

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037013.D
 Acq On : 14 May 2025 14:46
 Operator : RC/JU
 Sample : Q1872-13
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOIL

Quant Time: May 14 15:18:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

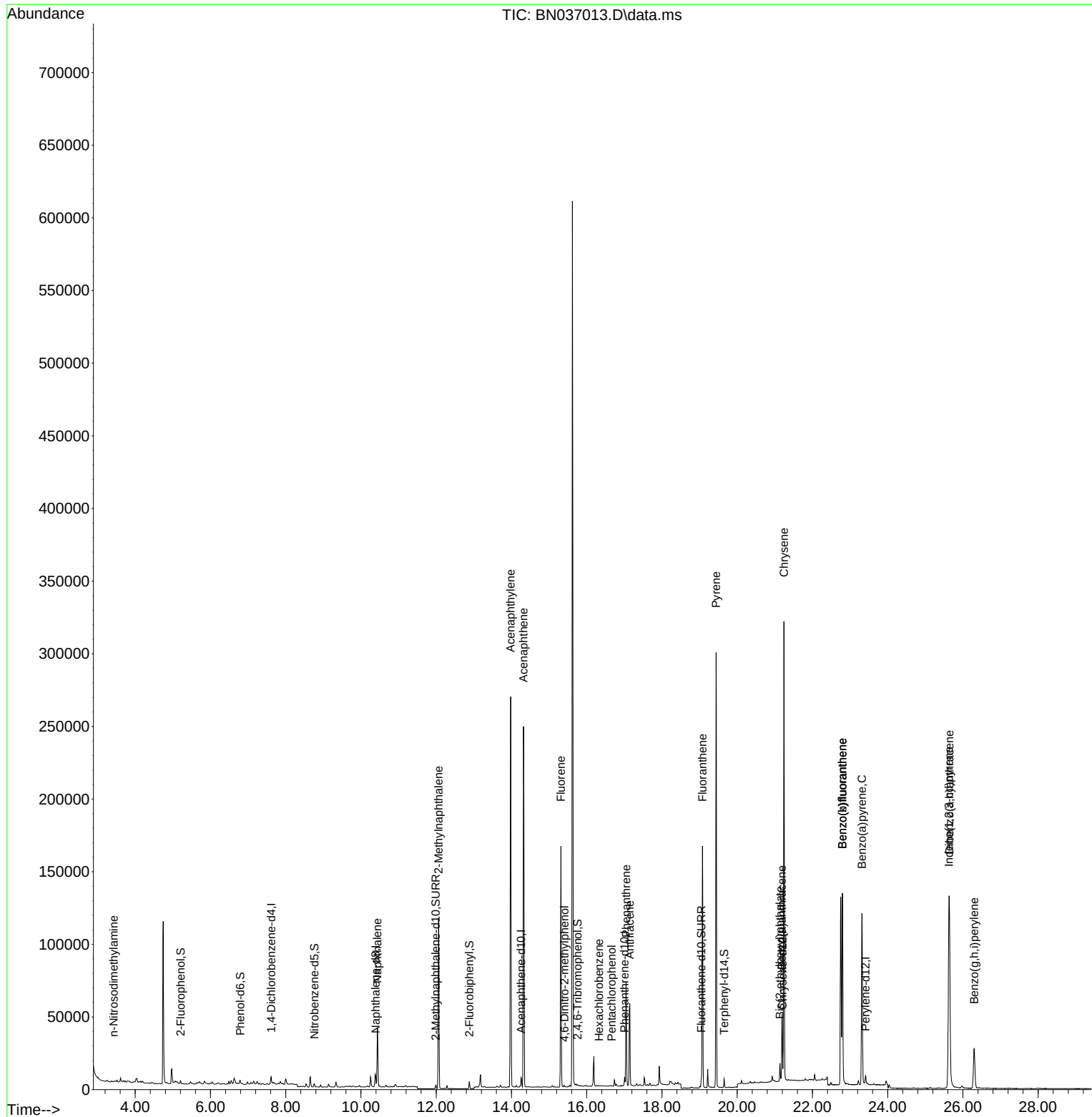
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2096	0.400	ng	0.00
7) Naphthalene-d8	10.393	136	6097	0.400	ng	#-0.01
13) Acenaphthene-d10	14.256	164	3702	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	7619	0.400	ng	# 0.00
29) Chrysene-d12	21.206	240	7847	0.400	ng	0.00
35) Perylene-d12	23.412	264	7344	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1363	0.248	ng	0.00
5) Phenol-d6	6.788	99	1874	0.273	ng	0.00
8) Nitrobenzene-d5	8.760	82	1682	0.253	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2460	0.287	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	409	0.252	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4150	0.245	ng	-0.01
27) Fluoranthene-d10	19.049	212	7139	0.342	ng	0.00
31) Terphenyl-d14	19.653	244	5177	0.308	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.429	42	118	0.021	ng	# 47
9) Naphthalene	10.436	128	49280	2.735	ng	97
12) 2-Methylnaphthalene	12.062	142	76389	6.592	ng	99
16) Acenaphthylene	13.978	152	262125	14.547	ng	100
17) Acenaphthene	14.320	154	115342	9.795	ng	98
18) Fluorene	15.314	166	88886	5.755	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	11	0.031	ng	# 1
22) Hexachlorobenzene	16.326	284	107	0.021	ng	# 60
24) Pentachlorophenol	16.661	266	66	0.023	ng	92
25) Phenanthrene	17.046	178	68599	2.755	ng	100
26) Anthracene	17.145	178	65623	2.896	ng	100
28) Fluoranthene	19.077	202	142969	4.807	ng	99
30) Pyrene	19.440	202	245073	7.301	ng	100
32) Benzo(a)anthracene	21.188	228	38038	1.287	ng	99
33) Chrysene	21.242	228	233087	7.458	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	10564	0.581	ng	99
36) Indeno(1,2,3-cd)pyrene	25.625	276	111106	3.704	ng	# 88
37) Benzo(b)fluoranthene	22.795	252	147983	4.858	ng	93
38) Benzo(k)fluoranthene	22.795	252	147983	4.919	ng	92
39) Benzo(a)pyrene	23.316	252	151426	5.860	ng	# 81
40) Dibenzo(a,h)anthracene	25.637	278	155978	6.676	ng	# 92
41) Benzo(g,h,i)perylene	26.298	276	51432	2.026	ng	98

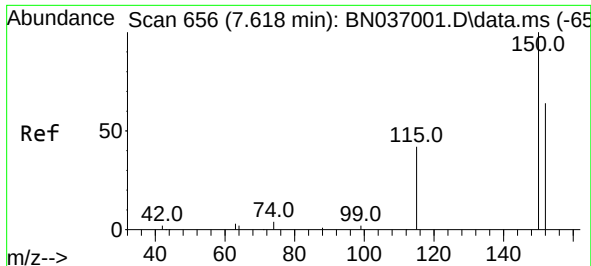
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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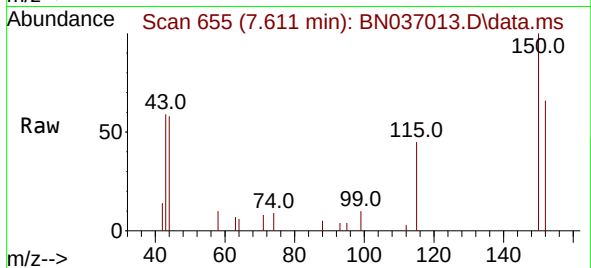
Quant Time: May 14 15:18:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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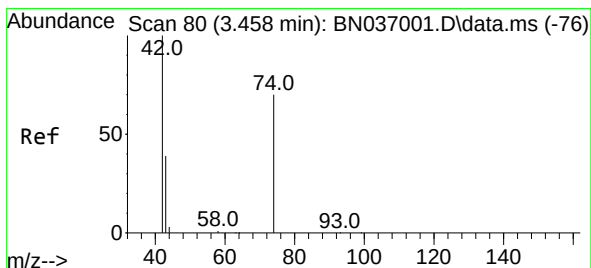
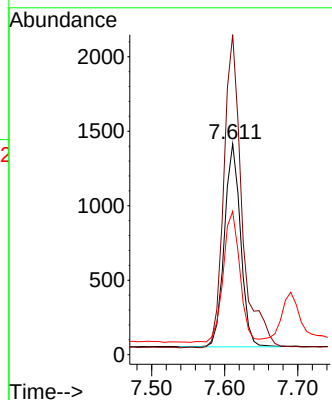
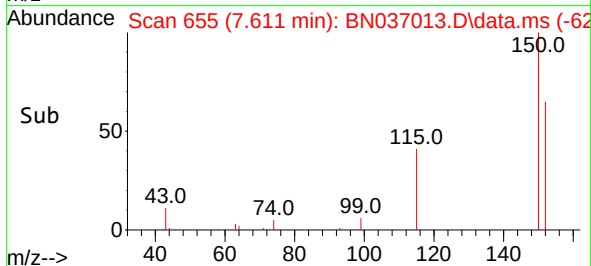


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

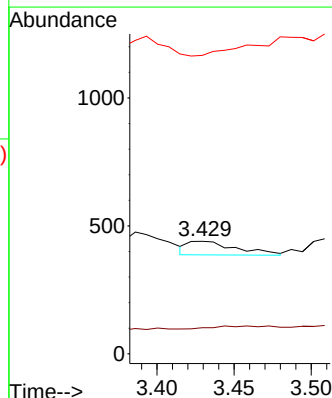
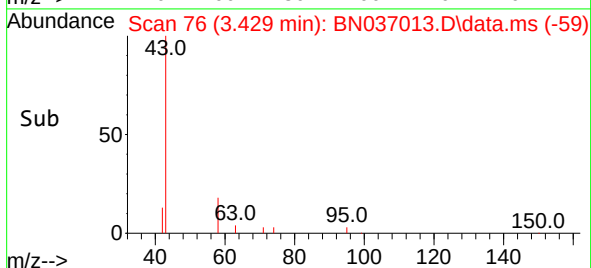
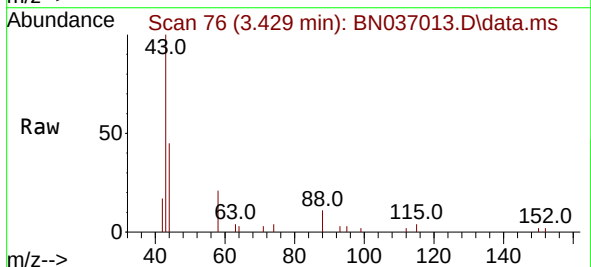


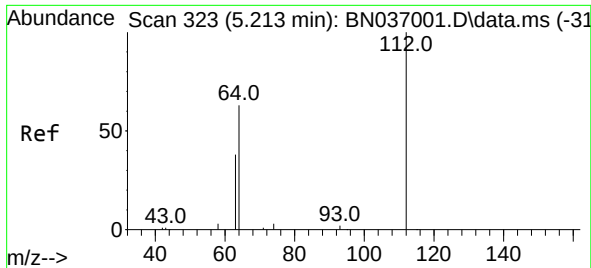
Tgt Ion:152 Resp: 2096
Ion Ratio Lower Upper
152 100
150 151.7 123.9 185.9
115 67.9 55.8 83.8



