

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061523\
 Data File : BF133802.D
 Acq On : 16 Jun 2023 05:46
 Operator : CG\JU
 Sample : 03164-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

Quant Time: Jun 16 06:23:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 15 15:12:57 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

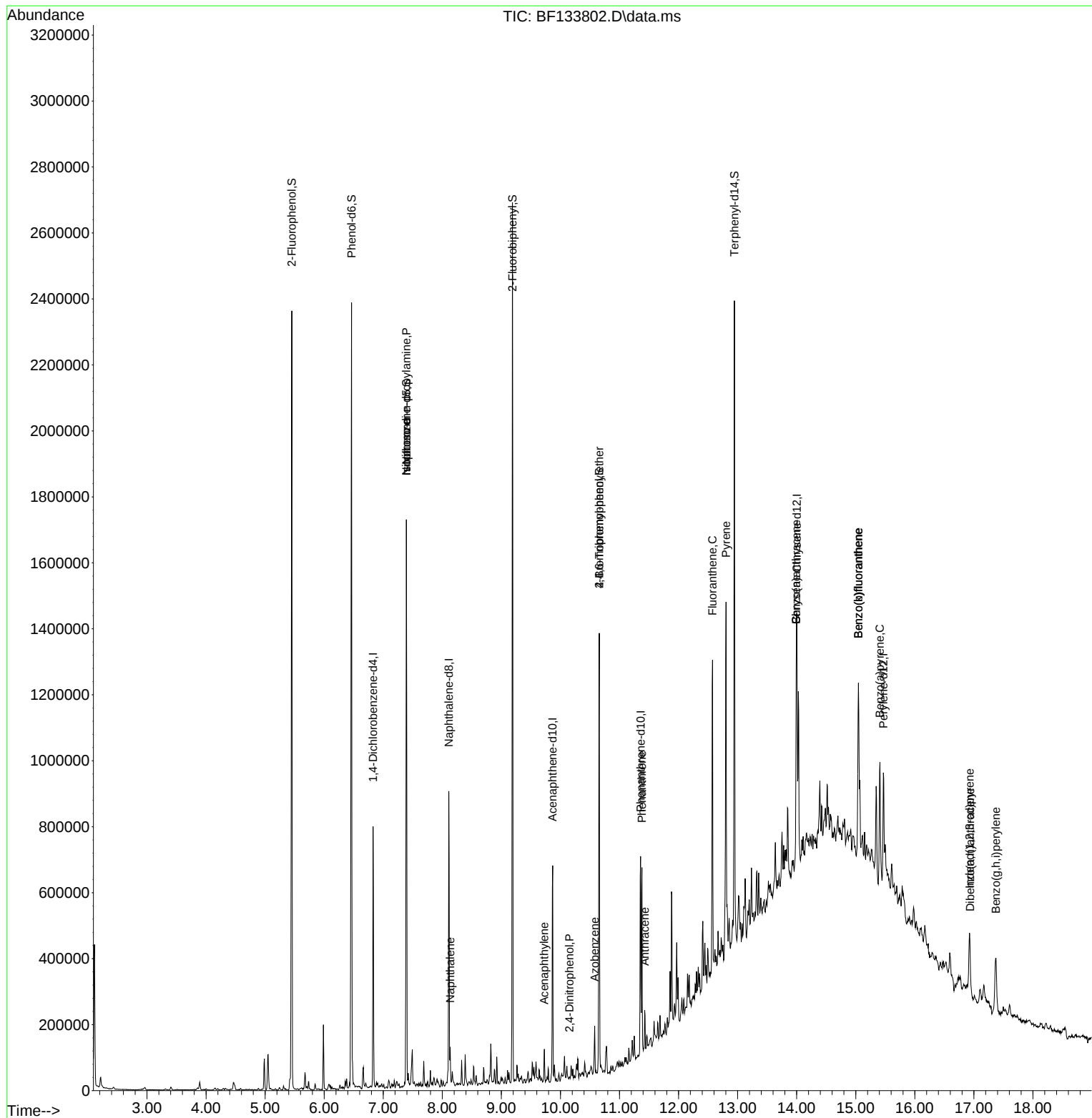
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	103988	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	351796	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	128470	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	227200	20.000	ng	0.00
76) Chrysene-d12	14.004	240	175518	20.000	ng	0.00
86) Perylene-d12	15.468	264	159265	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	574366	96.157	ng	0.01
7) Phenol-d6	6.463	99	716444	92.146	ng	0.00
23) Nitrobenzene-d5	7.392	82	492939	76.319	ng	0.00
42) 2,4,6-Tribromophenol	10.657	330	149036	91.647	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	723573	80.063	ng	0.00
79) Terphenyl-d14	12.945	244	607858	53.588	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.392	70	68661	13.880	ng	# 78
25) Isophorone	7.392	82	492939	41.571	ng	# 65
31) Naphthalene	8.133	128	36112	2.107	ng	99
49) Acenaphthylene	9.727	152	33318	2.576	ng	97
54) 2,4-Dinitrophenol	10.151	184	345	6.048	ng	# 51
63) Azobenzene	10.580	77	21603	2.338	ng	# 1
67) 4-Bromophenyl-phenylether	10.657	248	9183	3.621	ng	# 1
71) Phenanthrene	11.380	178	201697	17.498	ng	98
72) Anthracene	11.427	178	48893	4.068	ng	98
75) Fluoranthene	12.574	202	385779	31.516	ng	99
78) Pyrene	12.804	202	456059	27.893	ng	99
81) Benzo(a)anthracene	13.992	228	225740	18.594	ng	94
83) Chrysene	13.992	228	225740	19.659	ng	97
87) Indeno(1,2,3-cd)pyrene	16.927	276	124436	11.357	ng	98
88) Benzo(b)fluoranthene	15.045	252	327497	33.851	ng	# 94
89) Benzo(k)fluoranthene	15.045	252	327497	34.750	ng	# 95
90) Benzo(a)pyrene	15.409	252	176590	19.667	ng	98
91) Dibenzo(a,h)anthracene	16.939	278	32755	3.611	ng	# 90
92) Benzo(g,h,i)perylene	17.374	276	134249	14.927	ng	97

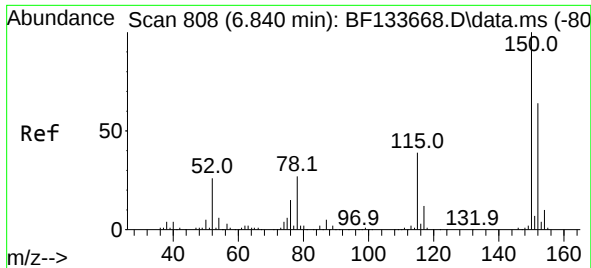
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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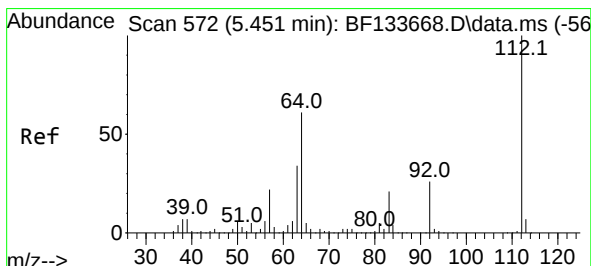
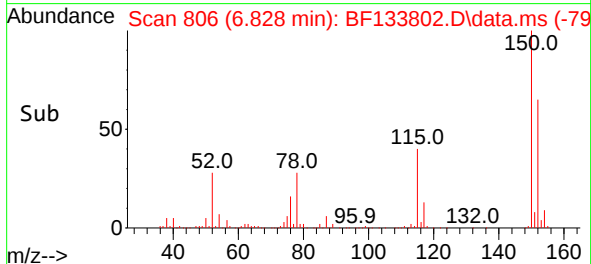
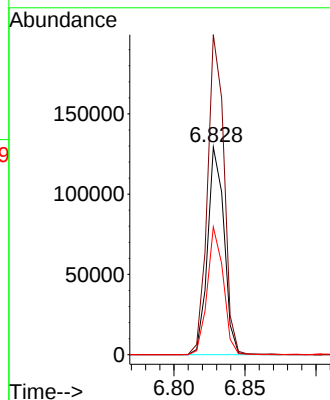
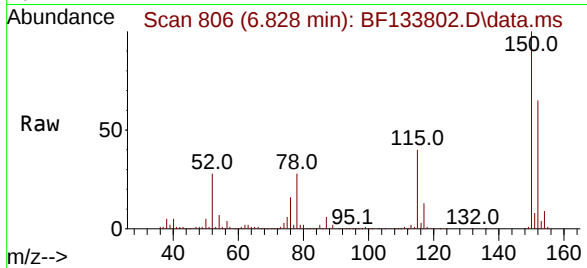




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 808
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

