

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
 Data File : BG018294.D
 Acq On : 6 Aug 2015 5:01
 Operator : UM/TP
 Sample : G3109-20RE
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F4RE

Quant Time: Aug 06 06:58:35 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	55866	20.00	ng/ul	0.02
18) Naphthalene-d8	10.23	136	240858	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.13	164	118113	20.00	ng/ul	0.02
62) Phenanthrene-d10	16.90	188	169290	20.00	ng/ul	0.03
78) Chrysene-d12	21.12	240	222286	20.00	ng/ul	0.03
86) Perylene-d12	23.30	264	195921	20.00	ng/ul	0.06

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.91	96	2176	3.36	ng/uL	0.00
5) Phenol-d5	6.66	99	91410	20.80	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.79	67	47234	22.25	ng/ul	0.01
9) 2-Chlorophenol-d4	6.98	132	78887	21.57	ng/ul	0.01
13) 4-Methylphenol-d8	8.19	113	65028	17.53	ng/ul	0.02
19) Nitrobenzene-d5	8.60	128	44059	23.62	ng/ul	0.02
22) 2-Nitrophenol-d4	9.32	143	50622	23.46	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	9.88	165	83314	21.01	ng/ul	0.02
29) 4-Chloroaniline-d4	10.38	131	25720	5.42	ng/ul	0.02
44) Dimethylphthalate-d6	13.55	166	229227	25.09	ng/ul	0.02
47) Acenaphthylene-d8	13.82	160	216635	20.91	ng/ul	0.02
52) 4-Nitrophenol-d4	14.37	143	833	0.55	ng/ul	0.00
58) Fluorene-d10	15.14	176	148365	18.08	ng/ul	0.02
63) 4,6-Dinitro-2-methylphenol	15.29	200	2963	2.53	ng/ul	0.03
71) Anthracene-d10	17.00	188	145119	19.49	ng/ul	0.03
79) Pyrene-d10	19.31	212	125099	10.06	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.17	264	154919	15.20	ng/ul	0.06

Target Compounds

						Qvalue
4) Benzaldehyde	6.59	77	3153	1.40	ng/ul#	1
14) Acetophenone	8.27	105	21933	3.68	ng/ul	96
17) Hexachloroethane	8.54	117	3133	1.88	ng/ul#	6
28) Naphthalene	10.28	128	48068	4.25	ng/ul#	93
34) 2-Methylnaphthalene	11.91	142	57377	6.31	ng/ul	97
35) 1-Methylnaphthalene	12.13	142	30713	3.50	ng/ul	97
41) 1,1'-Biphenyl	12.95	154	14727	1.81	ng/ul#	90
45) Dimethylphthalate	13.59	163	106978	11.74	ng/ul	98
50) Acenaphthene	14.20	153	73377	10.63	ng/ul	95
54) Dibenzofuran	14.54	168	58464	5.75	ng/ul	92
59) Fluorene	15.19	166	89845	10.07	ng/ul	92
65) N-Nitrosodiphenylamine	15.41	169	19607	4.40	ng/ul#	64
70) Phenanthrene	16.95	178	731173	85.58	ng/ul	97
72) Anthracene	17.03	178	215780	25.31	ng/ul	96
75) Carbazole	17.31	167	64194	8.92	ng/ul#	87
76) Di-n-butylphthalate	17.87	149	39065	3.87	ng/ul#	89
77) Fluoranthene	18.99	202	995167	105.02	ng/ul#	96
80) Pyrene	19.35	202	961229	62.19	ng/ul	99
81) Butylbenzylphthalate	20.25	149	16660	2.78	ng/ul#	52
83) Benzo(a)anthracene	21.11	228	631606	53.83	ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.04	149	353377	48.98	ng/ul#	96
85) Chrysene	21.16	228	591636	56.12	ng/ul	96
88) Benzo(b)fluoranthene	22.66	252	855427	71.19	ng/ul#	94

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QLast Update : Thu Aug 06 03:42:27 2015
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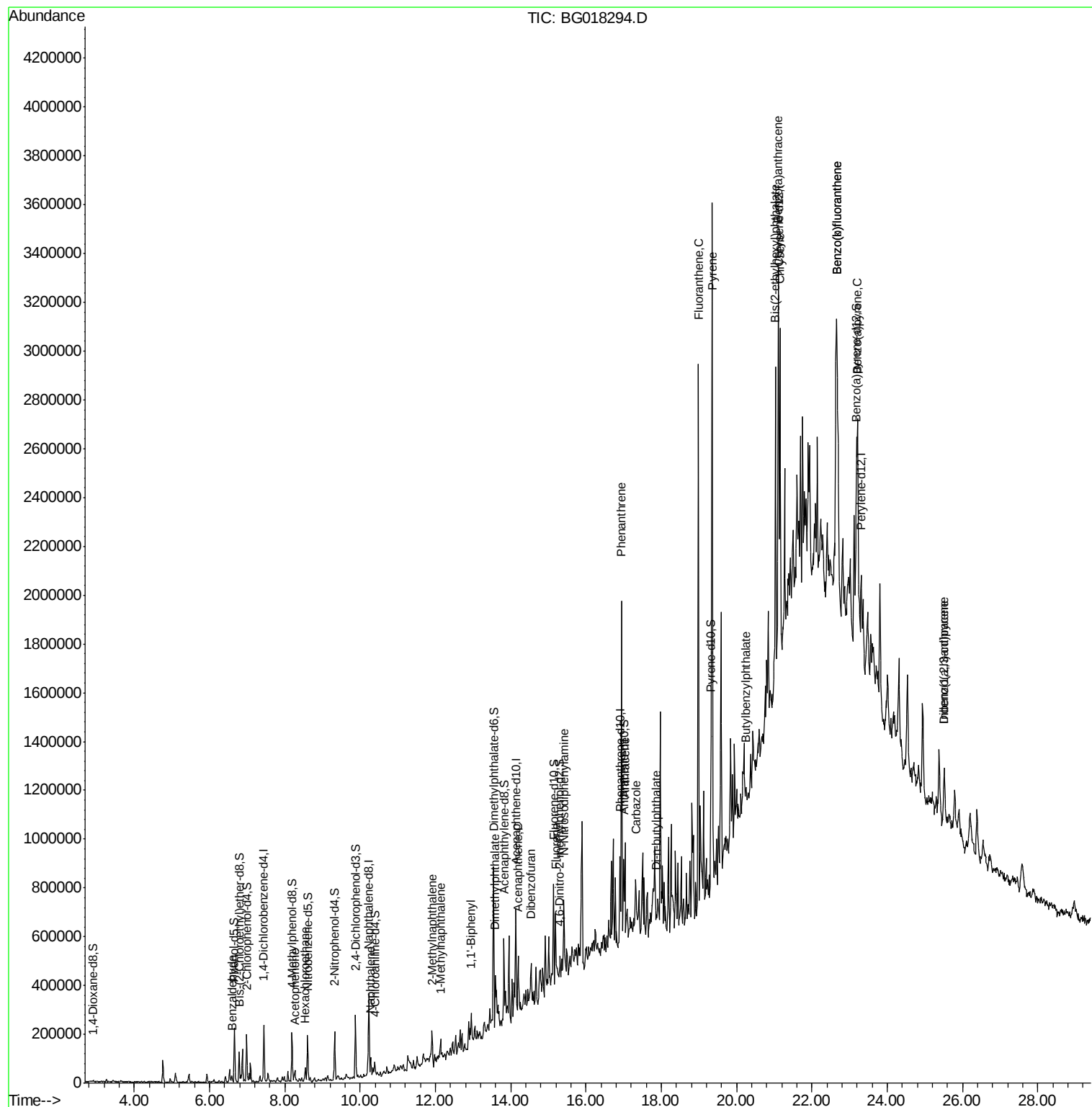
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	22.66	252	855427	74.24	ng/ul#	90
91) Benzo(a)pyrene	23.22	252	496733	47.35	ng/ul#	96
92) Indeno(1,2,3-cd)pyrene	25.52	276	200517	15.45	ng/ul	92
93) Dibenzo(a,h)anthracene	25.51	278	48178	4.23	ng/ul#	77

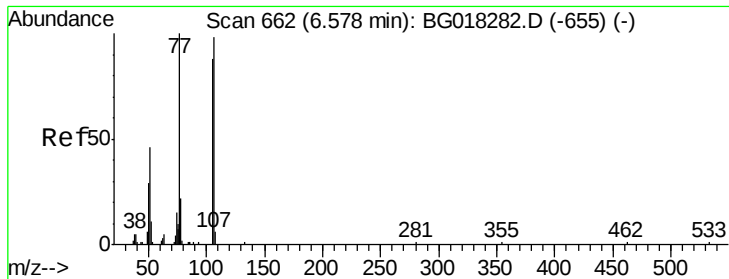
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.40 ng/ul

RT: 6.59 min Scan# 664

Delta R.T. 0.01 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

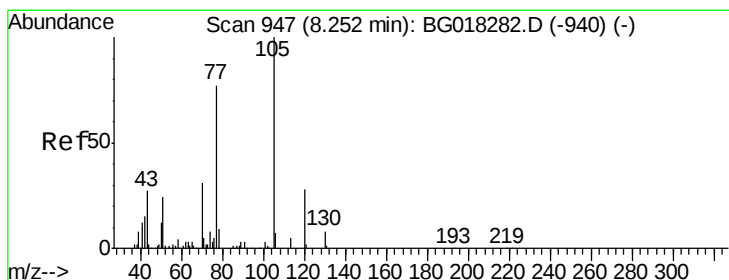
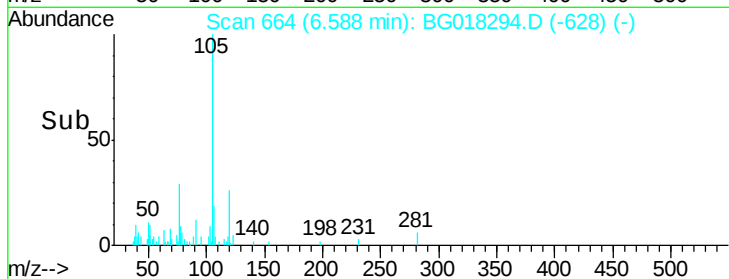
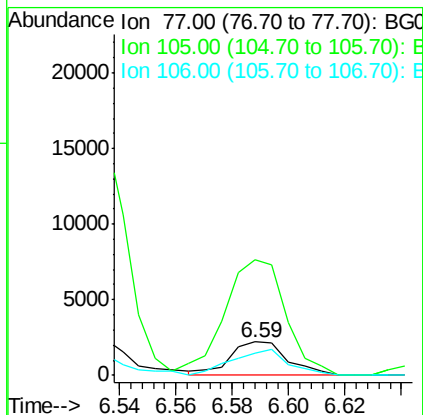
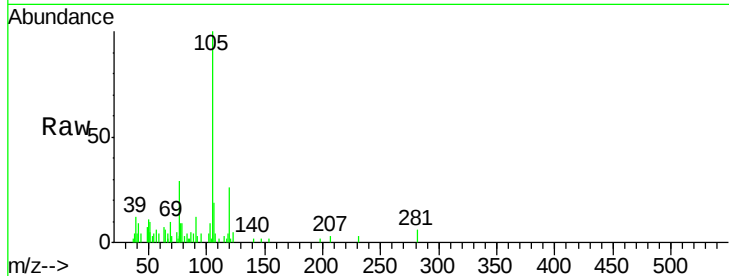
Tgt Ion: 77 Resp: 3153

