

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG051220\
 Data File : BG045367.D
 Acq On : 13 May 2020 18:35
 Operator : CG/JU
 Sample : L2593-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: May 14 00:55:38 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 11:40:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.97	152	86036	20.00	ng	0.00
21) Naphthalene-d8	10.78	136	356430	20.00	ng	0.00
39) Acenaphthene-d10	14.62	164	238862	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	470798	20.00	ng	0.00
76) Chrysene-d12	21.63	240	385386	20.00	ng	0.00
87) Perylene-d12	24.80	264	432966	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.55	112	459452	88.16	ng	0.00
7) Phenol-d6	7.14	99	693628	89.58	ng	0.00
23) Nitrobenzene-d5	9.13	82	469176	60.06	ng	0.00
42) 2,4,6-Tribromophenol	16.11	330	294875	79.91	ng	0.00
45) 2-Fluorobiphenyl	13.24	172	1070941	65.74	ng	0.00
79) Terphenyl-d14	19.98	244	1296017	73.30	ng	0.00

Target Compounds

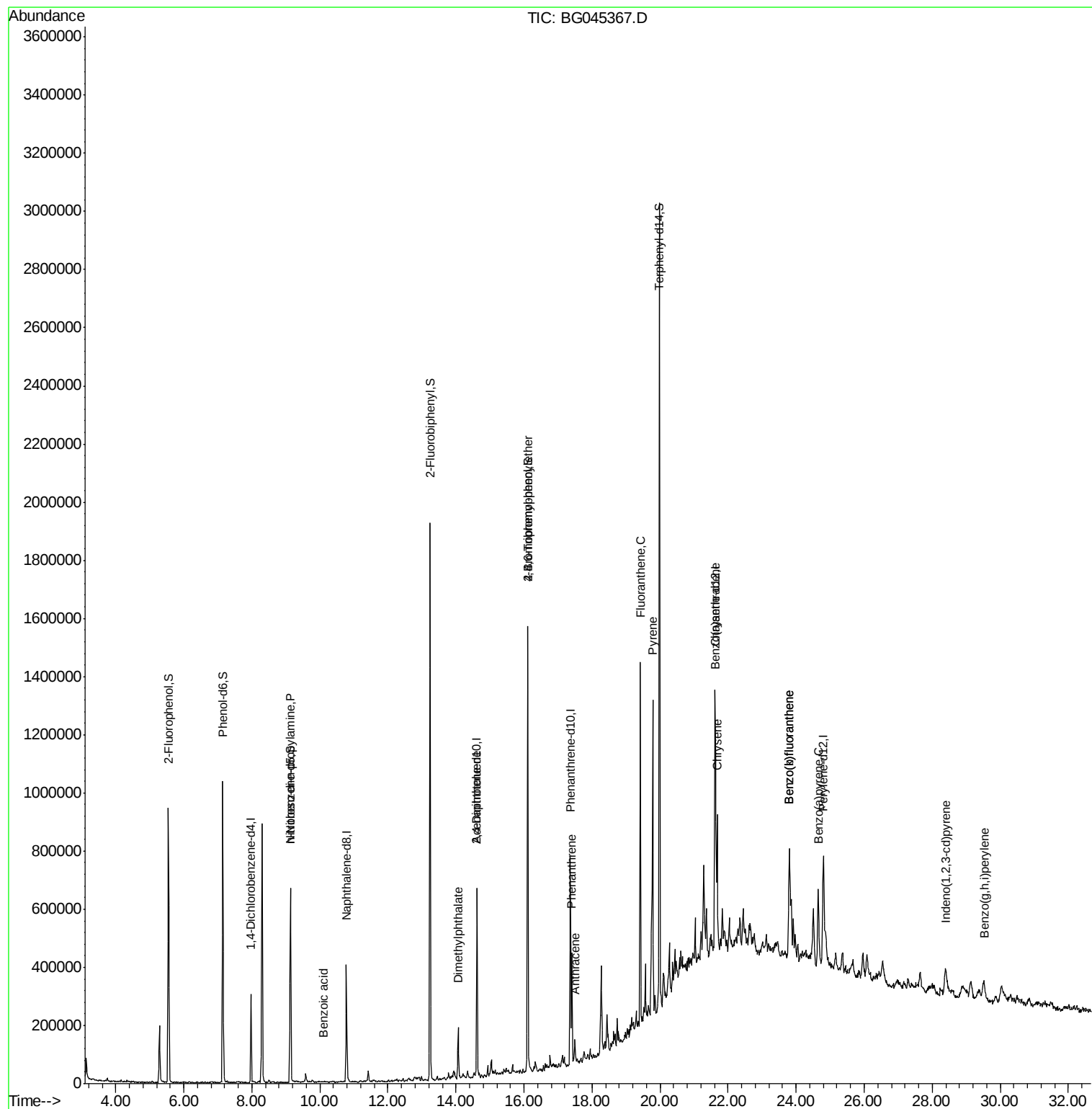
						Qvalue
9) Benzaldehyde	7.09	77	172	Below Cal	#	4
19) n-Nitroso-di-n-propylamine	9.13	70	62125	11.346 ng	#	83
32) Benzoic acid	10.10	122	85	6.390 ng	#	1
50) Dimethylphthalate	14.06	163	116679	5.999 ng	#	96
57) 2,4-Dinitrotoluene	14.62	165	31988	5.032 ng	#	23
67) 4-Bromophenyl-phenylether	16.11	248	20917	3.444 ng	#	1
69) Atrazine	16.72	200	213	Below Cal		91
71) Phenanthrene	17.41	178	237888	9.833 ng		95
72) Anthracene	17.50	178	55414	2.283 ng		98
74) Di-n-butylphthalate	18.34	149	5366	Below Cal	#	87
75) Fluoranthene	19.42	202	809646	25.846 ng		98
77) Benzidine	19.36	184	1420	Below Cal	#	1
78) Pvrene	19.78	202	698054	26.274 ng		97
81) Benzo(a)anthracene	21.61	228	424615	16.999 ng		98
83) Chrysene	21.68	228	338768	14.115 ng		97
86) Indeno(1,2,3-cd)pyrene	28.39	276	175770	5.516 ng		96
88) Benzo(b)fluoranthene	23.80	252	481124	17.740 ng		100
89) Benzo(k)fluoranthene	23.80	252	481124	18.654 ng		99
90) Benzo(a)pvrene	24.65	252	306767	11.980 ng		98
92) Benzo(a,h,i)perylene	29.53	276	154765	5.983 ng	#	96

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

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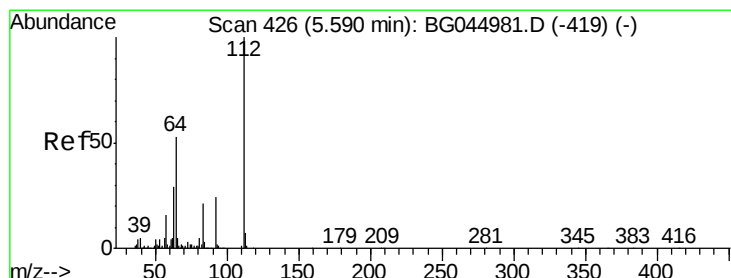
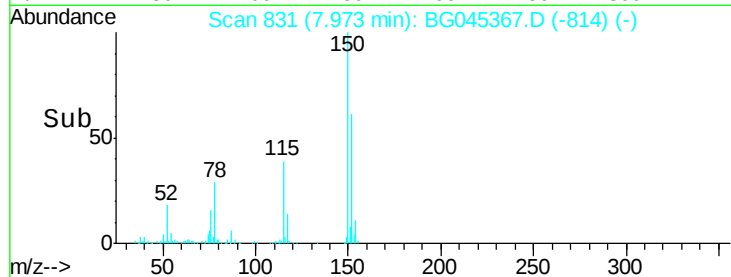
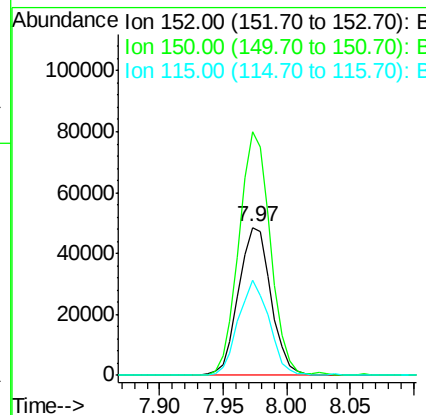
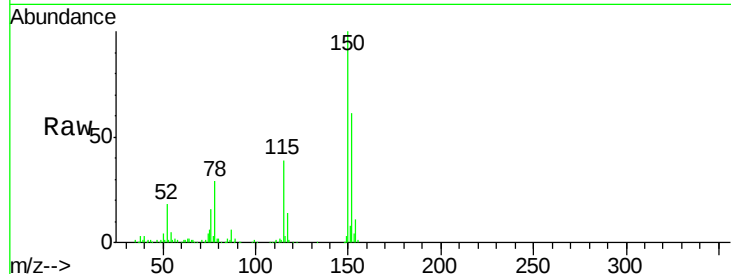


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.97 min Scan# 831
Delta R.T. 0.00 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Instrument :
BNA_G
ClientSampleId :

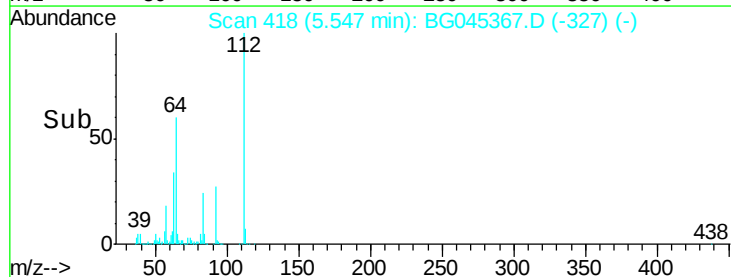
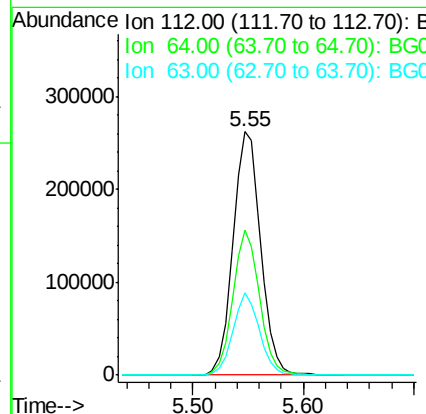
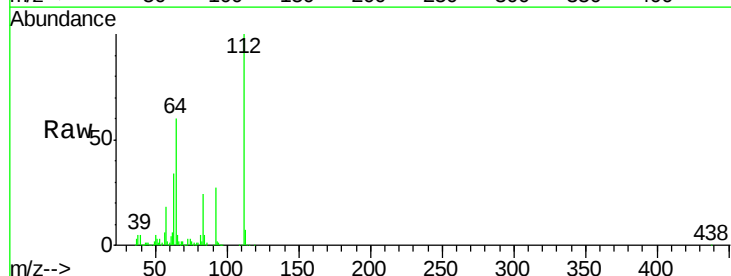
Tot Ion	Ratio	Lower	Upper
152	100		
150	164.3	123.6	185.4
115	63.8	49.1	73.7

