

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
 Data File : BN038124.D
 Acq On : 30 Oct 2025 12:30
 Operator : RC/JU
 Sample : Q3478-01
 Misc : RPT
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-061125

Quant Time: Oct 30 12:59:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

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

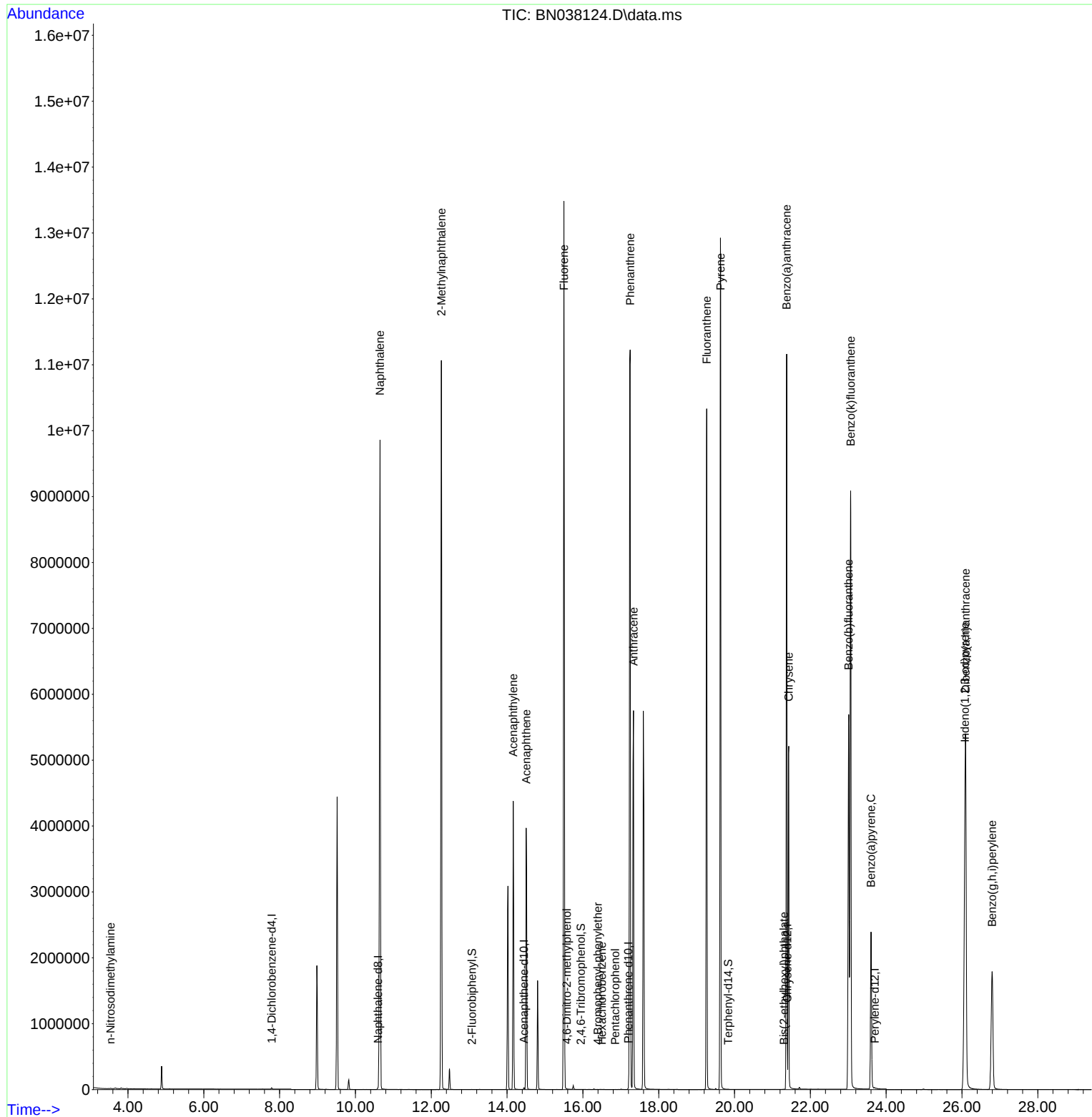
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	9510	0.400	ng	0.01
7) Naphthalene-d8	10.594	136	30722	0.400	ng	# 0.02
13) Acenaphthene-d10	14.441	164	15958	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	28411	0.400	ng	0.01
29) Chrysene-d12	21.393	240	22412	0.400	ng	# 0.02
35) Perylene-d12	23.698	264	16991	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.363	112	94	0.004	ng	0.01
5) Phenol-d6	6.959	99	474	0.017	ng	0.02
8) Nitrobenzene-d5	8.939	82	485	0.020	ng	0.01
11) 2-Methylnaphthalene-d10	12.162	152	311	0.007	ng	-0.02
14) 2,4,6-Tribromophenol	15.945	330	184	0.028	ng	0.01
15) 2-Fluorobiphenyl	13.073	172	2464	0.039	ng	0.02
27) Fluoranthene-d10	19.234	212	24	0.000	ng	0.01
31) Terphenyl-d14	19.833	244	1899	0.039	ng	0.01
Target Compounds						
3) n-Nitrosodimethylamine	3.543	42	2551	0.202	ng	# 1
9) Naphthalene	10.648	128	13187427	155.834	ng	98
12) 2-Methylnaphthalene	12.268	142	8552682	151.571	ng	98
16) Acenaphthylene	14.163	152	4583782	63.427	ng	99
17) Acenaphthene	14.505	154	2030482	40.159	ng	98
18) Fluorene	15.499	166	9160875	138.241	ng	95
20) 4,6-Dinitro-2-methylph...	15.572	198	64	0.195	ng	# 1
21) 4-Bromophenyl-phenylether	16.391	248	413	0.022	ng	94
22) Hexachlorobenzene	16.503	284	501	0.024	ng	# 83
24) Pentachlorophenol	16.851	266	219	0.024	ng	91
25) Phenanthrene	17.248	178	13751355	152.459	ng	97
26) Anthracene	17.335	178	6510453	82.511	ng	98
28) Fluoranthene	19.266	202	9634984	95.598	ng	96
30) Pyrene	19.629	202	12015753	118.769	ng	96
32) Benzo(a)anthracene	21.375	228	9572045	119.710	ng	95
33) Chrysene	21.429	228	4620050	53.242	ng	98
34) Bis(2-ethylhexyl)phtha...	21.304	149	1569	0.037	ng	# 95
36) Indeno(1,2,3-cd)pyrene	26.078	276	5494902	78.714	ng	93
37) Benzo(b)fluoranthene	23.011	252	8307408	114.356	ng	# 92
38) Benzo(k)fluoranthene	23.063	252	11871132	162.353	ng	# 93
39) Benzo(a)pyrene	23.601	252	3491807	60.049	ng	# 83
40) Dibenzo(a,h)anthracene	26.095	278	7219874	134.414	ng	93
41) Benzo(g,h,i)perylene	26.794	276	3919580	63.890	ng	97

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

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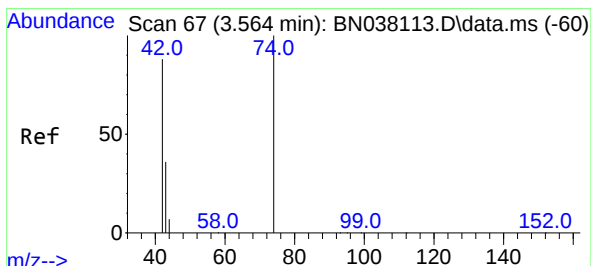
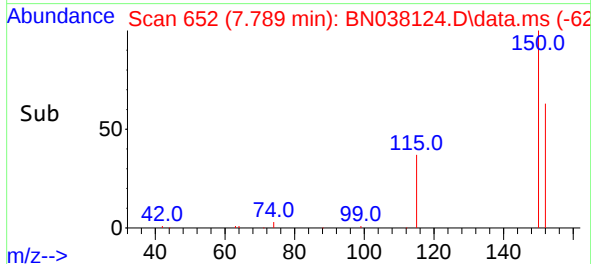
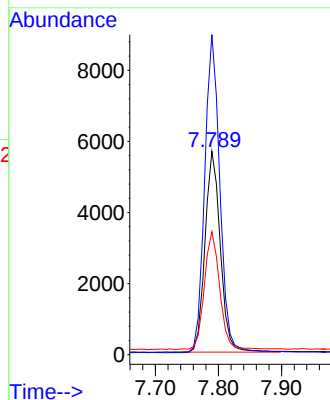
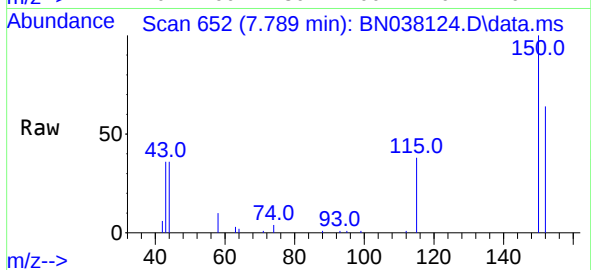




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

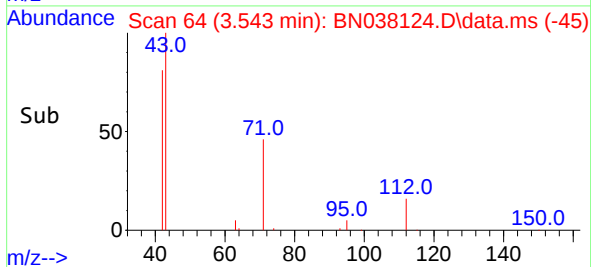
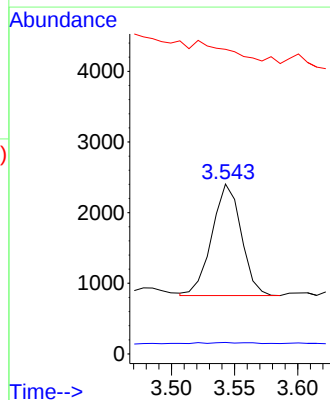
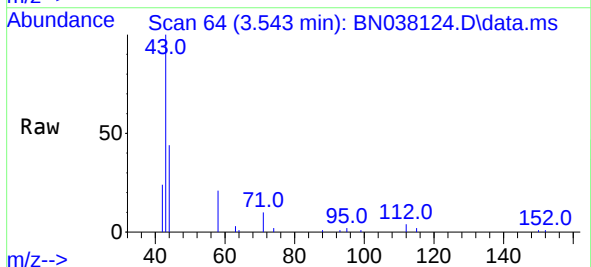
Instrument :
BNA_N
ClientSampleId :
38072-061125

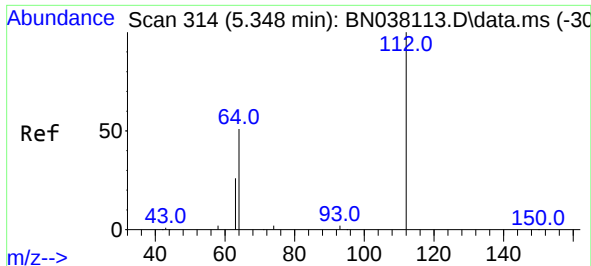
Tgt Ion:152 Resp: 9510
Ion Ratio Lower Upper
152 100
150 157.4 122.3 183.5
115 60.5 47.4 71.0



#3
n-Nitrosodimethylamine
Concen: 0.202 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion: 42 Resp: 2551
Ion Ratio Lower Upper
42 100
74 1.8 96.8 145.2#
44 0.0 5.3 7.9#