#3
n-Nitrosodimethylamine
Concen: 0.021 ng
RT: 3.429 min Scan# 76
Delta R.T. -0.029 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion: 42 Resp: 118
Ion Ratio Lower Upper
42 100
74 26.3 59.8 89.6#
44 0.0 11.9 17.9#

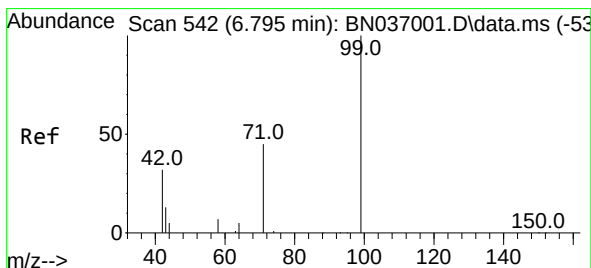
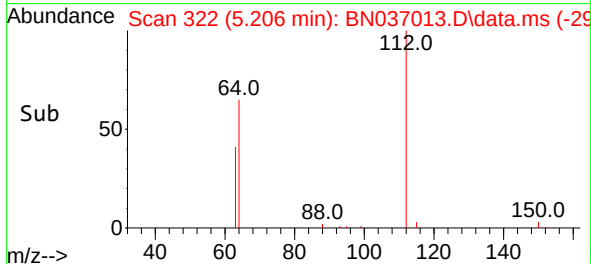
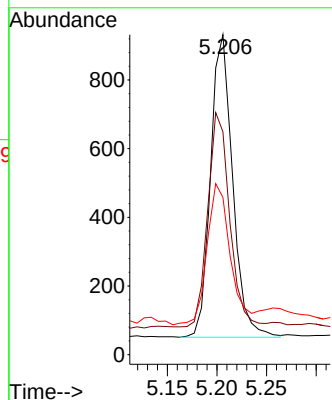
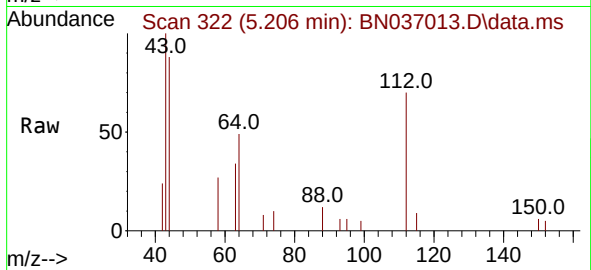




#4
2-Fluorophenol
Concen: 0.248 ng
RT: 5.206 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

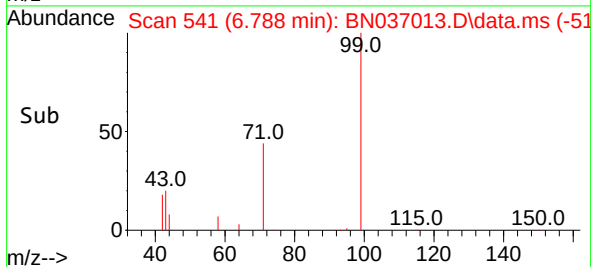
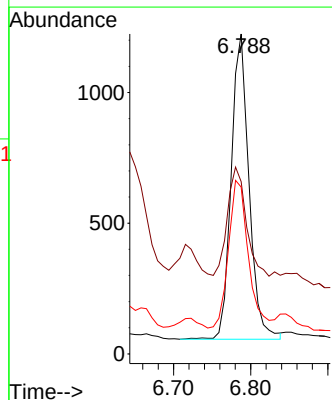
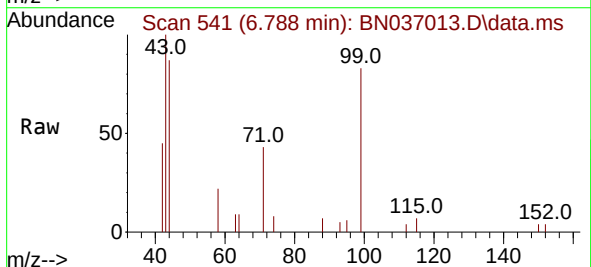
Instrument :
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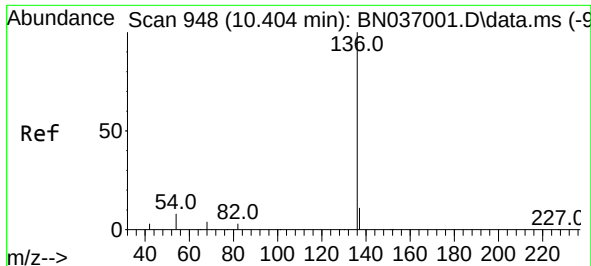
Tgt Ion:112 Resp: 1363
Ion Ratio Lower Upper
112 100
64 70.0 55.7 83.5
63 48.9 34.6 51.8



#5
Phenol-d6
Concen: 0.273 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion: 99 Resp: 1874
Ion Ratio Lower Upper
99 100
42 37.1 29.3 43.9
71 54.4 35.7 53.5#

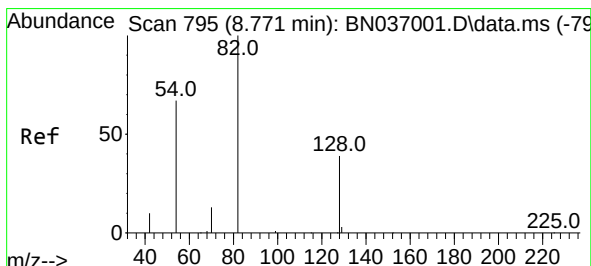
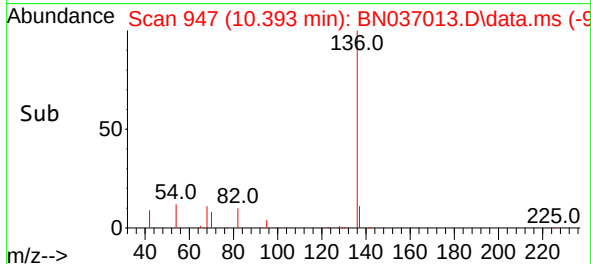
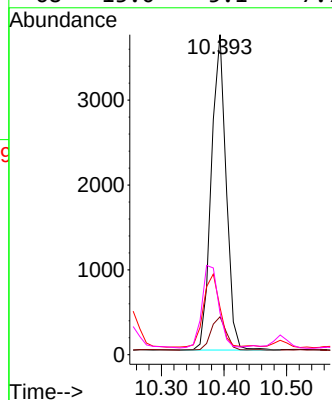
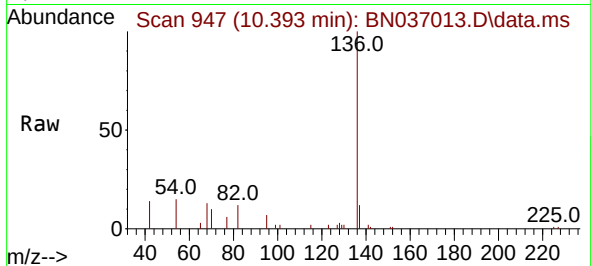




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.393 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

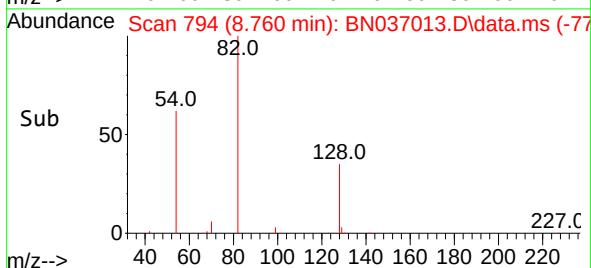
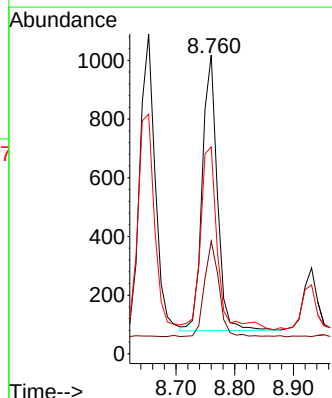
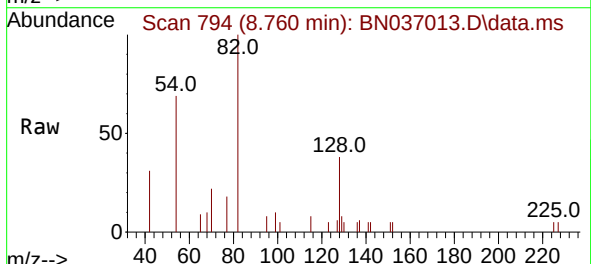
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

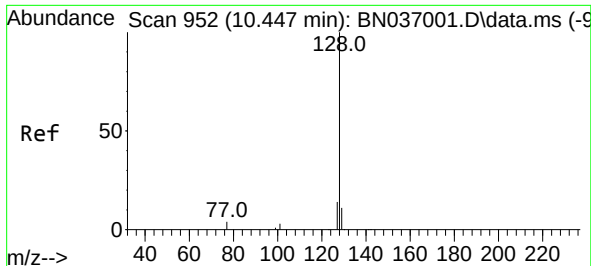
Tgt Ion:	136	Resp:	6097
Ion Ratio	Lower	Upper	
136	100		
137	11.9	10.4	15.6
54	14.7	8.5	12.7#
68	13.0	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.253 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:	82	Resp:	1682
Ion Ratio	Lower	Upper	
82	100		
128	37.7	34.0	51.0
54	69.3	55.0	82.4

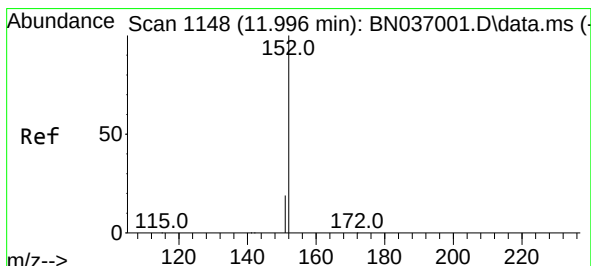
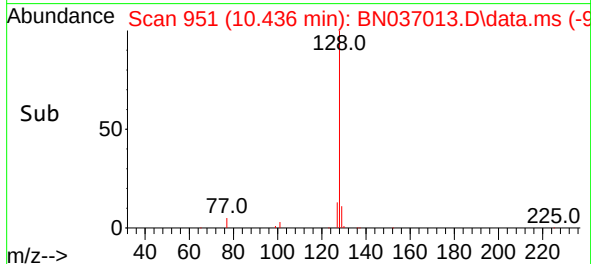
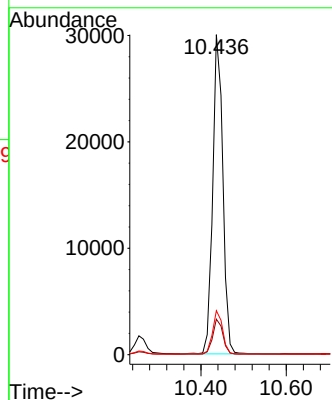
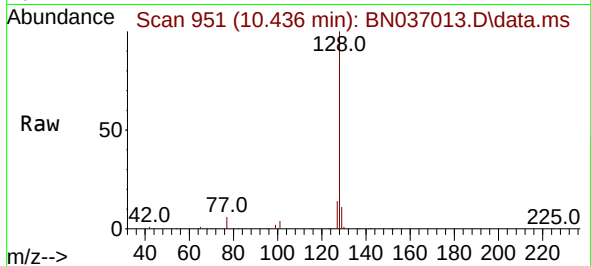