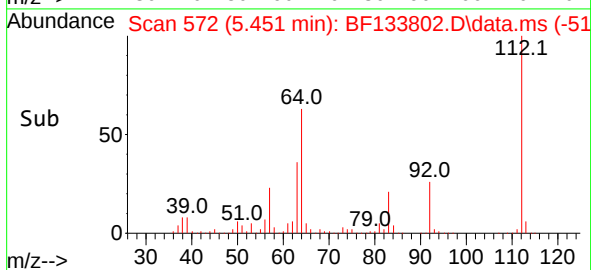
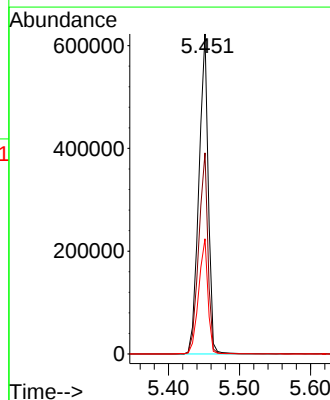
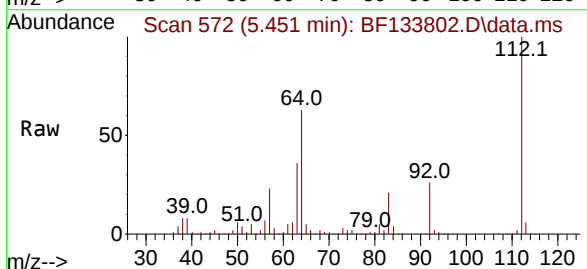
Instrument :
BNA_F
ClientSampleId :
SOIL-001

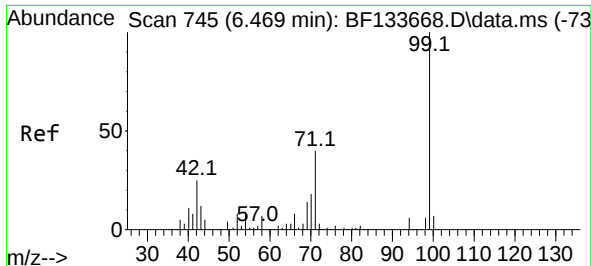
Tgt Ion:152 Resp: 103988
Ion Ratio Lower Upper
152 100
150 154.1 124.3 186.5
115 61.5 48.5 72.7



#5
2-Fluorophenol
Concen: 96.157 ng
RT: 5.451 min Scan# 572
Delta R.T. 0.012 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion:112 Resp: 574366
Ion Ratio Lower Upper
112 100
64 62.9 49.0 73.4
63 36.0 26.8 40.2

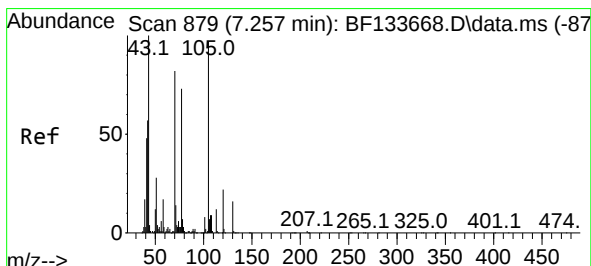
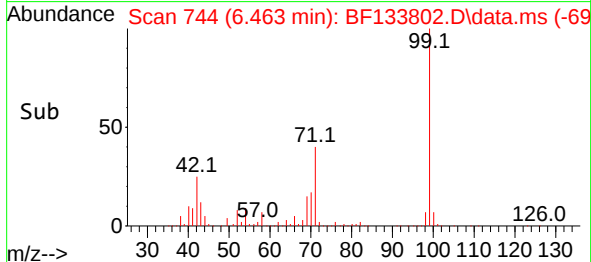
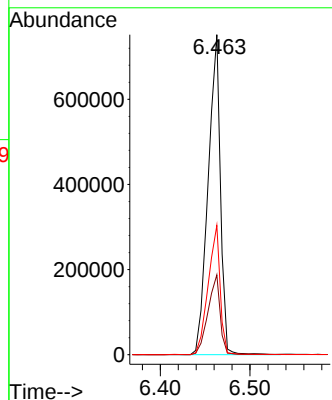
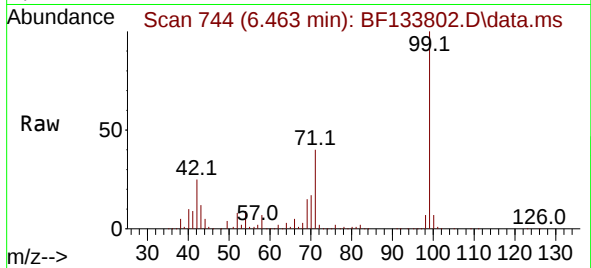




#7
Phenol-d6
Concen: 92.146 ng
RT: 6.463 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

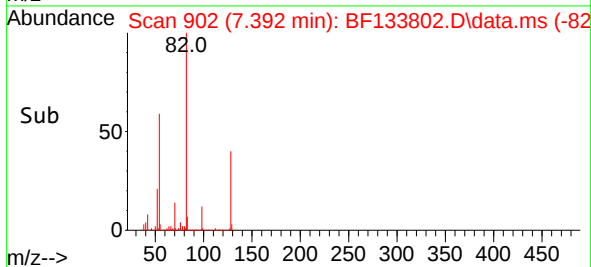
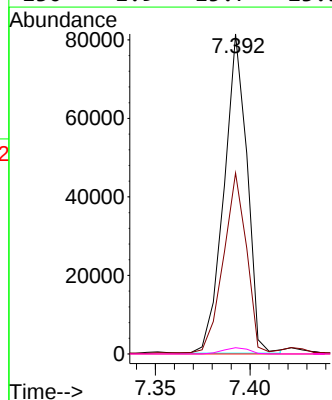
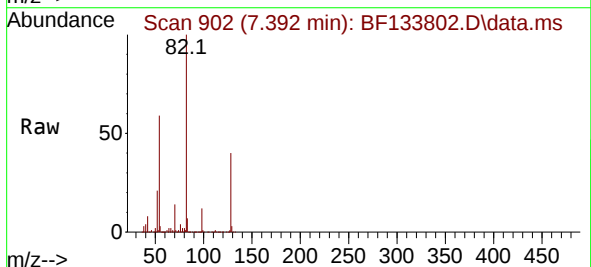
Instrument :
BNA_F
ClientSampleId :
SOIL-001

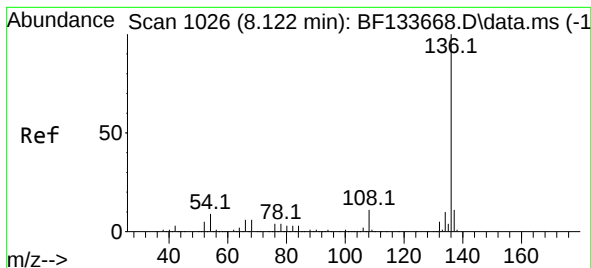
Tgt Ion: 99 Resp: 716444
Ion Ratio Lower Upper
99 100
42 24.9 19.9 29.9
71 40.4 32.2 48.4



#19
n-Nitroso-di-n-propylamine
Concen: 13.880 ng
RT: 7.392 min Scan# 902
Delta R.T. 0.147 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion: 70 Resp: 68661
Ion Ratio Lower Upper
70 100
42 56.5 55.8 83.8
101 0.0 8.1 12.1#
130 1.9 15.7 23.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.110 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

Tgt Ion:136 Resp: 351796

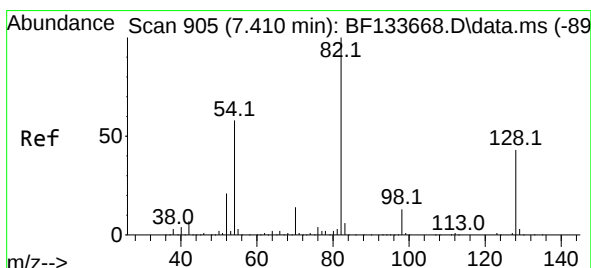
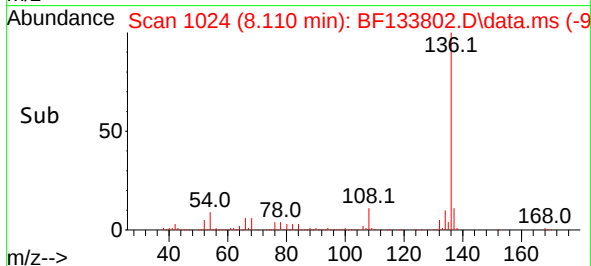
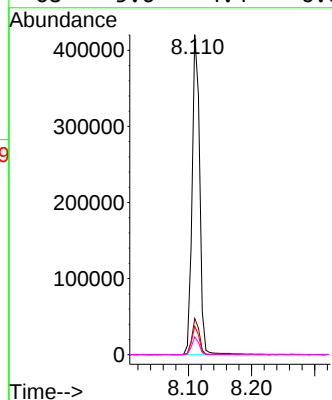
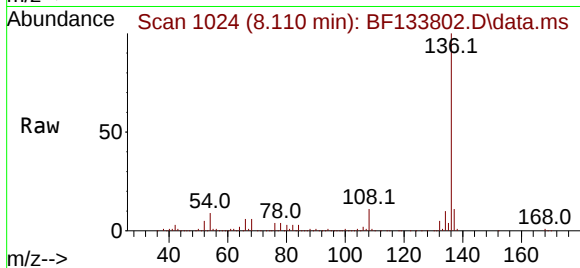
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 8.8 7.4 11.0