Ion Ratio Lower Upper

77 100

105 348.2 74.6 112.0#

106 65.3 79.8 119.8#



#14

Acetophenone

Concen: 3.68 ng/ul

RT: 8.27 min Scan# 950

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

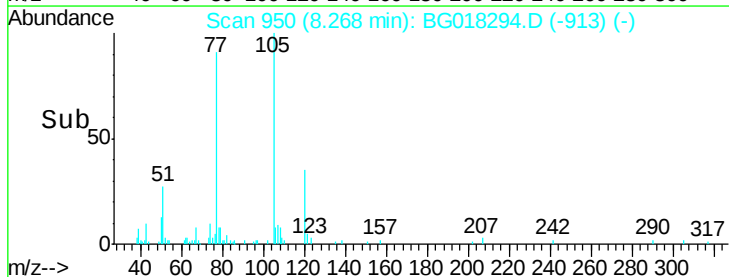
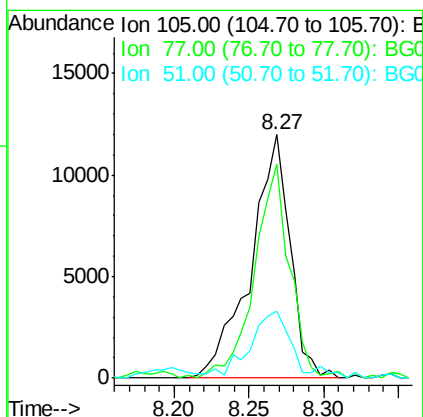
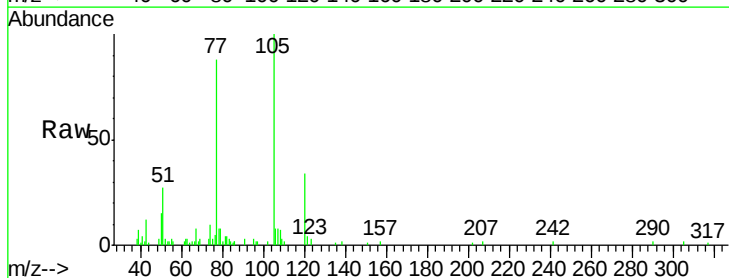
Tgt Ion: 105 Resp: 21933

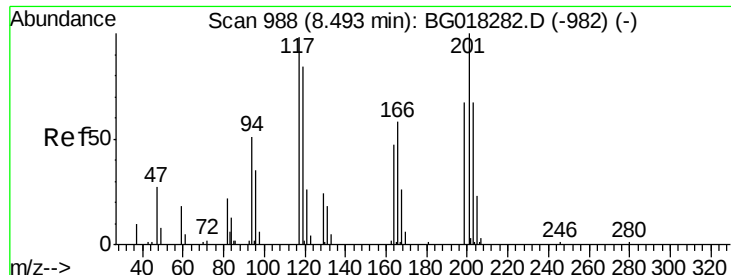
Ion Ratio Lower Upper

105 100

77 88.0 67.5 101.3

51 27.5 23.6 35.4





#17

Hexachloroethane

Concen: 1.88 ng/ul

RT: 8.54 min Scan# 997

Delta R.T. 0.05 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

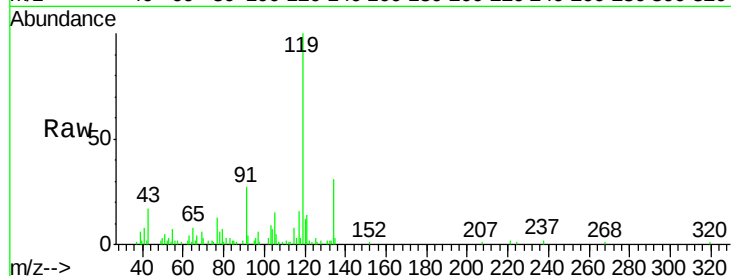
Tgt Ion:117 Resp: 3133

Ion Ratio Lower Upper

117 100

201 0.0 85.4 128.0#

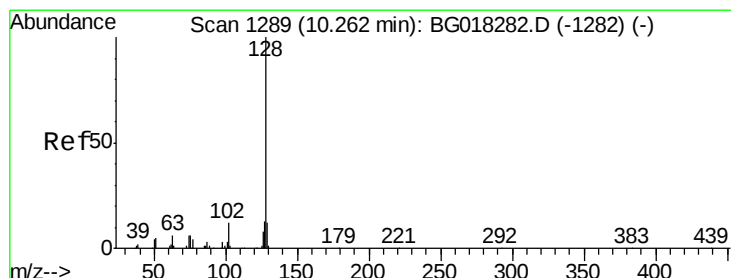
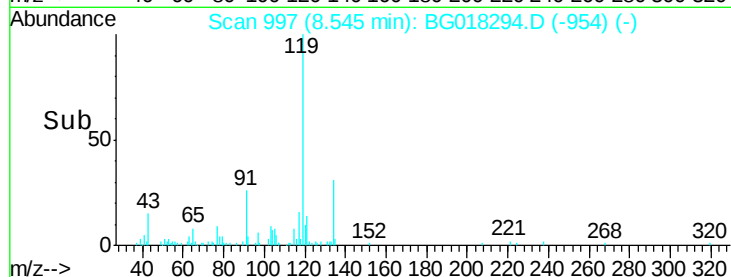
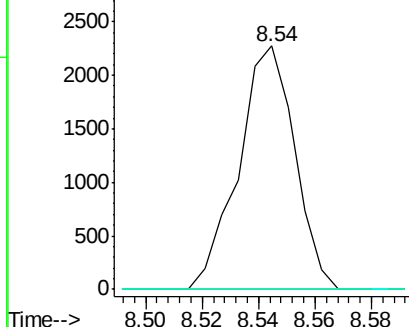
199 0.0 44.6 67.0#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 4.25 ng/ul

RT: 10.28 min Scan# 1292

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

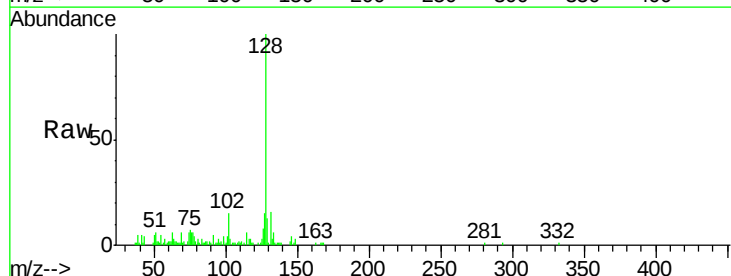
Tgt Ion:128 Resp: 48068

Ion Ratio Lower Upper

128 100

129 13.4 7.8 11.6#

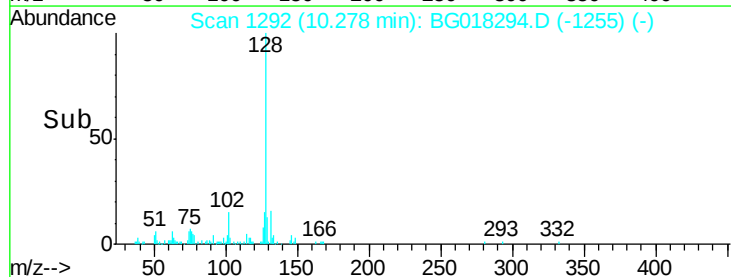
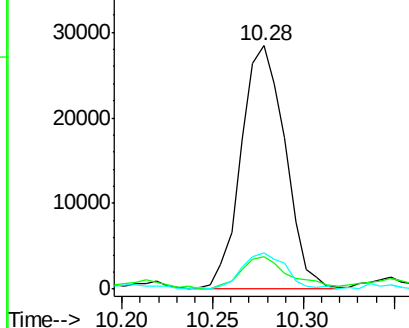
127 14.8 10.2 15.4

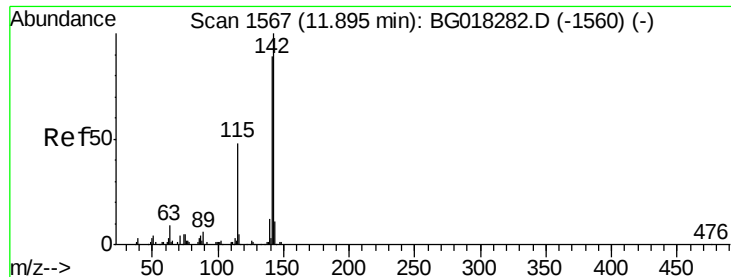


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

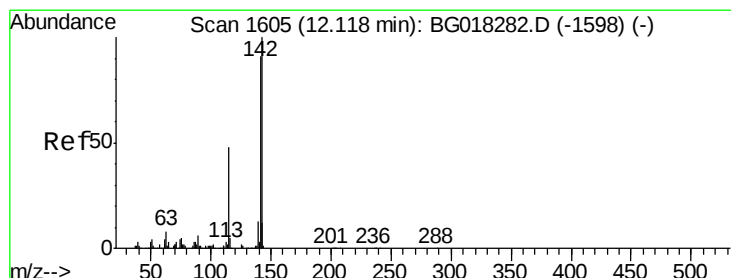
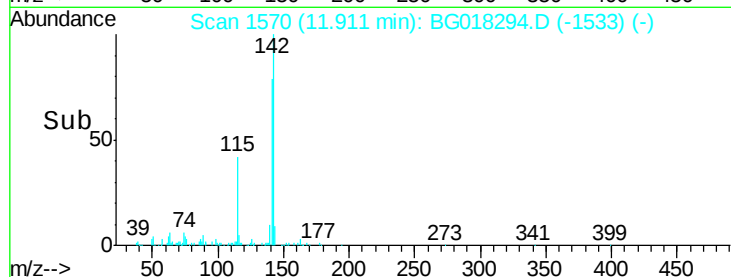
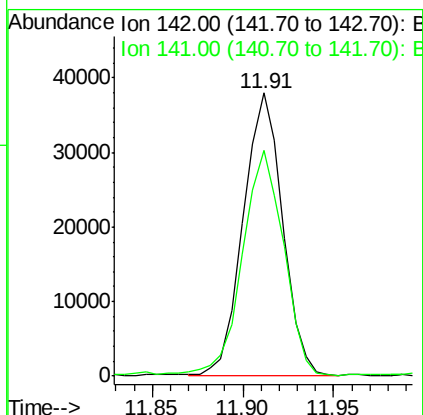
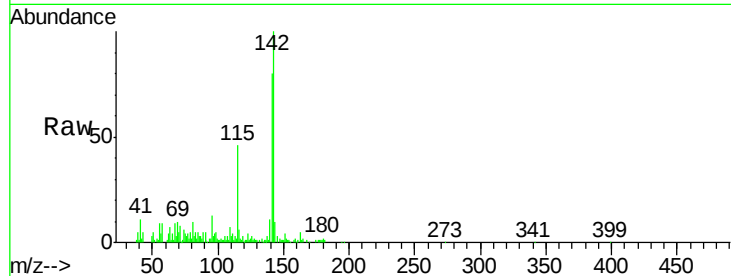




