

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102423\
 Data File : BN028389.D
 Acq On : 25 Oct 2023 00:14
 Operator : MA/JU
 Sample : 04938-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A-3(0-2)

Quant Time: Oct 25 01:08:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN101223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 15:14:08 2023
 Response via : Initial Calibration

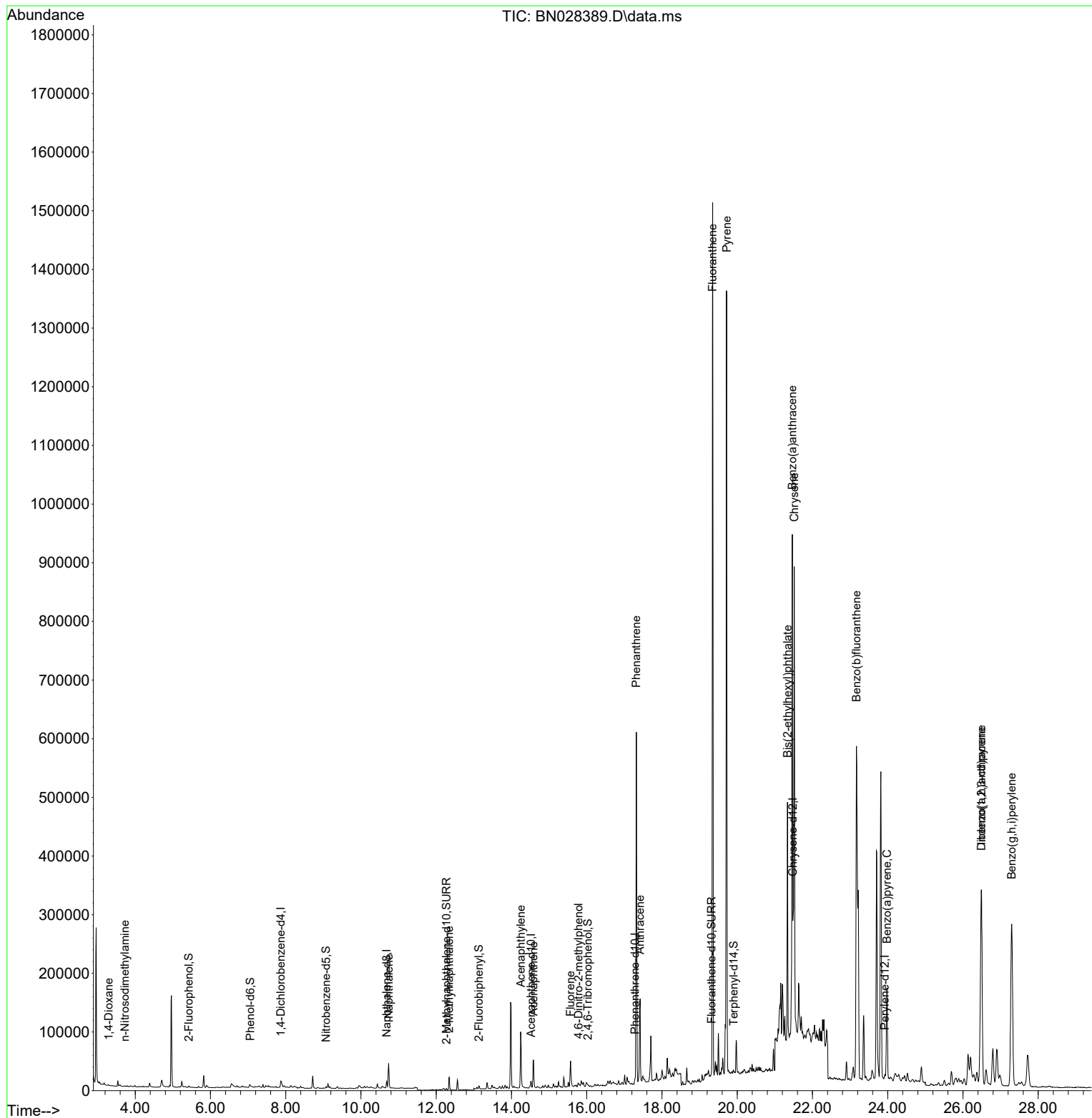
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.871	152	4733	0.400	ng	0.00
7) Naphthalene-d8	10.682	136	15550	0.400	ng	#-0.02
13) Acenaphthene-d10	14.523	164	7148	0.400	ng	-0.01
19) Phenanthrene-d10	17.282	188	12018	0.400	ng	#-0.01
29) Chrysene-d12	21.480	240	12882	0.400	ng	# 0.00
35) Perylene-d12	23.926	264	14620	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.423	112	2111	0.144	ng	0.00
5) Phenol-d6	7.055	99	3533	0.195	ng	0.00
8) Nitrobenzene-d5	9.070	82	2809	0.204	ng	-0.03
11) 2-Methylnaphthalene-d10	12.272	152	3478	0.149	ng	-0.02
14) 2,4,6-Tribromophenol	16.028	330	573	0.164	ng	-0.04
15) 2-Fluorobiphenyl	13.133	172	4452	0.177	ng	-0.03
27) Fluoranthene-d10	19.319	212	4213	0.131	ng	0.00
31) Terphenyl-d14	19.904	244	4473	0.164	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.292	88	270	0.047	ng	# 1
3) n-Nitrosodimethylamine	3.726	42	144	0.023	ng	# 1
9) Naphthalene	10.735	128	54021	1.339	ng	97
12) 2-Methylnaphthalene	12.343	142	15029	0.524	ng	96
16) Acenaphthylene	14.245	152	117924	3.671	ng	99
17) Acenaphthene	14.587	154	26281	1.299	ng	98
18) Fluorene	15.569	166	34877	1.309	ng	93
20) 4,6-Dinitro-2-methylph...	15.780	198	11	0.194	ng	# 1
25) Phenanthrene	17.319	178	580929	17.659	ng	100
26) Anthracene	17.418	178	164214	5.226	ng	# 96
28) Fluoranthene	19.347	202	1294029	31.311	ng	100
30) Pyrene	19.718	202	1251068	28.382	ng	99
32) Benzo(a)anthracene	21.462	228	736786	16.100	ng	100
33) Chrysene	21.515	228	654893	14.952	ng	98
34) Bis(2-ethylhexyl)phtha...	21.336	149	323492	9.253	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.487	276	601257	10.201	ng	96
37) Benzo(b)fluoranthene	23.171	252	1058474	23.162	ng	# 89
39) Benzo(a)pyrene	23.978	252	205103	4.512	ng	99
40) Dibenzo(a,h)anthracene	26.493	278	146215	3.056	ng	100
41) Benzo(g,h,i)perylene	27.294	276	626724	12.685	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102423\
Data File : BN028389.D
Acq On : 25 Oct 2023 00:14
Operator : MA/JU
Sample : 04938-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

Quant Time: Oct 25 01:08:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN101223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 23 15:14:08 2023
Response via : Initial Calibration

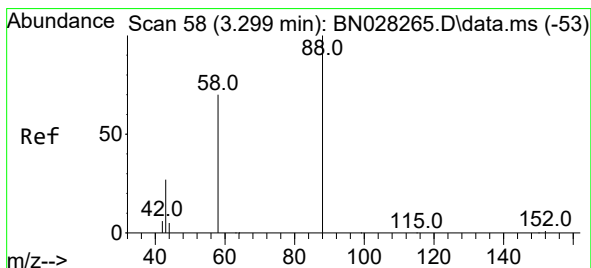
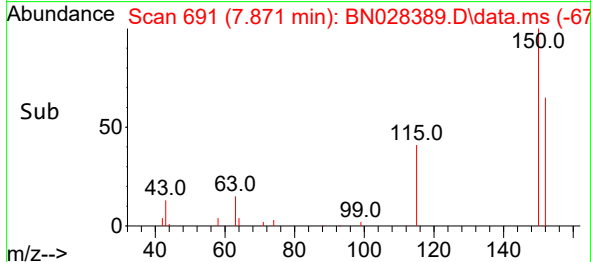
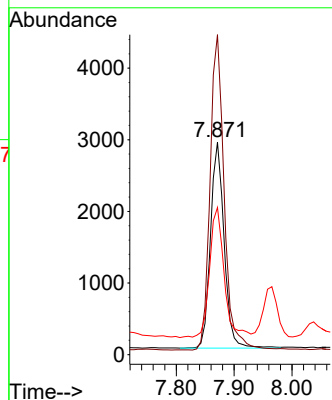
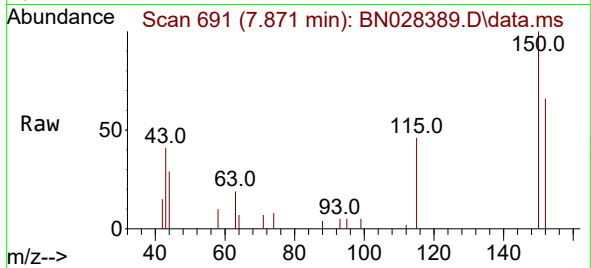




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.871 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

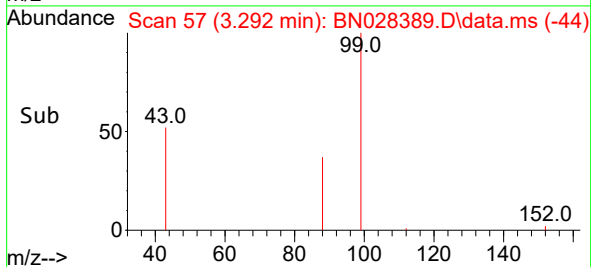
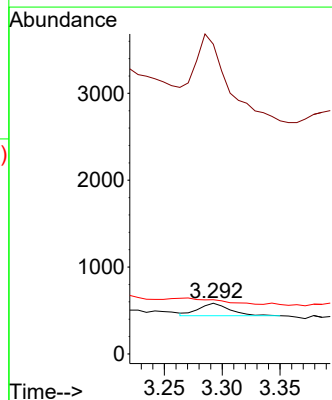
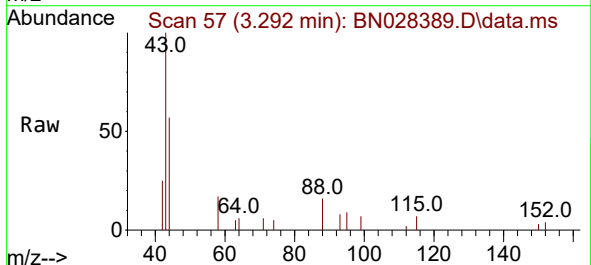
Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

