



**Groundwater Sample Results,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG 1804077**

*Naval Weapons Industrial Reserve Plant Calverton
Riverhead, New York*

August 2019

"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","375-22-4","PFBA","8.12","ng/L","","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","2706-90-3","PFPeA","17.9","ng/L","","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","375-73-5","PFBS","2.67","ng/L","UU","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
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"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","375-85-9","PFHpA","21.5","ng/L","","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
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"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","27619-97-2","6:2 FTS","56.2","ng/L","","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
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"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","375-92-8","PFHpS","2.67","ng/L","UU","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
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"FT-PZ458I-20181211","Modified EPA 537","Initial","1804077-01","Vista","1763-23-1","PFOS","26.0","ng/L","","1.46","LOD","","TRG","","","4.28","LOQ","YES","-99","","0.234","0.001","2.67",""
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PFBS", "81.3", "%R", "", "-99", "NA", "", "IS", "81.3", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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PFHxS", "96.0", "%R", "", "-99", "NA", "", "IS", "96.0", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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PFDA", "72.0", "%R", "", "-99", "NA", "", "IS", "72.0", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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MeFOSAA", "61.7", "%R", "", "-99", "NA", "", "IS", "61.7", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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EtFOSAA", "61.4", "%R", "", "-99", "NA", "", "IS", "61.4", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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PFTeDA", "73.8", "%R", "", "-99", "NA", "", "IS", "73.8", "", "-99", "NA", "YES", "100", "", "0.234", "0.001", "-99", ""
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4", "PFHxS", "1.76", "ng/L", "J", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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FTS", "2.63", "ng/L", "UU", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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1", "PFOA", "9.51", "ng/L", "", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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8", "PFHpS", "2.63", "ng/L", "UU", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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1", "PFNA", "48.6", "ng/L", "", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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6", "PFOSA", "2.63", "ng/L", "UU", "1.44", "LOD", "", "TRG", "", "", "4.21", "LOQ", "YES", "-99", "", "0.238", "0.001", "2.63", ""
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"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","335-76-2","PFDA","2.63","ng/L","UU","1.44","LOD","","TRG","","","4.21","LOQ","YES","-99","","0.238","0.001","2.63",""

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"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","2355-31-9","MeFOSAA","2.63","ng/L","UU","1.44","LOD","","TRG","","","4.21","LOQ","YES","-99","","0.238","0.001","2.63",""

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"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","307-55-1","PFDoA","2.63","ng/L","UU","1.44","LOD","","TRG","","","4.21","LOQ","YES","-99","","0.238","0.001","2.63",""

"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","72629-94-8","PFTTrDA","2.63","ng/L","UU","1.44","LOD","","TRG","","","4.21","LOQ","YES","-99","","0.238","0.001","2.63",""

"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","376-06-7","PFTeDA","2.63","ng/L","UU","1.44","LOD","","TRG","","","4.21","LOQ","YES","-99","","0.238","0.001","2.63",""

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"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","13C3-PFPeA","13C3-PFPeA","87.3","%R","","-99","NA","","IS","87.3","","-99","NA","YES","100","","0.238","0.001","-99",""

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"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","13C2-PFDA","13C2-PFDA","74.0","%R","","-99","NA","","IS","74.0","","-99","NA","YES","100","","0.238","0.001","-99",""

"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","13C2-8:2 FTS","13C2-8:2 FTS","93.9","%R","","-99","NA","","IS","93.9","","-99","NA","YES","100","","0.238","0.001","-99",""

"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","d3-MeFOSAA","d3-MeFOSAA","63.5","%R","","-99","NA","","IS","63.5","","-99","NA","YES","100","","0.238","0.001","-99",""

"FT-PZ460I-20181211","Modified EPA 537","Initial","1804077-02","Vista","d5-EtFOSAA","d5-EtFOSAA","66.9","%R","",-99,"NA","","IS","66.9","",-99,"NA","YES","100","","0.238","0.001","-99",""
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","27619-97-2","6:2 FTS","182","ng/L","","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","335-67-1","PFOA","84.1","ng/L","","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","375-92-8","PFHpS","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","375-95-1","PFNA","2020","ng/L","","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","754-91-6","PFOSA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","1763-23-1","PFOS","5.47","ng/L","","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","335-76-2","PFDA","8.61","ng/L","Q","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","39108-34-4","8:2 FTS","7.95","ng/L","","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","2355-31-9","MeFOSAA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","2991-50-6","EtFOSAA","3.01","ng/L","J","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","2058-94-8","PFUnA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","335-77-3","PFDS","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","307-55-1","PFDoA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""
"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","72629-94-8","PFTTrDA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","0.237","0.001","2.64",""

"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","376-06-7","PFTeDA","2.64","ng/L","UU","1.45","LOD","","TRG","","","4.22","LOQ","YES","-99","","","0.237","0.001","2.64",
""

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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C3-PFBS","13C3-PFBS","82.5","%R","","-99","NA","","IS","82.5","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFHxA","13C2-PFHxA","88.9","%R","","-99","NA","","IS","88.9","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C4-PFHpA","13C4-PFHpA","90.3","%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","18O2-PFHxS","18O2-PFHxS","89.8","%R","","-99","NA","","IS","89.8","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-6:2 FTS","13C2-6:2 FTS","87.2","%R","","-99","NA","","IS","87.2","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFOA","13C2-PFOA","92.3","%R","","-99","NA","","IS","92.3","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C5-PFNA","13C5-PFNA","77.1","%R","","-99","NA","","IS","77.1","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C8-PFOSA","13C8-PFOSA","27.9","%R","H","-99","NA","","IS","27.9","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C8-PFOS","13C8-PFOS","88.8","%R","","-99","NA","","IS","88.8","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFDA","13C2-PFDA","73.7","%R","","-99","NA","","IS","73.7","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-8:2 FTS","13C2-8:2 FTS","94.1","%R","","-99","NA","","IS","94.1","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","d3-MeFOSAA","d3-MeFOSAA","64.9","%R","","-99","NA","","IS","64.9","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","d5-EtFOSAA","d5-EtFOSAA","71.4","%R","","-99","NA","","IS","71.4","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFUnA","13C2-PFUnA","70.7","%R","","-99","NA","","IS","70.7","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFDoA","13C2-PFDoA","81.8","%R","","-99","NA","","IS","81.8","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ461I-20181211","Modified EPA 537","Initial","1804077-03","Vista","13C2-PFTeDA","13C2-PFTeDA","73.8","%R","","-99","NA","","IS","73.8","","-99","NA","YES","100","","","0.237","0.001","-99",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","375-22-4","PFBA","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","2706-90-3","PFPeA","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","375-73-5","PFBS","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","307-24-4","PFHxA","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","375-85-9","PFHpA","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","355-46-4","PFHxS","2.69","ng/L","UU","1.47","LOD","","TRG","","","4.31","LOQ","YES","-99","","","0.232","0.001","2.69",
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"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","27619-97-2","6:2

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"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "307-55-1", "PFDoA", "2.69", "ng/L", "UU", "1.47", "LOD", "", "TRG", "", "", "4.31", "LOQ", "YES", "-99", "", "0.232", "0.001", "2.69", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "72629-94-8", "PFTTrDA", "2.69", "ng/L", "UU", "1.47", "LOD", "", "TRG", "", "", "4.31", "LOQ", "YES", "-99", "", "0.232", "0.001", "2.69", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "376-06-7", "PFTeDA", "2.69", "ng/L", "UU", "1.47", "LOD", "", "TRG", "", "", "4.31", "LOQ", "YES", "-99", "", "0.232", "0.001", "2.69", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C3-PFBA", "13C3-PFBA", "89.5", "%R", "", "-99", "NA", "", "IS", "89.5", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C3-PFPeA", "13C3-PFPeA", "86.3", "%R", "", "-99", "NA", "", "IS", "86.3", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C3-PFBS", "13C3-PFBS", "86.4", "%R", "", "-99", "NA", "", "IS", "86.4", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C2-PFHxA", "13C2-PFHxA", "84.4", "%R", "", "-99", "NA", "", "IS", "84.4", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C4-PFHpA", "13C4-PFHpA", "86.4", "%R", "", "-99", "NA", "", "IS", "86.4", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "18O2-PFHxS", "18O2-PFHxS", "93.6", "%R", "", "-99", "NA", "", "IS", "93.6", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C2-6:2 FTS", "13C2-6:2 FTS", "89.9", "%R", "", "-99", "NA", "", "IS", "89.9", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C2-PFOA", "13C2-PFOA", "86.3", "%R", "", "-99", "NA", "", "IS", "86.3", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""
"FT-PZ464S-20181211", "Modified EPA 537", "Initial", "1804077-04", "Vista", "13C5-PFNA", "13C5-PFNA", "78.4", "%R", "", "-99", "NA", "", "IS", "78.4", "", "-99", "NA", "YES", "100", "", "0.232", "0.001", "-99", ""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C8-PFOA","13C8-PFOA","27.8","%R","H","-99","NA","","IS","27.8","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C8-PFOS","13C8-PFOS","84.4","%R","","-99","NA","","IS","84.4","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C2-PFDA","13C2-PFDA","66.7","%R","","-99","NA","","IS","66.7","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C2-8:2 FTS","13C2-8:2 FTS","90.4","%R","","-99","NA","","IS","90.4","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","d3-MeFOSAA","d3-MeFOSAA","73.1","%R","","-99","NA","","IS","73.1","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","d5-EtFOSAA","d5-EtFOSAA","74.4","%R","","-99","NA","","IS","74.4","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C2-PFUnA","13C2-PFUnA","71.1","%R","","-99","NA","","IS","71.1","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C2-PFDoA","13C2-PFDoA","77.6","%R","","-99","NA","","IS","77.6","","-99","NA","YES","100","","0.232","0.001","-99",""

"FT-PZ464S-20181211","Modified EPA 537","Initial","1804077-04","Vista","13C2-PFTeDA","13C2-PFTeDA","77.0","%R","","-99","NA","","IS","77.0","","-99","NA","YES","100","","0.232","0.001","-99",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","375-22-4","PFBA","2.02","ng/L","J","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","2706-90-3","PFPeA","4.69","ng/L","","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","375-73-5","PFBS","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","307-24-4","PFHxA","5.52","ng/L","","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","375-85-9","PFHpA","3.55","ng/L","J","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","355-46-4","PFHxS","1.99","ng/L","J","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","27619-97-2","6:2 FTS","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","335-67-1","PFOA","8.65","ng/L","","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","375-92-8","PFHpS","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","375-95-1","PFNA","46.9","ng/L","","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","754-91-6","PFOA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","1763-23-1","PFOS","1.60","ng/L","J,Q","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","335-76-2","PFDA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","39108-34-4","8:2 FTS","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","2355-31-9","MeFOSAA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","2991-50-6","EtFOSAA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES","-99","","0.249","0.001","2.51",""

"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","2058-94-

"8","PFUnA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES",-99","","0.249","0.001","2.51",
"
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","335-77-
3","PFDS","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES",-99","","0.249","0.001","2.51",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","307-55-
1","PFDoA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES",-99","","0.249","0.001","2.51",
"
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","72629-94-
8","PFTTrDA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES",-99","","0.249","0.001","2.51",
"
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","376-06-
7","PFTeDA","2.51","ng/L","UU","1.38","LOD","","TRG","","","4.02","LOQ","YES",-99","","0.249","0.001","2.51",
"
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C3-PFBA","13C3-
PFBA","90.9","%R","","-99","NA","","IS","90.9","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C3-PFPeA","13C3-
PFPeA","91.7","%R","","-99","NA","","IS","91.7","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C3-PFBS","13C3-
PFBS","85.9","%R","","-99","NA","","IS","85.9","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFHxA","13C2-
PFHxA","86.2","%R","","-99","NA","","IS","86.2","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C4-PFHpA","13C4-
PFHpA","87.0","%R","","-99","NA","","IS","87.0","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","18O2-PFHxS","18O2-
PFHxS","93.3","%R","","-99","NA","","IS","93.3","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-6:2 FTS","13C2-6:2
FTS","88.3","%R","","-99","NA","","IS","88.3","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFOA","13C2-
PFOA","87.9","%R","","-99","NA","","IS","87.9","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C5-PFNA","13C5-
PFNA","83.0","%R","","-99","NA","","IS","83.0","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C8-PFOSA","13C8-
PFOSA","32.3","%R","H",-99,"NA","","IS","32.3","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C8-PFOS","13C8-
PFOS","83.2","%R","","-99","NA","","IS","83.2","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFDA","13C2-
PFDA","73.4","%R","","-99","NA","","IS","73.4","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-8:2 FTS","13C2-8:2
FTS","91.8","%R","","-99","NA","","IS","91.8","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","d3-MeFOSAA","d3-
MeFOSAA","68.0","%R","","-99","NA","","IS","68.0","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","d5-EtFOSAA","d5-
EtFOSAA","66.6","%R","","-99","NA","","IS","66.6","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFUnA","13C2-
PFUnA","68.1","%R","","-99","NA","","IS","68.1","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFDoA","13C2-
PFDoA","79.6","%R","","-99","NA","","IS","79.6","","-99","NA","YES","100","","0.249","0.001",-99",
"DUP01-20181211","Modified EPA 537","Initial","1804077-05","Vista","13C2-PFTeDA","13C2-
PFTeDA","76.6","%R","","-99","NA","","IS","76.6","","-99","NA","YES","100","","0.249","0.001",-99",
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","375-22-
4","PFBA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES",-99","","0.254","0.001","2.46",
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","2706-90-
3","PFPeA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES",-99","","0.254","0.001","2.46",
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","375-73-

5","PFBS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46","","
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","307-24-
4","PFHxA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","375-85-
9","PFHpA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","355-46-
4","PFHxS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","27619-97-2","6:2
FTS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","335-67-
1","PFOA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","375-92-
8","PFHpS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","375-95-
1","PFNA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","754-91-
6","PFOSA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","1763-23-
1","PFOS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","335-76-
2","PFDA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","39108-34-4","8:2
FTS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","2355-31-
9","MeFOSAA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.4
6",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","2991-50-
6","EtFOSAA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46
",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","2058-94-
8","PFUnA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","335-77-
3","PFDS","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","307-55-
1","PFDoA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","72629-94-
8","PFTTrDA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","376-06-
7","PFTeDA","2.46","ng/L","UU","1.35","LOD","","TRG","","","3.94","LOQ","YES","-99","","0.254","0.001","2.46",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C3-PFBA","13C3-
PFBA","90.3","%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","0.254","0.001","-99",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C3-PFPeA","13C3-
PFPeA","88.5","%R","","-99","NA","","IS","88.5","","-99","NA","YES","100","","0.254","0.001","-99",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C3-PFBS","13C3-
PFBS","80.3","%R","","-99","NA","","IS","80.3","","-99","NA","YES","100","","0.254","0.001","-99",
"
"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFHxA","13C2-
PFHxA","82.9","%R","","-99","NA","","IS","82.9","","-99","NA","YES","100","","0.254","0.001","-99",

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C4-PFHpA","13C4-PFHpA","86.3","%R","",-99,"NA","","IS","86.3","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","18O2-PFHxS","18O2-PFHxS","92.4","%R","",-99,"NA","","IS","92.4","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-6:2 FTS","13C2-6:2 FTS","96.3","%R","",-99,"NA","","IS","96.3","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFOA","13C2-PFOA","85.8","%R","",-99,"NA","","IS","85.8","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C5-PFNA","13C5-PFNA","76.6","%R","",-99,"NA","","IS","76.6","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C8-PFOA","13C8-PFOA","24.9","%R","H","-99,"NA","","IS","24.9","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C8-PFOS","13C8-PFOS","83.2","%R","",-99,"NA","","IS","83.2","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFDA","13C2-PFDA","64.2","%R","",-99,"NA","","IS","64.2","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-8:2 FTS","13C2-8:2 FTS","90.7","%R","",-99,"NA","","IS","90.7","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","d3-MeFOSAA","d3-MeFOSAA","64.8","%R","",-99,"NA","","IS","64.8","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","d5-EtFOSAA","d5-EtFOSAA","63.2","%R","",-99,"NA","","IS","63.2","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFUnA","13C2-PFUnA","62.5","%R","",-99,"NA","","IS","62.5","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFDoA","13C2-PFDoA","71.2","%R","",-99,"NA","","IS","71.2","",-99,"NA","YES","100","","0.254","0.001","-99",""

"FT-PZ464S-FRB-20181211","Modified EPA 537","Initial","1804077-06","Vista","13C2-PFTeDA","13C2-PFTeDA","68.3","%R","",-99,"NA","","IS","68.3","",-99,"NA","YES","100","","0.254","0.001","-99",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","375-22-4","PFBA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","2706-90-3","PFPeA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","375-73-5","PFBS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","307-24-4","PFHxA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","375-85-9","PFHpA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","355-46-4","PFHxS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","27619-97-2","6:2 FTS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","335-67-1","PFOA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","375-92-8","PFHpS","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","375-95-1","PFNA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","754-91-6","PFOSA","2.50","ng/L","UU","1.37","LOD","","TRG","","","4.00","LOQ","YES","-99","","0.250","0.001","2.50",""

"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","1763-23-

1", "PFOS", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "335-76-
2", "PFDA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "39108-34-4", "8:2
FTS", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "2355-31-
9", "MeFOSAA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.5
0", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "2991-50-
6", "EtFOSAA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50
", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "2058-94-
8", "PFUnA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "335-77-
3", "PFDS", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "307-55-
1", "PFDoA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "72629-94-
8", "PFTTrDA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "376-06-
7", "PFTeDA", "2.50", "ng/L", "UU", "1.37", "LOD", "", "TRG", "", "", "4.00", "LOQ", "YES", "-99", "", "0.250", "0.001", "2.50", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C3-PFBA", "13C3-
PFBA", "90.6", "%R", "", "-99", "NA", "", "IS", "90.6", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C3-PFPeA", "13C3-
PFPeA", "88.3", "%R", "", "-99", "NA", "", "IS", "88.3", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C3-PFBS", "13C3-
PFBS", "80.3", "%R", "", "-99", "NA", "", "IS", "80.3", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C2-PFHxA", "13C2-
PFHxA", "82.0", "%R", "", "-99", "NA", "", "IS", "82.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C4-PFHpA", "13C4-
PFHpA", "86.5", "%R", "", "-99", "NA", "", "IS", "86.5", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "18O2-PFHxS", "18O2-
PFHxS", "93.9", "%R", "", "-99", "NA", "", "IS", "93.9", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS", "97.0", "%R", "", "-99", "NA", "", "IS", "97.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C2-PFOA", "13C2-
PFOA", "88.0", "%R", "", "-99", "NA", "", "IS", "88.0", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C5-PFNA", "13C5-
PFNA", "77.5", "%R", "", "-99", "NA", "", "IS", "77.5", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C8-PFOSA", "13C8-
PFOSA", "57.8", "%R", "", "-99", "NA", "", "IS", "57.8", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C8-PFOS", "13C8-
PFOS", "89.4", "%R", "", "-99", "NA", "", "IS", "89.4", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C2-PFDA", "13C2-
PFDA", "65.8", "%R", "", "-99", "NA", "", "IS", "65.8", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS", "108", "%R", "", "-99", "NA", "", "IS", "108", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "d3-MeFOSAA", "d3-
MeFOSAA", "62.7", "%R", "", "-99", "NA", "", "IS", "62.7", "", "-99", "NA", "YES", "100", "", "0.250", "0.001", "-99", ""
"B8L0144-BLK1", "Modified EPA 537", "Initial", "B8L0144-BLK1", "Vista", "d5-EtFOSAA", "d5-

EtFOSAA,"64.8","%R",,"-99","NA",,"IS","64.8",,"-99","NA","YES","100",,"0.250","0.001","-99",,"
"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","13C2-PFUnA","13C2-
PFUnA","68.1","%R",,"-99","NA",,"IS","68.1",,"-99","NA","YES","100",,"0.250","0.001","-99",,"
"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","13C2-PFDoA","13C2-
PFDoA","72.0","%R",,"-99","NA",,"IS","72.0",,"-99","NA","YES","100",,"0.250","0.001","-99",,"
"B8L0144-BLK1","Modified EPA 537","Initial","B8L0144-BLK1","Vista","13C2-PFTeDA","13C2-
PFTeDA","65.4","%R",,"-99","NA",,"IS","65.4",,"-99","NA","YES","100",,"0.250","0.001","-99",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","375-22-
4","PFBA","41.2","ng/L",,"1.37","LOD",,"TRG","103",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","2706-90-
3","PFPeA","41.6","ng/L",,"1.37","LOD",,"TRG","104",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","375-73-
5","PFBS","44.4","ng/L",,"1.37","LOD",,"TRG","111",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","307-24-
4","PFHxA","42.7","ng/L",,"1.37","LOD",,"TRG","107",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","375-85-
9","PFHpA","39.0","ng/L",,"1.37","LOD",,"TRG","97.5",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","355-46-
4","PFHxS","42.5","ng/L",,"1.37","LOD",,"TRG","106",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","27619-97-2","6:2
FTS","43.0","ng/L",,"1.37","LOD",,"TRG","107",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","335-67-
1","PFOA","40.1","ng/L",,"1.37","LOD",,"TRG","100",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","375-92-
8","PFHpS","46.1","ng/L",,"1.37","LOD",,"TRG","115",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","375-95-
1","PFNA","44.1","ng/L",,"1.37","LOD",,"TRG","110",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","754-91-
6","PFOSA","41.3","ng/L",,"1.37","LOD",,"TRG","103",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","1763-23-
1","PFOS","42.9","ng/L",,"1.37","LOD",,"TRG","107",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","335-76-
2","PFDA","43.7","ng/L",,"1.37","LOD",,"TRG","109",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","39108-34-4","8:2
FTS","42.4","ng/L",,"1.37","LOD",,"TRG","106",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","2355-31-
9","MeFOSAA","40.0","ng/L",,"1.37","LOD",,"TRG","100",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","2991-50-
6","EtFOSAA","45.6","ng/L",,"1.37","LOD",,"TRG","114",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","2058-94-
8","PFUnA","43.0","ng/L",,"1.37","LOD",,"TRG","107",,"4.00","LOQ","YES","40.0",,"0.250","0.001","2.50",,"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","335-77-

3","PFDS","39.9","ng/L","","1.37","LOD","","TRG","99.8","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50","
"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","307-55-
1","PFDa","39.9","ng/L","","1.37","LOD","","TRG","99.8","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50","
"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","72629-94-
8","PFTTrDA","40.5","ng/L","","1.37","LOD","","TRG","101","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50"
"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","376-06-
7","PFTeDA","40.0","ng/L","","1.37","LOD","","TRG","100","","4.00","LOQ","YES","40.0","","0.250","0.001","2.50"
"
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C3-PFBA","13C3-
PFBA","85.0","%R","","-99","NA","","IS","85.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C3-PFPeA","13C3-
PFPeA","83.6","%R","","-99","NA","","IS","83.6","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C3-PFBS","13C3-
PFBS","77.1","%R","","-99","NA","","IS","77.1","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFHxA","13C2-
PFHxA","81.7","%R","","-99","NA","","IS","81.7","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C4-PFHpA","13C4-
PFHpA","86.5","%R","","-99","NA","","IS","86.5","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","18O2-PFHxS","18O2-
PFHxS","85.6","%R","","-99","NA","","IS","85.6","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-6:2 FTS","13C2-6:2
FTS","85.7","%R","","-99","NA","","IS","85.7","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFOA","13C2-
PFOA","82.5","%R","","-99","NA","","IS","82.5","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C5-PFNA","13C5-
PFNA","73.6","%R","","-99","NA","","IS","73.6","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C8-PFOA","13C8-
PFOA","62.4","%R","","-99","NA","","IS","62.4","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C8-PFOS","13C8-
PFOS","80.0","%R","","-99","NA","","IS","80.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFDA","13C2-
PFDA","64.0","%R","","-99","NA","","IS","64.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-8:2 FTS","13C2-8:2
FTS","95.7","%R","","-99","NA","","IS","95.7","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","d3-MeFOSAA","d3-
MeFOSAA","59.9","%R","","-99","NA","","IS","59.9","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","d5-EtFOSAA","d5-
EtFOSAA","61.3","%R","","-99","NA","","IS","61.3","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFUnA","13C2-
PFUnA","59.7","%R","","-99","NA","","IS","59.7","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFDa","13C2-
PFDa","65.2","%R","","-99","NA","","IS","65.2","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-BS1","Modified EPA 537","Initial","B8L0144-BS1","Vista","13C2-PFTeDA","13C2-
PFTeDA","63.0","%R","","-99","NA","","IS","63.0","","-99","NA","YES","100","","0.250","0.001","-99",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","375-22-
4","PFBA","52.1","ng/L","","1.48","LOD","","TRG","102","","4.31","LOQ","YES","43.1","FT-PZ458I-
20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","2706-90-
3","PFPeA","61.4","ng/L","","1.48","LOD","","TRG","101","","4.31","LOQ","YES","43.1","FT-PZ458I-
20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","375-73-

5","PFBS","46.6","ng/L","","1.48","LOD","","TRG","105","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","307-24-4","PFHxA","82.6","ng/L","","1.48","LOD","","TRG","97.9","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","375-85-9","PFHpA","64.5","ng/L","","1.48","LOD","","TRG","99.8","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","355-46-4","PFHxS","56.0","ng/L","","1.48","LOD","","TRG","107","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","27619-97-2","6:2 FTS","98.0","ng/L","","1.48","LOD","","TRG","96.9","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","335-67-1","PFOA","79.2","ng/L","","1.48","LOD","","TRG","100","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","375-92-8","PFHpS","47.2","ng/L","","1.48","LOD","","TRG","108","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","375-95-1","PFNA","513","ng/L","","1.48","LOD","","TRG","70.4","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","754-91-6","PFOSA","49.4","ng/L","","1.48","LOD","","TRG","115","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","1763-23-1","PFOS","66.4","ng/L","","1.48","LOD","","TRG","93.8","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","335-76-2","PFDA","52.6","ng/L","","1.48","LOD","","TRG","107","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","39108-34-4","8:2 FTS","50.7","ng/L","","1.48","LOD","","TRG","96.4","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","2355-31-9","MeFOSAA","51.7","ng/L","","1.48","LOD","","TRG","120","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","2991-50-6","EtFOSAA","57.9","ng/L","","1.48","LOD","","TRG","117","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","2058-94-8","PFUnA","43.2","ng/L","","1.48","LOD","","TRG","100","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","335-77-3","PFDS","46.4","ng/L","","1.48","LOD","","TRG","108","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","307-55-1","PFDoA","43.3","ng/L","","1.48","LOD","","TRG","101","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","72629-94-8","PFTTrDA","44.7","ng/L","","1.48","LOD","","TRG","104","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69",""
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","376-06-

7","PFTeDA","45.7","ng/L","","","1.48","LOD","","","TRG","106","","","4.31","LOQ","YES","43.1","FT-PZ458I-20181211","0.232","0.001","2.69","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C3-PFBA","13C3-PFBA","87.3","%R","","-99","NA","","","IS","87.3","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C3-PFPeA","13C3-PFPeA","85.6","%R","","-99","NA","","","IS","85.6","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C3-PFBS","13C3-PFBS","77.7","%R","","-99","NA","","","IS","77.7","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFHxA","13C2-PFHxA","83.2","%R","","-99","NA","","","IS","83.2","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C4-PFHpA","13C4-PFHpA","84.2","%R","","-99","NA","","","IS","84.2","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","18O2-PFHxS","18O2-PFHxS","79.8","%R","","-99","NA","","","IS","79.8","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-6:2 FTS","13C2-6:2 FTS","88.0","%R","","-99","NA","","","IS","88.0","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFOA","13C2-PFOA","87.2","%R","","-99","NA","","","IS","87.2","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C5-PFNA","13C5-PFNA","80.5","%R","","-99","NA","","","IS","80.5","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C8-PFOA","13C8-PFOA","50.6","%R","","-99","NA","","","IS","50.6","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
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"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFDA","13C2-PFDA","70.3","%R","","-99","NA","","","IS","70.3","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-8:2 FTS","13C2-8:2 FTS","101","%R","","-99","NA","","","IS","101","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","d3-MeFOSAA","d3-MeFOSAA","58.9","%R","","-99","NA","","","IS","58.9","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","d5-EtFOSAA","d5-EtFOSAA","68.6","%R","","-99","NA","","","IS","68.6","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFUnA","13C2-PFUnA","72.1","%R","","-99","NA","","","IS","72.1","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFDoA","13C2-PFDoA","74.8","%R","","-99","NA","","","IS","74.8","","-99","NA","YES","100","FT-PZ458I-20181211","0.232","0.001","-99","","
"B8L0144-MS1","Modified EPA 537","Initial","B8L0144-MS1","Vista","13C2-PFTeDA","13C2-

PFTeDA", "71.8", "%R", "", "-99", "NA", "", "IS", "71.8", "", "-99", "NA", "YES", "100", "FT-PZ458I-20181211", "0.232", "0.001", "-99", ""
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"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "2706-90-3", "PFPeA", "60.5", "ng/L", "", "1.46", "LOD", "", "TRG", "99.9", "1.10", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "375-73-5", "PFBS", "45.7", "ng/L", "", "1.46", "LOD", "", "TRG", "104", "0.957", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "307-24-4", "PFHxA", "81.9", "ng/L", "", "1.46", "LOD", "", "TRG", "97.4", "0.512", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "375-85-9", "PFHpA", "63.0", "ng/L", "", "1.46", "LOD", "", "TRG", "97.6", "2.23", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "355-46-4", "PFHxS", "52.8", "ng/L", "", "1.46", "LOD", "", "TRG", "100", "6.76", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "27619-97-2", "6:2 FTS", "96.1", "ng/L", "", "1.46", "LOD", "", "TRG", "93.6", "3.46", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "335-67-1", "PFOA", "77.7", "ng/L", "", "1.46", "LOD", "", "TRG", "97.9", "2.12", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "375-92-8", "PFHpS", "44.6", "ng/L", "", "1.46", "LOD", "", "TRG", "103", "4.74", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "375-95-1", "PFNA", "525", "ng/L", "H", "1.46", "LOD", "", "TRG", "101", "35.7", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "754-91-6", "PFOSA", "50.0", "ng/L", "Q", "1.46", "LOD", "", "TRG", "117", "1.72", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
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"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "335-76-2", "PFDA", "50.1", "ng/L", "", "1.46", "LOD", "", "TRG", "102", "4.78", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "39108-34-4", "8:2 FTS", "49.8", "ng/L", "", "1.46", "LOD", "", "TRG", "95.4", "1.04", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "2355-31-9", "MeFOSAA", "44.9", "ng/L", "", "1.46", "LOD", "", "TRG", "105", "13.3", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "2991-50-6", "EtFOSAA", "52.2", "ng/L", "", "1.46", "LOD", "", "TRG", "105", "10.8", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "2058-94-8", "PFUnA", "38.9", "ng/L", "", "1.46", "LOD", "", "TRG", "91.3", "9.10", "4.26", "LOQ", "YES", "42.6", "FT-PZ458I-20181211", "0.235", "0.001", "2.66", ""
"B8L0144-MSD1", "Modified EPA 537", "Initial", "B8L0144-MSD1", "Vista", "335-77-

3","PFDS","45.2","ng/L","","1.46","LOD","","TRG","106","1.87","4.26","LOQ","YES","42.6","FT-PZ458I-20181211","0.235","0.001","2.66",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","307-55-1","PFD_oA","41.6","ng/L","","1.46","LOD","","TRG","97.7","3.32","4.26","LOQ","YES","42.6","FT-PZ458I-20181211","0.235","0.001","2.66",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","72629-94-8","PFT_rDA","42.3","ng/L","","1.46","LOD","","TRG","99.2","4.72","4.26","LOQ","YES","42.6","FT-PZ458I-20181211","0.235","0.001","2.66",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","376-06-7","PFT_eDA","42.2","ng/L","","1.46","LOD","","TRG","99.0","6.83","4.26","LOQ","YES","42.6","FT-PZ458I-20181211","0.235","0.001","2.66",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C3-PFBA","13C3-PFBA","86.5","%R","","-99","NA","","IS","86.5","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C3-PFPeA","13C3-PFPeA","83.6","%R","","-99","NA","","IS","83.6","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C3-PFBS","13C3-PFBS","77.7","%R","","-99","NA","","IS","77.7","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFHxA","13C2-PFHxA","80.6","%R","","-99","NA","","IS","80.6","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C4-PFHpA","13C4-PFHpA","84.4","%R","","-99","NA","","IS","84.4","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","18O2-PFHxS","18O2-PFHxS","87.3","%R","","-99","NA","","IS","87.3","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-6:2 FTS","13C2-6:2 FTS","87.9","%R","","-99","NA","","IS","87.9","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFOA","13C2-PFOA","89.9","%R","","-99","NA","","IS","89.9","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C5-PFNA","13C5-PFNA","76.9","%R","","-99","NA","","IS","76.9","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C8-PFOA","13C8-PFOA","46.4","%R","H","-99","NA","","IS","46.4","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C8-PFOS","13C8-PFOS","87.4","%R","","-99","NA","","IS","87.4","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFDA","13C2-PFDA","70.9","%R","","-99","NA","","IS","70.9","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-8:2 FTS","13C2-8:2 FTS","108","%R","","-99","NA","","IS","108","","-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
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"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","d5-EtFOSAA","d5-

EtFOSAA","64.4","%R","",-99","NA","","IS","64.4","",-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFUnA","13C2-PFUnA","69.8","%R","",-99","NA","","IS","69.8","",-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFDoA","13C2-PFDoA","73.6","%R","",-99","NA","","IS","73.6","",-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
"B8L0144-MSD1","Modified EPA 537","Initial","B8L0144-MSD1","Vista","13C2-PFTeDA","13C2-PFTeDA","72.9","%R","",-99","NA","","IS","72.9","",-99","NA","YES","100","FT-PZ458I-20181211","0.235","0.001","-99",""
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"112608005-WE05","112608005-WE05","FT-PZ460I-20181211","12/11/2018 11:25","AQ","1804077-02","NM","","2.00","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 19:58","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","12/13/2018 10:11","01/01/1900 00:00",""
"112608005-WE05","112608005-WE05","FT-PZ461I-20181211","12/11/2018 12:45","AQ","1804077-03","NM","","2.00","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 20:08","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","12/13/2018 10:11","01/01/1900 00:00",""
"112608005-WE05","112608005-WE05","FT-PZ464S-20181211","12/11/2018 15:10","AQ","1804077-04","NM","","2.00","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 20:19","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","12/13/2018 10:11","01/01/1900 00:00",""
"112608005-WE05","112608005-WE05","DUP01-20181211","12/11/2018 12:30","AQ","1804077-05","NM","","2.00","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 20:51","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","12/13/2018 10:11","01/01/1900 00:00",""
"112608005-WE05","112608005-WE05","FT-PZ464S-FRB-20181211","12/11/2018 15:10","AQ","1804077-06","NM","","2.00","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 21:01","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","12/13/2018 10:11","01/01/1900 00:00",""
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"112608005-WE05","112608005-WE05","B8L0144-BS1","01/01/1900 00:00","AQ","B8L0144-BS1","LCS","",-99","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 18:33","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","01/01/1900 00:00","01/01/1900 00:00",""
"112608005-WE05","112608005-WE05","B8L0144-MS1","01/01/1900 00:00","AQ","B8L0144-MS1","MS","",-99","Modified EPA 537","METHOD","Initial","12/19/2018 08:45","12/31/2018 18:43","Vista","COA","WET","NA","1","NA","NA","01/01/1900 00:00","100","B8L0144","B8L0144","NA","S8L0076","1804077","01/01/1900 00:00","01/01/1900 00:00",""
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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 Percent Recoveries (%Rs) for the extraction internal standard compound, 13C8-perfluorooctane sulfonamide (13C8-PFOA), was below the 50% quality control limit in all samples except sample FT-PZ4581-20181211. The non-detected results reported for the associated compound, perfluorooctane sulfonamide (FOA), in these samples were qualified as estimated, (UJ). The samples were not re-extracted.

Additional Comments

The FRB was free of contamination.

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. **Executive Summary**

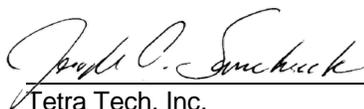
Laboratory Performance Issues: Four samples and the FRB had low %Rs for one extraction internal standard affecting one compound in each sample.

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), EPA Method 537 Modified, 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.
Michelle L. Woeber
Chemist/Data Validator



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

Attachments:

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

Data Qualifier Definitions

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

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

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

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.51	U		56.2			2.63	U		182		
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.51	U		9.15			2.63	U		7.95		
N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.51	U		7.4			2.63	U		3.01	J	P
N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.51	U		2.67	U		2.63	U		2.64	U	
PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	8.65			35.9			9.51			84.1		
PERFLUOROBUTANESULFONIC ACID (PFBS)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUOROBUTANOIC ACID (PFBA)	2.02	J	P	8.12			2.07	J	P	14.7		
PERFLUORODECANESULFONIC ACID (PFDS)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUORODECANOIC ACID (PFDA)	2.51	U		6.5			2.63	U		8.61		
PERFLUORODODECANOIC ACID (PFDOA)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUOROHEPTANOIC ACID (PFHPA)	3.55	J	P	21.5			3.63	J	P	60		
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.99	J	P	10.1			1.76	J	P	2.21	J	P
PERFLUOROHEXANOIC ACID (PFHXA)	5.52			40.4			5.96			99.5		
PERFLUORONONANOIC ACID (PFNA)	46.9			482			48.6			2020		
PERFLUOROOCCTANE SULFONAMIDE (FOSA)	2.51	UJ	N	2.67	U		2.63	UJ	N	2.64	UJ	N
PERFLUOROOCCTANESULFONIC ACID (PFOS)	1.6	J	P	26			2.52	J	P	5.47		
PERFLUOROPENTANOIC ACID (PFPEA)	4.69			17.9			4.57			31.3		
PERFLUOROTETRADECANOIC ACID (PFTEA)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.51	U		2.67	U		2.63	U		2.64	U	
PERFLUOROUNDECANOIC ACID (PFUNA)	2.51	U		2.67	U		2.63	U		2.64	U	

PROJ_NO: 08005-WE05 SDG: 1804077 FRACTION: PFAS MEDIA: WATER	NSAMPLE	FT-PZ464S-20181211			FT-PZ464S-FRB-20181211		
	LAB_ID	1804077-04			1804077-06		
	SAMP_DATE	12/11/2018			12/11/2018		
	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.69	U		2.46	U		
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.69	U		2.46	U		
N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.69	U		2.46	U		
N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.69	U		2.46	U		
PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	2.69	U		2.46	U		
PERFLUOROBUTANESULFONIC ACID (PFBS)	2.69	U		2.46	U		
PERFLUOROBUTANOIC ACID (PFBA)	2.69	U		2.46	U		
PERFLUORODECANESULFONIC ACID (PFDS)	2.69	U		2.46	U		
PERFLUORODECANOIC ACID (PFDA)	2.69	U		2.46	U		
PERFLUORODODECANOIC ACID (PFDOA)	2.69	U		2.46	U		
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.69	U		2.46	U		
PERFLUOROHEPTANOIC ACID (PFHPA)	2.69	U		2.46	U		
PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.69	U		2.46	U		
PERFLUOROHEXANOIC ACID (PFHXA)	2.69	U		2.46	U		
PERFLUORONONANOIC ACID (PFNA)	2.69	U		2.46	U		
PERFLUOROOCCTANE SULFONAMIDE (FOSA)	2.69	UJ	N	2.46	UJ	N	
PERFLUOROOCCTANESULFONIC ACID (PFOS)	2.69	U		2.46	U		
PERFLUOROPENTANOIC ACID (PFPEA)	2.69	U		2.46	U		
PERFLUOROTETRADECANOIC ACID (PFTEA)	2.69	U		2.46	U		
PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.69	U		2.46	U		
PERFLUOROUNDECANOIC ACID (PFUNA)	2.69	U		2.46	U		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Sample ID: FT-PZ458I-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data							
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-01	Column:	BEH C18				
Project:	112608005-WE05	Date Collected:	11-Dec-18 09:55	Date Received:	13-Dec-18 10:11						
SDG:	# WE05										

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.12	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFPeA	2706-90-3	17.9	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFBS	375-73-5	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFHxA	307-24-4	40.4	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFHpA	375-85-9	21.5	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFHxS	355-46-4	10.1	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
6:2 FTS	27619-97-2	56.2	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFOA	335-67-1	35.9	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFHpS	375-92-8	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFNA	375-95-1	482	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFOSA	754-91-6	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFOS	1763-23-1	26.0	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFDA	335-76-2	6.50	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
8:2 FTS	39108-34-4	9.15	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
MeFOSAA	2355-31-9	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
EtFOSAA	2991-50-6	7.40	1.46	2.67	4.28		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFUnA	2058-94-8	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFDS	335-77-3	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFDoA	307-55-1	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFTrDA	72629-94-8	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
PFTeDA	376-06-7	ND	1.46	2.67	4.28	U	B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.0	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C3-PFPeA	IS	85.5	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C3-PFBS	IS	81.3	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFHxA	IS	83.0	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C4-PFHpA	IS	88.1	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
18O2-PFHxS	IS	96.0	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-6:2 FTS	IS	83.3	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFOA	IS	86.0	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C5-PFNA	IS	80.1	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C8-PFOSA	IS	82.1	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C8-PFOS	IS	83.8	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFDA	IS	72.0	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1

Sample ID: FT-PZ458I-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-01	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 09:55	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	91.1	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
d3-MeFOSAA	IS	61.7	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
d5-EtFOSAA	IS	61.4	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFUnA	IS	67.6	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFDoA	IS	80.8	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1
13C2-PFTeDA	IS	73.8	50 - 150		B8L0144	19-Dec-18	0.234 L	31-Dec-18 19:47	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: FT-PZ460I-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-02	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 11:25	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.07	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFPeA	2706-90-3	4.57	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFBS	375-73-5	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHxA	307-24-4	5.96	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHpA	375-85-9	3.63	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHxS	355-46-4	1.76	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
6:2 FTS	27619-97-2	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOA	335-67-1	9.51	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHpS	375-92-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFNA	375-95-1	48.6	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOSA	754-91-6	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOS	1763-23-1	2.52	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDA	335-76-2	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
8:2 FTS	39108-34-4	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
MeFOSAA	2355-31-9	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
EtFOSAA	2991-50-6	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFUnA	2058-94-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDS	335-77-3	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDoA	307-55-1	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFTrDA	72629-94-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFTeDA	376-06-7	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.3	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C3-PFPeA	IS	87.3	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C3-PFBS	IS	79.9	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFHxA	IS	80.1	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C4-PFHpA	IS	88.7	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
18O2-PFHxS	IS	90.2	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-6:2 FTS	IS	101	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFOA	IS	86.6	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C5-PFNA	IS	78.5	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C8-PFOSA	IS	40.0	50 - 150	H	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C8-PFOS	IS	84.6	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFDA	IS	74.0	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1

Sample ID: FT-PZ460I-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-02	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 11:25	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	93.9	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
d3-MeFOSAA	IS	63.5	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
d5-EtFOSAA	IS	66.9	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFUnA	IS	71.2	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFDoA	IS	80.1	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFTeDA	IS	70.8	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: FT-PZ461I-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-03	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:45	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.7	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFPeA	2706-90-3	31.3	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFBS	375-73-5	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHxA	307-24-4	99.5	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHpA	375-85-9	60.0	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHxS	355-46-4	2.21	1.45	2.64	4.22	J, Q	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
6:2 FTS	27619-97-2	182	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOA	335-67-1	84.1	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHpS	375-92-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFNA	375-95-1	2020	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOSA	754-91-6	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOS	1763-23-1	5.47	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDA	335-76-2	8.61	1.45	2.64	4.22	Q	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
8:2 FTS	39108-34-4	7.95	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
MeFOSAA	2355-31-9	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
EtFOSAA	2991-50-6	3.01	1.45	2.64	4.22	J	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFUnA	2058-94-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDS	335-77-3	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDoA	307-55-1	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFTTrDA	72629-94-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFTeDA	376-06-7	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.5	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C3-PFPeA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C3-PFBS	IS	82.5	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFHxA	IS	88.9	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C4-PFHpA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
18O2-PFHxS	IS	89.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-6:2 FTS	IS	87.2	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFOA	IS	92.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C5-PFNA	IS	77.1	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C8-PFOSA	IS	27.9	50 - 150	H	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C8-PFOS	IS	88.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFDA	IS	73.7	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1

Sample ID: FT-PZ461I-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-03	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:45	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	94.1	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
d3-MeFOSAA	IS	64.9	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
d5-EtFOSAA	IS	71.4	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFUnA	IS	70.7	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFDoA	IS	81.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFTeDA	IS	73.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: FT-PZ464S-20181211
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-04	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFPeA	2706-90-3	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFBS	375-73-5	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHxA	307-24-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHpA	375-85-9	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHxS	355-46-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
6:2 FTS	27619-97-2	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOA	335-67-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHpS	375-92-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFNA	375-95-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOSA	754-91-6	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOS	1763-23-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDA	335-76-2	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
8:2 FTS	39108-34-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
MeFOSAA	2355-31-9	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
EtFOSAA	2991-50-6	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFUnA	2058-94-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDS	335-77-3	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDoA	307-55-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFTTrDA	72629-94-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFTeDA	376-06-7	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.5	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C3-PFPeA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C3-PFBS	IS	86.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFHxA	IS	84.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C4-PFHpA	IS	86.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
18O2-PFHxS	IS	93.6	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-6:2 FTS	IS	89.9	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFOA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C5-PFNA	IS	78.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C8-PFOSA	IS	27.8	50 - 150	H	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C8-PFOS	IS	84.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFDA	IS	66.7	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1

Sample ID: FT-PZ464S-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-04	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	90.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
d3-MeFOSAA	IS	73.1	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
d5-EtFOSAA	IS	74.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFUnA	IS	71.1	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFDoA	IS	77.6	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFTeDA	IS	77.0	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: DUP01-20181211
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-05	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:30	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.02	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFPeA	2706-90-3	4.69	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFBS	375-73-5	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHxA	307-24-4	5.52	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHpA	375-85-9	3.55	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHxS	355-46-4	1.99	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
6:2 FTS	27619-97-2	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOA	335-67-1	8.65	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHpS	375-92-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFNA	375-95-1	46.9	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOSA	754-91-6	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOS	1763-23-1	1.60	1.38	2.51	4.02	J, Q	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDA	335-76-2	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
8:2 FTS	39108-34-4	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
MeFOSAA	2355-31-9	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
EtFOSAA	2991-50-6	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFUnA	2058-94-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDS	335-77-3	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDoA	307-55-1	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFTTrDA	72629-94-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFTeDA	376-06-7	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C3-PFPeA	IS	91.7	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C3-PFBS	IS	85.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFHxA	IS	86.2	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C4-PFHpA	IS	87.0	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
18O2-PFHxS	IS	93.3	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-6:2 FTS	IS	88.3	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFOA	IS	87.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C5-PFNA	IS	83.0	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C8-PFOSA	IS	32.3	50 - 150	H	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C8-PFOS	IS	83.2	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFDA	IS	73.4	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1

Sample ID: DUP01-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-05	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:30	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	91.8	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
d3-MeFOSAA	IS	68.0	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
d5-EtFOSAA	IS	66.6	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFUnA	IS	68.1	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFDoA	IS	79.6	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFTeDA	IS	76.6	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: FT-PZ464S-FRB-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1804077-06	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFPeA	2706-90-3	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFBS	375-73-5	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHxA	307-24-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHpA	375-85-9	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHxS	355-46-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
6:2 FTS	27619-97-2	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOA	335-67-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHpS	375-92-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFNA	375-95-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOSA	754-91-6	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOS	1763-23-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDA	335-76-2	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
8:2 FTS	39108-34-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
MeFOSAA	2355-31-9	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
EtFOSAA	2991-50-6	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFUnA	2058-94-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDS	335-77-3	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDoA	307-55-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFTTrDA	72629-94-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFTeDA	376-06-7	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C3-PFPeA	IS	88.5	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C3-PFBS	IS	80.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFHxA	IS	82.9	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C4-PFHpA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
18O2-PFHxS	IS	92.4	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-6:2 FTS	IS	96.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFOA	IS	85.8	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C5-PFNA	IS	76.6	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C8-PFOSA	IS	24.9	50 - 150	H	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C8-PFOS	IS	83.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFDA	IS	64.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1

Sample ID: FT-PZ464S-FRB-20181211 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1804077-06	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	90.7	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
d3-MeFOSAA	IS	64.8	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
d5-EtFOSAA	IS	63.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFUnA	IS	62.5	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFDoA	IS	71.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFTeDA	IS	68.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

APPENDIX C

SUPPORT DOCUMENTATION

NWIRP CALVERTON
SDG 1804077

SAMPLE ID
COMPOUND

FT-PZ461I-20181211 (1804077-03)
PFNA

INTERNAL STANDARD (IS) CONCENTRATION
AREA
IS AREA
WEIGHT/VOLUME (WT)

12.5
4.39E+05
9.12E+03
0.237

$$y = \text{AREA} * (\text{IS CONC} / \text{IS AREA})$$

$$y = 601.70$$

INITIAL CALIBRATION CURVE (y) = $-2.05618E-5 * x^2 + 1.26573 * x - 0.0640136$

QUADRATIC EQUATION: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$$x = 4.79E+02$$

$$-2.05618E-05 * x^2 + 1.26573 * x - 0.0640136 = 601.7$$

$$-2.05618E-05 * x^2 + 1.26573 * x - 601.76401 = 0$$

Where:

a -2.06E-05
b 1.26573
c -601.76401

$b^2 - 4ac$ 1.552579028

$\text{SQRT}(b^2 - 4ac)$ 1.246025292

CONCENTRATION (x/WT) 2021.764348 ng/L
REPORTED CONCENTRATION 2020 ng/L

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-58.qld

MM 1/3/2019

Last Altered: Wednesday, January 02, 2019 17:41:31 Pacific Standard Time

Printed: Wednesday, January 02, 2019 17:41:38 Pacific Standard Time

Name: 181231M1_58, Date: 31-Dec-2018, Time: 20:08:42, ID: 1804077-03 FT-PZ461I-20181211 0.23672, Description: FT-PZ461I-20181211

#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	2.15e3	6.64e3	0.237		1.30	4.04	14.6758			
2	2 PFPeA	263.1 > 218.9	5.05e3	8.30e3	0.237		2.58	7.62	31.3067			
3	3 PFBS	299.0 > 79.7		1.17e3	0.237							
4	5 PFHxA	313 > 269	2.83e4	6.06e3	0.237		3.49	23.3	99.5252		14.1	NO
5	7 PFHpA	363.0 > 318.9	1.32e4	7.85e3	0.237		4.14	21.0	60.0497		14.0	NO
6	36 13C3-PFBA	216.1 > 171.8	6.64e3	1.01e4	0.237	0.727	1.29	8.22	47.7813	90.5		
7	37 13C3-PFPeA	266. > 221.8	8.30e3	1.80e4	0.237	0.511	2.58	5.77	47.6985	90.3		
8	38 13C3-PFBS	302. > 98.8	1.17e3	2.84e3	0.237	0.497	2.91	5.13	43.5398	82.5		
9	40 13C2-PFHxA	315 > 270	6.06e3	1.80e4	0.237	0.947	3.49	4.21	18.7760	88.9		
10	41 13C4-PFHpA	367.2 > 321.8	7.85e3	1.80e4	0.237	0.484	4.14	5.46	47.6672	90.3		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	8.40e1	1.06e3	0.237		4.27	0.994	2.2120		3.71	YES
13	68 Total PFHxS	398.9 > 79.6	8.40e1	1.06e3	0.237			0.994	2.2120			
14	10 6:2 FTS	427.1 > 407	1.53e4	2.52e3	0.237		4.57	76.1	181.7415		3.06	NO
15	11 L-PFOA	412.8 > 368.9	3.32e4	1.41e4	0.237		4.63	29.4	84.1034		3.32	NO
16	69 Total PFOA	412.8 > 368.9	3.32e4	1.41e4	0.237			29.4	84.1034			
17	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.84e3	0.237	0.414	4.27	4.65	47.4315	89.8		
18	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.84e3	0.237	0.414	4.27	4.65	47.4315	89.8		
19	43 13C2-6:2 FTS	428.9>80.9	2.52e3	3.14e3	0.237	0.920	4.58	10.0	46.0556	87.2		
20	44 13C2-PFOA	414.9 > 369.7	1.41e4	2.25e4	0.237	0.678	4.63	7.82	48.7410	92.3		
21	44 13C2-PFOA	414.9 > 369.7	1.41e4	2.25e4	0.237	0.678	4.63	7.82	48.7410	92.3		
22	-1											
23	13 PFHpS	449 > 80.0	7.71e0	2.89e3	0.237		4.73	0.0333	0.3862		3.51	YES
24	14 PFNA	463.0 > 418.8	4.39e5	9.12e3	0.237		5.06	602	2023.6605		4.58	NO
25	15 PFOSA	497.9 > 77.9		1.16e3	0.237							
26	16 L-PFOS	498.9 > 79.9	3.17e2	2.89e3	0.237		5.15	1.37	5.4723		3.00	NO
27	70 Total PFOS	498.9 > 79.9	3.17e2	2.89e3	0.237			1.37	5.4723			
28	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
29	45 13C5-PFNA	468.2 > 422.9	9.12e3	1.25e4	0.237	0.949	5.06	9.14	40.7007	77.1		
30	46 13C8-PFOSA	506.1 > 77.7	1.16e3	2.18e4	0.237	0.190	5.10	0.663	14.7477	27.9		
31	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
32	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
33	-1											
34	18 PFDA	513 > 468.8	2.35e3	1.16e4	0.237		5.44	2.54	8.6116		8.98	YES
35	19 8:2 FTS	527 > 506.9	7.45e2	3.28e3	0.237		5.41	2.84	7.9536		2.49	NO
36	21 L-MeFOSAA	570 > 419		2.27e3	0.237							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.27e3	0.237			0.000				

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%
PENTADEC AFLUORO OCTANOIC ACID (PFOA)	9.51	8.65	1.44	9.47	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	2.07	2.02	1.44	2.44	FALSE
PERFLUOROHEPTANOIC ACID (PFHPA)	3.63	3.55	1.44	2.23	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.76	1.99	1.44	12.27	FALSE
PERFLUOROHEXANOIC ACID (PFHXA)	5.96	5.52	1.44	7.67	FALSE
PERFLUORONONANOIC ACID (PFNA)	48.6	46.9	1.44	3.56	FALSE
PERFLUORO OCTANESULFONIC ACID (PFOS)	2.52	1.6	1.44	44.66	TRUE
PERFLUOROPENTANOIC ACID (PFPEA)	4.57	4.69	1.44	2.59	FALSE

ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2xRL
TRUE	TRUE	FALSE
FALSE	FALSE	FALSE
TRUE	TRUE	FALSE
FALSE	FALSE	FALSE
TRUE	TRUE	FALSE
TRUE	TRUE	FALSE
FALSE	FALSE	FALSE
TRUE	TRUE	FALSE

SDG 1804077

FT-PZ460I-20181211/DUP01-20181211



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 1804077 Temp: 20 °C
 Storage ID: WR-2 Storage Secured: Yes No

Project ID: 112608005-WEOS PO#: _____ Sampler: Brian Benfield/Leahie Gregory
 (name)

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

Invoice to: Name Brian Benfield Company Bruce Corp Address Bethune Benedict Rd City _____ State _____ Ph# _____ Fax# _____
 Relinquished by (printed name and signature) [Signature] Date 12/12/18 Time _____ Received by (printed name and signature) [Signature] Date 12/13/18 Time 1011

Relinquished by (printed name and signature) _____ Date _____ Time _____ Received by (printed name and signature) _____ Date _____ Time _____

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 Method of Shipment: Fedex Priority Overnight
 ATTN: Lab Custodian
 Tracking No.: 813152245390

Sample ID	Date	Time	Location/Sample Description	Add Analysis(es) Requested										Comments				
				Quantity	Type	Matrix	PFOM/PFOS	UCMR3 PFAS List:6	537 List: 14	Full List of 26	Other: Please List Below	Mod EPA Method 537	PFOM/PFOS		UCMR3 PFAS List:6	PFAS List: 14	EPA Method 537(DW only)	
FT-P2458I-20181211	12/11/18	0955	Colveton site 2	6	GW	X												MS/MSD
FT-P2460I-20181211	12/11/18	1125		2	GW	X												
FT-P2461I-20181211	12/11/18	1245		2	GW	X												
FT-P2464S-20181211	12/11/18	1510		2	GW	X												
DUP01-20181211	12/11/18	1230		2	GW	X												
FT-P2464S-7B-20181211	12/11/18	1510		2	Pg	X												

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:
 Name: Kristi Francisco
 Company: Tetra Tech
 Address: 5200 Lake Wright Dr
 City: Norfolk State: VA Zip: 23502
 Phone: (757) 748-9946 Fax: _____
 Email: kristi.francisco@tetra-tech.com

Container Types: P= HDPE, PJ= HDPE Jar
 Bottle Preservation Type: T = Thiosulfate, Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 O = Other: _____ TZ = Trizma: _____ SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other: GW = Groundwater

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1804077 TAT std

Samples Arrival:	Date/Time: 12/13/18 1011	Initials: WRB	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time: 12/13/18 1510	Initials: KE	Location: WR-2
			Shelf/Rack: A3/E7
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GSO	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 2.1 (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N		Thermometer ID: IR-4
Temp °C: 2.0 (corrected)			

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk #	8131 52245 390		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Preservation Documented:	Yes	No	NA
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	

Comments:

SDG Number # WE05

Vista Work Order No. 1804077

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

PFAS Isotope Dilution Method

The samples were extracted and analyzed for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537). The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

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 Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the LOQ. The OPR recoveries were within the method acceptance criteria.

