

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042322\
 Data File : BG053300.D
 Acq On : 23 Apr 2022 19:34
 Operator : CG/JU
 Sample : N2476-05 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PAT-03-041922

Quant Time: Apr 24 02:50:19 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG040822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Apr 24 01:13:30 2022
 Response via : Initial Calibration

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

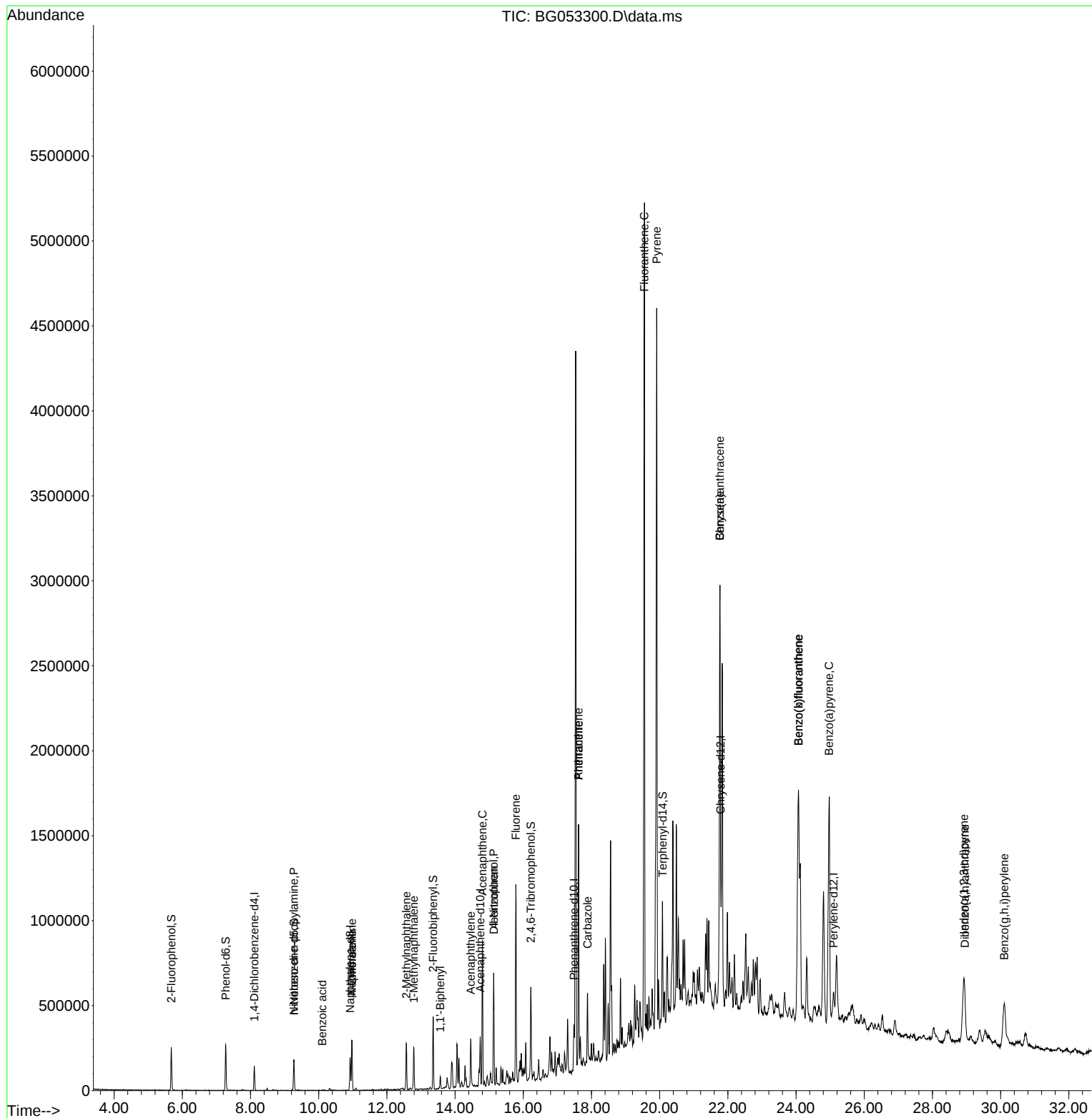
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.110	152	39982	20.000	ng	0.00
21) Naphthalene-d8	10.924	136	159947	20.000	ng	0.00
39) Acenaphthene-d10	14.736	164	102480	20.000	ng	0.00
64) Phenanthrene-d10	17.486	188	193846	20.000	ng	0.00
76) Chrysene-d12	21.786	240	178155	20.000	ng	0.02
86) Perylene-d12	25.105	264	181144	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.678	112	107930	46.274	ng	0.00
7) Phenol-d6	7.270	99	157290	43.730	ng	0.00
23) Nitrobenzene-d5	9.273	82	117526	29.835	ng	0.00
42) 2,4,6-Tribromophenol	16.223	330	62834	38.539	ng	0.00
45) 2-Fluorobiphenyl	13.356	172	229047	30.819	ng	0.00
79) Terphenyl-d14	20.088	244	280380	26.580	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.273	70	15930	6.049	ng	# 78
31) Naphthalene	10.971	128	248705	29.145	ng	100
32) Benzoic acid	10.102	122	178	3.739	ng	# 19
33) 4-Chloroaniline	10.977	127	34276	9.380	ng	# 36
37) 2-Methylnaphthalene	12.569	142	129286	20.475	ng	96
38) 1-Methylnaphthalene	12.792	142	115529	18.744	ng	# 96
46) 1,1'-Biphenyl	13.567	154	33351	4.519	ng	95
49) Acenaphthylene	14.460	152	205472	22.293	ng	97
52) Acenaphthene	14.801	154	303834	48.610	ng	94
55) Dibenzofuran	15.136	168	395400	40.400	ng	96
56) 4-Nitrophenol	15.130	139	158816	115.165	ng	# 3
58) Fluorene	15.782	166	542203	68.592	ng	99
71) Phenanthrene	17.621	178	931581	87.983	ng	99
72) Anthracene	17.621	178	931581	88.809	ng	99
73) Carbazole	17.885	167	261947	25.690	ng	98
75) Fluoranthene	19.554	202	3392221	249.937	ng	89
78) Pyrene	19.912	202	3129796	246.670	ng	# 90
81) Benzo(a)anthracene	21.768	228	1698527	139.441	ng	# 90
83) Chrysene	21.768	228	1698527	150.248	ng	94
87) Indeno(1,2,3-cd)pyrene	28.923	276	858015	63.755	ng	93
88) Benzo(b)fluoranthene	24.071	252	2181812	190.899	ng	94
89) Benzo(k)fluoranthene	24.071	252	2181812	194.237	ng	95
90) Benzo(a)pyrene	24.970	252	1716583	176.302	ng	97
91) Dibenzo(a,h)anthracene	28.953	278	205992	18.597	ng	# 91
92) Benzo(g,h,i)perylene	30.104	276	706802	64.740	ng	97

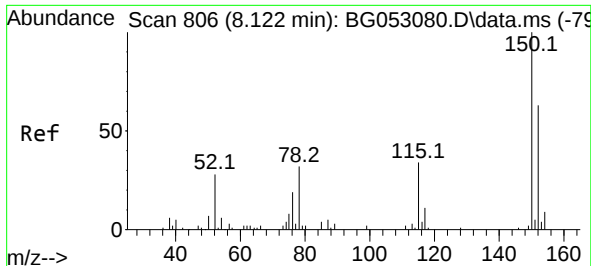
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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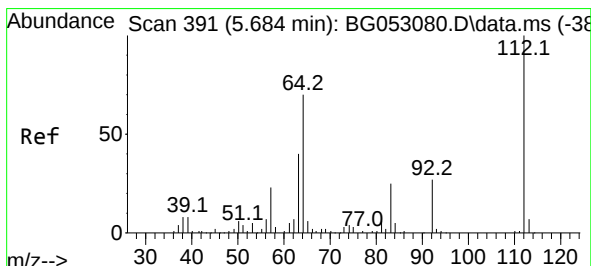
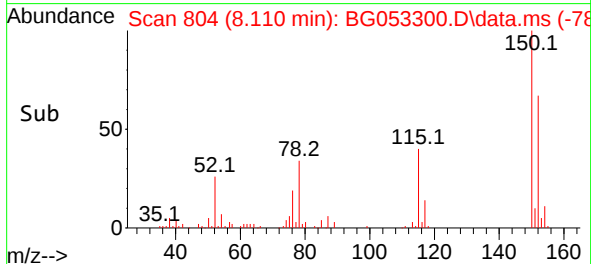
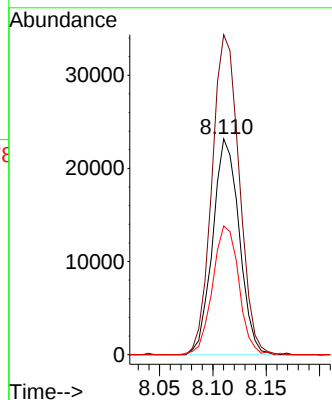
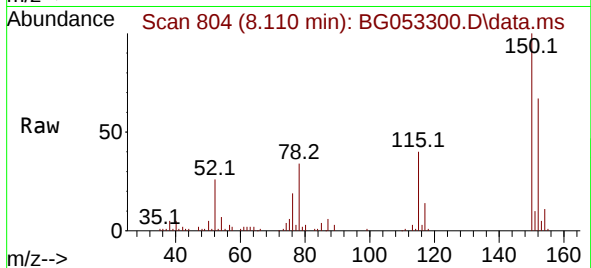




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.110 min Scan# 804
Delta R.T. -0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

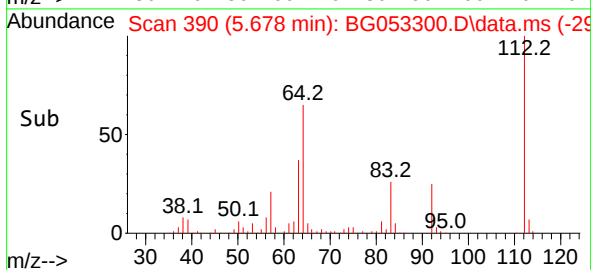
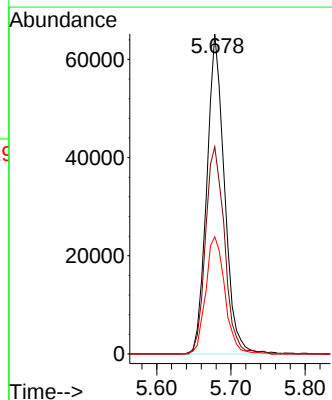
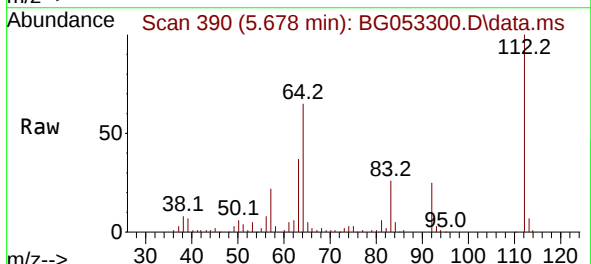
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

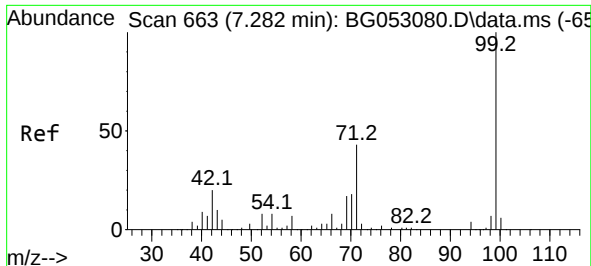
Tgt Ion:152 Resp: 39982
Ion Ratio Lower Upper
152 100
150 148.2 114.6 172.0
115 59.7 45.9 68.9



