

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG112316\
 Data File : BG024928.D
 Acq On : 24 Nov 2016 4:56
 Operator : UM/SJ
 Sample : H5701-11MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4WD7MSD

Quant Time: Nov 24 05:57:22 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG112316.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Nov 24 01:29:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.25	152	95138	20.00	ng/ul	0.00
18) Naphthalene-d8	11.08	136	420615	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.87	164	351398	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	780486	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	969736	20.00	ng/ul	0.00
83) Perylene-d12	25.32	264	1001461	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.72	96	95	0.05	ng/uL	0.11
5) Phenol-d5	7.39	99	201429	22.61	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.56	67	125151	23.22	ng/ul	0.00
9) 2-Chlorophenol-d4	7.78	132	137050	22.11	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	150191	19.84	ng/ul	0.00
19) Nitrobenzene-d5	9.43	128	72435	21.85	ng/ul	0.00
22) 2-Nitrophenol-d4	10.15	143	84830	21.91	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	163817	20.96	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	159798	18.50	ng/ul	0.00
43) Dimethylphthalate-d6	14.26	166	573767	22.21	ng/ul	0.00
46) Acenaphthylene-d8	14.57	160	638206	22.45	ng/ul	0.00
51) 4-Nitrophenol-d4	15.05	143	81879	18.01	ng/ul	0.00
57) Fluorene-d10	15.85	176	532691	22.30	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	88199	15.92	ng/ul	0.00
70) Anthracene-d10	17.71	188	789444	22.23	ng/ul	0.00
76) Pyrene-d10	19.98	212	948902	21.97	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.08	264	984967	22.12	ng/ul	0.00

Target Compounds

					Qvalue	
6) Phenol	7.42	94	284327	31.36	ng/ul	96
10) 2-Chlorophenol	7.81	128	160732	26.61	ng/ul	91
15) N-Nitroso-di-n-propylamine	9.04	70	183022	28.11	ng/ul#	86
28) Naphthalene	11.13	128	31745	1.55	ng/ul#	88
33) 4-Chloro-3-methylphenol	12.32	107	239772	25.20	ng/ul	99
44) Dimethylphthalate	14.31	163	92643	3.66	ng/ul#	93
49) Acenaphthene	14.93	153	553577	29.28	ng/ul	98
53) Dibenzofuran	15.26	168	33762	1.15	ng/ul	93
54) 2,4-Dinitrotoluene	15.23	165	223162	27.35	ng/ul#	86
56) Diethylphthalate	15.65	149	177642	6.86	ng/ul	96
58) Fluorene	15.91	166	42108	1.75	ng/ul	94
68) Pentachlorophenol	17.25	266	176948	28.01	ng/ul	91
69) Phenanthrene	17.65	178	543279	13.53	ng/ul	98
71) Anthracene	17.74	178	148242	3.59	ng/ul	95
72) Carbazole	18.01	167	59544	1.74	ng/ul	96
74) Fluoranthene	19.64	202	721112	15.57	ng/ul	100
77) Pyrene	20.01	202	1846375	36.74	ng/ul	99
80) Benzo(a)anthracene	21.88	228	411488	7.72	ng/ul	99
82) Chrysene	21.95	228	354359	7.05	ng/ul	96
85) Benzo(b)fluoranthene	24.23	252	415630	7.78	ng/ul#	99
86) Benzo(k)fluoranthene	24.29	252	146868	2.87	ng/ul#	95
88) Benzo(a)pyrene	25.16	252	310975	5.99	ng/ul	98
89) Indeno(1,2,3-cd)pyrene	29.24	276	199710	3.14	ng/ul	94

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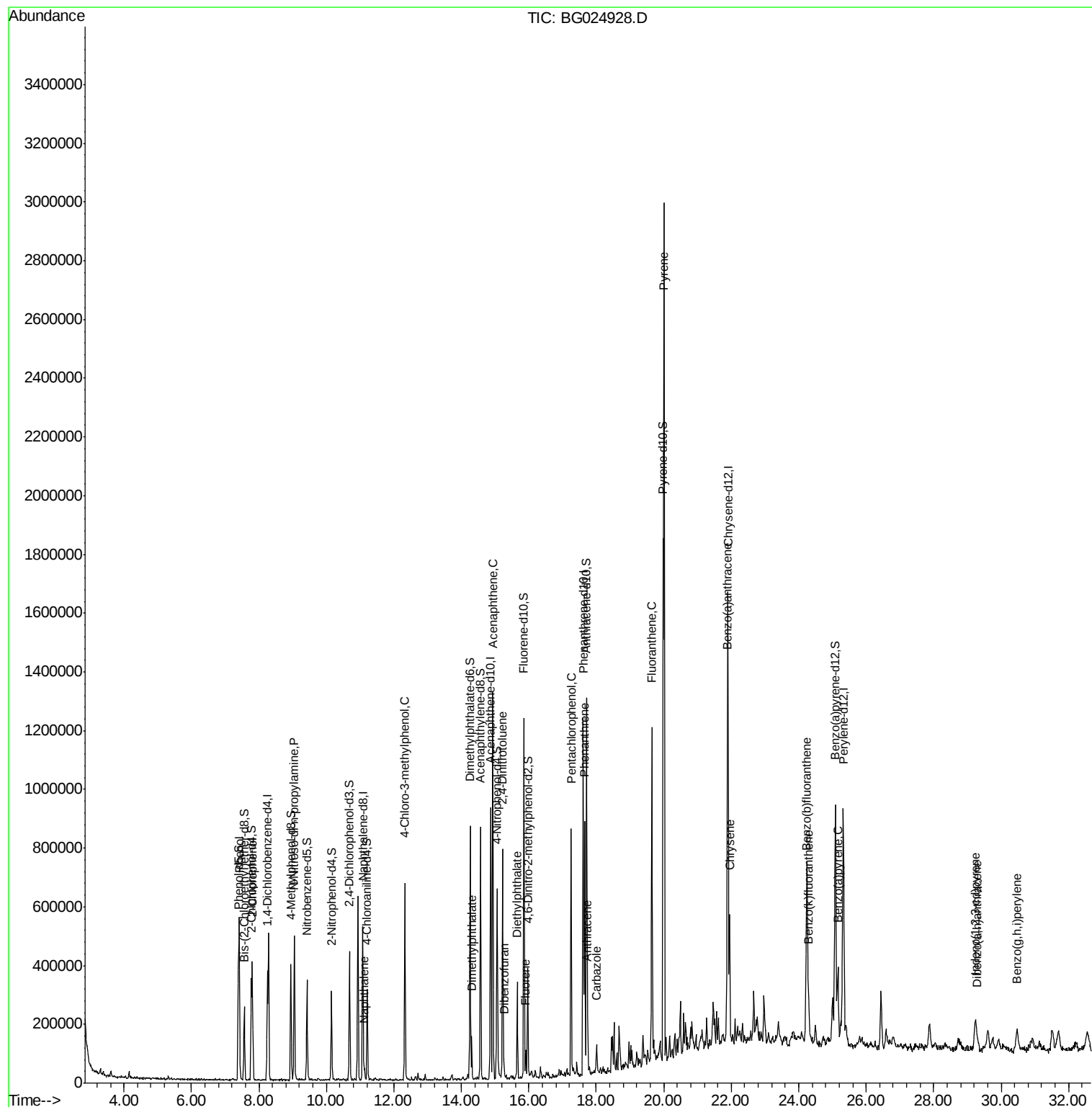
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	29.29	278	60370	1.14	ng/ul#	90
91) Benzo(g,h,i)perylene	30.47	276	156362	2.98	ng/ul	96

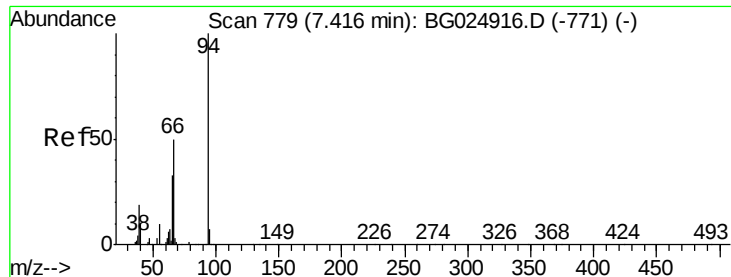
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 31.36 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

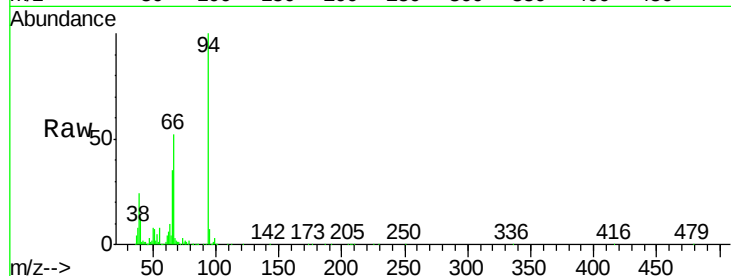
Tgt Ion: 94 Resp: 284327

Ion Ratio Lower Upper

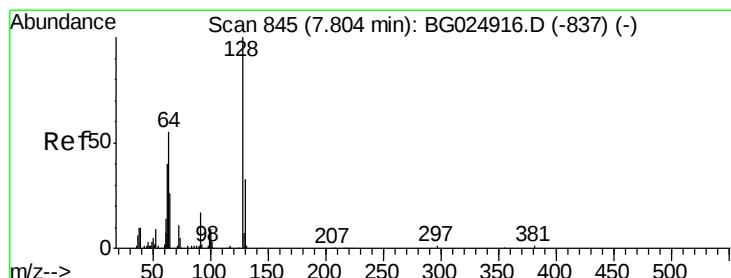
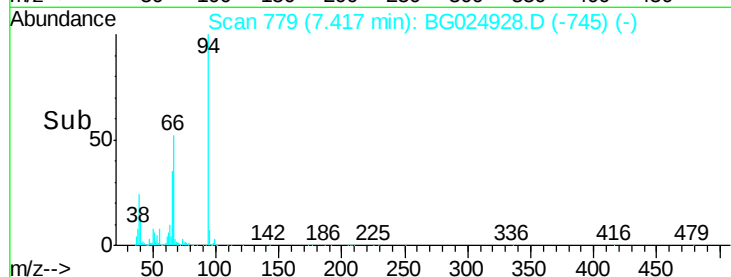
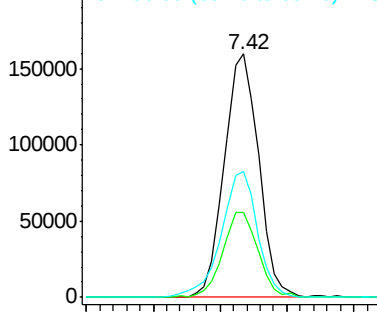
94 100