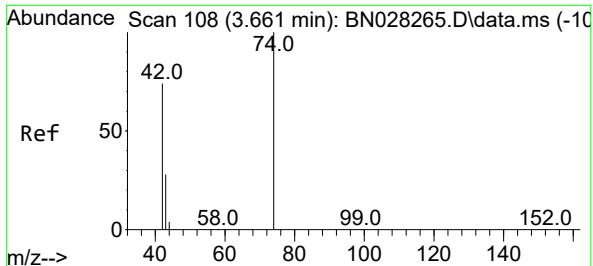
Tgt Ion:152 Resp: 4733
Ion Ratio Lower Upper
152 100
150 150.6 121.6 182.4
115 69.3 54.3 81.5



#2
1,4-Dioxane
Concen: 0.047 ng
RT: 3.292 min Scan# 57
Delta R.T. -0.007 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion: 88 Resp: 270
Ion Ratio Lower Upper
88 100
43 738.5 26.6 39.8#
58 0.0 55.4 83.0#

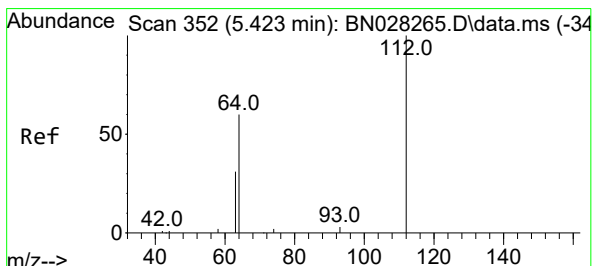
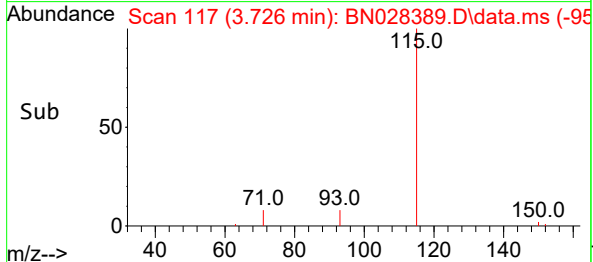
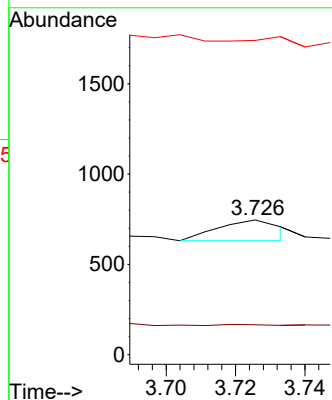
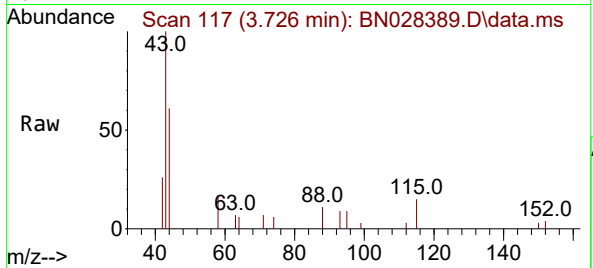




#3
n-Nitrosodimethylamine
Concen: 0.023 ng
RT: 3.726 min Scan# 117
Delta R.T. 0.058 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

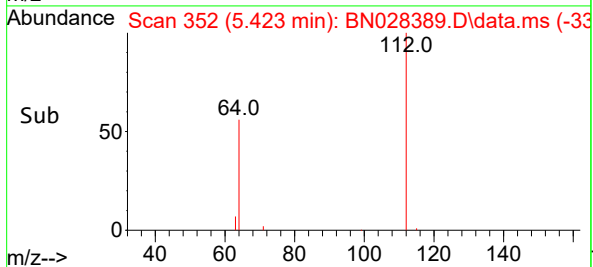
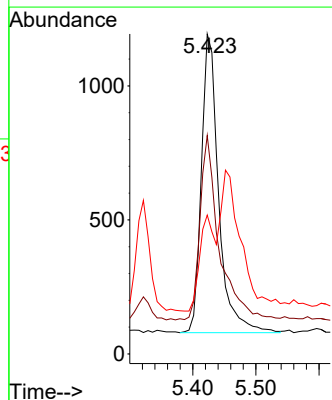
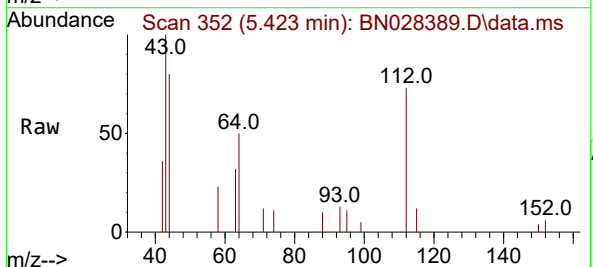
Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

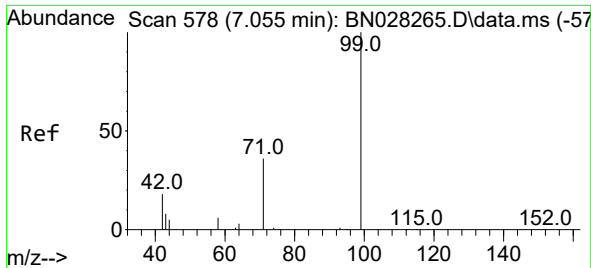
Tgt Ion: 42 Resp: 144
Ion Ratio Lower Upper
42 100
74 4.2 112.6 168.8#
44 0.0 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.423 min Scan# 352
Delta R.T. -0.007 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion: 112 Resp: 2111
Ion Ratio Lower Upper
112 100
64 68.7 46.9 70.3
63 28.8 25.0 37.4

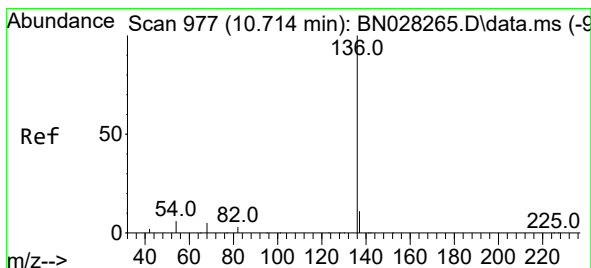
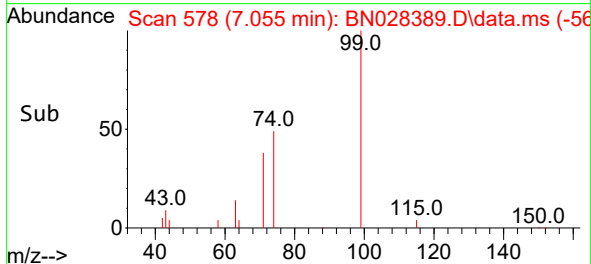
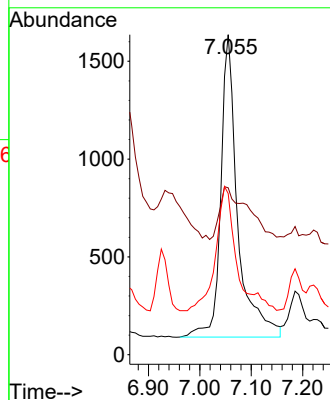
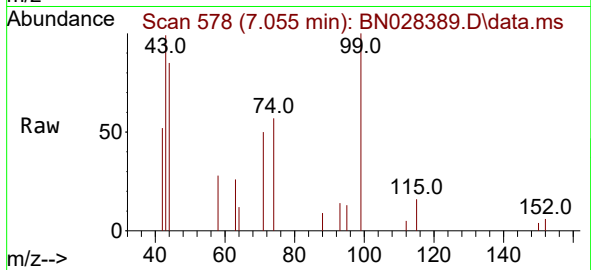




#5
Phenol-d6
Concen: 0.195 ng
RT: 7.055 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

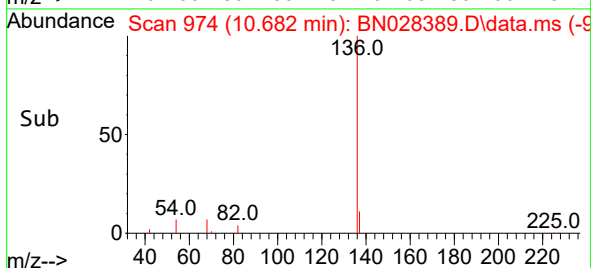
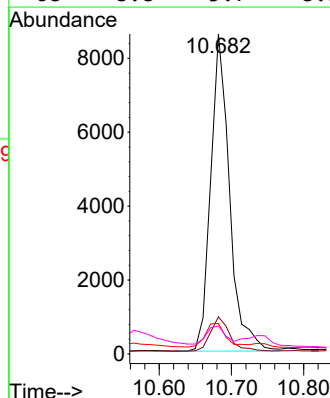
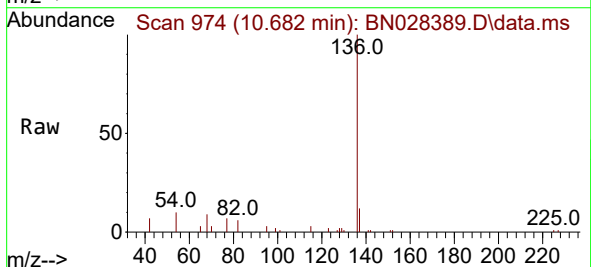
Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

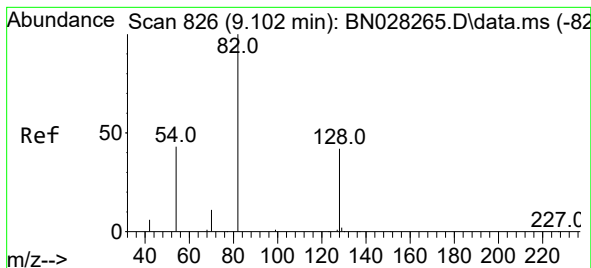
Tgt Ion: 99 Resp: 3533
Ion Ratio Lower Upper
99 100
42 29.0 15.9 23.9#
71 50.5 28.6 42.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion: 136 Resp: 15550
Ion Ratio Lower Upper
136 100
137 11.6 9.8 14.8
54 9.5 6.2 9.4#
68 8.8 5.7 8.5#