As requested, an MS/MSD was performed on sample "FT-PZ458I-20181211". The MS/MSD recoveries for all analytes were within the acceptance criteria. The RPD was out of the acceptance criteria for PFNA. All other RPDs were within the acceptance criteria.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1804077-02	FT-PZ460I-20181211	PFAS Isotope Dilution Method	13C8-PFOA	H	40.0
1804077-03	FT-PZ461I-20181211	PFAS Isotope Dilution Method	13C8-PFOA	H	27.9
1804077-04	FT-PZ464S-20181211	PFAS Isotope Dilution Method	13C8-PFOA	H	27.8
1804077-05	DUP01-20181211	PFAS Isotope Dilution Method	13C8-PFOA	H	32.3
1804077-06	FT-PZ464S-FRB-20181211	PFAS Isotope Dilution Method	13C8-PFOA	H	24.9
B8L0144-MSD1	B8L0144-MSD1	PFAS Isotope Dilution Method	13C8-PFOA	H	46.4

H = Recovery was outside laboratory acceptance criteria.

In addition, the laboratory QC officer must read and sign a copy of the Quality Assurance Review Form displayed on the next page of this Attachment. Electronic deliverables are not considered to be complete without the accompanying Quality Assurance Review Form.

I Beiana Davis, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (916) 673-1520 if there are any questions or problems with the enclosed electronic deliverables.

Signature:  Title: QA Manager Date: 01/04/19

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
D	Dilution
DL	Detection limit
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
LOD	Limits of Detection
LOQ	Limits of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
Q	Ion ratio outside of 70-130% of Standard Ratio. (DOD PFAS projects only)
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

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

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1804077-01	FT-PZ458I-20181211	MS/MSD11-Dec-18 09:55	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL HDPE Bottle, 250 mL HDPE Bottle, 250 mL HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1804077-02	FT-PZ460I-20181211	11-Dec-18 11:25	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1804077-03	FT-PZ461I-20181211	11-Dec-18 12:45	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1804077-04	FT-PZ464S-20181211	11-Dec-18 15:10	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1804077-05	DUP01-20181211	11-Dec-18 12:30	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
1804077-06	FT-PZ464S-FRB-20181211	11-Dec-18 15:10	13-Dec-18 10:11	HDPE Bottle, 250 mL HDPE Bottle, 250 mL

Matrix: Aqueous

PREPARATION BENCH SHEET

Method: 537M PFAS DOD (LOQ as mRL)

B8L0144

Chemist: HR

Prep Date: 12/19/18

Prep Time: 8:45

Prepared using: Sonication Shaker SPE Extraction Centrifuge ID: _____

Date/Initials: <u>AE 12/17/18</u>		Balance ID: <u>HRMS-10</u>												
Cen	VISTA Sample ID	pH Before	pH After	Chlorine (Cl)	Drops HCl Added	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	SPE	ENVI-Carb	RS CHEM/WIT DATE		
<input type="checkbox"/>	B8L0144-BLK1	6	2	Ø	2	NA	NA	(0.250)	HR 12/19/18	HR 12/19/18	AE 12/23/18	FR 12/23/18		
<input type="checkbox"/>	B8L0144-BS1	6	2	Ø	2	↓	↓	(0.250)						
<input type="checkbox"/>	B8L0144-MS1 ③ 1804077-01	6	2	Ø	2	259.03	27.09	0.23194 ✓						
<input type="checkbox"/>	B8L0144-MSD1 1804077-01	6	2	Ø	2	263.01	28.08	0.23493 ✓						
<input type="checkbox"/>	1804061-01	6	2	Ø	2	137.39	26.81	0.11058						
<input type="checkbox"/>	1804061-02	6	2	Ø	2	137.76	26.92	0.11084						
<input type="checkbox"/>	1804061-03	6	2	Ø	2	143.85	26.84	0.11701						
<input type="checkbox"/>	1804061-04	6	2	Ø	2	145.09	29.17	0.11792						
<input type="checkbox"/>	1804077-01 ③	6	2	Ø	2	261.66	27.86	0.23380 ✓						
<input type="checkbox"/>	1804077-02	6	2	Ø	2	265.37	27.79	0.23758 ✓						
<input type="checkbox"/>	1804077-03	6	2	Ø	2	264.63	27.91	0.23672 ✓						
<input type="checkbox"/>	1804077-04 (A)	6	2	Ø	2	260.76	27.78	0.23223 ✓						
<input type="checkbox"/>	1804077-05 ③	6	2	Ø	2	275.98	27.30	0.24868 ✓						
<input type="checkbox"/>	1804077-06 (A) 12/17/18 AE	6	2	Ø	2	281.69	28.12	0.25357 ✓						

IS: 18L0301, 10mL, (V2)
 IS SUP: N/A
 NS: 18L0304, 10mL, (V4)
 NS SUP: N/A
 RS: 18L0302, 10mL, (V6)

SPE Chem: Strata-X-AW, 33um, 200mg, 6mL
 SPE Lot#: S18-005865
 ENVI-Carb Lot#: 18L2079
 Ele SOLV: MeOH/0.5%NH4OH in MeOH
 Final Volume(s) 1 mL

Notes:
 (A) "B" bottle used due to "A" bottle leaking from hole in bottom. 12/17/18 AE
 (3) HR 12/19/18
 (6) MAC 12/20/18
 * 12/17/18 AE

Comments: Assume 1 g = 1 mL
Cen = Centrifuged

- 1 = Sample centrifuged twice
- 2 = Sample deeply colored after centrifuge
- 3 = Cartridge sorbent discolored after SPE
- 4 = Sample clogged cartridge, additional cartridge(s) used
- 5 = Sample recombined at final volume

- 6 = Sample took longer to SPE, required stronger vacuum
- 7 = Required Nitrogen line to finish SPE
- 8 = Required Nitrogen line to finish elution
- 9 = Sample arrived with low volume
- 10 = Trizma added to QC (5g/L)

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1804061-01	0.11058 ✓	NA	NA	1000	19-Dec-18 08:45	HNR			QC Water	537M PFAS DOD (LOQ as
1804061-02	0.11084 ✓			1000	19-Dec-18 08:45	HNR			QC Water	537M PFAS DOD (LOQ as
1804061-03	0.11701 ✓			1000	19-Dec-18 08:45	HNR			QC Water	537M PFAS DOD (LOQ as
1804061-04	0.11792 ✓			1000	19-Dec-18 08:45	HNR			QC Water	537M PFAS DOD (LOQ as
1804077-01	0.2338 ✓			1000	19-Dec-18 08:45	HNR			Groundwater	537M PFAS DOD (LOQ as
1804077-02	0.23758 ✓			1000	19-Dec-18 08:45	HNR			Groundwater	537M PFAS DOD (LOQ as
1804077-03	0.23672 ✓			1000	19-Dec-18 08:45	HNR			Groundwater	537M PFAS DOD (LOQ as
1804077-04	0.23223 ✓			1000	19-Dec-18 08:45	HNR			Groundwater	537M PFAS DOD (LOQ as
1804077-05	0.24868 ✓			1000	19-Dec-18 08:45	HNR			Groundwater	537M PFAS DOD (LOQ as
1804077-06	0.25357 ✓			1000	19-Dec-18 08:45	HNR			Aqueous	537M PFAS DOD (LOQ as
B8L0144-BLK1	0.25 ✓			1000	19-Dec-18 08:45	HNR				QC
B8L0144-BS1	0.25 ✓			1000	19-Dec-18 08:45	HNR	18L0304 ✓	10 ✓		QC
B8L0144-MS1	0.23194 ✓			1000	19-Dec-18 08:45	HNR	18L0304 ✓	10 ✓		QC
B8L0144-MSD1	0.23493 ✓			1000	19-Dec-18 08:45	HNR	18L0304 ✓	10 ✓		QC

MAG 12/21/18

Sample ID: FT-PZ460I-20181211
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-02	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 11:25	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.07	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFPeA	2706-90-3	4.57	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFBS	375-73-5	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHxA	307-24-4	5.96	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHpA	375-85-9	3.63	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHxS	355-46-4	1.76	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
6:2 FTS	27619-97-2	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOA	335-67-1	9.51	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFHpS	375-92-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFNA	375-95-1	48.6	1.44	2.63	4.21		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOSA	754-91-6	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFOS	1763-23-1	2.52	1.44	2.63	4.21	J	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDA	335-76-2	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
8:2 FTS	39108-34-4	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
MeFOSAA	2355-31-9	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
EtFOSAA	2991-50-6	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFUnA	2058-94-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDS	335-77-3	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFDoA	307-55-1	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFTTrDA	72629-94-8	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
PFTeDA	376-06-7	ND	1.44	2.63	4.21	U	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.3	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C3-PFPeA	IS	87.3	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C3-PFBS	IS	79.9	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFHxA	IS	80.1	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C4-PFHpA	IS	88.7	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
18O2-PFHxS	IS	90.2	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-6:2 FTS	IS	101	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFOA	IS	86.6	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C5-PFNA	IS	78.5	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C8-PFOSA	IS	40.0	50 - 150	H	B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C8-PFOS	IS	84.6	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1
13C2-PFDA	IS	74.0	50 - 150		B8L0144	19-Dec-18	0.238 L	31-Dec-18 19:58	1

Sample ID: FT-PZ461I-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-03	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:45	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.7	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFPeA	2706-90-3	31.3	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFBS	375-73-5	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHxA	307-24-4	99.5	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHpA	375-85-9	60.0	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHxS	355-46-4	2.21	1.45	2.64	4.22	J, Q	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
6:2 FTS	27619-97-2	182	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOA	335-67-1	84.1	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFHpS	375-92-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFNA	375-95-1	2020	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOSA	754-91-6	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFOS	1763-23-1	5.47	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDA	335-76-2	8.61	1.45	2.64	4.22	Q	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
8:2 FTS	39108-34-4	7.95	1.45	2.64	4.22		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
MeFOSAA	2355-31-9	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
EtFOSAA	2991-50-6	3.01	1.45	2.64	4.22	J	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFUnA	2058-94-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDS	335-77-3	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFDoA	307-55-1	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFTTrDA	72629-94-8	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
PFTeDA	376-06-7	ND	1.45	2.64	4.22	U	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.5	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C3-PFPeA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C3-PFBS	IS	82.5	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFHxA	IS	88.9	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C4-PFHpA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
18O2-PFHxS	IS	89.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-6:2 FTS	IS	87.2	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFOA	IS	92.3	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C5-PFNA	IS	77.1	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C8-PFOSA	IS	27.9	50 - 150	H	B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C8-PFOS	IS	88.8	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1
13C2-PFDA	IS	73.7	50 - 150		B8L0144	19-Dec-18	0.237 L	31-Dec-18 20:08	1

Sample ID: FT-PZ464S-20181211

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-04	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFPeA	2706-90-3	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFBS	375-73-5	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHxA	307-24-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHpA	375-85-9	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHxS	355-46-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
6:2 FTS	27619-97-2	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOA	335-67-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFHpS	375-92-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFNA	375-95-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOSA	754-91-6	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFOS	1763-23-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDA	335-76-2	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
8:2 FTS	39108-34-4	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
MeFOSAA	2355-31-9	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
EtFOSAA	2991-50-6	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFUnA	2058-94-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDS	335-77-3	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFDoA	307-55-1	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFTrDA	72629-94-8	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
PFTeDA	376-06-7	ND	1.47	2.69	4.31	U	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.5	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C3-PFPeA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C3-PFBS	IS	86.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFHxA	IS	84.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C4-PFHpA	IS	86.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
18O2-PFHxS	IS	93.6	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-6:2 FTS	IS	89.9	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFOA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C5-PFNA	IS	78.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C8-PFOSA	IS	27.8	50 - 150	H	B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C8-PFOS	IS	84.4	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1
13C2-PFDA	IS	66.7	50 - 150		B8L0144	19-Dec-18	0.232 L	31-Dec-18 20:19	1

Sample ID: DUP01-20181211
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1804077-05	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 12:30	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.02	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFPeA	2706-90-3	4.69	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFBS	375-73-5	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHxA	307-24-4	5.52	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHpA	375-85-9	3.55	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHxS	355-46-4	1.99	1.38	2.51	4.02	J	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
6:2 FTS	27619-97-2	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOA	335-67-1	8.65	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFHpS	375-92-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFNA	375-95-1	46.9	1.38	2.51	4.02		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOSA	754-91-6	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFOS	1763-23-1	1.60	1.38	2.51	4.02	J, Q	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDA	335-76-2	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
8:2 FTS	39108-34-4	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
MeFOSAA	2355-31-9	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
EtFOSAA	2991-50-6	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFUnA	2058-94-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDS	335-77-3	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFDoA	307-55-1	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFTTrDA	72629-94-8	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
PFTeDA	376-06-7	ND	1.38	2.51	4.02	U	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C3-PFPeA	IS	91.7	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C3-PFBS	IS	85.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFHxA	IS	86.2	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C4-PFHpA	IS	87.0	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
18O2-PFHxS	IS	93.3	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-6:2 FTS	IS	88.3	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFOA	IS	87.9	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C5-PFNA	IS	83.0	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C8-PFOA	IS	32.3	50 - 150	H	B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C8-PFOS	IS	83.2	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1
13C2-PFDA	IS	73.4	50 - 150		B8L0144	19-Dec-18	0.249 L	31-Dec-18 20:51	1

Sample ID: FT-PZ464S-FRB-20181211
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	1804077-06	Column:	BEH C18
Project:	112608005-WE05	Date Collected:	11-Dec-18 15:10	Date Received:	13-Dec-18 10:11		
SDG:	# WE05						

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFPeA	2706-90-3	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFBS	375-73-5	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHxA	307-24-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHpA	375-85-9	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHxS	355-46-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
6:2 FTS	27619-97-2	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOA	335-67-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFHpS	375-92-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFNA	375-95-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOSA	754-91-6	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFOS	1763-23-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDA	335-76-2	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
8:2 FTS	39108-34-4	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
MeFOSAA	2355-31-9	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
EtFOSAA	2991-50-6	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFUnA	2058-94-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDS	335-77-3	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFDoA	307-55-1	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFTTrDA	72629-94-8	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
PFTeDA	376-06-7	ND	1.35	2.46	3.94	U	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C3-PFPeA	IS	88.5	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C3-PFBS	IS	80.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFHxA	IS	82.9	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C4-PFHpA	IS	86.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
18O2-PFHxS	IS	92.4	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-6:2 FTS	IS	96.3	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFOA	IS	85.8	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C5-PFNA	IS	76.6	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C8-PFOSA	IS	24.9	50 - 150	H	B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C8-PFOS	IS	83.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1
13C2-PFDA	IS	64.2	50 - 150		B8L0144	19-Dec-18	0.254 L	31-Dec-18 21:01	1

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B8L0144-BLK1	Column:	BEH C18				
Project:	112608005-WE05											

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFPeA	2706-90-3	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFBS	375-73-5	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFHxA	307-24-4	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFHpA	375-85-9	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFHxS	355-46-4	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
6:2 FTS	27619-97-2	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFOA	335-67-1	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFHpS	375-92-8	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFNA	375-95-1	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFOSA	754-91-6	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFOS	1763-23-1	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFDA	335-76-2	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
8:2 FTS	39108-34-4	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
MeFOSAA	2355-31-9	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
EtFOSAA	2991-50-6	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFUnA	2058-94-8	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFDS	335-77-3	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFDoA	307-55-1	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFTTrDA	72629-94-8	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
PFTeDA	376-06-7	ND	1.37	2.50	4.00	U	B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.6	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C3-PFPeA	IS	88.3	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C3-PFBS	IS	80.3	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFHxA	IS	82.0	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C4-PFHpA	IS	86.5	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
18O2-PFHxS	IS	93.9	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-6:2 FTS	IS	97.0	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFOA	IS	88.0	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C5-PFNA	IS	77.5	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C8-PFOSA	IS	57.8	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C8-PFOS	IS	89.4	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFDA	IS	65.8	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-8:2 FTS	IS	108	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B8L0144-BLK1	Column:	BEH C18
Project:	112608005-WE05						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
d3-MeFOSAA	IS	62.7	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
d5-EtFOSAA	IS	64.8	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFUnA	IS	68.1	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFDoA	IS	72.0	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1
13C2-PFTeDA	IS	65.4	50 - 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:22	1

DL - Detection Limit

LOD - Limit of Detection
LOQ - Limit of quantitation

Results reported to the DL.

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

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B8L0144-BS1	Column:	BEH C18				
Project:	112608005-WE05											

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	41.2	40.0	103	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFPeA	2706-90-3	41.6	40.0	104	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFBS	375-73-5	44.4	40.0	111	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFHxA	307-24-4	42.7	40.0	107	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFHpA	375-85-9	39.0	40.0	97.5	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFHxS	355-46-4	42.5	40.0	106	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
6:2 FTS	27619-97-2	43.0	40.0	107	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFOA	335-67-1	40.1	40.0	100	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFHpS	375-92-8	46.1	40.0	115	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFNA	375-95-1	44.1	40.0	110	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFOSA	754-91-6	41.3	40.0	103	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFOS	1763-23-1	42.9	40.0	107	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFDA	335-76-2	43.7	40.0	109	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
8:2 FTS	39108-34-4	42.4	40.0	106	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
MeFOSAA	2355-31-9	40.0	40.0	100	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
EtFOSAA	2991-50-6	45.6	40.0	114	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFUnA	2058-94-8	43.0	40.0	107	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFDS	335-77-3	39.9	40.0	99.8	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFDoA	307-55-1	39.9	40.0	99.8	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFTTrDA	72629-94-8	40.5	40.0	101	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
PFTeDA	376-06-7	40.0	40.0	100	70 - 130		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	85.0	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C3-PFPeA	IS	83.6	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C3-PFBS	IS	77.1	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFHxA	IS	81.7	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C4-PFHpA	IS	86.5	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
18O2-PFHxS	IS	85.6	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-6:2 FTS	IS	85.7	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFOA	IS	82.5	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C5-PFNA	IS	73.6	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C8-PFOSA	IS	62.4	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C8-PFOS	IS	80.0	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFDA	IS	64.0	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-8:2 FTS	IS	95.7	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech
Project: 112608005-WE05

Matrix: Aqueous

Laboratory Data

Lab Sample: B8L0144-BS1 Column: BEH C18

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
d3-MeFOSAA	IS	59.9	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
d5-EtFOSAA	IS	61.3	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFUnA	IS	59.7	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFDoA	IS	65.2	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1
13C2-PFTeDA	IS	63.0	50- 150		B8L0144	19-Dec-18	0.250 L	31-Dec-18 18:33	1

Sample ID: FT-PZ458I-20181211

PFAS Isotope Dilution Method

Name: Tetra Tech	Lab Sample: B8L0144-MS1/B8L0144-MSD1	Source Lab Sample: 1804077-01
Project: 112608005-WE05	QC Batch: B8L0144	Date Extracted: 19-Dec-18
Matrix: Aqueous	Samp Size: 0.232/0.235 L	Column: BEH C18

Analyte	CAS Number	Sample (ng/L)	MS (ng/L)	MS Spike Amt	MS % Rec	MS Quals	MSD (ng/L)	MSD Spike Amt	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBA	375-22-4	8.12	52.1	43.1	102		50.5	42.6	99.6	2.38		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFPeA	2706-90-3	17.9	61.4	43.1	101		60.5	42.6	99.9	1.10		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFBS	375-73-5	ND	46.6	43.1	105		45.7	42.6	104	0.957		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFHxA	307-24-4	40.4	82.6	43.1	97.9		81.9	42.6	97.4	0.512		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFHpA	375-85-9	21.5	64.5	43.1	99.8		63.0	42.6	97.6	2.23		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFHxS	355-46-4	10.1	56.0	43.1	107		52.8	42.6	100	6.76		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
6:2 FTS	27619-97-2	56.2	98.0	43.1	96.9		96.1	42.6	93.6	3.46		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFOA	335-67-1	35.9	79.2	43.1	100		77.7	42.6	97.9	2.12		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFHpS	375-92-8	ND	47.2	43.1	108		44.6	42.6	103	4.74		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFNA	375-95-1	482	513	43.1	70.4		525	42.6	101	35.7	H	70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFOSA	754-91-6	ND	49.4	43.1	115		50.0	42.6	117	1.72	Q	70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFOS	1763-23-1	26.0	66.4	43.1	93.8		64.2	42.6	89.7	4.47		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFDA	335-76-2	6.50	52.6	43.1	107		50.1	42.6	102	4.78		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
8:2 FTS	39108-34-4	9.15	50.7	43.1	96.4		49.8	42.6	95.4	1.04		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
MeFOSAA	2355-31-9	ND	51.7	43.1	120		44.9	42.6	105	13.3		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
EtFOSAA	2991-50-6	7.40	57.9	43.1	117		52.2	42.6	105	10.8		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFUnA	2058-94-8	ND	43.2	43.1	100		38.9	42.6	91.3	9.10		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFDS	335-77-3	ND	46.4	43.1	108		45.2	42.6	106	1.87		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFDoA	307-55-1	ND	43.3	43.1	101		41.6	42.6	97.7	3.32		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFTTrDA	72629-94-8	ND	44.7	43.1	104		42.3	42.6	99.2	4.72		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1
PFTeDA	376-06-7	ND	45.7	43.1	106		42.2	42.6	99.0	6.83		70-130	30	31-Dec-18 18:43	1	31-Dec-18 18:54	1

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C3-PFBA	IS	87.3		86.5		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C3-PFPeA	IS	85.6		83.6		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C3-PFBS	IS	77.7		77.7		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFHxA	IS	83.2		80.6		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C4-PFHpA	IS	84.2		84.4		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
18O2-PFHxS	IS	79.8		87.3		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-6:2 FTS	IS	88.0		87.9		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFOA	IS	87.2		89.9		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C5-PFNA	IS	80.5		76.9		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C8-PFOSA	IS	50.6		46.4	H	50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C8-PFOS	IS	80.3		87.4		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFDA	IS	70.3		70.9		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1

Sample ID: FT-PZ458I-20181211 **PFAS Isotope Dilution Method**

Name: Tetra Tech	Lab Sample: B8L0144-MS1/B8L0144-MSD1	Source Lab Sample: 1804077-01
Project: 112608005-WE05	QC Batch: B8L0144	Date Extracted: 19-Dec-18
Matrix: Aqueous	Samp Size: 0.232/0.235 L	Column: BEH C18

Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
13C2-8:2 FTS	IS	101		108		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
d3-MeFOSAA	IS	58.9		62.4		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
d5-EtFOSAA	IS	68.6		64.4		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFUnA	IS	72.1		69.8		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFDoA	IS	74.8		73.6		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1
13C2-PFTeDA	IS	71.8		72.9		50-150	31-Dec-18 18:43	1	31-Dec-18 18:54	1

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-56.qld

MM 1/3/2019

Last Altered: Wednesday, January 02, 2019 17:34:01 Pacific Standard Time

Printed: Wednesday, January 02, 2019 17:34:14 Pacific Standard Time

Name: 181231M1_56, Date: 31-Dec-2018, Time: 19:47:31, ID: 1804077-01 FT-PZ458I-20181211 0.2338, Description: FT-PZ458I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	1.05e3	6.05e3	0.234		1.30	2.17	8.1232			
2	2 PFPeA	263.1 > 218.9	2.60e3	7.59e3	0.234		2.58	4.29	17.9320			
3	3 PFBs	299.0 > 79.7	4.28e1	1.08e3	0.234		2.92	0.495	1.2833		3.24	NO
4	5 PFHxA	313 > 269	1.02e4	5.46e3	0.234		3.49	9.38	40.3784		14.9	NO
5	7 PFHpA	363.0 > 318.9	4.38e3	7.41e3	0.234		4.14	7.40	21.4622		15.9	NO
6	36 13C3-PFBA	216.1 > 171.8	6.05e3	9.56e3	0.234	0.727	1.30	7.91	46.5373	87.0		
7	37 13C3-PFPeA	266. > 221.8	7.59e3	1.74e4	0.234	0.511	2.58	5.46	45.7301	85.5		
8	38 13C3-PFBs	302. > 98.8	1.08e3	2.67e3	0.234	0.497	2.92	5.06	43.4843	81.3		
9	40 13C2-PFHxA	315 > 270	5.46e3	1.74e4	0.234	0.947	3.49	3.93	17.7438	83.0		
10	41 13C4-PFHpA	367.2 > 321.8	7.41e3	1.74e4	0.234	0.484	4.14	5.33	47.1178	88.1		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	4.00e2	1.06e3	0.234		4.27	4.72	10.0686		2.05	NO
13	68 Total PFHxS	398.9 > 79.6	4.00e2	1.06e3	0.234			4.72	10.0686			
14	10 6:2 FTS	427.1 > 407	4.34e3	2.32e3	0.234		4.57	23.4	56.2092		3.24	NO
15	11 L-PFOA	412.8 > 368.9	1.31e4	1.32e4	0.234		4.63	12.4	35.9361		3.29	NO
16	69 Total PFOA	412.8 > 368.9	1.31e4	1.32e4	0.234			12.4	35.9361			
17	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.67e3	0.234	0.414	4.27	4.96	51.3078	96.0		
18	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.67e3	0.234	0.414	4.27	4.96	51.3078	96.0		
19	43 13C2-6:2 FTS	428.9>80.9	2.32e3	3.03e3	0.234	0.920	4.58	9.58	44.5349	83.3		
20	44 13C2-PFOA	414.9 > 369.7	1.32e4	2.25e4	0.234	0.678	4.63	7.29	45.9968	86.0		
21	44 13C2-PFOA	414.9 > 369.7	1.32e4	2.25e4	0.234	0.678	4.63	7.29	45.9968	86.0		
22	-1											
23	13 PFHpS	449 > 80.0	2.64e1	2.63e3	0.234		4.74	0.126	0.8542		2.08	NO
24	14 PFNA	463.0 > 418.8	1.32e5	1.16e4	0.234		5.06	142	482.4186		4.78	NO
25	15 PFOSA	497.9 > 77.9		3.35e3	0.234							
26	16 L-PFOS	498.9 > 79.9	1.40e3	2.63e3	0.234		5.14	6.64	25.9902		2.63	NO
27	70 Total PFOS	498.9 > 79.9	1.40e3	2.63e3	0.234			6.64	25.9902			
28	47 13C8-PFOS	507.0 > 79.9	2.63e3	3.03e3	0.234	1.038	5.14	10.9	44.8079	83.8		
29	45 13C5-PFNA	468.2 > 422.9	1.16e4	1.52e4	0.234	0.949	5.06	9.50	42.8357	80.1		
30	46 13C8-PFOSA	506.1 > 77.7	3.35e3	2.15e4	0.234	0.190	5.10	1.95	43.8768	82.1		
31	47 13C8-PFOS	507.0 > 79.9	2.63e3	3.03e3	0.234	1.038	5.14	10.9	44.8079	83.8		
32	47 13C8-PFOS	507.0 > 79.9	2.63e3	3.03e3	0.234	1.038	5.14	10.9	44.8079	83.8		
33	-1											
34	18 PFDA	513 > 468.8	1.78e3	1.17e4	0.234		5.44	1.90	6.4994		5.86	NO
35	19 8:2 FTS	527 > 506.9	7.90e2	3.06e3	0.234		5.41	3.23	9.1542		2.43	NO
36	21 L-MeFOSAA	570 > 419		2.13e3	0.234							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.13e3	0.234			0.000				

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Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-56.qld

MM 1/3/2019

Last Altered: Wednesday, January 02, 2019 17:34:01 Pacific Standard Time

Printed: Wednesday, January 02, 2019 17:34:14 Pacific Standard Time

Name: 181231M1_56, Date: 31-Dec-2018, Time: 19:47:31, ID: 1804077-01 FT-PZ458I-20181211 0.2338, Description: FT-PZ458I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9	3.33e1	1.48e4	0.234		5.77	0.0281	0.0467		3.95	YES
39	48 13C2-PFDA	515.1 > 469.9	1.17e4	1.73e4	0.234	0.937	5.44	8.43	38.5017	72.0		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.06e3	3.03e3	0.234	1.110	5.41	12.6	48.7099	91.1		
41	50 d3-N-MeFOSAA	573.3 > 419	2.13e3	2.15e4	0.234	0.161	5.59	1.24	32.9831	61.7		
42	50 d3-N-MeFOSAA	573.3 > 419	2.13e3	2.15e4	0.234	0.161	5.59	1.24	32.9831	61.7		
43	51 13C2-PFUdA	565 > 519.8	1.48e4	2.15e4	0.234	1.022	5.77	8.64	36.1580	67.6		
44	-1											
45	23 L-EtFOSAA	584.1 > 419	6.33e2	2.94e3	0.234		5.60	2.69	7.4037		1.11	NO
46	72 Total N-EtFOSAA	584.1 > 419	6.33e2	2.94e3	0.234			2.69	7.4037			
47	26 PFDS	598.8 > 79.9		2.63e3	0.234							
48	27 PFDoA	612.9 > 569.0		1.51e4	0.234							
49	29 PFTrDA	662.9 > 618.9		1.51e4	0.234							
50	52 d5-N-EtFOSAA	589.3 > 419	2.94e3	2.15e4	0.234	0.223	5.75	1.71	32.8063	61.4		
51	52 d5-N-EtFOSAA	589.3 > 419	2.94e3	2.15e4	0.234	0.223	5.75	1.71	32.8063	61.4		
52	51 13C2-PFUdA	565 > 519.8	1.48e4	2.15e4	0.234	1.022	5.77	8.64	36.1580	67.6		
53	53 13C2-PFDoA	615.0 > 569.7	1.51e4	1.73e4	0.234	1.076	6.05	10.9	43.2230	80.8		
54	53 13C2-PFDoA	615.0 > 569.7	1.51e4	1.73e4	0.234	1.076	6.05	10.9	43.2230	80.8		
55	-1											
56	30 PFTeDA	713.0 > 669.0		1.07e4	0.234							
57	73 TCDA	498.3 > 106.9			0.234	2.789						
58	60 13C4-PFBA	217. > 172	9.56e3	9.56e3	0.234	1.000	1.29	12.5	53.4645	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.74e4	1.74e4	0.234	1.000	3.49	12.5	53.4645	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.67e3	2.67e3	0.234	1.000	4.27	12.5	53.4645	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	1.07e4	2.15e4	0.234	0.677	6.52	6.25	39.4488	73.8		
62	47 13C8-PFOS	507.0 > 79.9	2.63e3	3.03e3	0.234	1.038	5.14	10.9	44.8079	83.8		
63	63 13C8-PFOA	420.9 > 376	2.25e4	2.25e4	0.234	1.000	4.62	12.5	53.4645	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.52e4	1.52e4	0.234	1.000	5.06	12.5	53.4645	100.0		
65	65 13C4-PFOS	503 > 79.9	3.03e3	3.03e3	0.234	1.000	5.14	12.5	53.4645	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.73e4	1.73e4	0.234	1.000	5.44	12.5	53.4645	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	2.15e4	2.15e4	0.234	1.000	5.77	12.5	53.4645	100.0		

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-57.qld

MM 1/3/2019

Last Altered: Wednesday, January 02, 2019 17:36:01 Pacific Standard Time

Printed: Wednesday, January 02, 2019 17:36:25 Pacific Standard Time

Name: 181231M1_57, Date: 31-Dec-2018, Time: 19:58:04, ID: 1804077-02 FT-PZ460I-20181211 0.23758, Description: FT-PZ460I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	2.64e2	6.58e3	0.238		1.30	0.501	2.0711			
2	2 PFPeA	263.1 > 218.9	7.23e2	8.38e3	0.238		2.58	1.08	4.5697			
3	3 PFBS	299.0 > 79.7		1.19e3	0.238							
4	5 PFHxA	313 > 269	1.60e3	5.71e3	0.238		3.49	1.40	5.9570		16.3	NO
5	7 PFHpA	363.0 > 318.9	8.10e2	8.06e3	0.238		4.15	1.25	3.6287		14.3	NO
6	36 13C3-PFBA	216.1 > 171.8	6.58e3	1.02e4	0.238	0.727	1.30	8.03	46.4776	88.3		
7	37 13C3-PFPeA	266. > 221.8	8.38e3	1.88e4	0.238	0.511	2.58	5.57	45.9085	87.3		
8	38 13C3-PFBS	302. > 98.8	1.19e3	2.99e3	0.238	0.497	2.91	4.97	42.0227	79.9		
9	40 13C2-PFHxA	315 > 270	5.71e3	1.88e4	0.238	0.947	3.49	3.80	16.8667	80.1		
10	41 13C4-PFHpA	367.2 > 321.8	8.06e3	1.88e4	0.238	0.484	4.15	5.36	46.6456	88.7		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	6.95e1	1.12e3	0.238		4.27	0.778	1.7587		2.52	NO
13	68 Total PFHxS	398.9 > 79.6	6.95e1	1.12e3	0.238			0.778	1.7587			
14	10 6:2 FTS	427.1 > 407	6.87e1	2.88e3	0.238		4.58	0.298	0.8018		2.07	NO
15	11 L-PFOA	412.8 > 368.9	3.72e3	1.38e4	0.238		4.63	3.37	9.5118		3.05	NO
16	69 Total PFOA	412.8 > 368.9	3.72e3	1.38e4	0.238			3.37	9.5118			
17	42 18O2-PFHxS	403.0 > 102.6	1.12e3	2.99e3	0.238	0.414	4.28	4.67	47.4815	90.2		
18	42 18O2-PFHxS	403.0 > 102.6	1.12e3	2.99e3	0.238	0.414	4.28	4.67	47.4815	90.2		
19	43 13C2-6:2 FTS	428.9>80.9	2.88e3	3.10e3	0.238	0.920	4.58	11.6	53.1275	101.0		
20	44 13C2-PFOA	414.9 > 369.7	1.38e4	2.35e4	0.238	0.678	4.63	7.34	45.5425	86.6		
21	44 13C2-PFOA	414.9 > 369.7	1.38e4	2.35e4	0.238	0.678	4.63	7.34	45.5425	86.6		
22	-1											
23	13 PFHpS	449 > 80.0		2.72e3	0.238							
24	14 PFNA	463.0 > 418.8	1.36e4	1.17e4	0.238		5.06	14.5	48.6036		4.90	NO
25	15 PFOSA	497.9 > 77.9		1.67e3	0.238							
26	16 L-PFOS	498.9 > 79.9	1.31e2	2.72e3	0.238		5.14	0.600	2.5202		2.85	NO
27	70 Total PFOS	498.9 > 79.9	1.31e2	2.72e3	0.238			0.600	2.5202			
28	47 13C8-PFOS	507.0 > 79.9	2.72e3	3.10e3	0.238	1.038	5.14	11.0	44.5263	84.6		
29	45 13C5-PFNA	468.2 > 422.9	1.17e4	1.57e4	0.238	0.949	5.06	9.32	41.3258	78.5		
30	46 13C8-PFOSA	506.1 > 77.7	1.67e3	2.19e4	0.238	0.190	5.10	0.950	21.0578	40.0		
31	47 13C8-PFOS	507.0 > 79.9	2.72e3	3.10e3	0.238	1.038	5.14	11.0	44.5263	84.6		
32	47 13C8-PFOS	507.0 > 79.9	2.72e3	3.10e3	0.238	1.038	5.14	11.0	44.5263	84.6		
33	-1											
34	18 PFDA	513 > 468.8	3.81e1	1.26e4	0.238		5.45	0.0378	0.0671		114	YES
35	19 8:2 FTS	527 > 506.9		3.23e3	0.238							
36	21 L-MeFOSAA	570 > 419		2.24e3	0.238							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.24e3	0.238			0.000				

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-57.qld

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Last Altered: Wednesday, January 02, 2019 17:36:01 Pacific Standard Time

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Name: 181231M1_57, Date: 31-Dec-2018, Time: 19:58:04, ID: 1804077-02 FT-PZ460I-20181211 0.23758, Description: FT-PZ460I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9		1.60e4	0.238							
39	48 13C2-PFDA	515.1 > 469.9	1.26e4	1.82e4	0.238	0.937	5.45	8.67	38.9596	74.0		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.23e3	3.10e3	0.238	1.110	5.41	13.0	49.3993	93.9		
41	50 d3-N-MeFOSAA	573.3 > 419	2.24e3	2.19e4	0.238	0.161	5.59	1.27	33.3866	63.5		
42	50 d3-N-MeFOSAA	573.3 > 419	2.24e3	2.19e4	0.238	0.161	5.59	1.27	33.3866	63.5		
43	51 13C2-PFUdA	565 > 519.8	1.60e4	2.19e4	0.238	1.022	5.77	9.10	37.4839	71.2		
44	-1											
45	23 L-EtFOSAA	584.1 > 419		3.27e3	0.238							
46	72 Total N-EtFOSAA	584.1 > 419	0.00e0	3.27e3	0.238			0.000				
47	26 PFDS	598.8 > 79.9		2.72e3	0.238							
48	27 PFDoA	612.9 > 569.0		1.57e4	0.238							
49	29 PFTrDA	662.9 > 618.9		1.57e4	0.238							
50	52 d5-N-EtFOSAA	589.3 > 419	3.27e3	2.19e4	0.238	0.223	5.75	1.87	35.2223	66.9		
51	52 d5-N-EtFOSAA	589.3 > 419	3.27e3	2.19e4	0.238	0.223	5.75	1.87	35.2223	66.9		
52	51 13C2-PFUdA	565 > 519.8	1.60e4	2.19e4	0.238	1.022	5.77	9.10	37.4839	71.2		
53	53 13C2-PFDoA	615.0 > 569.7	1.57e4	1.82e4	0.238	1.076	6.06	10.8	42.1235	80.1		
54	53 13C2-PFDoA	615.0 > 569.7	1.57e4	1.82e4	0.238	1.076	6.06	10.8	42.1235	80.1		
55	-1											
56	30 PFTeDA	713.0 > 669.0	4.51e1	1.05e4	0.238		6.51	0.0536	0.1858		42.2	YES
57	73 TCDA	498.3>106.9			0.238	2.789						
58	60 13C4-PFBA	217. > 172	1.02e4	1.02e4	0.238	1.000	1.29	12.5	52.6139	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.88e4	1.88e4	0.238	1.000	3.49	12.5	52.6139	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.99e3	2.99e3	0.238	1.000	4.28	12.5	52.6139	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	1.05e4	2.19e4	0.238	0.677	6.52	6.00	37.2636	70.8		
62	47 13C8-PFOS	507.0 > 79.9	2.72e3	3.10e3	0.238	1.038	5.14	11.0	44.5263	84.6		
63	63 13C8-PFOA	420.9 > 376	2.35e4	2.35e4	0.238	1.000	4.63	12.5	52.6139	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.57e4	1.57e4	0.238	1.000	5.06	12.5	52.6139	100.0		
65	65 13C4-PFOS	503 > 79.9	3.10e3	3.10e3	0.238	1.000	5.14	12.5	52.6139	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.82e4	1.82e4	0.238	1.000	5.45	12.5	52.6139	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	2.19e4	2.19e4	0.238	1.000	5.77	12.5	52.6139	100.0		

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-58.qld

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Name: 181231M1_58, Date: 31-Dec-2018, Time: 20:08:42, ID: 1804077-03 FT-PZ461I-20181211 0.23672, Description: FT-PZ461I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	2.15e3	6.64e3	0.237		1.30	4.04	14.6758			
2	2 PFPeA	263.1 > 218.9	5.05e3	8.30e3	0.237		2.58	7.62	31.3067			
3	3 PFBS	299.0 > 79.7		1.17e3	0.237							
4	5 PFHxA	313 > 269	2.83e4	6.06e3	0.237		3.49	23.3	99.5252		14.1	NO
5	7 PFHpA	363.0 > 318.9	1.32e4	7.85e3	0.237		4.14	21.0	60.0497		14.0	NO
6	36 13C3-PFBA	216.1 > 171.8	6.64e3	1.01e4	0.237	0.727	1.29	8.22	47.7813	90.5		
7	37 13C3-PFPeA	266. > 221.8	8.30e3	1.80e4	0.237	0.511	2.58	5.77	47.6985	90.3		
8	38 13C3-PFBS	302. > 98.8	1.17e3	2.84e3	0.237	0.497	2.91	5.13	43.5398	82.5		
9	40 13C2-PFHxA	315 > 270	6.06e3	1.80e4	0.237	0.947	3.49	4.21	18.7760	88.9		
10	41 13C4-PFHpA	367.2 > 321.8	7.85e3	1.80e4	0.237	0.484	4.14	5.46	47.6672	90.3		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	8.40e1	1.06e3	0.237		4.27	0.994	2.2120		3.71	YES
13	68 Total PFHxS	398.9 > 79.6	8.40e1	1.06e3	0.237			0.994	2.2120			
14	10 6:2 FTS	427.1 > 407	1.53e4	2.52e3	0.237		4.57	76.1	181.7415		3.06	NO
15	11 L-PFOA	412.8 > 368.9	3.32e4	1.41e4	0.237		4.63	29.4	84.1034		3.32	NO
16	69 Total PFOA	412.8 > 368.9	3.32e4	1.41e4	0.237			29.4	84.1034			
17	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.84e3	0.237	0.414	4.27	4.65	47.4315	89.8		
18	42 18O2-PFHxS	403.0 > 102.6	1.06e3	2.84e3	0.237	0.414	4.27	4.65	47.4315	89.8		
19	43 13C2-6:2 FTS	428.9>80.9	2.52e3	3.14e3	0.237	0.920	4.58	10.0	46.0556	87.2		
20	44 13C2-PFOA	414.9 > 369.7	1.41e4	2.25e4	0.237	0.678	4.63	7.82	48.7410	92.3		
21	44 13C2-PFOA	414.9 > 369.7	1.41e4	2.25e4	0.237	0.678	4.63	7.82	48.7410	92.3		
22	-1											
23	13 PFHpS	449 > 80.0	7.71e0	2.89e3	0.237		4.73	0.0333	0.3862		3.51	YES
24	14 PFNA	463.0 > 418.8	4.39e5	9.12e3	0.237		5.06	602	2023.6605		4.58	NO
25	15 PFOSA	497.9 > 77.9		1.16e3	0.237							
26	16 L-PFOS	498.9 > 79.9	3.17e2	2.89e3	0.237		5.15	1.37	5.4723		3.00	NO
27	70 Total PFOS	498.9 > 79.9	3.17e2	2.89e3	0.237			1.37	5.4723			
28	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
29	45 13C5-PFNA	468.2 > 422.9	9.12e3	1.25e4	0.237	0.949	5.06	9.14	40.7007	77.1		
30	46 13C8-PFOSA	506.1 > 77.7	1.16e3	2.18e4	0.237	0.190	5.10	0.663	14.7477	27.9		
31	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
32	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
33	-1											
34	18 PFDA	513 > 468.8	2.35e3	1.16e4	0.237		5.44	2.54	8.6116		8.98	YES
35	19 8:2 FTS	527 > 506.9	7.45e2	3.28e3	0.237		5.41	2.84	7.9536		2.49	NO
36	21 L-MeFOSAA	570 > 419		2.27e3	0.237							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.27e3	0.237			0.000				

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-58.qld

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Name: 181231M1_58, Date: 31-Dec-2018, Time: 20:08:42, ID: 1804077-03 FT-PZ461I-20181211 0.23672, Description: FT-PZ461I-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9		1.58e4	0.237							
39	48 13C2-PFDA	515.1 > 469.9	1.16e4	1.67e4	0.237	0.937	5.45	8.63	38.9165	73.7		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.28e3	3.14e3	0.237	1.110	5.41	13.1	49.6891	94.1		
41	50 d3-N-MeFOSAA	573.3 > 419	2.27e3	2.18e4	0.237	0.161	5.59	1.30	34.2493	64.9		
42	50 d3-N-MeFOSAA	573.3 > 419	2.27e3	2.18e4	0.237	0.161	5.59	1.30	34.2493	64.9		
43	51 13C2-PFUdA	565 > 519.8	1.58e4	2.18e4	0.237	1.022	5.77	9.03	37.3343	70.7		
44	-1											
45	23 L-EtFOSAA	584.1 > 419	2.85e2	3.47e3	0.237		5.60	1.03	3.0091		1.34	NO
46	72 Total N-EtFOSAA	584.1 > 419	2.85e2	3.47e3	0.237			1.03	3.0091			
47	26 PFDS	598.8 > 79.9		2.89e3	0.237							
48	27 PFDoA	612.9 > 569.0		1.47e4	0.237							
49	29 PFTrDA	662.9 > 618.9		1.47e4	0.237							
50	52 d5-N-EtFOSAA	589.3 > 419	3.47e3	2.18e4	0.237	0.223	5.75	1.99	37.7082	71.4		
51	52 d5-N-EtFOSAA	589.3 > 419	3.47e3	2.18e4	0.237	0.223	5.75	1.99	37.7082	71.4		
52	51 13C2-PFUdA	565 > 519.8	1.58e4	2.18e4	0.237	1.022	5.77	9.03	37.3343	70.7		
53	53 13C2-PFDoA	615.0 > 569.7	1.47e4	1.67e4	0.237	1.076	6.06	11.0	43.1967	81.8		
54	53 13C2-PFDoA	615.0 > 569.7	1.47e4	1.67e4	0.237	1.076	6.06	11.0	43.1967	81.8		
55	-1											
56	30 PFTeDA	713.0 > 669.0	3.32e1	1.09e4	0.237		6.52	0.0380	0.1438		6.63	YES
57	73 TCDA	498.3 > 106.9			0.237	2.789						
58	60 13C4-PFBA	217. > 172	1.01e4	1.01e4	0.237	1.000	1.29	12.5	52.8050	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.80e4	1.80e4	0.237	1.000	3.49	12.5	52.8050	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.84e3	2.84e3	0.237	1.000	4.27	12.5	52.8050	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	1.09e4	2.18e4	0.237	0.677	6.51	6.25	38.9920	73.8		
62	47 13C8-PFOS	507.0 > 79.9	2.89e3	3.14e3	0.237	1.038	5.15	11.5	46.9134	88.8		
63	63 13C8-PFOA	420.9 > 376	2.25e4	2.25e4	0.237	1.000	4.63	12.5	52.8050	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.25e4	1.25e4	0.237	1.000	5.06	12.5	52.8050	100.0		
65	65 13C4-PFOS	503 > 79.9	3.14e3	3.14e3	0.237	1.000	5.15	12.5	52.8050	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.67e4	1.67e4	0.237	1.000	5.44	12.5	52.8050	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	2.18e4	2.18e4	0.237	1.000	5.77	12.5	52.8050	100.0		

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-59.qld

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Name: 181231M1_59, Date: 31-Dec-2018, Time: 20:19:20, ID: 1804077-04 FT-PZ464S-20181211 0.23223, Description: FT-PZ464S-20181211

#	Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8		6.83e3	0.232							
2	2 PFPeA	263.1 > 218.9	2.45e1	8.71e3	0.232		2.58	0.0352	0.3243			
3	3 PFBS	299.0 > 79.7		1.24e3	0.232							
4	5 PFHxA	313 > 269	1.11e2	6.31e3	0.232		3.48	0.0877	0.3954		136	YES
5	7 PFHpA	363.0 > 318.9	7.15e1	8.26e3	0.232		4.14	0.108	0.3726		17.3	NO
6	36 13C3-PFBA	216.1 > 171.8	6.83e3	1.05e4	0.232	0.727	1.30	8.13	48.1519	89.5		
7	37 13C3-PFPeA	266. > 221.8	8.71e3	1.97e4	0.232	0.511	2.58	5.51	46.4533	86.3		
8	38 13C3-PFBS	302. > 98.8	1.24e3	2.88e3	0.232	0.497	2.91	5.37	46.5023	86.4		
9	40 13C2-PFHxA	315 > 270	6.31e3	1.97e4	0.232	0.947	3.49	4.00	18.1625	84.4		
10	41 13C4-PFHpA	367.2 > 321.8	8.26e3	1.97e4	0.232	0.484	4.14	5.23	46.5276	86.4		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	1.32e1	1.12e3	0.232		4.27	0.148	0.4652		0.844	YES
13	68 Total PFHxS	398.9 > 79.6	1.32e1	1.12e3	0.232			0.148	0.4652			
14	10 6:2 FTS	427.1 > 407		2.76e3	0.232							
15	11 L-PFOA	412.8 > 368.9	3.51e2	1.40e4	0.232		4.62	0.314	0.8094		3.83	NO
16	69 Total PFOA	412.8 > 368.9	3.51e2	1.40e4	0.232			0.314	0.8094			
17	42 18O2-PFHxS	403.0 > 102.6	1.12e3	2.88e3	0.232	0.414	4.27	4.84	50.3827	93.6		
18	42 18O2-PFHxS	403.0 > 102.6	1.12e3	2.88e3	0.232	0.414	4.27	4.84	50.3827	93.6		
19	43 13C2-6:2 FTS	428.9>80.9	2.76e3	3.34e3	0.232	0.920	4.57	10.3	48.4117	89.9		
20	44 13C2-PFOA	414.9 > 369.7	1.40e4	2.39e4	0.232	0.678	4.62	7.31	46.4435	86.3		
21	44 13C2-PFOA	414.9 > 369.7	1.40e4	2.39e4	0.232	0.678	4.62	7.31	46.4435	86.3		
22	-1											
23	13 PFHpS	449 > 80.0		2.92e3	0.232							
24	14 PFNA	463.0 > 418.8	2.83e2	1.26e4	0.232		5.06	0.280	1.1718		4.06	NO
25	15 PFOSA	497.9 > 77.9		1.15e3	0.232							
26	16 L-PFOS	498.9 > 79.9		2.92e3	0.232							
27	70 Total PFOS	498.9 > 79.9	0.00e0	2.92e3	0.232			0.000				
28	47 13C8-PFOS	507.0 > 79.9	2.92e3	3.34e3	0.232	1.038	5.14	10.9	45.4313	84.4		
29	45 13C5-PFNA	468.2 > 422.9	1.26e4	1.69e4	0.232	0.949	5.06	9.30	42.2198	78.4		
30	46 13C8-PFOSA	506.1 > 77.7	1.15e3	2.18e4	0.232	0.190	5.10	0.659	14.9515	27.8		
31	47 13C8-PFOS	507.0 > 79.9	2.92e3	3.34e3	0.232	1.038	5.14	10.9	45.4313	84.4		
32	47 13C8-PFOS	507.0 > 79.9	2.92e3	3.34e3	0.232	1.038	5.14	10.9	45.4313	84.4		
33	-1											
34	18 PFDA	513 > 468.8		1.17e4	0.232							
35	19 8:2 FTS	527 > 506.9		3.35e3	0.232							
36	21 L-MeFOSAA	570 > 419		2.56e3	0.232							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.56e3	0.232			0.000				

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-59.qld

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Name: 181231M1_59, Date: 31-Dec-2018, Time: 20:19:20, ID: 1804077-04 FT-PZ464S-20181211 0.23223, Description: FT-PZ464S-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9	2.71e1	1.58e4	0.232		5.77	0.0214	0.0185		68.7	YES
39	48 13C2-PFDA	515.1 > 469.9	1.17e4	1.88e4	0.232	0.937	5.44	7.81	35.8781	66.7		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.35e3	3.34e3	0.232	1.110	5.41	12.5	48.6481	90.4		
41	50 d3-N-MeFOSAA	573.3 > 419	2.56e3	2.18e4	0.232	0.161	5.59	1.47	39.3226	73.1		
42	50 d3-N-MeFOSAA	573.3 > 419	2.56e3	2.18e4	0.232	0.161	5.59	1.47	39.3226	73.1		
43	51 13C2-PFUdA	565 > 519.8	1.58e4	2.18e4	0.232	1.022	5.77	9.08	38.2595	71.1		
44	-1											
45	23 L-EtFOSAA	584.1 > 419		3.61e3	0.232							
46	72 Total N-EtFOSAA	584.1 > 419	0.00e0	3.61e3	0.232			0.000				
47	26 PFDS	598.8 > 79.9		2.92e3	0.232							
48	27 PFDoA	612.9 > 569.0		1.57e4	0.232							
49	29 PFTrDA	662.9 > 618.9		1.57e4	0.232							
50	52 d5-N-EtFOSAA	589.3 > 419	3.61e3	2.18e4	0.232	0.223	5.75	2.07	40.0310	74.4		
51	52 d5-N-EtFOSAA	589.3 > 419	3.61e3	2.18e4	0.232	0.223	5.75	2.07	40.0310	74.4		
52	51 13C2-PFUdA	565 > 519.8	1.58e4	2.18e4	0.232	1.022	5.77	9.08	38.2595	71.1		
53	53 13C2-PFDoA	615.0 > 569.7	1.57e4	1.88e4	0.232	1.076	6.06	10.4	41.7623	77.6		
54	53 13C2-PFDoA	615.0 > 569.7	1.57e4	1.88e4	0.232	1.076	6.06	10.4	41.7623	77.6		
55	-1											
56	30 PFTeDA	713.0 > 669.0		1.14e4	0.232							
57	73 TCDA	498.3>106.9			0.232	2.789						
58	60 13C4-PFBA	217. > 172	1.05e4	1.05e4	0.232	1.000	1.29	12.5	53.8259	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.97e4	1.97e4	0.232	1.000	3.49	12.5	53.8259	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.88e3	2.88e3	0.232	1.000	4.27	12.5	53.8259	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	1.14e4	2.18e4	0.232	0.677	6.52	6.52	41.4533	77.0		
62	47 13C8-PFOS	507.0 > 79.9	2.92e3	3.34e3	0.232	1.038	5.14	10.9	45.4313	84.4		
63	63 13C8-PFOA	420.9 > 376	2.39e4	2.39e4	0.232	1.000	4.62	12.5	53.8259	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.69e4	1.69e4	0.232	1.000	5.06	12.5	53.8259	100.0		
65	65 13C4-PFOS	503 > 79.9	3.34e3	3.34e3	0.232	1.000	5.14	12.5	53.8259	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.88e4	1.88e4	0.232	1.000	5.44	12.5	53.8259	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	2.18e4	2.18e4	0.232	1.000	5.77	12.5	53.8259	100.0		

