

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\
 Data File : BG025137.D
 Acq On : 13 Dec 2016 5:57
 Operator : UM/SJ
 Sample : H5992-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P035-SS002-1824-03

Manual Integrations
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Quant Time: Dec 13 07:07:19 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 13 06:23:40 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	120601	20.00	ng/ul	0.00
18) Naphthalene-d8	11.07	136	493766	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	361772	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	654103	20.00	ng/ul	0.00
75) Chrysene-d12	21.91	240	802083	20.00	ng/ul	0.01
83) Perylene-d12	25.39	264	799818m	20.00	ng/ul	0.07

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.59	96	12383	5.30	ng/uL	0.00
5) Phenol-d5	7.39	99	283664	27.26	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.55	67	180312	28.01	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	194265	26.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.95	113	235241	27.06	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	105920	30.29	ng/ul	0.00
22) 2-Nitrophenol-d4	10.15	143	124048	28.46	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.69	165	243973	29.10	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	84895	10.30	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	719960	28.93	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	868239	31.85	ng/ul	0.00
51) 4-Nitrophenol-d4	15.07	143	113058	26.44	ng/ul	0.01
57) Fluorene-d10	15.85	176	654839	27.96	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	115235	28.49	ng/ul	0.00
70) Anthracene-d10	17.71	188	944642	34.22	ng/ul	0.00
76) Pyrene-d10	19.98	212	1063977	32.21	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.15	264	1165705m	35.97	ng/ul	0.07

Target Compounds

						Ovalue
6) Phenol	7.42	94	51184	4.79	ng/ul	95
28) Naphthalene	11.12	128	820608	35.75	ng/ul	96
34) 2-Methylnaphthalene	12.71	142	433746	23.95	ng/ul	100
40) 1,1'-Biphenyl	13.70	154	178345	8.13	ng/ul	99
44) Dimethylphthalate	14.30	163	109613	4.48	ng/ul#	95
49) Acenaphthene	14.93	153	537077	29.59	ng/ul	99
53) Dibenzofuran	15.26	168	652396	22.72	ng/ul	100
58) Fluorene	15.91	166	415522	17.78	ng/ul	95
64) N-Nitrosodiphenylamine	16.10	169	54557	3.24	ng/ul	90
69) Phenanthrene	17.65	178	1746302	55.94	ng/ul	97
71) Anthracene	17.74	178	495131	15.43	ng/ul	98
72) Carbazole	18.01	167	194606	7.27	ng/ul	97
73) Di-n-butylphthalate	18.53	149	88365	2.61	ng/ul#	92
74) Fluoranthene	19.65	202	1498674	40.40	ng/ul	99
77) Pyrene	20.01	202	1324904	34.36	ng/ul	99
80) Benzo(a)anthracene	21.89	228	919945	22.08	ng/ul#	90
81) Bis(2-ethylhexyl)phthalate	21.74	149	624991	30.08	ng/ul#	96
82) Chrysene	21.96	228	1114630	28.60	ng/ul#	87
85) Benzo(b)fluoranthene	24.28	252	1368996m	34.52	ng/ul	
86) Benzo(k)fluoranthene	24.34	252	463122m	12.28	ng/ul	
88) Benzo(a)pyrene	25.23	252	1038645m	27.24	ng/ul	
89) Indeno(1,2,3-cd)pyrene	29.39	276	463075m	9.77	ng/ul	
91) Benzo(g,h,i)perylene	30.64	276	580930m	14.69	ng/ul	

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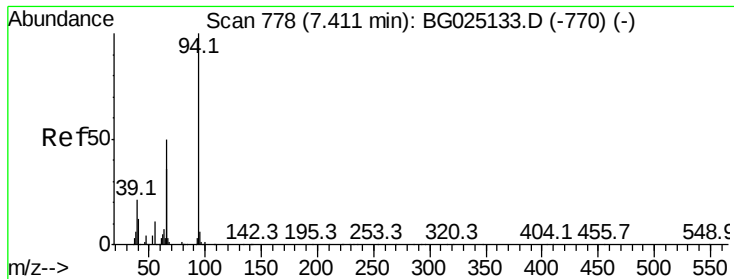
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#6

Phenol

Concen: 4.79 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

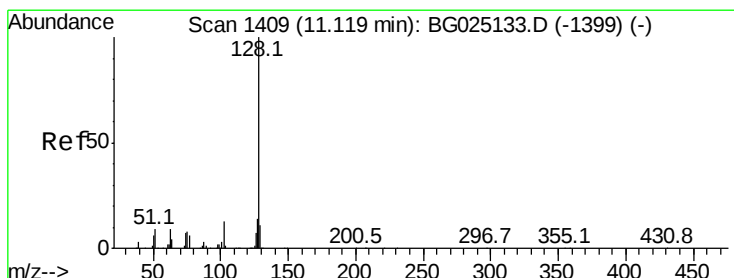
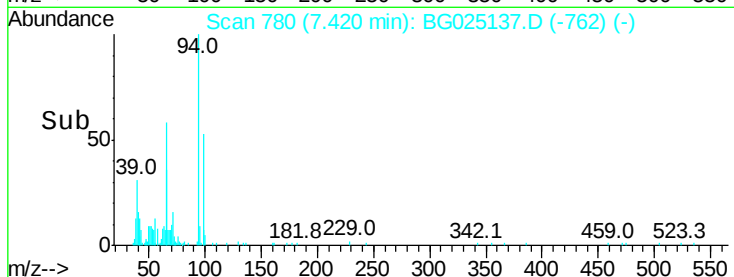
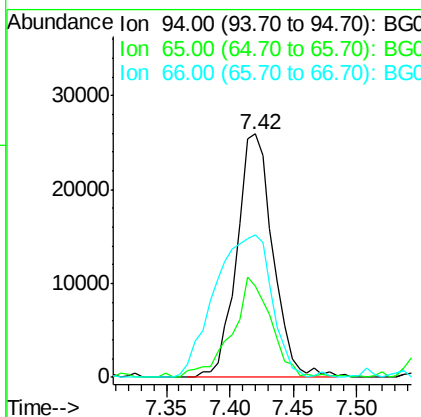
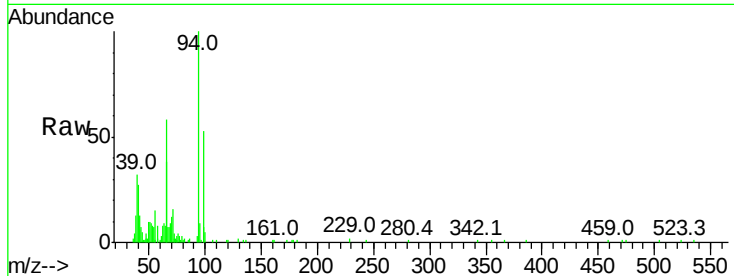
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	94	Resp:	51184
Ion Ratio	Lower	Upper	
94	100		
65	37.6	26.8	40.2
66	58.5	44.4	66.6

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#28

Naphthalene

Concen: 35.75 ng/ul

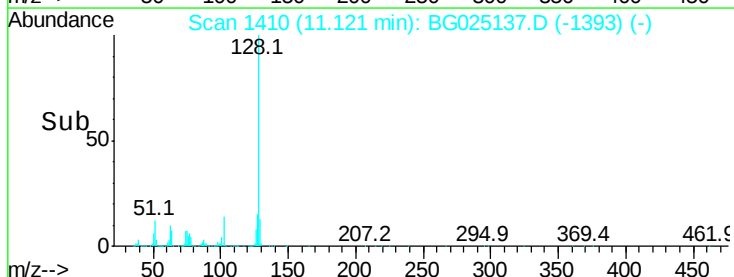
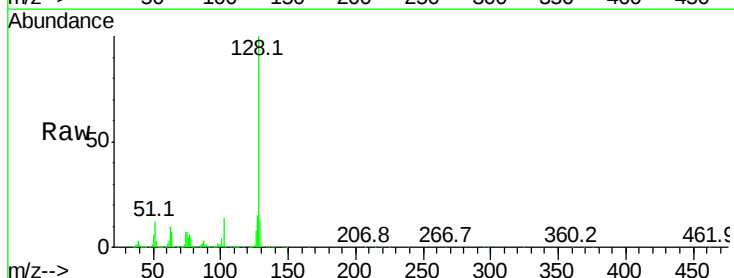
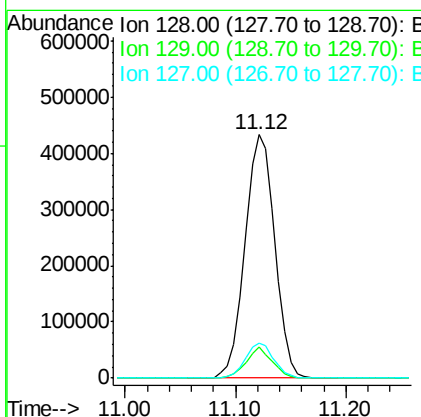
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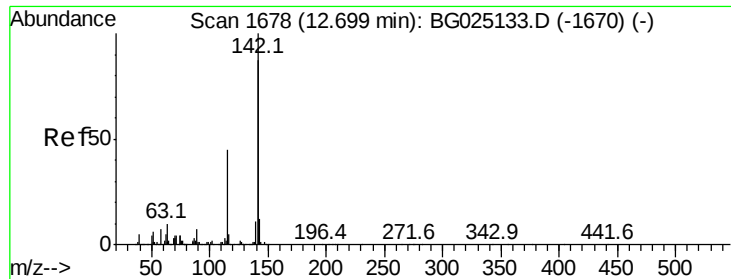
Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	128	Resp:	820608
Ion Ratio	Lower	Upper	
128	100		
129	12.9	9.4	14.2
127	14.6	10.3	15.5





