

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
 Data File : BG021193.D
 Acq On : 1 Mar 2016 21:04
 Operator : UM/SJ
 Sample : H1578-03 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CEB-7(2.5-5)20160224

Manual Integrations
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Sohil
 3/2/2016 9:52:00 AM

Quant Time: Mar 02 00:21:55 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 17:40:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	9400	20.00	ng	-0.01
21) Naphthalene-d8	10.95	136	51515	20.00	ng	-0.01
38) Acenaphthene-d10	14.75	164	32610	20.00	ng	-0.01
63) Phenanthrene-d10	17.49	188	71673	20.00	ng	-0.01
75) Chrysene-d12	21.75	240	74990	20.00	ng	-0.01
86) Perylene-d12	25.03	264	70177	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	14811	25.05	ng	-0.01
7) Phenol-d6	7.29	99	25808	26.54	ng	-0.01
23) Nitrobenzene-d5	9.30	82	18701	15.36	ng	-0.02
41) 2,4,6-Tribromophenol	16.23	330	6405	18.88	ng	-0.01
44) 2-Fluorobiphenyl	13.38	172	29119	12.68	ng	-0.01
78) Terphenyl-d14	20.07	244	36543	11.81	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	11.00	128	38559	14.36	ng	98
37) 2-Methylnaphthalene	12.59	142	11412	5.97	ng	# 93
48) Acenaphthylene	14.48	152	7434	2.18	ng	# 92
51) Acenaphthene	14.82	154	26006	12.02	ng	97
54) Dibenzofuran	15.14	168	29724	10.29	ng	91
57) Fluorene	15.80	166	39400	14.31	ng	96
70) Phenanthrene	17.54	178	553431	143.08	ng	100
71) Anthracene	17.62	178	84752	21.41	ng	97
72) Carbazole	17.89	167	36370	10.36	ng	98
74) Fluoranthene	19.53	202	550824	121.22	ng	98
77) Pyrene	19.89	202	566874	126.72	ng	97
80) Benzo(a)anthracene	21.74	228	238602m	53.74	ng	
82) Chrysene	21.80	228	250212	59.47	ng	98
85) Indeno(1,2,3-cd)pyrene	28.75	276	112224	23.26	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	263037	59.59	ng	96
88) Benzo(k)fluoranthene	24.04	252	75083m	16.98	ng	
89) Benzo(a)pyrene	24.87	252	202214	47.38	ng	94
91) Benzo(g,h,i)perylene	29.93	276	112867	27.67	ng	# 91

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

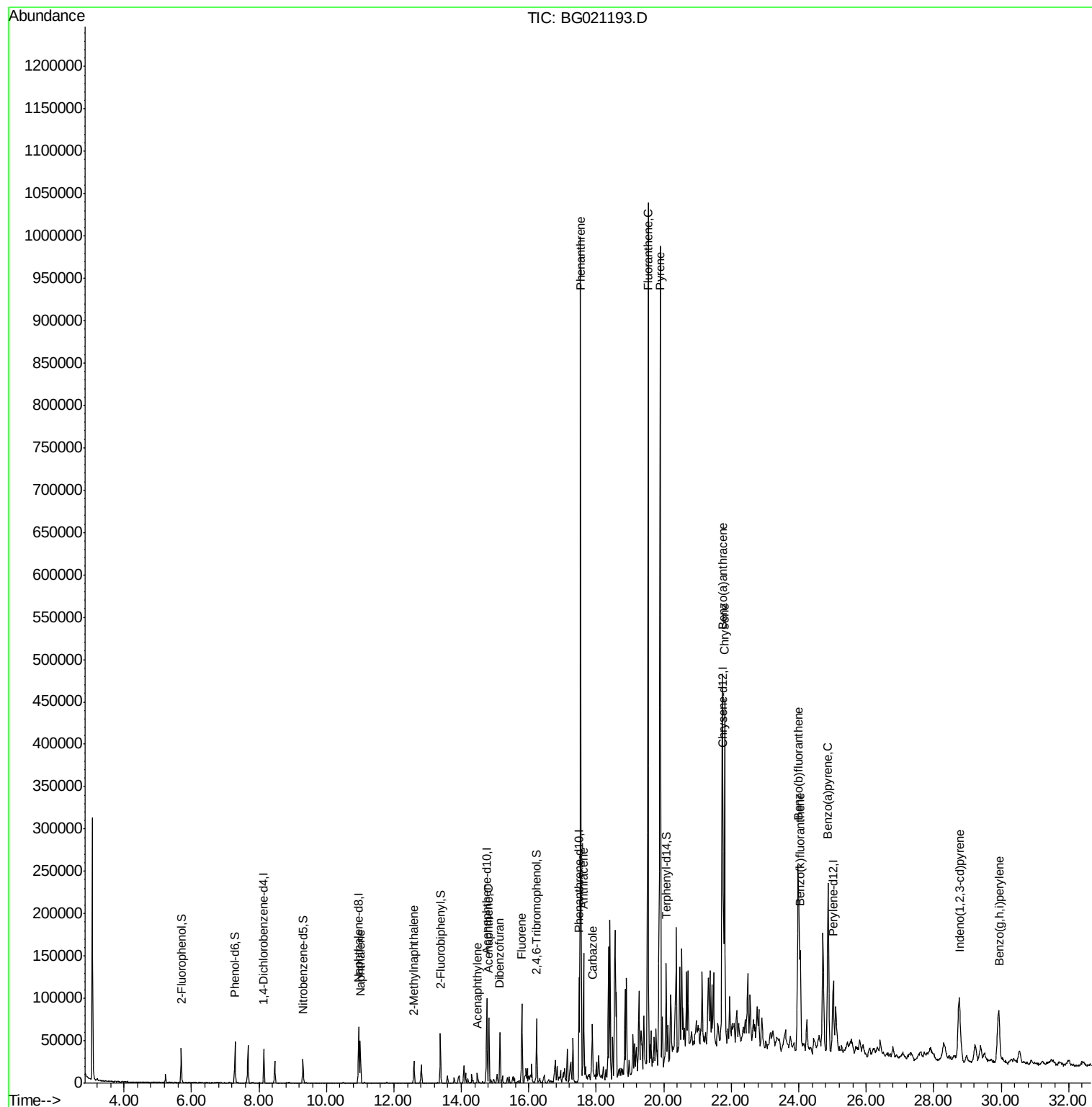
Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
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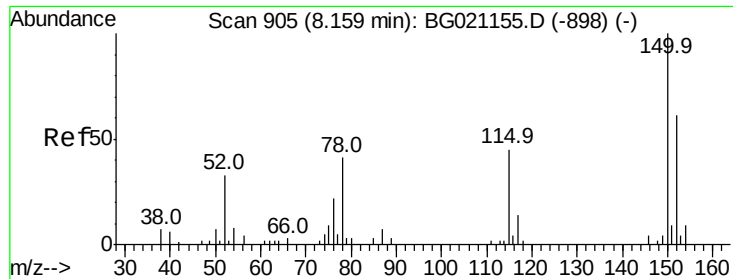
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.15 min Scan# 903

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

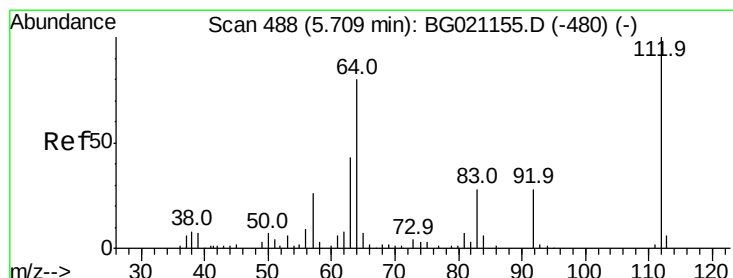
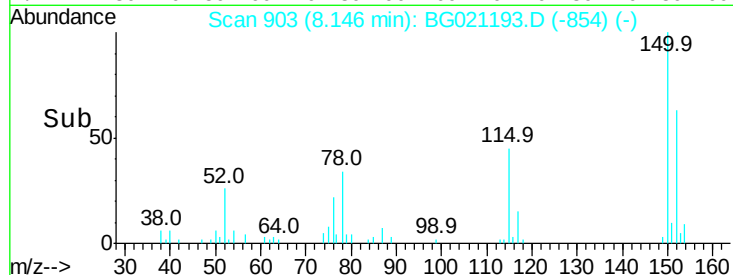
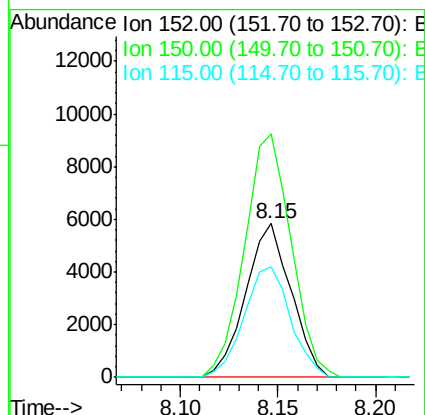
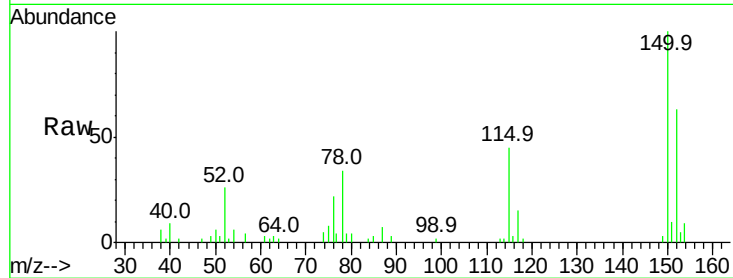
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion:	152	Resp:	9400
Ion Ratio	Lower	Upper	
152	100		
150	158.5	123.4	185.2
115	71.7	43.3	64.9#

