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 Data File : BN036603.D
 Acq On : 14 Mar 2025 11:21
 Operator : RC/JU
 Sample : Q1502-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 14 11:43:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

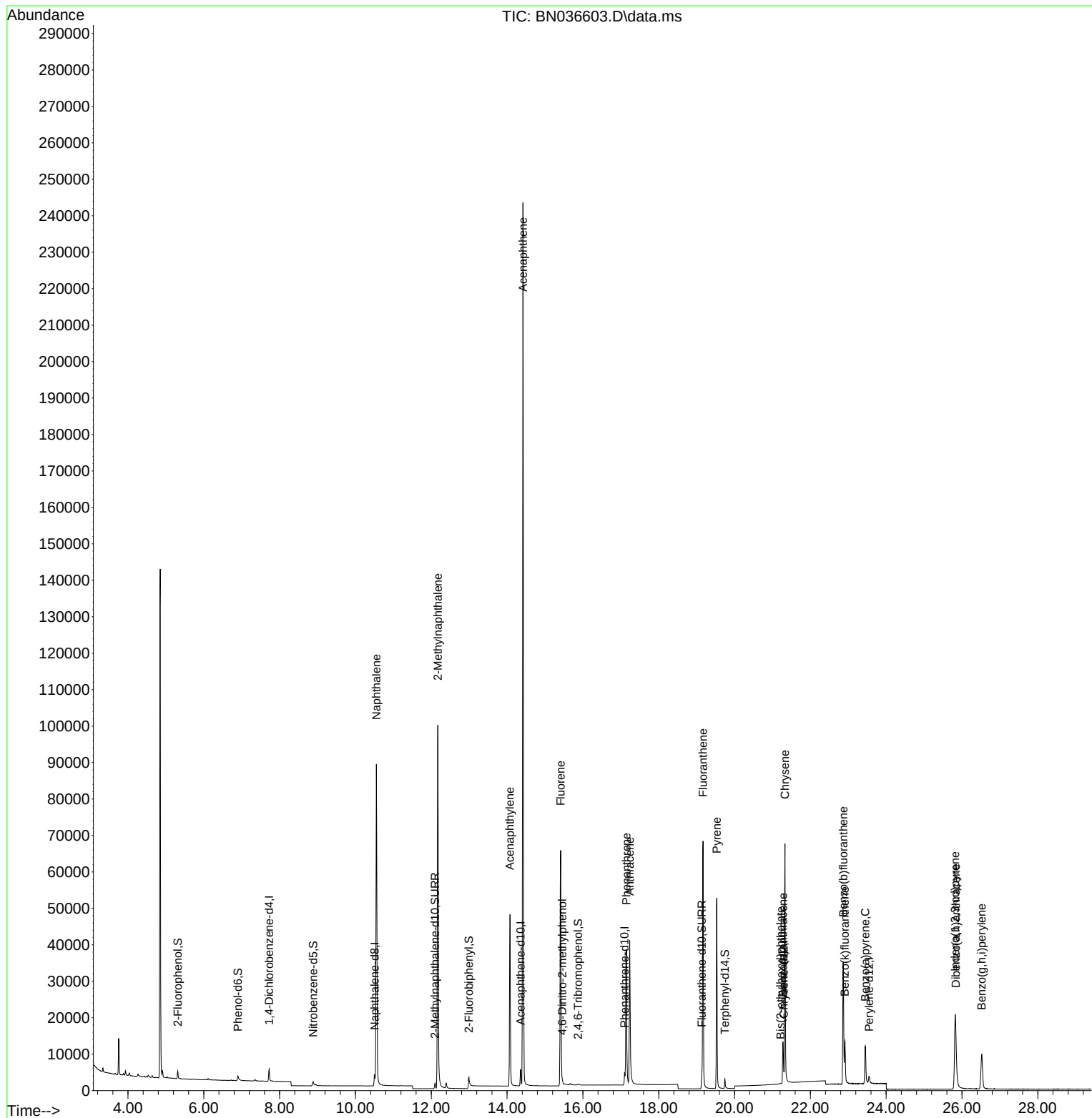
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1837	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4296	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	2463	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4992	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3361	0.400	ng	# 0.00
35) Perylene-d12	23.551	264	2893	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1550	0.362	ng	0.00
5) Phenol-d6	6.901	99	1742	0.329	ng	0.00
8) Nitrobenzene-d5	8.886	82	1545	0.331	ng	0.01
11) 2-Methylnaphthalene-d10	12.096	152	2321	0.363	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	256	0.229	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5290	0.369	ng	0.00
27) Fluoranthene-d10	19.136	212	5143	0.402	ng	0.00
31) Terphenyl-d14	19.745	244	3276	0.407	ng	0.00
Target Compounds						
9) Naphthalene	10.552	128	116095	9.187	ng	97
12) 2-Methylnaphthalene	12.172	142	73370	9.125	ng	99
16) Acenaphthylene	14.078	152	50637	4.357	ng	100
17) Acenaphthene	14.420	154	108429	14.251	ng	98
18) Fluorene	15.414	166	47677	4.632	ng	100
20) 4,6-Dinitro-2-methylph...	15.457	198	2	0.147	ng	# 1
25) Phenanthrene	17.149	178	45880	3.064	ng	100
26) Anthracene	17.235	178	47922	3.546	ng	99
28) Fluoranthene	19.169	202	64871	3.856	ng	99
30) Pyrene	19.531	202	49034	2.984	ng	100
32) Benzo(a)anthracene	21.277	228	9966	0.853	ng	99
33) Chrysene	21.331	228	58070	4.547	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	182	0.022	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.820	276	38177	3.656	ng	94
37) Benzo(b)fluoranthene	22.867	252	42724	4.058	ng	# 84
38) Benzo(k)fluoranthene	22.911	252	16012	1.450	ng	# 86
39) Benzo(a)pyrene	23.449	252	16926	1.909	ng	# 79
40) Dibenzo(a,h)anthracene	25.841	278	11055	1.360	ng	# 85
41) Benzo(g,h,i)perylene	26.522	276	19668	2.115	ng	93

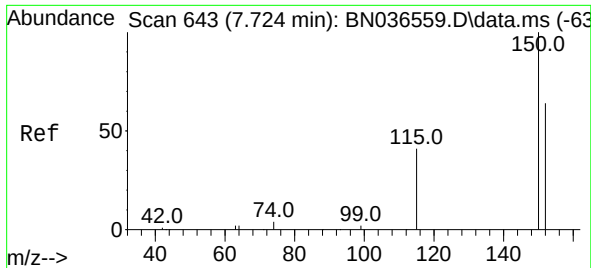
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036603.D
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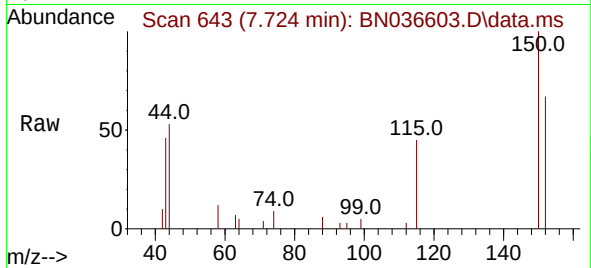
Quant Time: Mar 14 11:43:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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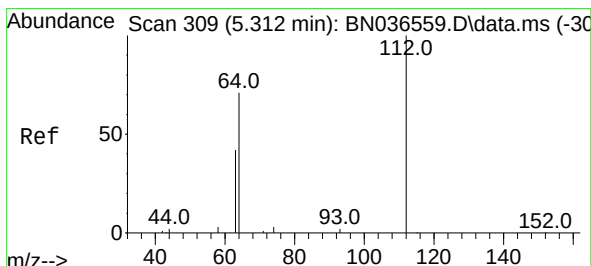
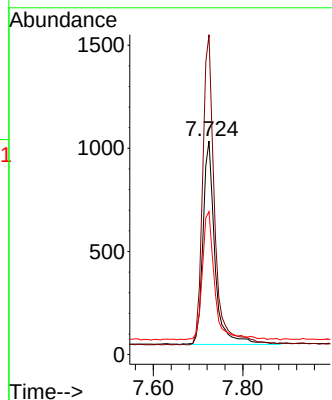
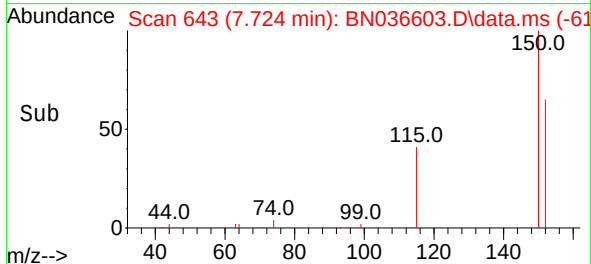


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 643
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

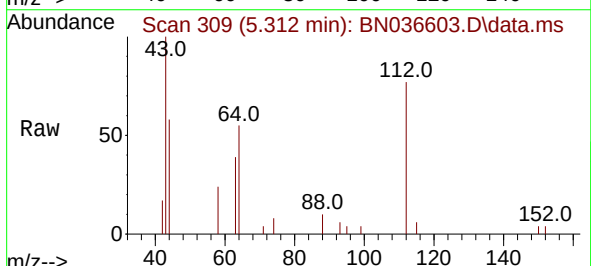
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BNA_N
ClientSampleId :
RR-PAH-WP



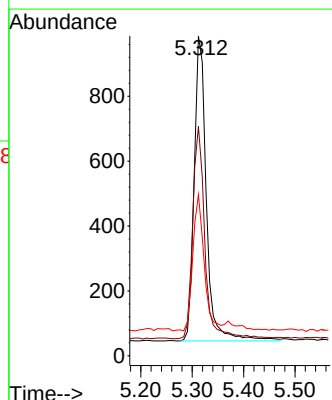
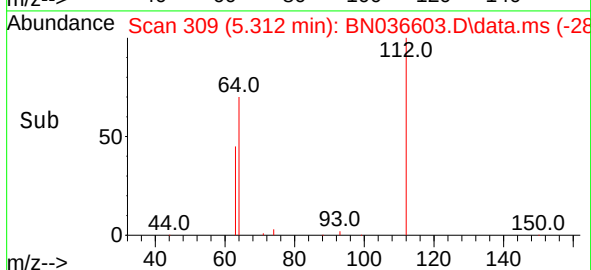
Tgt Ion:152 Resp: 1837
Ion Ratio Lower Upper
152 100
150 149.9 123.7 185.5
115 67.0 54.3 81.5

