

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082719\
 Data File : BG042516.D
 Acq On : 27 Aug 2019 22:43
 Operator : HP/JU
 Sample : K4549-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 28 03:29:01 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	32710	20.00	ng	-0.01
21) Naphthalene-d8	10.82	136	130994	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	99348	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	249641	20.00	ng	-0.01
76) Chrysene-d12	21.68	240	302256	20.00	ng	-0.01
87) Perylene-d12	24.93	264	363157	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.55	112	112082	69.40	ng	-0.01
7) Phenol-d6	7.16	99	157068	72.00	ng	-0.01
23) Nitrobenzene-d5	9.16	82	87092	45.94	ng	-0.01
42) 2,4,6-Tribromophenol	16.15	330	101903	72.17	ng	-0.01
45) 2-Fluorobiphenyl	13.28	172	261079	44.45	ng	0.00
79) Terphenyl-d14	20.02	244	540283	38.64	ng	0.00

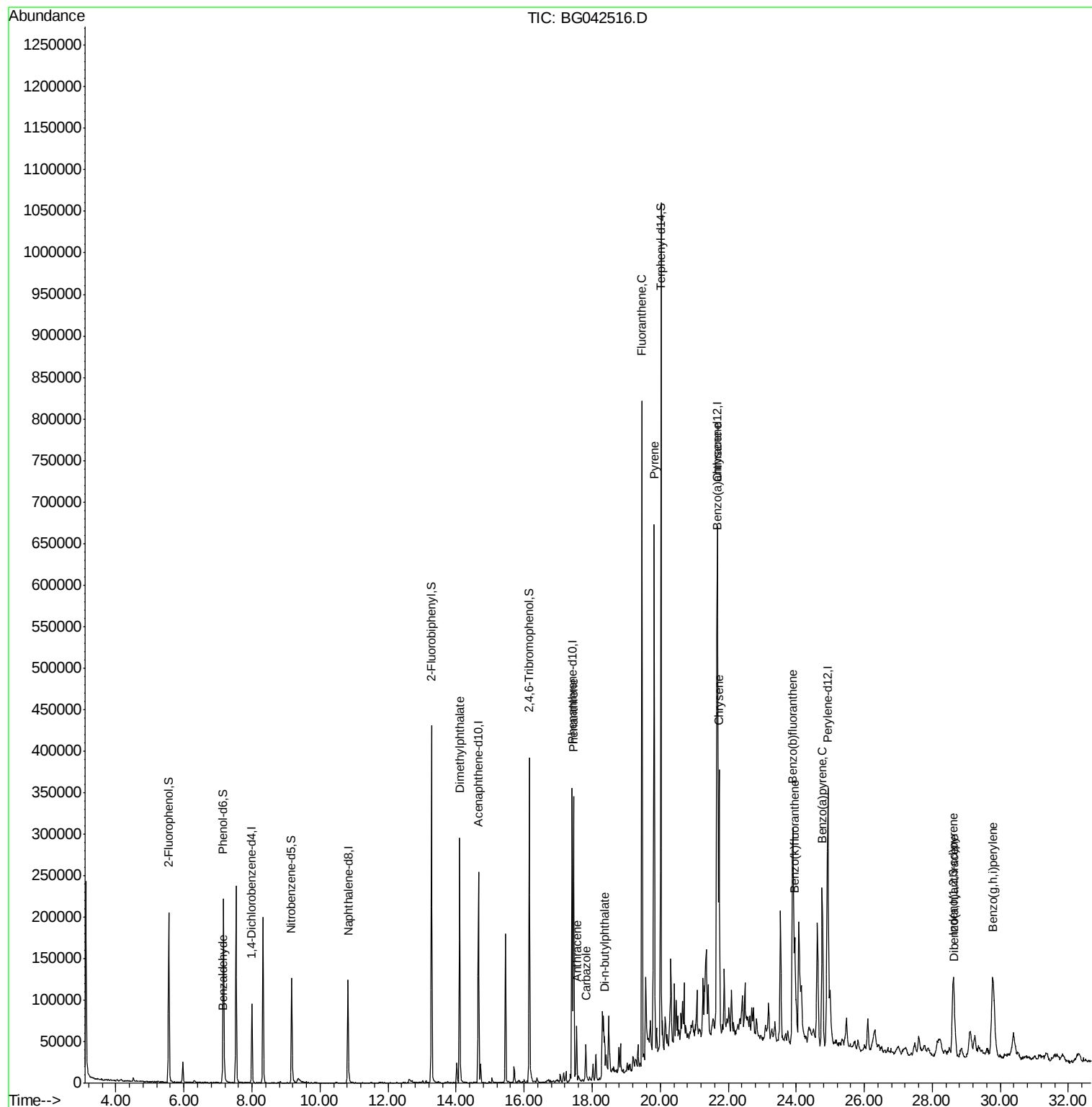
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.13	77	4214	3.858	ng	# 88
50) Dimethylphthalate	14.10	163	239749	33.446	ng	99
71) Phenanthrene	17.45	178	239507	19.315	ng	97
72) Anthracene	17.54	178	48363	3.907	ng	97
73) Carbazole	17.82	167	35079	3.180	ng	96
74) Di-n-butylphthalate	18.37	149	27305	2.094	ng	# 97
75) Fluoranthene	19.46	202	532372	35.179	ng	97
78) Pyrene	19.83	202	446685	24.105	ng	98
81) Benzo(a)anthracene	21.67	228	250669	13.633	ng	97
83) Chrysene	21.73	228	255264	14.395	ng	98
86) Indeno(1,2,3-cd)pyrene	28.61	276	170930	7.093	ng	99
88) Benzo(b)fluoranthene	23.90	252	351440	17.603	ng	100
89) Benzo(k)fluoranthene	23.96	252	117138m	6.104	ng	
90) Benzo(a)pyrene	24.76	252	235780	12.445	ng	99
91) Dibenzo(a,h)anthracene	28.66	278	42227m	2.201	ng	
92) Benzo(g,h,i)perylene	29.77	276	170473	8.886	ng	99

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

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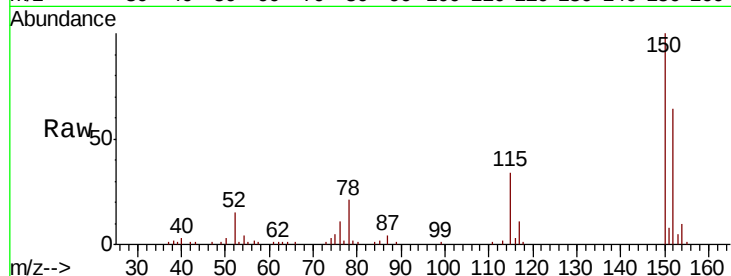


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.99 min Scan# 835
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.4	188.0
115	53.9	38.5	57.7

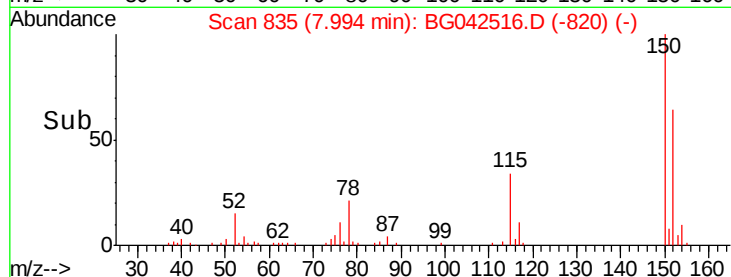
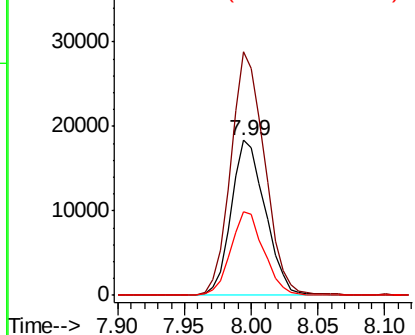


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

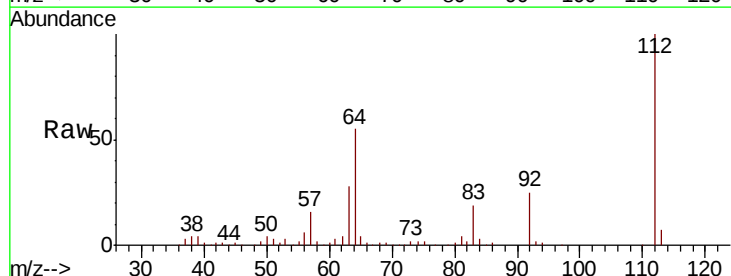
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 69.397 ng
RT: 5.55 min Scan# 419
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	42.8	64.2
63	28.2	22.7	34.1

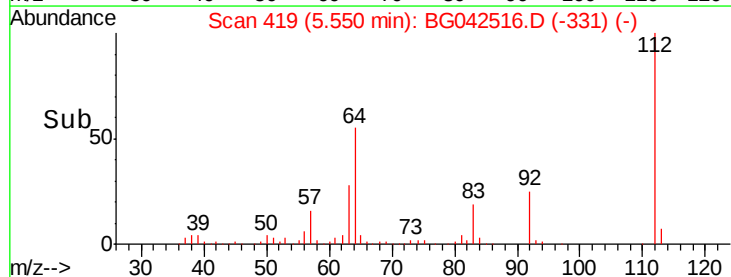
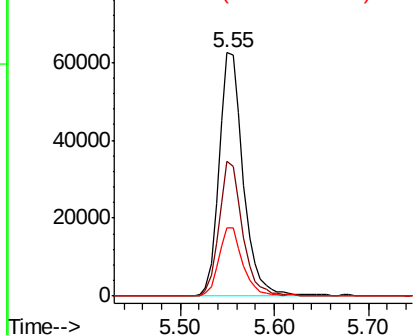


