

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038226.D
 Acq On : 01 Dec 2025 14:56
 Operator : RC/JU
 Sample : Q3483-13
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-PAH-SOIL

Quant Time: Dec 01 15:20:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

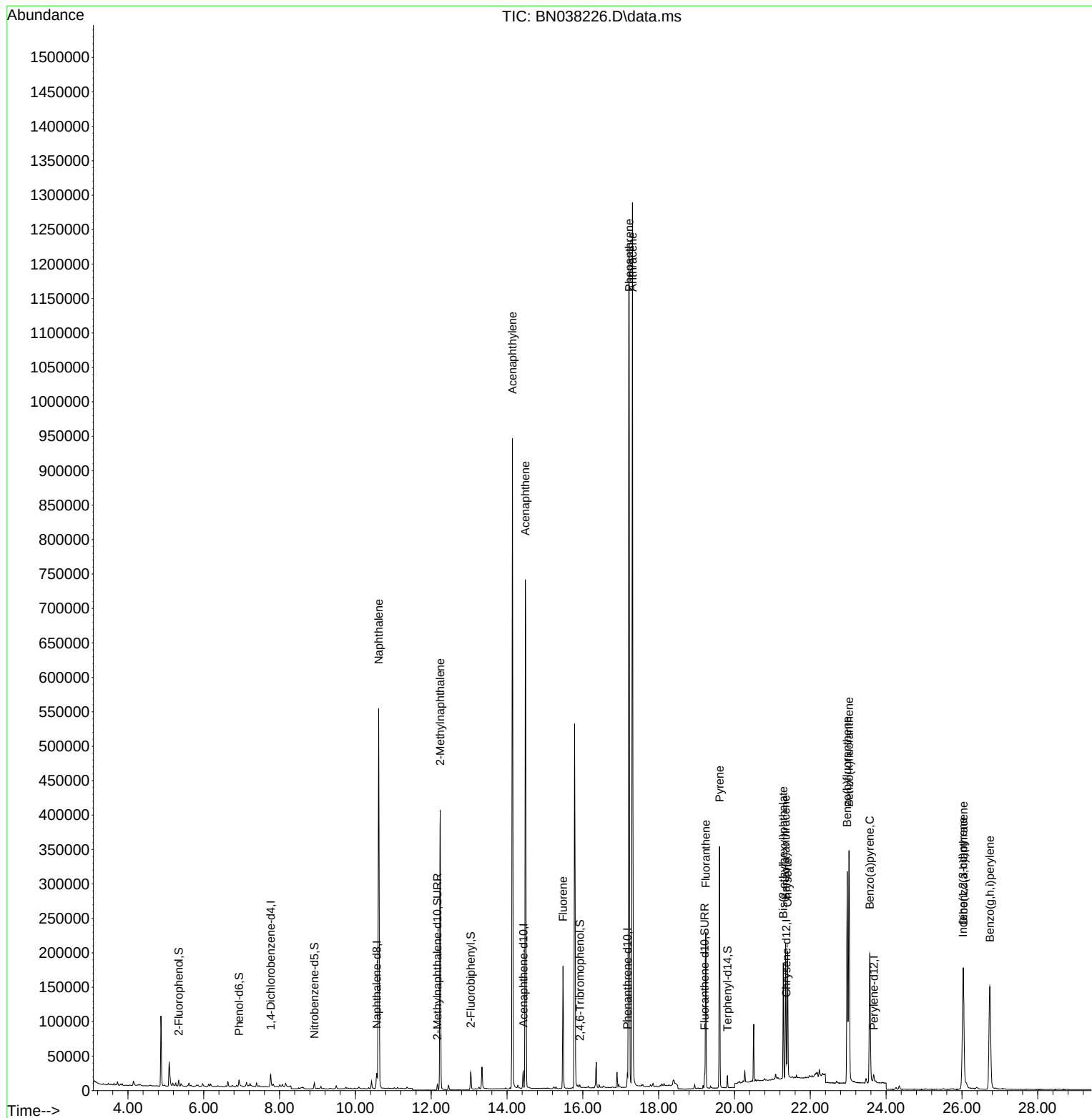
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8240	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	26555	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	15074	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	26427	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	15733	0.400	ng	0.00
35) Perylene-d12	23.674	264	15160	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	6825	0.354	ng	0.00
5) Phenol-d6	6.930	99	8553	0.355	ng	0.00
8) Nitrobenzene-d5	8.918	82	6893	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	12.162	152	11720	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1932	0.407	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	21176	0.364	ng	-0.01
27) Fluoranthene-d10	19.211	212	21765	0.380	ng	0.00
31) Terphenyl-d14	19.815	244	16178	0.445	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.616	128	707707	9.597	ng	99
12) 2-Methylnaphthalene	12.238	142	292224	6.022	ng	100
16) Acenaphthylene	14.142	152	990394	14.693	ng	100
17) Acenaphthene	14.484	154	389025	8.279	ng	98
18) Fluorene	15.478	166	115670	1.902	ng	98
25) Phenanthrene	17.223	178	1450718	17.487	ng	99
26) Anthracene	17.310	178	1254292	17.720	ng	100
28) Fluoranthene	19.243	202	195932	2.450	ng	100
30) Pyrene	19.606	202	306052	3.895	ng	99
32) Benzo(a)anthracene	21.349	228	162332	3.047	ng	100
33) Chrysene	21.402	228	147180	2.341	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	148034	5.074	ng	99
36) Indeno(1,2,3-cd)pyrene	26.025	276	138980	1.981	ng	# 89
37) Benzo(b)fluoranthene	22.976	252	388530	6.244	ng	# 86
38) Benzo(k)fluoranthene	23.019	252	422476	6.531	ng	# 90
39) Benzo(a)pyrene	23.569	252	290001	5.560	ng	# 77
40) Dibenzo(a,h)anthracene	26.037	278	249956	4.706	ng	# 91
41) Benzo(g,h,i)perylene	26.735	276	318151	5.013	ng	97

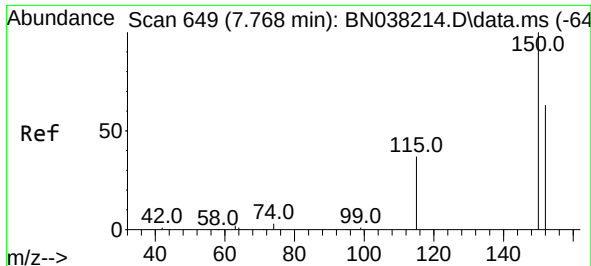
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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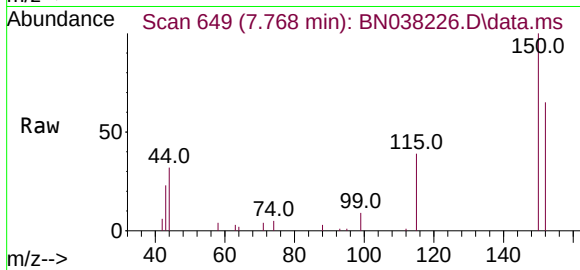
Quant Time: Dec 01 15:20:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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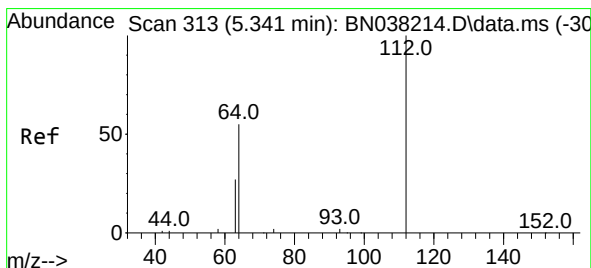
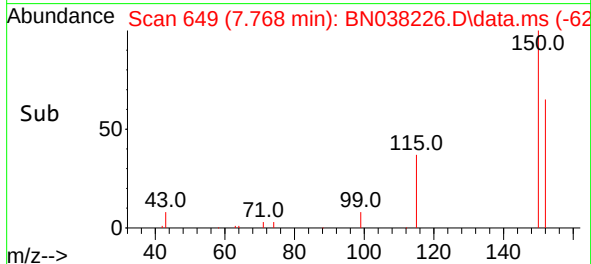
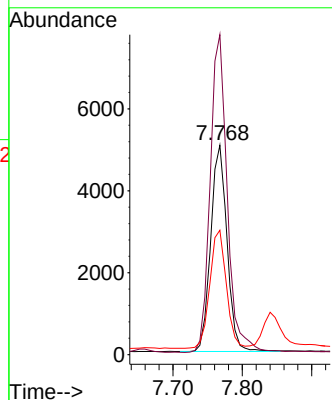


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.768 min Scan# 649
 Delta R.T. -0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Instrument :
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 ClientSampleId :
 HW1025-PT-PAH-SOIL

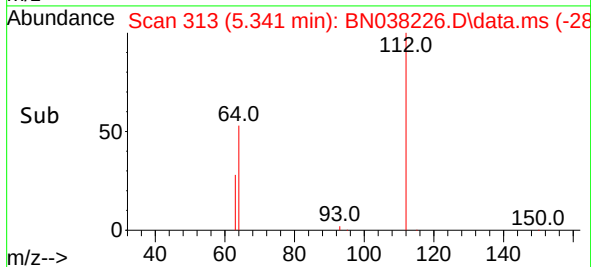
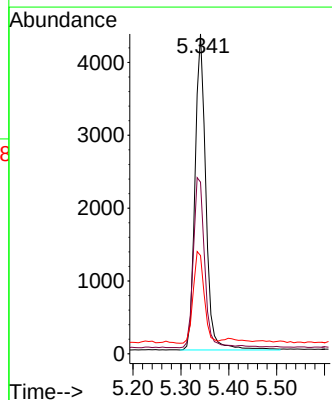
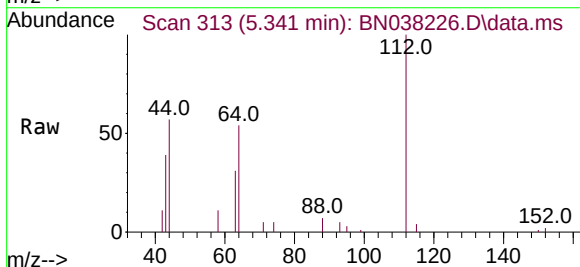