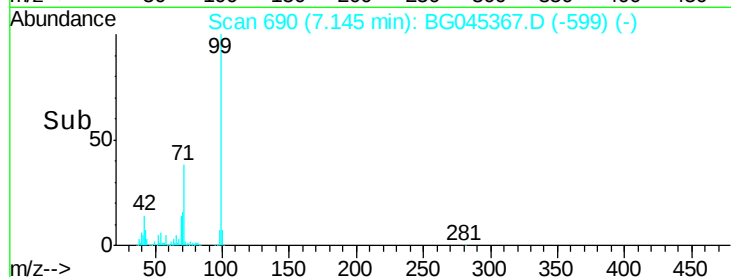
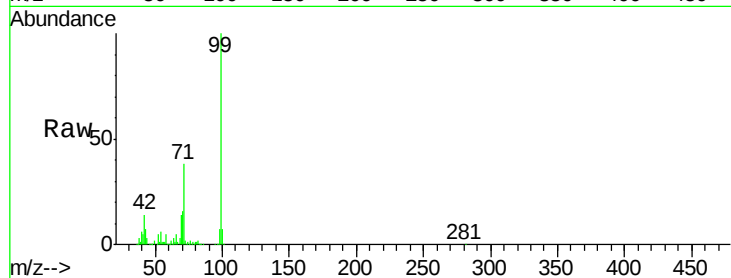


#5

2-Fluorophenol
Concen: 88.164 ng
RT: 5.55 min Scan# 418
Delta R.T. 0.01 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	42.4	63.6
63	33.7	23.1	34.7





#7

Phenol-d6

Concen: 89.585 ng

RT: 7.14 min Scan# 690

Delta R.T. 0.01 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

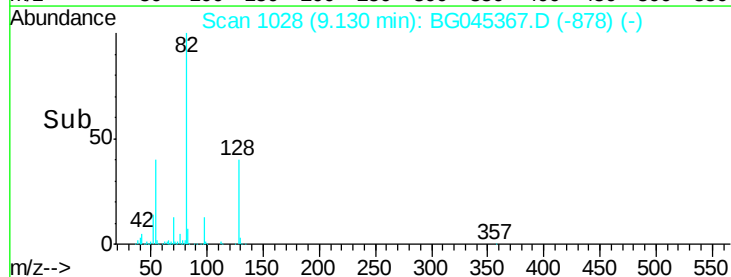
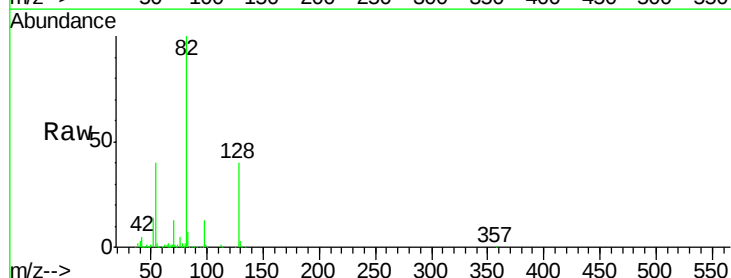
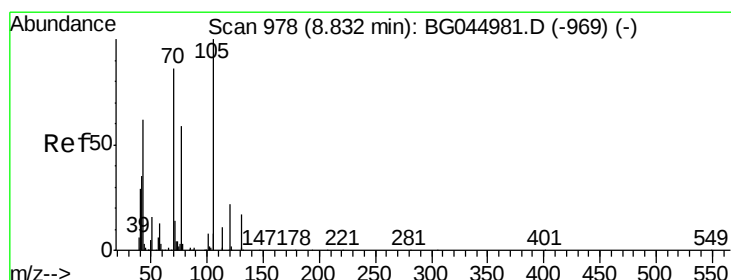
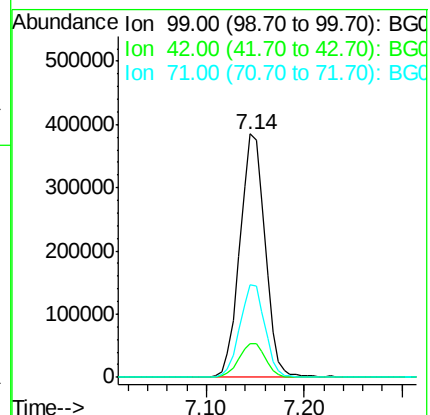
Tot Ion: 99 Resp: 693628

Ion Ratio Lower Upper

99 100

42 13.9 11.3 16.9

71 38.1 28.3 42.5



#19

n-Nitroso-di-n-propylamine

Concen: 11.346 ng

RT: 9.13 min Scan# 1028

Delta R.T. 0.35 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Tgt Ion: 70 Resp: 62125

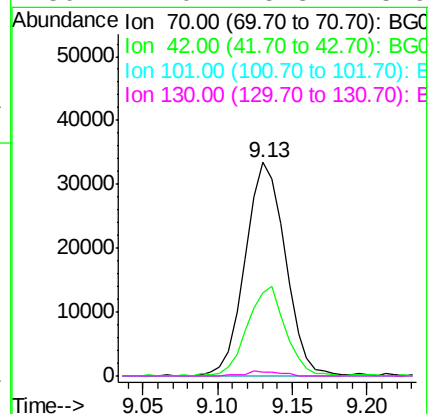
Ion Ratio Lower Upper

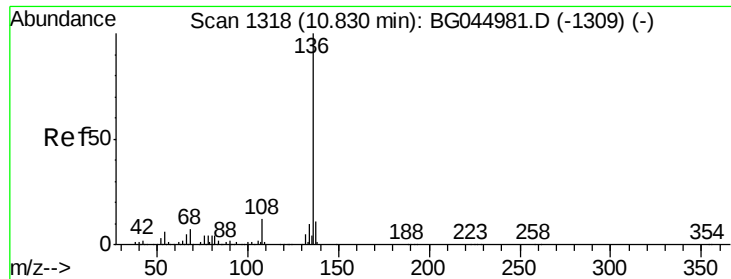
70 100

42 38.8 33.3 49.9

101 0.0 7.8 11.8#

130 2.0 15.8 23.6#

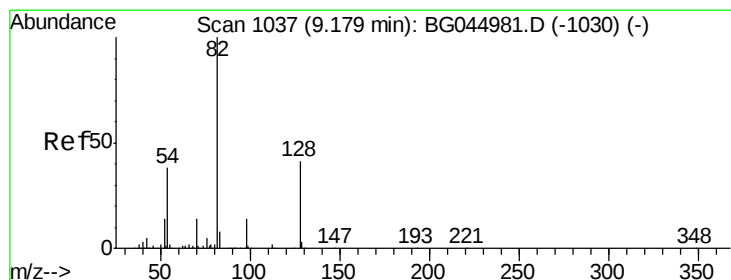
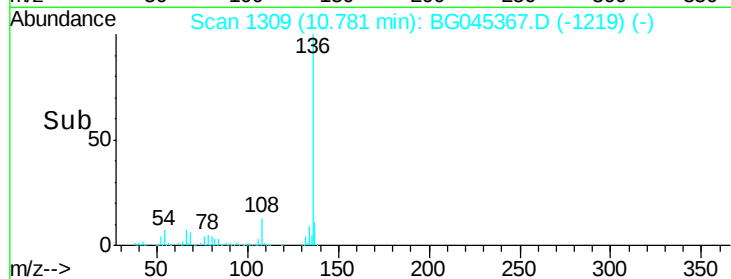
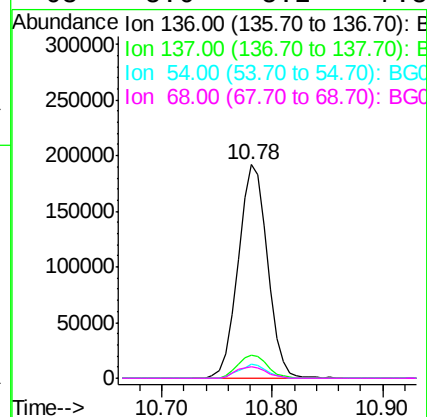
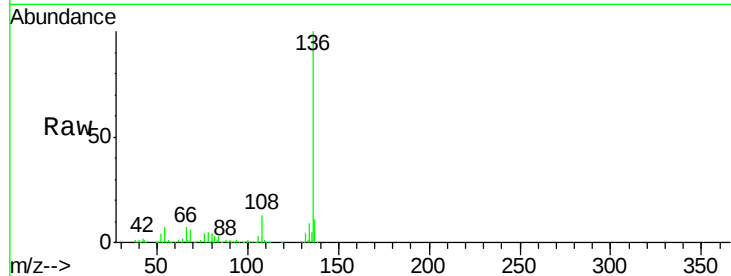




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.78 min Scan# 1309
Delta R.T. 0.00 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

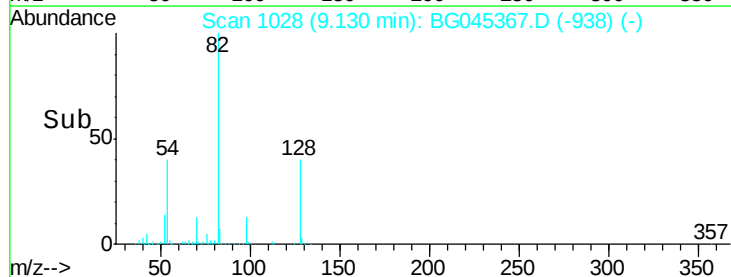
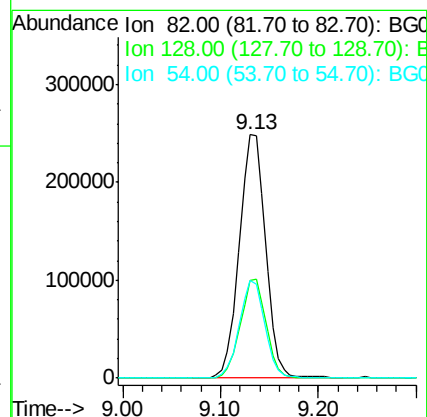
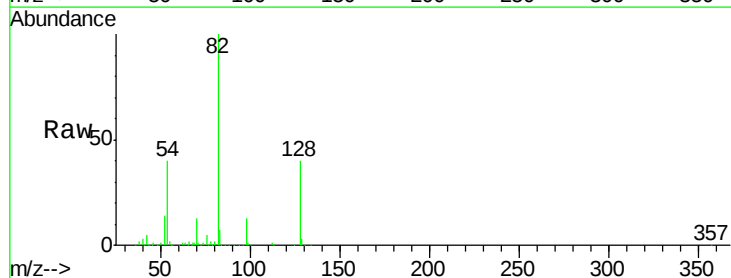
Instrument :
BNA_G
ClientSampleId :

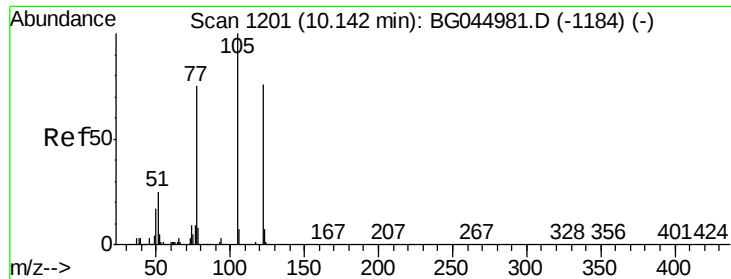
Tot Ion:136	Resp:	356430
Ion Ratio	Lower	Upper
136 100		
137 11.0	8.6	13.0
54 6.6	4.8	7.2
68 5.6	5.2	7.8



