

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050420\
 Data File : BG045242.D
 Acq On : 4 May 2020 20:33
 Operator : CG/JU
 Sample : L2441-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RECOVERED-CRUSH-AGGREGAT

Quant Time: May 05 01:27:45 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 04 13:03:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	97359	20.00	ng	0.00
21) Naphthalene-d8	10.80	136	376626	20.00	ng	0.00
39) Acenaphthene-d10	14.64	164	265163	20.00	ng	0.00
64) Phenanthrene-d10	17.38	188	542259	20.00	ng	0.00
76) Chrysene-d12	21.65	240	458710	20.00	ng	0.00
87) Perylene-d12	24.83	264	525942	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.57	112	41752	7.08	ng	0.00
7) Phenol-d6	7.16	99	59893	6.84	ng	0.00
23) Nitrobenzene-d5	9.15	82	41374	5.01	ng	0.00
42) 2,4,6-Tribromophenol	16.12	330	23515	5.74	ng	0.00
45) 2-Fluorobiphenyl	13.26	172	106340	5.88	ng	0.00
79) Terphenyl-d14	19.99	244	147580	7.01	ng	0.00

Target Compounds

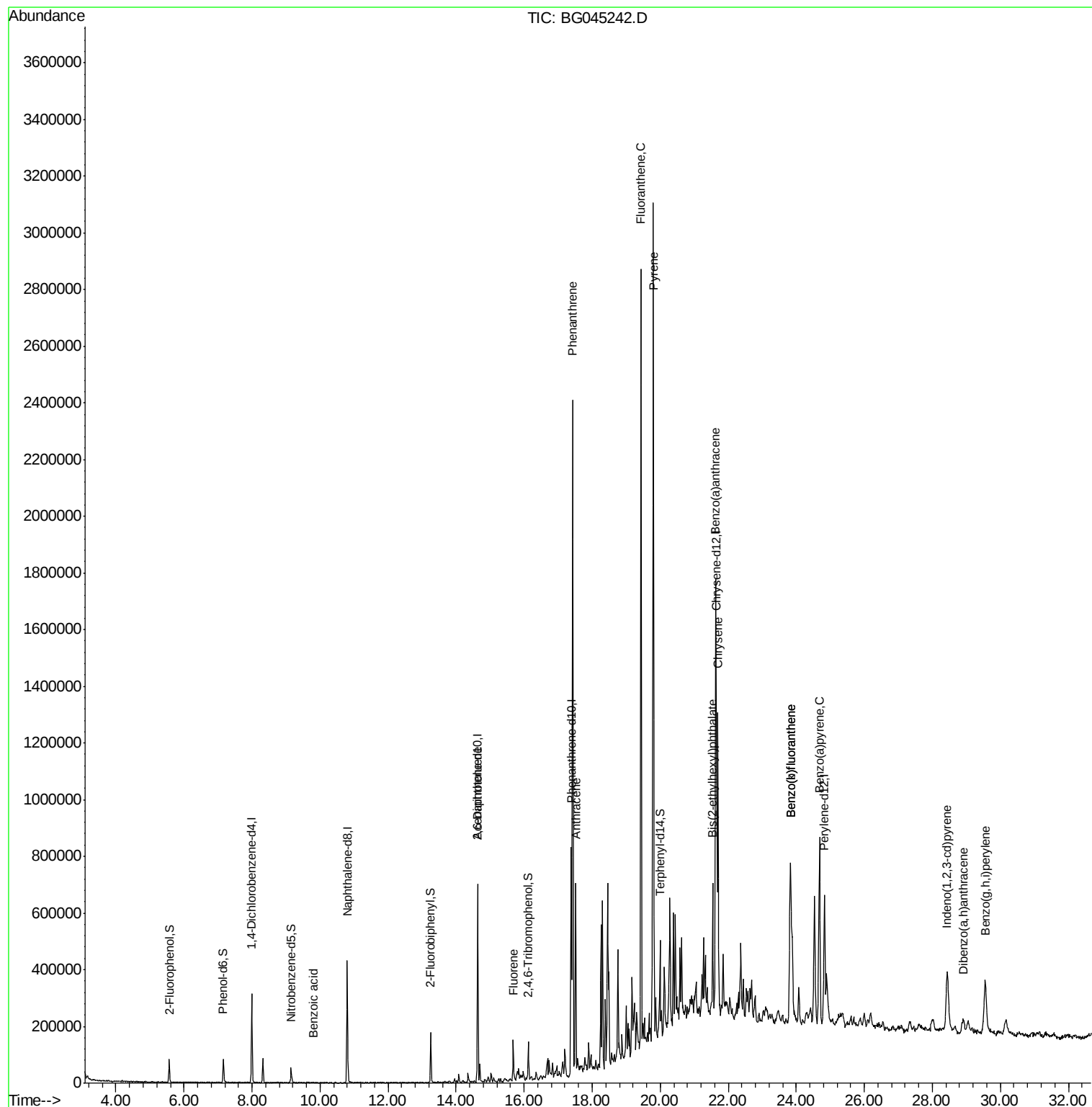
					Qvalue	
9) Benzaldehyde	7.11	77	55	Below Cal	#	4
32) Benzoic acid	9.81	122	74	6.387 ng	#	26
51) 2,6-Dinitrotoluene	14.63	165	35119	7.272 ng	#	25
58) Fluorene	15.68	166	65492	3.240 ng		99
69) Atrazine	16.82	200	56	Below Cal	#	35
71) Phenanthrene	17.43	178	1499394	53.809 ng		98
72) Anthracene	17.51	178	445428	15.936 ng		97
74) Di-n-butylphthalate	18.34	149	1166	Below Cal	#	1
75) Fluoranthene	19.44	202	1655537	51.429 ng		98
77) Benzidine	19.62	184	461	Below Cal	#	1
78) Pyrene	19.80	202	1936967	61.251 ng		98
81) Benzo(a)anthracene	21.63	228	915174	30.782 ng		99
83) Chrysene	21.70	228	771004	26.990 ng		97
84) Bis(2-ethylhexyl)phthalate	21.54	149	202228	11.217 ng		98
86) Indeno(1,2,3-cd)pyrene	28.43	276	416841	10.991 ng		95
88) Benzo(b)fluoranthene	23.82	252	831753	25.247 ng		96
89) Benzo(k)fluoranthene	23.82	252	831753	26.548 ng		96
90) Benzo(a)pyrene	24.68	252	783375	25.185 ng		97
91) Dibenzo(a,h)anthracene	28.90	278	89969	2.870 ng		98
92) Benzo(a,h,i)perylene	29.55	276	441850	14.061 ng		98

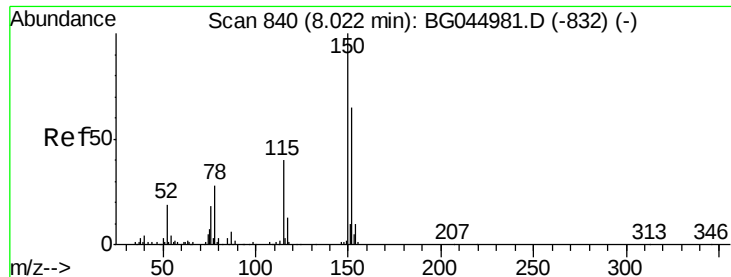
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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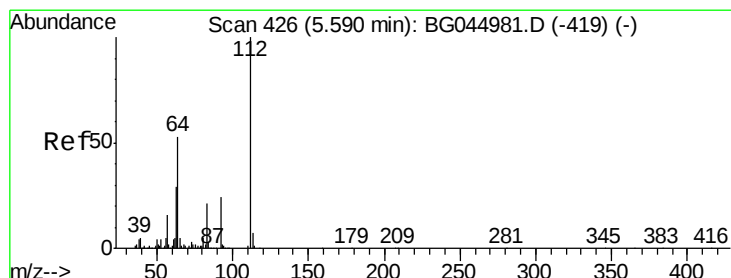
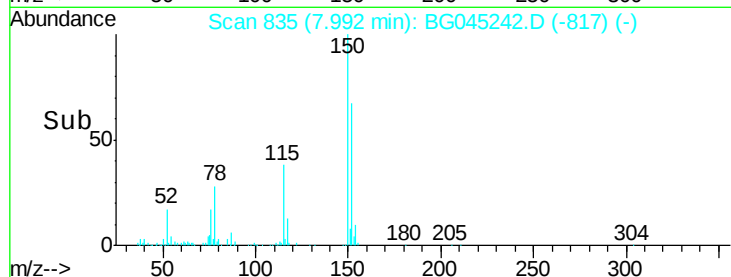
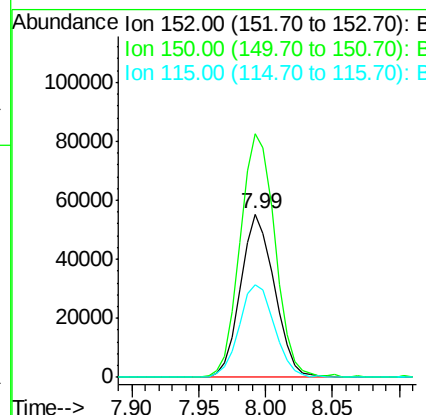
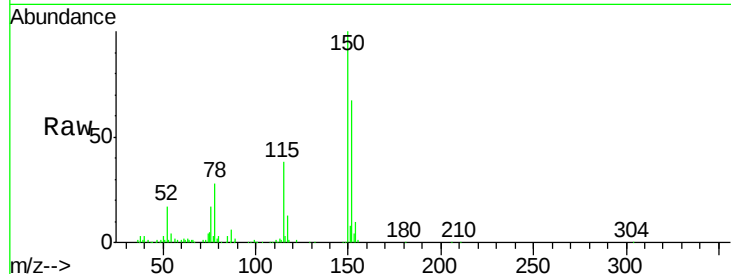


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.99 min Scan# 835
Delta R.T. 0.01 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Instrument :
BNA_G
ClientSampleId :
RECOVERED-CRUSH-AGGREGAT

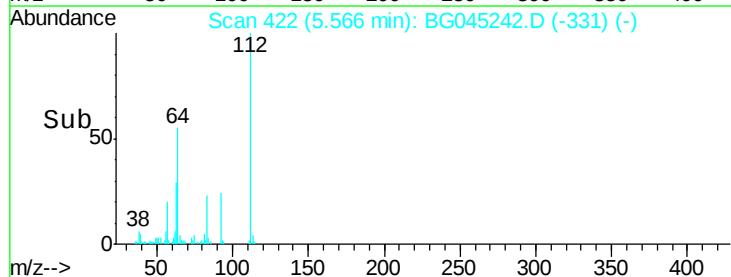
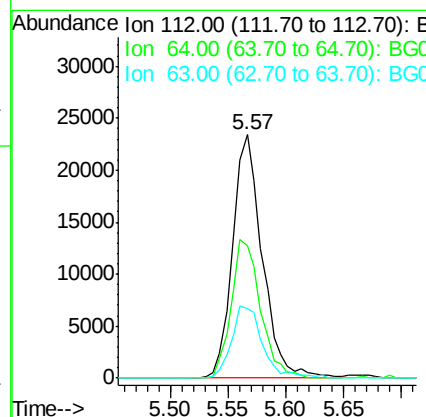
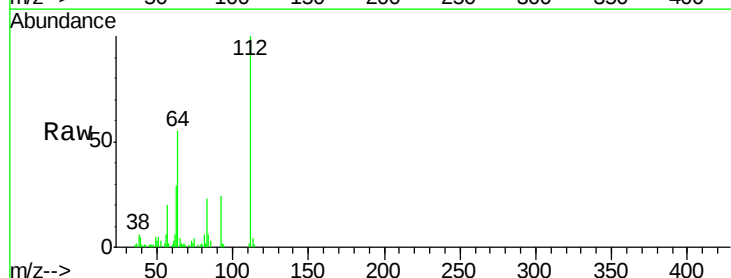
Tot Ion:152 Resp: 97359
Ion Ratio Lower Upper
152 100
150 149.4 123.6 185.4
115 57.0 49.1 73.7

