

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081417\
 Data File : BG028316.D
 Acq On : 14 Aug 2017 14:06
 Operator : SJ/JU
 Sample : I4489-02
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 X2A52

Quant Time: Aug 15 06:10:28 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080217.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 15 06:10:30 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.36	152	43121	20.00	ng/ul	0.00
18) Naphthalene-d8	11.18	136	197009	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.97	164	147434	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.72	188	358728	20.00	ng/ul	0.00
75) Chrysene-d12	22.05	240	389302	20.00	ng/ul	0.00
83) Perylene-d12	25.56	264	331369	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.84	96	5176	5.59	ng/uL	0.00
5) Phenol-d5	7.51	99	126994	26.81	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.67	67	83704	27.91	ng/ul	0.00
9) 2-Chlorophenol-d4	7.90	132	90109	30.16	ng/ul	0.00
13) 4-Methylphenol-d8	9.06	113	112239	28.36	ng/ul	0.00
19) Nitrobenzene-d5	9.53	128	50004	32.46	ng/ul	0.00
22) 2-Nitrophenol-d4	10.26	143	59758	35.38	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.80	165	114995	32.91	ng/ul	0.00
29) 4-Chloroaniline-d4	11.31	131	160758	41.33	ng/ul	0.00
43) Dimethylphthalate-d6	14.36	166	444514	33.90	ng/ul	0.00
46) Acenaphthylene-d8	14.67	160	474507	32.09	ng/ul	0.00
51) 4-Nitrophenol-d4	15.17	143	73057	35.04	ng/ul	0.00
57) Fluorene-d10	15.96	176	372517	31.67	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.08	200	92113	39.53	ng/ul	0.00
70) Anthracene-d10	17.82	188	612172	35.59	ng/ul	0.00
76) Pyrene-d10	20.09	212	681006	34.11	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.32	264	604760	38.98	ng/ul	0.00

Target Compounds

						Qvalue
8) Bis(2-Chloroethyl)ether	7.77	93	55950	17.45	ng/ul	97
12) 2,2'-oxybis(1-Chloropropan	8.87	45	98800	12.69	ng/ul#	91
16) 4-Methylphenol	9.11	108	156676	41.77	ng/ul	94
17) Hexachloroethane	9.45	117	67486	55.94	ng/ul	93
20) Nitrobenzene	9.57	77	80057	17.95	ng/ul#	89
23) 2-Nitrophenol	10.29	139	69410	40.71	ng/ul#	84
24) 2,4-Dimethylphenol	10.33	107	112267	26.49	ng/ul	97
25) Bis(2-Chloroethoxy)methane	10.56	93	79102	17.14	ng/ul	99
27) 2,4-Dichlorophenol	10.82	162	88246	27.74	ng/ul	94
30) 4-Chloroaniline	11.34	127	251914	66.81	ng/ul	94
34) 2-Methylnaphthalene	12.81	142	201058	25.65	ng/ul	92
37) Hexachlorocyclopentadiene	13.14	237	128051	48.83	ng/ul	99
38) 2,4,6-Trichlorophenol	13.41	196	63090	21.30	ng/ul	95
39) 2,4,5-Trichlorophenol	13.41	196	63090	19.54	ng/ul	95
41) 2-Chloronaphthalene	13.85	162	124799	14.67	ng/ul	91
42) 2-Nitroaniline	14.05	65	245831	68.90	ng/ul	97
44) Dimethylphthalate	14.41	163	383252	31.74	ng/ul	99
45) 2,6-Dinitrotoluene	14.54	165	41693	16.72	ng/ul#	87
48) 3-Nitroaniline	14.88	138	163760	72.95	ng/ul#	98
50) 2,4-Dinitrophenol	15.08	184	115001	81.88	ng/ul	92
52) 4-Nitrophenol	15.18	109	131548	60.89	ng/ul#	75
59) 4-Chlorophenyl-phenylether	15.99	204	102675	15.55	ng/ul#	84
63) 4,6-Dinitro-2-methylphenol	16.09	198	159165	67.36	ng/ul#	96

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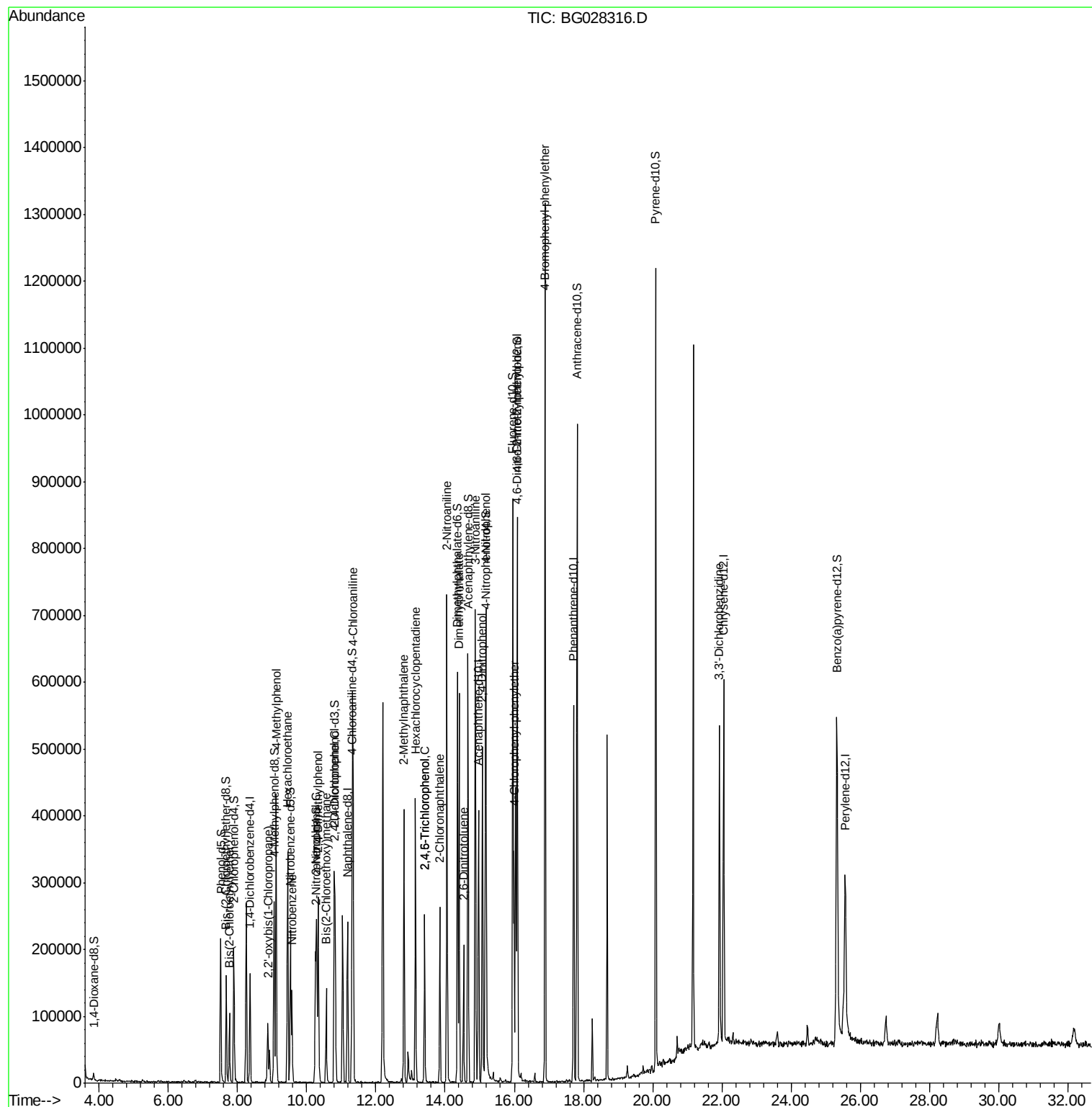
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 4-Bromophenyl-phenylether	16.89	248	281984	73.14	ng/ul	92
79) 3,3'-Dichlorobenzidine	21.93	252	205866	27.41	ng/ul	98

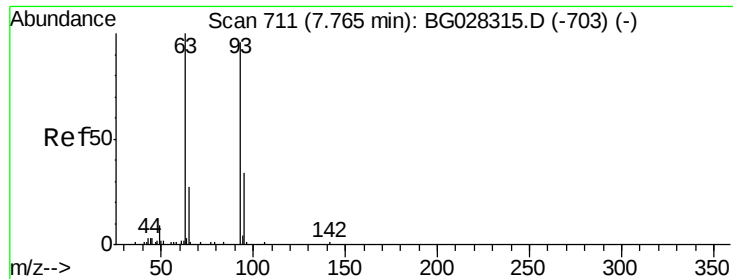
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Bis(2-Chloroethyl)ether

Concen: 17.45 ng/ul

RT: 7.77 min Scan# 711

Delta R.T. 0.00 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

Instrument :

BNA_G

ClientSampleId :