#34
 2-Methylnaphthalene
 Concen: 6.31 ng/ul
 RT: 11.91 min Scan# 1570
 Delta R.T. 0.02 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

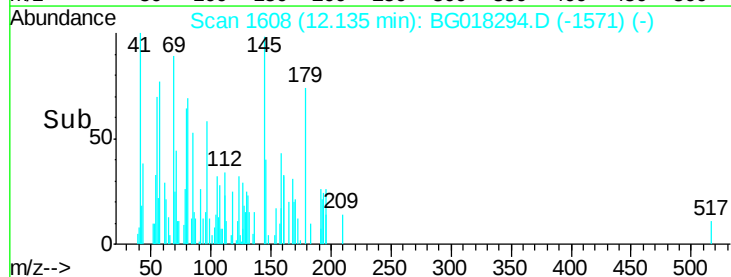
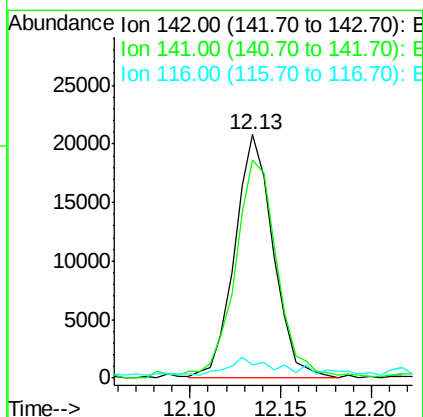
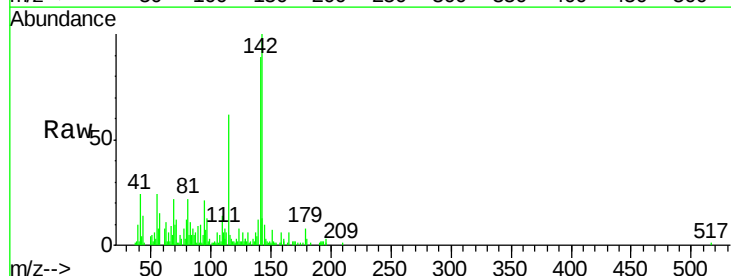
Instrument :
 BNA_G
 ClientSampleId :
 C02F4RE

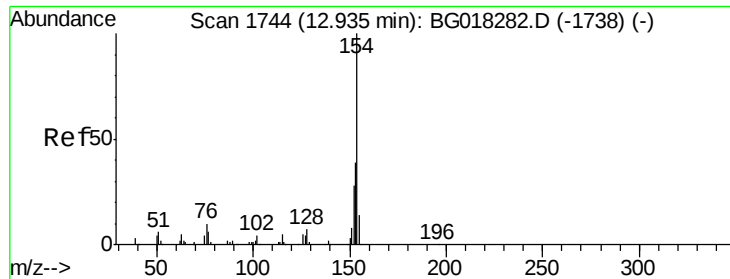
Tgt Ion:142 Resp: 57377
 Ion Ratio Lower Upper
 142 100
 141 79.9 65.9 98.9



#35
 1-Methylnaphthalene
 Concen: 3.50 ng/ul
 RT: 12.13 min Scan# 1608
 Delta R.T. 0.02 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

Tgt Ion:142 Resp: 30713
 Ion Ratio Lower Upper
 142 100
 141 89.3 69.0 103.4
 116 5.3 4.2 6.4

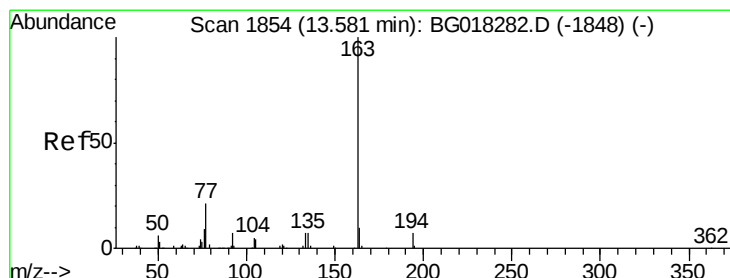
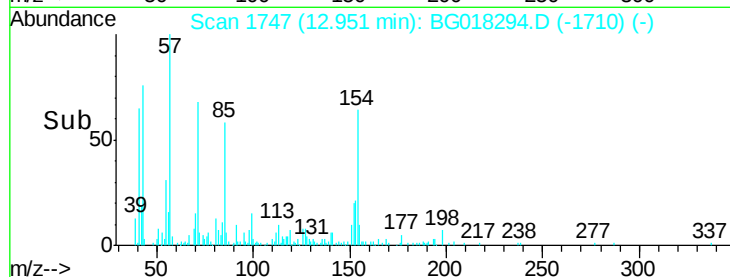
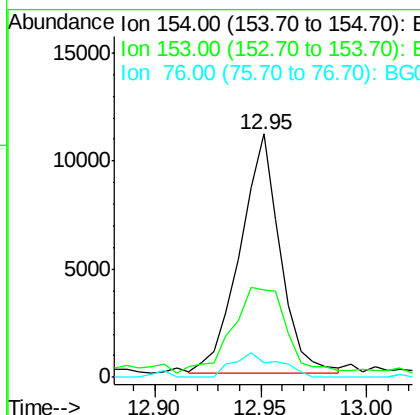
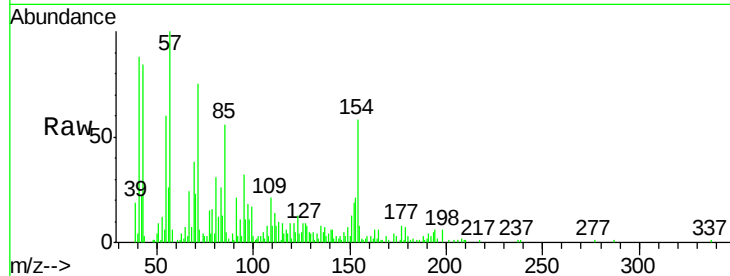




#41
1,1'-Biphenyl
Concen: 1.81 ng/ul
RT: 12.95 min Scan# 1747
Delta R.T. 0.02 min
Lab File: BG018294.D
Acq: 6 Aug 2015 5:01

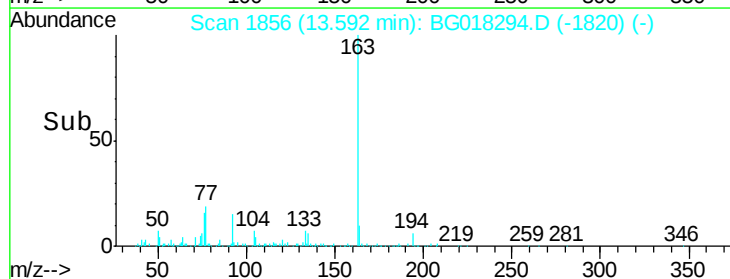
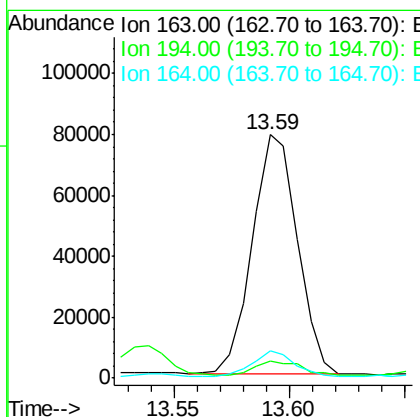
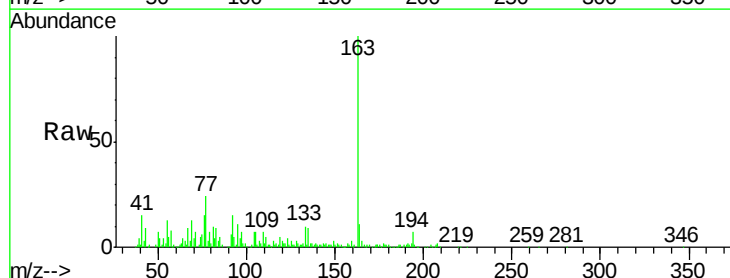
Instrument :
BNA_G
ClientSampleId :
C02F4RE

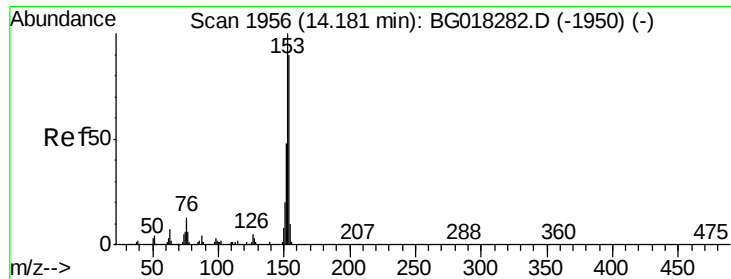
Tgt Ion	Ratio	Lower	Upper
154	100		
153	35.7	33.4	50.0
76	6.1	8.6	12.8#



#45
Dimethylphthalate
Concen: 11.74 ng/ul
RT: 13.59 min Scan# 1856
Delta R.T. 0.01 min
Lab File: BG018294.D
Acq: 6 Aug 2015 5:01

