

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)

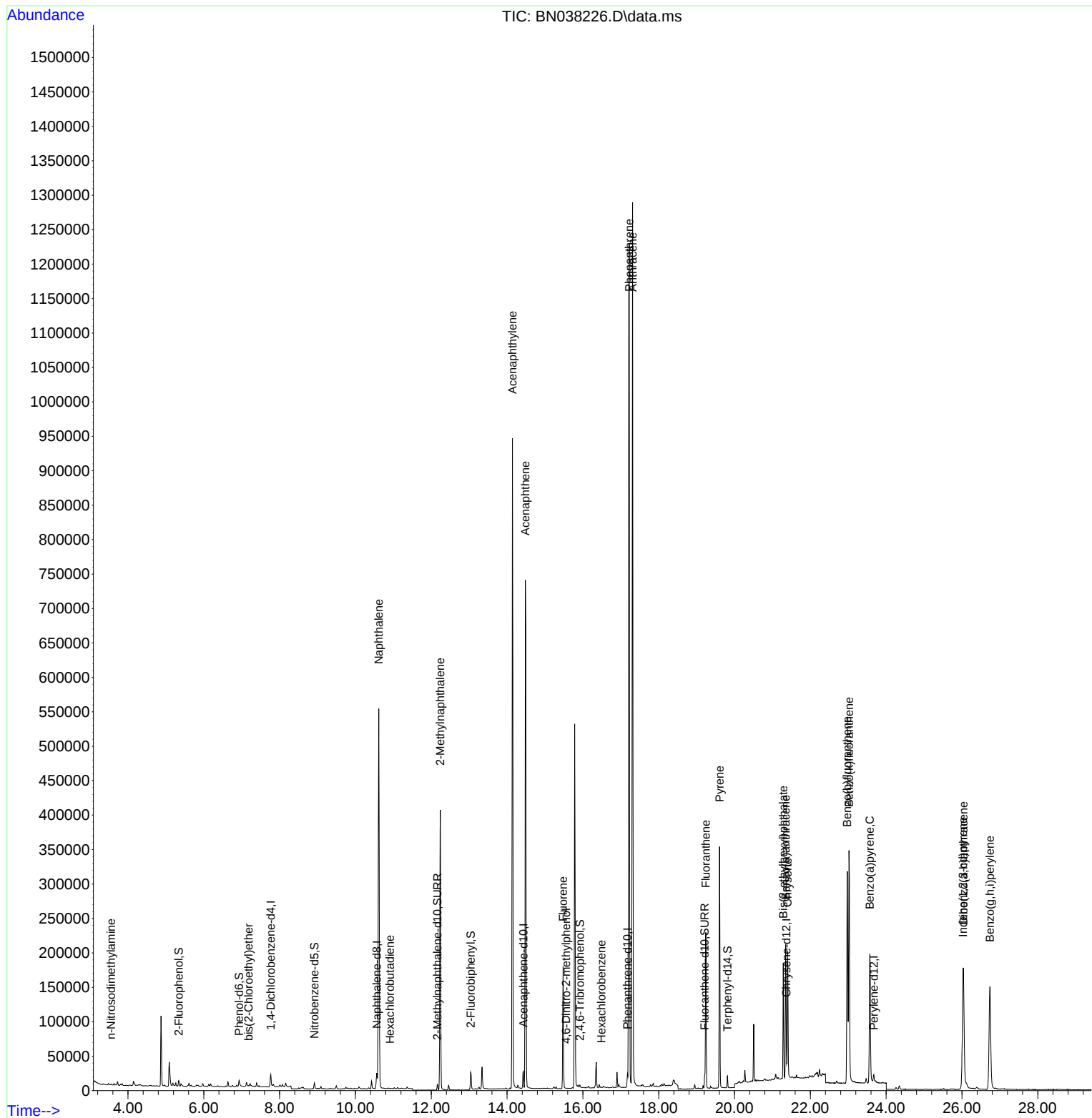
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8240	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	26555	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	15074	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	26427	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	15733	0.400	ng	0.00
35) Perylene-d12	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
3) n-Nitrosodimethylamine	3.550	42	292	0.027	ng	# 2
6) bis(2-Chloroethyl)ether	7.183	93	1190	0.052	ng	# 92
9) Naphthalene	10.616	128	707707	9.597	ng	# 99
10) Hexachlorobutadiene	10.915	225	375	0.030	ng	# 100
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
20) 4,6-Dinitro-2-methylph...	15.560	198	10	0.176	ng	# 1
22) Hexachlorobenzene	16.491	284	627	0.028	ng	# 83
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

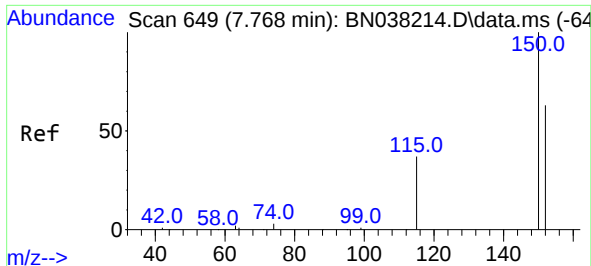
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038226.D
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HW1025-PT-PAH-SOIL

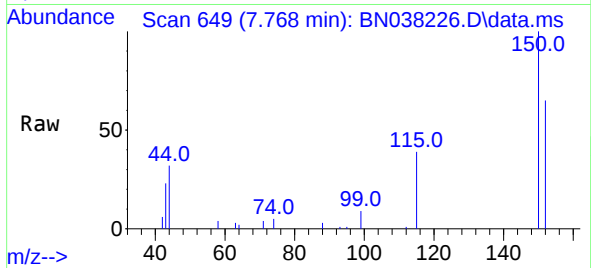
Quant Time: Dec 01 15:20:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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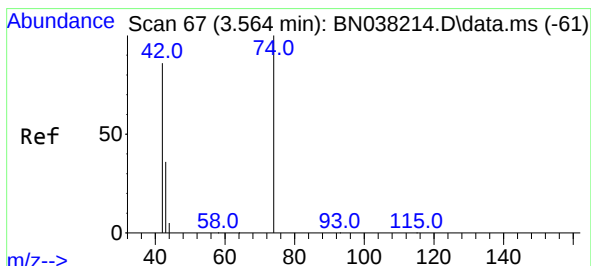
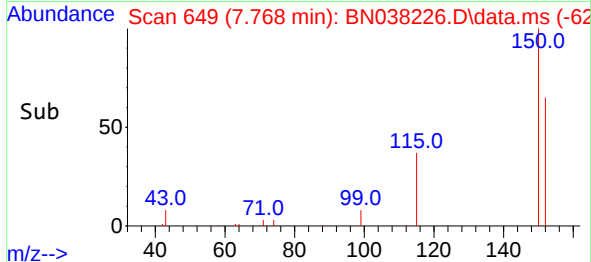
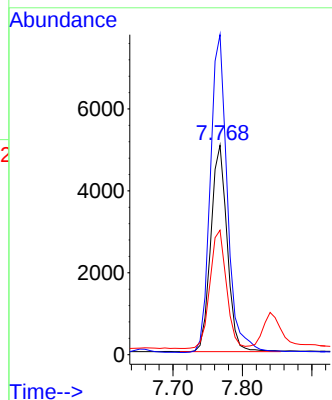


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

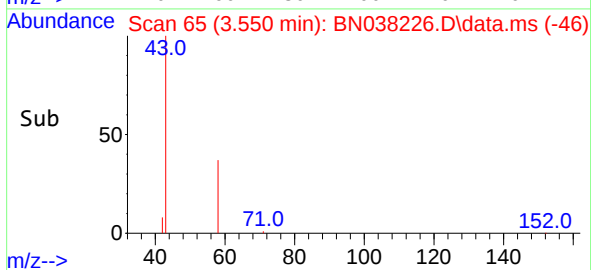
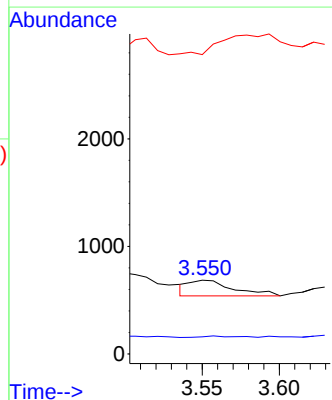
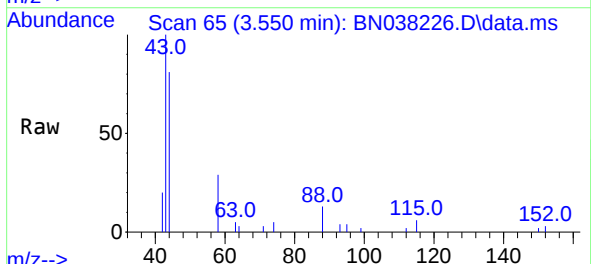


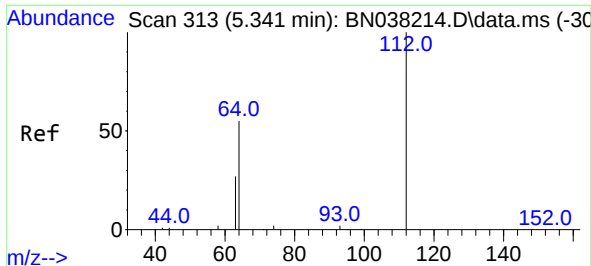
Tgt Ion:152 Resp: 8240
Ion Ratio Lower Upper
152 100
150 152.8 125.3 187.9
115 59.4 49.0 73.4



#3
n-Nitrosodimethylamine
Concen: 0.027 ng
RT: 3.550 min Scan# 65
Delta R.T. -0.014 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion: 42 Resp: 292
Ion Ratio Lower Upper
42 100
74 4.8 96.2 144.2#
44 0.0 8.0 12.0#