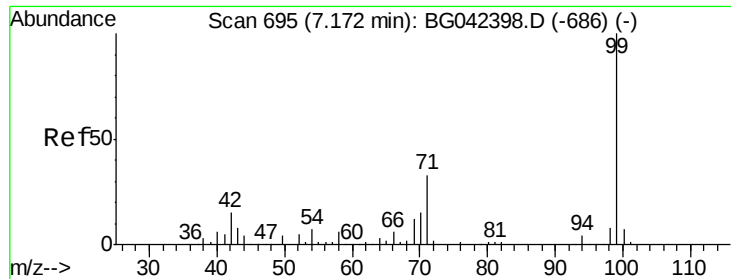
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 71.997 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

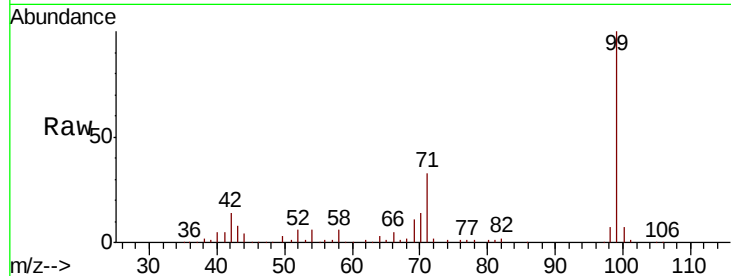
Tot Ion: 99 Resp: 157068

Ion Ratio Lower Upper

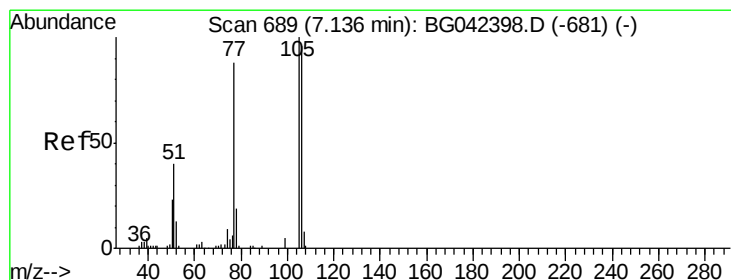
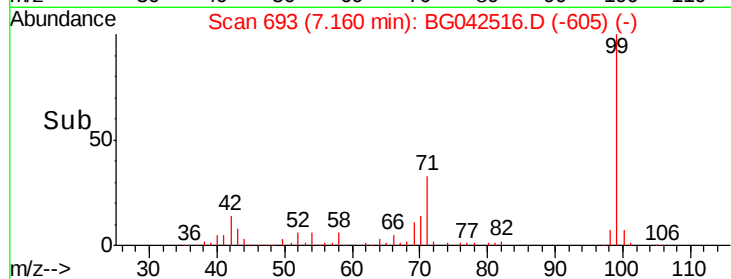
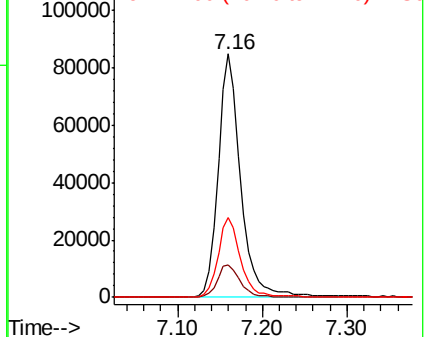
99 100

42 13.5 12.0 18.0

71 32.6 26.3 39.5



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



#9

Benzaldehyde

Concen: 3.858 ng

RT: 7.13 min Scan# 688

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

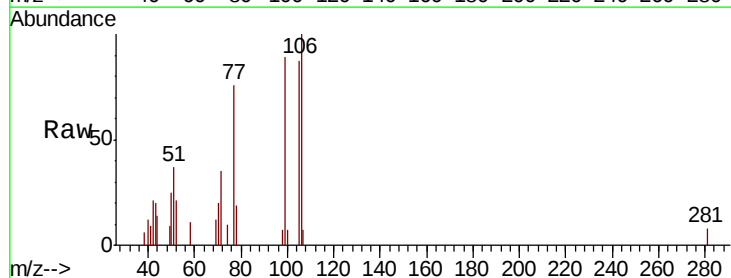
Tgt Ion: 77 Resp: 4214

Ion Ratio Lower Upper

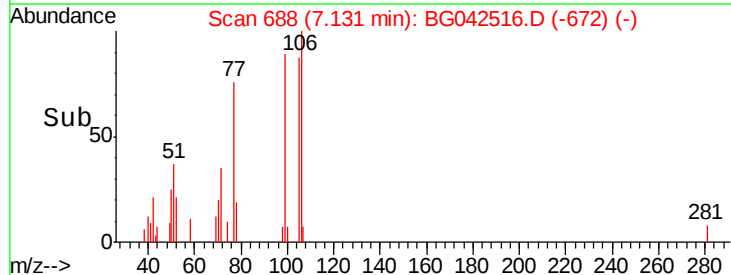
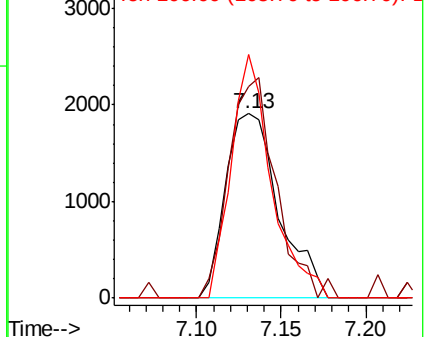
77 100

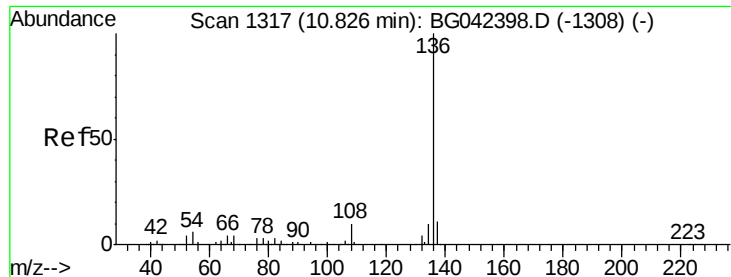
105 115.1 93.4 133.4

106 132.2 88.4 128.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): BGC
Ion 106.00 (105.70 to 106.70): BGC

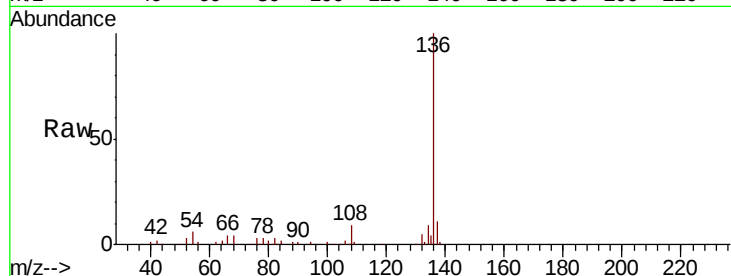




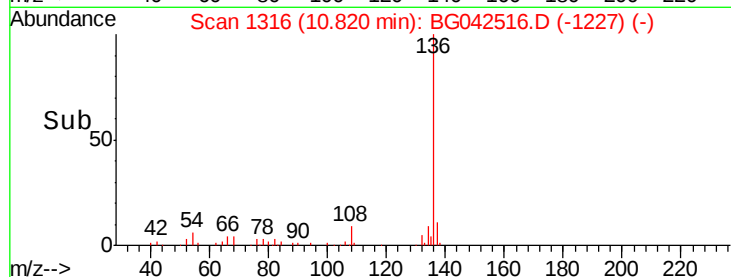
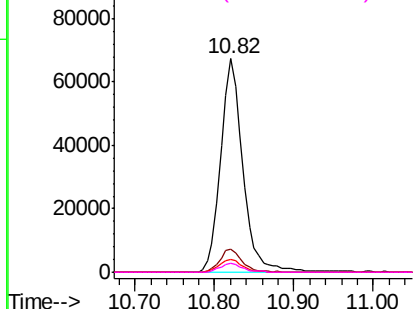
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.82 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Instrument :
BNA_G
ClientSampled :

Tot Ion:136	Resp:	130994
Ion	Ratio	Lower Upper
136	100	
137	10.6	8.7 13.1
54	6.0	4.9 7.3
68	4.4	3.6 5.4

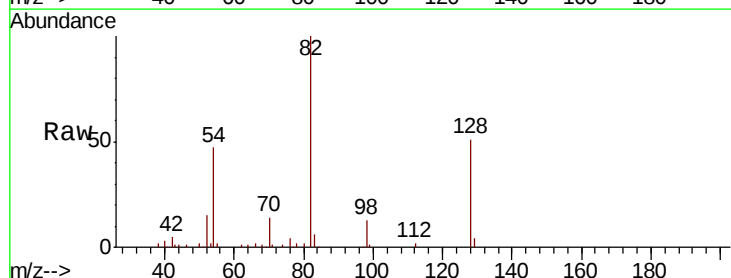


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BG
Ion 68.00 (67.70 to 68.70): BG

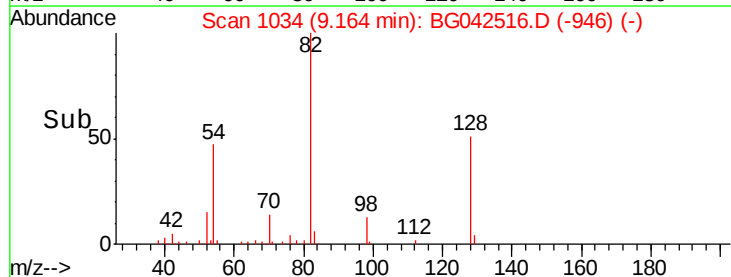
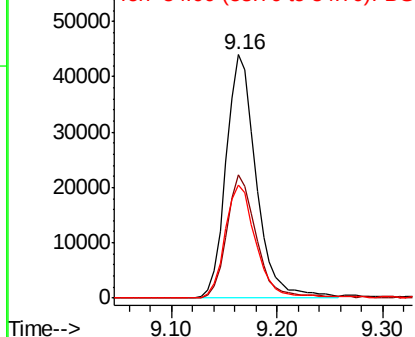


