

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028204.D
 Acq On : 10 Oct 2023 19:16
 Operator : MA/JU
 Sample : 04704-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-4(0-5)

Quant Time: Oct 11 02:33:38 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 10 00:42:22 2023
 Response via : Initial Calibration

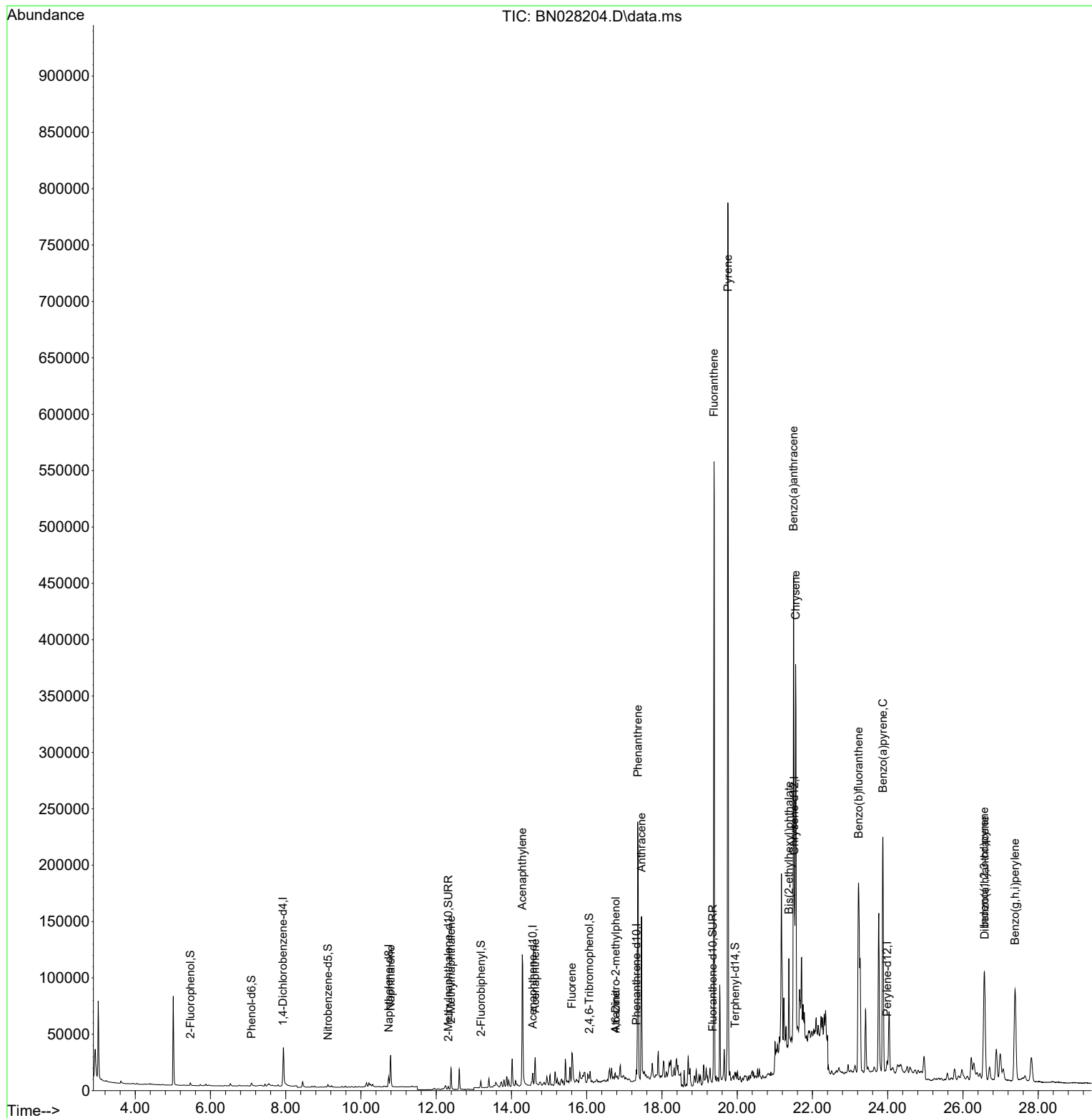
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.921	152	3927	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	12246	0.400	ng	0.00
13) Acenaphthene-d10	14.565	164	6508	0.400	ng	0.00
19) Phenanthrene-d10	17.318	188	12935	0.400	ng	0.00
29) Chrysene-d12	21.515	240	12622	0.400	ng	# 0.00
35) Perylene-d12	23.984	264	14739	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	2270	0.194	ng	0.00
5) Phenol-d6	7.091	99	3062	0.207	ng	0.00
8) Nitrobenzene-d5	9.123	82	2522	0.242	ng	0.00
11) 2-Methylnaphthalene-d10	12.320	152	3781	0.208	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	385	0.129	ng	-0.01
15) 2-Fluorobiphenyl	13.186	172	5307	0.226	ng	0.00
27) Fluoranthene-d10	19.351	212	6291	0.194	ng	0.00
31) Terphenyl-d14	19.941	244	5958	0.202	ng	0.00
Target Compounds						
9) Naphthalene	10.788	128	37400	1.182	ng	99
12) 2-Methylnaphthalene	12.392	142	13861	0.626	ng	97
16) Acenaphthylene	14.287	152	160910	5.581	ng	100
17) Acenaphthene	14.630	154	14876	0.809	ng	98
18) Fluorene	15.606	166	28490	1.194	ng	89
20) 4,6-Dinitro-2-methylph...	16.772	198	353	2.053	ng	# 68
23) Atrazine	16.772	200	118	0.020	ng	# 1
25) Phenanthrene	17.356	178	263728	7.563	ng	99
26) Anthracene	17.455	178	147868	4.486	ng	96
28) Fluoranthene	19.383	202	499519	12.412	ng	99
30) Pyrene	19.755	202	687387	14.852	ng	98
32) Benzo(a)anthracene	21.497	228	354886	8.263	ng	98
33) Chrysene	21.551	228	310313	7.497	ng	96
34) Bis(2-ethylhexyl)phtha...	21.372	149	62963	2.229	ng	100
36) Indeno(1,2,3-cd)pyrene	26.568	276	172371	3.477	ng	97
37) Benzo(b)fluoranthene	23.224	252	341211	7.168	ng	92
39) Benzo(a)pyrene	23.873	252	307852	6.839	ng	# 86
40) Dibenzo(a,h)anthracene	26.580	278	54640	1.347	ng	# 87
41) Benzo(g,h,i)perylene	27.384	276	186866	4.489	ng	97

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

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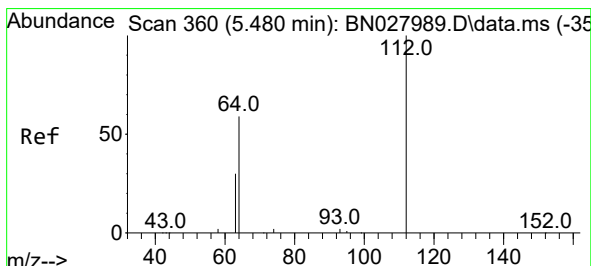
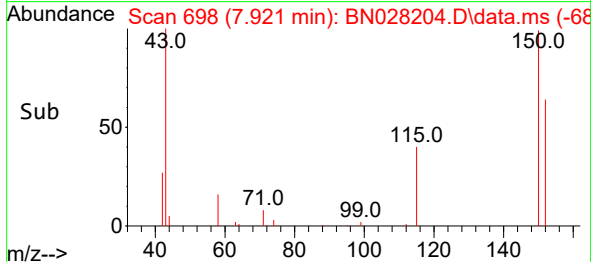
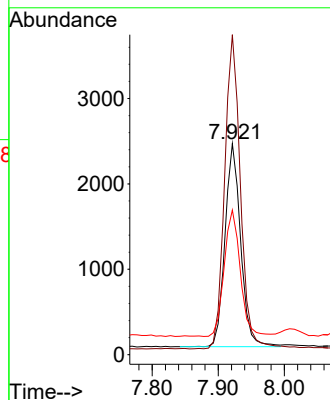
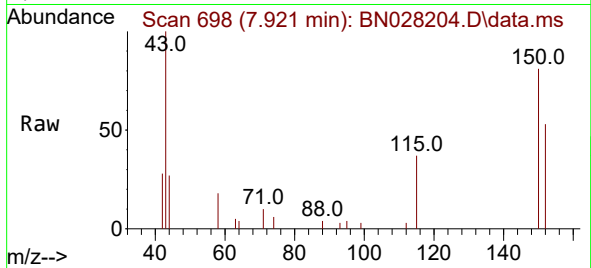




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.921 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

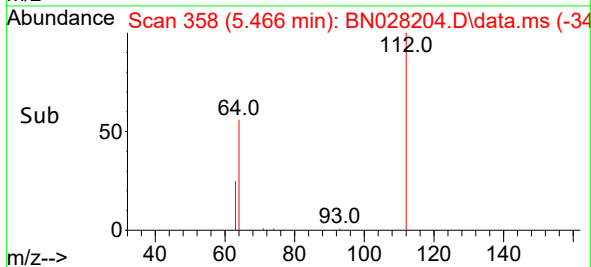
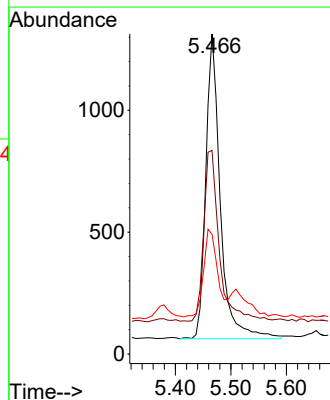
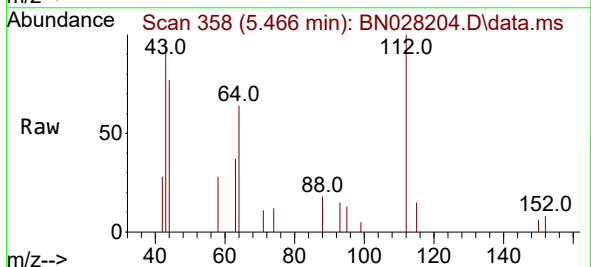
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