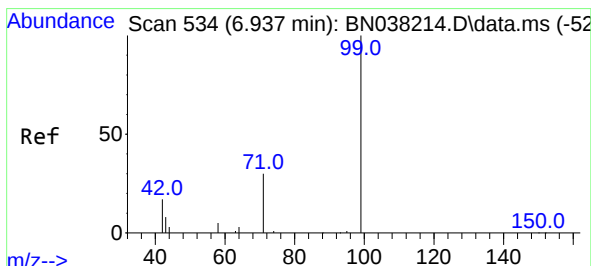
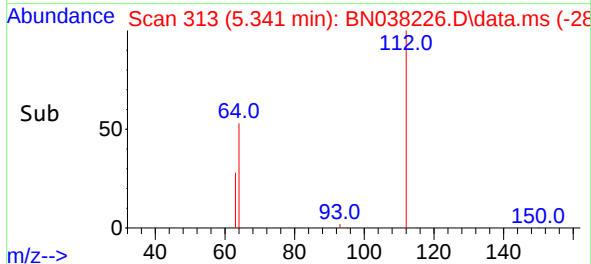
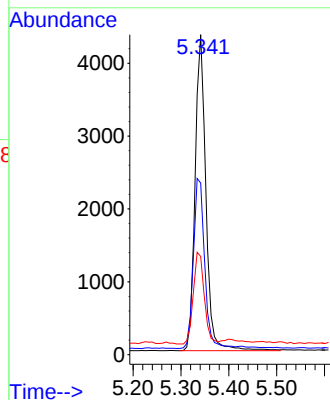
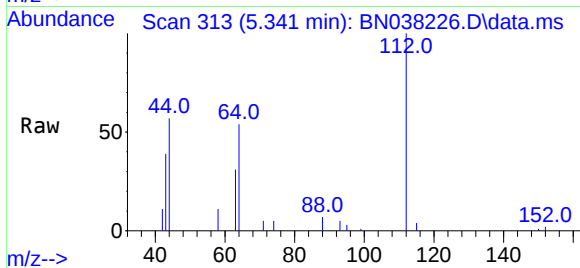




#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.341 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

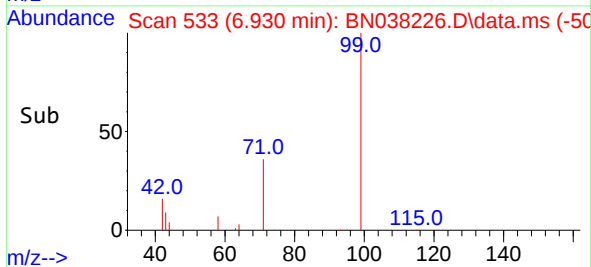
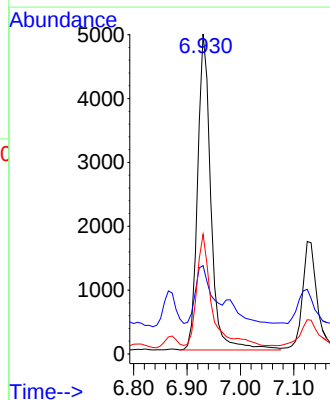
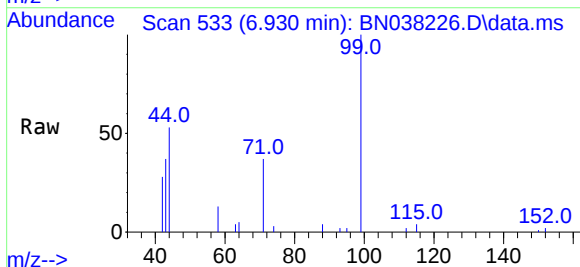
Instrument :
BNA_N
ClientSampleId :
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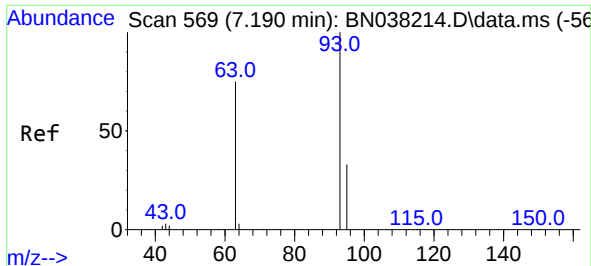
Tgt Ion:112 Resp: 6825
Ion Ratio Lower Upper
112 100
64 55.9 45.0 67.4
63 29.4 23.2 34.8



#5
Phenol-d6
Concen: 0.355 ng
RT: 6.930 min Scan# 533
Delta R.T. -0.007 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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#

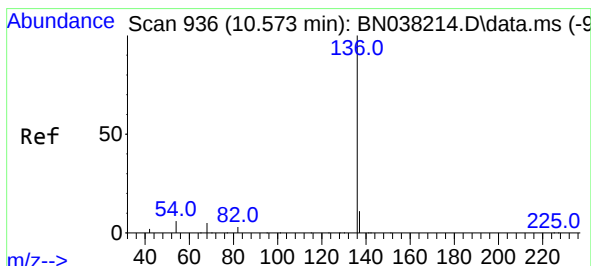
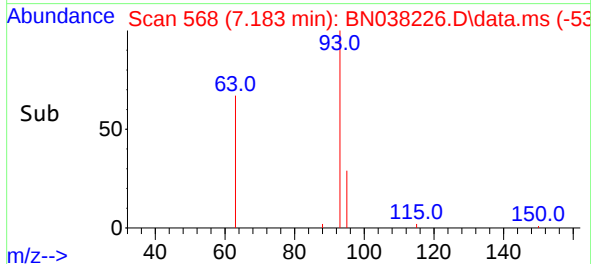
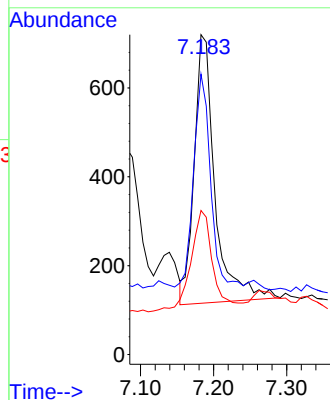
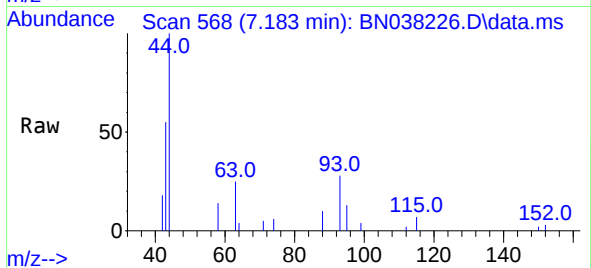




#6
bis(2-Chloroethyl)ether
Concen: 0.052 ng
RT: 7.183 min Scan# 50
Delta R.T. -0.007 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

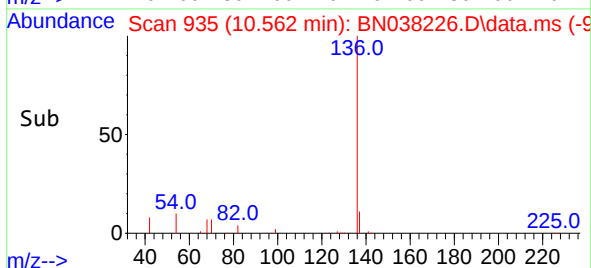
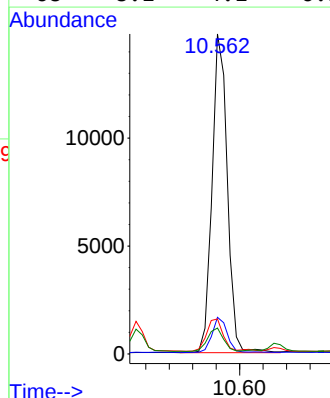
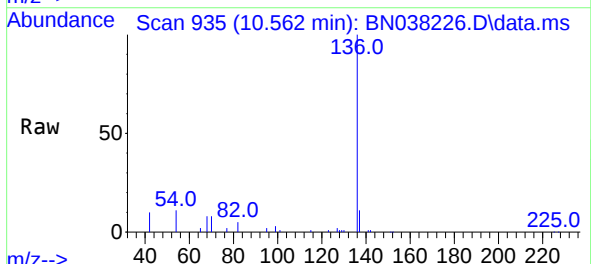
Instrument :
BNA_N
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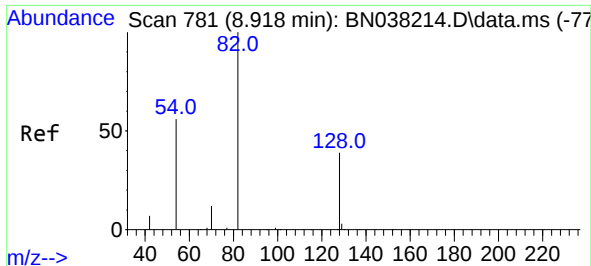
Tgt Ion: 93 Resp: 1190
Ion Ratio Lower Upper
93 100
63 68.7 58.1 87.1
95 41.0 25.1 37.7#



#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#

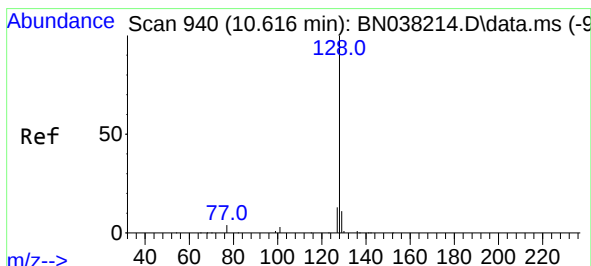
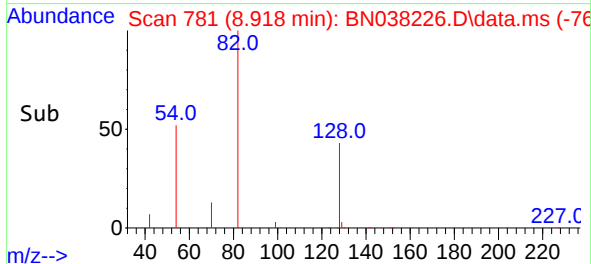
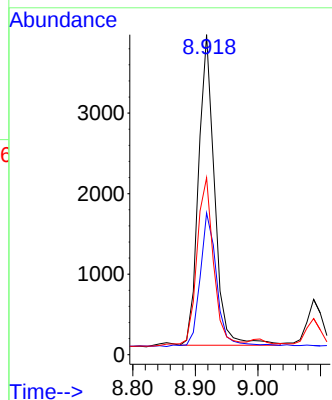
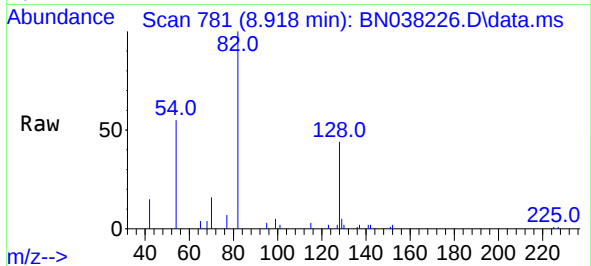




