

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050623\
 Data File : BN025313.D
 Acq On : 06 May 2023 13:33
 Operator : CG/JU
 Sample : 02588-14
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

Quant Time: May 08 03:59:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 02:37:05 2023
 Response via : Initial Calibration

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

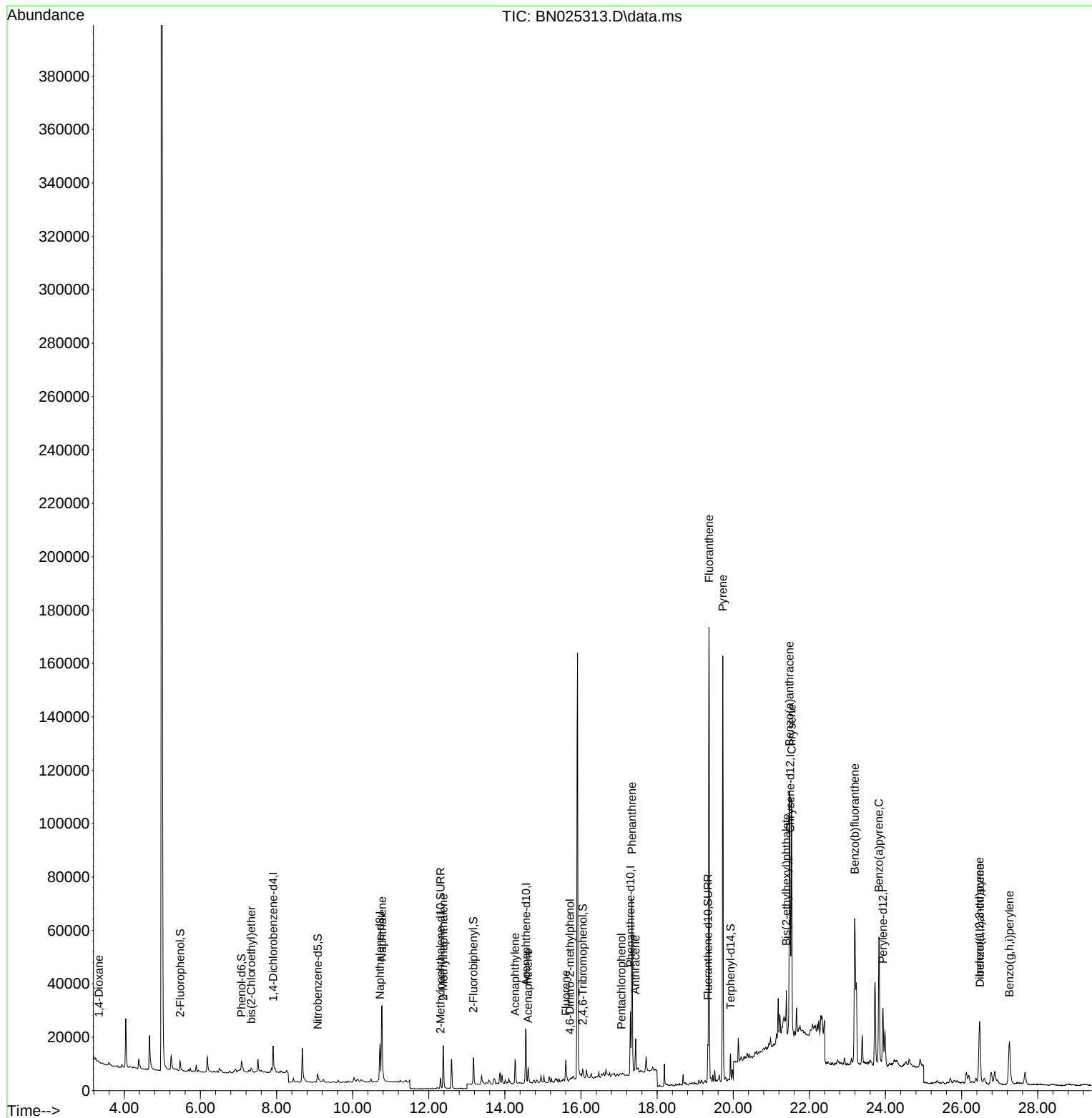
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.911	152	5786	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	18871	0.400	ng	-0.01
13) Acenaphthene-d10	14.555	164	12935	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	30394	0.400	ng	#-0.01
29) Chrysene-d12	21.495	240	29484	0.400	ng	#-0.01
35) Perylene-d12	23.932	264	28499	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.470	112	3552	0.252	ng	0.00
5) Phenol-d6	7.081	99	4606	0.261	ng	0.00
8) Nitrobenzene-d5	9.084	82	3214	0.207	ng	-0.01
11) 2-Methylnaphthalene-d10	12.309	152	5897	0.229	ng	0.00
14) 2,4,6-Tribromophenol	16.045	330	1422	0.215	ng	-0.02
15) 2-Fluorobiphenyl	13.176	172	9175	0.207	ng	-0.01
27) Fluoranthene-d10	19.334	212	14413	0.192	ng	0.00
31) Terphenyl-d14	19.928	244	11001	0.185	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.332	88	194	0.032	ng	# 13
6) bis(2-Chloroethyl)ether	7.333	93	1088	0.070	ng	96
9) Naphthalene	10.771	128	36526	0.754	ng	98
12) 2-Methylnaphthalene	12.381	142	12642	0.369	ng	99
16) Acenaphthylene	14.266	152	10446	0.180	ng	97
17) Acenaphthene	14.609	154	2946	0.082	ng	94
18) Fluorene	15.603	166	5543	0.112	ng	# 95
20) 4,6-Dinitro-2-methylph...	15.710	198	41	0.286	ng	# 1
24) Pentachlorophenol	17.063	266	6	0.267	ng	# 23
25) Phenanthrene	17.336	178	69667	0.828	ng	99
26) Anthracene	17.435	178	15111	0.192	ng	98
28) Fluoranthene	19.363	202	156180	1.486	ng	100
30) Pyrene	19.726	202	141803	1.407	ng	# 96
32) Benzo(a)anthracene	21.477	228	81524	0.818	ng	98
33) Chrysene	21.531	228	79389	0.800	ng	97
34) Bis(2-ethylhexyl)phtha...	21.396	149	18627	0.238	ng	# 83
36) Indeno(1,2,3-cd)pyrene	26.472	276	36625	0.321	ng	95
37) Benzo(b)fluoranthene	23.195	252	99480	1.101	ng	96
39) Benzo(a)pyrene	23.829	252	66903	0.723	ng	97
40) Dibenzo(a,h)anthracene	26.484	278	9289	0.103	ng	# 67
41) Benzo(g,h,i)perylene	27.256	276	35682	0.360	ng	98

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

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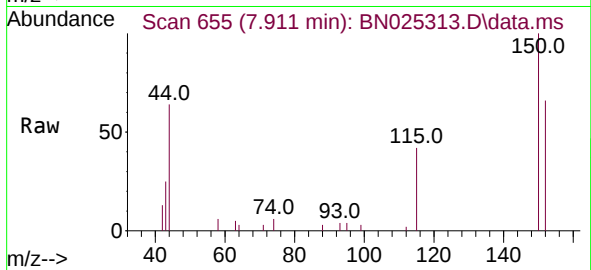
Quant Time: May 08 03:59:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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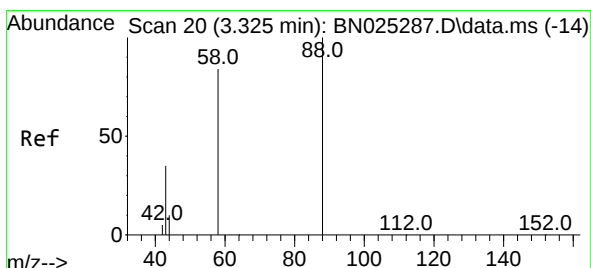
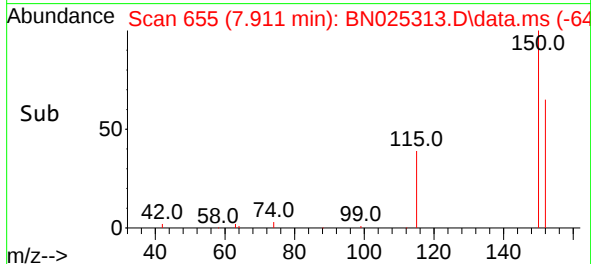
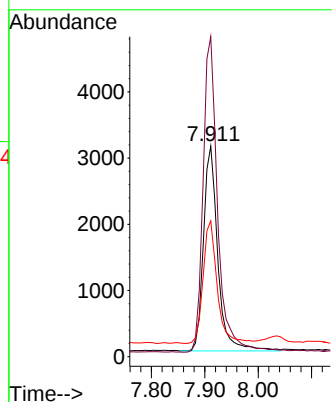


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.911 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

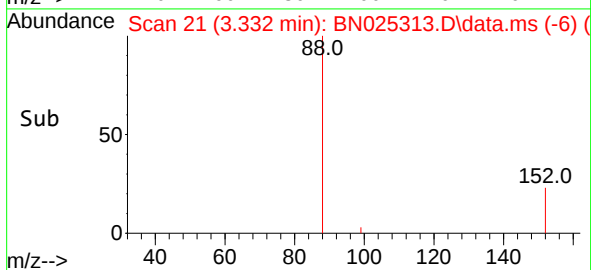
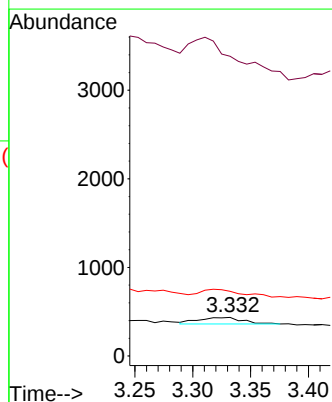
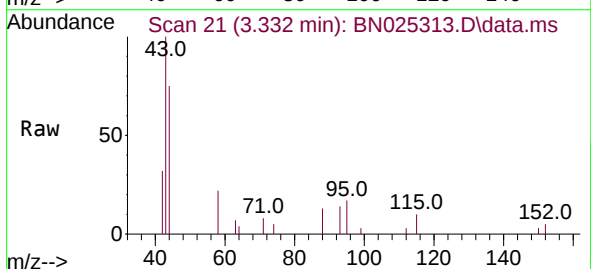


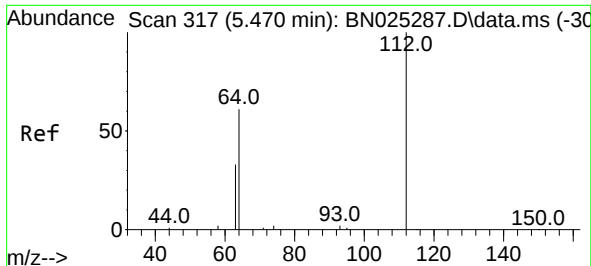
Tgt Ion:152 Resp: 5786
 Ion Ratio Lower Upper
 152 100
 150 152.0 123.8 185.8
 115 64.5 52.9 79.3