X2A52

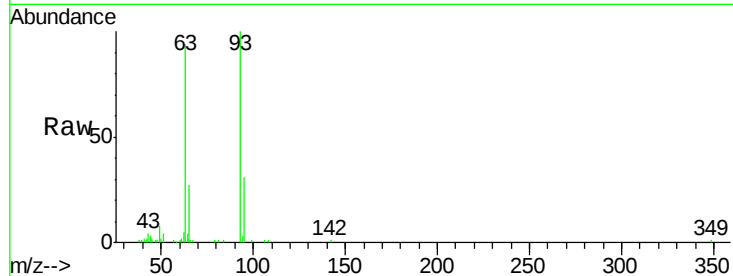
Tgt Ion: 93 Resp: 55950

Ion Ratio Lower Upper

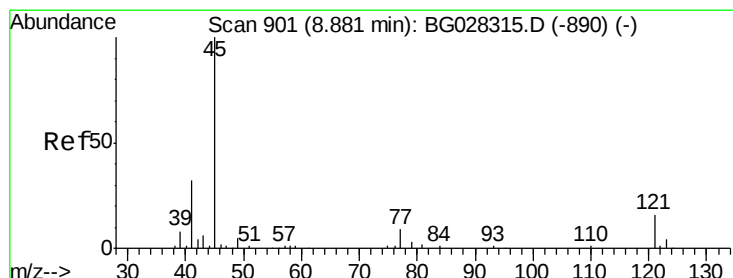
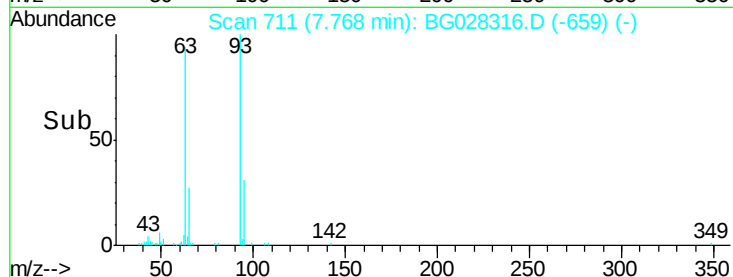
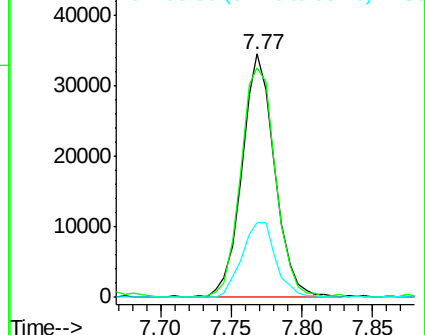
93 100

63 94.2 75.5 113.3

95 30.8 29.2 43.8



Abundance Ion 93.00 (92.70 to 93.70): BGC
Ion 63.00 (62.70 to 63.70): BGC
Ion 95.00 (94.70 to 95.70): BGC



#12

2,2'-oxybis(1-Chloropropane)

Concen: 12.69 ng/ul

RT: 8.87 min Scan# 899

Delta R.T. -0.01 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

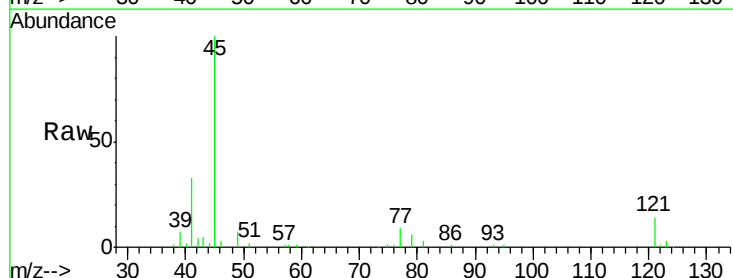
Tgt Ion: 45 Resp: 98800

Ion Ratio Lower Upper

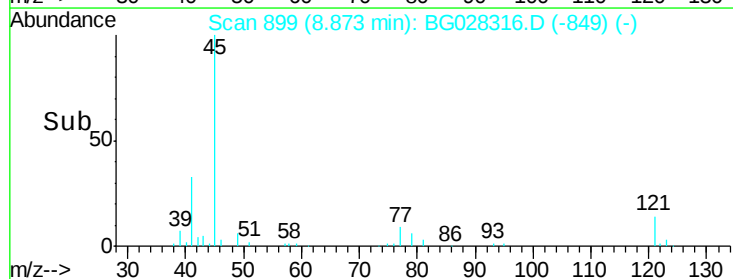
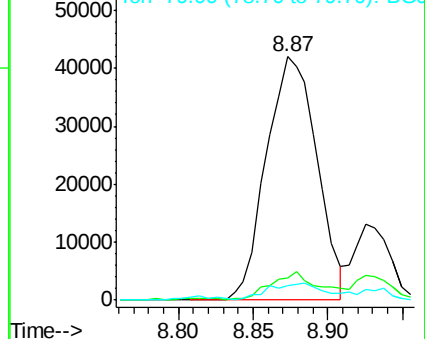
45 100

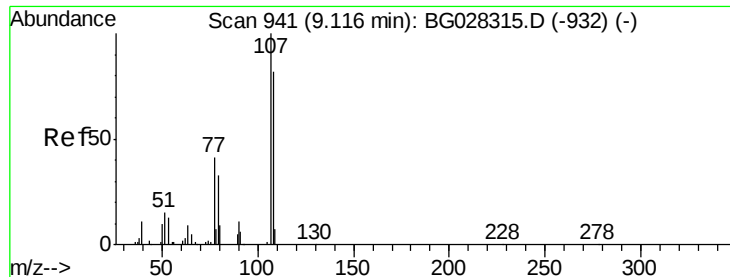
77 9.0 10.0 15.0#

79 5.8 7.3 10.9#



Abundance Ion 45.00 (44.70 to 45.70): BGC
Ion 77.00 (76.70 to 77.70): BGC
Ion 79.00 (78.70 to 79.70): BGC

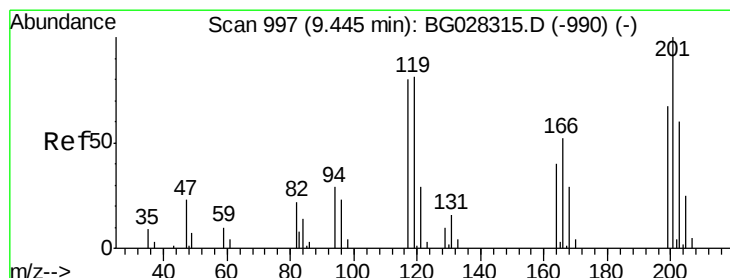
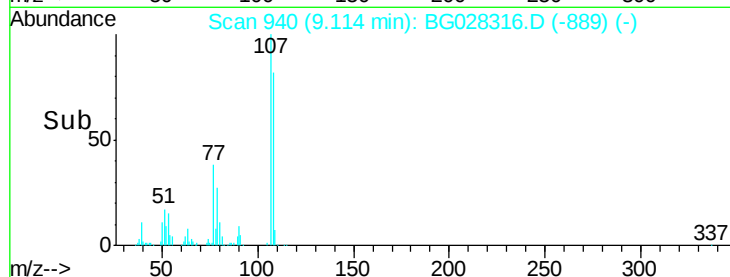
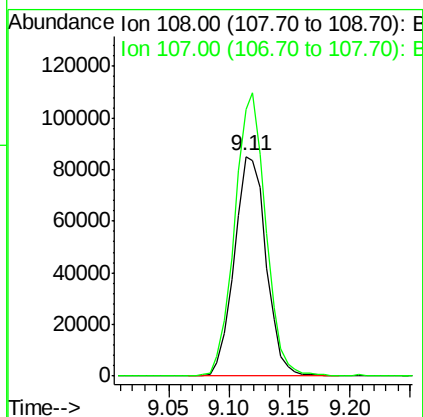
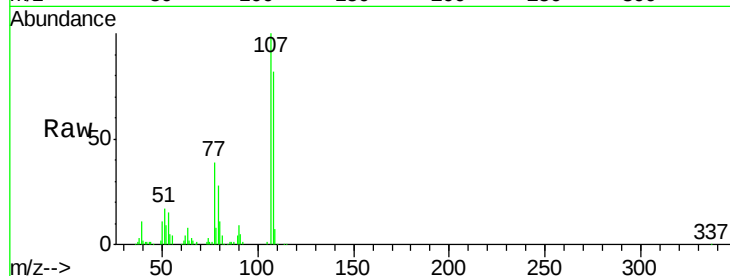




#16
4-Methylphenol
Concen: 41.77 ng/ul
RT: 9.11 min Scan# 940
Delta R.T. -0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

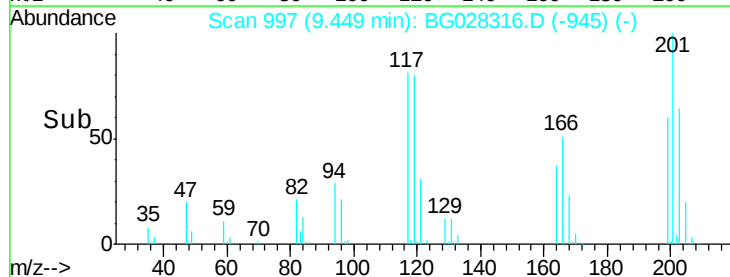
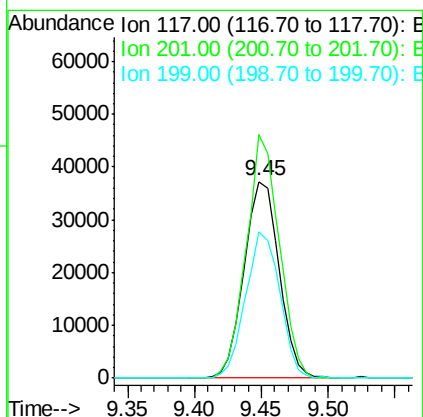
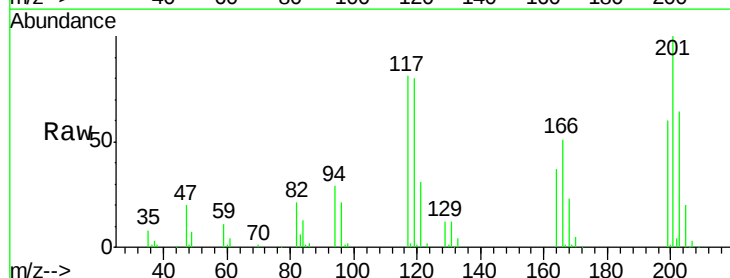
Instrument :
BNA_G
ClientSampleId :
X2A52

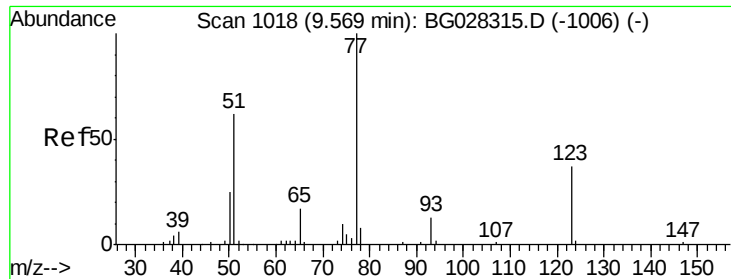
Tgt Ion:108 Resp: 156676
Ion Ratio Lower Upper
108 100
107 121.5 91.7 137.5