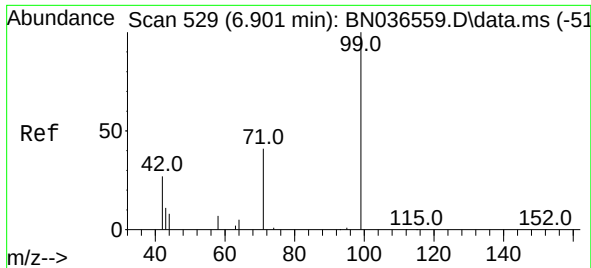


#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21



Tgt Ion:112 Resp: 1550
Ion Ratio Lower Upper
112 100
64 69.4 53.1 79.7
63 40.7 31.8 47.8

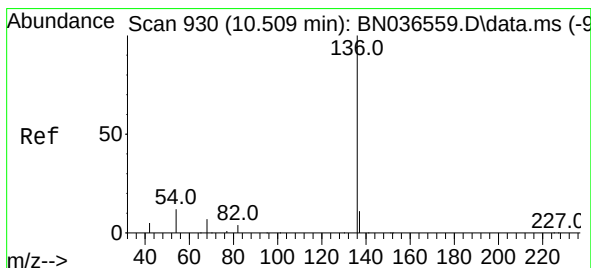
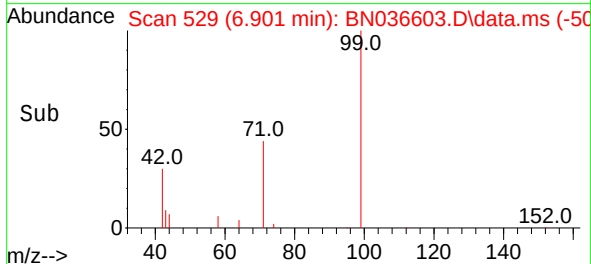
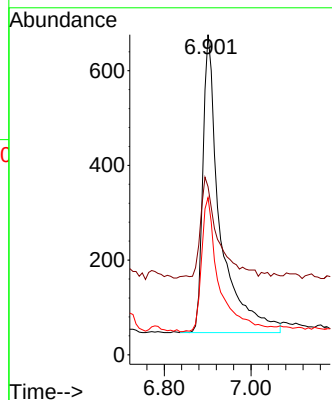
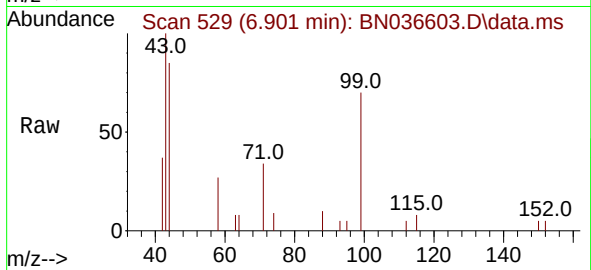




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

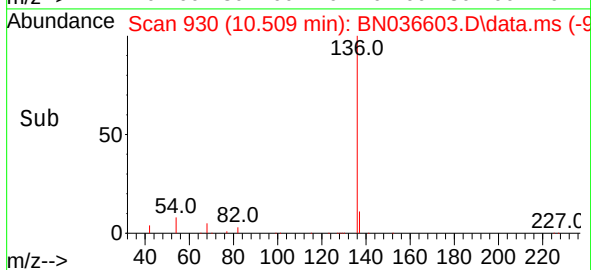
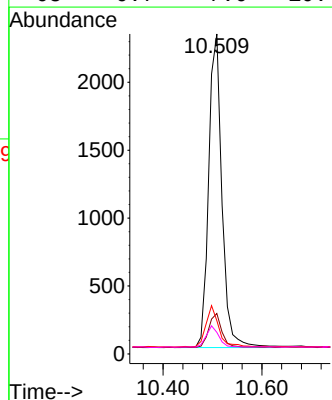
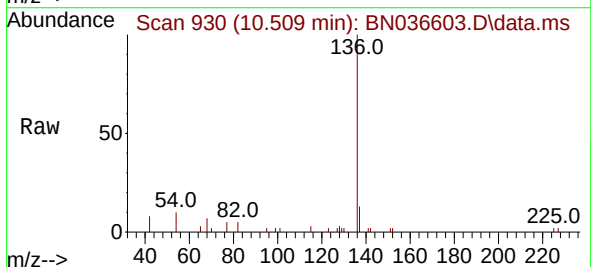
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

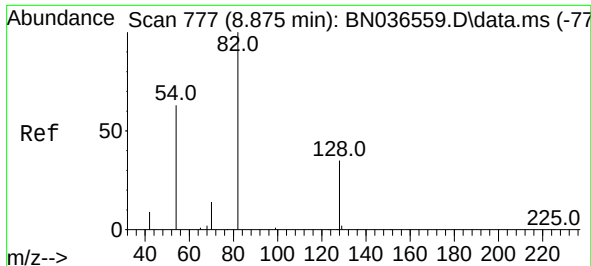
Tgt Ion: 99 Resp: 1742
Ion Ratio Lower Upper
99 100
42 34.6 26.5 39.7
71 45.8 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion: 136 Resp: 4296
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 10.4 11.5 17.3#
68 6.7 7.0 10.4#

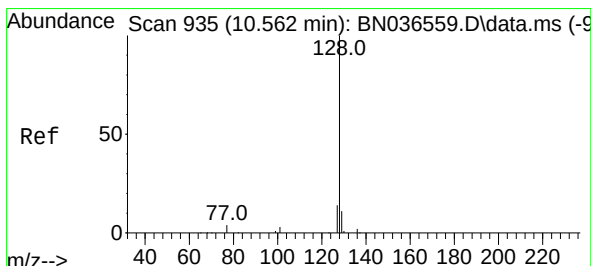
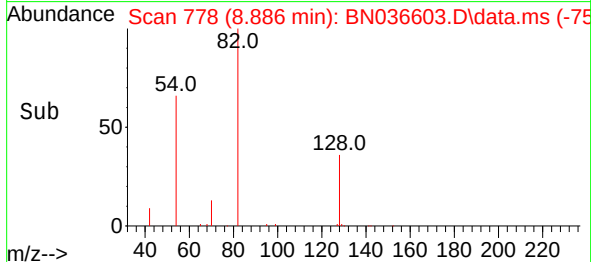
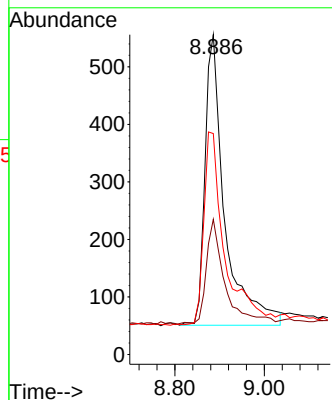
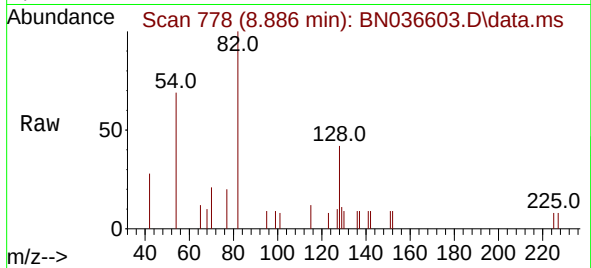




#8
 Nitrobenzene-d5
 Concen: 0.331 ng
 RT: 8.886 min Scan# 71
 Delta R.T. 0.011 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

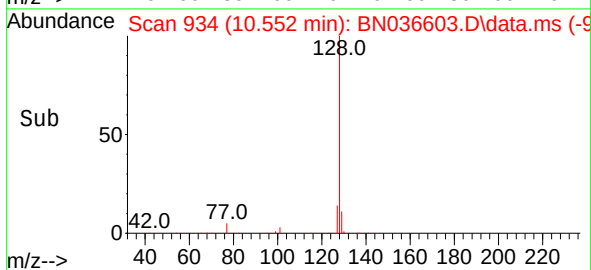
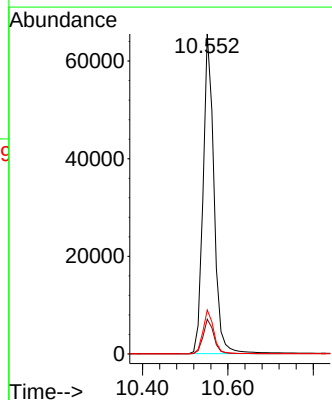
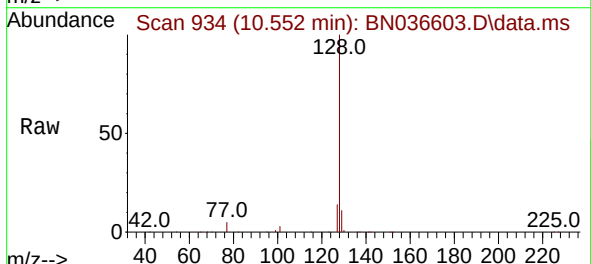
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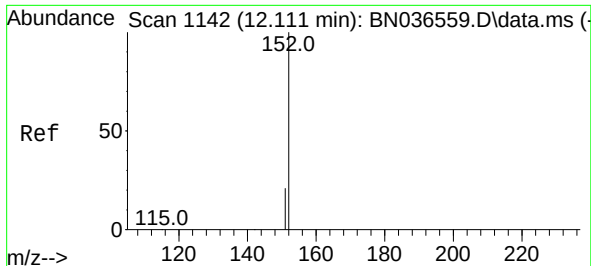
Tgt Ion: 82 Resp: 1545
 Ion Ratio Lower Upper
 82 100
 128 42.3 30.6 45.8
 54 69.1 52.2 78.4



