

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038236.D
 Acq On : 01 Dec 2025 21:29
 Operator : RC/JU
 Sample : Q3618-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 50

Instrument :
 BNA_N
 ClientSampleId :
 EME-TOP-SOIL

Quant Time: Dec 02 01:10:03 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)

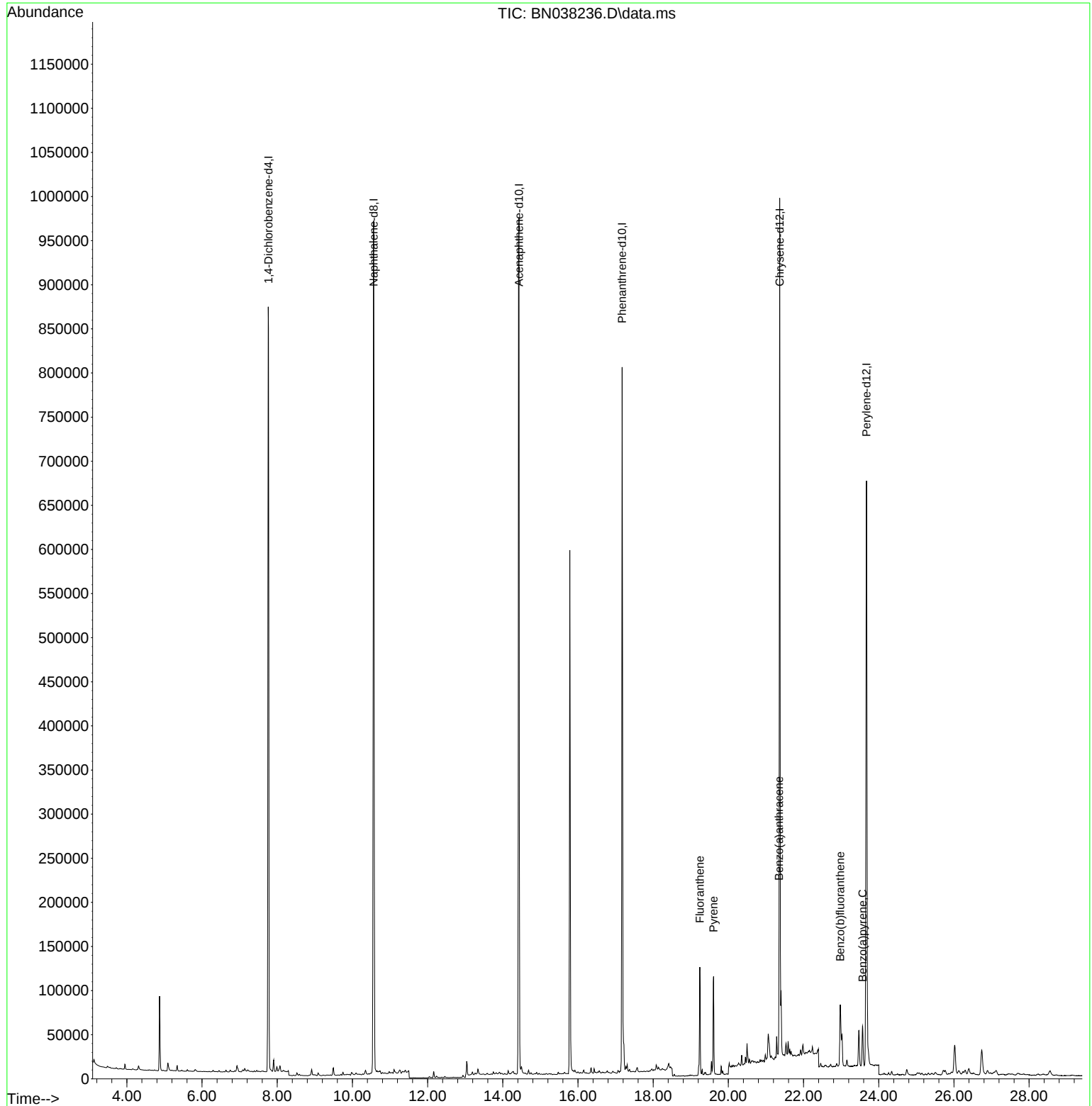
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	439250	20.000	ng	0.00
7) Naphthalene-d8	10.562	136	1255886	20.000	ng	#-0.01
13) Acenaphthene-d10	14.430	164	613558	20.000	ng	0.00
19) Phenanthrene-d10	17.173	188	1008772	20.000	ng	#-0.01
29) Chrysene-d12	21.366	240	803550	20.000	ng	# 0.00
35) Perylene-d12	23.674	264	869891	20.000	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	5081	0.247	ng	0.00
5) Phenol-d6	6.930	99	6096	0.238	ng	0.00
8) Nitrobenzene-d5	8.918	82	5234	0.261	ng	0.00
11) 2-Methylnaphthalene-d10	12.161	152	8487	0.238	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1232	0.319	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	13228	0.279	ng	-0.01
27) Fluoranthene-d10	19.211	212	11589	0.265	ng	0.00
31) Terphenyl-d14	19.810	244	8743	0.236	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.204	93	3263	0.133	ng	# 24
9) Naphthalene	10.615	128	2272	0.033	ng	# 82
12) 2-Methylnaphthalene	12.238	142	989	0.022	ng	# 74
16) Acenaphthylene	14.142	152	5323	0.097	ng	99
17) Acenaphthene	14.484	154	995	0.026	ng	# 76
18) Fluorene	15.478	166	2653	0.054	ng	84
25) Phenanthrene	17.210	178	33979	0.536	ng	# 95
26) Anthracene	17.310	178	8261	0.153	ng	# 94
28) Fluoranthene	19.243	202	109271	1.790	ng	98
30) Pyrene	19.605	202	99970	1.245	ng	97
32) Benzo(a)anthracene	21.348	228	55241	1.015	ng	96
33) Chrysene	21.402	228	61776	0.962	ng	96
34) Bis(2-ethylhexyl)phtha...	21.286	149	20642	0.693	ng	94
36) Indeno(1,2,3-cd)pyrene	26.019	276	55258	0.686	ng	97
37) Benzo(b)fluoranthene	22.975	252	106361	1.489	ng	# 93
39) Benzo(a)pyrene	23.569	252	62275	1.040	ng	93
40) Dibenzo(a,h)anthracene	26.031	278	12175	0.200	ng	# 67
41) Benzo(g,h,i)perylene	26.741	276	61441	0.844	ng	97

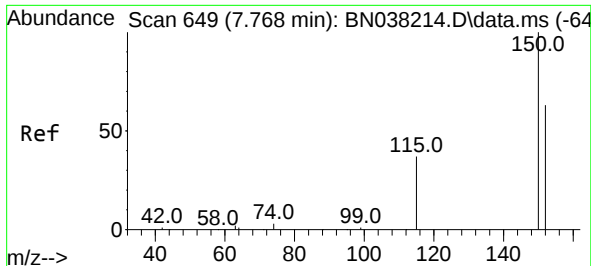
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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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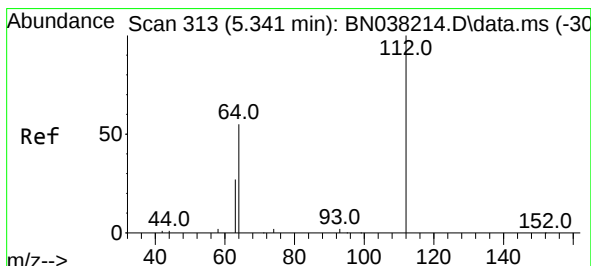
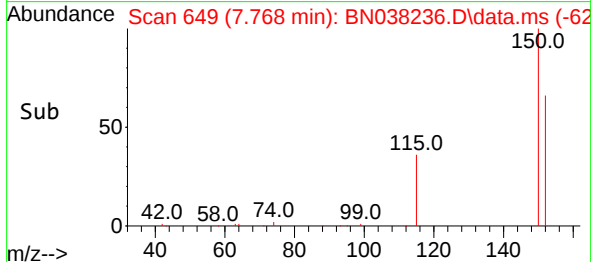
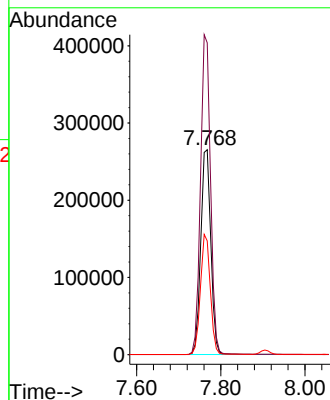
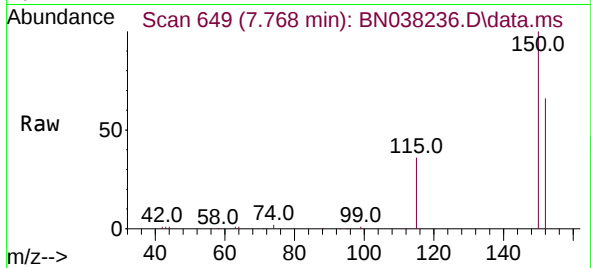




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.768 min Scan# 649
 Delta R.T. -0.000 min
 Lab File: BN038236.D
 Acq: 01 Dec 2025 21:29

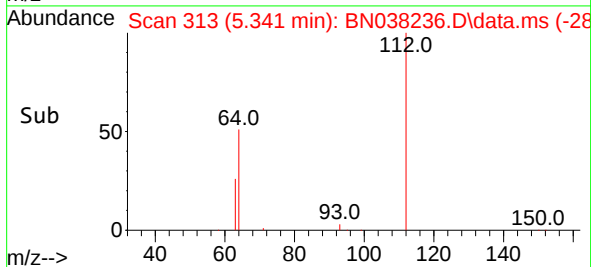
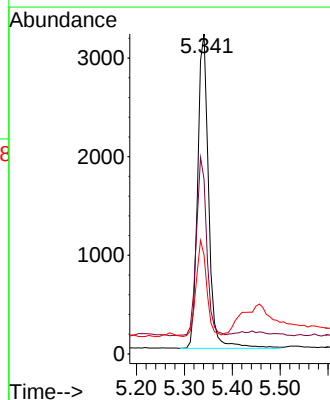
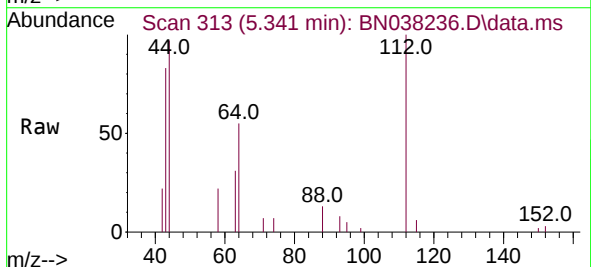
Instrument :
 BNA_N
 ClientSampleId :
 EME-TOP-SOIL