#8

Nitrobenzene-d5

Concen: 0.204 ng

RT: 9.070 min Scan# 81

Delta R.T. -0.032 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

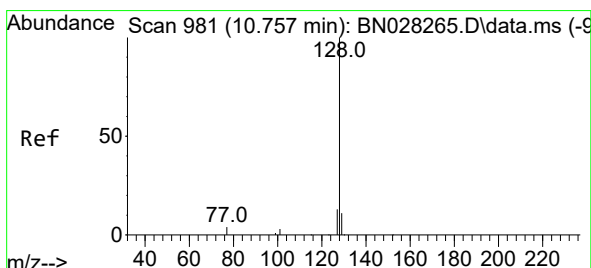
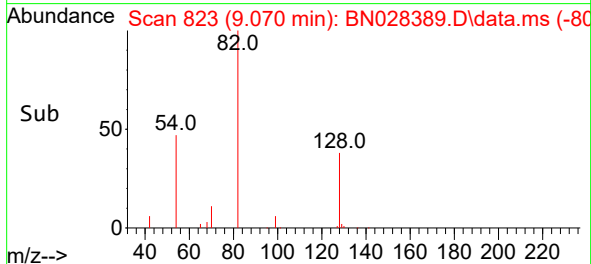
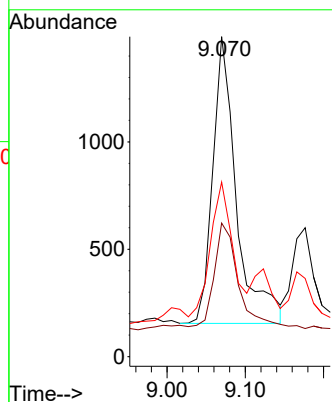
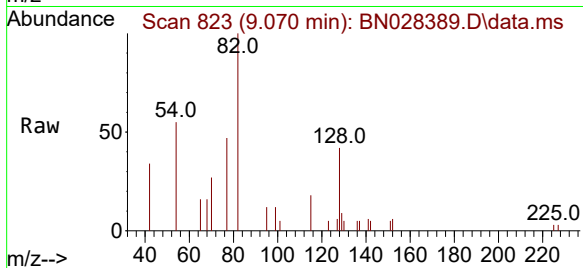
Tgt Ion: 82 Resp: 2809

Ion Ratio Lower Upper

82 100

128 41.7 36.8 55.2

54 54.6 37.4 56.2



#9

Naphthalene

Concen: 1.339 ng

RT: 10.735 min Scan# 979

Delta R.T. -0.021 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

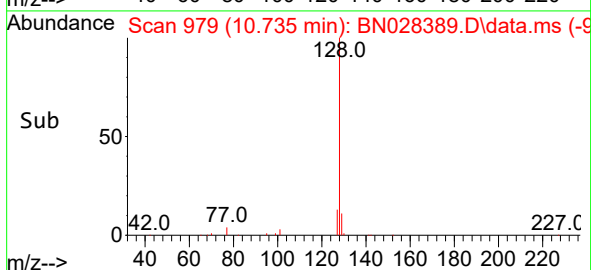
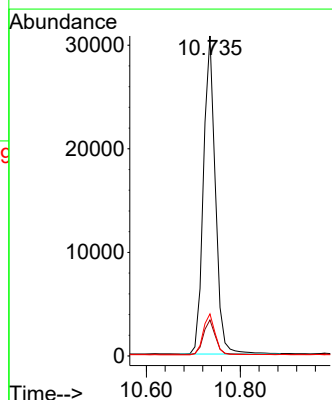
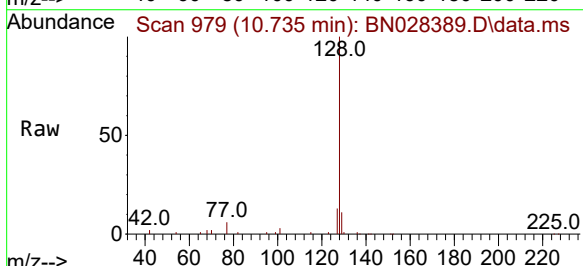
Tgt Ion: 128 Resp: 54021

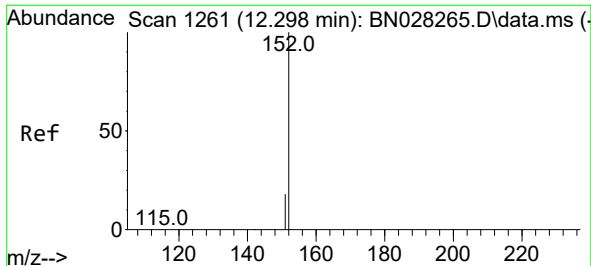
Ion Ratio Lower Upper

128 100

129 11.2 9.8 14.6

127 13.2 11.4 17.0

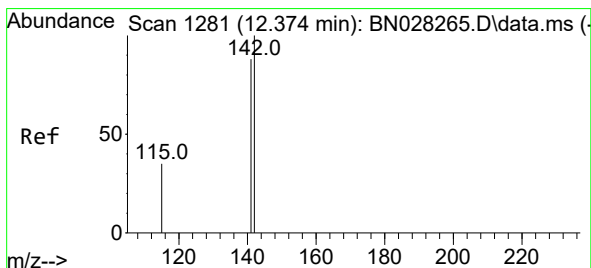
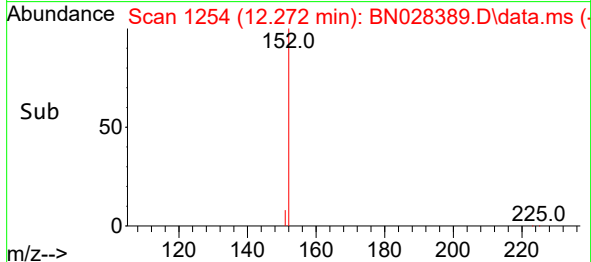
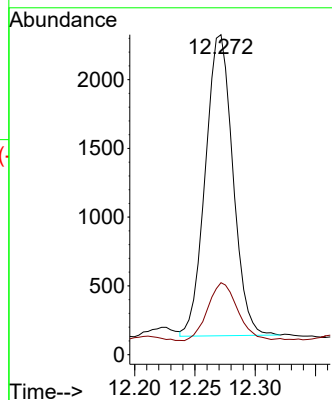
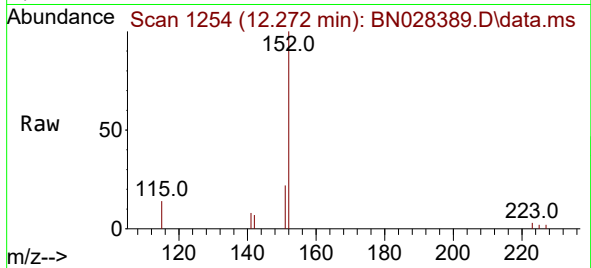




#11
2-Methylnaphthalene-d10
Concen: 0.149 ng
RT: 12.272 min Scan# 11
Delta R.T. -0.022 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

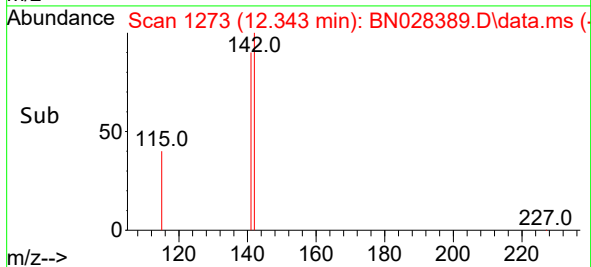
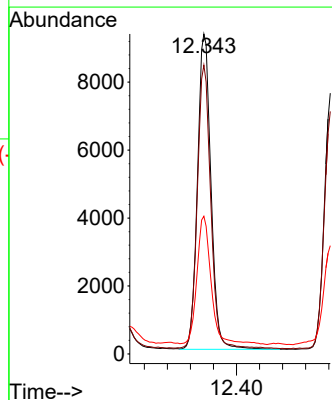
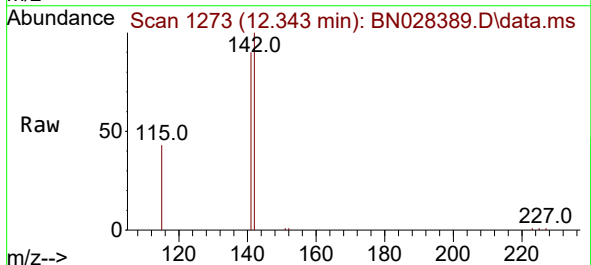
Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

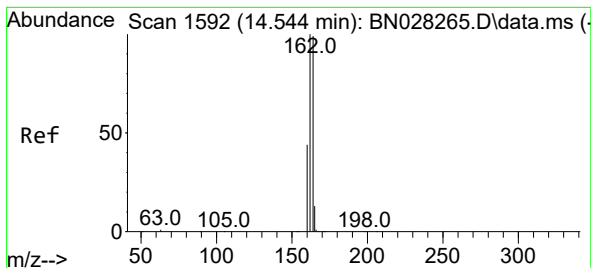
Tgt Ion:152 Resp: 3478
Ion Ratio Lower Upper
152 100
151 21.0 16.1 24.1



#12
2-Methylnaphthalene
Concen: 0.524 ng
RT: 12.343 min Scan# 1273
Delta R.T. -0.026 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion:142 Resp: 15029
Ion Ratio Lower Upper
142 100
141 90.2 71.1 106.7
115 43.1 29.9 44.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.523 min Scan# 1590

Delta R.T. -0.010 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

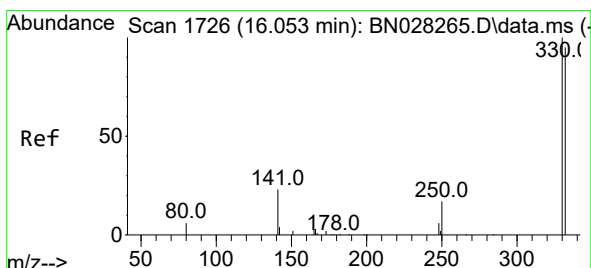
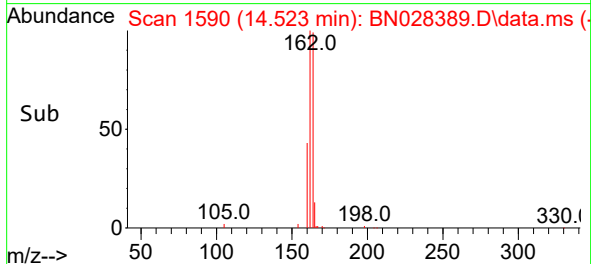
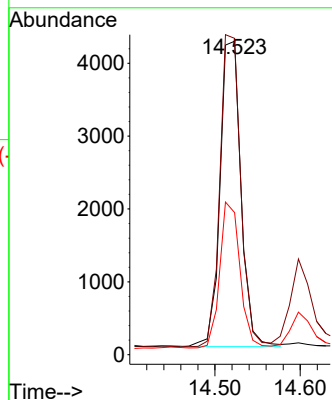
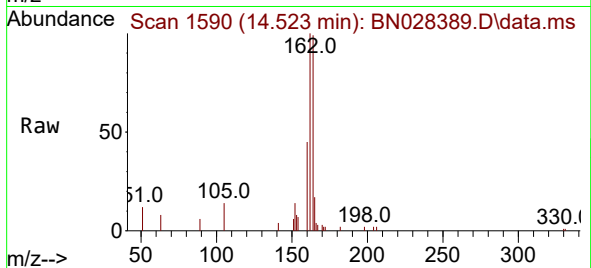
Tgt Ion:164 Resp: 7148