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#5

2-Fluorophenol

Concen: 25.05 ng

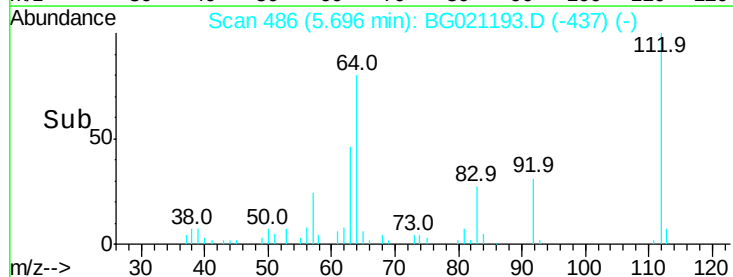
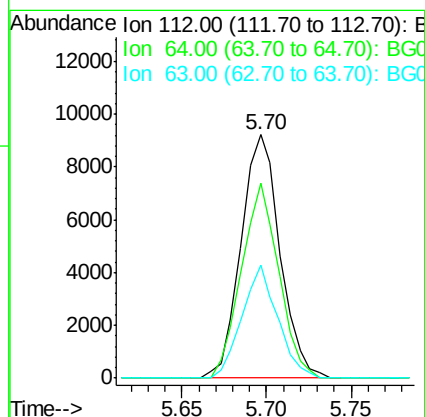
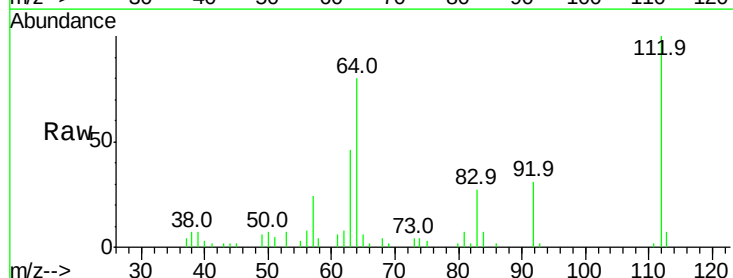
RT: 5.70 min Scan# 486

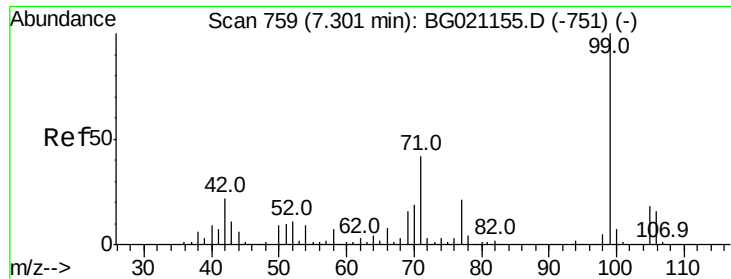
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion:	112	Resp:	14811
Ion Ratio	Lower	Upper	
112	100		
64	80.0	42.6	63.8#
63	46.2	21.7	32.5#





#7

Phenol-d6

Concen: 26.54 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

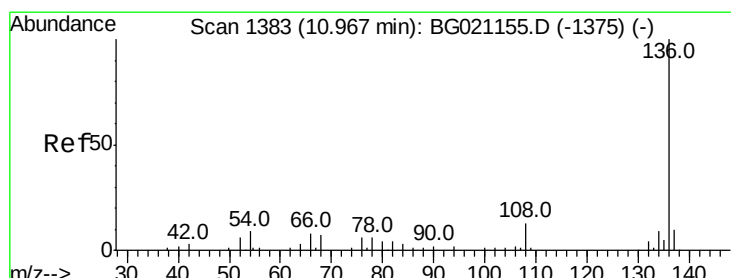
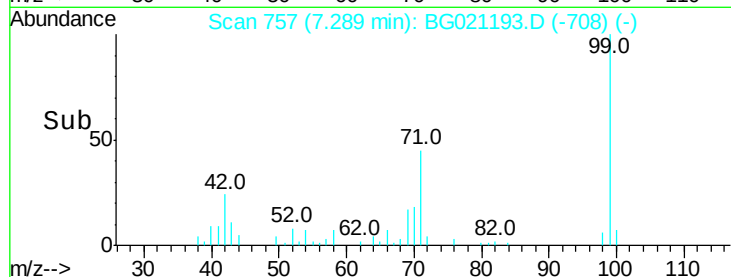
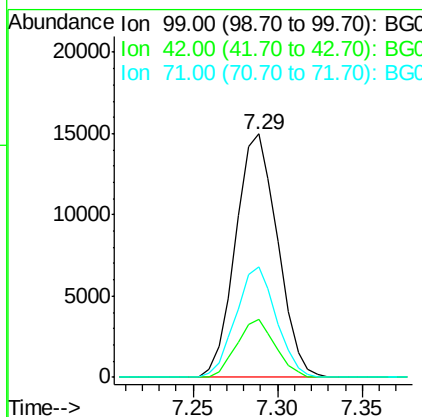
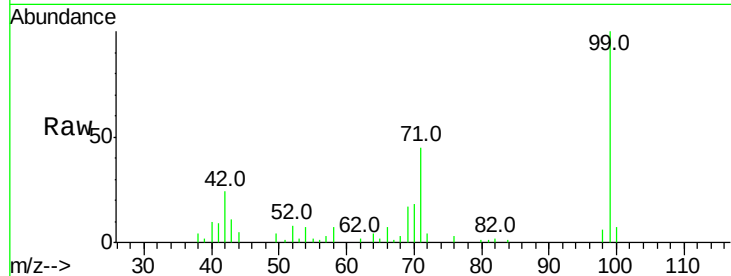
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		25808		
42	23.7	13.2	19.8#		
71	45.4	25.2	37.8#		

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#21

Naphthalene-d8

Concen: 20.00 ng

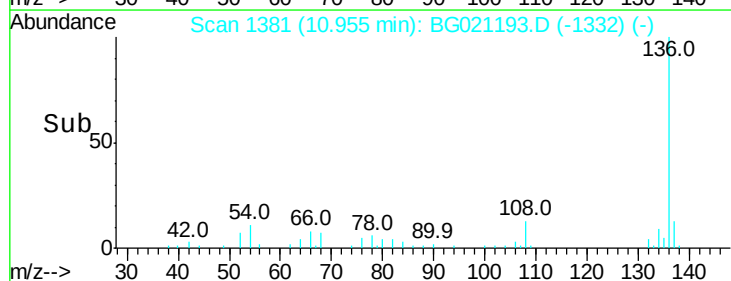
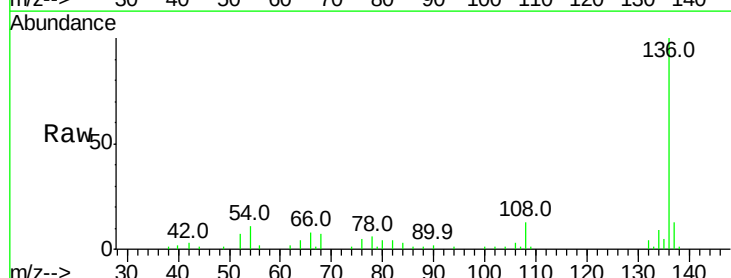
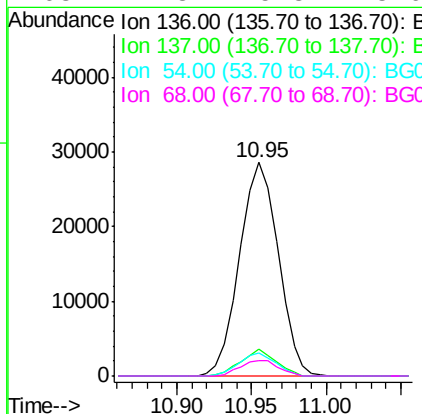
RT: 10.95 min Scan# 1381

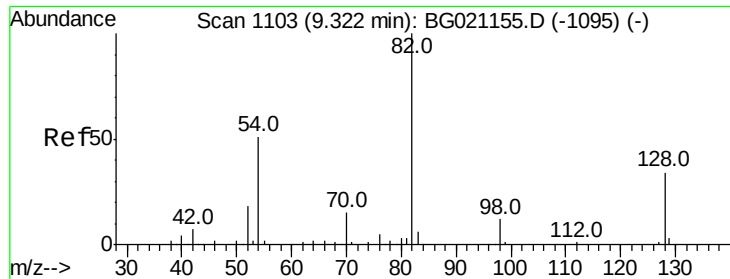
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		51515		
137	12.5	8.8	13.2		
54	11.1	6.9	10.3#		
68	7.3	5.8	8.6		





