

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110223\
 Data File : BN028446.D
 Acq On : 03 Nov 2023 06:32
 Operator : MA/JU
 Sample : 05220-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 Z-7(0-5)

Quant Time: Nov 03 07:14:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 02 06:26:50 2023
 Response via : Initial Calibration

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

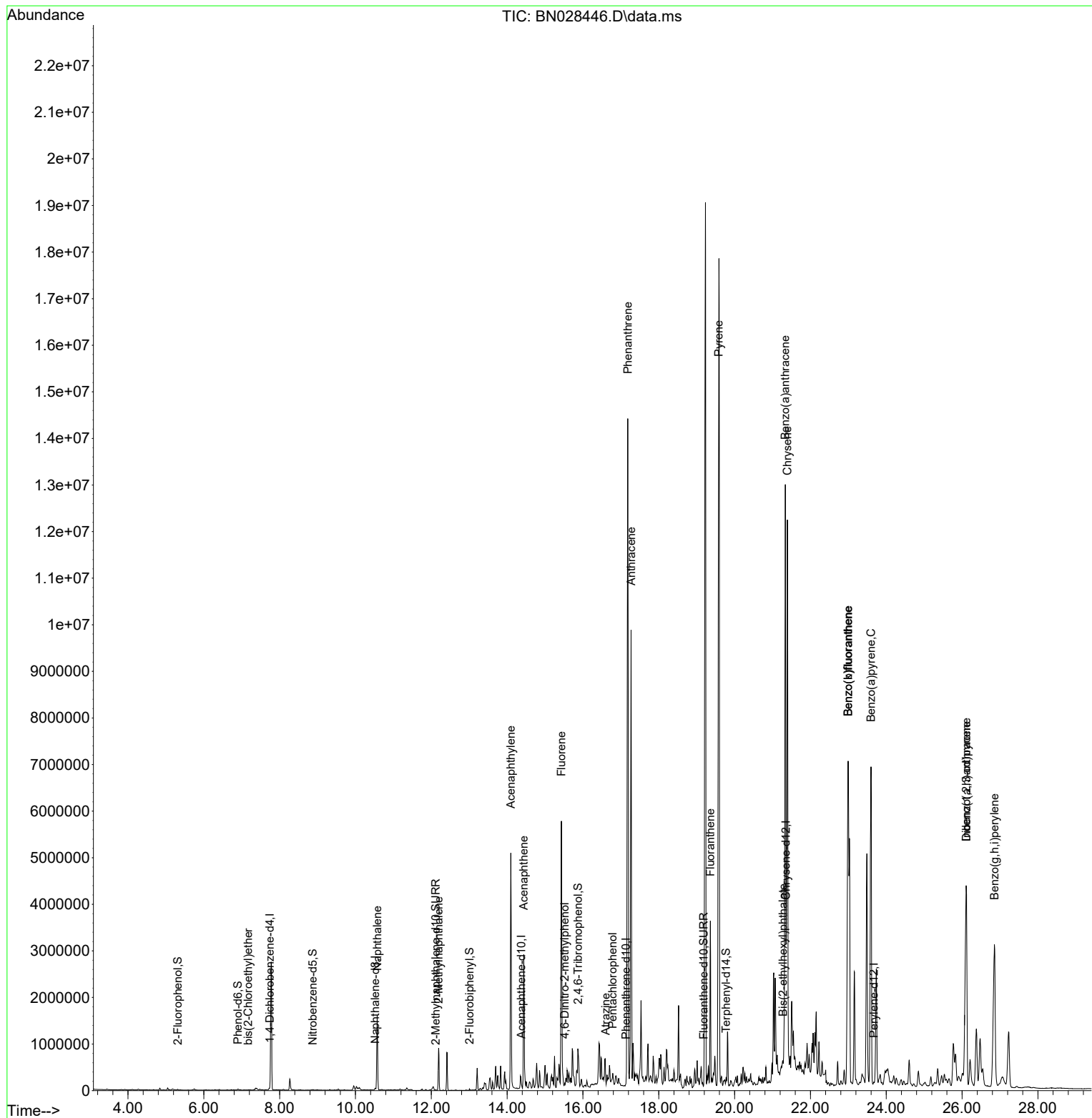
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	14254	0.400	ng	# 0.01
7) Naphthalene-d8	10.519	136	34933	0.400	ng	# 0.00
13) Acenaphthene-d10	14.374	164	30229	0.400	ng	0.01
19) Phenanthrene-d10	17.133	188	35557	0.400	ng	# 0.01
29) Chrysene-d12	21.355	240	28489	0.400	ng	# 0.03
35) Perylene-d12	23.675	264	35786	0.400	ng	# 0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	10939	0.294	ng	0.01
5) Phenol-d6	6.901	99	13880	0.294	ng	0.01
8) Nitrobenzene-d5	8.875	82	9121	0.404	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	17678	0.354	ng	0.00
14) 2,4,6-Tribromophenol	15.867	330	3479	0.295	ng	0.01
15) 2-Fluorobiphenyl	13.006	172	12968	0.361	ng	0.00
27) Fluoranthene-d10	19.185	212	31430	0.358	ng	0.03
31) Terphenyl-d14	19.775	244	38522	0.642	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.168	93	1678	0.041	ng	# 65
9) Naphthalene	10.573	128	1971991	20.915	ng	100
12) 2-Methylnaphthalene	12.193	142	626145	9.530	ng	100
16) Acenaphthylene	14.096	152	5699964	38.176	ng	99
17) Acenaphthene	14.438	154	1427162	15.076	ng	98
18) Fluorene	15.432	166	3560754	27.638	ng	99
20) 4,6-Dinitro-2-methylph...	15.520	198	1199	0.453	ng	# 1
23) Atrazine	16.600	200	2059	0.125	ng	# 1
24) Pentachlorophenol	16.786	266	740	0.099	ng	85
25) Phenanthrene	17.183	178	17349761	165.181	ng	# 94
26) Anthracene	17.270	178	10087757	100.582	ng	97
28) Fluoranthene	19.361	202	2932866	23.922	ng	94
30) Pyrene	19.580	202	19248058	161.982	ng	# 84
32) Benzo(a)anthracene	21.337	228	13001728	115.001	ng	# 87
33) Chrysene	21.391	228	10715798	95.151	ng	# 92
34) Bis(2-ethylhexyl)phtha...	21.274	149	131987	2.258	ng	# 79
36) Indeno(1,2,3-cd)pyrene	26.110	276	7891800	55.929	ng	# 91
37) Benzo(b)fluoranthene	22.994	252	13996772	100.408	ng	97
38) Benzo(k)fluoranthene	22.994	252	2693236	19.222	ng	96
39) Benzo(a)pyrene	23.599	252	11510759	94.465	ng	95
40) Dibenzo(a,h)anthracene	26.110	278	2167538	18.942	ng	95
41) Benzo(g,h,i)perylene	26.853	276	7383983	60.253	ng	94

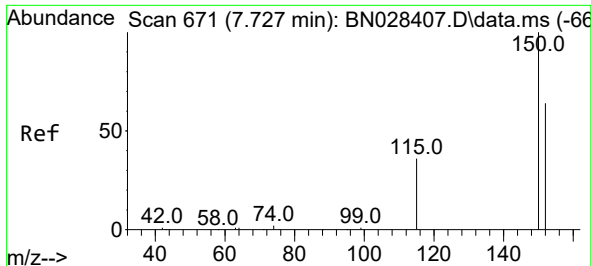
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110223\
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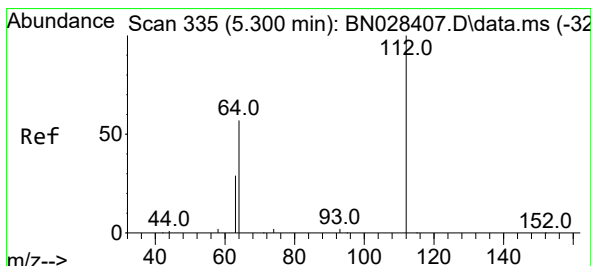
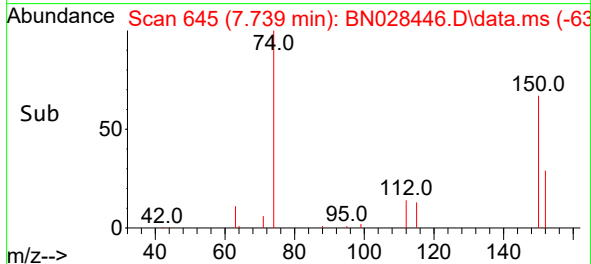
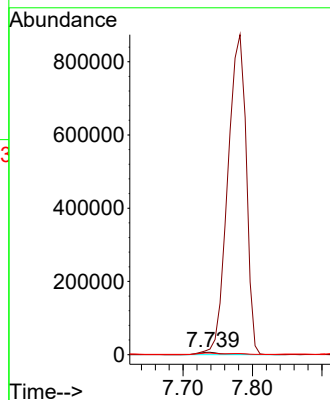
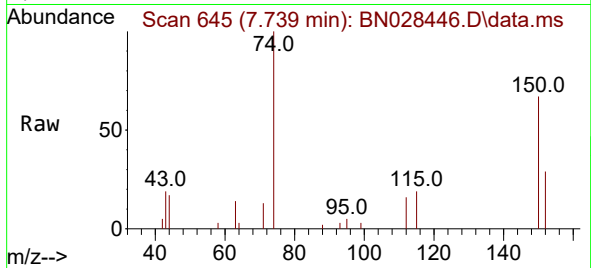




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.739 min Scan# 64
 Delta R.T. 0.012 min
 Lab File: BN028446.D
 Acq: 03 Nov 2023 06:32

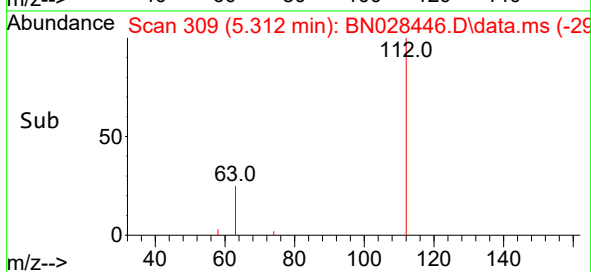
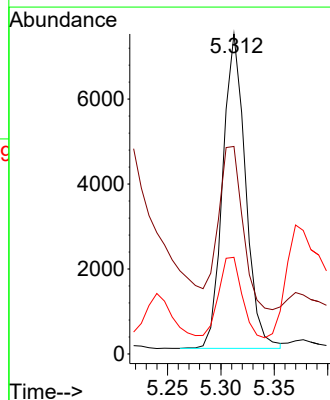
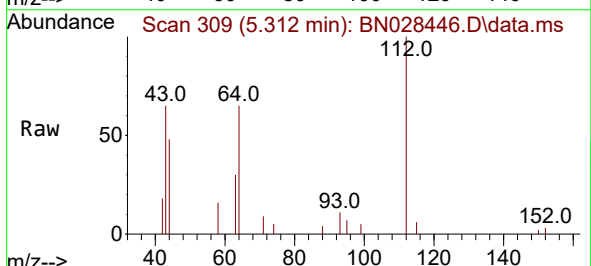
Instrument :
 BNA_N
 ClientSampleId :
 Z-7(0-5)

