

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050620\
 Data File : BG045260.D
 Acq On : 6 May 2020 19:39
 Operator : CG/JU
 Sample : L2515-02 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: May 07 01:05:49 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 06 12:59:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.98	152	127868	20.00	ng	0.00
21) Naphthalene-d8	10.79	136	509789	20.00	ng	0.00
39) Acenaphthene-d10	14.62	164	356202	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	768925	20.00	ng	0.00
76) Chrysene-d12	21.64	240	682128	20.00	ng	0.00
87) Perylene-d12	24.82	264	721248	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.55	112	50661	6.54	ng	0.00
7) Phenol-d6	7.15	99	72972	6.34	ng	0.00
23) Nitrobenzene-d5	9.14	82	48968	4.38	ng	0.00
42) 2,4,6-Tribromophenol	16.12	330	33333	6.06	ng	0.00
45) 2-Fluorobiphenyl	13.25	172	122480	5.04	ng	0.00
79) Terphenyl-d14	19.99	244	190563	6.09	ng	0.00

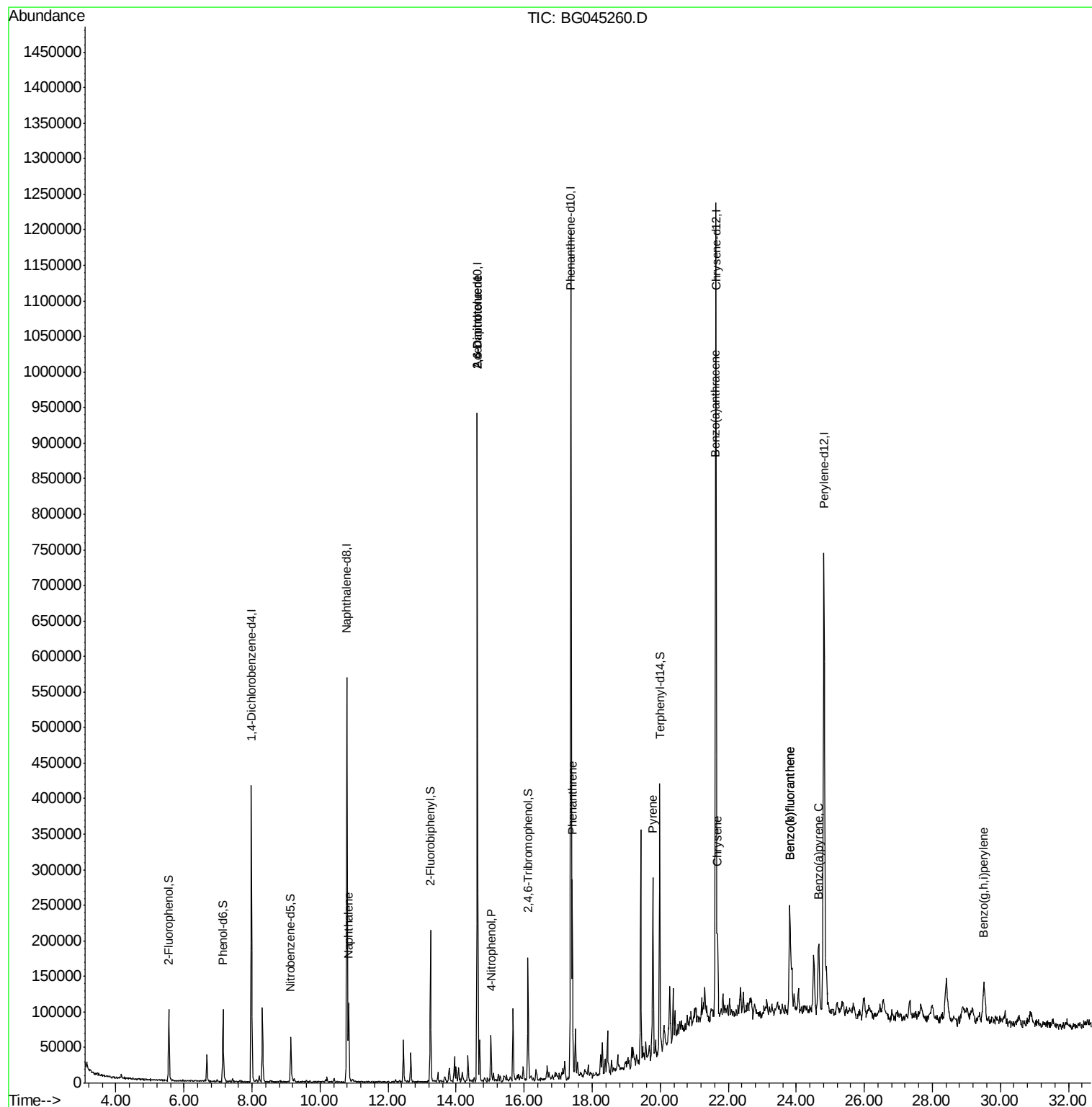
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.15	77	240	Below Cal	#	4
31) Naphthalene	10.84	128	82075	2.943 ng		97
51) 2,6-Dinitrotoluene	14.62	165	47355	7.300 ng	#	26
56) 4-Nitrophenol	15.02	139	15012	2.721 ng	#	5
57) 2,4-Dinitrotoluene	14.62	165	47355	4.995 ng	#	23
69) Atrazine	16.93	200	54	Below Cal	#	35
71) Phenanthrene	17.41	178	171985	4.353 ng		98
74) Di-n-butylphthalate	18.34	149	888	Below Cal	#	76
75) Fluoranthene	19.42	202	202469	Below Cal		96
77) Benzidine	19.65	184	158	Below Cal	#	16
78) Pyrene	19.79	202	169710	3.609 ng		95
81) Benzo(a)anthracene	21.62	228	116674	2.639 ng		99
83) Chrysene	21.69	228	107624	2.534 ng		97
88) Benzo(b)fluoranthene	23.81	252	193078	4.274 ng		99
89) Benzo(k)fluoranthene	23.81	252	193078	4.494 ng		98
90) Benzo(a)pyrene	24.66	252	121902	2.858 ng		98
92) Benzo(a,h,i)perylene	29.52	276	109138	2.533 ng		93

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

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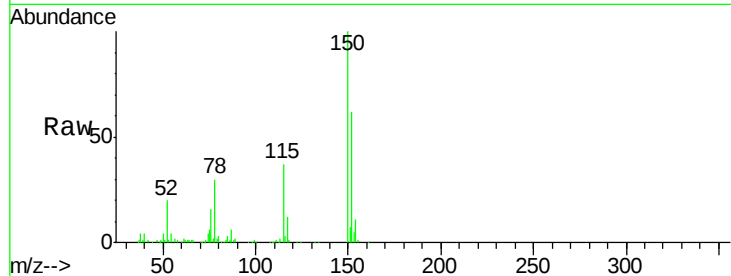


#1

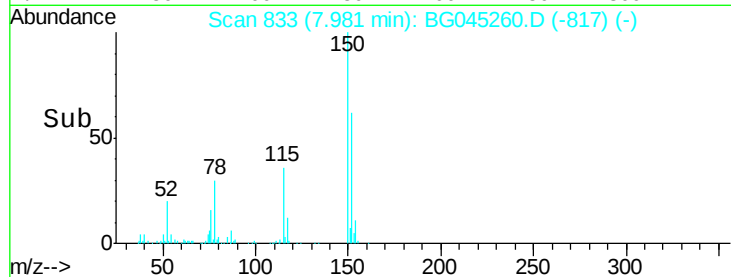
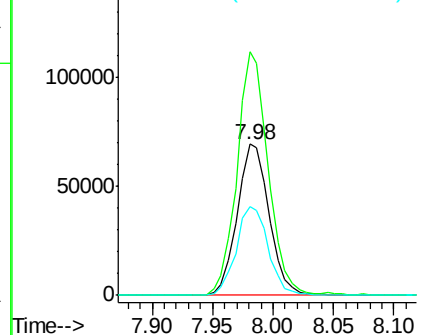
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.98 min Scan# 833
Delta R.T. -0.00 min
Lab File: BG045260.D
Acq: 6 May 2020 19:39

Instrument :
BNA_G
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	123.6	185.4
115	58.8	49.1	73.7



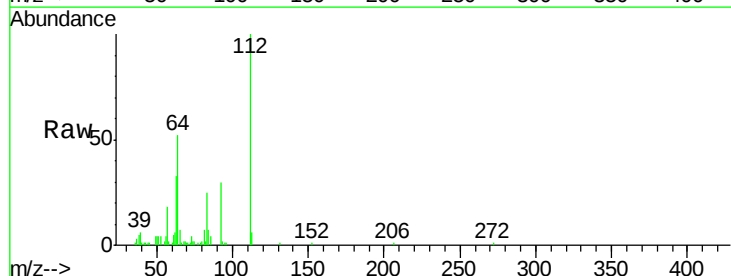
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



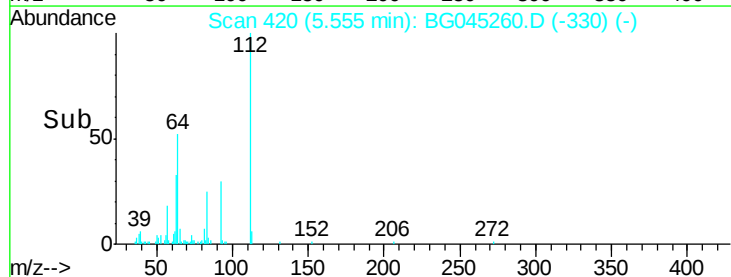
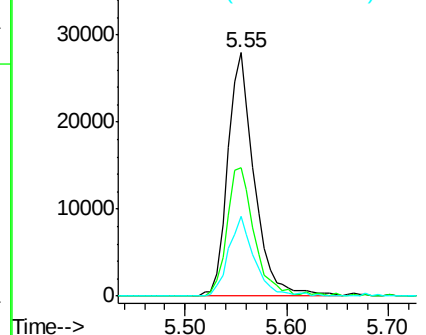
#5

