

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025341.D
 Acq On : 08 May 2023 20:10
 Operator : CG/JU
 Sample : 02588-14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: May 09 04:04:05 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 18:27:02 2023
 Response via : Initial Calibration

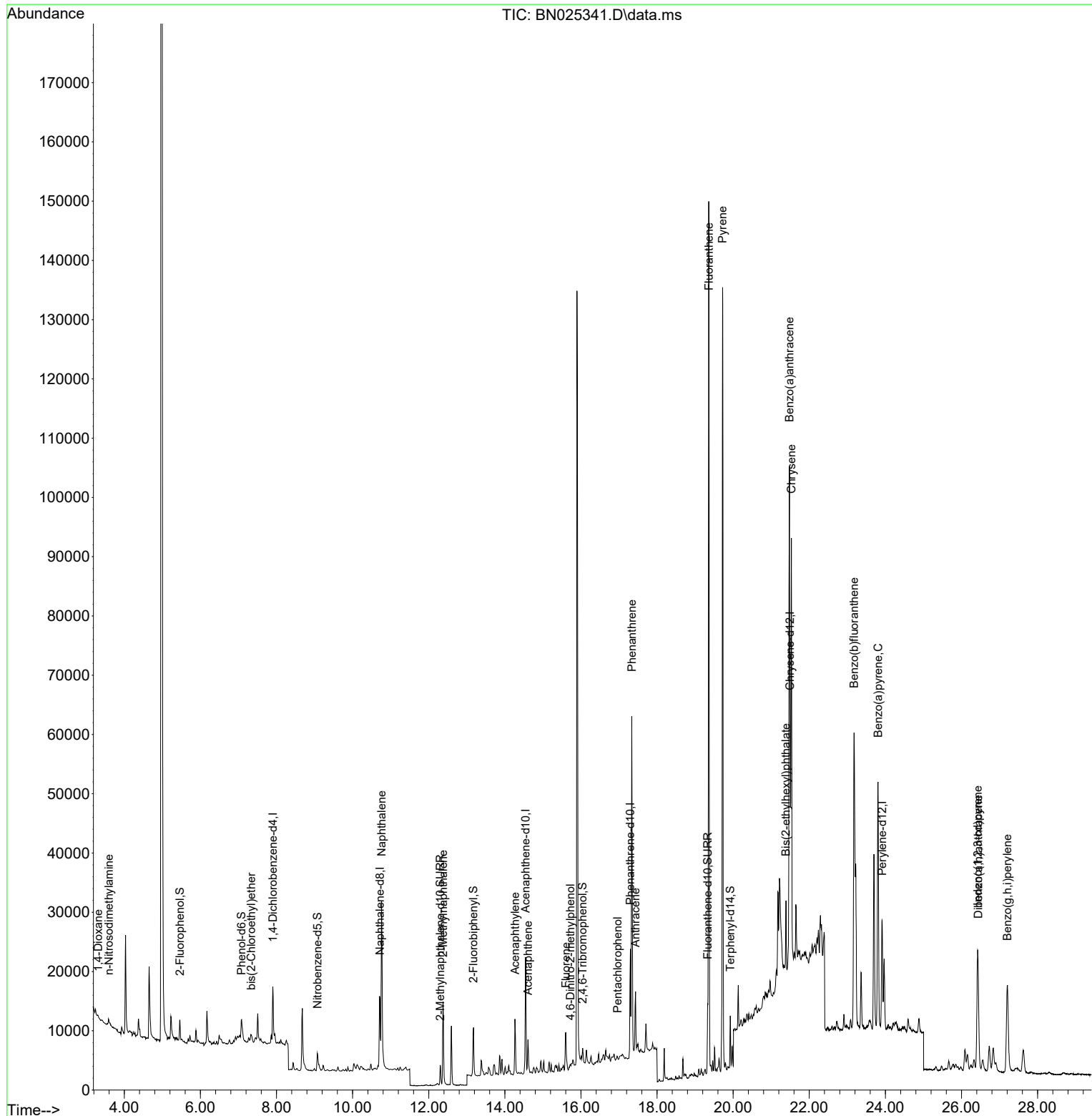
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	5497	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	17654	0.400	ng	0.00
13) Acenaphthene-d10	14.544	164	11231	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	25269	0.400	ng	0.00
29) Chrysene-d12	21.495	240	25813	0.400	ng	0.00
35) Perylene-d12	23.914	264	26303	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	3312	0.248	ng	0.00
5) Phenol-d6	7.080	99	4367	0.260	ng	0.00
8) Nitrobenzene-d5	9.073	82	2920	0.201	ng	-0.01
11) 2-Methylnaphthalene-d10	12.302	152	5336	0.221	ng	0.00
14) 2,4,6-Tribromophenol	16.045	330	1239	0.216	ng	-0.01
15) 2-Fluorobiphenyl	13.176	172	8091	0.210	ng	0.00
27) Fluoranthene-d10	19.329	212	12179	0.195	ng	0.00
31) Terphenyl-d14	19.924	244	9401	0.181	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	199	0.034	ng	# 1
3) n-Nitrosodimethylamine	3.592	42	513	0.058	ng	# 1
6) bis(2-Chloroethyl)ether	7.333	93	982	0.066	ng	94
9) Naphthalene	10.760	128	33669	0.743	ng	99
12) 2-Methylnaphthalene	12.377	142	11344	0.354	ng	99
16) Acenaphthylene	14.266	152	10430	0.207	ng	99
17) Acenaphthene	14.608	154	2679	0.086	ng	97
18) Fluorene	15.603	166	4855	0.113	ng	# 95
20) 4,6-Dinitro-2-methylph...	15.722	198	35	0.287	ng	# 1
24) Pentachlorophenol	16.963	266	66	0.277	ng	# 80
25) Phenanthrene	17.336	178	58353	0.835	ng	99
26) Anthracene	17.435	178	13275	0.203	ng	98
28) Fluoranthene	19.359	202	130868	1.498	ng	99
30) Pyrene	19.722	202	120323	1.364	ng	# 96
32) Benzo(a)anthracene	21.477	228	68548	0.786	ng	97
33) Chrysene	21.531	228	71682	0.825	ng	97
34) Bis(2-ethylhexyl)phtha...	21.387	149	9970	0.146	ng	98
36) Indeno(1,2,3-cd)pyrene	26.426	276	34899	0.331	ng	95
37) Benzo(b)fluoranthene	23.177	252	86703	1.040	ng	# 96
39) Benzo(a)pyrene	23.806	252	61475	0.720	ng	97
40) Dibenzo(a,h)anthracene	26.437	278	9077	0.109	ng	# 56
41) Benzo(g,h,i)perylene	27.206	276	33824	0.370	ng	96

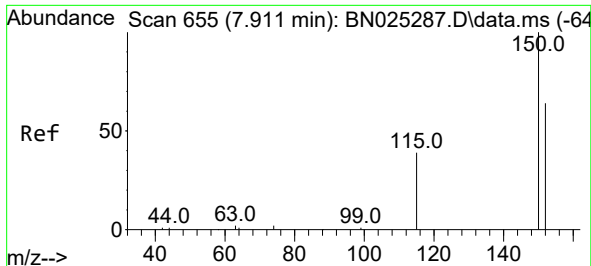
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025341.D
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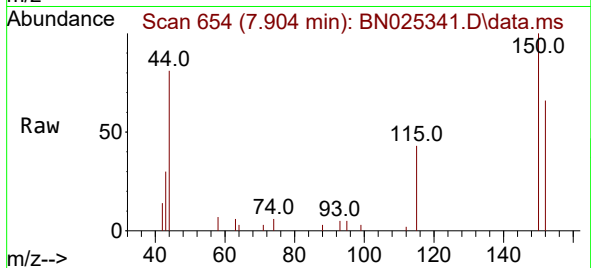
Quant Time: May 09 04:04:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
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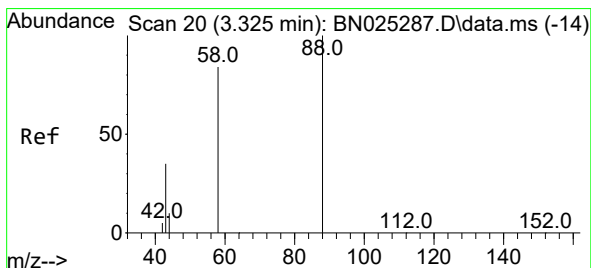
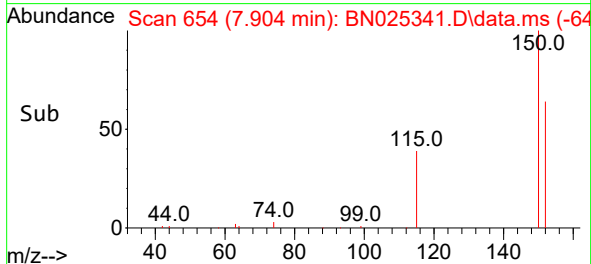
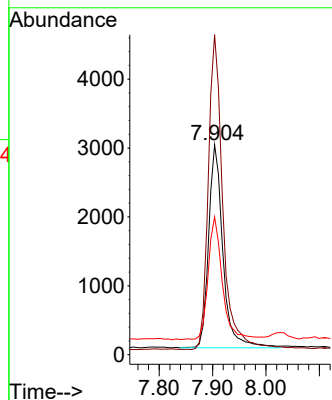
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.904 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

Instrument :
 BNA_N
 ClientSampleId :
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Tgt Ion:152 Resp: 5497

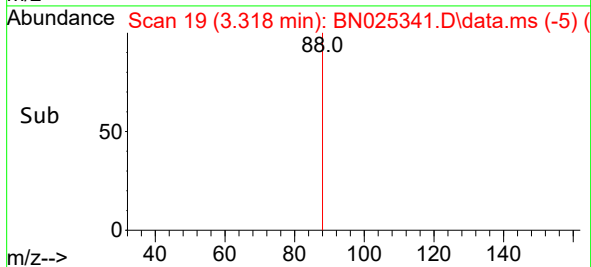
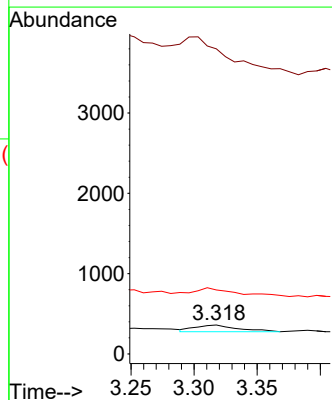
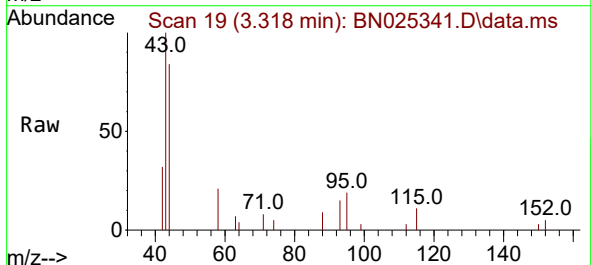
Ion	Ratio	Lower	Upper
152	100		
150	152.4	123.8	185.8
115	65.6	52.9	79.3