Tgt Ion	Ratio	Lower	Upper
163	100		
194	7.2	5.4	8.2
164	11.0	7.8	11.8





#50

Acenaphthene

Concen: 10.63 ng/ul

RT: 14.20 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

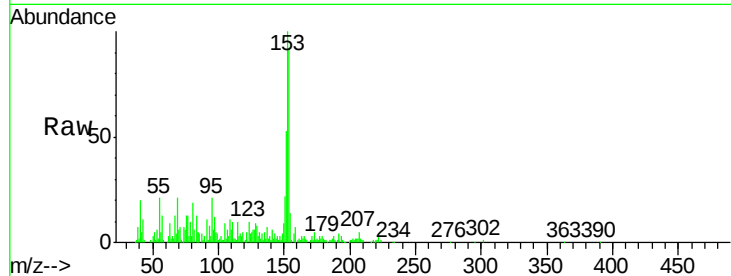
Tgt Ion:153 Resp: 73377

Ion Ratio Lower Upper

153 100

152 52.8 39.0 58.4

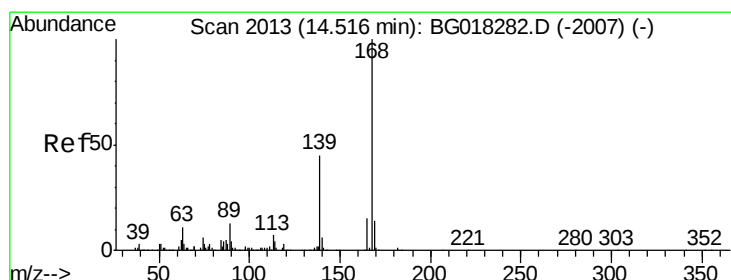
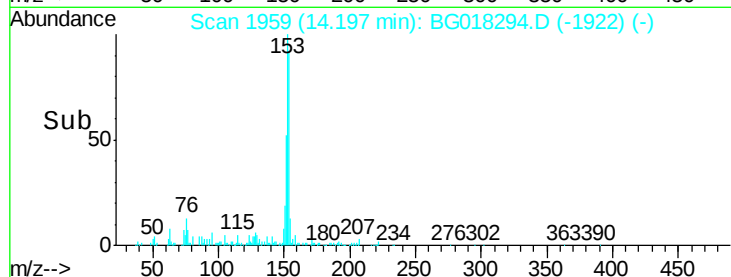
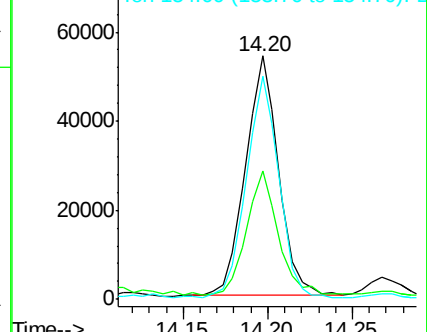
154 91.7 77.4 116.2



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 5.75 ng/ul

RT: 14.54 min Scan# 2017

Delta R.T. 0.02 min

Lab File: BG018294.D

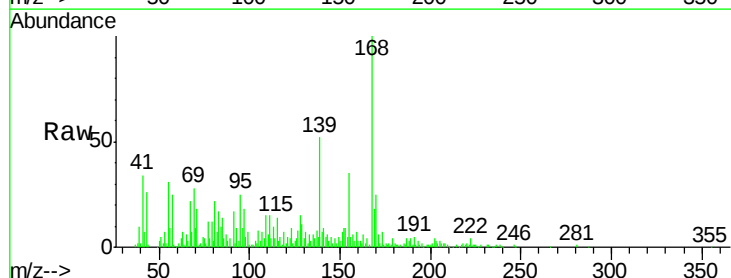
Acq: 6 Aug 2015 5:01

Tgt Ion:168 Resp: 58464

Ion Ratio Lower Upper

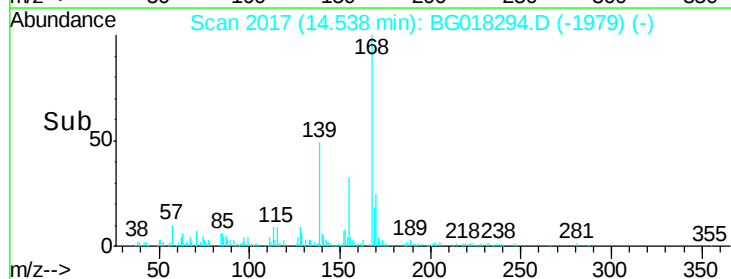
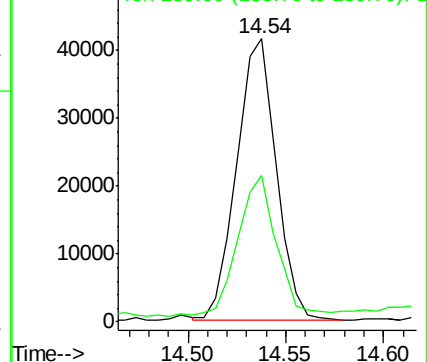
168 100

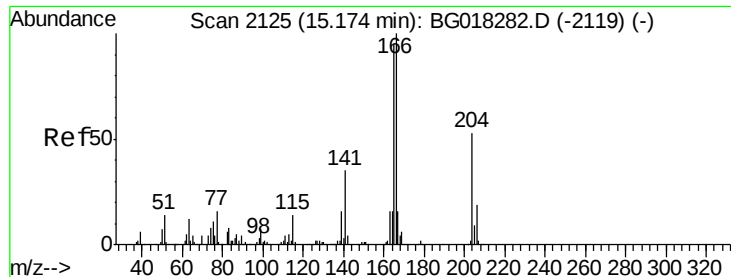
139 51.7 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 10.07 ng/ul

RT: 15.19 min Scan# 2128

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

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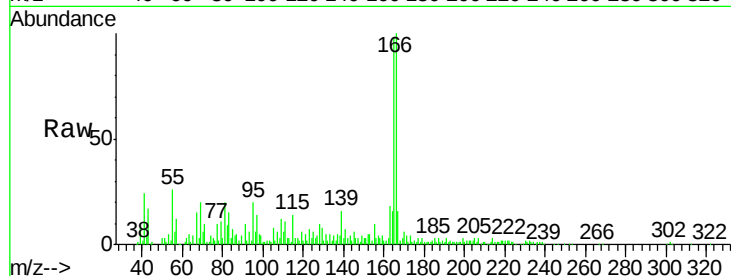
Tgt Ion:166 Resp: 89845

Ion Ratio Lower Upper

166 100

165 98.5 72.4 108.6

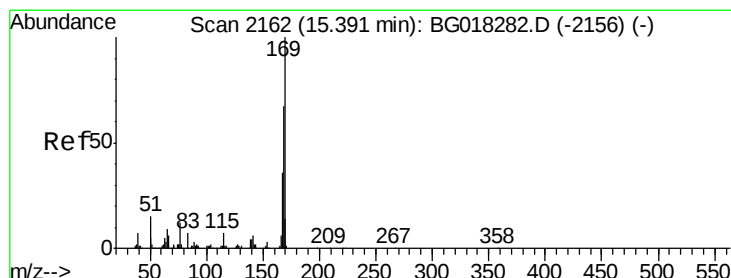
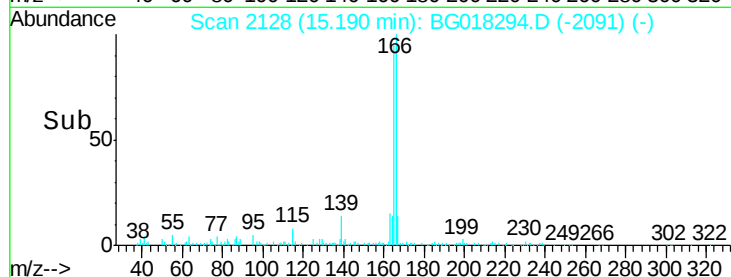
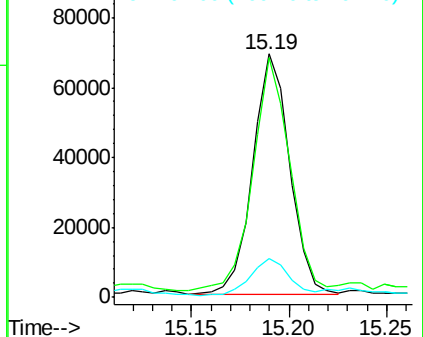
167 15.8 11.4 17.0



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



#65

N-Nitrosodiphenylamine

Concen: 4.40 ng/ul

RT: 15.41 min Scan# 2166

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

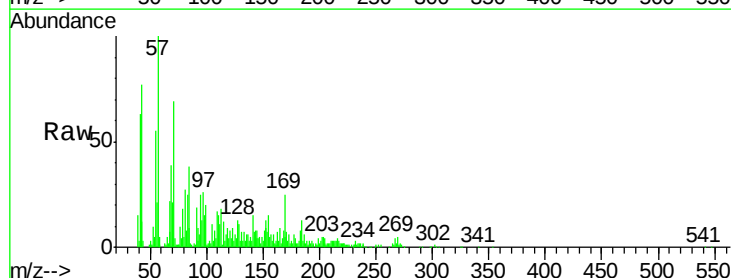
Tgt Ion:169 Resp: 19607

Ion Ratio Lower Upper

169 100

168 32.6 50.2 75.2#

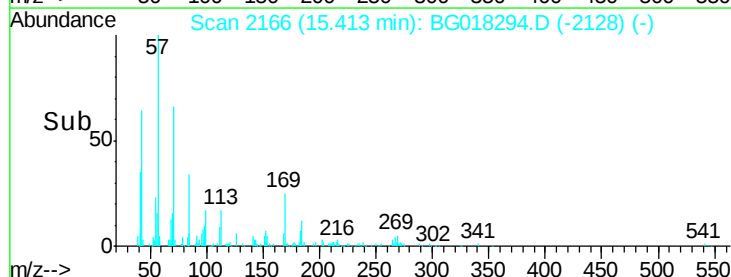
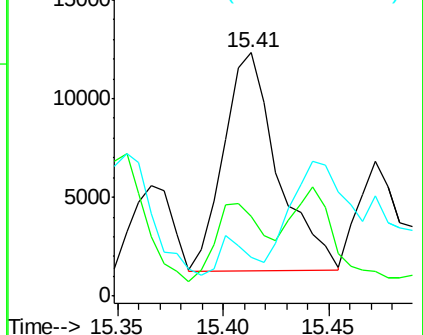
167 15.9 27.3 40.9#