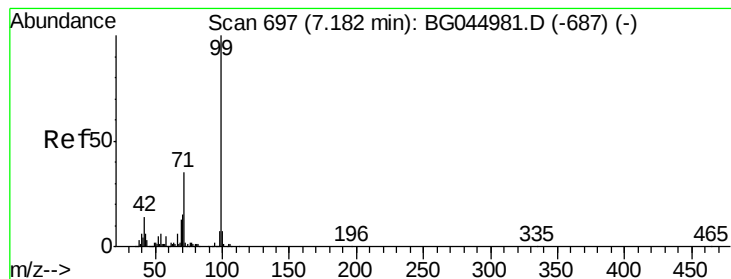
2-Fluorophenol
Concen: 6.541 ng
RT: 5.55 min Scan# 420
Delta R.T. 0.00 min
Lab File: BG045260.D
Acq: 6 May 2020 19:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.5	42.4	63.6
63	32.9	23.1	34.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BG0
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 6.341 ng

RT: 7.15 min Scan# 691

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

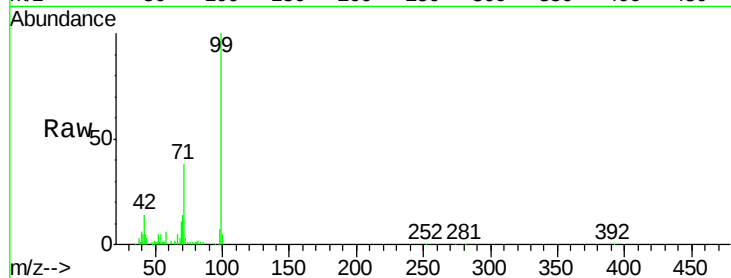
Tot Ion: 99 Resp: 72972

Ion Ratio Lower Upper

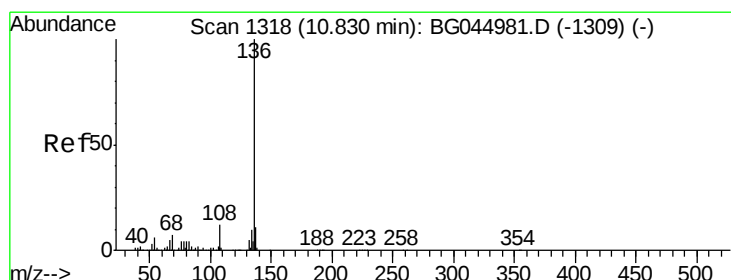
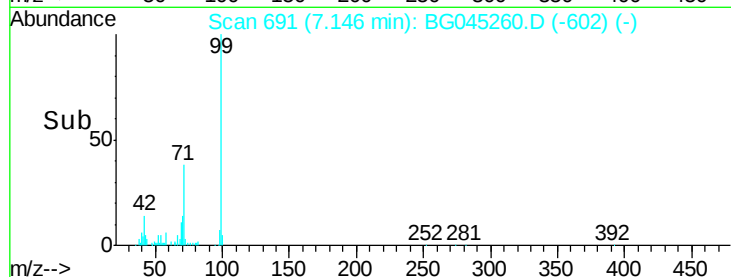
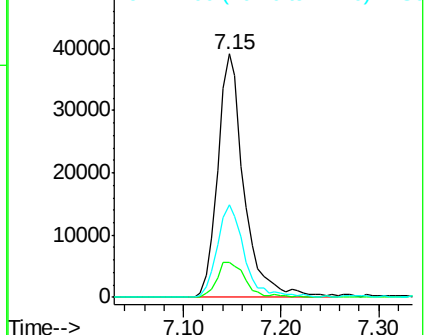
99 100

42 14.3 11.3 16.9

71 38.0 28.3 42.5



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.79 min Scan# 1311

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Tgt Ion: 136 Resp: 509789

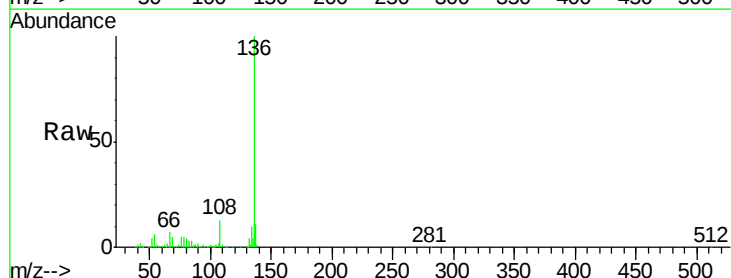
Ion Ratio Lower Upper

136 100

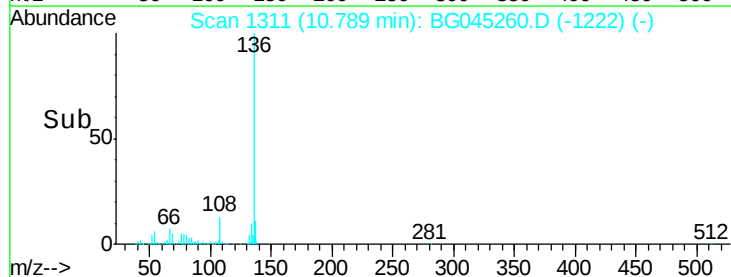
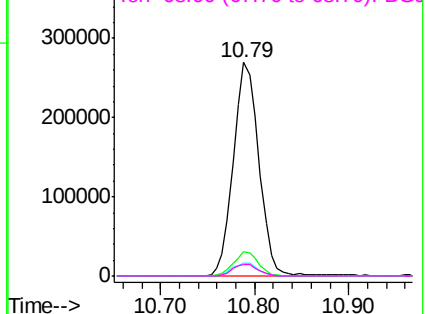
137 11.2 8.6 13.0

54 6.3 4.8 7.2

68 5.3 5.2 7.8



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

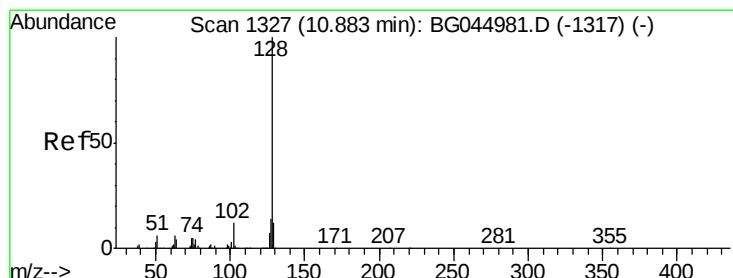
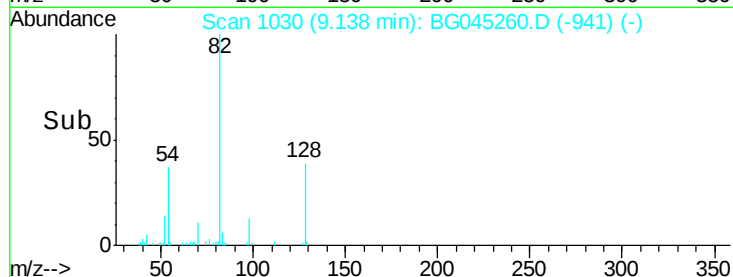
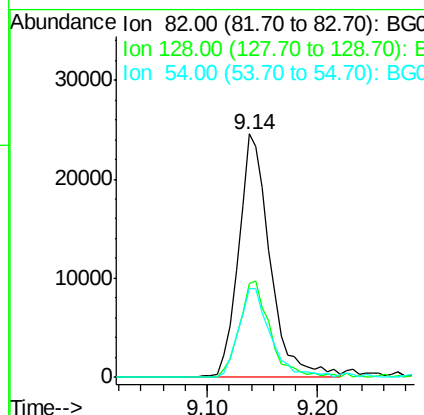
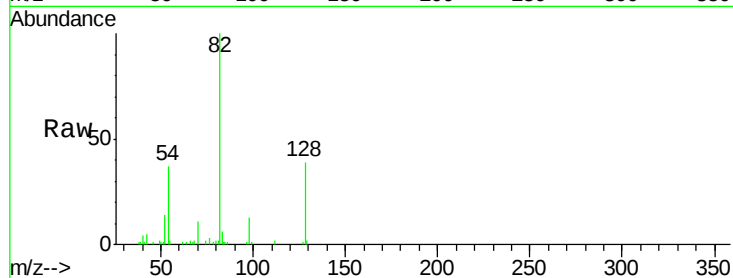




#23
Nitrobenzene-d5
Concen: 4.383 ng
RT: 9.14 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BG045260.D
Acq: 6 May 2020 19:39

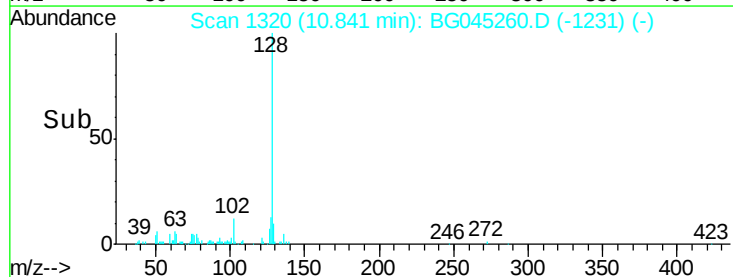
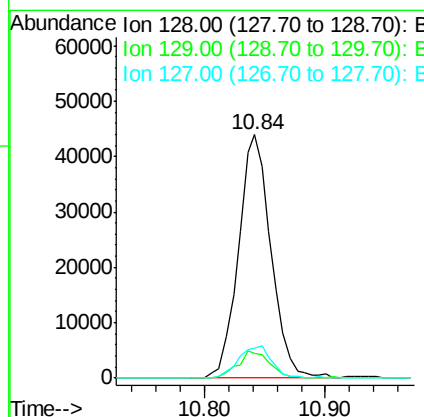
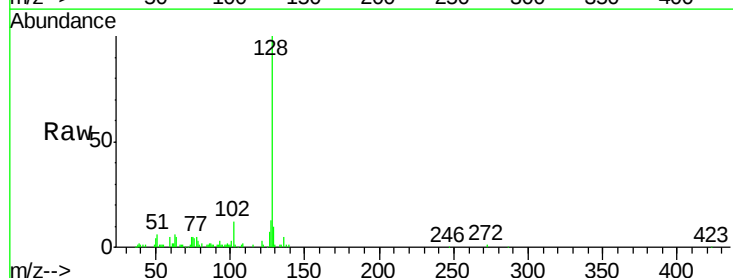
Instrument :
BNA_G
ClientSampleId :