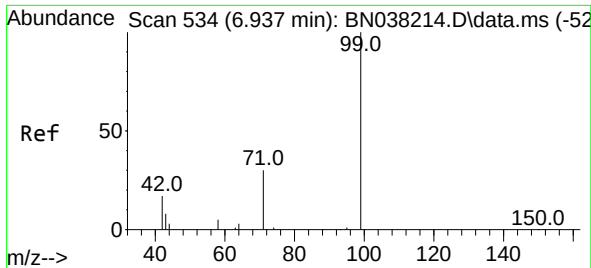
Tgt Ion:152 Resp: 8240
 Ion Ratio Lower Upper
 152 100
 150 152.8 125.3 187.9
 115 59.4 49.0 73.4



#4
 2-Fluorophenol
 Concen: 0.354 ng
 RT: 5.341 min Scan# 313
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

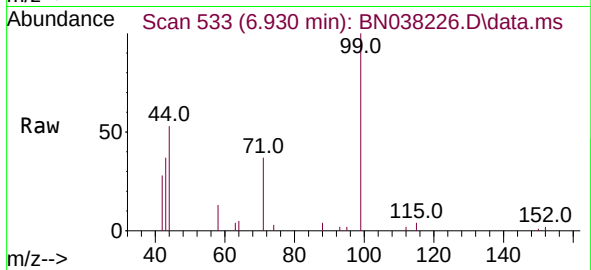
Tgt Ion:112 Resp: 6825
 Ion Ratio Lower Upper
 112 100
 64 55.9 45.0 67.4
 63 29.4 23.2 34.8



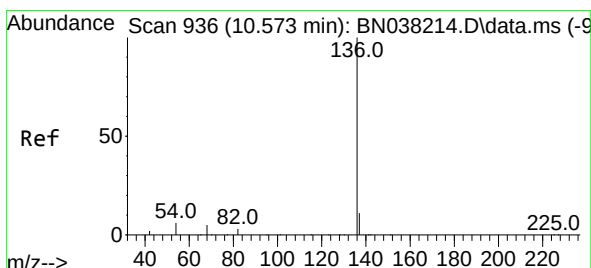
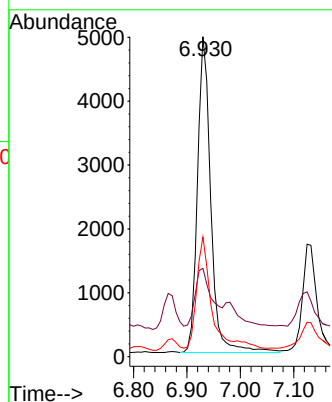
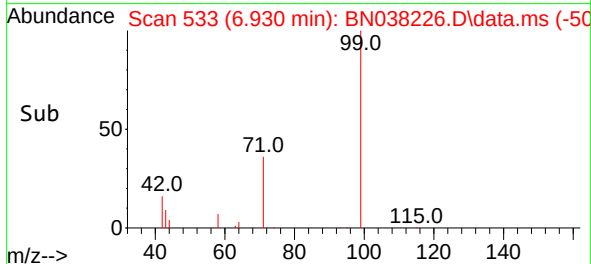


#5
Phenol-d6
Concen: 0.355 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

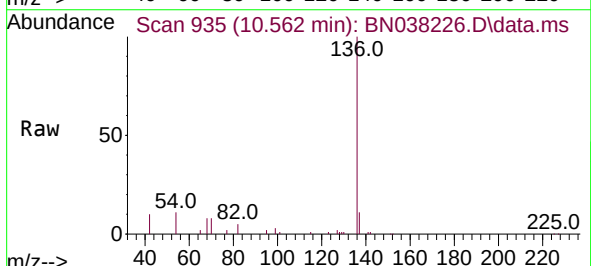
Instrument :
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HW1025-PT-PAH-SOIL



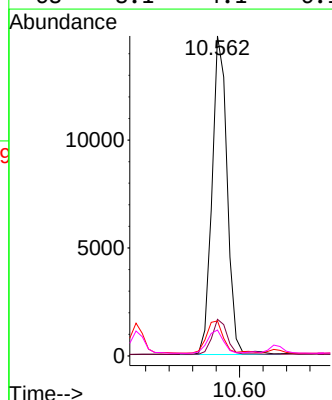
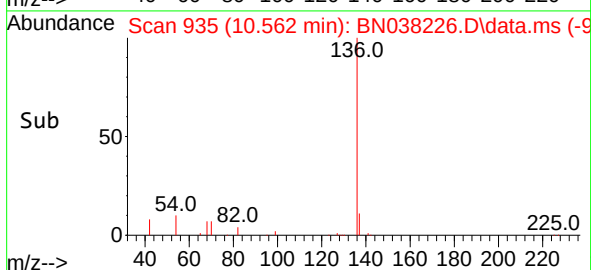
Tgt Ion:	99	Resp:	8553
Ion	Ratio	Lower	Upper
99	100		
42	22.9	17.0	25.6
71	39.1	25.4	38.2

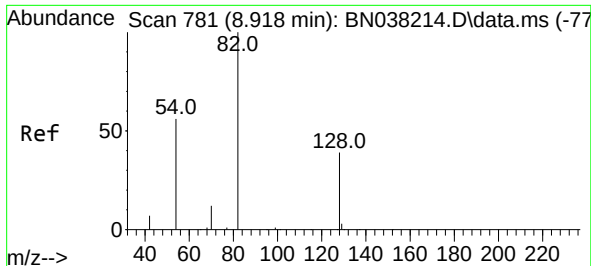


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56



Tgt Ion:	136	Resp:	26555
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	10.9	5.4	8.0
68	8.1	4.1	6.1

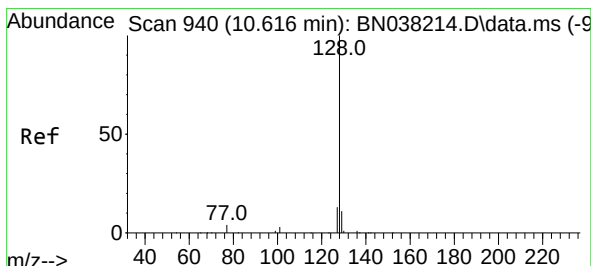
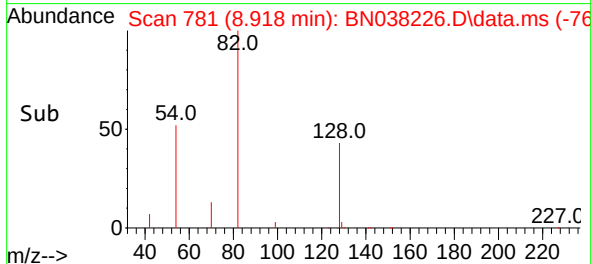
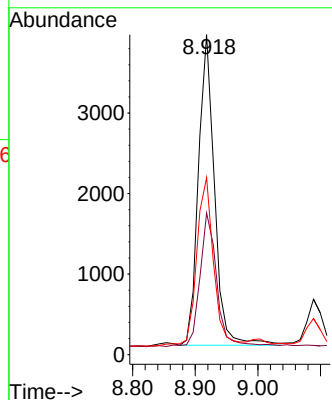
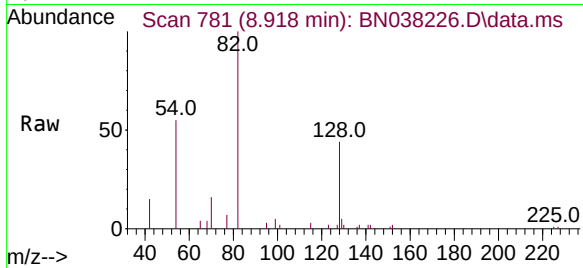




#8
 Nitrobenzene-d5
 Concen: 0.325 ng
 RT: 8.918 min Scan# 781
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

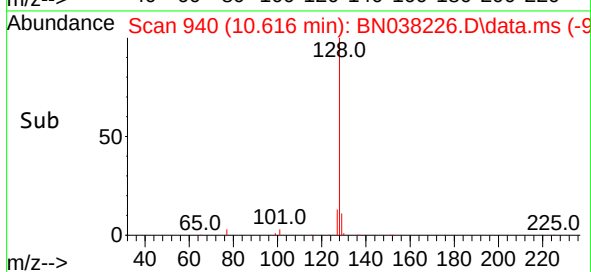
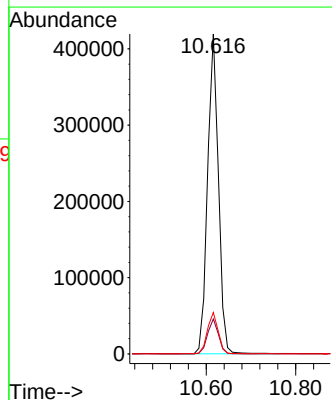
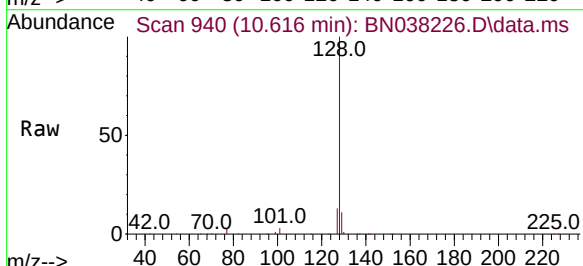
Instrument :
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 ClientSampleId :
 HW1025-PT-PAH-SOIL