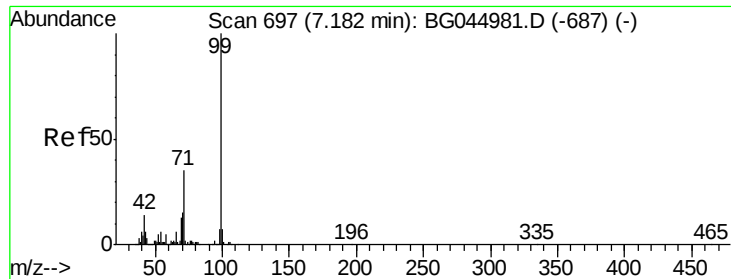


#5

2-Fluorophenol
Concen: 7.080 ng
RT: 5.57 min Scan# 422
Delta R.T. 0.01 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Tgt Ion:112 Resp: 41752
Ion Ratio Lower Upper
112 100
64 54.6 42.4 63.6
63 28.7 23.1 34.7





#7

Phenol-d6

Concen: 6.836 ng

RT: 7.16 min Scan# 693

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

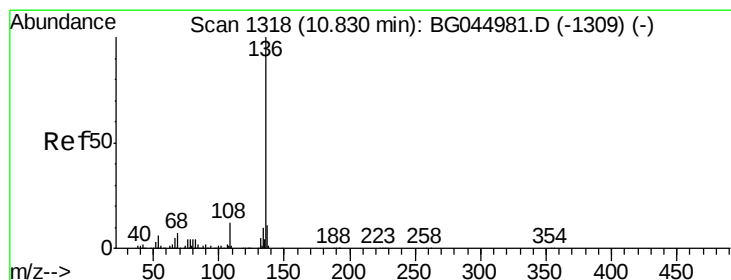
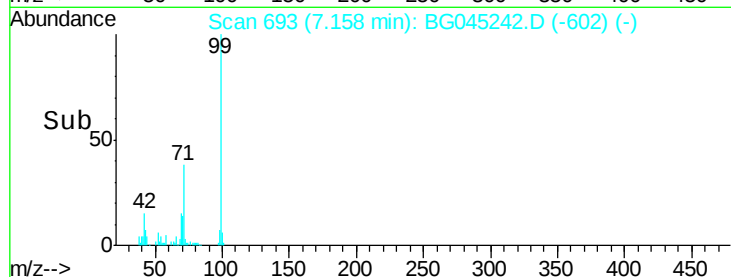
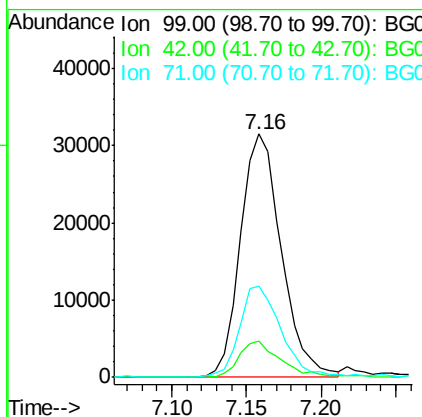
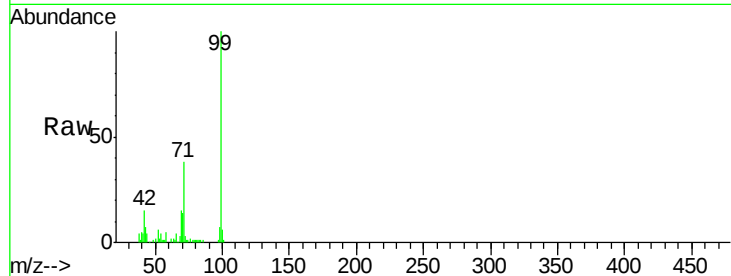
Tot Ion: 99 Resp: 59893

Ion Ratio Lower Upper

99 100

42 15.1 11.3 16.9

71 37.7 28.3 42.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.80 min Scan# 1313

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Tgt Ion: 136 Resp: 376626

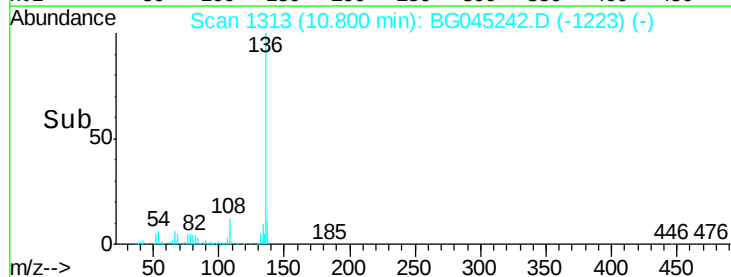
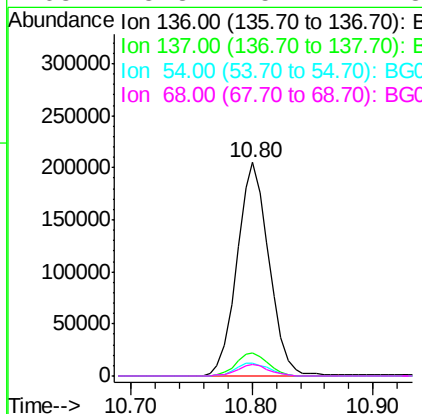
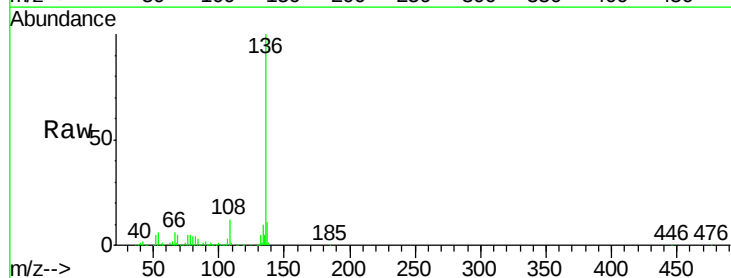
Ion Ratio Lower Upper

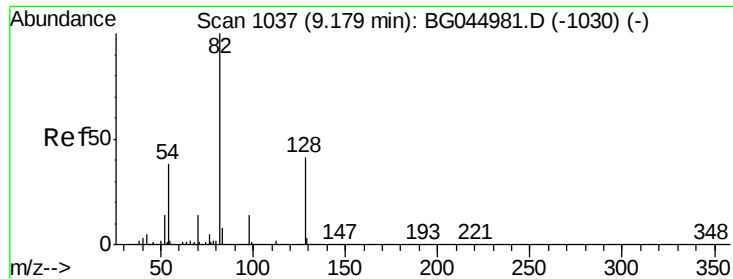
136 100

137 10.7 8.6 13.0

54 6.3 4.8 7.2

68 5.3 5.2 7.8

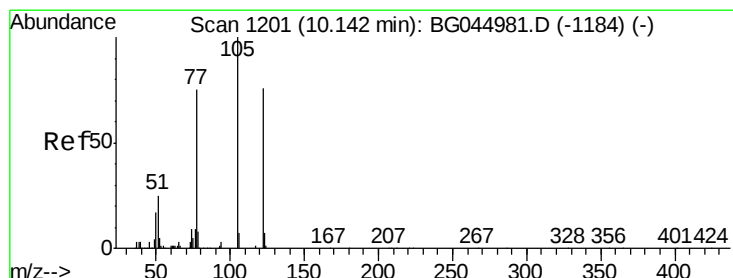
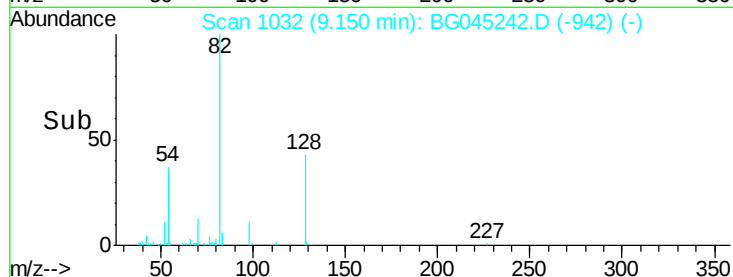
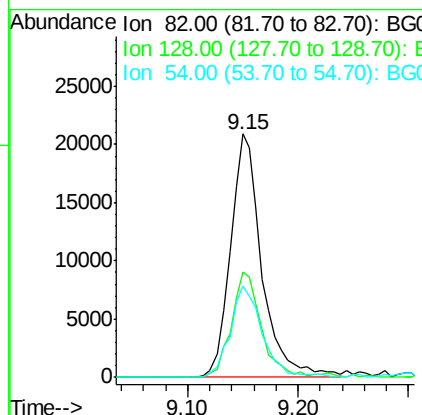
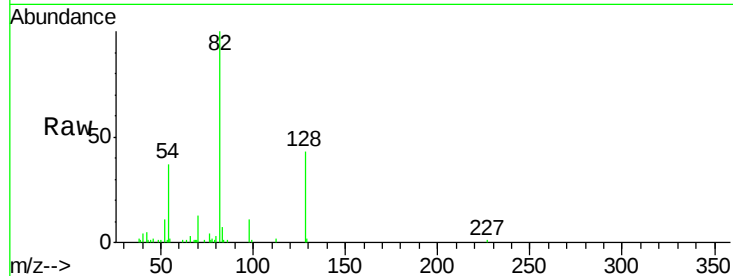




#23
Nitrobenzene-d5
Concen: 5.013 ng
RT: 9.15 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