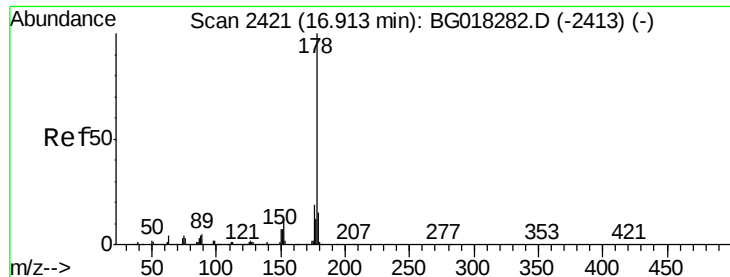


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 85.58 ng/ul

RT: 16.95 min Scan# 2427

Delta R.T. 0.03 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

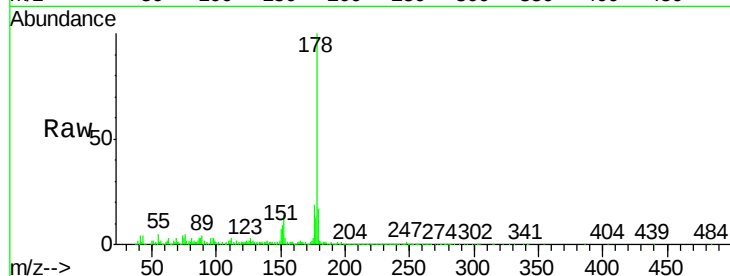
Tgt Ion:178 Resp: 731173

Ion Ratio Lower Upper

178 100

179 16.6 12.2 18.4

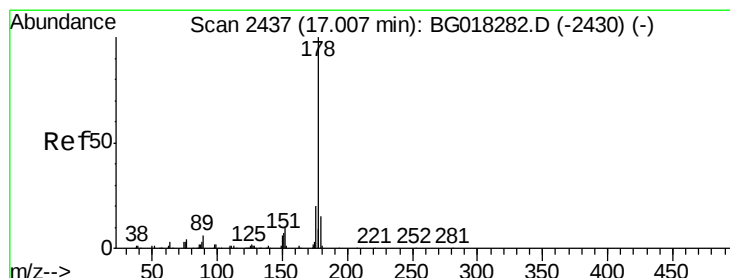
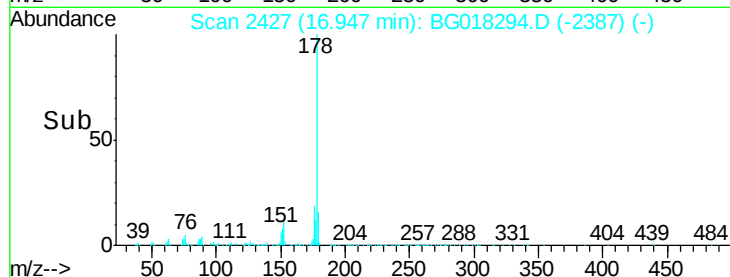
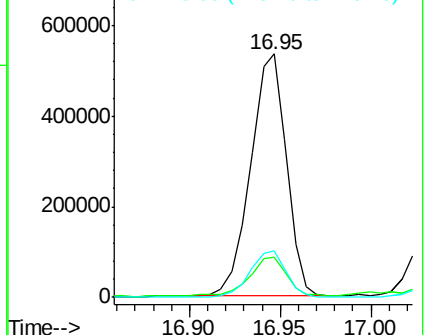
176 19.3 14.5 21.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 25.31 ng/ul

RT: 17.03 min Scan# 2442

Delta R.T. 0.03 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

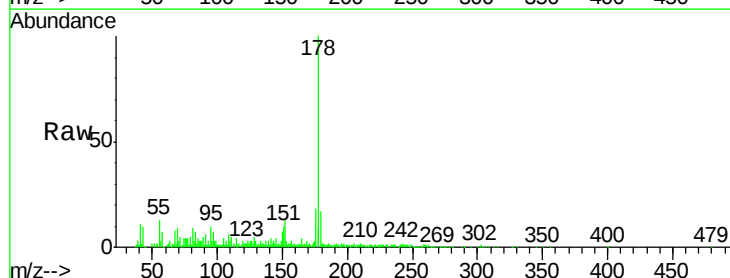
Tgt Ion:178 Resp: 215780

Ion Ratio Lower Upper

178 100

179 17.4 12.2 18.4

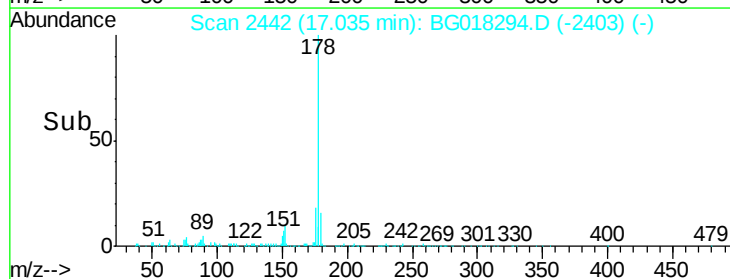
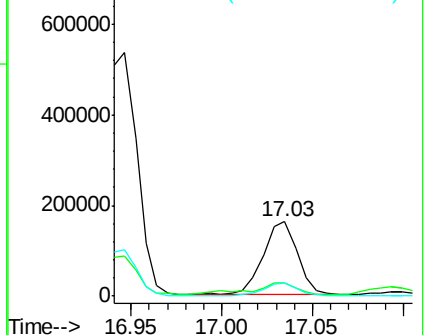
176 18.0 15.3 22.9

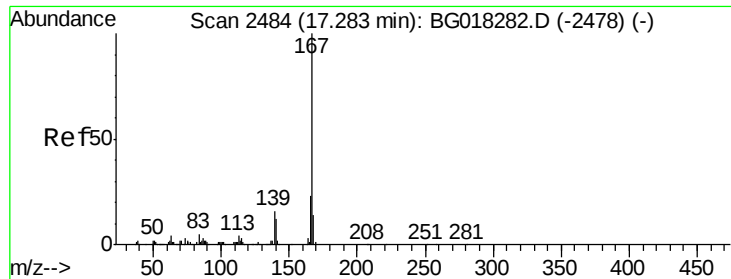


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 8.92 ng/ul

RT: 17.31 min Scan# 2489

Delta R.T. 0.03 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

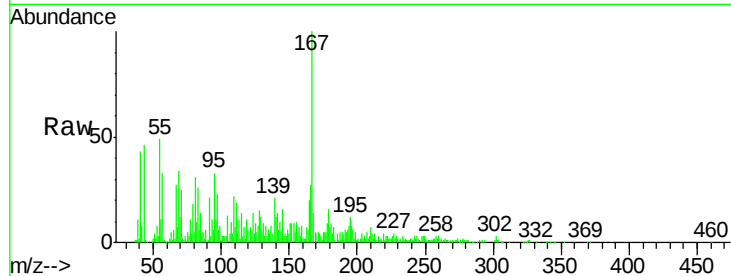
Tgt Ion:167 Resp: 64194

Ion Ratio Lower Upper

167 100

166 26.7 17.8 26.8

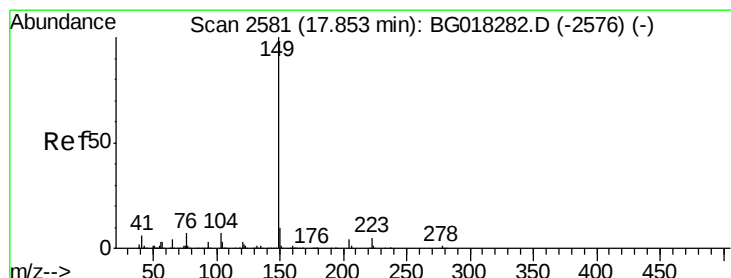
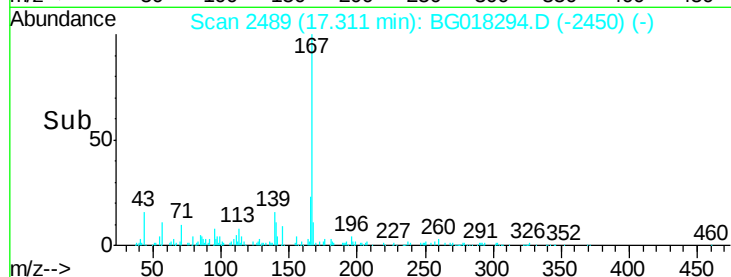
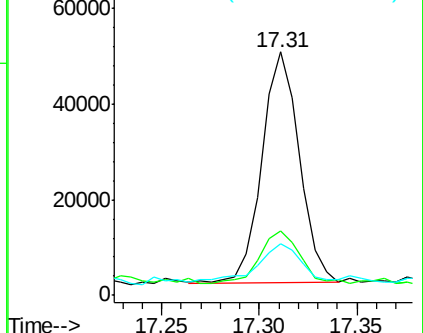
139 21.0 10.6 16.0#



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



#76

Di-n-butylphthalate

Concen: 3.87 ng/ul

RT: 17.87 min Scan# 2585

Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

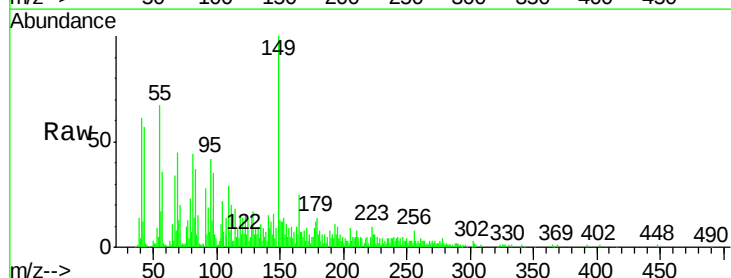
Tgt Ion:149 Resp: 39065

Ion Ratio Lower Upper

149 100

150 12.7 7.4 11.2#

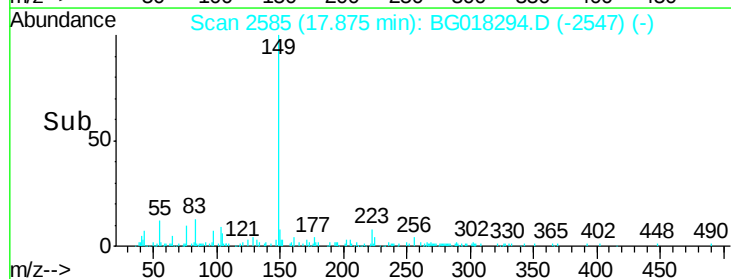
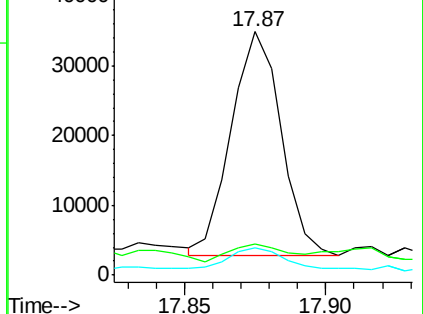
104 11.4 5.5 8.3#

