

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052021\
 Data File : BF124009.D
 Acq On : 20 May 2021 15:08
 Operator : JU/CG
 Sample : M2449-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOP-SOIL-COMPOSITE-PILE-3

Quant Time: May 20 15:47:01 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 14 19:05:57 2021
 Response via : Initial Calibration

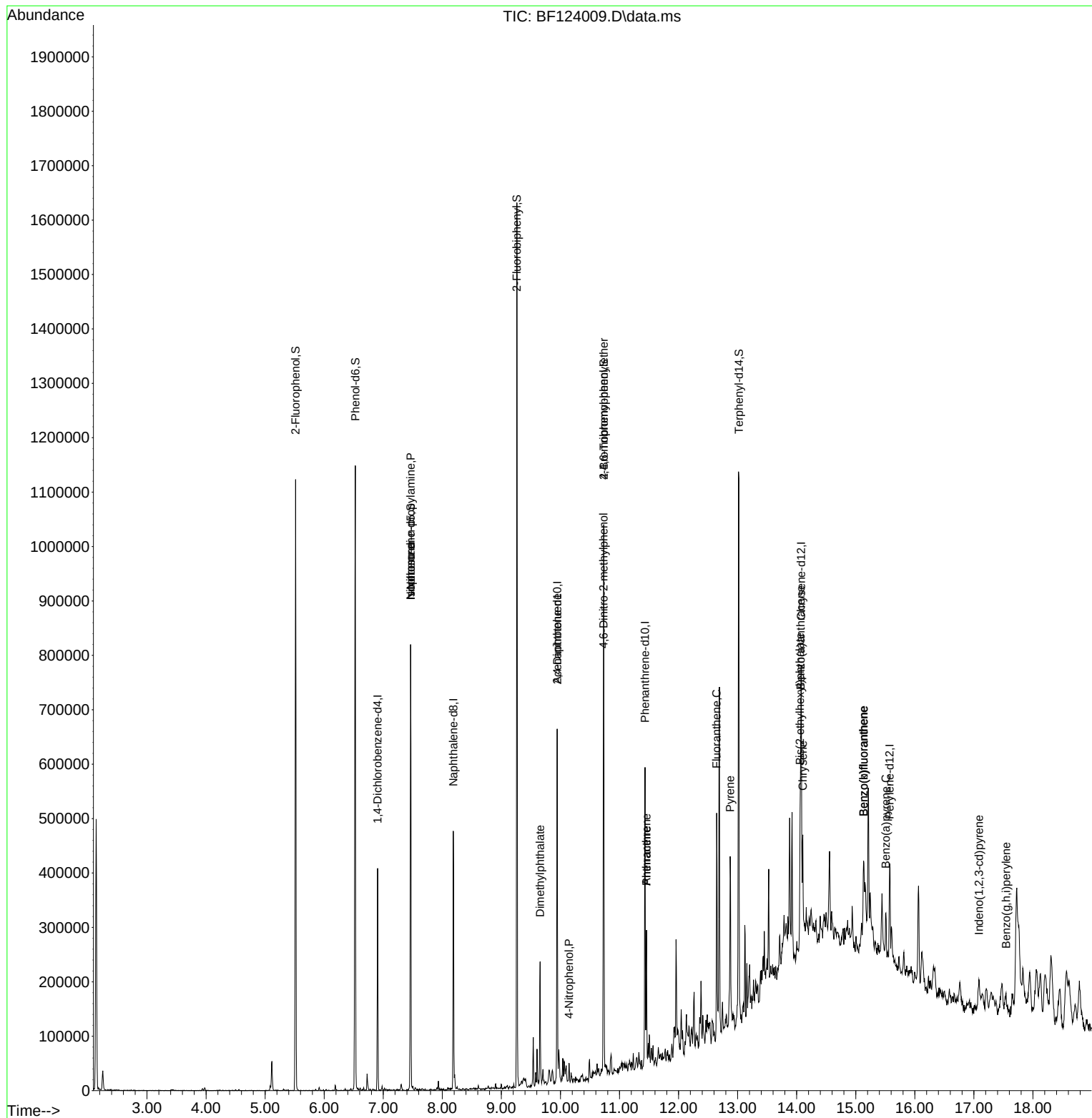
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	42283	20.00	ng	0.00
21) Naphthalene-d8	8.187	136	173070	20.00	ng	0.00
39) Acenaphthene-d10	9.945	164	100459	20.00	ng	0.00
64) Phenanthrene-d10	11.433	188	166637	20.00	ng	0.00
76) Chrysene-d12	14.074	240	119461	20.00	ng	0.00
86) Perylene-d12	15.574	264	77585	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	233262	77.46	ng	0.00
7) Phenol-d6	6.528	99	300963	77.04	ng	0.00
23) Nitrobenzene-d5	7.463	82	226035	56.27	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	91707	76.00	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	398939	48.87	ng	0.00
79) Terphenyl-d14	13.021	244	317923	40.31	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.463	70	31825	12.06	ng	Qvalue # 79
25) Isophorone	7.463	82	226031	29.25	ng	# 69
50) Dimethylphthalate	9.657	163	73025	9.10	ng	# 99
56) 4-Nitrophenol	10.145	139	3670	2.75	ng	# 4
57) 2,4-Dinitrotoluene	9.945	165	13044	6.56	ng	# 19
65) 4,6-Dinitro-2-methylph...	10.728	198	318	5.70	ng	# 1
67) 4-Bromophenyl-phenylether	10.733	248	6505	2.97	ng	# 1
71) Phenanthrene	11.457	178	77560	7.34	ng	99
72) Anthracene	11.457	178	77560	7.25	ng	98
75) Fluoranthene	12.645	202	136095	12.45	ng	98
78) Pyrene	12.874	202	123176	11.61	ng	99
81) Benzo(a)anthracene	14.068	228	65266	7.55	ng	97
83) Chrysene	14.104	228	65771	7.92	ng	96
84) Bis(2-ethylhexyl)phtha...	14.057	149	13177	2.25	ng	96
87) Indeno(1,2,3-cd)pyrene	17.086	276	27017	4.51	ng	94
88) Benzo(b)fluoranthene	15.133	252	88931	14.82	ng	# 83
89) Benzo(k)fluoranthene	15.133	252	88931	16.26	ng	# 83
90) Benzo(a)pyrene	15.510	252	40214	7.75	ng	# 96
92) Benzo(g,h,i)perylene	17.545	276	23573	4.66	ng	# 83

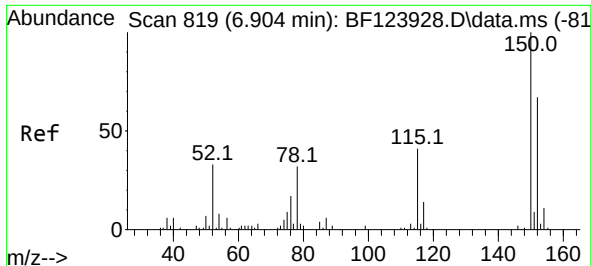
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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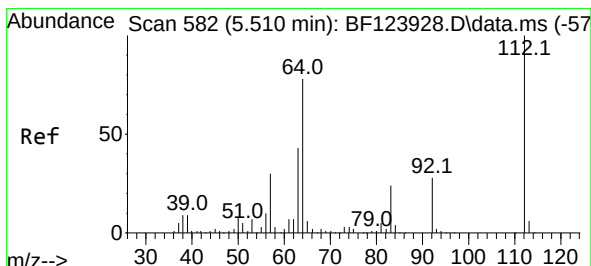
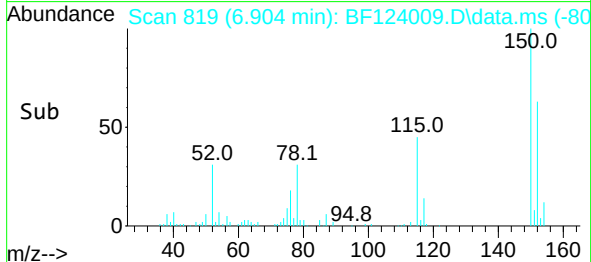
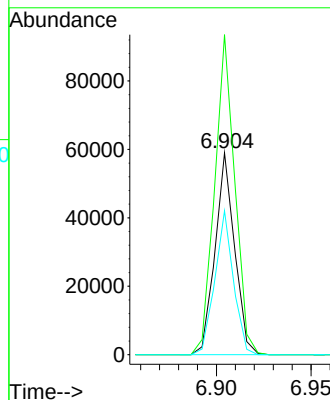
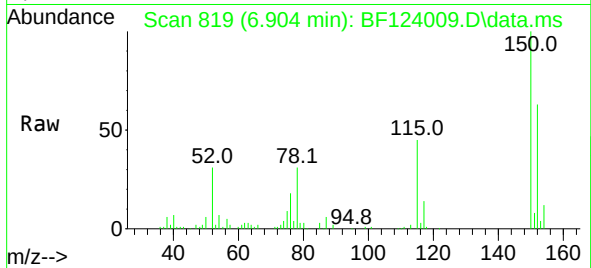




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.904 min Scan# 819
Delta R.T. 0.000 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