65 35.1 26.8 40.2

66 51.9 44.4 66.6



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC



#10

2-Chlorophenol

Concen: 26.61 ng/ul

RT: 7.81 min Scan# 846

Delta R.T. 0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

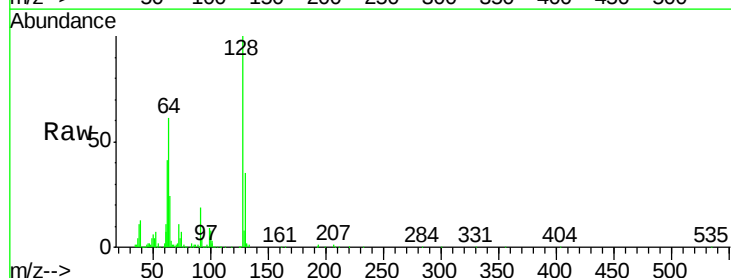
Tgt Ion: 128 Resp: 160732

Ion Ratio Lower Upper

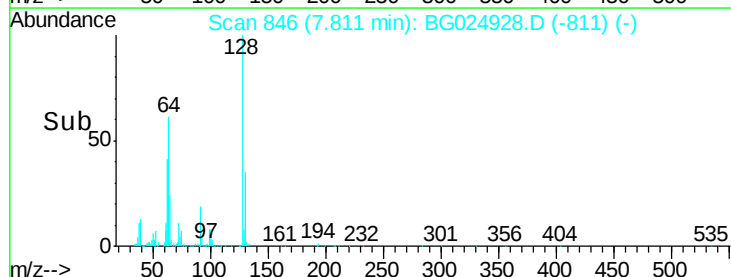
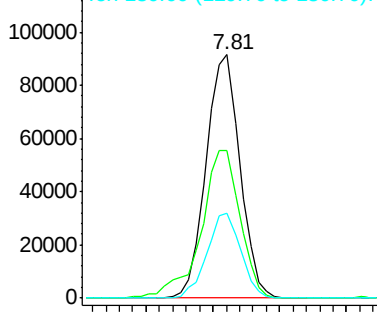
128 100

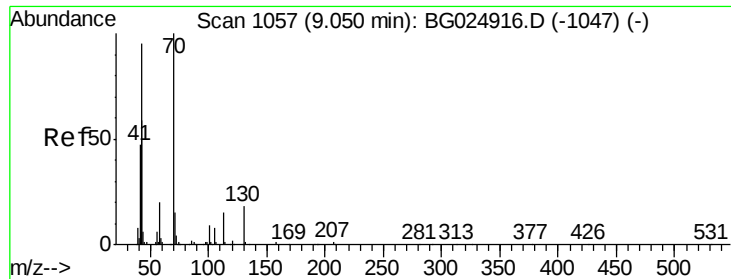
64 60.7 56.3 84.5

130 34.8 26.7 40.1



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 130.00 (129.70 to 130.70): E

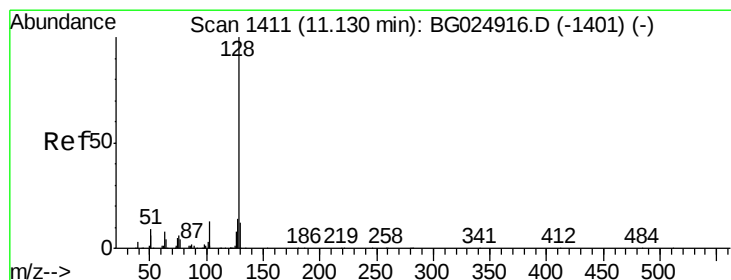
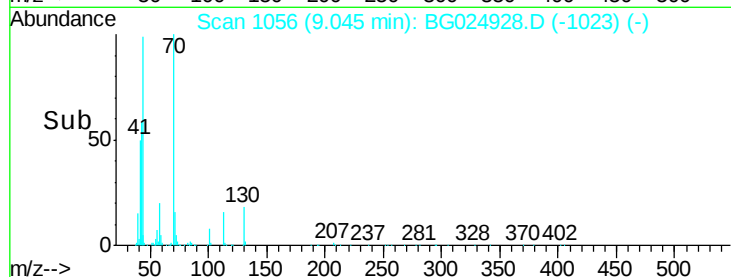
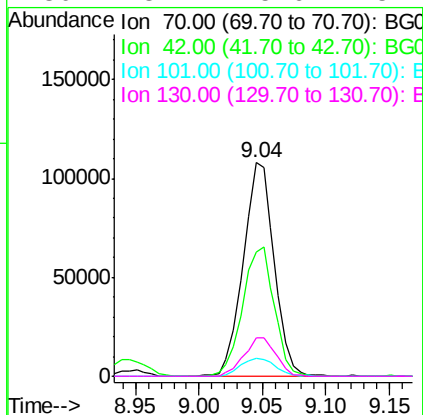
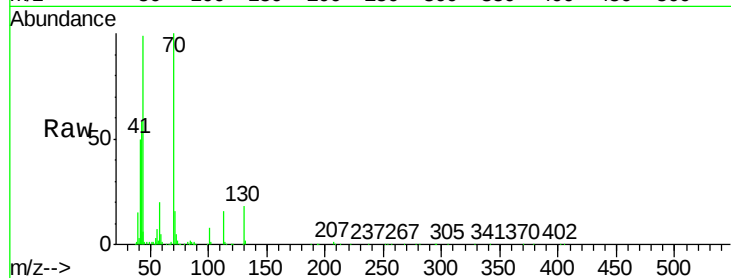




#15
N-Nitroso-di-n-propylamine
Concen: 28.11 ng/ul
RT: 9.04 min Scan# 1056
Delta R.T. -0.01 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

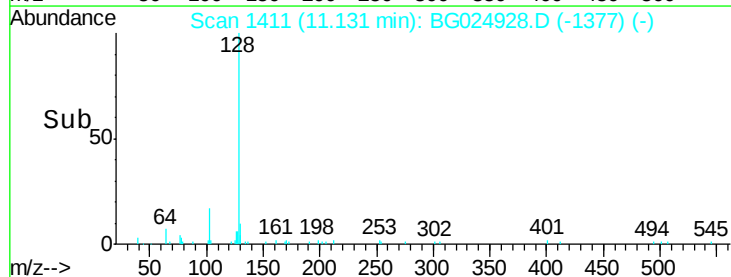
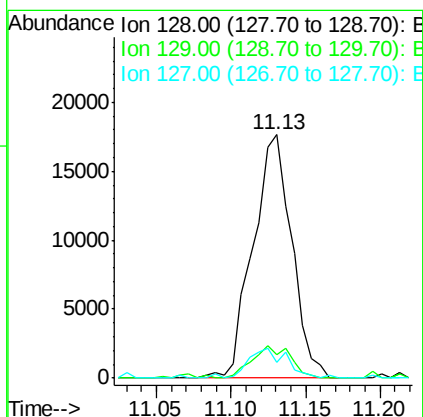
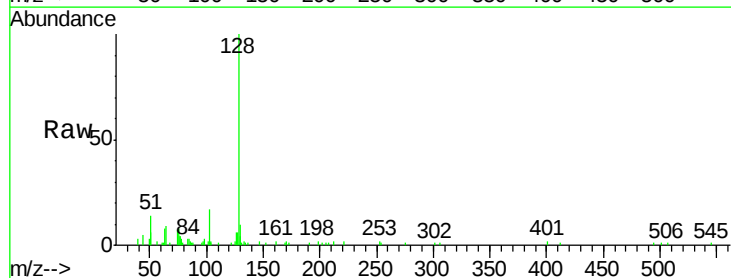
Instrument :
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ClientSampleId :
A4WD7MSD

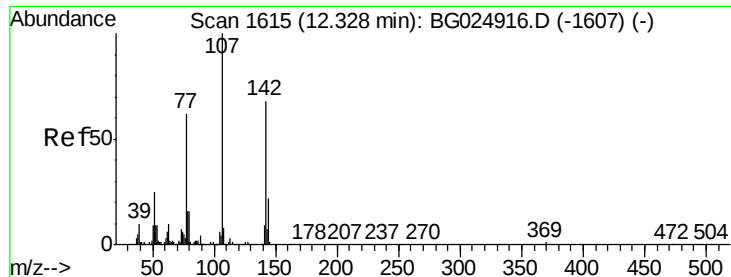
Tgt Ion:	70	Resp:	183022
Ion	Ratio	Lower	Upper
70	100		
42	58.4	59.0	88.6#
101	8.3	6.6	9.8
130	18.1	15.6	23.4