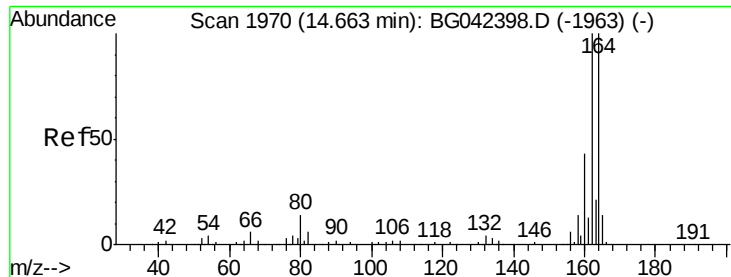
#23
Nitrobenzene-d5
Concen: 45.944 ng
RT: 9.16 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion: 82	Resp:	87092
Ion	Ratio	Lower Upper
82	100	
128	50.8	40.7 61.1
54	46.6	36.3 54.5



Abundance Ion 82.00 (81.70 to 82.70): BG
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BG





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

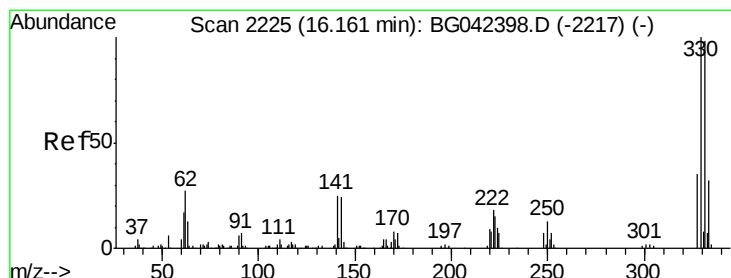
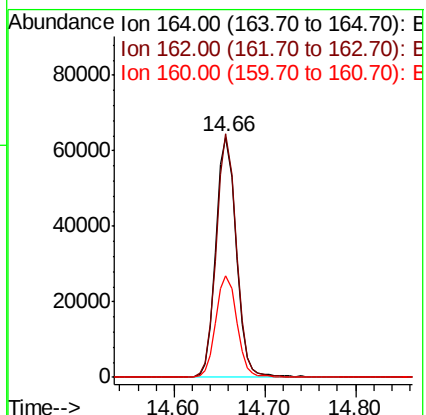
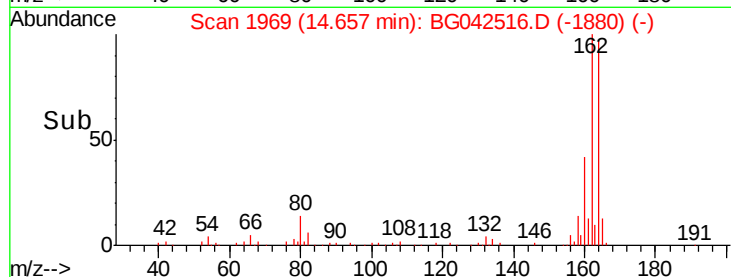
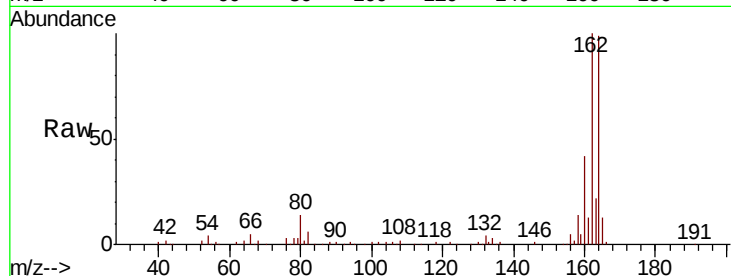
Instrument :

BNA_G

ClientSampleId :

Tot Ion:164 Resp: 99348

Ion	Ratio	Lower	Upper
164	100		
162	101.4	79.9	119.9
160	42.2	34.3	51.5



#42

2,4,6-Tribromophenol

Concen: 72.166 ng

RT: 16.15 min Scan# 2223

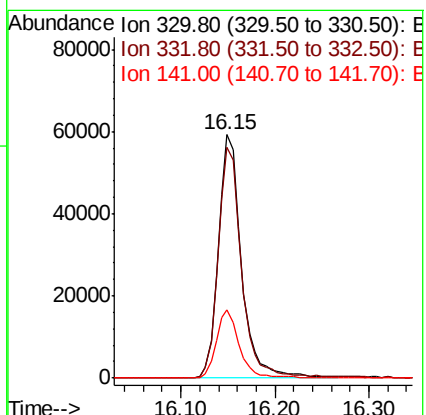
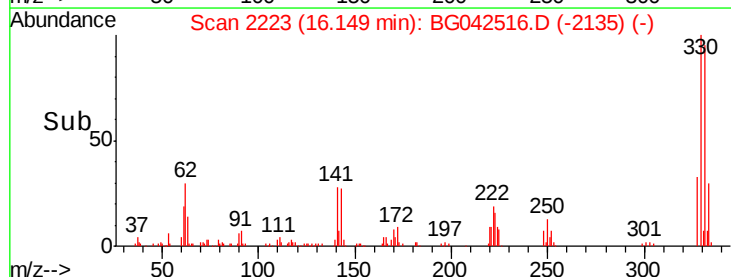
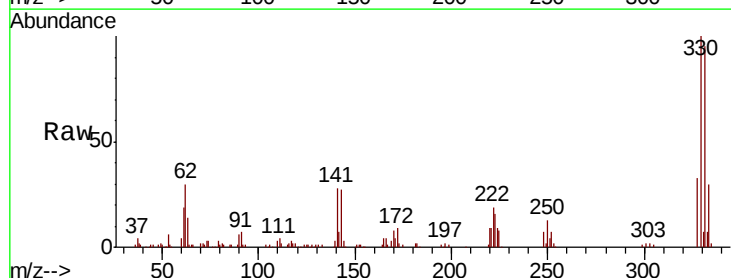
Delta R.T. -0.01 min

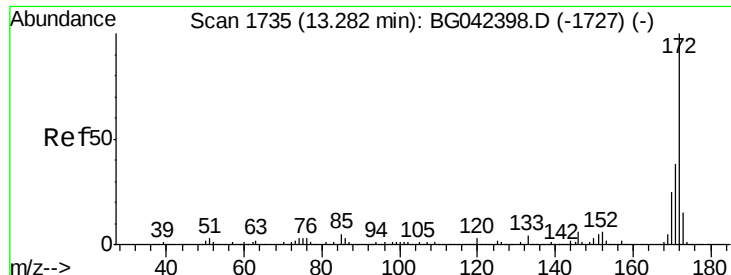
Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Tgt Ion:330 Resp: 101903

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	27.7	21.4	32.0

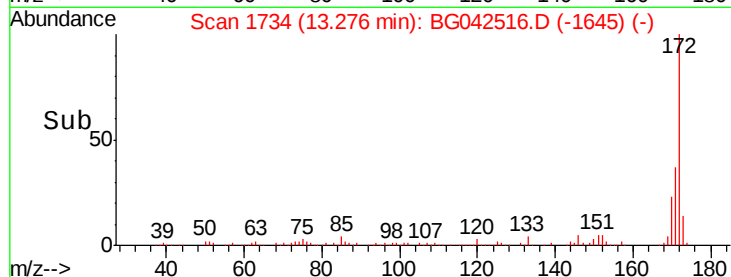
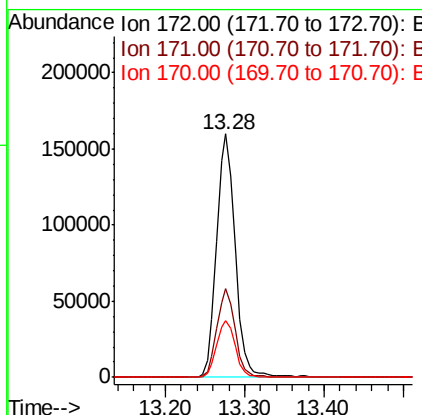
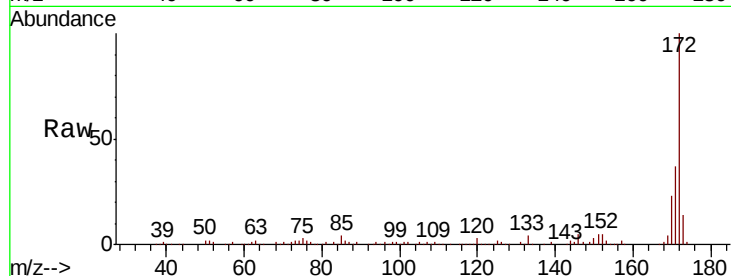




#45
 2-Fluorobiphenyl
 Concen: 44.446 ng
 RT: 13.28 min Scan# 1734
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

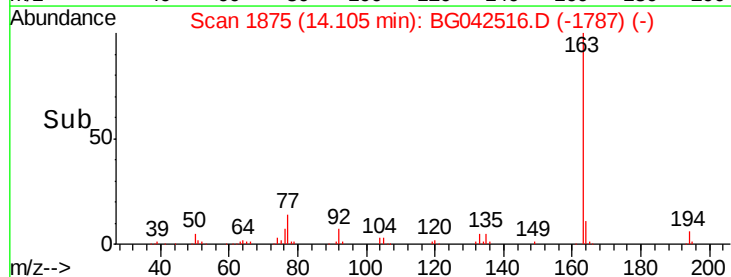
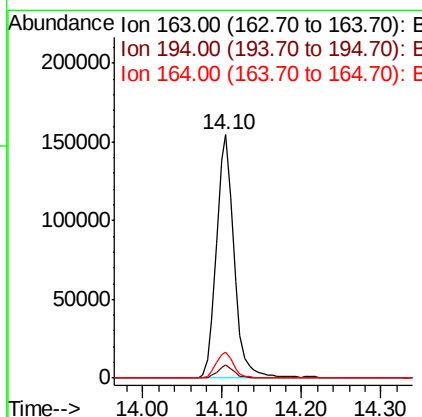
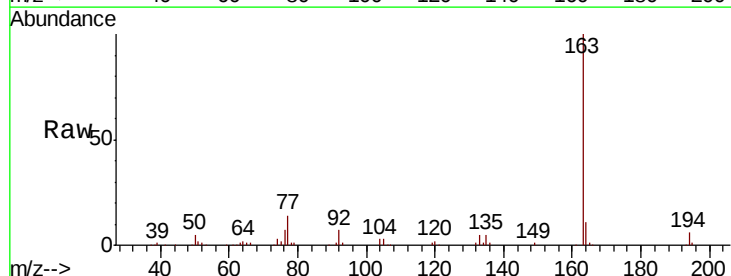
Instrument :
 BNA_G
 ClientSampleId :

