

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

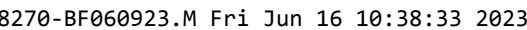
Quant Time: Jun 16 06:23:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 15 15:12:57 2023
 Response via : Initial Calibration

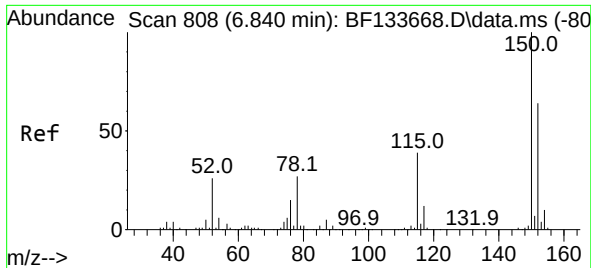
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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
31) Naphthalene	8.133	128	36112	2.107	ng	99
49) Acenaphthylene	9.727	152	33318	2.576	ng	97
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	14.027	228	225984m	19.680	ng	
87) Indeno(1,2,3-cd)pyrene	16.927	276	124436	11.357	ng	98
88) Benzo(b)fluoranthene	15.045	252	258769m	26.747	ng	
89) Benzo(k)fluoranthene	15.068	252	67875m	7.202	ng	
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

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

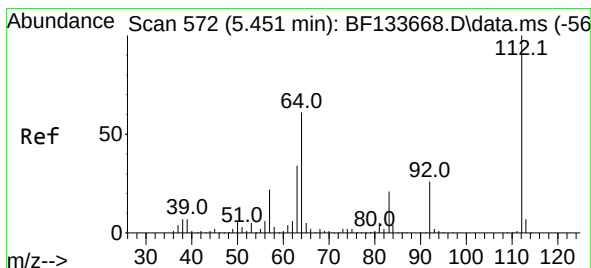
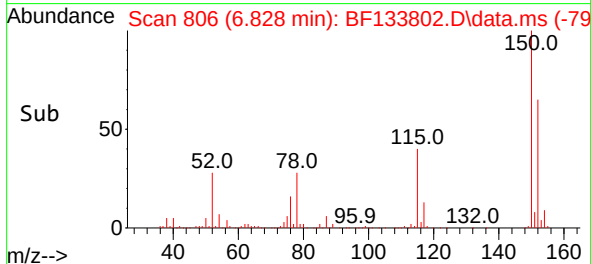
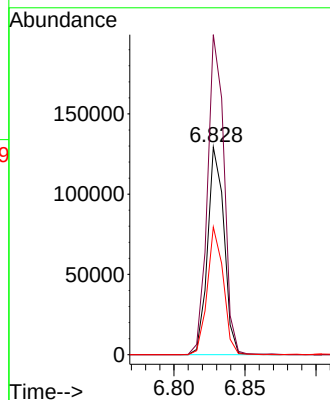
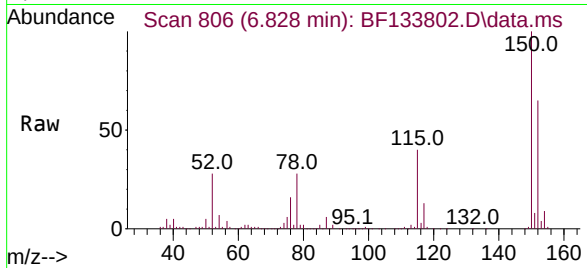




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 808
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

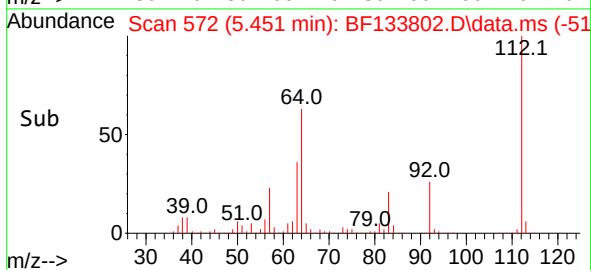
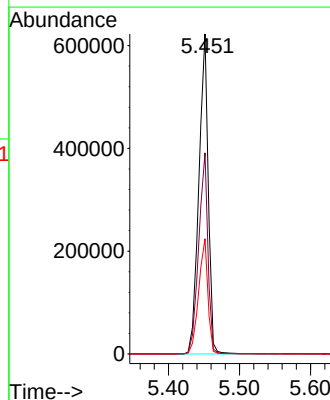
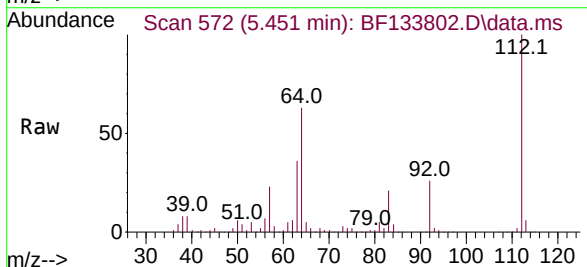
Instrument :
BNA_F
ClientSampleId :
SOIL-001

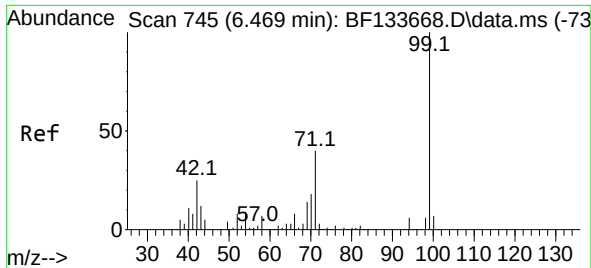
Tgt Ion:152 Resp: 103988
Ion Ratio Lower Upper
152 100
150 154.1 124.3 186.5
115 61.5 48.5 72.7



#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

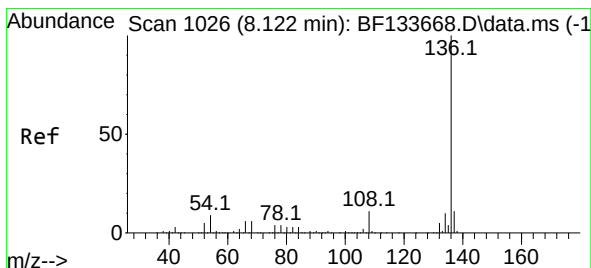
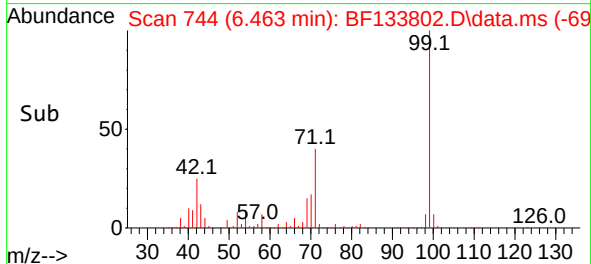
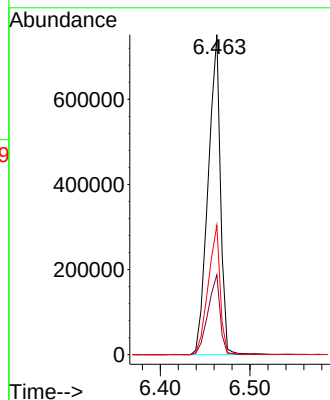
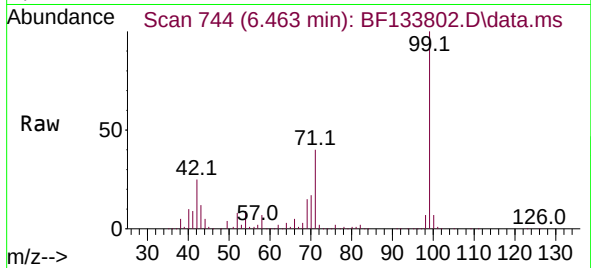