#9
 Naphthalene
 Concen: 9.187 ng
 RT: 10.552 min Scan# 934
 Delta R.T. -0.011 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Tgt Ion: 128 Resp: 116095
 Ion Ratio Lower Upper
 128 100
 129 10.9 9.8 14.6
 127 13.8 11.8 17.8





#11

2-Methylnaphthalene-d10

Concen: 0.363 ng

RT: 12.096 min Scan# 1139

Delta R.T. -0.015 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

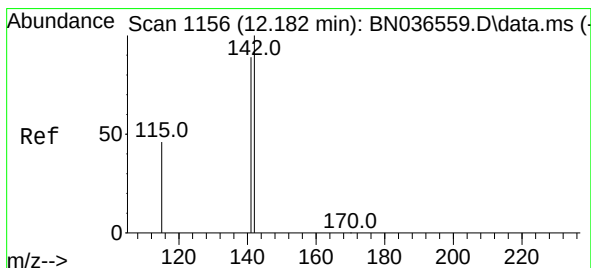
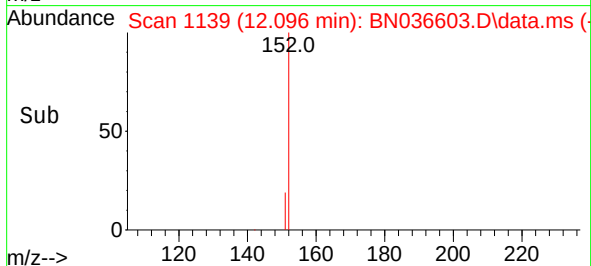
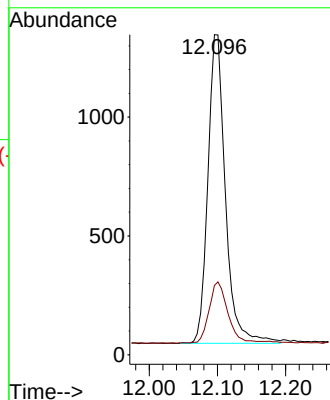
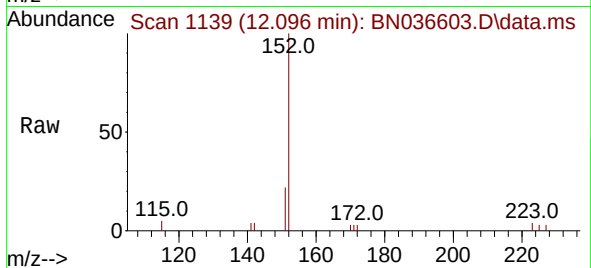
RR-PAH-WP

Tgt Ion:152 Resp: 2321

Ion Ratio Lower Upper

152 100

151 21.4 17.0 25.6



#12

2-Methylnaphthalene

Concen: 9.125 ng

RT: 12.172 min Scan# 1154

Delta R.T. -0.010 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

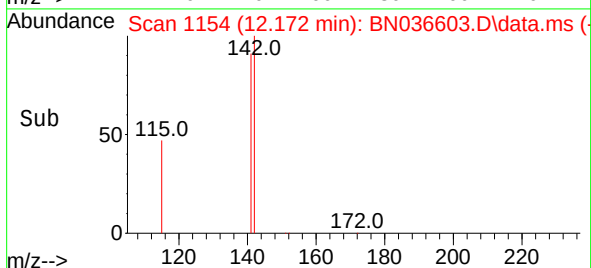
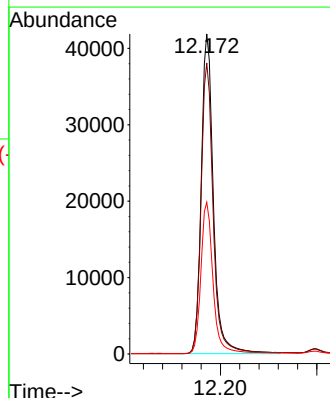
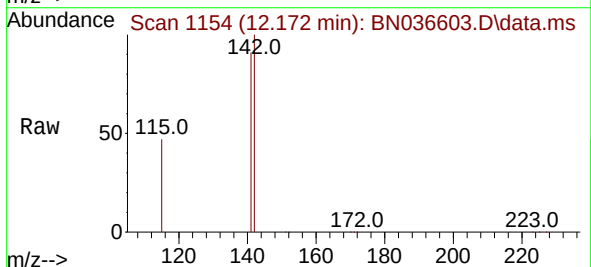
Tgt Ion:142 Resp: 73370

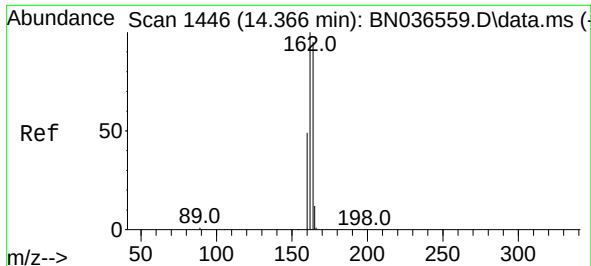
Ion Ratio Lower Upper

142 100

141 90.9 71.7 107.5

115 47.4 38.3 57.5

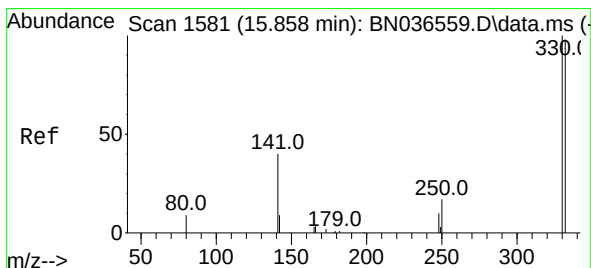
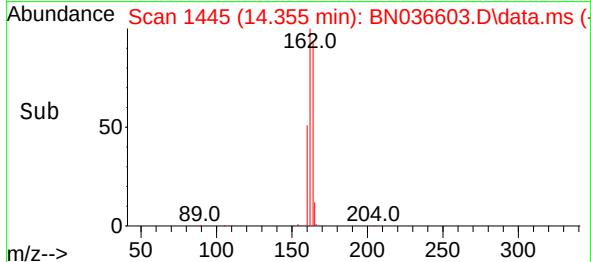
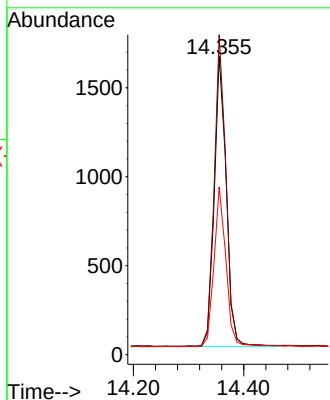
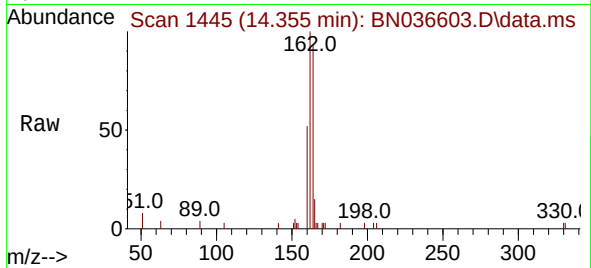




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

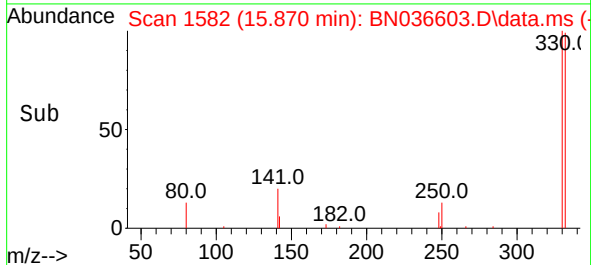
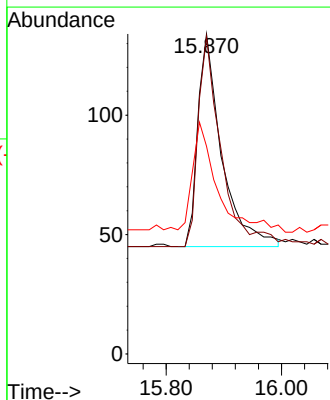
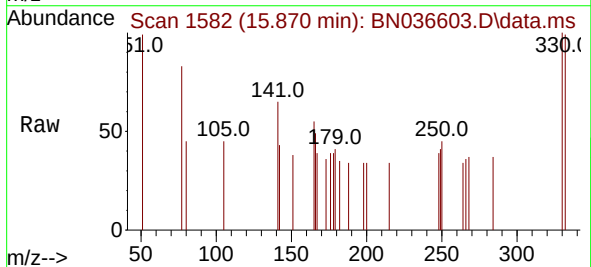
Instrument :
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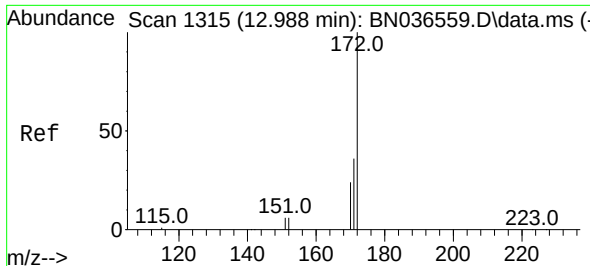
Tgt Ion:164 Resp: 2463
Ion Ratio Lower Upper
164 100
162 107.1 84.2 126.2
160 56.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.229 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:330 Resp: 256
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 49.2 43.4 65.2

