

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037014.D
 Acq On : 14 May 2025 15:48
 Operator : RC/JU
 Sample : Q1872-13DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: May 14 16:13:26 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)

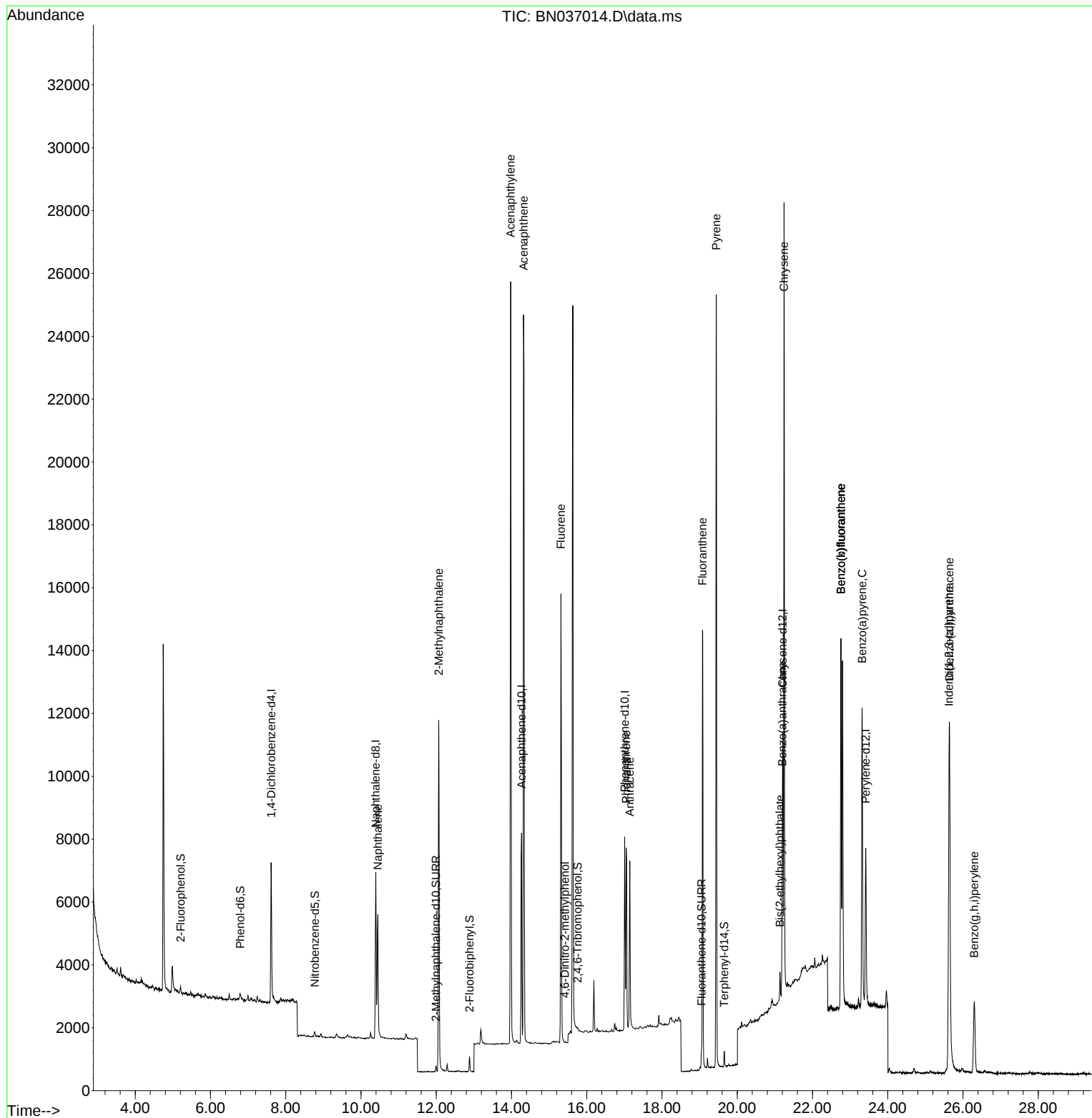
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2217	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	6524	0.400	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3844	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	7555	0.400	ng	0.00
29) Chrysene-d12	21.206	240	6828	0.400	ng	0.00
35) Perylene-d12	23.415	264	6318	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	152	0.026	ng	0.00
5) Phenol-d6	6.788	99	202	0.028	ng	0.00
8) Nitrobenzene-d5	8.771	82	167	0.024	ng	0.00
11) 2-Methylnaphthalene-d10	11.991	152	274	0.030	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	43	0.025	ng	-0.01
15) 2-Fluorobiphenyl	12.883	172	446	0.025	ng	0.00
27) Fluoranthene-d10	19.049	212	647	0.031	ng	0.00
31) Terphenyl-d14	19.653	244	493	0.034	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.447	128	5349	0.277	ng	99
12) 2-Methylnaphthalene	12.067	142	7989	0.644	ng	97
16) Acenaphthylene	13.978	152	25111	1.342	ng	100
17) Acenaphthene	14.320	154	11699	0.957	ng	98
18) Fluorene	15.314	166	8614	0.537	ng	100
20) 4,6-Dinitro-2-methylph...	15.421	198	1	0.024	ng	# 1
25) Phenanthrene	17.046	178	6724	0.272	ng	99
26) Anthracene	17.145	178	5812	0.259	ng	100
28) Fluoranthene	19.077	202	12683	0.430	ng	99
30) Pyrene	19.444	202	21776	0.746	ng	100
32) Benzo(a)anthracene	21.197	228	3185	0.124	ng	95
33) Chrysene	21.242	228	20196	0.743	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	933	0.059	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.628	276	9550	0.370	ng	# 91
37) Benzo(b)fluoranthene	22.754	252	13577	0.518	ng	98
38) Benzo(k)fluoranthene	22.754	252	13577	0.525	ng	97
39) Benzo(a)pyrene	23.319	252	13061	0.588	ng	# 92
40) Dibenzo(a,h)anthracene	25.640	278	13232	0.658	ng	95
41) Benzo(g,h,i)perylene	26.301	276	4514	0.207	ng	96

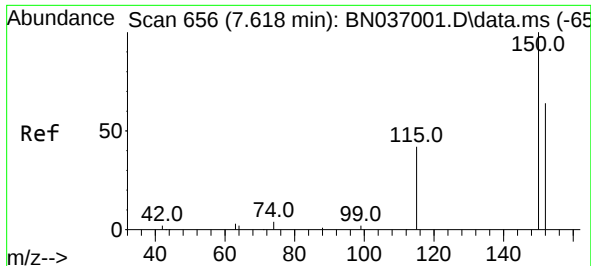
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037014.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

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

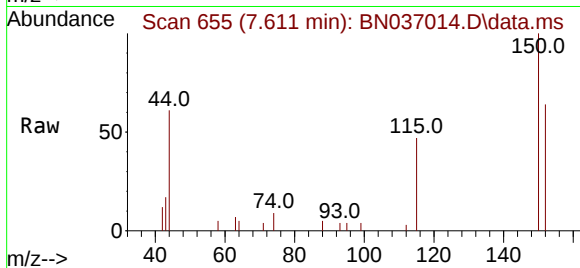
Quant Time: May 14 16:13:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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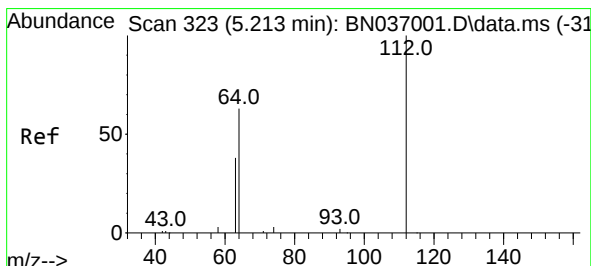
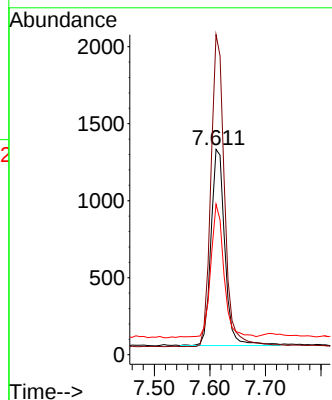
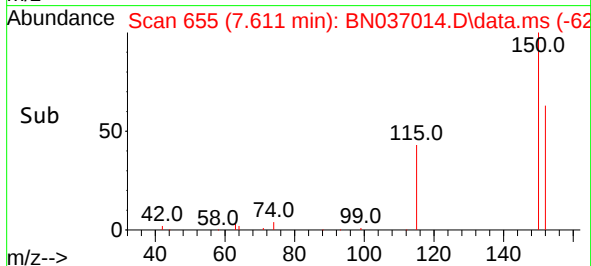


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.611 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

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

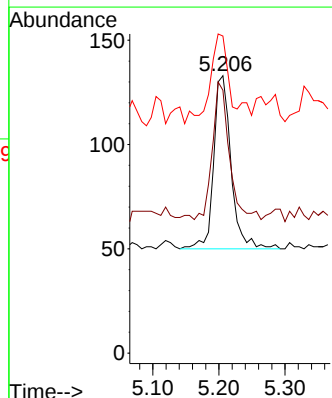
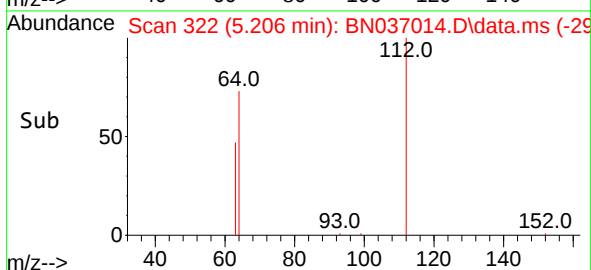
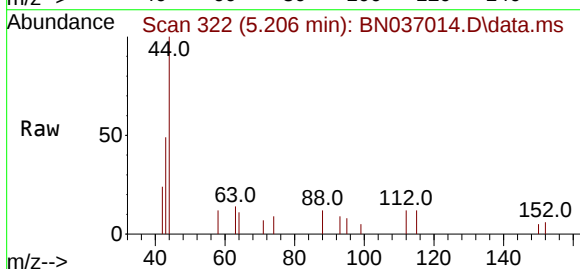