#7
Phenol-d6
Concen: 92.146 ng
RT: 6.463 min Scan# 745
Delta R.T. -0.000 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

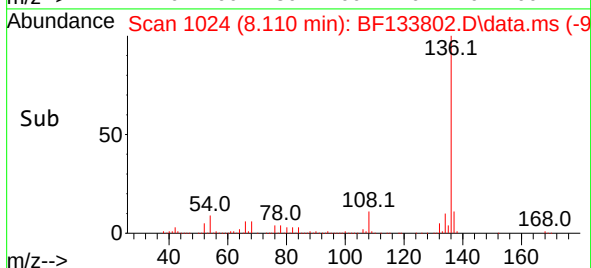
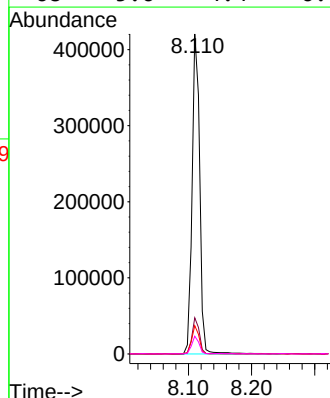
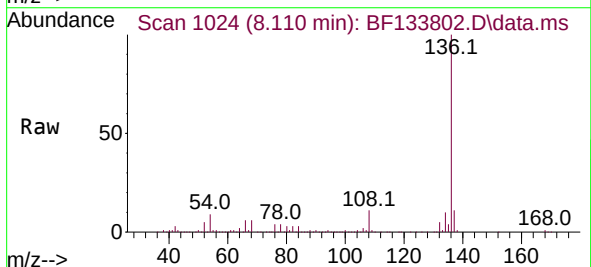
Instrument :
BNA_F
ClientSampleId :
SOIL-001

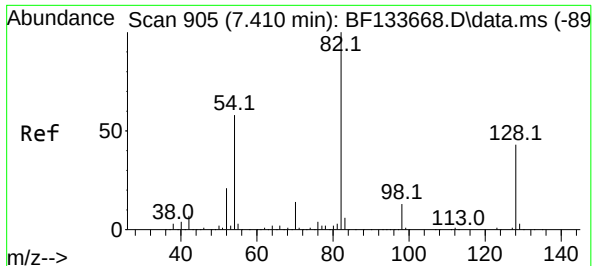
Tgt Ion: 99 Resp: 716444
Ion Ratio Lower Upper
99 100
42 24.9 19.9 29.9
71 40.4 32.2 48.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

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# 90

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

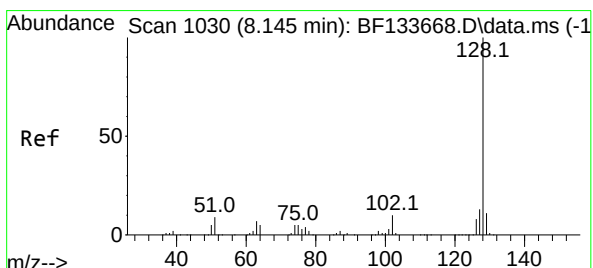
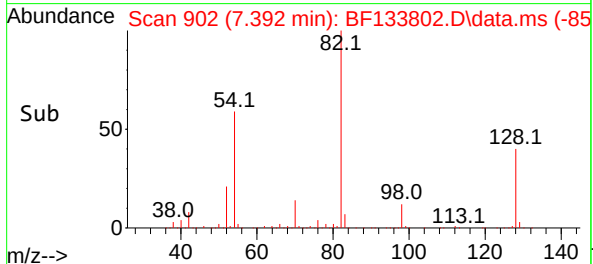
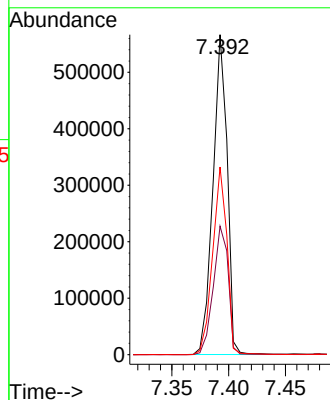
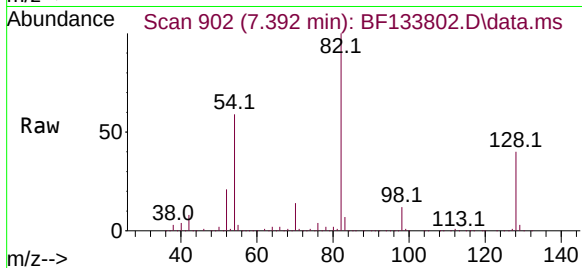
Tgt Ion: 82 Resp: 492939

Ion Ratio Lower Upper

82 100

128 40.2 34.2 51.2

54 58.7 46.5 69.7



#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

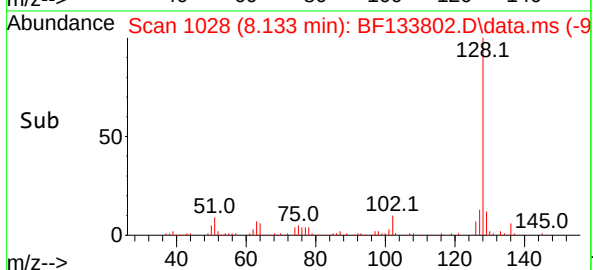
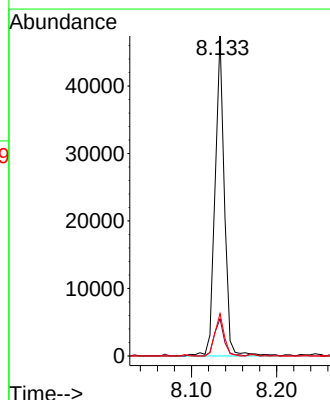
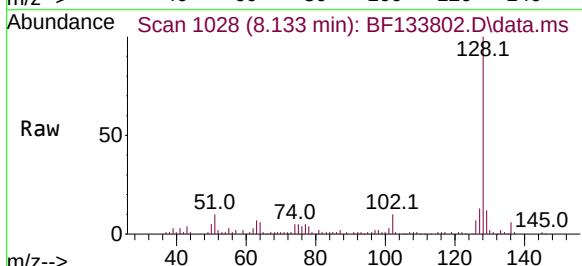
Tgt Ion: 128 Resp: 36112