Ion Ratio Lower Upper

164 100

162 100.9 81.1 121.7

160 45.3 36.6 54.8



#14

2,4,6-Tribromophenol

Concen: 0.164 ng

RT: 16.028 min Scan# 1724

Delta R.T. -0.037 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

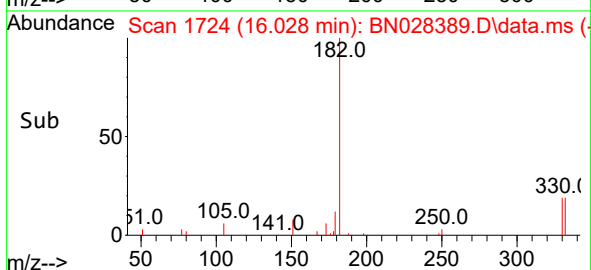
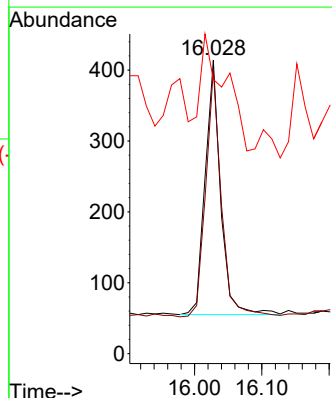
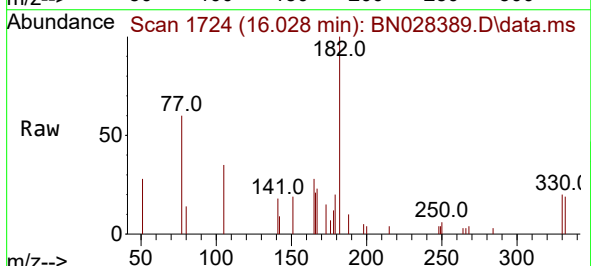
Tgt Ion:330 Resp: 573

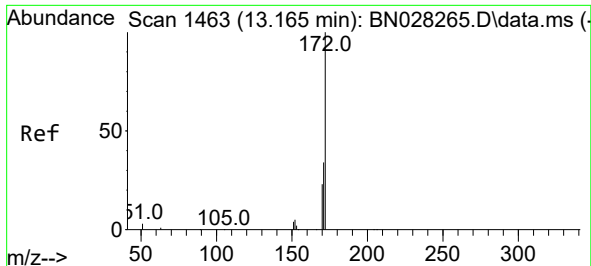
Ion Ratio Lower Upper

330 100

332 98.4 74.1 111.1

141 72.3 32.1 48.1#

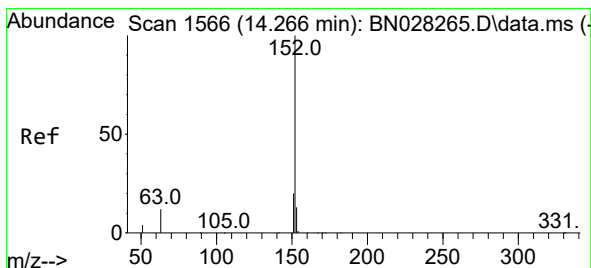
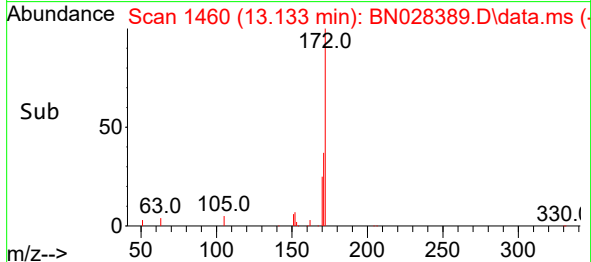
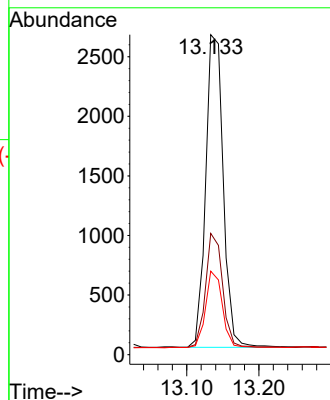
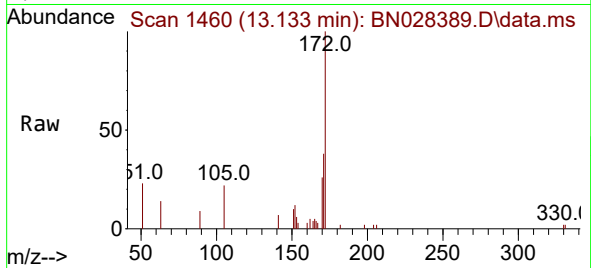




#15
2-Fluorobiphenyl
Concen: 0.177 ng
RT: 13.133 min Scan# 1460
Delta R.T. -0.032 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

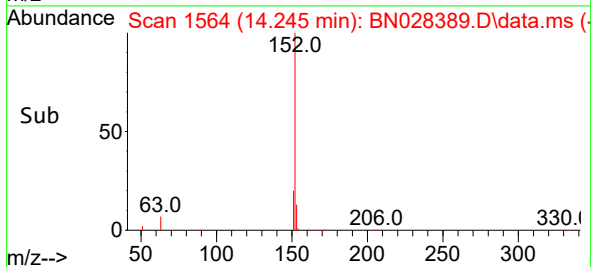
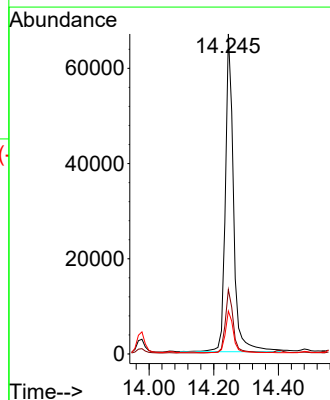
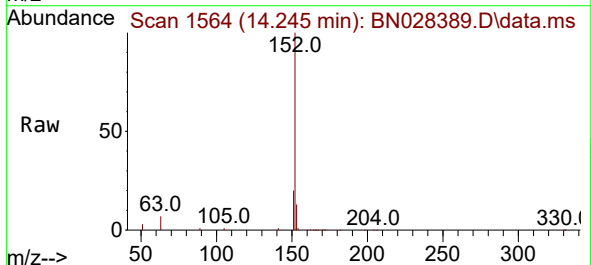
Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

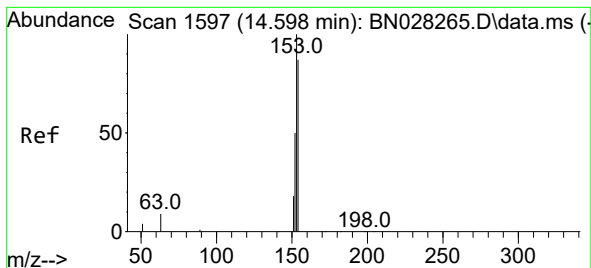
Tgt Ion:172 Resp: 4452
Ion Ratio Lower Upper
172 100
171 37.9 28.3 42.5
170 26.1 18.7 28.1



#16
Acenaphthylene
Concen: 3.671 ng
RT: 14.245 min Scan# 1564
Delta R.T. -0.010 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion:152 Resp: 117924
Ion Ratio Lower Upper
152 100
151 19.4 15.6 23.4
153 12.7 10.6 16.0





#17

Acenaphthene

Concen: 1.299 ng

RT: 14.587 min Scan# 1596

Delta R.T. -0.011 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

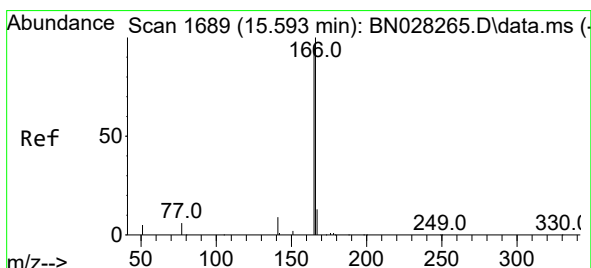
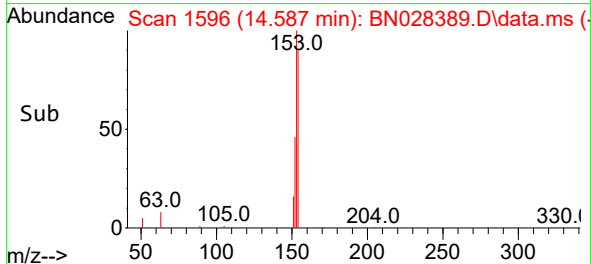
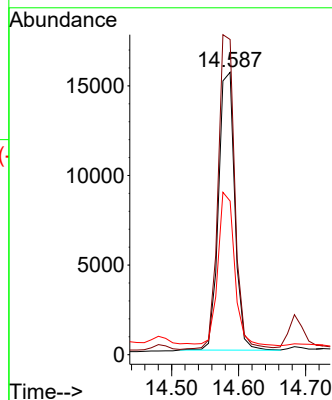
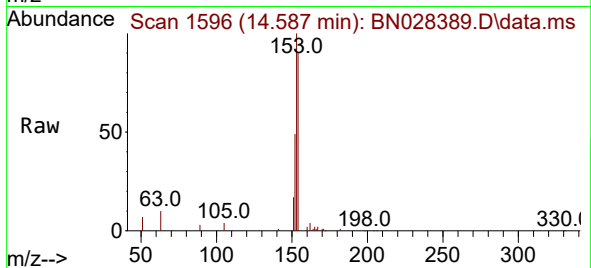
Tgt Ion:154 Resp: 26281