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

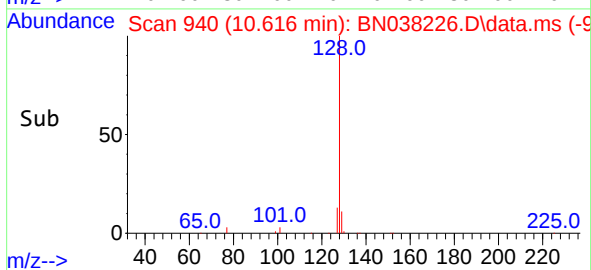
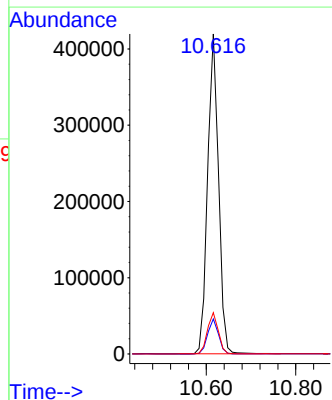
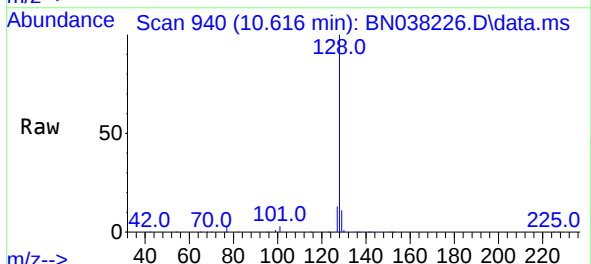
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

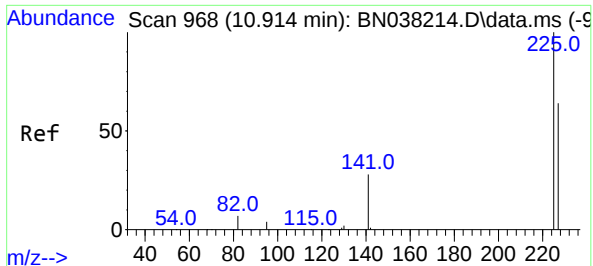
Tgt Ion: 82 Resp: 6893
Ion Ratio Lower Upper
82 100
128 44.3 32.6 48.8
54 55.3 45.4 68.0



#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

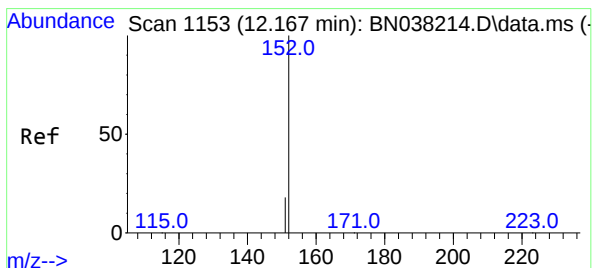
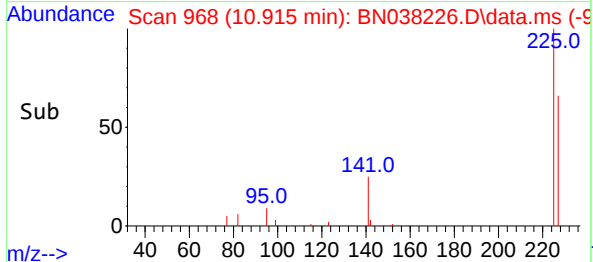
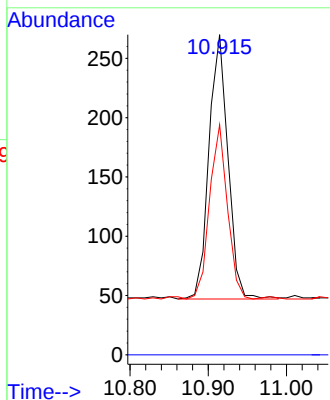
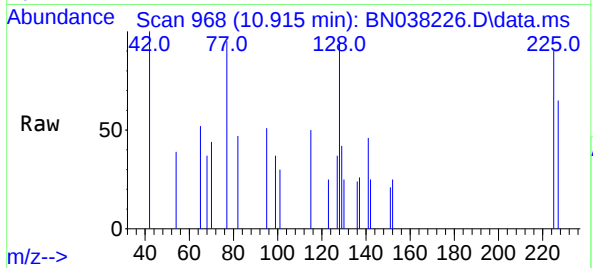




#10
Hexachlorobutadiene
Concen: 0.030 ng
RT: 10.915 min Scan# 90
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

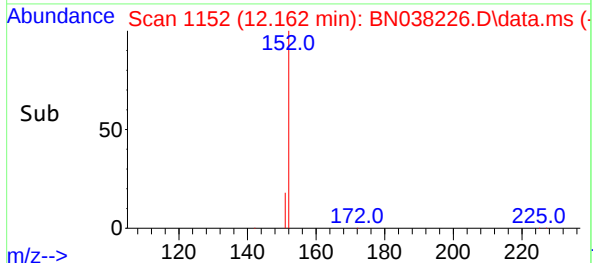
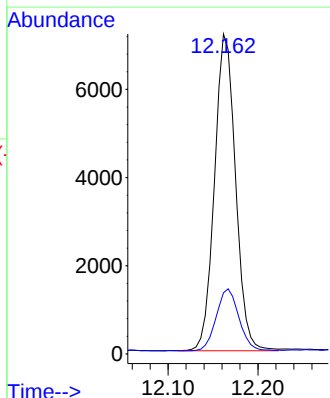
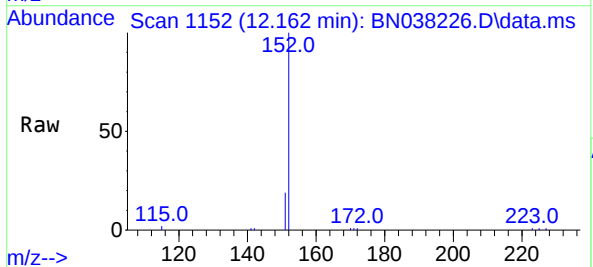
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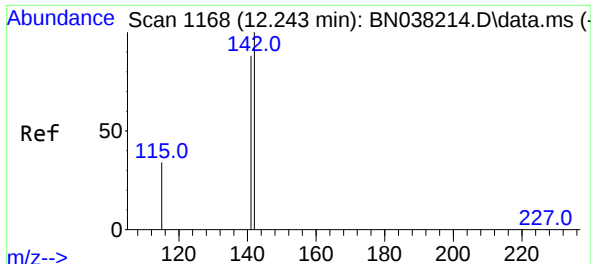
Tgt Ion:225	Resp:	375
Ion	Ratio	Lower Upper
225	100	
223	0.0	0.0 0.0
227	62.9	50.5 75.7



#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

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

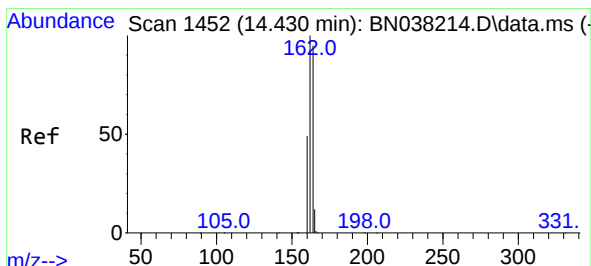
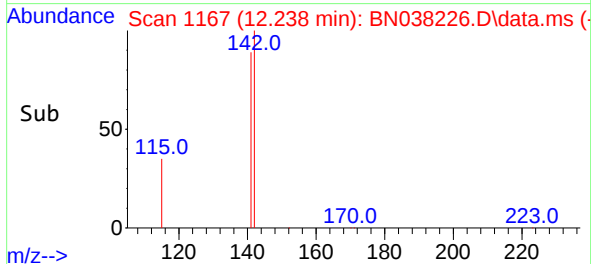
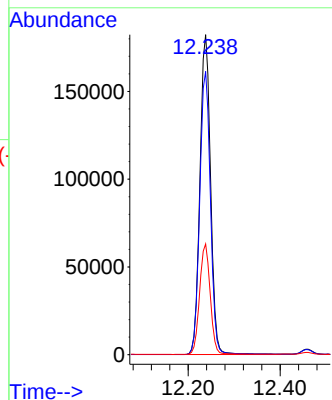
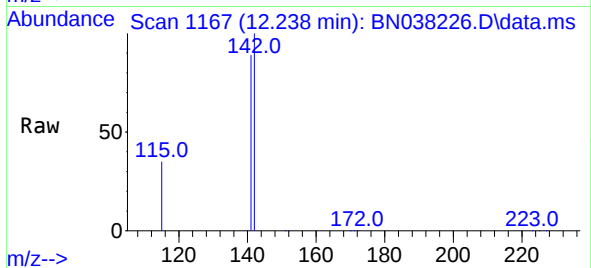




#12
2-Methylnaphthalene
Concen: 6.022 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

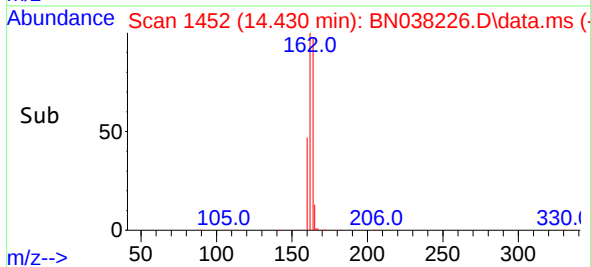
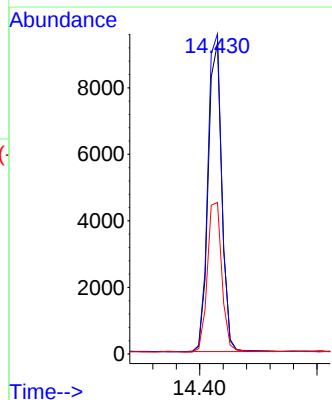
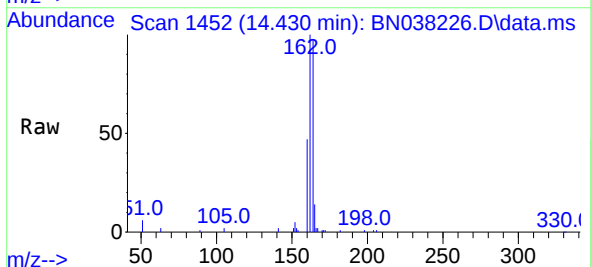
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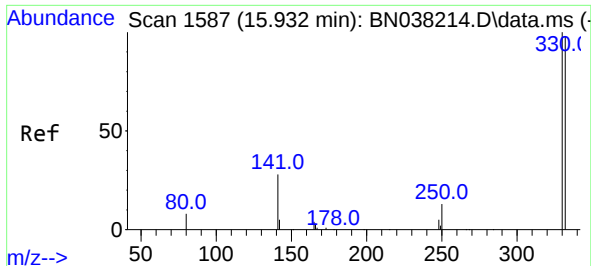
Tgt Ion:142 Resp: 292224
Ion Ratio Lower Upper
142 100
141 88.5 70.9 106.3
115 34.6 27.7 41.5