#2
 1,4-Dioxane
 Concen: 0.032 ng
 RT: 3.332 min Scan# 21
 Delta R.T. 0.007 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Tgt Ion: 88 Resp: 194
 Ion Ratio Lower Upper
 88 100
 43 0.0 37.2 55.8#
 58 0.0 71.5 107.3#

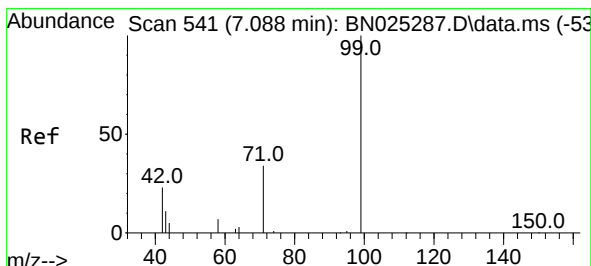
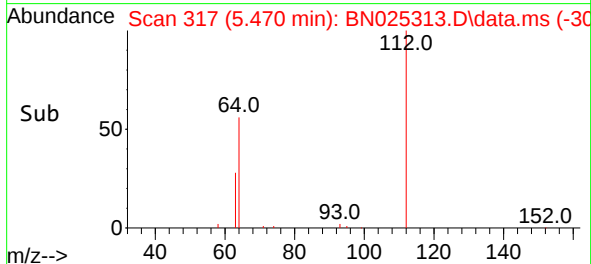
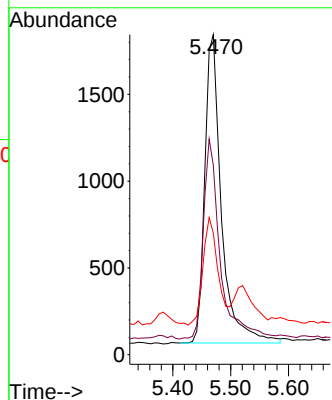
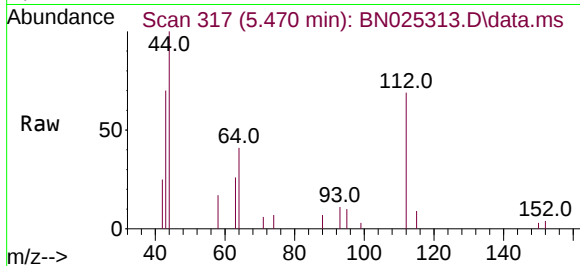




#4
2-Fluorophenol
Concen: 0.252 ng
RT: 5.470 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

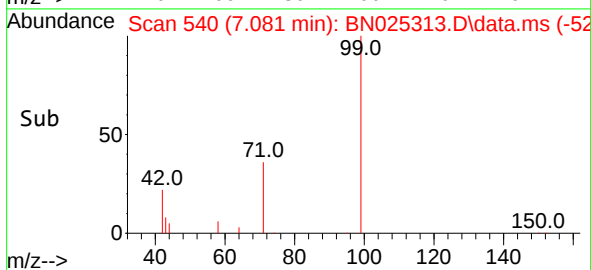
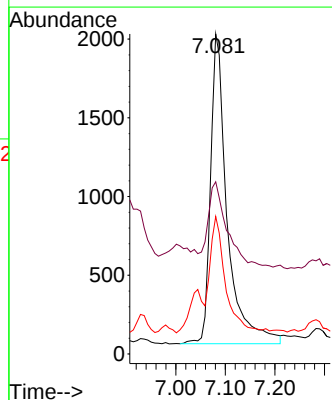
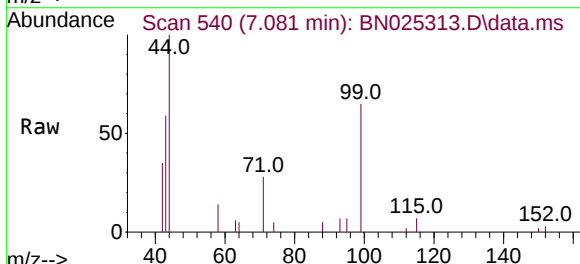
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ClientSampleId :
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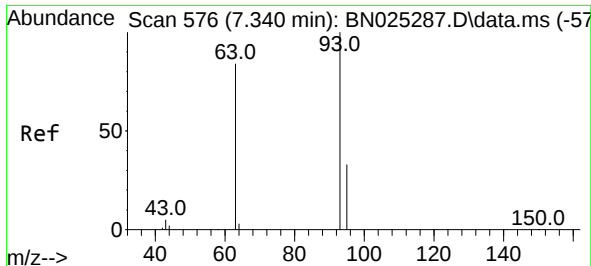
Tgt Ion: 112 Resp: 3552
Ion Ratio Lower Upper
112 100
64 66.0 51.5 77.3
63 32.0 27.8 41.6



#5
Phenol-d6
Concen: 0.261 ng
RT: 7.081 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion: 99 Resp: 4606
Ion Ratio Lower Upper
99 100
42 31.7 22.0 33.0
71 33.0 28.7 43.1

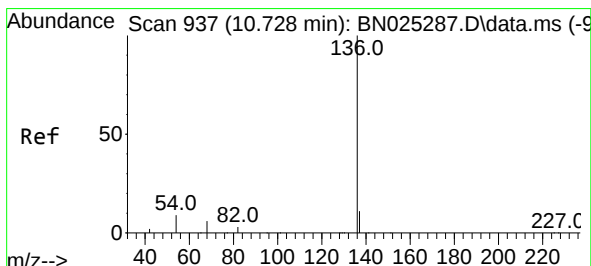
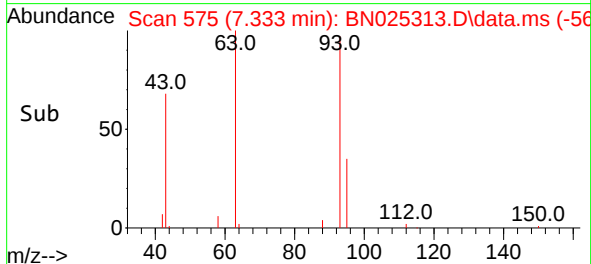
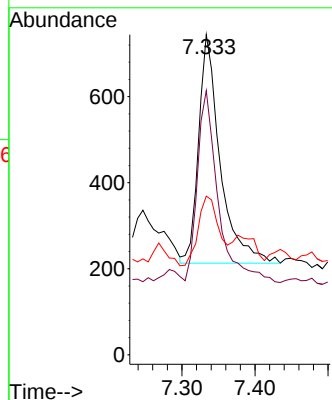
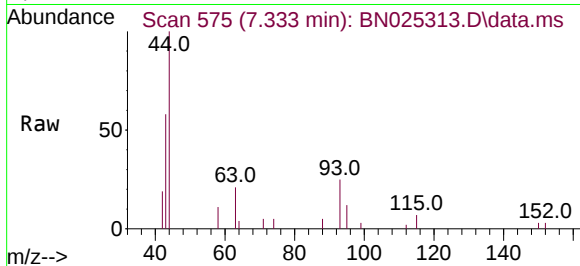




#6
bis(2-Chloroethyl)ether
Concen: 0.070 ng
RT: 7.333 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

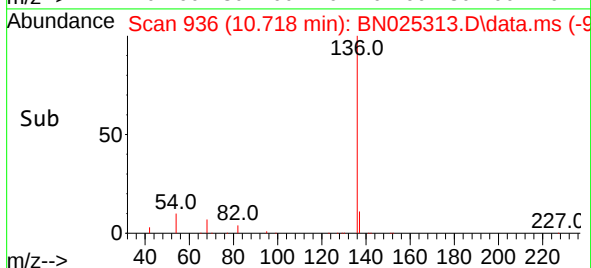
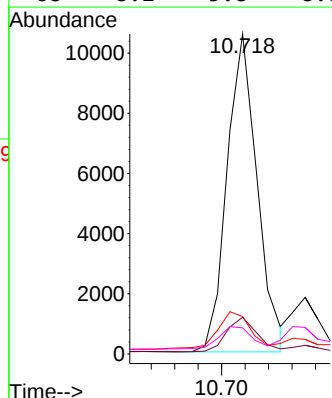
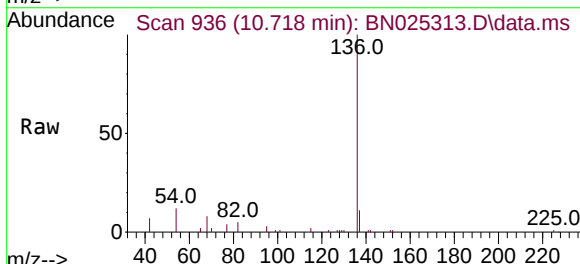
Instrument :
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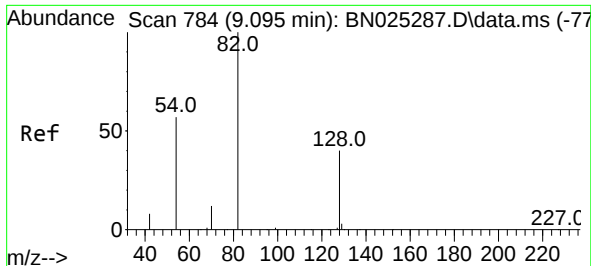
Tgt Ion: 93 Resp: 1088
Ion Ratio Lower Upper
93 100
63 81.9 67.8 101.6
95 29.0 26.7 40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion: 136 Resp: 18871
Ion Ratio Lower Upper
136 100
137 11.4 9.4 14.2
54 11.7 8.5 12.7
68 8.2 5.8 8.8

