

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020719\
 Data File : BG039404.D
 Acq On : 8 Feb 2019 6:08
 Operator : JU/SJ
 Sample : K1389-12
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 M-5S

Quant Time: Feb 08 09:17:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 29 15:41:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	52050	20.00	ng	0.00
21) Naphthalene-d8	11.00	136	225441	20.00	ng	0.00
39) Acenaphthene-d10	14.80	164	146626	20.00	ng	-0.01
64) Phenanthrene-d10	17.54	188	355209	20.00	ng	-0.01
76) Chrysene-d12	21.83	240	391396	20.00	ng	-0.01
87) Perylene-d12	25.22	264	365104	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	451217	148.37	ng	0.00
7) Phenol-d6	7.31	99	590117	131.82	ng	0.00
23) Nitrobenzene-d5	9.36	82	420312	116.47	ng	0.00
42) 2,4,6-Tribromophenol	16.28	330	212701	134.71	ng	0.00
45) 2-Fluorobiphenyl	13.43	172	979965	95.88	ng	0.00
79) Terphenyl-d14	20.14	244	1628720	88.08	ng	-0.01

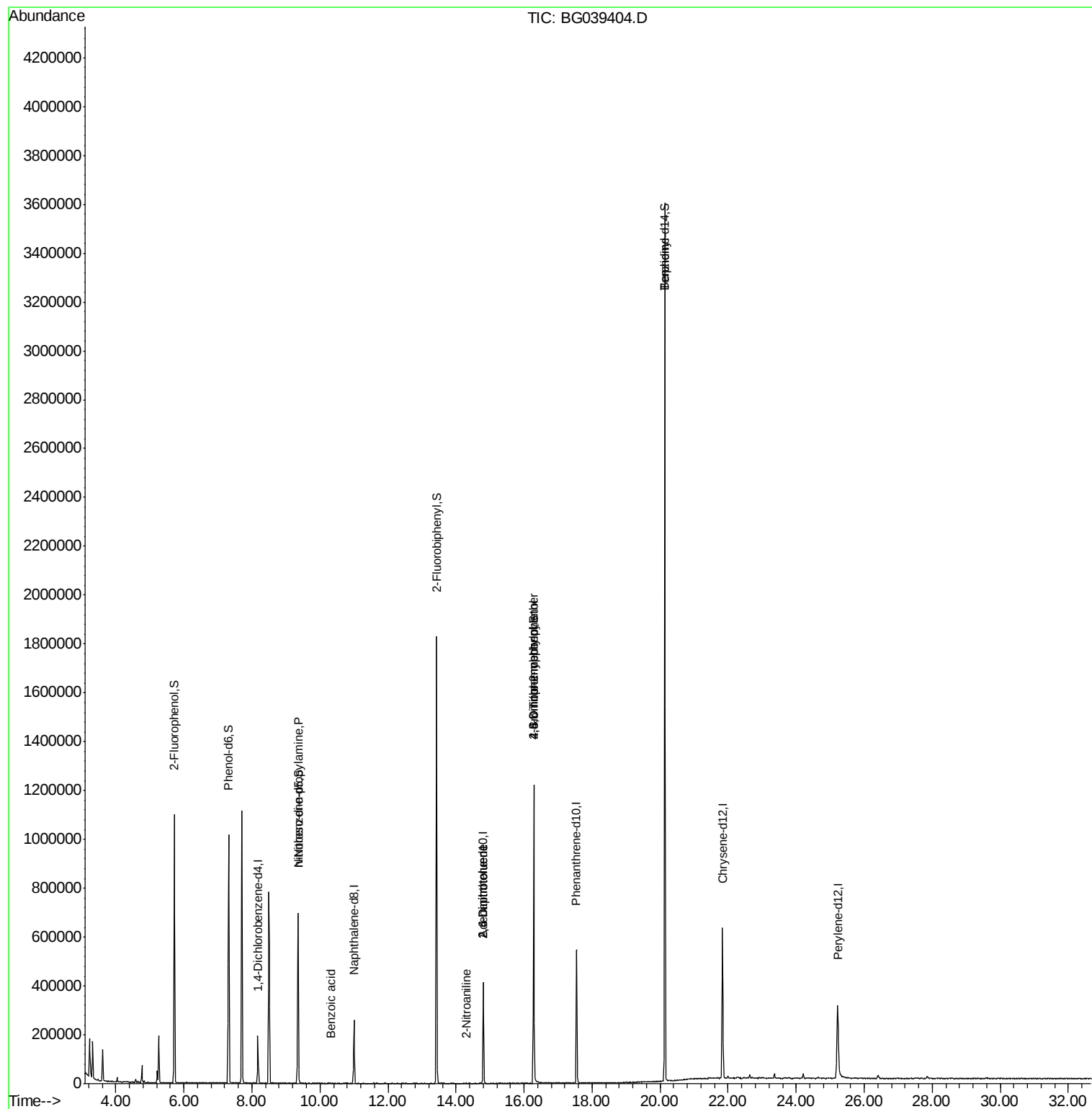
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.31	77	973	Below Cal	#	4
19) n-Nitroso-di-n-propylamine	9.36	70	54963	17.30	ng	70
32) Benzoic acid	10.31	122	59	9.04	ng	1
48) 2-Nitroaniline	14.31	65	59	8.31	ng	10
51) 2,6-Dinitrotoluene	14.80	165	19790	14.28	ng	24
57) 2,4-Dinitrotoluene	14.80	165	19790	13.67	ng	19
65) 4,6-Dinitro-2-methylphenol	16.28	198	838	4.93	ng	6
67) 4-Bromophenyl-phenylether	16.28	248	16192	4.11	ng	1
77) Benzidine	20.14	184	29083	2.27	ng	93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.18 min Scan# 866

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampleId :