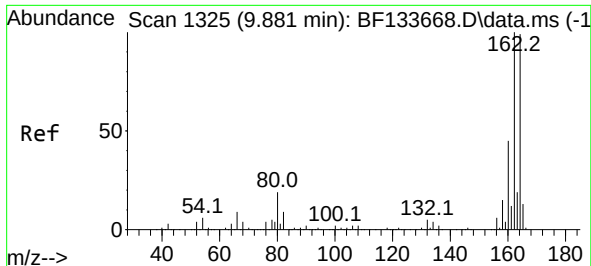
Ion Ratio Lower Upper

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# 1

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

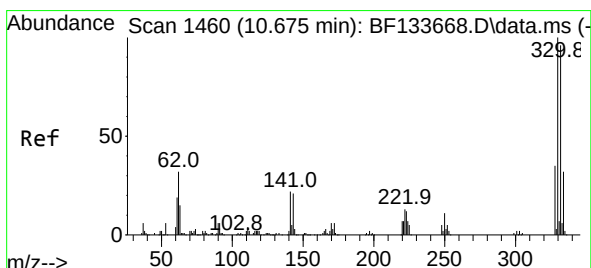
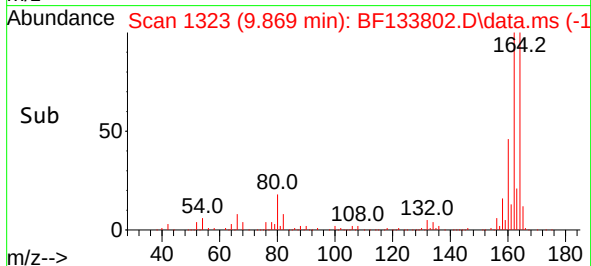
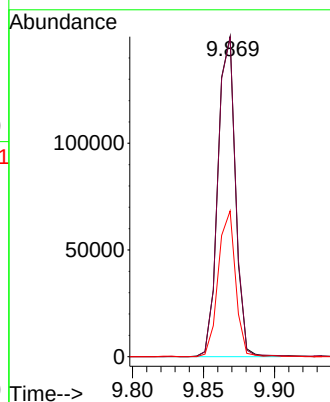
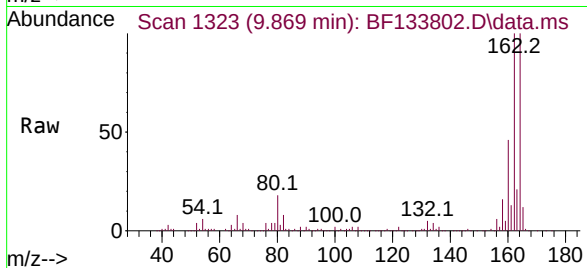
Tgt Ion:164 Resp: 128470

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

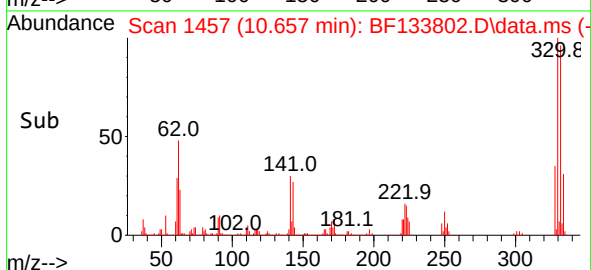
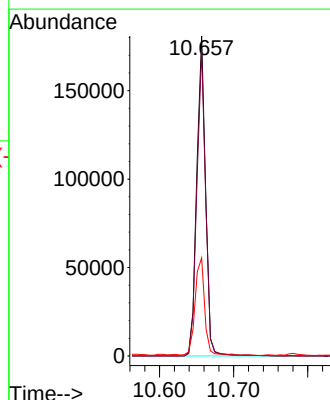
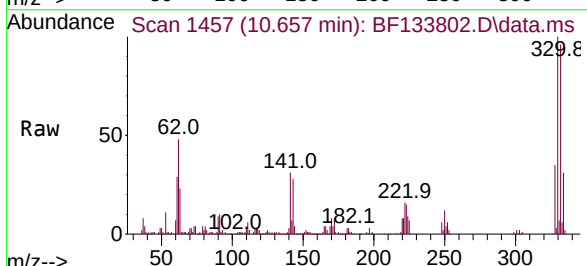
Tgt Ion:330 Resp: 149036

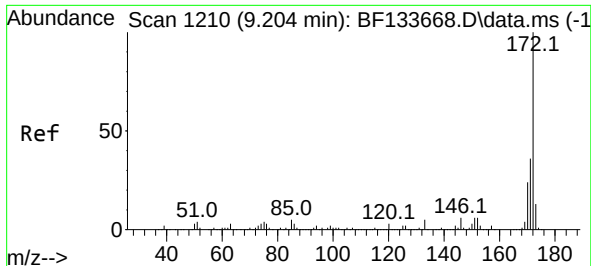
Ion Ratio Lower Upper

330 100

332 95.5 77.2 115.8

141 32.9 24.9 37.3

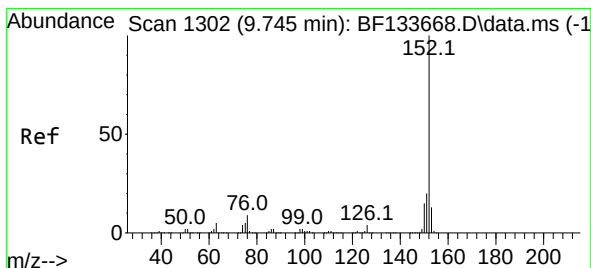
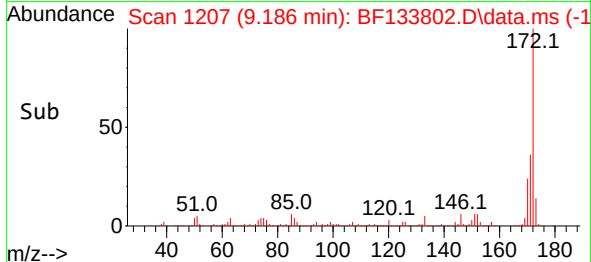
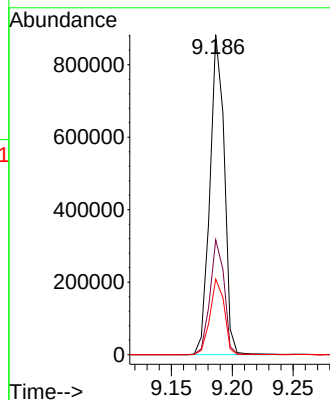
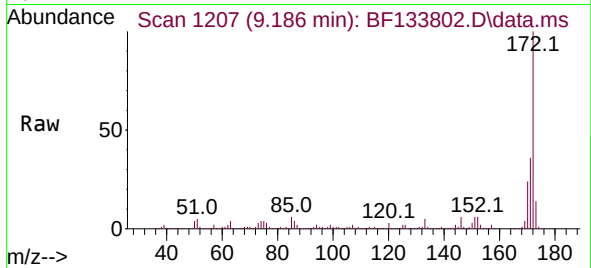




#45
2-Fluorobiphenyl
Concen: 80.063 ng
RT: 9.186 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