#9
Naphthalene
Concen: 2.735 ng
RT: 10.436 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

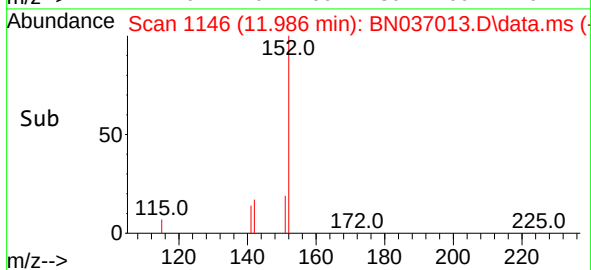
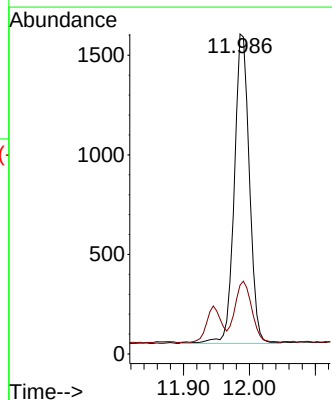
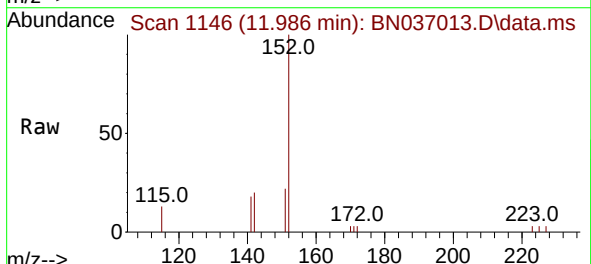
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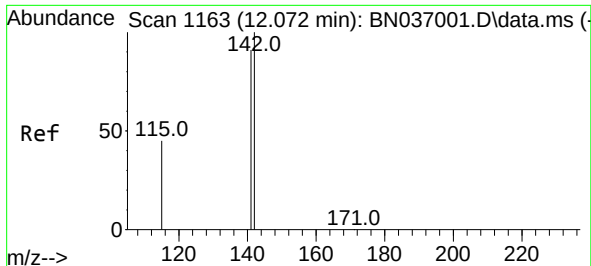
Tgt Ion:128 Resp: 49280
Ion Ratio Lower Upper
128 100
129 11.1 9.7 14.5
127 13.7 12.4 18.6



#11
2-Methylnaphthalene-d10
Concen: 0.287 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:152 Resp: 2460
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3

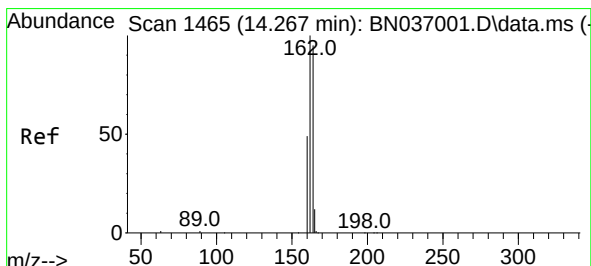
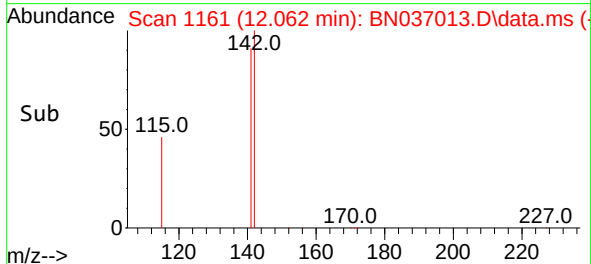
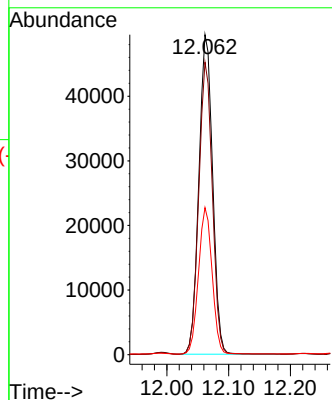
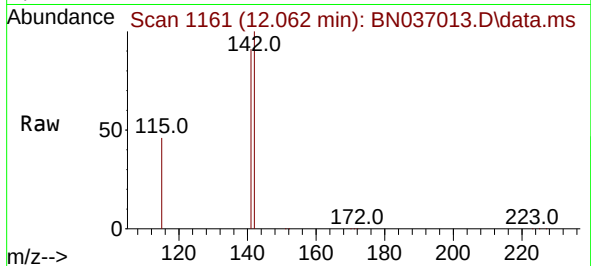




#12
2-Methylnaphthalene
Concen: 6.592 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

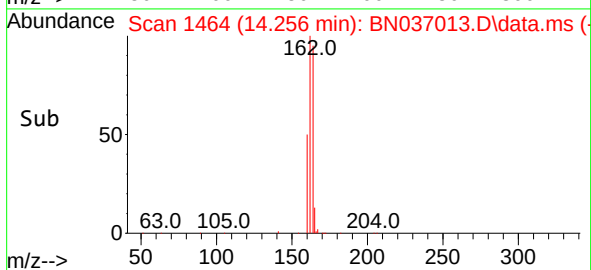
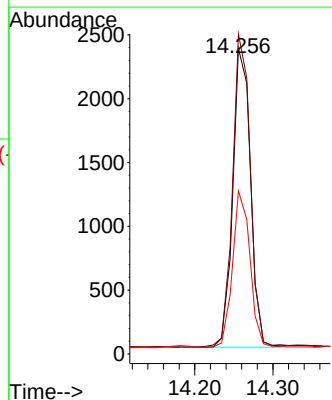
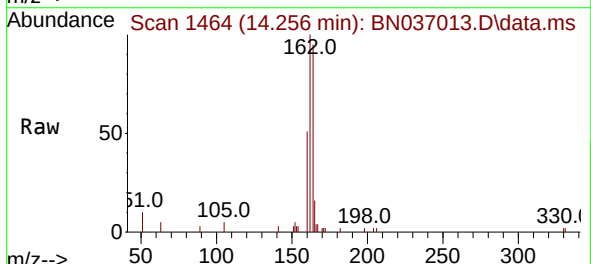
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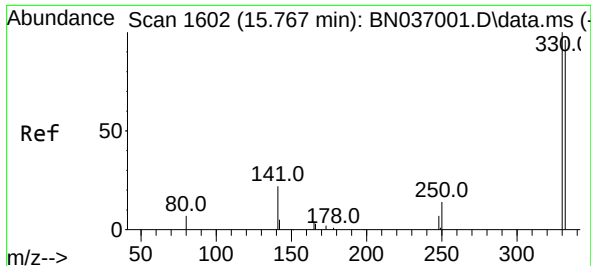
Tgt Ion:142 Resp: 76389
Ion Ratio Lower Upper
142 100
141 91.4 73.3 109.9
115 45.9 38.4 57.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

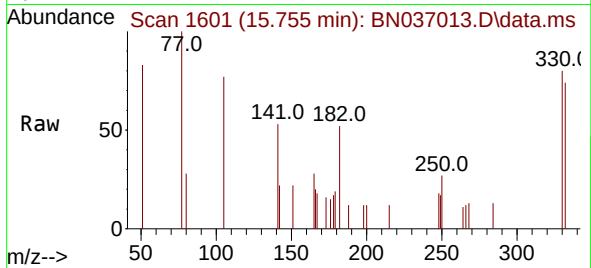
Tgt Ion:164 Resp: 3702
Ion Ratio Lower Upper
164 100
162 104.7 84.2 126.4
160 53.3 42.6 63.8



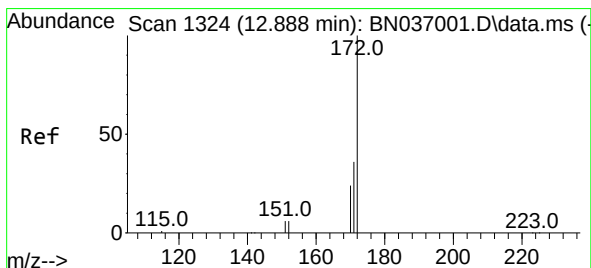
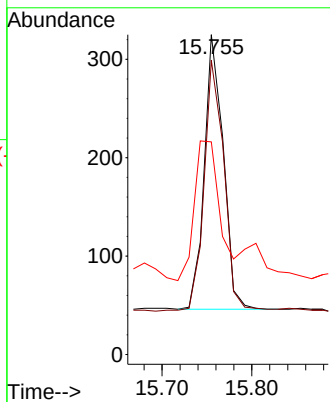
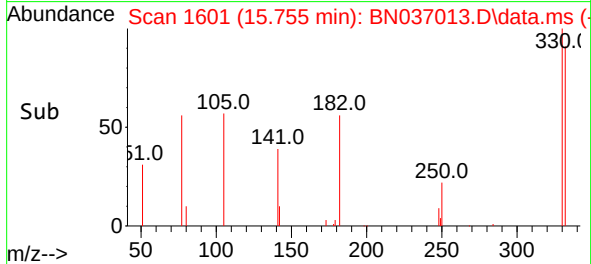


#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Instrument :
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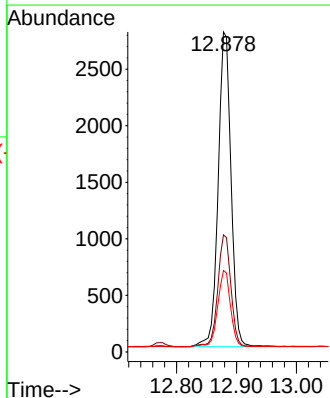
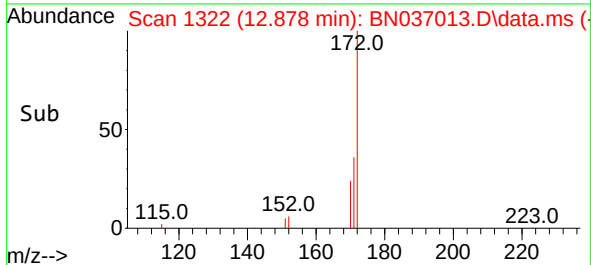
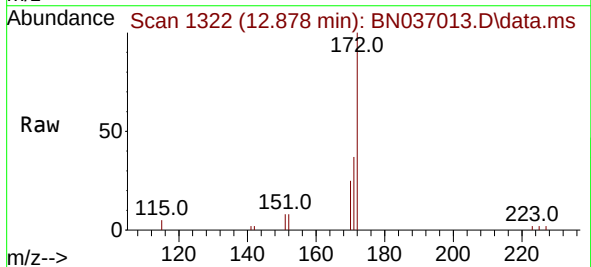