68 5.6 4.4 6.6



#23

Nitrobenzene-d5

Concen: 76.319 ng

RT: 7.392 min Scan# 902

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

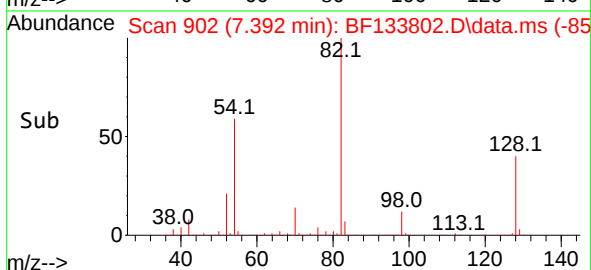
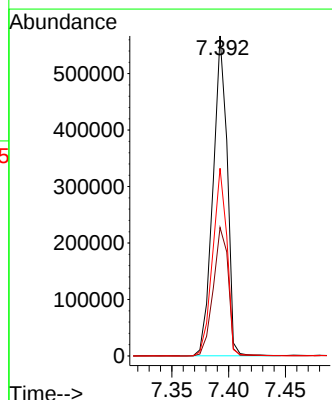
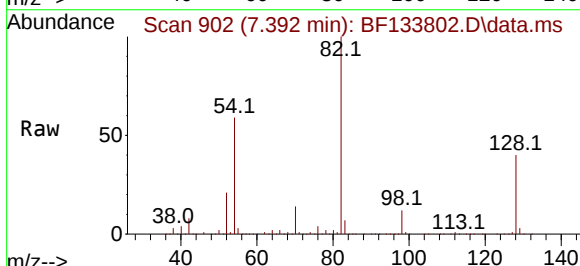
Tgt Ion: 82 Resp: 492939

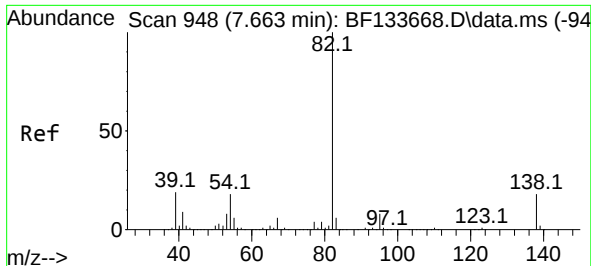
Ion Ratio Lower Upper

82 100

128 40.2 34.2 51.2

54 58.7 46.5 69.7

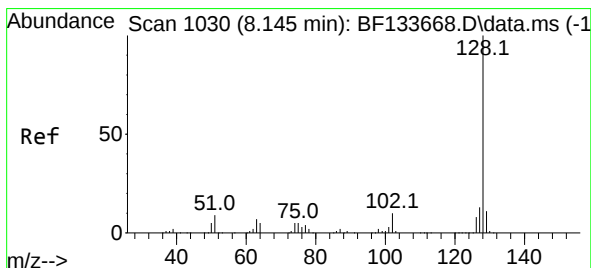
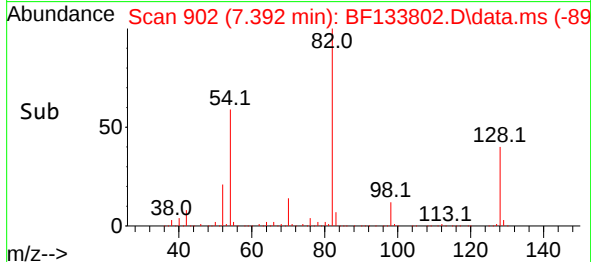
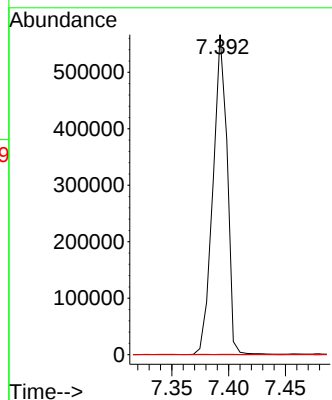
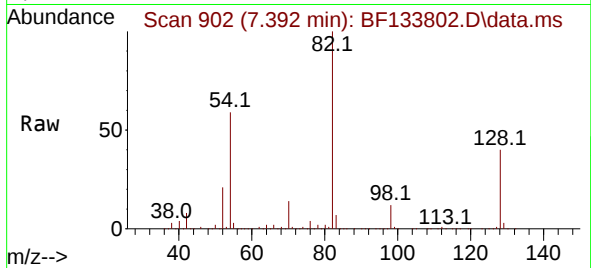




#25
Isophorone
Concen: 41.571 ng
RT: 7.392 min Scan# 90
Delta R.T. -0.259 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

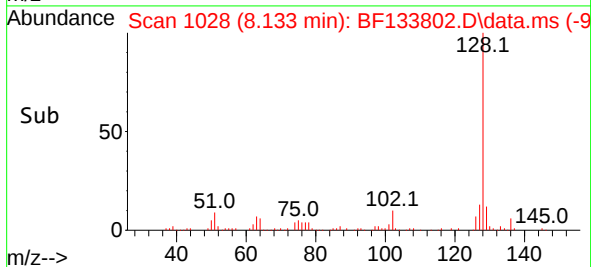
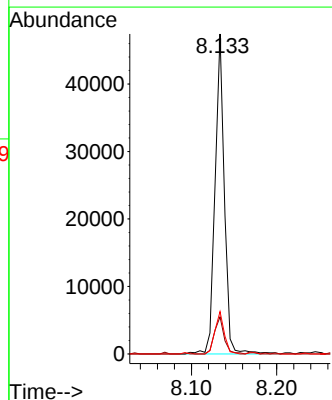
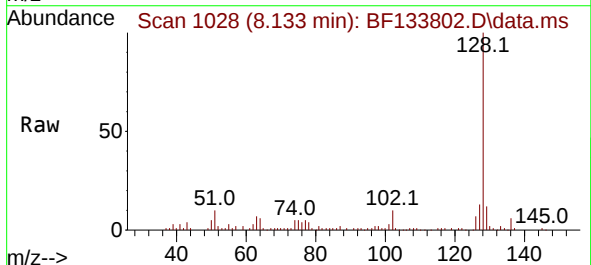
Instrument :
BNA_F
ClientSampleId :
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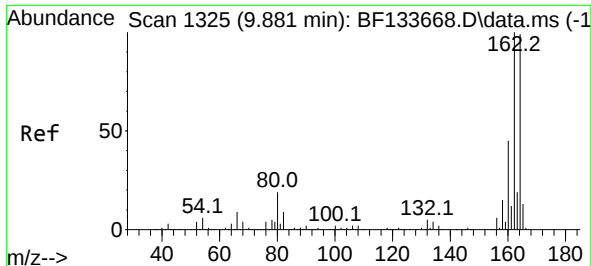
Tgt Ion: 82 Resp: 492939
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 14.2 21.2#



#31
Naphthalene
Concen: 2.107 ng
RT: 8.133 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion:128 Resp: 36112
Ion Ratio Lower Upper
128 100
129 11.6 8.9 13.3
127 13.3 10.5 15.7

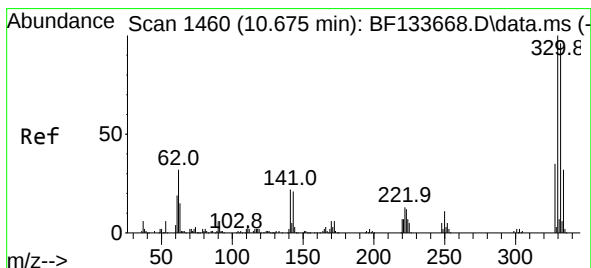
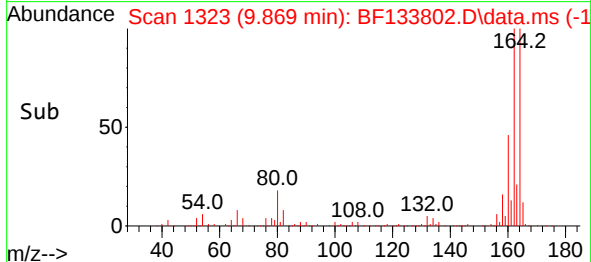
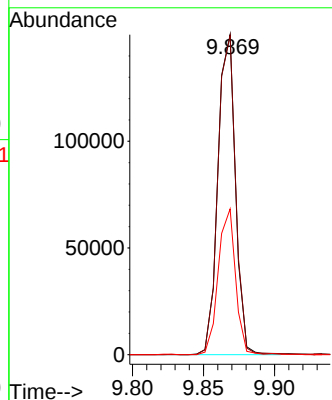
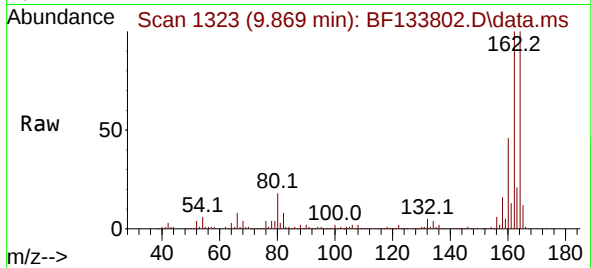




