

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020419.D
 Acq On : 22 Dec 2015 21:31
 Operator : UM/SJ
 Sample : G4787-17
 Misc : MED LEVEL RX
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9BN9ME

Quant Time: Dec 23 04:17:41 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 23 04:11:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	17923	20.00	ng/ul	0.00
18) Naphthalene-d8	10.91	136	76699	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.72	164	56549	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	123981	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	154144	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	148091	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.46	96	1179	3.63	ng/uL	0.00
5) Phenol-d5	7.24	99	30049	19.01	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	22975	24.36	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	27138	23.61	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	11919	8.82	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	17157	28.70	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	19359	29.10	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	28868	21.42	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	9405	6.21	ng/ul	-0.03
44) Dimethylphthalate-d6	14.12	166	113734	24.86	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	135584	25.48	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	11781	14.36	ng/ul	0.00
58) Fluorene-d10	15.71	176	103062	24.84	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	14415	19.61	ng/ul	0.00
71) Anthracene-d10	17.56	188	153283	26.83	ng/ul	0.00
79) Pyrene-d10	19.85	212	186110	25.90	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	204840	27.73	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.22	77	9890	9.67	ng/ul#	1
14) Acetophenone	8.89	105	6079	2.87	ng/ul#	35
17) Hexachloroethane	9.19	117	11513	22.76	ng/ul#	1
20) Nitrobenzene	9.28	77	2110	1.33	ng/ul#	9
28) Naphthalene	10.98	128	2952382	737.11	ng/ul#	83
32) Caprolactam	11.91	113	5657	11.58	ng/ul#	43
34) 2-Methylnaphthalene	12.58	142	1598962	522.63	ng/ul	98
35) 1-Methylnaphthalene	12.79	142	923687	314.04	ng/ul#	96
41) 1,1'-Biphenyl	13.55	154	153787	36.05	ng/ul	95
45) Dimethylphthalate	14.17	163	19845	4.25	ng/ul	96
48) Acenaphthylene	14.44	152	43199	7.64	ng/ul#	71
50) Acenaphthene	14.79	153	552431	145.22	ng/ul	97
54) Dibenzofuran	15.11	168	72775	12.86	ng/ul	89
55) 2,4-Dinitrotoluene	15.07	165	1990	1.40	ng/ul#	45
59) Fluorene	15.77	166	326229	71.79	ng/ul	99
65) N-Nitrosodiphenylamine	15.97	169	16998	4.93	ng/ul#	1
70) Phenanthrene	17.52	178	1428901	210.70	ng/ul	93
72) Anthracene	17.60	178	392692	57.09	ng/ul	98
75) Carbazole	17.87	167	13069	2.26	ng/ul#	68
77) Fluoranthene	19.51	202	540034	68.14	ng/ul	98
80) Pyrene	19.88	202	829760	88.94	ng/ul	99
83) Benzo(a)anthracene	21.72	228	316547	35.19	ng/ul	93
85) Chrysene	21.79	228	278634	32.89	ng/ul	96

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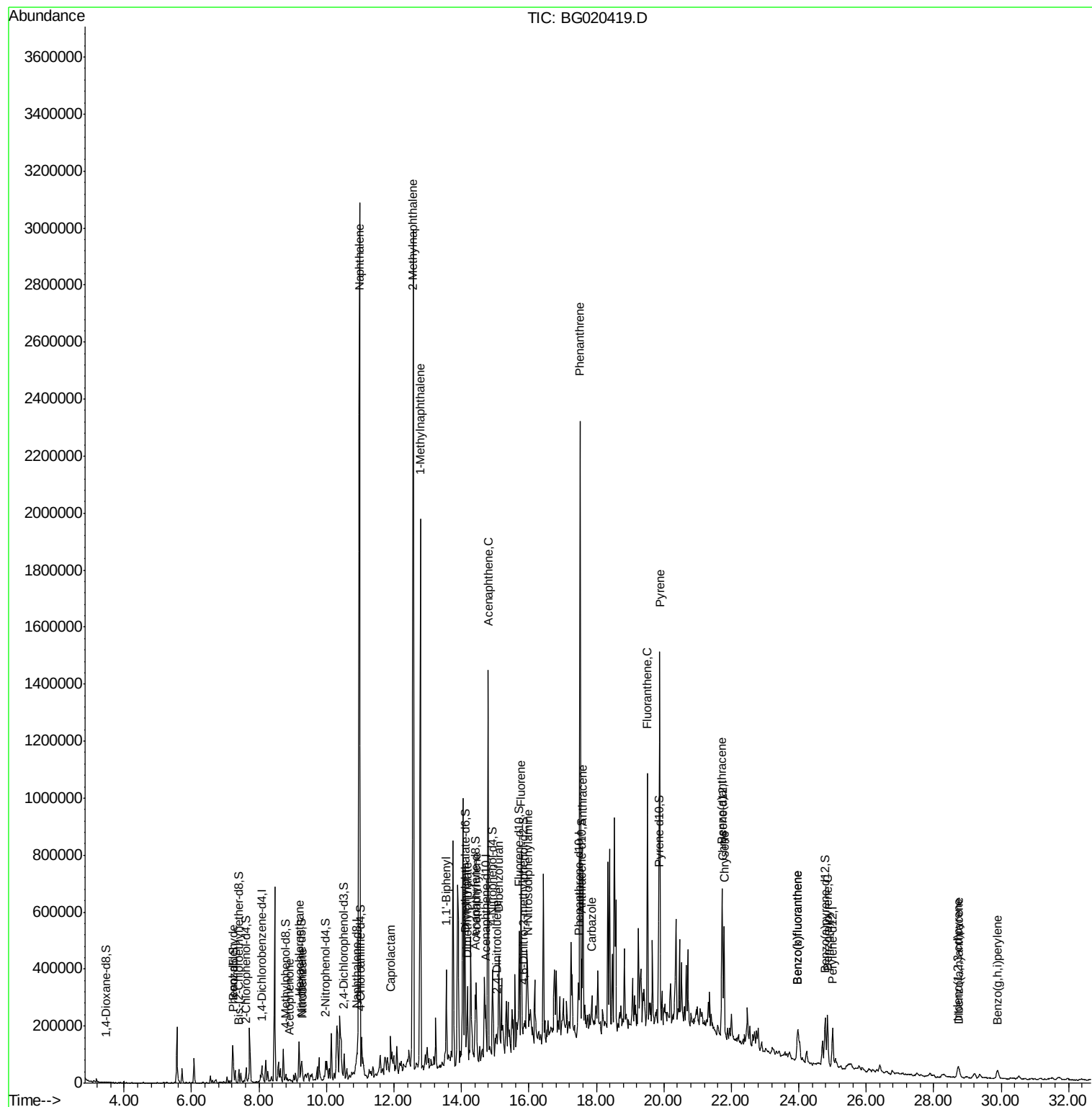
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	23.97	252	167025	18.74	ng/ul	95
89) Benzo(k)fluoranthene	23.97	252	167025	19.53	ng/ul	97
91) Benzo(a)pyrene	24.86	252	183705	21.74	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.72	276	70619	7.02	ng/ul#	96
93) Dibenzo(a,h)anthracene	28.76	278	11293	1.35	ng/ul#	95
94) Benzo(g,h,i)perylene	29.88	276	64969	7.88	ng/ul	99

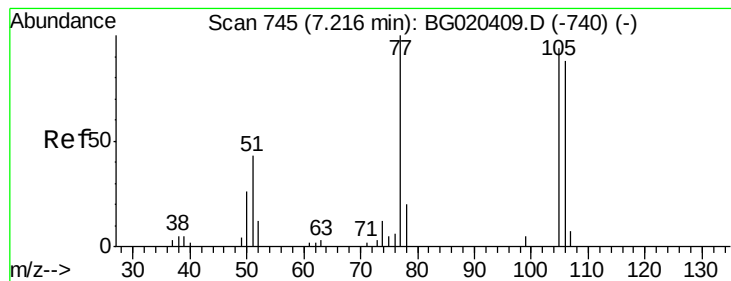
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 9.67 ng/ul

RT: 7.22 min Scan# 745

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

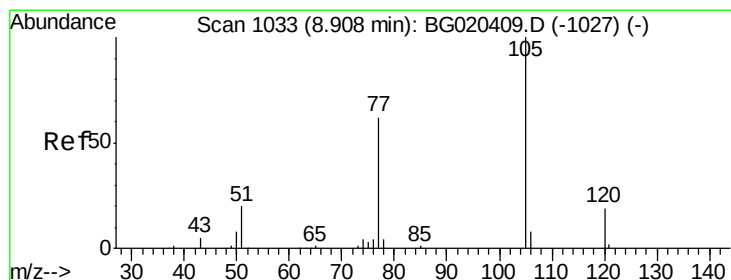
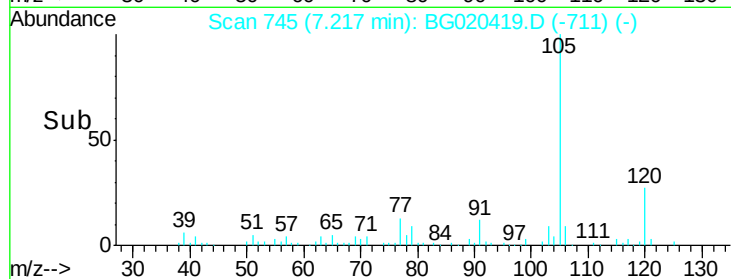
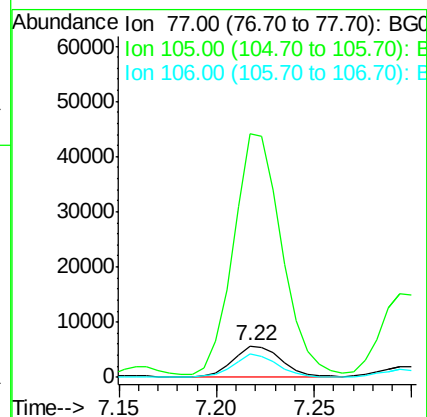
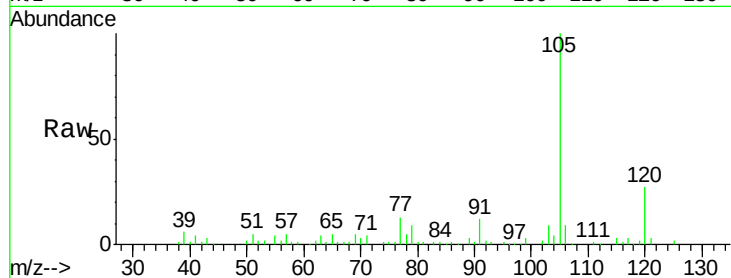
Tgt Ion: 77 Resp: 9890