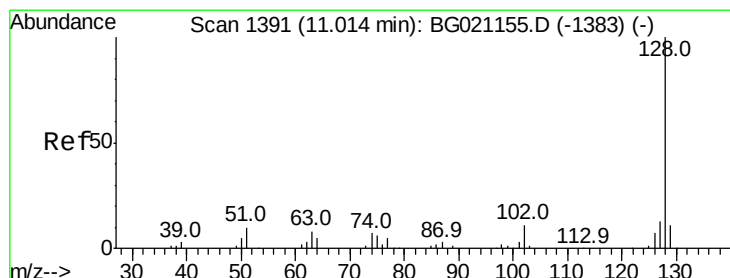
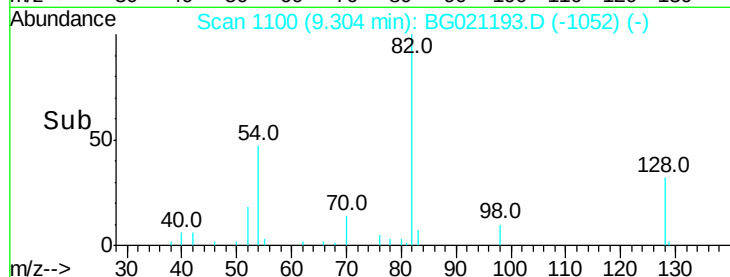
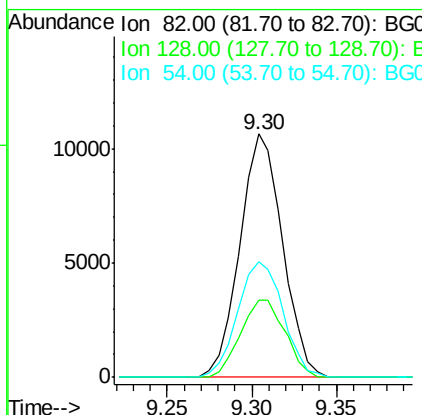
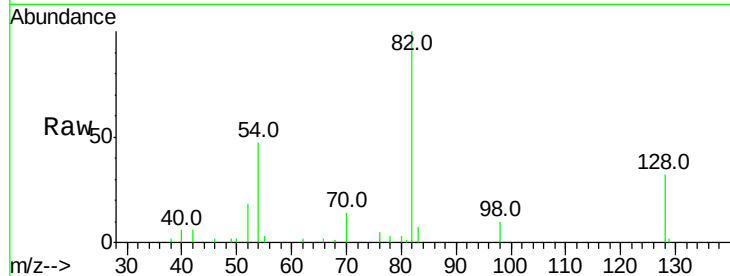
#23
 Nitrobenzene-d5
 Concen: 15.36 ng
 RT: 9.30 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: BG021193.D
 Acq: 1 Mar 2016 21:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-7(2.5-5)20160224

Tot Ion	Ratio	Lower	Upper
82	100		
128	31.7	36.3	54.5#
54	47.2	37.6	56.4

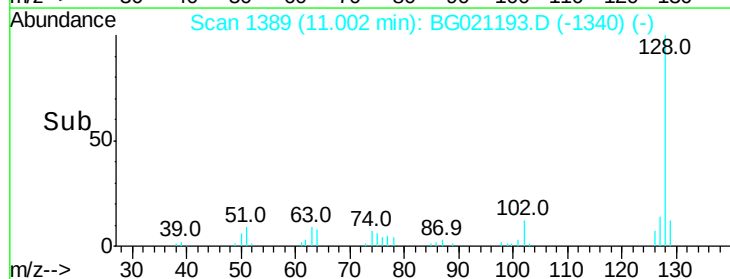
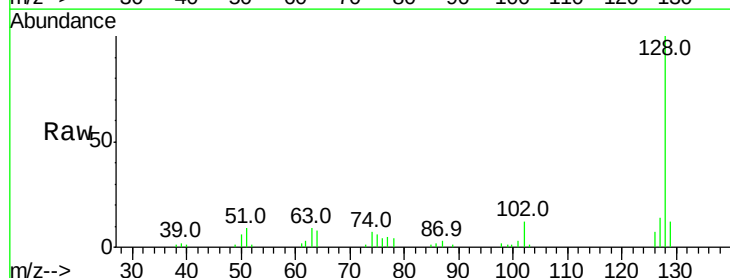
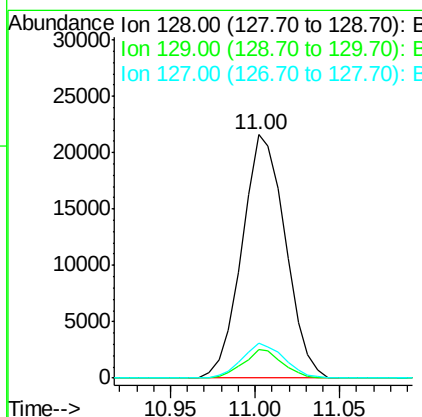
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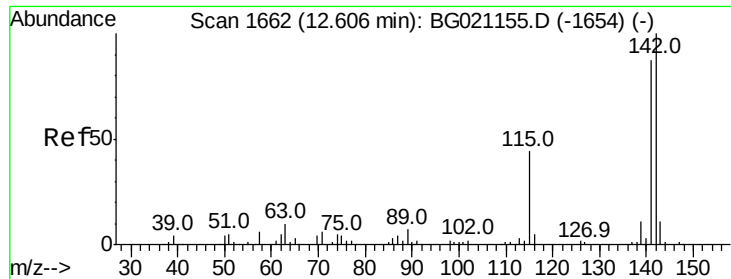
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#31
 Naphthalene
 Concen: 14.36 ng
 RT: 11.00 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: BG021193.D
 Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.4	14.2
127	14.4	10.8	16.2





#37

2-Methylnaphthalene

Concen: 5.97 ng

RT: 12.59 min Scan# 1660

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

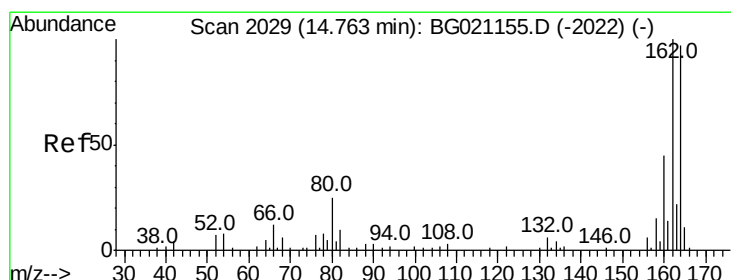
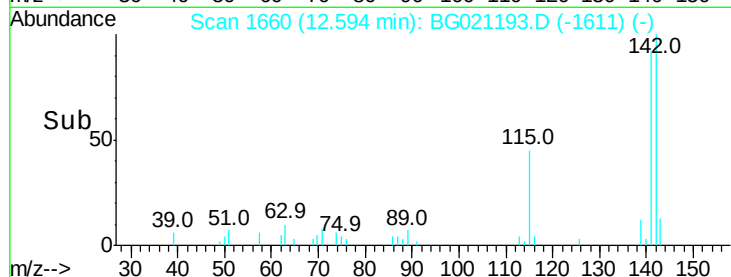
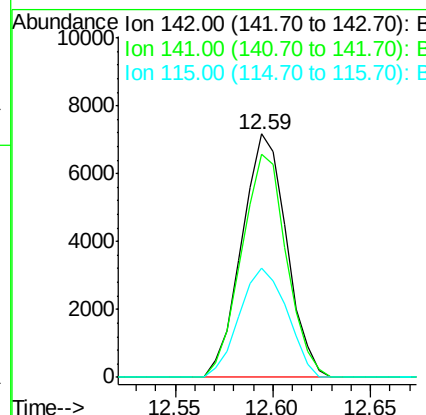
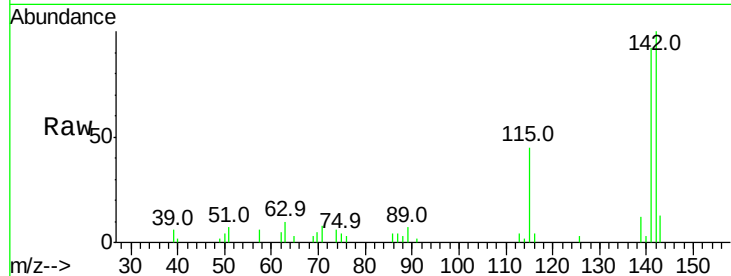
ClientSampleId :

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Tot Ion:	142	Resp:	11412
Ion Ratio	Lower	Upper	
142	100		
141	91.6	71.7	107.5
115	44.8	26.2	39.4

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#38

Acenaphthene-d10

Concen: 20.00 ng

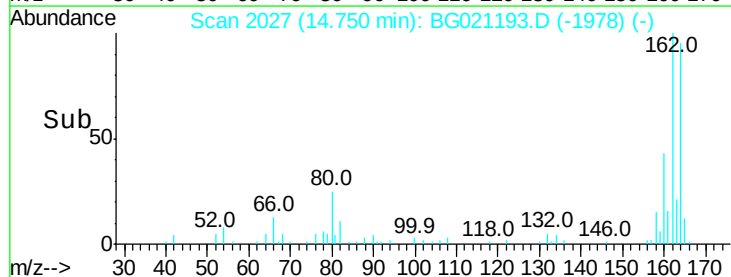
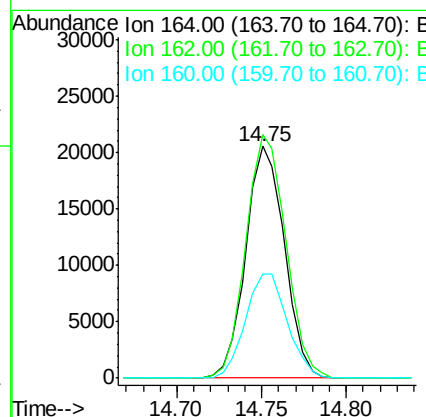
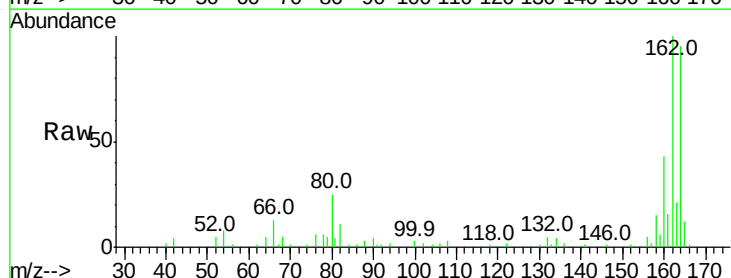
RT: 14.75 min Scan# 2027

