

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037875.D
 Acq On : 24 Sep 2025 14:12
 Operator : RC/JU
 Sample : Q3015-21
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WP

Quant Time: Sep 24 14:48:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

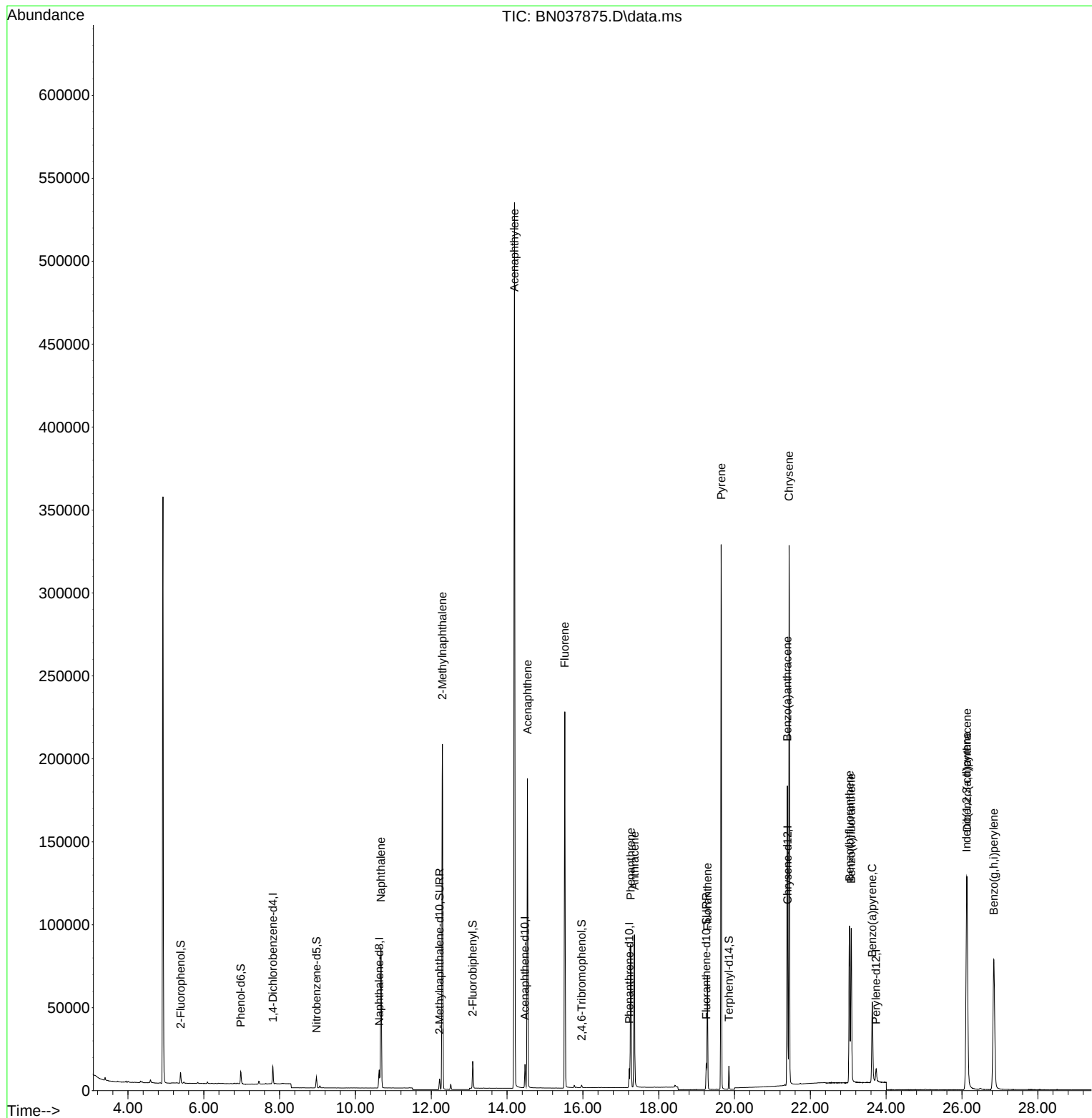
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5191	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14257	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7470	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	14151	0.400	ng	0.00
29) Chrysene-d12	21.402	240	14100	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	11154	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5183	0.438	ng	0.00
5) Phenol-d6	6.973	99	6784	0.436	ng	0.00
8) Nitrobenzene-d5	8.971	82	5155	0.474	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8521	0.430	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	892	0.315	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14475	0.473	ng	0.00
27) Fluoranthene-d10	19.257	212	16255	0.457	ng	0.00
31) Terphenyl-d14	19.852	244	12604	0.449	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.669	128	116901	2.976	ng	99
12) 2-Methylnaphthalene	12.294	142	145103	5.656	ng	98
16) Acenaphthylene	14.195	152	543865	16.035	ng	100
17) Acenaphthene	14.537	154	86337	3.573	ng	98
18) Fluorene	15.523	166	136092	4.656	ng	100
25) Phenanthrene	17.260	178	87363	1.876	ng	99
26) Anthracene	17.360	178	103041	2.551	ng	99
28) Fluoranthene	19.285	202	60612	1.182	ng	100
30) Pyrene	19.648	202	275385	4.947	ng	99
32) Benzo(a)anthracene	21.393	228	151244	3.069	ng	98
33) Chrysene	21.438	228	272271	5.109	ng	99
36) Indeno(1,2,3-cd)pyrene	26.121	276	98747	1.938	ng	# 91
37) Benzo(b)fluoranthene	23.031	252	123046	2.558	ng	# 94
38) Benzo(k)fluoranthene	23.078	252	124587	2.574	ng	# 93
39) Benzo(a)pyrene	23.633	252	76254	2.004	ng	# 90
40) Dibenzo(a,h)anthracene	26.130	278	173638	4.363	ng	96
41) Benzo(g,h,i)perylene	26.838	276	173660	4.154	ng	97

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

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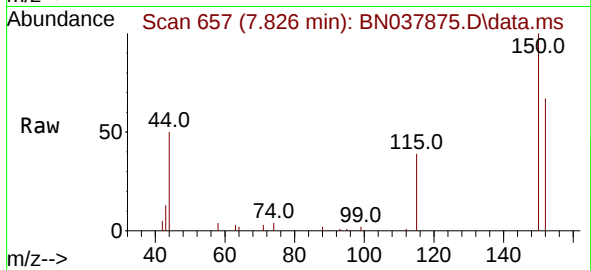
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
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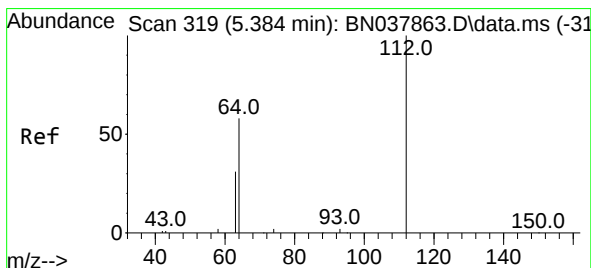
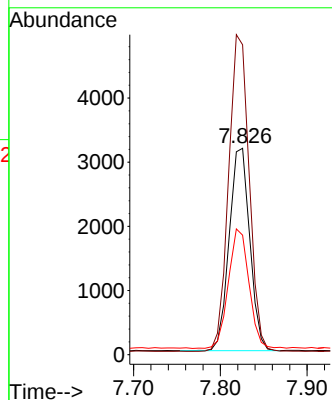
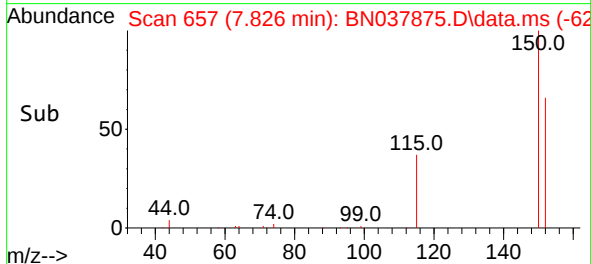


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

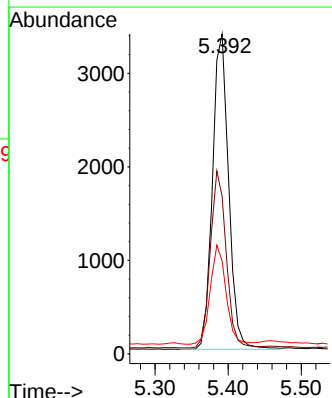
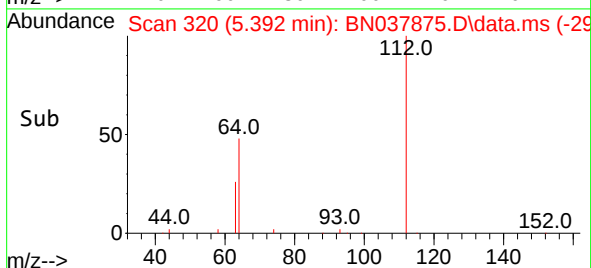
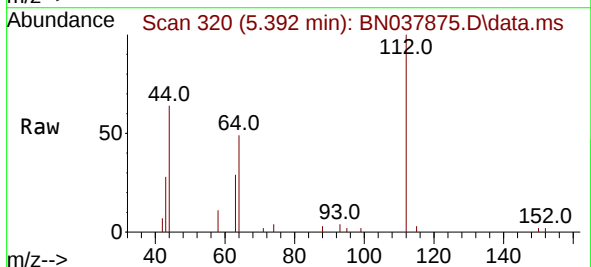