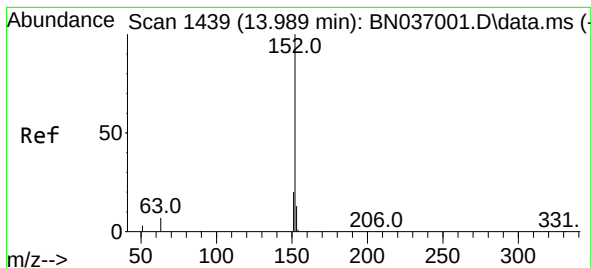
Tgt Ion:330 Resp: 409
Ion Ratio Lower Upper
330 100
332 96.3 73.8 110.8
141 87.5 43.9 65.9#



#15
2-Fluorobiphenyl
Concen: 0.245 ng
RT: 12.878 min Scan# 1322
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:172 Resp: 4150
Ion Ratio Lower Upper
172 100
171 36.6 29.2 43.8
170 25.5 20.5 30.7





#16

Acenaphthylene

Concen: 14.547 ng

RT: 13.978 min Scan# 1438

Delta R.T. -0.011 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL

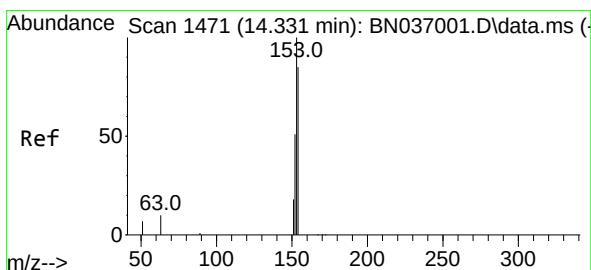
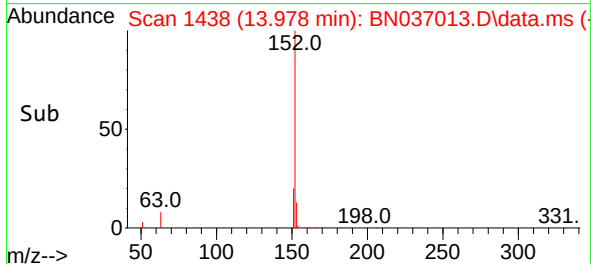
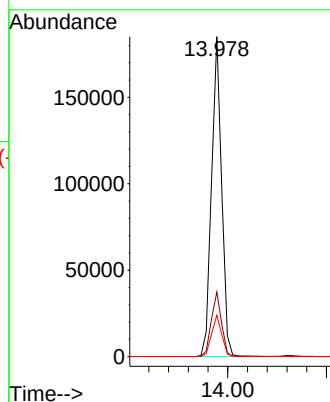
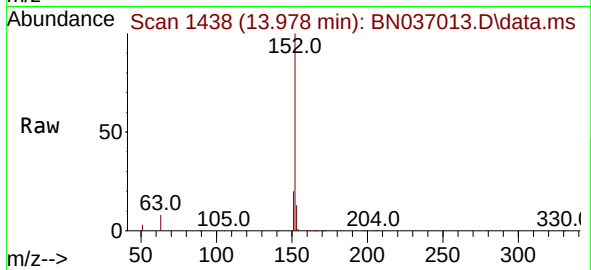
Tgt Ion:152 Resp: 262125

Ion Ratio Lower Upper

152 100

151 20.3 16.1 24.1

153 13.0 10.5 15.7



#17

Acenaphthene

Concen: 9.795 ng

RT: 14.320 min Scan# 1470

Delta R.T. -0.011 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

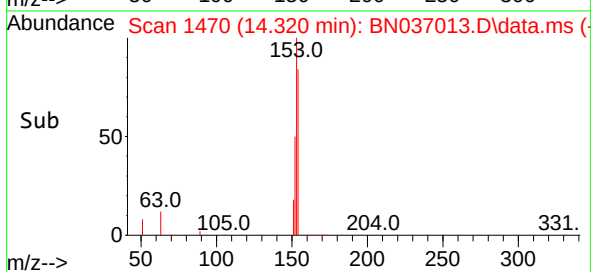
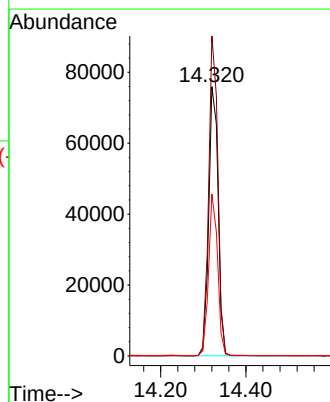
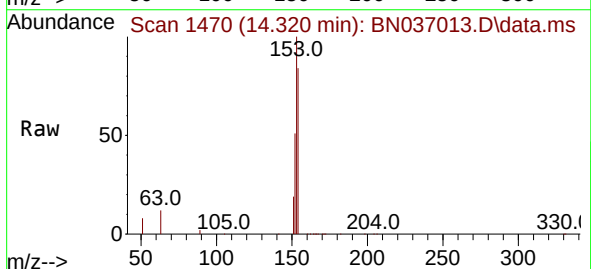
Tgt Ion:154 Resp: 115342

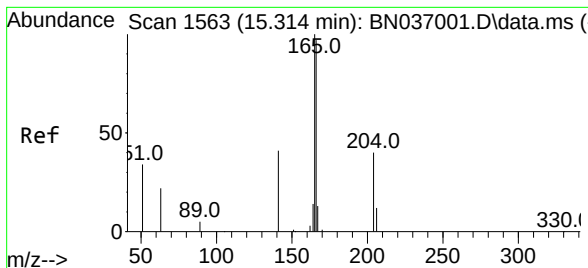
Ion Ratio Lower Upper

154 100

153 116.6 94.2 141.4

152 58.1 49.4 74.0





#18

Fluorene

Concen: 5.755 ng

RT: 15.314 min Scan# 1563

Delta R.T. -0.000 min

Lab File: BN037013.D

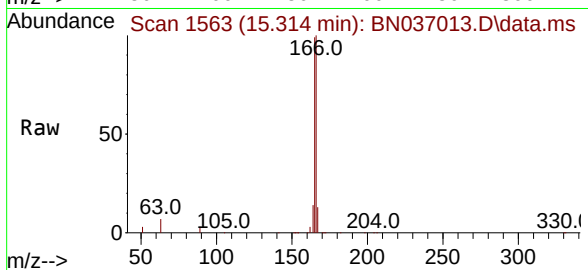
Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL



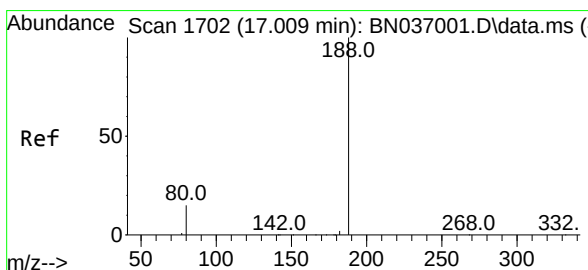
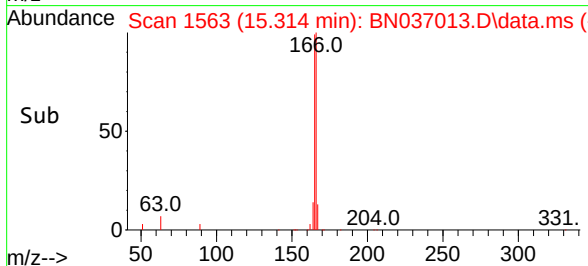
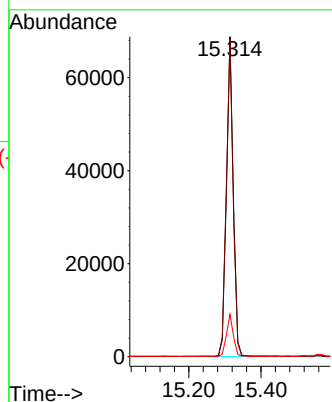
Tgt Ion:166 Resp: 88886

Ion Ratio Lower Upper

166 100

165 99.2 80.6 120.8

167 13.2 10.6 16.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

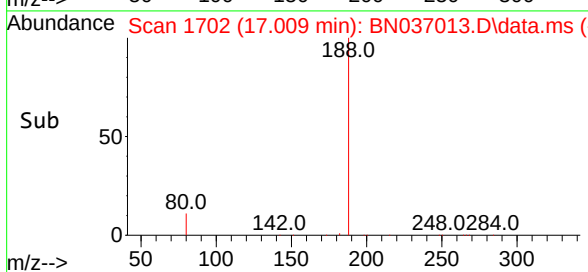
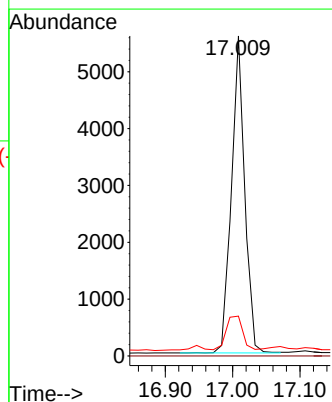
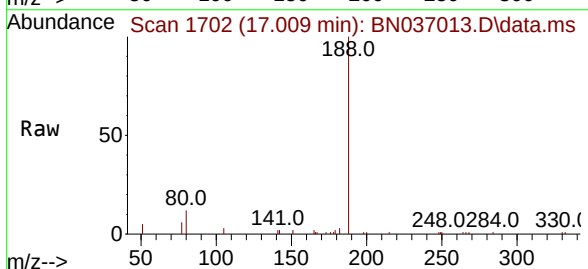
Tgt Ion:188 Resp: 7619

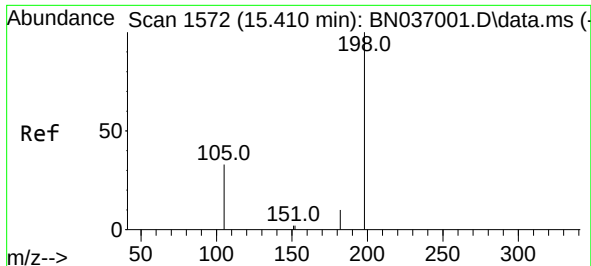
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 13.4 20.0#