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-62.qld

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Name: 181231M1_62, Date: 31-Dec-2018, Time: 20:51:04, ID: 1804077-05 DUP01-20181211 0.24868, Description: DUP01-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	2.59e2	6.30e3	0.249		1.30	0.514	2.0232			
2	2 PFPeA	263.1 > 218.9	7.37e2	7.92e3	0.249		2.58	1.16	4.6903			
3	3 PFBS	299.0 > 79.7		1.16e3	0.249							
4	5 PFHxA	313 > 269	1.50e3	5.52e3	0.249		3.48	1.36	5.5169		13.0	NO
5	7 PFHpA	363.0 > 318.9	7.32e2	7.12e3	0.249		4.14	1.29	3.5501		18.8	NO
6	36 13C3-PFBA	216.1 > 171.8	6.30e3	9.54e3	0.249	0.727	1.30	8.26	45.6713	90.9		
7	37 13C3-PFPeA	266. > 221.8	7.92e3	1.69e4	0.249	0.511	2.58	5.86	46.0995	91.7		
8	38 13C3-PFBS	302. > 98.8	1.16e3	2.71e3	0.249	0.497	2.91	5.34	43.1571	85.9		
9	40 13C2-PFHxA	315 > 270	5.52e3	1.69e4	0.249	0.947	3.49	4.09	17.3397	86.2		
10	41 13C4-PFHpA	367.2 > 321.8	7.12e3	1.69e4	0.249	0.484	4.14	5.26	43.7232	87.0		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	7.80e1	1.05e3	0.249		4.27	0.933	1.9852		1.73	NO
13	68 Total PFHxS	398.9 > 79.6	7.80e1	1.05e3	0.249			0.933	1.9852			
14	10 6:2 FTS	427.1 > 407	5.55e1	2.50e3	0.249		4.57	0.277	0.7192		1.66	NO
15	11 L-PFOA	412.8 > 368.9	3.21e3	1.25e4	0.249		4.63	3.21	8.6507		3.10	NO
16	69 Total PFOA	412.8 > 368.9	3.21e3	1.25e4	0.249			3.21	8.6507			
17	42 18O2-PFHxS	403.0 > 102.6	1.05e3	2.71e3	0.249	0.414	4.27	4.82	46.8750	93.3		
18	42 18O2-PFHxS	403.0 > 102.6	1.05e3	2.71e3	0.249	0.414	4.27	4.82	46.8750	93.3		
19	43 13C2-6:2 FTS	428.9>80.9	2.50e3	3.08e3	0.249	0.920	4.58	10.2	44.3983	88.3		
20	44 13C2-PFOA	414.9 > 369.7	1.25e4	2.09e4	0.249	0.678	4.63	7.45	44.1850	87.9		
21	44 13C2-PFOA	414.9 > 369.7	1.25e4	2.09e4	0.249	0.678	4.63	7.45	44.1850	87.9		
22	-1											
23	13 PFHpS	449 > 80.0		2.66e3	0.249							
24	14 PFNA	463.0 > 418.8	1.27e4	1.08e4	0.249		5.06	14.7	46.9286		4.57	NO
25	15 PFOSA	497.9 > 77.9		1.18e3	0.249							
26	16 L-PFOS	498.9 > 79.9	8.06e1	2.66e3	0.249		5.15	0.380	1.6037		4.22	YES
27	70 Total PFOS	498.9 > 79.9	8.06e1	2.66e3	0.249			0.380	1.6037			
28	47 13C8-PFOS	507.0 > 79.9	2.66e3	3.08e3	0.249	1.038	5.15	10.8	41.8163	83.2		
29	45 13C5-PFNA	468.2 > 422.9	1.08e4	1.37e4	0.249	0.949	5.06	9.85	41.7379	83.0		
30	46 13C8-PFOSA	506.1 > 77.7	1.18e3	1.92e4	0.249	0.190	5.10	0.767	16.2448	32.3		
31	47 13C8-PFOS	507.0 > 79.9	2.66e3	3.08e3	0.249	1.038	5.15	10.8	41.8163	83.2		
32	47 13C8-PFOS	507.0 > 79.9	2.66e3	3.08e3	0.249	1.038	5.15	10.8	41.8163	83.2		
33	-1											
34	18 PFDA	513 > 468.8	6.05e0	1.07e4	0.249		5.45	0.00705			3.65	NO
35	19 8:2 FTS	527 > 506.9		3.13e3	0.249							
36	21 L-MeFOSAA	570 > 419		2.09e3	0.249							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.09e3	0.249			0.000				

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MM 1/3/2019

Last Altered: Wednesday, January 02, 2019 17:46:37 Pacific Standard Time

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Name: 181231M1_62, Date: 31-Dec-2018, Time: 20:51:04, ID: 1804077-05 DUP01-20181211 0.24868, Description: DUP01-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9	4.25e1	1.33e4	0.249		5.77	0.0398	0.0910		38.8	YES
39	48 13C2-PFDA	515.1 > 469.9	1.07e4	1.56e4	0.249	0.937	5.44	8.60	36.9019	73.4		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.13e3	3.08e3	0.249	1.110	5.41	12.7	46.1235	91.8		
41	50 d3-N-MeFOSAA	573.3 > 419	2.09e3	1.92e4	0.249	0.161	5.59	1.37	34.1723	68.0		
42	50 d3-N-MeFOSAA	573.3 > 419	2.09e3	1.92e4	0.249	0.161	5.59	1.37	34.1723	68.0		
43	51 13C2-PFUdA	565 > 519.8	1.33e4	1.92e4	0.249	1.022	5.77	8.70	34.2438	68.1		
44	-1											
45	23 L-EtFOSAA	584.1 > 419		2.85e3	0.249							
46	72 Total N-EtFOSAA	584.1 > 419	0.00e0	2.85e3	0.249			0.000				
47	26 PFDS	598.8 > 79.9		2.66e3	0.249							
48	27 PFDoA	612.9 > 569.0		1.34e4	0.249							
49	29 PFTrDA	662.9 > 618.9		1.34e4	0.249							
50	52 d5-N-EtFOSAA	589.3 > 419	2.85e3	1.92e4	0.249	0.223	5.75	1.86	33.4919	66.6		
51	52 d5-N-EtFOSAA	589.3 > 419	2.85e3	1.92e4	0.249	0.223	5.75	1.86	33.4919	66.6		
52	51 13C2-PFUdA	565 > 519.8	1.33e4	1.92e4	0.249	1.022	5.77	8.70	34.2438	68.1		
53	53 13C2-PFDoA	615.0 > 569.7	1.34e4	1.56e4	0.249	1.076	6.06	10.7	40.0093	79.6		
54	53 13C2-PFDoA	615.0 > 569.7	1.34e4	1.56e4	0.249	1.076	6.06	10.7	40.0093	79.6		
55	-1											
56	30 PFTeDA	713.0 > 669.0		9.94e3	0.249							
57	73 TCDA	498.3 > 106.9			0.249	2.789						
58	60 13C4-PFBA	217. > 172	9.54e3	9.54e3	0.249	1.000	1.29	12.5	50.2654	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.69e4	1.69e4	0.249	1.000	3.49	12.5	50.2654	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.71e3	2.71e3	0.249	1.000	4.27	12.5	50.2654	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	9.94e3	1.92e4	0.249	0.677	6.51	6.49	38.5170	76.6		
62	47 13C8-PFOS	507.0 > 79.9	2.66e3	3.08e3	0.249	1.038	5.15	10.8	41.8163	83.2		
63	63 13C8-PFOA	420.9 > 376	2.09e4	2.09e4	0.249	1.000	4.63	12.5	50.2654	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.37e4	1.37e4	0.249	1.000	5.06	12.5	50.2654	100.0		
65	65 13C4-PFOS	503 > 79.9	3.08e3	3.08e3	0.249	1.000	5.15	12.5	50.2654	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.56e4	1.56e4	0.249	1.000	5.44	12.5	50.2654	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	1.92e4	1.92e4	0.249	1.000	5.77	12.5	50.2654	100.0		

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-63.qld

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Name: 181231M1_63, Date: 31-Dec-2018, Time: 21:01:42, ID: 1804077-06 FT-PZ464S-FRB-20181211 0.25357, Description: FT-PZ464S-FRB-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8		6.56e3	0.254							
2	2 PFPeA	263.1 > 218.9		8.27e3	0.254							
3	3 PFBS	299.0 > 79.7		1.13e3	0.254							
4	5 PFHxA	313 > 269		5.75e3	0.254							
5	7 PFHpA	363.0 > 318.9		7.64e3	0.254							
6	36 13C3-PFBA	216.1 > 171.8	6.56e3	9.99e3	0.254	0.727	1.30	8.21	44.5253	90.3		
7	37 13C3-PFPeA	266. > 221.8	8.27e3	1.83e4	0.254	0.511	2.59	5.65	43.6249	88.5		
8	38 13C3-PFBS	302. > 98.8	1.13e3	2.84e3	0.254	0.497	2.92	4.99	39.5870	80.3		
9	40 13C2-PFHxA	315 > 270	5.75e3	1.83e4	0.254	0.947	3.49	3.93	16.3547	82.9		
10	41 13C4-PFHpA	367.2 > 321.8	7.64e3	1.83e4	0.254	0.484	4.15	5.22	42.5659	86.3		
11	-1											
12	8 L-PFHxS	398.9 > 79.6	5.82e0	1.08e3	0.254		4.27	0.0670	0.2685		1.50	NO
13	68 Total PFHxS	398.9 > 79.6	5.82e0	1.08e3	0.254			0.0670	0.2685			
14	10 6:2 FTS	427.1 > 407	2.41e-1	2.84e3	0.254		4.57	0.00106	0.0973		0.444	YES
15	11 L-PFOA	412.8 > 368.9	7.87e1	1.29e4	0.254		4.63	0.0763	0.1070		6.72	YES
16	69 Total PFOA	412.8 > 368.9	7.87e1	1.29e4	0.254			0.0763	0.1070			
17	42 18O2-PFHxS	403.0 > 102.6	1.08e3	2.84e3	0.254	0.414	4.27	4.78	45.5613	92.4		
18	42 18O2-PFHxS	403.0 > 102.6	1.08e3	2.84e3	0.254	0.414	4.27	4.78	45.5613	92.4		
19	43 13C2-6:2 FTS	428.9>80.9	2.84e3	3.21e3	0.254	0.920	4.58	11.1	47.4923	96.3		
20	44 13C2-PFOA	414.9 > 369.7	1.29e4	2.22e4	0.254	0.678	4.63	7.27	42.3095	85.8		
21	44 13C2-PFOA	414.9 > 369.7	1.29e4	2.22e4	0.254	0.678	4.63	7.27	42.3095	85.8		
22	-1											
23	13 PFHpS	449 > 80.0		2.77e3	0.254							
24	14 PFNA	463.0 > 418.8	2.41e1	1.13e4	0.254		5.06	0.0265	0.2821		39.8	YES
25	15 PFOSA	497.9 > 77.9		9.81e2	0.254							
26	16 L-PFOS	498.9 > 79.9		2.77e3	0.254							
27	70 Total PFOS	498.9 > 79.9	0.00e0	2.77e3	0.254			0.000				
28	47 13C8-PFOS	507.0 > 79.9	2.77e3	3.21e3	0.254	1.038	5.14	10.8	40.9961	83.2		
29	45 13C5-PFNA	468.2 > 422.9	1.13e4	1.56e4	0.254	0.949	5.06	9.08	37.7493	76.6		
30	46 13C8-PFOSA	506.1 > 77.7	9.81e2	2.08e4	0.254	0.190	5.10	0.591	12.2697	24.9		
31	47 13C8-PFOS	507.0 > 79.9	2.77e3	3.21e3	0.254	1.038	5.14	10.8	40.9961	83.2		
32	47 13C8-PFOS	507.0 > 79.9	2.77e3	3.21e3	0.254	1.038	5.14	10.8	40.9961	83.2		
33	-1											
34	18 PFDA	513 > 468.8	2.93e1	1.01e4	0.254		5.43	0.0362	0.0578		25.4	YES
35	19 8:2 FTS	527 > 506.9		3.23e3	0.254							
36	21 L-MeFOSAA	570 > 419		2.16e3	0.254							
37	71 Total MeFOSAA	570. > 419	0.00e0	2.16e3	0.254			0.000				

Dataset: Z:\Projects\PFAS.PRO\Results\181231M1\181231M1-63.qld

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Name: 181231M1_63, Date: 31-Dec-2018, Time: 21:01:42, ID: 1804077-06 FT-PZ464S-FRB-20181211 0.25357, Description: FT-PZ464S-FRB-20181211

	# Name	Trace	Area	IS Area	Wt/Vol	RRF Mean	RT	Response	Conc.	%Rec	Ion Ratio	Ratio Out?
38	25 PFUdA	563.0 > 518.9	5.07e1	1.32e4	0.254		5.77	0.0478	0.1206		176	YES
39	48 13C2-PFDA	515.1 > 469.9	1.01e4	1.68e4	0.254	0.937	5.44	7.52	31.6652	64.2		
40	49 13C2-8:2 FTS	529.1 > 508.7	3.23e3	3.21e3	0.254	1.110	5.41	12.6	44.7345	90.7		
41	50 d3-N-MeFOSAA	573.3 > 419	2.16e3	2.08e4	0.254	0.161	5.59	1.30	31.9640	64.8		
42	50 d3-N-MeFOSAA	573.3 > 419	2.16e3	2.08e4	0.254	0.161	5.59	1.30	31.9640	64.8		
43	51 13C2-PFUdA	565 > 519.8	1.32e4	2.08e4	0.254	1.022	5.77	7.98	30.7891	62.5		
44	-1											
45	23 L-EtFOSAA	584.1 > 419		2.93e3	0.254							
46	72 Total N-EtFOSAA	584.1 > 419	0.00e0	2.93e3	0.254			0.000				
47	26 PFDS	598.8 > 79.9		2.77e3	0.254							
48	27 PFDoA	612.9 > 569.0		1.29e4	0.254							
49	29 PFTrDA	662.9 > 618.9		1.29e4	0.254							
50	52 d5-N-EtFOSAA	589.3 > 419	2.93e3	2.08e4	0.254	0.223	5.75	1.76	31.1607	63.2		
51	52 d5-N-EtFOSAA	589.3 > 419	2.93e3	2.08e4	0.254	0.223	5.75	1.76	31.1607	63.2		
52	51 13C2-PFUdA	565 > 519.8	1.32e4	2.08e4	0.254	1.022	5.77	7.98	30.7891	62.5		
53	53 13C2-PFDoA	615.0 > 569.7	1.29e4	1.68e4	0.254	1.076	6.05	9.57	35.0839	71.2		
54	53 13C2-PFDoA	615.0 > 569.7	1.29e4	1.68e4	0.254	1.076	6.05	9.57	35.0839	71.2		
55	-1											
56	30 PFTeDA	713.0 > 669.0		9.61e3	0.254							
57	73 TCDA	498.3 > 106.9			0.254	2.789						
58	60 13C4-PFBA	217. > 172	9.99e3	9.99e3	0.254	1.000	1.30	12.5	49.2961	100.0		
59	61 13C5-PFHxA	318 > 272.9	1.83e4	1.83e4	0.254	1.000	3.49	12.5	49.2961	100.0		
60	62 13C3-PFHxS	401.8 > 79.9	2.84e3	2.84e3	0.254	1.000	4.27	12.5	49.2961	100.0		
61	55 13C2-PFTeDA	715.1 > 669.7	9.61e3	2.08e4	0.254	0.677	6.51	5.79	33.6916	68.3		
62	47 13C8-PFOS	507.0 > 79.9	2.77e3	3.21e3	0.254	1.038	5.14	10.8	40.9961	83.2		
63	63 13C8-PFOA	420.9 > 376	2.22e4	2.22e4	0.254	1.000	4.63	12.5	49.2961	100.0		
64	64 13C9-PFNA	472.2 > 426.9	1.56e4	1.56e4	0.254	1.000	5.06	12.5	49.2961	100.0		
65	65 13C4-PFOS	503 > 79.9	3.21e3	3.21e3	0.254	1.000	5.14	12.5	49.2961	100.0		
66	-1											
67	66 13C6-PFDA	519.1 > 473.7	1.68e4	1.68e4	0.254	1.000	5.44	12.5	49.2961	100.0		
68	67 13C7-PFUdA	570.1 > 524.8	2.08e4	2.08e4	0.254	1.000	5.77	12.5	49.2961	100.0		

Dataset: F:\Projects\PFAS.PRO\Results\181231M1\181231M1-IIS AREAS.qld

Last Altered: Wednesday, January 02, 2019 08:35:23 Pacific Standard Time

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Name: 181231M1_54, Date: 31-Dec-2018, Time: 19:26:20, ID: 1804061-03 BP-TT-AOC22-MW04-FRB-20181210 0.11701, Description: BP-TT-AOC22-MW04-FRB-20181210

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804061-03 BP-TT-AOC22-MW04-FRB...	1.28e4	158.8	YES
2	2 13C5-PFHxA	1804061-03 BP-TT-AOC22-MW04-FRB...	2.37e4	155.6	YES
3	3 13C3-PFHxS	1804061-03 BP-TT-AOC22-MW04-FRB...	3.63e3	175.0	YES
4	4 13C8-PFOA	1804061-03 BP-TT-AOC22-MW04-FRB...	3.00e4	157.3	YES
5	5 13C9-PFNA	1804061-03 BP-TT-AOC22-MW04-FRB...	2.08e4	163.6	YES
6	6 13C4-PFOS	1804061-03 BP-TT-AOC22-MW04-FRB...	3.97e3	164.7	YES
7	7 13C6-PFDA	1804061-03 BP-TT-AOC22-MW04-FRB...	2.37e4	156.5	YES
8	8 13C7-PFUDa	1804061-03 BP-TT-AOC22-MW04-FRB...	2.72e4	157.7	YES

Name: 181231M1_55, Date: 31-Dec-2018, Time: 19:36:53, ID: 1804061-04 BP-MH-SW4001-FRB-20181211 0.11792, Description: BP-MH-SW4001-FRB-20181211

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804061-04 BP-MH-SW4001-FRB-201...	1.11e4	138.1	NO
2	2 13C5-PFHxA	1804061-04 BP-MH-SW4001-FRB-201...	2.05e4	134.5	NO
3	3 13C3-PFHxS	1804061-04 BP-MH-SW4001-FRB-201...	3.06e3	147.2	NO
4	4 13C8-PFOA	1804061-04 BP-MH-SW4001-FRB-201...	2.43e4	127.6	NO
5	5 13C9-PFNA	1804061-04 BP-MH-SW4001-FRB-201...	1.76e4	137.9	NO
6	6 13C4-PFOS	1804061-04 BP-MH-SW4001-FRB-201...	3.42e3	141.8	NO
7	7 13C6-PFDA	1804061-04 BP-MH-SW4001-FRB-201...	1.94e4	128.0	NO
8	8 13C7-PFUDa	1804061-04 BP-MH-SW4001-FRB-201...	2.39e4	138.6	NO

Name: 181231M1_56, Date: 31-Dec-2018, Time: 19:47:31, ID: 1804077-01 FT-PZ458I-20181211 0.2338, Description: FT-PZ458I-20181211

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-01 FT-PZ458I-20181211 0.2338	9.56e3	118.4	NO
2	2 13C5-PFHxA	1804077-01 FT-PZ458I-20181211 0.2338	1.74e4	113.8	NO
3	3 13C3-PFHxS	1804077-01 FT-PZ458I-20181211 0.2338	2.67e3	128.7	NO
4	4 13C8-PFOA	1804077-01 FT-PZ458I-20181211 0.2338	2.25e4	118.2	NO
5	5 13C9-PFNA	1804077-01 FT-PZ458I-20181211 0.2338	1.52e4	119.4	NO
6	6 13C4-PFOS	1804077-01 FT-PZ458I-20181211 0.2338	3.03e3	125.3	NO
7	7 13C6-PFDA	1804077-01 FT-PZ458I-20181211 0.2338	1.73e4	114.3	NO
8	8 13C7-PFUDa	1804077-01 FT-PZ458I-20181211 0.2338	2.15e4	124.5	NO

Name: 181231M1_57, Date: 31-Dec-2018, Time: 19:58:04, ID: 1804077-02 FT-PZ460I-20181211 0.23758, Description: FT-PZ460I-20181211

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-02 FT-PZ460I-20181211 0.237...	1.02e4	126.9	NO
2	2 13C5-PFHxA	1804077-02 FT-PZ460I-20181211 0.237...	1.88e4	123.1	NO
3	3 13C3-PFHxS	1804077-02 FT-PZ460I-20181211 0.237...	2.99e3	143.8	NO
4	4 13C8-PFOA	1804077-02 FT-PZ460I-20181211 0.237...	2.35e4	123.0	NO
5	5 13C9-PFNA	1804077-02 FT-PZ460I-20181211 0.237...	1.57e4	123.2	NO
6	6 13C4-PFOS	1804077-02 FT-PZ460I-20181211 0.237...	3.10e3	128.4	NO
7	7 13C6-PFDA	1804077-02 FT-PZ460I-20181211 0.237...	1.82e4	120.1	NO
8	8 13C7-PFUDa	1804077-02 FT-PZ460I-20181211 0.237...	2.19e4	127.0	NO

Dataset: F:\Projects\PFAS.PRO\Results\181231M1\181231M1-IIS AREAS.qld

Last Altered: Wednesday, January 02, 2019 08:35:23 Pacific Standard Time

Printed: Wednesday, January 02, 2019 08:37:58 Pacific Standard Time

Name: 181231M1_58, Date: 31-Dec-2018, Time: 20:08:42, ID: 1804077-03 FT-PZ461I-20181211 0.23672, Description: FT-PZ461I-20181211

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-03 FT-PZ461I-20181211 0.236...	1.01e4	125.1	NO
2	2 13C5-PFHxA	1804077-03 FT-PZ461I-20181211 0.236...	1.80e4	117.8	NO
3	3 13C3-PFHxS	1804077-03 FT-PZ461I-20181211 0.236...	2.84e3	136.9	NO
4	4 13C8-PFOA	1804077-03 FT-PZ461I-20181211 0.236...	2.25e4	118.2	NO
5	5 13C9-PFNA	1804077-03 FT-PZ461I-20181211 0.236...	1.25e4	97.9	NO
6	6 13C4-PFOS	1804077-03 FT-PZ461I-20181211 0.236...	3.14e3	130.1	NO
7	7 13C6-PFDA	1804077-03 FT-PZ461I-20181211 0.236...	1.67e4	110.4	NO
8	8 13C7-PFUDa	1804077-03 FT-PZ461I-20181211 0.236...	2.18e4	126.4	NO

Name: 181231M1_59, Date: 31-Dec-2018, Time: 20:19:20, ID: 1804077-04 FT-PZ464S-20181211 0.23223, Description: FT-PZ464S-20181211

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-04 FT-PZ464S-20181211 0.23...	1.05e4	130.1	NO
2	2 13C5-PFHxA	1804077-04 FT-PZ464S-20181211 0.23...	1.97e4	129.4	NO
3	3 13C3-PFHxS	1804077-04 FT-PZ464S-20181211 0.23...	2.88e3	138.8	NO
4	4 13C8-PFOA	1804077-04 FT-PZ464S-20181211 0.23...	2.39e4	125.1	NO
5	5 13C9-PFNA	1804077-04 FT-PZ464S-20181211 0.23...	1.69e4	132.9	NO
6	6 13C4-PFOS	1804077-04 FT-PZ464S-20181211 0.23...	3.34e3	138.3	NO
7	7 13C6-PFDA	1804077-04 FT-PZ464S-20181211 0.23...	1.88e4	123.8	NO
8	8 13C7-PFUDa	1804077-04 FT-PZ464S-20181211 0.23...	2.18e4	126.2	NO

Name: 181231M1_60, Date: 31-Dec-2018, Time: 20:29:53, ID: IPA, Description: IPA

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	IPA			NO
2	2 13C5-PFHxA	IPA			NO
3	3 13C3-PFHxS	IPA			NO
4	4 13C8-PFOA	IPA			NO
5	5 13C9-PFNA	IPA			NO
6	6 13C4-PFOS	IPA			NO
7	7 13C6-PFDA	IPA			NO
8	8 13C7-PFUDa	IPA			NO

Name: 181231M1_61, Date: 31-Dec-2018, Time: 20:40:31, ID: ST181231M1-5 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	ST181231M1-5 PFC CS3 18L2606	9.96e3	123.5	NO
2	2 13C5-PFHxA	ST181231M1-5 PFC CS3 18L2606	1.82e4	119.3	NO
3	3 13C3-PFHxS	ST181231M1-5 PFC CS3 18L2606	2.66e3	128.1	NO
4	4 13C8-PFOA	ST181231M1-5 PFC CS3 18L2606	2.16e4	113.3	NO
5	5 13C9-PFNA	ST181231M1-5 PFC CS3 18L2606	1.59e4	125.2	NO
6	6 13C4-PFOS	ST181231M1-5 PFC CS3 18L2606	2.80e3	115.9	NO
7	7 13C6-PFDA	ST181231M1-5 PFC CS3 18L2606	1.73e4	114.1	NO
8	8 13C7-PFUDa	ST181231M1-5 PFC CS3 18L2606	1.97e4	114.4	NO

Dataset: F:\Projects\PFAS.PRO\Results\181231M1\181231M1-IIS AREAS.qld

Last Altered: Wednesday, January 02, 2019 08:35:23 Pacific Standard Time
Printed: Wednesday, January 02, 2019 08:37:58 Pacific Standard Time

Name: 181231M1_62, Date: 31-Dec-2018, Time: 20:51:04, ID: 1804077-05 DUP01-20181211 0.24868, Description: DUP01-20181211

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-05 DUP01-20181211 0.24868	9.54e3	118.2	NO
2	2 13C5-PFHxA	1804077-05 DUP01-20181211 0.24868	1.69e4	110.8	NO
3	3 13C3-PFHxS	1804077-05 DUP01-20181211 0.24868	2.71e3	130.5	NO
4	4 13C8-PFOA	1804077-05 DUP01-20181211 0.24868	2.09e4	109.7	NO
5	5 13C9-PFNA	1804077-05 DUP01-20181211 0.24868	1.37e4	107.8	NO
6	6 13C4-PFOS	1804077-05 DUP01-20181211 0.24868	3.08e3	127.5	NO
7	7 13C6-PFDA	1804077-05 DUP01-20181211 0.24868	1.56e4	103.0	NO
8	8 13C7-PFUDa	1804077-05 DUP01-20181211 0.24868	1.92e4	111.0	NO

Name: 181231M1_63, Date: 31-Dec-2018, Time: 21:01:42, ID: 1804077-06 FT-PZ464S-FRB-20181211 0.25357, Description: FT-PZ464S-FRB-20181211

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	1804077-06 FT-PZ464S-FRB-20181211...	9.99e3	123.8	NO
2	2 13C5-PFHxA	1804077-06 FT-PZ464S-FRB-20181211...	1.83e4	119.8	NO
3	3 13C3-PFHxS	1804077-06 FT-PZ464S-FRB-20181211...	2.84e3	136.5	NO
4	4 13C8-PFOA	1804077-06 FT-PZ464S-FRB-20181211...	2.22e4	116.1	NO
5	5 13C9-PFNA	1804077-06 FT-PZ464S-FRB-20181211...	1.56e4	122.4	NO
6	6 13C4-PFOS	1804077-06 FT-PZ464S-FRB-20181211...	3.21e3	132.9	NO
7	7 13C6-PFDA	1804077-06 FT-PZ464S-FRB-20181211...	1.68e4	111.2	NO
8	8 13C7-PFUDa	1804077-06 FT-PZ464S-FRB-20181211...	2.08e4	120.3	NO

Name: 181231M1_64, Date: 31-Dec-2018, Time: 21:12:14, ID: B8L0194-BLK1 Method Blank 0.125, Description: Method Blank

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8L0194-BLK1 Method Blank 0.125	7.25e3	89.8	NO
2	2 13C5-PFHxA	B8L0194-BLK1 Method Blank 0.125	1.34e4	87.8	NO
3	3 13C3-PFHxS	B8L0194-BLK1 Method Blank 0.125	2.05e3	98.7	NO
4	4 13C8-PFOA	B8L0194-BLK1 Method Blank 0.125	1.64e4	86.1	NO
5	5 13C9-PFNA	B8L0194-BLK1 Method Blank 0.125	1.14e4	89.3	NO
6	6 13C4-PFOS	B8L0194-BLK1 Method Blank 0.125	2.29e3	94.9	NO
7	7 13C6-PFDA	B8L0194-BLK1 Method Blank 0.125	1.29e4	85.4	NO
8	8 13C7-PFUDa	B8L0194-BLK1 Method Blank 0.125	1.52e4	87.9	NO

Name: 181231M1_65, Date: 31-Dec-2018, Time: 21:22:53, ID: B8L0194-BS1 OPR 0.125, Description: OPR

	# Name	ID	Area	%Rec	Area Out
1	1 13C4-PFBA	B8L0194-BS1 OPR 0.125	8.14e3	100.8	NO
2	2 13C5-PFHxA	B8L0194-BS1 OPR 0.125	1.42e4	93.1	NO
3	3 13C3-PFHxS	B8L0194-BS1 OPR 0.125	2.38e3	114.8	NO
4	4 13C8-PFOA	B8L0194-BS1 OPR 0.125	1.40e4	73.3	NO
5	5 13C9-PFNA	B8L0194-BS1 OPR 0.125	1.01e4	79.1	NO
6	6 13C4-PFOS	B8L0194-BS1 OPR 0.125	2.61e3	108.2	NO
7	7 13C6-PFDA	B8L0194-BS1 OPR 0.125	1.15e4	76.0	NO
8	8 13C7-PFUDa	B8L0194-BS1 OPR 0.125	1.53e4	88.6	NO

TUNE CHECKS

TUNE CHECK Q4 (M) 12-29-18

Calibration Report - MS1 Static

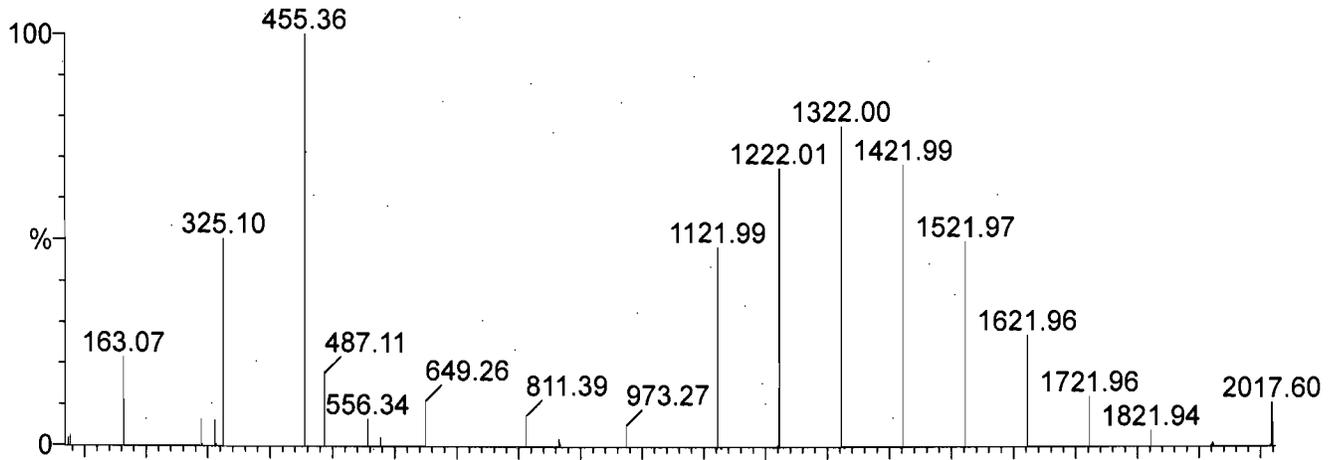
20181229

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Printed: Sat Dec 29 11:12:53 2018

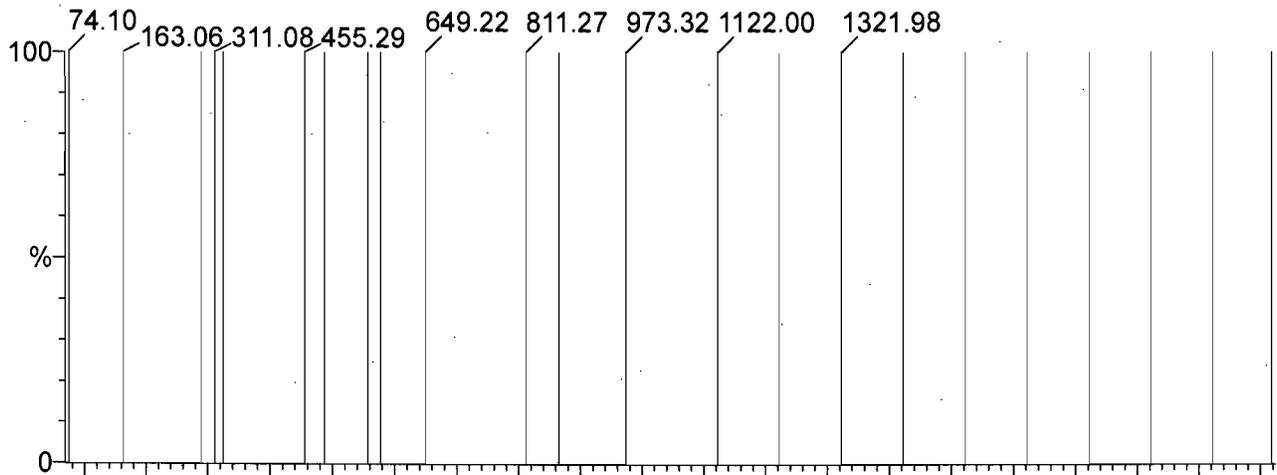
Data file: STATMS1 - Calibrated

22 matches of 23 tested references



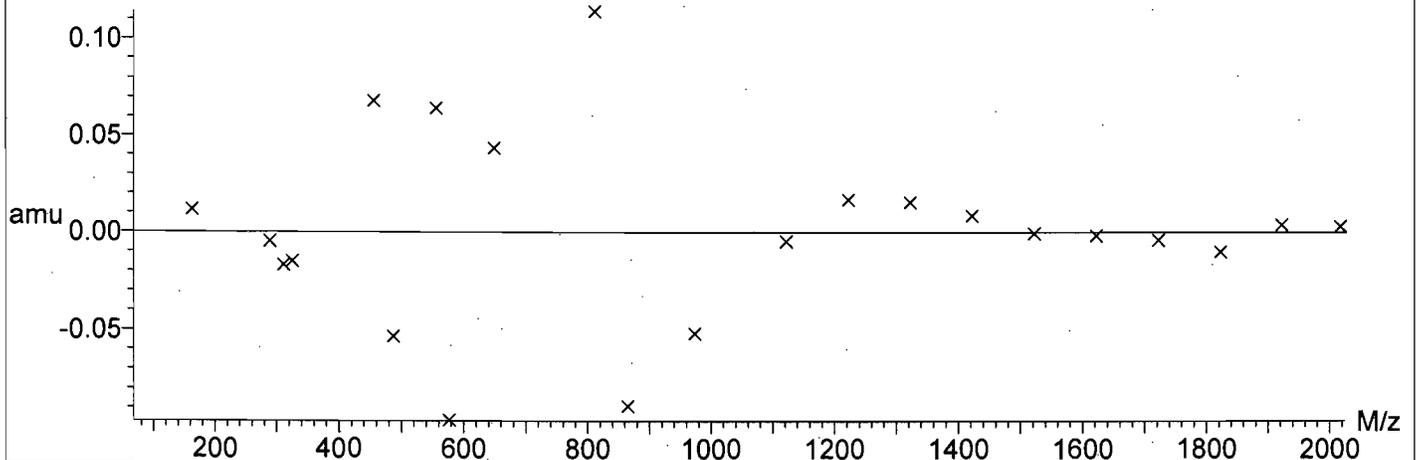
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref

Mean residual = 0.0317 amu

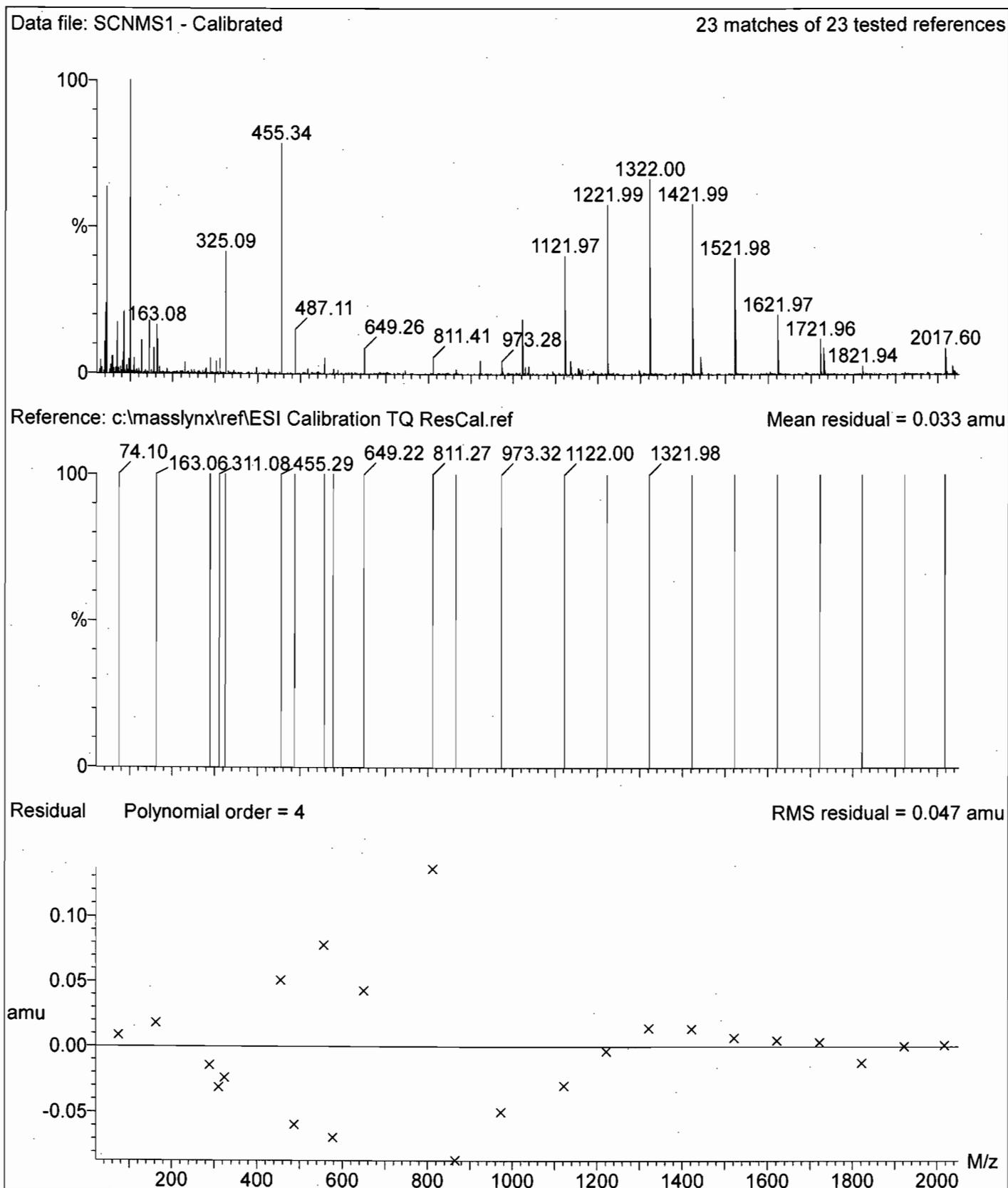


Residual Polynomial order = 4

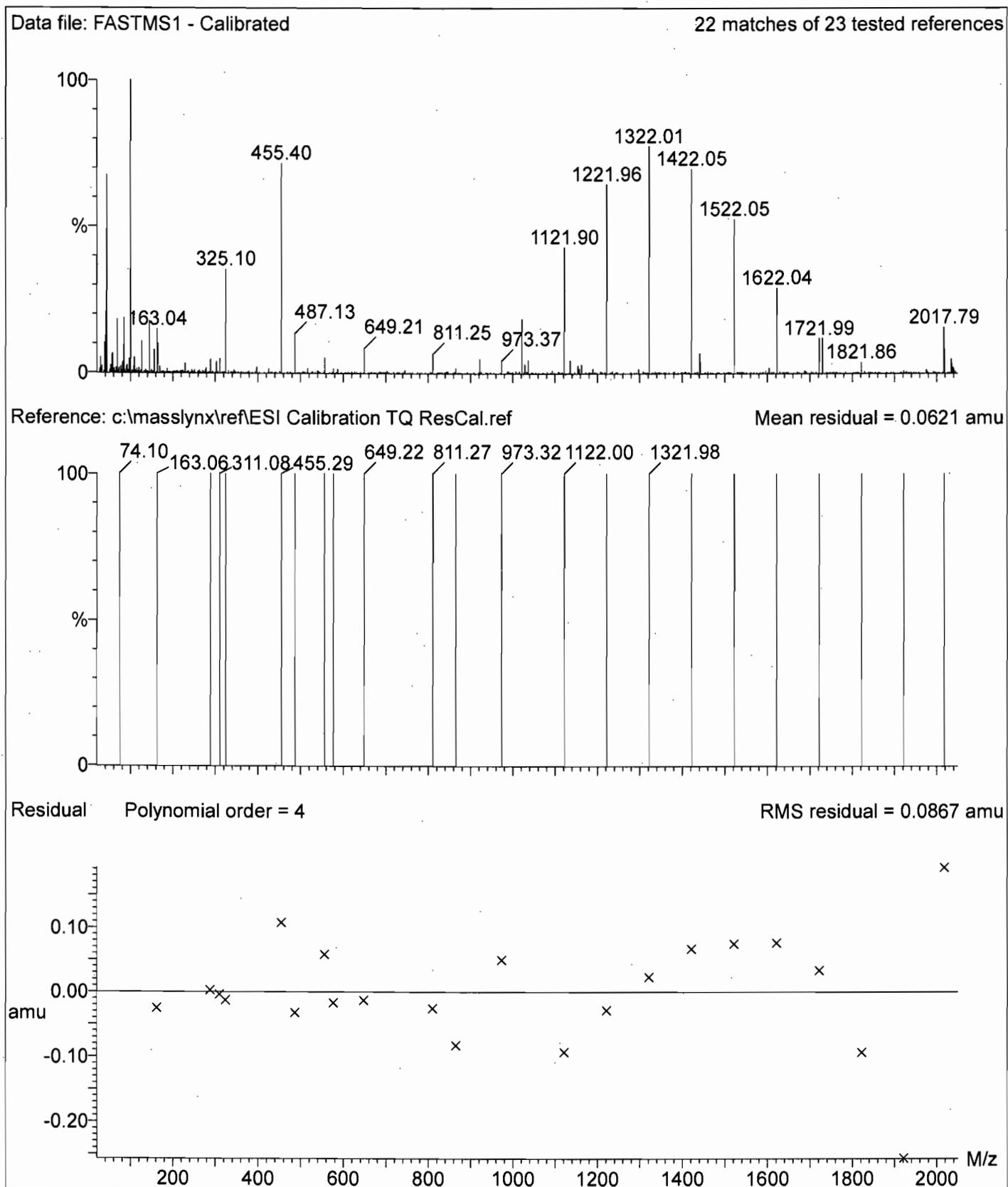
RMS residual = 0.0466 amu



Printed: Sat Dec 29 11:14:02 2018



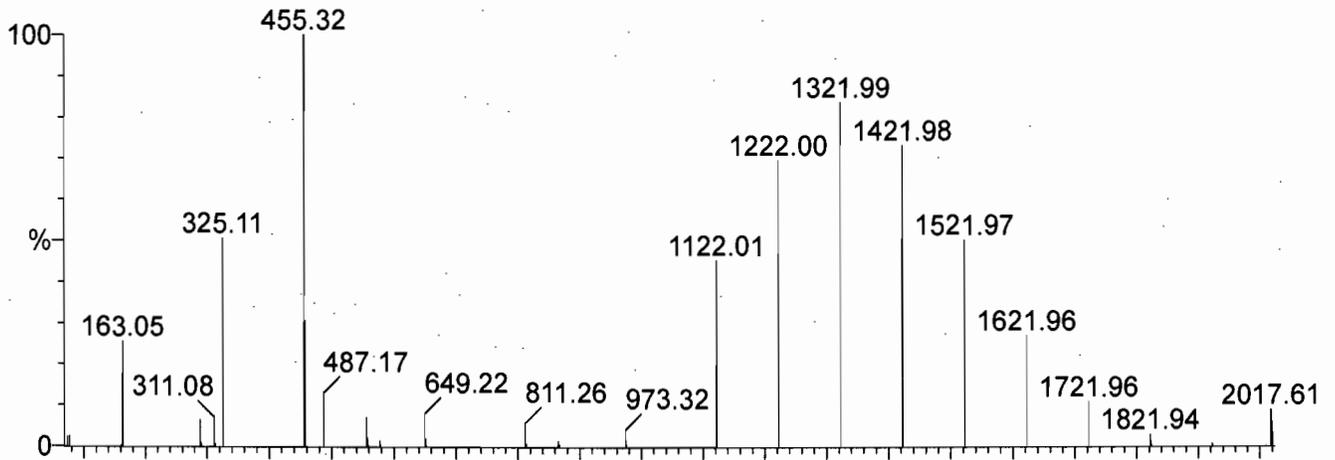
Printed: Sat Dec 29 11:15:13 2018



Printed: Sat Dec 29 11:16:21 2018

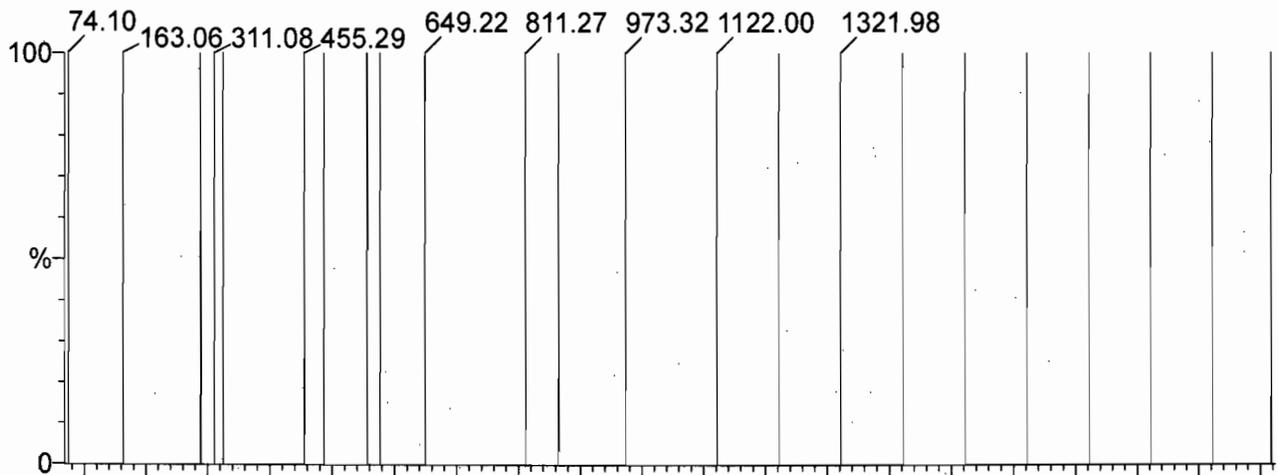
Data file: STATMS2 - Calibrated

22 matches of 23 tested references



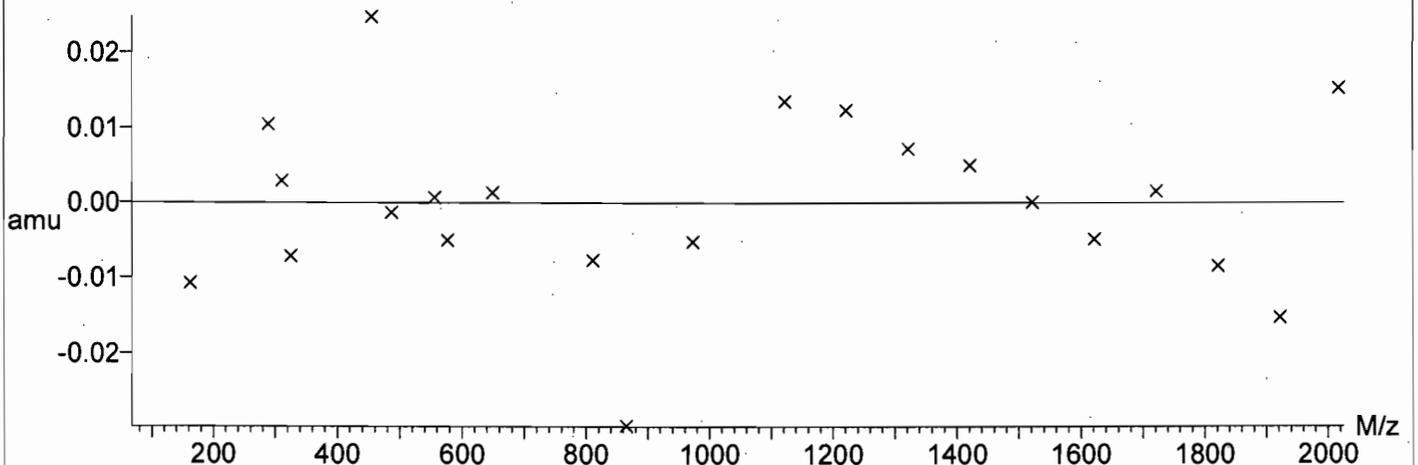
Reference: c:\masslynx\refESI Calibration TQ ResCal.ref

Mean residual = 0.00866 amu

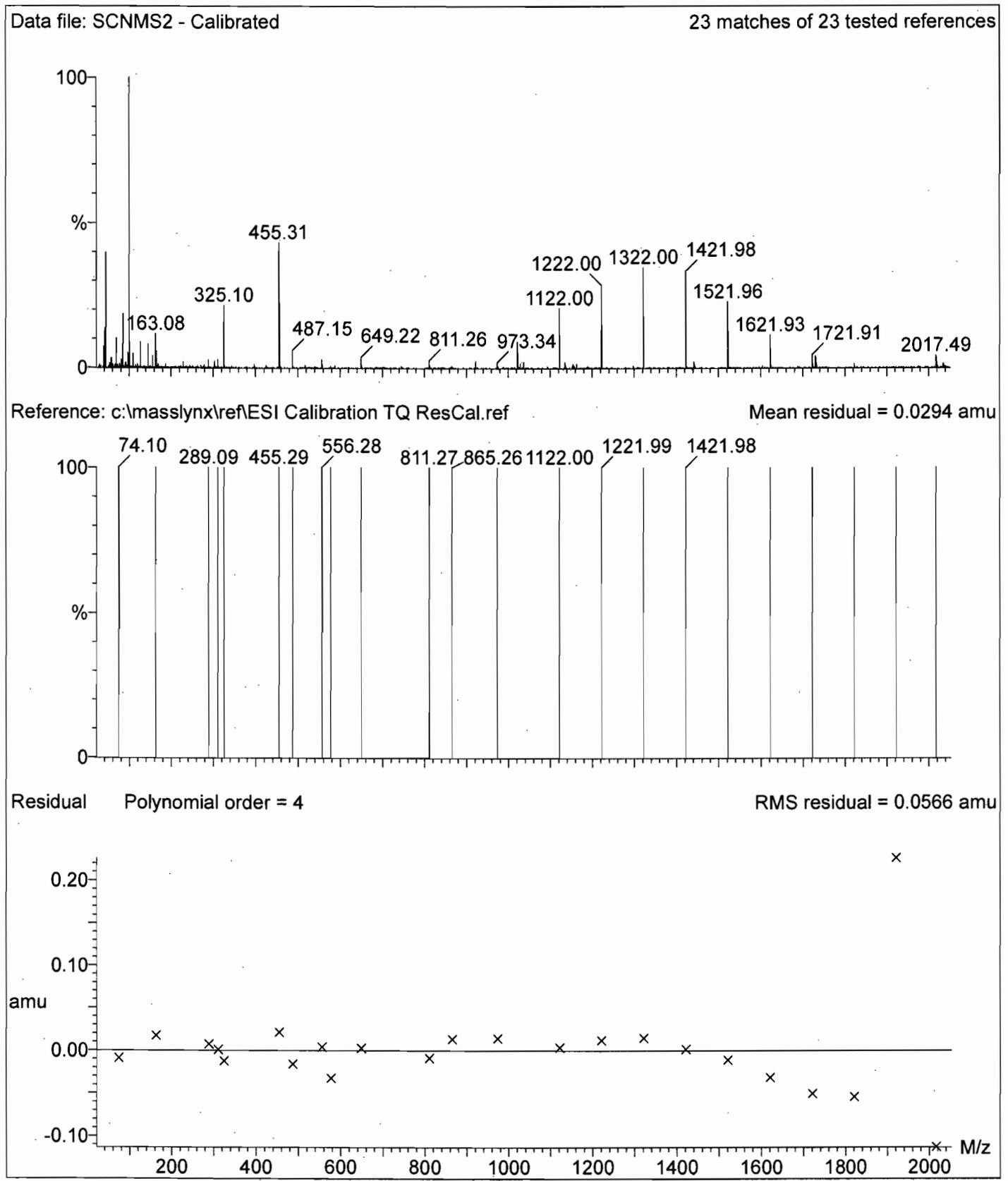


Residual Polynomial order = 4

RMS residual = 0.0114 amu



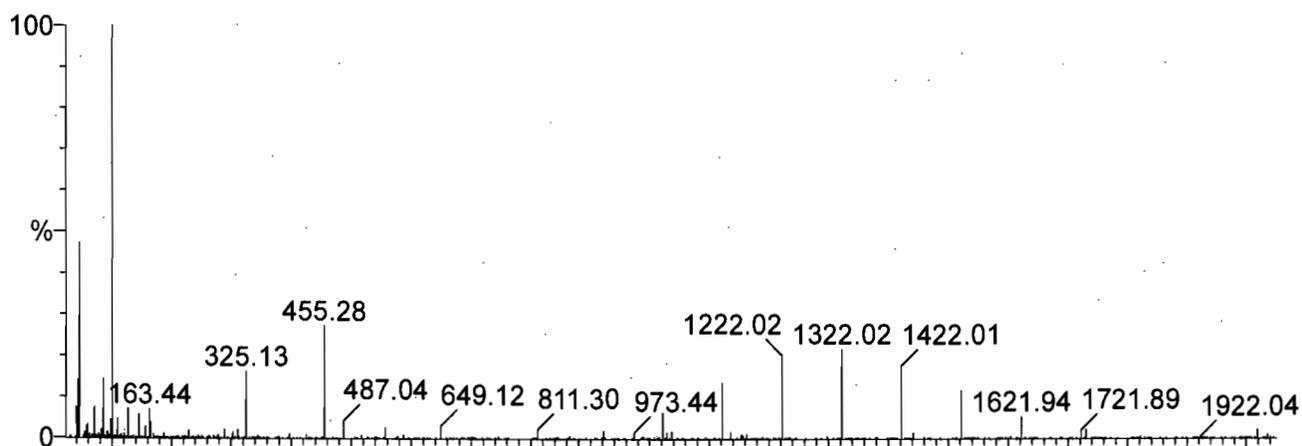
Printed: Sat Dec 29 11:17:30 2018



Printed: Sat Dec 29 11:18:56 2018

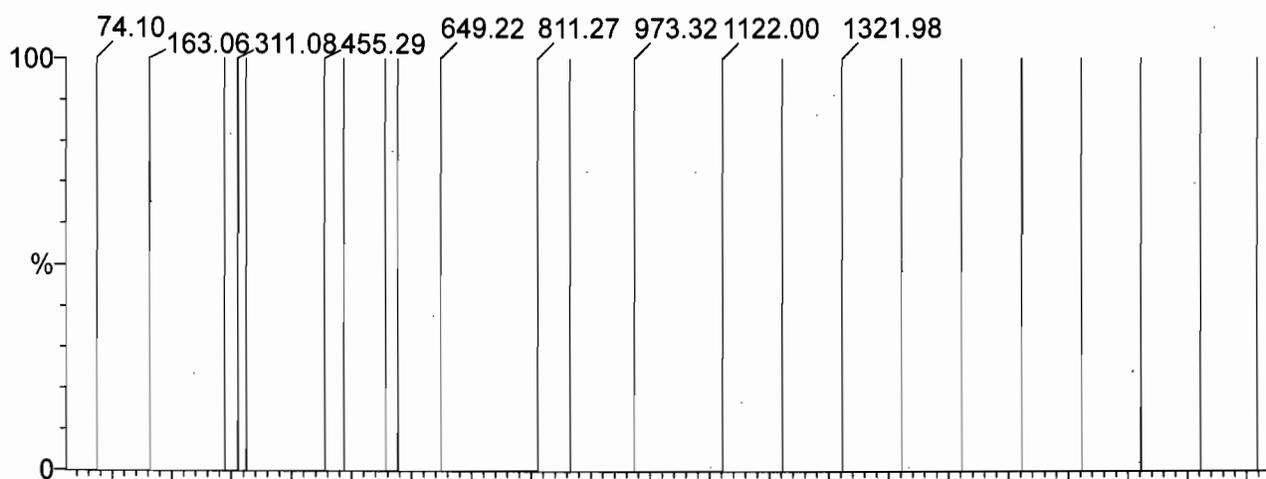
Data file: FASTMS2 - Calibrated

22 matches of 23 tested references



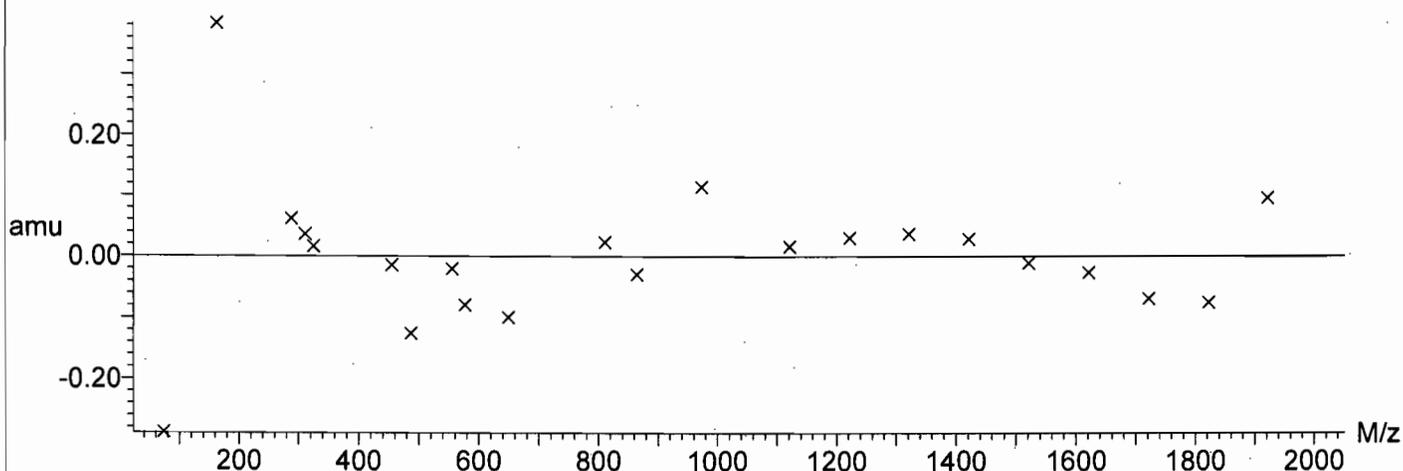
Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref

Mean residual = 0.0763 amu



Residual Polynomial order = 4

RMS residual = 0.118 amu

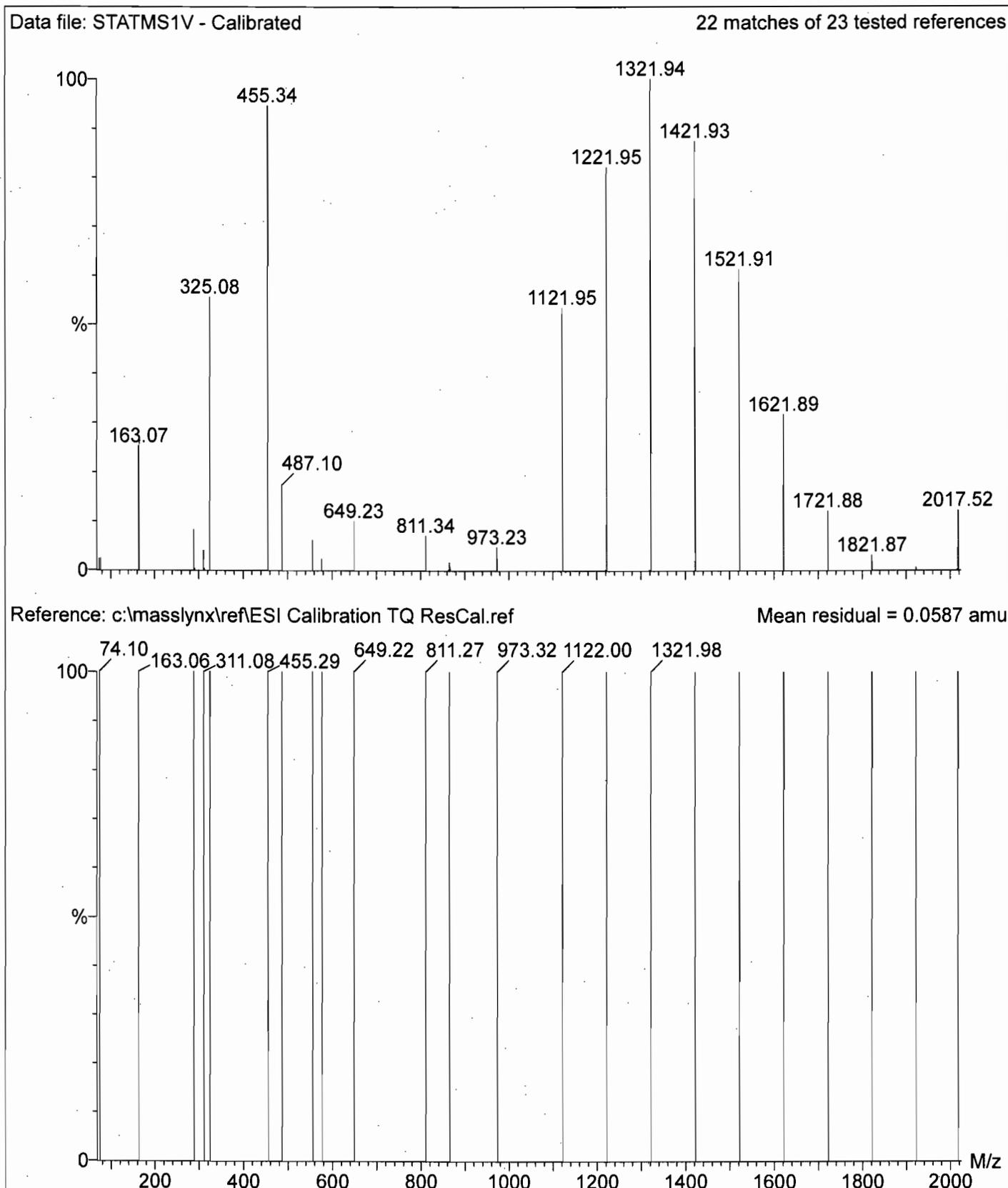


Tunecheck Q4 (M) 12-31-18

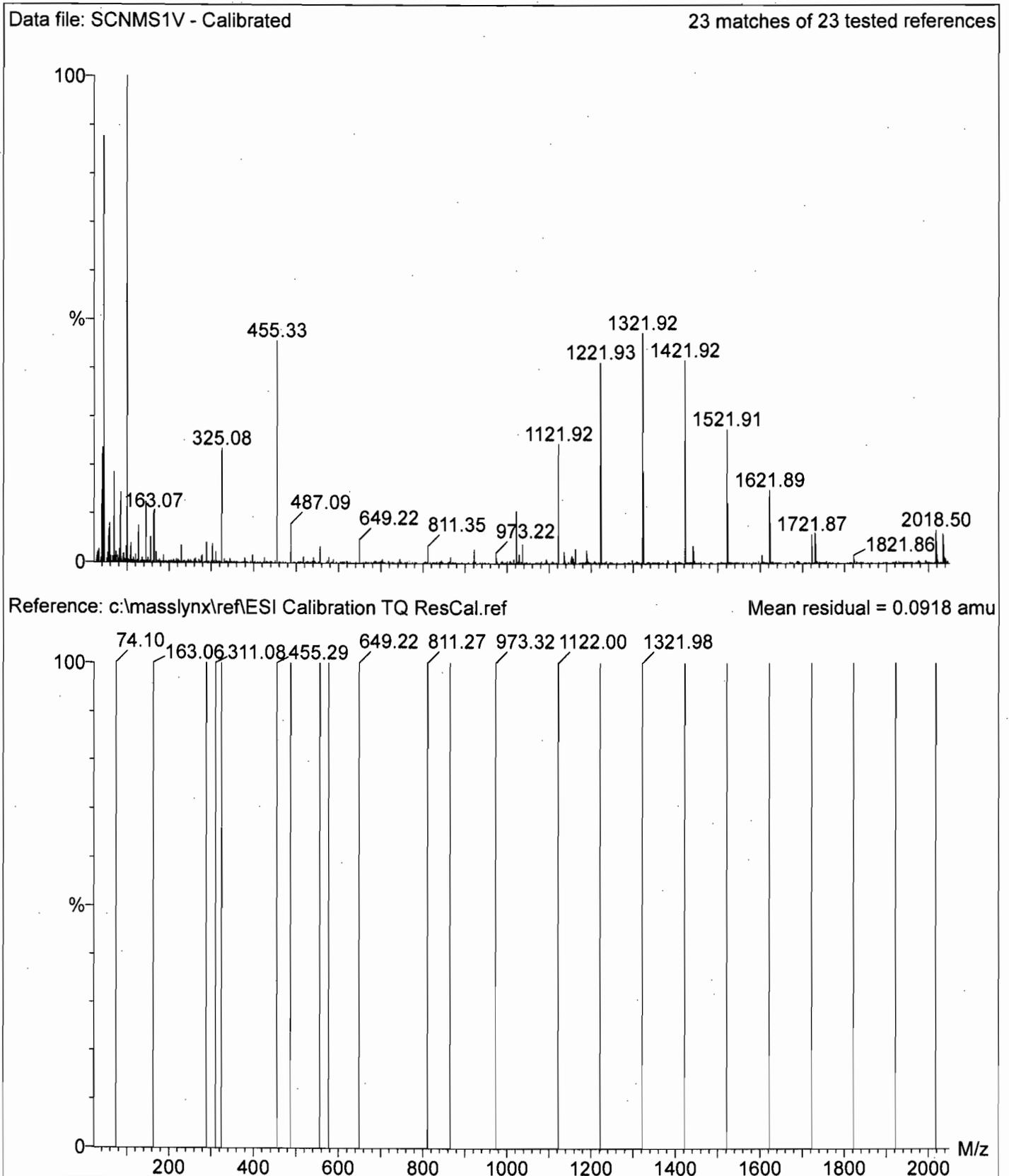
20181229

Calibration Verification Report - MS1 Static

Printed: Mon Dec 31 09:32:30 2018



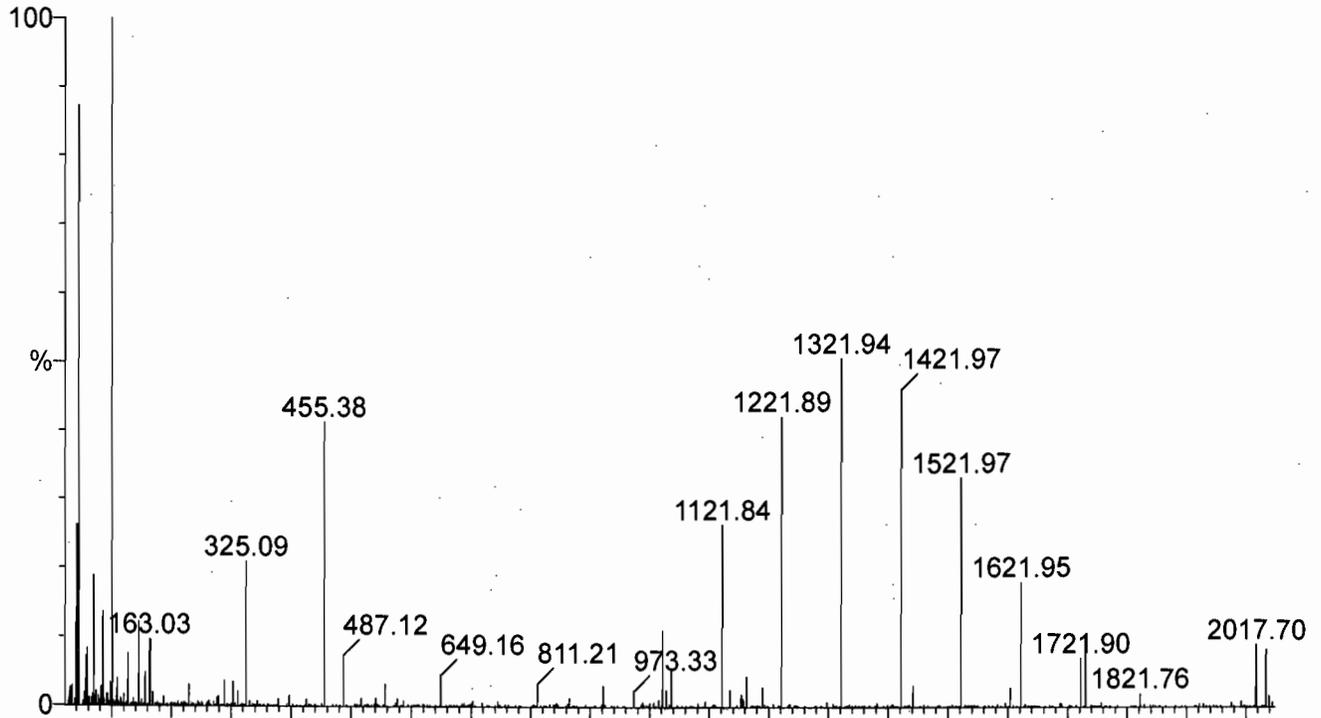
Printed: Mon Dec 31 09:33:39 2018



Printed: Mon Dec 31 09:34:50 2018

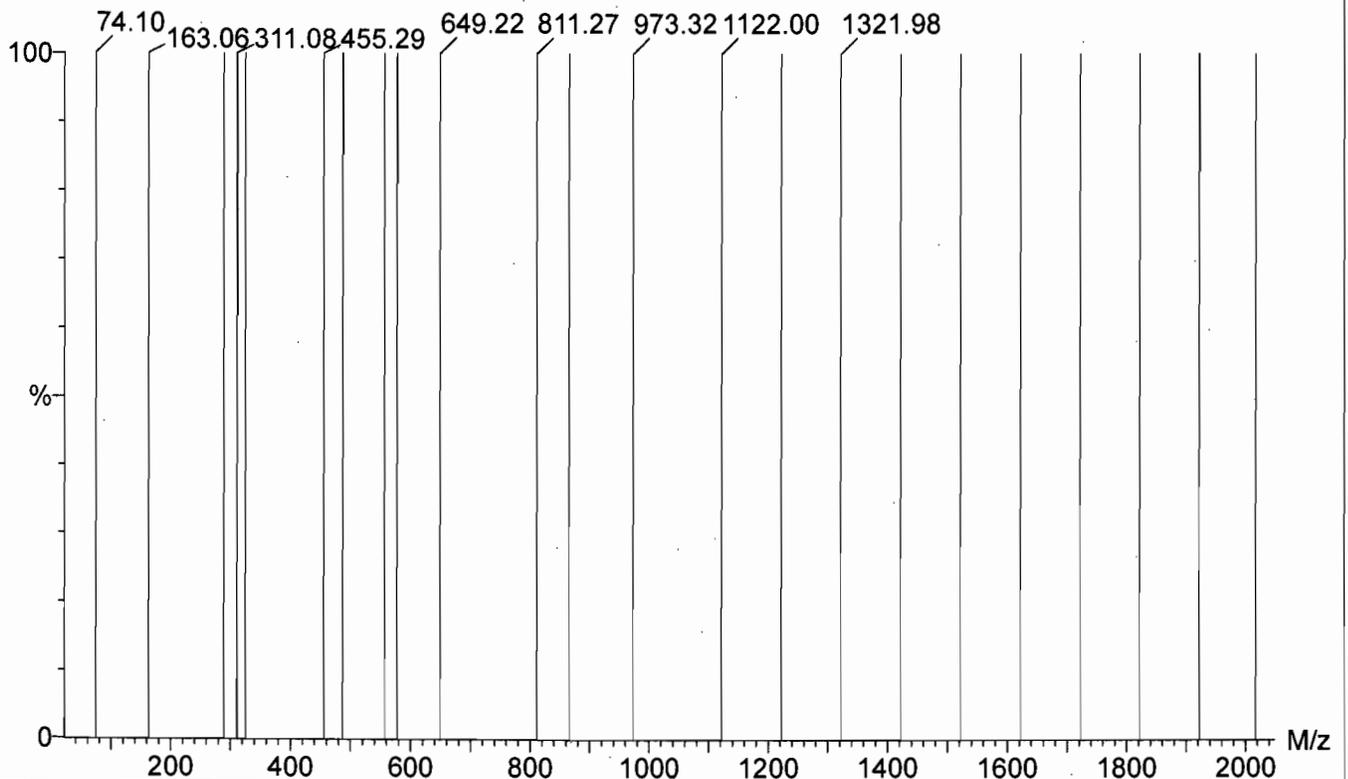
Data file: FASTMS1V - Calibrated

23 matches of 23 tested references

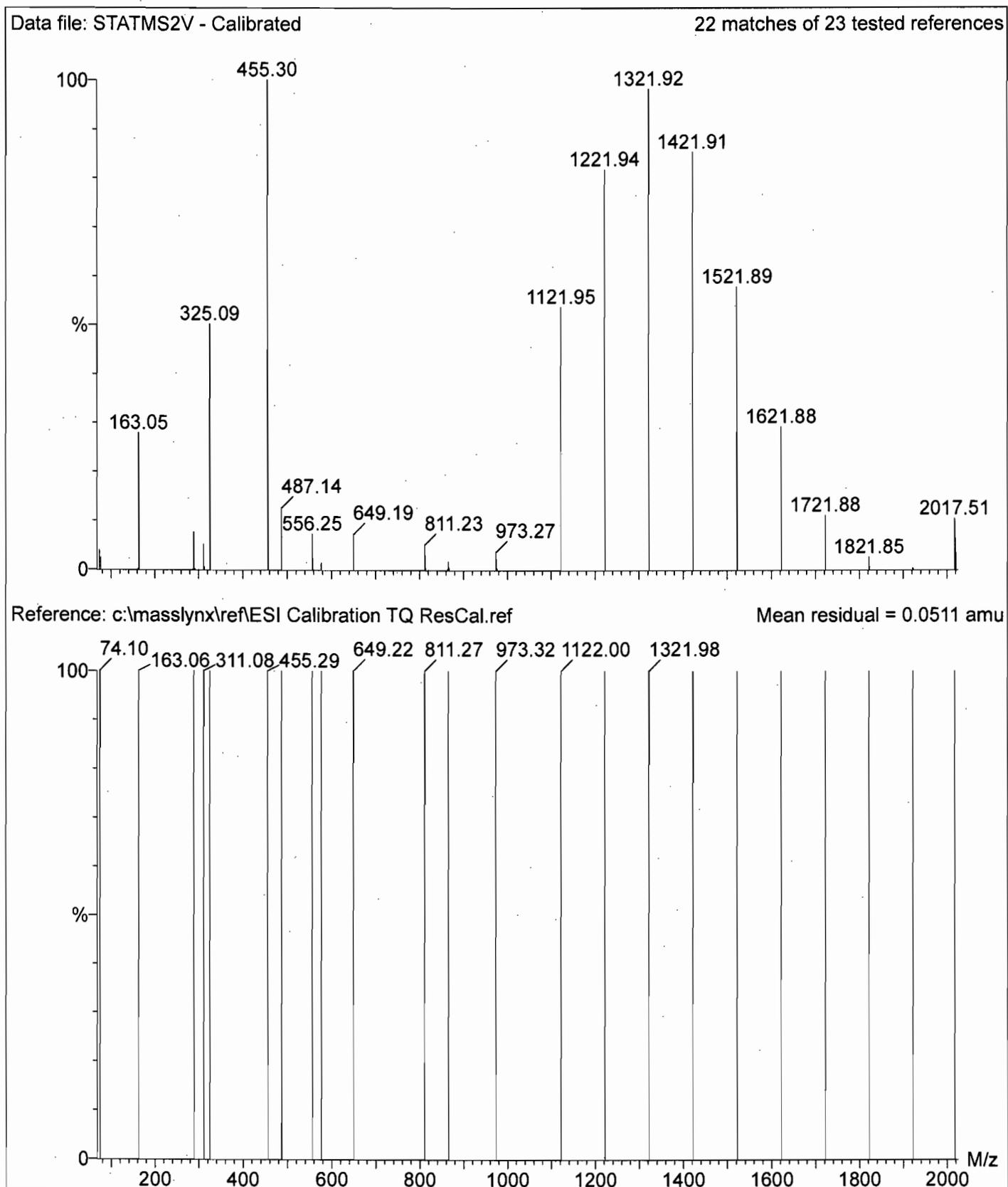


Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref

Mean residual = 0.0984 amu



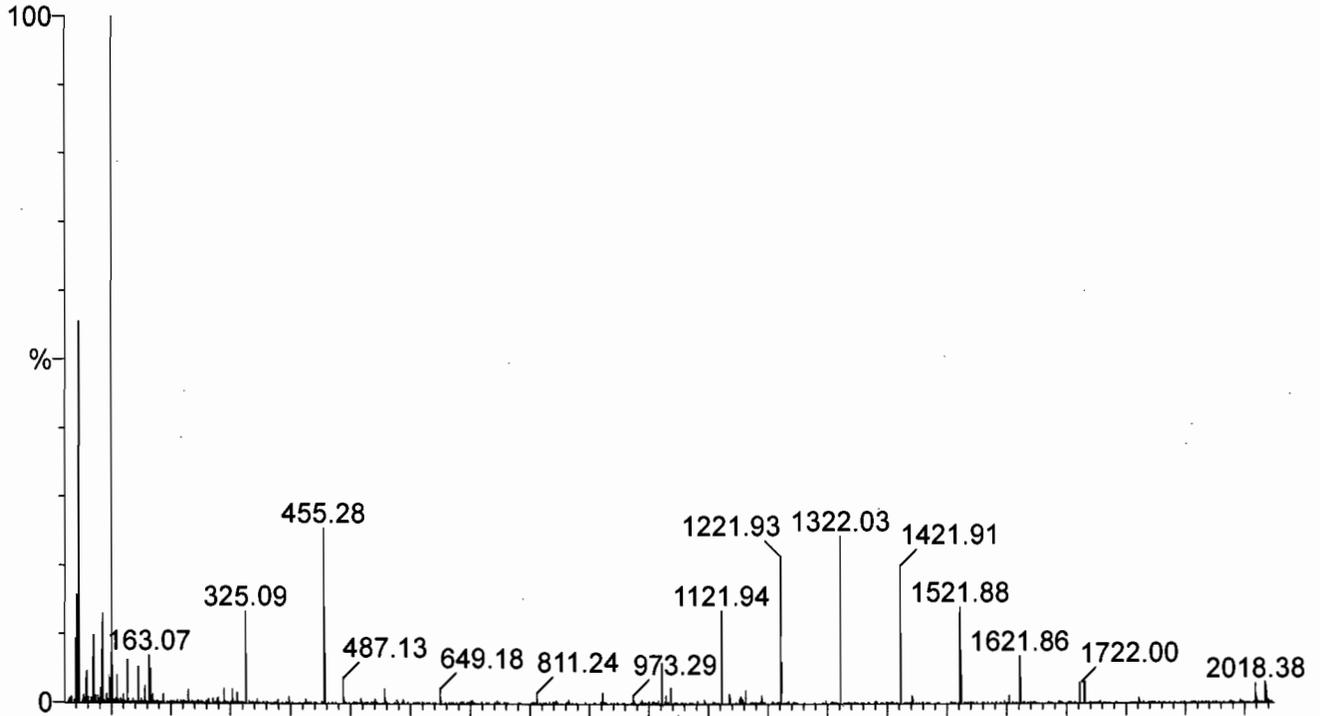
Printed: Mon Dec 31 09:35:58 2018



Printed: Mon Dec 31 09:37:07 2018

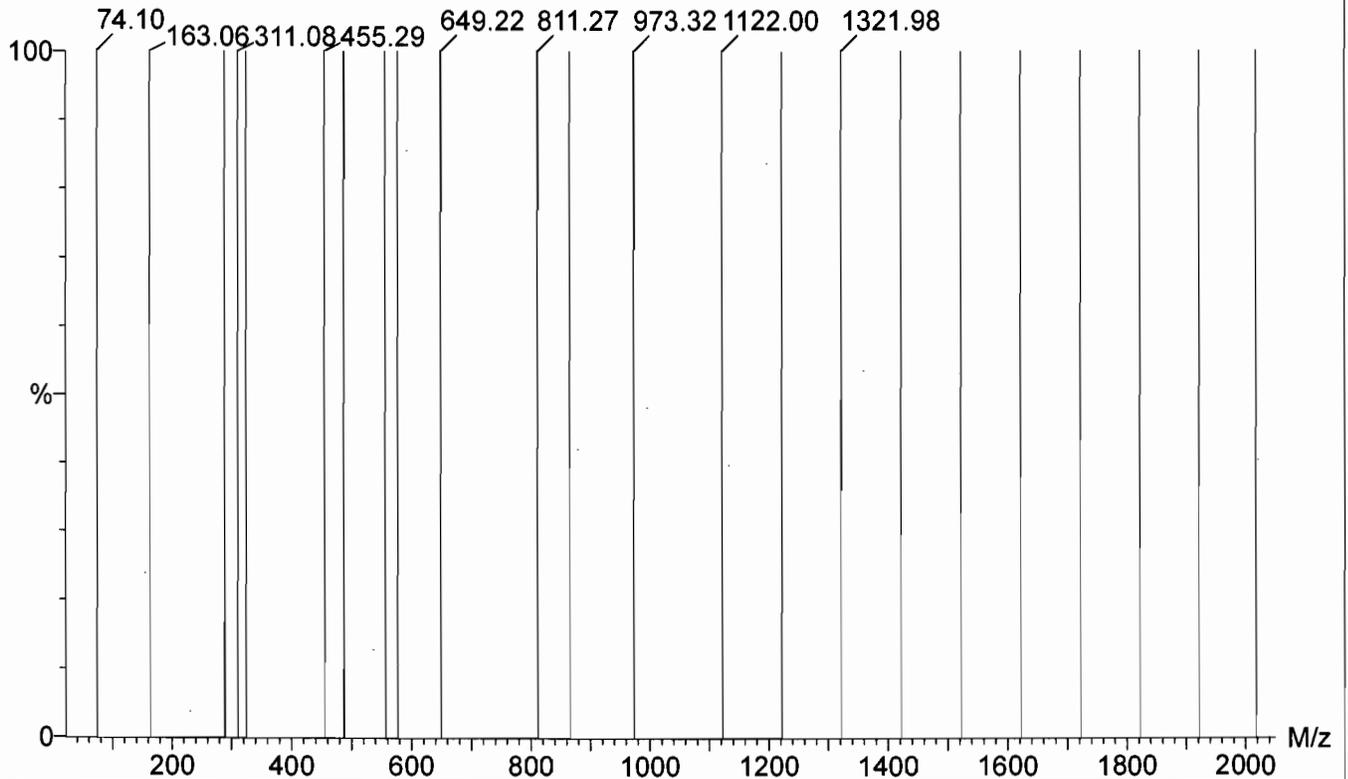
Data file: SCNMS2V - Calibrated

23 matches of 23 tested references

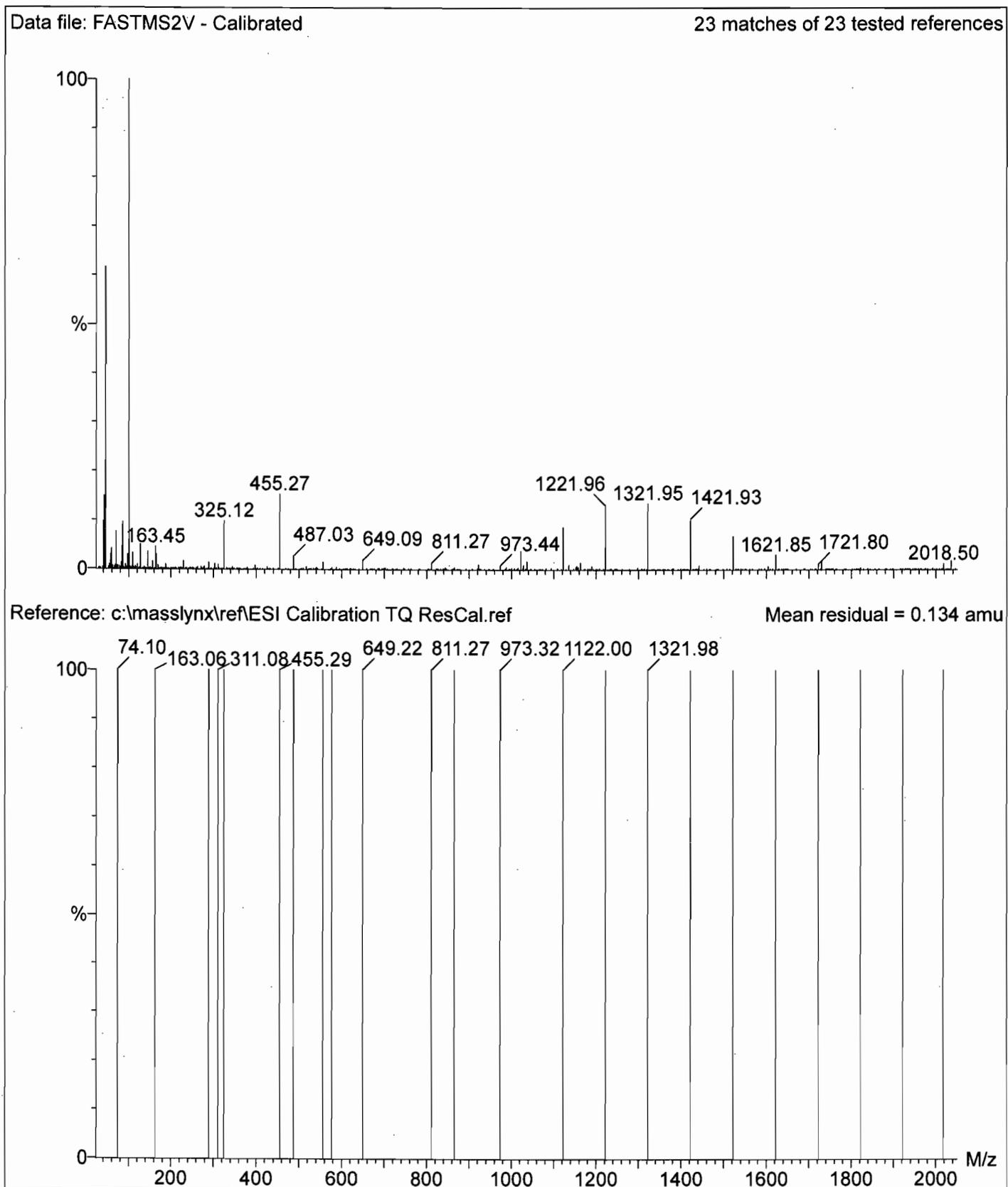


Reference: c:\masslynx\ref\ESI Calibration TQ ResCal.ref

Mean residual = 0.128 amu



Printed: Mon Dec 31 09:38:33 2018



Dataset: Untitled

INITIAL CALIBRATION

Last Altered: Saturday, December 29, 2018 19:30:34 Pacific Standard Time

Printed: Saturday, December 29, 2018 19:30:45 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Compound name: PFBA

#	Name	ID	Acq.Date	Acq.Time
1	1 181229M2_1	IPA	29-Dec-18	13:14:06
2	2 181229M2_2	ST181229M2-1 PFC CS-2 18L2601	29-Dec-18	13:24:43
3	3 181229M2_3	ST181229M2-2 PFC CS-1 18L2602	29-Dec-18	13:35:16
4	4 181229M2_4	ST181229M2-3 PFC CS0 18L2603	29-Dec-18	13:45:55
5	5 181229M2_5	ST181229M2-4 PFC CS1 18L2604	29-Dec-18	13:56:28
6	6 181229M2_6	ST181229M2-5 PFC CS2 18L2605	29-Dec-18	14:07:07
7	7 181229M2_7	ST181229M2-6 PFC CS3 18L2606	29-Dec-18	14:17:39
8	8 181229M2_8	ST181229M2-7 PFC CS4 18L2607	29-Dec-18	14:28:17
9	9 181229M2_9	ST181229M2-8 PFC CS5 18L2608	29-Dec-18	14:38:50
10	10 181229M2_10	ST181229M2-9 PFC CS6 18L2609	29-Dec-18	14:49:28
11	11 181229M2_11	ST181229M2-10 PFC CS7 18L2610	29-Dec-18	15:00:00
12	12 181229M2_12	IPA	29-Dec-18	15:10:39
13	13 181229M2_13	ICV181229M2-1 PFC ICV 18L2611	29-Dec-18	15:21:11
14	14 181229M2_14	IPA	29-Dec-18	15:31:50

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time
 Printed: Saturday, December 29, 2018 17:17:13 Pacific Standard Time

high pt
 4:2 FTS = 100 ✓
 8:2 FTS ↓ ✓

low pt
 PFRS = 0.5 ✓
 MeFOXA = 2.5 ✓

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21
 Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

MTT 12/30/18

Compound name: PFBA

Correlation coefficient: $r = 0.999959$, $r^2 = 0.999917$ ✓

Calibration curve: $1.18588 * x + -0.0823146$

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

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

WBF 12/29/18

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	1.45	155.283	7620.689	0.255	0.3	13.7	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	1.45	291.035	7049.431	0.516	0.5	0.9	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	1.45	601.062	7239.648	1.038	0.9	-5.5	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	1.45	1265.161	7235.906	2.186	1.9	-4.4	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	1.45	3236.612	7504.841	5.391	4.6	-7.7	NO	1.000	NO	MM
6	6 181229M2_7	Standard	10.000	1.45	7365.000	7624.636	12.074	10.3	2.5	NO	1.000	NO	MM
7	7 181229M2_8	Standard	50.000	1.45	37021.902	7693.703	60.150	50.8	1.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	1.45	69776.063	7436.254	117.290	99.0	-1.0	NO	1.000	NO	MM
9	9 181229M2_10	Standard	250.000	1.45	163992.172	6934.977	295.589	249.3	-0.3	NO	1.000	NO	MM
10	10 181229M2_11	Standard	500.000	1.45	311400.188	6550.611	594.220	501.1	0.2	NO	1.000	NO	MM

Compound name: PFPeA

Coefficient of Determination: $R^2 = 0.999938$ ✓

Calibration curve: $2.48403e-005 * x^2 + 1.03326 * x + -0.0426493$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	2.71	185.253	10395.385	0.223	0.3	2.7	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	2.71	404.511	10287.158	0.492	0.5	3.4	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	2.71	824.422	10481.588	0.983	1.0	-0.7	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	2.71	1622.322	10216.553	1.985	2.0	-1.9	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	2.71	3913.166	10204.046	4.794	4.7	-6.4	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	2.71	8207.768	9618.445	10.667	10.4	3.6	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	2.71	40641.691	9993.211	50.837	49.2	-1.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	2.71	80466.250	9627.538	104.474	100.9	0.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	2.71	177010.359	8516.557	259.803	250.0	-0.0	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	2.71	370451.125	8859.089	522.699	499.9	-0.0	NO	1.000	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:17:13 Pacific Standard Time

Compound name: PFBS

Coefficient of Determination: $R^2 = 0.999730$

Calibration curve: $0.00021041 * x^2 + 2.07254 * x + -0.127278$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	3.03	56.722	1527.155	0.464	0.3	14.2	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	3.03	109.506	1540.521	0.889	0.5	-2.0	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	3.03	228.642	1562.691	1.829	0.9	-5.6	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	3.03	478.864	1488.365	4.022	2.0	0.1	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	3.03	1177.937	1551.050	9.493	4.6	-7.2	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	3.03	2510.508	1471.292	21.329	10.3	3.4	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	3.03	11846.454	1462.293	101.266	48.7	-2.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	3.03	23060.689	1405.650	205.071	98.0	-2.0	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	3.03	49517.758	1139.932	542.990	255.4	2.2	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	3.03	99019.484	1141.903	1083.931	497.9	-0.4	NO	1.000	NO	bb

Compound name: 4:2 FTS

Coefficient of Determination: $R^2 = 0.999772$

Calibration curve: $-0.00286531 * x^2 + 1.14289 * x + -0.0200174$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	3.50	88.219	4144.418	0.266	0.3	0.2	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	3.50	166.096	3846.208	0.540	0.5	-1.9	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	3.50	334.568	3826.278	1.093	1.0	-2.4	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	3.50	690.112	3745.440	2.303	2.0	2.2	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	3.50	1737.767	3896.034	5.575	5.0	-0.9	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	3.50	3461.939	3747.443	11.548	10.4	3.9	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	3.50	15735.150	3992.553	49.264	49.2	-1.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	3.50	29305.051	4263.229	85.924	100.5	0.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	3.50	57212.391	5230.245	136.734			NO	1.000	NO	bbXI
10	10 181229M2_11	Standard	500.000	3.50	104122.813	6853.290	189.914			NO	1.000	NO	bbXI

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Compound name: PFHxA

Coefficient of Determination: R² = 0.999886

Calibration curve: $-0.000171925 * x^2 + 0.995181 * x + -0.00364292$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	3.59	415.385	7600.956	0.273	0.3	11.3	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	3.59	795.218	7650.732	0.520	0.5	5.2	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	3.60	1477.739	7756.406	0.953	1.0	-3.9	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	3.59	2702.775	7374.592	1.832	1.8	-7.7	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	3.59	6949.565	7533.261	4.613	4.6	-7.2	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	3.59	14795.255	7328.587	10.094	10.2	1.6	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	3.59	71741.117	7336.411	48.894	49.6	-0.9	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	3.59	139255.172	7181.619	96.952	99.1	-0.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	3.59	302184.438	6273.787	240.831	253.1	1.2	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	3.59	612913.688	6758.698	453.426	498.6	-0.3	NO	1.000	NO	bb

Compound name: PFPeS

Coefficient of Determination: R² = 0.999381

Calibration curve: $-0.000173322 * x^2 + 1.78673 * x + -0.37064$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	3.80	62.046	1527.155	0.508	0.5	96.7	YES	0.999	NO	bbX
2	2 181229M2_3	Standard	0.500	3.81	72.979	1540.521	0.592	0.5	7.8	NO	0.999	NO	bb
3	3 181229M2_4	Standard	1.000	3.81	169.905	1562.691	1.359	1.0	-3.2	NO	0.999	NO	bb
4	4 181229M2_5	Standard	2.000	3.80	409.441	1488.365	3.439	2.1	6.6	NO	0.999	NO	bb
5	5 181229M2_6	Standard	5.000	3.80	980.611	1551.050	7.903	4.6	-7.3	NO	0.999	NO	bb
6	6 181229M2_7	Standard	10.000	3.80	2063.432	1471.292	17.531	10.0	0.3	NO	0.999	NO	bb
7	7 181229M2_8	Standard	50.000	3.80	9930.264	1462.293	84.886	47.9	-4.1	NO	0.999	NO	bb
8	8 181229M2_9	Standard	100.000	3.80	19293.520	1405.650	171.571	97.1	-2.9	NO	0.999	NO	bb
9	9 181229M2_10	Standard	250.000	3.80	41104.926	1139.932	450.739	259.0	3.6	NO	0.999	NO	bb
10	10 181229M2_11	Standard	500.000	3.80	77046.516	1141.903	843.400	496.1	-0.8	NO	0.999	NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Compound name: PFHpA

Correlation coefficient: $r = 0.999939$, $r^2 = 0.999877$

Calibration curve: $1.47858 * x + -0.0196842$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	4.22	309.617	10070.699	0.384	0.3	9.3	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	4.23	594.519	9782.876	0.760	0.5	5.4	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	4.23	1095.823	10384.069	1.319	0.9	-9.5	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	4.22	2277.978	9814.389	2.901	2.0	-1.2	NO	1.000	NO	dd
5	5 181229M2_6	Standard	5.000	4.23	5474.687	9885.493	6.923	4.7	-6.1	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	4.23	11328.546	9237.949	15.329	10.4	3.8	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	4.23	55881.512	9592.961	72.816	49.3	-1.5	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	4.23	107291.008	9054.301	148.122	100.2	0.2	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	4.23	229913.672	7863.701	365.467	247.2	-1.1	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	4.23	451624.125	7585.454	744.227	503.4	0.7	NO	1.000	NO	bb

Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999709$

Calibration curve: $-9.74234e-005 * x^2 + 2.03406 * x + -0.0714373$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	4.36	47.996	1262.780	0.475	0.3	7.5	NO	1.000	NO	MM
2	2 181229M2_3	Standard	0.500	4.36	91.823	1244.552	0.922	0.5	-2.3	NO	1.000	NO	MM
3	3 181229M2_4	Standard	1.000	4.36	180.724	1298.589	1.740	0.9	-11.0	NO	1.000	NO	MM
4	4 181229M2_5	Standard	2.000	4.36	389.475	1178.653	4.131	2.1	3.3	NO	1.000	NO	MM
5	5 181229M2_6	Standard	5.000	4.36	942.838	1276.862	9.230	4.6	-8.5	NO	1.000	NO	MM
6	6 181229M2_7	Standard	10.000	4.36	1961.566	1261.164	19.442	9.6	-4.0	NO	1.000	NO	MM
7	7 181229M2_8	Standard	50.000	4.36	9824.964	1181.315	103.962	51.3	2.5	NO	1.000	NO	MM
8	8 181229M2_9	Standard	100.000	4.36	18578.162	1181.546	196.545	97.1	-2.9	NO	1.000	NO	MM
9	9 181229M2_10	Standard	250.000	4.36	40411.582	989.524	510.493	254.1	1.6	NO	1.000	NO	MM
10	10 181229M2_11	Standard	500.000	4.36	77863.609	983.657	989.466	498.4	-0.3	NO	1.000	NO	MM

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Compound name: 6:2 FTS

Coefficient of Determination: R² = 0.999927

Calibration curve: $-0.000482516 * x^2 + 1.79085 * x + -0.0431136$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	4.66	117.281	3345.705	0.438	0.3	7.5	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	4.66	201.720	3256.189	0.774	0.5	-8.7	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	4.67	475.444	3306.510	1.797	1.0	2.8	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	4.66	866.033	3145.370	3.442	1.9	-2.7	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	4.67	2066.181	3174.227	8.137	4.6	-8.5	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	4.67	4354.919	3058.315	17.800	10.0	-0.1	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	4.67	20958.795	2978.305	87.964	49.8	-0.4	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	4.66	36994.273	2654.524	174.204	100.0	-0.0	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	4.66	76307.469	2271.882	419.847	251.5	0.6	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	4.67	138165.953	2232.428	773.631	499.1	-0.2	NO	1.000	NO	bb

Compound name: L-PFOA

Coefficient of Determination: R² = 0.999851

Calibration curve: $-6.34381e-005 * x^2 + 1.47701 * x + 0.0362127$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	4.72	601.476	17667.383	0.426	0.3	5.4	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	4.72	1080.039	17206.539	0.785	0.5	1.3	NO	1.000	NO	MM
3	3 181229M2_4	Standard	1.000	4.72	2054.667	17826.404	1.441	1.0	-4.9	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	4.72	4017.647	17016.633	2.951	2.0	-1.3	NO	1.000	NO	MM
5	5 181229M2_6	Standard	5.000	4.72	9378.063	17100.818	6.855	4.6	-7.6	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	4.72	20437.285	16373.734	15.602	10.5	5.4	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	4.72	99001.906	16492.891	75.034	50.9	1.8	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	4.72	193028.188	16256.074	148.428	100.9	0.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	4.72	407895.750	14141.070	360.559	246.7	-1.3	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	4.72	796390.250	13737.383	724.656	501.4	0.3	NO	1.000	NO	bb

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Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.999813$

Calibration curve: $1.51699e-005 * x^2 + 0.85266 * x + -0.044668$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 181229M2_2	Standard	0.250	4.82	41.959	3779.517	0.139	0.2	-13.9	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	4.82	104.305	3249.811	0.401	0.5	4.6	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	4.82	225.014	3501.057	0.803	1.0	-0.5	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	4.82	448.468	3287.353	1.705	2.1	2.6	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	4.83	1166.806	3543.938	4.115	4.9	-2.4	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	4.83	2479.615	3262.650	9.500	11.2	11.9	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	4.83	11742.918	3507.401	41.850	49.1	-1.8	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	4.82	22875.717	3365.886	84.954	99.5	-0.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	4.82	48197.277	2811.474	214.288	250.3	0.1	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	4.83	92877.242	2699.230	430.110	500.0	0.0	NO	1.000	NO	bb

Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999915$

Calibration curve: $-2.05618e-005 * x^2 + 1.26573 * x + -0.0640136$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 181229M2_2	Standard	0.250	5.15	414.647	17629.832	0.294	0.3	13.1	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	5.15	781.095	17409.248	0.561	0.5	-1.3	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	5.15	1694.039	18135.689	1.168	1.0	-2.7	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	5.15	3221.002	17345.088	2.321	1.9	-5.8	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	5.16	8124.937	17095.766	5.941	4.7	-5.1	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	5.15	17271.658	16737.436	12.899	10.2	2.4	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	5.16	81839.773	16546.188	61.827	48.9	-2.1	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	5.15	164571.203	16046.554	128.198	101.5	1.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	5.15	344898.531	13695.215	314.798	249.8	-0.1	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	5.16	642196.000	12791.653	627.554	499.9	-0.0	NO	1.000	NO	bb

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Compound name: PFOSA

Coefficient of Determination: R² = 0.998926

Calibration curve: 0.000275834 * x² + 1.11214 * x + 0.0389668

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.19	101.129	4615.137	0.274	0.2	-15.5	NO	0.999	NO	bb
2	2 181229M2_3	Standard	0.500	5.19	219.165	4368.309	0.627	0.5	5.8	NO	0.999	NO	bb
3	3 181229M2_4	Standard	1.000	5.19	384.726	4449.304	1.081	0.9	-6.3	NO	0.999	NO	bb
4	4 181229M2_5	Standard	2.000	5.19	824.062	4170.515	2.470	2.2	9.2	NO	0.999	NO	bb
5	5 181229M2_6	Standard	5.000	5.20	1860.238	4506.877	5.159	4.6	-8.0	NO	0.999	NO	bb
6	6 181229M2_7	Standard	10.000	5.19	4114.539	4195.290	12.259	11.0	9.6	NO	0.999	NO	bb
7	7 181229M2_8	Standard	50.000	5.20	19854.988	4198.639	59.111	52.4	4.9	NO	0.999	NO	bb
8	8 181229M2_9	Standard	100.000	5.19	37972.340	3996.380	118.771	104.1	4.1	NO	0.999	NO	bb
9	9 181229M2_10	Standard	250.000	5.19	84175.289	3741.253	281.240	238.7	-4.5	NO	0.999	NO	bb
10	10 181229M2_11	Standard	500.000	5.20	172027.766	3408.612	630.857	504.2	0.8	NO	0.999	NO	bb

Compound name: L-PFOS

Correlation coefficient: r = 0.999657, r² = 0.999314

Calibration curve: 1.10276 * x + -0.060196

Response type: Internal Std (Ref 47), 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 181229M2_2	Standard	0.250	5.24	70.745	3779.517	0.234	0.3	6.7	NO	0.999	NO	MM
2	2 181229M2_3	Standard	0.500	5.24	129.394	3249.811	0.498	0.5	1.2	NO	0.999	NO	MM
3	3 181229M2_4	Standard	1.000	5.24	295.746	3501.057	1.056	1.0	1.2	NO	0.999	NO	MM
4	4 181229M2_5	Standard	2.000	5.24	504.690	3287.353	1.919	1.8	-10.3	NO	0.999	NO	MM
5	5 181229M2_6	Standard	5.000	5.24	1413.601	3543.938	4.986	4.6	-8.5	NO	0.999	NO	MM
6	6 181229M2_7	Standard	10.000	5.24	2776.826	3262.650	10.639	9.7	-3.0	NO	0.999	NO	MM
7	7 181229M2_8	Standard	50.000	5.24	14340.026	3507.401	51.106	46.4	-7.2	NO	0.999	NO	MM
8	8 181229M2_9	Standard	100.000	5.23	28406.238	3365.886	105.493	95.7	-4.3	NO	0.999	NO	MM
9	9 181229M2_10	Standard	250.000	5.23	62637.730	2811.474	278.492	252.6	1.0	NO	0.999	NO	MM
10	10 181229M2_11	Standard	500.000	5.24	120522.742	2699.230	558.135	506.2	1.2	NO	0.999	NO	MM

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Compound name: PFDA

Coefficient of Determination: R² = 0.999598

Calibration curve: $-0.00012428 * x^2 + 1.23984 * x + 0.0179882$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.52	466.227	18333.279	0.318	0.2	-3.2	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	5.53	871.188	17810.100	0.611	0.5	-4.3	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	5.53	1988.713	18748.252	1.326	1.1	5.5	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	5.53	3680.050	17760.555	2.590	2.1	3.7	NO	1.000	NO	MM
5	5 181229M2_6	Standard	5.000	5.53	8739.215	18609.666	5.870	4.7	-5.6	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	5.53	18320.480	17647.195	12.977	10.5	4.6	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	5.53	93043.516	18481.264	62.931	51.0	2.0	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	5.52	166862.109	17766.760	117.398	95.6	-4.4	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	5.52	367016.219	14900.956	307.880	254.8	1.9	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	5.53	707503.688	15066.822	586.972	498.3	-0.3	NO	1.000	NO	bb

Compound name: 8:2 FTS

Coefficient of Determination: R² = 0.998842

Calibration curve: $-0.00395163 * x^2 + 1.52796 * x + -0.023333$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.50	107.649	3570.586	0.377	0.3	4.8	NO	0.999	NO	bb
2	2 181229M2_3	Standard	0.500	5.50	229.003	3638.608	0.787	0.5	6.2	NO	0.999	NO	bb
3	3 181229M2_4	Standard	1.000	5.50	368.358	3552.131	1.296	0.9	-13.4	NO	0.999	NO	bb
4	4 181229M2_5	Standard	2.000	5.50	795.733	3342.833	2.976	2.0	-1.4	NO	0.999	NO	bb
5	5 181229M2_6	Standard	5.000	5.50	2043.763	3512.961	7.272	4.8	-3.3	NO	0.999	NO	bb
6	6 181229M2_7	Standard	10.000	5.50	4506.786	3485.349	16.163	10.9	9.0	NO	0.999	NO	bb
7	7 181229M2_8	Standard	50.000	5.50	20792.213	4000.156	64.973	48.7	-2.7	NO	0.999	NO	bb
8	8 181229M2_9	Standard	100.000	5.50	38304.438	4203.653	113.902	100.9	0.9	NO	0.999	NO	bb
9	9 181229M2_10	Standard	250.000	5.50	74439.086	5004.237	185.940	254.8	1.9	NO	0.999	NO	bbXI ✓
10	10 181229M2_11	Standard	500.000	5.50	133547.016	6849.592	243.713	498.3	-0.3	NO	0.999	NO	bbXI ✓

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Compound name: PFNS

Coefficient of Determination: $R^2 = 0.999544$
 Calibration curve: $4.38436e-005 * x^2 + 0.721731 * x + -0.0176607$
 Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.59	55.499	3779.517	0.184	0.3	11.5	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	5.59	76.303	3249.811	0.293	0.4	-13.8	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	5.59	188.561	3501.057	0.673	1.0	-4.3	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	5.59	390.420	3287.353	1.485	2.1	4.1	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	5.59	944.833	3543.938	3.333	4.6	-7.2	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	5.59	2145.610	3262.650	8.220	11.4	14.1	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	5.59	9722.271	3507.401	34.649	47.9	-4.2	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	5.59	19249.816	3365.886	71.489	98.5	-1.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	5.59	41879.941	2811.474	186.201	254.1	1.6	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	5.59	80035.797	2699.230	370.642	498.5	-0.3	NO	1.000	NO	bb

Compound name: L-MeFOSAA

Coefficient of Determination: $R^2 = 0.999460$
 Calibration curve: $-0.000615975 * x^2 + 2.71861 * x + -0.197701$
 Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.68	104.660	3621.049	0.361	0.2	-17.7	NO	0.999	NO	MM
2	2 181229M2_3	Standard	0.500	5.67	353.366	3912.279	1.129	0.5	-2.4	NO	0.999	NO	MM
3	3 181229M2_4	Standard	1.000	5.68	712.129	3760.537	2.367	0.9	-5.6	NO	0.999	NO	MM
4	4 181229M2_5	Standard	2.000	5.68	1548.478	3712.569	5.214	2.0	-0.4	NO	0.999	NO	MM
5	5 181229M2_6	Standard	5.000	5.68	3620.537	3627.725	12.475	4.7	-6.7	NO	0.999	NO	MM
6	6 181229M2_7	Standard	10.000	5.68	7904.671	3573.399	27.651	10.3	2.7	NO	0.999	NO	MM
7	7 181229M2_8	Standard	50.000	5.68	37303.348	3327.247	140.143	52.2	4.5	NO	0.999	NO	MM
8	8 181229M2_9	Standard	100.000	5.67	73393.594	3622.540	253.253	95.3	-4.7	NO	0.999	NO	MM
9	9 181229M2_10	Standard	250.000	5.67	155887.094	2993.784	650.878	254.1	1.6	NO	0.999	NO	MM
10	10 181229M2_11	Standard	500.000	5.68	294518.938	3062.787	1202.005	498.5	-0.3	NO	0.999	NO	MM

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Compound name: L-EtFOSAA

Coefficient of Determination: $R^2 = 0.999330$

Calibration curve: $-0.000297179 * x^2 + 1.63616 * x + -0.138937$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	5.83	91.597	5344.063	0.214	0.2	-13.7	NO	0.999	NO	MM
2	2 181229M2_3	Standard	0.500	5.83	334.760	5244.018	0.798	0.6	14.5	NO	0.999	NO	MM
3	3 181229M2_4	Standard	1.000	5.83	762.096	5483.333	1.737	1.1	14.7	NO	0.999	NO	MM
4	4 181229M2_5	Standard	2.000	5.83	1246.997	5300.130	2.941	1.9	-5.8	NO	0.999	NO	MM
5	5 181229M2_6	Standard	5.000	5.83	2825.907	5271.415	6.701	4.2	-16.3	NO	0.999	NO	MM
6	6 181229M2_7	Standard	10.000	5.83	6807.914	5126.773	16.599	10.2	2.5	NO	0.999	NO	MM
7	7 181229M2_8	Standard	50.000	5.83	32001.125	4788.107	83.543	51.6	3.3	NO	0.999	NO	MM
8	8 181229M2_9	Standard	100.000	5.83	60794.680	4589.522	165.580	103.2	3.2	NO	0.999	NO	MM
9	9 181229M2_10	Standard	250.000	5.83	124496.625	4104.808	379.118	242.5	-3.0	NO	0.999	NO	MM
10	10 181229M2_11	Standard	500.000	5.83	228158.859	3812.908	747.982	503.2	0.6	NO	0.999	NO	MM

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21
 Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Compound name: PFuDA

Coefficient of Determination: R² = 0.999605
 Calibration curve: $-0.000140506 * x^2 + 1.00549 * x + 0.0170739$
 Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 181229M2_2	Standard	0.250	5.85	542.678	23739.340	0.286	0.3	6.9	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	5.85	1033.551	23214.604	0.557	0.5	7.3	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	5.85	1939.534	24451.715	0.992	1.0	-3.1	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	5.85	3744.549	23883.965	1.960	1.9	-3.4	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	5.85	9056.610	24185.852	4.681	4.6	-7.2	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	5.85	18311.686	23192.795	9.869	9.8	-1.9	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	5.85	92421.500	23517.455	49.124	49.2	-1.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	5.85	178618.297	21556.801	103.574	104.5	4.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	5.84	356857.625	18727.865	238.186	245.3	-1.9	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	5.85	678521.813	18082.311	469.051	501.6	0.3	NO	1.000	NO	bb

Compound name: PFDS

Coefficient of Determination: R² = 0.999807
 Calibration curve: $3.73793e-005 * x^2 + 0.97975 * x + 0.0349328$
 Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x-excluded
1	1 181229M2_2	Standard	0.250	5.90	81.259	3779.517	0.269	0.2	-4.5	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	5.90	150.409	3249.811	0.579	0.6	11.0	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	5.90	247.602	3501.057	0.884	0.9	-13.3	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	5.90	545.943	3287.353	2.076	2.1	4.2	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	5.90	1311.538	3543.938	4.626	4.7	-6.3	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	5.90	2843.137	3262.650	10.893	11.1	10.8	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	5.90	13601.959	3507.401	48.476	49.3	-1.3	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	5.89	26310.078	3365.886	97.709	99.3	-0.7	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	5.89	55801.008	2811.474	248.095	250.8	0.3	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	5.90	107762.492	2699.230	499.043	499.8	-0.0	NO	1.000	NO	bb

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Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998288$

Calibration curve: $6.01615e-005 * x^2 + 1.23933 * x + 0.0755586$

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. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	6.13	688.841	21289.002	0.404	0.3	6.2	NO	0.998	NO	db
2	2 181229M2_3	Standard	0.500	6.13	1122.862	21591.773	0.650	0.5	-7.3	NO	0.998	NO	db
3	3 181229M2_4	Standard	1.000	6.13	2139.218	21868.477	1.223	0.9	-7.4	NO	0.998	NO	MM
4	4 181229M2_5	Standard	2.000	6.13	4306.797	21463.510	2.508	2.0	-1.9	NO	0.998	NO	db
5	5 181229M2_6	Standard	5.000	6.13	10378.861	21392.531	6.065	4.8	-3.4	NO	0.998	NO	bb
6	6 181229M2_7	Standard	10.000	6.13	22467.320	20506.854	13.695	11.0	9.8	NO	0.998	NO	bb
7	7 181229M2_8	Standard	50.000	6.13	105379.227	20979.084	62.788	50.5	1.0	NO	0.998	NO	bb
8	8 181229M2_9	Standard	100.000	6.13	205824.500	19182.238	134.124	107.6	7.6	NO	0.998	NO	bb
9	9 181229M2_10	Standard	250.000	6.13	401274.906	16961.480	295.725	235.9	-5.7	NO	0.998	NO	bb
10	10 181229M2_11	Standard	500.000	6.13	841893.875	16397.900	641.770	505.4	1.1	NO	0.998	NO	bb