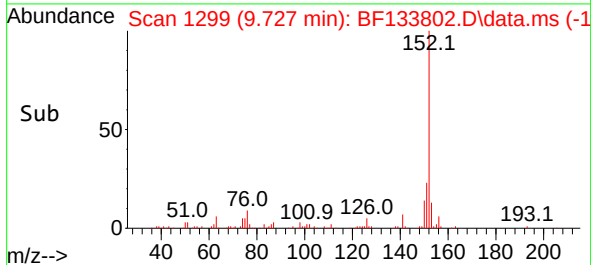
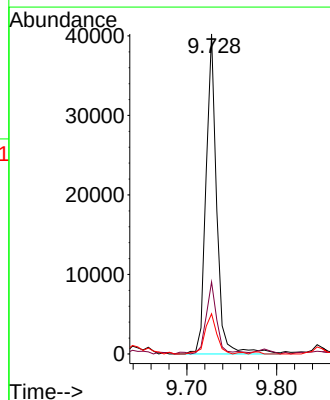
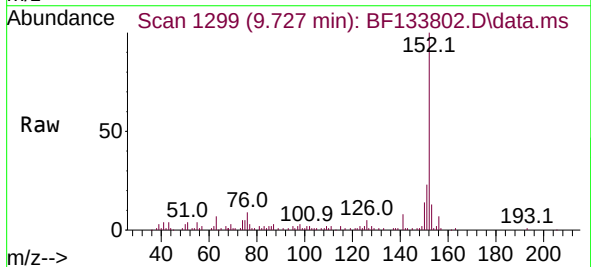
Instrument :
BNA_F
ClientSampleId :
SOIL-001

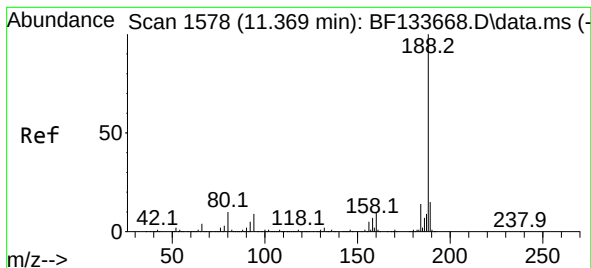
Tgt Ion:172 Resp: 723573
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 23.6 19.1 28.7



#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





#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

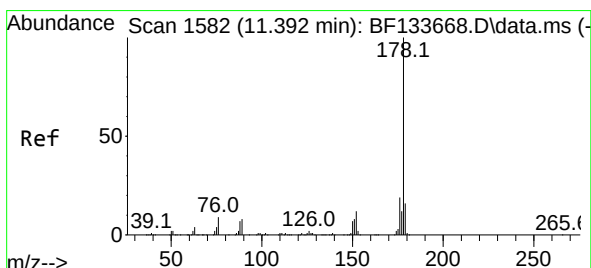
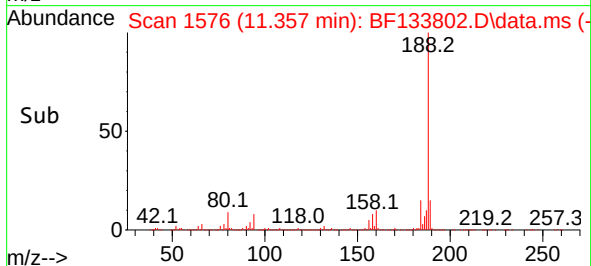
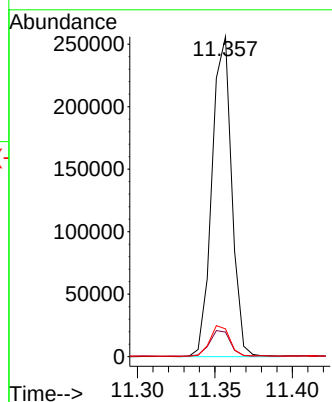
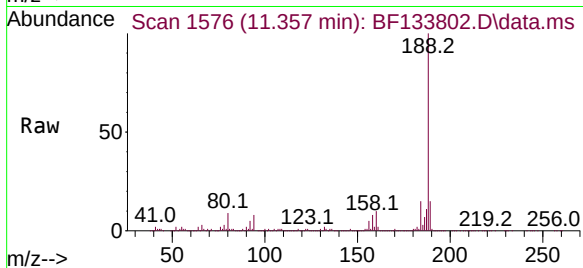
Tgt Ion:188 Resp: 227200

Ion Ratio Lower Upper

188 100

94 7.7 6.8 10.2

80 8.7 7.8 11.6



#71

Phenanthrene

Concen: 17.498 ng

RT: 11.380 min Scan# 1580

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

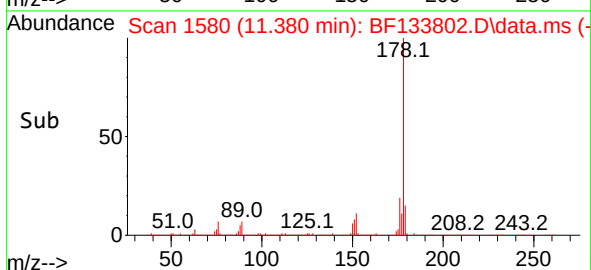
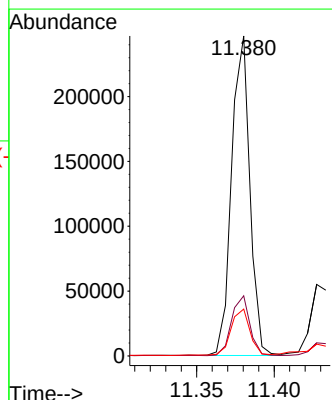
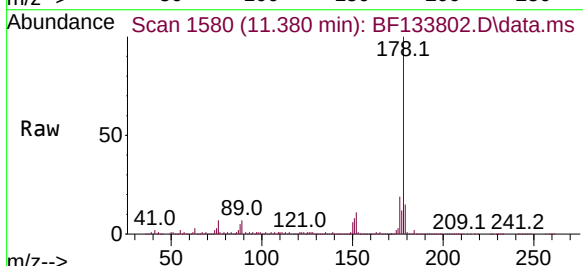
Tgt Ion:178 Resp: 201697

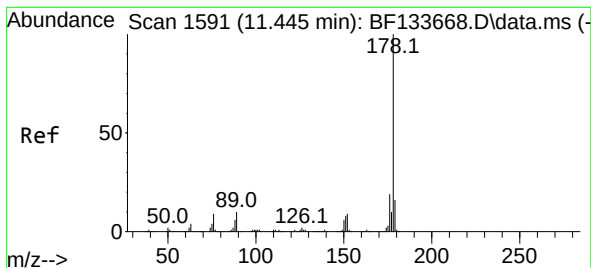
Ion Ratio Lower Upper

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

Instrument :

BNA_F

ClientSampleId :