#5
2-Fluorophenol
Concen: 46.274 ng
RT: 5.678 min Scan# 390
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:112 Resp: 107930
Ion Ratio Lower Upper
112 100
64 64.8 48.0 72.0
63 36.6 26.5 39.7

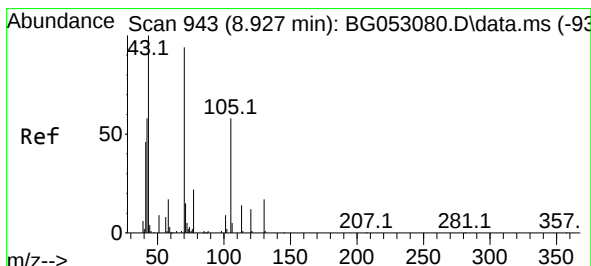
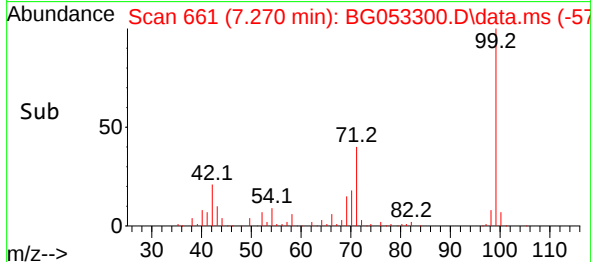
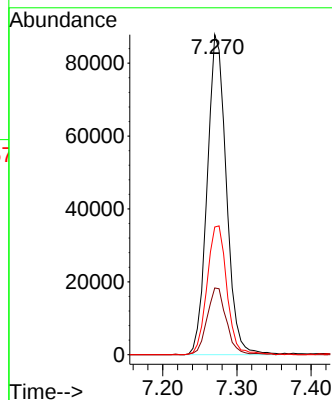
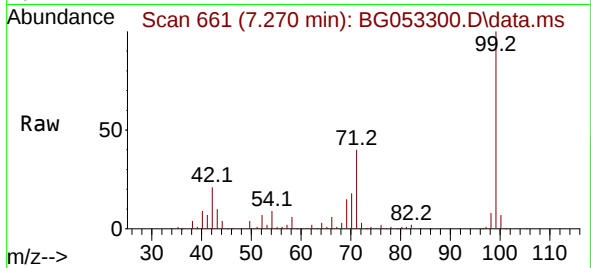




#7
Phenol-d6
Concen: 43.730 ng
RT: 7.270 min Scan# 60
Delta R.T. -0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

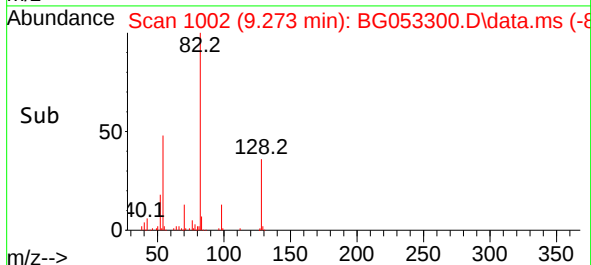
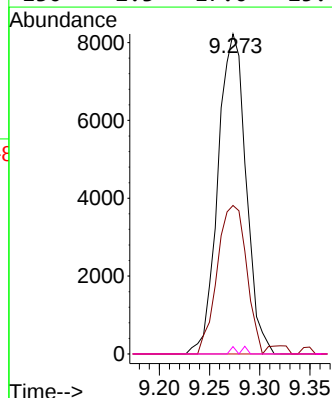
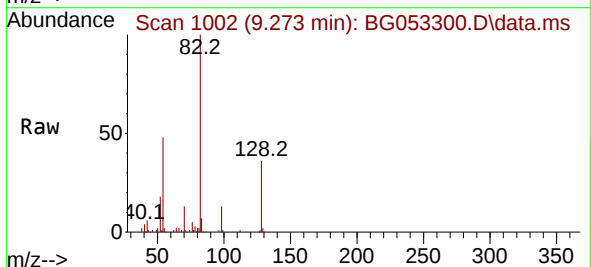
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

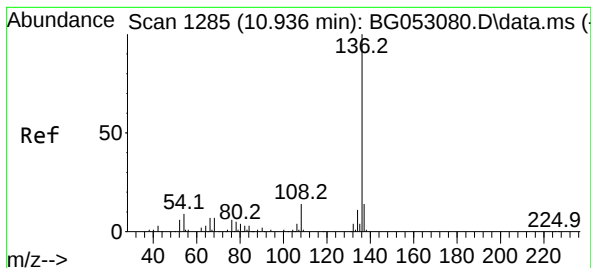
Tgt Ion: 99 Resp: 157290
Ion Ratio Lower Upper
99 100
42 20.9 14.7 22.1
71 39.9 29.2 43.8



#19
n-Nitroso-di-n-propylamine
Concen: 6.049 ng
RT: 9.273 min Scan# 1002
Delta R.T. 0.361 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion: 70 Resp: 15930
Ion Ratio Lower Upper
70 100
42 46.4 46.0 69.0
101 0.0 6.2 9.4#
130 2.3 17.0 25.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.924 min Scan# 1002

Delta R.T. 0.003 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

Instrument :

BNA_G

ClientSampleId :

PAT-03-041922

Tgt Ion:136 Resp: 159947

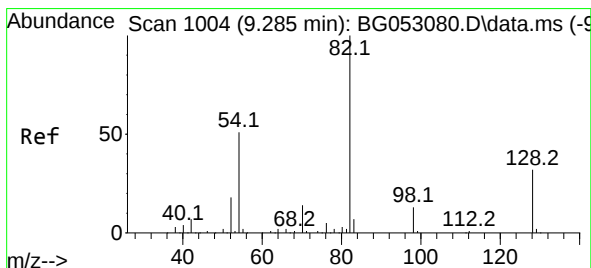
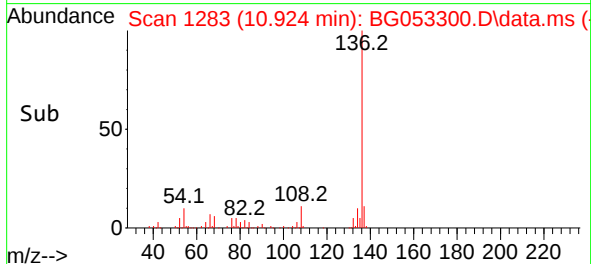
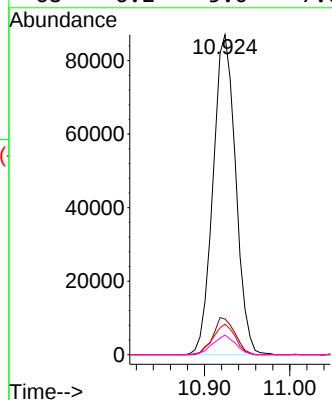
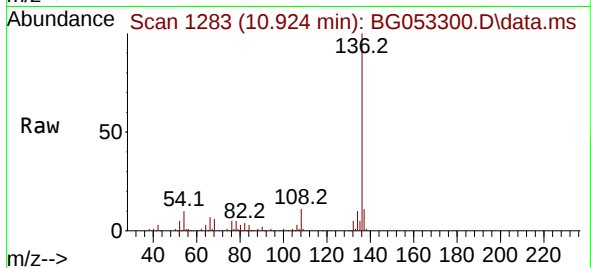
Ion Ratio Lower Upper

136 100

137 11.1 9.4 14.2

54 9.5 6.4 9.6

68 6.2 5.0 7.6



#23

Nitrobenzene-d5

Concen: 29.835 ng

RT: 9.273 min Scan# 1002

Delta R.T. -0.003 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

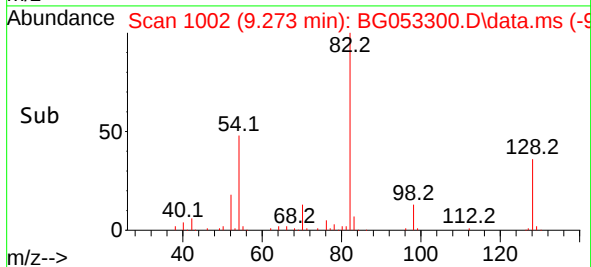
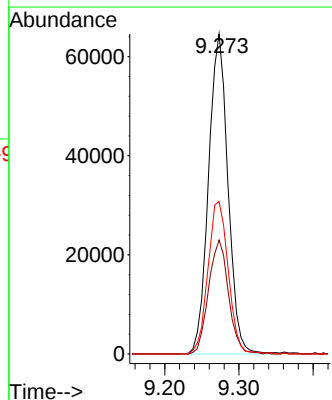
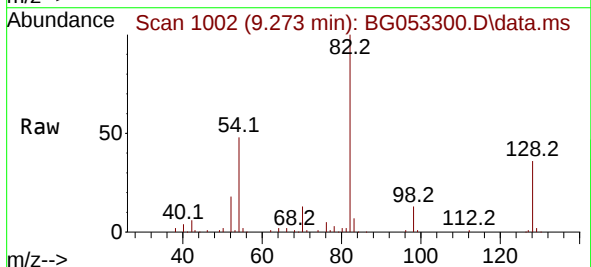
Tgt Ion: 82 Resp: 117526

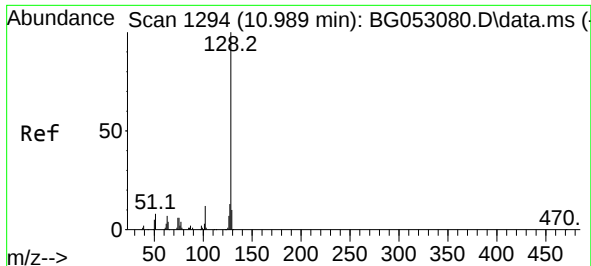
Ion Ratio Lower Upper

82 100

128 35.6 31.3 46.9

54 47.7 37.8 56.8

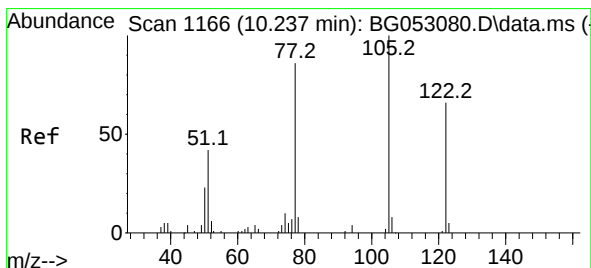
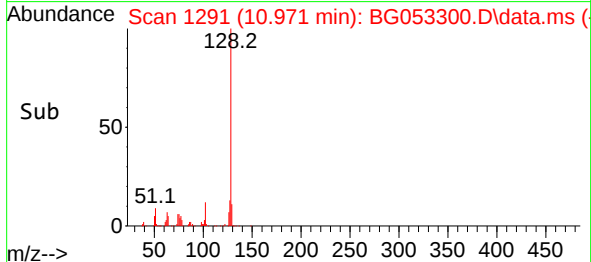
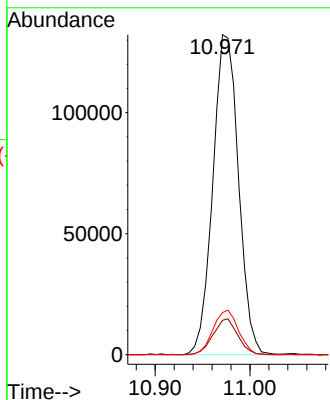
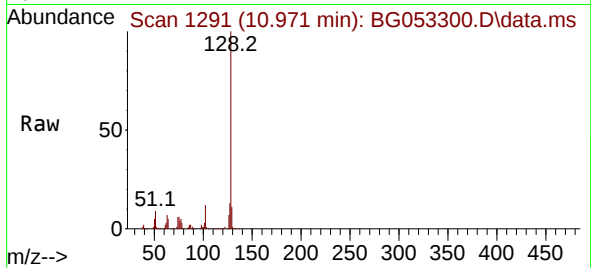




