

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140163.D
 Acq On : 30 Oct 2024 17:46
 Operator : RC/JU
 Sample : P4617-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Quant Time: Nov 01 02:17:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

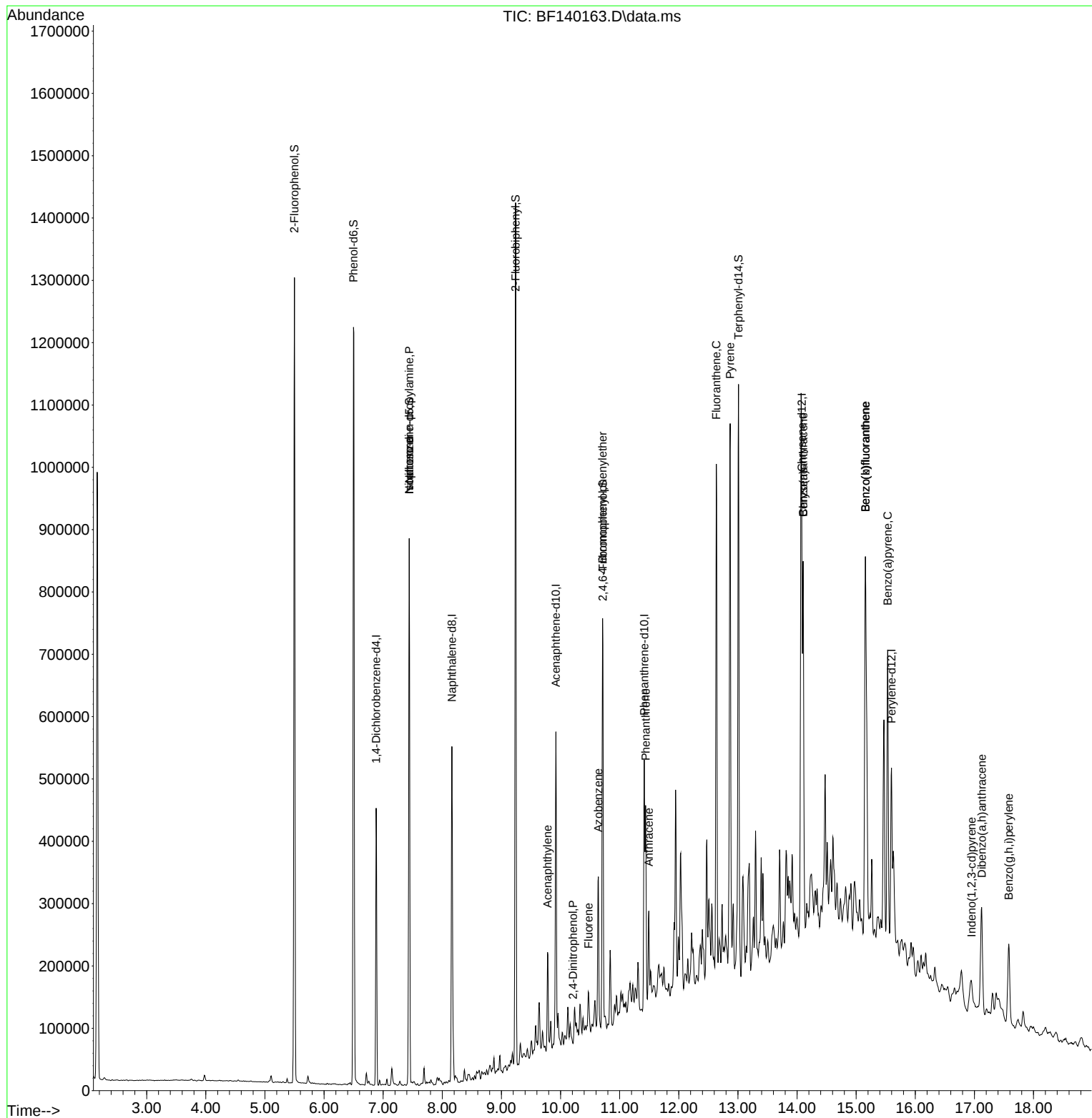
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	86183	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	305744	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	142138	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	202228	20.000	ng	0.00
76) Chrysene-d12	14.080	240	174193	20.000	ng	0.03
86) Perylene-d12	15.598	264	176450	20.000	ng	0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	443034	80.476	ng	0.00
7) Phenol-d6	6.498	99	548519	76.930	ng	-0.01
23) Nitrobenzene-d5	7.439	82	363490	65.892	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	98098	73.785	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	581857	67.655	ng	-0.01
79) Terphenyl-d14	13.010	244	444127	41.546	ng	0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	48874	11.302	ng	# 80
25) Isophorone	7.439	82	361375	34.514	ng	# 67
49) Acenaphthylene	9.781	152	84556	7.339	ng	99
54) 2,4-Dinitrophenol	10.210	184	293	6.866	ng	# 1
58) Fluorene	10.475	166	29364	3.605	ng	# 92
63) Azobenzene	10.639	77	58701	6.370	ng	# 1
67) 4-Bromophenyl-phenylether	10.710	248	6588	3.162	ng	# 1
71) Phenanthrene	11.439	178	161426	16.899	ng	100
72) Anthracene	11.492	178	88480	9.493	ng	98
75) Fluoranthene	12.633	202	453252	46.936	ng	99
78) Pyrene	12.869	202	517030	33.909	ng	99
81) Benzo(a)anthracene	14.104	228	308129	27.173	ng	93
83) Chrysene	14.104	228	308129	29.637	ng	96
87) Indeno(1,2,3-cd)pyrene	16.951	276	27643	2.435	ng	97
88) Benzo(b)fluoranthene	15.157	252	559472	52.051	ng	98
89) Benzo(k)fluoranthene	15.157	252	559472	60.355	ng	98
90) Benzo(a)pyrene	15.533	252	300577	33.985	ng	98
91) Dibenzo(a,h)anthracene	17.127	278	35517	3.751	ng	# 89
92) Benzo(g,h,i)perylene	17.580	276	124359	13.147	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140163.D
Acq On : 30 Oct 2024 17:46
Operator : RC/JU
Sample : P4617-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Quant Time: Nov 01 02:17:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

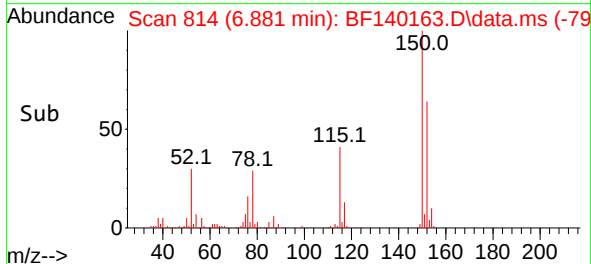
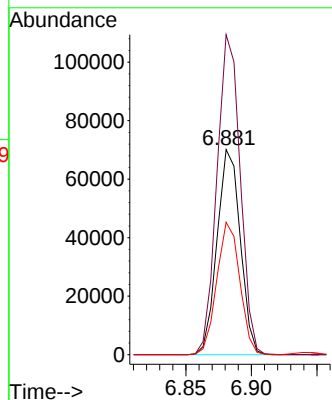
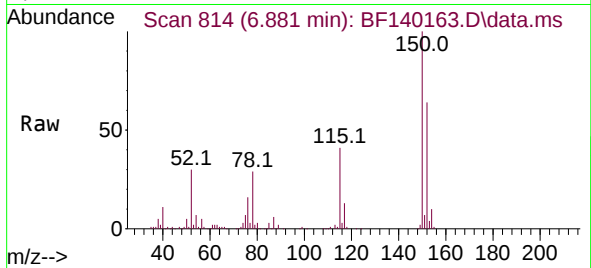




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 816
Delta R.T. -0.011 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

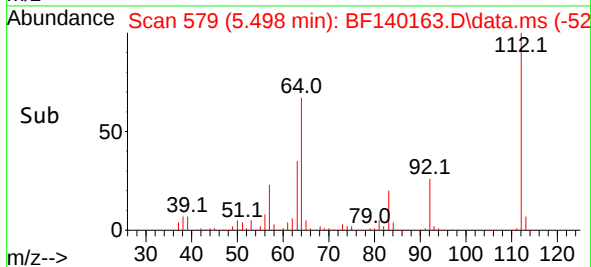
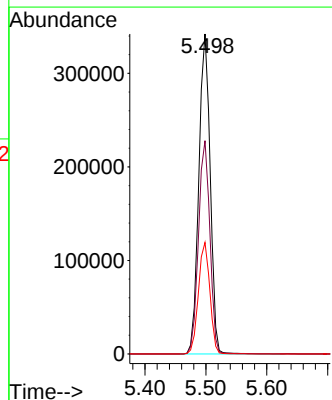
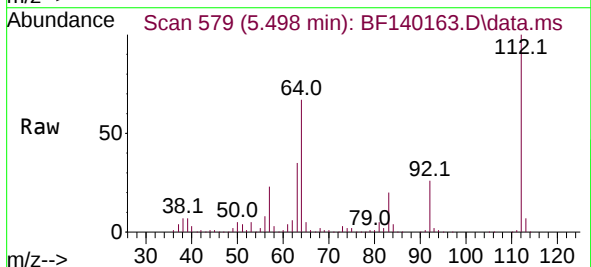
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:152 Resp: 86183
Ion Ratio Lower Upper
152 100
150 156.0 130.2 195.2
115 64.5 51.4 77.2



