

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070225\
 Data File : BF142981.D
 Acq On : 02 Jul 2025 20:22
 Operator : RC/JU
 Sample : Q2475-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

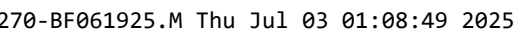
Quant Time: Jul 03 01:08:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

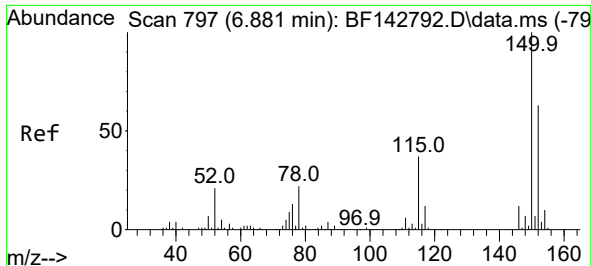
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	60070	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	223029	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	114131	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	162227	20.000	ng	0.00
76) Chrysene-d12	14.051	240	128994	20.000	ng	0.00
86) Perylene-d12	15.539	264	108225	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	291524	80.800	ng	0.00
7) Phenol-d6	6.504	99	356144	83.667	ng	0.00
23) Nitrobenzene-d5	7.433	82	218363	53.703	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	89591	76.281	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	437761	50.387	ng	-0.01
79) Terphenyl-d14	12.986	244	343091	36.750	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.433	70	29369	11.863	ng	# 75
25) Isophorone	7.433	82	218360	33.477	ng	# 62
51) 2,6-Dinitrotoluene	9.910	165	15199	9.368	ng	# 26
56) 4-Nitrophenol	10.116	139	3909	3.196	ng	# 10
57) 2,4-Dinitrotoluene	9.910	165	15199	7.053	ng	# 26
58) Fluorene	10.463	166	21262	2.794	ng	99
63) Azobenzene	10.627	77	33311	5.145	ng	# 1
67) 4-Bromophenyl-phenylether	10.704	248	5629	3.049	ng	# 1
71) Phenanthrene	11.427	178	145923	16.605	ng	100
72) Anthracene	11.474	178	23332	2.589	ng	98
73) Carbazole	11.633	167	17386	2.235	ng	100
75) Fluoranthene	12.621	202	386249	46.312	ng	99
78) Pyrene	12.851	202	327541	27.089	ng	99
81) Benzo(a)anthracene	14.039	228	133643	15.358	ng	96
83) Chrysene	14.074	228	154194	19.858	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	34035	4.129	ng	95
88) Benzo(b)fluoranthene	15.104	252	211282	33.738	ng	99
89) Benzo(k)fluoranthene	15.104	252	211282	36.062	ng	98
90) Benzo(a)pyrene	15.480	252	74236	12.271	ng	99
92) Benzo(g,h,i)perylene	17.503	276	30772	4.607	ng	97

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

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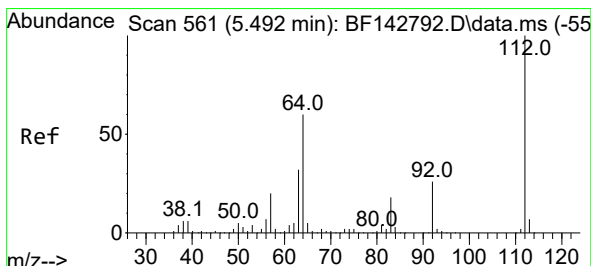
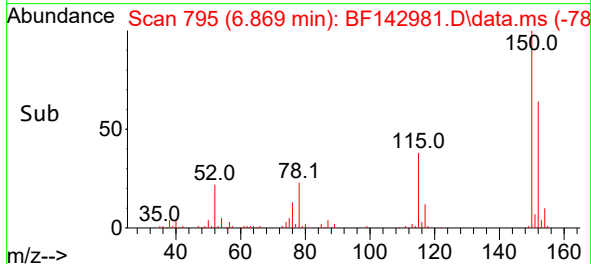
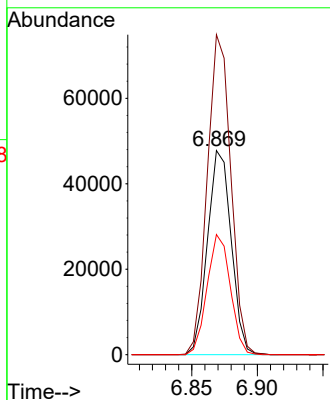
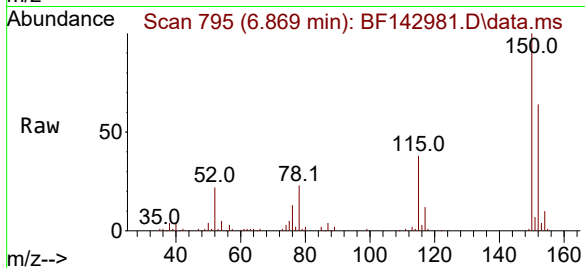




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

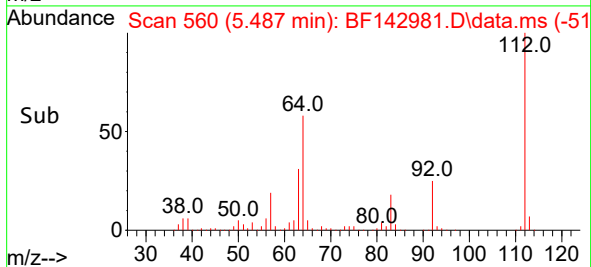
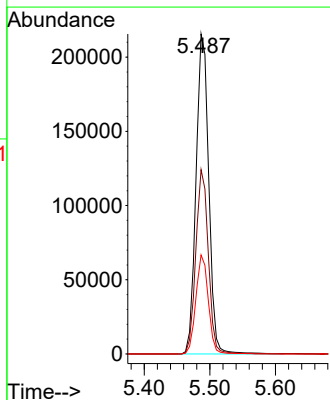
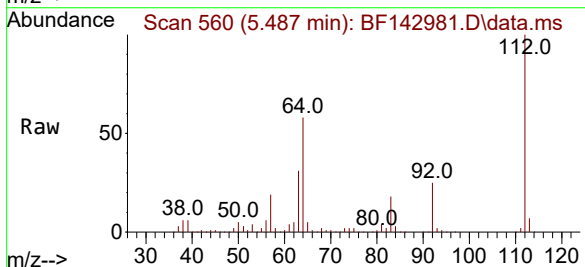
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ClientSampleId :
SOIL-PILE

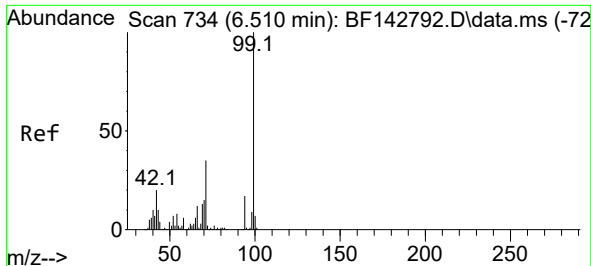
Tgt Ion:152 Resp: 60070
Ion Ratio Lower Upper
152 100
150 156.7 127.2 190.8
115 58.9 46.6 69.8



#5
2-Fluorophenol
Concen: 80.800 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.005 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:112 Resp: 291524
Ion Ratio Lower Upper
112 100
64 57.6 48.2 72.2
63 30.9 25.7 38.5

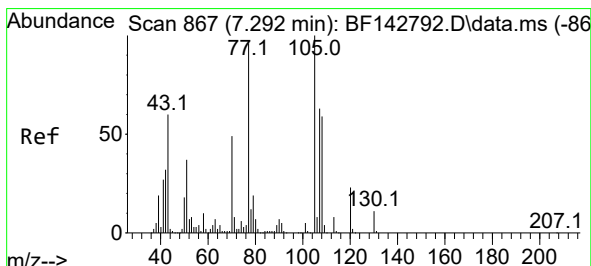
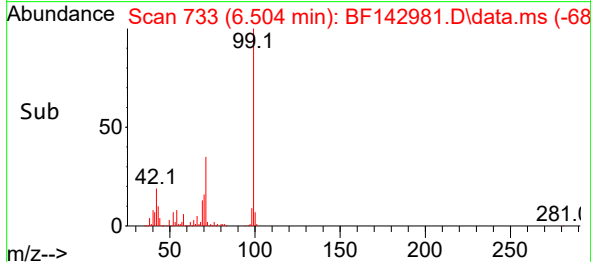
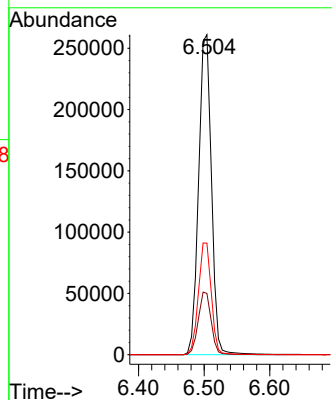
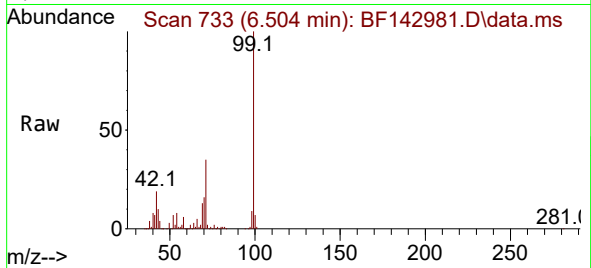




