

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028222.D
 Acq On : 11 Oct 2023 07:10
 Operator : MA/JU
 Sample : 04767-02
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 E-1(0-5)

Quant Time: Oct 11 07:42:38 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 10 00:42:22 2023
 Response via : Initial Calibration

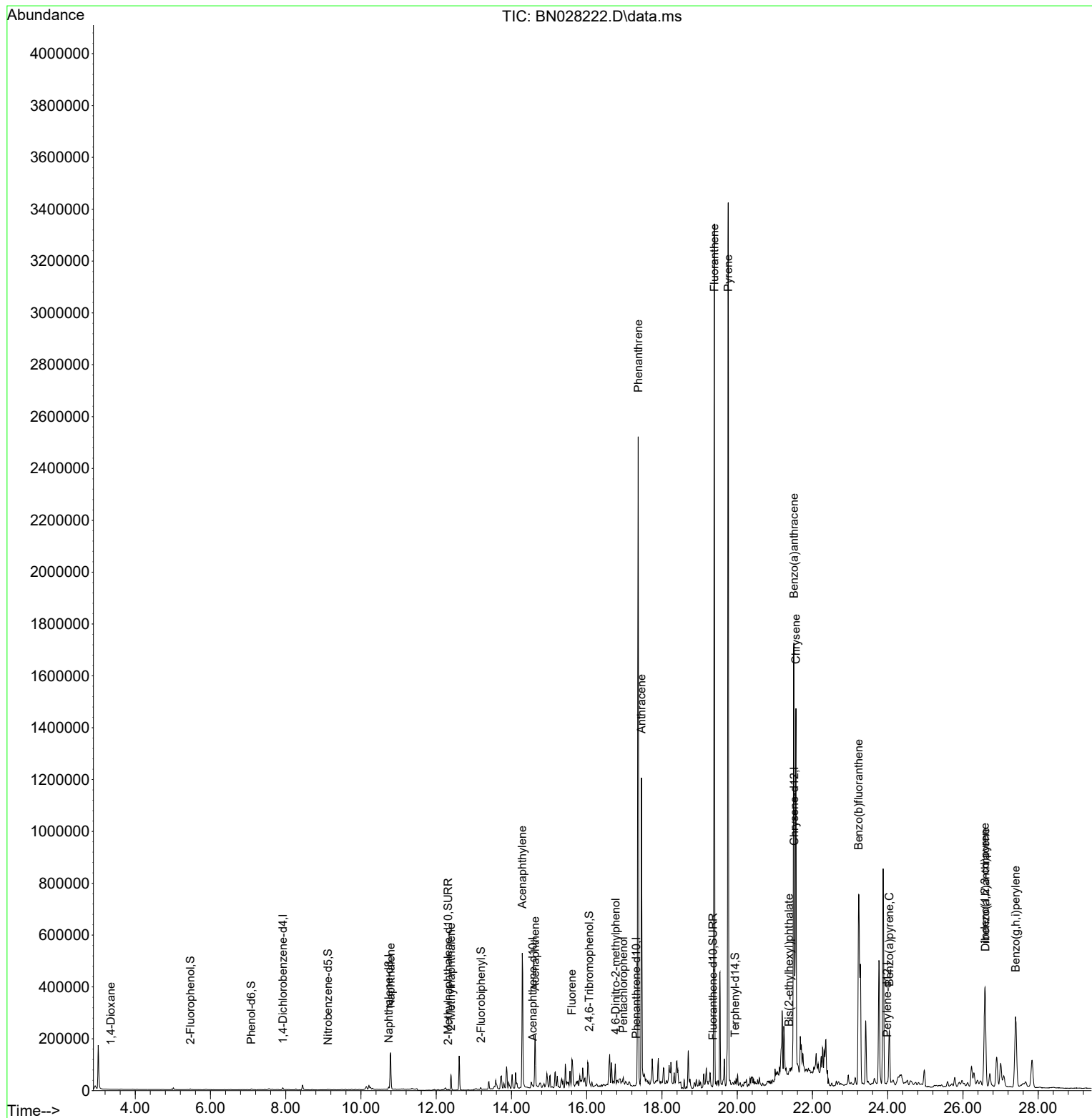
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.921	152	3548	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	11347	0.400	ng	0.00
13) Acenaphthene-d10	14.565	164	6789	0.400	ng	0.00
19) Phenanthrene-d10	17.318	188	12118	0.400	ng	# 0.00
29) Chrysene-d12	21.515	240	14176	0.400	ng	# 0.00
35) Perylene-d12	23.990	264	16443	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	2590	0.245	ng	0.00
5) Phenol-d6	7.084	99	3096	0.232	ng	0.00
8) Nitrobenzene-d5	9.123	82	2628	0.272	ng	0.00
11) 2-Methylnaphthalene-d10	12.317	152	4019	0.239	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	687	0.221	ng	-0.01
15) 2-Fluorobiphenyl	13.186	172	5770	0.236	ng	0.00
27) Fluoranthene-d10	19.356	212	7726	0.254	ng	0.00
31) Terphenyl-d14	19.941	244	8637	0.261	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.350	88	98	0.025	ng	# 53
9) Naphthalene	10.788	128	192800	6.576	ng	98
12) 2-Methylnaphthalene	12.392	142	40654	1.982	ng	97
16) Acenaphthylene	14.288	152	631825	21.008	ng	99
17) Acenaphthene	14.630	154	112691	5.878	ng	99
18) Fluorene	15.606	166	96348	3.870	ng	# 88
20) 4,6-Dinitro-2-methylph...	16.772	198	502	3.117	ng	# 44
24) Pentachlorophenol	16.971	266	67	0.021	ng	# 61
25) Phenanthrene	17.368	178	2533472	77.548	ng	99
26) Anthracene	17.455	178	1183340	38.321	ng	96
28) Fluoranthene	19.393	202	3054012	81.001	ng	98
30) Pyrene	19.760	202	3062726	58.919	ng	97
32) Benzo(a)anthracene	21.506	228	1616572	33.512	ng	96
33) Chrysene	21.560	228	1311044	28.202	ng	97
34) Bis(2-ethylhexyl)phtha...	21.372	149	7316	0.231	ng	# 68
36) Indeno(1,2,3-cd)pyrene	26.586	276	665588	12.034	ng	97
37) Benzo(b)fluoranthene	23.229	252	1470446	27.689	ng	# 89
39) Benzo(a)pyrene	24.042	252	271332	5.403	ng	95
40) Dibenzo(a,h)anthracene	26.595	278	199435	4.408	ng	99
41) Benzo(g,h,i)perylene	27.399	276	631142	13.590	ng	96

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

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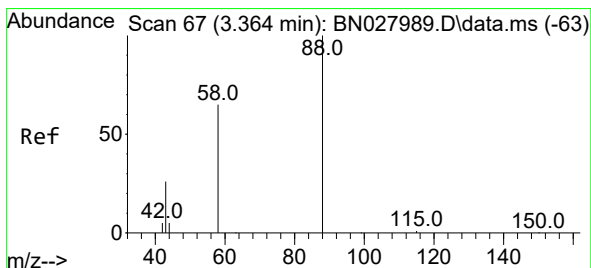
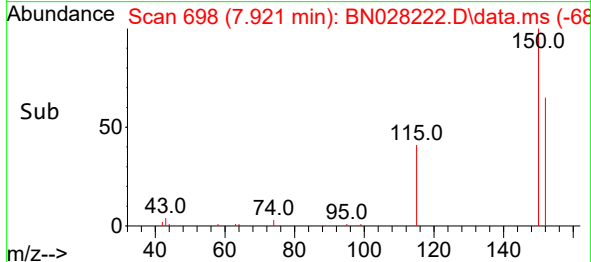
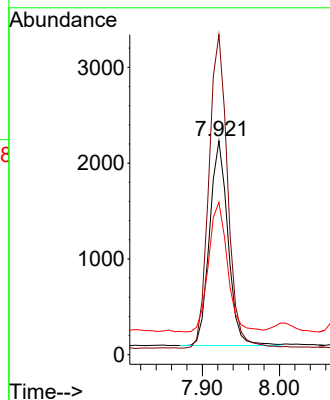
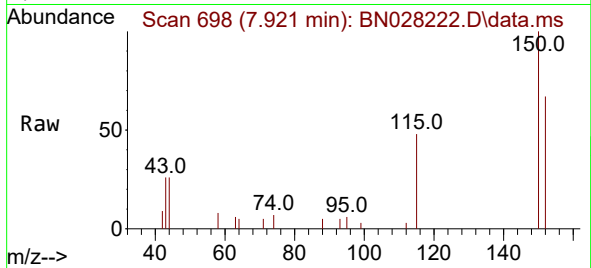




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.921 min Scan# 61
 Delta R.T. -0.001 min
 Lab File: BN028222.D
 Acq: 11 Oct 2023 07:10

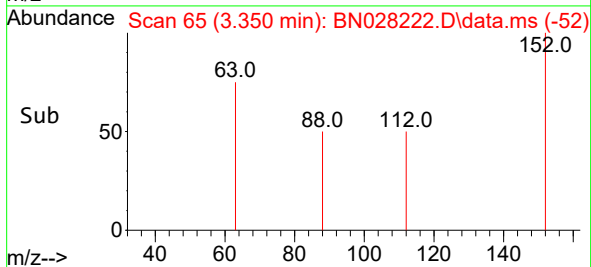
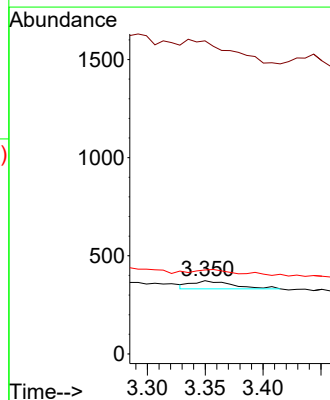
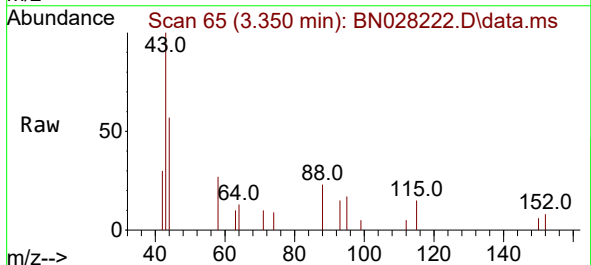
Instrument :
 BNA_N
 ClientSampleId :
 E-1(0-5)

