

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028215.D
 Acq On : 11 Oct 2023 02:58
 Operator : MA/JU
 Sample : 04693-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-2(10-15)

Quant Time: Oct 11 03:29:55 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

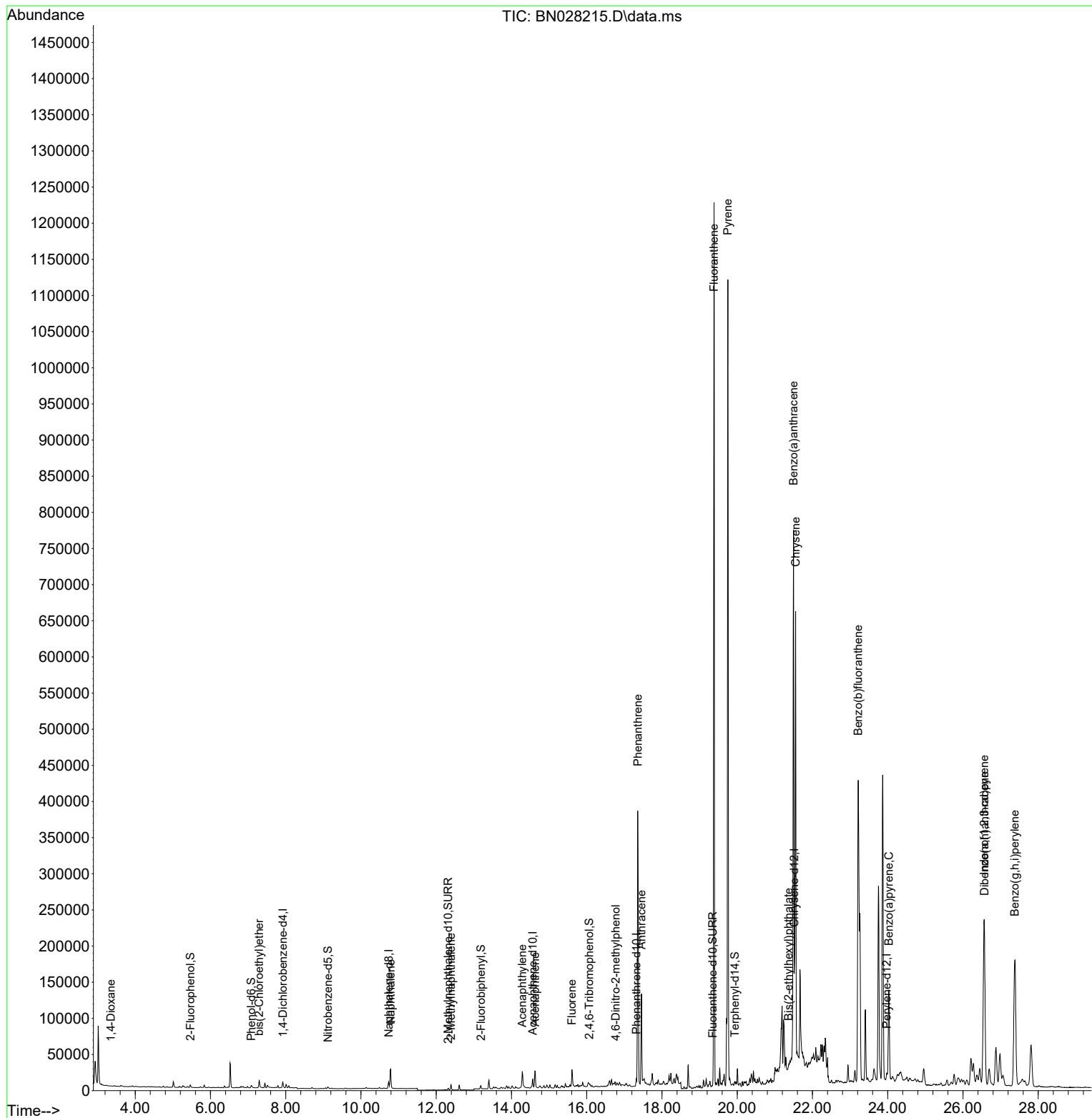
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	3934	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	13062	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	6715	0.400	ng	0.00
19) Phenanthrene-d10	17.319	188	13161	0.400	ng	0.00
29) Chrysene-d12	21.515	240	12490	0.400	ng	0.00
35) Perylene-d12	23.975	264	15762	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	3421	0.292	ng	0.00
5) Phenol-d6	7.084	99	3634	0.245	ng	0.00
8) Nitrobenzene-d5	9.123	82	2616	0.235	ng	0.00
11) 2-Methylnaphthalene-d10	12.317	152	3419	0.177	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	662	0.215	ng	-0.01
15) 2-Fluorobiphenyl	13.187	172	4457	0.184	ng	0.00
27) Fluoranthene-d10	19.351	212	5191	0.157	ng	0.00
31) Terphenyl-d14	19.936	244	4620	0.159	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.350	88	114	0.026	ng	# 25
6) bis(2-Chloroethyl)ether	7.293	93	13821	1.159	ng	# 24
9) Naphthalene	10.789	128	37356	1.107	ng	99
12) 2-Methylnaphthalene	12.392	142	5745	0.243	ng	97
16) Acenaphthylene	14.288	152	40210	1.352	ng	99
17) Acenaphthene	14.630	154	14430	0.761	ng	99
18) Fluorene	15.606	166	20436	0.830	ng	98
20) 4,6-Dinitro-2-methylph...	16.772	198	65	0.372	ng	# 54
25) Phenanthrene	17.356	178	404113	11.389	ng	99
26) Anthracene	17.455	178	137200	4.091	ng	99
28) Fluoranthene	19.384	202	1097232	26.795	ng	99
30) Pyrene	19.751	202	1043292	22.779	ng	98
32) Benzo(a)anthracene	21.497	228	655785	15.430	ng	99
33) Chrysene	21.551	228	557830	13.619	ng	98
34) Bis(2-ethylhexyl)phtha...	21.363	149	4193	0.150	ng	92
36) Indeno(1,2,3-cd)pyrene	26.563	276	416879	7.863	ng	97
37) Benzo(b)fluoranthene	23.215	252	761363	14.956	ng	# 89
39) Benzo(a)pyrene	24.031	252	164965	3.427	ng	95
40) Dibenzo(a,h)anthracene	26.574	278	101488	2.340	ng	99
41) Benzo(g,h,i)perylene	27.375	276	411630	9.246	ng	96

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

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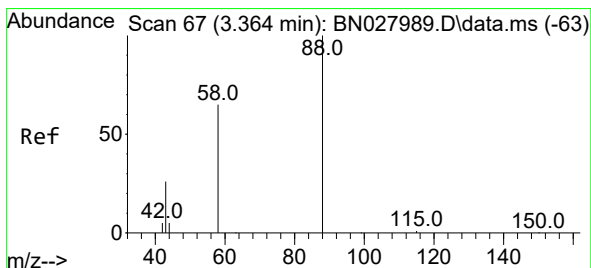
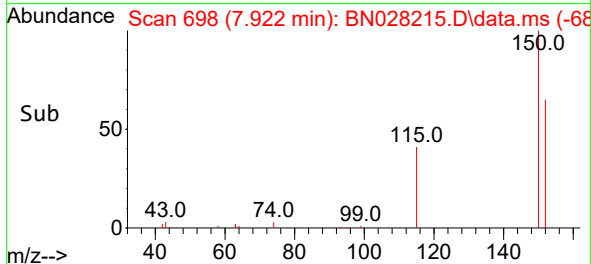
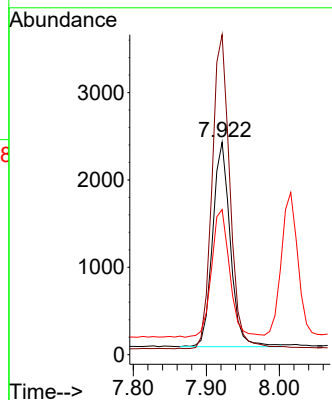
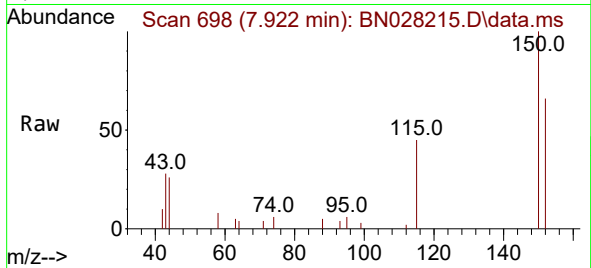




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.922 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN028215.D
 Acq: 11 Oct 2023 02:58

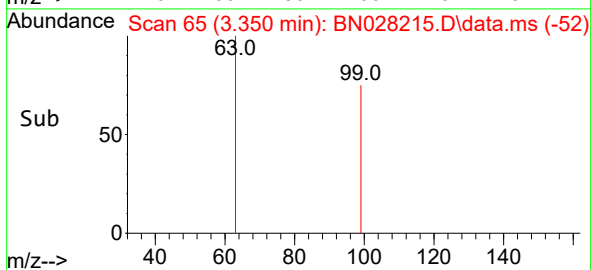
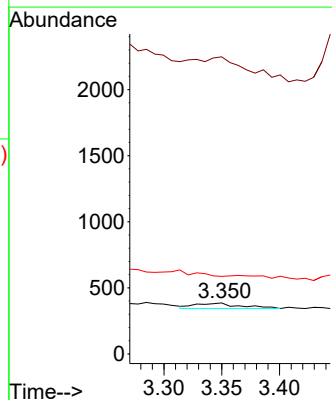
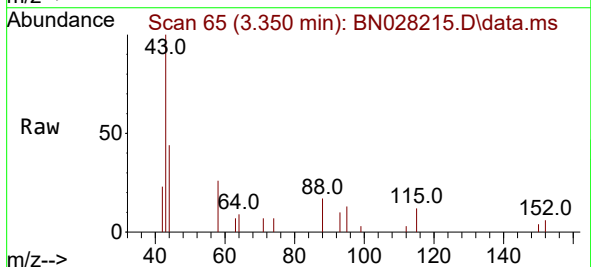
Instrument :
 BNA_N
 ClientSampleId :
 S-2(10-15)