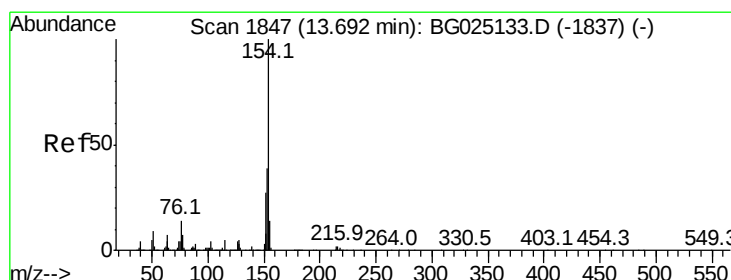
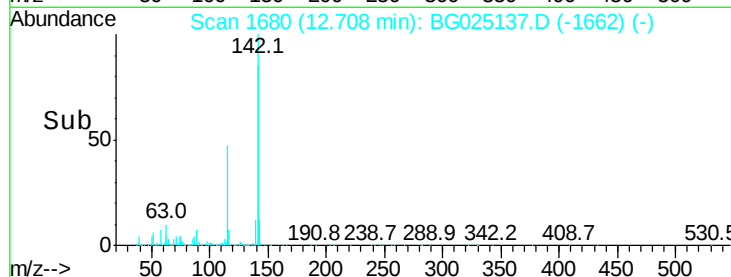
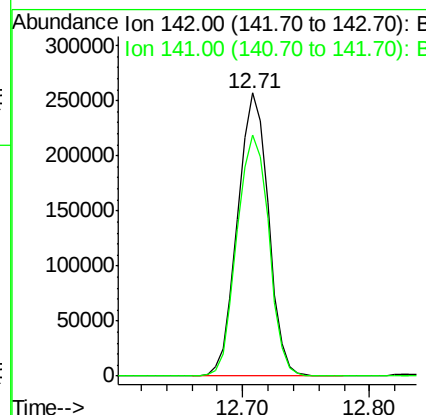
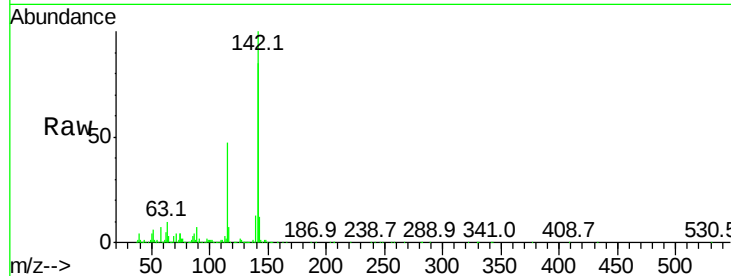
#34
 2-Methylnaphthalene
 Concen: 23.95 ng/ul
 RT: 12.71 min Scan# 1680
 Delta R.T. 0.01 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

Instrument :
 BNA_G
 ClientSampleId :
 P035-SS002-1824-03

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.3	68.6	102.8

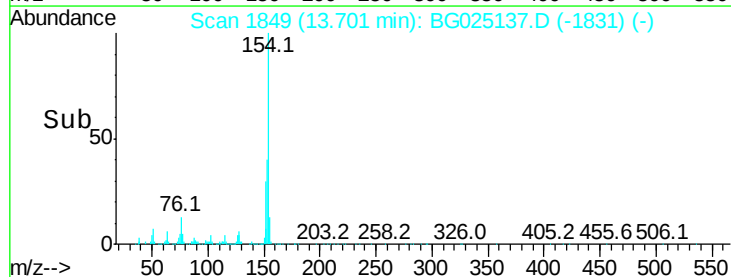
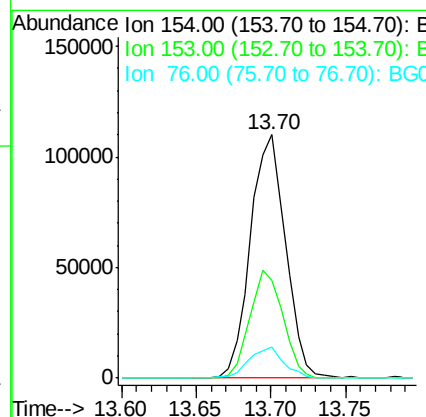
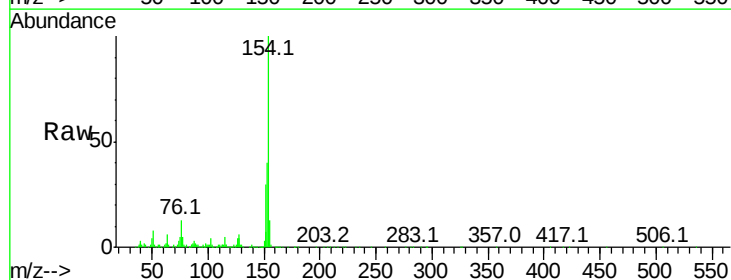
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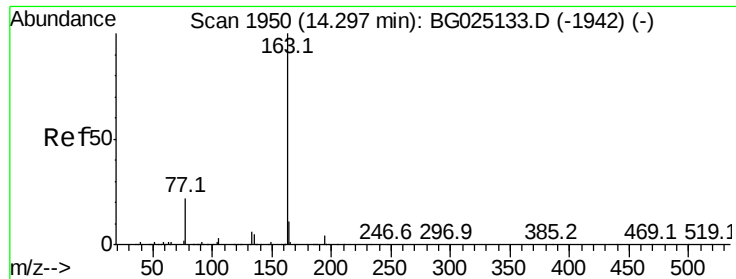
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#40
 1,1'-Biphenyl
 Concen: 8.13 ng/ul
 RT: 13.70 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.2	32.2	48.2
76	12.8	9.6	14.4





#44

Dimethylphthalate

Concen: 4.48 ng/ul

RT: 14.30 min Scan# 1951

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

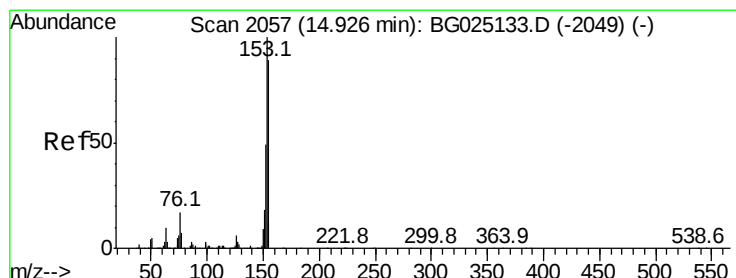
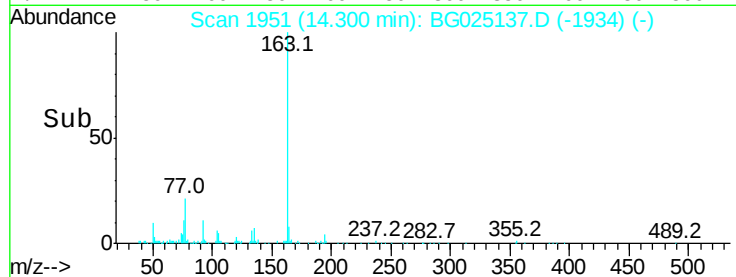
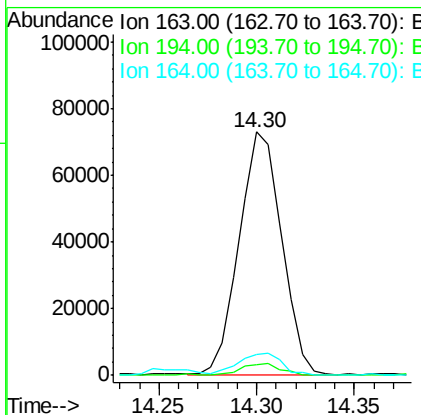
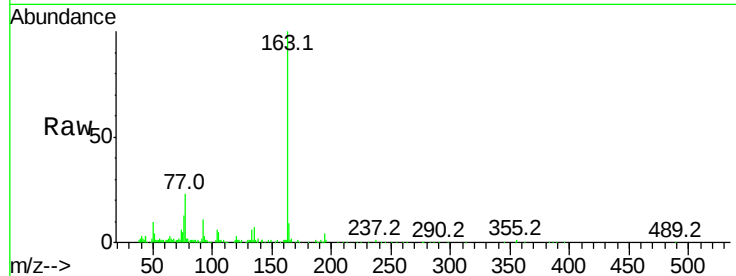
ClientSampleId :