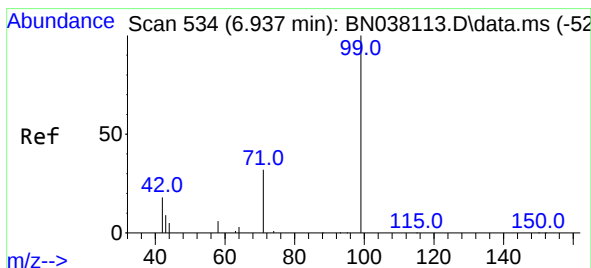
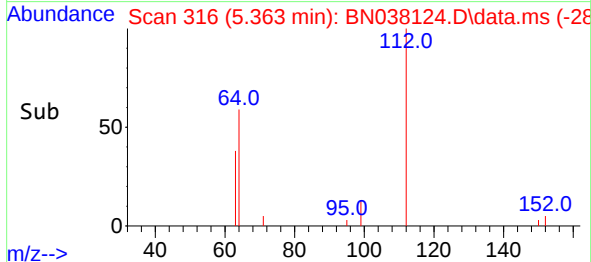
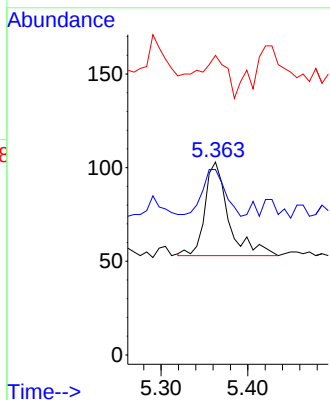
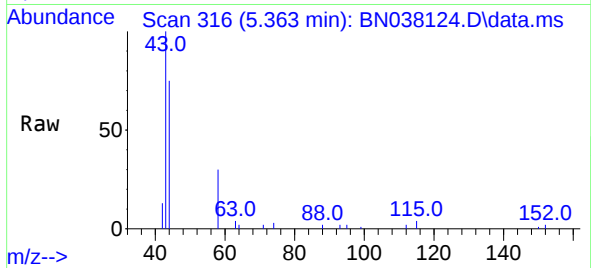




#4
2-Fluorophenol
Concen: 0.004 ng
RT: 5.363 min Scan# 314
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

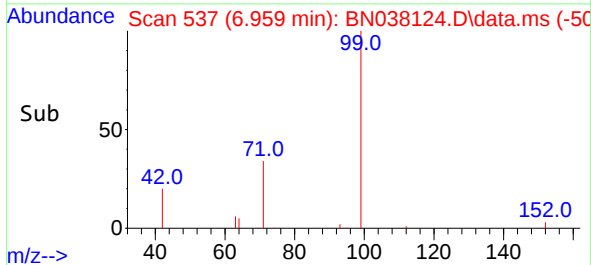
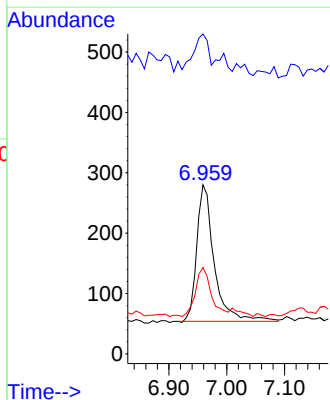
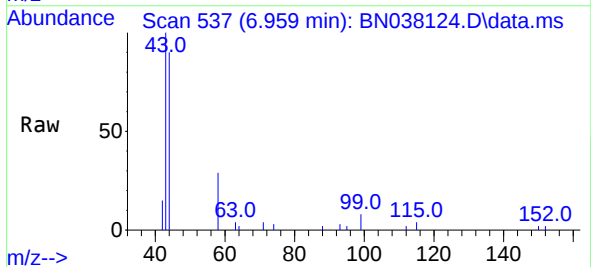
Instrument :
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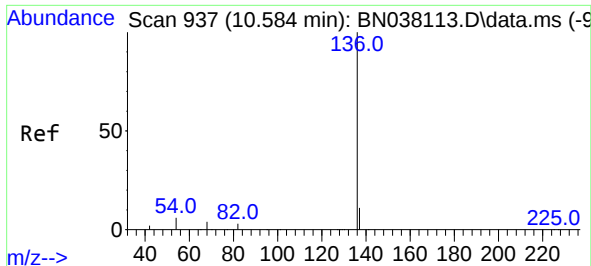
Tgt Ion:112 Resp: 94
Ion Ratio Lower Upper
112 100
64 52.1 45.4 68.0
63 34.0 23.2 34.8



#5
Phenol-d6
Concen: 0.017 ng
RT: 6.959 min Scan# 537
Delta R.T. 0.022 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion: 99 Resp: 474
Ion Ratio Lower Upper
99 100
42 23.6 16.6 24.8
71 30.2 25.4 38.2



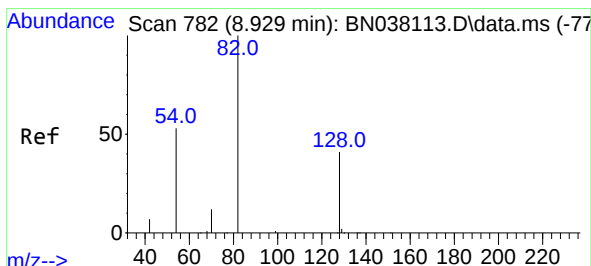
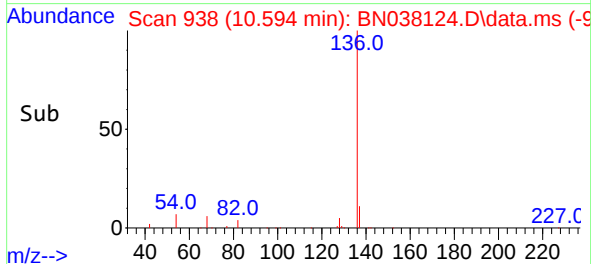
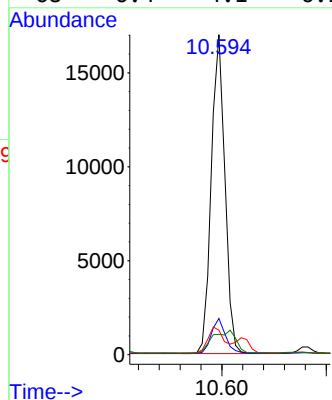
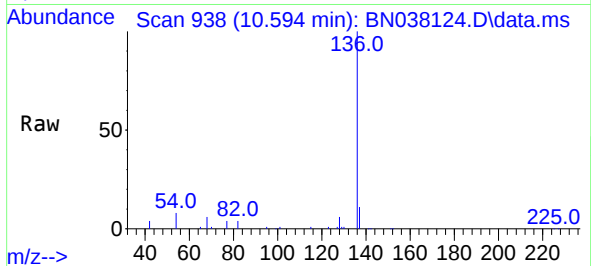


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 91
Delta R.T. 0.021 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Instrument :
BNA_N
ClientSampleId :
38072-061125

Tgt Ion:136 Resp: 30722

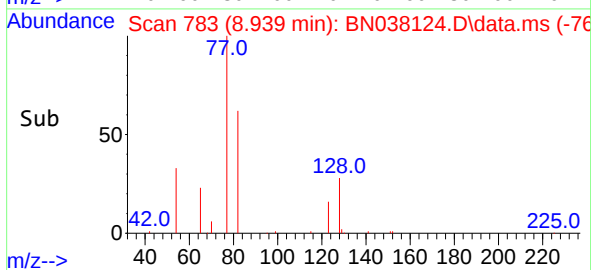
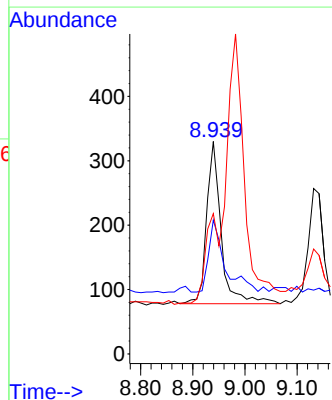
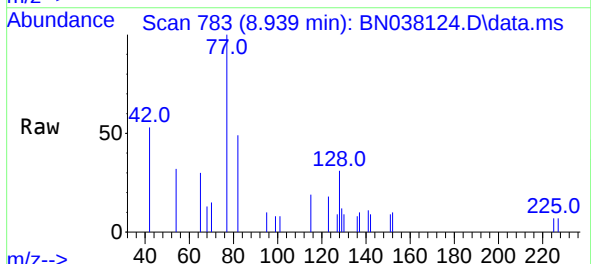
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.6	5.2	7.8
68	6.4	4.1	6.1

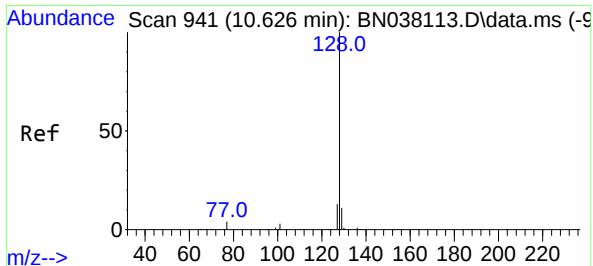


#8
Nitrobenzene-d5
Concen: 0.020 ng
RT: 8.939 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion: 82 Resp: 485

Ion	Ratio	Lower	Upper
82	100		
128	63.0	34.1	51.1
54	66.1	43.5	65.3

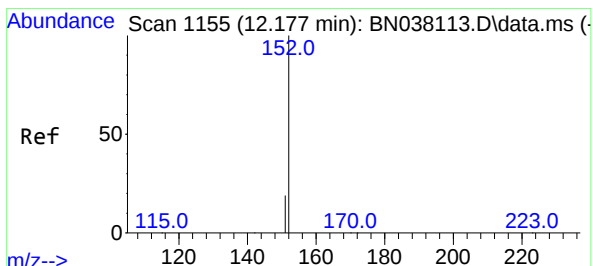
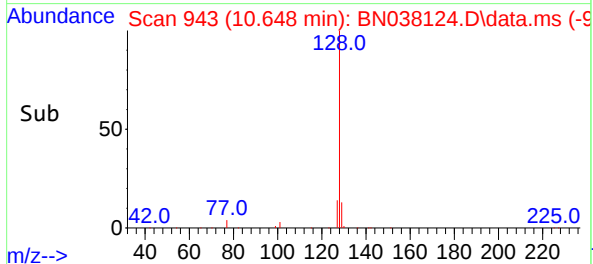
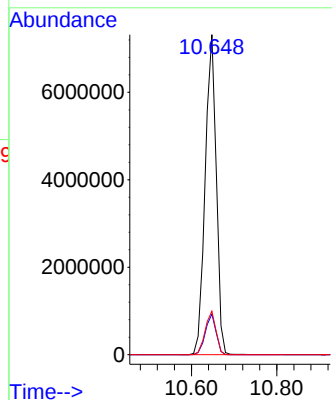
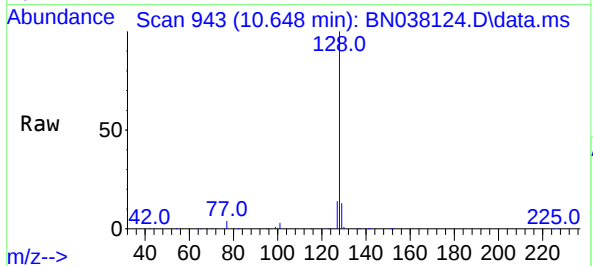