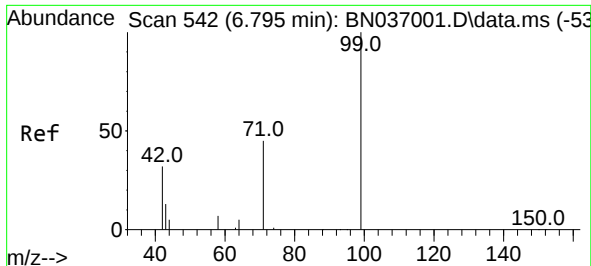
Tgt Ion:152 Resp: 2217
 Ion Ratio Lower Upper
 152 100
 150 155.9 123.9 185.9
 115 73.3 55.8 83.8



#4
 2-Fluorophenol
 Concen: 0.026 ng
 RT: 5.206 min Scan# 322
 Delta R.T. -0.007 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

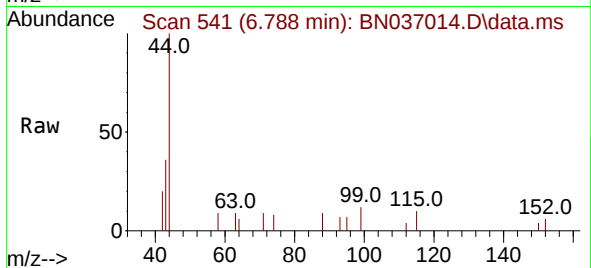
Tgt Ion:112 Resp: 152
 Ion Ratio Lower Upper
 112 100
 64 76.3 55.7 83.5
 63 53.9 34.6 51.8#



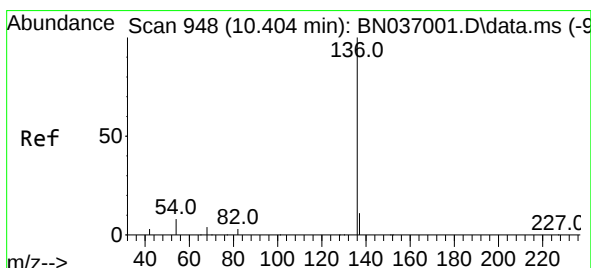
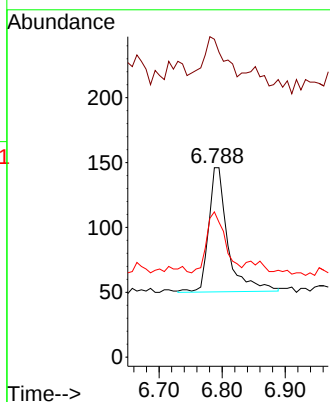
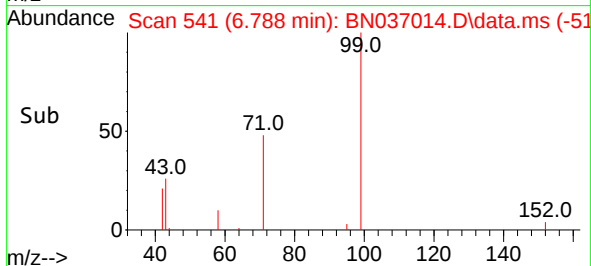


#5
Phenol-d6
Concen: 0.028 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

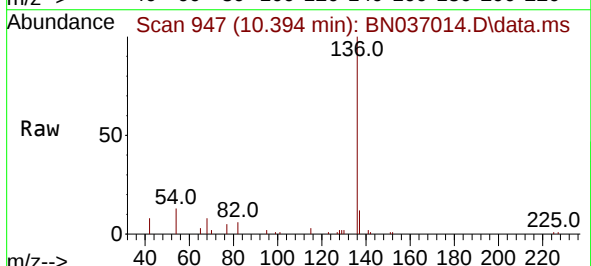
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



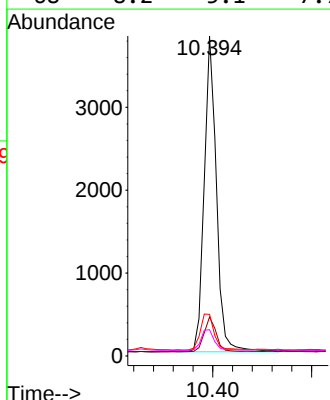
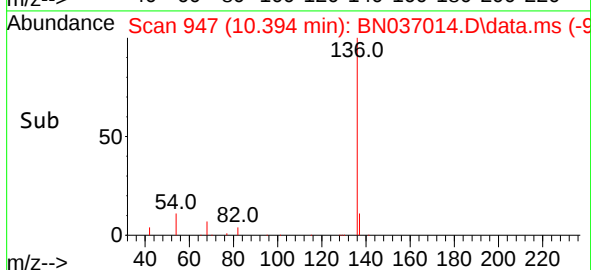
Tgt Ion: 99 Resp: 202
Ion Ratio Lower Upper
99 100
42 38.6 29.3 43.9
71 47.5 35.7 53.5

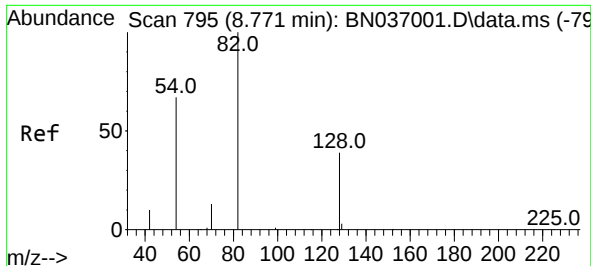


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



Tgt Ion: 136 Resp: 6524
Ion Ratio Lower Upper
136 100
137 12.2 10.4 15.6
54 13.0 8.5 12.7#
68 8.2 5.1 7.7#

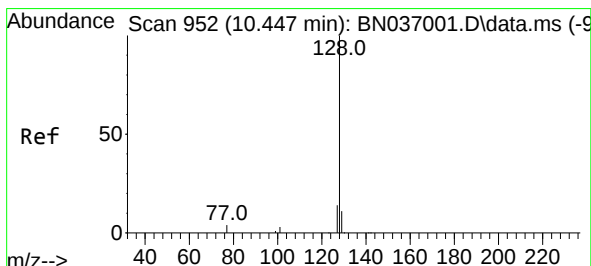
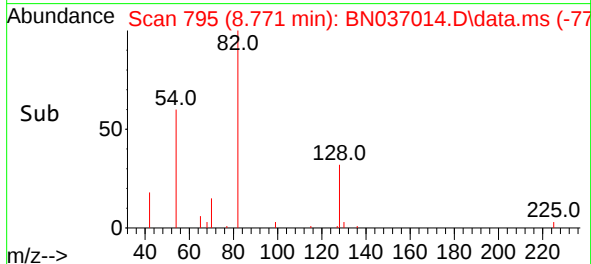
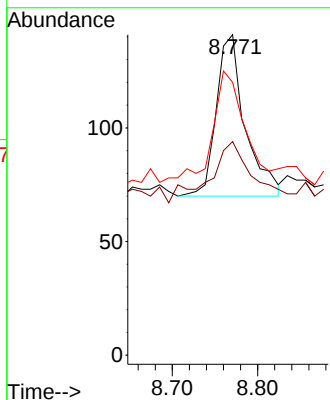
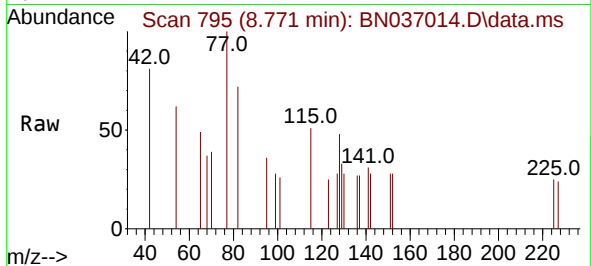




#8
Nitrobenzene-d5
Concen: 0.024 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

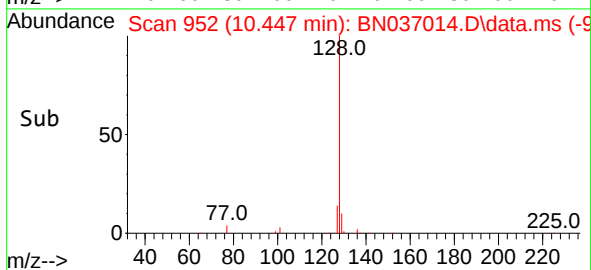
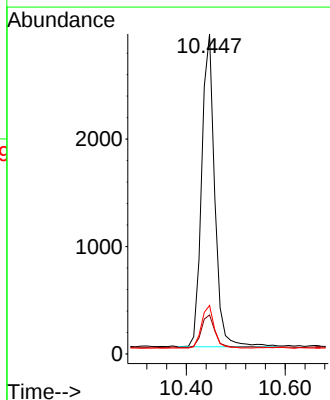
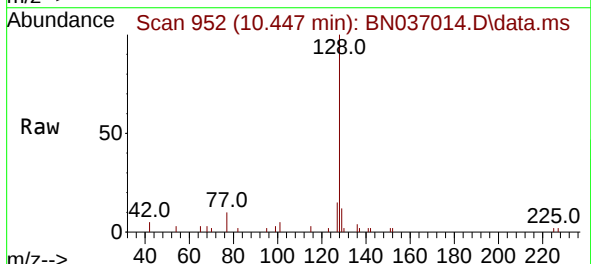
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

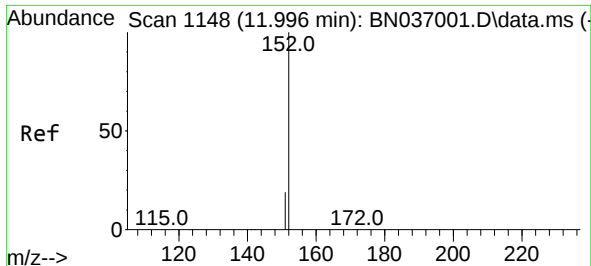
Tgt Ion: 82 Resp: 167
Ion Ratio Lower Upper
82 100
128 66.7 34.0 51.0#
54 85.1 55.0 82.4#



