305 | 14916.356 | 2.386 | 2.2 | -10.9 | NO | 0.997 | NO | bb |
| 3 ara | 3 180114M1_3 | Standard | 5.000 | 6.34 | 549.312 | 17570.045 | 4.690 | 4.6 | -8.5 | NO | 0.997 | NO | bb |
| 4 - 4 ma | 4 180114M1_4 | Standard | 10.000 | 6.34 | 1040.310 | 15895.931 | 9.817 | 9.8 | -2.0 | NO | 0.997 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 25.000 | 6.33 | 3046.671 | 15906.663 | 28.730 | 29.1 | 16.2 | NO | 0.997 | NO | bb |
| 6 - | 6 180114M1_6 | Standard | 50.000 | 6.33 | 5995.736 | 16634.855 | 54.065 | 54.8 | 9.6 | NO | 0.997 | NO | bb |
| $\cdots \times$ | 7 180114M1_7 | Standard | 250.000 | 6.33 | 26309.844 | 16833.201 | 234.446 | 235.8 | -5.7 | NO | 0.997 | NO | db |
| 8 | 8 180114M1_8 | Standard | 500.000 | 6.33 | 53376.750 | 15673.545 | 510.830 | 506.3 | 1.3 | NO | 0.997 | NO | db |

## Compound name: PFHxDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.998421$
Calibration curve: -0.000730462 * $x^{\wedge} 2+0.939725$ * $x+0.0652426$
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 $_{\text {enc }}$ Conc. Flag  <br> 0.304 0.3 1.6 NO |  |  |  | CoD | CoD Flag $x=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 + | 1 180114M1_1 | Standard | 0.250 | 6.47 | 76.576 | 1259.462 |  |  |  |  | 0.998 | NO | bb |
| 2 | 2 180114M1_2 | Standard | 0.500 | 6.47 | 155.693 | 1324.833 | 0.588 | 0.6 | 11.2 | NO | 0.998 | NO | bb |
|  | 3 180114M1_3 | Standard | 1.000 | 6.46 | 292.503 | 1804.456 | 0.811 | 0.8 | -20.6 | NO | 0.998 | NO | bb |
| 4 सxate | 4 180114M1_4 | Standard | 2.000 | 6.46 | 603.794 | 1677.991 | 1.799 | 1.8 | -7.6 | NO | 0.998 | NO | bb |
|  | 5 180114M1_5 | Standard | 5.000 | 6.45 | 1786.034 | 1683.883 | 5.303 | 5.6 | 12.0 | NO | 0.998 | NO | bb |
| 6 - | 6 180114M1_6 | Standard | 10.000 | 6.45 | 3168.905 | 1592.045 | 9.952 | 10.6 | 6.1 | NO | 0.998 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 6.45 | 13665.340 | 1563.429 | 43.703 | 48.2 | -3.5 | NO | 0.998 | NO | bb |
| 8 - | $8180114 \mathrm{M1}$ _8 | Standard | 100.000 | 6.45 | 29897.400 | 1710.092 | 87.415 | 100.9 | 0.9 | NO | 0.998 | NO | bb |

Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: PFODA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999427$
Calibration curve: $-0.00146894{ }^{*} x^{\wedge} 2+0.987634 * x+-0.0538913$
Response type: Internal Std ( Ref 51 ), Area * ( IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

| d | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag | CoD | CoD Flag | $x$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 0.250 | 6.73 | 49.562 | 1259.462 | 0.197 | 0.3 | 1.6 | NO | 0.999 | NO | MM |
| 2 | 2 180114M1_2 | Standard | 0.500 | 6.73 | 110.328 | 1324.833 | 0.416 | 0.5 | -4.7 | NO | 0.999 | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 1.000 | 6.72 | 323.203 | 1804.456 | 0.896 | 1.0 | -3.7 | NO | 0.999 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 2.000 | 6.71 | 545.935 | 1677.991 | 1.627 | 1.7 | -14.7 | NO | 0.999 | NO | bb |
| 5 | 5 180114M1_5 | Standard | 5.000 | 6.71 | 1589.412 | 1683.883 | 4.719 | 4.9 | -2.6 | NO | 0.999 | NO | bb |
| 6 \% | 6 180114M1_6 | Standard | 10.000 | 6.71 | 3117.084 | 1592.045 | 9.790 | 10.1 | 1.2 | NO | 0.999 | NO | bb |
|  | 7 180114M1_7 | Standard | 50.000 | 6.71 | 14499.442 | 1563.429 | 46.371 | 50.9 | 1.7 | NO | 0.999 | NO | bb |
| 8 | $8180114 \mathrm{M1}$ _8 | Standard | 100.000 | 6.71 | 28614.531 | 1710.092 | 83.664 | 99.5 | -0.5 | NO | 0.999 | NO | bb |

## Compound name: N-MeFOSE

Correlation coefficient: $r=0.996233, r^{\wedge} 2=0.992481$
Calibration curve: 1.14152 * $x+-0.140648$
Response type: Internal Std (Ref 52 ), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None


Dataset:
U:IQ4.PRO|resultsI180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: N-EtFOSE

Correlation coefficient: $\mathrm{r}=0.999829, \mathrm{r}^{\wedge} 2=0.999658$
Calibration curve: 1.26852 * $x+-0.111988$
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 $\mathrm{x}=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , | 1 180114M1_1 | Standard | 1.250 | 6.59 | 68.801 | 6029.012 | 1.712 | 1.4 | 15.0 | NO | 1.000 | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 2.500 | 6.59 | 297.298 | 13869.331 | 3.215 | 2.6 | 4.9 | NO | 1.000 | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 5.000 | 6.58 | 612.203 | 15938.377 | 5.762 | 4.6 | -7.4 | NO | 1.000 | NO | bb |
| 4 | 4 180114M1_4 | Standard | 10.000 | 6.58 | 1271.909 | 15460.814 | 12.340 | 9.8 | -1.8 | NO | 1.000 | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 25.000 | 6.58 | 3414.765 | 16420.498 | 31.194 | 24.7 | -1.3 | NO | 1.000 | NO | bb |
| 6 | 6 180114M1_6 | Standard | 50.000 | 6.58 | 7046.067 | 15833.701 | 66.751 | 52.7 | 5.4 | NO | 1.000 | NO | bb |
| 7 7 | 7 180114M1_7 | Standard | 250.000 | 6.58 | 33836.492 | 15829.665 | 320.631 | 252.8 | 1.1 | NO | 1.000 | NO | bb |
| 8 | 8 180114M1_8 | Standard | 500.000 | 6.58 | 67335.586 | 16082.061 | 628.050 | 495.2 | -1.0 | NO | 1.000 | NO | bb |

## Compound name: 13C3-PFBA

Response Factor: 0.789861
RRF SD: 0.03458 , Relative SD: 4.37798
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 | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{5}$ | 1 180114M1_1 | Standard | 12.500 | 1.37 | 3626.099 | 4521.253 | 10.025 | 12.7 | 1.5 | NO | NO | bb |
|  | 2 180114M1_2 | Standard | 12.500 | 1.47 | 4142.458 | 5177.300 | 10.001 | 12.7 | 1.3 | NO | NO | db |
| 3 | 3 180114M1_3 | Standard | 12.500 | 1.48 | 4653.577 | 5888.580 | 9.878 | 12.5 | 0.1 | NO | NO | db |
| 4 | 4 180114M1_4 | Standard | 12.500 | 1.45 | 4077.286 | 5277.585 | 9.657 | 12.2 | -2.2 | NO | NO | db |
|  | 5 180114M1_5 | Standard | 12.500 | 1.47 | 4270.448 | 5737.021 | 9.305 | 11.8 | -5.8 | NO | NO | db |
|  | 6 180114M1_6 | Standard | 12.500 | 1.46 | 4150.907 | 5292.935 | 9.803 | 12.4 | -0.7 | NO | NO | db |
|  | 7 180114M1_7 | Standard | 12.500 | 1.45 | 4293.536 | 4986.576 | 10.763 | 13.6 | 9.0 | NO | NO | db |
|  | 8 180114M1_8 | Standard | 12.500 | 1.44 | 3527.442 | 4615.271 | 9.554 | 12.1 | -3.2 | NO | NO | bb |

Dataset: U:IQ4.PROIresultsi180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed:
Monday, January 15, 2018 14:59:57 Pacific Standard Time
Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 13C3-PFPeA

## Response Factor: 0.808707

RRF SD: 0.0430151, Relative SD: 5.31899
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 ${ }^{\text {ceexcluded }}$ | CoD Flag ${ }^{\text {a }}$ - excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 \% | 1 180114M1_1 | Standard | 12.500 | 2.27 | 7627.178 | 9210.972 | 10.351 | 12.8 | 2.4 | NO | NO | MMX |
| 2 ve | 2 180114M1_2 | Standard | 12.500 | 2.38 | 8186.502 | 10089.155 | 10.143 | 12.5 | 0.3 | NO | NO | bb |
|  | 3 180114M1_3 | Standard | 12.500 | 2.38 | 8937.973 | 11252.926 | 9.928 | 12.3 | -1.8 | NO | NO | bb |
| $4 \cdots \cdots$ | 4 180114M1_4 | Standard | 12.500 | 2.37 | 7741.137 | 10699.900 | 9.043 | 11.2 | -10.5 | NO | NO | bb |
| 5 \% | 5 180114M1_5 | Standard | 12.500 | 2.37 | 8589.766 | 9946.984 | 10.794 | 13.3 | 6.8 | NO | NO | bb |
| 6 | 6 180114M1_6 | Standard | 12.500 | 2.36 | 8111.649 | 9835.177 | 10.309 | 12.7 | 2.0 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 12.500 | 2.35 | 8074.398 | 9791.318 | 10.308 | 12.7 | 2.0 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 2.35 | 7382.000 | 9015.478 | 10.235 | 12.7 | 1.2 | NO | NO | bb |

Compound name: 13C3-PFBS
Response Factor: 0.096511
RRF SD: 0.00786237 , Relative SD: 8.1466
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area)
Curve type: RF

|  | \# Name ${ }^{\text {- }}$ | Type | Std. Conc | RT | Area | IS Area | Response | Conce \%Dev Conc. Flag |  |  | CoD CoDFlag exeluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180114M1_1 | Standard | 12.500 | 2.53 | 934.175 | 9210.972 | 1.268 | 13.1 | 5.1 | NO | NO | bb |
|  | 2 180114M1_2 | Standard | 12.500 | 2.62 | 890.167 | 10089.155 | 1.103 | 11.4 | -8.6 | NO | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 12.500 | 2.62 | 1034.113 | 11252.926 | 1.149 | 11.9 | -4.8 | NO | NO | bb |
|  | 4 180114M1_4 | Standard | 12.500 | 2.61 | 890.175 | 10699.900 | 1.040 | 10.8 | -13.8 | NO | NO | bb |
| 5 | 5 180114M1_5 | Standard | 12.500 | 2.61 | 1044.159 | 9946.984 | 1.312 | 13.6 | 8.8 | NO | NO | bb |
|  | 6 180114M1_6 | Standard | 12.500 | 2.60 | 970.681 | 9835.177 | 1.234 | 12.8 | 2.3 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 2.60 | 1017.077 | 9791.318 | 1.298 | 13.5 | 7.6 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 2.59 | 899.773 | 9015.478 | 1.248 | 12.9 | 3.4 | NO | NO | bb |

## Dataset:

U:IQ4.PROTresults180114M1180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 13C2-PFHxA

Response Factor: 0.633461
RRF SD: 0.0630324 , Relative SD: 9.95048
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 | Cone Flag | CoD CoD Flag x excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 . | 1 180114M1_1 | Standard | 5.000 | 3.00 | 2593.698 | 9210.972 | 3.520 | 5.6 | 11.1 | NO | NO | bb |
| 2 | 2 180114M1_2 | Standard | 5.000 | 3.03 | 2417.925 | 10089.155 | 2.996 | 4.7 | -5.4 | NO | NO | bb |
| $3 \times$ | 3 180114M1_3 | Standard | 5.000 | 3.04 | 2496.623 | 11252.926 | 2.773 | 4.4 | -12.4 | NO | NO | bb |
| 4 , | 4 180114M1_4 | Standard | 5.000 | 3.02 | 2285.827 | 10699.900 | 2.670 | 4.2 | -15.7 | NO | NO | bb |
| $5 \cdots$ | 5 180114M1_5 | Standard | 5.000 | 3.02 | 2659.516 | 9946.984 | 3.342 | 5.3 | 5.5 | NO | NO | bb |
| 6 Wema | 6 180114M1_6 | Standard | 5.000 | 3.02 | 2659.548 | 9835.177 | 3.380 | 5.3 | 6.7 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 5.000 | 3.01 | 2547.623 | 9791.318 | 3.252 | 5.1 | 2.7 | NO | NO | bb |
| $8 \times 4$ | 8 180114M1_8 | Standard | 5.000 | 3.01 | 2455.493 | 9015.478 | 3.405 | 5.4 | 7.5 | NO | NO | bb |

## Compound name: 13C4-PFHpA

Response Factor: 0.650534
RRF SD: 0.0664283 , Relative SD: 10.2113
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area)
Curve type: RF

| 7eres | \# Name . | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc, Flag | COD CoD Flag | $\mathrm{x}=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , | 1 180114M1_1 | Standard | 12.500 | 3.57 | 6881.557 | 9210.972 | 9.339 | 14.4 | 14.8 | NO | NO | bb |
| $2$ | 2 180114M1_2 | Standard | 12.500 | 3.58 | 5947.945 | 10089.155 | 7.369 | 11.3 | -9.4 | NO | NO | bb |
|  | 3 180114M1_3 | Standard | 12.500 | 3.57 | 6964.397 | 11252.926 | 7.736 | 11.9 | -4.9 | NO | NO | bb |
| \% | 4 180114M1_4 | Standard | 12.500 | 3.56 | 5740.771 | 10699.900 | 6.707 | 10.3 | -17.5 | NO | NO | bb |
| 5 | 5 180114M1_5 | Standard | 12.500 | 3.55 | 6804.188 | 9946.984 | 8.551 | 13.1 | 5.2 | NO | NO | bb |
|  | 6 180114M1_6 | Standard | 12.500 | 3.55 | 6758.660 | 9835.177 | 8.590 | 13.2 | 5.6 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 3.55 | 6731.813 | 9791.318 | 8.594 | 13.2 | 5.7 | NO | NO | bb |
| 8 8 | 8 180114M1_8 | Standard | 12.500 | 3.54 | 5891.095 | 9015.478 | 8.168 | 12.6 | 0.4 | NO | NO | bb |

## Dataset: <br> U:IQ4.PRO|results180114M11180114M1-crv.qld <br> Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time <br> Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 1802-PFHxS

Response Factor: 0.325559
RRF SD: 0.0357919 , Relative SD: 10.994
Response type: Internal Std (Ref 56 ), Area * (IS Conc. / IS Area)
Curve type: RF

| Sm | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc ${ }_{\text {Slat }}$ | \%Dev | Conc. Flag | CoD CoD Flag $\quad \mathrm{x}=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180114M1_1 | Standard | 12.500 | 3.71 | 737.179 | 2175.515 | 4.236 | 13.0 | 4.1 | NO | NO | MM |
| 2 为 | 2 180114M1_2 | Standard | 12.500 | 3.71 | 711.707 | 2176.997 | 4.087 | 12.6 | 0.4 | NO | NO | MM |
| 3 | 3 180114M1_3 | Standard | 12.500 | 3.70 | 884.671 | 3018.722 | 3.663 | 11.3 | -10.0 | NO | NO | MM |
|  | 4 180114M1_4 | Standard | 12.500 | 3.70 | 730.128 | 2390.356 | 3.818 | 11.7 | -6.2 | NO | NO | MM |
| 5 arem | 5 180114M1_5 | Standard | 12.500 | 3.69 | 723.937 | 2228.038 | 4.062 | 12.5 | -0.2 | NO | NO | MM |
| 6 | 6 180114M1_6 | Standard | 12.500 | 3.69 | 799.959 | 2721.157 | 3.675 | 11.3 | -9.7 | NO | NO | bb |
| 7. | 7 180114M1_7 | Standard | 12.500 | 3.68 | 918.361 | 2269.660 | 5.058 | 15.5 | 24.3 | NO | NO | bb |
| 8 - | 8 180114M1_8 | Standard | 12.500 | 3.68 | 725.783 | 2291.941 | 3.958 | 12.2 | -2.7 | NO | NO | MM |

## Compound name: 13C2-6:2 FTS <br> Response Factor: 0.170535

RRF SD: 0.0270675, Relative SD: 15.8721
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 Fl | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , | 1 180114M1_1 | Standard | 12.500 | 4.02 | 1996.372 | 10472.973 | 2.383 | 14.0 | 11.8 | NO | NO | bb |
|  | 2 180114M1_2 | Standard | 12.500 | 4.03 | 1495.703 | 9606.144 | 1.946 | 11.4 | -8.7 | NO | NO | bb |
| 3 | 3 180114M1_3 | Standard | 12.500 | 4.02 | 1626.136 | 11842.083 | 1.716 | 10.1 | -19.5 | NO | NO | bb |
| 4 | 4 180114M1_4 | Standard | 12.500 | 4.01 | 1735.917 | 9795.903 | 2.215 | 13.0 | 3.9 | NO | NO | bb |
|  | 5 180114M1_5 | Standard | 12.500 | 4.00 | 1683.943 | 10407.573 | 2.022 | 11.9 | -5.1 | NO | NO | bb |
| 6 | 6 180114M1_6 | Standard | 12.500 | 4.00 | 1511.655 | 10876.848 | 1.737 | 10.2 | -18.5 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 12.500 | 3.99 | 2228.404 | 10351.587 | 2.691 | 15.8 | 26.2 | NO | NO | bb |
| 8 - | $8180114 \mathrm{M1}$ _ 8 | Standard | 12.500 | 3.99 | 1818.953 | 9707.305 | 2.342 | 13.7 | 9.9 | NO | NO | bb |

## Compound name: 13C2-PFOA

Response Factor: 0.903494
RRF SD: 0.0722223 , Relative SD: 7.99366
Response type: Internal Std ( Ref 57 ), Area * (IS Conc. / IS Area )
Curve type: RF


## Compound name: 13C5-PFNA

Response Factor: 0.843898
RRF SD: 0.0785728, Relative SD: 9.3107
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 | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - ${ }^{\text {a }}$ | 1 180114M1_1 | Standard | 12.500 | 4.58 | 10672.131 | 12992.061 | 10.268 | 12.2 | -2.7 | NO | NO | bb |
|  | 2 180114M1_2 | Standard | 12.500 | 4.58 | 7959.980 | 9578.678 | 10.388 | 12.3 | -1.5 | NO | NO | bb |
| , \% | 3 180114M1_3 | Standard | 12.500 | 4.57 | 9755.683 | 10428.236 | 11.694 | 13.9 | 10.9 | NO | NO | bb |
| 4 | 4 180114M1_4 | Standard | 12.500 | 4.56 | 8907.903 | 11171.644 | 9.967 | 11.8 | -5.5 | NO | NO | bb |
| 5 | 5 180114M1_5 | Standard | 12.500 | 4.56 | 8863.639 | 11839.788 | 9.358 | 11.1 | -11.3 | NO | NO | bb |
| 6 | 6 180114M1_6 | Standard | 12.500 | 4.55 | 8177.809 | 10148.734 | 10.072 | 11.9 | -4.5 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 12.500 | 4.55 | 10143.640 | 10483.977 | 12.094 | 14.3 | 14.7 | NO | NO | bb |
| 8 | $8180114 \mathrm{M1}$ _ 8 | Standard | 12.500 | 4.54 | 6660.756 | 8460.493 | 9.841 | 11.7 | -6.7 | NO | NO | bbX |

Dataset: U:IQ4.PROIresults180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

Compound name: 13C8-PFOSA
Response Factor: 0.165457
RRF SD: 0.0245251 , Relative SD: 14.8226
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area)
Curve type: RF

| 8 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag Cobs | CoD Flag manextuded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 1 180114M1_1 | Standard | 12.500 | 4.65 | 2131.943 | 12194.069 | 2.185 | 13.2 | 5.7 | NO | NO | MMX |
| 2 | 2 180114M1_2 | Standard | 12.500 | 4.65 | 1705.021 | 10256.481 | 2.078 | 12.6 | 0.5 | NO | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 12.500 | 4.64 | 1727.581 | 11023.619 | 1.959 | 11.8 | -5.3 | NO | NO | bb |
| $4 \leq$ | 4 180114M1_4 | Standard | 12.500 | 4.63 | 1645.980 | 12061.290 | 1.706 | 10.3 | -17.5 | NO | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 12.500 | 4.62 | 1691.695 | 10339.285 | 2.045 | 12.4 | -1.1 | NO | NO | bb |
| 6 \%may | 6 180114M1_6 | Standard | 12.500 | 4.62 | 1621.123 | 10194.419 | 1.988 | 12.0 | -3.9 | NO | NO | bb |
| 7 \% | 7 180114M1_7 | Standard | 12.500 | 4.61 | 1872.306 | 8886.922 | 2.634 | 15.9 | 27.3 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 4.61 | 1510.559 | 9725.023 | 1.942 | 11.7 | -6.1 | NO | NO | bbX |

Compound name: 13C8-PFOS
Response Factor: 0.920205
RRF SD: 0.0697273, Relative SD: 7.57736
Response type: Internal Std ( Ref 59 ), Area * (IS Conc. / IS Area )
Curve type: RF

|  | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Cone. | \%Dev | Conc. Flag | COD CoD F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 -4x | 1 180114M1_1 | Standard | 12.500 | 4.66 | 2577.436 | 2969.778 | 10.849 | 11.8 | -5.7 | NO | NO | MM |
|  | 2 180114M1_2 | Standard | 12.500 | 4.67 | 2178.322 | 2439.645 | 11.161 | 12.1 | -3.0 | NO | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 12.500 | 4.66 | 2129.911 | 2524.730 | 10.545 | 11.5 | -8.3 | NO | NO | bb |
| 4 , 3 为 | 4 180114M1_4 | Standard | 12.500 | 4.65 | 2219.514 | 2586.834 | 10.725 | 11.7 | -6.8 | NO | NO | bb |
| 5 - ${ }^{\text {a }}$ dex | 5 180114M1_5 | Standard | 12.500 | 4.64 | 2380.628 | 2405.455 | 12.371 | 13.4 | 7.5 | NO | NO | bb |
| 6 U | 6 180114M1_6 | Standard | 12.500 | 4.63 | 2213.260 | 2234.363 | 12.382 | 13.5 | 7.6 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 4.63 | 2409.764 | 2412.649 | 12.485 | 13.6 | 8.5 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 4.62 | 2020.897 | 2545.754 | 9.923 | 10.8 | -13.7 | NO | NO | bbX |