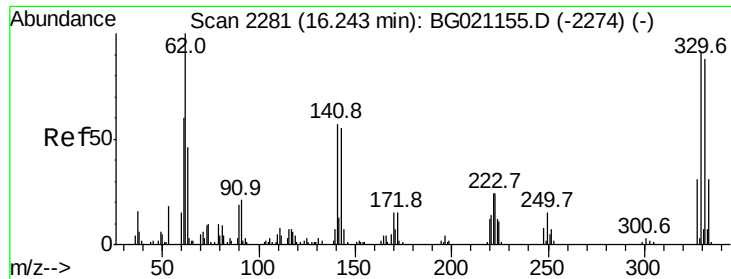
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion:	164	Resp:	32610
Ion Ratio	Lower	Upper	
164	100		
162	104.9	80.6	120.8
160	44.6	36.5	54.7





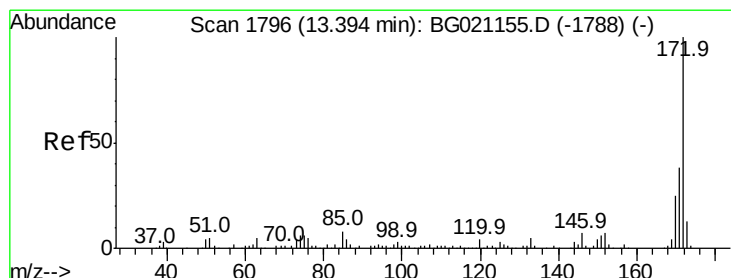
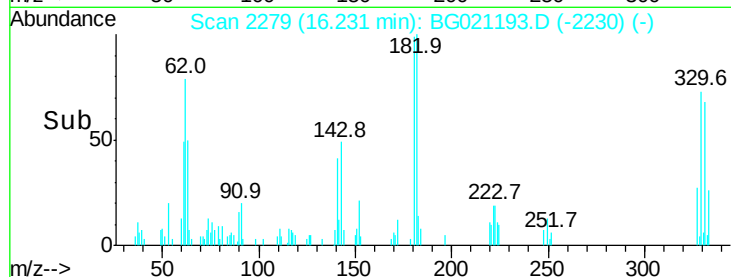
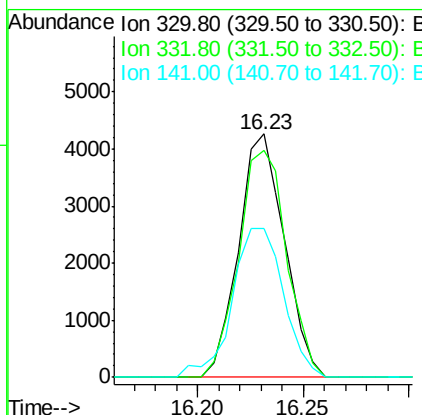
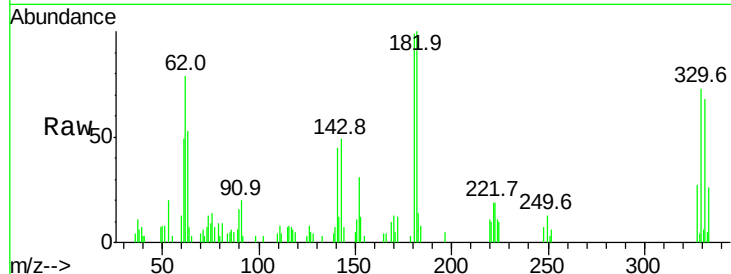
#41
 2,4,6-Tribromophenol
 Concen: 18.88 ng
 RT: 16.23 min Scan# 2279
 Delta R.T. -0.01 min
 Lab File: BG021193.D
 Acq: 1 Mar 2016 21:04

Instrument :
 BNA_G
 ClientSampleId :
 CEB-7(2.5-5)20160224

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.4	116.0
141	68.8	35.3	52.9#

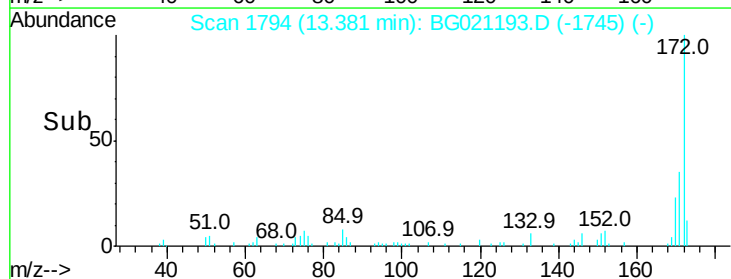
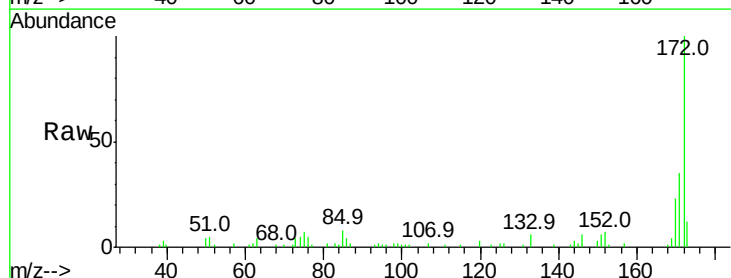
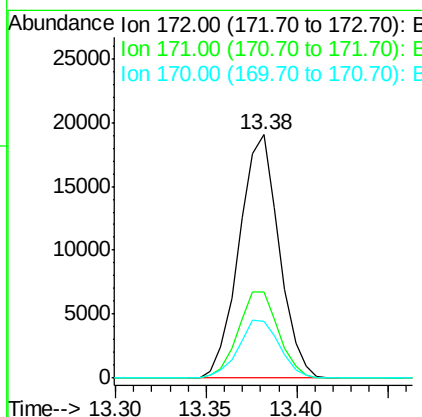
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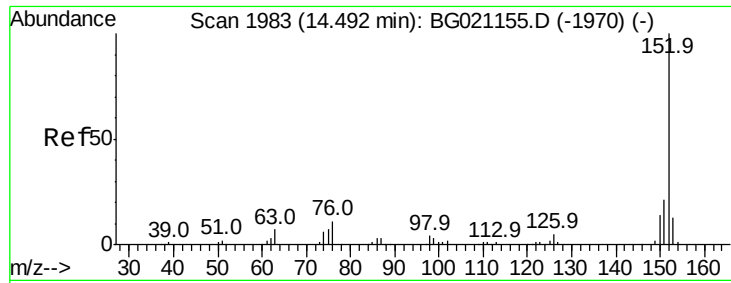
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#44
 2-Fluorobiphenyl
 Concen: 12.68 ng
 RT: 13.38 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: BG021193.D
 Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.4	44.0
170	23.1	19.8	29.8





#48

Acenaphthylene

Concen: 2.18 ng

RT: 14.48 min Scan# 1981

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

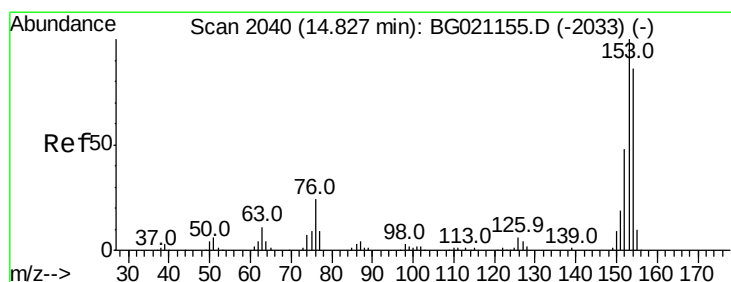
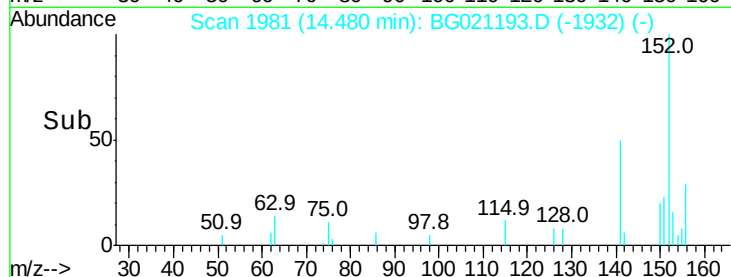
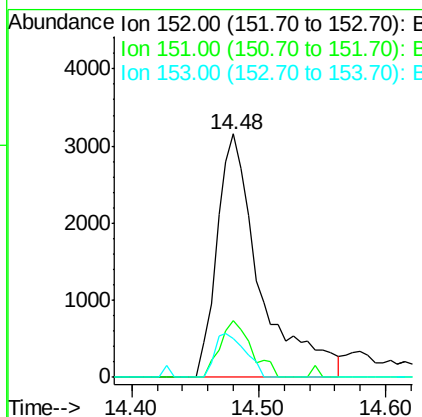
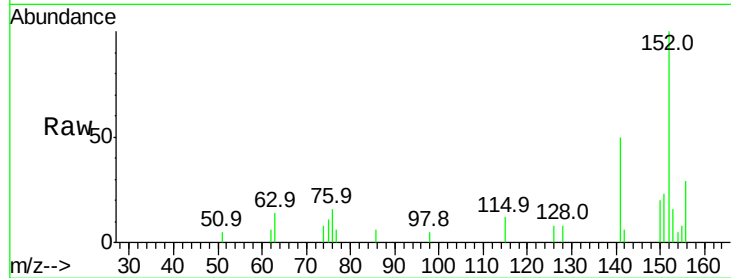
ClientSampleId :