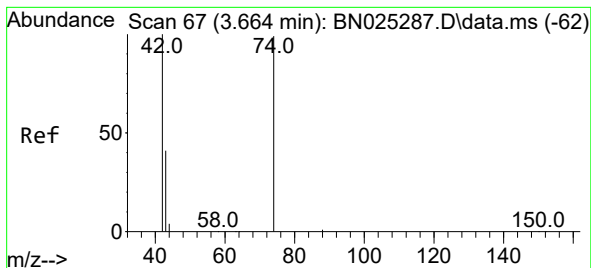


#2
 1,4-Dioxane
 Concen: 0.034 ng
 RT: 3.318 min Scan# 19
 Delta R.T. -0.000 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

Tgt Ion: 88 Resp: 199

Ion	Ratio	Lower	Upper
88	100		
43	540.7	37.2	55.8#
58	110.1	71.5	107.3#





#3

n-Nitrosodimethylamine

Concen: 0.058 ng

RT: 3.592 min Scan# 51

Delta R.T. -0.065 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

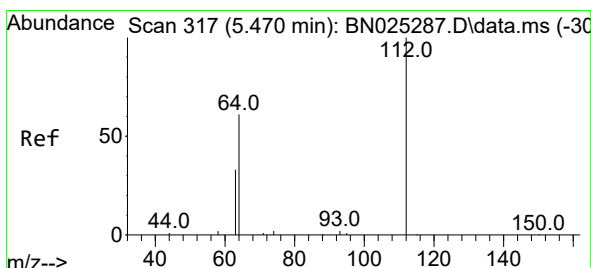
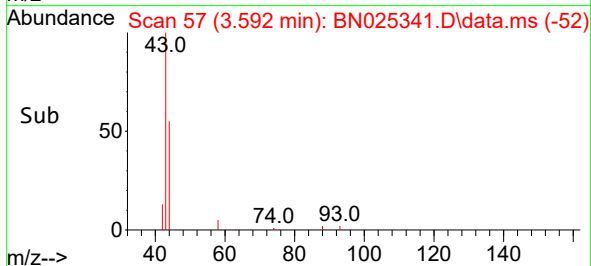
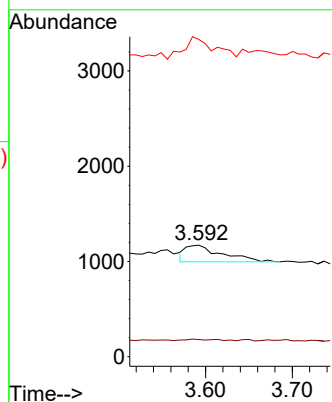
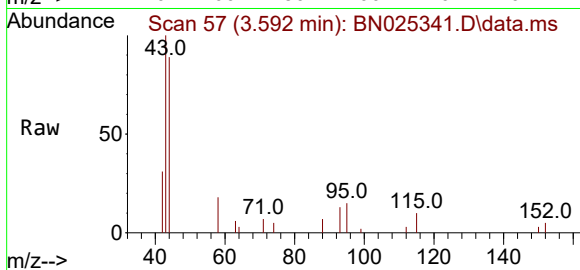
Tgt Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

74 1.4 79.9 119.9#

44 77.8 7.0 10.6#



#4

2-Fluorophenol

Concen: 0.248 ng

RT: 5.463 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

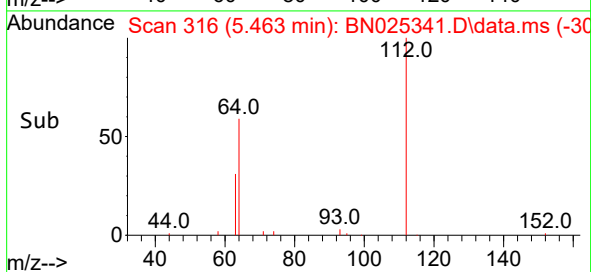
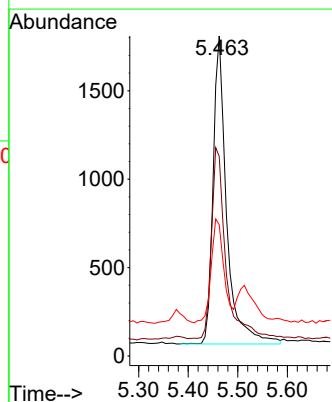
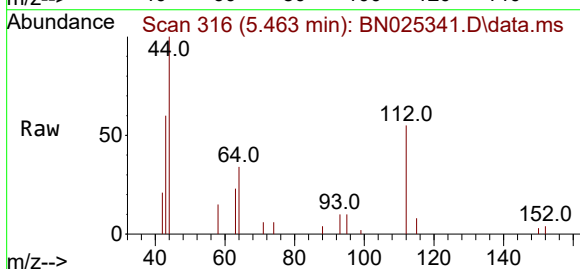
Tgt Ion: 112 Resp: 3312

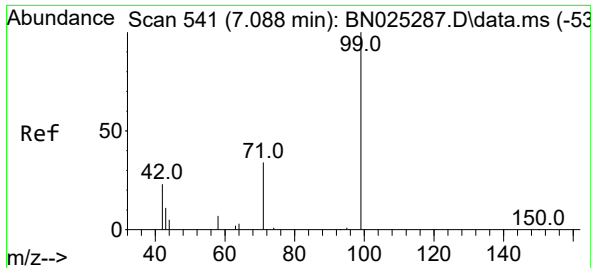
Ion Ratio Lower Upper

112 100

64 65.0 51.5 77.3

63 31.8 27.8 41.6





#5

Phenol-d6

Concen: 0.260 ng

RT: 7.080 min Scan# 541

Delta R.T. 0.007 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

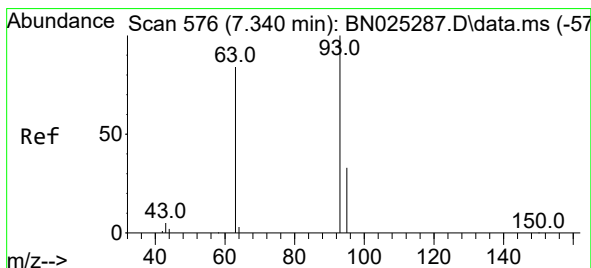
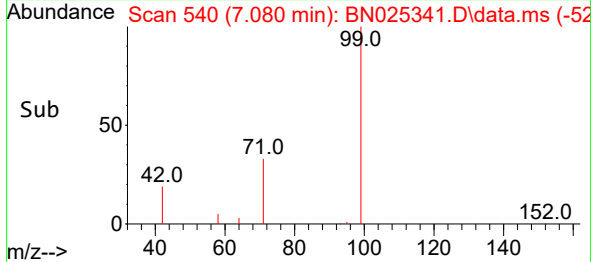
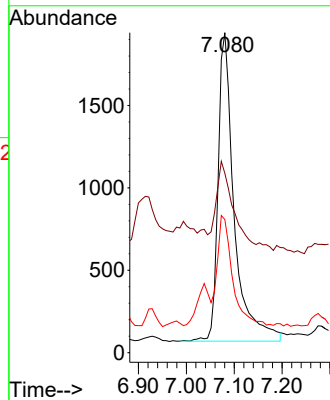
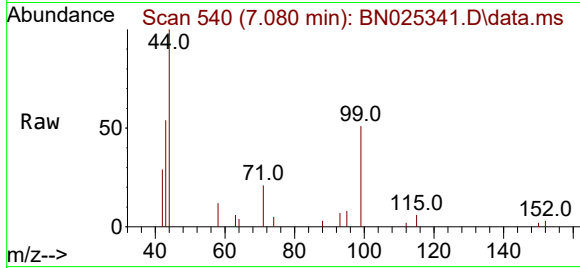
Tgt Ion: 99 Resp: 4367

Ion Ratio Lower Upper

99 100

42 32.4 22.0 33.0

71 33.4 28.7 43.1



#6

bis(2-Chloroethyl)ether

Concen: 0.066 ng

RT: 7.333 min Scan# 575

Delta R.T. 0.007 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

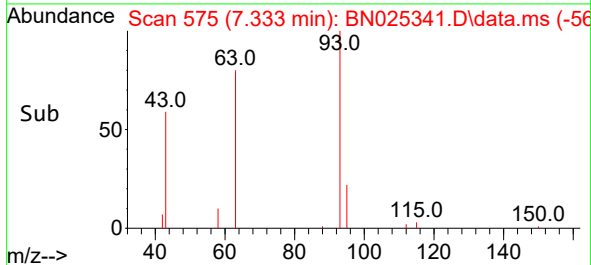
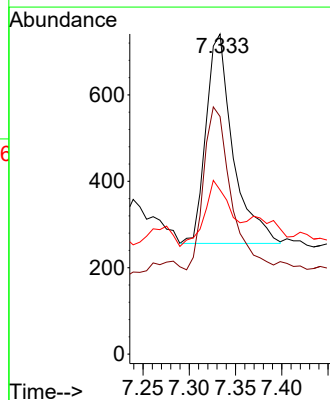
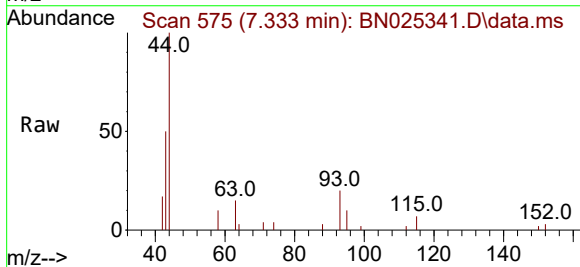
Tgt Ion: 93 Resp: 982

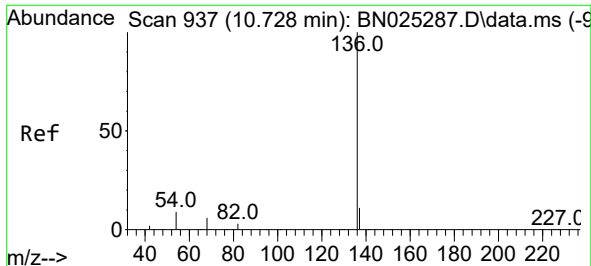
Ion Ratio Lower Upper

93 100

63 78.9 67.8 101.6

95 29.8 26.7 40.1

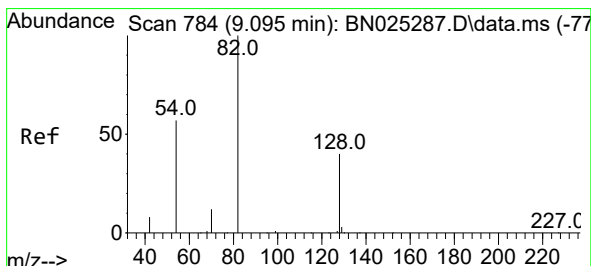
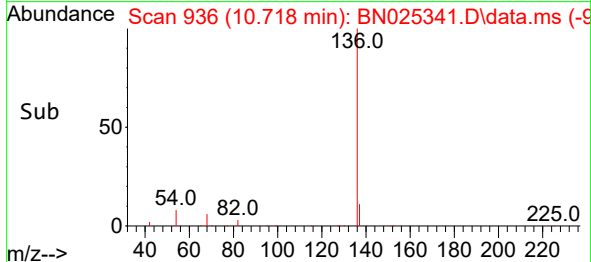
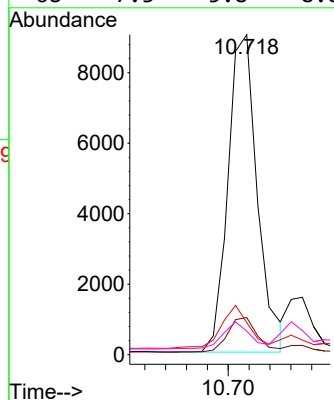
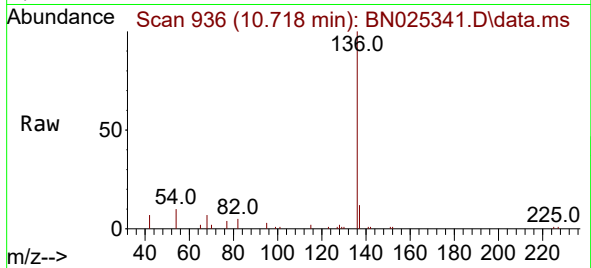