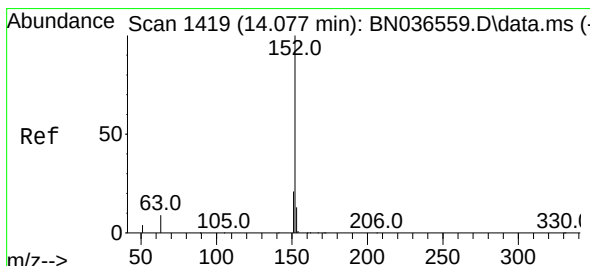
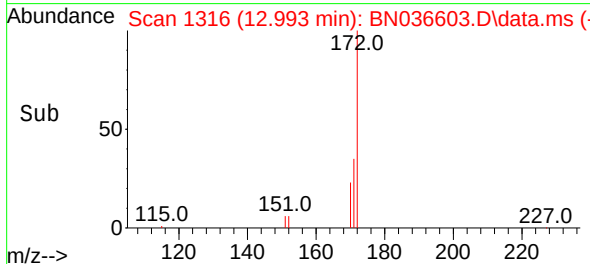
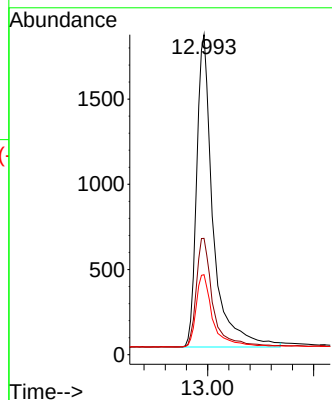
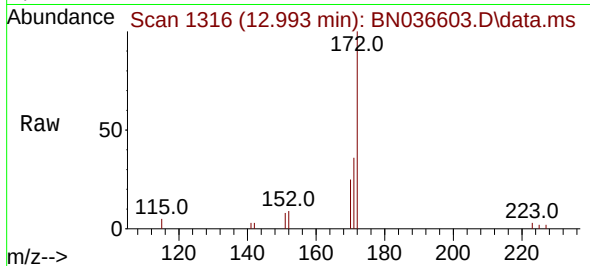




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

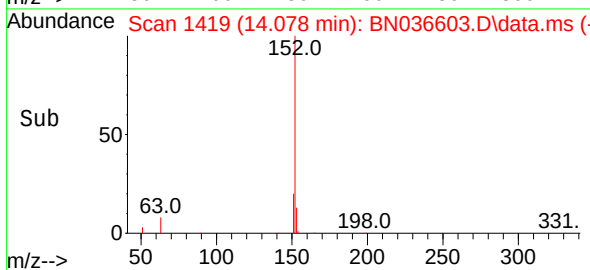
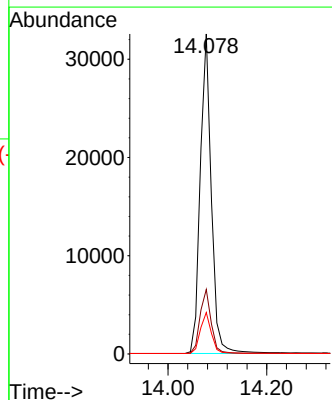
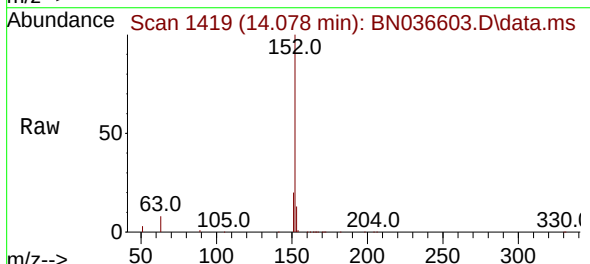
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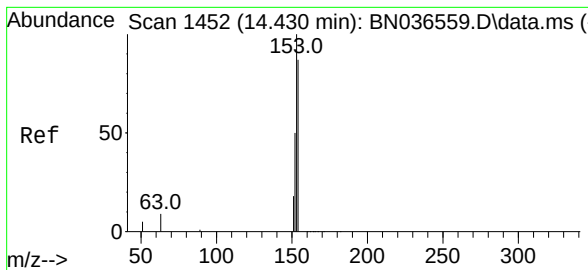
Tgt Ion:172 Resp: 5290
Ion Ratio Lower Upper
172 100
171 36.4 29.5 44.3
170 25.0 20.2 30.4



#16
Acenaphthylene
Concen: 4.357 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:152 Resp: 50637
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4
153 12.9 10.6 15.8





#17

Acenaphthene

Concen: 14.251 ng

RT: 14.420 min Scan# 1452

Delta R.T. -0.011 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

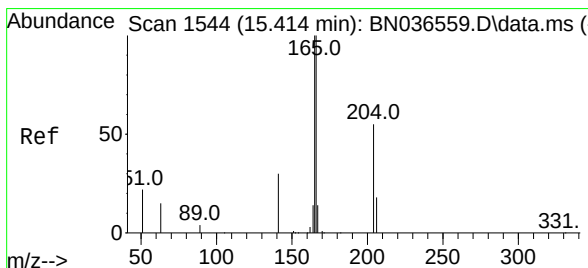
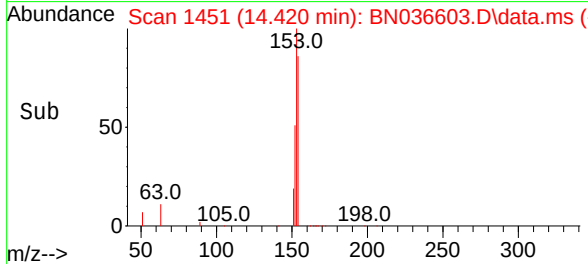
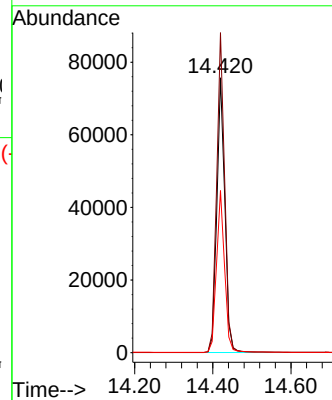
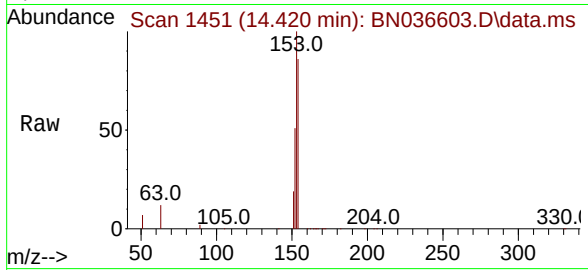
Tgt Ion:154 Resp: 108429

Ion Ratio Lower Upper

154 100

153 116.3 94.1 141.1

152 59.6 49.8 74.6



#18

Fluorene

Concen: 4.632 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

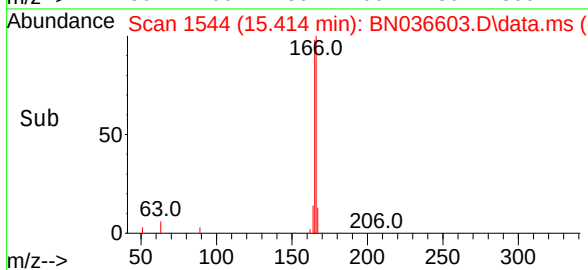
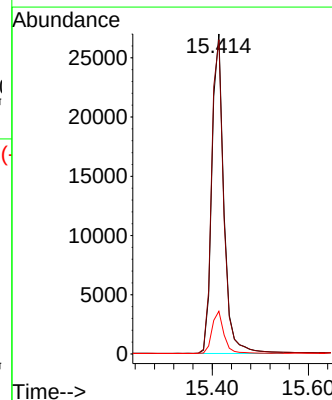
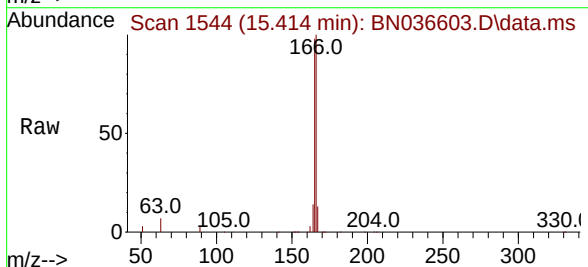
Tgt Ion:166 Resp: 47677

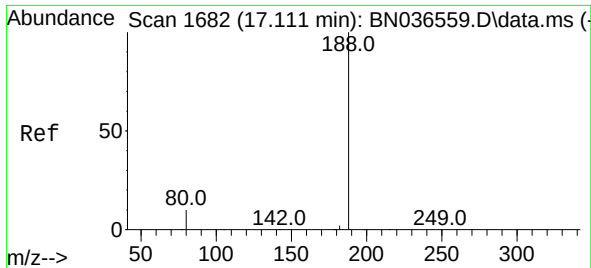
Ion Ratio Lower Upper

166 100

165 100.2 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

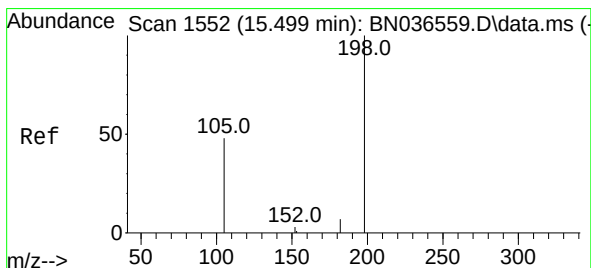
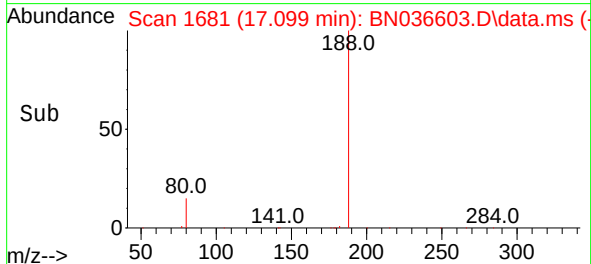
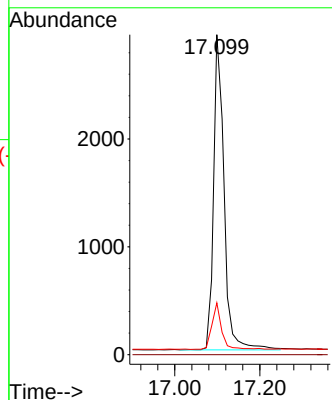
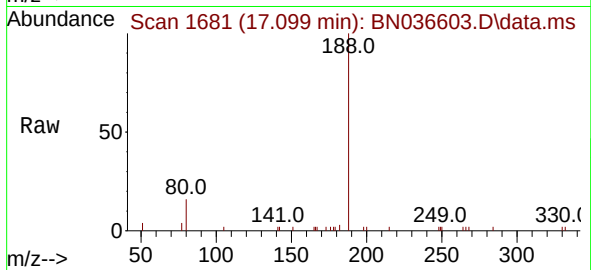
Tgt Ion:188 Resp: 4992