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Tot Ion:	152	Resp:	7434
Ion Ratio	Lower	Upper	
152	100		
151	23.5	15.9	23.9
153	15.7	10.2	15.2#

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#51

Acenaphthene

Concen: 12.02 ng

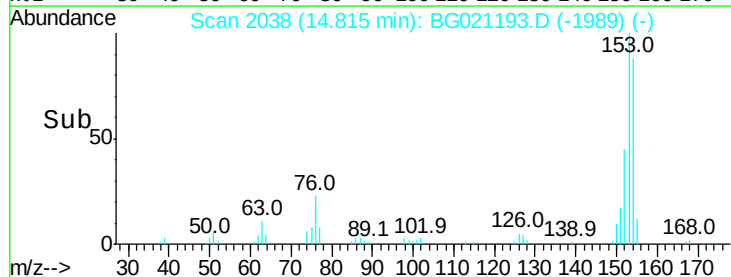
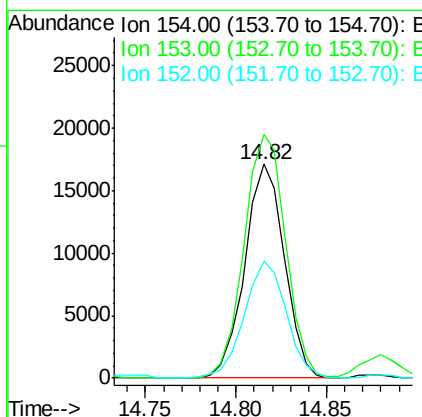
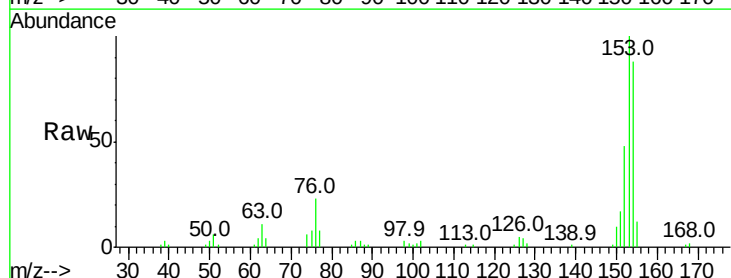
RT: 14.82 min Scan# 2038

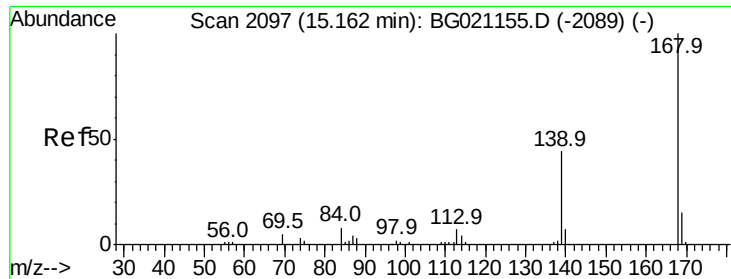
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion:	154	Resp:	26006
Ion Ratio	Lower	Upper	
154	100		
153	113.7	94.2	141.2
152	54.4	42.9	64.3





#54

Dibenzenofuran

Concen: 10.29 ng

RT: 15.14 min Scan# 2094

Delta R.T. -0.02 min

Lab File: BG021193.D

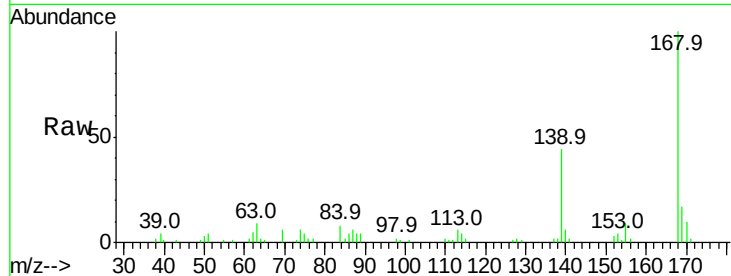
Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

ClientSampleId :

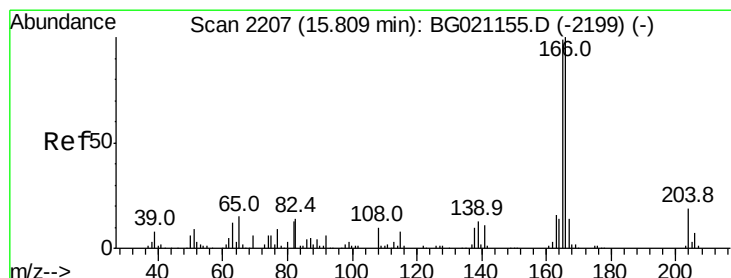
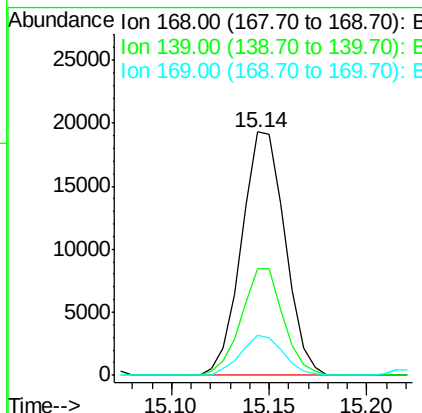
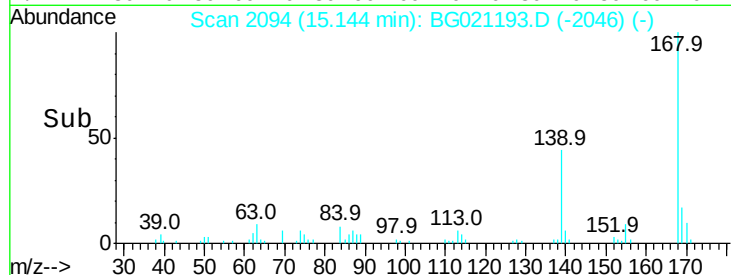
CEB-7(2.5-5)20160224



Tot Ion	168	Resp	29724
Ion Ratio	Lower	Upper	
168	100		
139	43.7	29.8	44.8
169	16.6	11.4	17.2

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#57

Fluorene

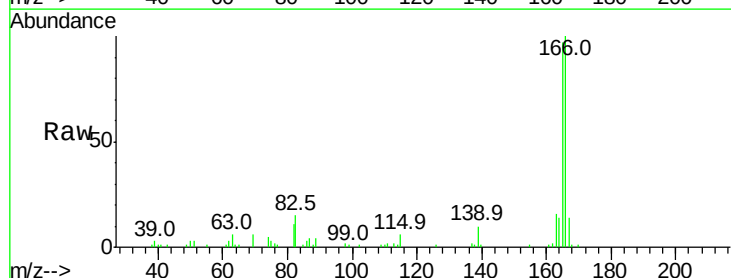
Concen: 14.31 ng

RT: 15.80 min Scan# 2205

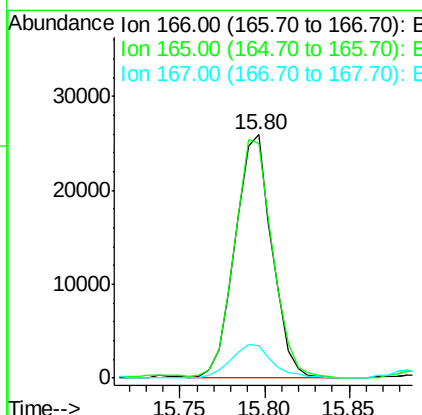
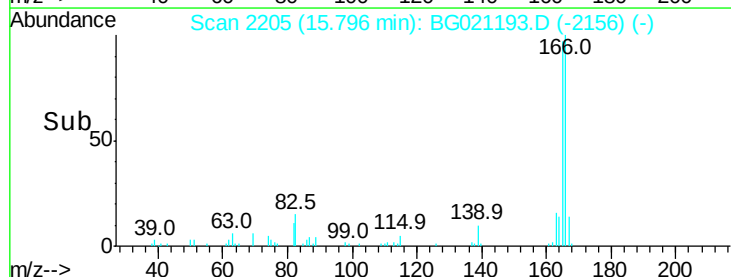
Delta R.T. -0.01 min

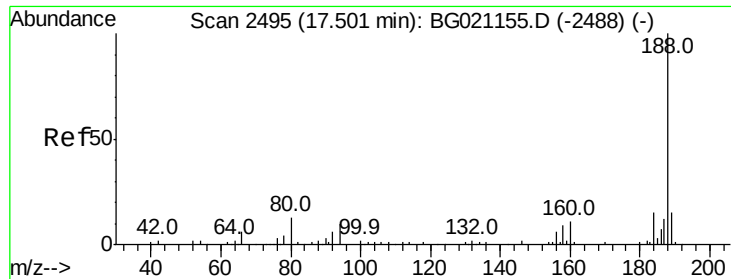
Lab File: BG021193.D

Acq: 1 Mar 2016 21:04



Tgt Ion	166	Resp	39400
Ion Ratio	Lower	Upper	
166	100		
165	96.6	81.3	121.9
167	13.5	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.49 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