#28
Naphthalene
Concen: 1.55 ng/ul
RT: 11.13 min Scan# 1411
Delta R.T. 0.00 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

Tgt Ion:	128	Resp:	31745
Ion	Ratio	Lower	Upper
128	100		
129	9.5	9.4	14.2
127	6.2	10.3	15.5#

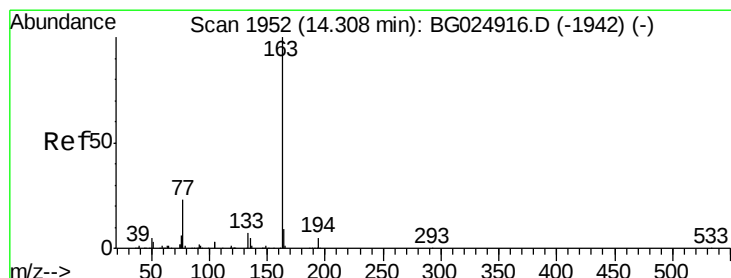
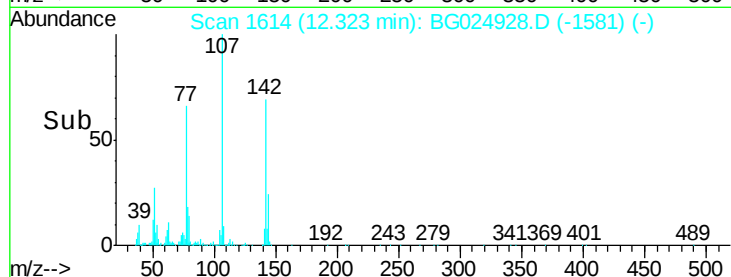
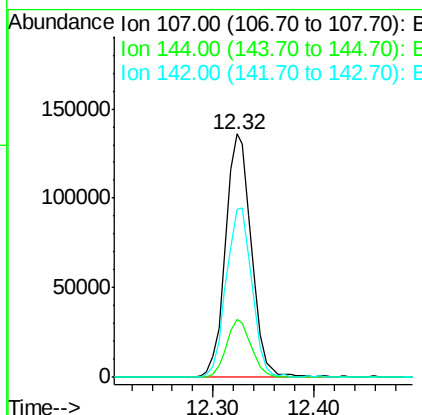
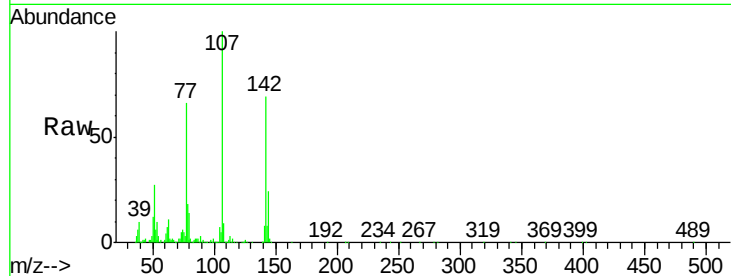




#33
 4-Chloro-3-methylphenol
 Concen: 25.20 ng/ul
 RT: 12.32 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BG024928.D
 Acq: 24 Nov 2016 4:56

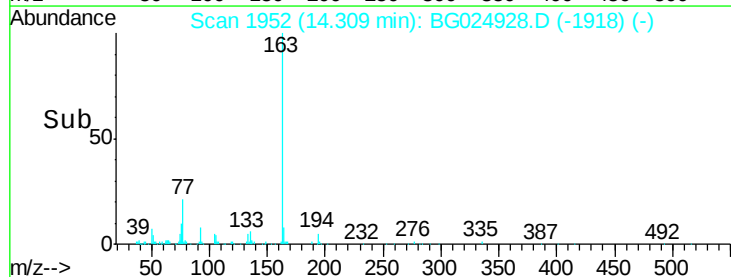
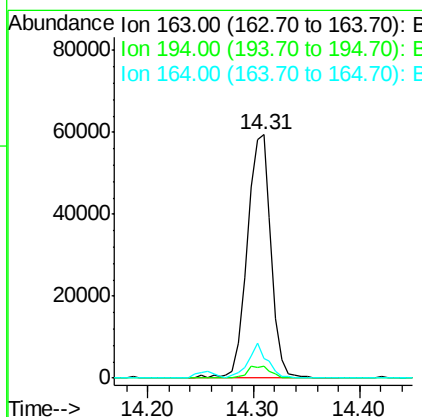
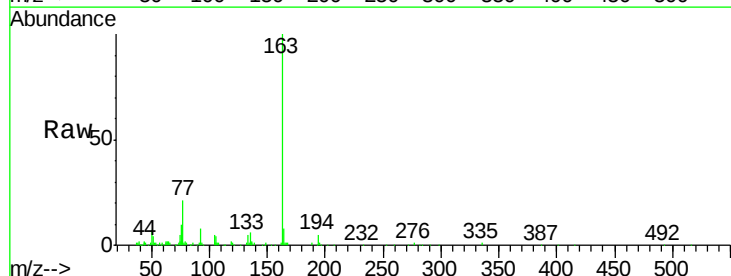
Instrument :
 BNA_G
 ClientSampleId :
 A4WD7MSD

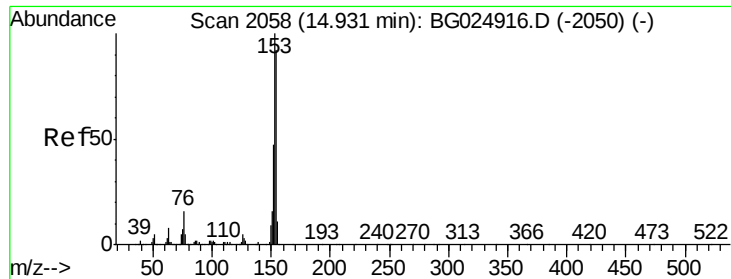
Tgt Ion:107 Resp: 239772
 Ion Ratio Lower Upper
 107 100
 144 23.9 18.2 27.4
 142 69.2 55.0 82.4



#44
 Dimethylphthalate
 Concen: 3.66 ng/ul
 RT: 14.31 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: BG024928.D
 Acq: 24 Nov 2016 4:56

Tgt Ion:163 Resp: 92643
 Ion Ratio Lower Upper
 163 100
 194 5.0 3.4 5.0
 164 7.9 9.0 13.4#





#49

Acenaphthene

Concen: 29.28 ng/ul

RT: 14.93 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

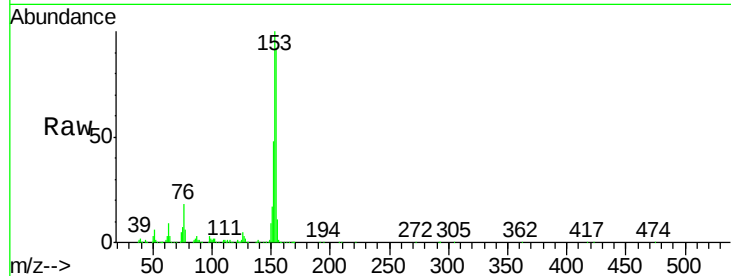
Tgt Ion:153 Resp: 553577

Ion Ratio Lower Upper

153 100

152 48.2 36.5 54.7

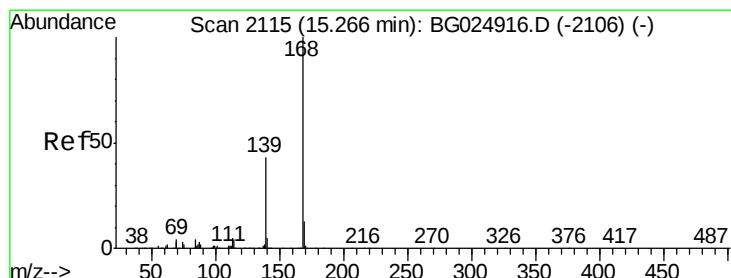
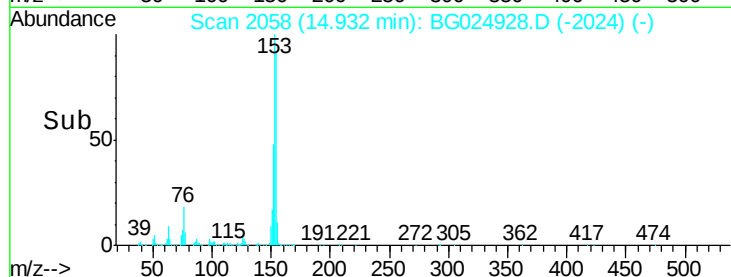
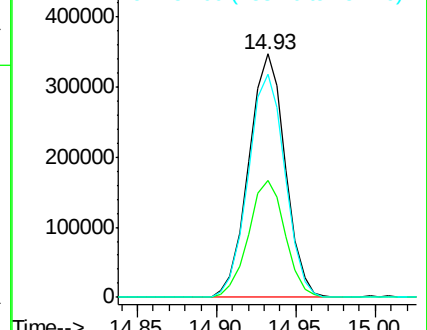
154 91.9 72.3 108.5