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.2 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.147 ng

RT: 15.457 min Scan# 1548

Delta R.T. -0.042 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

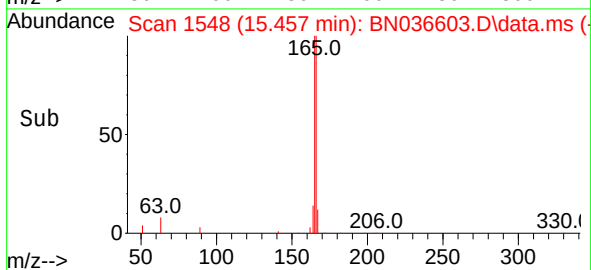
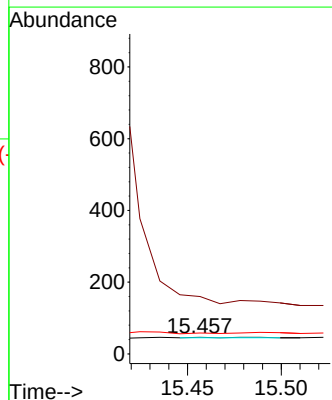
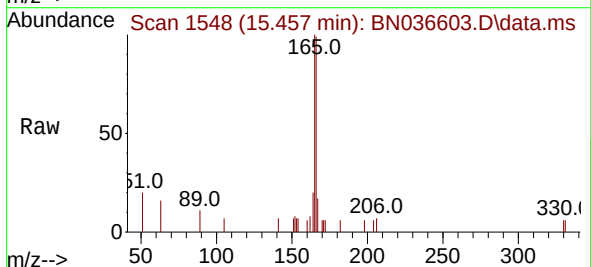
Tgt Ion:198 Resp: 2

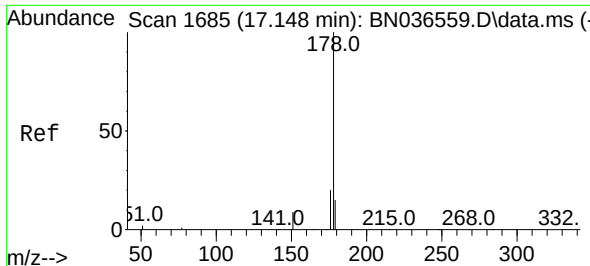
Ion Ratio Lower Upper

198 100

51 347.8 107.9 161.9#

105 126.1 56.2 84.2#

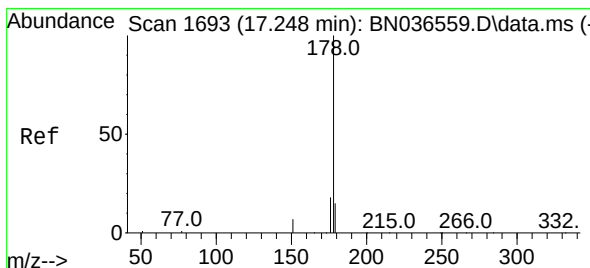
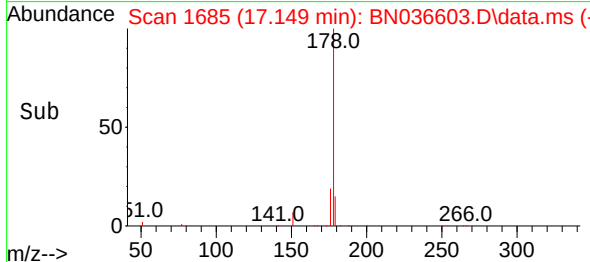
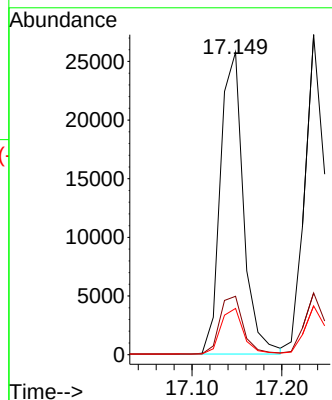
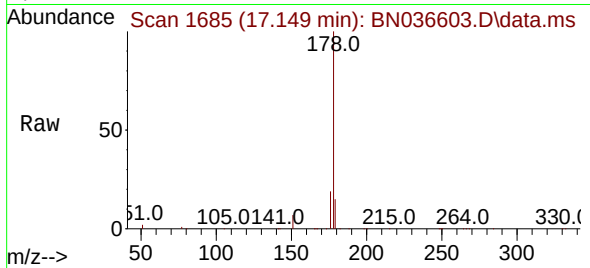




#25
Phenanthrene
Concen: 3.064 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

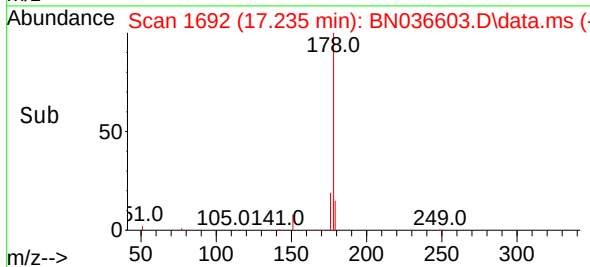
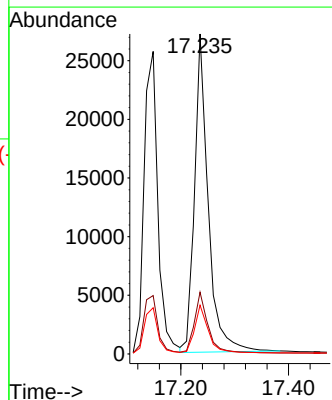
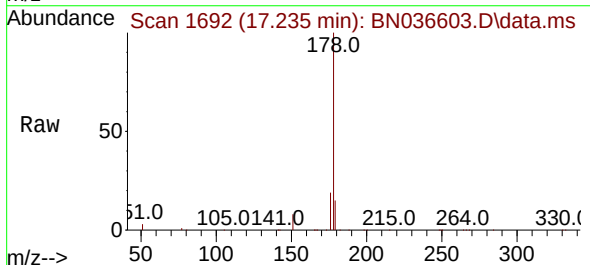
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

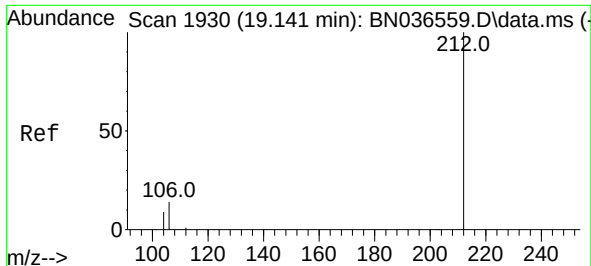
Tgt Ion:178 Resp: 45880
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.0 12.2 18.4



#26
Anthracene
Concen: 3.546 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:178 Resp: 47922
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.3 12.6 18.8

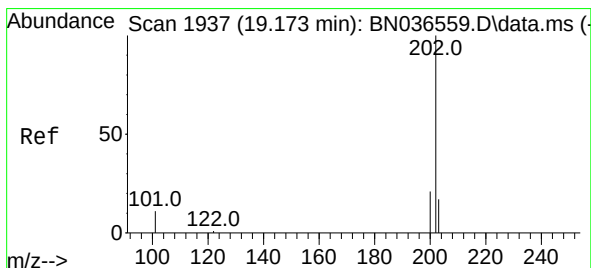
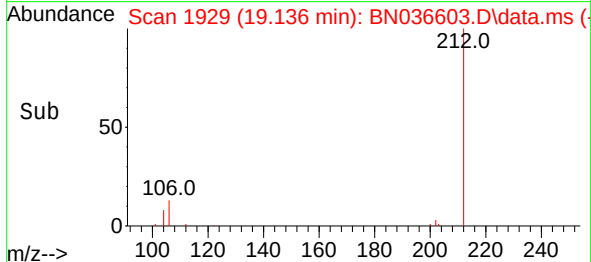
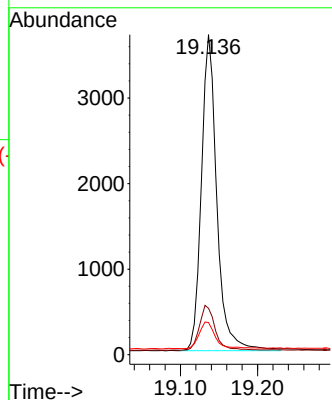
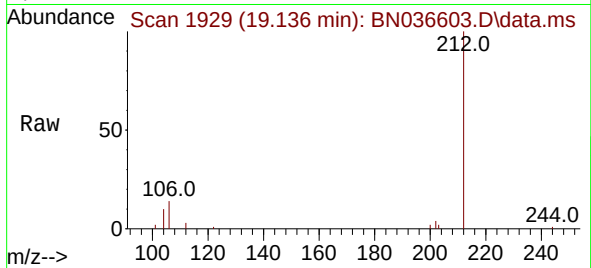