#23
Nitrobenzene-d5
Concen: 60.062 ng
RT: 9.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Tgt Ion: 82	Resp: 469176
Ion Ratio	Lower Upper
82 100	
128 40.0	33.0 49.4
54 40.4	30.4 45.6

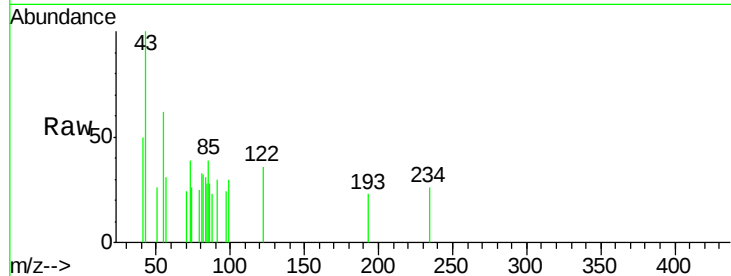




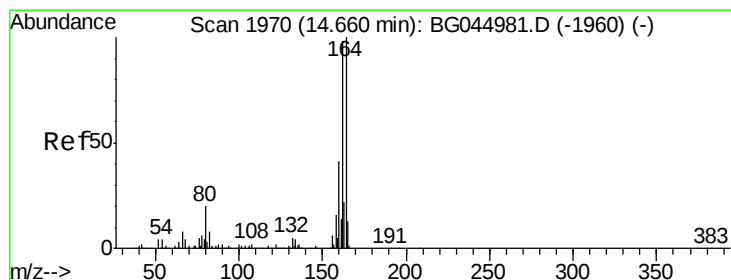
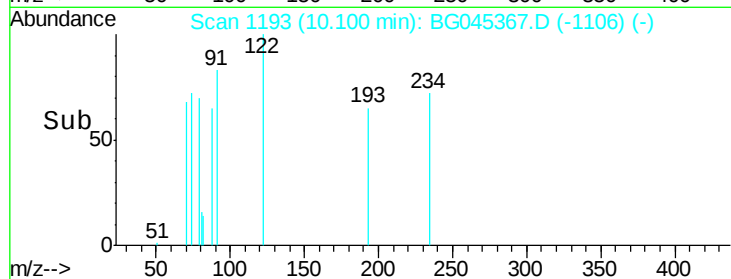
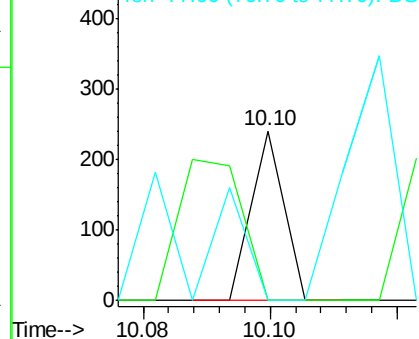
#32
Benzoic acid
Concen: 6.390 ng
RT: 10.10 min Scan# 1193
Delta R.T. -0.02 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
122	100		
105	0.0	108.4	148.4#
77	0.0	78.8	118.8#

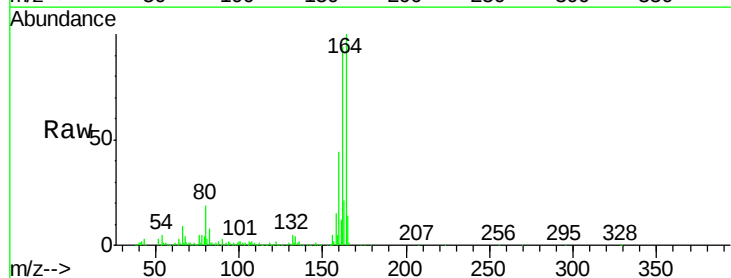


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): B

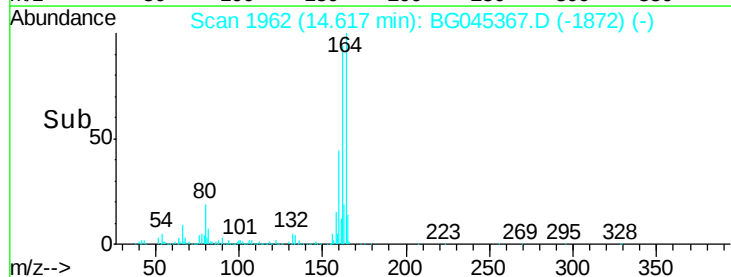
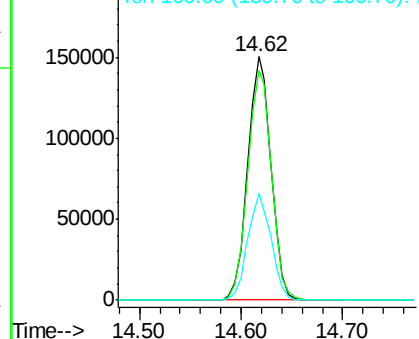


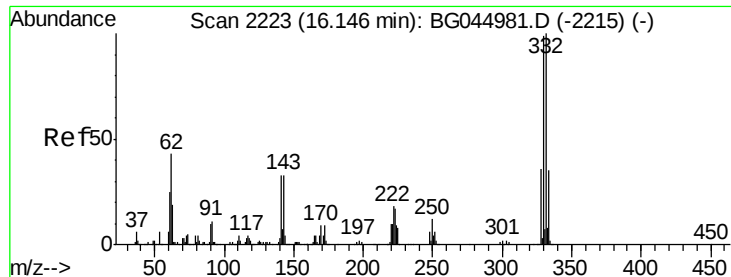
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.62 min Scan# 1962
Delta R.T. 0.00 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	94.1	78.7	118.1
160	43.7	32.8	49.2



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

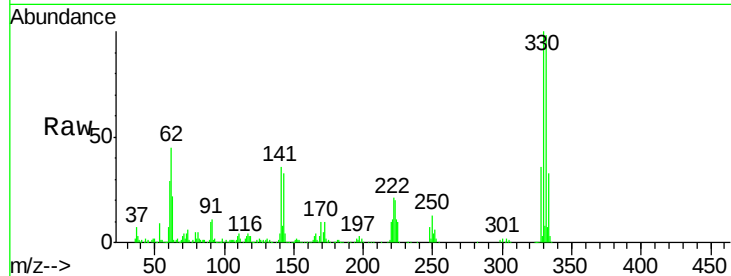




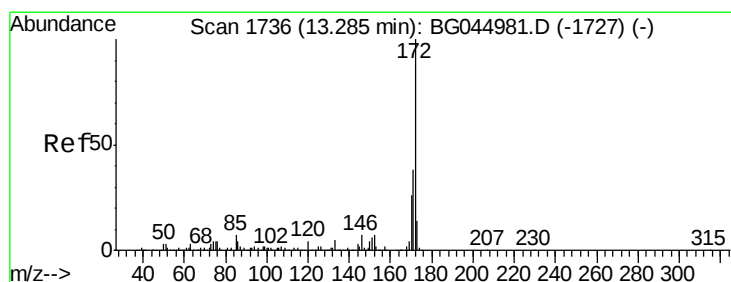
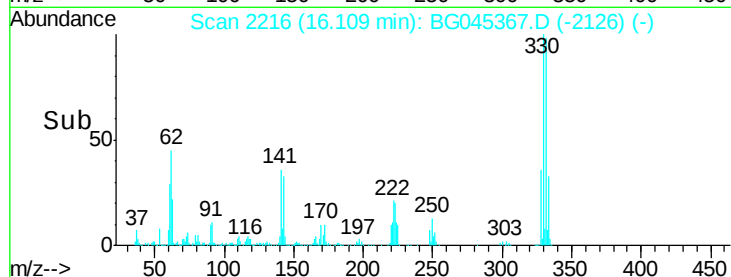
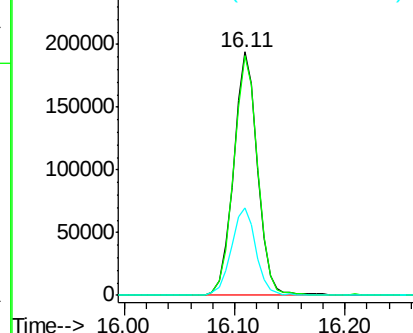
#42
 2,4,6-Tribromophenol
 Concen: 79.910 ng
 RT: 16.11 min Scan# 2216
 Delta R.T. 0.00 min
 Lab File: BG045367.D
 Acq: 13 May 2020 18:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.5	79.1	118.7
141	37.2	27.1	40.7

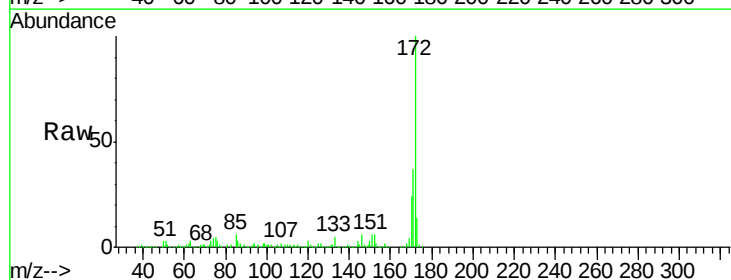


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

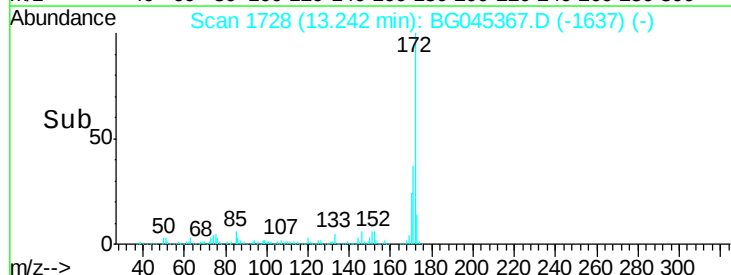
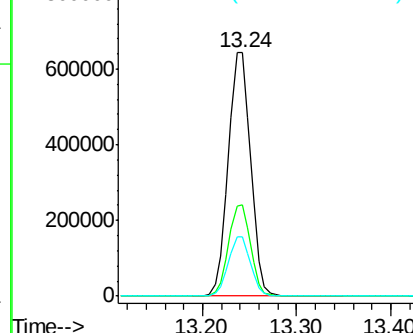


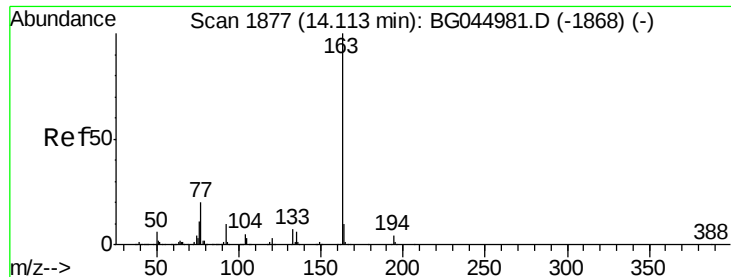
#45
 2-Fluorobiphenyl
 Concen: 65.743 ng
 RT: 13.24 min Scan# 1728
 Delta R.T. 0.01 min
 Lab File: BG045367.D
 Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	30.6	46.0
170	24.5	20.5	30.7