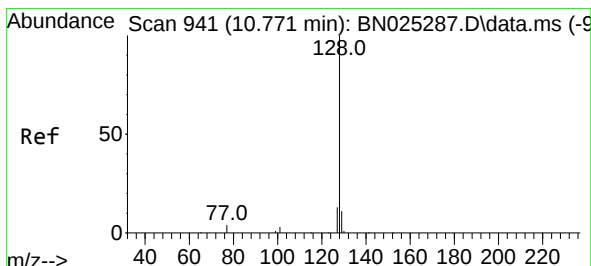
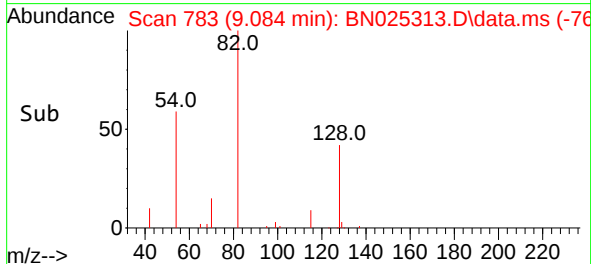
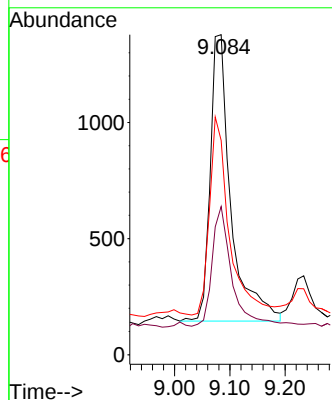
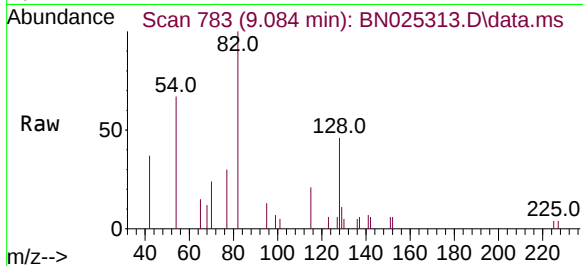




#8
 Nitrobenzene-d5
 Concen: 0.207 ng
 RT: 9.084 min Scan# 784
 Delta R.T. -0.011 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

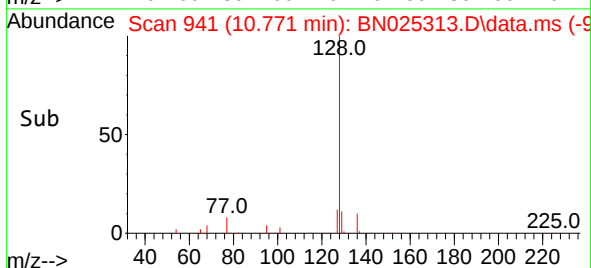
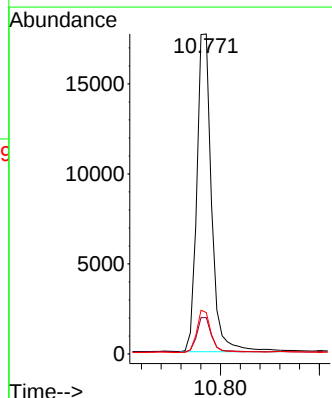
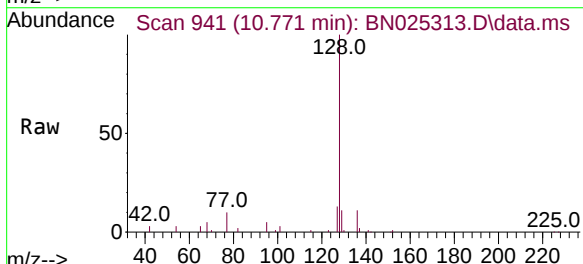
Instrument :
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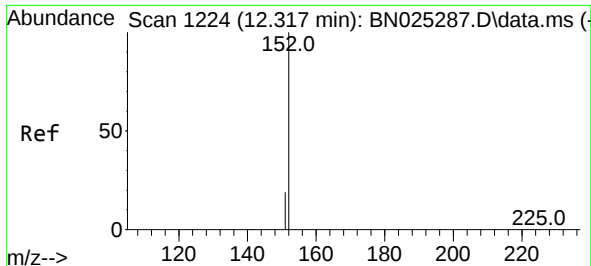
Tgt Ion: 82 Resp: 3214
 Ion Ratio Lower Upper
 82 100
 128 46.3 35.3 52.9
 54 67.0 48.7 73.1



#9
 Naphthalene
 Concen: 0.754 ng
 RT: 10.771 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Tgt Ion: 128 Resp: 36526
 Ion Ratio Lower Upper
 128 100
 129 11.3 9.4 14.2
 127 13.0 11.0 16.6





#11

2-Methylnaphthalene-d10

Concen: 0.229 ng

RT: 12.309 min Scan# 11

Delta R.T. -0.008 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

Instrument :

BNA_N

ClientSampleId :

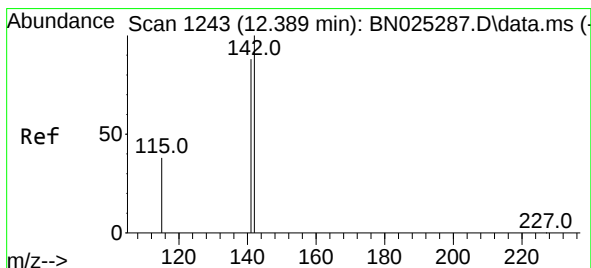
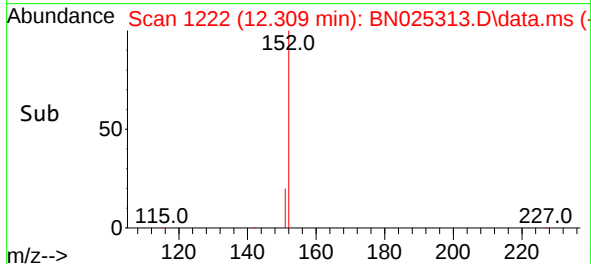
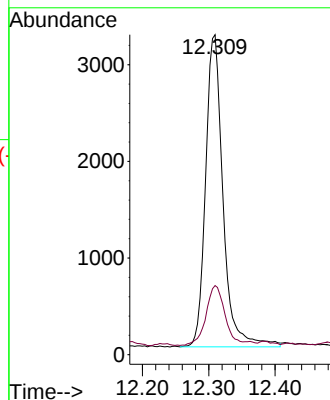
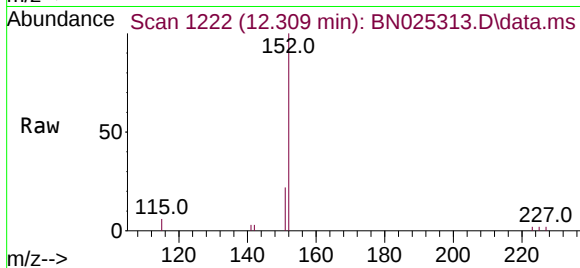
PILE-A-UNK-05022023

Tgt Ion:152 Resp: 5897

Ion Ratio Lower Upper

152 100

151 20.7 16.4 24.6



#12

2-Methylnaphthalene

Concen: 0.369 ng

RT: 12.381 min Scan# 1241

Delta R.T. -0.008 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

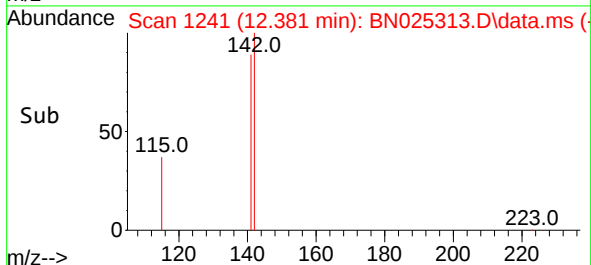
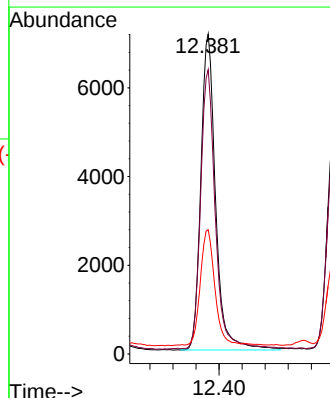
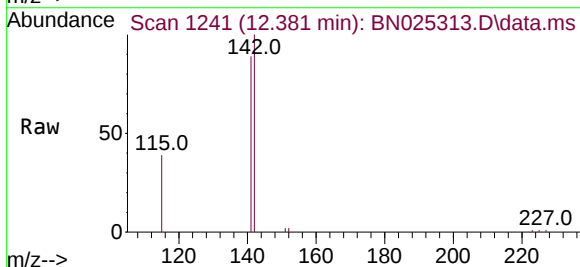
Tgt Ion:142 Resp: 12642

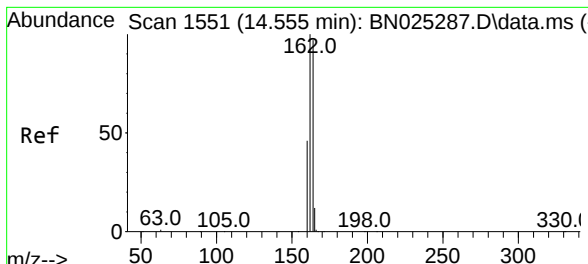
Ion Ratio Lower Upper

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141 88.8 70.5 105.7

115 38.9 31.6 47.4

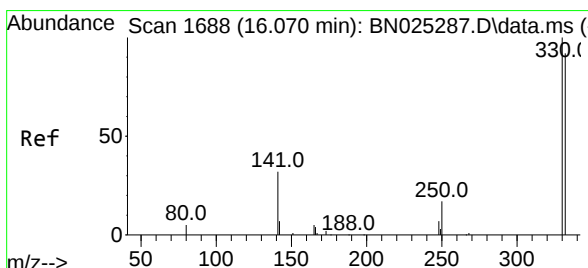
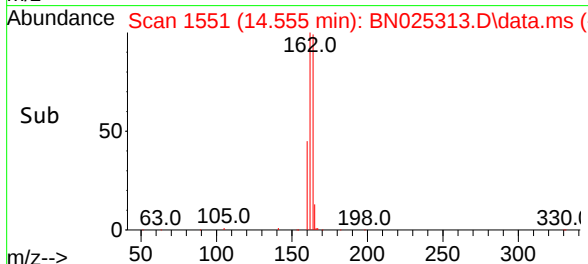
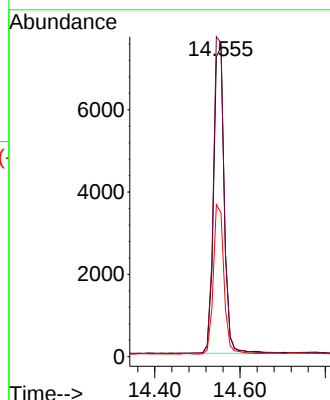
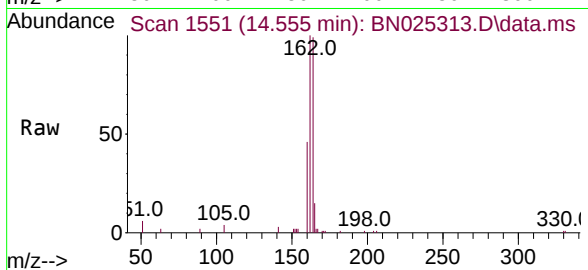




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.555 min Scan# 1551
Delta R.T. 0.000 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