#17
Hexachloroethane
Concen: 55.94 ng/ul
RT: 9.45 min Scan# 997
Delta R.T. 0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

Tgt Ion:117 Resp: 67486
Ion Ratio Lower Upper
117 100
201 123.8 91.9 137.9
199 76.1 64.3 96.5

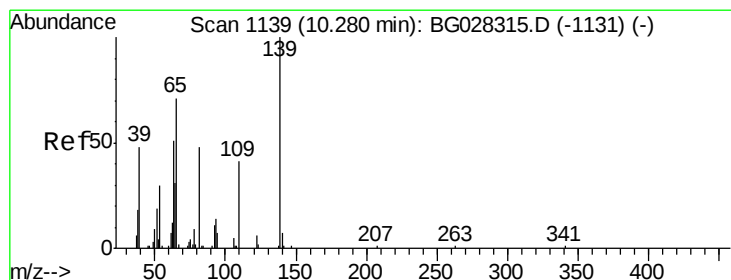
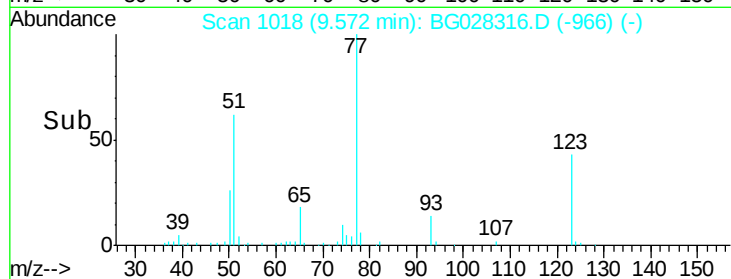
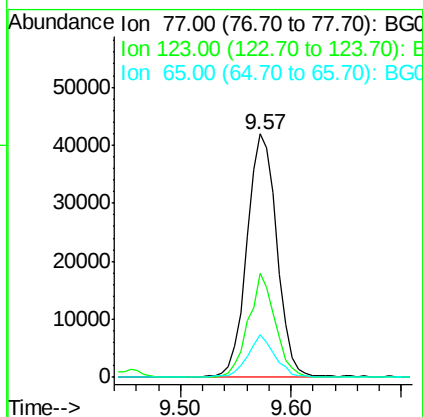
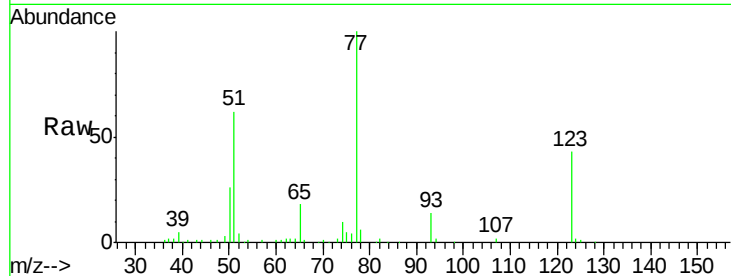




#20
Nitrobenzene
Concen: 17.95 ng/ul
RT: 9.57 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

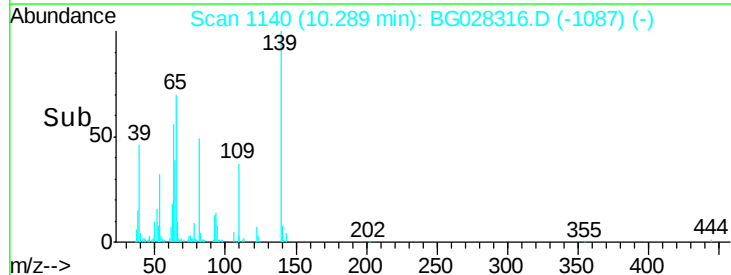
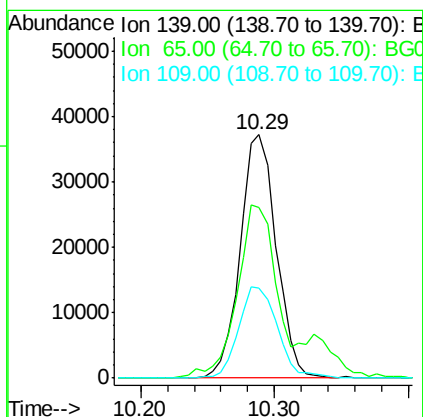
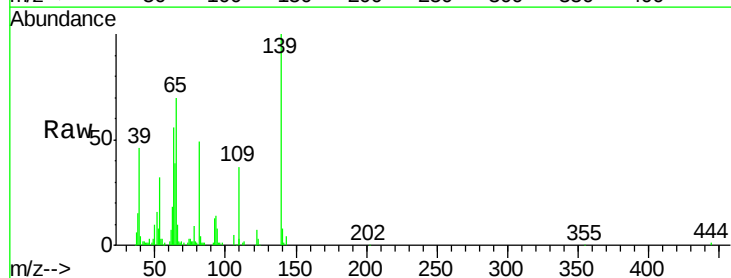
Instrument :
BNA_G
ClientSampled :
X2A52

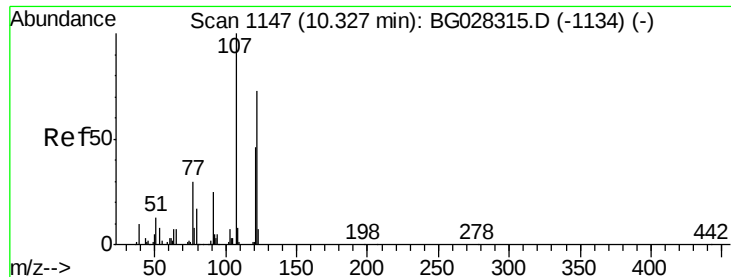
Tgt Ion: 77 Resp: 80057
Ion Ratio Lower Upper
77 100
123 42.8 27.4 41.0#
65 17.8 13.3 19.9



#23
2-Nitrophenol
Concen: 40.71 ng/ul
RT: 10.29 min Scan# 1140
Delta R.T. 0.01 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

Tgt Ion: 139 Resp: 69410
Ion Ratio Lower Upper
139 100
65 70.3 67.0 100.6
109 37.0 39.6 59.4#

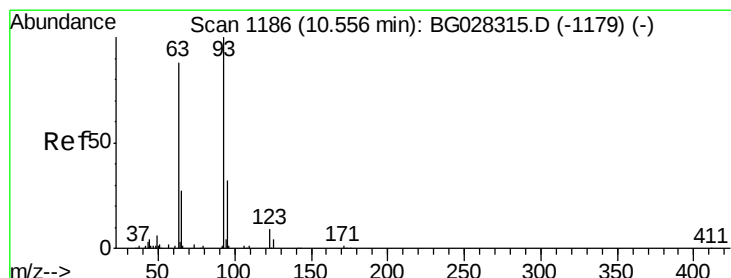
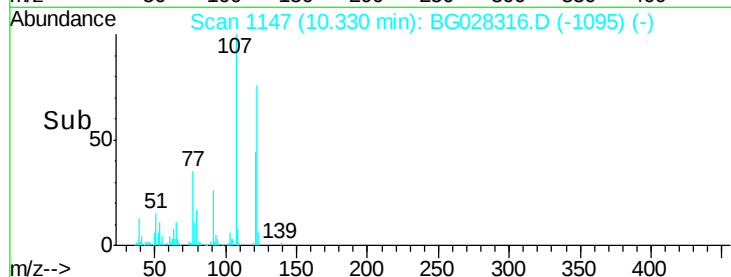
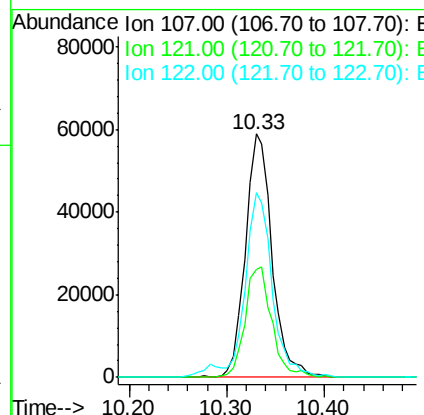
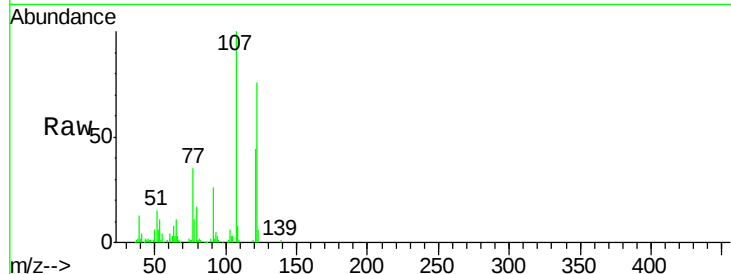




#24
2,4-Dimethylphenol
Concen: 26.49 ng/ul
RT: 10.33 min Scan# 1147
Delta R.T. 0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