Ion Ratio Lower Upper

154 100

153 115.7 90.7 136.1

152 56.6 43.6 65.4



#18

Fluorene

Concen: 1.309 ng

RT: 15.569 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

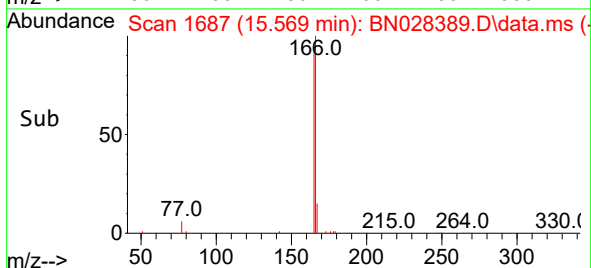
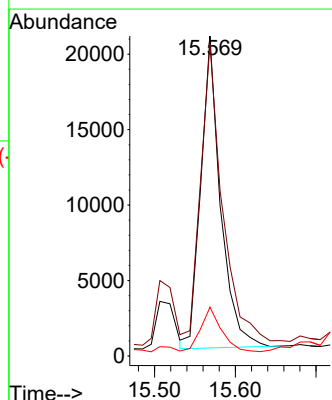
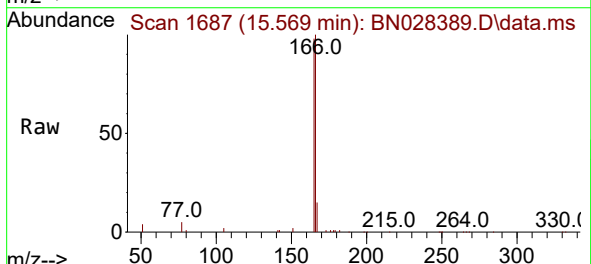
Tgt Ion:166 Resp: 34877

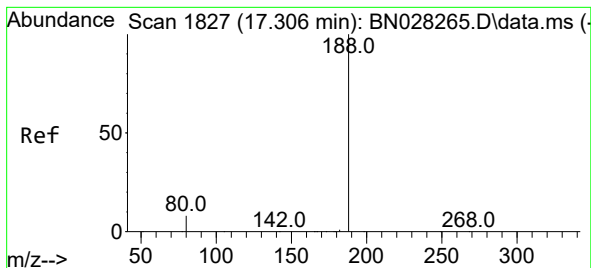
Ion Ratio Lower Upper

166 100

165 107.0 79.3 118.9

167 14.9 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.282 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

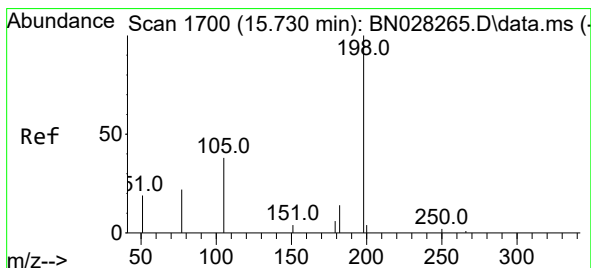
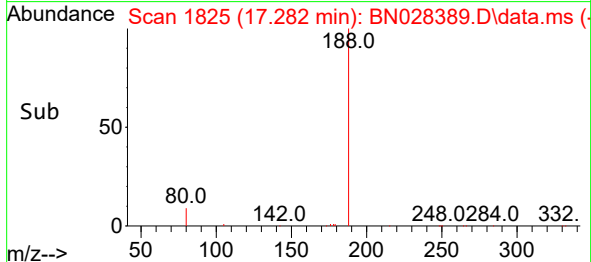
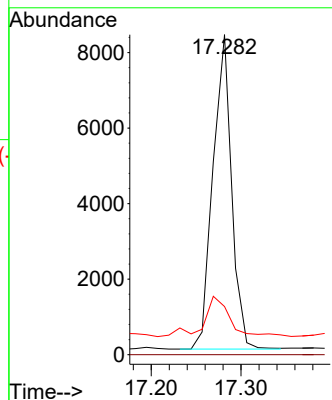
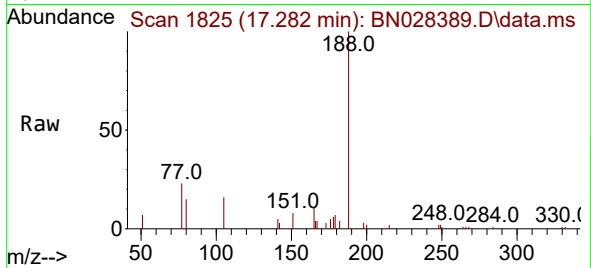
Tgt Ion:188 Resp: 12018

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.0 7.1 10.7#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.194 ng

RT: 15.780 min Scan# 1704

Delta R.T. -0.025 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

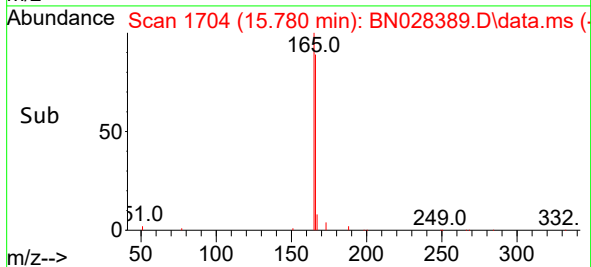
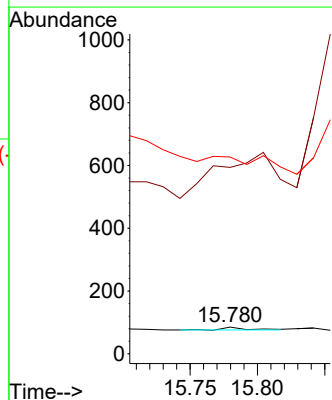
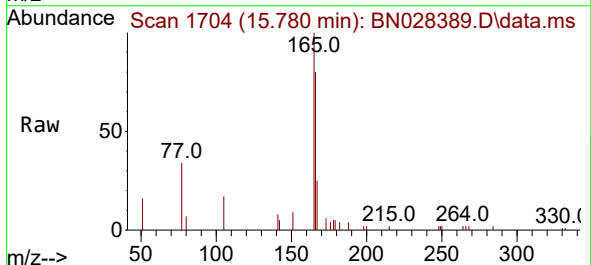
Tgt Ion:198 Resp: 11

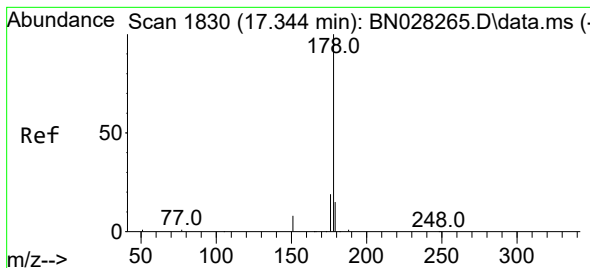
Ion Ratio Lower Upper

198 100

51 698.8 96.1 144.1#

105 737.6 75.4 113.0#





#25

Phenanthrene

Concen: 17.659 ng

RT: 17.319 min Scan# 1828

Delta R.T. -0.012 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

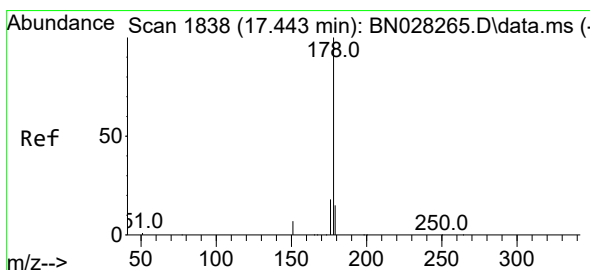
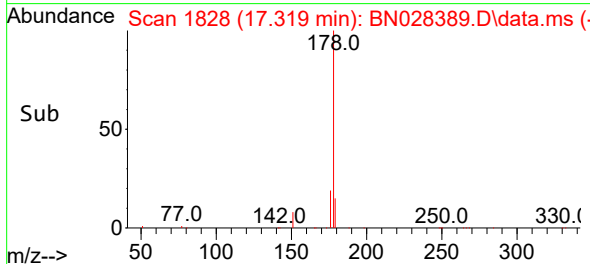
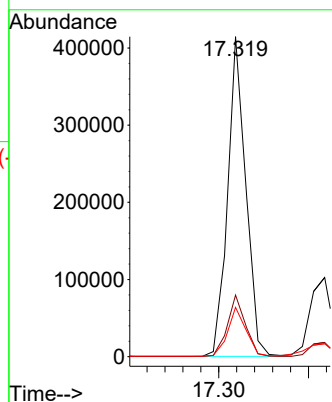
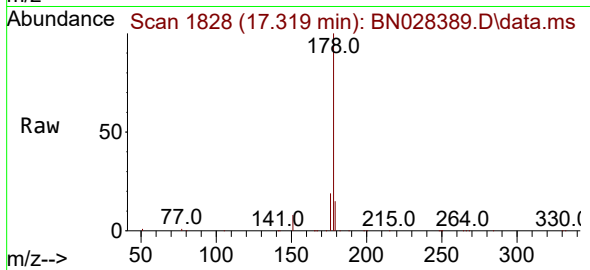
Tgt Ion:178 Resp: 580929

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.5 12.5 18.7



#26

Anthracene

Concen: 5.226 ng

RT: 17.418 min Scan# 1836

Delta R.T. -0.012 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

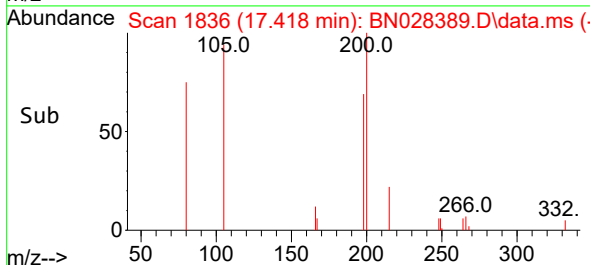
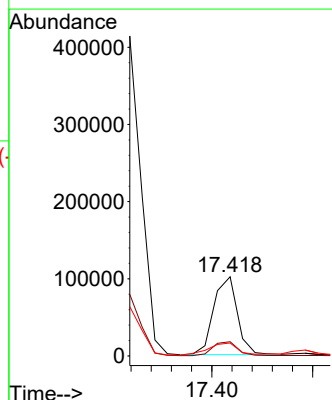
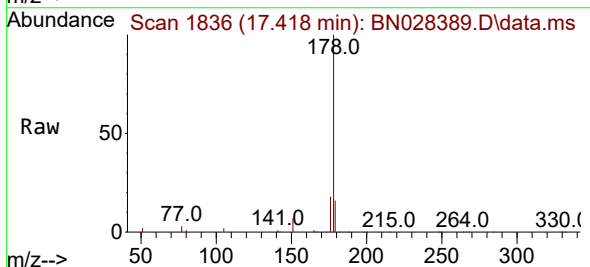
Tgt Ion:178 Resp: 164214

