

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028216.D
 Acq On : 11 Oct 2023 03:34
 Operator : MA/JU
 Sample : 04704-04
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 R-3(10-15)

Quant Time: Oct 11 04:42:29 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)

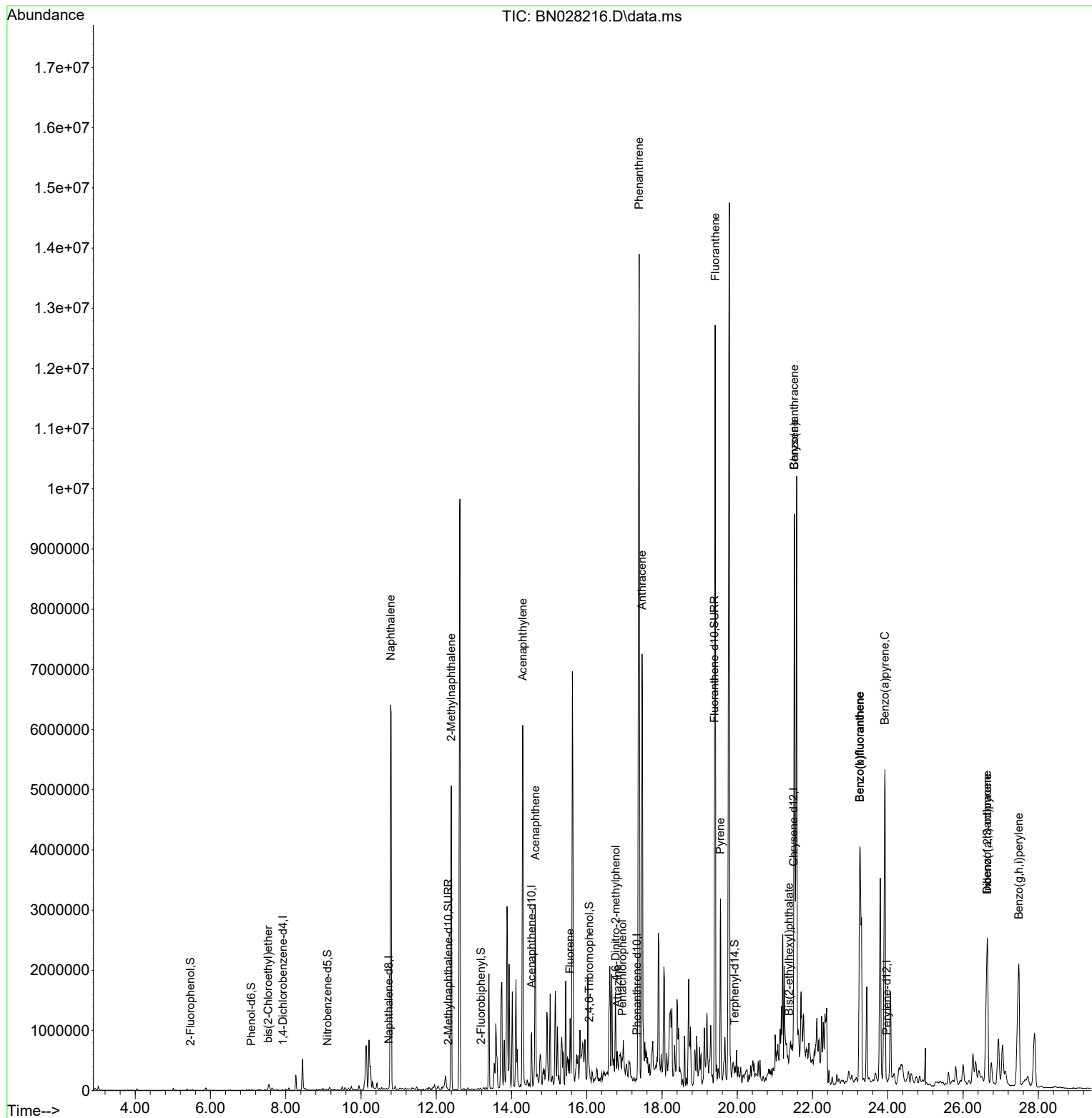
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	4050	0.400	ng	# 0.00
7) Naphthalene-d8	10.735	136	12760	0.400	ng	# 0.00
13) Acenaphthene-d10	14.534	164	37467	0.400	ng	#-0.03
19) Phenanthrene-d10	17.331	188	13703	0.400	ng	# 0.01
29) Chrysene-d12	21.497	240	72172	0.400	ng	#-0.02
35) Perylene-d12	23.972	264	11127	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	3235	0.268	ng	0.00
5) Phenol-d6	7.084	99	3217	0.211	ng	0.00
8) Nitrobenzene-d5	9.112	82	3072	0.283	ng	-0.01
11) 2-Methylnaphthalene-d10	12.321	152	4394	0.232	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	691	0.040	ng	-0.01
15) 2-Fluorobiphenyl	13.187	172	6896	0.051	ng	0.00
27) Fluoranthene-d10	19.393	212	35442	1.030	ng	0.04
31) Terphenyl-d14	19.932	244	16637	0.099	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.532	93	2307	0.188	ng	# 25
9) Naphthalene	10.789	128	9341694	283.345	ng	100
12) 2-Methylnaphthalene	12.400	142	3669650	159.112	ng	99
16) Acenaphthylene	14.298	152	7062951	42.554	ng	# 97
17) Acenaphthene	14.630	154	1443394	13.642	ng	95
18) Fluorene	15.556	166	644781	4.692	ng	# 70
20) 4,6-Dinitro-2-methylph...	16.772	198	20510	112.609	ng	# 10
23) Atrazine	16.810	200	918	0.147	ng	# 1
24) Pentachlorophenol	16.946	266	142	0.040	ng	# 16
25) Phenanthrene	17.393	178	19741319	534.374	ng	95
26) Anthracene	17.468	178	8432876	241.501	ng	# 88
28) Fluoranthene	19.411	202	13469205	315.919	ng	96
30) Pyrene	19.551	202	2471067	9.337	ng	99
32) Benzo(a)anthracene	21.515	228	9845679	40.090	ng	# 90
33) Chrysene	21.515	228	6222351	26.291	ng	94
34) Bis(2-ethylhexyl)phtha...	21.372	149	14360	0.089	ng	# 86
36) Indeno(1,2,3-cd)pyrene	26.644	276	4695842	125.465	ng	97
37) Benzo(b)fluoranthene	23.259	252	8722291	242.715	ng	# 91
38) Benzo(k)fluoranthene	23.259	252	7682150	210.761	ng	# 90
39) Benzo(a)pyrene	23.923	252	9584812	282.069	ng	# 85
40) Dibenzo(a,h)anthracene	26.642	278	1495300	48.838	ng	99
41) Benzo(g,h,i)perylene	27.481	276	5290765	168.351	ng	96

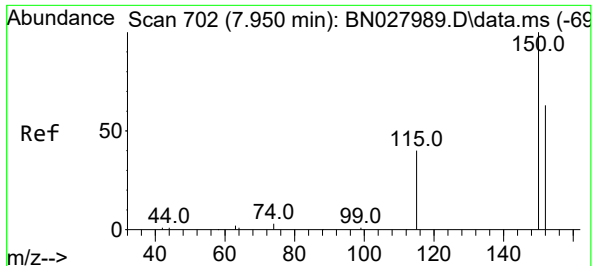
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 10 00:42:22 2023
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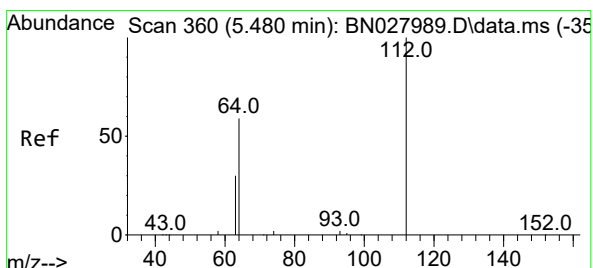
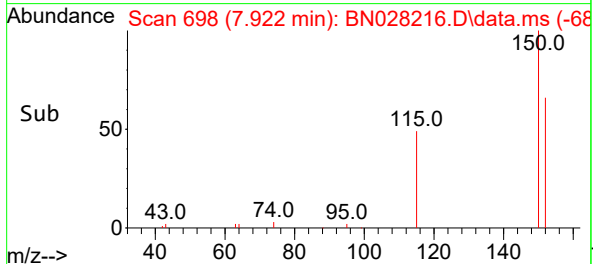
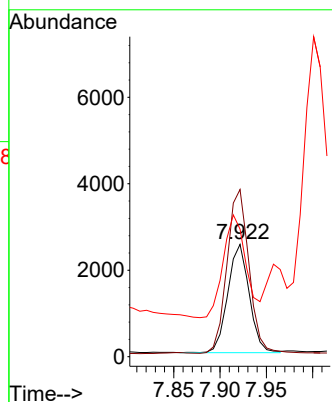
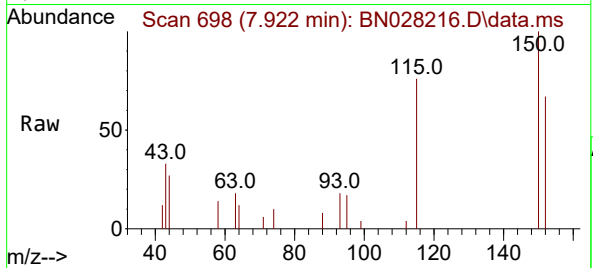




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.922 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

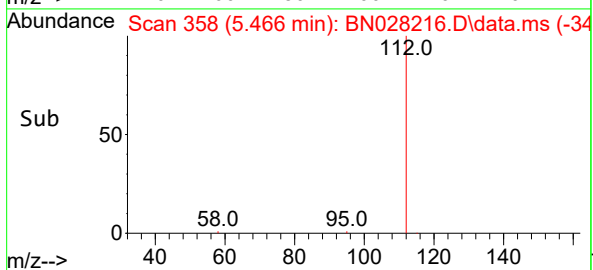
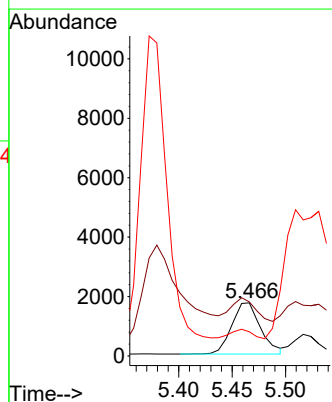
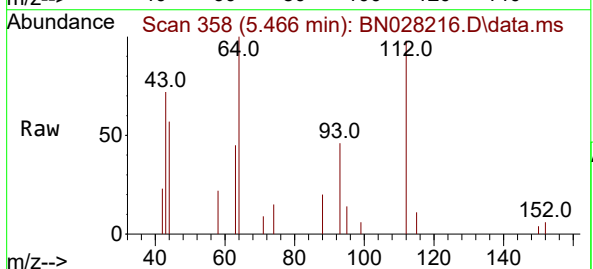
Instrument :
 BNA_N
 ClientSampleId :
 R-3(10-15)