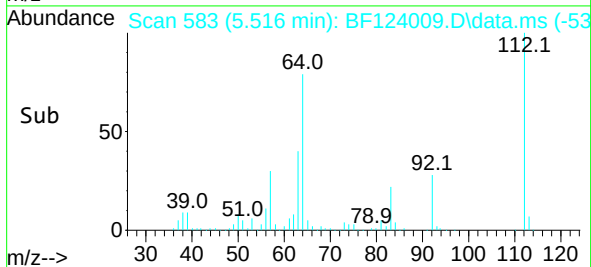
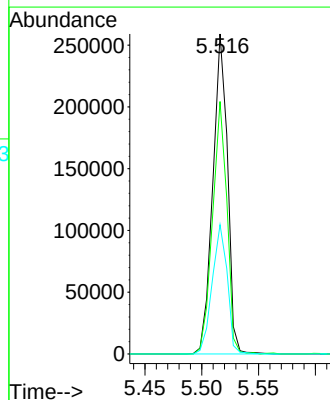
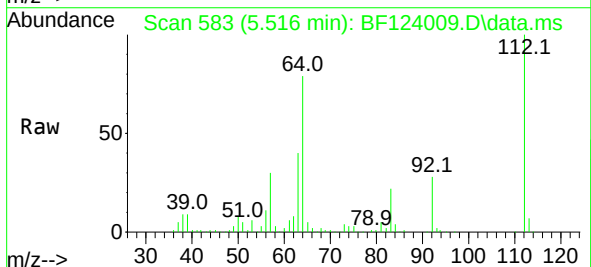
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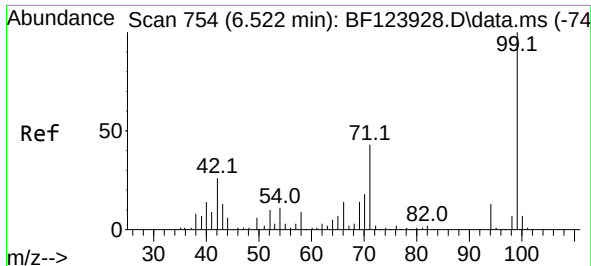
Tgt Ion:152 Resp: 42283
Ion Ratio Lower Upper
152 100
150 158.4 127.0 190.6
115 71.2 54.3 81.5



#5
2-Fluorophenol
Concen: 77.46 ng
RT: 5.516 min Scan# 583
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:112 Resp: 233262
Ion Ratio Lower Upper
112 100
64 78.9 61.4 92.0
63 40.4 33.0 49.4

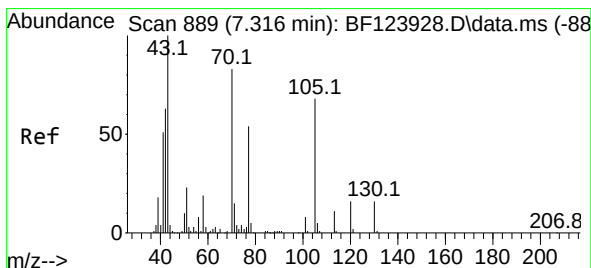
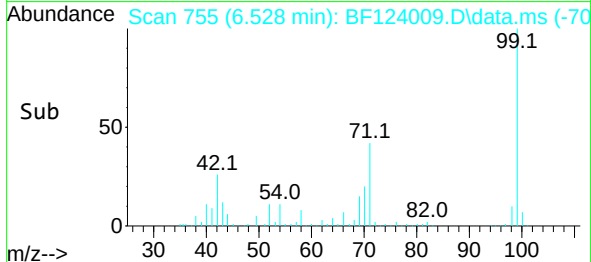
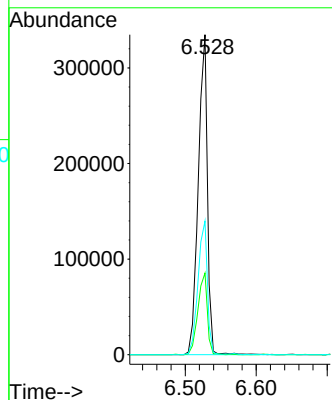
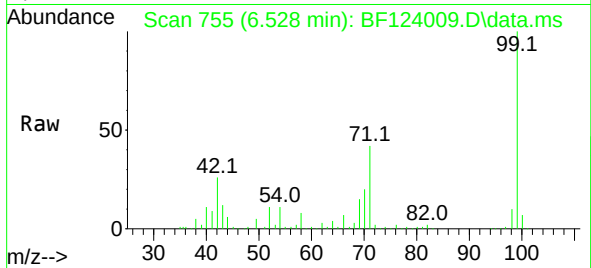




#7
Phenol-d6
Concen: 77.04 ng
RT: 6.528 min Scan# 755
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

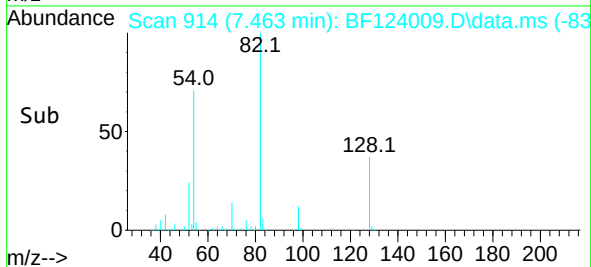
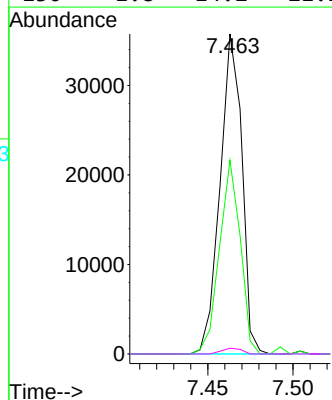
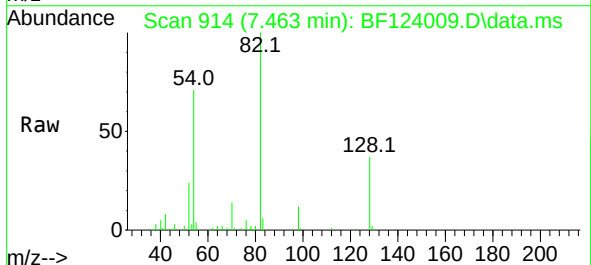
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ClientSampleId :
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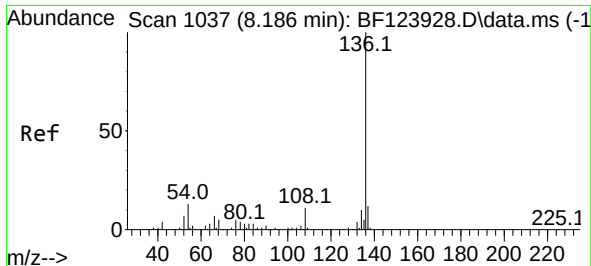
Tgt Ion: 99 Resp: 300963
Ion Ratio Lower Upper
99 100
42 25.5 19.8 29.8
71 41.8 31.1 46.7



#19
n-Nitroso-di-n-propylamine
Concen: 12.06 ng
RT: 7.463 min Scan# 914
Delta R.T. 0.147 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion: 70 Resp: 31825
Ion Ratio Lower Upper
70 100
42 60.6 60.1 90.1
101 0.0 7.4 11.2#
130 1.8 14.2 21.2#

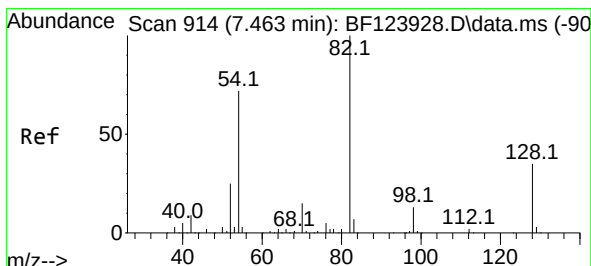
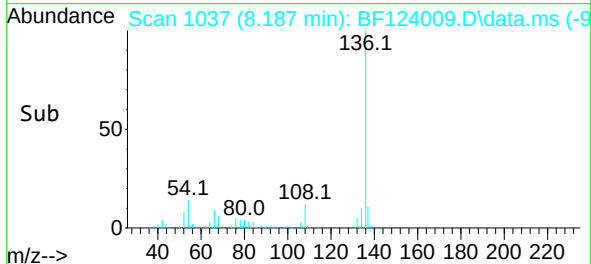
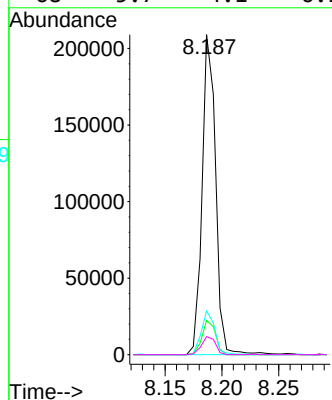
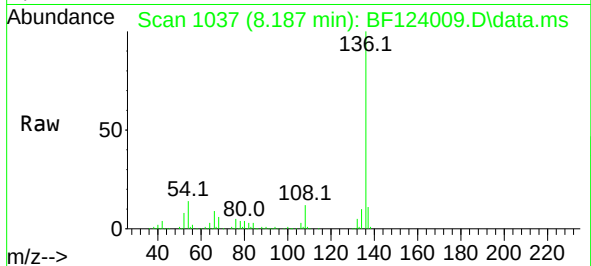




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.187 min Scan# 1037
Delta R.T. 0.001 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

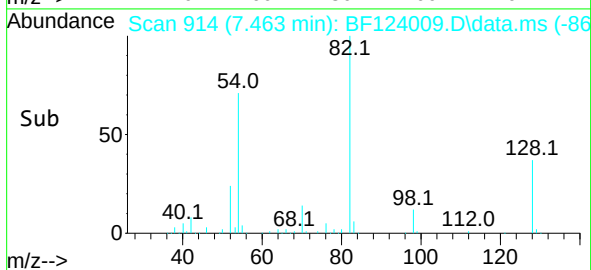
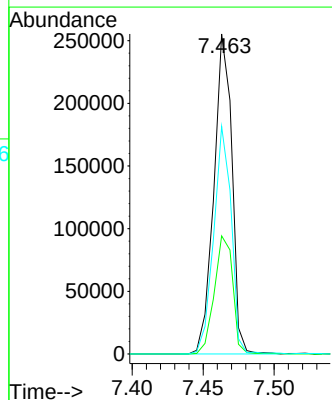
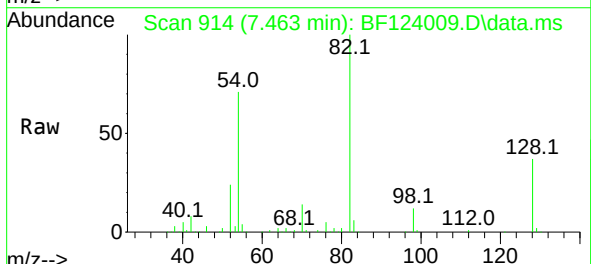
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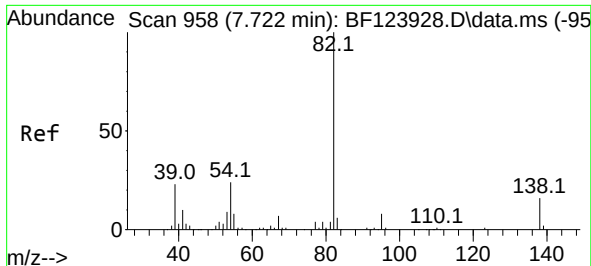
Tgt Ion:	136	Resp:	173070
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.7	13.1
54	13.7	9.8	14.6
68	5.7	4.1	6.1