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

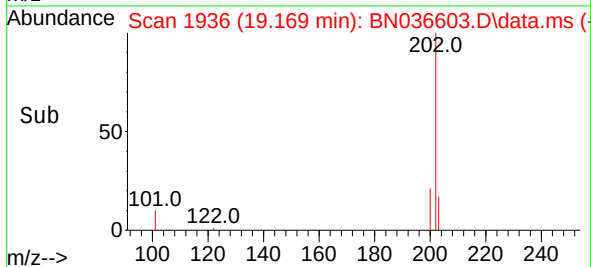
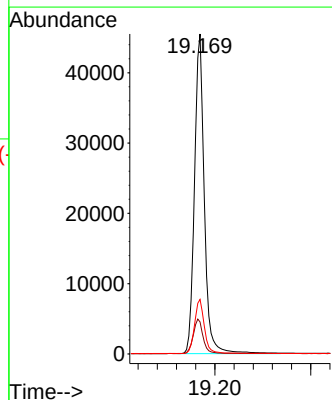
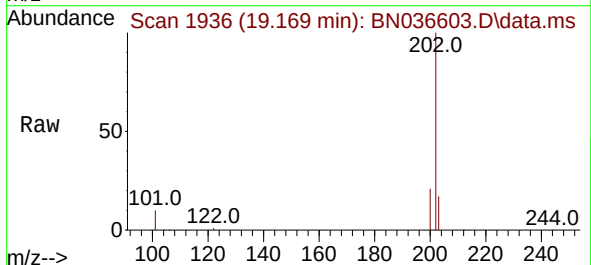
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

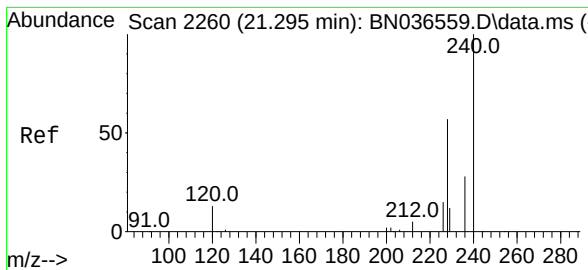
Tgt Ion:212 Resp: 5143
Ion Ratio Lower Upper
212 100
106 14.4 11.8 17.6
104 8.9 7.3 10.9



#28
Fluoranthene
Concen: 3.856 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:202 Resp: 64871
Ion Ratio Lower Upper
202 100
101 10.8 9.4 14.0
203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

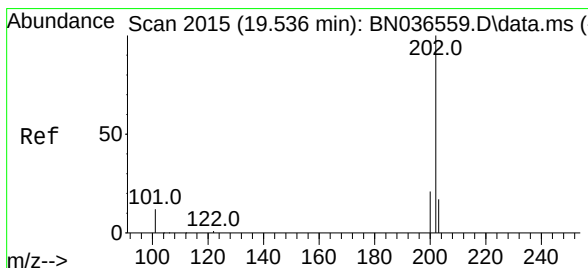
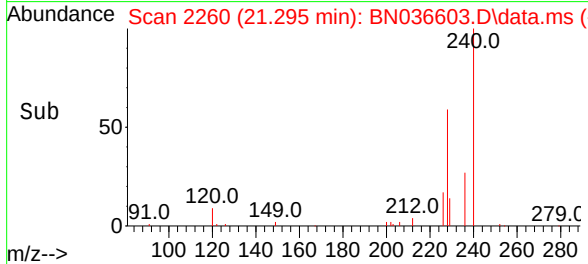
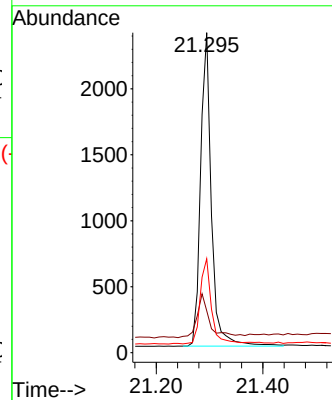
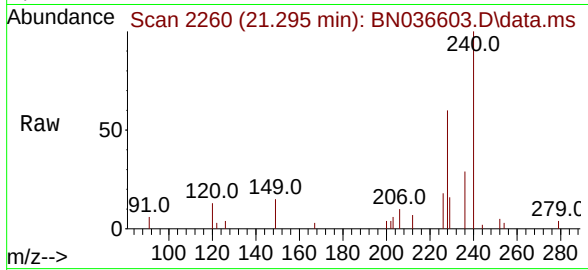
Tgt Ion:240 Resp: 3361

Ion Ratio Lower Upper

240 100

120 13.1 14.6 22.0#

236 29.3 24.1 36.1



#30

Pyrene

Concen: 2.984 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

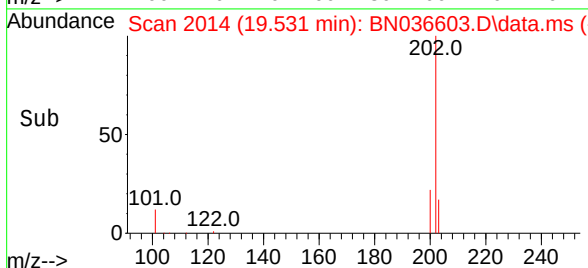
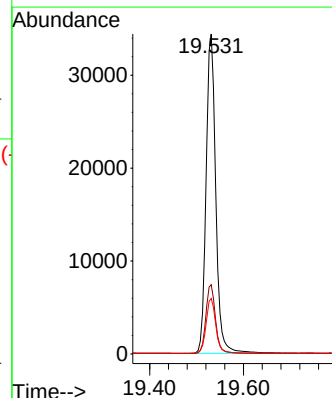
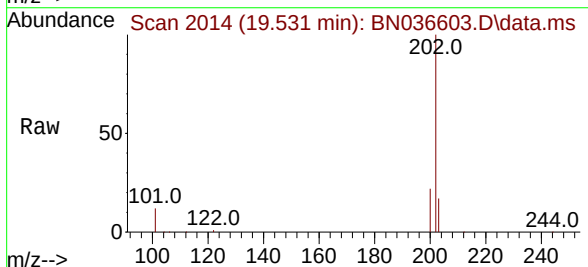
Tgt Ion:202 Resp: 49034

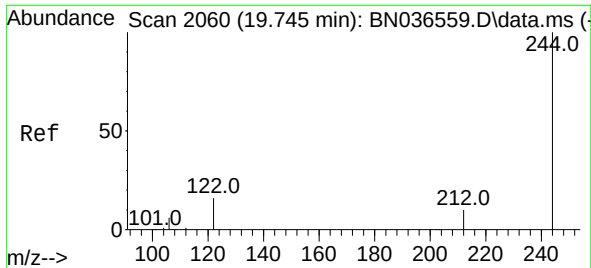
Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.4 14.1 21.1

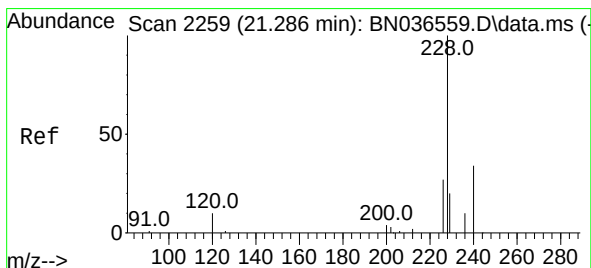
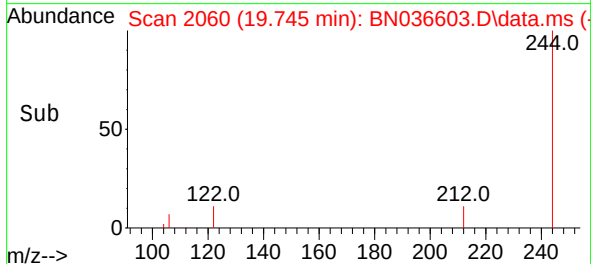
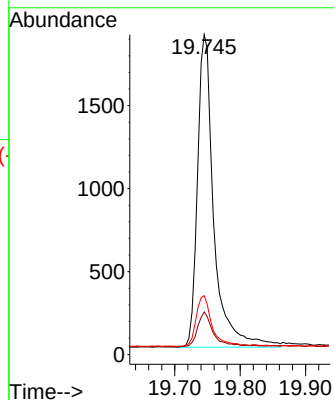
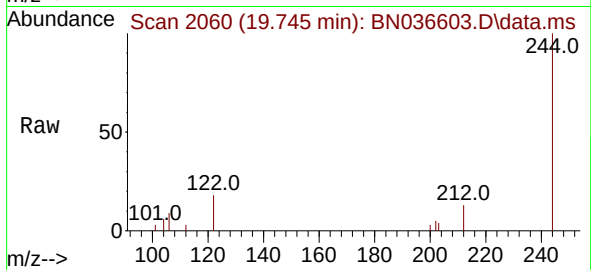




#31
 Terphenyl-d14
 Concen: 0.407 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

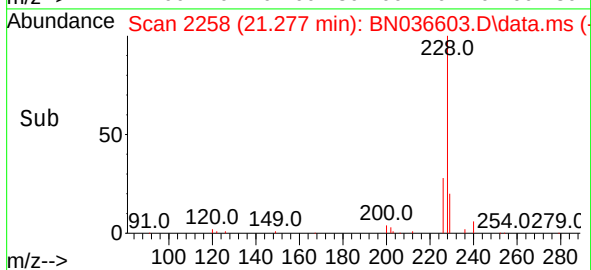
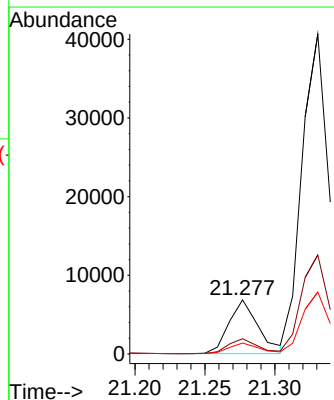
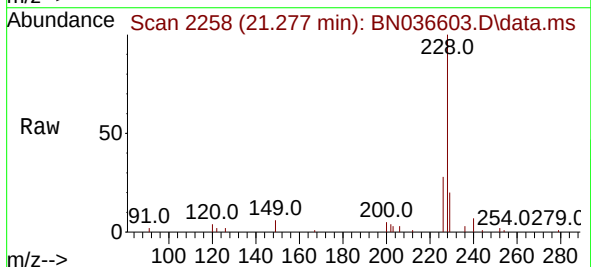
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