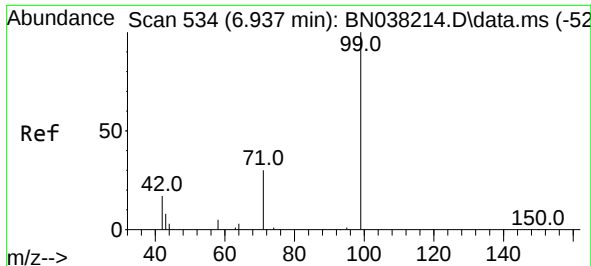
Tgt Ion:152 Resp: 439250
 Ion Ratio Lower Upper
 152 100
 150 152.1 125.3 187.9
 115 55.5 49.0 73.4



#4
 2-Fluorophenol
 Concen: 0.247 ng
 RT: 5.341 min Scan# 313
 Delta R.T. -0.000 min
 Lab File: BN038236.D
 Acq: 01 Dec 2025 21:29

Tgt Ion:112 Resp: 5081
 Ion Ratio Lower Upper
 112 100
 64 53.6 45.0 67.4
 63 29.2 23.2 34.8

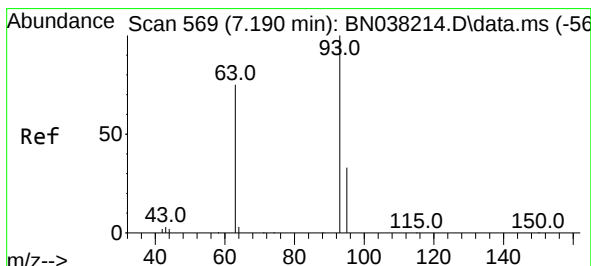
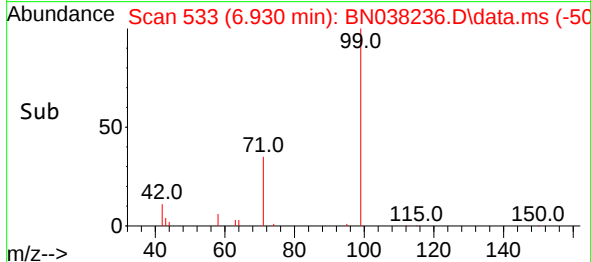
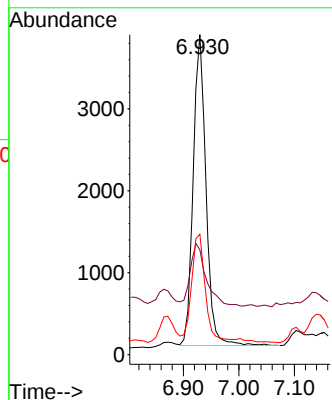
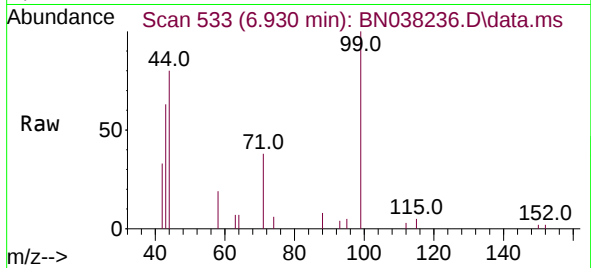




#5
Phenol-d6
Concen: 0.238 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

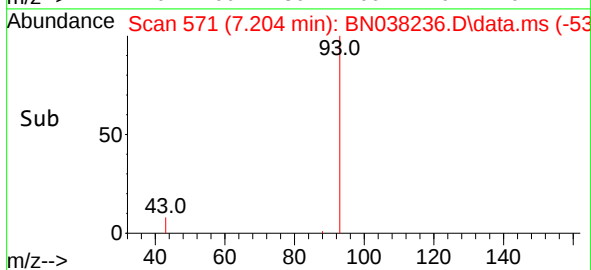
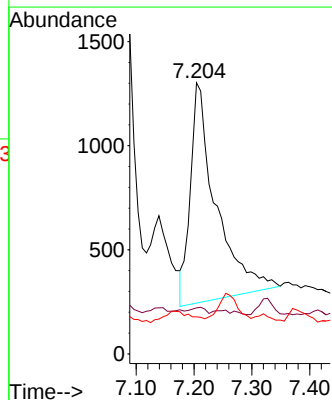
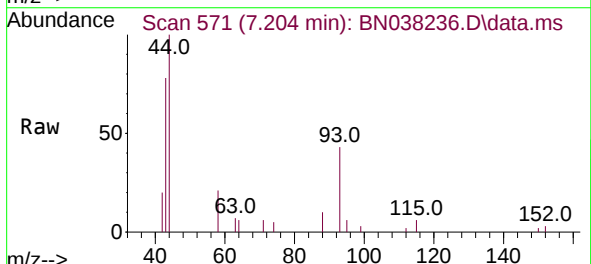
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

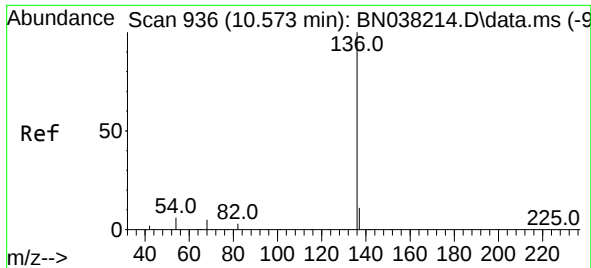
Tgt Ion:	99	Resp:	6096
Ion	Ratio	Lower	Upper
99	100		
42	24.9	17.0	25.6
71	35.1	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.133 ng
RT: 7.204 min Scan# 571
Delta R.T. 0.014 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:	93	Resp:	3263
Ion	Ratio	Lower	Upper
93	100		
63	2.1	58.1	87.1#
95	0.0	25.1	37.7#

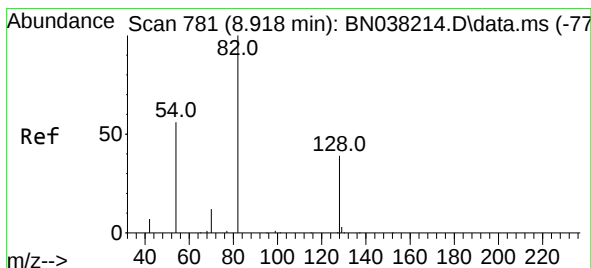
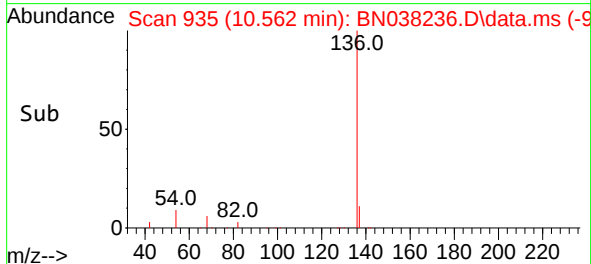
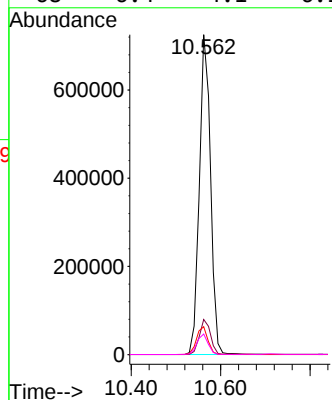
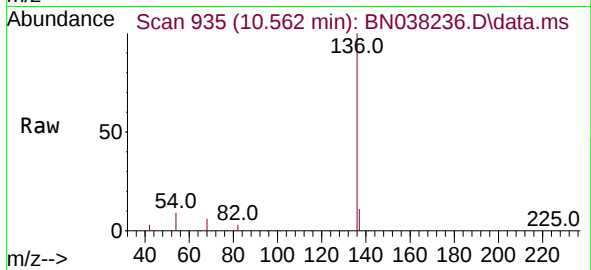




#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

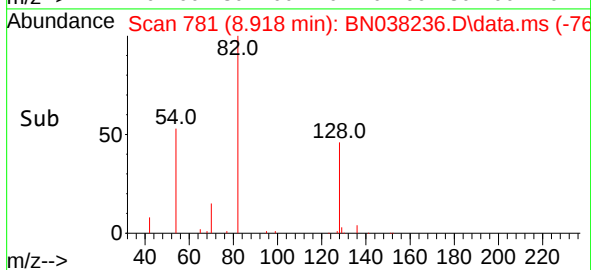
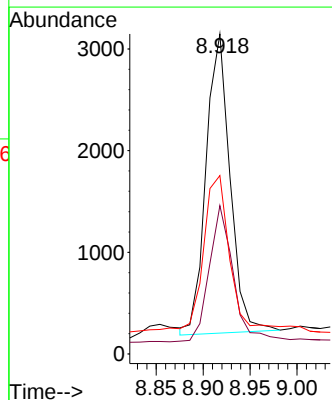
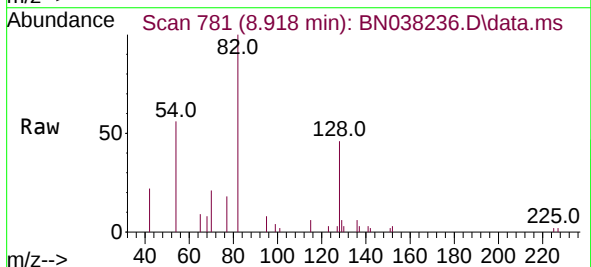
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