#23
Nitrobenzene-d5
Concen: 56.27 ng
RT: 7.463 min Scan# 914
Delta R.T. 0.000 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:	82	Resp:	226035
Ion	Ratio	Lower	Upper
82	100		
128	36.9	29.4	44.2
54	71.1	54.1	81.1

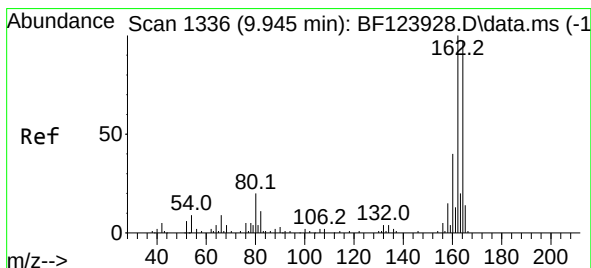
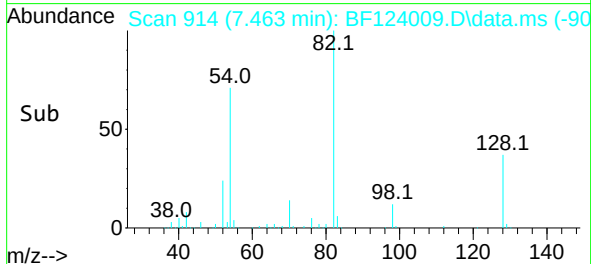
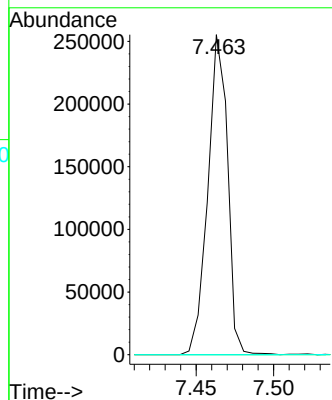
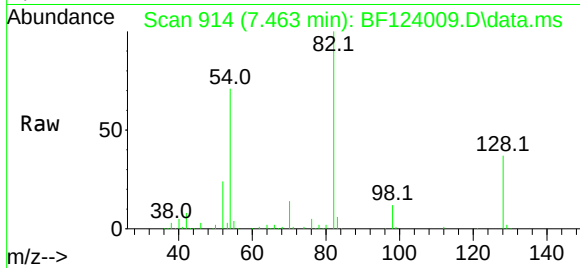




#25
Isophorone
Concen: 29.25 ng
RT: 7.463 min Scan# 914
Delta R.T. -0.259 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

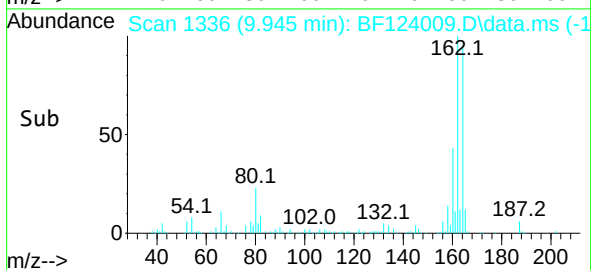
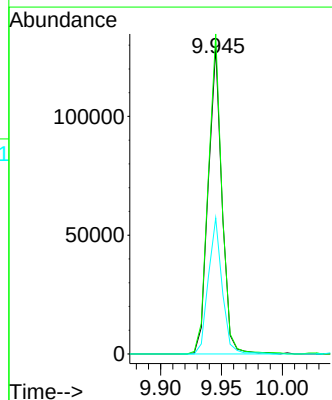
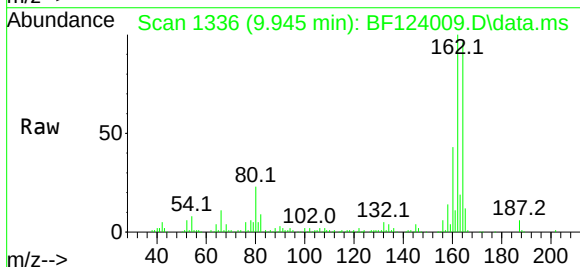
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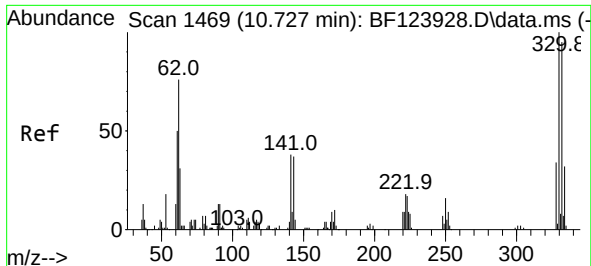
Tgt Ion: 82 Resp: 226031
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.6#
138 0.0 11.8 17.8#



#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.945 min Scan# 1336
Delta R.T. 0.000 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

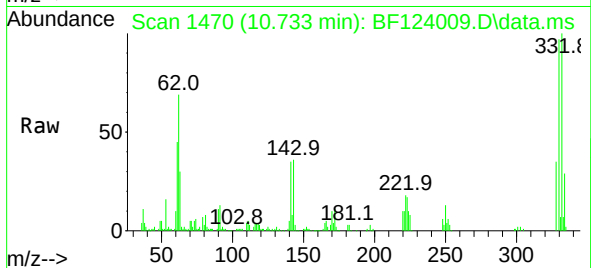
Tgt Ion:164 Resp: 100459
Ion Ratio Lower Upper
164 100
162 104.4 80.7 121.1
160 44.4 37.3 55.9



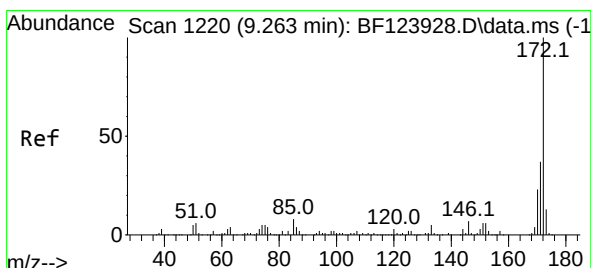
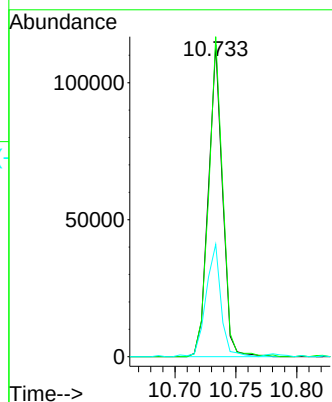
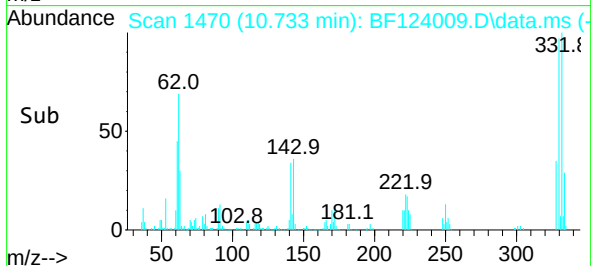


#42
2,4,6-Tribromophenol
Concen: 76.00 ng
RT: 10.733 min Scan# 1470
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

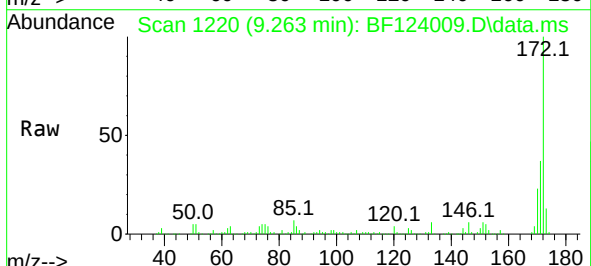
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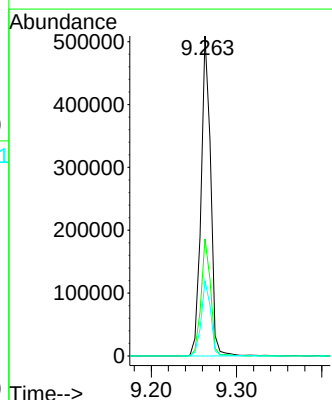
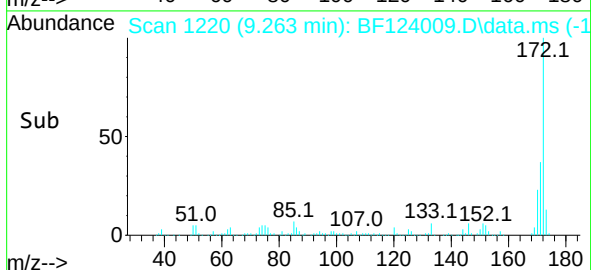
Tgt Ion: 330 Resp: 91707
Ion Ratio Lower Upper
330 100
332 101.7 77.1 115.7
141 38.2 27.9 41.9

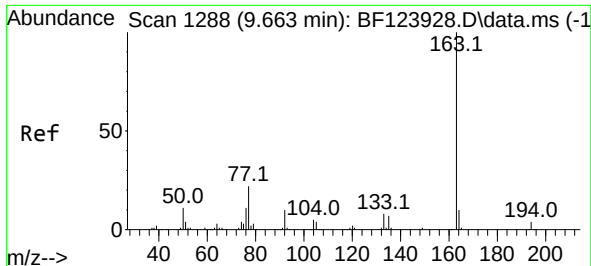


#45
2-Fluorobiphenyl
Concen: 48.87 ng
RT: 9.263 min Scan# 1220
Delta R.T. 0.000 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08