SOIL-001

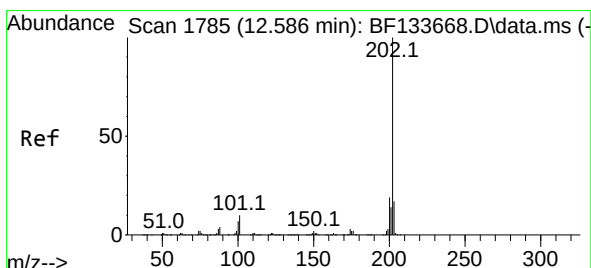
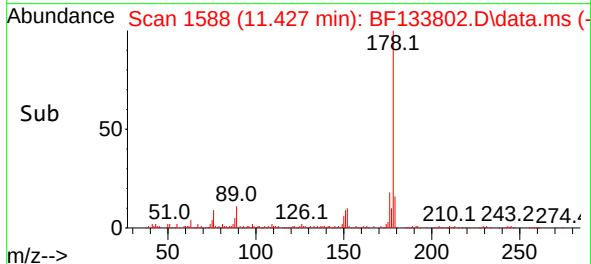
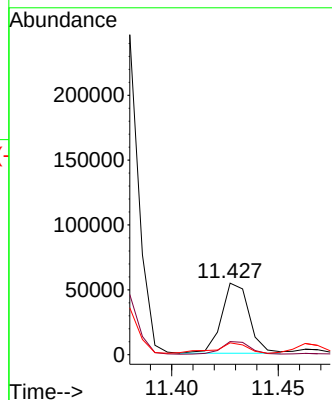
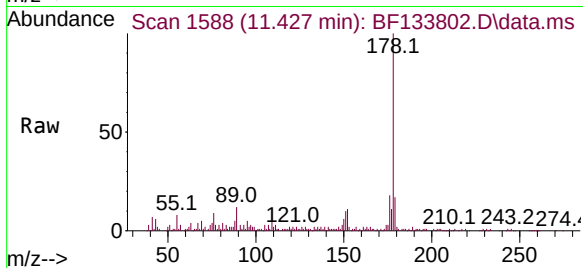
Tgt Ion:178 Resp: 48893

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# 1783

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

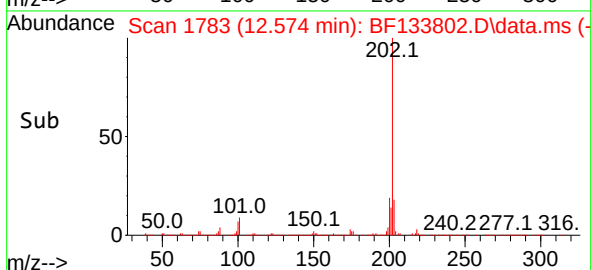
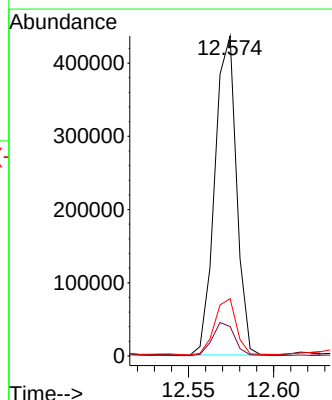
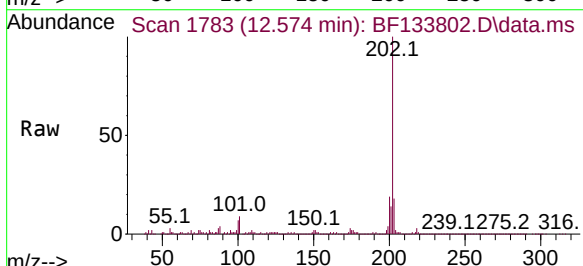
Tgt Ion:202 Resp: 385779

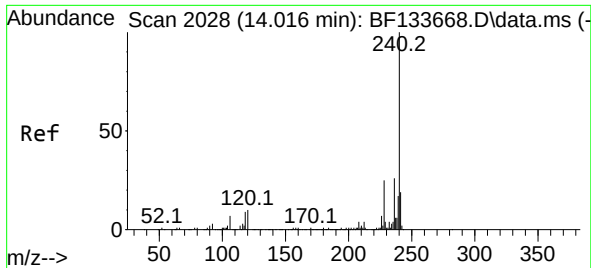
Ion Ratio Lower Upper

202 100

101 9.2 0.0 29.6

203 17.9 0.0 37.4

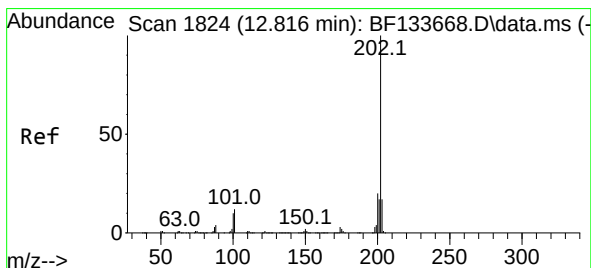
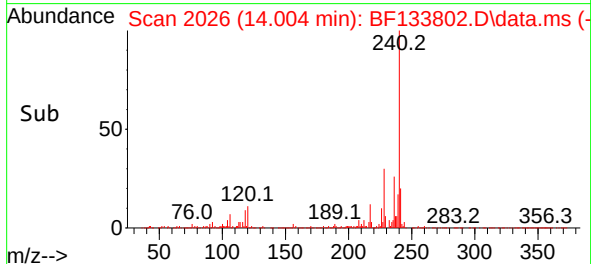
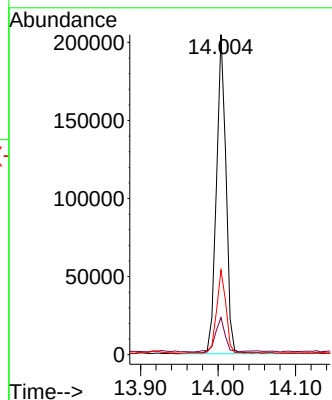
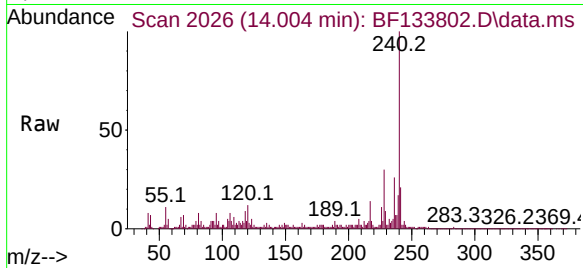




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

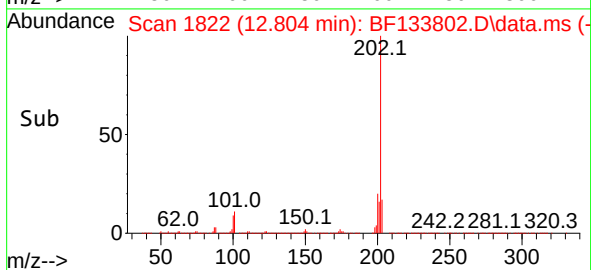
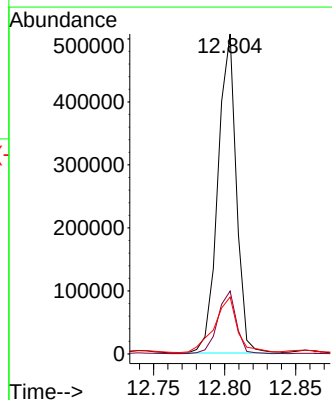
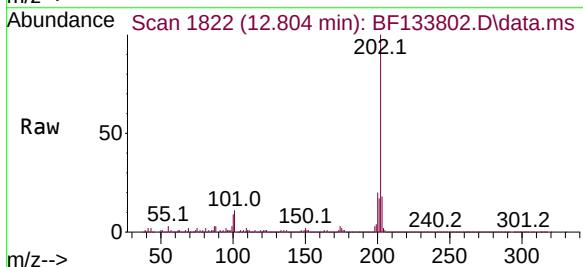
Instrument :
BNA_F
ClientSampleId :
SOIL-001