#7
Phenol-d6
Concen: 83.667 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

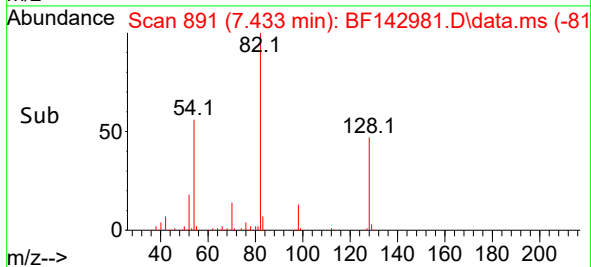
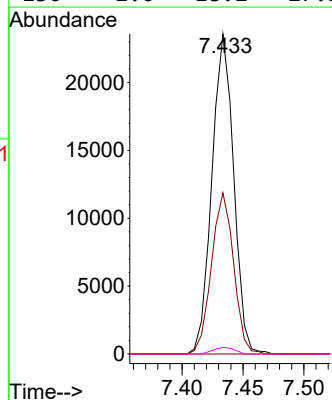
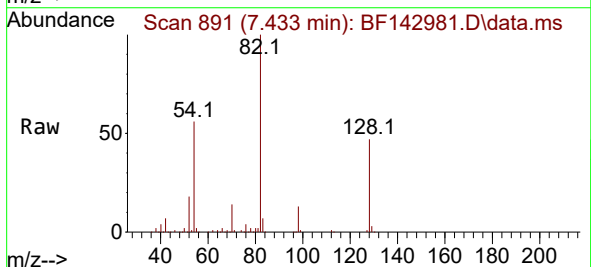
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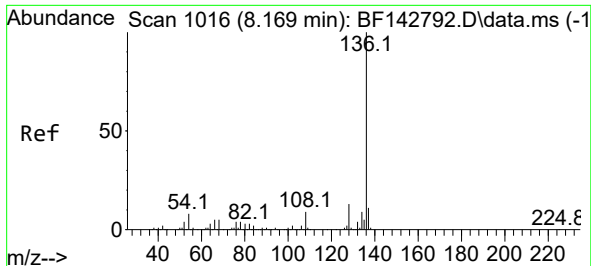
Tgt Ion: 99 Resp: 356144
Ion Ratio Lower Upper
99 100
42 19.1 15.9 23.9
71 34.9 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 11.863 ng
RT: 7.433 min Scan# 891
Delta R.T. 0.141 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion: 70 Resp: 29369
Ion Ratio Lower Upper
70 100
42 50.3 52.1 78.1#
101 0.0 8.2 12.2#
130 2.0 18.2 27.2#

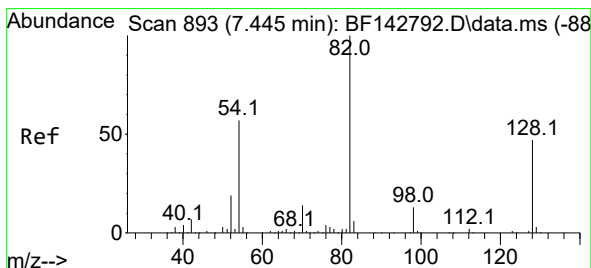
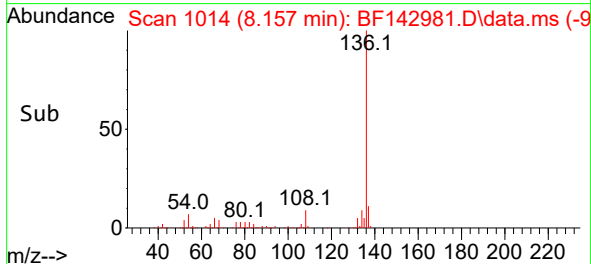
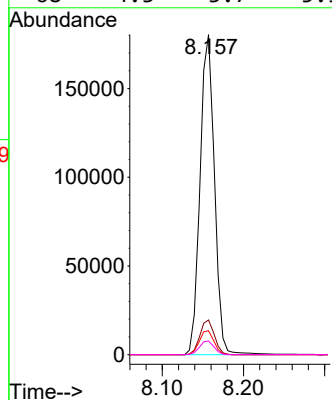
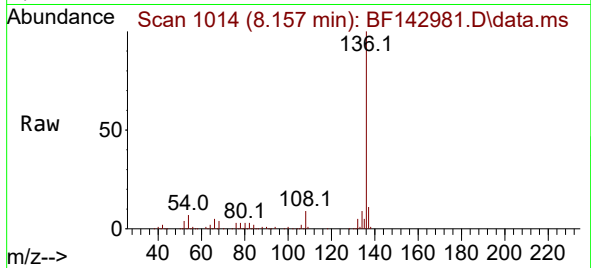




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

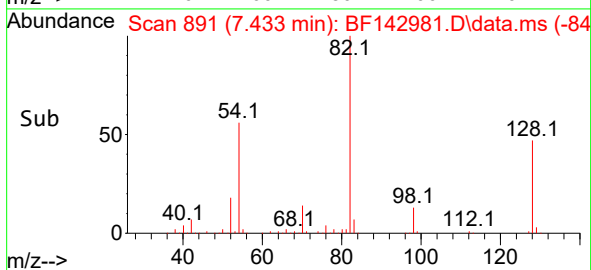
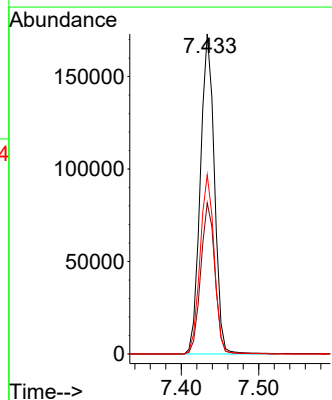
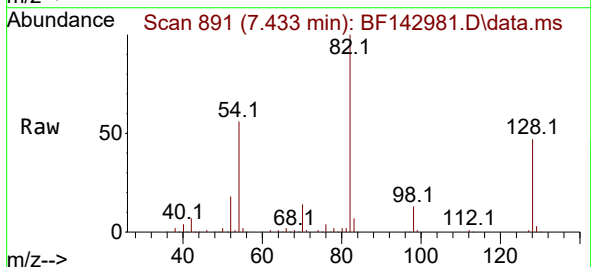
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ClientSampleId :
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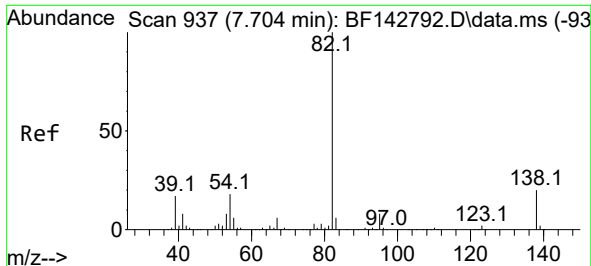
Tgt Ion:136 Resp: 223029
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.5 6.3 9.5
68 4.3 3.7 5.5



#23
Nitrobenzene-d5
Concen: 53.703 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

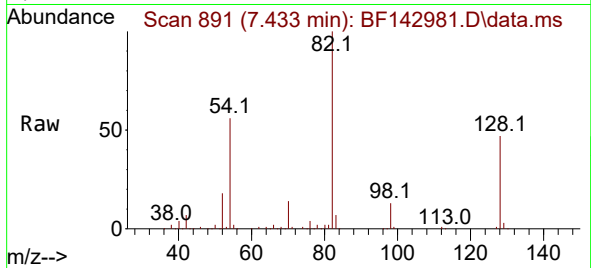
Tgt Ion: 82 Resp: 218363
Ion Ratio Lower Upper
82 100
128 47.2 37.7 56.5
54 55.9 45.7 68.5



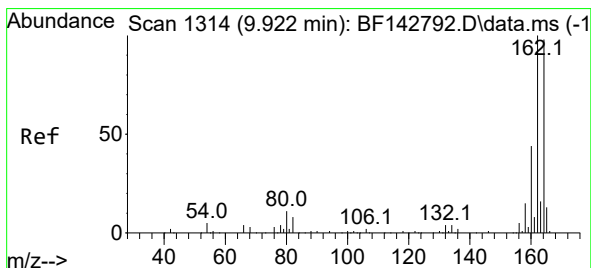
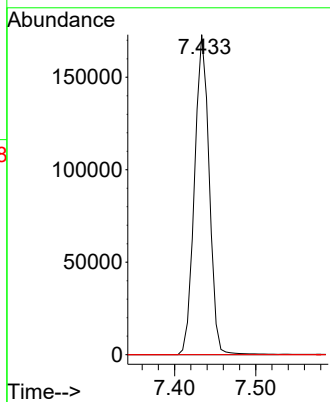
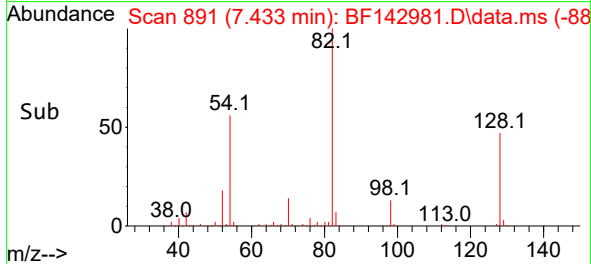