#5
2-Fluorophenol
Concen: 80.476 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:112 Resp: 443034
Ion Ratio Lower Upper
112 100
64 66.6 53.0 79.6
63 34.9 27.0 40.4

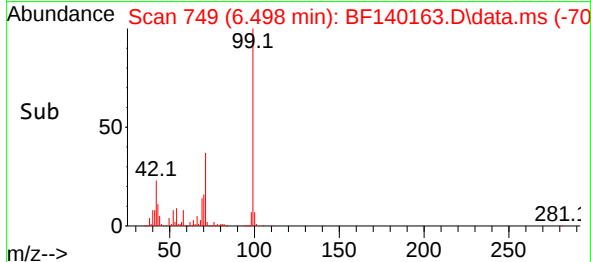
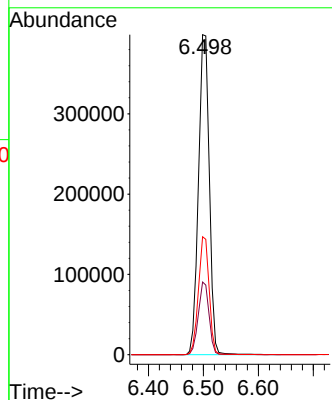
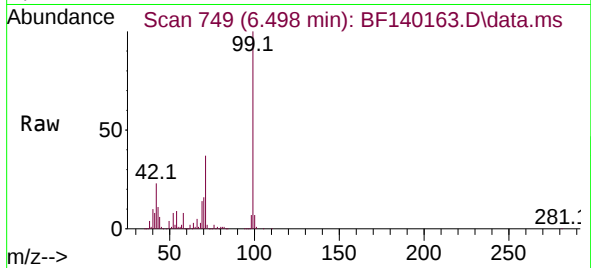




#7
Phenol-d6
Concen: 76.930 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

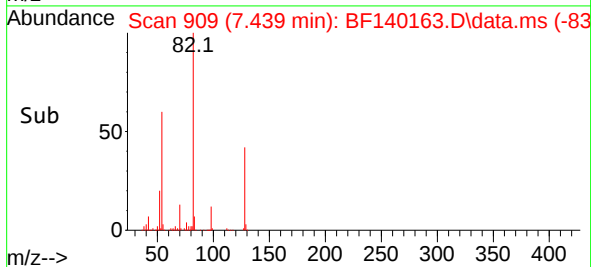
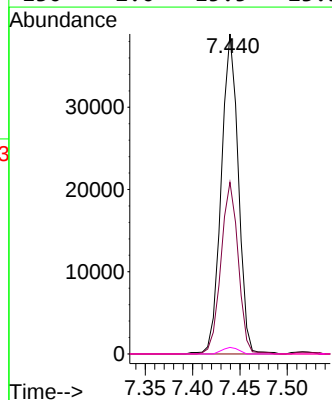
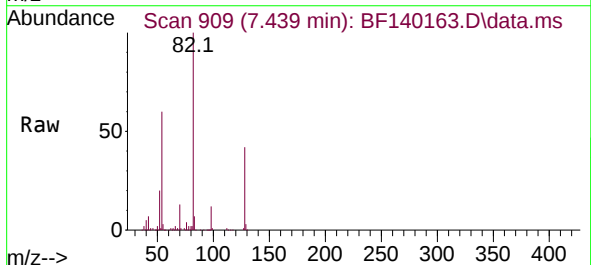
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion: 99 Resp: 548519
Ion Ratio Lower Upper
99 100
42 22.7 16.7 25.1
71 36.9 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 11.302 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.135 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion: 70 Resp: 48874
Ion Ratio Lower Upper
70 100
42 53.6 51.5 77.3
101 0.0 7.5 11.3#
130 2.0 15.5 23.3#



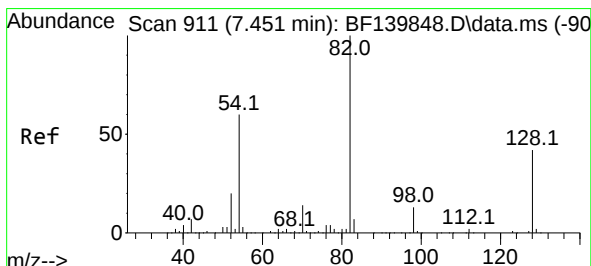
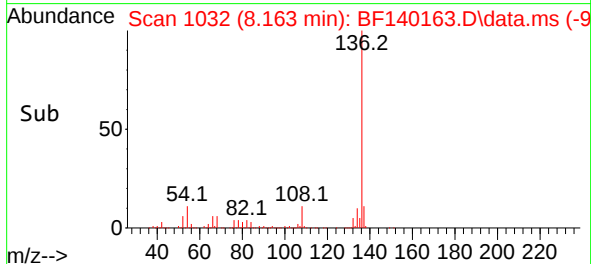
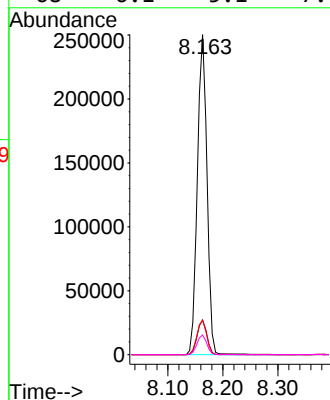
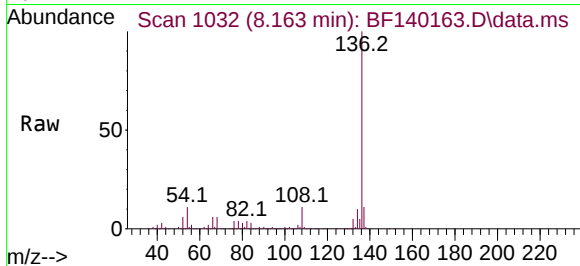


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion:136 Resp: 305744

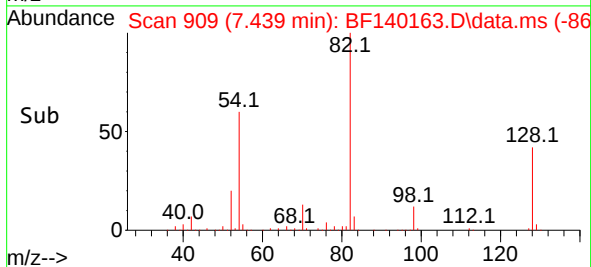
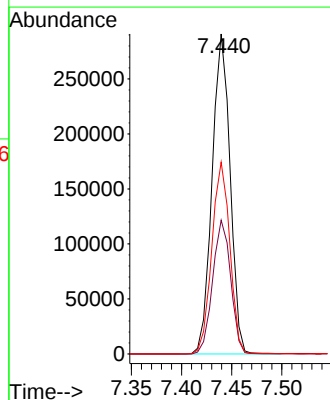
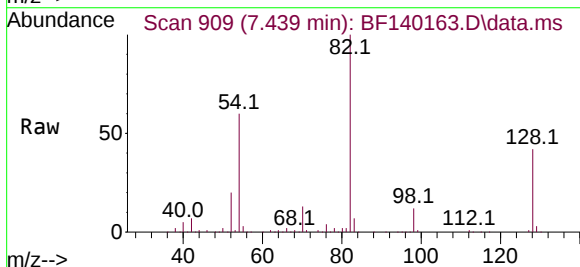
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.7	8.4	12.6
68	6.1	5.1	7.7

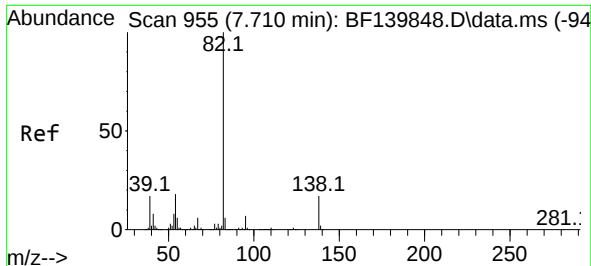


#23
Nitrobenzene-d5
Concen: 65.892 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion: 82 Resp: 363490