Tgt Ion: 172 Resp: 398939
Ion Ratio Lower Upper
172 100
171 36.6 28.1 42.1
170 23.5 19.2 28.8

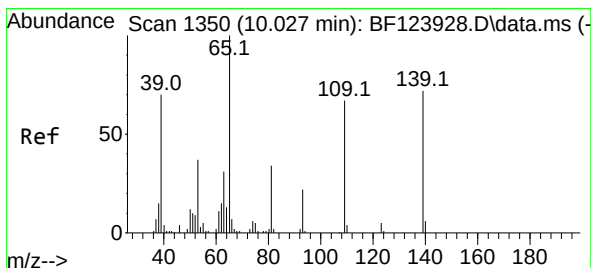
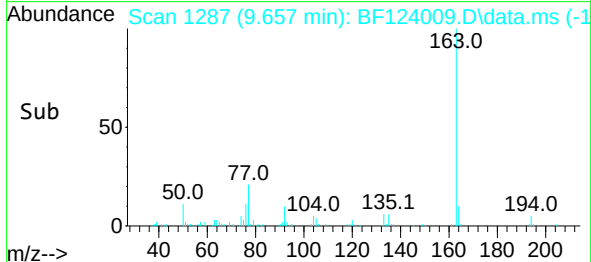
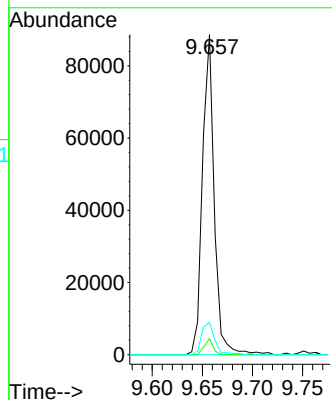
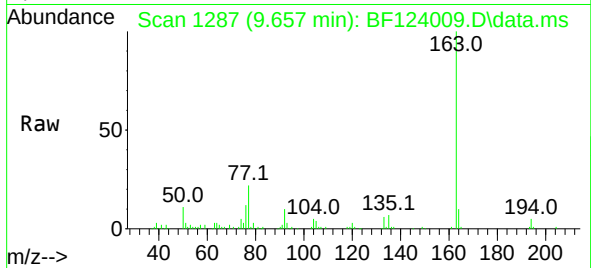




#50
Dimethylphthalate
Concen: 9.10 ng
RT: 9.657 min Scan# 1287
Delta R.T. -0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

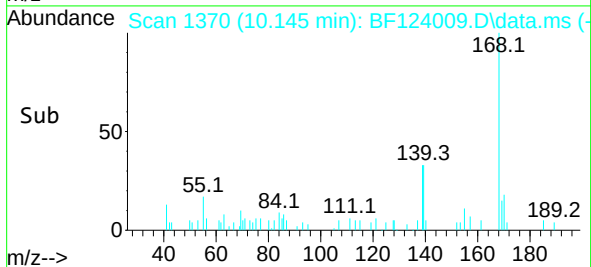
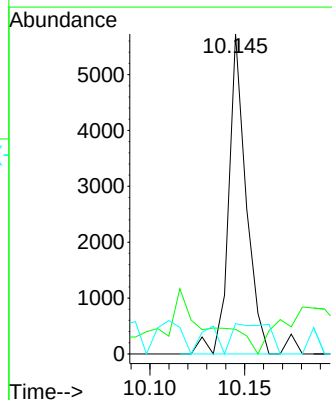
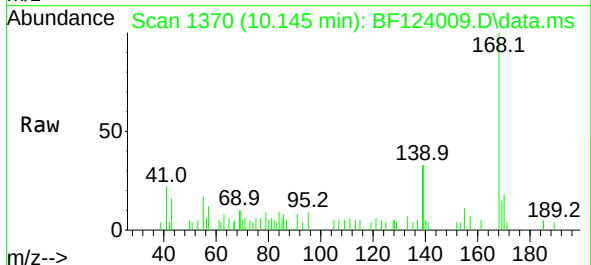
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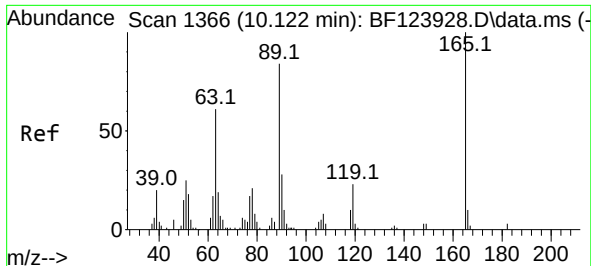
Tgt Ion:163 Resp: 73025
Ion Ratio Lower Upper
163 100
194 4.9 3.1 4.7#
164 10.2 8.2 12.2



#56
4-Nitrophenol
Concen: 2.75 ng
RT: 10.145 min Scan# 1370
Delta R.T. 0.118 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

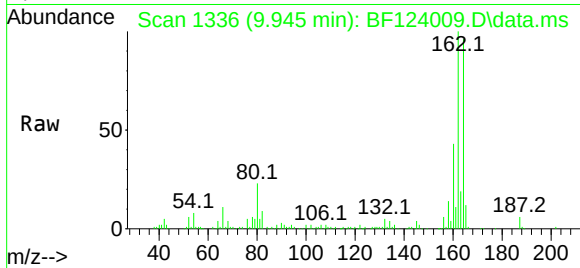
Tgt Ion:139 Resp: 3670
Ion Ratio Lower Upper
139 100
109 7.7 63.2 103.2#
65 9.5 110.0 150.0#



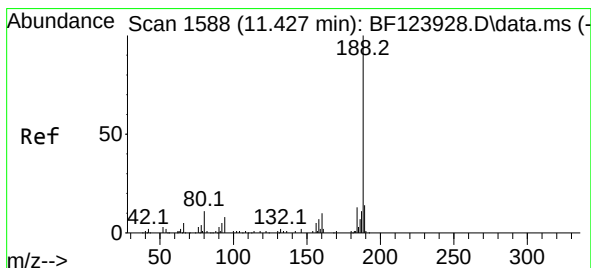
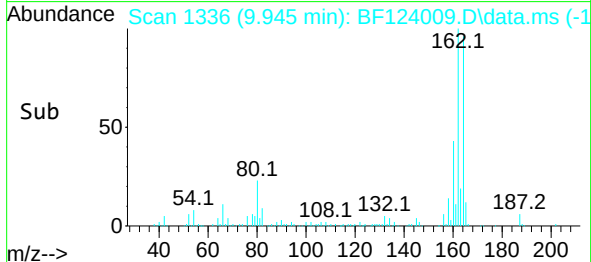
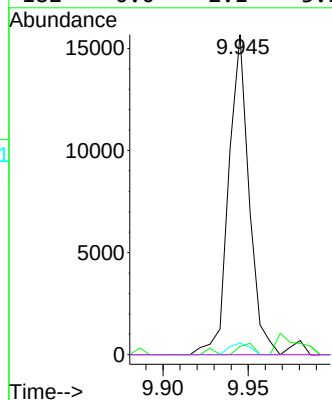


#57
2,4-Dinitrotoluene
Concen: 6.56 ng
RT: 9.945 min Scan# 1336
Delta R.T. -0.176 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

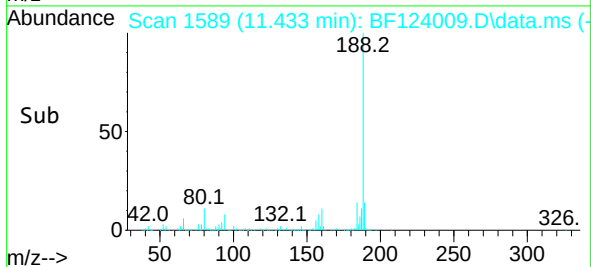
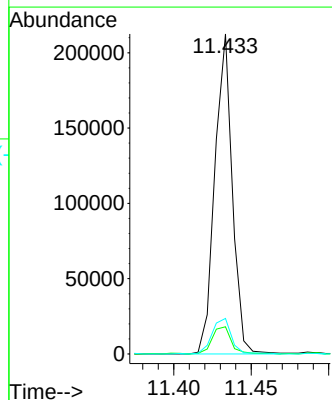
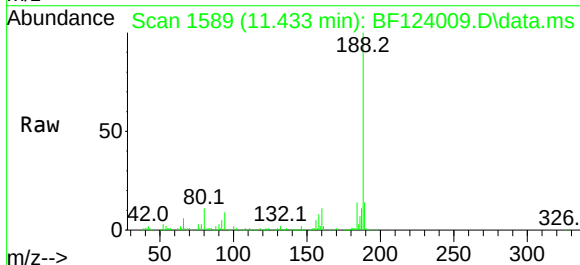


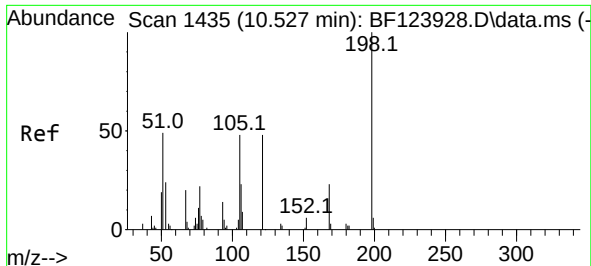
Tgt Ion:165 Resp: 13044
Ion Ratio Lower Upper
165 100
63 2.6 43.5 65.3#
89 3.6 67.7 101.5#
182 0.0 2.1 3.1#



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.433 min Scan# 1589
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:188 Resp: 166637
Ion Ratio Lower Upper
188 100
94 8.5 6.9 10.3
80 11.1 8.2 12.2