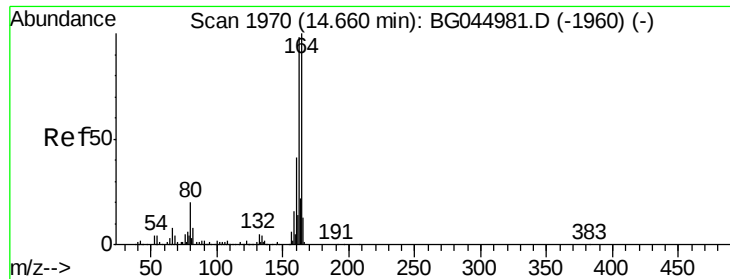
Tot Ion	82	Resp	48968
Ion	Ratio	Lower	Upper
82	100		
128	38.7	33.0	49.4
54	36.6	30.4	45.6



#31
Naphthalene
Concen: 2.943 ng
RT: 10.84 min Scan# 1320
Delta R.T. -0.00 min
Lab File: BG045260.D
Acq: 6 May 2020 19:39

Tgt Ion	128	Resp	82075
Ion	Ratio	Lower	Upper
128	100		
129	10.2	9.4	14.2
127	12.5	10.8	16.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.62 min Scan# 1964

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

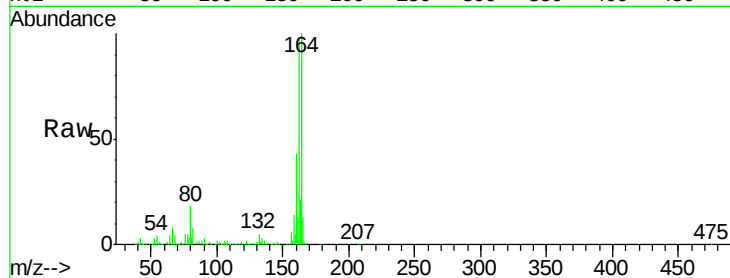
Tot Ion:164 Resp: 356202

Ion Ratio Lower Upper

164 100

162 97.1 78.7 118.1

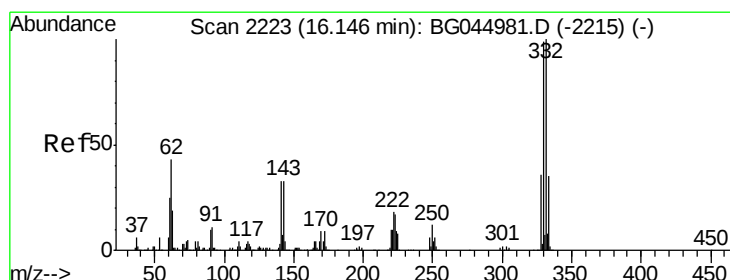
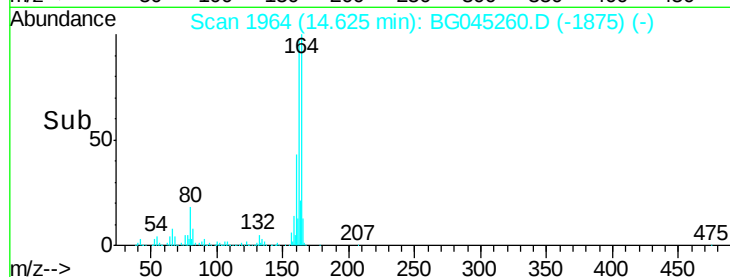
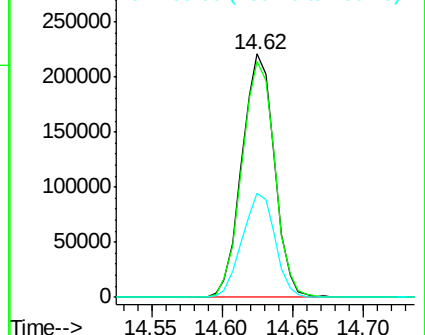
160 42.7 32.8 49.2



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: 6.057 ng

RT: 16.12 min Scan# 2218

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

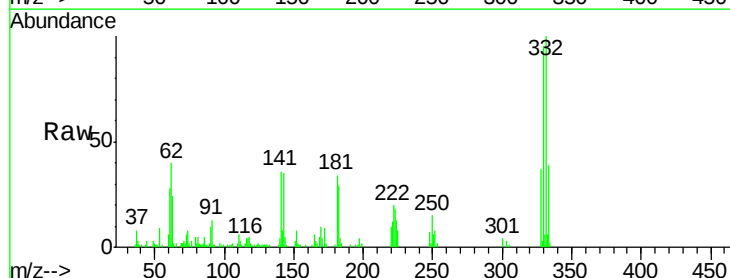
Tgt Ion:330 Resp: 33333

Ion Ratio Lower Upper

330 100

332 102.2 79.1 118.7

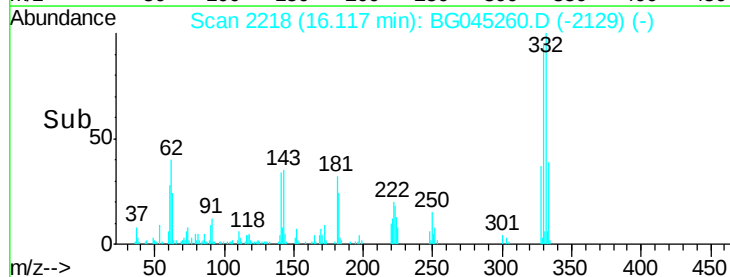
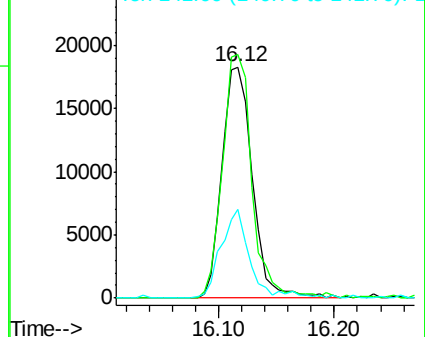
141 36.7 27.1 40.7

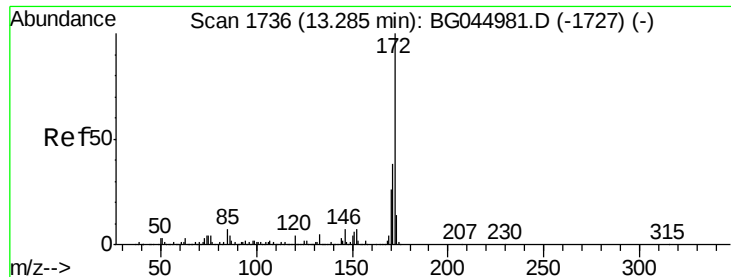


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

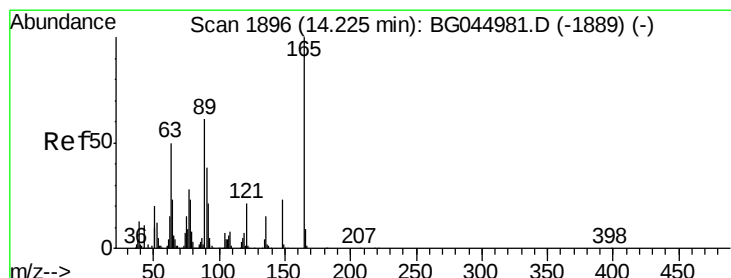
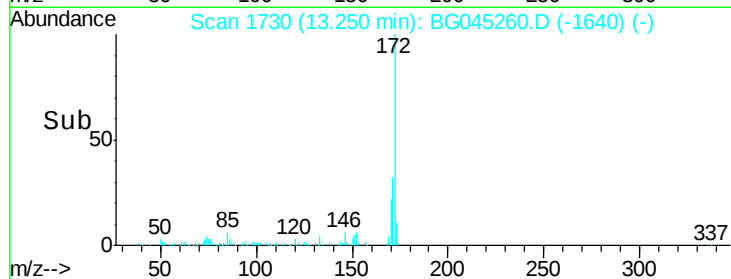
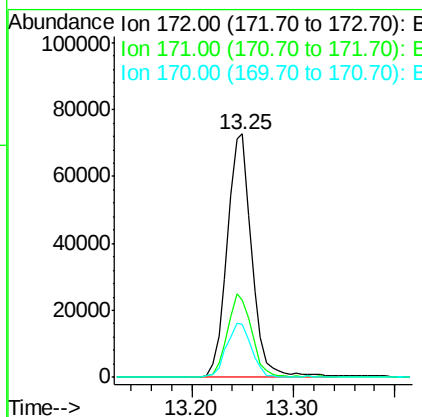
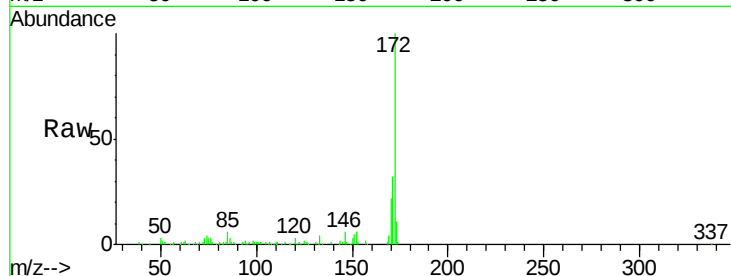




#45
 2-Fluorobiphenyl
 Concen: 5.042 ng
 RT: 13.25 min Scan# 1730
 Delta R.T. 0.00 min
 Lab File: BG045260.D
 Acq: 6 May 2020 19:39