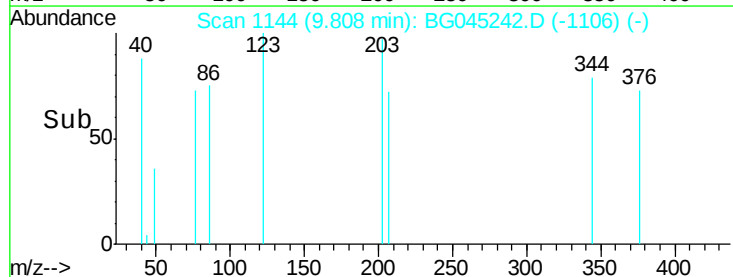
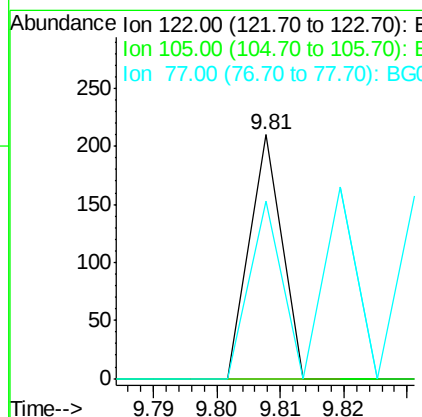
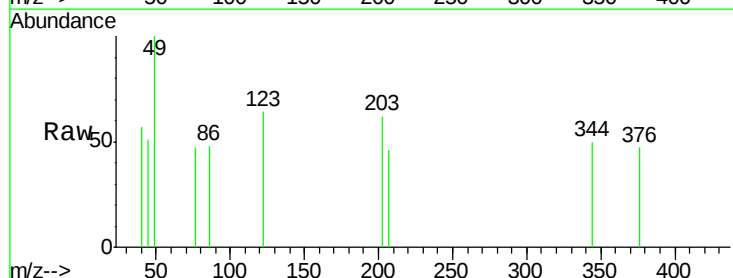
Instrument :
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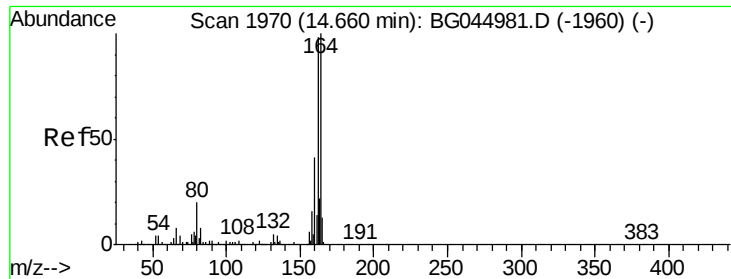
Tot Ion: 82 Resp: 41374
Ion Ratio Lower Upper
82 100
128 43.0 33.0 49.4
54 37.4 30.4 45.6



#32
Benzoic acid
Concen: 6.387 ng
RT: 9.81 min Scan# 1144
Delta R.T. -0.31 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Tgt Ion: 122 Resp: 74
Ion Ratio Lower Upper
122 100
105 0.0 108.4 148.4#
77 72.9 78.8 118.8#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.64 min Scan# 1966

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

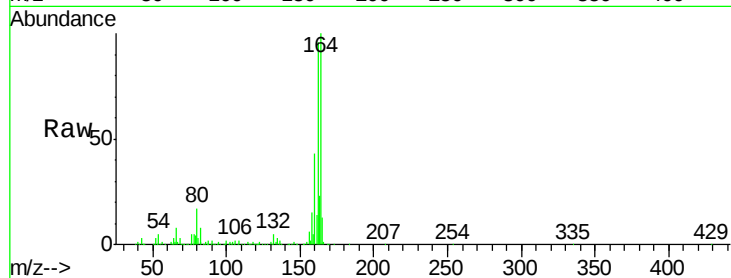
Tot Ion:164 Resp: 265163

Ion Ratio Lower Upper

164 100

162 96.1 78.7 118.1

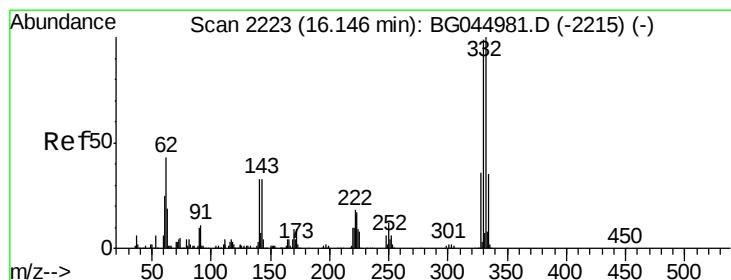
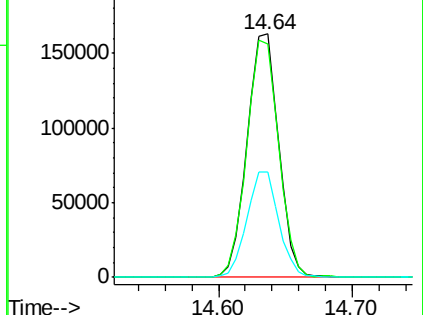
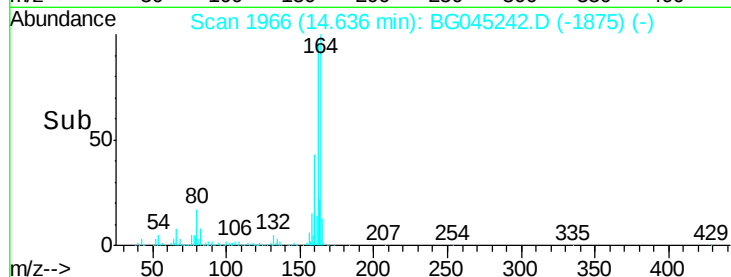
160 43.3 32.8 49.2



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: 5.740 ng

RT: 16.12 min Scan# 2219

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

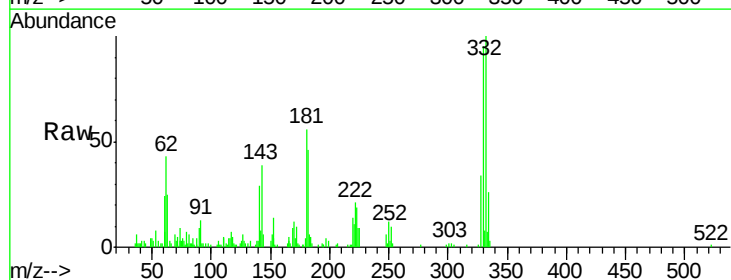
Tgt Ion:330 Resp: 23515

Ion Ratio Lower Upper

330 100

332 94.7 79.1 118.7

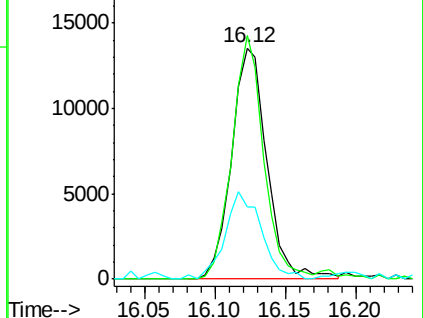
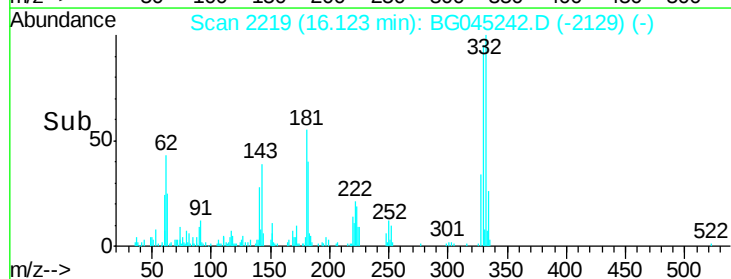
141 38.8 27.1 40.7

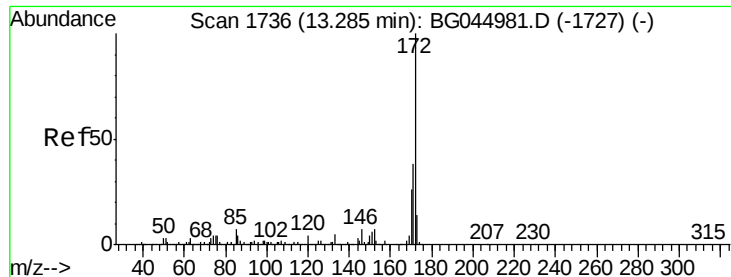


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

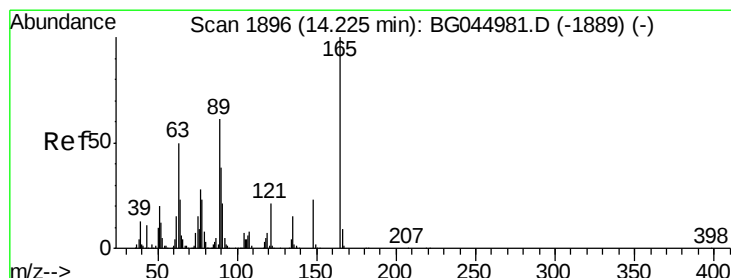
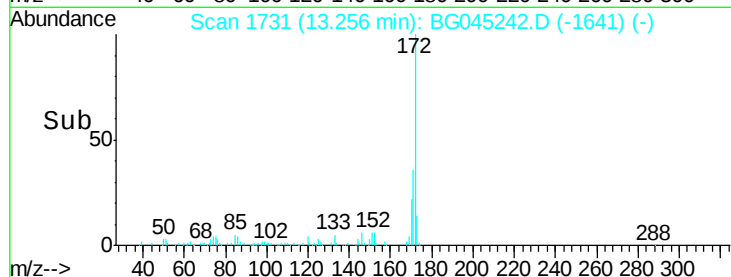
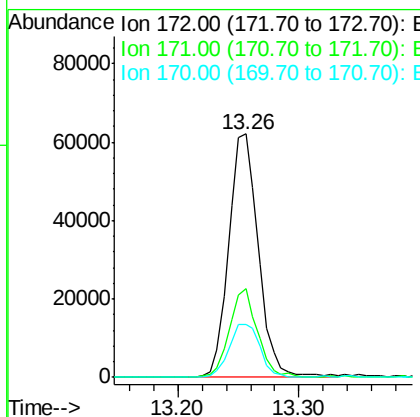
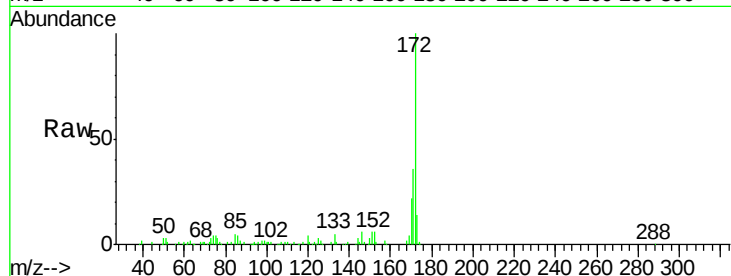




#45
2-Fluorobiphenyl
Concen: 5.880 ng
RT: 13.26 min Scan# 1731
Delta R.T. 0.00 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

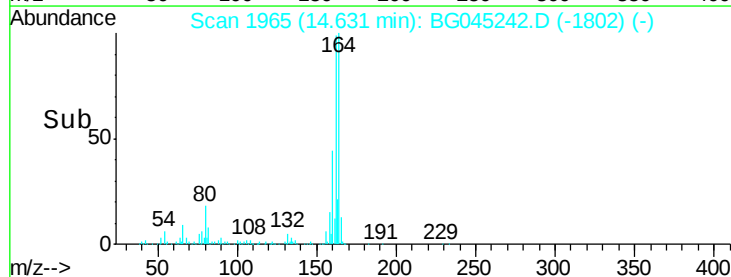
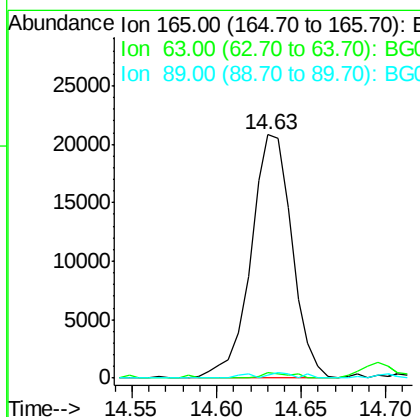
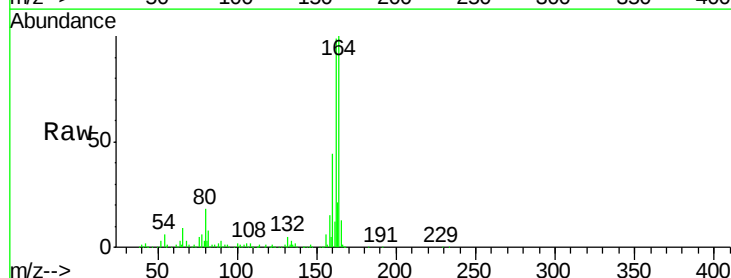
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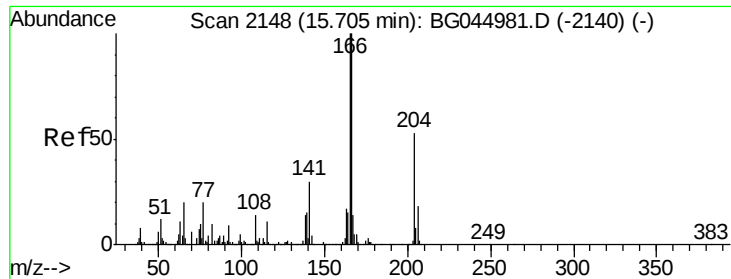
Tot Ion:172 Resp: 106340
Ion Ratio Lower Upper
172 100
171 36.3 30.6 46.0
170 21.8 20.5 30.7