#31
Naphthalene
Concen: 29.145 ng
RT: 10.971 min Scan# 1143
Delta R.T. -0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

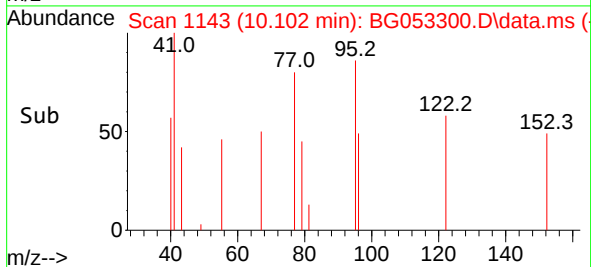
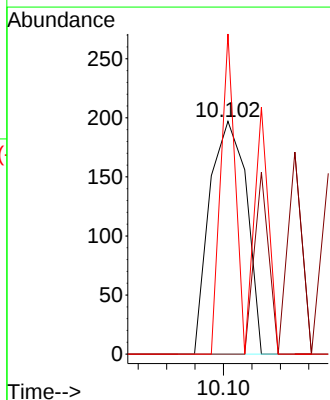
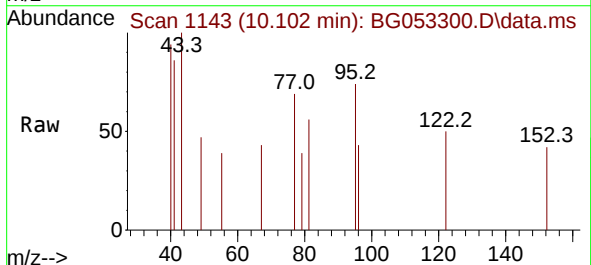
Instrument :
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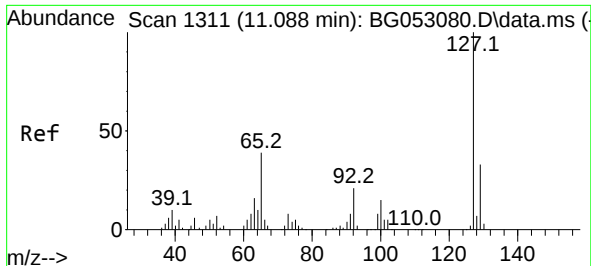
Tgt Ion:128 Resp: 248705
Ion Ratio Lower Upper
128 100
129 10.7 8.8 13.2
127 13.2 10.5 15.7



#32
Benzoic acid
Concen: 3.739 ng
RT: 10.102 min Scan# 1143
Delta R.T. -0.133 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:122 Resp: 178
Ion Ratio Lower Upper
122 100
105 0.0 112.8 152.8#
77 137.6 78.4 118.4#

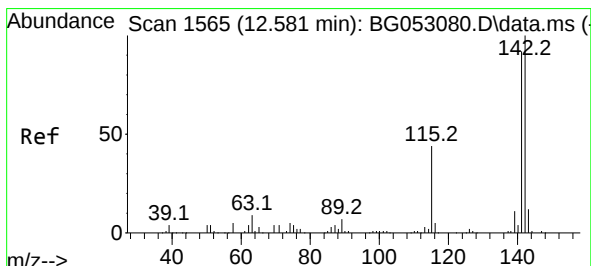
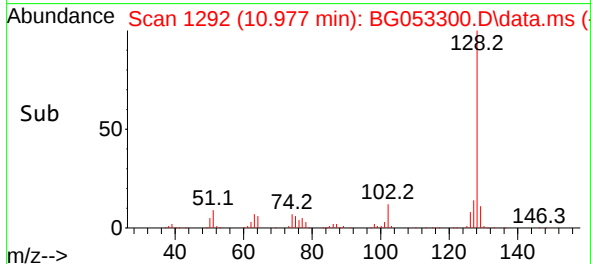
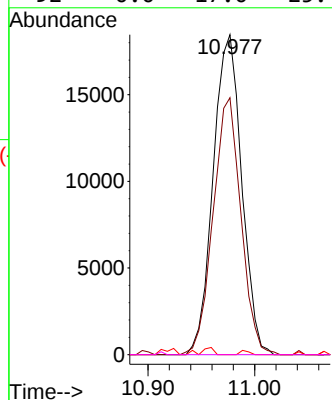
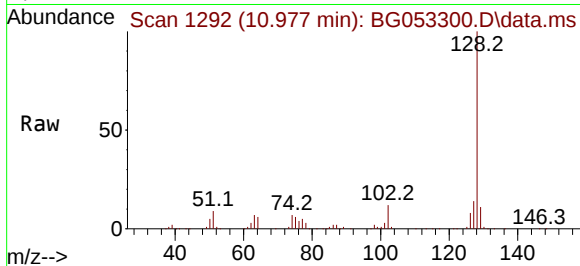




#33
4-Chloroaniline
Concen: 9.380 ng
RT: 10.977 min Scan# 11
Delta R.T. -0.097 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

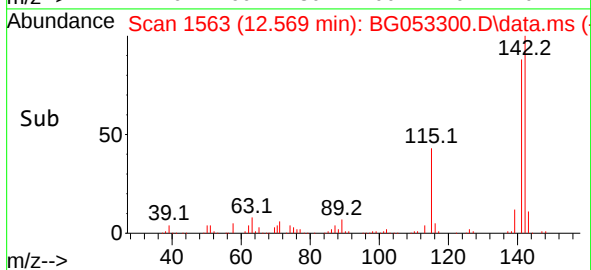
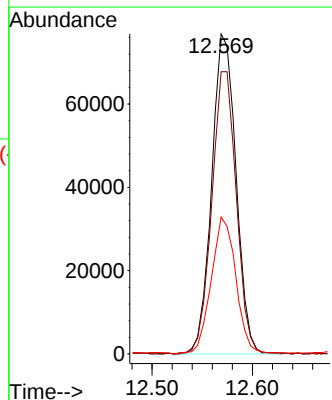
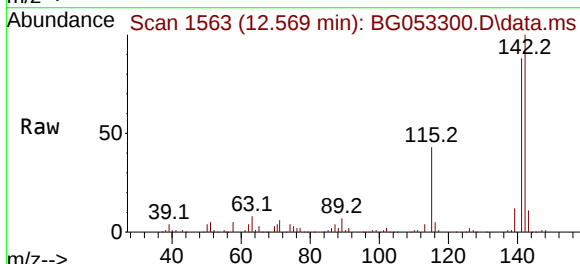
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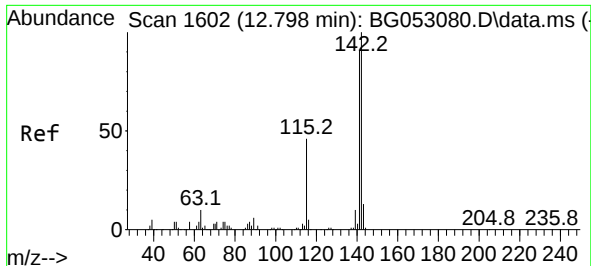
Tgt Ion:	127	Resp:	34276
Ion	Ratio	Lower	Upper
127	100		
129	80.3	27.6	41.4#
65	0.0	28.2	42.4#
92	0.0	17.0	25.4#



#37
2-Methylnaphthalene
Concen: 20.475 ng
RT: 12.569 min Scan# 1563
Delta R.T. -0.003 min
Lab File: BG053300.D
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Tgt Ion:	142	Resp:	129286
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.3	106.9
115	42.8	29.5	44.3

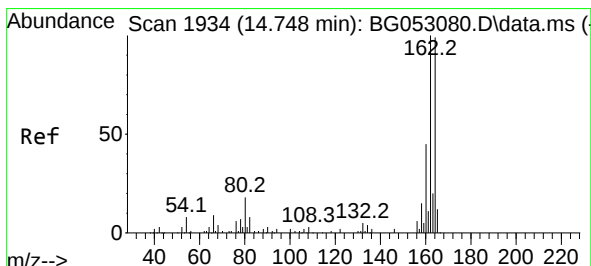
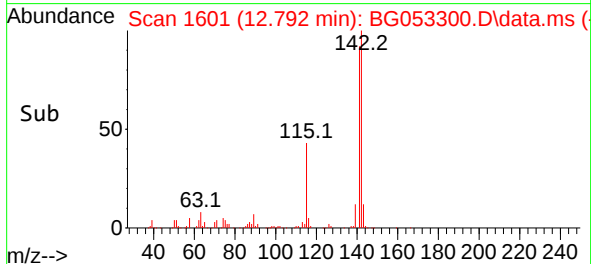
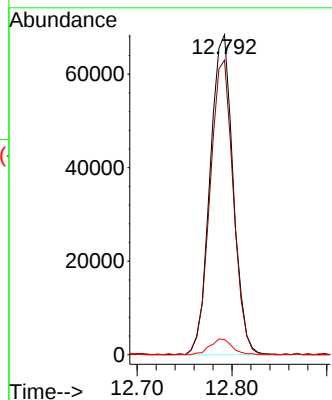
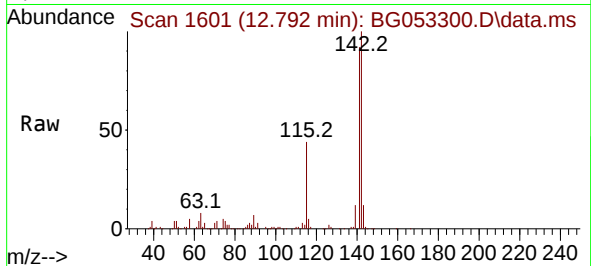




#38
1-Methylnaphthalene
Concen: 18.744 ng
RT: 12.792 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

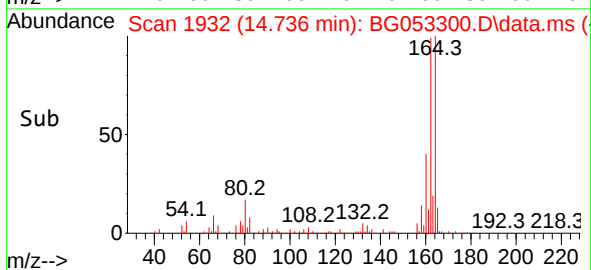
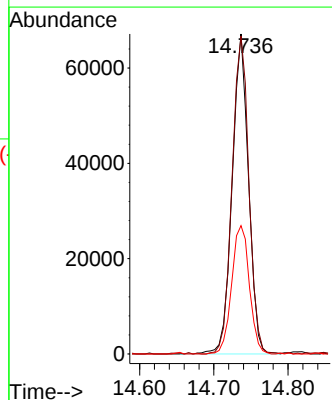
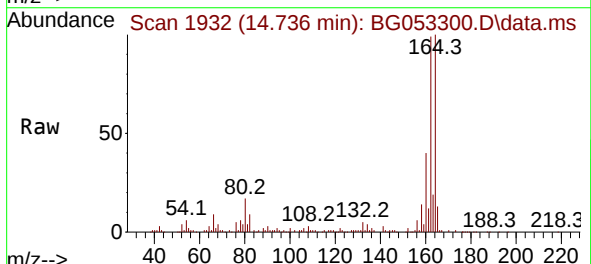
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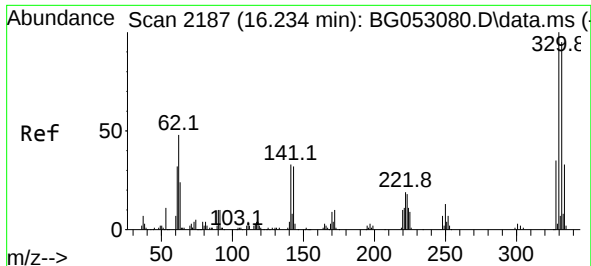
Tgt Ion:142 Resp: 115529
Ion Ratio Lower Upper
142 100
141 92.1 70.5 105.7
116 4.8 3.1 4.7#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.736 min Scan# 1932
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:164 Resp: 102480
Ion Ratio Lower Upper
164 100
162 99.4 80.0 120.0
160 40.1 38.8 58.2