#20

4,6-Dinitro-2-methylphenol

Concen: 0.031 ng

RT: 15.410 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL

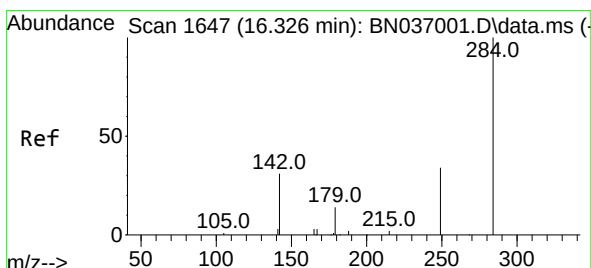
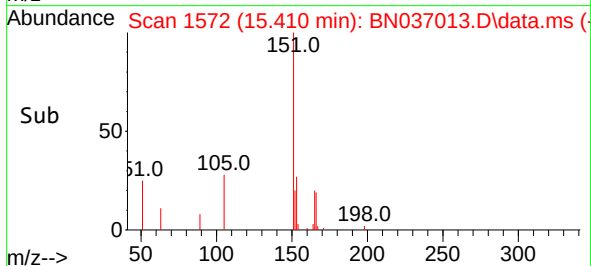
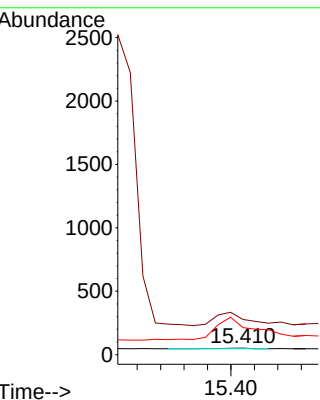
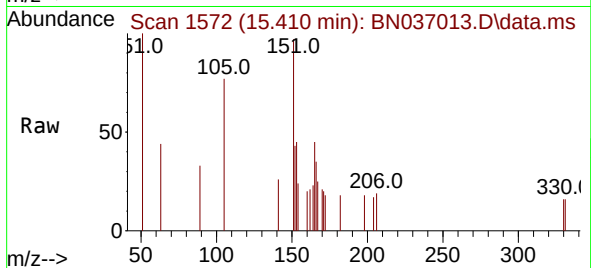
Tgt Ion:198 Resp: 11

Ion Ratio Lower Upper

198 100

51 543.1 87.8 131.6#

105 417.6 44.2 66.4#



#22

Hexachlorobenzene

Concen: 0.021 ng

RT: 16.326 min Scan# 1647

Delta R.T. -0.000 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

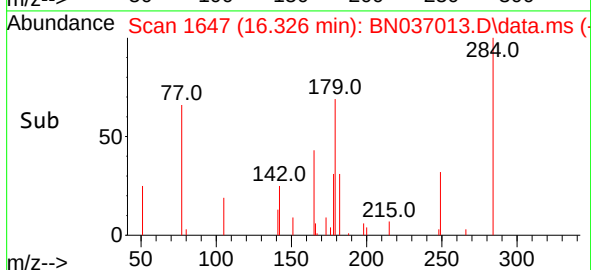
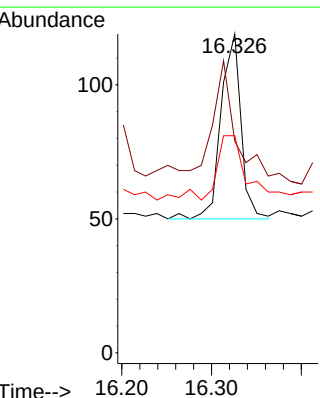
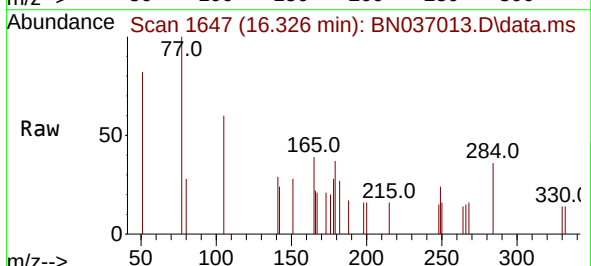
Tgt Ion:284 Resp: 107

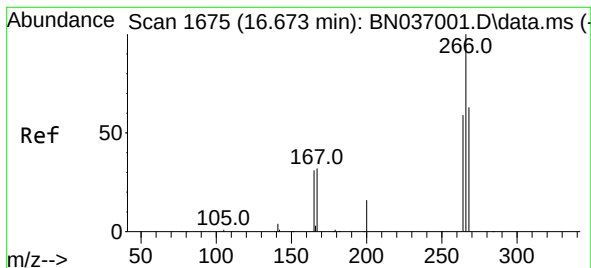
Ion Ratio Lower Upper

284 100

142 82.2 41.2 61.8#

249 56.1 28.7 43.1#





#24

Pentachlorophenol

Concen: 0.023 ng

RT: 16.661 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL

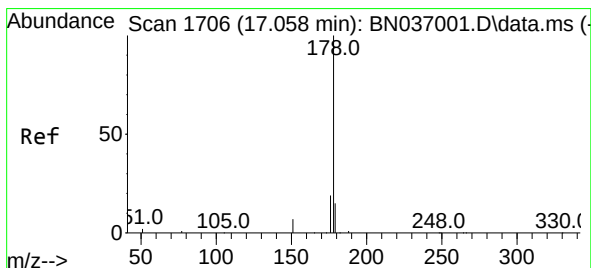
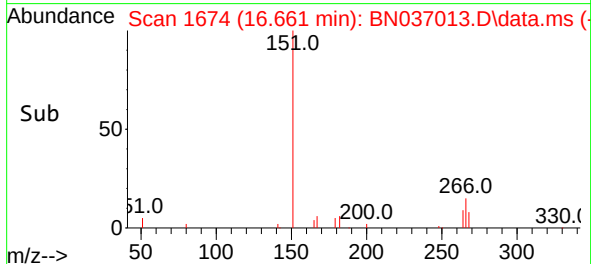
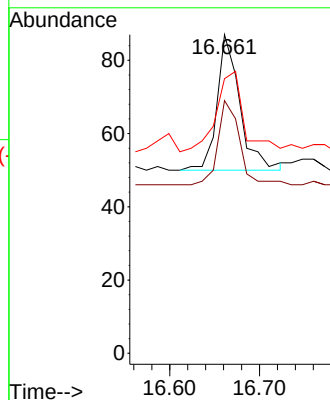
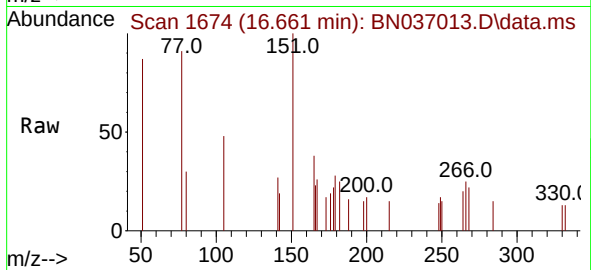
Tgt Ion:266 Resp: 66

Ion Ratio Lower Upper

266 100

264 59.1 47.9 71.9

268 74.2 50.0 75.0



#25

Phenanthrene

Concen: 2.755 ng

RT: 17.046 min Scan# 1705

Delta R.T. -0.012 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

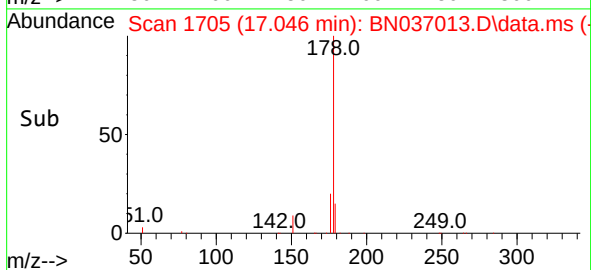
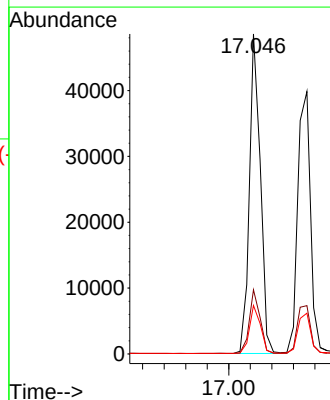
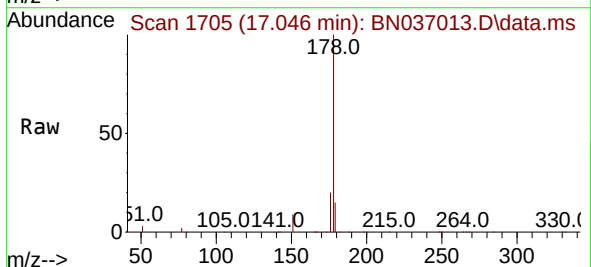
Tgt Ion:178 Resp: 68599

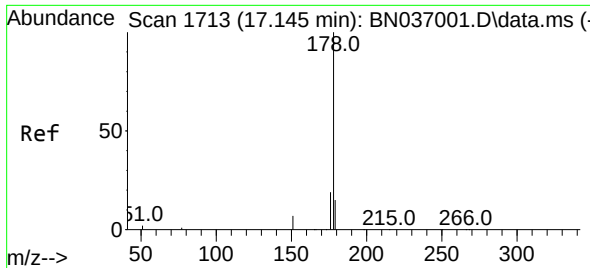
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.2 12.2 18.2

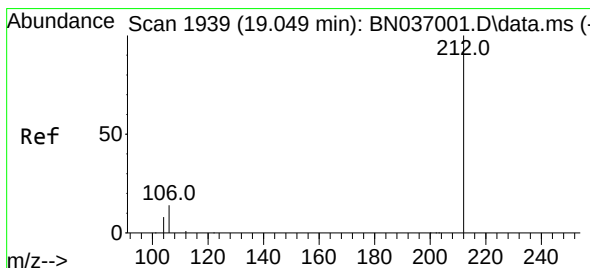
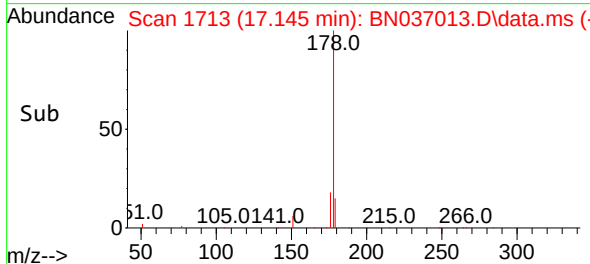
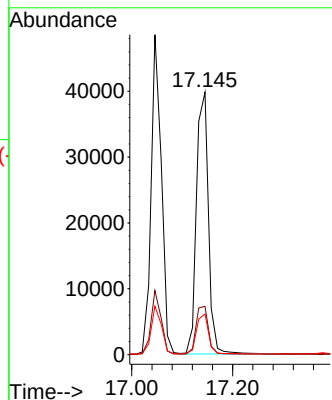
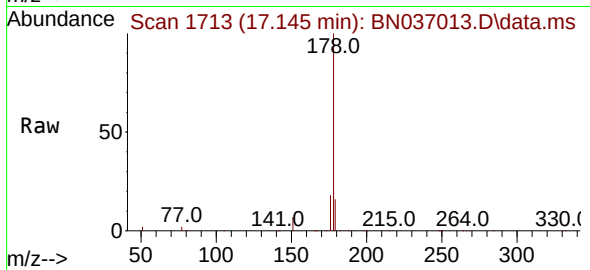