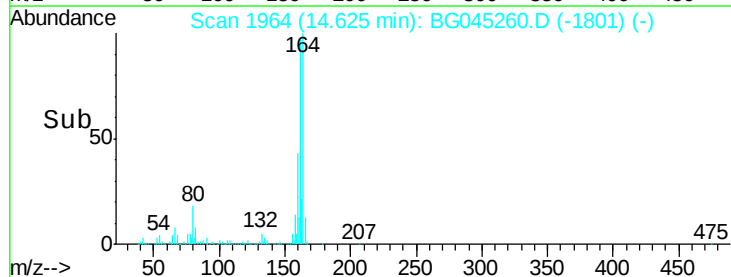
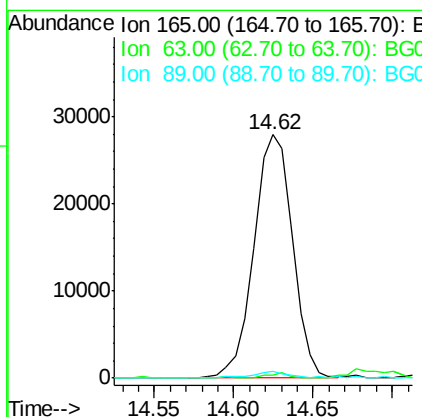
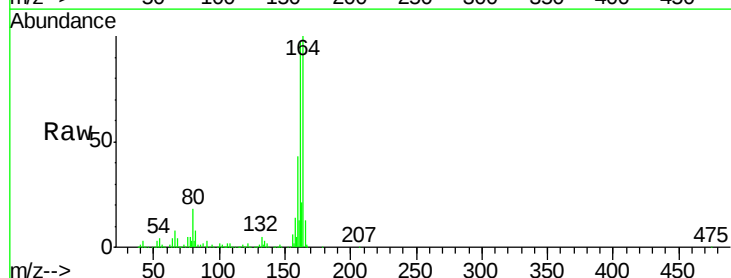
Instrument :
 BNA_G
 ClientSampleId :

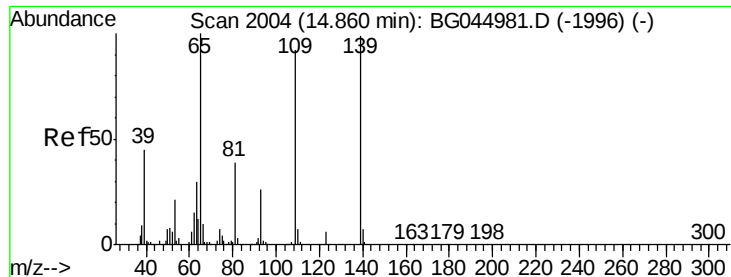
Tot Ion	Ratio	Lower	Upper
172	100		
171	32.0	30.6	46.0
170	21.8	20.5	30.7



#51
 2,6-Dinitrotoluene
 Concen: 7.300 ng
 RT: 14.62 min Scan# 1964
 Delta R.T. 0.43 min
 Lab File: BG045260.D
 Acq: 6 May 2020 19:39

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	40.4	60.6#
89	2.7	49.1	73.7#





#56

4-Nitrophenol

Concen: 2.721 ng

RT: 15.02 min Scan# 2032

Delta R.T. 0.18 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

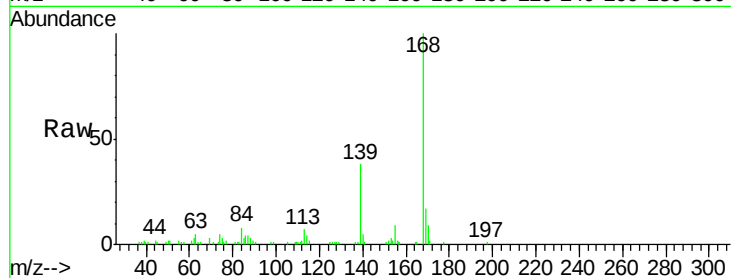
Tot Ion:139 Resp: 15012

Ion Ratio Lower Upper

139 100

109 6.3 73.6 113.6#

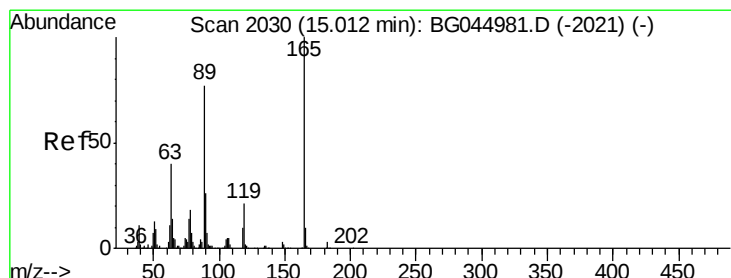
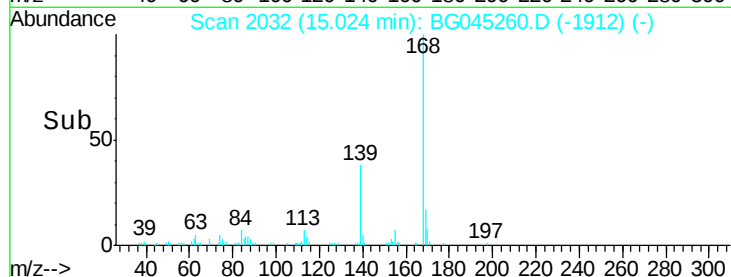
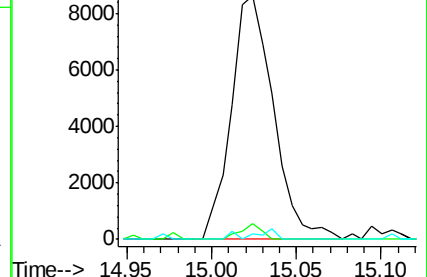
65 2.2 81.2 121.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC



#57

2,4-Dinitrotoluene

Concen: 4.995 ng

RT: 14.62 min Scan# 1964

Delta R.T. -0.36 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Tgt Ion:165 Resp: 47355

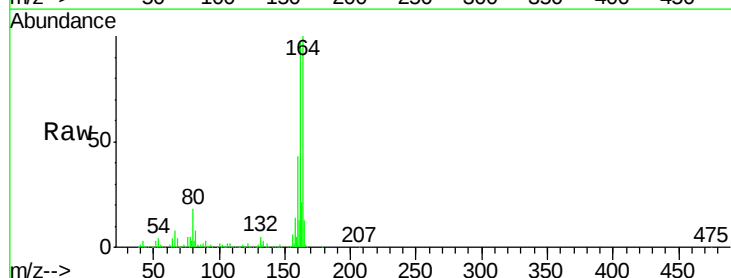
Ion Ratio Lower Upper

165 100

63 1.4 32.2 48.2#

89 2.7 61.7 92.5#

182 0.0 2.0 3.0#

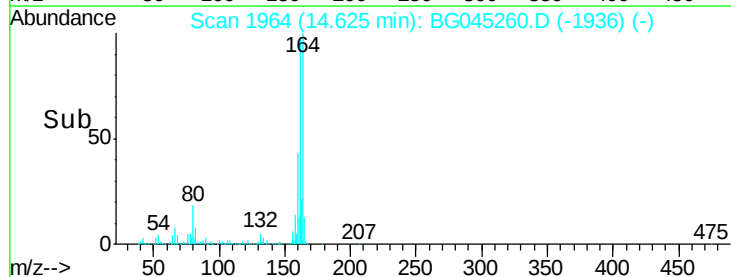
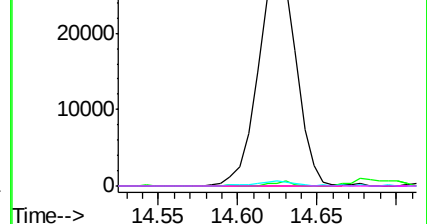


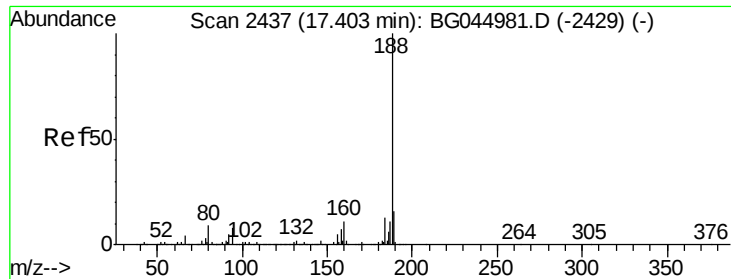
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2432

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

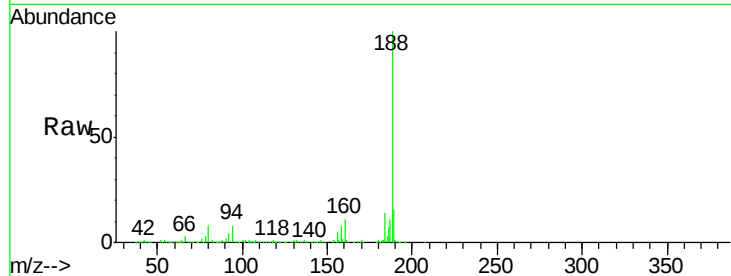
Tot Ion:188 Resp: 768925

Ion Ratio Lower Upper

188 100

94 7.6 6.2 9.4

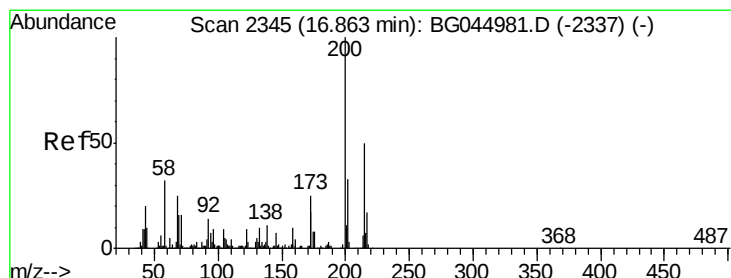
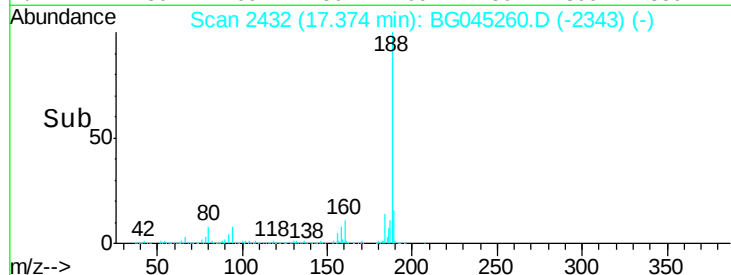
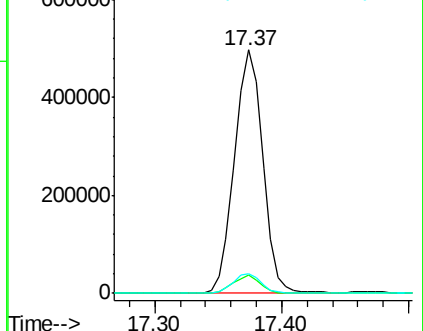
80 8.2 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#69