#51
2,6-Dinitrotoluene
Concen: 7.272 ng
RT: 14.63 min Scan# 1965
Delta R.T. 0.43 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Tgt Ion:165 Resp: 35119
Ion Ratio Lower Upper
165 100
63 2.2 40.4 60.6#
89 1.2 49.1 73.7#





#58

Fluorene

Concen: 3.240 ng

RT: 15.68 min Scan# 2144

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

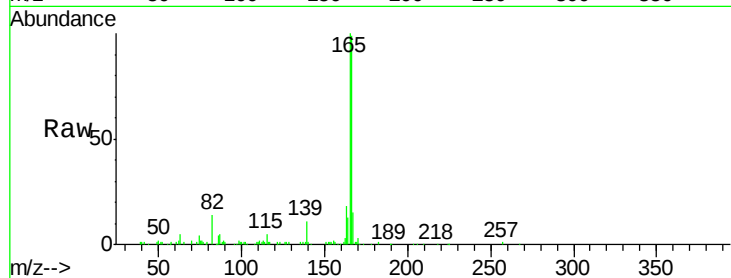
Tot Ion:166 Resp: 65492

Ion Ratio Lower Upper

166 100

165 100.7 79.9 119.9

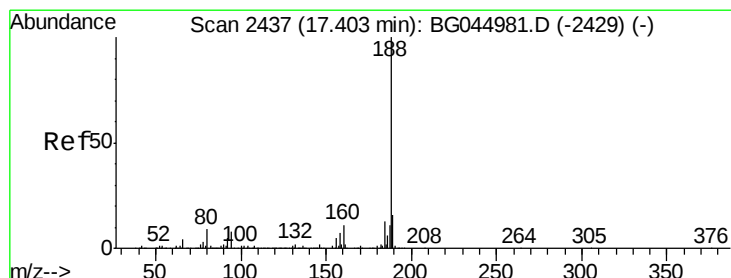
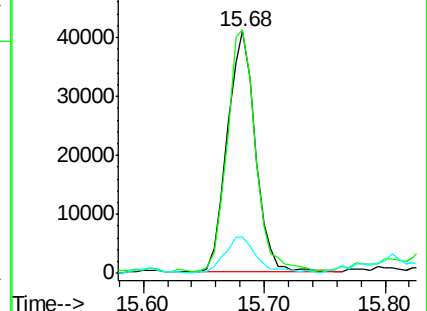
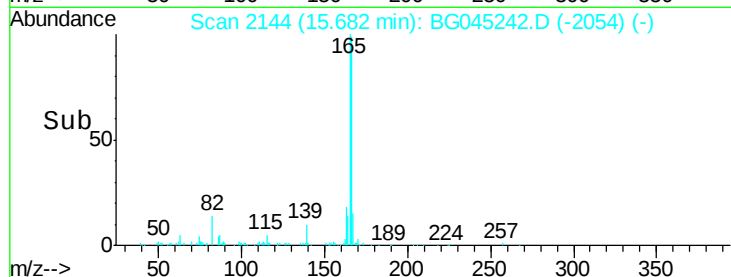
167 15.0 11.4 17.0



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: 17.38 min Scan# 2433

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

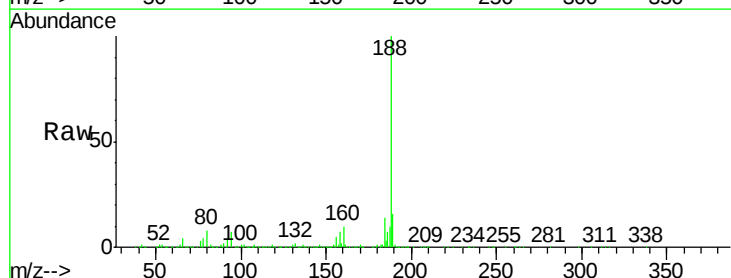
Tgt Ion:188 Resp: 542259

Ion Ratio Lower Upper

188 100

94 7.2 6.2 9.4

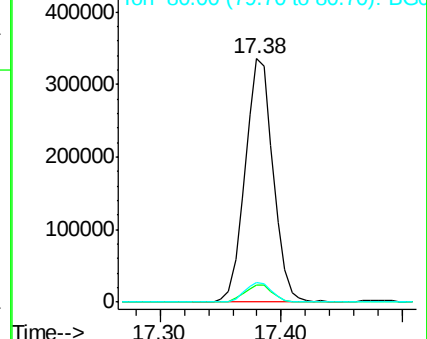
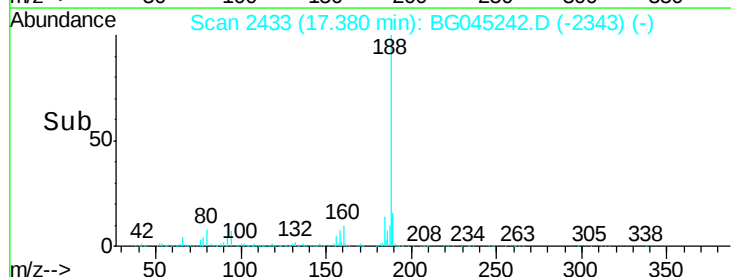
80 8.1 7.0 10.6

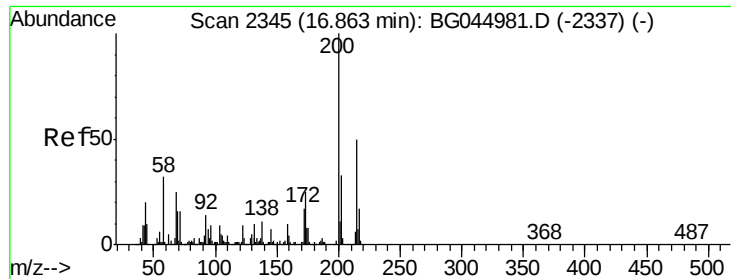


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0





#69

Atrazine

Concen: Below Cal

RT: 16.82 min Scan# 2338

Delta R.T. -0.02 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

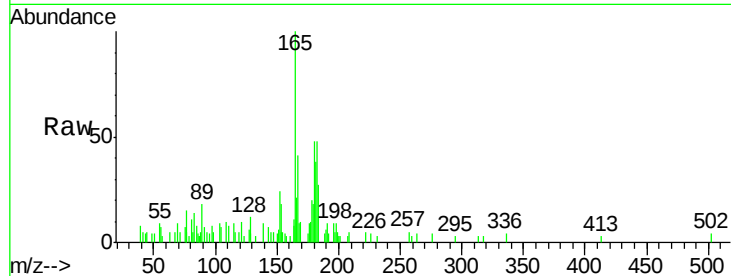
Tot Ion:200 Resp: 56

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

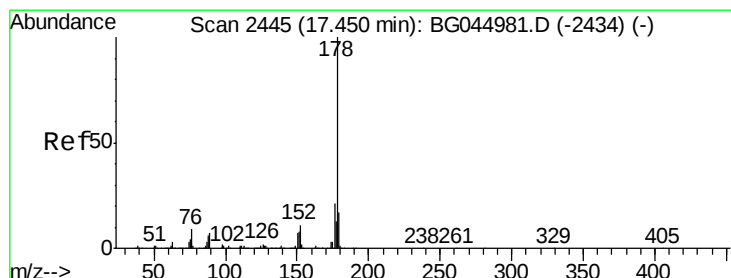
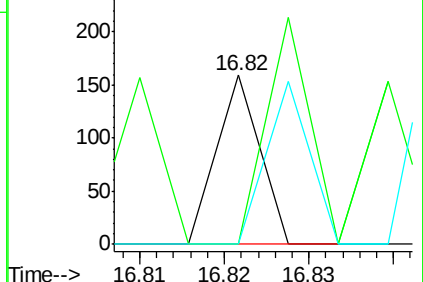
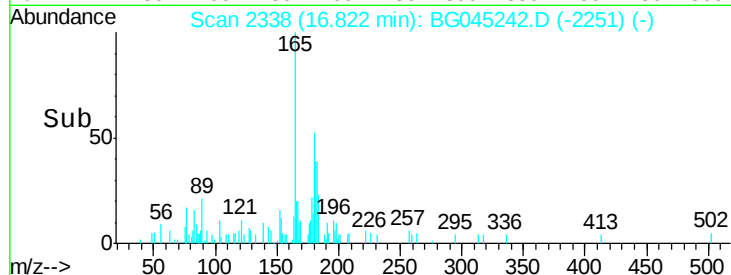
215 0.0 30.0 70.0#



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: 53.809 ng

RT: 17.43 min Scan# 2441

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

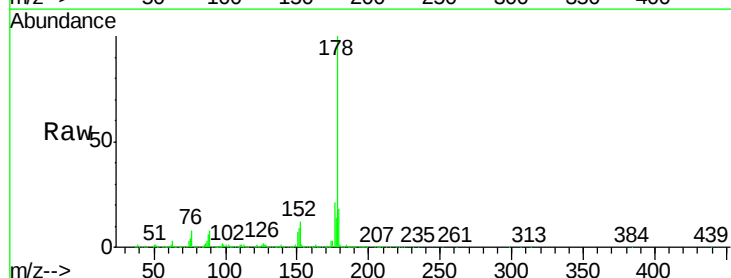
Tgt Ion:178 Resp: 1499394

Ion Ratio Lower Upper

178 100

176 21.4 16.8 25.2

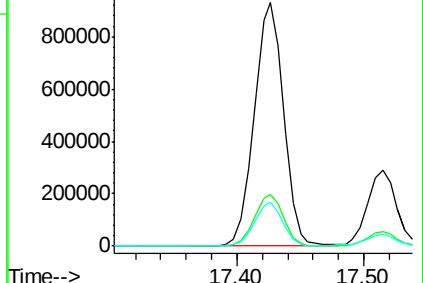
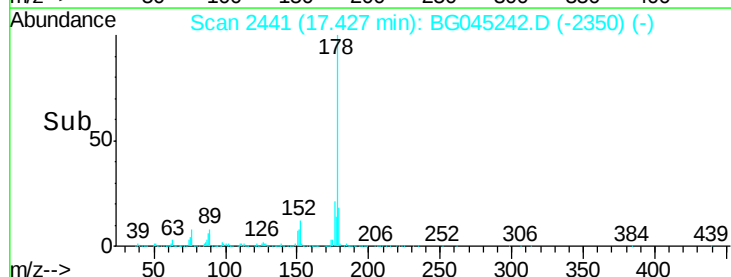
179 17.9 13.2 19.8