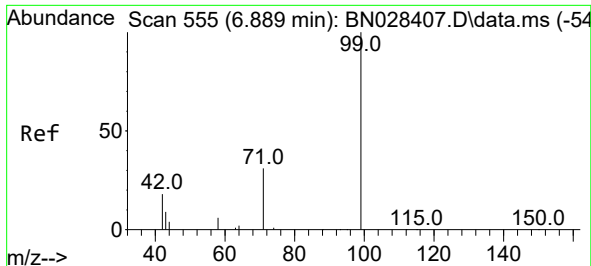
Tgt Ion:152 Resp: 14254
 Ion Ratio Lower Upper
 152 100
 150 233.5 123.8 185.6#
 115 66.1 47.0 70.6



#4
 2-Fluorophenol
 Concen: 0.294 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.012 min
 Lab File: BN028446.D
 Acq: 03 Nov 2023 06:32

Tgt Ion:112 Resp: 10939
 Ion Ratio Lower Upper
 112 100
 64 55.4 44.3 66.5
 63 26.1 22.6 33.8

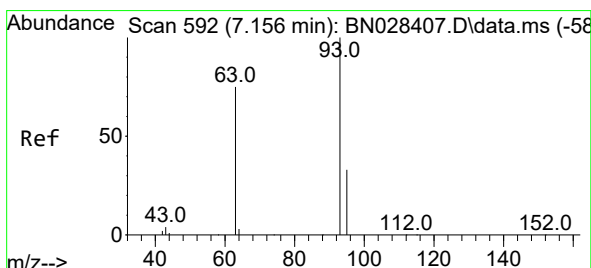
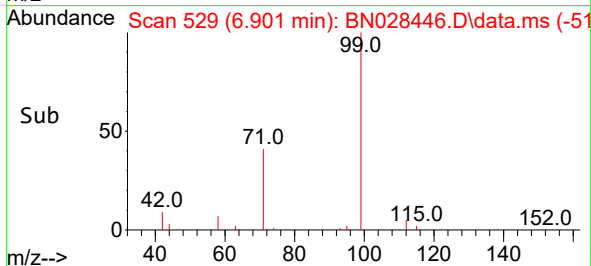
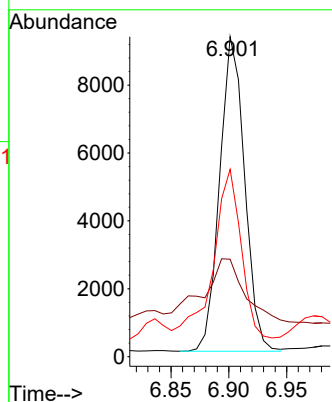
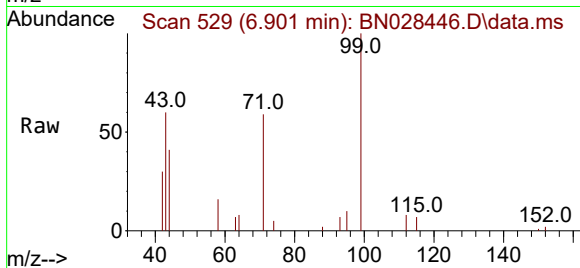




#5
Phenol-d6
Concen: 0.294 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

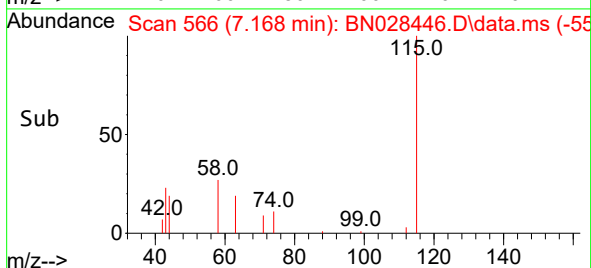
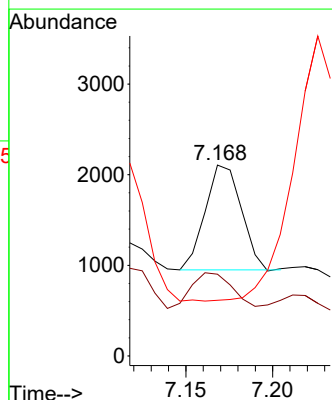
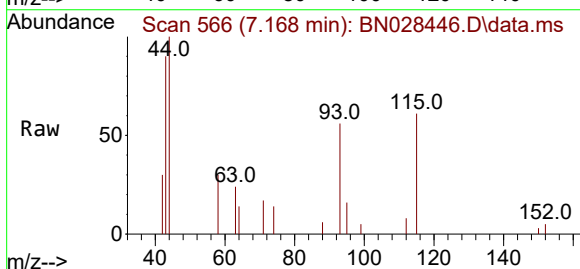
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

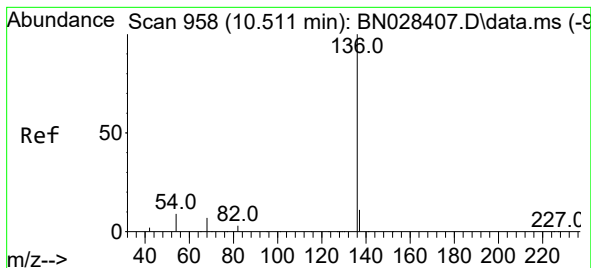
Tgt Ion: 99 Resp: 13880
Ion Ratio Lower Upper
99 100
42 37.9 15.4 23.0#
71 60.3 24.4 36.6#



#6
bis(2-Chloroethyl)ether
Concen: 0.041 ng
RT: 7.168 min Scan# 566
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion: 93 Resp: 1678
Ion Ratio Lower Upper
93 100
63 54.6 61.4 92.0#
95 0.0 26.1 39.1#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.519 min Scan# 91

Delta R.T. 0.008 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

Tgt Ion:136 Resp: 34933

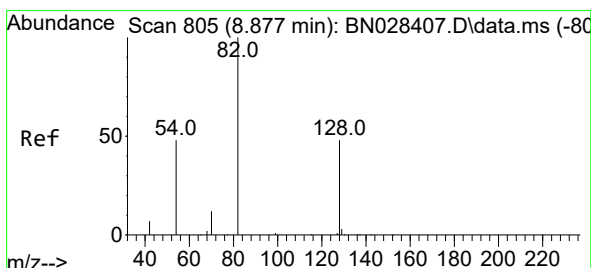
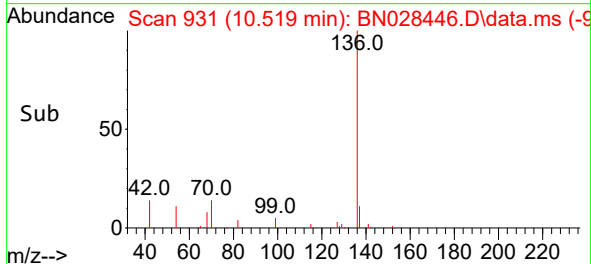
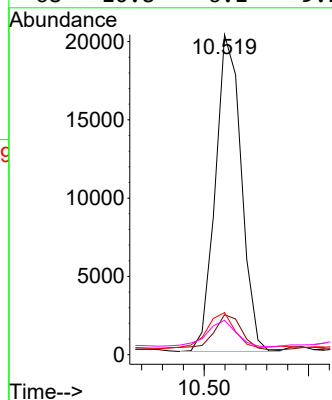
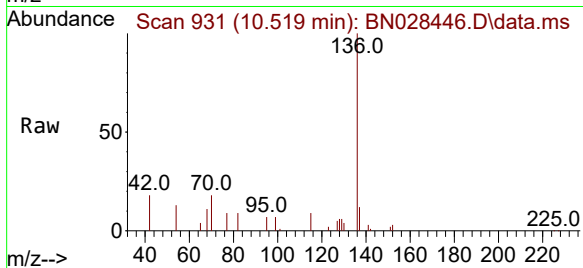
Ion Ratio Lower Upper

136 100

137 12.5 9.0 13.4

54 13.1 7.9 11.9#

68 10.8 6.1 9.1#



#8

Nitrobenzene-d5

Concen: 0.404 ng

RT: 8.875 min Scan# 777

Delta R.T. -0.002 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

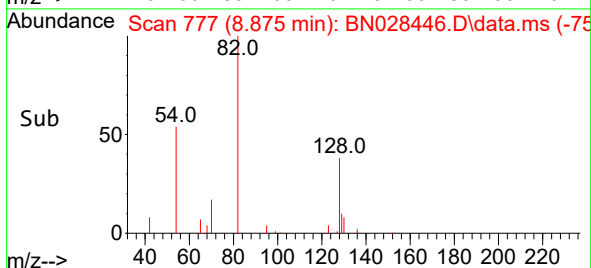
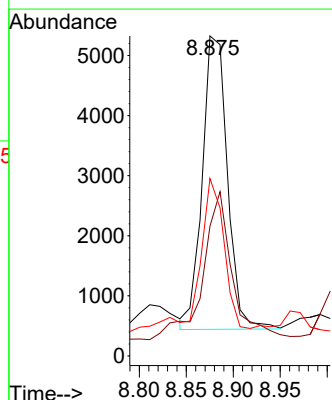
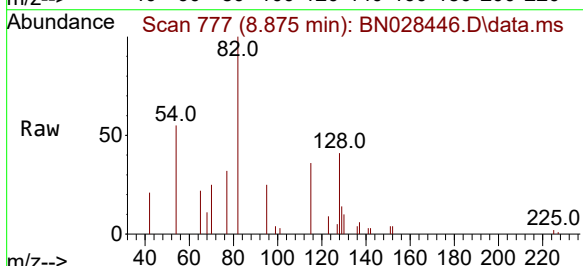
Tgt Ion: 82 Resp: 9121

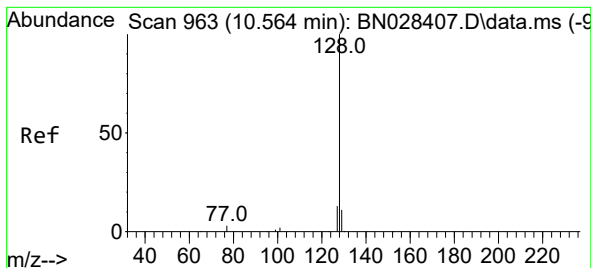
Ion Ratio Lower Upper

82 100

128 40.5 38.8 58.2

54 55.5 40.3 60.5





#9

Naphthalene

Concen: 20.915 ng

RT: 10.573 min Scan# 91

Delta R.T. 0.008 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

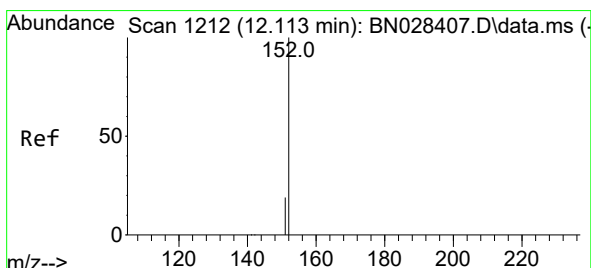
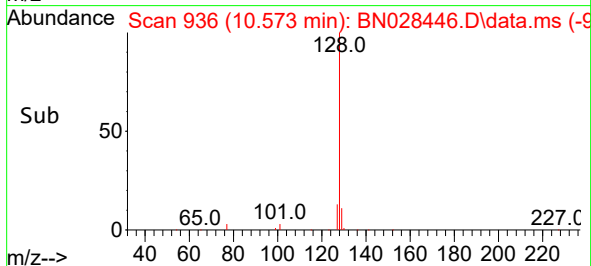
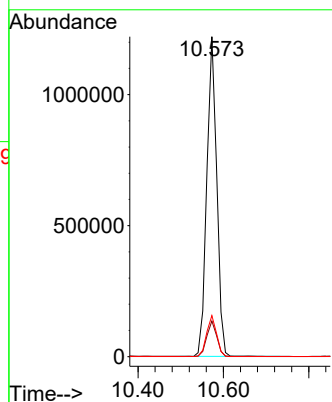
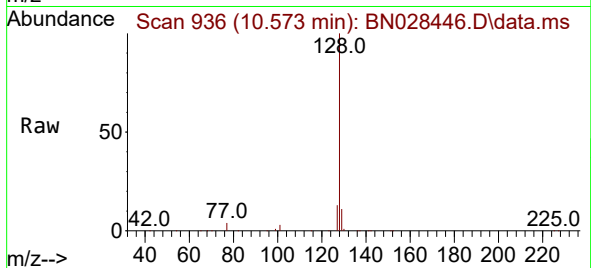
Tgt Ion:128 Resp: 1971991