#9
Naphthalene
Concen: 155.834 ng
RT: 10.648 min Scan# 941
Delta R.T. 0.021 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

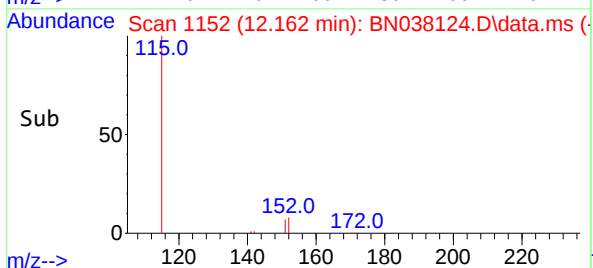
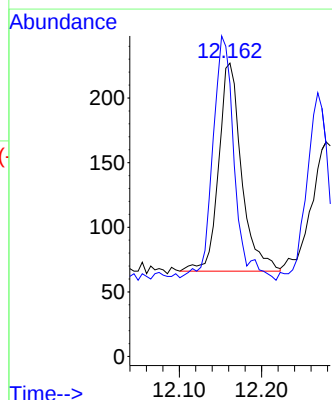
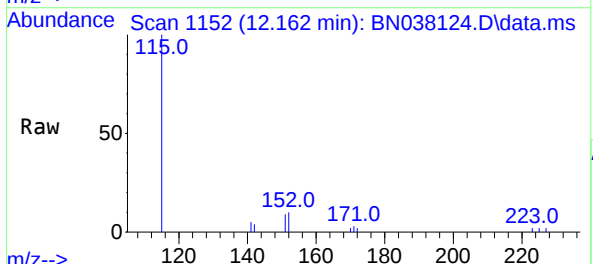
Instrument :
BNA_N
ClientSampleId :
38072-061125

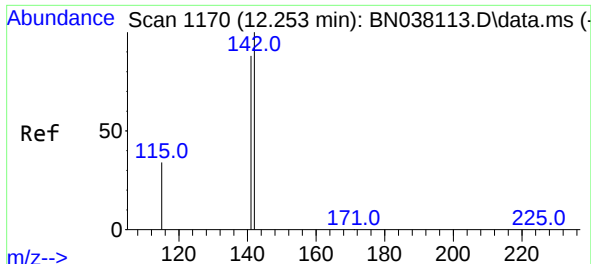
Tgt Ion:128 Resp:13187427
Ion Ratio Lower Upper
128 100
129 12.7 9.1 13.7
127 13.6 10.5 15.7



#11
2-Methylnaphthalene-d10
Concen: 0.007 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.015 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:152 Resp: 311
Ion Ratio Lower Upper
152 100
151 111.3 16.8 25.2#



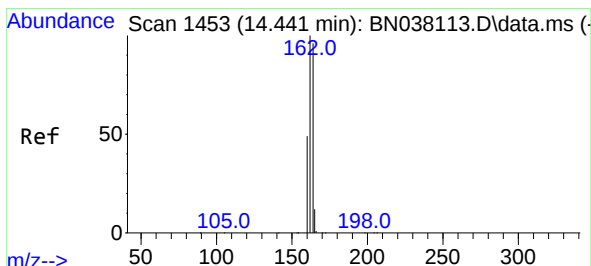
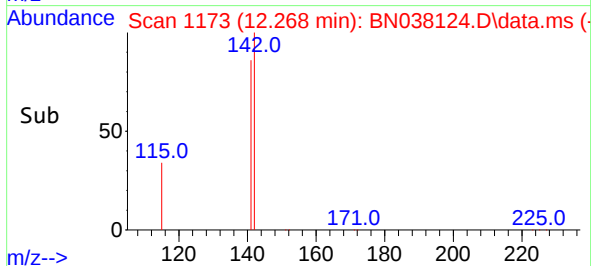
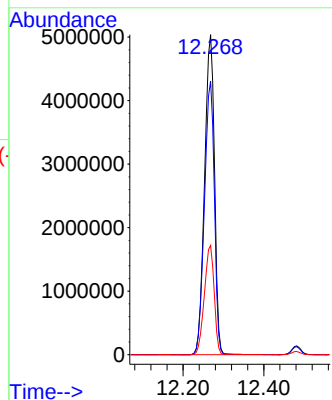
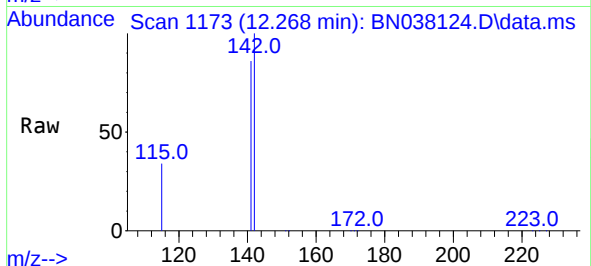


#12
2-Methylnaphthalene
Concen: 151.571 ng
RT: 12.268 min Scan# 1173
Delta R.T. 0.020 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Instrument :
BNA_N
ClientSampleId :
38072-061125

Tgt Ion:142 Resp: 8552682

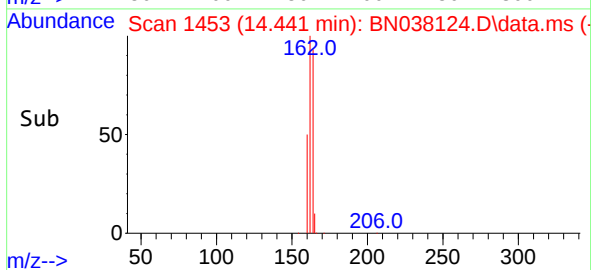
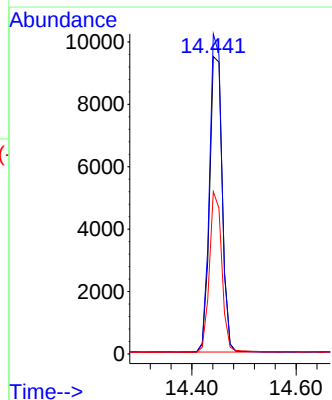
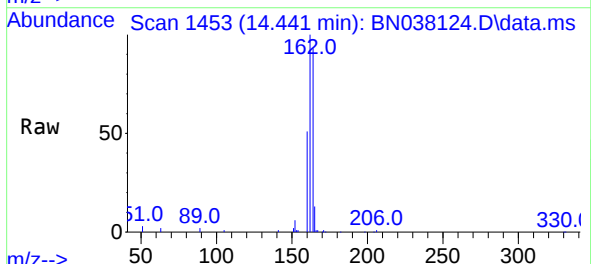
Ion	Ratio	Lower	Upper
142	100		
141	85.5	70.3	105.5
115	34.1	27.8	41.6

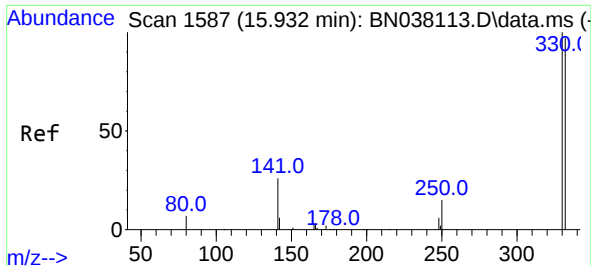


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:164 Resp: 15958

Ion	Ratio	Lower	Upper
164	100		
162	107.6	83.0	124.4
160	54.5	40.7	61.1

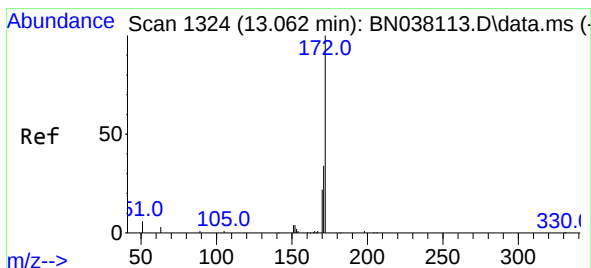
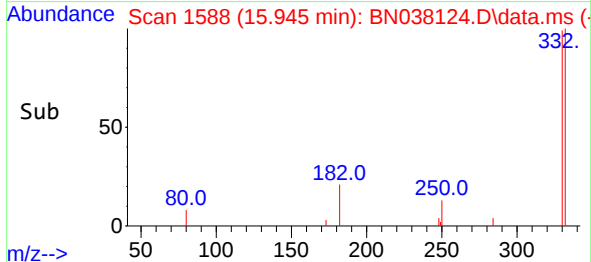
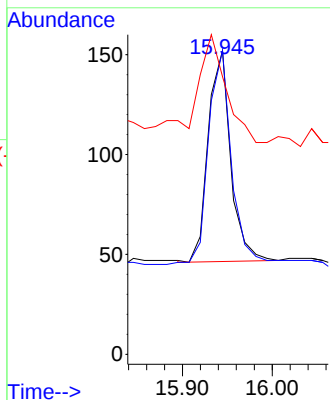
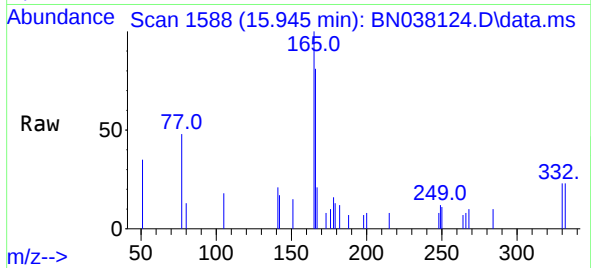




#14
2,4,6-Tribromophenol
Concen: 0.028 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.013 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

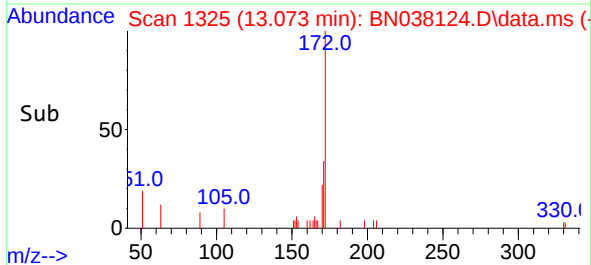
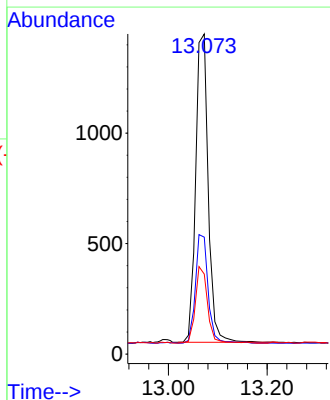
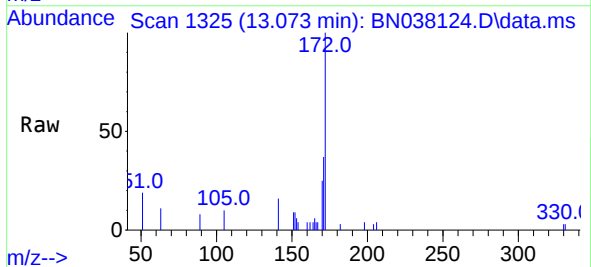
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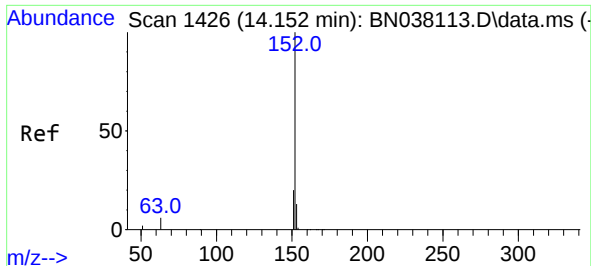
Tgt Ion:330 Resp: 184
Ion Ratio Lower Upper
330 100
332 103.8 76.6 114.8
141 70.1 34.1 51.1#