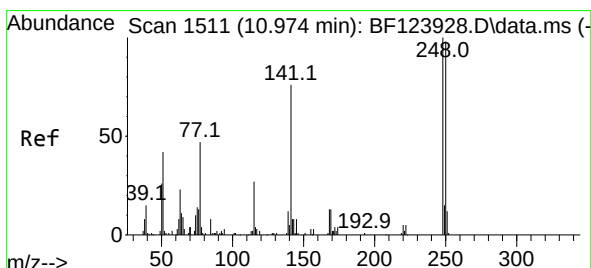
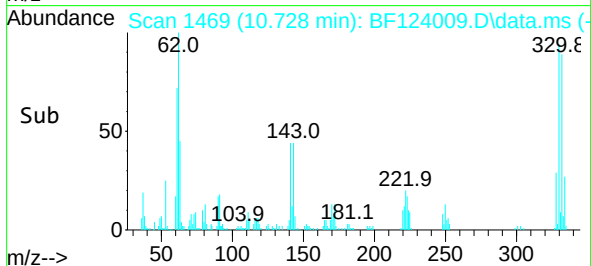
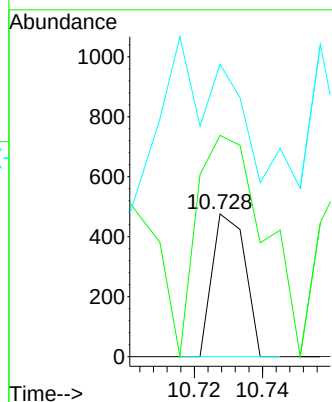
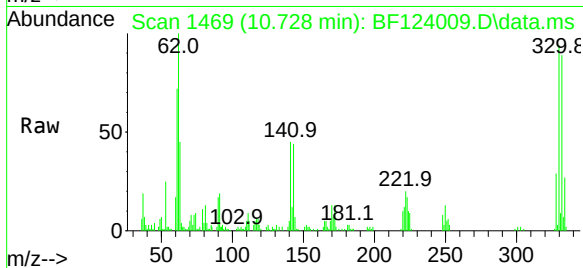




#65
4,6-Dinitro-2-methylphenol
Concen: 5.70 ng
RT: 10.728 min Scan# 1469
Delta R.T. 0.201 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

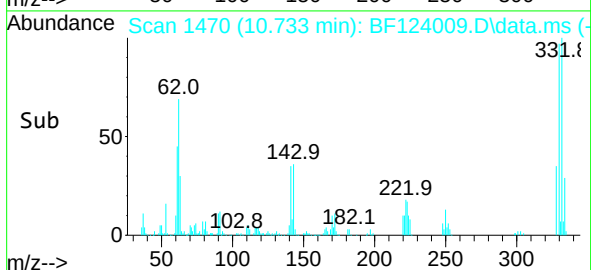
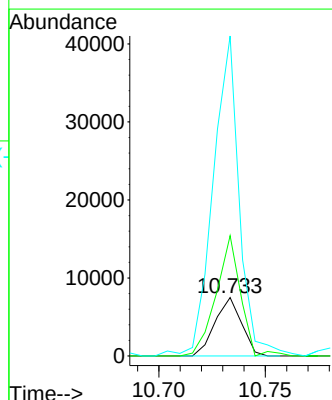
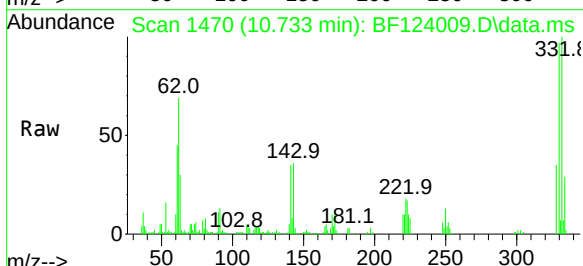
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

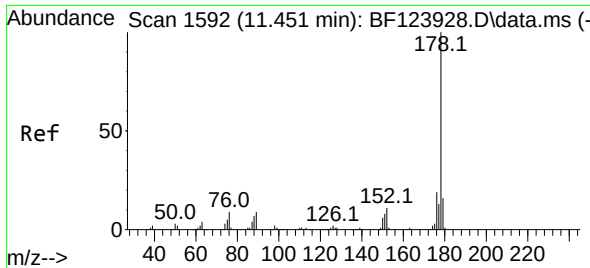
Tgt Ion:198 Resp: 318
Ion Ratio Lower Upper
198 100
51 155.0 64.8 104.8#
105 204.8 42.6 82.6#



#67
4-Bromophenyl-phenylether
Concen: 2.97 ng
RT: 10.733 min Scan# 1470
Delta R.T. -0.241 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:248 Resp: 6505
Ion Ratio Lower Upper
248 100
250 205.8 77.4 116.2#
141 547.3 63.7 95.5#

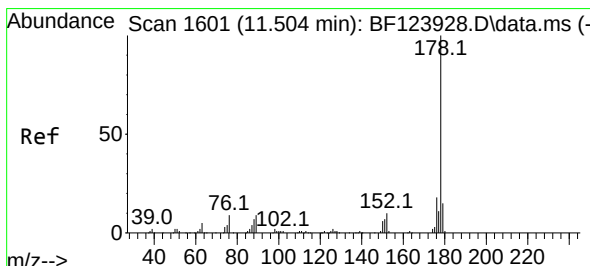
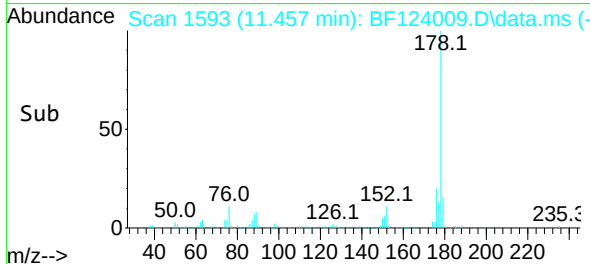
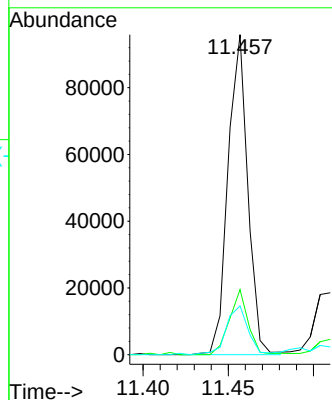
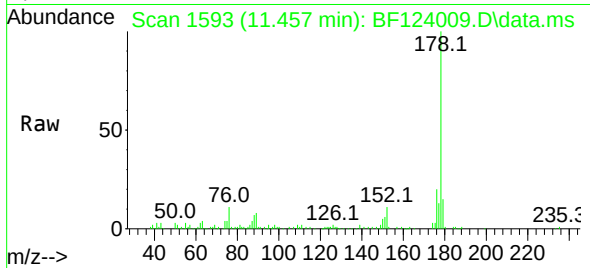




#71
Phenanthrene
Concen: 7.34 ng
RT: 11.457 min Scan# 1593
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

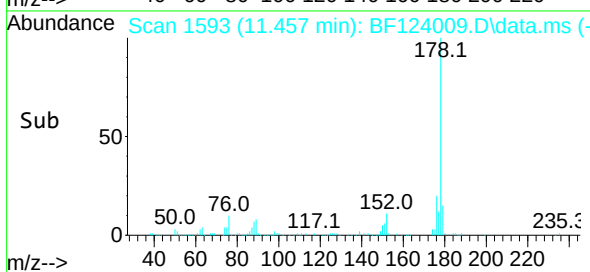
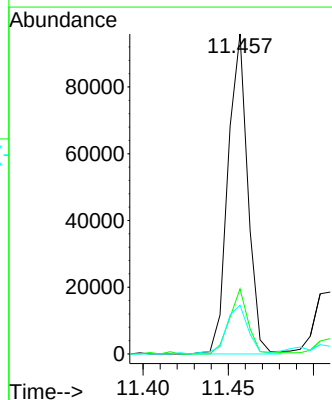
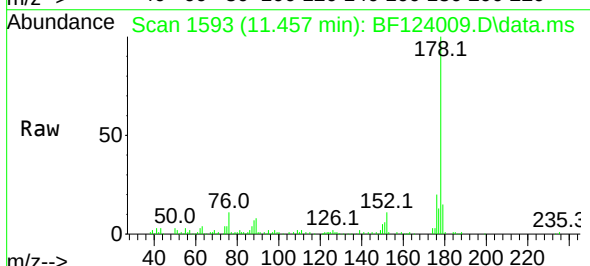
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

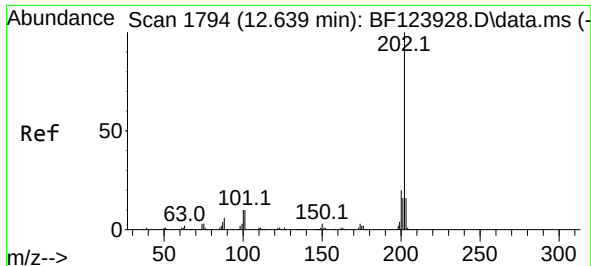
Tgt Ion:178 Resp: 77560
Ion Ratio Lower Upper
178 100
176 20.3 15.6 23.4
179 15.3 12.5 18.7



#72
Anthracene
Concen: 7.25 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.047 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:178 Resp: 77560
Ion Ratio Lower Upper
178 100
176 20.3 15.4 23.0
179 15.3 12.6 18.8