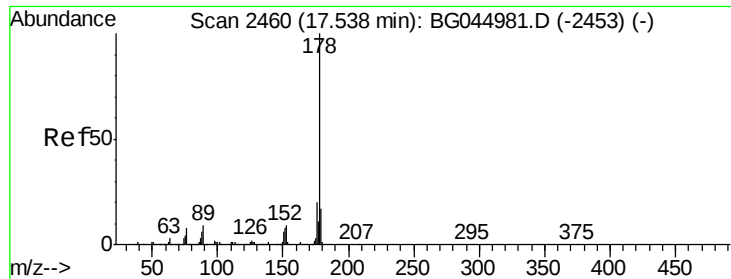


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 15.936 ng

RT: 17.51 min Scan# 2456

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

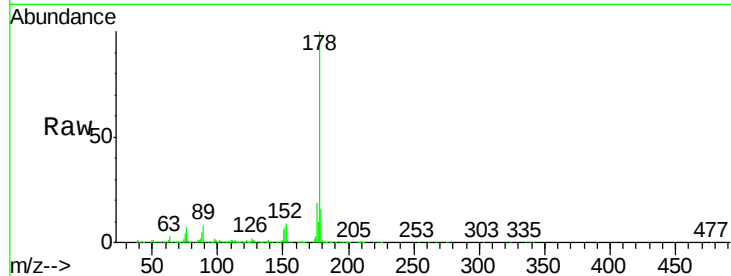
Tot Ion:178 Resp: 445428

Ion Ratio Lower Upper

178 100

176 18.6 16.0 24.0

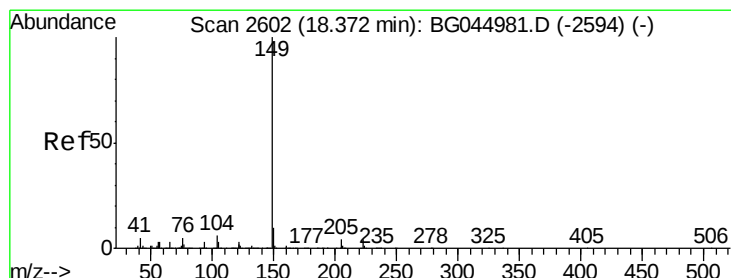
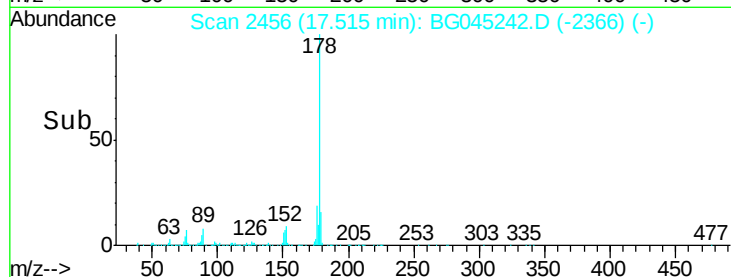
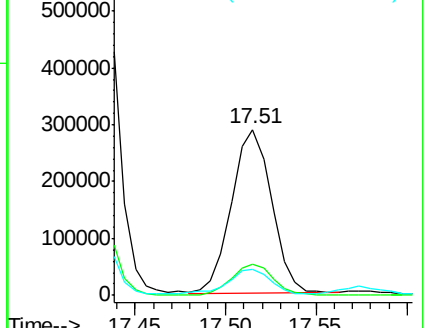
179 15.7 13.6 20.4



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: BG045242.D

Acq: 4 May 2020 20:33

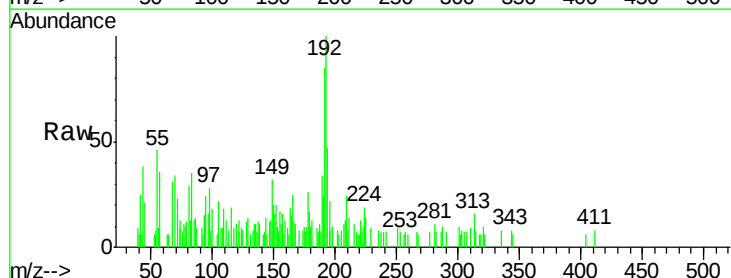
Tgt Ion:149 Resp: 1166

Ion Ratio Lower Upper

149 100

150 61.1 8.2 12.2#

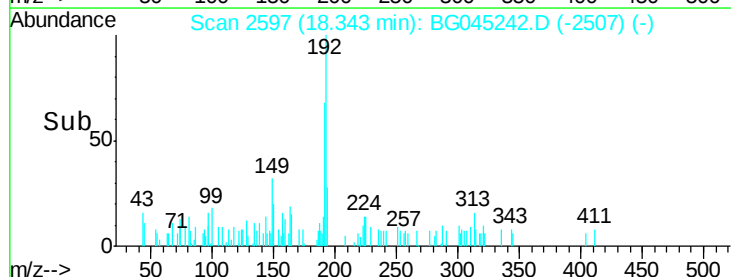
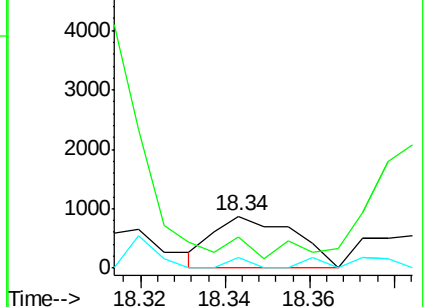
104 19.8 4.8 7.2#

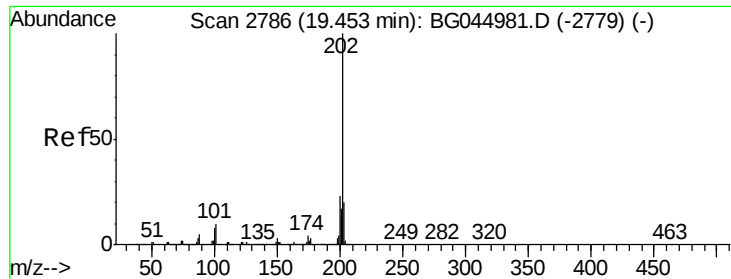


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 51.429 ng

RT: 19.44 min Scan# 2783

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

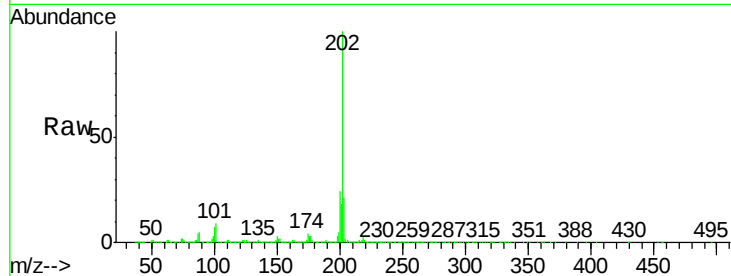
BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

Tot Ion:202 Resp: 165537

Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	29.6
203	20.7	0.0	39.7

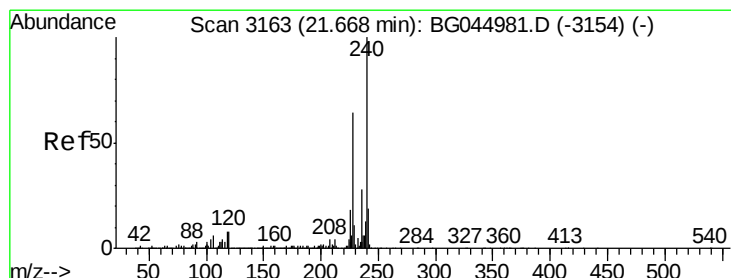
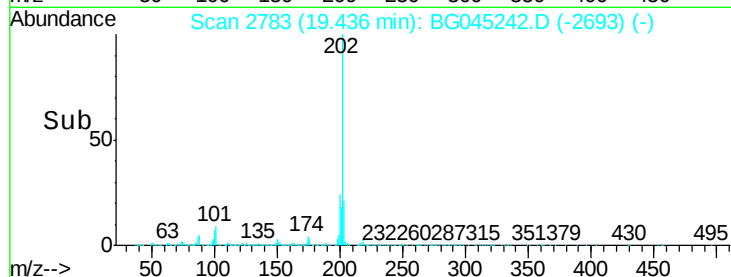


Abundance

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: 21.65 min Scan# 3160

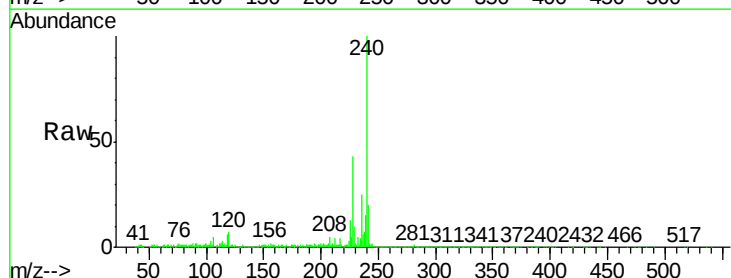
Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Tgt Ion:240 Resp: 458710