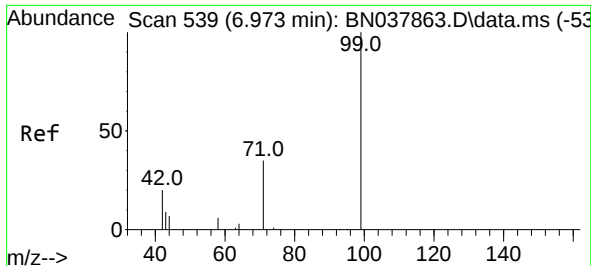
Tgt Ion:152 Resp: 5191
Ion Ratio Lower Upper
152 100
150 150.2 121.0 181.4
115 58.0 47.4 71.0



#4
2-Fluorophenol
Concen: 0.438 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

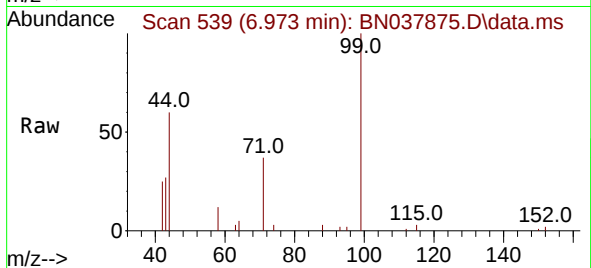
Tgt Ion:112 Resp: 5183
Ion Ratio Lower Upper
112 100
64 55.0 44.6 66.8
63 30.6 24.9 37.3



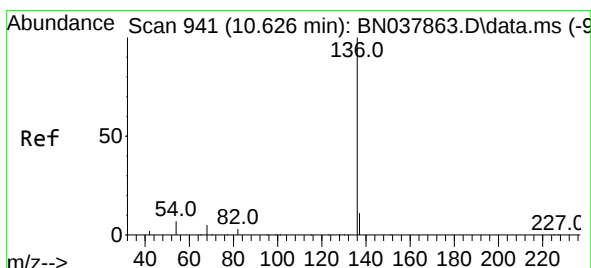
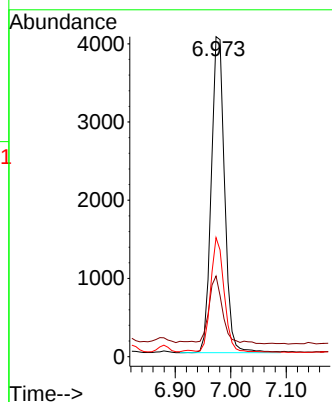
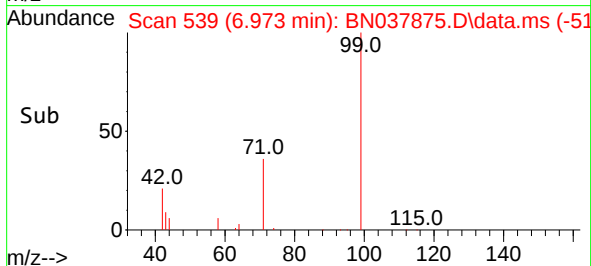


#5
Phenol-d6
Concen: 0.436 ng
RT: 6.973 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

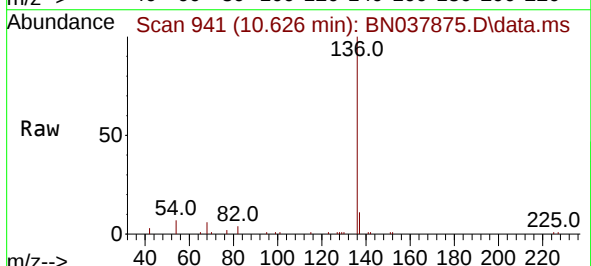
Instrument :
BNA_N
ClientSampleId :
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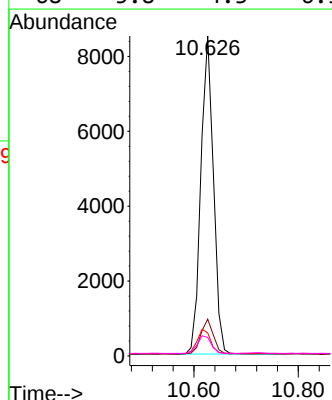
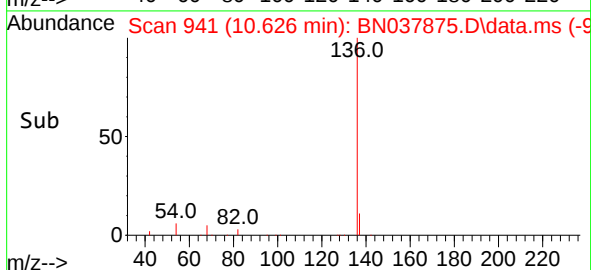
Tgt Ion:	99	Resp:	6784
Ion	Ratio	Lower	Upper
99	100		
42	20.2	17.2	25.8
71	36.8	27.3	40.9

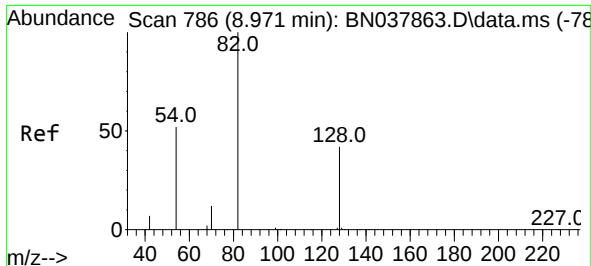


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12



Tgt Ion:	136	Resp:	14257
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.4
54	7.2	5.8	8.8
68	5.8	4.3	6.5

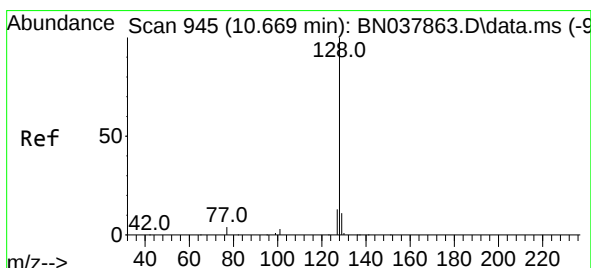
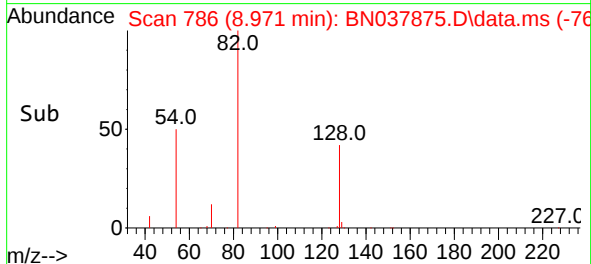
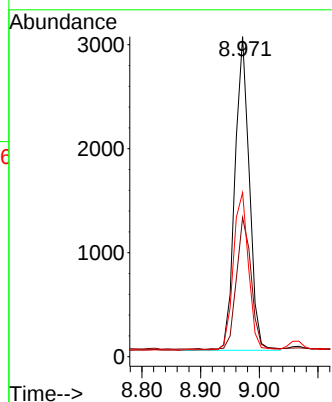
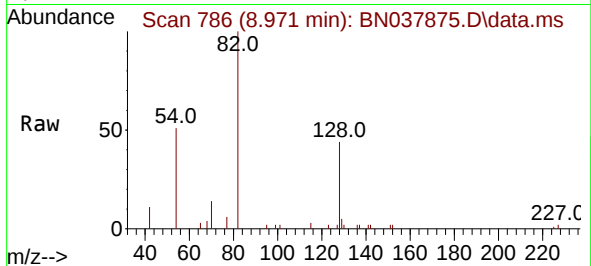




#8
Nitrobenzene-d5
Concen: 0.474 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

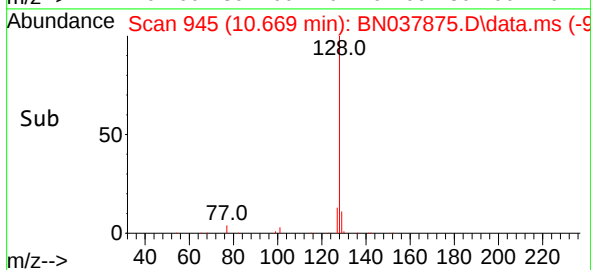
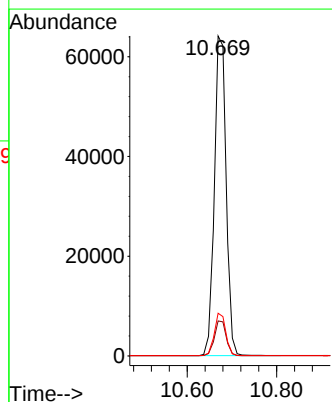
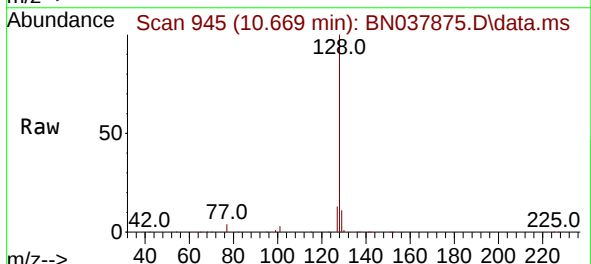
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