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

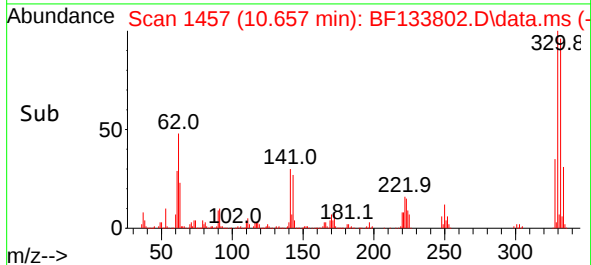
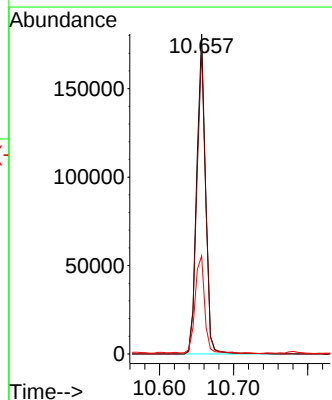
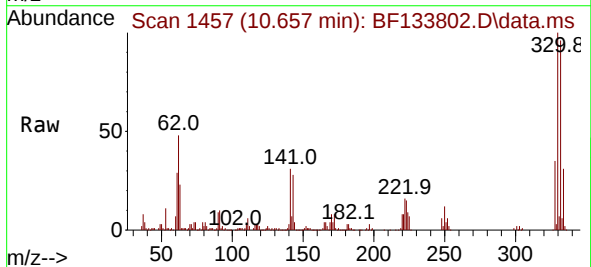
Instrument :
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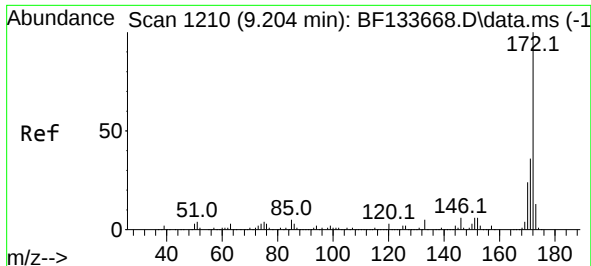
Tgt Ion:164 Resp: 128470
Ion Ratio Lower Upper
164 100
162 99.7 80.8 121.2
160 45.5 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 91.647 ng
RT: 10.657 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion:330 Resp: 149036
Ion Ratio Lower Upper
330 100
332 95.5 77.2 115.8
141 32.9 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 80.063 ng

RT: 9.186 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

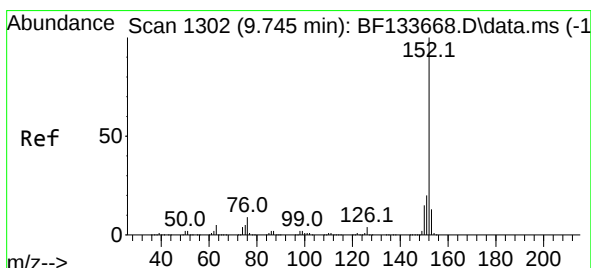
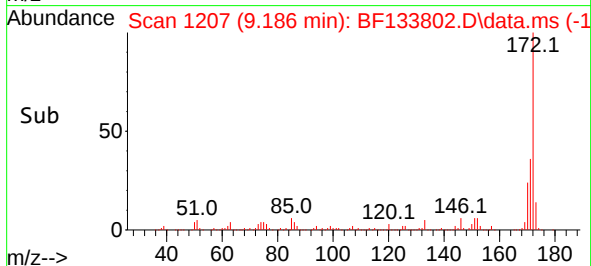
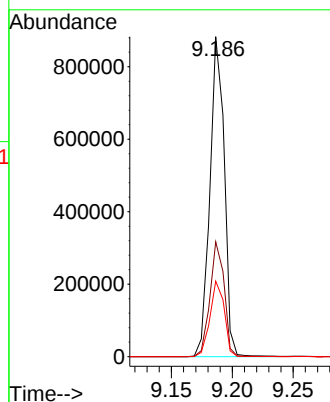
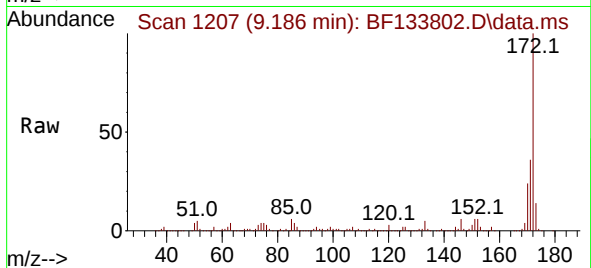
Tgt Ion:172 Resp: 723573

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

170 23.6 19.1 28.7



#49

Acenaphthylene

Concen: 2.576 ng

RT: 9.727 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

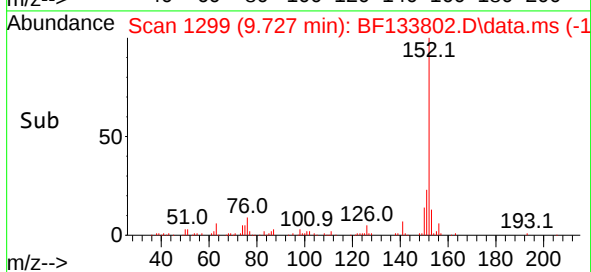
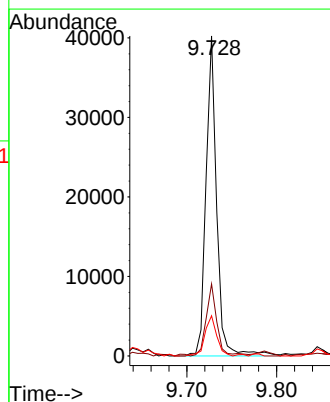
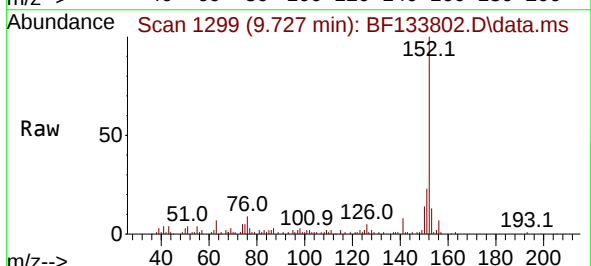
Tgt Ion:152 Resp: 33318

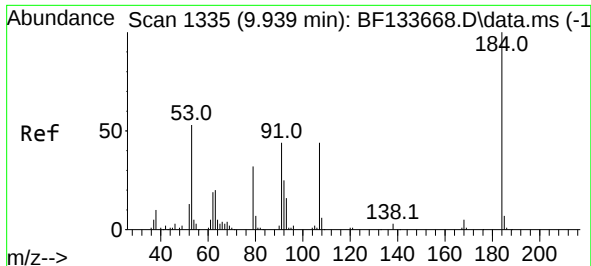
Ion Ratio Lower Upper

152 100

151 22.5 16.2 24.4

153 12.5 10.4 15.6

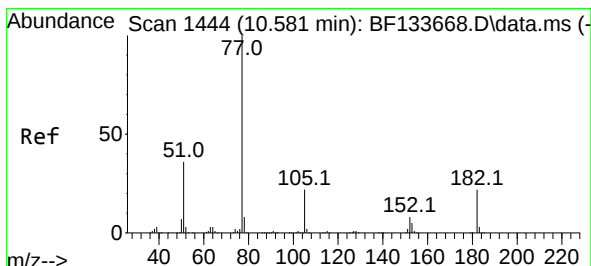
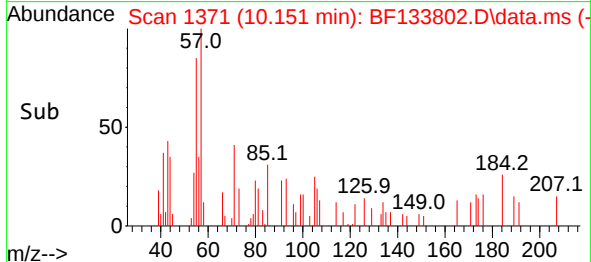
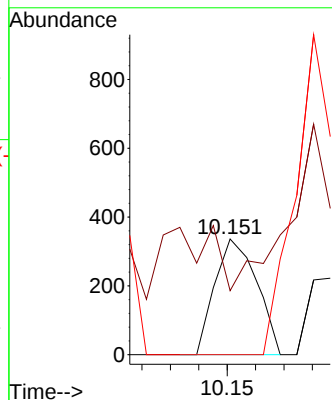
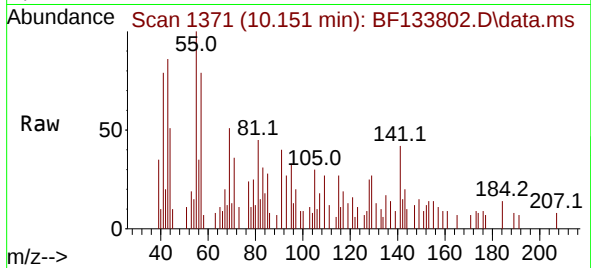




#54
2,4-Dinitrophenol
Concen: 6.048 ng
RT: 10.151 min Scan# 11
Delta R.T. 0.217 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

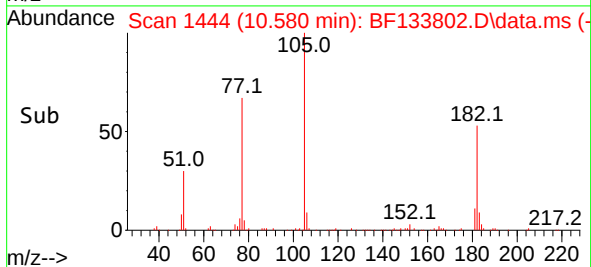
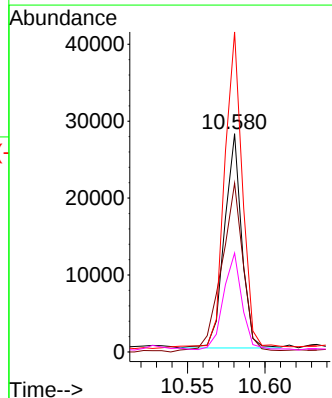
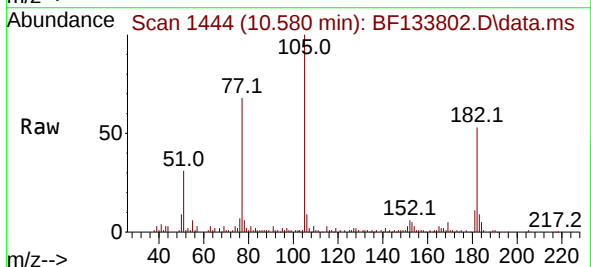
Instrument :
BNA_F
ClientSampleId :
SOIL-001