Ion	Ratio	Lower	Upper
240	100		
120	6.7	6.6	10.0
236	25.2	22.2	33.2

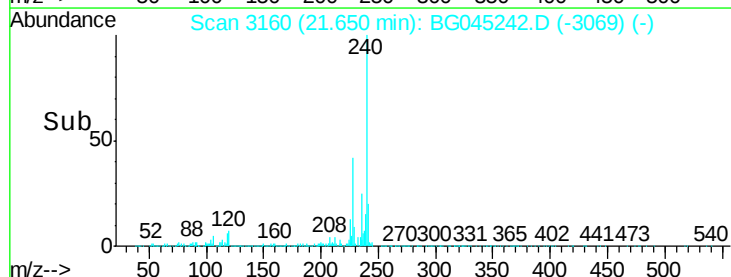


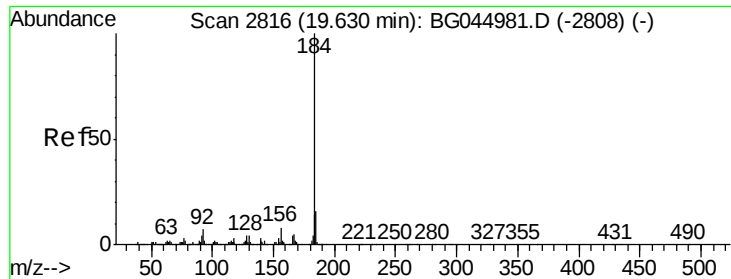
Abundance

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: 19.62 min Scan# 2814

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

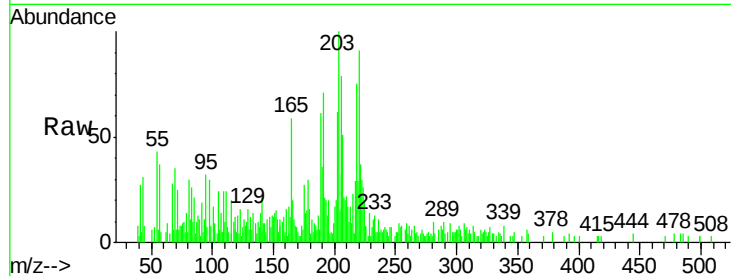
Tot Ion:184 Resp: 461

Ion Ratio Lower Upper

184 100

185 67.2 12.6 19.0#

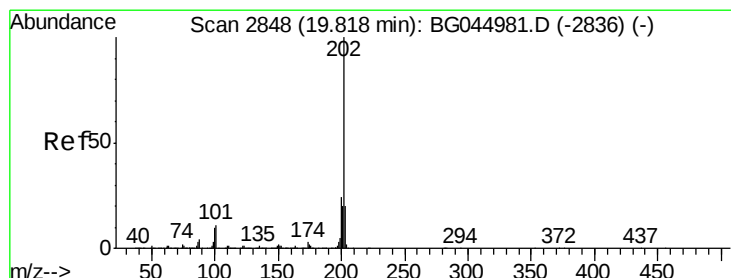
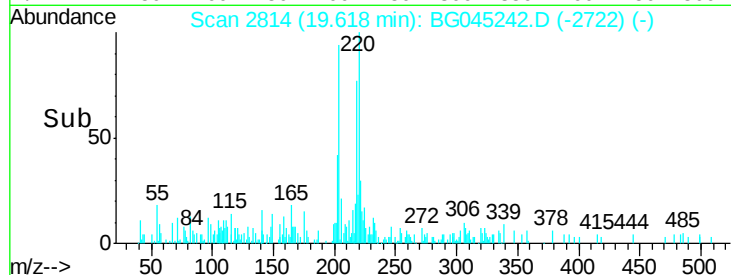
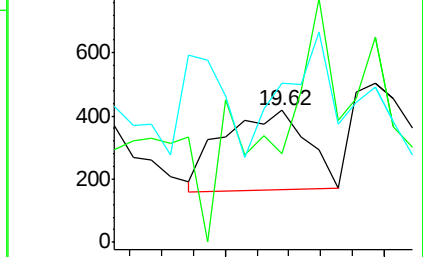
183 120.1 11.3 16.9#



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: 61.251 ng

RT: 19.80 min Scan# 2845

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

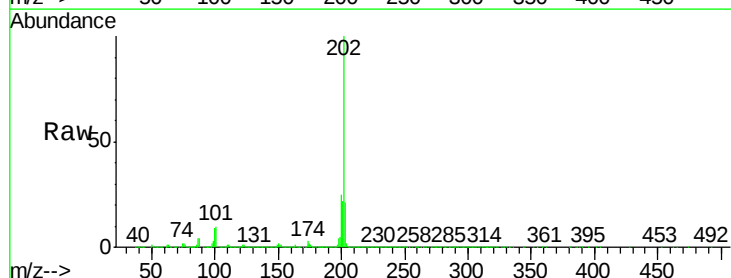
Tgt Ion:202 Resp: 1936967

Ion Ratio Lower Upper

202 100

200 24.8 19.0 28.6

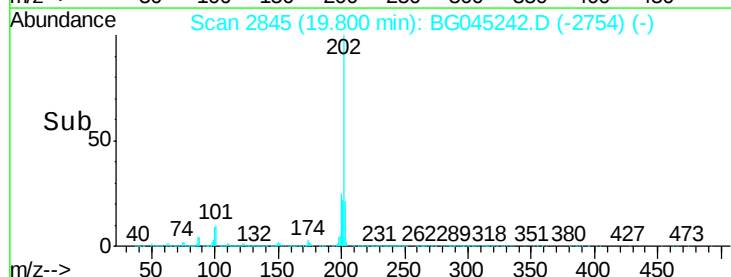
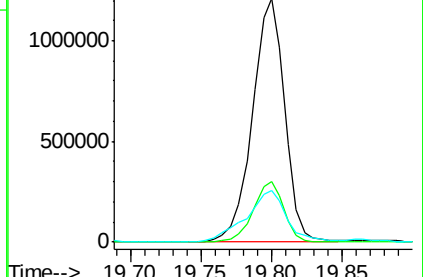
203 21.1 16.1 24.1

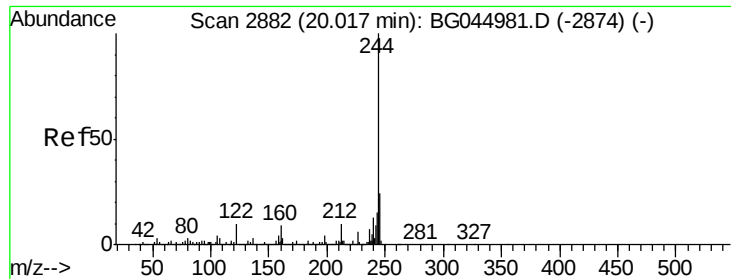


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 7.012 ng

RT: 19.99 min Scan# 2878

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

Tot Ion:244 Resp: 147580

Ion Ratio Lower Upper

244 100

212 8.3

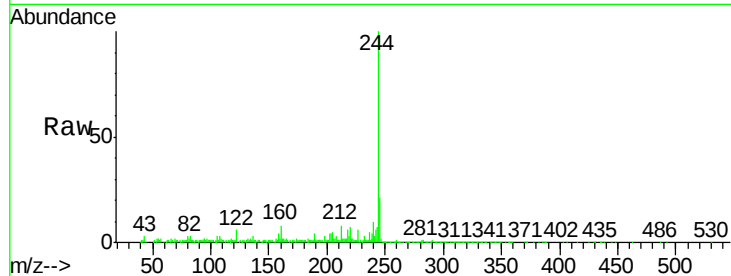
7.9

11.9

122 6.0

7.7

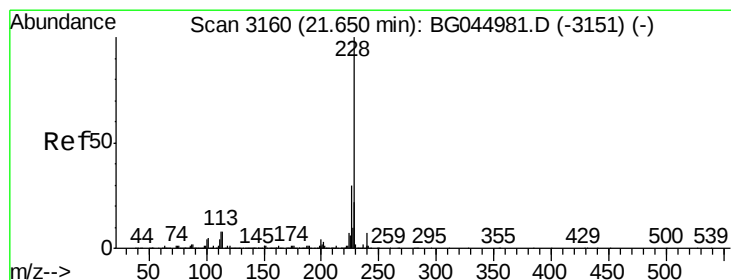
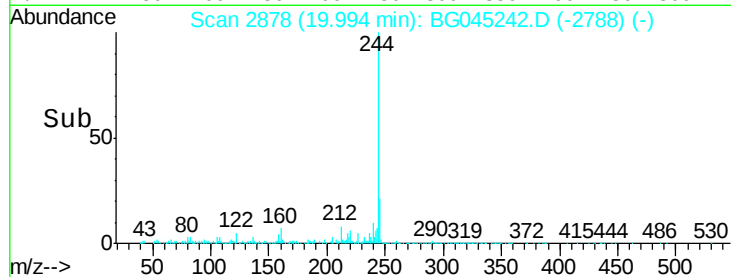
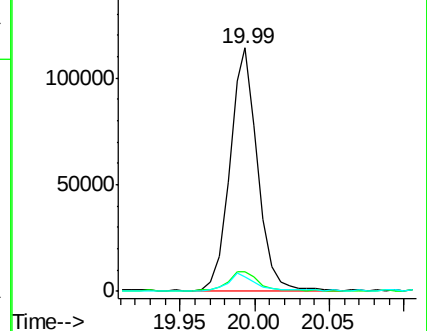
11.5#



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: 30.782 ng

RT: 21.63 min Scan# 3157

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Tgt Ion:228 Resp: 915174

Ion Ratio Lower Upper

228 100

226 28.8

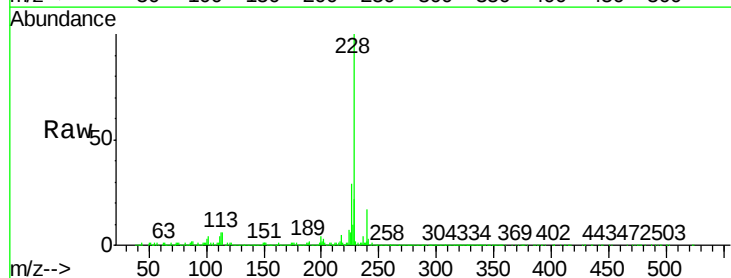
24.0

36.0

229 21.8

17.5

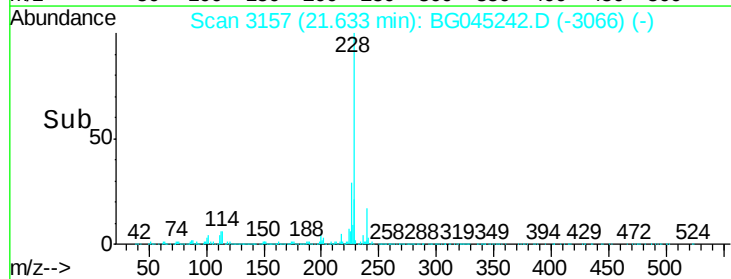
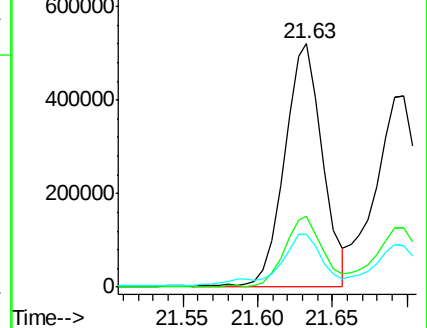
26.3

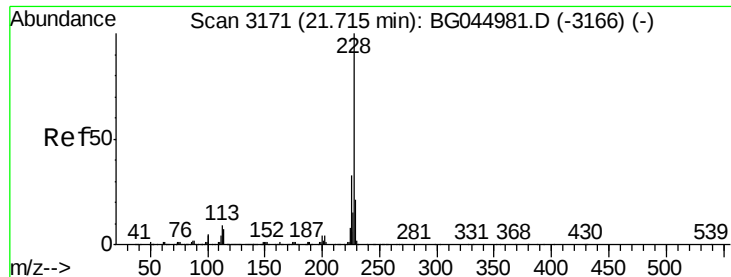


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 26.990 ng

RT: 21.70 min Scan# 3168

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

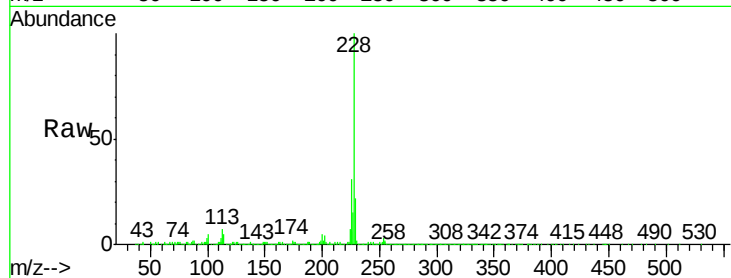
Tot Ion:228 Resp: 771004

Ion	Ratio	Lower	Upper
228	100		
226	30.7	26.2	39.4
229	21.9	17.0	25.6

228 100

226 30.7 26.2 39.4

229 21.9 17.0 25.6

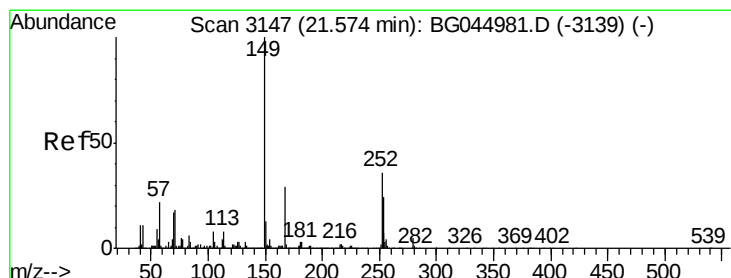
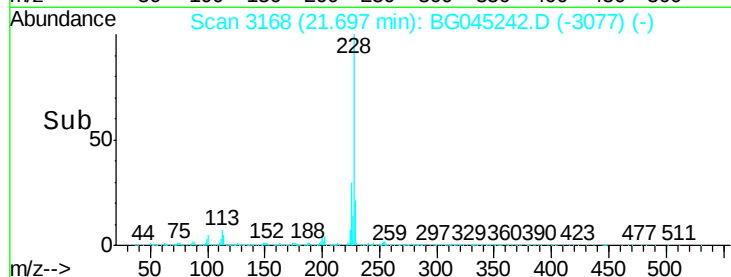
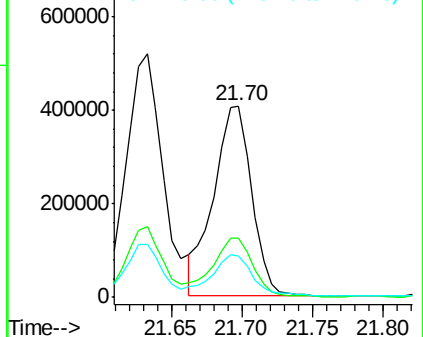