Tgt Ion: 82 Resp: 5155
Ion Ratio Lower Upper
82 100
128 43.5 34.8 52.2
54 51.3 42.2 63.2



#9
Naphthalene
Concen: 2.976 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion: 128 Resp: 116901
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.3 11.0 16.6

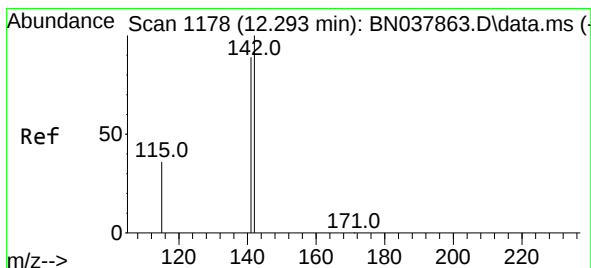
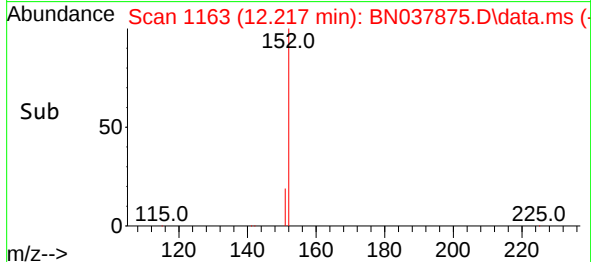
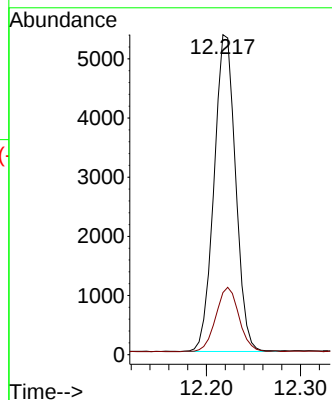
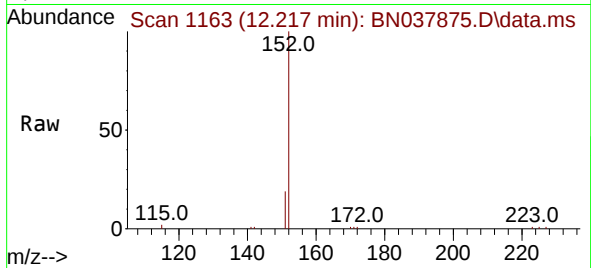




#11
2-Methylnaphthalene-d10
Concen: 0.430 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

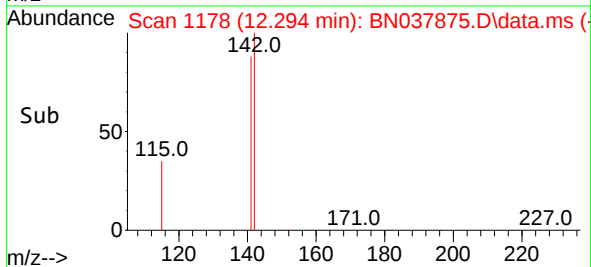
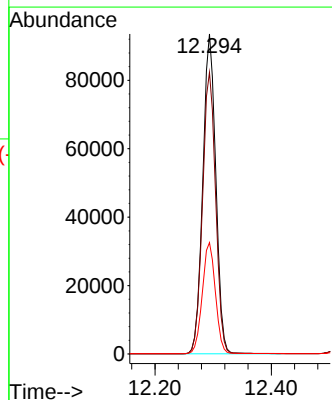
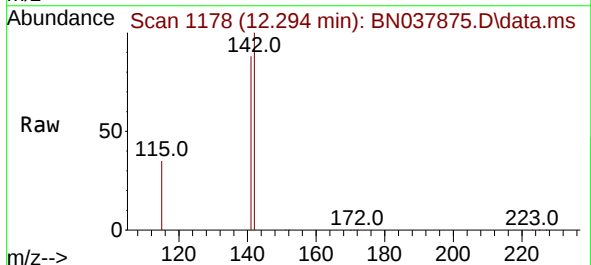
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ClientSampleId :
WP0925-RR-PAH-WP

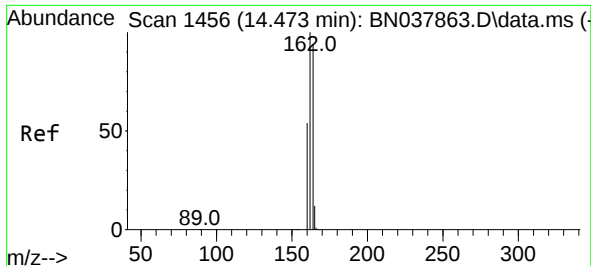
Tgt Ion:152 Resp: 8521
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.656 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:142 Resp: 145103
Ion Ratio Lower Upper
142 100
141 88.0 71.2 106.8
115 34.8 29.7 44.5

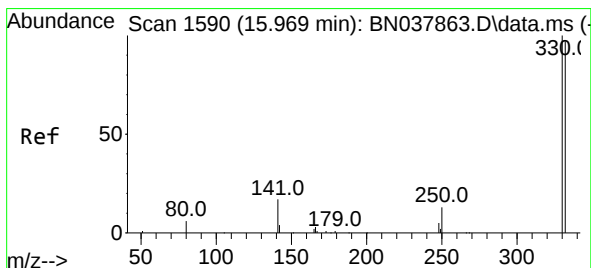
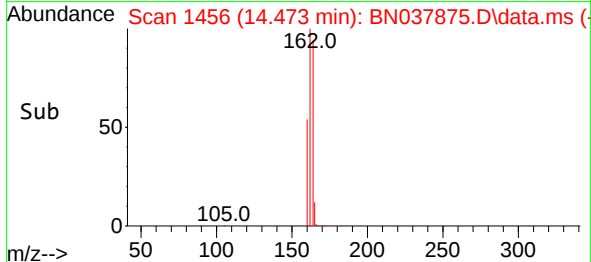
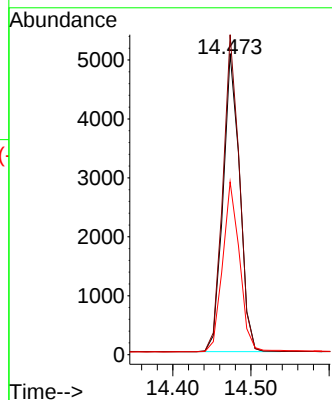
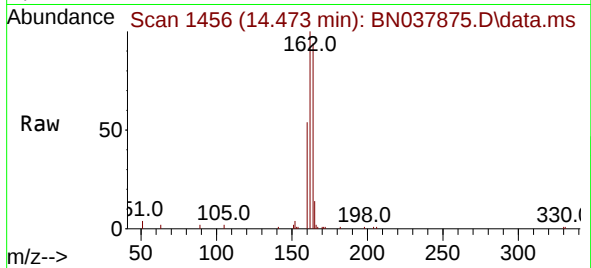




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

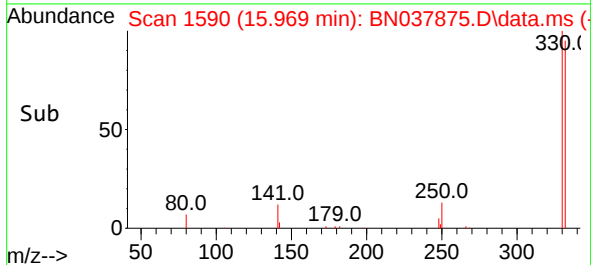
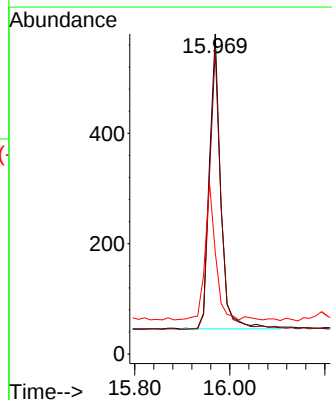
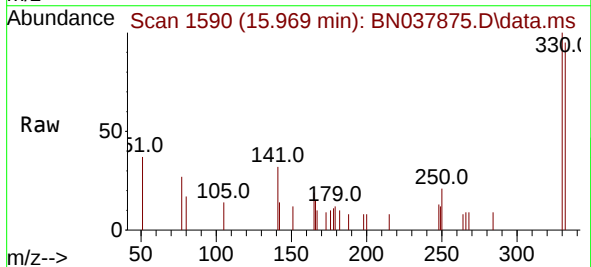
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