#9
Naphthalene
Concen: 0.277 ng
RT: 10.447 min Scan# 952
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion: 128 Resp: 5349
Ion Ratio Lower Upper
128 100
129 12.2 9.7 14.5
127 15.1 12.4 18.6

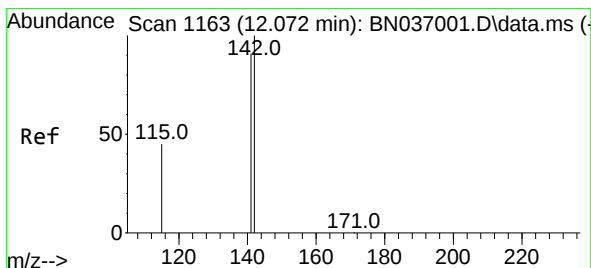
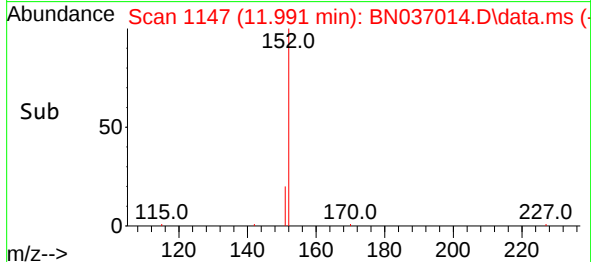
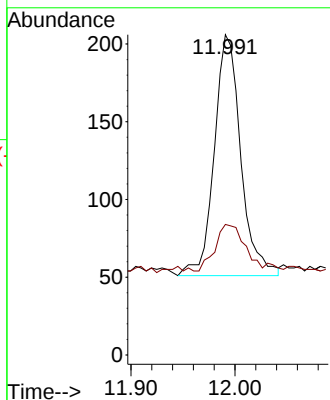
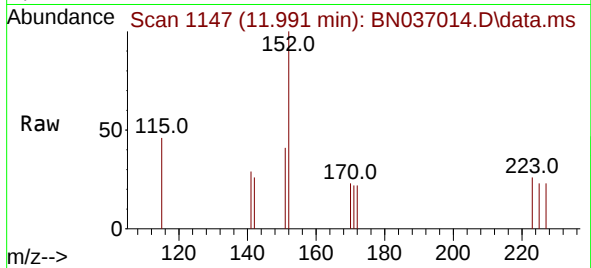




#11
2-Methylnaphthalene-d10
Concen: 0.030 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

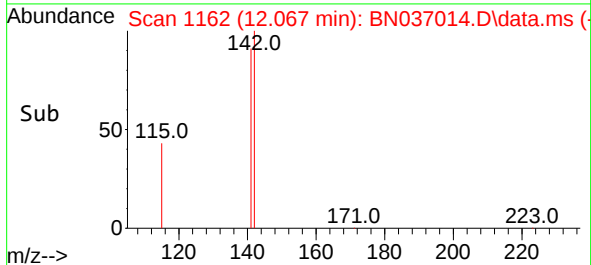
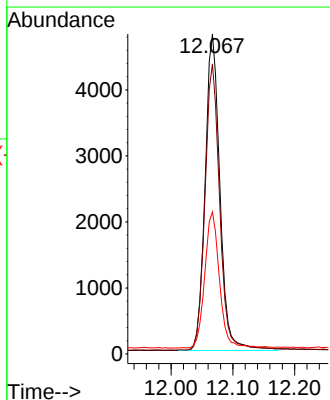
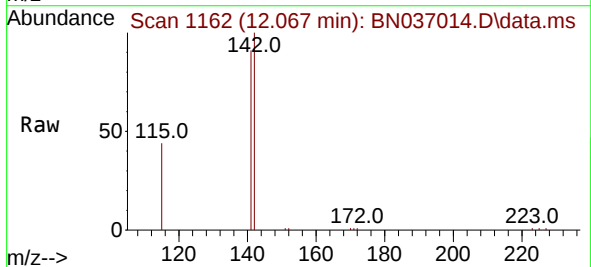
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

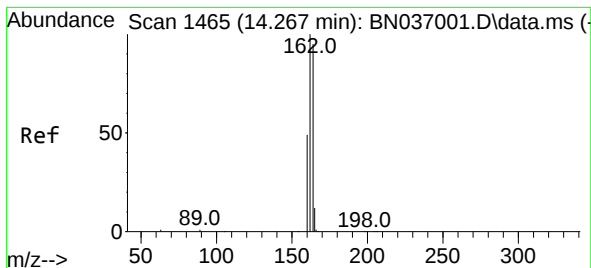
Tgt Ion:152 Resp: 274
Ion Ratio Lower Upper
152 100
151 22.6 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.644 ng
RT: 12.067 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:142 Resp: 7989
Ion Ratio Lower Upper
142 100
141 90.6 73.3 109.9
115 44.4 38.4 57.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.267 min Scan# 1465

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD

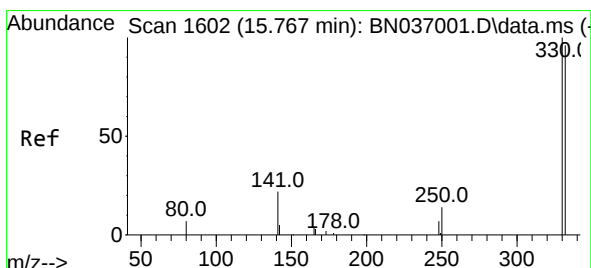
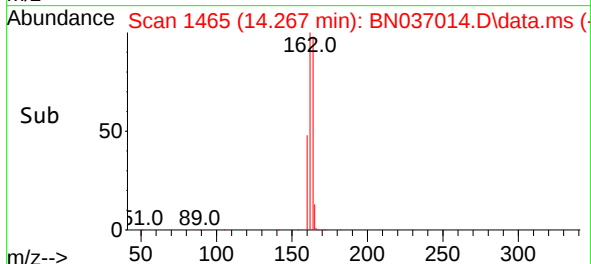
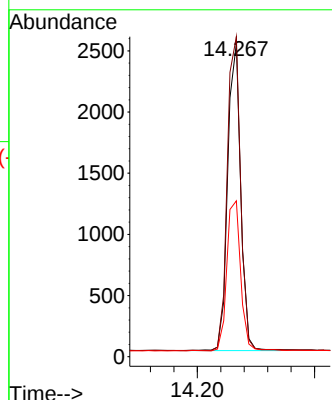
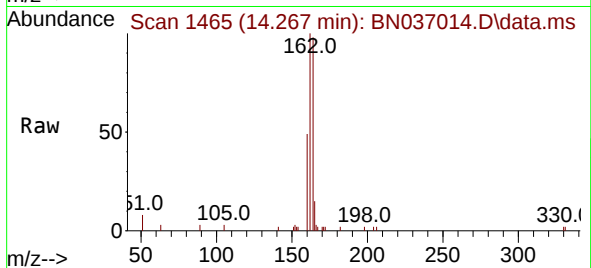
Tgt Ion:164 Resp: 3844

Ion Ratio Lower Upper

164 100

162 102.1 84.2 126.4

160 49.7 42.6 63.8



#14

2,4,6-Tribromophenol

Concen: 0.025 ng

RT: 15.755 min Scan# 1601

Delta R.T. -0.012 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

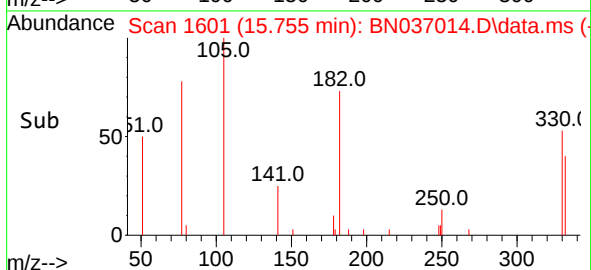
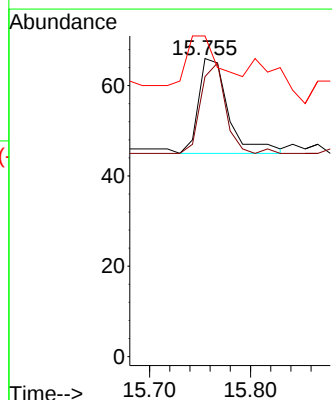
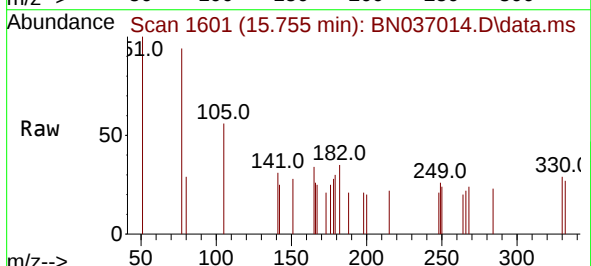
Tgt Ion:330 Resp: 43