P035-SS002-1824-03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		109613		
194	4.4		3.4	5.0	
164	8.7		9.0	13.4	

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#49

Acenaphthene

Concen: 29.59 ng/ul

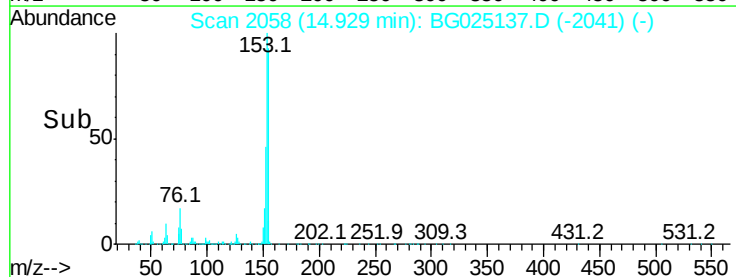
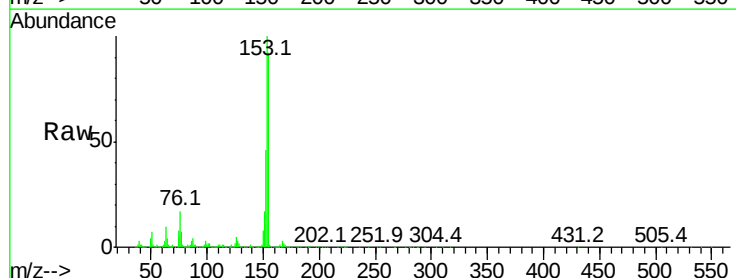
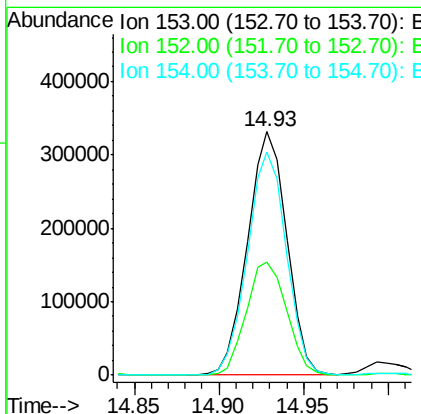
RT: 14.93 min Scan# 2058

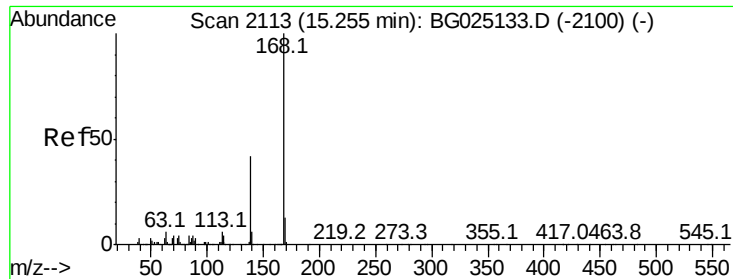
Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
153	100		537077		
152	46.3		36.5	54.7	
154	91.7		72.3	108.5	





#53

Dibenzenofuran

Concen: 22.72 ng/ul

RT: 15.26 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

Tot Ion:168 Resp: 652396

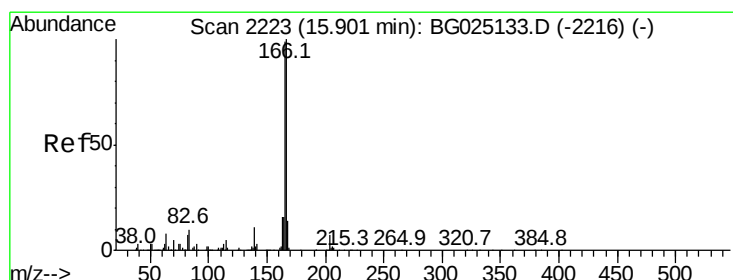
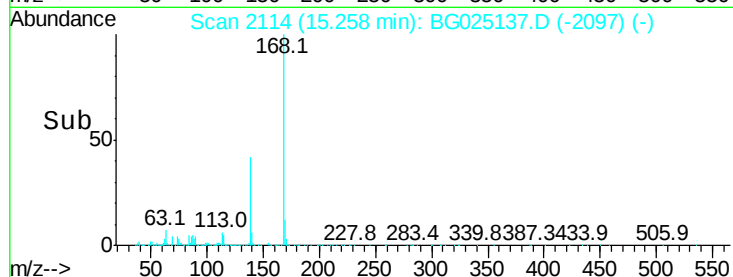
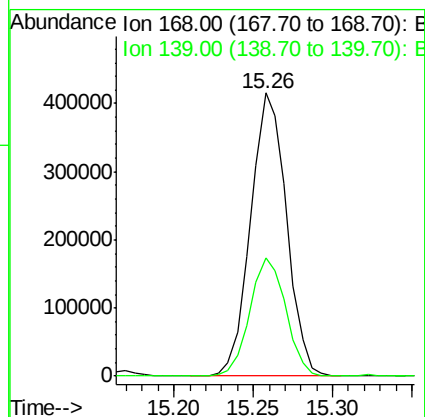
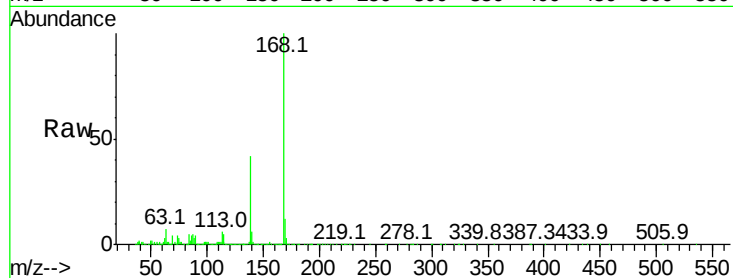
Ion Ratio Lower Upper

168 100

139 42.0 33.8 50.8

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#58

Fluorene

Concen: 17.78 ng/ul

RT: 15.91 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

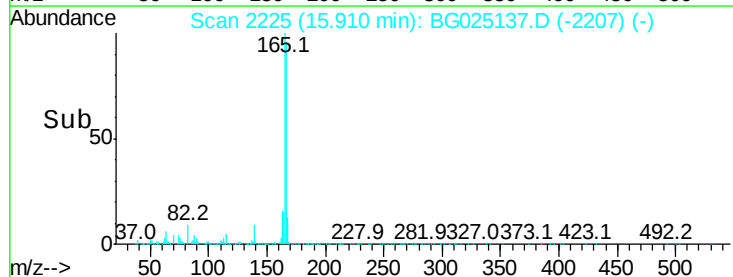
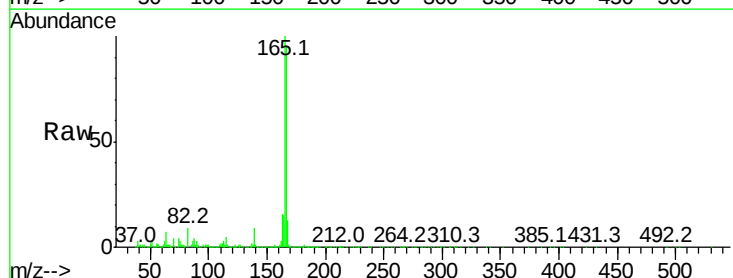
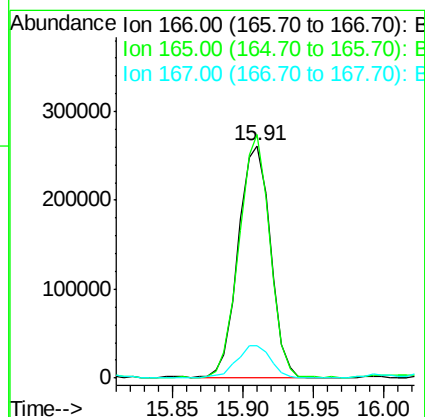
Tgt Ion:166 Resp: 415522