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 12.8 10.4 15.6



#11

2-Methylnaphthalene-d10

Concen: 0.354 ng

RT: 12.121 min Scan# 1185

Delta R.T. 0.008 min

Lab File: BN028446.D

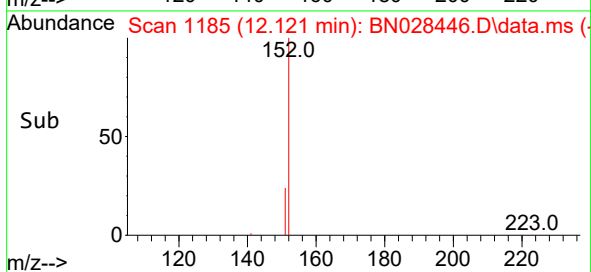
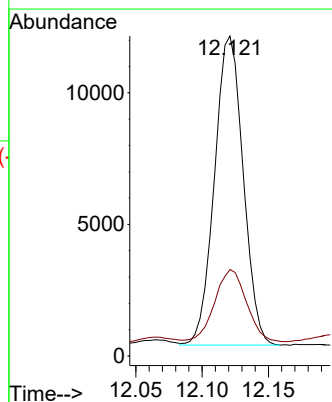
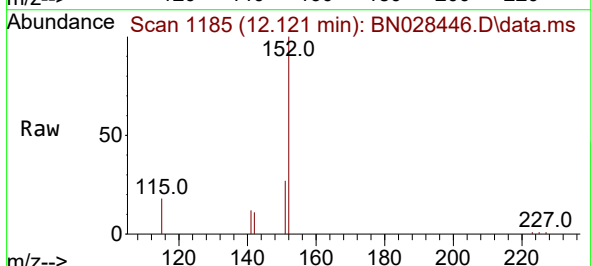
Acq: 03 Nov 2023 06:32

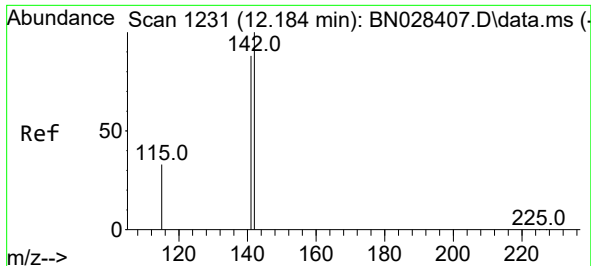
Tgt Ion:152 Resp: 17678

Ion Ratio Lower Upper

152 100

151 26.2 16.4 24.6#

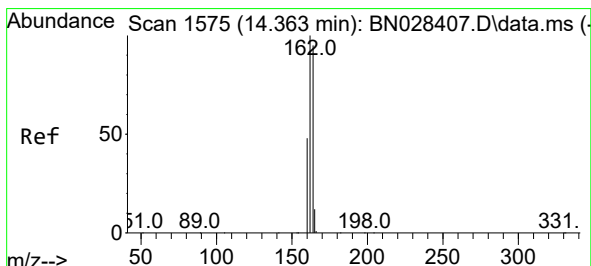
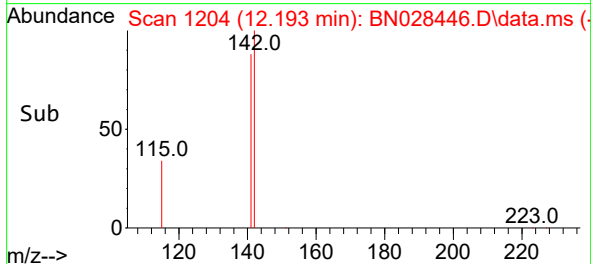
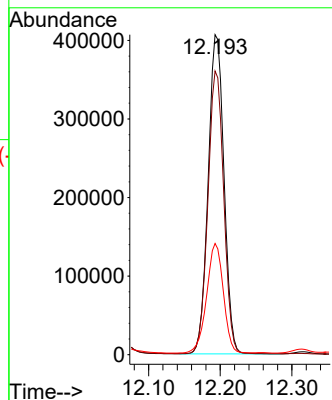
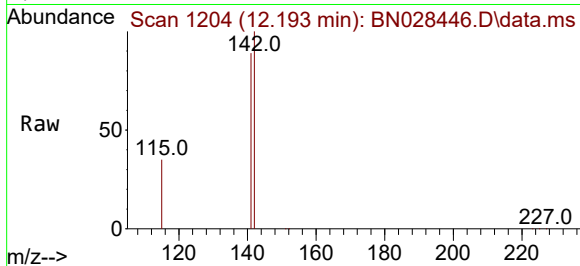




#12
2-Methylnaphthalene
Concen: 9.530 ng
RT: 12.193 min Scan# 11
Delta R.T. 0.008 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

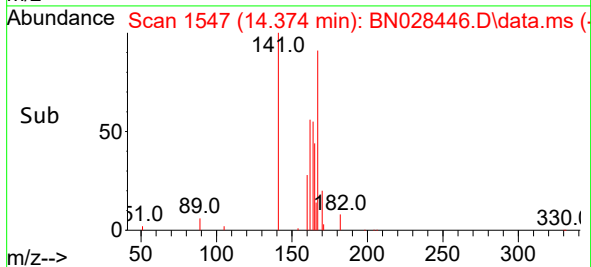
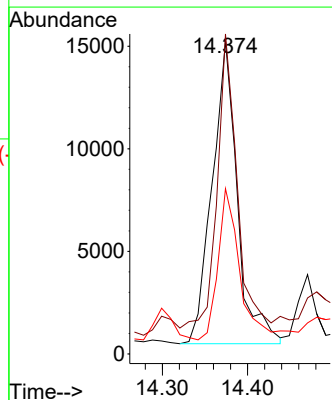
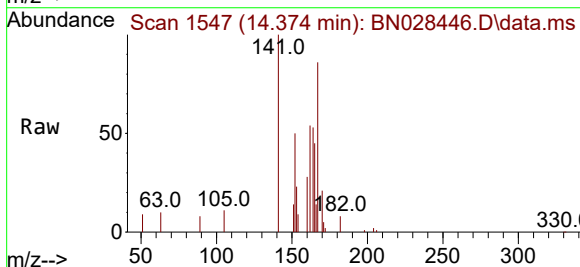
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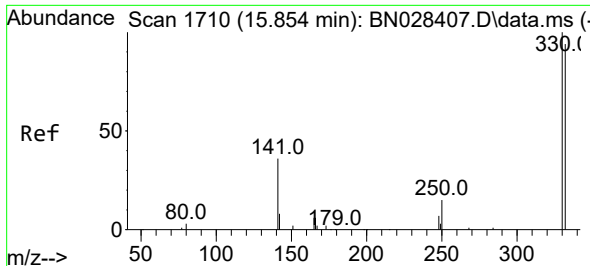
Tgt Ion:142 Resp: 626145
Ion Ratio Lower Upper
142 100
141 88.7 70.7 106.1
115 34.8 27.6 41.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.374 min Scan# 1547
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:164 Resp: 30229
Ion Ratio Lower Upper
164 100
162 102.2 84.6 127.0
160 52.8 41.3 61.9

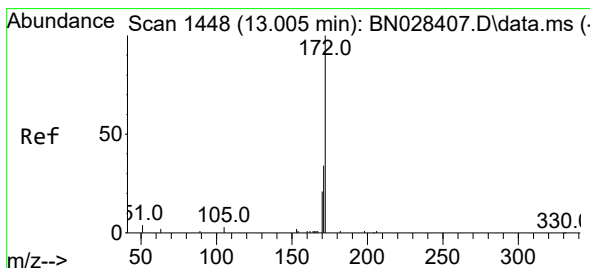
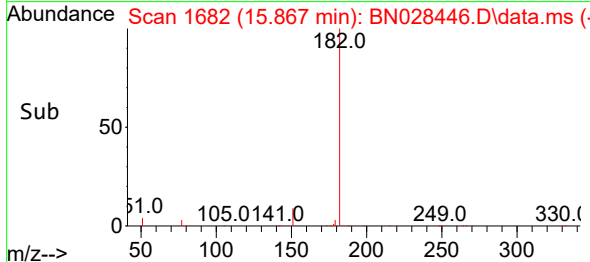
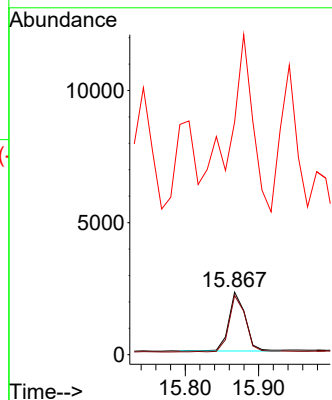
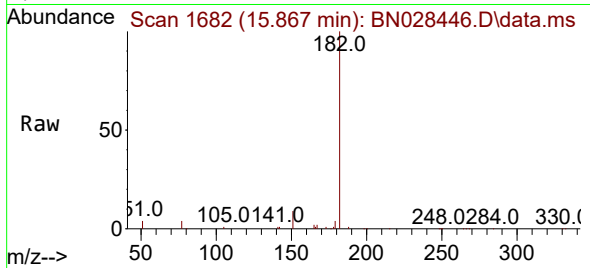




#14
2,4,6-Tribromophenol
Concen: 0.295 ng
RT: 15.867 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

