

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050720\
 Data File : BG045287.D
 Acq On : 8 May 2020 2:39
 Operator : CG/JU
 Sample : L2498-01 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: May 08 03:47:29 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 07 12:51:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.98	152	79755	20.00	ng	0.00
21) Naphthalene-d8	10.79	136	312977	20.00	ng	0.00
39) Acenaphthene-d10	14.63	164	221548	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	477870	20.00	ng	0.00
76) Chrysene-d12	21.63	240	439628	20.00	ng	0.00
87) Perylene-d12	24.81	264	485192	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.55	112	55205	11.43	ng	0.00
7) Phenol-d6	7.15	99	82562	11.50	ng	0.00
23) Nitrobenzene-d5	9.14	82	53107	7.74	ng	0.00
42) 2,4,6-Tribromophenol	16.11	330	37502	10.96	ng	0.00
45) 2-Fluorobiphenyl	13.25	172	134036	8.87	ng	0.00
79) Terphenyl-d14	19.98	244	214169	10.62	ng	0.00

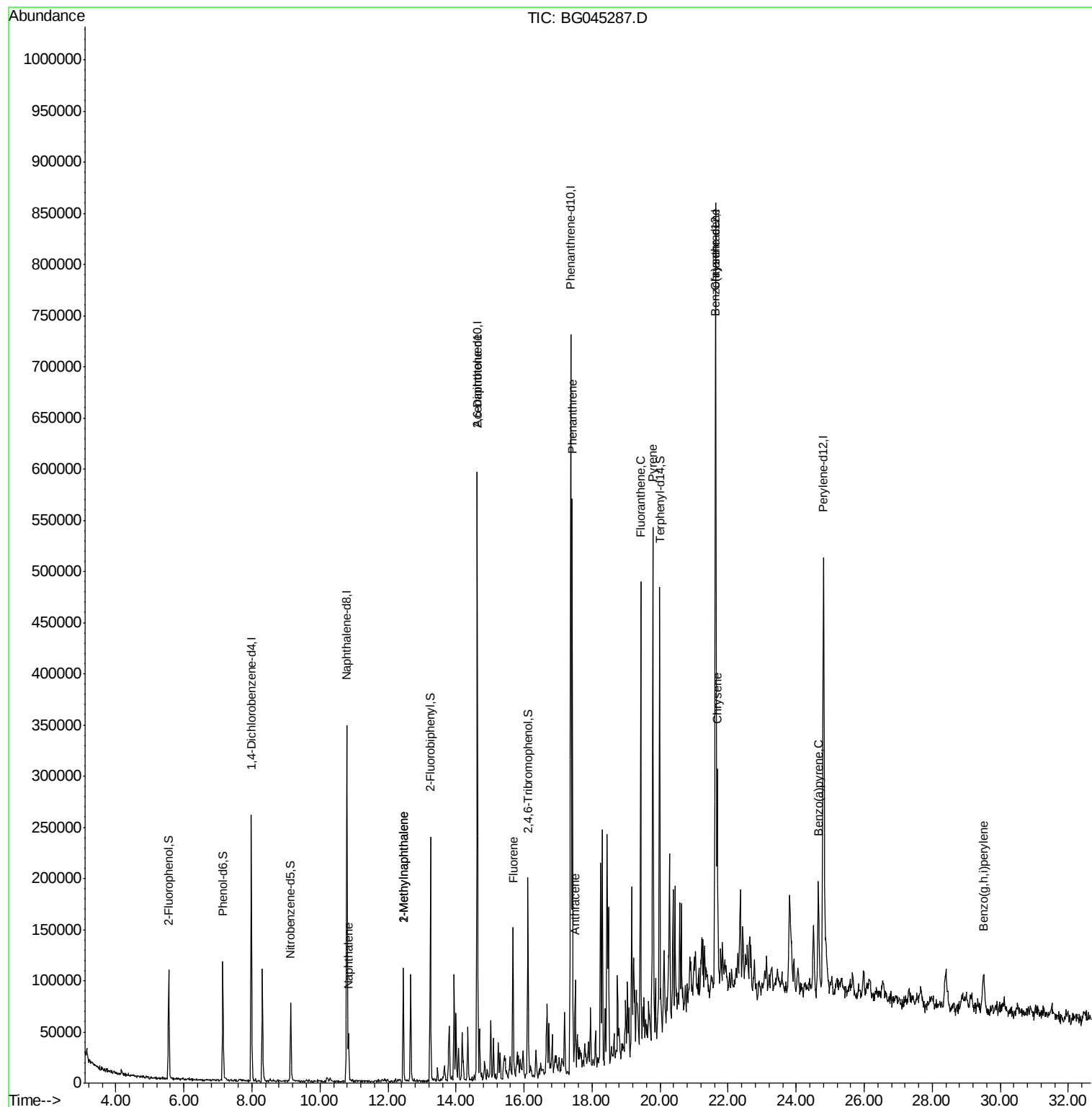
Target Compounds				Qvalue		
9) Benzaldehyde	7.13	77	290	Below Cal	#	45
31) Naphthalene	10.84	128	39168	2.288	ng	98
37) 2-Methylnaphthalene	12.45	142	56808	4.275	ng	98
38) 1-Methylnaphthalene	12.45	142	56808	4.528	ng	96
51) 2,6-Dinitrotoluene	14.63	165	29801	7.386	ng	# 25
58) Fluorene	15.67	166	64143	3.798	ng	97
69) Atrazine	17.15	200	94	Below Cal	#	35
71) Phenanthrene	17.41	178	361938	14.739	ng	98
72) Anthracene	17.50	178	60213	2.444	ng	95
74) Di-n-butylphthalate	18.34	149	929	Below Cal	#	76
75) Fluoranthene	19.43	202	277568	3.994	ng	97
77) Benzidine	19.58	184	364	Below Cal	#	62
78) Pyrene	19.78	202	344425	11.364	ng	96
81) Benzo(a)anthracene	21.62	228	158049	5.547	ng	98
83) Chrysene	21.68	228	149273	5.452	ng	97
90) Benzo(a)pyrene	24.65	252	120590	4.202	ng	96
92) Benzo(a,h,i)perylene	29.51	276	70832	2.443	ng	# 95

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

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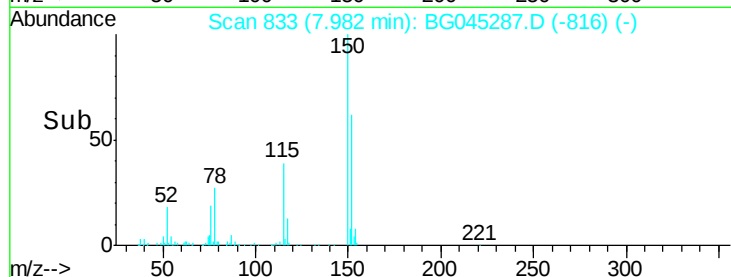
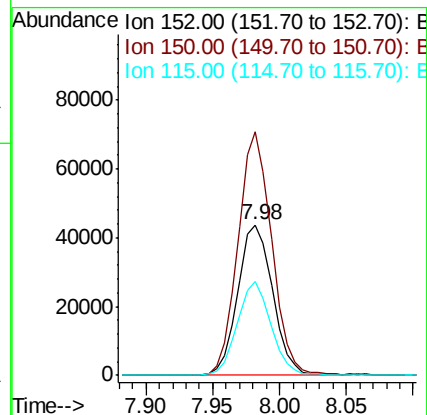
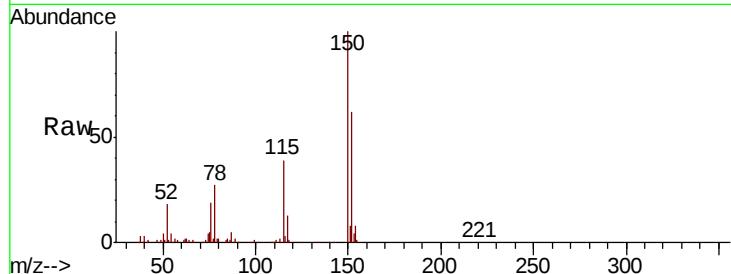


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.98 min Scan# 833
Delta R.T. -0.00 min
Lab File: BG045287.D
Acq: 8 May 2020 2:39

Instrument :
BNA_G
ClientSampleId :

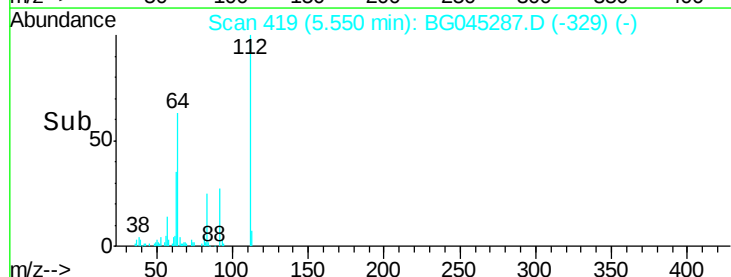
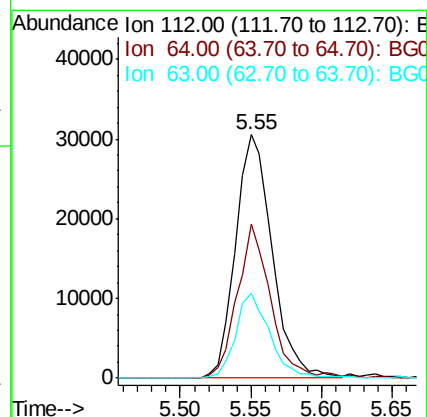
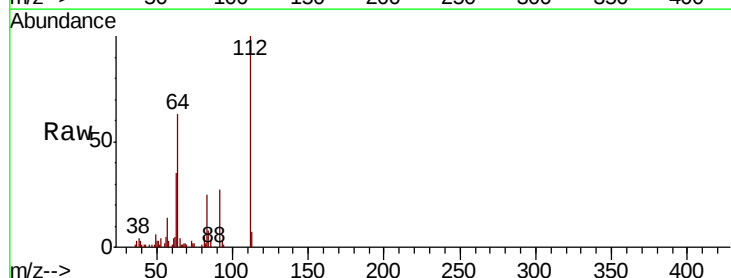
Tot Ion	Ratio	Lower	Upper
152	100		
150	161.9	123.6	185.4
115	62.8	49.1	73.7