Atrazine

Concen: Below Cal

RT: 16.93 min Scan# 2357

Delta R.T. 0.10 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

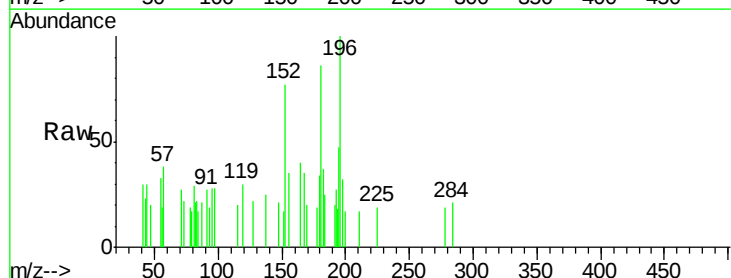
Tgt Ion:200 Resp: 54

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

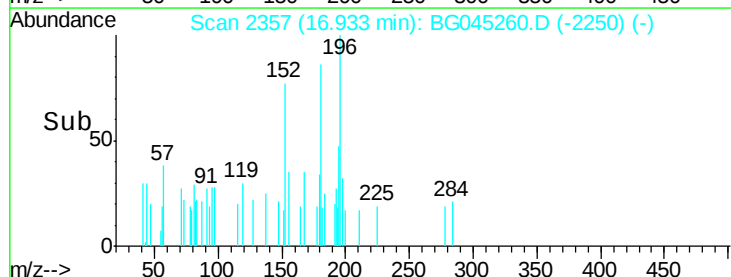
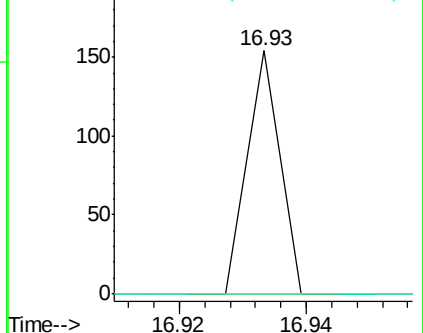
215 0.0 30.0 70.0#

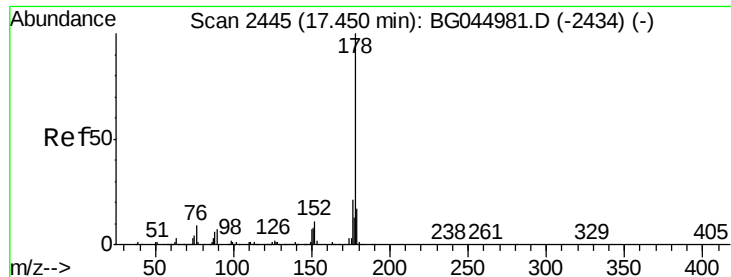


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#71

Phenanthrene

Concen: 4.353 ng

RT: 17.41 min Scan# 2439

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

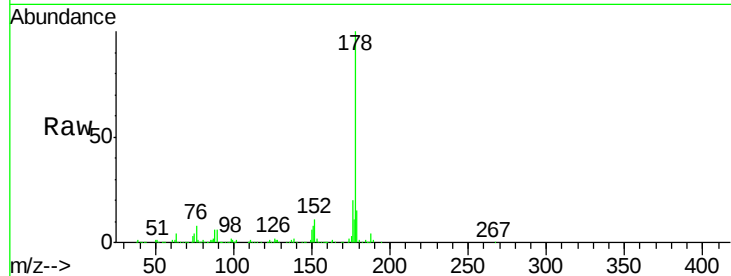
Tot Ion:178 Resp: 171985

Ion Ratio Lower Upper

178 100

176 20.4 16.8 25.2

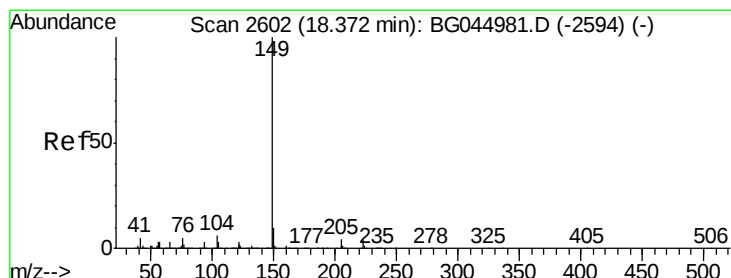
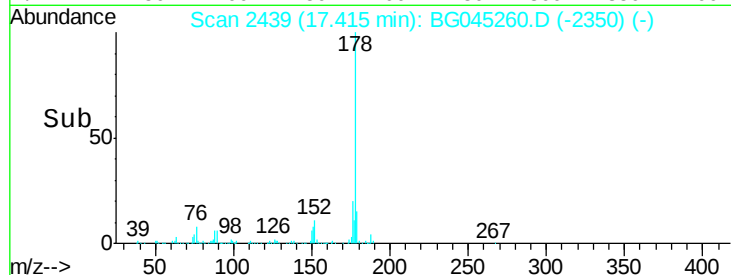
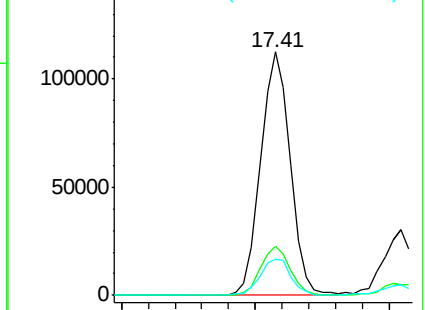
179 14.8 13.2 19.8



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# 2597

Delta R.T. 0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

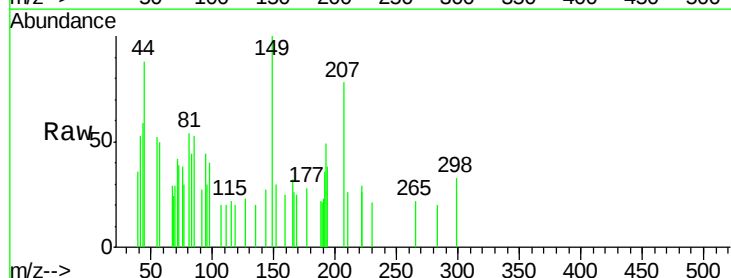
Tgt Ion:149 Resp: 888

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

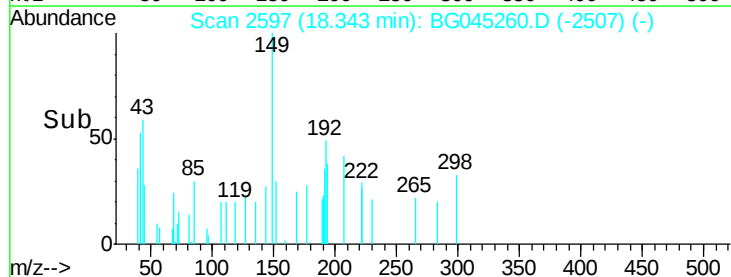
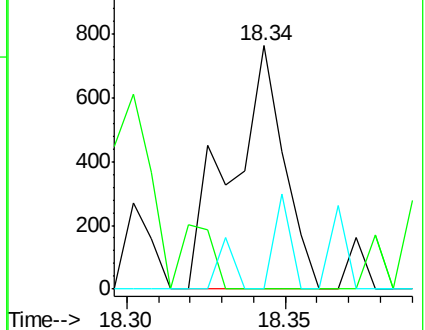
104 0.0 4.8 7.2#