#15
2-Fluorobiphenyl
Concen: 0.039 ng
RT: 13.073 min Scan# 1325
Delta R.T. 0.021 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:172 Resp: 2464
Ion Ratio Lower Upper
172 100
171 36.5 27.8 41.6
170 25.0 18.1 27.1

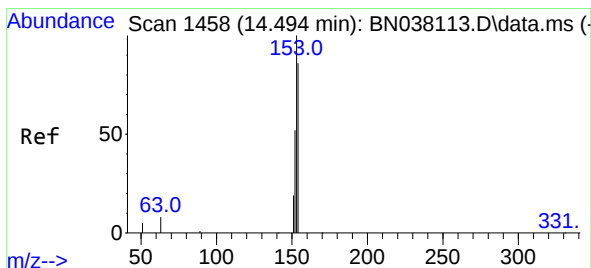
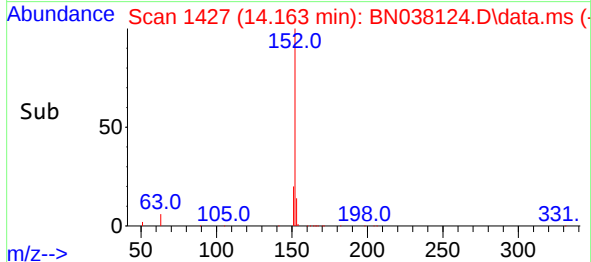
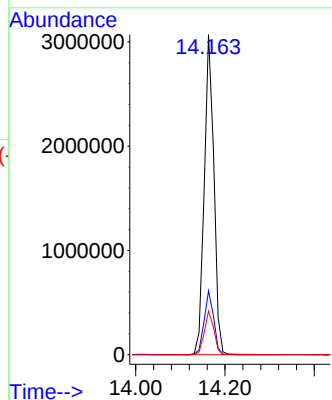
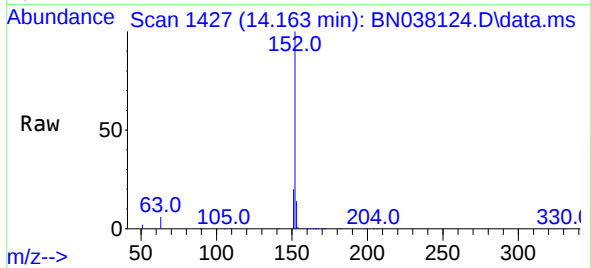




#16
Acenaphthylene
Concen: 63.427 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

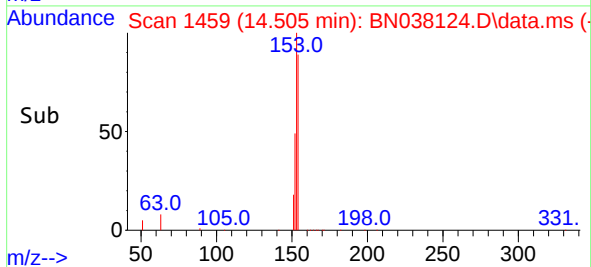
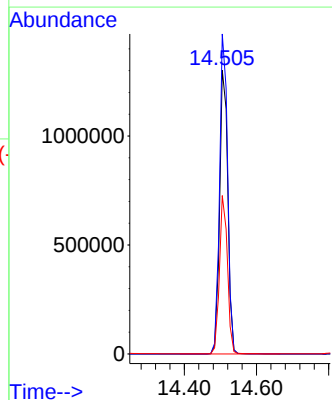
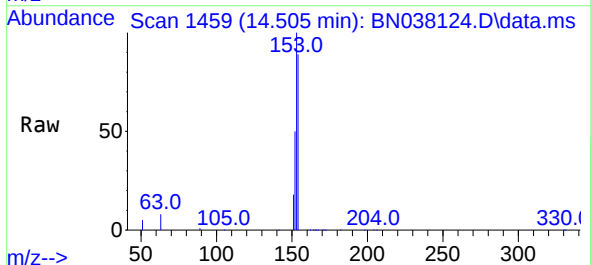
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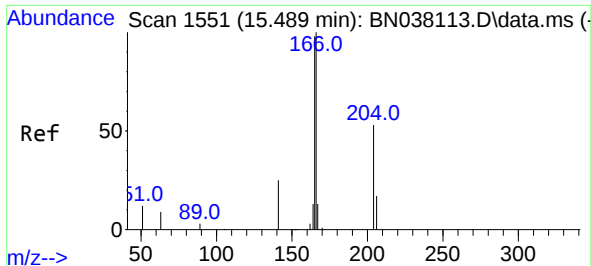
Tgt Ion:152 Resp: 4583782
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 13.5 10.2 15.2



#17
Acenaphthene
Concen: 40.159 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:154 Resp: 2030482
Ion Ratio Lower Upper
154 100
153 111.8 90.0 135.0
152 54.7 47.3 70.9

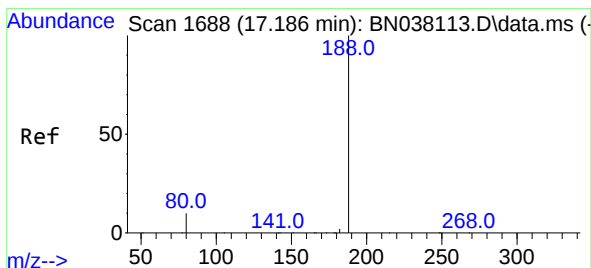
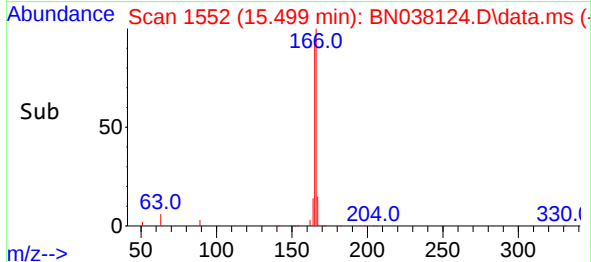
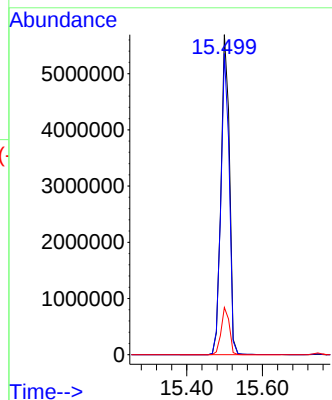
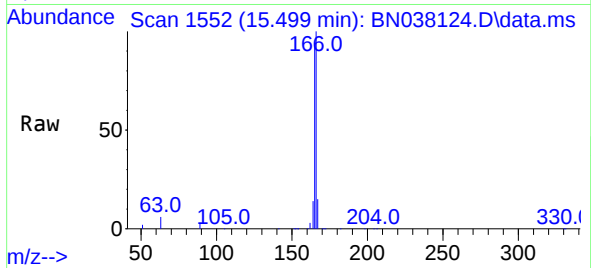




#18
Fluorene
Concen: 138.241 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.010 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

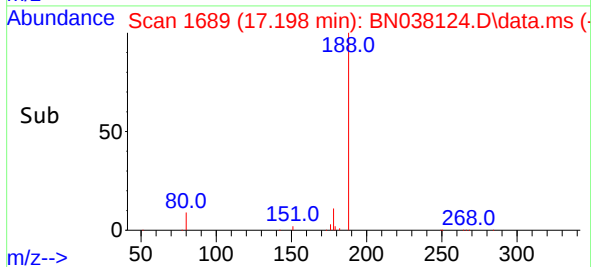
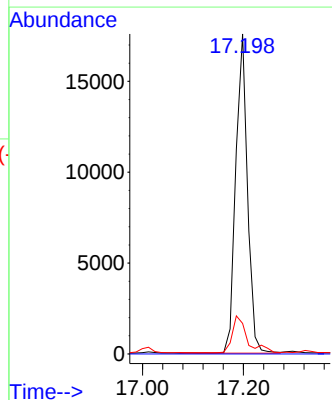
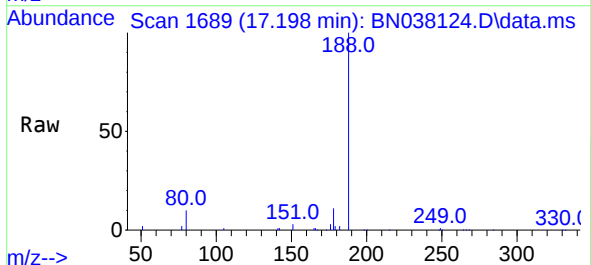
Instrument :
BNA_N
ClientSampleId :
38072-061125

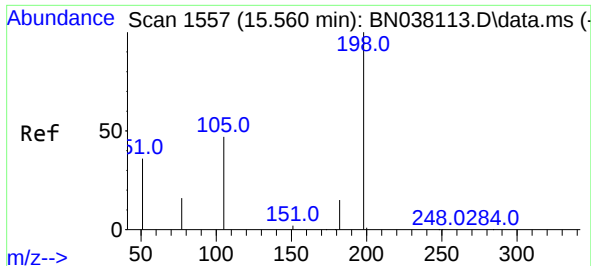
Tgt Ion:166 Resp: 9160875
Ion Ratio Lower Upper
166 100
165 93.9 79.0 118.4
167 14.5 10.7 16.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:188 Resp: 28411
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 8.6 13.0

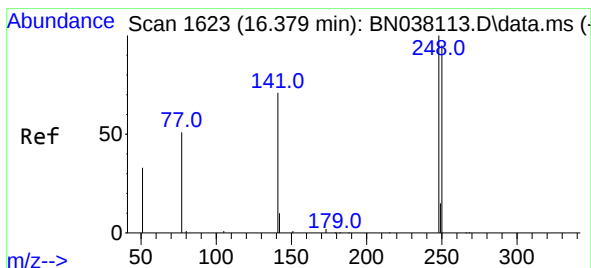
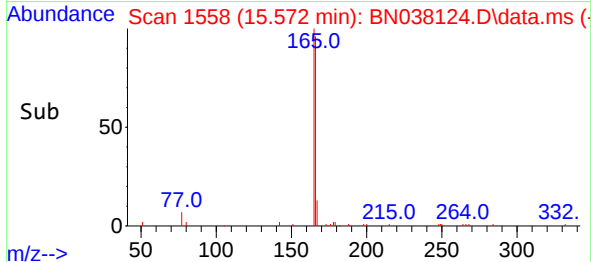
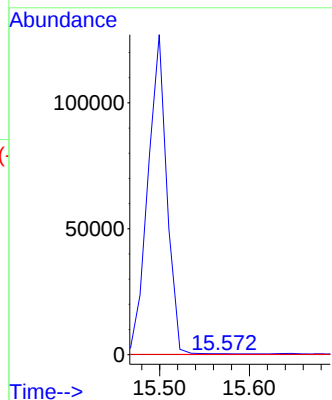
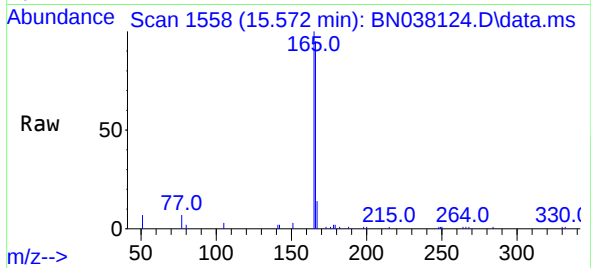