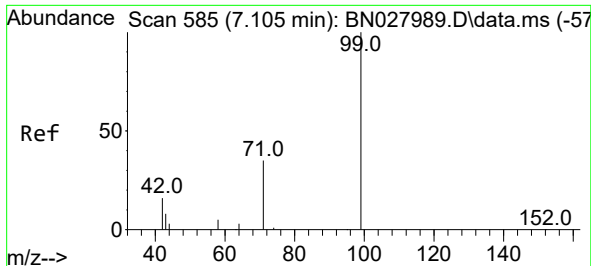
Tgt Ion:152 Resp: 3927
Ion Ratio Lower Upper
152 100
150 151.6 125.6 188.4
115 68.5 54.8 82.2



#4
2-Fluorophenol
Concen: 0.194 ng
RT: 5.466 min Scan# 358
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:112 Resp: 2270
Ion Ratio Lower Upper
112 100
64 59.8 45.0 67.6
63 27.0 23.4 35.0

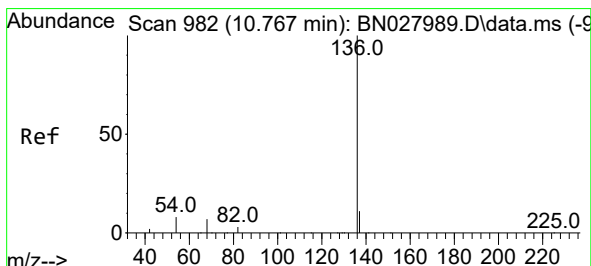
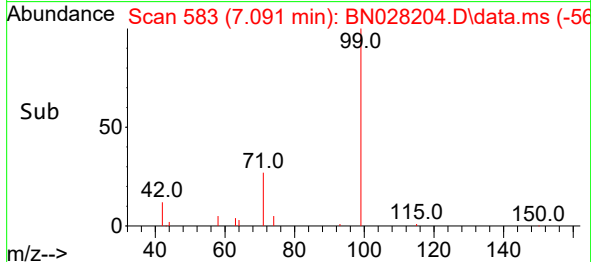
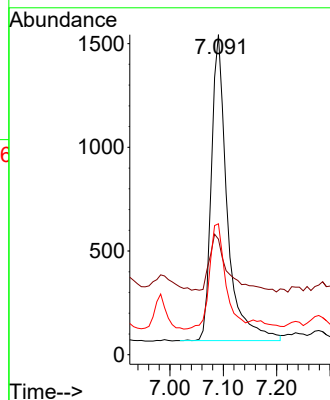
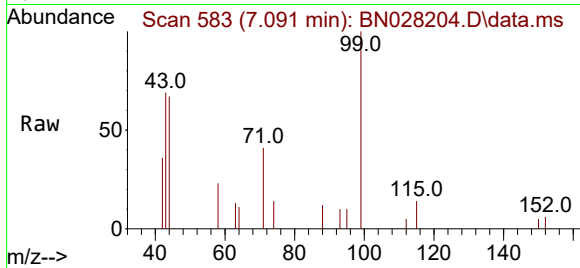




#5
Phenol-d6
Concen: 0.207 ng
RT: 7.091 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

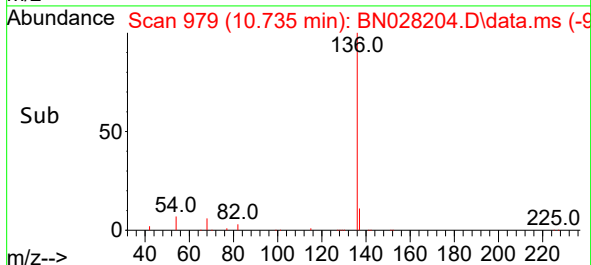
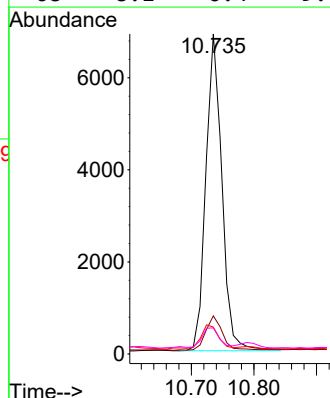
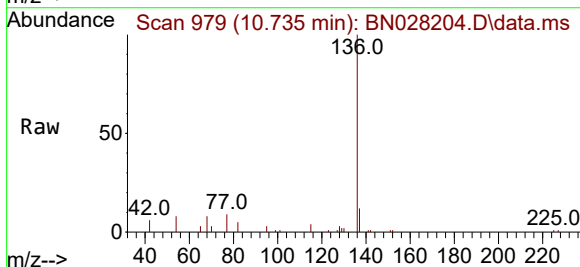
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

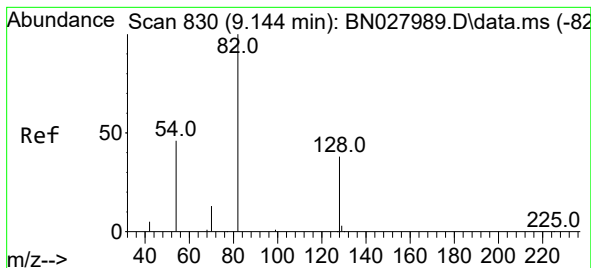
Tgt Ion:	99	Resp:	3062
Ion	Ratio	Lower	Upper
99	100		
42	21.5	14.6	22.0
71	34.9	28.3	42.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:	136	Resp:	12246
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.4	14.0
54	8.4	7.0	10.6
68	8.1	6.4	9.6





#8

Nitrobenzene-d5

Concen: 0.242 ng

RT: 9.123 min Scan# 81

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BNA_N

ClientSampleId :

S-4(0-5)

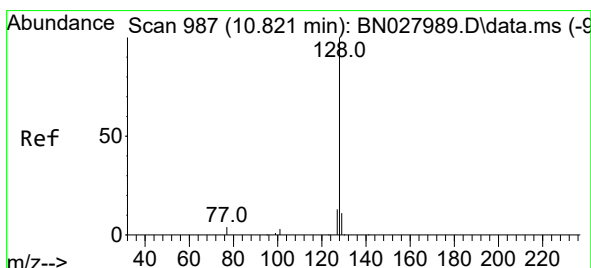
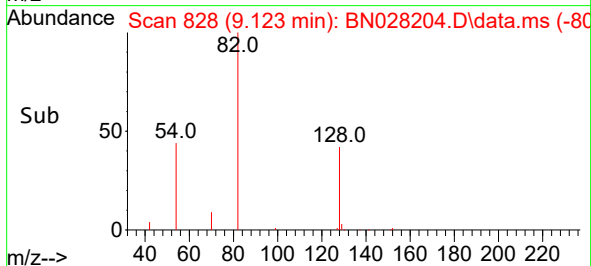
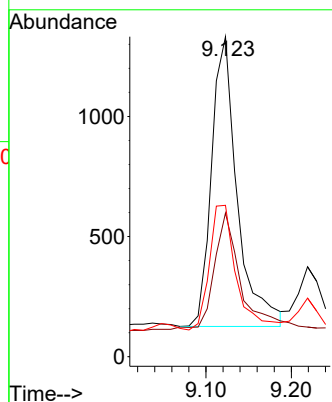
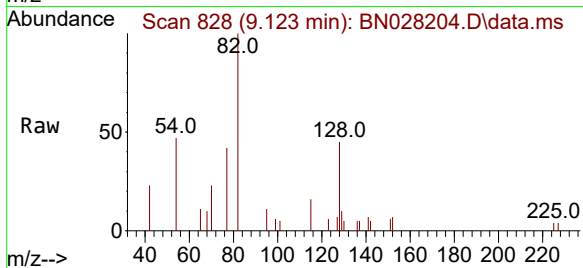
Tgt Ion: 82 Resp: 2522

Ion Ratio Lower Upper

82 100

128 44.9 32.7 49.1

54 47.3 38.7 58.1



#9

Naphthalene

Concen: 1.182 ng

RT: 10.788 min Scan# 984

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

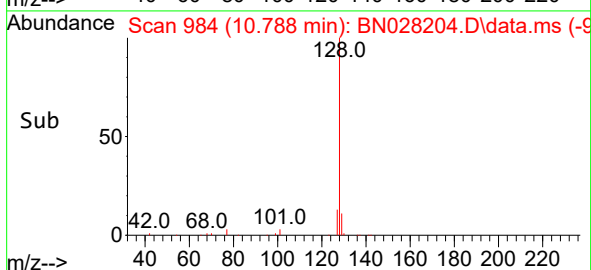
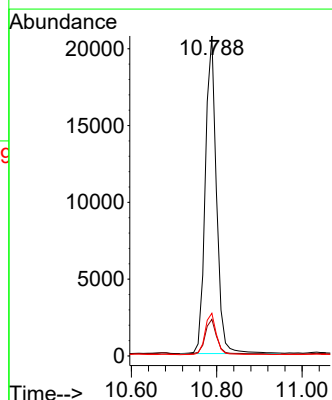
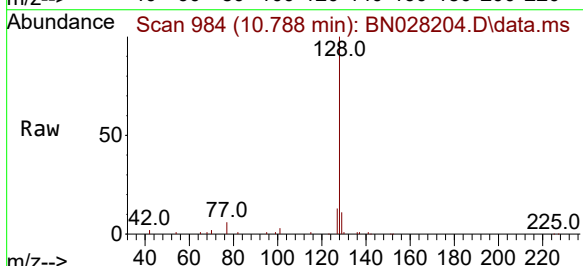
Tgt Ion: 128 Resp: 37400