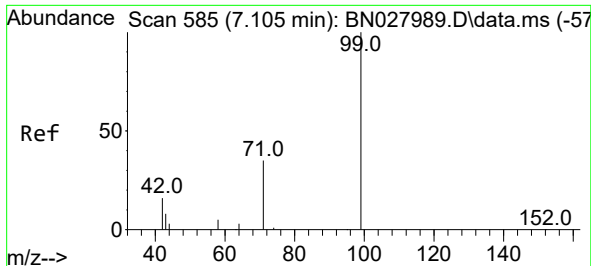
Tgt Ion:152 Resp: 4050
 Ion Ratio Lower Upper
 152 100
 150 148.8 125.6 188.4
 115 113.5 54.8 82.2#



#4
 2-Fluorophenol
 Concen: 0.268 ng
 RT: 5.466 min Scan# 358
 Delta R.T. -0.000 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Tgt Ion:112 Resp: 3235
 Ion Ratio Lower Upper
 112 100
 64 38.1 45.0 67.6#
 63 15.9 23.4 35.0#

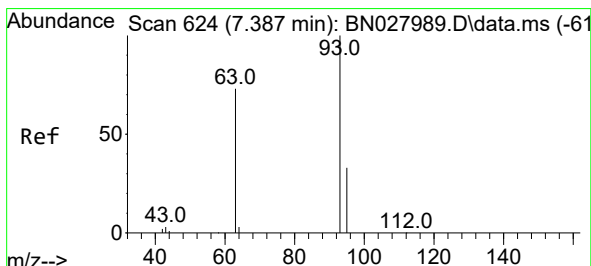
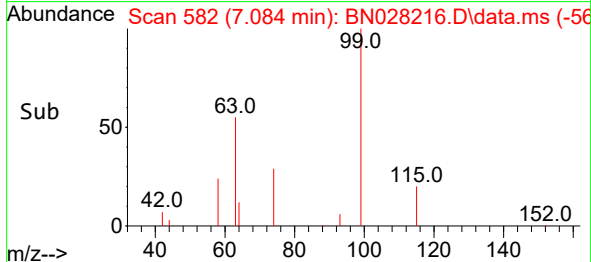
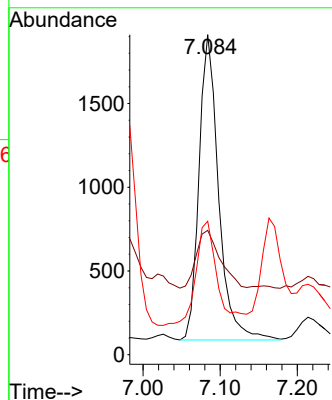
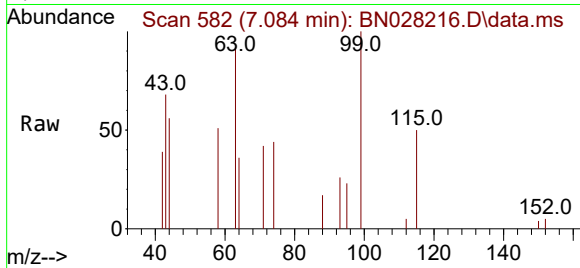




#5
Phenol-d6
Concen: 0.211 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.007 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

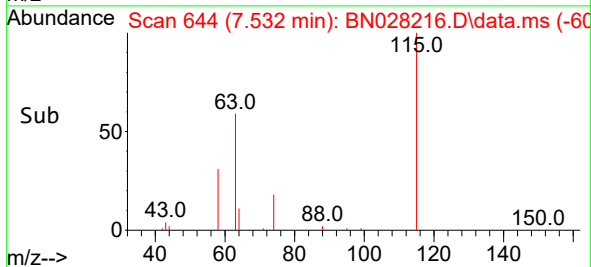
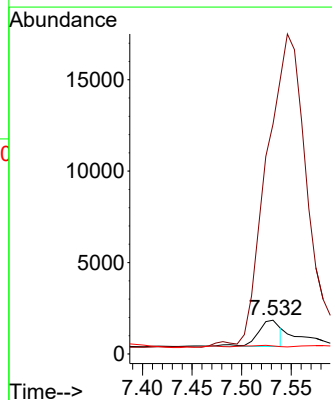
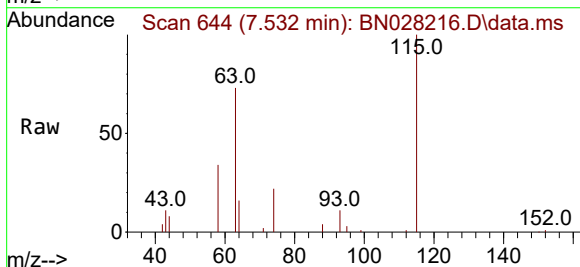
Instrument :
BNA_N
ClientSampleId :
R-3(10-15)

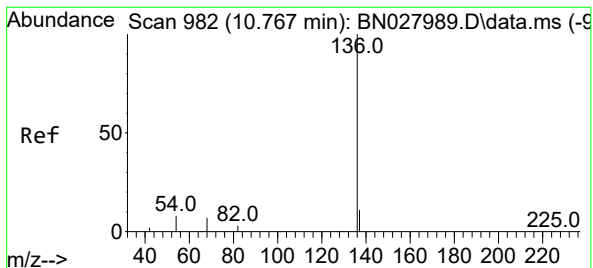
Tgt Ion: 99 Resp: 3217
Ion Ratio Lower Upper
99 100
42 22.9 14.6 22.0#
71 38.0 28.3 42.5



#6
bis(2-Chloroethyl)ether
Concen: 0.188 ng
RT: 7.532 min Scan# 644
Delta R.T. 0.166 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

Tgt Ion: 93 Resp: 2307
Ion Ratio Lower Upper
93 100
63 0.0 58.8 88.2#
95 5.6 26.6 39.8#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.735 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

Tgt Ion:136 Resp: 12760

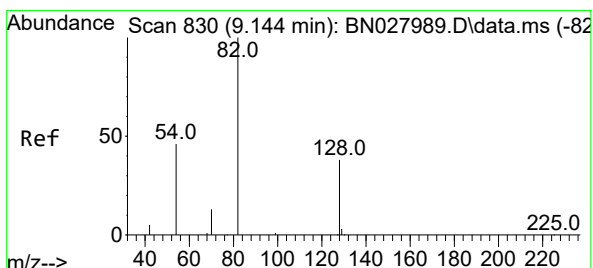
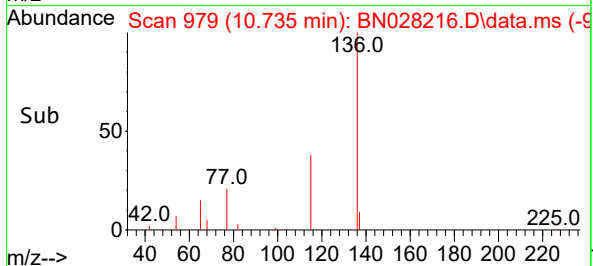
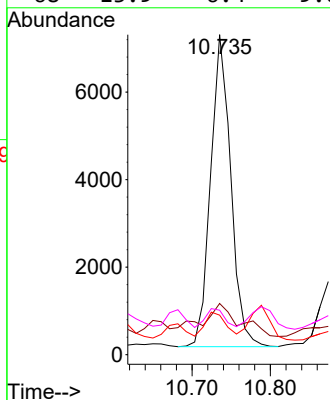
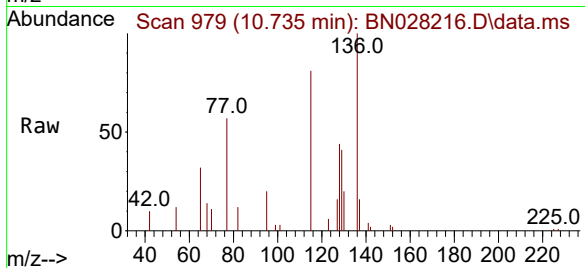
Ion Ratio Lower Upper

136 100

137 16.0 9.4 14.0#

54 12.3 7.0 10.6#

68 13.9 6.4 9.6#



#8

Nitrobenzene-d5

Concen: 0.283 ng

RT: 9.112 min Scan# 827

Delta R.T. -0.011 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

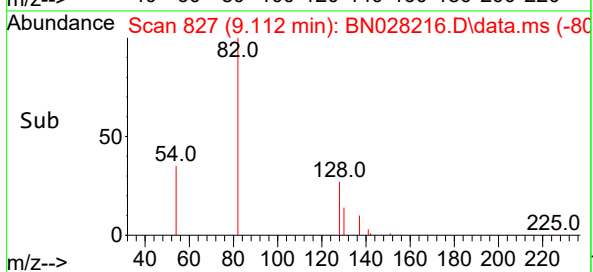
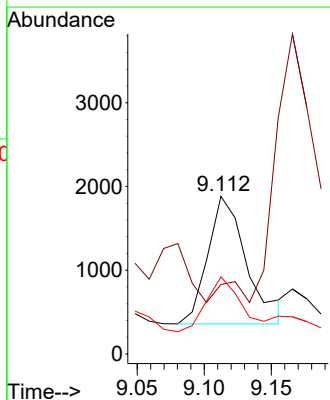
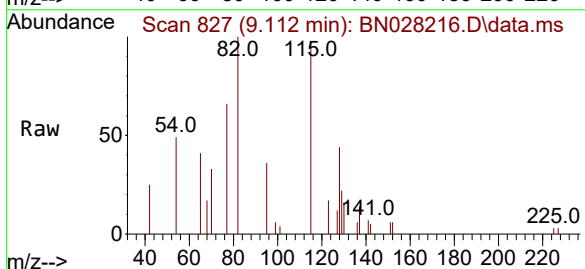
Tgt Ion: 82 Resp: 3072

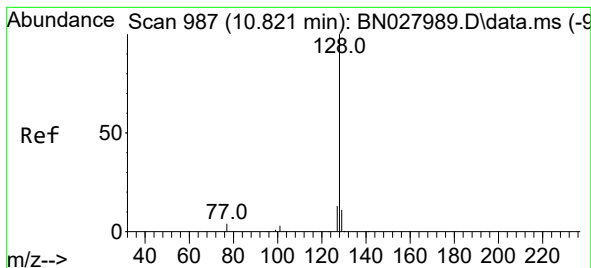
Ion Ratio Lower Upper

82 100

128 44.0 32.7 49.1

54 48.9 38.7 58.1





#9

Naphthalene

Concen: 283.345 ng

RT: 10.789 min Scan# 9

Delta R.T. -0.000 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

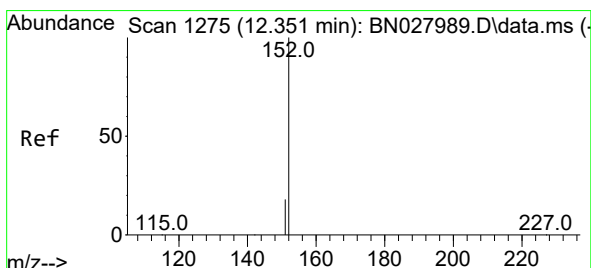
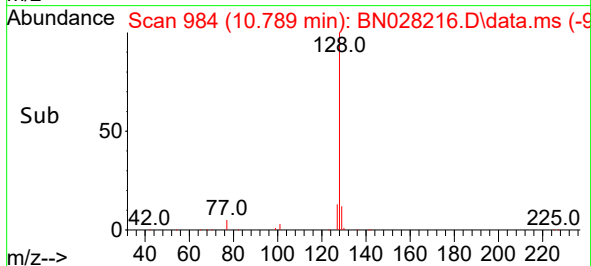
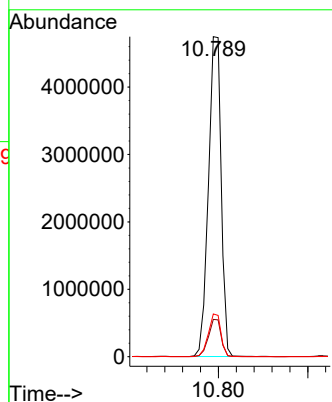
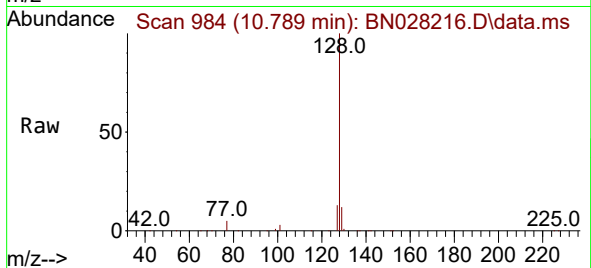
Tgt Ion:128 Resp: 9341694