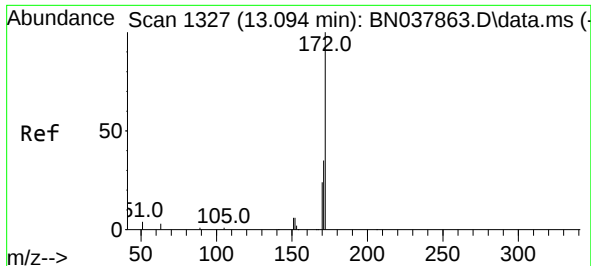
Tgt Ion:164 Resp: 7470
Ion Ratio Lower Upper
164 100
162 106.2 84.8 127.2
160 57.4 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.315 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:330 Resp: 892
Ion Ratio Lower Upper
330 100
332 96.2 77.2 115.8
141 43.0 37.2 55.8

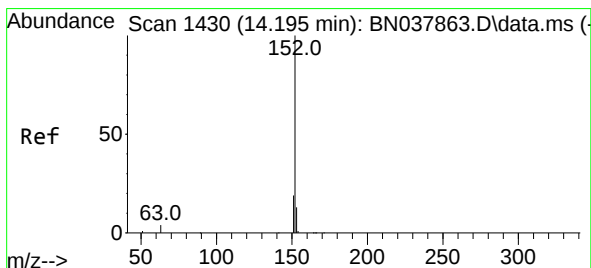
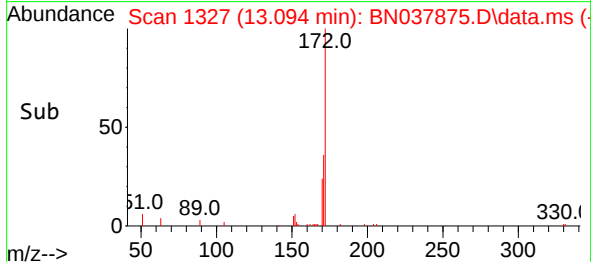
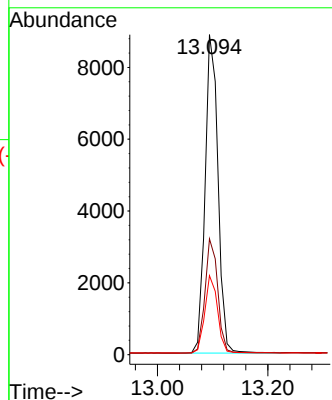
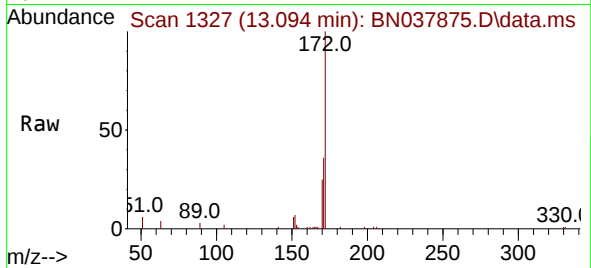




#15
2-Fluorobiphenyl
Concen: 0.473 ng
RT: 13.094 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

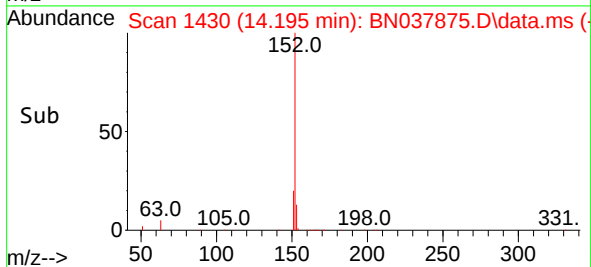
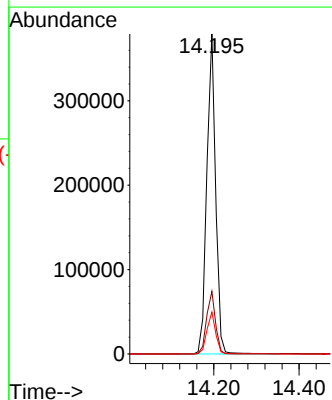
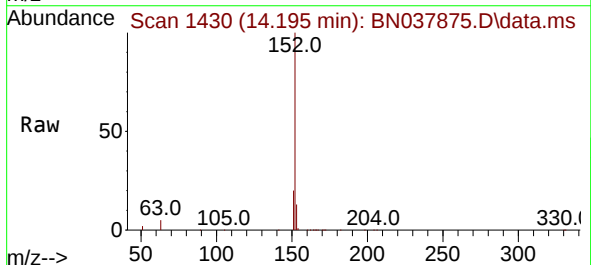
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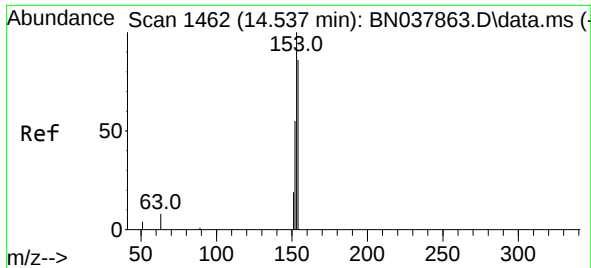
Tgt Ion:	172	Resp:	14475
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.7	19.7	29.5



#16
Acenaphthylene
Concen: 16.035 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:	152	Resp:	543865
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	13.0	10.5	15.7

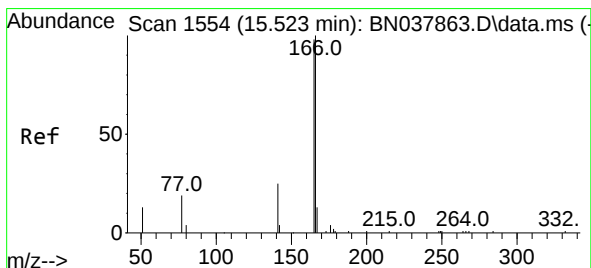
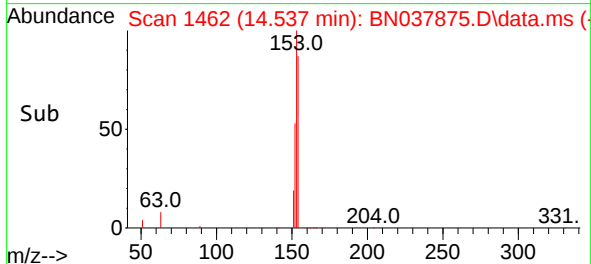
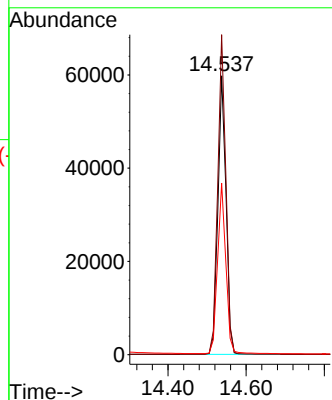
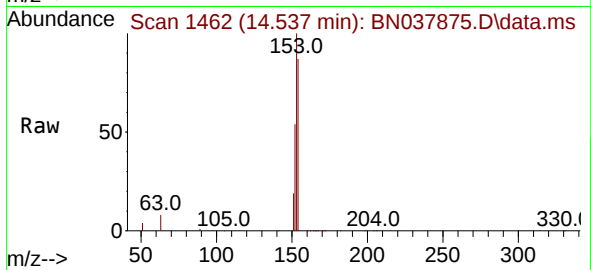




#17
Acenaphthene
Concen: 3.573 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

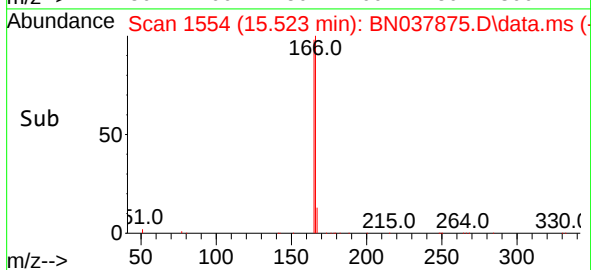
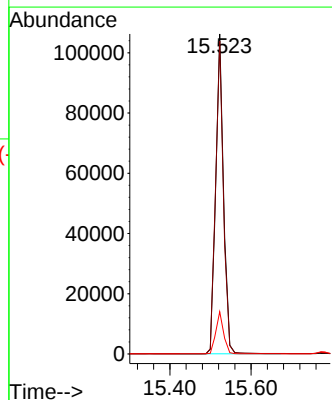
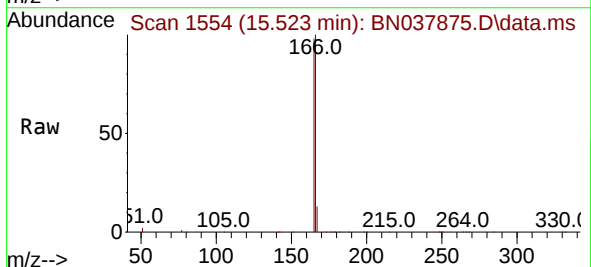
Instrument :
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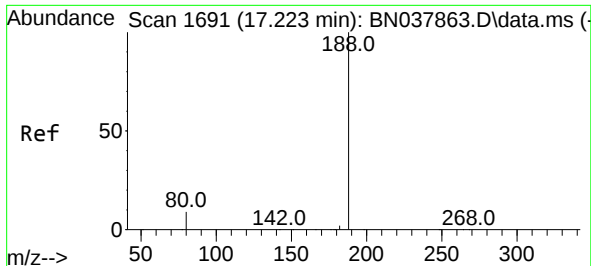
Tgt Ion:154 Resp: 86337
Ion Ratio Lower Upper
154 100
153 114.7 90.5 135.7
152 62.3 51.8 77.8