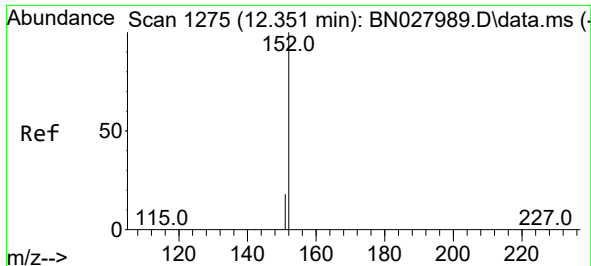
Ion Ratio Lower Upper

128 100

129 11.5 9.4 14.2

127 13.4 10.9 16.3

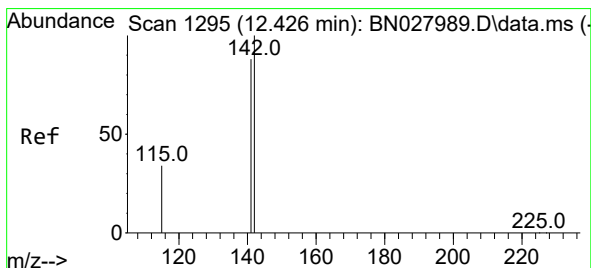
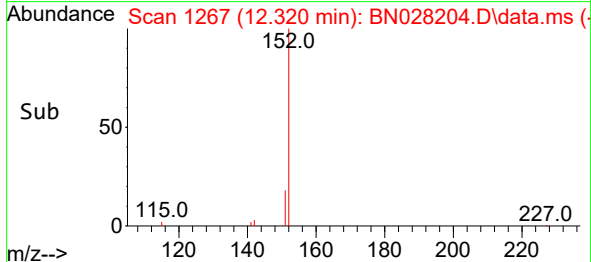
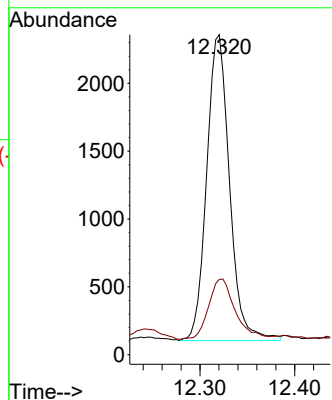
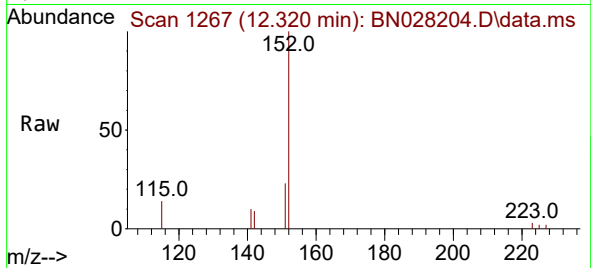




#11
2-Methylnaphthalene-d10
Concen: 0.208 ng
RT: 12.320 min Scan# 1267
Delta R.T. -0.004 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

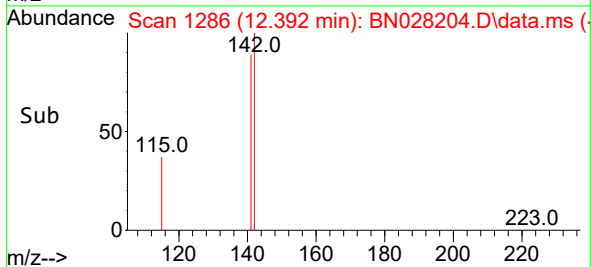
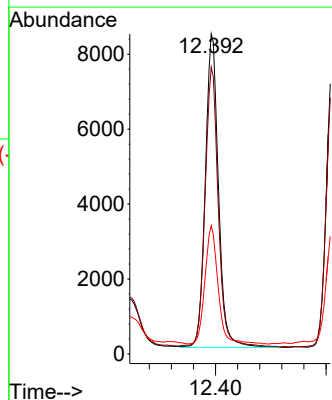
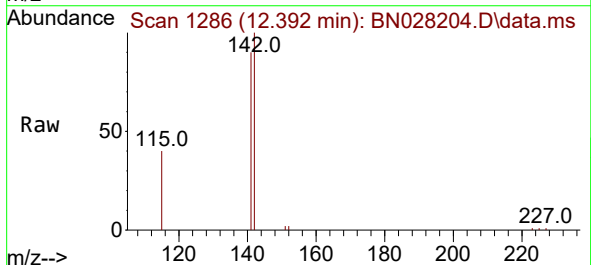
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

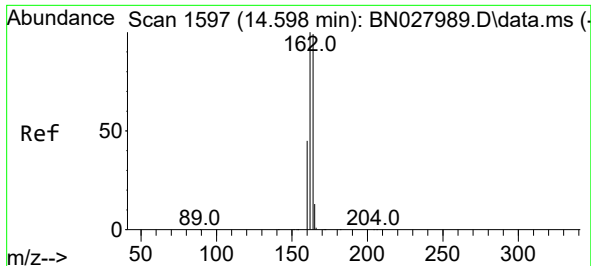
Tgt Ion:152 Resp: 3781
Ion Ratio Lower Upper
152 100
151 23.0 16.5 24.7



#12
2-Methylnaphthalene
Concen: 0.626 ng
RT: 12.392 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:142 Resp: 13861
Ion Ratio Lower Upper
142 100
141 89.6 70.7 106.1
115 40.1 28.6 42.8

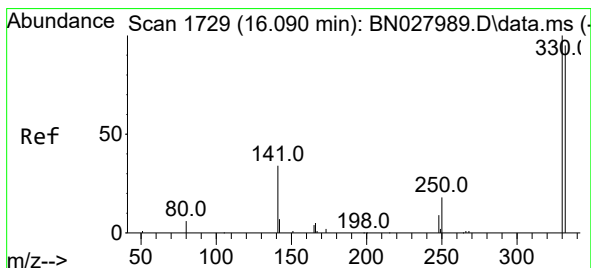
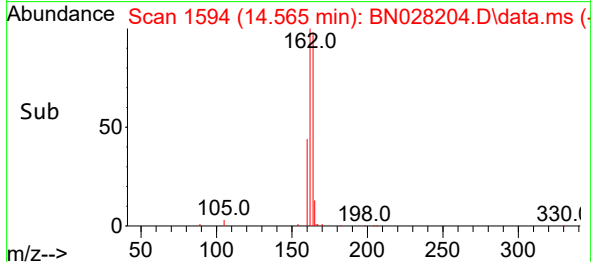
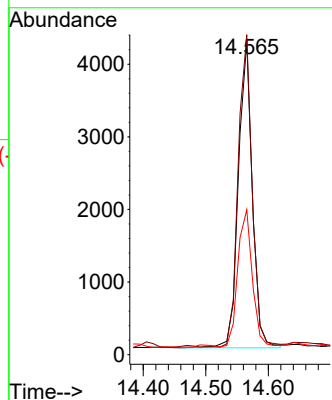
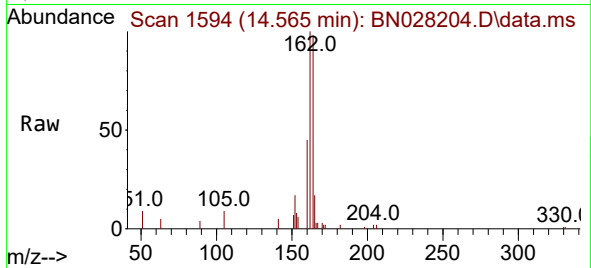




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.565 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

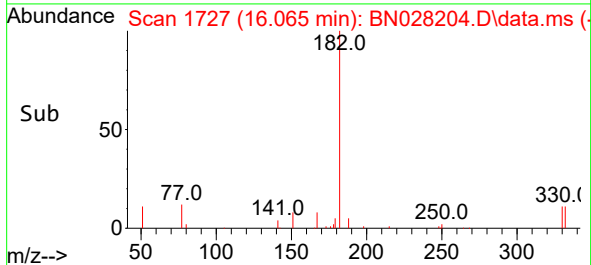
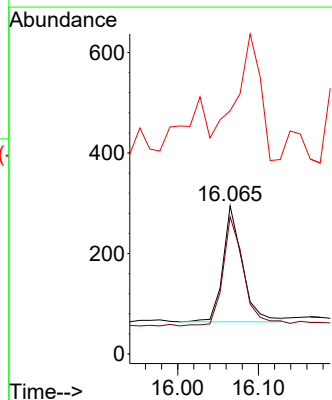
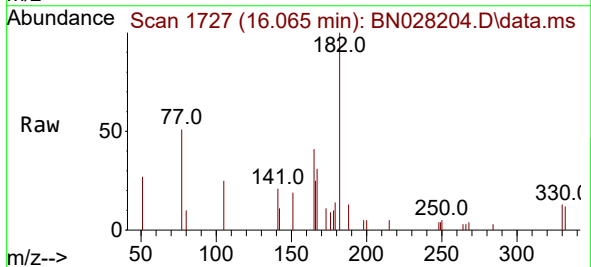
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BNA_N
ClientSampleId :
S-4(0-5)

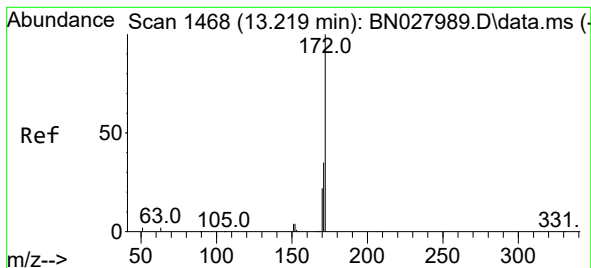
Tgt Ion:164 Resp: 6508
Ion Ratio Lower Upper
164 100
162 102.2 80.8 121.2
160 46.3 36.4 54.6



#14
2,4,6-Tribromophenol
Concen: 0.129 ng
RT: 16.065 min Scan# 1727
Delta R.T. -0.013 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:330 Resp: 385
Ion Ratio Lower Upper
330 100
332 102.1 78.1 117.1
141 0.0 33.4 50.2#





#15

2-Fluorobiphenyl

Concen: 0.226 ng

RT: 13.186 min Scan# 1465

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BNA_N

ClientSampleId :

S-4(0-5)