#5

2-Fluorophenol
Concen: 11.428 ng
RT: 5.55 min Scan# 419
Delta R.T. -0.00 min
Lab File: BG045287.D
Acq: 8 May 2020 2:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	42.4	63.6
63	34.7	23.1	34.7#





#7

Phenol-d6

Concen: 11.503 ng

RT: 7.15 min Scan# 691

Delta R.T. -0.00 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

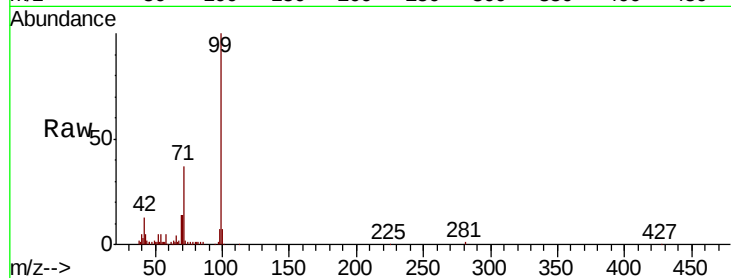
Tot Ion: 99 Resp: 82562

Ion Ratio Lower Upper

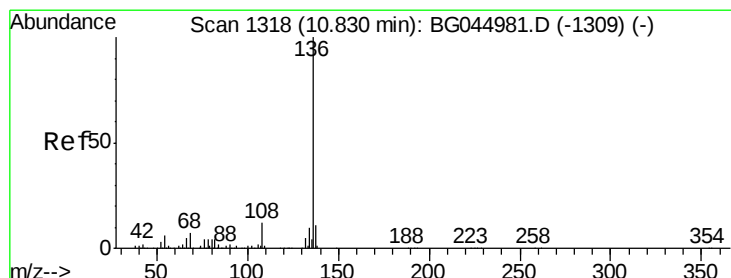
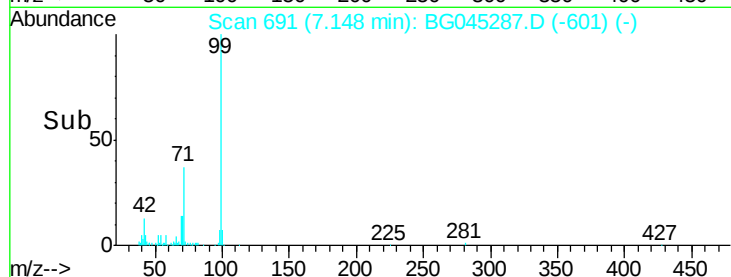
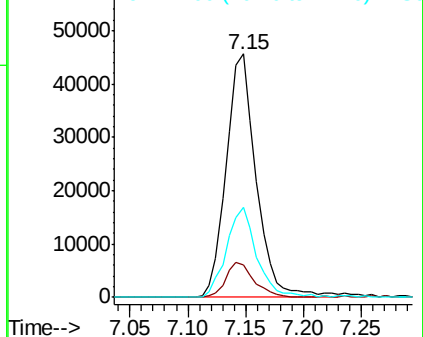
99 100

42 13.1 11.3 16.9

71 37.2 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: BG045287.D

Acq: 8 May 2020 2:39

Tgt Ion: 136 Resp: 312977

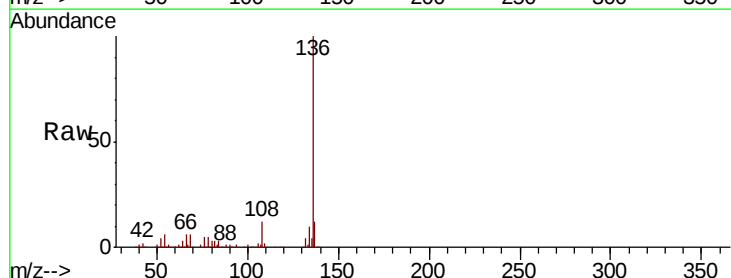
Ion Ratio Lower Upper

136 100

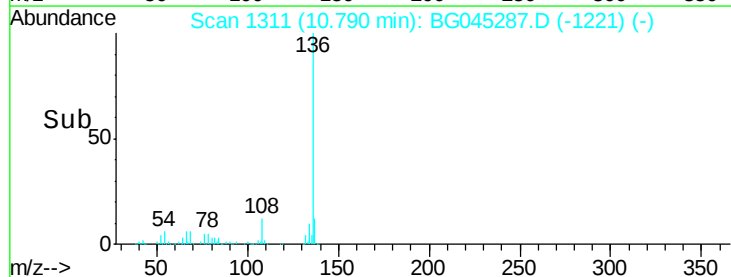
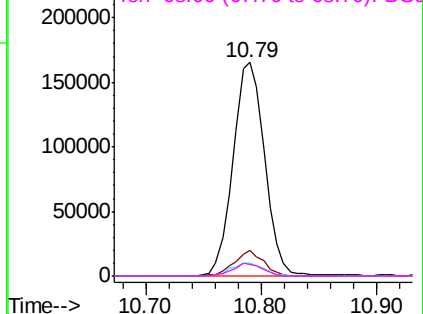
137 11.8 8.6 13.0

54 6.0 4.8 7.2

68 5.5 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

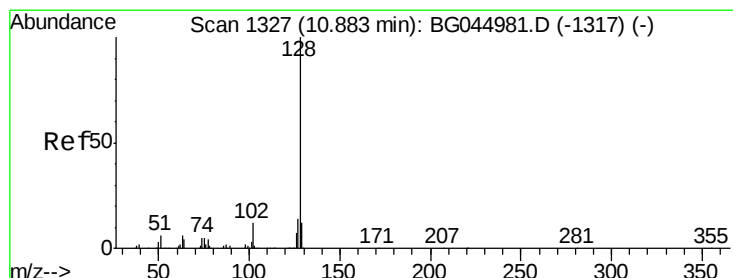
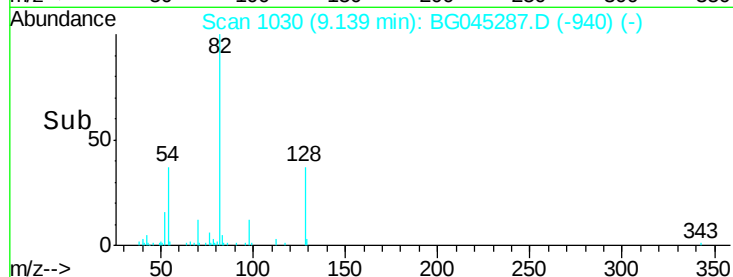
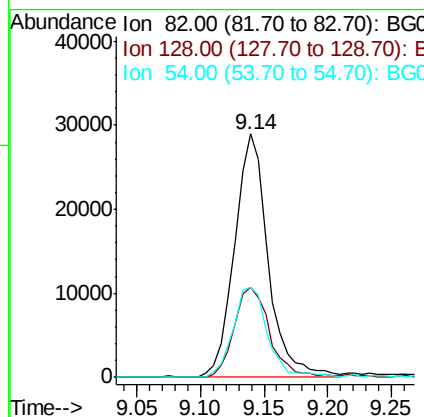
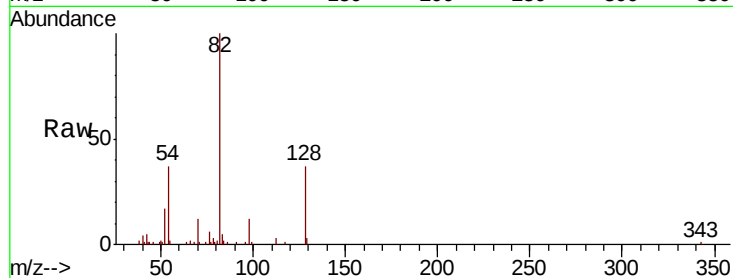




#23
 Nitrobenzene-d5
 Concen: 7.742 ng
 RT: 9.14 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

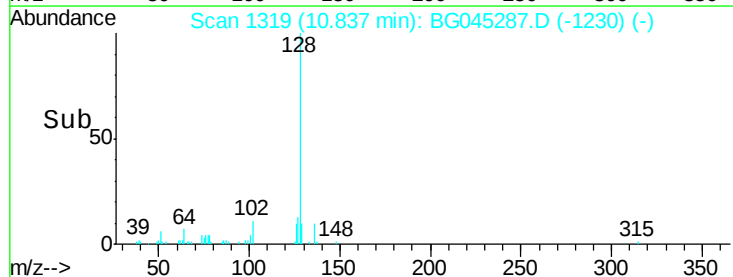
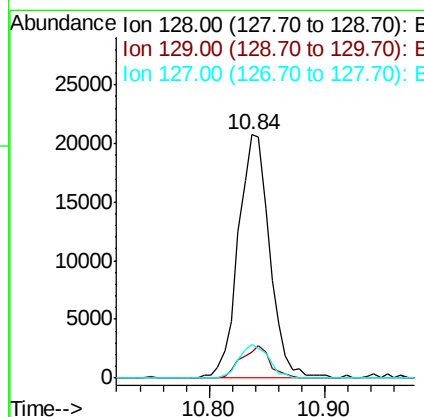
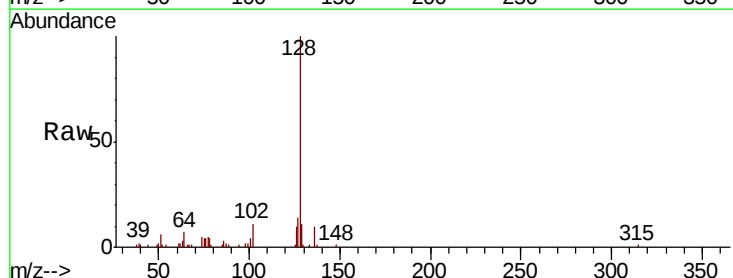
Instrument :
 BNA_G
 ClientSampleId :