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.4	50.0
54	59.9	47.8	71.8

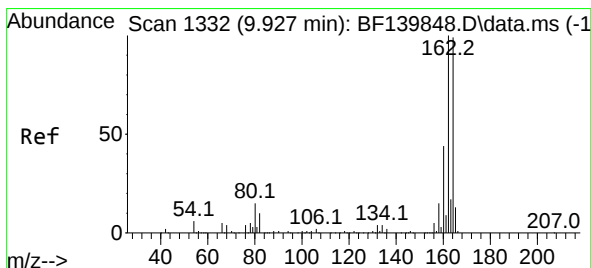
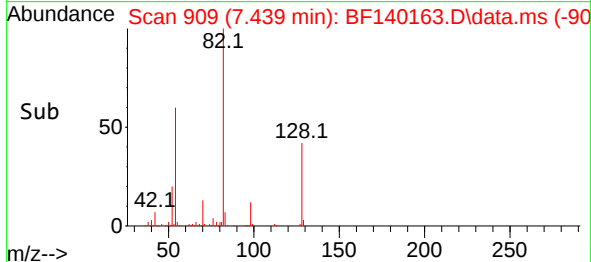
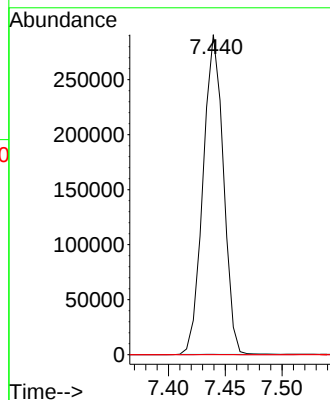
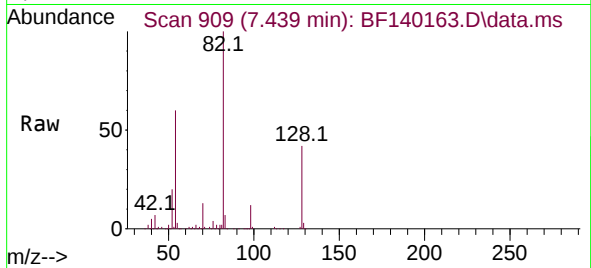




#25
Isophorone
Concen: 34.514 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.270 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

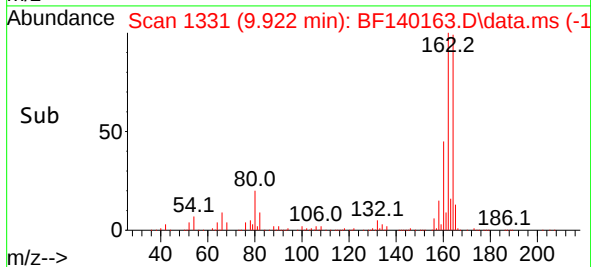
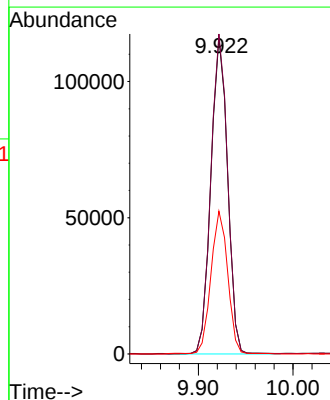
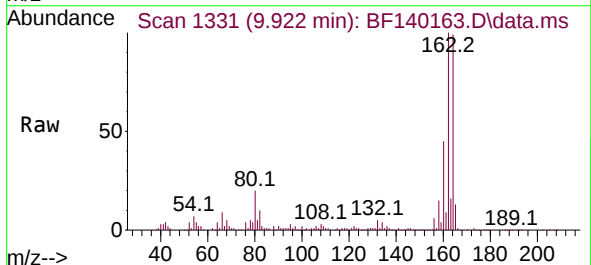
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tgt Ion: 82 Resp: 361375
Ion Ratio Lower Upper
82 100
95 0.1 5.5 8.3#
138 0.0 13.2 19.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

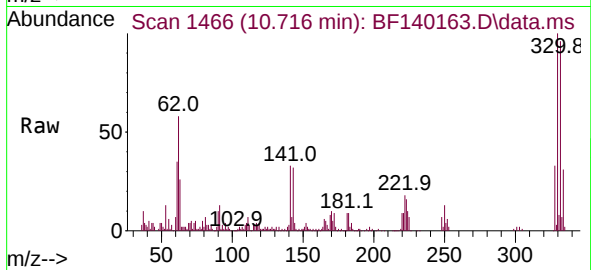
Tgt Ion: 164 Resp: 142138
Ion Ratio Lower Upper
164 100
162 101.2 81.0 121.4
160 45.1 35.4 53.0



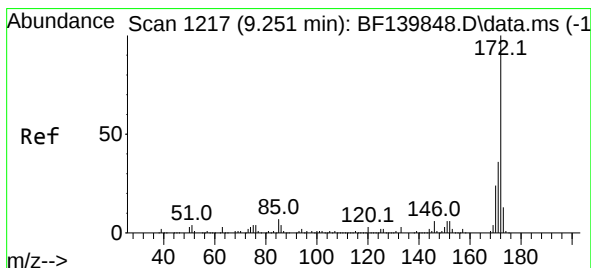
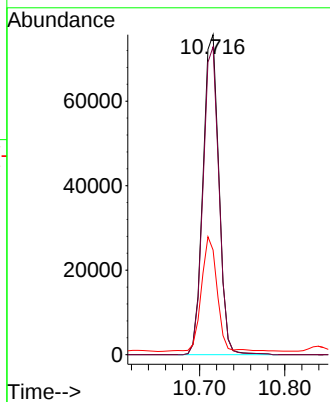
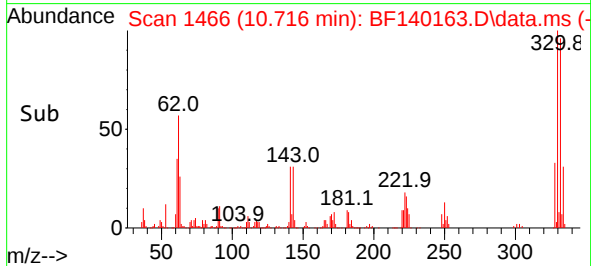


#42
2,4,6-Tribromophenol
Concen: 73.785 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

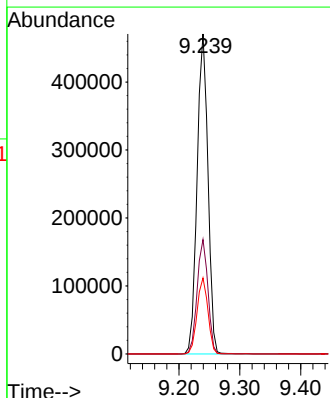
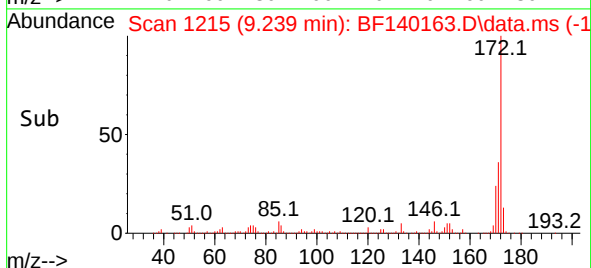
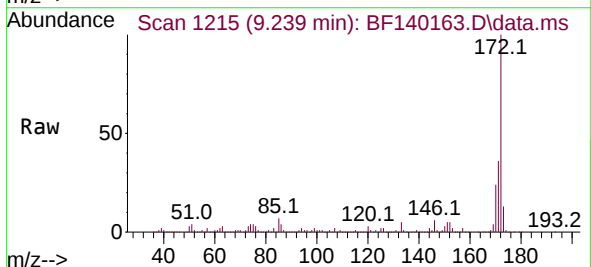


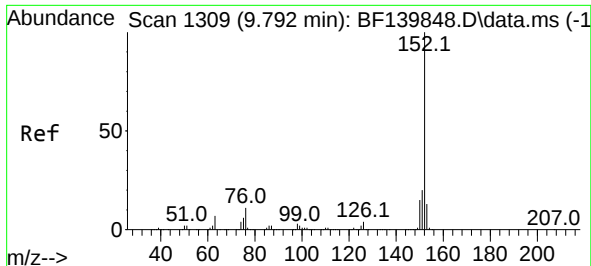
Tgt Ion:330 Resp: 98098
Ion Ratio Lower Upper
330 100
332 96.5 78.1 117.1
141 36.0 26.6 39.8



#45
2-Fluorobiphenyl
Concen: 67.655 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:172 Resp: 581857
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 23.8 19.1 28.7

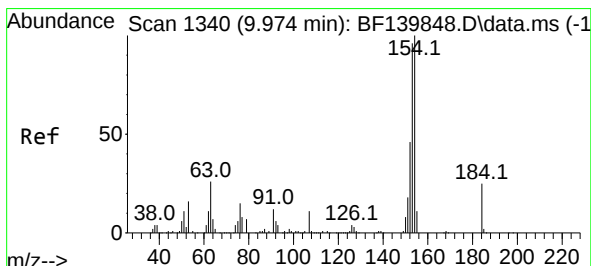
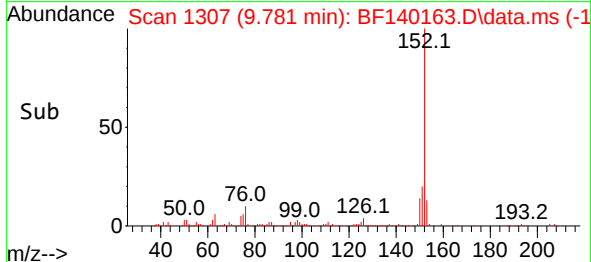
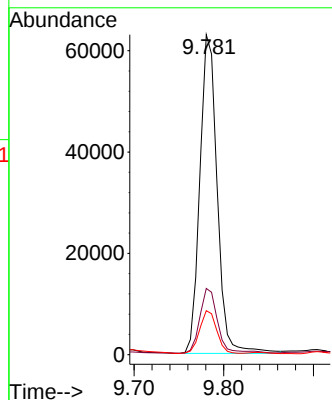
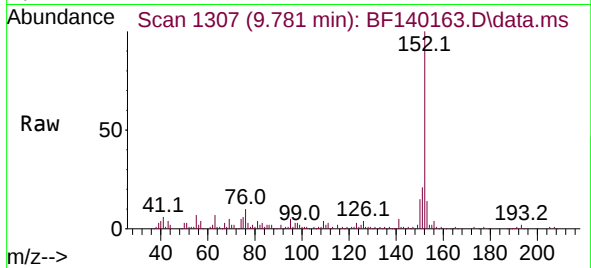