Dataset: U:\Q4.PRO|results|180114M1\180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed:
Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 13C2-PFDA

Response Factor: 1.04437
RRF SD: 0.18473, Relative SD: 17.6882
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 | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - 5 | 1 180114M1_1 | Standard | 12.500 | 4.97 | 10273.528 | 9030.209 | 14.221 | 13.6 | 8.9 | NO | NO | bb |
| $2 \quad 4 \mathrm{~m}$ | 2 180114M1_2 | Standard | 12.500 | 4.98 | 7666.422 | 6290.355 | 15.234 | 14.6 | 16.7 | NO | NO | bb |
| 3. | 3 180114M1_3 | Standard | 12.500 | 4.96 | 8011.753 | 7754.163 | 12.915 | 12.4 | -1.1 | NO | NO | bb |
| $4 \cdots$ | 4 180114M1_4 | Standard | 12.500 | 4.96 | 8420.399 | 9446.257 | 11.143 | 10.7 | -14.6 | NO | NO | bb |
| 5 atat | 5 180114M1_5 | Standard | 12.500 | 4.95 | 7078.627 | 8319.136 | 10.636 | 10.2 | -18.5 | NO | NO | bb |
| 6 | 6 180114M1_6 | Standard | 12.500 | 4.95 | 7007.409 | 7269.614 | 12.049 | 11.5 | -7.7 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 4.94 | 7914.971 | 5767.910 | 17.153 | 16.4 | 31.4 | NO | NO | bb |
| 8 , | 8 180114M1_8 | Standard | 12.500 | 4.94 | 5872.147 | 6621.671 | 11.085 | 10.6 | -15.1 | NO | NO | bb |

Compound name: 13C2-8:2 FTS
Response Factor: 0.0865412
RRF SD: 0.0116119 , Relative SD: 13.4178
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 | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - tay | 1 180114M1_1 | Standard | 12.500 | 4.93 | 1619.860 | 9210.972 | 2.198 | 25.4 | 103.2 | NO | NO | bbX |
| 2- | 2 180114M1_2 | Standard | 12.500 | 4.93 | 684.343 | 10089.155 | 0.848 | 9.8 | -21.6 | NO | NO | MM |
| - ${ }^{4}$ | 3 180114M1_3 | Standard | 12.500 | 4.92 | 939.969 | 11252.926 | 1.044 | 12.1 | -3.5 | NO | NO | MM |
|  | 4 180114M1_4 | Standard | 12.500 | 4.91 | 1008.736 | 10699.900 | 1.178 | 13.6 | 8.9 | NO | NO | bb |
|  | 5 180114M1_5 | Standard | 12.500 | 4.90 | 897.015 | 9946.984 | 1.127 | 13.0 | 4.2 | NO | NO | bb |
| 6 | 6 180114M1_6 | Standard | 12.500 | 4.90 | 952.935 | 9835.177 | 1.211 | 14.0 | 12.0 | NO | NO | MM |
| 7 | 7 180114M1_7 | Standard | 12.500 | 4.89 | 1216.973 | 9791.318 | 1.554 | 18.0 | 43.6 | NO | NO | bbX |
| 8 | 8 180114M1_8 | Standard | 12.500 | 4.89 | 1130.511 | 9015.478 | 1.567 | 18.1 | 44.9 | NO | NO | bbX |

Dataset: U:IQ4.PRO|results1180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: d3-N-MeFOSAA

## Response Factor: 0.227278

RRF SD: 0.0360068 , Relative SD: 15.8426
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area)
Curve type: RF

| 2dim | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Cone \% $\%$ Dev |  | Conc. Flag | CoD $\mathrm{CoD} \mathrm{Flag}^{\mathrm{E}} \mathrm{x}=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180114M1_1 | Standard | 12.500 | 5.12 | 2386.166 | 12194.069 | 2.446 | 10.8 | -13.9 | NO | NO | bb |
| 2 为 | 2 180114M1_2 | Standard | 12.500 | 5.13 | 2679.466 | 10256.481 | 3.266 | 14.4 | 14.9 | NO | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 12.500 | 5.12 | 2887.384 | 11023.619 | 3.274 | 14.4 | 15.2 | NO | NO | bb |
| 4 | 4 180114M1_4 | Standard | 12.500 | 5.10 | 2460.522 | 12061.290 | 2.550 | 11.2 | -10.2 | NO | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 12.500 | 5.10 | 2643.908 | 10339.285 | 3.196 | 14.1 | 12.5 | NO | NO. | bb |
| 6 - Mspay | 6 180114M1_6 | Standard | 12.500 | 5.09 | 1886.944 | 10194.419 | 2.314 | 10.2 | -18.6 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 5.09 | 2602.104 | 8886.922 | 3.660 | 16.1 | 28.8 | NO | NO | bbX |
| 8 - | 8180114 M 1 _ 8 | Standard | 12.500 | 5.08 | 2276.305 | 9725.023 | 2.926 | 12.9 | 3.0 | NO | NO | bbX |

Compound name: d5-N-EtFOSAA
Response Factor: 0.313398
RRF SD: 0.0570367, Relative SD: 18.1995
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 Citue CoD | D Flag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 12.500 | 5.30 | 2456.595 | 12194.069 | 2.518 | 8.0 | -35.7 | NO | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 12.500 | 5.31 | 3198.114 | 10256.481 | 3.898 | 12.4 | -0.5 | NO | NO | MM |
| 3 arame | 3 180114M1_3 | Standard | 12.500 | 5.29 | 3229.057 | 11023.619 | 3.662 | 11.7 | -6.5 | NO | NO | MM |
|  | 4 180114M1_4 | Standard | 12.500 | 5.29 | 2758.213 | 12061.290 | 2.859 | 9.1 | -27.0 | NO | NO | MM |
| 5 | 5 180114M1_5 | Standard | 12.500 | 5.28 | 3064.781 | 10339.285 | 3.705 | 11.8 | -5.4 | NO | NO | MM |
| $6^{-3 w h t y ~}$ | 6 180114M1_6 | Standard | 12.500 | 5.28 | 3574.455 | 10194.419 | 4.383 | 14.0 | 11.9 | NO | NO | MM |
| 7 \% | 7 180114M1_7 | Standard | 12.500 | 5.27 | 3676.360 | 8886.922 | 5.171 | 16.5 | 32.0 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 5.27 | 2913.941 | 9725.023 | 3.745 | 12.0 | -4.4 | NO | NO | MM |

Vista Analytical Laboratory
Dataset:
U:IQ4.PROIresults190114M11180114M1-crv.ald
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed:
Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 13C2-PFUdA

Response Factor: 0.89925
RRF SD: 0.102619 , Relative SD: 11.4116
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area
Curve type: RF

|  | \# Name | Type | Std. Conc | RT | Area | IS Area | Respanse | Conc | \%Dev | Conc. Flag | CoD CoD Flag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Facmate | 1 180114M1_1 | Standard | 12.500 | 5.32 | 11952.269 | 12194.069 | 12.252 | 13.6 | 9.0 | NO | NO | bb |
| $2$ | 2 180114M1_2 | Standard | 12.500 | 5.32 | 8142.762 | 10256.481 | 9.924 | 11.0 | -11.7 | NO | NO | bb |
| $3$ | 3 180114M1_3 | Standard | 12.500 | 5.31 | 9973.248 | 11023.619 | 11.309 | 12.6 | 0.6 | NO | NO | bb |
| $4 \cdots$ | 4 180114M1_4 | Standard | 12.500 | 5.30 | 9333.110 | 12061.290 | 9.673 | 10.8 | -13.9 | NO | NO | bb |
| 5 | 5 180114M1_5 | Standard | 12.500 | 5.30 | 9466.337 | 10339.285 | 11.445 | 12.7 | 1.8 | NO | NO | bb |
| 6 \%... | $6180114 \mathrm{M1} \mathrm{\_6}$ | Standard | 12.500 | 5.30 | 9079.952 | 10194.419 | 11.133 | 12.4 | -1.0 | NO | NO | bb |
| 7 \% | 7 180114M1_7 | Standard | 12.500 | 5.29 | 9698.532 | 8886.922 | 13.642 | 15.2 | 21.4 | NO | NO | bb |
|  | 8 180114M1_8 | Standard | 12.500 | 5.28 | 8206.241 | 9725.023 | 10.548 | 11.7 | -6.2 | NO | NO | bb |

## Compound name: 13C2-PFDoA

Response Factor: 0.64508
RRF SD: 0.0871793 , Relative SD: 13.5145
Response type: Internal Std (Ref 61), Area * (IS Conc. / IS Area )
Curve type: RF


Dataset:
U:IQ4.PROIresults1180114M11180114M1-crv.qld
Last Altered:
Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: d3-N-MeFOSA

Response Factor: 0.121935
RRF SD: 0.0130269 , Relative SD: 10.6835
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area)
Curve type: RF


## Compound name: 13C2-PFTeDA

Response Factor: 0.289852
RRF SD: 0.05135 , Relative SD: 17.716
Response type: Internal Std ( Ref 61), Area * (IS Conc. / IS Area)
Curve type: RF

| Weray Name - Type |  |  | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. Flag CoD | CoD Flag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , | 1 180114M1_1 | Standard | 12.500 | 6.12 | 2445.649 | 12194.069 | 2.507 | 8.6 | -30.8 | NO | NO | bb |
| 2 | 2 180114M1_2 | Standard | 12.500 | 6.12 | 2977.955 | 10256.481 | 3.629 | 12.5 | 0.2 | NO | NO | bb |
| 3 ack | 3 180114M1_3 | Standard | 12.500 | 6.11 | 3643.180 | 11023.619 | 4.131 | 14.3 | 14.0 | NO | NO | bb |
|  | 4 180114M1_4 | Standard | 12.500 | 6.10 | 3315.638 | 12061.290 | 3.436 | 11.9 | -5.2 | NO | NO | bb |
| $5$ <br> 3 | 5 180114M1_5 | Standard | 12.500 | 6.10 | 3058.884 | 10339.285 | 3.698 | 12.8 | 2.1 | NO | NO | bb |
|  | 6 180114M1_6 | Standard | 12.500 | 6.09 | 2549.694 | 10194.419 | 3.126 | 10.8 | -13.7 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 12.500 | 6.09 | 3307.861 | 8886.922 | 4.653 | 16.1 | 28.4 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 6.09 | 2959.760 | 9725.023 | 3.804 | 13.1 | 5.0 | NO | NO | bb |

## Dataset: U:IQ4.PRO|results1180114M11180114M1-crv.qld

Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed:
Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: d5-N-ETFOSA

Response Factor: 0.131454
RRF SD: 0.0147792 , Relative SD: 11.2428
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 180114M1_1 | Standard | 150.000 | 6.35 | 7003.886 | 12194.069 | 7.180 | 54.6 | -63.6 | NO | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 150.000 | 6.36 | 14916.356 | 10256.481 | 18.179 | 138.3 | -7.8 | NO | NO | bb |
| 3 - | 3 180114M1_3 | Standard | 150.000 | 6.35 | 17570.045 | 11023.619 | 19.923 | 151.6 | 1.0 | NO | NO | bb |
| 4 - | 4 180114M1_4 | Standard | 150.000 | 6.35 | 15895.931 | 12061.290 | 16.474 | 125.3 | -16.5 | NO | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 150.000 | 6.35 | 15906.663 | 10339.285 | 19.231 | 146.3 | -2.5 | NO | NO | bb |
| $6 \ldots$ | $6180114 \mathrm{M1} 6$ | Standard | 150.000 | 6.35 | 16634.855 | 10194.419 | 20.397 | 155.2 | 3.4 | NO | NO | bb |
| 7 des | 7 180114M1_7 | Standard | 150.000 | 6.34 | 16833.201 | 8886.922 | 23.677 | 180.1 | 20.1 | NO | NO | bb |
| 8 - ${ }^{\text {a }}$ | 8 180114M1_8 | Standard | 150.000 | 6.34 | 15673.545 | 9725.023 | 20.146 | 153.3 | 2.2 | NO | NO | bb |

## Compound name: 13C2-PFHxDA

Response Factor: 0.376896
RRF SD: 0.0631103, Relative SD: 16.7447
Response type: Internal Std ( Ref 61 ), Area * ( IS Conc. / IS Area )
Curve type: RF

| 3 | \# Name | ${ }^{3}$ Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Conc. Flag | CoD CoD Flag | $\mathrm{x}=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180114M1_1 | Standard | 5.000 | 6.47 | 1259.462 | 12194.069 | 1.291 | 3.4 | -31.5 | NO | NO | bb |
| $2$ | 2 180114M1_2 | Standard | 5.000 | 6.47 | 1324.833 | 10256.481 | 1.615 | 4.3 | -14.3 | NO | NO | bb |
| 3 为 | 3 180114M1_3 | Standard | 5.000 | 6.46 | 1804.456 | 11023.619 | 2.046 | 5.4 | 8.6 | NO | NO | bb |
| 4 | 4 180114M1_4 | Standard | 5.000 | 6.46 | 1677.991 | 12061.290 | 1.739 | 4.6 | -7.7 | NO | NO | bb |
| 5 - 5 ded | 5 180114M1_5 | Standard | 5.000 | 6.46 | 1683.883 | 10339.285 | 2.036 | 5.4 | 8.0 | NO | NO | bb |
| 6 \% | 6 180114M1_6 | Standard | 5.000 | 6.45 | 1592.045 | 10194.419 | 1.952 | 5.2 | 3.6 | NO | NO | bb |
| 7 - | 7 180114M1_7 | Standard | 5.000 | 6.45 | 1563.429 | 8886.922 | 2.199 | 5.8 | 16.7 | NO | NO | bb |
| $8{ }^{\text {datam}}$ | 8 180114M1_8 | Standard | 5.000 | 6.45 | 1710.092 | 9725.023 | 2.198 | 5.8 | 16.6 | NO | NO | bb |

## Dataset:

U:IQ4.PRO|results1180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
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Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: d7-N-MeFOSE

Response Factor: 0.139595
RRF SD: 0.0149078 , Relative SD: 10.6793
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 180114M1_1 | Standard | 150.000 | 6.43 | 7869.949 | 12194.069 | 8.067 | 57.8 | -61.5 | NO | NO | bbX |
| 2 | 2 180114M1_2 | Standard | 150.000 | 6.43 | 15028.852 | 10256.481 | 18.316 | 131.2 | -12.5 | NO | NO | bb |
| 3 | 3 180114M1_3 | Standard | 150.000 | 6.43 | 17803.043 | 11023.619 | 20.187 | 144.6 | -3.6 | NO | NO | bb |
|  | 4 180114M1_4 | Standard | 150.000 | 6.42 | 18520.922 | 12061.290 | 19.195 | 137.5 | -8.3 | NO | NO | bb |
| 5 | 5.180114M1_5 | Standard | 150.000 | 6.42 | 18115.793 | 10339.285 | 21.902 | 156.9 | 4.6 | NO | NO | bb |
| 6 , | 6 180114M1_6 | Standard | 150.000 | 6.42 | 16859.029 | 10194.419 | 20.672 | 148.1 | -1.3 | NO | NO | bb |
|  | 7 180114M1_7 | Standard | 150.000 | 6.42 | 17944.828 | 8886.922 | 25.240 | 180.8 | 20.5 | NO | NO | bb |
| 8 等 | 8 180114M1_8 | Standard | 150.000 | 6.42 | 16387.014 | 9725.023 | 21.063 | 150.9 | 0.6 | NO | NO | bb |

## Compound name: d9-N-EtFOSE

## Response Factor: 0.126859

RRF SD: 0.0145207 , Relative SD: 11.4463
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-mater | 1 180114M1_1 | Standard | 150.000 | 6.58 | 6029.012 | 12194.069 | 6.180 | 48.7 | -67.5 | NO | NO | bbX |
| 2 tamem | 2 180114M1_2 | Standard | 150.000 | 6.58 | 13869.331 | 10256.481 | 16.903 | 133.2 | -11.2 | NO | NO | bb |
| 3 | 3 180114M1_3 | Standard | 150.000 | 6.57 | 15938.377 | 11023.619 | 18.073 | 142.5 | -5.0 | NO | NO | bb |
| 4 - | 4 180114M1_4 | Standard | 150.000 | 6.57 | 15460.814 | 12061.290 | 16.023 | 126.3 | -15.8 | NO | NO | bb |
| 5 - | 5 180114M1_5 | Standard | 150.000 | 6.57 | 16420.498 | 10339.285 | 19.852 | 156.5 | 4.3 | NO | NO | bb |
| 6 mmonmax | 6 180114M1_6 | Standard | 150.000 | 6.57 | 15833.701 | 10194.419 | 19.415 | 153.0 | 2.0 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 150.000 | 6.57 | 15829.665 | 8886.922 | 22.265 | 175.5 | 17.0 | NO | NO | bb |
| 8 \% | 8 180114M1_8 | Standard | 150.000 | 6.57 | 16082.061 | 9725.023 | 20.671 | 162.9 | 8.6 | NO | NO | bb |

Last Altered:
Printed:
Monday, January 15, 2018 14:59:57 Pacific Standard Time Monday, January 15, 2018 15:01:01 Pacific Standard Time

## 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 | cluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180114M1_1 | Standard | 12.500 | 1.37 | 4521.253 | 4521.253 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 | 2 180114M1_2 | Standard | 12.500 | 1.48 | 5177.300 | 5177.300 | 12.500 | 12.5 | 0.0 | NO | NO | db |
| 3 - | 3 180114M1_3 | Standard | 12.500 | 1.48 | 5888.580 | 5888.580 | 12.500 | 12.5 | 0.0 | NO | NO | db |
|  | 4 180114M1_4 | Standard | 12.500 | 1.45 | 5277.585 | 5277.585 | 12.500 | 12.5 | 0.0 | NO | NO | db |
| 5 | 5 180114M1_5 | Standard | 12.500 | 1.47 | 5737.021 | 5737.021 | 12.500 | 12.5 | 0.0 | NO | NO | db |
| 6 | 6 180114M1_6 | Standard | 12.500 | 1.45 | 5292.935 | 5292.935 | 12.500 | 12.5 | 0.0 | NO | NO | db |
|  | 7 180114M1_7 | Standard | 12.500 | 1.45 | 4986.576 | 4986.576 | 12.500 | 12.5 | 0.0 | NO | NO | db |
| 8 | 8 180114M1_8 | Standard | 12.500 | 1.44 | 4615.271 | 4615.271 | 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


Dataset: U:IQ4.PROIresults180114M11180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Compound name: 13C3-PFHxS

## Response Factor: 1

RRF SD: 4.19625e-017, Relative SD: $4.19625 \mathrm{e}-015$
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 * $\mathrm{x}=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1 \sim$ | 1 180114M1_1 | Standard | 12.500 | 3.71 | 2175.515 | 2175.515 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 - | 2 180114M1_2 | Standard | 12.500 | 3.71 | 2176.997 | 2176.997 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 | 3 180114M1_3 | Standard | 12.500 | 3.70 | 3018.722 | 3018.722 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 -may | 4 180114M1_4 | Standard | 12.500 | 3.70 | 2390.356 | 2390.356 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 5 180114M1_5 | Standard | 12.500 | 3.69 | 2228.038 | 2228.038 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 \% ${ }^{\text {a }}$ | 6 180114M1_6 | Standard | 12.500 | 3.68 | 2721.157 | 2721.157 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 . | 7 180114M1_7 | Standard | 12.500 | 3.68 | 2269.660 | 2269.660 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 3.68 | 2291.941 | 2291.941 | 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

| - Mexter | \# Name | Type | Std. Conc | RT | Area | IS Area | Response |  |  | nc. Flag | CoD ${ }^{\text {maxa }}$ CoD | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 them | 1 180114M1_1 | Standard | 12.500 | 4.11 | 10472.973 | 10472.973 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 | 2 180114M1_2 | Standard | 12.500 | 4.11 | 9606.144 | 9606.144 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 -6ay | 3 180114M1_3 | Standard | 12.500 | 4.10 | 11842.083 | 11842.083 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 , | 4 180114M1_4 | Standard | 12.500 | 4.09 | 9795.903 | 9795.903 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 | 5 180114M1_5 | Standard | 12.500 | 4.08 | 10407.573 | 10407.573 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 6 180114M1_6 | Standard | 12.500 | 4.08 | 10876.848 | 10876.848 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5x+3 | 7 180114M1_7 | Standard | 12.500 | 4.07 | 10351.587 | 10351.587 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 | 8 180114M1_8 | Standard | 12.500 | 4.07 | 9707.305 | 9707.305 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

Dataset:
U:\Q4.PRO\results\180114M1\180114M1-crv.qld
$\begin{array}{ll}\text { Last Altered: } & \text { Monday, January 15, } 2018 \text { 14:59:57 Pacific Standard Time } \\ \text { Printed: } & \text { Monday, January 15, } 2018 \text { 15:01:01 Pacific Standard Time }\end{array}$