#42

2,4,6-Tribromophenol

Concen: 38.539 ng

RT: 16.223 min Scan# 2187

Delta R.T. -0.003 min

Lab File: BG053300.D

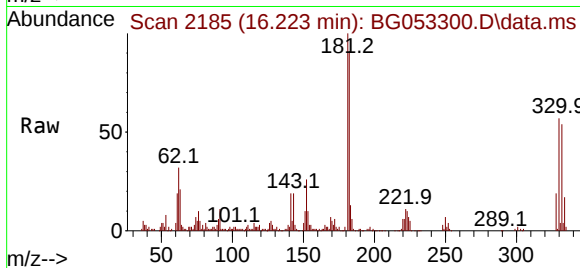
Acq: 23 Apr 2022 19:34

Instrument :

BNA_G

ClientSampleId :

PAT-03-041922



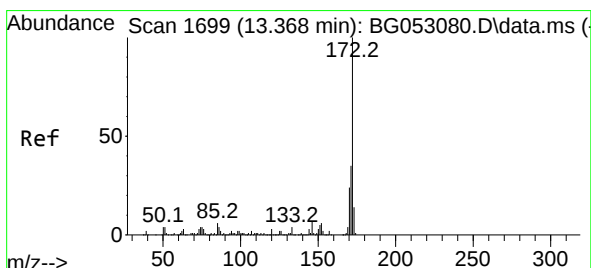
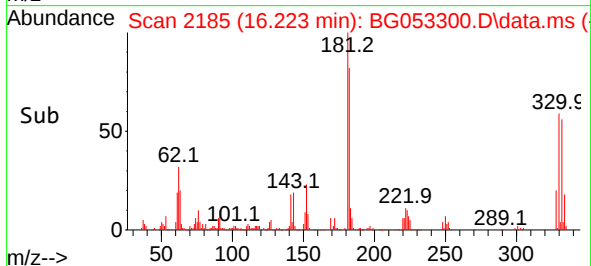
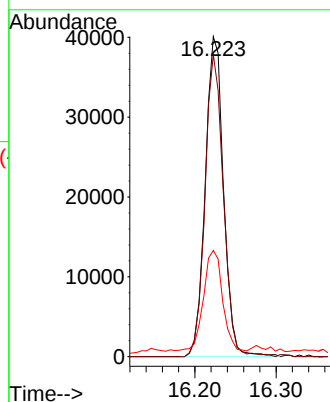
Tgt Ion:330 Resp: 62834

Ion Ratio Lower Upper

330 100

332 94.5 75.8 113.6

141 34.8 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 30.819 ng

RT: 13.356 min Scan# 1697

Delta R.T. -0.003 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

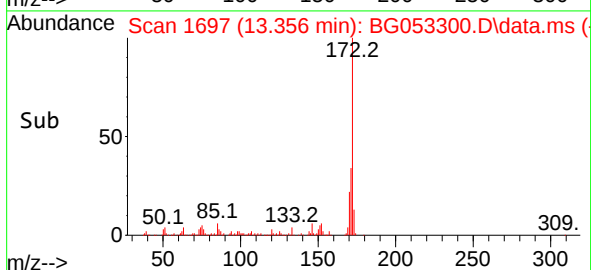
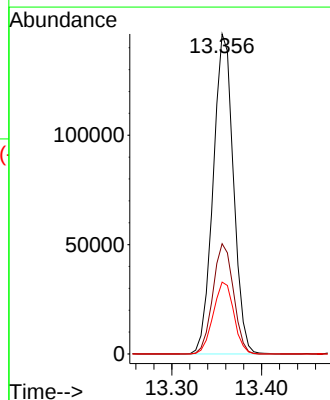
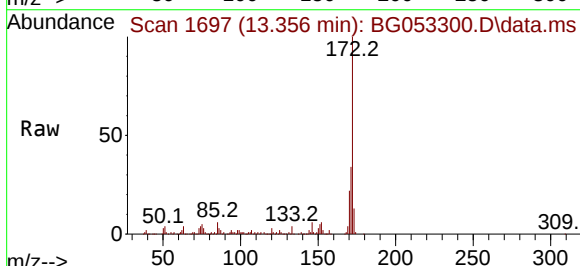
Tgt Ion:172 Resp: 229047

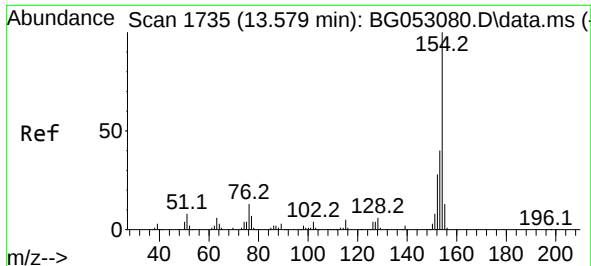
Ion Ratio Lower Upper

172 100

171 34.5 28.3 42.5

170 22.5 18.0 27.0

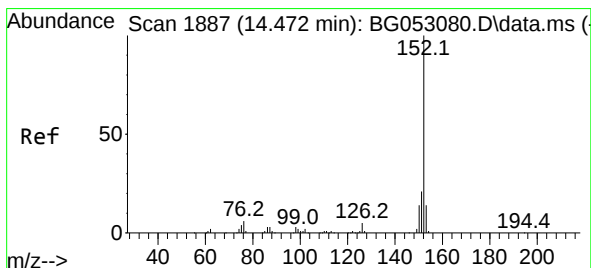
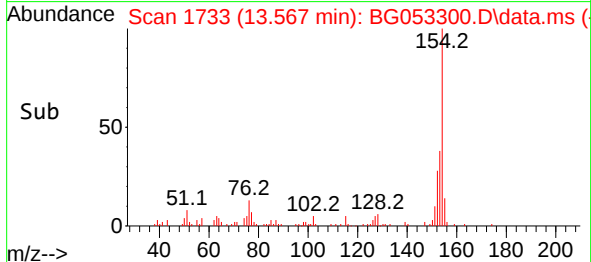
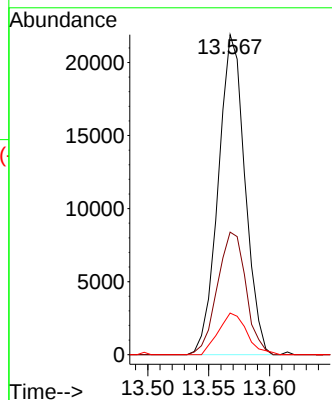
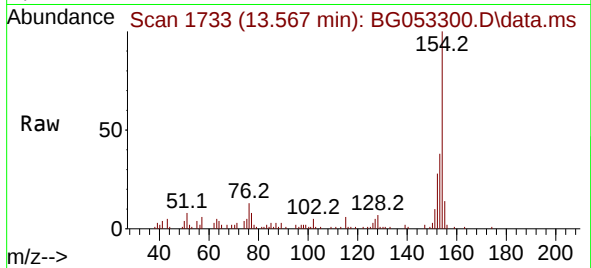




#46
1,1'-Biphenyl
Concen: 4.519 ng
RT: 13.567 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

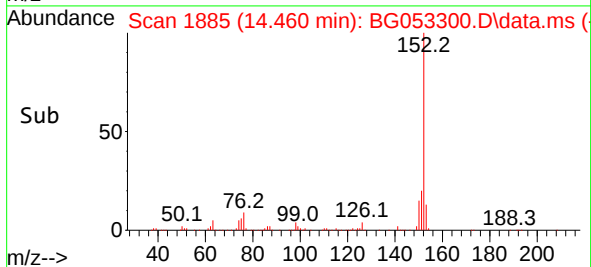
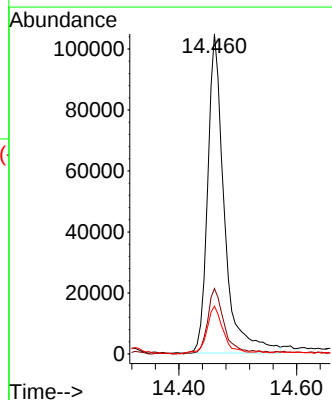
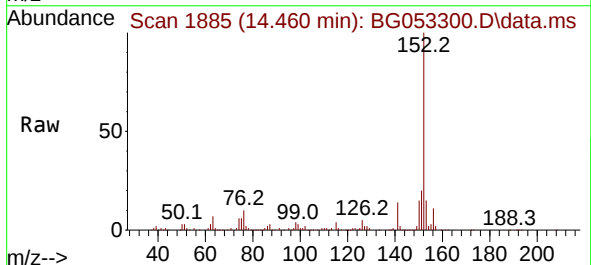
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

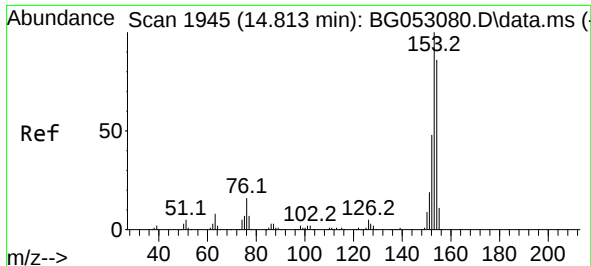
Tgt Ion:154 Resp: 33351
Ion Ratio Lower Upper
154 100
153 38.3 21.6 61.6
76 13.0 0.0 31.5



#49
Acenaphthylene
Concen: 22.293 ng
RT: 14.460 min Scan# 1885
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:152 Resp: 205472
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.6
153 15.0 10.6 15.8

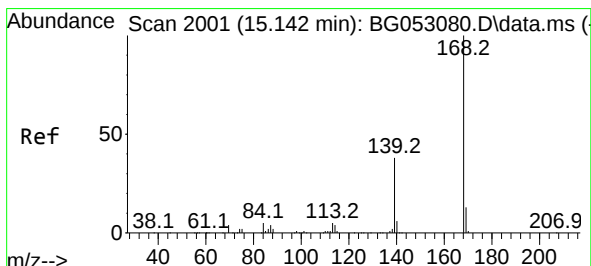
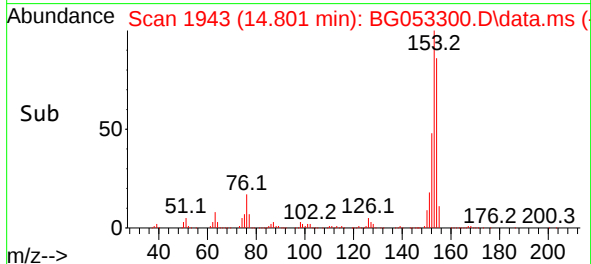
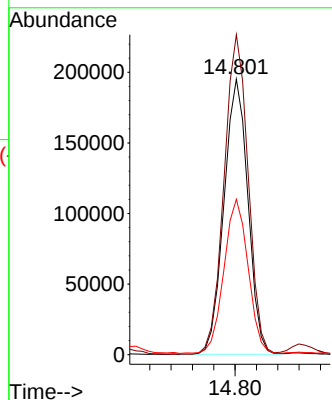
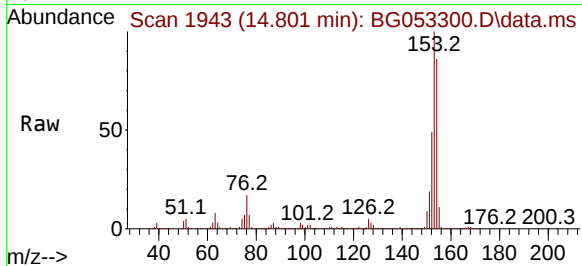