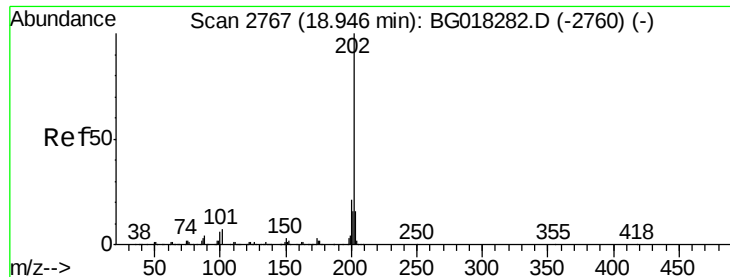


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

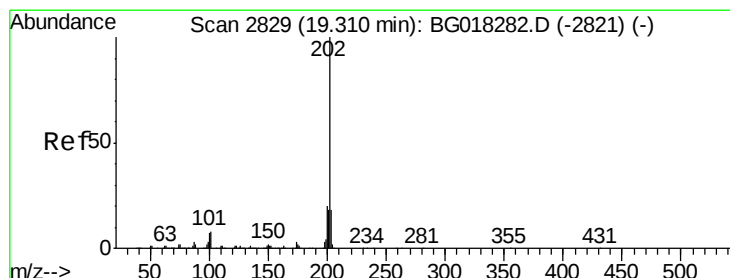
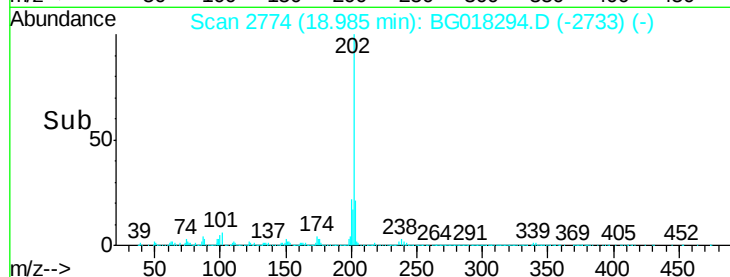
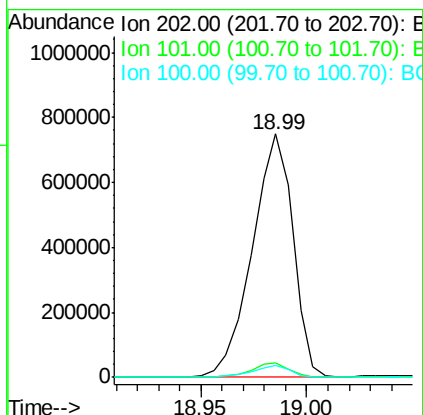
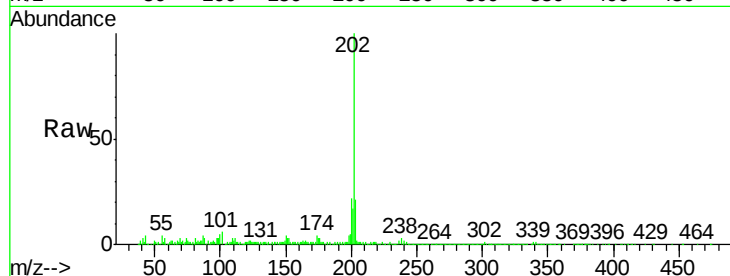




#77
 Fluoranthene
 Concen: 105.02 ng/ul
 RT: 18.99 min Scan# 2774
 Delta R.T. 0.04 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

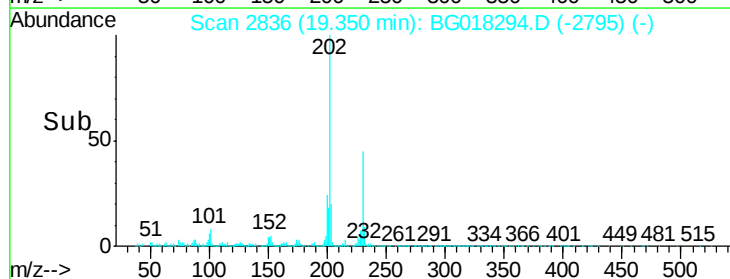
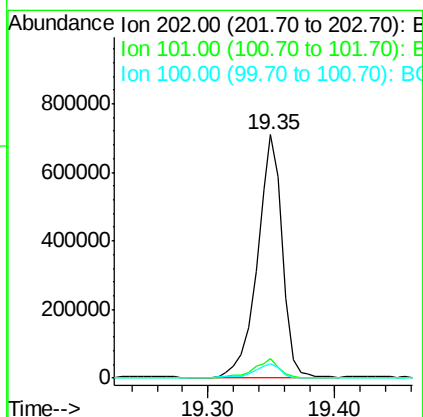
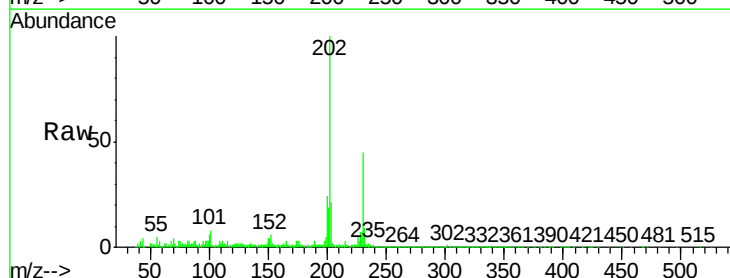
Instrument :
 BNA_G
 ClientSampleId :
 C02F4RE

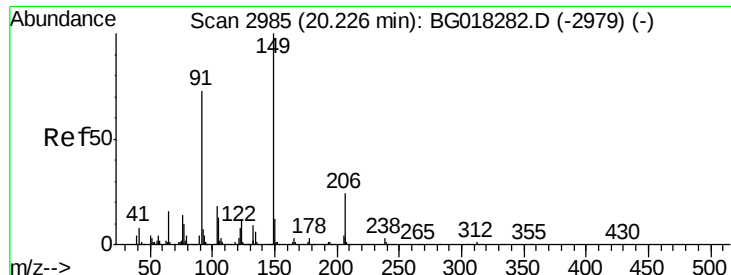
Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.9	6.2	9.2#
100	4.8	4.6	6.8



#80
 Pyrene
 Concen: 62.19 ng/ul
 RT: 19.35 min Scan# 2836
 Delta R.T. 0.04 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.0	6.2	9.2
100	5.7	4.6	7.0

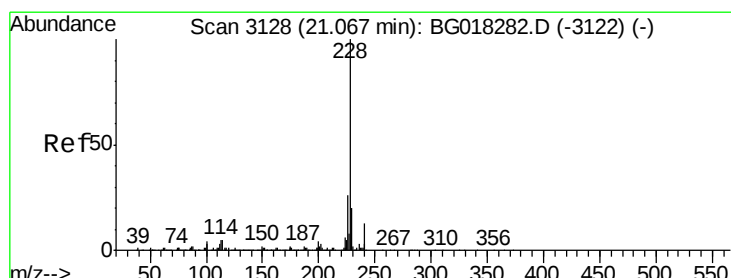
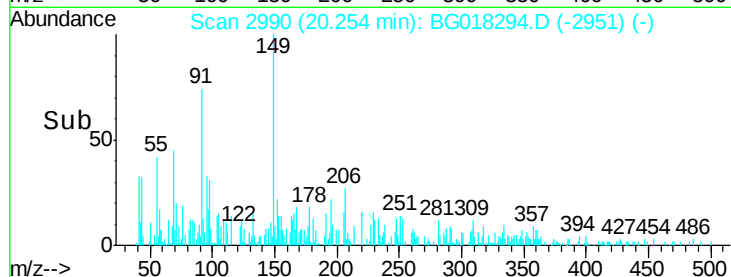
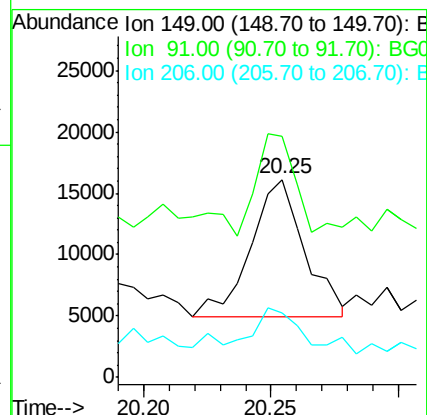
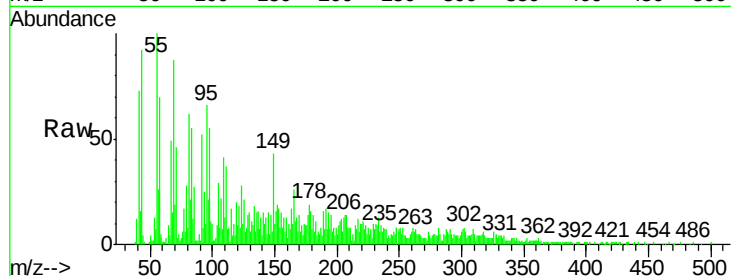




#81
Butylbenzylphthalate
Concen: 2.78 ng/ul
RT: 20.25 min Scan# 2990
Delta R.T. 0.03 min
Lab File: BG018294.D
Acq: 6 Aug 2015 5:01