#25
Isophorone
Concen: 33.477 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.271 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

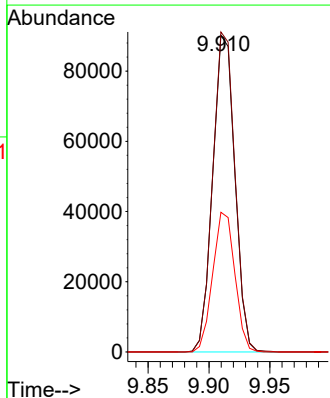
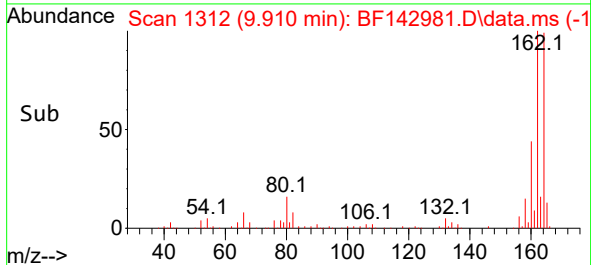
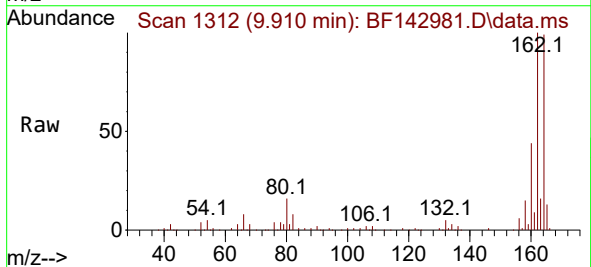


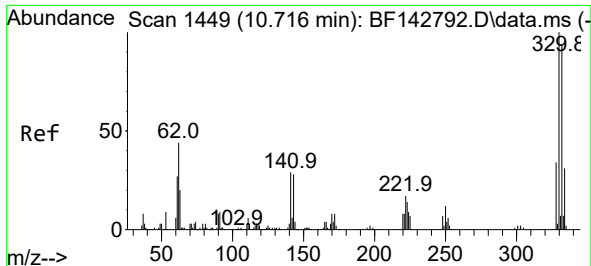
Tgt Ion: 82 Resp: 218360
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:164 Resp: 114131
Ion Ratio Lower Upper
164 100
162 101.1 81.8 122.8
160 44.1 36.0 54.0

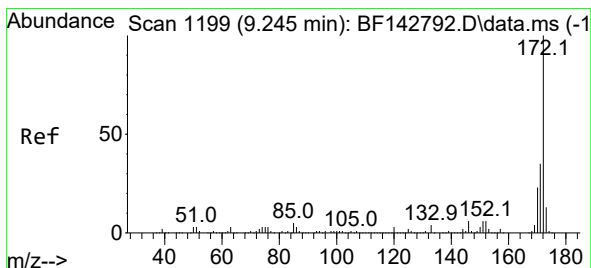
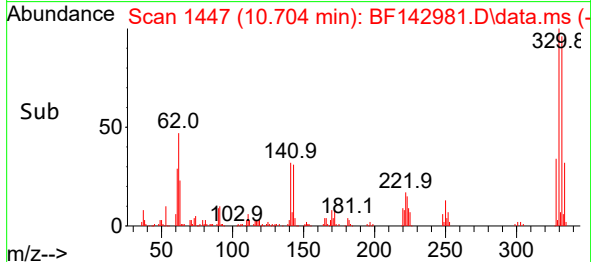
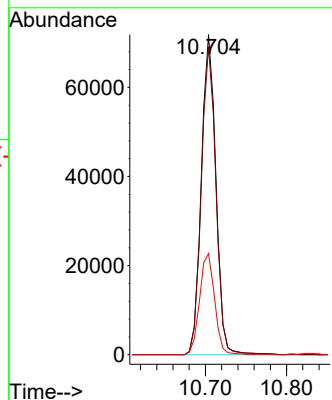
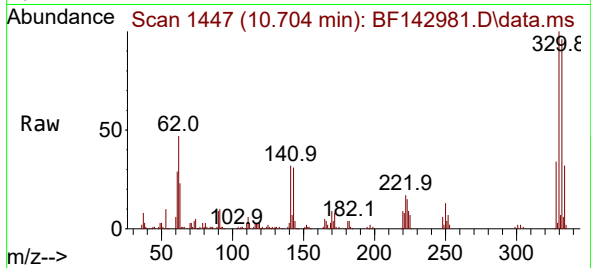




#42
2,4,6-Tribromophenol
Concen: 76.281 ng
RT: 10.704 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

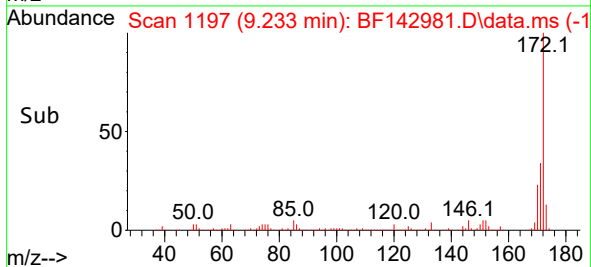
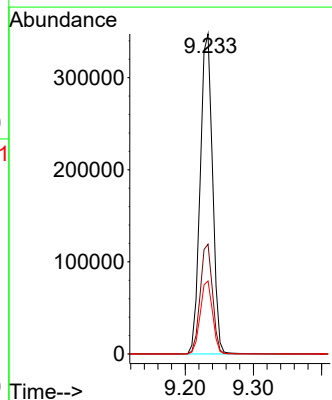
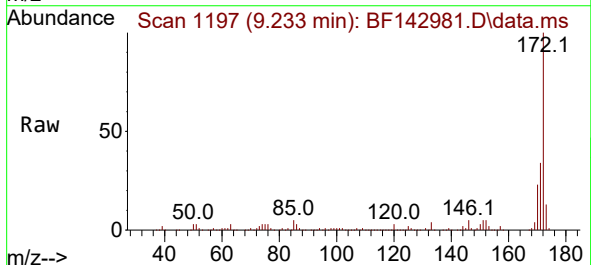
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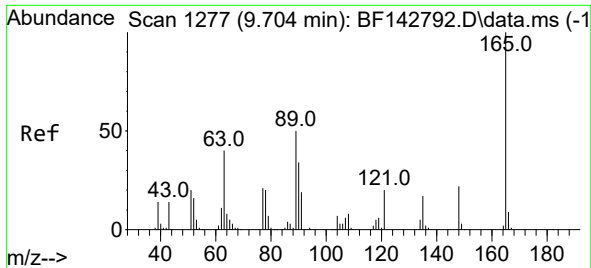
Tgt Ion: 330 Resp: 89591
Ion Ratio Lower Upper
330 100
332 96.3 75.0 112.6
141 32.5 25.3 37.9



#45
2-Fluorobiphenyl
Concen: 50.387 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion: 172 Resp: 437761
Ion Ratio Lower Upper
172 100
171 34.3 28.2 42.4
170 22.8 18.5 27.7

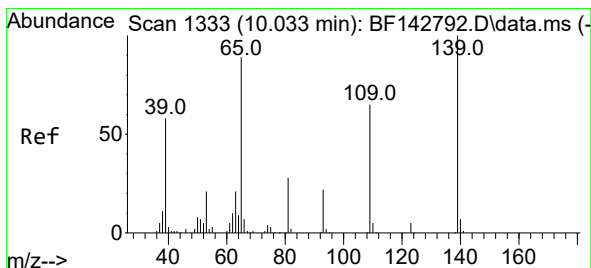
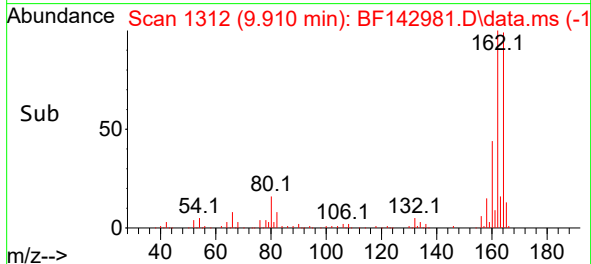
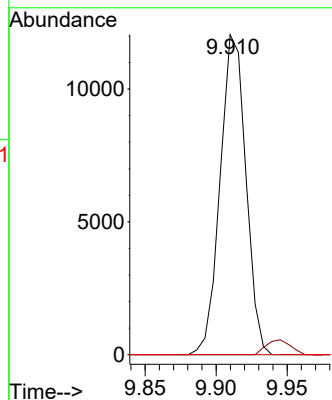
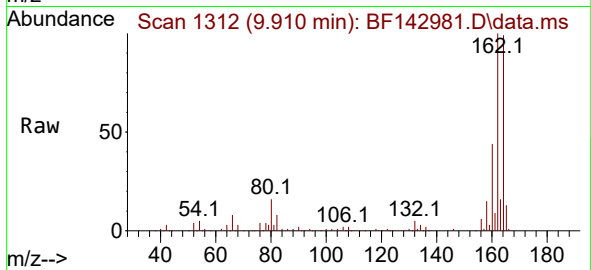