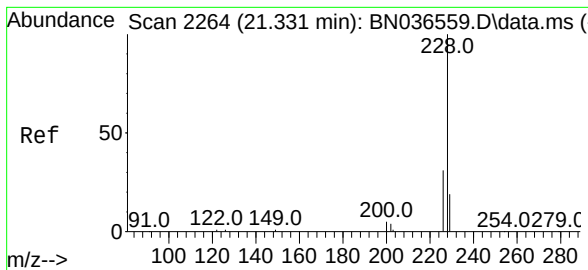
Tgt Ion:244 Resp: 3276
 Ion Ratio Lower Upper
 244 100
 212 13.3 9.6 14.4
 122 18.4 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.853 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. -0.009 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Tgt Ion:228 Resp: 9966
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.5 33.7
 229 20.2 16.6 25.0





#33

Chrysene

Concen: 4.547 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.000 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

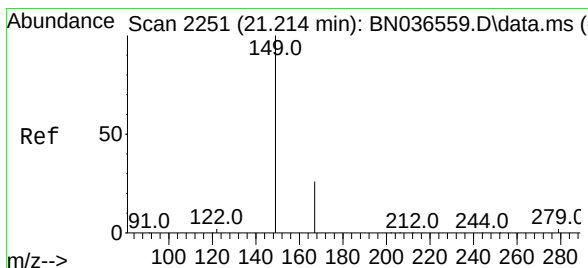
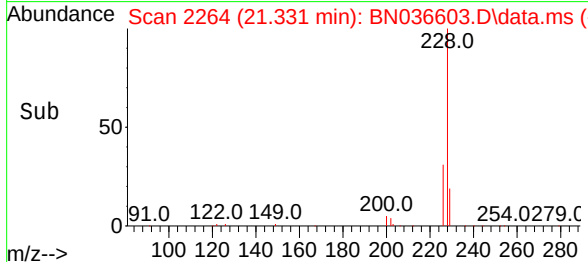
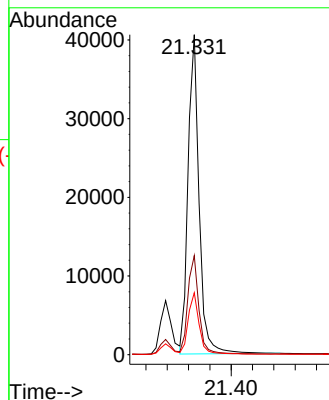
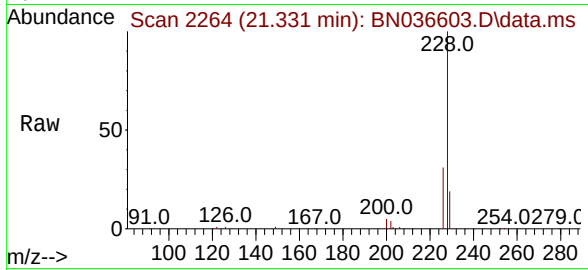
Tgt Ion:228 Resp: 58070

Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.022 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

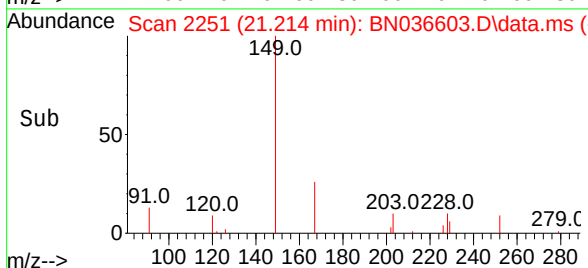
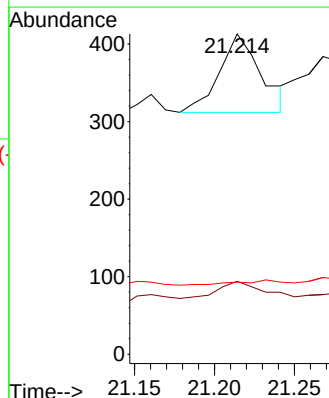
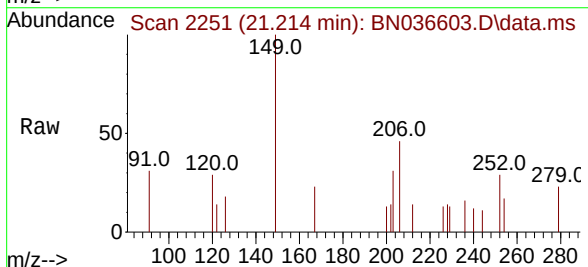
Tgt Ion:149 Resp: 182

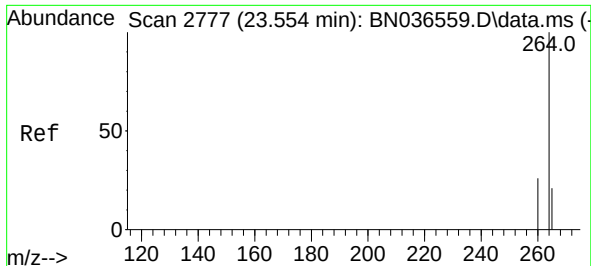
Ion Ratio Lower Upper

149 100

167 22.5 20.7 31.1

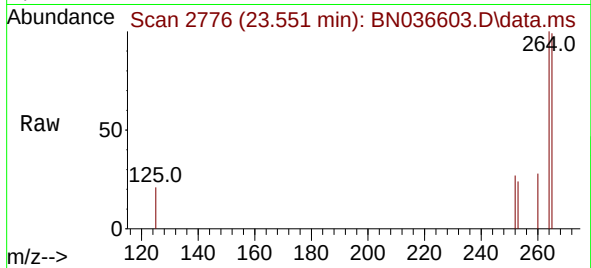
279 7.7 3.6 5.4#



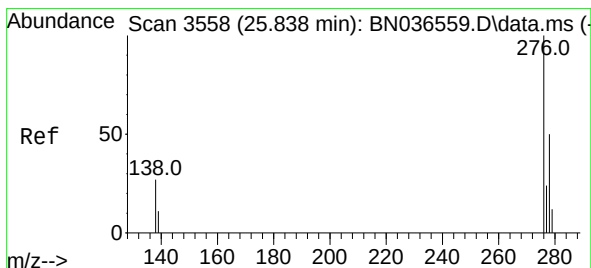
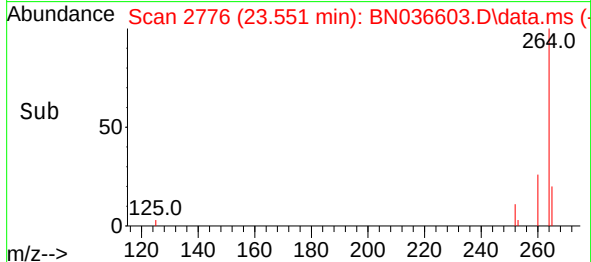
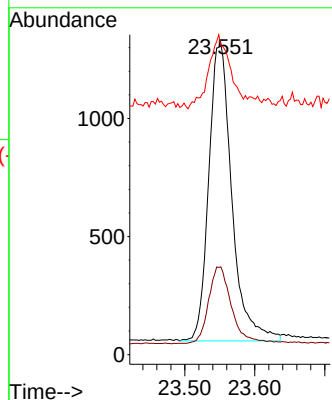


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.551 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

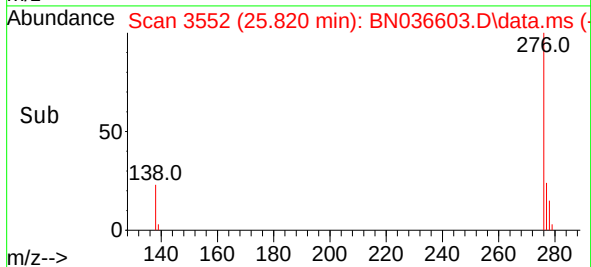
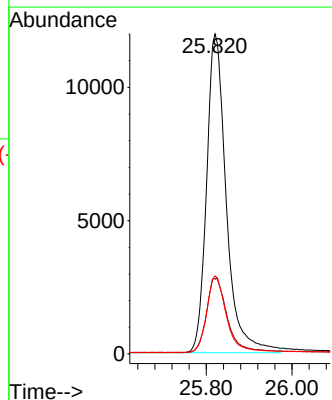
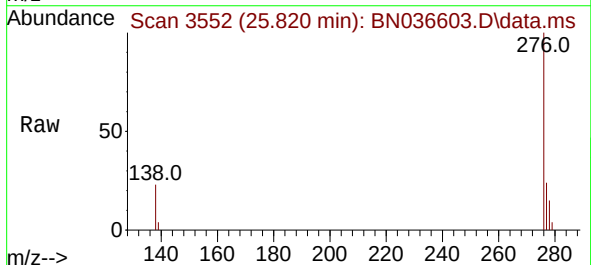


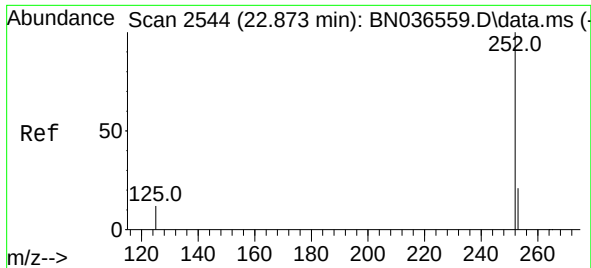
Tgt Ion:264 Resp: 2893
 Ion Ratio Lower Upper
 264 100
 260 28.2 22.6 33.8
 265 99.2 88.1 132.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.656 ng
 RT: 25.820 min Scan# 3552
 Delta R.T. -0.017 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Tgt Ion:276 Resp: 38177
 Ion Ratio Lower Upper
 276 100
 138 24.7 23.4 35.2
 277 23.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 4.058 ng