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



#53

Dibenzofuran

Concen: 1.15 ng/ul

RT: 15.26 min Scan# 2114

Delta R.T. -0.01 min

Lab File: BG024928.D

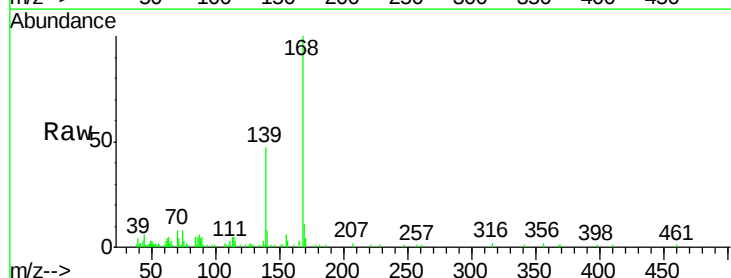
Acq: 24 Nov 2016 4:56

Tgt Ion:168 Resp: 33762

Ion Ratio Lower Upper

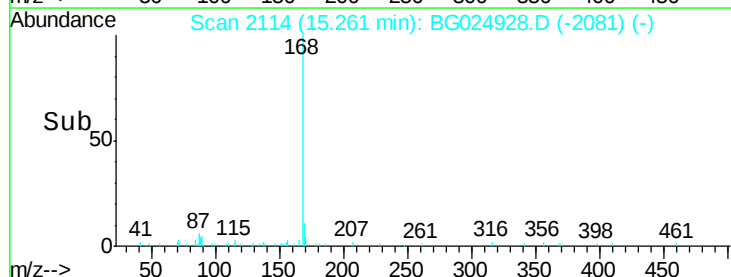
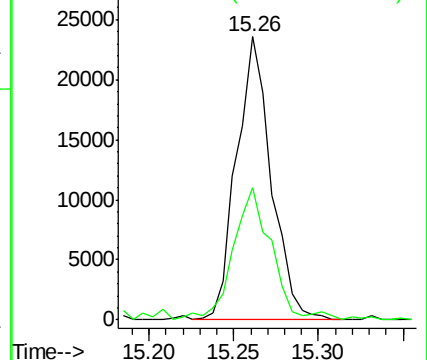
168 100

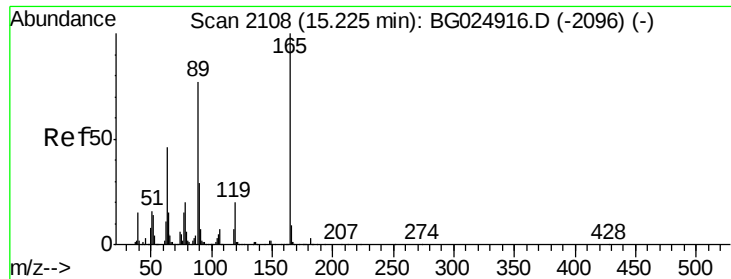
139 47.0 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

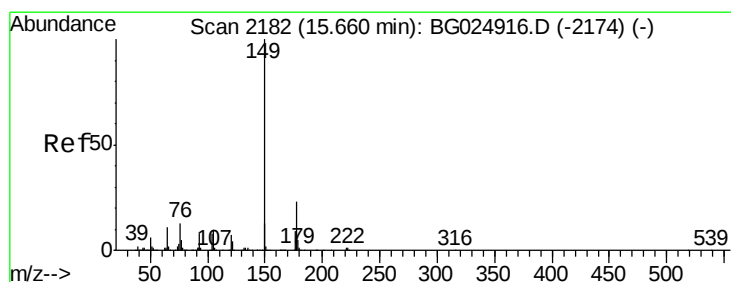
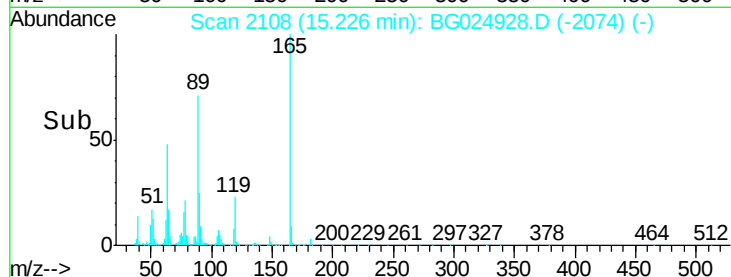
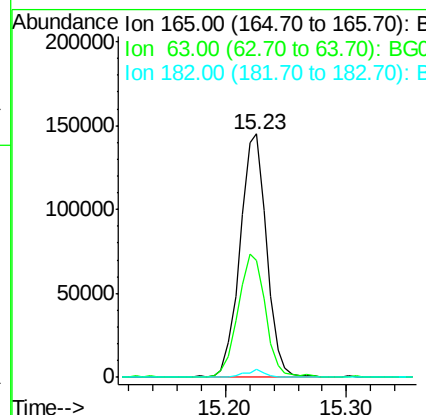
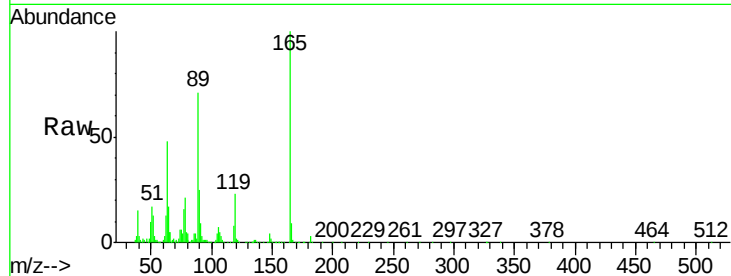




#54
2,4-Dinitrotoluene
Concen: 27.35 ng/ul
RT: 15.23 min Scan# 2108
Delta R.T. 0.00 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

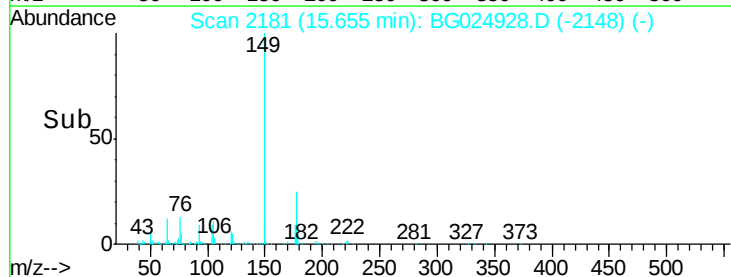
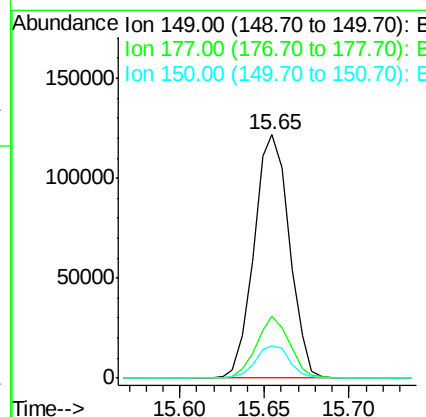
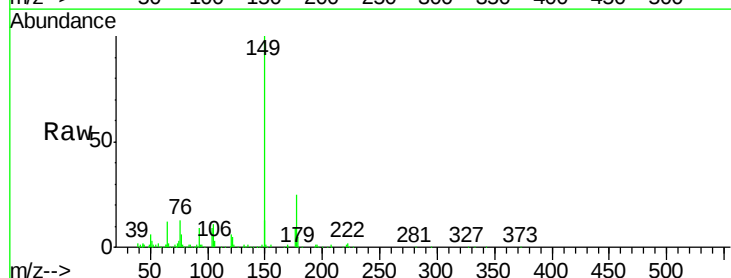
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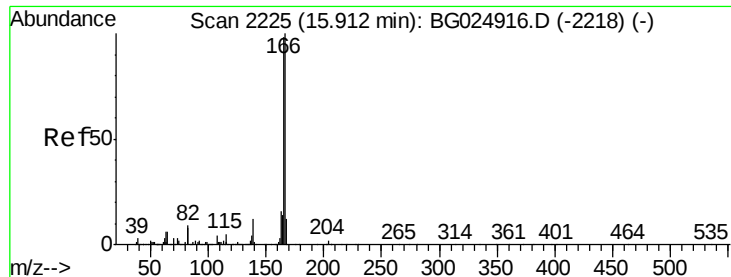
Tgt Ion:165 Resp: 223162
Ion Ratio Lower Upper
165 100
63 48.1 46.8 70.2
182 3.3 1.8 2.6#



#56
Diethylphthalate
Concen: 6.86 ng/ul
RT: 15.65 min Scan# 2181
Delta R.T. -0.01 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

Tgt Ion:149 Resp: 177642
Ion Ratio Lower Upper
149 100
177 25.3 17.8 26.8
150 13.1 10.2 15.4





#58

Fluorene

Concen: 1.75 ng/ul

RT: 15.91 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

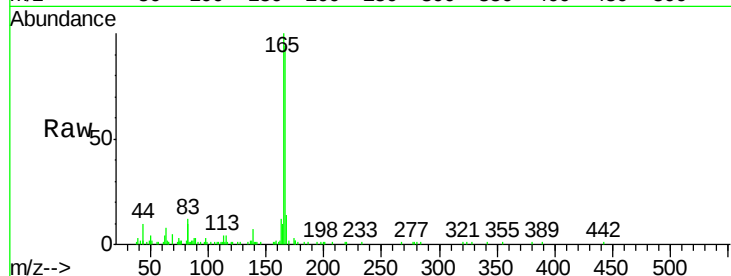
Tgt Ion:166 Resp: 42108

Ion Ratio Lower Upper

166 100

165 106.3 79.7 119.5

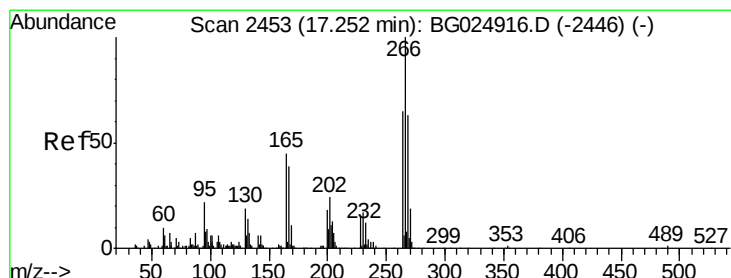
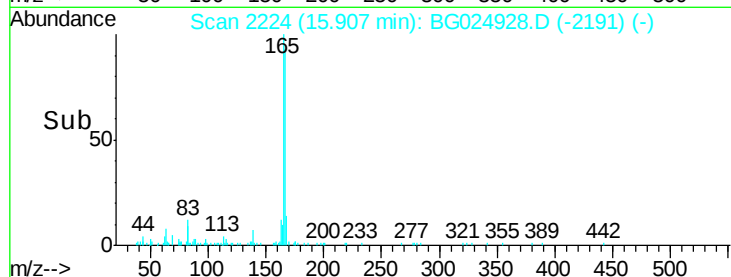
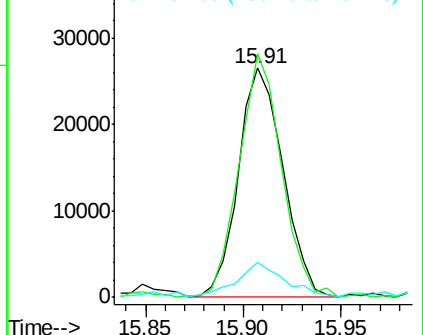
167 15.1 11.4 17.2