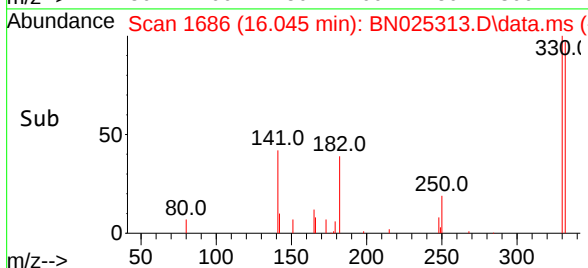
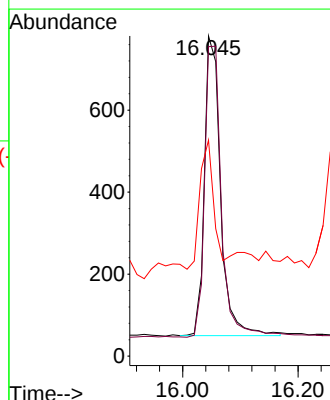
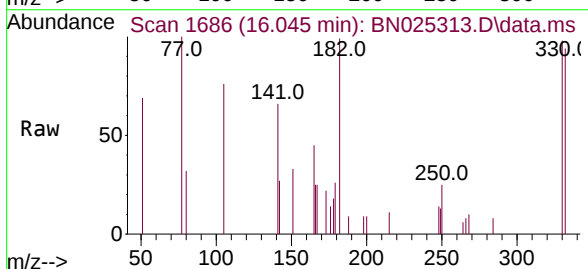
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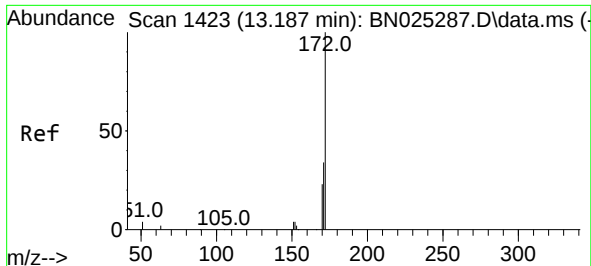
Tgt Ion:164 Resp: 12935
Ion Ratio Lower Upper
164 100
162 101.1 82.1 123.1
160 46.4 38.3 57.5



#14
2,4,6-Tribromophenol
Concen: 0.215 ng
RT: 16.045 min Scan# 1686
Delta R.T. -0.025 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion:330 Resp: 1422
Ion Ratio Lower Upper
330 100
332 101.7 77.4 116.0
141 38.3 28.9 43.3

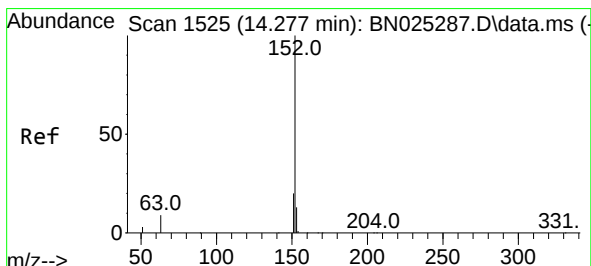
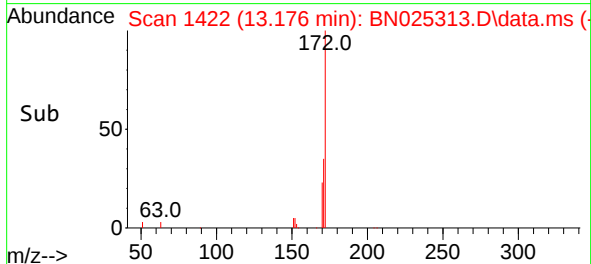
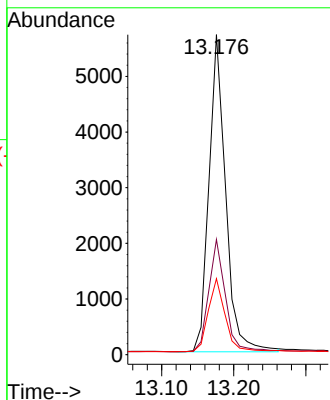
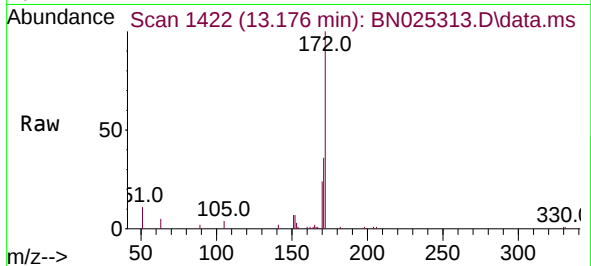




#15
2-Fluorobiphenyl
Concen: 0.207 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

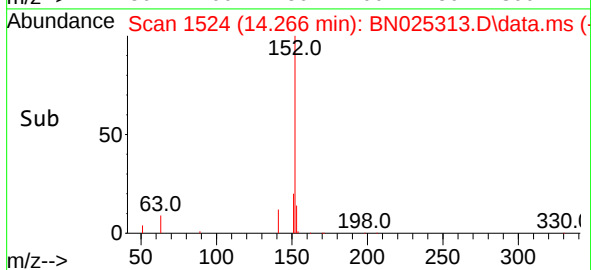
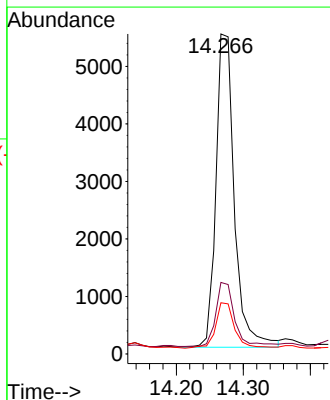
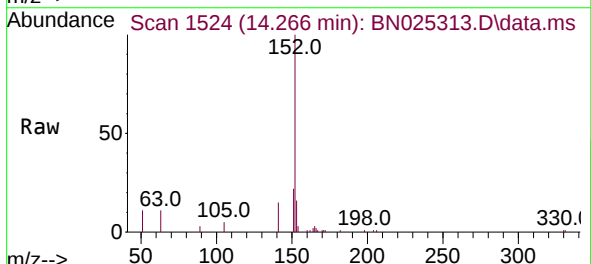
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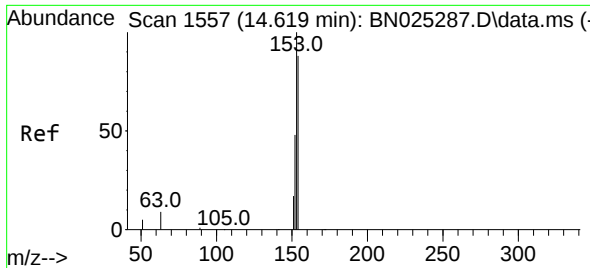
Tgt Ion:	172	Resp:	9175
Ion Ratio	Lower	Upper	
172	100		
171	36.0	27.9	41.9
170	23.8	19.0	28.4



#16
Acenaphthylene
Concen: 0.180 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.011 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion:	152	Resp:	10446
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.1	24.1
153	14.9	10.3	15.5

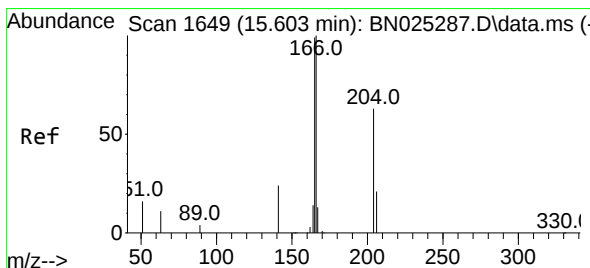
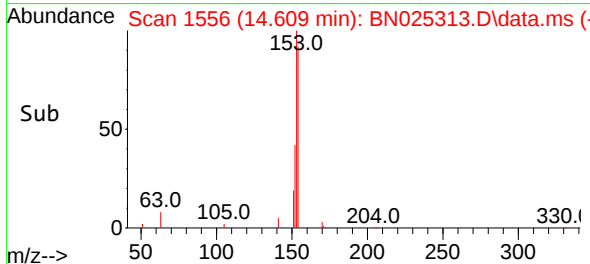
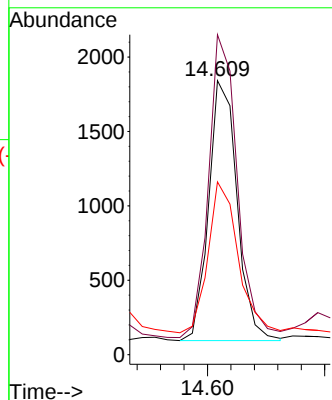
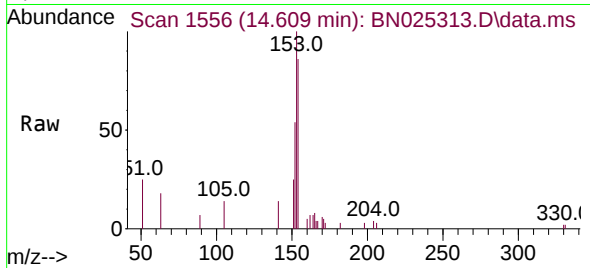




#17
Acenaphthene
Concen: 0.082 ng
RT: 14.609 min Scan# 1556
Delta R.T. -0.011 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

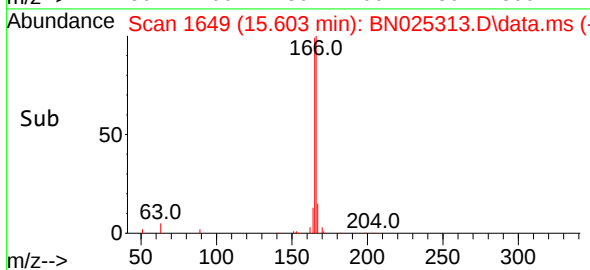
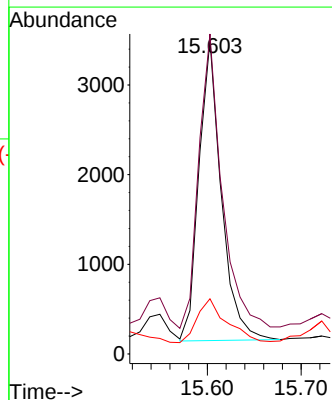
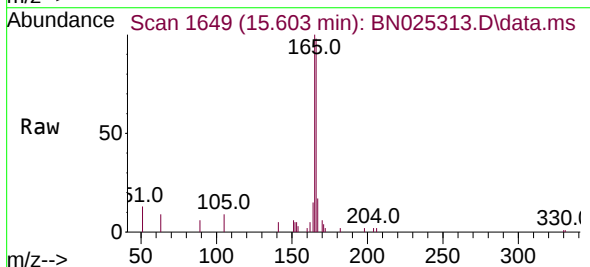
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