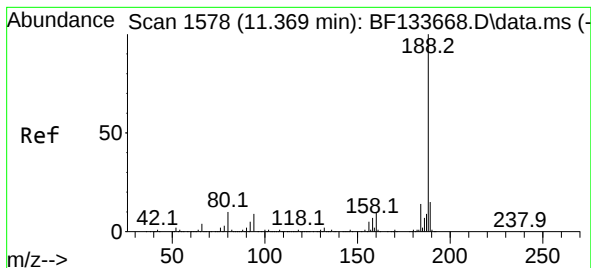
Tgt Ion:184 Resp: 345
Ion Ratio Lower Upper
184 100
63 55.4 55.3 82.9
154 0.0 51.9 77.9#



#63
Azobenzene
Concen: 2.338 ng
RT: 10.580 min Scan# 1444
Delta R.T. 0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion: 77 Resp: 21603
Ion Ratio Lower Upper
77 100
182 77.4 1.6 41.6#
105 146.6 1.6 41.6#
51 45.3 15.5 55.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

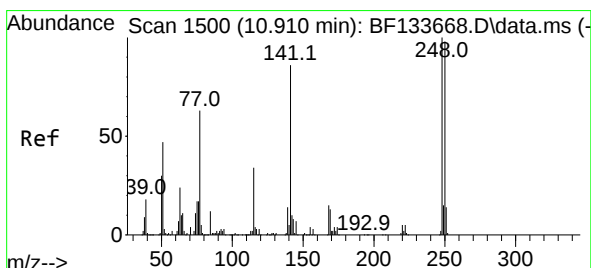
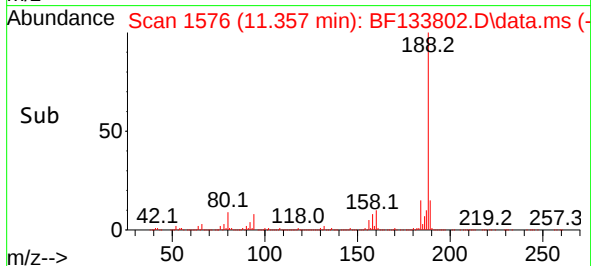
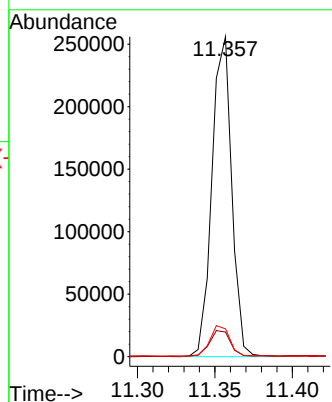
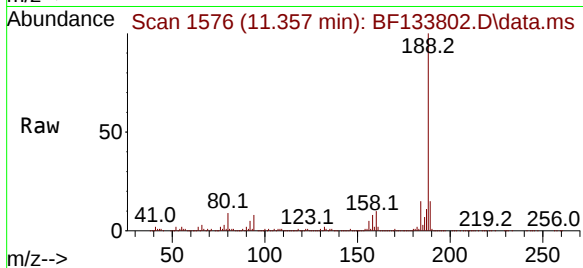
Tgt Ion:188 Resp: 227200

Ion Ratio Lower Upper

188 100

94 7.7 6.8 10.2

80 8.7 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 3.621 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.247 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

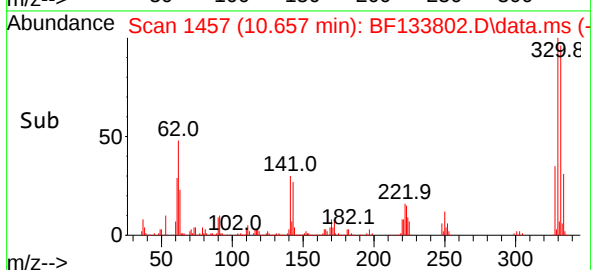
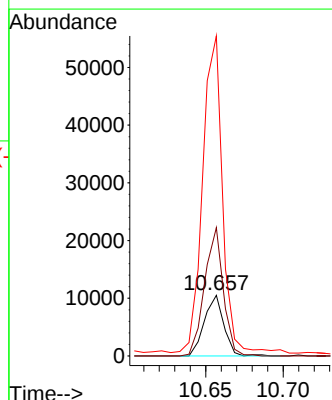
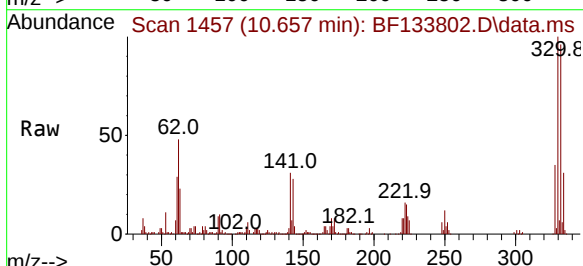
Tgt Ion:248 Resp: 9183

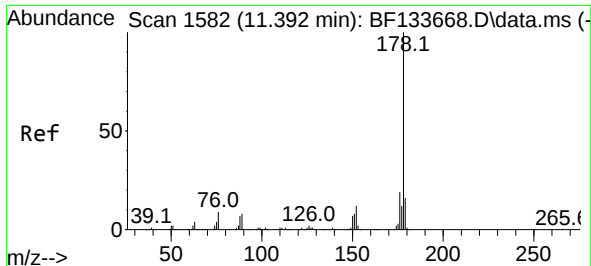
Ion Ratio Lower Upper

248 100

250 211.5 78.3 117.5#

141 527.3 69.0 103.6#

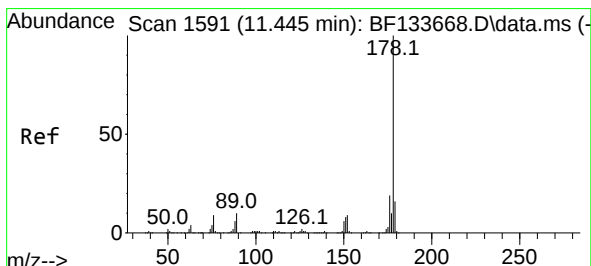
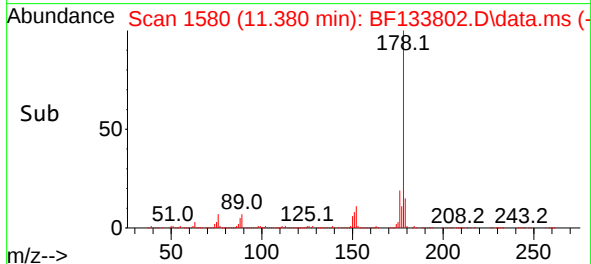
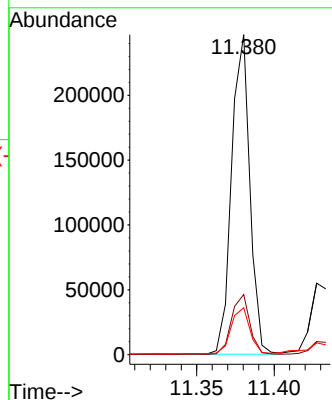
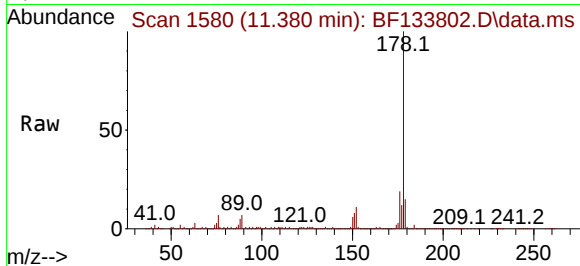




#71
Phenanthrene
Concen: 17.498 ng
RT: 11.380 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

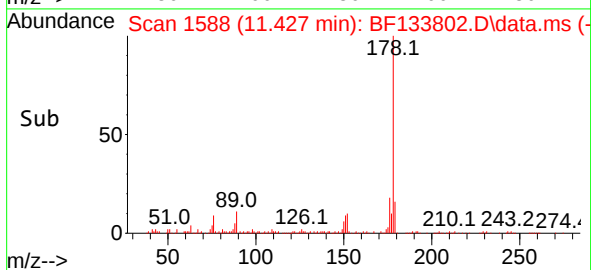
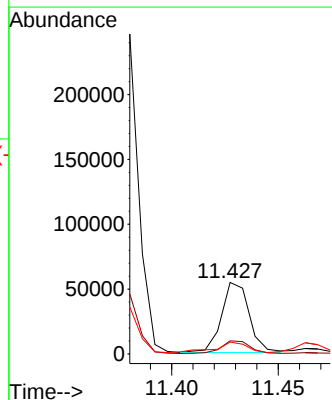
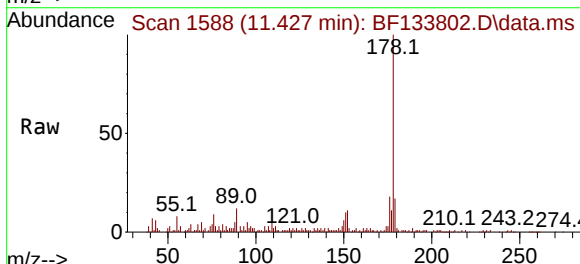
Instrument :
BNA_F
ClientSampleId :
SOIL-001