#20
4,6-Dinitro-2-methylphenol
Concen: 0.195 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

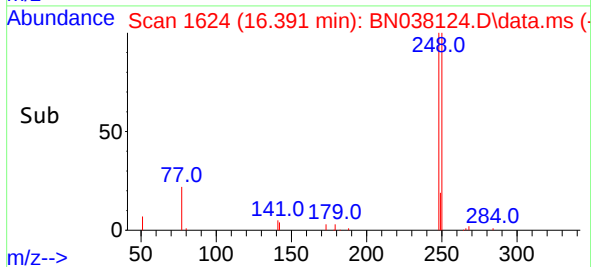
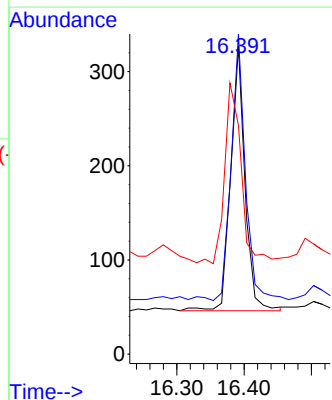
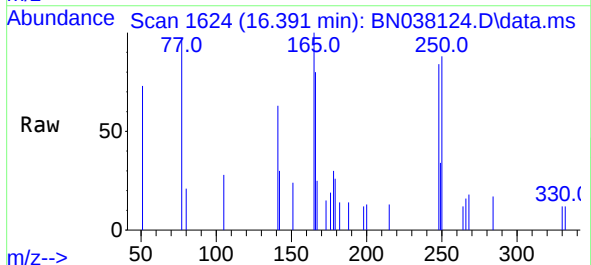
Instrument :
BNA_N
ClientSampleId :
38072-061125

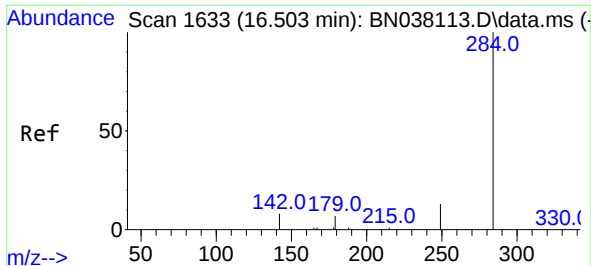
Tgt Ion:198 Resp: 64
Ion Ratio Lower Upper
198 100
51 453.8 88.9 133.3#
105 175.6 49.2 73.8#



#21
4-Bromophenyl-phenylether
Concen: 0.022 ng
RT: 16.391 min Scan# 1624
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:248 Resp: 413
Ion Ratio Lower Upper
248 100
250 104.0 76.2 114.2
141 74.3 57.6 86.4

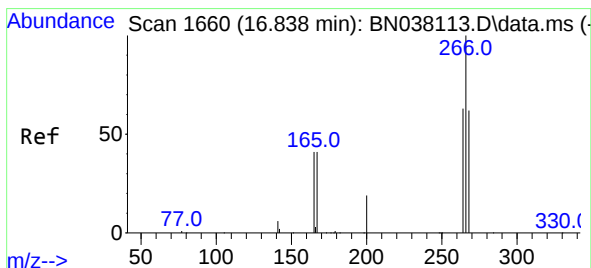
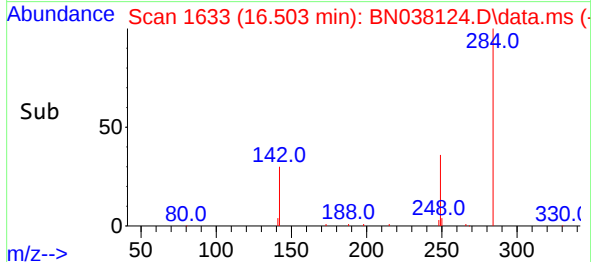
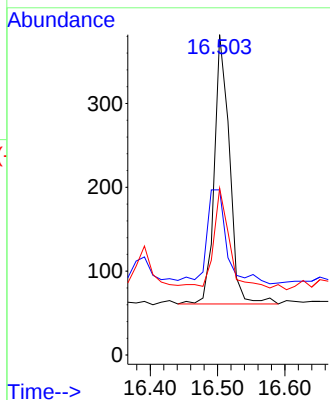
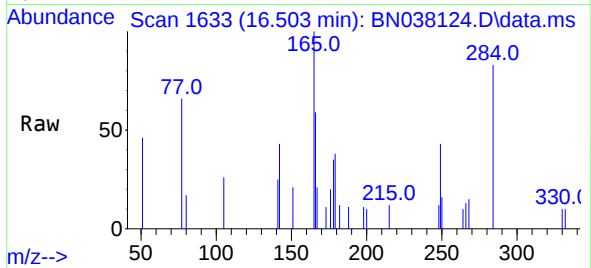




#22
Hexachlorobenzene
Concen: 0.024 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

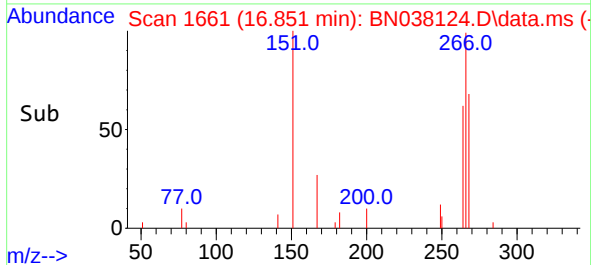
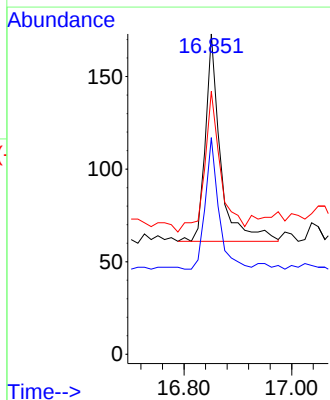
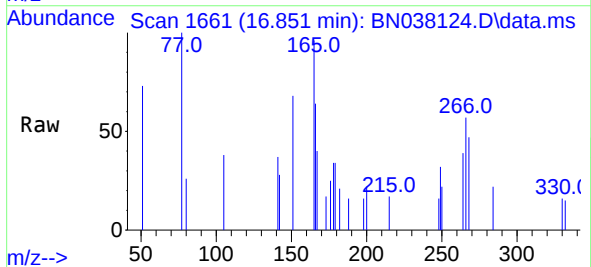
Instrument :
BNA_N
ClientSampleId :
38072-061125

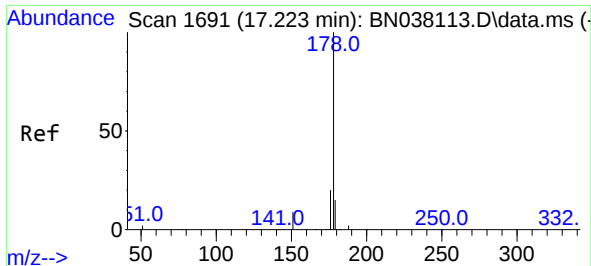
Tgt Ion:284 Resp: 501
Ion Ratio Lower Upper
284 100
142 46.7 30.5 45.7#
249 40.5 23.5 35.3#



#24
Pentachlorophenol
Concen: 0.024 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:266 Resp: 219
Ion Ratio Lower Upper
266 100
264 56.2 49.3 73.9
268 71.2 50.6 75.8

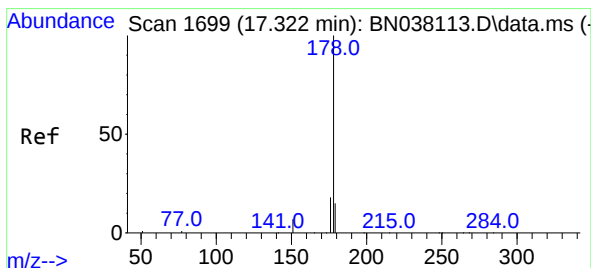
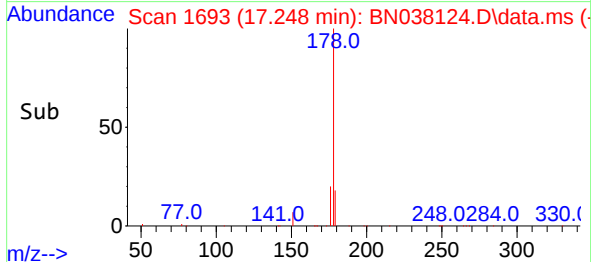
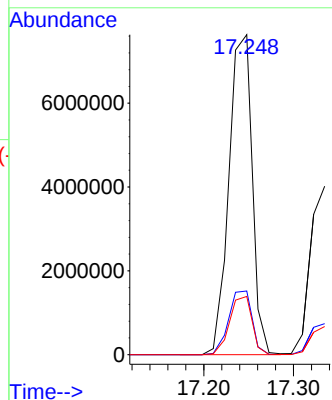
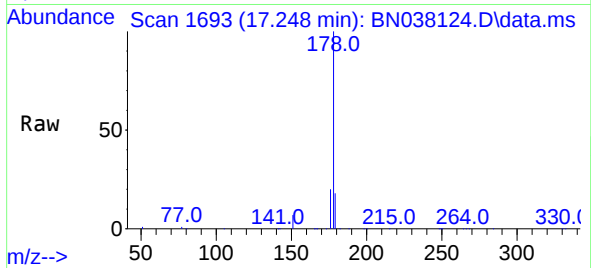




#25
Phenanthrene
Concen: 152.459 ng
RT: 17.248 min Scan# 1700
Delta R.T. 0.025 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

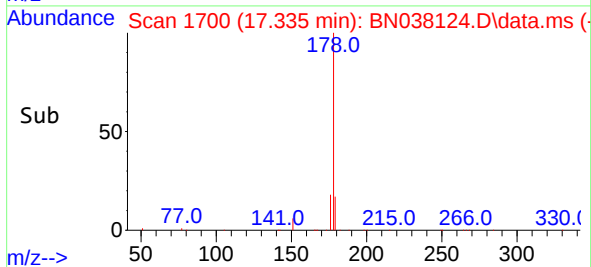
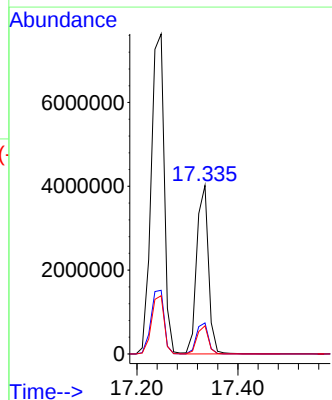
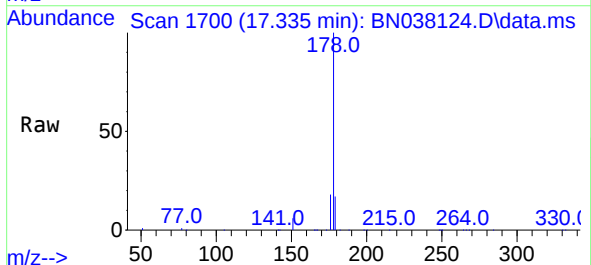
Instrument :
BNA_N
ClientSampleId :
38072-061125