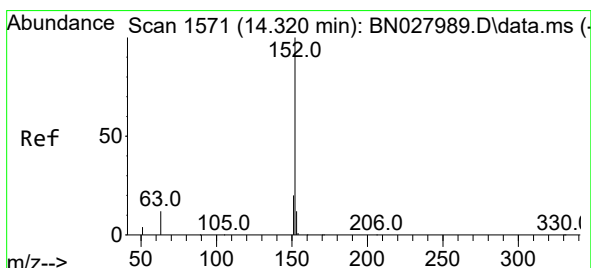
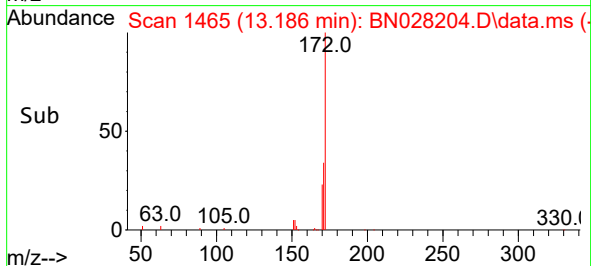
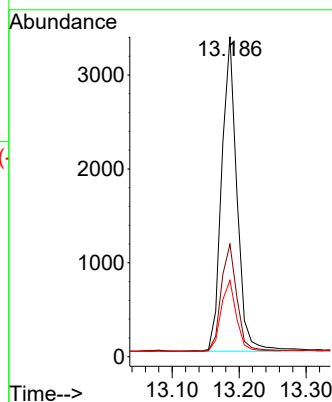
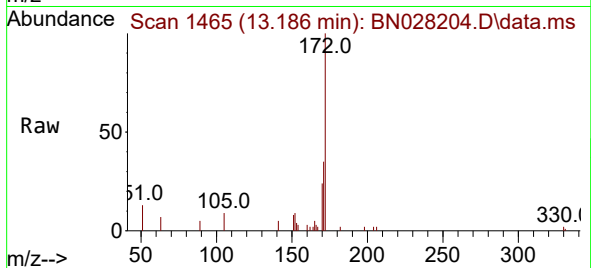
Tgt Ion:172 Resp: 5307

Ion Ratio Lower Upper

172 100

171 35.2 28.1 42.1

170 23.8 18.4 27.6



#16

Acenaphthylene

Concen: 5.581 ng

RT: 14.287 min Scan# 1568

Delta R.T. -0.011 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

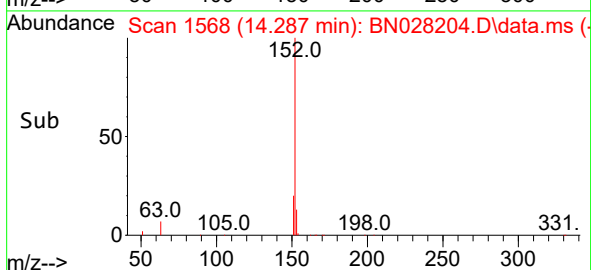
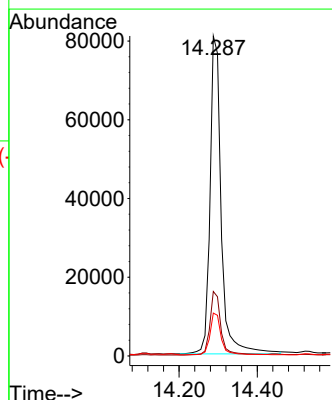
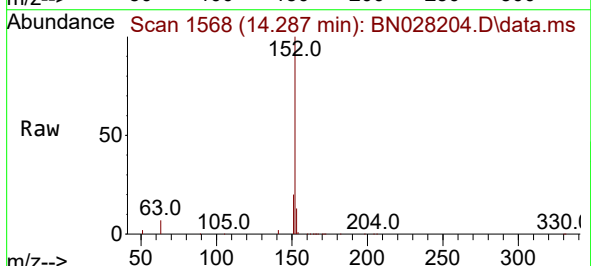
Tgt Ion:152 Resp: 160910

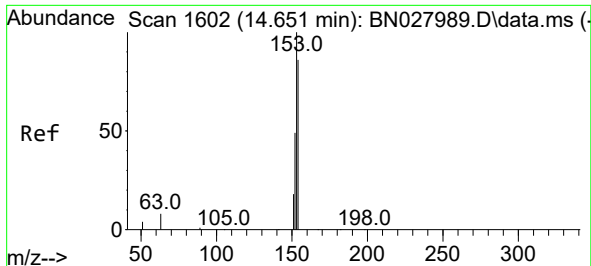
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 13.1 10.2 15.4

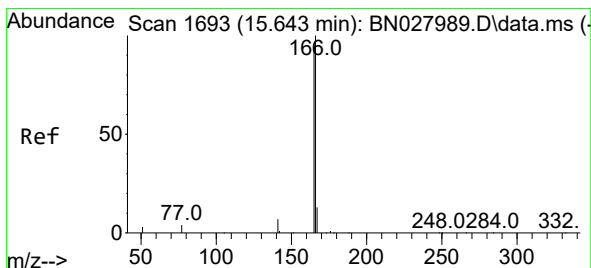
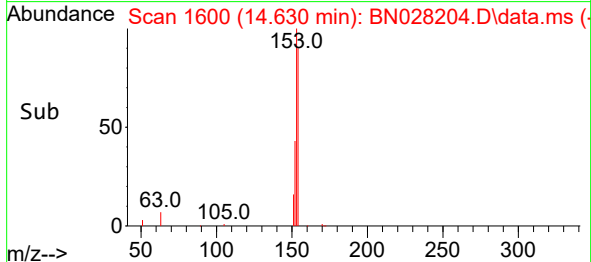
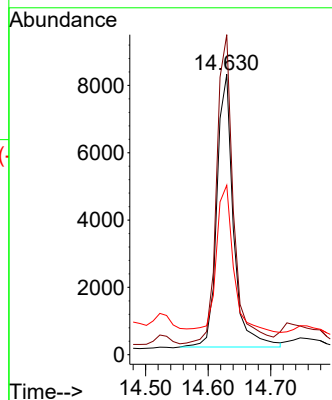
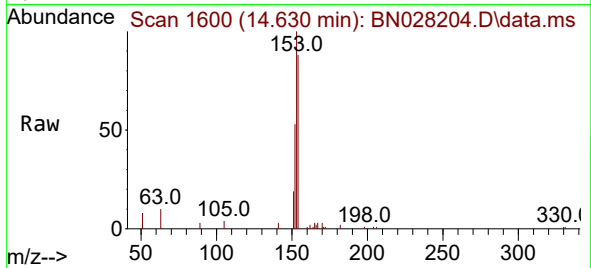




#17
Acenaphthene
Concen: 0.809 ng
RT: 14.630 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

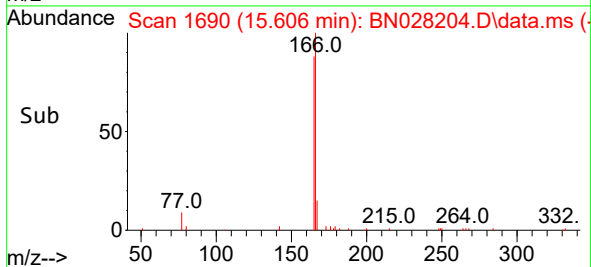
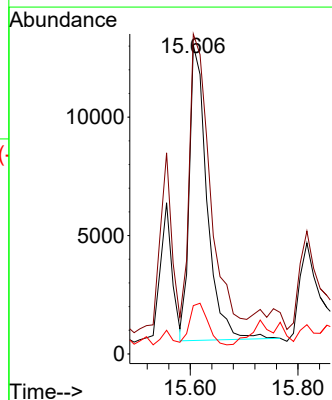
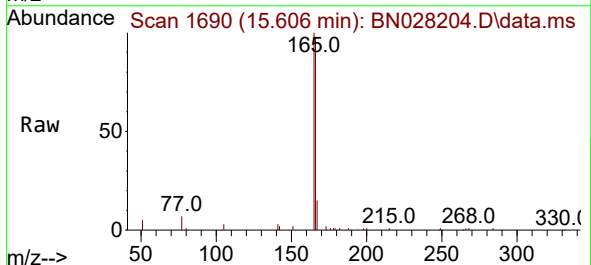
Instrument :
BNA_N
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S-4(0-5)

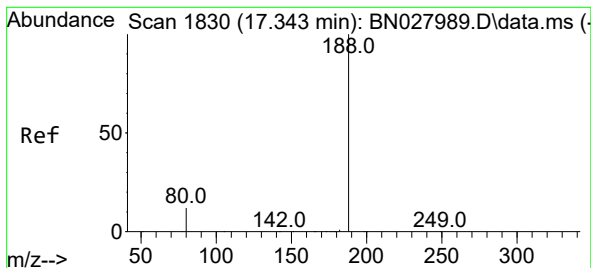
Tgt Ion:154 Resp: 14876
Ion Ratio Lower Upper
154 100
153 115.6 90.8 136.2
152 56.1 43.9 65.9



#18
Fluorene
Concen: 1.194 ng
RT: 15.606 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:166 Resp: 28490
Ion Ratio Lower Upper
166 100
165 109.7 77.8 116.8
167 14.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.318 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BNA_N

ClientSampleId :

S-4(0-5)

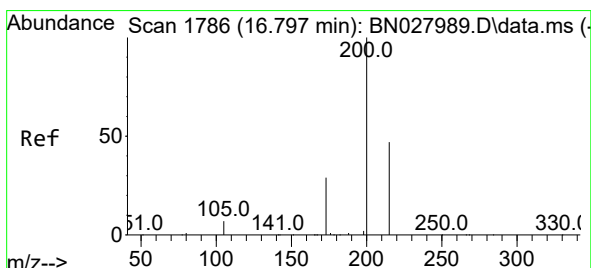
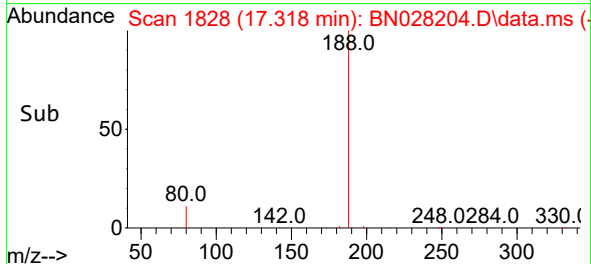
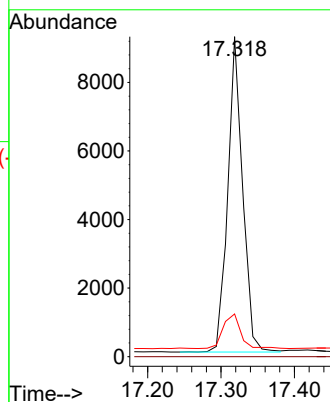
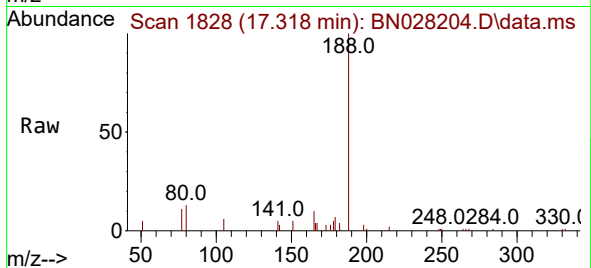
Tgt Ion:188 Resp: 12935