M-5S

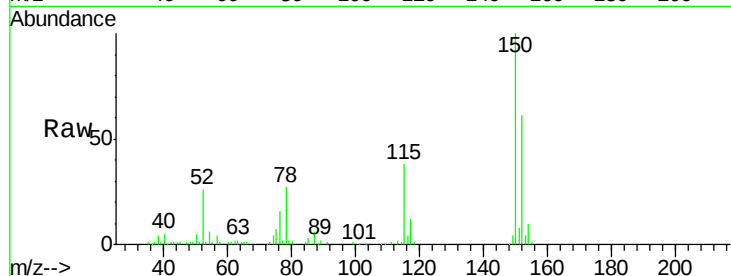
Tot Ion:152 Resp: 52050

Ion Ratio Lower Upper

152 100

150 165.0 123.7 185.5

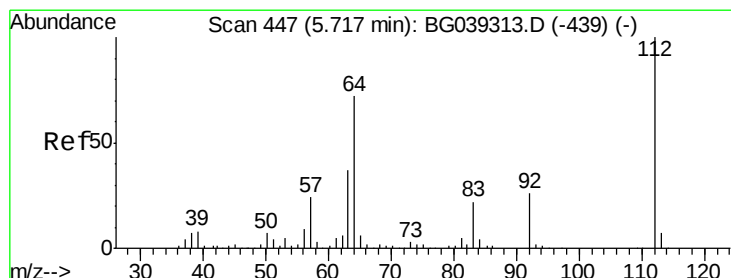
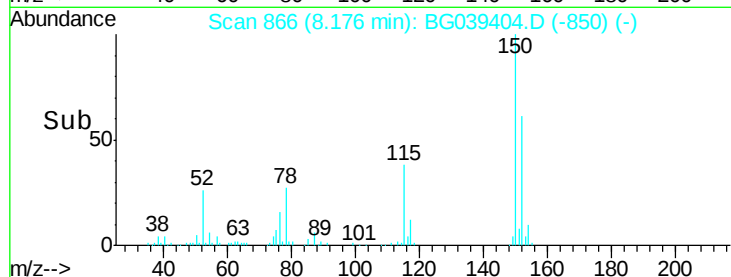
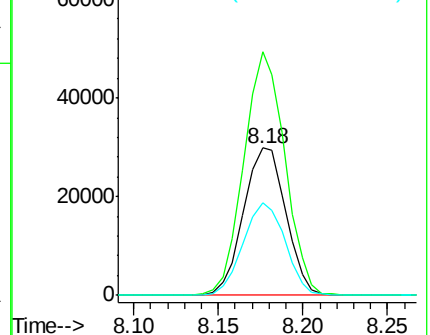
115 63.1 45.9 68.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 148.37 ng

RT: 5.71 min Scan# 447

Delta R.T. -0.00 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

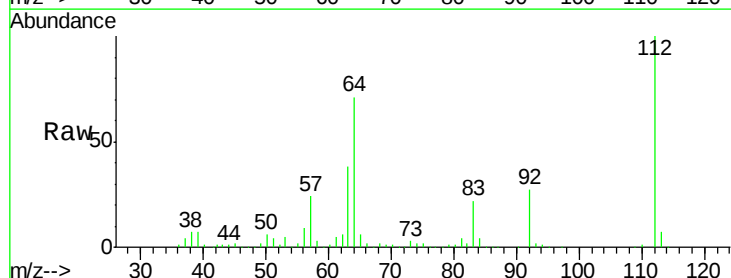
Tgt Ion:112 Resp: 451217

Ion Ratio Lower Upper

112 100

64 71.1 57.8 86.8

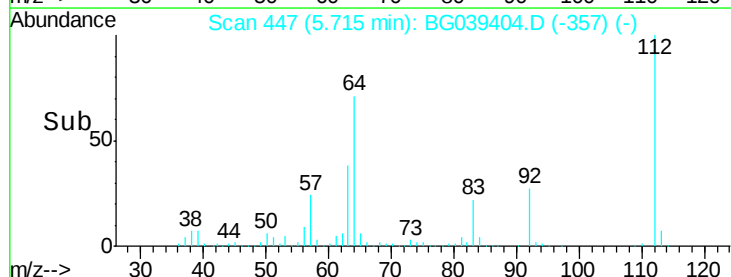
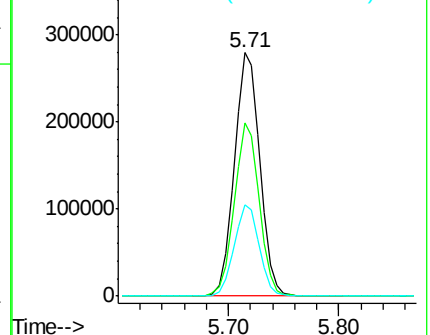
63 37.6 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 131.82 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampleId :

M-5S

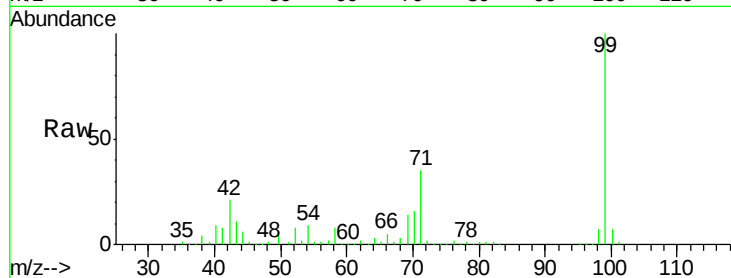
Tot Ion: 99 Resp: 590117

Ion Ratio Lower Upper

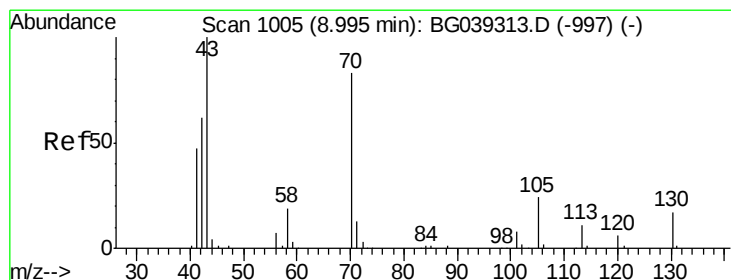
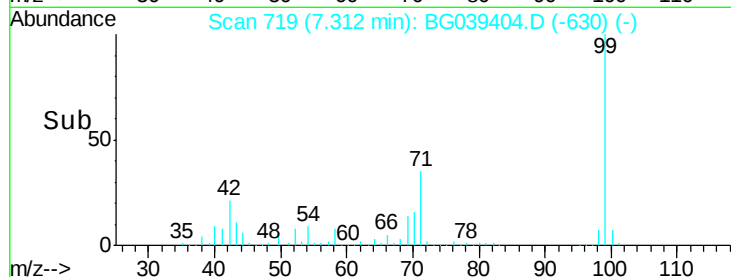
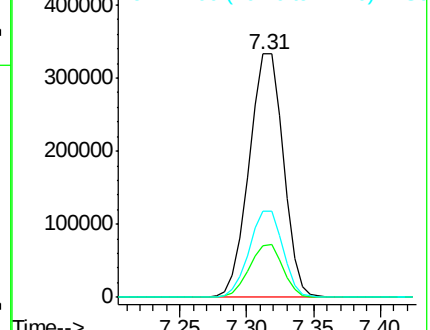
99 100

42 21.0 18.2 27.2

71 35.2 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 17.30 ng

RT: 9.36 min Scan# 1067

Delta R.T. 0.36 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Tgt Ion: 70 Resp: 54963