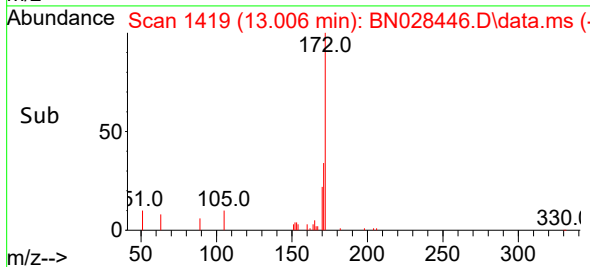
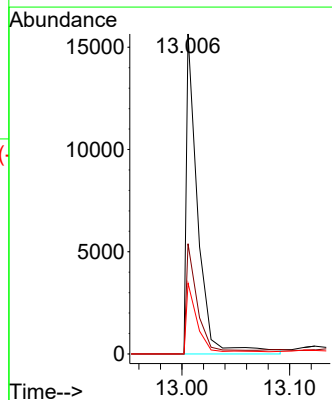
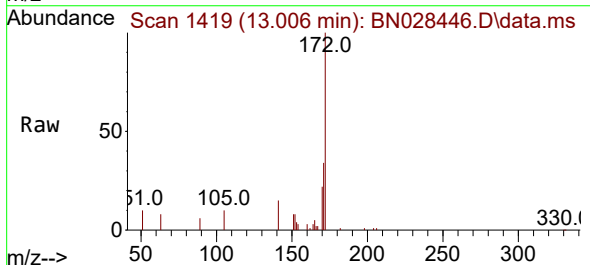
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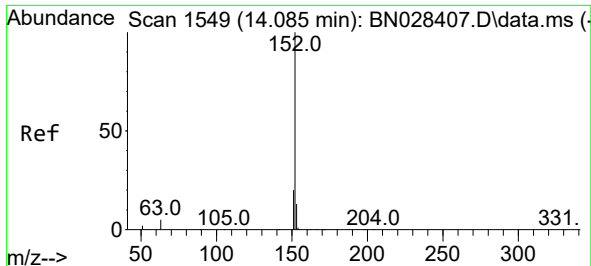
Tgt Ion:330 Resp: 3479
Ion Ratio Lower Upper
330 100
332 98.4 76.2 114.2
141 401.1 32.8 49.2#



#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 13.006 min Scan# 1419
Delta R.T. 0.001 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:172 Resp: 12968
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 22.1 17.1 25.7

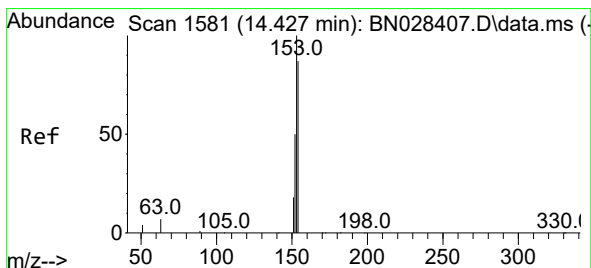
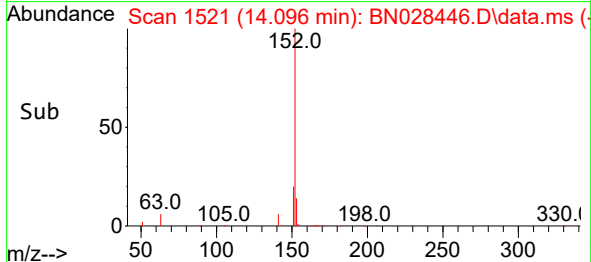
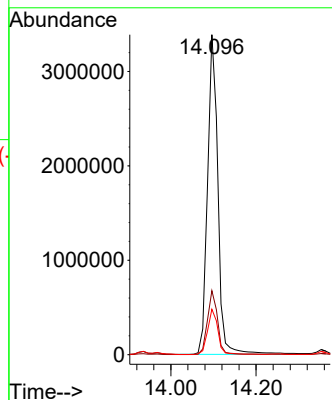
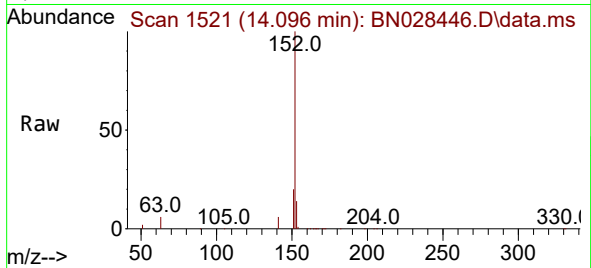




#16
Acenaphthylene
Concen: 38.176 ng
RT: 14.096 min Scan# 1521
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

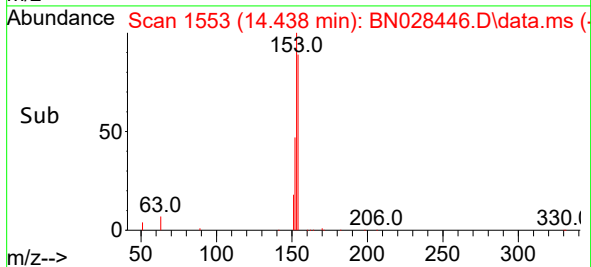
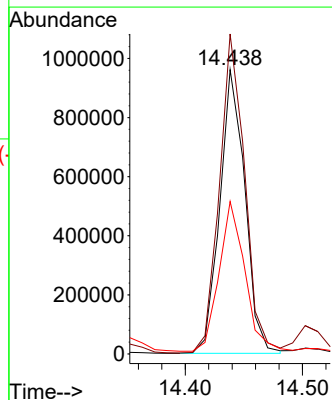
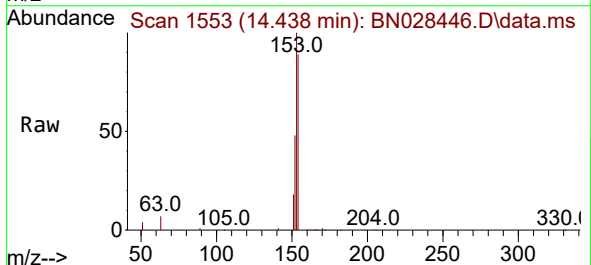
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

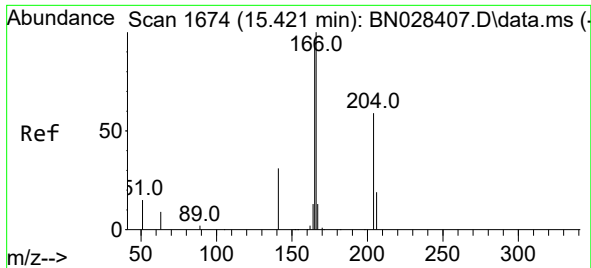
Tgt Ion:152 Resp: 5699964
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 14.0 10.5 15.7



#17
Acenaphthene
Concen: 15.076 ng
RT: 14.438 min Scan# 1553
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:154 Resp: 1427162
Ion Ratio Lower Upper
154 100
153 113.4 90.5 135.7
152 54.0 45.8 68.6

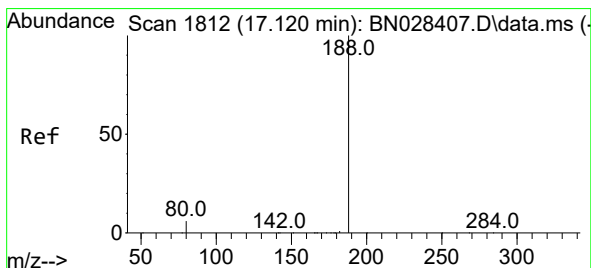
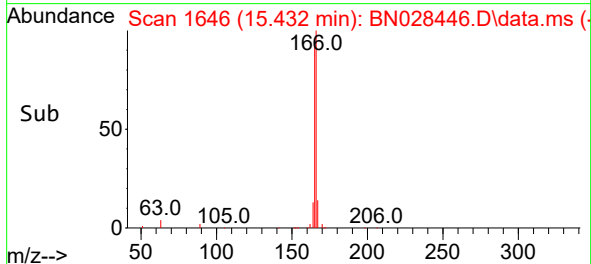
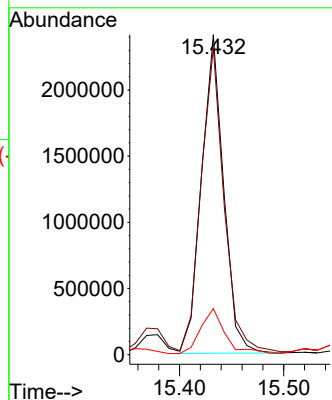
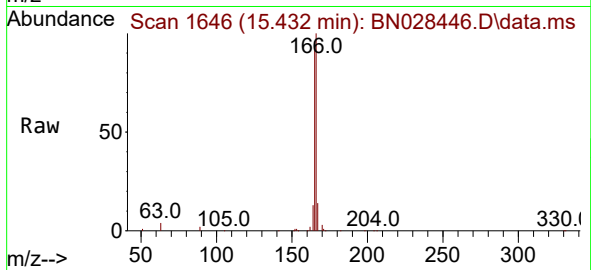




#18
Fluorene
Concen: 27.638 ng
RT: 15.432 min Scan# 1784
Delta R.T. 0.012 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

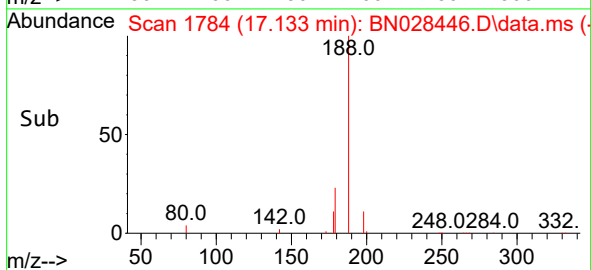
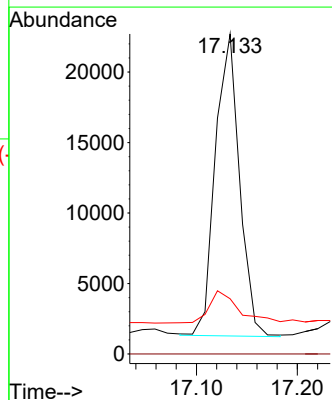
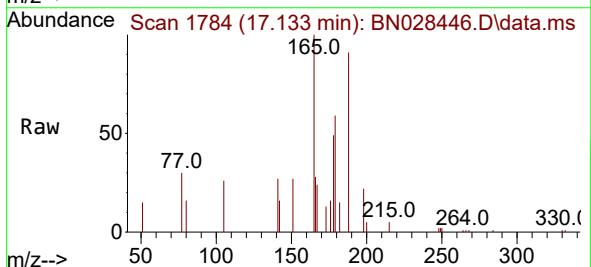
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

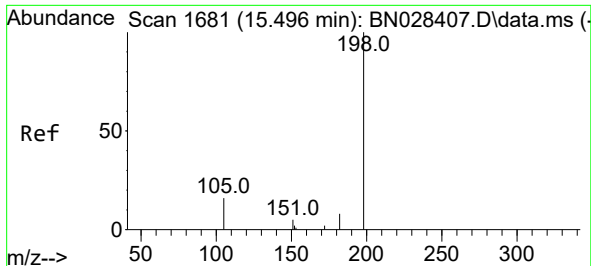
Tgt Ion:166 Resp: 3560754
Ion Ratio Lower Upper
166 100
165 98.4 79.2 118.8
167 15.5 10.6 16.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.133 min Scan# 1784
Delta R.T. 0.013 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:188 Resp: 35557
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.3 5.3 7.9#