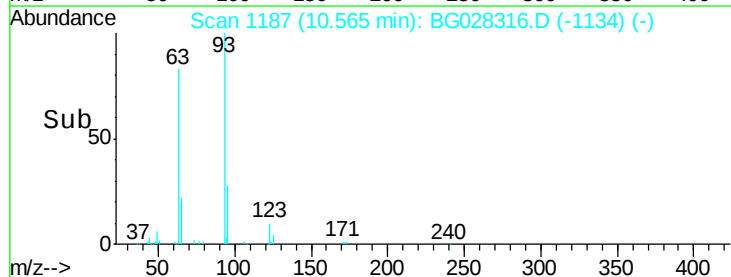
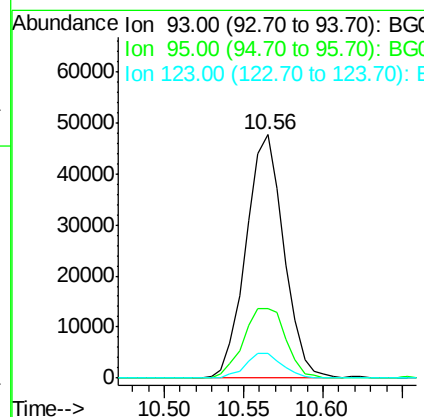
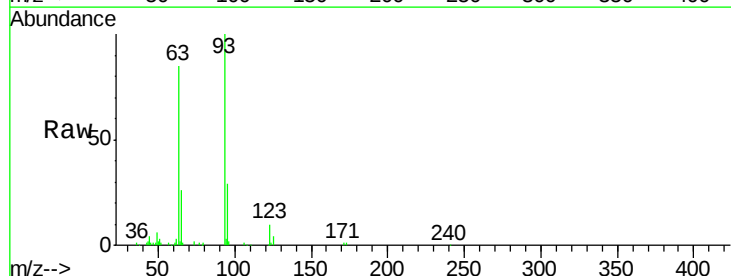
Instrument :
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ClientSampleId :
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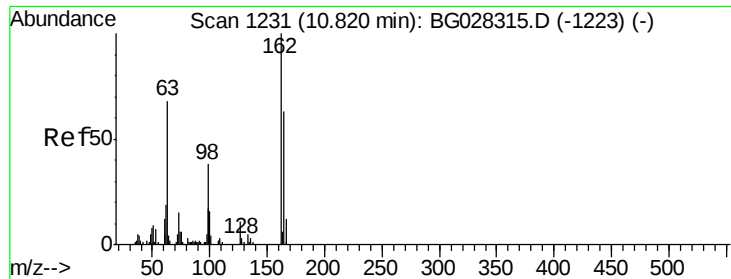
Tgt Ion	Ratio	Lower	Upper
107	100		
121	44.3	32.3	48.5
122	75.9	61.2	91.8



#25
Bis(2-Chloroethoxy)methane
Concen: 17.14 ng/ul
RT: 10.56 min Scan# 1187
Delta R.T. 0.01 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

Tgt Ion	Ratio	Lower	Upper
93	100		
95	28.8	23.4	35.0
123	10.0	7.8	11.6

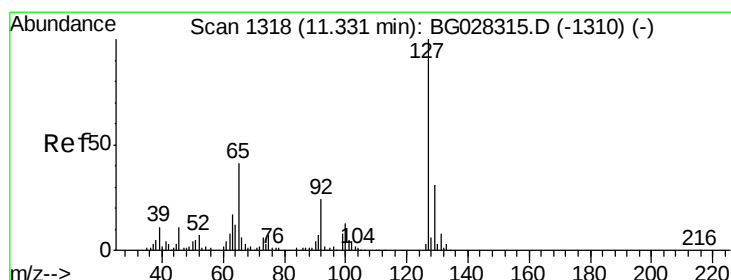
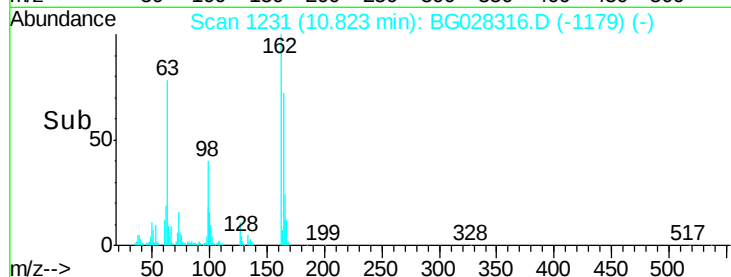
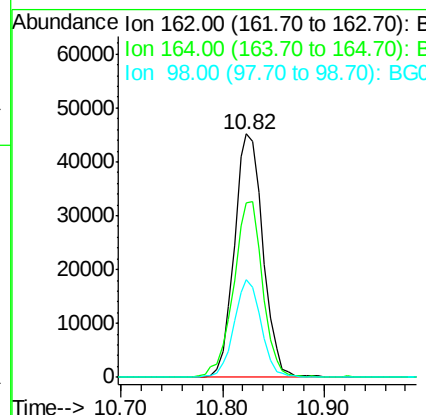
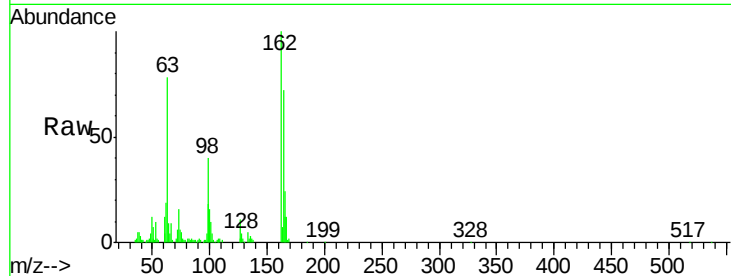




#27
 2,4-Dichlorophenol
 Concen: 27.74 ng/ul
 RT: 10.82 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

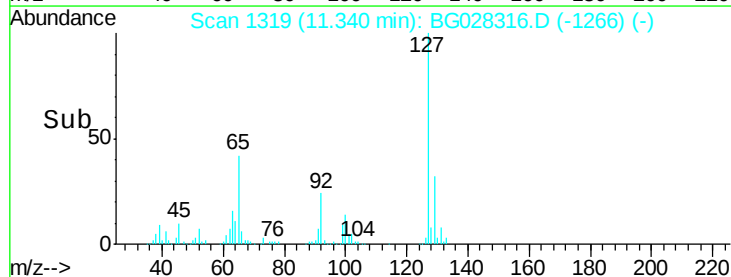
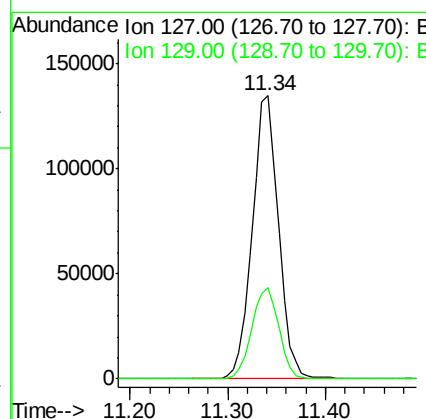
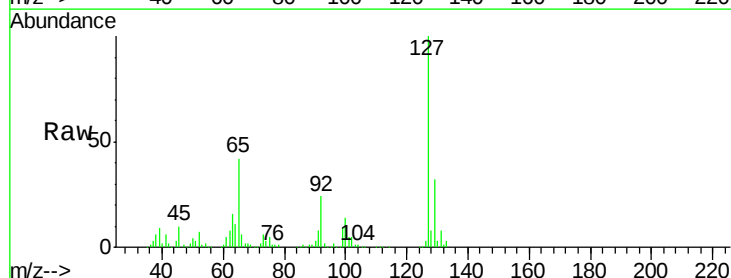
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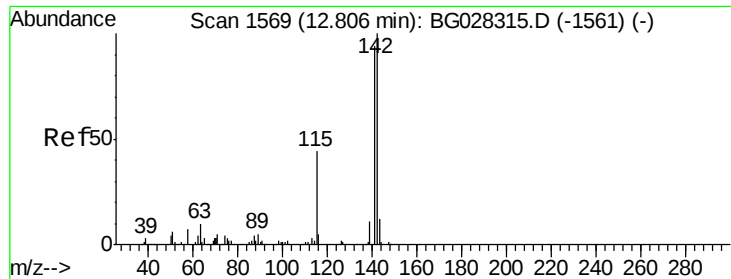
Tgt Ion:162 Resp: 88246
 Ion Ratio Lower Upper
 162 100
 164 71.6 50.8 76.2
 98 40.1 32.1 48.1



#30
 4-Chloroaniline
 Concen: 66.81 ng/ul
 RT: 11.34 min Scan# 1319
 Delta R.T. 0.01 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Tgt Ion:127 Resp: 251914
 Ion Ratio Lower Upper
 127 100
 129 32.4 28.9 43.3

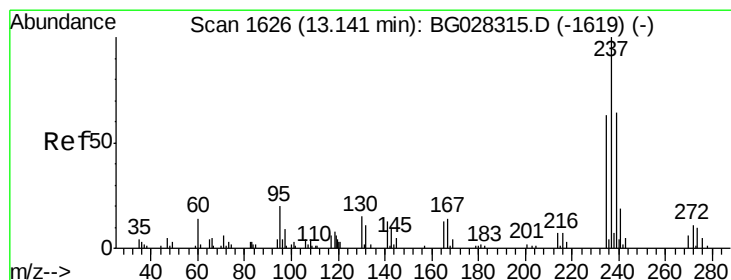
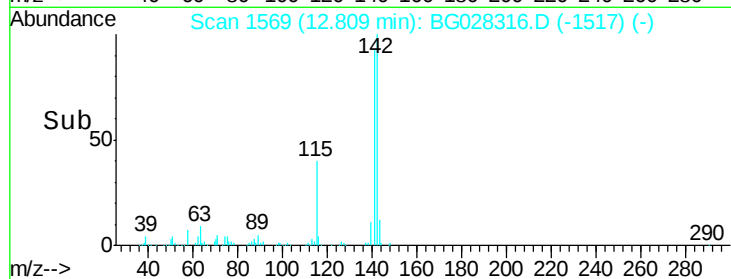
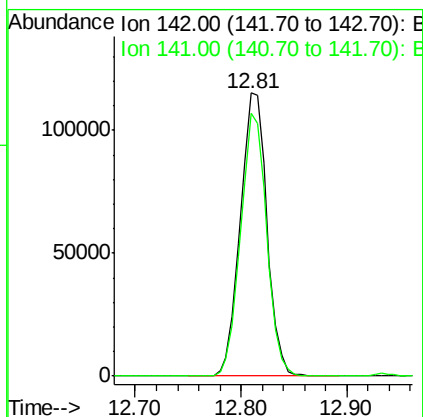
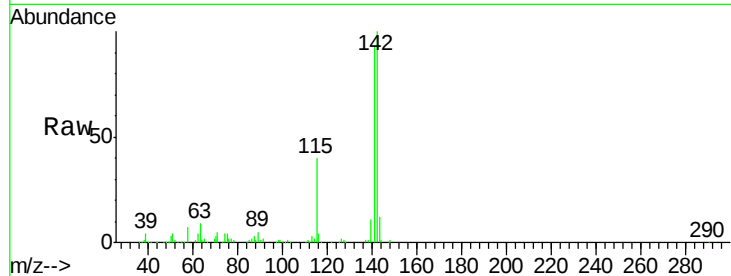