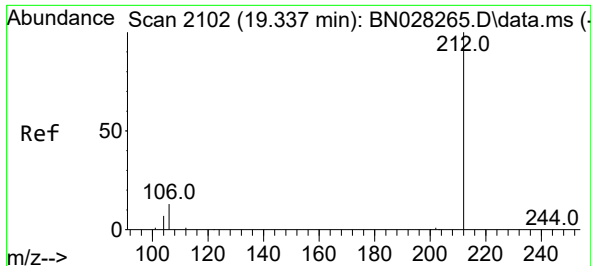
Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

179 19.2 12.2 18.4#





#27

Fluoranthene-d10

Concen: 0.131 ng

RT: 19.319 min Scan# 2102

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

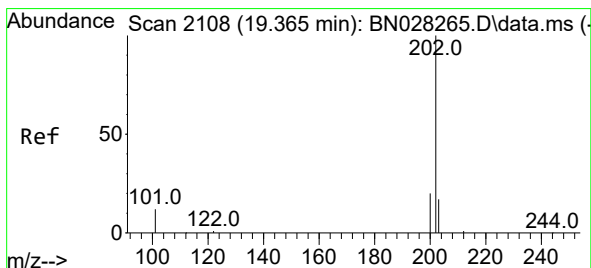
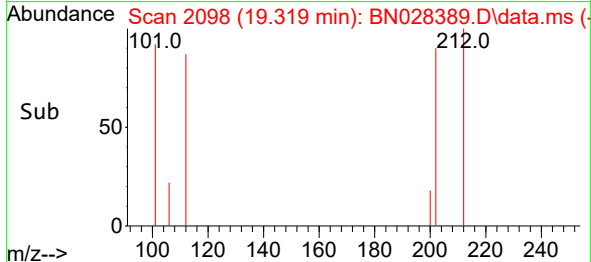
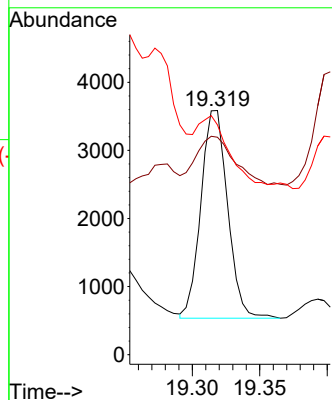
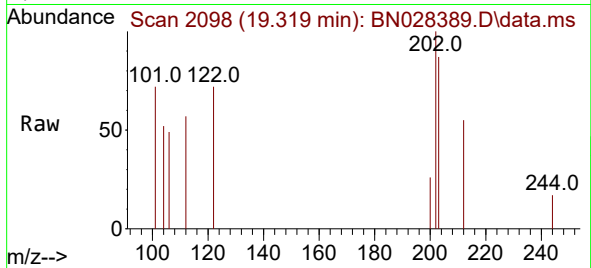
Tgt Ion:212 Resp: 4213

Ion Ratio Lower Upper

212 100

106 33.5 11.5 17.3#

104 0.0 6.7 10.1#



#28

Fluoranthene

Concen: 31.311 ng

RT: 19.347 min Scan# 2104

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

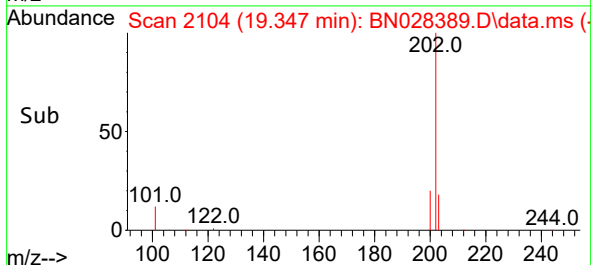
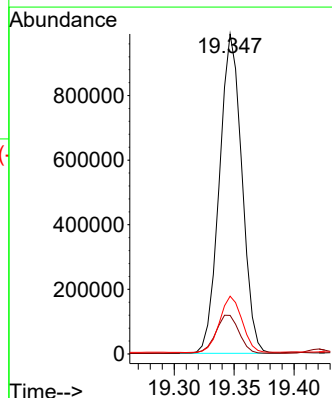
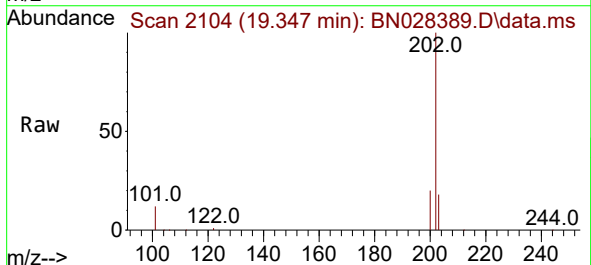
Tgt Ion:202 Resp: 1294029

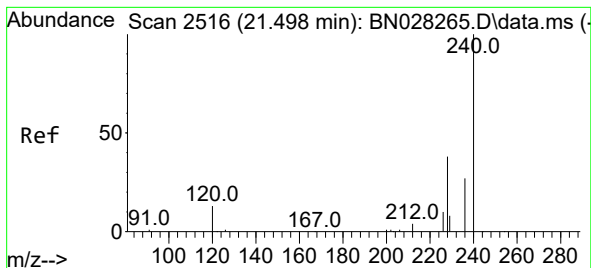
Ion Ratio Lower Upper

202 100

101 12.7 10.1 15.1

203 17.6 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.480 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

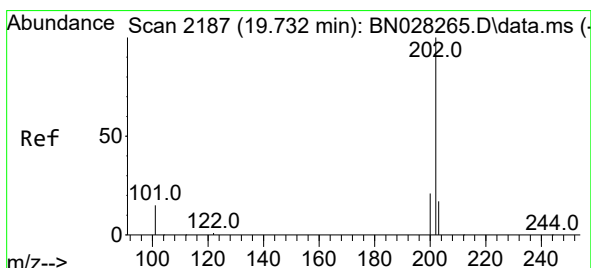
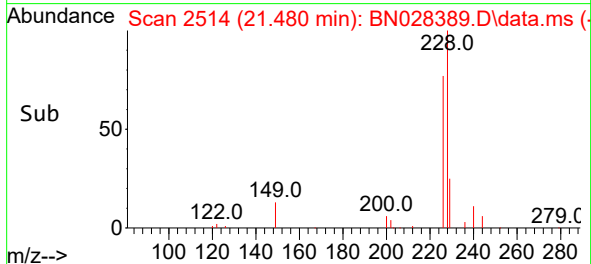
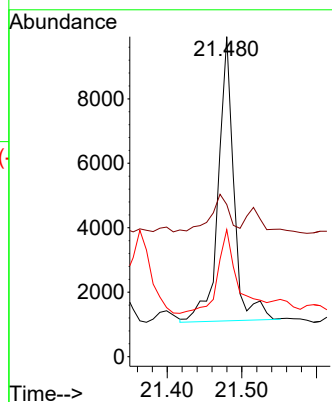
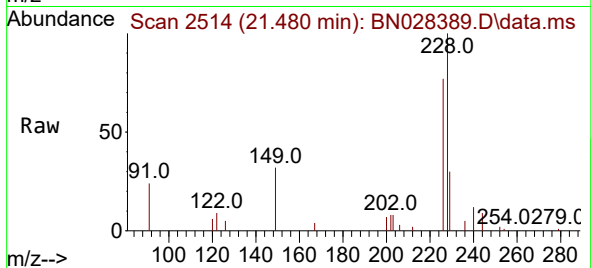
Tgt Ion:240 Resp: 12882

Ion Ratio Lower Upper

240 100

120 47.5 13.4 20.0#

236 39.7 22.7 34.1#



#30

Pyrene

Concen: 28.382 ng

RT: 19.718 min Scan# 2184

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

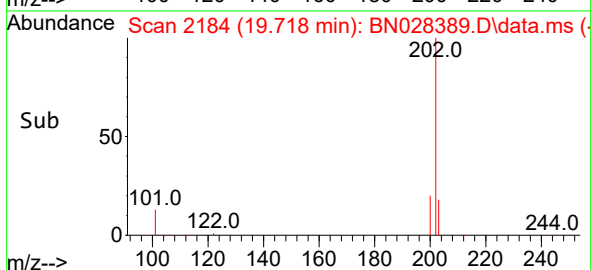
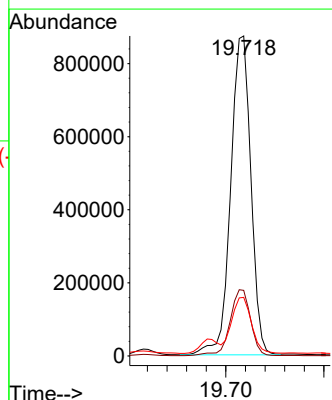
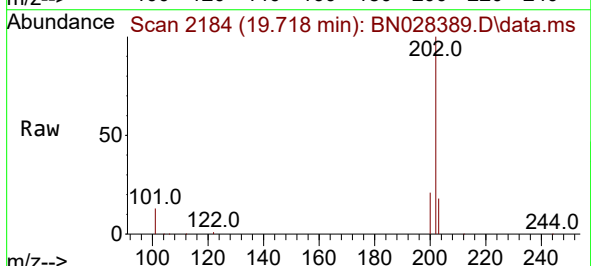
Tgt Ion:202 Resp: 1251068

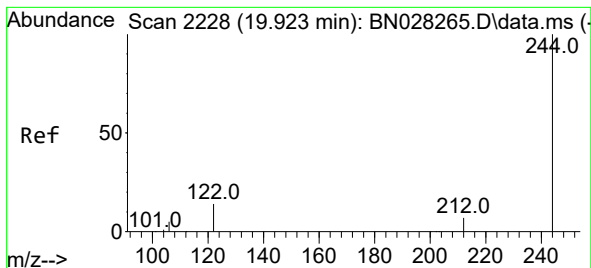
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.1 14.5 21.7