Abundance

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



#84

Bis(2-ethylhexyl)phthalate

Concen: 11.217 ng

RT: 21.54 min Scan# 3142

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

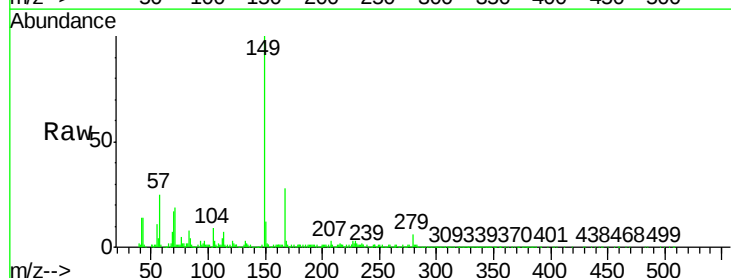
Tgt Ion:149 Resp: 202228

Ion	Ratio	Lower	Upper
149	100		
167	28.0	23.4	35.0
279	6.5	4.3	6.5

149 100

167 28.0 23.4 35.0

279 6.5 4.3 6.5

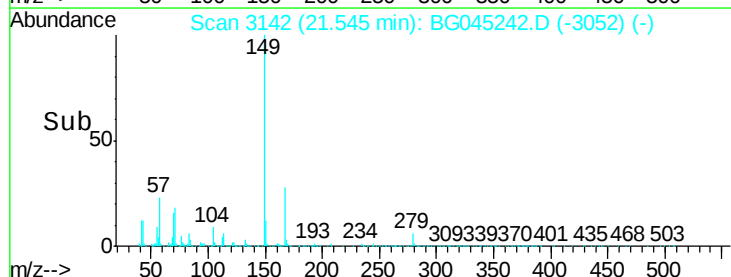
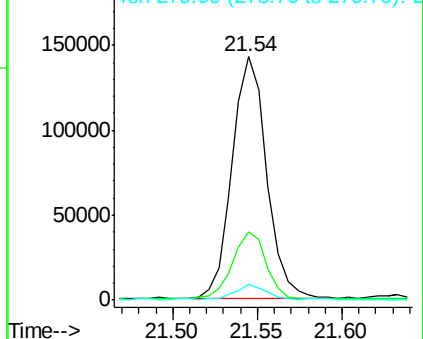


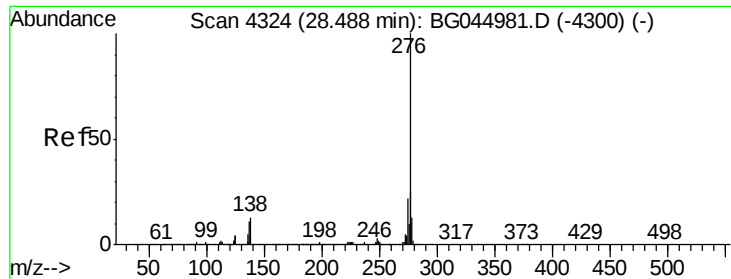
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

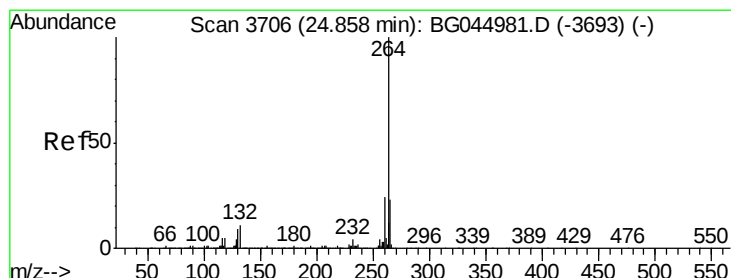
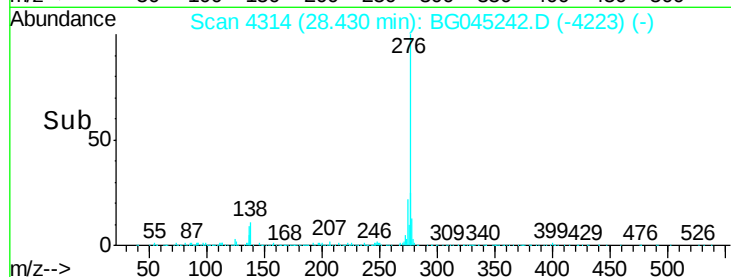
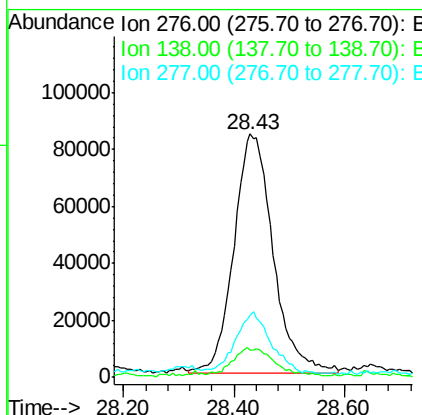
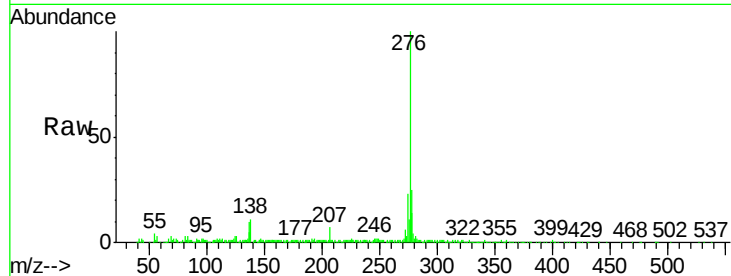




#86
Indeno(1,2,3-cd)pyrene
Concen: 10.991 ng
RT: 28.43 min Scan# 4314
Delta R.T. 0.01 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

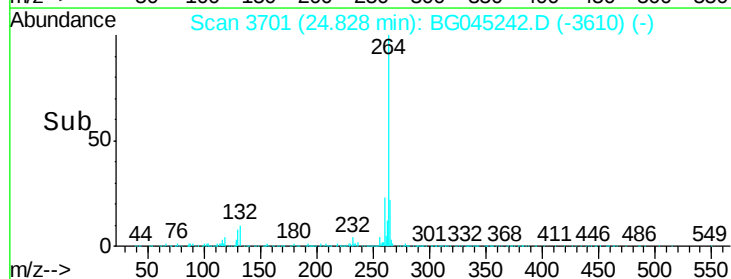
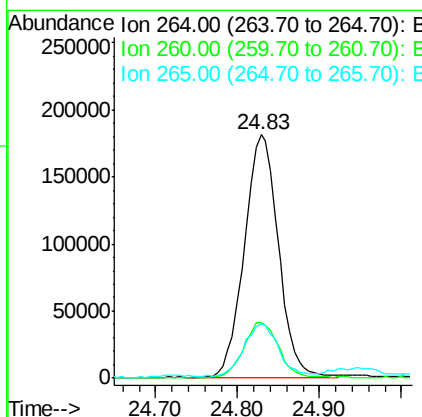
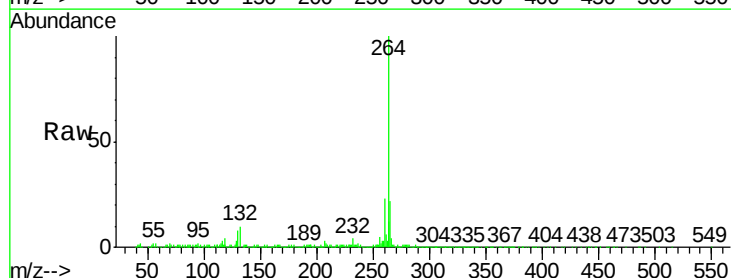
Instrument :
BNA_G
ClientSampleId :
RECOVERED-CRUSH-AGGREGAT

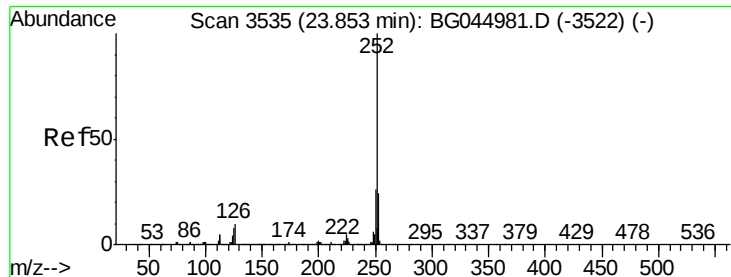
Tot Ion:276 Resp: 416841
Ion Ratio Lower Upper
276 100
138 12.5 9.6 14.4
277 22.4 20.6 31.0



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.83 min Scan# 3701
Delta R.T. 0.01 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Tgt Ion:264 Resp: 525942
Ion Ratio Lower Upper
264 100
260 22.9 19.2 28.8
265 22.2 19.0 28.4