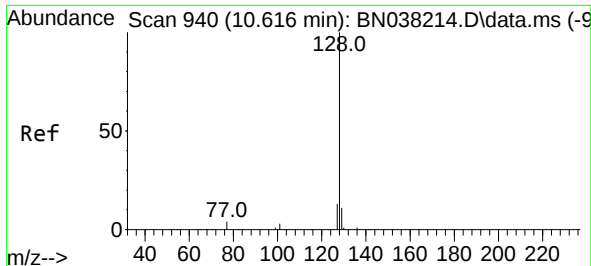
Tgt Ion:136 Resp: 1255886
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 8.7 5.4 8.0#
68 6.4 4.1 6.1#



#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.918 min Scan# 781
Delta R.T. -0.000 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion: 82 Resp: 5234
Ion Ratio Lower Upper
82 100
128 46.3 32.6 48.8
54 55.7 45.4 68.0

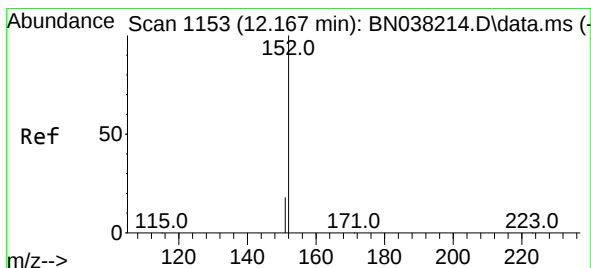
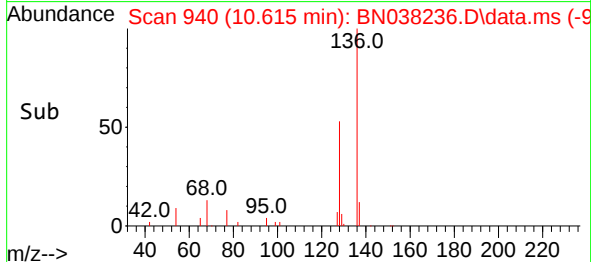
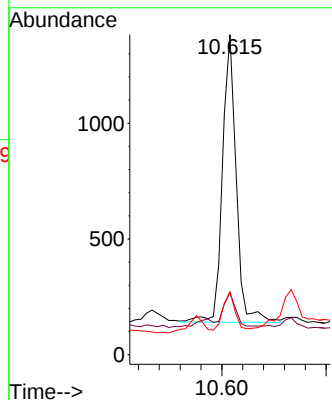
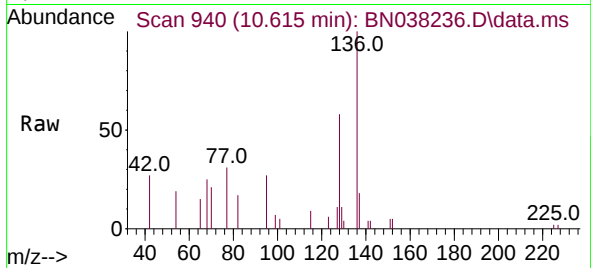




#9
Naphthalene
Concen: 0.033 ng
RT: 10.615 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

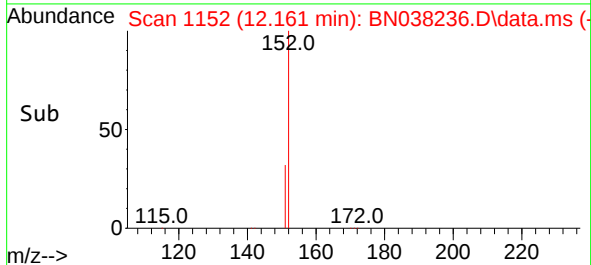
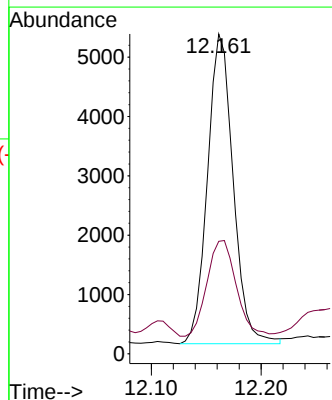
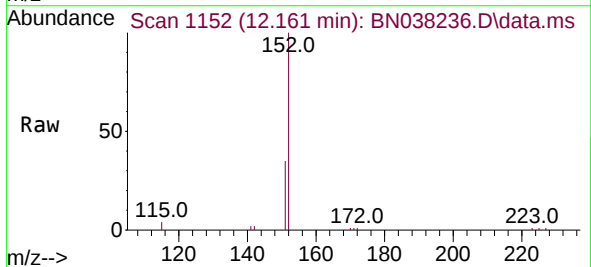
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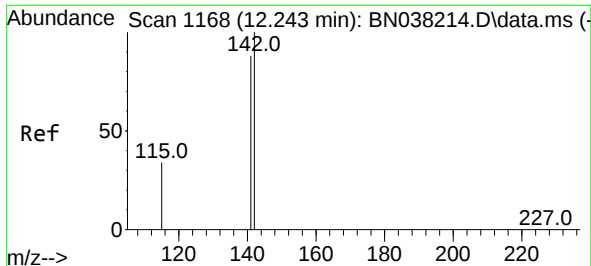
Tgt Ion:128 Resp: 2272
Ion Ratio Lower Upper
128 100
129 19.4 9.1 13.7#
127 19.7 10.6 16.0#



#11
2-Methylnaphthalene-d10
Concen: 0.238 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:152 Resp: 8487
Ion Ratio Lower Upper
152 100
151 34.9 16.7 25.1#

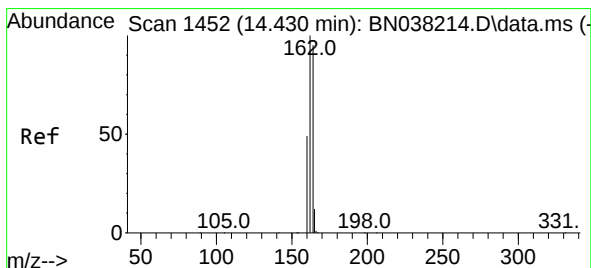
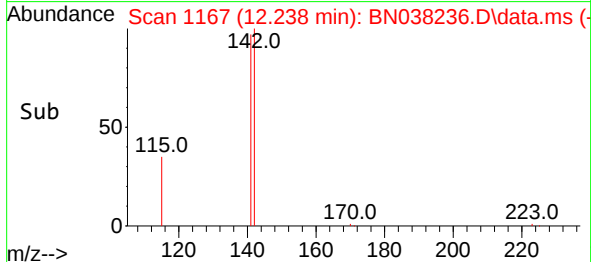
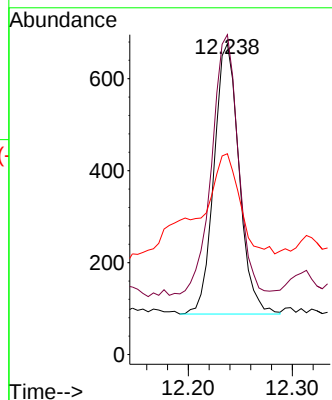
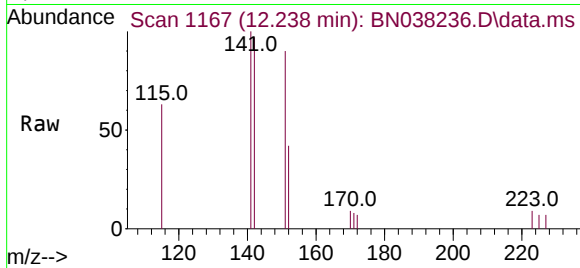




#12
2-Methylnaphthalene
Concen: 0.022 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

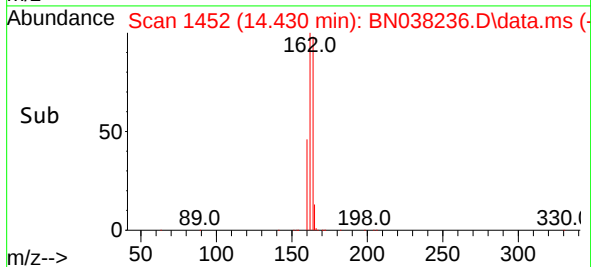
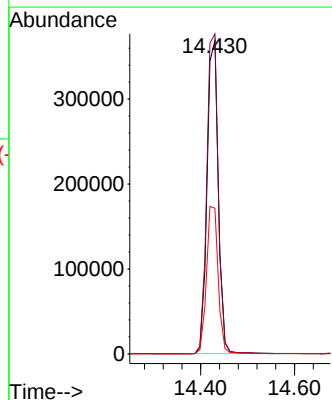
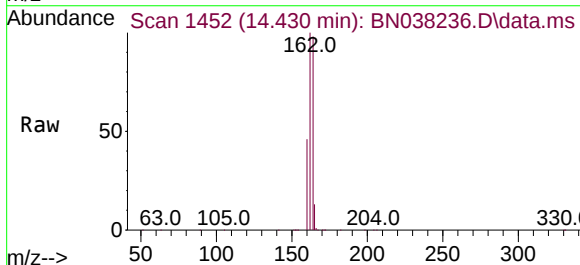
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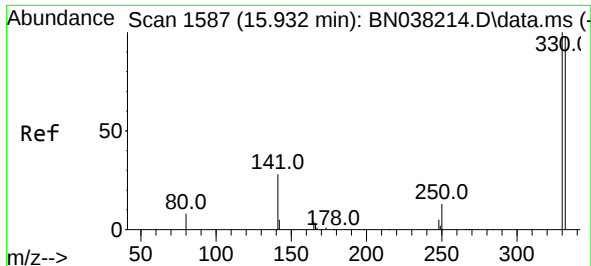
Tgt Ion:142 Resp: 989
Ion Ratio Lower Upper
142 100
141 103.0 70.9 106.3
115 64.6 27.7 41.5#