#18
Fluorene
Concen: 4.656 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:166 Resp: 136092
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.2 10.6 16.0

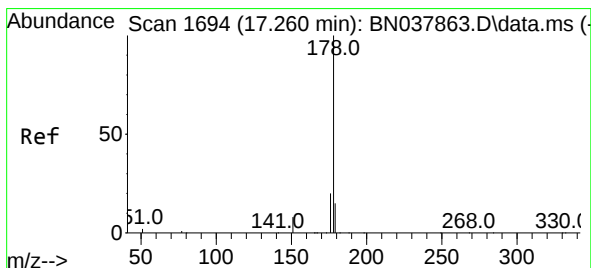
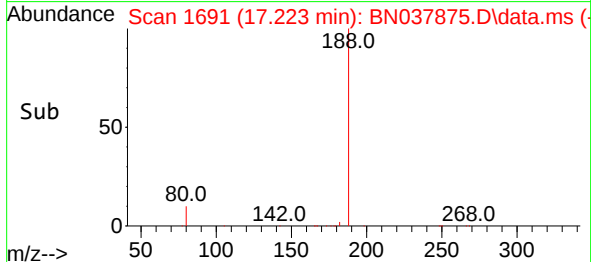
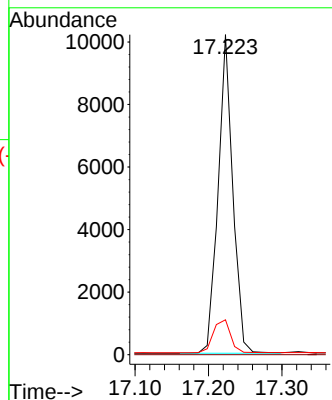
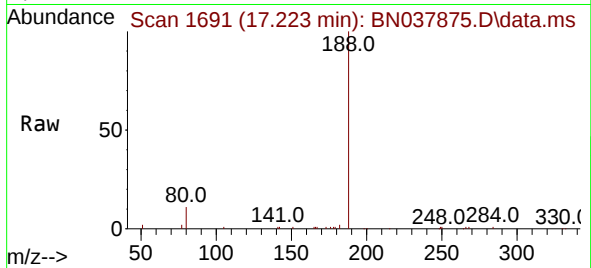




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

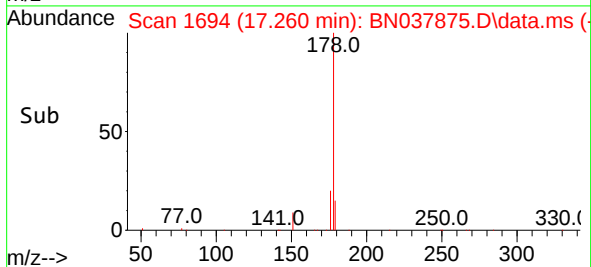
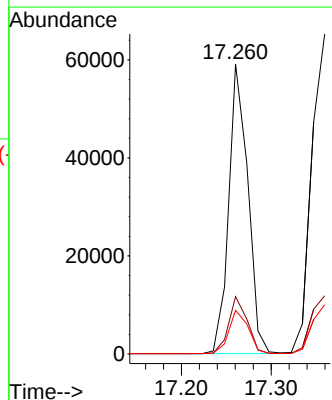
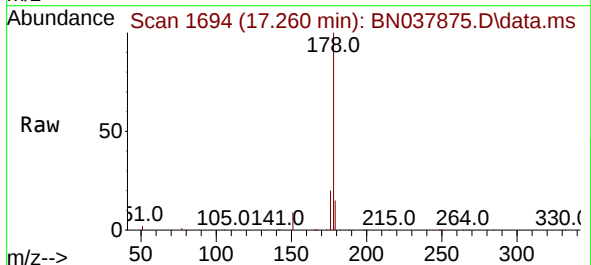
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

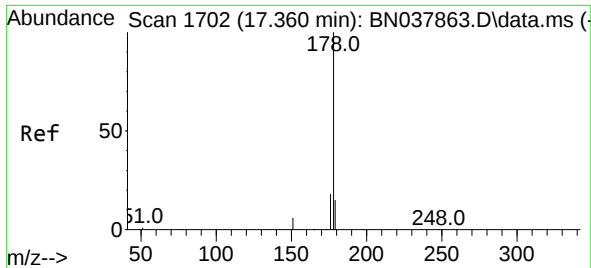
Tgt Ion:188 Resp: 14151
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.9 7.6 11.4



#25
Phenanthrene
Concen: 1.876 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:178 Resp: 87363
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.2 12.3 18.5

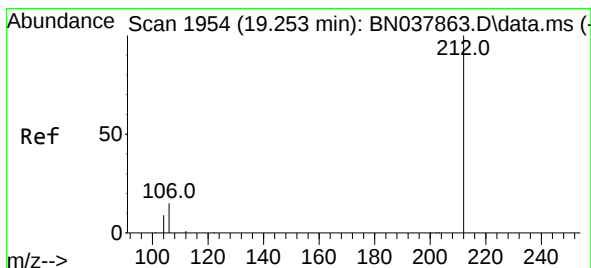
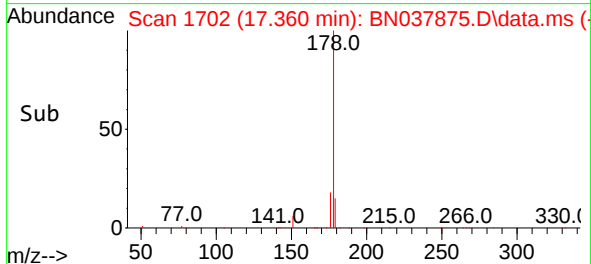
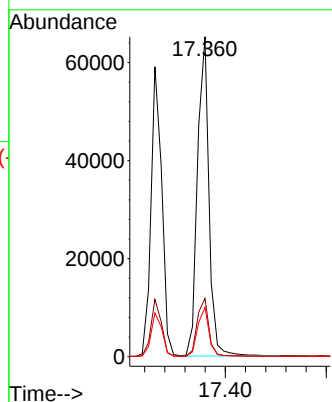
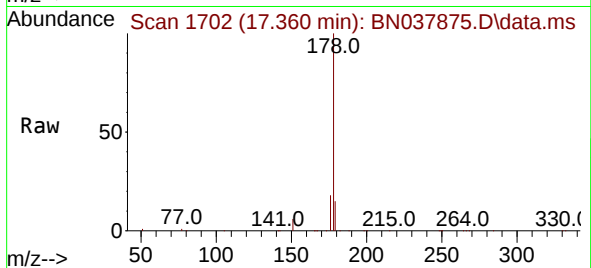




#26
 Anthracene
 Concen: 2.551 ng
 RT: 17.360 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN037875.D
 Acq: 24 Sep 2025 14:12

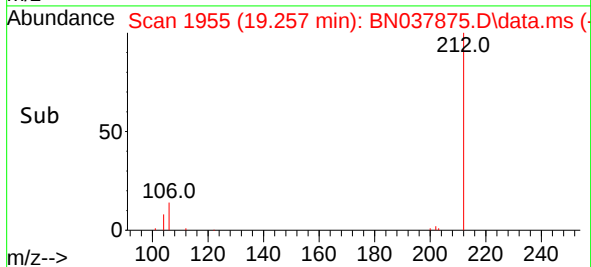
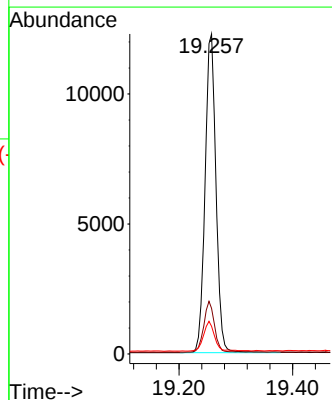
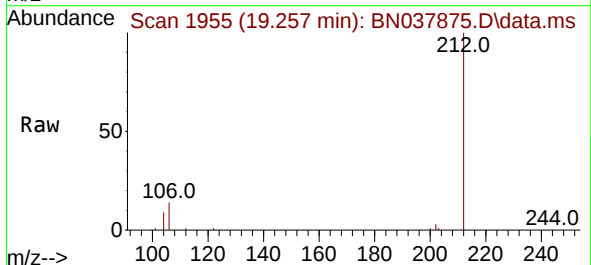
Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WP

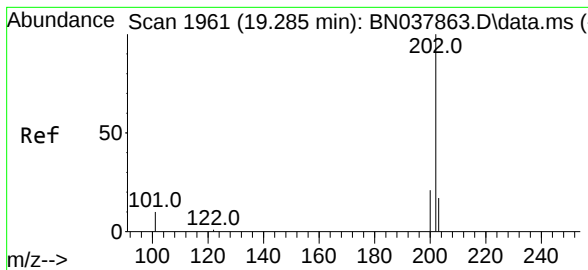
Tgt Ion:178 Resp: 103041
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.0 22.4
 179 15.1 12.3 18.5



#27
 Fluoranthene-d10
 Concen: 0.457 ng
 RT: 19.257 min Scan# 1955
 Delta R.T. 0.005 min
 Lab File: BN037875.D
 Acq: 24 Sep 2025 14:12