#34
2-Methylnaphthalene
Concen: 25.65 ng/ul
RT: 12.81 min Scan# 1569
Delta R.T. 0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

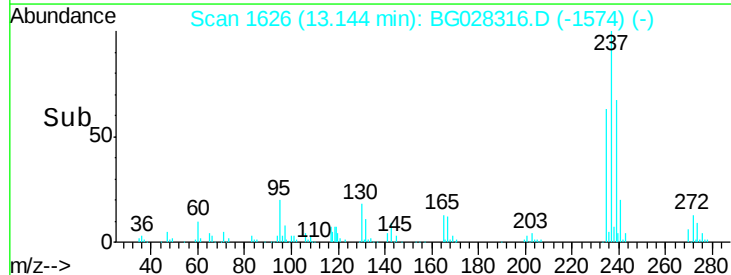
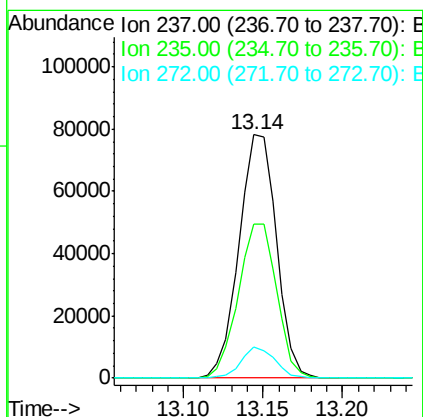
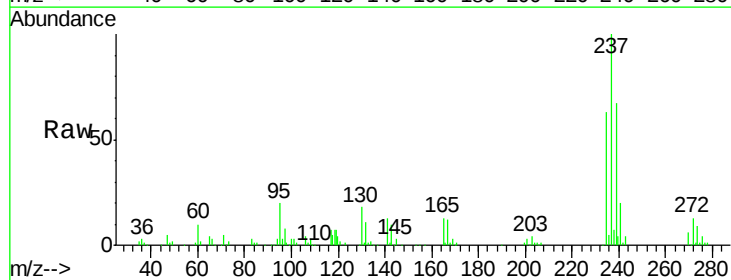
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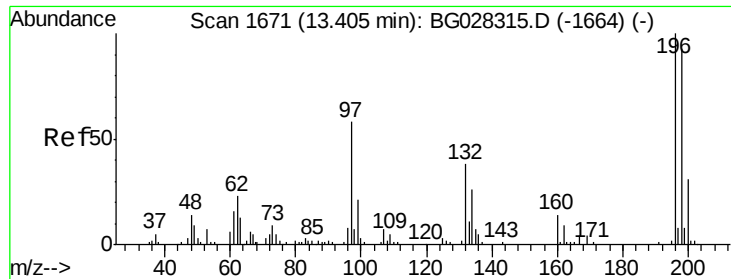
Tgt Ion:142 Resp: 201058
Ion Ratio Lower Upper
142 100
141 93.0 68.6 102.8



#37
Hexachlorocyclopentadiene
Concen: 48.83 ng/ul
RT: 13.14 min Scan# 1626
Delta R.T. 0.00 min
Lab File: BG028316.D
Acq: 14 Aug 2017 14:06

Tgt Ion:237 Resp: 128051
Ion Ratio Lower Upper
237 100
235 63.4 50.2 75.4
272 12.9 10.6 16.0

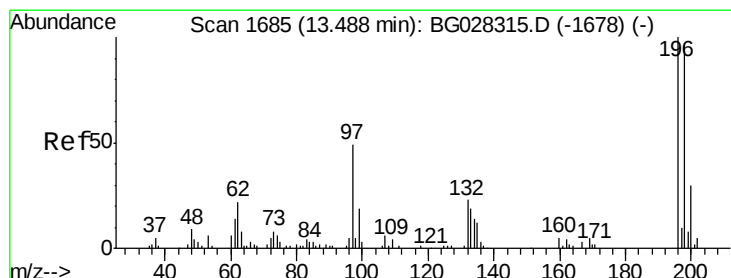
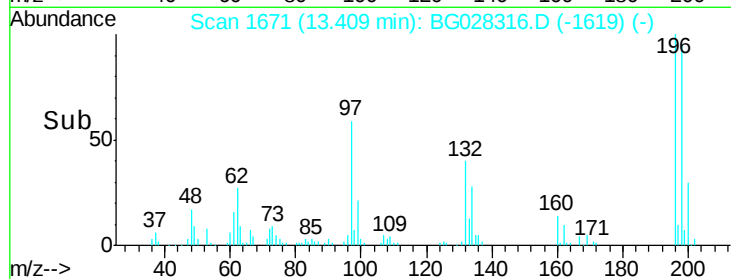
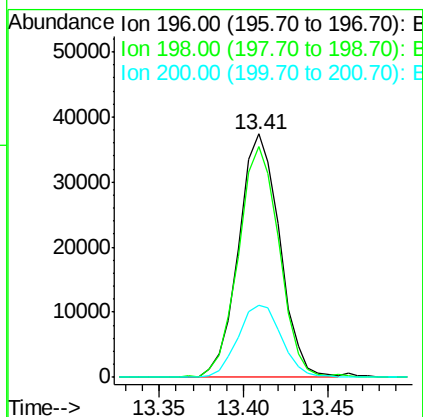
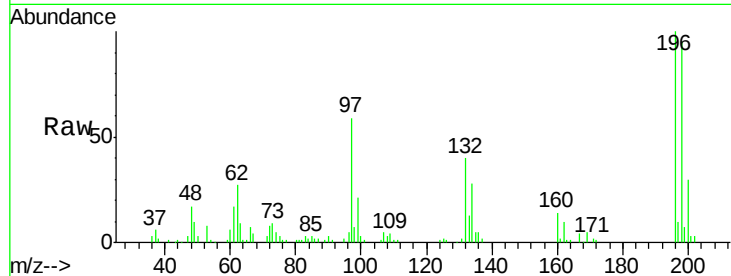




#38
 2,4,6-Trichlorophenol
 Concen: 21.30 ng/ul
 RT: 13.41 min Scan# 1671
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

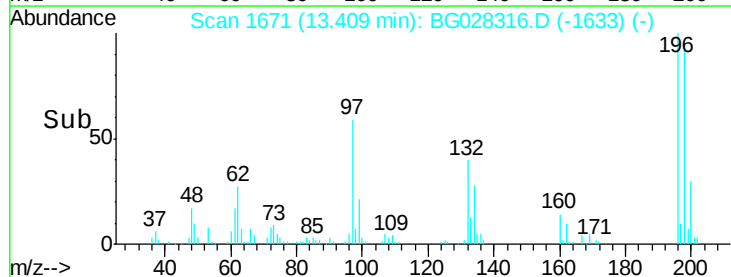
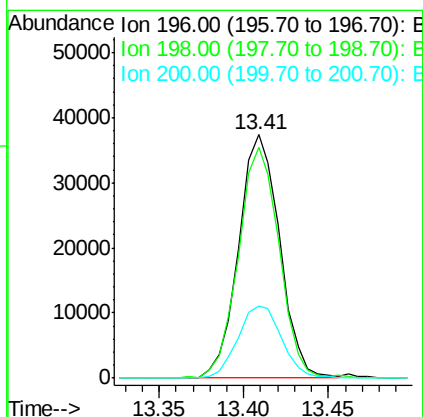
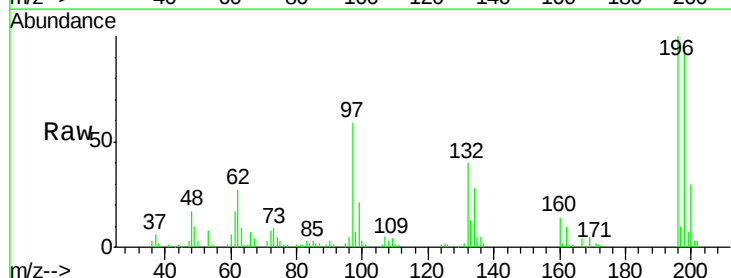
Instrument :
 BNA_G
 ClientSampleId :
 X2A52

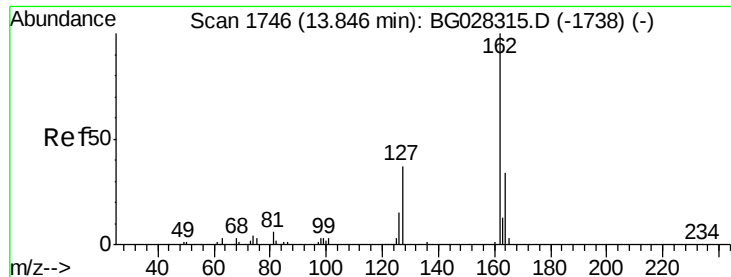
Tgt Ion:196 Resp: 63090
 Ion Ratio Lower Upper
 196 100
 198 94.8 71.4 107.2
 200 29.5 24.6 37.0



#39
 2,4,5-Trichlorophenol
 Concen: 19.54 ng/ul
 RT: 13.41 min Scan# 1671
 Delta R.T. -0.08 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Tgt Ion:196 Resp: 63090
 Ion Ratio Lower Upper
 196 100
 198 94.8 78.6 118.0
 200 29.5 27.3 40.9