Ion Ratio Lower Upper

128 100

129 11.6 9.4 14.2

127 13.4 10.9 16.3



#11

2-Methylnaphthalene-d10

Concen: 0.232 ng

RT: 12.321 min Scan# 1267

Delta R.T. -0.004 min

Lab File: BN028216.D

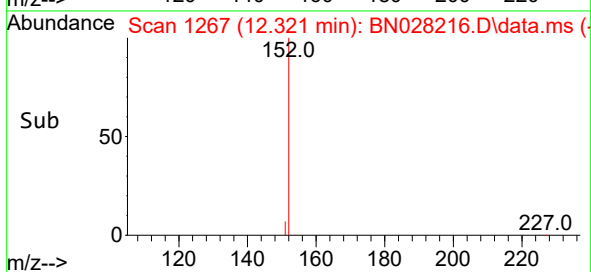
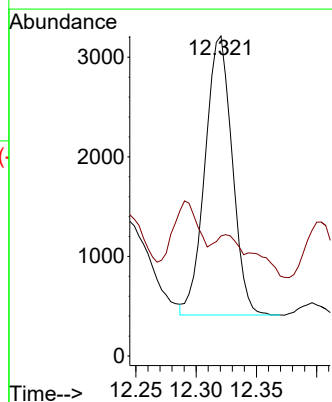
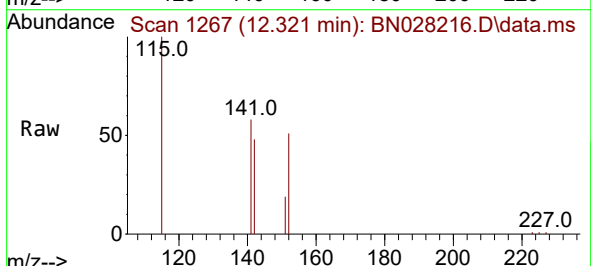
Acq: 11 Oct 2023 03:34

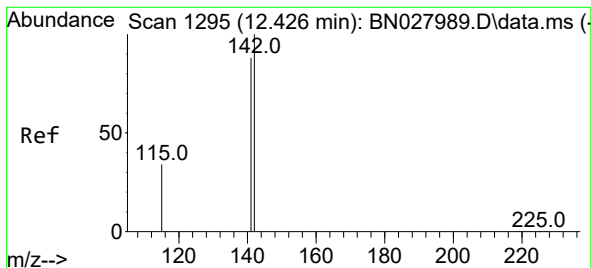
Tgt Ion:152 Resp: 4394

Ion Ratio Lower Upper

152 100

151 0.0 16.5 24.7#





#12

2-Methylnaphthalene

Concen: 159.112 ng

RT: 12.400 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

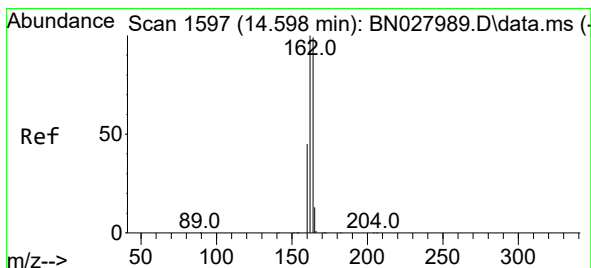
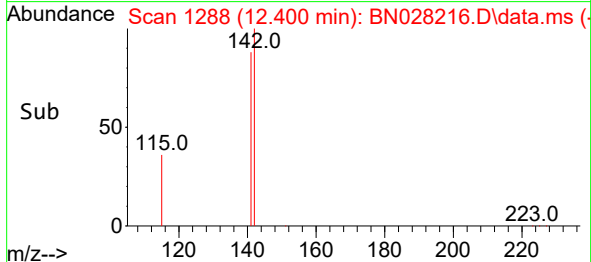
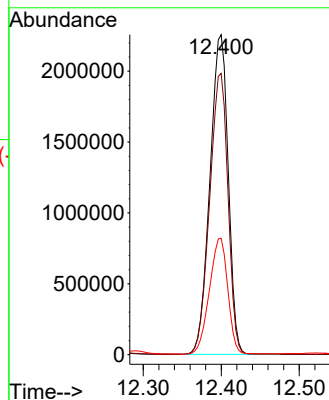
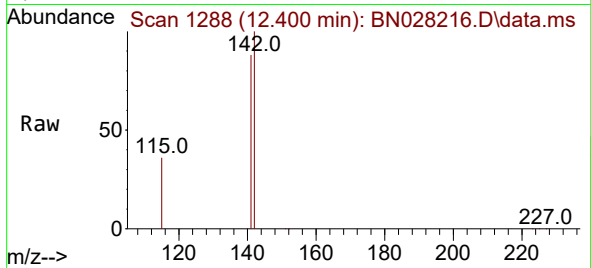
Tgt Ion:142 Resp: 3669650

Ion Ratio Lower Upper

142 100

141 87.9 70.7 106.1

115 36.4 28.6 42.8



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.534 min Scan# 1591

Delta R.T. -0.032 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

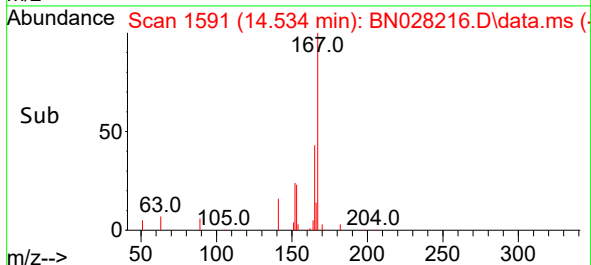
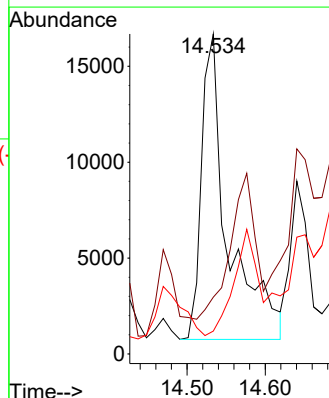
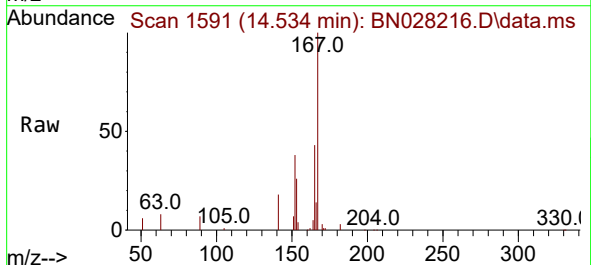
Tgt Ion:164 Resp: 37467

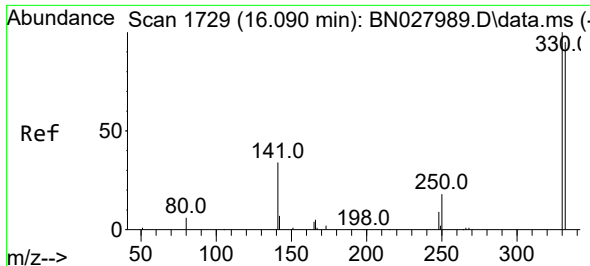
Ion Ratio Lower Upper

164 100

162 17.8 80.8 121.2#

160 7.2 36.4 54.6#

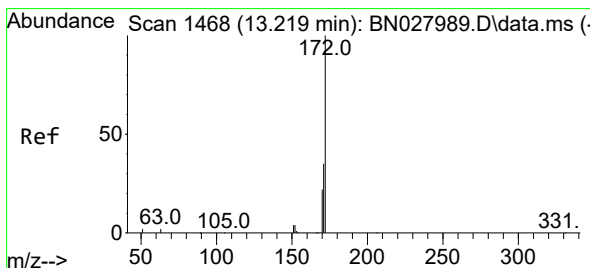
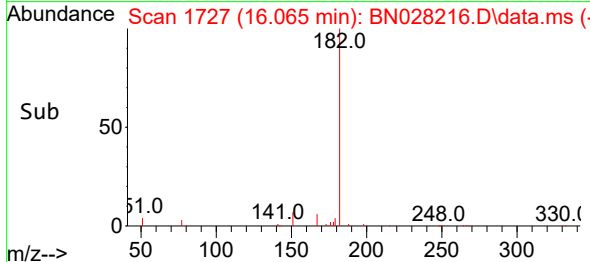
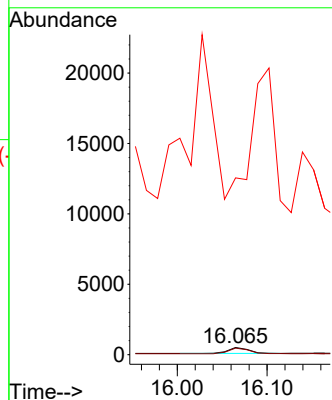
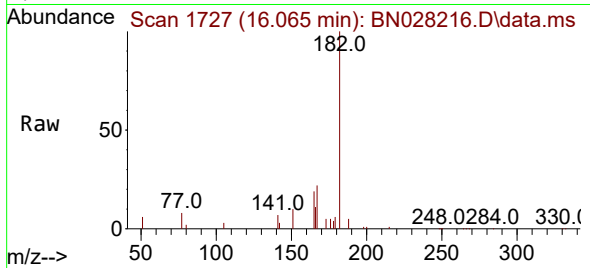




#14
2,4,6-Tribromophenol
Concen: 0.040 ng
RT: 16.065 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