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

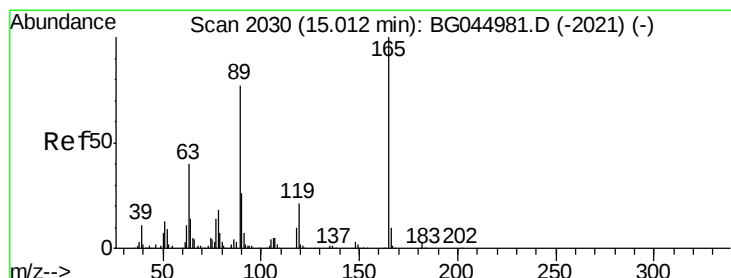
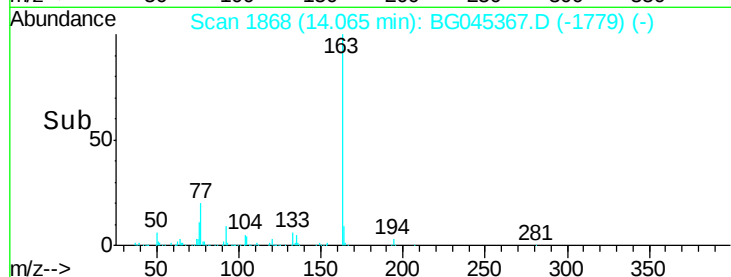
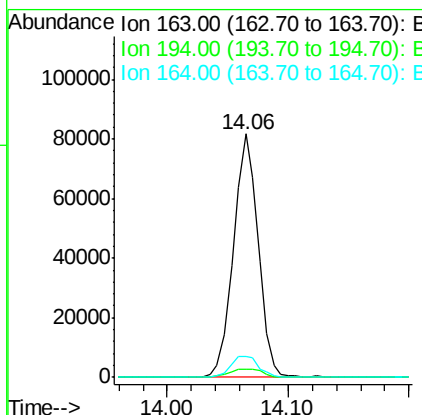
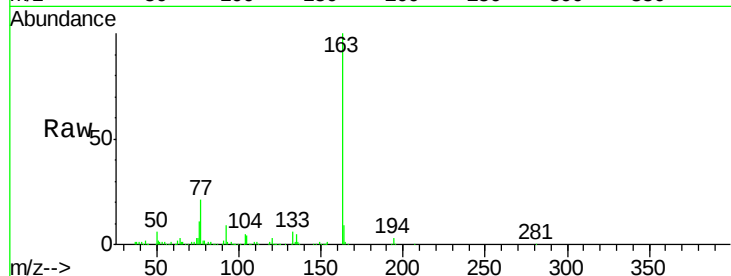




#50
Dimethylphthalate
Concen: 5.999 ng
RT: 14.06 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

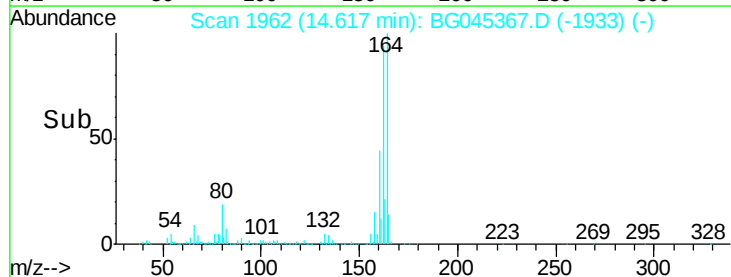
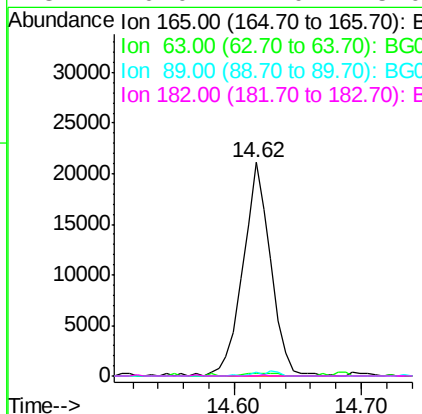
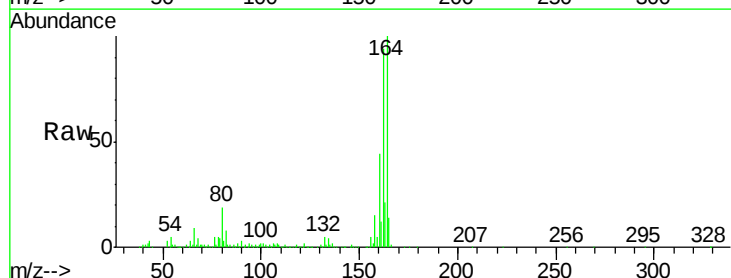
Instrument :
BNA_G
ClientSampled :

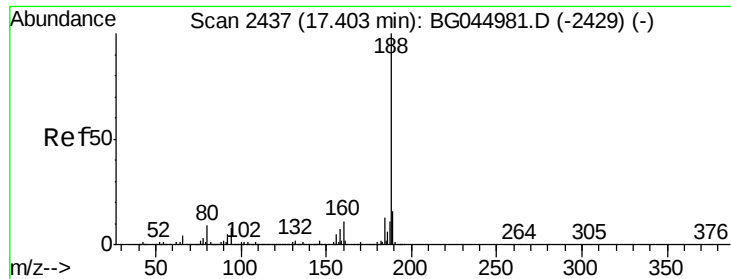
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	8.6	8.2	12.4



#57
2,4-Dinitrotoluene
Concen: 5.032 ng
RT: 14.62 min Scan# 1962
Delta R.T. -0.36 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	32.2	48.2#
89	1.7	61.7	92.5#
182	0.0	2.0	3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2430

Delta R.T. 0.00 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampleId :

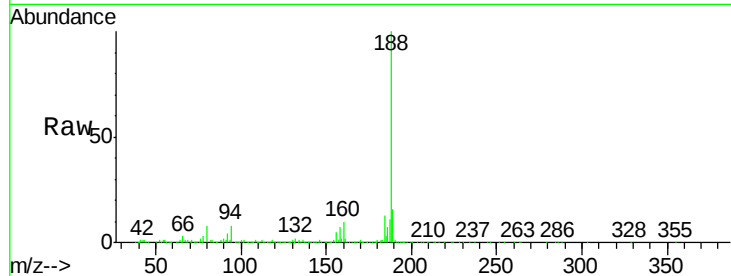
Tot Ion:188 Resp: 470798

Ion Ratio Lower Upper

188 100

94 7.6 6.2 9.4

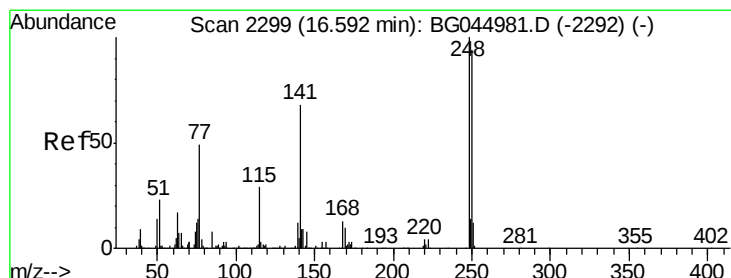
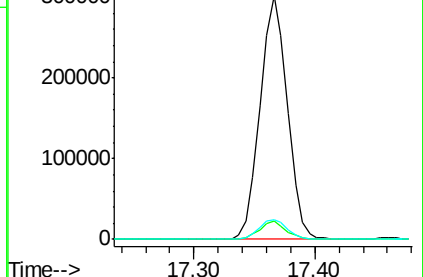
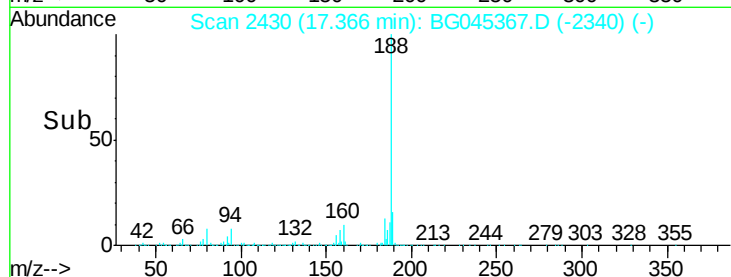
80 8.0 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): B

Ion 80.00 (79.70 to 80.70): B



#67

4-Bromophenyl-phenylether

Concen: 3.444 ng

RT: 16.11 min Scan# 2216

Delta R.T. -0.45 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

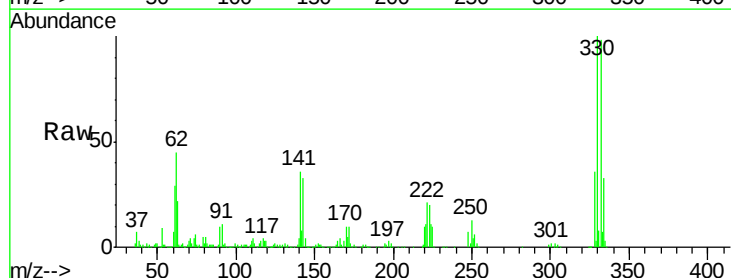
Tgt Ion:248 Resp: 20917

Ion Ratio Lower Upper

248 100

250 190.3 75.4 113.2#

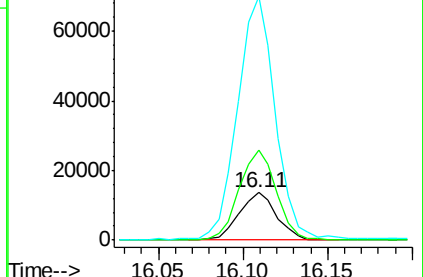
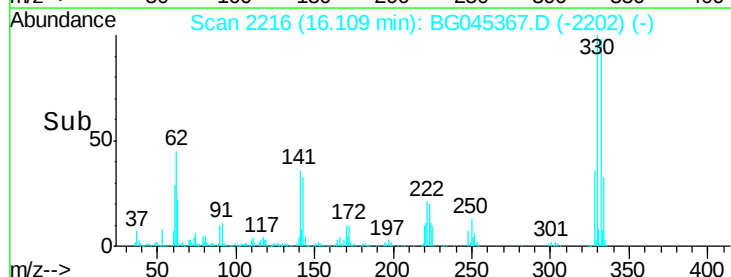
141 512.3 54.4 81.6#

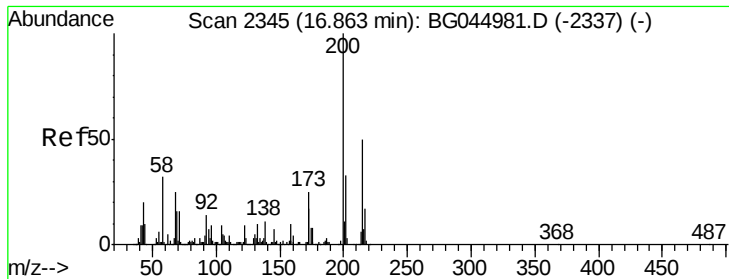


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 16.72 min Scan# 2320

Delta R.T. -0.10 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampled :

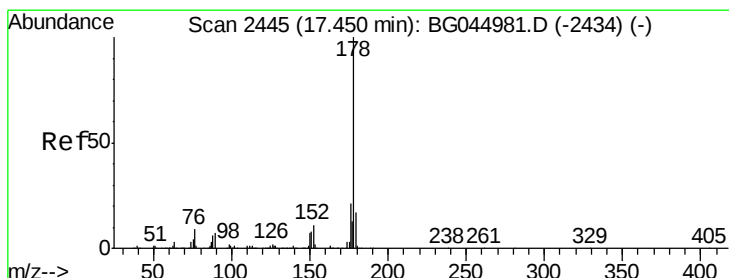
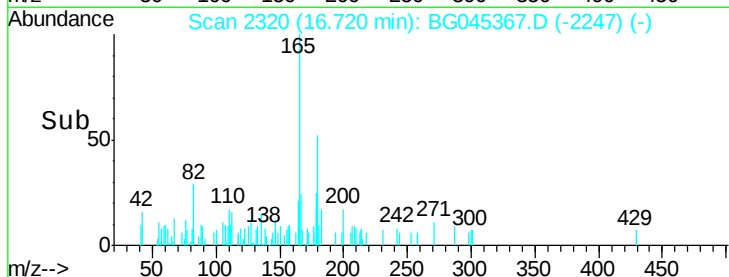
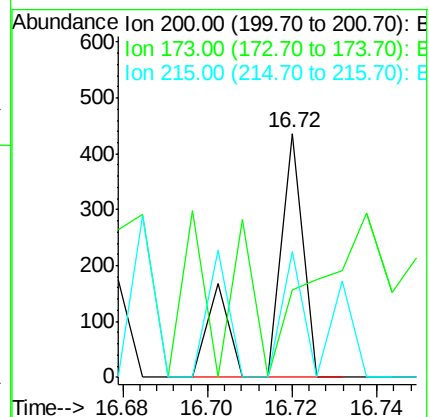
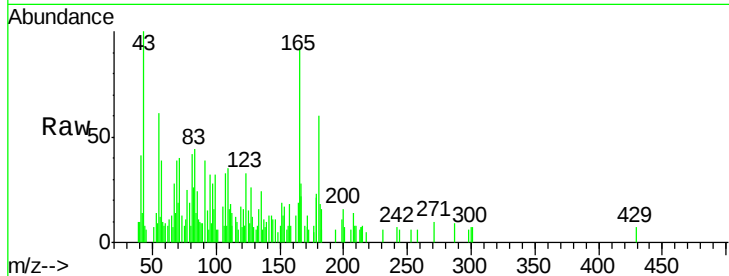
Tot Ion:200 Resp: 213

Ion Ratio Lower Upper

200 100

173 36.0 4.5 44.5

215 51.6 30.0 70.0



#71

Phenanthrene

Concen: 9.833 ng

RT: 17.41 min Scan# 2437

Delta R.T. 0.00 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

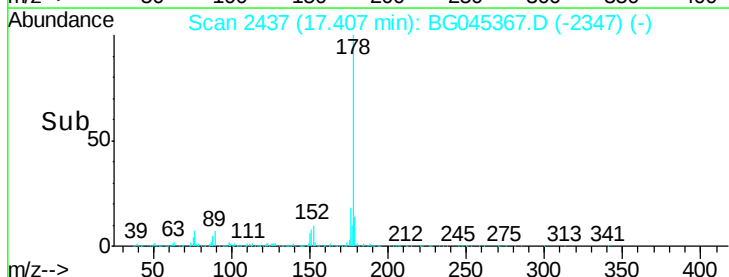
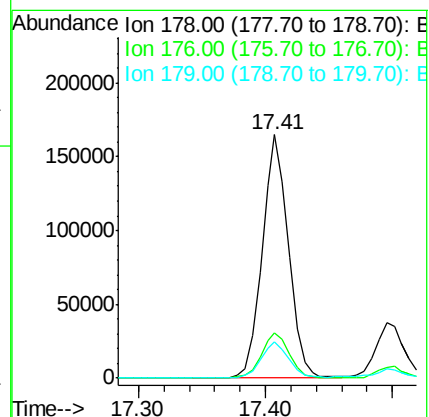
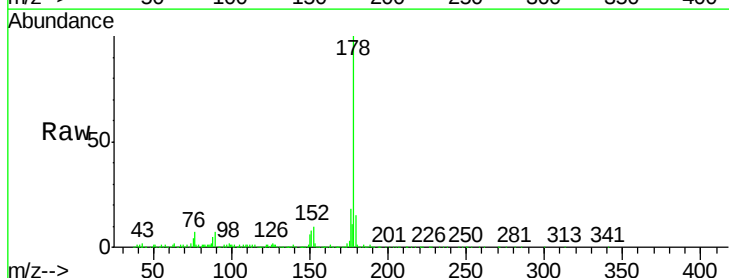
Tgt Ion:178 Resp: 237888

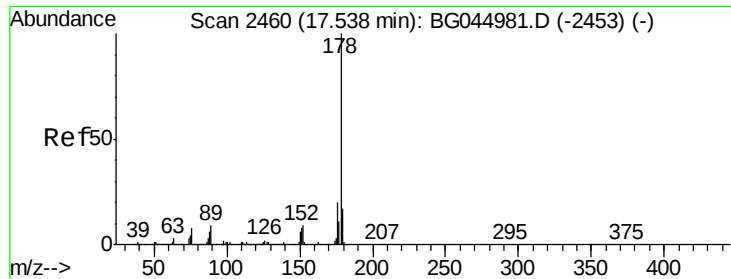
Ion Ratio Lower Upper

178 100

176 18.5 16.8 25.2

179 14.7 13.2 19.8





#72

Anthracene

Concen: 2.283 ng

RT: 17.50 min Scan# 2452

Delta R.T. 0.00 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampleId :

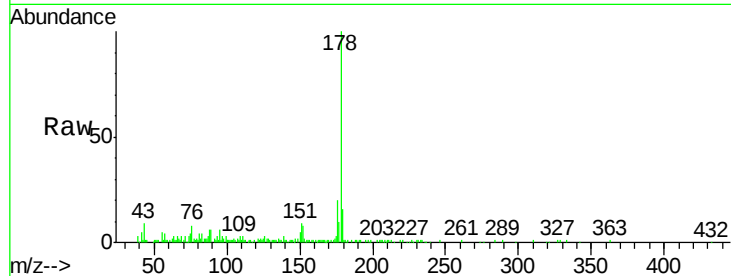
Tot Ion:178 Resp: 55414

Ion Ratio Lower Upper

178 100

176 19.5 16.0 24.0

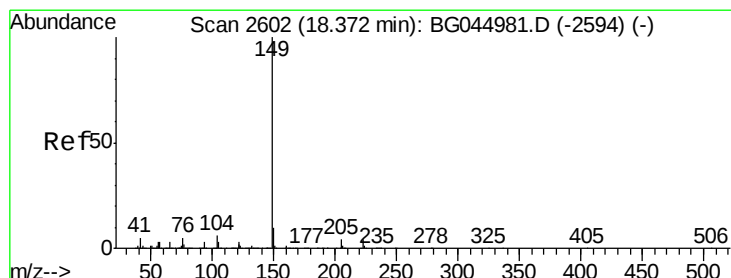
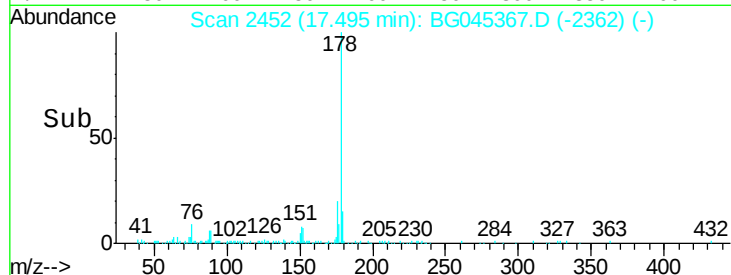
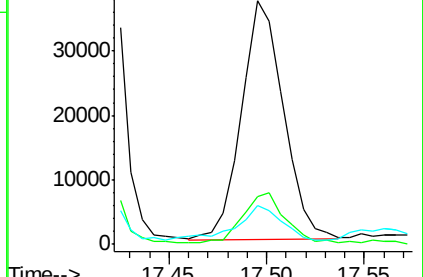
179 16.0 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.34 min Scan# 2595

Delta R.T. 0.01 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

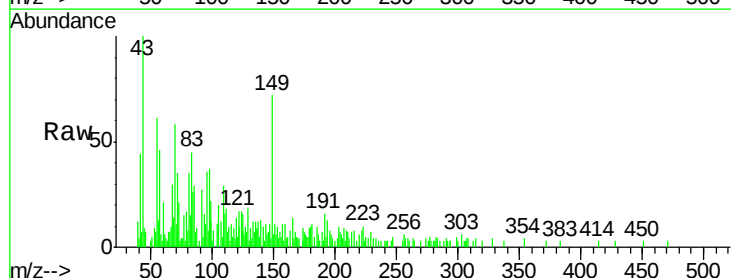
Tgt Ion:149 Resp: 5366

Ion Ratio Lower Upper

149 100

150 8.6 8.2 12.2

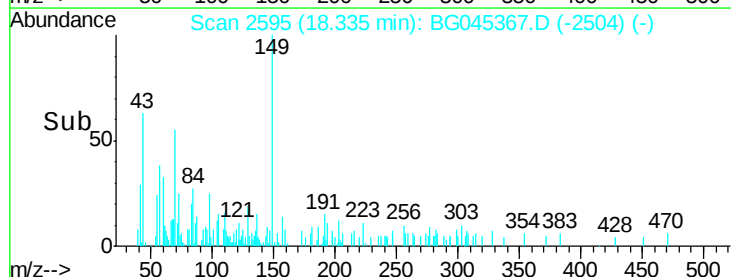
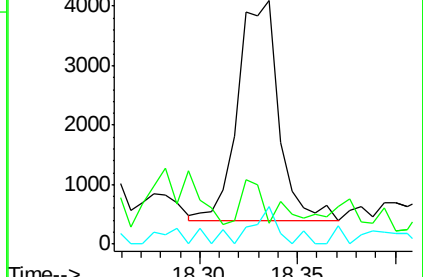
104 15.4 4.8 7.2#