#51
2,6-Dinitrotoluene
Concen: 9.368 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

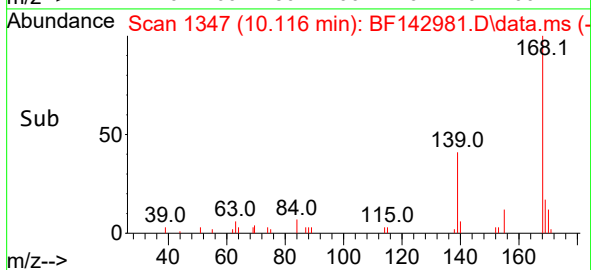
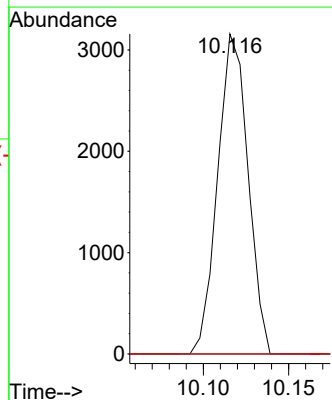
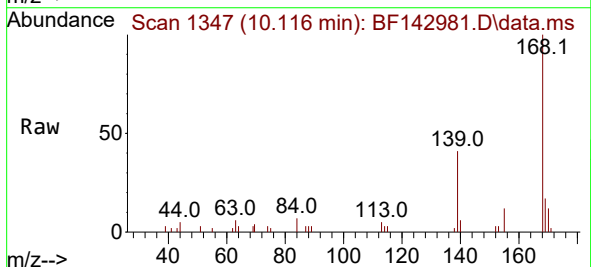
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ClientSampleId :
SOIL-PILE

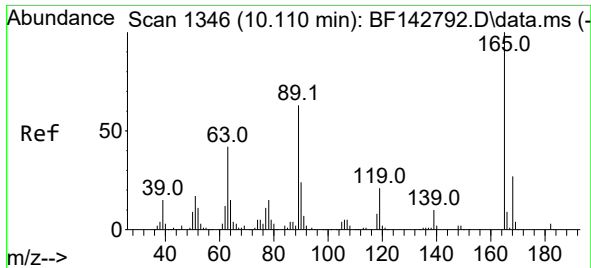
Tgt Ion:165	Resp:	15199
Ion Ratio	Lower	Upper
165	100	
63	0.0	44.2 66.4#
89	0.0	39.8 59.8#



#56
4-Nitrophenol
Concen: 3.196 ng
RT: 10.116 min Scan# 1347
Delta R.T. 0.082 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:139	Resp:	3909
Ion Ratio	Lower	Upper
139	100	
109	0.0	44.7 84.7#
65	0.0	69.8 109.8#

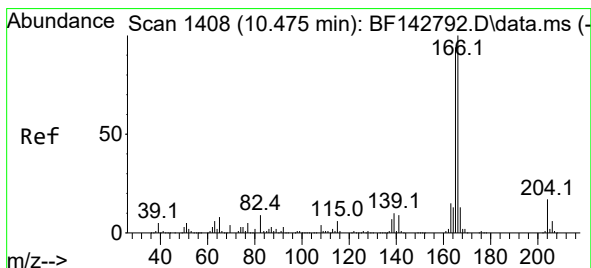
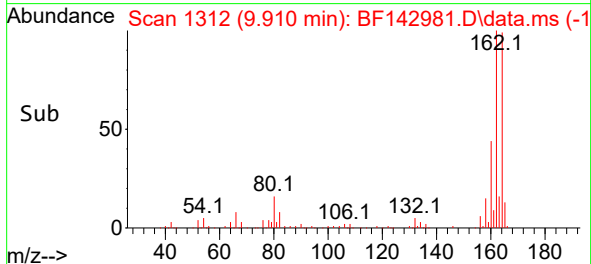
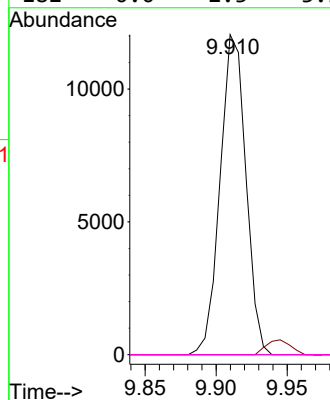
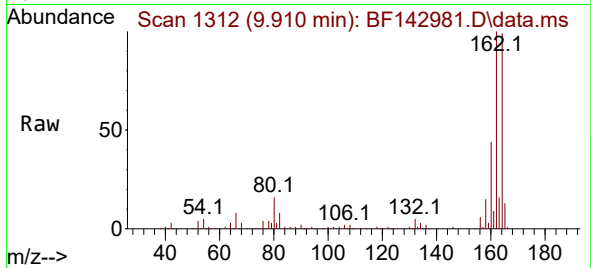




#57
2,4-Dinitrotoluene
Concen: 7.053 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.200 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

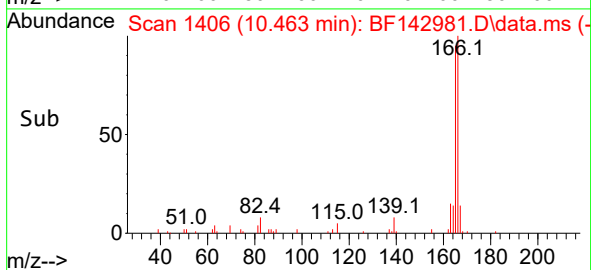
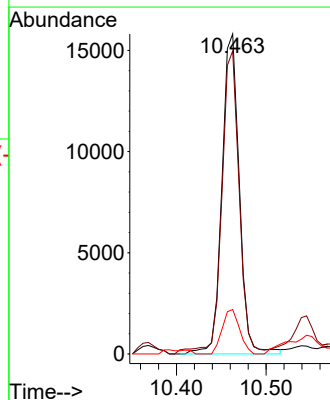
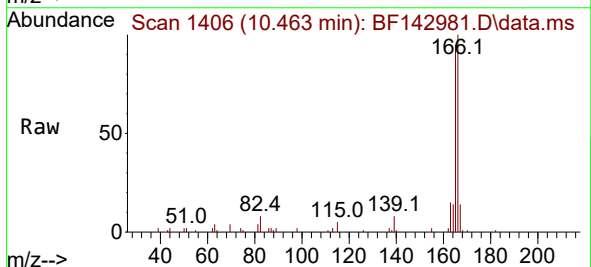
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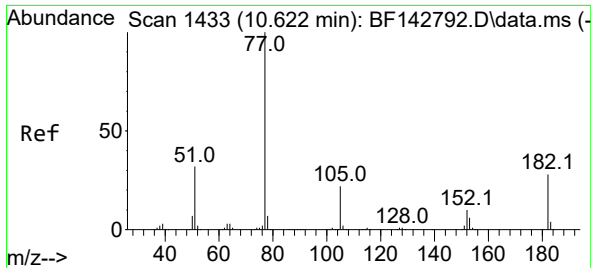
Tgt Ion:165 Resp: 15199
Ion Ratio Lower Upper
165 100
63 0.0 33.9 50.9#
89 0.0 50.6 75.8#
182 0.0 2.3 3.5#



#58
Fluorene
Concen: 2.794 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:166 Resp: 21262
Ion Ratio Lower Upper
166 100
165 94.7 75.2 112.8
167 13.9 10.6 15.8

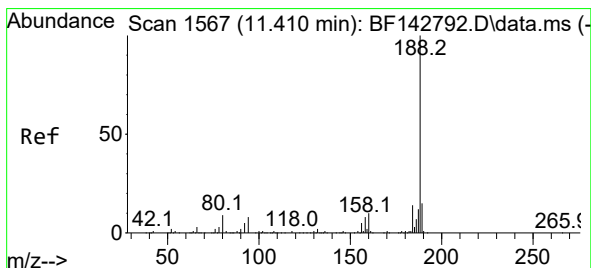
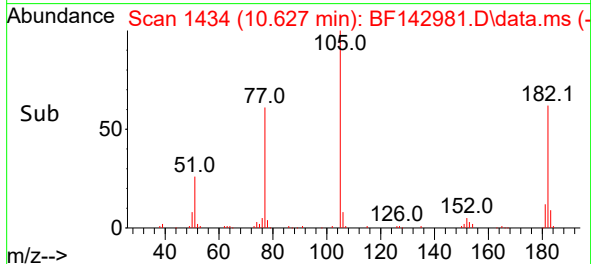
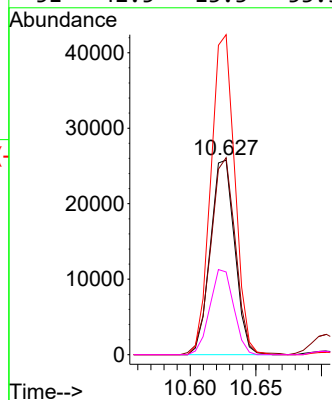
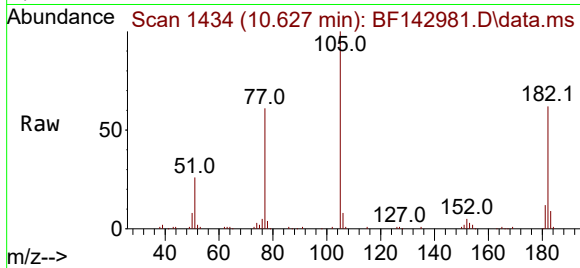