Compound name: N-MeFOSA

Coefficient of Determination: $R^2 = 0.999873$

Calibration curve: $-7.67446e-005 * x^2 + 1.06457 * x + -0.290547$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	1.250	6.02	115.547	12621.090	1.373	1.6	25.0	NO	1.000	NO	bbX ✓
2	2 181229M2_3	Standard	2.500	6.02	144.521	12654.397	1.713	1.9	-24.7	NO	1.000	NO	MM
3	3 181229M2_4	Standard	5.000	6.02	473.469	12658.471	5.610	5.5	10.9	NO	1.000	NO	bb
4	4 181229M2_5	Standard	10.000	6.02	842.703	12509.367	10.105	9.8	-2.3	NO	1.000	NO	bb
5	5 181229M2_6	Standard	25.000	6.02	2240.157	12757.665	26.339	25.1	0.2	NO	1.000	NO	MM
6	6 181229M2_7	Standard	50.000	6.02	4568.990	12436.209	55.109	52.2	4.5	NO	1.000	NO	bb
7	7 181229M2_8	Standard	250.000	6.03	22085.996	12513.576	264.744	253.6	1.4	NO	1.000	NO	bb
8	8 181229M2_9	Standard	500.000	6.02	41778.664	12295.774	509.671	496.8	-0.6	NO	1.000	NO	bb
9	9 181229M2_10	Standard	1250.000	6.02	90390.789	11254.236	1204.757	1243.4	-0.5	NO	1.000	NO	bb
10	10 181229M2_11	Standard	2500.000	6.02	179966.609	12357.221	2184.552	2504.5	0.2	NO	1.000	NO	bb

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Compound name: PFTrDA

Coefficient of Determination: R² = 0.999651

Calibration curve: $-0.000168068 * x^2 + 1.36737 * x + -0.0524968$

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. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	6.38	628.611	21289.002	0.369	0.3	23.3	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	6.38	1109.053	21591.773	0.642	0.5	1.6	NO	1.000	NO	MM
3	3 181229M2_4	Standard	1.000	6.38	2157.508	21868.477	1.233	0.9	-6.0	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	6.38	4438.015	21463.510	2.585	1.9	-3.5	NO	1.000	NO	MM
5	5 181229M2_6	Standard	5.000	6.38	10181.512	21392.531	5.949	4.4	-12.2	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	6.38	21913.488	20506.854	13.357	9.8	-1.8	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	6.38	108679.578	20979.084	64.755	47.7	-4.7	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	6.38	213023.844	19182.238	138.816	102.9	2.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	6.37	452052.906	16961.480	333.147	251.4	0.6	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	6.38	839904.875	16397.900	640.253	498.9	-0.2	NO	1.000	NO	bb

Compound name: PFTeDA

Coefficient of Determination: R² = 0.999777

Calibration curve: $-0.000266468 * x^2 + 1.54118 * x + -0.0144695$

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

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

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	6.59	484.958	15258.116	0.397	0.3	6.9	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	6.59	954.472	15397.475	0.775	0.5	2.4	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	6.59	2015.141	15912.354	1.583	1.0	3.7	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	6.59	3561.852	15850.765	2.809	1.8	-8.4	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	6.59	8774.581	15699.008	6.987	4.5	-9.1	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	6.59	19160.564	15327.062	15.626	10.2	1.7	NO	1.000	NO	db
7	7 181229M2_8	Standard	50.000	6.59	92946.547	14824.271	78.374	51.3	2.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	6.58	175031.266	14240.232	153.642	101.5	1.5	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	6.58	378027.719	13028.257	362.700	245.8	-1.7	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	6.59	724313.625	12819.135	706.282	501.8	0.4	NO	1.000	NO	bb

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Compound name: N-EtFOSA

Coefficient of Determination: $R^2 = 0.999877$

Calibration curve: $-5.11801e-005 * x^2 + 0.894711 * x + -0.201133$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	1.250	6.45	127.661	19827.086	0.966	1.3	4.3	NO	1.000	NO	bb
2	2 181229M2_3	Standard	2.500	6.45	273.315	19567.529	2.095	2.6	2.7	NO	1.000	NO	bb
3	3 181229M2_4	Standard	5.000	6.45	547.736	20097.615	4.088	4.8	-4.1	NO	1.000	NO	bb
4	4 181229M2_5	Standard	10.000	6.45	1129.888	19396.691	8.738	10.0	-0.0	NO	1.000	NO	bb
5	5 181229M2_6	Standard	25.000	6.45	2687.954	19452.674	20.727	23.4	-6.3	NO	1.000	NO	bb
6	6 181229M2_7	Standard	50.000	6.45	5771.542	18560.945	46.643	52.5	5.0	NO	1.000	NO	bb
7	7 181229M2_8	Standard	250.000	6.46	27183.637	18805.291	216.830	246.0	-1.6	NO	1.000	NO	bb
8	8 181229M2_9	Standard	500.000	6.45	53261.805	18549.777	430.694	495.7	-0.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	1250.000	6.45	116004.789	16590.273	1048.851	1263.9	1.1	NO	1.000	NO	bb
10	10 181229M2_11	Standard	2500.000	6.45	216242.719	16960.805	1912.433	2493.3	-0.3	NO	1.000	NO	bb

Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999851$

Calibration curve: $-0.000203732 * x^2 + 0.591879 * x + 0.0308005$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	6.90	307.167	8257.102	0.186	0.3	4.9	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	6.90	530.672	7752.461	0.342	0.5	5.3	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	6.90	1087.593	8331.125	0.653	1.1	5.1	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	6.90	1756.336	8182.507	1.073	1.8	-11.9	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	6.90	4611.253	8048.759	2.865	4.8	-4.1	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	6.90	9167.246	7638.526	6.001	10.1	1.2	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	6.90	47917.969	8217.959	29.154	50.1	0.1	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	6.90	89794.445	7983.649	56.236	98.3	-1.7	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	6.89	195961.453	7152.856	136.981	253.5	1.4	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	6.90	366838.844	7505.951	244.365	498.3	-0.3	NO	1.000	NO	bb

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Compound name: PFODA

Coefficient of Determination: $R^2 = 0.999861$
 Calibration curve: $-0.000193725 * x^2 + 0.816848 * x + -0.0115201$
 Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	0.250	7.12	291.174	8257.102	0.176	0.2	-8.0	NO	1.000	NO	bb
2	2 181229M2_3	Standard	0.500	7.12	610.831	7752.461	0.394	0.5	-0.7	NO	1.000	NO	bb
3	3 181229M2_4	Standard	1.000	7.12	1408.195	8331.125	0.845	1.0	4.9	NO	1.000	NO	bb
4	4 181229M2_5	Standard	2.000	7.12	2572.524	8182.507	1.572	1.9	-3.0	NO	1.000	NO	bb
5	5 181229M2_6	Standard	5.000	7.12	6418.727	8048.759	3.987	4.9	-2.0	NO	1.000	NO	bb
6	6 181229M2_7	Standard	10.000	7.12	13097.438	7638.526	8.573	10.5	5.4	NO	1.000	NO	bb
7	7 181229M2_8	Standard	50.000	7.12	65105.164	8217.959	39.612	49.1	-1.8	NO	1.000	NO	bb
8	8 181229M2_9	Standard	100.000	7.12	125625.203	7983.649	78.677	98.6	-1.4	NO	1.000	NO	bb
9	9 181229M2_10	Standard	250.000	7.12	278208.500	7152.856	194.474	253.3	1.3	NO	1.000	NO	bb
10	10 181229M2_11	Standard	500.000	7.12	539030.500	7505.951	359.069	498.5	-0.3	NO	1.000	NO	bb

Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.999889$
 Calibration curve: $2.8345e-006 * x^2 + 0.943779 * x + -0.37283$
 Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
 Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	1.250	6.68	67.243	10575.484	0.954	1.4	12.4	NO	1.000	NO	bb
2	2 181229M2_3	Standard	2.500	6.68	118.019	10029.321	1.765	2.3	-9.4	NO	1.000	NO	MM
3	3 181229M2_4	Standard	5.000	6.68	327.337	10565.968	4.647	5.3	6.4	NO	1.000	NO	bb
4	4 181229M2_5	Standard	10.000	6.68	594.291	10135.638	8.795	9.7	-2.9	NO	1.000	NO	MM
5	5 181229M2_6	Standard	25.000	6.68	1461.235	10549.587	20.777	22.4	-10.4	NO	1.000	NO	MM
6	6 181229M2_7	Standard	50.000	6.68	3246.759	9960.941	48.892	52.2	4.4	NO	1.000	NO	bb
7	7 181229M2_8	Standard	250.000	6.68	16031.422	10341.105	232.539	246.6	-1.4	NO	1.000	NO	bb
8	8 181229M2_9	Standard	500.000	6.67	32276.600	10181.245	475.530	503.5	0.7	NO	1.000	NO	bb
9	9 181229M2_10	Standard	1250.000	6.67	73719.273	9330.401	1185.146	1251.4	0.1	NO	1.000	NO	bb
10	10 181229M2_11	Standard	2500.000	6.68	165604.453	10455.917	2375.752	2498.9	-0.0	NO	1.000	NO	bb

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Compound name: N-EtFOSE

Coefficient of Determination: R² = 0.999680

Calibration curve: $-8.56872e-006 * x^2 + 1.1842 * x + -0.30516$

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

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

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	1.250	6.83	101.250	10246.797	1.482	1.5	20.7	NO	1.000	NO	bb
2	2 181229M2_3	Standard	2.500	6.83	170.543	10151.709	2.520	2.4	-4.6	NO	1.000	NO	bb
3	3 181229M2_4	Standard	5.000	6.83	395.507	10494.368	5.653	5.0	0.6	NO	1.000	NO	bb
4	4 181229M2_5	Standard	10.000	6.83	727.766	10125.364	10.781	9.4	-6.4	NO	1.000	NO	bb
5	5 181229M2_6	Standard	25.000	6.83	1807.432	10073.060	26.915	23.0	-8.0	NO	1.000	NO	bb
6	6 181229M2_7	Standard	50.000	6.83	3746.700	9551.333	58.840	50.0	-0.1	NO	1.000	NO	bb
7	7 181229M2_8	Standard	250.000	6.83	18977.588	9877.409	288.197	244.1	-2.4	NO	1.000	NO	bb
8	8 181229M2_9	Standard	500.000	6.82	37985.535	9851.597	578.366	490.4	-1.9	NO	1.000	NO	bb
9	9 181229M2_10	Standard	1250.000	6.83	93419.102	9322.468	1503.128	1281.5	2.5	NO	1.000	NO	bb
10	10 181229M2_11	Standard	2500.000	6.83	194226.641	10076.250	2891.353	2486.6	-0.5	NO	1.000	NO	bb

Compound name: 13C3-PFBA

Response Factor: 0.727158

RRF SD: 0.010805, Relative SD: 1.48593

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

Curve type: RF

	# Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	12.500	1.45	7620.689	10490.901	9.080	12.5	-0.1	NO		NO	MM
2	2 181229M2_3	Standard	12.500	1.45	7049.431	9790.347	9.000	12.4	-1.0	NO		NO	MM
3	3 181229M2_4	Standard	12.500	1.45	7239.648	10031.507	9.021	12.4	-0.8	NO		NO	MM
4	4 181229M2_5	Standard	12.500	1.45	7235.906	10190.665	8.876	12.2	-2.4	NO		NO	MM
5	5 181229M2_6	Standard	12.500	1.45	7504.841	10414.141	9.008	12.4	-0.9	NO		NO	MM
6	6 181229M2_7	Standard	12.500	1.45	7624.636	10251.719	9.297	12.8	2.3	NO		NO	MM
7	7 181229M2_8	Standard	12.500	1.45	7693.703	10420.172	9.229	12.7	1.5	NO		NO	MM
8	8 181229M2_9	Standard	12.500	1.45	7436.254	10210.263	9.104	12.5	0.2	NO		NO	MM
9	9 181229M2_10	Standard	12.500	1.45	6934.977	9616.428	9.014	12.4	-0.8	NO		NO	MM
10	10 181229M2_11	Standard	12.500	1.45	6550.611	8837.932	9.265	12.7	1.9	NO		NO	MM

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Compound name: 13C3-PFPeA

Response Factor: 0.510898

RRF SD: 0.0146166, Relative SD: 2.86097 ✓

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 181229M2_2	Standard	12.500	2.71	10395.385	20688.014	6.281	12.3	-1.6	NO		NO	bb
2	2 181229M2_3	Standard	12.500	2.71	10287.158	20363.910	6.315	12.4	-1.1	NO		NO	bb
3	3 181229M2_4	Standard	12.500	2.71	10481.588	20927.277	6.261	12.3	-2.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	2.71	10216.553	19880.570	6.424	12.6	0.6	NO		NO	bb
5	5 181229M2_6	Standard	12.500	2.71	10204.046	20331.012	6.274	12.3	-1.8	NO		NO	bb
6	6 181229M2_7	Standard	12.500	2.71	9618.445	19072.498	6.304	12.3	-1.3	NO		NO	bb
7	7 181229M2_8	Standard	12.500	2.70	9993.211	19563.260	6.385	12.5	-0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	2.71	9627.538	19408.055	6.201	12.1	-2.9	NO		NO	bb
9	9 181229M2_10	Standard	12.500	2.71	8516.557	15978.792	6.662	13.0	4.3	NO		NO	bb
10	10 181229M2_11	Standard	12.500	2.71	8859.089	16390.385	6.756	13.2	5.8	NO		NO	bb

Compound name: 13C3-PFBS

Response Factor: 0.497461

RRF SD: 0.0141996, Relative SD: 2.85441 ✓

Response type: Internal Std (Ref 62), 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 181229M2_2	Standard	12.500	3.03	1527.155	3158.170	6.044	12.2	-2.8	NO		NO	bb
2	2 181229M2_3	Standard	12.500	3.03	1540.521	3041.456	6.331	12.7	1.8	NO		NO	bb
3	3 181229M2_4	Standard	12.500	3.03	1562.691	3168.282	6.165	12.4	-0.9	NO		NO	bb
4	4 181229M2_5	Standard	12.500	3.03	1488.365	3120.733	5.962	12.0	-4.1	NO		NO	bb
5	5 181229M2_6	Standard	12.500	3.03	1551.050	3065.540	6.325	12.7	1.7	NO		NO	bb
6	6 181229M2_7	Standard	12.500	3.03	1471.292	2827.255	6.505	13.1	4.6	NO		NO	bb
7	7 181229M2_8	Standard	12.500	3.03	1462.293	2859.046	6.393	12.9	2.8	NO		NO	bb
8	8 181229M2_9	Standard	12.500	3.03	1405.650	2824.194	6.221	12.5	0.1	NO		NO	bb
9	9 181229M2_10	Standard	12.500	3.03	1139.932	2374.699	6.000	12.1	-3.5	NO		NO	bb
10	10 181229M2_11	Standard	12.500	3.03	1141.903	2289.244	6.235	12.5	0.3	NO		NO	bb

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Compound name: 13C2-4:2 FTS

Response Factor: 1.31089

RRF SD: 0.102573, Relative SD: 7.82468

Response type: Internal Std (Ref 62), 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 181229M2_2	Standard	12.500	3.50	4144.418	3158.170	16.404	12.5	0.1	NO		NO	bb
2	2 181229M2_3	Standard	12.500	3.50	3846.208	3041.456	15.807	12.1	-3.5	NO		NO	bb
3	3 181229M2_4	Standard	12.500	3.50	3826.278	3168.282	15.096	11.5	-7.9	NO		NO	bb
4	4 181229M2_5	Standard	12.500	3.50	3745.440	3120.733	15.002	11.4	-8.4	NO		NO	bb
5	5 181229M2_6	Standard	12.500	3.50	3896.034	3065.540	15.886	12.1	-3.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	3.50	3747.443	2827.255	16.568	12.6	1.1	NO		NO	bb
7	7 181229M2_8	Standard	12.500	3.50	3992.553	2859.046	17.456	13.3	6.5	NO		NO	bb
8	8 181229M2_9	Standard	12.500	3.50	4263.229	2824.194	18.869	14.4	15.2	NO		NO	bb
9	9 181229M2_10	Standard	12.500	3.50	5230.245	2374.699	27.531	21.0	68.0	NO		NO	bbX
10	10 181229M2_11	Standard	12.500	3.50	6853.290	2289.244	37.421	28.5	128.4	NO		NO	bbX

Compound name: 13C2-PFHxA

Response Factor: 0.947375

RRF SD: 0.0351014, Relative SD: 3.70512

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 181229M2_2	Standard	5.000	3.59	7600.956	20688.014	4.593	4.8	-3.0	NO		NO	bb
2	2 181229M2_3	Standard	5.000	3.59	7650.732	20363.910	4.696	5.0	-0.9	NO		NO	bb
3	3 181229M2_4	Standard	5.000	3.59	7756.406	20927.277	4.633	4.9	-2.2	NO		NO	bb
4	4 181229M2_5	Standard	5.000	3.59	7374.592	19880.570	4.637	4.9	-2.1	NO		NO	bb
5	5 181229M2_6	Standard	5.000	3.59	7533.261	20331.012	4.632	4.9	-2.2	NO		NO	bb
6	6 181229M2_7	Standard	5.000	3.59	7328.587	19072.498	4.803	5.1	1.4	NO		NO	bb
7	7 181229M2_8	Standard	5.000	3.59	7336.411	19563.260	4.688	4.9	-1.0	NO		NO	bb
8	8 181229M2_9	Standard	5.000	3.59	7181.619	19408.055	4.625	4.9	-2.4	NO		NO	bb
9	9 181229M2_10	Standard	5.000	3.59	6273.787	15978.792	4.908	5.2	3.6	NO		NO	bb
10	10 181229M2_11	Standard	5.000	3.59	6758.698	16390.385	5.154	5.4	8.8	NO		NO	bb

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Compound name: 13C4-PFHpA

Response Factor: 0.483946

RRF SD: 0.0112027, Relative SD: 2.31488

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 181229M2_2	Standard	12.500	4.22	10070.699	20688.014	6.085	12.6	0.6	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.23	9782.876	20363.910	6.005	12.4	-0.7	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.23	10384.069	20927.277	6.202	12.8	2.5	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.22	9814.389	19880.570	6.171	12.8	2.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.23	9885.493	20331.012	6.078	12.6	0.5	NO		NO	bb
6	6 181229M2_7	Standard	12.500	4.23	9237.949	19072.498	6.054	12.5	0.1	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.23	9592.961	19563.260	6.129	12.7	1.3	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.23	9054.301	19408.055	5.832	12.0	-3.6	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.23	7863.701	15978.792	6.152	12.7	1.7	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.23	7585.454	16390.385	5.785	12.0	-4.4	NO		NO	bb

Compound name: 18O2-PFHxS

Response Factor: 0.413712

RRF SD: 0.0178468, Relative SD: 4.31381

Response type: Internal Std (Ref 62), 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 181229M2_2	Standard	12.500	4.36	1262.780	3158.170	4.998	12.1	-3.4	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.36	1244.552	3041.456	5.115	12.4	-1.1	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.36	1298.589	3168.282	5.123	12.4	-0.9	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.36	1178.653	3120.733	4.721	11.4	-8.7	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.36	1276.862	3065.540	5.207	12.6	0.7	NO		NO	bb
6	6 181229M2_7	Standard	12.500	4.36	1261.164	2827.255	5.576	13.5	7.8	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.36	1181.315	2859.046	5.165	12.5	-0.1	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.36	1181.546	2824.194	5.230	12.6	1.1	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.36	989.524	2374.699	5.209	12.6	0.7	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.36	983.657	2289.244	5.371	13.0	3.9	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

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Compound name: 13C2-6:2 FTS

Response Factor: 0.92042

RRF SD: 0.0511038, Relative SD: 5.55222

Response type: Internal Std (Ref 65), 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 181229M2_2	Standard	12.500	4.66	3345.705	3491.388	11.978	13.0	4.1	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.66	3256.189	3380.016	12.042	13.1	4.7	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.66	3306.510	3457.015	11.956	13.0	3.9	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.66	3145.370	3417.326	11.505	12.5	-0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.67	3174.227	3242.304	12.238	13.3	6.4	NO		NO	bd
6	6 181229M2_7	Standard	12.500	4.67	3058.315	3193.801	11.970	13.0	4.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.67	2978.305	3318.294	11.219	12.2	-2.5	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.66	2654.524	3018.229	10.994	11.9	-4.4	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.66	2271.882	2621.531	10.833	11.8	-5.8	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.67	2232.428	2704.564	10.318	11.2	-10.3	NO		NO	bb

Compound name: 13C2-PFOA

Response Factor: 0.677997

RRF SD: 0.0164355, Relative SD: 2.42413

Response type: Internal Std (Ref 63), 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 181229M2_2	Standard	12.500	4.72	17667.383	26665.990	8.282	12.2	-2.3	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.72	17206.539	25429.641	8.458	12.5	-0.2	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.72	17826.404	26331.666	8.462	12.5	-0.1	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.72	17016.633	25847.029	8.229	12.1	-2.9	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.72	17100.818	25454.846	8.398	12.4	-0.9	NO		NO	bb
6	6 181229M2_7	Standard	12.500	4.72	16373.734	24351.611	8.405	12.4	-0.8	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.72	16492.891	24417.469	8.443	12.5	-0.4	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.72	16256.074	24192.965	8.399	12.4	-0.9	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.72	14141.070	19920.900	8.873	13.1	4.7	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.72	13737.383	19513.654	8.800	13.0	3.8	NO		NO	bb

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Compound name: 13C5-PFNA

Response Factor: 0.948865

RRF SD: 0.0192552, Relative SD: 2.02929

Response type: Internal Std (Ref 64), 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	181229M2_2	Standard	12.500	5.15	17629.832	19040.746	11.574	12.2	-2.4	NO		NO	bb
2	181229M2_3	Standard	12.500	5.15	17409.248	18485.146	11.772	12.4	-0.7	NO		NO	bb
3	181229M2_4	Standard	12.500	5.15	18135.689	18466.064	12.276	12.9	3.5	NO		NO	bb
4	181229M2_5	Standard	12.500	5.15	17345.088	18024.973	12.029	12.7	1.4	NO		NO	bb
5	181229M2_6	Standard	12.500	5.16	17095.766	18631.014	11.470	12.1	-3.3	NO		NO	bb
6	181229M2_7	Standard	12.500	5.15	16737.436	17413.998	12.014	12.7	1.3	NO		NO	bb
7	181229M2_8	Standard	12.500	5.16	16546.188	17644.561	11.722	12.4	-1.2	NO		NO	bb
8	181229M2_9	Standard	12.500	5.15	16046.554	16690.217	12.018	12.7	1.3	NO		NO	bb
9	181229M2_10	Standard	12.500	5.15	13695.215	14512.769	11.796	12.4	-0.5	NO		NO	bb
10	181229M2_11	Standard	12.500	5.15	12791.653	13394.848	11.937	12.6	0.6	NO		NO	bb

Compound name: 13C8-PFOSA

Response Factor: 0.189857

RRF SD: 0.00882042, Relative SD: 4.64581

Response type: Internal Std (Ref 67), 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	181229M2_2	Standard	12.500	5.19	4615.137	24031.391	2.401	12.6	1.2	NO		NO	bb
2	181229M2_3	Standard	12.500	5.19	4368.309	23929.412	2.282	12.0	-3.8	NO		NO	bb
3	181229M2_4	Standard	12.500	5.19	4449.304	23793.148	2.337	12.3	-1.5	NO		NO	bb
4	181229M2_5	Standard	12.500	5.19	4170.515	23467.891	2.221	11.7	-6.4	NO		NO	bb
5	181229M2_6	Standard	12.500	5.19	4506.877	23787.354	2.368	12.5	-0.2	NO		NO	bb
6	181229M2_7	Standard	12.500	5.19	4195.290	22139.613	2.369	12.5	-0.2	NO		NO	bb
7	181229M2_8	Standard	12.500	5.19	4198.639	22484.193	2.334	12.3	-1.6	NO		NO	bb
8	181229M2_9	Standard	12.500	5.19	3996.380	21697.707	2.302	12.1	-3.0	NO		NO	bb
9	181229M2_10	Standard	12.500	5.19	3741.253	18154.252	2.576	13.6	8.5	NO		NO	bb
10	181229M2_11	Standard	12.500	5.19	3408.612	16765.828	2.541	13.4	7.1	NO		NO	bb

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Compound name: 13C8-PFOS

Response Factor: 1.0376

RRF SD: 0.0544238, Relative SD: 5.24519

Response type: Internal Std (Ref 65), 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 181229M2_2	Standard	12.500	5.23	3779.517	3491.388	13.532	13.0	4.3	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.23	3249.811	3380.016	12.018	11.6	-7.3	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.24	3501.057	3457.015	12.659	12.2	-2.4	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.24	3287.353	3417.326	12.025	11.6	-7.3	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.24	3543.938	3242.304	13.663	13.2	5.3	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.24	3262.650	3193.801	12.769	12.3	-1.5	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.24	3507.401	3318.294	13.212	12.7	1.9	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.23	3365.886	3018.229	13.940	13.4	7.5	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.23	2811.474	2621.531	13.406	12.9	3.4	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.24	2699.230	2704.564	12.475	12.0	-3.8	NO		NO	bb

Compound name: 13C2-PFDA

Response Factor: 0.9368

RRF SD: 0.0397106, Relative SD: 4.23897

Response type: Internal Std (Ref 66), 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 181229M2_2	Standard	12.500	5.53	18333.279	20001.045	11.458	12.2	-2.2	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.52	17810.100	19894.260	11.190	11.9	-4.4	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.53	18748.252	20526.646	11.417	12.2	-2.5	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.53	17760.555	19587.316	11.334	12.1	-3.2	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.53	18609.666	20167.748	11.534	12.3	-1.5	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.53	17647.195	19285.479	11.438	12.2	-2.3	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.53	18481.264	19207.580	12.027	12.8	2.7	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.52	17766.760	18184.455	12.213	13.0	4.3	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.52	14900.956	15942.367	11.683	12.5	-0.2	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.53	15066.822	14708.543	12.804	13.7	9.3	NO		NO	bb

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Compound name: 13C2-8:2 FTS

Response Factor: 1.10974

RRF SD: 0.13258, Relative SD: 11.9469

Response type: Internal Std (Ref 65), 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 181229M2_2	Standard	12.500	5.50	3570.586	3491.388	12.784	11.5	-7.8	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.50	3638.608	3380.016	13.456	12.1	-3.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.50	3552.131	3457.015	12.844	11.6	-7.4	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.50	3342.833	3417.326	12.228	11.0	-11.9	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.50	3512.961	3242.304	13.543	12.2	-2.4	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.50	3485.349	3193.801	13.641	12.3	-1.7	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.50	4000.156	3318.294	15.069	13.6	8.6	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.50	4203.653	3018.229	17.409	15.7	25.5	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.50	5004.237	2621.531	23.861	21.5	72.0	NO		NO	bbX
10	10 181229M2_11	Standard	12.500	5.50	6849.592	2704.564	31.658	28.5	128.2	NO		NO	bbX

Compound name: d3-N-MeFOSAA

Response Factor: 0.160686

RRF SD: 0.00994891, Relative SD: 6.19154

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	12.500	5.67	3621.049	24031.391	1.883	11.7	-6.2	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.67	3912.279	23929.412	2.044	12.7	1.7	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.67	3760.537	23793.148	1.976	12.3	-1.6	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.67	3712.569	23467.891	1.977	12.3	-1.5	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.67	3627.725	23787.354	1.906	11.9	-5.1	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.67	3573.399	22139.613	2.018	12.6	0.4	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.67	3327.247	22484.193	1.850	11.5	-7.9	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.67	3622.540	21697.707	2.087	13.0	3.9	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.67	2993.784	18154.252	2.061	12.8	2.6	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.67	3062.787	16765.828	2.284	14.2	13.7	NO		NO	bb

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Compound name: 13C2-PFUdA

Response Factor: 1.02173

RRF SD: 0.0320776, Relative SD: 3.13954

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	12.500	5.85	23739.340	24031.391	12.348	12.1	-3.3	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.85	23214.604	23929.412	12.127	11.9	-5.1	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.85	24451.715	23793.148	12.846	12.6	0.6	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.85	23883.965	23467.891	12.722	12.5	-0.4	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.85	24185.852	23787.354	12.709	12.4	-0.5	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.85	23192.795	22139.613	13.095	12.8	2.5	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.85	23517.455	22484.193	13.074	12.8	2.4	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.85	21556.801	21697.707	12.419	12.2	-2.8	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.85	18727.865	18154.252	12.895	12.6	1.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.85	18082.311	16765.828	13.482	13.2	5.6	NO		NO	MM

Compound name: d5-N-EtFOSAA

Response Factor: 0.2229

RRF SD: 0.00679929, Relative SD: 3.05037

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	12.500	5.83	5344.063	24031.391	2.780	12.5	-0.2	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.83	5244.018	23929.412	2.739	12.3	-1.7	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.83	5483.333	23793.148	2.881	12.9	3.4	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.83	5300.130	23467.891	2.823	12.7	1.3	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.83	5271.415	23787.354	2.770	12.4	-0.6	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.83	5126.773	22139.613	2.895	13.0	3.9	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.83	4788.107	22484.193	2.662	11.9	-4.5	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.83	4589.522	21697.707	2.644	11.9	-5.1	NO		NO	MM
9	9 181229M2_10	Standard	12.500	5.82	4104.808	18154.252	2.826	12.7	1.4	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.83	3812.908	16765.828	2.843	12.8	2.0	NO		NO	bb

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Compound name: 13C2-PFDoA

Response Factor: 1.07608

RRF SD: 0.0196785, Relative SD: 1.82872

Response type: Internal Std (Ref 66), 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 181229M2_2	Standard	12.500	6.14	21289.002	20001.045	13.305	12.4	-1.1	NO		NO	bb
2	2 181229M2_3	Standard	12.500	6.13	21591.773	19894.260	13.567	12.6	0.9	NO		NO	bb
3	3 181229M2_4	Standard	12.500	6.14	21868.477	20526.646	13.317	12.4	-1.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	6.14	21463.510	19587.316	13.697	12.7	1.8	NO		NO	bb
5	5 181229M2_6	Standard	12.500	6.14	21392.531	20167.748	13.259	12.3	-1.4	NO		NO	bb
6	6 181229M2_7	Standard	12.500	6.14	20506.854	19285.479	13.292	12.4	-1.2	NO		NO	bb
7	7 181229M2_8	Standard	12.500	6.14	20979.084	19207.580	13.653	12.7	1.5	NO		NO	bb
8	8 181229M2_9	Standard	12.500	6.13	19182.238	18184.455	13.186	12.3	-2.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	6.13	16961.480	15942.367	13.299	12.4	-1.1	NO		NO	bb
10	10 181229M2_11	Standard	12.500	6.14	16397.900	14708.543	13.936	13.0	3.6	NO		NO	bb

Compound name: d3-N-MeFOSA

Response Factor: 0.0474777

RRF SD: 0.00543643, Relative SD: 11.4505

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	150.000	6.05	12621.090	24031.391	6.565	138.3	-7.8	NO		NO	bb
2	2 181229M2_3	Standard	150.000	6.05	12654.397	23929.412	6.610	139.2	-7.2	NO		NO	bb
3	3 181229M2_4	Standard	150.000	6.05	12658.471	23793.148	6.650	140.1	-6.6	NO		NO	bb
4	4 181229M2_5	Standard	150.000	6.05	12509.367	23467.891	6.663	140.3	-6.4	NO		NO	bb
5	5 181229M2_6	Standard	150.000	6.05	12757.665	23787.354	6.704	141.2	-5.9	NO		NO	bb
6	6 181229M2_7	Standard	150.000	6.05	12436.209	22139.613	7.021	147.9	-1.4	NO		NO	bb
7	7 181229M2_8	Standard	150.000	6.05	12513.576	22484.193	6.957	146.5	-2.3	NO		NO	bb
8	8 181229M2_9	Standard	150.000	6.05	12295.774	21697.707	7.084	149.2	-0.5	NO		NO	bb
9	9 181229M2_10	Standard	150.000	6.04	11254.236	18154.252	7.749	163.2	8.8	NO		NO	bb
10	10 181229M2_11	Standard	150.000	6.05	12357.221	16765.828	9.213	194.1	29.4	NO		NO	bb

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Compound name: 13C2-PFTeDA

Response Factor: 0.677271

RRF SD: 0.0388089, Relative SD: 5.73019

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	12.500	6.59	15258.116	24031.391	7.937	11.7	-6.3	NO		NO	bb
2	2 181229M2_3	Standard	12.500	6.59	15397.475	23929.412	8.043	11.9	-5.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	6.59	15912.354	23793.148	8.360	12.3	-1.3	NO		NO	bb
4	4 181229M2_5	Standard	12.500	6.59	15850.765	23467.891	8.443	12.5	-0.3	NO		NO	bb
5	5 181229M2_6	Standard	12.500	6.59	15699.008	23787.354	8.250	12.2	-2.6	NO		NO	bb
6	6 181229M2_7	Standard	12.500	6.59	15327.062	22139.613	8.654	12.8	2.2	NO		NO	bb
7	7 181229M2_8	Standard	12.500	6.59	14824.271	22484.193	8.241	12.2	-2.7	NO		NO	bb
8	8 181229M2_9	Standard	12.500	6.59	14240.232	21697.707	8.204	12.1	-3.1	NO		NO	bb
9	9 181229M2_10	Standard	12.500	6.58	13028.257	18154.252	8.971	13.2	6.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	6.59	12819.135	16765.828	9.557	14.1	12.9	NO		NO	bb

Compound name: d5-N-ETFOSA

Response Factor: 0.0715573

RRF SD: 0.00505175, Relative SD: 7.05972

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	150.000	6.47	19827.086	24031.391	10.313	144.1	-3.9	NO		NO	bb
2	2 181229M2_3	Standard	150.000	6.47	19567.529	23929.412	10.221	142.8	-4.8	NO		NO	bb
3	3 181229M2_4	Standard	150.000	6.47	20097.615	23793.148	10.559	147.6	-1.6	NO		NO	bb
4	4 181229M2_5	Standard	150.000	6.47	19396.691	23467.891	10.332	144.4	-3.7	NO		NO	bb
5	5 181229M2_6	Standard	150.000	6.47	19452.674	23787.354	10.222	142.9	-4.8	NO		NO	bb
6	6 181229M2_7	Standard	150.000	6.47	18560.945	22139.613	10.479	146.4	-2.4	NO		NO	bb
7	7 181229M2_8	Standard	150.000	6.47	18805.291	22484.193	10.455	146.1	-2.6	NO		NO	bb
8	8 181229M2_9	Standard	150.000	6.47	18549.777	21697.707	10.686	149.3	-0.4	NO		NO	bb
9	9 181229M2_10	Standard	150.000	6.47	16590.273	18154.252	11.423	159.6	6.4	NO		NO	bb
10	10 181229M2_11	Standard	150.000	6.47	16960.805	16765.828	12.645	176.7	17.8	NO		NO	bb

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Compound name: 13C2-PFHxDA

Response Factor: 0.906228

RRF SD: 0.0888313, Relative SD: 9.80232

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	5.000	6.90	8257.102	24031.391	4.295	4.7	-5.2	NO		NO	bb
2	2 181229M2_3	Standard	5.000	6.89	7752.461	23929.412	4.050	4.5	-10.6	NO		NO	bb
3	3 181229M2_4	Standard	5.000	6.90	8331.125	23793.148	4.377	4.8	-3.4	NO		NO	bb
4	4 181229M2_5	Standard	5.000	6.90	8182.507	23467.891	4.358	4.8	-3.8	NO		NO	bb
5	5 181229M2_6	Standard	5.000	6.89	8048.759	23787.354	4.230	4.7	-6.7	NO		NO	bb
6	6 181229M2_7	Standard	5.000	6.90	7638.526	22139.613	4.313	4.8	-4.8	NO		NO	bb
7	7 181229M2_8	Standard	5.000	6.90	8217.959	22484.193	4.569	5.0	0.8	NO		NO	bb
8	8 181229M2_9	Standard	5.000	6.90	7983.649	21697.707	4.599	5.1	1.5	NO		NO	bb
9	9 181229M2_10	Standard	5.000	6.89	7152.856	18154.252	4.925	5.4	8.7	NO		NO	bb
10	10 181229M2_11	Standard	5.000	6.90	7505.951	16765.828	5.596	6.2	23.5	NO		NO	bb

Compound name: d7-N-MeFOSE

Response Factor: 0.0391277

RRF SD: 0.00499635, Relative SD: 12.7693

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	150.000	6.67	10575.484	24031.391	5.501	140.6	-6.3	NO		NO	bb
2	2 181229M2_3	Standard	150.000	6.67	10029.321	23929.412	5.239	133.9	-10.7	NO		NO	bb
3	3 181229M2_4	Standard	150.000	6.67	10565.968	23793.148	5.551	141.9	-5.4	NO		NO	bb
4	4 181229M2_5	Standard	150.000	6.67	10135.638	23467.891	5.399	138.0	-8.0	NO		NO	bb
5	5 181229M2_6	Standard	150.000	6.67	10549.587	23787.354	5.544	141.7	-5.5	NO		NO	bb
6	6 181229M2_7	Standard	150.000	6.67	9960.941	22139.613	5.624	143.7	-4.2	NO		NO	bb
7	7 181229M2_8	Standard	150.000	6.67	10341.105	22484.193	5.749	146.9	-2.0	NO		NO	bb
8	8 181229M2_9	Standard	150.000	6.67	10181.245	21697.707	5.865	149.9	-0.1	NO		NO	bb
9	9 181229M2_10	Standard	150.000	6.67	9330.401	18154.252	6.424	164.2	9.5	NO		NO	bb
10	10 181229M2_11	Standard	150.000	6.67	10455.917	16765.828	7.796	199.2	32.8	NO		NO	bb

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Compound name: d9-N-EtFOSE

Response Factor: 0.0382157

RRF SD: 0.00472405, Relative SD: 12.3616

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	150.000	6.82	10246.797	24031.391	5.330	139.5	-7.0	NO		NO	bb
2	2 181229M2_3	Standard	150.000	6.82	10151.709	23929.412	5.303	138.8	-7.5	NO		NO	bb
3	3 181229M2_4	Standard	150.000	6.82	10494.368	23793.148	5.513	144.3	-3.8	NO		NO	bb
4	4 181229M2_5	Standard	150.000	6.82	10125.364	23467.891	5.393	141.1	-5.9	NO		NO	bb
5	5 181229M2_6	Standard	150.000	6.82	10073.060	23787.354	5.293	138.5	-7.7	NO		NO	bb
6	6 181229M2_7	Standard	150.000	6.82	9551.333	22139.613	5.393	141.1	-5.9	NO		NO	bb
7	7 181229M2_8	Standard	150.000	6.82	9877.409	22484.193	5.491	143.7	-4.2	NO		NO	bb
8	8 181229M2_9	Standard	150.000	6.81	9851.597	21697.707	5.675	148.5	-1.0	NO		NO	bb
9	9 181229M2_10	Standard	150.000	6.82	9322.468	18154.252	6.419	168.0	12.0	NO		NO	bb
10	10 181229M2_11	Standard	150.000	6.82	10076.250	16765.828	7.512	196.6	31.1	NO		NO	bb

Compound name: 13C4-PFBA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	12.500	1.45	10490.901	10490.901	12.500	12.5	0.0	NO		NO	MM
2	2 181229M2_3	Standard	12.500	1.45	9790.347	9790.347	12.500	12.5	0.0	NO		NO	MM
3	3 181229M2_4	Standard	12.500	1.45	10031.507	10031.507	12.500	12.5	0.0	NO		NO	MM
4	4 181229M2_5	Standard	12.500	1.45	10190.665	10190.665	12.500	12.5	0.0	NO		NO	MM
5	5 181229M2_6	Standard	12.500	1.45	10414.141	10414.141	12.500	12.5	0.0	NO		NO	MM
6	6 181229M2_7	Standard	12.500	1.45	10251.719	10251.719	12.500	12.5	0.0	NO		NO	MM
7	7 181229M2_8	Standard	12.500	1.45	10420.172	10420.172	12.500	12.5	0.0	NO		NO	MM
8	8 181229M2_9	Standard	12.500	1.45	10210.263	10210.263	12.500	12.5	0.0	NO		NO	MM
9	9 181229M2_10	Standard	12.500	1.45	9616.428	9616.428	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	1.45	8837.932	8837.932	12.500	12.5	0.0	NO		NO	MM

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Compound name: 13C5-PFHxA

Response Factor: 1

RRF SD: 0, Relative SD: 0

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

Curve type: RF

#	Name	Type	Std. Conc	RT	Area	IS Area	Response	Conc.	%Dev	Conc. Flag	CoD	CoD Flag	x=excluded
1	1 181229M2_2	Standard	12.500	3.59	20688.014	20688.014	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	3.59	20363.910	20363.910	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	3.59	20927.277	20927.277	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	3.59	19880.570	19880.570	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	3.59	20331.012	20331.012	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	3.59	19072.498	19072.498	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	3.59	19563.260	19563.260	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	3.59	19408.055	19408.055	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	3.59	15978.792	15978.792	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	3.59	16390.385	16390.385	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C3-PFHxS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 62), 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 181229M2_2	Standard	12.500	4.36	3158.170	3158.170	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.36	3041.456	3041.456	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.36	3168.282	3168.282	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.36	3120.733	3120.733	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.36	3065.540	3065.540	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	4.36	2827.255	2827.255	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.36	2859.046	2859.046	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.36	2824.194	2824.194	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.36	2374.699	2374.699	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.36	2289.244	2289.244	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C8-PFOA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 63), 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 181229M2_2	Standard	12.500	4.72	26665.990	26665.990	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	4.72	25429.641	25429.641	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	4.72	26331.666	26331.666	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	4.72	25847.029	25847.029	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	4.72	25454.846	25454.846	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	4.72	24351.611	24351.611	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	4.72	24417.469	24417.469	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	4.72	24192.965	24192.965	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	4.72	19920.900	19920.900	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	4.72	19513.654	19513.654	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C9-PFNA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 64), 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 181229M2_2	Standard	12.500	5.15	19040.746	19040.746	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.15	18485.146	18485.146	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.15	18466.064	18466.064	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.15	18024.973	18024.973	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.16	18631.014	18631.014	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.15	17413.998	17413.998	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.16	17644.561	17644.561	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.15	16690.217	16690.217	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.15	14512.769	14512.769	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.15	13394.848	13394.848	12.500	12.5	0.0	NO		NO	bb

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Compound name: 13C4-PFOS

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 65), 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 181229M2_2	Standard	12.500	5.23	3491.388	3491.388	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.23	3380.016	3380.016	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.24	3457.015	3457.015	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.24	3417.326	3417.326	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.24	3242.304	3242.304	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.24	3193.801	3193.801	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.24	3318.294	3318.294	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.23	3018.229	3018.229	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.23	2621.531	2621.531	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.24	2704.564	2704.564	12.500	12.5	0.0	NO		NO	bb

Compound name: 13C6-PFDA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 66), 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 181229M2_2	Standard	12.500	5.52	20001.045	20001.045	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.52	19894.260	19894.260	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.53	20526.646	20526.646	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.53	19587.316	19587.316	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.53	20167.748	20167.748	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.53	19285.479	19285.479	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.53	19207.580	19207.580	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.53	18184.455	18184.455	12.500	12.5	0.0	NO		NO	MM
9	9 181229M2_10	Standard	12.500	5.52	15942.367	15942.367	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.53	14708.543	14708.543	12.500	12.5	0.0	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:17:32 Pacific Standard Time

Compound name: 13C7-PFUdA

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 67), 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 181229M2_2	Standard	12.500	5.85	24031.391	24031.391	12.500	12.5	0.0	NO		NO	bb
2	2 181229M2_3	Standard	12.500	5.85	23929.412	23929.412	12.500	12.5	0.0	NO		NO	bb
3	3 181229M2_4	Standard	12.500	5.85	23793.148	23793.148	12.500	12.5	0.0	NO		NO	bb
4	4 181229M2_5	Standard	12.500	5.85	23467.891	23467.891	12.500	12.5	0.0	NO		NO	bb
5	5 181229M2_6	Standard	12.500	5.85	23787.354	23787.354	12.500	12.5	0.0	NO		NO	bb
6	6 181229M2_7	Standard	12.500	5.85	22139.613	22139.613	12.500	12.5	0.0	NO		NO	bb
7	7 181229M2_8	Standard	12.500	5.85	22484.193	22484.193	12.500	12.5	0.0	NO		NO	bb
8	8 181229M2_9	Standard	12.500	5.85	21697.707	21697.707	12.500	12.5	0.0	NO		NO	bb
9	9 181229M2_10	Standard	12.500	5.85	18154.252	18154.252	12.500	12.5	0.0	NO		NO	bb
10	10 181229M2_11	Standard	12.500	5.85	16765.828	16765.828	12.500	12.5	0.0	NO		NO	bb

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:18:57 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Name: 181229M2_2, Date: 29-Dec-2018, Time: 13:24:43, ID: ST181229M2-1 PFC CS-2 18L2601, Description: PFC CS-2 18L2601

	# Name	IS#	CoD	CoD Flag	%RSD
1	1 PFBA	36	0.9999	NO	
2	2 PFPeA	37	0.9999	NO	
3	3 PFBS	38	0.9997	NO	
4	4 4:2 FTS	39	0.9998	NO	
5	5 PFHxA	40	0.9999	NO	
6	6 PFPeS	38	0.9994	NO	
7	7 PFHpA	41	0.9999	NO	
8	8 L-PFHxS	42	0.9997	NO	
9	10 6:2 FTS	43	0.9999	NO	
10	11 L-PFOA	44	0.9999	NO	
11	13 PFHpS	47	0.9998	NO	
12	14 PFNA	45	0.9999	NO	
13	15 PFOSA	46	0.9989	NO	
14	16 L-PFOS	47	0.9993	NO	
15	18 PFDA	48	0.9996	NO	
16	19 8:2 FTS	49	0.9988	NO	
17	20 PFNS	47	0.9995	NO	
18	21 L-MeFOSAA	50	0.9995	NO	
19	23 L-EtFOSAA	52	0.9993	NO	

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:19:54 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Name: 181229M2_2, Date: 29-Dec-2018, Time: 13:24:43, ID: ST181229M2-1 PFC CS-2 18L2601, Description: PFC CS-2 18L2601

#	Name	IS#	CoD	CoD Flag	%RSD
1	25 PFUdA	51	0.9996	NO	
2	26 PFDS	47	0.9998	NO	
3	27 PFDoA	53	0.9983	NO	
4	28 N-MeFOSA	54	0.9999	NO	
5	29 PFTrDA	53	0.9997	NO	
6	30 PFTeDA	55	0.9998	NO	
7	31 N-EtFOSA	56	0.9999	NO	
8	32 PFHxDA	57	0.9999	NO	
9	33 PFODA	57	0.9999	NO	
10	34 N-MeFOSE	58	0.9999	NO	
11	35 N-EtFOSE	59	0.9997	NO	
12	36 13C3-PFBA	60		NO	1.486
13	37 13C3-PFPeA	61		NO	2.861
14	38 13C3-PFBS	62		NO	2.854
15	39 13C2-4:2 FTS	62		NO	7.825
16	40 13C2-PFHxA	61		NO	3.705
17	41 13C4-PFHpA	61		NO	2.315
18	42 18O2-PFHxS	62		NO	4.314
19	43 13C2-6:2 FTS	65		NO	5.552
20	44 13C2-PFOA	63		NO	2.424
21	45 13C5-PFNA	64		NO	2.029
22	46 13C8-PFOSA	67		NO	4.646
23	47 13C8-PFOS	65		NO	5.245
24	48 13C2-PFDA	66		NO	4.239
25	49 13C2-8:2 FTS	65		NO	11.947
26	50 d3-N-MeFOSAA	67		NO	6.192
27	51 13C2-PFUdA	67		NO	3.140
28	52 d5-N-EtFOSAA	67		NO	3.050
29	53 13C2-PFDoA	66		NO	1.829
30	54 d3-N-MeFOSA	67		NO	11.451
31	55 13C2-PFTeDA	67		NO	5.730
32	56 d5-N-ETFOSA	67		NO	7.060

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:19:54 Pacific Standard Time

Name: 181229M2_2, Date: 29-Dec-2018, Time: 13:24:43, ID: ST181229M2-1 PFC CS-2 18L2601, Description: PFC CS-2 18L2601

	# Name	IS#	CoD	CoD Flag	%RSD
33	57 13C2-PFHxDA	67		NO	9.802
34	58 d7-N-MeFOSE	67		NO	12.769
35	59 d9-N-EtFOSE	67		NO	12.362
36	60 13C4-PFBA	60		NO	0.000
37	61 13C5-PFHxA	61		NO	0.000
38	62 13C3-PFHxS	62		NO	0.000
39	63 13C8-PFOA	63		NO	0.000
40	64 13C9-PFNA	64		NO	0.000
41	65 13C4-PFOS	65		NO	0.000
42	66 13C6-PFDA	66		NO	0.000
43	67 13C7-PFUDa	67		NO	0.000

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 16:23:20 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Name: 181229M2_7, Date: 29-Dec-2018, Time: 14:17:39, ID: ST181229M2-6 PFC CS3 18L2606, Description: PFC CS3 18L2606

	Name	Ion Ratio	Ratio out?
1	PFBA		
2	PFPeA		
3	PFBS	2.970	NO
4	4:2 FTS	1.694	NO
5	PFHxA	14.458	NO
6	PFPeS	1.714	NO
7	PFHpA	14.580	NO
8	L-PFHxS	1.781	NO
9	6:2 FTS	2.962	NO
10	L-PFOA	3.198	NO
11	PFHpS	1.994	NO
12	PFNA	4.748	NO
13	PFOSA	37.402	NO
14	L-PFOS	1.998	NO
15	PFDA	5.327	NO
16	8:2 FTS	2.581	NO
17	PFNS	2.011	NO
18	L-MeFOSAA	2.384	NO
19	L-EtFOSAA	1.317	NO

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 16:23:37 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Name: 181229M2_7, Date: 29-Dec-2018, Time: 14:17:39, ID: ST181229M2-6 PFC CS3 18L2606, Description: PFC CS3 18L2606

	Name	Ion Ratio	Ratio out?
1	PFUdA	11.337	NO
2	PFDS	1.775	NO
3	PFDoA	10.018	NO
4	N-MeFOSA	1.553	NO
5	PFTrDA	27.371	NO
6	PFTeDA	13.530	NO
7	N-EtFOSA	1.602	NO
8	PFHxDA	25.375	NO
9	PFODA		
10	N-MeFOSE		
11	N-EtFOSE		

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

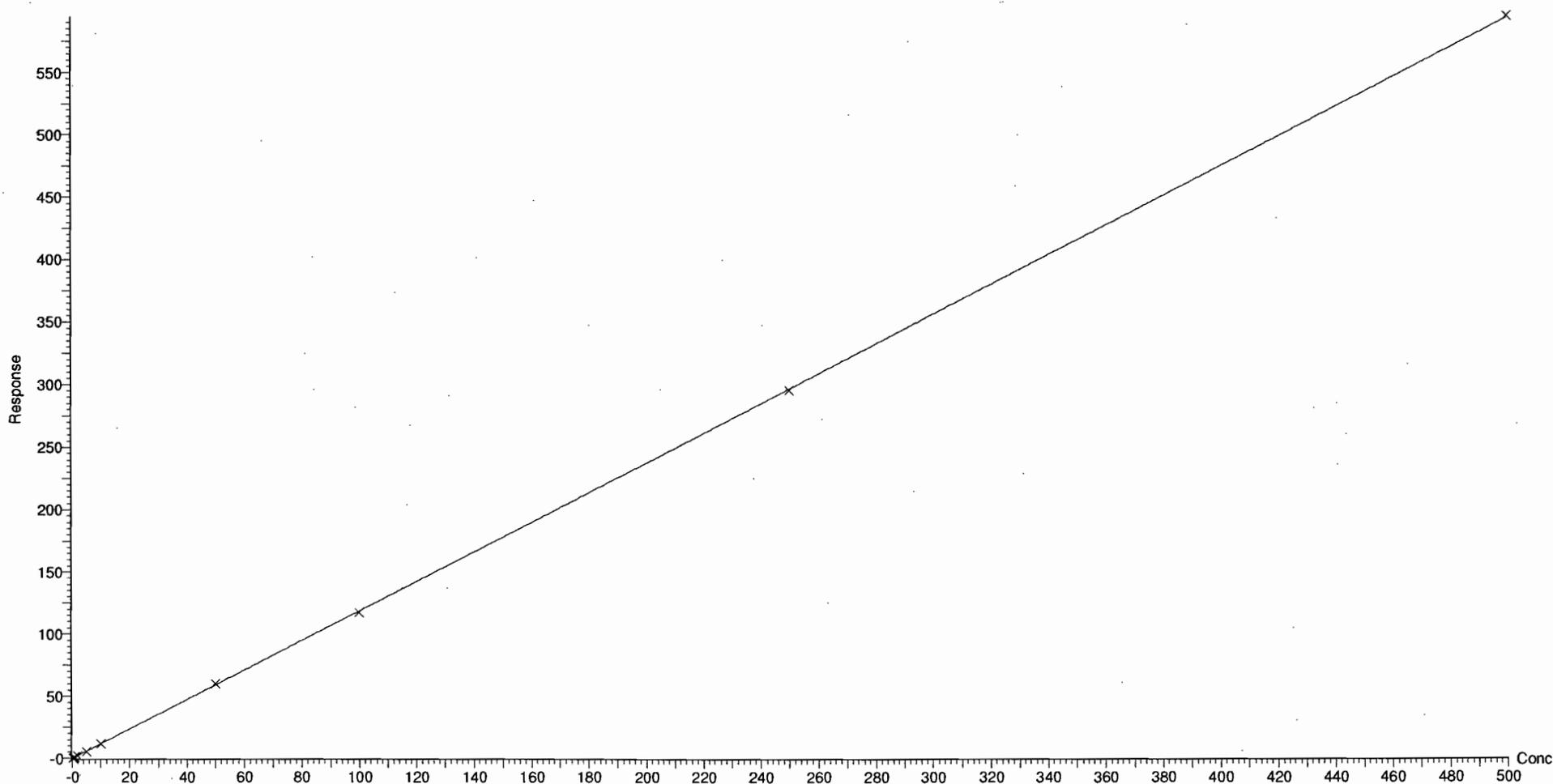
Compound name: PFBA

Correlation coefficient: $r = 0.999959$, $r^2 = 0.999917$

Calibration curve: $1.18588 * x + -0.0823146$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

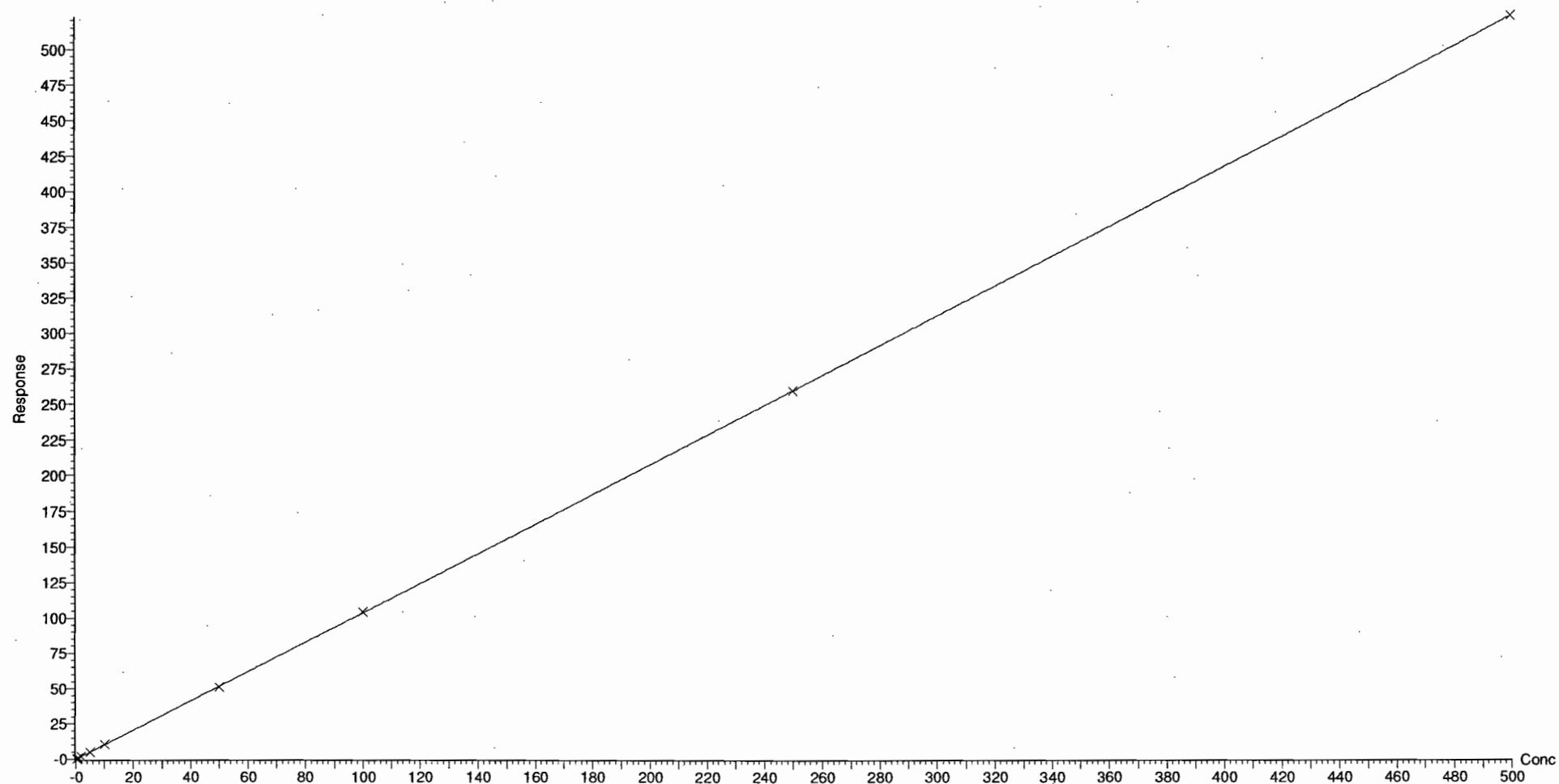
Compound name: PFPeA

Coefficient of Determination: $R^2 = 0.999938$

Calibration curve: $2.48403e-005 * x^2 + 1.03326 * x + -0.0426493$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