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

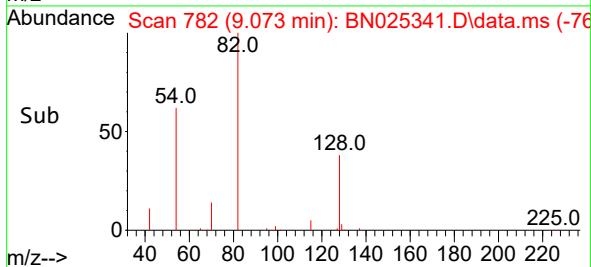
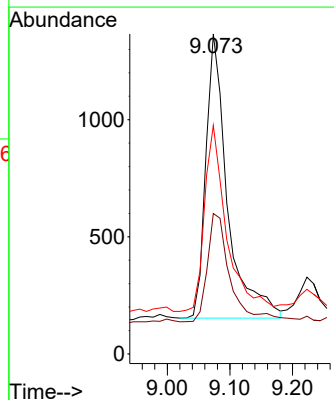
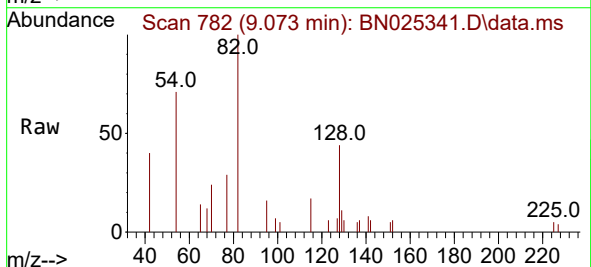
Instrument :
BNA_N
ClientSampleId :
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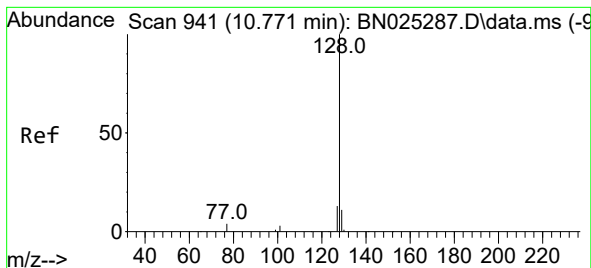
Tgt Ion:136	Resp:	17654
Ion Ratio	Lower	Upper
136	100	
137	11.6	9.4 14.2
54	10.0	8.5 12.7
68	7.3	5.8 8.8



#8
Nitrobenzene-d5
Concen: 0.201 ng
RT: 9.073 min Scan# 782
Delta R.T. -0.011 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion: 82	Resp:	2920
Ion Ratio	Lower	Upper
82	100	
128	43.9	35.3 52.9
54	71.4	48.7 73.1





#9

Naphthalene

Concen: 0.743 ng

RT: 10.760 min Scan# 941

Delta R.T. -0.000 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

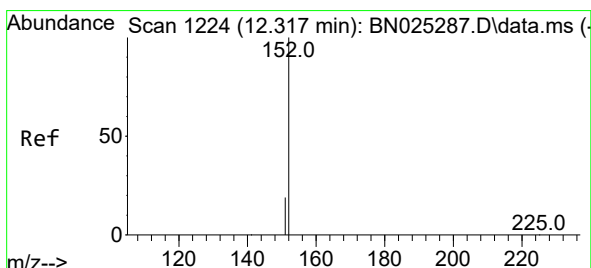
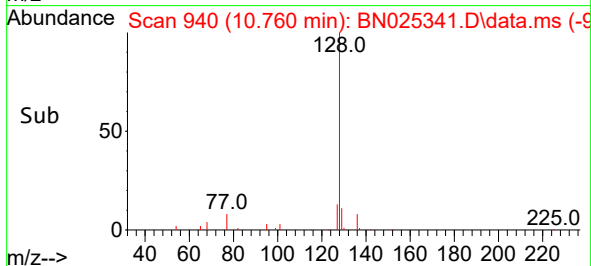
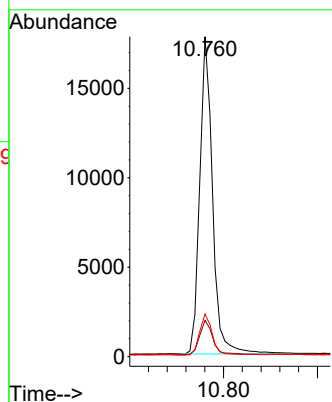
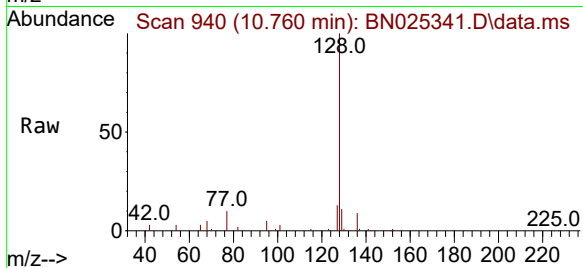
Tgt Ion:128 Resp: 33669

Ion Ratio Lower Upper

128 100

129 11.3 9.4 14.2

127 13.3 11.0 16.6



#11

2-Methylnaphthalene-d10

Concen: 0.221 ng

RT: 12.302 min Scan# 1220

Delta R.T. -0.004 min

Lab File: BN025341.D

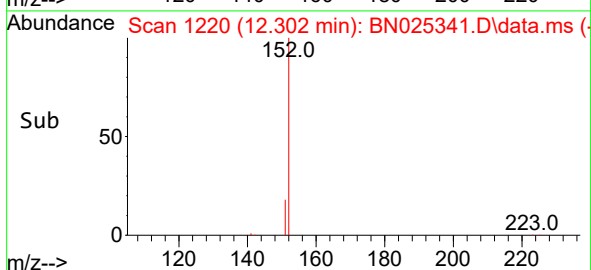
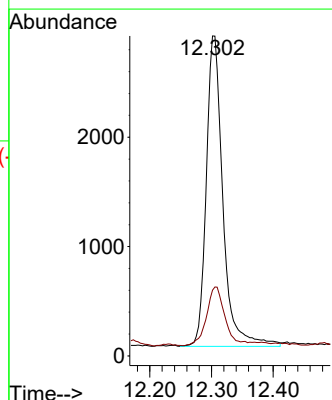
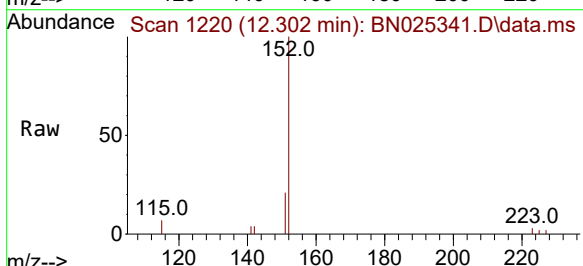
Acq: 08 May 2023 20:10

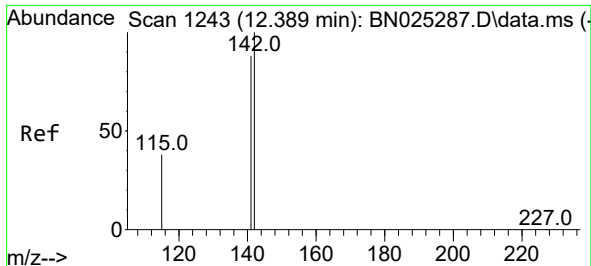
Tgt Ion:152 Resp: 5336

Ion Ratio Lower Upper

152 100

151 21.2 16.4 24.6





#12

2-Methylnaphthalene

Concen: 0.354 ng

RT: 12.377 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN025341.D

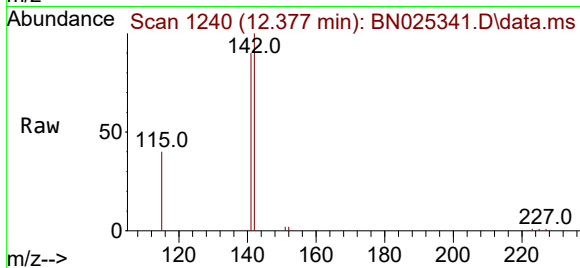
Acq: 08 May 2023 20:10

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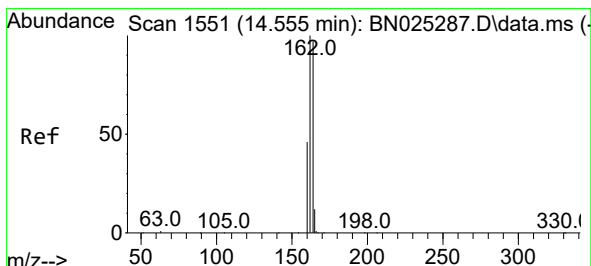
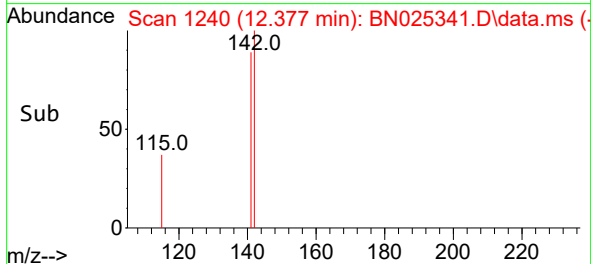
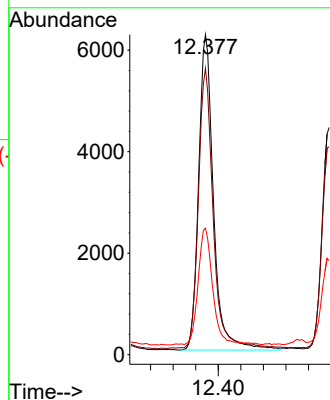
Tgt Ion:142 Resp: 11344