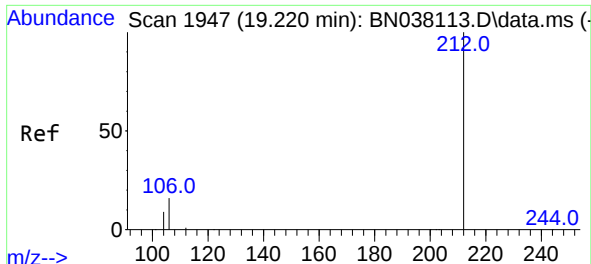
Tgt Ion:178 Resp:13751355
Ion Ratio Lower Upper
178 100
176 20.1 15.5 23.3
179 17.7 12.2 18.4



#26
Anthracene
Concen: 82.511 ng
RT: 17.335 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:178 Resp: 6510453
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 16.2 11.8 17.8

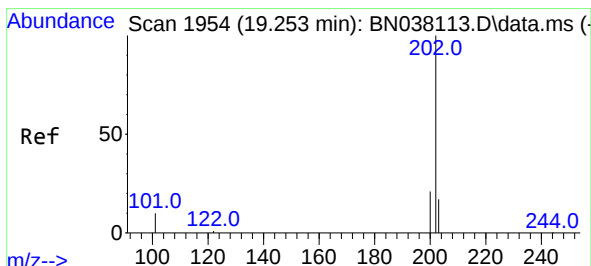
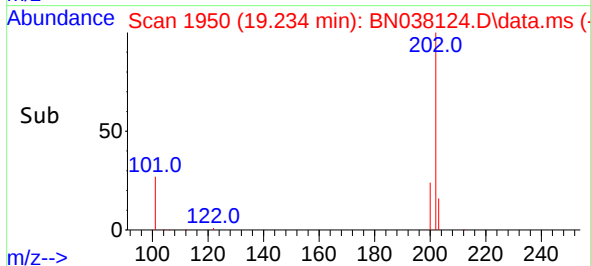
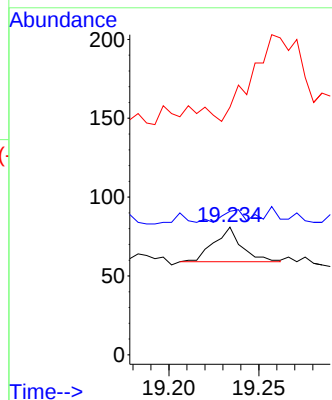
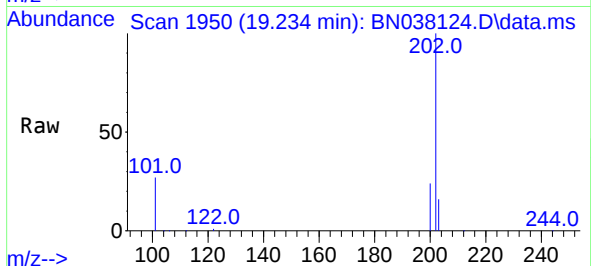




#27
Fluoranthene-d10
Concen: 0.000 ng
RT: 19.234 min Scan# 1947
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

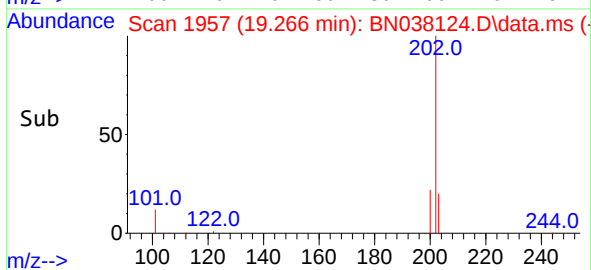
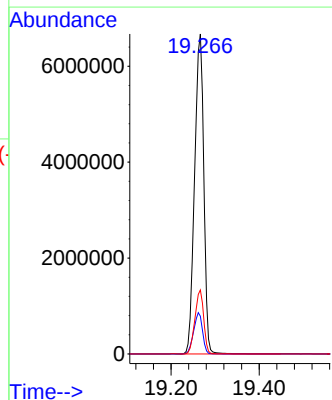
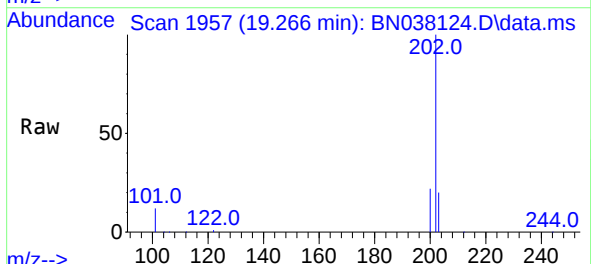
Instrument :
BNA_N
ClientSampleId :
38072-061125

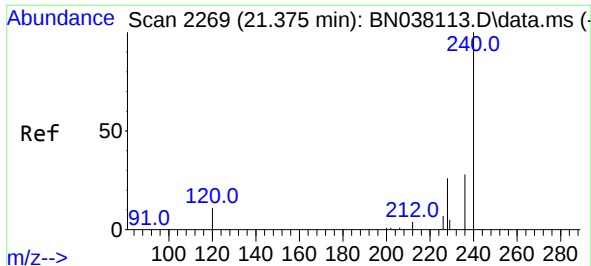
Tgt Ion:212 Resp: 24
Ion Ratio Lower Upper
212 100
106 41.7 12.6 19.0#
104 0.0 7.1 10.7#



#28
Fluoranthene
Concen: 95.598 ng
RT: 19.266 min Scan# 1957
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:202 Resp: 9634984
Ion Ratio Lower Upper
202 100
101 12.5 9.4 14.2
203 19.1 13.4 20.2

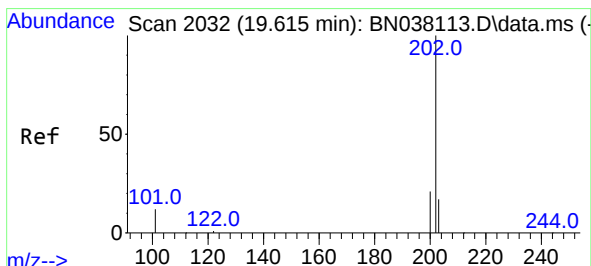
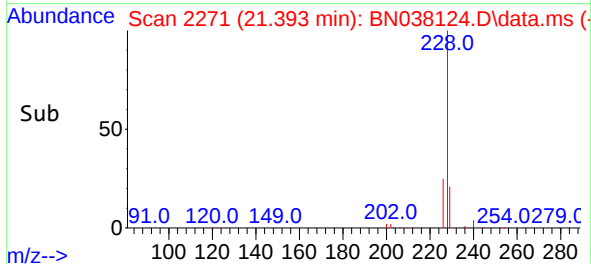
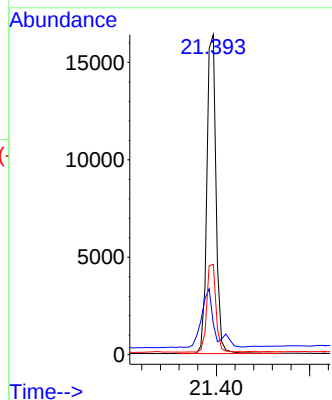
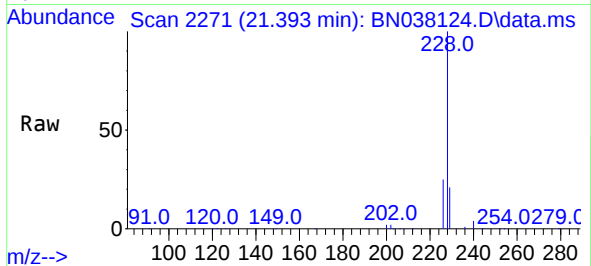




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. 0.018 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

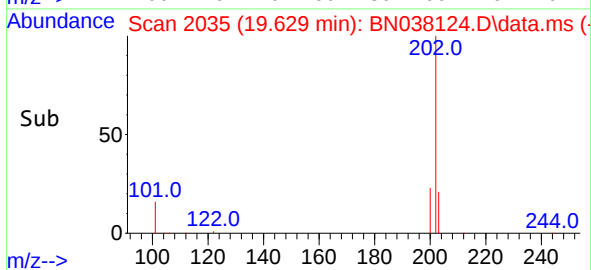
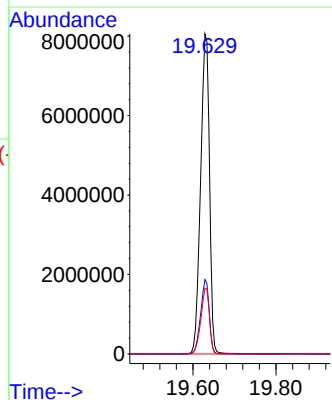
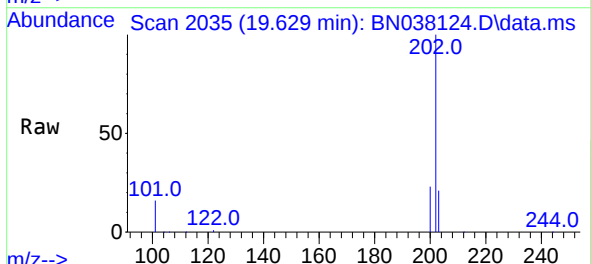
Instrument :
BNA_N
ClientSampleId :
38072-061125

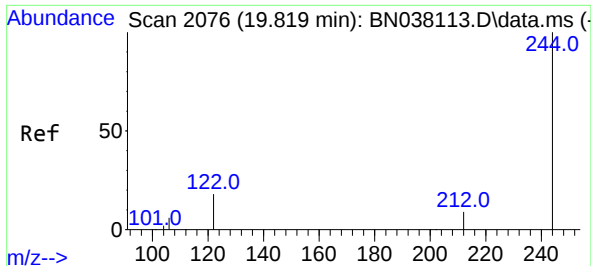
Tgt Ion:240 Resp: 22412
Ion Ratio Lower Upper
240 100
120 9.6 10.7 16.1#
236 28.2 23.1 34.7



#30
Pyrene
Concen: 118.769 ng
RT: 19.629 min Scan# 2035
Delta R.T. 0.019 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:202 Resp:12015753
Ion Ratio Lower Upper
202 100
200 22.4 16.7 25.1
203 20.0 14.2 21.2

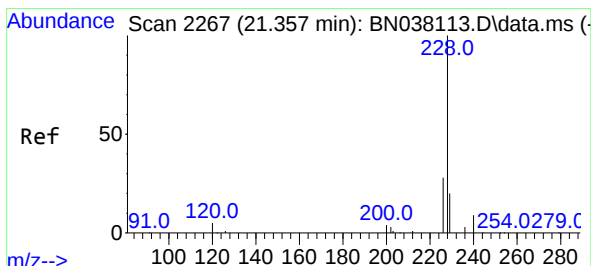
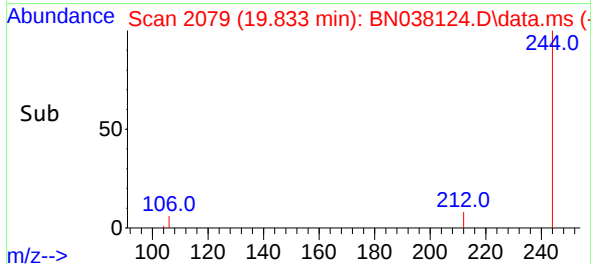
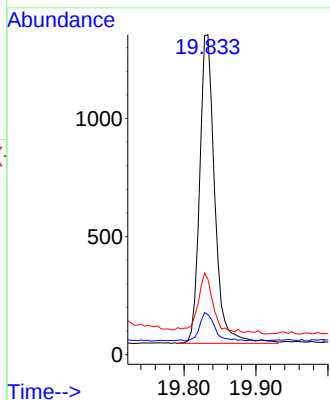
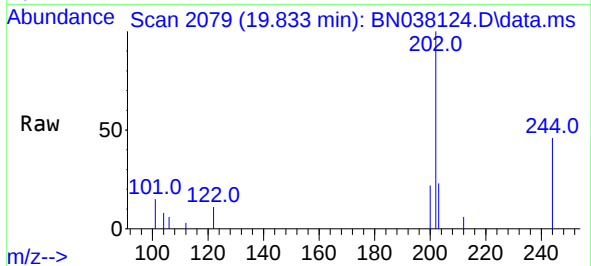