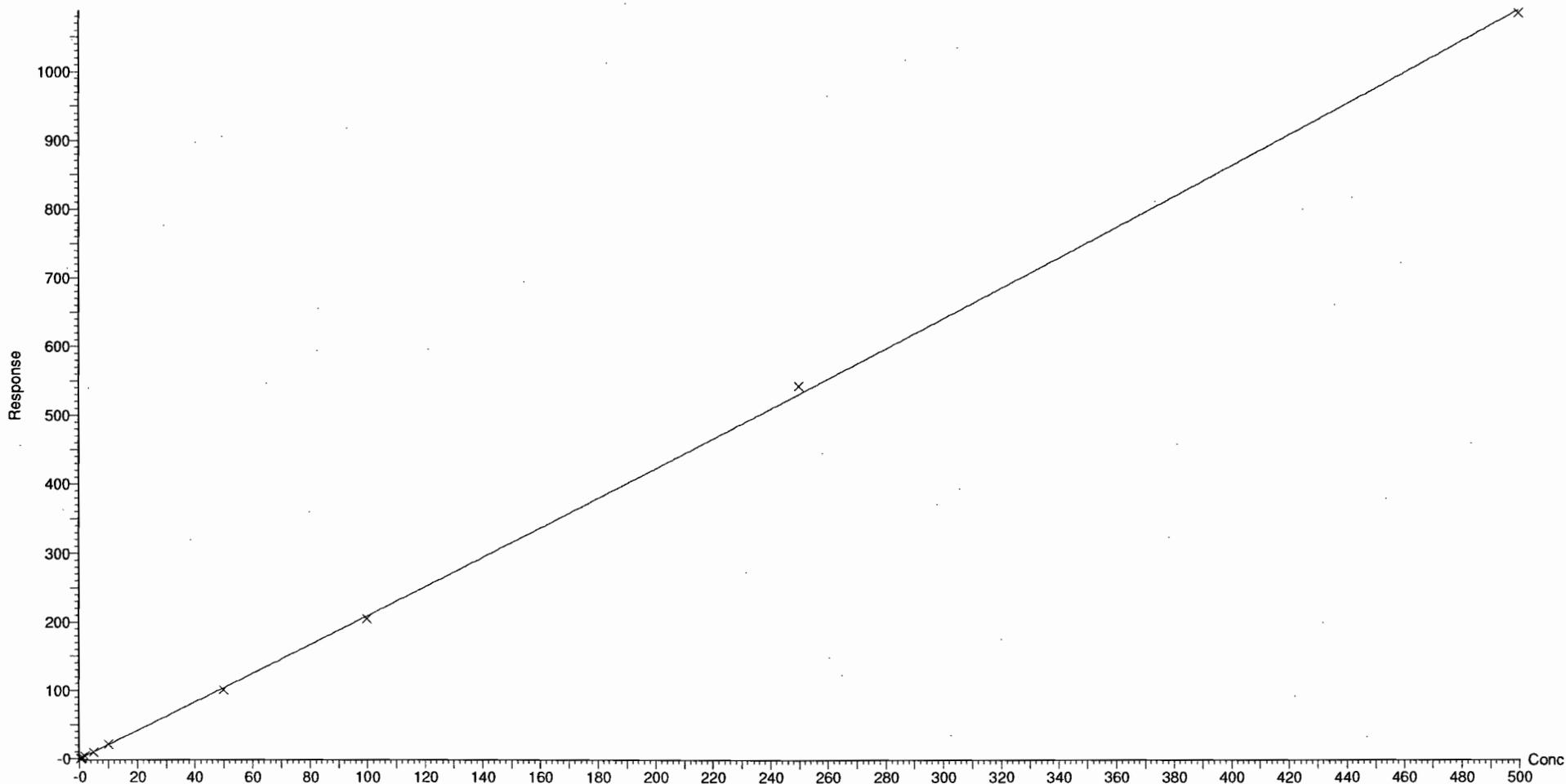
Compound name: PFBS

Coefficient of Determination: $R^2 = 0.999730$

Calibration curve: $0.00021041 * x^2 + 2.07254 * x + -0.127278$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

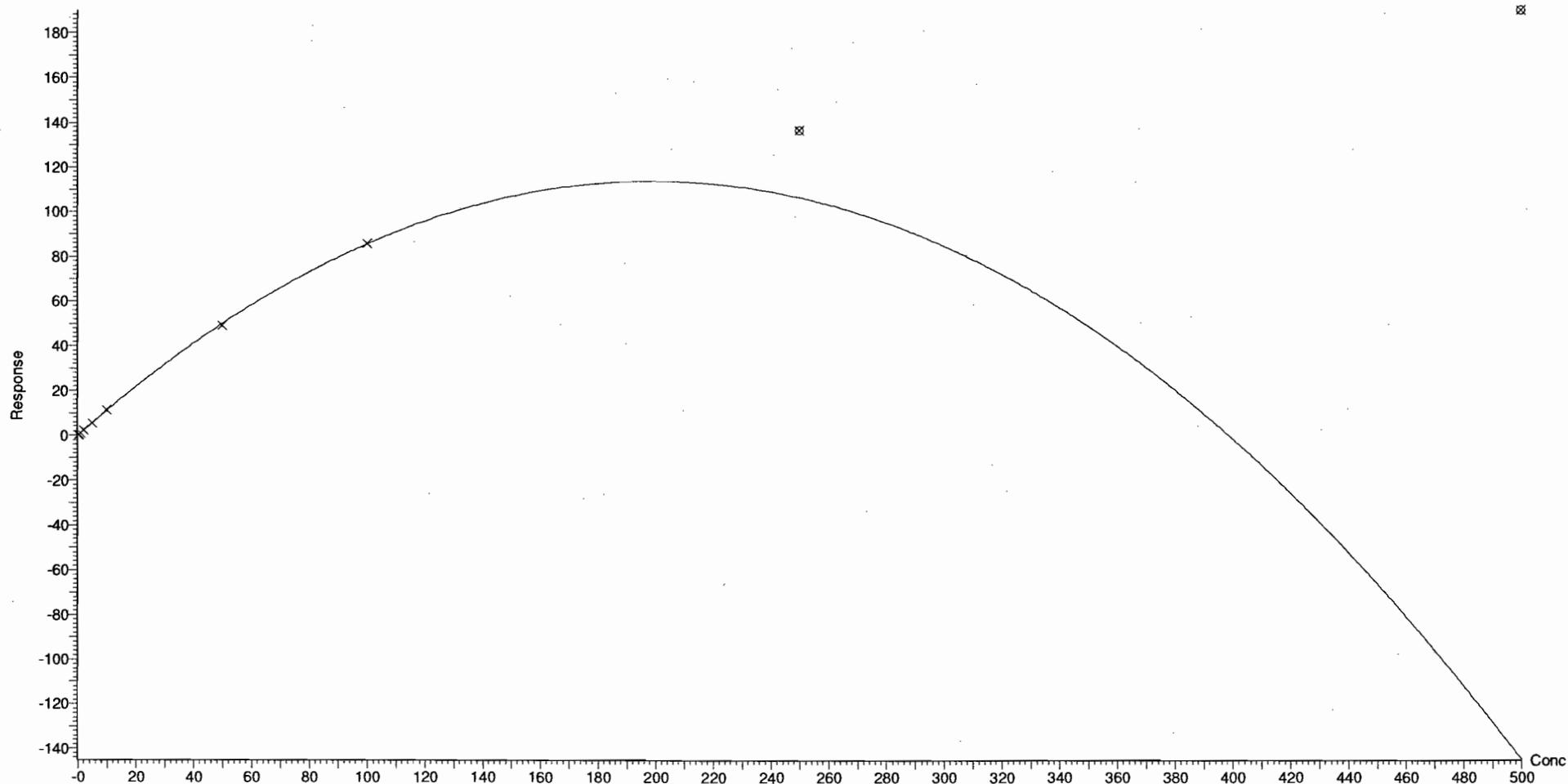
Compound name: 4:2 FTS

Coefficient of Determination: $R^2 = 0.999772$

Calibration curve: $-0.00286531 * x^2 + 1.14289 * x + -0.0200174$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

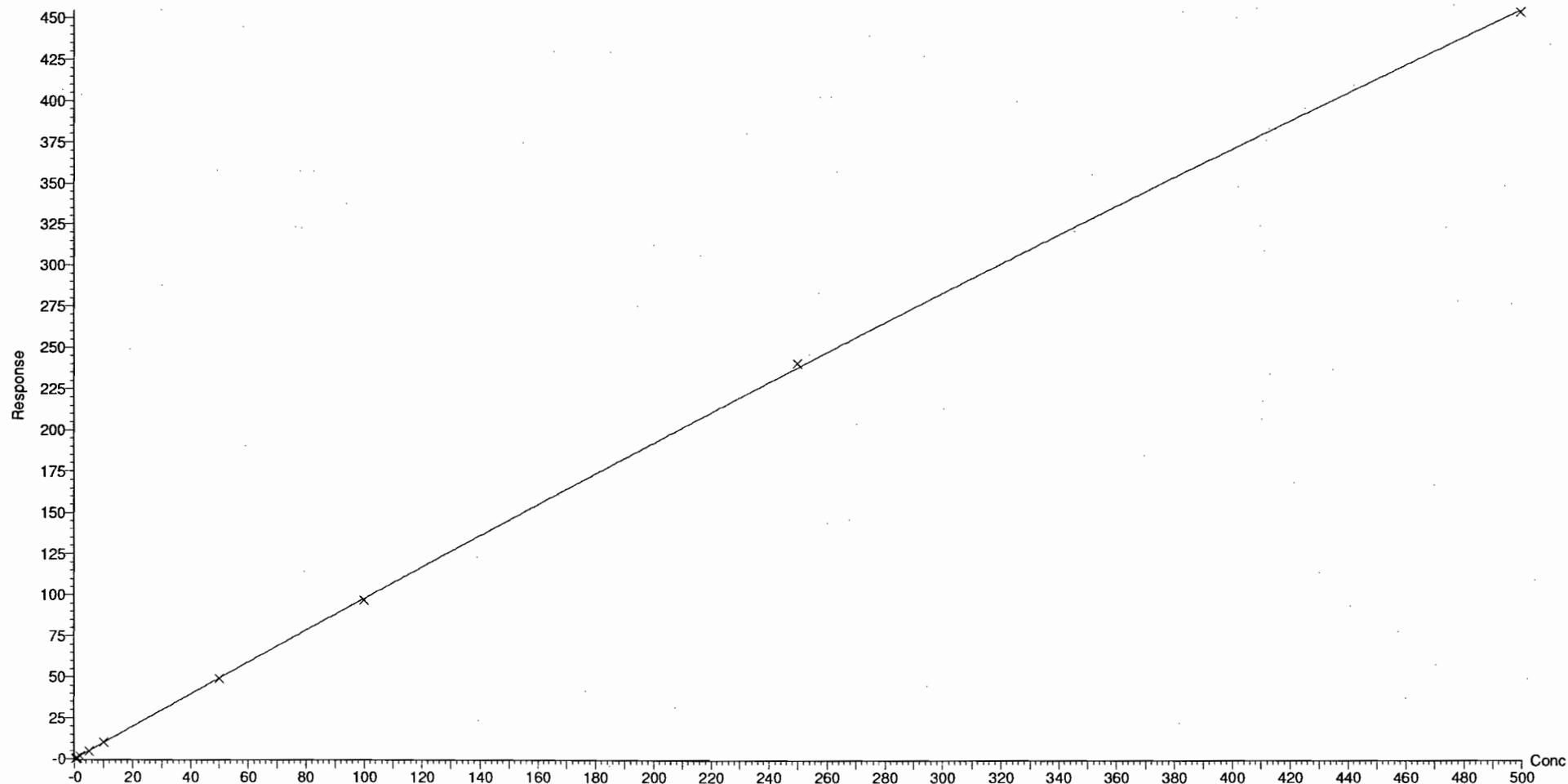
Compound name: PFHxA

Coefficient of Determination: $R^2 = 0.999886$

Calibration curve: $-0.000171925 * x^2 + 0.995181 * x - 0.00364292$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

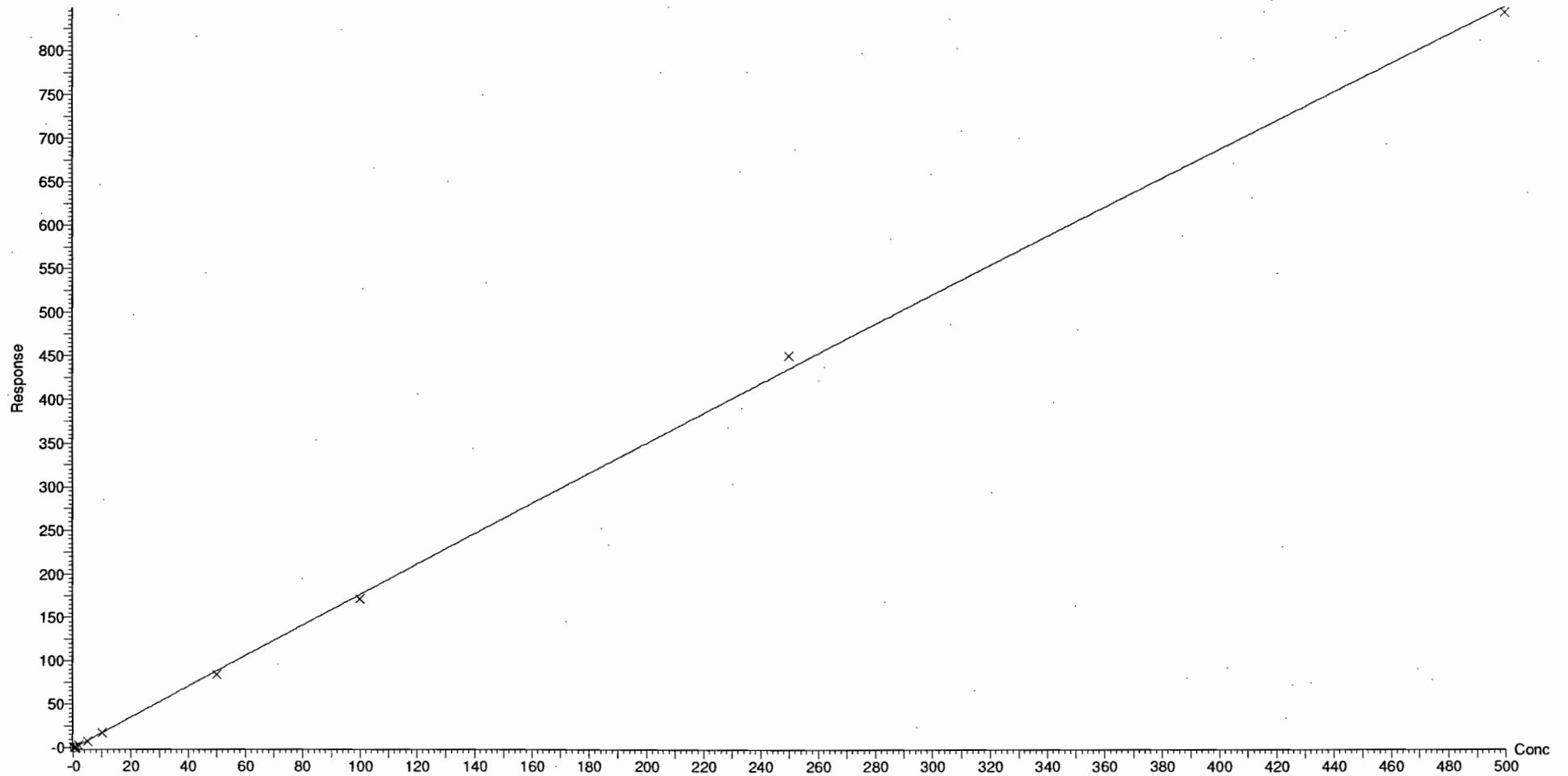
Compound name: PFPeS

Coefficient of Determination: $R^2 = 0.999381$

Calibration curve: $-0.000173322 * x^2 + 1.78673 * x - 0.37064$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

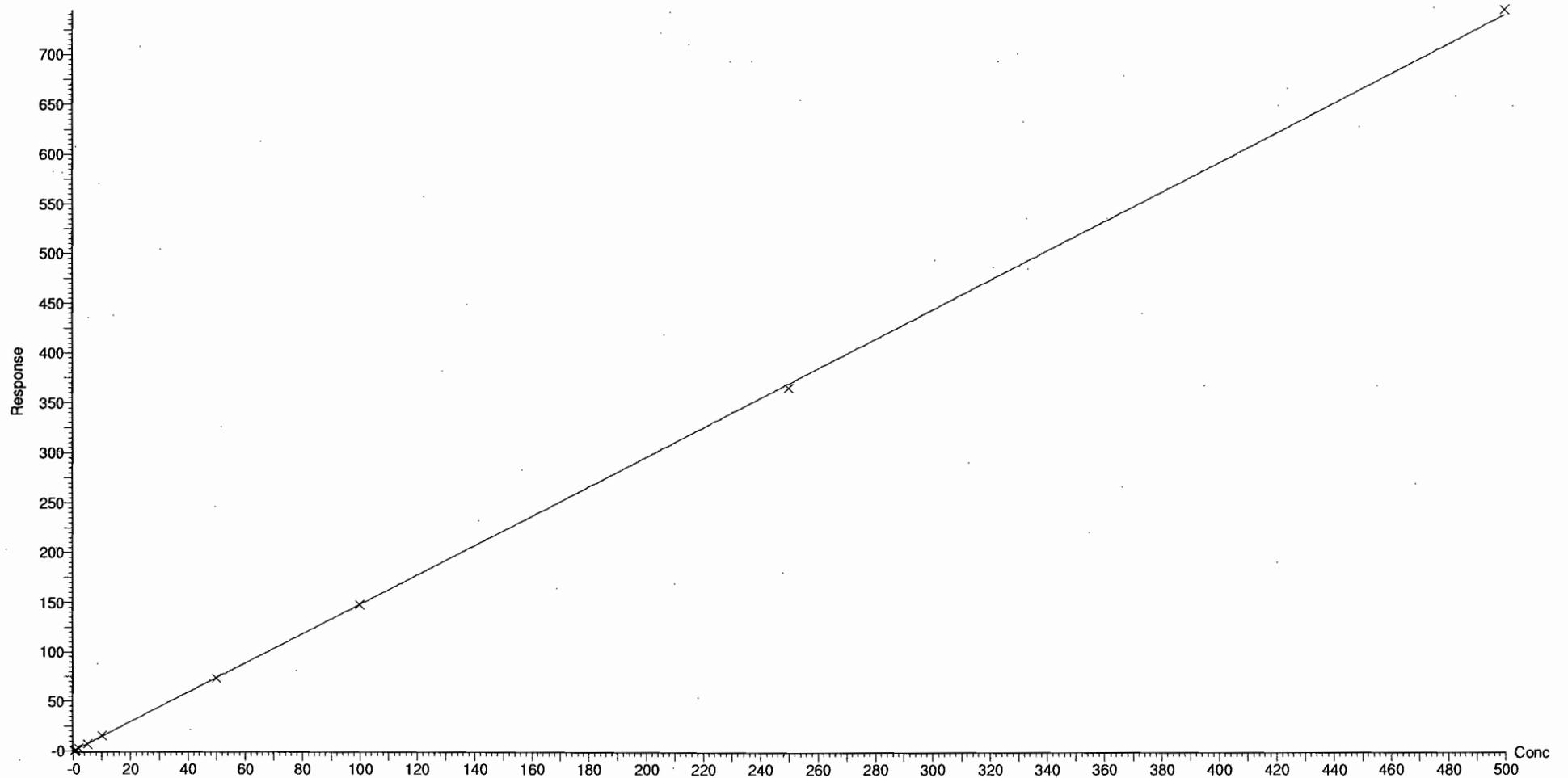
Compound name: PFHpA

Correlation coefficient: $r = 0.999939$, $r^2 = 0.999877$

Calibration curve: $1.47858 * x + -0.0196842$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

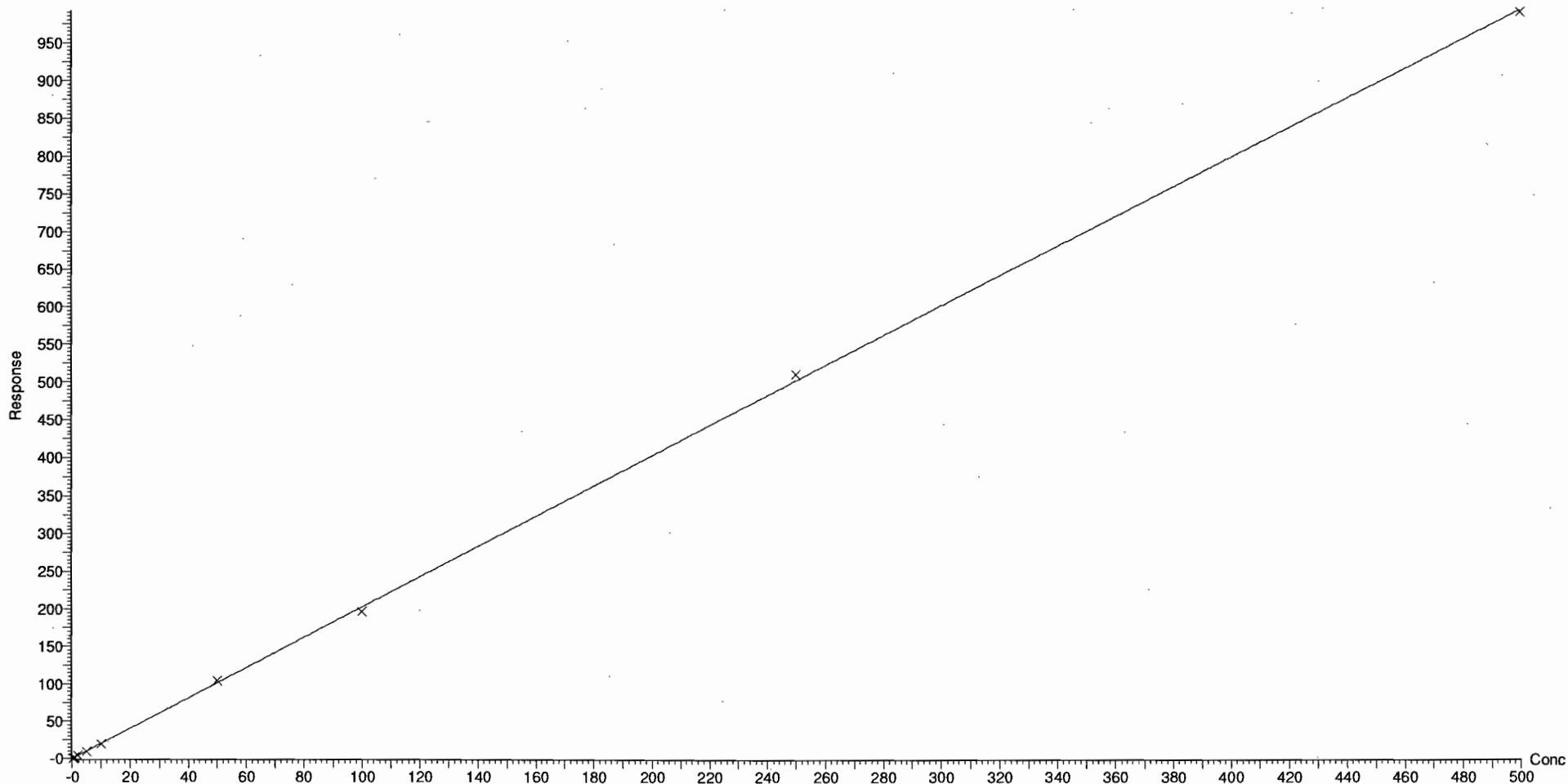
Compound name: L-PFHxS

Coefficient of Determination: $R^2 = 0.999709$

Calibration curve: $-9.74234e-005 * x^2 + 2.03406 * x + -0.0714373$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

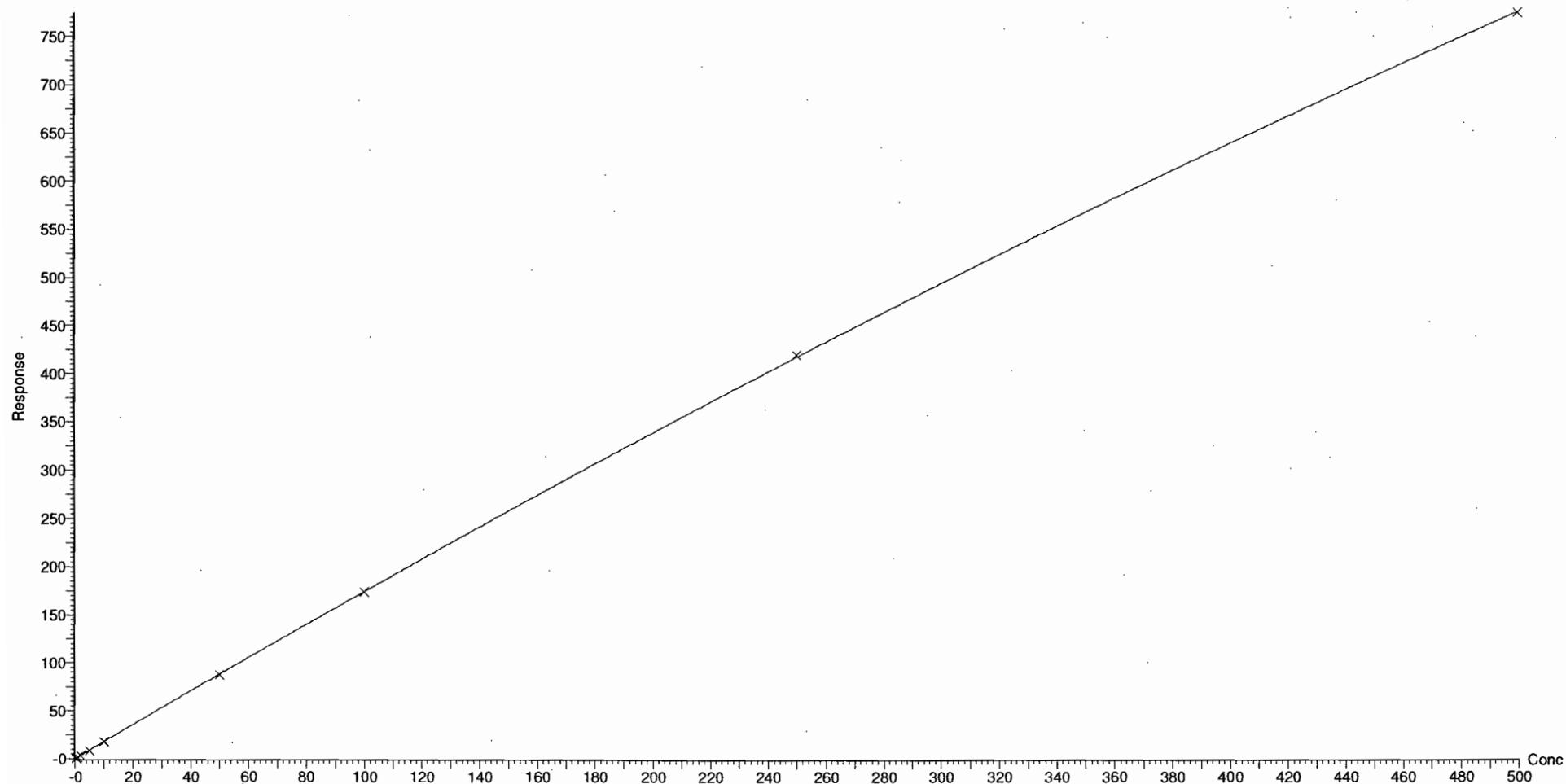
Compound name: 6:2 FTS

Coefficient of Determination: $R^2 = 0.999927$

Calibration curve: $-0.000482516 * x^2 + 1.79085 * x - 0.0431136$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

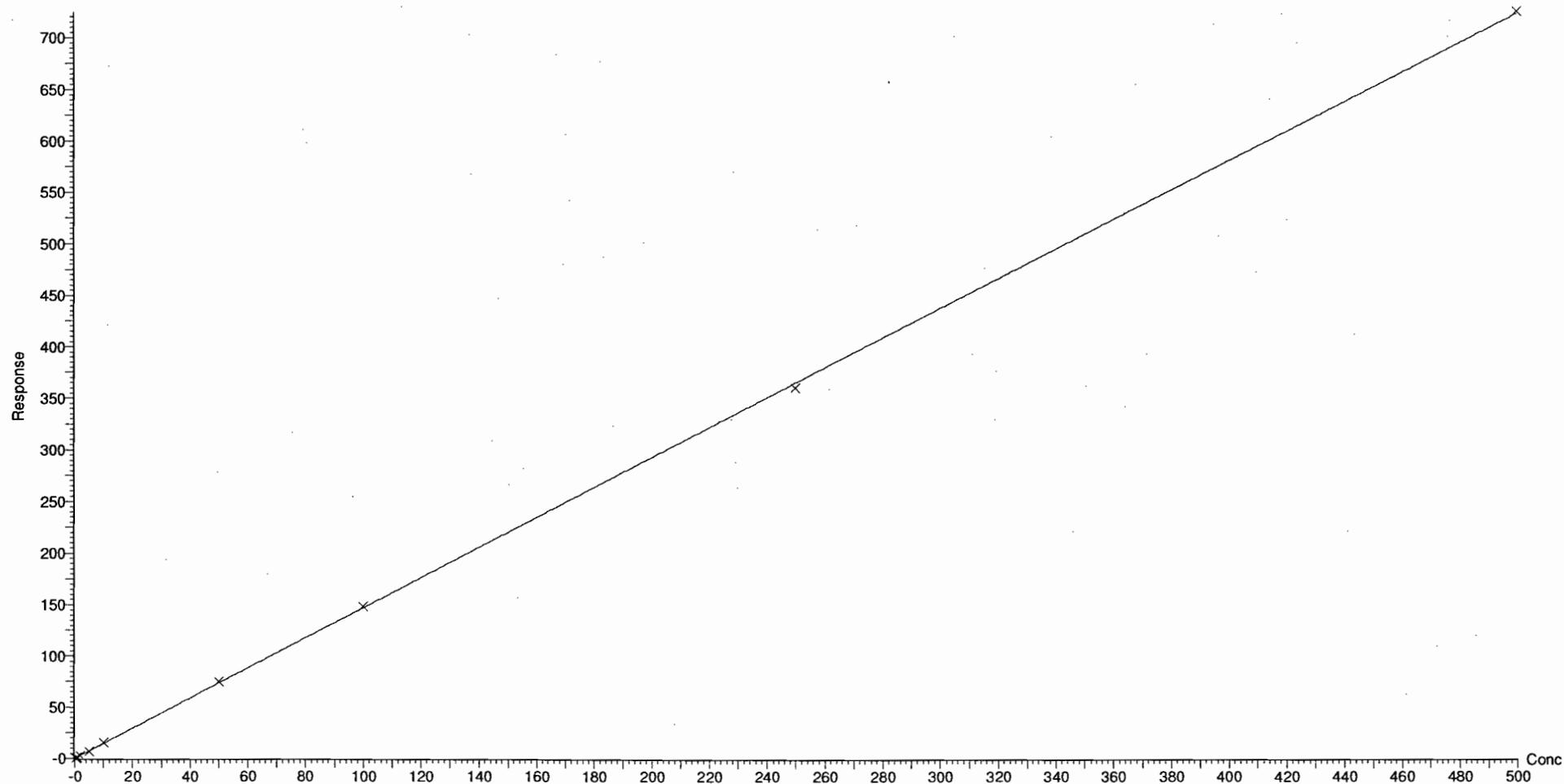
Compound name: L-PFOA

Coefficient of Determination: $R^2 = 0.999851$

Calibration curve: $-6.34381e-005 * x^2 + 1.47701 * x + 0.0362127$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

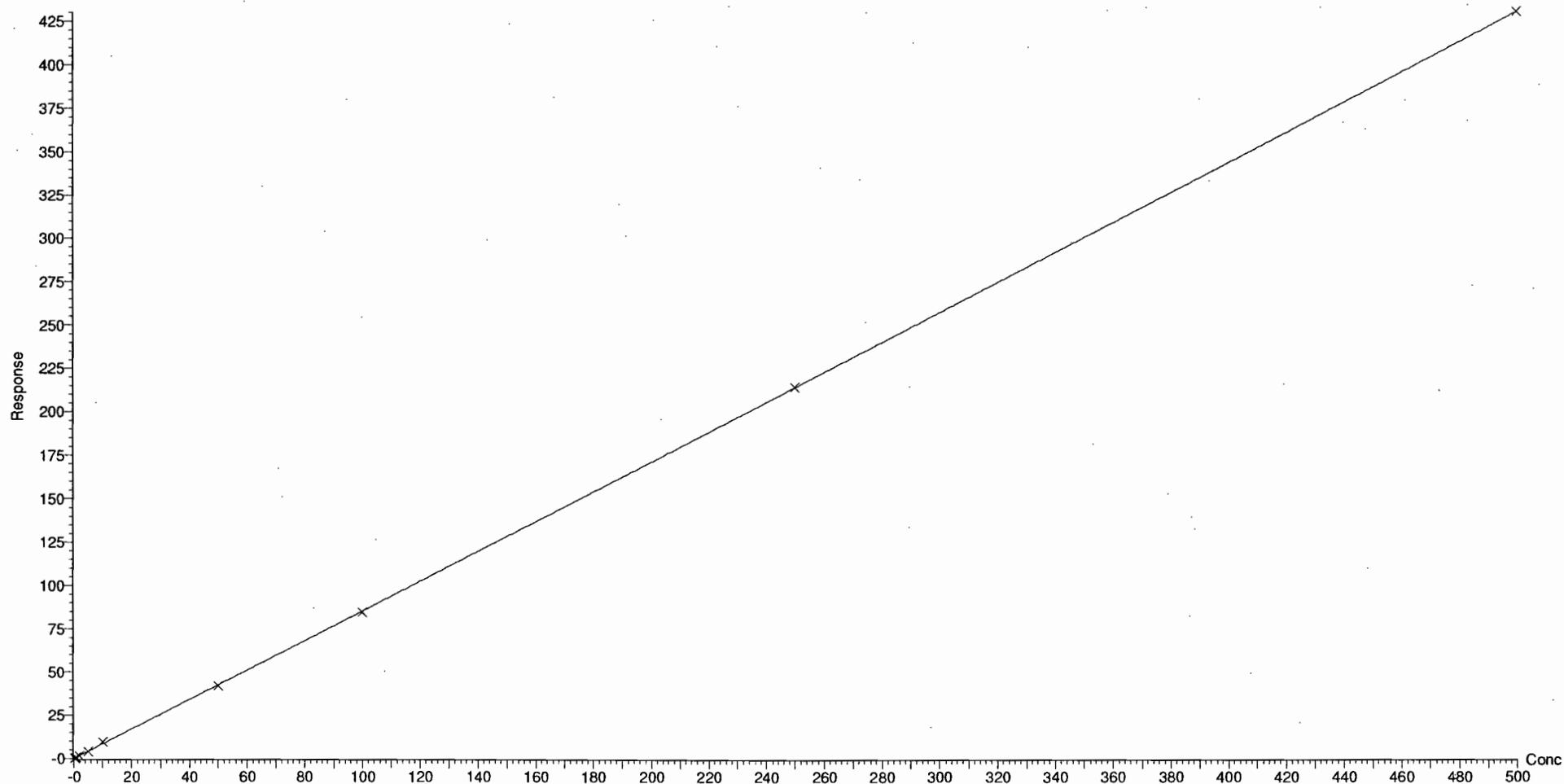
Compound name: PFHpS

Coefficient of Determination: $R^2 = 0.999813$

Calibration curve: $1.51699e-005 * x^2 + 0.85266 * x + -0.044668$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

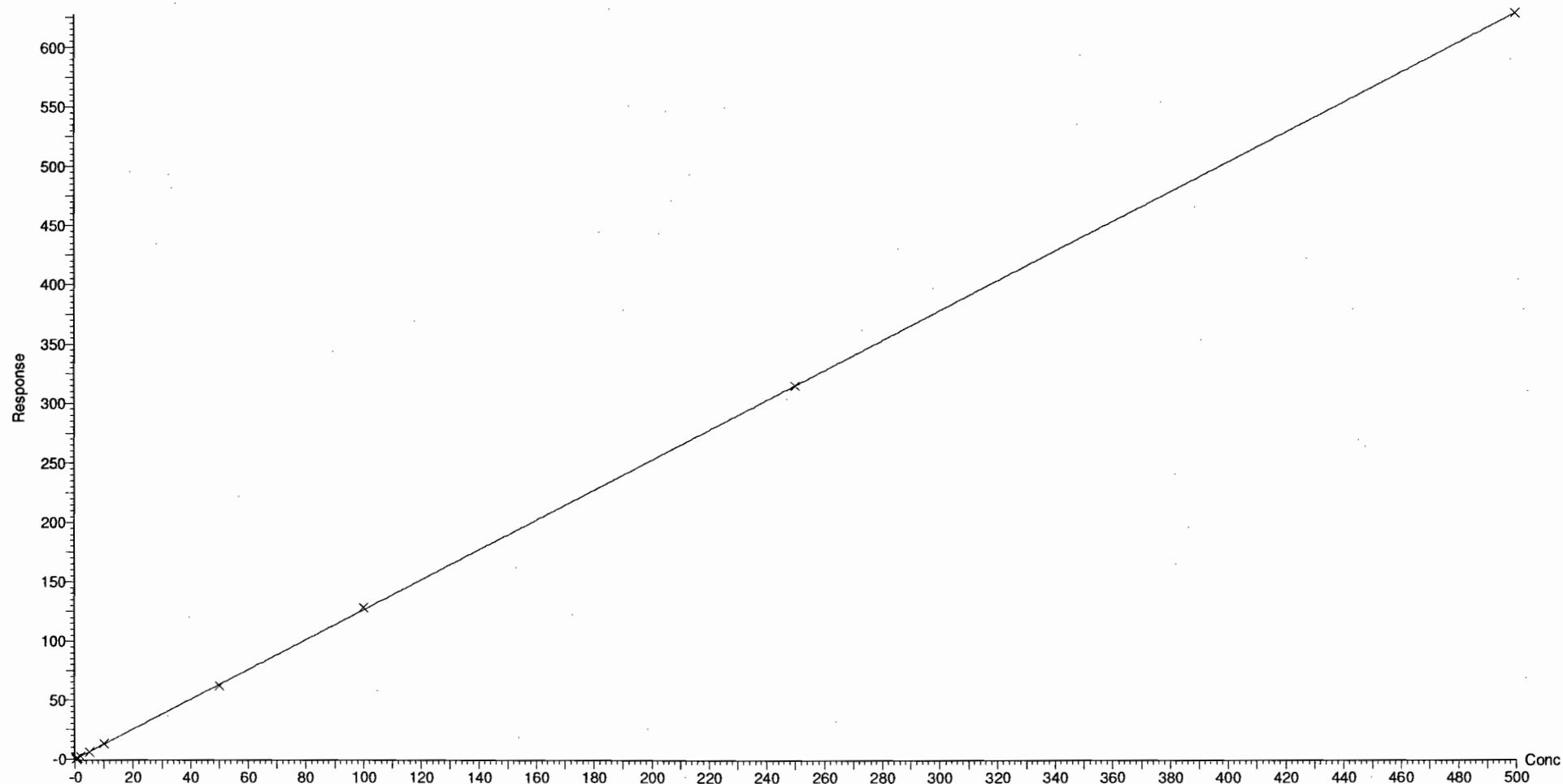
Compound name: PFNA

Coefficient of Determination: $R^2 = 0.999915$

Calibration curve: $-2.05618e-005 * x^2 + 1.26573 * x + -0.0640136$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

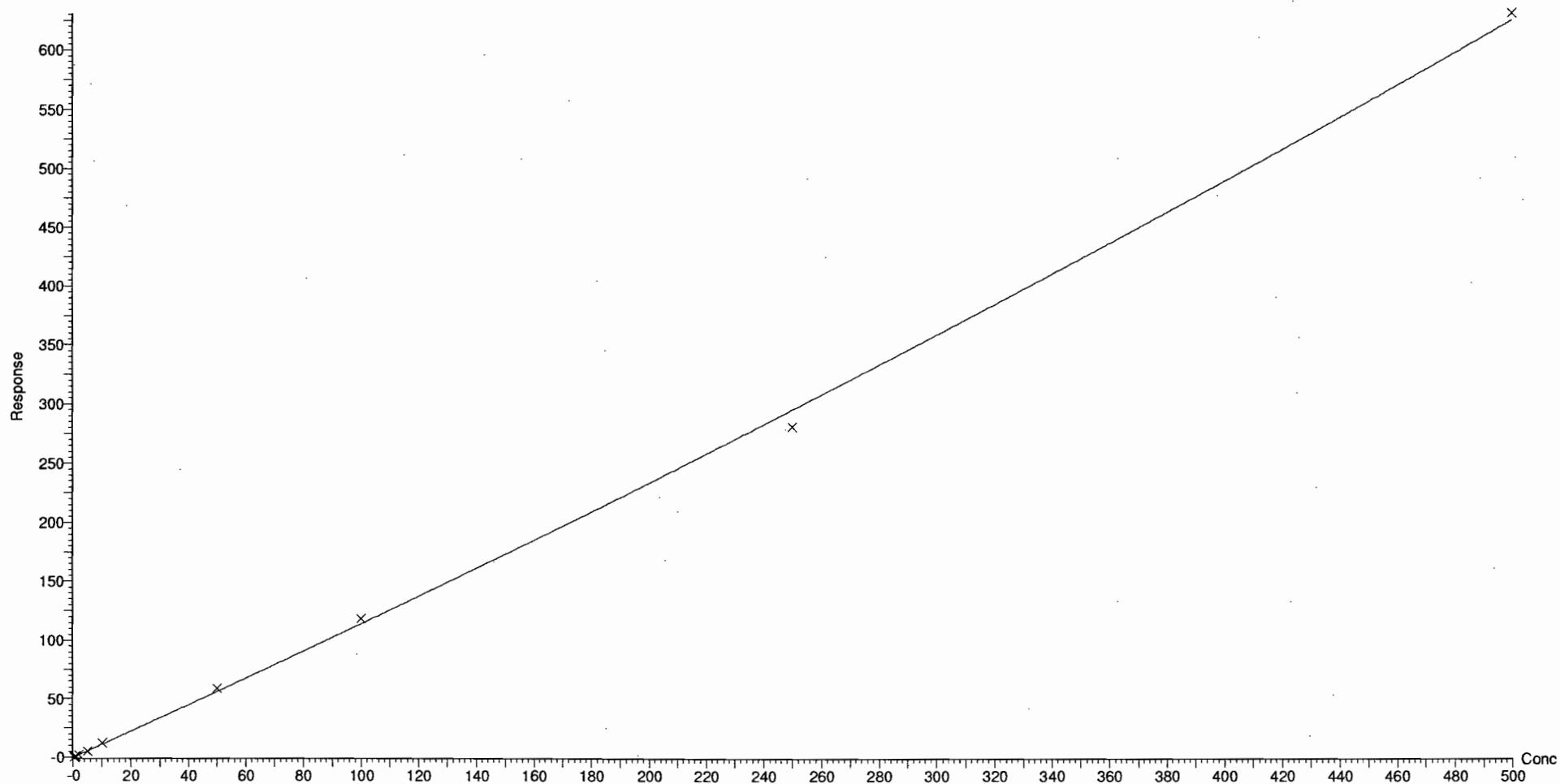
Compound name: PFOSA

Coefficient of Determination: $R^2 = 0.998926$

Calibration curve: $0.000275834 * x^2 + 1.11214 * x + 0.0389668$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

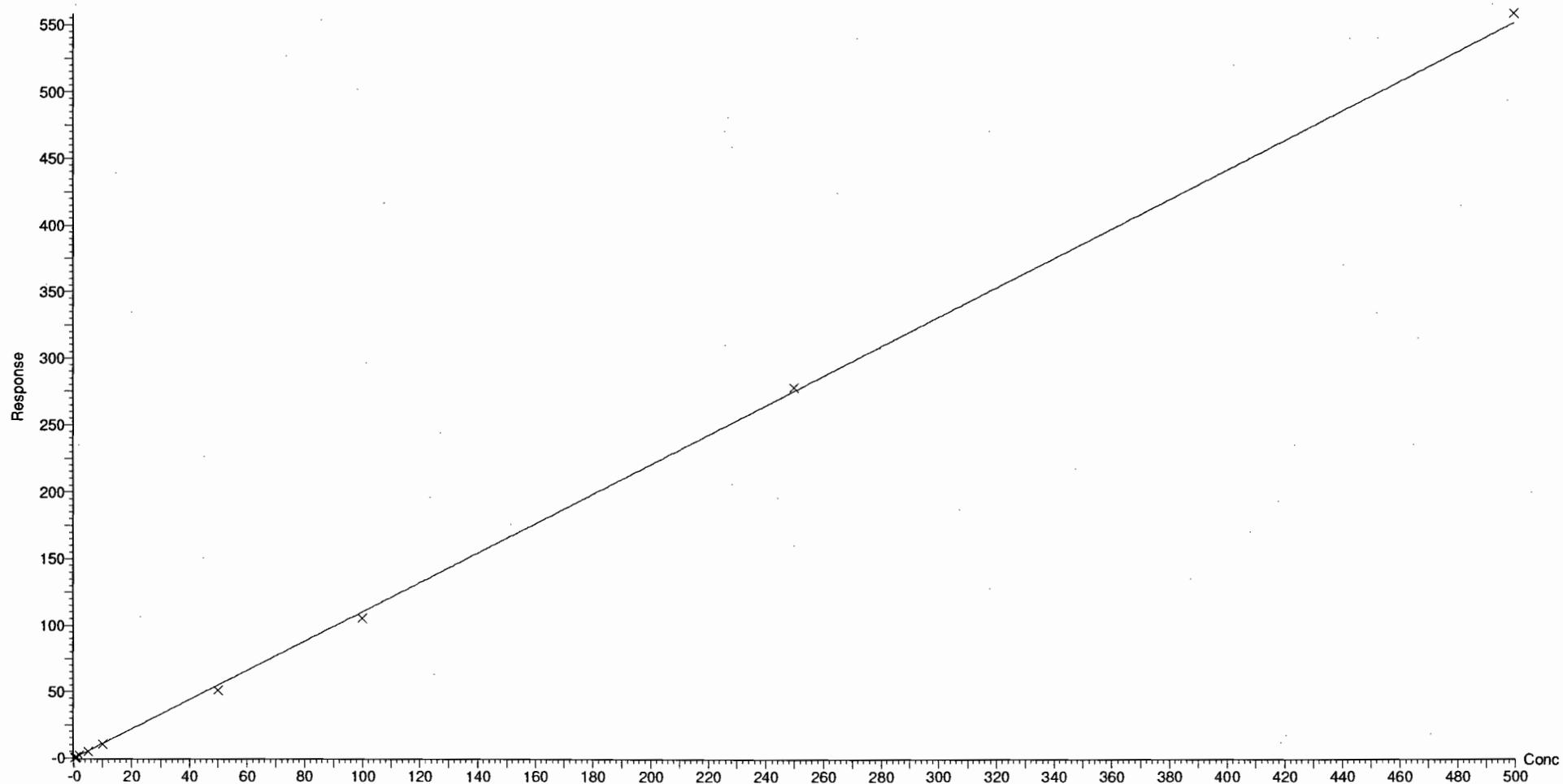
Compound name: L-PFOS

Correlation coefficient: $r = 0.999657$, $r^2 = 0.999314$

Calibration curve: $1.10276 * x + -0.060196$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

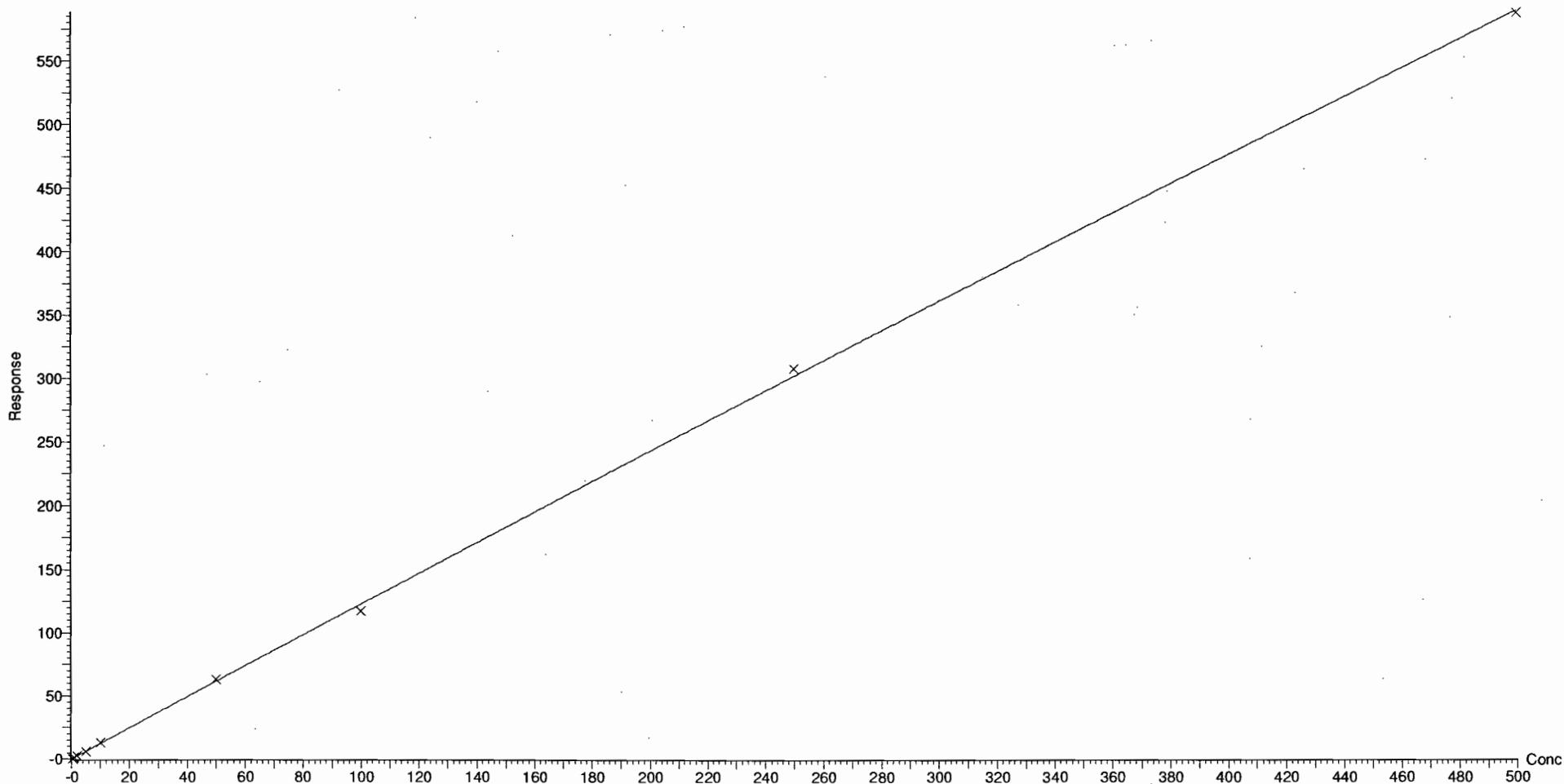
Compound name: PFDA

Coefficient of Determination: $R^2 = 0.999598$

Calibration curve: $-0.00012428 * x^2 + 1.23984 * x + 0.0179882$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

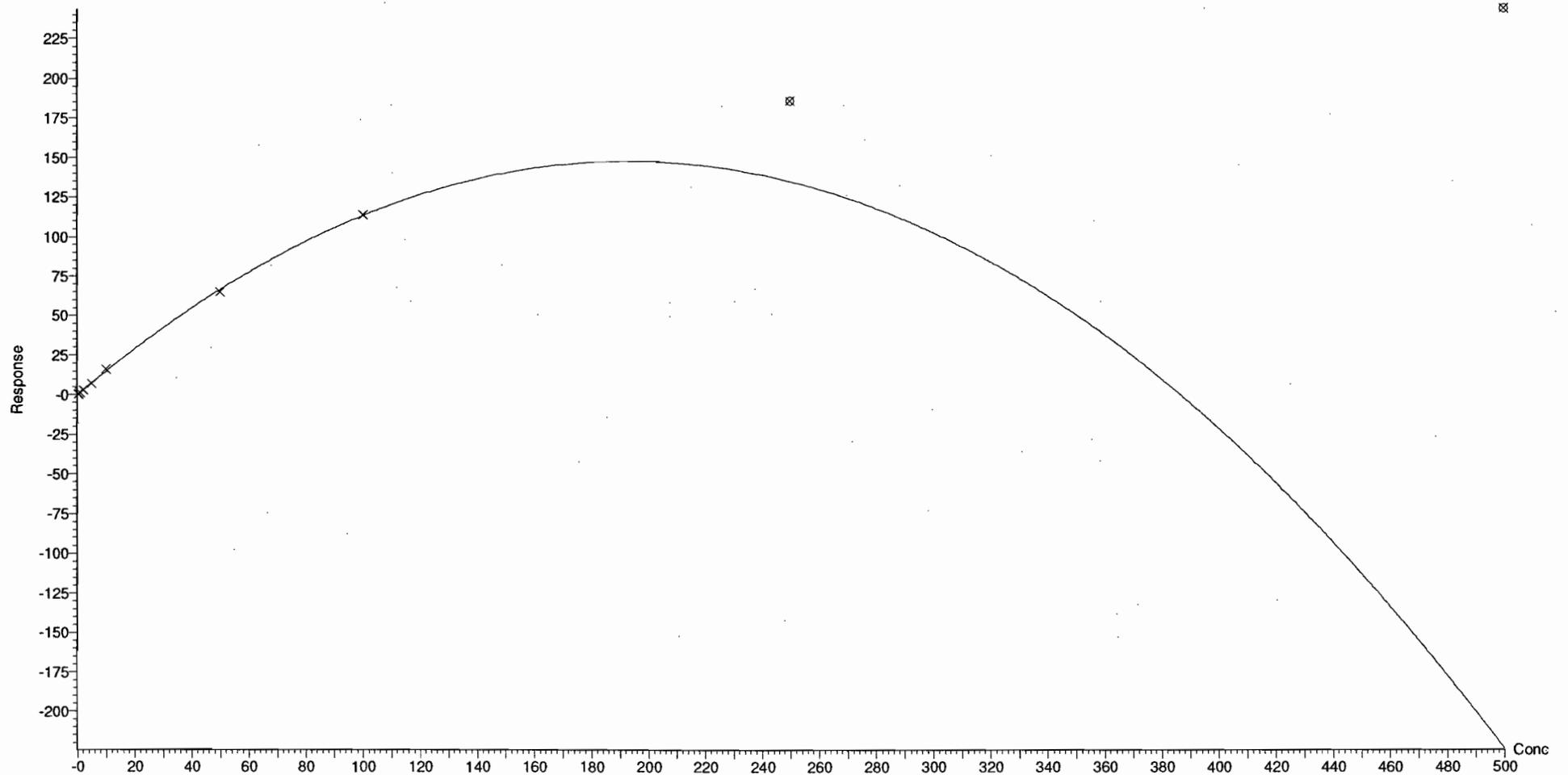
Compound name: 8:2 FTS

Coefficient of Determination: $R^2 = 0.998842$

Calibration curve: $-0.00395163 * x^2 + 1.52796 * x + -0.023333$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