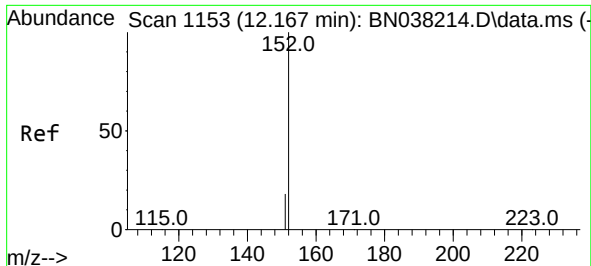
Tgt Ion: 82 Resp: 6893
 Ion Ratio Lower Upper
 82 100
 128 44.3 32.6 48.8
 54 55.3 45.4 68.0



#9
 Naphthalene
 Concen: 9.597 ng
 RT: 10.616 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Tgt Ion: 128 Resp: 707707
 Ion Ratio Lower Upper
 128 100
 129 10.9 9.1 13.7
 127 12.9 10.6 16.0

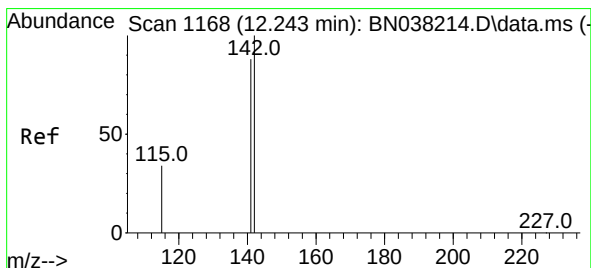
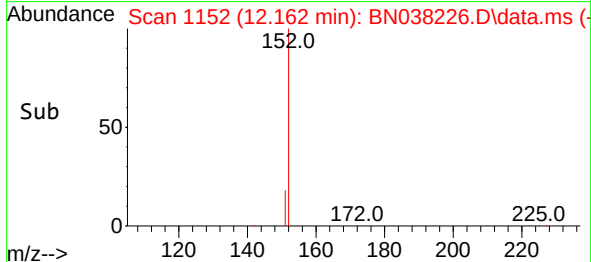
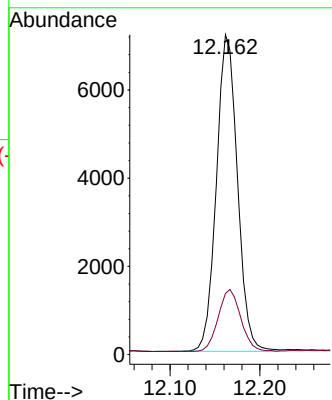
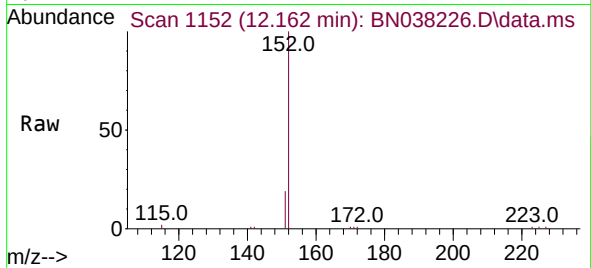




#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

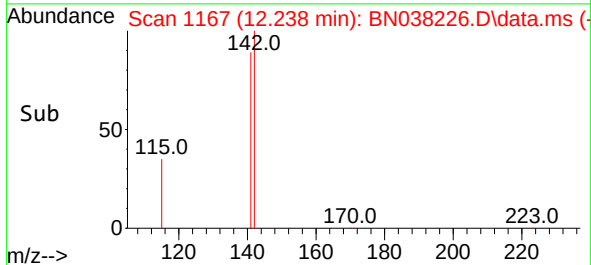
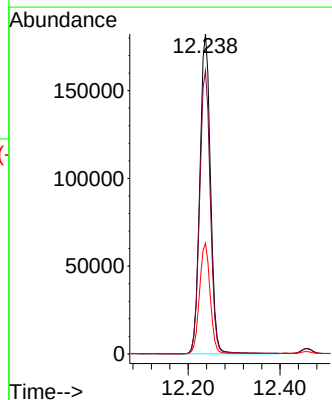
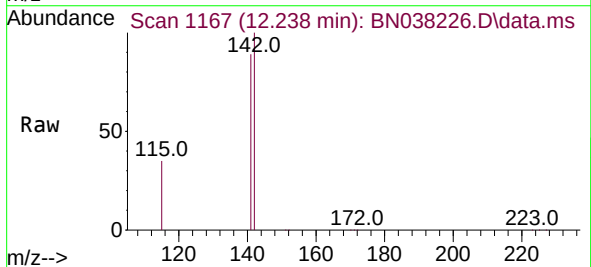
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

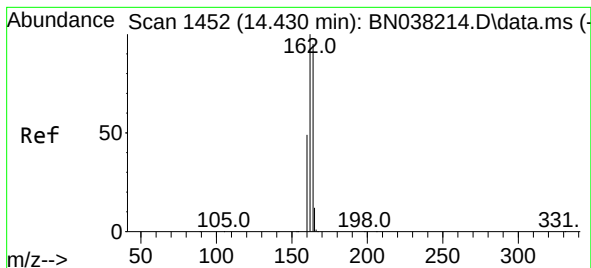
Tgt Ion:152 Resp: 11720
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1



#12
2-Methylnaphthalene
Concen: 6.022 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:142 Resp: 292224
Ion Ratio Lower Upper
142 100
141 88.5 70.9 106.3
115 34.6 27.7 41.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.430 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOIL

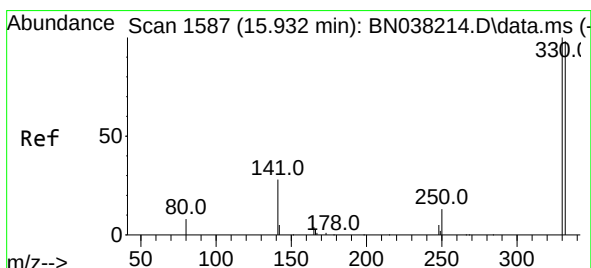
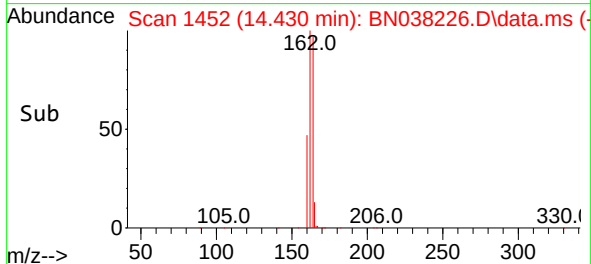
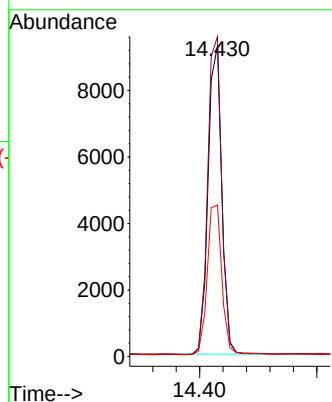
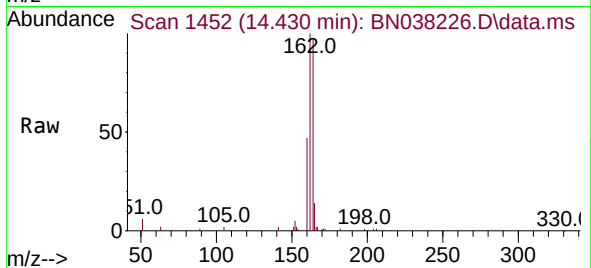
Tgt Ion:164 Resp: 15074

Ion Ratio Lower Upper

164 100

162 102.9 83.8 125.8

160 48.7 41.6 62.4



#14

2,4,6-Tribromophenol

Concen: 0.407 ng

RT: 15.920 min Scan# 1586

Delta R.T. -0.012 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

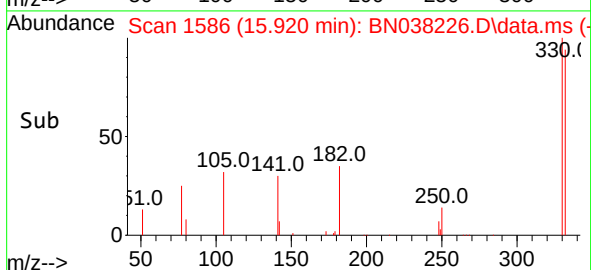
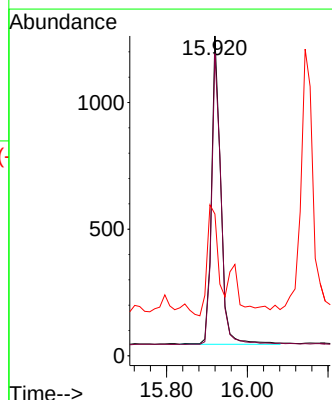
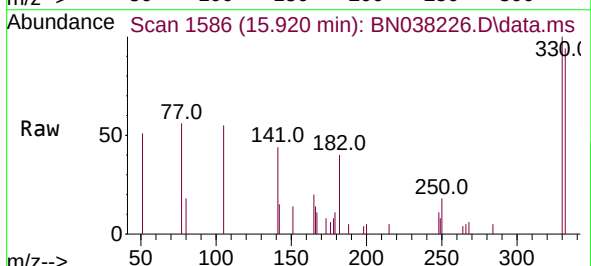
Tgt Ion:330 Resp: 1932