Ion Ratio Lower Upper

142 100

141 89.5 70.5 105.7

115 39.5 31.6 47.4



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.544 min Scan# 1550

Delta R.T. -0.000 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

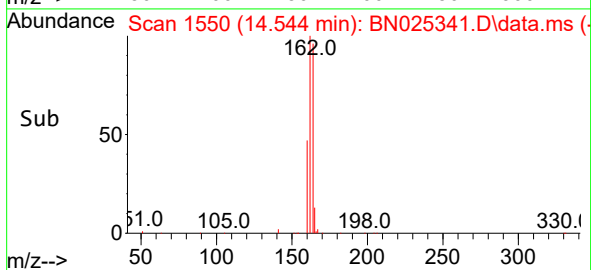
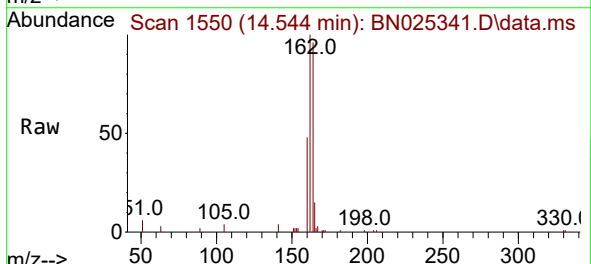
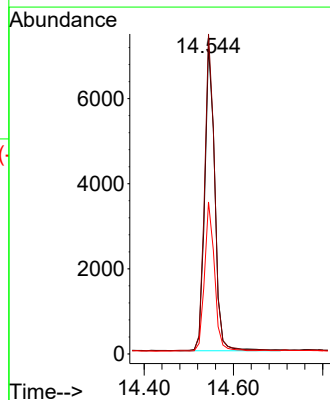
Tgt Ion:164 Resp: 11231

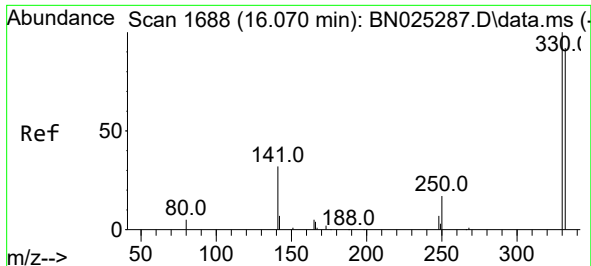
Ion Ratio Lower Upper

164 100

162 103.9 82.1 123.1

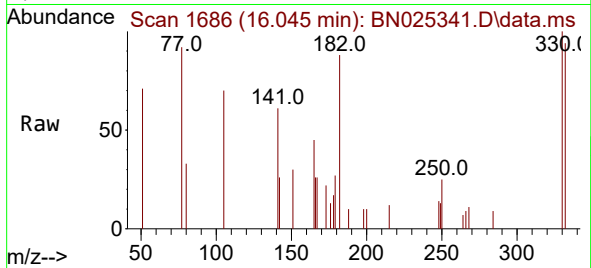
160 49.4 38.3 57.5



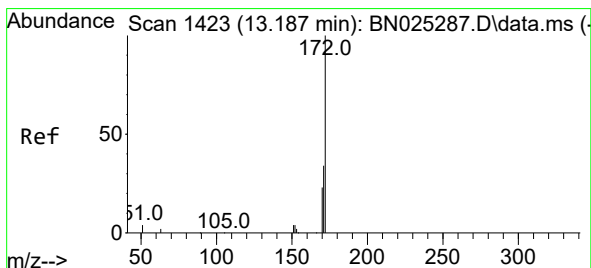
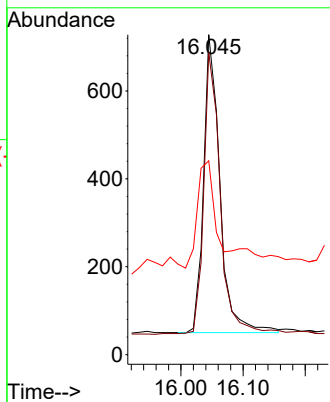
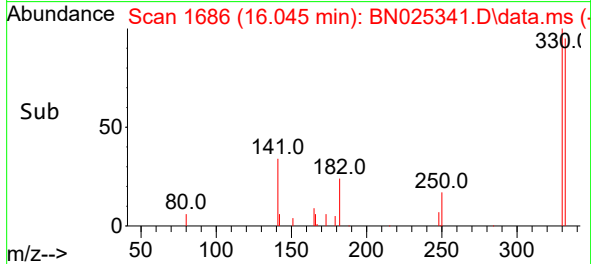


#14
2,4,6-Tribromophenol
Concen: 0.216 ng
RT: 16.045 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

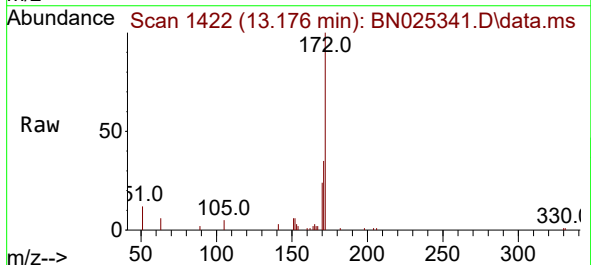
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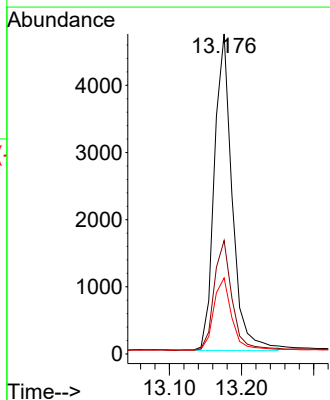
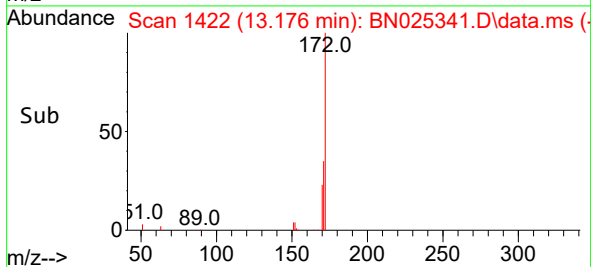
Tgt Ion:330 Resp: 1239
Ion Ratio Lower Upper
330 100
332 94.3 77.4 116.0
141 40.4 28.9 43.3

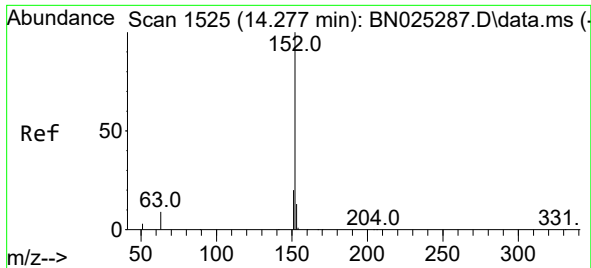


#15
2-Fluorobiphenyl
Concen: 0.210 ng
RT: 13.176 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10



Tgt Ion:172 Resp: 8091
Ion Ratio Lower Upper
172 100
171 35.4 27.9 41.9
170 23.7 19.0 28.4

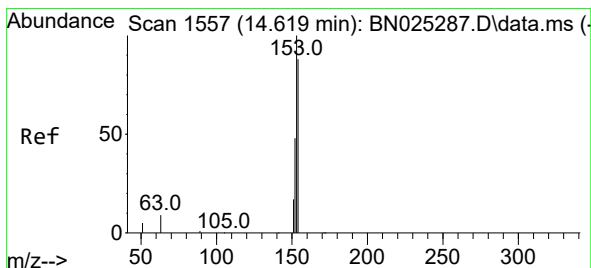
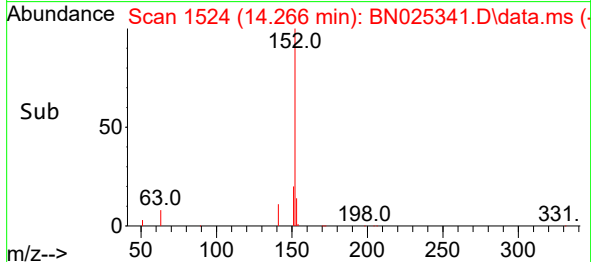
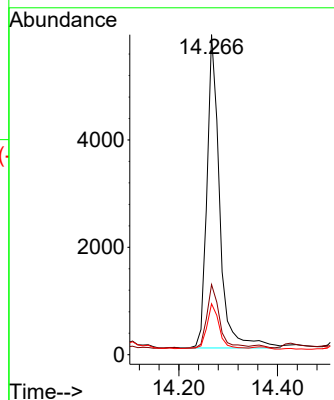
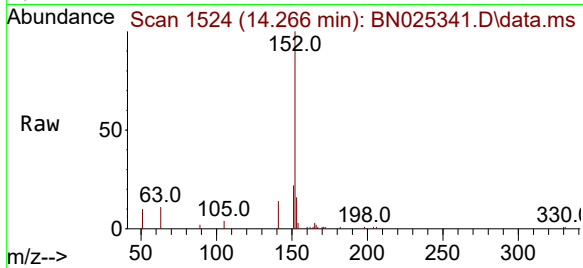




#16
Acenaphthylene
Concen: 0.207 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

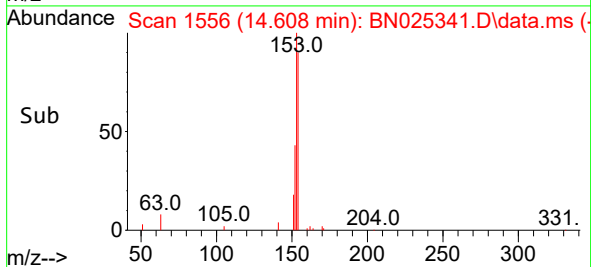
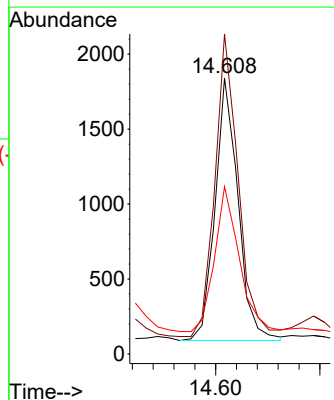
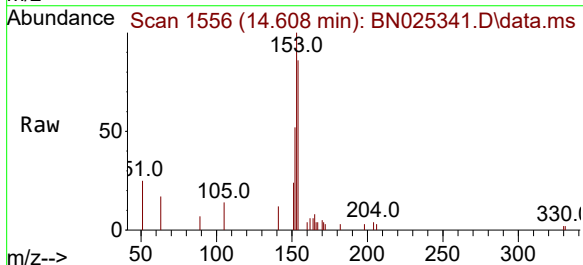
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

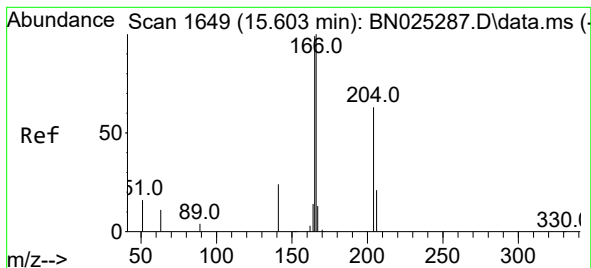
Tgt Ion:152 Resp: 10430
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 14.2 10.3 15.5