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



#68

Pentachlorophenol

Concen: 28.01 ng/ul

RT: 17.25 min Scan# 2453

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

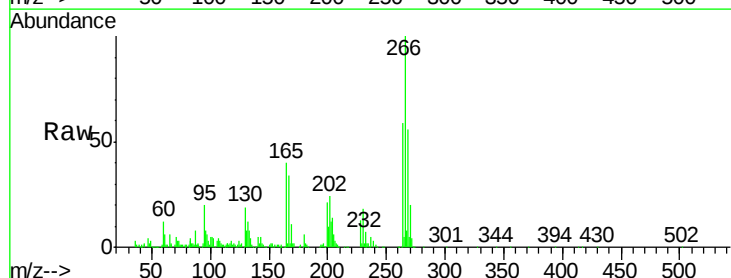
Tgt Ion:266 Resp: 176948

Ion Ratio Lower Upper

266 100

264 58.6 47.1 70.7

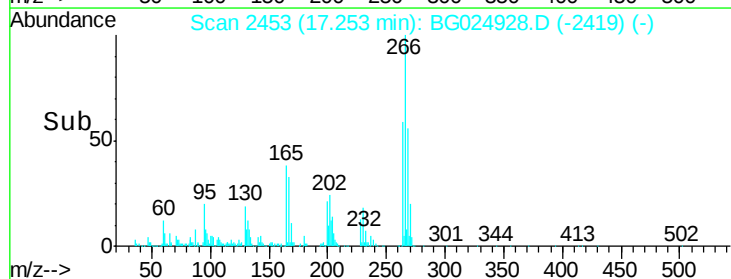
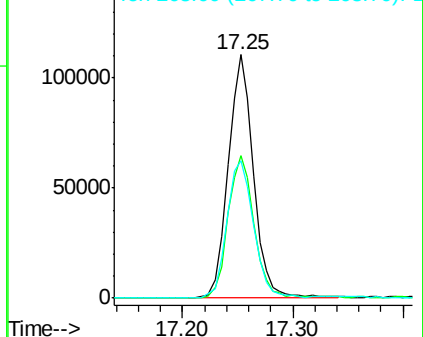
268 56.5 56.2 84.4

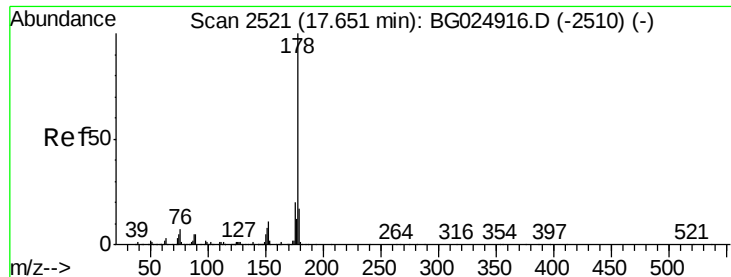


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 13.53 ng/ul

RT: 17.65 min Scan# 2521

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

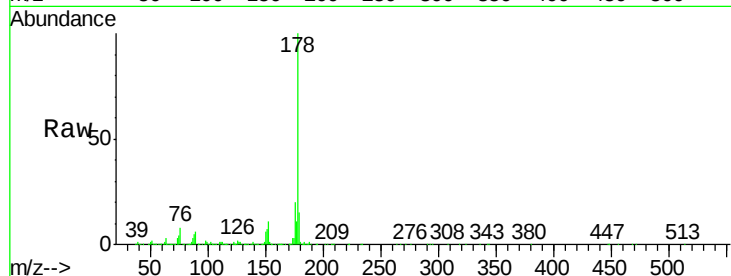
Tgt Ion:178 Resp: 543279

Ion Ratio Lower Upper

178 100

179 14.7 12.4 18.6

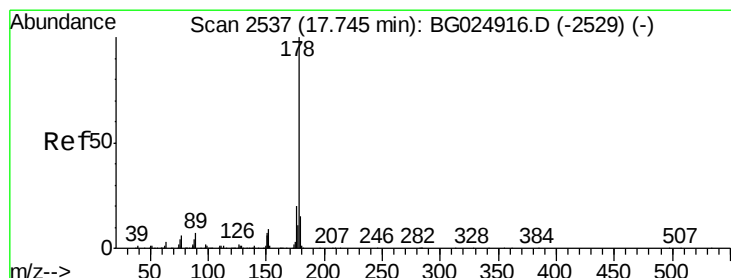
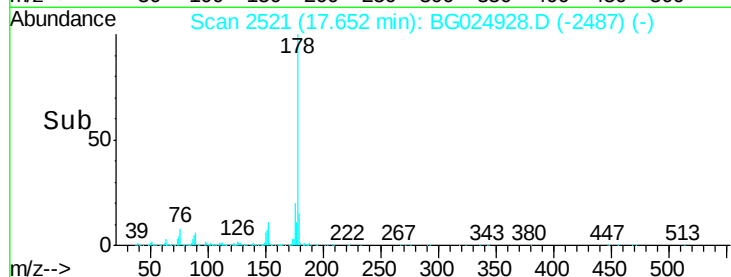
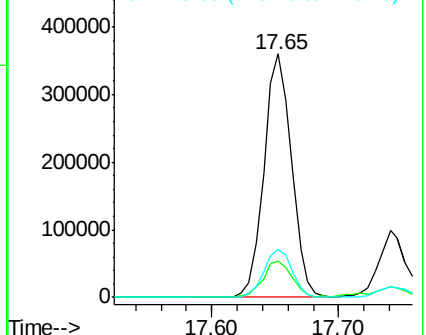
176 19.6 16.5 24.7



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



#71

Anthracene

Concen: 3.59 ng/ul

RT: 17.74 min Scan# 2536

Delta R.T. -0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

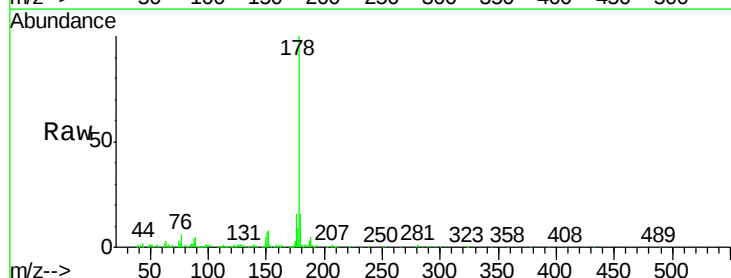
Tgt Ion:178 Resp: 148242

Ion Ratio Lower Upper

178 100

179 15.7 12.6 19.0

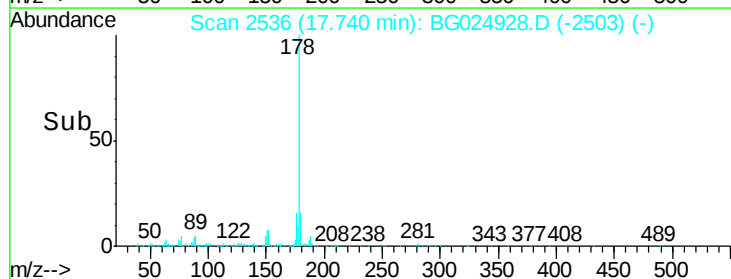
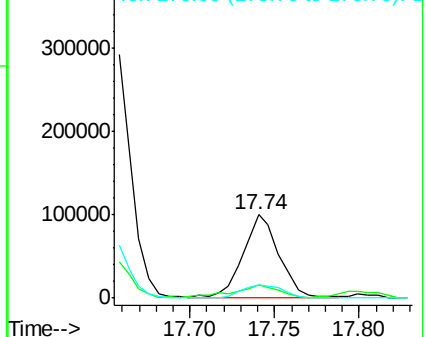
176 16.0 15.9 23.9