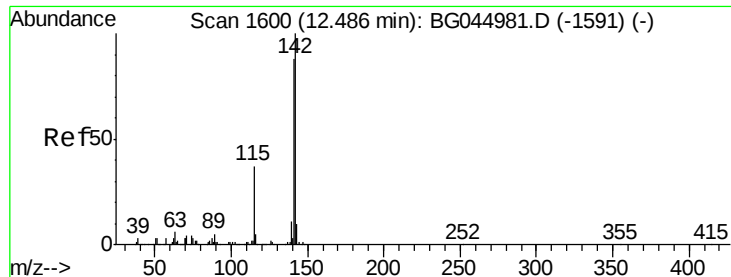
Tot Ion	82	Resp	53107
Ion	Ratio	Lower	Upper
82	100		
128	37.1	33.0	49.4
54	37.0	30.4	45.6



#31
 Naphthalene
 Concen: 2.288 ng
 RT: 10.84 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

Tgt Ion	128	Resp	39168
Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.4	14.2
127	14.1	10.8	16.2

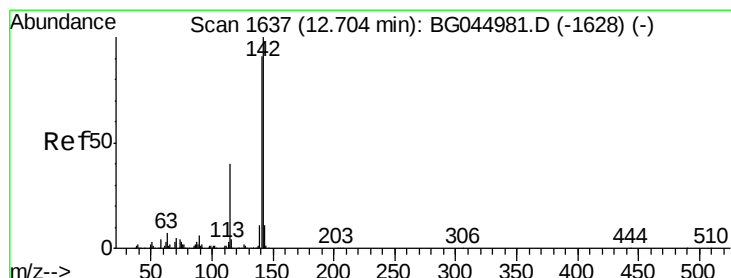
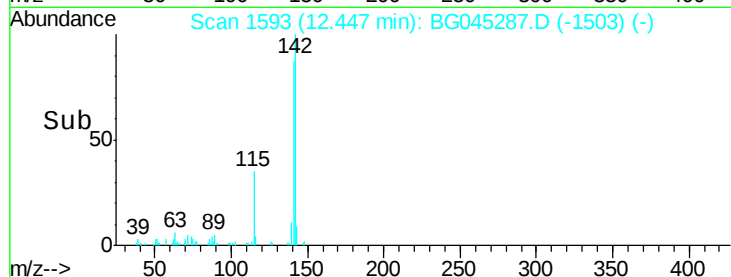
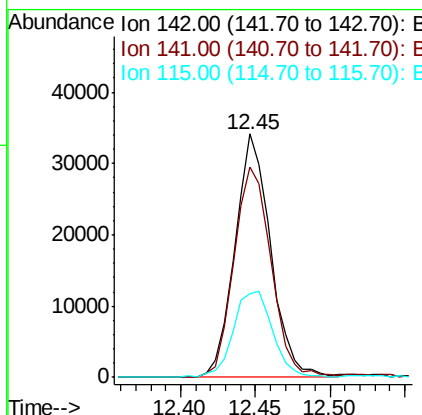
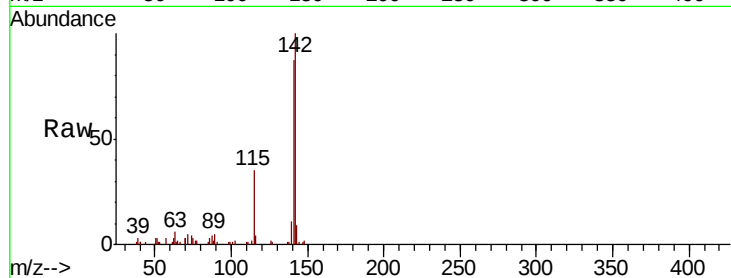




#37
 2-Methylnaphthalene
 Concen: 4.275 ng
 RT: 12.45 min Scan# 1593
 Delta R.T. -0.00 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

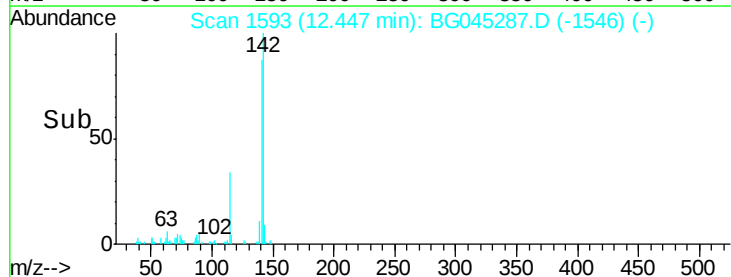
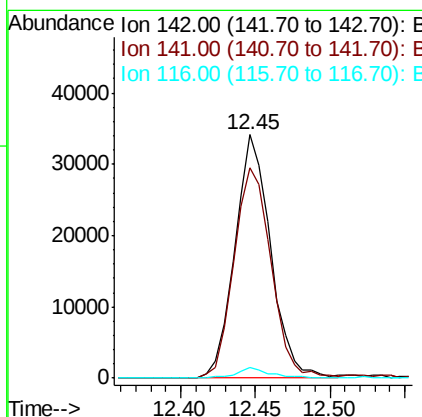
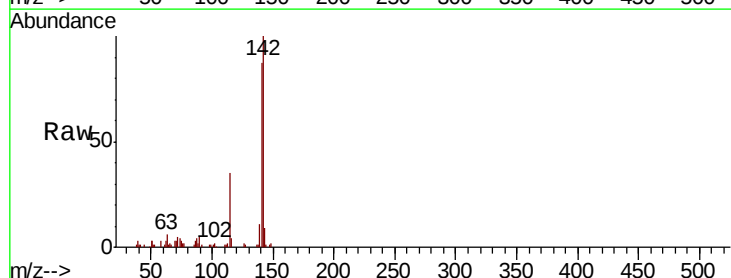
Instrument :
 BNA_G
 ClientSampleId :

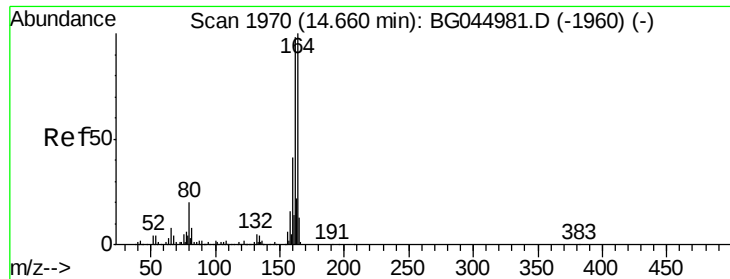
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.3	105.5
115	34.5	29.8	44.6



#38
 1-Methylnaphthalene
 Concen: 4.528 ng
 RT: 12.45 min Scan# 1593
 Delta R.T. -0.22 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.6	72.7	109.1
116	4.2	3.1	4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.63 min Scan# 1964

Delta R.T. -0.00 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

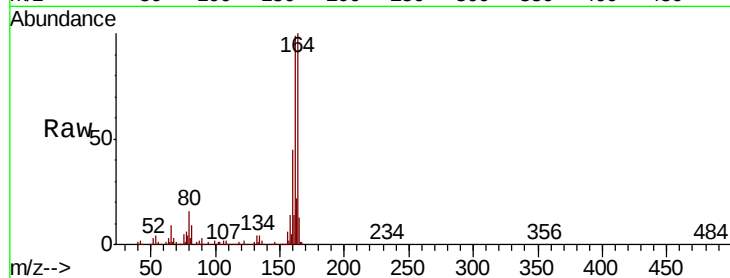
Tot Ion:164 Resp: 221548

Ion Ratio Lower Upper

164 100

162 99.5 78.7 118.1

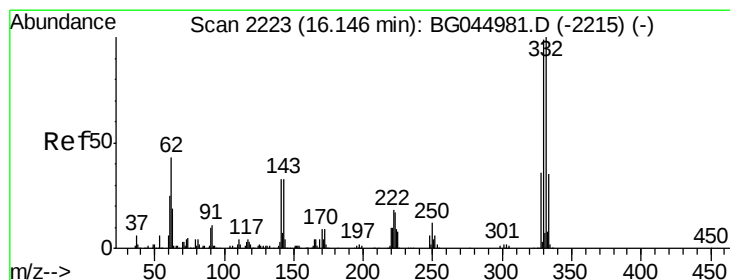
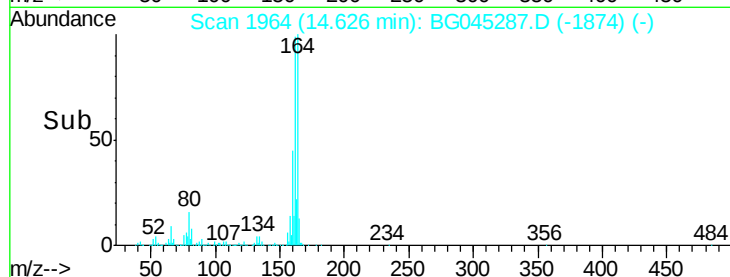
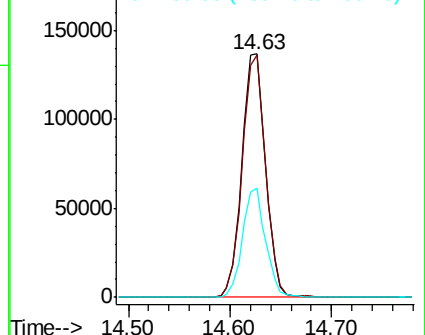
160 44.6 32.8 49.2



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: 10.957 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