#17
Acenaphthene
Concen: 0.086 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:154 Resp: 2679
Ion Ratio Lower Upper
154 100
153 117.0 91.3 136.9
152 59.0 44.7 67.1





#18

Fluorene

Concen: 0.113 ng

RT: 15.603 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

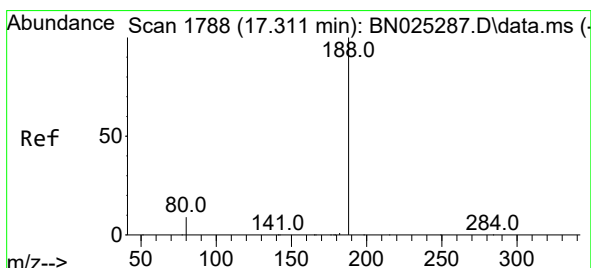
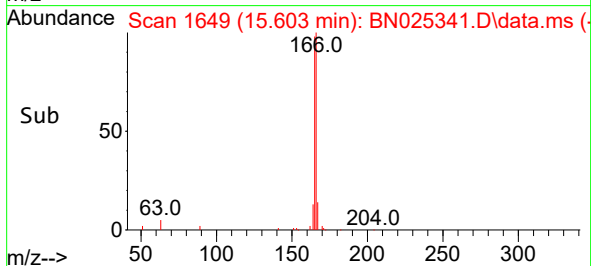
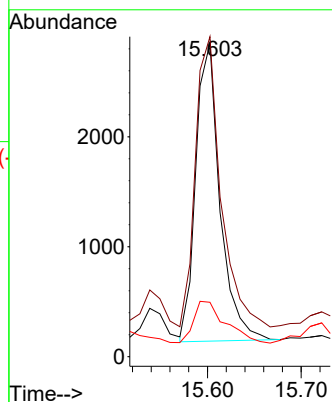
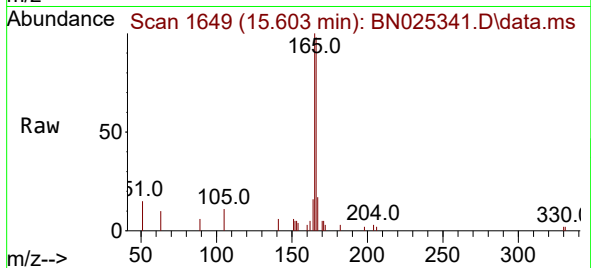
Tgt Ion:166 Resp: 4855

Ion Ratio Lower Upper

166 100

165 102.1 79.0 118.4

167 18.5 10.3 15.5#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 1787

Delta R.T. -0.000 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

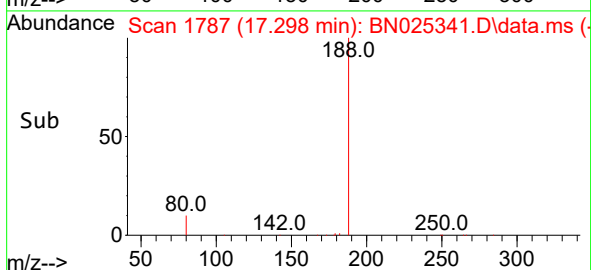
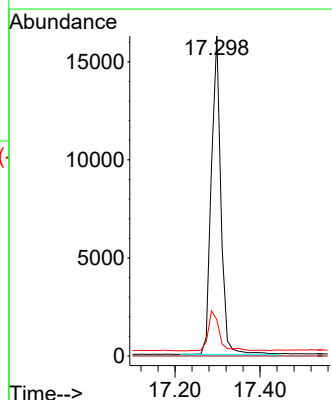
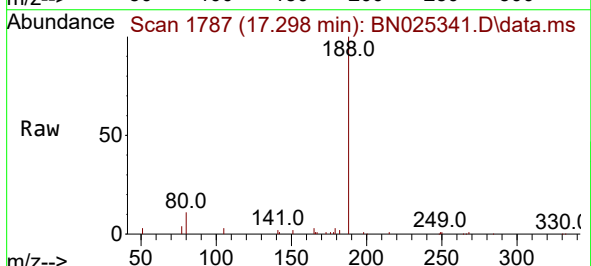
Tgt Ion:188 Resp: 25269

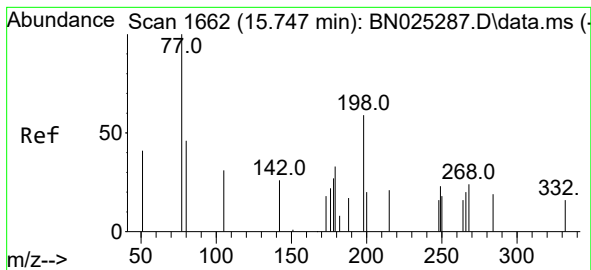
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 8.0 12.0

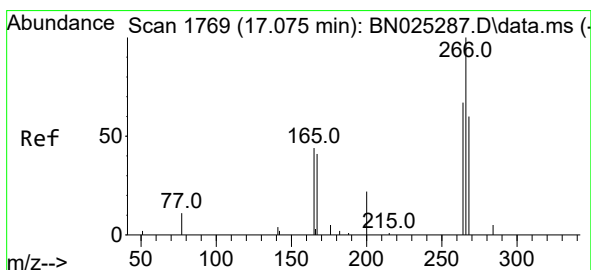
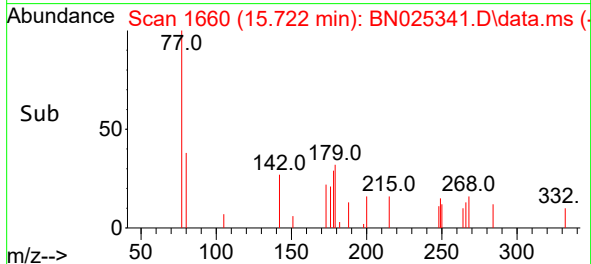
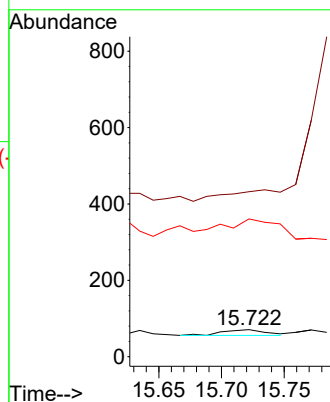
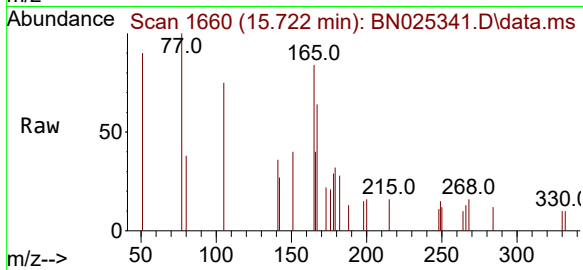




#20
4,6-Dinitro-2-methylphenol
Concen: 0.287 ng
RT: 15.722 min Scan# 1660
Delta R.T. 0.012 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

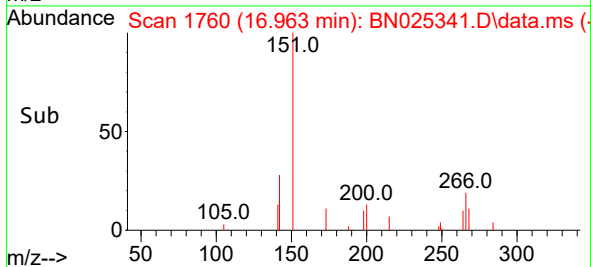
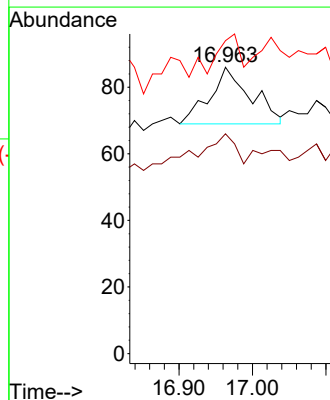
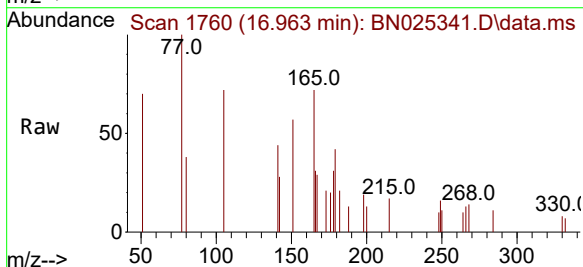
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

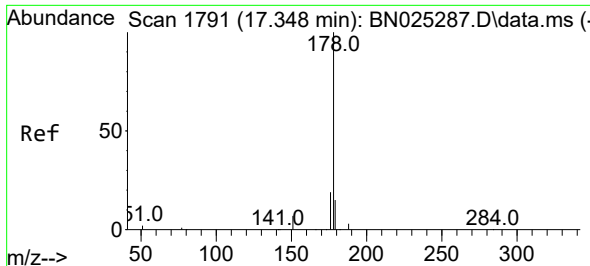
Tgt Ion:198 Resp: 35
Ion Ratio Lower Upper
198 100
51 608.5 162.1 243.1#
105 508.5 83.1 124.7#



#24
Pentachlorophenol
Concen: 0.277 ng
RT: 16.963 min Scan# 1760
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:266 Resp: 66
Ion Ratio Lower Upper
266 100
264 36.4 43.0 64.4#
268 47.0 47.4 71.2#

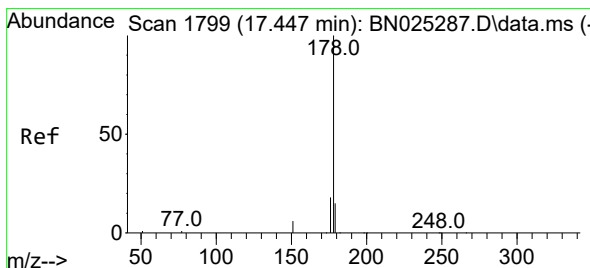
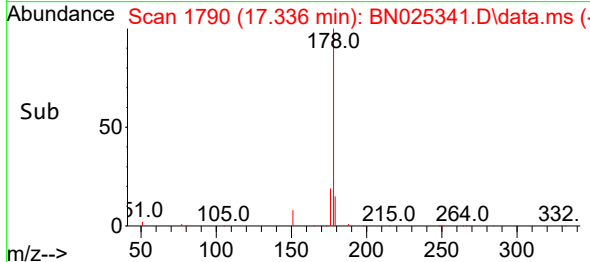
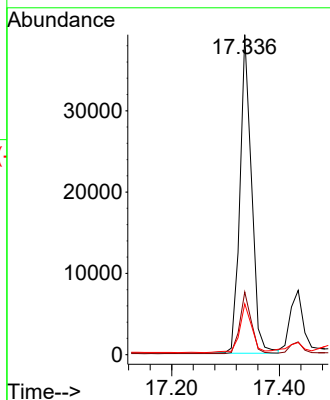
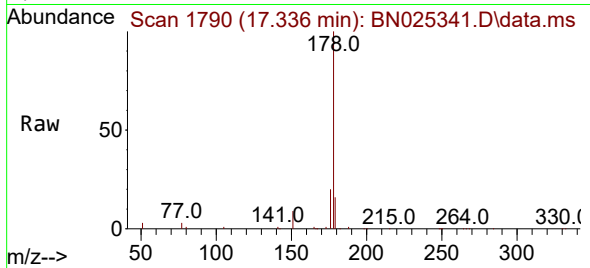