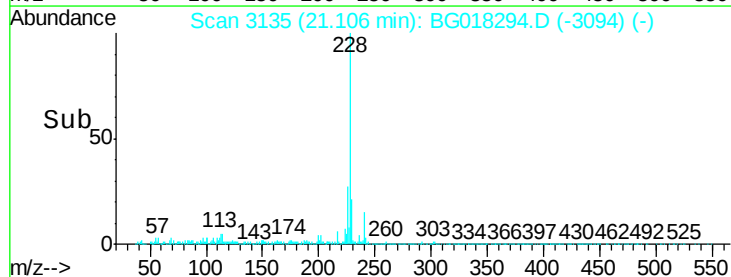
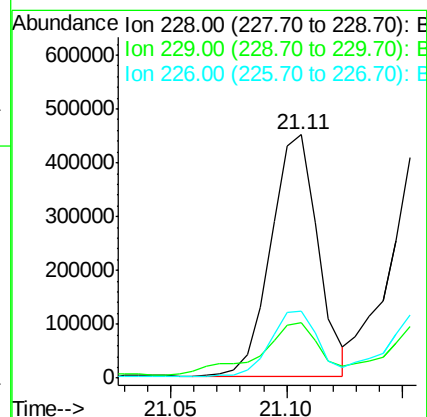
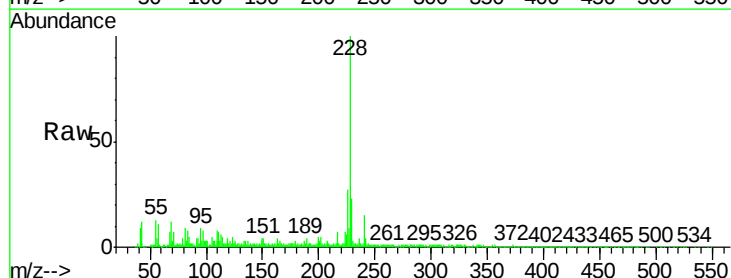
Instrument :
BNA_G
ClientSampleId :
C02F4RE

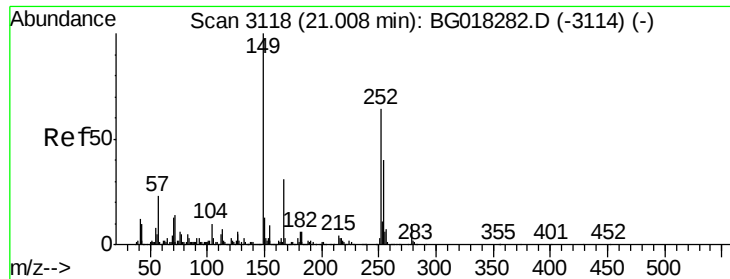
Tgt Ion:149 Resp: 16660
Ion Ratio Lower Upper
149 100
91 122.0 58.2 87.2#
206 32.4 19.9 29.9#



#83
Benzo(a)anthracene
Concen: 53.83 ng/ul
RT: 21.11 min Scan# 3135
Delta R.T. 0.04 min
Lab File: BG018294.D
Acq: 6 Aug 2015 5:01

Tgt Ion:228 Resp: 631606
Ion Ratio Lower Upper
228 100
229 22.8 16.3 24.5
226 27.3 21.2 31.8

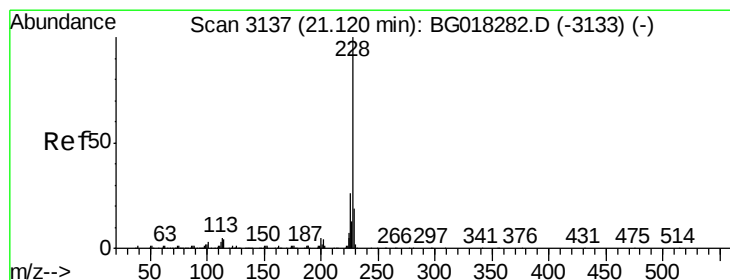
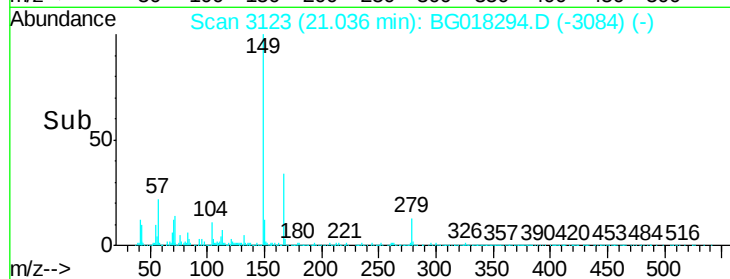
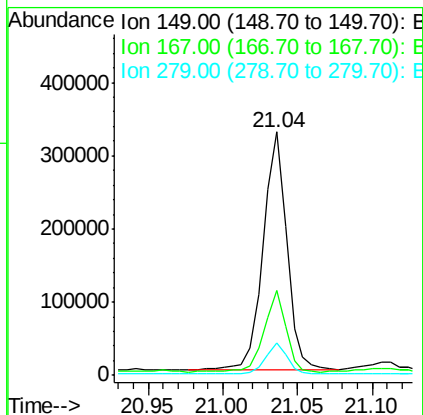
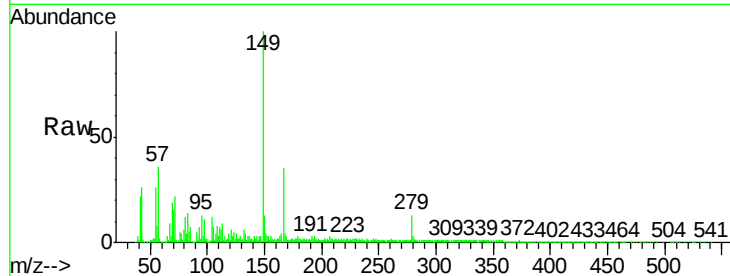




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 48.98 ng/ul
 RT: 21.04 min Scan# 3123
 Delta R.T. 0.03 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

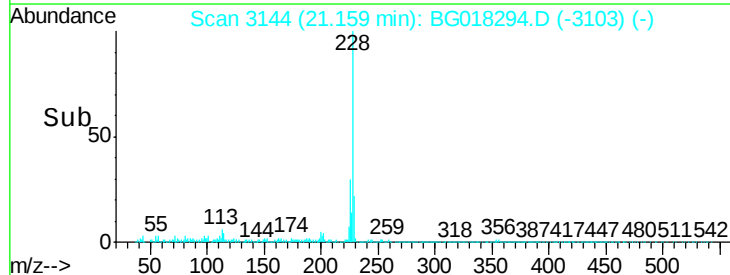
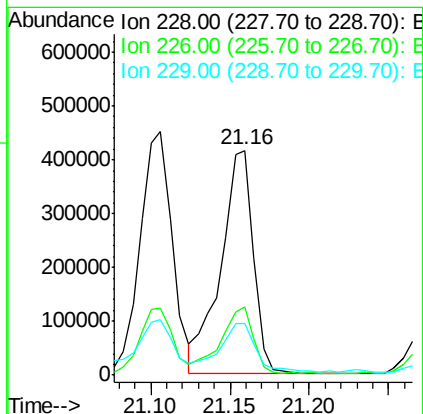
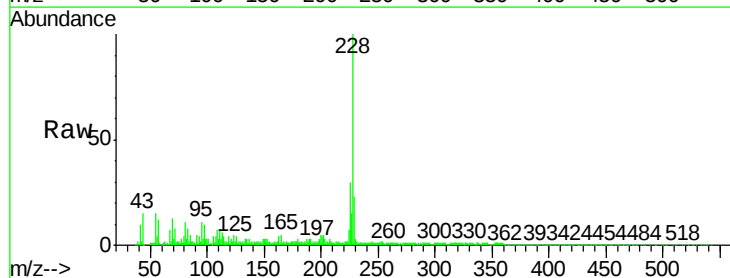
Instrument :
 BNA_G
 ClientSampleId :
 C02F4RE

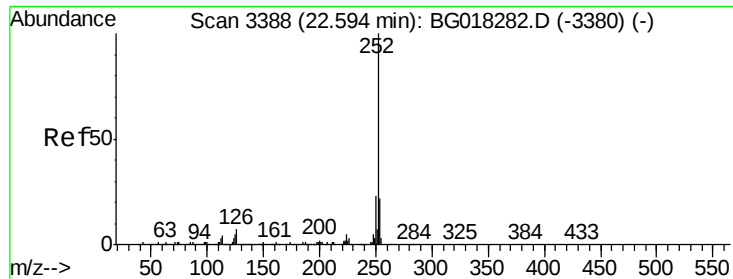
Tgt Ion:149 Resp: 353377
 Ion Ratio Lower Upper
 149 100
 167 35.1 26.4 39.6
 279 13.1 8.6 12.8#



#85
 Chrysene
 Concen: 56.12 ng/ul
 RT: 21.16 min Scan# 3144
 Delta R.T. 0.04 min
 Lab File: BG018294.D
 Acq: 6 Aug 2015 5:01

Tgt Ion:228 Resp: 591636
 Ion Ratio Lower Upper
 228 100
 226 30.1 23.0 34.6
 229 23.2 15.9 23.9





#88

Benzo(b)fluoranthene

Concen: 71.19 ng/ul

RT: 22.66 min Scan# 3399

Delta R.T. 0.06 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

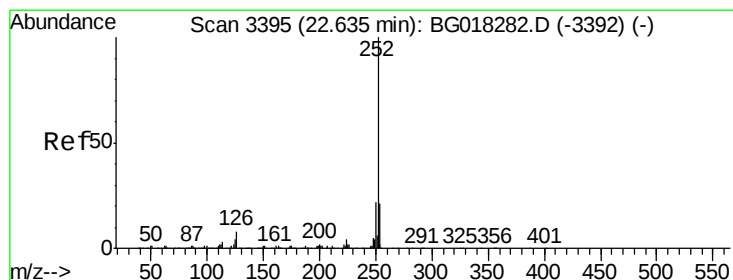
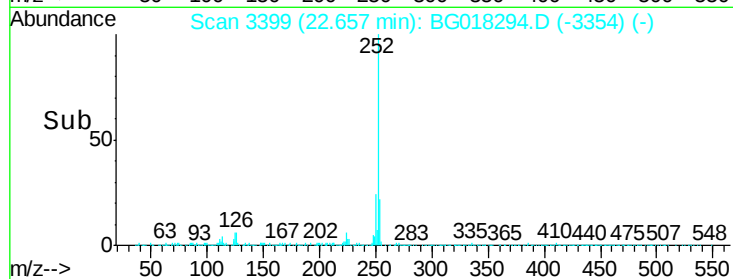
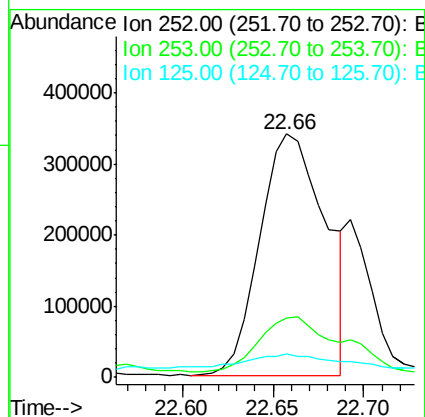
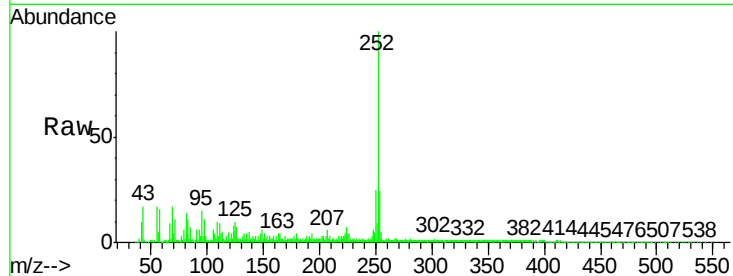
Instrument :