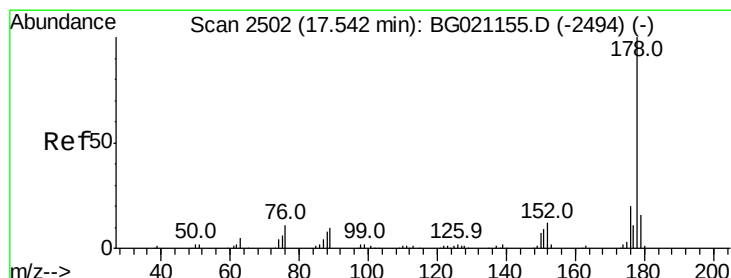
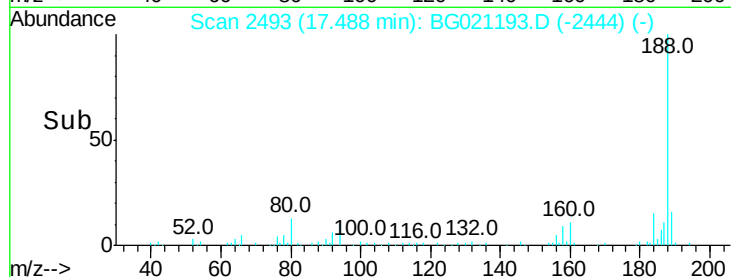
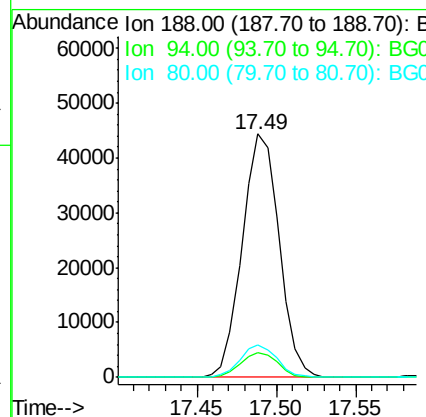
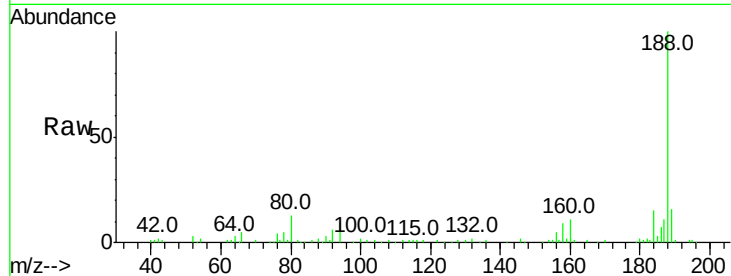
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion:	188	Resp:	71673
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.2	12.4
80	13.4	9.2	13.8

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#70

Phenanthrene

Concen: 143.08 ng

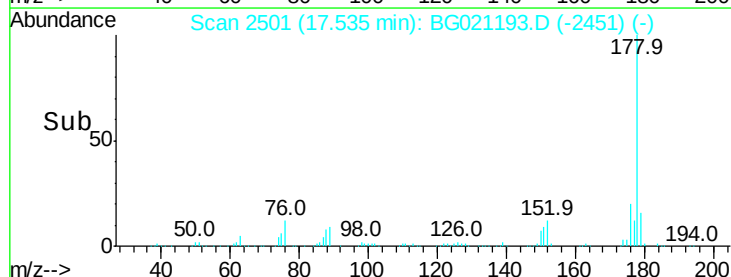
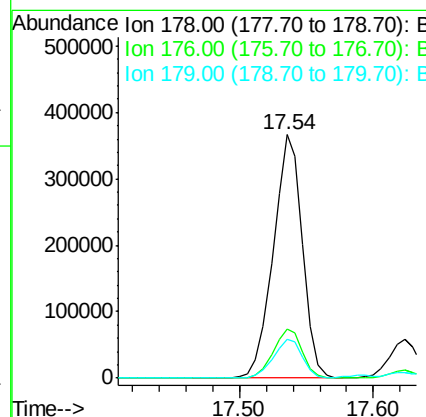
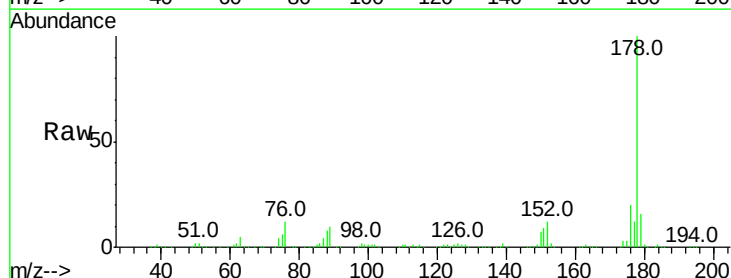
RT: 17.54 min Scan# 2501

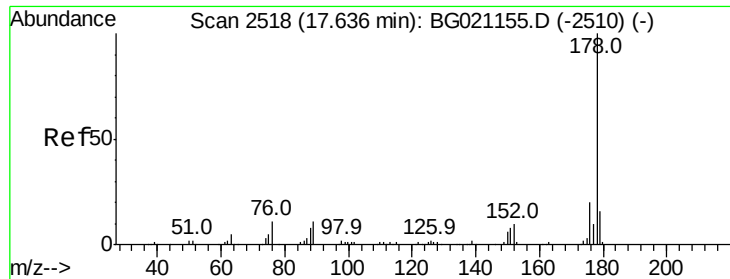
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion:	178	Resp:	553431
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.2	24.4
179	16.1	12.9	19.3





#71

Anthracene

Concen: 21.41 ng

RT: 17.62 min Scan# 2516

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

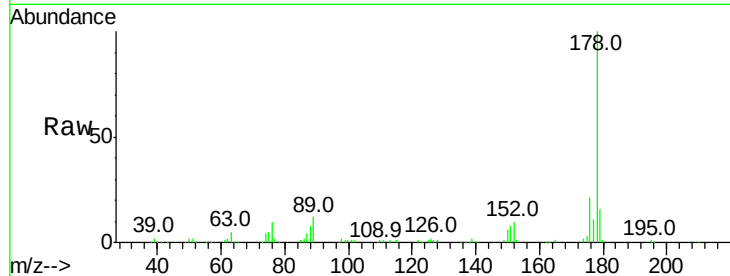
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion:	178	Resp:	84752
Ion Ratio	Lower	Upper	
178	100		
176	20.6	14.8	22.2
179	15.7	12.6	19.0

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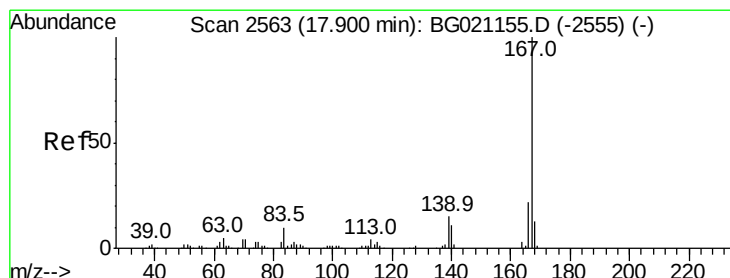
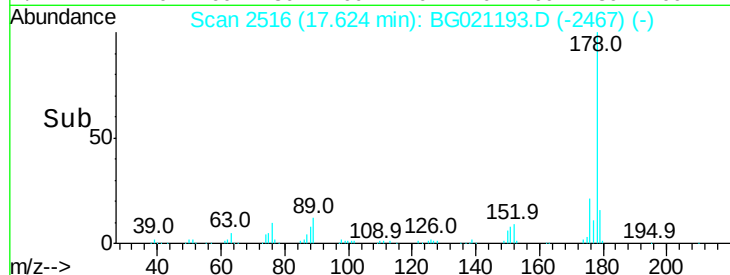
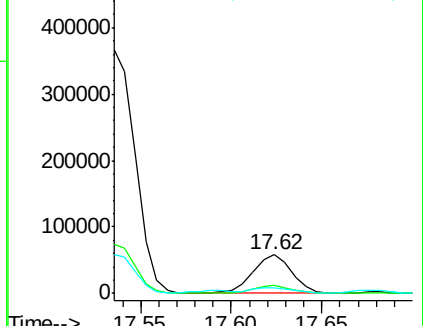
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 10.36 ng

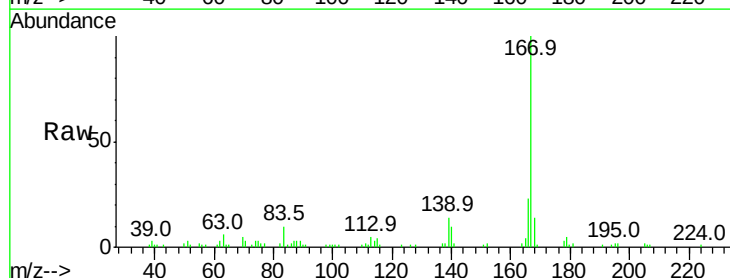
RT: 17.89 min Scan# 2561

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

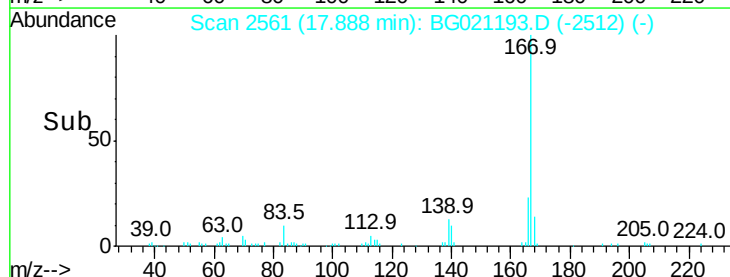
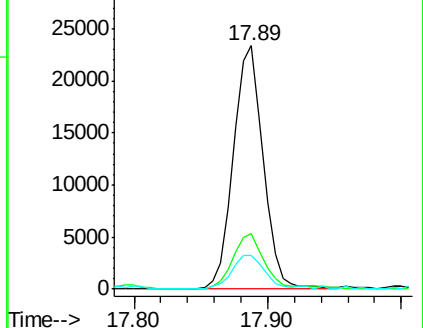
Tgt Ion:	167	Resp:	36370
Ion Ratio	Lower	Upper	
167	100		
166	22.9	17.5	26.3
139	13.9	10.3	15.5