RT: 22.867 min Scan# 2542

Delta R.T. -0.006 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

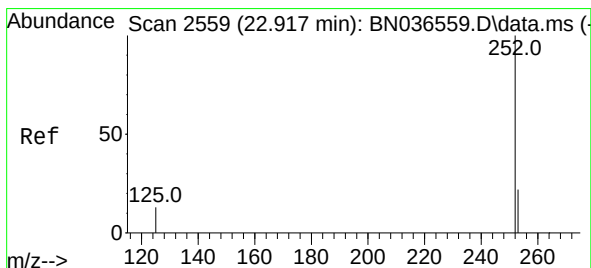
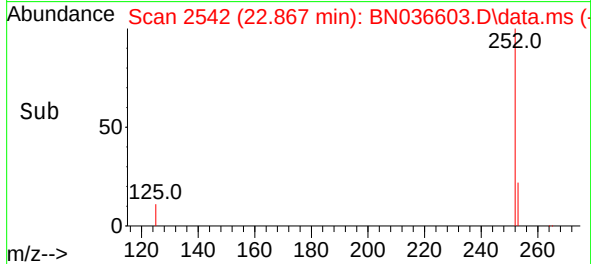
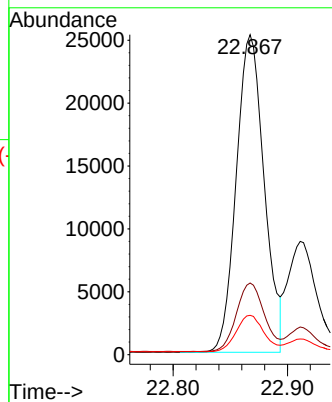
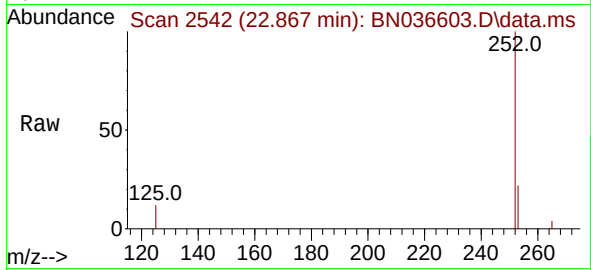
Tgt Ion:252 Resp: 42724

Ion Ratio Lower Upper

252 100

253 22.4 23.9 35.9#

125 12.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.450 ng

RT: 22.911 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

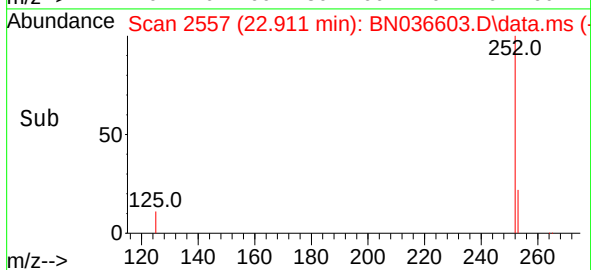
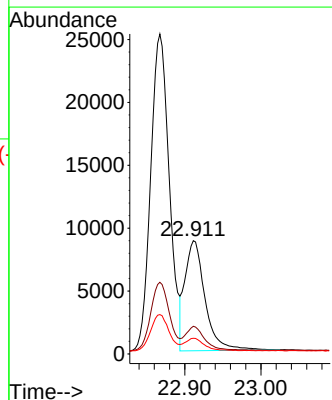
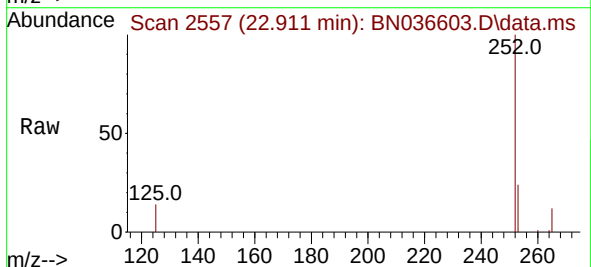
Tgt Ion:252 Resp: 16012

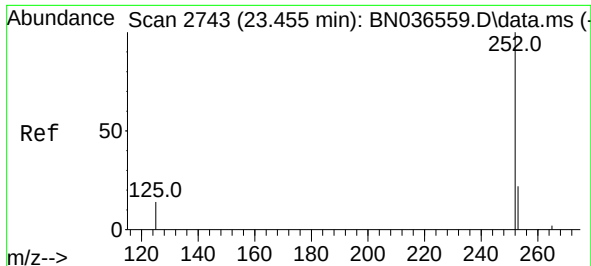
Ion Ratio Lower Upper

252 100

253 24.5 24.6 36.8#

125 13.8 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.909 ng

RT: 23.449 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036603.D

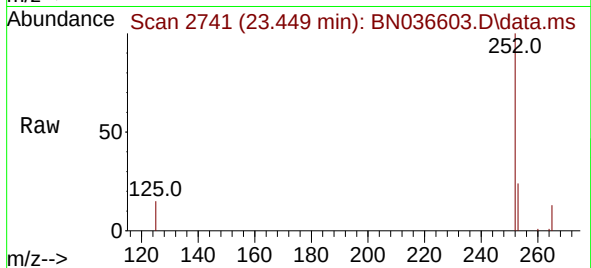
Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP



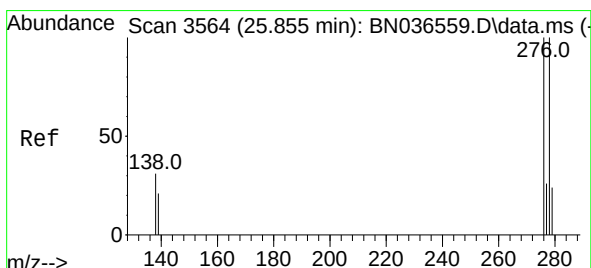
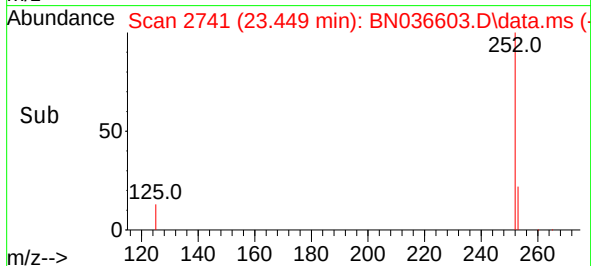
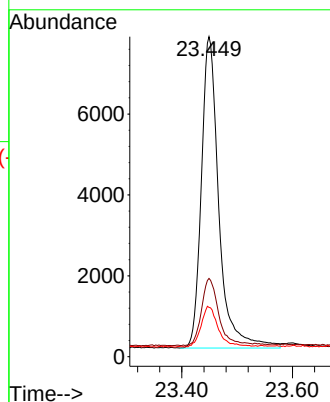
Tgt Ion:252 Resp: 16926

Ion Ratio Lower Upper

252 100

253 24.5 27.8 41.8#

125 15.4 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.360 ng

RT: 25.841 min Scan# 3559

Delta R.T. -0.015 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

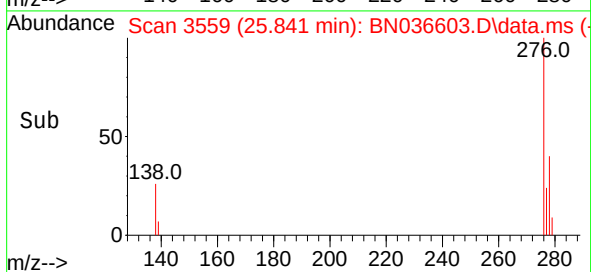
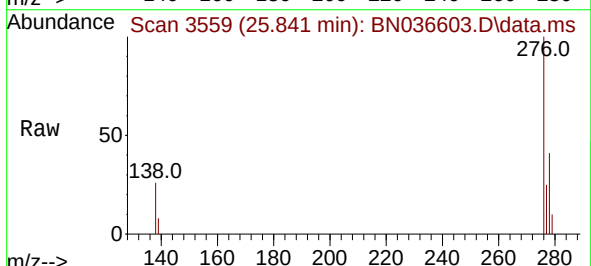
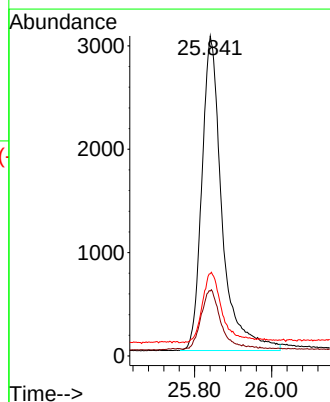
Tgt Ion:278 Resp: 11055

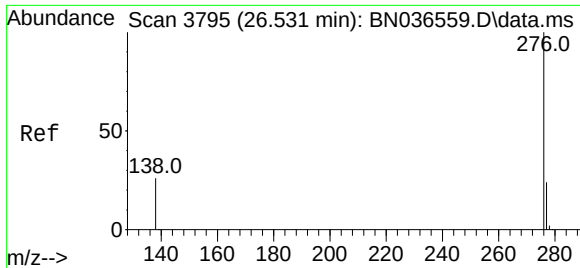
Ion Ratio Lower Upper

278 100

139 20.3 20.8 31.2#

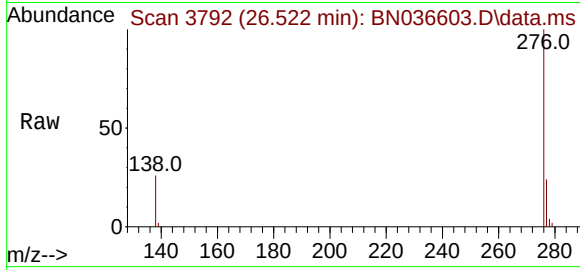
279 25.7 28.8 43.2#





#41
 Benzo(g,h,i)perylene
 Concen: 2.115 ng
 RT: 26.522 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN036603.D
 Acq: 14 Mar 2025 11:21

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP



Tgt Ion:	276	Resp:	19668
Ion Ratio	Lower	Upper	
276	100		
277	24.1	22.2	33.4
138	25.8	24.1	36.1