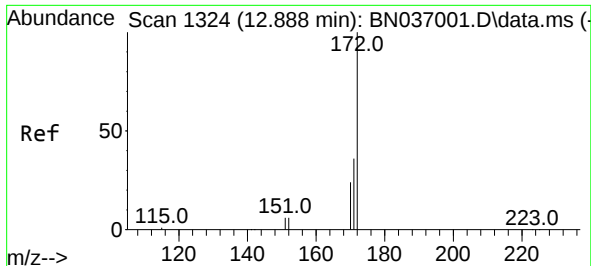
Ion Ratio Lower Upper

330 100

332 79.1 73.8 110.8

141 0.0 43.9 65.9#

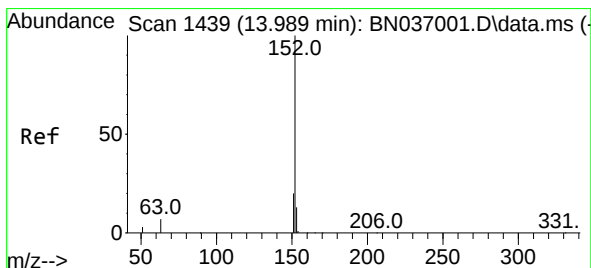
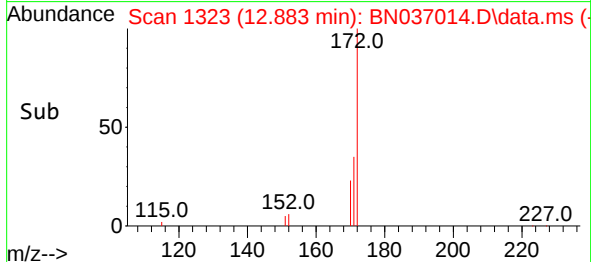
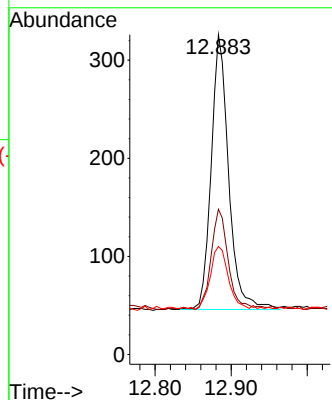
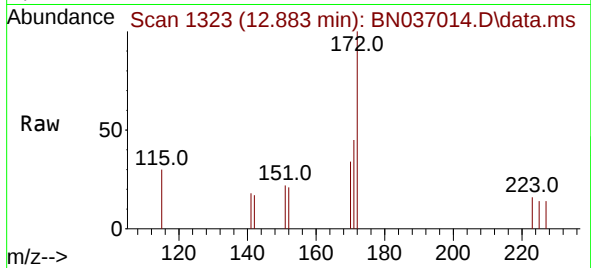




#15
2-Fluorobiphenyl
Concen: 0.025 ng
RT: 12.883 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

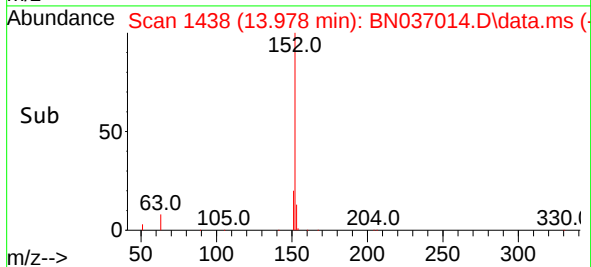
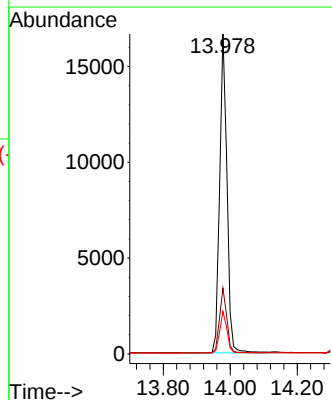
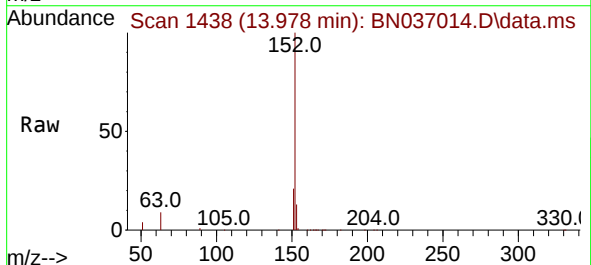
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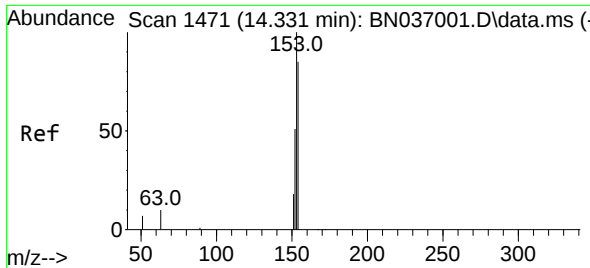
Tgt Ion:172 Resp: 446
Ion Ratio Lower Upper
172 100
171 45.4 29.2 43.8#
170 33.7 20.5 30.7#



#16
Acenaphthylene
Concen: 1.342 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:152 Resp: 25111
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 13.0 10.5 15.7

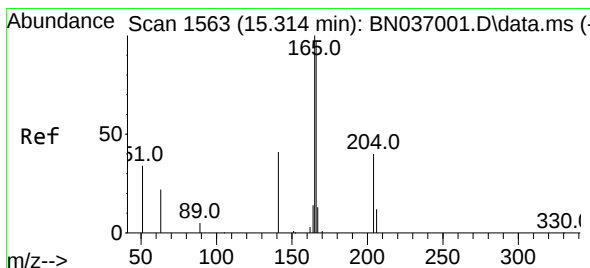
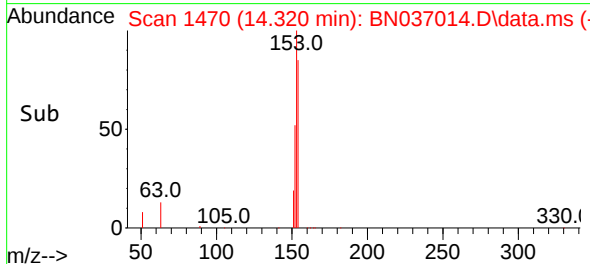
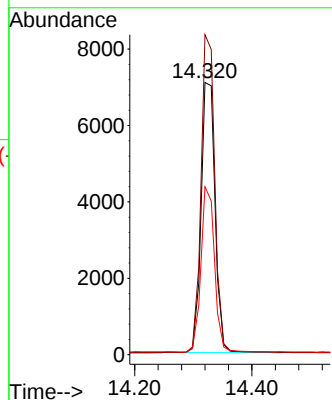
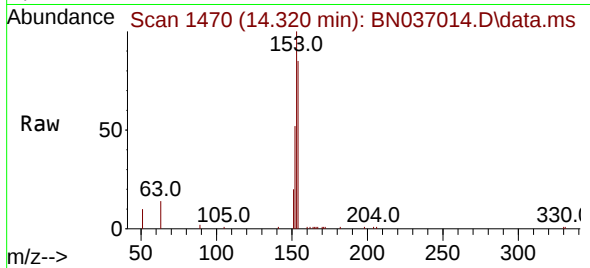




#17
Acenaphthene
Concen: 0.957 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

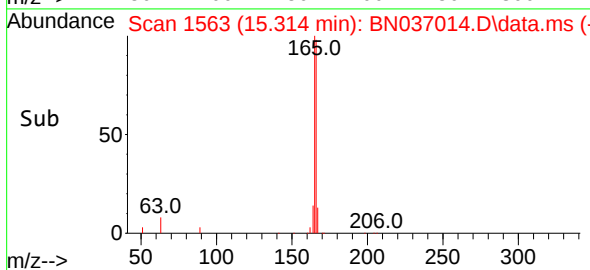
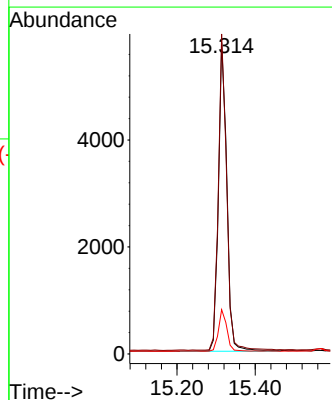
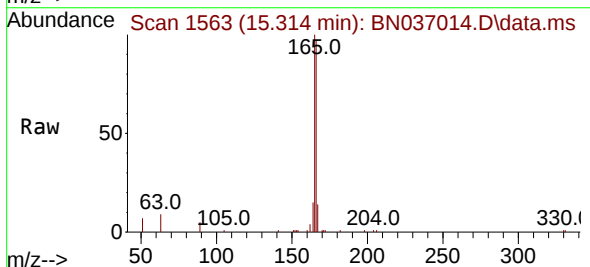
Instrument :
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HW0425-PT-PAH-SOILD

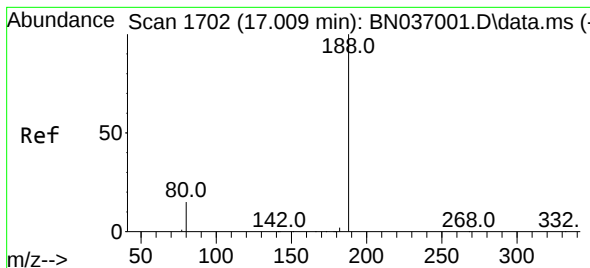
Tgt Ion:154 Resp: 11699
Ion Ratio Lower Upper
154 100
153 116.5 94.2 141.4
152 59.7 49.4 74.0



#18
Fluorene
Concen: 0.537 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:166 Resp: 8614
Ion Ratio Lower Upper
166 100
165 100.3 80.6 120.8
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037014.D

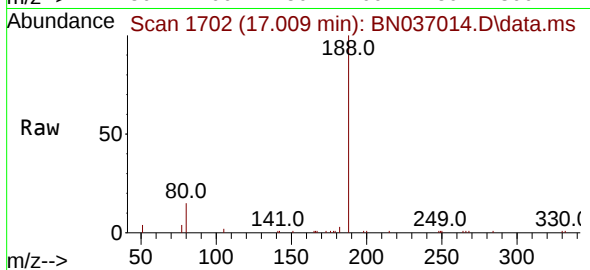
Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD



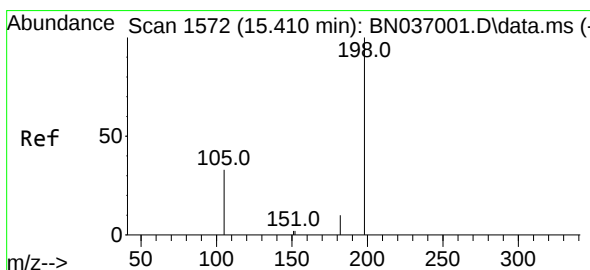
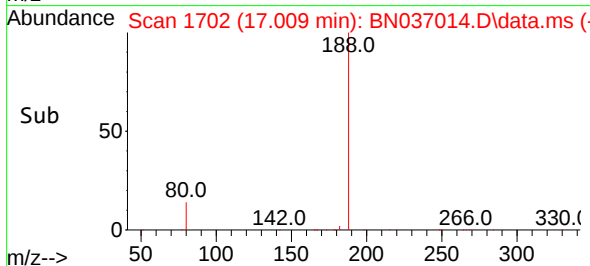
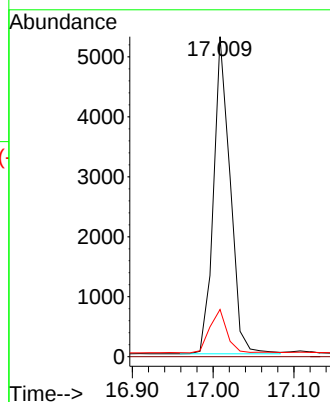
Tgt Ion:188 Resp: 7555

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.024 ng

RT: 15.421 min Scan# 1573

Delta R.T. 0.011 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

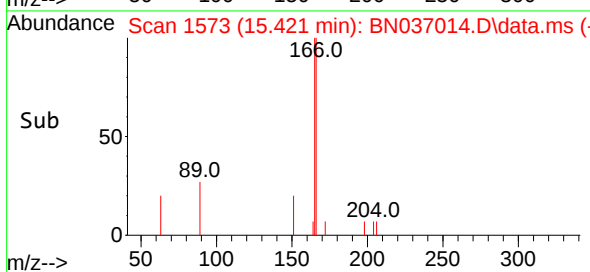
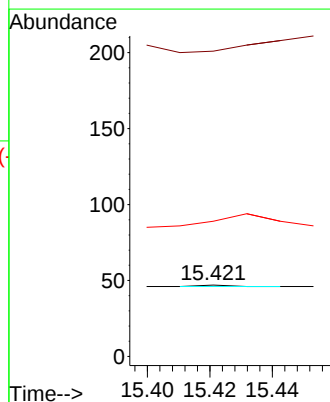
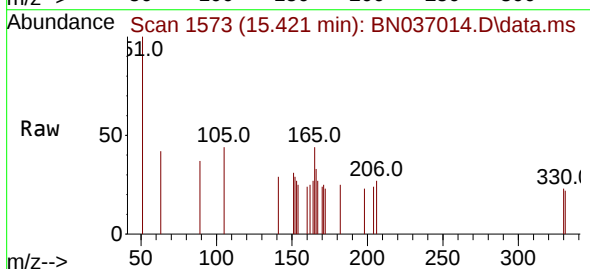
Tgt Ion:198 Resp: 1

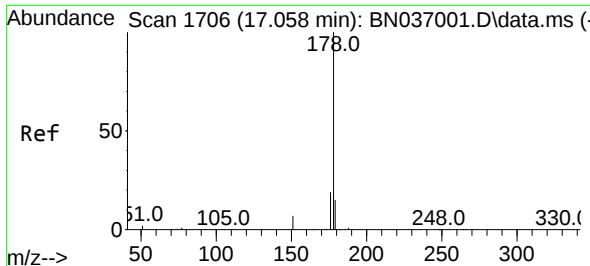
Ion Ratio Lower Upper

198 100

51 427.7 87.8 131.6#

105 189.4 44.2 66.4#

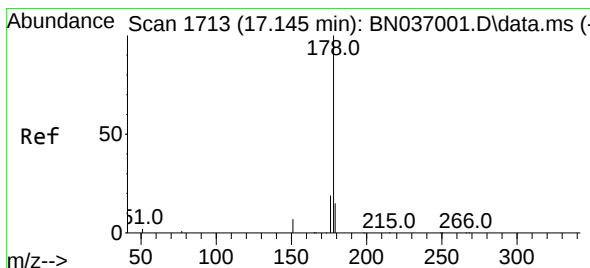
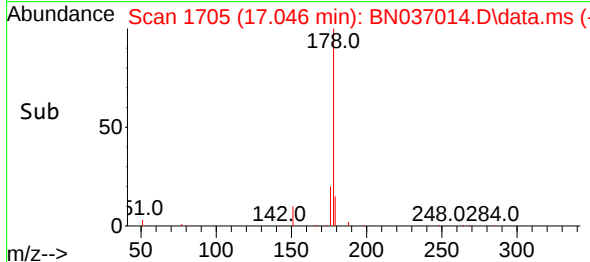
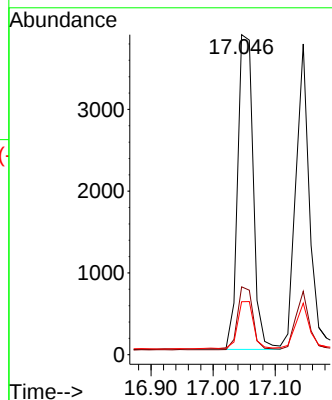
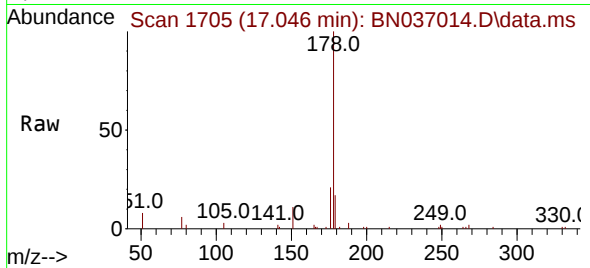




#25
Phenanthrene
Concen: 0.272 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

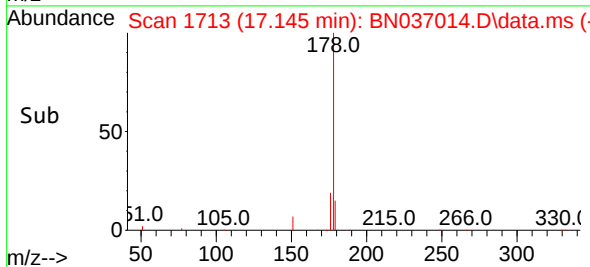
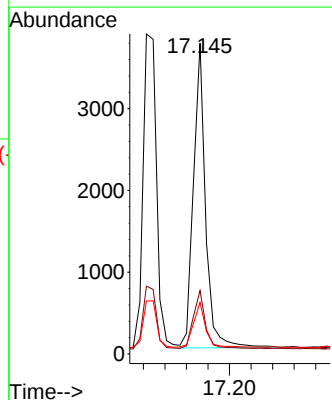
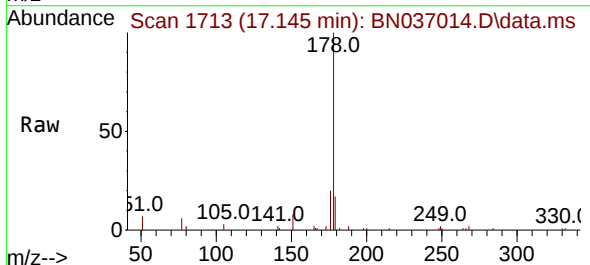
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

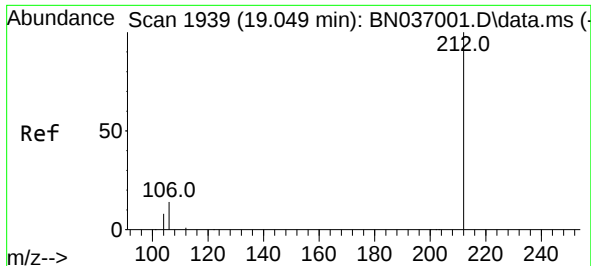
Tgt Ion:178 Resp: 6724
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.9 12.2 18.2



#26
Anthracene
Concen: 0.259 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:178 Resp: 5812
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.2 12.3 18.5

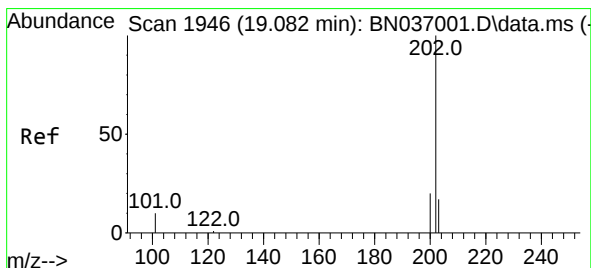
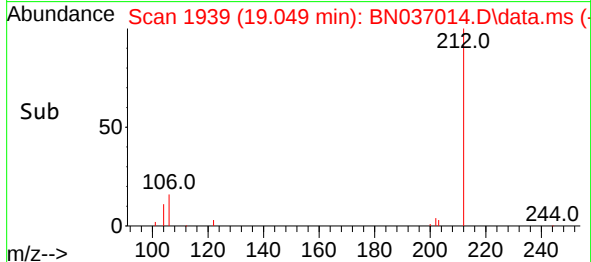
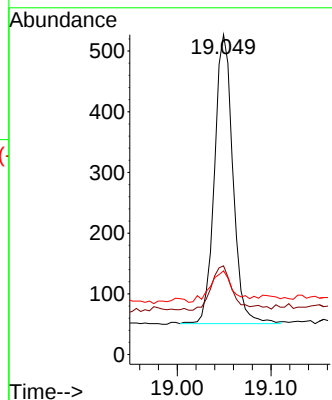
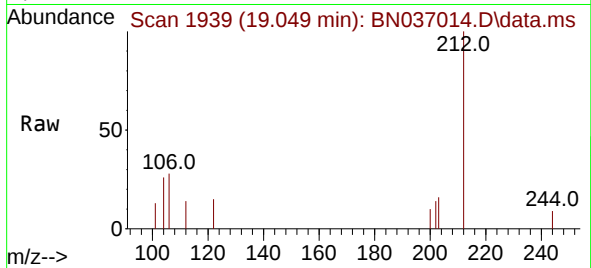




#27
Fluoranthene-d10
Concen: 0.031 ng
RT: 19.049 min Scan# 1939
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