BNA_G

ClientSampleId :

C02F4RE

Tgt Ion:	252	Resp:	855427
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.1	27.1
125	9.7	3.1	4.7#



#89

Benzo(k)fluoranthene

Concen: 74.24 ng/ul

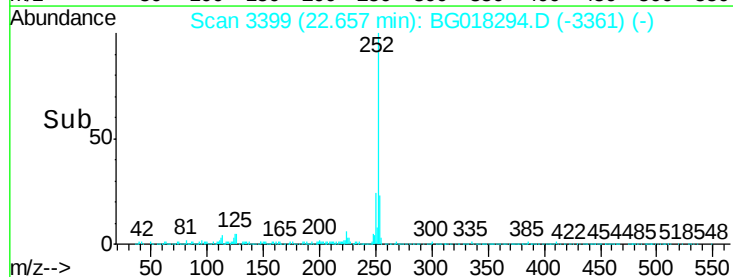
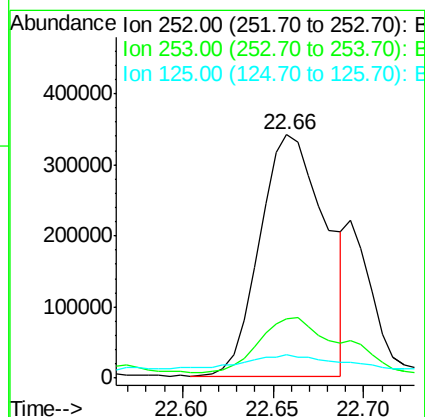
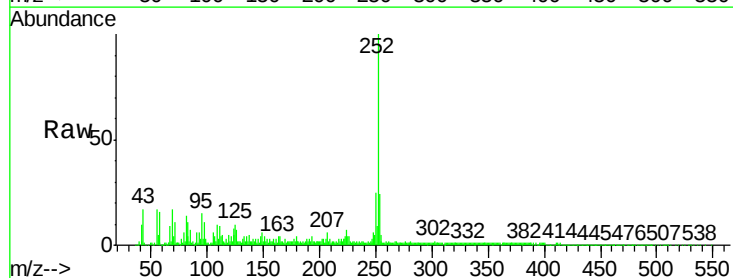
RT: 22.66 min Scan# 3399

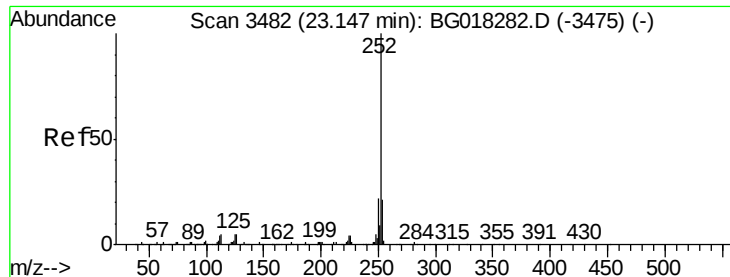
Delta R.T. 0.02 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Tgt Ion:	252	Resp:	855427
Ion Ratio	Lower	Upper	
252	100		
253	24.3	16.4	24.6
125	9.7	3.4	5.2#





#91

Benzo(a)pyrene

Concen: 47.35 ng/ul

RT: 23.22 min Scan# 3494

Delta R.T. 0.07 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

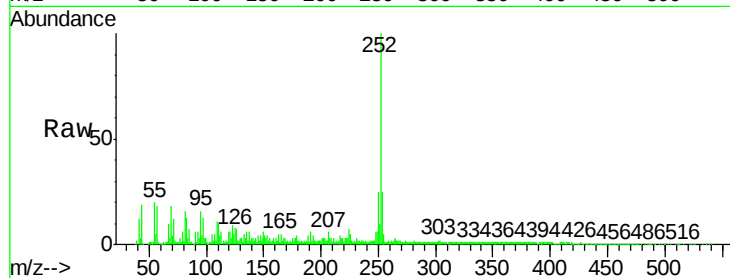
Tgt Ion:252 Resp: 496733

Ion Ratio Lower Upper

252 100

253 24.8 18.9 28.3

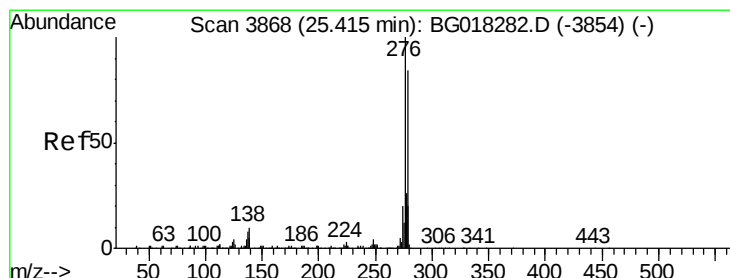
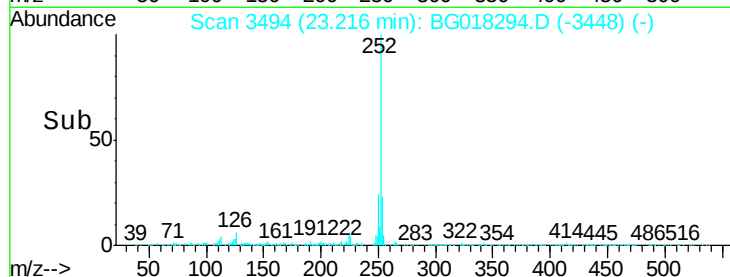
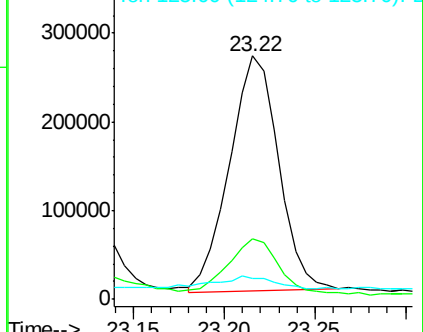
125 8.3 3.2 4.8#



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

Indeno(1,2,3-cd)pyrene

Concen: 15.45 ng/ul

RT: 25.52 min Scan# 3886

Delta R.T. 0.10 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

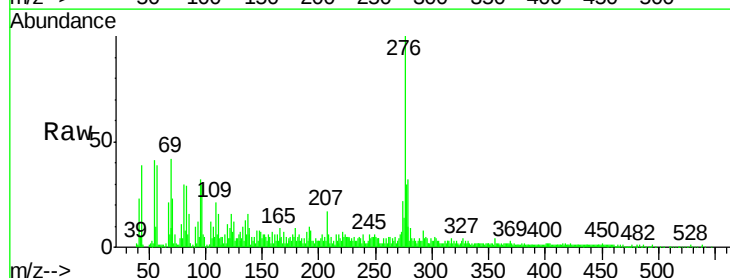
Tgt Ion:276 Resp: 200517

Ion Ratio Lower Upper

276 100

138 9.2 8.2 12.4

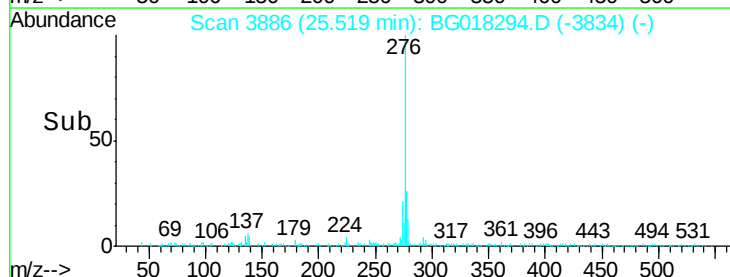
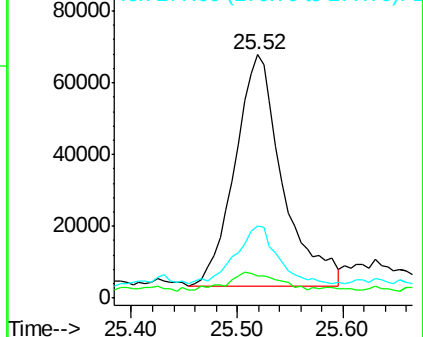
277 29.9 20.1 30.1

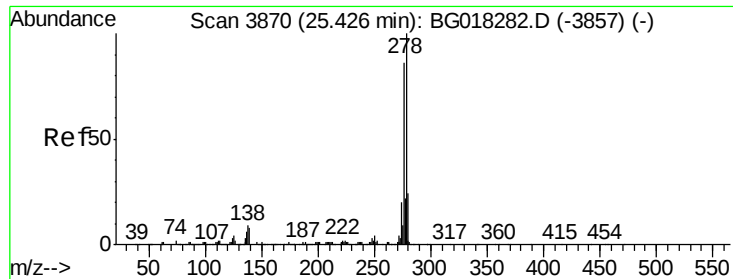


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 4.23 ng/ul

RT: 25.51 min Scan# 3885

Delta R.T. 0.09 min

Lab File: BG018294.D

Acq: 6 Aug 2015 5:01

Instrument :

BNA_G

ClientSampleId :

C02F4RE

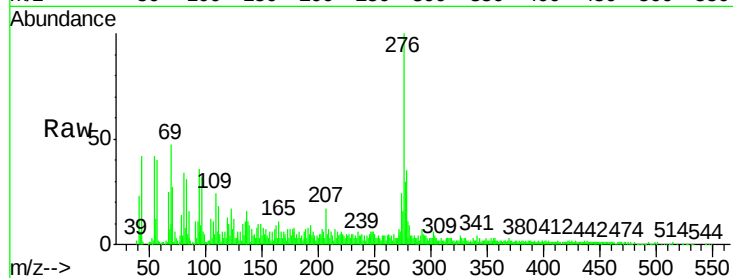
Tgt Ion:278 Resp: 48178

Ion Ratio Lower Upper

278 100

139 24.3 5.8 8.8#

279 32.5 19.8 29.6#



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