#13
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:164 Resp: 613558
Ion Ratio Lower Upper
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162 102.1 83.8 125.8
160 46.5 41.6 62.4

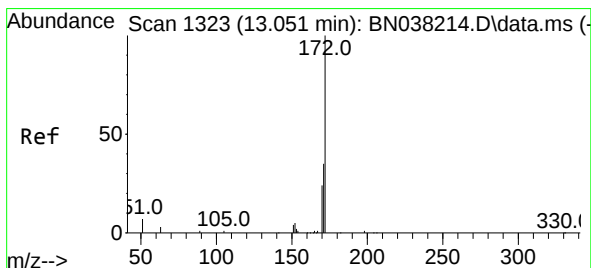
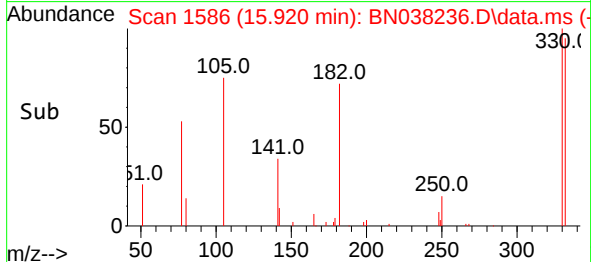
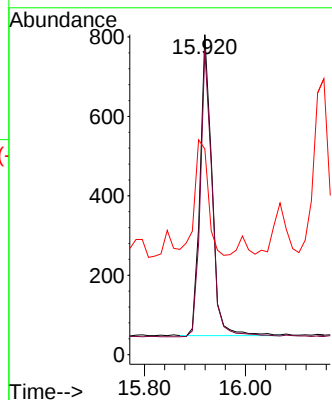
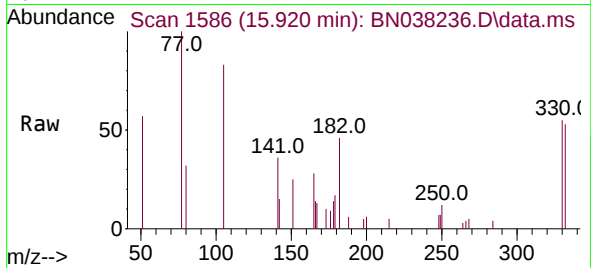




#14
 2,4,6-Tribromophenol
 Concen: 0.319 ng
 RT: 15.920 min Scan# 1586
 Delta R.T. -0.012 min
 Lab File: BN038236.D
 Acq: 01 Dec 2025 21:29

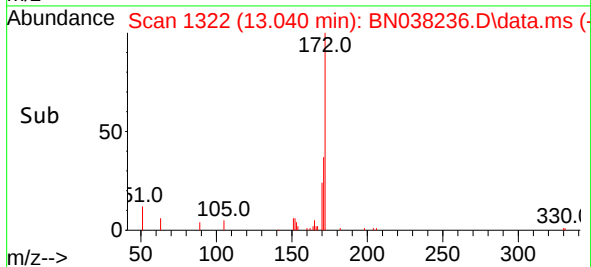
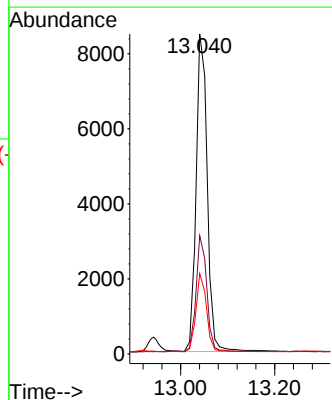
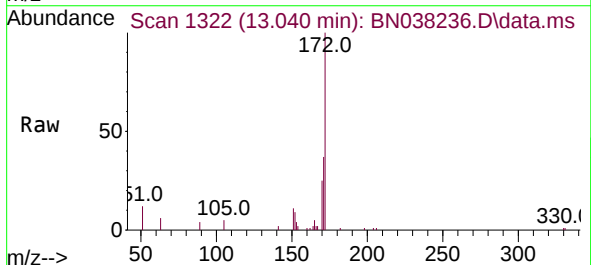
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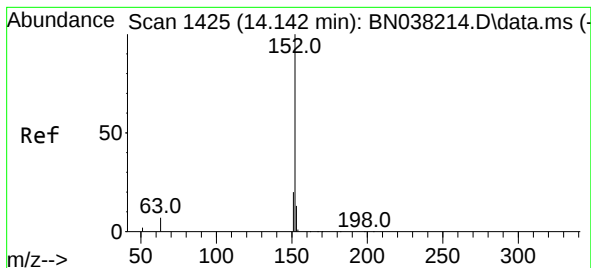
Tgt Ion:330 Resp: 1232
 Ion Ratio Lower Upper
 330 100
 332 95.1 77.8 116.6
 141 43.9 33.0 49.4



#15
 2-Fluorobiphenyl
 Concen: 0.279 ng
 RT: 13.040 min Scan# 1322
 Delta R.T. -0.011 min
 Lab File: BN038236.D
 Acq: 01 Dec 2025 21:29

Tgt Ion:172 Resp: 13228
 Ion Ratio Lower Upper
 172 100
 171 36.9 28.1 42.1
 170 25.1 19.1 28.7





#16

Acenaphthylene

Concen: 0.097 ng

RT: 14.142 min Scan# 1425

Delta R.T. -0.000 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

Instrument :

BNA_N

ClientSampleId :

EME-TOP-SOIL

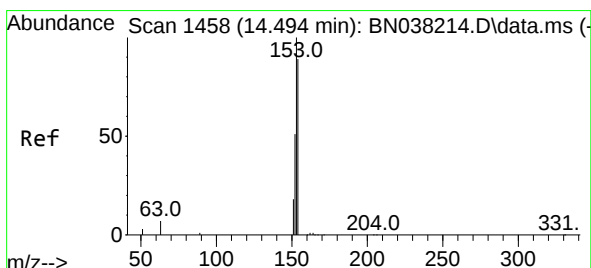
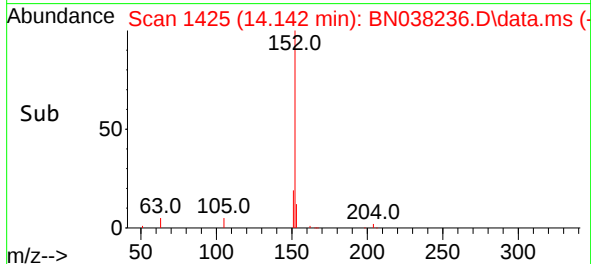
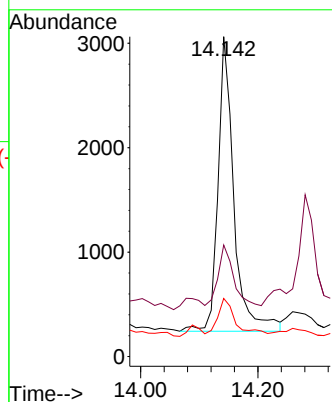
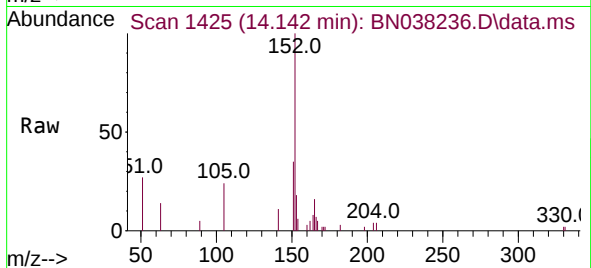
Tgt Ion:152 Resp: 5323

Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

153 14.3 10.6 15.8



#17

Acenaphthene

Concen: 0.026 ng

RT: 14.484 min Scan# 1457

Delta R.T. -0.011 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

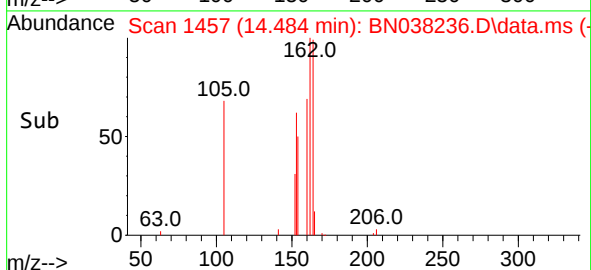
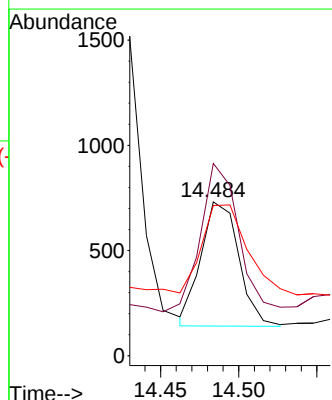
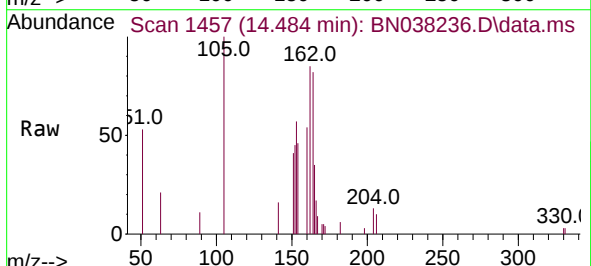
Tgt Ion:154 Resp: 995

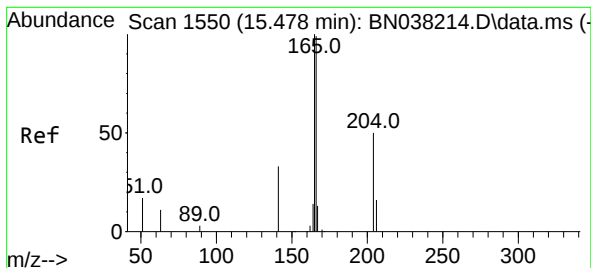
Ion Ratio Lower Upper

154 100

153 120.8 91.1 136.7

152 104.0 48.2 72.2#





#18

Fluorene

Concen: 0.054 ng

RT: 15.478 min Scan# 1550

Delta R.T. -0.000 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

Instrument :