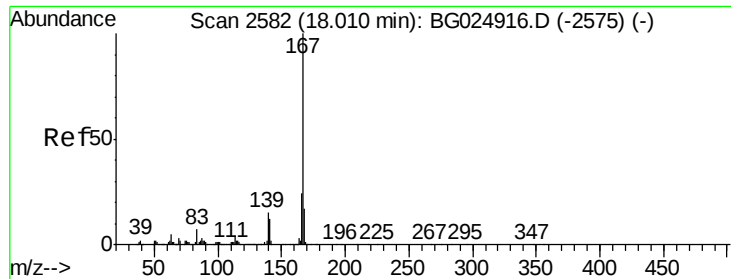


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.74 ng/ul

RT: 18.01 min Scan# 2582

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

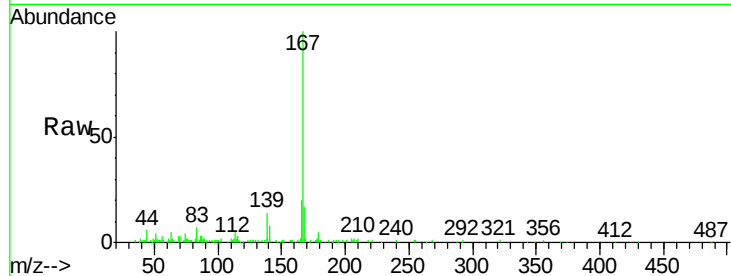
Tgt Ion:167 Resp: 59544

Ion Ratio Lower Upper

167 100

166 20.1 17.9 26.9

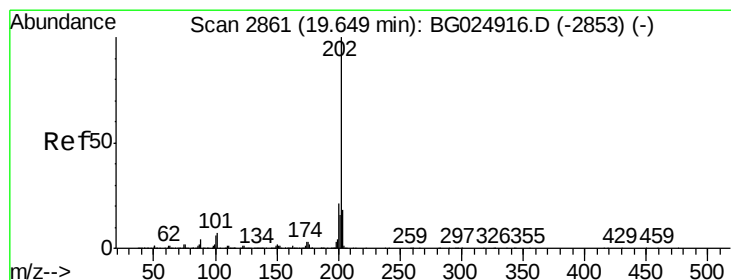
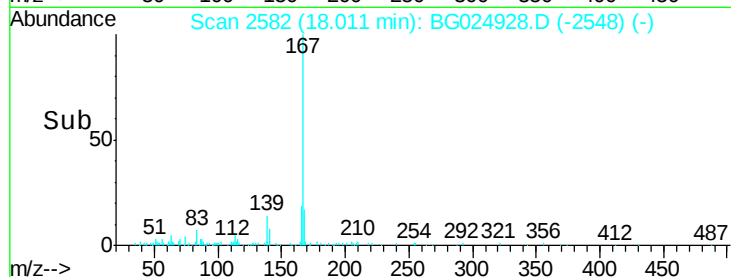
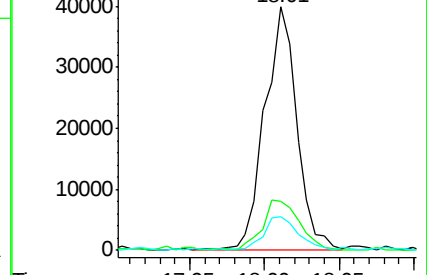
139 13.8 10.5 15.7



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

Fluoranthene

Concen: 15.57 ng/ul

RT: 19.64 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

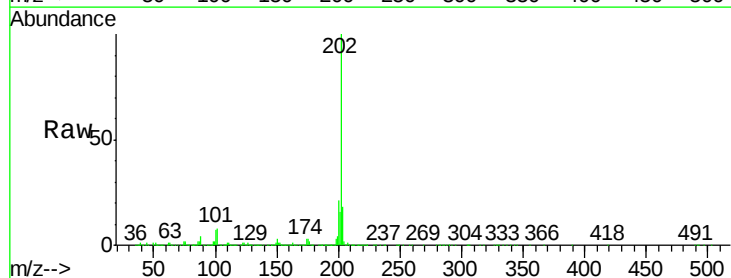
Tgt Ion:202 Resp: 721112

Ion Ratio Lower Upper

202 100

101 7.9 6.2 9.2

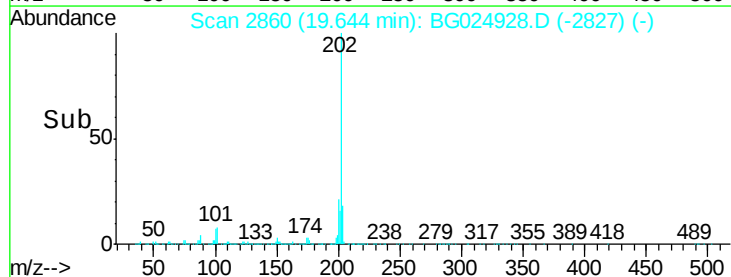
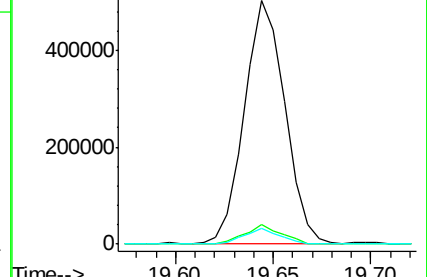
100 6.6 5.2 7.8

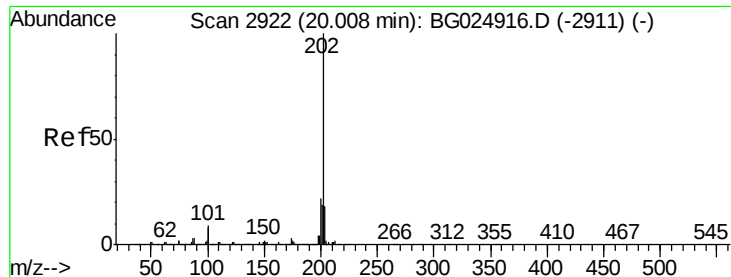


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#77

Pyrene

Concen: 36.74 ng/ul

RT: 20.01 min Scan# 2922

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

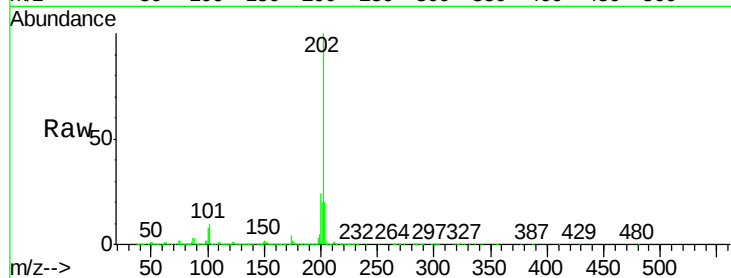
Tgt Ion:202 Resp: 1846375

Ion Ratio Lower Upper

202 100

101 9.5 6.9 10.3

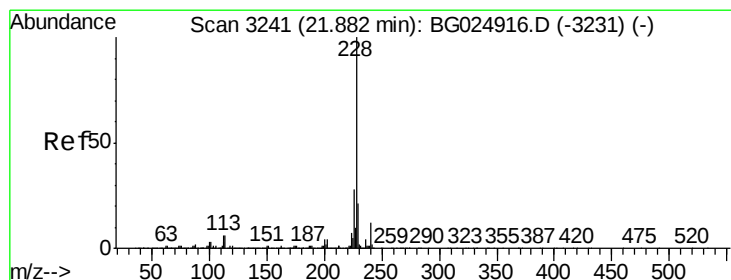
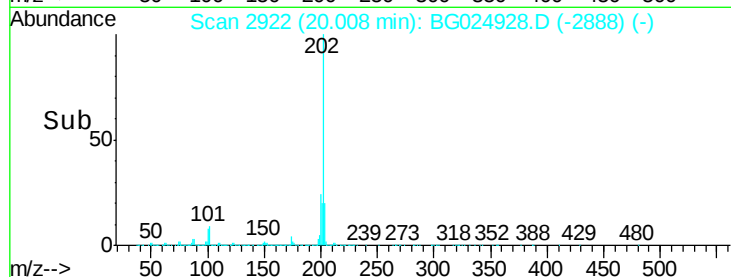
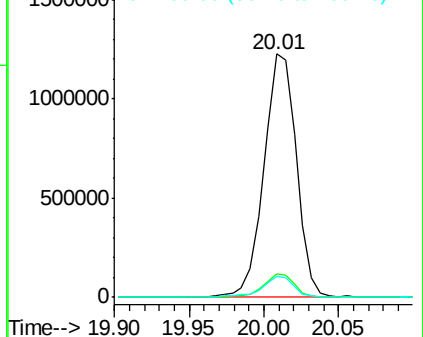
100 8.4 6.6 10.0



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): B



#80

Benzo(a)anthracene

Concen: 7.72 ng/ul

RT: 21.88 min Scan# 3241

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

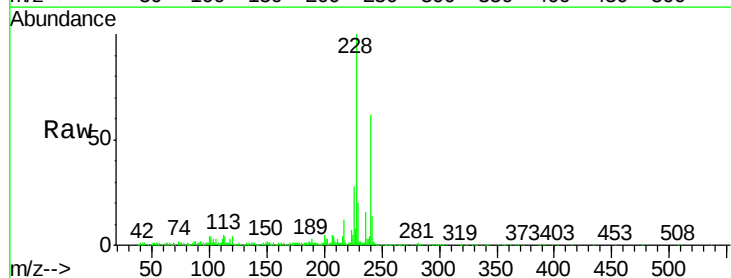
Tgt Ion:228 Resp: 411488

Ion Ratio Lower Upper

228 100

229 19.5 16.3 24.5

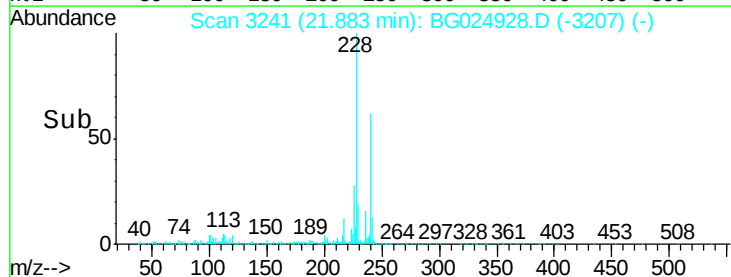
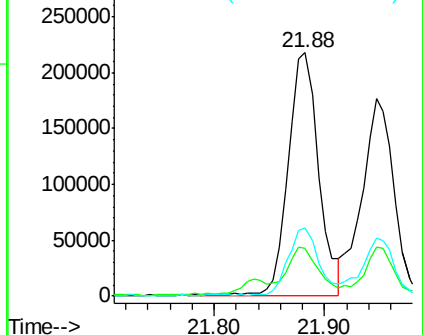
226 28.0 21.9 32.9