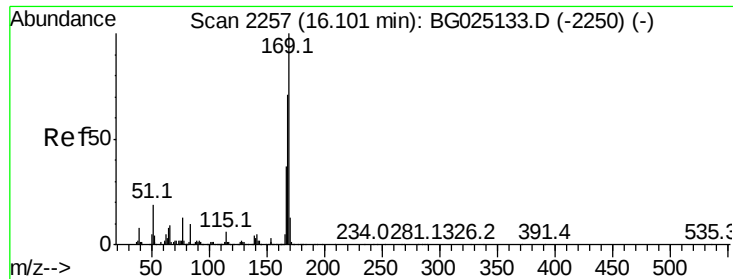
Ion Ratio Lower Upper

166 100

165 104.7 79.7 119.5

167 14.0 11.4 17.2





#64

N-Nitrosodiphenylamine

Concen: 3.24 ng/ul

RT: 16.10 min Scan# 2258

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

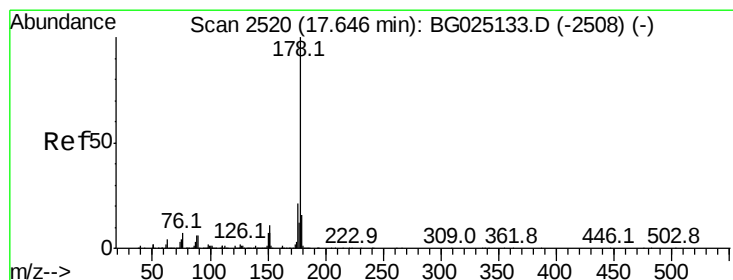
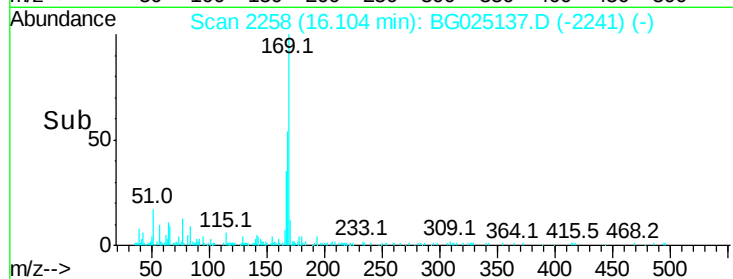
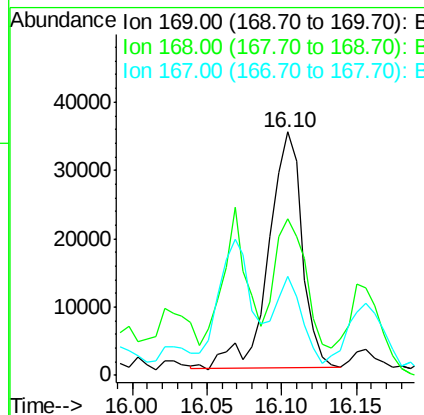
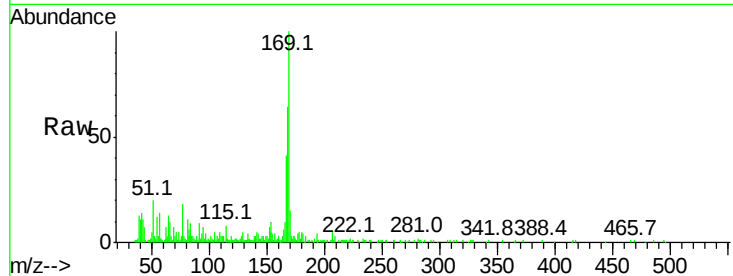
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	169	Resp:	54557
Ion Ratio	Lower	Upper	
169	100		
168	64.4	59.1	88.7
167	40.7	29.7	44.5

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#69

Phenanthrene

Concen: 55.94 ng/ul

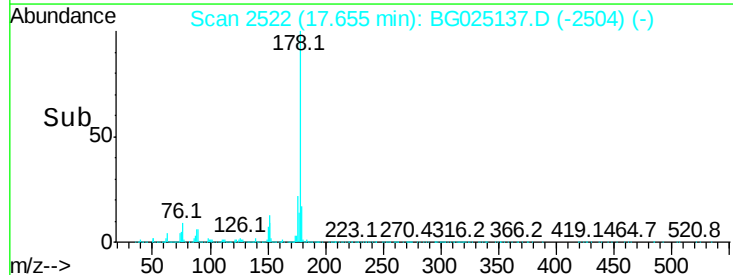
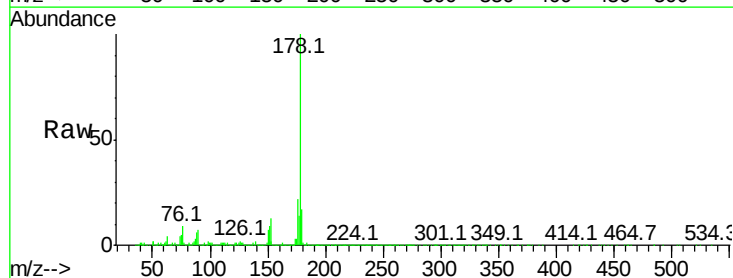
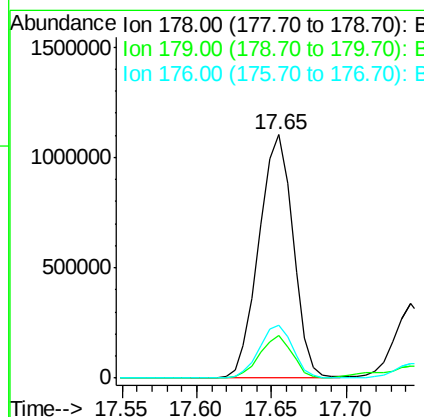
RT: 17.65 min Scan# 2522

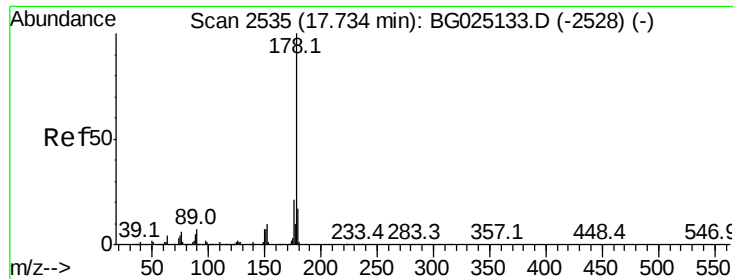
Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	178	Resp:	1746302
Ion Ratio	Lower	Upper	
178	100		
179	17.4	12.4	18.6
176	21.6	16.5	24.7





#71

Anthracene

Concen: 15.43 ng/ul

RT: 17.74 min Scan# 2537

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

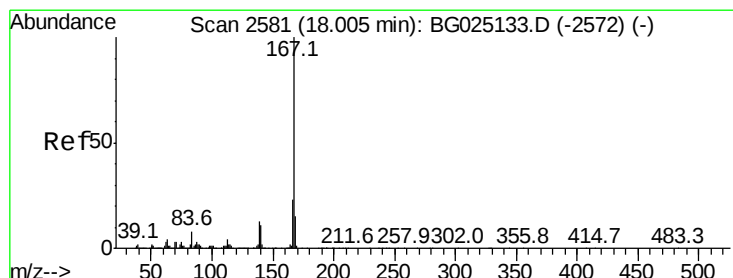
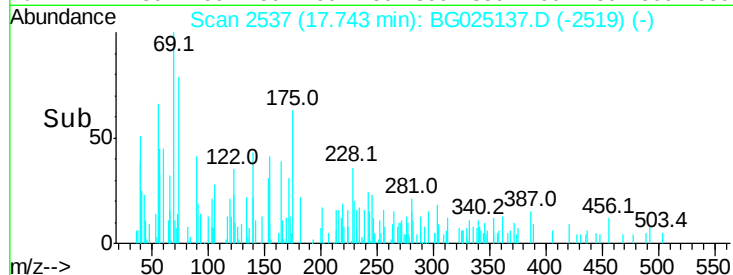
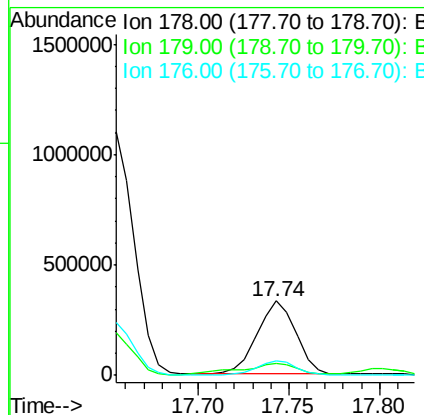
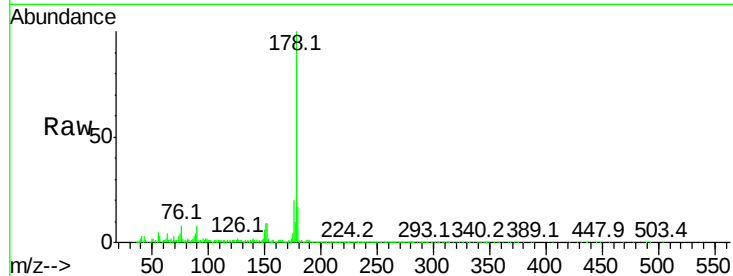
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	178	Resp:	495131
Ion Ratio	Lower	Upper	
178	100		
179	16.9	12.6	19.0
176	20.2	15.9	23.9