Compound name: 13C9-PFNA
Response Factor: 1
RRF SD: 5.93439e-017, Relative SD: 5.93439e-015
Response type: Internal Std (Ref 58 ), Area * (IS Conc. / IS Area)
Curve type: RF

|  | \# Name ${ }^{\text {amamem }}$ |  | Std. Conc |  | Area | IS Area | Response Conc \% \% Dev Conc. Flag |  |  |  | CoD Flag x=excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \& | 1 180114M1_1 | Standard | 12.500 | 4.58 | 12992.061 | 12992.061 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 2 180114M1_2 | Standard | 12.500 | 4.59 | 9578.678 | 9578.678 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 . ${ }^{\text {a }}$ | 3 180114M1_3 | Standard | 12.500 | 4.57 | 10428.236 | 10428.236 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 - | 4 180114M1_4 | Standard | 12.500 | 4.56 | 11171.644 | 11171.644 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 5 180114M1_5 | Standard | 12.500 | 4.56 | 11839.788 | 11839.788 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 6 180114M1_6 | Standard | 12.500 | 4.55 | 10148.734 | 10148.734 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 C | 7 180114M1_7 | Standard | 12.500 | 4.54 | 10483.977 | 10483.977 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 | 8180114 M 1 _8 | Standard | 12.500 | 4.54 | 8460.493 | 8460.493 | 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 | 18 Area | Response | Conc |  | nc. | Nom | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - ${ }^{\text {a }}$ | 1 180114M1_1 | Standard | 12.500 | 4.66 | 2969.778 | 2969.778 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 2-4 | 2 180114M1_2 | Standard | 12.500 | 4.67 | 2439.645 | 2439.645 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 3 180114M1_3 | Standard | 12.500 | 4.66 | 2524.730 | 2524.730 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 4 180114M1_4 | Standard | 12.500 | 4.65 | 2586.834 | 2586.834 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $5)^{2}$, | 5 180114M1_5 | Standard | 12.500 | 4.64 | 2405.455 | 2405.455 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 - ${ }^{\text {a }}$ - | 6 180114M1_6 | Standard | 12.500 | 4.63 | 2234.363 | 2234.363 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 . | 7 180114M1_7 | Standard | 12.500 | 4.63 | 2412.649 | 2412.649 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 8. | 8 180114M1_8 | Standard | 12.500 | 4.63 | 2545.754 | 2545.754 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

Dataset: U:IQ4.PRO|results1180114M1180114M1-crv.qld
Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time
Printed: Monday, January 15, 2018 15:01:01 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


## 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 | A Std. Conc | * RT | Area | IS Area | Response | Conc. | \%Dev | nc. F | CoDela | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Waxam | 1 180114M1_1 | Standard | 12.500 | 5.32 | 12194.069 | 12194.069 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 2- | 2 180114M1_2 | Standard | 12.500 | 5.32 | 10256.481 | 10256.481 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $3 \times 1+1$ | 3 180114M1_3 | Standard | 12.500 | 5.31 | 11023.619 | 11023.619 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 | 4 180114M1_4 | Standard | 12.500 | 5.30 | 12061.290 | 12061.290 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 , | 5 180114M1_5 | Standard | 12.500 | 5.30 | 10339.285 | 10339.285 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 : 4 4 | 6 180114M1_6 | Standard | 12.500 | 5.29 | 10194.419 | 10194.419 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 | 7 180114M1_7 | Standard | 12.500 | 5.29 | 8886.922 | 8886.922 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 - | 8 180114M1_8 | Standard | 12.500 | 5.28 | 9725.023 | 9725.023 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

## Dataset: U:\Q4.PRO\results\180114M1\180114M1-crv.qld <br> Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time <br> Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

## Method: U:IQ4.PROMMethDBIPFAS_FULL_80C_010818D.mdb 14 Jan 2018 14:14:32

## Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS_Q4_01-14-18-FULL.cdb 15 Jan 2018 14:59:56

Name: 180114M1_1, Date: 14-Jan-2018, Time: 13:30:44, ID: ST180114M1-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606

| \# + . Name |  | CoD | CoD Flag | \%RSD |
| :---: | :---: | :---: | :---: | :---: |
| 14.1 PFBA |  | 0.9939 | NO |  |
| 2.2 PFPeA |  | 0.9967 | NO |  |
| 3 PFBS |  | 0.9983 | NO |  |
| NTMerati 4 PFHxA |  | 0.9989 | NO |  |
| 5 - 5 PFHpA |  | 0.9929 | NO |  |
| Wexte 6 L-PFHxS |  | 0.9900 | NO |  |
|  |  | 0.9957 | NO |  |
| 4-3ys. 9 L-PFOA |  | 0.9993 | NO |  |
| 11 PFHpS |  | 0.9995 | NO |  |
| 10 - 12 PFNA |  | 0.9911 | NO |  |
| 11.13 PFOSA |  | 0.9943 | NO |  |
| 12 L-PFOS |  | 0.9923 | NO |  |
| 13.16 PFDA |  | 0.9930 | NO |  |
| 14 17 8:2 FTS |  | 0.9923 | NO |  |
| 15 - 18 N-MeFOSAA |  | 0.9969 | NO |  |
| 16 N-EtFOSAA |  | 0.9919 | NO |  |
| 17.20 PFUdA |  | 0.9916 | NO |  |
| 18 U- 21 PFDS |  | 0.9936 | NO |  |
| 19 22 PFDoA |  | 0.9965 | NO |  |
| 20 - 23 N-MeFOSA |  | 0.9984 | NO |  |
| 21 24 PFTrDA |  | 0.9970 | NO |  |
| 22.425 PFTeDA |  | 0.9987 | NO |  |
| 23 26 N-EtFOSA |  | 0.9974 | NO |  |
| 24 27 PFHxDA |  | 0.9984 | NO |  |
| 25 * 28 PFODA |  | 0.9994 | NO |  |
| 26. |  | 0.9925 | NO |  |
| 27 didy 30 N-EtFOSE |  | 0.9997 | NO |  |
| 28 31 13C3-PFBA |  |  | NO | 4.378 |
| 29 32 13C3-PFPeA |  |  | NO | 5.319 |
| 30 - $3313 \mathrm{C} 3-\mathrm{PFBS}$ |  |  | NO | 8.147 |
| 31 Wort $3413 \mathrm{C} 2-\mathrm{PFHxA}$ |  |  | NO | 9.950 |

## Dataset:

U:IQ4.PROIresultss180114M11180114M1-crv.qld

Last Altered: Monday, January 15, 2018 14:59:57 Pacific Standard Time Printed: Monday, January 15, 2018 15:01:01 Pacific Standard Time

Name: 180114M1_1, Date: 14-Jan-2018, Time: 13:30:44, ID: ST180114M1-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606


| Last Altered: | Monday, January 15, 2018 15:03:31 Pacific Standard Time |
| :--- | :--- |
| Printed: | Monday, January 15, 2018 15:07:41 Pacific Standard Time |

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818D.mdb 15 Jan 2018 12:58:53 Calibration: 15 Jan 2018 15:03:31

## Compound name: PFBA

| Name | ID | Acq. Date | Acq.Time |
| :---: | :---: | :---: | :---: |
| - 180114M1_1 | ST180114M1-1 PFC CS-2 17L2606 | 14-Jan-18 | 13:30:44 |
| 2 180114M1_2 | ST180114M1-2 PFC CS-1 17L2607 | 14-Jan-18 | 13:42:02 |
| 180114M1_3 | ST180114M1-3 PFC CS0 17L2608 | 14-Jan-18 | 13:53:10 |
| + ${ }^{+}$180114M1_4 | ST180114M1-4 PFC CS1 17L2609 | 14-Jan-18 | 14:04:21 |
| 180114M1_5 | ST180114M1-5 PFC CS2 17 L 2610 | 14-Jan-18 | 14:15:32 |
| 6. The 180114M1_6 | ST180114M1-6 PFC CS3 17 L 2611 | 14-Jan-18 | 14:26:42 |
| Way ${ }^{\text {den }}$ 180114M1_7 | ST180114M1-7 PFC CS4 17L1208 | 14-Jan-18 | 14:37:53 |
| 8 180114M1_8 | ST180114M1-8 PFC CS5 17L2613 | 14-Jan-18 | 14:49:04 |
| 180114M1_9 | IPA | 14-Jan-18 | 15:00:15 |
| 10 180114M1_11 | ICV180114M1-1 PFC ICV 17L1201 | 14-Jan-18 | 15:11:29 |
| 11 - ف* 180114M1_12 | IPA | 14-Jan-18 | 15:31:46 |

Last Altered: Monday, January 15, 2018 15:09:12 Pacific Standard Time
Monday, January 15, 2018 15:11:46 Pacific Standard Time



Last Altered: Printed:

Monday, January 15, 2018 15:09:12 Pacific Standard Time Monday, January 15, 2018 15:11:46 Pacific Standard Time

Name: 180114M1_11, Date: 14-Jan-2018, Time: 15:11:29, ID: ICV180114M1-1 PFC ICV 17L1201, Description: PFC ICV 17L1201

| Frame | Trace | Area | IS Area | RRF | Pred.RT | RT | y Axis Resp. | Conc | \%Rec | covery Out |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 35 13C4-PFHpA | $367.2>321.8$ | 2.80 e 4 | 3.17e4 | 0.651 | 3.56 | 3.54 | 11.0 | 17.0 | 135.7 | NO |
| $33 \geq 36$ 1802-PFHxS | $403.0>102.6$ | 3.12 e 3 | 8.73 e 3 | 0.326 | 3.68 | 3.67 | 4.47 | 13.7 | 109.9 | NO |
| $34-37$ 13C2-6:2 FTS | $429.1>408.9$ | 6.49 e 3 | 3.70 e 4 | 0.171 | 4.00 | 3.98 | 2.19 | 12.9 | 102.8 | NO |
| 35 - 28 13C2-PFOA | $414.9>369.7$ | 4.09 e 4 | 3.70 e 4 | 0.903 | 4.07 | 4.06 | 13.8 | 15.3 | 122.2 | NO |
| 36 , 39 13C5-PFNA | $468.2>422.9$ | 3.05 e 4 | 3.21 e 4 | 0.844 | 4.54 | 4.53 | 11.9 | 14.1 | 112.5 | NO |
| 37 - $\leq 40$ 13C8-PFOSA | $506.1>77.7$ | 6.95 e 3 | 3.03 e 4 | 0.165 | 4.61 | 4.60 | 2.86 | 17.3 | 138.4 | NO |
| 38 - 41 13C8-PFOS | $507.0>79.9$ | 9.49 e 3 | 9.76 e 3 | 0.920 | 4.62 | 4.62 | 12.2 | 13.2 | 105.7 | NO |
| 39 42 13C2-PFDA | $515.1>469.9$ | 3.05 e 4 | 2.43 e 4 | 1.044 | 4.82 | 4.93 | 15.7 | 15.0 | 120.4 | NO |
| $40 \times 43$ 13C2-8:2 FTS | $529.1>508.7$ | 3.84 e 3 | 3.17e4 | 0.087 | 4.89 | 4.87 | 1.51 | 17.5 | 139.8 | NO |
| 41 44 d3-N-MeFOSAA | $573.3>419$ | 1.00 e 4 | 3.03 e 4 | 0.227 | 5.08 | 5.08 | 4.13 | 18.2 | 145.5 | NO |
| 42 45 d5-N-EtFOSAA | $589.3>419$ | 1.16 e 4 | 3.03 e 4 | 0.313 | 5.27 | 5.26 | 4.80 | 15.3 | 122.4 | NO |
| 43 边 46 13C2-PFUdA | $565>519.8$ | 3.49 e 4 | 3.03 e 4 | 0.899 | 5.28 | 5.27 | 14.4 | 16.0 | 128.0 | NO |
| 44.47 13C2-PFDoA | $615.0>569.7$ | 1.87 e 4 | 3.03 e 4 | 0.645 | 5.60 | 5.58 | 7.72 | 12.0 | 95.7 | NO |
| $45.48 \mathrm{~d}-\mathrm{N}-\mathrm{MeFOSA}$ | $515.2>168.9$ | 2.09 e 4 | 3.03 e 4 | 0.122 | 5.94 | 5.94 | 8.60 | 70.5 | 47.0 | YES |
| 46 - 49 13C2-PFTeDA | $714.8>669.6$ | 2.99 e 3 | 3.03 e 4 | 0.290 | 6.10 | 6.08 | 1.23 | 4.25 | 34.0 | YES |
| 47 - 50 d5-N-ETFOSA | $531.1>168.9$ | 1.79 e 4 | 3.03 e 4 | 0.131 | 6.34 | 6.34 | 7.37 | 56.1 | 37.4 | YES |
| 48 . 51 13C2-PFHxDA | $815>769.7$ | 9.74 e 2 | 3.03 e 4 | 0.377 | 6.45 | 6.44 | 0.401 | 1.06 | 21.3 | YES |
| 49 - 4 de $52 \mathrm{d7}-\mathrm{N}-\mathrm{MeFOSE}$ | $623.1>58.9$ | 4.17 e 4 | 3.03 e 4 | 0.140 | 6.42 | 6.42 | 17.2 | 123 | 82.1 | NO |
| 50 - 53 d9-N-EtFOSE | $639.2>58.8$ | 3.44 e 4 | 3.03 e 4 | 0.127 | 6.57 | 6.57 | 14.2 | 112 | 74.6 | NO |
| 51 ata 54 13C4-PFBA | $217 .>171.8$ | 3.25 e 4 | 3.25 e 4 | 1.000 | 1.44 | 1.43 | 12.5 | 12.5 | 100.0 | NO |
| 52 ) 55 13C5-PFHxA | $318>272.9$ | 3.17e4 | 3.17 e 4 | 1.000 | 3.00 | 3.01 | 12.5 | 12.5 | 100.0 | NO |
| 53 Wrex 56 13C3-PFHxS | $401.9>79.9$ | 8.73 e 3 | 8.73 e 3 | 1.000 | 3.68 | 3.67 | 12.5 | 12.5 | 100.0 | NO |
| 54 - 57 13C8-PFOA | $421.3>376$ | 3.70 e 4 | 3.70 e4 | 1.000 | 4.07 | 4.06 | 12.5 | 12.5 | 100.0 | NO |
| 55 + 58 13C9-PFNA | $472.2>426.9$ | 3.21 e 4 | 3.21 e 4 | 1.000 | 4.54 | 4.53 | 12.5 | 12.5 | 100.0 | NO |
| 56 , the 59 13C4-PFOS | $503>79.9$ | 9.76 e 3 | 9.76 e 3 | 1.000 | 4.63 | 4.62 | 12.5 | 12.5 | 100.0 | NO |
| 57 號 60 13C6-PFDA | $519.1>473.7$ | 2.43 e 4 | 2.43 e 4 | 1.000 | 4.94 | 4.93 | 12.5 | 12.5 | 100.0 | NO |
| 58. 61 13C7-PFUdA | $570.1>524.8$ | 3.03 e 4 | 3.03 e 4 | 1.000 | 5.28 | 5.27 | 12.5 | 12.5 | 100.0 | NO |

Method: U:IQ4.PROMMethDBIPFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30
Calibration: U:IQ4.PROICurveDBIC18_VAL-PFĀS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

## Compound name: PFBA

Correlation coefficient: $r=0.998579, r^{\wedge} 2=0.997160$
Calibration curve: 1.33977 * $x+-0.0328732$
Response type: Internal Std (Ref 31 ), Area * (IS Conc. / IS Area) Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



## Compound name: PFPeA

Correlation coefficient: $\mathrm{r}=0.997990, \mathrm{r}^{\wedge} 2=0.995984$
Calibration curve: $1.15515^{*} x+-0.0327357$
Response type: Internal Std ( Ref 32 ), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None


Dataset:
U:IQ4.PROIresults1180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: $\quad$ Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: PFBS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.996395$
Calibration curve: $0.00351371^{*} x^{\wedge} 2+1.85665{ }^{*} x+0.254875$
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 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 0.250 | 2.75 | 57.475 | 1196.924 | 0.600 | 0.2 | -25.6 | NO | 0.996 | NO | MM |
| 24 | 2 180115M2_2 | Standard | 0.500 | 2.75 | 97.312 | 1206.778 | 1.008 | 0.4 | -18.9 | NO | 0.996 | NO | bb |
| 3 \% 5 岛 | 3 180115M2_3 | Standard | 1.000 | 2.75 | 267.604 | 1442.793 | 2.318 | 1.1 | 10.9 | NO | 0.996 | NO | bb |
| $4 \times$ | 4 180115M2_4 | Standard | 2.000 | 2.75 | 456.564 | 1290.825 | 4.421 | 2.2 | 11.7 | NO | 0.996 | NO | bb |
|  | - 5 180115M2_5 | Standard | 5.000 | 2.74 | 1258.317 | 1432.762 | 10.978 | 5.7 | 14.3 | NO | 0.996 | NO | bb |
| 6 - ${ }^{2}$ | 6 180115M2_6 | Standard | 10.000 | 2.75 | 2824.915 | 1624.717 | 21.734 | 11.3 | 13.3 | NO | 0.996 | NO | bb |
| 7 - 7ax ${ }^{\text {ck }}$ | 7 180115M2_7 | Standard | 50.000 | 2.75 | 9832.006 | 1307.205 | 94.017 | 46.4 | -7.2 | NO | 0.996 | NO | bb |
|  | 8180115 M 2 _ 8 | Standard | 100.000 | 2.74 | 21516.695 | 1197.229 | 224.651 | 101.4 | 1.4 | NO | 0.996 | NO | bb |

Compound name: PFHxA
Correlation coefficient: $\mathrm{r}=0.996265, \mathrm{r}^{\wedge} 2=0.992544$
Calibration curve: $1.75438 * x+0.0169924$
Response type: Internal Std ( Ref 34 ), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Exclude, Weighting: 1/x, Axis trans: None


## Compound name：PFHpA

Correlation coefficient： $\mathrm{r}=0.997692, \mathrm{r}^{\wedge} 2=0.995389$
Calibration curve： 1.49645 ＊$x+-0.0592287$
Response type：Internal Std（Ref 35），Area＊（IS Conc．／IS Area）
Curve type：Linear，Origin：Exclude，Weighting： $1 / \mathrm{x}$ ，Axis trans：None

|  | \＃Name | Type | Std．Conc | RT | Area | IS Area | Response | Conc． | \％Dev | Conc．Fla | COD | D Fl | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1．tw | 1 180115M2＿1 | Standard | 0.250 | 3.87 | 179.873 | 7169.426 | 0.314 | 0.2 | －0．3 | NO | 0.995 | NO | bb |
| $2 \times$ | 2 180115M2＿2 | Standard | 0.500 | 3.87 | 469.863 | 8300.460 | 0.708 | 0.5 | 2.5 | NO | 0.995 | NO | bb |
| 3 y 域 | 3180115 M 2 ＿3 | Standard | 1.000 | 3.87 | 1139.616 | 10064.894 | 1.415 | 1.0 | －1．5 | NO | 0.995 | NO | bb |
| 4 ． | 4 180115M2＿4 | Standard | 2.000 | 3.87 | 2080.912 | 8890.794 | 2.926 | 2.0 | －0．3 | NO | 0.995 | NO | bb |
| 5 ． | $5180115 \mathrm{M} 2 \_5$ | Standard | 5.000 | 3.87 | 5066.119 | 8790.349 | 7.204 | 4.9 | －2．9 | NO | 0.995 | NO | bb |
| 6 ． 4 | 6 180115M2＿6 | Standard | 10.000 | 3.87 | 12529.151 | 9715.788 | 16.120 | 10.8 | 8.1 | NO | 0.995 | NO | bb |
| 7 \％ | 7 180115M2＿7 | Standard | 50.000 | 3.87 | 47028.797 | 8726.845 | 67.362 | 45.1 | －9．9 | NO | 0.995 | NO | bb |
| 8 8， | 8180115 M 2.8 | Standard | 100.000 | 3.86 | 101713.539 | 8149.912 | 156.004 | 104.3 | 4.3 | NO | 0.995 | NO | bb |

## Compound name：L－PFHxS

Coefficient of Determination： $\mathrm{R}^{\wedge} 2=0.999726$
Calibration curve：$-0.0119577^{*} x^{\wedge} 2+2.1128 * x+0.0383417$
Response type：Internal Std（ Ref 36 ），Area＊（ IS Conc．／IS Area ）
Curve type：2nd Order，Origin：Include，Weighting：1／x，Axis trans：None

| －$x^{4}+44^{4}$ | ne | Type | Std．Conc | RT | Area | IS Area | Response | Conc． | $\% \mathrm{Dev}$ | c． | CoD | F | exclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 为 | 1 180115M2＿1 | Standard | 0.250 | 4.01 | 38.643 | 793.087 | 0.609 | 0.3 | 8.2 | NO | 1.000 | NO | MM |
| $2{ }^{\text {2 }}$ | 2 180115M2＿2 | Standard | 0.500 | 4.02 | 85.314 | 971.136 | 1.098 | 0.5 | 0.6 | NO | 1.000 | NO | MM |
| 3． 4 4 | 3 180115M2＿3 | Standard | 1.000 | 4.01 | 182.145 | 1035.130 | 2.200 | 1.0 | 2.9 | NO | 1.000 | NO | MM |
|  | 4 180115M2＿4 | Standard | 2.000 | 4.01 | 349.074 | 1074.646 | 4.060 | 1.9 | －3．8 | NO | 1.000 | NO | MM |
| 5 －＋4x cex | 5 180115M2＿5 | Standard | 5.000 | 4.01 | 873.617 | 1083.133 | 10.082 | 4.9 | －2．2 | NO | 1.000 | NO | MM |
| 6 －${ }^{4}$ | 6180115 M 266 | Standard | 10.000 | 4.01 | 1964.532 | 1211.424 | 20.271 | 10.2 | 1.6 | NO | 1.000 | NO | MM |
|  | 7180115 M 2 ＿7 | Standard | 50.000 | 4.01 | 6470.750 | 1067.766 | 75.751 | 50.0 | －0．1 | NO | 1.000 | NO | MM |
| 8 为 | 8 180115M2＿8 | Standard | 100.000 | 4.01 | 14751.116 | 1041.940 | 176.967 |  |  | NO | 1.000 | NO | MMXI |

Dataset:
U:IQ4.PROIresults1180115M2|180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: 6:2 FTS