#31

Terphenyl-d14

Concen: 0.164 ng

RT: 19.904 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

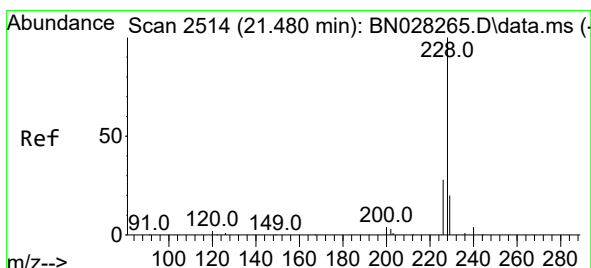
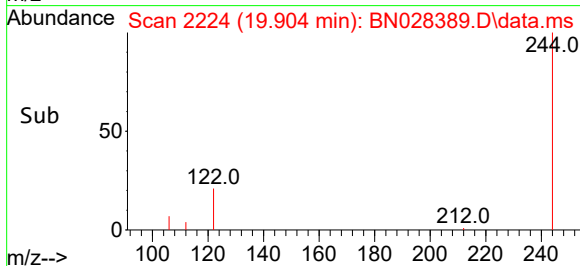
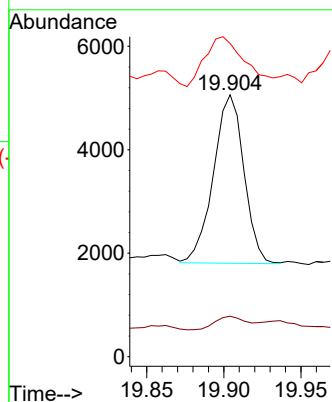
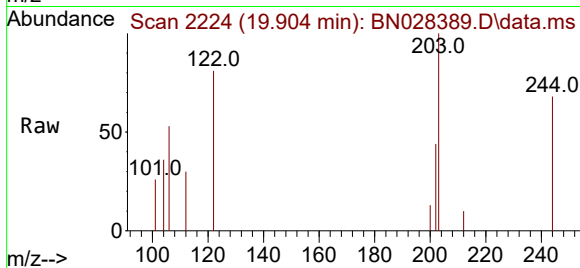
Tgt Ion:244 Resp: 4473

Ion Ratio Lower Upper

244 100

212 15.5 6.6 10.0#

122 119.6 11.7 17.5#



#32

Benzo(a)anthracene

Concen: 16.100 ng

RT: 21.462 min Scan# 2512

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

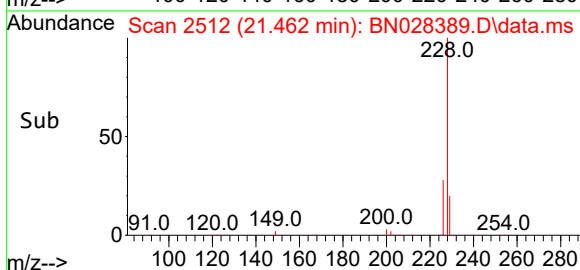
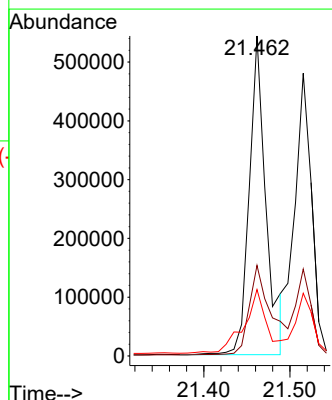
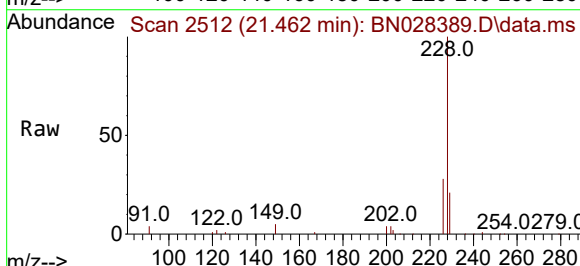
Tgt Ion:228 Resp: 736786

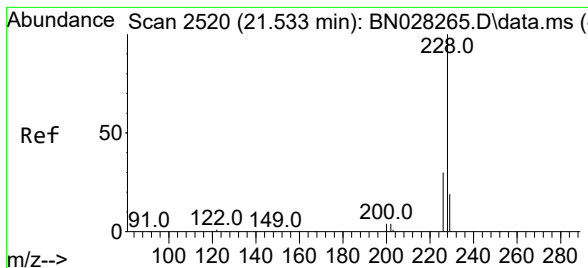
Ion Ratio Lower Upper

228 100

226 28.3 22.9 34.3

229 20.8 16.6 24.8





#33

Chrysene

Concen: 14.952 ng

RT: 21.515 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

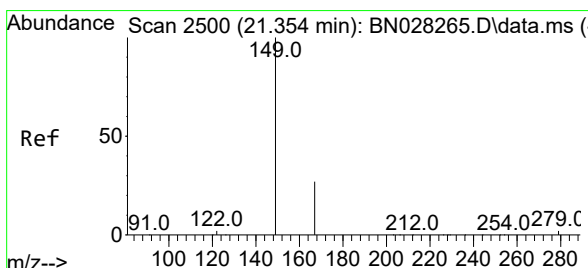
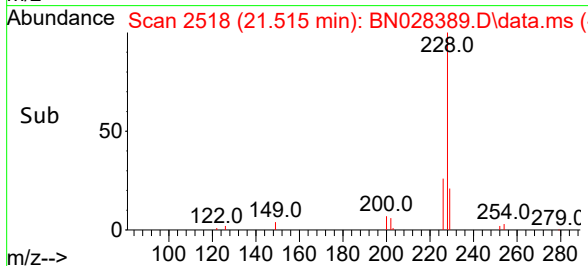
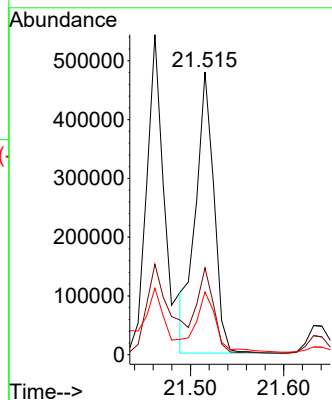
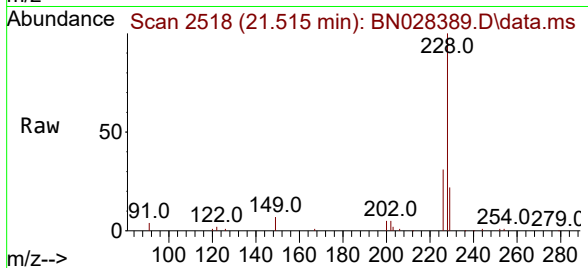
Tgt Ion:228 Resp: 654893

Ion Ratio Lower Upper

228 100

226 30.7 25.2 37.8

229 22.2 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 9.253 ng

RT: 21.336 min Scan# 2498

Delta R.T. -0.009 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

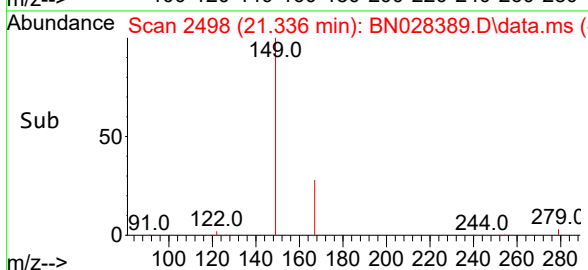
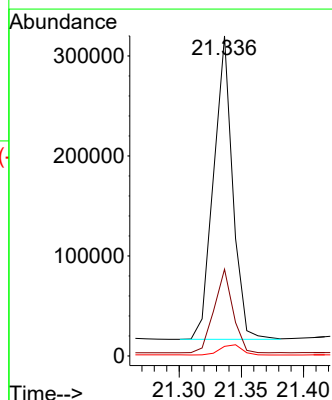
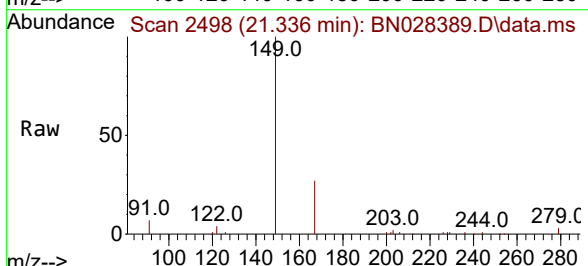
Tgt Ion:149 Resp: 323492

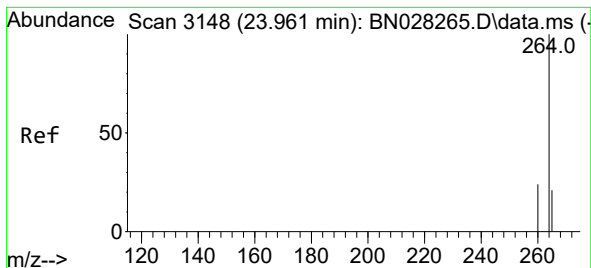
Ion Ratio Lower Upper

149 100

167 27.1 22.6 34.0

279 3.8 4.2 6.2#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.926 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

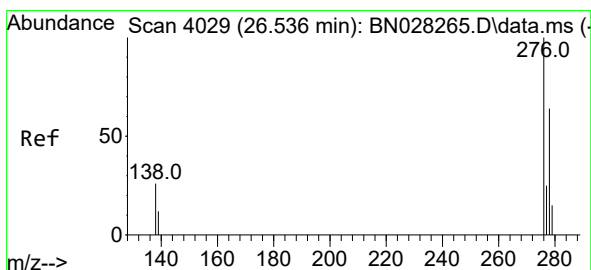
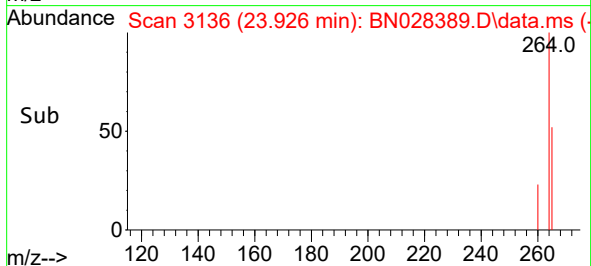
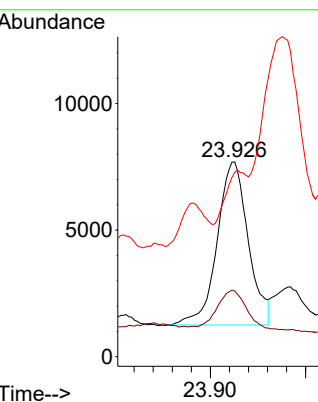
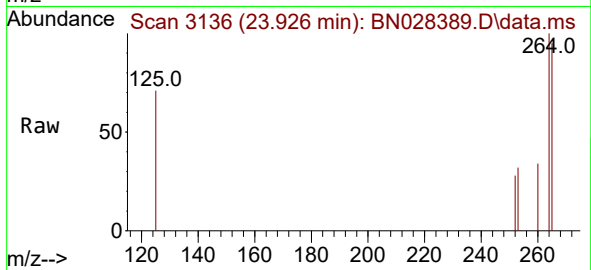
Tgt Ion:264 Resp: 14620