BNA_N

ClientSampleId :

EME-TOP-SOIL

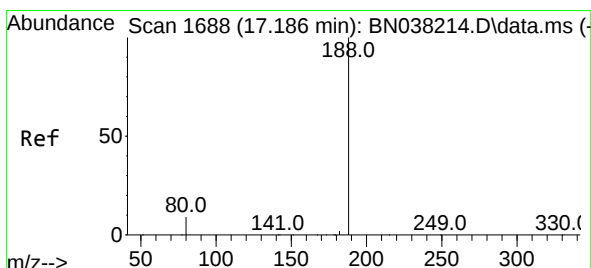
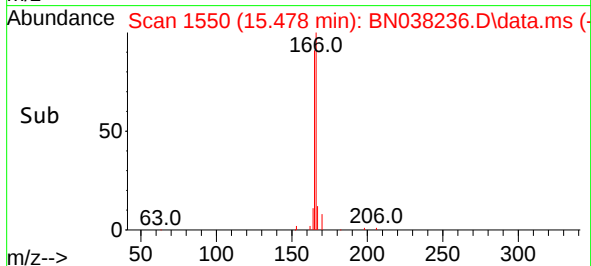
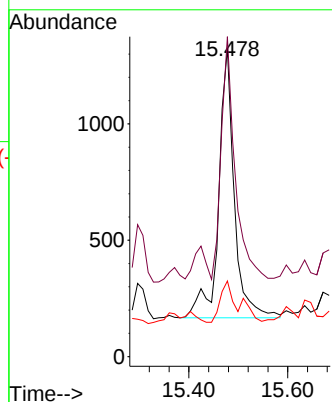
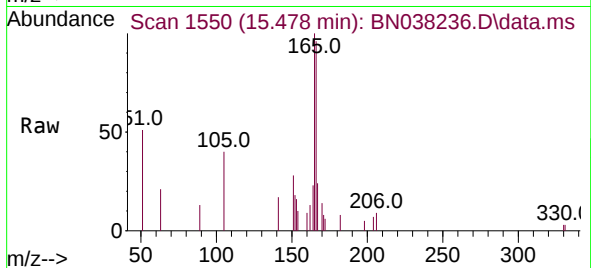
Tgt Ion:166 Resp: 2653

Ion Ratio Lower Upper

166 100

165 80.7 78.7 118.1

167 11.8 10.9 16.3



#19

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.173 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

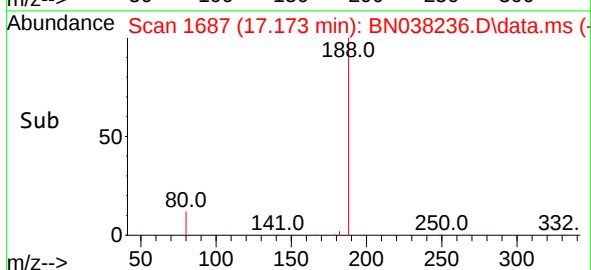
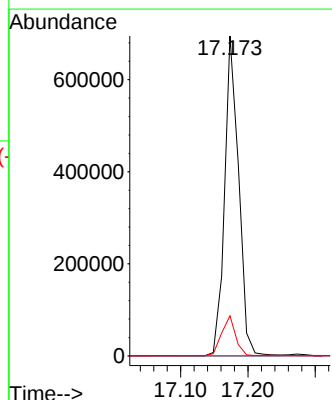
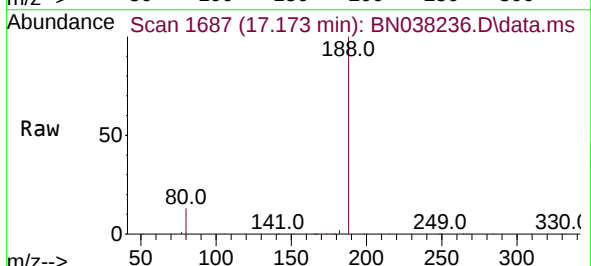
Tgt Ion:188 Resp: 1008772

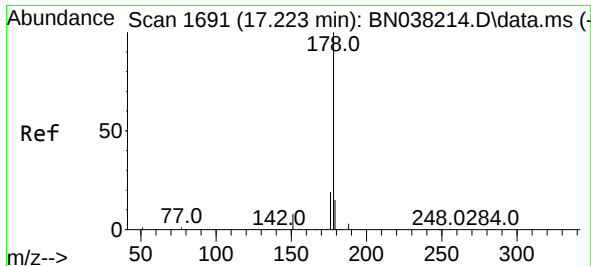
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 7.7 11.5#

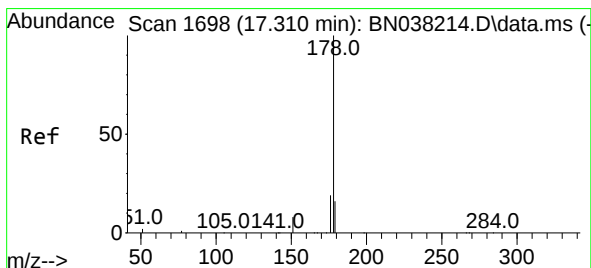
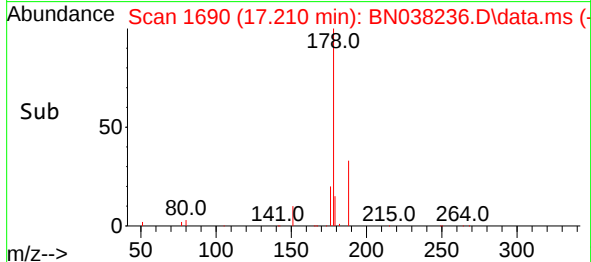
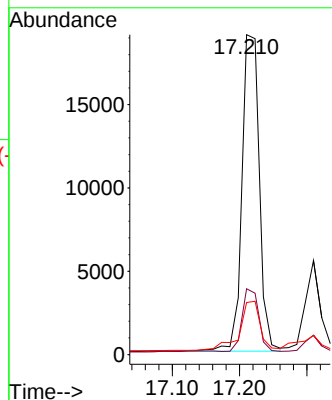
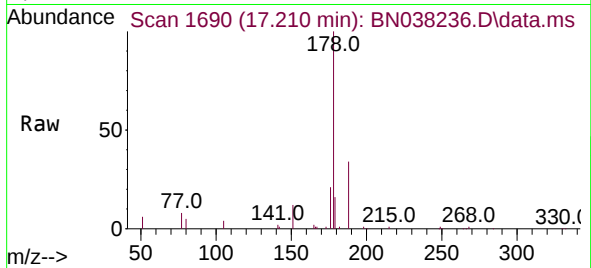




#25
Phenanthrene
Concen: 0.536 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

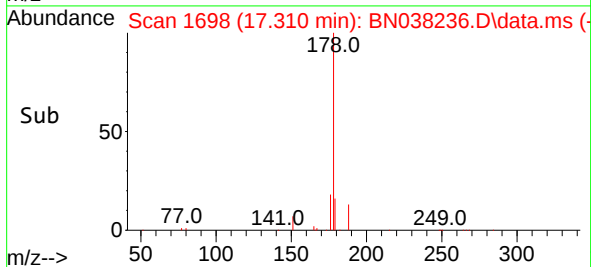
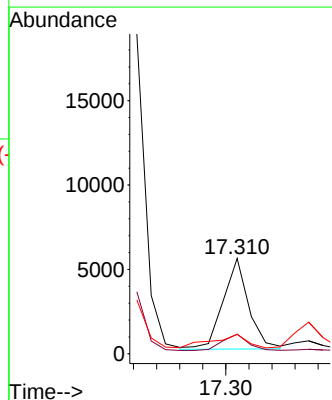
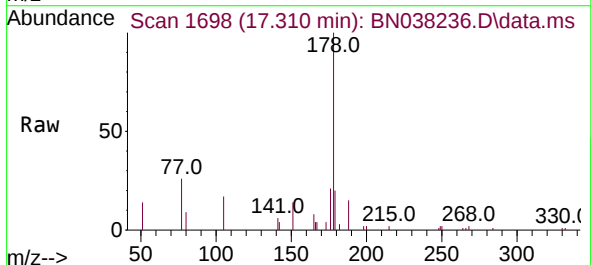
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

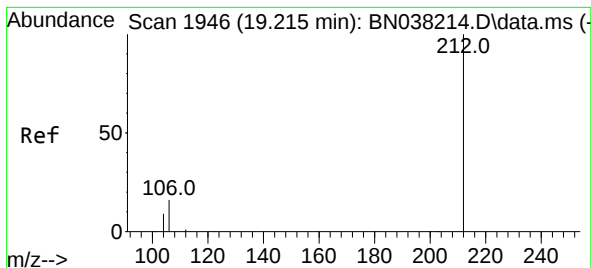
Tgt Ion:178 Resp: 33979
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 19.4 12.0 18.0#



#26
Anthracene
Concen: 0.153 ng
RT: 17.310 min Scan# 1698
Delta R.T. -0.000 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:178 Resp: 8261
Ion Ratio Lower Upper
178 100
176 17.9 14.7 22.1
179 20.4 12.3 18.5#