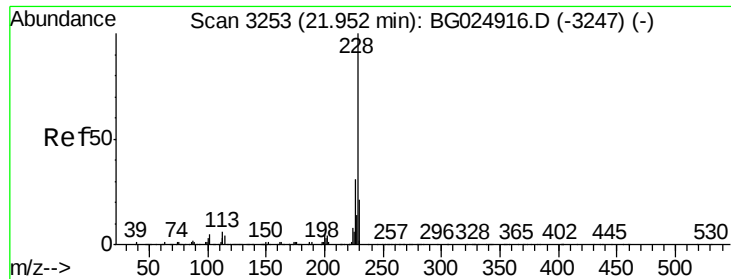


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 7.05 ng/ul

RT: 21.95 min Scan# 3252

Delta R.T. -0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

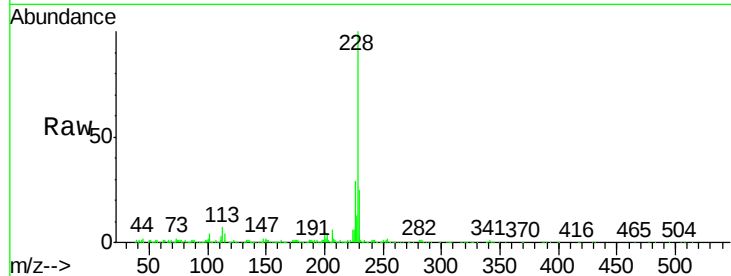
Tgt Ion: 228 Resp: 354359

Ion Ratio Lower Upper

228 100

226 29.3 24.0 36.0

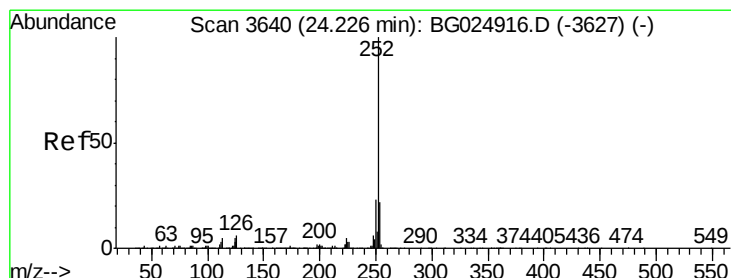
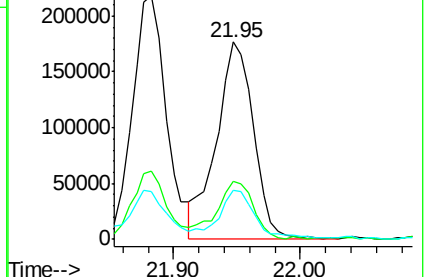
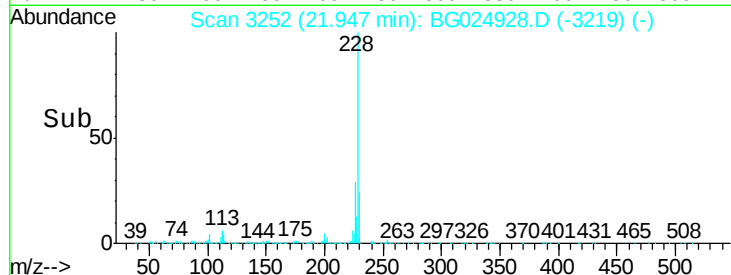
229 24.9 16.9 25.3



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



#85

Benzo(b)fluoranthene

Concen: 7.78 ng/ul

RT: 24.23 min Scan# 3640

Delta R.T. 0.00 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

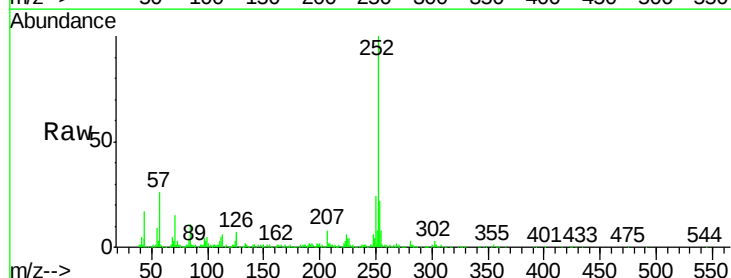
Tgt Ion: 252 Resp: 415630

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

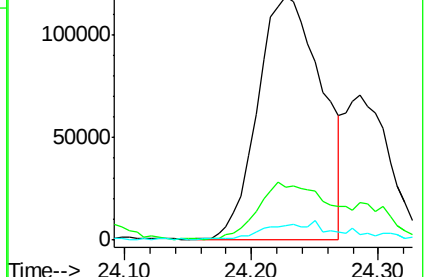
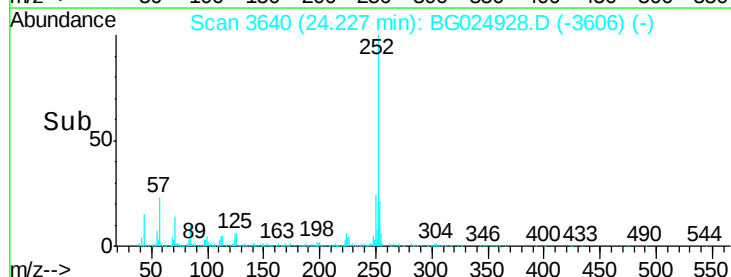
125 6.1 4.0 6.0#

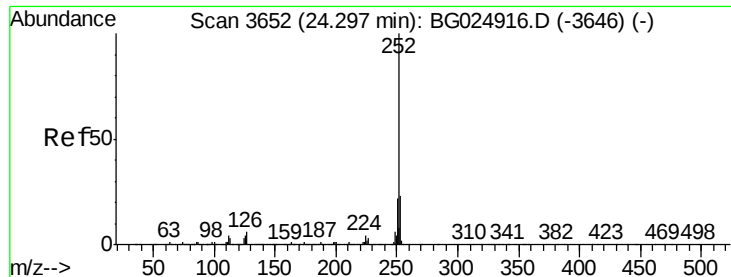


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

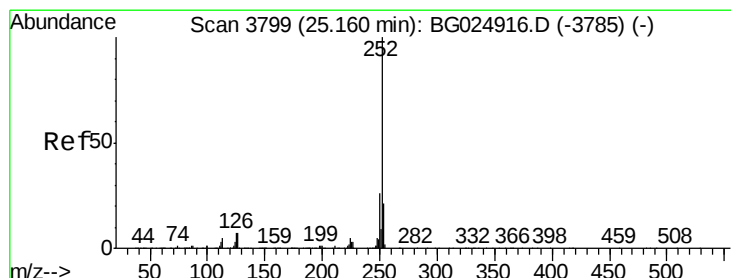
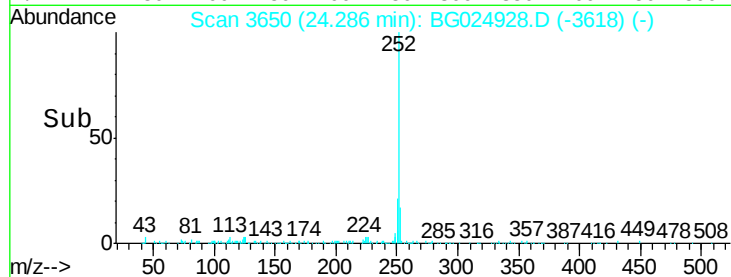
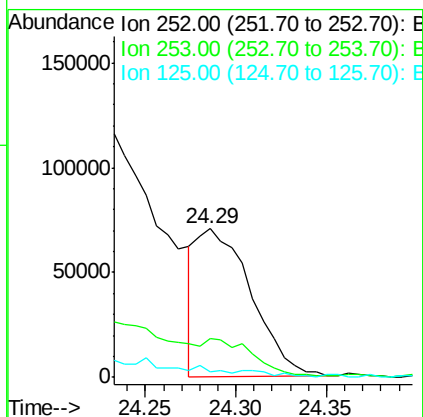
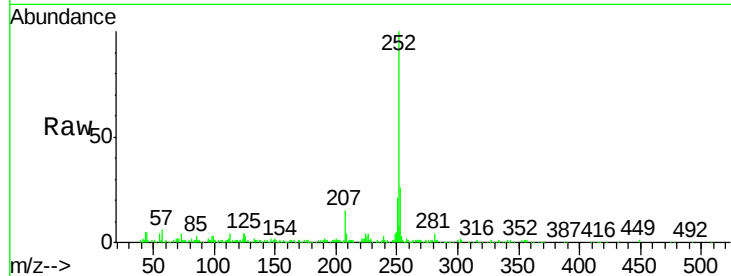




#86
Benzo(k)fluoranthene
Concen: 2.87 ng/ul
RT: 24.29 min Scan# 3650
Delta R.T. -0.01 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