Ion Ratio Lower Upper

264 100

260 33.8 20.7 31.1#

265 94.6 38.3 57.5#



#36

Indeno(1,2,3-cd)pyrene

Concen: 10.201 ng

RT: 26.487 min Scan# 4012

Delta R.T. -0.017 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

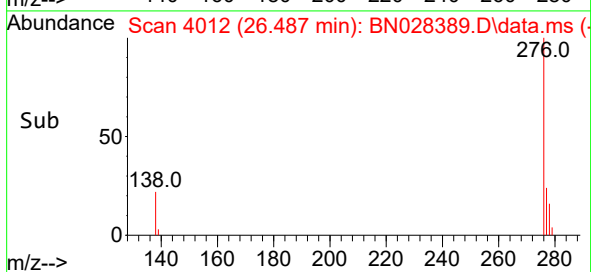
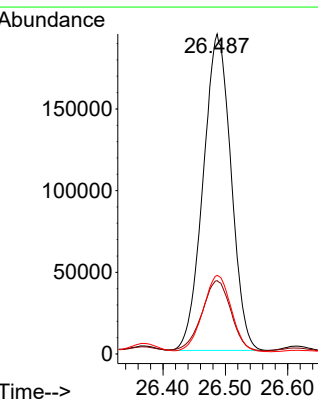
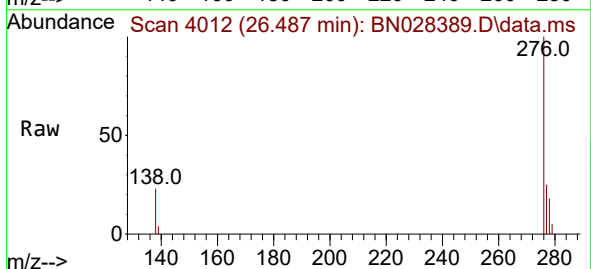
Tgt Ion:276 Resp: 601257

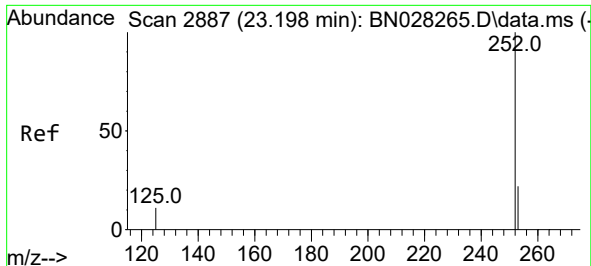
Ion Ratio Lower Upper

276 100

138 22.9 21.3 31.9

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 23.162 ng

RT: 23.171 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

Instrument :

BNA_N

ClientSampleId :

A-3(0-2)

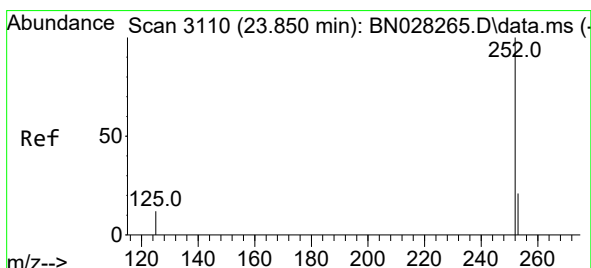
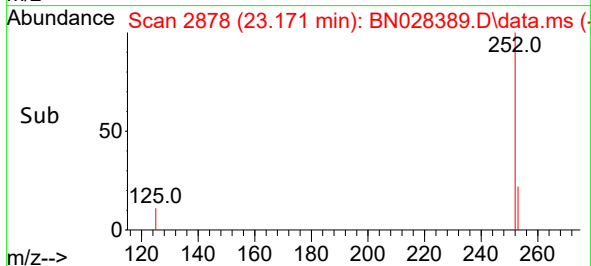
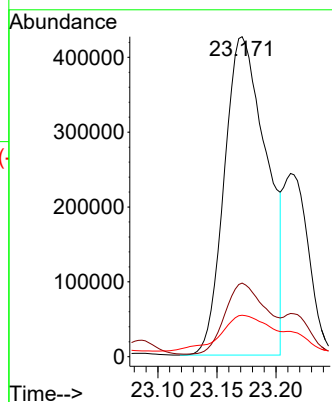
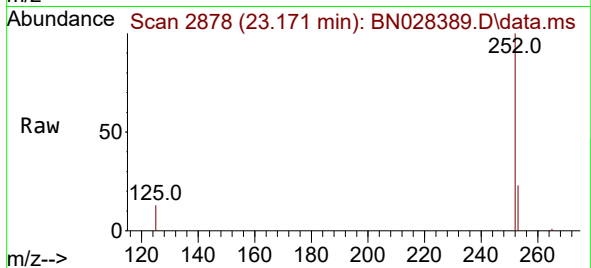
Tgt Ion:252 Resp: 1058474

Ion Ratio Lower Upper

252 100

253 23.0 21.8 32.8

125 12.9 15.6 23.4#



#39

Benzo(a)pyrene

Concen: 4.512 ng

RT: 23.978 min Scan# 3154

Delta R.T. 0.149 min

Lab File: BN028389.D

Acq: 25 Oct 2023 00:14

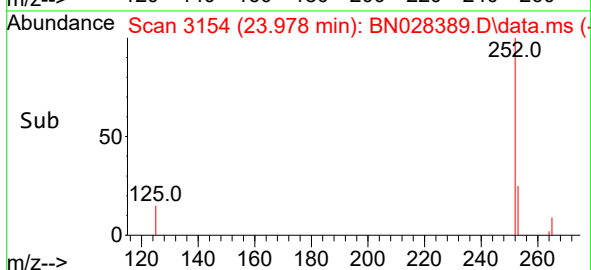
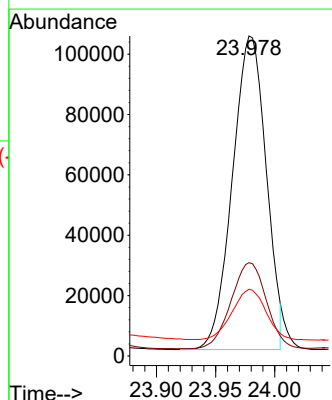
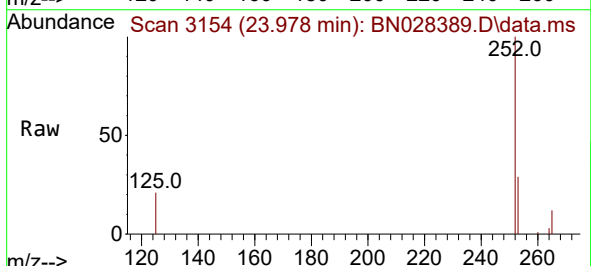
Tgt Ion:252 Resp: 205103

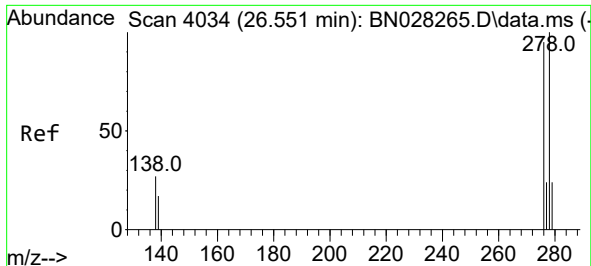
Ion Ratio Lower Upper

252 100

253 29.1 22.7 34.1

125 20.8 17.0 25.6

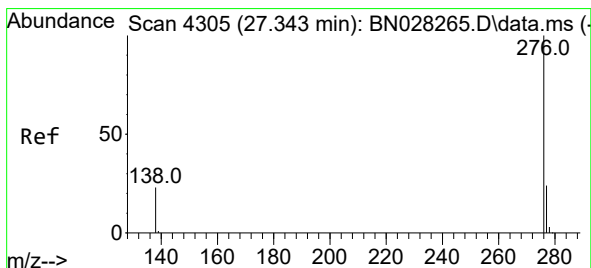
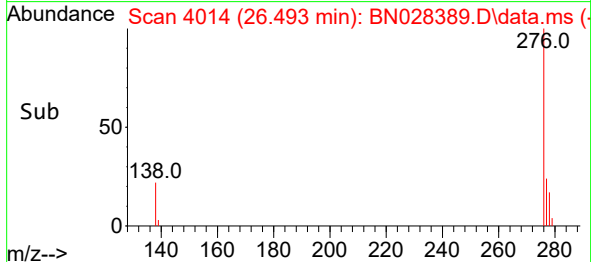
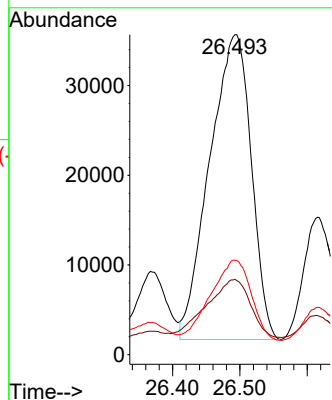
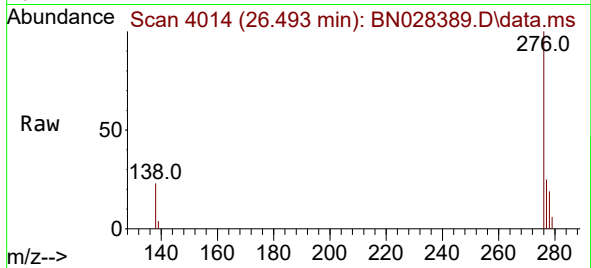




#40
Dibenzo(a,h)anthracene
Concen: 3.056 ng
RT: 26.493 min Scan# 40
Delta R.T. -0.026 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Instrument :
BNA_N
ClientSampleId :
A-3(0-2)

Tgt Ion:278 Resp: 146215
Ion Ratio Lower Upper
278 100
139 23.6 18.8 28.2
279 29.5 23.5 35.3



#41
Benzo(g,h,i)perylene
Concen: 12.685 ng
RT: 27.294 min Scan# 4288
Delta R.T. -0.012 min
Lab File: BN028389.D
Acq: 25 Oct 2023 00:14

Tgt Ion:276 Resp: 626724
Ion Ratio Lower Upper
276 100
277 24.6 21.7 32.5
138 24.3 21.7 32.5