Coefficient of Determination: R^2 $=0.995384$
Calibration curve: -0.00485621 * $x^{\wedge} 2+2.92773$ * $x+-0.123035$
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 | c. | CoD | D | du |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 0.250 | 4.32 | 28.815 | 793.087 | 0.454 | 0.2 | -21.1 | NO | 0.995 | NO | MM |
| 2 | 2 180115M2_2 | Standard | 0.500 | 4.34 | 118.251 | 971.136 | 1.522 | 0.6 | 12.5 | NO | 0.995 | NO | bb |
| 3 - | 3 180115M2_3 | Standard | 1.000 | 4.34 | 221.274 | 1035.130 | 2.672 | 1.0 | -4.4 | NO | 0.995 | NO | bb |
| $4{ }^{\text {a }}$, 4 | 4 180115M2_4 | Standard | 2.000 | 4.33 | 430.245 | 1074.646 | 5.004 | 1.8 | -12.2 | NO | 0.995 | NO | bb |
| 5 . | 5 180115M2_5 | Standard | 5.000 | 4.32 | 1149.229 | 1083.133 | 13.263 | 4.6 | -7.9 | NO | 0.995 | NO | bb |
| + ${ }^{1}$ | 6 180115M2_6 | Standard | 10.000 | 4.33 | 3333.318 | 1211.424 | 34.395 | 12.0 | 20.3 | NO | 0.995 | NO | bb |
| $7 \times+5$ | 7 180115M2_7 | Standard | 50.000 | 4.33 | 10895.729 | 1067.766 | 127.553 | 47.3 | -5.4 | NO | 0.995 | NO | bb |
| 8 - | 8180115 M 2 _ 8 | Standard | 100.000 | 4.32 | 20578.084 | 1041.940 | 246.872 | 101.4 | 1.4 | NO | 0.995 | NO | bb |

## Compound name: L-PFOA

Correlation coefficient: $r=0.997397, r^{\wedge} 2=0.994801$
Calibration curve: $1.11967 * x+0.355683$
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 | Área | IS Area | Response | Conc. | \%Dev | ce. | Cob |  | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180115M2_1 | Standard | 0.250 | 4.38 | 600.230 | 11129.10C | 0.674 | 0.3 | 13.8 | NO | 0.995 | NO | bb |
| - | 2 180115M2_2 | Standard | 0.500 | 4.39 | 831.124 | 12054.782 | 0.862 | 0.5 | -9.6 | NO | 0.995 | NO | bb |
| $\cdots$ | 3 180115M2_3 | Standard | 1.000 | 4.39 | 1444.660 | 13949.129 | 1.295 | 0.8 | -16.1 | NO | 0.995 | NO | bb |
|  | 4 180115M2_4 | Standard | 2.000 | 4.38 | 2614.963 | 13294.508 | 2.459 | 1.9 | -6.1 | NO | 0.995 | NO | bb |
| 2 | 5 180115M2_5 | Standard | 5.000 | 4.38 | 6889.996 | 12417.951 | 6.936 | 5.9 | 17.5 | NO | 0.995 | NO | bb |
| 6 为 | 6 180115M2_6 | Standard | 10.000 | 4.39 | 14997.181 | 15251.905 | 12.291 | 10.7 | 6.6 | NO | 0.995 | NO | bb |
|  | 7 180115M2_7 | Standard | 50.000 | 4.38 | 52255.660 | 12829.036 | 50.915 | 45.2 | -9.7 | NO | 0.995 | NO | bb |
| 84.4 | 8 180115M2_8 | Standard | 100.000 | 4.38 | 105739.719 | 11359.297 | 116.358 | 103.6 | 3.6 | NO | 0.995 | NO | bb |

## Dataset:

U:IQ4.PROIresults\180115M2|180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: PFHpS

Coefficient of Determination: $R^{\wedge} 2=0.998980$
Calibration curve: $-0.001411388^{*} x^{\wedge} 2+0.29869 * x+-0.030036$
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. F | COD | D | exclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180115M2_1 | Standard | 0.250 | 4.49 | 37.480 | 11129.10C | 0.042 | 0.2 | -3.3 | NO | 0.999 | NO | MM |
| 2 | 2 180115M2_2 | Standard | 0.500 | 4.49 | 130.063 | 12054.782 | 0.135 | 0.6 | 10.7 | NO | 0.999 | NO | bb |
|  | 3 180115M2_3 | Standard | 1.000 | 4.49 | 279.276 | 13949.129 | 0.250 | 0.9 | -5.7 | NO | 0.999 | NO | bb |
| T- | 4180115 M 2 _ 4 | Standard | 2.000 | 4.49 | 558.214 | 13294.508 | 0.525 | 1.9 | -6.3 | NO | 0.999 | NO | bb |
| $5 \times \mathrm{tax}$ | 5180115 M 2 _5 | Standard | 5.000 | 4.48 | 1514.899 | 12417.951 | 1.525 | 5.3 | 6.8 | NO | 0.999 | NO | bb |
| $6^{4}+\sqrt{4}$ | 6180115 M 2 _6 | Standard | 10.000 | 4.49 | 3361.794 | 15251.905 | 2.755 | 9.8 | -2.2 | NO | 0.999 | NO | bb |
|  | 7 180115M2_7 | Standard | 50.000 | 4.49 | 11679.672 | 12829.036 | 11.380 | 50.0 | 0.1 | NO | 0.999 | NO | bb |
| 8 - | $8180115 \mathrm{M} 2 \_8$ | Standard | 100.000 | 4.48 | 25926.199 | 11359.297 | 28.530 |  |  | NO | 0.999 | NO | bbXI |

## Compound name: PFNA

Coefficient of Determination: $R^{\wedge} 2=0.998251$
Calibration curve: $0.00123227^{*} x^{\wedge} 2+1.35269$ * $x+-0.0256811$
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 | 15 Area | Response | Conc. | \%Dev |  |  | F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 , | 1 180115M2_1 | Standard | 0.250 | 4.82 | 259.860 | 8611.178 | 0.377 | 0.3 | 19.1 | NO | 0.998 | NO | bb |
|  | 2 180115M2_2 | Standard | 0.500 | 4.82 | 449.605 | 10629.969 | 0.529 | 0.4 | -18.1 | NO | 0.998 | NO | bb |
| 3. ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ | 3 180115M2_3 | Standard | 1.000 | 4.82 | 1316.261 | 11370.316 | 1.447 | 1.1 | 8.8 | NO | 0.998 | NO | bb |
|  | 4 180115M2_4 | Standard | 2.000 | 4.81 | 2082.001 | 11056.825 | 2.354 | 1.8 | -12.2 | NO | 0.998 | NO | bb |
| 54 - | 5 180115M2_5 | Standard | 5.000 | 4.81 | 6798.414 | 13849.589 | 6.136 | 4.5 | -9.3 | NO | 0.998 | NO | bb |
| \% | 6 180115M2_6 | Standard | 10.000 | 4.81 | 15373.284 | 12422.833 | 15.469 | 11.3 | 13.4 | NO | 0.998 | NO | bb |
| $7{ }^{3}$ | 7 180115M2_7 | Standard | 50.000 | 4.81 | 56579.699 | 10235.261 | 69.099 | 48.9 | -2.2 | NO | 0.998 | NO | bb |
| 8 - | 8180115 M 2 _8 | Standard | 100.000 | 4.81 | 119351.391 | 10065.815 | 148.214 | 100.4 | 0.4 | NO | 0.998 | NO | bb |

Dataset: U:IQ4.PROTresults\180115M21180115M2-CRV.qld
$\begin{array}{ll}\text { Last Altered: } & \text { Tuesday, January 16, } 2018 \text { 10:22:57 Pacific Standard Time } \\ \text { Printed: } & \text { Tuesday, January 16, } 2018 \text { 10:29:14 Pacific Standard Time }\end{array}$

## Compound name: PFOSA

Correlation coefficient: $r=0.999519, r^{\wedge} 2=0.999039$
Calibration curve: 1.2051 * $x+-0.0242098$
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 |  |  |  | d |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | 1 180115M2_1 | Standard | 0.250 | 4.87 | 37.636 | 2018.146 | 0.233 | 0.2 | -14.6 | NO | 0.999 | NO | MM |
| 2 + | 2 180115M2_2 | Standard | 0.500 | 4.88 | 105.176 | 2450.537 | 0.536 | 0.5 | -6.9 | NO | 0.999 | NO | bb |
| $3 \times$ | 3 180115M2_3 | Standard | 1.000 | 4.88 | 323.306 | 3263.926 | 1.238 | 1.0 | 4.8 | NO | 0.999 | NO | bb |
| $4{ }^{2}$ | 4 180115M2_4 | Standard | 2.000 | 4.88 | 552.892 | 2580.329 | 2.678 | 2.2 | 12.1 | NO | 0.999 | NO | bb |
| 5 - 7 | 5180115 M 2 _5 | Standard | 5.000 | 4.87 | 1393.146 | 2747.783 | 6.338 | 5.3 | 5.6 | NO | 0.999 | NO | bb |
| 6. ${ }^{4}$ - - - | 6 180115M2_6 | Standard | 10.000 | 4.88 | 3058.177 | 3176.006 | 12.036 | 10.0 | 0.1 | NO | 0.999 | NO | bb |
| 7 7- ${ }^{\text {che }}$ | 7180115 M 2 _7 | Standard | 50.000 | 4.88 | 11742.631 | 2461.930 | 59.621 | 49.5 | -1.0 | NO | 0.999 | NO | bb |
|  | 8180115 M 2 _ 8 | Standard | 100.000 | 4.87 | 25960.203 | 1976.078 | 164.215 | 136.3 | 36.3 | NO | 0.999 | NO | bbx |

## Compound name: L-PFOS

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997719$
Calibration curve: $0.000945797{ }^{*} x^{\wedge} 2+1.10838 * x+-0.0443788$
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. | \%De |  | Cod |  | luded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 145 | 1 180115M2_1 | Standard | 0.250 | 4.89 | 39.696 | 2273.944 | 0.218 | 0.2 | -5.3 | NO | 0.998 | NO | MM |
| 2 , 5t-4 | 2 180115M2_2 | Standard | 0.500 | 4.90 | 100.584 | 2945.228 | 0.427 | 0.4 | -15.0 | NO | 0.998 | NO | MM |
|  | 3 180115M2_3 | Standard | 1.000 | 4.89 | 310.652 | 3464.374 | 1.121 | 1.1 | 5.0 | NO | 0.998 | NO | MM |
|  | 4 180115M2_4 | Standard | 2.000 | 4.89 | 535.144 | 3222.043 | 2.076 | 1.9 | -4.5 | NO | 0.998 | NO | MM |
| 5. ${ }^{\text {a }}$ - | 5 180115M2_5 | Standard | 5.000 | 4.89 | 1476.891 | 2939.392 | 6.281 | 5.7 | 13.6 | NO | 0.998 | NO | MM |
| 6.4 | 6 180115M2_6 | Standard | 10.000 | 4.89 | 3408.097 | 3461.071 | 12.309 | 11.0 | 10.4 | NO | 0.998 | NO | MM |
|  | 7 180115M2_7 | Standard | 50.000 | 4.89 | 12781.024 | 2933.493 | 54.462 | 47.3 | -5.5 | NO | 0.998 | NO | MM |
| 8 - ${ }^{3}$ | 8180115 M 2 8 8 | Standard | 100.000 | 4.89 | 23913.445 | 2455.447 | 121.737 | 101.1 | 1.1 | NO | 0.998 | NO | MM |

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| Dataset: | U:IQ4.PRO\results\180115M2\180115M2-CRV.qld |
| :--- | :--- |
| Last Altered: | Tuesday, January 16, 2018 10:22:57 Pacific Standard Time |
| Printed: | Tuesday, January 16, 2018 10:29:14 Pacific Standard Time |

## Compound name: PFDA

Coefficient of Determination: R^2 $=0.996672$
Calibration curve: 0.0014094 * $x^{\wedge} 2+1.42444$ * $x+0.0195565$
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 |  | CoD | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| , | 1 180115M2_1 | Standard | 0.250 | 5.19 | 236.809 | 9117.220 | 0.325 | 0.2 | -14.3 | NO | 0.997 | NO | bb |
|  | 2 180115M2_2 | Standard | 0.500 | 5.19 | 522.395 | 9259.429 | 0.705 | 0.5 | -3.8 | NO | 0.997 | NO | bb |
| 3 - 4 | 3 180115M2_3 | Standard | 1.000 | 5.19 | 1297.286 | 10469.260 | 1.549 | 1.1 | 7.3 | NO | 0.997 | NO | bb |
| - | 4 180115M2_4 | Standard | 2.000 | 5.18 | 2358.456 | 11543.967 | 2.554 | 1.8 | -11.2 | NO | 0.997 | NO | bb |
| 5 - , a | 5 180115M2_5 | Standard | 5.000 | 5.18 | 6493.696 | 10095.664 | 8.040 | 5.6 | 12:0 | NO | 0.997 | NO | bb |
|  | 6 180115M2_6 | Standard | 10.000 | 5.19 | 13712.378 | 10322.235 | 16.605 | 11.5 | 15.1 | NO | 0.997 | NO | bb |
|  | 7 180115M2_7 | Standard | 50.000 | 5.19 | 49480.613 | 8868.471 | 69.742 | 46.8 | -6.4 | NO | 0.997 | NO | bb |
| 8 , | 8 180115M2_8 | Standard | 100.000 | 5.18 | 124944.242 | 9834.333 | 158.811 | 101.3 | 1.3 | NO | 0.997 | NO | bb |

## Compound name: 8:2 FTS

Coefficient of Determination: $\mathbf{R}^{\wedge} 2=0.990883$
Calibration curve: $-0.00290289^{*} x^{\wedge} 2+0.283311$ * $x+-0.0505687$
Response type: Internal Std (Ref 42 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None


Dataset:
U:IQ4.PROIresults\180115M2|180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed:
Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: N-MeFOSAA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999579$
Calibration curve: -0.00488709 * ${ }^{\wedge} 2+1.70404$ * x + -0.0213461
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 ${ }_{\text {T }}$ | Std. Conc | RT | Area | IS Area | Response | Conc. |  |  | CoD |  | d |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 0.250 | 5.34 | 110.162 | 3668.057 | 0.375 | 0.2 | -6.8 | NO | 1.000 | NO | bb |
| $2 \times+{ }^{2}$ | 2 180115M2_2 | Standard | 0.500 | 5.34 | 278.179 | 4068.198 | 0.855 | 0.5 | 3.0 | NO | 1.000 | NO | bb |
| 3 l | 3 180115M2_3 | Standard | 1.000 | 5.34 | 608.335 | 4941.718 | 1.539 | 0.9 | -8.2 | NO | 1.000 | NO | bb |
| 4 - 4 ata | 4 180115M2_4 | Standard | 2.000 | 5.33 | 1231.249 | 4259.577 | 3.613 | 2.1 | 7.3 | NO | 1.000 | NO | bb |
| $5 \times 4$ | 5180115 M 2 _5 | Standard | 5.000 | 5.33 | 3181.715 | 4700.651 | 8.461 | 5.1 | 1.0 | NO | 1.000 | NO | bb |
| 6 \% | 6180115 M 2 _6 | Standard | 10.000 | 5.34 | 6179.386 | 4734.263 | 16.316 | 9.9 | -1.3 | NO | 1.000 | NO | bb |
| 7 C | 7 180115M2_7 | Standard | 50.000 | 5.33 | 28100.633 | 4812.376 | 72.991 | 50.0 | 0.0 | NO | 1.000 | NO | bb |
| 8 - | 8180115 M 2 _ 8 | Standard | 100.000 | 5.33 | 46974.879 | 4204.535 | 139.655 | 131.7 | 31.7 | NO | 1.000 | NO | bbX |

## Compound name: N-EtFOSAA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999053$
Calibration curve: $-0.0014328^{*} x^{\wedge} 2+1.31318$ * $x+-0.0721789$
Response type: Internal Std (Ref 45 ), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| dy | 1 180115M2_1 | Standard | 0.250 | 5.49 | 100.263 | 4291.856 | 0.292 | 0.3 | 11.0 | NO | 0.999 | NO | bb |
| $2{ }^{2}$ dat | 2 180115M2_2 | Standard | 0.500 | 5.49 | 161.902 | 4807.261 | 0.421 | 0.4 | -24.9 | NO | 0.999 | NO | bb |
| $3 *+{ }^{2}+$ | 3 180115M2_3 | Standard | 1.000 | 5.49 | 569.706 | 5925.357 | 1.202 | 1.0 | -2.9 | NO | 0.999 | NO | bb |
|  | 4 180115M2_4 | Standard | 2.000 | 5.49 | 867.935 | 4489.890 | 2.416 | 1.9 | -5.1 | NO | 0.999 | NO | bb |
|  | 5 180115M2_5 | Standard | 5.000 | 5.49 | 2512.091 | 5242.137 | 5.990 | 4.6 | -7.2 | NO | 0.999 | NO | bb |
| 4-6, ${ }^{2}$ | 6 180115M2_6 | Standard | 10.000 | 5.49 | 6584.632 | 5935.848 | 13.866 | 10.7 | 7.4 | NO | 0.999 | NO | bb |
| 2 $x^{\text {a }}$ | 7 180115M2_7 | Standard | 50.000 | 5.49 | 21965.389 | 4444.999 | 61.770 | 49.8 | -0.4 | NO | 0.999 | NO | bb |
| 8 ${ }^{\text {a }}$ \% | 8 180115M2_8 | Standard | 100.000 | 5.48 | 40613.773 | 4340.295 | 116.967 | 100.0 | 0.0 | NO | 0.999 | NO | bb |

## Dataset

U:IQ4.PRO|results|180115M2I180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: PFUdA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.996917$
Calibration curve: $-0.00723799^{*} x^{\wedge} 2+1.36957^{*} x+-0.252476$
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 | 15 Area | Response | Conc. | \%Dev | c. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 1 180115M2_1 | Standard | 0.250 | 5.51 | 291.033 | 10659.157 | 0.341 | 0.4 | 73.8 | NO | 0.997 | NO | bbX |
|  | 2 180115M2_2 | Standard | 0.500 | 5.51 | 541.356 | 12827.074 | 0.528 | 0.6 | 14.3 | NO | 0.997 | NO | bb |
|  | 3 180115M2_3 | Standard | 1.000 | 5.51 | 1323.581 | 14368.888 | 1.151 | 1.0 | 3.1 | NO | 0.997 | NO | bb |
|  | 4 180115M2_4 | Standard | 2.000 | 5.50 | 1949.719 | 12801.493 | 1.904 | 1.6 | -20.6 | NO | 0.997 | NO | bb |
|  | 5 180115M2_5 | Standard | 5.000 | 5.50 | 5686.633 | 11208.095 | 6.342 | 4.9 | -1.1 | NO | 0.997 | NO | bb |
| 4 | 6180115 M 2 _6 | Standard | 10.000 | 5.51 | 14467.421 | 13602.793 | 13.295 | 10.5 | 4.7 | NO | 0.997 | NO | bb |
| $x=$ | 7180115 M 2 _7 | Standard | 50.000 | 5.50 | 48741.223 | 12174.631 | 50.044 | 49.9 | -0.3 | NO | 0.997 | NO | bb |
| 8 - | 8180115 M 2 _8 | Standard | 100.000 | 5.50 | 109631.352 | 10688.771 | 128.209 |  |  | NO | 0.997 | NO | bbXI |

## Compound name: PFDS

Coefficient of Determination: $R^{\wedge} 2=0.995370$
Calibration curve: -0.00111201 * $x^{\wedge} 2+0.354642$ * $x+-0.0526574$
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 |  | CoD |  | , |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 -ty 1 180115M2_1 | Standard | 0.250 | 5.55 | 49.403 | 10659.157 | 0.058 | 0.3 | 24.9 | NO | 0.995 | NO | MM |
| 2 2x.x. 2 180115M2_2 | Standard | 0.500 | 5.56 | 81.719 | 12827.074 | 0.080 | 0.4 | -25.3 | NO | 0.995 | NO | MM |
| 3 - 3 180115M2_3 | Standard | 1.000 | 5.55 | 298.787 | 14368.888 | 0.260 | 0.9 | -11.6 | NO | 0.995 | NO | bb |
|  | Standard | 2.000 | 5.55 | 698.640 | 12801.493 | 0.682 | 2.1 | 4.3 | NO | 0.995 | NO | bb |
| 5.45 180115M2_5 | Standard | 5.000 | 5.55 | 1750.839 | 11208.095 | 1.953 | 5.8 | 15.2 | NO | 0.995 | NO | bb |
| 6.4. 4 6 180115M2_6 | Standard | 10.000 | 5.55 | 3408.681 | 13602.793 | 3.132 | 9.2 | -7.5 | NO | 0.995 | NO | bb |
|  | Standard | 50.000 | 5.55 | 14534.954 | 12174.631 | 14.923 | 50.1 | 0.2 | NO | 0.995 | NO | bb |
| 8 8-8180115M2_8 | Standard | 100.000 | 5.55 | 29850.322 | 10688.771 | 34.909 |  |  | NO | 0.995 | NO | bbXI |

Dataset:
U:IQ4.PRO|results\180115M2\180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: PFDoA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.996448$
Calibration curve: $0.00269229^{*} x^{\wedge} 2+1.39884$ * $x+0.292328$
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 |  | COD | D F | xclua |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 0.250 | 5.79 | 300.361 | 6851.029 | 0.548 | 0.2 | -26.9 | NO | 0.996 | NO | bd |
|  | 2 180115M2_2 | Standard | 0.500 | 5.79 | 604.702 | 8538.500 | 0.885 | 0.4 | -15.3 | NO | 0.996 | NO | bd |
| W* | $3180115 \mathrm{M} 2 \_3$ | Standard | 1.000 | 5.79 | 1422.547 | 10789.430 | 1.648 | 1.0 | -3.3 | NO | 0.996 | NO | bd |
| $4- \pm$ | 4 180115M2_4 | Standard | 2.000 | 5.78 | 2700.776 | 9022.085 | 3.742 | 2.5 | 22.7 | NO | 0.996 | NO | bd |
|  | $5180115 \mathrm{M} 2 \ldots 5$ | Standard | 5.000 | 5.78 | 7561.792 | 10734.802 | 8.805 | 6.0 | 20.3 | NO | 0.996 | NO | bd |
| 6 , \%ex | $6180115 \mathrm{M} 2 \ldots 6$ | Standard | 10.000 | 5.78 | 15299.965 | 12215.312 | 15.657 | 10.8 | 7.6 | NO | 0.996 | NO | bd |
| 7 | 7 180115M2_7 | Standard | 50.000 | 5.78 | 57159.984 | 9999.913 | 71.451 | 46.7 | -6.6 | NO | 0.996 | NO | bb |
| 8 - | 8180115 M 2 _ 8 | Standard | 100.000 | 5.78 | 110208.867 | 8119.767 | 169.661 | 101.3 | 1.3 | NO | 0.996 | NO | bd |