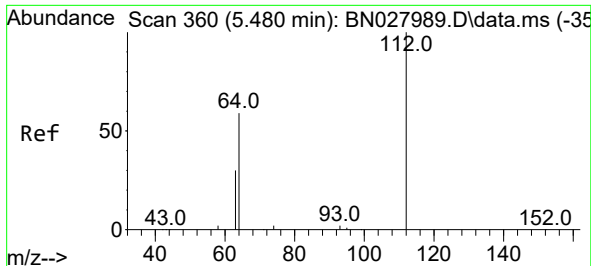
Tgt Ion:152 Resp: 3934
 Ion Ratio Lower Upper
 152 100
 150 150.6 125.6 188.4
 115 68.3 54.8 82.2



#2
 1,4-Dioxane
 Concen: 0.026 ng
 RT: 3.350 min Scan# 65
 Delta R.T. -0.007 min
 Lab File: BN028215.D
 Acq: 11 Oct 2023 02:58

Tgt Ion: 88 Resp: 114
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.6 36.8#
 58 0.0 53.8 80.6#

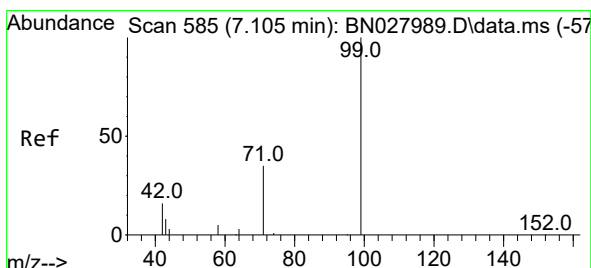
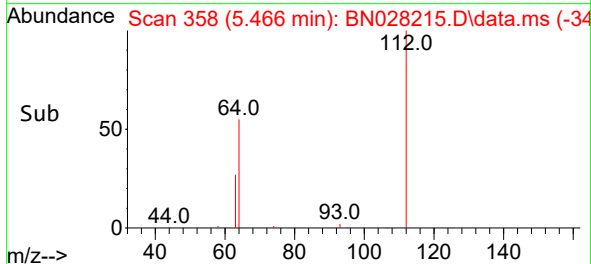
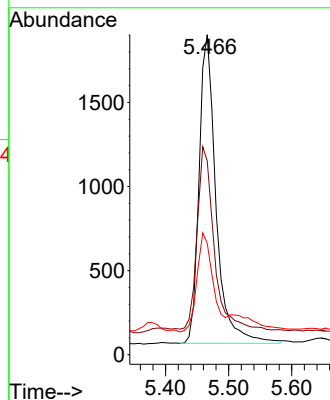
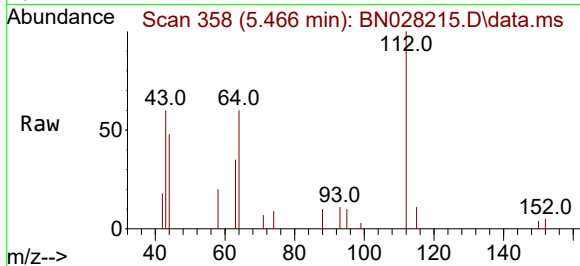




#4
2-Fluorophenol
Concen: 0.292 ng
RT: 5.466 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

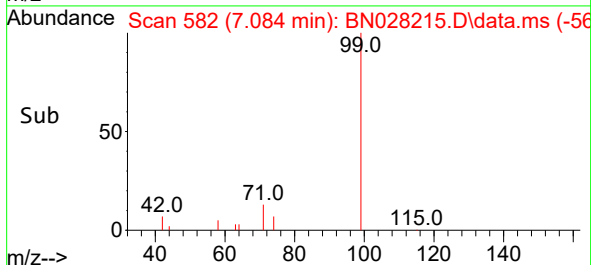
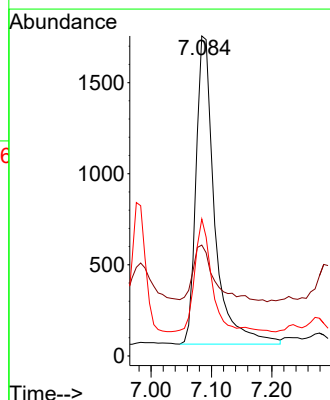
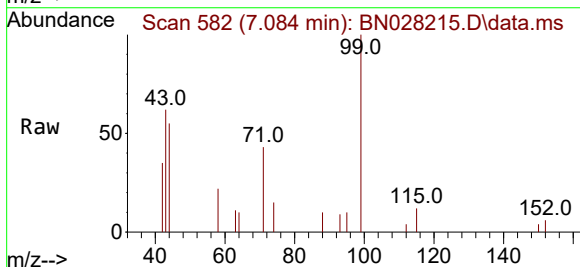
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

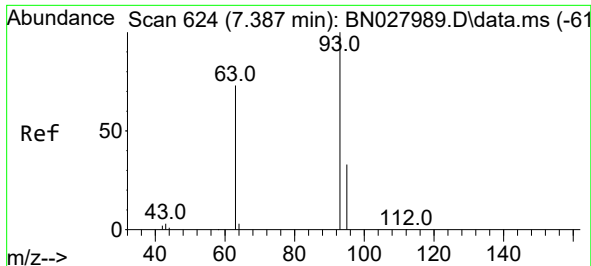
Tgt Ion:112 Resp: 3421
Ion Ratio Lower Upper
112 100
64 59.5 45.0 67.6
63 30.5 23.4 35.0



#5
Phenol-d6
Concen: 0.245 ng
RT: 7.084 min Scan# 582
Delta R.T. -0.007 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion: 99 Resp: 3634
Ion Ratio Lower Upper
99 100
42 21.2 14.6 22.0
71 33.8 28.3 42.5

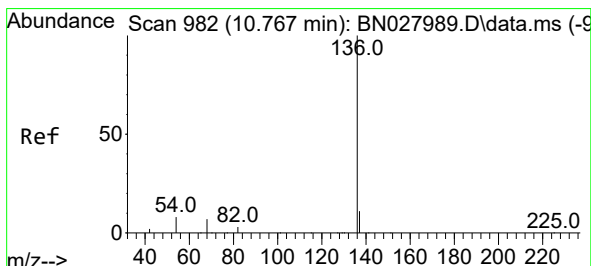
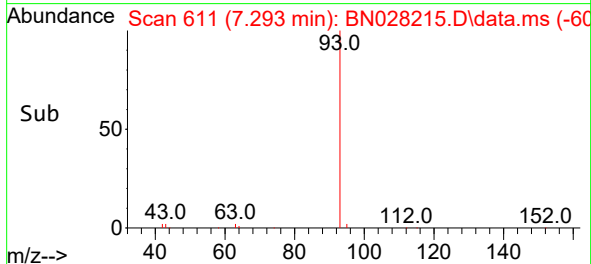
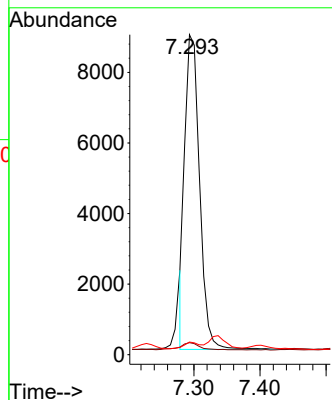
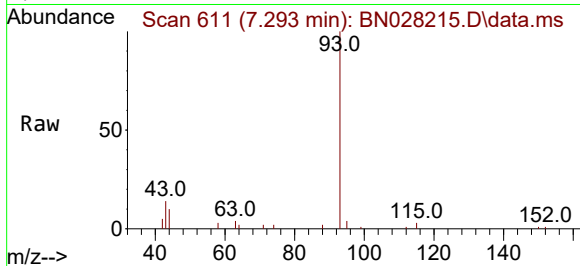




#6
bis(2-Chloroethyl)ether
Concen: 1.159 ng
RT: 7.293 min Scan# 611
Delta R.T. -0.072 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

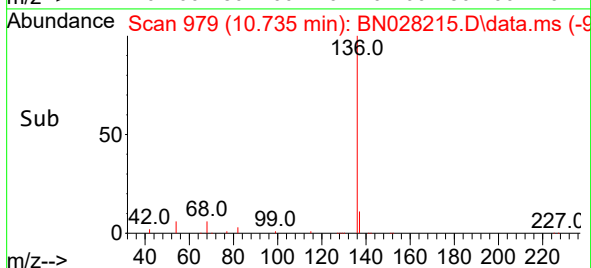
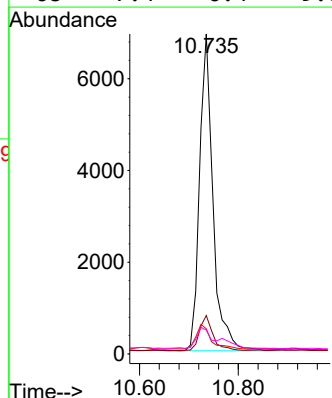
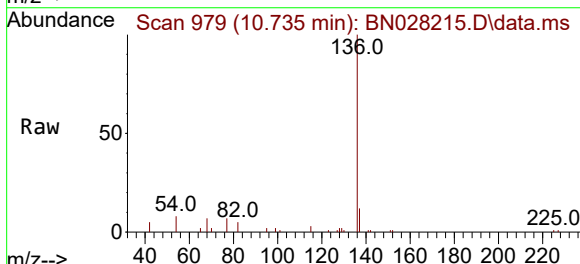
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

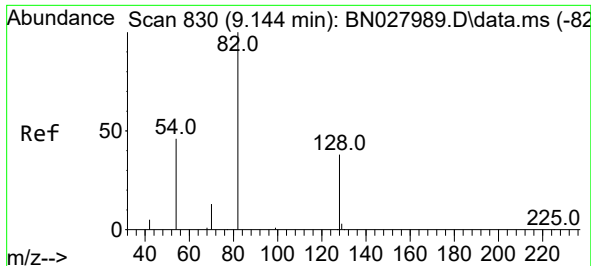
Tgt Ion: 93 Resp: 13821
Ion Ratio Lower Upper
93 100
63 2.4 58.8 88.2#
95 1.6 26.6 39.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:136 Resp: 13062
Ion Ratio Lower Upper
136 100
137 12.0 9.4 14.0
54 7.9 7.0 10.6
68 7.4 6.4 9.6