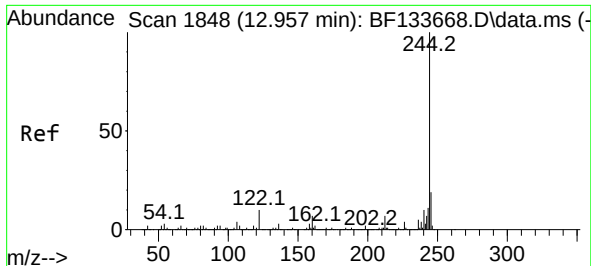
Tgt Ion:240 Resp: 175518
Ion Ratio Lower Upper
240 100
120 11.6 8.1 12.1
236 26.4 20.5 30.7



#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

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

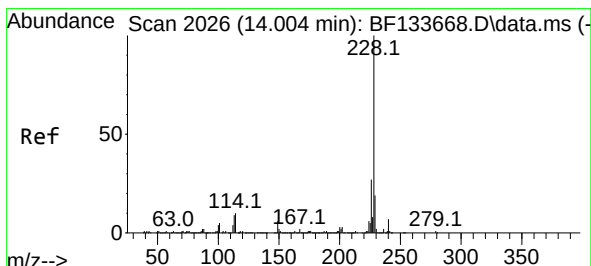
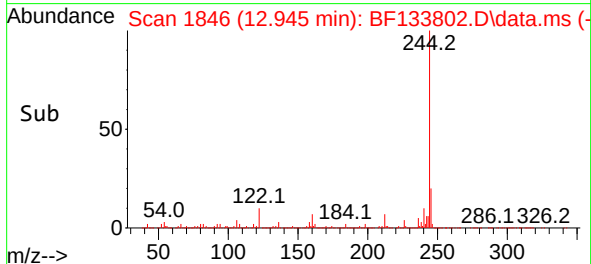
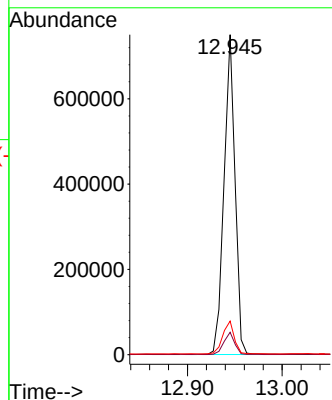
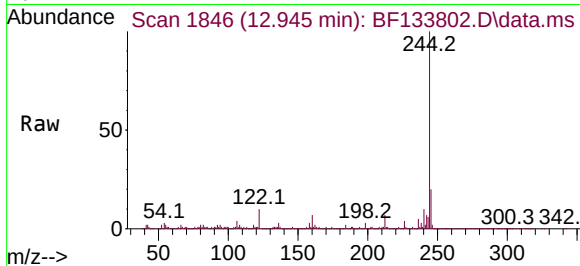




#79
 Terphenyl-d14
 Concen: 53.588 ng
 RT: 12.945 min Scan# 1846
 Delta R.T. -0.000 min
 Lab File: BF133802.D
 Acq: 16 Jun 2023 05:46

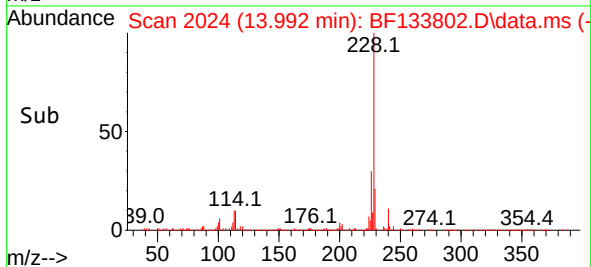
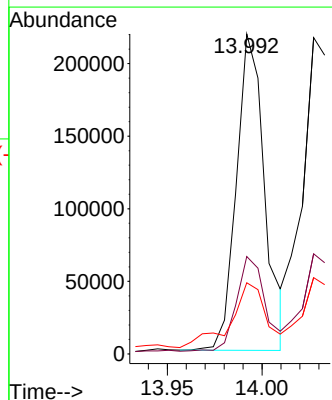
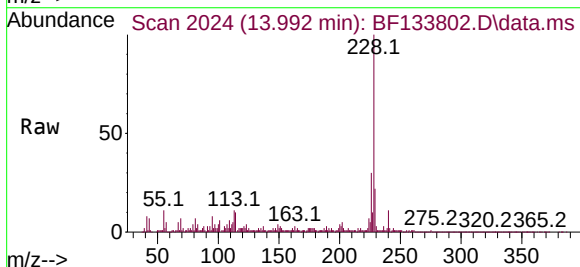
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

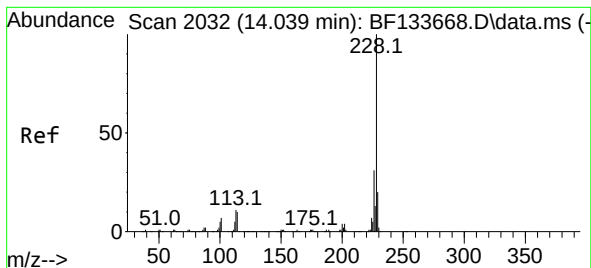
Tgt Ion:244 Resp: 607858
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.2
 122 10.5 8.1 12.1



#81
 Benzo(a)anthracene
 Concen: 18.594 ng
 RT: 13.992 min Scan# 2024
 Delta R.T. -0.000 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 21.7 32.5
 229 22.2 15.4 23.2





#83

Chrysene

Concen: 19.680 ng m

RT: 14.027 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

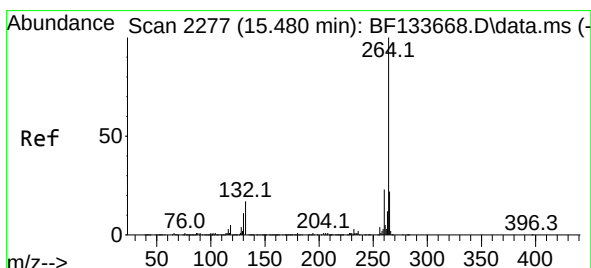
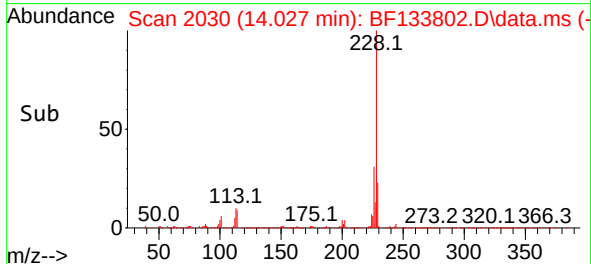
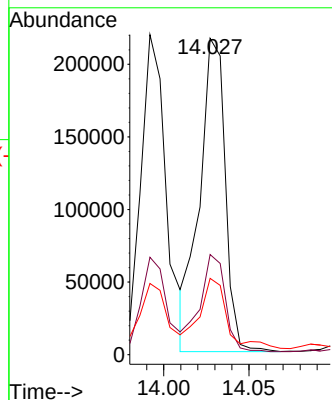
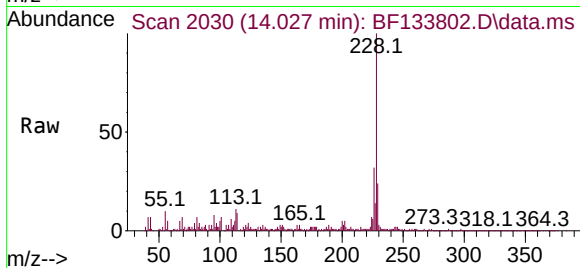
Tgt Ion:228 Resp: 225984