#26
 Anthracene
 Concen: 2.896 ng
 RT: 17.145 min Scan# 1713
 Delta R.T. -0.000 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

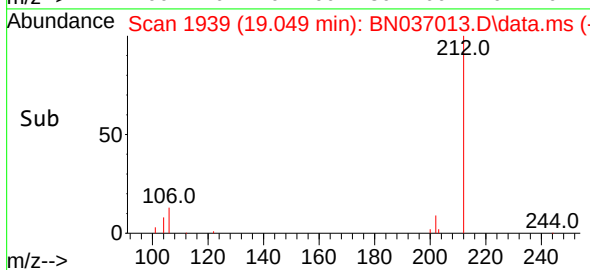
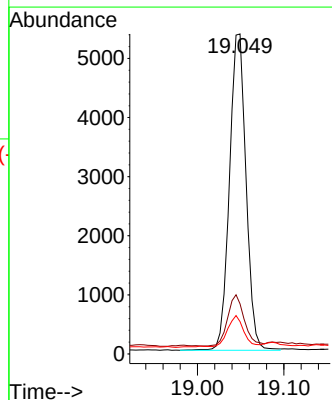
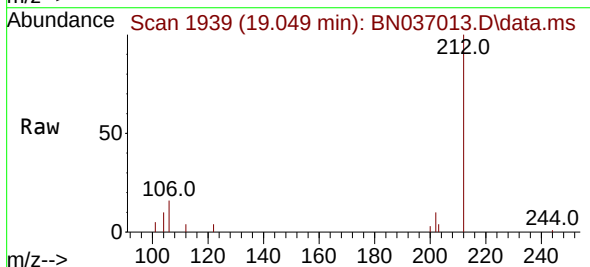
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOIL

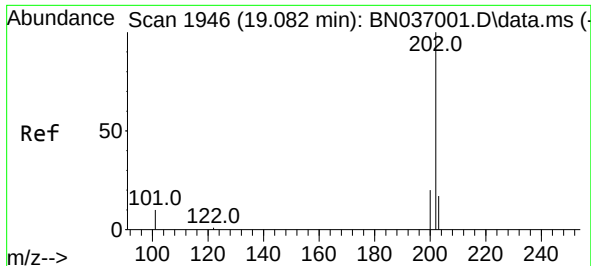
Tgt Ion:178 Resp: 65623
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.0 22.6
 179 15.3 12.3 18.5



#27
 Fluoranthene-d10
 Concen: 0.342 ng
 RT: 19.049 min Scan# 1939
 Delta R.T. -0.000 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

Tgt Ion:212 Resp: 7139
 Ion Ratio Lower Upper
 212 100
 106 16.3 11.3 16.9
 104 9.5 6.7 10.1

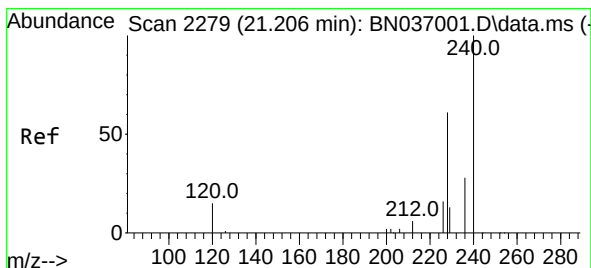
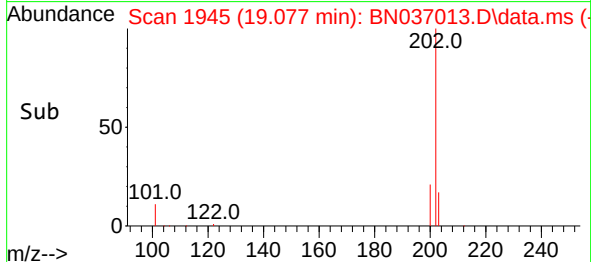
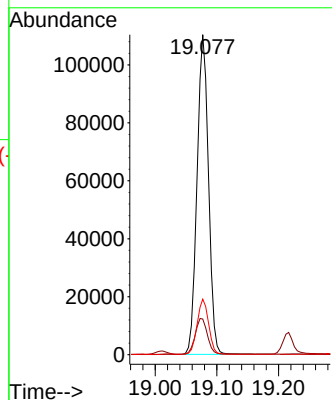
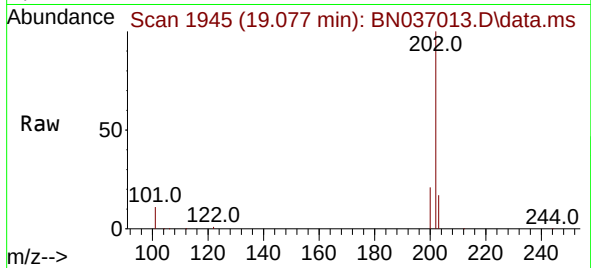




#28
Fluoranthene
Concen: 4.807 ng
RT: 19.077 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

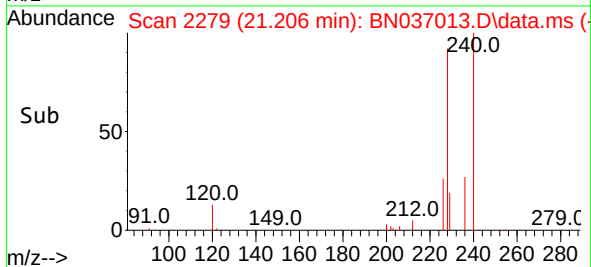
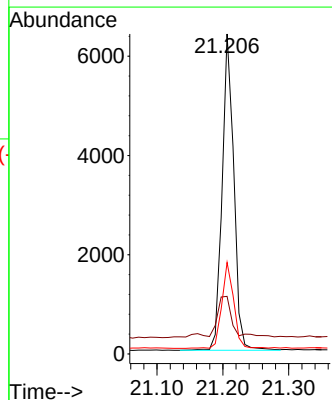
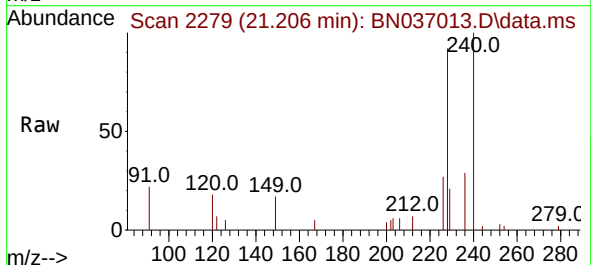
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

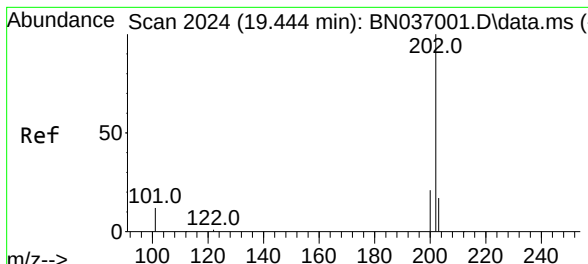
Tgt Ion:202 Resp: 142969
Ion Ratio Lower Upper
202 100
101 12.0 8.9 13.3
203 17.1 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:240 Resp: 7847
Ion Ratio Lower Upper
240 100
120 18.0 15.1 22.7
236 28.6 24.0 36.0



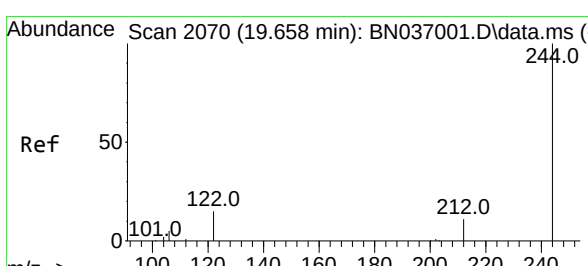
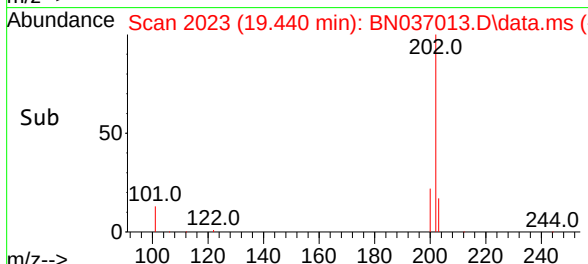
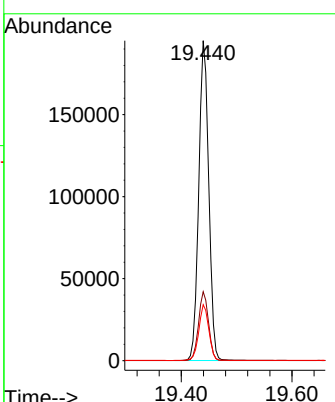
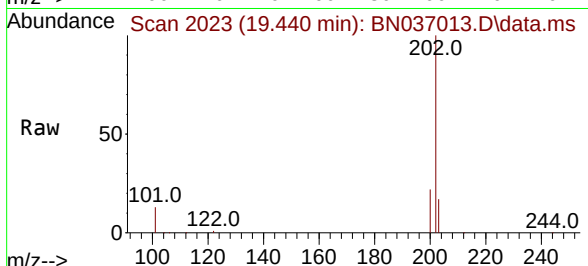


#30
 Pyrene
 Concen: 7.301 ng
 RT: 19.440 min Scan# 2069
 Delta R.T. -0.005 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOIL

Tgt Ion:202 Resp: 245073

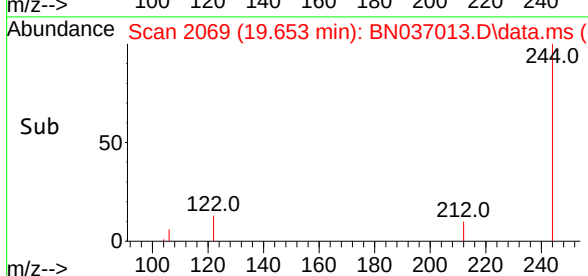
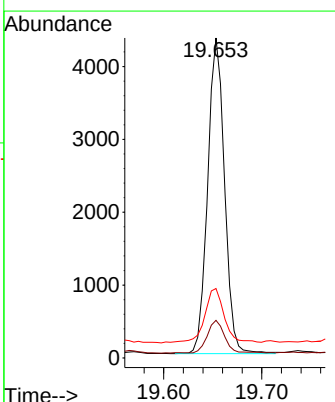
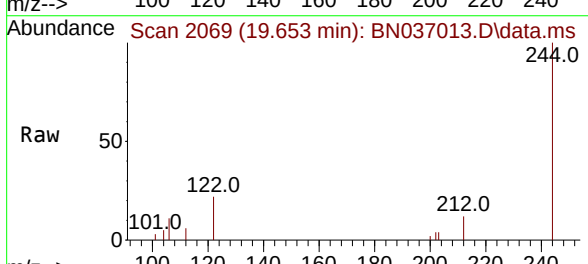
Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.5	14.2	21.4