#49
Acenaphthylene
Concen: 7.339 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

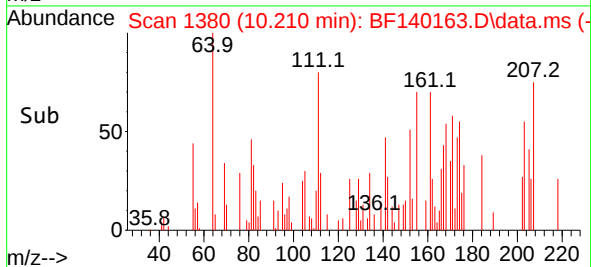
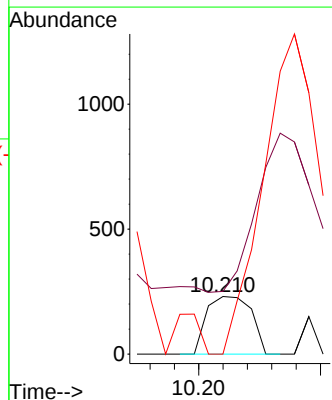
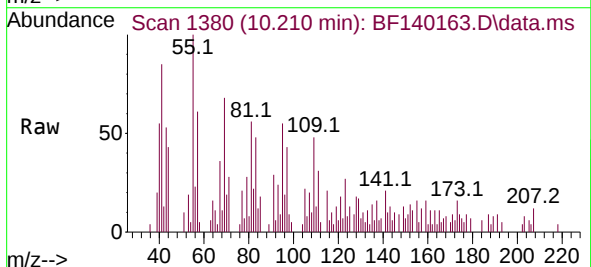
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

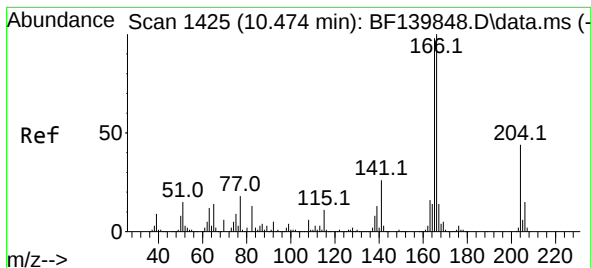
Tgt Ion:152 Resp: 84556
Ion Ratio Lower Upper
152 100
151 20.7 15.9 23.9
153 13.7 10.7 16.1



#54
2,4-Dinitrophenol
Concen: 6.866 ng
RT: 10.210 min Scan# 1380
Delta R.T. 0.236 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:184 Resp: 293
Ion Ratio Lower Upper
184 100
63 109.1 84.7 127.1
154 0.0 338.2 507.2#





#58

Fluorene

Concen: 3.605 ng

RT: 10.475 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

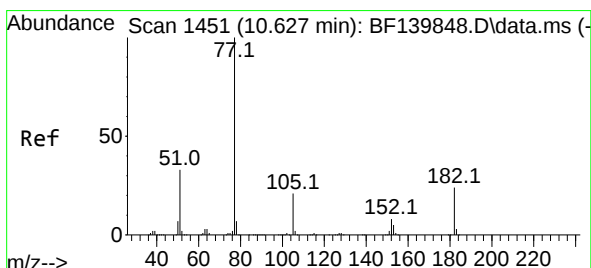
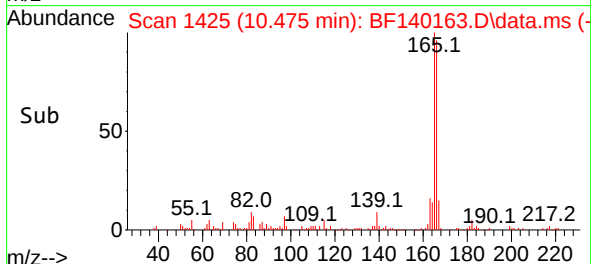
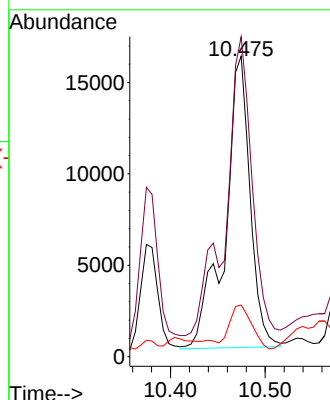
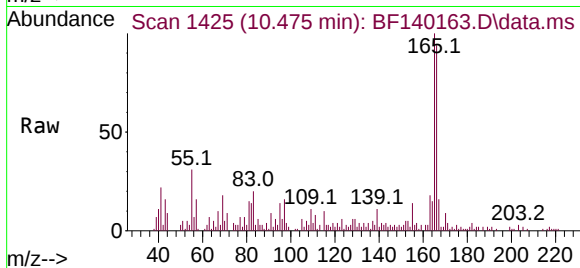
Tgt Ion:166 Resp: 29364

Ion Ratio Lower Upper

166 100

165 106.4 78.5 117.7

167 17.2 10.9 16.3#



#63

Azobenzene

Concen: 6.370 ng

RT: 10.639 min Scan# 1453

Delta R.T. 0.012 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Tgt Ion: 77 Resp: 58701

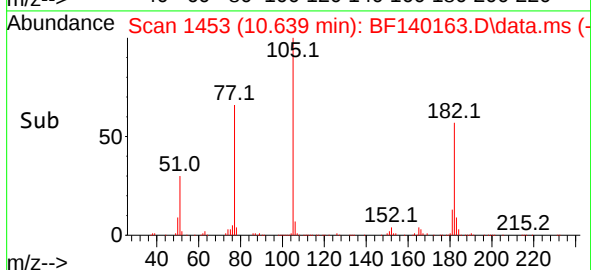
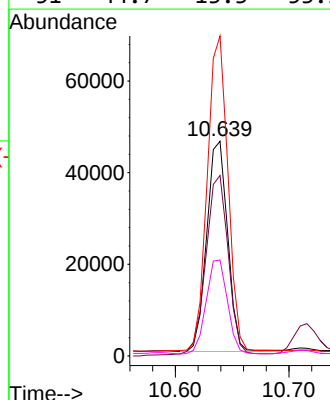
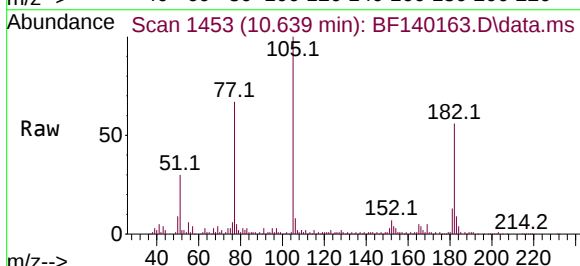
Ion Ratio Lower Upper

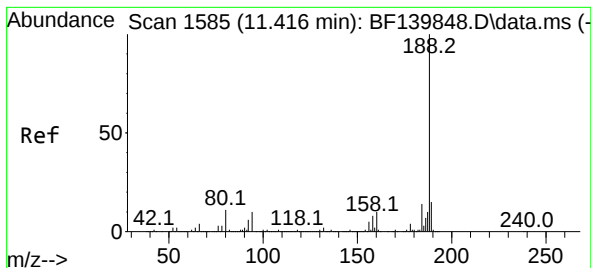
77 100

182 84.1 3.3 43.3#

105 149.1 1.2 41.2#

51 44.7 13.3 53.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

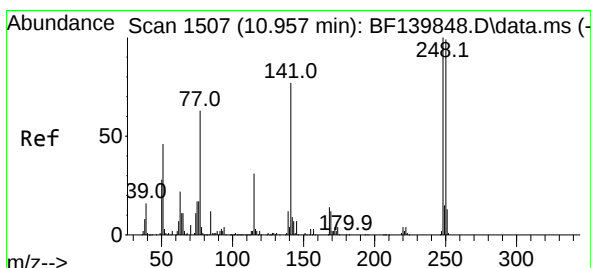
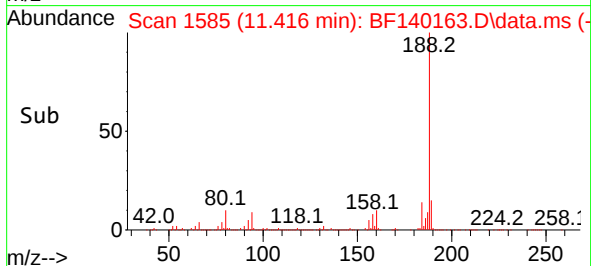
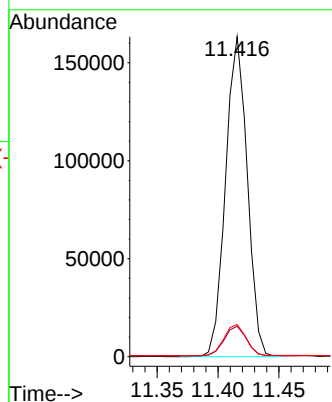
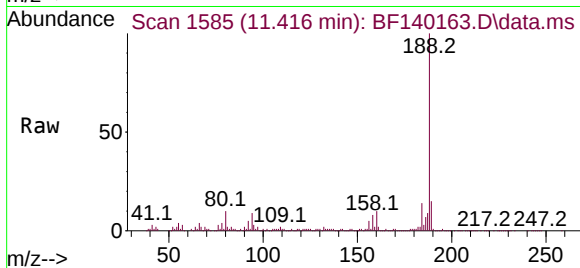
Tgt Ion:188 Resp: 202228