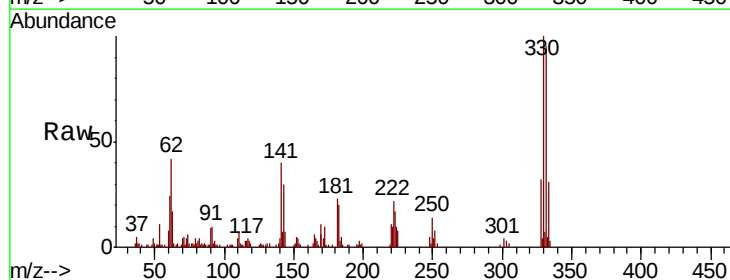
Tgt Ion:330 Resp: 37502

Ion Ratio Lower Upper

330 100

332 98.8 79.1 118.7

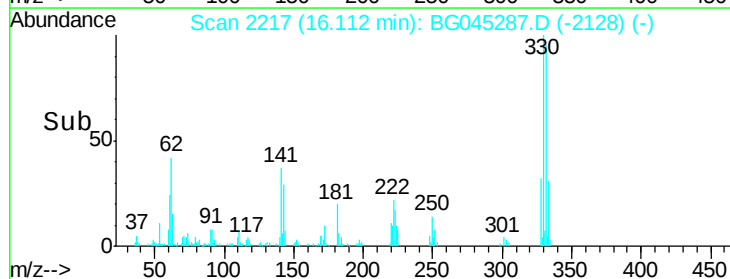
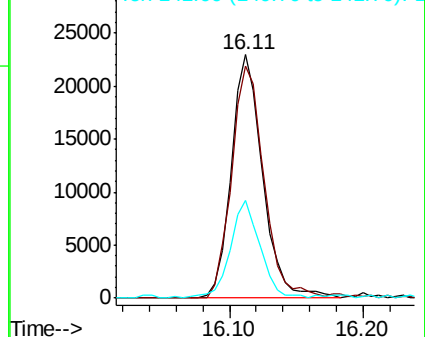
141 38.4 27.1 40.7

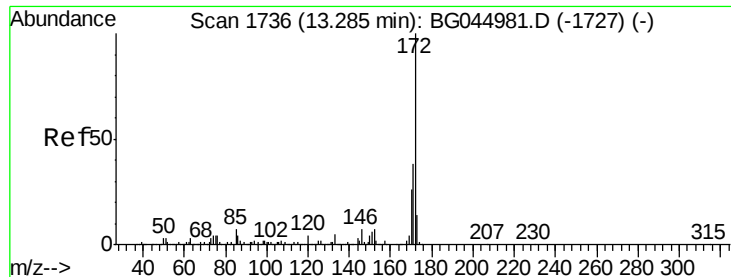


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

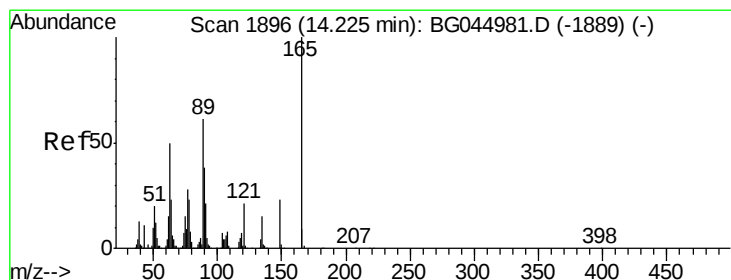
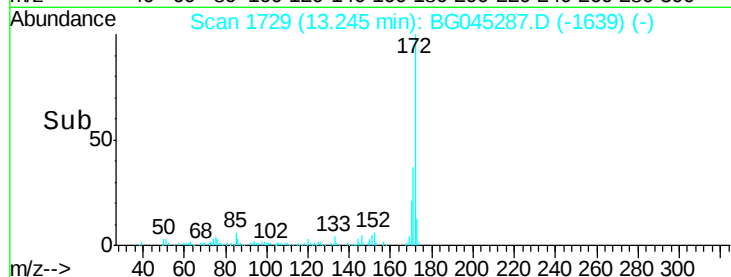
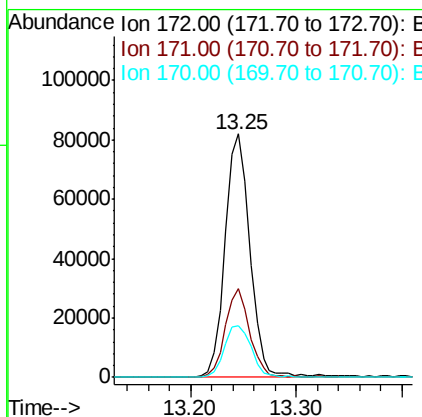
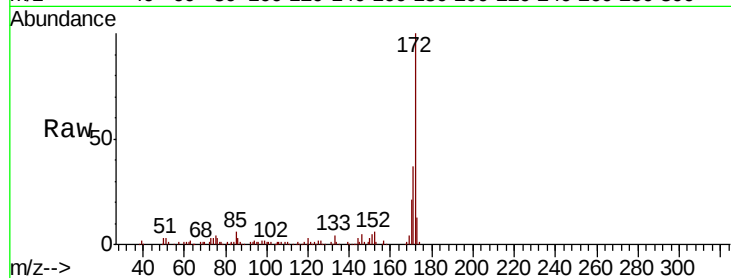




#45
2-Fluorobiphenyl
Concen: 8.871 ng
RT: 13.25 min Scan# 1729
Delta R.T. -0.00 min
Lab File: BG045287.D
Acq: 8 May 2020 2:39

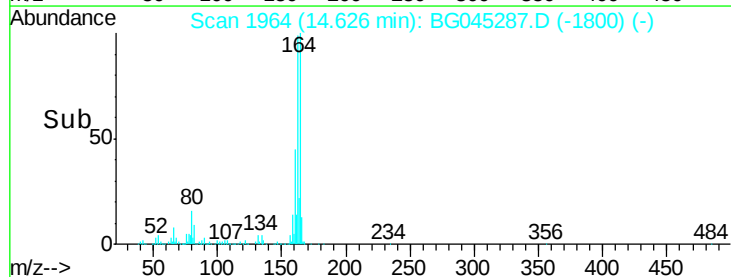
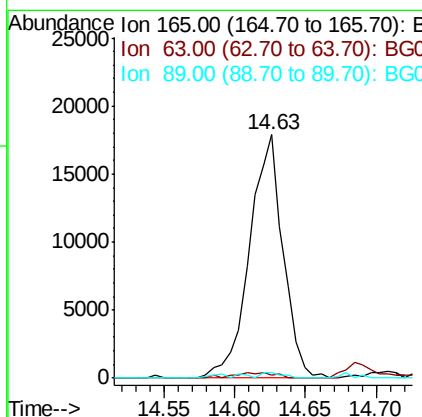
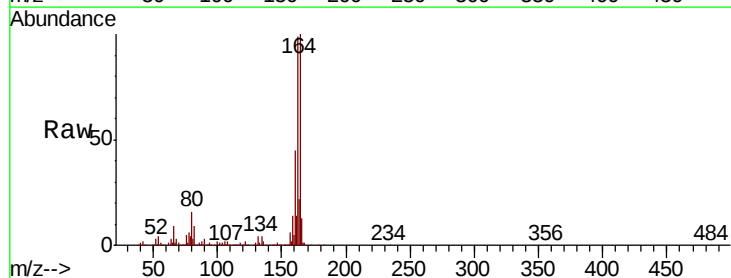
Instrument :
BNA_G
ClientSampled :

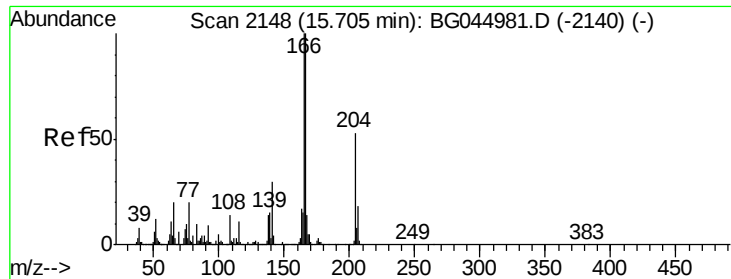
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	30.6	46.0
170	21.3	20.5	30.7



#51
2,6-Dinitrotoluene
Concen: 7.386 ng
RT: 14.63 min Scan# 1964
Delta R.T. 0.43 min
Lab File: BG045287.D
Acq: 8 May 2020 2:39

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	40.4	60.6#
89	2.2	49.1	73.7#





#58

Fluorene

Concen: 3.798 ng

RT: 15.67 min Scan# 2142

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampled :

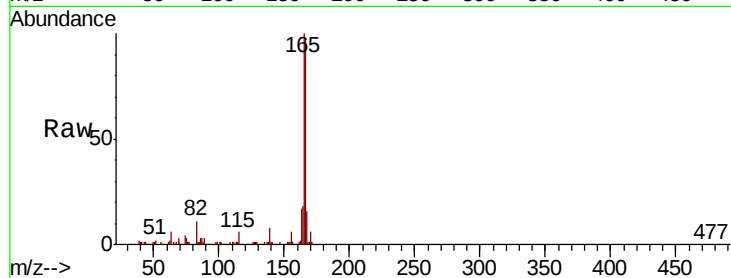
Tot Ion:166 Resp: 64143

Ion Ratio Lower Upper

166 100

165 102.6 79.9 119.9

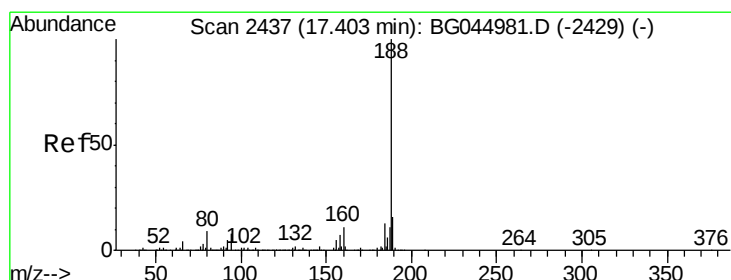
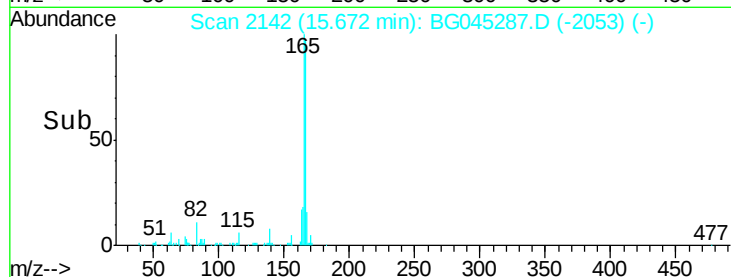
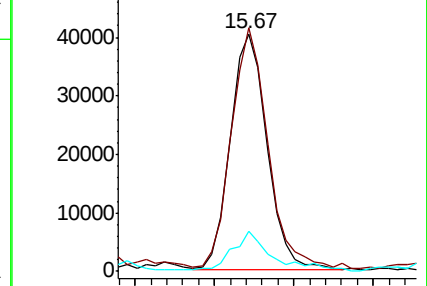
167 16.8 11.4 17.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2431