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.2 15.4



#20

4,6-Dinitro-2-methylphenol

Concen: 2.053 ng

RT: 16.772 min Scan# 1784

Delta R.T. -0.013 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

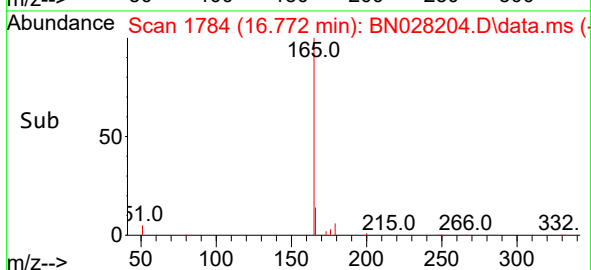
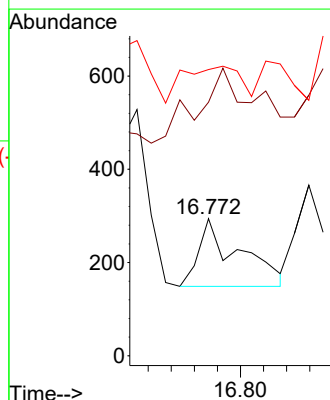
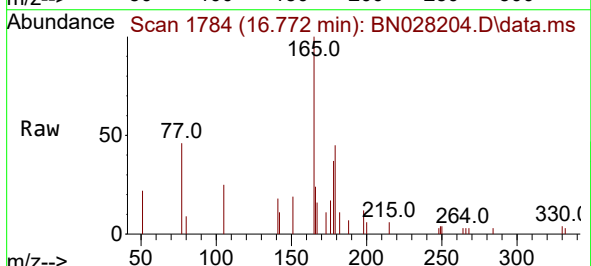
Tgt Ion:198 Resp: 353

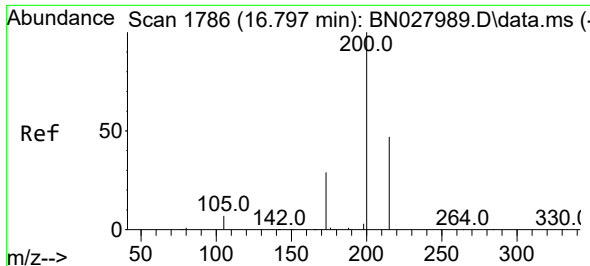
Ion Ratio Lower Upper

198 100

51 185.0 180.7 271.1

105 208.8 222.2 333.2#

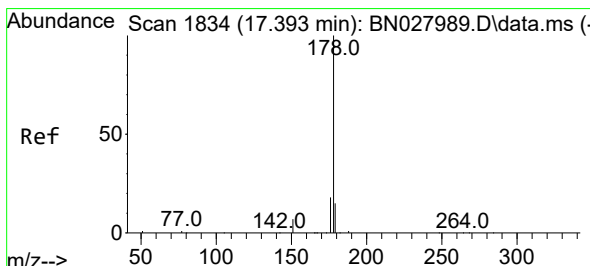
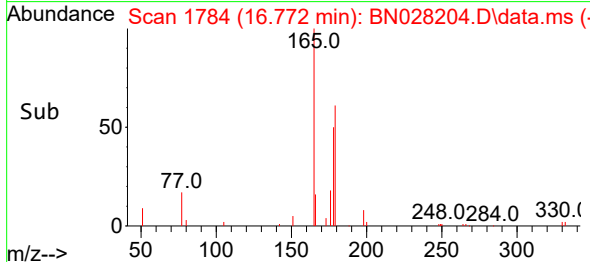
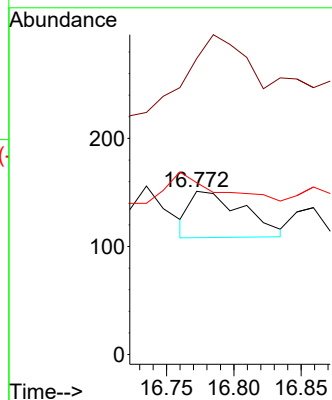
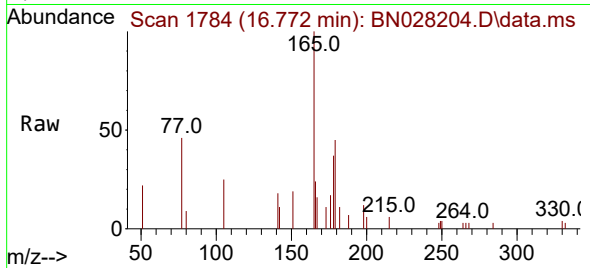




#23
Atrazine
Concen: 0.020 ng
RT: 16.772 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

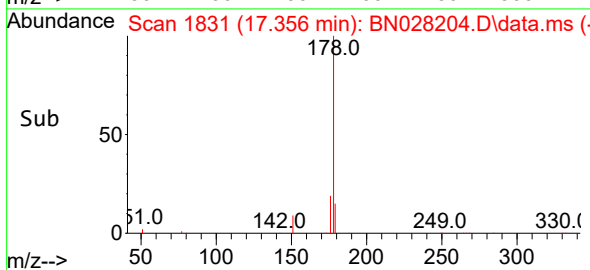
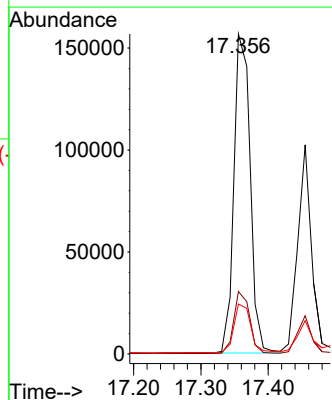
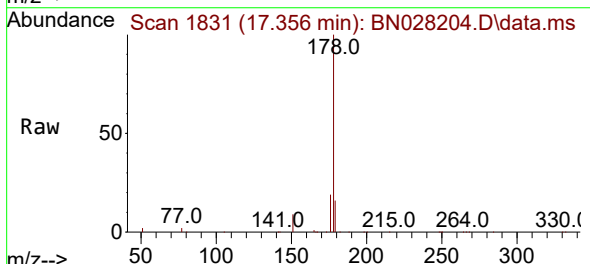
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

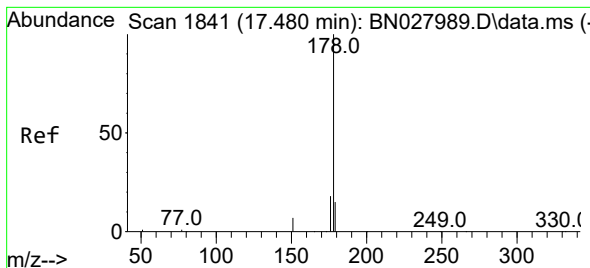
Tgt Ion:200 Resp: 118
Ion Ratio Lower Upper
200 100
173 181.5 24.7 37.1#
215 105.3 39.0 58.6#



#25
Phenanthrene
Concen: 7.563 ng
RT: 17.356 min Scan# 1831
Delta R.T. -0.013 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:178 Resp: 263728
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.7 12.4 18.6





#26

Anthracene

Concen: 4.486 ng

RT: 17.455 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BNA_N

ClientSampleId :

S-4(0-5)

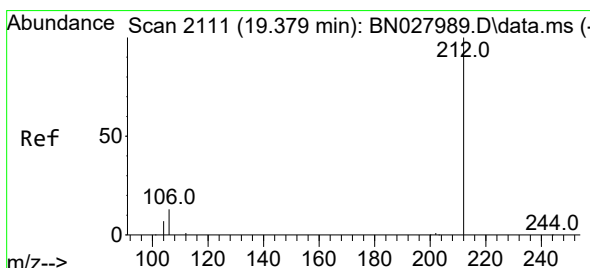
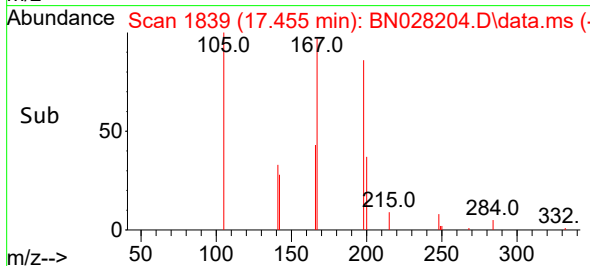
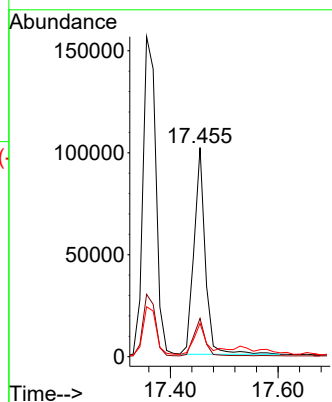
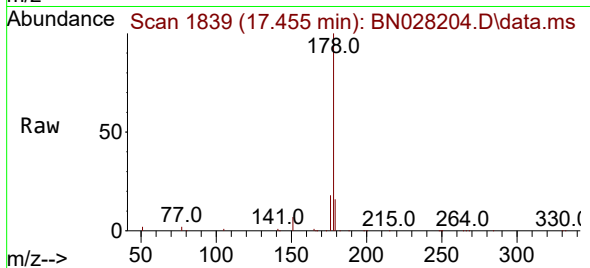
Tgt Ion:178 Resp: 147868