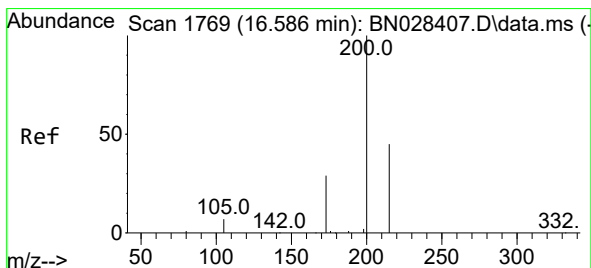
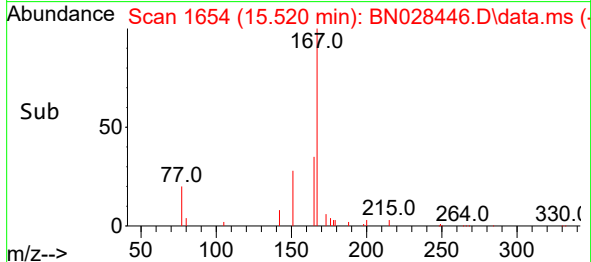
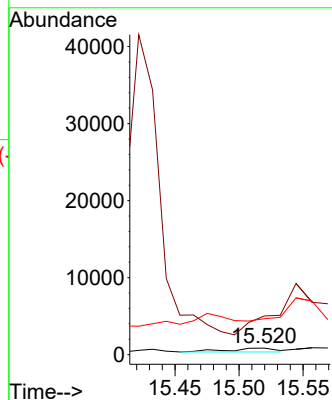
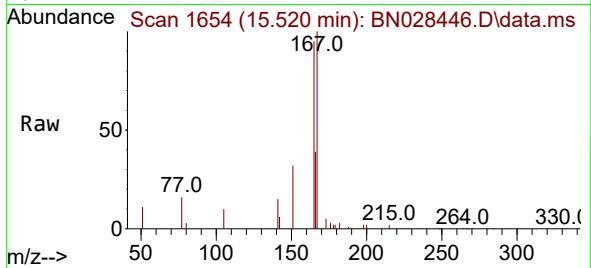




#20
4,6-Dinitro-2-methylphenol
Concen: 0.453 ng
RT: 15.520 min Scan# 11
Delta R.T. 0.024 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

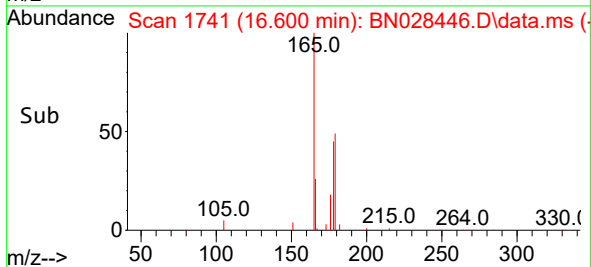
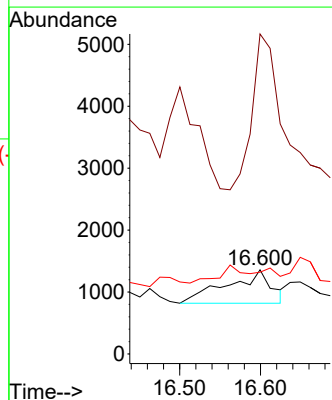
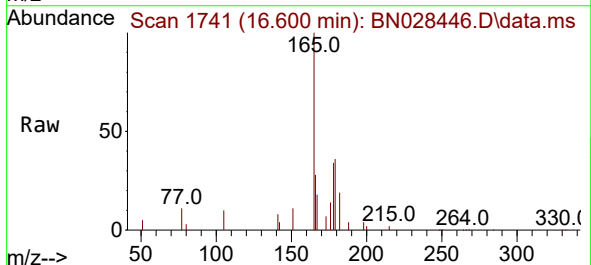
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

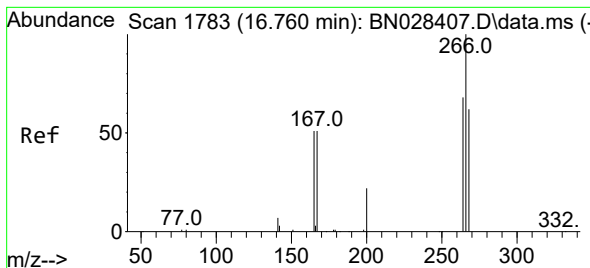
Tgt Ion:198 Resp: 1199
Ion Ratio Lower Upper
198 100
51 588.5 63.3 94.9#
105 547.5 50.0 75.0#



#23
Atrazine
Concen: 0.125 ng
RT: 16.600 min Scan# 1741
Delta R.T. 0.013 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:200 Resp: 2059
Ion Ratio Lower Upper
200 100
173 379.9 24.3 36.5#
215 97.0 36.2 54.4#





#24

Pentachlorophenol

Concen: 0.099 ng

RT: 16.786 min Scan# 1756

Delta R.T. 0.026 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

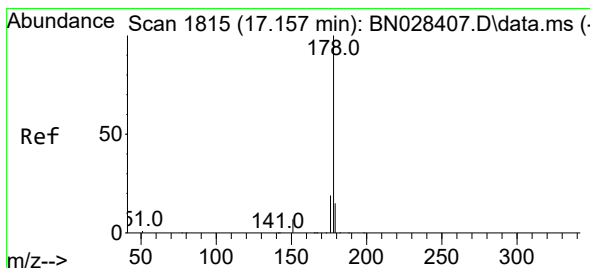
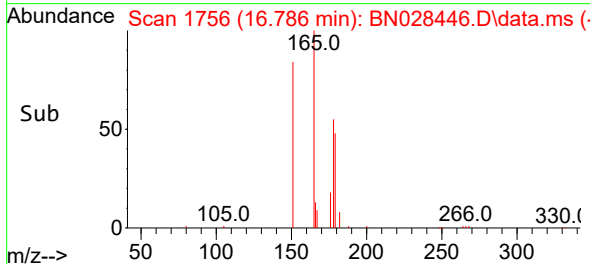
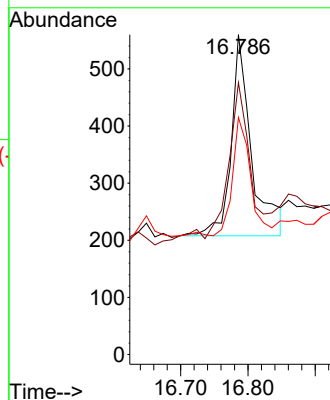
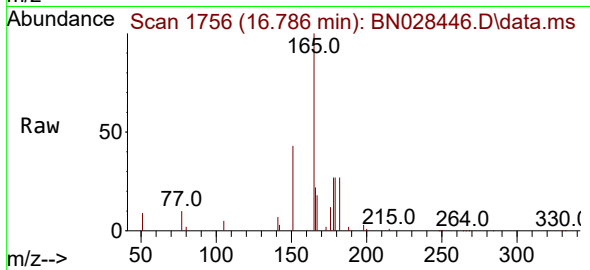
Tgt Ion:266 Resp: 740

Ion Ratio Lower Upper

266 100

264 75.1 50.9 76.3

268 52.0 51.0 76.4



#25

Phenanthrene

Concen: 165.181 ng

RT: 17.183 min Scan# 1788

Delta R.T. 0.026 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

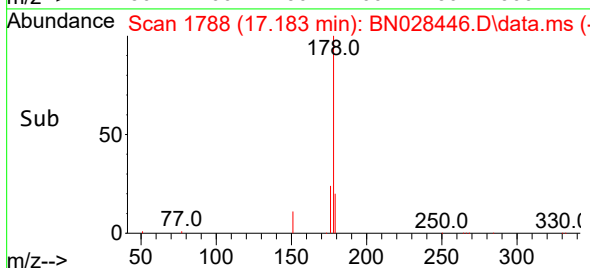
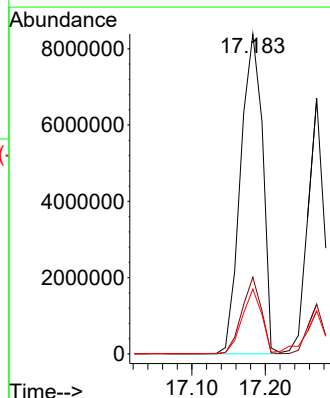
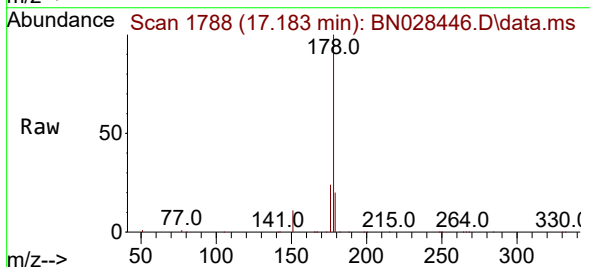
Tgt Ion:178 Resp:17349761

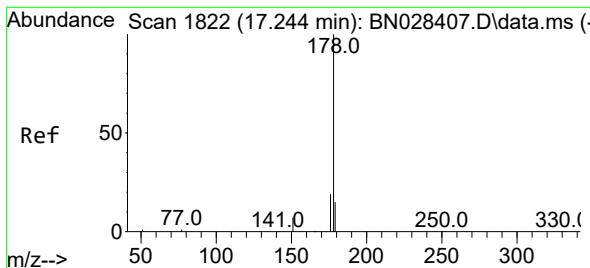
Ion Ratio Lower Upper

178 100

176 21.2 15.2 22.8

179 18.4 12.2 18.2#





#26

Anthracene

Concen: 100.582 ng

RT: 17.270 min Scan# 11

Delta R.T. 0.026 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

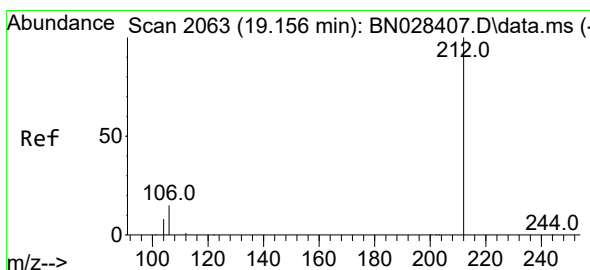
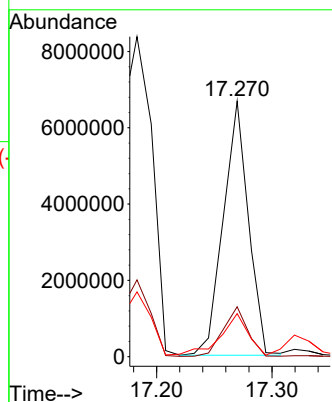
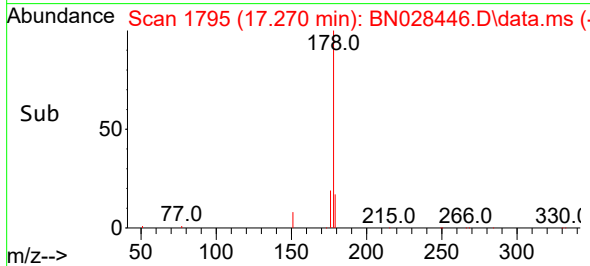
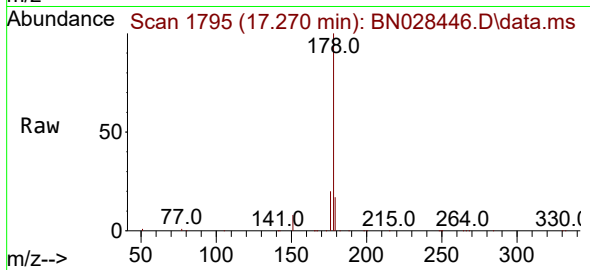
Tgt Ion:178 Resp:10087757