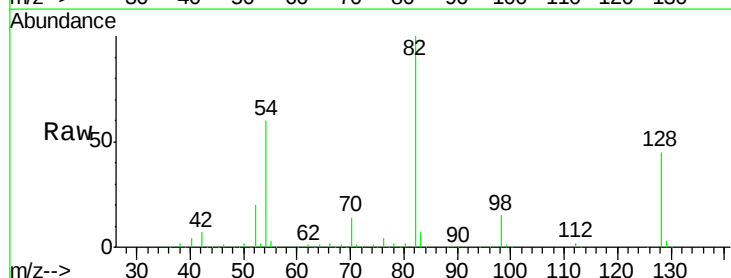
Ion Ratio Lower Upper

70 100

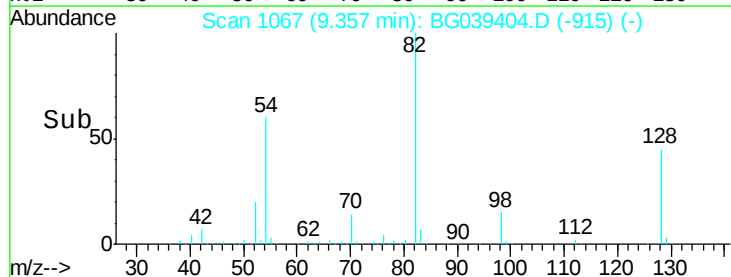
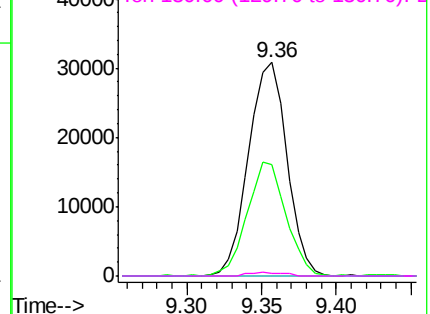
42 52.2 60.4 90.6#

101 0.0 7.5 11.3#

130 1.4 16.9 25.3#



Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

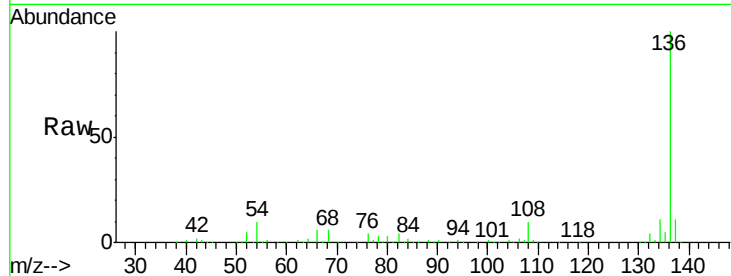




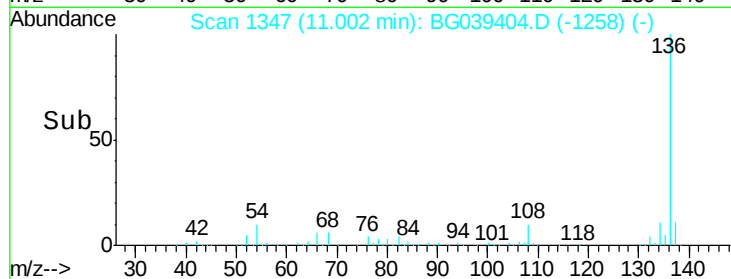
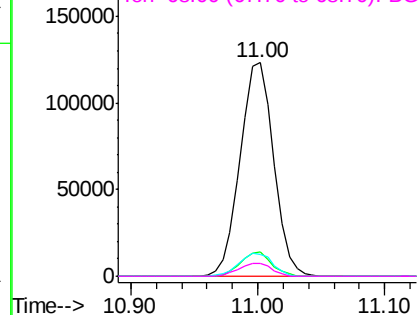
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.00 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BG039404.D
Acq: 8 Feb 2019 6:08

Instrument :
BNA_G
ClientSampled :
M-5S

Tot Ion:136	Resp:	225441
Ion Ratio	Lower	Upper
136	100	
137	11.3	9.1 13.7
54	10.5	9.4 14.2
68	6.3	4.2 6.4

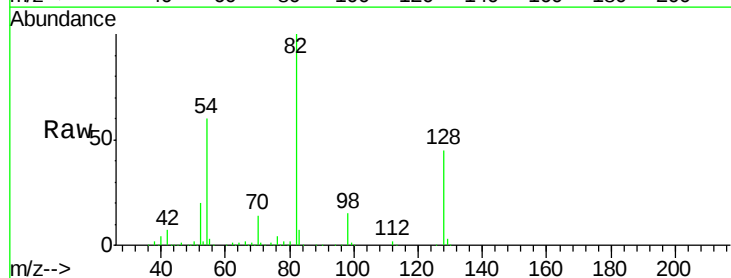


Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

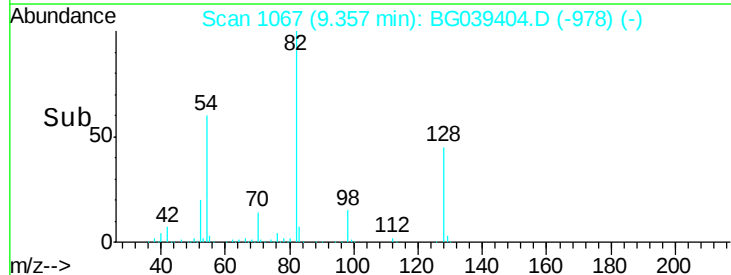
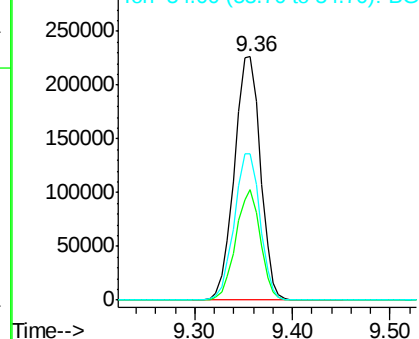


#23
Nitrobenzene-d5
Concen: 116.47 ng
RT: 9.36 min Scan# 1067
Delta R.T. -0.01 min
Lab File: BG039404.D
Acq: 8 Feb 2019 6:08

Tgt Ion: 82	Resp:	420312
Ion Ratio	Lower	Upper
82	100	
128	45.5	31.3 46.9
54	59.9	50.9 76.3