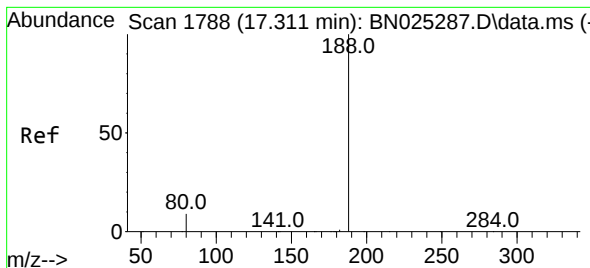
Tgt Ion:	154	Resp:	2946
Ion Ratio	Lower	Upper	
154	100		
153	117.6	91.3	136.9
152	64.8	44.7	67.1



#18
Fluorene
Concen: 0.112 ng
RT: 15.603 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion:	166	Resp:	5543
Ion Ratio	Lower	Upper	
166	100		
165	102.1	79.0	118.4
167	19.3	10.3	15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

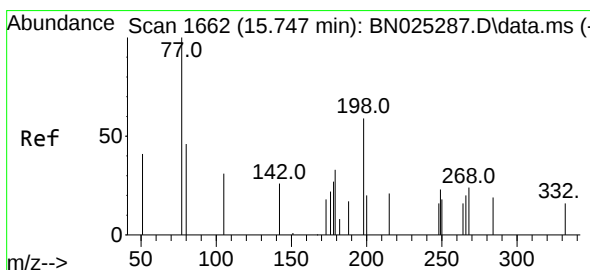
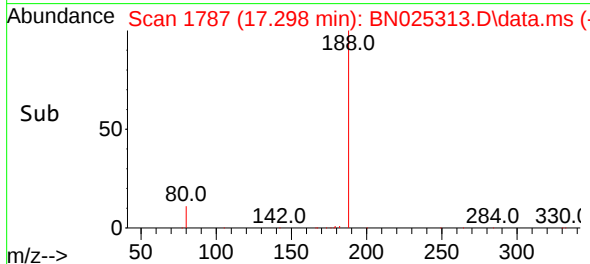
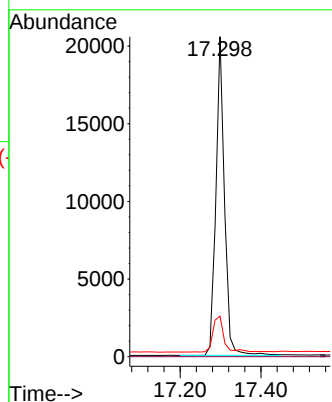
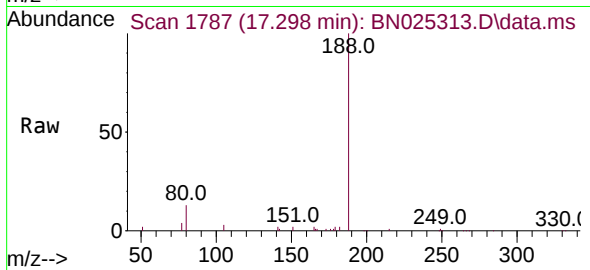
Tgt Ion:188 Resp: 30394

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.7 8.0 12.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.286 ng

RT: 15.710 min Scan# 1659

Delta R.T. -0.037 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

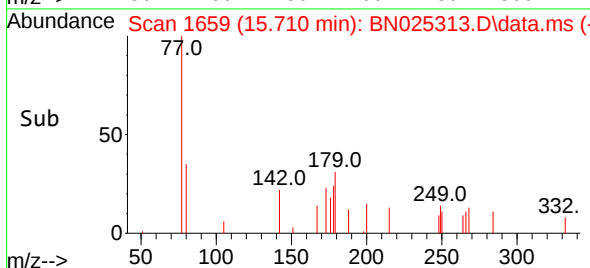
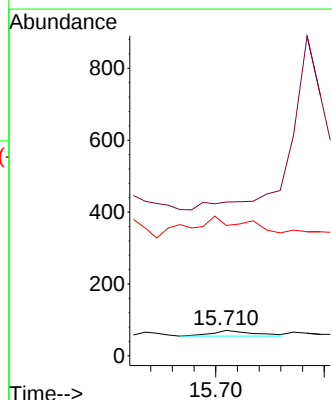
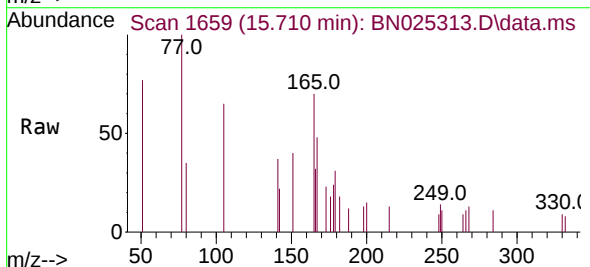
Tgt Ion:198 Resp: 41

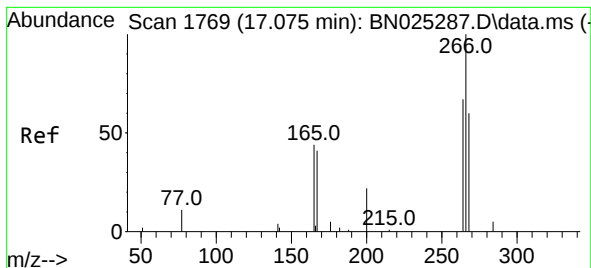
Ion Ratio Lower Upper

198 100

51 602.8 162.1 243.1#

105 511.3 83.1 124.7#





#24

Pentachlorophenol

Concen: 0.267 ng

RT: 17.063 min Scan# 1768

Delta R.T. -0.012 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

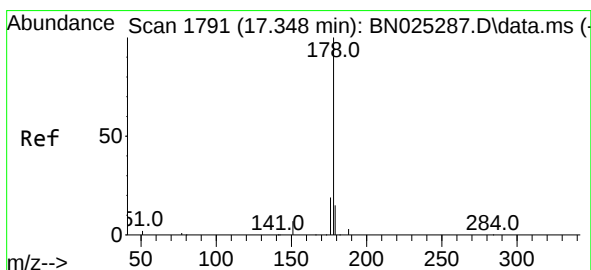
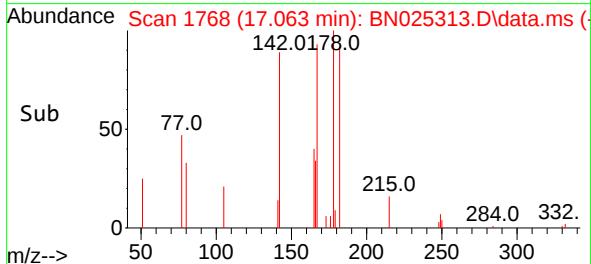
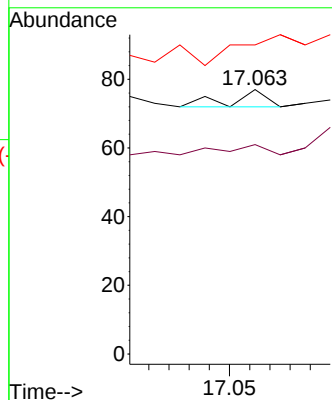
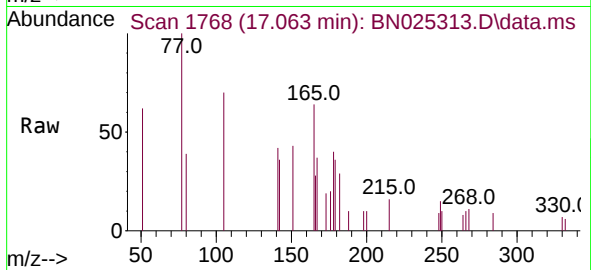
Tgt Ion:266 Resp: 6

Ion Ratio Lower Upper

266 100

264 0.0 43.0 64.4#

268 0.0 47.4 71.2#



#25

Phenanthrene

Concen: 0.828 ng

RT: 17.336 min Scan# 1790

Delta R.T. -0.012 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

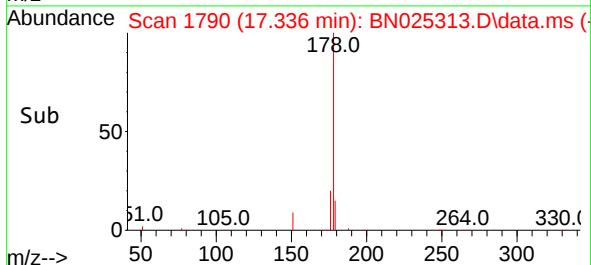
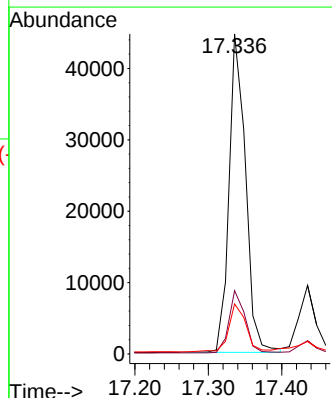
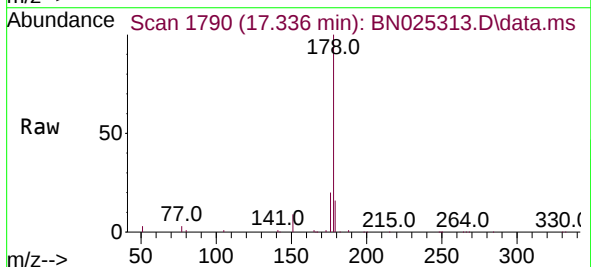
Tgt Ion:178 Resp: 69667

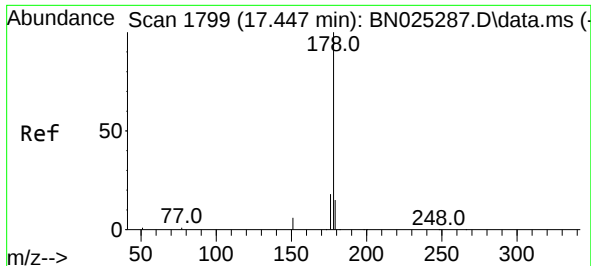
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.9 12.4 18.6