#25
Phenanthrene
Concen: 0.835 ng
RT: 17.336 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

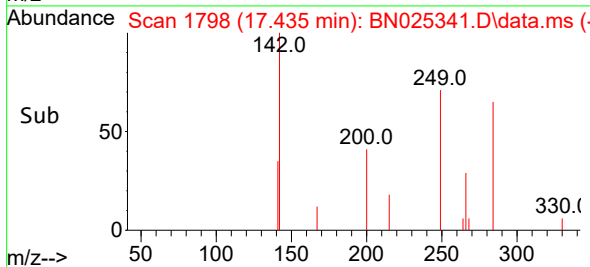
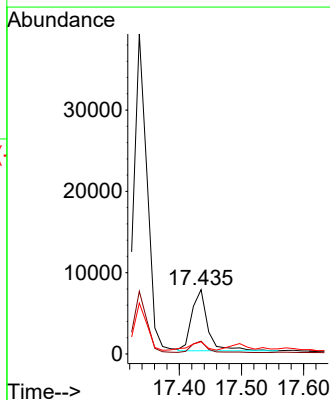
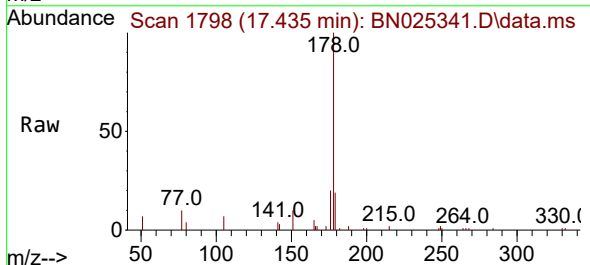
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

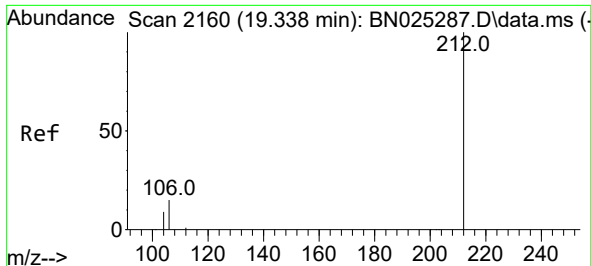
Tgt Ion:178 Resp: 58353
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.8 12.4 18.6



#26
Anthracene
Concen: 0.203 ng
RT: 17.435 min Scan# 1798
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:178 Resp: 13275
Ion Ratio Lower Upper
178 100
176 18.1 14.9 22.3
179 13.7 12.0 18.0

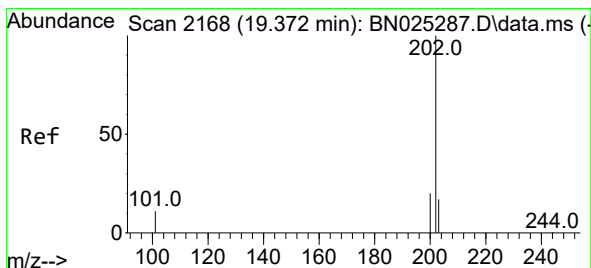
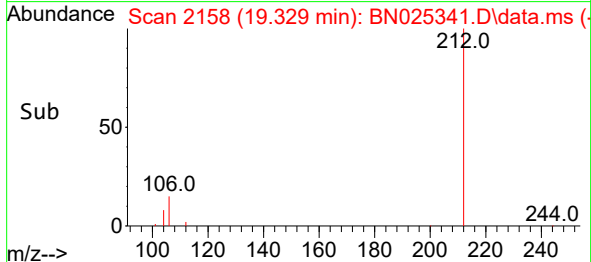
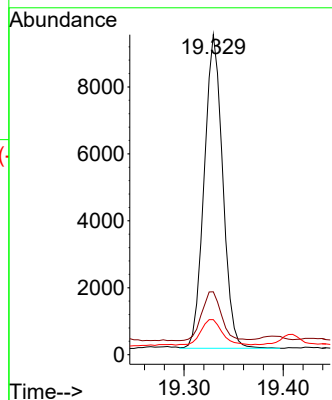
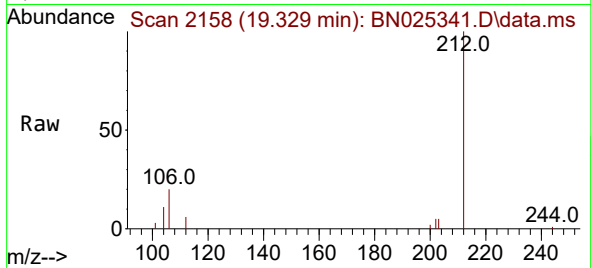




#27
Fluoranthene-d10
Concen: 0.195 ng
RT: 19.329 min Scan# 2158
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

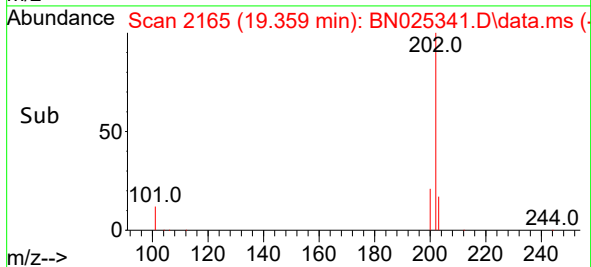
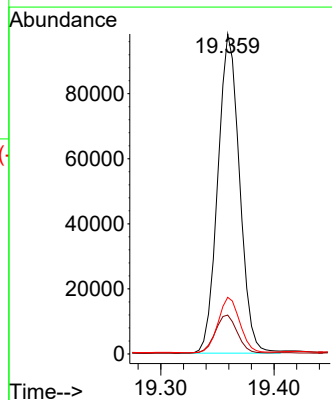
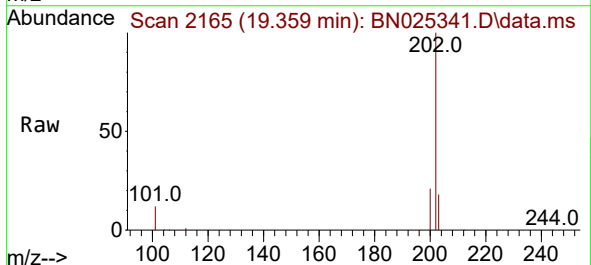
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

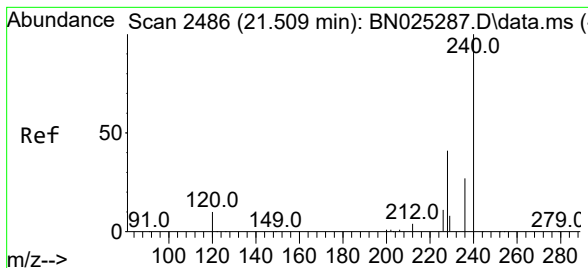
Tgt Ion:212 Resp: 12179
Ion Ratio Lower Upper
212 100
106 16.5 12.6 19.0
104 9.6 7.0 10.6



#28
Fluoranthene
Concen: 1.498 ng
RT: 19.359 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:202 Resp: 130868
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.495 min Scan# 2485

Delta R.T. -0.005 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

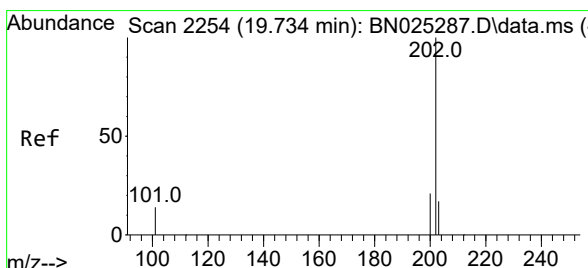
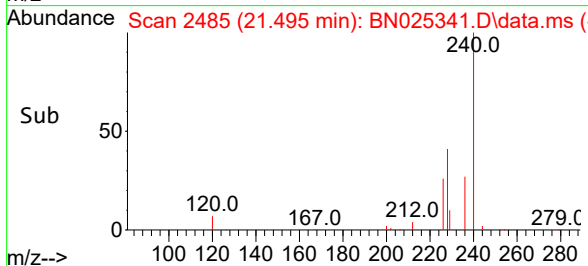
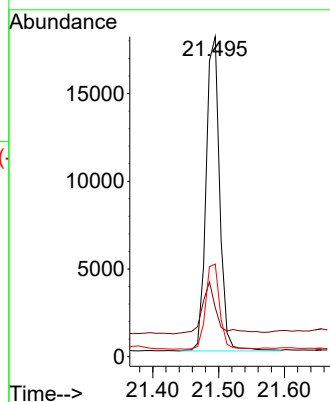
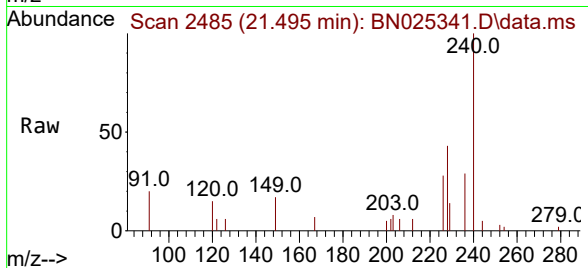
Tgt Ion:240 Resp: 25813

Ion Ratio Lower Upper

240 100

120 15.3 10.3 15.5

236 29.0 22.3 33.5



#30

Pyrene

Concen: 1.364 ng

RT: 19.722 min Scan# 2251

Delta R.T. -0.009 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

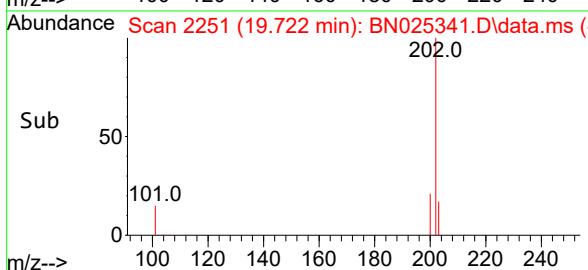
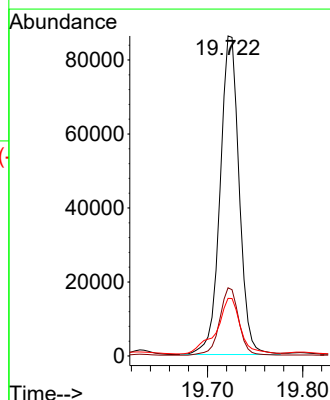
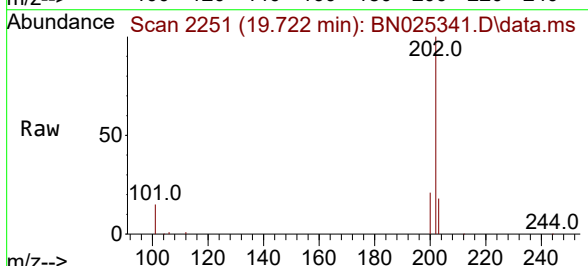
Tgt Ion:202 Resp: 120323