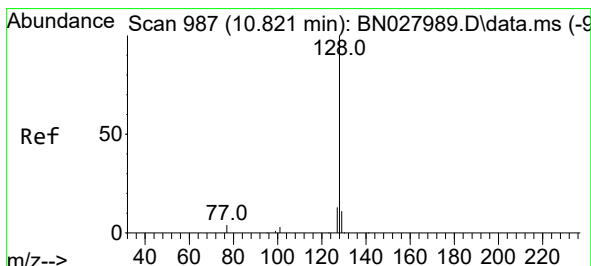
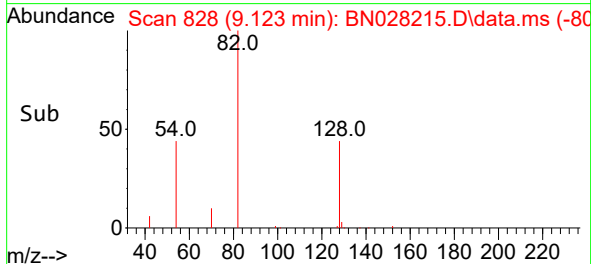
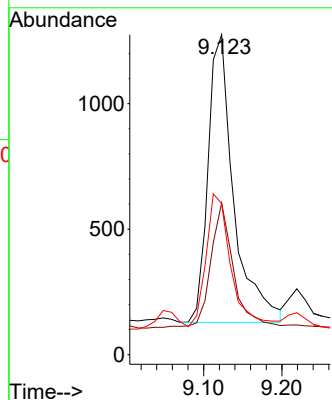
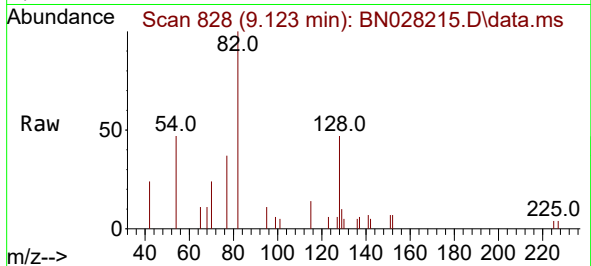




#8
Nitrobenzene-d5
Concen: 0.235 ng
RT: 9.123 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

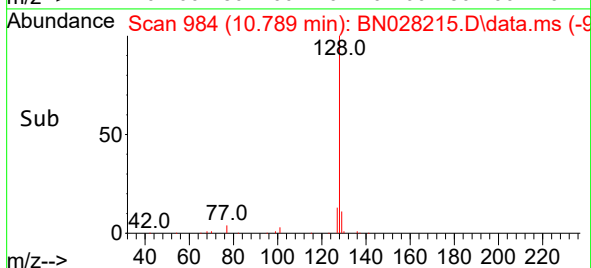
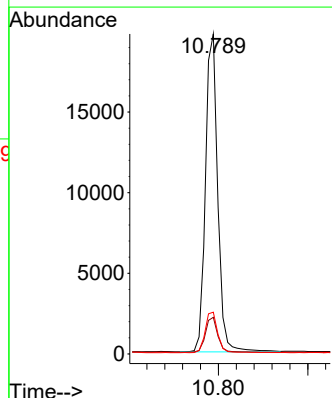
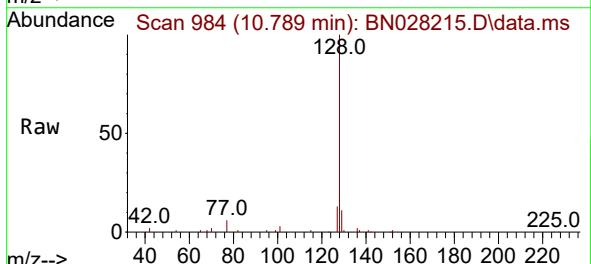
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

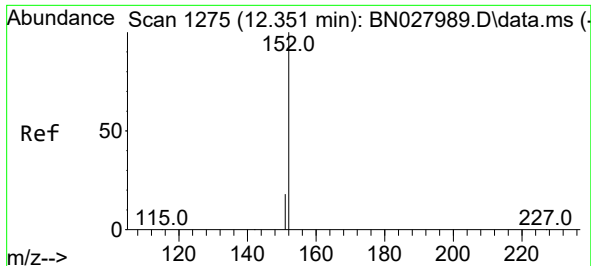
Tgt Ion: 82 Resp: 2616
Ion Ratio Lower Upper
82 100
128 47.5 32.7 49.1
54 47.2 38.7 58.1



#9
Naphthalene
Concen: 1.107 ng
RT: 10.789 min Scan# 984
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion: 128 Resp: 37356
Ion Ratio Lower Upper
128 100
129 11.5 9.4 14.2
127 13.0 10.9 16.3

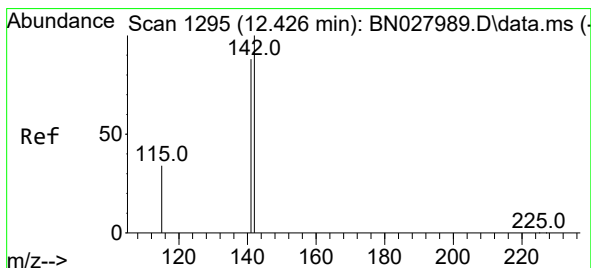
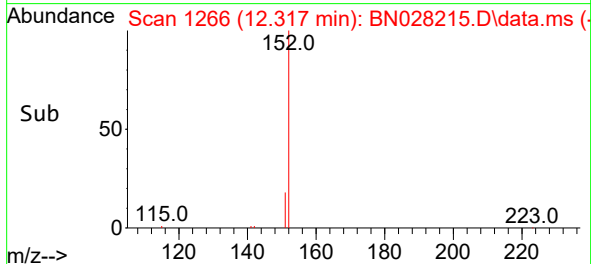
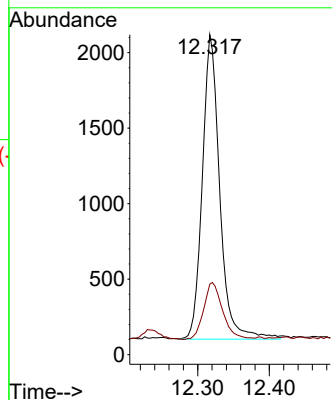
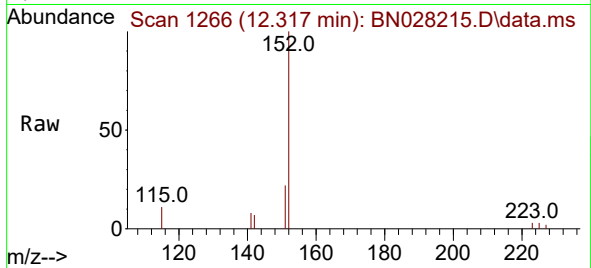




#11
2-Methylnaphthalene-d10
Concen: 0.177 ng
RT: 12.317 min Scan# 1266
Delta R.T. -0.008 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

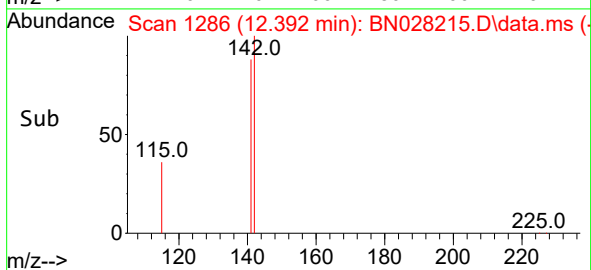
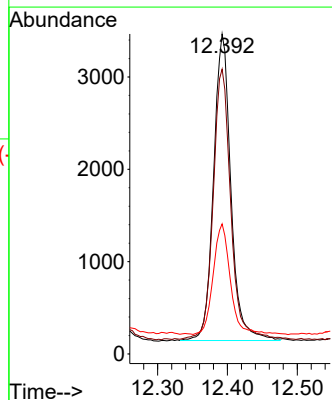
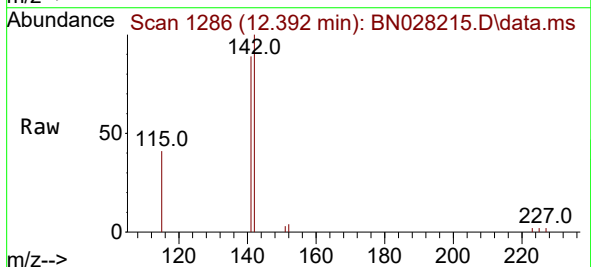
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

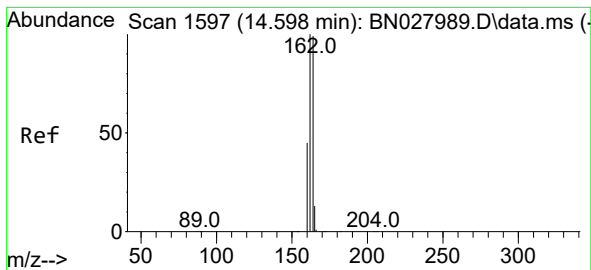
Tgt Ion:152 Resp: 3419
Ion Ratio Lower Upper
152 100
151 20.5 16.5 24.7



#12
2-Methylnaphthalene
Concen: 0.243 ng
RT: 12.392 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:142 Resp: 5745
Ion Ratio Lower Upper
142 100
141 89.0 70.7 106.1
115 40.7 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.566 min Scan# 1594

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

Instrument :

BNA_N

ClientSampleId :

S-2(10-15)

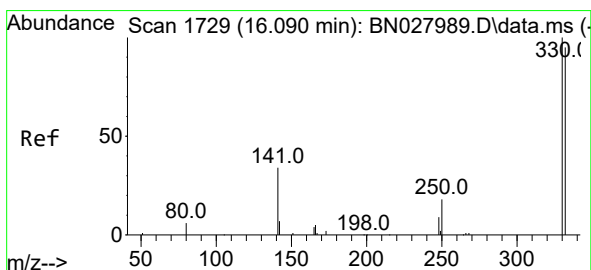
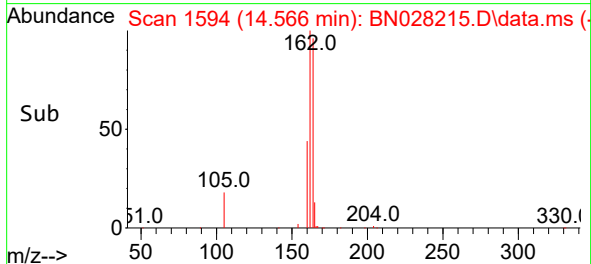
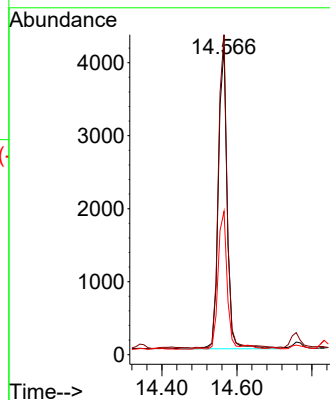
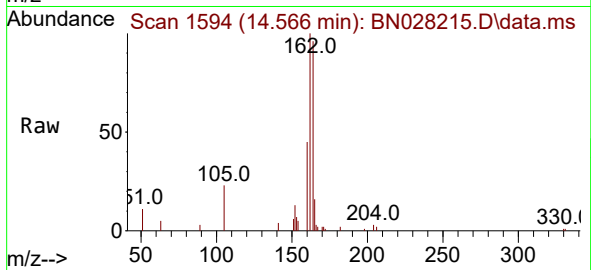
Tgt Ion:164 Resp: 6715