Ion Ratio Lower Upper

228 100

226 31.7 25.0 37.6

229 24.1 15.8 23.8#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

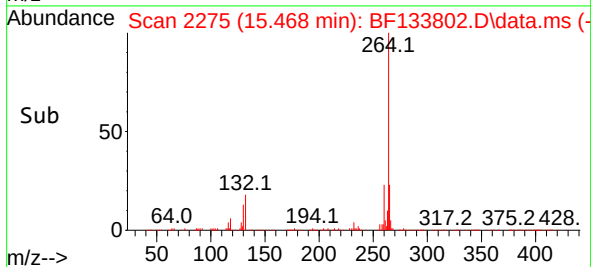
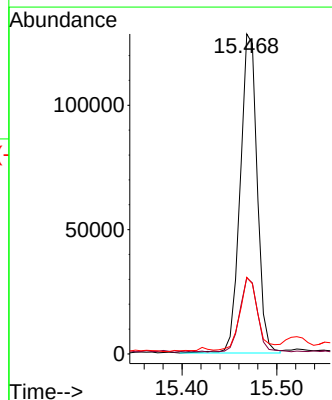
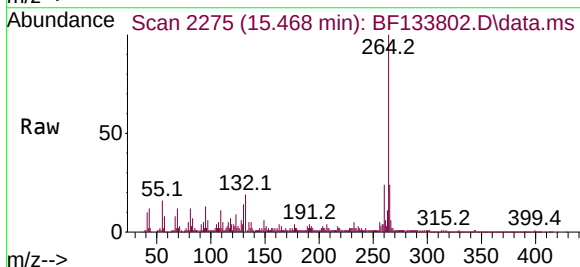
Tgt Ion:264 Resp: 159265

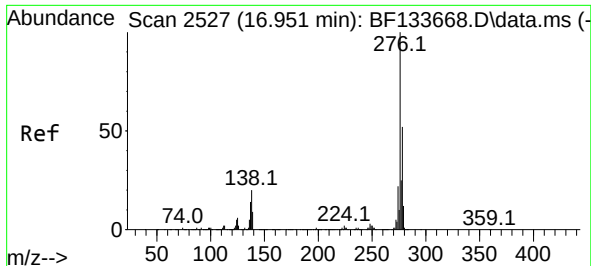
Ion Ratio Lower Upper

264 100

260 23.8 18.2 27.2

265 24.0 17.8 26.6

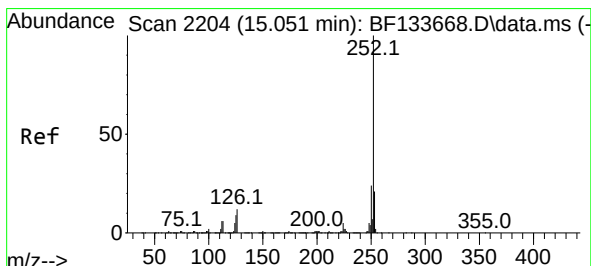
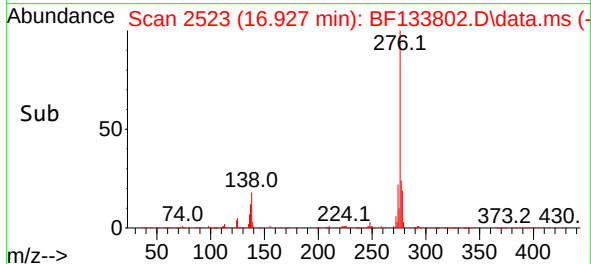
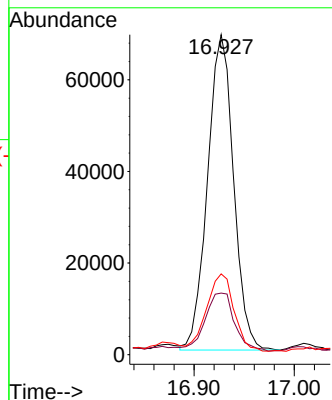
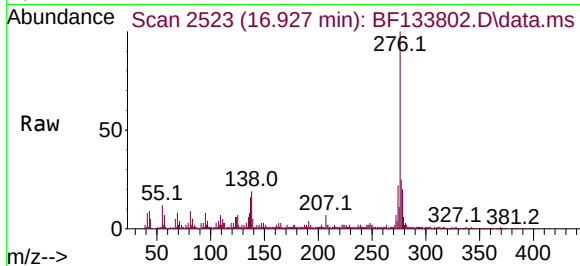




#87
Indeno(1,2,3-cd)pyrene
Concen: 11.357 ng
RT: 16.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

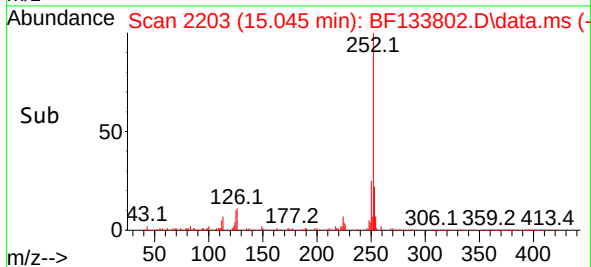
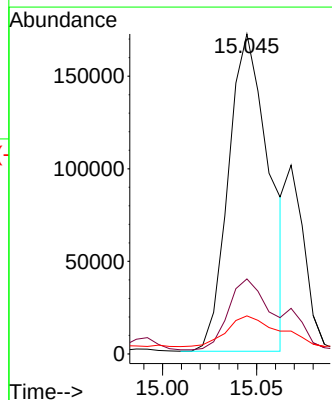
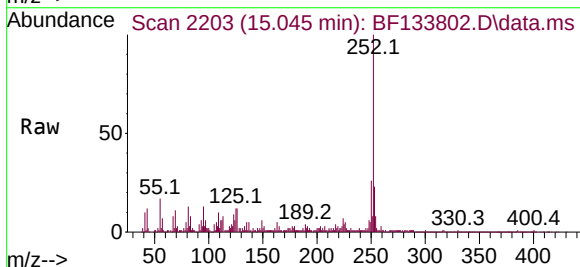
Instrument :
BNA_F
ClientSampleId :
SOIL-001

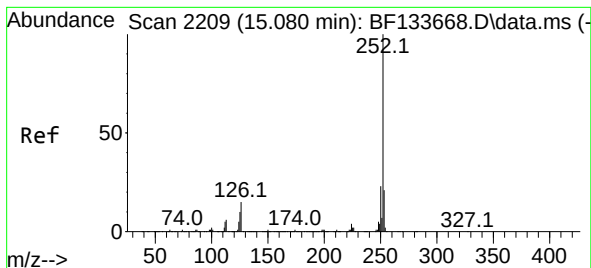
Tgt Ion:276 Resp: 124436
Ion Ratio Lower Upper
276 100
138 20.5 17.9 26.9
277 25.8 20.3 30.5