Tgt Ion:212 Resp: 16255
 Ion Ratio Lower Upper
 212 100
 106 15.7 12.6 19.0
 104 9.4 7.4 11.0

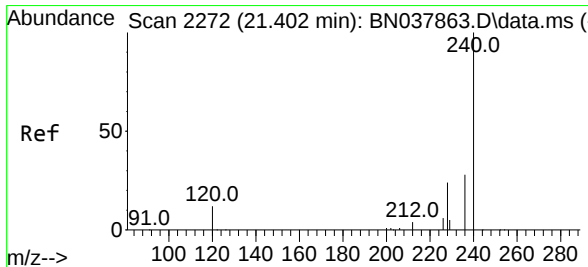
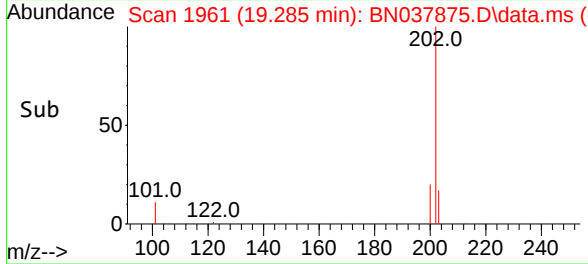
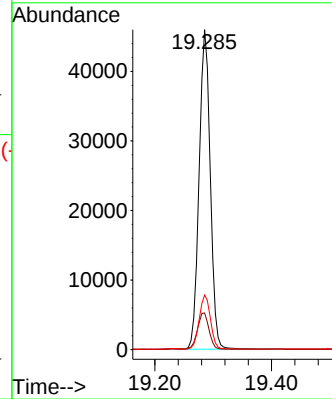
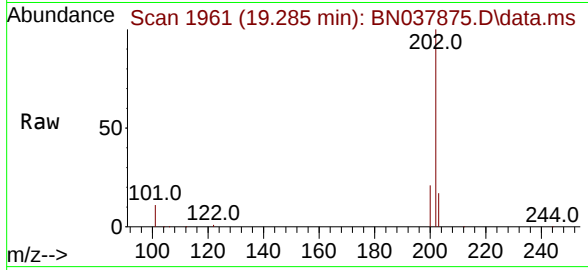




#28
Fluoranthene
Concen: 1.182 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

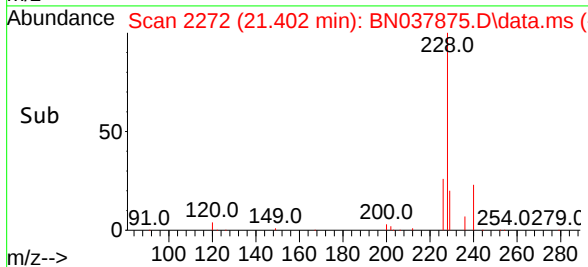
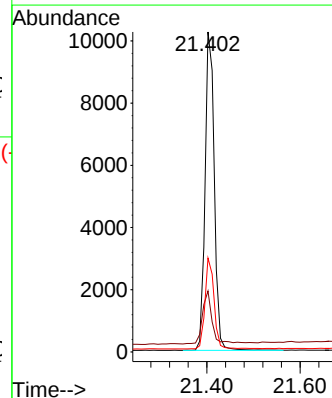
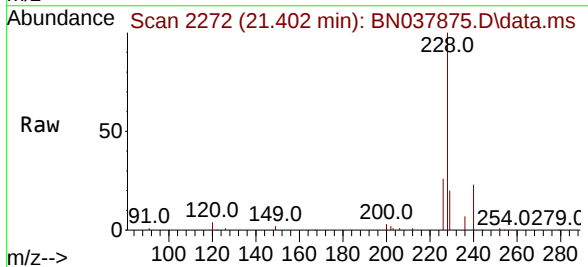
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

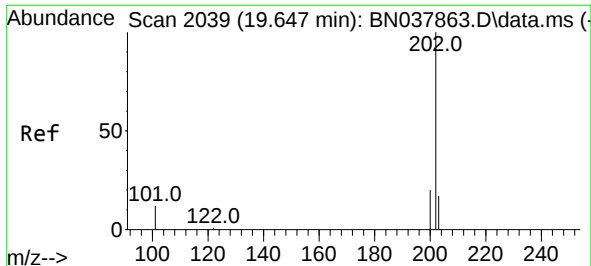
Tgt Ion:202 Resp: 60612
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.1 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:240 Resp: 14100
Ion Ratio Lower Upper
240 100
120 19.1 11.4 17.2#
236 29.3 23.0 34.6

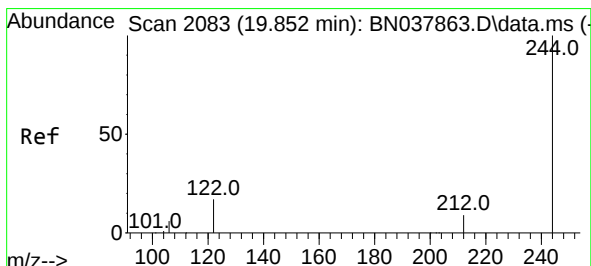
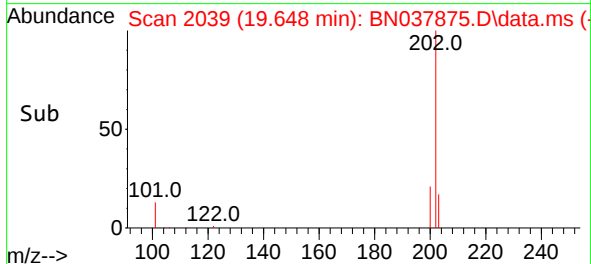
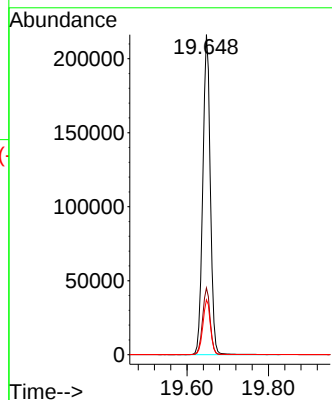
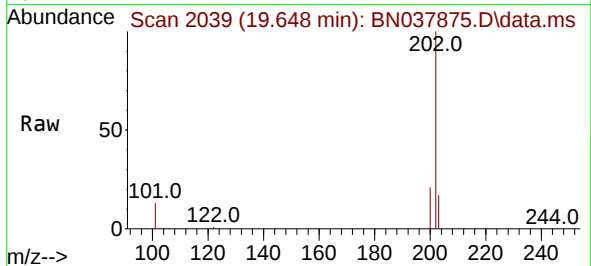




#30
Pyrene
Concen: 4.947 ng
RT: 19.648 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

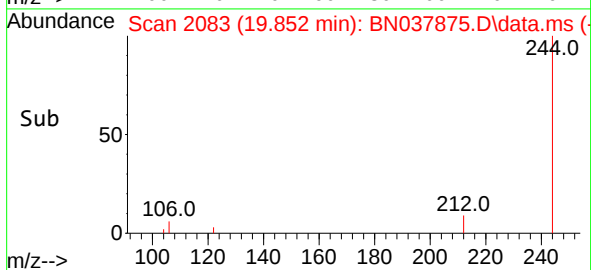
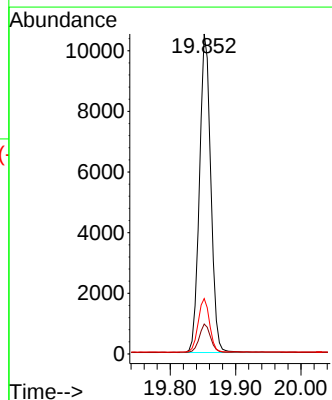
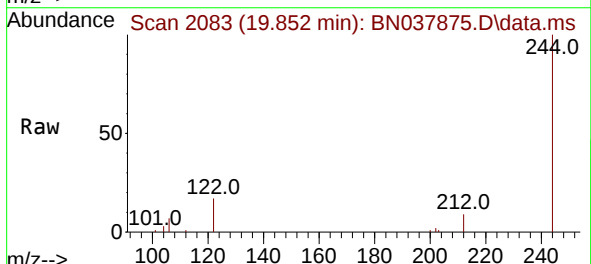
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

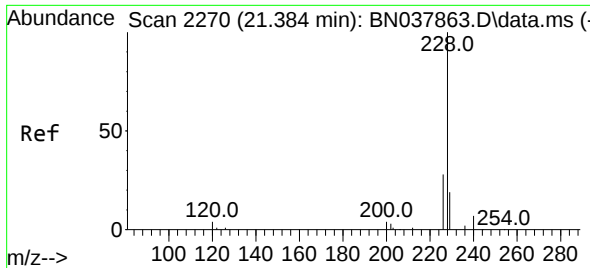
Tgt Ion:202 Resp: 275385
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.3 14.2 21.4



#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:244 Resp: 12604
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 17.3 13.9 20.9