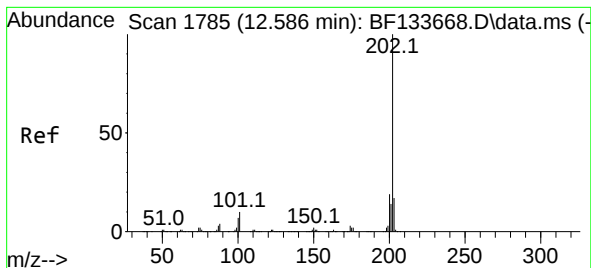
Tgt Ion:178 Resp: 201697
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 14.6 12.4 18.6



#72
Anthracene
Concen: 4.068 ng
RT: 11.427 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion:178 Resp: 48893
Ion Ratio Lower Upper
178 100
176 18.3 15.1 22.7
179 16.6 12.6 18.8





#75

Fluoranthene

Concen: 31.516 ng

RT: 12.574 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

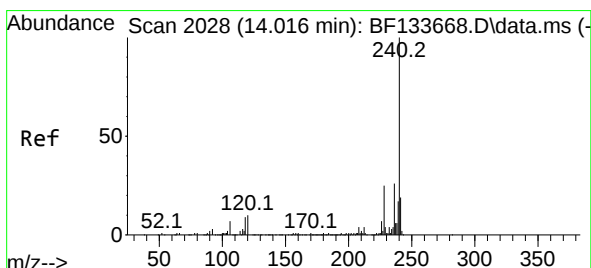
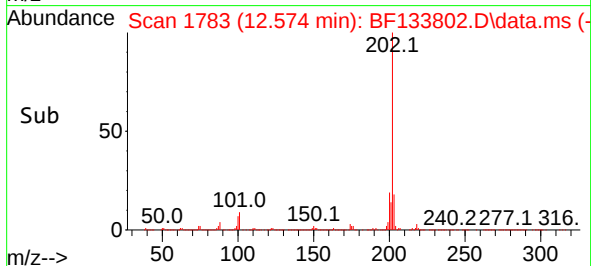
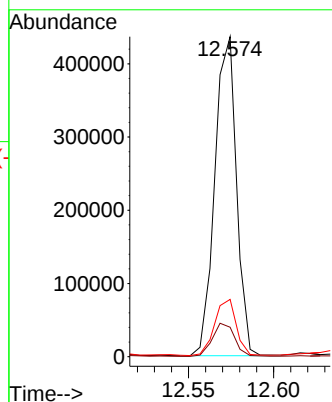
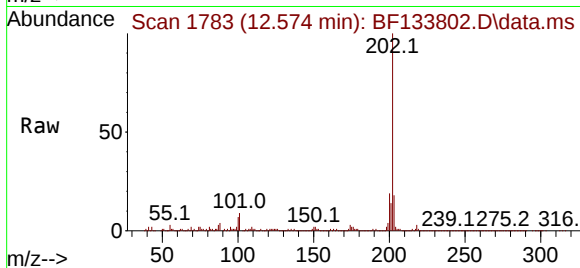
Tgt Ion:202 Resp: 385779

Ion Ratio Lower Upper

202 100

101 9.2 0.0 29.6

203 17.9 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.004 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

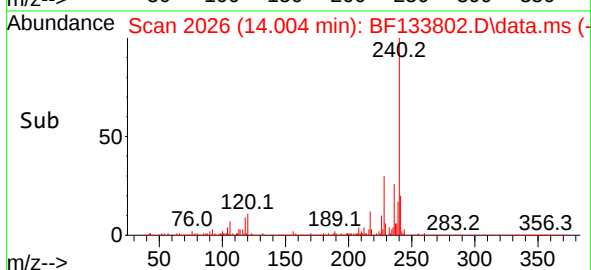
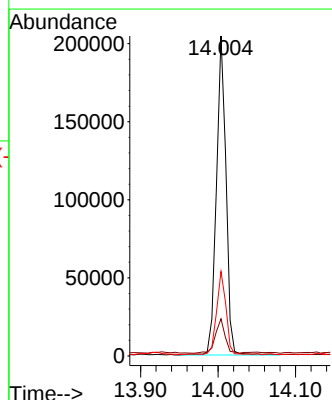
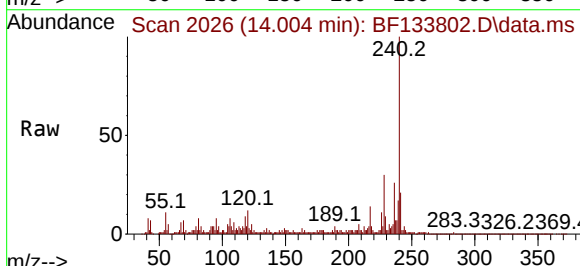
Tgt Ion:240 Resp: 175518

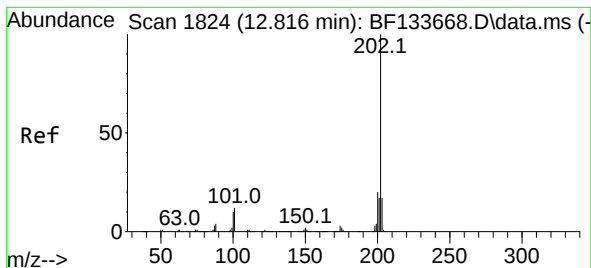
Ion Ratio Lower Upper

240 100

120 11.6 8.1 12.1

236 26.4 20.5 30.7





#78

Pyrene

Concen: 27.893 ng

RT: 12.804 min Scan# 1822

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

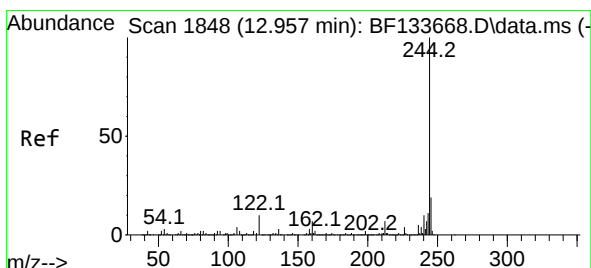
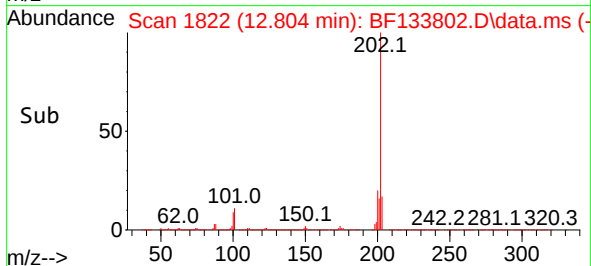
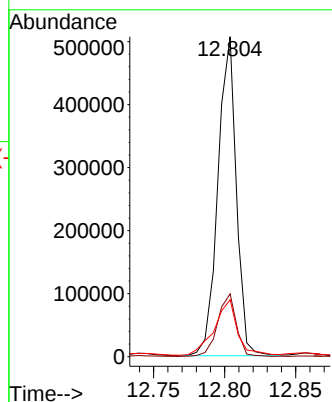
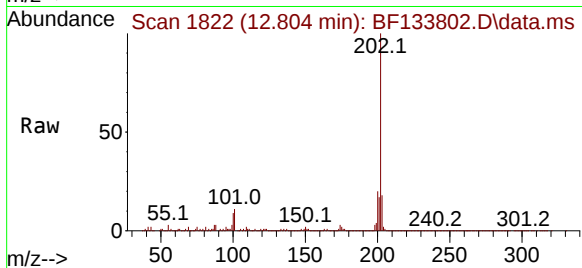
Tgt Ion:202 Resp: 456059

Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

203 17.8 13.9 20.9



#79

Terphenyl-d14

Concen: 53.588 ng

RT: 12.945 min Scan# 1846

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

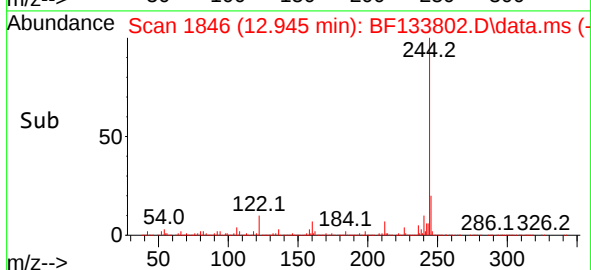
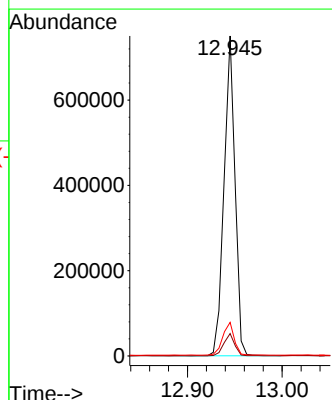
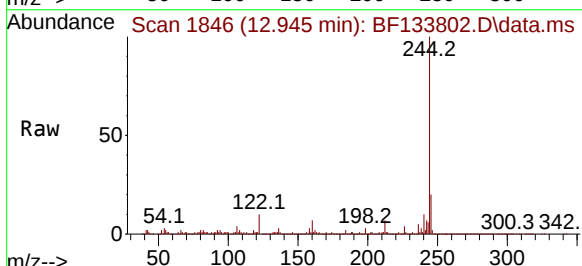
Tgt Ion:244 Resp: 607858