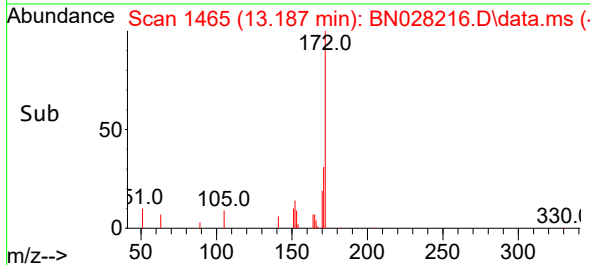
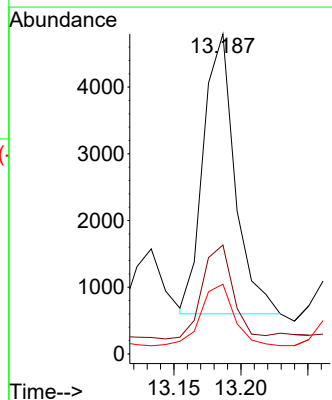
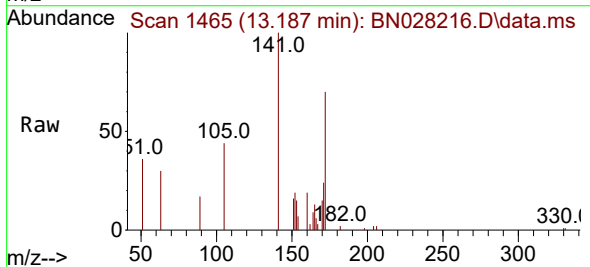
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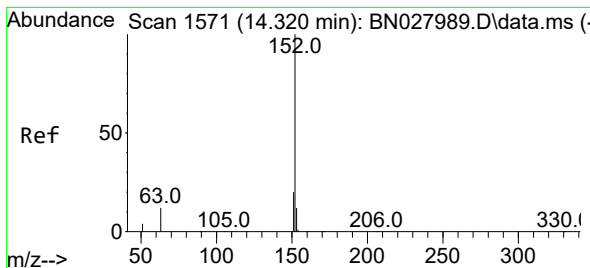
Tgt Ion:330 Resp: 691
Ion Ratio Lower Upper
330 100
332 94.2 78.1 117.1
141 0.0 33.4 50.2#



#15
2-Fluorobiphenyl
Concen: 0.051 ng
RT: 13.187 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

Tgt Ion:172 Resp: 6896
Ion Ratio Lower Upper
172 100
171 34.1 28.1 42.1
170 21.8 18.4 27.6





#16

Acenaphthylene

Concen: 42.554 ng

RT: 14.298 min Scan# 1569

Delta R.T. -0.000 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

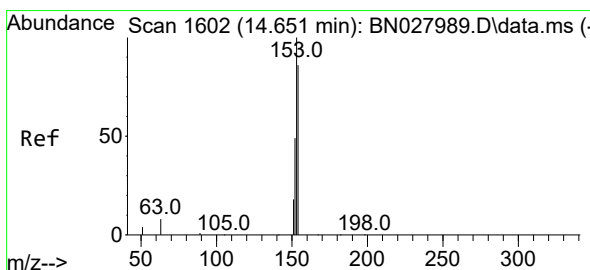
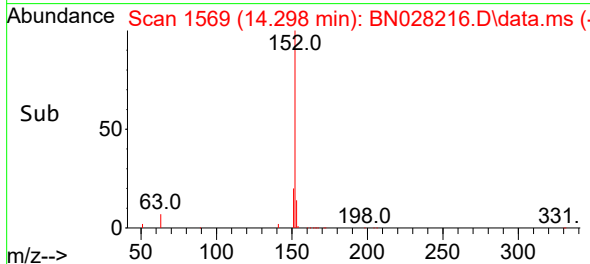
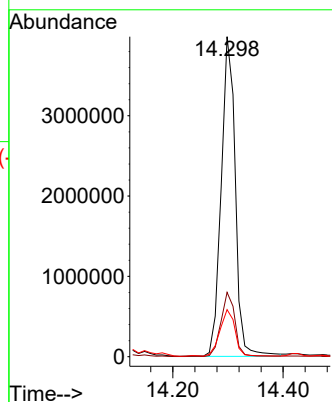
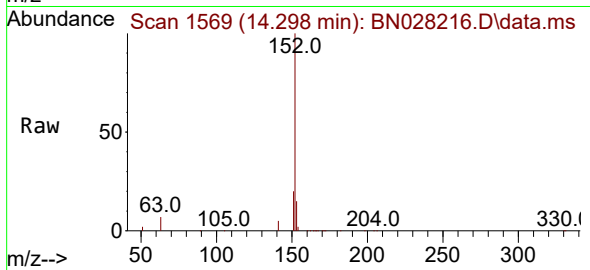
Tgt Ion:152 Resp: 7062951

Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.6

153 15.7 10.2 15.4#



#17

Acenaphthene

Concen: 13.642 ng

RT: 14.630 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

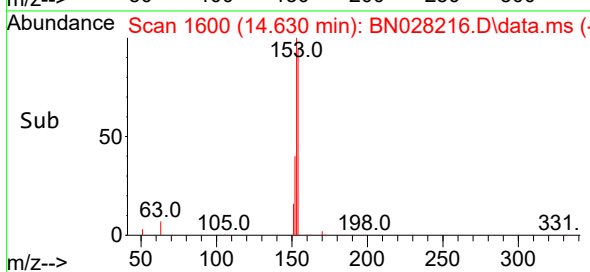
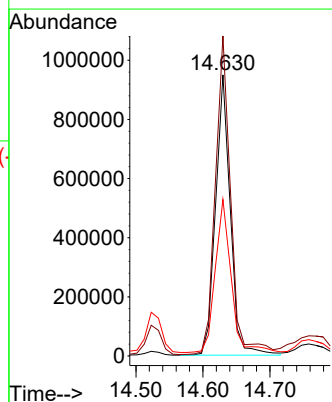
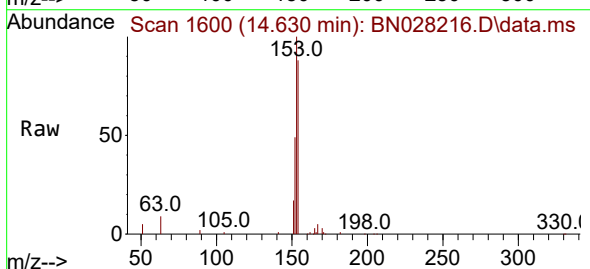
Tgt Ion:154 Resp: 1443394

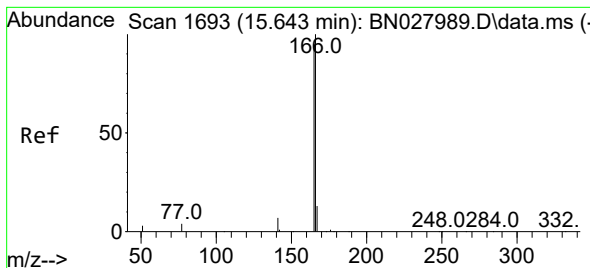
Ion Ratio Lower Upper

154 100

153 117.9 90.8 136.2

152 58.7 43.9 65.9





#18

Fluorene

Concen: 4.692 ng

RT: 15.556 min Scan# 1

Delta R.T. -0.062 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

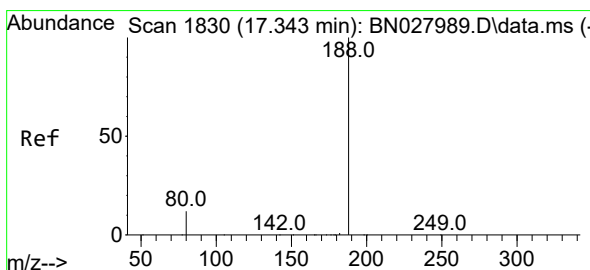
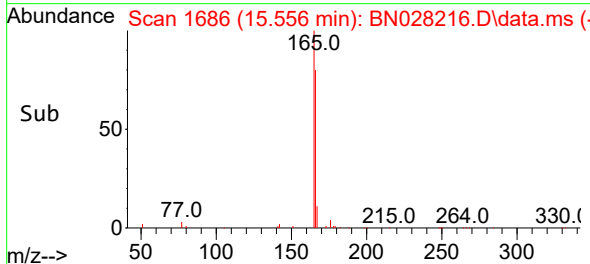
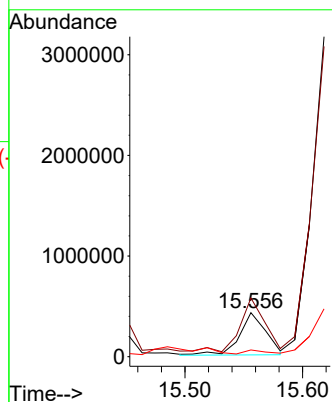
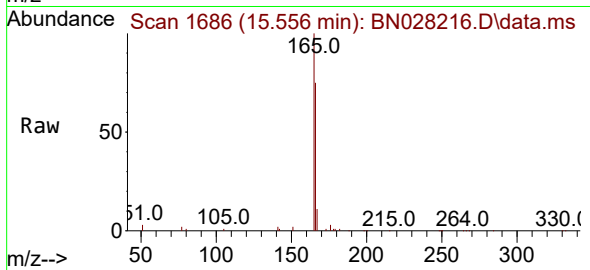
Tgt Ion:166 Resp: 644781

Ion Ratio Lower Upper

166 100

165 130.9 77.8 116.8#

167 12.7 10.7 16.1



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.331 min Scan# 1829

Delta R.T. 0.012 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

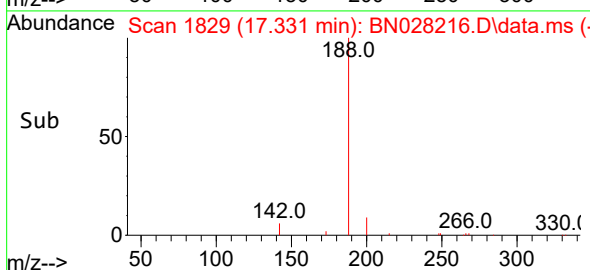
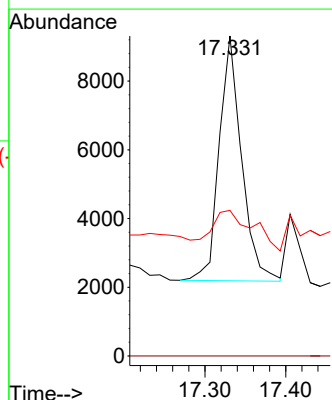
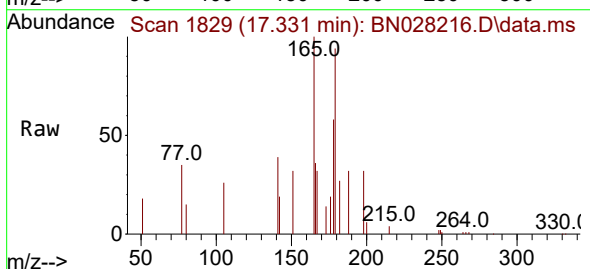
Tgt Ion:188 Resp: 13703

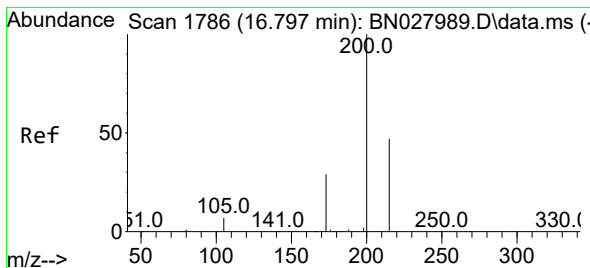
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 45.5 10.2 15.4#