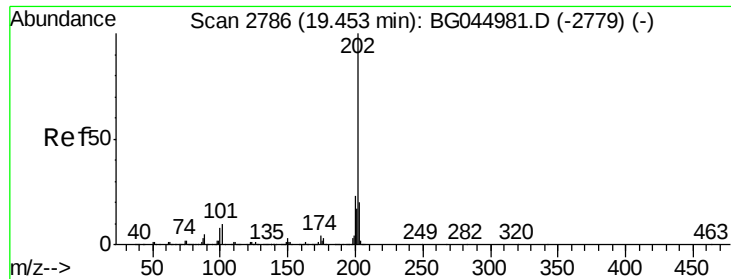


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

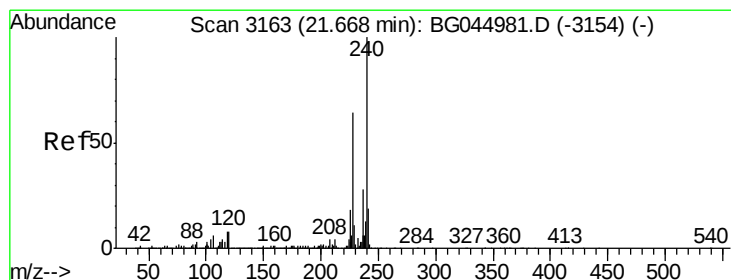
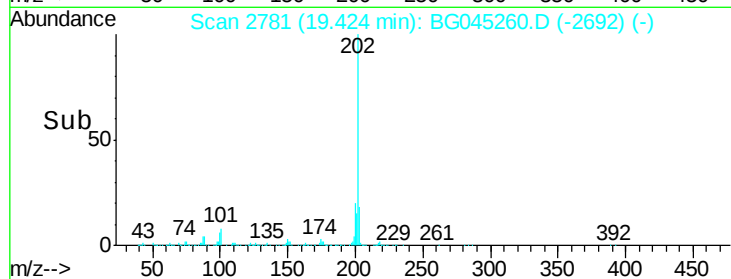
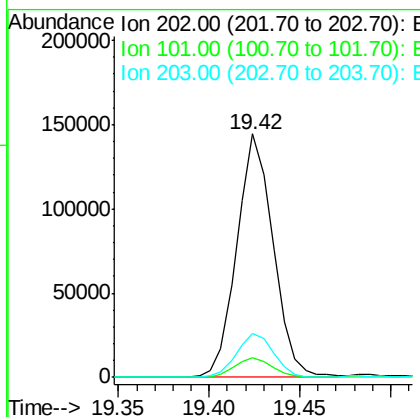
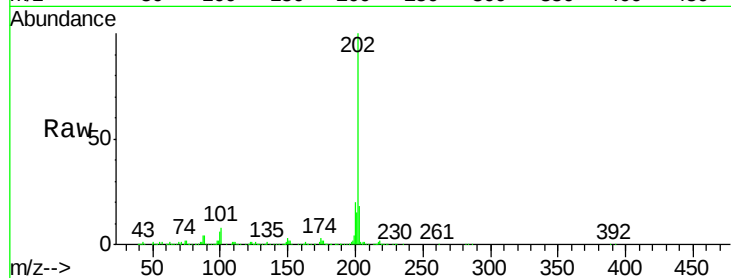




#75
 Fluoranthene
 Concen: Below Cal
 RT: 19.42 min Scan# 2781
 Delta R.T. -0.00 min
 Lab File: BG045260.D
 Acq: 6 May 2020 19:39

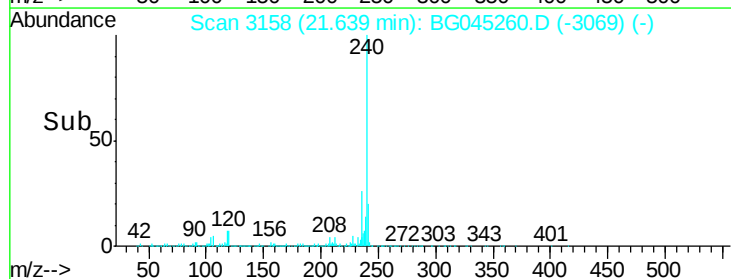
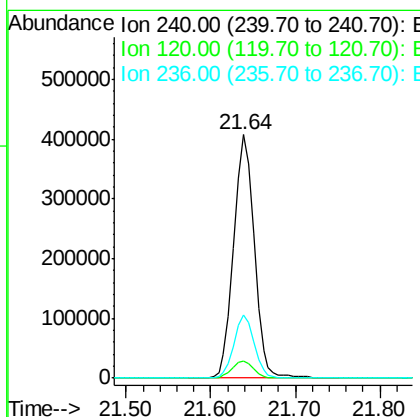
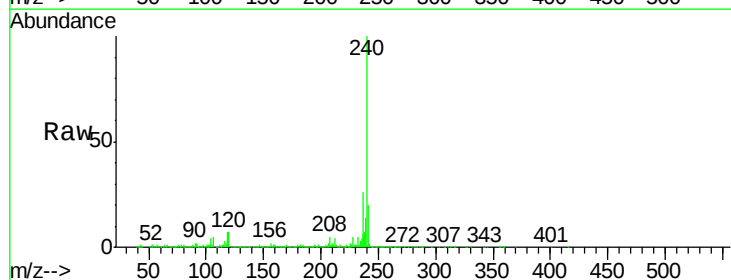
Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:	202	Resp:	202469
Ion Ratio	Lower	Upper	
202	100		
101	8.0	0.0	29.6
203	17.9	0.0	39.7



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.64 min Scan# 3158
 Delta R.T. -0.00 min
 Lab File: BG045260.D
 Acq: 6 May 2020 19:39

Tgt Ion:	240	Resp:	682128
Ion Ratio	Lower	Upper	
240	100		
120	7.2	6.6	10.0
236	25.9	22.2	33.2





#77

Benzidine

Concen: Below Cal

RT: 19.65 min Scan# 2820

Delta R.T. 0.05 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampled :

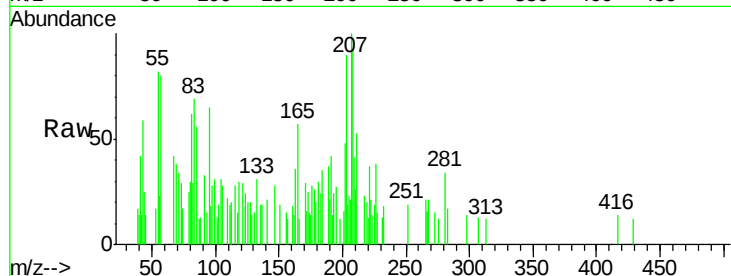
Tot Ion:184 Resp: 158

Ion Ratio Lower Upper

184 100

185 0.0 12.6 19.0#

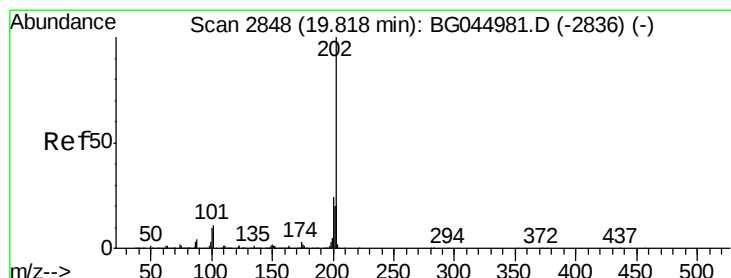
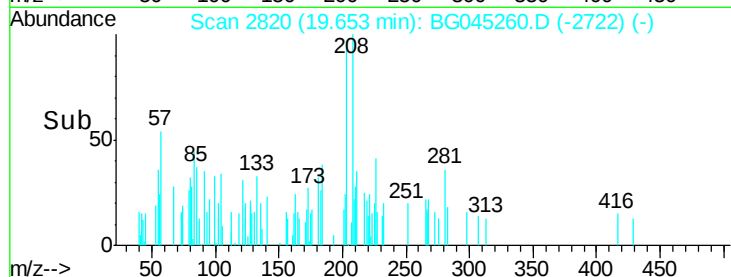
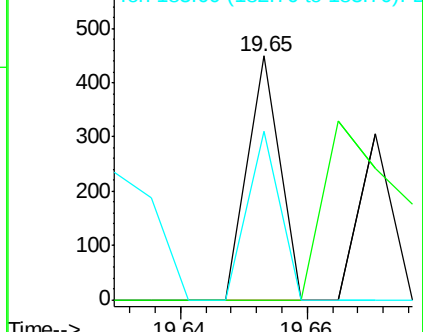
183 69.3 11.3 16.9#



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: 3.609 ng

RT: 19.79 min Scan# 2843

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

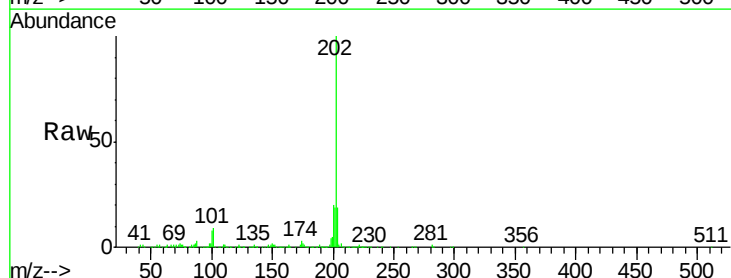
Tgt Ion:202 Resp: 169710

Ion Ratio Lower Upper

202 100

200 20.5 19.0 28.6

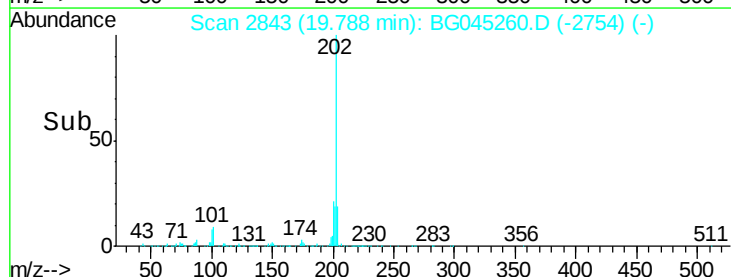
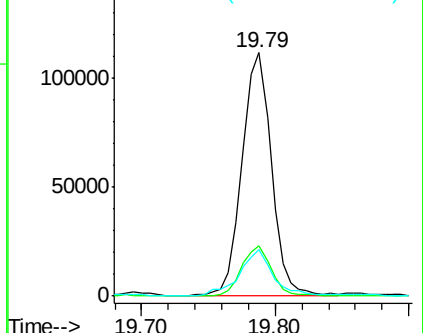
203 19.0 16.1 24.1