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#72

Carbazole

Concen: 7.27 ng/ul

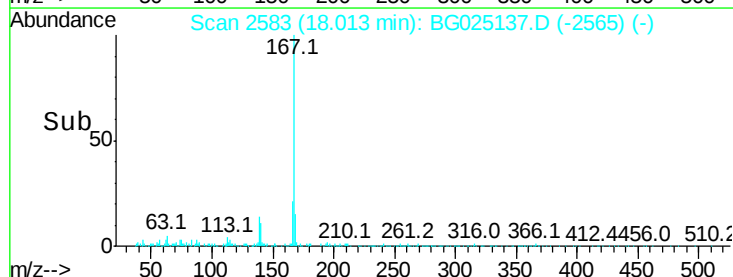
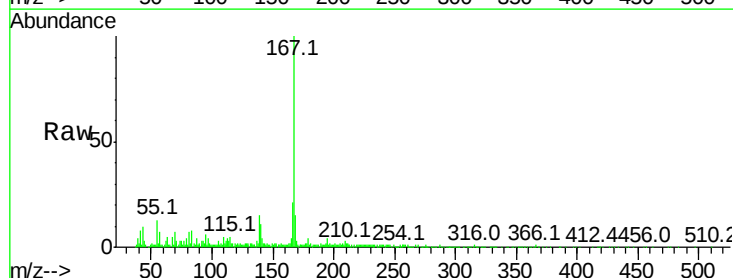
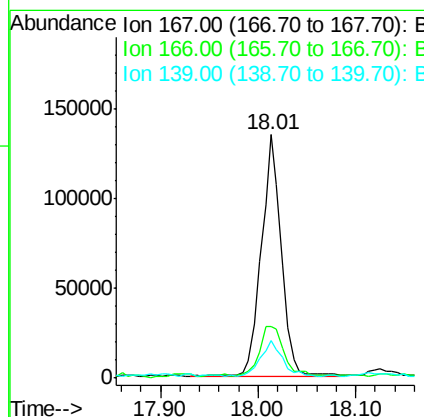
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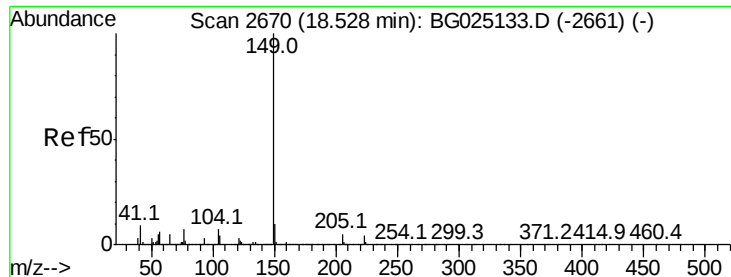
Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	167	Resp:	194606
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.9	26.9
139	15.3	10.5	15.7





#73

Di-n-butylphthalate

Concen: 2.61 ng/ul

RT: 18.53 min Scan# 2671

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

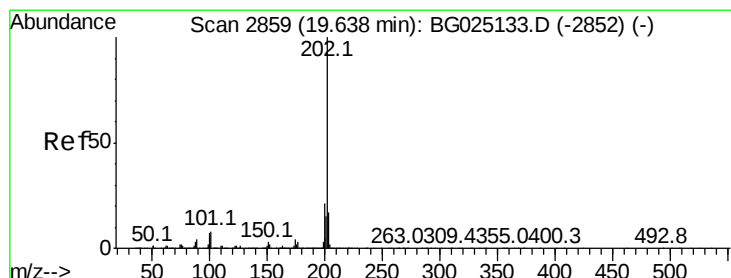
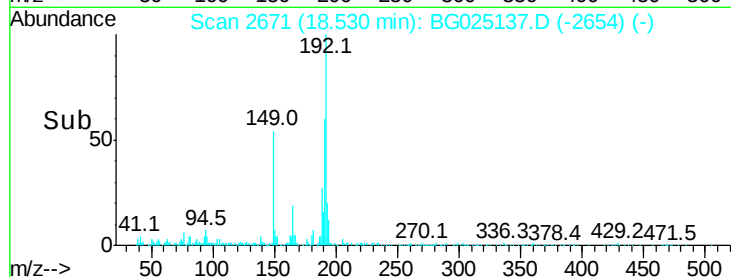
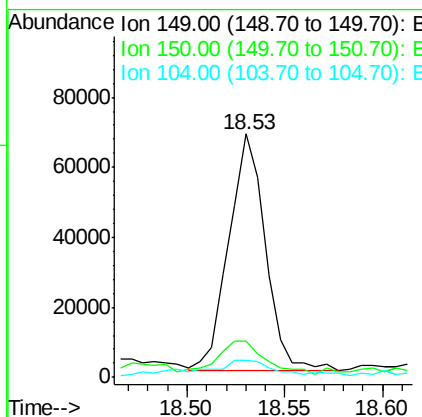
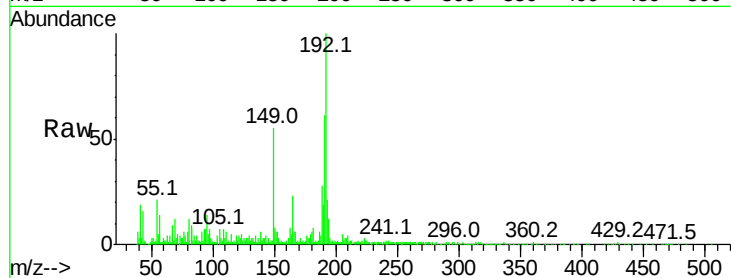
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	149	Resp:	88365
Ion Ratio	Lower	Upper	
149	100		
150	14.7	7.9	11.9#
104	7.0	5.8	8.8

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#74

Fluoranthene

Concen: 40.40 ng/ul

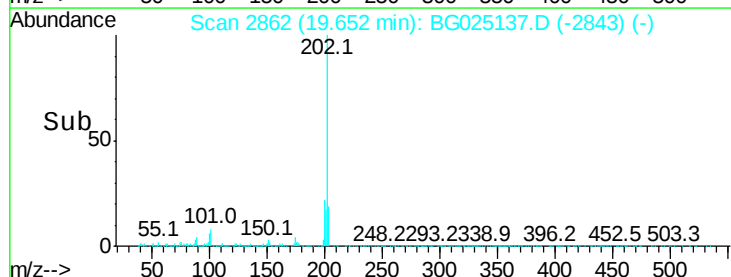
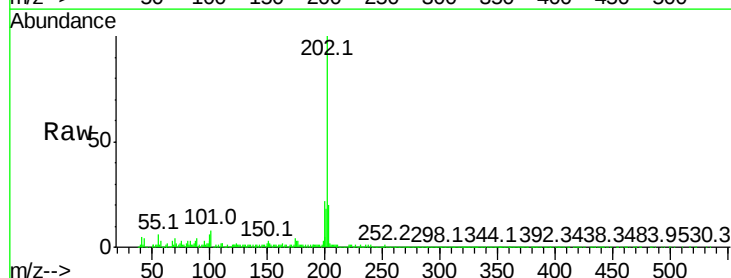
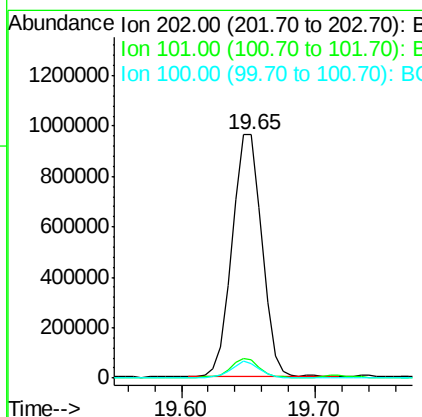
RT: 19.65 min Scan# 2862

