

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
 Data File : BN037153.D
 Acq On : 03 Jun 2025 18:18
 Operator : RC/JU
 Sample : Q2181-01DL 50X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-062624DL

Quant Time: Jun 04 02:16:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

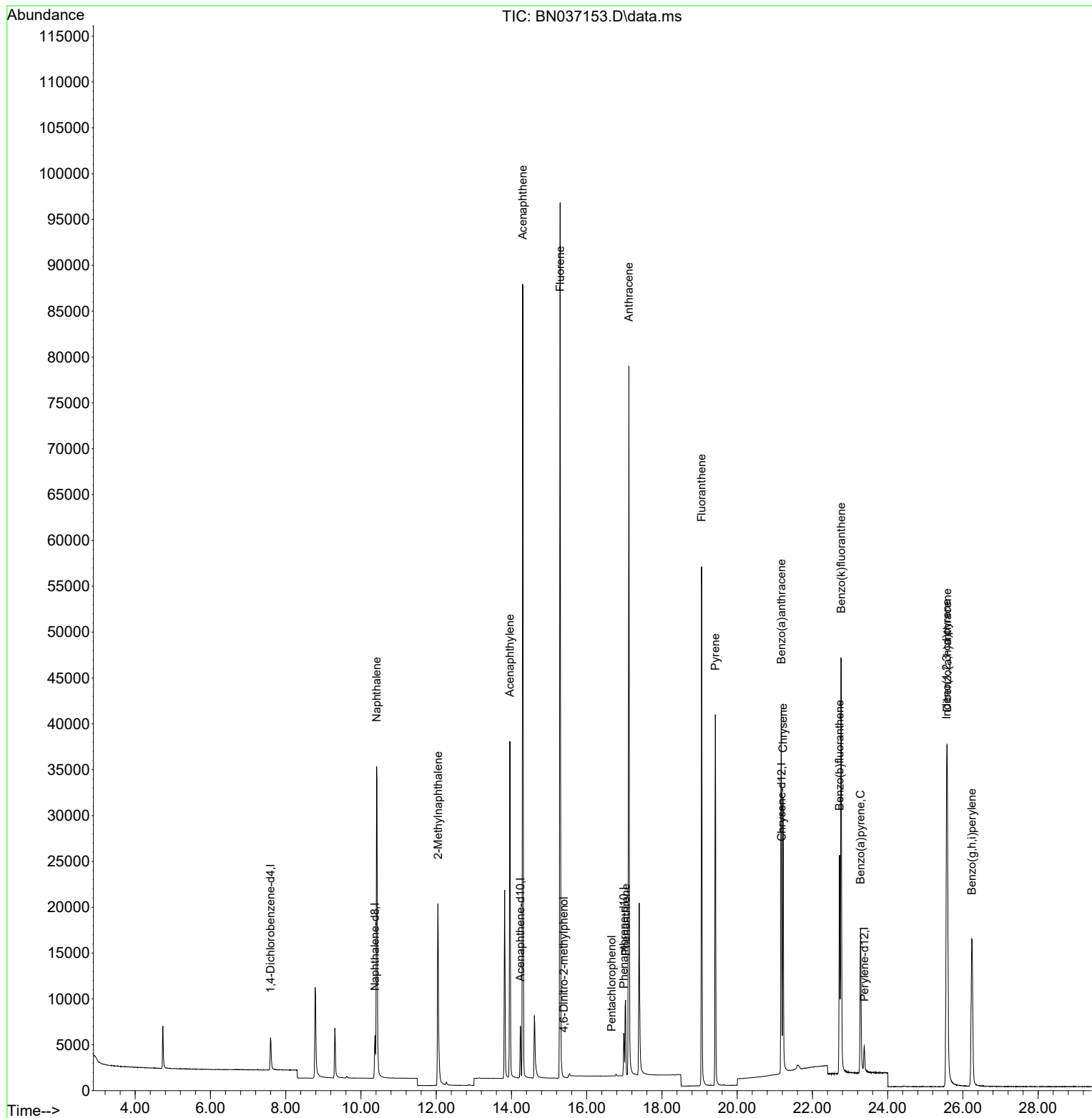
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.596	152	2324	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	6120	0.400	ng	0.00
13) Acenaphthene-d10	14.234	164	3333	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	6288	0.400	ng	0.00
29) Chrysene-d12	21.180	240	4597	0.400	ng	# 0.00
35) Perylene-d12	23.377	264	3669	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	40	0.007	ng	0.00
5) Phenol-d6	6.795	99	37	0.005	ng	0.02
8) Nitrobenzene-d5	8.739	82	60	0.009	ng	0.00
11) 2-Methylnaphthalene-d10	11.970	152	72	0.008	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	6	0.004	ng	0.02
15) 2-Fluorobiphenyl	12.883	172	114	0.008	ng	0.02
27) Fluoranthene-d10	19.021	212	141	0.009	ng	0.00
31) Terphenyl-d14	19.644	244	93	0.009	ng	0.00
Target Compounds						
9) Naphthalene	10.415	128	49727	2.816	ng	97
12) 2-Methylnaphthalene	12.046	142	17461	1.543	ng	96
16) Acenaphthylene	13.956	152	37740	2.310	ng	99
17) Acenaphthene	14.299	154	39265	3.701	ng	98
18) Fluorene	15.293	166	54997	3.943	ng	99
20) 4,6-Dinitro-2-methylph...	15.389	198	3	0.276	ng	# 1
24) Pentachlorophenol	16.661	266	4	0.217	ng	# 20
25) Phenanthrene	17.033	178	9486	0.466	ng	100
26) Anthracene	17.120	178	77911	4.191	ng	99
28) Fluoranthene	19.054	202	51595	2.293	ng	99
30) Pyrene	19.416	202	37373	1.665	ng	100
32) Benzo(a)anthracene	21.171	228	33315	2.002	ng	99
33) Chrysene	21.215	228	26438	1.427	ng	99
36) Indeno(1,2,3-cd)pyrene	25.567	276	51464	3.526	ng	99
37) Benzo(b)fluoranthene	22.719	252	27512	1.858	ng	# 91
38) Benzo(k)fluoranthene	22.760	252	56528	3.738	ng	# 89
39) Benzo(a)pyrene	23.278	252	24186	1.950	ng	# 86
40) Dibenzo(a,h)anthracene	25.582	278	30813	2.737	ng	# 89
41) Benzo(g,h,i)perylene	26.236	276	32541	2.517	ng	97

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

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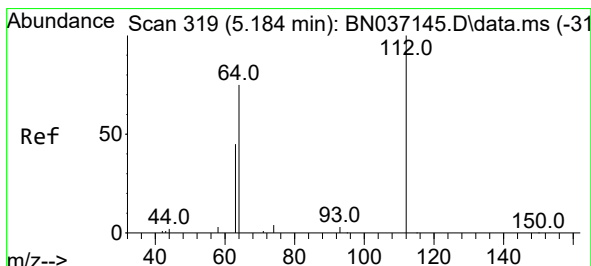
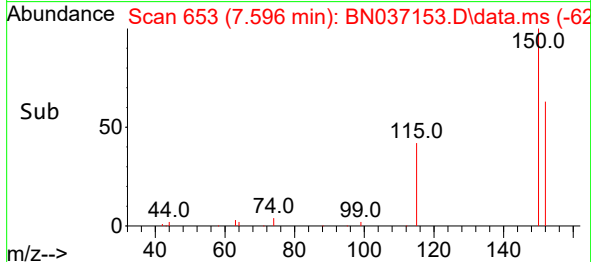
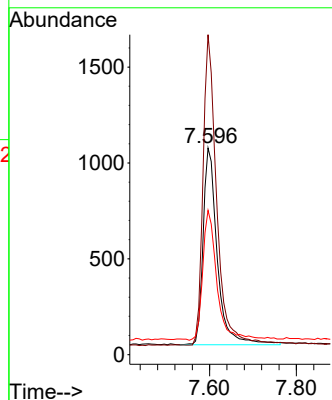
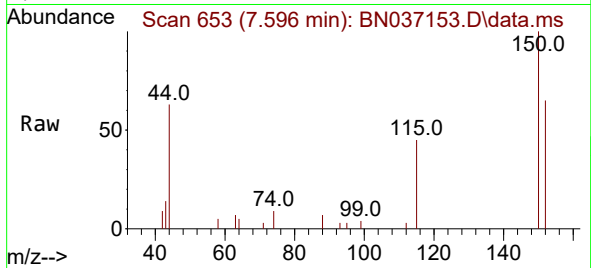




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.596 min Scan# 61
Delta R.T. 0.006 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

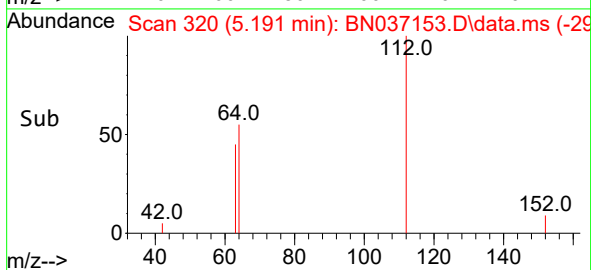
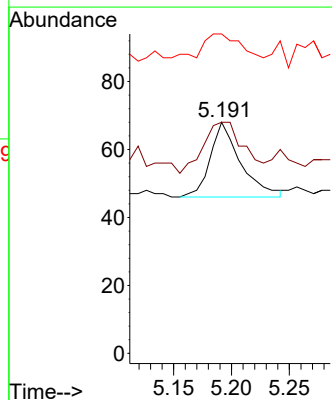
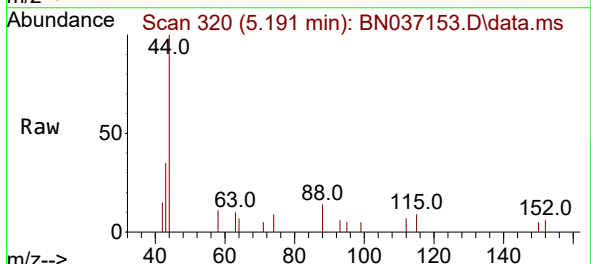
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