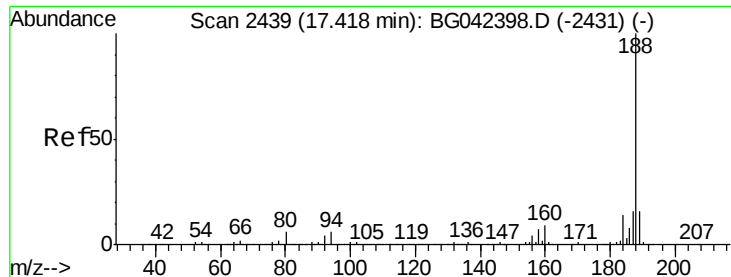
Tot Ion:172 Resp: 261079
 Ion Ratio Lower Upper
 172 100
 171 36.5 30.5 45.7
 170 23.1 20.2 30.2



#50
 Dimethylphthalate
 Concen: 33.446 ng
 RT: 14.10 min Scan# 1875
 Delta R.T. -0.01 min
 Lab File: BG042516.D
 Acq: 27 Aug 2019 22:43

Tgt Ion:163 Resp: 239749
 Ion Ratio Lower Upper
 163 100
 194 5.5 4.2 6.2
 164 10.6 8.8 13.2

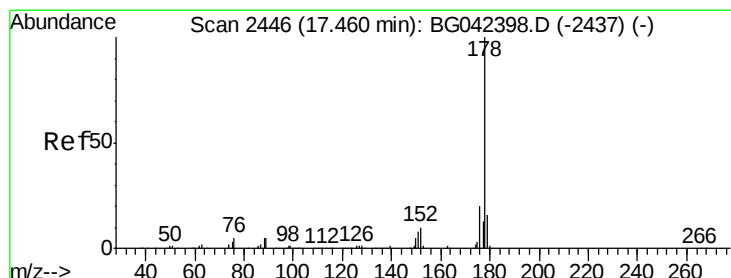
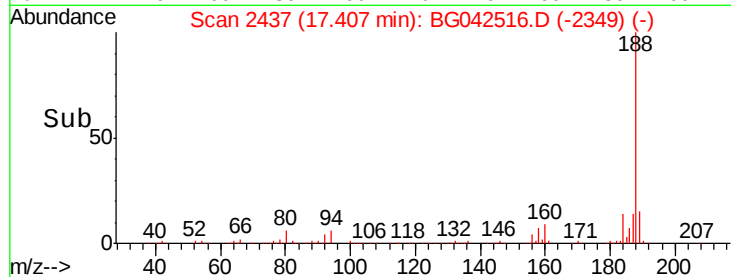
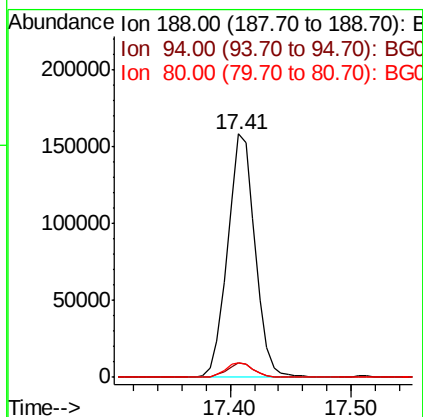
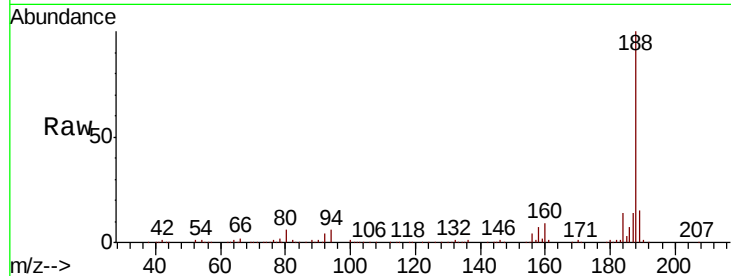




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.41 min Scan# 2437
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

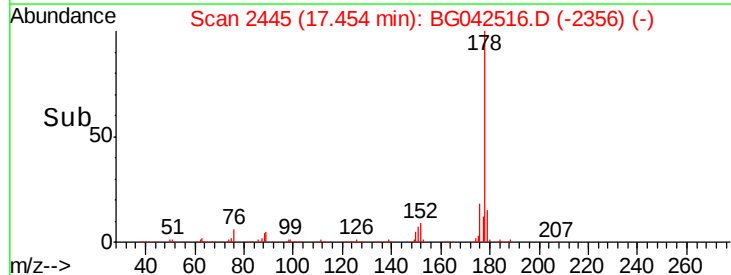
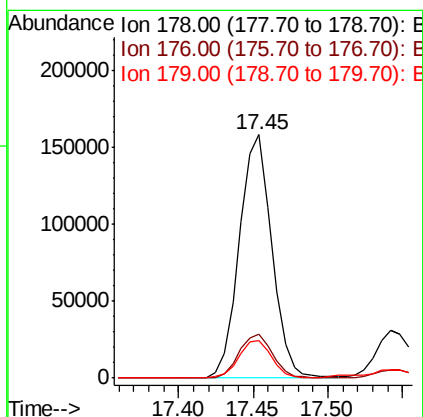
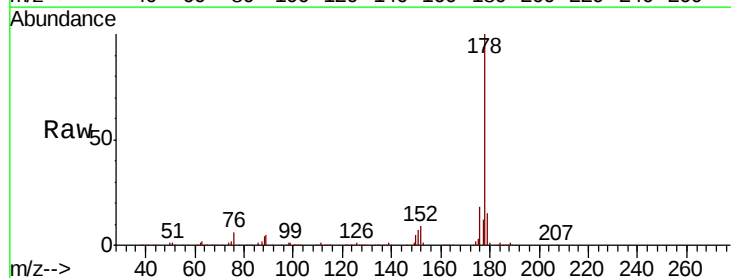
Instrument :
BNA_G
ClientSampleId :

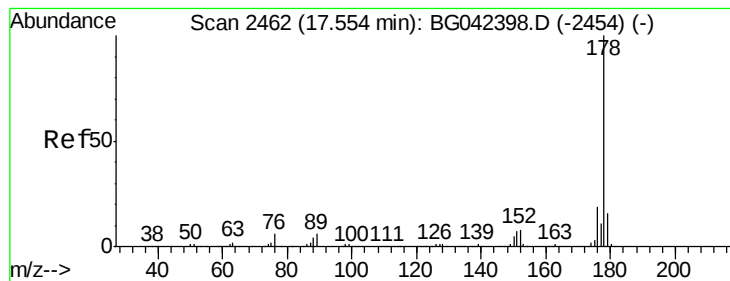
Tot Ion:188 Resp: 249641
Ion Ratio Lower Upper
188 100
94 6.2 4.5 6.7
80 5.9 4.9 7.3



#71
Phenanthrene
Concen: 19.315 ng
RT: 17.45 min Scan# 2445
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion:178 Resp: 239507
Ion Ratio Lower Upper
178 100
176 18.1 15.9 23.9
179 15.3 12.7 19.1





#72

Anthracene

Concen: 3.907 ng

RT: 17.54 min Scan# 2460

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

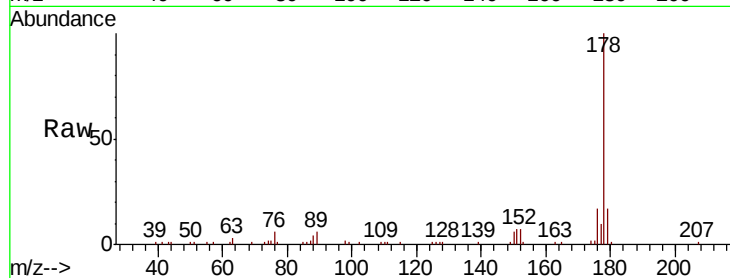
Instrument :

BNA_G

ClientSampleId :

Tot Ion:178 Resp: 48363

Ion	Ratio	Lower	Upper
178	100		
176	17.2	15.5	23.3
179	16.5	12.9	19.3

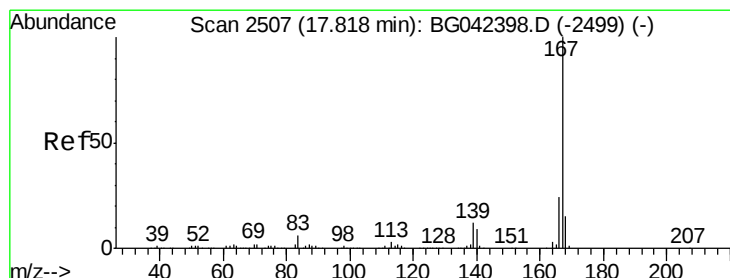
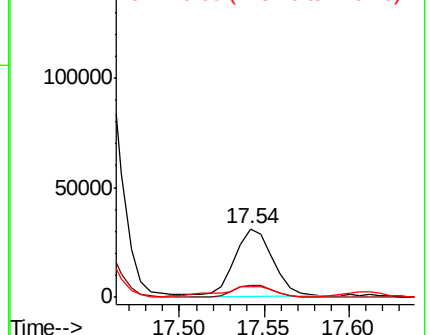
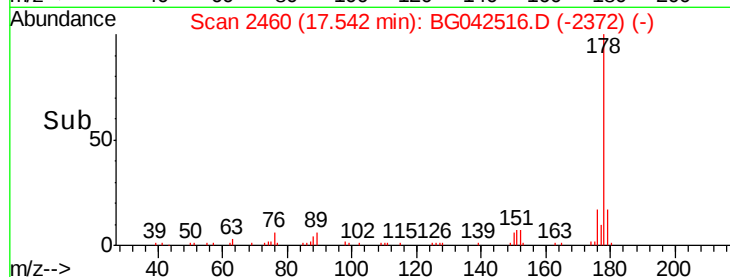