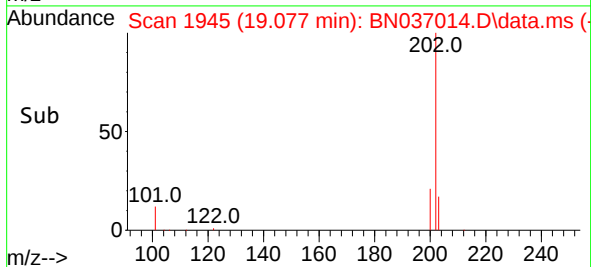
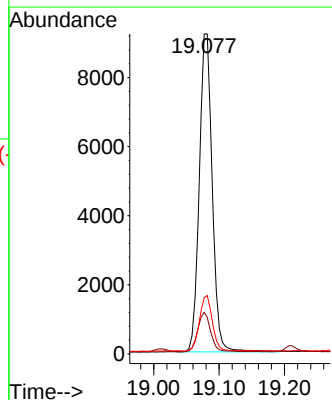
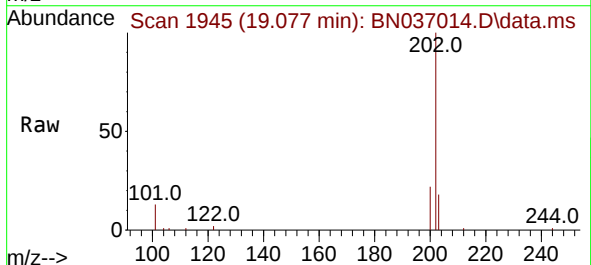
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

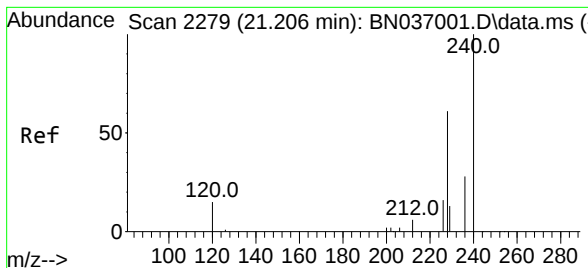
Tgt Ion:212 Resp: 647
Ion Ratio Lower Upper
212 100
106 18.5 11.3 16.9#
104 12.8 6.7 10.1#



#28
Fluoranthene
Concen: 0.430 ng
RT: 19.077 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:202 Resp: 12683
Ion Ratio Lower Upper
202 100
101 12.3 8.9 13.3
203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD

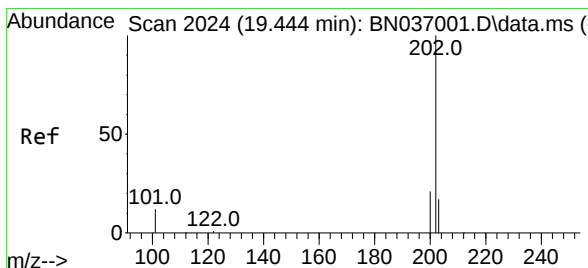
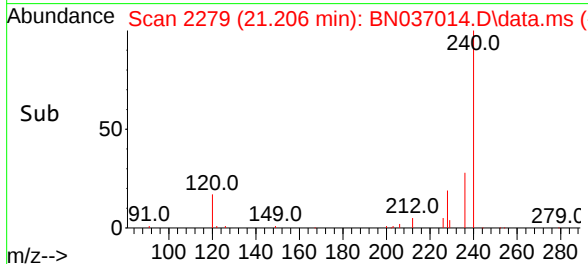
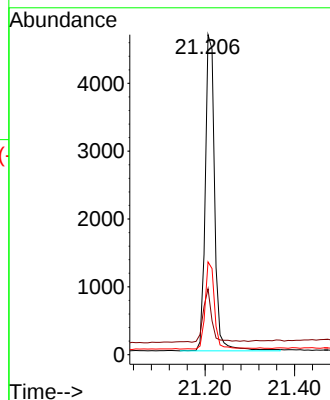
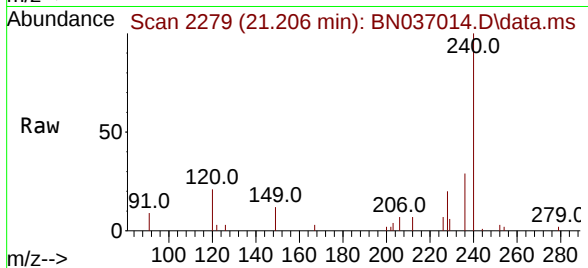
Tgt Ion:240 Resp: 6828

Ion Ratio Lower Upper

240 100

120 20.6 15.1 22.7

236 29.0 24.0 36.0



#30

Pyrene

Concen: 0.746 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

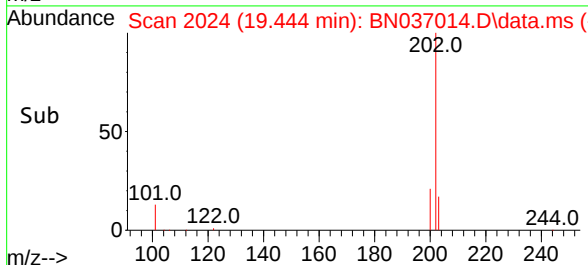
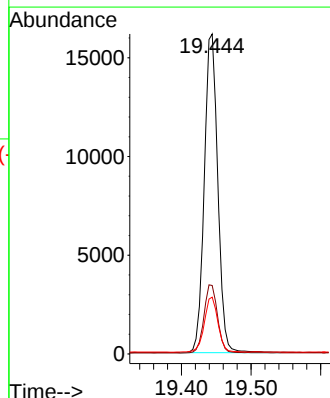
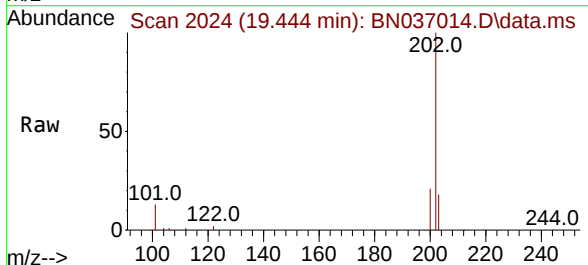
Tgt Ion:202 Resp: 21776

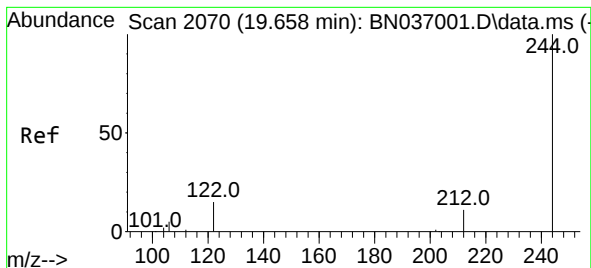
Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.5 14.2 21.4





#31

Terphenyl-d14

Concen: 0.034 ng

RT: 19.653 min Scan# 2070

Delta R.T. -0.005 min

Lab File: BN037014.D

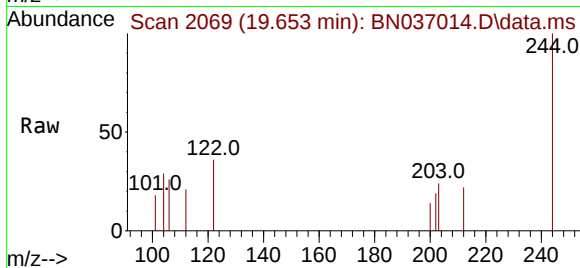
Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD



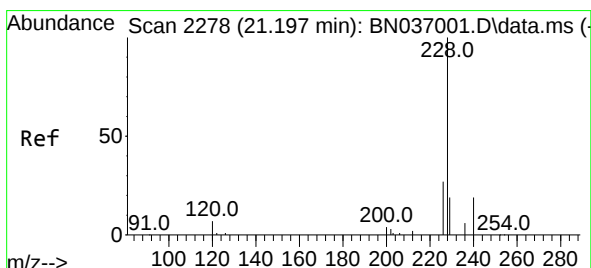
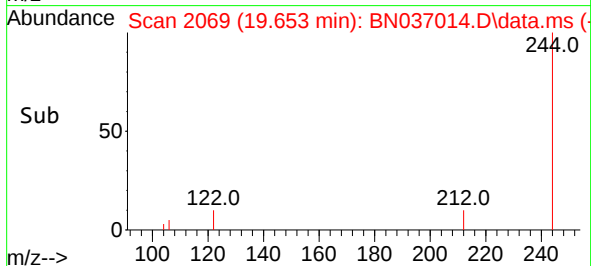
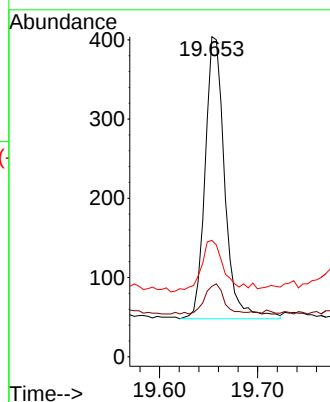
Tgt Ion:244 Resp: 493

Ion Ratio Lower Upper

244 100

212 22.0 9.7 14.5#

122 36.4 13.4 20.0#



#32

Benzo(a)anthracene

Concen: 0.124 ng

RT: 21.197 min Scan# 2278

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

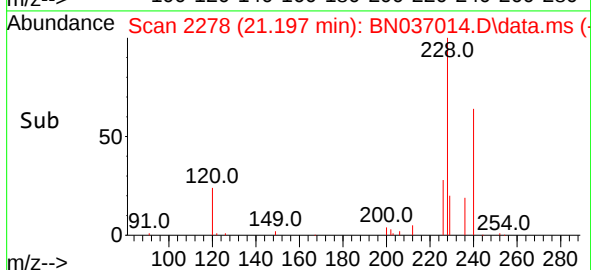
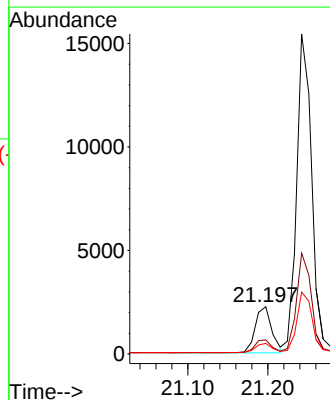
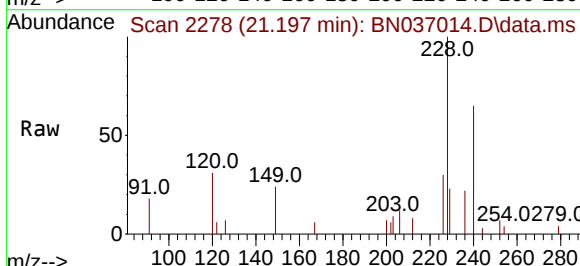
Tgt Ion:228 Resp: 3185