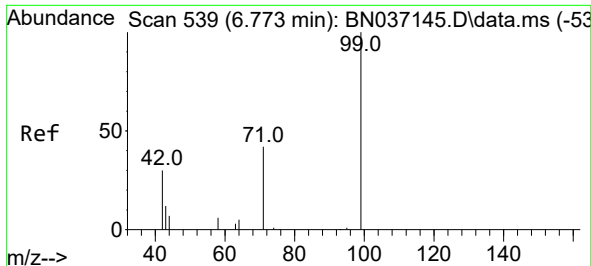
Tgt Ion:152 Resp: 2324
Ion Ratio Lower Upper
152 100
150 154.8 123.2 184.8
115 69.9 56.6 85.0



#4
2-Fluorophenol
Concen: 0.007 ng
RT: 5.191 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

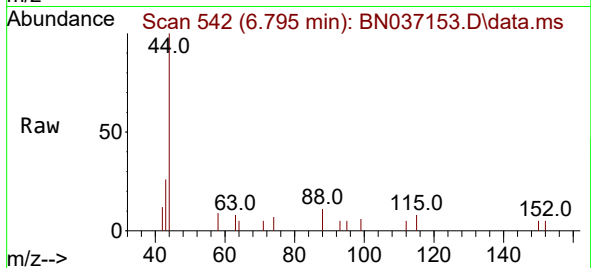
Tgt Ion:112 Resp: 40
Ion Ratio Lower Upper
112 100
64 90.0 56.3 84.5#
63 65.0 36.2 54.4#



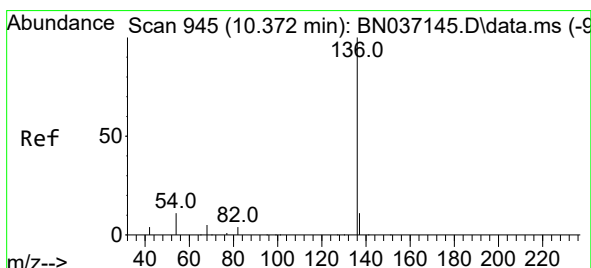
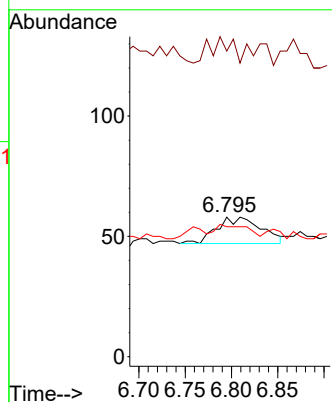
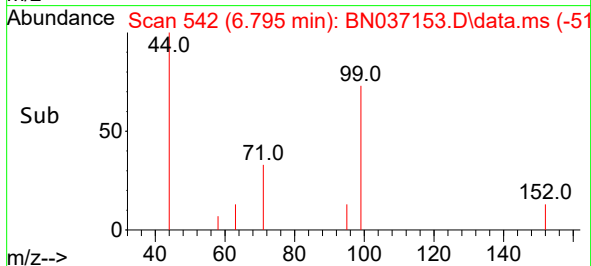


#5
Phenol-d6
Concen: 0.005 ng
RT: 6.795 min Scan# 54
Delta R.T. 0.021 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

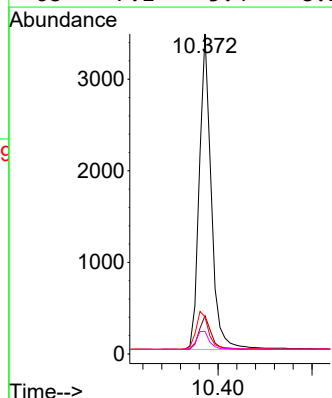
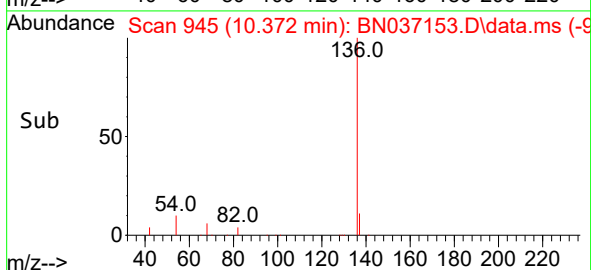
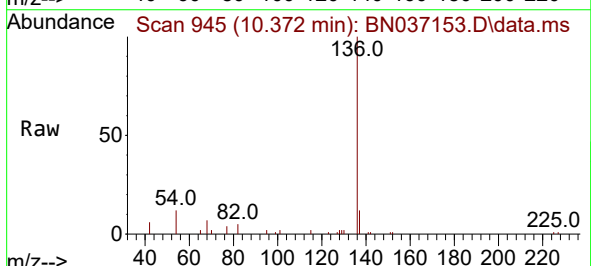


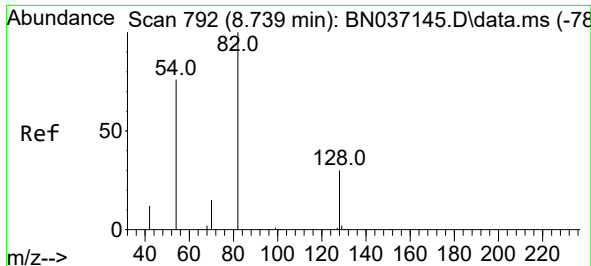
Tgt Ion: 99 Resp: 37
Ion Ratio Lower Upper
99 100
42 45.9 31.3 46.9
71 29.7 38.2 57.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:136 Resp: 6120
Ion Ratio Lower Upper
136 100
137 12.0 9.7 14.5
54 11.5 9.7 14.5
68 7.1 5.4 8.2

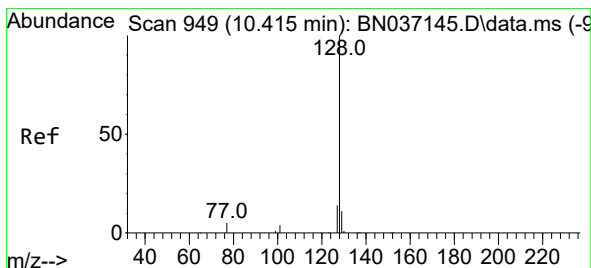
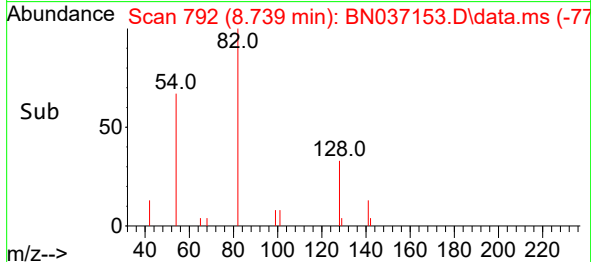
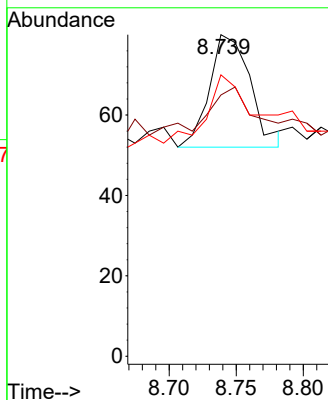
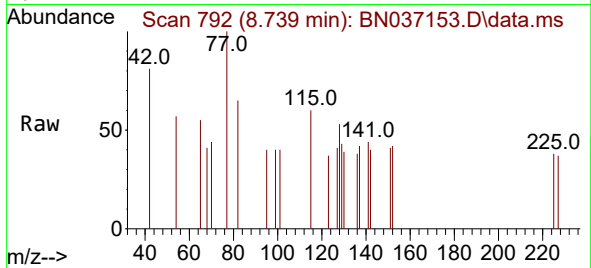




#8
Nitrobenzene-d5
Concen: 0.009 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

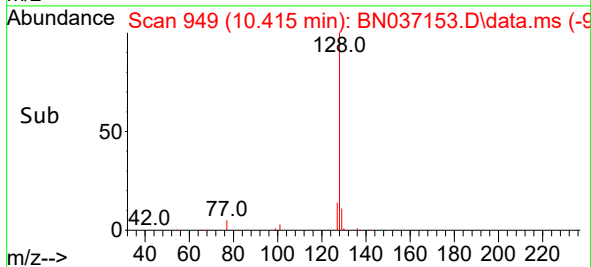
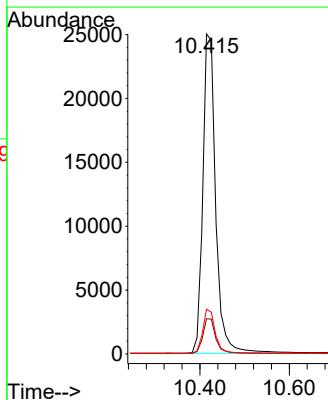
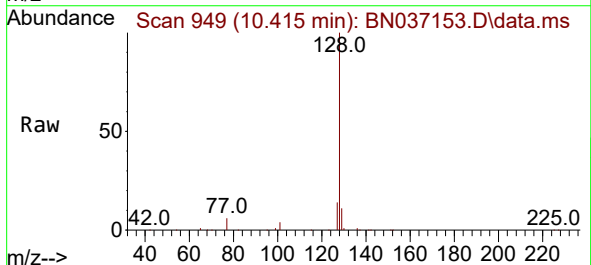
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

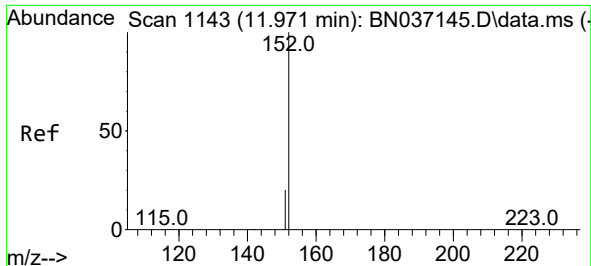
Tgt Ion: 82 Resp: 60
Ion Ratio Lower Upper
82 100
128 81.3 26.9 40.3#
54 87.5 61.4 92.2



#9
Naphthalene
Concen: 2.816 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion: 128 Resp: 49727
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.8
127 14.0 12.3 18.5