Abundance

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



#73

Carbazole

Concen: 3.180 ng

RT: 17.82 min Scan# 2507

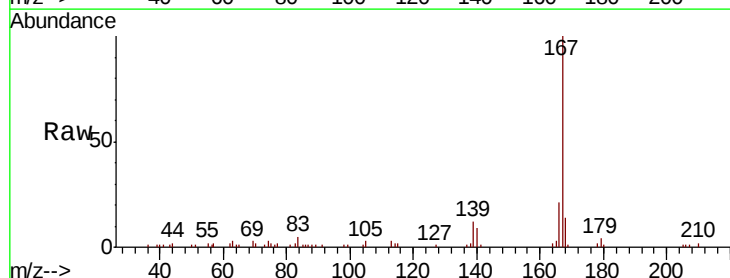
Delta R.T. 0.00 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Tgt Ion:167 Resp: 35079

Ion	Ratio	Lower	Upper
167	100		
166	20.5	18.9	28.3
139	12.1	9.8	14.6

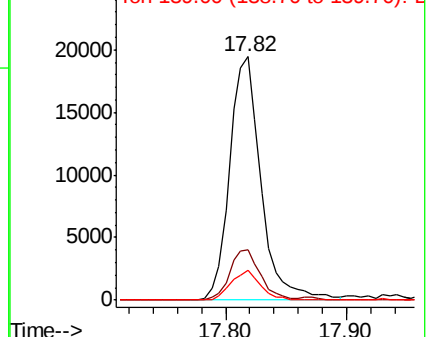
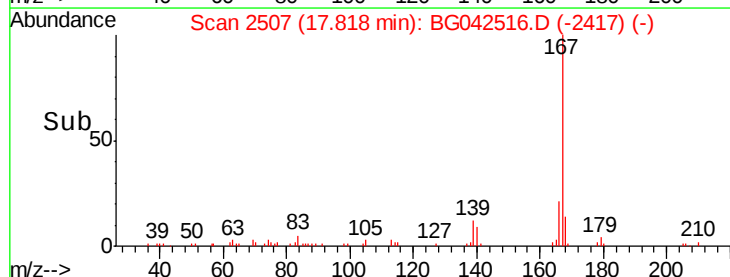


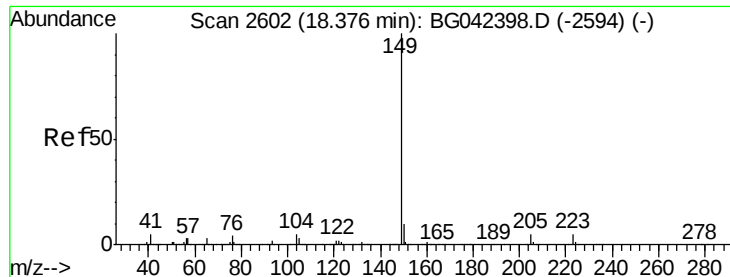
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 2.094 ng

RT: 18.37 min Scan# 2601

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

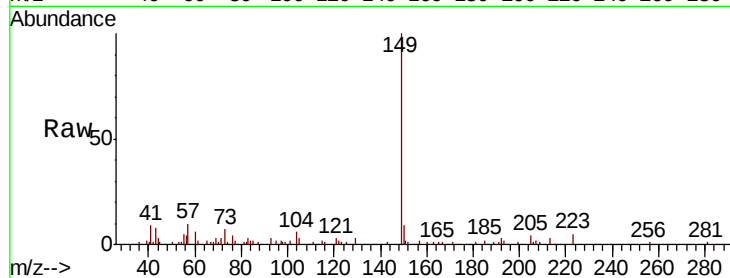
Tot Ion:149 Resp: 27305

Ion Ratio Lower Upper

149 100

150 8.9 8.1 12.1

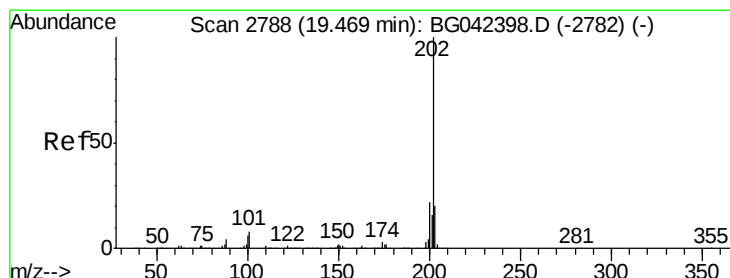
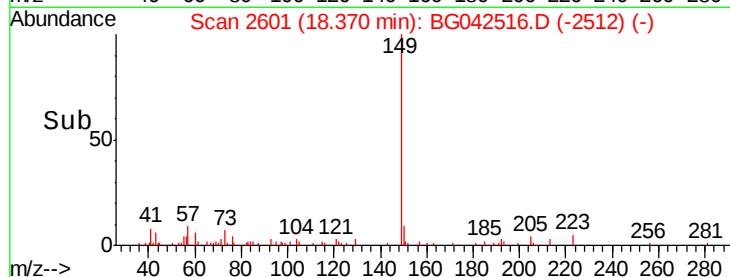
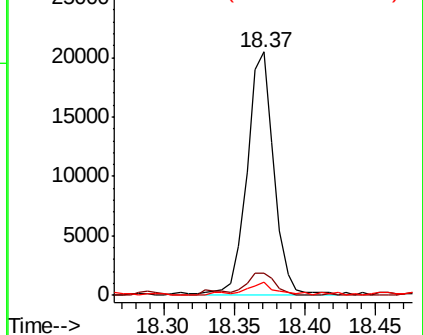
104 5.5 3.7 5.5#



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: 35.179 ng

RT: 19.46 min Scan# 2787

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

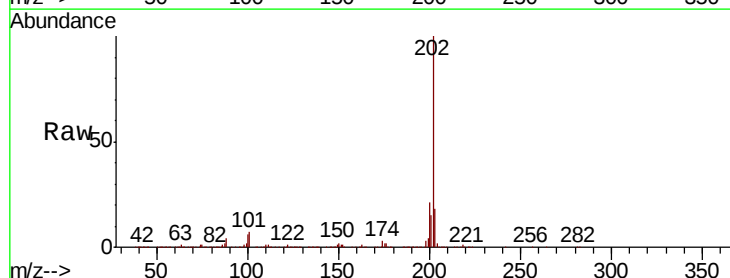
Tgt Ion:202 Resp: 532372

Ion Ratio Lower Upper

202 100

101 7.1 0.0 28.3

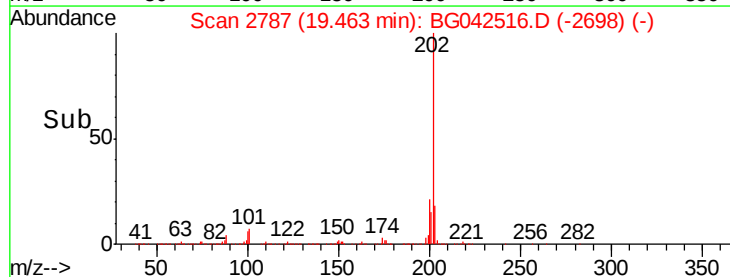
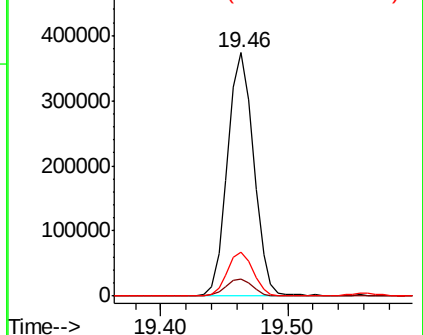
203 18.2 0.0 39.6

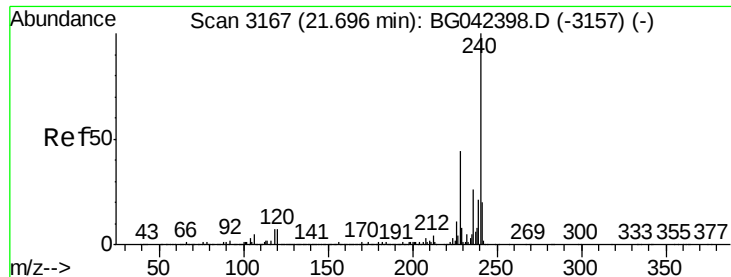


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

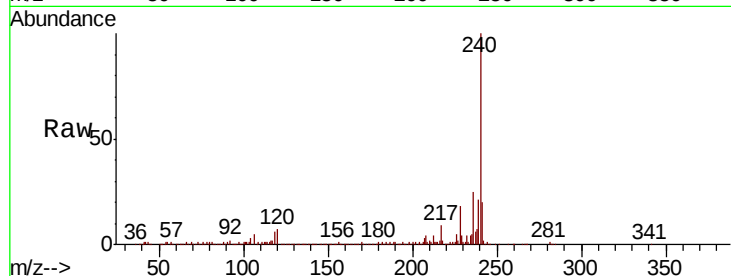
Tot Ion:240 Resp: 302256

Ion Ratio Lower Upper

240 100

120 7.0 5.7 8.5

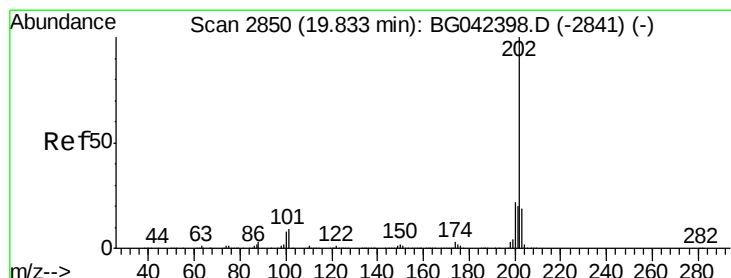
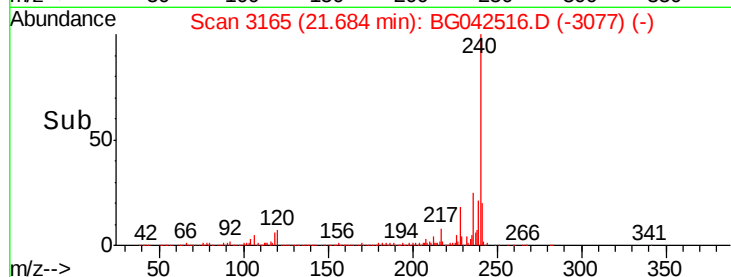
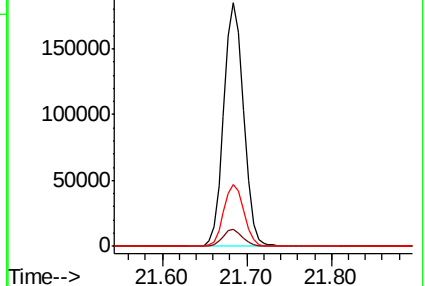
236 25.2 21.0 31.4