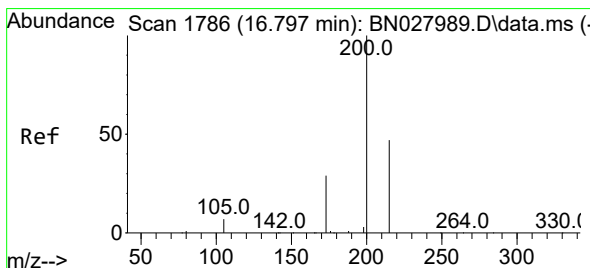
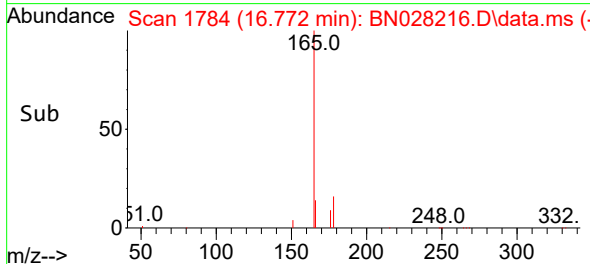
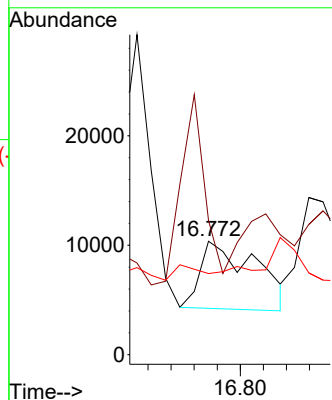
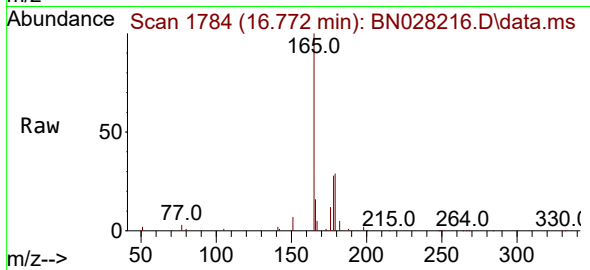




#20
4,6-Dinitro-2-methylphenol
Concen: 112.609 ng
RT: 16.772 min Scan# 1786
Delta R.T. -0.012 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

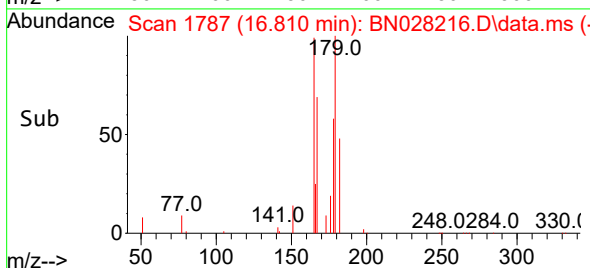
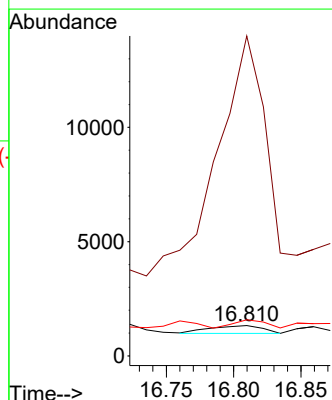
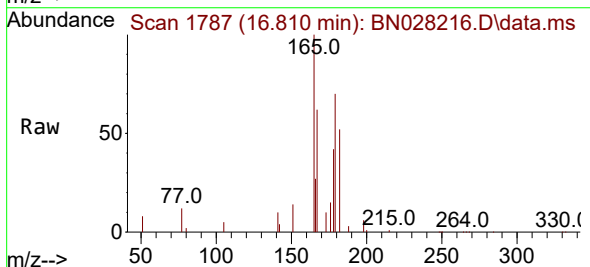
Instrument :
BNA_N
ClientSampleId :
R-3(10-15)

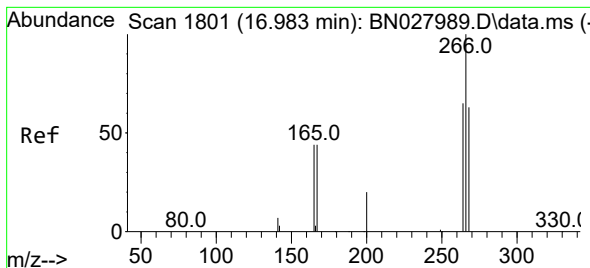
Tgt Ion:198 Resp: 20510
Ion Ratio Lower Upper
198 100
51 118.3 180.7 271.1#
105 71.5 222.2 333.2#



#23
Atrazine
Concen: 0.147 ng
RT: 16.810 min Scan# 1787
Delta R.T. 0.025 min
Lab File: BN028216.D
Acq: 11 Oct 2023 03:34

Tgt Ion:200 Resp: 918
Ion Ratio Lower Upper
200 100
173 1054.2 24.7 37.1#
215 119.1 39.0 58.6#





#24

Pentachlorophenol

Concen: 0.040 ng

RT: 16.946 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

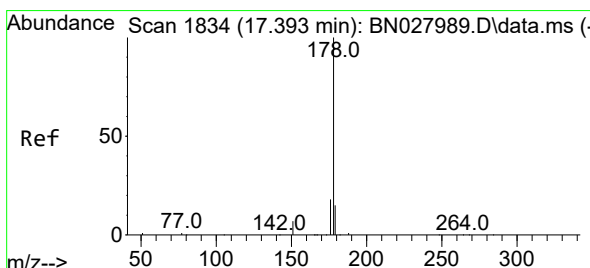
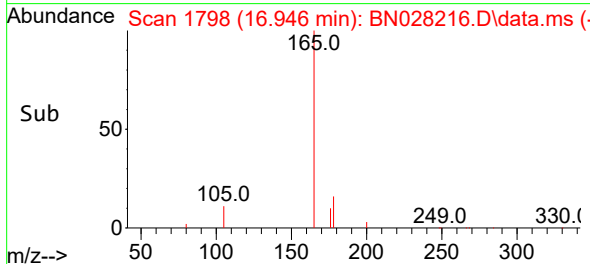
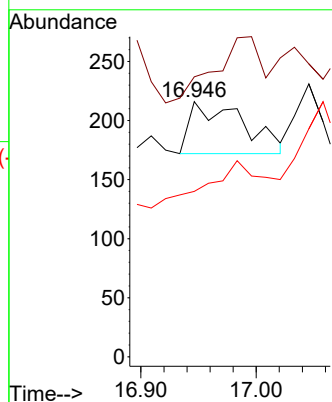
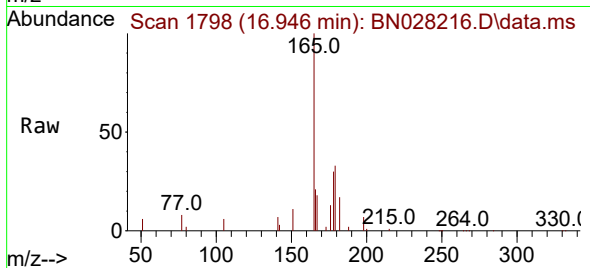
Tgt Ion:266 Resp: 142

Ion Ratio Lower Upper

266 100

264 0.0 52.7 79.1#

268 0.0 56.2 84.2#



#25

Phenanthrene

Concen: 534.374 ng

RT: 17.393 min Scan# 1834

Delta R.T. 0.025 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

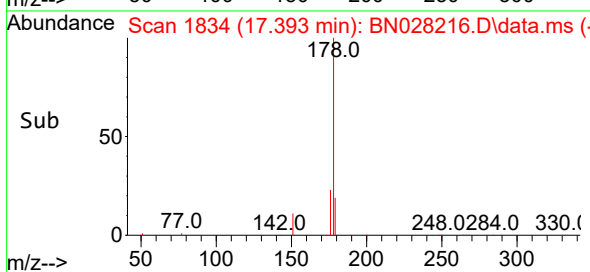
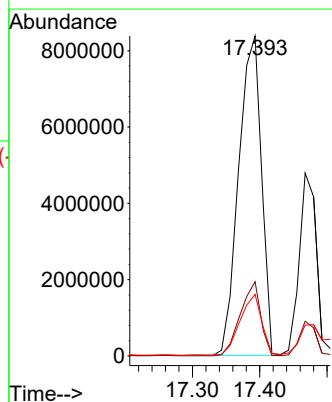
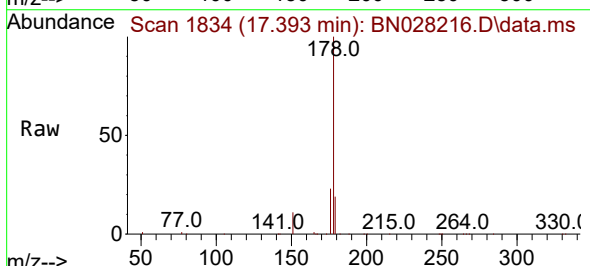
Tgt Ion:178 Resp:19741319

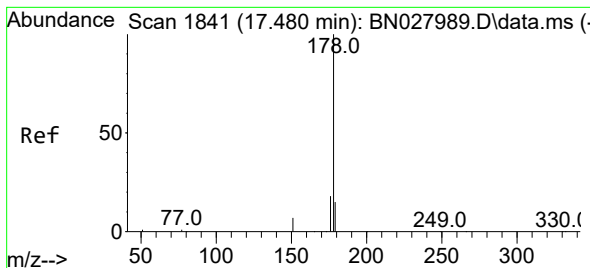
Ion Ratio Lower Upper

178 100

176 20.6 15.3 22.9

179 18.3 12.4 18.6





#26

Anthracene

Concen: 241.501 ng

RT: 17.468 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

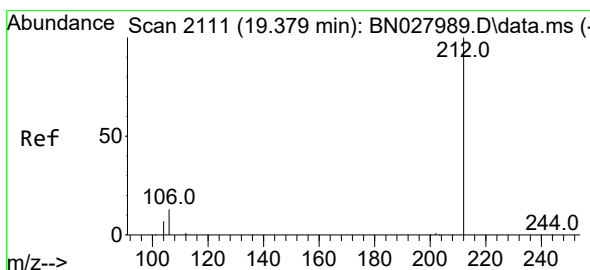
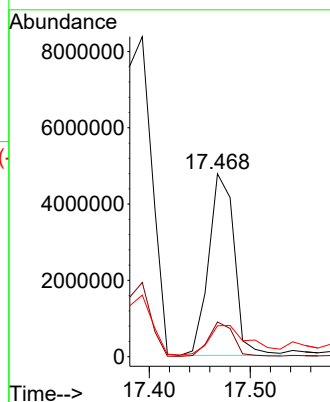
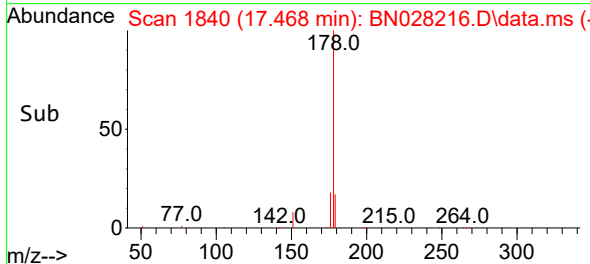
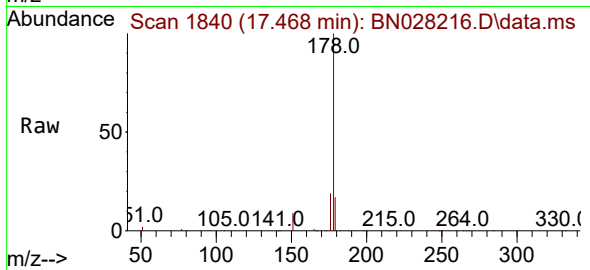
Tgt Ion:178 Resp: 8432876

Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 26.0 12.2 18.2#



#27

Fluoranthene-d10

Concen: 1.030 ng

RT: 19.393 min Scan# 2114

Delta R.T. 0.037 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

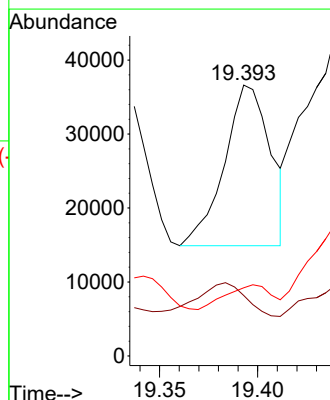
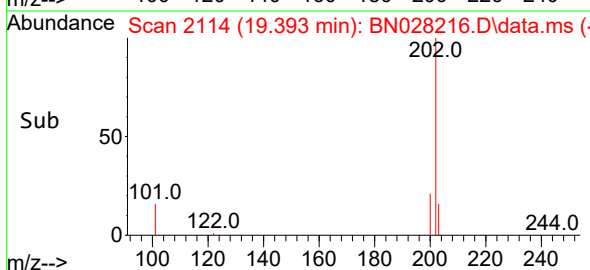
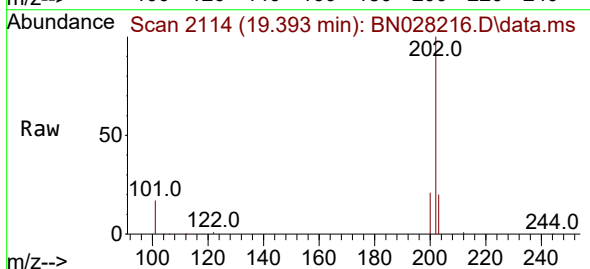
Tgt Ion:212 Resp: 35442

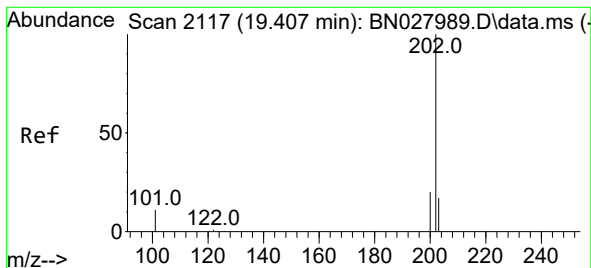
Ion Ratio Lower Upper

212 100

106 22.7 11.3 16.9#

104 15.1 6.4 9.6#





#28

Fluoranthene

Concen: 315.919 ng

RT: 19.411 min Scan# 2118

Delta R.T. 0.028 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

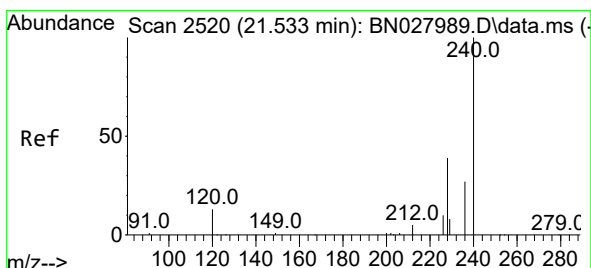
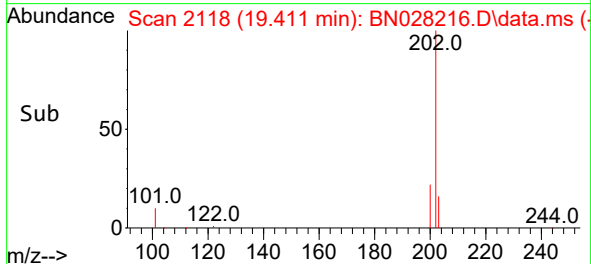
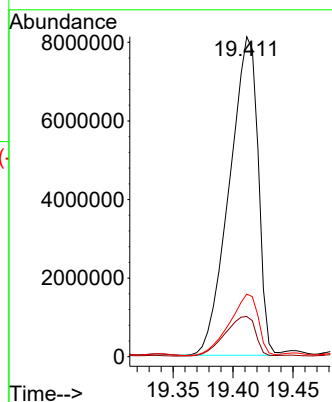
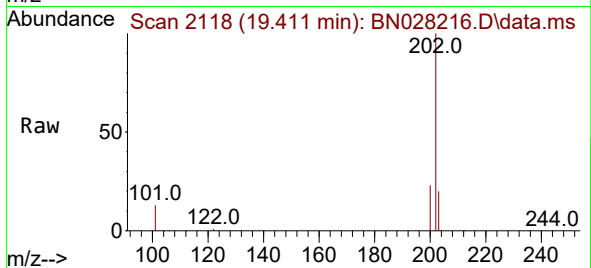
Tgt Ion:202 Resp:13469205

Ion Ratio Lower Upper

202 100

101 13.3 9.8 14.6

203 19.3 13.8 20.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.497 min Scan# 2516

Delta R.T. -0.018 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

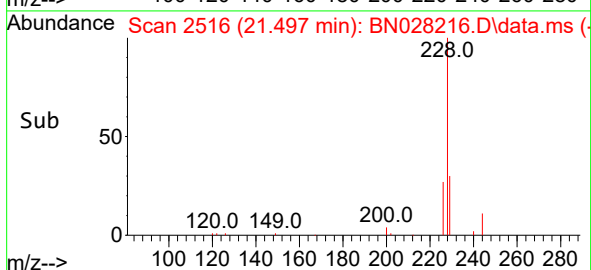
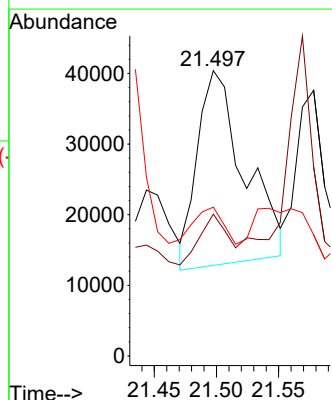
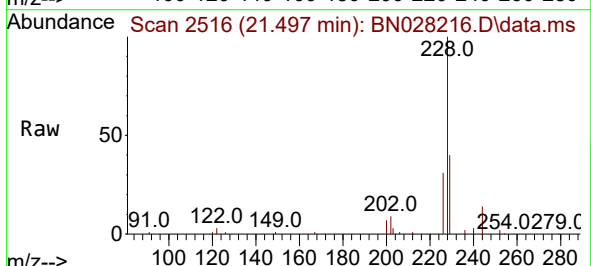
Tgt Ion:240 Resp: 72172

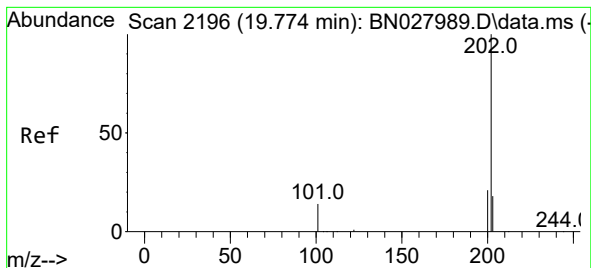
Ion Ratio Lower Upper

240 100

120 49.7 13.8 20.6#

236 52.2 22.6 33.8#





#30

Pyrene

Concen: 9.337 ng

RT: 19.551 min Scan# 21

Delta R.T. -0.200 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

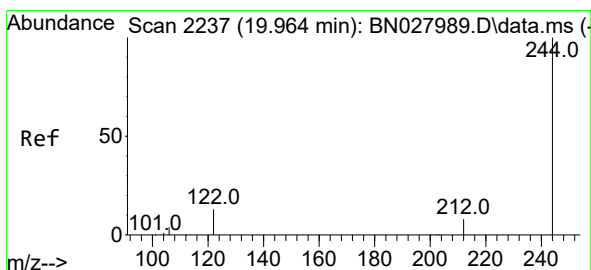
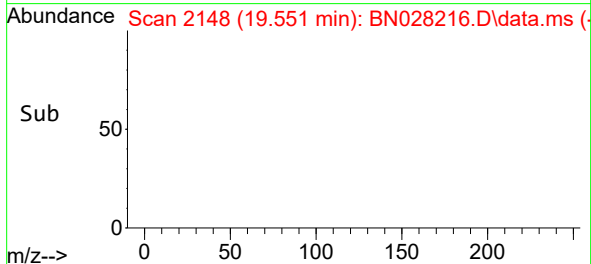
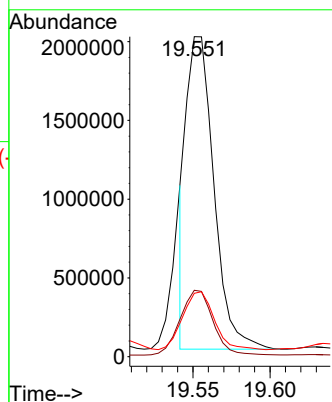
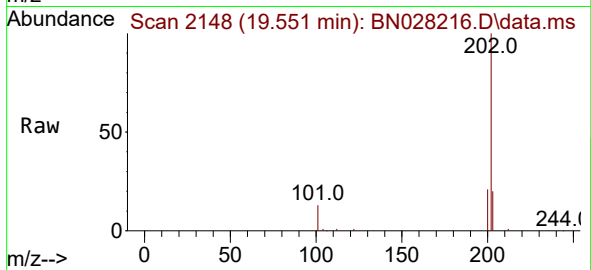
Tgt Ion:202 Resp: 2471067

Ion Ratio Lower Upper

202 100

200 19.9 16.5 24.7

203 18.2 14.7 22.1



#31

Terphenyl-d14

Concen: 0.099 ng

RT: 19.932 min Scan# 2230

Delta R.T. -0.009 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

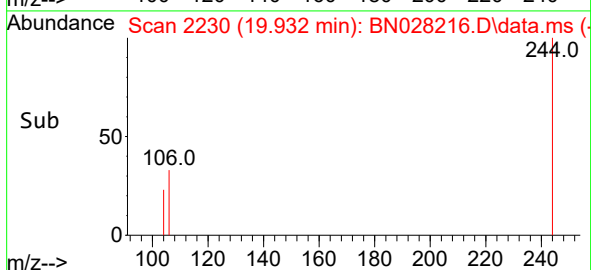
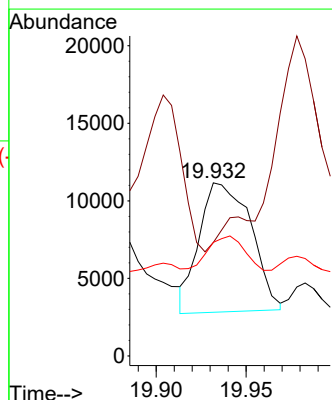
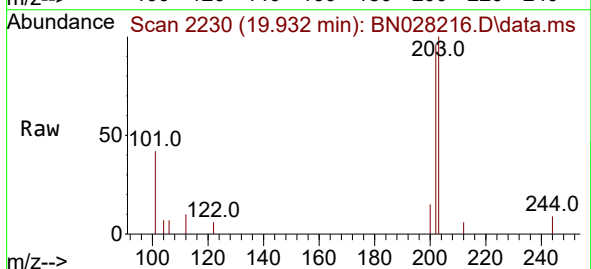
Tgt Ion:244 Resp: 16637