#31
 Terphenyl-d14
 Concen: 0.039 ng
 RT: 19.833 min Scan# 2079
 Delta R.T. 0.014 min
 Lab File: BN038124.D
 Acq: 30 Oct 2025 12:30

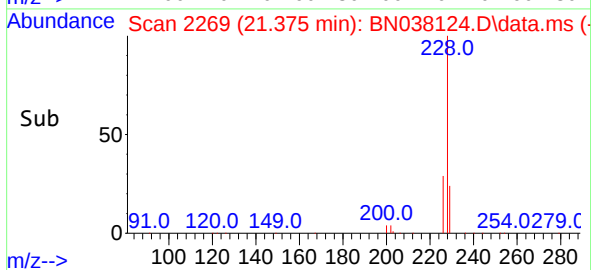
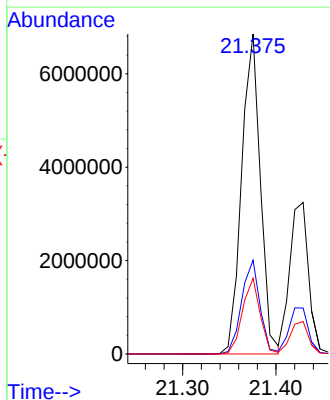
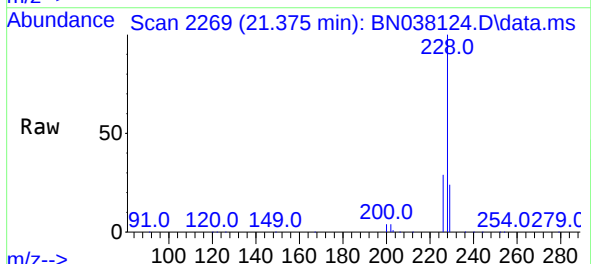
Instrument :
 BNA_N
 ClientSampleId :
 38072-061125

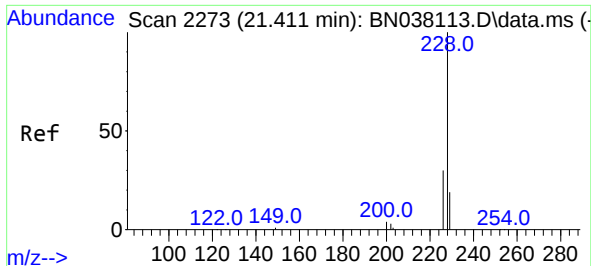
Tgt Ion:244 Resp: 1899
 Ion Ratio Lower Upper
 244 100
 212 12.5 7.8 11.6#
 122 23.5 15.2 22.8#



#32
 Benzo(a)anthracene
 Concen: 119.710 ng
 RT: 21.375 min Scan# 2269
 Delta R.T. 0.018 min
 Lab File: BN038124.D
 Acq: 30 Oct 2025 12:30

Tgt Ion:228 Resp: 9572045
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.2 33.4
 229 23.7 15.8 23.8

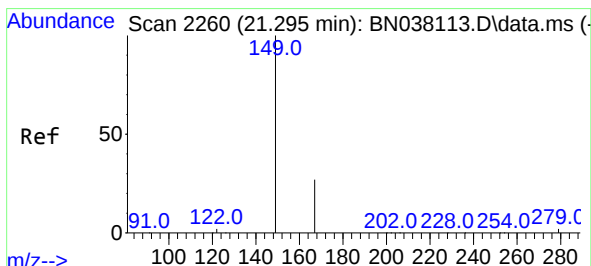
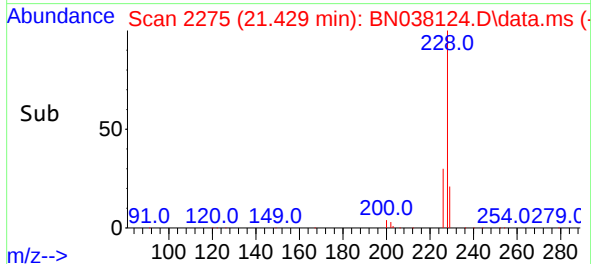
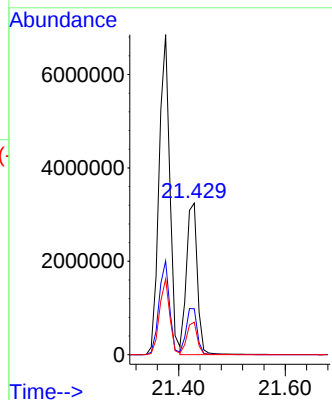
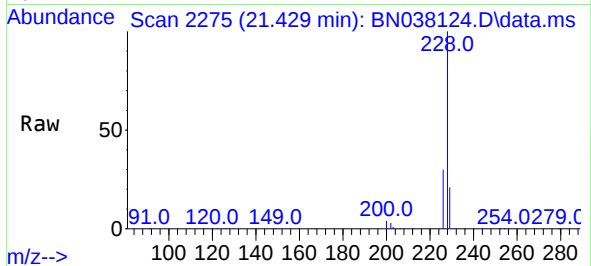




#33
Chrysene
Concen: 53.242 ng
RT: 21.429 min Scan# 214
Delta R.T. 0.018 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

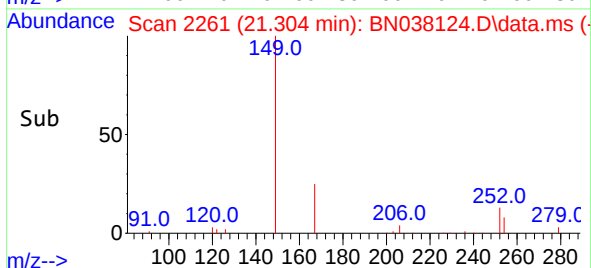
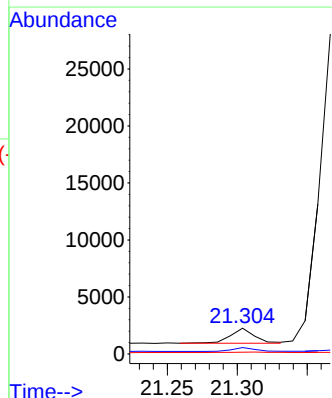
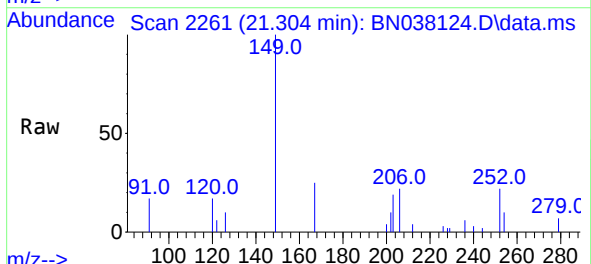
Instrument :
BNA_N
ClientSampleId :
38072-061125

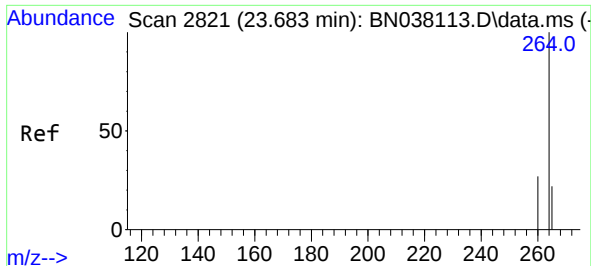
Tgt Ion:228 Resp: 4620050
Ion Ratio Lower Upper
228 100
226 30.2 24.3 36.5
229 21.5 15.7 23.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.037 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:149 Resp: 1569
Ion Ratio Lower Upper
149 100
167 23.8 21.1 31.7
279 5.2 2.9 4.3#

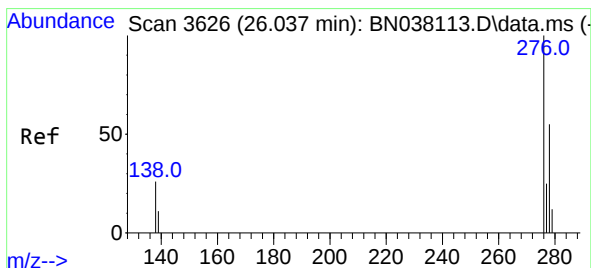
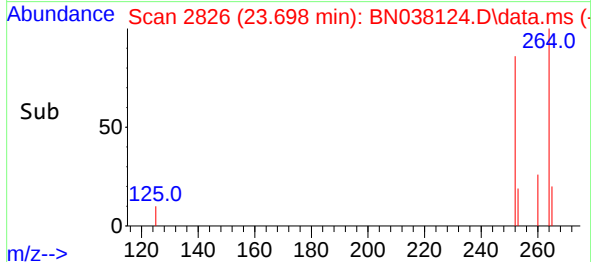
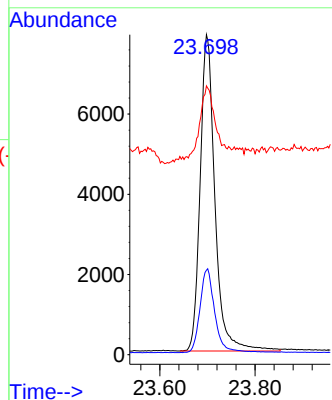
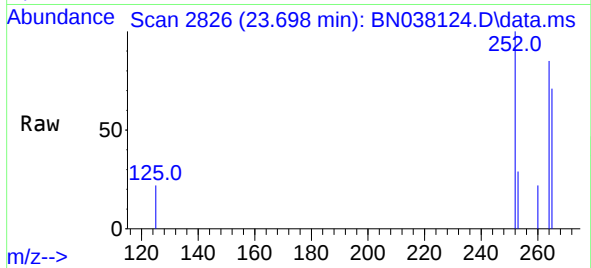




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.698 min Scan# 21
Delta R.T. 0.018 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

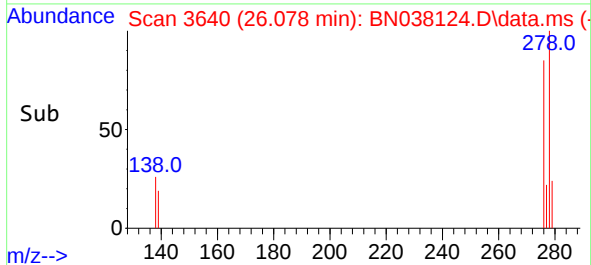
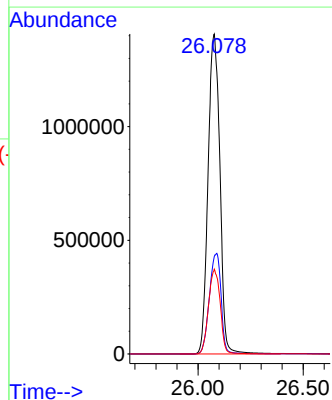
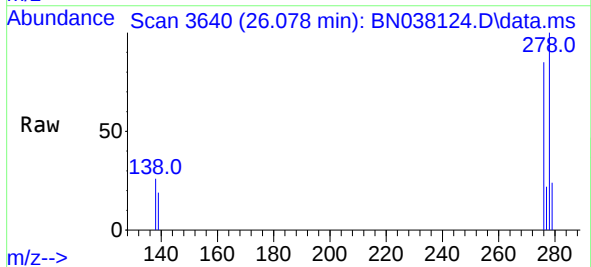
Instrument :
BNA_N
ClientSampleId :
38072-061125