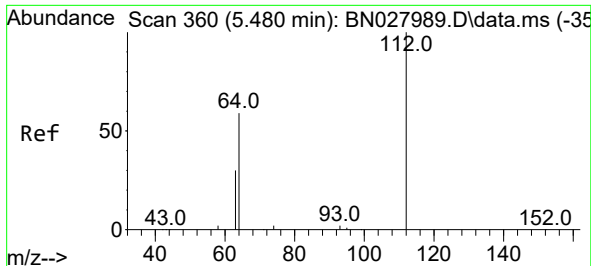
Tgt Ion:152 Resp: 3548
 Ion Ratio Lower Upper
 152 100
 150 149.7 125.6 188.4
 115 71.2 54.8 82.2



#2
 1,4-Dioxane
 Concen: 0.025 ng
 RT: 3.350 min Scan# 65
 Delta R.T. -0.007 min
 Lab File: BN028222.D
 Acq: 11 Oct 2023 07:10

Tgt Ion: 88 Resp: 98
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.6 36.8#
 58 32.7 53.8 80.6#





#4

2-Fluorophenol

Concen: 0.245 ng

RT: 5.466 min Scan# 3

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

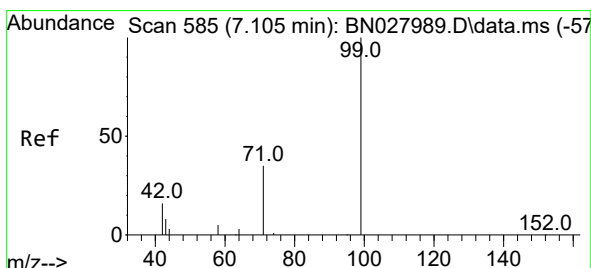
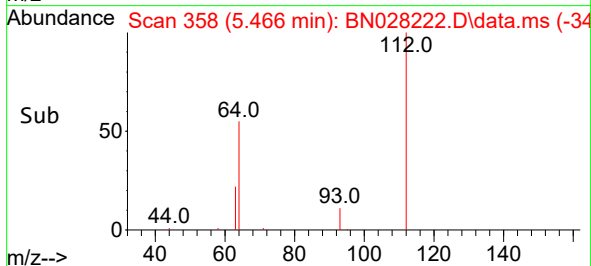
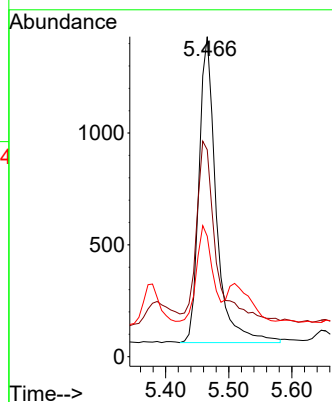
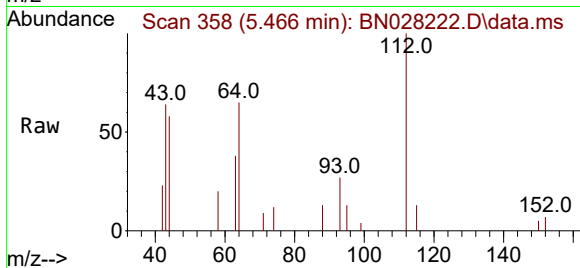
Tgt Ion:112 Resp: 2590

Ion Ratio Lower Upper

112 100

64 63.9 45.0 67.6

63 28.8 23.4 35.0



#5

Phenol-d6

Concen: 0.232 ng

RT: 7.084 min Scan# 582

Delta R.T. -0.007 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

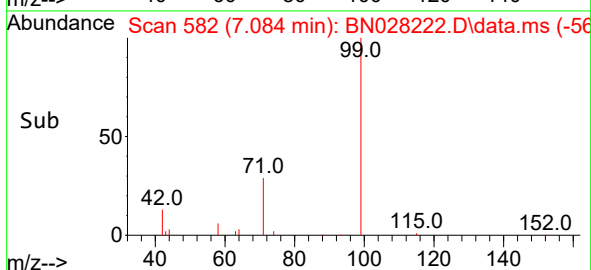
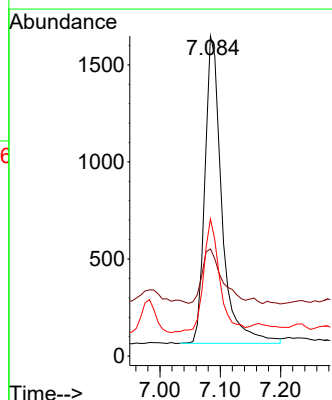
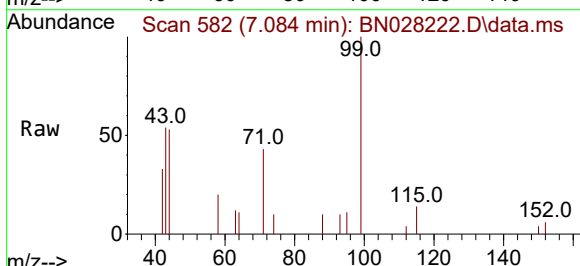
Tgt Ion: 99 Resp: 3096

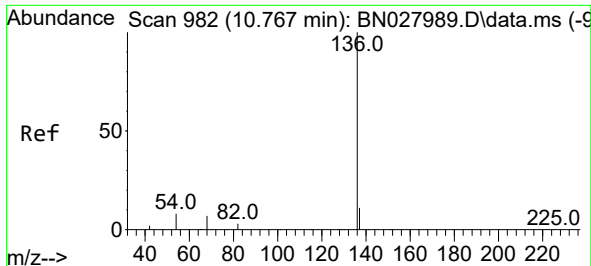
Ion Ratio Lower Upper

99 100

42 20.6 14.6 22.0

71 35.5 28.3 42.5

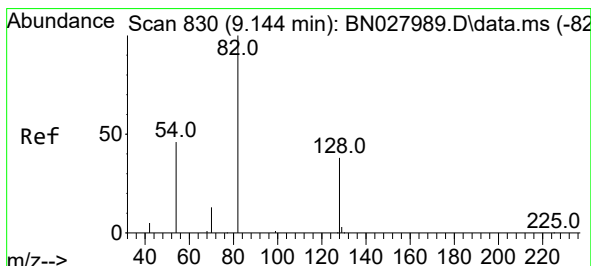
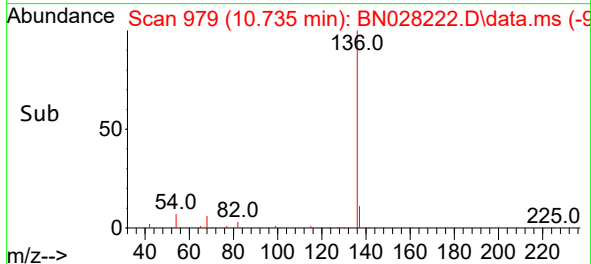
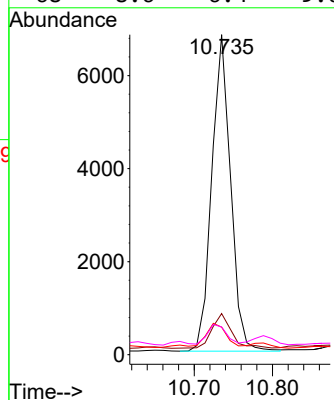
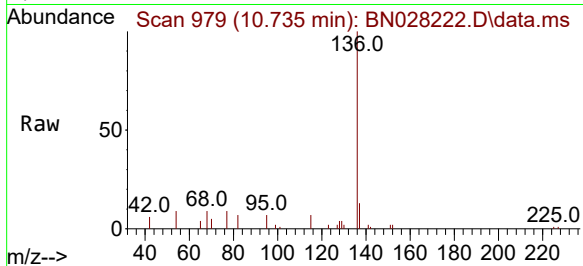




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

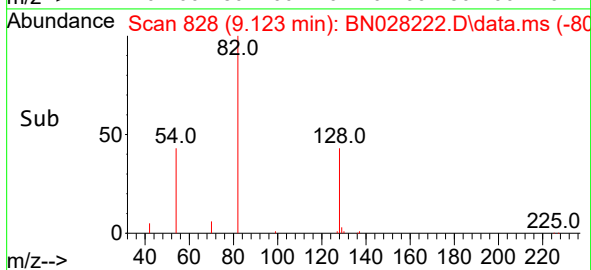
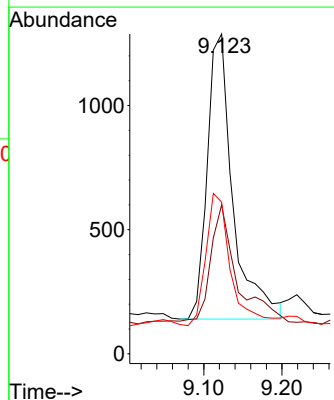
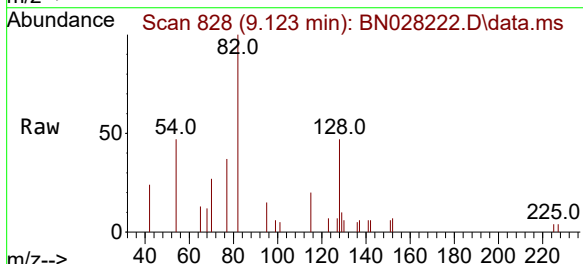
Instrument :
BNA_N
ClientSampleId :
E-1(0-5)

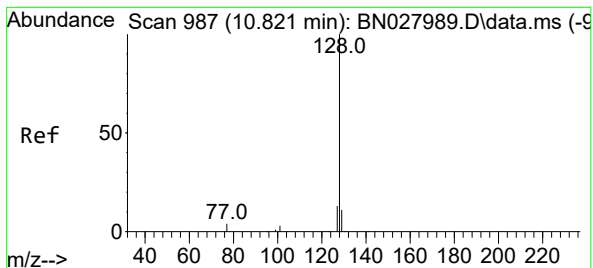
Tgt Ion:	136	Resp:	11347
Ion Ratio	Lower	Upper	
136	100		
137	12.9	9.4	14.0
54	8.6	7.0	10.6
68	8.6	6.4	9.6



#8
Nitrobenzene-d5
Concen: 0.272 ng
RT: 9.123 min Scan# 828
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:	82	Resp:	2628
Ion Ratio	Lower	Upper	
82	100		
128	46.6	32.7	49.1
54	47.4	38.7	58.1