Ion Ratio Lower Upper

178 100

176 18.0 14.7 22.1

179 18.1 12.2 18.2



#27

Fluoranthene-d10

Concen: 0.194 ng

RT: 19.351 min Scan# 2105

Delta R.T. -0.005 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

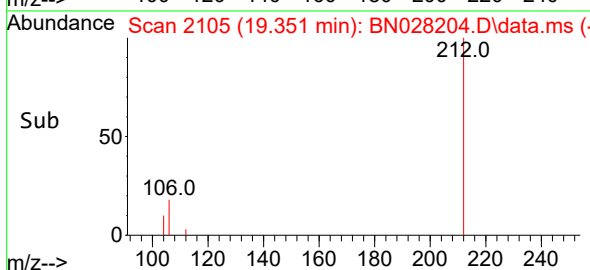
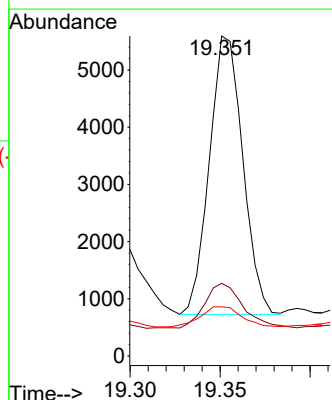
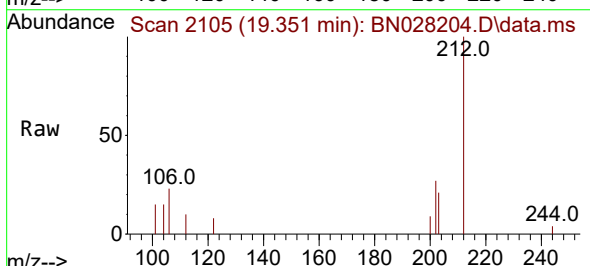
Tgt Ion:212 Resp: 6291

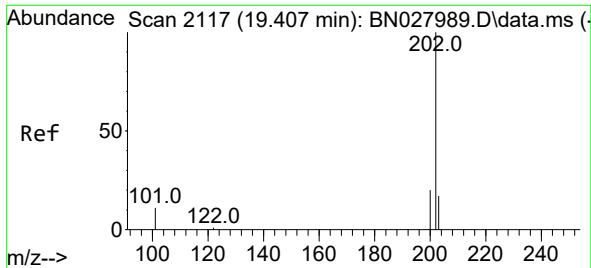
Ion Ratio Lower Upper

212 100

106 18.1 11.3 16.9#

104 9.6 6.4 9.6

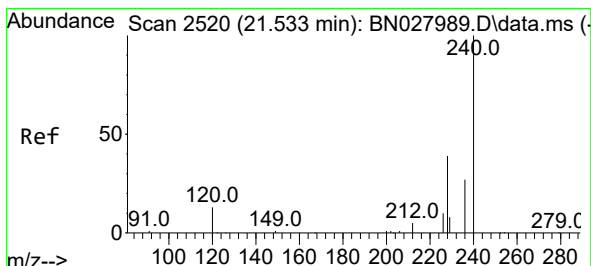
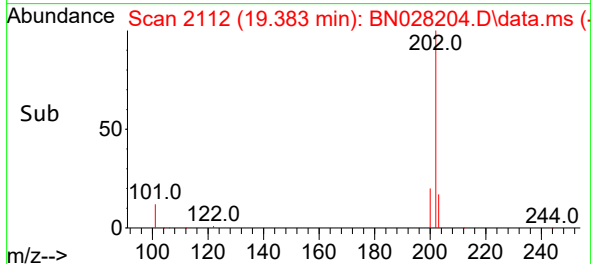
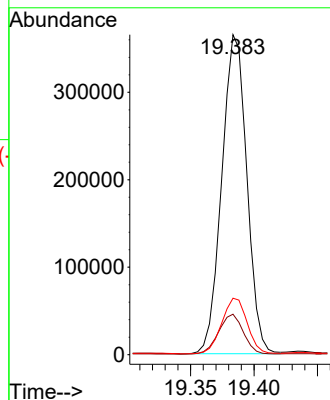
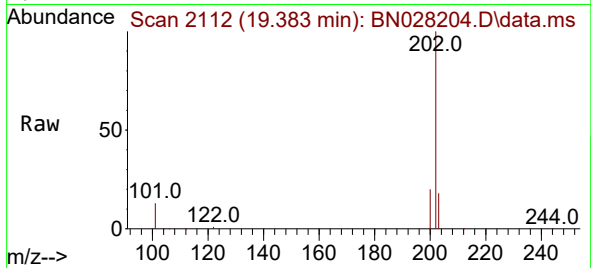




#28
Fluoranthene
Concen: 12.412 ng
RT: 19.383 min Scan# 2112
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

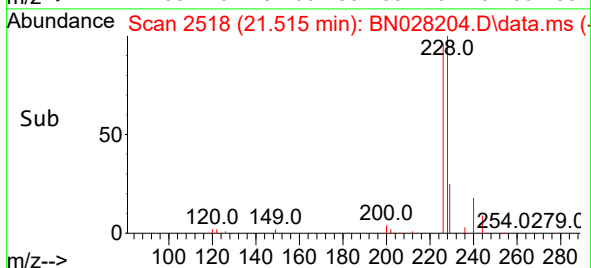
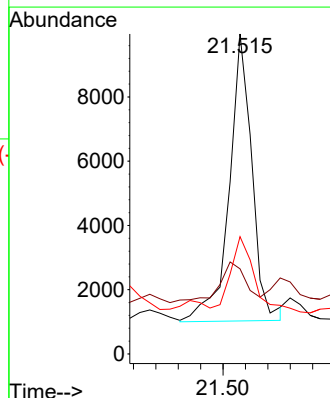
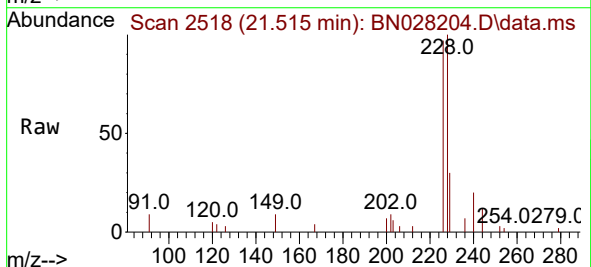
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

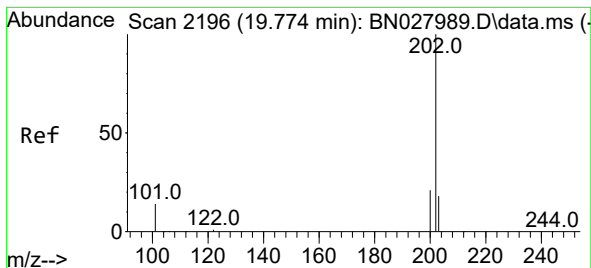
Tgt Ion:202 Resp: 499519
Ion Ratio Lower Upper
202 100
101 12.4 9.8 14.6
203 17.7 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.515 min Scan# 2518
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:240 Resp: 12622
Ion Ratio Lower Upper
240 100
120 26.6 13.8 20.6#
236 36.6 22.6 33.8#





#30

Pyrene

Concen: 14.852 ng

RT: 19.755 min Scan# 2192

Delta R.T. 0.004 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BNA_N

ClientSampleId :

S-4(0-5)

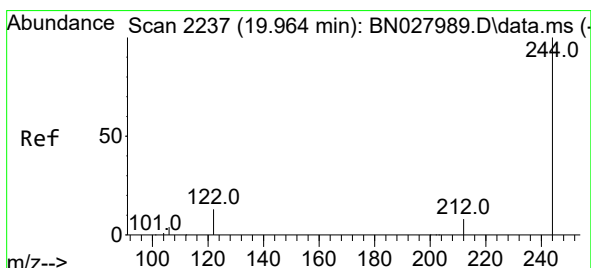
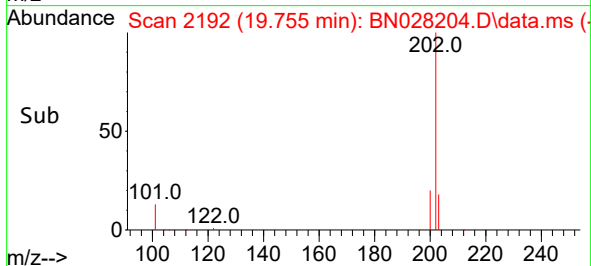
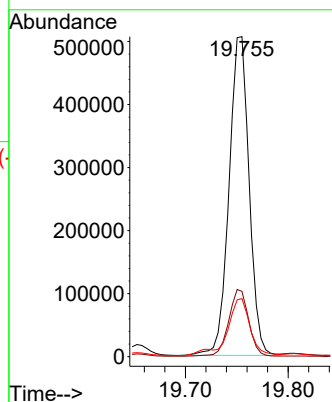
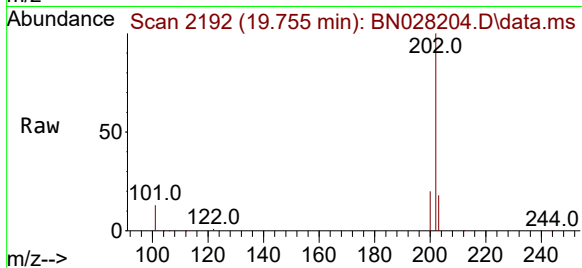
Tgt Ion:202 Resp: 687387

Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

203 20.2 14.7 22.1



#31

Terphenyl-d14

Concen: 0.202 ng

RT: 19.941 min Scan# 2232

Delta R.T. -0.000 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

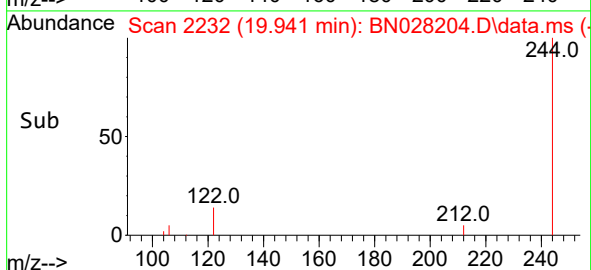
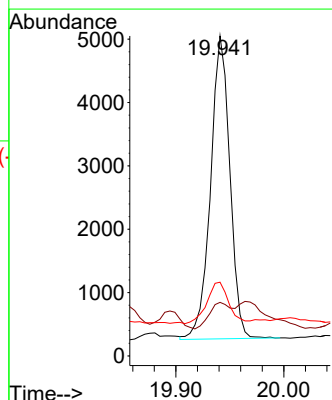
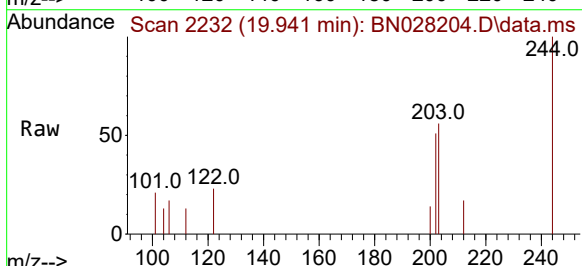
Tgt Ion:244 Resp: 5958