Ion Ratio Lower Upper

164 100

162 104.0 80.8 121.2

160 46.6 36.4 54.6



#14

2,4,6-Tribromophenol

Concen: 0.215 ng

RT: 16.065 min Scan# 1727

Delta R.T. -0.012 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

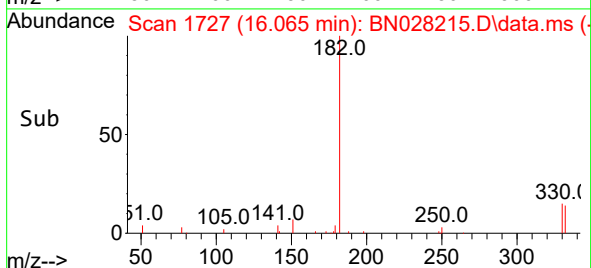
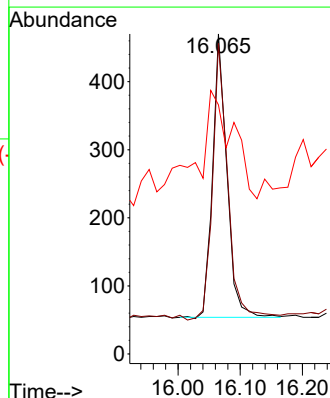
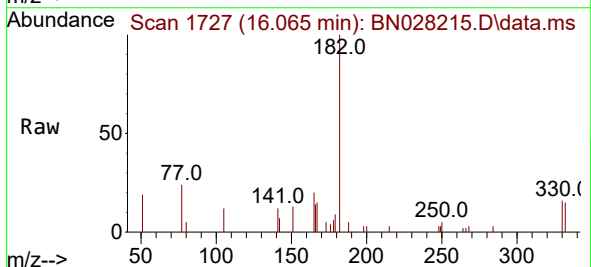
Tgt Ion:330 Resp: 662

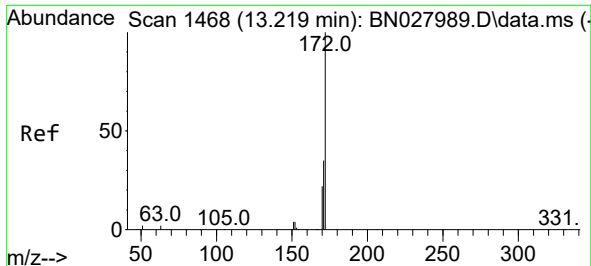
Ion Ratio Lower Upper

330 100

332 106.2 78.1 117.1

141 75.1 33.4 50.2#

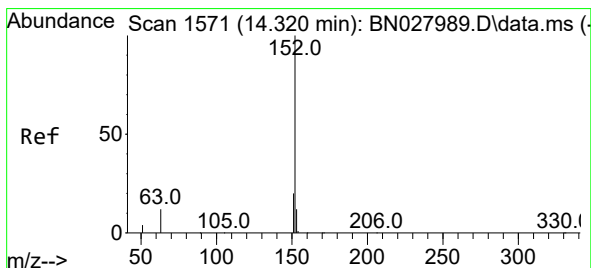
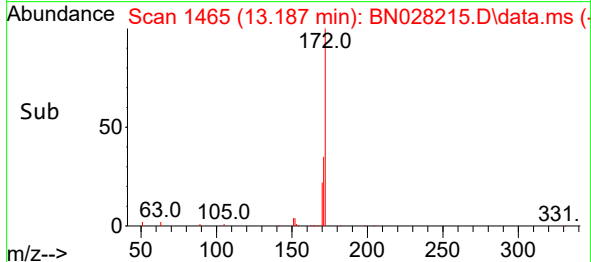
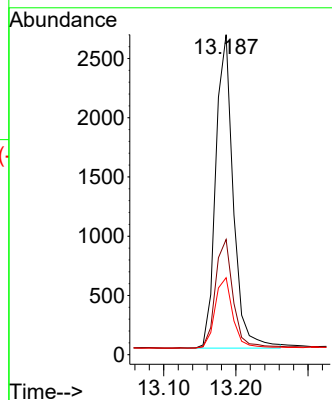
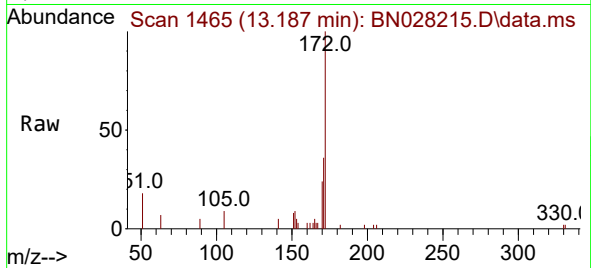




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 13.187 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

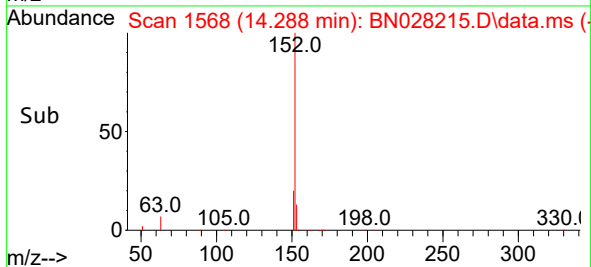
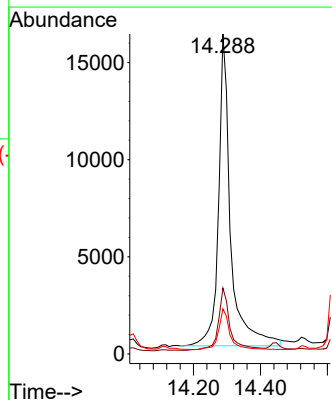
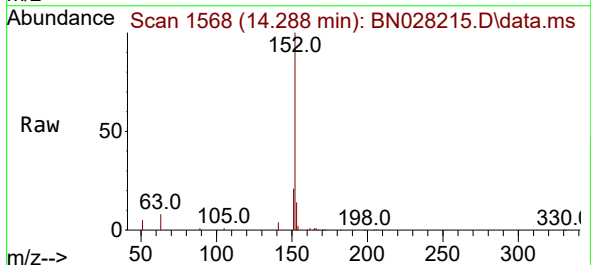
Instrument :
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S-2(10-15)

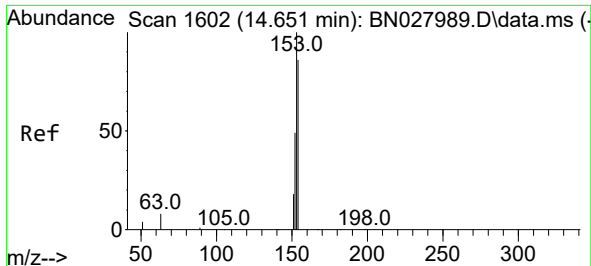
Tgt Ion:172 Resp: 4457
Ion Ratio Lower Upper
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171 36.0 28.1 42.1
170 24.0 18.4 27.6



#16
Acenaphthylene
Concen: 1.352 ng
RT: 14.288 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:152 Resp: 40210
Ion Ratio Lower Upper
152 100
151 19.3 15.8 23.6
153 12.2 10.2 15.4

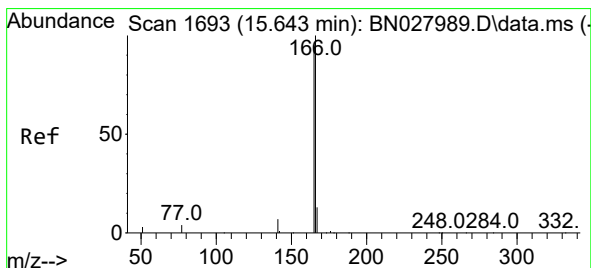
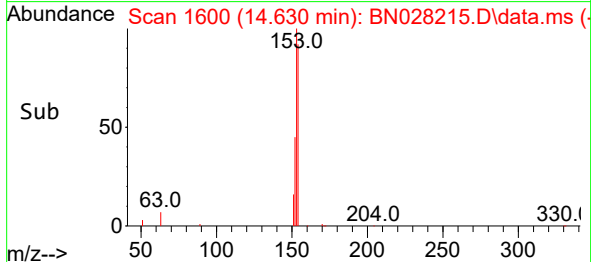
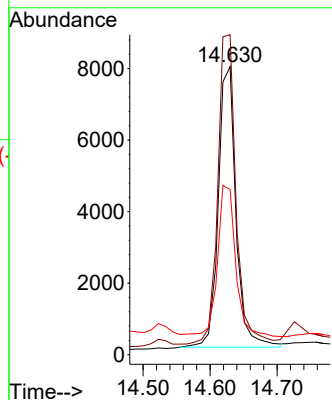
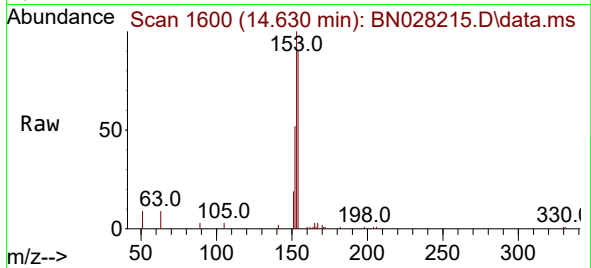




#17
Acenaphthene
Concen: 0.761 ng
RT: 14.630 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