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

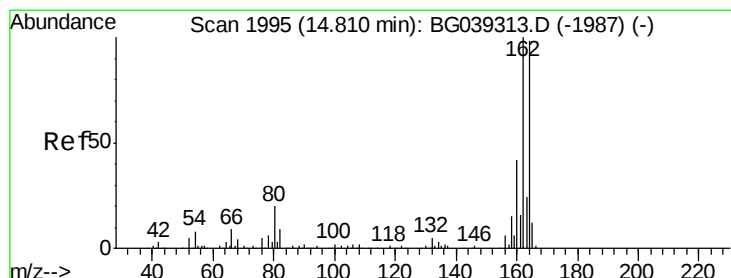
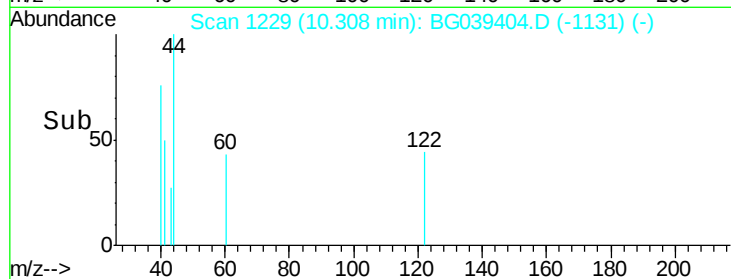
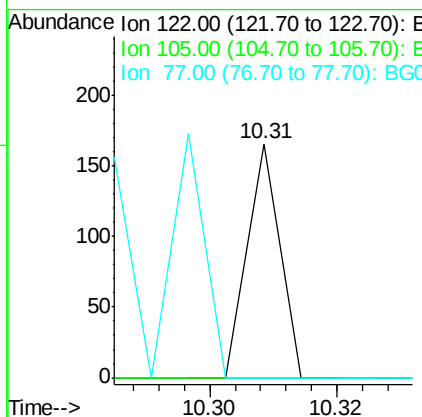
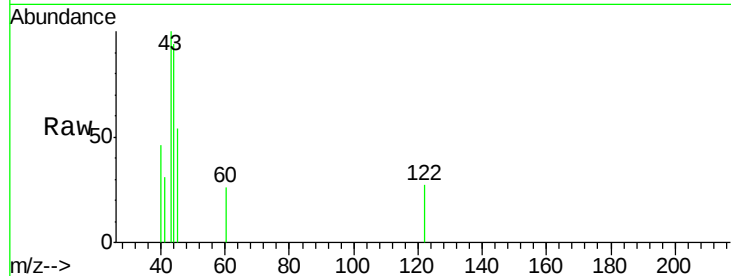




#32
Benzoic acid
Concen: 9.04 ng
RT: 10.31 min Scan# 1229
Delta R.T. 0.05 min
Lab File: BG039404.D
Acq: 8 Feb 2019 6:08

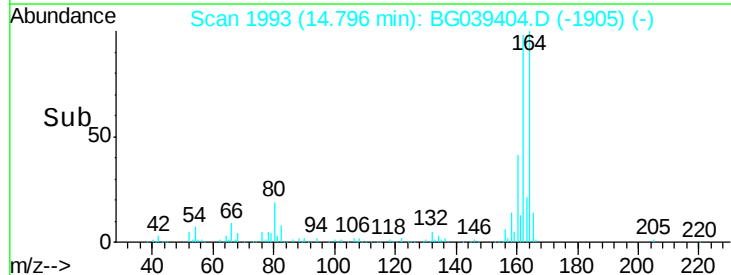
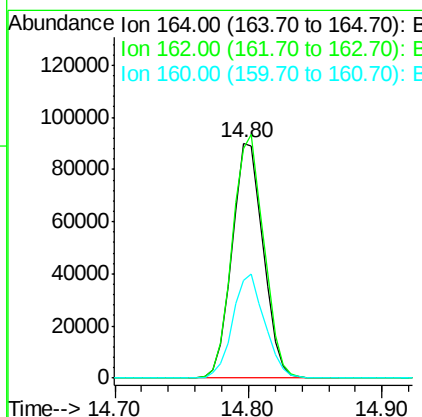
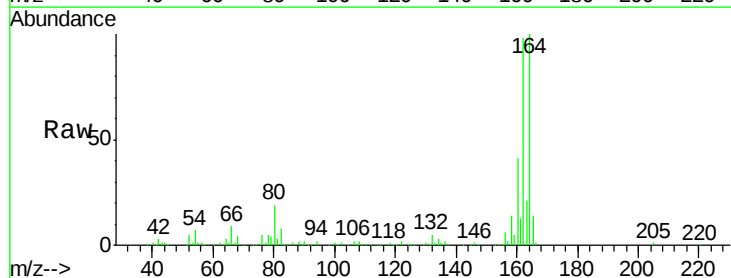
Instrument :
BNA_G
ClientSampleId :
M-5S

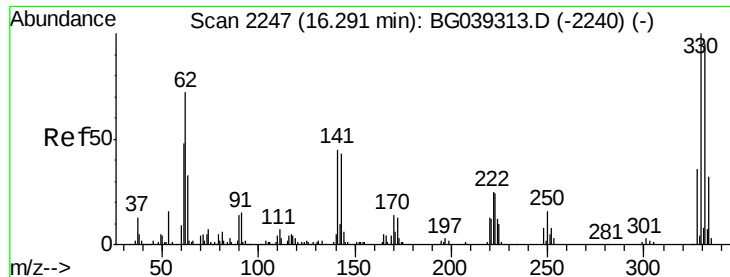
Tot Ion	Ratio	Lower	Upper
122	100		
105	0.0	101.8	141.8#
77	0.0	76.3	116.3#



#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.80 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BG039404.D
Acq: 8 Feb 2019 6:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.0	81.6	122.4
160	41.4	34.2	51.2





#42

2,4,6-Tribromophenol

Concen: 134.71 ng

RT: 16.28 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampleId :

M-5S

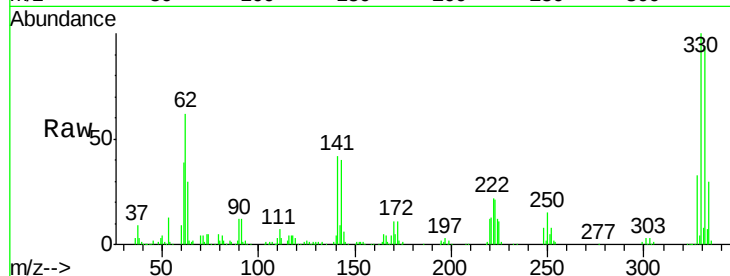
Tot Ion:330 Resp: 212701

Ion Ratio Lower Upper

330 100

332 96.5 75.7 113.5

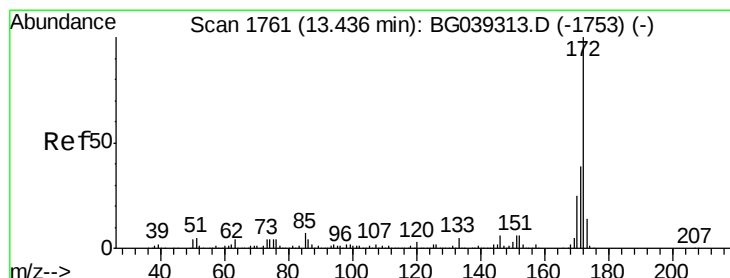
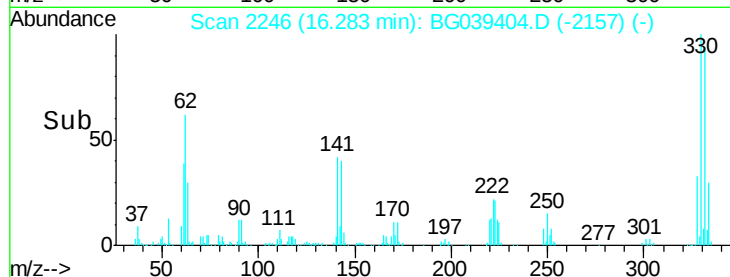
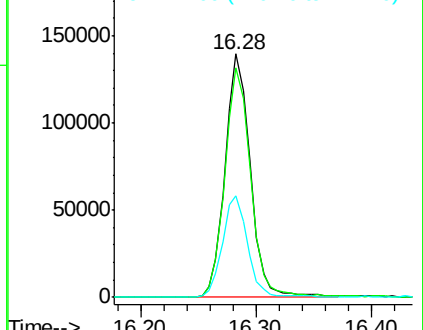
141 41.5 35.6 53.4