#9

Naphthalene

Concen: 6.576 ng

RT: 10.788 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

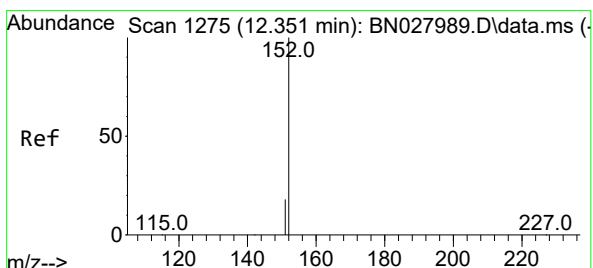
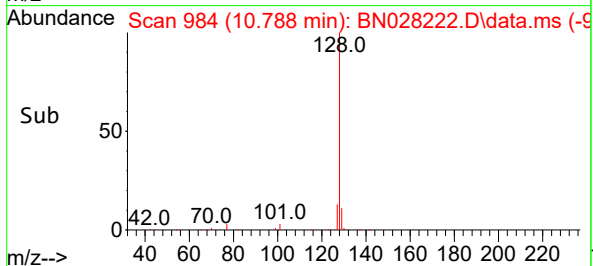
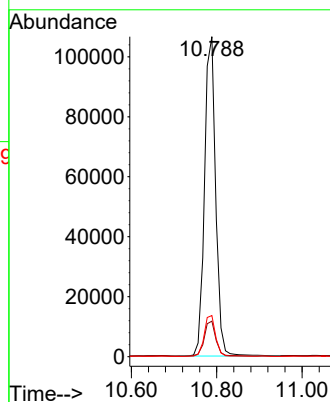
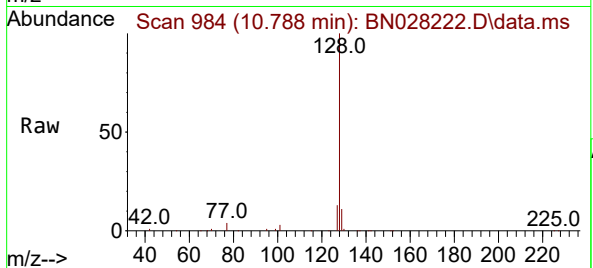
Tgt Ion:128 Resp: 192800

Ion Ratio Lower Upper

128 100

129 11.1 9.4 14.2

127 12.9 10.9 16.3



#11

2-Methylnaphthalene-d10

Concen: 0.239 ng

RT: 12.317 min Scan# 1266

Delta R.T. -0.008 min

Lab File: BN028222.D

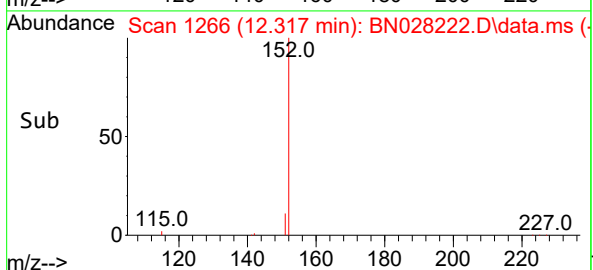
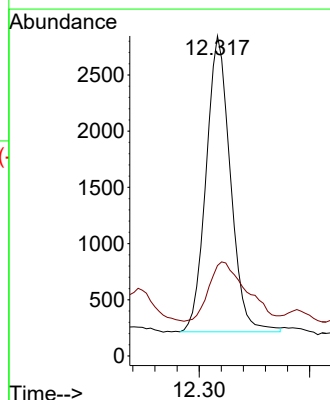
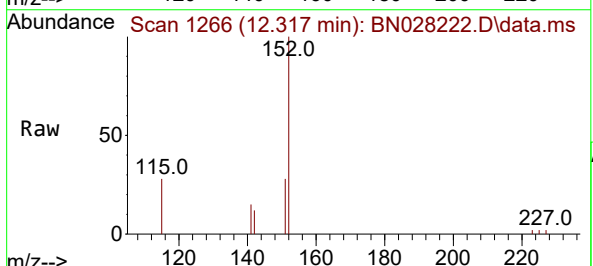
Acq: 11 Oct 2023 07:10

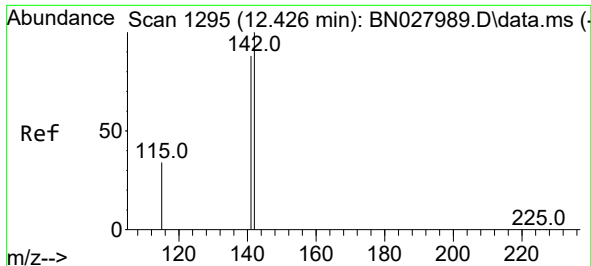
Tgt Ion:152 Resp: 4019

Ion Ratio Lower Upper

152 100

151 30.9 16.5 24.7#

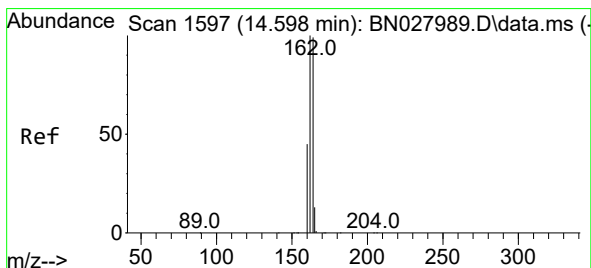
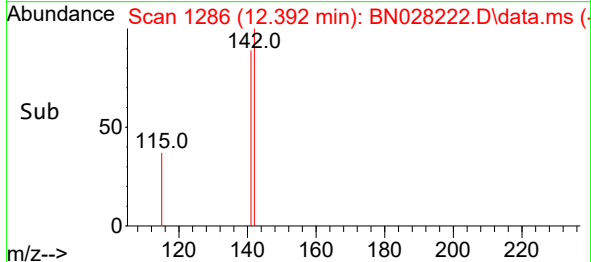
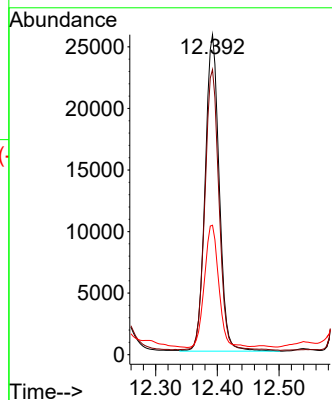
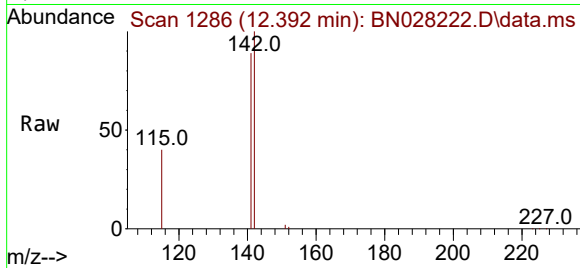




#12
2-Methylnaphthalene
Concen: 1.982 ng
RT: 12.392 min Scan# 11
Delta R.T. -0.008 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

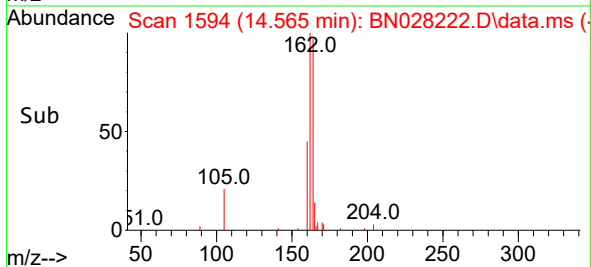
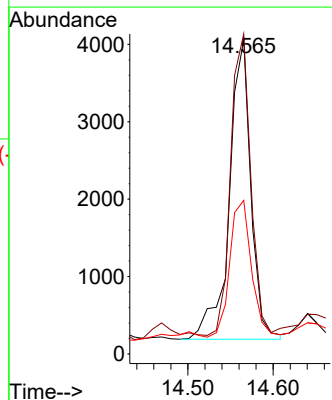
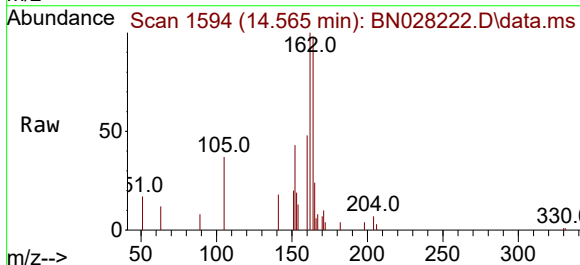
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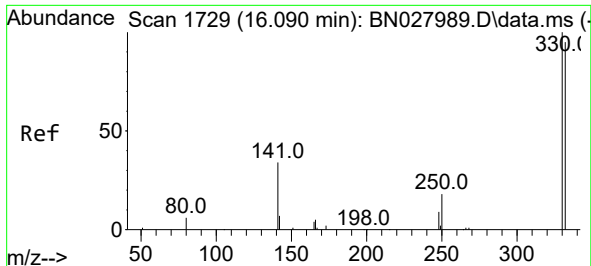
Tgt Ion:142 Resp: 40654
Ion Ratio Lower Upper
142 100
141 89.1 70.7 106.1
115 40.4 28.6 42.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.565 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:164 Resp: 6789
Ion Ratio Lower Upper
164 100
162 101.8 80.8 121.2
160 48.9 36.4 54.6

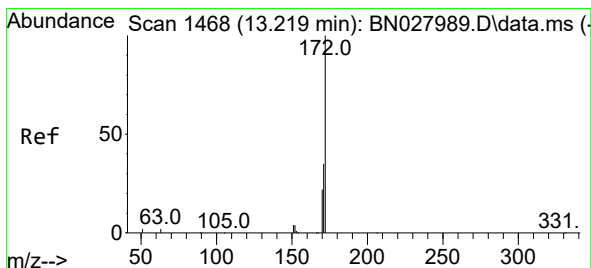
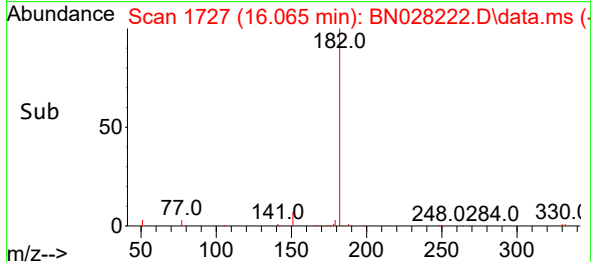
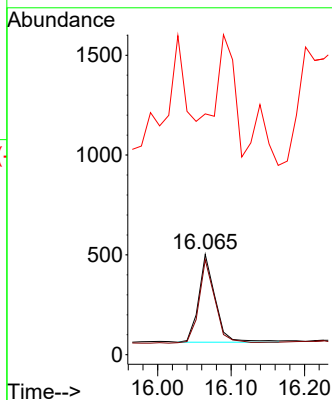
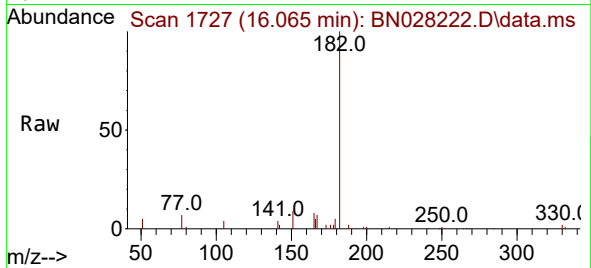