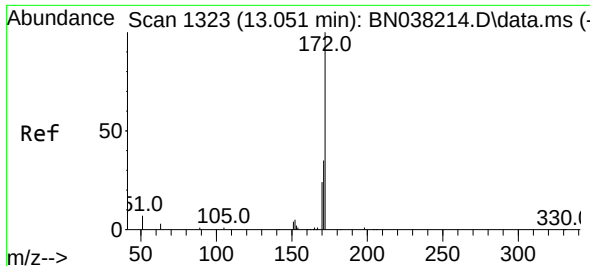
Ion Ratio Lower Upper

330 100

332 95.7 77.8 116.6

141 43.2 33.0 49.4

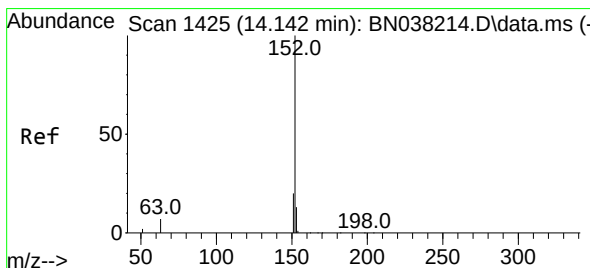
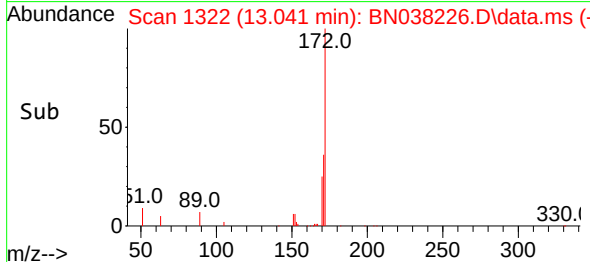
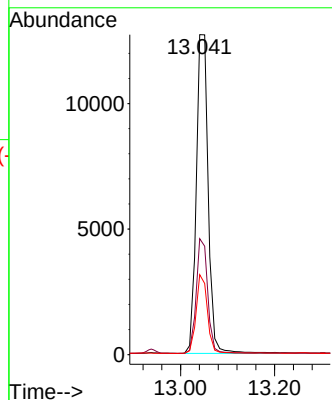
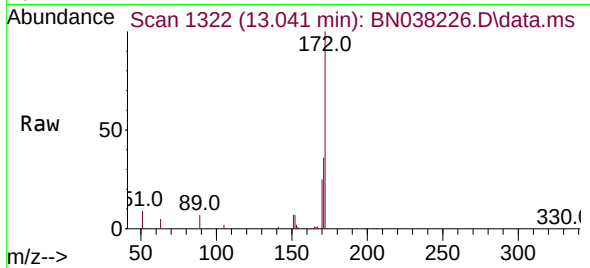




#15
 2-Fluorobiphenyl
 Concen: 0.364 ng
 RT: 13.041 min Scan# 1323
 Delta R.T. -0.010 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

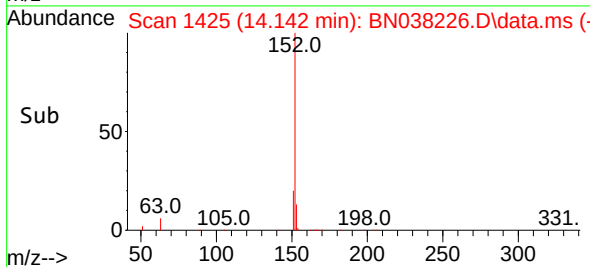
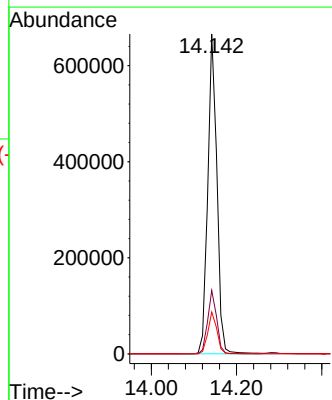
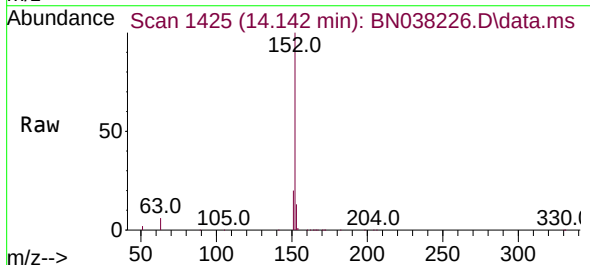
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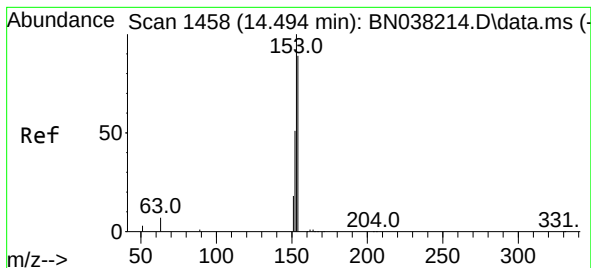
Tgt Ion:172	Resp:	21176
Ion Ratio	Lower	Upper
172	100	
171	36.2	28.1 42.1
170	25.0	19.1 28.7



#16
 Acenaphthylene
 Concen: 14.693 ng
 RT: 14.142 min Scan# 1425
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Tgt Ion:152	Resp:	990394
Ion Ratio	Lower	Upper
152	100	
151	19.7	15.6 23.4
153	13.1	10.6 15.8





#17

Acenaphthene

Concen: 8.279 ng

RT: 14.484 min Scan# 1458

Delta R.T. -0.011 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOIL

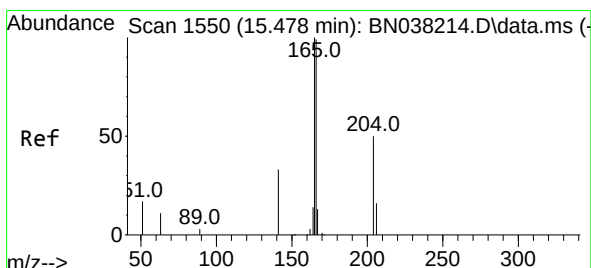
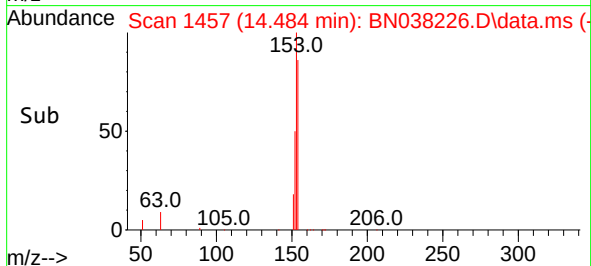
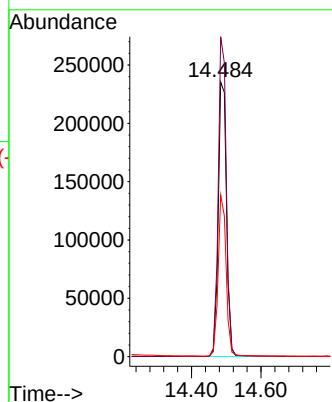
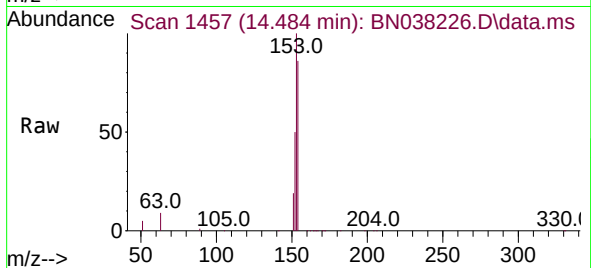
Tgt Ion:154 Resp: 389025

Ion Ratio Lower Upper

154 100

153 114.1 91.1 136.7

152 56.7 48.2 72.2



#18

Fluorene

Concen: 1.902 ng

RT: 15.478 min Scan# 1550

Delta R.T. 0.000 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

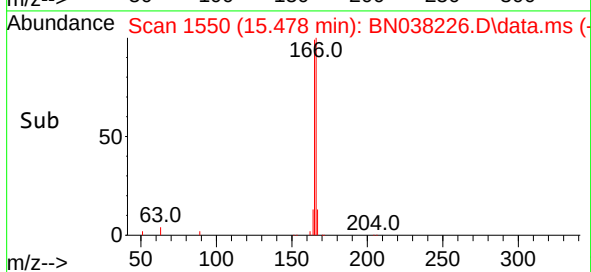
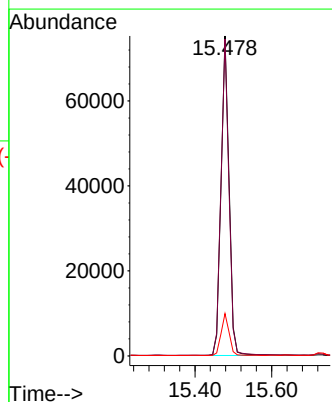
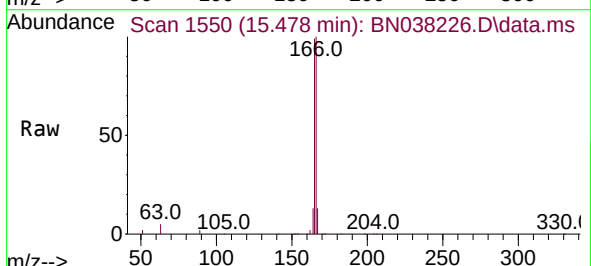
Tgt Ion:166 Resp: 115670