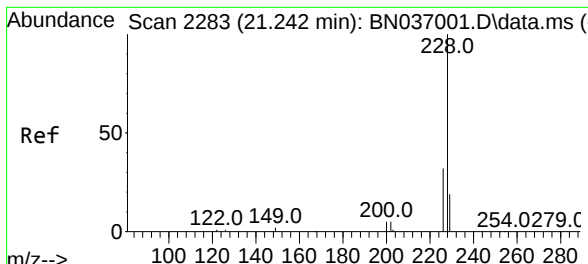
Ion Ratio Lower Upper

228 100

226 29.9 22.2 33.4

229 22.5 16.0 24.0





#33

Chrysene

Concen: 0.743 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD

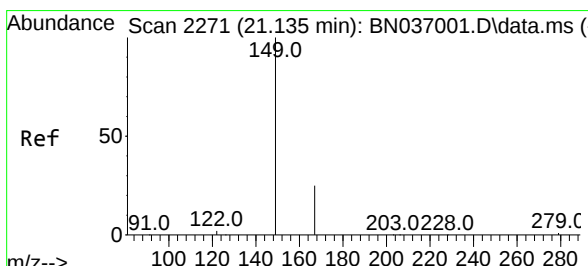
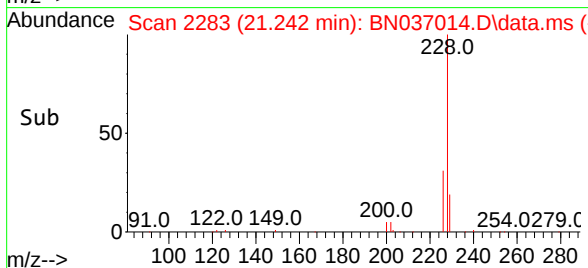
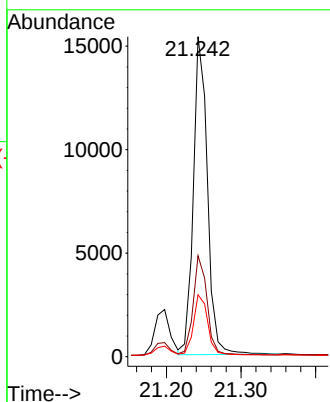
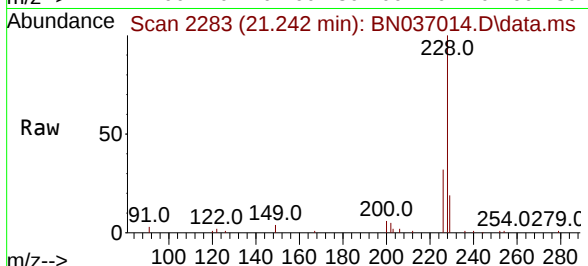
Tgt Ion:228 Resp: 20196

Ion Ratio Lower Upper

228 100

226 31.6 26.3 39.5

229 19.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.059 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

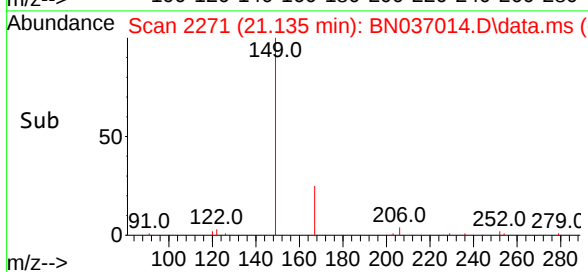
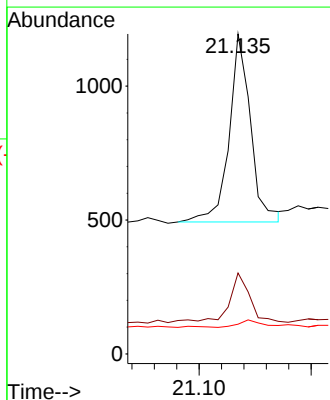
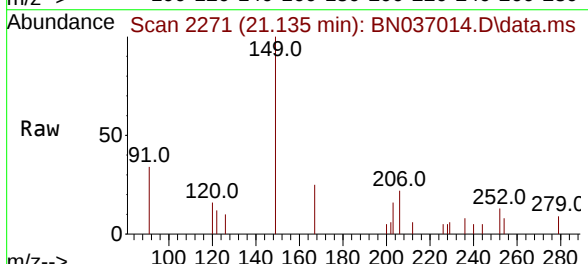
Tgt Ion:149 Resp: 933

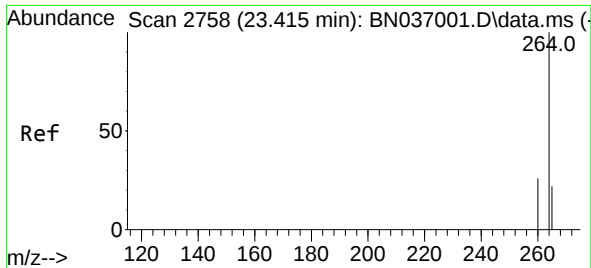
Ion Ratio Lower Upper

149 100

167 24.7 20.6 30.8

279 5.5 2.6 3.8#



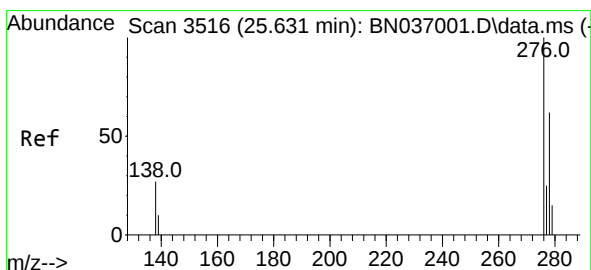
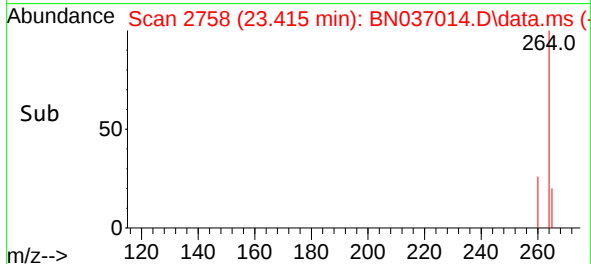
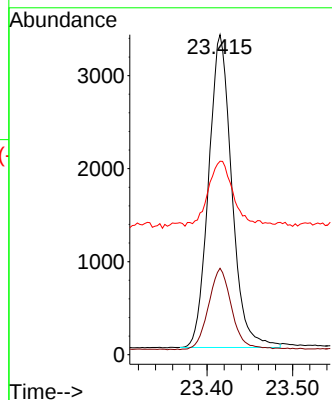
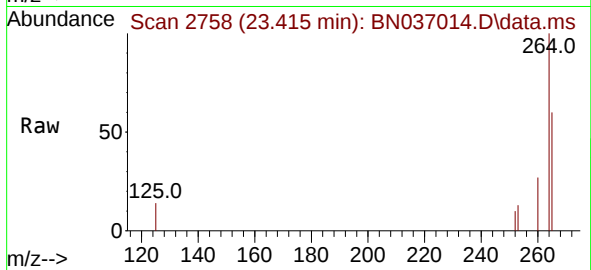


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

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

Tgt Ion:264 Resp: 6318

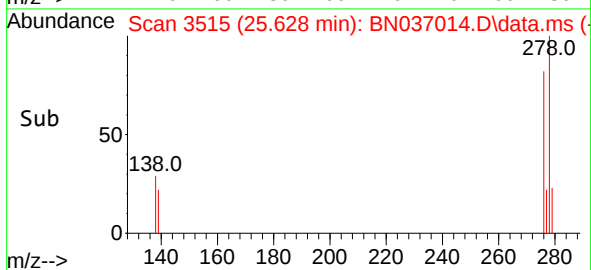
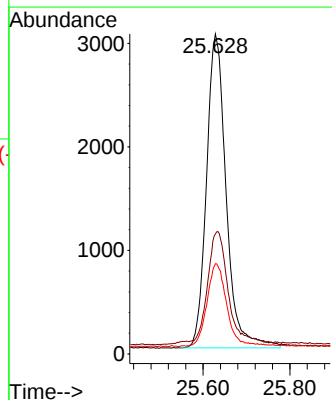
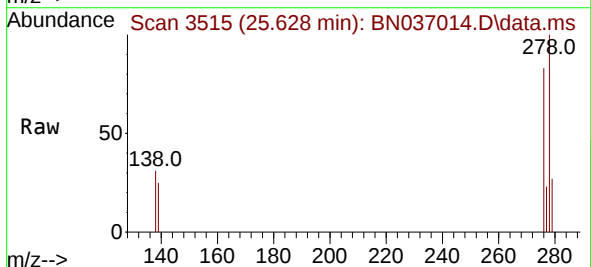
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.9	32.9
265	60.5	51.6	77.4

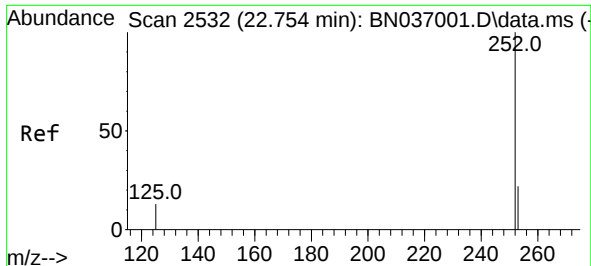


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:276 Resp: 9550

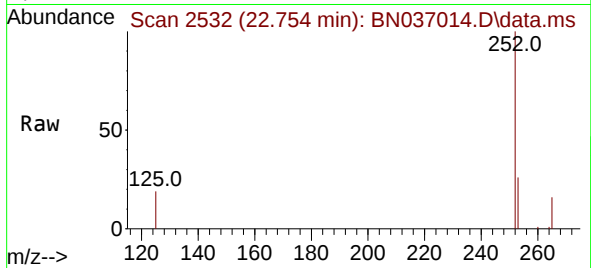
Ion	Ratio	Lower	Upper
276	100		
138	36.2	22.7	34.1#
277	26.0	20.0	30.0