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

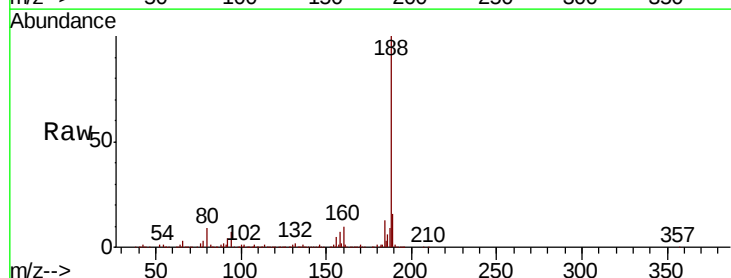
Tgt Ion:188 Resp: 477870

Ion Ratio Lower Upper

188 100

94 7.2 6.2 9.4

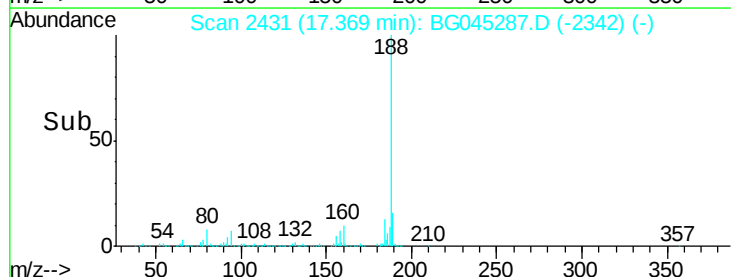
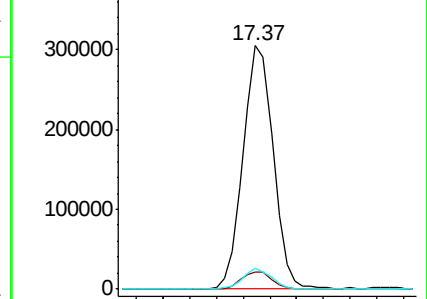
80 8.5 7.0 10.6

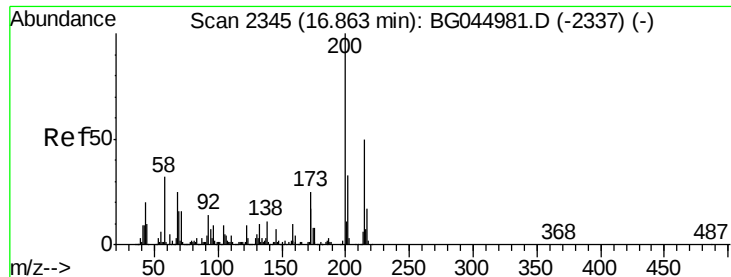


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

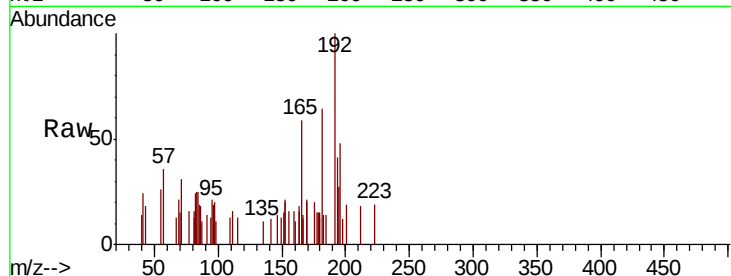




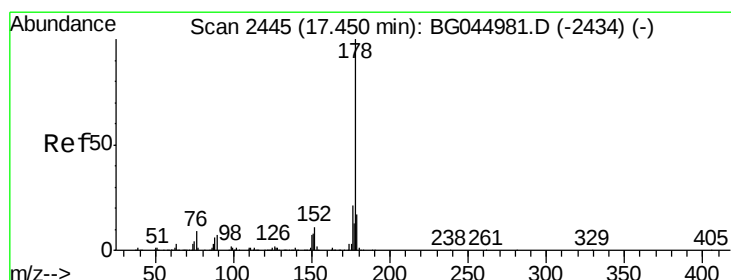
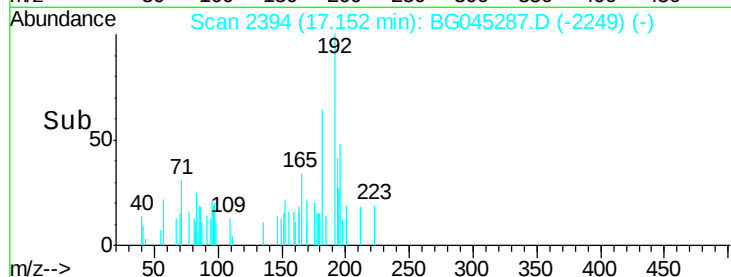
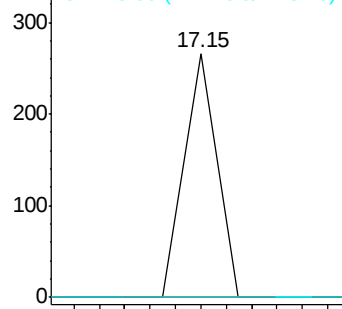
#69
 Atrazine
 Concen: Below Cal
 RT: 17.15 min Scan# 2394
 Delta R.T. 0.32 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
200	100		
173	0.0	4.5	44.5#
215	0.0	30.0	70.0#

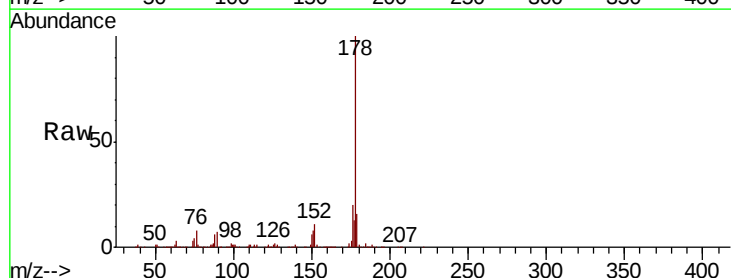


Abundance Ion 200.00 (199.70 to 200.70): E
 Ion 173.00 (172.70 to 173.70): E
 Ion 215.00 (214.70 to 215.70): E

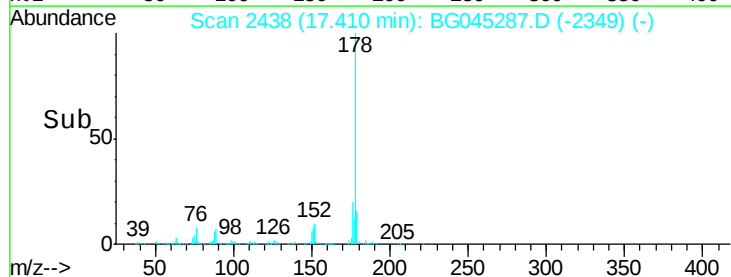
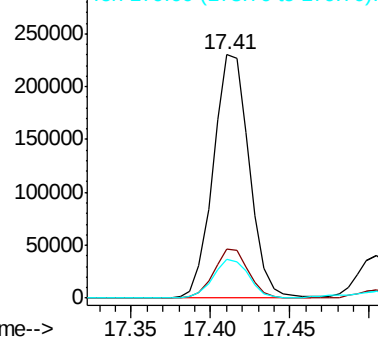


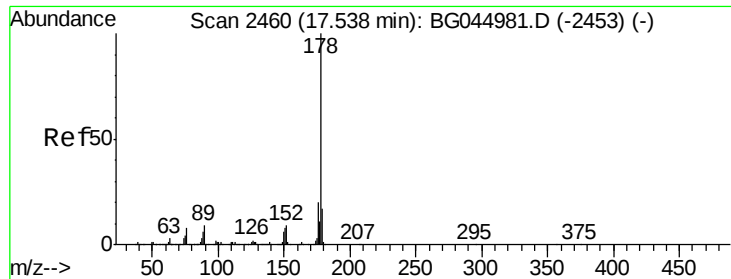
#71
 Phenanthrene
 Concen: 14.739 ng
 RT: 17.41 min Scan# 2438
 Delta R.T. -0.01 min
 Lab File: BG045287.D
 Acq: 8 May 2020 2:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.8	25.2
179	16.0	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