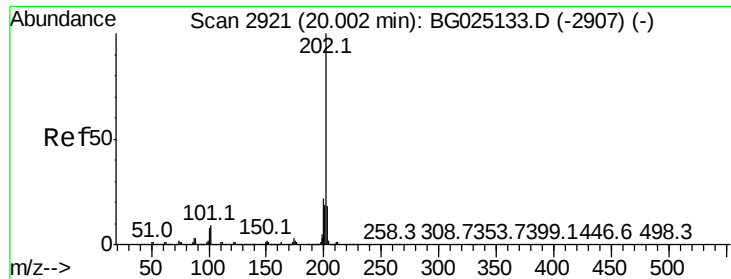
Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	202	Resp:	1498674
Ion Ratio	Lower	Upper	
202	100		
101	7.7	6.2	9.2
100	5.9	5.2	7.8





#77

Pvrene

Concen: 34.36 ng/ul

RT: 20.01 min Scan# 2923

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

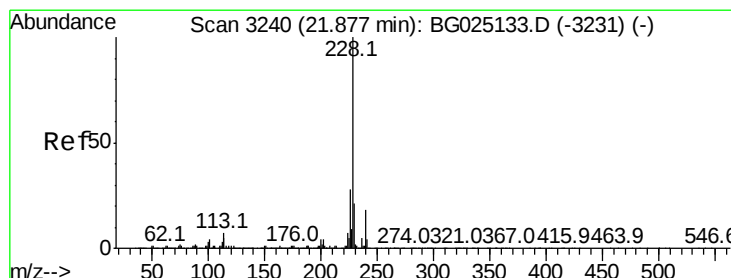
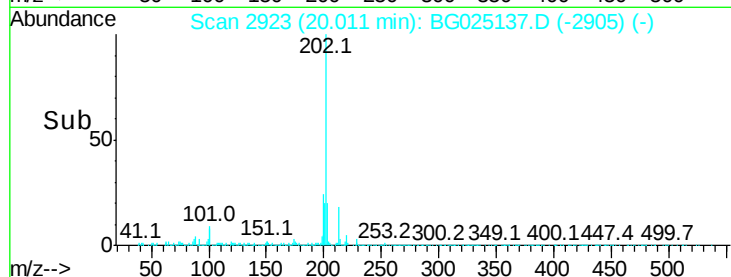
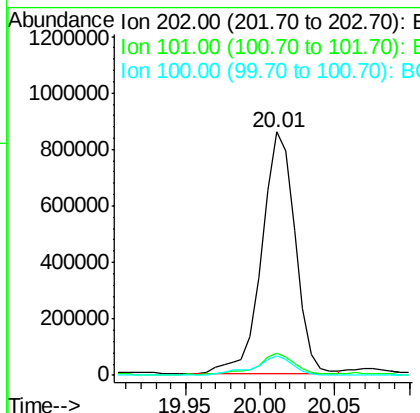
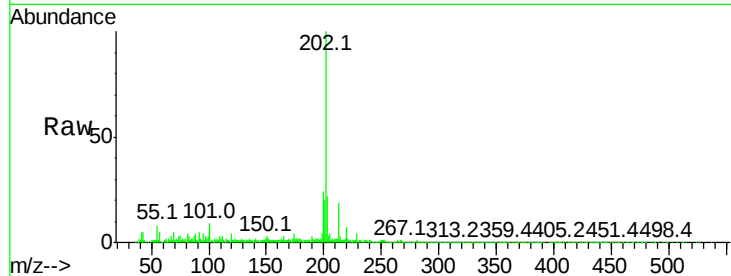
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	202	Resp:	1324904
Ion Ratio	Lower	Upper	
202	100		
101	9.1	6.9	10.3
100	8.1	6.6	10.0

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#80

Benzo(a)anthracene

Concen: 22.08 ng/ul

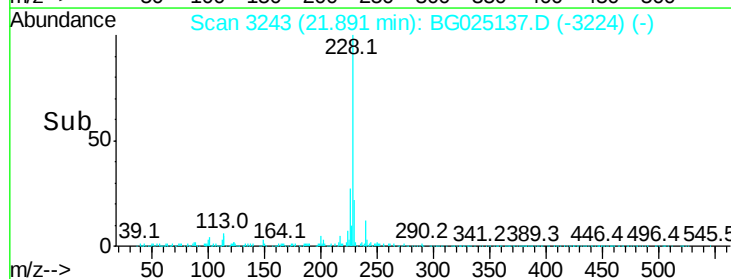
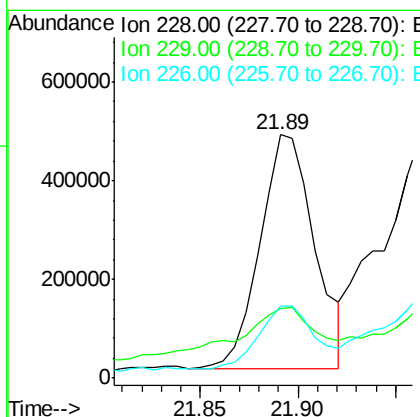
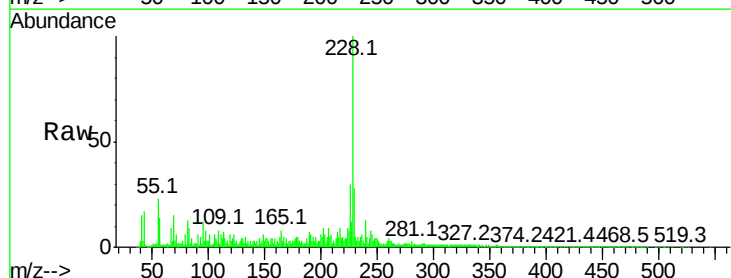
RT: 21.89 min Scan# 3243

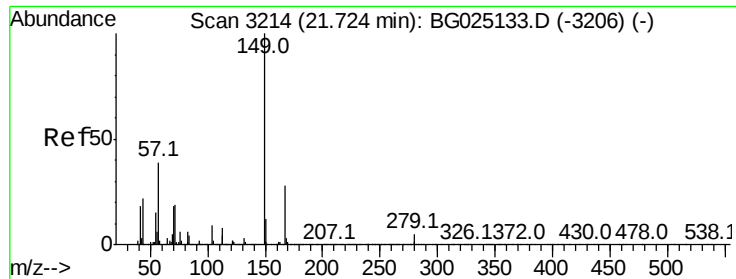
Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	228	Resp:	919945
Ion Ratio	Lower	Upper	
228	100		
229	28.4	16.3	24.5#
226	29.7	21.9	32.9





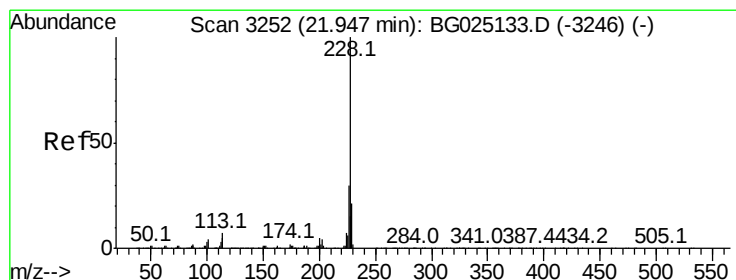
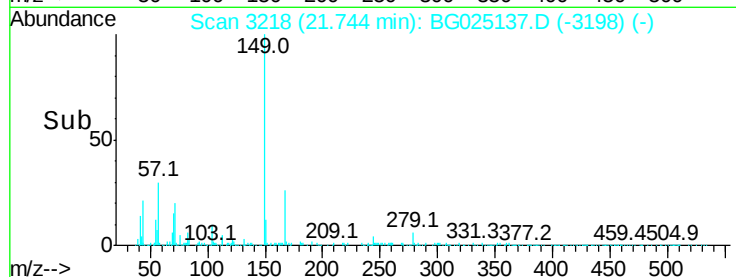
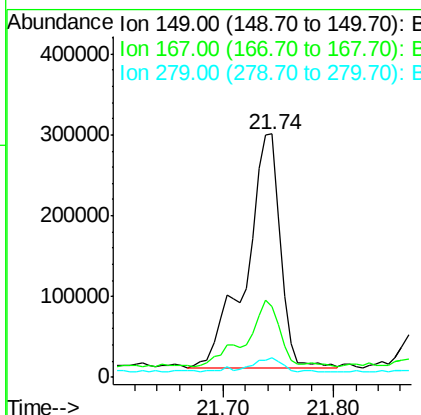
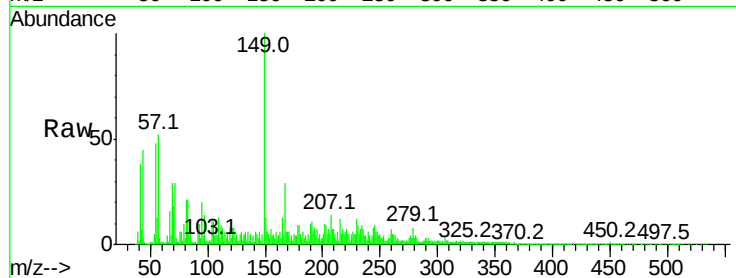
#81
 Bis(2-ethylhexyl)phthalate
 Concen: 30.08 ng/ul
 RT: 21.74 min Scan# 3218
 Delta R.T. 0.02 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