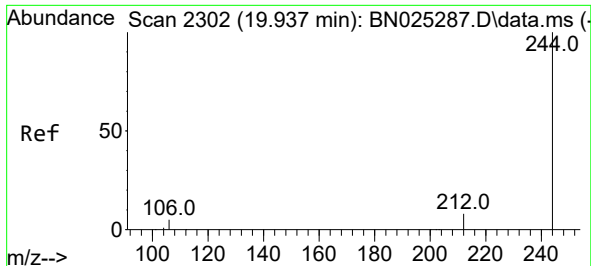
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 21.9 14.4 21.6#

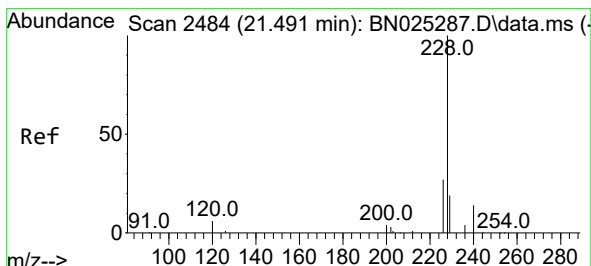
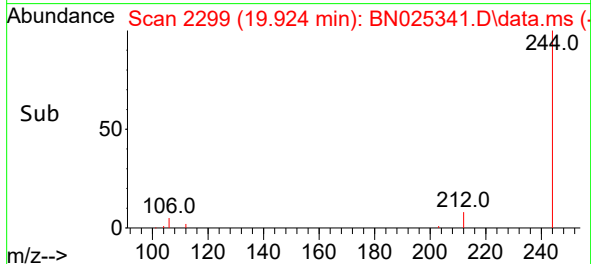
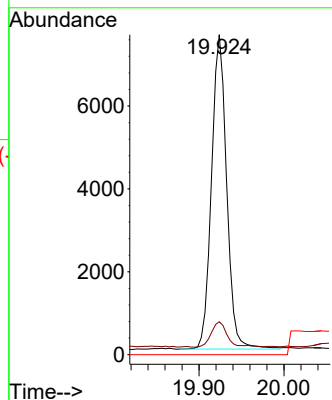
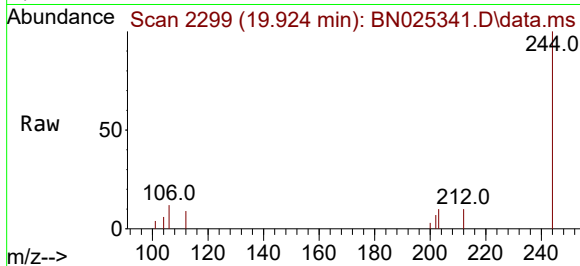




#31
 Terphenyl-d14
 Concen: 0.181 ng
 RT: 19.924 min Scan# 21
 Delta R.T. -0.004 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

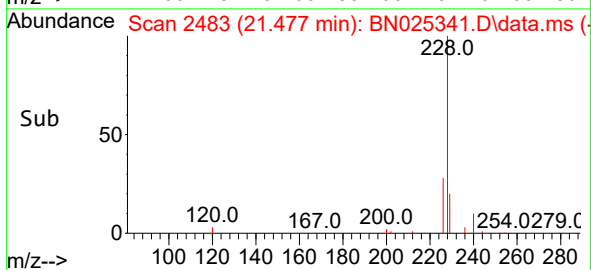
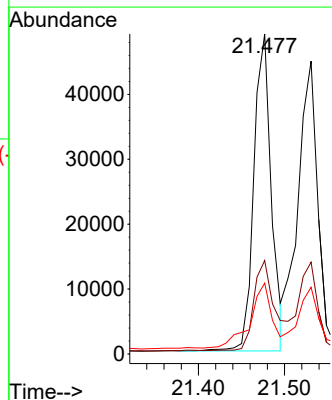
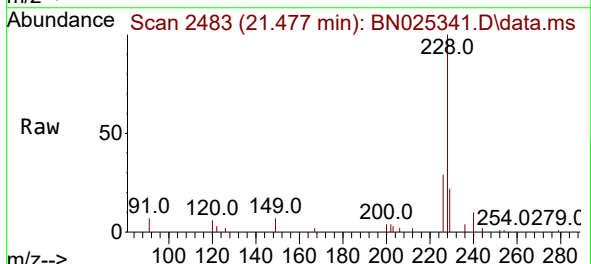
Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

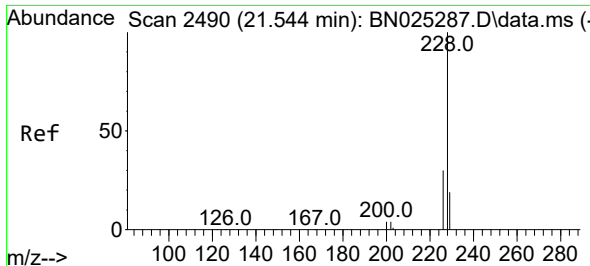
Tgt Ion:244 Resp: 9401
 Ion Ratio Lower Upper
 244 100
 212 10.3 7.1 10.7
 122 0.0 0.0 0.0



#32
 Benzo(a)anthracene
 Concen: 0.786 ng
 RT: 21.477 min Scan# 2483
 Delta R.T. -0.005 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

Tgt Ion:228 Resp: 68548
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.5 33.7
 229 22.2 16.2 24.2





#33

Chrysene

Concen: 0.825 ng

RT: 21.531 min Scan# 2489

Delta R.T. -0.005 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

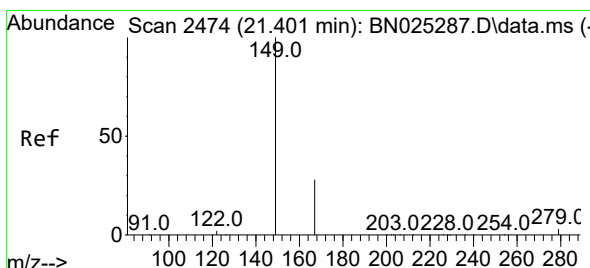
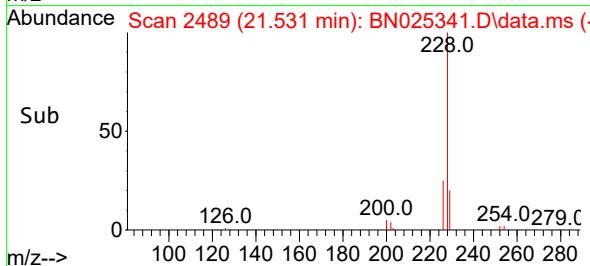
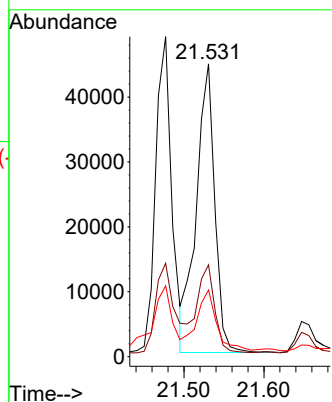
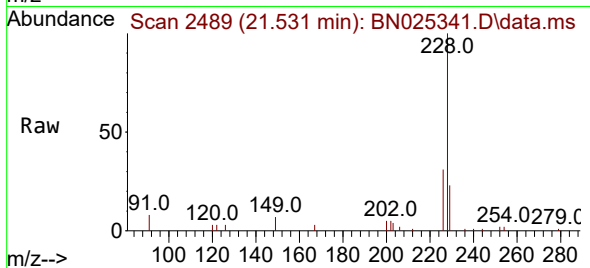
Tgt Ion:228 Resp: 71682

Ion Ratio Lower Upper

228 100

226 31.4 24.6 36.8

229 22.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.146 ng

RT: 21.387 min Scan# 2473

Delta R.T. -0.005 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

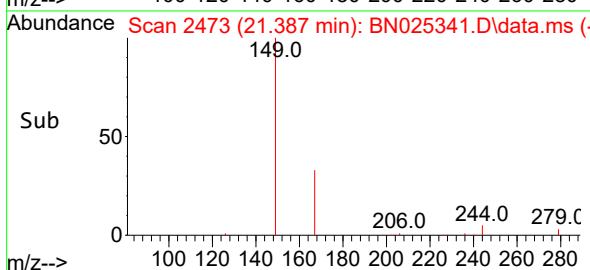
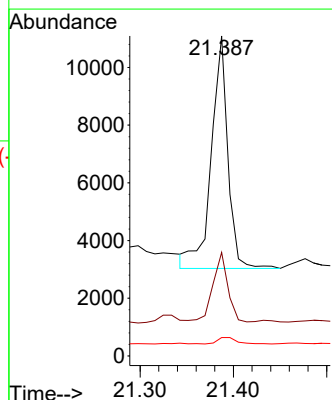
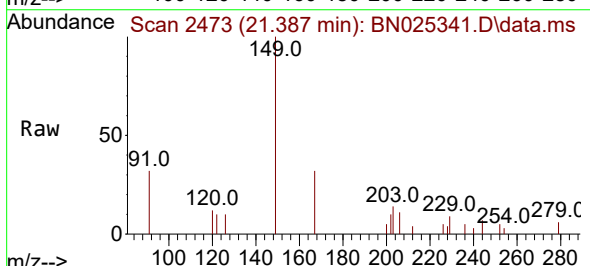
Tgt Ion:149 Resp: 9970

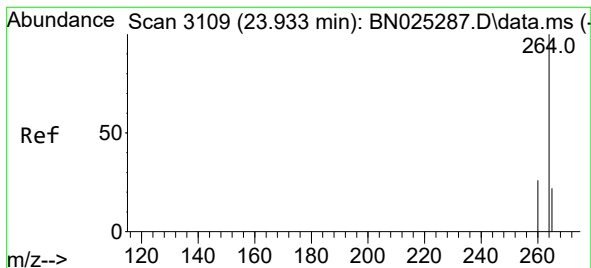
Ion Ratio Lower Upper

149 100

167 26.9 22.2 33.4

279 3.2 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.914 min Scan# 3109

Delta R.T. -0.016 min

Lab File: BN025341.D

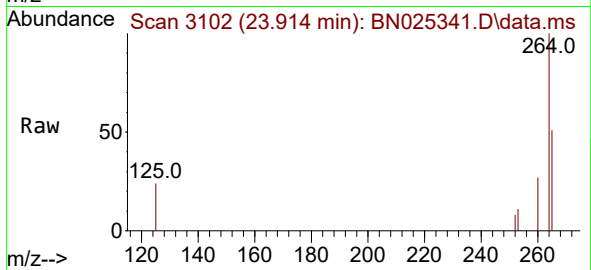
Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