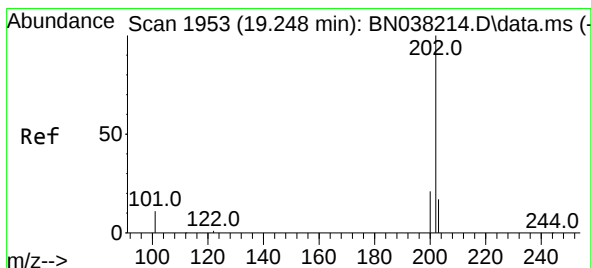
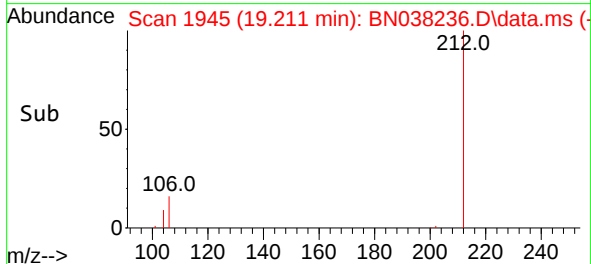
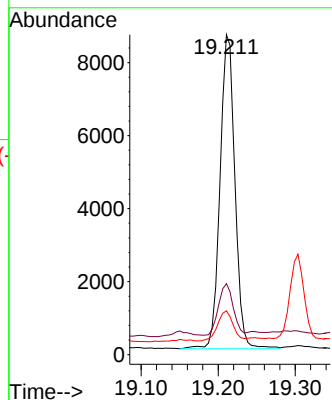
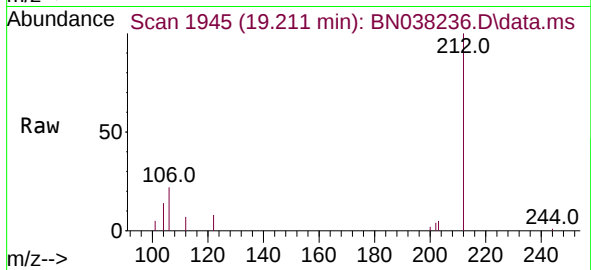




#27
Fluoranthene-d10
Concen: 0.265 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

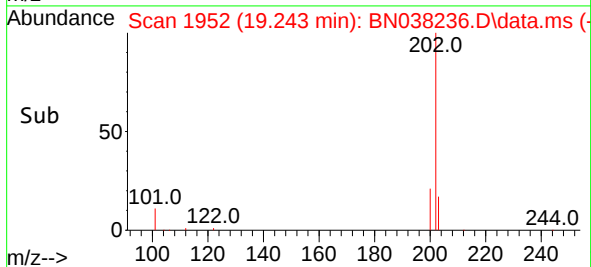
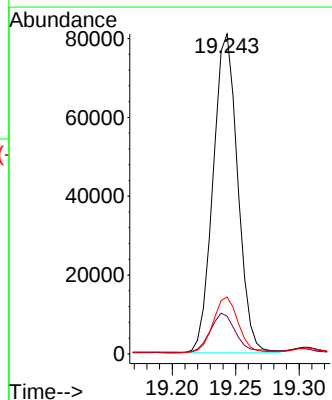
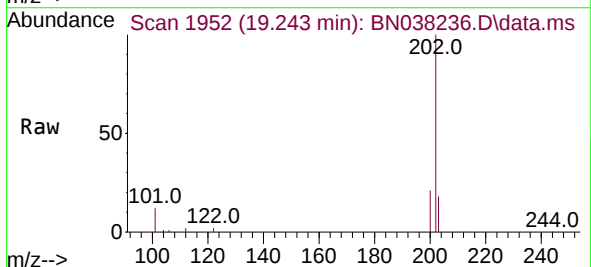
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

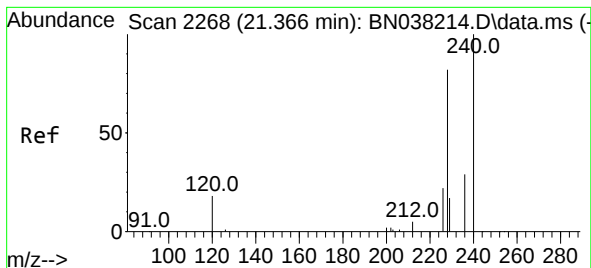
Tgt Ion:212 Resp: 11589
Ion Ratio Lower Upper
212 100
106 16.3 12.7 19.1
104 9.8 7.3 10.9



#28
Fluoranthene
Concen: 1.790 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:202 Resp: 109271
Ion Ratio Lower Upper
202 100
101 13.3 9.8 14.6
203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 20.000 ng

RT: 21.366 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

Instrument :

BNA_N

ClientSampleId :

EME-TOP-SOIL

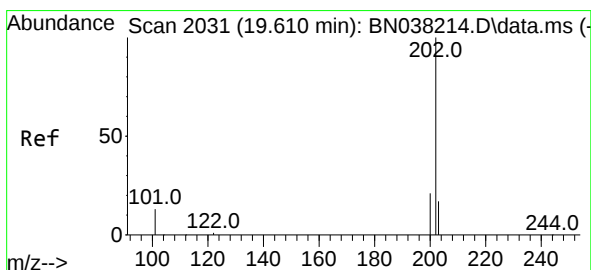
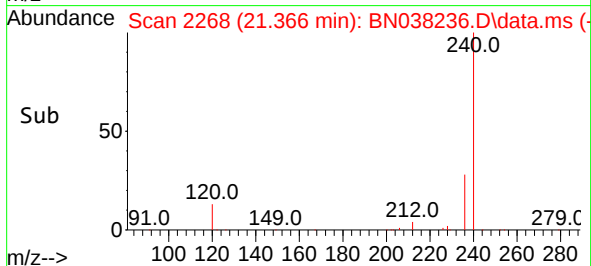
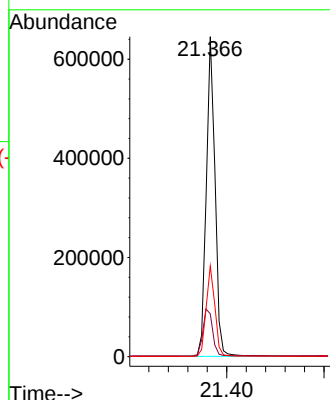
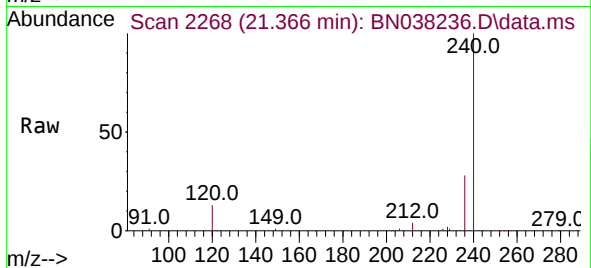
Tgt Ion:240 Resp: 803550

Ion Ratio Lower Upper

240 100

120 13.4 18.1 27.1#

236 28.3 24.2 36.4



#30

Pyrene

Concen: 1.245 ng

RT: 19.605 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

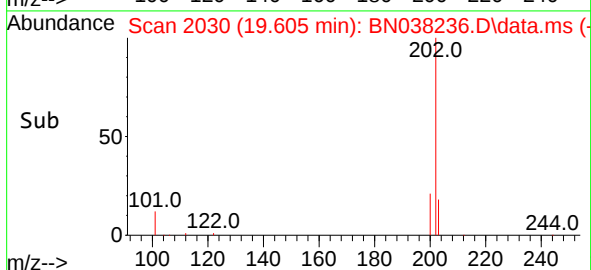
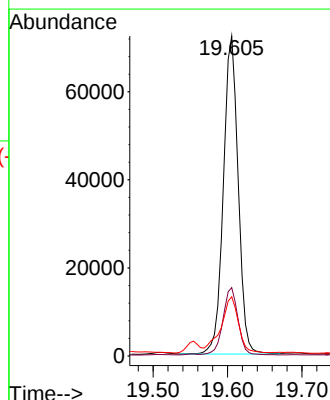
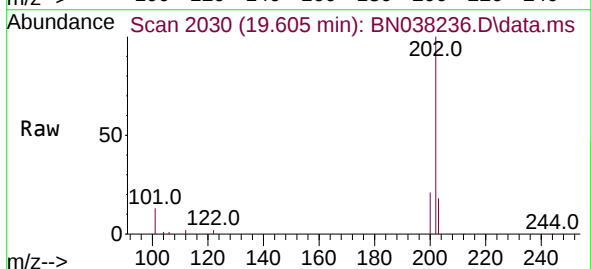
Tgt Ion:202 Resp: 99970

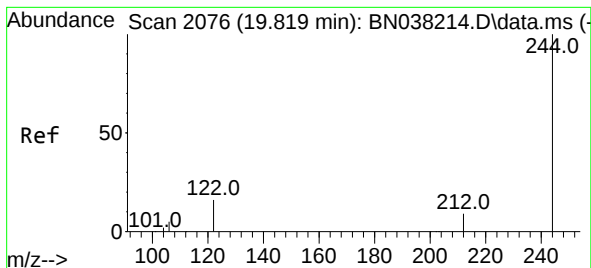
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 20.8 14.4 21.6





#31

Terphenyl-d14

Concen: 0.236 ng

RT: 19.810 min Scan# 2076

Delta R.T. -0.009 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

Instrument :

BNA_N

ClientSampleId :

EME-TOP-SOIL

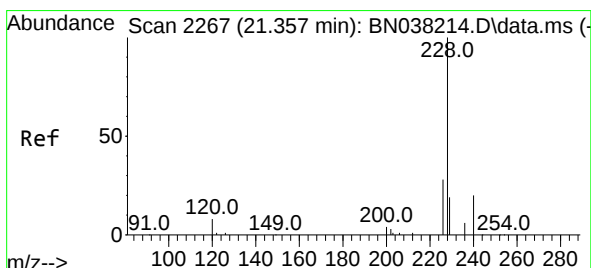
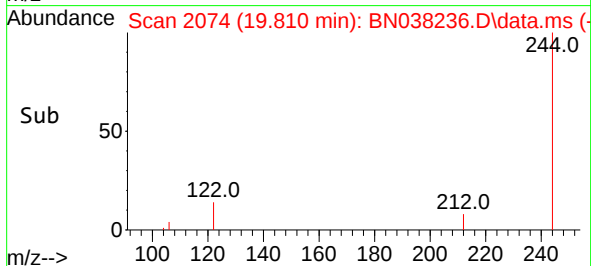
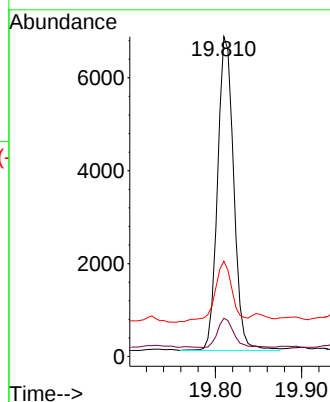
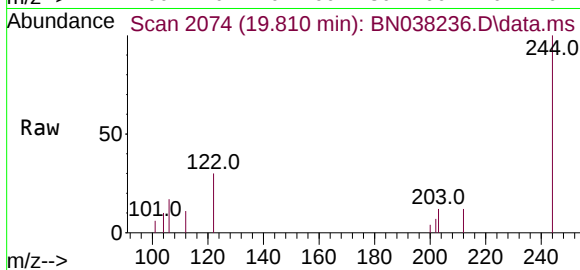
Tgt Ion:244 Resp: 8743