Instrument :
 BNA_G
 ClientSampleId :
 P035-SS002-1824-03

Tot Ion	Ratio	Lower	Upper
149	100		
167	28.9	21.8	32.8
279	8.2	4.5	6.7

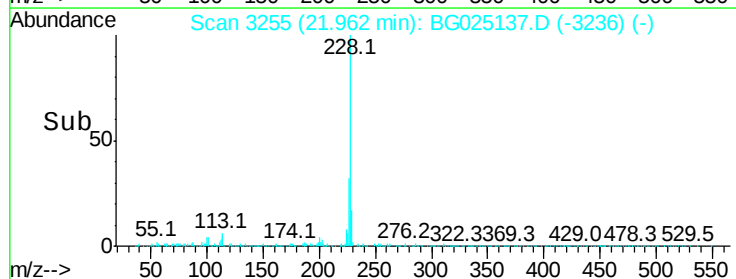
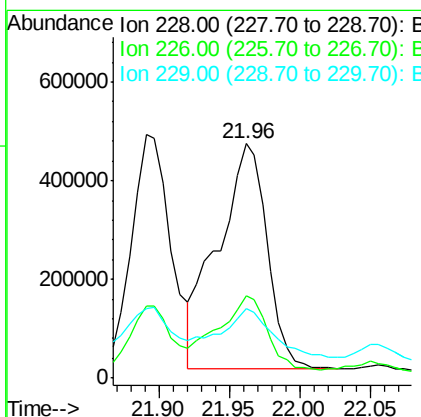
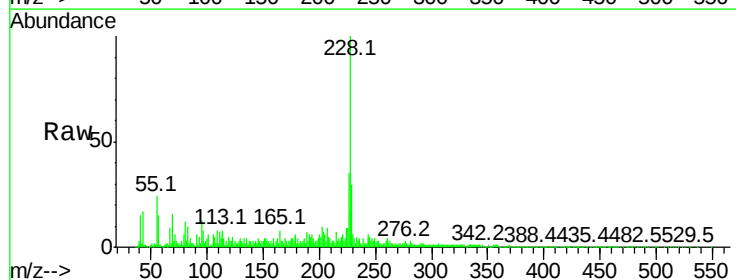
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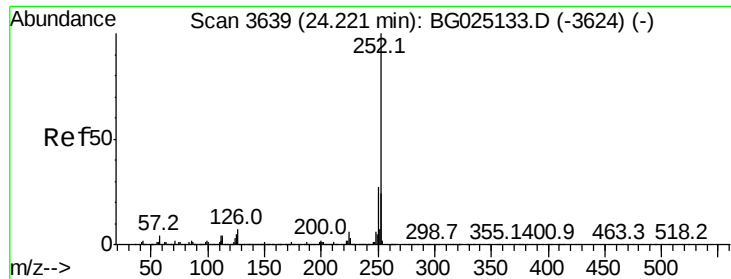
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#82
 Chrysene
 Concen: 28.60 ng/ul
 RT: 21.96 min Scan# 3255
 Delta R.T. 0.01 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.0	24.0	36.0
229	29.8	16.9	25.3





#85

Benzo(b)fluoranthene

Concen: 34.52 ng/ul m

RT: 24.28 min Scan# 3649

Delta R.T. 0.06 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

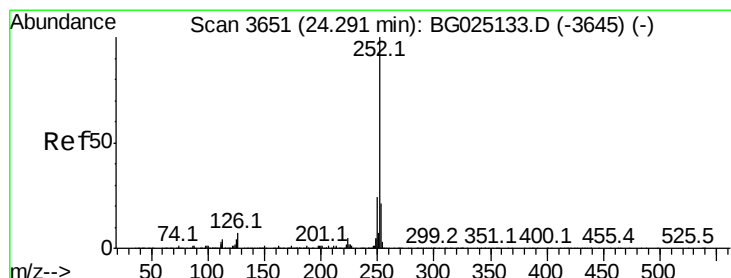
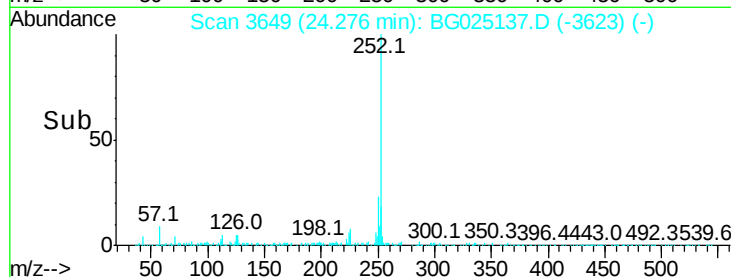
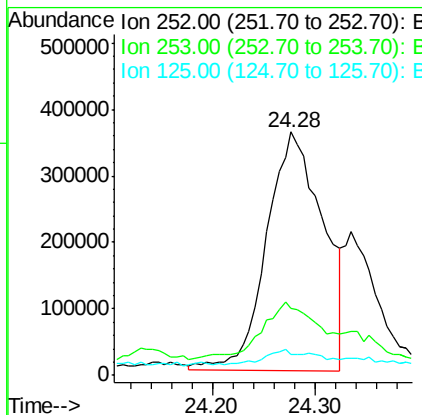
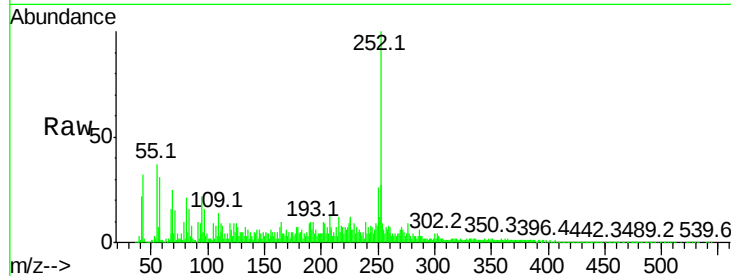
ClientSampleId :

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Tot Ion:	252	Resp:	1368996
Ion Ratio	Lower	Upper	
252	100		
253	27.4	17.7	26.5#
125	8.6	4.0	6.0#

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#86

Benzo(k)fluoranthene

Concen: 12.28 ng/ul m

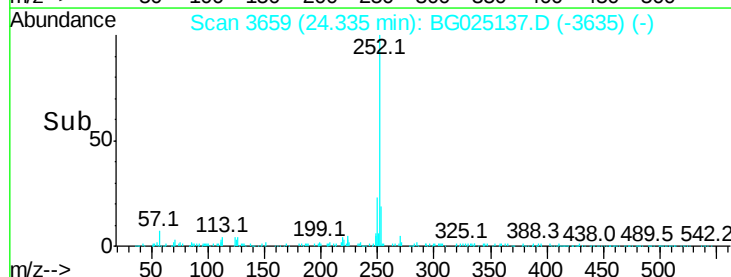
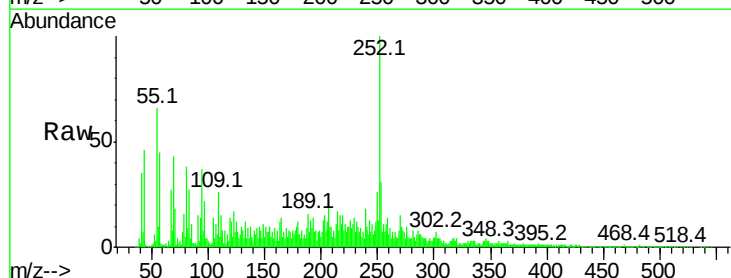
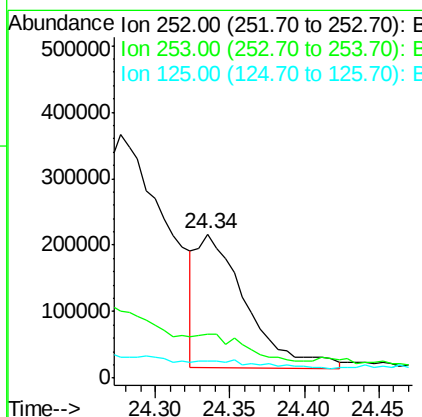
RT: 24.34 min Scan# 3659