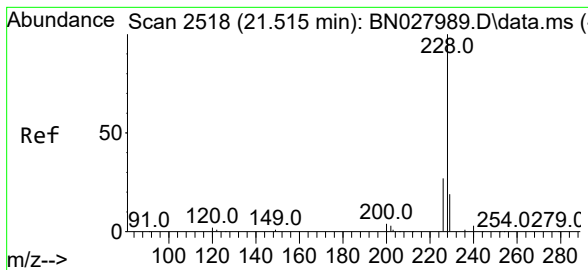
Ion Ratio Lower Upper

244 100

212 65.6 6.6 9.8#

122 65.7 11.4 17.0#





#32

Benzo(a)anthracene

Concen: 40.090 ng

RT: 21.515 min Scan# 2518

Delta R.T. 0.018 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BNA_N

ClientSampleId :

R-3(10-15)

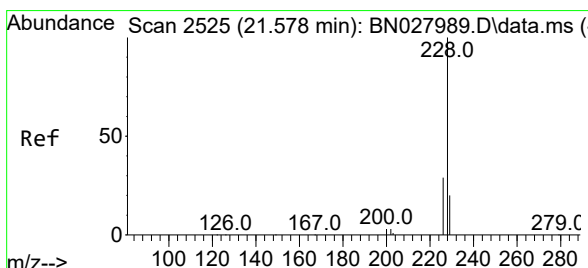
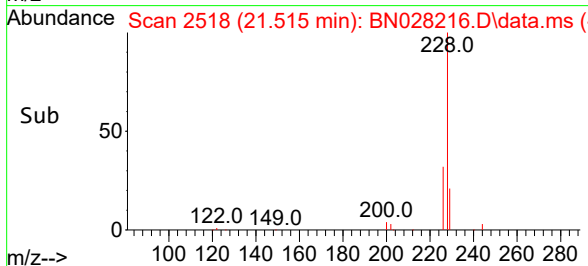
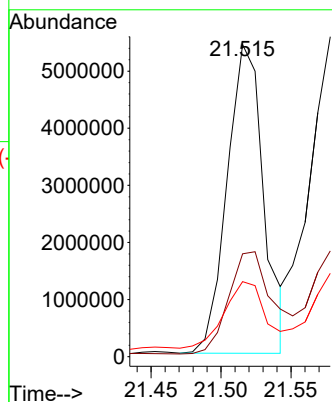
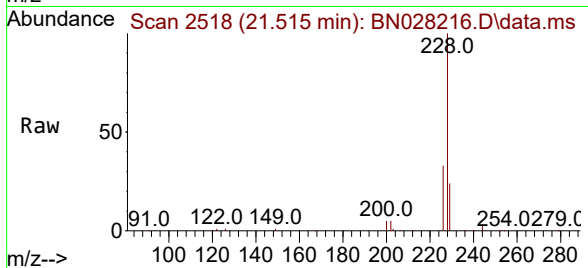
Tgt Ion:228 Resp: 9845679

Ion Ratio Lower Upper

228 100

226 33.0 22.0 33.0

229 24.0 16.0 24.0#



#33

Chrysene

Concen: 26.291 ng

RT: 21.515 min Scan# 2518

Delta R.T. -0.036 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

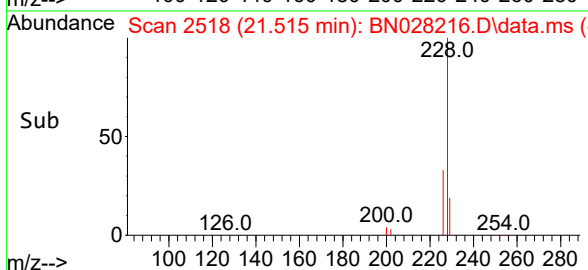
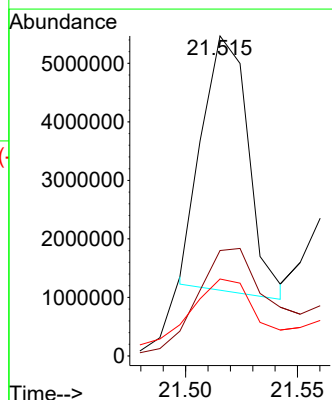
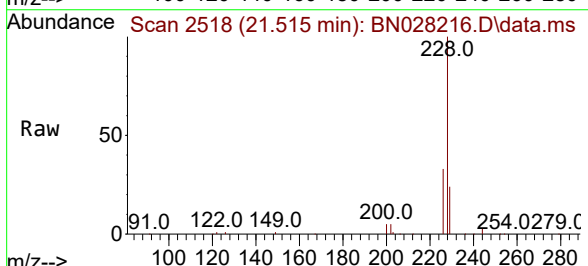
Tgt Ion:228 Resp: 6222351

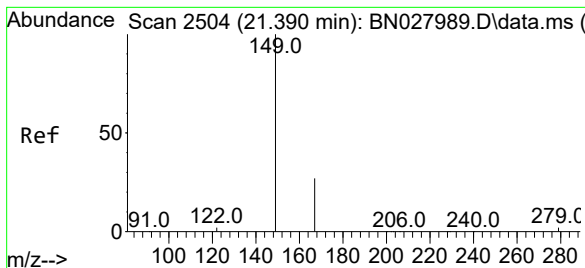
Ion Ratio Lower Upper

228 100

226 33.0 23.8 35.8

229 24.0 16.6 25.0

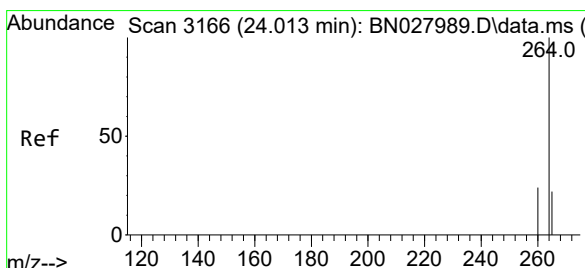
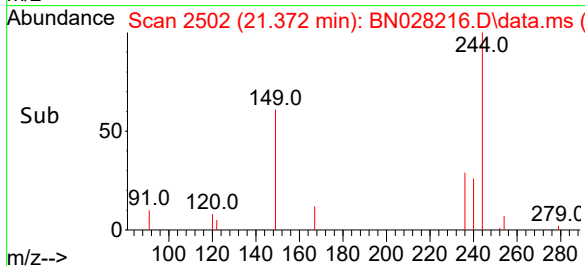
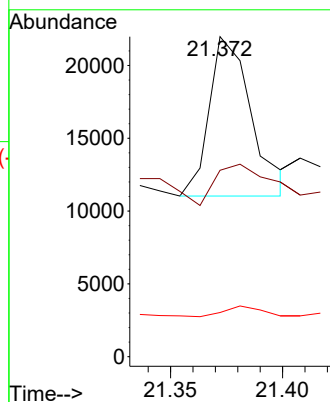
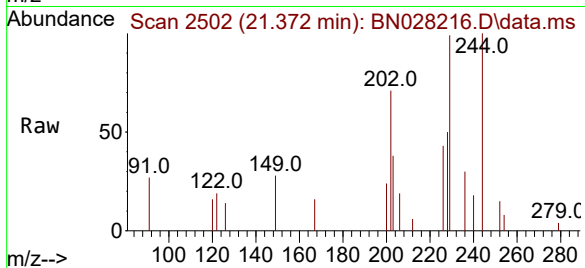




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.089 ng
 RT: 21.372 min Scan# 2135
 Delta R.T. 0.009 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

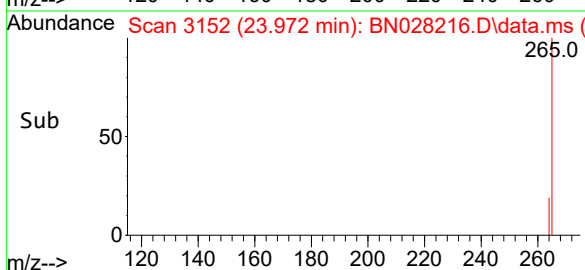
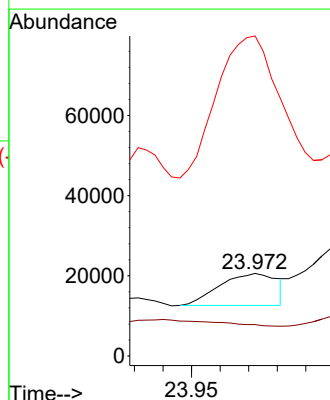
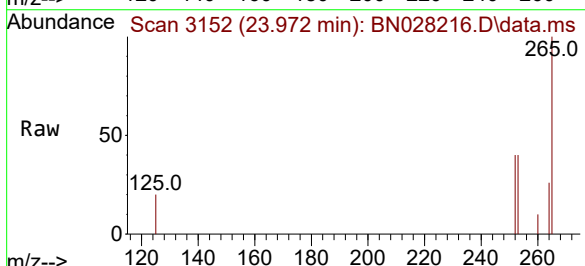
Instrument :
 BNA_N
 ClientSampleId :
 R-3(10-15)

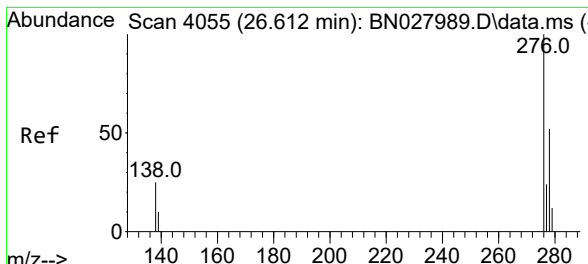
Tgt Ion:149 Resp: 14360
 Ion Ratio Lower Upper
 149 100
 167 35.8 22.1 33.1#
 279 5.7 3.4 5.0#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.972 min Scan# 3152
 Delta R.T. -0.003 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Tgt Ion:264 Resp: 11127
 Ion Ratio Lower Upper
 264 100
 260 38.0 20.2 30.4#
 265 387.6 54.8 82.2#



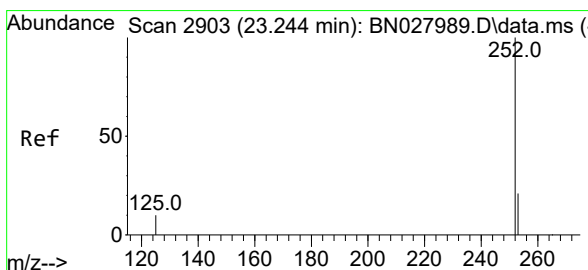
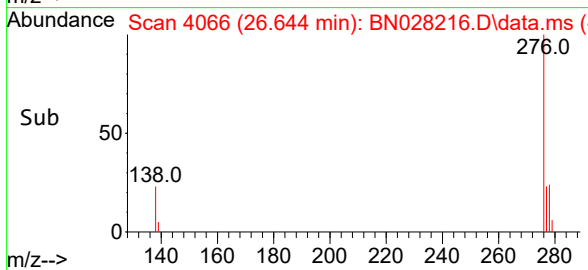
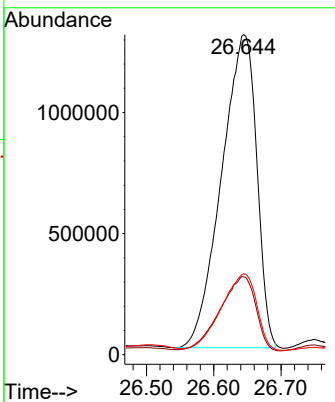
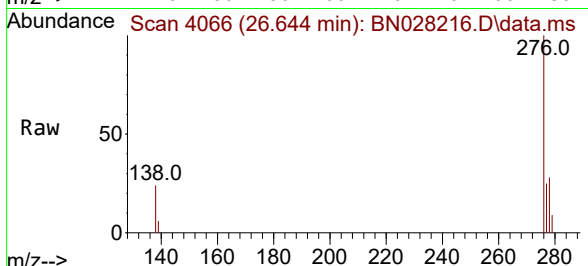