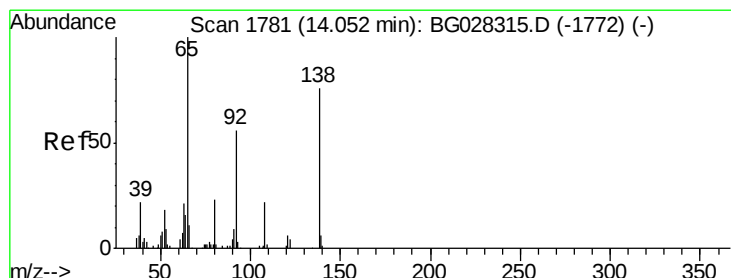
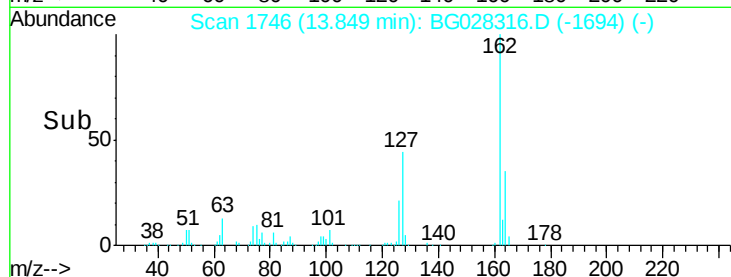
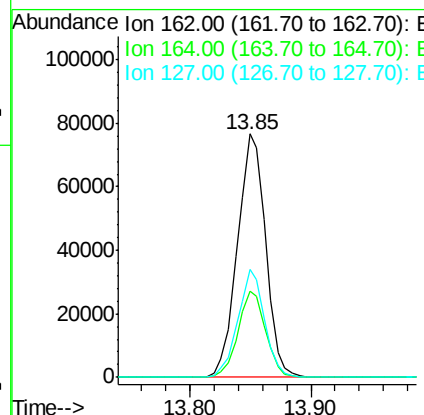
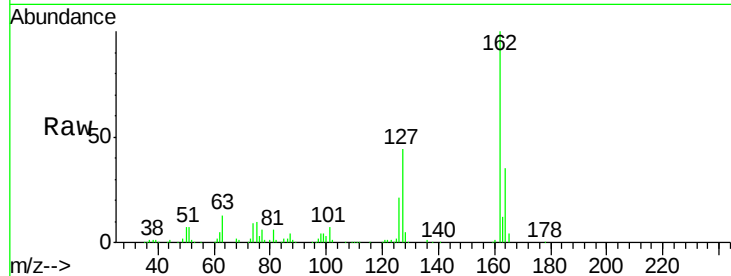




#41
 2-Chloronaphthalene
 Concen: 14.67 ng/ul
 RT: 13.85 min Scan# 1746
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

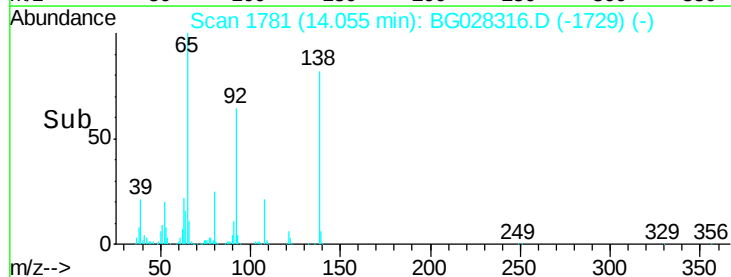
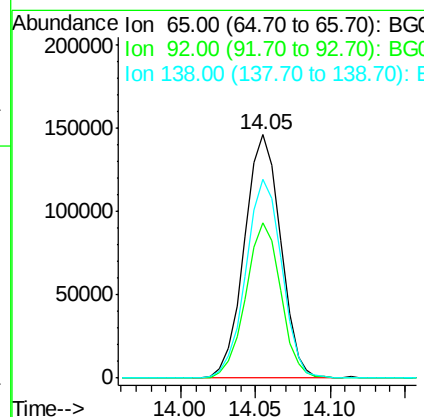
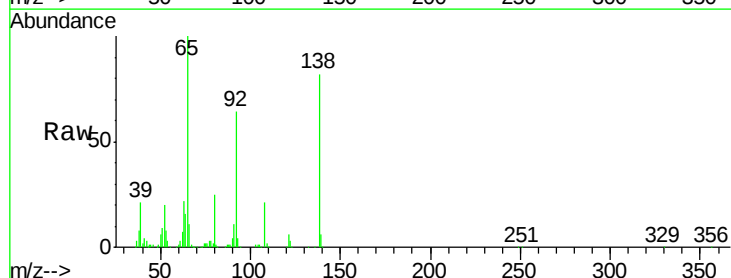
Instrument :
 BNA_G
 ClientSampleId :
 X2A52

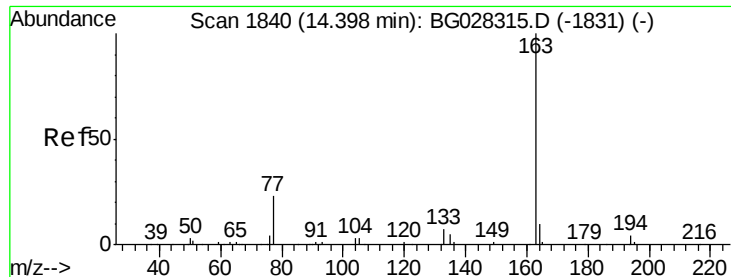
Tgt Ion: 162 Resp: 124799
 Ion Ratio Lower Upper
 162 100
 164 35.3 25.0 37.6
 127 44.4 30.7 46.1



#42
 2-Nitroaniline
 Concen: 68.90 ng/ul
 RT: 14.05 min Scan# 1781
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Tgt Ion: 65 Resp: 245831
 Ion Ratio Lower Upper
 65 100
 92 63.7 50.9 76.3
 138 81.6 61.8 92.6





#44

Dimethylphthalate

Concen: 31.74 ng/ul

RT: 14.41 min Scan# 1841

Delta R.T. 0.01 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

Instrument :

BNA_G

ClientSampleId :

X2A52

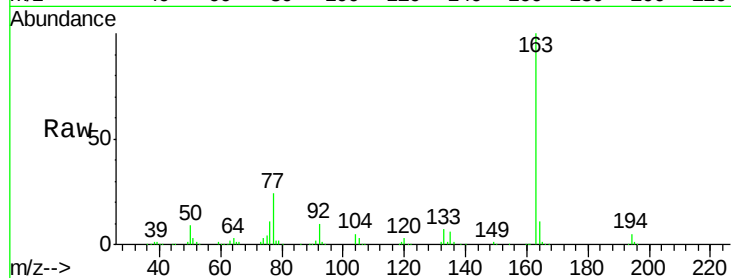
Tgt Ion:163 Resp: 383252

Ion Ratio Lower Upper

163 100

194 4.9 3.4 5.0

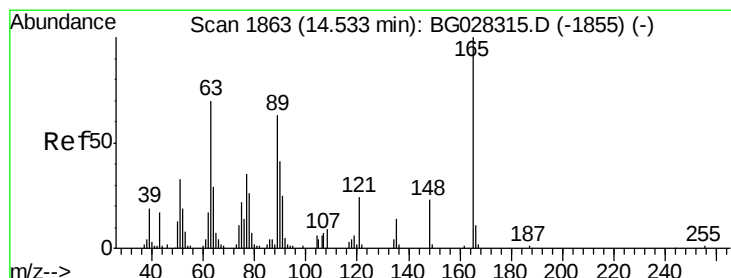
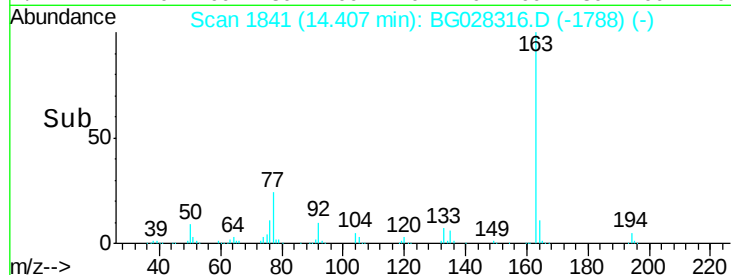
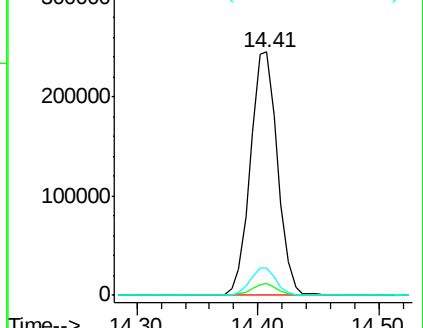
164 11.3 9.0 13.4



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



#45

2,6-Dinitrotoluene

Concen: 16.72 ng/ul

RT: 14.54 min Scan# 1863

Delta R.T. 0.00 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

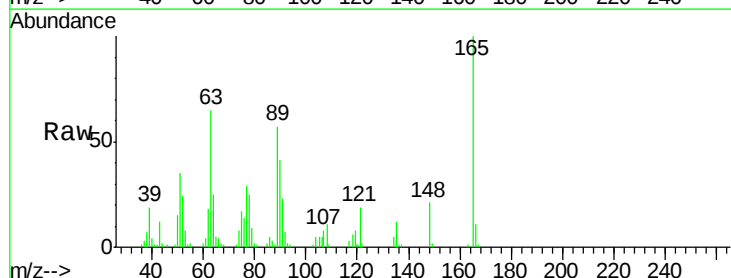
Tgt Ion:165 Resp: 41693

Ion Ratio Lower Upper

165 100

89 56.7 52.9 79.3

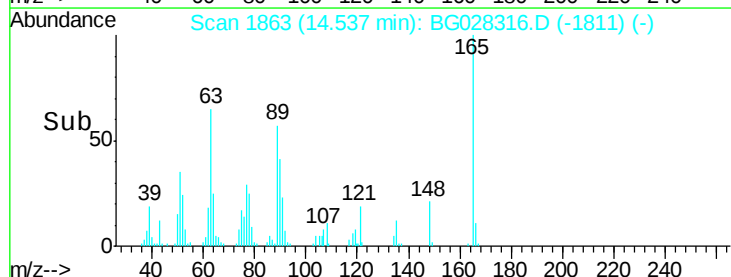
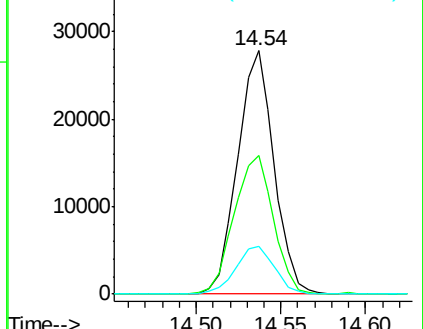
121 19.4 22.2 33.4#