#88
Benzo(b)fluoranthene
Concen: 26.747 ng m
RT: 15.045 min Scan# 2203
Delta R.T. 0.006 min
Lab File: BF133802.D
Acq: 16 Jun 2023 05:46

Tgt Ion:252 Resp: 258769
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: 7.202 ng m

RT: 15.068 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

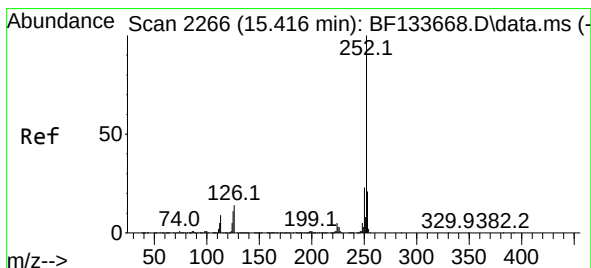
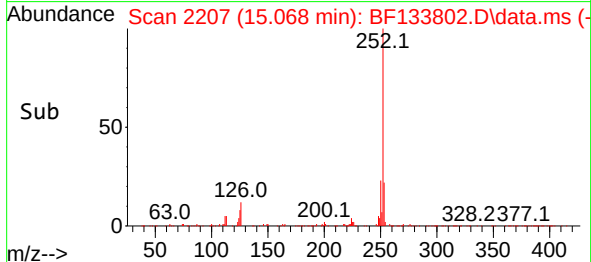
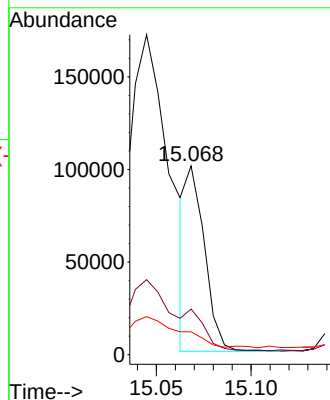
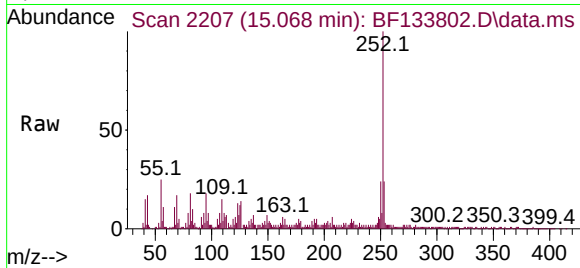
Tgt Ion:252 Resp: 67875

Ion Ratio Lower Upper

252 100

253 24.1 17.0 25.4

125 12.1 7.8 11.6#



#90

Benzo(a)pyrene

Concen: 19.667 ng

RT: 15.409 min Scan# 2265

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

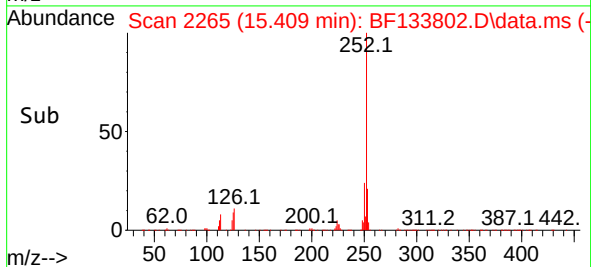
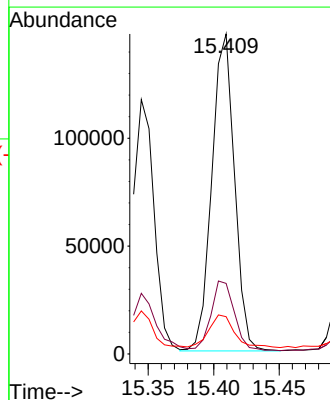
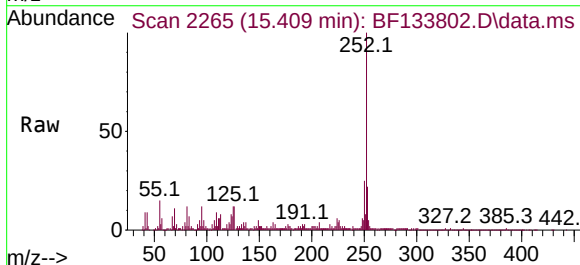
Tgt Ion:252 Resp: 176590

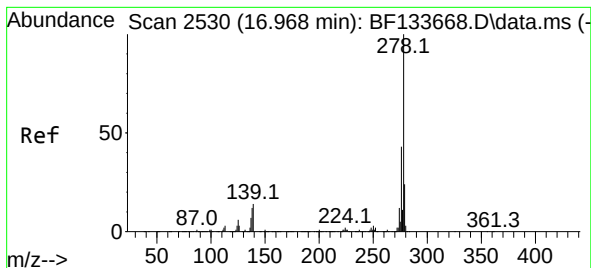
Ion Ratio Lower Upper

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# 21

Delta R.T. -0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

Instrument :

BNA_F

ClientSampleId :

SOIL-001

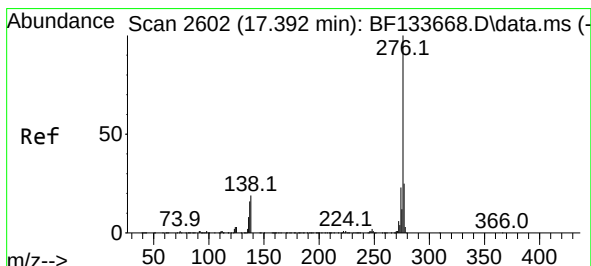
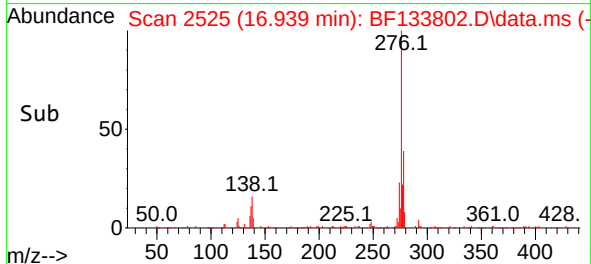
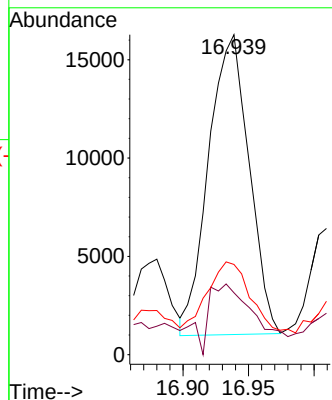
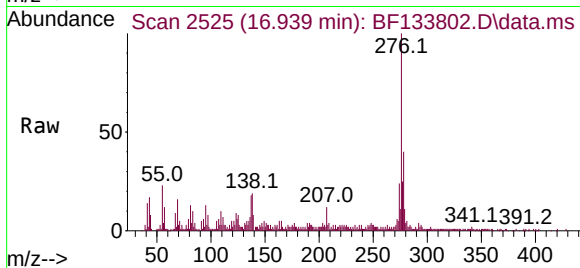
Tgt Ion:278 Resp: 32755

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# 2599

Delta R.T. 0.006 min

Lab File: BF133802.D

Acq: 16 Jun 2023 05:46

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