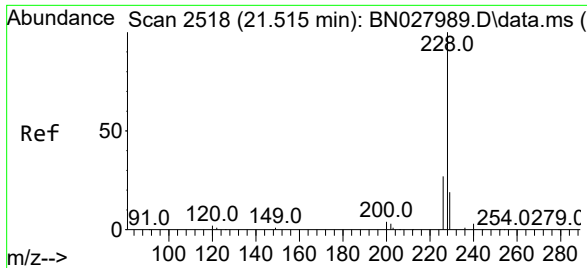
Ion Ratio Lower Upper

244 100

212 16.8 6.6 9.8#

122 23.0 11.4 17.0#

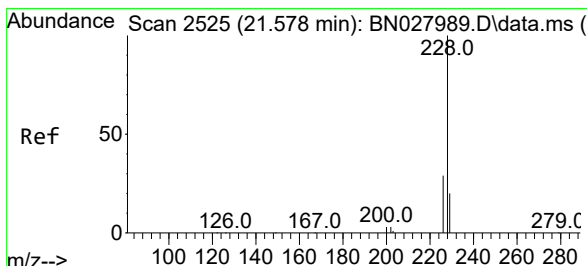
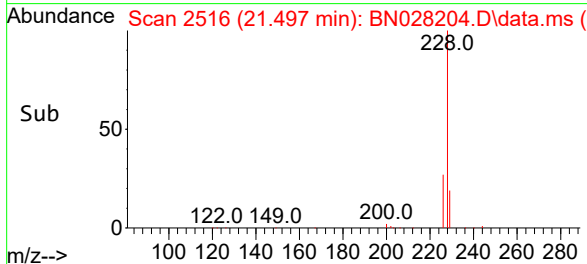
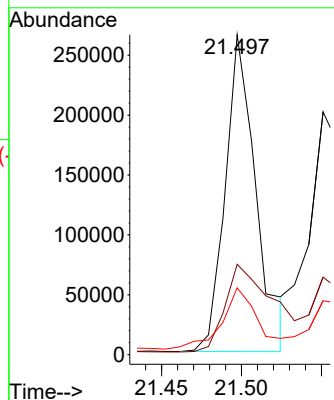
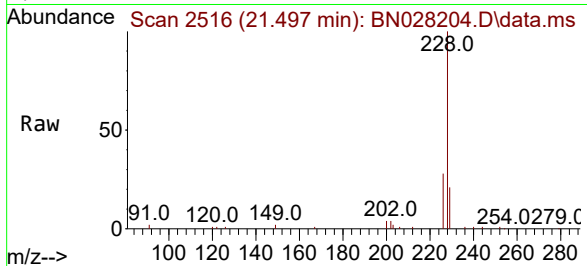




#32
Benzo(a)anthracene
Concen: 8.263 ng
RT: 21.497 min Scan# 21497
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

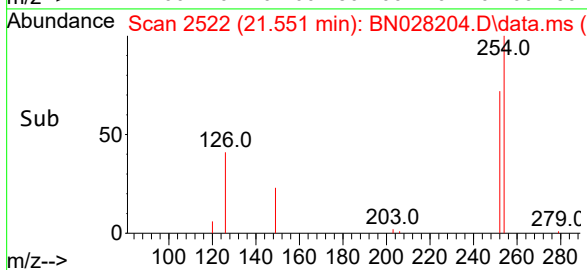
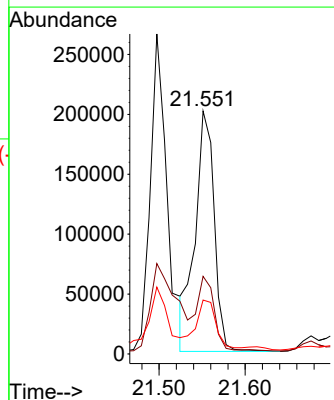
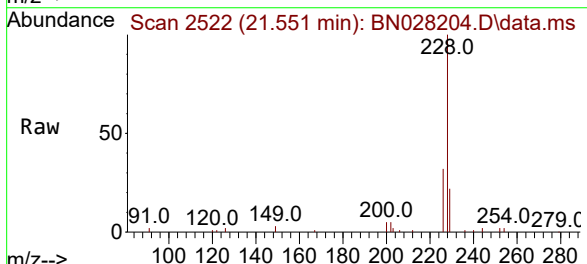
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

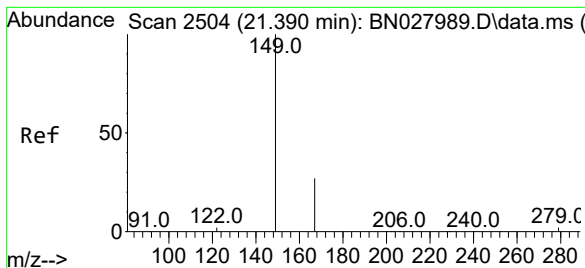
Tgt Ion:228 Resp: 354886
Ion Ratio Lower Upper
228 100
226 28.3 22.0 33.0
229 20.9 16.0 24.0



#33
Chrysene
Concen: 7.497 ng
RT: 21.551 min Scan# 2522
Delta R.T. -0.000 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:228 Resp: 310313
Ion Ratio Lower Upper
228 100
226 31.9 23.8 35.8
229 22.2 16.6 25.0

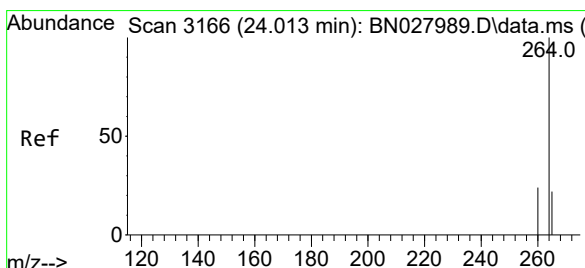
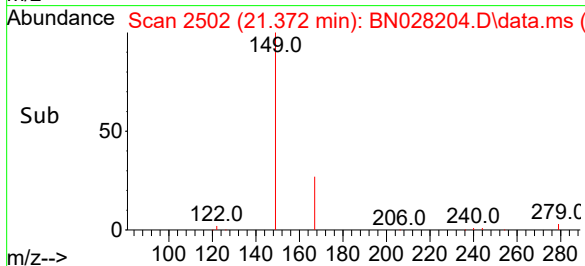
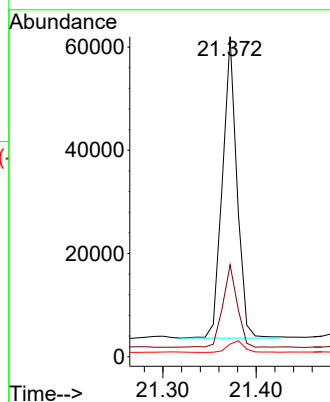
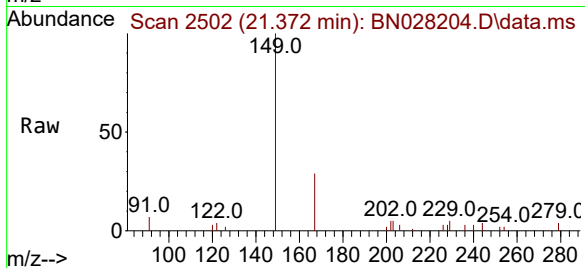




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.229 ng
RT: 21.372 min Scan# 2137
Delta R.T. 0.009 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

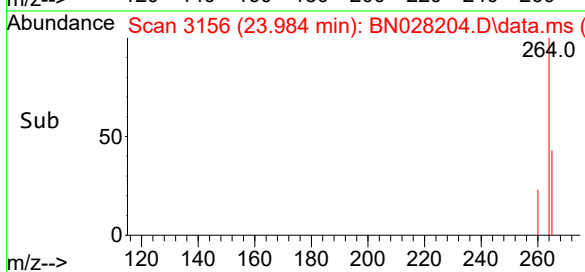
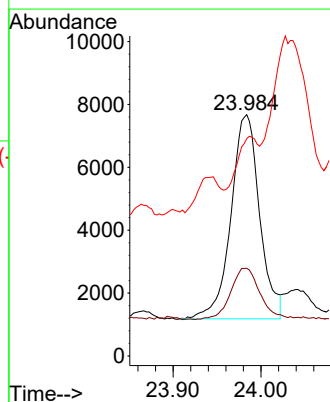
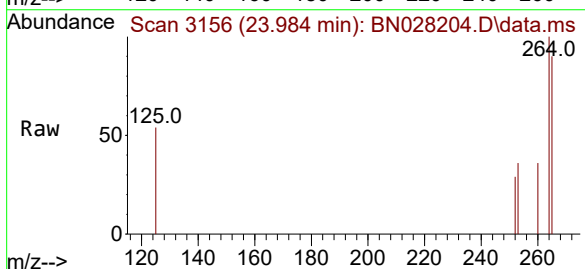
Instrument :
BNA_N
ClientSampleId :
S-4(0-5)

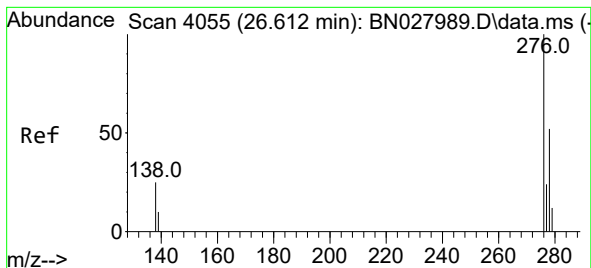
Tgt Ion:149 Resp: 62963
Ion Ratio Lower Upper
149 100
167 27.4 22.1 33.1
279 4.2 3.4 5.0



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.984 min Scan# 3156
Delta R.T. 0.009 min
Lab File: BN028204.D
Acq: 10 Oct 2023 19:16

Tgt Ion:264 Resp: 14739
Ion Ratio Lower Upper
264 100
260 36.4 20.2 30.4#
265 90.1 54.8 82.2#





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.477 ng

RT: 26.568 min Scan# 4055

Delta R.T. 0.011 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BN028204.D

ClientSampleId :

S-4(0-5)