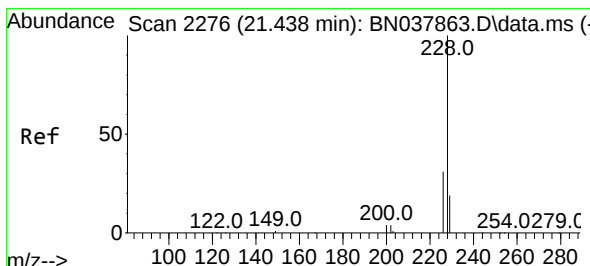
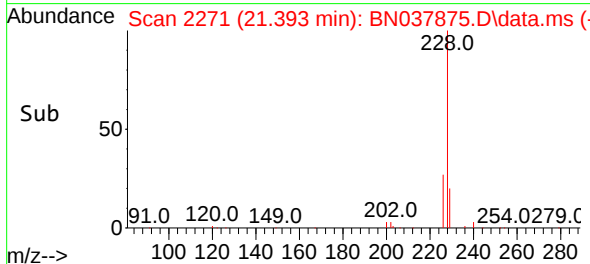
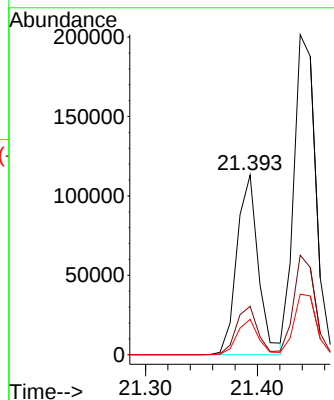
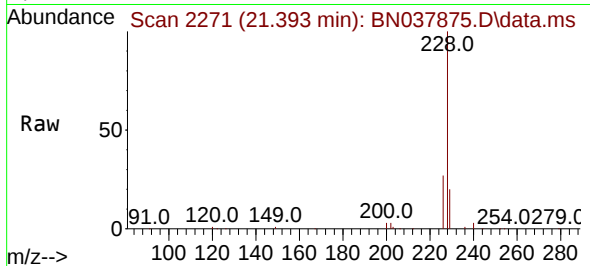




#32
Benzo(a)anthracene
Concen: 3.069 ng
RT: 21.393 min Scan# 21393
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

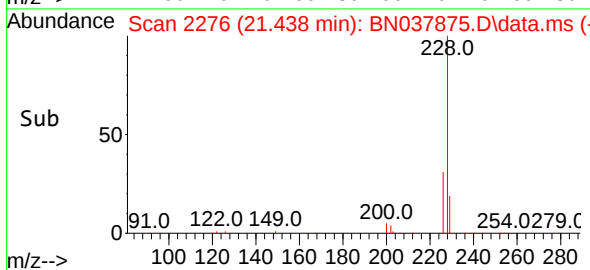
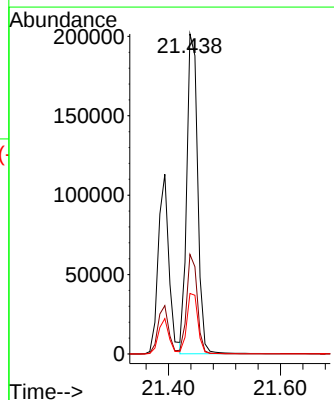
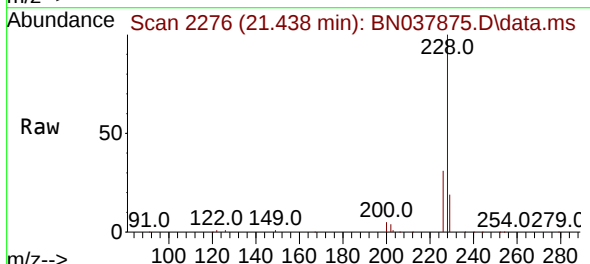
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

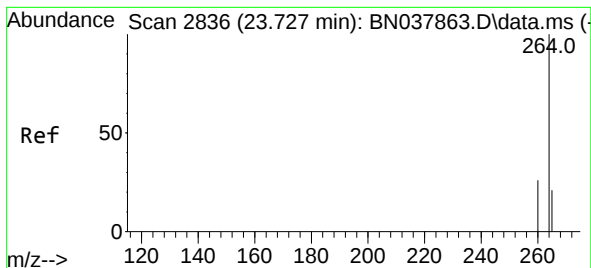
Tgt Ion:228 Resp: 151244
Ion Ratio Lower Upper
228 100
226 26.9 22.6 33.8
229 19.7 15.6 23.4



#33
Chrysene
Concen: 5.109 ng
RT: 21.438 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:228 Resp: 272271
Ion Ratio Lower Upper
228 100
226 31.1 24.6 37.0
229 18.9 15.6 23.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037875.D

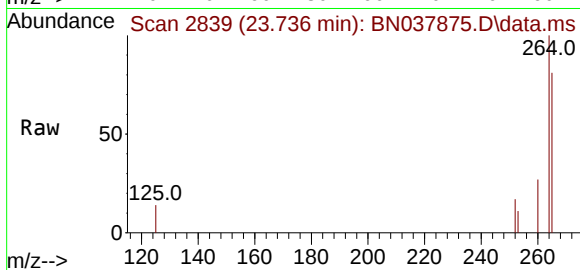
Acq: 24 Sep 2025 14:12

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WP



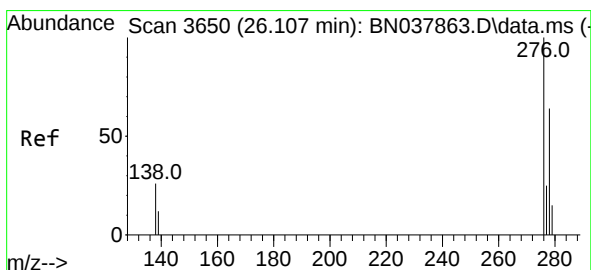
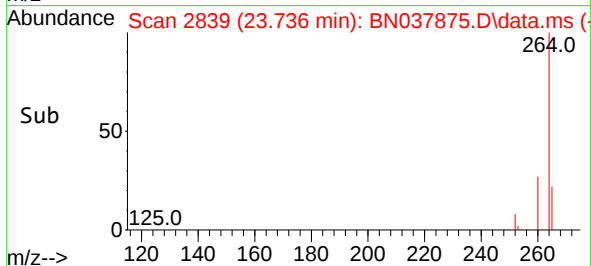
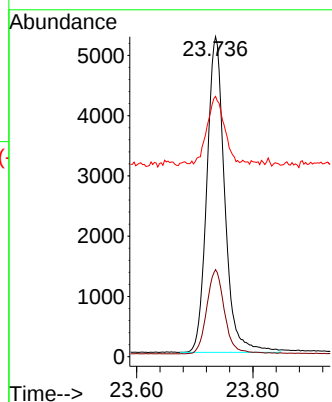
Tgt Ion:264 Resp: 11154

Ion Ratio Lower Upper

264 100

260 27.2 21.5 32.3

265 81.4 53.8 80.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.938 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.015 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

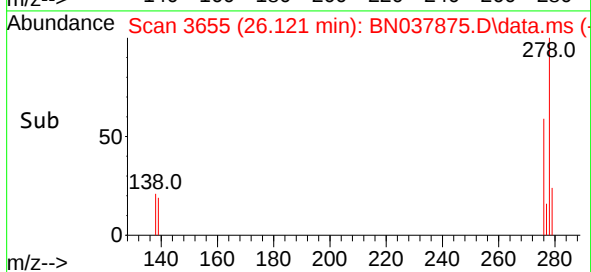
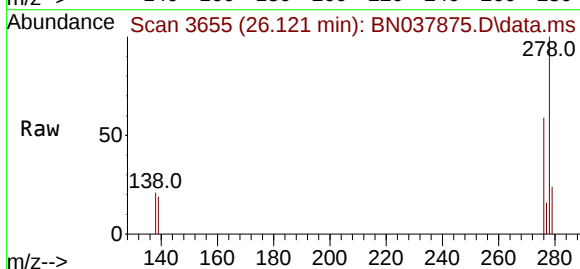
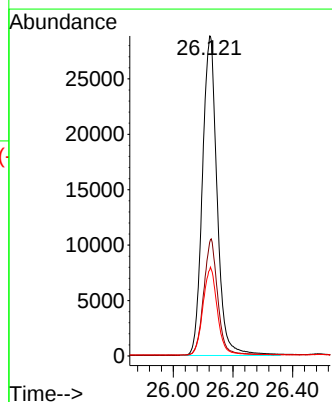
Tgt Ion:276 Resp: 98747

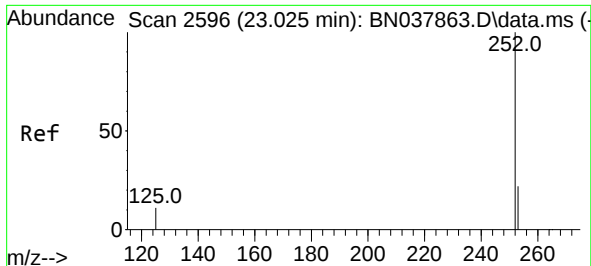
Ion Ratio Lower Upper

276 100

138 34.4 21.4 32.0#

277 26.8 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 2.558 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WP