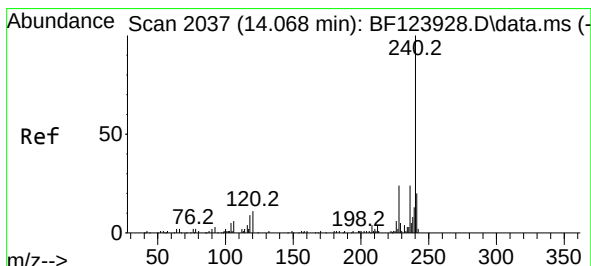
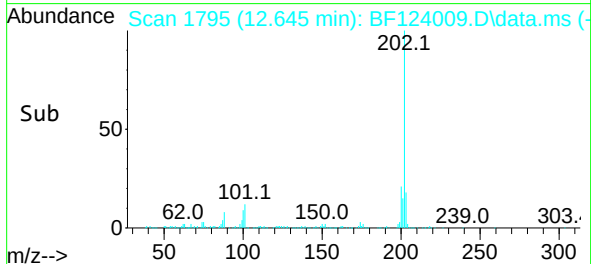
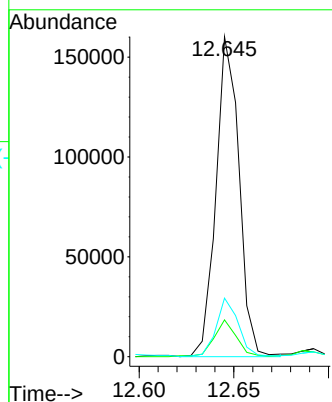
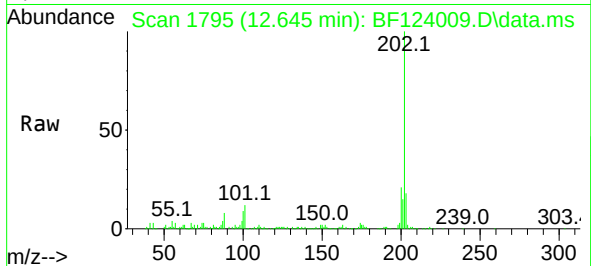




#75
Fluoranthene
Concen: 12.45 ng
RT: 12.645 min Scan# 1795
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

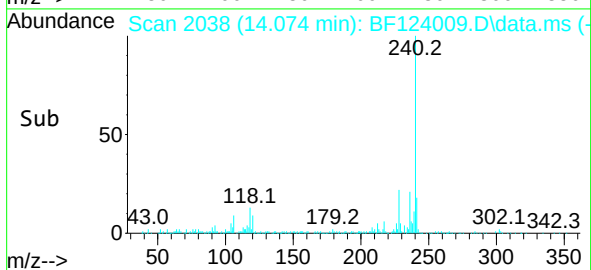
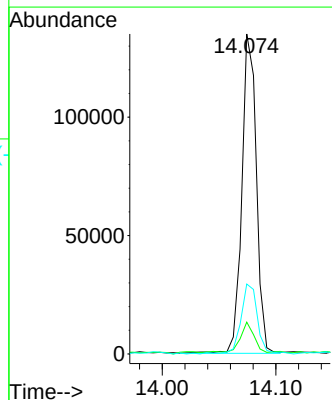
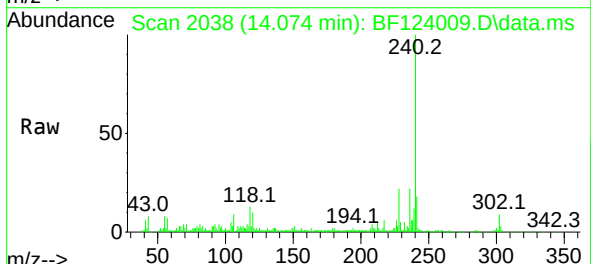
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

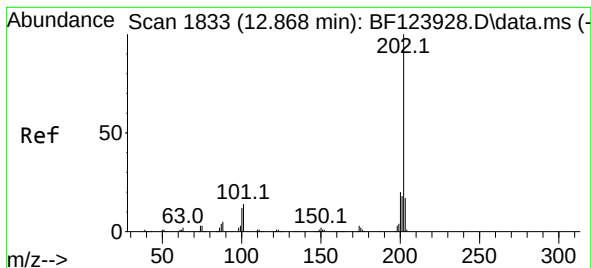
Tgt Ion:202 Resp: 136095
Ion Ratio Lower Upper
202 100
101 11.5 0.0 30.9
203 18.3 0.0 37.5



#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.074 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:240 Resp: 119461
Ion Ratio Lower Upper
240 100
120 9.9 7.2 10.8
236 21.9 19.0 28.4





#78

Pyrene

Concen: 11.61 ng

RT: 12.874 min Scan# 1834

Delta R.T. 0.006 min

Lab File: BF124009.D

Acq: 20 May 2021 15:08

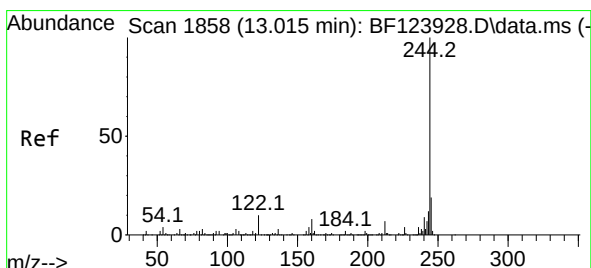
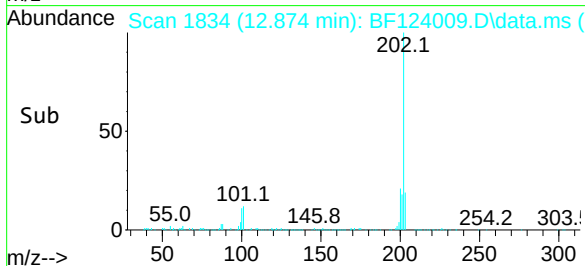
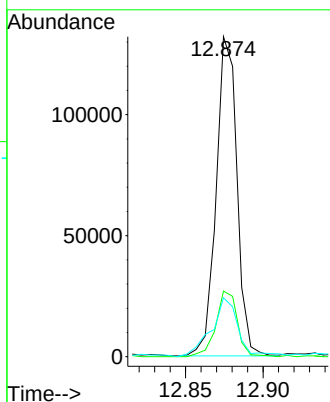
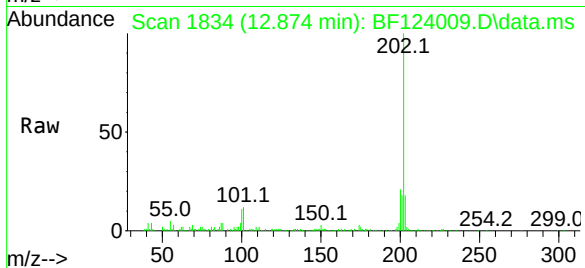
Tgt Ion:202 Resp: 123176

Ion Ratio Lower Upper

202 100

200 20.5 16.1 24.1

203 18.4 14.8 22.2



#79

Terphenyl-d14

Concen: 40.31 ng

RT: 13.021 min Scan# 1859

Delta R.T. 0.006 min

Lab File: BF124009.D

Acq: 20 May 2021 15:08

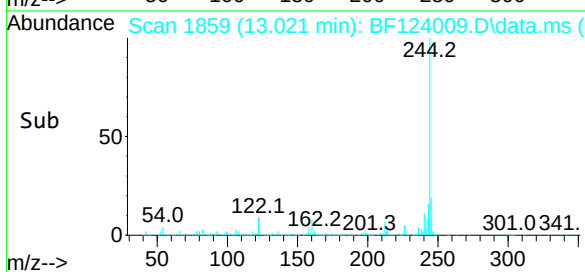
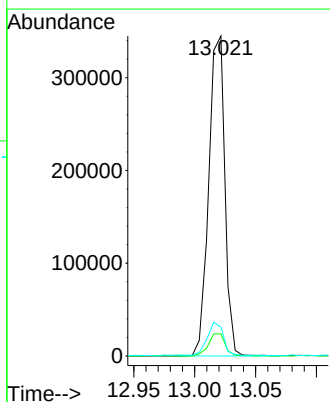
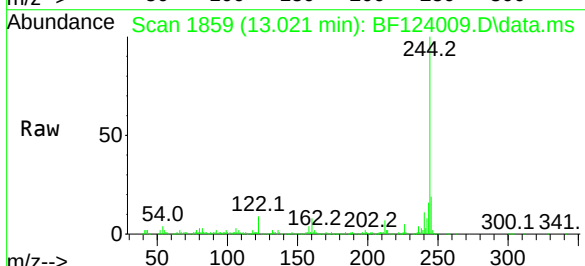
Tgt Ion:244 Resp: 317923

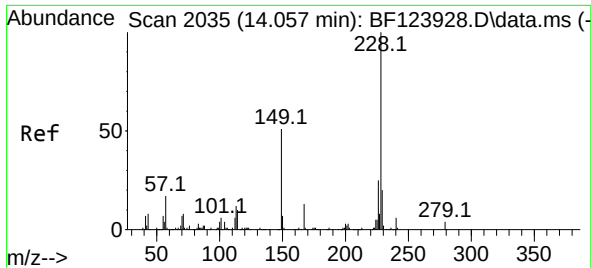
Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

122 9.0 9.7 14.5#

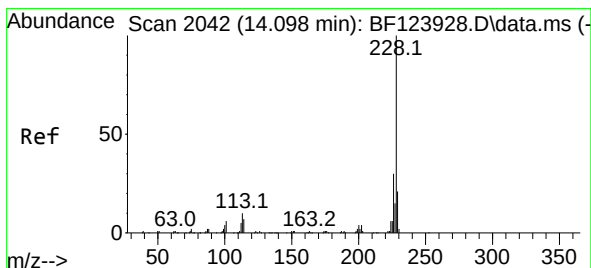
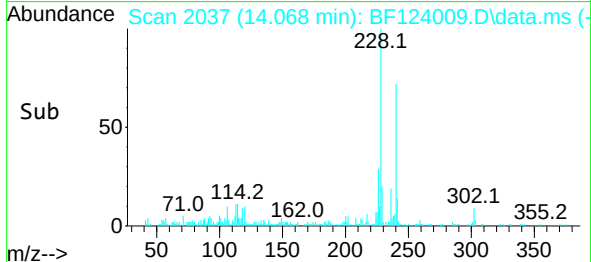
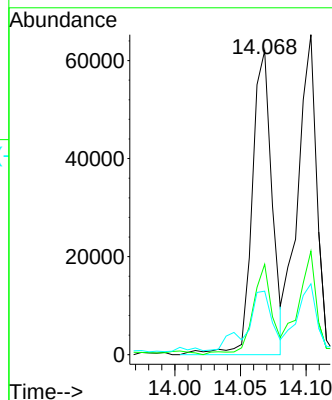
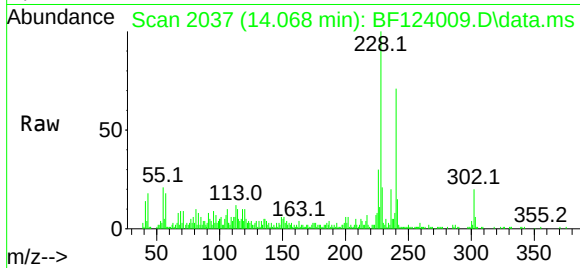