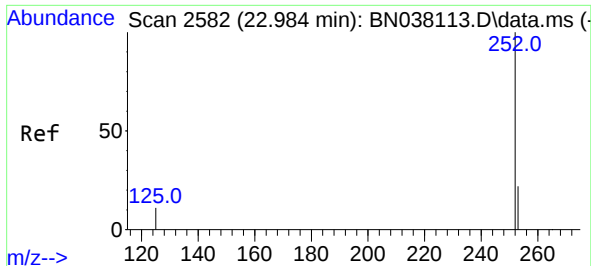
Tgt Ion:264 Resp: 16991
Ion Ratio Lower Upper
264 100
260 26.4 21.8 32.8
265 84.0 68.6 102.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 78.714 ng
RT: 26.078 min Scan# 3640
Delta R.T. 0.044 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:276 Resp: 5494902
Ion Ratio Lower Upper
276 100
138 31.3 21.4 32.0
277 26.3 19.2 28.8

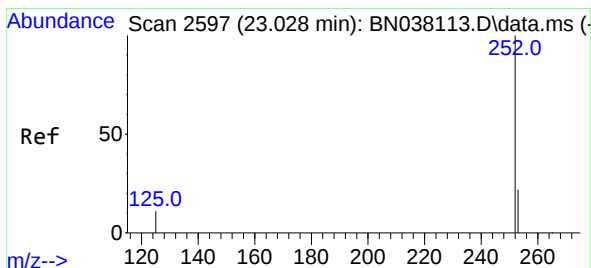
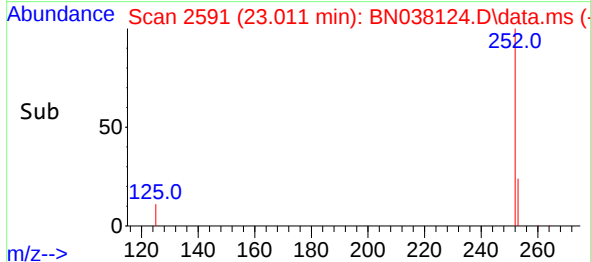
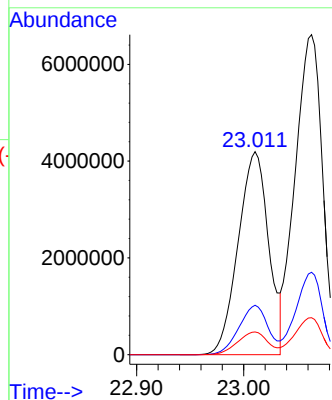
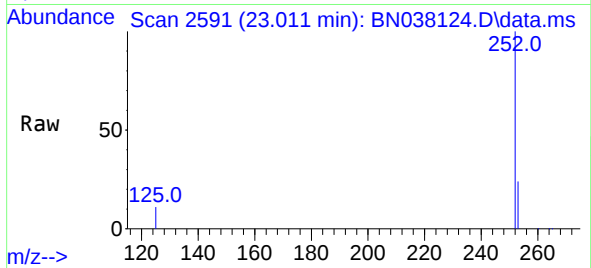




#37
Benzo(b)fluoranthene
Concen: 114.356 ng
RT: 23.011 min Scan# 21
Delta R.T. 0.029 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

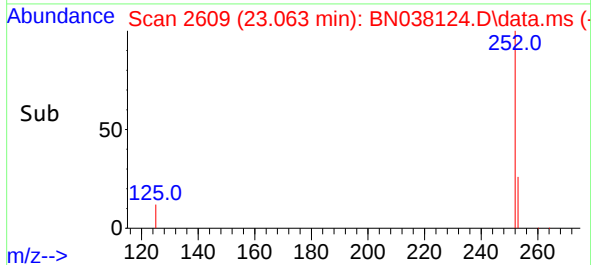
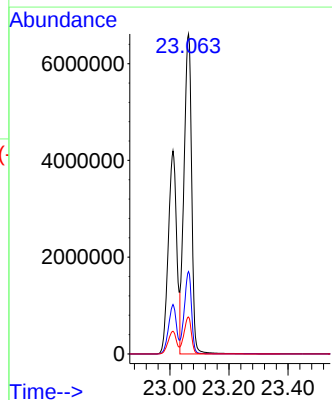
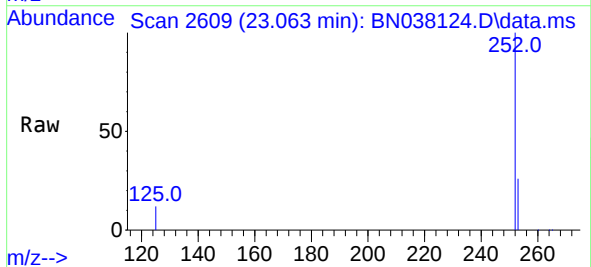
Instrument :
BNA_N
ClientSampleId :
38072-061125

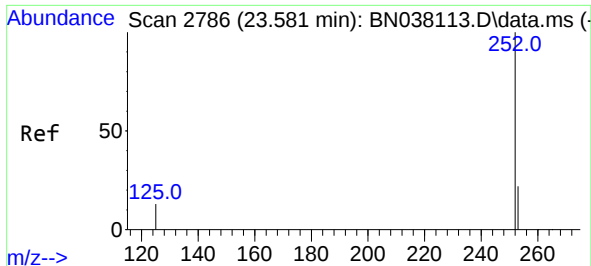
Tgt Ion:252 Resp: 8307408
Ion Ratio Lower Upper
252 100
253 24.3 20.9 31.3
125 11.2 14.1 21.1#



#38
Benzo(k)fluoranthene
Concen: 162.353 ng
RT: 23.063 min Scan# 2609
Delta R.T. 0.035 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:252 Resp:11871132
Ion Ratio Lower Upper
252 100
253 25.8 21.2 31.8
125 11.5 14.6 22.0#

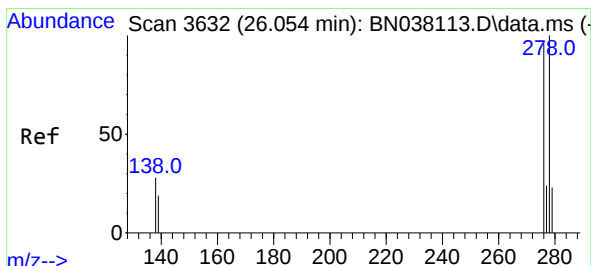
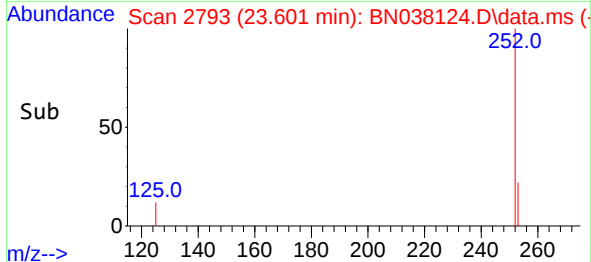
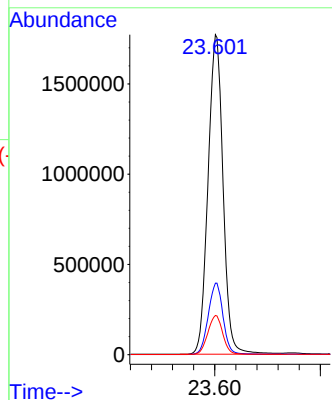
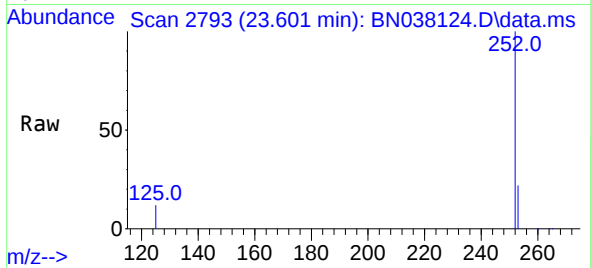




#39
Benzo(a)pyrene
Concen: 60.049 ng
RT: 23.601 min Scan# 21
Delta R.T. 0.023 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

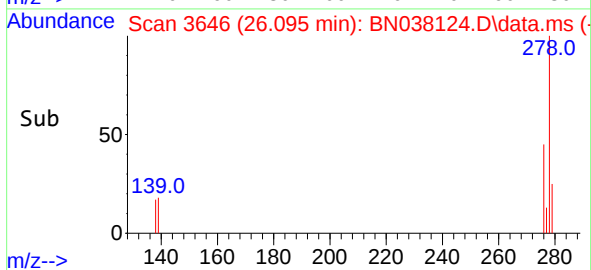
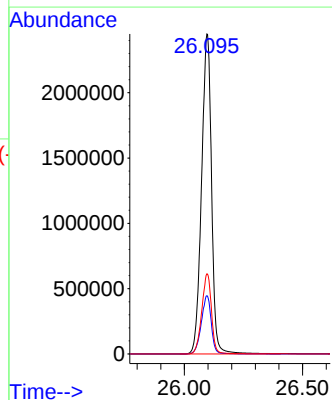
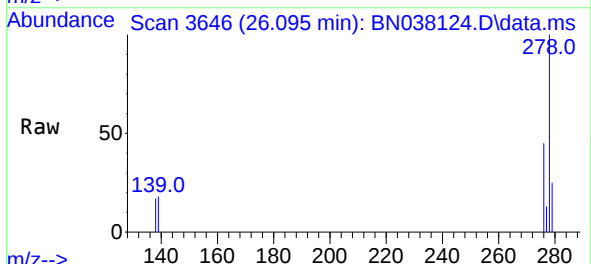
Instrument :
BNA_N
ClientSampleId :
38072-061125

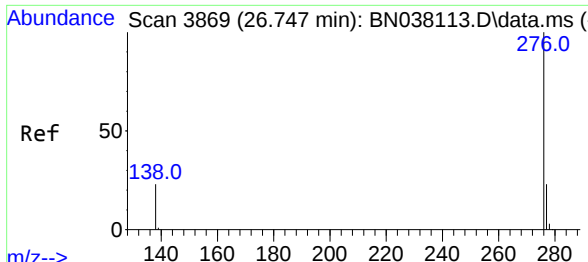
Tgt Ion:252 Resp: 3491807
Ion Ratio Lower Upper
252 100
253 22.3 23.1 34.7#
125 12.3 18.6 28.0#



#40
Dibenzo(a,h)anthracene
Concen: 134.414 ng
RT: 26.095 min Scan# 3646
Delta R.T. 0.047 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Tgt Ion:278 Resp: 7219874
Ion Ratio Lower Upper
278 100
139 18.2 17.6 26.4
279 25.1 22.6 33.8





#41
Benzo(g,h,i)perylene
Concen: 63.890 ng
RT: 26.794 min Scan# 3885
Delta R.T. 0.044 min
Lab File: BN038124.D
Acq: 30 Oct 2025 12:30

Instrument :
BNA_N
ClientSampleId :
38072-061125

Tgt Ion:276 Resp: 3919580
Ion Ratio Lower Upper
276 100
277 23.9 19.7 29.5
138 23.5 20.2 30.4