#63
Azobenzene
Concen: 5.145 ng
RT: 10.627 min Scan# 1433
Delta R.T. 0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

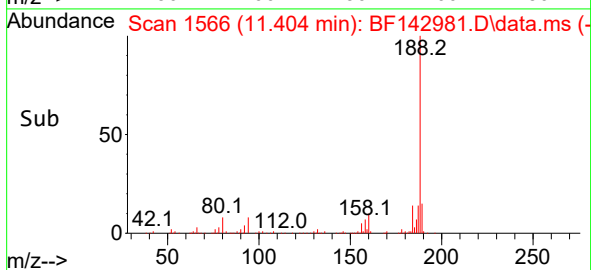
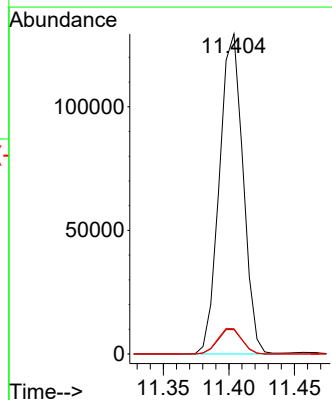
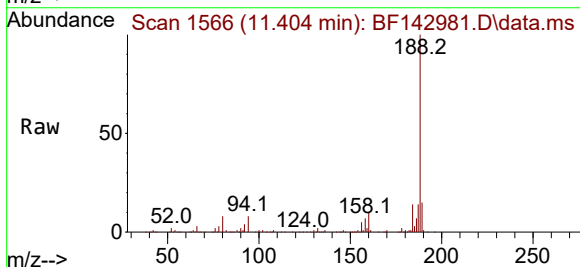
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

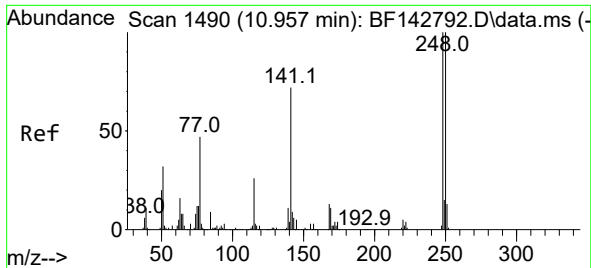
Tgt Ion: 77 Resp: 33311
Ion Ratio Lower Upper
77 100
182 101.2 7.7 47.7#
105 164.5 1.9 41.9#
51 42.5 13.3 53.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion: 188 Resp: 162227
Ion Ratio Lower Upper
188 100
94 7.6 6.7 10.1
80 7.9 6.9 10.3

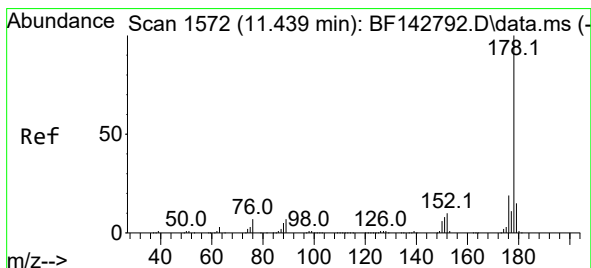
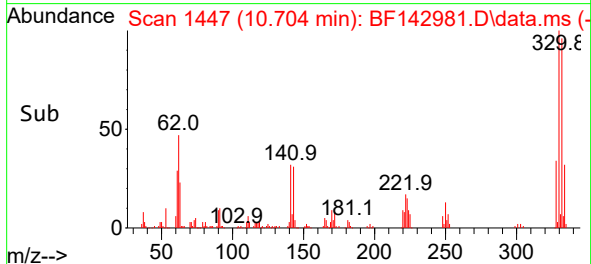
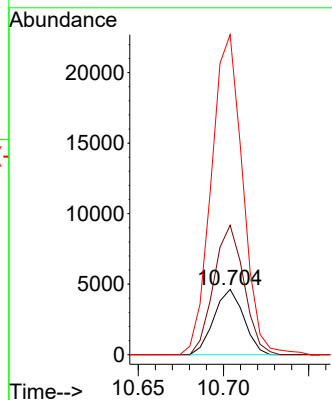
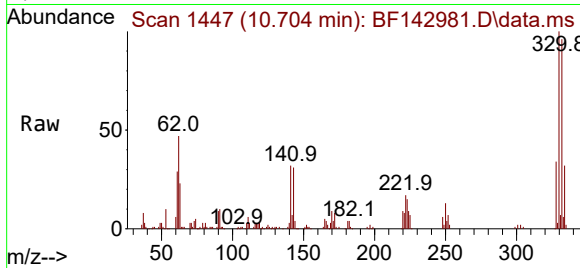




#67
4-Bromophenyl-phenylether
Concen: 3.049 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.253 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

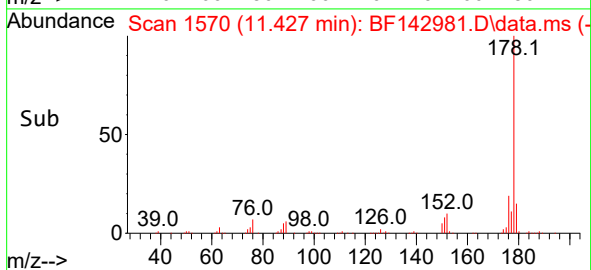
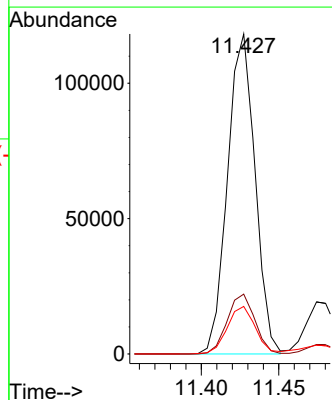
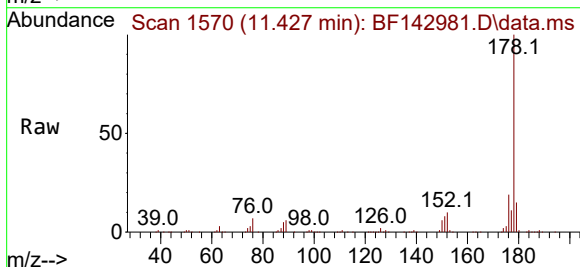
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

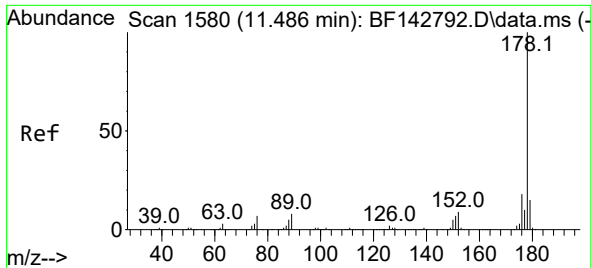
Tgt Ion:248 Resp: 5629
Ion Ratio Lower Upper
248 100
250 198.5 79.8 119.8#
141 490.6 57.8 86.6#



#71
Phenanthrene
Concen: 16.605 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:178 Resp: 145923
Ion Ratio Lower Upper
178 100
176 18.7 15.1 22.7
179 14.9 12.0 18.0

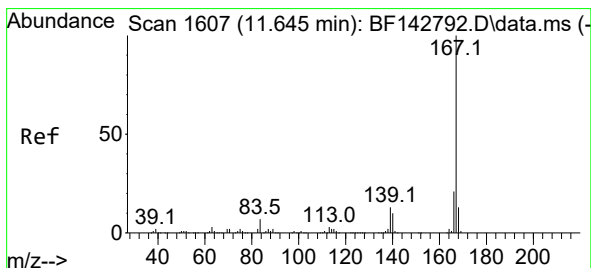
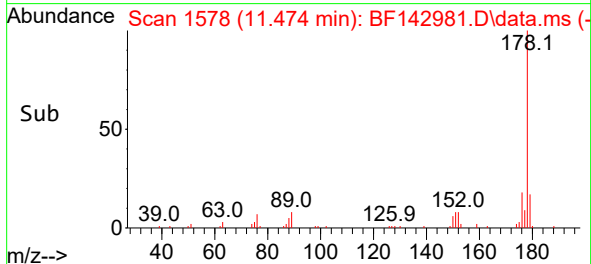
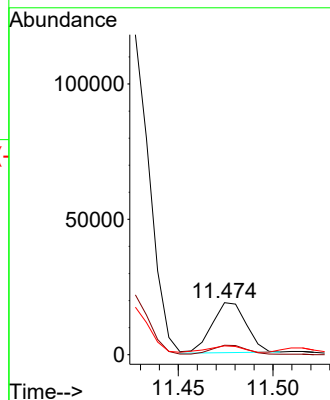
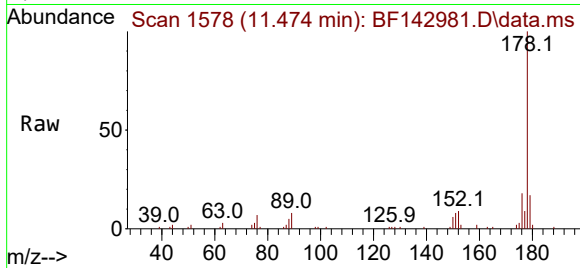