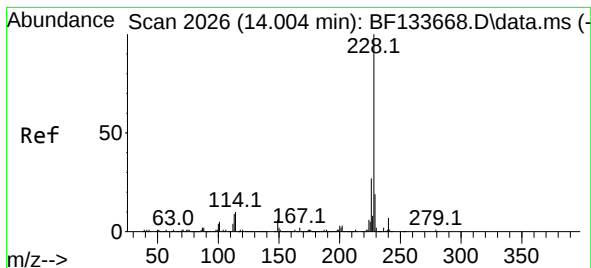
Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.2

122 10.5 8.1 12.1





#81

Benzo(a)anthracene

Concen: 18.594 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

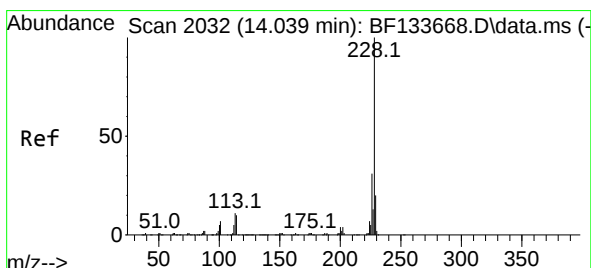
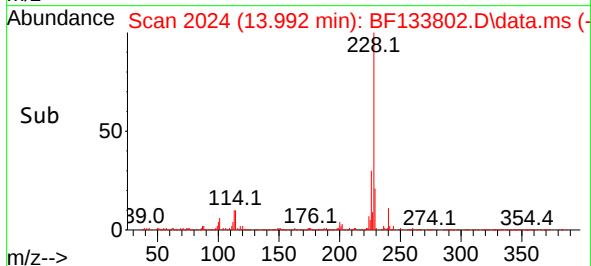
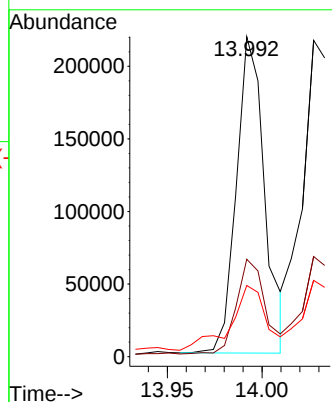
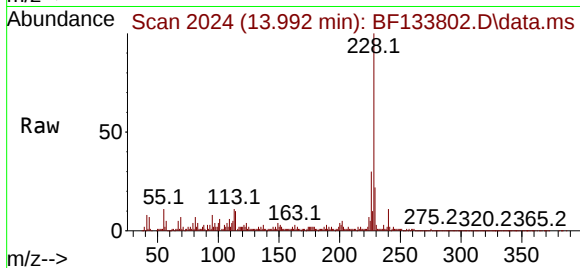
Tgt Ion:228 Resp: 225740

Ion Ratio Lower Upper

228 100

226 30.5 21.7 32.5

229 22.2 15.4 23.2



#83

Chrysene

Concen: 19.659 ng

RT: 13.992 min Scan# 2024

Delta R.T. -0.035 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

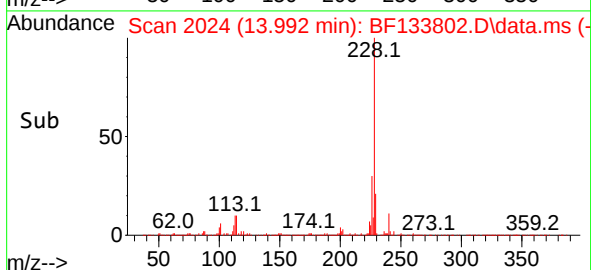
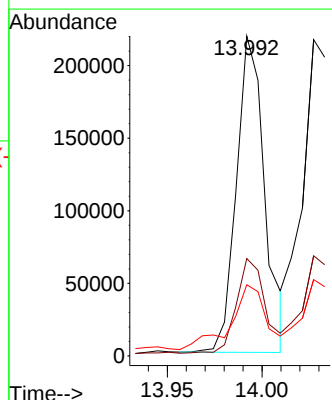
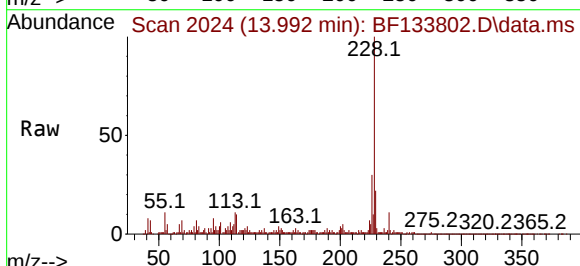
Tgt Ion:228 Resp: 225740

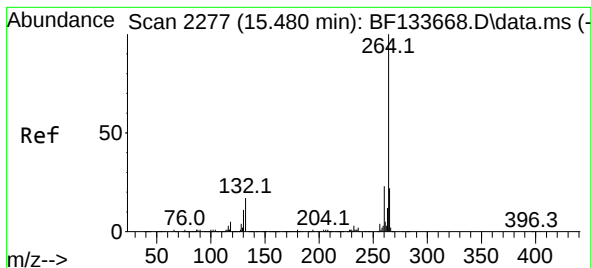
Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

229 22.2 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

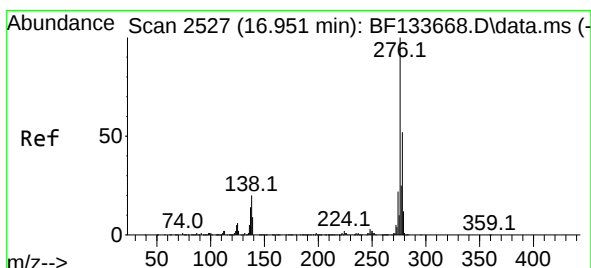
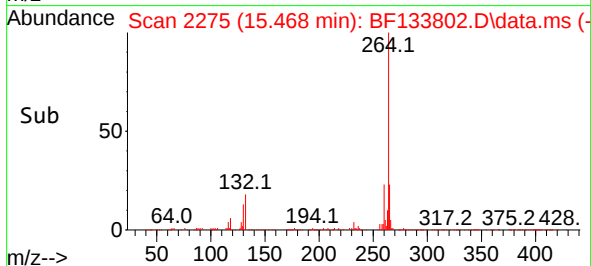
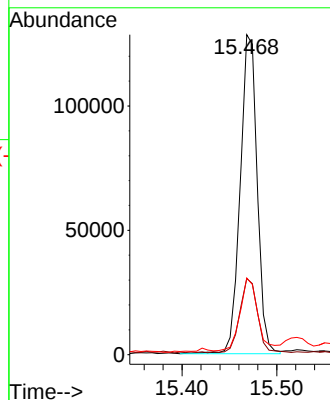
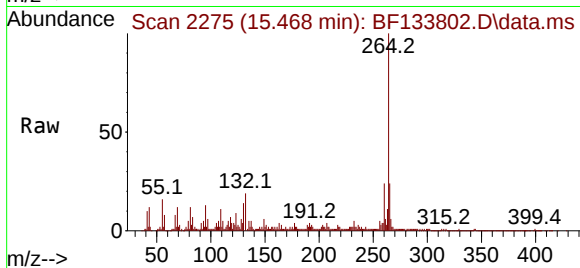
Tgt Ion:264 Resp: 159265

Ion Ratio Lower Upper

264 100

260 23.8 18.2 27.2

265 24.0 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.357 ng

RT: 16.927 min Scan# 2523

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

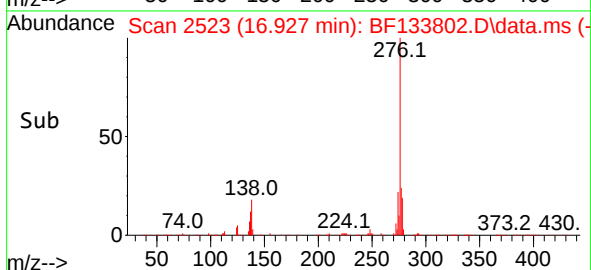
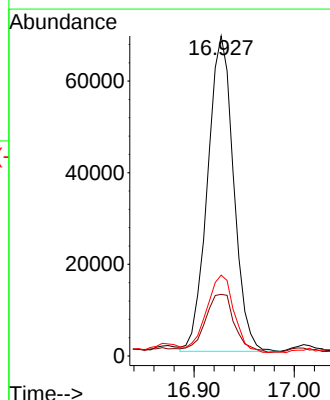
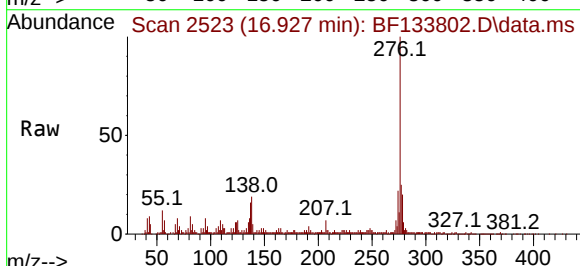
Tgt Ion:276 Resp: 124436