Ion Ratio Lower Upper

188 100

94 9.5 7.9 11.9

80 10.1 9.0 13.4



#67

4-Bromophenyl-phenylether

Concen: 3.162 ng

RT: 10.710 min Scan# 1465

Delta R.T. -0.247 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

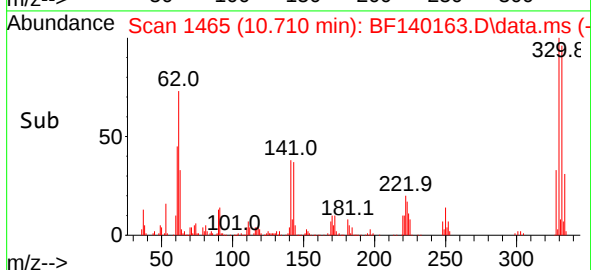
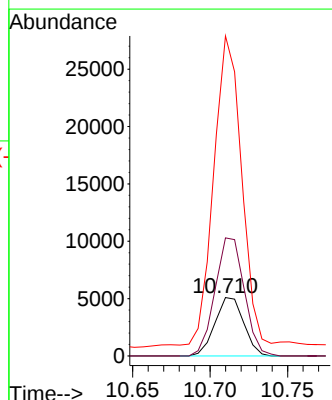
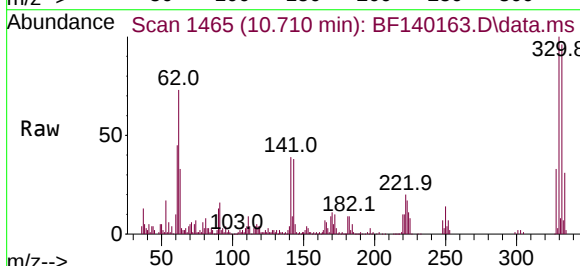
Tgt Ion:248 Resp: 6588

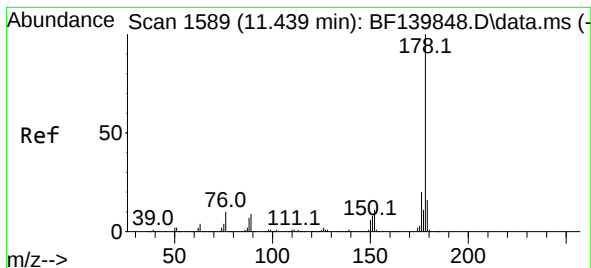
Ion Ratio Lower Upper

248 100

250 202.1 79.0 118.6#

141 547.7 61.7 92.5#





#71

Phenanthrene

Concen: 16.899 ng

RT: 11.439 min Scan# 1589

Delta R.T. 0.000 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

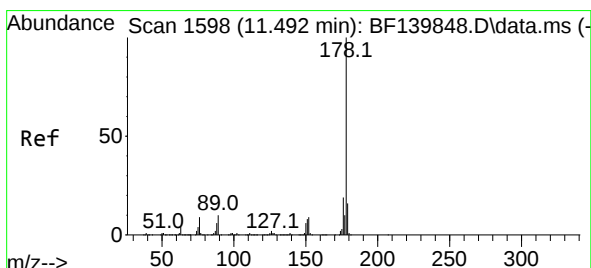
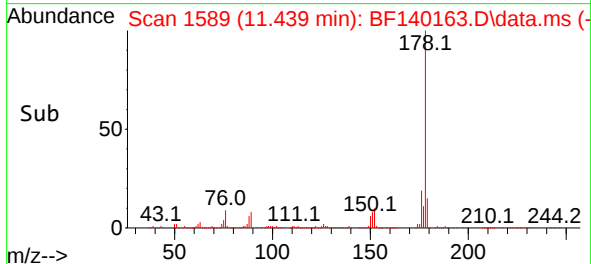
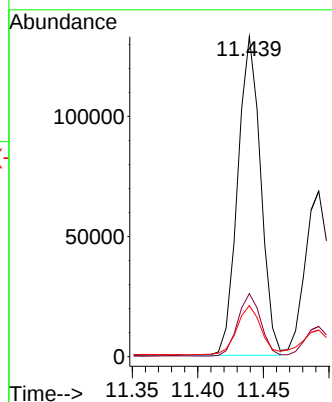
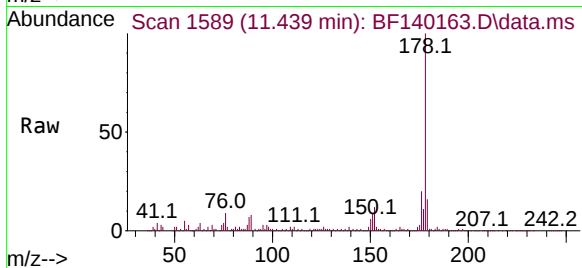
Tgt Ion:178 Resp: 161426

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.6

179 15.9 12.6 18.8



#72

Anthracene

Concen: 9.493 ng

RT: 11.492 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

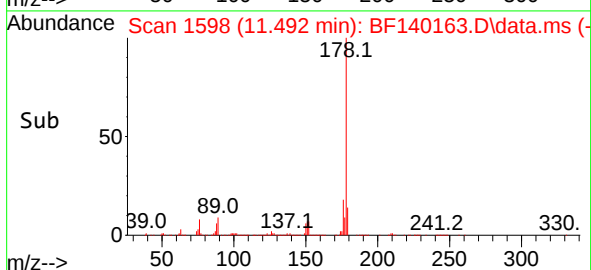
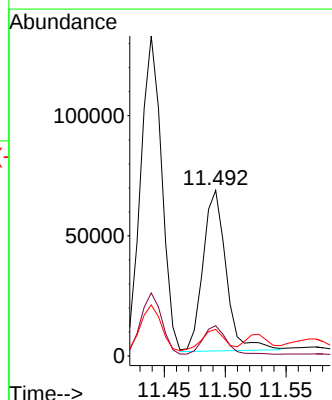
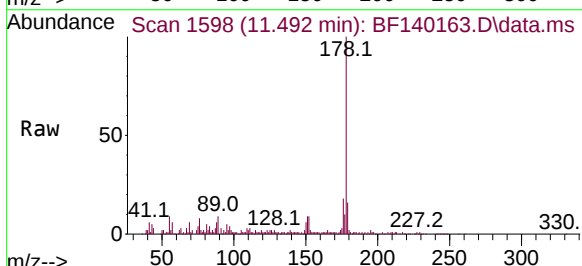
Tgt Ion:178 Resp: 88480

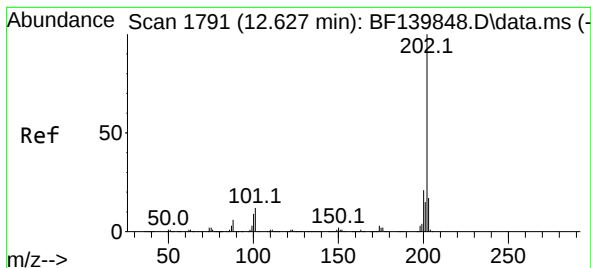
Ion Ratio Lower Upper

178 100

176 18.3 15.3 22.9

179 16.0 12.4 18.6

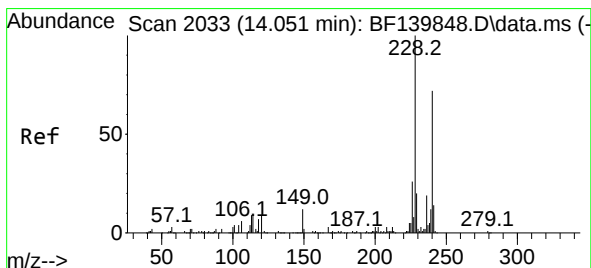
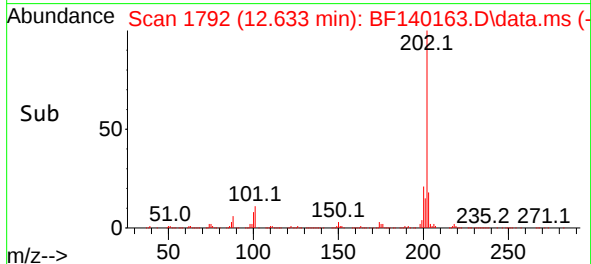
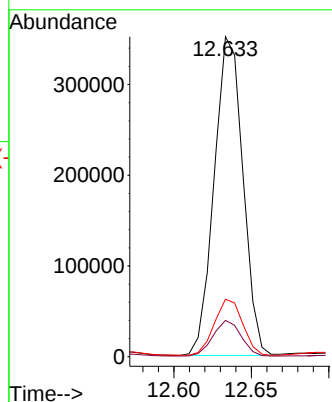
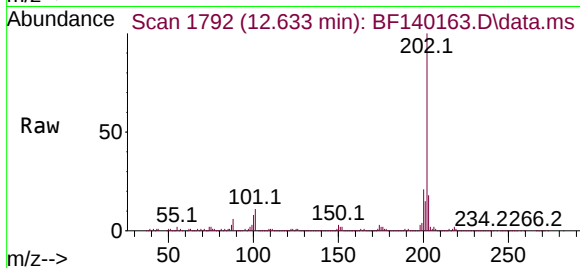