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

179 17.8 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.185 min Scan# 2040

Delta R.T. 0.029 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

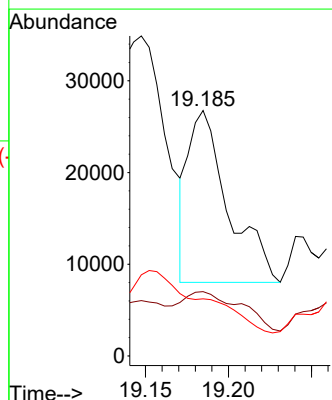
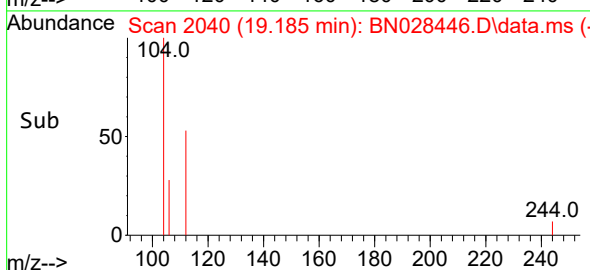
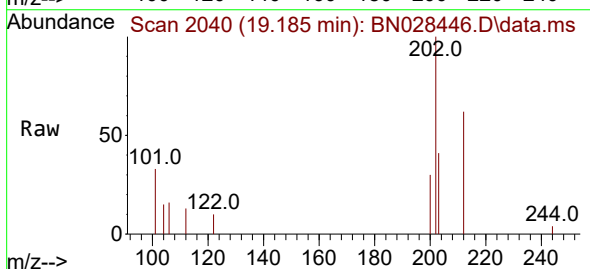
Tgt Ion:212 Resp: 31430

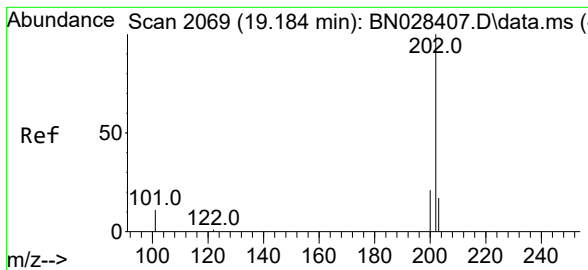
Ion Ratio Lower Upper

212 100

106 33.2 11.9 17.9#

104 0.0 6.7 10.1#





#28

Fluoranthene

Concen: 23.922 ng

RT: 19.361 min Scan# 2069

Delta R.T. 0.177 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

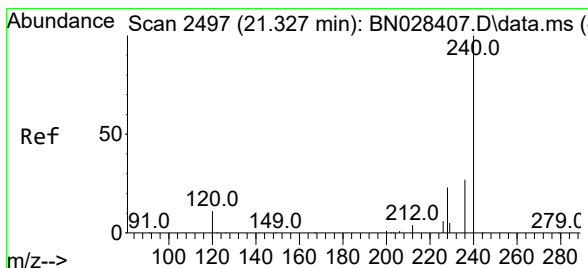
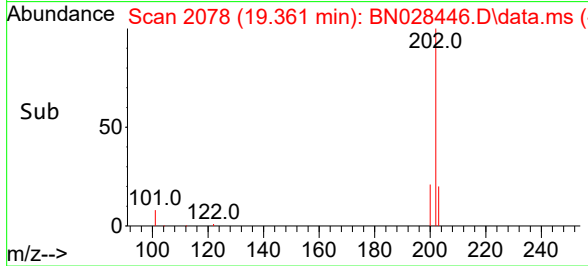
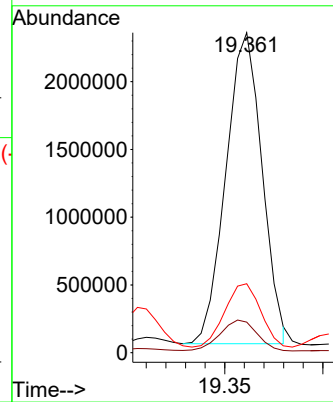
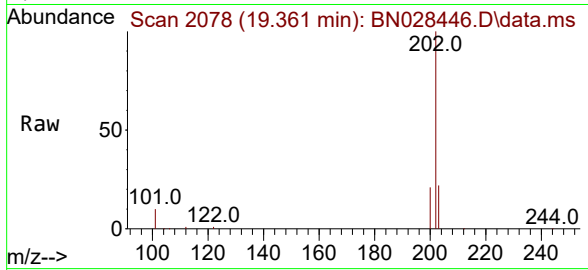
Tgt Ion:202 Resp: 2932866

Ion Ratio Lower Upper

202 100

101 9.8 9.3 13.9

203 20.2 13.7 20.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.355 min Scan# 2471

Delta R.T. 0.028 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

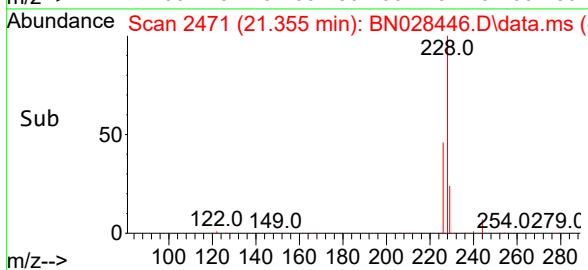
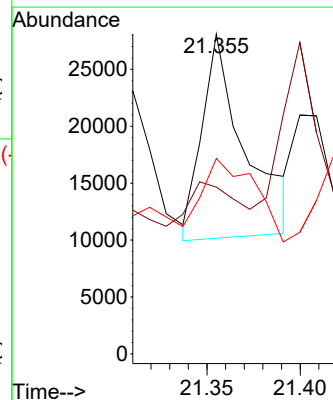
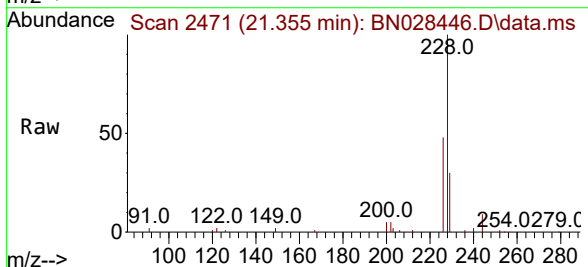
Tgt Ion:240 Resp: 28489

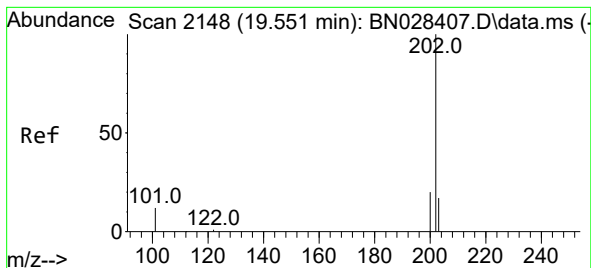
Ion Ratio Lower Upper

240 100

120 52.1 9.8 14.6#

236 61.1 22.2 33.2#





#30

Pyrene

Concen: 161.982 ng

RT: 19.580 min Scan# 21

Delta R.T. 0.029 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

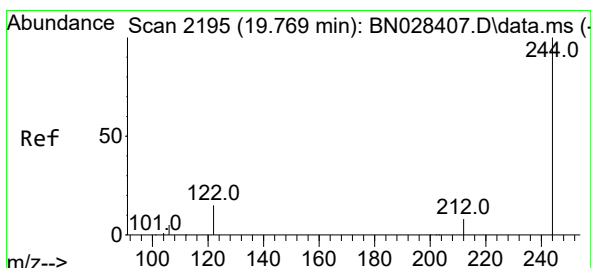
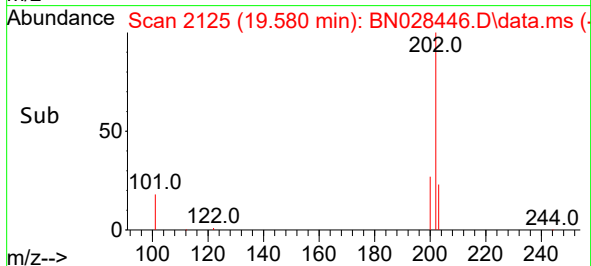
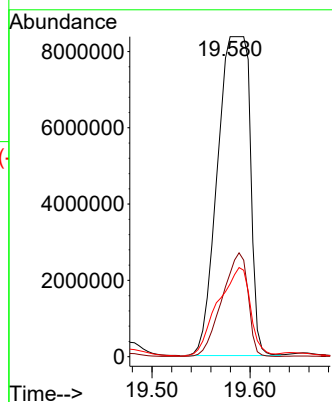
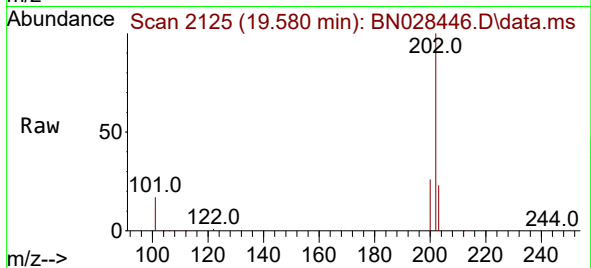
Tgt Ion:202 Resp:19248058

Ion Ratio Lower Upper

202 100

200 25.9 16.6 25.0#

203 27.5 14.2 21.2#



#31

Terphenyl-d14

Concen: 0.642 ng

RT: 19.775 min Scan# 2167

Delta R.T. 0.005 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

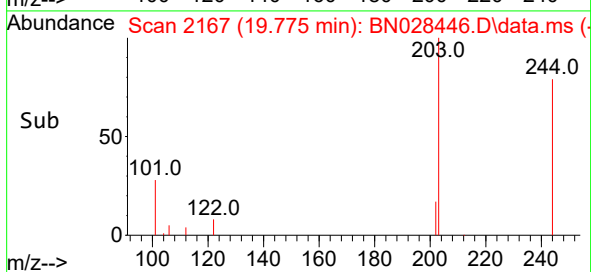
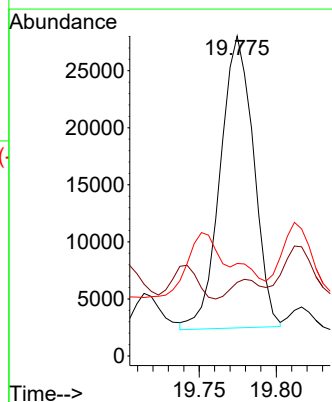
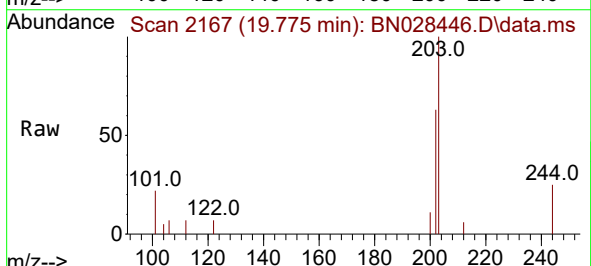
Tgt Ion:244 Resp: 38522