## Compound name: N-MeFOSA

Correlation coefficient: $\mathrm{r}=0.999161, \mathrm{r}^{\wedge} 2=0.998323$
Calibration curve: 1.1181 * $x+-0.100317$
Response type: Internal Std (Ref 48), Area * ( IS Conc. / IS Area)
Curve type: Linear, Origin: Include, Weighting: 1/x, Axis trans: None



| Dataset: | U:IQ4.PRO\|results 1 180115M21180115M2-CRV.qld |
| :--- | :--- |
| Last Altered: | Tuesday, January 16, 2018 10:22:57 Pacific Standard Time |
| Printed: | Tuesday, January 16, 2018 10:29:14 Pacific Standard Time |

## Compound name: PFTrDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.997156$
Calibration curve: -0.000208194 * $x^{\wedge} 2+2.13661$ * $x+0.0644742$
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 Cono. Flag CoD CoD Flag x=excluded |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 0.250 | 6.03 | 345.115 | 6851.029 | 0.630 | 0.3 | 5.8 | NO | 0.997 | NO | bb |
| 2 m | 2 180115M2_2 | Standard | 0.500 | 6.03 | 831.761 | 8538.500 | 1.218 | 0.5 | 8.0 | NO | 0.997 | NO | bb |
| 3 | 3 180115M2_3 | Standard | 1.000 | 6.03 | 1617.529 | 10789.430 | 1.874 | 0.8 | -15.3 | NO | 0.997 | NO | bb |
| 4. | 4 180115M2_4 | Standard | 2.000 | 6.03 | 3191.131 | 9022.085 | 4.421 | 2.0 | 2.0 | NO | 0.997 | NO | bb |
| 5 - | 5 180115M2_5 | Standard | 5.000 | 6.03 | 7888.307 | 10734.802 | 9.185 | 4.3 | -14.6 | NO | 0.997 | NO | bb |
| 6 - | 6 180115M2_6 | Standard | 10.000 | 6.03 | 24356.207 | 12215.312 | 24.924 | 11.6 | 16.5 | NO | 0.997 | NO | bb |
| 7 - ${ }^{\text {ckin }}$ | 7 180115M2_7 | Standard | 50.000 | 6.03 | 82605.594 | 9999.913 | 103.258 | 48.5 | -2.9 | NO | 0.997 | NO | bb |
|  | 8180115 M 2 _ 8 | Standard | 100.000 | 6.03 | 138314.813 | 8119.767 | 212.929 | 100.6 | 0.6 | NO | 0.997 | NO | bb |

## Compound name: PFTeDA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.990929$
Calibration curve: -0.0220572 * $x^{\wedge} 2+3.53283^{*} x+-0.322211$
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 | 1S Área | Response |  | \%Dev | nc. | CoD | CoD | exclude |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 1 180115M2_1 | Standard | 0.250 | 6.24 | 230.708 | 3811.400 | 0.757 | 0.3 | 22.4 | NO | 0.991 | NO | MM |
| 2 2 + | 2 180115M2_2 | Standard | 0.500 | 6.24 | 526.336 | 4625.902 | 1.422 | 0.5 | -0.9 | NO | 0.991 | NO | MM |
|  | 3 180115M2_3 | Standard | 1.000 | 6.24 | 1174.005 | 5784.110 | 2.537 | 0.8 | -18.7 | NO | 0.991 | NO | MM |
|  | 4 180115M2_4 | Standard | 2.000 | 6.23 | 2327.498 | 4166.997 | 6.982 | 2.1 | 4.7 | NO | 0.991 | NO | bb |
| 5 为 | 5 180115M2_5 | Standard | 5.000 | 6.23 | 5510.744 | 5054.189 | 13.629 | 4.1 | -19.0 | NO | 0.991 | NO | MM |
| 6 \% ${ }^{\text {a }}$ | 6 180115M2_6 | Standard | 10.000 | 6.24 | 15163.117 | 5187.430 | 36.538 | 11.2 | 12.2 | NO | 0.991 | NO | MM |
| 7 x | 7180115 M 2 _7 | Standard | 50.000 | 6.23 | 46221.027 | 4785.019 | 120.744 | 49.7 | -0.6 | NO | 0.991 | NO | bb |
| 8 | 8180115 M 2 _ 8 | Standard | 100.000 | 6.23 | 113973.711 | 5518.160 | 258.179 |  |  | NO | 0.991 | NO | bbXI |

Dataset:
U:IQ4.PROIresultsI180115M2I180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Compound name: N-EtFOSA
Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.998672$
Calibration curve: $7.78779 \mathrm{e}-006$ * $x^{\wedge} 2+1.00573$ * $x+-0.161262$
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. |  |  | COD | D F | clu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180115M2_1 | Standard | 1.250 | 6.21 | 150.663 | 23192.393 | 0.974 | 1.1 | -9.7 | NO | 0.999 | NO | bb |
| 2 | 2 180115M2_2 | Standard | 2.500 | 6.20 | 406.969 | 25547.748 | 2.389 | 2.5 | 1.4 | NO | 0.999 | NO | bb |
| 3. | 3 180115M2_3 | Standard | 5.000 | 6.20 | 1002.338 | 31434.623 | 4.783 | 4.9 | -1.7 | NO | 0.999 | NO | bb |
| 4 , | 4 180115M2_4 | Standard | 10.000 | 6.20 | 1755.511 | 27705.471 | 9.505 | 9.6 | -3.9 | NO | 0.999 | NO | bb |
| 5 5 | 5180115 M 2 _ 5 | Standard | 25.000 | 6.20 | 5156.592 | 28494.203 | 27.145 | 27.1 | 8.6 | NO | 0.999 | NO | bb |
| 6 6 ${ }^{2}$ | 6 180115M2_6 | Standard | 50.000 | 6.21 | 11703.195 | 32255.756 | 54.424 | 54.3 | 8.5 | NO | 0.999 | NO | bb |
| 7. | 7 180115M2_7 | Standard | 250.000 | 6.21 | 40516.031 | 25211.236 | 241.059 | 239.4 | -4.2 | NO | 0.999 | NO | bb |
| 8 | 8180115 M 2 | Standard | 500.000 | 6.20 | 83391.828 | 24552.484 | 509.471 | 504.8 | 1.0 | NO | 0.999 | NO | bb |

## Compound name: PFHxDA

Coefficient of Determination: $R^{\wedge} 2=0.994875$
Calibration curve: $-0.000963947{ }^{*} x^{\wedge} 2+0.816406 * x+0.115618$
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 | sponse | Conc. | \%Dev | n. | COD | D F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14, ${ }^{2}$ | 1 180115M2_1 | Standard | 0.250 | 6.54 | 123.810 | 2113.428 | 0.293 | 0.2 | -13.1 | NO | 0.995 | NO | bb |
| 2 2 4 4 | 2 180115M2_2 | Standard | 0.500 | 6.54 | 258.296 | 2775.093 | 0.465 | 0.4 | -14.3 | NO | 0.995 | NO | bb |
|  | 3 180115M2_3 | Standard | 1.000 | 6.54 | 613.721 | 3282.116 | 0.935 | 1.0 | 0.5 | NO | 0.995 | NO | bb |
| 4 , ${ }^{3}$ | $4180115 \mathrm{M2}$ _4 | Standard | 2.000 | 6.54 | 951.224 | 2733.865 | 1.740 | 2.0 | -0.3 | NO | 0.995 | NO | bb |
|  | 5180115 M 2 _5 | Standard | 5.000 | 6.54 | 2968.312 | 2890.199 | 5.135 | 6.2 | 23.9 | NO | 0.995 | NO | bb |
| 6 6 | 6180115 M 2 _6 | Standard | 10.000 | 6.54 | 5757.014 | 3217.573 | 8.946 | 11.0 | 9.6 | NO | 0.995 | NO | bb |
| $7{ }^{2}$ | 7180115 M 2 _7 | Standard | 50.000 | 6.54 | 23373.615 | 3292.356 | 35.497 | 45.8 | -8.4 | NO | 0.995 | NO | bb |
| 8 - | 8180115 M 2 _ 8 | Standard | 100.000 | 6.54 | 44946.250 | 3057.260 | 73.507 | 102.2 | 2.2 | NO | 0.995 | NO | bb |

$\qquad$
$\qquad$

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## Compound name: PFODA

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.998411$
Calibration curve: $-0.00110371^{*} x^{\wedge} 2+0.927917^{*} x+0.0174073$
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 | D Fla | x=excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 180115M2_1 | Standard | 0.250 | 6.77 | 115.014 | 2113.428 | 0.272 | 0.3 | 9.8 | NO | 0.998 | NO | bb |
|  | 2 180115M2_2 | Standard | 0.500 | 6.77 | 242.942 | 2775.093 | 0.438 | 0.5 | -9.4 | NO | 0.998 | NO | MM |
|  | 3 180115M2_3 | Standard | 1.000 | 6.77 | 550.045 | 3282.116 | 0.838 | 0.9 | -11.5 | NO | 0.998 | NO | bb |
|  | 4 180115M2_4 | Standard | 2.000 | 6.76 | 1100.954 | 2733.865 | 2.014 | 2.2 | 7.8 | NO | 0.998 | NO | bb |
| $5 \sim$ - | 5180115 M 2 _5 | Standard | 5.000 | 6.76 | 2821.314 | 2890.199 | 4.881 | 5.3 | 5.5 | NO | 0.998 | NO | bb |
| 6 -t | 6180115 M 266 | Standard | 10.000 | 6.76 | 6417.821 | 3217.573 | 9.973 | 10.9 | 8.7 | NO | 0.998 | NO | bb |
| 5 | 7180115 M 2 _7 | Standard | 50.000 | 6.76 | 27476.373 | 3292.356 | 41.728 | 47.7 | -4.7 | NO | 0.998 | NO | bb |
| $8{ }^{-104}$ | 8180115 M 2 _ 8 | Standard | 100.000 | 6.76 | 50531.801 | 3057.260 | 82.642 | 101.2 | 1.2 | NO | 0.998 | NO | bb |

## Compound name: N-MeFOSE

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.995669$
Calibration curve: -0.000576302 * $x^{\wedge} 2+1.20032$ * $x+-0.665296$
Response type: Internal Std ( Ref 52 ), Area * ( IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

| 4 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | Cone. |  | D | cd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 \% | 1 180115M2_1 | Standard | 1.250 | 6.30 | 174.170 | 20888.145 | 1.251 | 1.6 | 27.8 | NO | 0.996 | NO | bb |
| $2 \pm$ | 2 180115M2_2 | Standard | 2.500 | 6.30 | 360.986 | 26082.570 | 2.076 | 2.3 | -8.5 | NO | 0.996 | NO | bb |
| 3.48 | 3 180115M2_3 | Standard | 5.000 | 6.31 | 977.036 | 31250.859 | 4.690 | 4.5 | -10.6 | NO | 0.996 | NO | bb |
| 4. 3 ? | 4 180115M2_4 | Standard | 10.000 | 6.30 | 2180.307 | 29842.697 | 10.959 | 9.7 | -2.7 | NO | 0.996 | NO | bb |
|  | 5180115 M 2 _5 | Standard | 25.000 | 6.30 | 6234.112 | 30325.629 | 30.836 | 26.6 | 6.3 | NO | 0.996 | NO | bd |
| 6 \% | $6180115 \mathrm{M} 2 \ldots 6$ | Standard | 50.000 | 6.30 | 11465.369 | 35709.676 | 48.161 | 41.5 | -17.0 | NO | 0.996 | NO | bd |
| 7 - 4 | 7 180115M2_7 | Standard | 250.000 | 6.31 | 46049.070 | 24759.139 | 278.982 | 267.3 | 6.9 | NO | 0.996 | NO | bb |
|  | 8 180115M2_8 | Standard | 500.000 | 6.30 | 86639.500 | 28975.107 | 448.520 | 489.1 | -2.2 | NO | 0.996 | NO | bb |

Vista Analytical Laboratory
Dataset:
U:IQ4.PROIresults1180115M2\180115M2-CRV.qld
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## Compound name: N-EtFOSE

Coefficient of Determination: $\mathrm{R}^{\wedge} 2=0.999660$
Calibration curve: $0.00097229^{*} x^{\wedge} 2+1.15972$ * $x+0.350902$
Response type: Internal Std (Ref 53 ), 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. | Co. |  | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{2}$ | 1 180115M2_1 | Standard | 1.250 | 6.45 | 222.976 | 22450.639 | 1.490 | 1.0 | -21.5 | NO | 1.000 | NO | bb |
| 22 | 2 180115M2_2 | Standard | 2.500 | 6.46 | 541.090 | 21303.693 | 3.810 | 3.0 | 19.0 | NO | 1.000 | NO | bb |
| $3{ }^{4}+4$ | 3 180115M2_3 | Standard | 5.000 | 6.45 | 1251.249 | 31097.133 | 6.036 | 4.9 | -2.4 | NO | 1.000 | NO | bb |
|  | 4 180115M2_4 | Standard | 10.000 | 6.45 | 2353.475 | 27869.063 | 12.667 | 10.5 | 5.3 | NO | 1.000 | NO | bb |
|  | 5 180115M2_5 | Standard | 25.000 | 6.45 | 5290.171 | 27858.053 | 28.485 | 23.8 | -4.9 | NO | 1.000 | NO | bb |
| $1^{6}$ | 6 180115M2_6 | Standard | 50.000 | 6.46 | 12232.546 | 28613.766 | 64.126 | 52.7 | 5.3 | NO | 1.000 | NO | bd |
| 7 max | 7 180115M2_7 | Standard | 250.000 | 6.46 | 51195.125 | 22170.844 | 346.368 | 247.2 | -1.1 | NO | 1.000 | NO | bb |
| 8 \% | 8180115 M 2 _8 | Standard | 500.000 | 6.45 | 111534.742 | 20270.486 | 825.348 | 501.0 | 0.2 | NO | 1.000 | NO | bd |

Compound name: 13C3-PFBA
Response Factor: 0.779165
RRF SD: 0.0334129 , Relative SD: 4.2883
Response type: Internal Std (Ref 54 ), Area * ( IS Conc. / IS Area )
Curve type: RF

| 2- + \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. F |  | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $12 \times 1$ - 180115 M 2 _ 1 | Standard | 12.500 | 1.53 | 8006.990 | 10061.779 | 9.947 | 12.8 | 2.1 | NO | NO | bb |
| 2-4 2 180115M2_2 | Standard | 12.500 | 1.52 | 8945.453 | 11662.093 | 9.588 | 12.3 | -1.6 | NO | NO | bb |
| 3 - 3 180115M2_3 | Standard | 12.500 | 1.52 | 11178.312 | 14677.296 | 9.520 | 12.2 | -2.3 | NO | NO | bb |
| 4 4 , 4 180115M2_4 | Standard | 12.500 | 1.52 | 9860.501 | 12356.659 | 9.975 | 12.8 | 2.4 | NO | NO | bb |
|  | Standard | 12.500 | 1.52 | 10104.886 | 13477.931 | 9.372 | 12.0 | -3.8 | NO | NO | bb |
|  | Standard | 12.500 | 1.52 | 10919.465 | 14699.104 | 9.286 | 11.9 | -4.7 | NO | NO | bb |
| $7{ }^{\text {\% }}$, \% 7 180115M2_7 | Standard | 12.500 | 1.52 | 9706.659 | 11470.707 | 10.578 | 13.6 | 8.6 | NO | NO | bb |
|  | Standard | 12.500 | 1.52 | 9008.640 | 11668.103 | 9.651 | 12.4 | -0.9 | NO | NO | bb |

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## Compound name: 13C3-PFPeA

Response Factor: 0.796717
RRF SD: 0.0707195, Relative SD: 8.87636
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area )
Curve type: RF


## Compound name: 13C3-PFBS

Response Factor: 0.0950157
RRF SD: 0.00787595 , Relative SD: 8.2891
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area )
Curve type: RF


Dataset:
U:IQ4.PRO|results|180115M2|180115M2-CRV.qld
Last Altered:
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Compound name: 13C2-PFHxA
Response Factor: 0.636292
RRF SD: 0.0537257, Relative SD: 8.44356
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area)
Curve type: RF

| (20 ${ }^{2}$ | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. F | + | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +4x | 1 180115M2_1 | Standard | 5.000 | 3.25 | 2798.348 | 12455.272 | 2.808 | 4.4 | -11.7 | NO | NO | bb |
| 2 L | 2 180115M2_2 | Standard | 5.000 | 3.25 | 3301.620 | 12561.499 | 3.285 | 5.2 | 3.3 | NO | NO | bb |
| $3 \times 2$ | 3 180115M2_3 | Standard | 5.000 | 3.25 | 4246.745 | 16767.305 | 3.166 | 5.0 | -0.5 | NO | NO | bb |
| Hts ${ }^{\text {chem }}$ | 4 180115M2_4 | Standard | 5.000 | 3.25 | 3760.921 | 14101.621 | 3.334 | 5.2 | 4.8 | NO | NO | bb |
| 5 , 40 | 5 180115M2_5 | Standard | 5.000 | 3.25 | 3739.436 | 15840.523 | 2.951 | 4.6 | -7.2 | NO | NO | bb |
| 60 Wex | 6 180115M2_6 | Standard | 5.000 | 3.25 | 4073.186 | 16157.200 | 3.151 | 5.0 | -1.0 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 5.000 | 3.25 | 3489.034 | 11804.778 | 3.695 | 5.8 | 16.1 | NO | NO | bb |
| 8 \% ${ }^{\text {a }}$ | 8 180115M2_8 | Standard | 5.000 | 3.24 | 3308.405 | 13507.876 | 3.062 | 4.8 | -3.8 | NO | NO | bb |

## Compound name: 13C4-PFHpA

Response Factor: 0.620752
RRF SD: 0.0575853 , Relative SD: 9.2767
Response type: Internal Std (Ref 55 ), Area * (IS Conc. / IS Area)
Curve type: RF

| - | 4 Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | . |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 业帾 | 1 180115M2_1 | Standard | 12.500 | 3.87 | 7169.426 | 12455.272 | 7.195 | 11.6 | -7.3 | NO | NO | bb |
| - | 2 180115M2_2 | Standard | 12.500 | 3.87 | 8300.460 | 12561.499 | 8.260 | 13.3 | 6.4 | NO | NO | bb |
| 3 3) | 3 180115M2_3 | Standard | 12.500 | 3.87 | 10064.894 | 16767.305 | 7.503 | 12.1 | -3.3 | NO | NO | bb |
| 4 \% U | 4 180115M2_4 | Standard | 12.500 | 3.87 | 8890.794 | 14101.621 | 7.881 | 12.7 | 1.6 | NO | NO | bb |
|  | 5 180115M2_5 | Standard | 12.500 | 3.87 | 8790.349 | 15840.523 | 6.937 | 11.2 | -10.6 | NO | NO | bb |
| 6 4 ${ }^{\text {a }}$ | 6 180115M2_6 | Standard | 12.500 | 3.87 | 9715.788 | 16157.200 | 7.517 | 12.1 | -3.1 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 12.500 | 3.87 | 8726.845 | 11804.778 | 9.241 | 14.9 | 19.1 | NO | NO | bb |
| 8 - | 8180115 M 2 _ 8 | Standard | 12.500 | 3.86 | 8149.912 | 13507.876 | 7.542 | 12.1 | -2.8 | NO | NO | bb |

```
Dataset: U:IQ4.PRO\results\180115M21180115M2-CRV.qld
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Printed:
    Tuesday, January 16, 2018 10:29:14 Pacific Standard Time
```


## Compound name: 1802-PFHxS

Response Factor: 0.335817
RRF SD: 0.0498507 , Relative SD: 14.8446
Response type: Internal Std ( Ref 56 ), Area * ( IS Conc. / IS Area )
Curve type: RF

|  | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%De | c. F | F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 ded | 1 180115M2_1 | Standard | 12.500 | 4.01 | 793.087 | 2804.372 | 3.535 | 10.5 | -15.8 | NO | NO | bb |
| 2 | 2 180115M2_2 | Standard | 12.500 | 4.01 | 971.136 | 3149.166 | 3.855 | 11.5 | -8.2 | NO | NO | bb |
| 3 | 3 180115M2_3 | Standard | 12.500 | 4.01 | 1035.130 | 3283.306 | 3.941 | 11.7 | -6.1 | NO | NO | bb |
| 4 | 4 180115M2_4 | Standard | 12.500 | 4.01 | 1074.646 | 3088.549 | 4.349 | 13.0 | 3.6 | NO | NO | bb |
| $5-2+5$ | 5 180115M2_5 | Standard | 12.500 | 4.01 | 1083.133 | 3535.805 | 3.829 | 11.4 | -8.8 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 4.01 | 1211.424 | 3990.885 | 3.794 | 11.3 | -9.6 | NO | NO | bb |
| 7 , | $7180115 \mathrm{M} 2 \_7$ | Standard | 12.500 | 4.01 | 1067.766 | 2610.740 | 5.112 | 15.2 | 21.8 | NO | NO | bb |
|  | 8180115 M 2 _8 | Standard | 12.500 | 4.01 | 1041.940 | 2521.238 | 5.166 | 15.4 | 23.1 | NO | NO | bb |