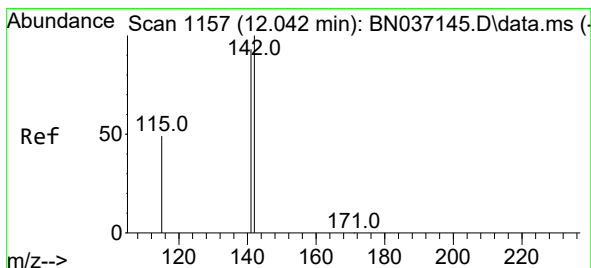
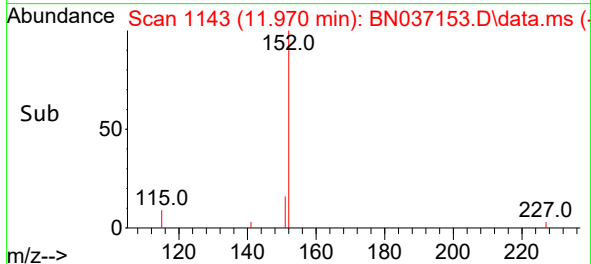
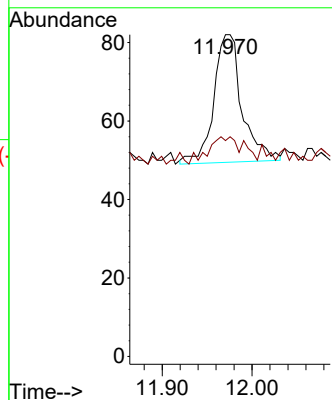
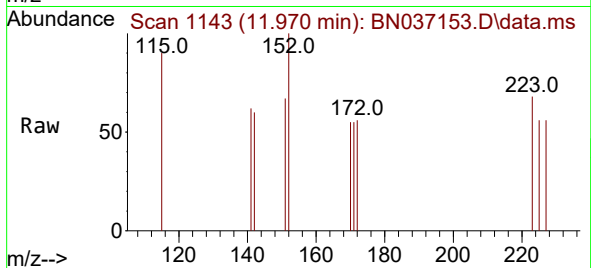




#11
2-Methylnaphthalene-d10
Concen: 0.008 ng
RT: 11.970 min Scan# 1143
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

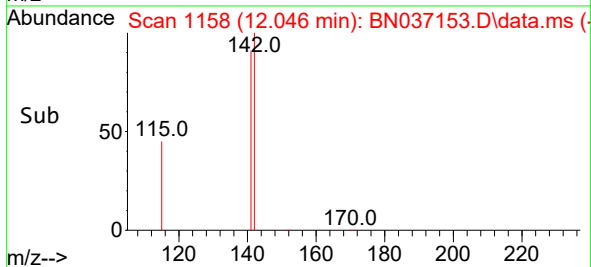
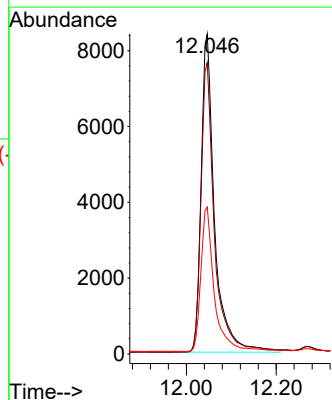
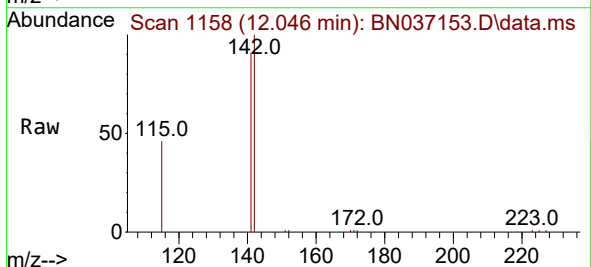
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

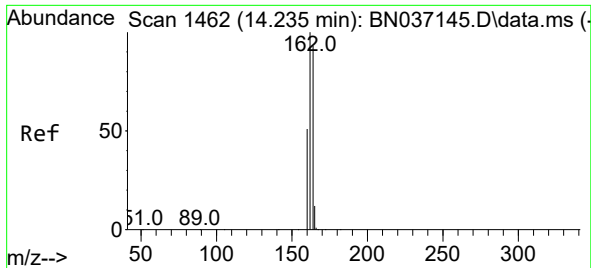
Tgt Ion:152 Resp: 72
Ion Ratio Lower Upper
152 100
151 20.8 17.1 25.7



#12
2-Methylnaphthalene
Concen: 1.543 ng
RT: 12.046 min Scan# 1158
Delta R.T. 0.005 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:142 Resp: 17461
Ion Ratio Lower Upper
142 100
141 91.1 74.6 111.8
115 45.9 41.0 61.4

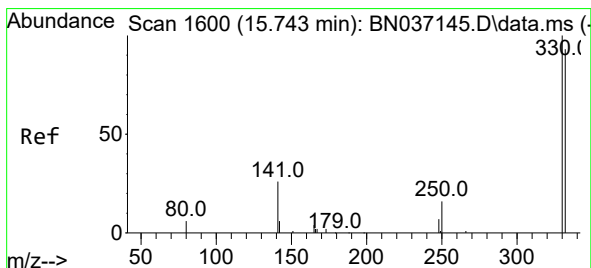
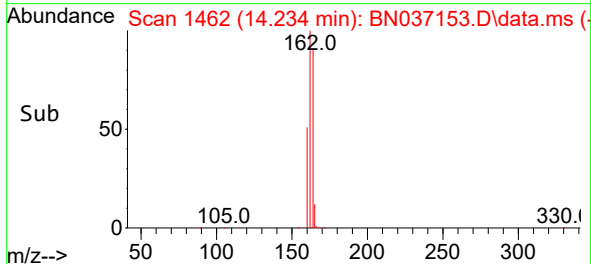
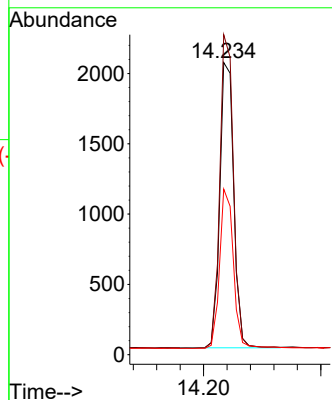
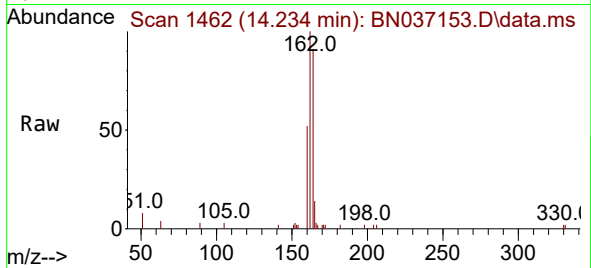




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

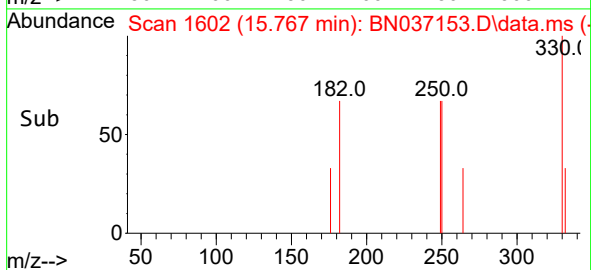
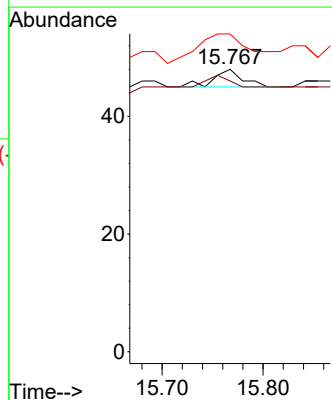
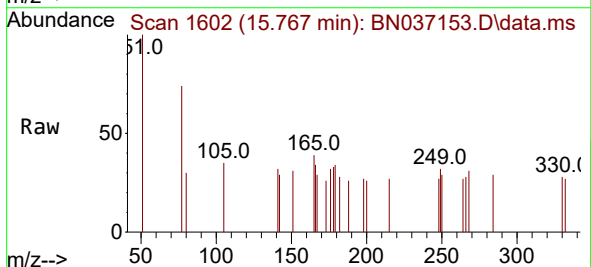
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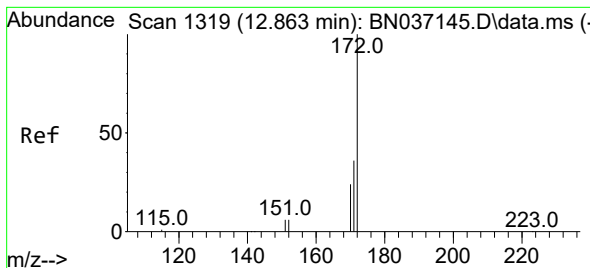
Tgt Ion:164 Resp: 3333
Ion Ratio Lower Upper
164 100
162 109.5 85.5 128.3
160 56.7 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.004 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.025 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:330 Resp: 6
Ion Ratio Lower Upper
330 100
332 50.0 77.1 115.7#
141 300.0 46.4 69.6#