Ion Ratio Lower Upper

244 100

212 12.0 7.7 11.5#

122 29.8 13.6 20.4#



#32

Benzo(a)anthracene

Concen: 1.015 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

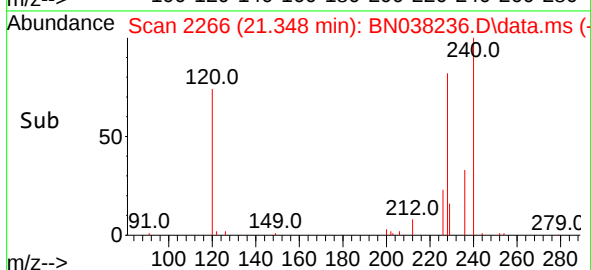
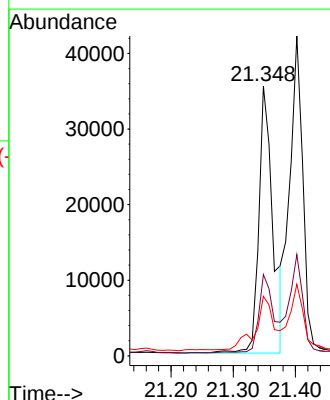
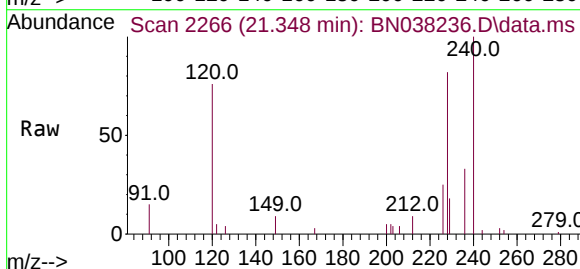
Tgt Ion:228 Resp: 55241

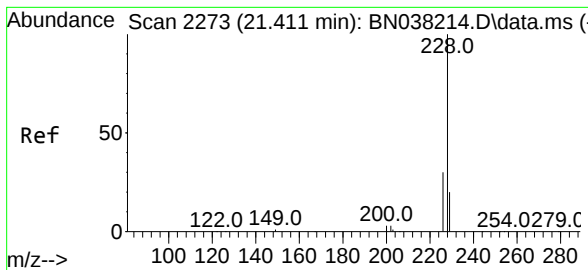
Ion Ratio Lower Upper

228 100

226 30.1 22.6 33.8

229 22.1 15.8 23.8





#33

Chrysene

Concen: 0.962 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

Instrument :

BNA_N

ClientSampleId :

EME-TOP-SOIL

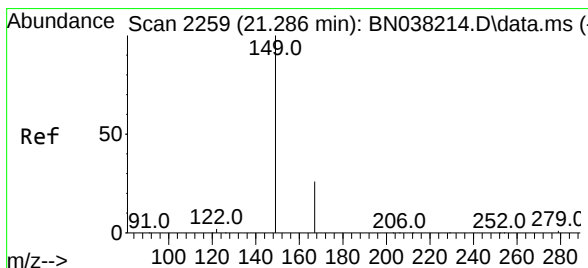
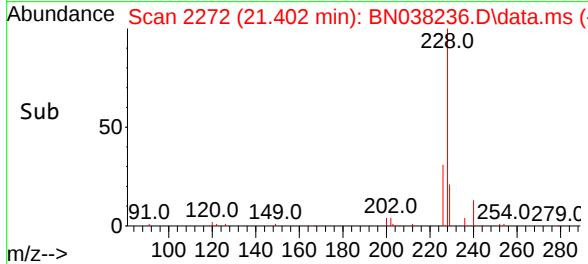
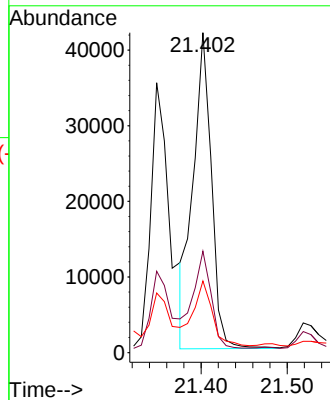
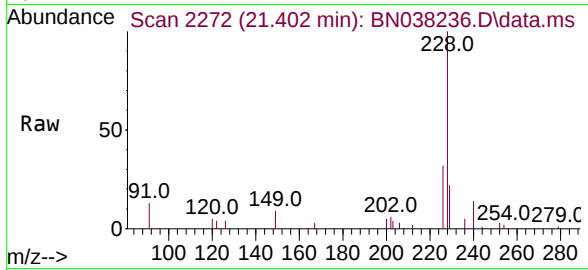
Tgt Ion:228 Resp: 61776

Ion Ratio Lower Upper

228 100

226 31.7 23.8 35.8

229 22.4 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.693 ng

RT: 21.286 min Scan# 2259

Delta R.T. -0.000 min

Lab File: BN038236.D

Acq: 01 Dec 2025 21:29

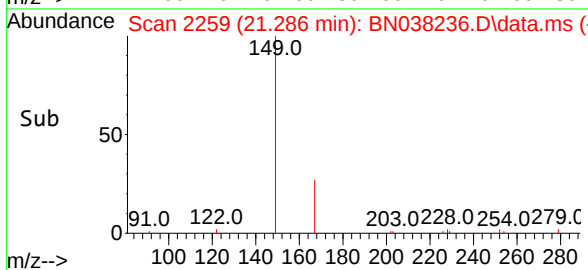
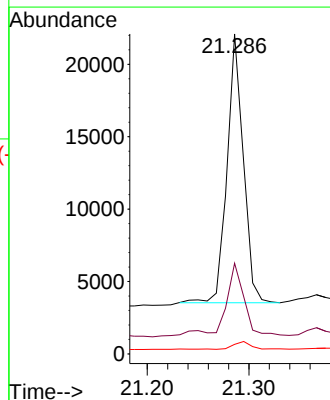
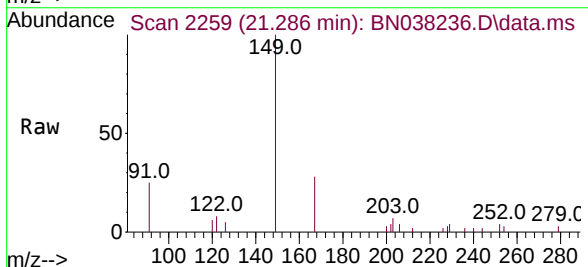
Tgt Ion:149 Resp: 20642

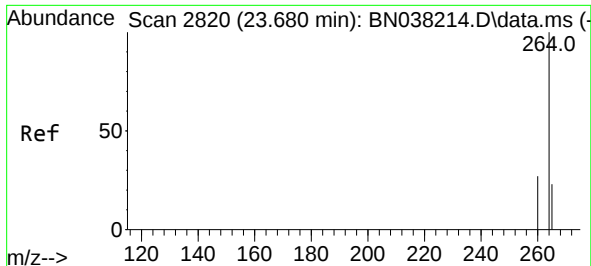
Ion Ratio Lower Upper

149 100

167 29.2 20.7 31.1

279 3.1 2.5 3.7

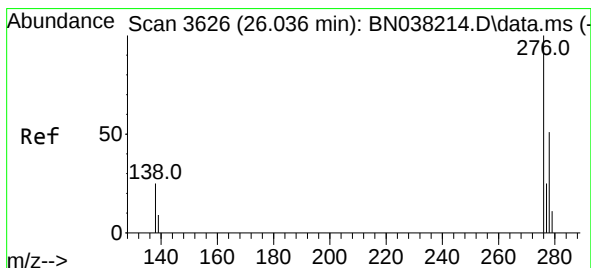
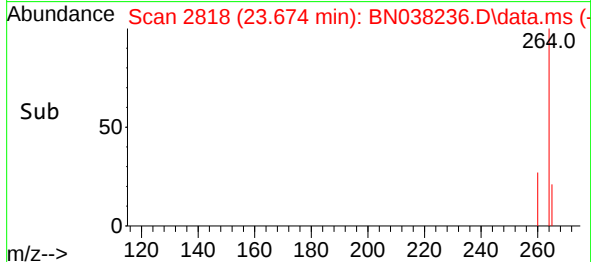
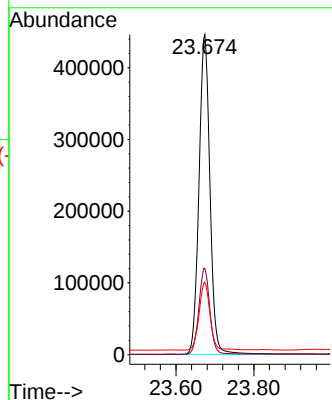
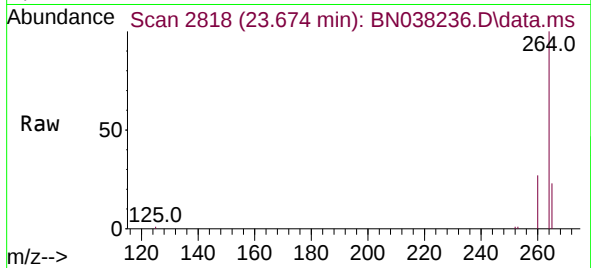




#35
Perylene-d12
Concen: 20.000 ng
RT: 23.674 min Scan# 2818
Delta R.T. -0.006 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