Ion Ratio Lower Upper

77 100

105 769.6 77.8 116.6#

106 72.6 72.6 109.0#



#14

Acetophenone

Concen: 2.87 ng/ul

RT: 8.89 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

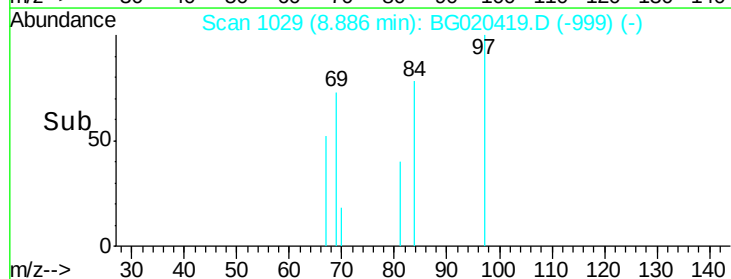
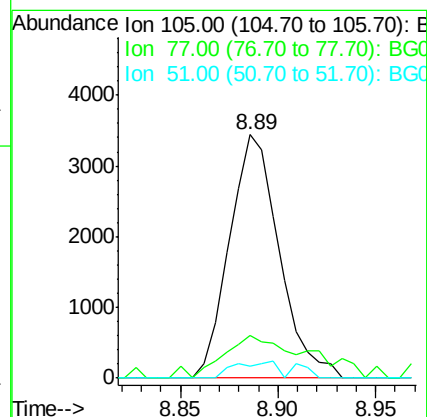
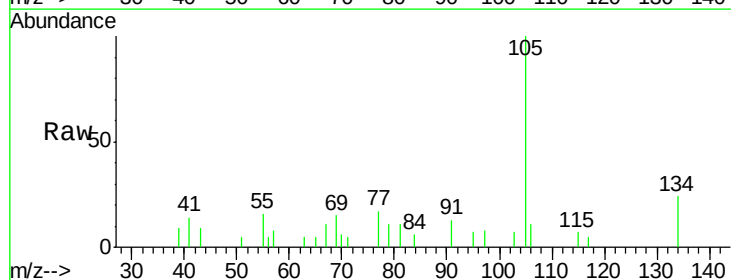
Tgt Ion: 105 Resp: 6079

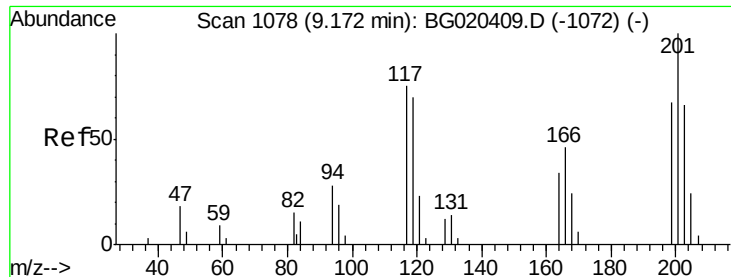
Ion Ratio Lower Upper

105 100

77 17.5 65.2 97.8#

51 4.7 22.6 33.8#





#17

Hexachloroethane

Concen: 22.76 ng/ul

RT: 9.19 min Scan# 1081

Delta R.T. 0.02 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

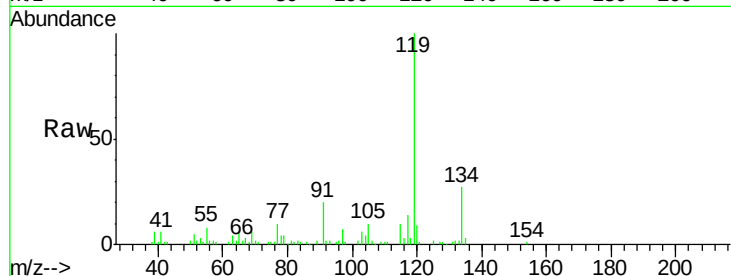
Tgt Ion: 117 Resp: 11513

Ion Ratio Lower Upper

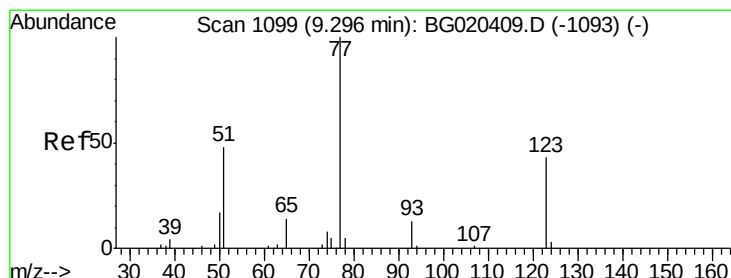
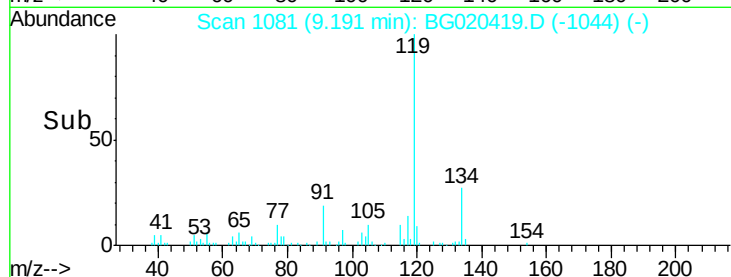
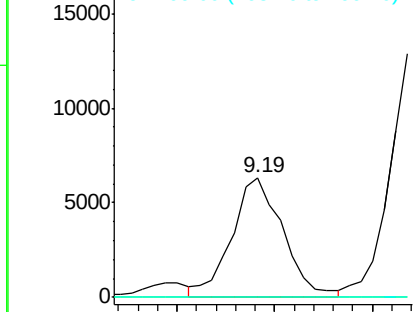
117 100

201 0.0 102.7 154.1#

199 0.0 65.8 98.8#



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



#20

Nitrobenzene

Concen: 1.33 ng/ul

RT: 9.28 min Scan# 1096

Delta R.T. -0.02 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

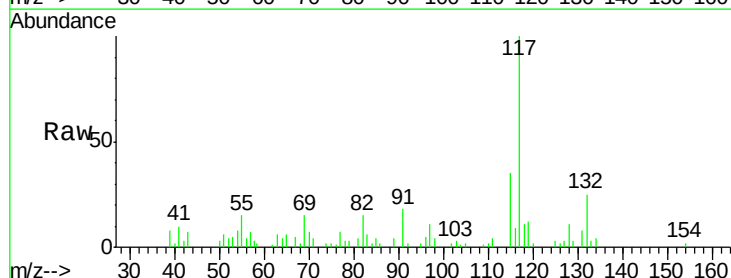
Tgt Ion: 77 Resp: 2110

Ion Ratio Lower Upper

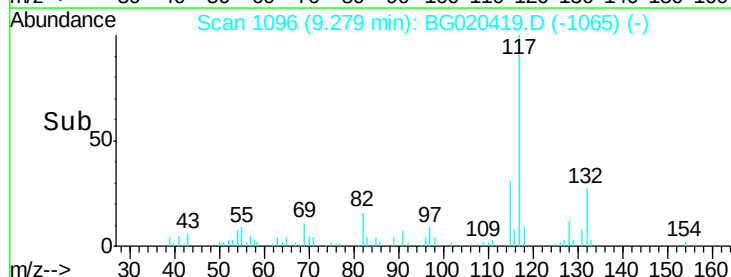
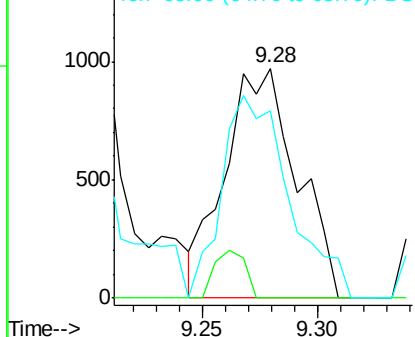
77 100

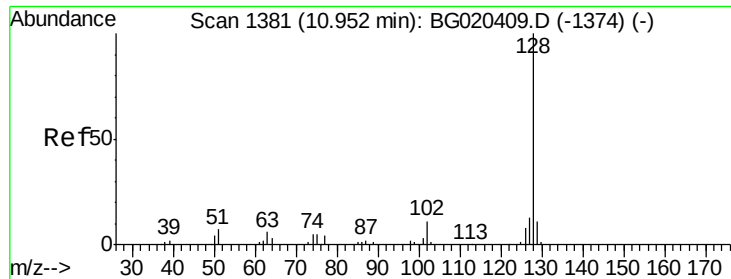
123 0.0 33.4 50.0#

65 81.6 11.7 17.5#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): E
Ion 65.00 (64.70 to 65.70): BGC





#28

Naphthalene

Concen: 737.11 ng/ul

RT: 10.98 min Scan# 1386

Delta R.T. 0.03 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

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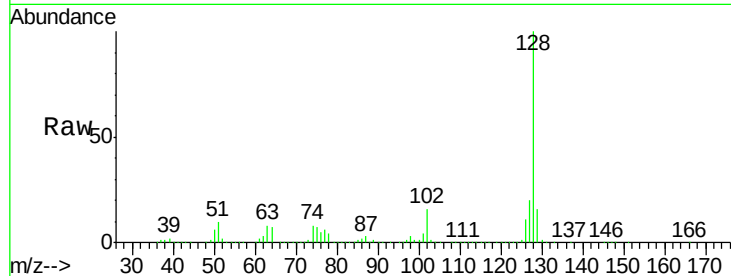
Tgt Ion:128 Resp: 2952382

Ion Ratio Lower Upper

128 100

129 15.9 8.6 12.8#

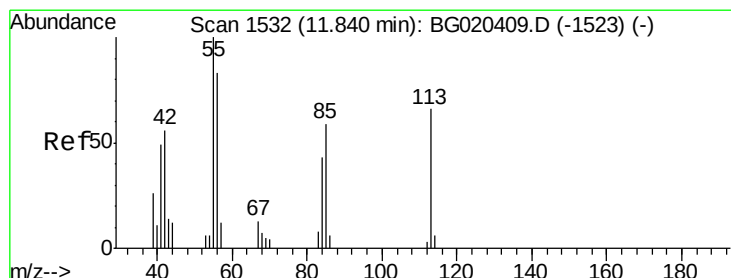
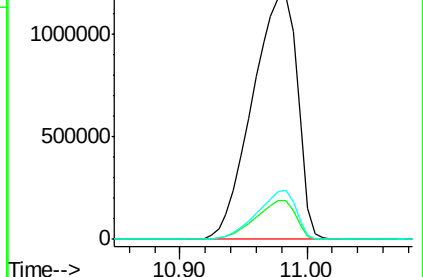
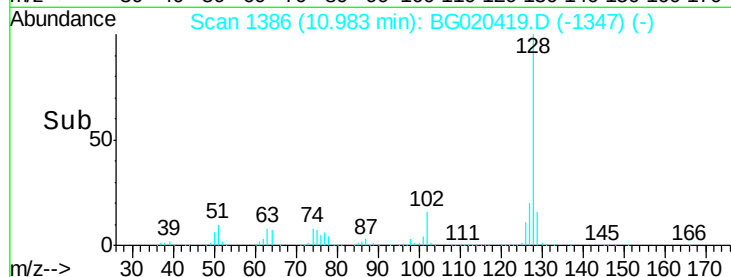
127 20.2 10.1 15.1#