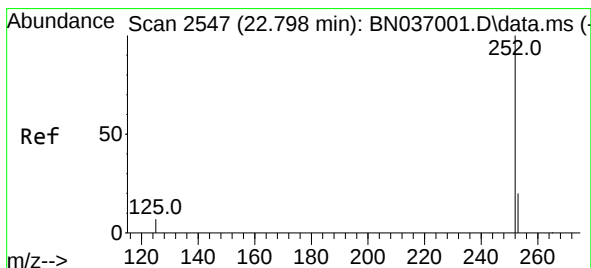
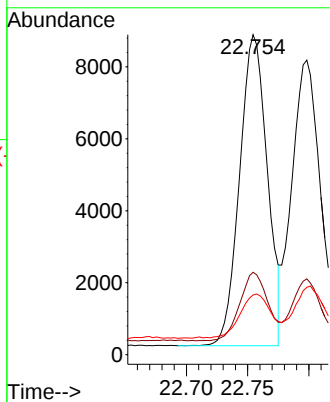
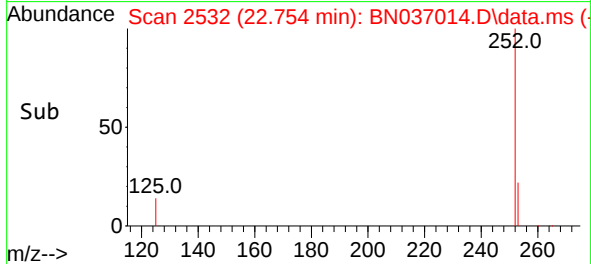


#37
Benzo(b)fluoranthene
Concen: 0.518 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

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

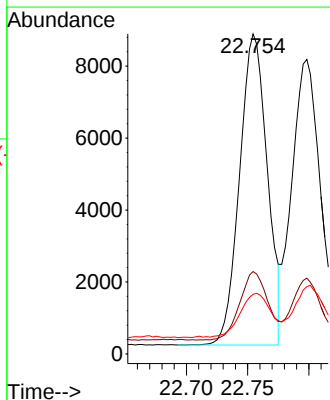
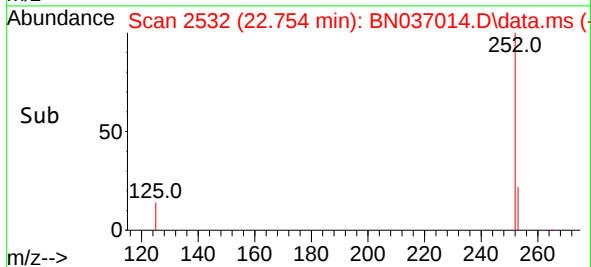
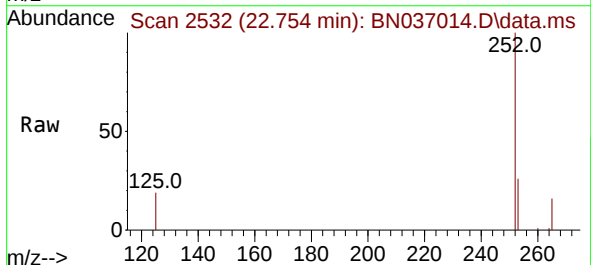


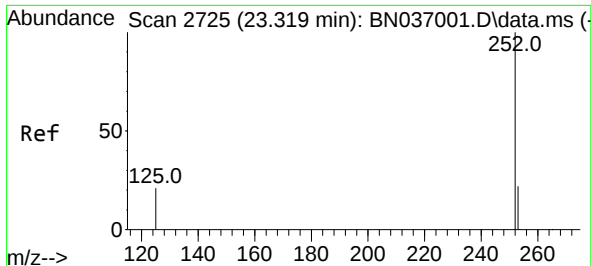
Tgt Ion:252 Resp: 13577
Ion Ratio Lower Upper
252 100
253 25.8 21.8 32.6
125 18.7 14.6 21.8



#38
Benzo(k)fluoranthene
Concen: 0.525 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.044 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

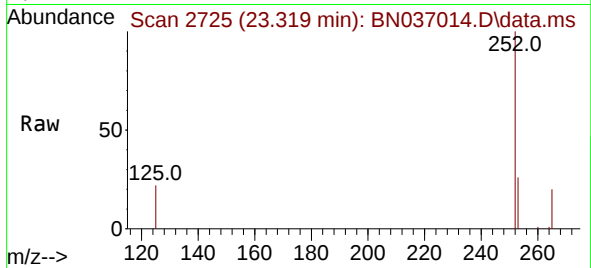
Tgt Ion:252 Resp: 13577
Ion Ratio Lower Upper
252 100
253 25.8 21.4 32.2
125 18.7 13.0 19.4



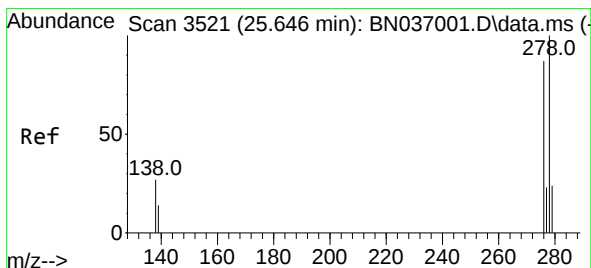
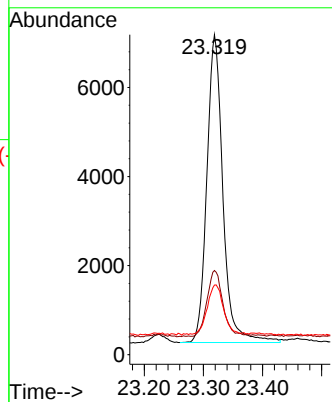
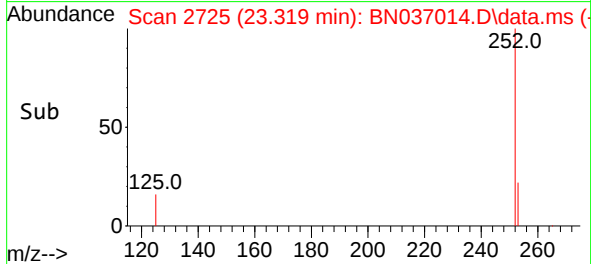


#39
Benzo(a)pyrene
Concen: 0.588 ng
RT: 23.319 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

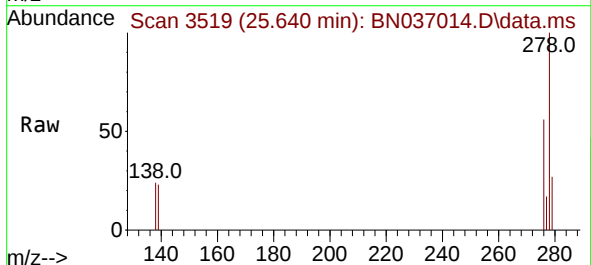
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



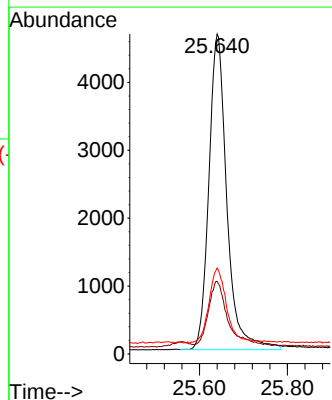
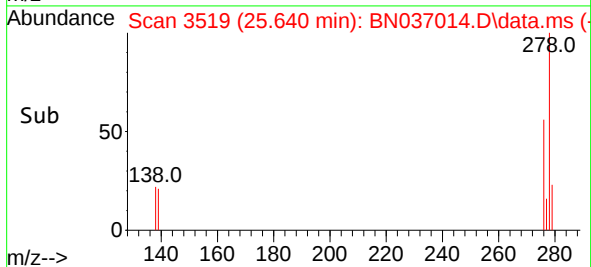
Tgt Ion:252 Resp: 13061
Ion Ratio Lower Upper
252 100
253 26.3 23.8 35.6
125 21.7 21.8 32.6#

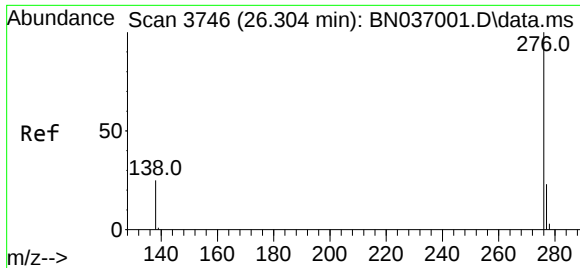


#40
Dibenzo(a,h)anthracene
Concen: 0.658 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



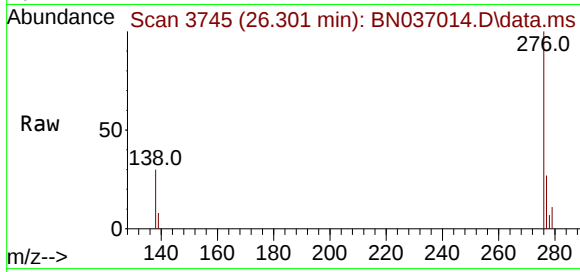
Tgt Ion:278 Resp: 13232
Ion Ratio Lower Upper
278 100
139 22.7 17.4 26.0
279 26.8 24.6 37.0





#41
Benzo(g,h,i)perylene
Concen: 0.207 ng
RT: 26.301 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

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



Tgt Ion:	276	Resp:	4514
Ion Ratio	Lower	Upper	
276	100		
277	26.9	20.2	30.4
138	30.4	22.0	33.0