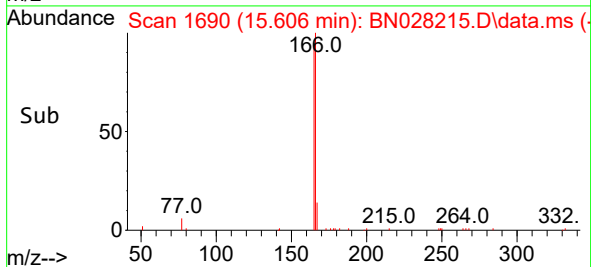
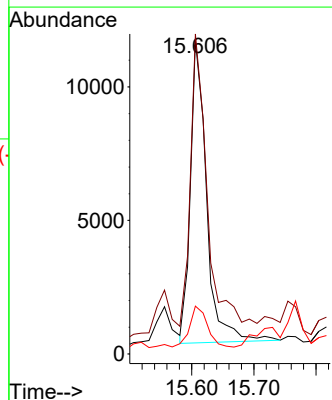
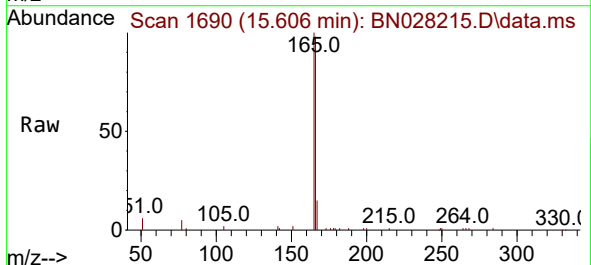
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

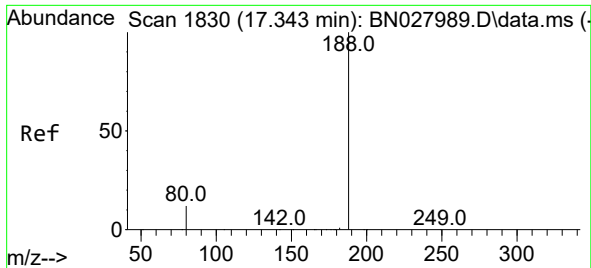
Tgt Ion:154 Resp: 14430
Ion Ratio Lower Upper
154 100
153 112.9 90.8 136.2
152 55.6 43.9 65.9



#18
Fluorene
Concen: 0.830 ng
RT: 15.606 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:166 Resp: 20436
Ion Ratio Lower Upper
166 100
165 99.1 77.8 116.8
167 15.6 10.7 16.1

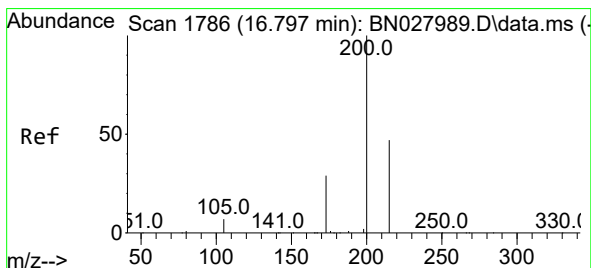
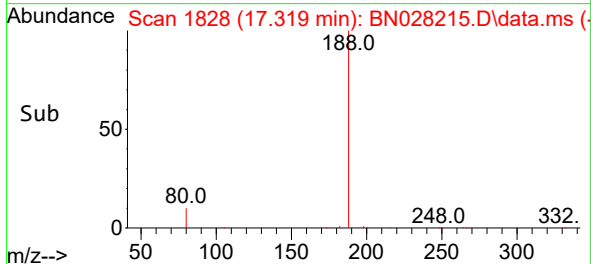
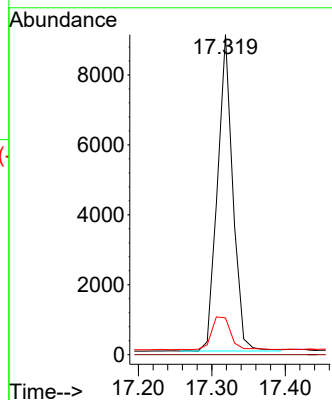
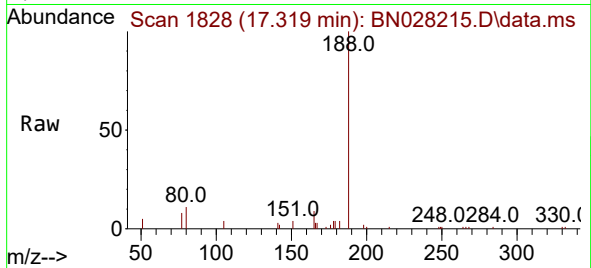




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.319 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

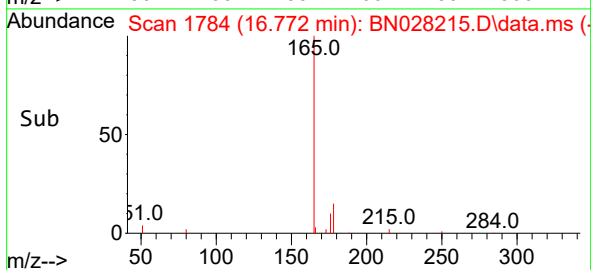
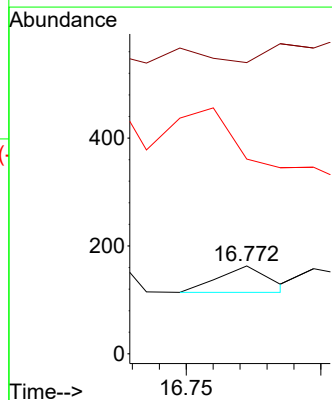
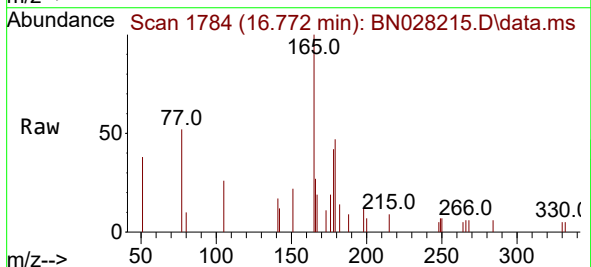
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

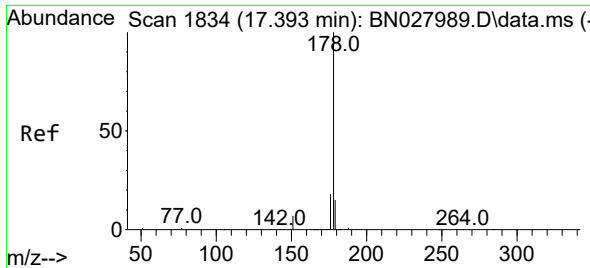
Tgt Ion:188 Resp: 13161
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 10.2 15.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.372 ng
RT: 16.772 min Scan# 1784
Delta R.T. -0.012 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:198 Resp: 65
Ion Ratio Lower Upper
198 100
51 331.3 180.7 271.1#
105 221.5 222.2 333.2#

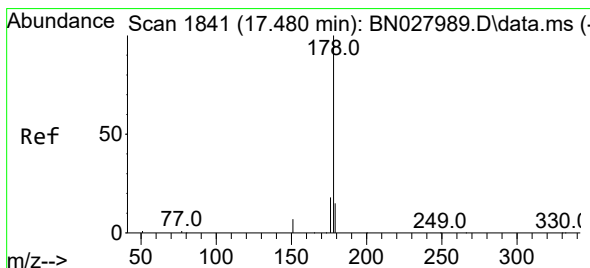
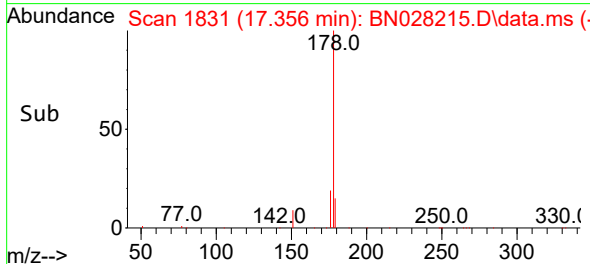
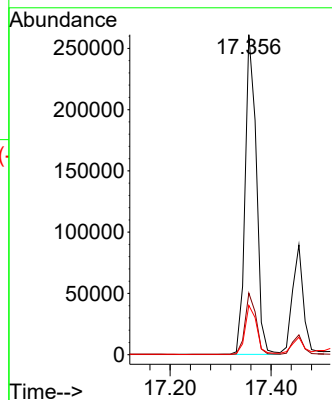
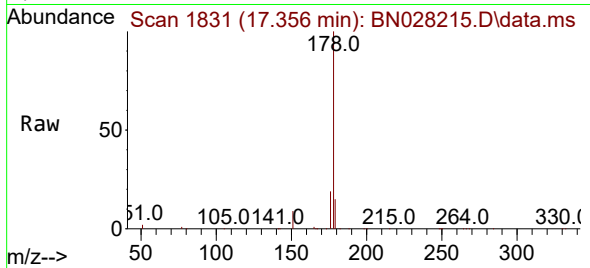




#25
Phenanthrene
Concen: 11.389 ng
RT: 17.356 min Scan# 1831
Delta R.T. -0.012 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

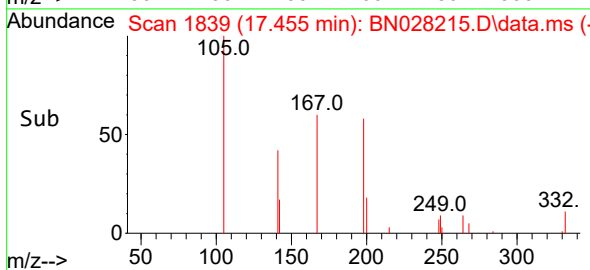
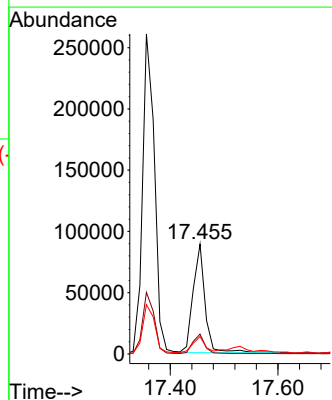
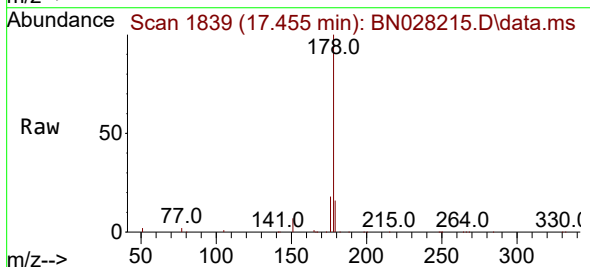
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

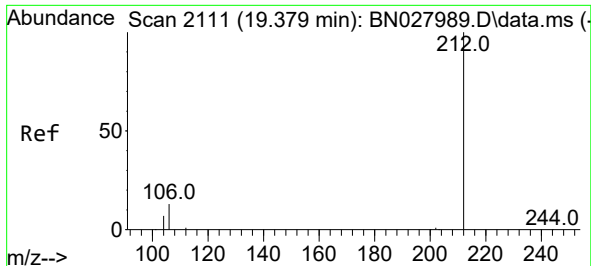
Tgt Ion:178 Resp: 404113
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.9 12.4 18.6