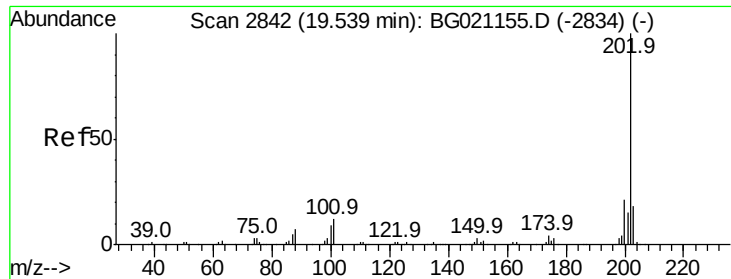


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 121.22 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

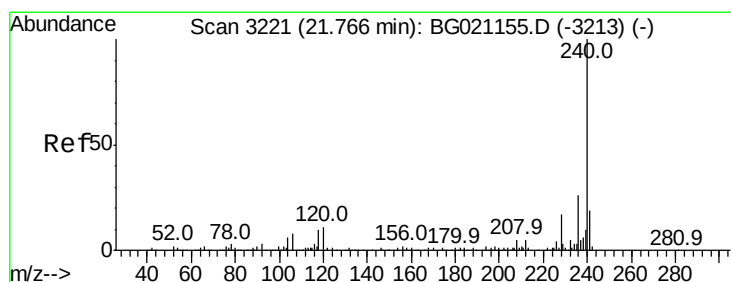
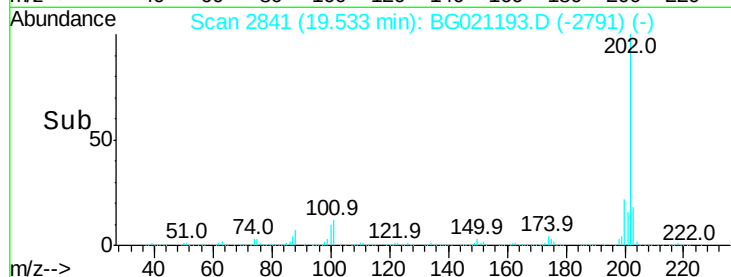
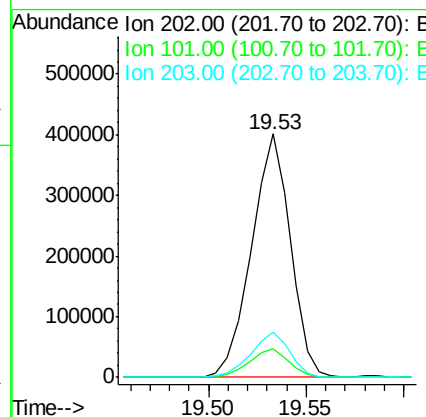
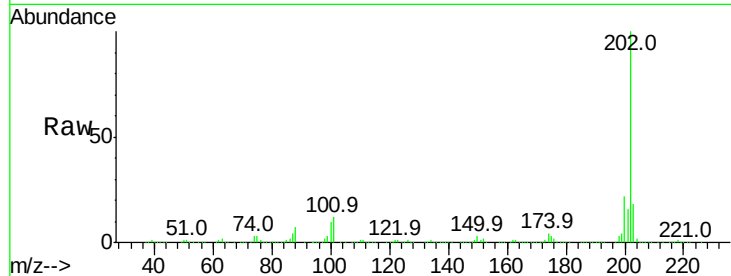
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion:	202	Resp:	550824
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	32.5
203	18.4	0.0	37.6

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#75

Chrysene-d12

Concen: 20.00 ng

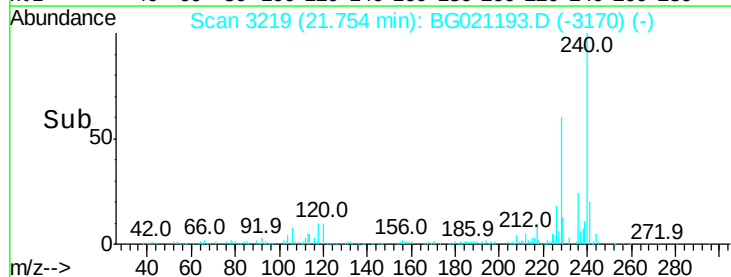
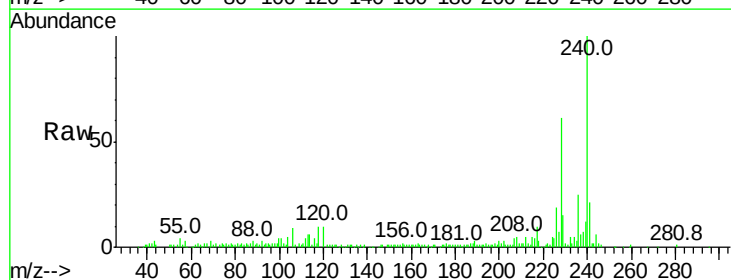
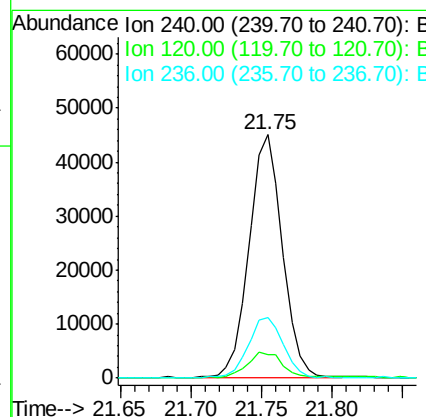
RT: 21.75 min Scan# 3219

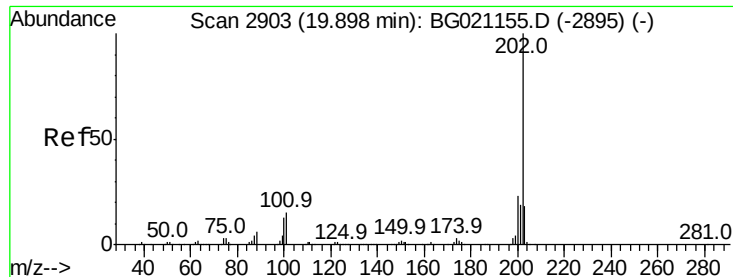
Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion:	240	Resp:	74990
Ion Ratio	Lower	Upper	
240	100		
120	9.8	7.5	11.3
236	25.1	20.5	30.7





#77

Pvrene

Concen: 126.72 ng

RT: 19.89 min Scan# 2902

Delta R.T. -0.01 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

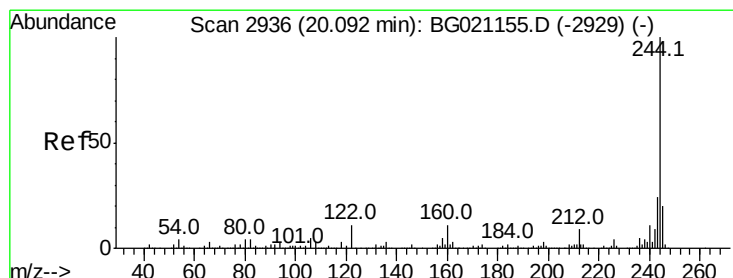
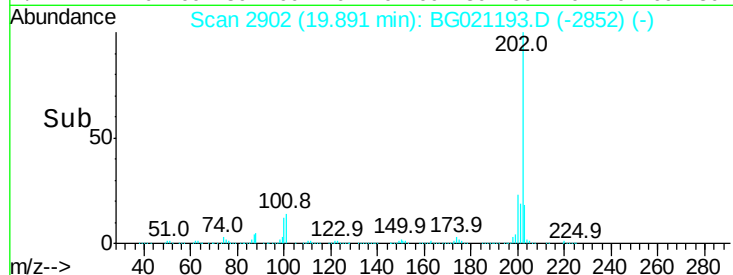
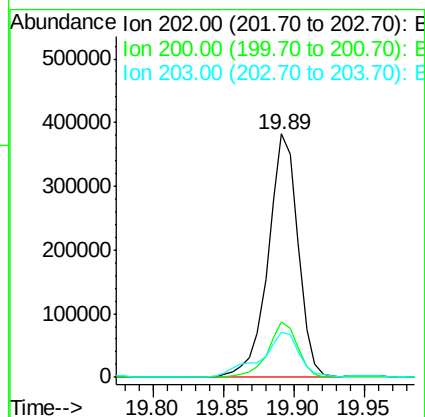
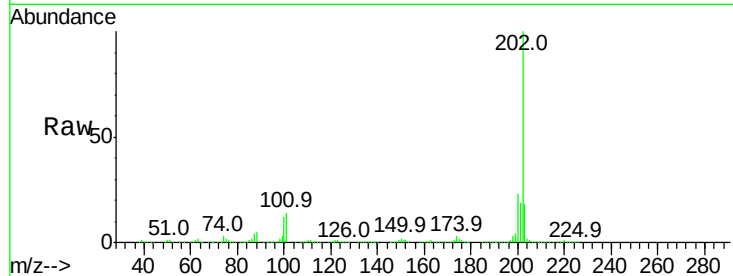
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	22.5	16.6	25.0		
203	18.5	13.8	20.8		