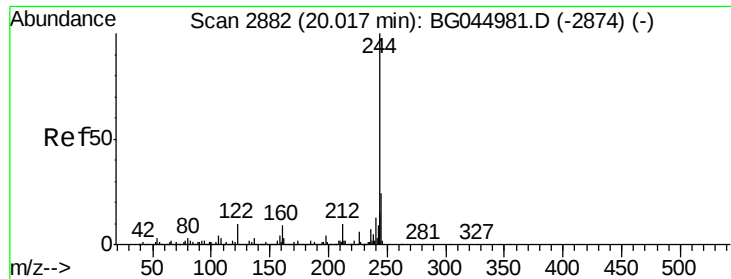


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 6.089 ng

RT: 19.99 min Scan# 2877

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

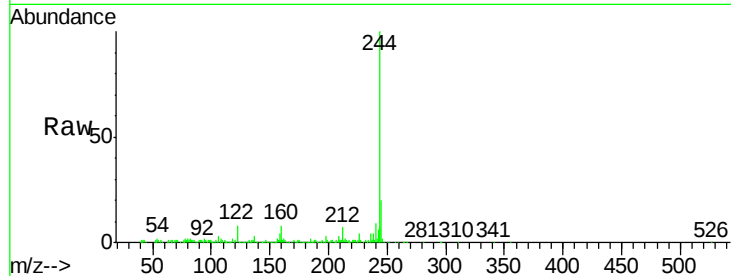
Tot Ion:244 Resp: 190563

Ion Ratio Lower Upper

244 100

212 7.4 7.9 11.9#

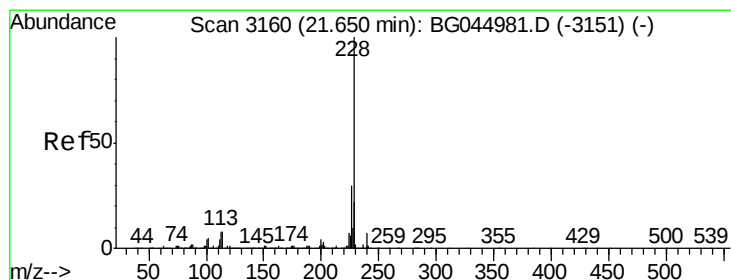
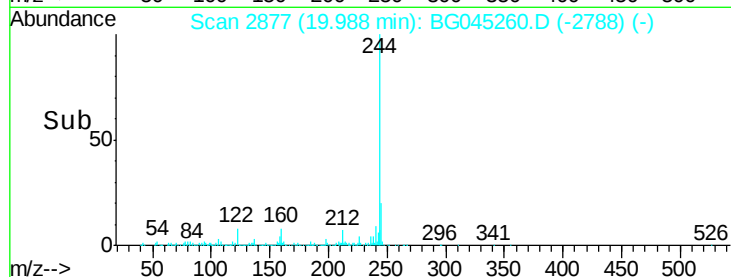
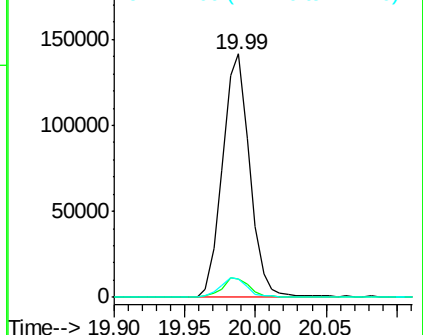
122 7.5 7.7 11.5#



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: 2.639 ng

RT: 21.62 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

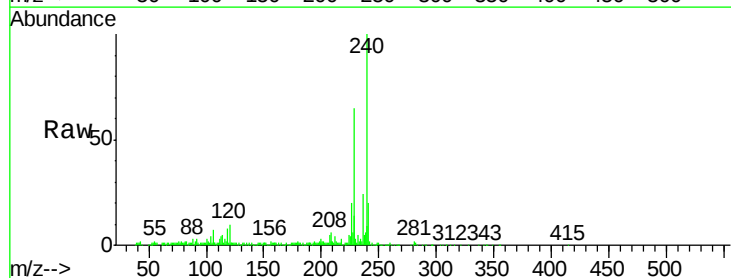
Tgt Ion:228 Resp: 116674

Ion Ratio Lower Upper

228 100

226 31.2 24.0 36.0

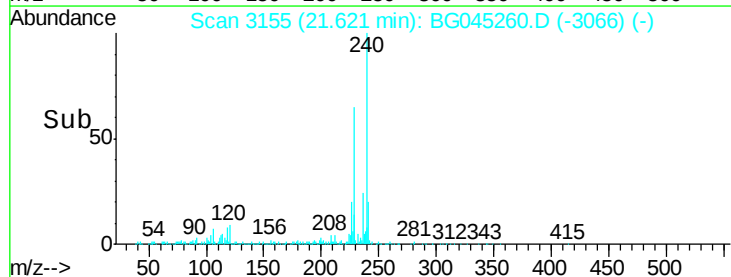
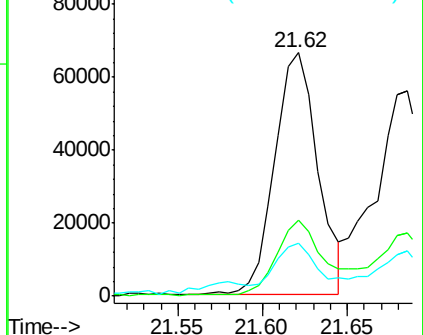
229 21.8 17.5 26.3

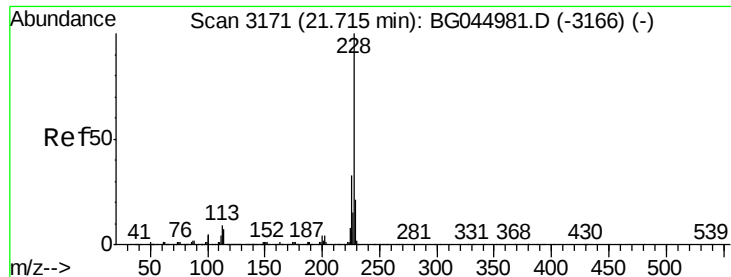


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 2.534 ng

RT: 21.69 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

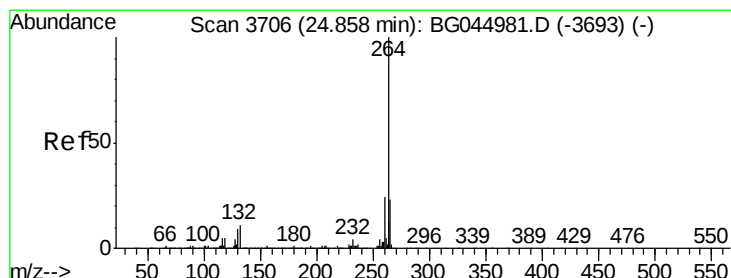
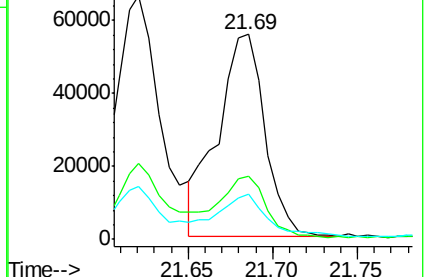
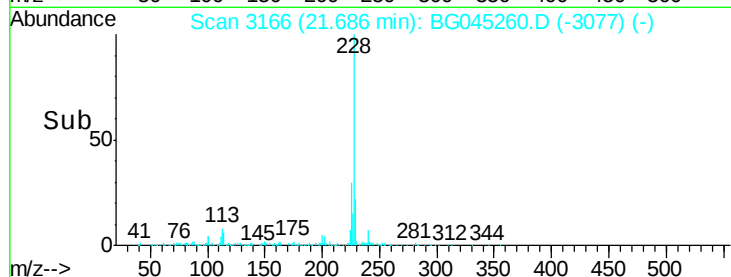
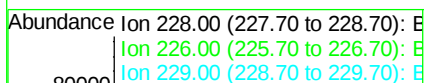
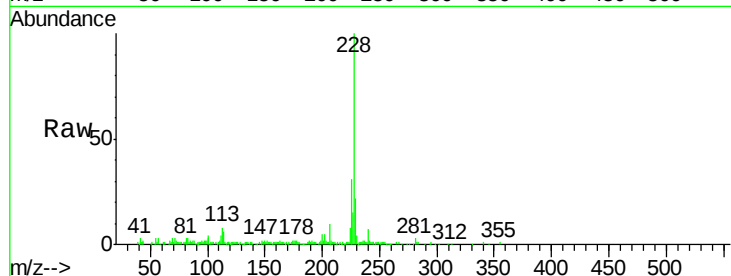
Tot Ion:228 Resp: 107624

Ion Ratio Lower Upper

228 100

226 30.8 26.2 39.4

229 22.2 17.0 25.6



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.82 min Scan# 3699

Delta R.T. 0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

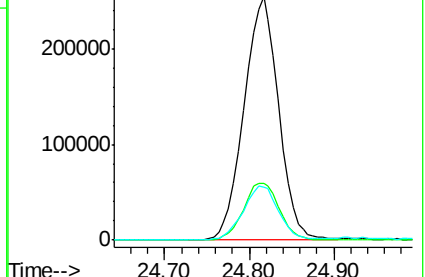
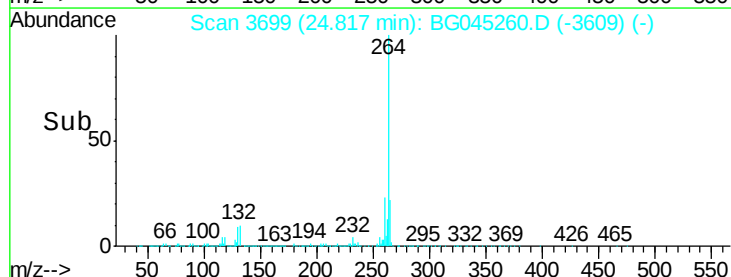
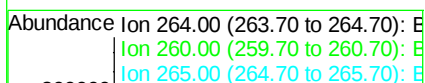
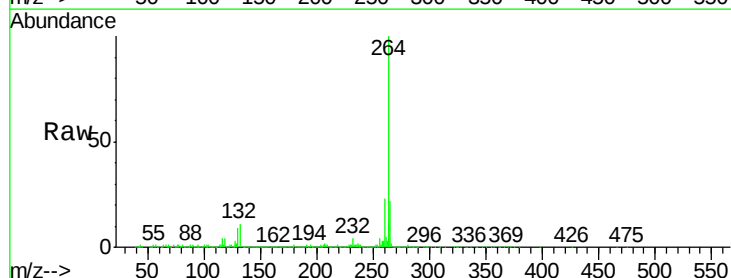
Tgt Ion:264 Resp: 721248