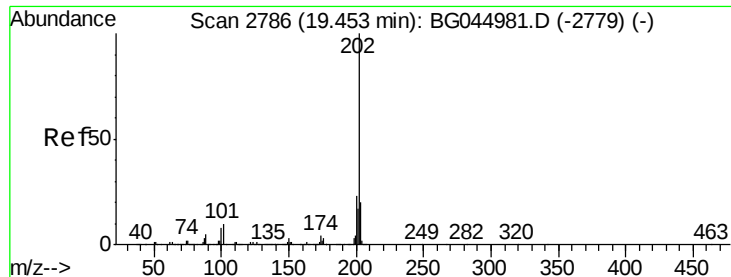


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

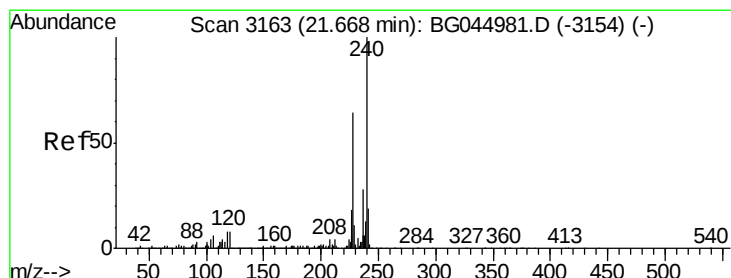
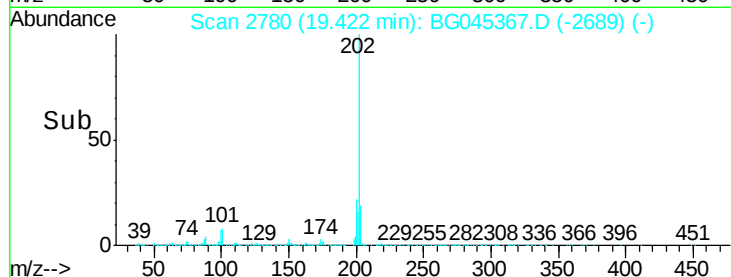
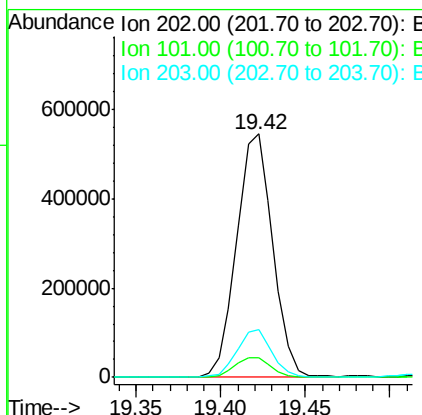
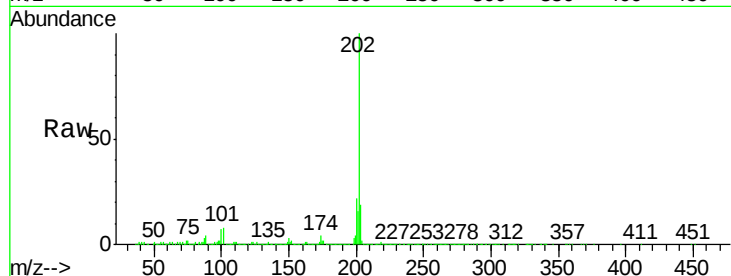




#75
 Fluoranthene
 Concen: 25.846 ng
 RT: 19.42 min Scan# 2780
 Delta R.T. 0.01 min
 Lab File: BG045367.D
 Acq: 13 May 2020 18:35

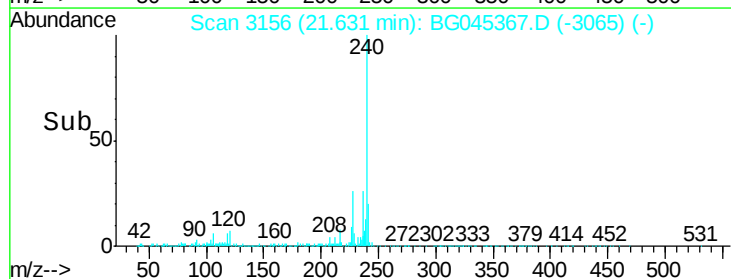
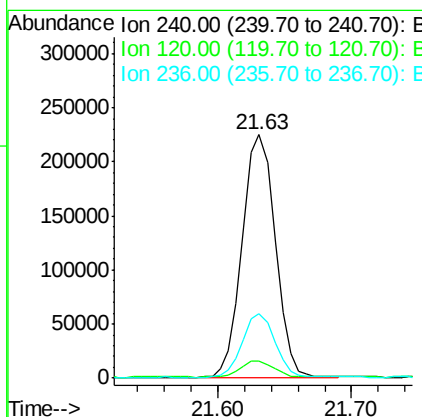
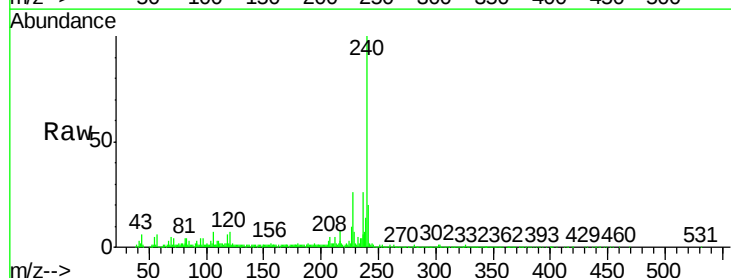
Instrument :
 BNA_G
 ClientSampleId :

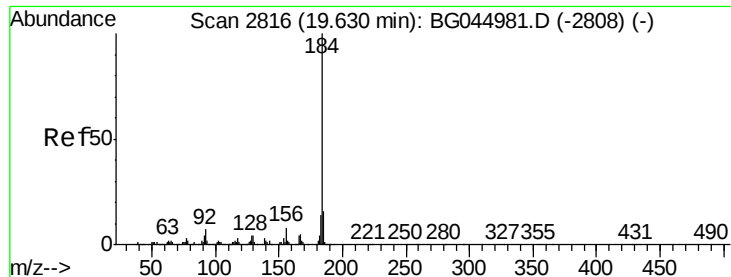
Tot Ion	Ratio	Lower	Upper
202	100		
101	7.9	0.0	29.6
203	19.5	0.0	39.7



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.63 min Scan# 3156
 Delta R.T. 0.01 min
 Lab File: BG045367.D
 Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.1	6.6	10.0
236	26.3	22.2	33.2





#77

Benzidine

Concen: Below Cal

RT: 19.36 min Scan# 2769

Delta R.T. -0.23 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampled :

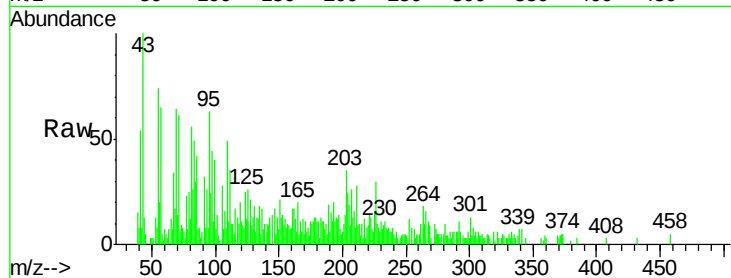
Tot Ion:184 Resp: 1420

Ion Ratio Lower Upper

184 100

185 100.3 12.6 19.0#

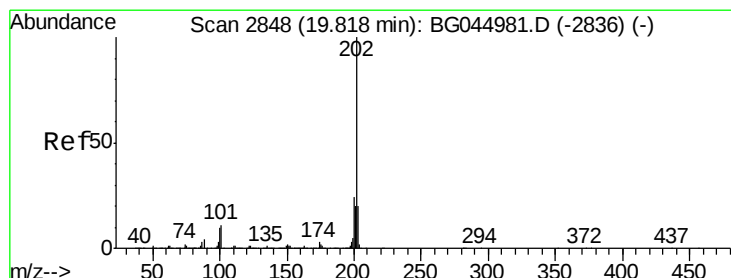
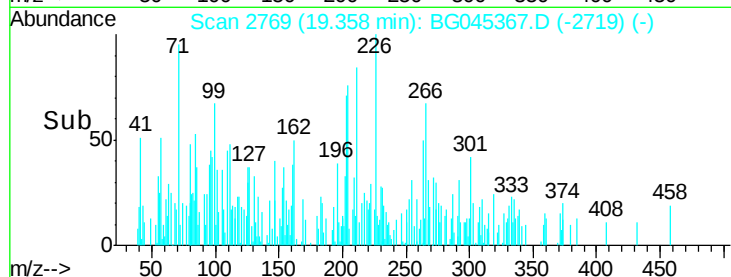
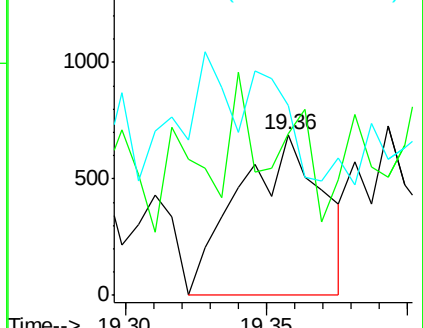
183 118.1 11.3 16.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 26.274 ng

RT: 19.78 min Scan# 2841

Delta R.T. 0.01 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

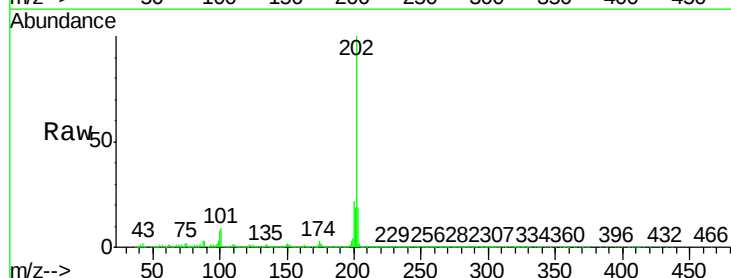
Tgt Ion:202 Resp: 698054

Ion Ratio Lower Upper

202 100

200 22.3 19.0 28.6

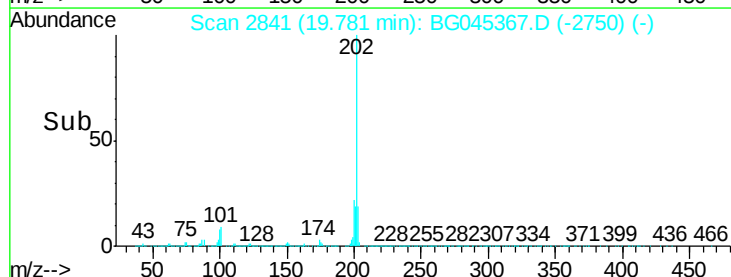
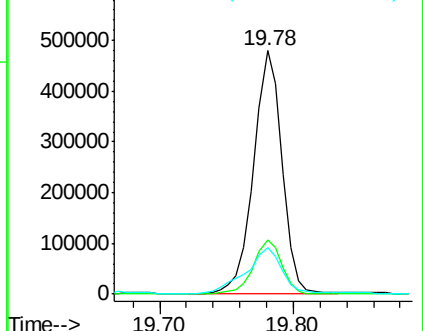
203 19.1 16.1 24.1

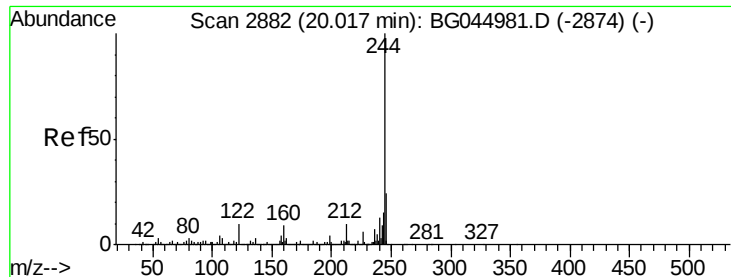


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 73.297 ng

RT: 19.98 min Scan# 2875

Delta R.T. 0.00 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampleId :