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 125.465 ng
 RT: 26.644 min Scan# 4066
 Delta R.T. 0.088 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Instrument :
 BNA_N
 ClientSampleId :
 R-3(10-15)

Tgt Ion:276 Resp: 4695842

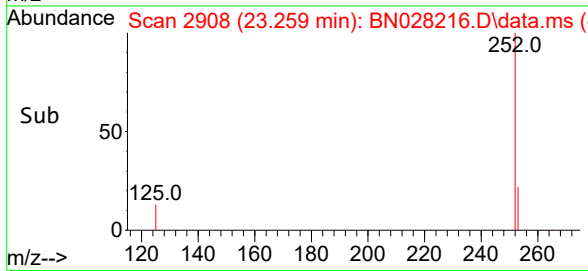
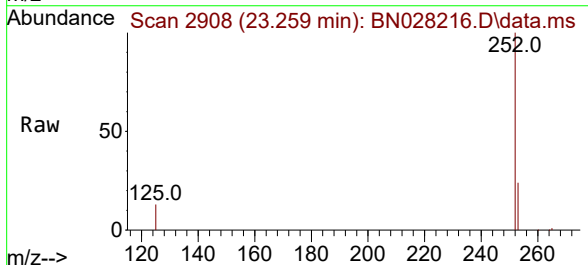
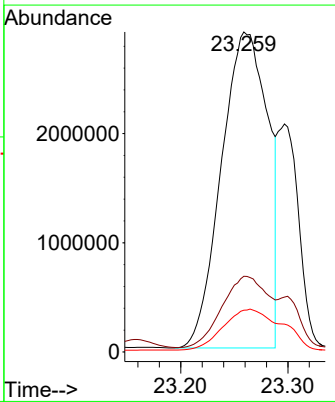
Ion	Ratio	Lower	Upper
276	100		
138	23.7	20.9	31.3
277	23.9	19.8	29.6

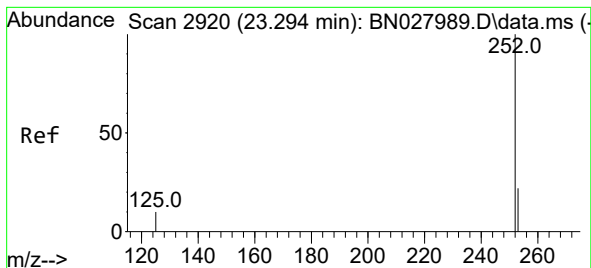


#37
 Benzo(b)fluoranthene
 Concen: 242.715 ng
 RT: 23.259 min Scan# 2908
 Delta R.T. 0.047 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Tgt Ion:252 Resp: 8722291

Ion	Ratio	Lower	Upper
252	100		
253	23.6	22.9	34.3
125	13.1	13.8	20.8





#38

Benzo(k)fluoranthene

Concen: 210.761 ng

RT: 23.259 min Scan# 2908

Delta R.T. -0.003 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

Instrument :

BN028216.D

ClientSampleId :

R-3(10-15)

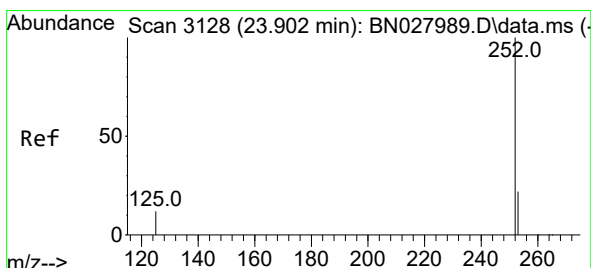
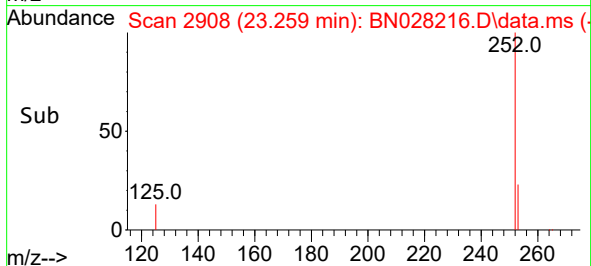
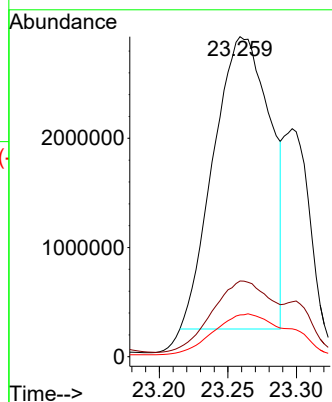
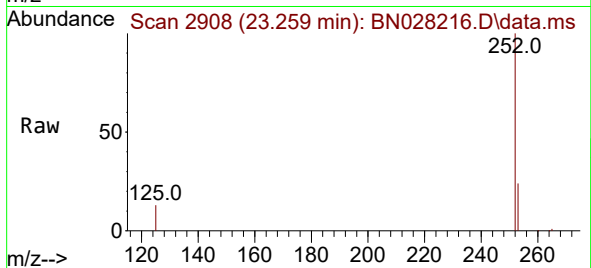
Tgt Ion:252 Resp: 7682150

Ion Ratio Lower Upper

252 100

253 23.6 23.1 34.7

125 13.1 13.8 20.8#



#39

Benzo(a)pyrene

Concen: 282.069 ng

RT: 23.923 min Scan# 3135

Delta R.T. 0.058 min

Lab File: BN028216.D

Acq: 11 Oct 2023 03:34

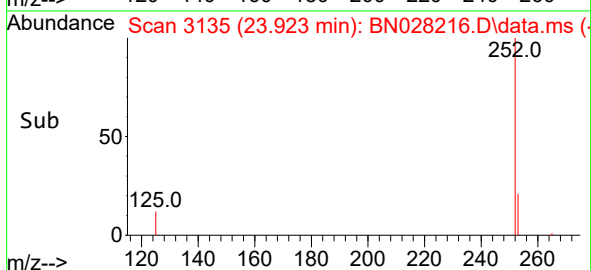
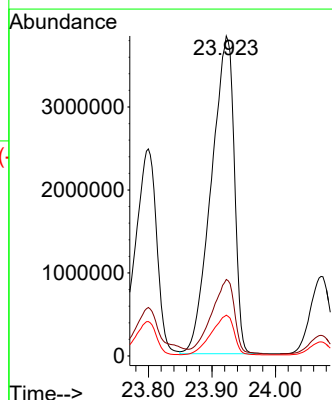
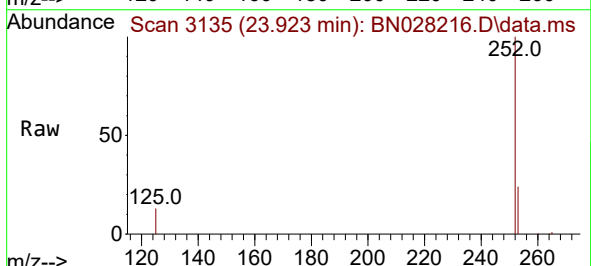
Tgt Ion:252 Resp: 9584812

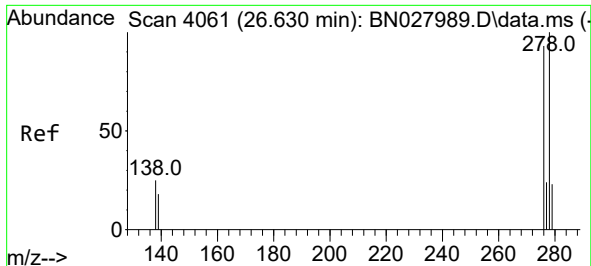
Ion Ratio Lower Upper

252 100

253 23.9 25.0 37.4#

125 12.7 16.6 24.8#

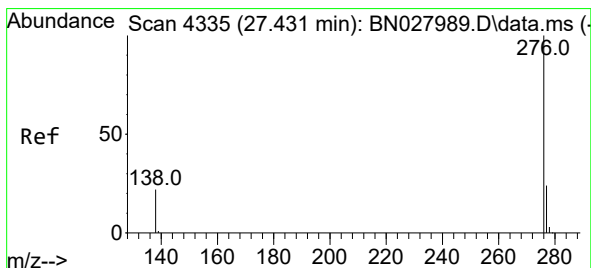
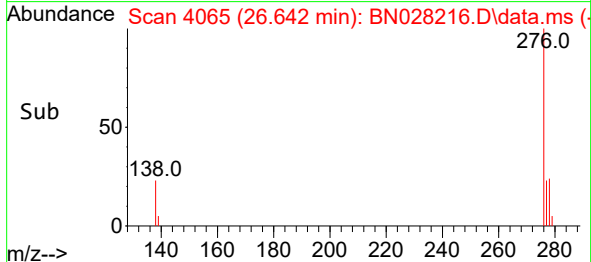
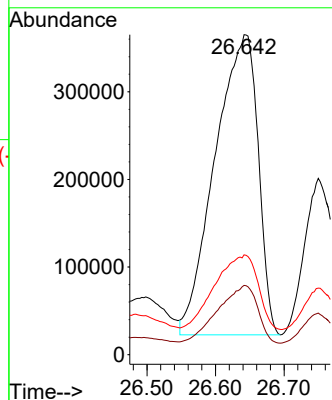
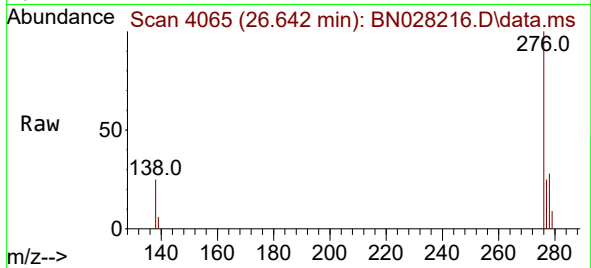




#40
 Dibenzo(a,h)anthracene
 Concen: 48.838 ng
 RT: 26.642 min Scan# 4065
 Delta R.T. 0.064 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Instrument :
 BNA_N
 ClientSampleId :
 R-3(10-15)

Tgt Ion:278 Resp: 1495300
 Ion Ratio Lower Upper
 278 100
 139 21.6 17.7 26.5
 279 31.2 25.2 37.8



#41
 Benzo(g,h,i)perylene
 Concen: 168.351 ng
 RT: 27.481 min Scan# 4352
 Delta R.T. 0.114 min
 Lab File: BN028216.D
 Acq: 11 Oct 2023 03:34

Tgt Ion:276 Resp: 5290765
 Ion Ratio Lower Upper
 276 100
 277 25.2 22.1 33.1
 138 24.6 20.8 31.2