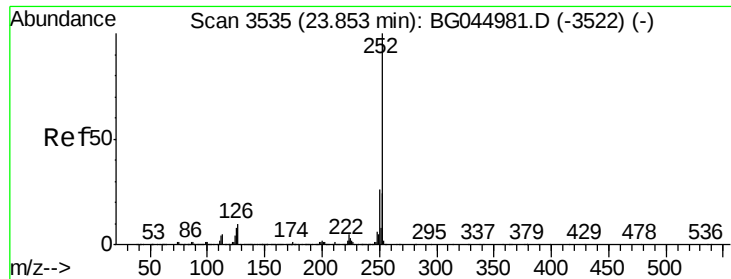
Ion Ratio Lower Upper

264 100

260 23.2 19.2 28.8

265 21.7 19.0 28.4





#88

Benzo(b)fluoranthene

Concen: 4.274 ng

RT: 23.81 min Scan# 3528

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

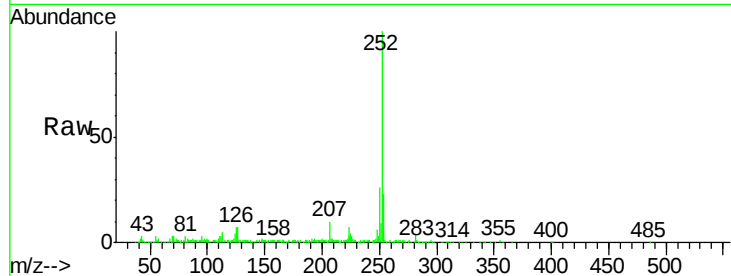
Tot Ion:252 Resp: 193078

Ion Ratio Lower Upper

252 100

253 22.9 18.8 28.2

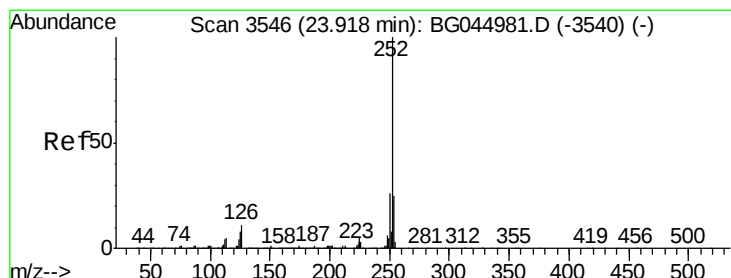
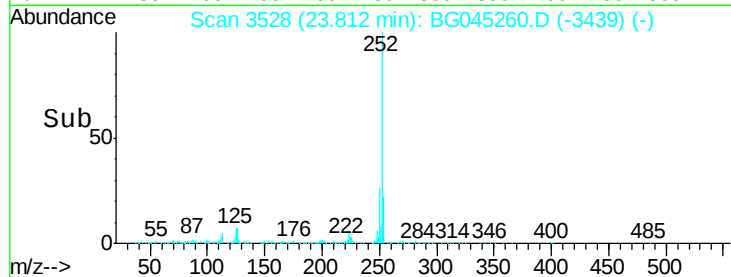
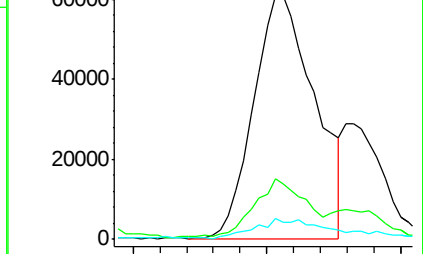
125 7.2 6.2 9.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 4.494 ng

RT: 23.81 min Scan# 3528

Delta R.T. -0.07 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

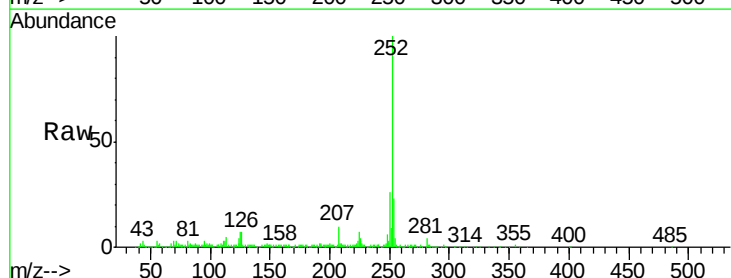
Tgt Ion:252 Resp: 193078

Ion Ratio Lower Upper

252 100

253 22.9 19.2 28.8

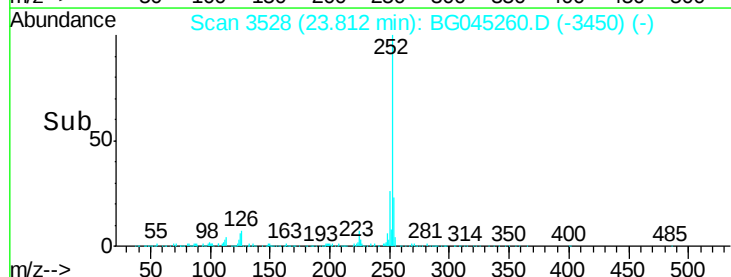
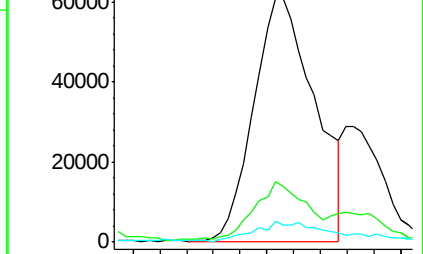
125 7.2 5.9 8.9

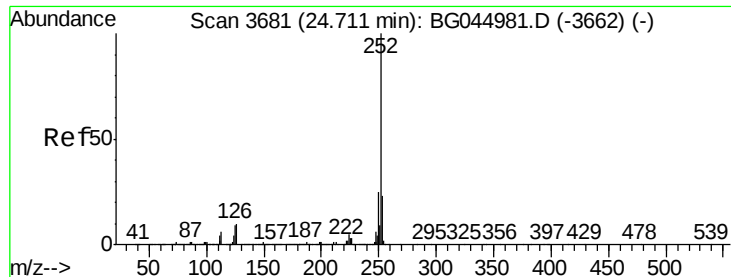


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 2.858 ng

RT: 24.66 min Scan# 3673

Delta R.T. -0.00 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

Instrument :

BNA_G

ClientSampleId :

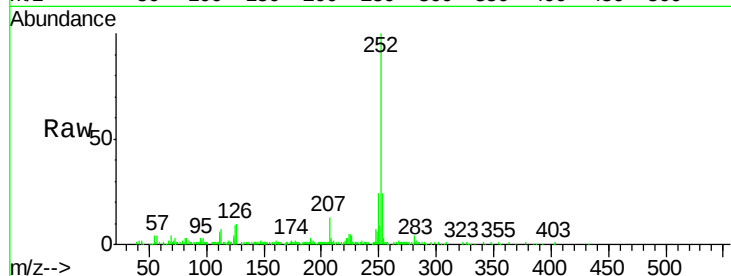
Tot Ion:252 Resp: 121902

Ion Ratio Lower Upper

252 100

253 23.9 18.3 27.5

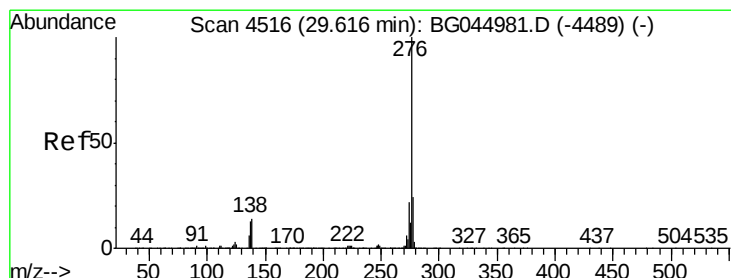
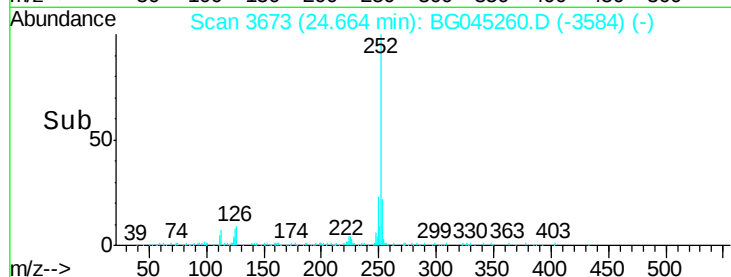
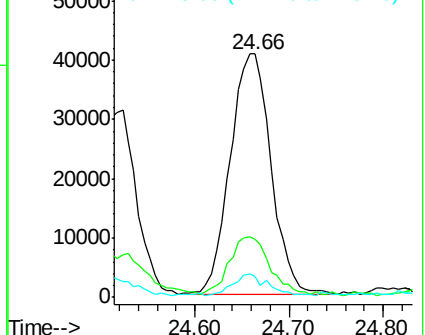
125 8.6 7.0 10.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 2.533 ng

RT: 29.52 min Scan# 4500

Delta R.T. -0.03 min

Lab File: BG045260.D

Acq: 6 May 2020 19:39

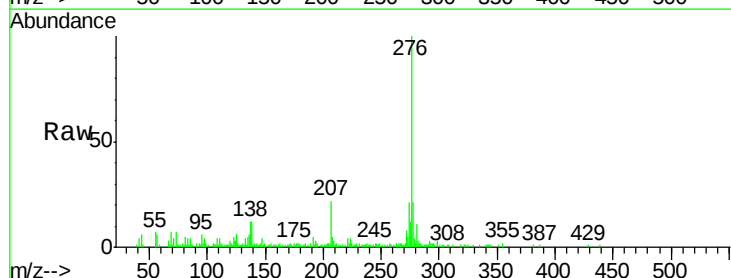
Tgt Ion:276 Resp: 109138

Ion Ratio Lower Upper

276 100

277 20.5 19.3 28.9

138 11.7 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