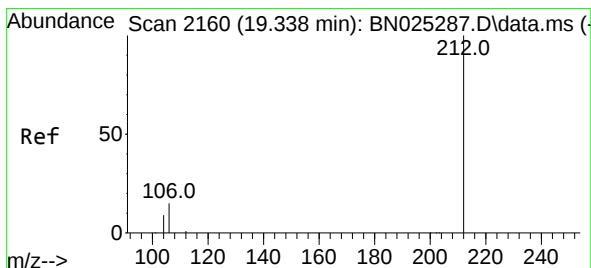
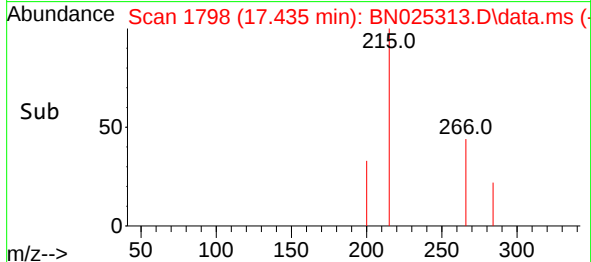
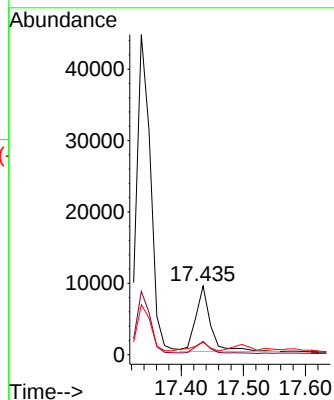
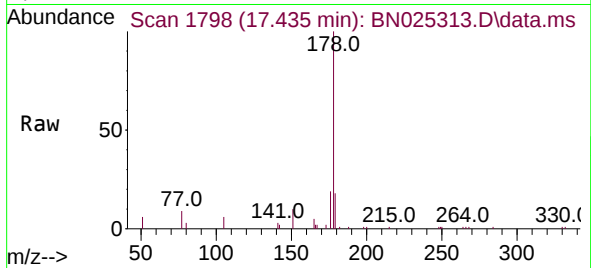




#26
 Anthracene
 Concen: 0.192 ng
 RT: 17.435 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

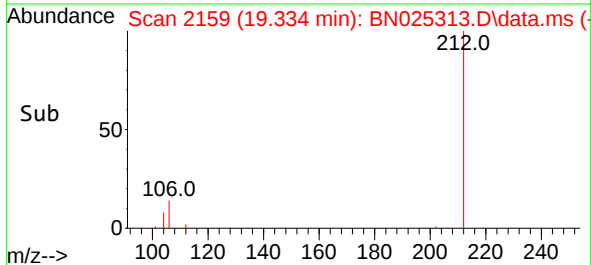
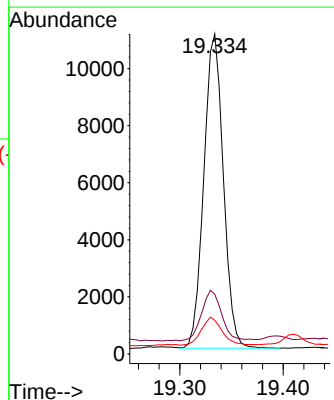
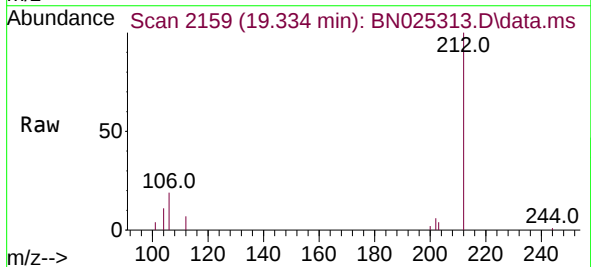
Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

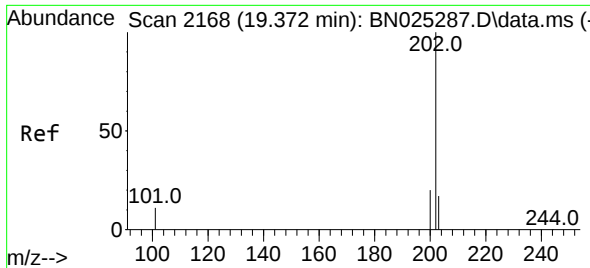
Tgt Ion:178 Resp: 15111
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.9 22.3
 179 13.7 12.0 18.0



#27
 Fluoranthene-d10
 Concen: 0.192 ng
 RT: 19.334 min Scan# 2159
 Delta R.T. -0.004 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Tgt Ion:212 Resp: 14413
 Ion Ratio Lower Upper
 212 100
 106 17.0 12.6 19.0
 104 9.6 7.0 10.6

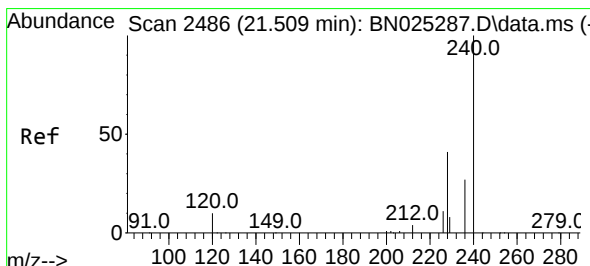
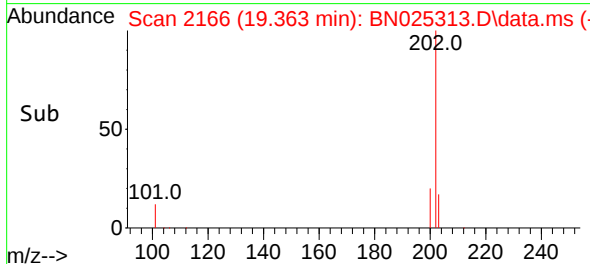
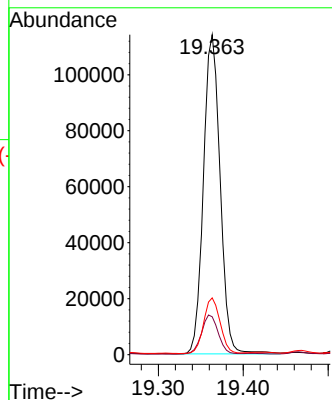
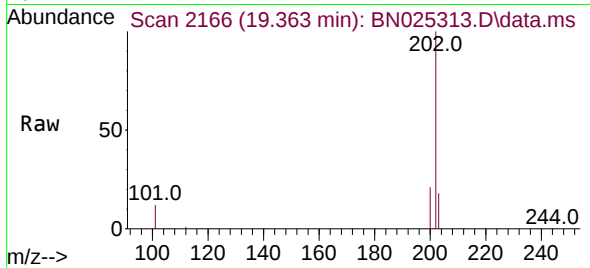




#28
Fluoranthene
Concen: 1.486 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.008 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

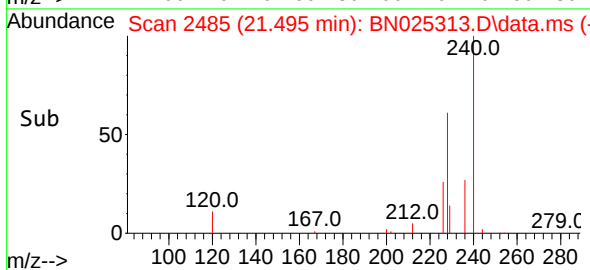
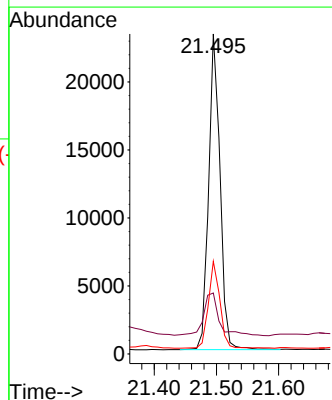
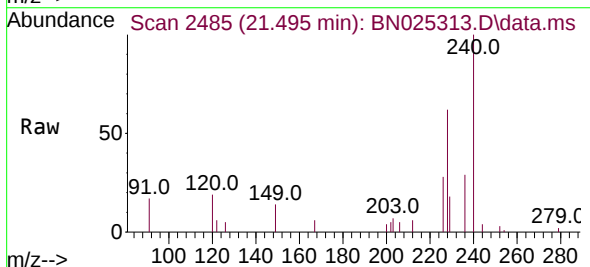
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

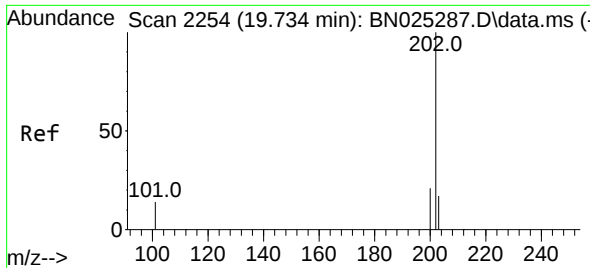
Tgt Ion:202 Resp: 156180
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.1 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.014 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion:240 Resp: 29484
Ion Ratio Lower Upper
240 100
120 19.0 10.3 15.5#
236 29.0 22.3 33.5

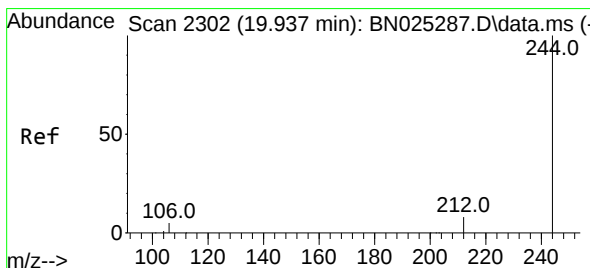
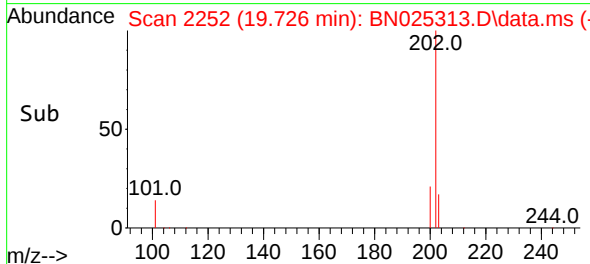
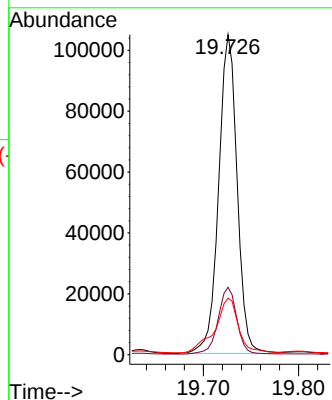
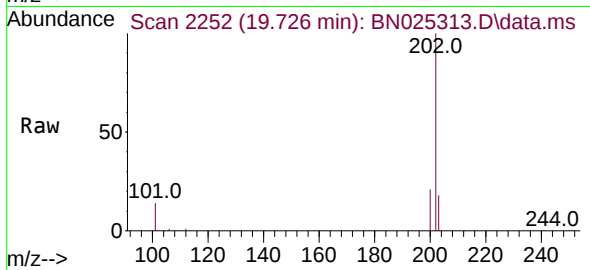




#30
 Pyrene
 Concen: 1.407 ng
 RT: 19.726 min Scan# 21
 Delta R.T. -0.008 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