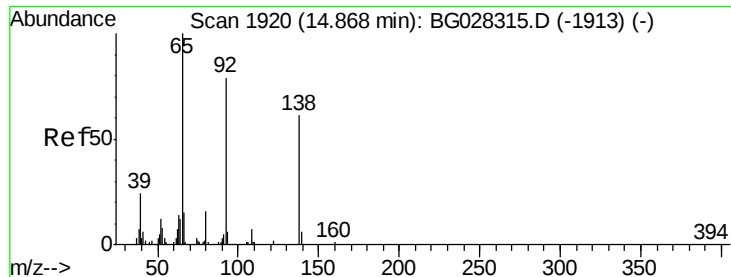


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 89.00 (88.70 to 89.70): BG

Ion 121.00 (120.70 to 121.70): E

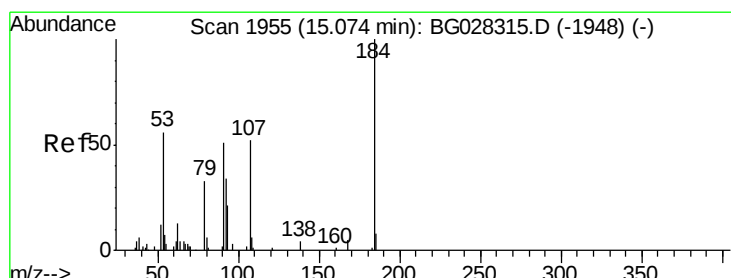
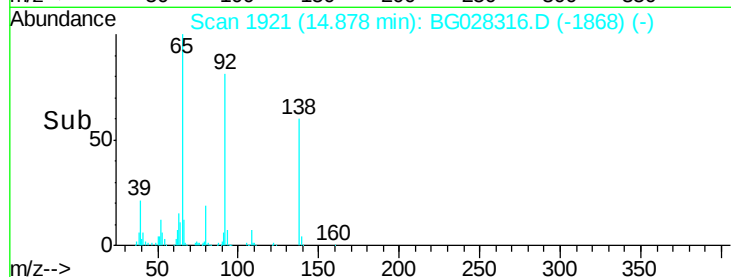
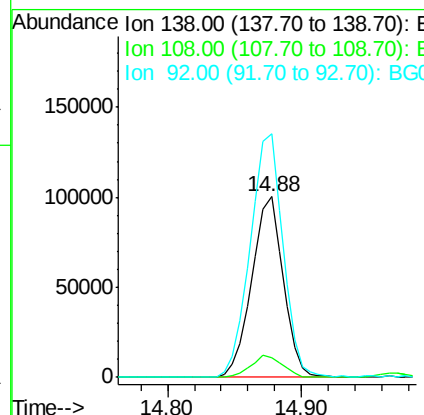
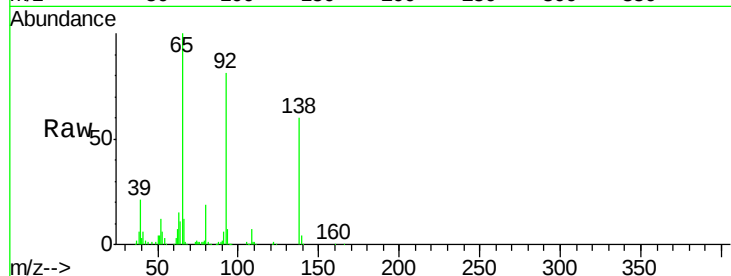




#48
 3-Nitroaniline
 Concen: 72.95 ng/ul
 RT: 14.88 min Scan# 1921
 Delta R.T. 0.01 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

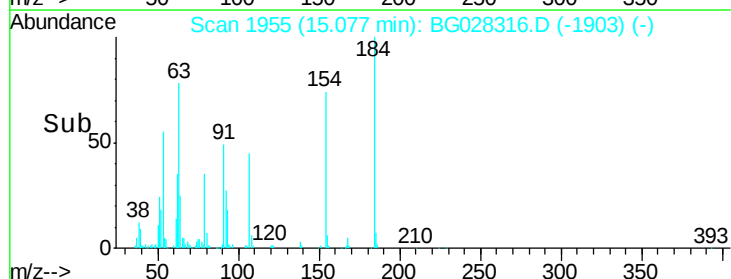
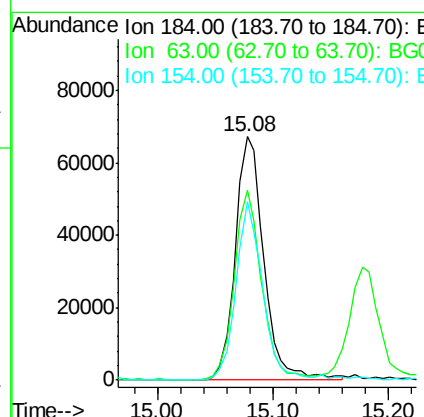
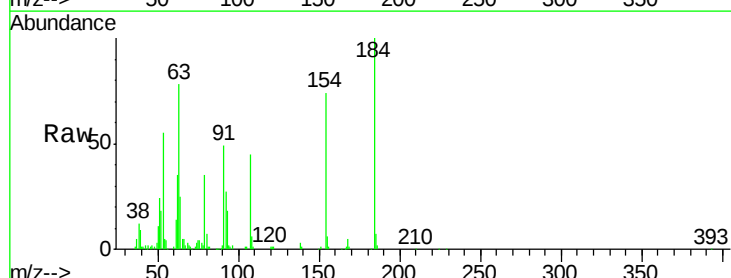
Instrument :
 BNA_G
 ClientSampleId :
 X2A52

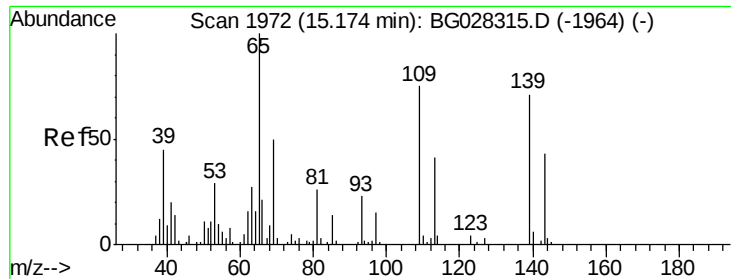
Tgt Ion:138 Resp: 163760
 Ion Ratio Lower Upper
 138 100
 108 11.0 6.3 9.5#
 92 134.8 106.4 159.6



#50
 2,4-Dinitrophenol
 Concen: 81.88 ng/ul
 RT: 15.08 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Tgt Ion:184 Resp: 115001
 Ion Ratio Lower Upper
 184 100
 63 78.2 65.1 97.7
 154 73.5 68.2 102.4





#52

4-Nitrophenol

Concen: 60.89 ng/ul

RT: 15.18 min Scan# 1972

Delta R.T. 0.00 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

Instrument :

BNA_G

ClientSampled :

X2A52

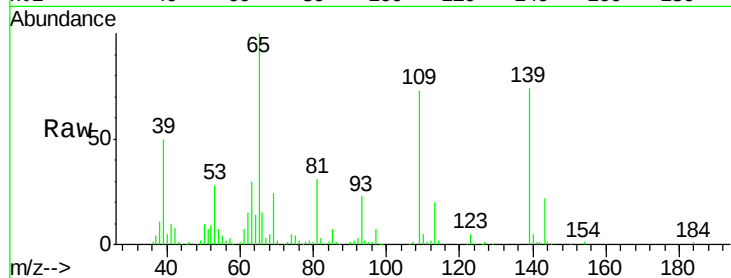
Tgt Ion:109 Resp: 131548

Ion Ratio Lower Upper

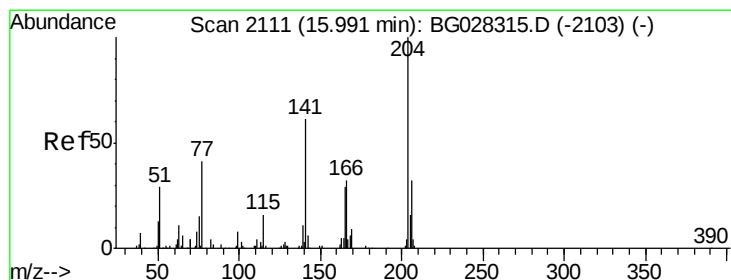
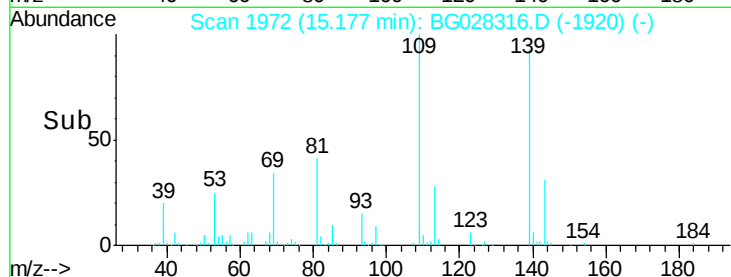
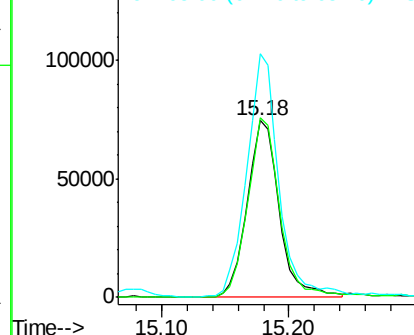
109 100