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



#32

Caprolactam

Concen: 11.58 ng/ul

RT: 11.91 min Scan# 1543

Delta R.T. 0.07 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

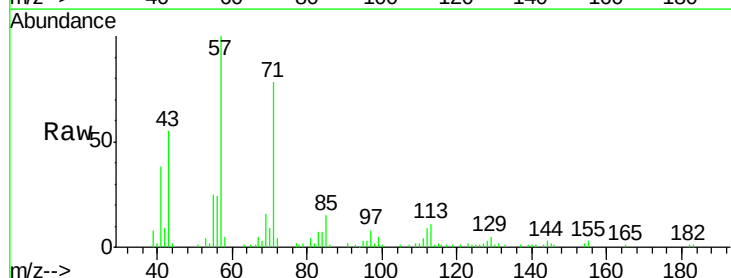
Tgt Ion:113 Resp: 5657

Ion Ratio Lower Upper

113 100

55 225.9 132.1 198.1#

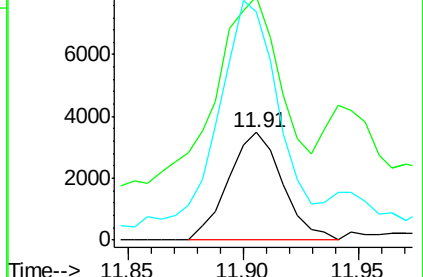
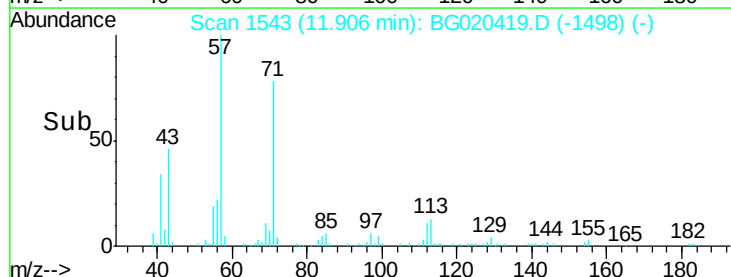
56 211.7 103.3 154.9#

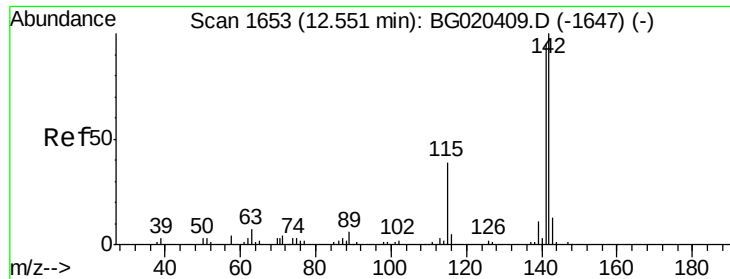


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BG0

Ion 56.00 (55.70 to 56.70): BG0

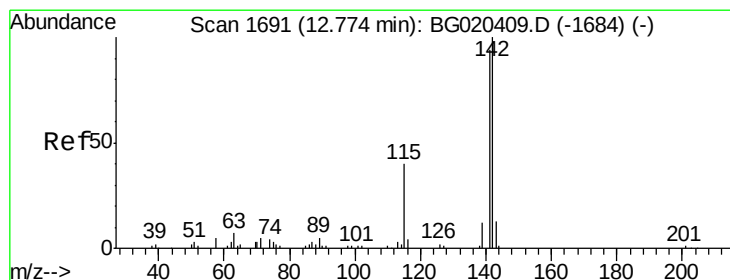
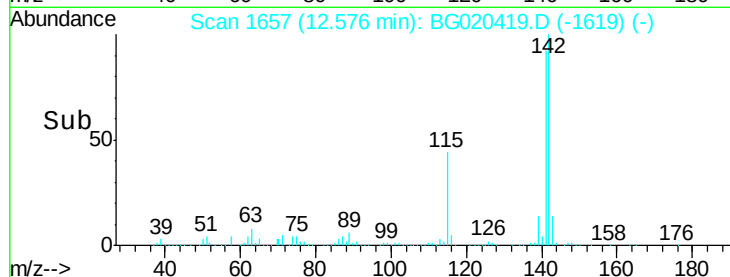
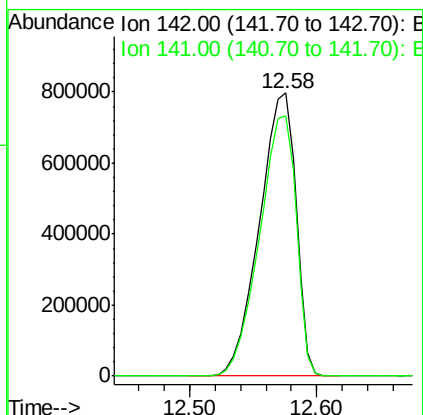
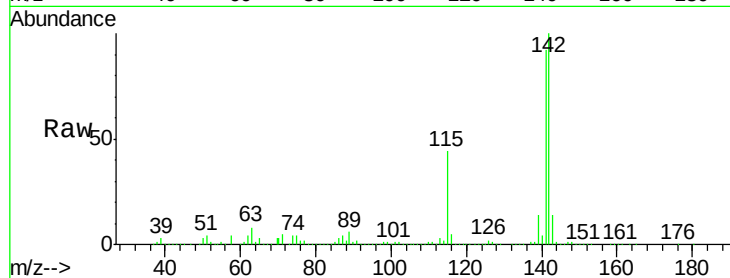




#34
2-Methylnaphthalene
Concen: 522.63 ng/ul
RT: 12.58 min Scan# 1657
Delta R.T. 0.03 min
Lab File: BG020419.D
Acq: 22 Dec 2015 21:31

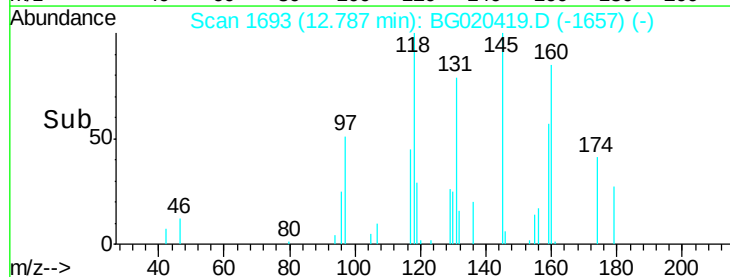
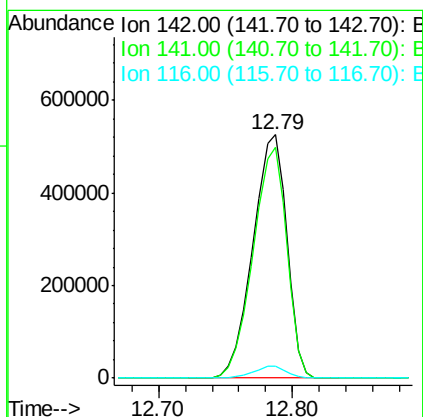
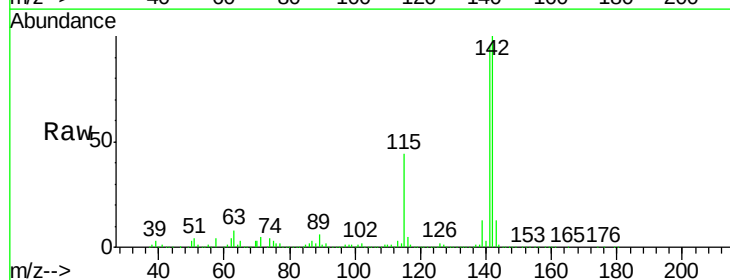
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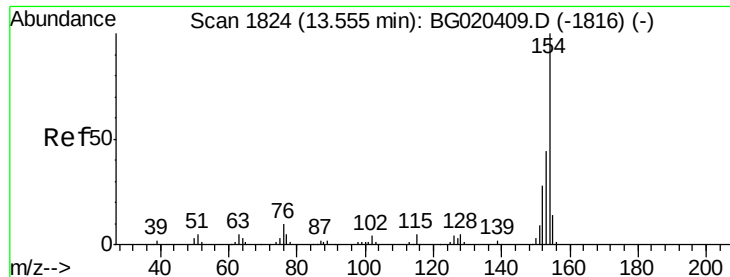
Tgt Ion:142 Resp: 1598962
Ion Ratio Lower Upper
142 100
141 92.1 74.9 112.3



#35
1-Methylnaphthalene
Concen: 314.04 ng/ul
RT: 12.79 min Scan# 1693
Delta R.T. 0.01 min
Lab File: BG020419.D
Acq: 22 Dec 2015 21:31

Tgt Ion:142 Resp: 923687
Ion Ratio Lower Upper
142 100
141 94.7 73.0 109.6
116 4.8 3.0 4.6#





#41

1,1'-Biphenyl

Concen: 36.05 ng/ul

RT: 13.55 min Scan# 1823

Delta R.T. -0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

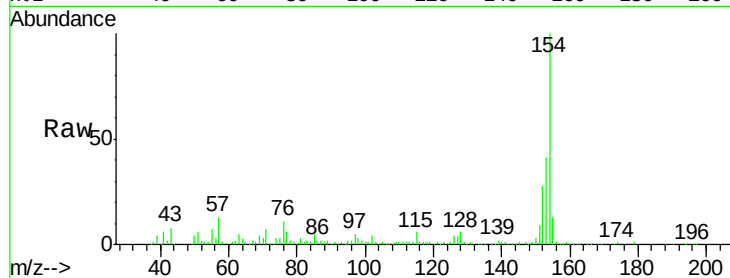
Tgt Ion:154 Resp: 153787

Ion Ratio Lower Upper

154 100

153 40.6 35.5 53.3

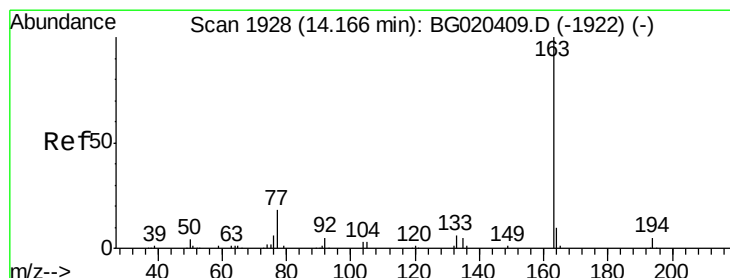
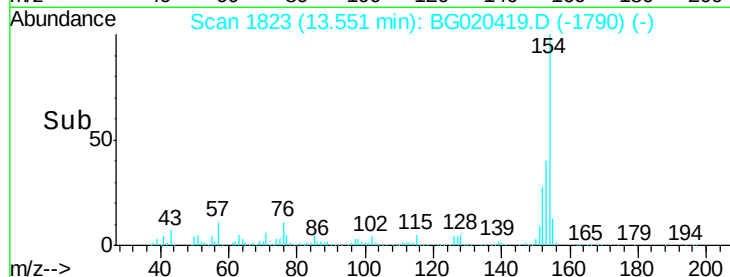
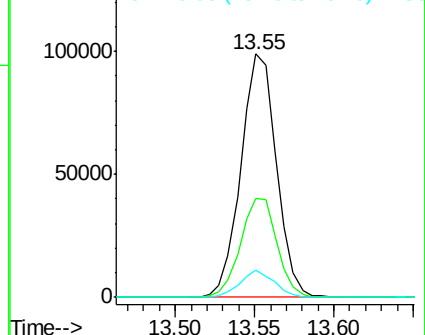
76 11.3 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): B