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 95.88 ng

RT: 13.43 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

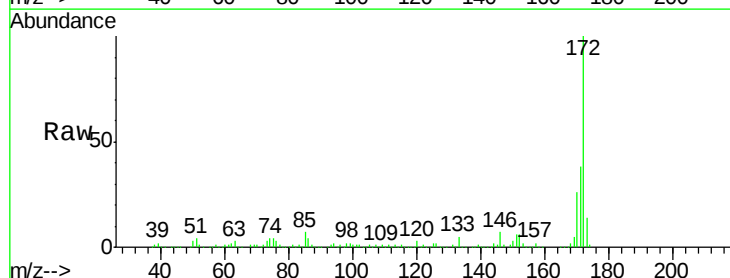
Tgt Ion:172 Resp: 979965

Ion Ratio Lower Upper

172 100

171 37.7 30.8 46.2

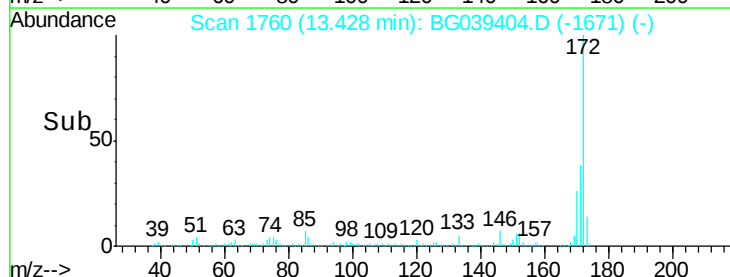
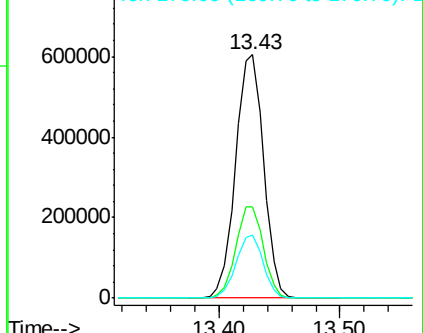
170 25.7 20.2 30.4

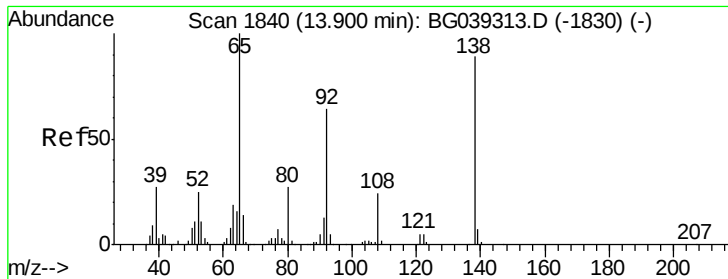


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

2-Nitroaniline

Concen: 8.31 ng

RT: 14.31 min Scan# 1910

Delta R.T. 0.41 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampleId :

M-5S

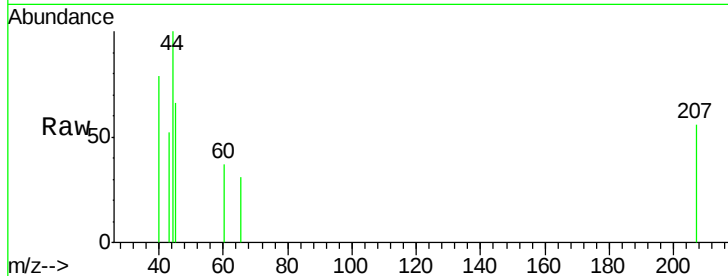
Tot Ion: 65 Resp: 59

Ion Ratio Lower Upper

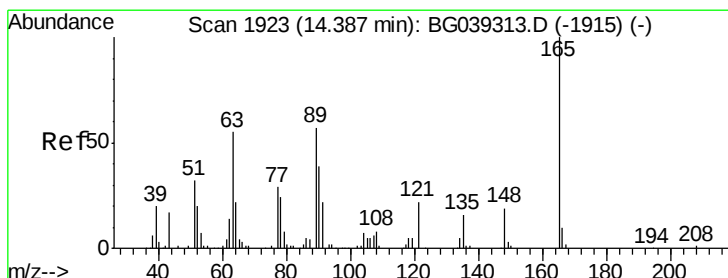
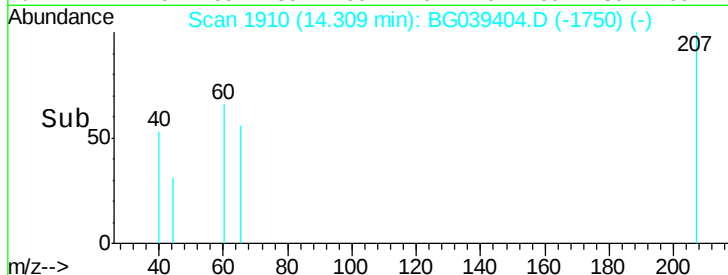
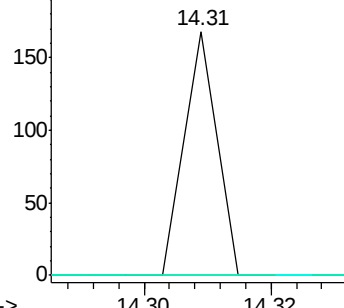
65 100

92 0.0 51.4 77.2#

138 0.0 71.4 107.2#



Abundance Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#51

2,6-Dinitrotoluene

Concen: 14.28 ng

RT: 14.80 min Scan# 1994

Delta R.T. 0.42 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

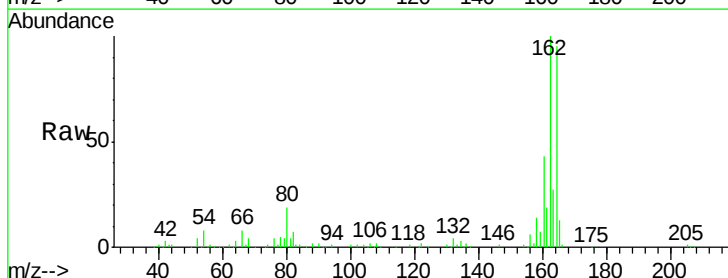
Tgt Ion: 165 Resp: 19790

Ion Ratio Lower Upper

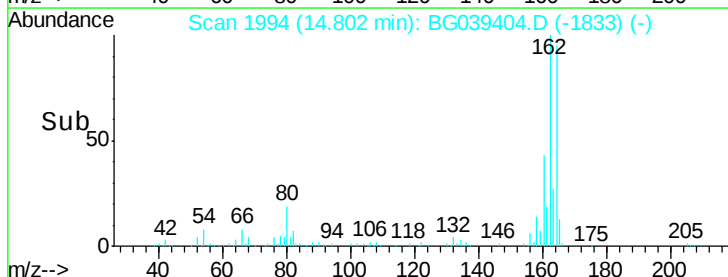
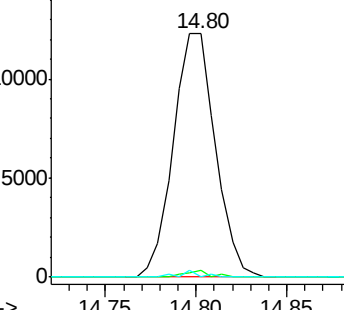
165 100