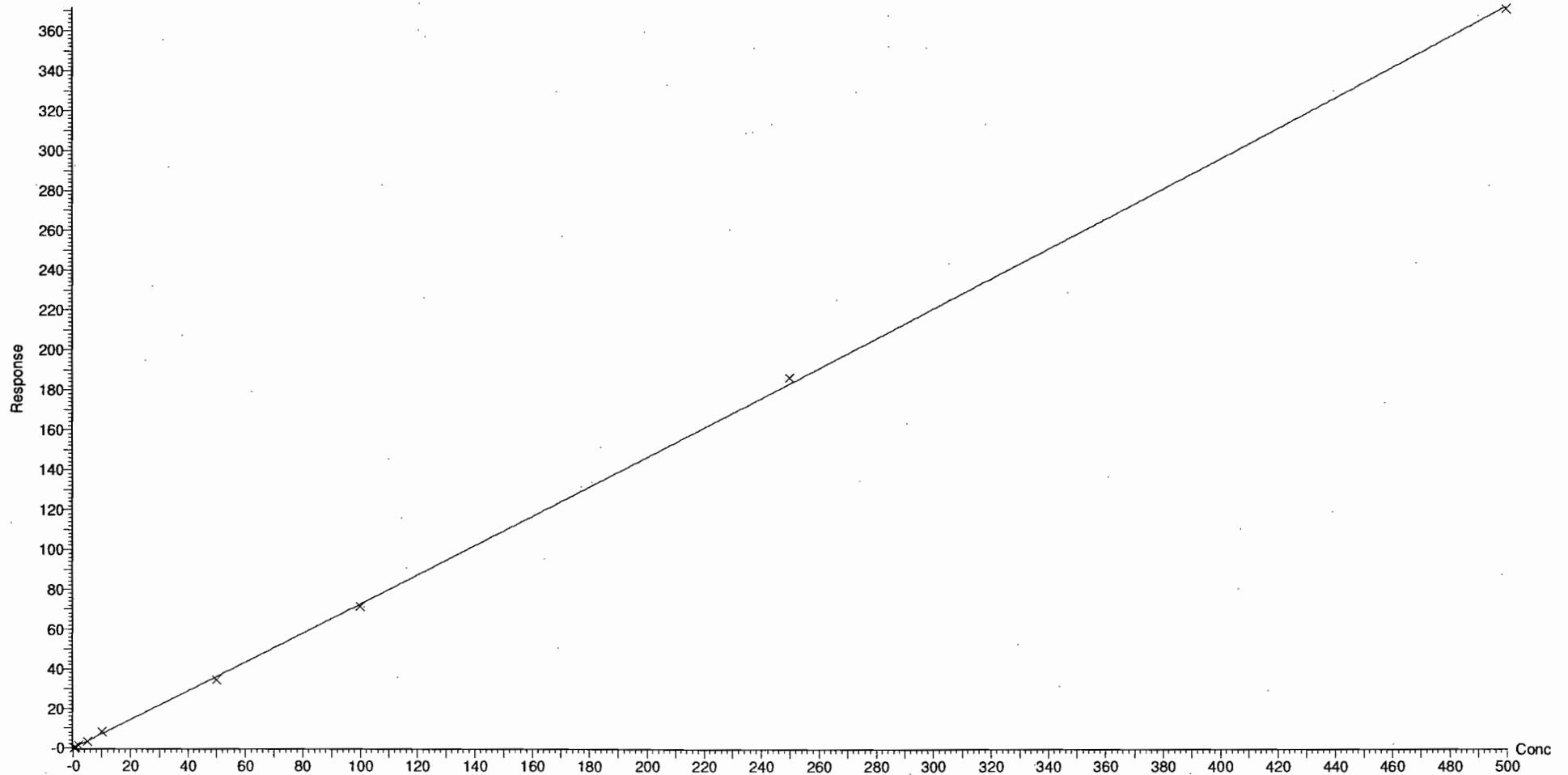
Compound name: PFNS

Coefficient of Determination: $R^2 = 0.999544$

Calibration curve: $4.38436e-005 * x^2 + 0.721731 * x - 0.0176607$

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

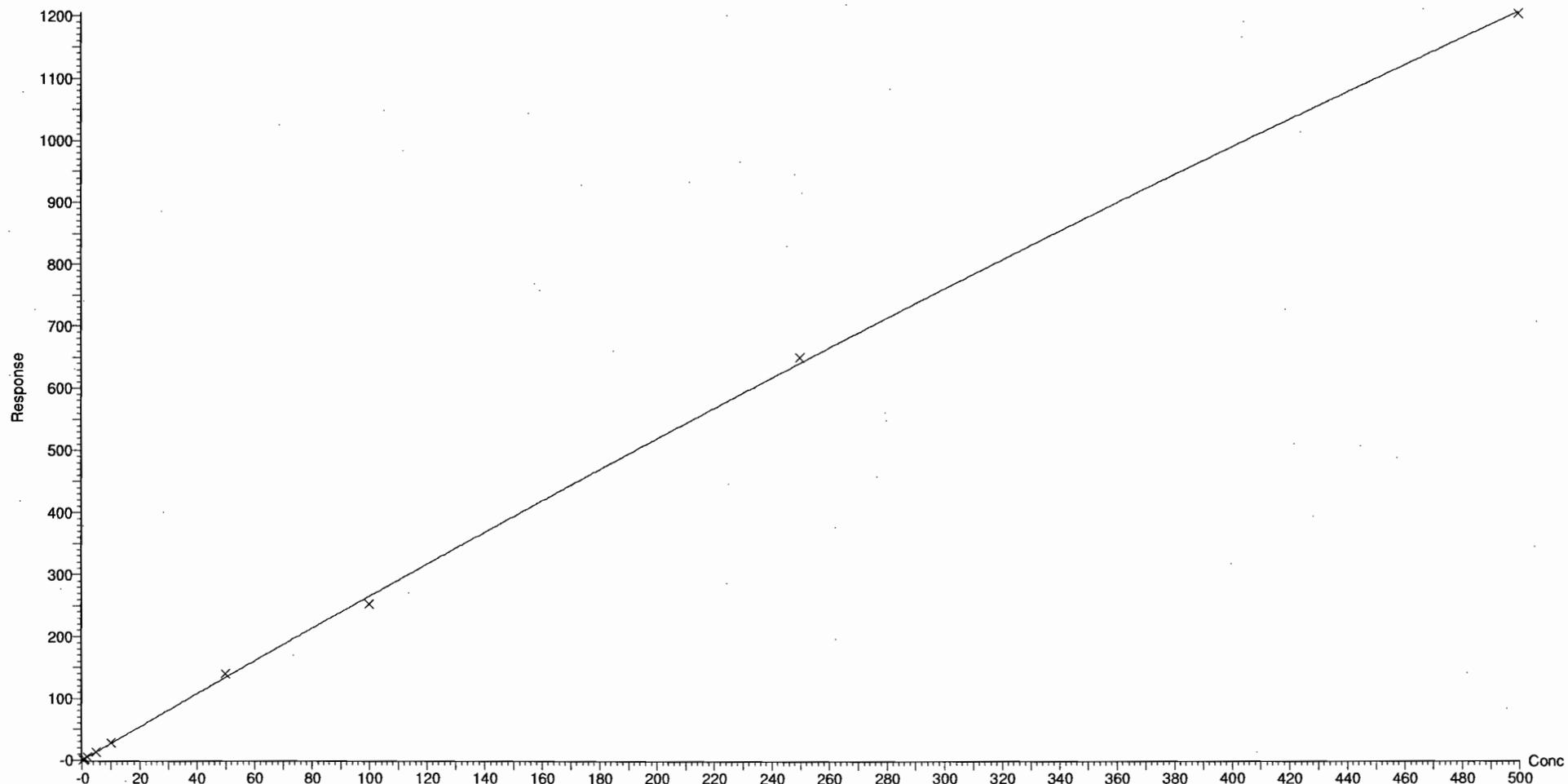
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time
Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

Compound name: L-MeFOSAA
Coefficient of Determination: $R^2 = 0.999460$
Calibration curve: $-0.000615975 * x^2 + 2.71861 * x + -0.197701$
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:00 Pacific Standard Time

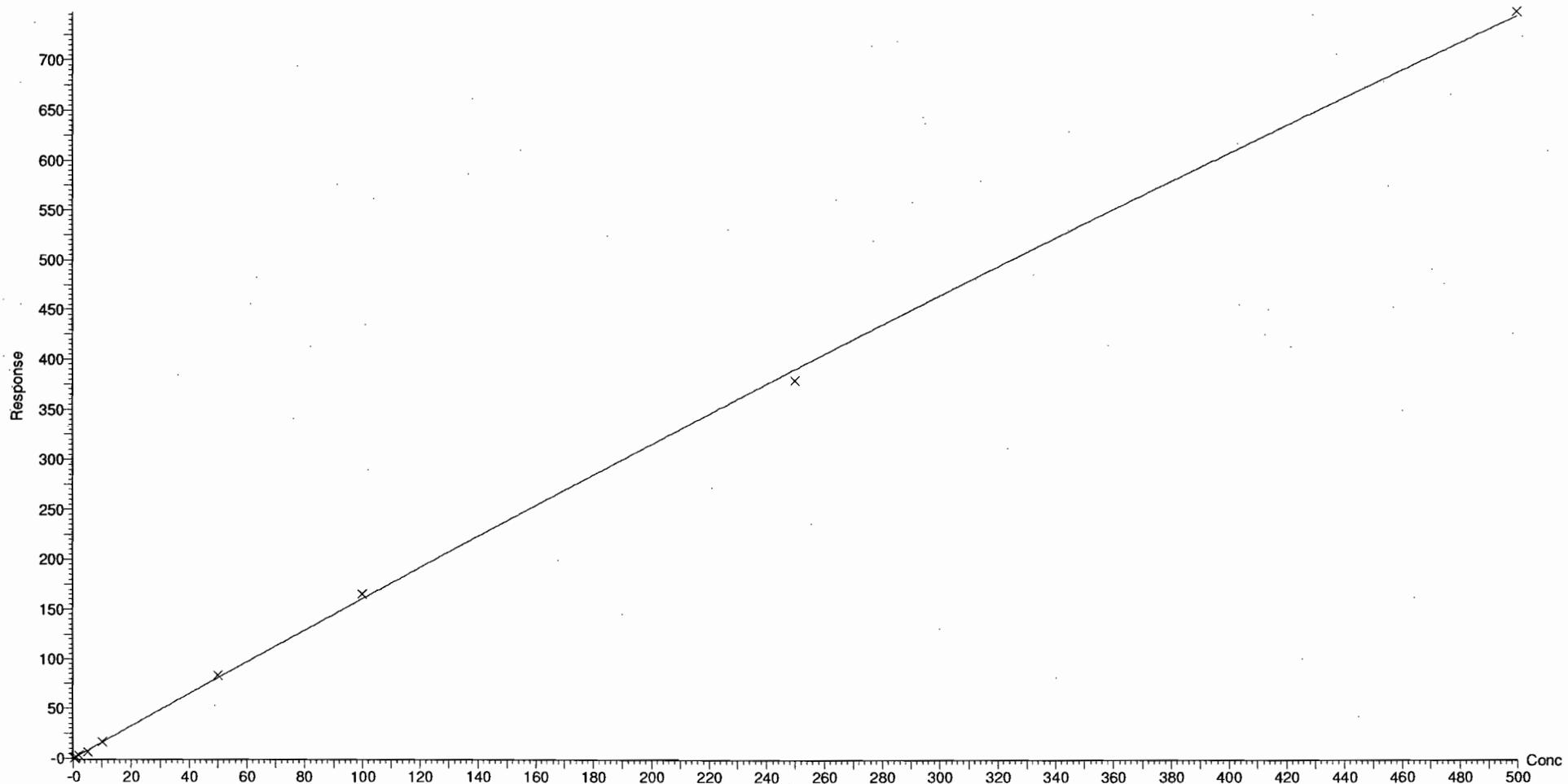
Compound name: L-EtFOSAA

Coefficient of Determination: $R^2 = 0.999330$

Calibration curve: $-0.000297179 * x^2 + 1.63616 * x + -0.138937$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_122918.mdb 29 Dec 2018 16:19:21

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

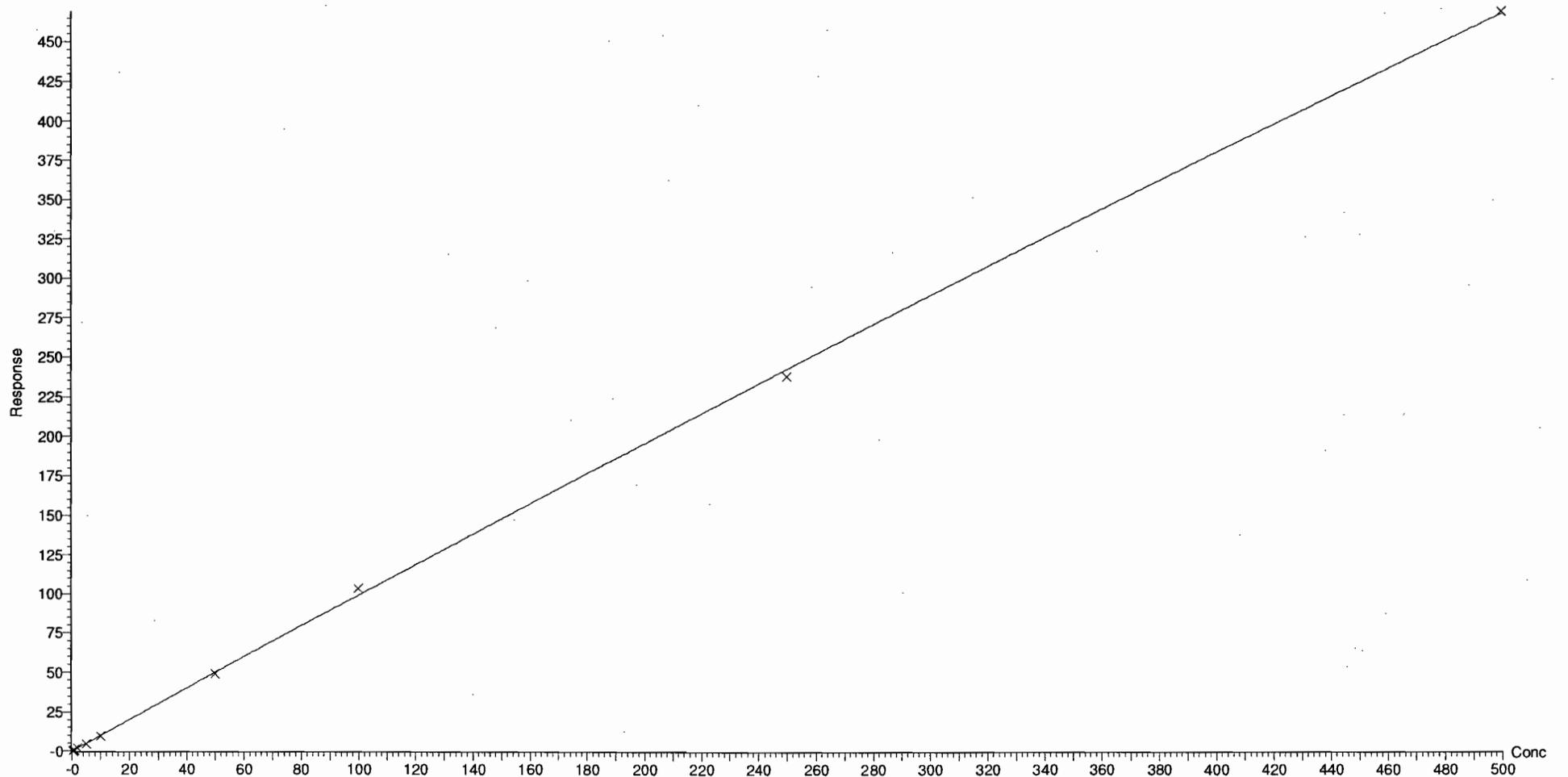
Compound name: PFUdA

Coefficient of Determination: $R^2 = 0.999605$

Calibration curve: $-0.000140506 * x^2 + 1.00549 * x + 0.0170739$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

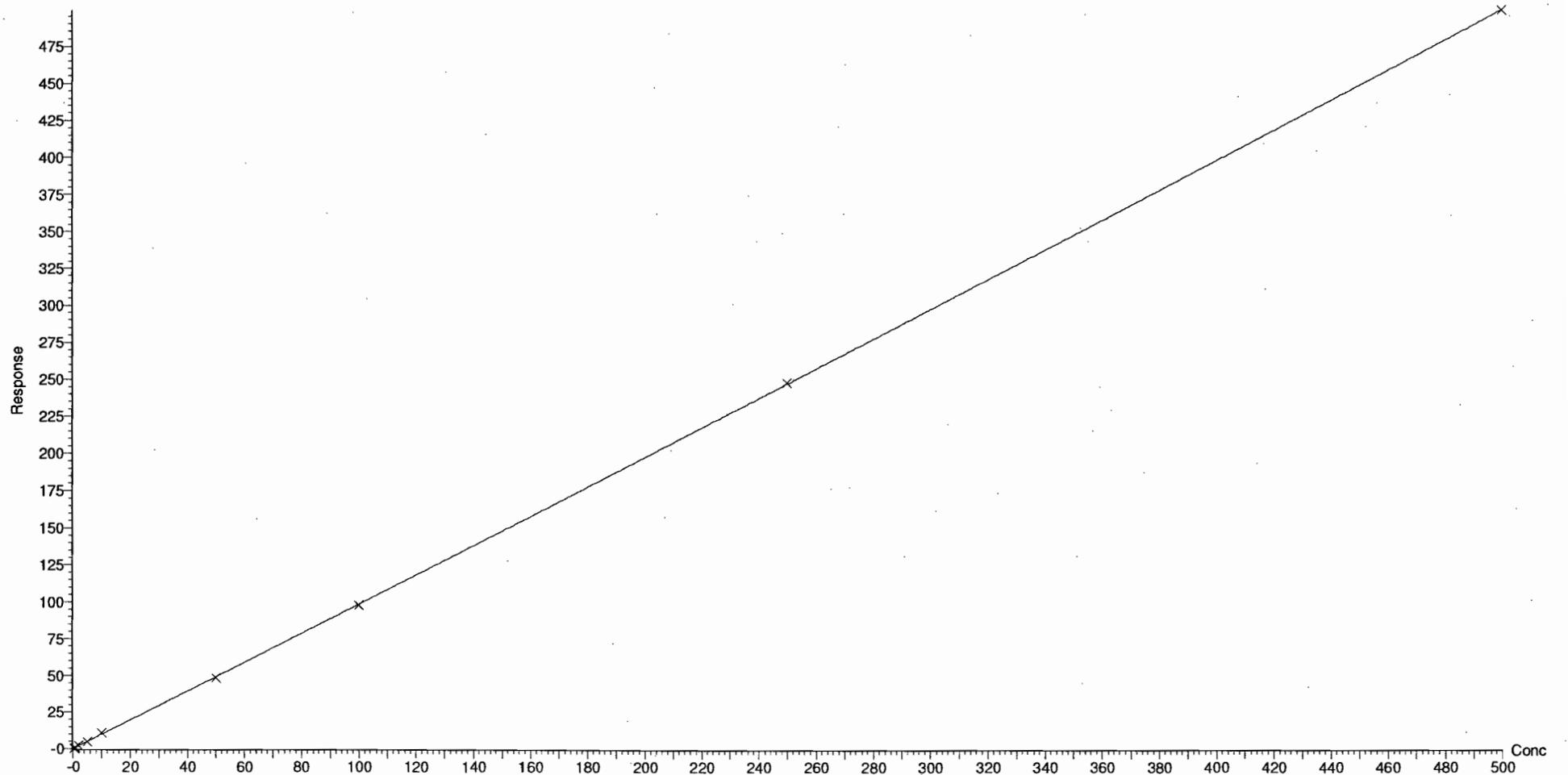
Compound name: PFDS

Coefficient of Determination: $R^2 = 0.999807$

Calibration curve: $3.73793e-005 * x^2 + 0.97975 * x + 0.0349328$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

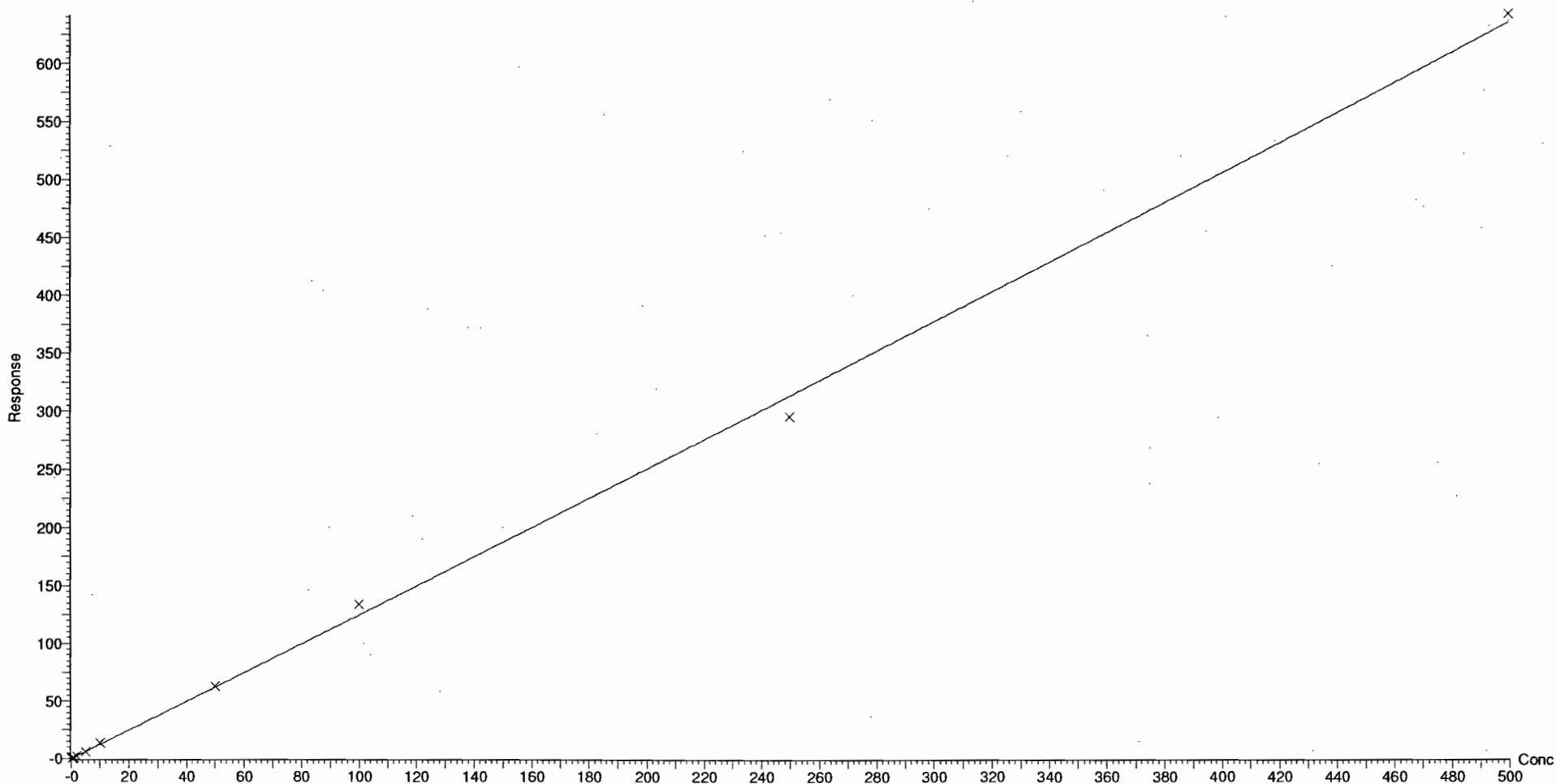
Compound name: PFDoA

Coefficient of Determination: $R^2 = 0.998288$

Calibration curve: $6.01615e-005 * x^2 + 1.23933 * x + 0.0755586$

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

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

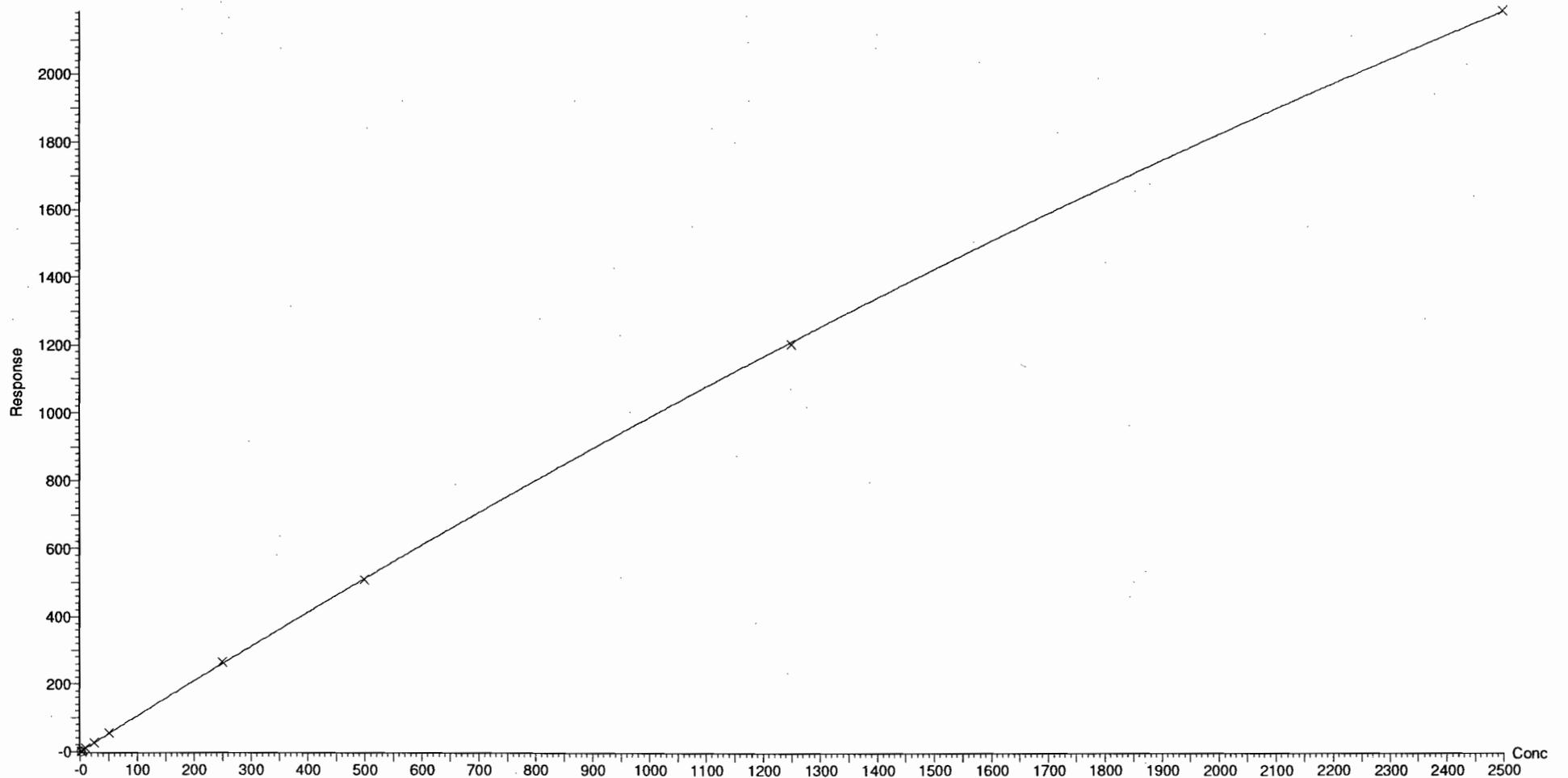


Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

Compound name: N-MeFOSA
Coefficient of Determination: $R^2 = 0.999873$
Calibration curve: $-7.67446e-005 * x^2 + 1.06457 * x + -0.290547$
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Include, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

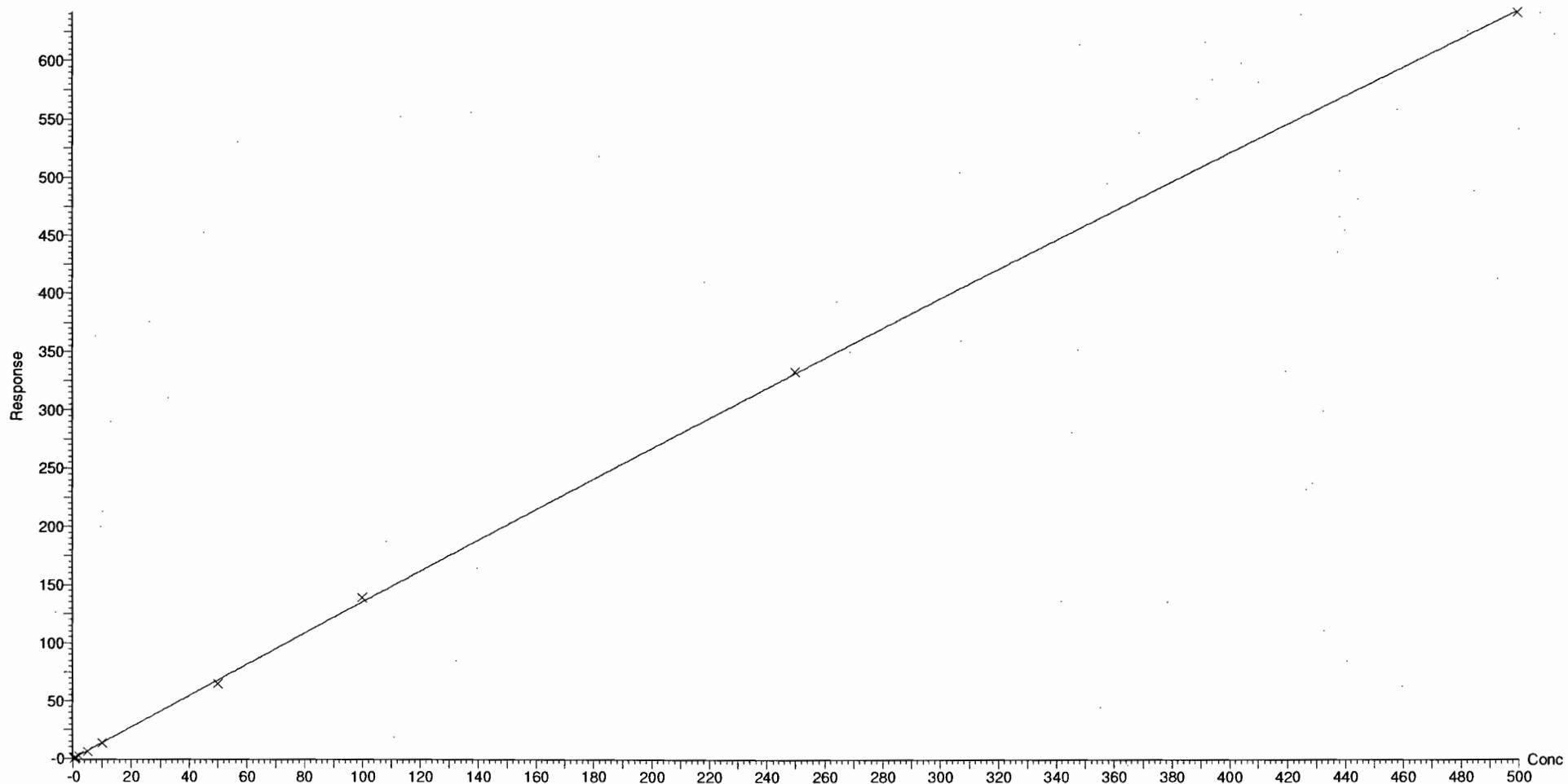
Compound name: PFTrDA

Coefficient of Determination: $R^2 = 0.999651$

Calibration curve: $-0.000168068 * x^2 + 1.36737 * x + -0.0524968$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

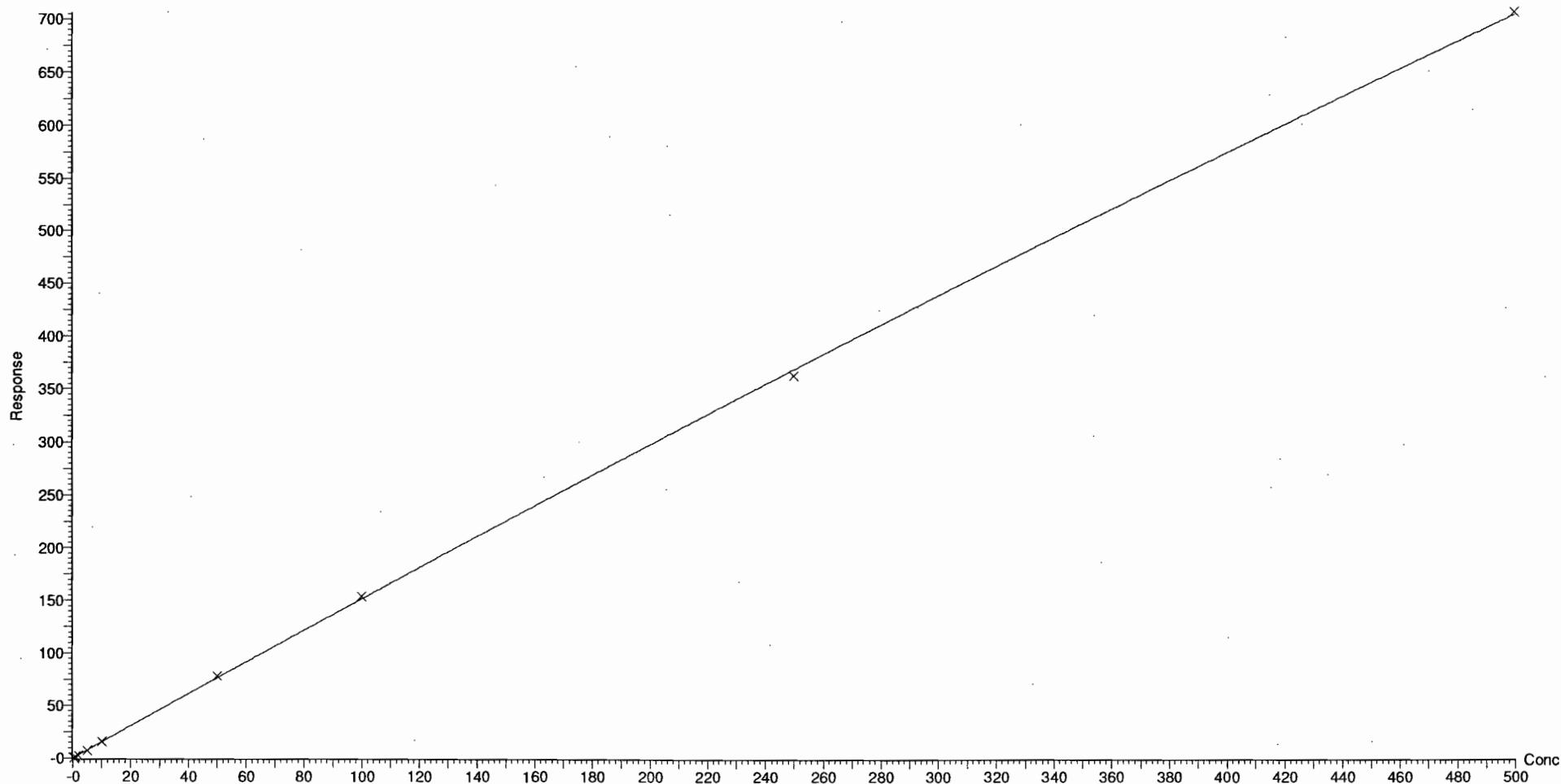
Compound name: PFTeDA

Coefficient of Determination: $R^2 = 0.999777$

Calibration curve: $-0.000266468 * x^2 + 1.54118 * x + -0.0144695$

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

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

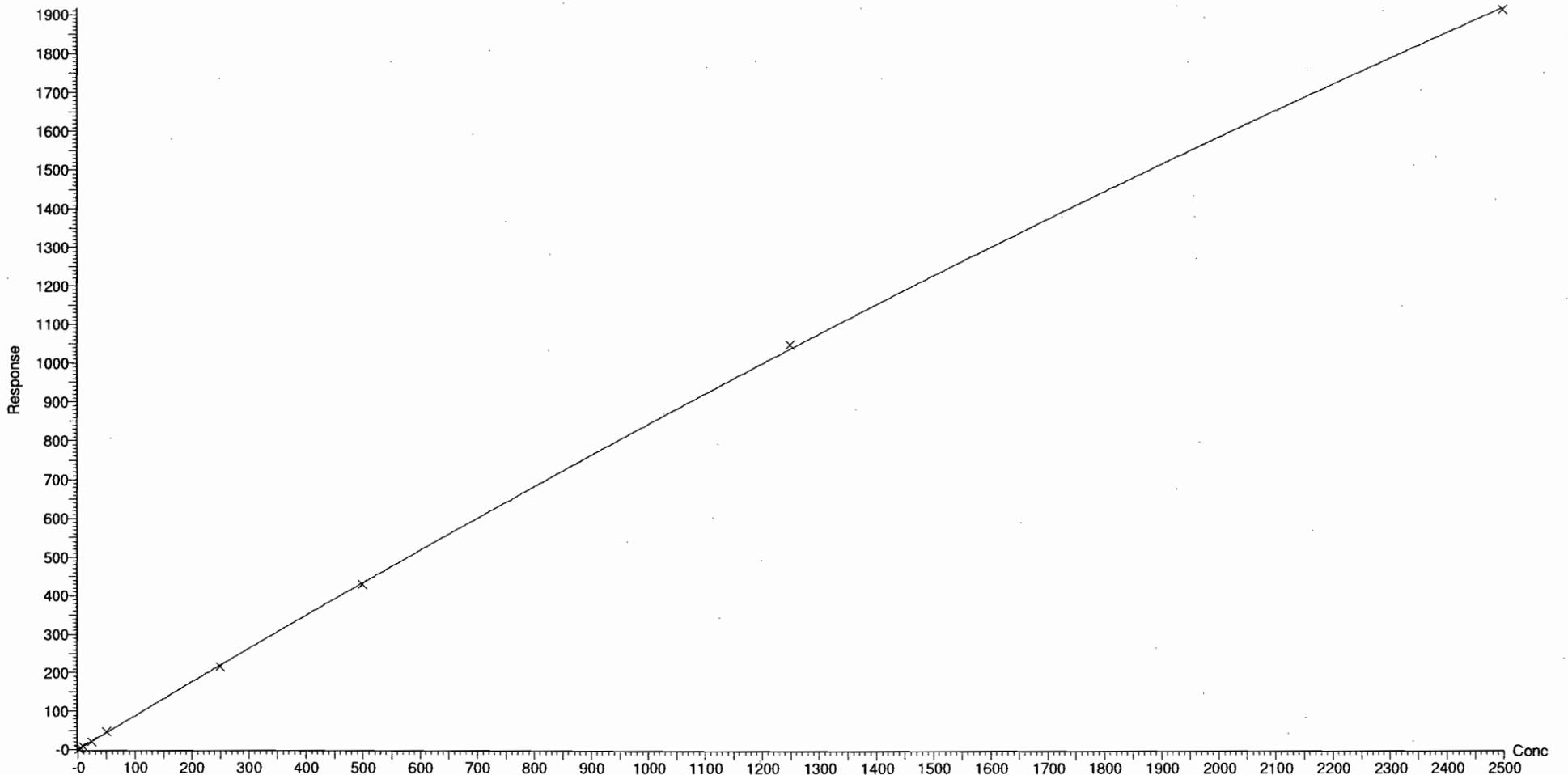


Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

Compound name: N-EtFOSA
Coefficient of Determination: $R^2 = 0.999877$
Calibration curve: $-5.11801 \times 10^{-5} * x^2 + 0.894711 * x + -0.201133$
Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

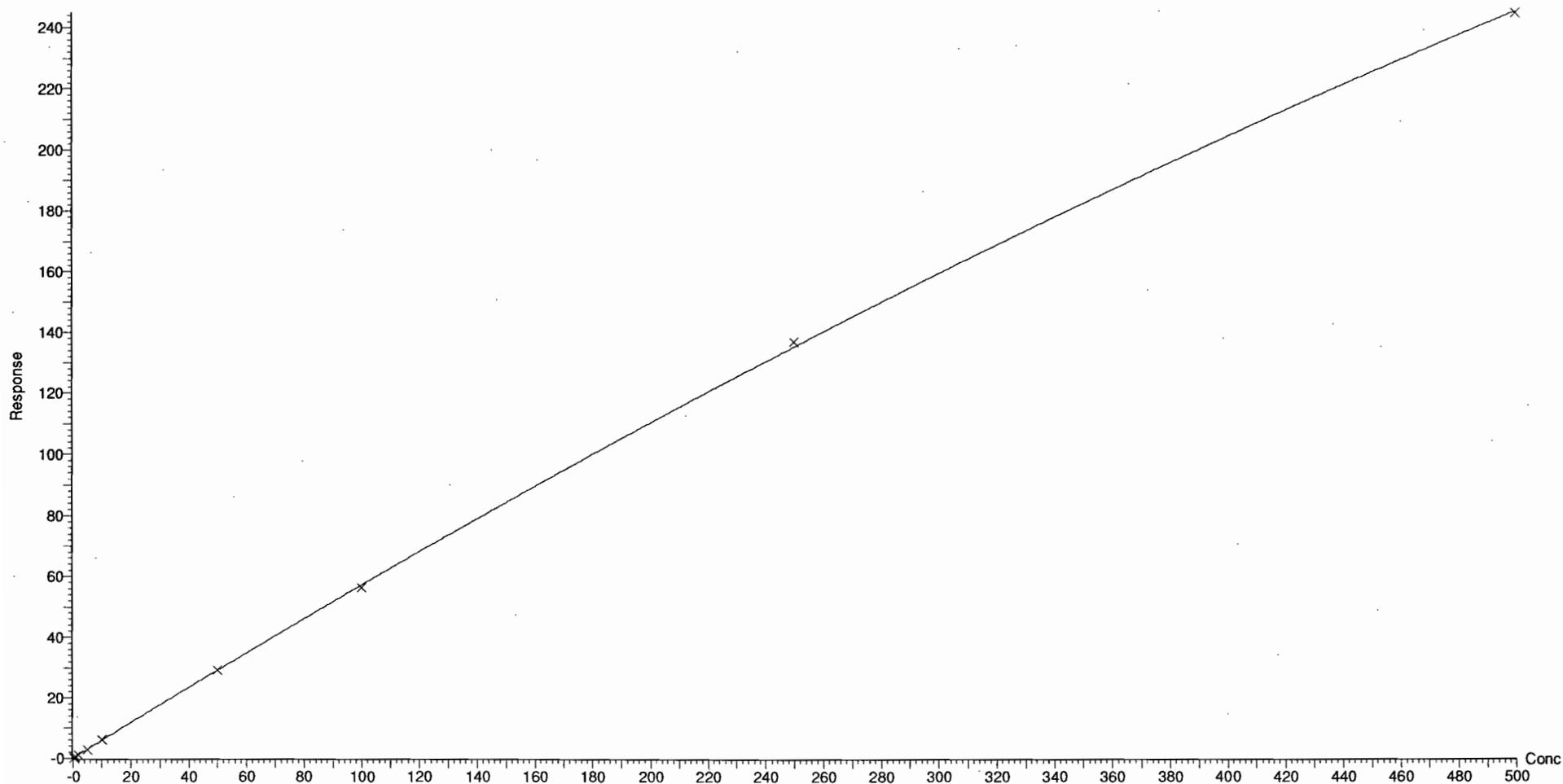
Compound name: PFHxDA

Coefficient of Determination: $R^2 = 0.999851$

Calibration curve: $-0.000203732 * x^2 + 0.591879 * x + 0.0308005$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

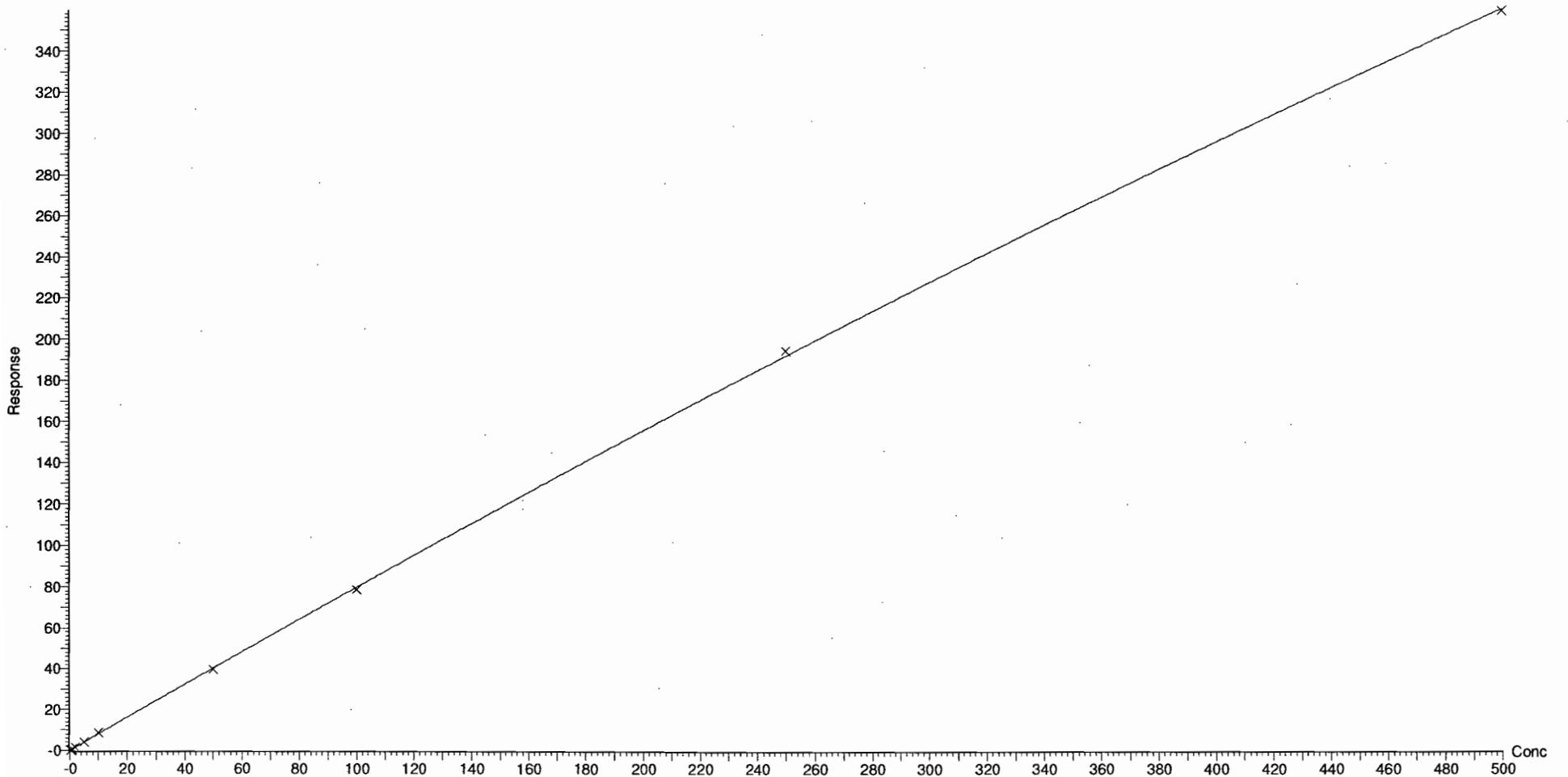
Compound name: PFODA

Coefficient of Determination: $R^2 = 0.999861$

Calibration curve: $-0.000193725 * x^2 + 0.816848 * x + -0.0115201$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

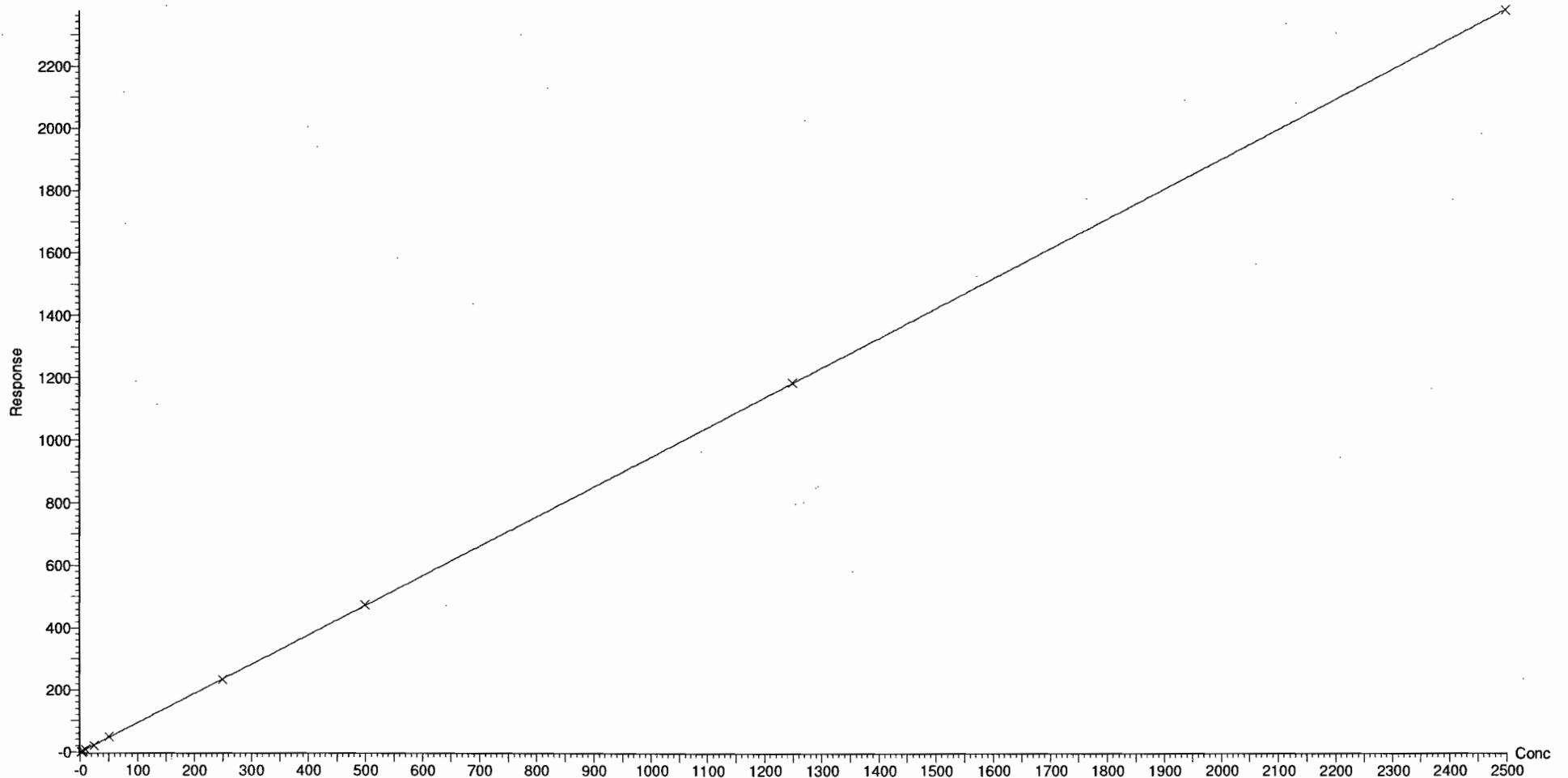
Compound name: N-MeFOSE

Coefficient of Determination: $R^2 = 0.999889$

Calibration curve: $2.8345e-006 * x^2 + 0.943779 * x + -0.37283$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-CRV.qld

Last Altered: Saturday, December 29, 2018 16:19:24 Pacific Standard Time

Printed: Saturday, December 29, 2018 17:21:08 Pacific Standard Time

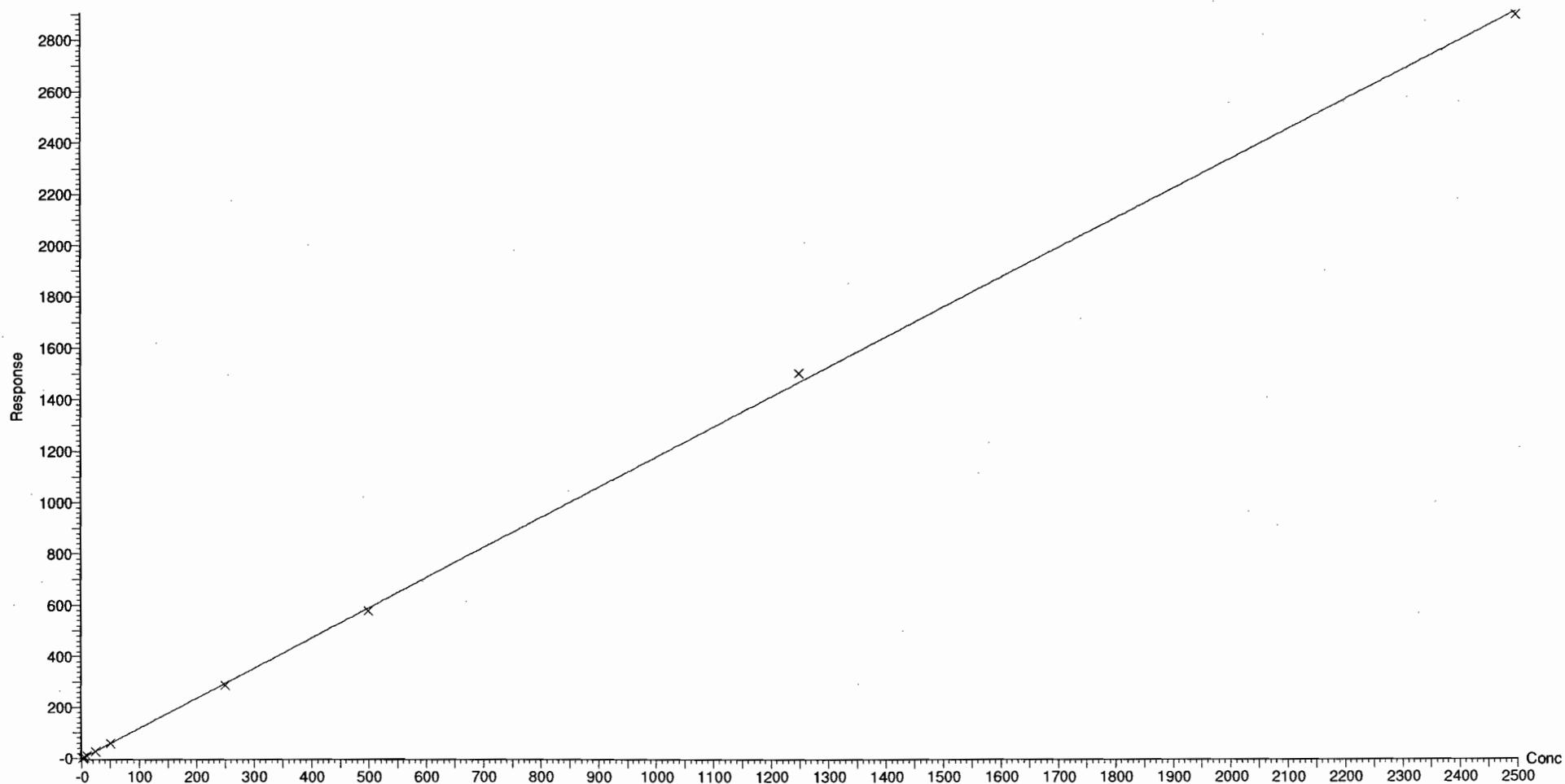
Compound name: N-EtFOSE

Coefficient of Determination: $R^2 = 0.999680$

Calibration curve: $-8.56872e-006 * x^2 + 1.1842 * x + -0.30516$

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

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



Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-ICV.qld

ICV

Last Altered: Saturday, December 29, 2018 16:27:01 Pacific Standard Time

Printed: Saturday, December 29, 2018 16:27:32 Pacific Standard Time

MJT
12/30/18

Name: 181229M2_13, Date: 29-Dec-2018, Time: 15:21:11, ID: ICV181229M2-1 PFC ICV 18L2611, Description: PFC ICV 18L2611