#45

Dimethylphthalate

Concen: 4.25 ng/ul

RT: 14.17 min Scan# 1928

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

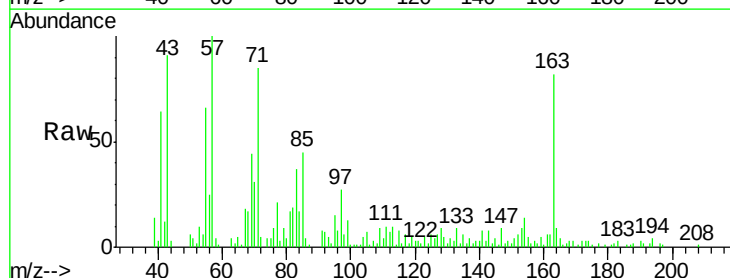
Tgt Ion:163 Resp: 19845

Ion Ratio Lower Upper

163 100

194 5.0 3.5 5.3

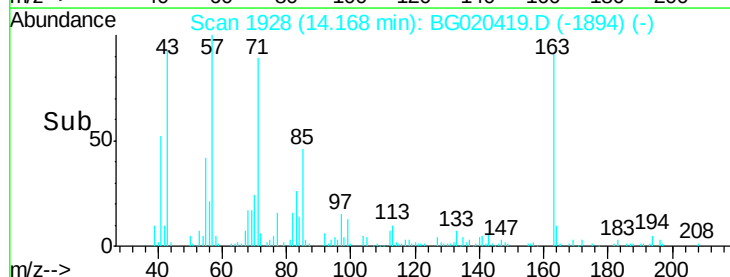
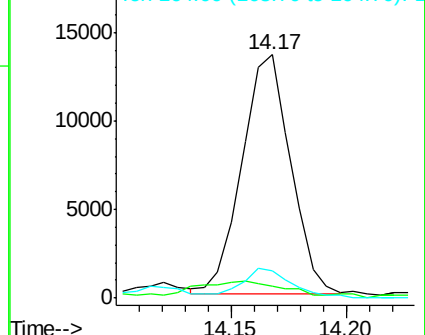
164 11.3 7.7 11.5

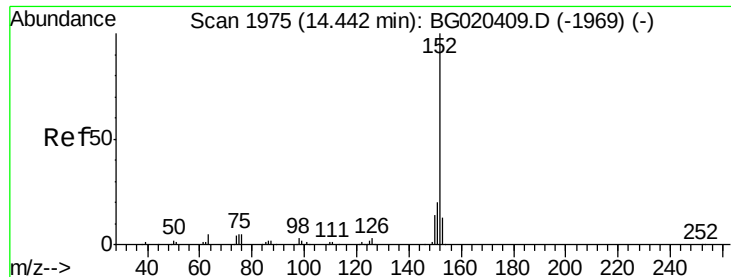


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 7.64 ng/ul

RT: 14.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: BG020419.D

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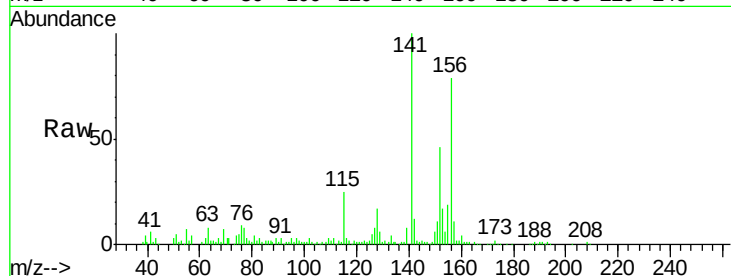
Tgt Ion:152 Resp: 43199

Ion Ratio Lower Upper

152 100

151 23.9 16.4 24.6

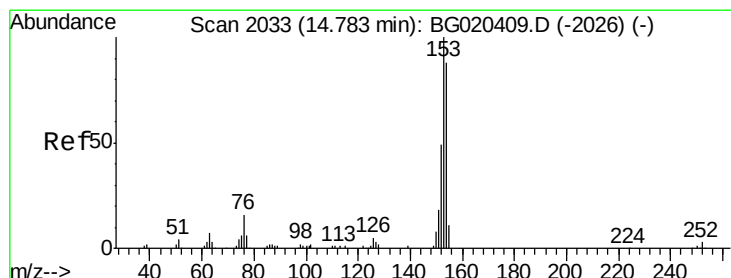
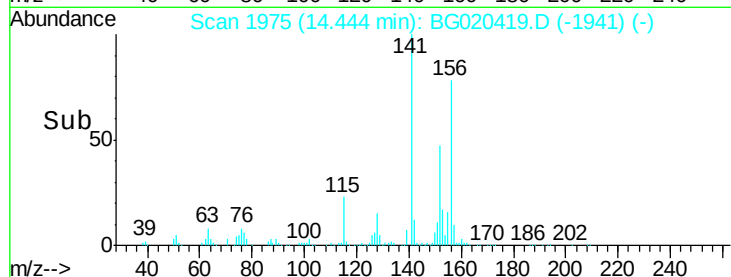
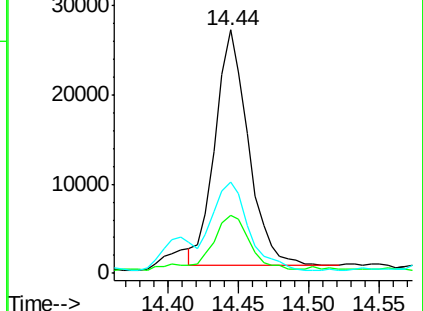
153 37.6 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 145.22 ng/ul

RT: 14.79 min Scan# 2034

Delta R.T. 0.01 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

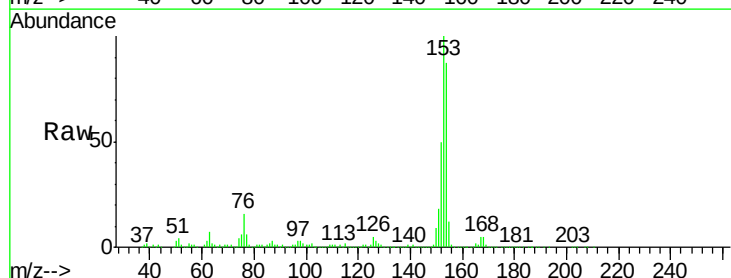
Tgt Ion:153 Resp: 552431

Ion Ratio Lower Upper

153 100

152 50.1 37.6 56.4

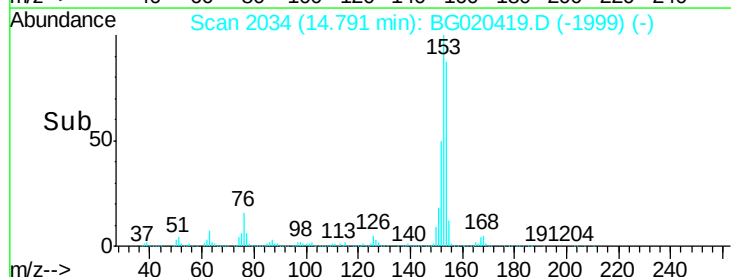
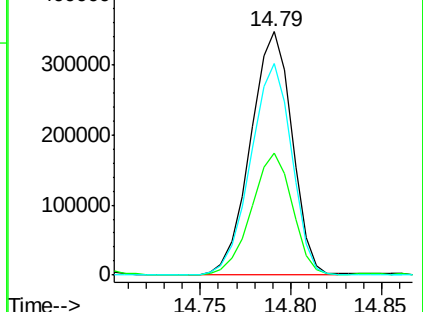
154 87.0 67.9 101.9

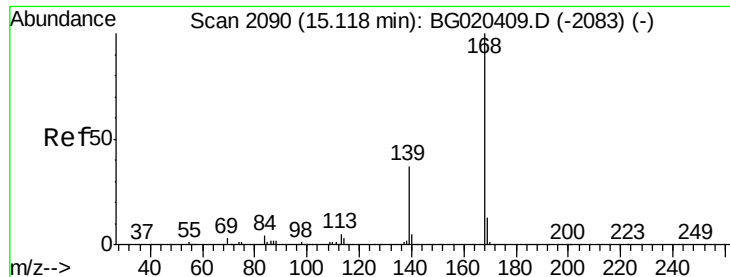


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 12.86 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. -0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

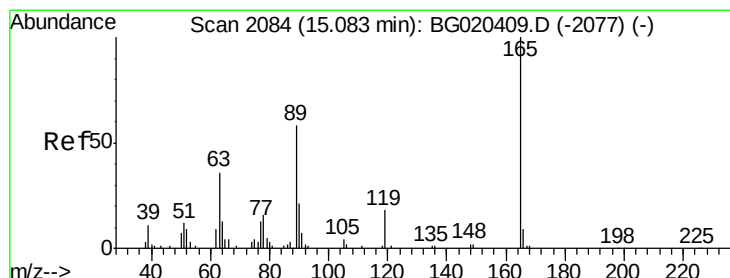
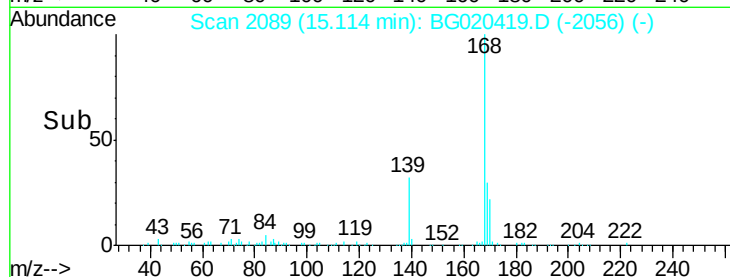
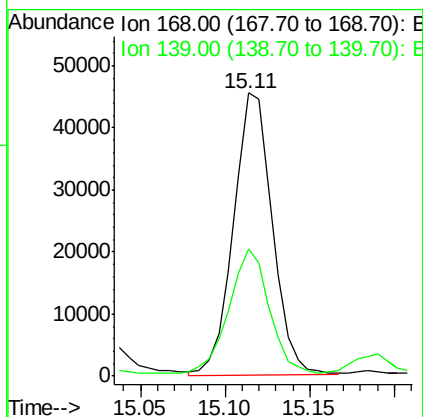
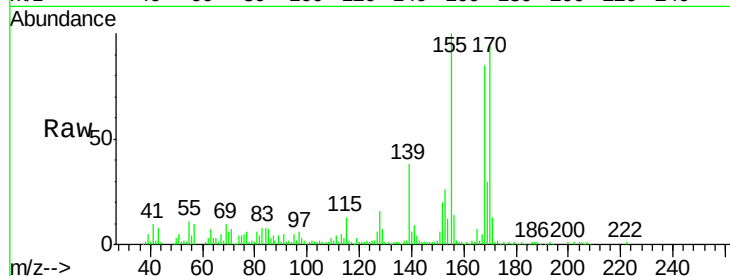
G9BN9ME