#26
Anthracene
Concen: 4.091 ng
RT: 17.455 min Scan# 1839
Delta R.T. -0.000 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:178 Resp: 137200
Ion Ratio Lower Upper
178 100
176 17.9 14.7 22.1
179 14.7 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.157 ng

RT: 19.351 min Scan# 2111

Delta R.T. -0.005 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

Instrument :

BNA_N

ClientSampleId :

S-2(10-15)

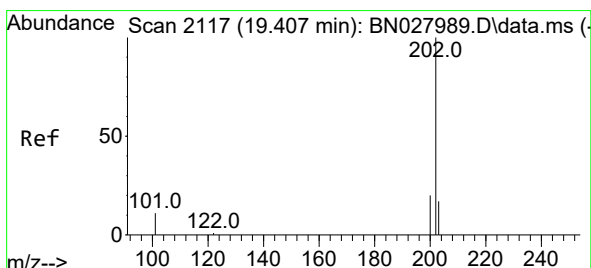
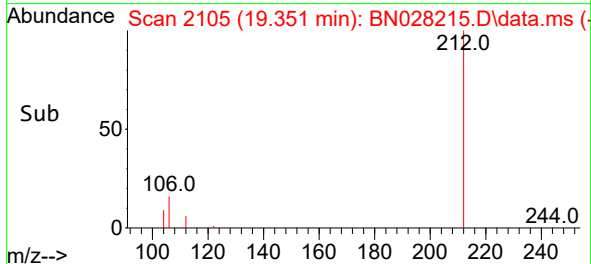
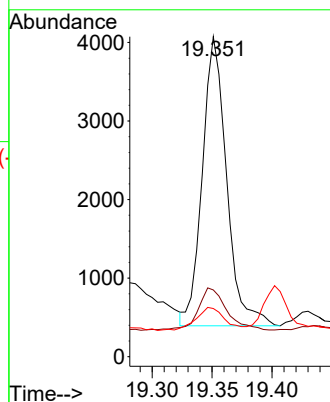
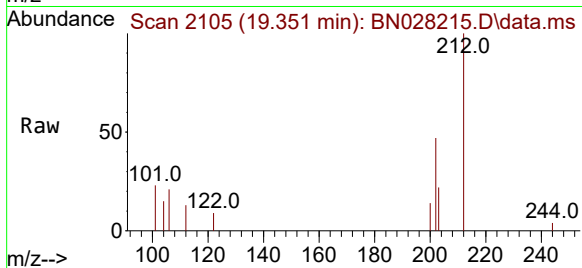
Tgt Ion:212 Resp: 5191

Ion Ratio Lower Upper

212 100

106 17.2 11.3 16.9#

104 9.6 6.4 9.6



#28

Fluoranthene

Concen: 26.795 ng

RT: 19.384 min Scan# 2112

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

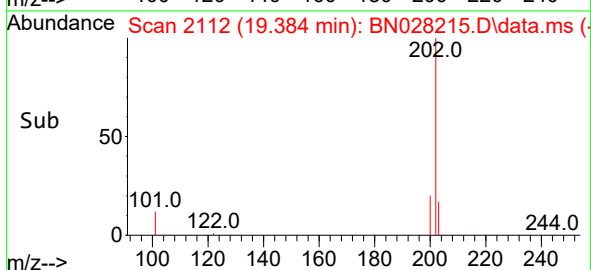
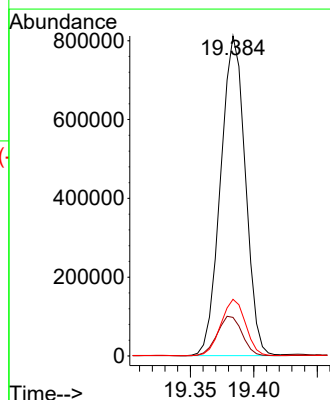
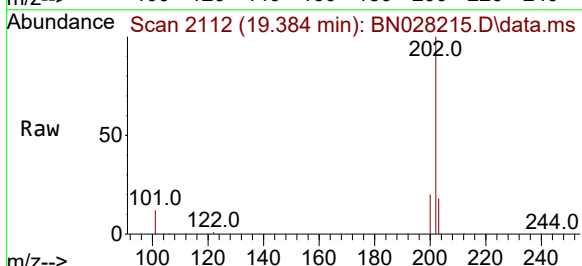
Tgt Ion:202 Resp: 1097232

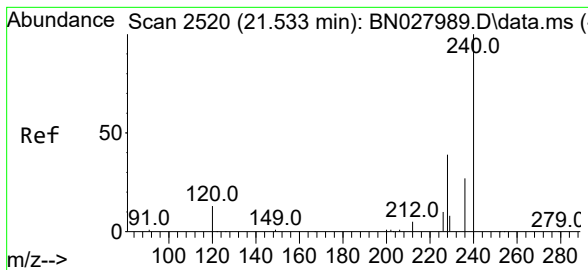
Ion Ratio Lower Upper

202 100

101 12.4 9.8 14.6

203 17.6 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.515 min Scan# 2118

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

Instrument :

BNA_N

ClientSampleId :

S-2(10-15)

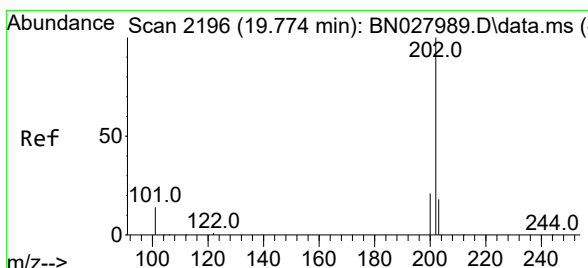
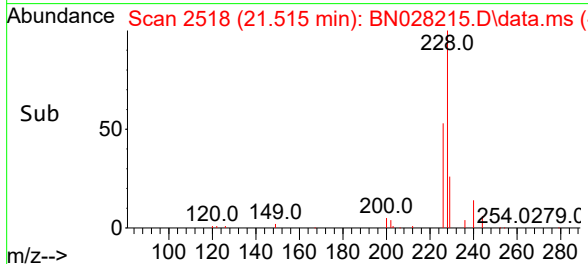
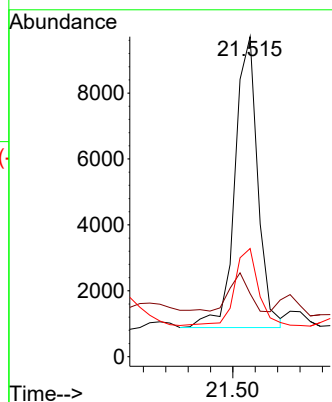
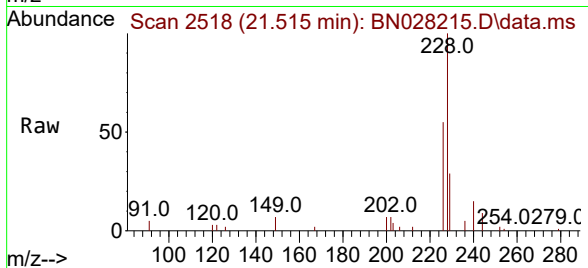
Tgt Ion:240 Resp: 12490

Ion Ratio Lower Upper

240 100

120 19.7 13.8 20.6

236 33.8 22.6 33.8



#30

Pyrene

Concen: 22.779 ng

RT: 19.751 min Scan# 2191

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

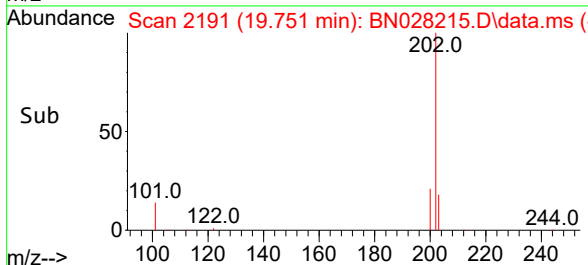
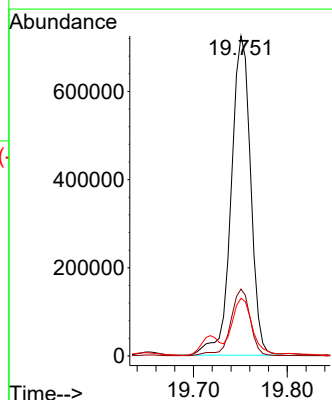
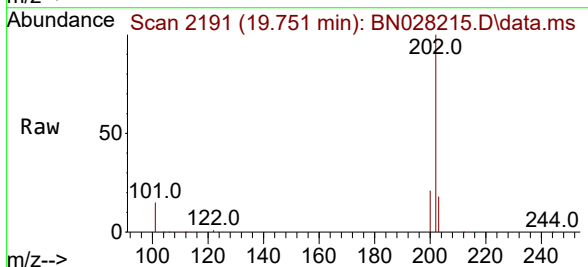
Tgt Ion:202 Resp: 1043292

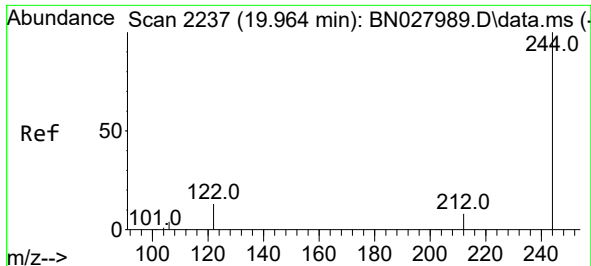
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