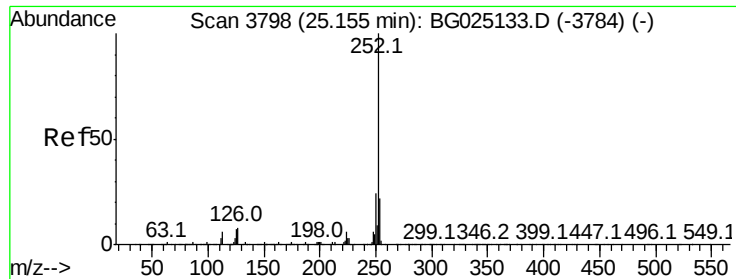
Delta R.T. 0.04 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	252	Resp:	463122
Ion Ratio	Lower	Upper	
252	100		
253	30.6	18.5	27.7#
125	11.6	4.1	6.1#





#88

Benzo(a)pyrene

Concen: 27.24 ng/ul m

RT: 25.23 min Scan# 3811

Delta R.T. 0.07 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

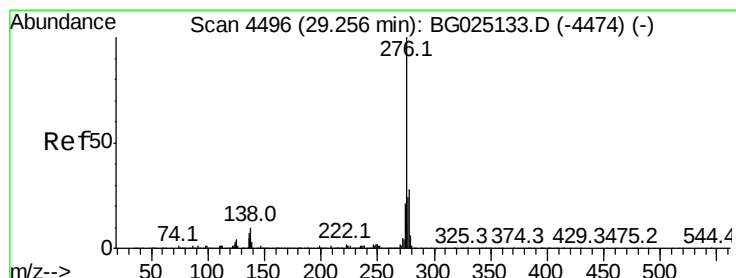
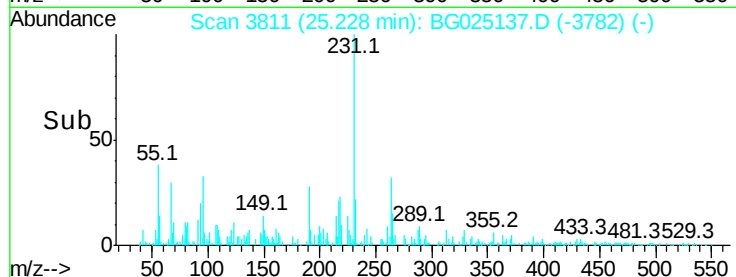
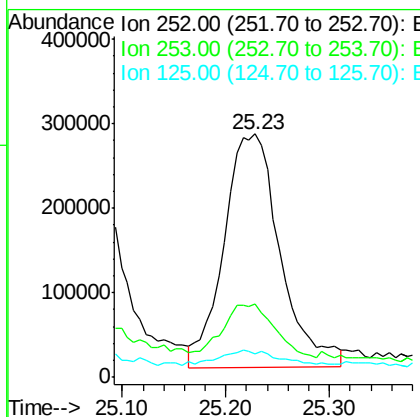
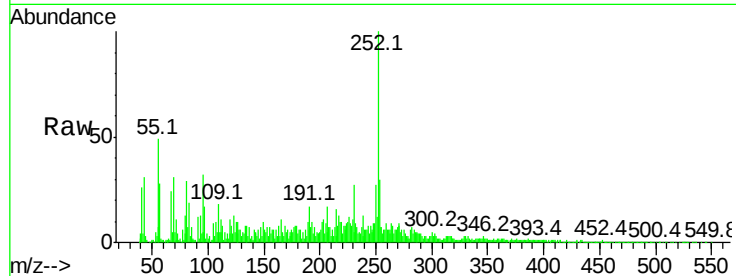
ClientSampleId :

P035-SS002-1824-03

Tot Ion:	252	Resp:	1038645
Ion Ratio	Lower	Upper	
252	100		
253	30.0	17.8	26.6#
125	9.7	5.4	8.0#

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#89

Indeno(1,2,3-cd)pyrene

Concen: 9.77 ng/ul m

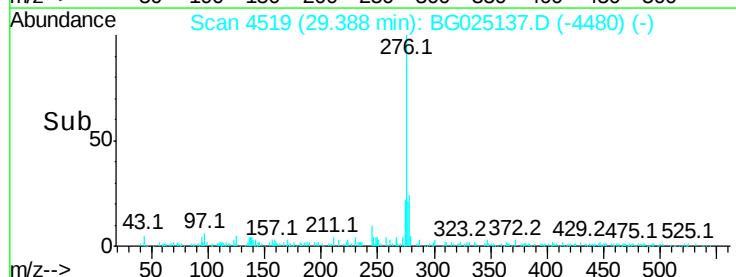
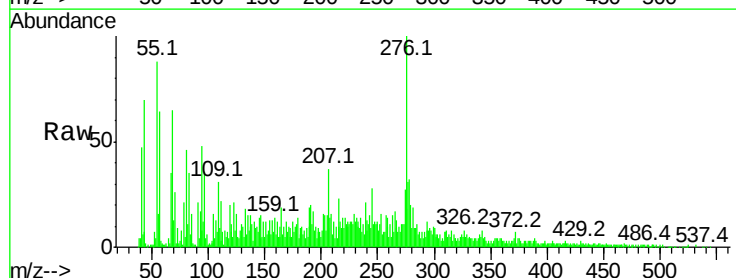
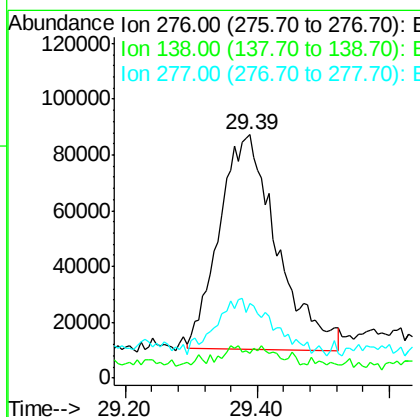
RT: 29.39 min Scan# 4519

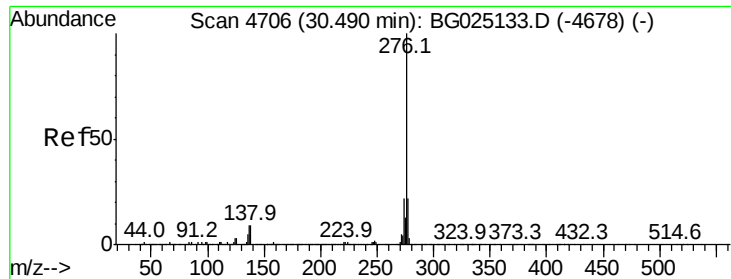
Delta R.T. 0.13 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	276	Resp:	463075
Ion Ratio	Lower	Upper	
276	100		
138	10.0	8.2	12.4
277	30.8	18.6	28.0#





#91

Benzo(a,h,i)perylene

Concen: 14.69 ng/ul m

RT: 30.64 min Scan# 4732

Delta R.T. 0.15 min

Lab File: BG025137.D

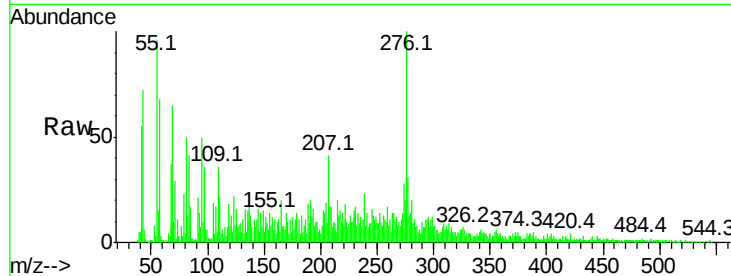
Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03



Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	12.9	8.6	12.8#	
277	30.9	17.6	26.4#	

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