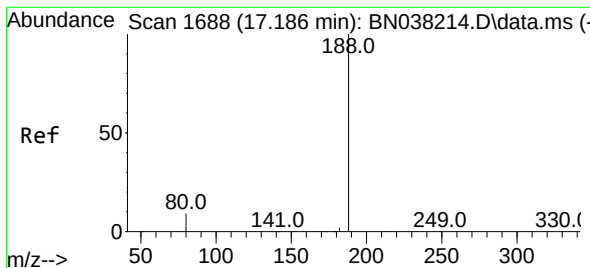
Ion Ratio Lower Upper

166 100

165 100.0 78.7 118.1

167 13.3 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOIL

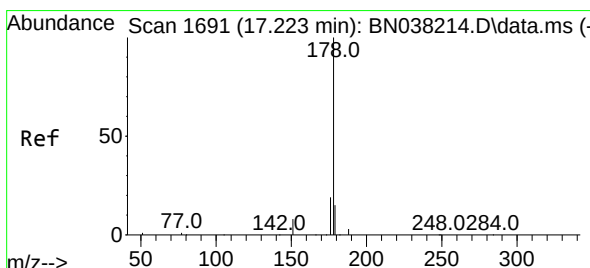
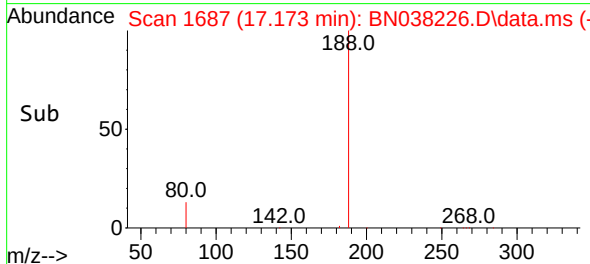
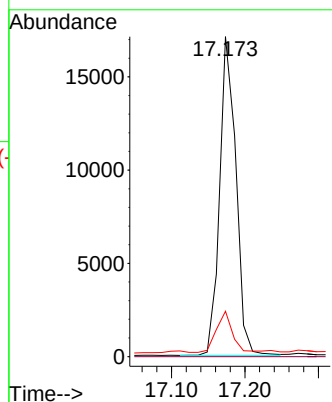
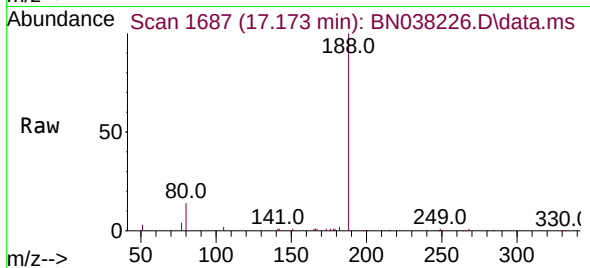
Tgt Ion:188 Resp: 26427

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 7.7 11.5#



#25

Phenanthrene

Concen: 17.487 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

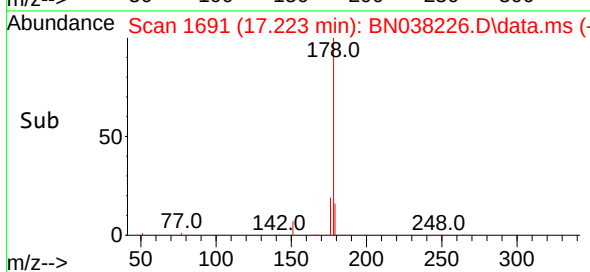
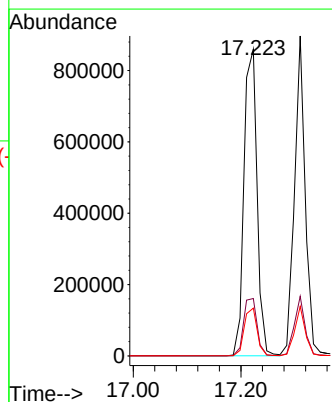
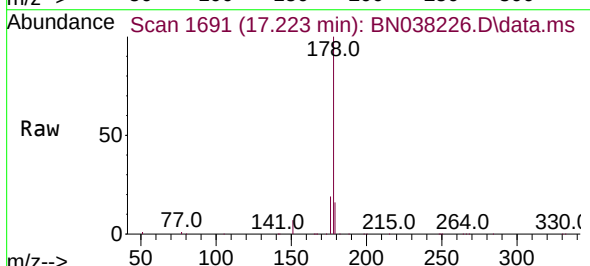
Tgt Ion:178 Resp: 1450718

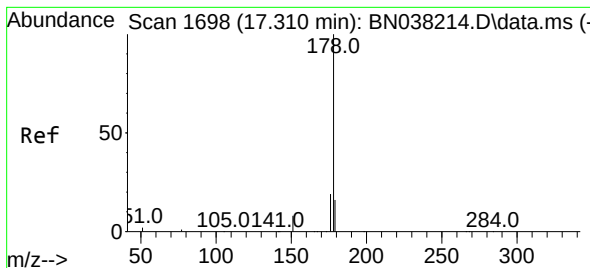
Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.4 12.0 18.0

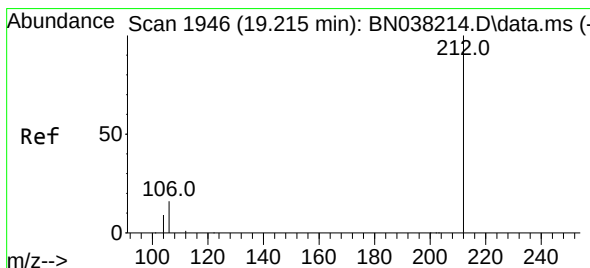
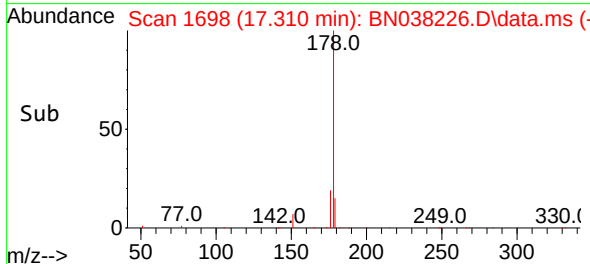
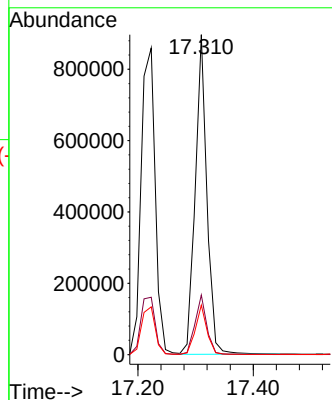
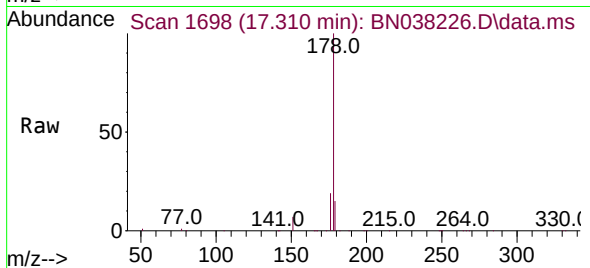




#26
 Anthracene
 Concen: 17.720 ng
 RT: 17.310 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

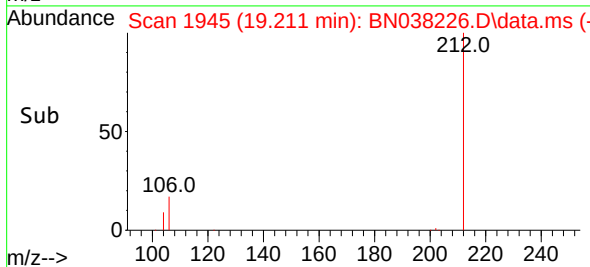
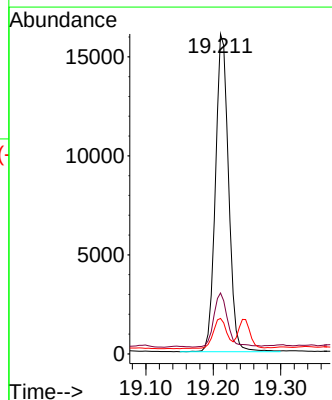
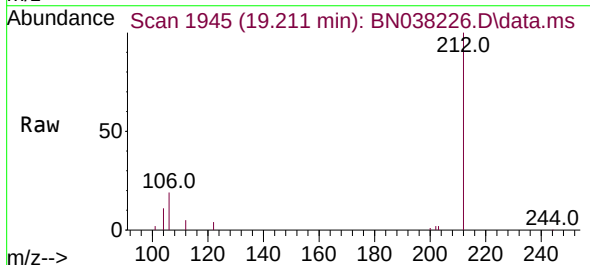
Instrument :
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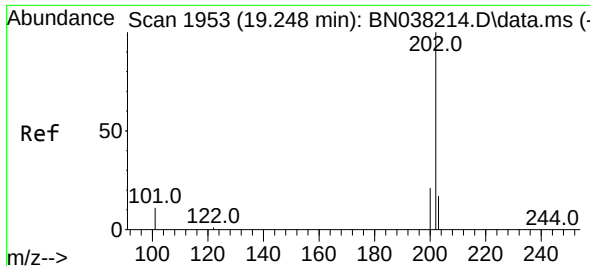
Tgt Ion:178 Resp: 1254292
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.7 22.1
 179 15.4 12.3 18.5



#27
 Fluoranthene-d10
 Concen: 0.380 ng
 RT: 19.211 min Scan# 1945
 Delta R.T. -0.005 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Tgt Ion:212 Resp: 21765
 Ion Ratio Lower Upper
 212 100
 106 18.0 12.7 19.1
 104 10.1 7.3 10.9