Tgt Ion:168 Resp: 72775

Ion Ratio Lower Upper

168 100

139 45.0 30.5 45.7



#55

2,4-Dinitrotoluene

Concen: 1.40 ng/ul

RT: 15.07 min Scan# 2081

Delta R.T. -0.02 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

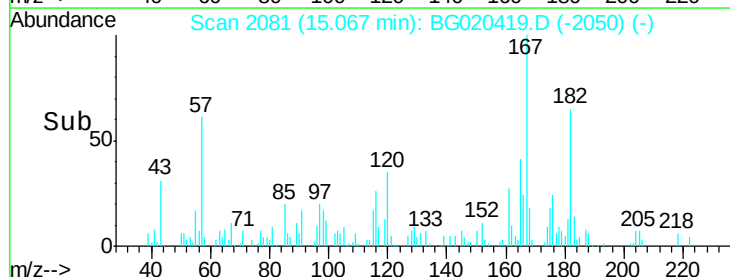
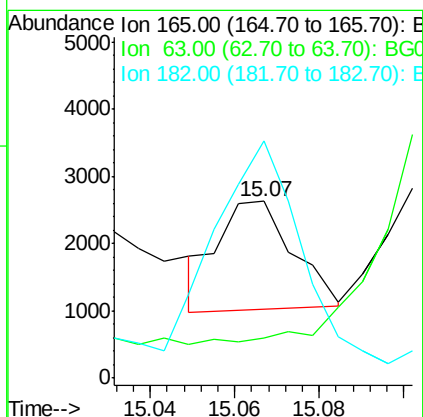
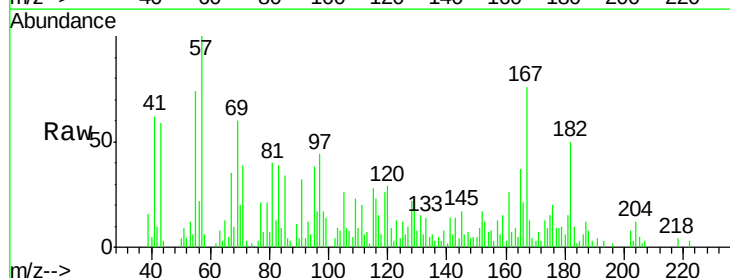
Tgt Ion:165 Resp: 1990

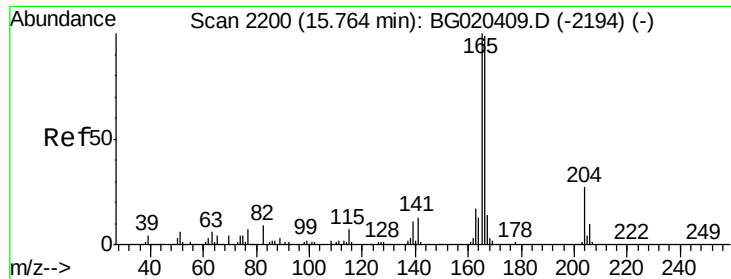
Ion Ratio Lower Upper

165 100

63 22.4 35.8 53.8#

182 134.4 2.2 3.2#





#59

Fluorene

Concen: 71.79 ng/ul

RT: 15.77 min Scan# 2200

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

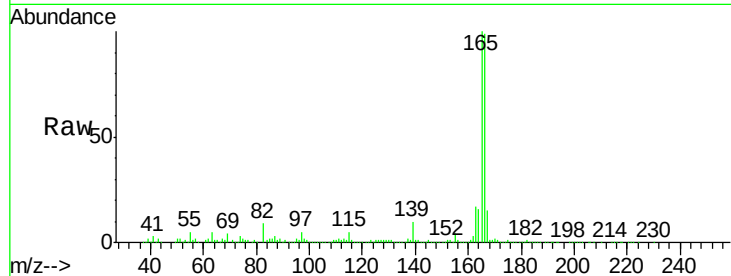
Tgt Ion:166 Resp: 326229

Ion Ratio Lower Upper

166 100

165 101.1 81.4 122.0

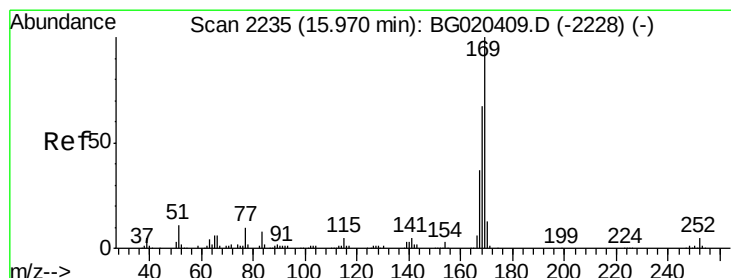
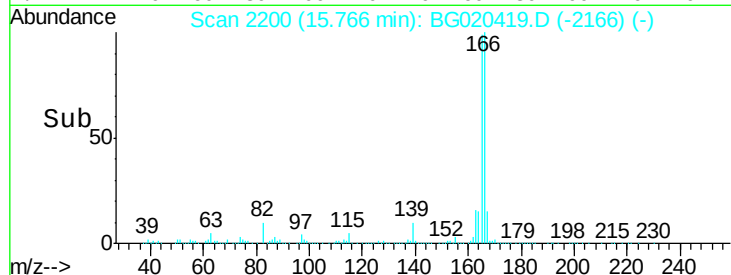
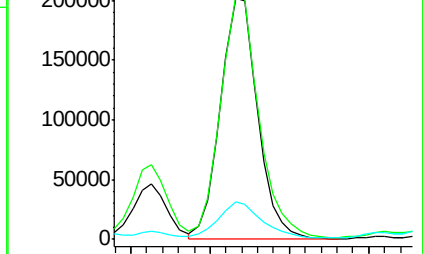
167 15.4 11.2 16.8



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: 4.93 ng/ul

RT: 15.97 min Scan# 2235

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

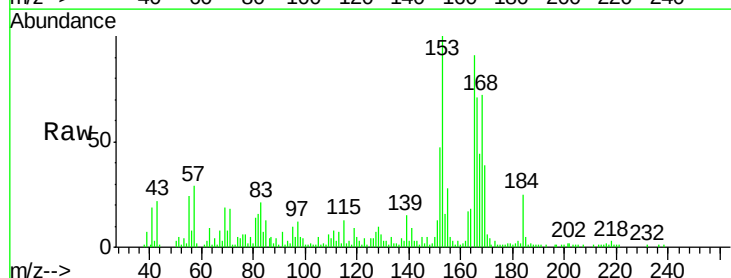
Tgt Ion:169 Resp: 16998

Ion Ratio Lower Upper

169 100

168 182.2 54.3 81.5#

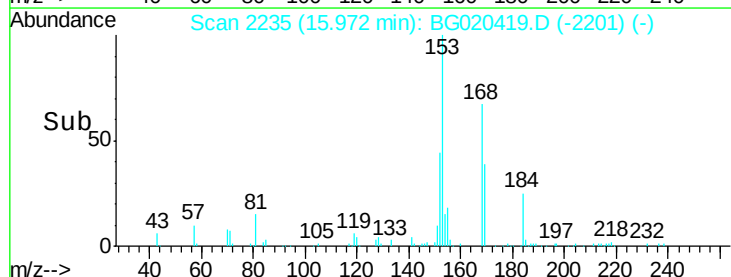
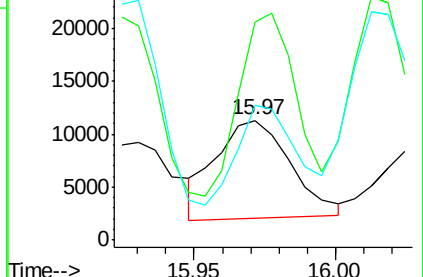
167 112.7 31.8 47.8#

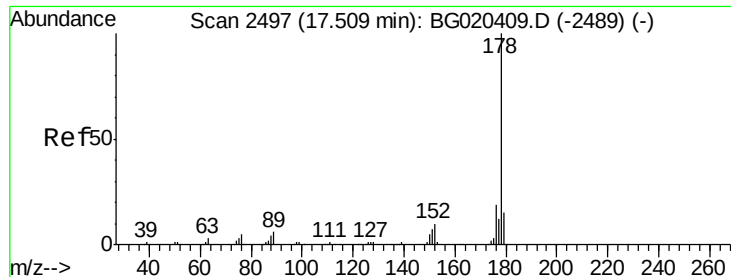


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 210.70 ng/ul

RT: 17.52 min Scan# 2498

Delta R.T. 0.01 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

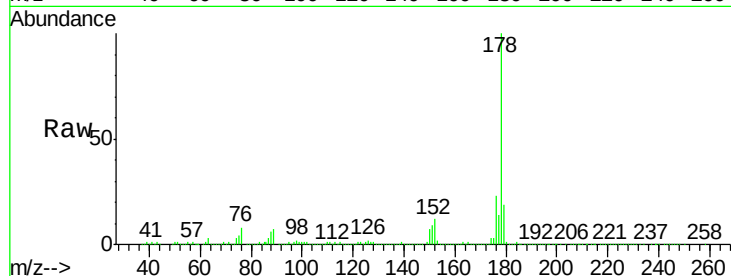
Tgt Ion:178 Resp: 1428901

Ion Ratio Lower Upper

178 100

179 18.9 12.9 19.3

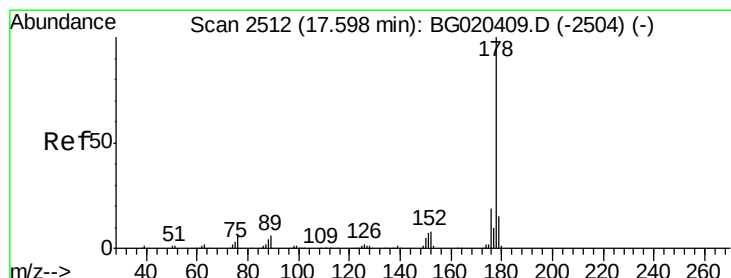
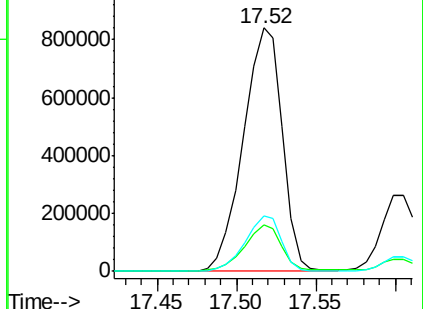
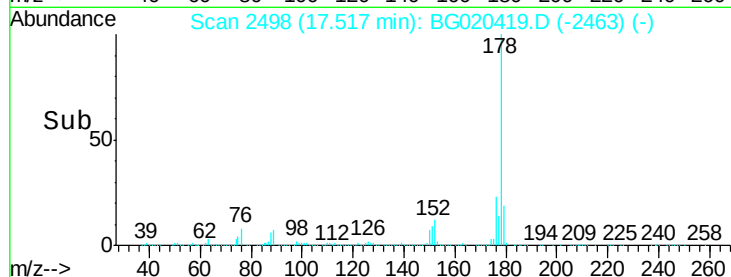
176 22.8 15.3 22.9