#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 16.065 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

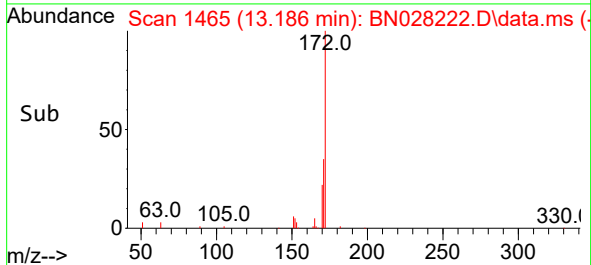
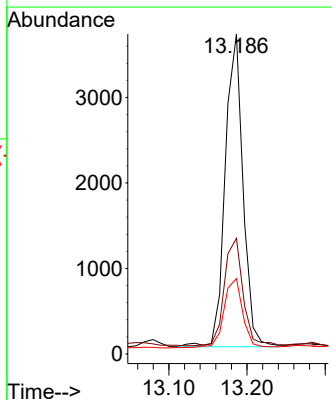
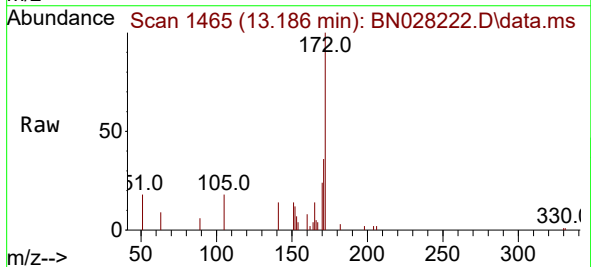
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ClientSampleId :
E-1(0-5)

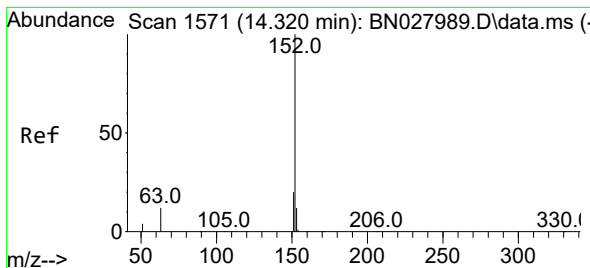
Tgt Ion:330 Resp: 687
Ion Ratio Lower Upper
330 100
332 92.6 78.1 117.1
141 0.0 33.4 50.2#



#15
2-Fluorobiphenyl
Concen: 0.236 ng
RT: 13.186 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:172 Resp: 5770
Ion Ratio Lower Upper
172 100
171 36.1 28.1 42.1
170 23.5 18.4 27.6





#16

Acenaphthylene

Concen: 21.008 ng

RT: 14.288 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

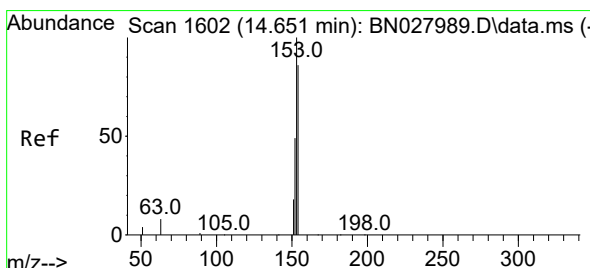
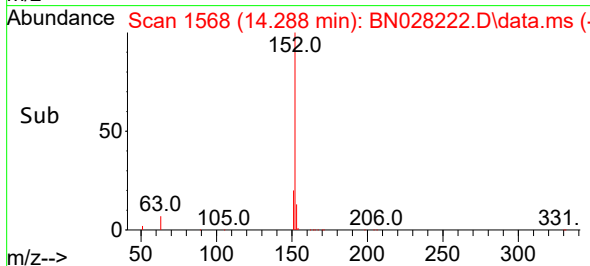
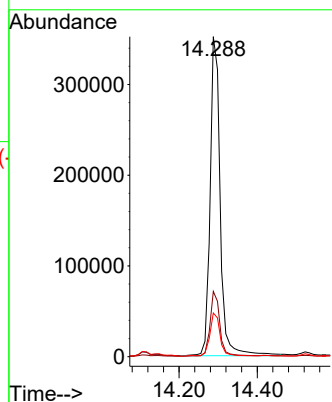
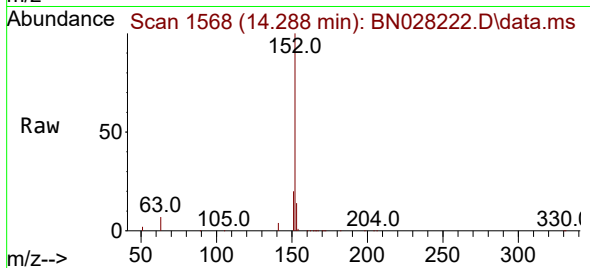
Tgt Ion:152 Resp: 631825

Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 13.7 10.2 15.4



#17

Acenaphthene

Concen: 5.878 ng

RT: 14.630 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

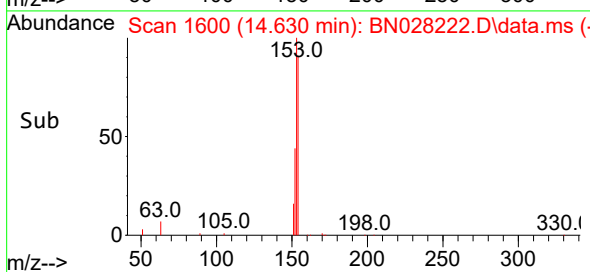
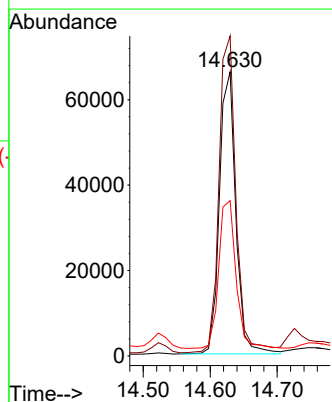
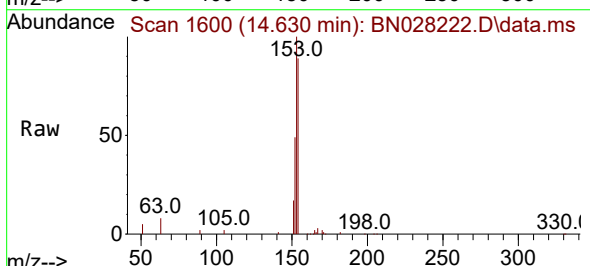
Tgt Ion:154 Resp: 112691

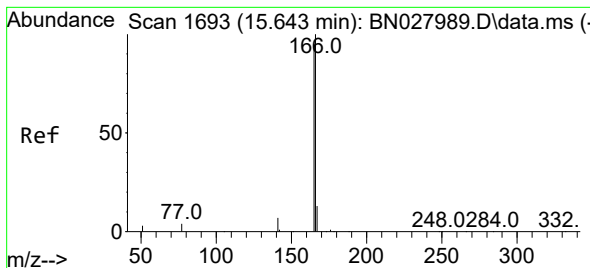
Ion Ratio Lower Upper

154 100

153 115.2 90.8 136.2

152 54.8 43.9 65.9





#18

Fluorene

Concen: 3.870 ng

RT: 15.606 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

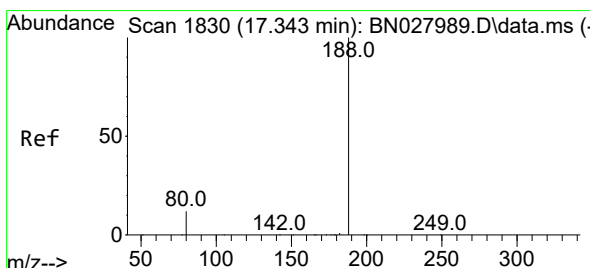
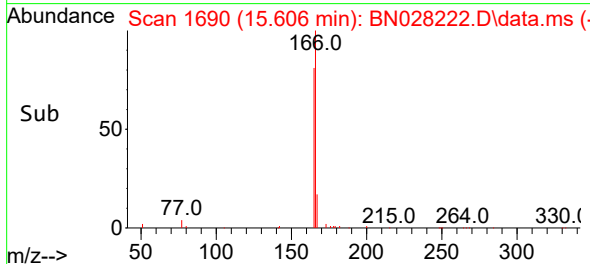
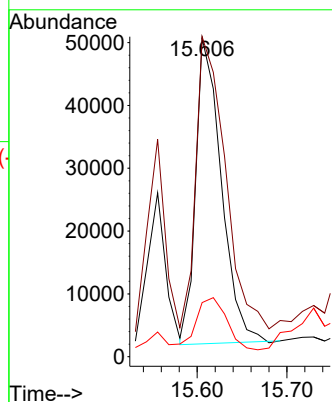
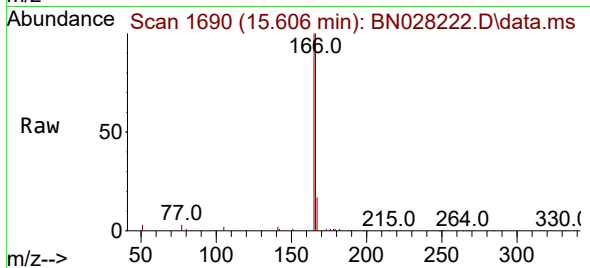
Tgt Ion:166 Resp: 96348

Ion Ratio Lower Upper

166 100

165 108.5 77.8 116.8

167 20.6 10.7 16.1#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.318 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