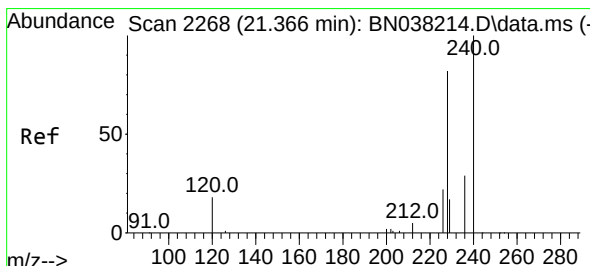
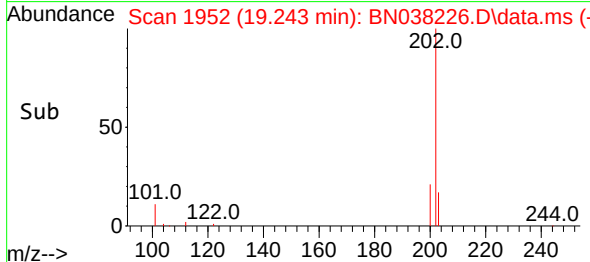
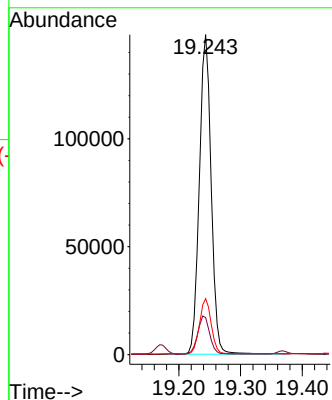
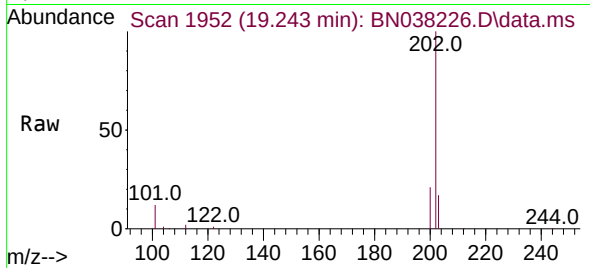




#28
Fluoranthene
Concen: 2.450 ng
RT: 19.243 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

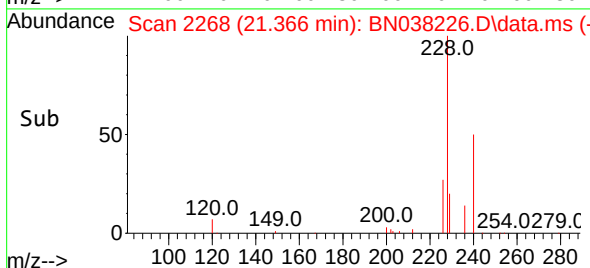
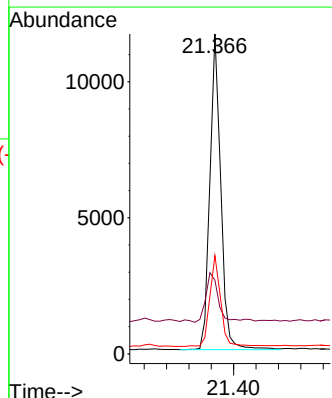
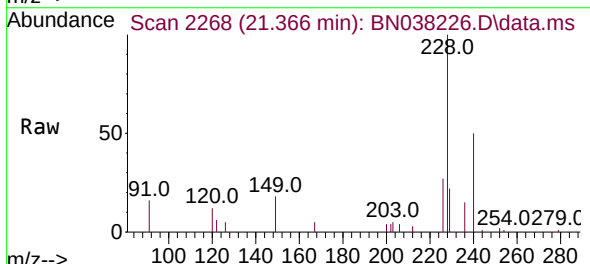
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

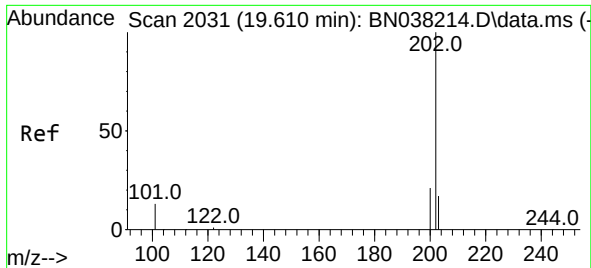
Tgt Ion:202 Resp: 195932
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.6
203 17.0 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:240 Resp: 15733
Ion Ratio Lower Upper
240 100
120 23.0 18.1 27.1
236 30.7 24.2 36.4

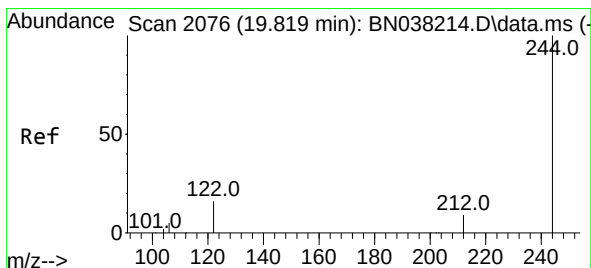
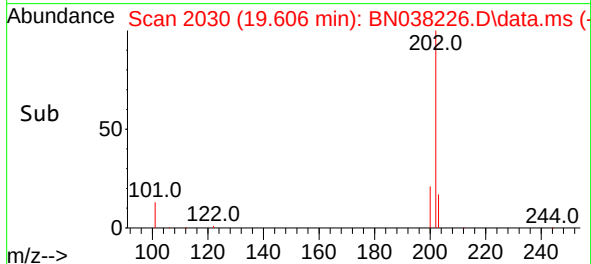
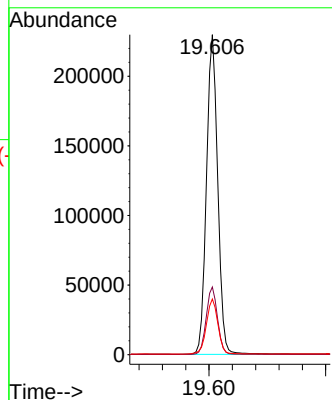
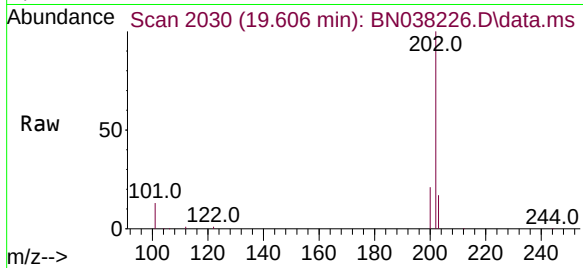




#30
 Pyrene
 Concen: 3.895 ng
 RT: 19.606 min Scan# 2031
 Delta R.T. -0.005 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

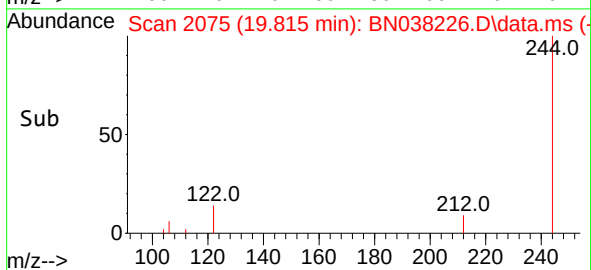
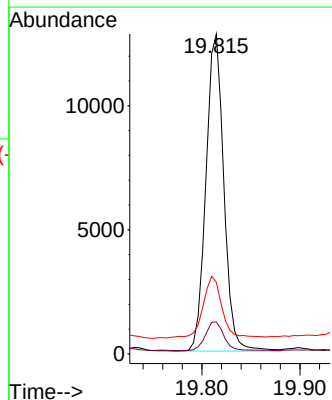
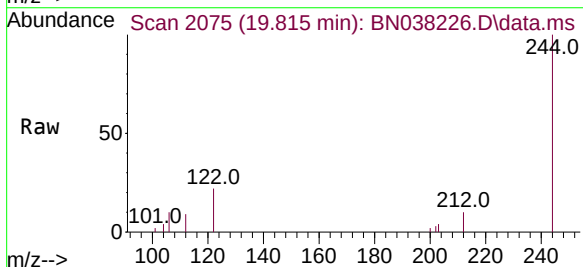
Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-PAH-SOIL

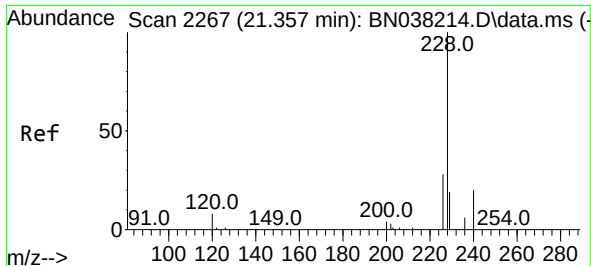
Tgt Ion:202 Resp: 306052
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.8 25.2
 203 17.7 14.4 21.6



#31
 Terphenyl-d14
 Concen: 0.445 ng
 RT: 19.815 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Tgt Ion:244 Resp: 16178
 Ion Ratio Lower Upper
 244 100
 212 10.0 7.7 11.5
 122 22.4 13.6 20.4#