#52
Acenaphthene
Concen: 48.610 ng
RT: 14.801 min Scan# 14
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

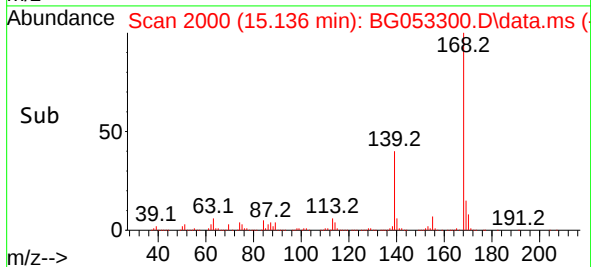
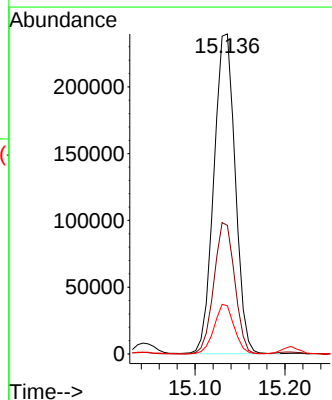
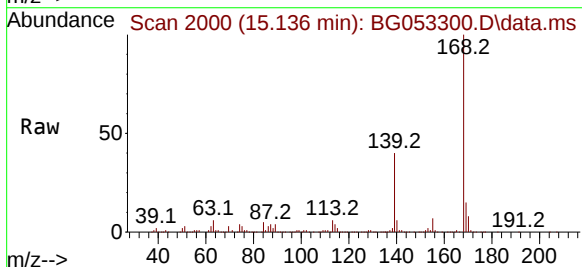
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

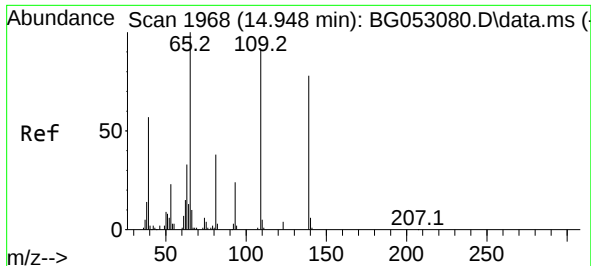
Tgt Ion:154 Resp: 303834
Ion Ratio Lower Upper
154 100
153 116.2 89.0 133.4
152 56.4 40.5 60.7



#55
Dibenzofuran
Concen: 40.400 ng
RT: 15.136 min Scan# 2000
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:168 Resp: 395400
Ion Ratio Lower Upper
168 100
139 40.2 30.2 45.4
169 15.1 10.7 16.1

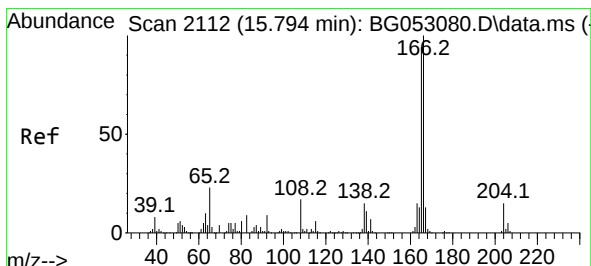
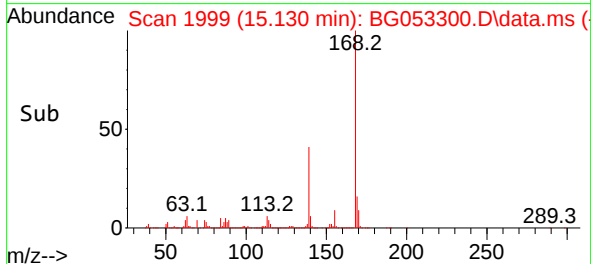
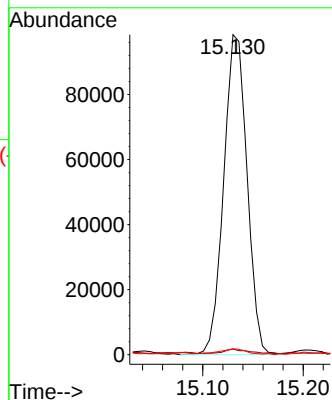
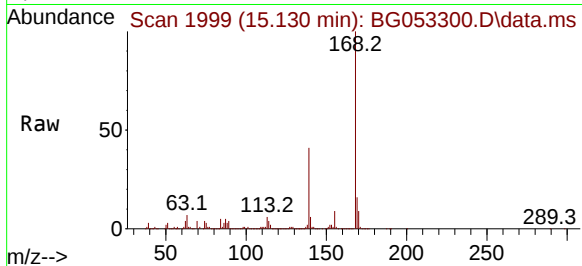




#56
4-Nitrophenol
Concen: 115.165 ng
RT: 15.130 min Scan# 1968
Delta R.T. 0.185 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

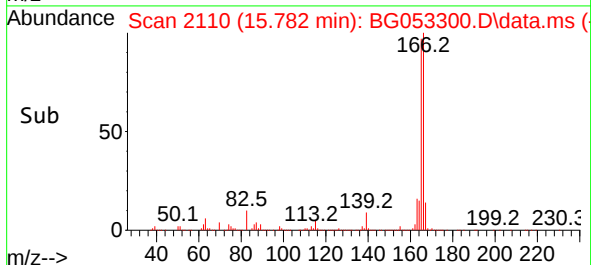
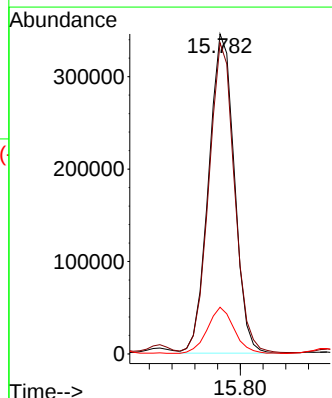
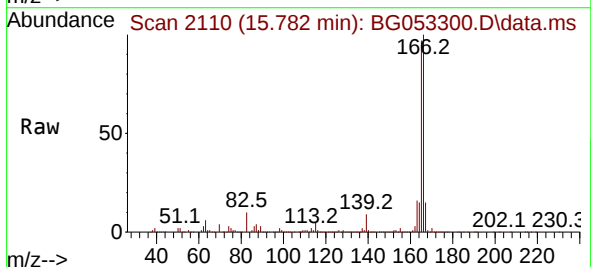
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

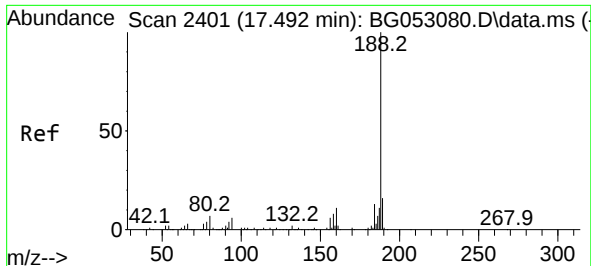
Tgt Ion:139 Resp: 158816
Ion Ratio Lower Upper
139 100
109 1.8 67.1 107.1#
65 1.8 88.2 128.2#



#58
Fluorene
Concen: 68.592 ng
RT: 15.782 min Scan# 2110
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:166 Resp: 542203
Ion Ratio Lower Upper
166 100
165 97.3 78.6 117.8
167 14.6 10.9 16.3

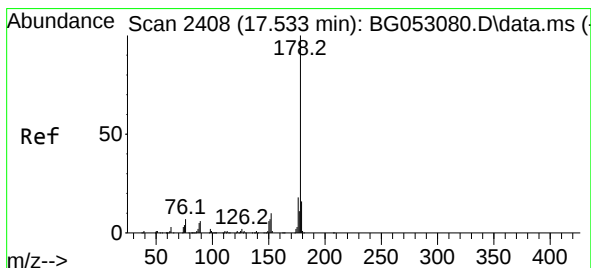
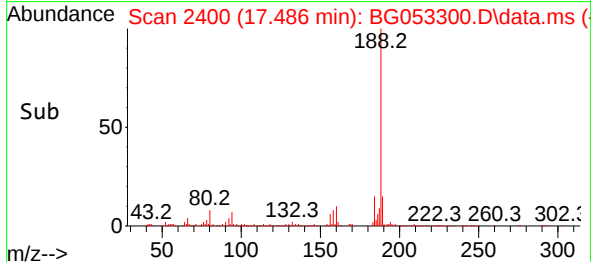
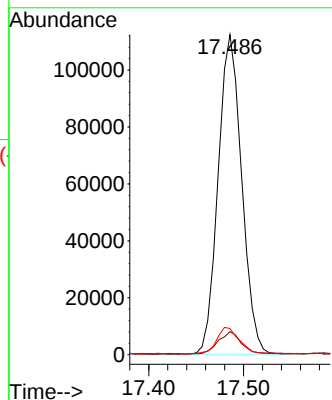
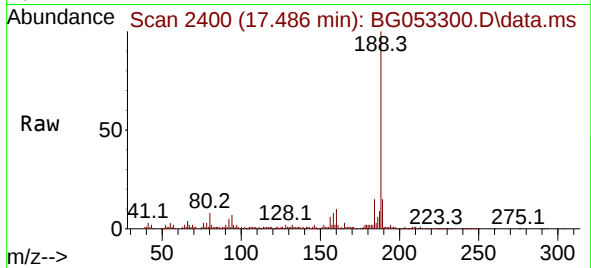




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.486 min Scan# 2401
Delta R.T. 0.003 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

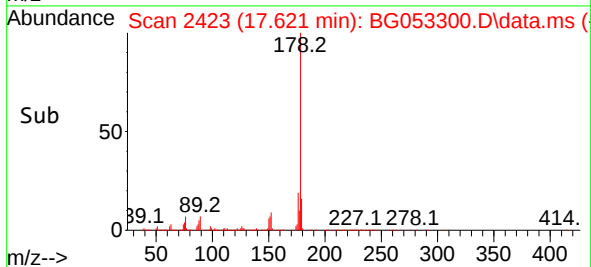
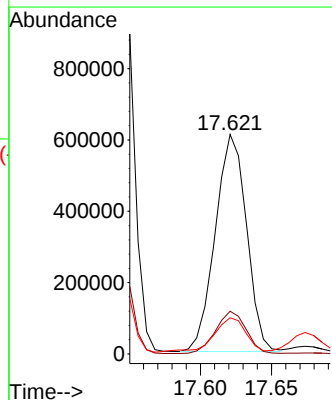
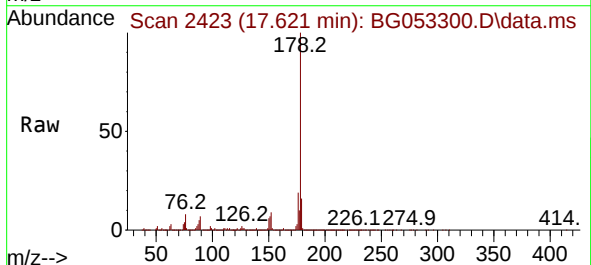
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