63 2.7 47.0 70.6#

89 0.0 45.8 68.8#



Abundance Ion 165.00 (164.70 to 165.70): BGC
Ion 63.00 (62.70 to 63.70): BGC
Ion 89.00 (88.70 to 89.70): BGC





#57

2,4-Dinitrotoluene

Concen: 13.67 ng

RT: 14.80 min Scan# 1994

Delta R.T. -0.36 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampleId :

M-5S

Tot Ion:165 Resp: 19790

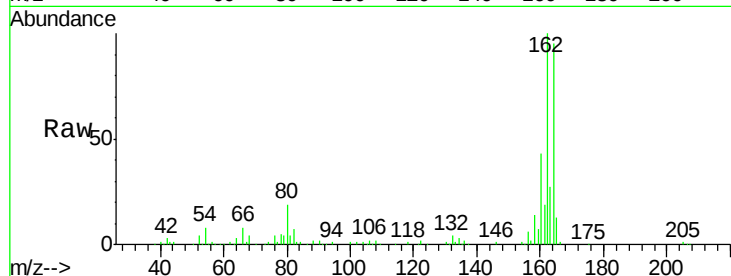
Ion Ratio Lower Upper

165 100

63 2.7 41.0 61.6#

89 0.0 64.6 96.8#

182 0.0 2.0 3.0#

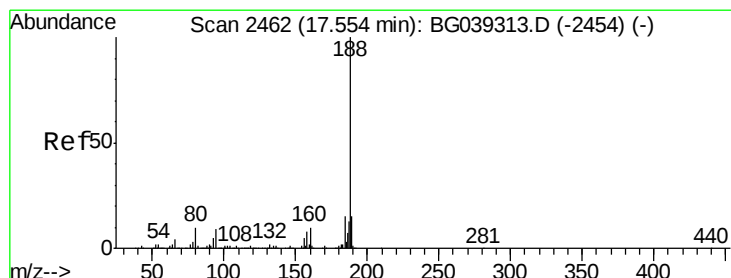
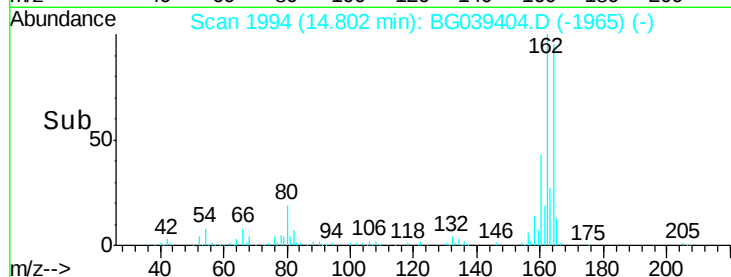
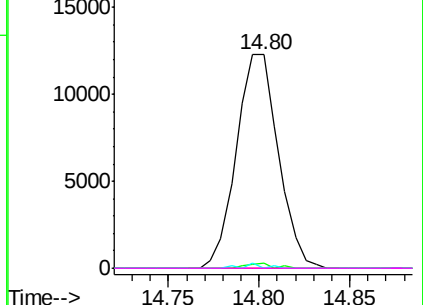


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.54 min Scan# 2460

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

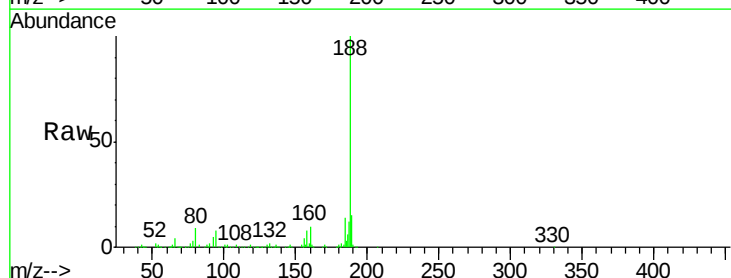
Tgt Ion:188 Resp: 355209

Ion Ratio Lower Upper

188 100

94 7.6 6.9 10.3

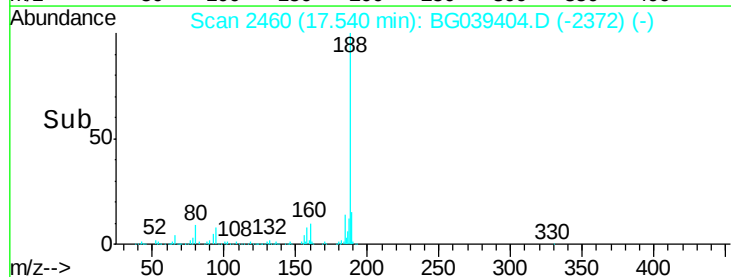
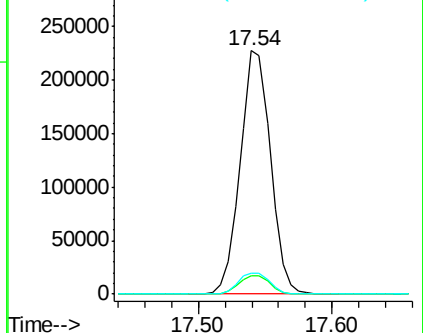
80 8.8 8.1 12.1

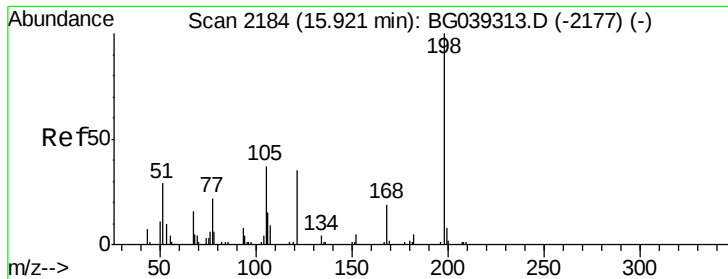


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#65

4,6-Dinitro-2-methylphenol

Concen: 4.93 ng

RT: 16.28 min Scan# 2245

Delta R.T. 0.36 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

BNA_G

ClientSampled :