#75
Fluoranthene
Concen: 46.936 ng
RT: 12.633 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

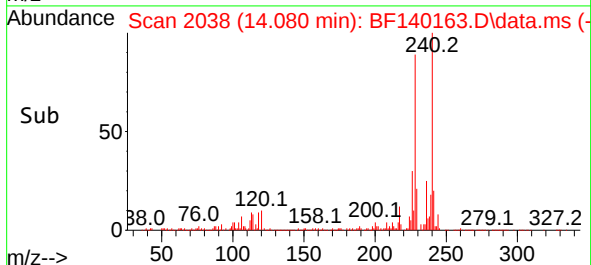
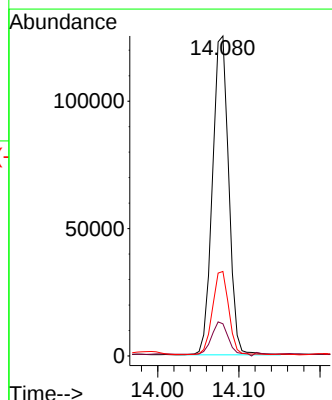
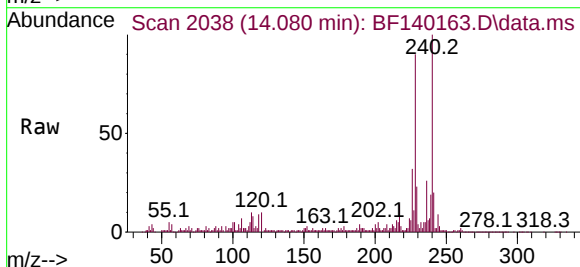
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

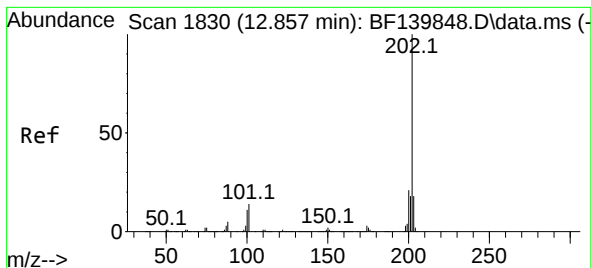
Tgt Ion:202 Resp: 453252
Ion Ratio Lower Upper
202 100
101 11.4 0.0 31.9
203 18.0 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.030 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:240 Resp: 174193
Ion Ratio Lower Upper
240 100
120 10.1 9.4 14.2
236 26.4 20.9 31.3





#78

Pyrene

Concen: 33.909 ng

RT: 12.869 min Scan# 1832

Delta R.T. 0.012 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

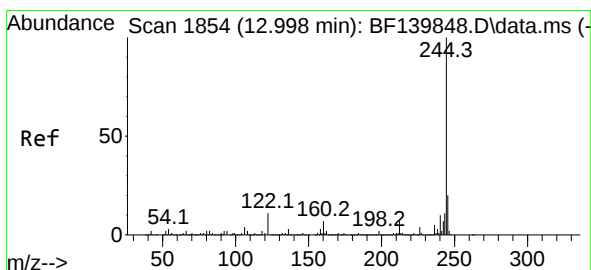
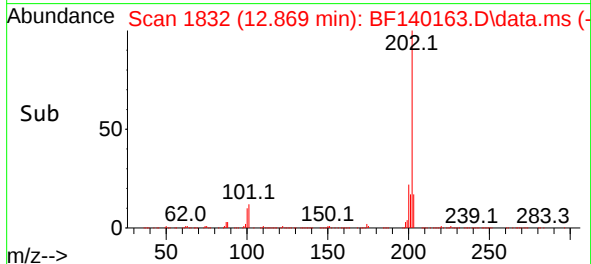
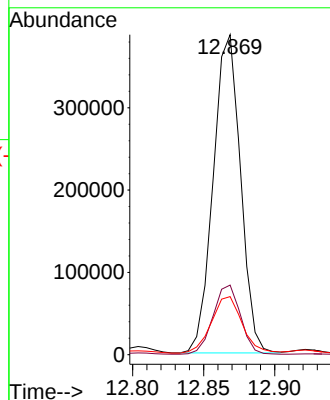
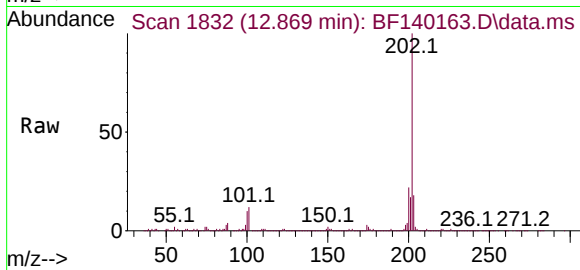
Tgt Ion:202 Resp: 517030

Ion Ratio Lower Upper

202 100

200 21.8 17.2 25.8

203 18.1 14.2 21.4



#79

Terphenyl-d14

Concen: 41.546 ng

RT: 13.010 min Scan# 1856

Delta R.T. 0.012 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

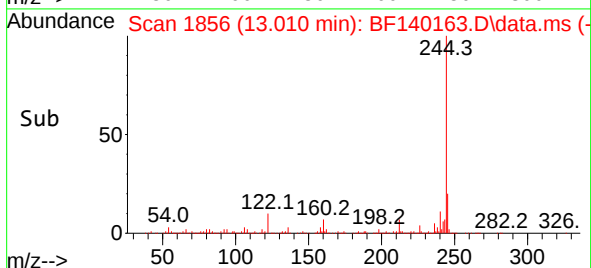
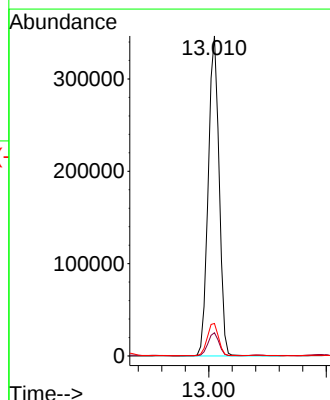
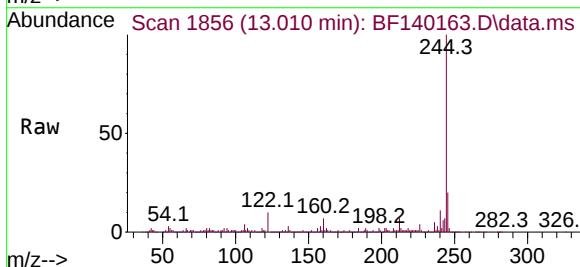
Tgt Ion:244 Resp: 444127

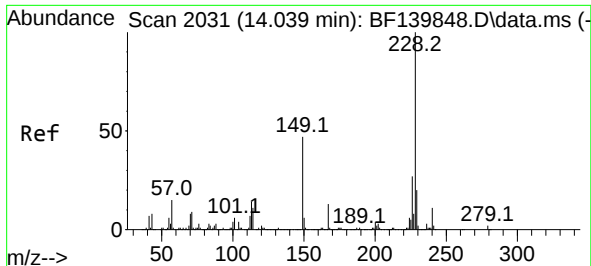
Ion Ratio Lower Upper

244 100

212 7.2 5.7 8.5

122 10.1 8.6 13.0

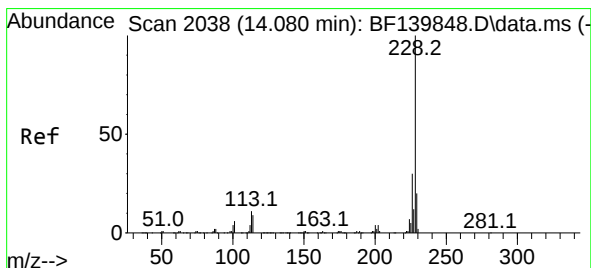
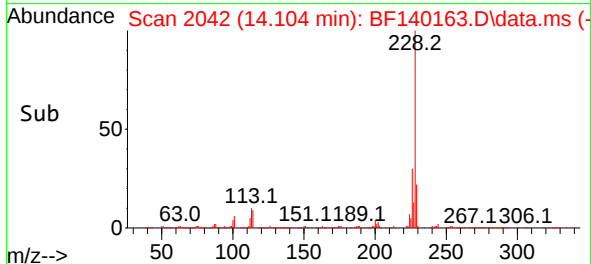
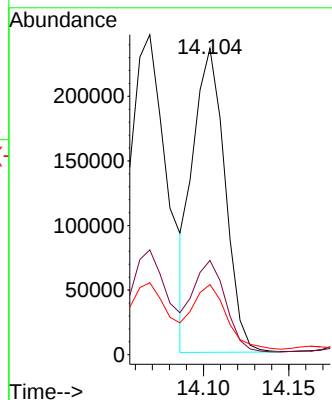
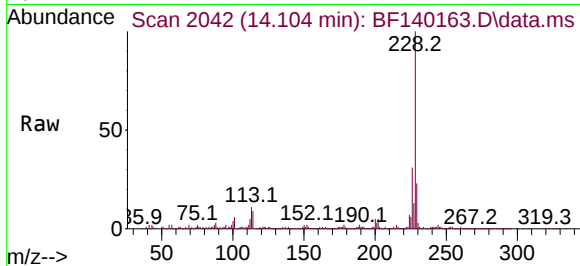