#72

Anthracene

Concen: 2.444 ng

RT: 17.50 min Scan# 2454

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

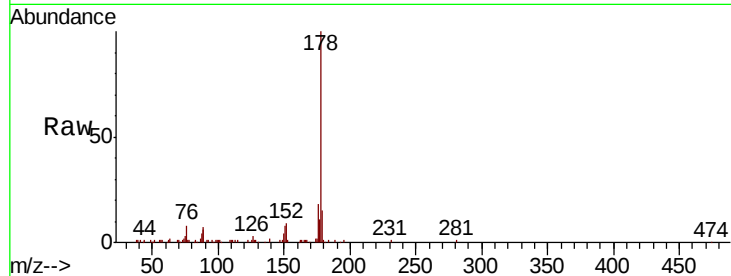
Tot Ion:178 Resp: 60213

Ion Ratio Lower Upper

178 100

176 17.5 16.0 24.0

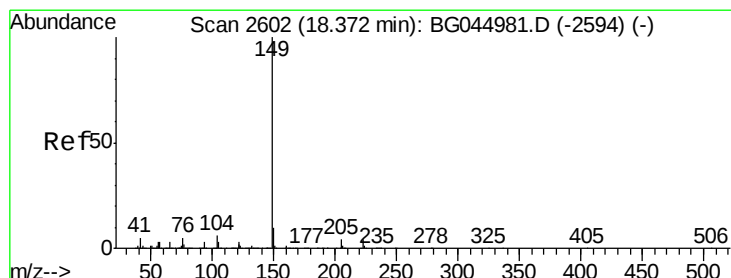
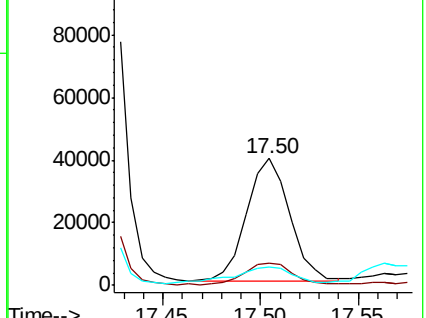
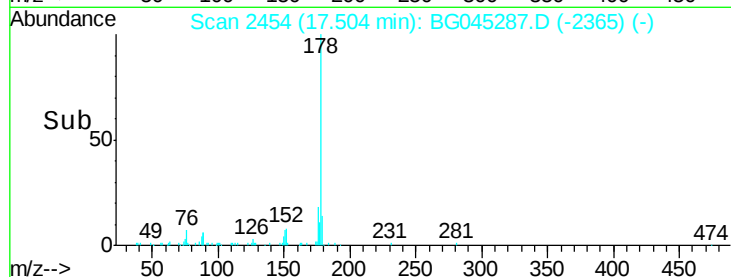
179 14.7 13.6 20.4



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# 2597

Delta R.T. 0.00 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

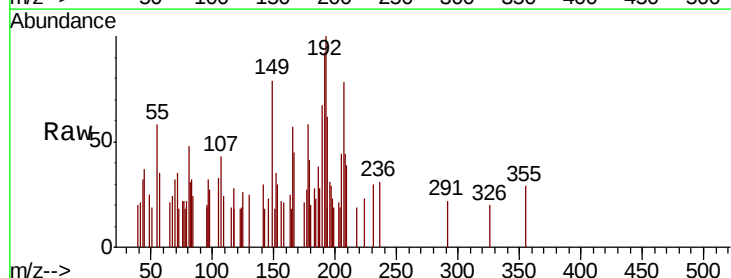
Tgt Ion:149 Resp: 929

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

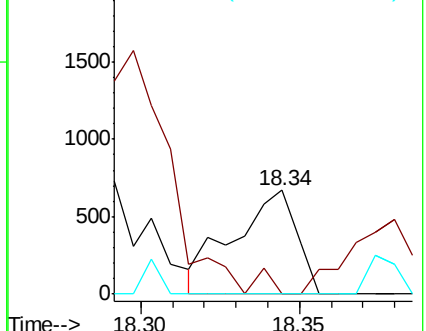
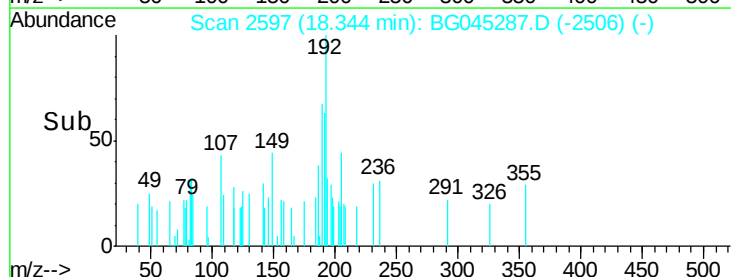
104 0.0 4.8 7.2#

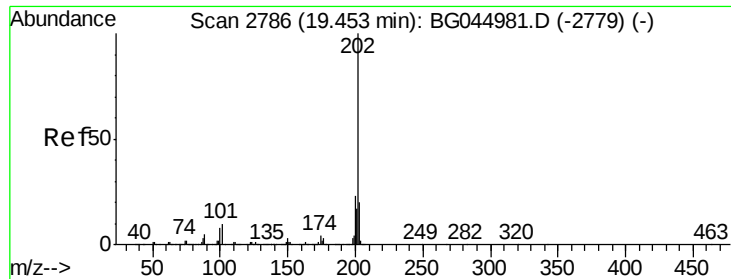


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 3.994 ng

RT: 19.43 min Scan# 2781

Delta R.T. -0.00 min

Lab File: BG045287.D

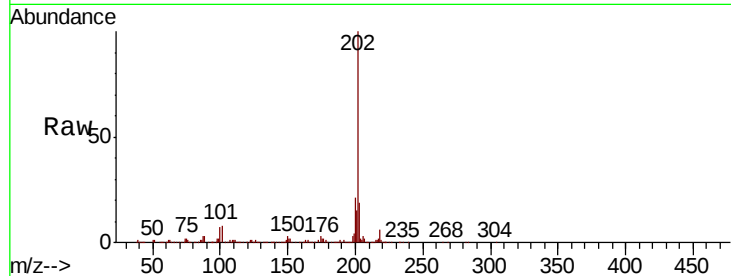
Acq: 8 May 2020 2:39

Instrument :

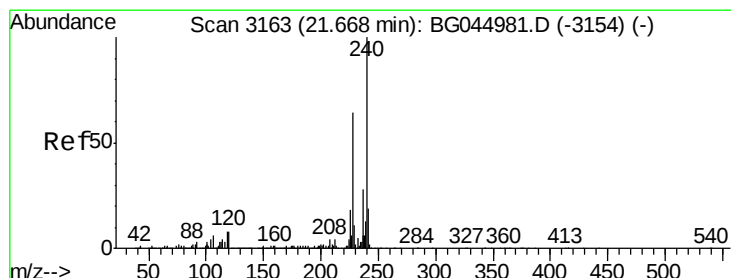
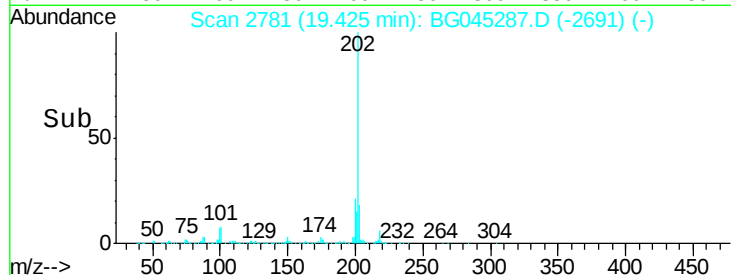
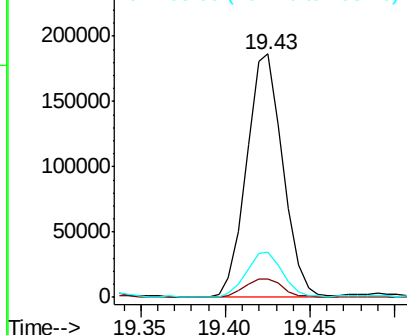
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	277568
Ion Ratio	Lower	Upper	
202	100		
101	7.6	0.0	29.6
203	18.5	0.0	39.7



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

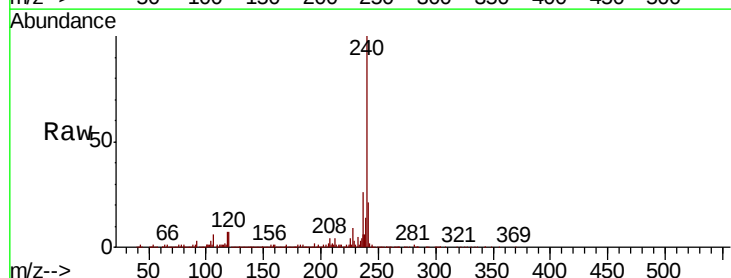
RT: 21.63 min Scan# 3157

Delta R.T. -0.01 min

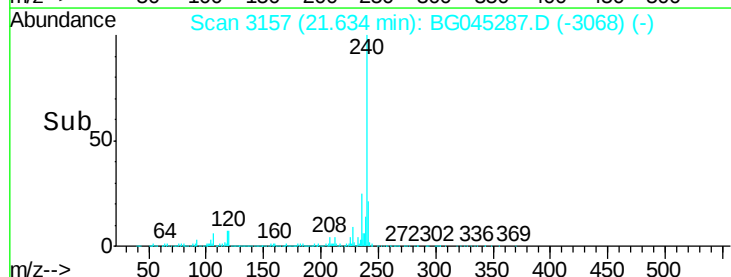
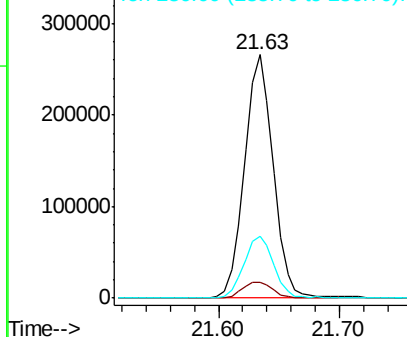
Lab File: BG045287.D

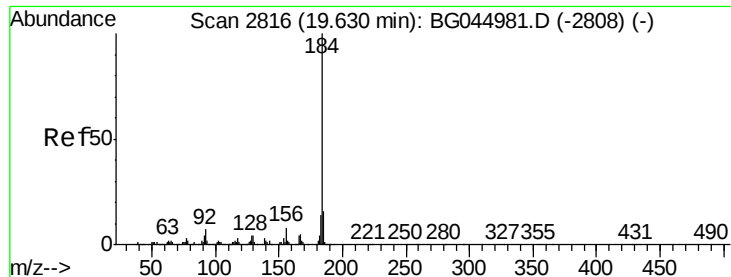
Acq: 8 May 2020 2:39

Tgt Ion:	240	Resp:	439628
Ion Ratio	Lower	Upper	
240	100		
120	6.7	6.6	10.0
236	25.6	22.2	33.2