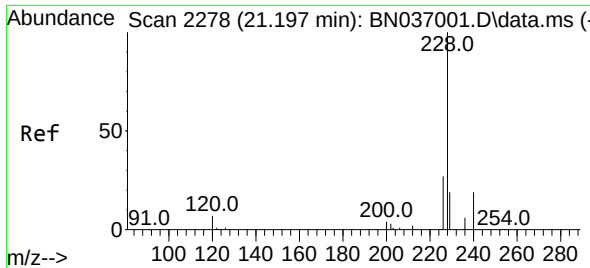


#31
 Terphenyl-d14
 Concen: 0.308 ng
 RT: 19.653 min Scan# 2069
 Delta R.T. -0.005 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

Tgt Ion:244 Resp: 5177

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.7	14.5
122	21.7	13.4	20.0

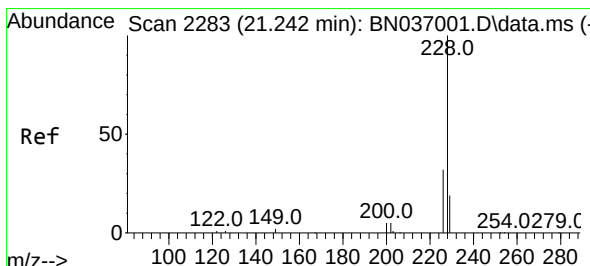
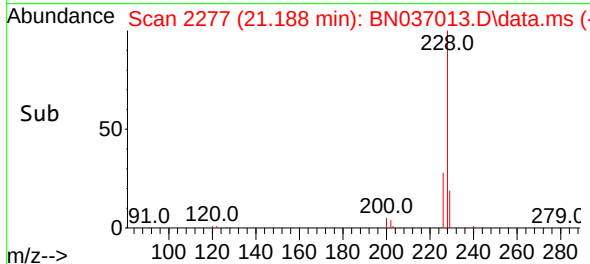
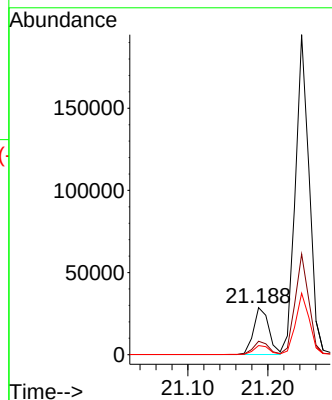
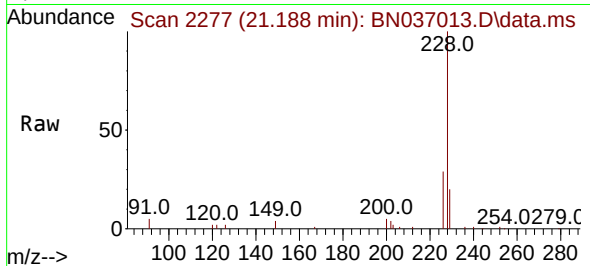




#32
Benzo(a)anthracene
Concen: 1.287 ng
RT: 21.188 min Scan# 21188
Delta R.T. -0.009 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

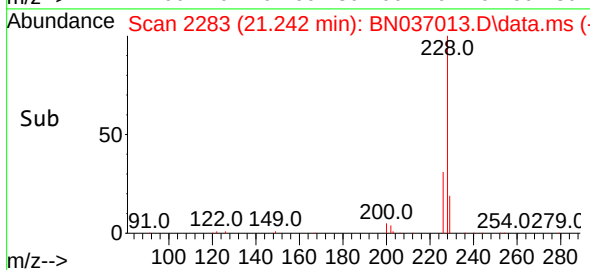
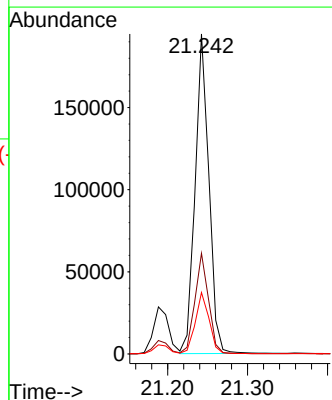
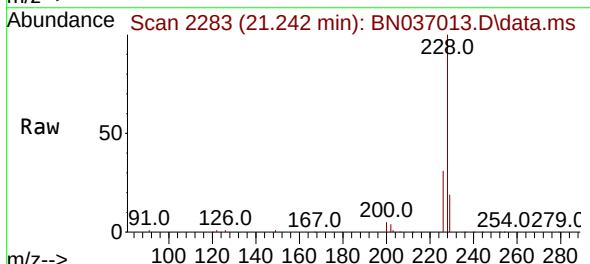
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

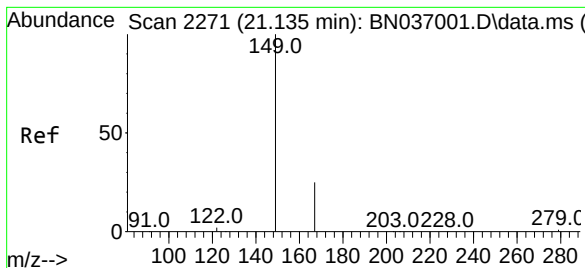
Tgt Ion:228 Resp: 38038
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 19.6 16.0 24.0



#33
Chrysene
Concen: 7.458 ng
RT: 21.242 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:228 Resp: 233087
Ion Ratio Lower Upper
228 100
226 31.4 26.3 39.5
229 19.2 16.2 24.2

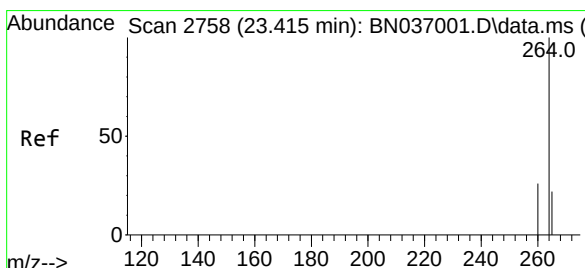
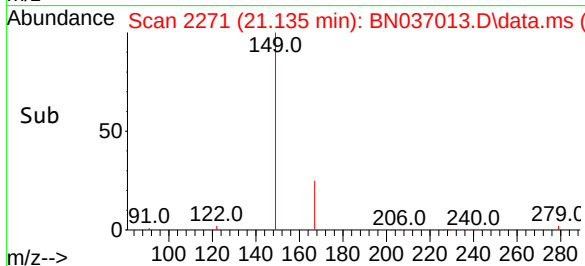
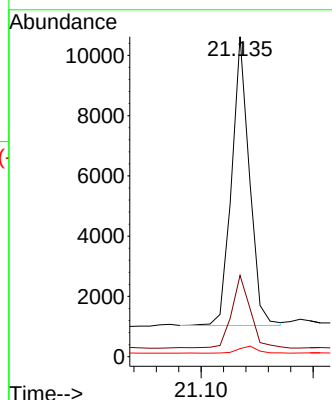
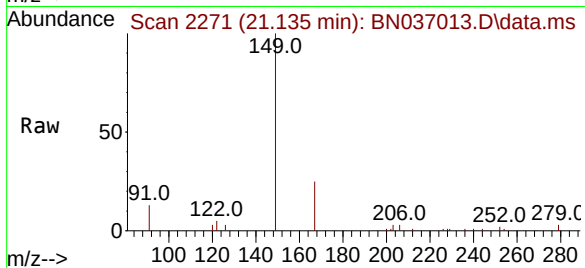




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.581 ng
 RT: 21.135 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

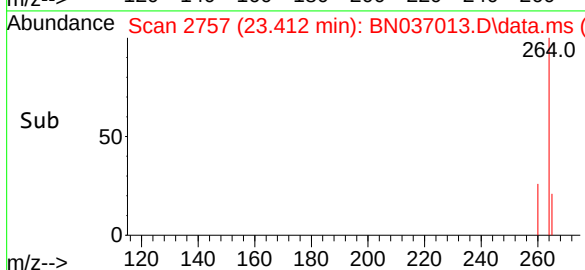
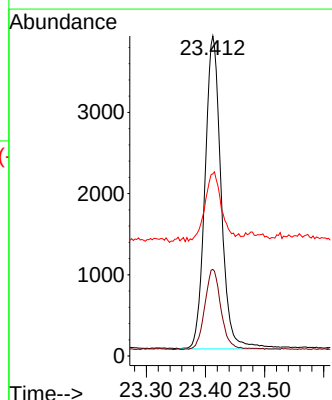
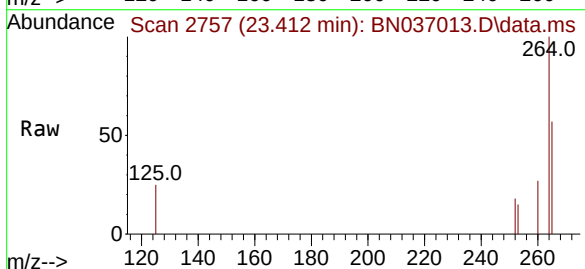
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOIL

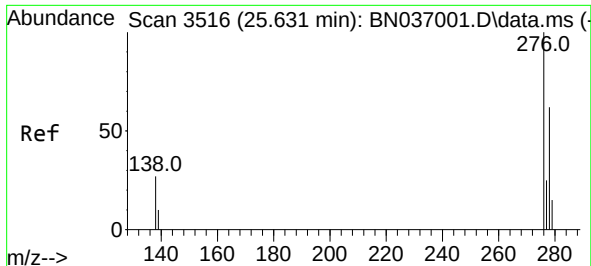
Tgt Ion:149 Resp: 10564
 Ion Ratio Lower Upper
 149 100
 167 26.2 20.6 30.8
 279 2.6 2.6 3.8



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.412 min Scan# 2757
 Delta R.T. -0.003 min
 Lab File: BN037013.D
 Acq: 14 May 2025 14:46

Tgt Ion:264 Resp: 7344
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.9 32.9
 265 56.9 51.6 77.4

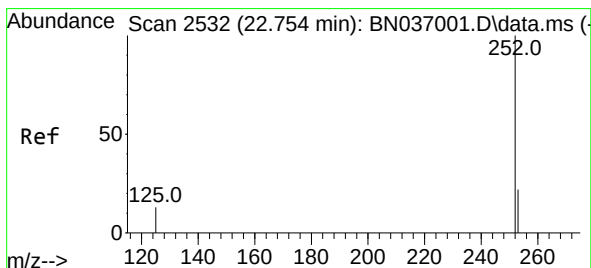
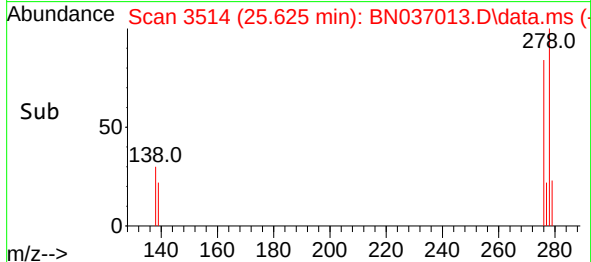
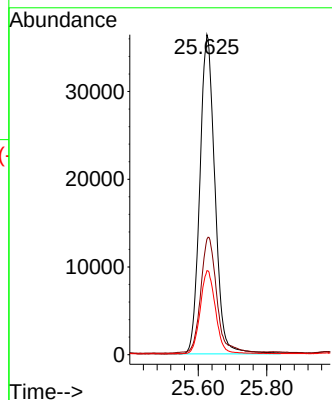
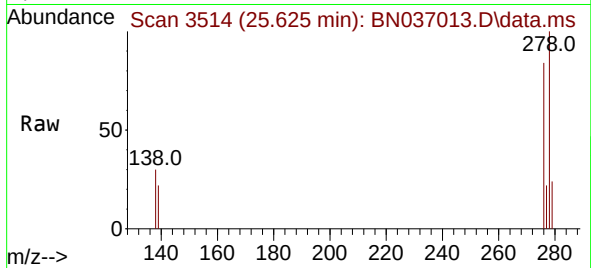