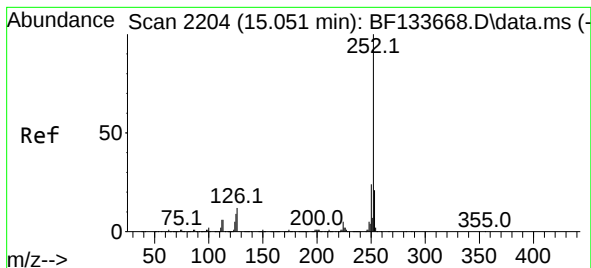
Ion Ratio Lower Upper

276 100

138 20.5 17.9 26.9

277 25.8 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 33.851 ng

RT: 15.045 min Scan# 2203

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

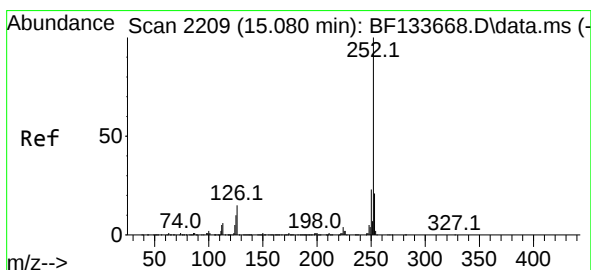
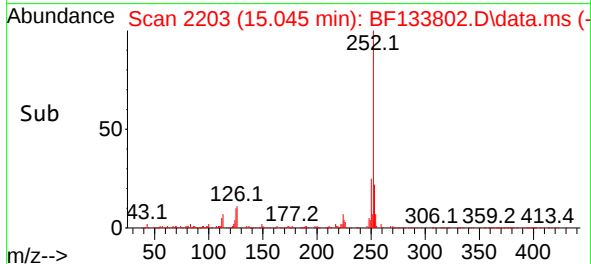
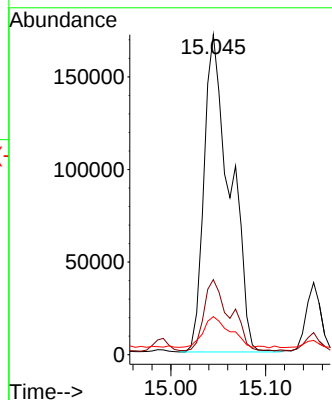
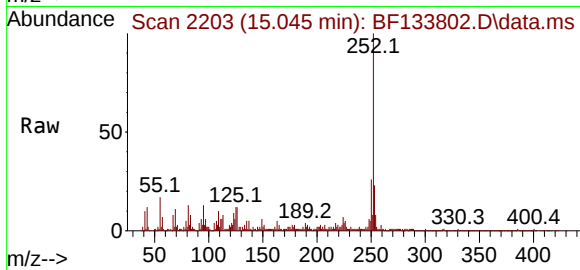
Tgt Ion:252 Resp: 327497

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

125 11.9 7.3 10.9#



#89

Benzo(k)fluoranthene

Concen: 34.750 ng

RT: 15.045 min Scan# 2203

Delta R.T. -0.024 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

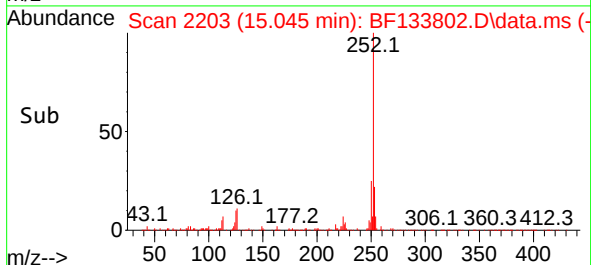
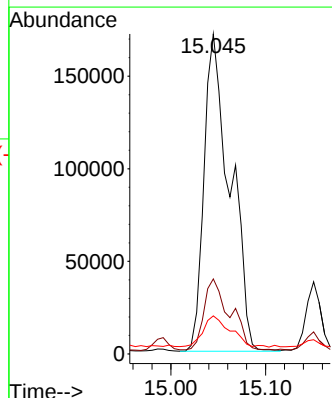
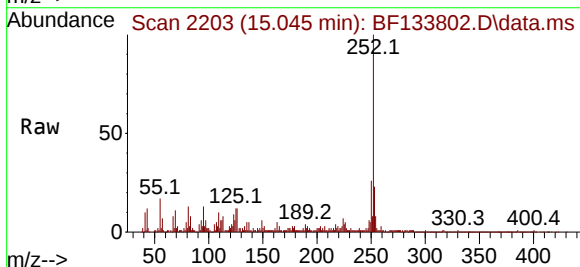
Tgt Ion:252 Resp: 327497

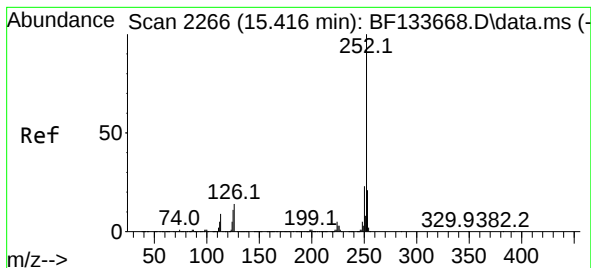
Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.4

125 11.9 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 19.667 ng

RT: 15.409 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

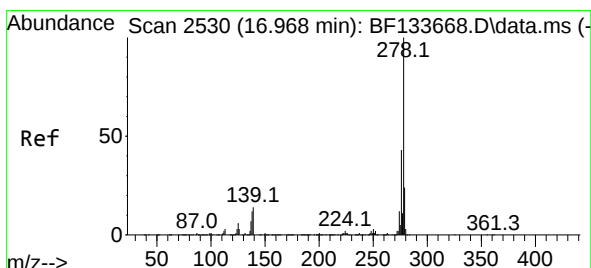
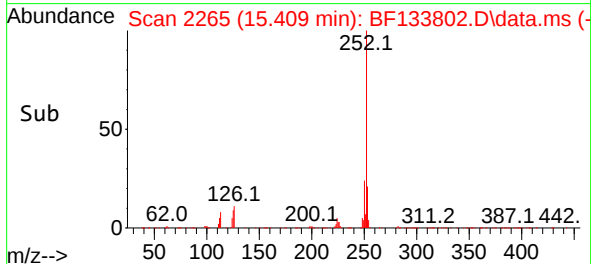
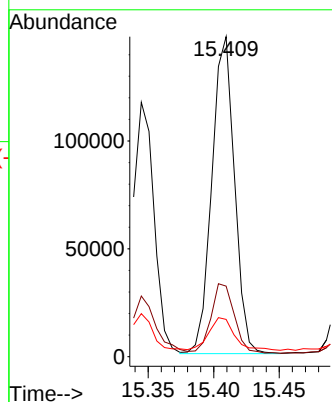
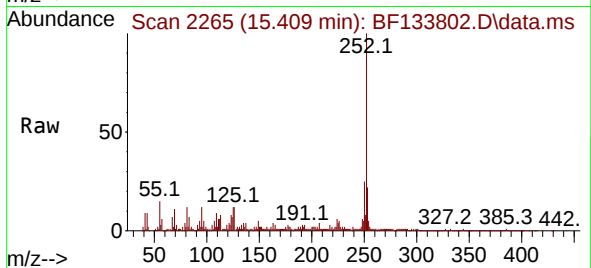
Tgt Ion:252 Resp: 176590

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

125 11.6 8.6 13.0



#91

Dibenzo(a,h)anthracene

Concen: 3.611 ng

RT: 16.939 min Scan# 2525

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

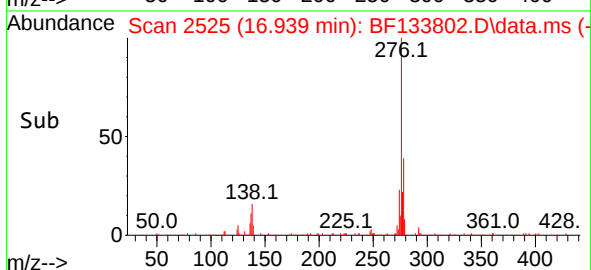
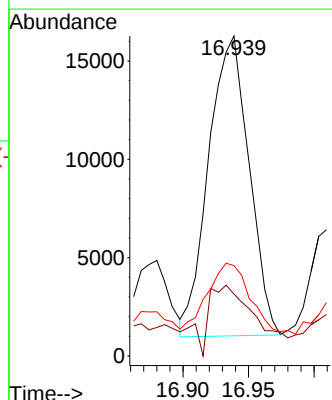
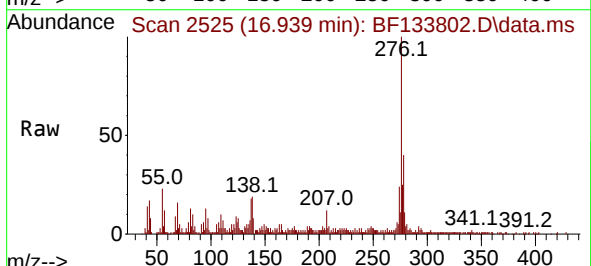
Tgt Ion:278 Resp: 32755

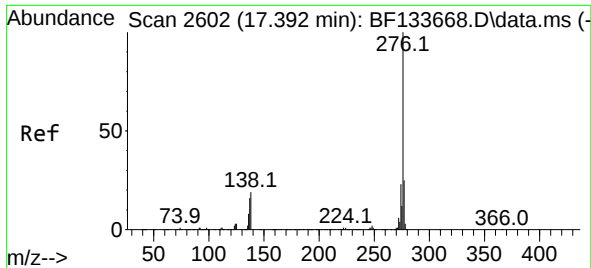
Ion Ratio Lower Upper

278 100

139 19.3 11.4 17.2#

279 28.2 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 14.927 ng
 RT: 17.374 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BF133802.D
 Acq: 16 Jun 2023 05:46

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

Tgt Ion:276 Resp: 134249

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.8	29.8
138	19.5	15.0	22.4