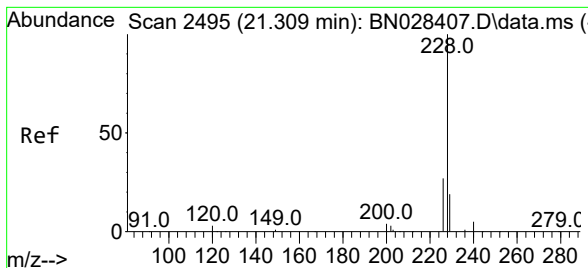
Ion Ratio Lower Upper

244 100

212 23.0 6.6 10.0#

122 28.9 12.6 19.0#





#32

Benzo(a)anthracene

Concen: 115.001 ng

RT: 21.337 min Scan# 2469

Delta R.T. 0.028 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

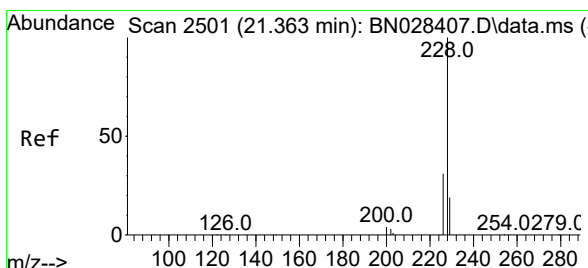
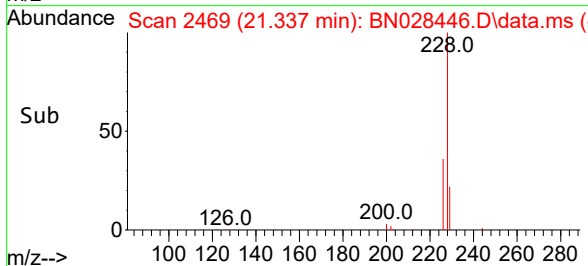
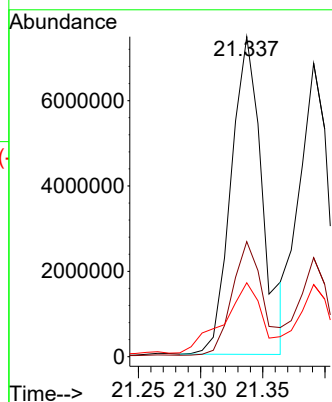
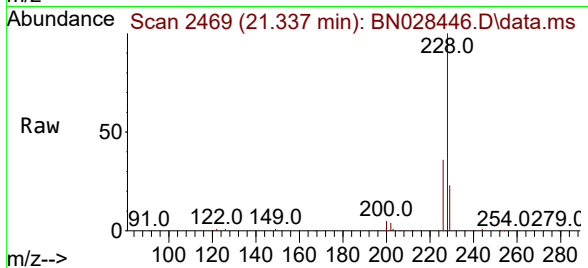
Tgt Ion:228 Resp:13001728

Ion Ratio Lower Upper

228 100

226 36.0 21.8 32.8#

229 23.1 15.5 23.3



#33

Chrysene

Concen: 95.151 ng

RT: 21.391 min Scan# 2475

Delta R.T. 0.028 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

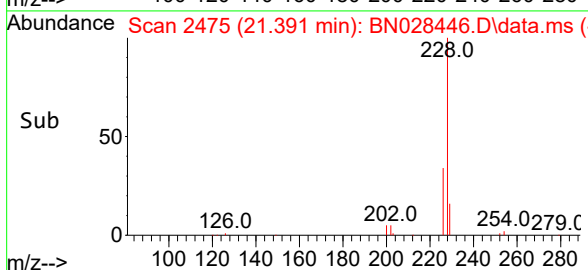
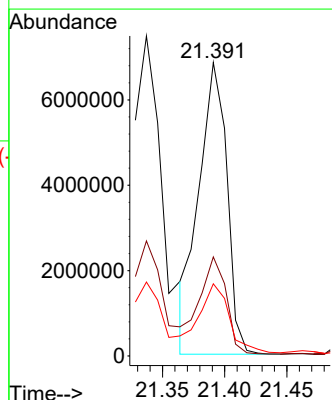
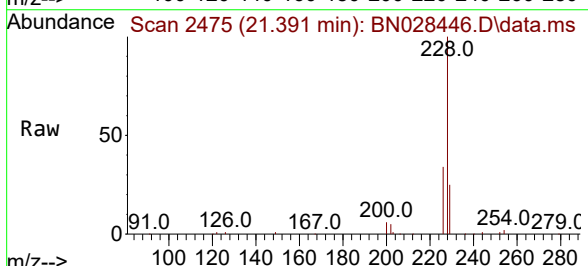
Tgt Ion:228 Resp:10715798

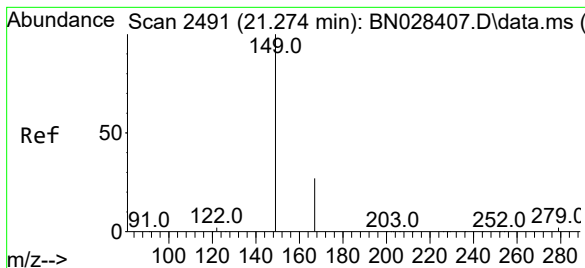
Ion Ratio Lower Upper

228 100

226 33.8 24.6 36.8

229 24.6 15.7 23.5#

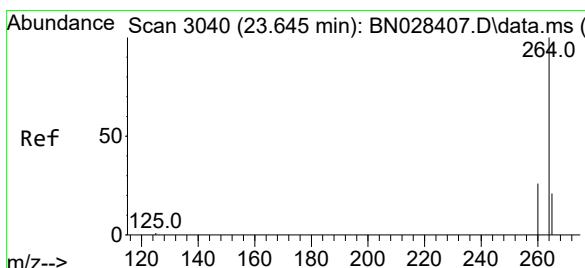
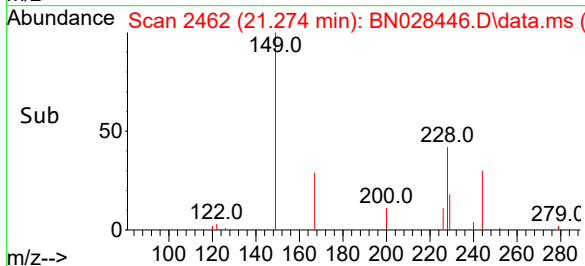
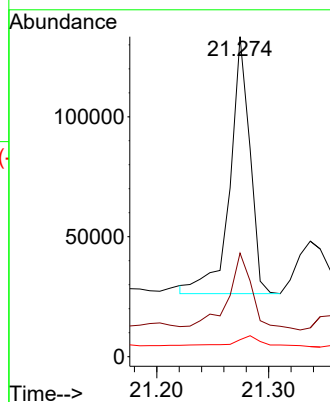
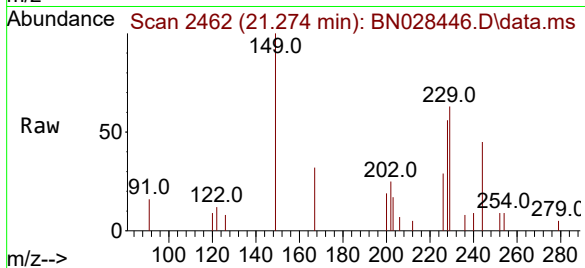




#34
Bis(2-ethylhexyl)phthalate
Concen: 2.258 ng
RT: 21.274 min Scan# 2491
Delta R.T. 0.000 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

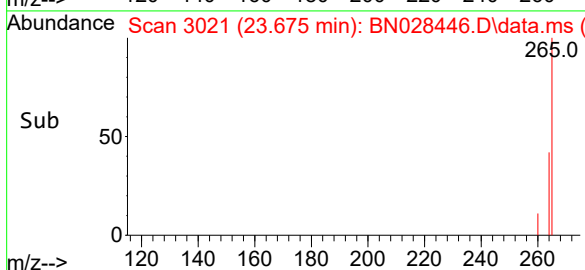
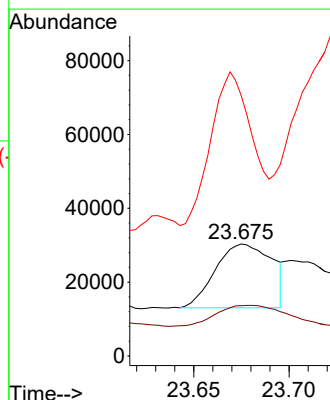
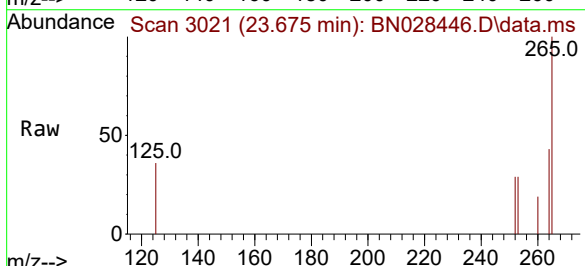
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

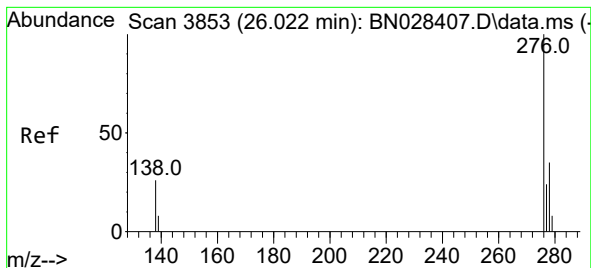
Tgt Ion:149 Resp: 131987
Ion Ratio Lower Upper
149 100
167 37.7 21.4 32.0#
279 7.4 2.3 3.5#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.675 min Scan# 3021
Delta R.T. 0.030 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:264 Resp: 35786
Ion Ratio Lower Upper
264 100
260 44.8 20.8 31.2#
265 232.4 21.7 32.5#





#36

Indeno(1,2,3-cd)pyrene

Concen: 55.929 ng

RT: 26.110 min Scan# 31

Delta R.T. 0.088 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

Instrument :

BNA_N

ClientSampleId :

Z-7(0-5)

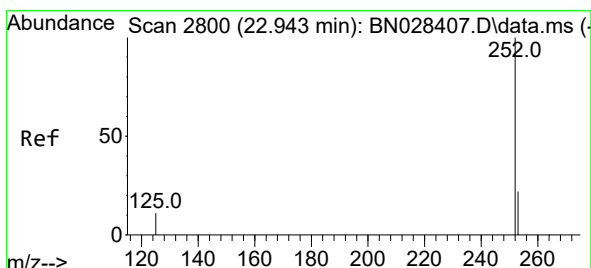
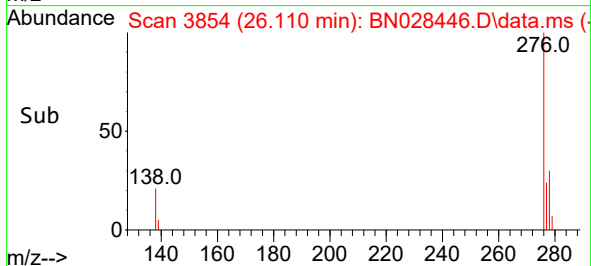
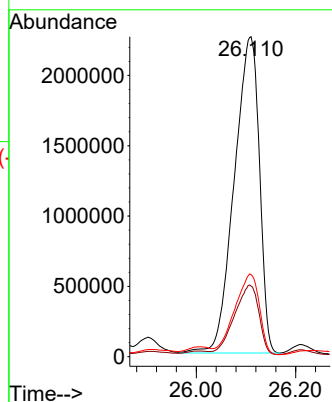
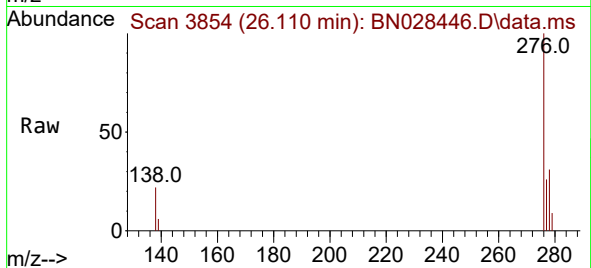
Tgt Ion:276 Resp: 7891800