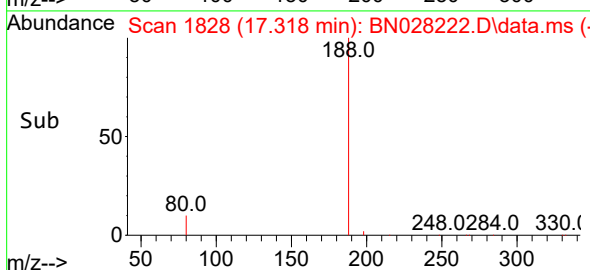
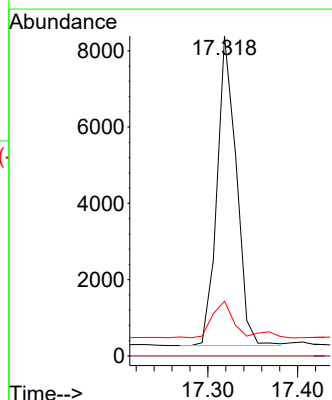
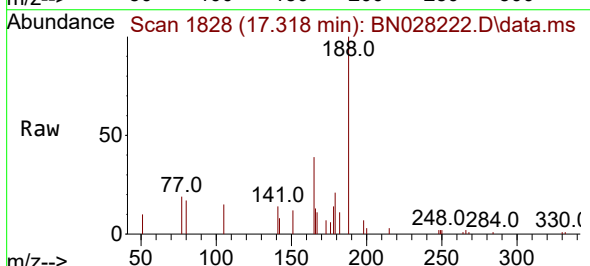
Tgt Ion:188 Resp: 12118

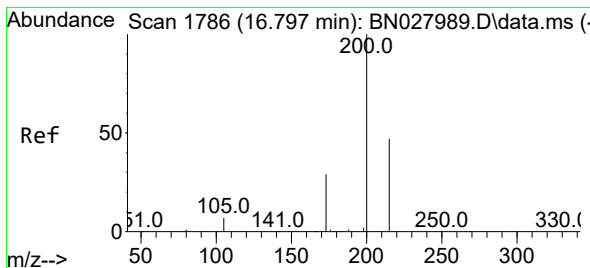
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.1 10.2 15.4#

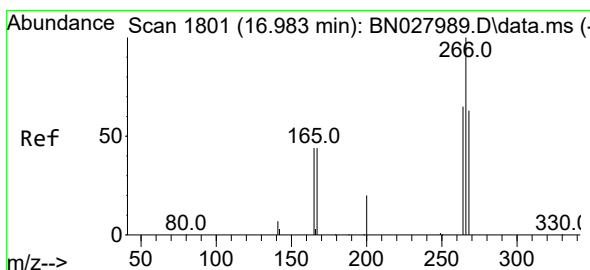
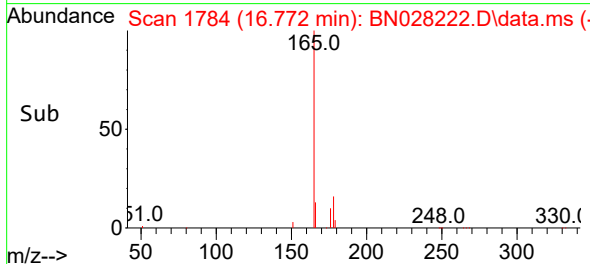
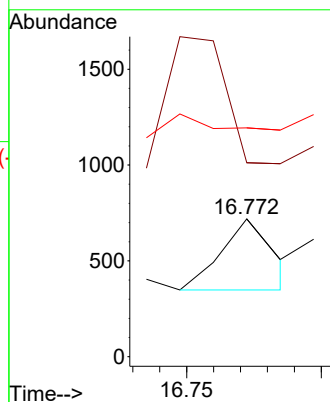
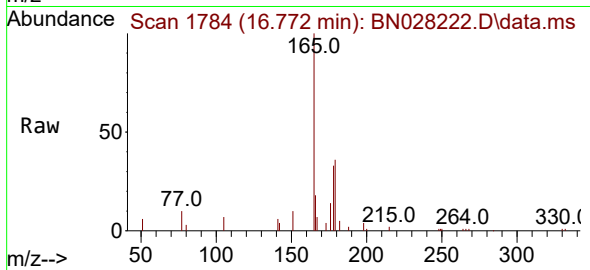




#20
4,6-Dinitro-2-methylphenol
Concen: 3.117 ng
RT: 16.772 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

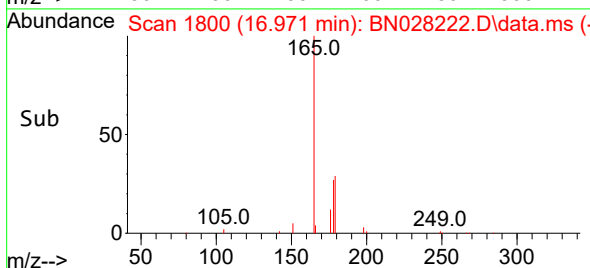
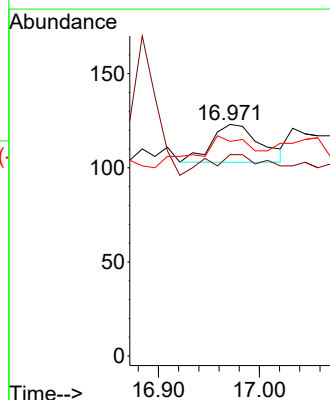
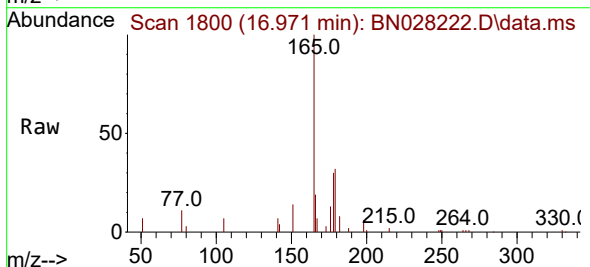
Instrument :
BNA_N
ClientSampleId :
E-1(0-5)

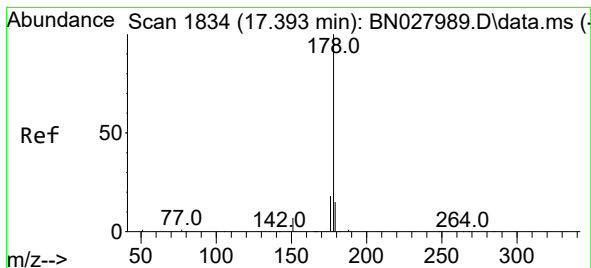
Tgt Ion:198 Resp: 502
Ion Ratio Lower Upper
198 100
51 140.8 180.7 271.1#
105 166.1 222.2 333.2#



#24
Pentachlorophenol
Concen: 0.021 ng
RT: 16.971 min Scan# 1800
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:266 Resp: 67
Ion Ratio Lower Upper
266 100
264 31.3 52.7 79.1#
268 98.5 56.2 84.2#





#25

Phenanthrene

Concen: 77.548 ng

RT: 17.368 min Scan# 1832

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

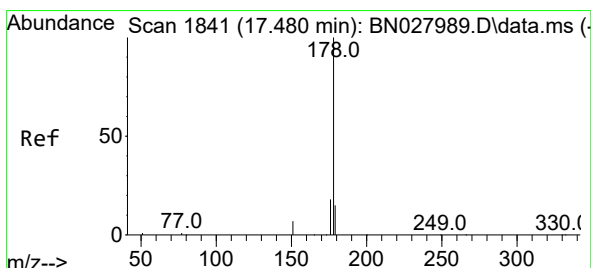
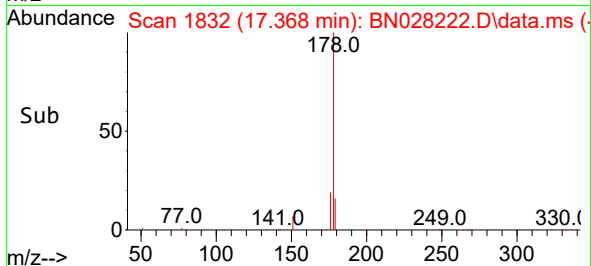
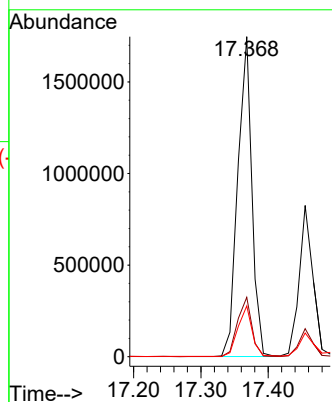
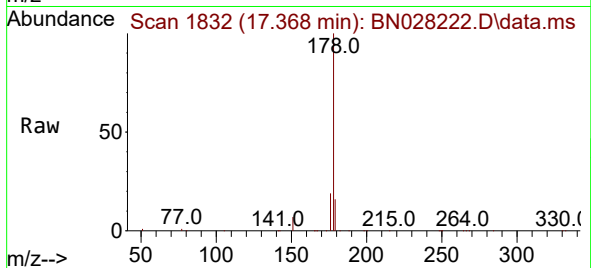
Tgt Ion:178 Resp: 2533472

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 15.9 12.4 18.6



#26

Anthracene

Concen: 38.321 ng

RT: 17.455 min Scan# 1839

Delta R.T. -0.000 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

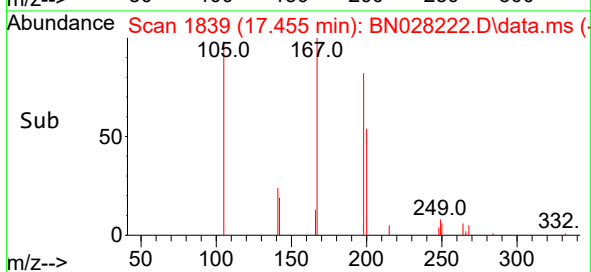
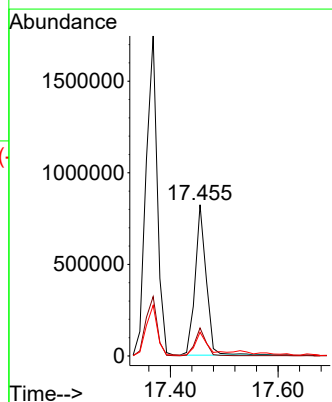
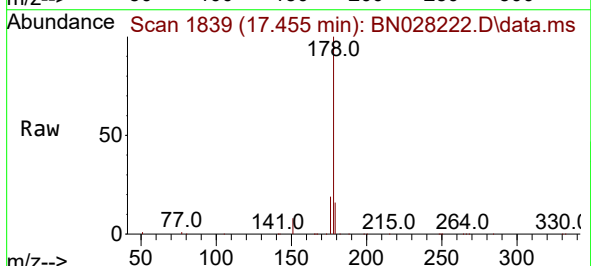
Tgt Ion:178 Resp: 1183340