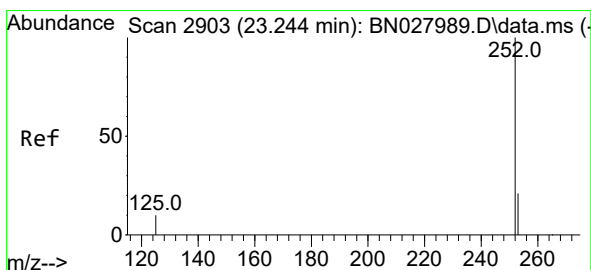
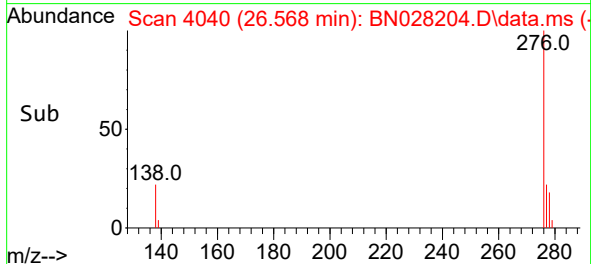
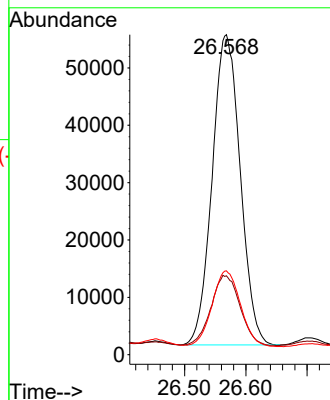
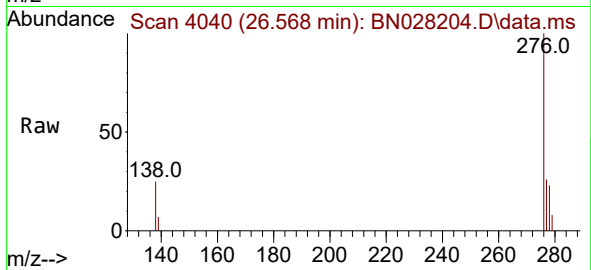
Tgt Ion:276 Resp: 172371

Ion Ratio Lower Upper

276 100

138 23.5 20.9 31.3

277 24.7 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 7.168 ng

RT: 23.224 min Scan# 2896

Delta R.T. 0.011 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

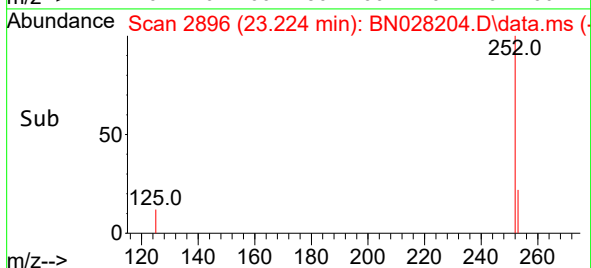
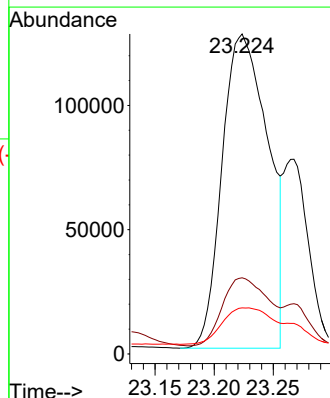
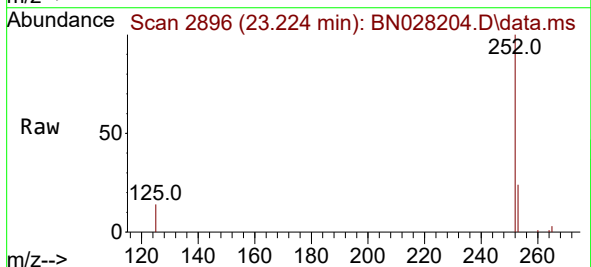
Tgt Ion:252 Resp: 341211

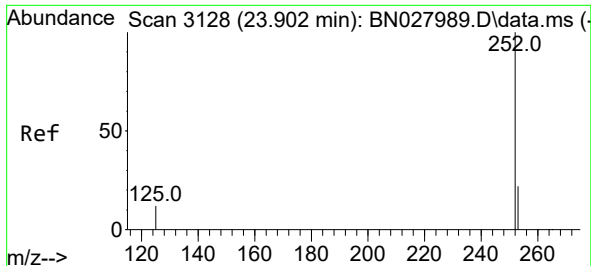
Ion Ratio Lower Upper

252 100

253 23.8 22.9 34.3

125 14.4 13.8 20.8





#39

Benzo(a)pyrene

Concen: 6.839 ng

RT: 23.873 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

Instrument :

BN028204.D

ClientSampleId :

S-4(0-5)

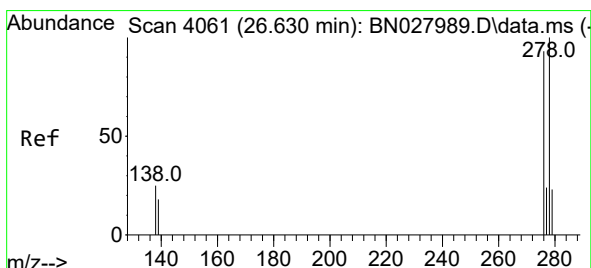
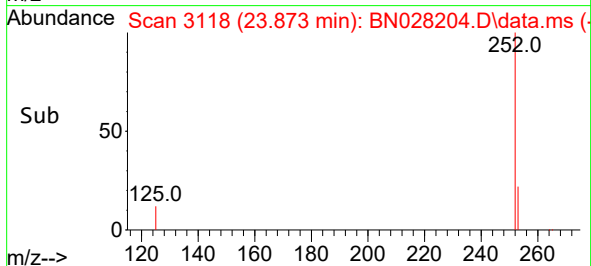
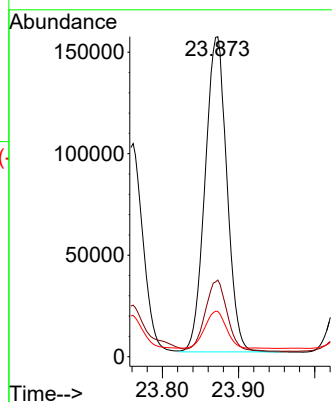
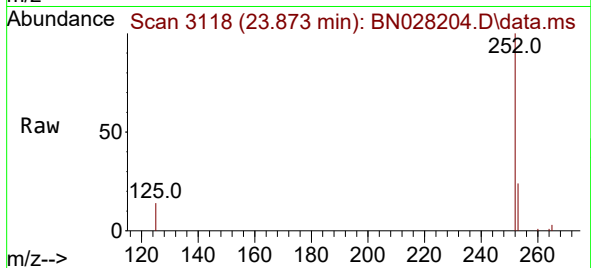
Tgt Ion:252 Resp: 307852

Ion Ratio Lower Upper

252 100

253 24.0 25.0 37.4#

125 14.1 16.6 24.8#



#40

Dibenzo(a,h)anthracene

Concen: 1.347 ng

RT: 26.580 min Scan# 4044

Delta R.T. 0.003 min

Lab File: BN028204.D

Acq: 10 Oct 2023 19:16

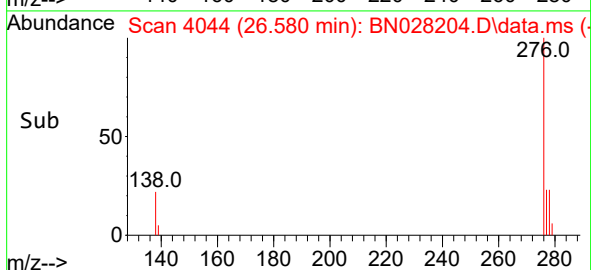
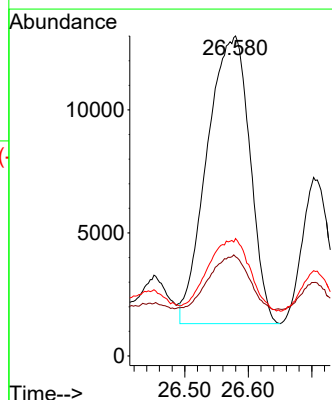
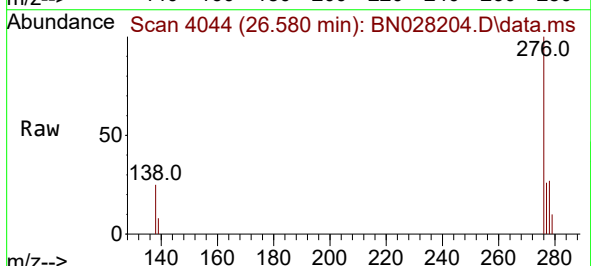
Tgt Ion:278 Resp: 54640

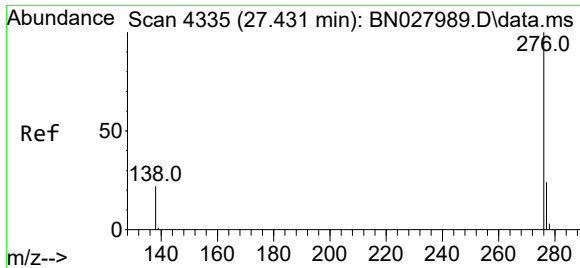
Ion Ratio Lower Upper

278 100

139 31.0 17.7 26.5#

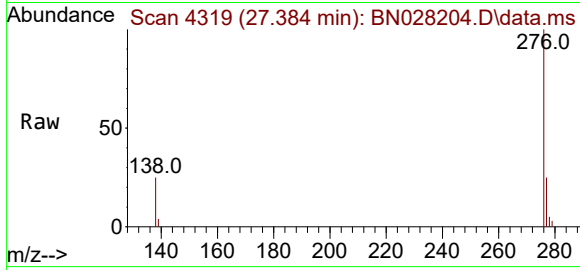
279 36.7 25.2 37.8





#41
 Benzo(g,h,i)perylene
 Concen: 4.489 ng
 RT: 27.384 min Scan# 41
 Delta R.T. 0.017 min
 Lab File: BN028204.D
 Acq: 10 Oct 2023 19:16

Instrument :
 BNA_N
 ClientSampleId :
 S-4(0-5)



Tgt Ion:	276	Resp:	186866
Ion	Ratio	Lower	Upper
276	100		
277	25.3	22.1	33.1
138	25.5	20.8	31.2