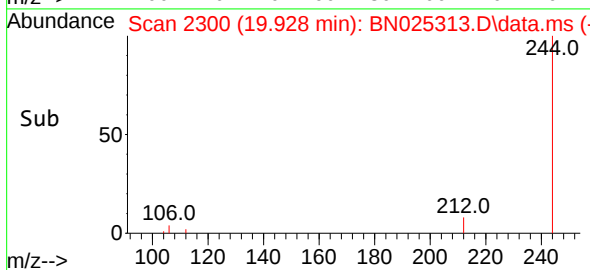
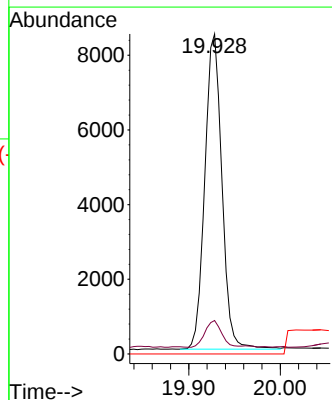
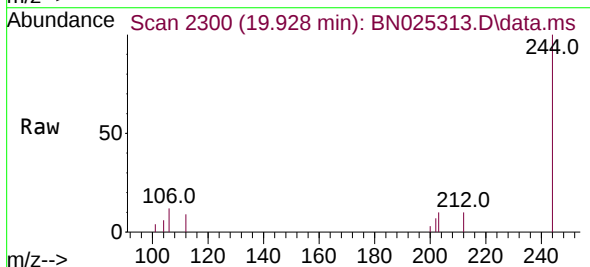
Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

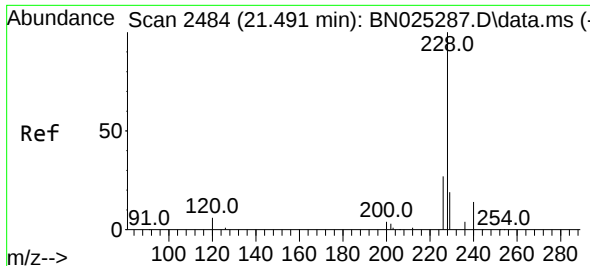
Tgt Ion:202 Resp: 141803
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.8 25.2
 203 21.6 14.4 21.6#



#31
 Terphenyl-d14
 Concen: 0.185 ng
 RT: 19.928 min Scan# 2300
 Delta R.T. -0.008 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Tgt Ion:244 Resp: 11001
 Ion Ratio Lower Upper
 244 100
 212 10.4 7.1 10.7
 122 0.0 0.0 0.0

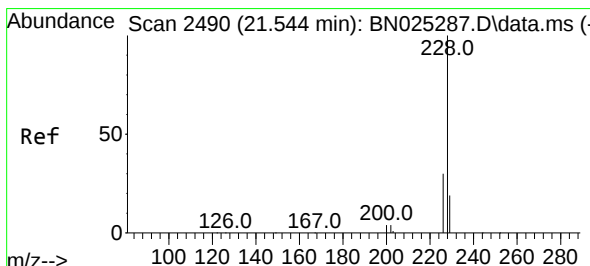
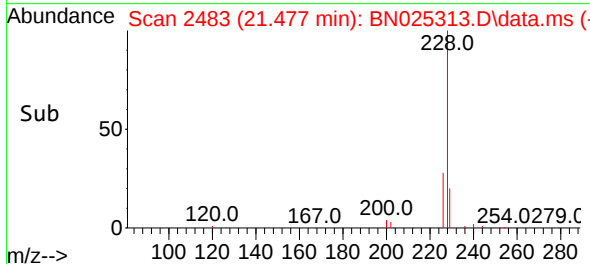
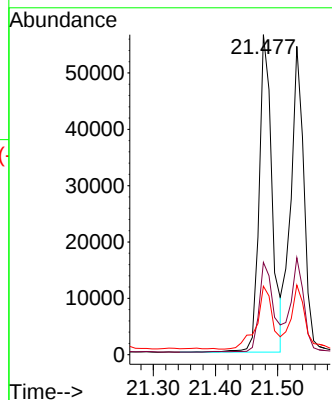
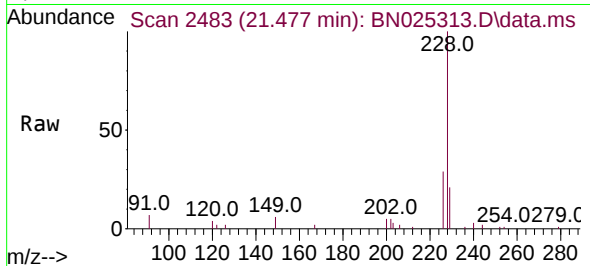




#32
Benzo(a)anthracene
Concen: 0.818 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.014 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

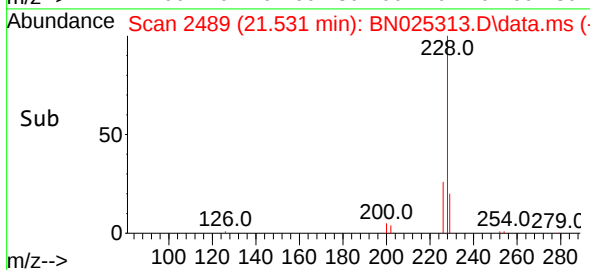
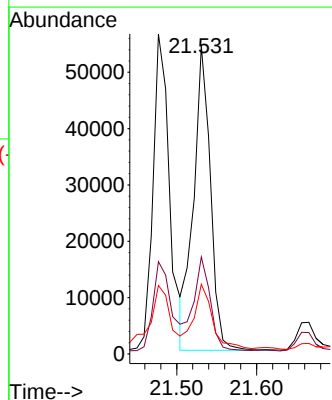
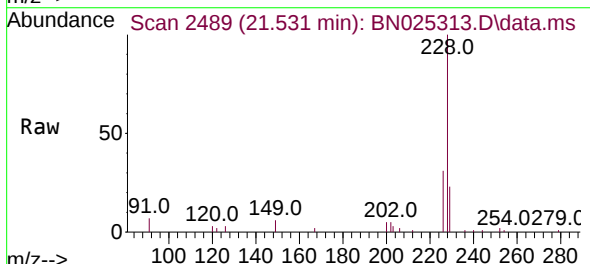
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

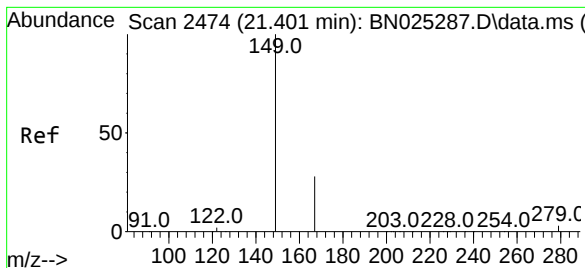
Tgt Ion:228 Resp: 81524
Ion Ratio Lower Upper
228 100
226 28.8 22.5 33.7
229 21.4 16.2 24.2



#33
Chrysene
Concen: 0.800 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.014 min
Lab File: BN025313.D
Acq: 06 May 2023 13:33

Tgt Ion:228 Resp: 79389
Ion Ratio Lower Upper
228 100
226 31.4 24.6 36.8
229 22.6 16.2 24.4

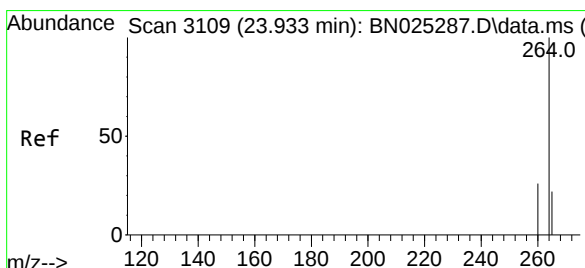
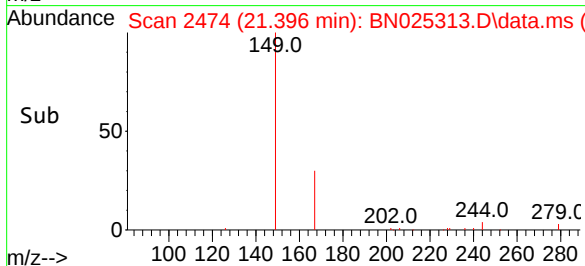
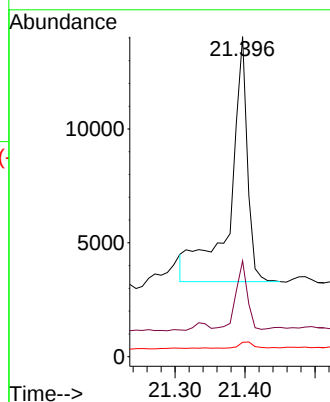
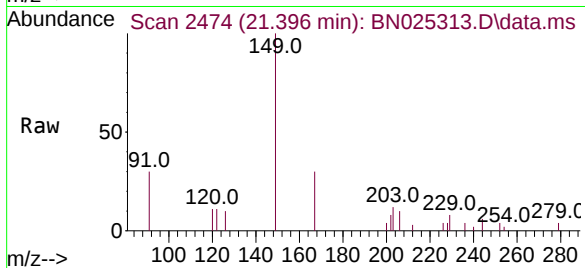




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.238 ng
 RT: 21.396 min Scan# 2474
 Delta R.T. -0.005 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

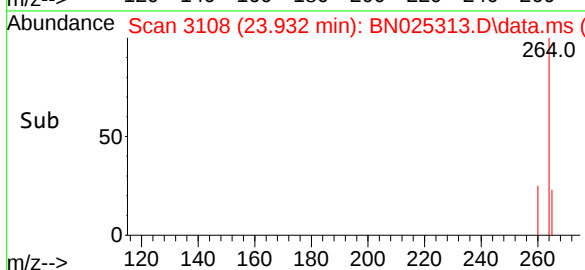
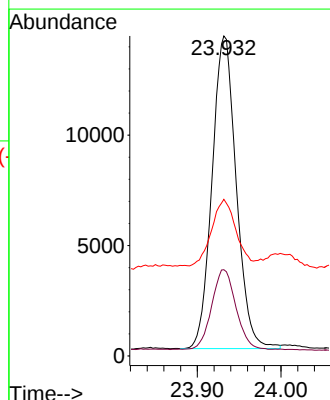
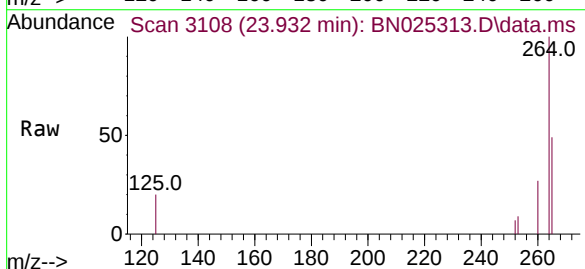
Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