#15

2-Fluorobiphenyl

Concen: 0.008 ng

RT: 12.883 min Scan# 11

Delta R.T. 0.020 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

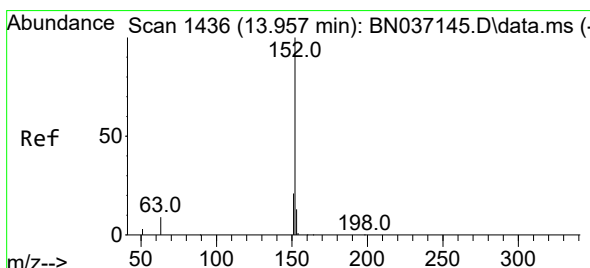
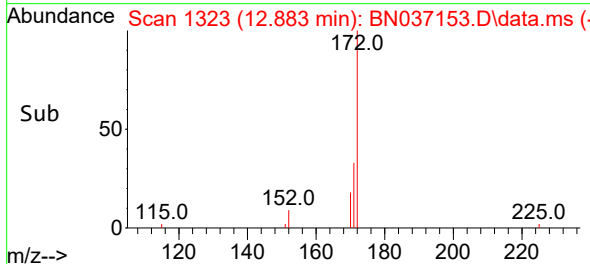
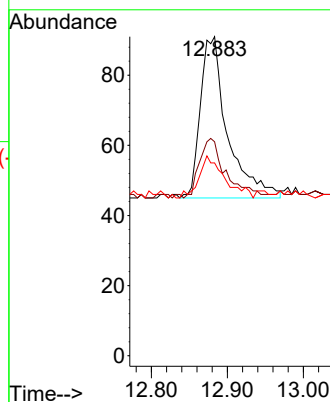
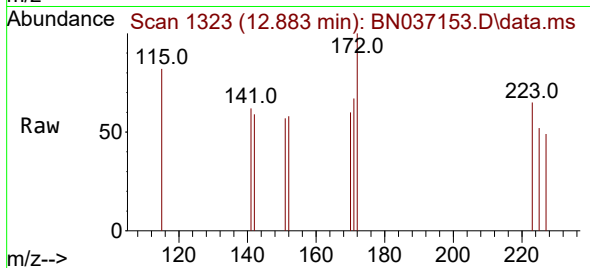
Tgt Ion:172 Resp: 114

Ion Ratio Lower Upper

172 100

171 67.0 29.6 44.4#

170 60.4 20.3 30.5#



#16

Acenaphthylene

Concen: 2.310 ng

RT: 13.956 min Scan# 1436

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

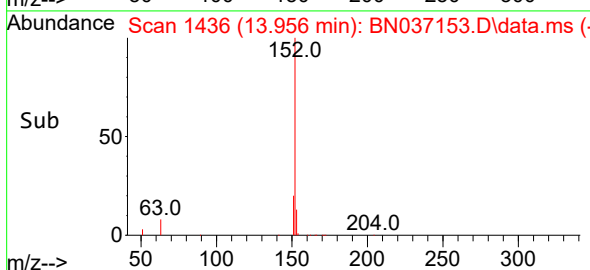
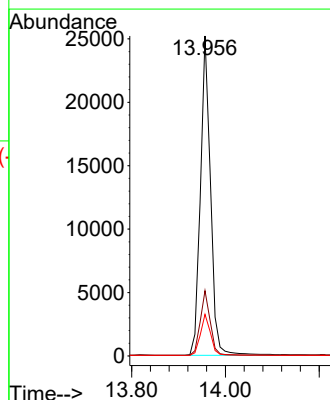
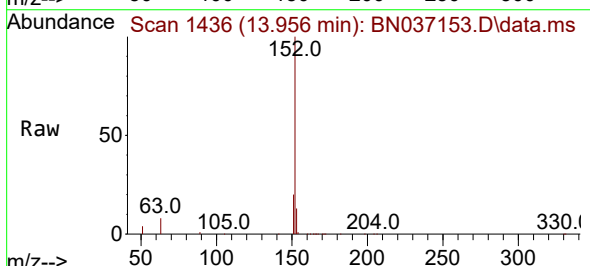
Tgt Ion:152 Resp: 37740

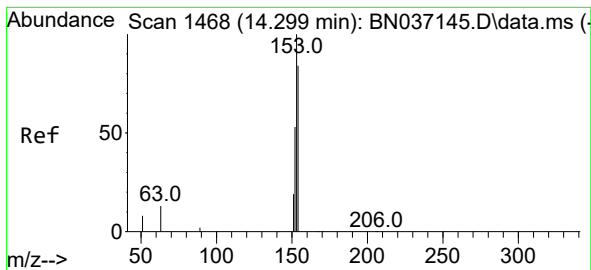
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 3.701 ng

RT: 14.299 min Scan# 1468

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

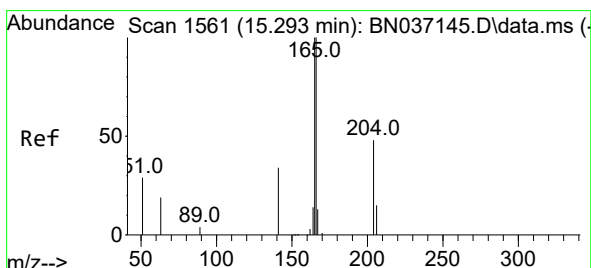
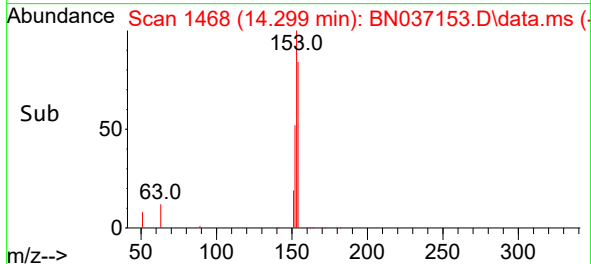
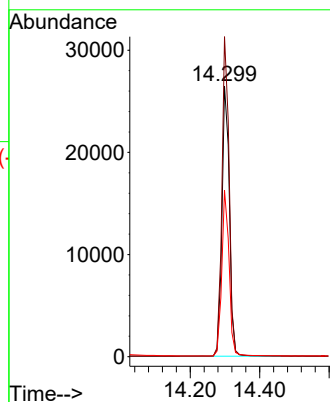
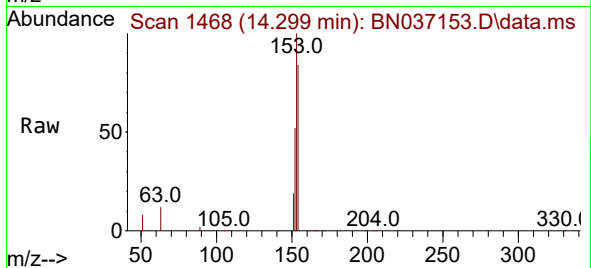
Tgt Ion:154 Resp: 39265

Ion Ratio Lower Upper

154 100

153 116.2 93.8 140.8

152 60.6 50.5 75.7



#18

Fluorene

Concen: 3.943 ng

RT: 15.293 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

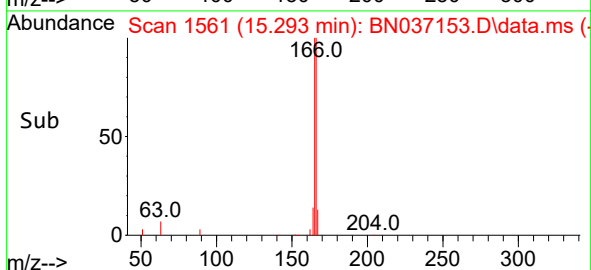
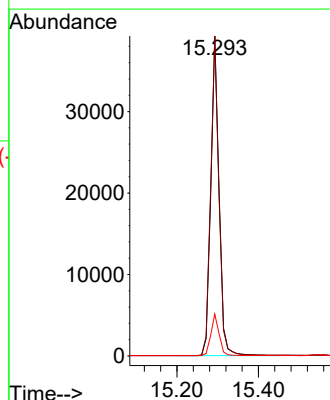
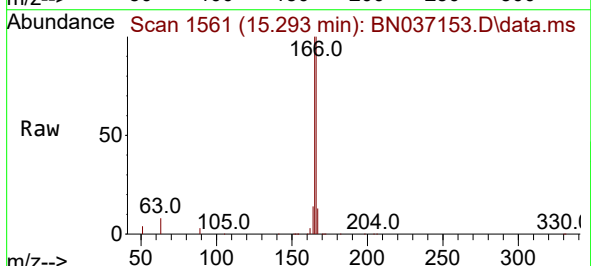
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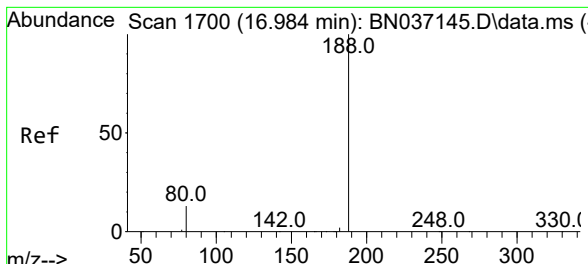
Ion Ratio Lower Upper

166 100

165 100.2 81.1 121.7

167 13.0 10.8 16.2

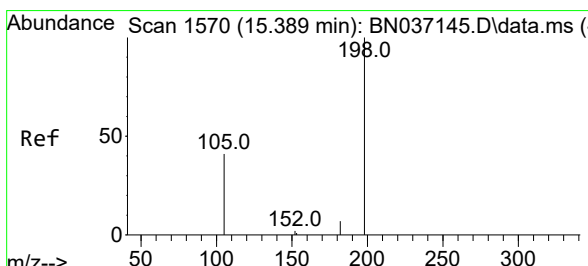
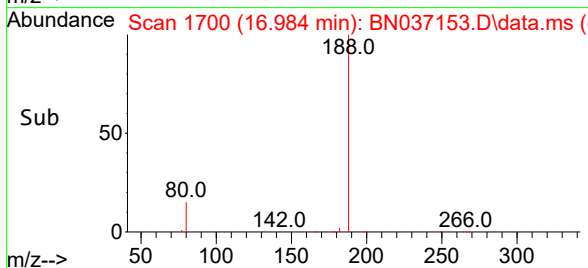
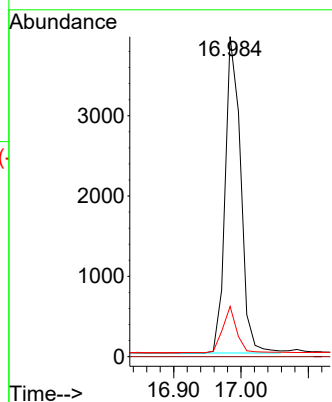
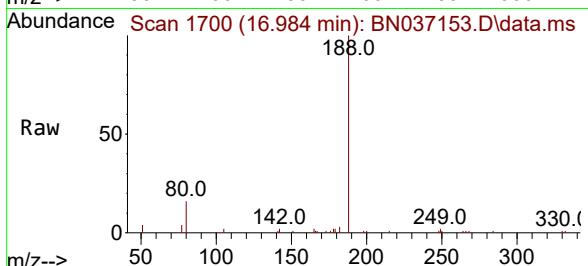