#81
Benzo(a)anthracene
Concen: 7.55 ng
RT: 14.068 min Scan# 2037
Delta R.T. 0.012 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

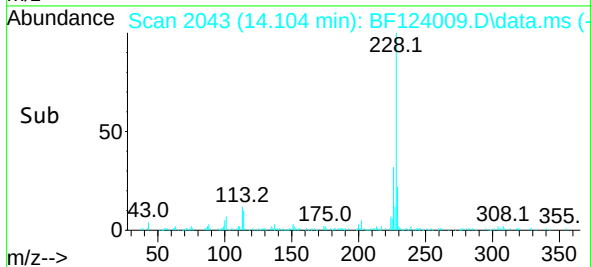
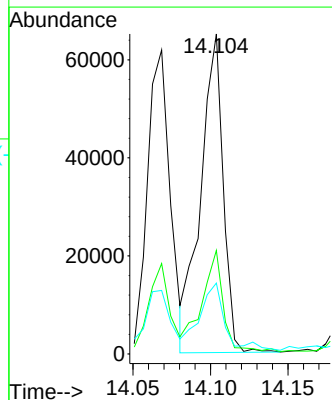
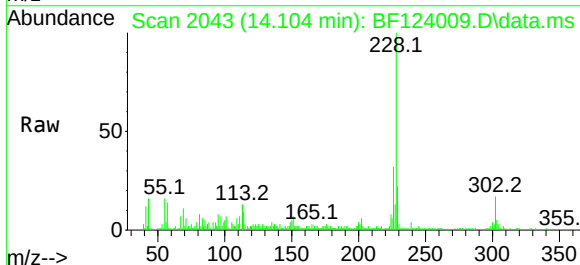
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

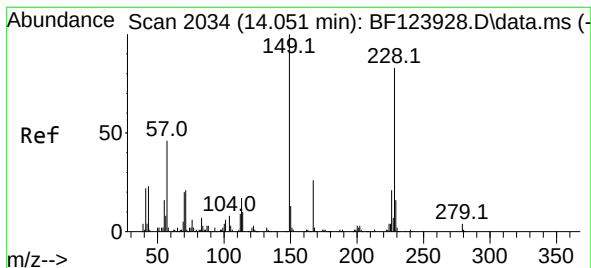
Tgt Ion:228 Resp: 65266
Ion Ratio Lower Upper
228 100
226 29.8 22.4 33.6
229 20.9 16.0 24.0



#83
Chrysene
Concen: 7.92 ng
RT: 14.104 min Scan# 2043
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:228 Resp: 65771
Ion Ratio Lower Upper
228 100
226 32.3 24.3 36.5
229 22.2 16.2 24.2

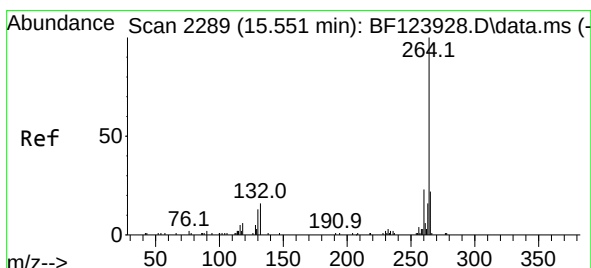
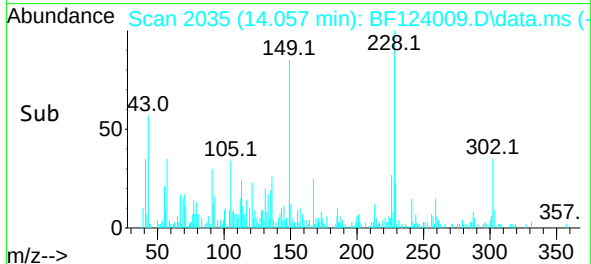
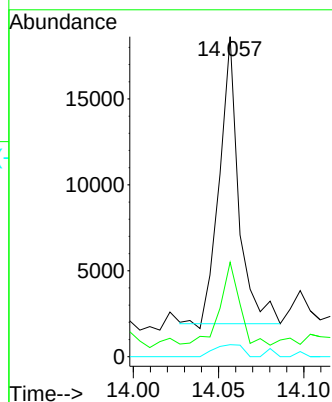
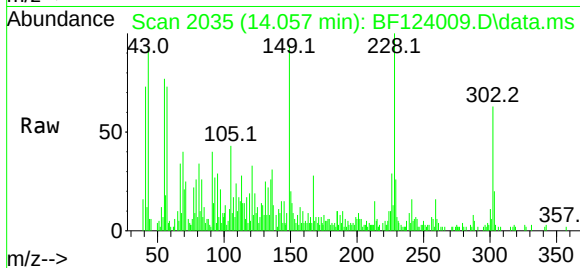




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.25 ng
RT: 14.057 min Scan# 2035
Delta R.T. 0.006 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

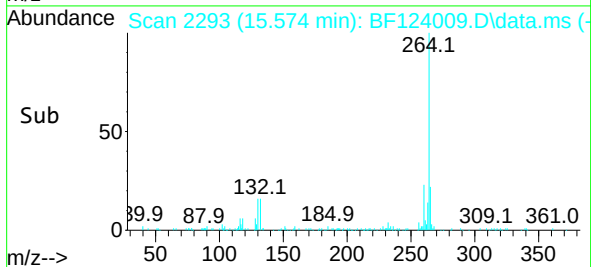
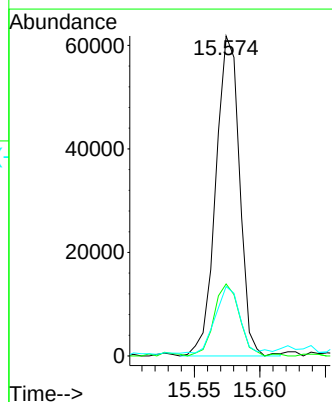
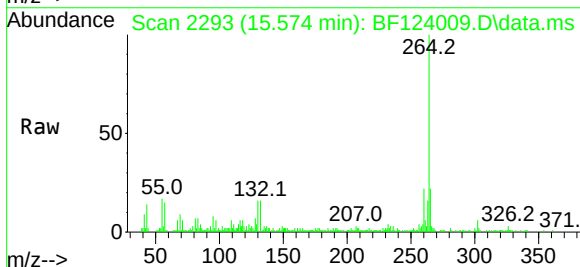
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

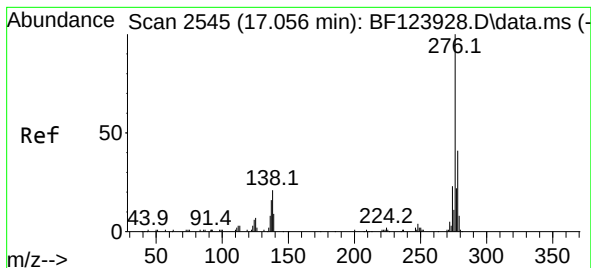
Tgt Ion:	149	Resp:	13177
Ion Ratio	Lower	Upper	
149	100		
167	29.5	21.8	32.6
279	3.8	3.3	4.9



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.574 min Scan# 2293
Delta R.T. 0.024 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:	264	Resp:	77585
Ion Ratio	Lower	Upper	
264	100		
260	22.5	18.7	28.1
265	21.7	17.8	26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.51 ng

RT: 17.086 min Scan# 2550

Delta R.T. 0.030 min

Lab File: BF124009.D

Acq: 20 May 2021 15:08

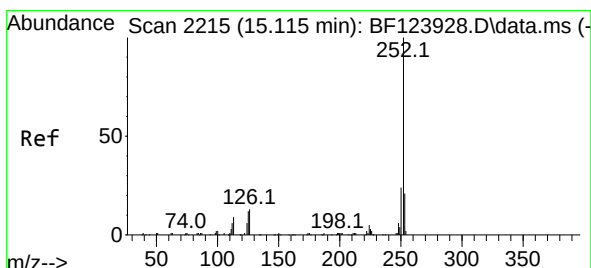
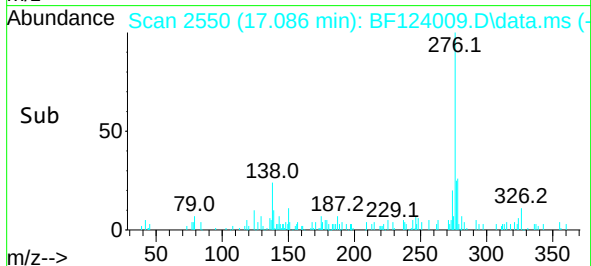
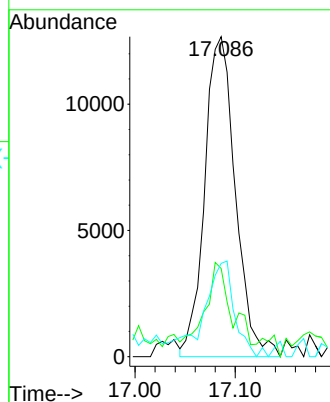
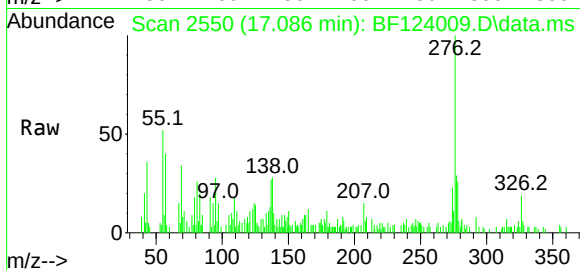
Tgt Ion:	276	Resp:	27017
Ion Ratio	Lower	Upper	
276	100		
138	21.7	16.2	24.2
277	29.7	20.1	30.1