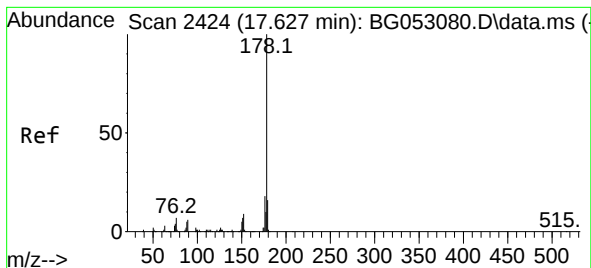
Tgt Ion:188 Resp: 193846
Ion Ratio Lower Upper
188 100
94 7.2 5.7 8.5
80 8.1 7.2 10.8



#71
Phenanthrene
Concen: 87.983 ng
RT: 17.621 min Scan# 2423
Delta R.T. 0.097 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:178 Resp: 931581
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 16.4 13.4 20.2





#72

Anthracene

Concen: 88.809 ng

RT: 17.621 min Scan# 24

Delta R.T. 0.008 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

Instrument :

BNA_G

ClientSampleId :

PAT-03-041922

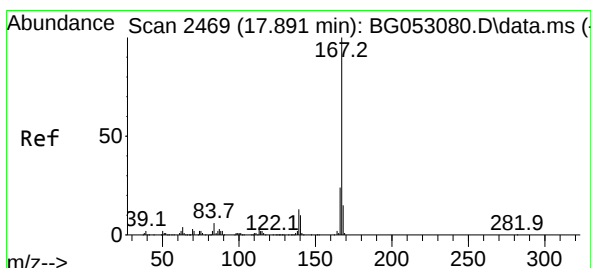
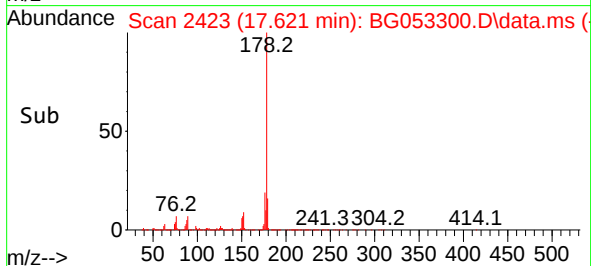
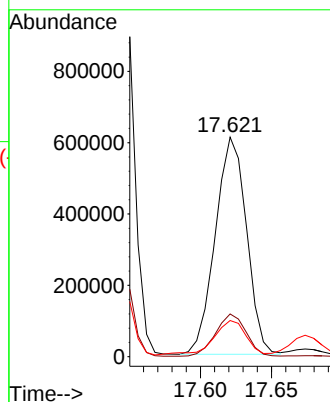
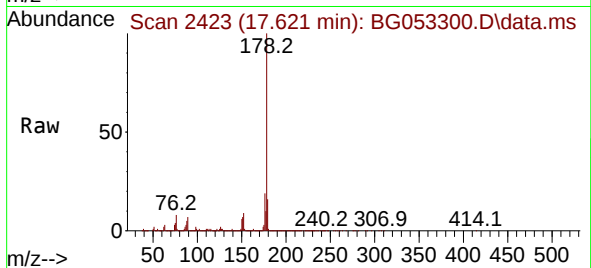
Tgt Ion:178 Resp: 931581

Ion Ratio Lower Upper

178 100

176 19.5 14.7 22.1

179 16.4 13.2 19.8



#73

Carbazole

Concen: 25.690 ng

RT: 17.885 min Scan# 2468

Delta R.T. 0.003 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

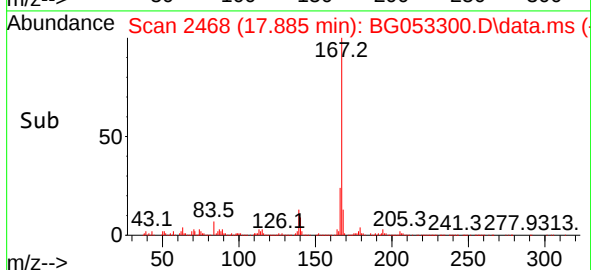
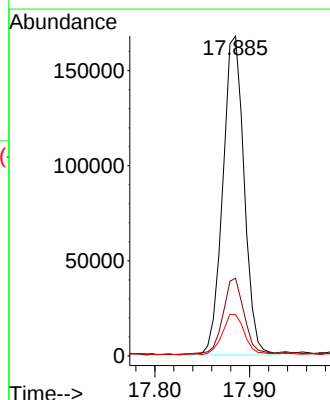
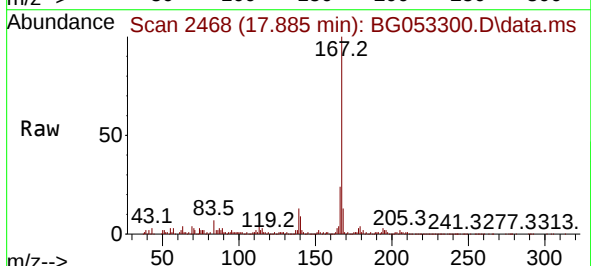
Tgt Ion:167 Resp: 261947

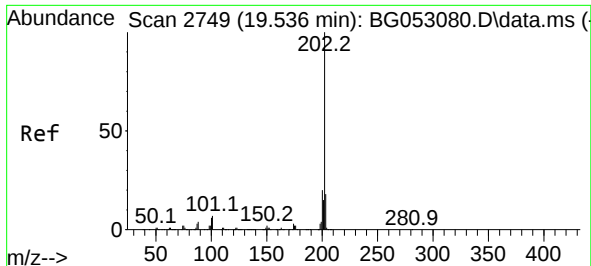
Ion Ratio Lower Upper

167 100

166 24.3 18.5 27.7

139 12.9 10.0 15.0

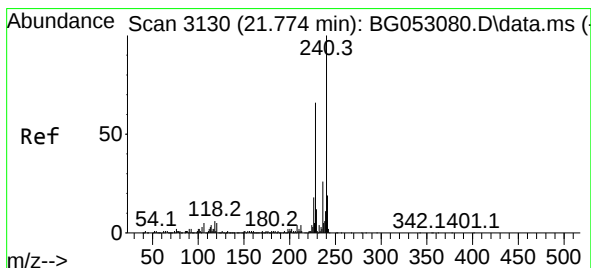
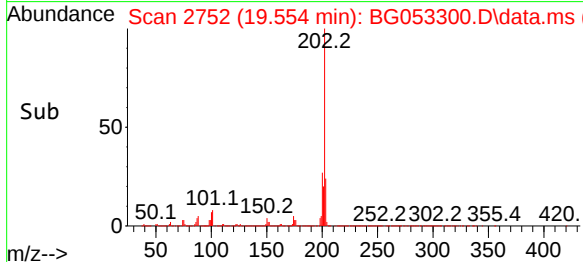
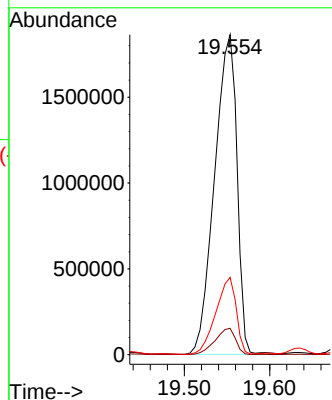
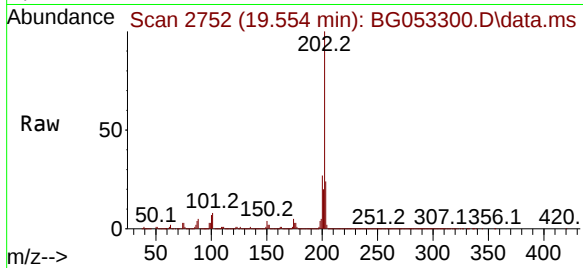




#75
Fluoranthene
Concen: 249.937 ng
RT: 19.554 min Scan# 21
Delta R.T. 0.026 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

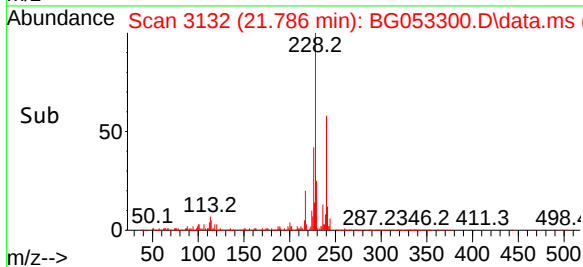
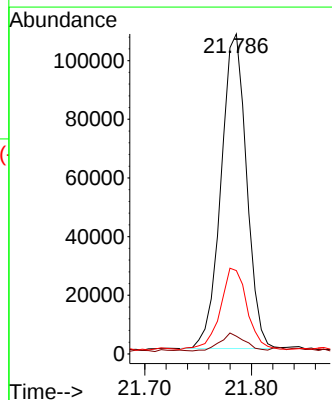
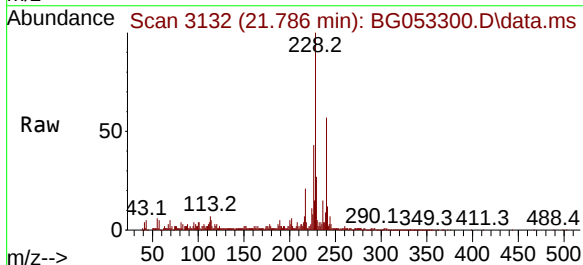
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

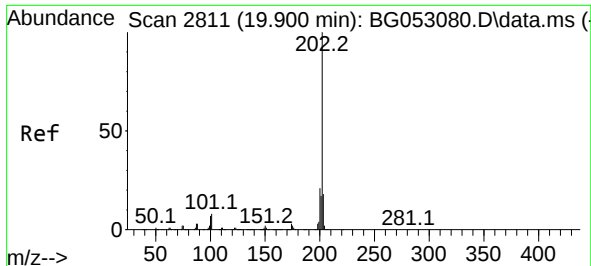
Tgt Ion:202 Resp: 3392221
Ion Ratio Lower Upper
202 100
101 8.2 0.0 27.3
203 24.1 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.786 min Scan# 3132
Delta R.T. 0.020 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:240 Resp: 178155
Ion Ratio Lower Upper
240 100
120 5.5 5.4 8.0
236 26.1 19.8 29.6

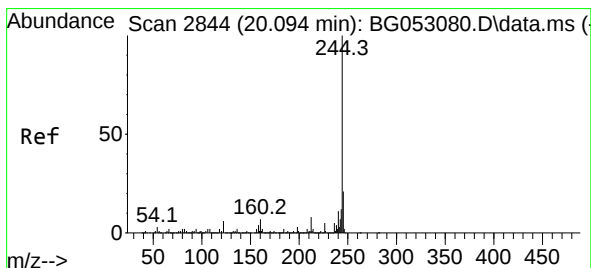
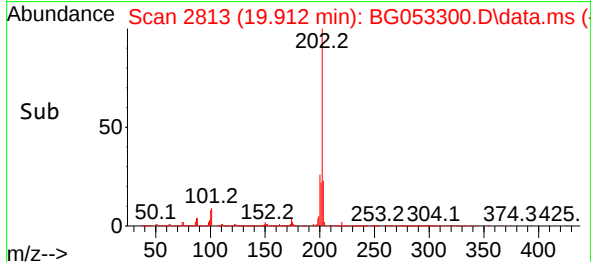
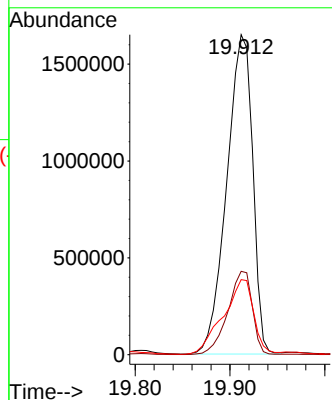
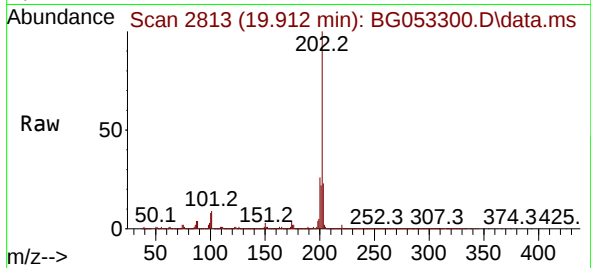