#72
 Anthracene
 Concen: 2.589 ng
 RT: 11.474 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF142981.D
 Acq: 02 Jul 2025 20:22

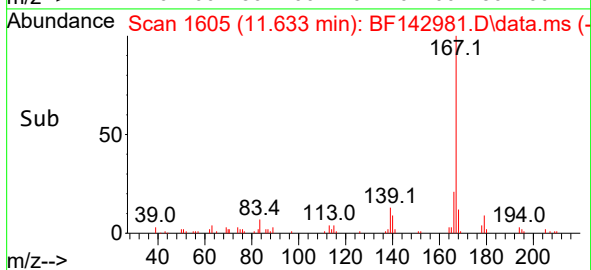
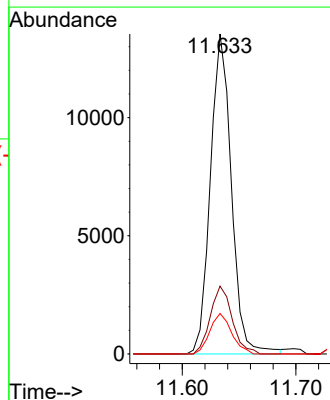
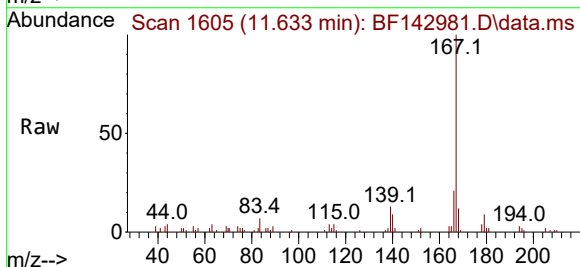
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

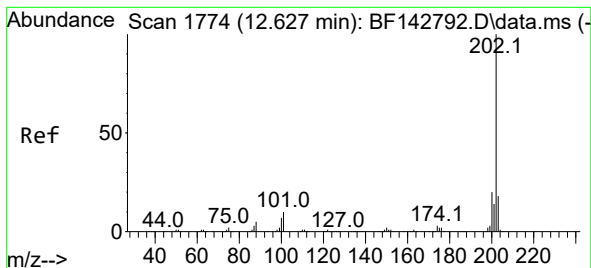
Tgt Ion:178 Resp: 23332
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 21.8
 179 16.9 12.4 18.6



#73
 Carbazole
 Concen: 2.235 ng
 RT: 11.633 min Scan# 1605
 Delta R.T. -0.012 min
 Lab File: BF142981.D
 Acq: 02 Jul 2025 20:22

Tgt Ion:167 Resp: 17386
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.0 25.4
 139 12.7 10.2 15.2





#75

Fluoranthene

Concen: 46.312 ng

RT: 12.621 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

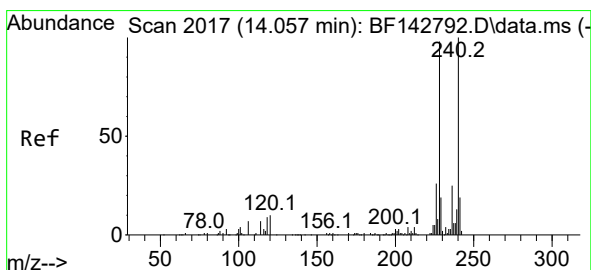
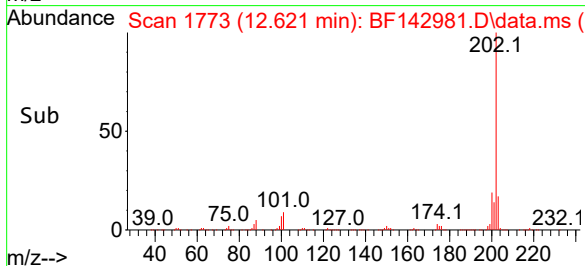
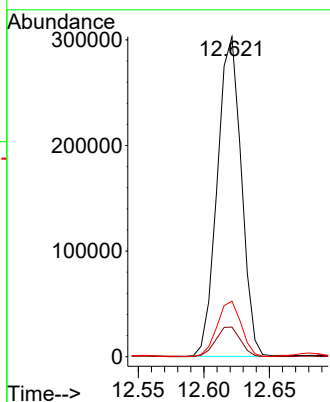
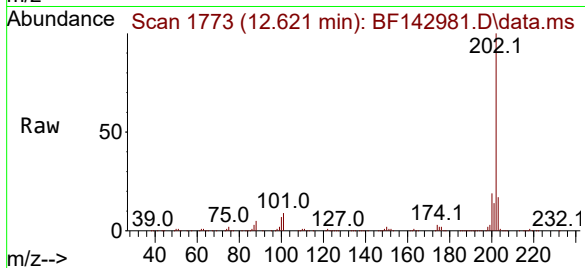
Tgt Ion:202 Resp: 386249

Ion Ratio Lower Upper

202 100

101 9.3 0.0 29.7

203 17.4 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

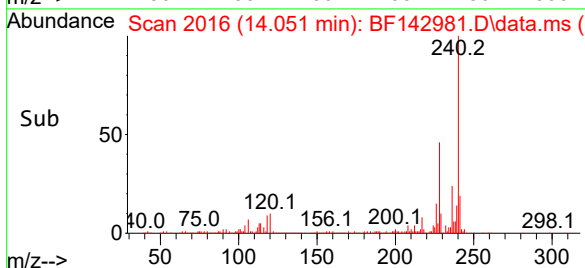
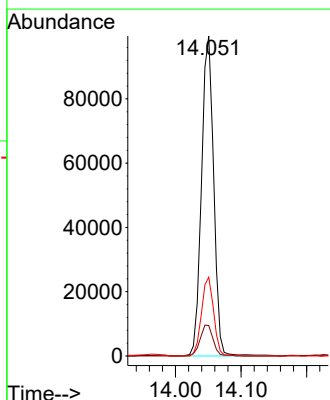
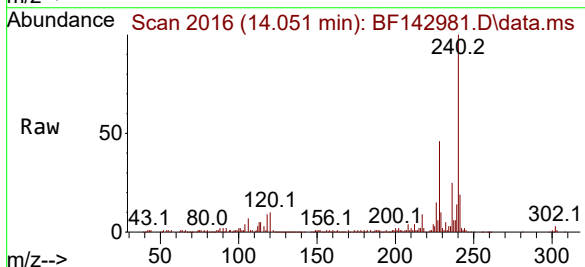
Tgt Ion:240 Resp: 128994

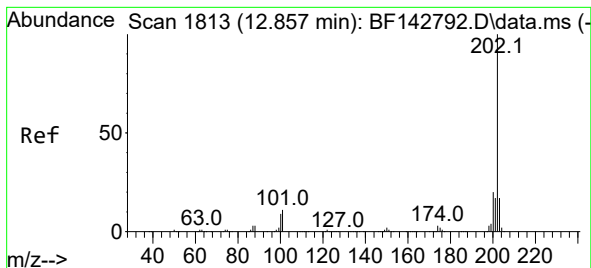
Ion Ratio Lower Upper

240 100

120 9.5 8.2 12.2

236 24.6 19.8 29.8





#78

Pyrene

Concen: 27.089 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

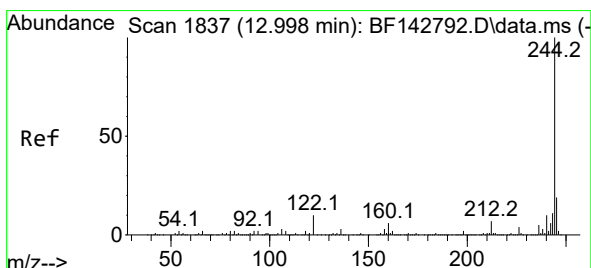
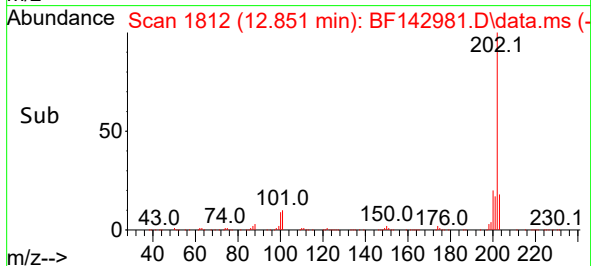
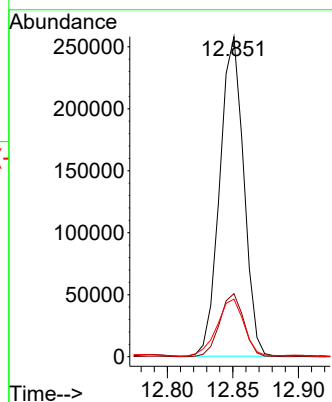
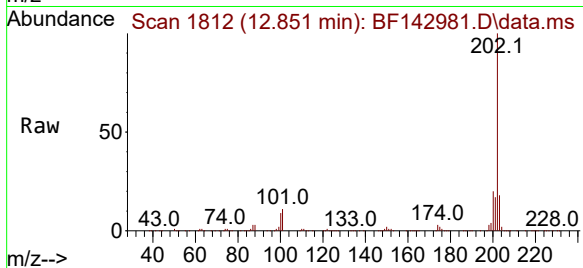
Tgt Ion:202 Resp: 327541

Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

203 18.0 13.8 20.6



#79

Terphenyl-d14

Concen: 36.750 ng

RT: 12.986 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

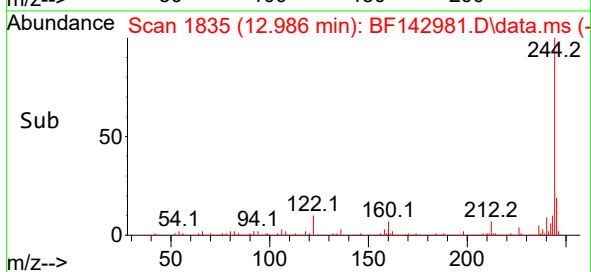
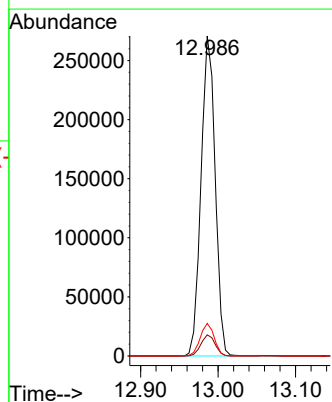
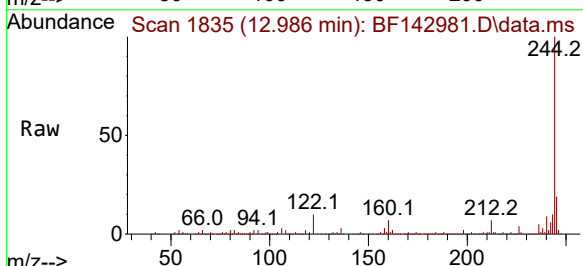
Tgt Ion:244 Resp: 343091

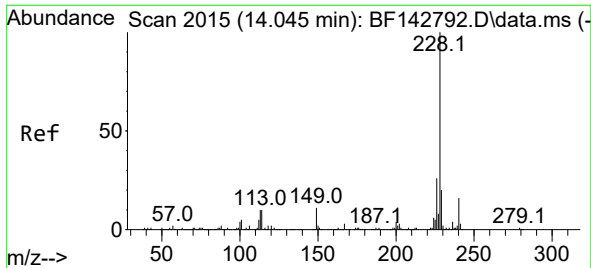
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.2 8.2 12.2

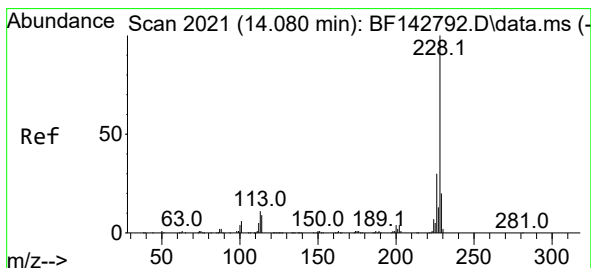
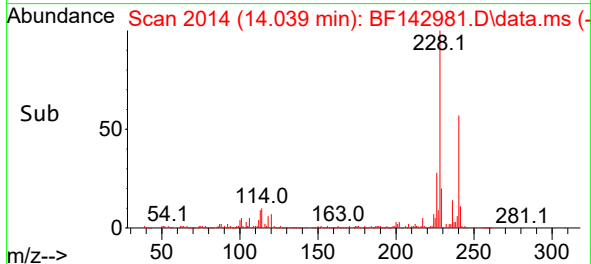
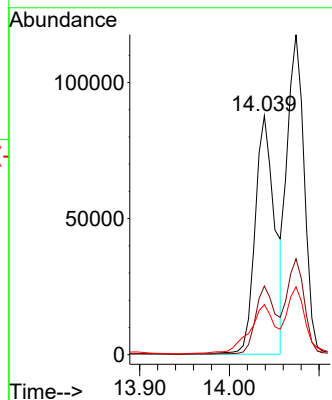
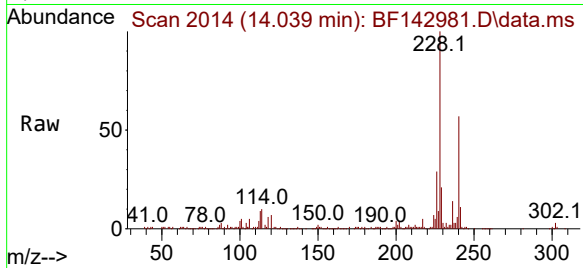




#81
Benzo(a)anthracene
Concen: 15.358 ng
RT: 14.039 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

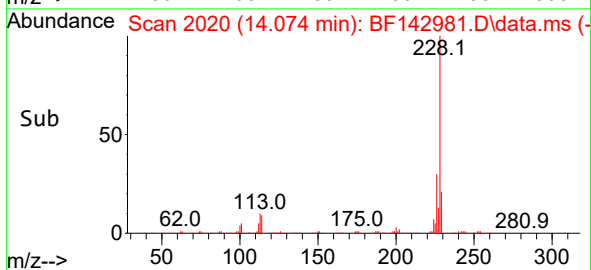
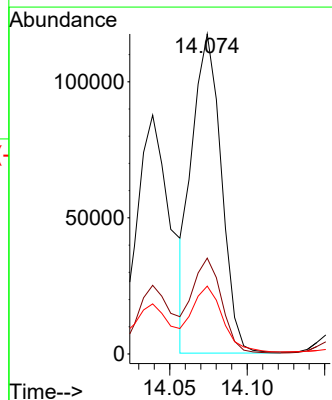
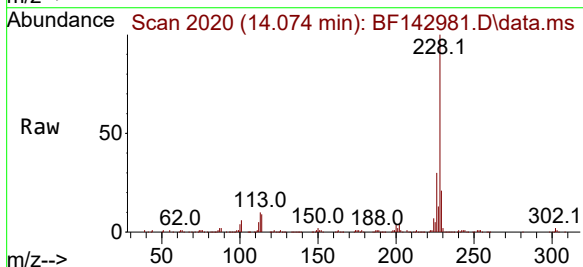
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

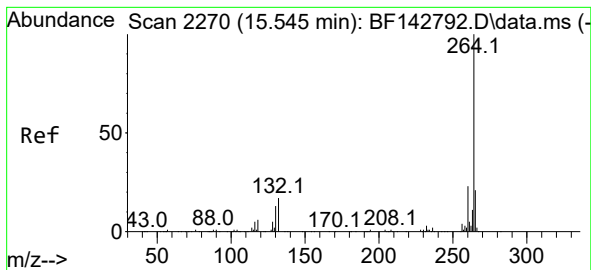
Tgt Ion:228 Resp: 133643
Ion Ratio Lower Upper
228 100
226 28.7 21.2 31.8
229 21.0 15.6 23.4



#83
Chrysene
Concen: 19.858 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF142981.D
Acq: 02 Jul 2025 20:22

Tgt Ion:228 Resp: 154194
Ion Ratio Lower Upper
228 100
226 29.9 23.7 35.5
229 21.2 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

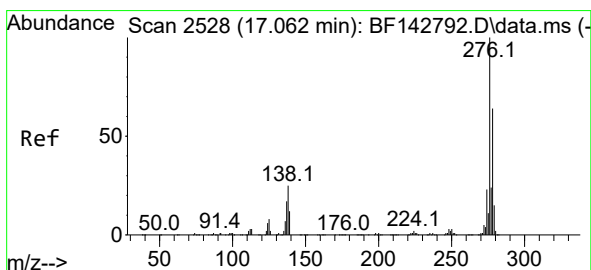
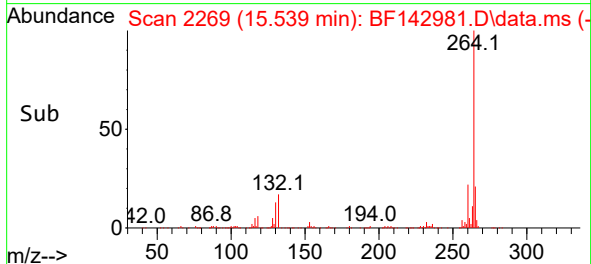
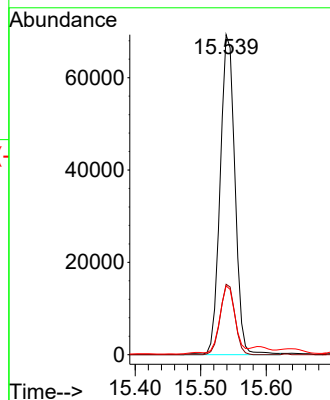
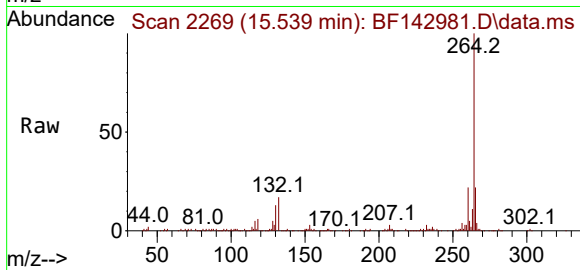
Tgt Ion:264 Resp: 108225