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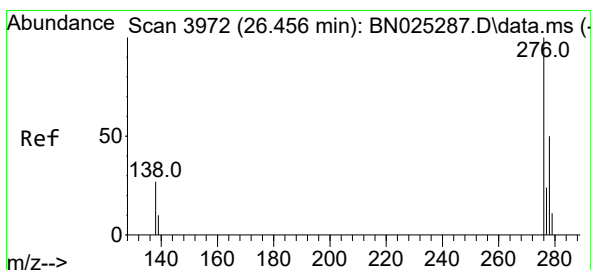
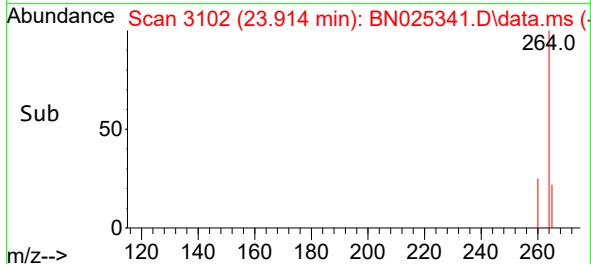
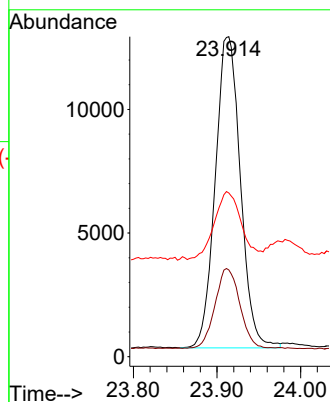
Tgt Ion:264 Resp: 26303

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 51.1 46.2 69.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.331 ng

RT: 26.426 min Scan# 3961

Delta R.T. -0.022 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

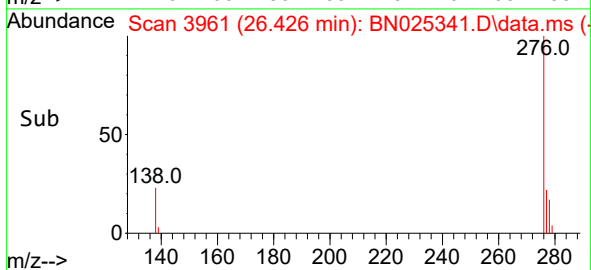
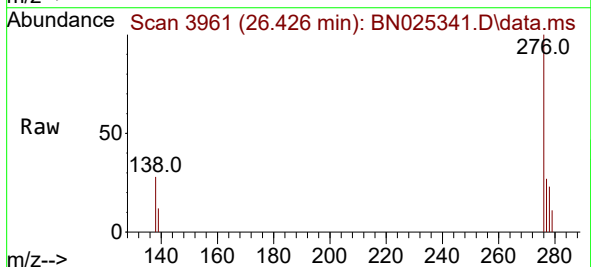
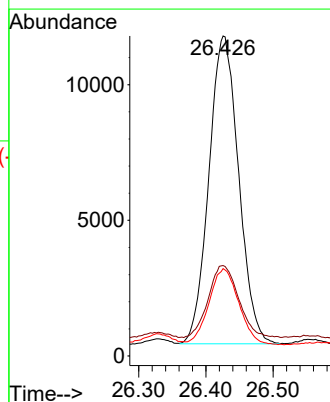
Tgt Ion:276 Resp: 34899

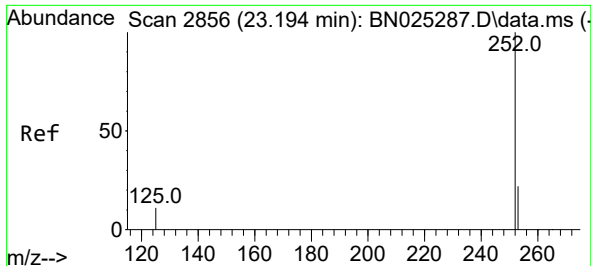
Ion Ratio Lower Upper

276 100

138 23.7 22.5 33.7

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.040 ng

RT: 23.177 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN025341.D

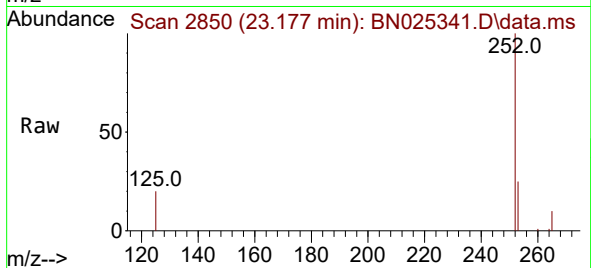
Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023



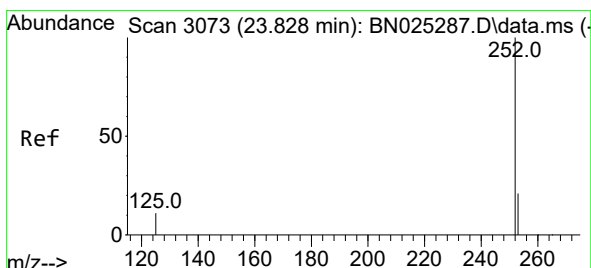
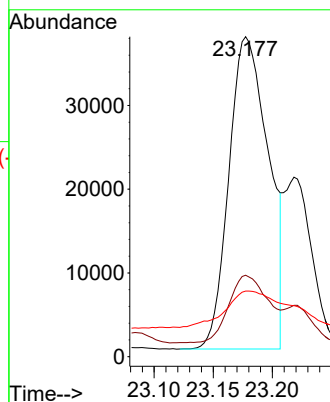
Tgt Ion:252 Resp: 86703

Ion Ratio Lower Upper

252 100

253 25.5 20.8 31.2

125 20.5 13.4 20.2#



#39

Benzo(a)pyrene

Concen: 0.720 ng

RT: 23.806 min Scan# 3065

Delta R.T. -0.016 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

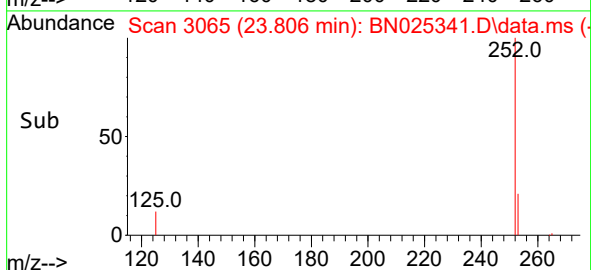
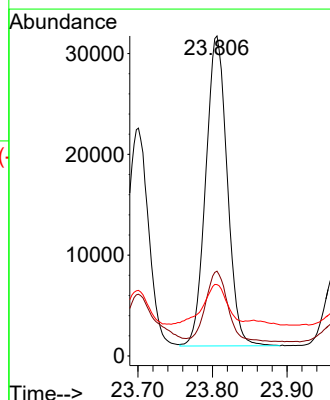
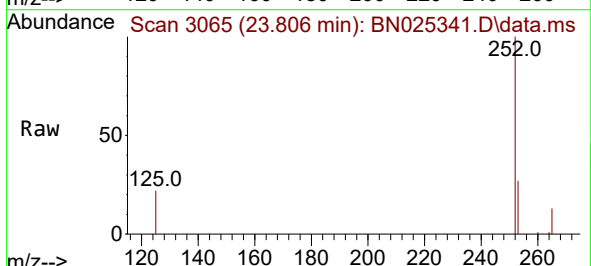
Tgt Ion:252 Resp: 61475

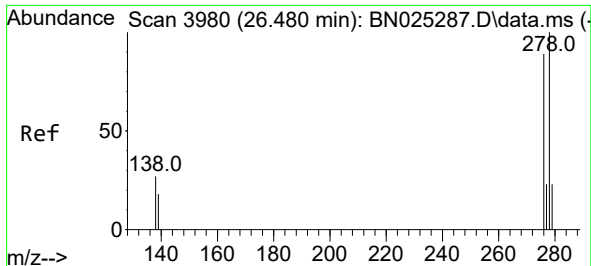
Ion Ratio Lower Upper

252 100

253 26.5 21.4 32.0

125 22.3 15.4 23.2

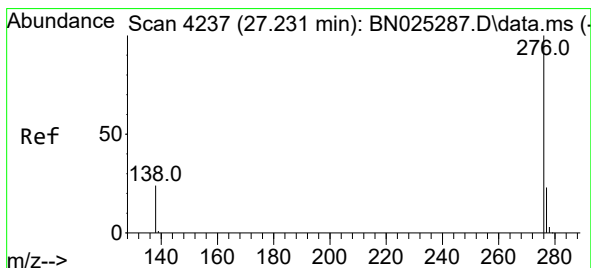
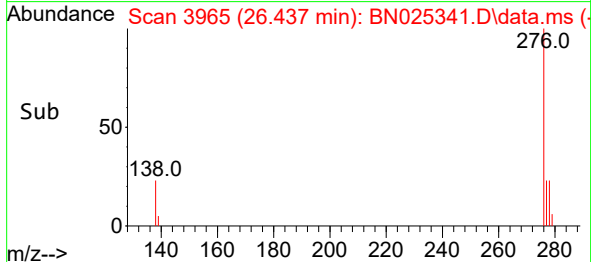
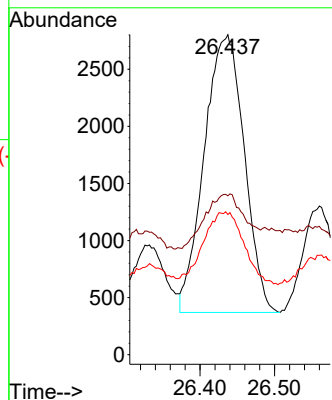
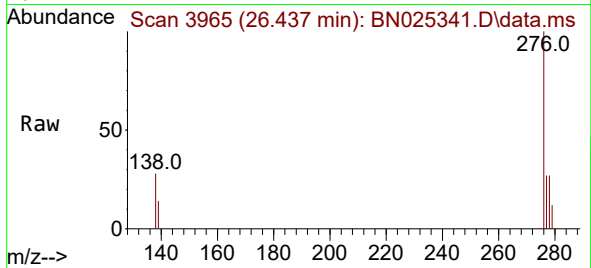




#40
Dibenzo(a,h)anthracene
Concen: 0.109 ng
RT: 26.437 min Scan# 3980
Delta R.T. -0.028 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

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

Tgt Ion:278 Resp: 9077
Ion Ratio Lower Upper
278 100
139 49.7 17.6 26.4#
279 43.8 21.6 32.4#



#41
Benzo(g,h,i)perylene
Concen: 0.370 ng
RT: 27.206 min Scan# 4228
Delta R.T. -0.022 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:276 Resp: 33824
Ion Ratio Lower Upper
276 100
277 26.6 20.1 30.1
138 28.8 21.0 31.6