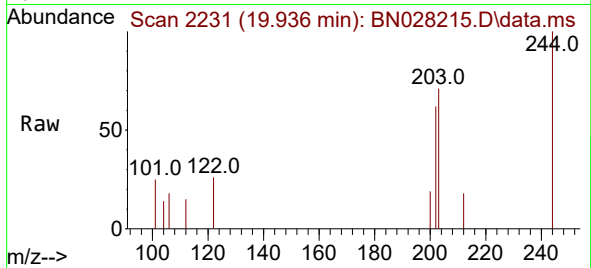
203 17.3 14.7 22.1



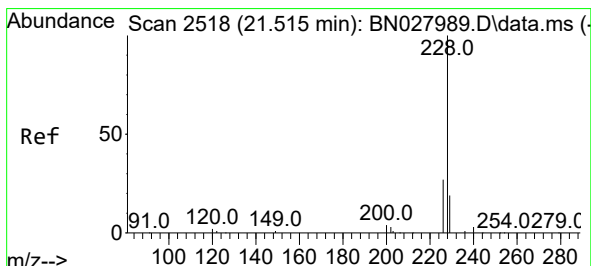
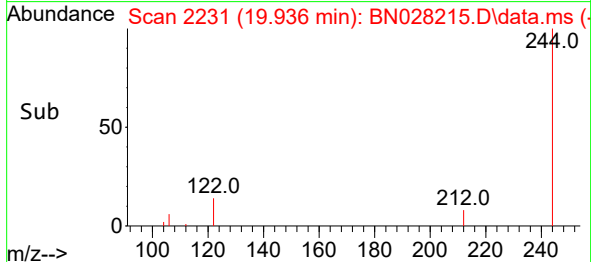
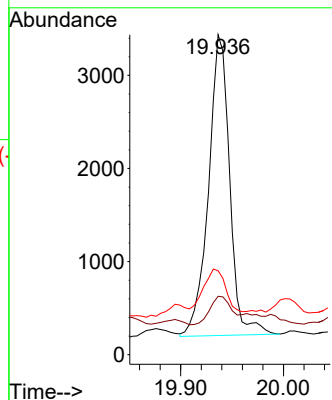


#31
 Terphenyl-d14
 Concen: 0.159 ng
 RT: 19.936 min Scan# 21
 Delta R.T. -0.005 min
 Lab File: BN028215.D
 Acq: 11 Oct 2023 02:58

Instrument :
 BNA_N
 ClientSampleId :
 S-2(10-15)

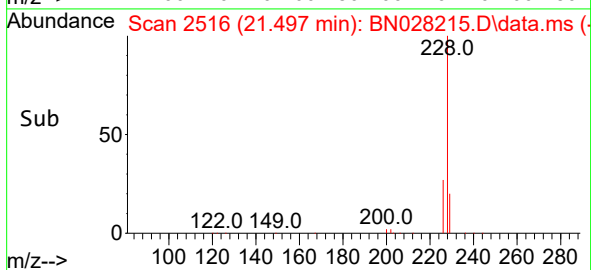
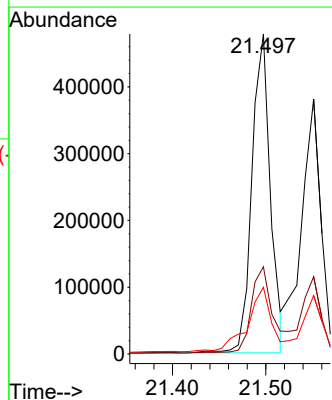
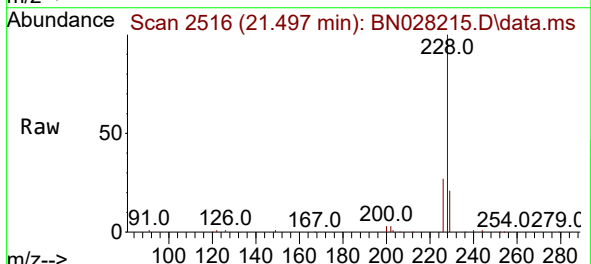


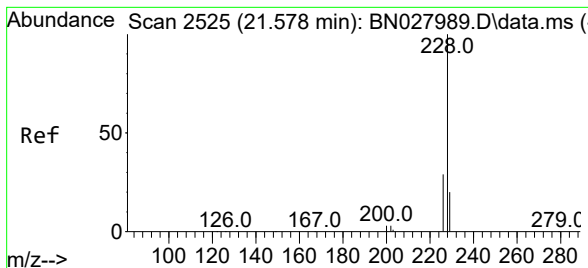
Tgt Ion:244 Resp: 4620
 Ion Ratio Lower Upper
 244 100
 212 18.3 6.6 9.8#
 122 26.2 11.4 17.0#



#32
 Benzo(a)anthracene
 Concen: 15.430 ng
 RT: 21.497 min Scan# 2516
 Delta R.T. -0.000 min
 Lab File: BN028215.D
 Acq: 11 Oct 2023 02:58

Tgt Ion:228 Resp: 655785
 Ion Ratio Lower Upper
 228 100
 226 27.2 22.0 33.0
 229 20.8 16.0 24.0





#33

Chrysene

Concen: 13.619 ng

RT: 21.551 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

Instrument :

BNA_N

ClientSampleId :

S-2(10-15)

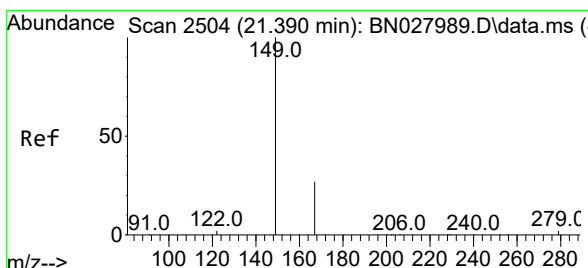
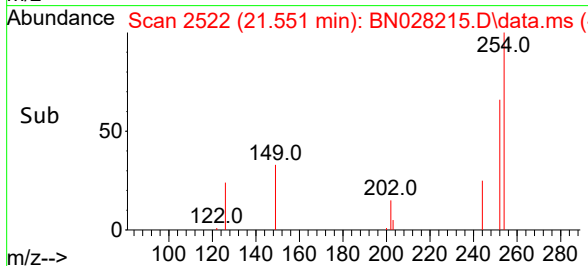
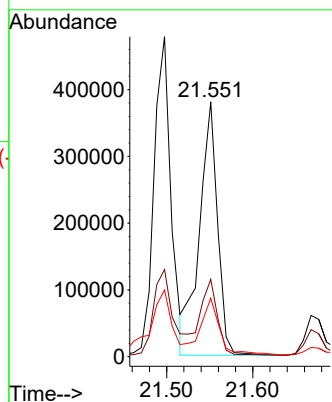
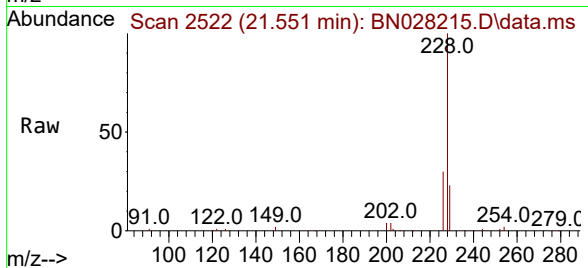
Tgt Ion:228 Resp: 557830

Ion Ratio Lower Upper

228 100

226 30.3 23.8 35.8

229 22.9 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.150 ng

RT: 21.363 min Scan# 2501

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

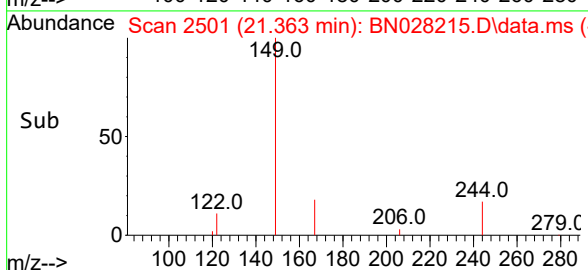
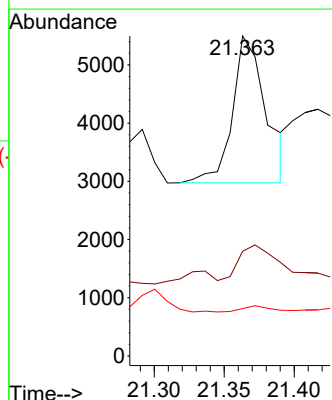
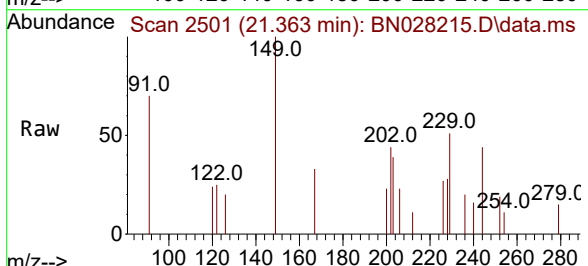
Tgt Ion:149 Resp: 4193

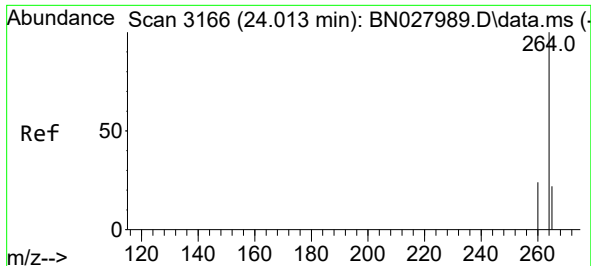
Ion Ratio Lower Upper

149 100

167 32.1 22.1 33.1

279 3.7 3.4 5.0





#35
Perylene-d12

Concen: 0.400 ng

RT: 23.975 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

Instrument :

BNA_N

ClientSampleId :

S-2(10-15)

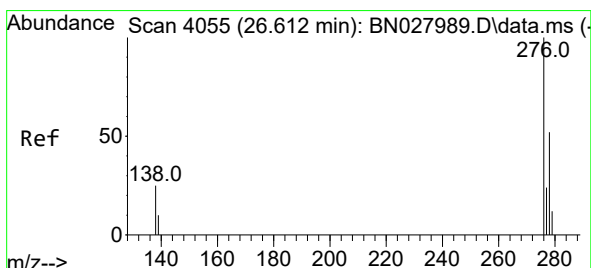
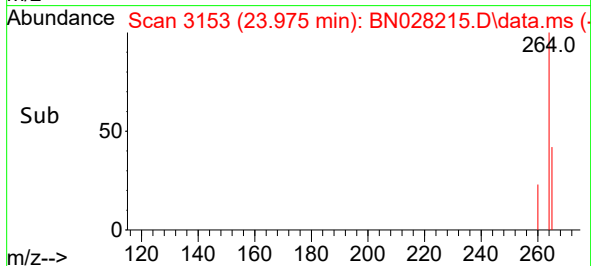
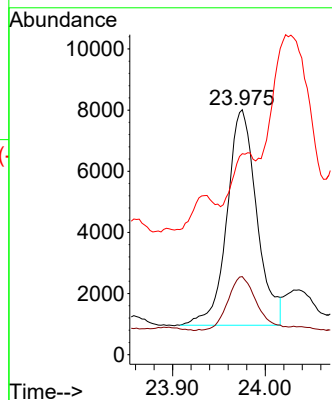
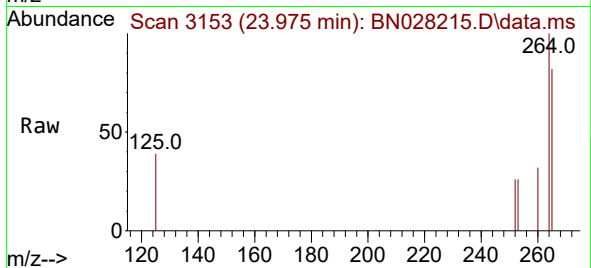
Tgt Ion:264 Resp: 15762