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

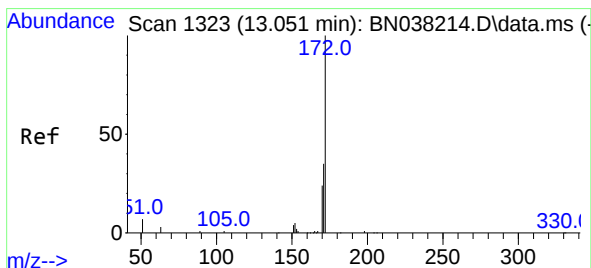
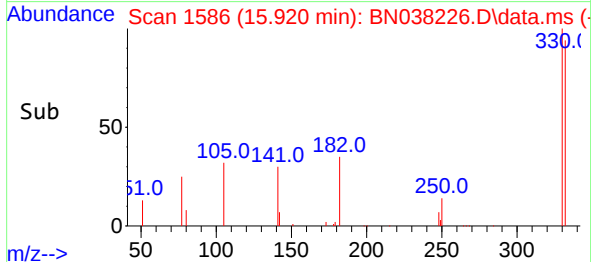
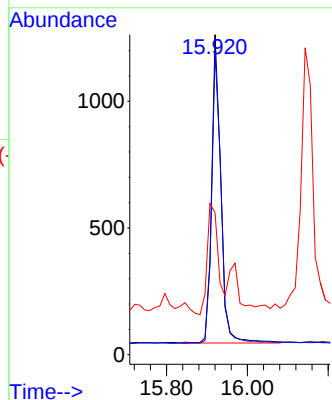
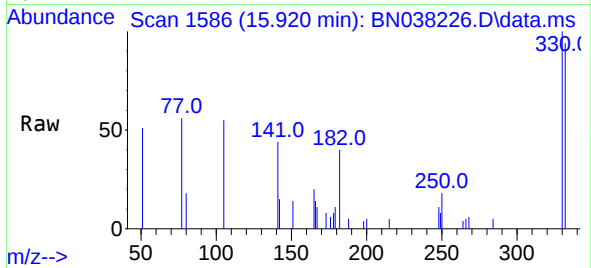




#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

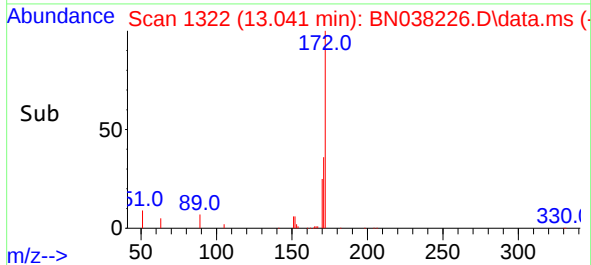
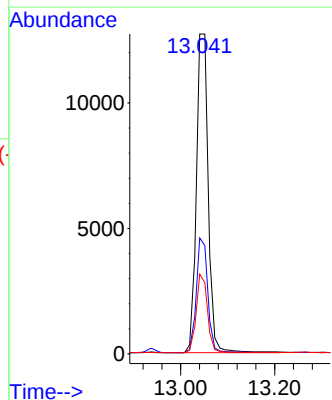
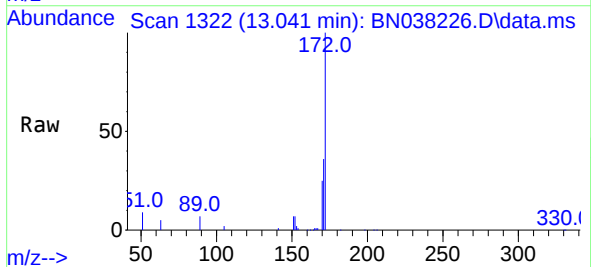
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HW1025-PT-PAH-SOIL

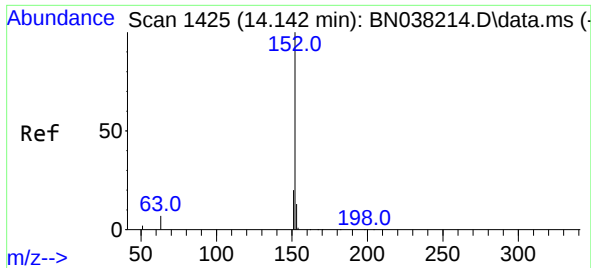
Tgt Ion:330 Resp: 1932
Ion Ratio Lower Upper
330 100
332 95.7 77.8 116.6
141 43.2 33.0 49.4



#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 13.041 min Scan# 1322
Delta R.T. -0.010 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

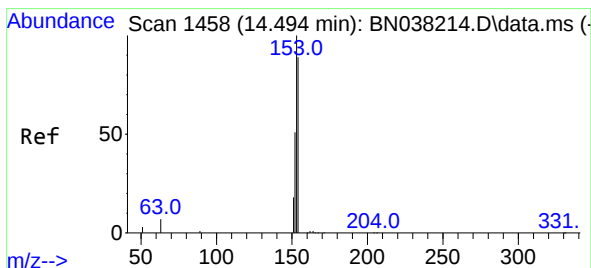
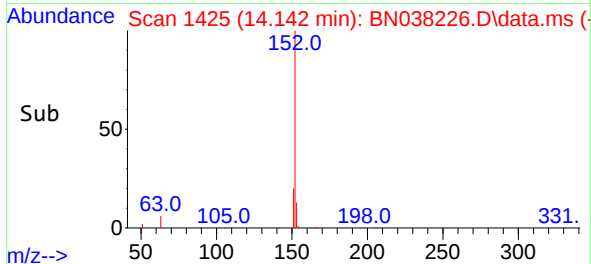
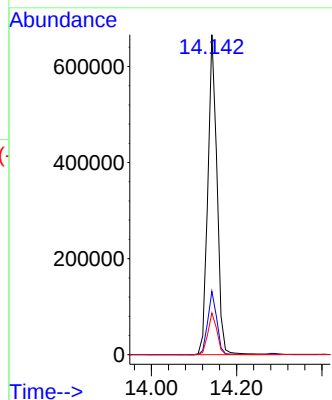
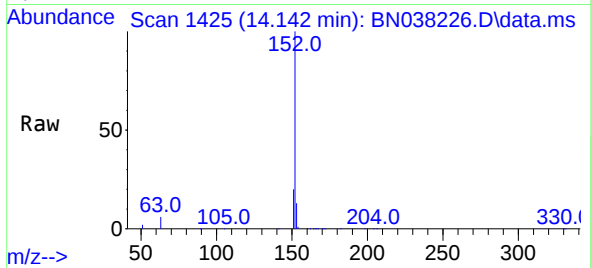




#16
Acenaphthylene
Concen: 14.693 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

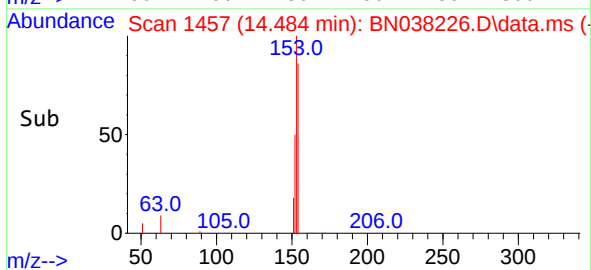
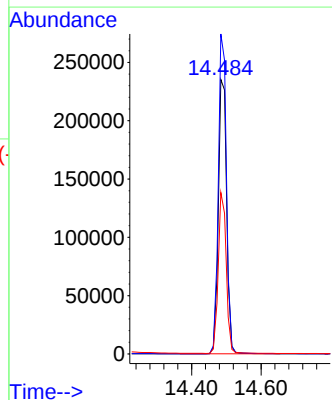
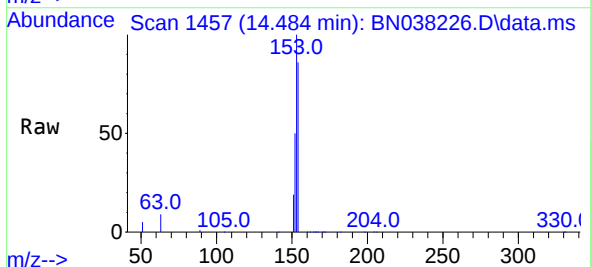
Instrument :
BNA_N
ClientSampleId :
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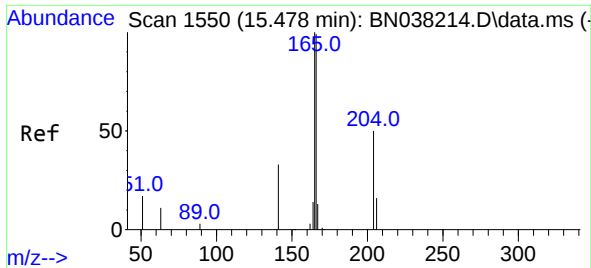
Tgt Ion:152 Resp: 990394
Ion Ratio Lower Upper
152 100
151 19.7 15.6 23.4
153 13.1 10.6 15.8



#17
Acenaphthene
Concen: 8.279 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

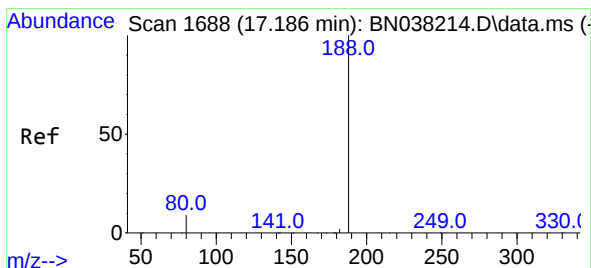
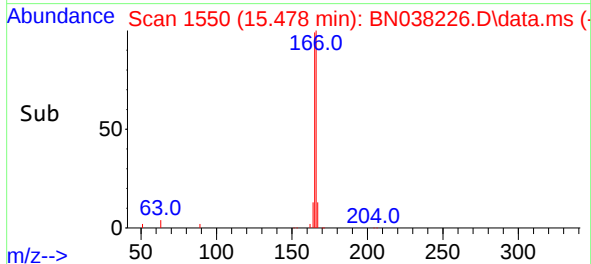
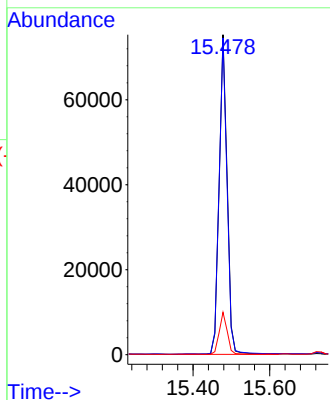
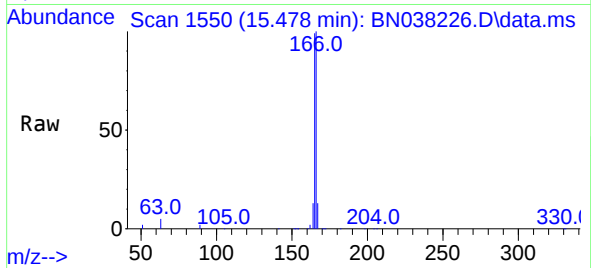