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

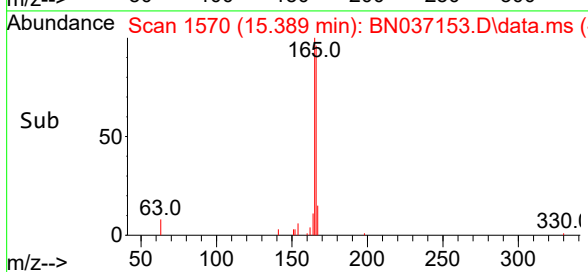
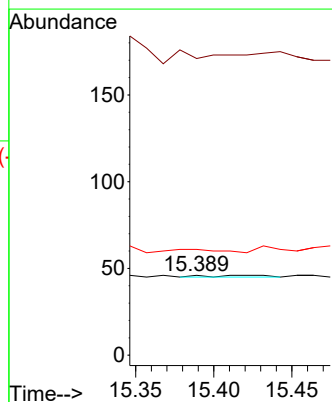
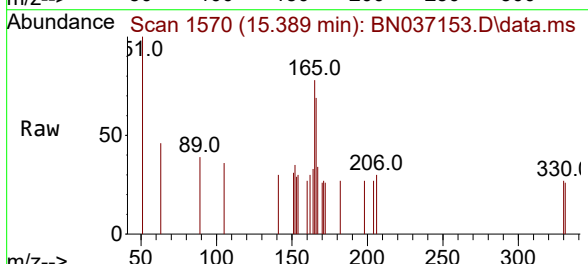
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

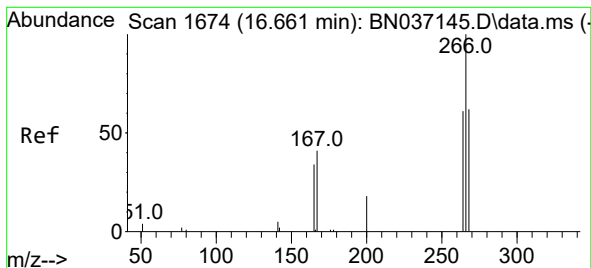
Tgt Ion:188 Resp: 6288
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.7 11.3 16.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.276 ng
RT: 15.389 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:198 Resp: 3
Ion Ratio Lower Upper
198 100
51 371.7 125.2 187.8#
105 132.6 57.1 85.7#





#24

Pentachlorophenol

Concen: 0.217 ng

RT: 16.661 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

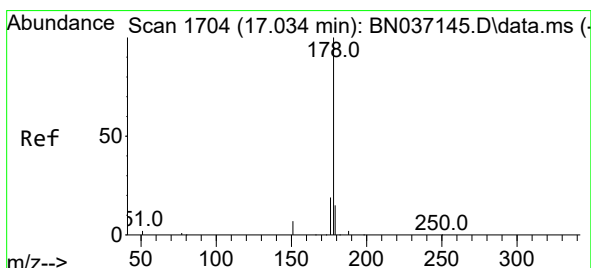
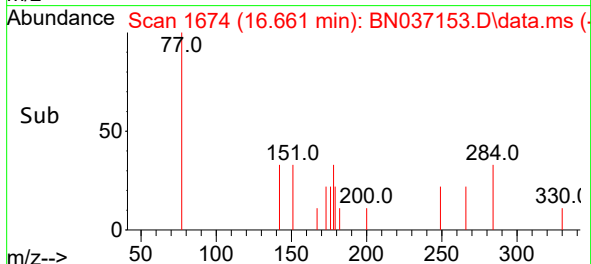
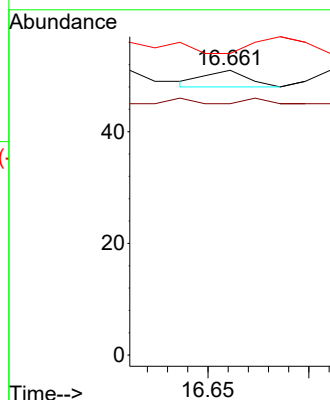
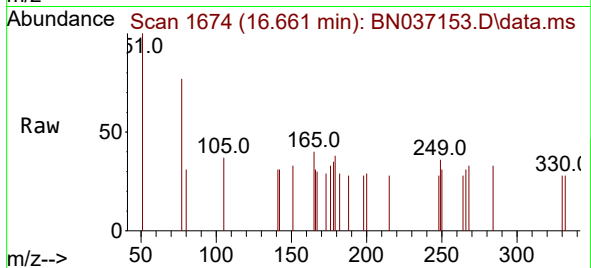
Tgt Ion:266 Resp: 4

Ion Ratio Lower Upper

266 100

264 0.0 49.3 73.9#

268 0.0 49.0 73.4#



#25

Phenanthrene

Concen: 0.466 ng

RT: 17.033 min Scan# 1704

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

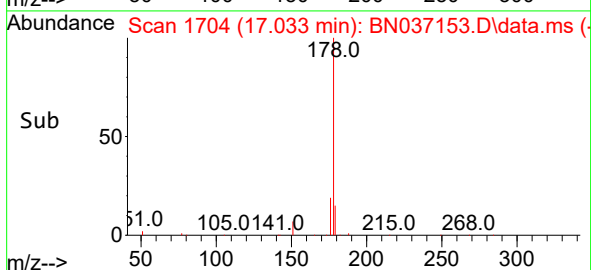
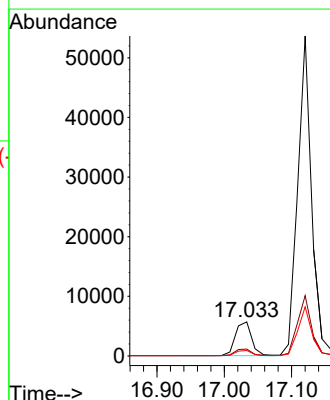
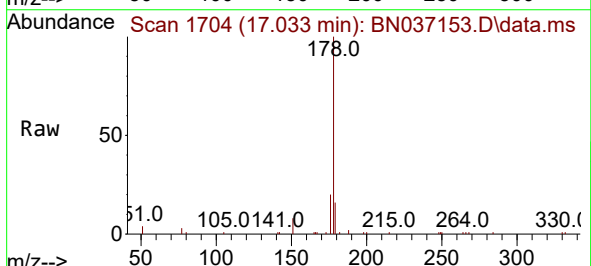
Tgt Ion:178 Resp: 9486

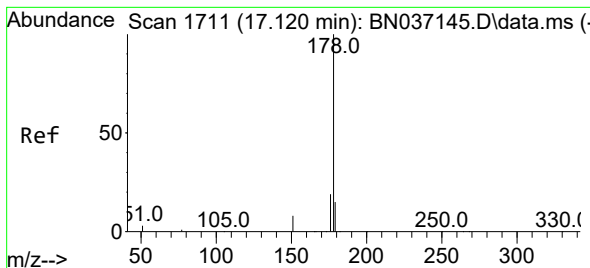
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.1 12.3 18.5





#26

Anthracene

Concen: 4.191 ng

RT: 17.120 min Scan# 1711

Delta R.T. -0.000 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

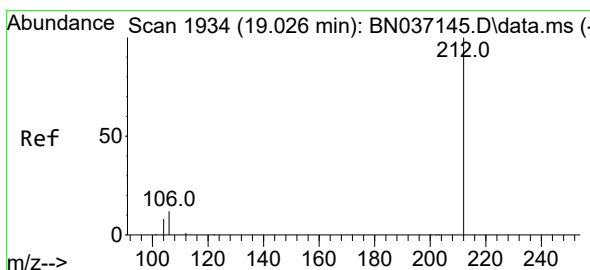
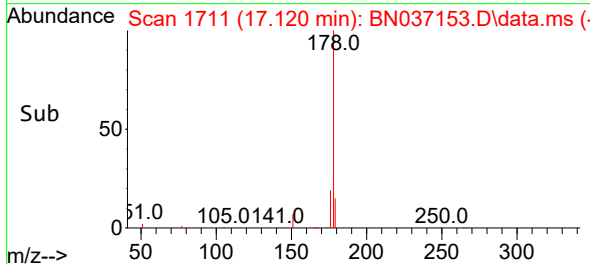
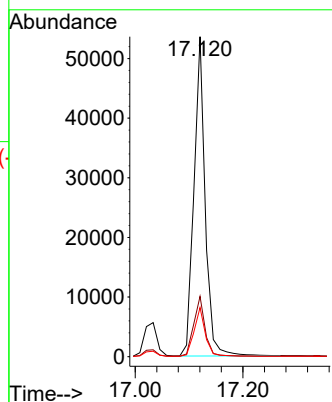
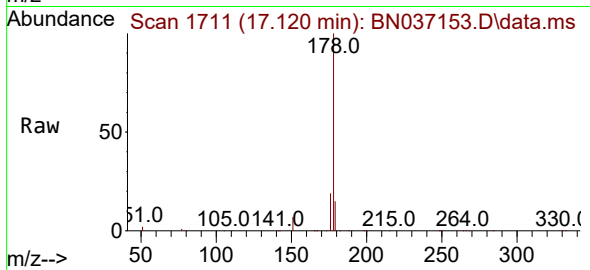
Tgt Ion:178 Resp: 77911