#81
Benzo(a)anthracene
Concen: 27.173 ng
RT: 14.104 min Scan# 2042
Delta R.T. 0.065 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

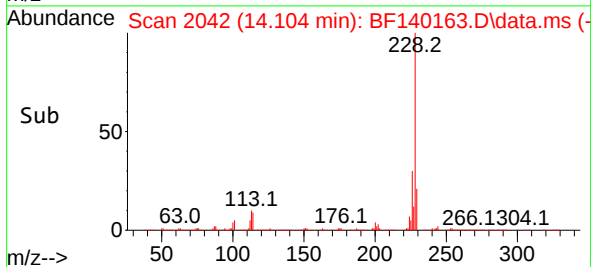
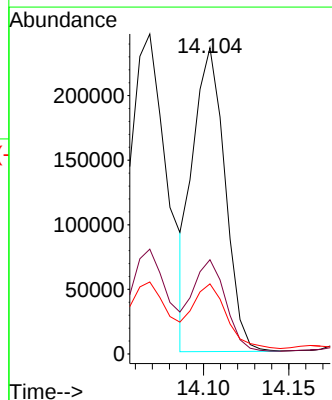
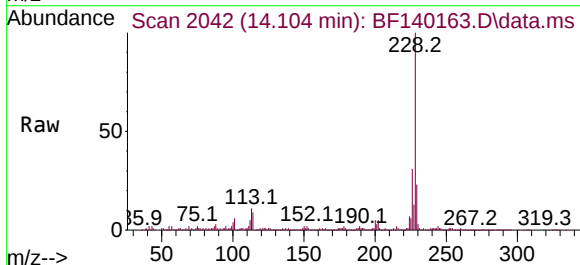
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

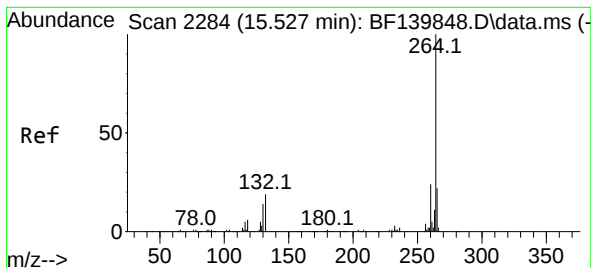
Tgt Ion:228 Resp: 308129
Ion Ratio Lower Upper
228 100
226 30.8 21.6 32.4
229 22.9 16.1 24.1



#83
Chrysene
Concen: 29.637 ng
RT: 14.104 min Scan# 2042
Delta R.T. 0.024 min
Lab File: BF140163.D
Acq: 30 Oct 2024 17:46

Tgt Ion:228 Resp: 308129
Ion Ratio Lower Upper
228 100
226 30.8 24.1 36.1
229 22.9 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.598 min Scan# 21

Delta R.T. 0.071 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

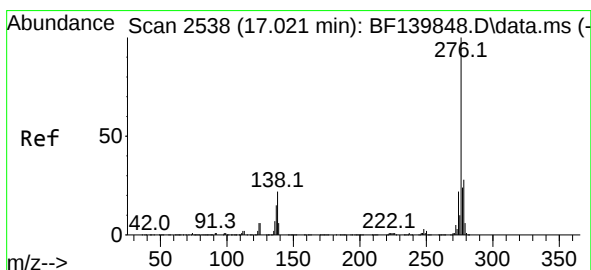
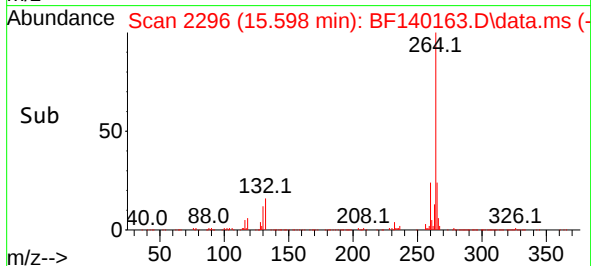
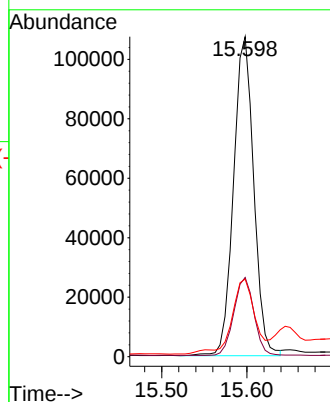
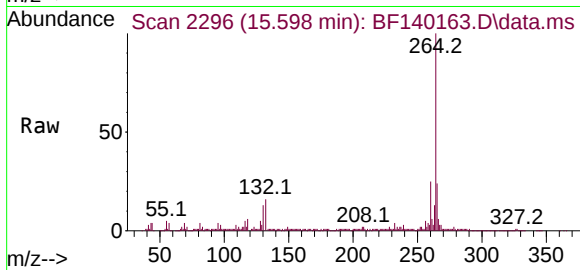
Tgt Ion:264 Resp: 176450

Ion Ratio Lower Upper

264 100

260 24.7 19.4 29.2

265 24.2 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.435 ng

RT: 16.951 min Scan# 2526

Delta R.T. -0.070 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

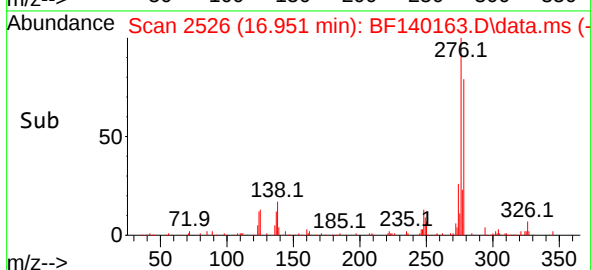
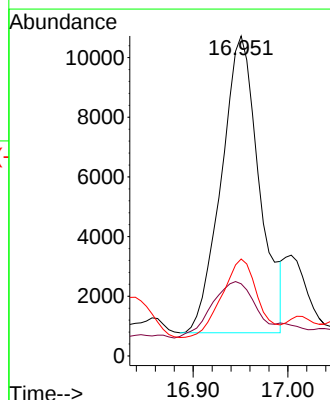
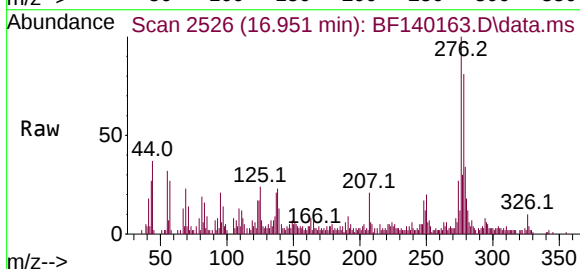
Tgt Ion:276 Resp: 27643

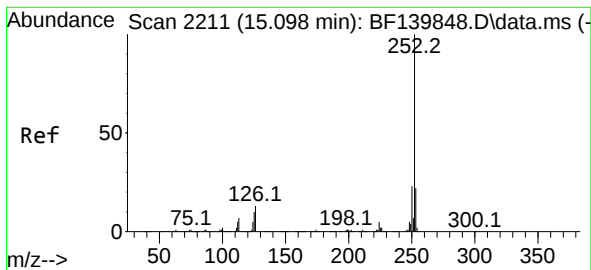
Ion Ratio Lower Upper

276 100

138 22.4 20.4 30.6

277 25.3 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 52.051 ng

RT: 15.157 min Scan# 2211

Delta R.T. 0.059 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

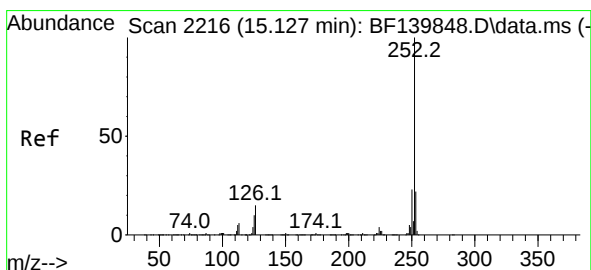
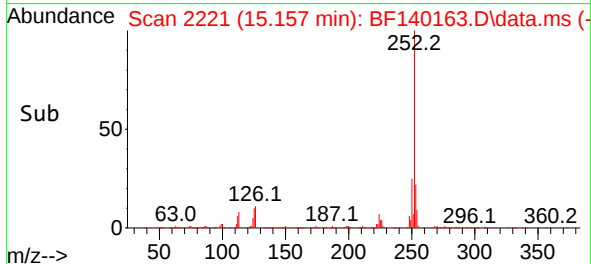
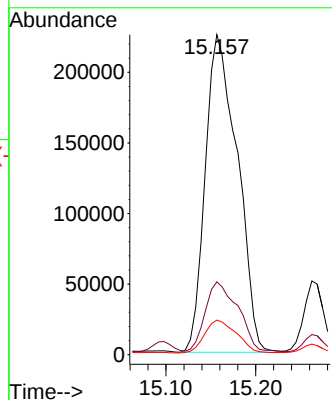
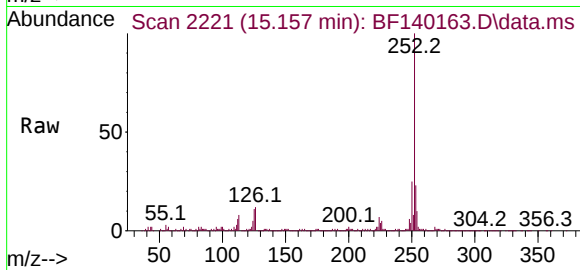
Tgt Ion:252 Resp: 559472