M-5S

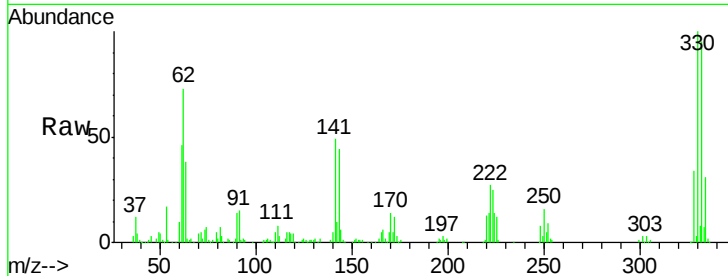
Tot Ion:198 Resp: 838

Ion Ratio Lower Upper

198 100

51 113.7 27.4 67.4#

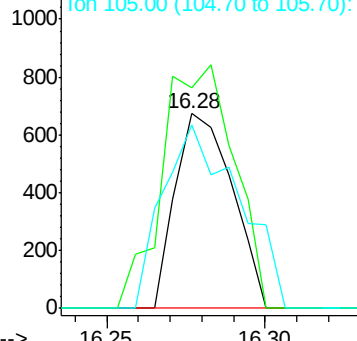
105 94.2 19.7 59.7#



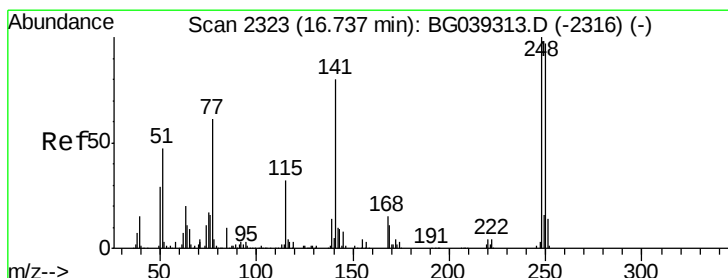
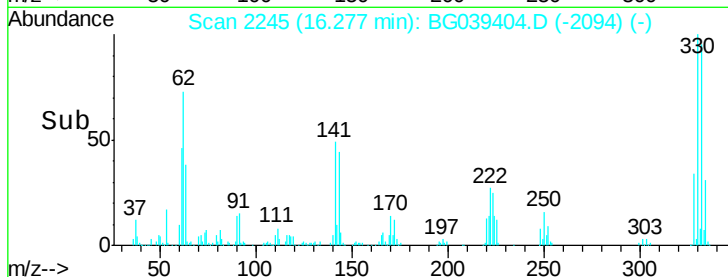
Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



Time-->



#67

4-Bromophenyl-phenylether

Concen: 4.11 ng

RT: 16.28 min Scan# 2246

Delta R.T. -0.45 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

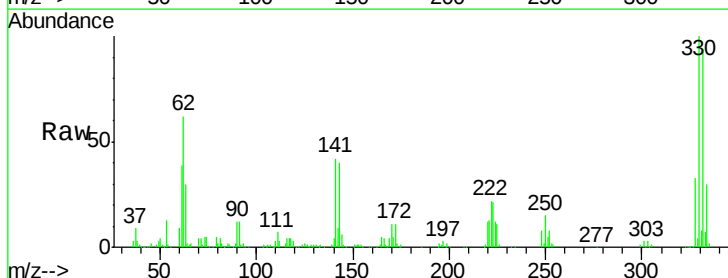
Tgt Ion:248 Resp: 16192

Ion Ratio Lower Upper

248 100

250 191.8 77.6 116.4#

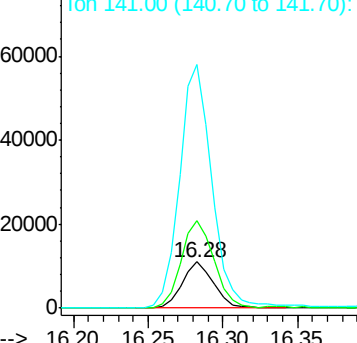
141 530.2 63.9 95.9#



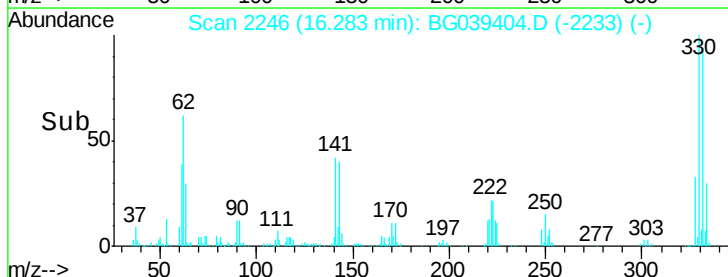
Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



Time-->

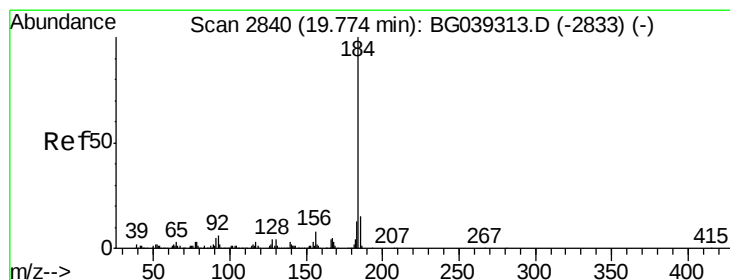
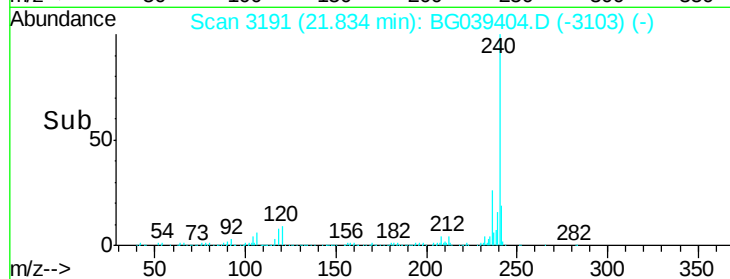
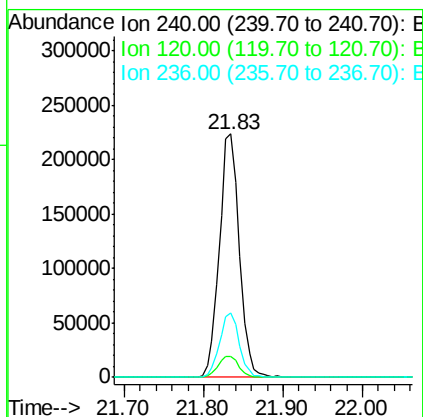
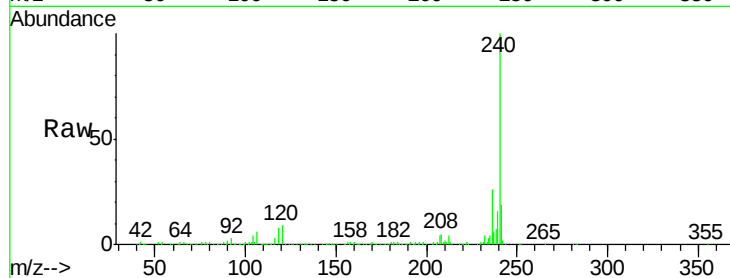