#18
Fluorene
Concen: 1.902 ng
RT: 15.478 min Scan# 115670
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

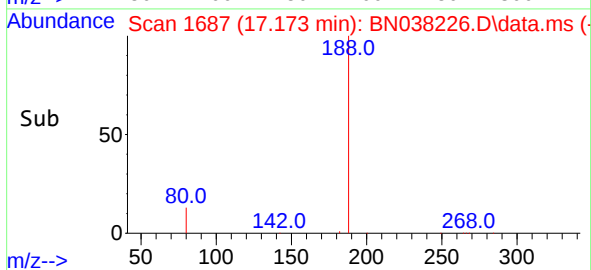
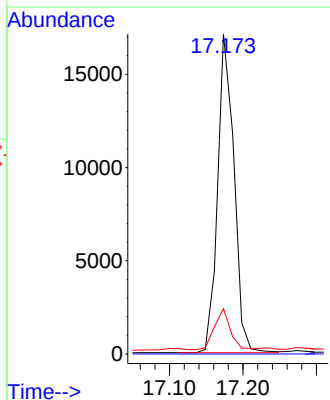
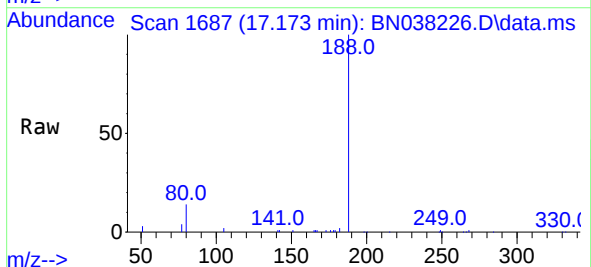
Instrument :
BNA_N
ClientSampleId :
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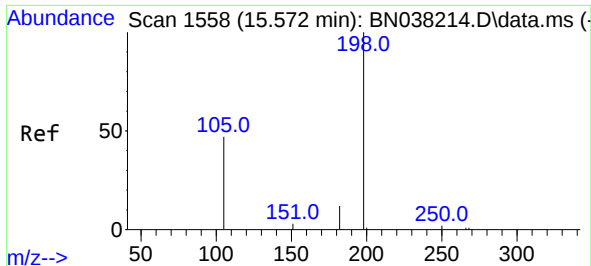
Tgt Ion:166 Resp: 115670
Ion Ratio Lower Upper
166 100
165 100.0 78.7 118.1
167 13.3 10.9 16.3



#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

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#

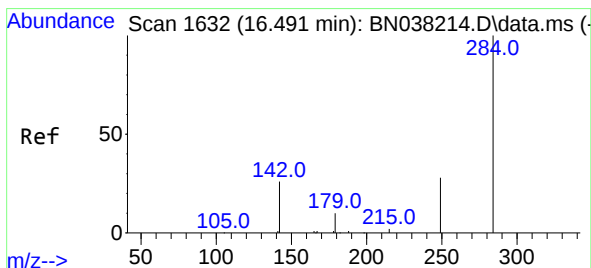
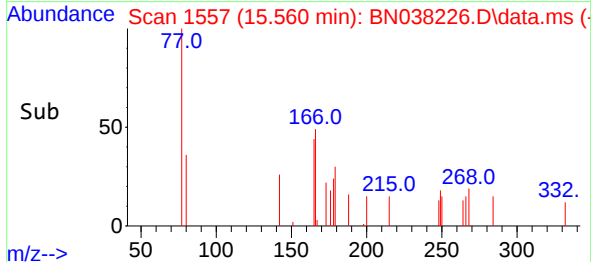
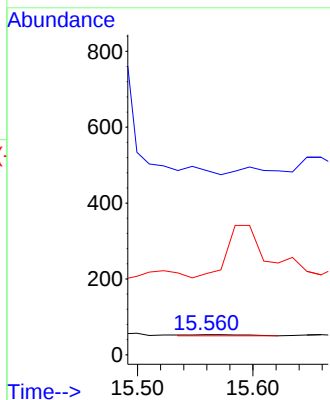
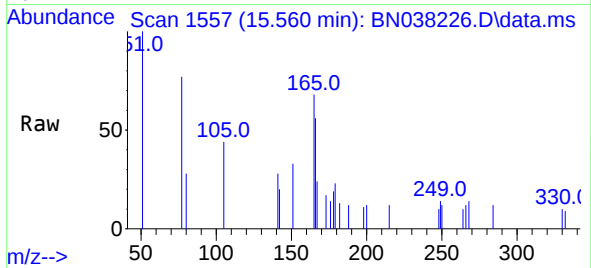




#20
4,6-Dinitro-2-methylphenol
Concen: 0.176 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

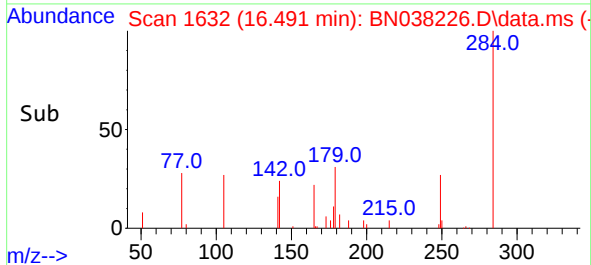
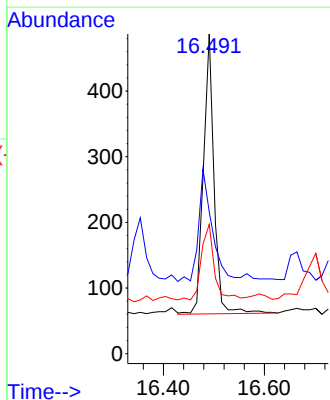
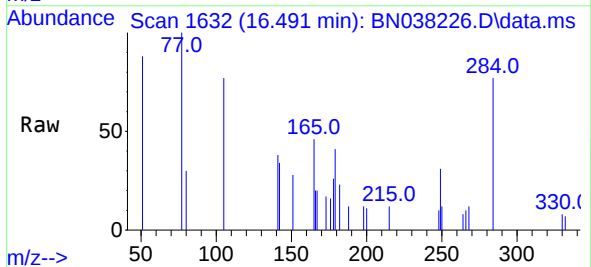
Instrument :
BNA_N
ClientSampleId :
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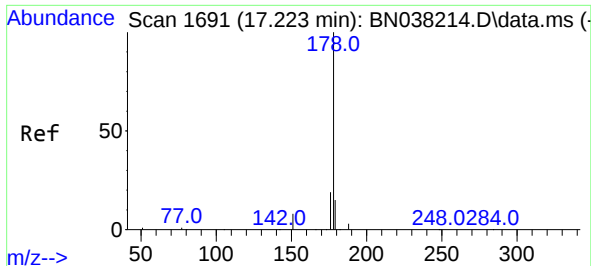
Tgt Ion:198 Resp: 10
Ion Ratio Lower Upper
198 100
51 917.0 205.1 307.7#
105 403.8 61.6 92.4#



#22
Hexachlorobenzene
Concen: 0.028 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:284 Resp: 627
Ion Ratio Lower Upper
284 100
142 50.6 30.5 45.7#
249 36.0 23.8 35.8#

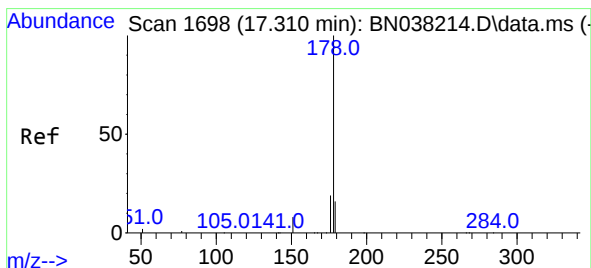
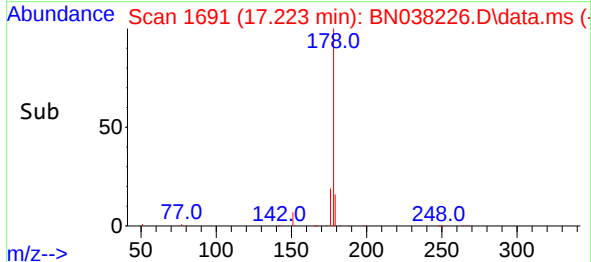
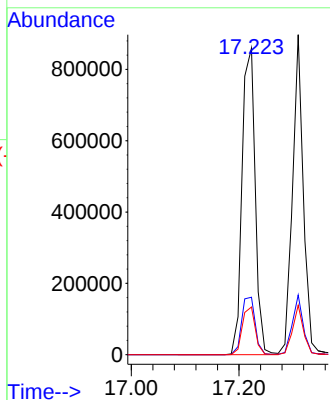
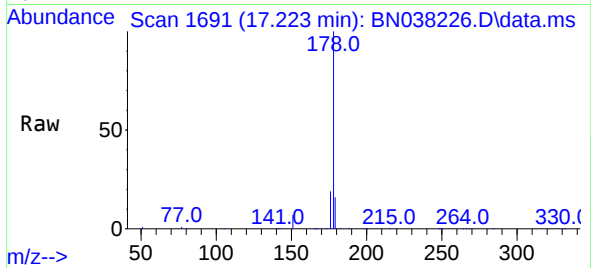




#25
Phenanthrene
Concen: 17.487 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

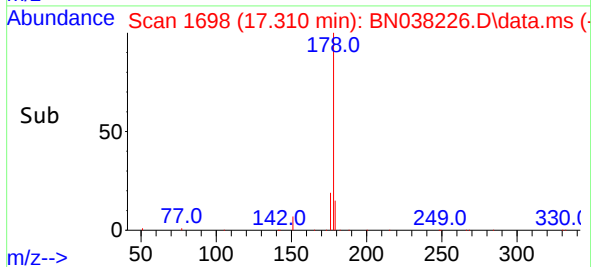
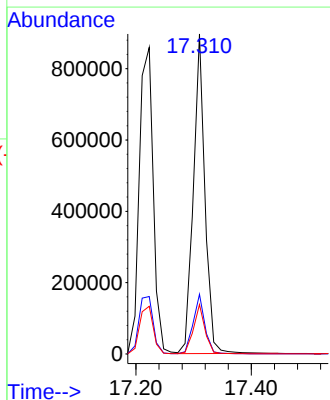
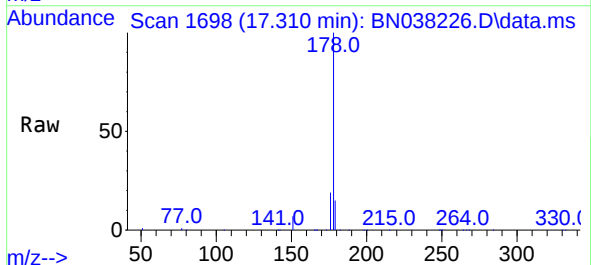
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