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



#72

Anthracene

Concen: 57.09 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

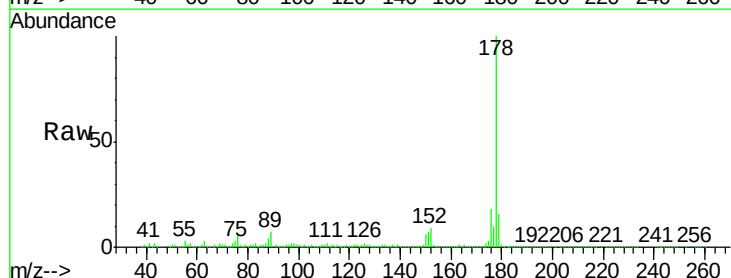
Tgt Ion:178 Resp: 392692

Ion Ratio Lower Upper

178 100

179 16.4 12.3 18.5

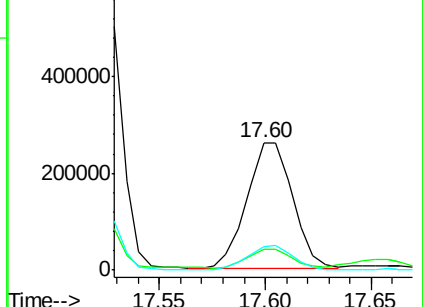
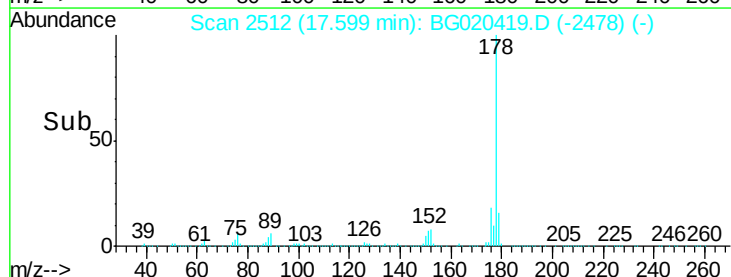
176 18.3 14.3 21.5

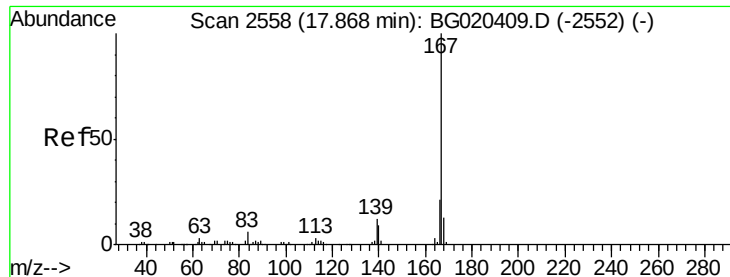


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 2.26 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

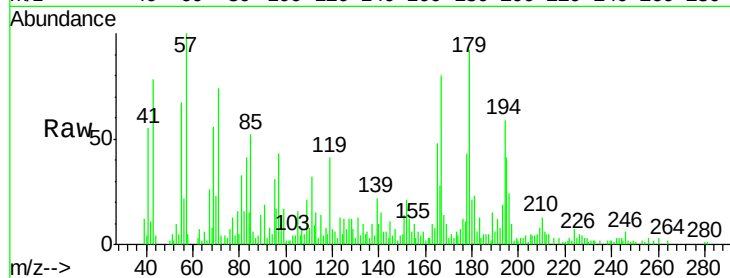
Tgt Ion:167 Resp: 13069

Ion Ratio Lower Upper

167 100

166 35.1 17.0 25.6#

139 27.0 10.1 15.1#

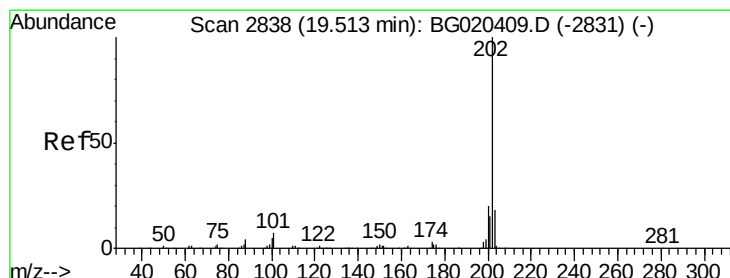
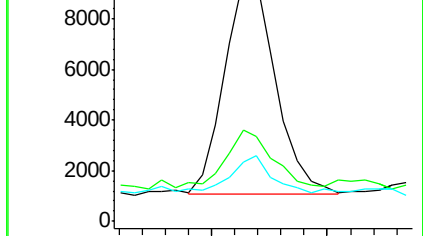
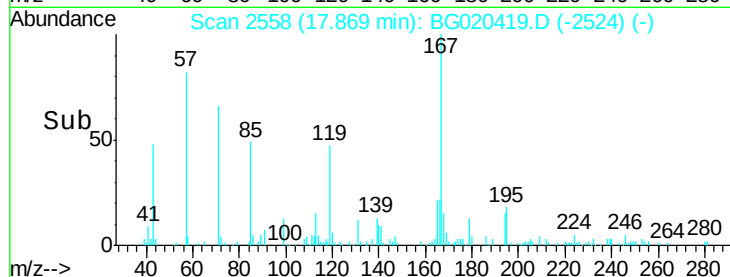


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



#77

Fluoranthene

Concen: 68.14 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

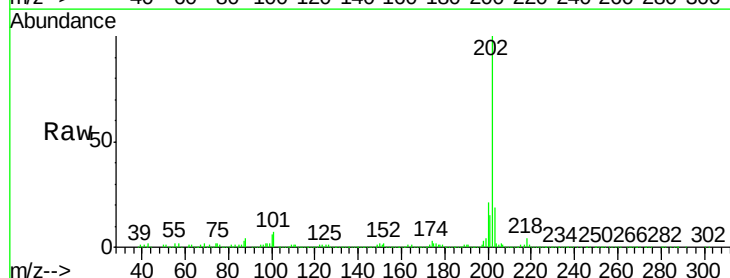
Tgt Ion:202 Resp: 540034

Ion Ratio Lower Upper

202 100

101 7.1 6.2 9.4

100 5.6 5.1 7.7

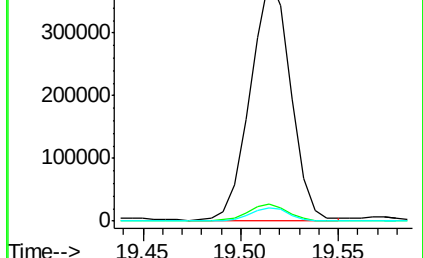
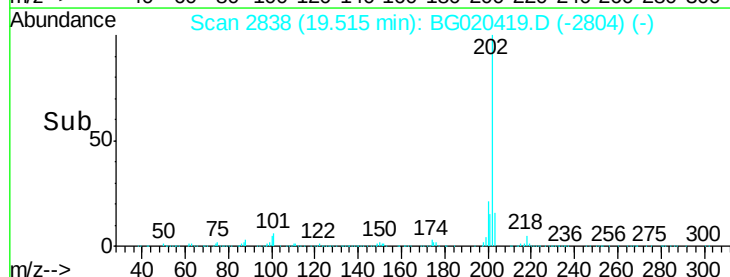


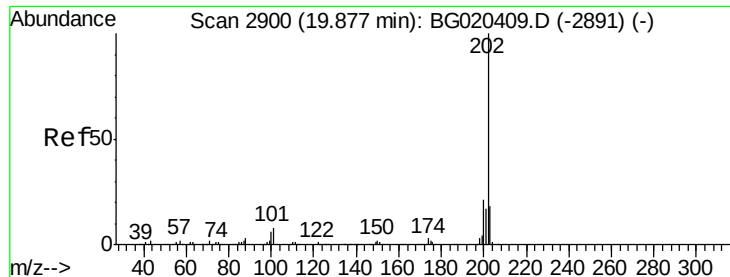
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

Time-->

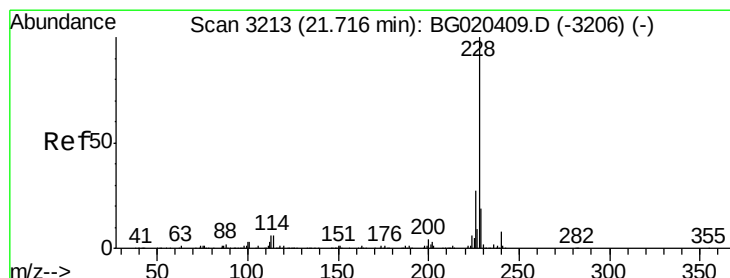
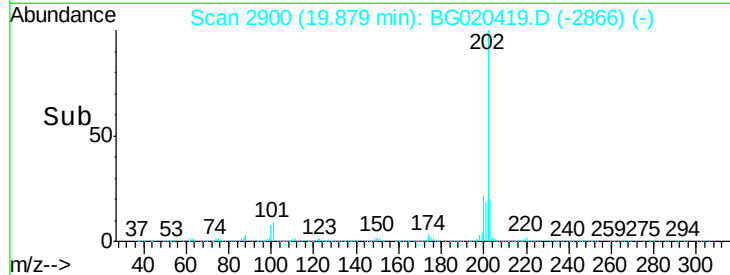
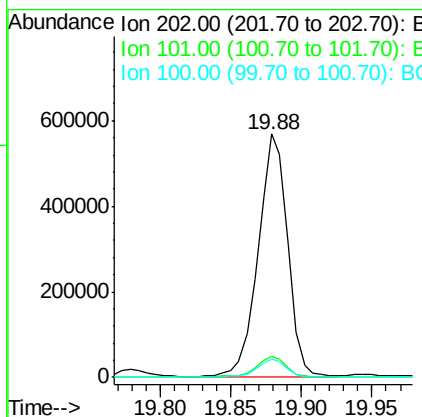
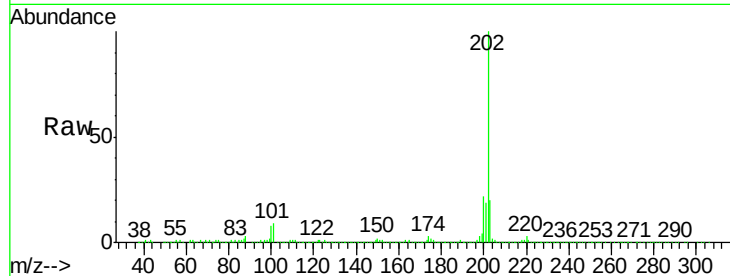