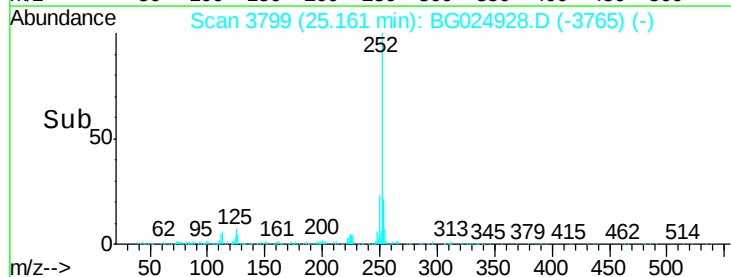
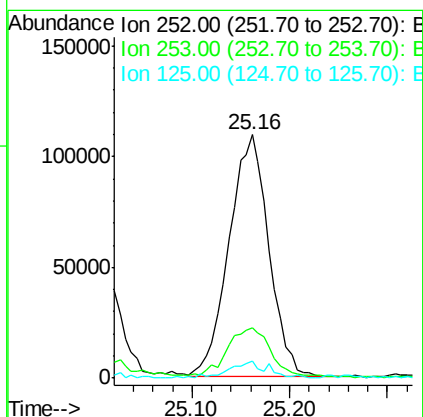
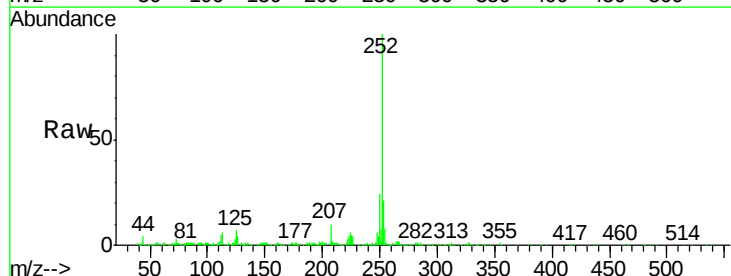
Instrument :
BNA_G
ClientSampleId :
A4WD7MSD

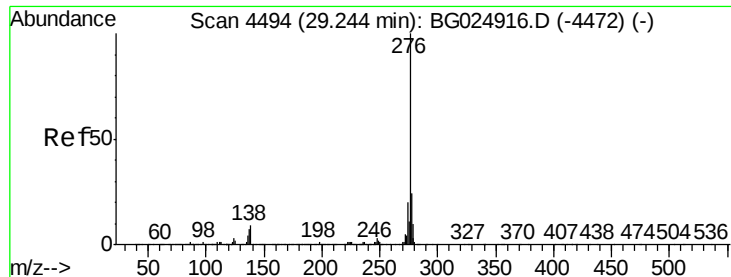
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	18.5	27.7
125	4.0	4.1	6.1#



#88
Benzo(a)pyrene
Concen: 5.99 ng/ul
RT: 25.16 min Scan# 3799
Delta R.T. 0.00 min
Lab File: BG024928.D
Acq: 24 Nov 2016 4:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.8	26.6
125	7.1	5.4	8.0





#89

Indeno(1,2,3-cd)pyrene

Concen: 3.14 ng/ul

RT: 29.24 min Scan# 4493

Delta R.T. -0.01 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

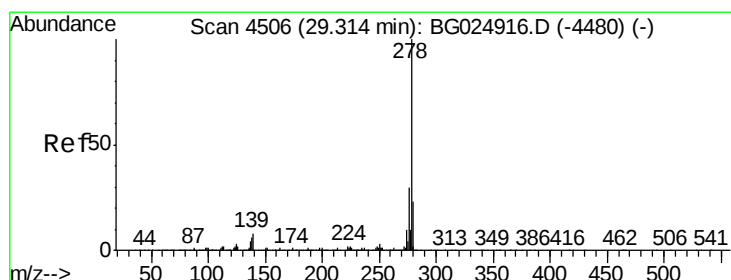
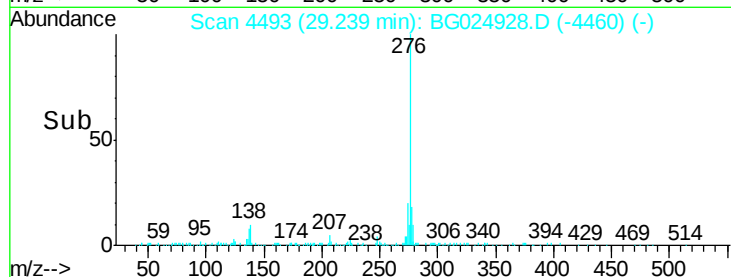
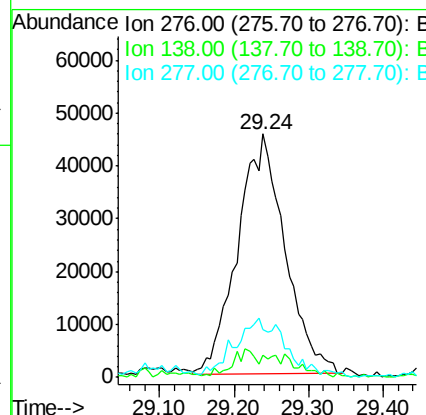
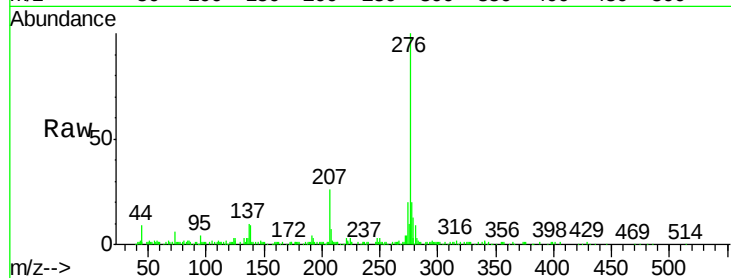
Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

Tgt Ion:	276	Resp:	199710
Ion	Ratio	Lower	Upper
276	100		
138	9.4	8.2	12.4
277	19.8	18.6	28.0



#90

Dibenzo(a,h)anthracene

Concen: 1.14 ng/ul

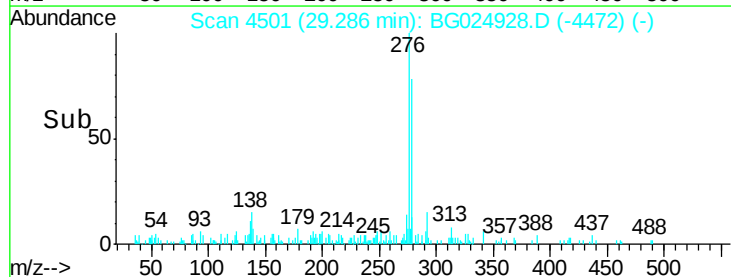
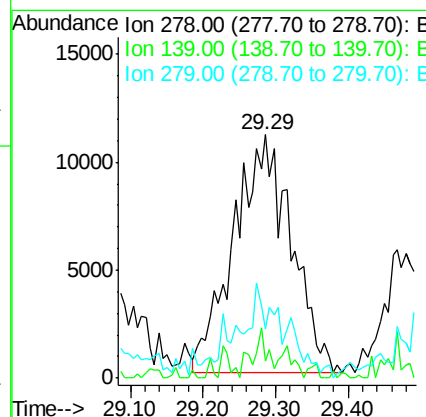
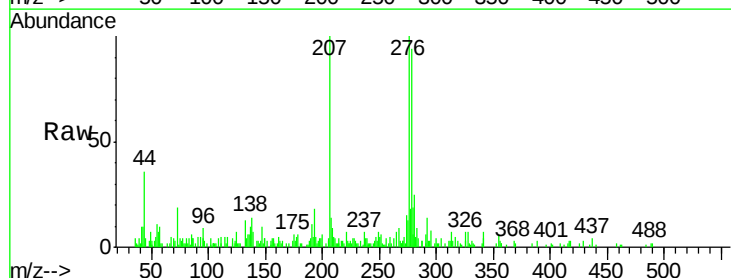
RT: 29.29 min Scan# 4501

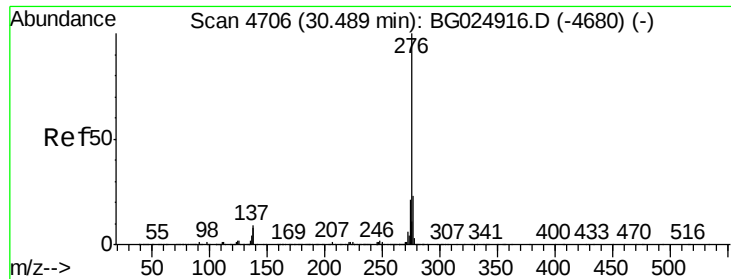
Delta R.T. -0.03 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Tgt Ion:	278	Resp:	60370
Ion	Ratio	Lower	Upper
278	100		
139	7.1	6.7	10.1
279	20.1	20.9	31.3#





#91

Benzo(g,h,i)perylene

Concen: 2.98 ng/ul

RT: 30.47 min Scan# 4703

Delta R.T. -0.02 min

Lab File: BG024928.D

Acq: 24 Nov 2016 4:56

Instrument :

BNA_G

ClientSampleId :

A4WD7MSD

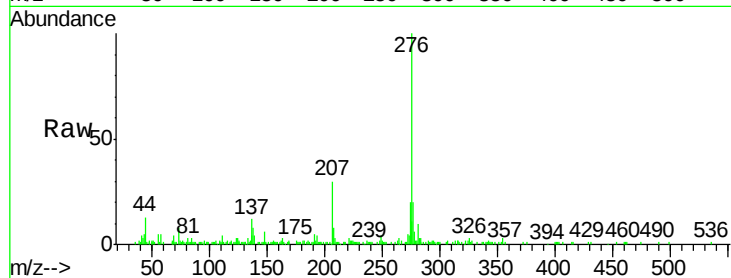
Tgt Ion: 276 Resp: 156362

Ion Ratio Lower Upper

276 100

138 12.0 8.6 12.8

277 19.7 17.6 26.4



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