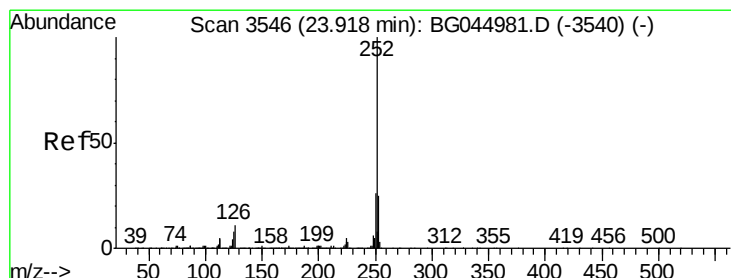
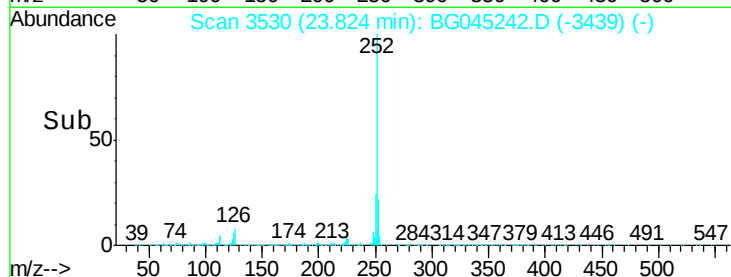
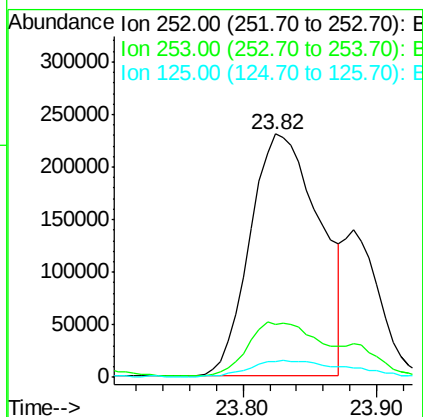
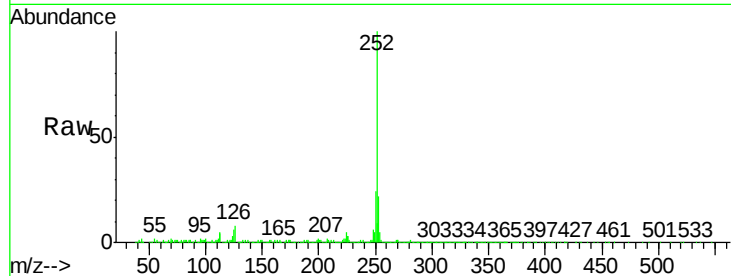




#88
Benzo(b)fluoranthene
Concen: 25.247 ng
RT: 23.82 min Scan# 3530
Delta R.T. 0.01 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

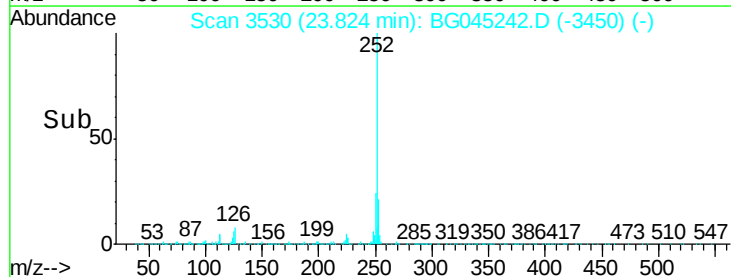
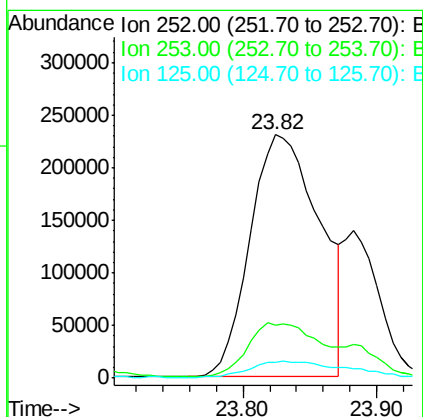
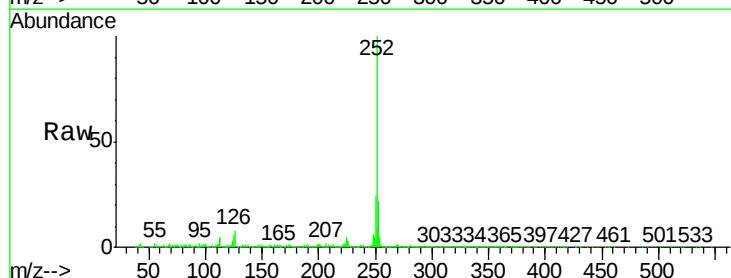
Instrument :
BNA_G
ClientSampleId :
RECOVERED-CRUSH-AGGREGAT

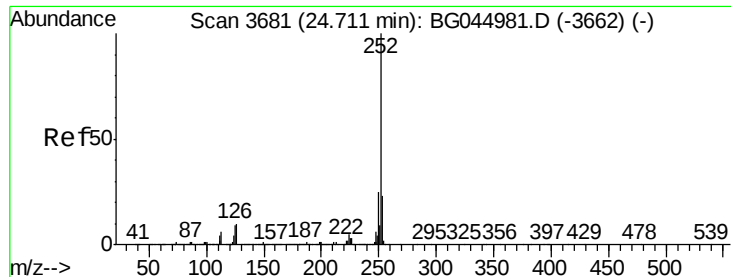
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.8	28.2
125	6.3	6.2	9.4



#89
Benzo(k)fluoranthene
Concen: 26.548 ng
RT: 23.82 min Scan# 3530
Delta R.T. -0.06 min
Lab File: BG045242.D
Acq: 4 May 2020 20:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.2	28.8
125	6.3	5.9	8.9





#90

Benzo(a)pyrene

Concen: 25.185 ng

RT: 24.68 min Scan# 3676

Delta R.T. 0.01 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

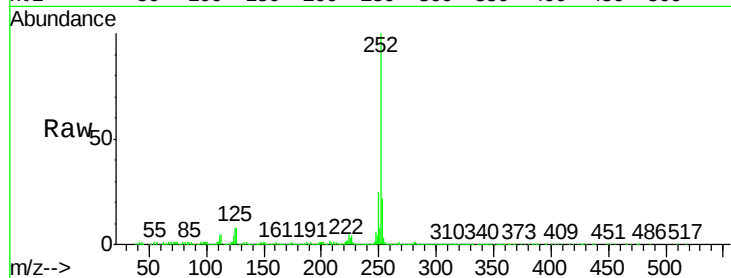
Tot Ion:252 Resp: 783375

Ion Ratio Lower Upper

252 100

253 21.6 18.3 27.5

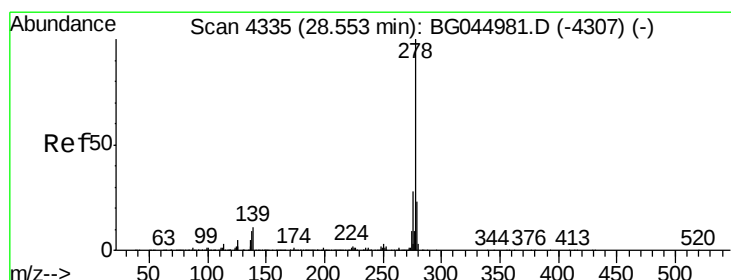
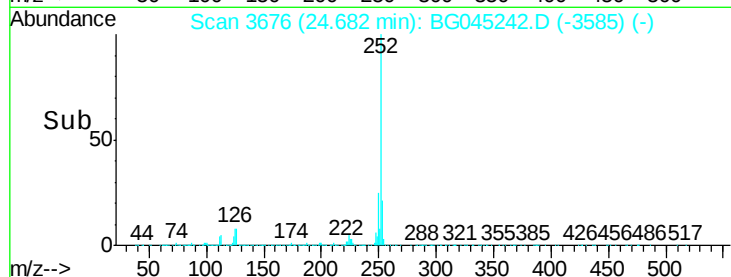
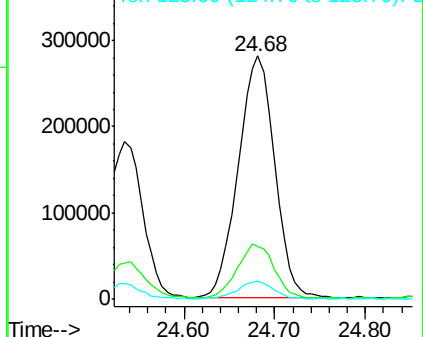
125 7.7 7.0 10.6



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



#91

Dibenzo(a,h)anthracene

Concen: 2.870 ng

RT: 28.90 min Scan# 4394

Delta R.T. 0.41 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

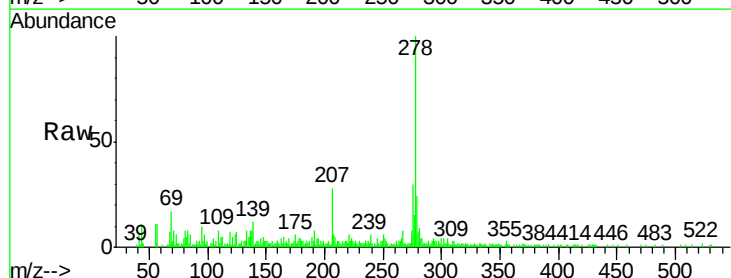
Tgt Ion:278 Resp: 89969

Ion Ratio Lower Upper

278 100

139 11.8 9.0 13.6

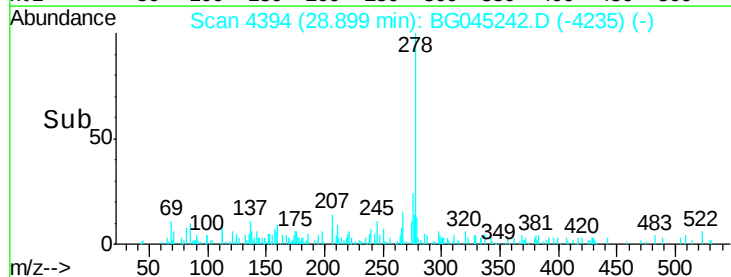
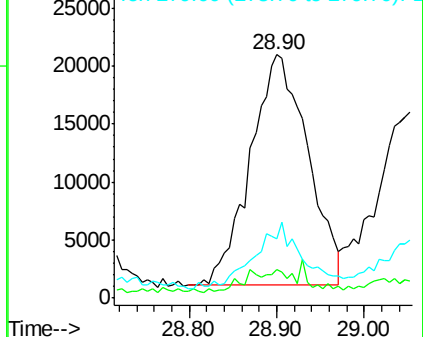
279 24.4 18.4 27.6

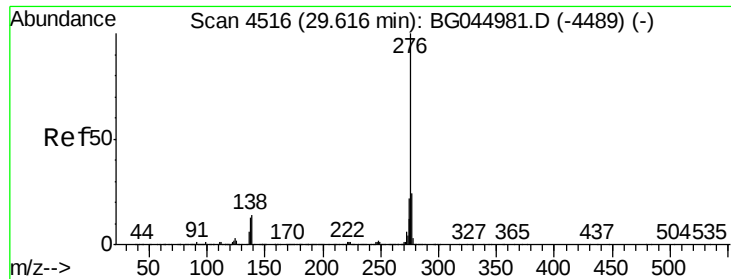


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 14.061 ng

RT: 29.55 min Scan# 4505

Delta R.T. 0.00 min

Lab File: BG045242.D

Acq: 4 May 2020 20:33

Instrument :

BNA_G

ClientSampleId :

RECOVERED-CRUSH-AGGREGAT

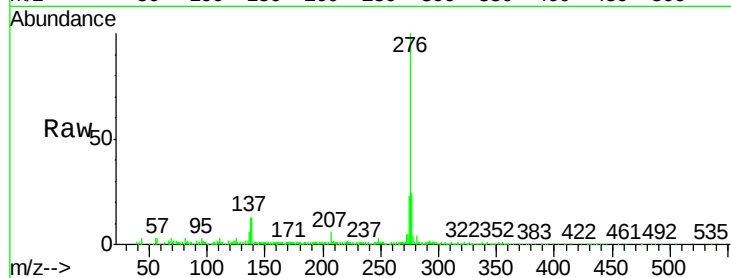
Tot Ion:276 Resp: 441850

Ion Ratio Lower Upper

276 100

277 23.8 19.3 28.9

138 12.9 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