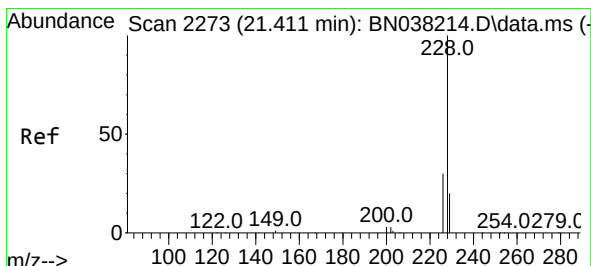
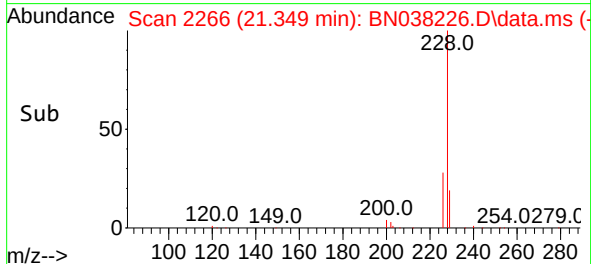
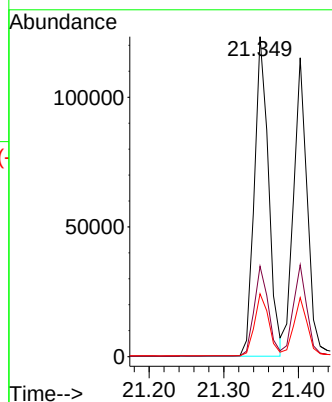
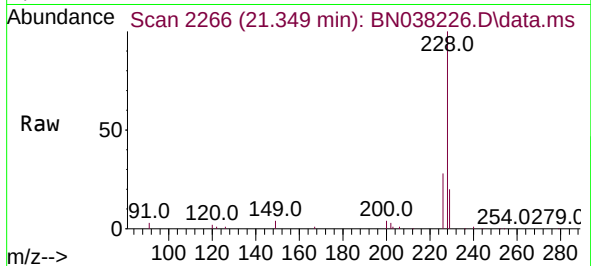




#32
Benzo(a)anthracene
Concen: 3.047 ng
RT: 21.349 min Scan# 21349
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

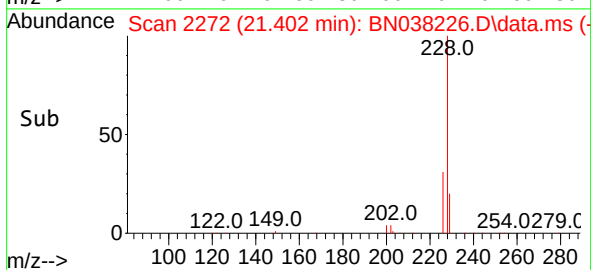
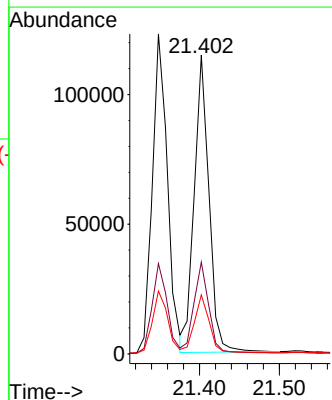
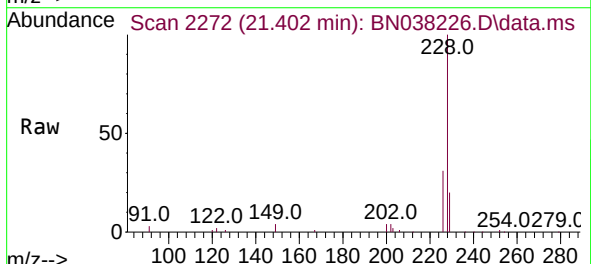
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

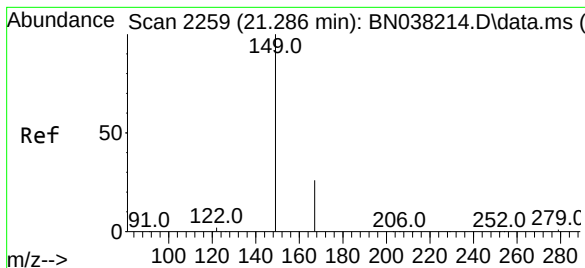
Tgt Ion:228 Resp: 162332
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.6 15.8 23.8



#33
Chrysene
Concen: 2.341 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:228 Resp: 147180
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 19.7 16.1 24.1

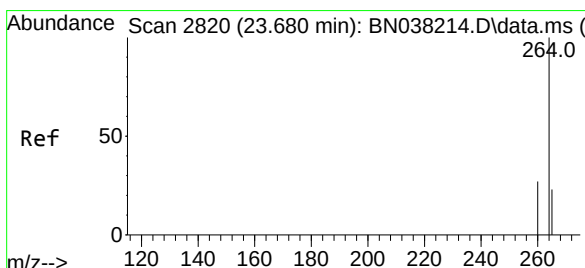
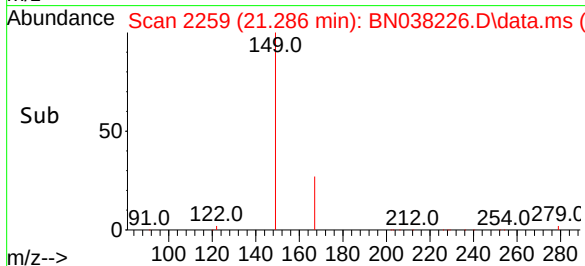
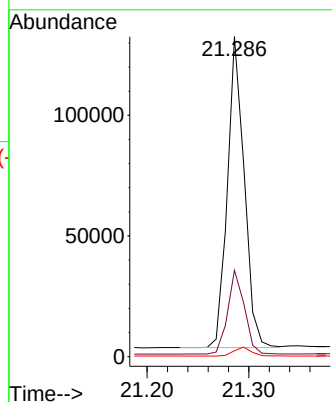
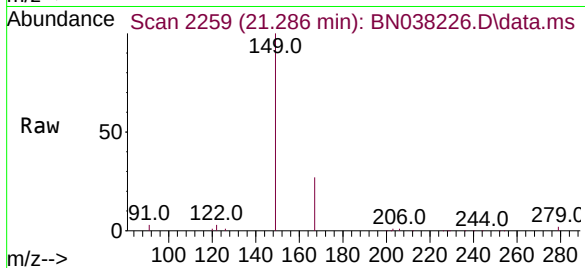




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 5.074 ng
 RT: 21.286 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

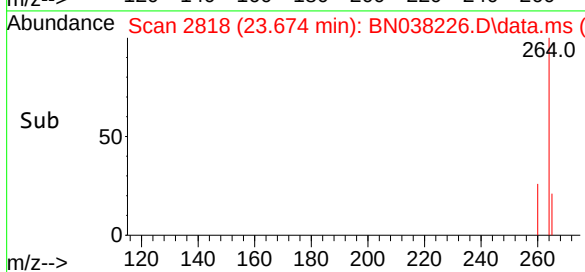
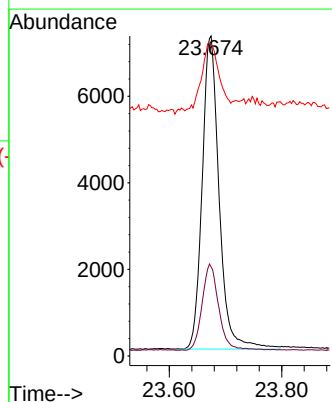
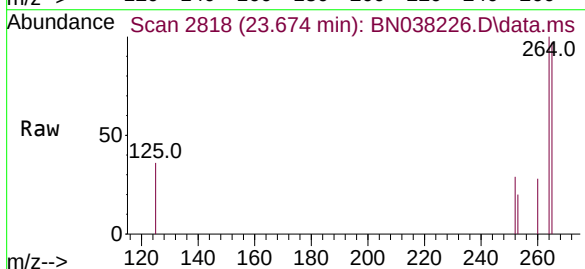
Instrument :
 BNA_N
 ClientSampleId :
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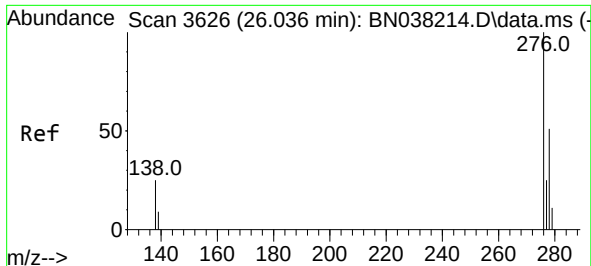
Tgt Ion:149 Resp: 148034
 Ion Ratio Lower Upper
 149 100
 167 26.6 20.7 31.1
 279 2.9 2.5 3.7



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.674 min Scan# 2818
 Delta R.T. -0.006 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

Tgt Ion:264 Resp: 15160
 Ion Ratio Lower Upper
 264 100
 260 27.8 21.7 32.5
 265 97.4 98.0 147.0#

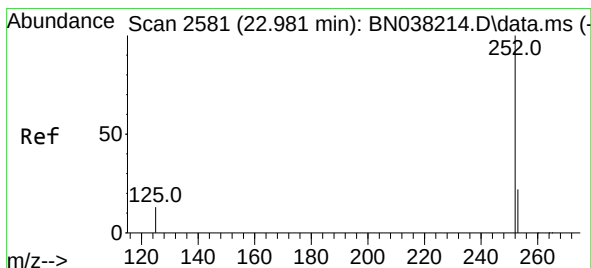
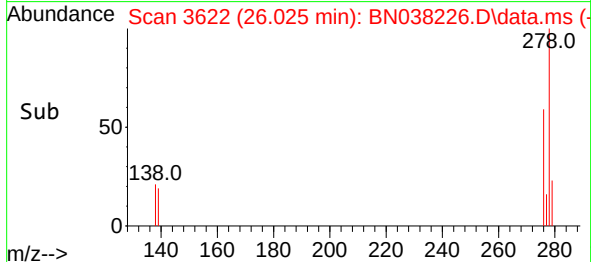
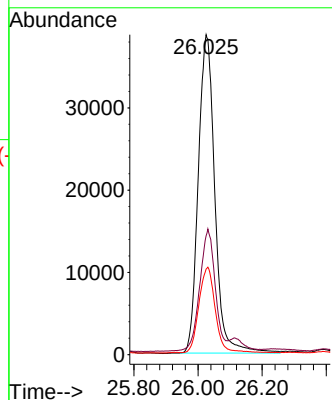
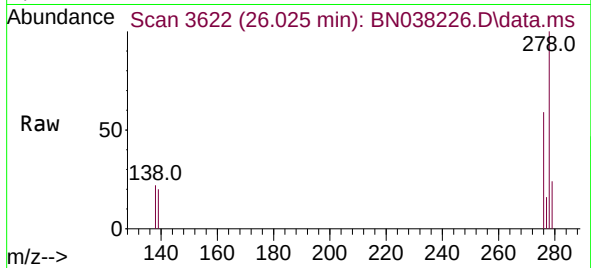