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.2 12.9 19.3



#27

Fluoranthene-d10

Concen: 0.009 ng

RT: 19.021 min Scan# 1933

Delta R.T. -0.005 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

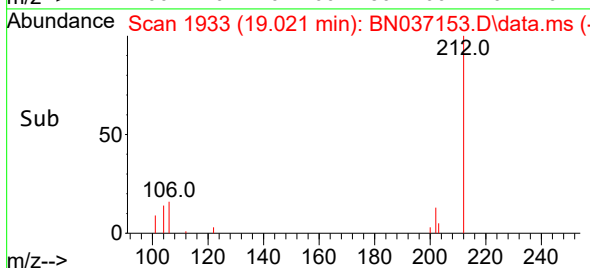
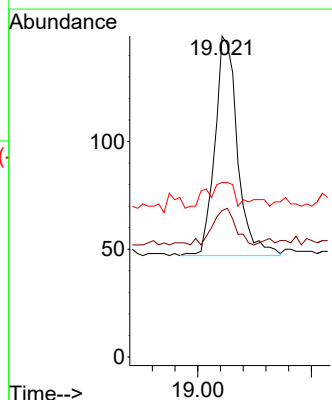
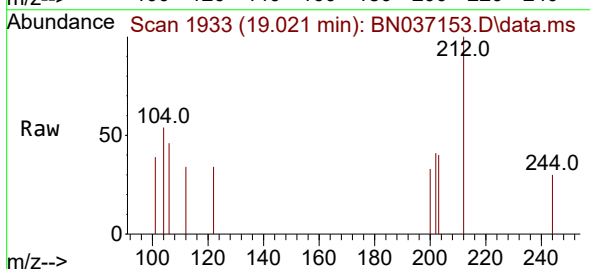
Tgt Ion:212 Resp: 141

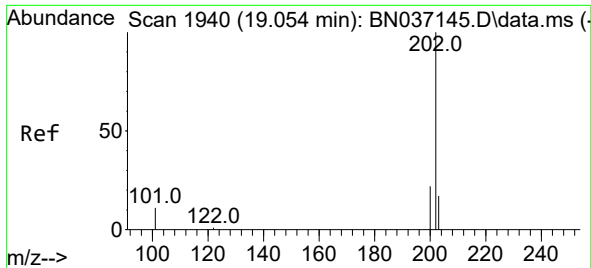
Ion Ratio Lower Upper

212 100

106 17.0 10.6 15.8#

104 14.2 6.6 9.8#

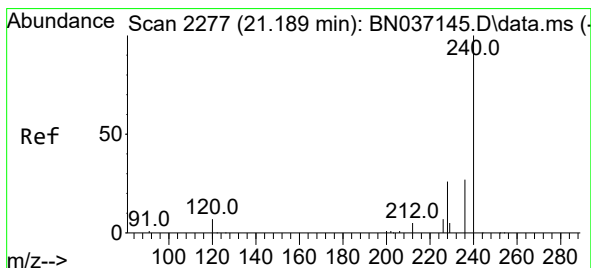
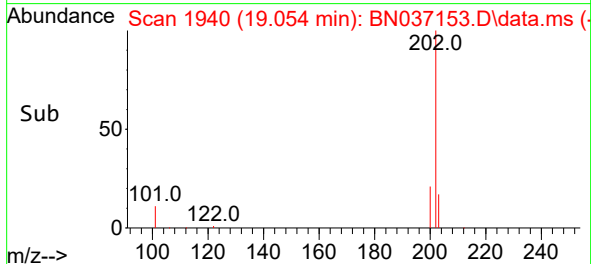
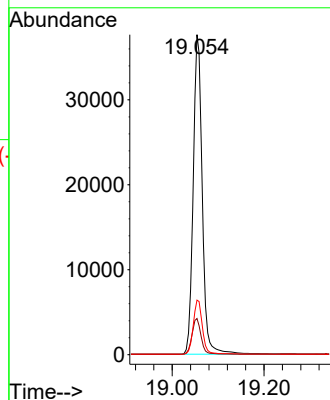
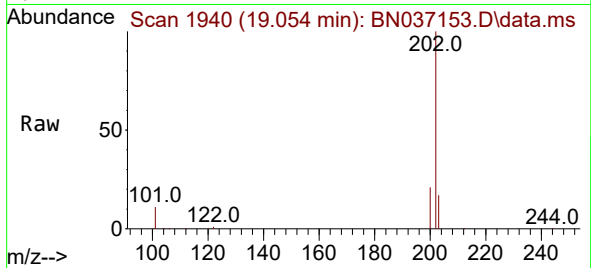




#28
Fluoranthene
Concen: 2.293 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

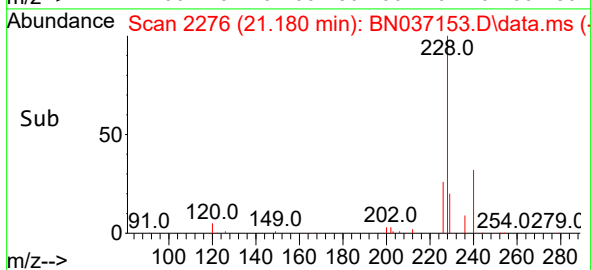
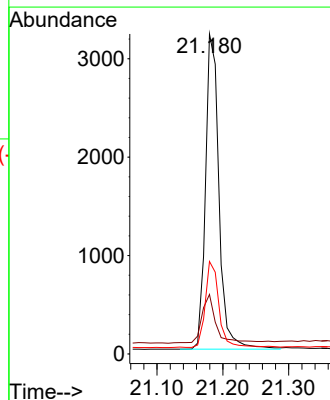
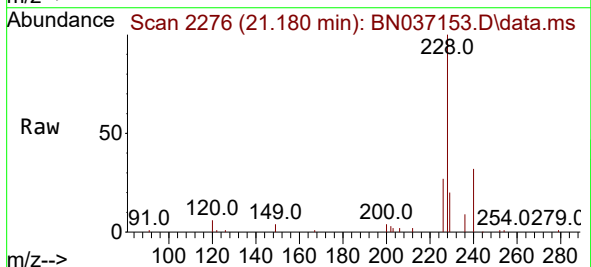
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

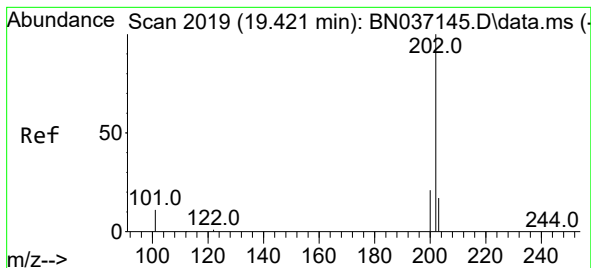
Tgt Ion:202 Resp: 51595
Ion Ratio Lower Upper
202 100
101 11.2 8.7 13.1
203 17.1 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.009 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:240 Resp: 4597
Ion Ratio Lower Upper
240 100
120 18.6 9.0 13.4#
236 28.9 23.0 34.4





#30

Pyrene

Concen: 1.665 ng

RT: 19.416 min Scan# 2019

Delta R.T. -0.005 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

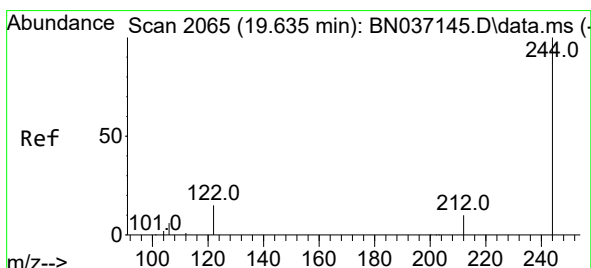
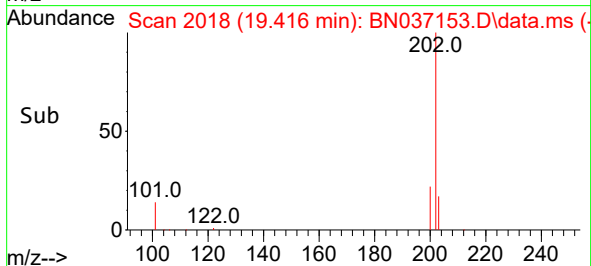
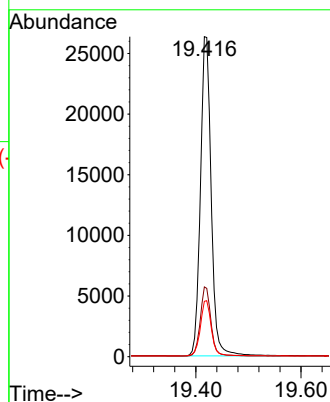
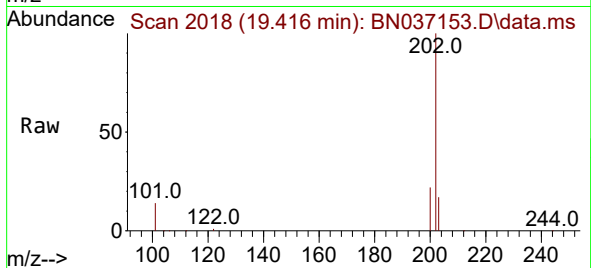
Tgt Ion:202 Resp: 37373

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.2 21.4



#31

Terphenyl-d14

Concen: 0.009 ng

RT: 19.644 min Scan# 2067

Delta R.T. 0.009 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

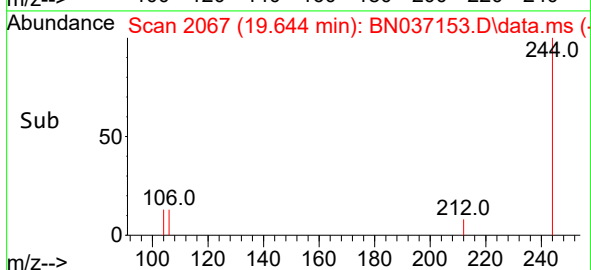
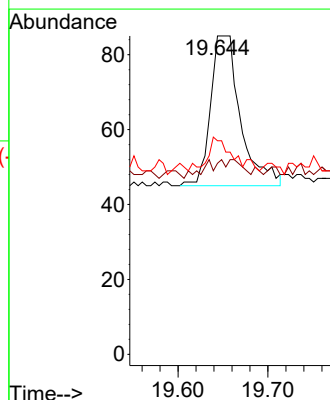
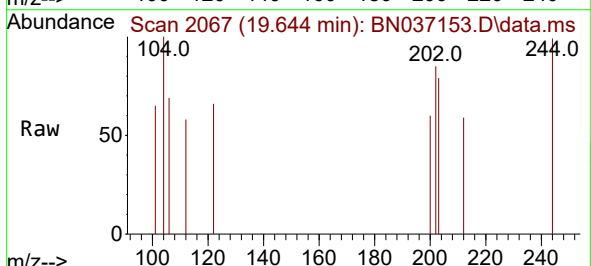
Tgt Ion:244 Resp: 93