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: Below Cal

RT: 19.58 min Scan# 2807

Delta R.T. -0.02 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

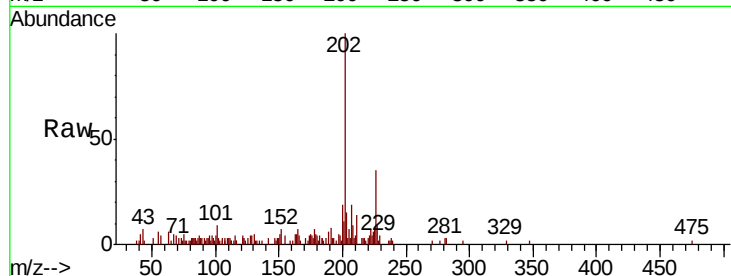
Tot Ion:184 Resp: 364

Ion Ratio Lower Upper

184 100

185 32.9 12.6 19.0#

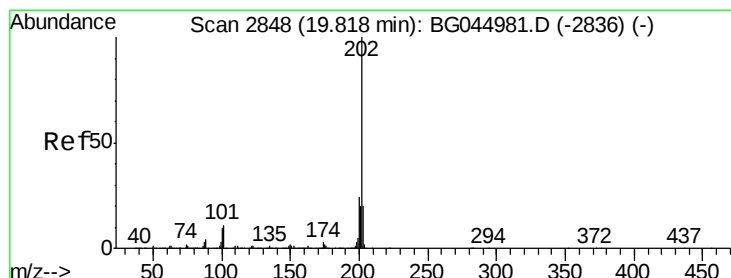
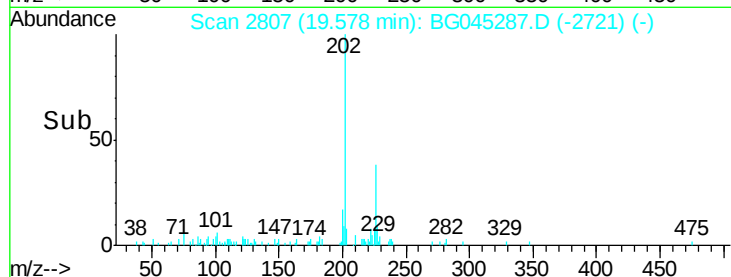
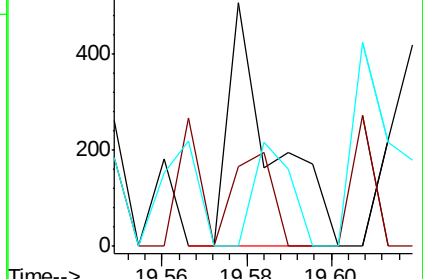
183 0.0 11.3 16.9#



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: 11.364 ng

RT: 19.78 min Scan# 2842

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

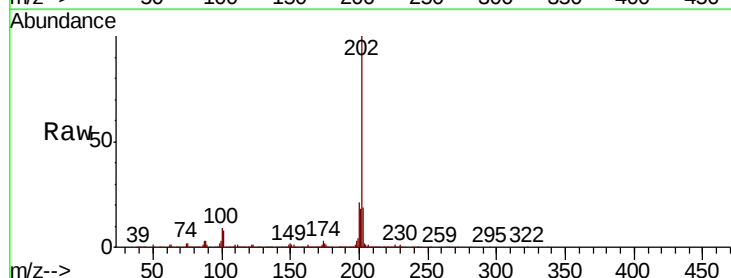
Tgt Ion:202 Resp: 344425

Ion Ratio Lower Upper

202 100

200 21.3 19.0 28.6

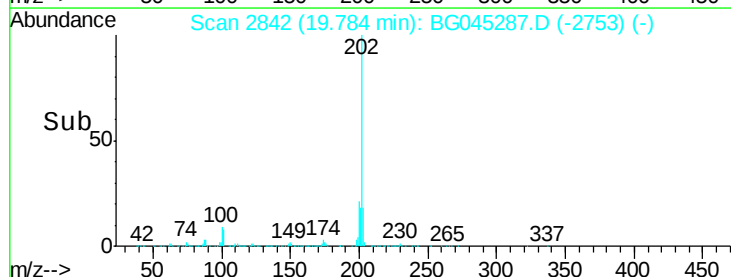
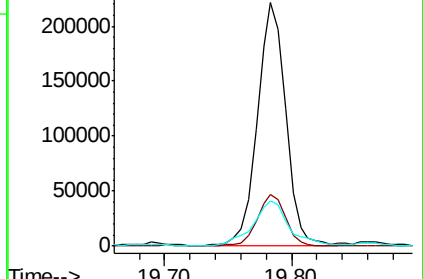
203 18.6 16.1 24.1

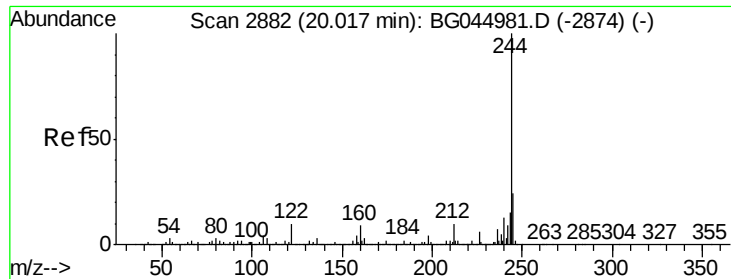


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 10.618 ng

RT: 19.98 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

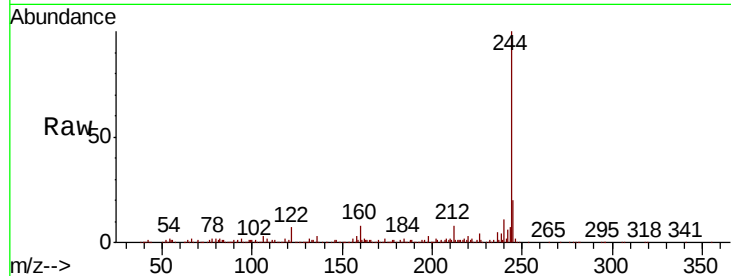
Tot Ion:244 Resp: 214169

Ion Ratio Lower Upper

244 100

212 8.3 7.9 11.9

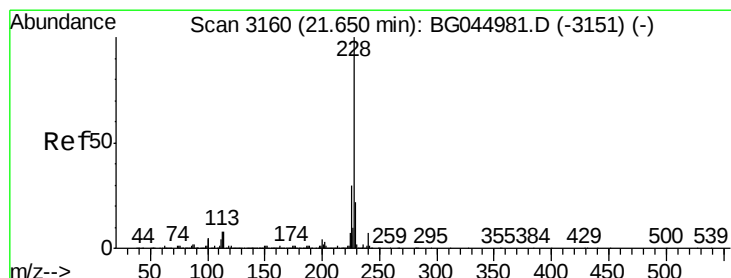
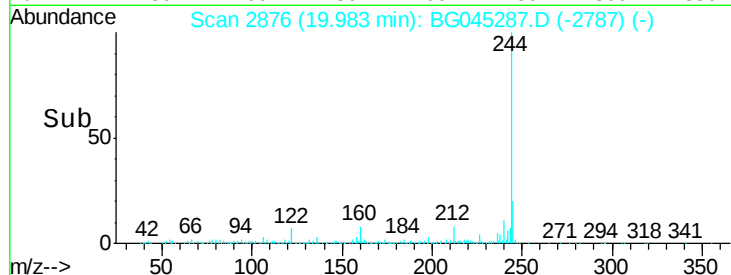
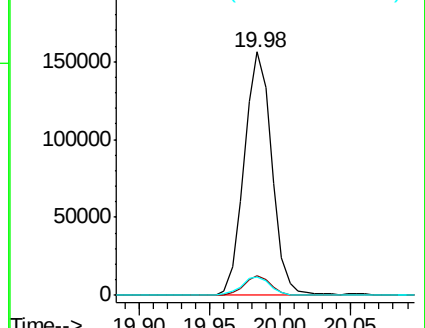
122 7.3 7.7 11.5#



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: 5.547 ng

RT: 21.62 min Scan# 3154

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

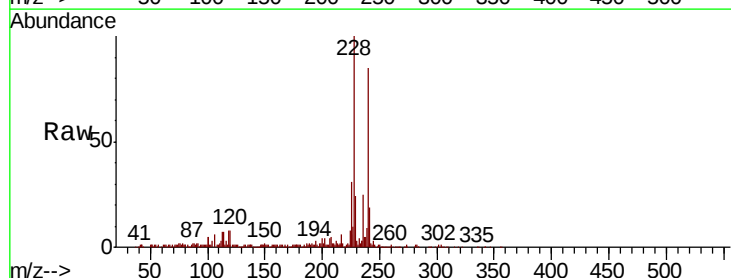
Tgt Ion:228 Resp: 158049

Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

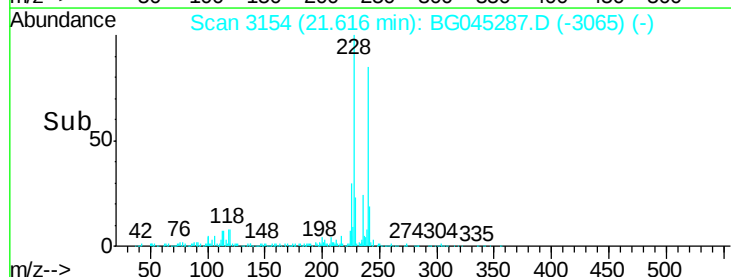
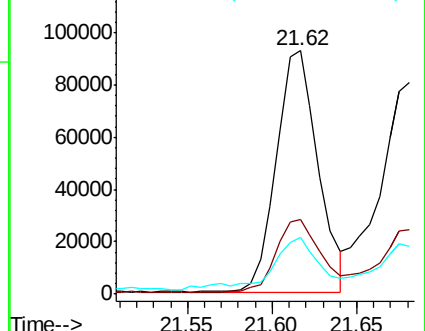
229 23.6 17.5 26.3