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 10.8 7.9 11.9



#89

Benzo(k)fluoranthene

Concen: 60.355 ng

RT: 15.157 min Scan# 2221

Delta R.T. 0.030 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

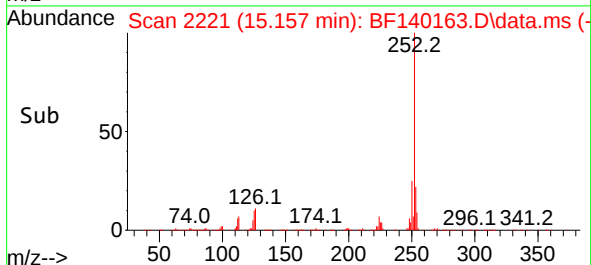
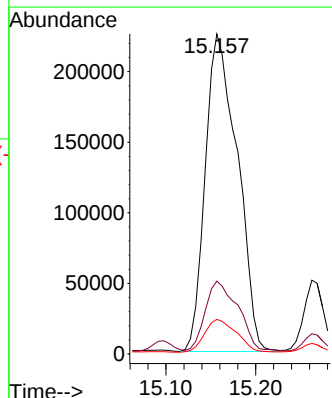
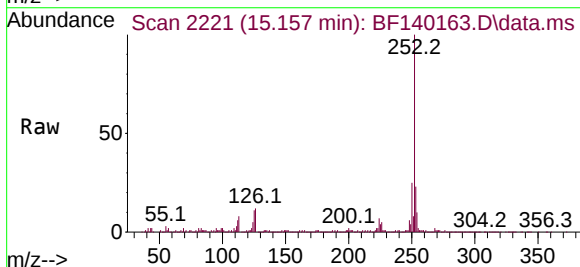
Tgt Ion:252 Resp: 559472

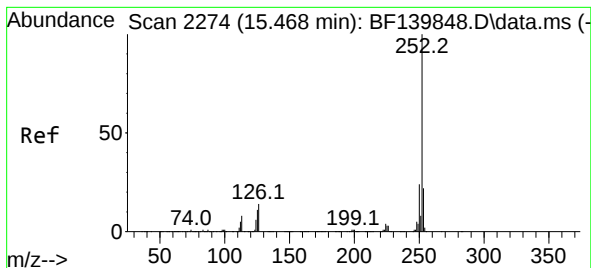
Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 10.8 7.9 11.9





#90

Benzo(a)pyrene

Concen: 33.985 ng

RT: 15.533 min Scan# 21

Delta R.T. 0.065 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

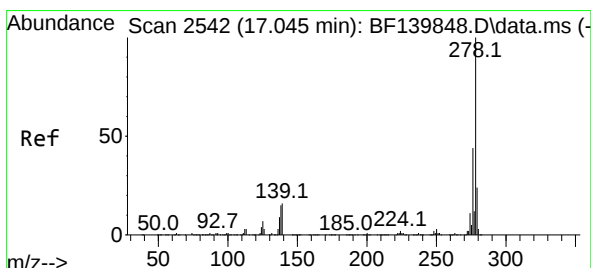
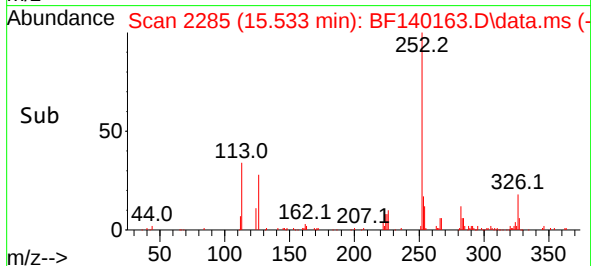
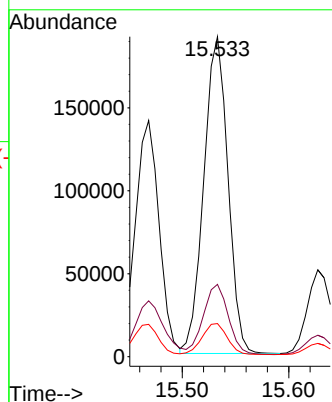
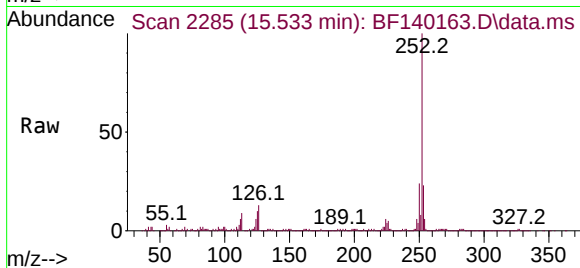
Tgt Ion:252 Resp: 300577

Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

125 10.3 8.7 13.1



#91

Dibenzo(a,h)anthracene

Concen: 3.751 ng

RT: 17.127 min Scan# 2556

Delta R.T. 0.082 min

Lab File: BF140163.D

Acq: 30 Oct 2024 17:46

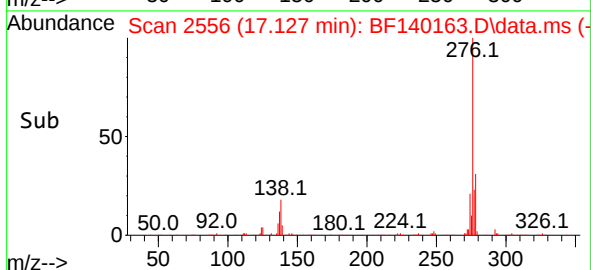
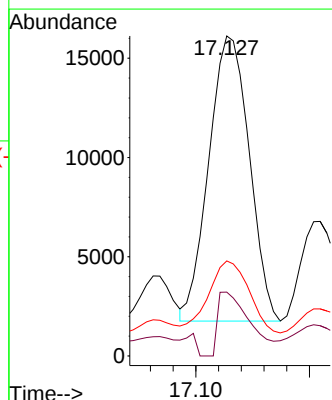
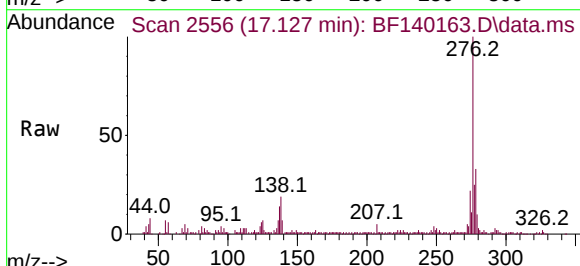
Tgt Ion:278 Resp: 35517

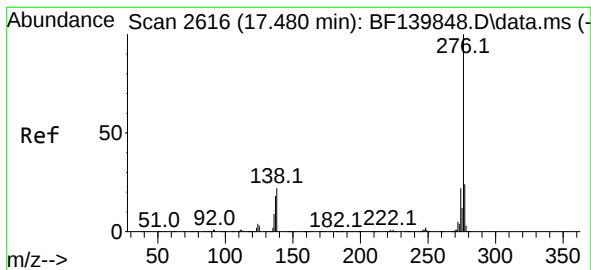
Ion Ratio Lower Upper

278 100

139 19.9 13.1 19.7#

279 29.7 19.0 28.4#





#92

Benzo(g,h,i)perylene

Concen: 13.147 ng

RT: 17.580 min Scan# 20

Delta R.T. 0.100 min

Lab File: BF140163.D

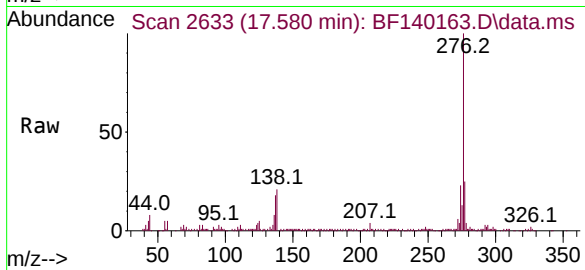
Acq: 30 Oct 2024 17:46

Instrument :

BNA_F

ClientSampleId :

RO-SOIL



Tgt Ion:276 Resp: 124359

Ion Ratio Lower Upper

276 100

277 25.1 19.0 28.6

138 21.3 17.4 26.0