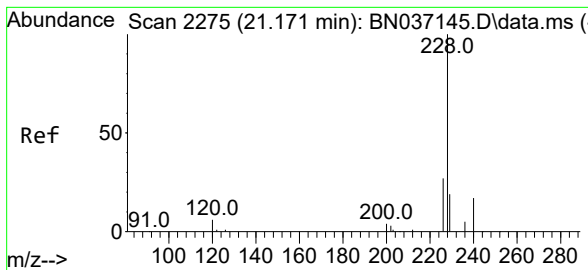
Ion Ratio Lower Upper

244 100

212 60.0 10.0 15.0#

122 67.1 13.2 19.8#

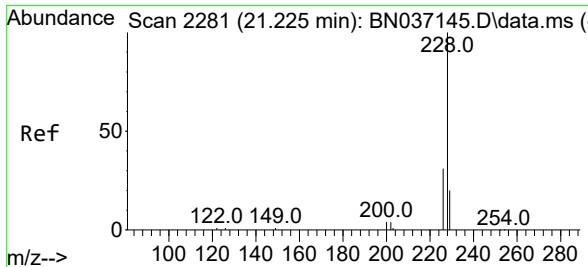
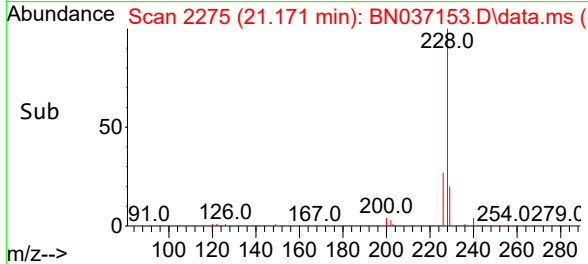
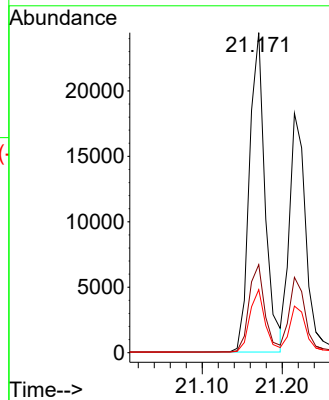
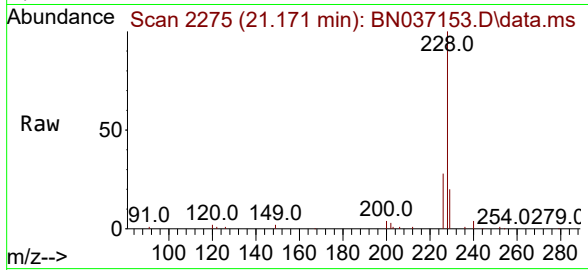




#32
Benzo(a)anthracene
Concen: 2.002 ng
RT: 21.171 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

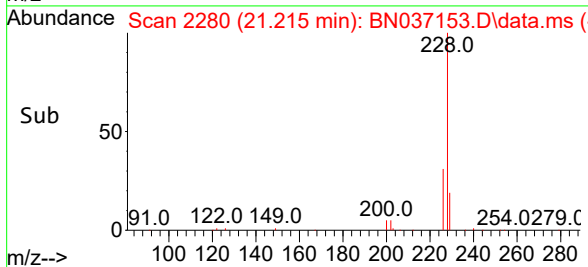
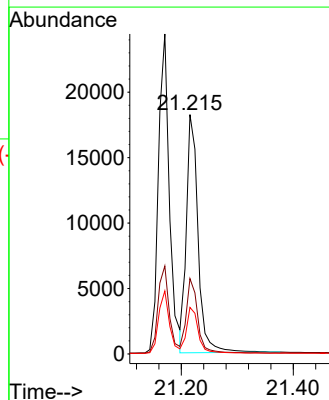
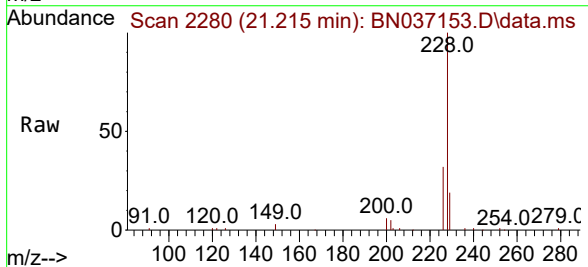
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

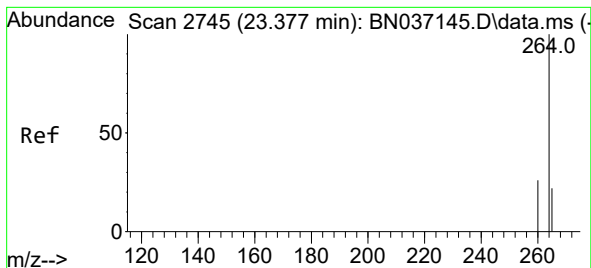
Tgt Ion:228 Resp: 33315
Ion Ratio Lower Upper
228 100
226 27.5 22.6 33.8
229 19.7 16.2 24.2



#33
Chrysene
Concen: 1.427 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.009 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:228 Resp: 26438
Ion Ratio Lower Upper
228 100
226 31.5 25.2 37.8
229 19.5 16.8 25.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037153.D

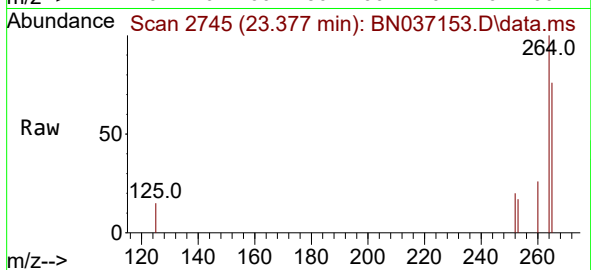
Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL



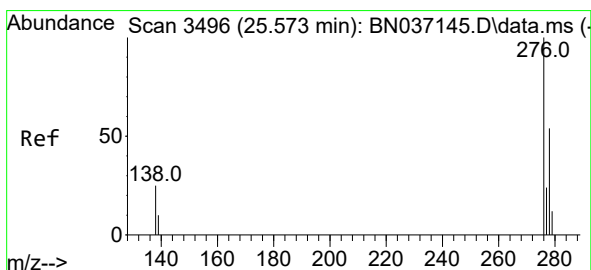
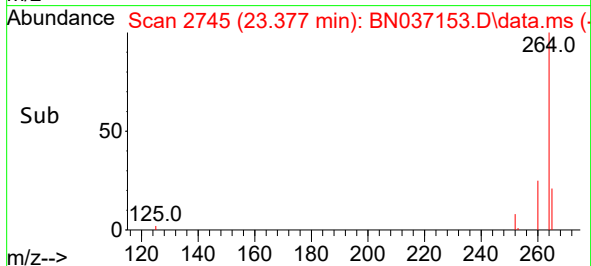
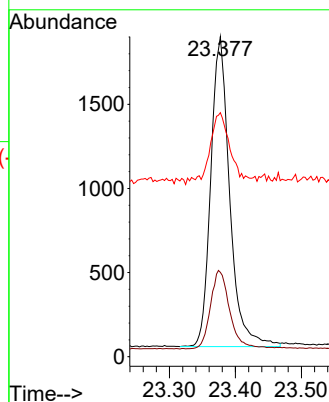
Tgt Ion:264 Resp: 3669

Ion Ratio Lower Upper

264 100

260 26.3 22.1 33.1

265 76.2 55.8 83.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.526 ng

RT: 25.567 min Scan# 3494

Delta R.T. -0.006 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

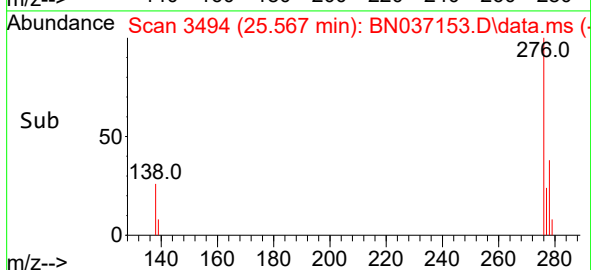
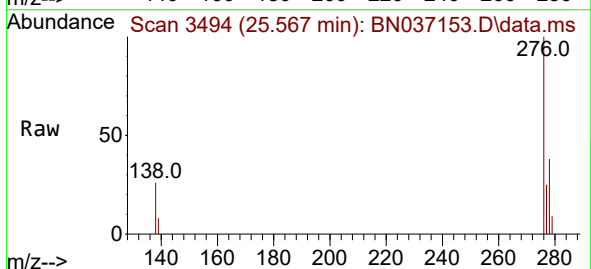
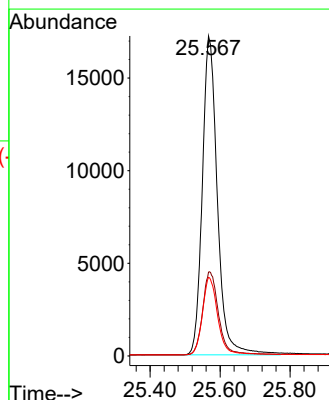
Tgt Ion:276 Resp: 51464

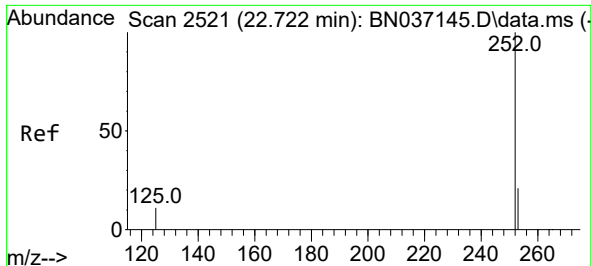
Ion Ratio Lower Upper

276 100

138 27.3 21.0 31.6

277 24.5 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 1.858 ng

RT: 22.719 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

Instrument :

BNA_N

ClientSampleId :