#80
 Pyrene
 Concen: 88.94 ng/ul
 RT: 19.88 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: BG020419.D
 Acq: 22 Dec 2015 21:31

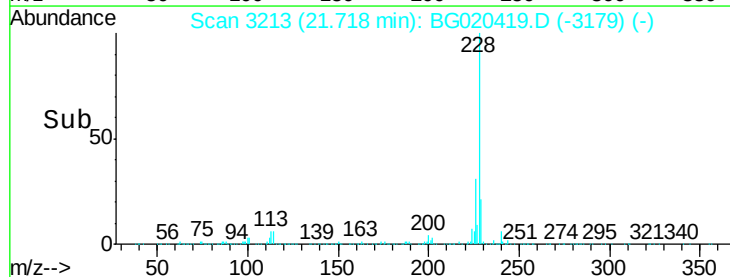
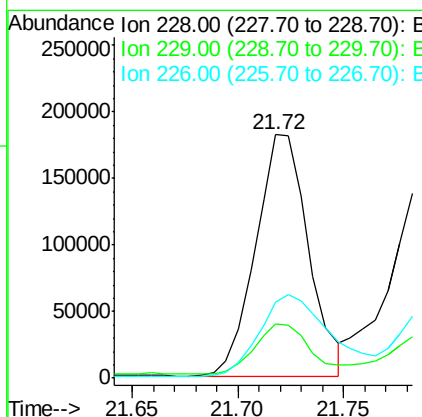
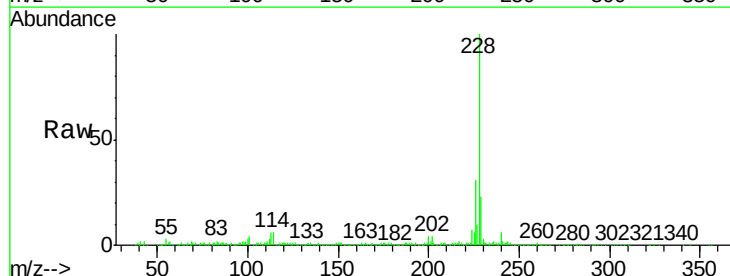
Instrument :
 BNA_G
 ClientSampleId :
 G9BN9ME

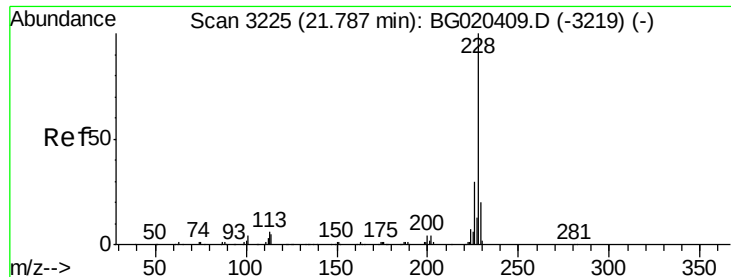
Tgt Ion:	202	Resp:	829760
Ion	Ratio	Lower	Upper
202	100		
101	8.6	7.0	10.4
100	7.6	6.4	9.6



#83
 Benzo(a)anthracene
 Concen: 35.19 ng/ul
 RT: 21.72 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: BG020419.D
 Acq: 22 Dec 2015 21:31

Tgt Ion:	228	Resp:	316547
Ion	Ratio	Lower	Upper
228	100		
229	22.5	15.8	23.8
226	31.1	21.8	32.6





#85

Chrysene

Concen: 32.89 ng/ul

RT: 21.79 min Scan# 3225

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

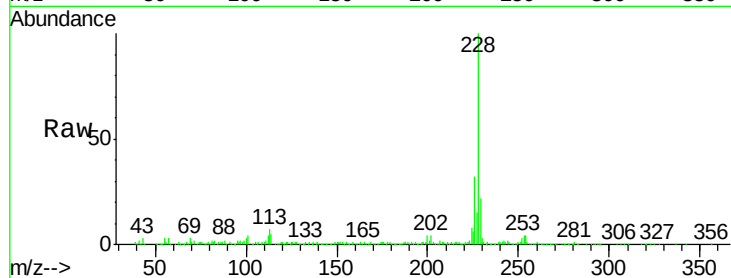
Tgt Ion:228 Resp: 278634

Ion Ratio Lower Upper

228 100

226 31.9 23.9 35.9

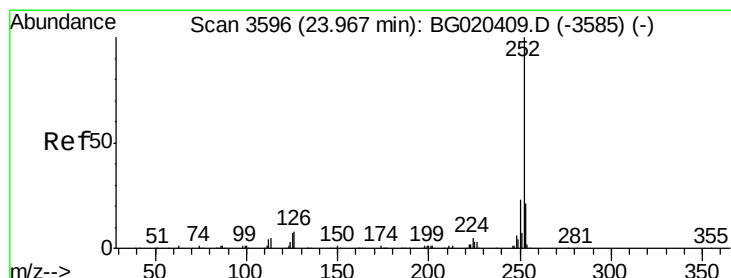
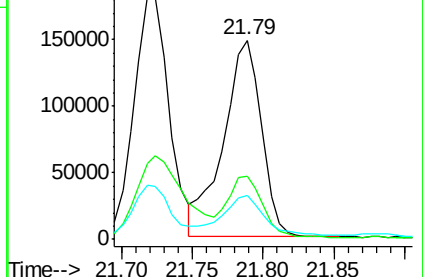
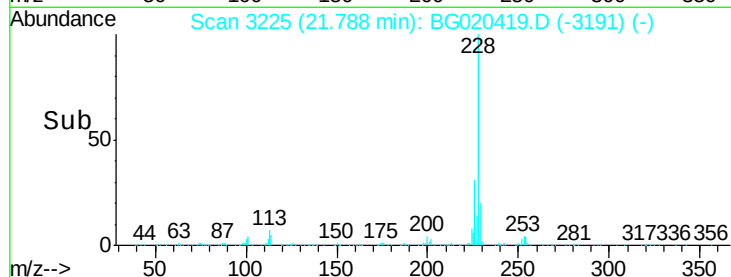
229 22.1 15.6 23.4



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



#88

Benzo(b)fluoranthene

Concen: 18.74 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. 0.00 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

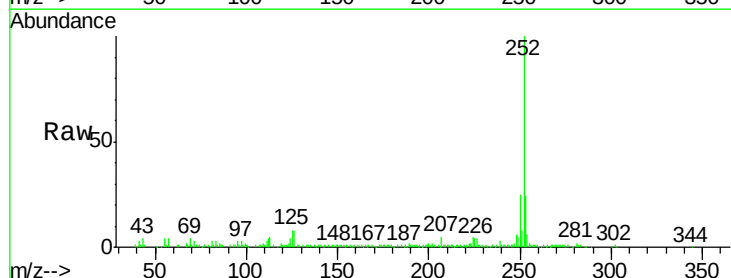
Tgt Ion:252 Resp: 167025

Ion Ratio Lower Upper

252 100

253 24.1 16.7 25.1

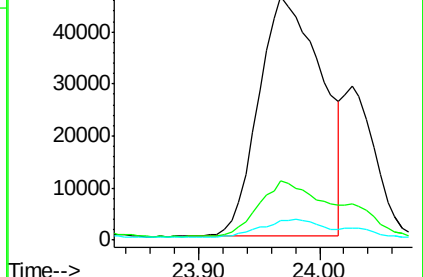
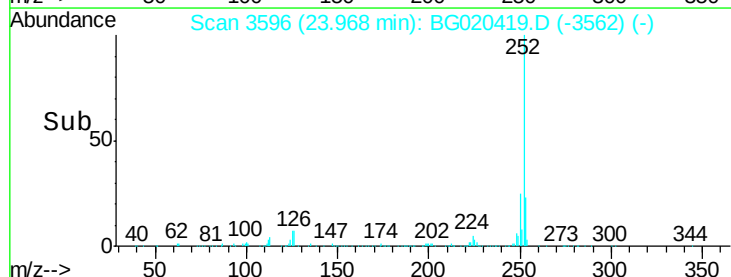
125 8.0 6.2 9.2

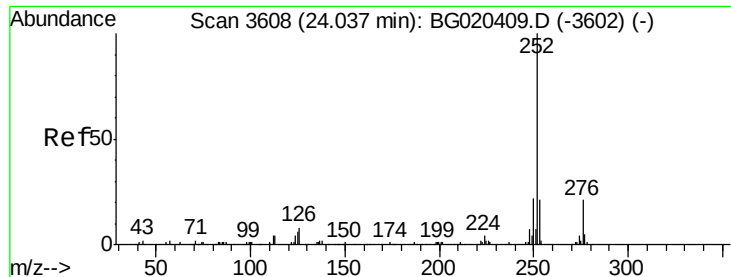


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

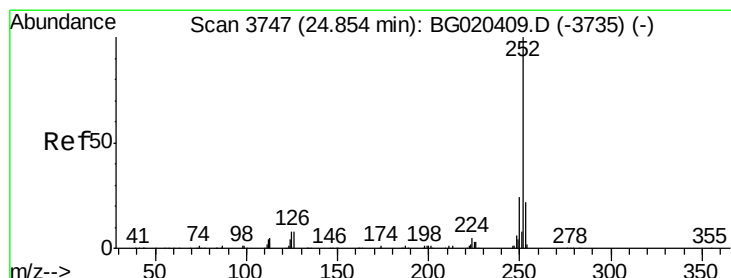
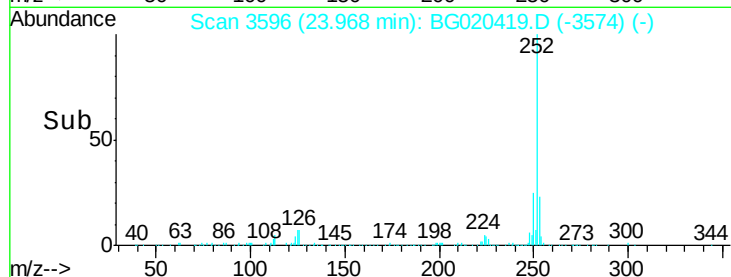
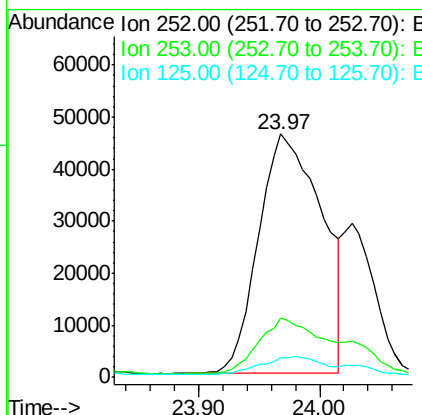
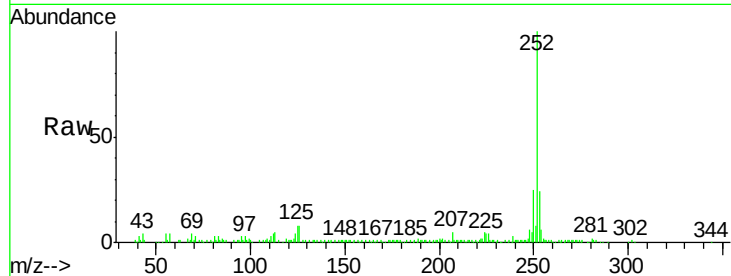