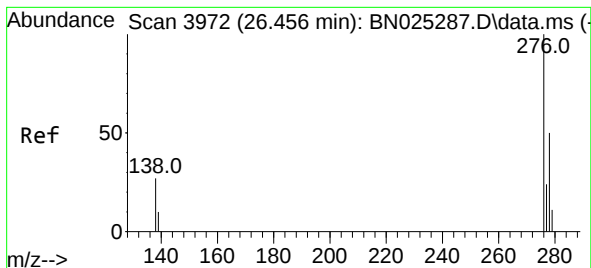
Tgt Ion:149 Resp: 18627
 Ion Ratio Lower Upper
 149 100
 167 18.3 22.2 33.4#
 279 2.0 2.6 4.0#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.932 min Scan# 3108
 Delta R.T. -0.002 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Tgt Ion:264 Resp: 28499
 Ion Ratio Lower Upper
 264 100
 260 26.9 21.5 32.3
 265 49.0 46.2 69.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.321 ng

RT: 26.472 min Scan# 3977

Delta R.T. 0.016 min

Lab File: BN025313.D

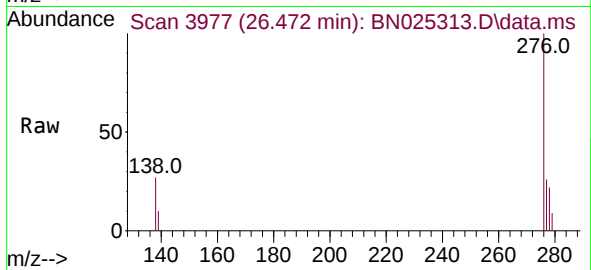
Acq: 06 May 2023 13:33

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023



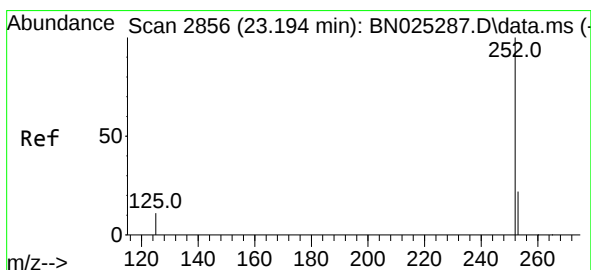
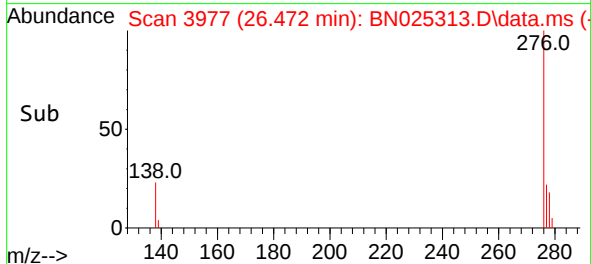
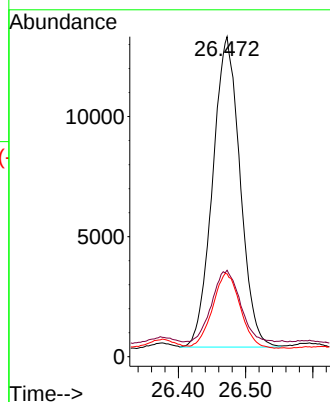
Tgt Ion:276 Resp: 36625

Ion Ratio Lower Upper

276 100

138 23.6 22.5 33.7

277 24.6 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 1.101 ng

RT: 23.195 min Scan# 2856

Delta R.T. 0.001 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

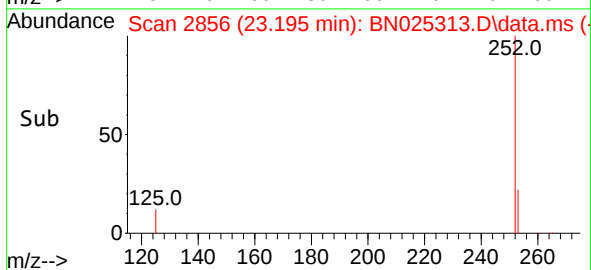
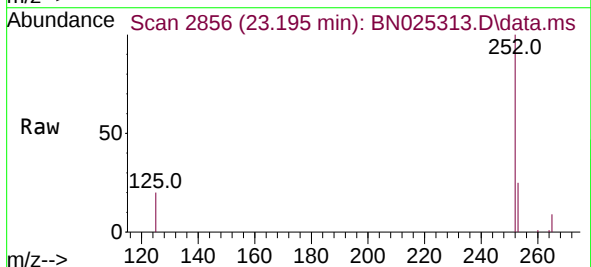
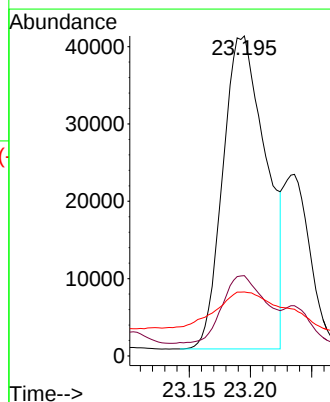
Tgt Ion:252 Resp: 99480

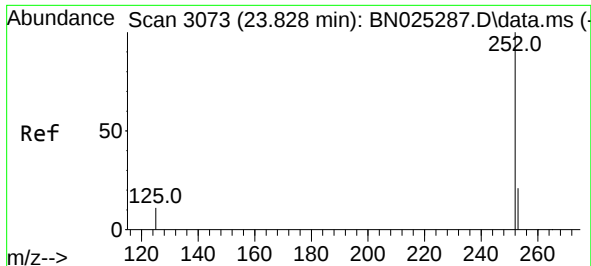
Ion Ratio Lower Upper

252 100

253 25.1 20.8 31.2

125 20.0 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.723 ng

RT: 23.829 min Scan# 3073

Delta R.T. 0.001 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

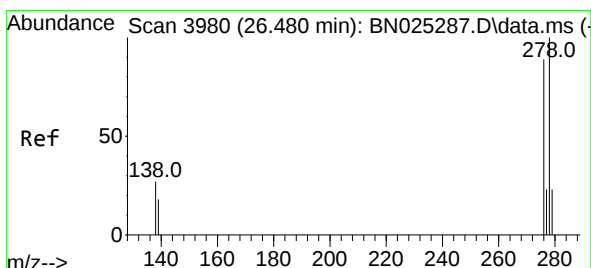
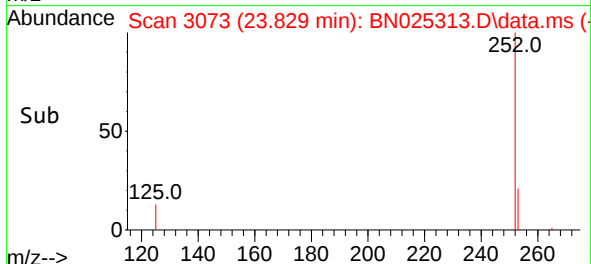
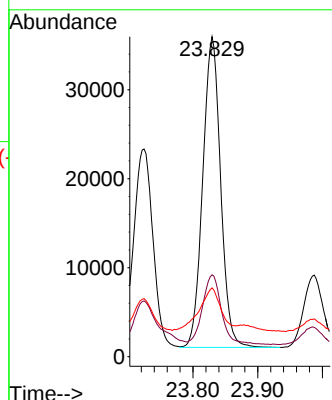
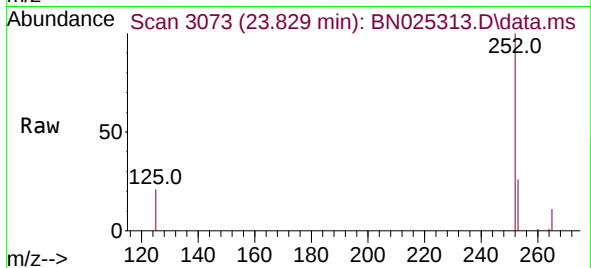
Tgt Ion:252 Resp: 66903

Ion Ratio Lower Upper

252 100

253 25.6 21.4 32.0

125 21.5 15.4 23.2



#40

Dibenzo(a,h)anthracene

Concen: 0.103 ng

RT: 26.484 min Scan# 3981

Delta R.T. 0.004 min

Lab File: BN025313.D

Acq: 06 May 2023 13:33

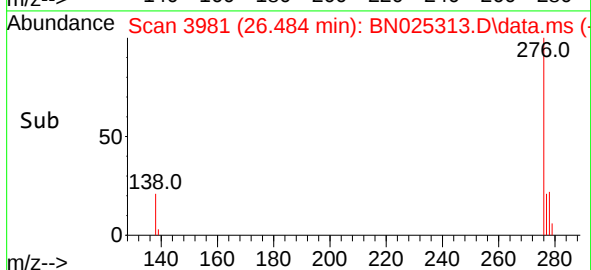
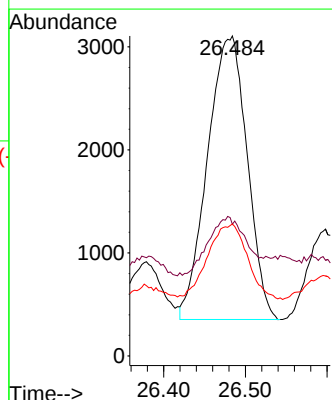
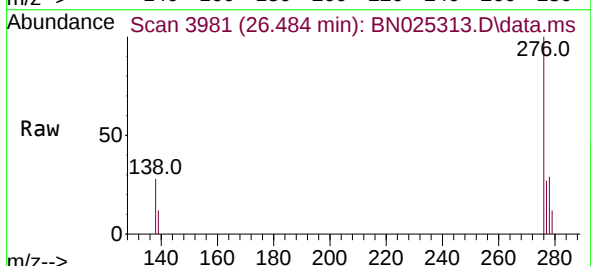
Tgt Ion:278 Resp: 9289

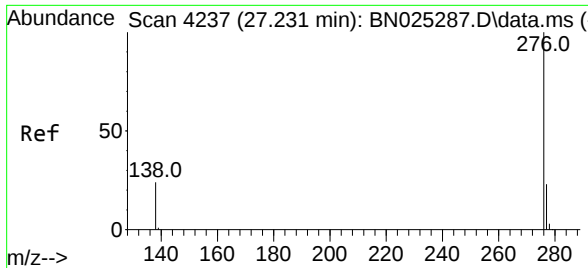
Ion Ratio Lower Upper

278 100

139 41.2 17.6 26.4#

279 41.3 21.6 32.4#





#41
 Benzo(g,h,i)perylene
 Concen: 0.360 ng
 RT: 27.256 min Scan# 41
 Delta R.T. 0.025 min
 Lab File: BN025313.D
 Acq: 06 May 2023 13:33

Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

Tgt Ion:	276	Resp:	35682
Ion Ratio	Lower	Upper	
276	100		
277	25.9	20.1	30.1
138	27.7	21.0	31.6