## Compound name: 13C2-6:2 FTS

Response Factor: 0.192395
RRF SD: 0.0380277, Relative SD: 19.7655
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 | nc. Fla | CoD Fla | clu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Wata | 1 180115M2_1 | Standard | 12.500 | 4.33 | 1703.521 | 11387.326 | 1.870 | 9.7 | -22.2 | NO | NO | bb |
| . | 2 180115M2_2 | Standard | 12.500 | 4.33 | 2145.071 | 12172.035 | 2.203 | 11.4 | -8.4 | NO | NO | bb |
| +4. | 3 180115M2_3 | Standard | 12.500 | 4.33 | 2487.351 | 13726.202 | 2.265 | 11.8 | -5.8 | NO | NO | bb |
| Wh | 4 180115M2_4 | Standard | 12.500 | 4.33 | 2144.726 | 13300.389 | 2.016 | 10.5 | -16.2 | NO | NO | bb |
| 5 5 | $5180115 \mathrm{M} 2 \ldots 5$ | Standard | 12.500 | 4.33 | 2742.800 | 12814.540 | 2.675 | 13.9 | 11.2 | NO | NO | bb |
| 6 里, | 6180115 M 2 _6 | Standard | 12.500 | 4.33 | 2540.768 | 15285.250 | 2.078 | 10.8 | -13.6 | NO | NO | bb |
| 7 \% + , | 7 180115M2_7 | Standard | 12.500 | 4.33 | 2945.466 | 11556.618 | 3.186 | 16.6 | 32.5 | NO | NO | bb |
| 8 - | 8 180115M2_8 | Standard | 12.500 | 4.32 | 2820.117 | 11963.216 | 2.947 | 15.3 | 22.5 | NO | NO | bb |

Vista Analytical Laboratory
Dataset:
U:\Q4.PRO|resultsl180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: $\quad$ Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: 13C2-PFOA

Response Factor: 1.00125
RRF SD: 0.0485388 , Relative SD: 4.84783
Response type: Internal Std (Ref 57 ), Area * (IS Conc. / IS Area)
Curve type: RF


## Compound name: 13C5-PFNA

Response Factor: 0.810837
RRF SD: 0.0778338, Relative SD: 9.59919
Response type: Internal Std (Ref 58 ), Area * ( IS Conc. / IS Area )
Curve type: RF


Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: 13C8-PFOSA

Response Factor: 0.196454
RRF SD: 0.0326291 , Relative SD: 16.609
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 | c. Fia | CoD Flag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 12.500 | 4.88 | 2018.146 | 9597.051 | 2.629 | 13.4 | 7.0 | NO | NO | bb |
| 2 | 2 180115M2_2 | Standard | 12.500 | 4.88 | 2450.537 | 12232.438 | 2.504 | 12.7 | 2.0 | NO | NO | bb |
|  | 3 180115M2_3 | Standard | 12.500 | 4.88 | 3263.926 | 16108.975 | 2.533 | 12.9 | 3.1 | NO | NO | bb |
| * | 4 180115M2_4 | Standard | 12.500 | 4.88 | 2580.329 | 15359.841 | 2.100 | 10.7 | -14.5 | NO | NO | bb |
| 5 | 5 180115M2_5 | Standard | 12.500 | 4.87 | 2747.783 | 14601.564 | 2.352 | 12.0 | -4.2 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 4.88 | 3176.006 | 14430.306 | 2.751 | 14.0 | 12.0 | NO | NO | bb |
| 7 \% | 7 180115M2_7 | Standard | 12.500 | 4.88 | 2461.930 | 10068.811 | 3.056 | 15.6 | 24.5 | NO | NO | bb |
| 8 | 8180115 M 2 _8 | Standard | 12.500 | 4.87 | 1976.078 | 14359.005 | 1.720 | 8.8 | -29.9 | NO | NO | bb |

## Compound name: 13C8-PFOS

Response Factor: 0.861518
RRF SD: 0.080099, Relative SD: 9.29742
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 F | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 a | 1 180115M2_1 | Standard | 12.500 | 4.89 | 2273.944 | 3065.292 | 9.273 | 10.8 | -13.9 | NO | NO | bb |
| 2 2 | 2 180115M2_2 | Standard | 12.500 | 4.89 | 2945.228 | 3701.104 | 9.947 | 11.5 | -7.6 | NO | NO | bb |
| $3 \mathrm{C}=$ | 3 180115M2_3 | Standard | 12.500 | 4.89 | 3464.374 | 4167.454 | 10.391 | 12.1 | -3.5 | NO | NO | bb |
| 3 | 4 180115M2_4 | Standard | 12.500 | 4.89 | 3222.043 | 3259.616 | 12.356 | 14.3 | 14.7 | NO | NO | bb |
| 5 綵 + | 5 180115M2_5 | Standard | 12.500 | 4.89 | 2939.392 | 3538.393 | 10.384 | 12.1 | -3.6 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 4.89 | 3461.071 | 3917.062 | 11.045 | 12.8 | 2.6 | NO | NO | bb |
| 7 7 \% | 7 180115M2_7 | Standard | 12.500 | 4.89 | 2933.493 | 3367.256 | 10.890 | 12.6 | 1.1 | NO | NO | bb |
| 8 - | 8 180115M2_8 | Standard | 12.500 | 4.89 | 2455.447 | 2586.616 | 11.866 | 13.8 | 10.2 | NO | NO | bb |

Vista Analytical Laboratory
Dataset: U:\Q4.PROIresultsI180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: $\quad$ Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Compound name: 13C2-PFDA
Response Factor: 0.995958
RRF SD: 0.0416295, Relative SD: 4.17985
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 ${ }^{\text {a }}$ CoD |  | CoD Flag $x=$ excluded |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{\text {d }}$ - | 1 180115M2_1 | Standard | 12.500 | 5.19 | 9117.220 | 8643.550 | 13.185 | 13.2 | 5.9 | NO | NO | bb |
| 2 m | 2 180115M2_2 | Standard | 12.500 | 5.19 | 9259.429 | 9573.944 | 12.089 | 12.1 | -2.9 | NO | NO | bb |
| $3 \times 2$ | 3 180115M2_3 | Standard | 12.500 | 5.19 | 10469.260 | 10839.729 | 12.073 | 12.1 | -3.0 | NO | NO | bb |
| 4. | 4 180115M2_4 | Standard | 12.500 | 5.18 | 11543.967 | 11526.396 | 12.519 | 12.6 | 0.6 | NO | NO | bb |
|  | 5 180115M2_5 | Standard | 12.500 | 5.18 | 10095.664 | 10211.842 | 12.358 | 12.4 | -0.7 | NO | NO | bb |
|  | $6180115 \mathrm{M} 2 \times 6$ | Standard | 12.500 | 5.19 | 10322.235 | 10477.224 | 12.315 | 12.4 | -1.1 | NO | NO | bb |
| $7{ }^{2} \times 4$ | 7180115 M 2 C 7 | Standard | 12.500 | 5.19 | 8868.471 | 9388.578 | 11.808 | 11.9 | -5.2 | NO | NO | bb |
|  | 8 180115M2_8 | Standard | 12.500 | 5.18 | 9834.333 | 9278.257 | 13.249 | 13.3 | 6.4 | NO | NO | bb |

## Compound name: 13C2-8:2 FTS

Response Factor: 0.102966
RRF SD: 0.0196885, Relative SD: 19.1214
Response type: Internal Std (Ref 55 ), Area * ( IS Conc. / IS Area )
Curve type: RF


Dataset: U:IQ4.PROTresults\180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## Compound name: d3-N-MeFOSAA

Response Factor: 0.339955
RRF SD: 0.0639138 , Relative SD: 18.8007
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 | nc. |  | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - | 1 180115M2_1 | Standard | 12.500 | 5.33 | 3668.057 | 9597.051 | 4.778 | 14.1 | 12.4 | NO | NO | bb |
| 2 | 2 180115M2_2 | Standard | 12.500 | 5.33 | 4068.198 | 12232.438 | 4.157 | 12.2 | -2.2 | NO | NO | bb |
| 3 - | 3 180115M2_3 | Standard | 12.500 | 5.33 | 4941.718 | 16108.975 | 3.835 | 11.3 | -9.8 | NO | NO | bb |
| 4 . | 4 180115M2_4 | Standard | 12.500 | 5.33 | 4259.577 | 15359.841 | 3.466 | 10.2 | -18.4 | NO | NO | bb |
| 5 - | 5 180115M2_5 | Standard | 12.500 | 5.33 | 4700.651 | 14601.564 | 4.024 | 11.8 | -5.3 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 5.33 | 4734.263 | 14430.306 | 4.101 | 12.1 | -3.5 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 12.500 | 5.33 | 4812.376 | 10068.811 | 5.974 | 17.6 | 40.6 | NO | NO | bb |
| 8 | 8 180115M2_8 | Standard | 12.500 | 5.33 | 4204.535 | 14359.005 | 3.660 | 10.8 | -13.9 | NO | NO | bb |

## Compound name: d5-N-EtFOSAA

Response Factor: 0.376804
RRF SD: 0.0581665 , Relative SD: 15.4368
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 ${ }^{\text {a }}$ CoD | + CoD Flag | x=excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 12.500 | 5.49 | 4291.856 | 9597.051 | 5.59014 .8 | 18.7 | NO | NO | bb |
| 2 - | 2 180115M2_2 | Standard | 12.500 | 5.49 | 4807.261 | 12232.438 | $4.912 \quad 13.0$ | 4.3 | NO | NO | bb |
| 3 3 | 3 180115M2_3 | Standard | 12.500 | 5.49 | 5925.357 | 16108.975 | $4.598 \quad 12.2$ | -2.4 | NO | NO | bb |
| 4 at | 4 180115M2_4 | Standard | 12.500 | 5.48 | 4489.890 | 15359.841 | $3.654 \quad 9.7$ | -22.4 | NO | NO | bb |
| 94 | 5 180115M2_5 | Standard | 12.500 | 5.48 | 5242.137 | 14601.564 | $4.488 \quad 11.9$ | -4.7 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 5.48 | 5935.848 | 14430.306 | $5.142 \quad 13.6$ | 9.2 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 12.500 | 5.48 | 4444.999 | 10068.811 | $5.518 \quad 14.6$ | 17.2 | NO | NO | bb |
| 8 - | 8 180115M2_8 | Standard | 12.500 | 5.48 | 4340.295 | 14359.005 | $3.778 \quad 10.0$ | -19.8 | NO | NO | bb |

## Dataset:

U:IQ4.PRO|results|180115M2\180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Compound name: 13C2-PFUdA
Response Factor: 0.943561
RRF SD: 0.166868 , Relative SD: 17.6849
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area )
Curve type: RF

| - 4 - ${ }^{\text {a }}$ | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | c. F | * CoDFlag | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1+\mathrm{tan}$ \% | 1 180115M2_1 | Standard | 12.500 | 5.51 | 10659.157 | 9597.051 | 13.883 | 14.7 | 17.7 | NO | NO | bb |
| $2{ }^{2}$ w | 2 180115M2_2 | Standard | 12.500 | 5.51 | 12827.074 | 12232.438 | 13.108 | 13.9 | 11.1 | NO | NO | bb |
| 3 - 7 a | 3 180115M2_3 | Standard | 12.500 | 5.51 | 14368.888 | 16108.975 | 11.150 | 11.8 | -5.5 | NO | NO | bb |
| 4 - ${ }^{4}$ at | 4 180115M2_4 | Standard | 12.500 | 5.50 | 12801.493 | 15359.841 | 10.418 | 11.0 | -11.7 | NO | NO | bb |
| 5.40 | 5 180115M2_5 | Standard | 12.500 | 5.50 | 11208.095 | 14601.564 | 9.595 | 10.2 | -18.6 | NO | NO | bb |
| 6 atay 4 | 6180115 M 2 _6 | Standard | 12.500 | 5.51 | 13602.793 | 14430.306 | 11.783 | 12.5 | -0.1 | NO | NO | bb |
| $7{ }^{4}+4$ | 7180115 M 2 _7 | Standard | 12.500 | 5.50 | 12174.631 | 10068.811 | 15.114 | 16.0 | 28.1 | NO | NO | bb |
| 8 \% | 8180115M2_8 | Standard | 12.500 | 5.50 | 10688.771 | 14359.005 | 9.305 | 9.9 | -21.1 | NO | NO | bb |

## Compound name: 13C2-PFDoA

Response Factor: 0.726172
RRF SD: 0.138899, Relative SD: 19.1275
Response type: Internal Std (Ref 61 ), Area * ( IS Conc. / IS Area )
Curve type: RF


Dataset：U：IQ4．PROIresults\180115M21180115M2－CRV．qld
Last Altered：Tuesday，January 16， 2018 10：22：57 Pacific Standard Time
Printed： Tuesday，January 16， 2018 10：29：14 Pacific Standard Time

## Compound name：d3－N－MeFOSA

Response Factor：0．118962
RRF SD： 0.0169862 ，Relative SD： 14.2787
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 | F | uded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A－ | 1 180115M2＿1 | Standard | 150.000 | 5.86 | 15969.864 | 9597.051 | 20.800 | 174.9 | 16.6 | NO | NO | bb |
| 24.4 | 2 180115M2＿2 | Standard | 150.000 | 5.86 | 17622.953 | 12232.438 | 18.008 | 151.4 | 0.9 | NO | NO | bb |
| 3 ． | 3 180115M2＿3 | Standard | 150.000 | 5.86 | 21395.508 | 16108.975 | 16.602 | 139.6 | －7．0 | NO | NO | bb |
| 4 Wers | 4 180115M2＿4 | Standard | 150.000 | 5.86 | 18699.383 | 15359.841 | 15.218 | 127.9 | －14．7 | NO | NO | bb |
| 5 \％+4 | 5 180115M2＿5 | Standard | 150.000 | 5.86 | 19396.660 | 14601.564 | 16.605 | 139.6 | －6．9 | NO | NO | bb |
| $6-1{ }^{\text {a }}$ | 6 180115M2＿6 | Standard | 150.000 | 5.86 | 21606.223 | 14430.306 | 18.716 | 157.3 | 4.9 | NO | NO | bb |
| $7 \times 4$ | 7 180115M2＿7 | Standard | 150.000 | 5.86 | 17688.914 | 10068.811 | 21.960 | 184.6 | 23.1 | NO | NO | bb |
| $8^{-4.4}$ | 8180115 M 2 ＿ 8 | Standard | 150.000 | 5.86 | 17051.773 | 14359.005 | 14.844 | 124.8 | －16．8 | NO | NO | bb |

Compound name：13C2－PFTeDA
Response Factor： 0.371352
RRF SD： 0.056833 ，Relative SD： 15.3043
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 |  | D | xcl |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1．4 5 最 | 1 180115M2＿1 | Standard | 12.500 | 6.24 | 3811.400 | 9597.051 | 4.964 | 13.4 | 6.9 | NO | NO | bb |
| 2 年 | 2 180115M2＿2 | Standard | 12.500 | 6.24 | 4625.902 | 12232.438 | 4.727 | 12.7 | 1.8 | NO | NO | bb |
| $3^{\text {\％}}$ 䢒 | 3 180115M2＿3 | Standard | 12.500 | 6.24 | 5784.110 | 16108.975 | 4.488 | 12.1 | －3．3 | NO | NO | bb |
| $4 * 4$ | 4 180115M2＿4 | Standard | 12.500 | 6.23 | 4166.997 | 15359.841 | 3.391 | 9.1 | －26．9 | NO | NO | MM |
| －47an | 5 180115M2＿5 | Standard | 12.500 | 6.23 | 5054.189 | 14601.564 | 4.327 | 11.7 | －6．8 | NO | NO | bb |
| 4 | 6 180115M2＿6 | Standard | 12.500 | 6.24 | 5187.430 | 14430.306 | 4.494 | 12.1 | －3．2 | NO | NO | MM |
|  | 7 180115M2＿7 | Standard | 12.500 | 6.23 | 4785.019 | 10068.811 | 5.940 | 16.0 | 28.0 | NO | NO | bb |
| 8 －${ }^{\text {d }}$ | 8 180115M2＿8 | Standard | 12.500 | 6.23 | 5518.160 | 14359.005 | 4.804 | 12.9 | 3.5 | NO | NO | bb |

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$\qquad$
$\qquad$
$\qquad$

Dataset: U:\Q4.PRO\results\180115M2\180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Compound name: d5-N-ETFOSA
Response Factor: 0.17355
RRF SD: 0.0236433, Relative SD: 13.6233
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area)
Curve type: RF

|  | \# Name | TypeStandard | $\begin{array}{r} \hline \text { Std. Conc } \\ 150.000 \end{array}$ | $\begin{array}{r} \mathrm{RT} \\ 6.21 \end{array}$ | $\begin{array}{r} \text { Area } \\ 23192.393 \end{array}$ | IS Area9597.051 | $\begin{array}{r} \text { Response } \\ 30.208 \end{array}$ | Canc. <br> 174.1 | \%Dev Conc. Flag |  | F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 \% | 1 180115M2_1 |  |  |  |  |  |  |  | 16.0 | NO | NO | bb |
| 2 - 2 | 2 180115M2_2 | Standard | 150.000 | 6.22 | 25547.748 | 12232.438 | 26.107 | 150.4 | 0.3 | NO | NO | bb |
| 3 ntum | 3 180115M2_3 | Standard | 150.000 | 6.21 | 31434.623 | 16108.975 | 24.392 | 140.5 | -6.3 | NO | NO | bb |
| - | 4 180115M2_4 | Standard | 150.000 | 6.21 | 27705.471 | 15359.841 | 22.547 | 129.9 | -13.4 | NO | NO | bb |
| , ${ }^{2}$ | 5 180115M2_5 | Standard | 150.000 | 6.21 | 28494.203 | 14601.564 | 24.393 | 140.6 | -6.3 | NO | NO | bb |
|  | 6 180115M2_6 | Standard | 150.000 | 6.22 | 32255.756 | 14430.306 | 27.941 | 161.0 | 7.3 | NO | NO | bb |
|  | 7180115 M 2 _7 | Standard | 150.000 | 6.22 | 25211.236 | 10068.811 | 31.299 | 180.3 | 20.2 | NO | NO | bb |
| 8 - ${ }^{2}$ | 8 180115M2_8 | Standard | 150.000 | 6.21 | 24552.484 | 14359.005 | 21.374 | 123.2 | -17.9 | NO | NO | bb |

## Compound name: 13C2-PFHxDA

Response Factor: 0.559258
RRF SD: 0.111637, Relative SD: 19.9617
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area )
Curve type: RF

| 54x ${ }^{\text {a }}$ | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. | , | ch |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 5.000 | 6.54 | 2113.428 | 9597.051 | 2.753 | 4.9 | -1.6 | NO | NO | MM |
|  | 2 180115M2_2 | Standard | 5.000 | 6.54 | 2775.093 | 12232.438 | 2.836 | 5.1 | 1.4 | NO | NO | bb |
| 3 ta | 3 180115M2_3 | Standard | 5.000 | 6.54 | 3282.116 | 16108.975 | 2.547 | 4.6 | -8.9 | NO | NO | MM |
| 4 \% 4 边 | 4 180115M2_4 | Standard | 5.000 | 6.54 | 2733.865 | 15359.841 | 2.225 | 4.0 | -20.4 | NO | NO | MM |
| 5 \% | 5 180115M2_5 | Standard | 5.000 | 6.54 | 2890.199 | 14601.564 | 2.474 | 4.4 | -11.5 | NO | NO | bb |
| 6 - | 6 180115M2_6 | Standard | 5.000 | 6.54 | 3217.573 | 14430.306 | 2.787 | 5.0 | -0.3 | NO | NO | bb |
| $7 \times$ | 7 180115M2_7 | Standard | 5.000 | 6.54 | 3292.356 | 10068.811 | 4.087 | 7.3 | 46.2 | NO | NO | MM |
| 8. | 8 180115M2_8 | Standard | 5.000 | 6.54 | 3057.260 | 14359.005 | 2.661 | 4.8 | -4.8 | NO | NO | bb |

Dataset: U:\Q4.PRO\results1180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Compound name: d7-N-MeFOSE
Response Factor: 0.179375
RRF SD: 0.0175828, Relative SD: 9.80226
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area )
Curve type: RF

|  | Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. |  | c. Fla | D Fl | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{\text {w }}$ ata | 1 180115M2_1 | Standard | 150.000 | 6.29 | 20888.145 | 9597.051 | 27.206 | 151.7 | 1.1 | NO | NO | bb |
| $2-4$ | 2 180115M2_2 | Standard | 150.000 | 6.29 | 26082.570 | 12232.438 | 26.653 | 148.6 | -0.9 | NO | NO | bb |
| $3 \times \pm$ | 3 180115M2_3 | Standard | 150.000 | 6.29 | 31250.859 | 16108.975 | 24.250 | 135.2 | -9.9 | NO | NO | bb |
| 4. | 4 180115M2_4 | Standard | 150.000 | 6.29 | 29842.697 | 15359.841 | 24.286 | 135.4 | -9.7 | NO | NO | bb |
| 5 5 | 5 180115M2_5 | Standard | 150.000 | 6.29 | 30325.629 | 14601.564 | 25.961 | 144.7 | -3.5 | NO | NO | bb |
| 6 | 6 180115M2_6 | Standard | 150.000 | 6.29 | 35709.676 | 14430.306 | 30.933 | 172.4 | 15.0 | NO | NO | bb |
| 7. | 7 180115M2_7 | Standard | 150.000 | 6.29 | 24759.139 | 10068.811 | 30.737 | 171.4 | 14.2 | NO | No | bb |
| 8 \% | 8180115 M 2 8 8 | Standard | 150.000 | 6.29 | 28975.107 | 14359.005 | 25.224 | 140.6 | -6.3 | NO | NO | bb |

## Compound name: d9-N-EtFOSE

Response Factor: 0.159689
RRF SD: 0.0235867, Relative SD: 14.7704
Response type: Internal Std (Ref 61 ), Area * (IS Conc. / IS Area)
Curve type: RF

| 4, | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc | \%Dev | c. F | D F | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 1 180115M2_1 | Standard | 150.000 | 6.44 | 22450.639 | 9597.051 | 29.242 | 183.1 | 22.1 | NO | NO | bd |
|  | 2 180115M2_2 | Standard | 150.000 | 6.45 | 21303.693 | 12232.438 | 21.770 | 136.3 | -9.1 | NO | NO | bb |
| 3 - ${ }^{\text {a }}$ | 3 180115M2_3 | Standard | 150.000 | 6.44 | 31097.133 | 16108.975 | 24.130 | 151.1 | 0.7 | NO | NO | bb |
| $4 \%$ | 4 180115M2_4 | Standard | 150.000 | 6.44 | 27869.063 | 15359.841 | 22.680 | 142.0 | -5.3 | NO | NO | bb |
| 5 5 | 5 180115M2_5 | Standard | 150.000 | 6.44 | 27858.053 | 14601.564 | 23.849 | 149.3 | -0.4 | NO | NO | bb |
|  | 6180115 M 2 _6 | Standard | 150.000 | 6.44 | 28613.766 | 14430.306 | 24.786 | 155.2 | 3.5 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 150.000 | 6.45 | 22170.844 | 10068.811 | 27.524 | 172.4 | 14.9 | NO | NO | bb |
| 8 - | 8180115 M 2 _8 | Standard | 150.000 | 6.44 | 20270.486 | 14359.005 | 17.646 | 110.5 | -26.3 | NO | NO | bb |