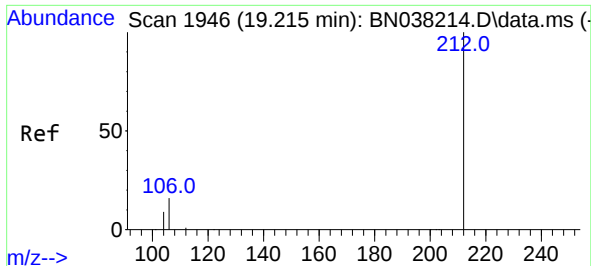
Tgt Ion:178 Resp: 1450718
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.4 12.0 18.0



#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

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

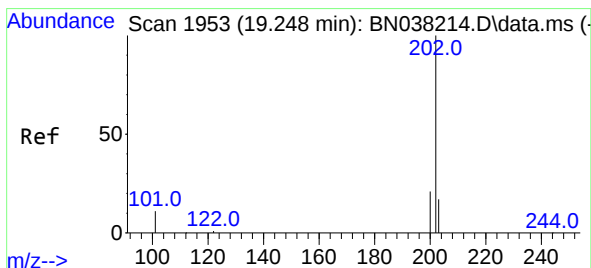
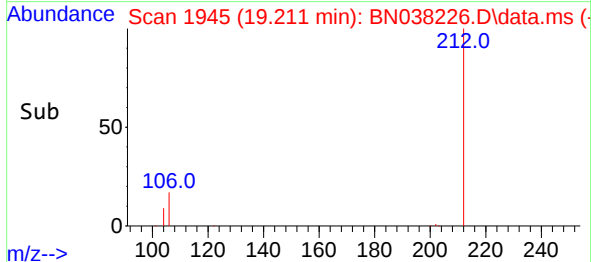
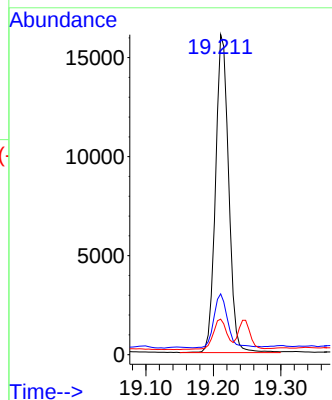
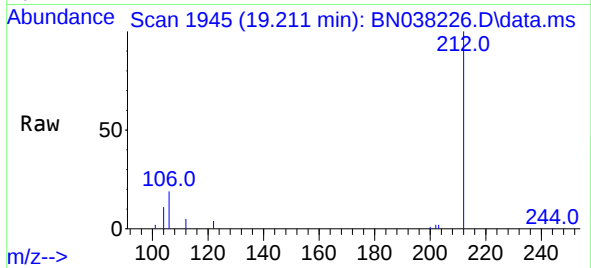




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

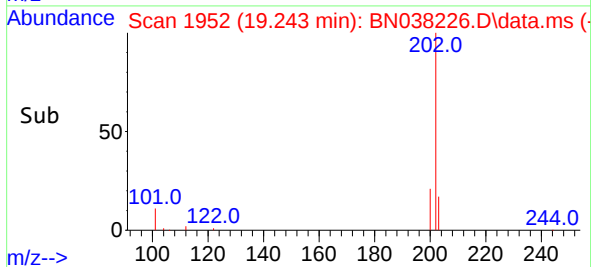
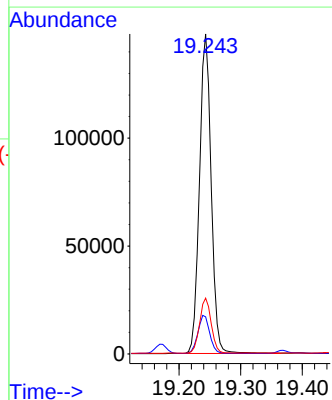
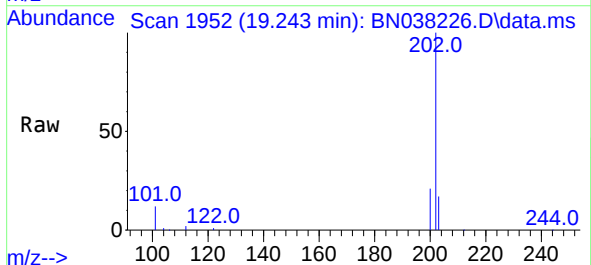
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ClientSampleId :
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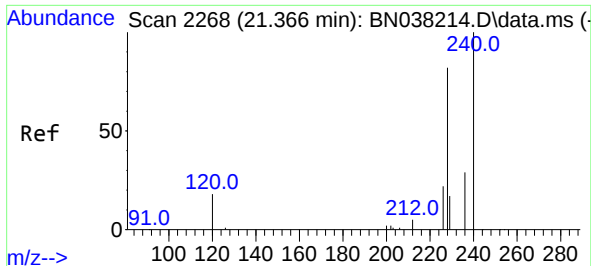
Tgt Ion:212 Resp: 21765
Ion Ratio Lower Upper
212 100
106 18.0 12.7 19.1
104 10.1 7.3 10.9



#28
Fluoranthene
Concen: 2.450 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

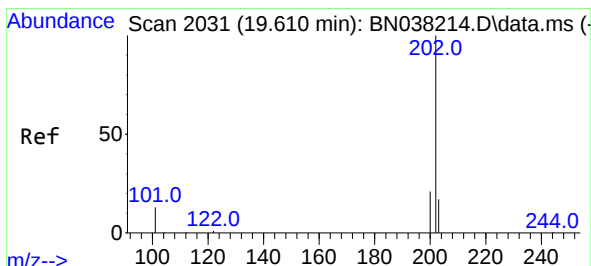
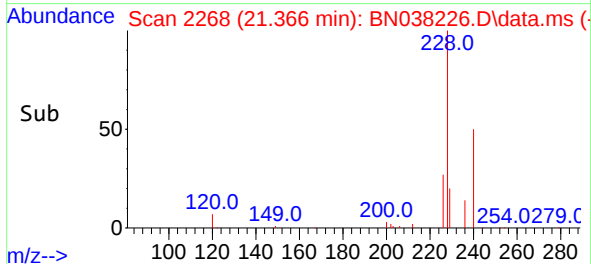
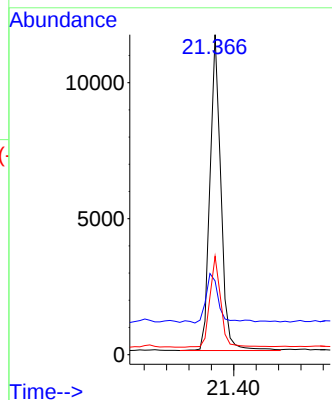
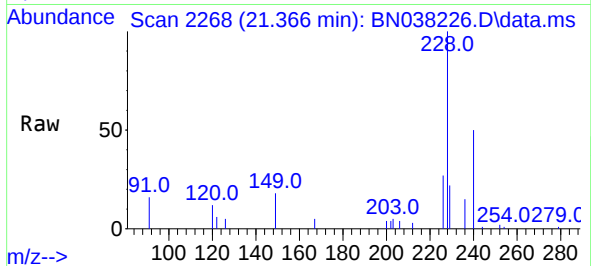




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

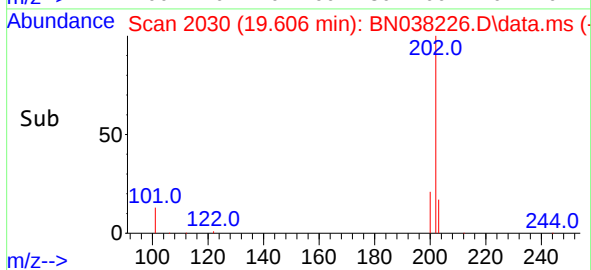
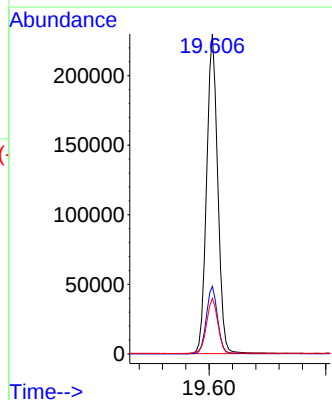
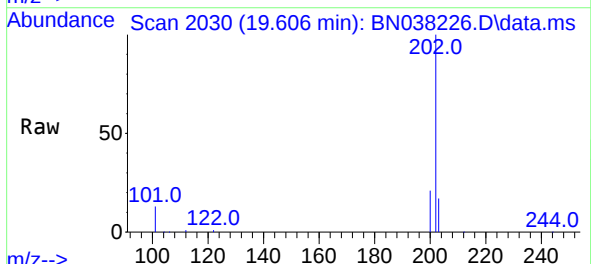
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ClientSampleId :
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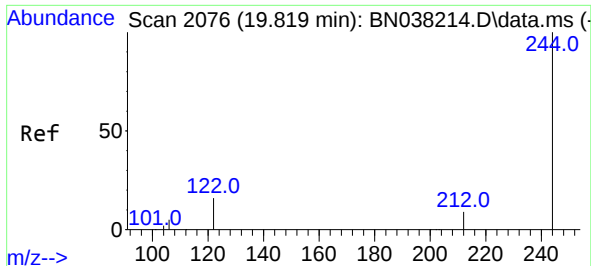
Tgt Ion:240 Resp: 15733
Ion Ratio Lower Upper
240 100
120 23.0 18.1 27.1
236 30.7 24.2 36.4



#30
Pyrene
Concen: 3.895 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

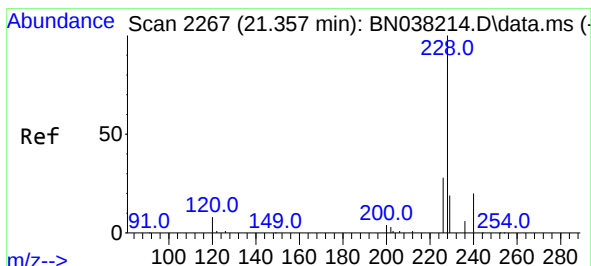
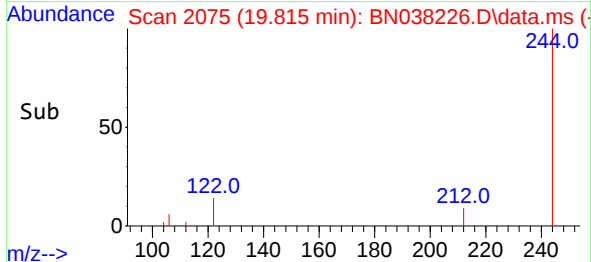
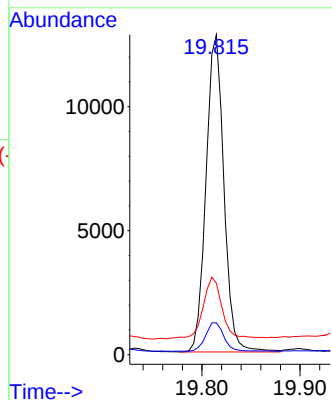
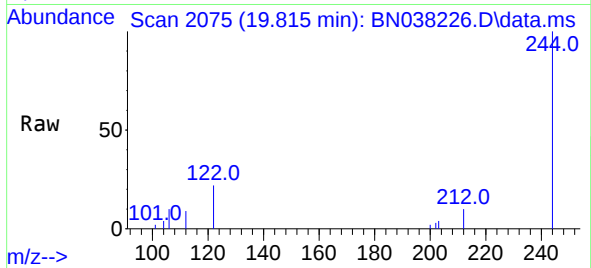