Ion Ratio Lower Upper

264 100

260 22.0 18.1 27.1

265 21.5 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.129 ng

RT: 17.045 min Scan# 2525

Delta R.T. -0.018 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

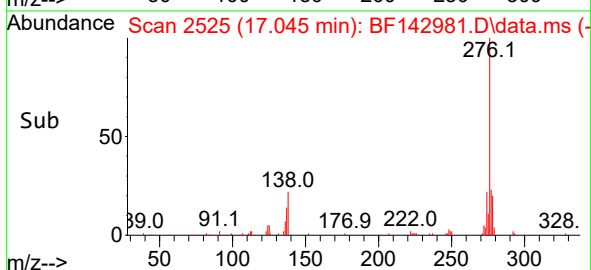
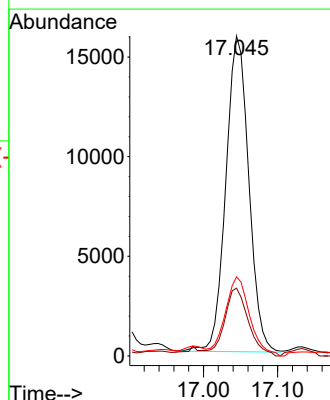
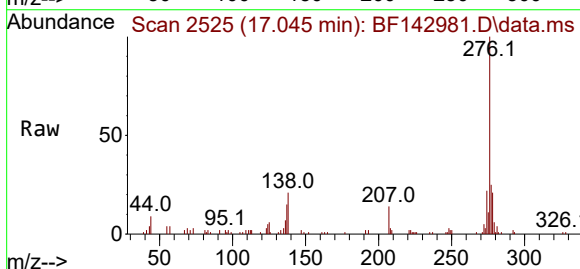
Tgt Ion:276 Resp: 34035

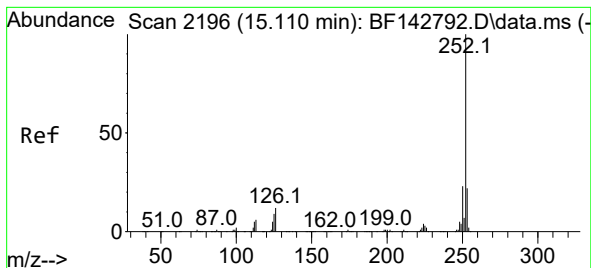
Ion Ratio Lower Upper

276 100

138 22.4 20.2 30.4

277 26.9 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 33.738 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

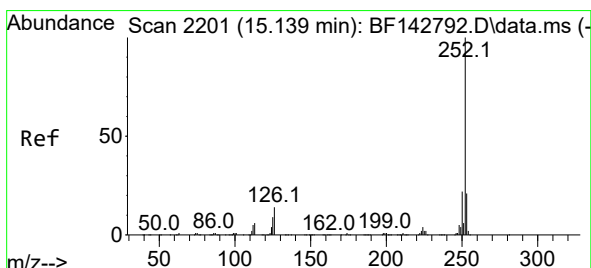
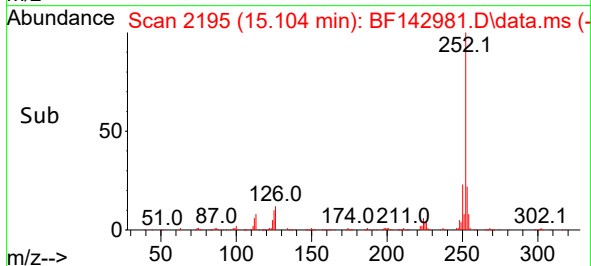
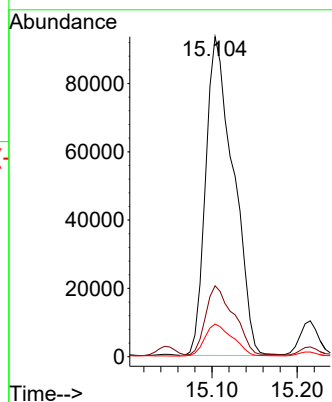
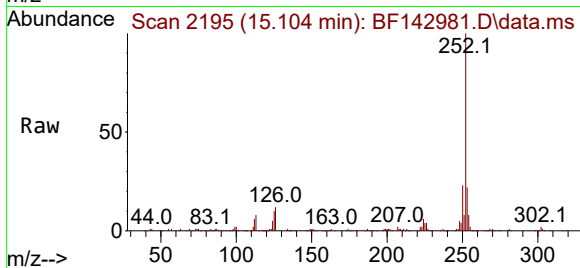
Tgt Ion:252 Resp: 211282

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.2 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 36.062 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.035 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

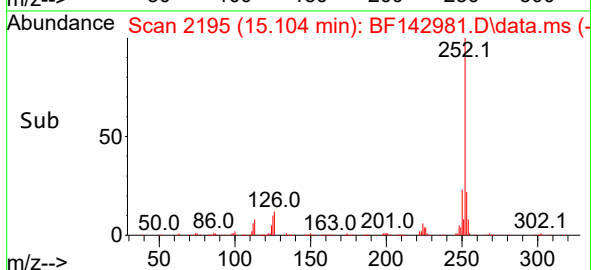
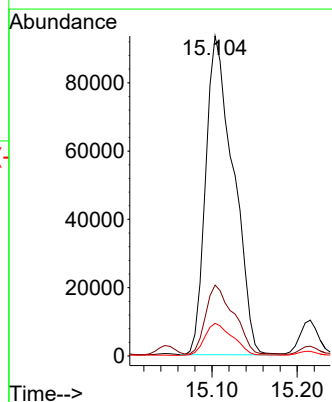
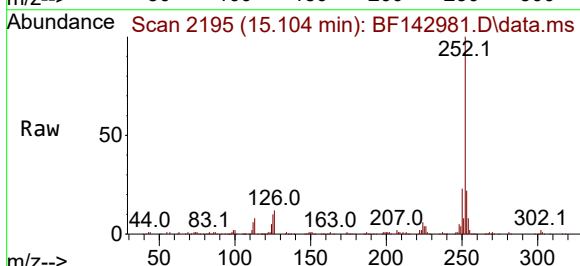
Tgt Ion:252 Resp: 211282

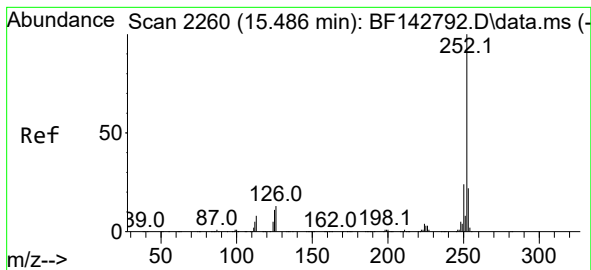
Ion Ratio Lower Upper

252 100

253 22.1 17.2 25.8

125 10.2 7.4 11.2





#90

Benzo(a)pyrene

Concen: 12.271 ng

RT: 15.480 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

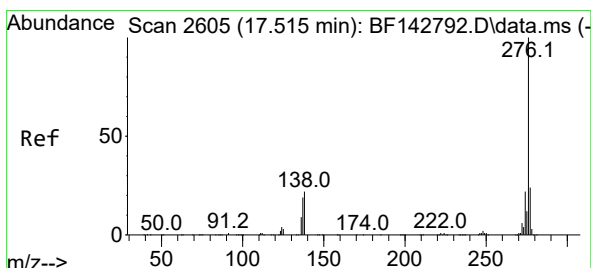
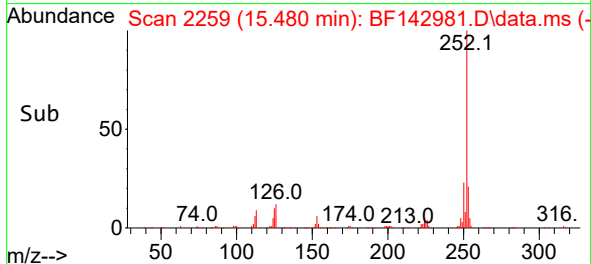
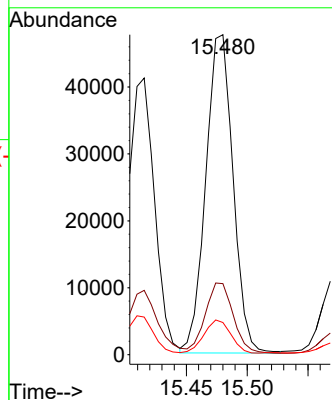
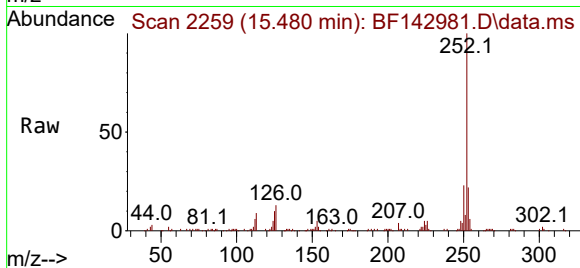
Tgt Ion:252 Resp: 74236

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 10.0 8.6 12.8



#92

Benzo(g,h,i)perylene

Concen: 4.607 ng

RT: 17.503 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BF142981.D

Acq: 02 Jul 2025 20:22

Tgt Ion:276 Resp: 30772

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 19.7 17.6 26.4