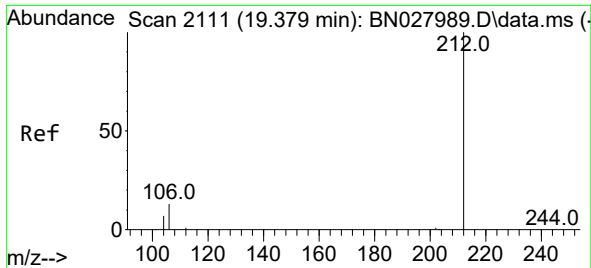
Ion Ratio Lower Upper

178 100

176 18.1 14.7 22.1

179 18.1 12.2 18.2

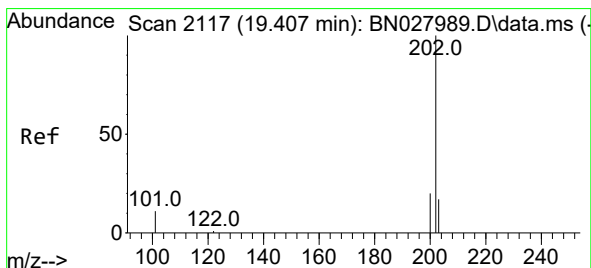
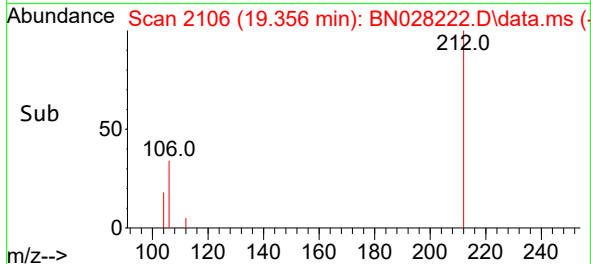
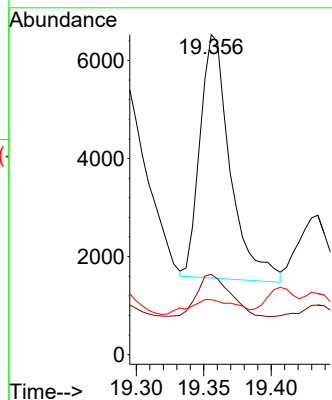
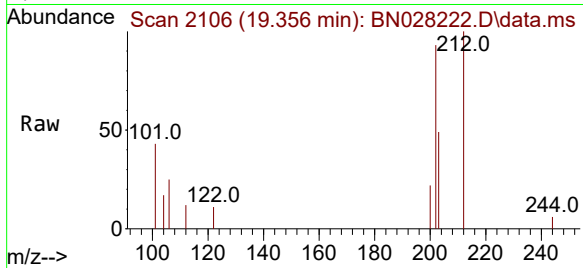




#27
Fluoranthene-d10
Concen: 0.254 ng
RT: 19.356 min Scan# 2110
Delta R.T. -0.000 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

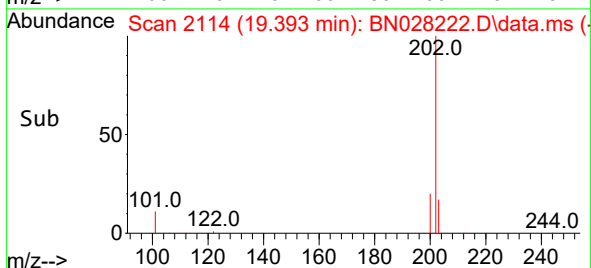
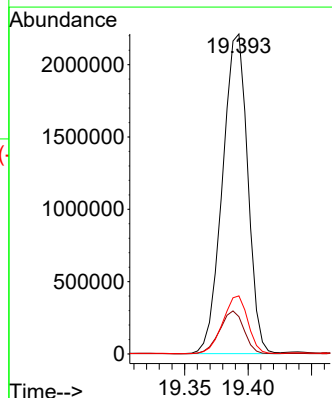
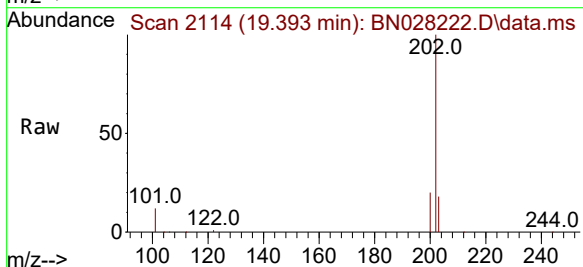
Instrument :
BNA_N
ClientSampleId :
E-1(0-5)

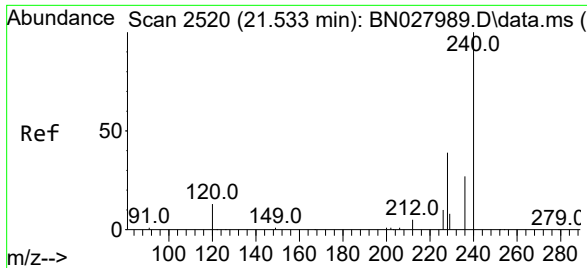
Tgt Ion:212 Resp: 7726
Ion Ratio Lower Upper
212 100
106 19.1 11.3 16.9#
104 9.0 6.4 9.6



#28
Fluoranthene
Concen: 81.001 ng
RT: 19.393 min Scan# 2114
Delta R.T. 0.009 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:202 Resp: 3054012
Ion Ratio Lower Upper
202 100
101 12.9 9.8 14.6
203 17.9 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: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

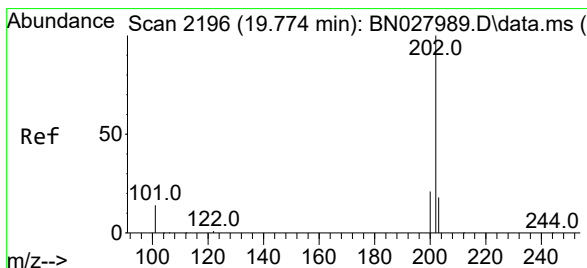
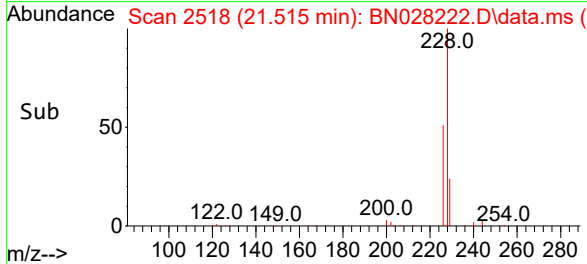
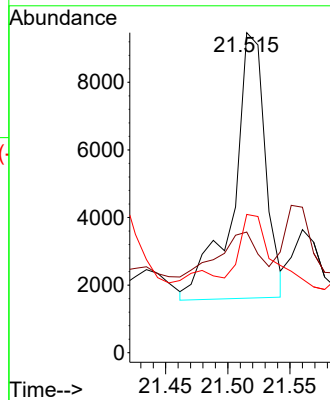
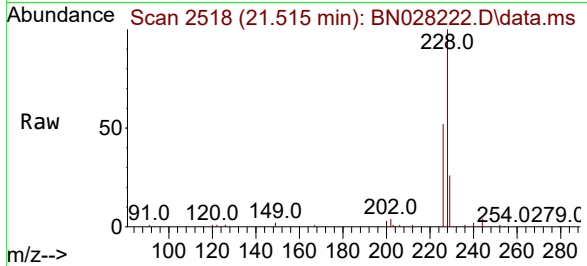
Tgt Ion:240 Resp: 14176

Ion Ratio Lower Upper

240 100

120 37.7 13.8 20.6#

236 43.2 22.6 33.8#



#30

Pyrene

Concen: 58.919 ng

RT: 19.760 min Scan# 2193

Delta R.T. 0.009 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

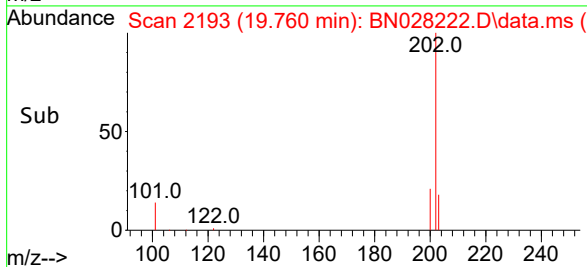
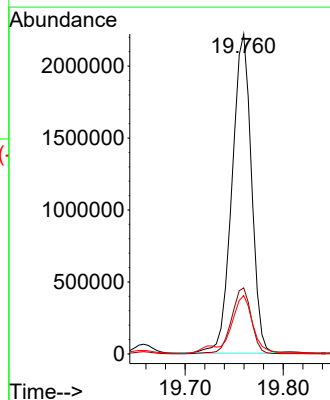
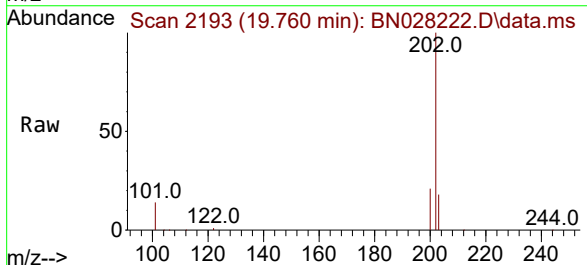
Tgt Ion:202 Resp: 3062726

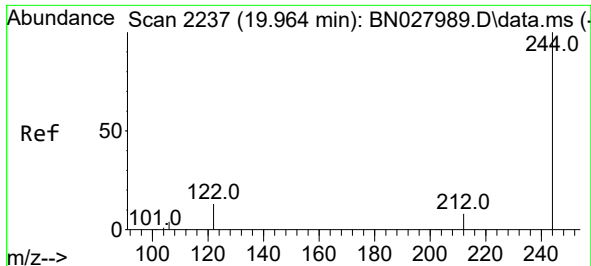
Ion Ratio Lower Upper

202 100

200 20.9 16.5 24.7

203 21.0 14.7 22.1

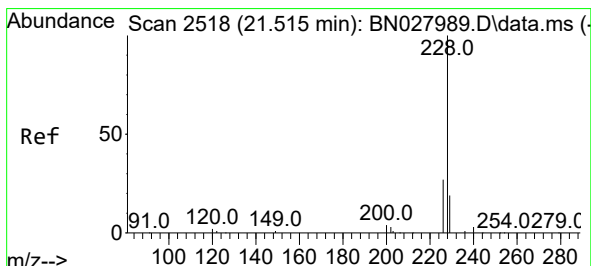
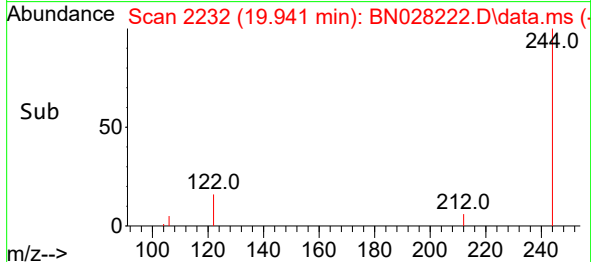
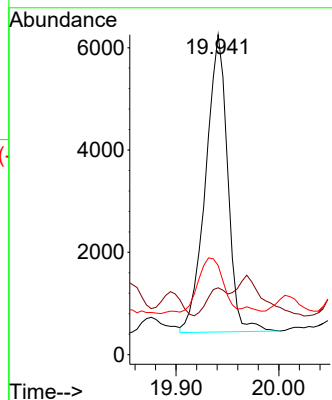
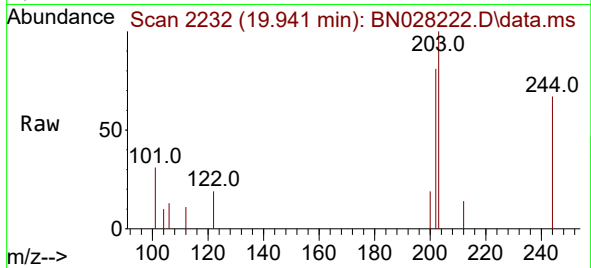