Dataset:
U:IQ4.PRO|results|180115M21180115M2-CRV.ald
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed:
Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

## 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 | nc. F | , | xcluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 - 4 | 1 180115M2_1 | Standard | 12.500 | 1.52 | 10061.779 | 10061.779 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 2 | 2 180115M2_2 | Standard | 12.500 | 1.52 | 11662.093 | 11662.093 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| . | 3 180115M2_3 | Standard | 12.500 | 1.52 | 14677.296 | 14677.296 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 4 180115M2_4 | Standard | 12.500 | 1.52 | 12356.659 | 12356.659 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 - | 5 180115M2_5 | Standard | 12.500 | 1.52 | 13477.931 | 13477.931 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 \% | 6 180115M2_6 | Standard | 12.500 | 1.52 | 14699.104 | 14699.104 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| , | 7 180115M2_7 | Standard | 12.500 | 1.52 | 11470.707 | 11470.707 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8. | 8 180115M2_8 | Standard | 12.500 | 1.52 | 11668.103 | 11668.103 | 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 | ne. |  | clu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 第 | 1 180115M2_1 | Standard | 12.500 | 3.25 | 12455.272 | 12455.272 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 - ${ }^{4}$ - | 2 180115M2_2 | Standard | 12.500 | 3.25 | 12561.499 | 12561.499 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 y - | 3 180115M2_3 | Standard | 12.500 | 3.25 | 16767.305 | 16767.305 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $4{ }^{4} \times$ | 4180115 M 2 _4 | Standard | 12.500 | 3.25 | 14101.621 | 14101.621 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 5 180115M2_5 | Standard | 12.500 | 3.24 | 15840.523 | 15840.523 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 - | 6 180115M2_6 | Standard | 12.500 | 3.25 | 16157.200 | 16157.200 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 7- ${ }^{\text {a }}$ | 7 180115M2_7 | Standard | 12.500 | 3.25 | 11804.778 | 11804.778 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 8 180115M2 8 | Standard | 12.500 | 3.24 | 13507.876 | 13507.876 | 12.500 | 12.5 | 0.0 | NO | NO | bb |


| Dataset: | U:IQ4.PROIresults\180115M21180115M2-CRV.qld |
| :--- | :--- |
| Last Altered: | Tuesday, January 16, 2018 10:22:57 Pacific Standard Time |
| Printed: | Tuesday, January 16, 2018 10:29:14 Pacific Standard Time |

## 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

| 5 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc Flag | CoD - | CoD F | xclu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 180115M2_1 | Standard | 12.500 | 4.01 | 2804.372 | 2804.372 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
| 2 | 2 180115M2_2 | Standard | 12.500 | 4.01 | 3149.166 | 3149.166 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
| 3 | 3 180115M2_3 | Standard | 12.500 | 4.01 | 3283.306 | 3283.306 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
| 4 - | 4 180115M2_4 | Standard | 12.500 | 4.01 | 3088.549 | 3088.549 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
|  | 5 180115M2_5 | Standard | 12.500 | 4.01 | 3535.805 | 3535.805 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
|  | 6 180115M2_6 | Standard | 12.500 | 4.01 | 3990.885 | 3990.885 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
| 7 | 7 180115M2_7 | Standard | 12.500 | 4.01 | 2610.740 | 2610.740 | 12.500 | 12.5 | 0.0 | NO |  | NO | bb |
| 8 | 8 180115M2_8 | Standard | 12.500 | 4.01 | 2521.238 | 2521.238 | 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


## 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 | nc. F | E | $x=$ excluded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 and | 1 180115M2_1 | Standard | 12.500 | 4.81 | 9887.708 | 9887.708 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 | 2180115 M 2 _2 | Standard | 12.500 | 4.82 | 14541.915 | 14541.915 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3.3 | 3 180115M2_3 | Standard | 12.500 | 4.81 | 15659.906 | 15659.906 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 4 180115M2_4 | Standard | 12.500 | 4.81 | 14165.005 | 14165.005 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 - | 5180115 M 2 _5 | Standard | 12.500 | 4.81 | 14881.775 | 14881.775 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 \% | 6180115 M 2 6 | Standard | 12.500 | 4.81 | 16690.238 | 16690.238 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $7=4$ | $7180115 \mathrm{M} 2 \ldots 7$ | Standard | 12.500 | 4.81 | 11566.101 | 11566.101 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 | 8180115 M 2 _ 8 | Standard | 12.500 | 4.81 | 12301.464 | 12301.464 | 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 | Conc | RT | Area | IS Area | Response | Conc. | Dev | nc. | D FI | xcl |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1-4 ${ }^{\text {a }}$ 180115M2_1 | Standard | 12.500 | 4.89 | 3065.292 | 3065.292 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 2 2. 2 180115M2_2 | Standard | 12.500 | 4.89 | 3701.104 | 3701.104 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3.3 180115M2_3 | Standard | 12.500 | 4.89 | 4167.454 | 4167.454 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 , 4 180115M2_4 | Standard | 12.500 | 4.89 | 3259.616 | 3259.616 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | Standard | 12.500 | 4.89 | 3538.393 | 3538.393 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 6 6180115 M 2 _6 | Standard | 12.500 | 4.89 | 3917.062 | $3917.062^{-}$ | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 7 7 180115M2_7 | Standard | 12.500 | 4.89 | 3367.256 | 3367.256 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 - 8 180115M2_8 | Standard | 12.500 | 4.89 | 2586.616 | 2586.616 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

Vista Analytical Laboratory

## Dataset:

U:IQ4.PRO|resultsI $180115 \mathrm{M} 21180115 \mathrm{M} 2-\mathrm{CRV}$.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 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. |  | nc. F | D F | clude |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1-4$ | 1 180115M2_1 | Standard | 12.500 | 5.19 | 8643.550 | 8643.550 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $2=$ | 2 180115M2_2 | Standard | 12.500 | 5.19 | 9573.944 | 9573.944 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 3 ata | 3 180115M2_3 | Standard | 12.500 | 5.19 | 10839.729 | 10839.729 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $4{ }^{-5}$ | 4 180115M2_4 | Standard | 12.500 | 5.18 | 11526.396 | 11526.396 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 | 5180115 M 2 _5 | Standard | 12.500 | 5.18 | 10211.842 | 10211.842 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 6, | 6180115 M 2 _6 | Standard | 12.500 | 5.19 | 10477.224 | 10477.224 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 12.500 | 5.19 | 9388.578 | 9388.578 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $8=$ | 8 180115M2_8 | Standard | 12.500 | 5.18 | 9278.257 | 9278.257 | 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

| 4 | \# Name | Type | Std. Conc | RT | Area | IS Area | Response | Conc. | \%Dev | nc. | D | xcli |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1{ }^{1}$ | 1 180115M2_1 | Standard | 12.500 | 5.51 | 9597.051 | 9597.051 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $2 \times 4$ | 2 180115M2_2 | Standard | 12.500 | 5.51 | 12232.438 | 12232.438 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| $38^{3 .}$ | 3 180115M2_3 | Standard | 12.500 | 5.51 | 16108.975 | 16108.975 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 4 ym | 4 180115M2_4 | Standard | 12.500 | 5.50 | 15359.841 | 15359.841 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 5 - 5 + 4 | 5 180115M2_5 | Standard | 12.500 | 5.50 | 14601.564 | 14601.564 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 6 - 煮 | 6 180115M2_6 | Standard | 12.500 | 5.51 | 14430.306 | 14430.306 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
|  | 7 180115M2_7 | Standard | 12.500 | 5.50 | 10068.811 | 10068.811 | 12.500 | 12.5 | 0.0 | NO | NO | bb |
| 8 8. | 8180115 M 2 _ 8 | Standard | 12.500 | 5.50 | 14359.005 | 14359.005 | 12.500 | 12.5 | 0.0 | NO | NO | bb |

Last Altered：Tuesday，January 16， 2018 10：22：57 Pacific Standard Time
Printed： Tuesday，January 16， 2018 10：29：14 Pacific Standard Time

Method：U：IQ4．PROIMethDBIPFAS＿FULL＿80C＿011518．mdb 15 Jan 2018 11：38：30
Calibration：U：IQ4．PROICurveDBIC18＿VAL－PFAS＿Q4＿01－15－18－FULL－OLD．cdb 16 Jan 2018 10：22：57
Name：180115M2＿1，Date：16－Jan－2018，Time：00：14：07，ID：ST180115M2－1 PFC CS－2 17L2606，Description：PFC CS－2 17L2606

| －${ }^{\text {a }}$ \＃Name | CoD | CoD Flag | \％RSD |
| :---: | :---: | :---: | :---: |
| 1 － 1 PFBA | 0.9972 | NO |  |
| 2 2 2 PFPeA | 0.9960 | NO |  |
| 3 tax 3 PFBS | 0.9964 | NO |  |
| 4 4 PFHxA | 0.9925 | NO |  |
| 5 明 5 PFHpA | 0.9954 | NO |  |
| 6 6 L－PFHxS | 0.9997 | NO |  |
| 7 86：2FTS | 0.9954 | NO |  |
| 8 粗 9 L－PFOA | 0.9948 | NO |  |
| 9 ata 11 PFHpS | 0.9990 | NO |  |
| 10 ． 12 PFNA | 0.9983 | NO |  |
| 11 13 PFOSA | 0.9990 | NO |  |
| 12 ， 14 L－PFOS | 0.9977 | NO |  |
| 13 － 16 PFDA | 0.9967 | NO |  |
| 14.1788 .2 FTS | 0.9909 | NO |  |
| 15 － 18 N－MeFOSAA | 0.9996 | NO |  |
| 16 N－EtFOSAA | 0.9991 | NO |  |
| 17．${ }^{\text {da }}$ ， 20 PFUdA | 0.9969 | NO |  |
| 18 2 PFDS | 0.9954 | NO |  |
| 19 22 PFDoA | 0.9964 | NO |  |
| 20 ： 23 N－MeFOSA | 0.9983 | NO |  |
| 21.24 PFTrDA | 0.9972 | NO |  |
| 22 － 25 PFTeDA | 0.9909 | NO |  |
| 23． 26 N－EtFOSA | 0.9987 | NO |  |
| 24.427 PFHxDA | 0.9949 | NO |  |
| 25.328 PFODA | 0.9984 | NO |  |
| 26 － 4 ＊ 29 N－MeFOSE | 0.9957 | NO |  |
| 27． 30 N－EtFOSE | 0.9997 | NO |  |
| 28.31 13C3－PFBA |  | NO | 4.288 |
| 29 ． 32 13C3－PFPeA |  | NO | 8.876 |
| 30 毞 3313 C 3 －PFBS |  | NO | 8.289 |
|  |  | NO | 8.444 |

Dataset: U:IQ4.PROIresults\180115M21180115M2-CRV.qld
Last Altered: Tuesday, January 16, 2018 10:22:57 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:29:14 Pacific Standard Time

Name: 180115M2_1, Date: 16-Jan-2018, Time: 00:14:07, ID: ST180115M2-1 PFC CS-2 17L2606, Description: PFC CS-2 17L2606


## Dataset: Untitled

Last Altered: Tuesday, January 16, 2018 10:06:30 Pacific Standard Time Printed: Tuesday, January 16, 2018 10:09:05 Pacific Standard Time

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30 Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 09:37:18

## Compound name: PFBA

|  | Name | 10 | Acq Date | Acq Time |
| :---: | :---: | :---: | :---: | :---: |
| 1 T W | 180115M2_1 | ST180115M2-1 PFC CS-2 17L2606 | 16-Jan-18 | 00:14:07 |
| 2 | 180115M2_2 | ST180115M2-2 PFC CS-1 17L2607 | 16-Jan-18 | 00:25:32 |
| 3 - ${ }^{\text {a }}$ | 180115M2_3 | ST180115M2-3 PFC CS0 17L2608 | 16-Jan-18 | 00:37:02 |
| $4{ }^{4}$ - 5 | 180115M2_4 | ST180115M2-4 PFC CS1 17L2609 | 16-Jan-18 | 00:48:46 |
| $5$ | 180115M2_5 | ST180115M2-5 PFC CS2 17 L 2610 | 16-Jan-18 | 01:00:17 |
| 6 | 180115M2_6 | ST180115M2-6 PFC CS3 17 L 2611 | 16-Jan-18 | 01:11:44 |
| $7$ | 180115M2_7 | ST180115M2-7 PFC CS4 17L1208 | 16-Jan-18 | 01:23:11 |
| $8$ | 180115M2_8 | ST180115M2-8 PFC CS5 17L2613 | 16-Jan-18 | 01:34:38 |
|  | 180115M2_9 | IPA | 16-Jan-18 | 01:46:05 |
| 10 | 180115M2_10 | ICV180115M2-1 PFC ICV 17L1201 | 16-Jan-18 | 01:57:31 |
| 11 - \% | 180115M2_11 | IPA | 16-Jan-18 | 02:08:58 |

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30
Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57
Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201


Dataset: U:IQ4.PROTresults1180115M2I180115M2-10.qld

| Last Altered: | Tuesday, January 16, 2018 10:33:59 Pacific Standard Time |
| :--- | :--- |
| Printed: | Tuesday, January 16, 2018 10:34:30 Pacific Standard Time |

Name: 180115M2_10, Date: 16-Jan-2018, Time: 01:57:31, ID: ICV180115M2-1 PFC ICV 17L1201, Description: PFC ICV 17L1201


Dataset:
U:IQ4.PROIresults1180111M211801111M2-1.qld
Last Altered: $\quad$ Saturday, January 13, 2018 11:12:24 Pacific Standard Time
Printed: Saturday, January 13, 2018 11:12:37 Pacific Standard Time

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36
Calibration: U:IQ4.PROICurveDBIC18_VAL-PFĀS_Q4_01-10-18-FULL-M3.cdb 11 Jan 2018 14:26:30


Dataset: U:IQ4.PROVresults1180111M211801111M2-1.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 | 4- Trace | - Area | - IS Area | R RRF | Pred.RT | RT | y Axis Resp | Conc. | \%Rec | Recovery Out |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | 35 13C4-PFHpA | $367.2>321.8$ | 8.02 e 3 | 1.27 e 4 | 0.604 | 3.78 | 3.70 | 7.89 | 13.1 | 104.4 | NO | 50,150 |
| 33 | 36 1802-PFHxS | $403.0>102.6$ | 9.65 e 2 | 2.97 e 3 | 0.293 | 3.94 | 3.85 | 4.06 | 13.8 | 110.7 | NO |  |
| 34 | 37 13C2-6:2 FTS | $429.1>408.9$ | 2.04 e 3 | 1.13 e 4 | 0.215 | 4.25 | 4.17 | 2.26 | 10.5 | 83.8 | NO |  |
| 35 | 38 13C2-PFOA | $414.9>369.7$ | 9.97 e 3 | 1.13 e 4 | 0.916 | 4.31 | 4.22 | 11.0 | 12.0 | 96.2 | NO |  |
| 36 | 39 13C5-PFNA | $468.2>422.9$ | 9.51 e 3 | $1.27 e 4$ | 0.817 | 4.81 | 4.66 | 9.39 | 11.5 | 91.9 | NO |  |
| 37 | 40 13C8-PFOSA | $506.1>77.7$ | 2.47 e 3 | 9.56 e 3 | 0.223 | 4.87 | 4.72 | 3.22 | 14.5 | 115.7 | NO |  |
| 38 | 41 13C8-PFOS | $507.0>79.9$ | 2.51 e 3 | 2.84 e 3 | 0.875 | 4.89 | 4.74 | 11.1 | 12.6 | 101.1 | NO |  |
| 39 | 42 13C2-PFDA | $515.1>469.9$ | 8.44 e 3 | 8.17 e 3 | 1.105 | 5.18 | 5.03 | 12.9 | 11.7 | 93.5 | NO |  |
| 40 | 43 13C2-8:2 FTS | $529.1>508.7$ | 8.64 e 2 | 1.27 e 4 | 0.101 | 5.15 | 5.01 | 0.850 | 8.42 | 67.4 | NO |  |
| 41 | $44 \mathrm{~d} 3-\mathrm{N}-\mathrm{MeFOSAA}$ | - $573.3>419$ | 3.69 e 3 | 9.56 e 3 | 0.345 | 5.32 | 5.18 | 4.83 | 14.0 | 111.8 | NO |  |
| 42 | $45 \mathrm{~d} 5-\mathrm{N}-\mathrm{EtFOSAA}$ | $589.3>419$ | 3.94 e 3 | 9.56 e 3 | 0.390 | 5.47 | 5.34 | 5.15 | 13.2 | 105.5 | NO |  |
| 43 | 46 13C2-PFUdA | $565>519.8$ | 9.41 e 3 | 9.56 e 3 | 0.958 | 5.49 | 5.36 | 12.3 | 12.8 | 102.7 | NO |  |
| 44 | 47 13C2-PFDoA | $615.0>569.7$ | 6.69 e 3 | 9.56 e 3 | 0.599 | 5.77 | 5.64 | 8.75 | 14.6 | 116.9 | NO |  |
| 45 | 48 d3-N-MeFOSA | $515.2>168.9$ | 1.55 e 4 | 9.56 e 3 | 0.124 | 5.83 | 5.75 | 20.2 | 163 | 108.7 | NO |  |
| 46 | 49 13C2-PFTeDA | $714.8>669.6$ | 2.44 e 3 | 9.56 e 3 | 0.282 | 6.22 | 6.11 | 3.18 | 11.3 | 90.4 | NO |  |
| 47 | $50 \mathrm{d5}$-N-ETFOSA | $531.1>168.9$ | 2.30 e 4 | 9.56 e 3 | 0.184 | 6.18 | 6.13 | 30.0 | 163 | 108.6 | NO |  |
| $48$ | 51 13C2-PFHxDA | $815>769.7$ | 1.93 e 3 | 9.56 e 3 | 0.540 | 6.53 | 6.44 | 2.52 | 4.67 | 93.5 | NO | , |
| 49 | $52 \mathrm{d7}-\mathrm{N}-\mathrm{MeFOSE}$ | $623.1>58.9$ | 2.31 e 4 | 9.56 e 3 | 0.182 | 6.27 | 6.26 | 30.2 | 166 | 110.4 | NO |  |
| 50 | 53 d9-N-EtFOSE | $639.2>58.8$ | 2.17 e 4 | 9.56 e 3 | 0.173 | 6.42 | 6.42 | 28.4 | 164 | 109.6 | NO |  |
| 51 | 54 13C4-PFBA | 217. > 171.8 | 1.04 e 4 | 1.04 e 4 | 1.000 | 1.38 | 1.32 | 12.5 | 12.5 | 100.0 | NO |  |
| 52 | 55 13C5-PFHxA | $318>272.9$ | 1.27 e 4 | 1.27 e 4 | 1.000 | 3.15 | 3.08 | 12.5 | 12.5 | 100.0 | NO |  |
| 53 | 56 13C3-PFHxS | $401.9>79.9$ | 2.97 e 3 | 2.97 e 3 | 1.000 | 4.02 | 3.85 | 12.5 | 12.5 | 100.0 | NO |  |
| 54 | 57 13C8-PFOA | $421.3>376$ | 1.13 e 4 | 1.13 e 4 | 1.000 | 4.38 | 4.23 | 12.5 | 12.5 | 100.0 | NO |  |
| 55 | 58 13C9-PFNA | $472.2>426.9$ | 1.27 e 4 | 1.27 e 4 | 1.000 | 4.81 | 4.66 | 12.5 | 12.5 | 100.0 | NO |  |
| 56 | 59 13C4-PFOS | $503>79.9$ | 2.84 e 3 | 2.84 e 3 | 1.000 | 4.89 | 4.74 | 12.5 | 12.5 | 100.0 | NO |  |
| 57 | 60 13C6-PFDA | $519.1>473.7$ | 8.17 e 3 | 8.17 e 3 | 1.000 | 5.18 | 5.03 | 12.5 | 12.5 | 100.0 | NO |  |
| 58 - | 61 13C7-PFUdA | $570.1>524.8$ | 9.56 e 3 | 9.56 e 3 | 1.000 | 5.49 | 5.36 | 12.5 | 12.5 | 100.0 | NO |  |

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：IQ4．PROIMethDBIPFAS＿FULL＿80C＿010818C．mdb 11 Jan 2018 15：33：36 Calibration： 13 Jan 2018 11：19：22