#89
Benzo(k)fluoranthene
Concen: 19.53 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. -0.07 min
Lab File: BG020419.D
Acq: 22 Dec 2015 21:31

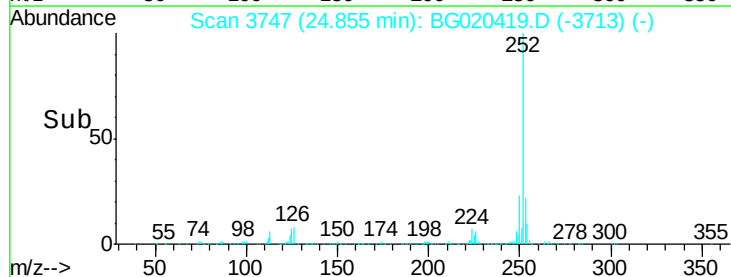
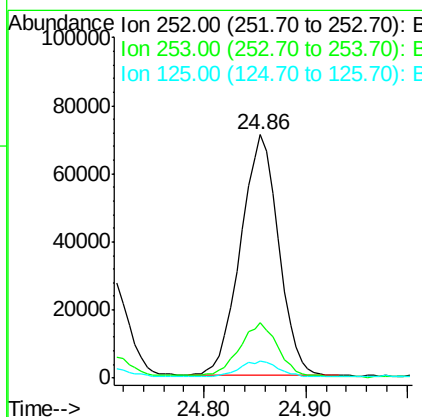
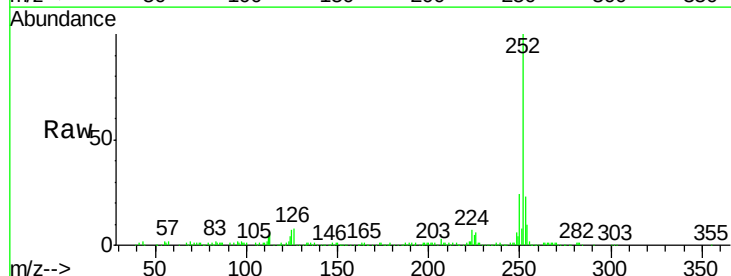
Instrument :
BNA_G
ClientSampleId :
G9BN9ME

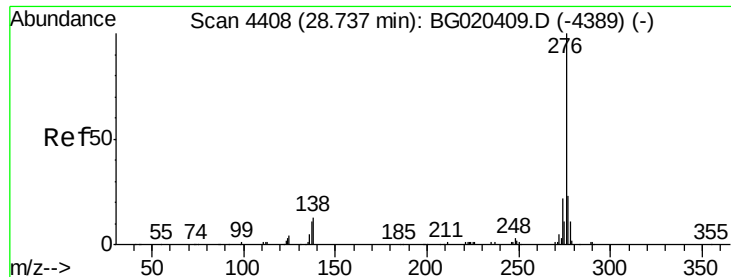
Tgt Ion:252 Resp: 167025
Ion Ratio Lower Upper
252 100
253 24.1 17.9 26.9
125 8.0 5.8 8.6



#91
Benzo(a)pyrene
Concen: 21.74 ng/ul
RT: 24.86 min Scan# 3747
Delta R.T. 0.00 min
Lab File: BG020419.D
Acq: 22 Dec 2015 21:31

Tgt Ion:252 Resp: 183705
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.4
125 7.1 6.2 9.4





#92

Indeno(1,2,3-cd)pyrene

Concen: 7.02 ng/ul

RT: 28.72 min Scan# 4405

Delta R.T. -0.02 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME

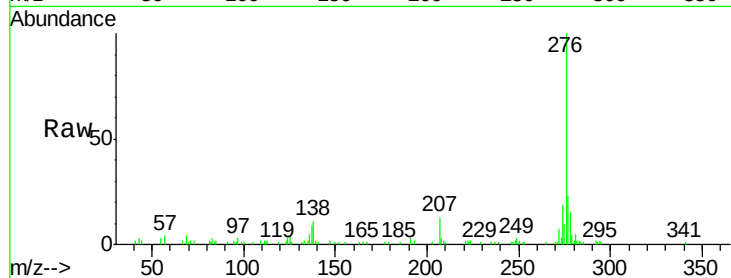
Tgt Ion:276 Resp: 70619

Ion Ratio Lower Upper

276 100

138 11.3 11.4 17.0#

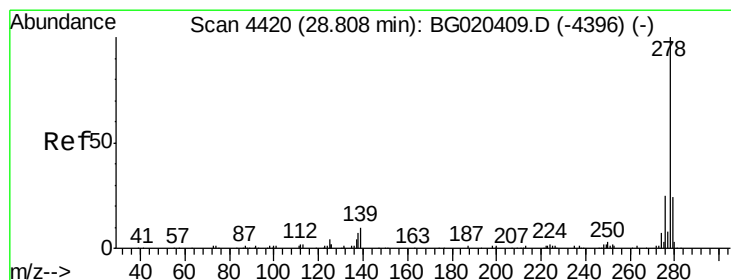
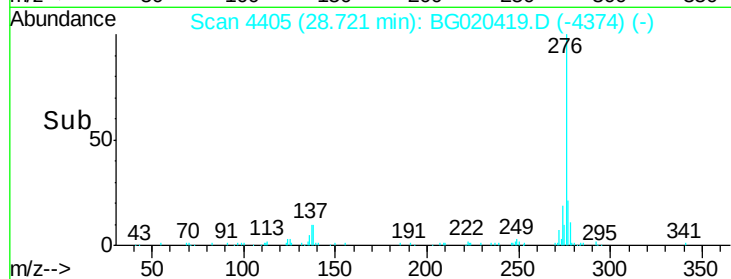
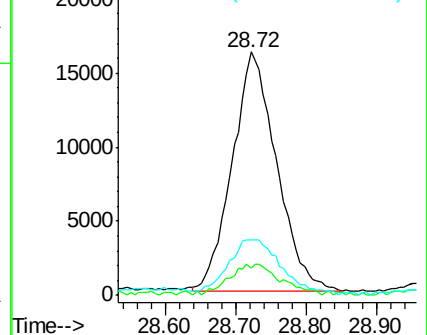
277 22.8 17.4 26.0



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: 1.35 ng/ul

RT: 28.76 min Scan# 4411

Delta R.T. -0.05 min

Lab File: BG020419.D

Acq: 22 Dec 2015 21:31

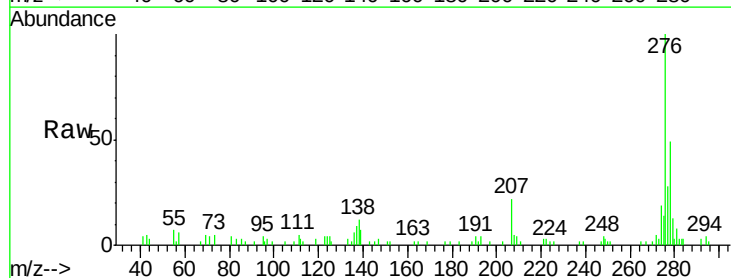
Tgt Ion:278 Resp: 11293

Ion Ratio Lower Upper

278 100

139 14.3 9.4 14.2#

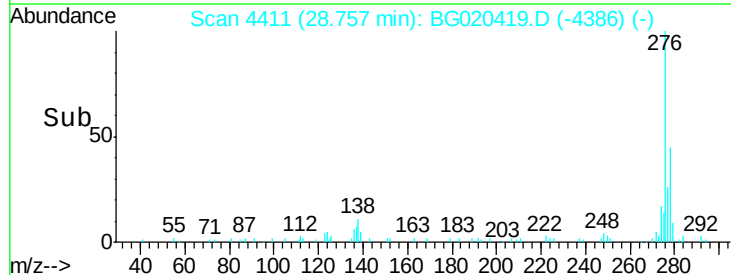
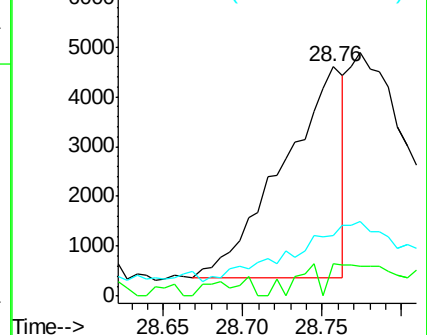
279 26.3 19.4 29.0

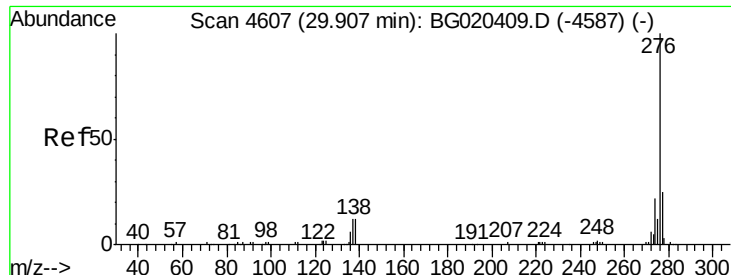


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 7.88 ng/ul

RT: 29.88 min Scan# 4603

Delta R.T. -0.02 min

Lab File: BG020419.D

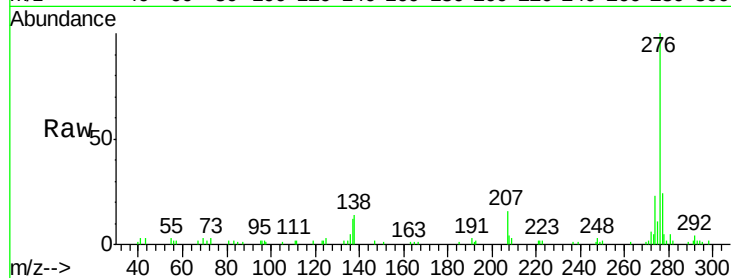
Acq: 22 Dec 2015 21:31

Instrument :

BNA_G

ClientSampleId :

G9BN9ME



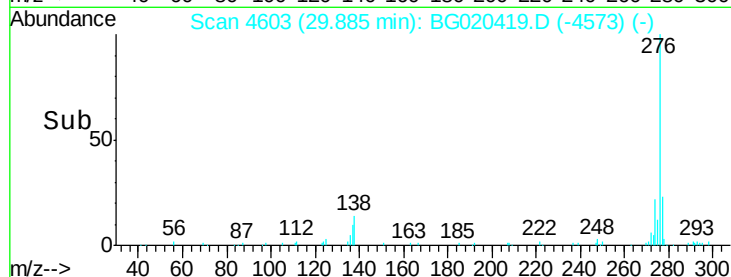
Tgt Ion: 276 Resp: 64969

Ion Ratio Lower Upper

276 100

138 13.7 10.8 16.2

277 24.4 19.9 29.9



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