#78
 Pyrene
 Concen: 246.670 ng
 RT: 19.912 min Scan# 2813
 Delta R.T. 0.020 min
 Lab File: BG053300.D
 Acq: 23 Apr 2022 19:34

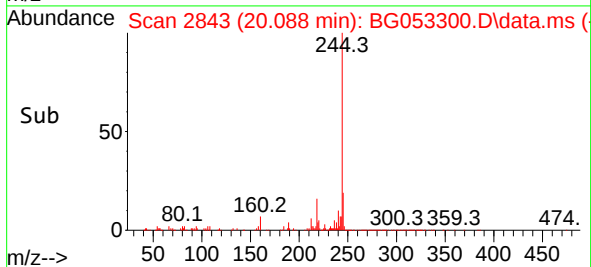
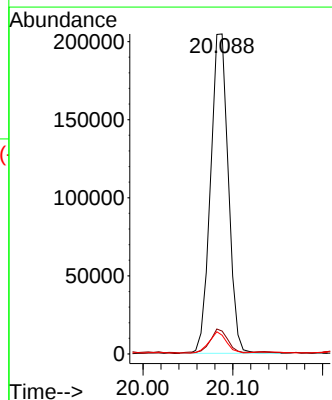
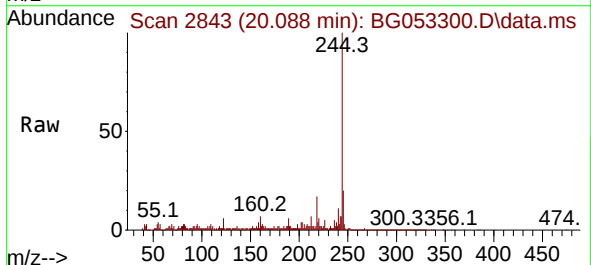
Instrument :
 BNA_G
 ClientSampleId :
 PAT-03-041922

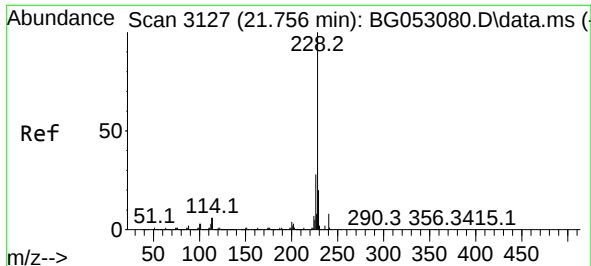
Tgt Ion:202 Resp: 3129796
 Ion Ratio Lower Upper
 202 100
 200 26.0 17.0 25.6#
 203 23.5 15.0 22.6#



#79
 Terphenyl-d14
 Concen: 26.580 ng
 RT: 20.088 min Scan# 2843
 Delta R.T. 0.003 min
 Lab File: BG053300.D
 Acq: 23 Apr 2022 19:34

Tgt Ion:244 Resp: 280380
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.4 8.2
 122 5.8 5.8 8.6

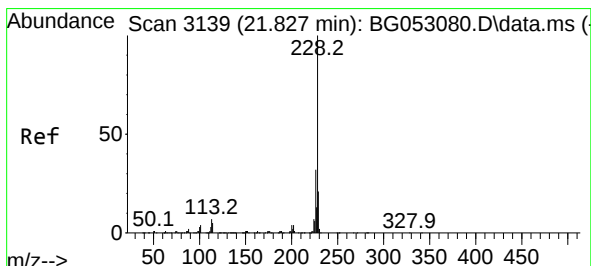
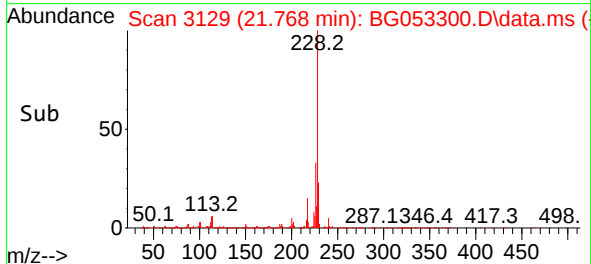
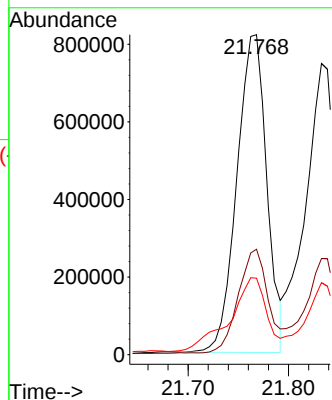
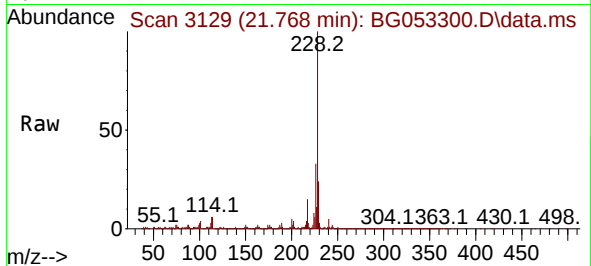




#81
Benzo(a)anthracene
Concen: 139.441 ng
RT: 21.768 min Scan# 3127
Delta R.T. 0.020 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

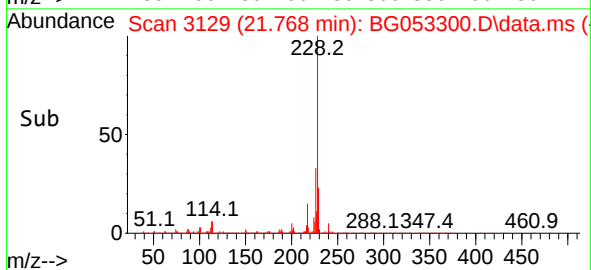
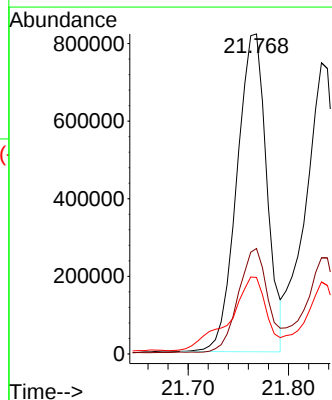
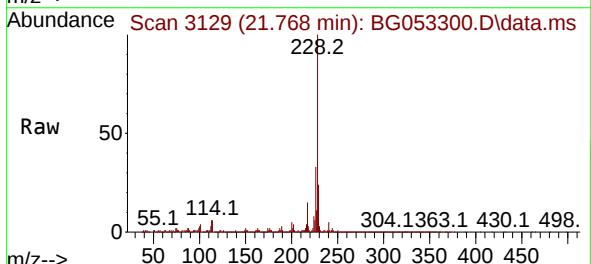
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

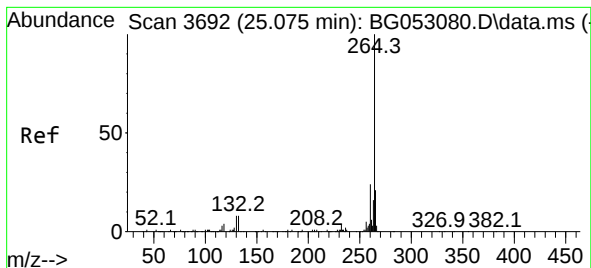
Tgt Ion:228 Resp: 1698527
Ion Ratio Lower Upper
228 100
226 33.0 21.4 32.0#
229 23.9 16.7 25.1



#83
Chrysene
Concen: 150.248 ng
RT: 21.768 min Scan# 3129
Delta R.T. -0.044 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:228 Resp: 1698527
Ion Ratio Lower Upper
228 100
226 33.0 24.2 36.4
229 23.9 16.3 24.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.105 min Scan# 3

Delta R.T. 0.044 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

Instrument :

BNA_G

ClientSampleId :

PAT-03-041922

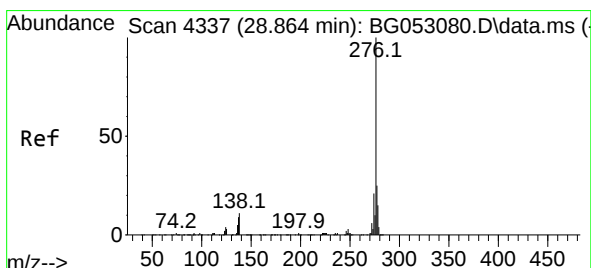
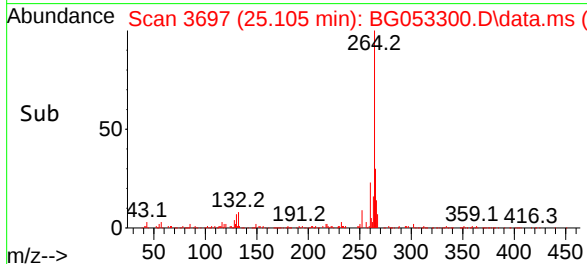
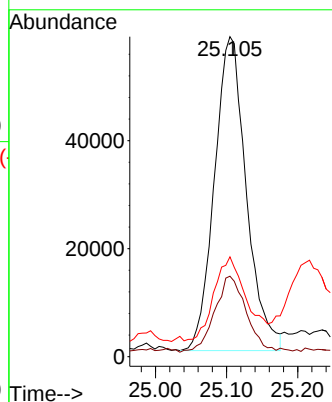
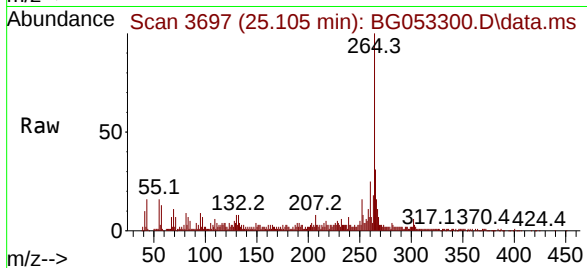
Tgt Ion:264 Resp: 181144

Ion Ratio Lower Upper

264 100

260 25.1 18.2 27.2

265 31.2 15.1 22.7#



#87

Indeno(1,2,3-cd)pyrene

Concen: 63.755 ng

RT: 28.923 min Scan# 4347

Delta R.T. 0.073 min

Lab File: BG053300.D

Acq: 23 Apr 2022 19:34

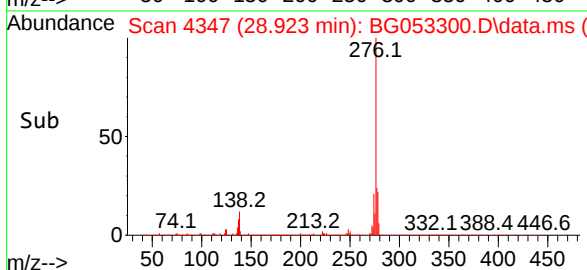
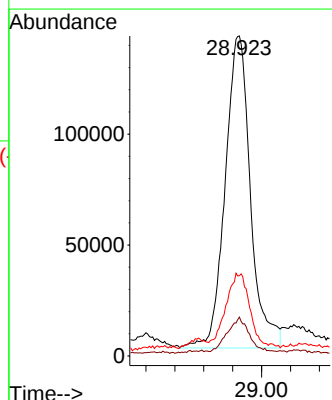
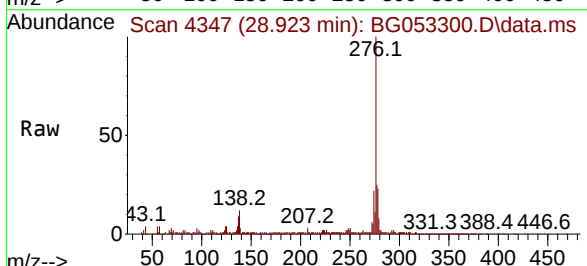
Tgt Ion:276 Resp: 858015