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



#78

Pyrene

Concen: 24.105 ng

RT: 19.83 min Scan# 2849

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

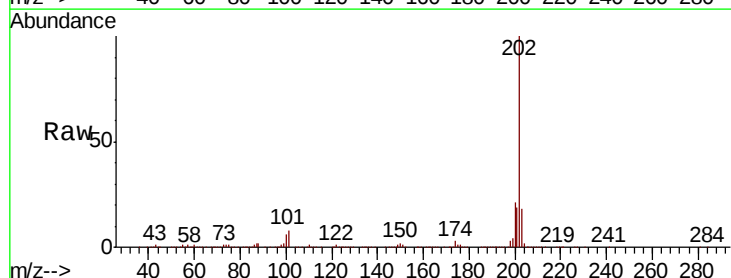
Tgt Ion:202 Resp: 446685

Ion Ratio Lower Upper

202 100

200 20.9 17.8 26.6

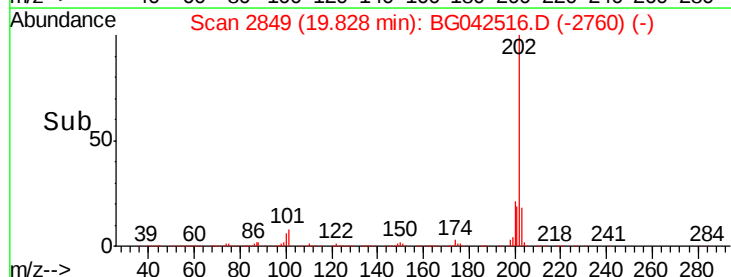
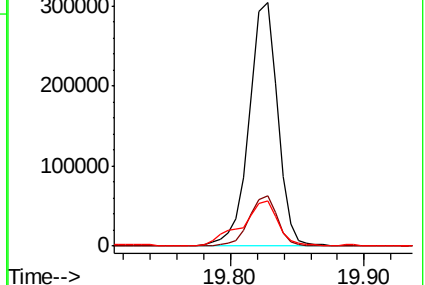
203 18.4 15.5 23.3

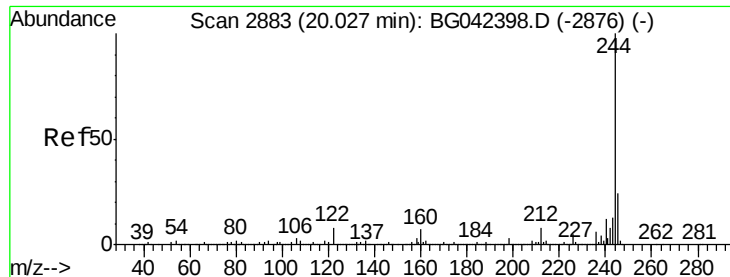


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 38.644 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampled :

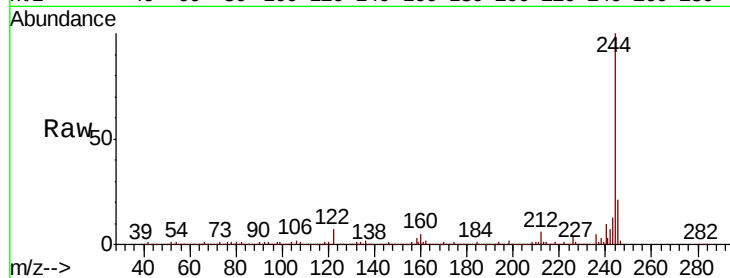
Tot Ion:244 Resp: 540283

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

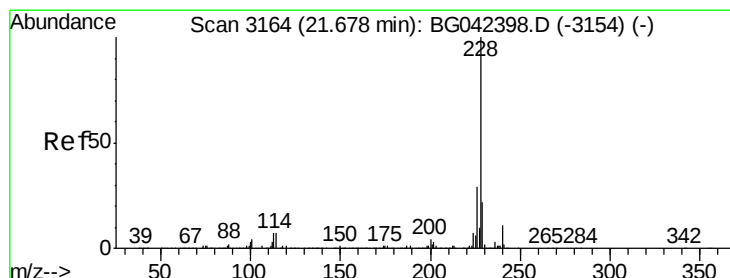
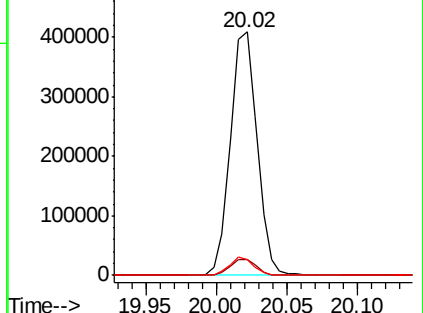
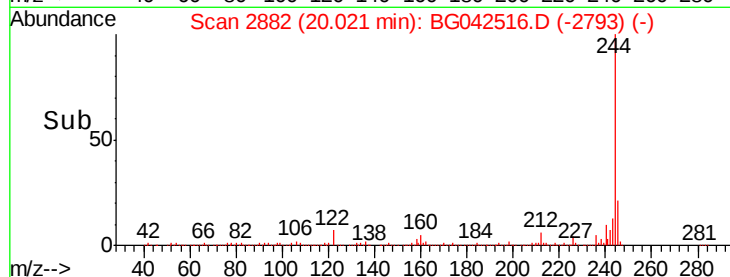
122 6.6 6.7 10.1#



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: 13.633 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

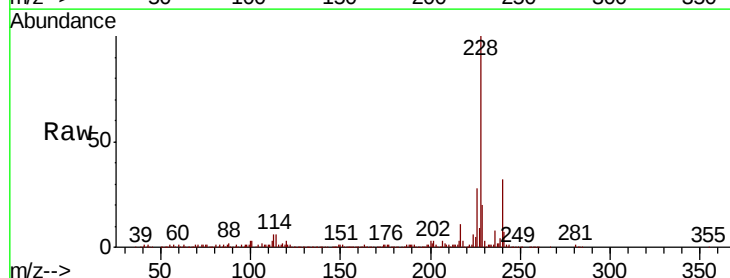
Tgt Ion:228 Resp: 250669

Ion Ratio Lower Upper

228 100

226 28.2 23.4 35.2

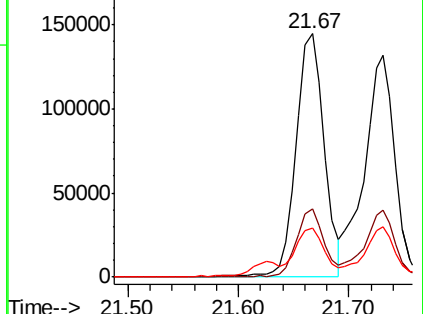
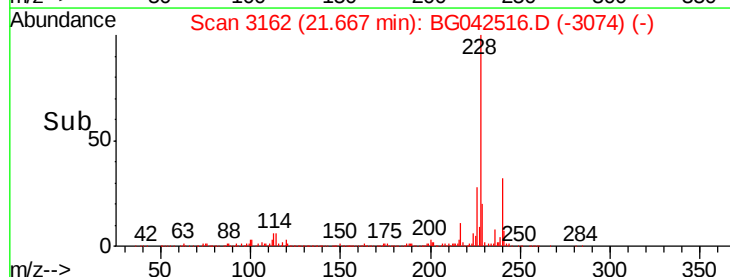
229 20.4 17.4 26.2

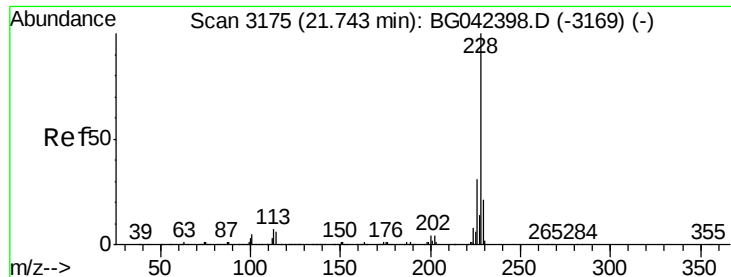


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 14.395 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