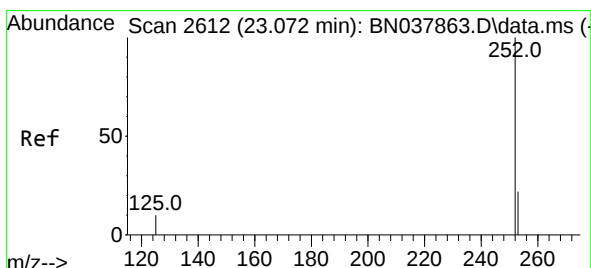
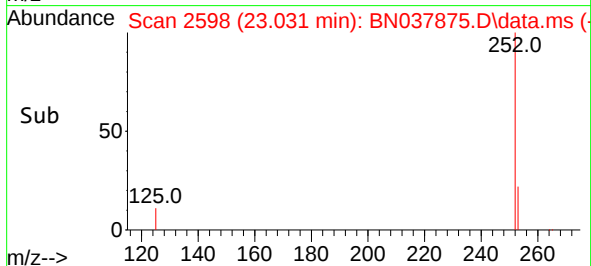
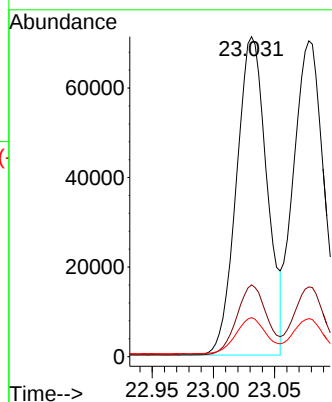
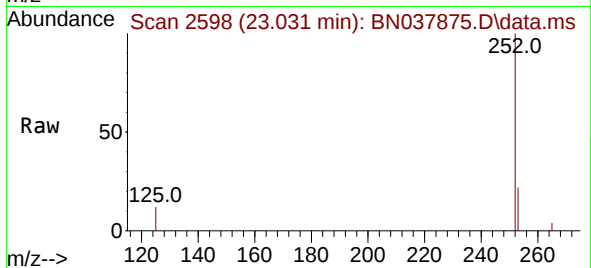
Tgt Ion:252 Resp: 123046

Ion Ratio Lower Upper

252 100

253 22.5 19.4 29.0

125 12.2 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 2.574 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

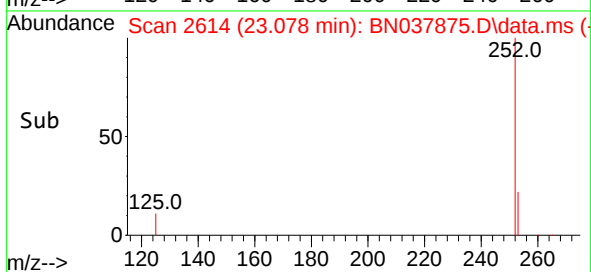
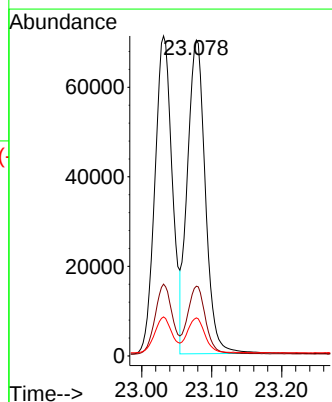
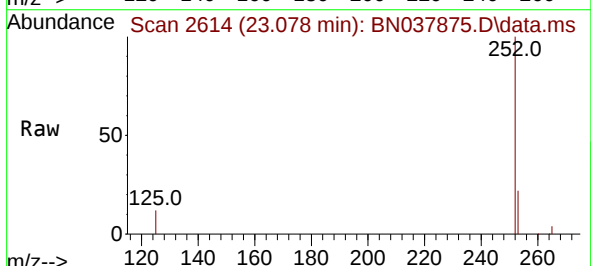
Tgt Ion:252 Resp: 124587

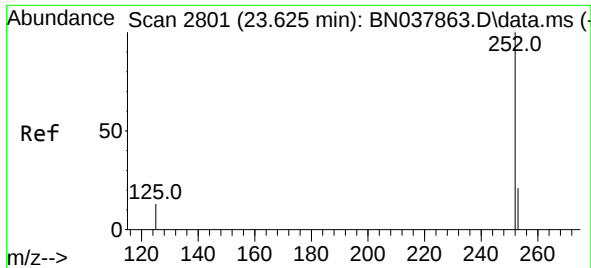
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

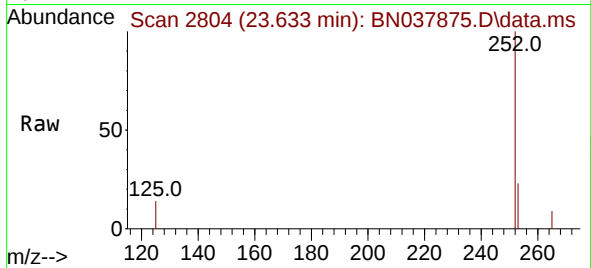
125 12.1 13.0 19.4#



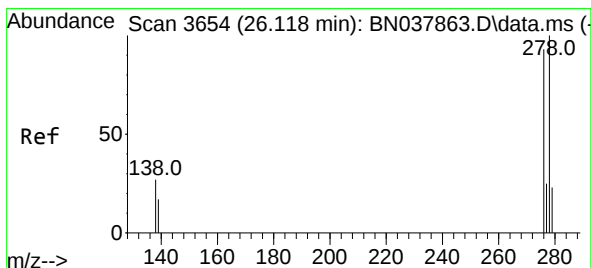
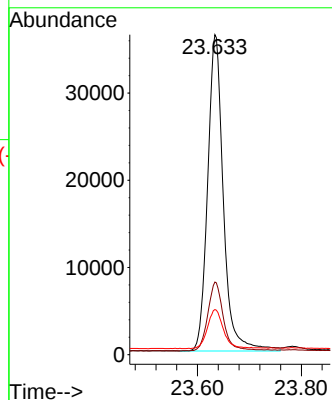


#39
Benzo(a)pyrene
Concen: 2.004 ng
RT: 23.633 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

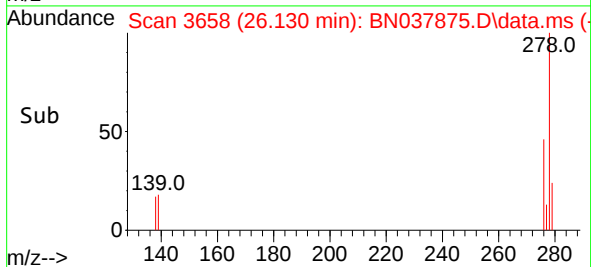
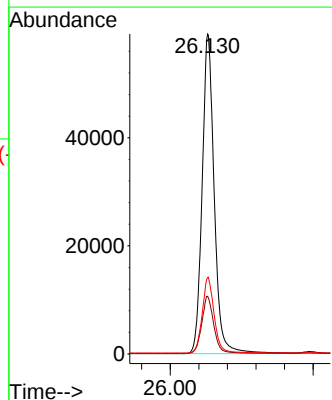
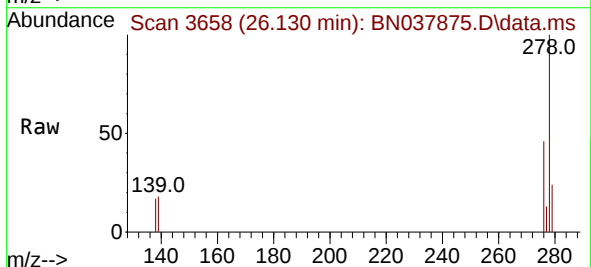


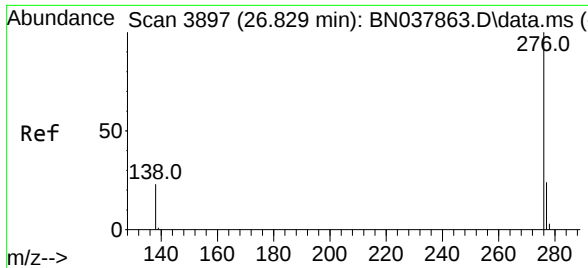
Tgt Ion:252 Resp: 76254
Ion Ratio Lower Upper
252 100
253 22.7 20.6 30.8
125 14.1 16.7 25.1#



#40
Dibenzo(a,h)anthracene
Concen: 4.363 ng
RT: 26.130 min Scan# 3658
Delta R.T. 0.012 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

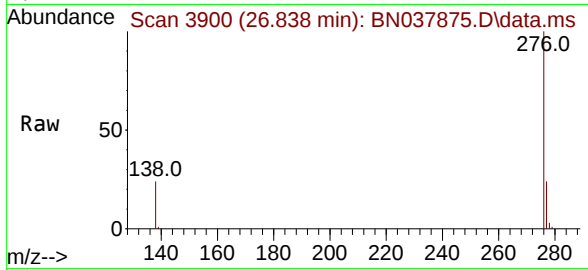
Tgt Ion:278 Resp: 173638
Ion Ratio Lower Upper
278 100
139 18.0 15.4 23.2
279 23.9 20.8 31.2





#41
Benzo(g,h,i)perylene
Concen: 4.154 ng
RT: 26.838 min Scan# 3900
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP



Tgt Ion:276 Resp: 173660
Ion Ratio Lower Upper
276 100
277 23.7 20.2 30.4
138 23.5 19.8 29.8