Compound name：PFBA

|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | ST180111M2－1 PFC CS0 17L2608 | 12－Jan－18 | 03：38：50 |
| Whati 180111M2＿2 | IPA | 12－Jan－18 | 03：49：59 |
|  | B7L0101－BS1 OPR 0.25 | 12－Jan－18 | 04：01：09 |
| What in 180111M2＿4 | B7L0101－BSD1 LCSD 0.25 | 12－Jan－18 | 04：12：24 |
|  | B7L0101－BLK1 Method Blank 0.25 | 12－Jan－18 | 04：23：34 |
| 約綅180111M2＿6 | 1701840－04 YS22－GW16－1217 0.1211 | 12－Jan－18 | 04：34：44 |
| W絲紋180111M2＿7 | 1701840－05 YS22－GW10－1217 0.11512 | 12－Jan－18 | 04：45：56 |
| 2xix 180111M2＿8 | 1701840－10 YS22－GW18－1117 0.1082 | 12－Jan－18 | 04：57：07 |
|  | 1701851－01 FT－PZ－462S－201712020．22334 | 12－Jan－18 | 05：08：18 |
| 18180111M2＿10 | 1701851－02 FT－PZ－4621－201712020．25131 | 12－Jan－18 | 05：19：28 |
|  | 1701851－03 FT－PZ－455S－201712020．2638 | 12－Jan－18 | 05：30：39 |
|  | 1701851－04 FT－PZ－4551－201712020．25637 | 12－Jan－18 | 05：41：50 |
|  | 1701851－05 FT－PZ－453S－201712020．23285 | 12－Jan－18 | 05：53：01 |
| Wh\％ | 1701851－06 FT－PZ－453S－FRB－20171202 0．26．．． | 12－Jan－18 | 06：04：12 |
| 180111M2＿15 | 1701851－07 FT－PZ－456I－FRB－201712040．2536 | 12－Jan－18 | 06：15：23 |
|  | 1701851－08 FT－PZ－456I－20171204 0.26041 | 12－Jan－18 | 06：26：36 |
| 23約紋卙180111M2＿17 | 1701851－09 FT－PZ－456S－20171204 0.25898 | 12－Jan－18 | 06：37：48 |
|  | IPA | 12－Jan－18 | 06：48：59 |
|  | ST180111M2－2 PFC CS3 17 L 2611 | 12－Jan－18 | 07：00：09 |
| 覀180111M2＿20 | IPA | 12－Jan－18 | 07：11：21 |
| 180111M2_21 | 1701802－01RE1＠5X FC－MW02SR1－NP－2017．．． | 12－Jan－18 | 07：22：31 |
| 緒180111M2＿22 | 1701802－02RE1＠5X FC－MW02SR1－P1－2017．． | 12－Jan－18 | 07：33：43 |
| 180111M2＿23 | 1701802－03RE1＠5X FC－MW02SR1－P2－2017． | 12－Jan－18 | 07：44：53 |
| 180111M2＿24 | 1701802－04RE1＠5X FC－MW02SR1－P3－2017．．． | 12－Jan－18 | 07：56：04 |
| 約貮180111M2＿25 | IPA | 12－Jan－18 | 08：07：15 |
| 3絲䋨180111M2＿26 | ST180111M2－ZPFC CS3 17 L 2611 | 12－Jan－18 | 08：18：25 |
|  | IPA 3 | 12－Jan－18 | 08：29：37 |

## Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36

 Calibration: U:IQ4.PROICurveDBIC18_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


| Dataset: | U:IQ4.PRO\results1180111M211801111M2-19.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


# 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:IQ4.PRO\MethDBIPFAS_FULL_80C_010818C.mdb 11 Jan 2018 15:33:36 Calibration: 13 Jan 2018 11:19:22

Compound name: PFBA


Last Altered: Monday, January 15, 2018 15:18:22 Pacific Standard Time
Printed:
Monday, January 15, 2018 15:18:32 Pacific Standard Time

## Method: U:IQ4.PROMMethDBIPFAS_FULL_80C_010818D.mdb 15 Jan 2018 12:58:53

 Calibration: U:IQ4.PROICurveDBIC18_VAL-PFAS Q4 01-14-18-FULL.cdb 15 Jan 2018 14:59:56Name: 180114M1_29, Date: 14-Jan-2018, Time: 18:59:27, ID: ST180114M1-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

| Hetmen Name | Trace | Area | IS Area | RRF | Pred.RT | $\cdots \mathrm{RT}$ | T- y Axis Resp. | Conc. | \%Rec | Recovery Out | 7 CoH 30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 . 1 PFBA | $213.0>168.8$ | 3.52 e 3 | 2.95 e 3 |  | 1.44 | 1.31 | 14.9 | 11.0 | 109.7 | NO |  |
| 2 2 2 PFPeA | $263.1>218.9$ | 6.91 e 3 | 7.01e3 |  | 2.37 | 2.22 | 212.3 | 10.3 | 103.2 | NO |  |
|  | $299.0>79.7$ | 1.59 e 3 | 8.71 e 2 |  | 2.60 | 2.47 | $7 \quad 22.8$ | 11.9 | 119.3 | NO |  |
| 4 4, 4 PFHxA | $313.2>268.9$ | 9.46 e 3 | 2.38 e 3 |  | 3.00 | 2.90 | 019.9 | 10.9 | 108.6 | NO |  |
| 5 5 5 PFHpA | $363.0>318.9$ | 7.41 e 3 | 6.19 e 3 |  | 3.54 | 3.43 | 314.9 | 11.6 | 115.5 | NO |  |
| 6 - 6 L-PFHxS | $398.9>79.6$ | 1.20 e 3 | 6.98 e 2 |  | 3.68 | 3.57 | $7 \quad 21.5$ | 12.5 | 125.3 | NO |  |
| 7 7 86.2 FTS | $427.1>407$ | 1.81 e 3 | 1.66 e 3 |  | 4.00 | 3.85 | 513.6 | 12.8 | 128.5 | NO |  |
| 8. 9 L-PFOA | $413>368.7$ | 9.81 e 3 | 9.22 e 3 |  | 4.07 | 3.94 | $4 \quad 13.3$ | 11.1 | 110.6 | NO |  |
| 9 9-6 11 PFHpS | $449>80.0$ | 2.01 e 3 | 9.22 e 3 |  | 4.20 | 4.06 | 6 2.73 | 10.8 | 107.7 | NO |  |
| 10 H | $463.0>418.8$ | 9.47 e 3 | 9.35 e 3 |  | 4.54 | 4.41 | $1 \quad 12.7$ | 8.48 | 84.8 | NO |  |
| 11.13 PFOSA | $498.1>77.8$ | 1.67 e 3 | 1.56 e 3 |  | 4.61 | 4.48 | $8 \quad 13.4$ | 8.96 | 89.6 | NO |  |
| 12 速 14 L-PFOS | $499>79.9$ | 2.35 e 3 | 2.35 e 3 |  | 4.63 | 4.50 | O 12.5 | 10.5 | 105.3 | NO |  |
| $13 \times 16$ PFDA | $513>468.8$ | 8.08 e 3 | 7.57 e 3 |  | 4.94 | 4.82 | 213.3 | 10.2 | 101.7 | NO |  |
| 14 - 17 8:2 FTS | $527>506.9$ | 1.57 e 3 | 1.03 e 3 |  | 4.88 | 4.76 | 6 19.0 | 10.0 | 100.0 | NO |  |
| 15 N-MeFOSAA | $570.1>419$ | 3.88 e 3 | 2.21 e 3 |  | 5.10 | 4.97 | $7 \quad 22.0$ | 9.86 | 98.6 | NO |  |
| 16. | $584.2>419$ | 3.32 e 3 | 2.64 e 3 |  | 5.27 | 5.16 | $6 \quad 15.8$ | 12.6 | 126.1 | NO |  |
| 17 Weder 20 PFUdA | $563.0>518.9$ | 8.11 e 3 | 7.96 e 3 |  | 5.30 | 5.17 | $7 \quad 12.7$ | 10.7 | 107.5 | NO |  |
| 18 . 21 PFDS | $598.8>80$ | 2.89 e 3 | 7.96 e 3 |  | 5.33 | 5.22 | 24.53 | 13.2 | 132.2 | (4) YES |  |
| 19 - 22 PFDoA | $612.9>569.0$ | 1.20 e 4 | 6.31 e 3 |  | 5.60 | 5.48 | $8 \quad 23.7$ | 9.26 | 92.6 | NO |  |
| 20. 23 N-MeFOSA | $512.1>168.9$ | 5.83 e 3 | 1.43 e 4 |  | 5.91 | 5.86 | $6 \quad 61.2$ | 56.2 | 112.4 | NO |  |
| 21.24 PFTrDA | $662.9>618.9$ | 1.14 e 4 | 2.99 e 3 |  | 5.85 | 5.74 | $4 \quad 47.9$ | 8.00 | 80.0 | NO |  |
| 22 - 5 + 25 PFTeDA | $712.9>668.8$ | 7.63 e 3 | 2.99 e 3 |  | 6.10 | 5.98 | $8 \quad 31.9$ | 12.0 | 119.9 | NO |  |
| 23 26 26 -EtFOSA | $526.1>168.9$ | 5.90 e 3 | 1.61 e 4 |  | 6.33 | 6.30 | 35.1 | 55.8 | 111.€ | NO |  |
| 24 , 27 PFHxDA | $813.1>768.6$ | 3.15 e 3 | 1.72 e 3 |  | 6.45 | 6.37 | $7 \quad 9.16$ | 9.75 | 97.5 | NO |  |
| 25.122 PFODA | $913.1>868.8$ | 3.12 e 3 | 1.72 e 3 |  | 6.70 | 6.63 | 3 9.06 | 9.36 | 93.6 | NO |  |
| 26 - 29 N-MeFOSE | $616.1>58.9$ | 6.59 e 3 | 1.60 e 4 |  | 6.43 | 6.42 | 261.7 | 54.1 | 108.3 | NO | $V$ |
| $27.30 \mathrm{~N}-$ EtFOSE | $630.1>58.9$ | 6.82 e 3 | 1.48 e 4 |  | 6.60 | 6.57 | $7 \quad 68.9$ | 54.4 | 108.8 | NO | 1 |
| 28 - 31 13C3-PFBA | $216.1>171.8$ | 2.95 e 3 | 3.86 e 3 | 0.790 | 1.44 | 1.31 | $1 \quad 9.55$ | 12.1 | 96.7 | NO 5 | stalso |
| $29.3313 C 3-\mathrm{PFPeA}$ | 266. $>221.8$ | 7.01 e 3 | 9.74 e 3 | 0.809 | 2.35 | 2.22 | 28.99 | 11.1 | 88.9 | NO |  |
| 30 \% 33 13C3-PFBS | 302. > 98.8 | 8.71 e 2 | 9.74 e 3 | 0.097 | 2.60 | 2.47 | $7 \begin{aligned} & 1.12\end{aligned}$ | 11.6 | 92.7 | NO | $\checkmark$ |
| 31. Work 34daycrataf 88A | $315>269.8$ | 2.38 e 3 | 9.74 e 3 | 0.633 | 3.00 | 2.90 | 0 3.06 | 4.83 | 96.5 | NOAge 2 | 281 of 935 |


| Dataset: | U:IQ4.PRO\|results 1180114 M11180114M1-29.qld |
| :--- | :--- |
| Last Altered: | Monday, January 15, 2018 15:18:22 Pacific Standard Time |
| Printed: | Monday, January 15, 2018 15:18:32 Pacific Standard Time |

Name: 180114M1_29, Date: 14-Jan-2018, Time: 18:59:27, ID: ST180114M1-9 PFC CS3 17L2611, Description: PFC CS3 17L2611


Last Altered: Monday, January 15, 2018 15:03:31 Pacific Standard Time Printed: Monday, January 15, 2018 15:07:47 Pacific Standard Time

## Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_010818D.mdb 15 Jan 2018 12:58:53

 Calibration: 15 Jan 2018 15:03:31Compound name: PFBA

| (1) Name |  | Acq. Date | Acq. Time |
| :---: | :---: | :---: | :---: |
| 1 180114M1_1 | ST180114M1-1 PFC CS-2 17L2606 | 14-Jan-18 | 13:30:44 |
| 2 - ${ }^{2} 80114 \mathrm{M} 122$ | ST180114M1-2 PFC CS-1 17L2607 | 14-Jan-18 | 13:42:02 |
| 3 - ${ }^{\text {a }}$ 180114M1_3 | ST180114M1-3 PFC CS0 17L2608 | 14-Jan-18 | 13:53:10 |
| 4 184 180114M1_4 | ST180114M1-4 PFC CS1 17L2609 | 14-Jan-18 | 14:04:21 |
| Whatat 180114M1_5 | ST180114M1-5 PFC CS2 17 L 2610 | 14-Jan-18 | 14:15:32 |
| 6 180114M1_6 | ST 180114M1-6 PFC CS3 17L2611 | 14-Jan-18 | 14:26:42 |
|  | ST180114M1-7 PFC CS4 17L1208 | 14-Jan-18 | 14:37:53 |
| 8 - 8 180114M1_8 | ST180114M1-8 PFC CS5 17L2613 | 14-Jan-18 | 14:49:04 |
| 9 mathe 180114M1_9 | IPA | 14-Jan-18 | 15:00:15 |
| 10 . 180114 M 1 _11 | ICV180114M1-1 PFC ICV 17L1201 | 14-Jan-18 | 15:11:29 |
| 11 䨐 180114M1_12 | IPA | 14-Jan-18 | 15:31:46 |
| 12 -4. 180114M1_13 | 1701852-01@10X IR03-MW034-C2-17D 0.26... | 14-Jan-18 | 15:43:14 |
| 13. ${ }^{\text {ana }}$ - 180114M1_14 | 1701852-02@10X IR03-MW018B-C1-17D 0.2... | 14-Jan-18 | 16:07:42 |
| 14 - | 1701852-03@20X IR03-MW018A-C2-17D 0.2... | 14-Jan-18 | 16:19:11 |
| 15 - 180114 M 1 _ 16 | 1701852-03@10X IR03-MW018A-C2-17D 0.2... | 14-Jan-18 | 16:30:38 |
| 16 - 180114M1_17 | 1701852-02 IR03-MW018B-C1-17D 0.25583 | 14-Jan-18 | 16:42:04 |
| 17 - 180114M1_18 | IPA | 14-Jan-18 | 16:53:31 |
| 18. ${ }^{\text {a }}$, 180114M1_19 | 1701852-03 IR03-MW018A-C2-17D 0.26605 | 14-Jan-18 | 17:04:58 |
| 19 180114M1_20 | IPA | 14-Jan-18 | 17:16:25 |
| 20 - 180114M1_21 | 1701905-03RE1@40X WINF1712061655JLB ... | 14-Jan-18 | 17:27:52 |
| 21.18 180114M1_22 | B7L0101-BS1 OPR 0.25 | 14-Jan-18 | 17:39:19 |
| 22 180114M1_23 | IPA | 14-Jan-18 | 17:50:46 |
| $23.180114 \mathrm{M1}$ _24 | B7L0101-BLK1 Method Blank 0.25 | 14-Jan-18 | 18:02:13 |
| 24 \#ht 180114M1_25 | 1701840-04 YS22-GW16-1217 0.1211 | 14-Jan-18 | 18:13:39 |
| 25 - ${ }^{\text {ate }}$ 180114M1_26 | 1701840-05 YS22-GW 10-1217 0.11512 | 14-Jan-18 | 18:25:06 |
| 26 - ${ }^{\text {a }}$ - 180114 M 1 _27 | 1701851-01 FT-PZ-462S-201712020.22334 | 14-Jan-18 | 18:36:33 |
|  | IPA | 14-Jan-18 | 18:48:00 |
| 28 180114M1_29 | ST180114M1-9 PFC CS3 17 L 2611 | 14-Jan-18 | 18:59:27 |

Last Altered: Tuesday, January 16, 2018 10:44:16 Pacific Standard Time
Printed: Tuesday, January 16, 2018 10:44:51 Pacific Standard Time

Method: U:IQ4.PROIMethDBIPFAS_FULL_80C_011518.mdb 15 Jan 2018 11:38:30
Calibration: U:IQ4.PROICurveDBIC-18_VAL-PFĀS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57
Name: 180115M2_26, Date: 16-Jan-2018, Time: 05:00:41, ID: ST180115M2-9 PFC CS3 17L2611, Description: PFC CS3 17L2611

$\qquad$

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time
Printed: $\quad$ Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

Method: U:IQ4.PROMMethDBIPFAS_FULL_80C_011518.mdb 16 Jan 2018 13:43:12
Calibration: U:IQ4.PROICurveDBIC18_VAL-PFĀS_Q4_01-15-18-FULL-OLD.cdb 16 Jan 2018 10:22:57

## Compound name: PFBA

|  | Name | ID | Acq. Date | Acq. Time |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 180115M2_1 | ST180115M2-1 PFC CS-2 17L2606 | 16-Jan-18 | 00:14:07 |
| 2 2\% | 180115M2_2 | ST180115M2-2 PFC CS-1 17L2607 | 16-Jan-18 | 00:25:32 |
| 3 | 180115M2_3 | ST180115M2-3 PFC CS0 17L2608 | 16-Jan-18 | 00:37:02 |
| $4-4$ | 180115M2_4 | ST180115M2-4 PFC CS1 17L2609 | 16-Jan-18 | 00:48:46 |
| 5 | 180115M2_5 | ST180115M2-5 PFC CS2 17 L 2610 | 16-Jan-18 | 01:00:17 |
| 6 | 180115M2_6 | ST180115M2-6 PFC CS3 17L2611 | 16-Jan-18 | 01:11:44 |
| 7 7 | 180115M2_7 | ST180115M2-7 PFC CS4 17L1208 | 16-Jan-18 | 01:23:11 |
| 8 - ${ }^{\text {a }}$ | 180115M2_8 | ST180115M2-8 PFC CS5 17L2613 | 16-Jan-18 | 01:34:38 |
| 9 | 180115M2_9 | IPA | 16-Jan-18 | 01:46:05 |
| 10 | 180115M2_10 | ICV180115M2-1 PFC ICV 17L1201 | 16-Jan-18 | 01:57:31 |
| 11 | 180115M2_11 | IPA | 16-Jan-18 | 02:08:58 |
| 12 | 180115M2_12 | 1701851-03 FT-PZ-455S-201712020.2638 | 16-Jan-18 | 02:20:26 |
| 13 | 180115M2_13 | 1701851-04 FT-PZ-455I-201712020.25637 | 16-Jan-18 | 02:31:52 |
| 14 | 180115M2_14 | 1701851-05 FT-PZ-453S-201712020.23285 | 16-Jan-18 | 02:43:19 |
| 15 | 180115M2_15 | 1701851-06 FT-PZ-453S-FRB-20171202 0.26... | 16-Jan-18 | 02:54:46 |
| 16 | 180115M2_16 | 1701851-07 FT-PZ-456I-FRB-20171204 0.2536 | 16-Jan-18 | 03:06:13 |
| 17 | 180115M2_17 | 1701851-08 FT-PZ-456I-20171204 0.26041 | 16-Jan-18 | 03:17:39 |
| 18 | 180115M2_18 | 1701851-09 FT-PZ-456S-20171204 0.25898 | 16-Jan-18 | 03:29:06 |
| 19 | 180115M2_19 | 1701944-01 GW-PT-CHIN-254.5-260.5 0.11993 | 16-Jan-18 | 03:40:33 |
| 20 | 180115M2_20 | 1701944-02 GW-PT-CHIN-71-77 0.11916 | 16-Jan-18 | 03:52:00 |
| 21 | 180115M2_21 | 1701944-03 GW-PT-CHIN-178-184 0.11889 | 16-Jan-18 | 04:03:27 |
| 22 | 180115M2_22 | 1701944-04 GW-PT-CHIN-108-114 0.12008 | 16-Jan-18 | 04:14:54 |
| 23 | 180115M2_23 | 1701944-05 GW-PT-CHIN-57-63 0.11948 | 16-Jan-18 | 04:26:21 |
| 24 | 180115M2_24 | 1701944-06 FB-PT-Diwater 0.11902 | 16-Jan-18 | 04:37:48 |
| 25 | 180115M2_25 | IPA | 16-Jan-18 | 04:49:15 |
| 26 | 180115M2_26 | ST180115M2-9 PFC CS3 17L2611 | 16-Jan-18 | 05:00:41 |
| 27 | 180115M2_27 | IPA | 16-Jan-18 | 05:12:08 |
| 28 | 180115M2_28 | 1701944-07 GW-PT-CHIN-254.5-260.5-Dup 0... | 16-Jan-18 | 05:23:43 |
| 29 | 180115M2_29 | 1701944-08 GW-PT-CHIN-116-122 0.11949 | 16-Jan-18 | 05:35:10 |
|  | 180115M2_30 | 1701944-09 EB-PT-Waterlevel 0.10468 | 16-Jan-18 | 05:46:37 |
| $31 \times$ | 180115M2_31 | 1701944-10 EB-PT-grundfos 0.11733 | 16-Jan-18 | 05:58:04 |

## Dataset: <br> Untitled

Last Altered: Tuesday, January 16, 2018 14:20:11 Pacific Standard Time Printed: Tuesday, January 16, 2018 14:20:51 Pacific Standard Time

## Compound name: PFBA

| [ | Name | ID | Acq Date | Acq Time |
| :---: | :---: | :---: | :---: | :---: |
| 66 | 180115M2_66 | 1701852-03@20X IR03-MW018A-C2-17D 0.2... | 16-Jan-18 | 12:45:47 |
| 67 | 180115M2_67 | IPA | 16-Jan-18 | 12:57:13 |
|  | 180115M2_68 | 1701852-02 IR03-MW018B-C1-17D 0.25583 | 16-Jan-18 | 13:08:40 |
| 69 - ${ }^{2+1}$ | 180115M2_69 | IPA | 16-Jan-18 | 13:20:07 |
| 70 | 180115M2_70 | 1701840-05 YS22-GW10-1217 0.11512 | 16-Jan-18 | 13:31:34 |
| 71 | 180115M2_71 | IPA | 16-Jan-18 | 13:43:01 |
| $72 \times$ | 180115M2_72 | ST180115M2-12 PFC CS3 17L2611 | 16-Jan-18 | 13:54:28 |

Calverton
SDG 1701851

Sample Identification
Compound
Sample volume (L)
Internal standard concentration
Concentration using quadratic/calibration curve

Curve PFNA

|  | Calibration curve ( y ) $=0.00123227$ |  |
| :---: | :---: | :---: |
|  | $0.00123227^{*} x^{\wedge} 2+1.35269 * x+-0.02$ |  |
|  | $0.00123227^{*} x^{\wedge} 2+1.35269 * x-2.52$ |  |
|  | $a=0.00123227$ |  |
|  | b= 1.35269 |  |
|  | c= -2.5256811 |  |
| $D=1.35269^{\wedge} 2-4^{*}-0.00123227^{*}-2.5256811$ |  | 1.842220 |
| SQRT D |  | 1.357283876 |
| $x=-(1.35269+1.357283876) /(2 * 0.00123227)$ |  | 1.8639893 |

PFDA result Conc $=x / w t$
$7.169189 \mathrm{ng} / \mathrm{L}$
result reported

FT-PZ-456I-20171204

PERFLUORONONANOIC ACID (PFNA)
0.26
12.5
Area*(IS concentration/IS area) ..... 2.500
pg 588 of data package



[^0]:    Tetra Tech, Inc.
    Joseph A. Samchuck
    Data Validation Manager