Ion Ratio Lower Upper

264 100

260 31.9 20.2 30.4#

265 82.0 54.8 82.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 7.863 ng

RT: 26.563 min Scan# 4038

Delta R.T. 0.006 min

Lab File: BN028215.D

Acq: 11 Oct 2023 02:58

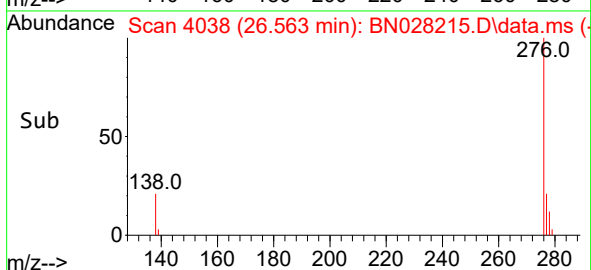
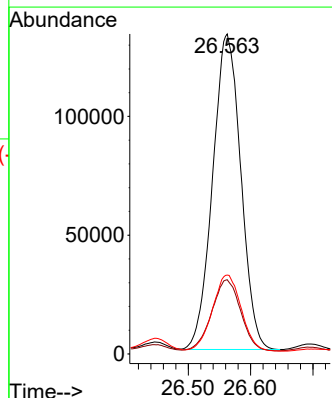
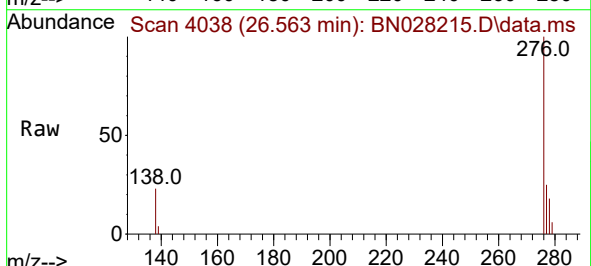
Tgt Ion:276 Resp: 416879

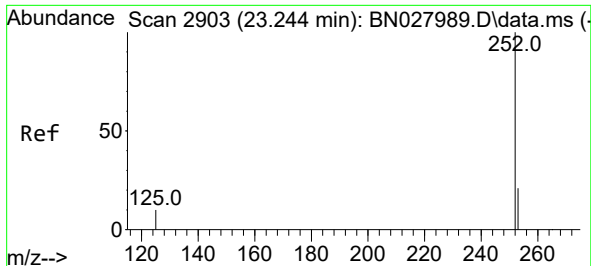
Ion Ratio Lower Upper

276 100

138 23.1 20.9 31.3

277 24.7 19.8 29.6

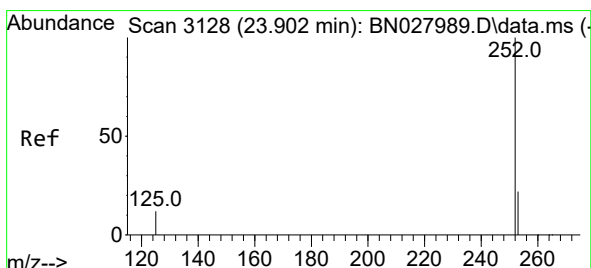
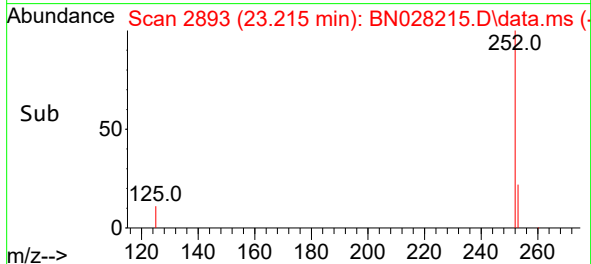
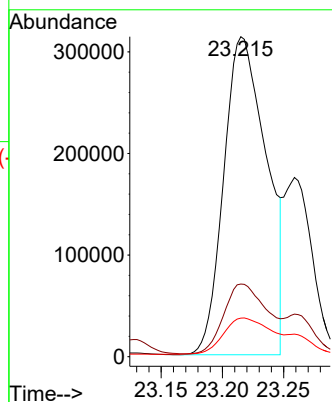
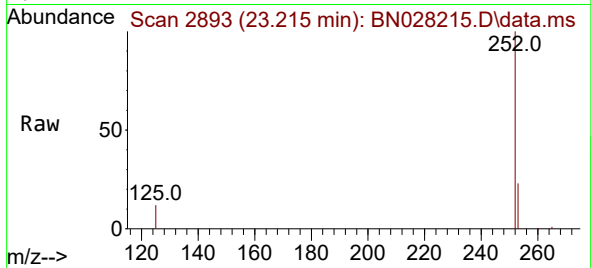




#37
Benzo(b)fluoranthene
Concen: 14.956 ng
RT: 23.215 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

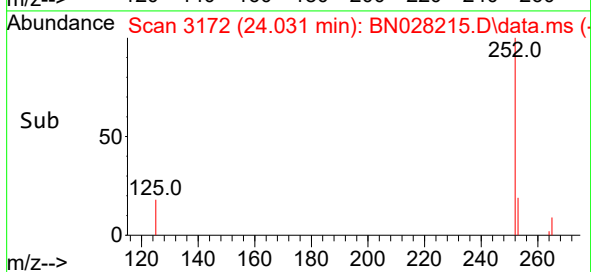
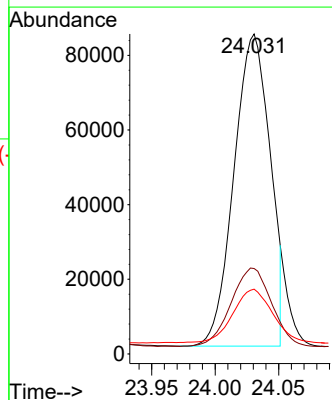
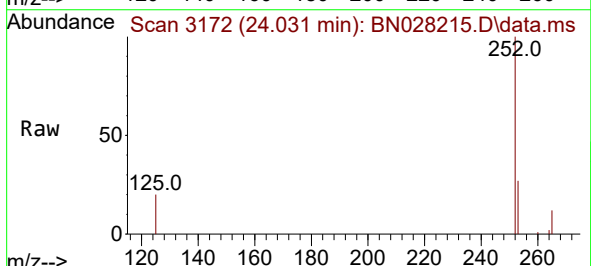
Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

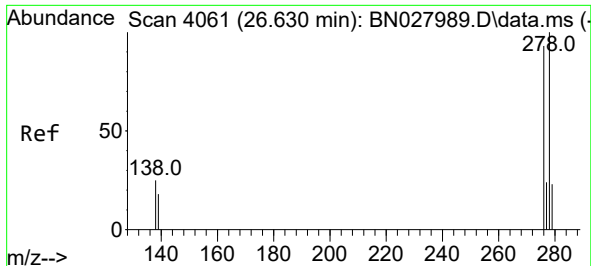
Tgt Ion:252 Resp: 761363
Ion Ratio Lower Upper
252 100
253 22.7 22.9 34.3#
125 12.1 13.8 20.8#



#39
Benzo(a)pyrene
Concen: 3.427 ng
RT: 24.031 min Scan# 3172
Delta R.T. 0.167 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:252 Resp: 164965
Ion Ratio Lower Upper
252 100
253 26.7 25.0 37.4
125 20.3 16.6 24.8

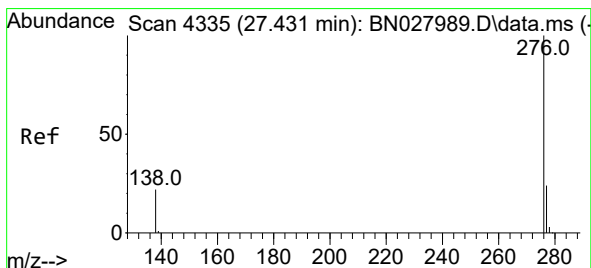
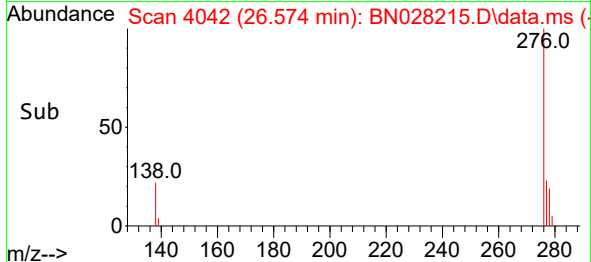
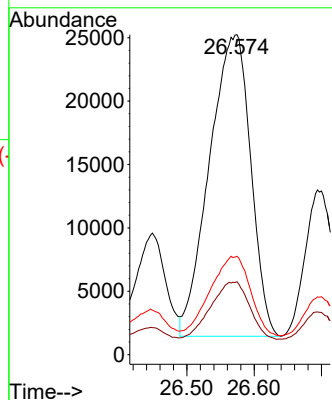
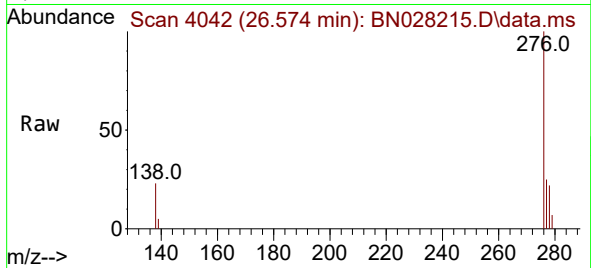




#40
Dibenzo(a,h)anthracene
Concen: 2.340 ng
RT: 26.574 min Scan# 4061
Delta R.T. -0.003 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Instrument :
BNA_N
ClientSampleId :
S-2(10-15)

Tgt Ion:278 Resp: 101488
Ion Ratio Lower Upper
278 100
139 22.8 17.7 26.5
279 30.8 25.2 37.8



#41
Benzo(g,h,i)perylene
Concen: 9.246 ng
RT: 27.375 min Scan# 4316
Delta R.T. 0.009 min
Lab File: BN028215.D
Acq: 11 Oct 2023 02:58

Tgt Ion:276 Resp: 411630
Ion Ratio Lower Upper
276 100
277 25.2 22.1 33.1
138 24.3 20.8 31.2