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.981 ng
RT: 26.025 min Scan# 3626
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

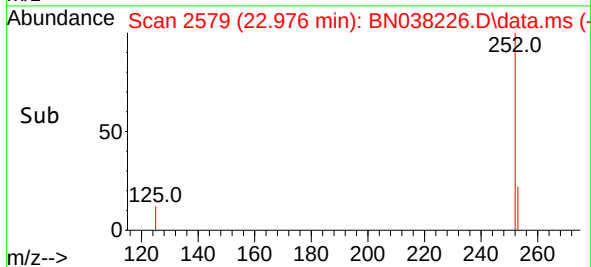
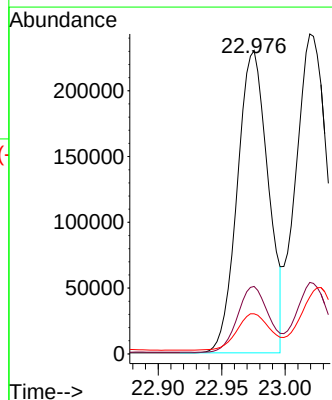
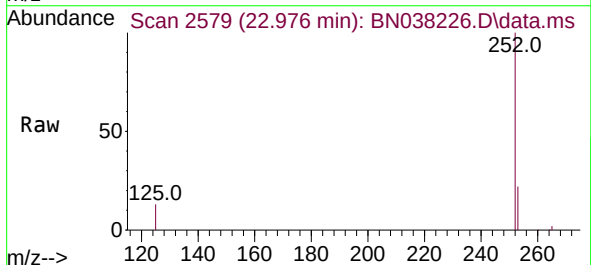
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

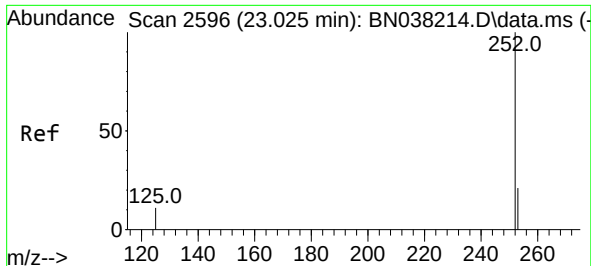
Tgt Ion:276 Resp: 138980
Ion Ratio Lower Upper
276 100
138 35.6 21.4 32.2#
277 25.9 19.1 28.7



#37
Benzo(b)fluoranthene
Concen: 6.244 ng
RT: 22.976 min Scan# 2579
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

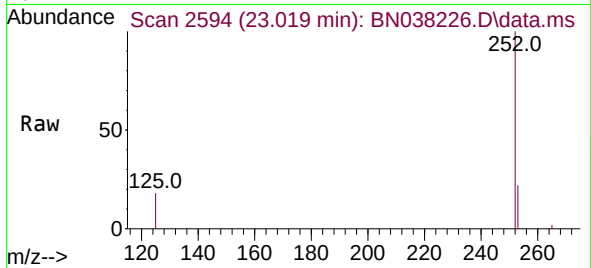
Tgt Ion:252 Resp: 388530
Ion Ratio Lower Upper
252 100
253 22.2 22.2 33.4#
125 13.2 18.0 27.0#



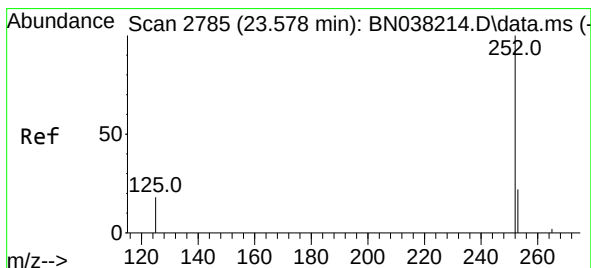
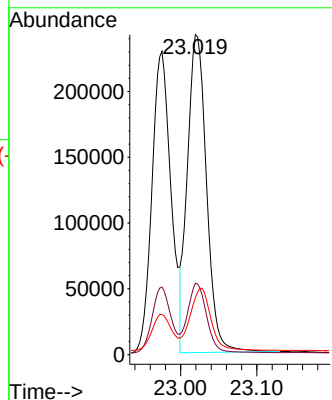


#38
Benzo(k)fluoranthene
Concen: 6.531 ng
RT: 23.019 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

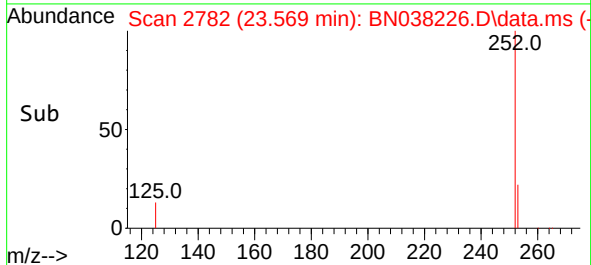
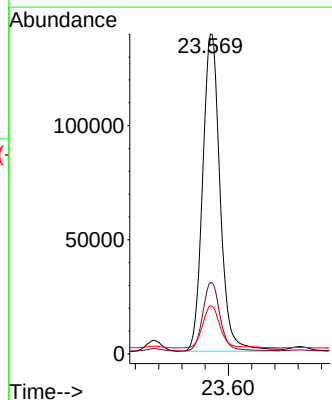
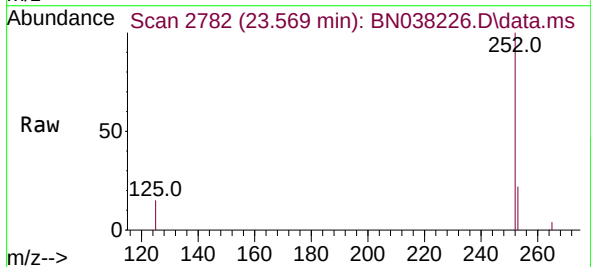


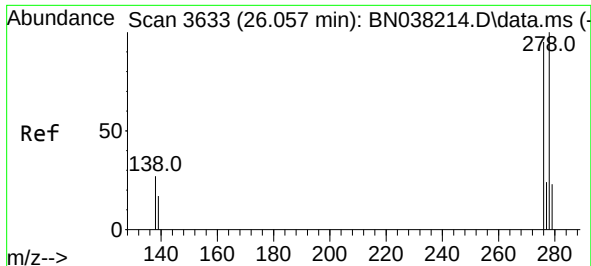
Tgt Ion:252 Resp: 422476
Ion Ratio Lower Upper
252 100
253 22.3 22.4 33.6#
125 17.8 17.5 26.3



#39
Benzo(a)pyrene
Concen: 5.560 ng
RT: 23.569 min Scan# 2782
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:252 Resp: 290001
Ion Ratio Lower Upper
252 100
253 22.3 25.3 37.9#
125 15.0 25.2 37.8#

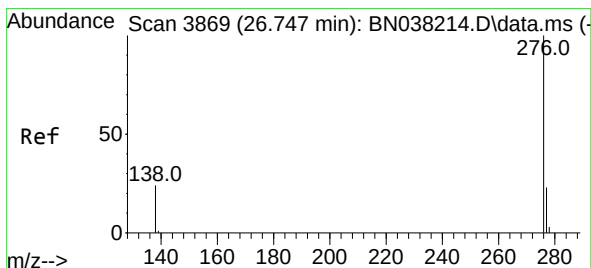
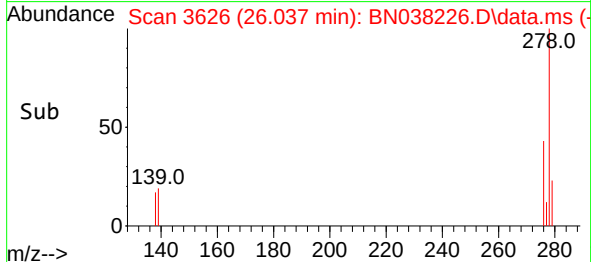
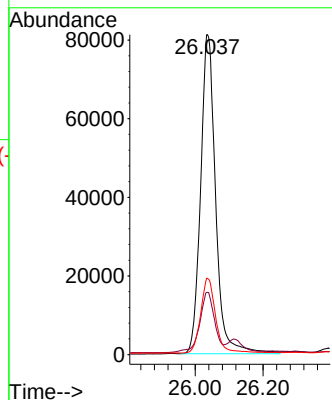
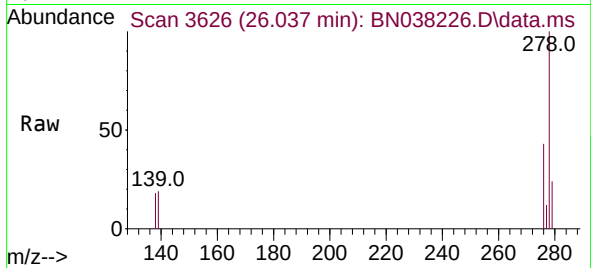




#40
Dibenzo(a,h)anthracene
Concen: 4.706 ng
RT: 26.037 min Scan# 3626
Delta R.T. -0.020 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

Tgt Ion:278 Resp: 249956
Ion Ratio Lower Upper
278 100
139 19.5 17.6 26.4
279 23.8 24.2 36.4#



#41
Benzo(g,h,i)perylene
Concen: 5.013 ng
RT: 26.735 min Scan# 3865
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:276 Resp: 318151
Ion Ratio Lower Upper
276 100
277 23.5 20.2 30.2
138 24.9 20.8 31.2