#36
Indeno(1,2,3-cd)pyrene
Concen: 3.704 ng
RT: 25.625 min Scan# 311
Delta R.T. -0.006 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

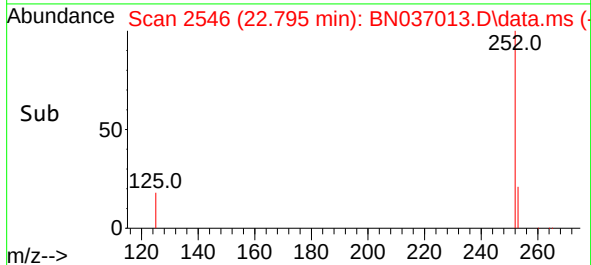
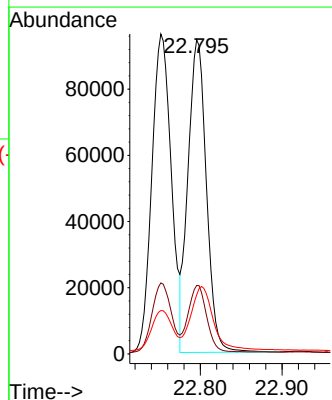
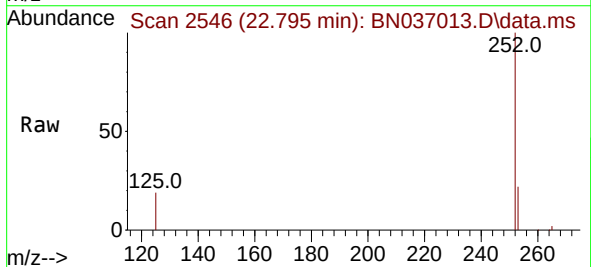
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

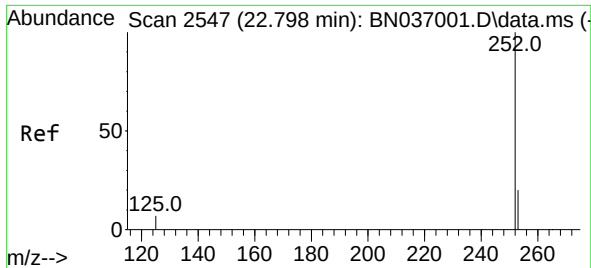
Tgt Ion:276 Resp: 111106
Ion Ratio Lower Upper
276 100
138 38.8 22.7 34.1#
277 26.2 20.0 30.0



#37
Benzo(b)fluoranthene
Concen: 4.858 ng
RT: 22.795 min Scan# 2546
Delta R.T. 0.041 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

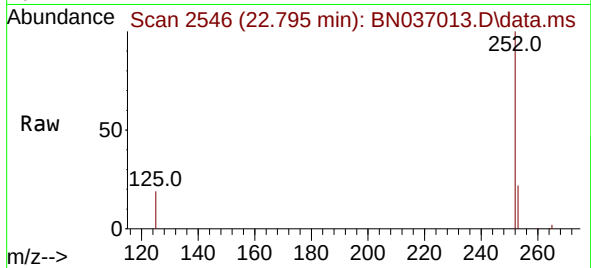
Tgt Ion:252 Resp: 147983
Ion Ratio Lower Upper
252 100
253 21.8 21.8 32.6
125 18.8 14.6 21.8



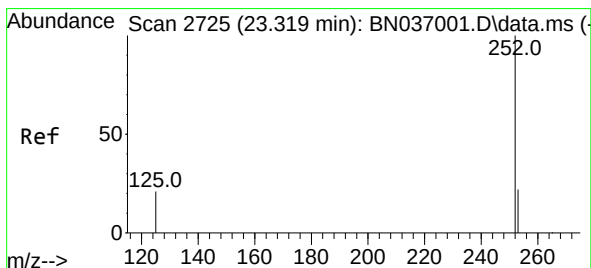
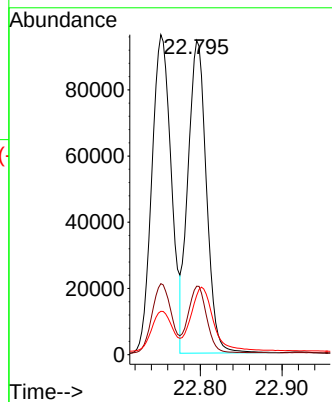
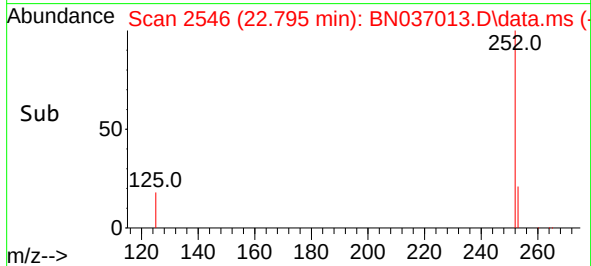


#38
Benzo(k)fluoranthene
Concen: 4.919 ng
RT: 22.795 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

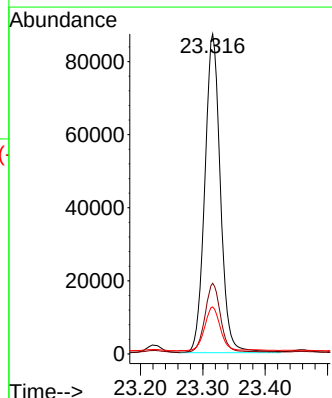
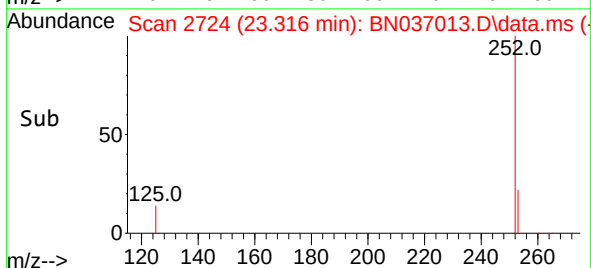
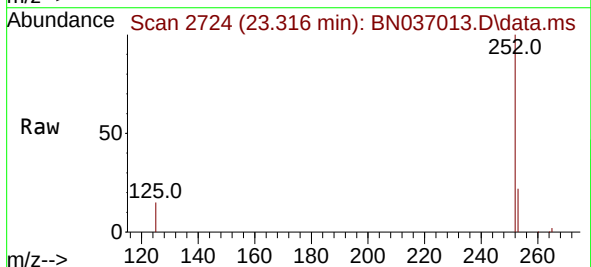


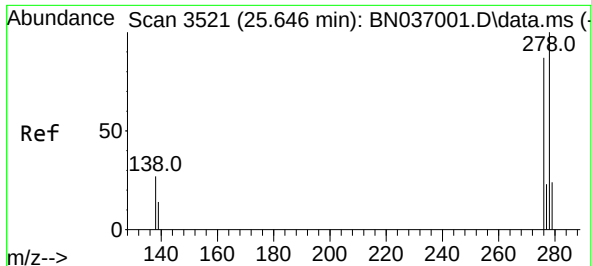
Tgt Ion:252 Resp: 147983
Ion Ratio Lower Upper
252 100
253 21.8 21.4 32.2
125 18.8 13.0 19.4



#39
Benzo(a)pyrene
Concen: 5.860 ng
RT: 23.316 min Scan# 2724
Delta R.T. -0.003 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:252 Resp: 151426
Ion Ratio Lower Upper
252 100
253 22.1 23.8 35.6#
125 14.7 21.8 32.6#

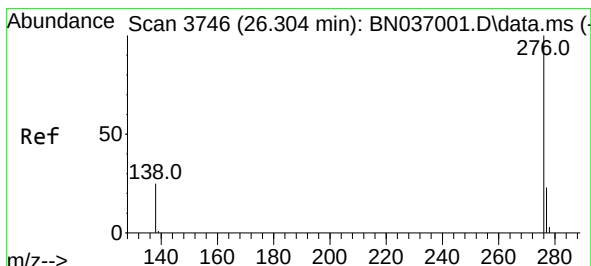
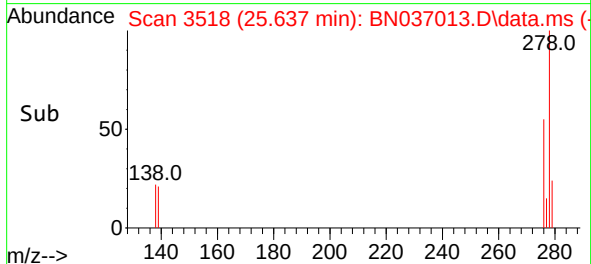
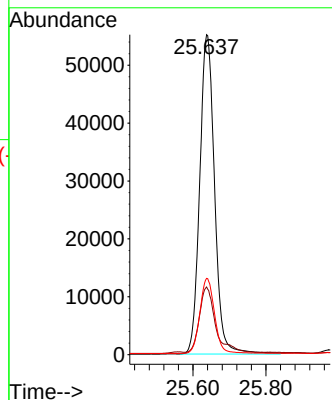
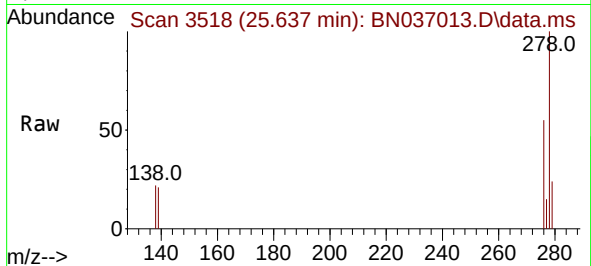




#40
Dibenzo(a,h)anthracene
Concen: 6.676 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

Tgt Ion:278 Resp: 155978
Ion Ratio Lower Upper
278 100
139 21.1 17.4 26.0
279 23.9 24.6 37.0#



#41
Benzo(g,h,i)perylene
Concen: 2.026 ng
RT: 26.298 min Scan# 3744
Delta R.T. -0.006 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:276 Resp: 51432
Ion Ratio Lower Upper
276 100
277 23.5 20.2 30.4
138 27.7 22.0 33.0