38072-062624DL

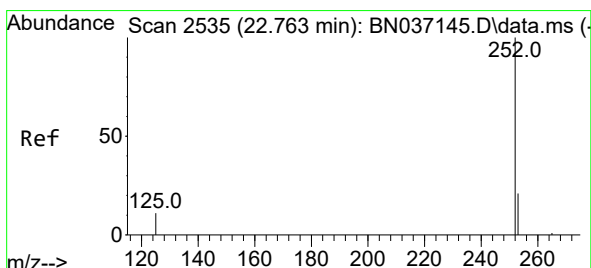
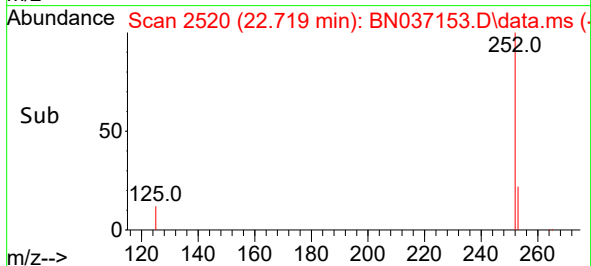
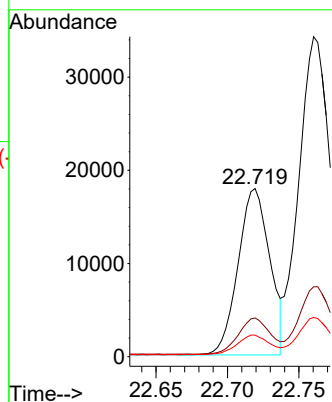
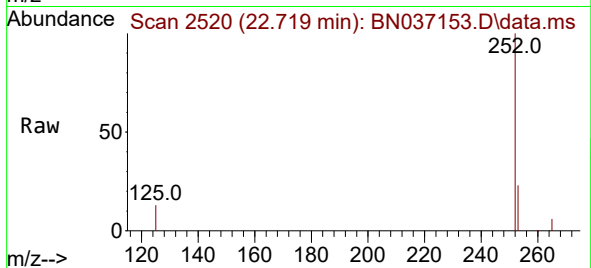
Tgt Ion:252 Resp: 27512

Ion Ratio Lower Upper

252 100

253 23.0 22.3 33.5

125 12.9 13.2 19.8#



#38

Benzo(k)fluoranthene

Concen: 3.738 ng

RT: 22.760 min Scan# 2534

Delta R.T. -0.003 min

Lab File: BN037153.D

Acq: 03 Jun 2025 18:18

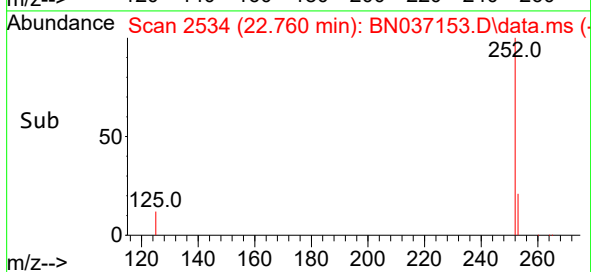
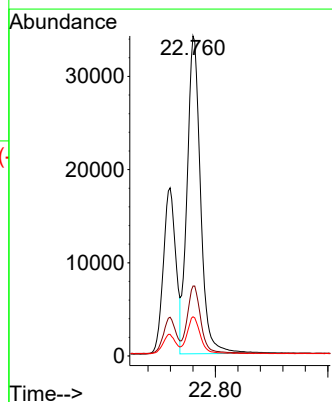
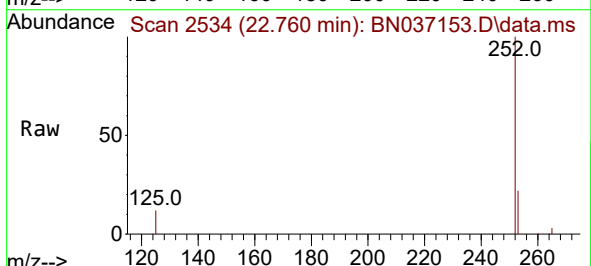
Tgt Ion:252 Resp: 56528

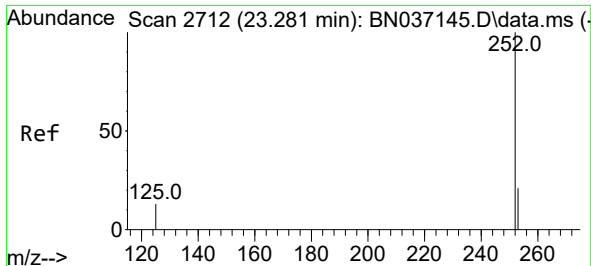
Ion Ratio Lower Upper

252 100

253 21.8 22.2 33.4#

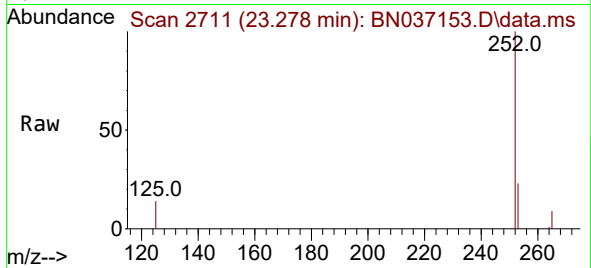
125 12.3 13.2 19.8#



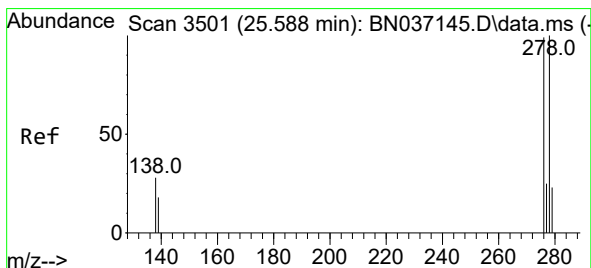
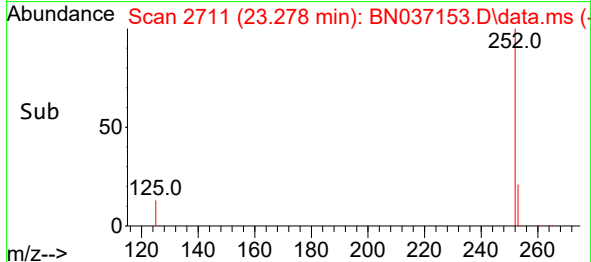
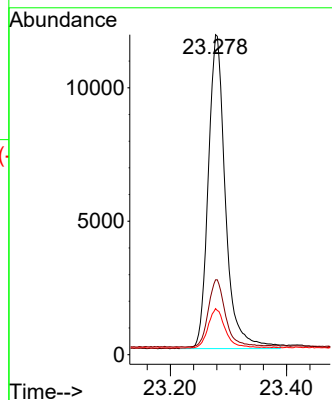


#39
Benzo(a)pyrene
Concen: 1.950 ng
RT: 23.278 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

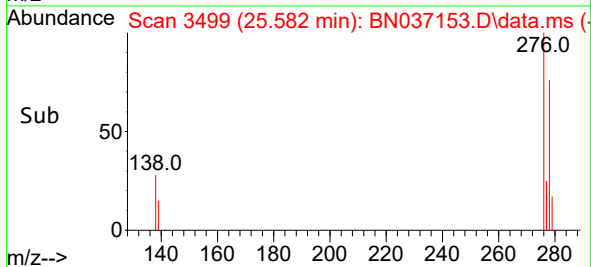
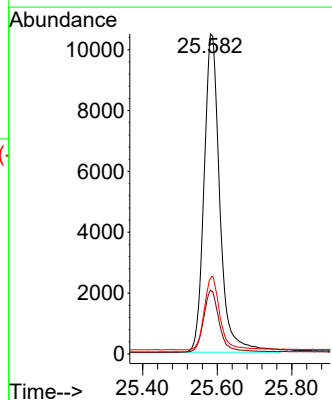
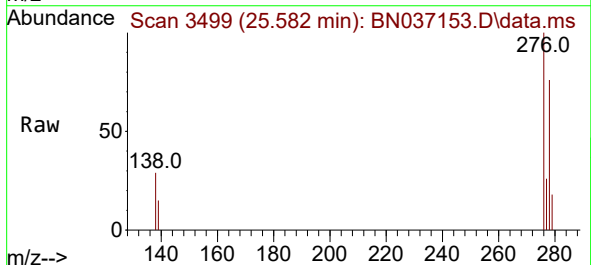


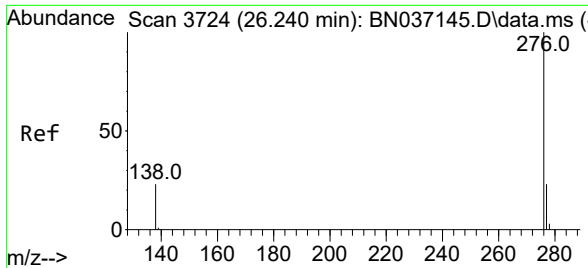
Tgt Ion:252 Resp: 24186
Ion Ratio Lower Upper
252 100
253 23.4 25.0 37.4#
125 14.4 17.0 25.6#



#40
Dibenzo(a,h)anthracene
Concen: 2.737 ng
RT: 25.582 min Scan# 3499
Delta R.T. -0.006 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

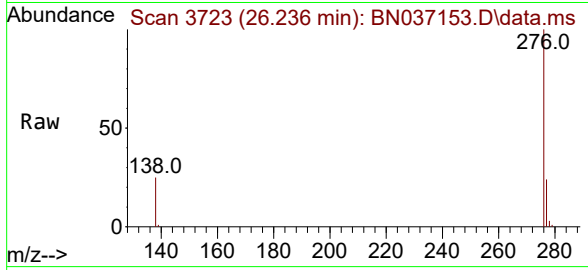
Tgt Ion:278 Resp: 30813
Ion Ratio Lower Upper
278 100
139 19.9 17.6 26.4
279 23.6 26.0 39.0#





#41
Benzo(g,h,i)perylene
Concen: 2.517 ng
RT: 26.236 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL



Tgt Ion:	276	Resp:	32541
Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.9	31.3
138	24.9	20.8	31.2