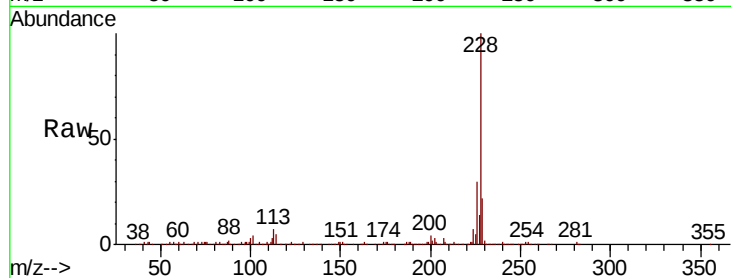
Tot Ion:228 Resp: 255264

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 22.4 16.9 25.3

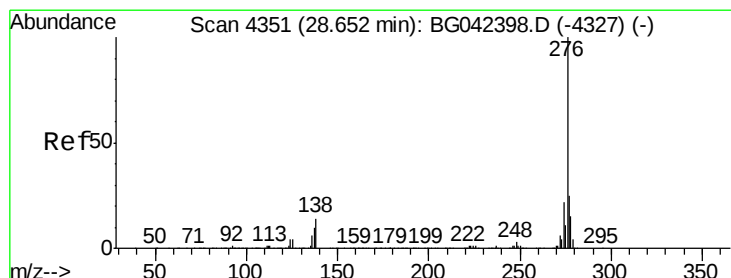
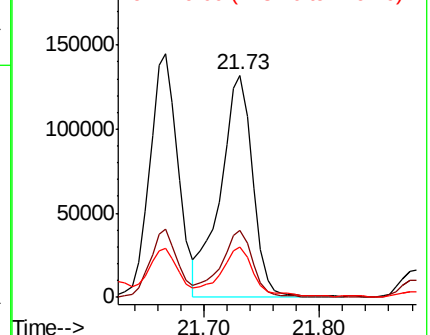
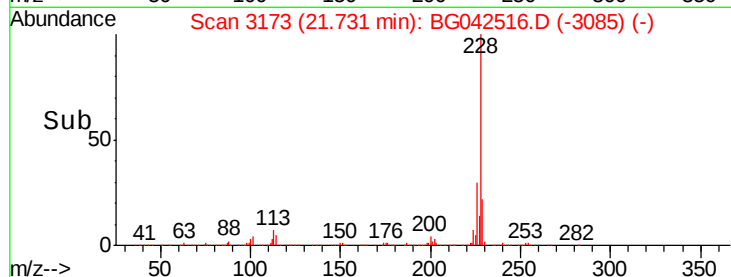


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.093 ng

RT: 28.61 min Scan# 4344

Delta R.T. -0.04 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

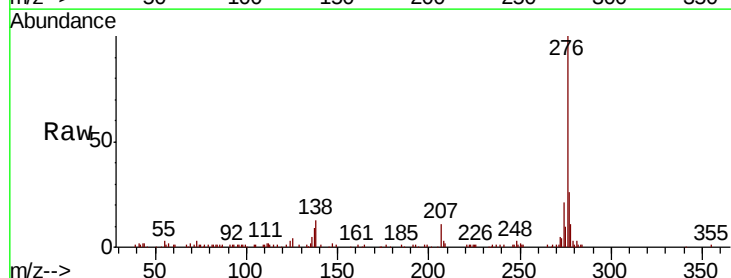
Tgt Ion:276 Resp: 170930

Ion Ratio Lower Upper

276 100

138 12.9 9.2 13.8

277 26.0 21.0 31.6

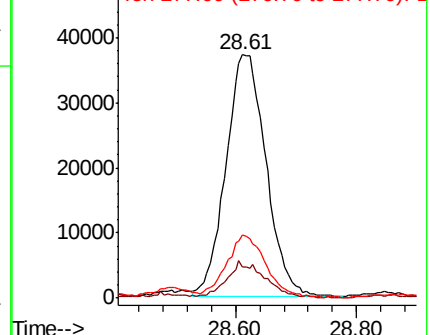
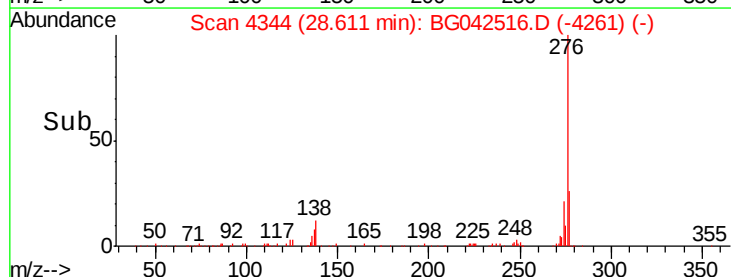


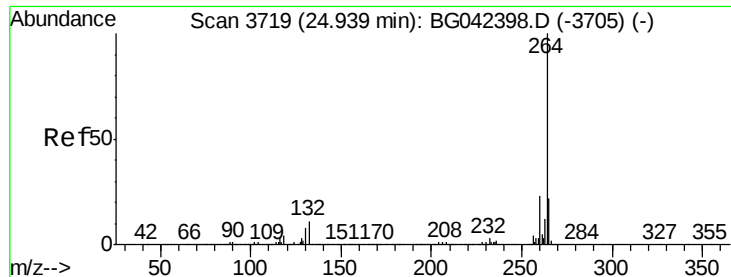
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

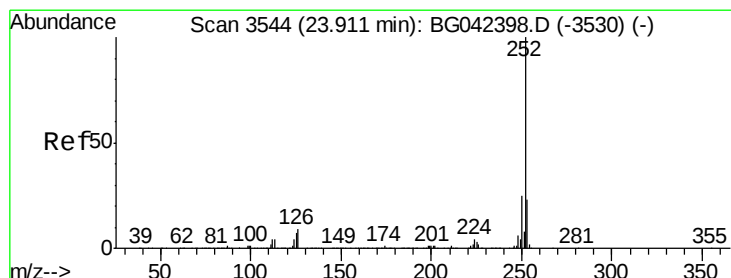
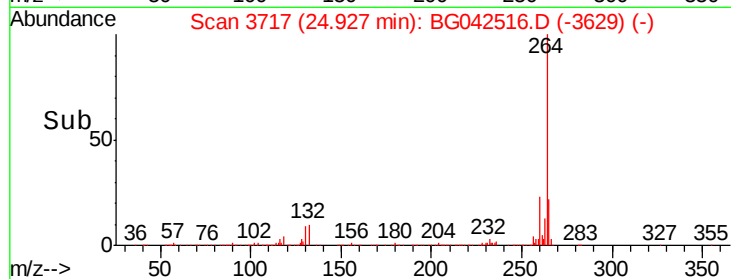
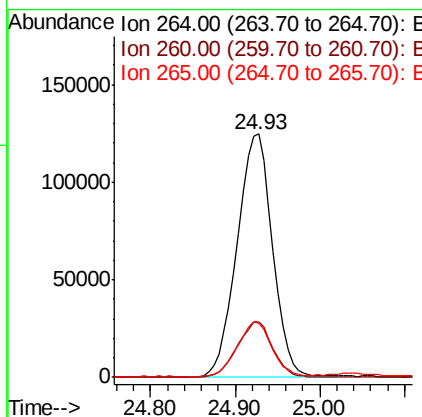
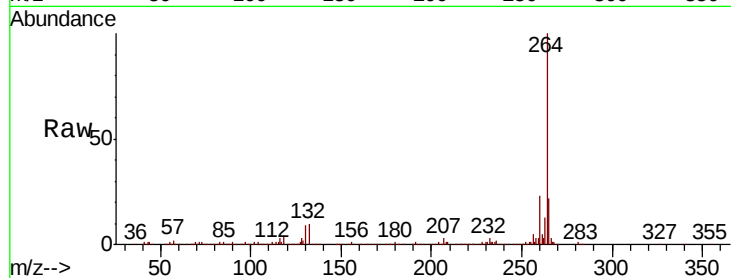




#87
Pervlene-d12
Concen: 20.000 ng
RT: 24.93 min Scan# 3717
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

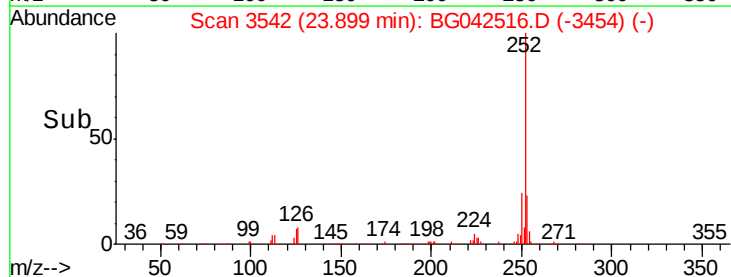
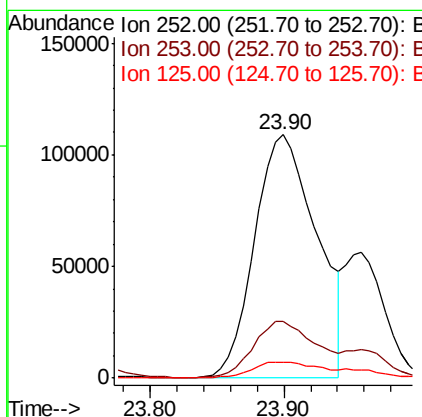
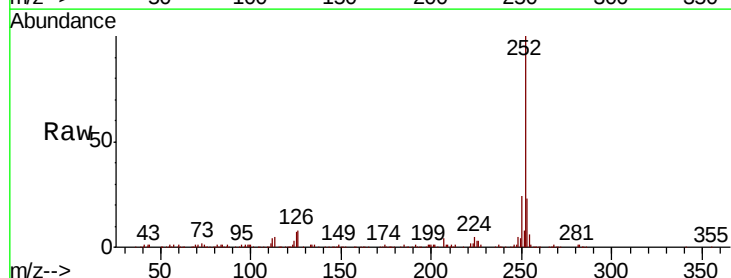
Instrument :
BNA_G
ClientSampleId :

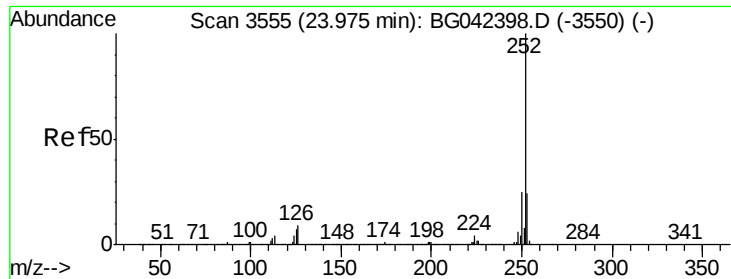
Tot Ion:264 Resp: 363157
Ion Ratio Lower Upper
264 100
260 22.6 18.5 27.7
265 22.4 17.6 26.4