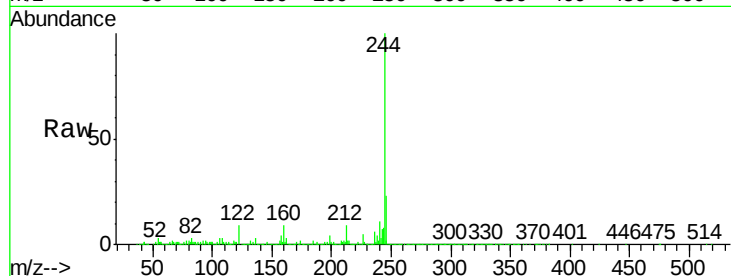
Tot Ion:244 Resp: 1296017

Ion Ratio Lower Upper

244 100

212 9.3 7.9 11.9

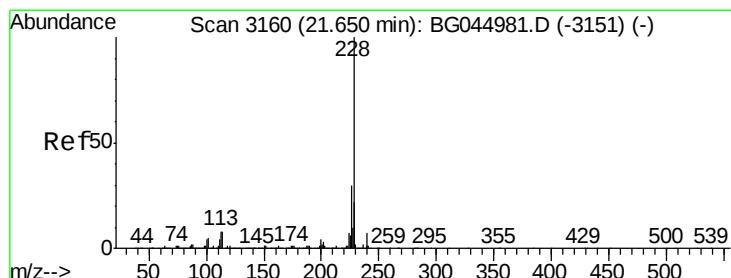
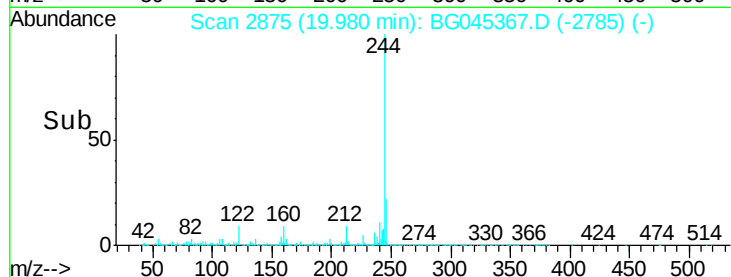
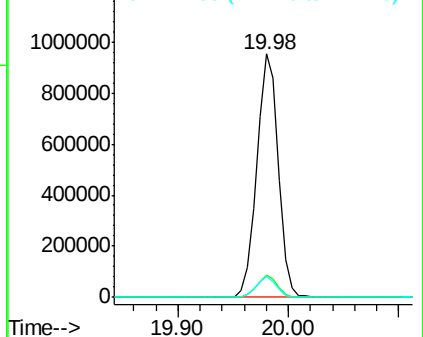
122 8.6 7.7 11.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 16.999 ng

RT: 21.61 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

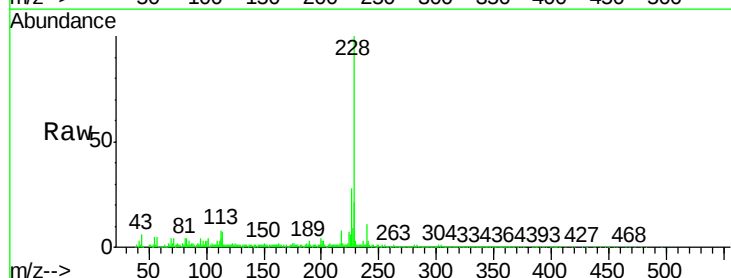
Tgt Ion:228 Resp: 424615

Ion Ratio Lower Upper

228 100

226 28.4 24.0 36.0

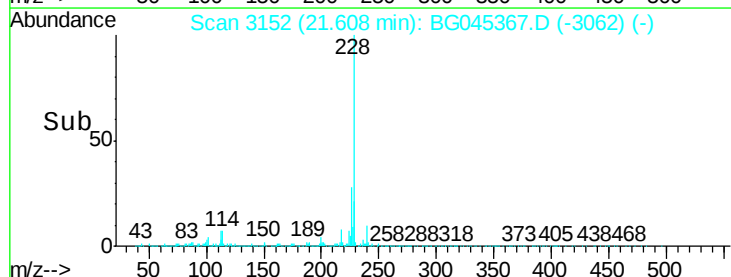
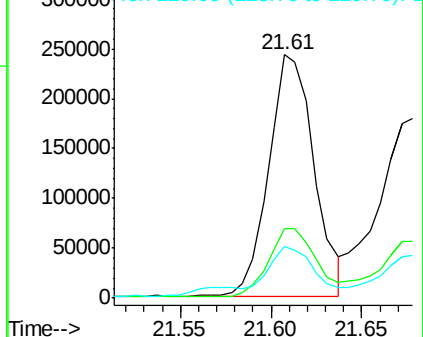
229 21.2 17.5 26.3

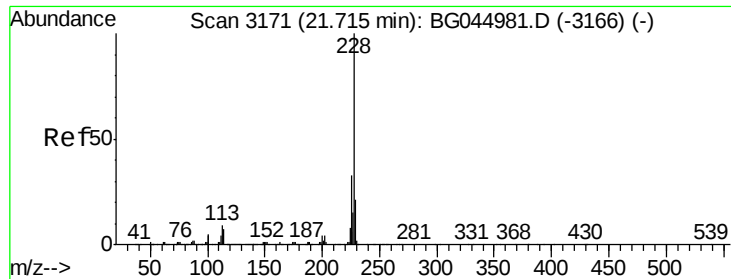


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 14.115 ng

RT: 21.68 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampleId :

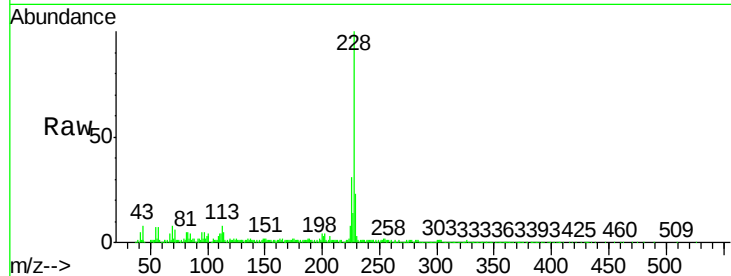
Tot Ion:228 Resp: 338768

Ion Ratio Lower Upper

228 100

226 31.5 26.2 39.4

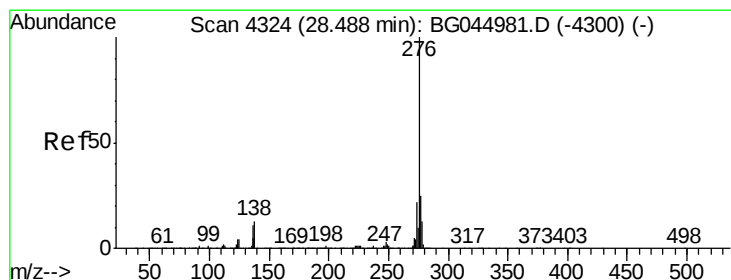
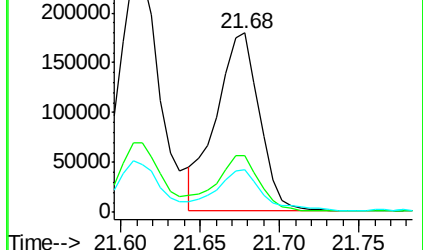
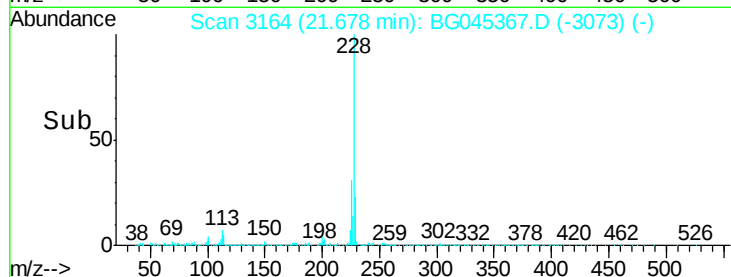
229 23.4 17.0 25.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.516 ng

RT: 28.39 min Scan# 4306

Delta R.T. 0.01 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

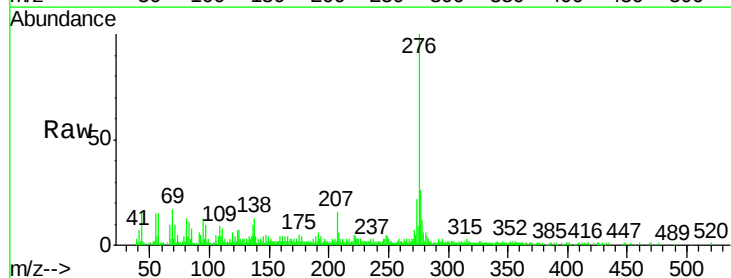
Tgt Ion:276 Resp: 175770

Ion Ratio Lower Upper

276 100

138 12.6 9.6 14.4

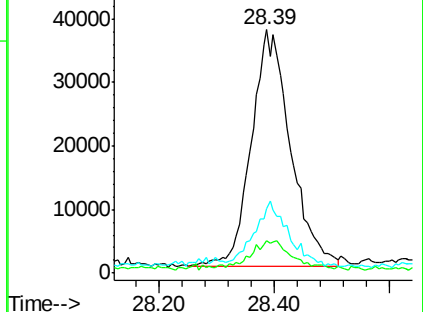
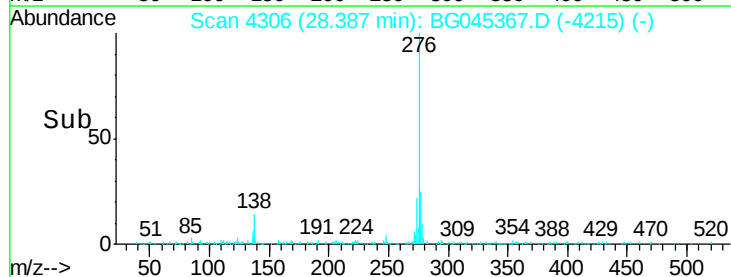
277 22.8 20.6 31.0

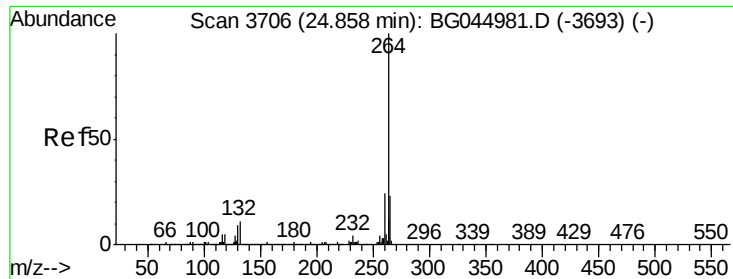


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.80 min Scan# 3695

Delta R.T. 0.01 min

Lab File: BG045367.D

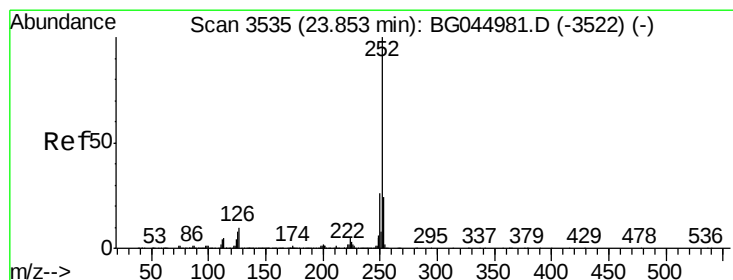
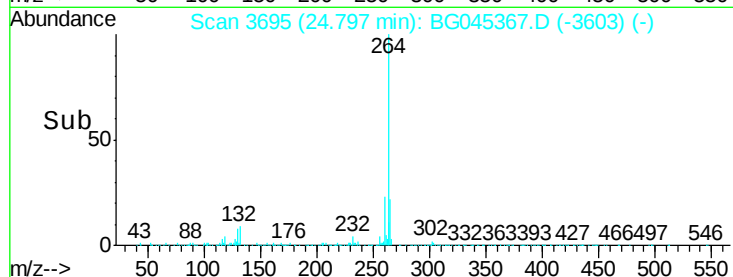
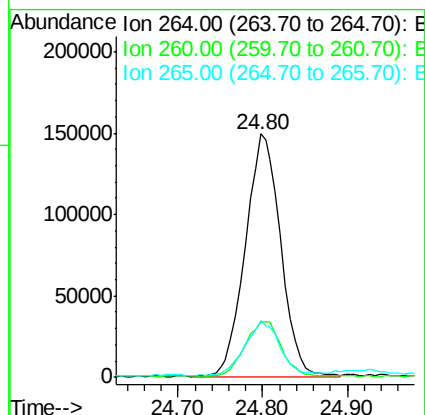
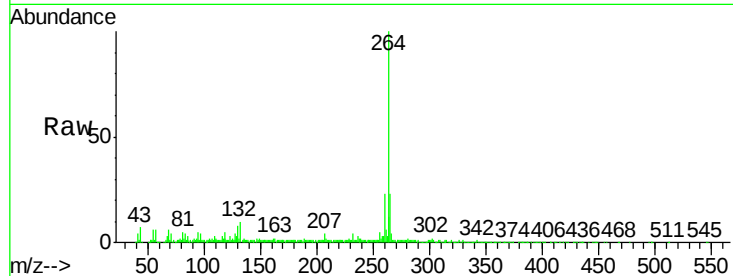
Acq: 13 May 2020 18:35