#31
 Terphenyl-d14
 Concen: 0.261 ng
 RT: 19.941 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN028222.D
 Acq: 11 Oct 2023 07:10

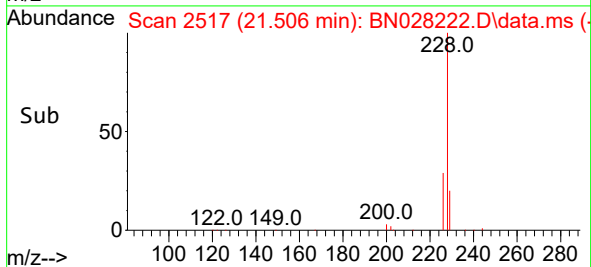
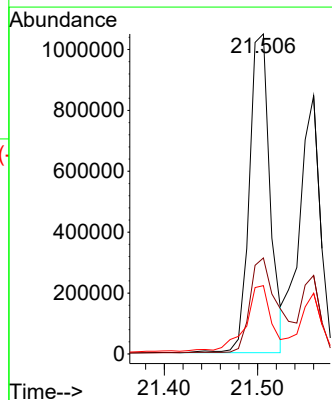
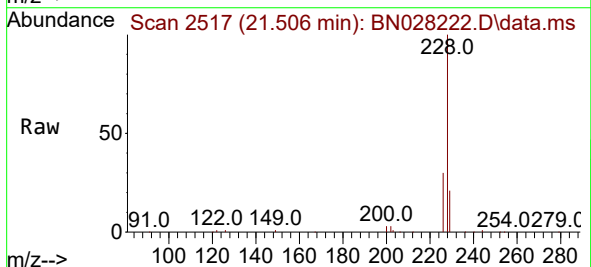
Instrument :
 BNA_N
 ClientSampleId :
 E-1(0-5)

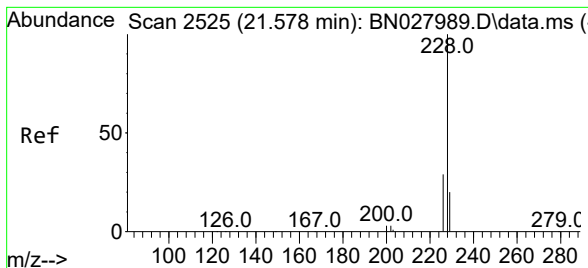
Tgt Ion:244 Resp: 8637
 Ion Ratio Lower Upper
 244 100
 212 20.9 6.6 9.8#
 122 27.9 11.4 17.0#



#32
 Benzo(a)anthracene
 Concen: 33.512 ng
 RT: 21.506 min Scan# 2517
 Delta R.T. 0.009 min
 Lab File: BN028222.D
 Acq: 11 Oct 2023 07:10

Tgt Ion:228 Resp: 1616572
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.0 33.0
 229 21.3 16.0 24.0





#33

Chrysene

Concen: 28.202 ng

RT: 21.560 min Scan# 2150

Delta R.T. 0.009 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

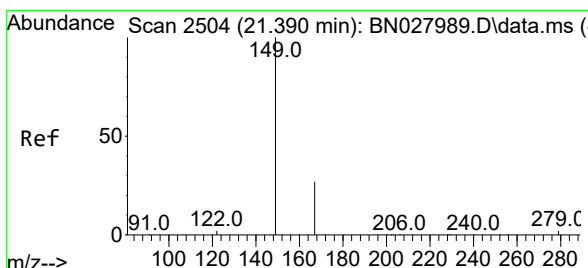
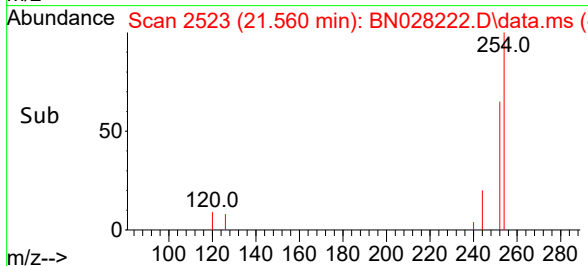
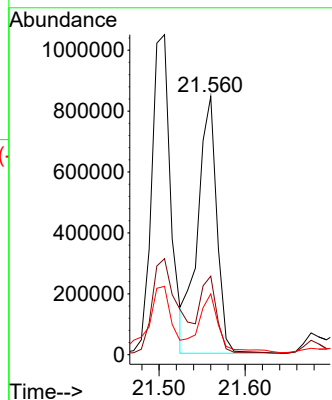
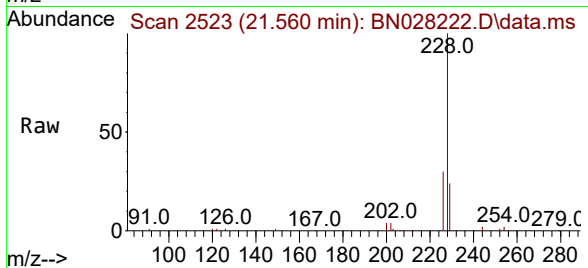
Tgt Ion:228 Resp: 1311044

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

229 23.6 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.231 ng

RT: 21.372 min Scan# 2502

Delta R.T. 0.009 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

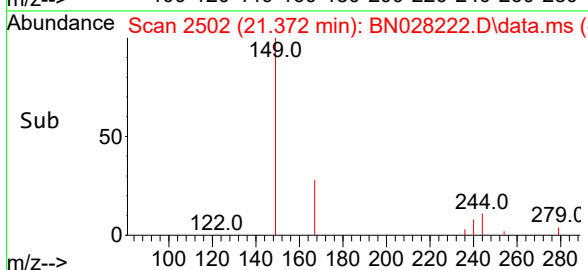
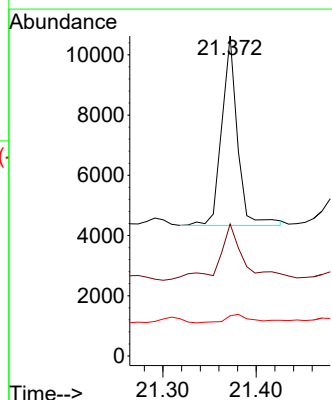
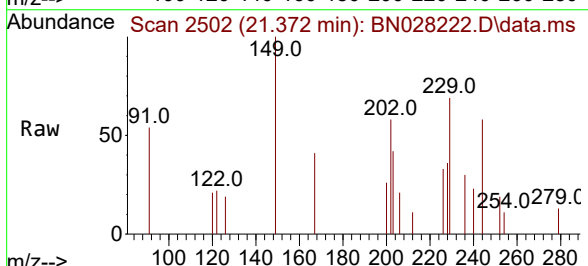
Tgt Ion:149 Resp: 7316

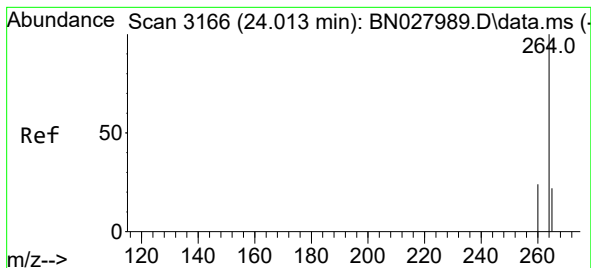
Ion Ratio Lower Upper

149 100

167 46.4 22.1 33.1#

279 6.7 3.4 5.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.990 min Scan# 31

Delta R.T. 0.014 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

Instrument :

BNA_N

ClientSampleId :

E-1(0-5)

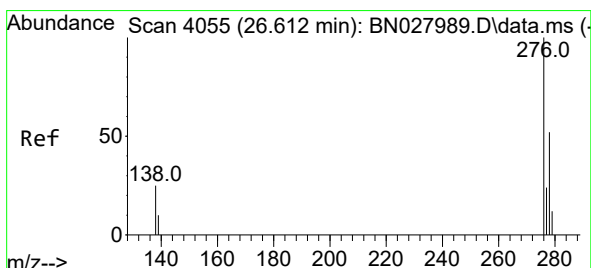
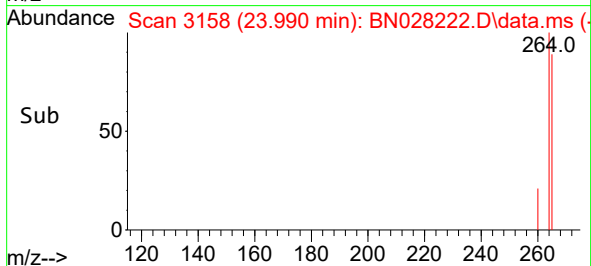
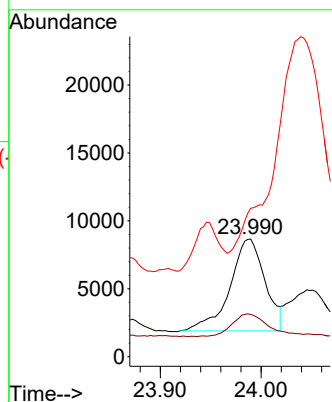
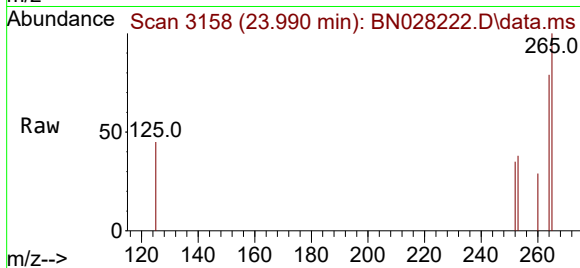
Tgt Ion:264 Resp: 16443