#88
Benzo(b)fluoranthene
Concen: 17.603 ng
RT: 23.90 min Scan# 3542
Delta R.T. -0.01 min
Lab File: BG042516.D
Acq: 27 Aug 2019 22:43

Tgt Ion:252 Resp: 351440
Ion Ratio Lower Upper
252 100
253 23.1 18.6 27.8
125 6.7 5.6 8.4





#89

Benzo(k)fluoranthene

Concen: 6.104 ng

RT: 23.96 min Scan# 3552

Delta R.T. -0.02 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampled :

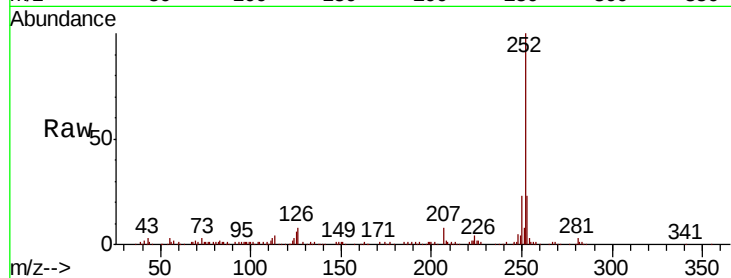
Tot Ion:252 Resp: 117138

Ion Ratio Lower Upper

252 100

253 22.8 18.6 27.8

125 6.4 5.8 8.6

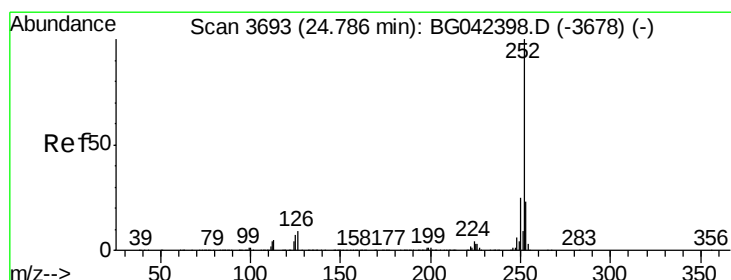
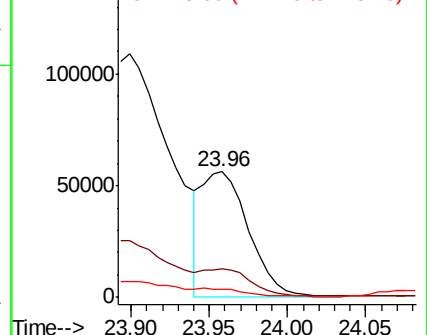
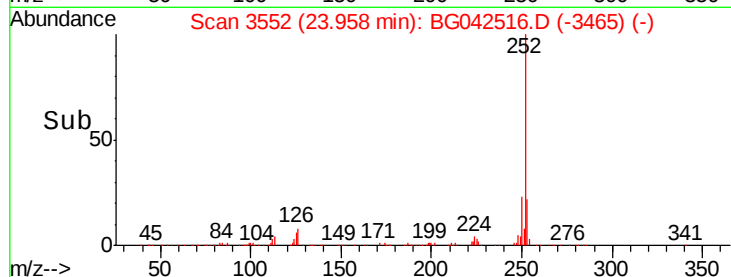


Abundance

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



#90

Benzo(a)pyrene

Concen: 12.445 ng

RT: 24.76 min Scan# 3689

Delta R.T. -0.02 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

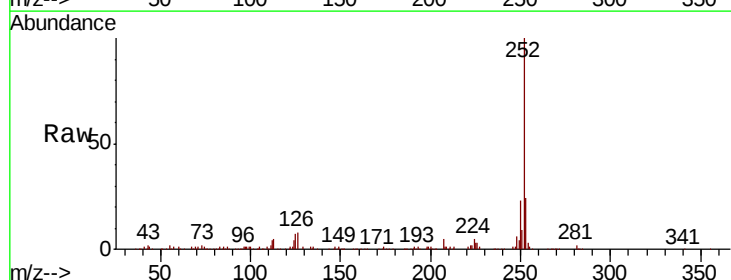
Tgt Ion:252 Resp: 235780

Ion Ratio Lower Upper

252 100

253 23.6 18.4 27.6

125 6.8 6.0 9.0

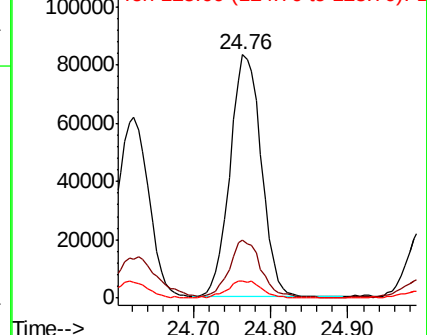
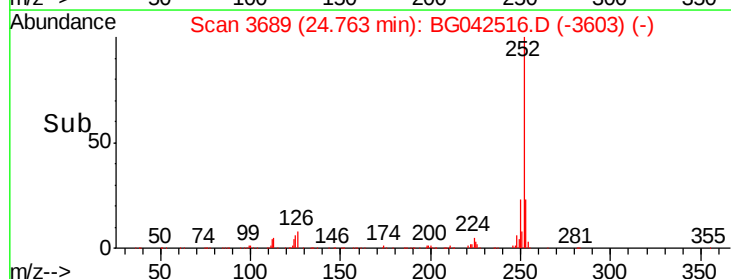


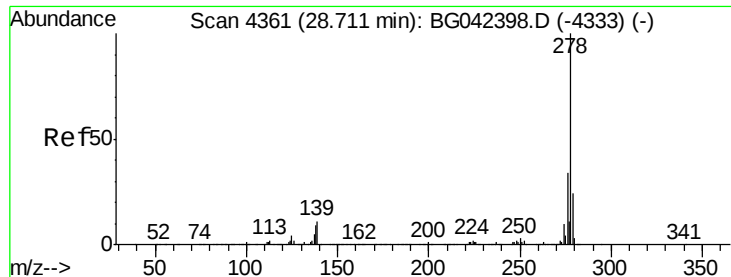
Abundance

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: 2.201 ng

RT: 28.66 min Scan# 4352

Delta R.T. -0.05 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

Instrument :

BNA_G

ClientSampleId :

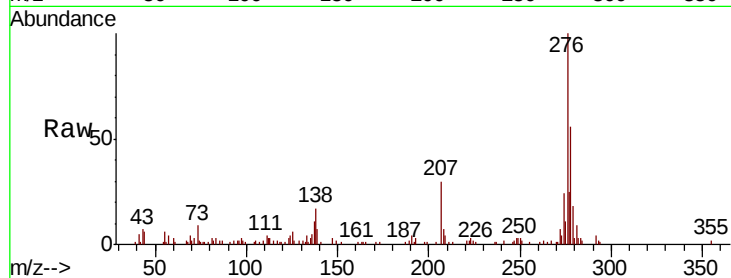
Tot Ion:278 Resp: 42227

Ion Ratio Lower Upper

278 100

139 13.3 8.8 13.2#

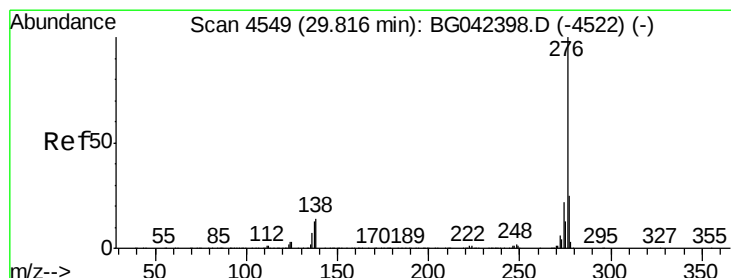
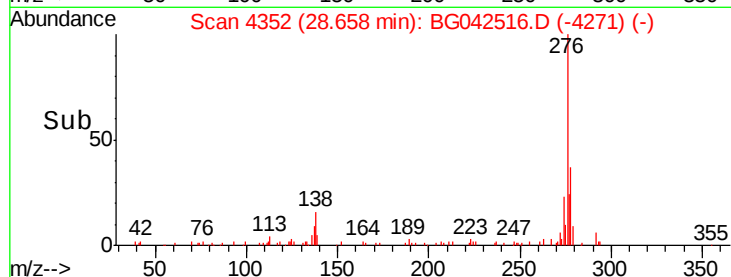
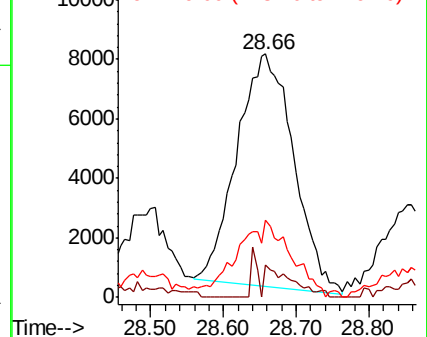
279 31.8 19.1 28.7#



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(g,h,i)perylene

Concen: 8.886 ng

RT: 29.77 min Scan# 4542

Delta R.T. -0.04 min

Lab File: BG042516.D

Acq: 27 Aug 2019 22:43

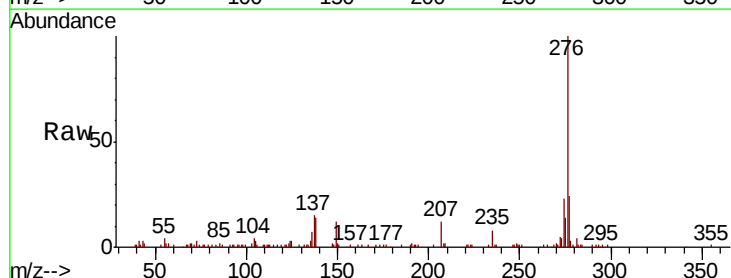
Tgt Ion:276 Resp: 170473

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.8

138 14.2 11.4 17.0



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