#31
 Terphenyl-d14
 Concen: 0.445 ng
 RT: 19.815 min Scan# 2076
 Delta R.T. -0.005 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

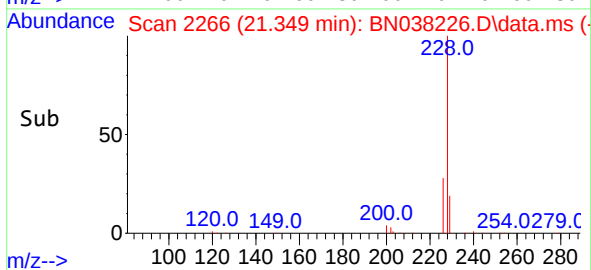
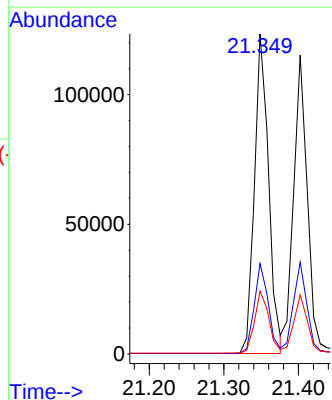
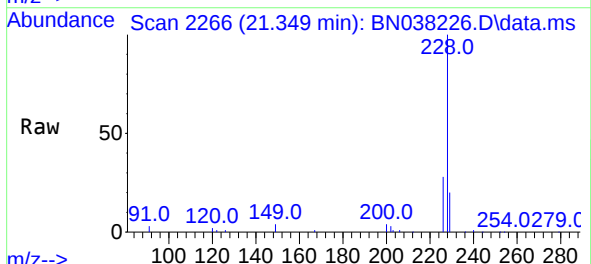
Instrument :
 BNA_N
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 HW1025-PT-PAH-SOIL

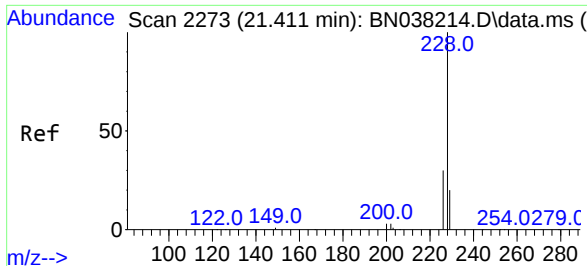
Tgt Ion:244 Resp: 16178
 Ion Ratio Lower Upper
 244 100
 212 10.0 7.7 11.5
 122 22.4 13.6 20.4#



#32
 Benzo(a)anthracene
 Concen: 3.047 ng
 RT: 21.349 min Scan# 2266
 Delta R.T. -0.009 min
 Lab File: BN038226.D
 Acq: 01 Dec 2025 14:56

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

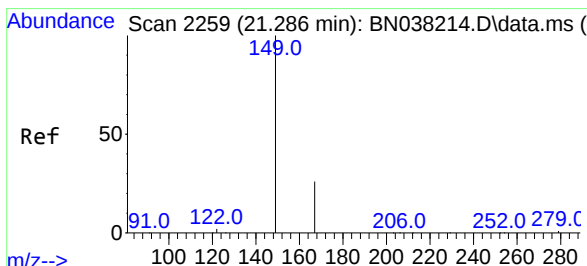
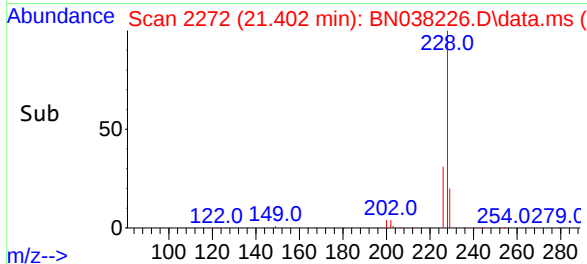
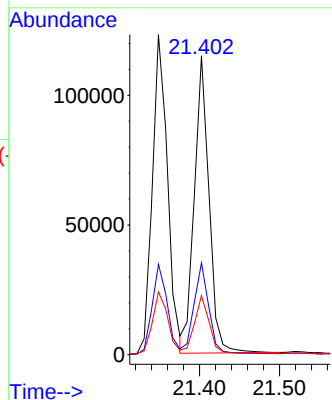
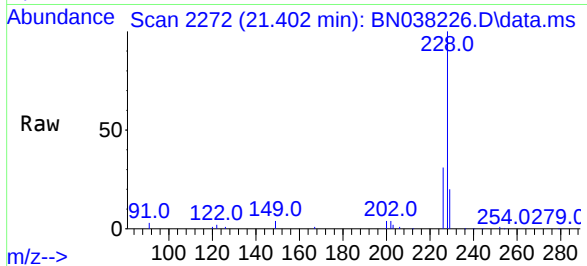




#33
Chrysene
Concen: 2.341 ng
RT: 21.402 min Scan# 2140
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

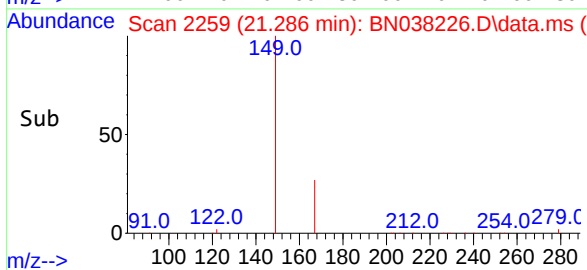
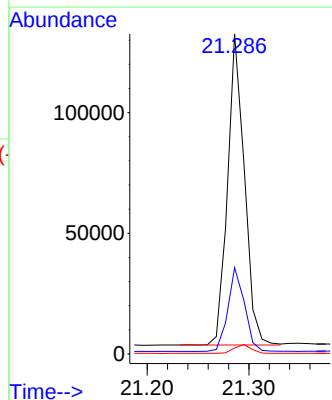
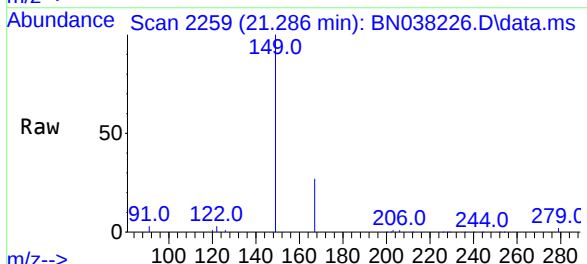
Instrument :
BNA_N
ClientSampleId :
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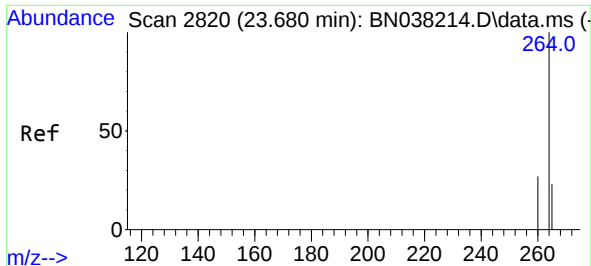
Tgt Ion:228 Resp: 147180
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 19.7 16.1 24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 5.074 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

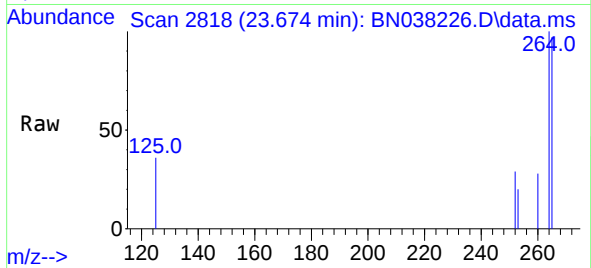
Tgt Ion:149 Resp: 148034
Ion Ratio Lower Upper
149 100
167 26.6 20.7 31.1
279 2.9 2.5 3.7



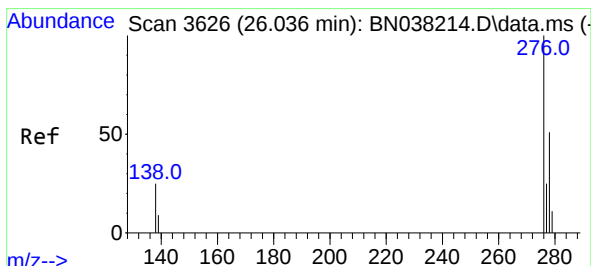
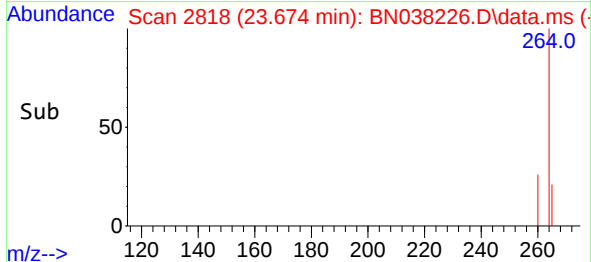
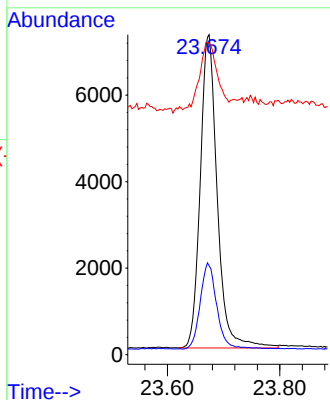