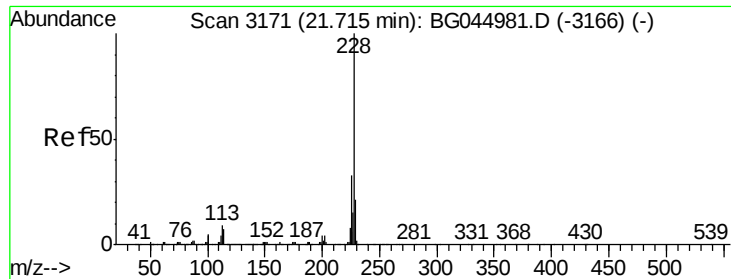


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 5.452 ng

RT: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

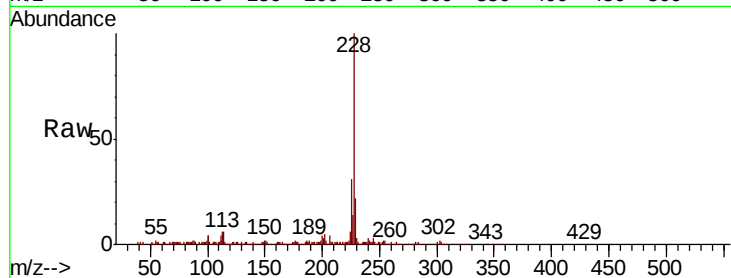
Tot Ion:228 Resp: 149273

Ion Ratio Lower Upper

228 100

226 30.6 26.2 39.4

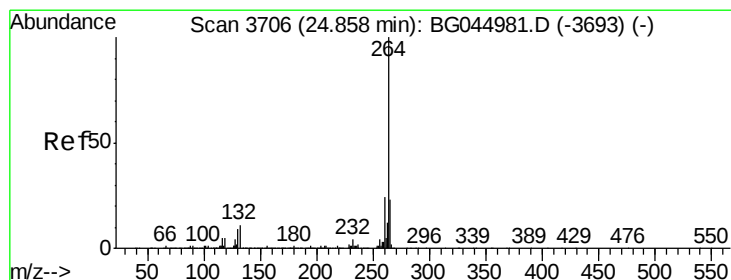
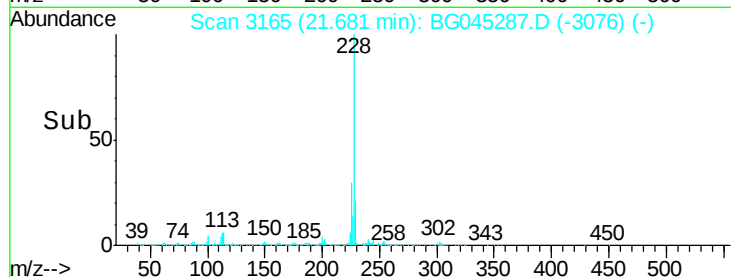
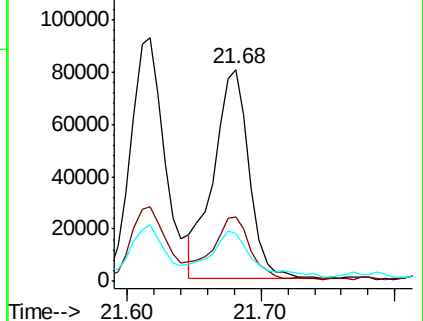
229 22.3 17.0 25.6



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.81 min Scan# 3697

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

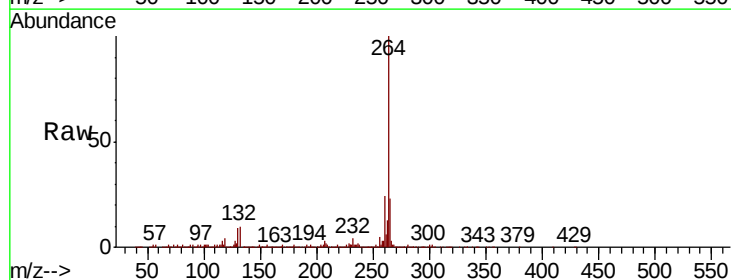
Tgt Ion:264 Resp: 485192

Ion Ratio Lower Upper

264 100

260 23.6 19.2 28.8

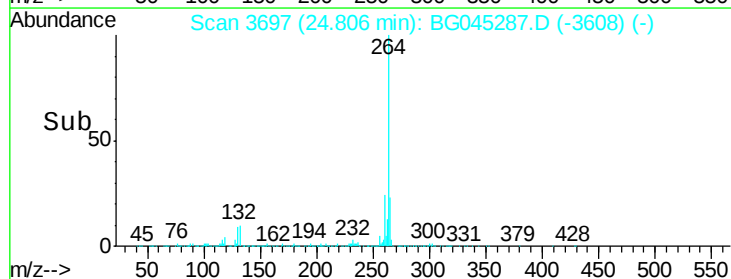
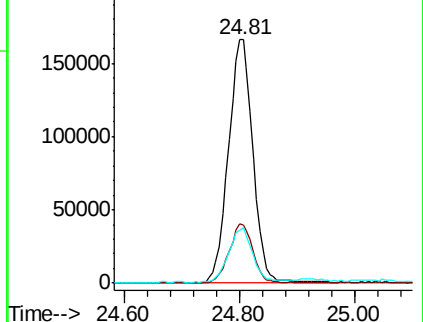
265 22.7 19.0 28.4

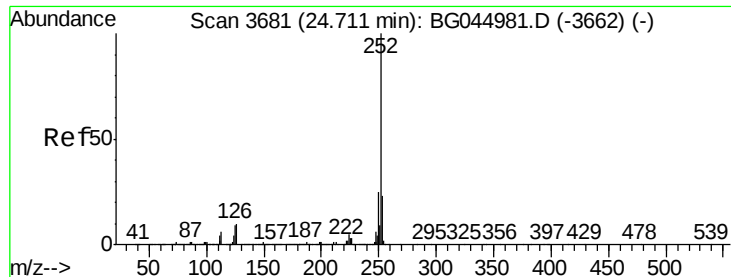


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#90

Benzo(a)pyrene

Concen: 4.202 ng

RT: 24.65 min Scan# 3671

Delta R.T. -0.01 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

Instrument :

BNA_G

ClientSampleId :

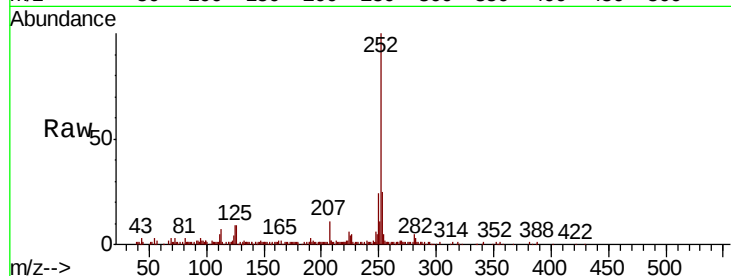
Tot Ion:252 Resp: 120590

Ion Ratio Lower Upper

252 100

253 25.2 18.3 27.5

125 9.1 7.0 10.6

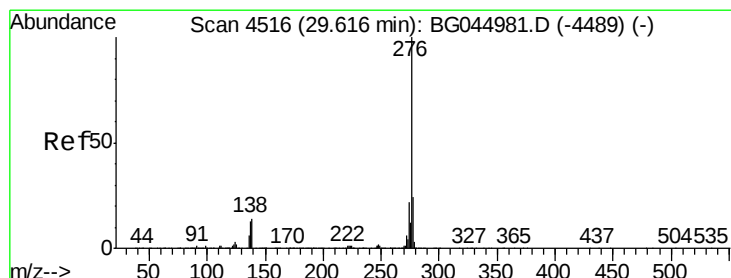
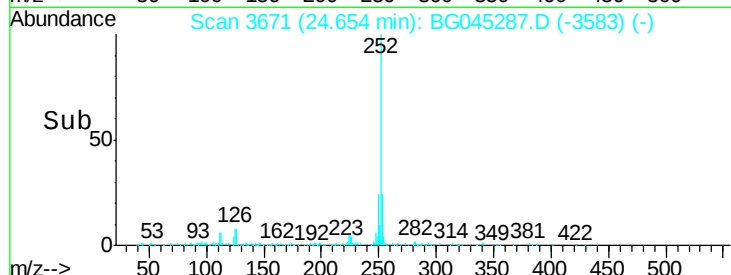
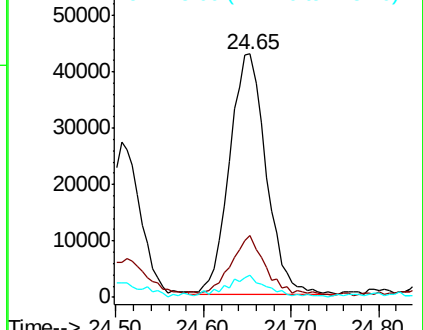


Abundance

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: 2.443 ng

RT: 29.51 min Scan# 4497

Delta R.T. -0.04 min

Lab File: BG045287.D

Acq: 8 May 2020 2:39

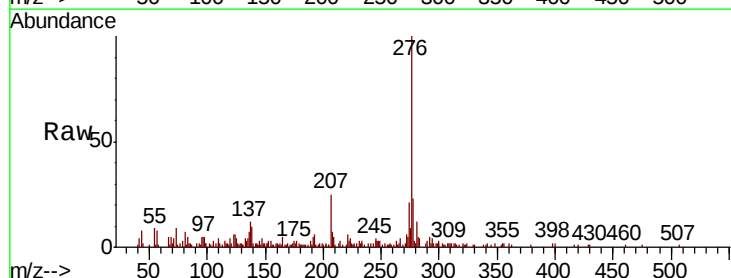
Tgt Ion:276 Resp: 70832

Ion Ratio Lower Upper

276 100

277 22.8 19.3 28.9

138 10.2 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