139 101.8 62.6 93.8#

65 137.6 90.4 135.6#



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): B



#59

4-Chlorophenyl-phenylether

Concen: 15.55 ng/ul

RT: 15.99 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

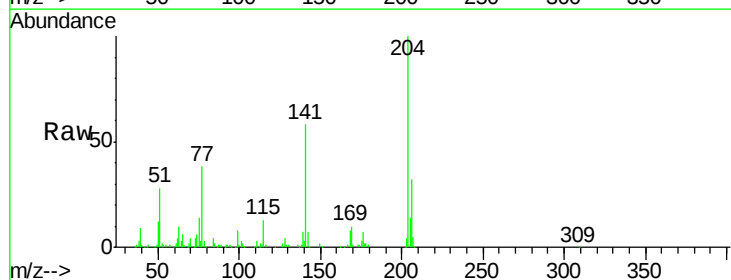
Tgt Ion:204 Resp: 102675

Ion Ratio Lower Upper

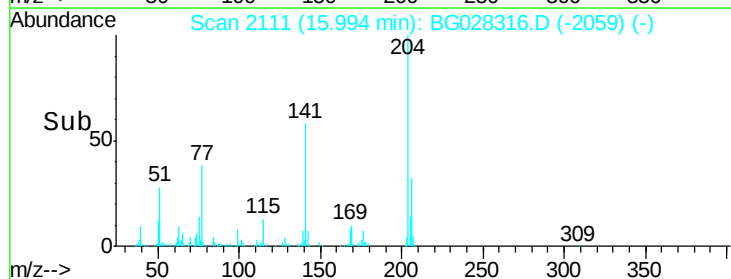
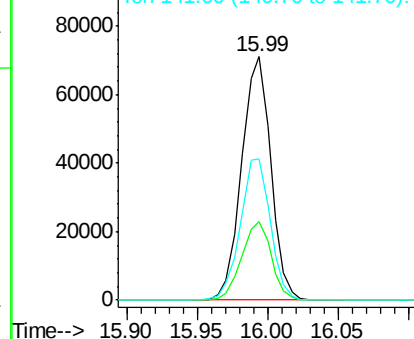
204 100

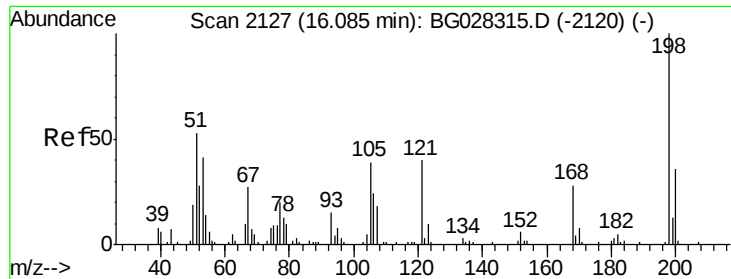
206 32.3 32.3 48.5#

141 57.8 57.5 86.3



Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

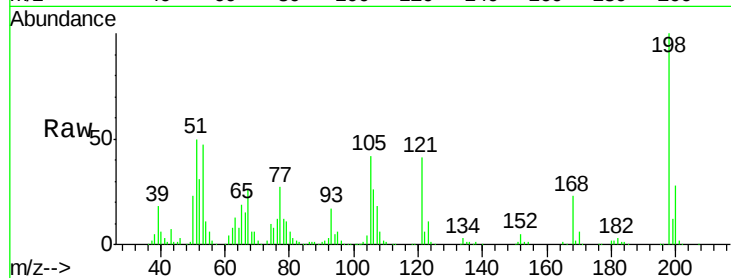




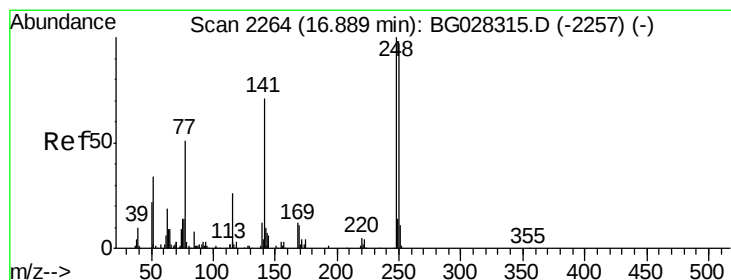
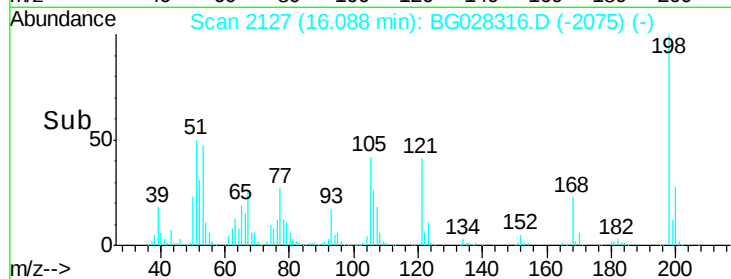
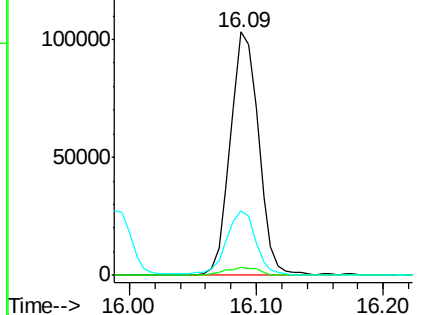
#63
 4,6-Dinitro-2-methylphenol
 Concen: 67.36 ng/ul
 RT: 16.09 min Scan# 2127
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Instrument :
 BNA_G
 ClientSampleId :
 X2A52

Tgt Ion:198 Resp: 159165
 Ion Ratio Lower Upper
 198 100
 182 3.4 5.8 6.4#
 77 26.5 22.1 33.9

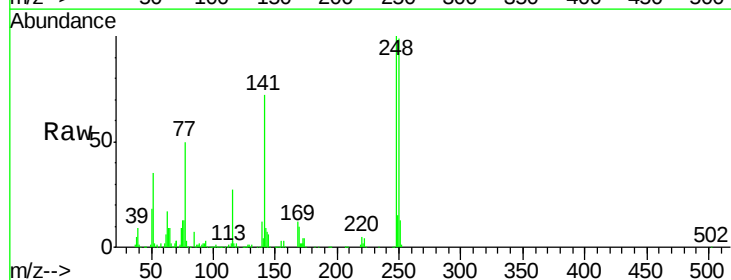


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 77.00 (76.70 to 77.70): B

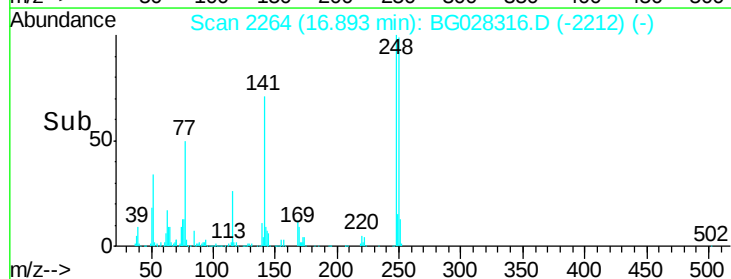
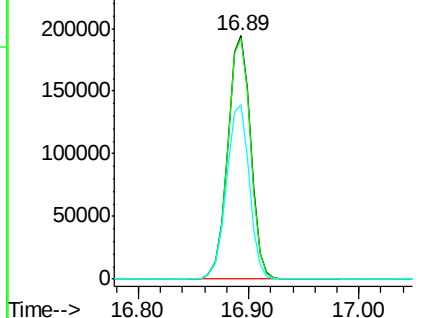


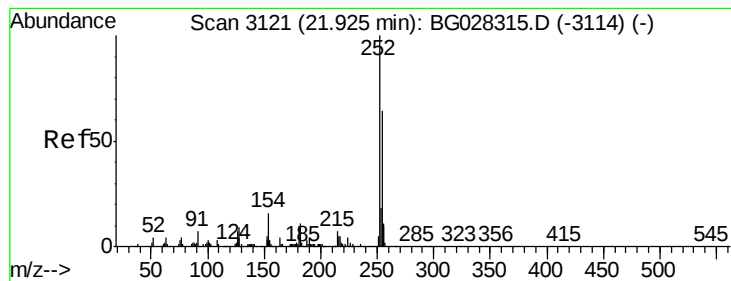
#65
 4-Bromophenyl-phenylether
 Concen: 73.14 ng/ul
 RT: 16.89 min Scan# 2264
 Delta R.T. 0.00 min
 Lab File: BG028316.D
 Acq: 14 Aug 2017 14:06

Tgt Ion:248 Resp: 281984
 Ion Ratio Lower Upper
 248 100
 250 98.8 71.9 107.9
 141 71.6 53.8 80.8



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#79

3,3'-Dichlorobenzidine

Concen: 27.41 ng/ul

RT: 21.93 min Scan# 3121

Delta R.T. 0.00 min

Lab File: BG028316.D

Acq: 14 Aug 2017 14:06

Instrument :

BNA_G

ClientSampleId :

X2A52

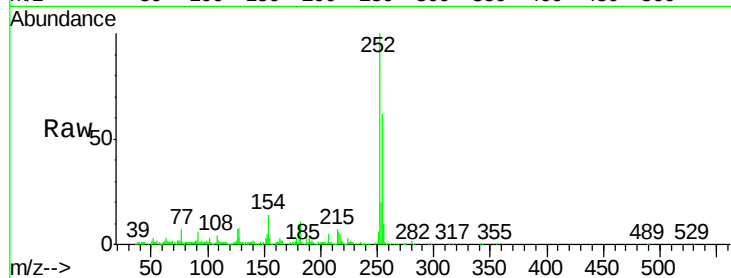
Tgt Ion:252 Resp: 205866

Ion Ratio Lower Upper

252 100

254 62.5 49.0 73.6

126 7.5 5.1 7.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