Instrument :

BNA_F

ClientSampleId :

TOP-SOIL-COMPOSITE-PILE-3



#88

Benzo(b)fluoranthene

Concen: 14.82 ng

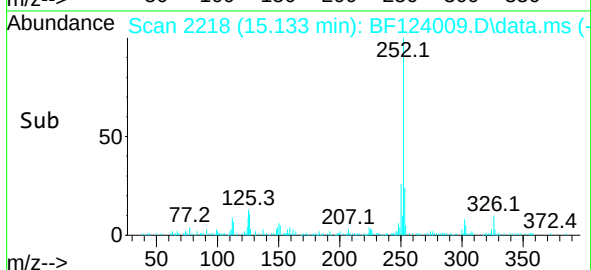
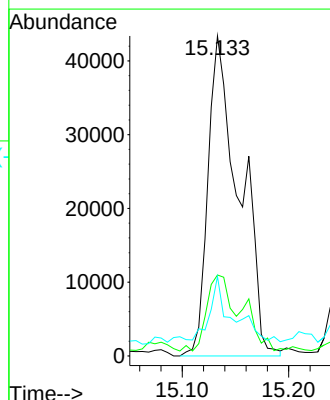
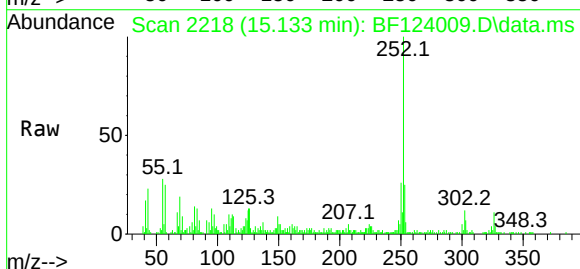
RT: 15.133 min Scan# 2218

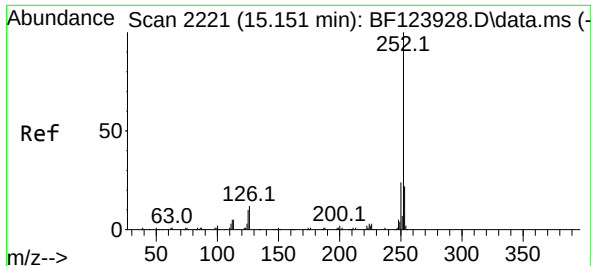
Delta R.T. 0.018 min

Lab File: BF124009.D

Acq: 20 May 2021 15:08

Tgt Ion:	252	Resp:	88931
Ion Ratio	Lower	Upper	
252	100		
253	25.3	18.1	27.1
125	24.9	6.2	9.4

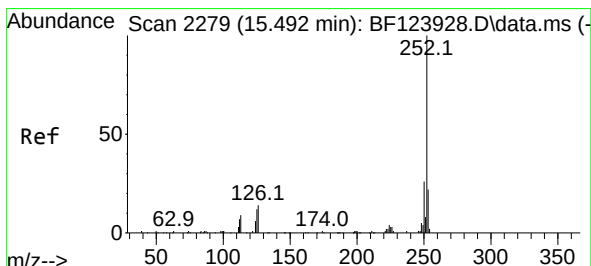
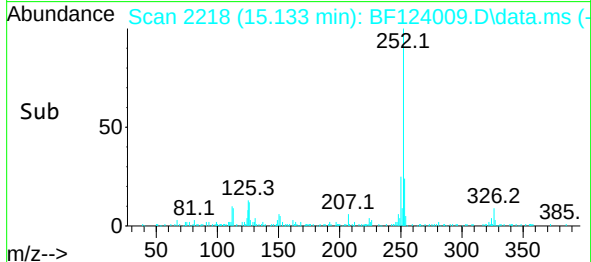
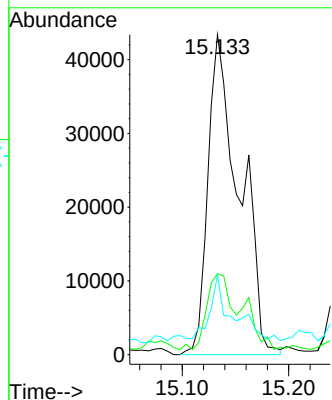
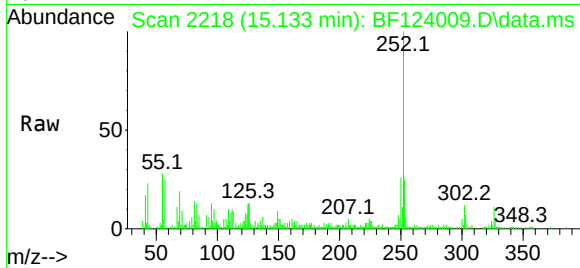




#89
Benzo(k)fluoranthene
Concen: 16.26 ng
RT: 15.133 min Scan# 2218
Delta R.T. -0.018 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

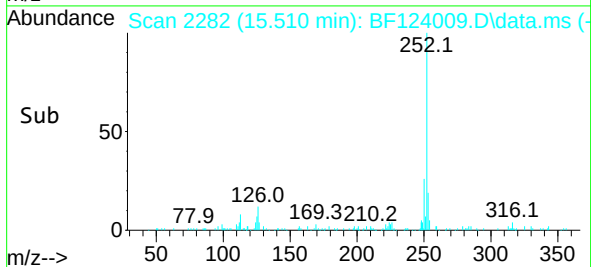
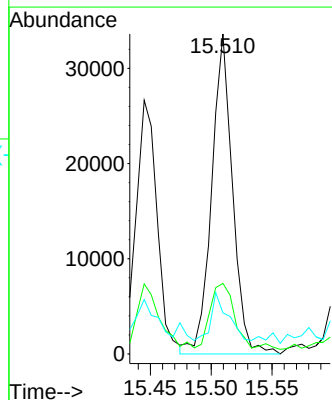
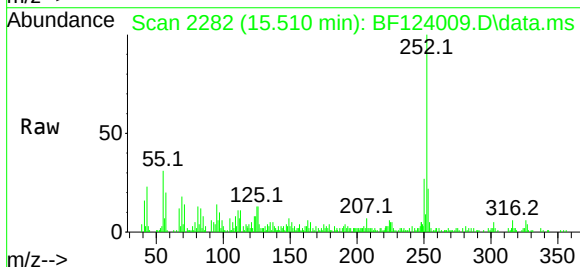
Instrument :
BNA_F
ClientSampleId :
TOP-SOIL-COMPOSITE-PILE-3

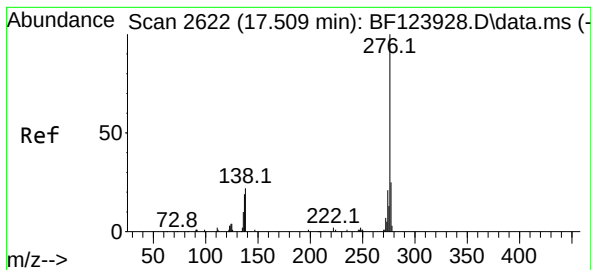
Tgt Ion:252 Resp: 88931
Ion Ratio Lower Upper
252 100
253 25.3 17.9 26.9
125 24.9 7.0 10.6#



#90
Benzo(a)pyrene
Concen: 7.75 ng
RT: 15.510 min Scan# 2282
Delta R.T. 0.018 min
Lab File: BF124009.D
Acq: 20 May 2021 15:08

Tgt Ion:252 Resp: 40214
Ion Ratio Lower Upper
252 100
253 22.0 18.4 27.6
125 12.9 8.0 12.0#





#92

Benzo(g,h,i)perylene

Concen: 4.66 ng

RT: 17.545 min Scan# 2628

Delta R.T. 0.035 min

Lab File: BF124009.D

Acq: 20 May 2021 15:08

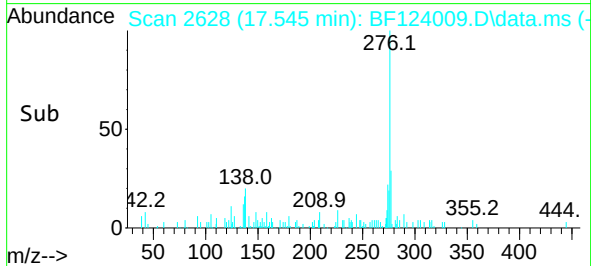
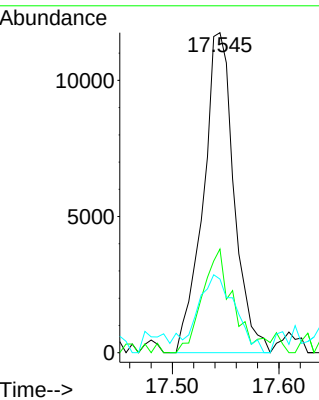
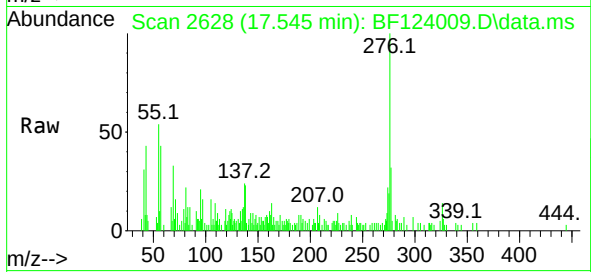
Tgt Ion: 276 Resp: 23573

Ion Ratio Lower Upper

276 100

277 32.4 18.2 27.2#

138 23.0 13.8 20.6#



Instrument :

BNA_F

ClientSampleId :

TOP-SOIL-COMPOSITE-PILE-3