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

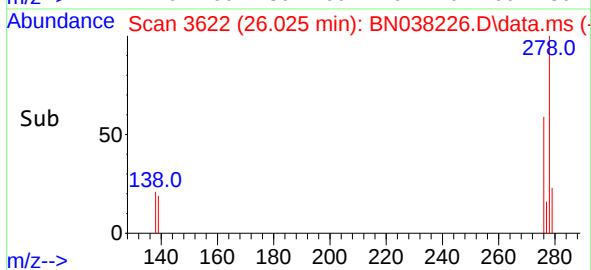
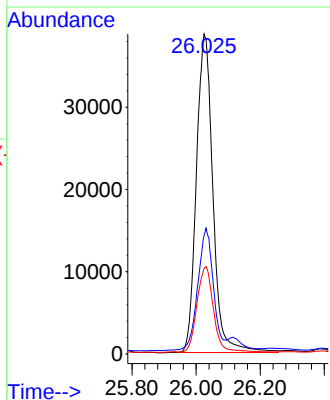
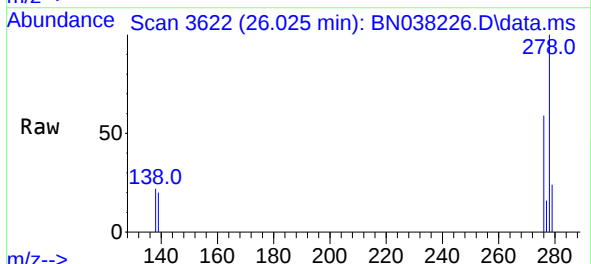


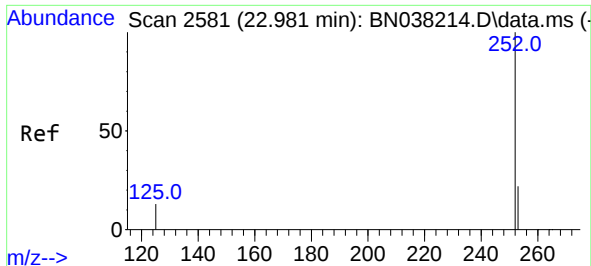
Tgt Ion:264 Resp: 15160
Ion Ratio Lower Upper
264 100
260 27.8 21.7 32.5
265 97.4 98.0 147.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.981 ng
RT: 26.025 min Scan# 3622
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

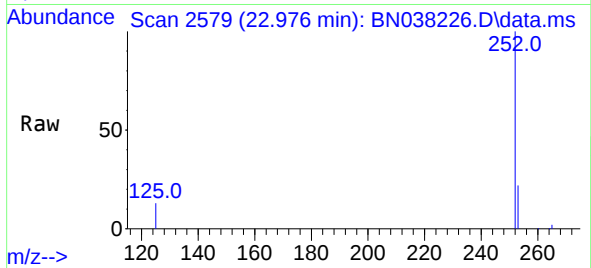
Tgt Ion:276 Resp: 138980
Ion Ratio Lower Upper
276 100
138 35.6 21.4 32.2#
277 25.9 19.1 28.7



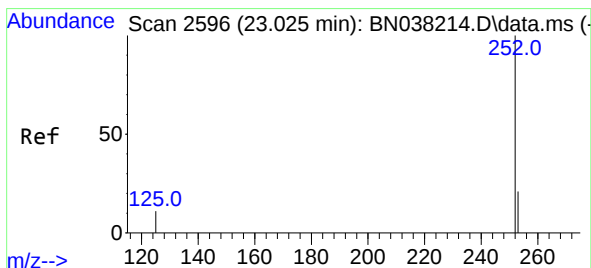
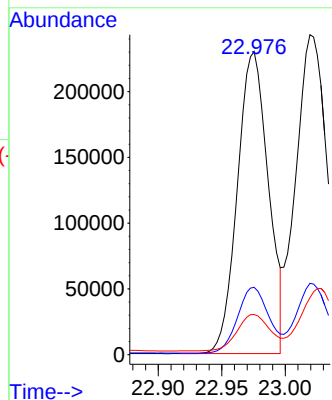


#37
Benzo(b)fluoranthene
Concen: 6.244 ng
RT: 22.976 min Scan# 2579
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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

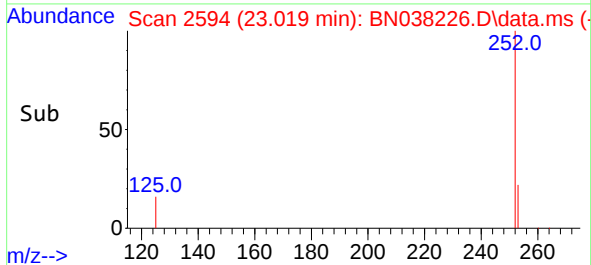
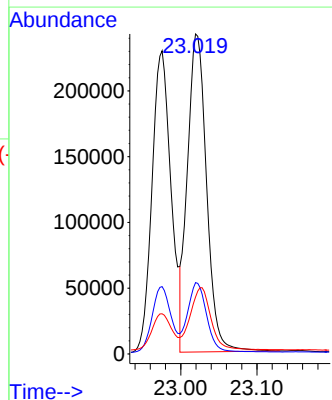
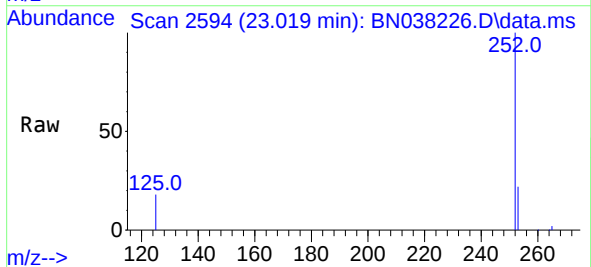


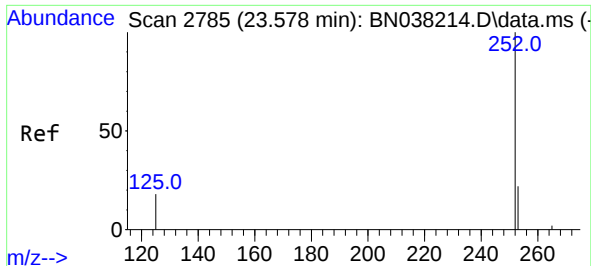
Tgt Ion:252 Resp: 388530
Ion Ratio Lower Upper
252 100
253 22.2 22.2 33.4#
125 13.2 18.0 27.0#



#38
Benzo(k)fluoranthene
Concen: 6.531 ng
RT: 23.019 min Scan# 2594
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

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# 21

Delta R.T. -0.009 min

Lab File: BN038226.D

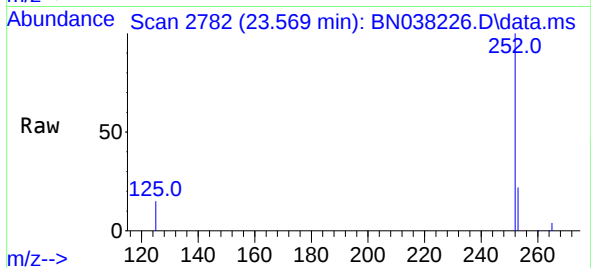
Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

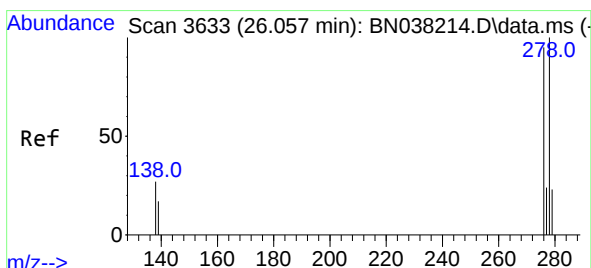
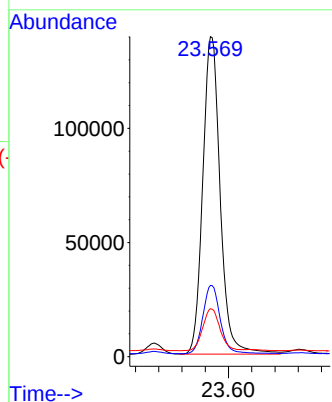
ClientSampleId :

HW1025-PT-PAH-SOIL



Tgt Ion: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

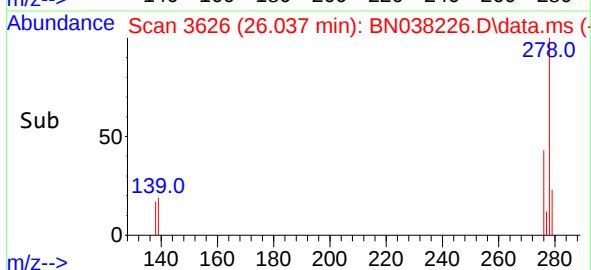
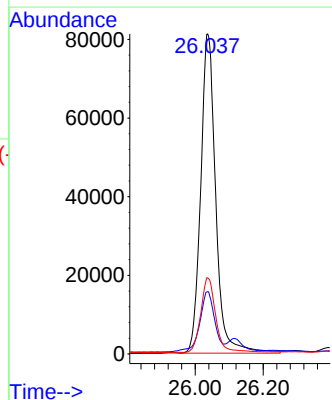
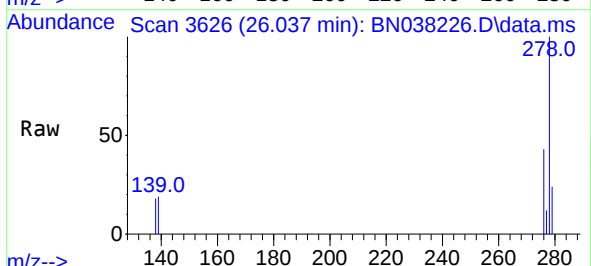
Delta R.T. -0.020 min

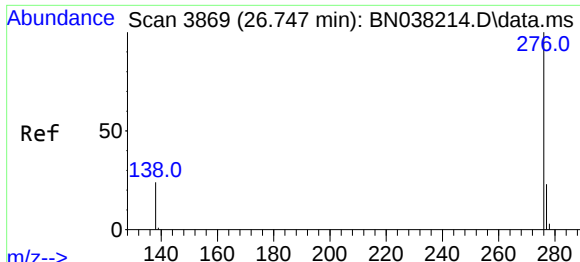
Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

Tgt Ion:278 Resp: 249956

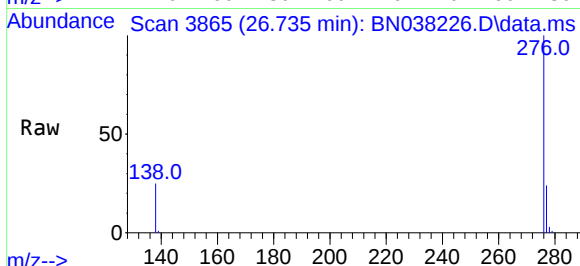
Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.6	26.4
279	23.8	24.2	36.4#





#41
 Benzo(g,h,i)perylene
 Concen: 5.013 ng
 RT: 26.735 min Scan# 31
 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: 318151
 Ion Ratio Lower Upper
 276 100
 277 23.5 20.2 30.2
 138 24.9 20.8 31.2