Ion Ratio Lower Upper

276 100

138 21.4 24.1 36.1#

277 25.1 19.7 29.5



#37

Benzo(b)fluoranthene

Concen: 100.408 ng

RT: 22.994 min Scan# 2788

Delta R.T. 0.051 min

Lab File: BN028446.D

Acq: 03 Nov 2023 06:32

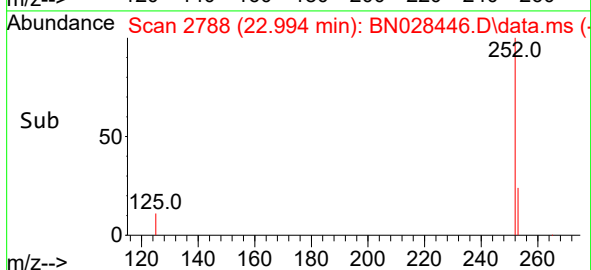
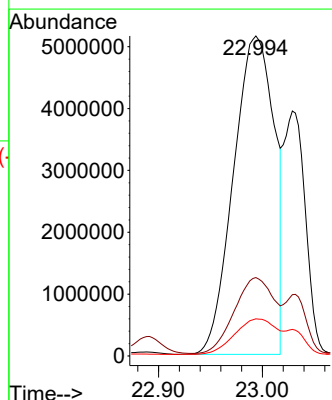
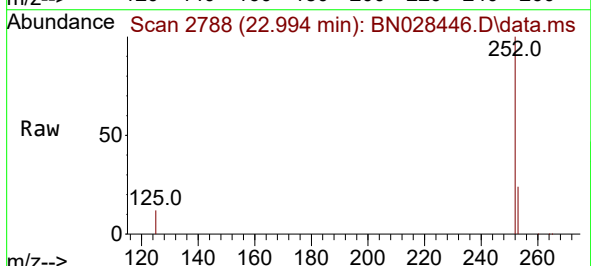
Tgt Ion:252 Resp:13996772

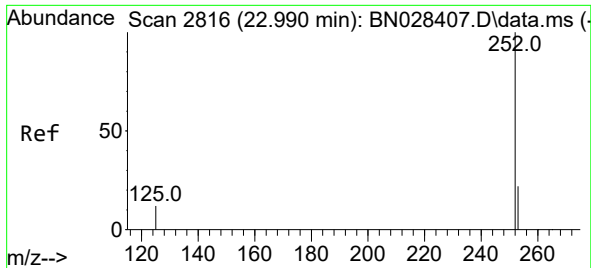
Ion Ratio Lower Upper

252 100

253 24.5 18.2 27.4

125 11.6 10.0 15.0

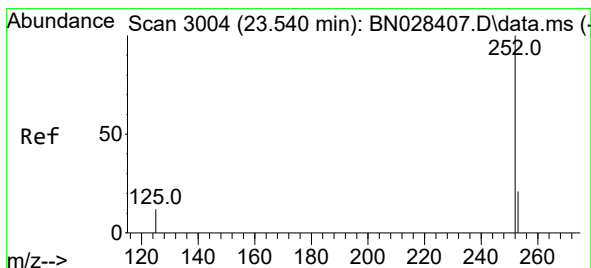
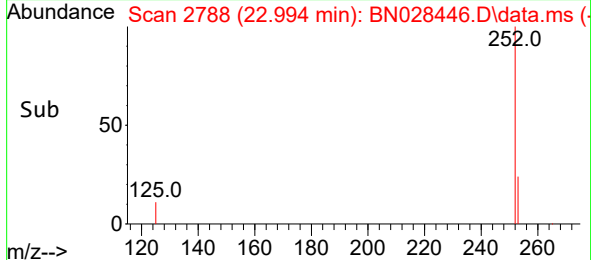
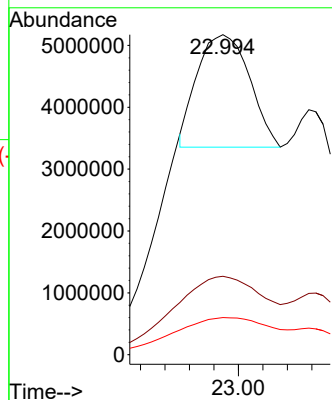
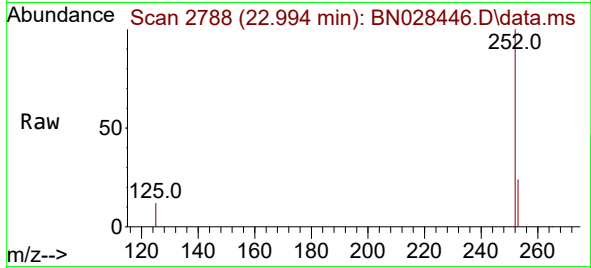




#38
Benzo(k)fluoranthene
Concen: 19.222 ng
RT: 22.994 min Scan# 21
Delta R.T. 0.004 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

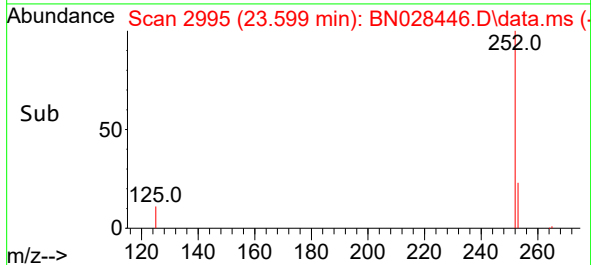
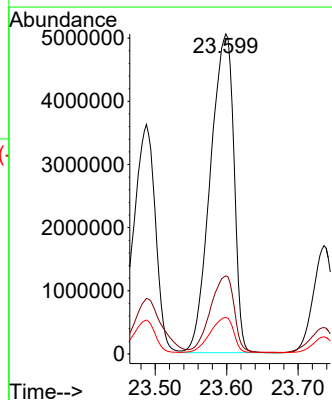
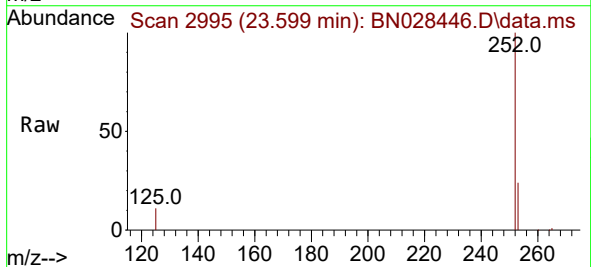
Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

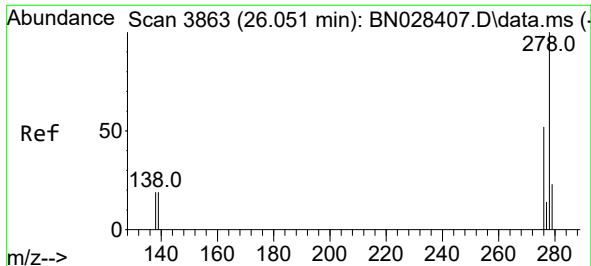
Tgt Ion:252 Resp: 2693236
Ion Ratio Lower Upper
252 100
253 24.5 18.1 27.1
125 11.6 10.2 15.2



#39
Benzo(a)pyrene
Concen: 94.465 ng
RT: 23.599 min Scan# 2995
Delta R.T. 0.059 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:252 Resp:11510759
Ion Ratio Lower Upper
252 100
253 24.4 17.9 26.9
125 11.4 11.0 16.6

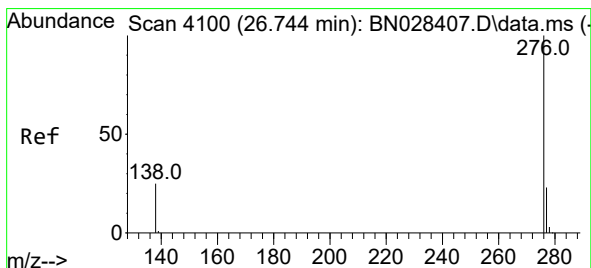
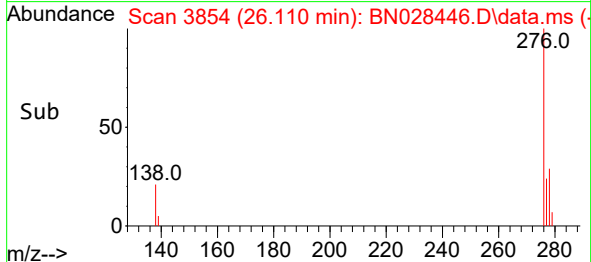
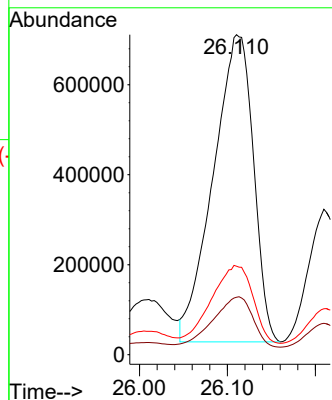
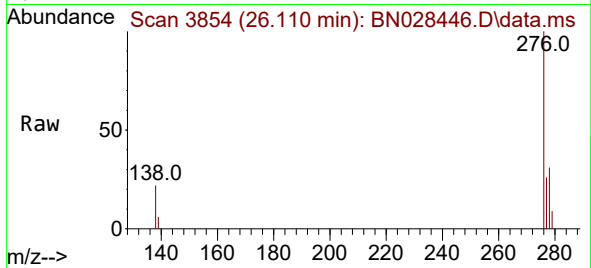




#40
Dibenzo(a,h)anthracene
Concen: 18.942 ng
RT: 26.110 min Scan# 3854
Delta R.T. 0.059 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Instrument :
BNA_N
ClientSampleId :
Z-7(0-5)

Tgt Ion:278 Resp: 2167538
Ion Ratio Lower Upper
278 100
139 17.9 15.8 23.8
279 27.7 19.7 29.5



#41
Benzo(g,h,i)perylene
Concen: 60.253 ng
RT: 26.853 min Scan# 4108
Delta R.T. 0.109 min
Lab File: BN028446.D
Acq: 03 Nov 2023 06:32

Tgt Ion:276 Resp: 7383983
Ion Ratio Lower Upper
276 100
277 25.0 19.0 28.4
138 22.1 21.1 31.7