Instrument :

BNA_G

ClientSampleId :

Tot	Ion:264	Resp:	432966
Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.2	28.8
265	23.1	19.0	28.4



#88

Benzo(b)fluoranthene

Concen: 17.740 ng

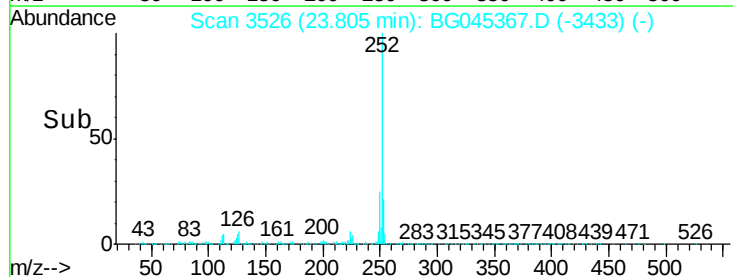
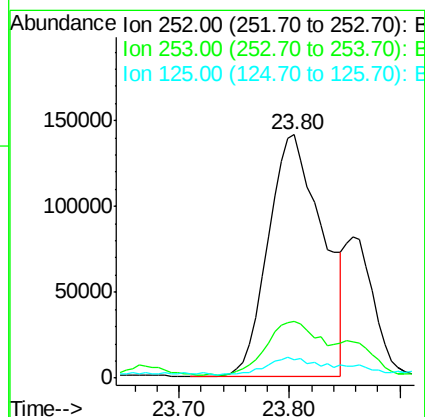
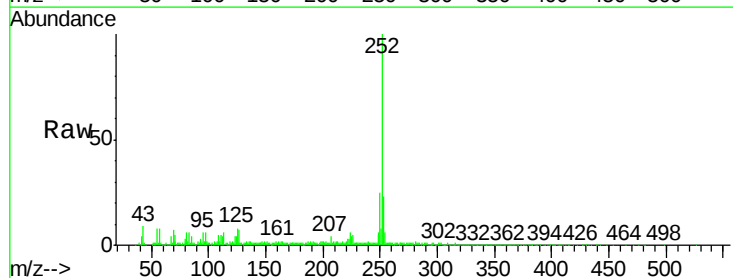
RT: 23.80 min Scan# 3526

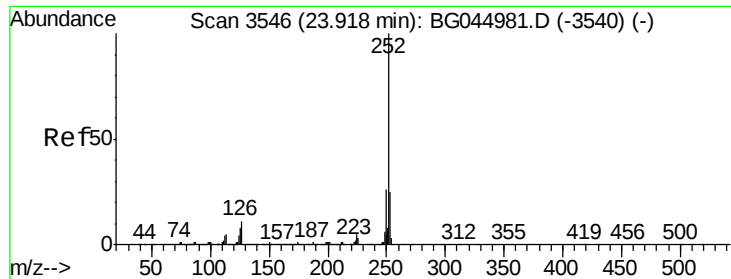
Delta R.T. 0.02 min

Lab File: BG045367.D

Acq: 13 May 2020 18:35

Tgt	Ion:252	Resp:	481124
Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.8	28.2
125	7.5	6.2	9.4

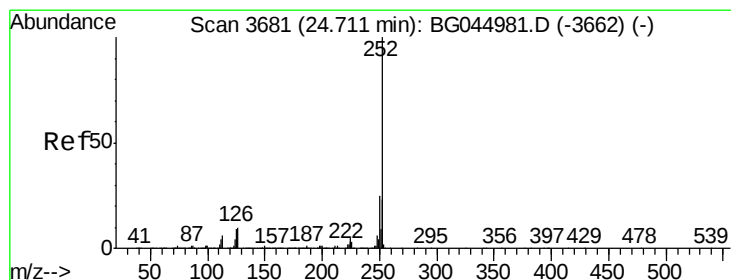
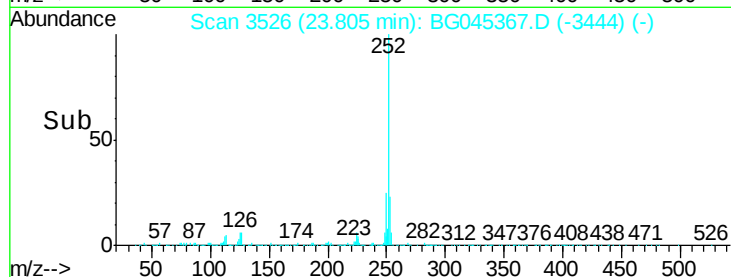
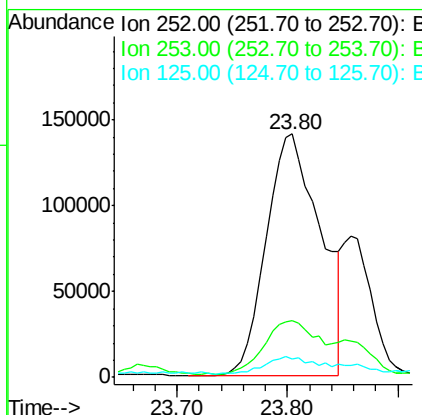
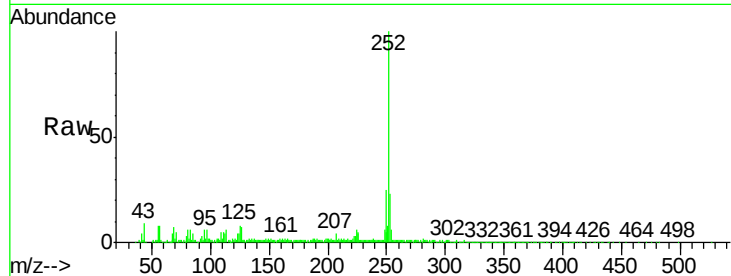




#89
Benzo(k)fluoranthene
Concen: 18.654 ng
RT: 23.80 min Scan# 3526
Delta R.T. -0.05 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

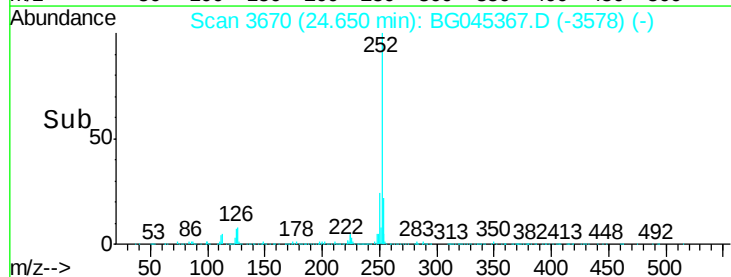
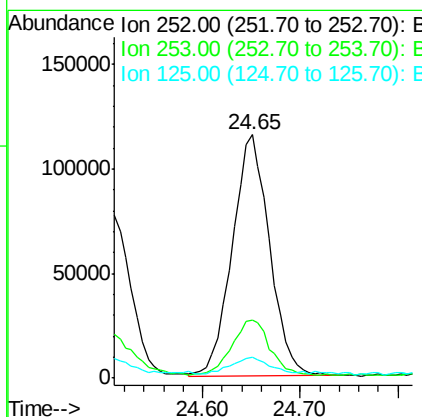
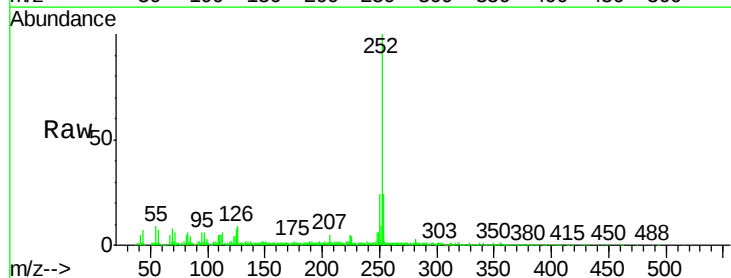
Instrument :
BNA_G
ClientSampleId :

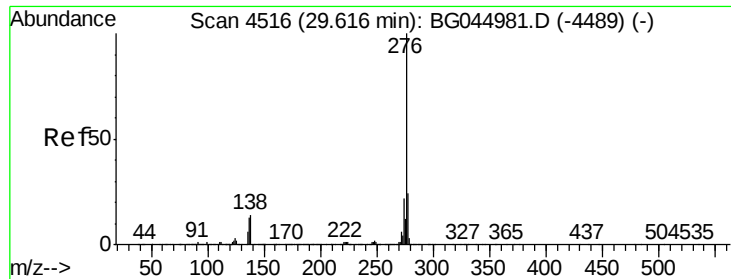
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.2	28.8
125	7.5	5.9	8.9



#90
Benzo(a)pyrene
Concen: 11.980 ng
RT: 24.65 min Scan# 3670
Delta R.T. 0.01 min
Lab File: BG045367.D
Acq: 13 May 2020 18:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.3	27.5
125	8.4	7.0	10.6

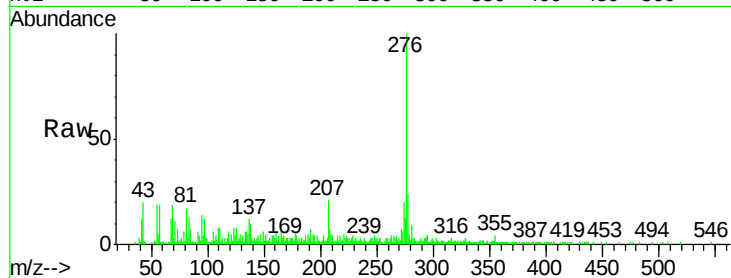




#92
 Benzo(a,h,i)perylene
 Concen: 5.983 ng
 RT: 29.53 min Scan# 4500
 Delta R.T. 0.02 min
 Lab File: BG045367.D
 Acq: 13 May 2020 18:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.3	28.9
138	10.3	11.4	17.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