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
1	1	PFBA	213.0 > 168.8	6796.458	7184.436	1.00	1.45	11.825	10.0	100.4	NO	
2	2	PFPeA	263.1 > 218.9	8596.958	10558.349	1.00	2.71	10.178	9.9	98.9	NO	
3	3	PFBS	299.0 > 79.7	2358.418	1604.526	1.00	3.03	18.373	8.9	89.2	NO	3.094
4	4	4:2 FTS	327.2 > 307.2	3445.436	4034.984	1.00	3.50	10.674	9.6	95.9	NO	1.731
5	5	PFHxA	313 > 269	15717.900	7719.946	1.00	3.59	10.180	10.3	102.5	NO	14.985
6	6	PFPeS	349.1 > 80.1	2045.969	1604.526	1.00	3.80	15.939	9.1	91.4	NO	1.811
7	36	13C3-PFBA	216.1 > 171.8	7184.436	9768.727	1.00	1.45	9.193	12.6	101.1	NO	
8	37	13C3-PFPeA	266. > 221.8	10558.349	21121.637	1.00	2.70	6.249	12.2	97.8	NO	
9	38	13C3-PFBS	302. > 98.8	1604.526	3225.476	1.00	3.03	6.218	12.5	100.0	NO	
10	39	13C2-4:2 FTS	329.2 > 308.9	4034.984	3225.476	1.00	3.50	15.637	11.9	95.4	NO	
11	40	13C2-PFHxA	315 > 270	7719.946	21121.637	1.00	3.59	4.569	4.8	96.5	NO	
12	38	13C3-PFBS	302. > 98.8	1604.526	3225.476	1.00	3.03	6.218	12.5	100.0	NO	
13	-1											
14	10	6:2 FTS	427.1 > 407	4308.673	3242.110	1.00	4.66	16.612	9.3	93.2	NO	2.795
15	7	PFHpA	363.0 > 318.9	12166.216	10137.035	1.00	4.22	15.002	10.2	101.6	NO	14.458
16	8	L-PFHxS	398.9 > 79.6	1892.791	1362.899	1.00	4.36	17.360	8.6	85.7	NO	1.806
17	11	L-PFOA	412.8 > 368.9	21067.828	17194.393	1.00	4.71	15.316	10.3	103.5	NO	3.180
18	13	PFHpS	449 > 80.0	2573.605	3449.732	1.00	4.82	9.325	11.0	109.9	NO	2.133
19	14	PFNA	463.0 > 418.8	17540.662	17282.725	1.00	5.15	12.687	10.1	100.8	NO	4.538
20	43	13C2-6:2 FTS	428.9 > 80.9	3242.110	3432.538	1.00	4.66	11.807	12.8	102.6	NO	
21	41	13C4-PFHpA	367.2 > 321.8	10137.035	21121.637	1.00	4.22	5.999	12.4	99.2	NO	
22	42	18O2-PFHxS	403.0 > 102.6	1362.899	3225.476	1.00	4.36	5.282	12.8	102.1	NO	
23	44	13C2-PFOA	414.9 > 369.7	17194.393	26763.592	1.00	4.71	8.031	11.8	94.8	NO	
24	47	13C8-PFOS	507.0 > 79.9	3449.732	3432.538	1.00	5.23	12.563	12.1	96.9	NO	
25	45	13C5-PFNA	468.2 > 422.9	17282.725	18979.674	1.00	5.15	11.382	12.0	96.0	NO	
26	-1											
27	15	PFOSA	497.9 > 77.9	4095.425	4617.025	1.00	5.19	11.088	9.9	99.1	NO	26.743
28	16	L-PFOS	498.9 > 79.9	2925.782	3449.732	1.00	5.23	10.601	9.7	96.7	NO	2.145
29	18	PFDA	513 > 468.8	19261.785	18775.344	1.00	5.52	12.824	10.3	103.4	NO	5.914
30	19	8:2 FTS	527 > 506.9	4554.101	3665.045	1.00	5.50	15.532	10.5	104.6	NO	2.474
31	20	PFNS	549.1 > 80.1	2049.350	3449.732	1.00	5.59	7.426	10.3	103.1	NO	1.944
32	21	L-MeFOSAA	570 > 419	9456.188	3878.073	1.00	5.67	30.480	11.3	113.1	NO	2.652
33	46	13C8-PFOSA	506.1 > 77.7	4617.025	23903.389	1.00	5.19	2.414	12.7	101.7	NO	
34	47	13C8-PFOS	507.0 > 79.9	3449.732	3432.538	1.00	5.23	12.563	12.1	96.9	NO	
35	48	13C2-PFDA	515.1 > 469.9	18775.344	19950.951	1.00	5.52	11.763	12.6	100.5	NO	
36	49	13C2-8:2 FTS	529.1 > 508.7	3665.045	3432.538	1.00	5.50	13.347	12.0	96.2	NO	

MJT
12/30/18

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-ICV.qld

Last Altered: Saturday, December 29, 2018 16:27:01 Pacific Standard Time
Printed: Saturday, December 29, 2018 16:27:32 Pacific Standard Time

(A) Compounds not present in ICV

Name: 181229M2_13, Date: 29-Dec-2018, Time: 15:21:11, ID: ICV181229M2-1 PFC ICV 18L2611, Description: PFC ICV 18L2611

	# Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc	%Rec	Recovery...	Ion Ratio	Ratio Out?
37	47 13C8-PFOS	507.0 > 79.9	3449.732	3432.538	1.00	5.23	12.563	12.1	96.9	NO		
38	50 d3-N-MeFOSAA	573.3 > 419	3878.073	23903.389	1.00	5.67	2.028	12.6	101.0	NO		
39	-1											
40	23 L-EtFOSAA	584.1 > 419	7943.156	5259.437	1.00	5.83	18.878	11.6	116.5	NO	1.446	NO
41	27 PFDoA	612.9 > 569.0	23123.875	22370.088	1.00	6.13	12.921	10.4	103.6	NO	9.099	NO
42	26 PFDS	598.8 > 79.9	2768.886	3449.732	1.00	5.89	10.033	10.2	102.0	NO	1.690	NO
43	25 PFUDa	563.0 > 518.9	18822.246	24338.422	1.00	5.85	9.667	9.6	96.1	NO	9.915	NO
44	28 N-MeFOSA	512.1 > 168.9		12795.311	1.00					(A)		
45	29 PFTrDA	662.9 > 618.9	22967.939	22370.088	1.00	6.37	12.834	9.4	94.4	NO	25.814	NO
46	52 d5-N-EtFOSAA	589.3 > 419	5259.437	23903.389	1.00	5.83	2.750	12.3	98.7	NO		
47	53 13C2-PFDoA	615.0 > 569.7	22370.088	19950.951	1.00	6.13	14.016	13.0	104.2	NO		
48	47 13C8-PFOS	507.0 > 79.9	3449.732	3432.538	1.00	5.23	12.563	12.1	96.9	NO		
49	51 13C2-PFUDa	565 > 519.8	24338.422	23903.389	1.00	5.85	12.727	12.5	99.7	NO		
50	54 d3-N-MeFOSA	515.2 > 168.9	12795.311	23903.389	1.00	6.04	6.691	140.9	94.0	NO		
51	53 13C2-PFDoA	615.0 > 569.7	22370.088	19950.951	1.00	6.13	14.016	13.0	104.2	NO		
52	-1											
53	30 PFTeDA	713.0 > 669.0	20366.604	15698.458	1.00	6.58	16.217	10.6	105.5	NO	13.418	NO
54	31 N-EtFOSA	526.1 > 168.9		20058.920	1.00					(A)		
55	32 PFHxDA	813.1 > 768.6		8557.318	1.00					NO		
56	33 PFODA	913.1 > 868.8		8557.318	1.00					NO		
57	34 N-MeFOSE	616.1 > 58.9		10582.444	1.00					NO		
58	35 N-EtFOSE	630.1 > 58.9		10218.796	1.00					NO		
59	55 13C2-PFTeDA	715.1 > 669.7	15698.458	23903.389	1.00	6.58	8.209	12.1	97.0	NO		
60	56 d5-N-ETFOSA	531.1 > 168.9	20058.920	23903.389	1.00	6.47	10.490	146.6	97.7	NO		
61	57 13C2-PFHxDA	815 > 769.7	8557.318	23903.389	1.00	6.89	4.475	4.9	98.8	NO		
62	57 13C2-PFHxDA	815 > 769.7	8557.318	23903.389	1.00	6.89	4.475	4.9	98.8	NO		
63	58 d7-N-MeFOSE	623.1 > 58.9	10582.444	23903.389	1.00	6.67	5.534	141.4	94.3	NO		
64	59 d9-N-EtFOSE	639.2 > 58.8	10218.796	23903.389	1.00	6.82	5.344	139.8	93.2	NO		
65	-1											
66	60 13C4-PFBA	217. > 172	9768.727	9768.727	1.00	1.45	12.500	12.5	100.0	NO		
67	61 13C5-PFHxA	318 > 272.9	21121.637	21121.637	1.00	3.59	12.500	12.5	100.0	NO		
68	62 13C3-PFHxS	401.8 > 79.9	3225.476	3225.476	1.00	4.36	12.500	12.5	100.0	NO		
69	63 13C8-PFOA	420.9 > 376	26763.592	26763.592	1.00	4.71	12.500	12.5	100.0	NO		
70	64 13C9-PFNA	472.2 > 426.9	18979.674	18979.674	1.00	5.15	12.500	12.5	100.0	NO		
71	65 13C4-PFOS	503 > 79.9	3432.538	3432.538	1.00	5.23	12.500	12.5	100.0	NO		
72	66 13C6-PFDA	519.1 > 473.7	19950.951	19950.951	1.00	5.52	12.500	12.5	100.0	NO		

Dataset: F:\Projects\PFAS.PRO\Results\181229M2\181229M2-ICV.qld

Last Altered: Saturday, December 29, 2018 16:27:01 Pacific Standard Time

Printed: Saturday, December 29, 2018 16:27:32 Pacific Standard Time

Name: 181229M2_13, Date: 29-Dec-2018, Time: 15:21:11, ID: ICV181229M2-1 PFC ICV 18L2611, Description: PFC ICV 18L2611

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67 13C7-PFUDa	570.1 > 524.8	23903.389	23903.389	1.00	5.85	12.500	12.5	100.0		NO	

Dataset: Untitled

Last Altered: Wednesday, January 02, 2019 07:51:01 Pacific Standard Time

Printed: Wednesday, January 02, 2019 07:51:05 Pacific Standard Time

Method: F:\Projects\PFAS.PRO\MethDB\PFAS_FULL_80C_123118.mdb 02 Jan 2019 07:48:45

Calibration: F:\Projects\PFAS.PRO\CurveDB\C18_VAL-PFAS_Q4_12-29-18.cdb 29 Dec 2018 16:11:46

Compound name: PFBA

#	Name	ID	Acq.Date	Acq.Time
1	1 181231M1_1	IPA	31-Dec-18	10:02:41
2	2 181231M1_2	ST181231M1-1 PFC CS0 18L2603	31-Dec-18	10:13:16
3	3 181231M1_3	IPA	31-Dec-18	10:23:54
4	4 181231M1_4	B8L0157-MSD2 Matrix Spike Dup 0.11657	31-Dec-18	10:34:29
5	5 181231M1_5	1804115-01 REEPEF1195 0.11841	31-Dec-18	10:45:05
6	6 181231M1_6	1804115-02 REEPAR1195 0.11397	31-Dec-18	10:55:37
7	7 181231M1_7	1804115-03 REEPAR5086 0.11943	31-Dec-18	11:06:16
8	8 181231M1_8	1804115-04 REEPAC1195 0.11474	31-Dec-18	11:16:50
9	9 181231M1_9	1804115-06 REEPEF1201 0.11807	31-Dec-18	11:27:28
10	10 181231M1_10	1804115-07 REEPAR1201 0.11961	31-Dec-18	11:38:00
11	11 181231M1_11	1804115-08 REEPAC1201 0.11473	31-Dec-18	11:48:39
12	12 181231M1_12	1804115-09 REEPIN1201 0.11328	31-Dec-18	11:59:11
13	13 181231M1_13	1804115-10 REEPEF1200 0.11376	31-Dec-18	12:09:49
14	14 181231M1_14	1804115-11 REEPAR1200 0.11471	31-Dec-18	12:20:22
15	15 181231M1_15	IPA	31-Dec-18	12:31:00
16	16 181231M1_16	ST181231M1-2 PFC CS3 18L2606	31-Dec-18	12:41:34
17	17 181231M1_17	1804115-12 REEPAC1200 0.11754	31-Dec-18	12:52:15
18	18 181231M1_18	1804115-13 REEPIN1200 0.11773	31-Dec-18	13:02:51
19	19 181231M1_19	1804115-14 REEPIN5088 0.11834	31-Dec-18	13:13:23
20	20 181231M1_20	1804075-04 REEPDW1414 0.11451	31-Dec-18	13:26:07
21	21 181231M1_21	1804115-15 REEPEF1202 0.11843	31-Dec-18	13:36:41
22	22 181231M1_22	1804115-16 REEPAR1202 0.11966	31-Dec-18	13:47:20
23	23 181231M1_23	1804115-17 REEPAC1202 0.11518	31-Dec-18	13:57:59
24	24 181231M1_24	1804115-18 REEPAC5089 0.11488	31-Dec-18	14:08:31
25	25 181231M1_25	1804115-19 REEPIN1202 0.11737	31-Dec-18	14:19:10
26	26 181231M1_26	B8L0180-BLK1 Method Blank 0.125	31-Dec-18	14:29:43
27	27 181231M1_27	B8L0180-BS1 OPR 0.125	31-Dec-18	14:40:21
28	28 181231M1_28	B8L0180-MS1 Matrix Spike 0.10414	31-Dec-18	14:50:53
29	29 181231M1_29	B8L0180-MSD1 Matrix Spike Dup 0.11309	31-Dec-18	15:01:31
30	30 181231M1_30	1804060-01 BP-TT-AOC22-MW04-20181210 0.10904	31-Dec-18	15:12:04
31	31 181231M1_31	IPA	31-Dec-18	15:22:42
32	32 181231M1_32	ST181231M1-3 PFC CS3 18L2606	31-Dec-18	15:33:16

Dataset: Untitled

Last Altered: Wednesday, January 02, 2019 07:51:01 Pacific Standard Time
 Printed: Wednesday, January 02, 2019 07:51:05 Pacific Standard Time

Compound name: PFBA

#	Name	ID	Acq.Date	Acq.Time
33	33 181231M1_33	1804060-02 BP-FW-MW01-20181210 0.11521	31-Dec-18	15:43:46
34	34 181231M1_34	1804060-03 BPS1-TT-MW308S-20181210 0.11735	31-Dec-18	15:54:24
35	35 181231M1_35	1804060-04 BP-FW-MW02-2081211 0.11344	31-Dec-18	16:05:03
36	36 181231M1_36	1804060-05 BP-FW-MW03-20181211 0.11657	31-Dec-18	16:15:41
37	37 181231M1_37	1804060-06 BPS1-TT-MW307D-20181211 0.11368	31-Dec-18	16:26:14
38	38 181231M1_38	1804060-07 BP-Dup06-20181211 0.11094	31-Dec-18	16:36:53
39	39 181231M1_39	1804116-01 G76-20181213 0.10513	31-Dec-18	16:47:27
40	40 181231M1_40	1804116-02 FB-20181213 0.11471	31-Dec-18	16:58:05
41	41 181231M1_41	1804144-01 REEPDW1417 0.11326	31-Dec-18	17:08:38
42	42 181231M1_42	1804144-02 REEPDW1418 0.11102	31-Dec-18	17:19:16
43	43 181231M1_43	1804144-03 REEPDW1419 0.11089	31-Dec-18	17:29:50
44	44 181231M1_44	IPA	31-Dec-18	17:40:19
45	45 181231M1_45	ST181231M1-4 PFC CS3 18L2606	31-Dec-18	17:50:58
46	46 181231M1_46	1804144-04 REEPDW1420 0.11339	31-Dec-18	18:01:30
47	47 181231M1_47	1804144-05 REEPDW590 0.11043	31-Dec-18	18:12:09
48	48 181231M1_48	B8L0144-BLK1 Method Blank 0.25	31-Dec-18	18:22:41
49	49 181231M1_49	B8L0144-BS1 OPR 0.25	31-Dec-18	18:33:20
50	50 181231M1_50	B8L0144-MS1 Matrix Spike 0.23194	31-Dec-18	18:43:53
51	51 181231M1_51	B8L0144-MSD1 Matrix Spike Dup 0.23493	31-Dec-18	18:54:31
52	52 181231M1_52	1804061-01 BP-TT-AOC22-MW10-FRB-20181208 0.11058	31-Dec-18	19:05:04
53	53 181231M1_53	1804061-02 BPS1-TT-MW3111-FRB-20181209 0.11084	31-Dec-18	19:15:42
54	54 181231M1_54	1804061-03 BP-TT-AOC22-MW04-FRB-20181210 0.11701	31-Dec-18	19:26:20
55	55 181231M1_55	1804061-04 BP-MH-SW4001-FRB-20181211 0.11792	31-Dec-18	19:36:53
56	56 181231M1_56	1804077-01 FT-PZ458I-20181211 0.2338	31-Dec-18	19:47:31
57	57 181231M1_57	1804077-02 FT-PZ460I-20181211 0.23758	31-Dec-18	19:58:04
58	58 181231M1_58	1804077-03 FT-PZ461I-20181211 0.23672	31-Dec-18	20:08:42
59	59 181231M1_59	1804077-04 FT-PZ464S-20181211 0.23223	31-Dec-18	20:19:20
60	60 181231M1_60	IPA	31-Dec-18	20:29:53
61	61 181231M1_61	ST181231M1-5 PFC CS3 18L2606	31-Dec-18	20:40:31
62	62 181231M1_62	1804077-05 DUP01-20181211 0.24868	31-Dec-18	20:51:04
63	63 181231M1_63	1804077-06 FT-PZ464S-FRB-20181211 0.25357	31-Dec-18	21:01:42
64	64 181231M1_64	B8L0194-BLK1 Method Blank 0.125	31-Dec-18	21:12:14
65	65 181231M1_65	B8L0194-BS1 OPR 0.125	31-Dec-18	21:22:53
66	66 181231M1_66	1804053-01RE1 Dover Wastewater Facility Eff. After	31-Dec-18	21:33:26
67	67 181231M1_67	B8L0152-BLK1 Method Blank 0.25	31-Dec-18	21:44:05
68	68 181231M1_68	B8L0152-BS1 OPR 0.25	31-Dec-18	21:54:38

Dataset: Untitled

Last Altered: Wednesday, January 02, 2019 07:51:01 Pacific Standard Time

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Compound name: PFBA

#	Name	ID	Acq.Date	Acq.Time
69	69 181231M1_69	1804014-01 Water 1 0.23945	31-Dec-18	22:05:16
70	70 181231M1_70	1804081-01 1812361-01A 0.24239	31-Dec-18	22:15:49
71	71 181231M1_71	1804081-02 1812361-02A 0.23098	31-Dec-18	22:26:28
72	72 181231M1_72	1804082-01 1812362-01A 0.23932	31-Dec-18	22:37:06
73	73 181231M1_73	1804082-02 1812362-02A 0.24321	31-Dec-18	22:47:39
74	74 181231M1_74	1804101-01 GSP-SSN-GRIFFIN 0.11636	31-Dec-18	22:58:17
75	75 181231M1_75	1804103-01 MW-2 0.11672	31-Dec-18	23:08:51
76	76 181231M1_76	IPA	31-Dec-18	23:19:29
77	77 181231M1_77	ST181231M1-6 PFC CS3 18L2606	31-Dec-18	23:30:02
78	78 181231M1_78	1804103-02 MW-3 0.10764	31-Dec-18	23:40:42
79	79 181231M1_79	1804103-03 Field Blank 0.1192	31-Dec-18	23:51:18
80	80 181231M1_80	1804105-01 DPH-IRELAND 0.11493	01-Jan-19	00:01:52
81	81 181231M1_81	1804105-02 DPH #1 0.11361	01-Jan-19	00:12:30
82	82 181231M1_82	1804106-01 DPH-IRELAND 0.11617	01-Jan-19	00:23:03
83	83 181231M1_83	1804108-01 RAW-IRELAND 0.11973	01-Jan-19	00:33:42
84	84 181231M1_84	1804108-02 RAW-DUPLICATE 0.11546	01-Jan-19	00:44:15
85	85 181231M1_85	1804133-01 Equip. Blank 0.11471	01-Jan-19	00:54:53
86	86 181231M1_86	1804133-02 Trip Blank 0.11426	01-Jan-19	01:05:25
87	87 181231M1_87	1804133-03 BA1 0.1119	01-Jan-19	01:16:04
88	88 181231M1_88	1804133-04 BA2 0.10501	01-Jan-19	01:26:42
89	89 181231M1_89	1804133-05 MW3 0.11148	01-Jan-19	01:37:16
90	90 181231M1_90	B8L0179-BLK1 Method Blank 0.25	01-Jan-19	01:47:54
91	91 181231M1_91	B8L0179-BS1 OPR 0.25	01-Jan-19	01:58:26
92	92 181231M1_92	1804124-01 TB-121118 0.23927	01-Jan-19	02:09:05
93	93 181231M1_93	IPA	01-Jan-19	02:19:38
94	94 181231M1_94	ST181231M1-7 PFC CS3 18L2606	01-Jan-19	02:30:16
95	95 181231M1_95	1804124-02 FB-121318 0.24038	01-Jan-19	02:40:48
96	96 181231M1_96	1804124-03 EB-121318 0.24344	01-Jan-19	02:51:27
97	97 181231M1_97	1804124-04 WB-1218 0.24178	01-Jan-19	03:01:59
98	98 181231M1_98	1804124-05 MW-5 0.23095	01-Jan-19	03:12:37
99	99 181231M1_99	1804124-06 PZ-1C 0.23226	01-Jan-19	03:23:10
100	1... 181231M1_100	1804124-07 MW-5 0.2203	01-Jan-19	03:33:49
101	1... 181231M1_101	1804124-08 EW-2 0.22937	01-Jan-19	03:44:22
102	1... 181231M1_102	1804124-09 PZ-2R 0.23734	01-Jan-19	03:55:00
103	1... 181231M1_103	1804141-03 CL01DR31812131350SK 0.2233	01-Jan-19	04:05:33
104	1... 181231M1_104	1804141-04 CL01SW31812131425SK 0.23048	01-Jan-19	04:16:11

Dataset: Untitled

Last Altered: Wednesday, January 02, 2019 07:51:01 Pacific Standard Time
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Compound name: PFBA

#	Name	ID	Acq.Date	Acq.Time
105	1... 181231M1_105	IPA	01-Jan-19	04:26:43
106	1... 181231M1_106	ST181231M1-8 PFC CS3 18L2606	01-Jan-19	04:37:22
107	1... 181231M1_107	1804141-05 FB1812131440LEM 0.22972	01-Jan-19	04:47:56
108	1... 181231M1_108	1804141-09 EB1812131600LEM 0.22901	01-Jan-19	04:58:34
109	1... 181231M1_109	1804141-10 CL01MW11812140955LEM 0.23476	01-Jan-19	05:09:06
110	1... 181231M1_110	1804141-11 CL01MW21812141100LEM 0.23518	01-Jan-19	05:19:44
111	1... 181231M1_111	1804141-12 FD1812141115LEM 0.23646	01-Jan-19	05:30:18
112	1... 181231M1_112	1804141-13 CL01MW41812141220LEM 0.22953	01-Jan-19	05:40:56
113	1... 181231M1_113	1804141-14 CL01MW31812141325LEM 0.24134	01-Jan-19	05:51:29
114	1... 181231M1_114	1804142-05 CL01DR21812131035SSK 0.22294	01-Jan-19	06:02:07
115	1... 181231M1_115	1804142-10 CL01SW51812131235SK 0.2163	01-Jan-19	06:12:40
116	1... 181231M1_116	1803583-05@50X BS1810310830GC-A 0.12089	01-Jan-19	06:23:18
117	1... 181231M1_117	IPA	01-Jan-19	06:33:50
118	1... 181231M1_118	B8L0208-BLK1 Method Blank 0.125	01-Jan-19	06:44:29
119	1... 181231M1_119	B8L0208-BS1 OPR 0.125	01-Jan-19	06:54:59
120	1... 181231M1_120	1804132-01RE1 Cooling Tower Blowdown 0.10964	01-Jan-19	07:05:38
121	1... 181231M1_121	1804132-02RE1 Pump Station 12 0.11289	01-Jan-19	07:16:11
122	1... 181231M1_122	IPA	01-Jan-19	07:26:49
123	1... 181231M1_123	ST181231M1-9 PFC CS3 18L2606	01-Jan-19	07:37:21
124	1... 181231M1_124	1804132-03RE1 Boiler Dup 0.11539	01-Jan-19	07:48:00
125	1... 181231M1_125	1804132-04RE1 Boiler Blow Down 0.11329	01-Jan-19	07:58:32
126	1... 181231M1_126	1804132-05RE1 Inlet 0.11744	01-Jan-19	08:09:10
127	1... 181231M1_127	1804132-06RE1 Cooling Tower Dup 0.11207	01-Jan-19	08:19:42
128	1... 181231M1_128	1804132-07RE1 Field Blank 0.1158	01-Jan-19	08:30:21
129	1... 181231M1_129	1804169-01 RAW-IRELAND 0.11355	01-Jan-19	08:40:53
130	1... 181231M1_130	1804169-02 GAC-HIGH-IRELAND 0.11795	01-Jan-19	08:51:32
131	1... 181231M1_131	1804169-03 1X-HIGH-IRELAND 0.11379	01-Jan-19	09:02:04
132	1... 181231M1_132	1804171-01 S-1 0.11171	01-Jan-19	09:12:42
133	1... 181231M1_133	1804171-02 S-2 0.11547	01-Jan-19	09:23:15
134	1... 181231M1_134	1804171-03 S-3 0.11757	01-Jan-19	09:33:54
135	1... 181231M1_135	IPA	01-Jan-19	09:44:32
136	1... 181231M1_136	ST181231M1-10 PFC CS3 18L2606	01-Jan-19	09:55:05

Dataset: F:\Projects\PFAS.PRO\Results\181231M1\181231M1-45.qld

Last Altered: Wednesday, January 02, 2019 08:07:00 Pacific Standard Time

Printed: Wednesday, January 02, 2019 08:07:03 Pacific Standard Time

Name: 181231M1_45, Date: 31-Dec-2018, Time: 17:50:58, ID: ST181231M1-4 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery...	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	5482.832	5797.271	1.00	1.32	11.822	10.0	100.4	NO		
2	2 PFPeA	263.1 > 218.9	8359.353	9992.146	1.00	2.58	10.457	10.2	101.6	NO		
3	3 PFBS	299.0 > 79.7	2493.114	1414.998	1.00	2.91	22.024	10.7	106.8	NO	3.169	NO
4	4 4:2 FTS	327.2>307.2	3535.987	3960.798	1.00	3.40	11.159	10.0	100.3	NO	1.796	NO
5	5 PFHxA	313 > 269	14797.602	7282.850	1.00	3.48	10.159	10.2	102.3	NO	14.071	NO
6	6 PFPeS	349.1>80.1	1922.729	1414.998	1.00	3.70	16.985	9.7	97.2	NO	1.659	NO
7	36 13C3-PFBA	216.1 > 171.8	5797.271	7487.160	1.00	1.33	9.679	13.3	106.5	NO		
8	37 13C3-PFPeA	266. > 221.8	9992.146	19779.764	1.00	2.58	6.315	12.4	98.9	NO		
9	38 13C3-PFBS	302. > 98.8	1414.998	2922.698	1.00	2.91	6.052	12.2	97.3	NO		
10	39 13C2-4:2 FTS	329.2>308.9	3960.798	2922.698	1.00	3.40	16.940	12.9	103.4	NO		
11	40 13C2-PFHxA	315 > 270	7282.850	19779.764	1.00	3.49	4.602	4.9	97.2	NO		
12	38 13C3-PFBS	302. > 98.8	1414.998	2922.698	1.00	2.91	6.052	12.2	97.3	NO		
13	-1											
14	10 6:2 FTS	427.1 > 407	4512.272	3037.379	1.00	4.58	18.570	10.4	104.2	NO	3.030	NO
15	7 PFHpA	363.0 > 318.9	11008.230	9401.326	1.00	4.15	14.637	9.9	99.1	NO	13.363	NO
16	8 L-PFHxS	398.9 > 79.6	1974.940	1245.625	1.00	4.28	19.819	9.8	97.8	NO	1.793	NO
17	11 L-PFOA	412.8 > 368.9	20549.586	17727.439	1.00	4.63	14.490	9.8	97.9	NO	3.112	NO
18	13 PFHpS	449 > 80.0	2343.744	3118.468	1.00	4.74	9.395	11.1	110.7	NO	1.973	NO
19	14 PFNA	463.0 > 418.8	16553.273	16332.004	1.00	5.06	12.669	10.1	100.6	NO	4.436	NO
20	43 13C2-6:2 FTS	428.9>80.9	3037.379	3158.903	1.00	4.58	12.019	13.1	104.5	NO		
21	41 13C4-PFHpA	367.2 > 321.8	9401.326	19779.764	1.00	4.15	5.941	12.3	98.2	NO		
22	42 18O2-PFHxS	403.0 > 102.6	1245.625	2922.698	1.00	4.28	5.327	12.9	103.0	NO		
23	44 13C2-PFOA	414.9 > 369.7	17727.439	24085.984	1.00	4.63	9.200	13.6	108.6	NO		
24	47 13C8-PFOS	507.0 > 79.9	3118.468	3158.903	1.00	5.15	12.340	11.9	95.1	NO		
25	45 13C5-PFNA	468.2 > 422.9	16332.004	16768.844	1.00	5.06	12.174	12.8	102.6	NO		
26	-1											
27	15 PFOSA	497.9 > 77.9	4573.172	5250.269	1.00	5.10	10.888	9.7	97.3	NO	28.368	NO
28	16 L-PFOS	498.9 > 79.9	2800.115	3118.468	1.00	5.15	11.224	10.2	102.3	NO	2.017	NO
29	18 PFDA	513 > 468.8	19393.260	17567.658	1.00	5.45	13.799	11.1	111.3	NO	5.997	NO
30	19 8:2 FTS	527 > 506.9	4492.854	3556.193	1.00	5.41	15.792	10.6	106.4	NO	2.468	NO
31	20 PFNS	549.1 > 80.1	1903.654	3118.468	1.00	5.51	7.631	10.6	105.9	NO	1.694	NO
32	21 L-MeFOSAA	570 > 419	7583.406	3341.901	1.00	5.60	28.365	10.5	105.3	NO	2.316	NO
33	46 13C8-PFOSA	506.1 > 77.7	5250.269	23313.270	1.00	5.11	2.815	14.8	118.6	NO		
34	47 13C8-PFOS	507.0 > 79.9	3118.468	3158.903	1.00	5.15	12.340	11.9	95.1	NO		
35	48 13C2-PFDA	515.1 > 469.9	17567.658	18911.303	1.00	5.45	11.612	12.4	99.2	NO		
36	49 13C2-8:2 FTS	529.1 > 508.7	3556.193	3158.903	1.00	5.41	14.072	12.7	101.4	NO		

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Dataset: F:\Projects\PFAS.PRO\Results\181231M1\181231M1-45.qld

Last Altered: Wednesday, January 02, 2019 08:07:00 Pacific Standard Time

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Name: 181231M1_45, Date: 31-Dec-2018, Time: 17:50:58, ID: ST181231M1-4 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
37	47 13C8-PFOS	507.0 > 79.9	3118.468	3158.903	1.00	5.15	12.340	11.9	95.1	NO		
38	50 d3-N-MeFOSAA	573.3 > 419	3341.901	23313.270	1.00	5.59	1.792	11.2	89.2	NO		
39	-1											
40	23 L-EtFOSAA	584.1 > 419	6251.313	4393.817	1.00	5.76	17.784	11.0	109.8	NO	1.287	NO
41	27 PFDoA	612.9 > 569.0	20604.414	22069.711	1.00	6.06	11.670	9.4	93.5	NO	8.735	NO
42	26 PFDS	598.8 > 79.9	2699.401	3118.468	1.00	5.82	10.820	11.0	110.0	NO	1.653	NO
43	25 PFUdA	563.0 > 518.9	18860.148	22666.459	1.00	5.77	10.401	10.3	103.4	NO	11.121	NO
44	28 N-MeFOSA	512.1 > 168.9	4774.078	13277.920	1.00	5.94	53.933	51.1	102.2	NO	1.543	NO
45	29 PFTrDA	662.9 > 618.9	23010.029	22069.711	1.00	6.30	13.033	9.6	95.8	NO	27.844	NO
46	52 d5-N-EtFOSAA	589.3 > 419	4393.817	23313.270	1.00	5.75	2.356	10.6	84.6	NO		
47	53 13C2-PFDoA	615.0 > 569.7	22069.711	18911.303	1.00	6.06	14.588	13.6	108.5	NO		
48	47 13C8-PFOS	507.0 > 79.9	3118.468	3158.903	1.00	5.15	12.340	11.9	95.1	NO		
49	51 13C2-PFUdA	565 > 519.8	22666.459	23313.270	1.00	5.77	12.153	11.9	95.2	NO		
50	54 d3-N-MeFOSA	515.2 > 168.9	13277.920	23313.270	1.00	5.97	7.119	150.0	100.0	NO		
51	53 13C2-PFDoA	615.0 > 569.7	22069.711	18911.303	1.00	6.06	14.588	13.6	108.5	NO		
52	-1											
53	30 PFTeDA	713.0 > 669.0	17876.391	15145.299	1.00	6.52	14.754	9.6	96.0	NO	12.832	NO
54	31 N-EtFOSA	526.1 > 168.9	6001.964	20112.896	1.00	6.41	44.762	50.4	100.8	NO	1.612	NO
55	32 PFHxDA	813.1 > 768.6	11051.757	8439.724	1.00	6.84	6.547	11.1	110.5	NO	31.563	NO
56	33 PFOA	913.1 > 868.8	14949.572	8439.724	1.00	7.07	8.857	10.9	108.8	NO		
57	34 N-MeFOSE	616.1 > 58.9	3709.033	11489.585	1.00	6.68	48.423	51.7	103.4	NO		
58	35 N-EtFOSE	630.1 > 58.9	4454.690	11087.788	1.00	6.83	60.265	51.2	102.3	NO		
59	55 13C2-PFTeDA	715.1 > 669.7	15145.299	23313.270	1.00	6.52	8.121	12.0	95.9	NO		
60	56 d5-N-ETFOSA	531.1 > 168.9	20112.896	23313.270	1.00	6.42	10.784	150.7	100.5	NO		
61	57 13C2-PFHxDA	815 > 769.7	8439.724	23313.270	1.00	6.84	4.525	5.0	99.9	NO		
62	57 13C2-PFHxDA	815 > 769.7	8439.724	23313.270	1.00	6.84	4.525	5.0	99.9	NO		
63	58 d7-N-MeFOSE	623.1 > 58.9	11489.585	23313.270	1.00	6.67	6.160	157.4	105.0	NO		
64	59 d9-N-EtFOSE	639.2 > 58.8	11087.788	23313.270	1.00	6.82	5.945	155.6	103.7	NO		
65	-1											
66	60 13C4-PFBA	217. > 172	7487.160	7487.160	1.00	1.33	12.500	12.5	100.0	NO		
67	61 13C5-PFHxA	318 > 272.9	19779.764	19779.764	1.00	3.49	12.500	12.5	100.0	NO		
68	62 13C3-PFHxS	401.8 > 79.9	2922.698	2922.698	1.00	4.28	12.500	12.5	100.0	NO		
69	63 13C8-PFOA	420.9 > 376	24085.984	24085.984	1.00	4.63	12.500	12.5	100.0	NO		
70	64 13C9-PFNA	472.2 > 426.9	16768.844	16768.844	1.00	5.06	12.500	12.5	100.0	NO		
71	65 13C4-PFOS	503 > 79.9	3158.903	3158.903	1.00	5.15	12.500	12.5	100.0	NO		
72	66 13C6-PFDA	519.1 > 473.7	18911.303	18911.303	1.00	5.45	12.500	12.5	100.0	NO		

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Name: 181231M1_45, Date: 31-Dec-2018, Time: 17:50:58, ID: ST181231M1-4 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67 13C7-PFUdA	570.1 > 524.8	23313.270	23313.270	1.00	5.77	12.500	12.5	100.0		NO	

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Name: 181231M1_61, Date: 31-Dec-2018, Time: 20:40:31, ID: ST181231M1-5 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	7173.811	7778.825	1.00	1.32	11.528	9.8	97.9	NO		
2	2 PFPeA	263.1 > 218.9	7738.219	9276.839	1.00	2.58	10.427	10.1	101.3	NO		
3	3 PFBS	299.0 > 79.7	2270.609	1317.634	1.00	2.91	21.541	10.4	104.4	NO	3.067	NO
4	4 4:2 FTS	327.2>307.2	3220.047	3528.254	1.00	3.40	11.408	10.3	102.6	NO	1.713	NO
5	5 PFHxA	313 > 269	13583.762	6434.209	1.00	3.49	10.556	10.6	106.3	NO	15.703	NO
6	6 PFPeS	349.1>80.1	1760.051	1317.634	1.00	3.71	16.697	9.6	95.6	NO	1.618	NO
7	36 13C3-PFBA	216.1 > 171.8	7778.825	9963.428	1.00	1.33	9.759	13.4	107.4	NO		
8	37 13C3-PFPeA	266. > 221.8	9276.839	18203.420	1.00	2.58	6.370	12.5	99.7	NO		
9	38 13C3-PFBS	302. > 98.8	1317.634	2661.344	1.00	2.91	6.189	12.4	99.5	NO		
10	39 13C2-4:2 FTS	329.2>308.9	3528.254	2661.344	1.00	3.40	16.572	12.6	101.1	NO		
11	40 13C2-PFHxA	315 > 270	6434.209	18203.420	1.00	3.49	4.418	4.7	93.3	NO		
12	38 13C3-PFBS	302. > 98.8	1317.634	2661.344	1.00	2.91	6.189	12.4	99.5	NO		
13	-1											
14	10 6:2 FTS	427.1 > 407	4322.226	2910.479	1.00	4.58	18.563	10.4	104.2	NO	2.997	NO
15	7 PFHpA	363.0 > 318.9	10243.688	8700.550	1.00	4.15	14.717	10.0	99.7	NO	14.264	NO
16	8 L-PFHxS	398.9 > 79.6	1897.047	1153.551	1.00	4.28	20.557	10.1	101.5	NO	1.928	NO
17	11 L-PFOA	412.8 > 368.9	18654.658	16032.343	1.00	4.63	14.545	9.8	98.3	NO	3.170	NO
18	13 PFHpS	449 > 80.0	2128.385	3234.567	1.00	4.74	8.225	9.7	97.0	NO	2.014	NO
19	14 PFNA	463.0 > 418.8	15927.562	15148.084	1.00	5.06	13.143	10.4	104.4	NO	4.819	NO
20	43 13C2-6:2 FTS	428.9>80.9	2910.479	2797.771	1.00	4.58	13.004	14.1	113.0	NO		
21	41 13C4-PFHpA	367.2 > 321.8	8700.550	18203.420	1.00	4.15	5.975	12.3	98.8	NO		
22	42 18O2-PFHxS	403.0 > 102.6	1153.551	2661.344	1.00	4.28	5.418	13.1	104.8	NO		
23	44 13C2-PFOA	414.9 > 369.7	16032.343	21610.016	1.00	4.63	9.274	13.7	109.4	NO		
24	47 13C8-PFOS	507.0 > 79.9	3234.567	2797.771	1.00	5.15	14.452	13.9	111.4	NO		
25	45 13C5-PFNA	468.2 > 422.9	15148.084	15943.935	1.00	5.06	11.876	12.5	100.1	NO		
26	-1											
27	15 PFOSA	497.9 > 77.9	4573.478	4670.050	1.00	5.10	12.242	10.9	109.4	NO	33.204	NO
28	16 L-PFOS	498.9 > 79.9	2671.794	3234.567	1.00	5.15	10.325	9.4	94.2	NO	2.200	NO
29	18 PFDA	513 > 468.8	17009.395	16073.446	1.00	5.44	13.228	10.7	106.7	NO	5.808	NO
30	19 8:2 FTS	527 > 506.9	4125.306	3231.533	1.00	5.41	15.957	10.8	107.6	NO	2.671	NO
31	20 PFNS	549.1 > 80.1	1696.837	3234.567	1.00	5.51	6.557	9.1	91.1	NO	1.613	NO
32	21 L-MeFOSAA	570 > 419	7101.311	3017.699	1.00	5.59	29.415	10.9	109.2	NO	2.385	NO
33	46 13C8-PFOSA	506.1 > 77.7	4670.050	19749.115	1.00	5.10	2.956	15.6	124.6	NO		
34	47 13C8-PFOS	507.0 > 79.9	3234.567	2797.771	1.00	5.15	14.452	13.9	111.4	NO		
35	48 13C2-PFDA	515.1 > 469.9	16073.446	17280.855	1.00	5.44	11.627	12.4	99.3	NO		
36	49 13C2-8:2 FTS	529.1 > 508.7	3231.533	2797.771	1.00	5.41	14.438	13.0	104.1	NO		

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Name: 181231M1_61, Date: 31-Dec-2018, Time: 20:40:31, ID: ST181231M1-5 PFC CS3 18L2606, Description: PFC CS3 18L2606

	# Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery...	Ion Ratio	Ratio Out?
37	47 13C8-PFOS	507.0 > 79.9	3234.567	2797.771	1.00	5.15	14.452	13.9	111.4	NO		
38	50 d3-N-MeFOSAA	573.3 > 419	3017.699	19749.115	1.00	5.59	1.910	11.9	95.1	NO		
39	-1											
40	23 L-EtFOSAA	584.1 > 419	6234.832	3945.828	1.00	5.75	19.751	12.2	121.8	NO	1.423	NO
41	27 PFDoA	612.9 > 569.0	19668.572	18663.984	1.00	6.05	13.173	10.6	105.6	NO	8.980	NO
42	26 PFDS	598.8 > 79.9	2729.937	3234.567	1.00	5.81	10.550	10.7	107.3	NO	1.827	NO
43	25 PFUdA	563.0 > 518.9	17231.369	20294.508	1.00	5.77	10.613	10.6	105.5	NO	10.242	NO
44	28 N-MeFOSA	512.1 > 168.9	4486.616	11798.451	1.00	5.93	57.041	54.1	108.1	NO	1.597	NO
45	29 PFTrDA	662.9 > 618.9	20588.023	18663.984	1.00	6.30	13.789	10.1	101.4	NO	27.894	NO
46	52 d5-N-EtFOSAA	589.3 > 419	3945.828	19749.115	1.00	5.75	2.497	11.2	89.6	NO		
47	53 13C2-PFDoA	615.0 > 569.7	18663.984	17280.855	1.00	6.05	13.500	12.5	100.4	NO		
48	47 13C8-PFOS	507.0 > 79.9	3234.567	2797.771	1.00	5.15	14.452	13.9	111.4	NO		
49	51 13C2-PFUdA	565 > 519.8	20294.508	19749.115	1.00	5.77	12.845	12.6	100.6	NO		
50	54 d3-N-MeFOSA	515.2 > 168.9	11798.451	19749.115	1.00	5.96	7.468	157.3	104.9	NO		
51	53 13C2-PFDoA	615.0 > 569.7	18663.984	17280.855	1.00	6.05	13.500	12.5	100.4	NO		
52	-1											
53	30 PFTeDA	713.0 > 669.0	16108.872	12989.431	1.00	6.52	15.502	10.1	100.9	NO	12.534	NO
54	31 N-EtFOSA	526.1 > 168.9	5683.284	18028.717	1.00	6.40	47.285	53.2	106.5	NO	1.648	NO
55	32 PFHxDA	813.1 > 768.6	9342.359	7519.431	1.00	6.84	6.212	10.5	104.8	NO	26.410	NO
56	33 PFODA	913.1 > 868.8	12411.585	7519.431	1.00	7.07	8.253	10.1	101.4	NO		
57	34 N-MeFOSE	616.1 > 58.9	3399.730	10268.225	1.00	6.68	49.664	53.0	106.0	NO		
58	35 N-EtFOSE	630.1 > 58.9	4111.052	10630.638	1.00	6.83	58.008	49.3	98.5	NO		
59	55 13C2-PFTeDA	715.1 > 669.7	12989.431	19749.115	1.00	6.52	8.222	12.1	97.1	NO		
60	56 d5-N-ETFOSA	531.1 > 168.9	18028.717	19749.115	1.00	6.42	11.411	159.5	106.3	NO		
61	57 13C2-PFHxDA	815 > 769.7	7519.431	19749.115	1.00	6.84	4.759	5.3	105.0	NO		
62	57 13C2-PFHxDA	815 > 769.7	7519.431	19749.115	1.00	6.84	4.759	5.3	105.0	NO		
63	58 d7-N-MeFOSE	623.1 > 58.9	10268.225	19749.115	1.00	6.67	6.499	166.1	110.7	NO		
64	59 d9-N-EtFOSE	639.2 > 58.8	10630.638	19749.115	1.00	6.82	6.729	176.1	117.4	NO		
65	-1											
66	60 13C4-PFBA	217. > 172	9963.428	9963.428	1.00	1.32	12.500	12.5	100.0	NO		
67	61 13C5-PFHxA	318 > 272.9	18203.420	18203.420	1.00	3.49	12.500	12.5	100.0	NO		
68	62 13C3-PFHxS	401.8 > 79.9	2661.344	2661.344	1.00	4.28	12.500	12.5	100.0	NO		
69	63 13C8-PFOA	420.9 > 376	21610.016	21610.016	1.00	4.63	12.500	12.5	100.0	NO		
70	64 13C9-PFNA	472.2 > 426.9	15943.935	15943.935	1.00	5.06	12.500	12.5	100.0	NO		
71	65 13C4-PFOS	503 > 79.9	2797.771	2797.771	1.00	5.15	12.500	12.5	100.0	NO		
72	66 13C6-PFDA	519.1 > 473.7	17280.855	17280.855	1.00	5.44	12.500	12.5	100.0	NO		

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Name: 181231M1_61, Date: 31-Dec-2018, Time: 20:40:31, ID: ST181231M1-5 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67 13C7-PFUdA	570.1 > 524.8	19749.115	19749.115	1.00	5.77	12.500	12.5	100.0		NO	

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Name: 181231M1_77, Date: 31-Dec-2018, Time: 23:30:02, ID: ST181231M1-6 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
1	1 PFBA	213.0 > 168.8	7910.697	8347.415	1.00	1.32	11.846	10.1	100.6	NO		
2	2 PFPeA	263.1 > 218.9	8586.267	10421.993	1.00	2.58	10.298	10.0	100.1	NO		
3	3 PFBS	299.0 > 79.7	2542.620	1488.872	1.00	2.91	21.347	10.4	103.5	NO	3.243	NO
4	4 4:2 FTS	327.2>307.2	3454.664	3849.684	1.00	3.40	11.217	10.1	100.9	NO	1.699	NO
5	5 PFHxA	313 > 269	14676.912	7302.811	1.00	3.48	10.049	10.1	101.2	NO	14.444	NO
6	6 PFPeS	349.1>80.1	1995.121	1488.872	1.00	3.70	16.750	9.6	95.9	NO	1.612	NO
7	36 13C3-PFBA	216.1 > 171.8	8347.415	10833.624	1.00	1.32	9.631	13.2	106.0	NO		
8	37 13C3-PFPeA	266. > 221.8	10421.993	20151.059	1.00	2.58	6.465	12.7	101.2	NO		
9	38 13C3-PFBS	302. > 98.8	1488.872	2898.981	1.00	2.91	6.420	12.9	103.2	NO		
10	39 13C2-4:2 FTS	329.2>308.9	3849.684	2898.981	1.00	3.40	16.599	12.7	101.3	NO		
11	40 13C2-PFHxA	315 > 270	7302.811	20151.059	1.00	3.49	4.530	4.8	95.6	NO		
12	38 13C3-PFBS	302. > 98.8	1488.872	2898.981	1.00	2.91	6.420	12.9	103.2	NO		
13	-1											
14	10 6:2 FTS	427.1 > 407	4557.621	3162.517	1.00	4.57	18.014	10.1	101.1	NO	2.952	NO
15	7 PFHpA	363.0 > 318.9	11395.718	9648.094	1.00	4.14	14.764	10.0	100.0	NO	14.541	NO
16	8 L-PFHxS	398.9 > 79.6	2214.237	1284.816	1.00	4.27	21.542	10.6	106.3	NO	2.188	NO
17	11 L-PFOA	412.8 > 368.9	20182.893	17401.496	1.00	4.62	14.498	9.8	98.0	NO	3.109	NO
18	13 PFHpS	449 > 80.0	2316.809	3355.256	1.00	4.73	8.631	10.2	101.7	NO	1.926	NO
19	14 PFNA	463.0 > 418.8	17326.545	16392.150	1.00	5.06	13.213	10.5	104.9	NO	4.485	NO
20	43 13C2-6:2 FTS	428.9>80.9	3162.517	3042.648	1.00	4.57	12.992	14.1	112.9	NO		
21	41 13C4-PFHpA	367.2 > 321.8	9648.094	20151.059	1.00	4.14	5.985	12.4	98.9	NO		
22	42 18O2-PFHxS	403.0 > 102.6	1284.816	2898.981	1.00	4.27	5.540	13.4	107.1	NO		
23	44 13C2-PFOA	414.9 > 369.7	17401.496	24514.104	1.00	4.62	8.873	13.1	104.7	NO		
24	47 13C8-PFOS	507.0 > 79.9	3355.256	3042.648	1.00	5.14	13.784	13.3	106.3	NO		
25	45 13C5-PFNA	468.2 > 422.9	16392.150	17203.072	1.00	5.06	11.911	12.6	100.4	NO		
26	-1											
27	15 PFOSA	497.9 > 77.9	4788.771	5277.000	1.00	5.10	11.343	10.1	101.4	NO	41.651	NO
28	16 L-PFOS	498.9 > 79.9	2921.823	3355.256	1.00	5.14	10.885	9.9	99.3	NO	2.010	NO
29	18 PFDA	513 > 468.8	18901.674	17306.215	1.00	5.43	13.652	11.0	110.1	NO	5.967	NO
30	19 8:2 FTS	527 > 506.9	4287.509	3564.473	1.00	5.41	15.036	10.1	101.2	NO	2.372	NO
31	20 PFNS	549.1 > 80.1	1943.510	3355.256	1.00	5.50	7.241	10.1	100.5	NO	1.894	NO
32	21 L-MeFOSAA	570 > 419	7565.546	3301.125	1.00	5.59	28.648	10.6	106.4	NO	2.390	NO
33	46 13C8-PFOSA	506.1 > 77.7	5277.000	21284.385	1.00	5.09	3.099	16.3	130.6	NO		
34	47 13C8-PFOS	507.0 > 79.9	3355.256	3042.648	1.00	5.14	13.784	13.3	106.3	NO		
35	48 13C2-PFDA	515.1 > 469.9	17306.215	18900.793	1.00	5.43	11.445	12.2	97.7	NO		
36	49 13C2-8:2 FTS	529.1 > 508.7	3564.473	3042.648	1.00	5.41	14.644	13.2	105.6	NO		

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Name: 181231M1_77, Date: 31-Dec-2018, Time: 23:30:02, ID: ST181231M1-6 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
37	47 13C8-PFOS	507.0 > 79.9	3355.256	3042.648	1.00	5.14	13.784	13.3	106.3	NO		
38	50 d3-N-MeFOSAA	573.3 > 419	3301.125	21284.385	1.00	5.59	1.939	12.1	96.5	NO		
39	-1											
40	23 L-EIFOSAA	584.1 > 419	6300.069	4535.452	1.00	5.75	17.363	10.7	107.2	NO	1.329	NO
41	27 PFDoA	612.9 > 569.0	21348.732	21046.318	1.00	6.05	12.680	10.2	101.7	NO	9.278	NO
42	26 PFDS	598.8 > 79.9	2863.846	3355.256	1.00	5.81	10.669	10.8	108.5	NO	1.871	NO
43	25 PFUdA	563.0 > 518.9	18668.580	22197.486	1.00	5.76	10.513	10.5	104.5	NO	11.471	NO
44	28 N-MeFOSA	512.1 > 168.9	4909.133	13050.714	1.00	5.93	56.424	53.5	107.0	NO	1.643	NO
45	29 PFTrDA	662.9 > 618.9	21462.682	21046.318	1.00	6.29	12.747	9.4	93.7	NO	28.519	NO
46	52 d5-N-EiFOSAA	589.3 > 419	4535.452	21284.385	1.00	5.74	2.664	11.9	95.6	NO		
47	53 13C2-PFDoA	615.0 > 569.7	21046.318	18900.793	1.00	6.05	13.919	12.9	103.5	NO		
48	47 13C8-PFOS	507.0 > 79.9	3355.256	3042.648	1.00	5.14	13.784	13.3	106.3	NO		
49	51 13C2-PFUdA	565 > 519.8	22197.486	21284.385	1.00	5.76	13.036	12.8	102.1	NO		
50	54 d3-N-MeFOSA	515.2 > 168.9	13050.714	21284.385	1.00	5.95	7.664	161.4	107.6	NO		
51	53 13C2-PFDoA	615.0 > 569.7	21046.318	18900.793	1.00	6.05	13.919	12.9	103.5	NO		
52	-1											
53	30 PFTeDA	713.0 > 669.0	18134.828	14362.138	1.00	6.50	15.784	10.3	102.7	NO	12.445	NO
54	31 N-EiFOSA	526.1 > 168.9	5843.559	20301.420	1.00	6.40	43.176	48.6	97.2	NO	1.524	NO
55	32 PFHxDA	813.1 > 768.6	9554.874	7907.909	1.00	6.83	6.041	10.2	101.9	NO	26.390	NO
56	33 PFODA	913.1 > 868.8	13480.892	7907.909	1.00	7.07	8.524	10.5	104.7	NO		
57	34 N-MeFOSE	616.1 > 58.9	3644.867	11170.694	1.00	6.67	48.943	52.2	104.5	NO		
58	35 N-EiFOSE	630.1 > 58.9	4382.436	11165.099	1.00	6.82	58.877	50.0	100.0	NO		
59	55 13C2-PFTeDA	715.1 > 669.7	14362.138	21284.385	1.00	6.50	8.435	12.5	99.6	NO		
60	56 d5-N-ETFOSA	531.1 > 168.9	20301.420	21284.385	1.00	6.41	11.923	166.6	111.1	NO		
61	57 13C2-PFHxDA	815 > 769.7	7907.909	21284.385	1.00	6.83	4.644	5.1	102.5	NO		
62	57 13C2-PFHxDA	815 > 769.7	7907.909	21284.385	1.00	6.83	4.644	5.1	102.5	NO		
63	58 d7-N-MeFOSE	623.1 > 58.9	11170.694	21284.385	1.00	6.67	6.560	167.7	111.8	NO		
64	59 d9-N-EiFOSE	639.2 > 58.8	11165.099	21284.385	1.00	6.81	6.557	171.6	114.4	NO		
65	-1											
66	60 13C4-PFBA	217. > 172	10833.624	10833.624	1.00	1.32	12.500	12.5	100.0	NO		
67	61 13C5-PFHxA	318 > 272.9	20151.059	20151.059	1.00	3.49	12.500	12.5	100.0	NO		
68	62 13C3-PFHxS	401.8 > 79.9	2898.981	2898.981	1.00	4.27	12.500	12.5	100.0	NO		
69	63 13C8-PFOA	420.9 > 376	24514.104	24514.104	1.00	4.62	12.500	12.5	100.0	NO		
70	64 13C9-PFNA	472.2 > 426.9	17203.072	17203.072	1.00	5.06	12.500	12.5	100.0	NO		
71	65 13C4-PFOS	503 > 79.9	3042.648	3042.648	1.00	5.14	12.500	12.5	100.0	NO		
72	66 13C6-PFDA	519.1 > 473.7	18900.793	18900.793	1.00	5.44	12.500	12.5	100.0	NO		

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Name: 181231M1_77, Date: 31-Dec-2018, Time: 23:30:02, ID: ST181231M1-6 PFC CS3 18L2606, Description: PFC CS3 18L2606

#	Name	Trace	Area	IS Area	wt/vol	RT	Response	Conc.	%Rec	Recovery ...	Ion Ratio	Ratio Out?
73	67 13C7-PFUDa	570.1 > 524.8	21284.385	21284.385	1.00	5.76	12.500	12.5	100.0		NO	

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	CALVERTON_NWIRP	1804077	SITE 00002	SITE 00002	FTPZ461I	Piezometer	1320672.604	269642.207	N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ461I-20181211	Ground water	Normal (Regular)	11-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1804077	SITE 00002	SITE 00002	FTPZ460I	Piezometer	1320286.551	269267.648	N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ460I-20181211	Ground water	Normal (Regular)	11-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1804077							N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ464S-FRB-20181211	Water for QC samples	Field Reagent Blank	11-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1804077	SITE 00002	SITE 00002	FTPZ464S	Piezometer	1320040.74	267955.7015	N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ464S-20181211	Ground water	Normal (Regular)	11-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1804077	SITE 00002	SITE 00002	FTPZ458I	Piezometer	1319262.369	269771.557	N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ458I-20181211	Ground water	Normal (Regular)	11-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	CALVERTON_NWIRP	1804077	SITE 00002	SITE 00002	FTPZ460I	Piezometer	1320286.551	269267.648	N6247016D9008	WE05	TETRA TECH, INC.	FT-PZ460I-20181211-D	Ground water	Field duplicate	11-Dec-18	537	Perfluoroalkyl Compounds