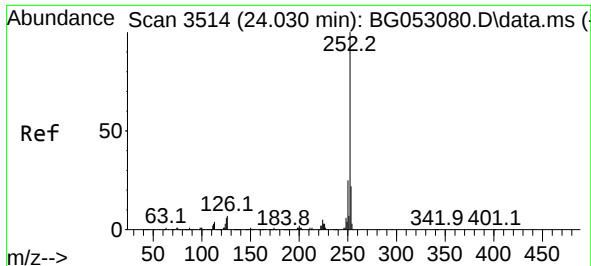
Ion Ratio Lower Upper

276 100

138 9.4 8.7 13.1

277 21.4 20.2 30.4

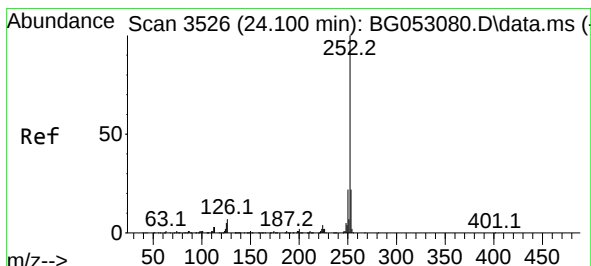
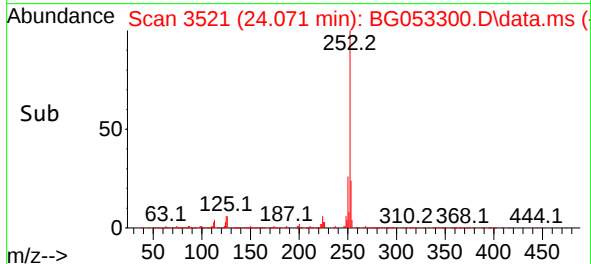
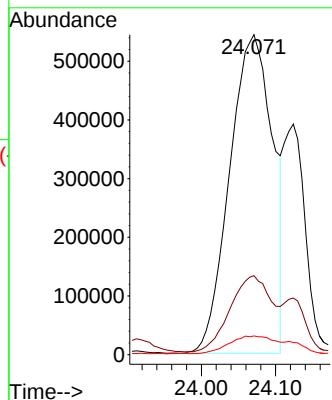
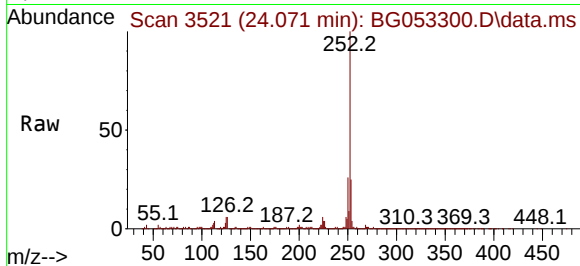




#88
Benzo(b)fluoranthene
Concen: 190.899 ng
RT: 24.071 min Scan# 3521
Delta R.T. 0.050 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

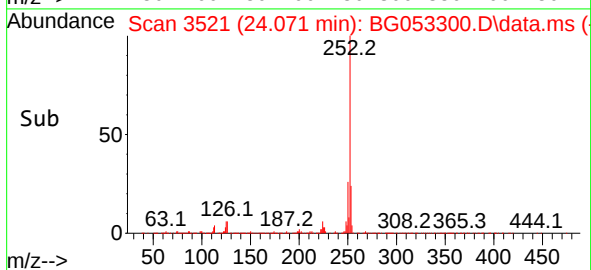
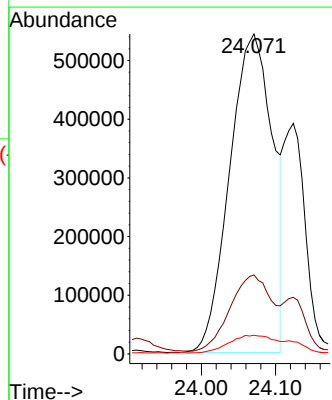
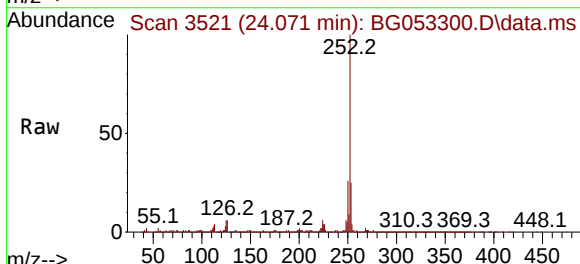
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

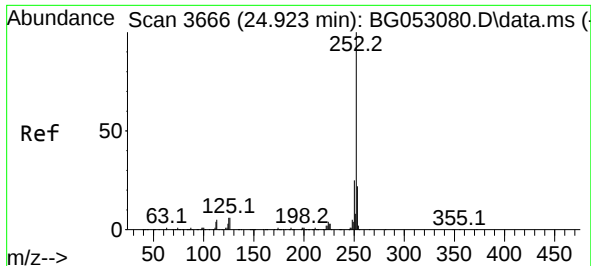
Tgt Ion:252 Resp: 2181812
Ion Ratio Lower Upper
252 100
253 24.7 17.2 25.8
125 5.9 5.2 7.8



#89
Benzo(k)fluoranthene
Concen: 194.237 ng
RT: 24.071 min Scan# 3521
Delta R.T. -0.015 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:252 Resp: 2181812
Ion Ratio Lower Upper
252 100
253 24.7 17.4 26.0
125 5.9 5.0 7.4

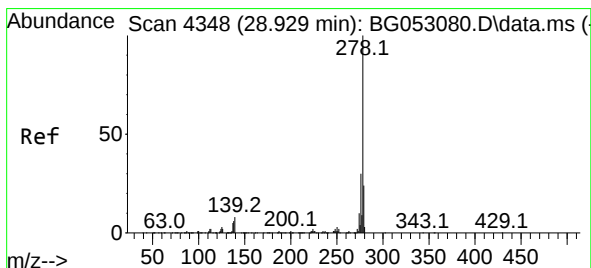
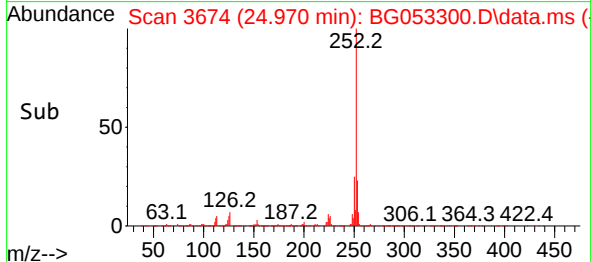
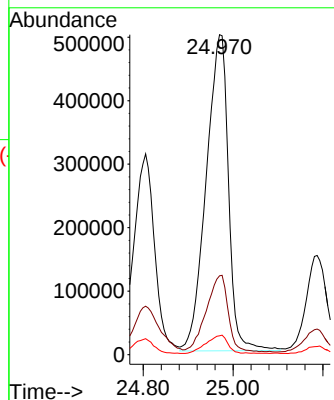
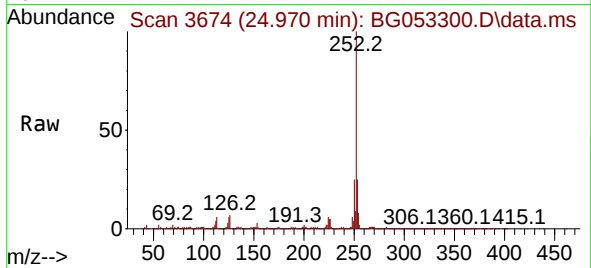




#90
Benzo(a)pyrene
Concen: 176.302 ng
RT: 24.970 min Scan# 30
Delta R.T. 0.055 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

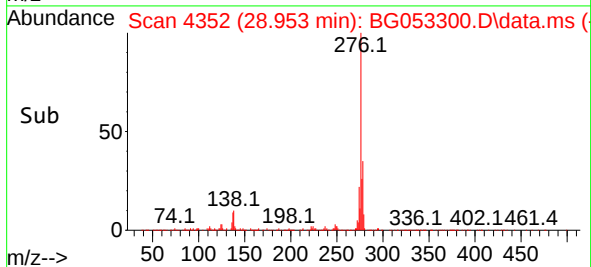
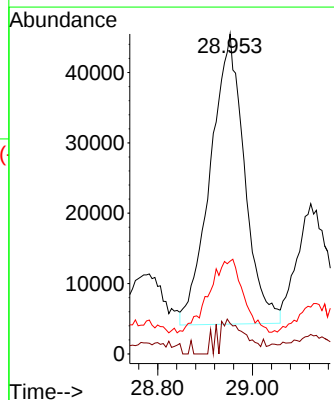
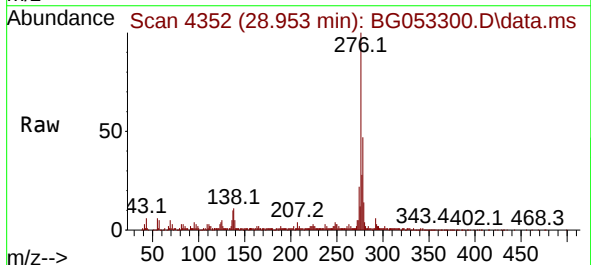
Instrument :
BNA_G
ClientSampleId :
PAT-03-041922

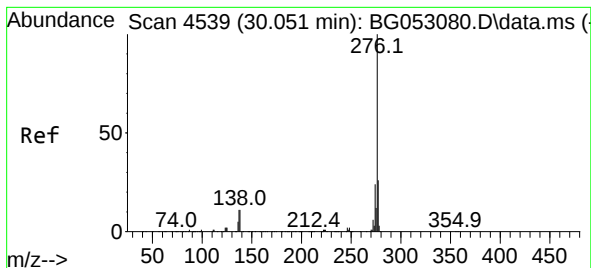
Tgt Ion:252 Resp: 1716583
Ion Ratio Lower Upper
252 100
253 24.7 18.4 27.6
125 5.9 5.6 8.4



#91
Dibenzo(a,h)anthracene
Concen: 18.597 ng
RT: 28.953 min Scan# 4352
Delta R.T. 0.050 min
Lab File: BG053300.D
Acq: 23 Apr 2022 19:34

Tgt Ion:278 Resp: 205992
Ion Ratio Lower Upper
278 100
139 9.5 7.8 11.6
279 29.0 18.5 27.7#





#92

Benzo(g,h,i)perylene

Concen: 64.740 ng

RT: 30.104 min Scan# 4

Delta R.T. 0.067 min

Lab File: BG053300.D

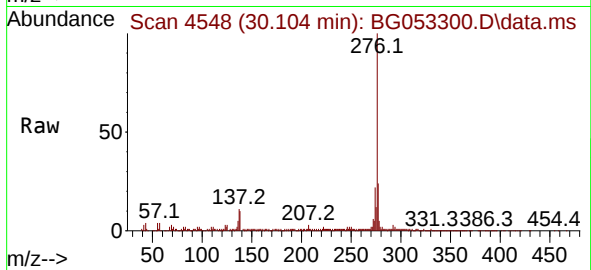
Acq: 23 Apr 2022 19:34

Instrument :

BNA_G

ClientSampleId :

PAT-03-041922



Tgt Ion:276 Resp: 706802

Ion Ratio Lower Upper

276 100

277 23.9 18.2 27.2

138 10.1 9.1 13.7