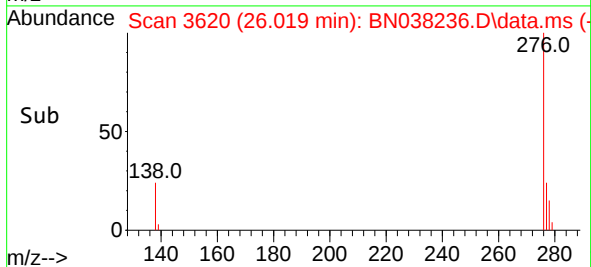
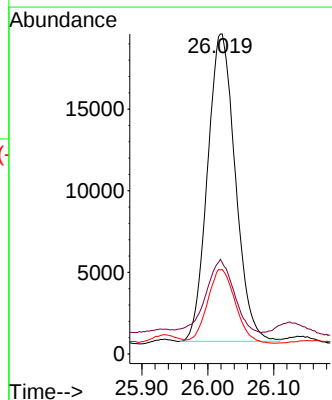
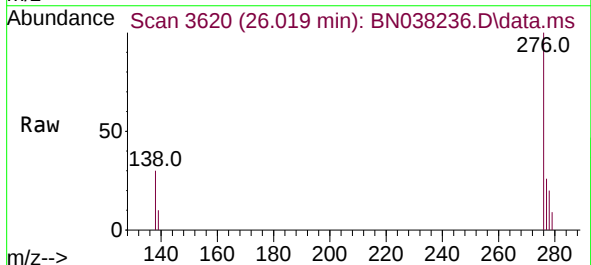
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

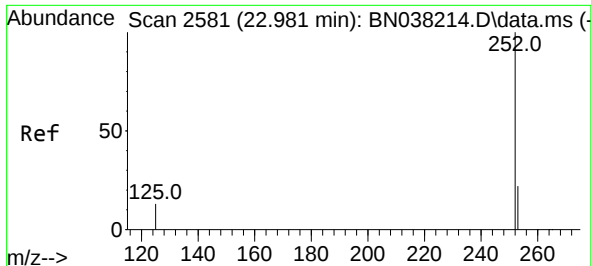
Tgt Ion:264 Resp: 869891
Ion Ratio Lower Upper
264 100
260 26.9 21.7 32.5
265 22.7 98.0 147.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.686 ng
RT: 26.019 min Scan# 3620
Delta R.T. -0.018 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:276 Resp: 55258
Ion Ratio Lower Upper
276 100
138 23.7 21.4 32.2
277 24.2 19.1 28.7

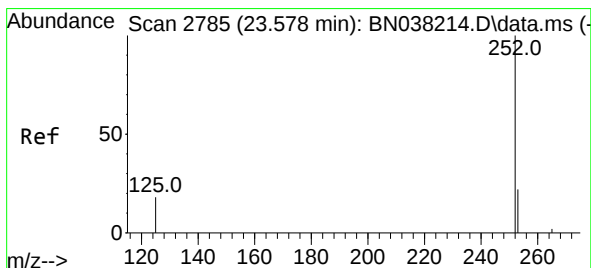
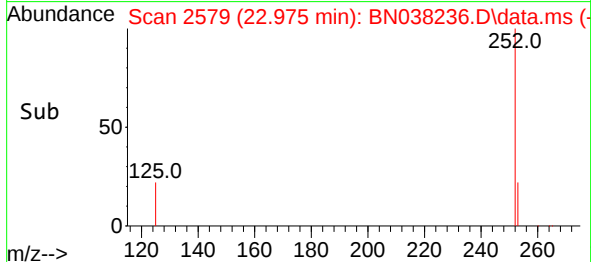
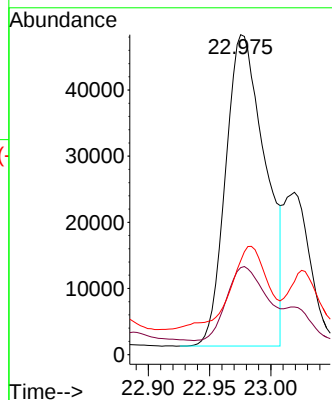
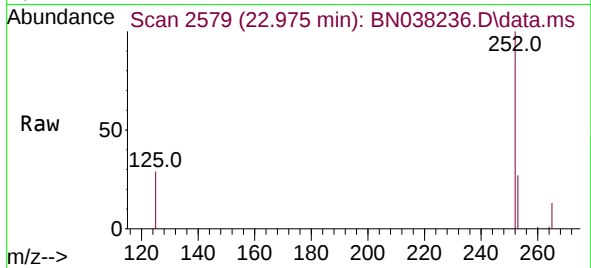




#37
Benzo(b)fluoranthene
Concen: 1.489 ng
RT: 22.975 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

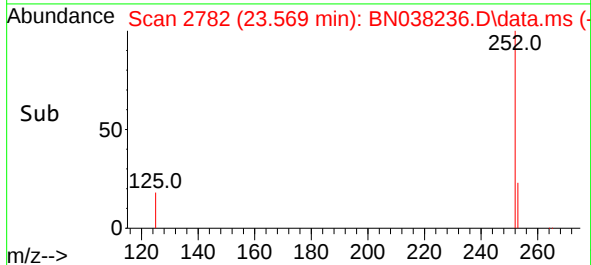
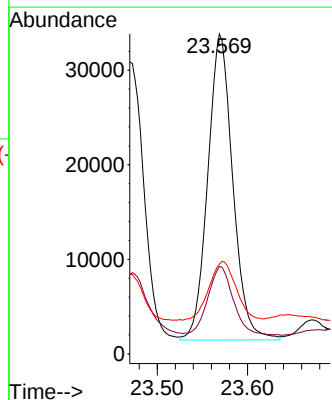
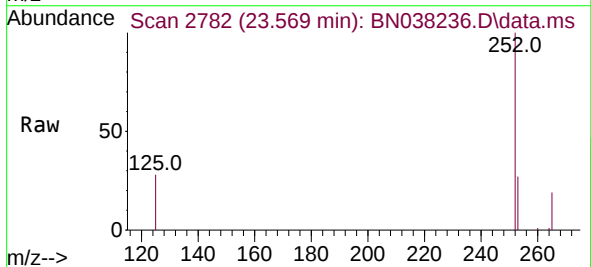
Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

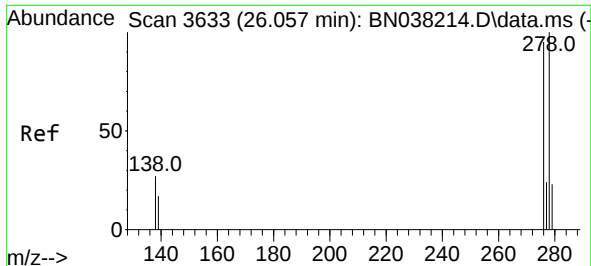
Tgt Ion:252 Resp: 106361
Ion Ratio Lower Upper
252 100
253 27.2 22.2 33.4
125 29.3 18.0 27.0#



#39
Benzo(a)pyrene
Concen: 1.040 ng
RT: 23.569 min Scan# 2782
Delta R.T. -0.009 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:252 Resp: 62275
Ion Ratio Lower Upper
252 100
253 27.3 25.3 37.9
125 28.1 25.2 37.8

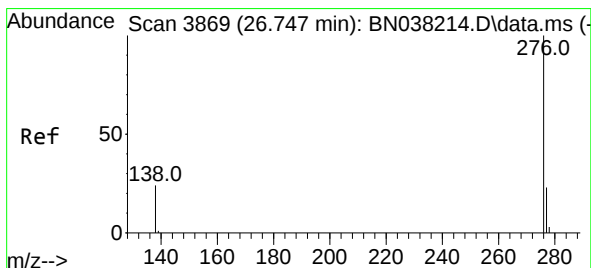
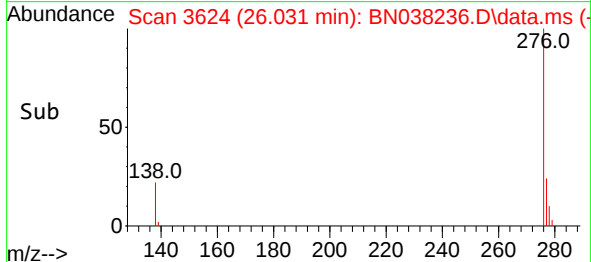
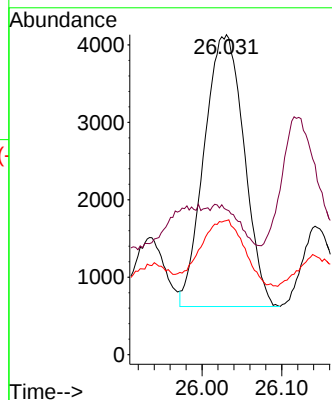
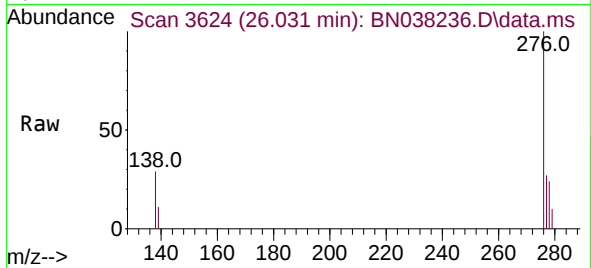




#40
Dibenzo(a,h)anthracene
Concen: 0.200 ng
RT: 26.031 min Scan# 3624
Delta R.T. -0.026 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Instrument :
BNA_N
ClientSampleId :
EME-TOP-SOIL

Tgt Ion:278 Resp: 12175
Ion Ratio Lower Upper
278 100
139 45.3 17.6 26.4#
279 41.9 24.2 36.4#



#41
Benzo(g,h,i)perylene
Concen: 0.844 ng
RT: 26.741 min Scan# 3867
Delta R.T. -0.006 min
Lab File: BN038236.D
Acq: 01 Dec 2025 21:29

Tgt Ion:276 Resp: 61441
Ion Ratio Lower Upper
276 100
277 25.6 20.2 30.2
138 28.5 20.8 31.2