#76
 Chrvsene-d12
 Concen: 20.00 ng
 RT: 21.83 min Scan# 3191
 Delta R.T. -0.01 min
 Lab File: BG039404.D
 Acq: 8 Feb 2019 6:08

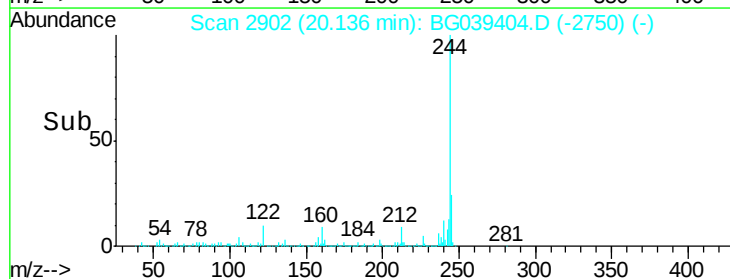
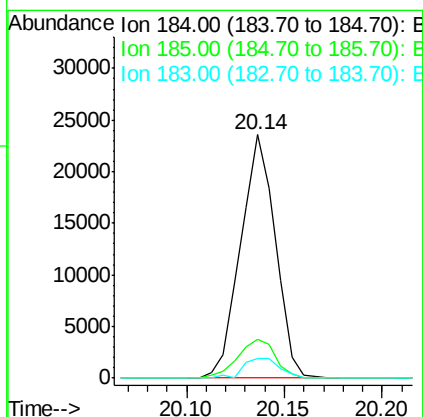
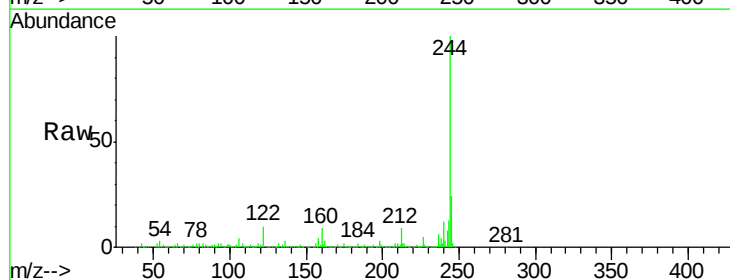
Instrument :
 BNA_G
 ClientSampleId :
 M-5S

Tot Ion:240 Resp: 391396
 Ion Ratio Lower Upper
 240 100
 120 8.7 7.0 10.6
 236 26.3 21.0 31.4



#77
 Benzidine
 Concen: 2.27 ng
 RT: 20.14 min Scan# 2902
 Delta R.T. 0.36 min
 Lab File: BG039404.D
 Acq: 8 Feb 2019 6:08

Tgt Ion:184 Resp: 29083
 Ion Ratio Lower Upper
 184 100
 185 15.9 12.2 18.2
 183 7.9 10.6 15.8#





#79

Terphenyl-d14

Concen: 88.08 ng

RT: 20.14 min Scan# 2902

Delta R.T. -0.01 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Instrument :

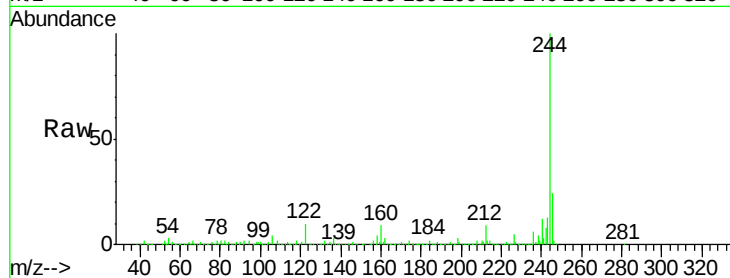
BNA_G

ClientSampleId :

M-5S

Tot Ion:244 Resp: 1628720

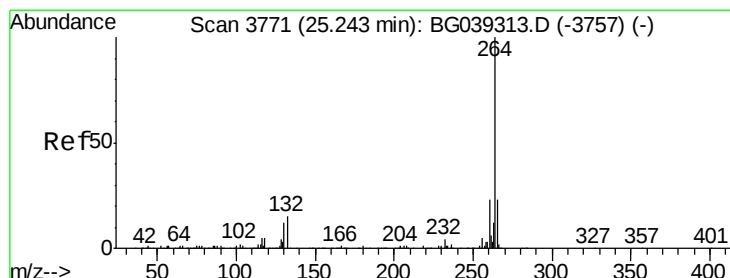
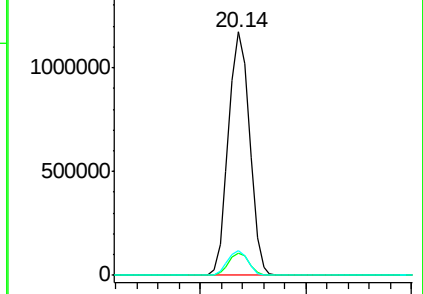
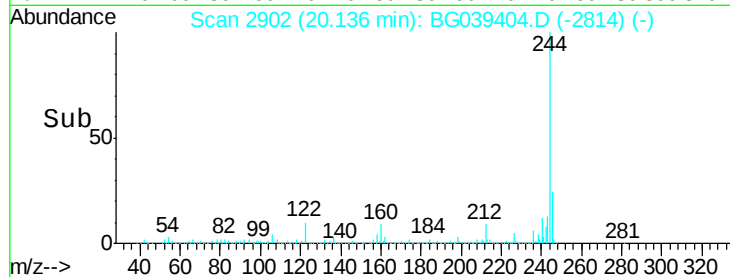
Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.3	10.9
122	10.3	8.4	12.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#87

Perylene-d12

Concen: 20.00 ng

RT: 25.22 min Scan# 3767

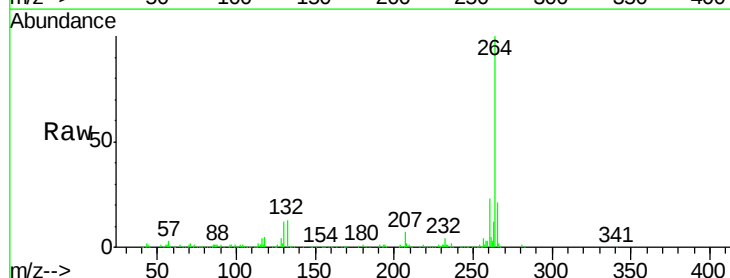
Delta R.T. -0.03 min

Lab File: BG039404.D

Acq: 8 Feb 2019 6:08

Tgt Ion:264 Resp: 365104

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.2	27.4
265	21.4	18.5	27.7



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