Ion Ratio Lower Upper

264 100

260 36.0 20.2 30.4#

265 126.3 54.8 82.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 12.034 ng

RT: 26.586 min Scan# 4046

Delta R.T. 0.029 min

Lab File: BN028222.D

Acq: 11 Oct 2023 07:10

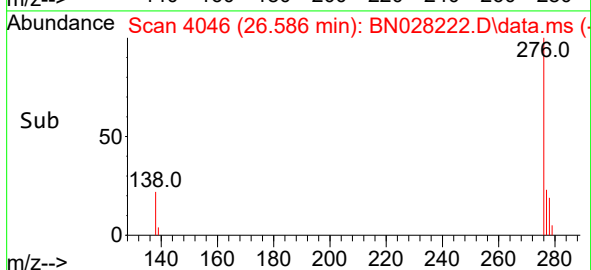
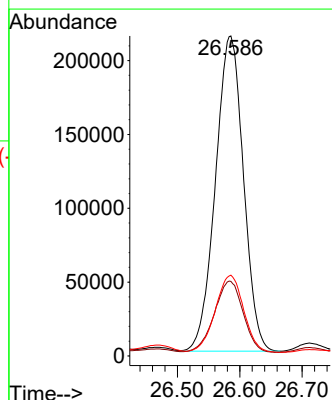
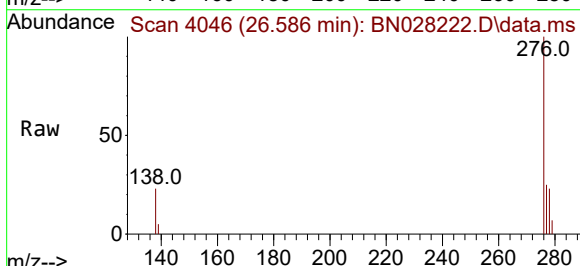
Tgt Ion:276 Resp: 665588

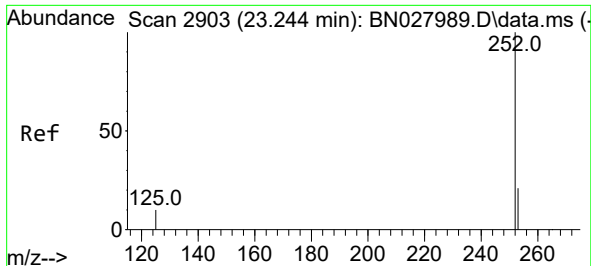
Ion Ratio Lower Upper

276 100

138 23.3 20.9 31.3

277 24.9 19.8 29.6

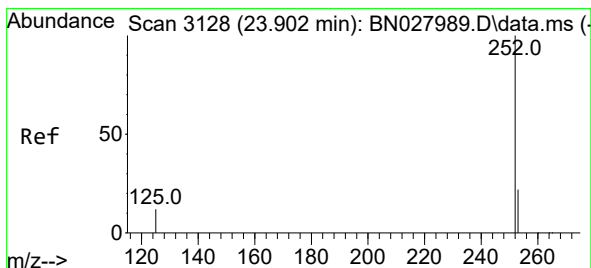
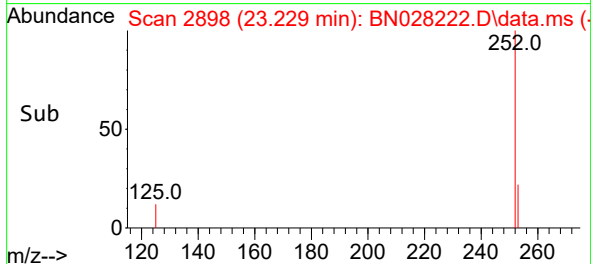
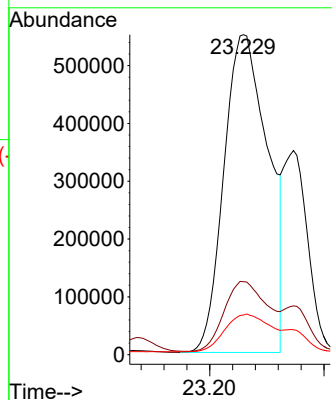
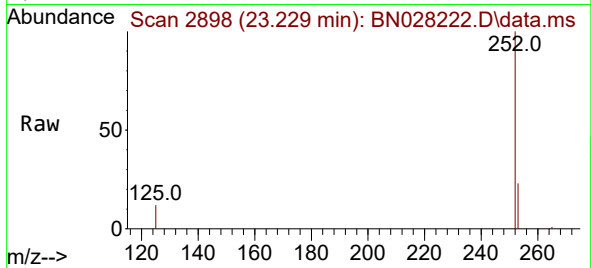




#37
Benzo(b)fluoranthene
Concen: 27.689 ng
RT: 23.229 min Scan# 21
Delta R.T. 0.017 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

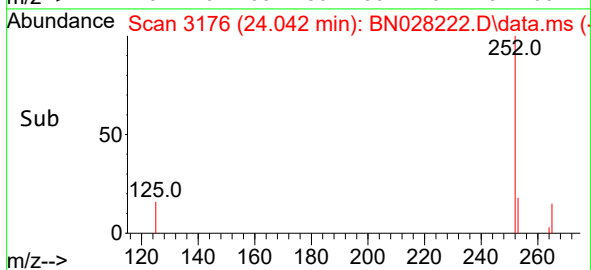
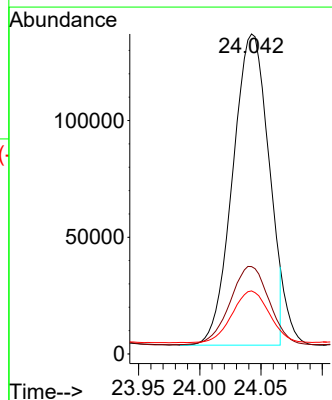
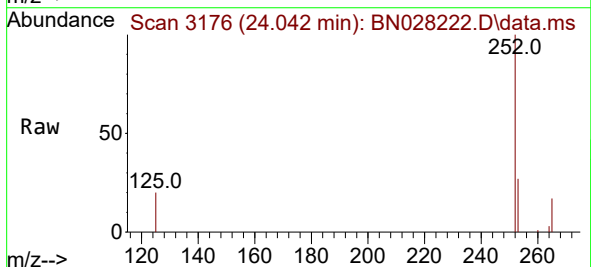
Instrument :
BNA_N
ClientSampleId :
E-1(0-5)

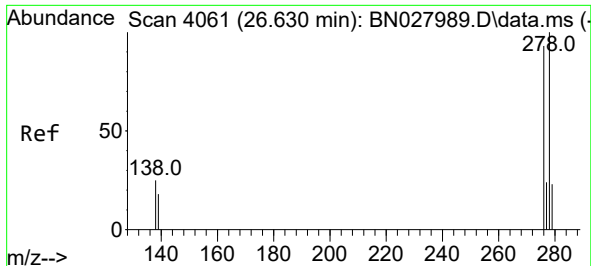
Tgt Ion:252 Resp: 1470446
Ion Ratio Lower Upper
252 100
253 22.8 22.9 34.3#
125 12.4 13.8 20.8#



#39
Benzo(a)pyrene
Concen: 5.403 ng
RT: 24.042 min Scan# 3176
Delta R.T. 0.178 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:252 Resp: 271332
Ion Ratio Lower Upper
252 100
253 27.3 25.0 37.4
125 19.7 16.6 24.8

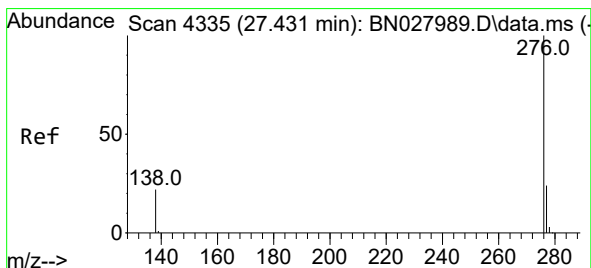
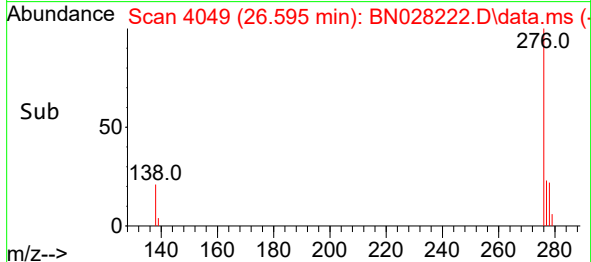
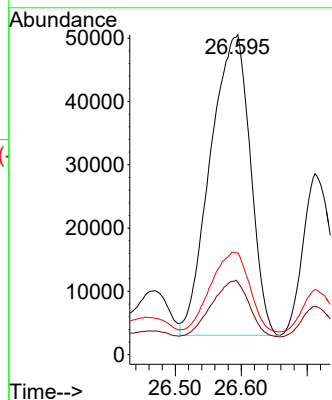
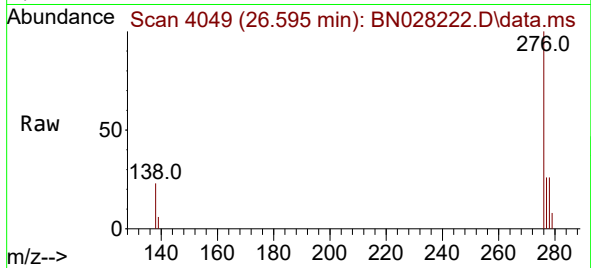




#40
Dibenzo(a,h)anthracene
Concen: 4.408 ng
RT: 26.595 min Scan# 4061
Delta R.T. 0.017 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Instrument :
BNA_N
ClientSampleId :
E-1(0-5)

Tgt Ion:278 Resp: 199435
Ion Ratio Lower Upper
278 100
139 22.6 17.7 26.5
279 31.8 25.2 37.8



#41
Benzo(g,h,i)perylene
Concen: 13.590 ng
RT: 27.399 min Scan# 4324
Delta R.T. 0.032 min
Lab File: BN028222.D
Acq: 11 Oct 2023 07:10

Tgt Ion:276 Resp: 631142
Ion Ratio Lower Upper
276 100
277 25.1 22.1 33.1
138 23.9 20.8 31.2