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#78

Terphenyl-d14

Concen: 11.81 ng

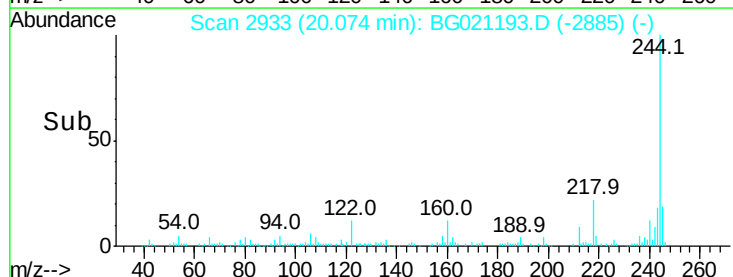
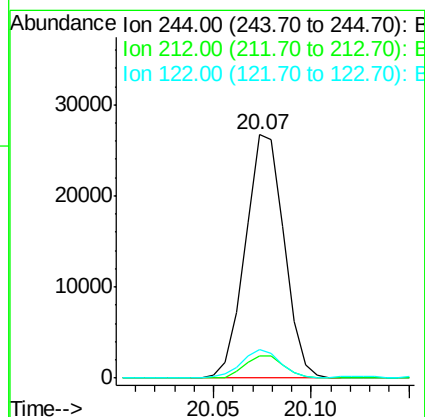
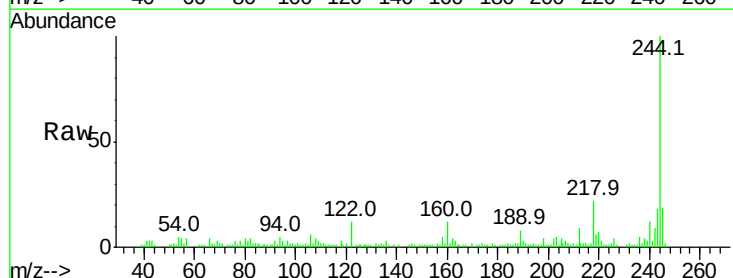
RT: 20.07 min Scan# 2933

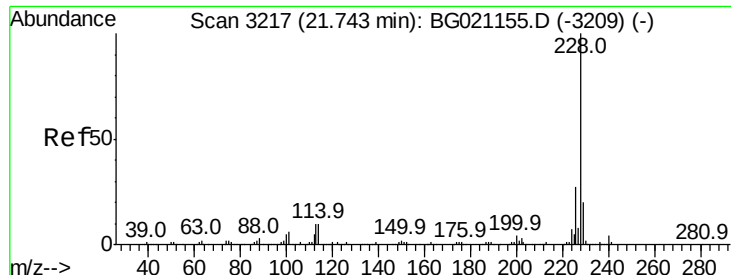
Delta R.T. -0.02 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	8.9	5.8	8.6#		
122	11.8	8.3	12.5		





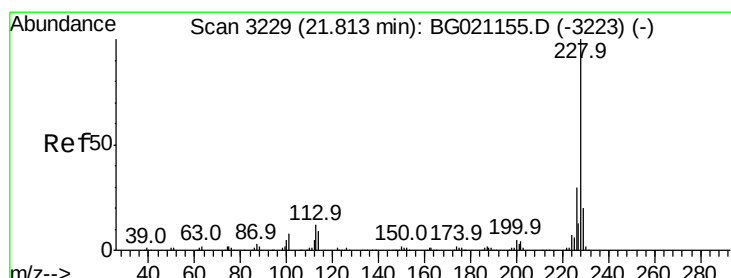
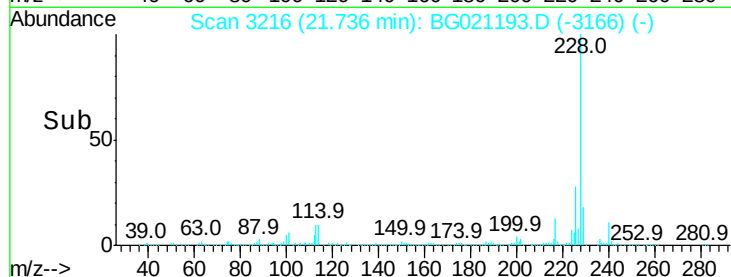
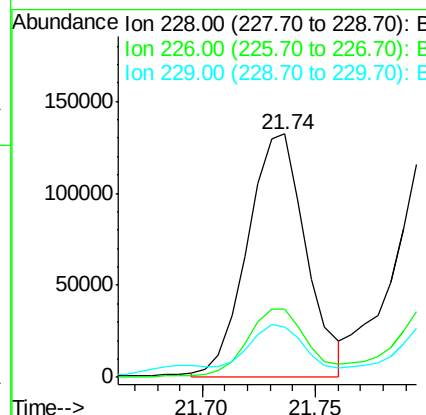
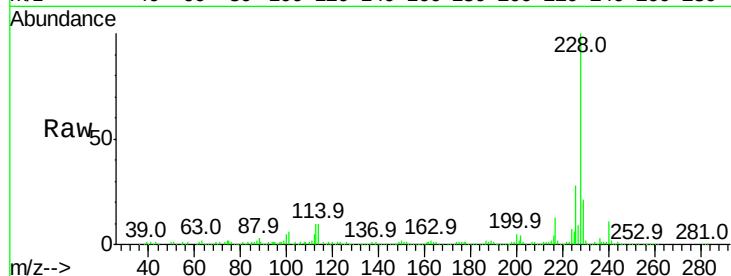
#80
Benzo(a)anthracene
Concen: 53.74 ng
RT: 21.74 min Scan# 3216
Delta R.T. -0.01 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Instrument :
BNA_G
ClientSampleId :
CEB-7(2.5-5)20160224

Tot Ion	Ratio	Resp	Lower	Upper
228	100	238602		
226	28.1		22.7	34.1
229	20.7		15.5	23.3

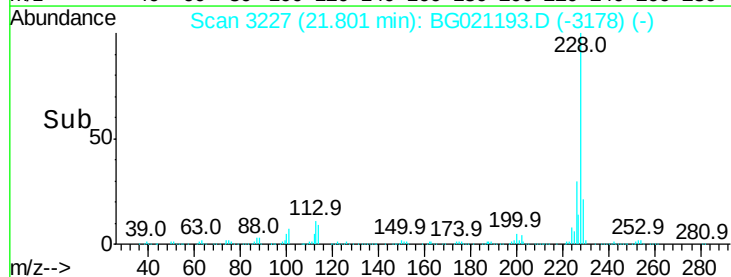
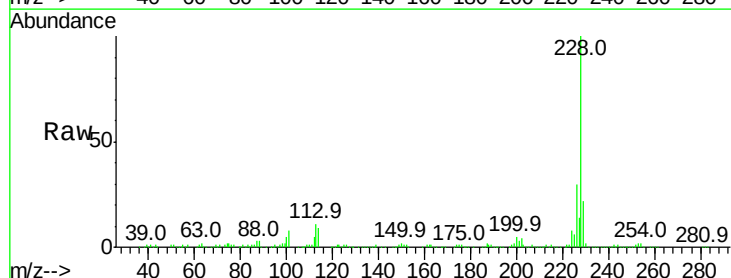
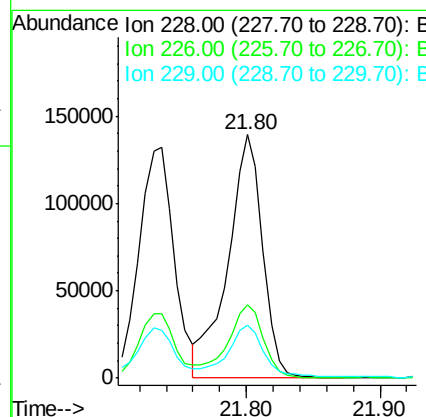
Manual Integrations
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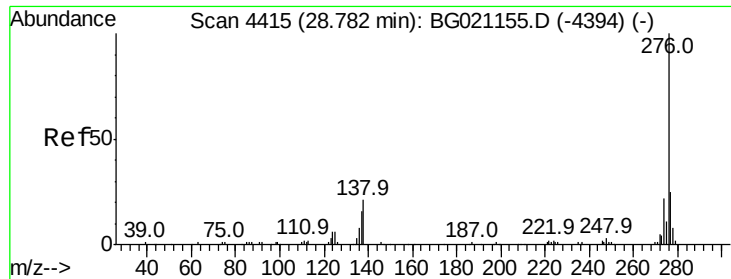
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#82
Chrysene
Concen: 59.47 ng
RT: 21.80 min Scan# 3227
Delta R.T. -0.01 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	250212		
226	30.4		23.7	35.5
229	21.9		16.7	25.1





#85

Indeno(1,2,3-cd)pyrene

Concen: 23.26 ng

RT: 28.75 min Scan# 4410

Delta R.T. -0.03 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Instrument :

BNA_G

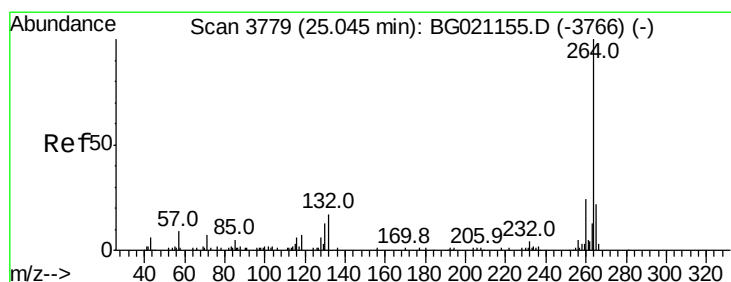
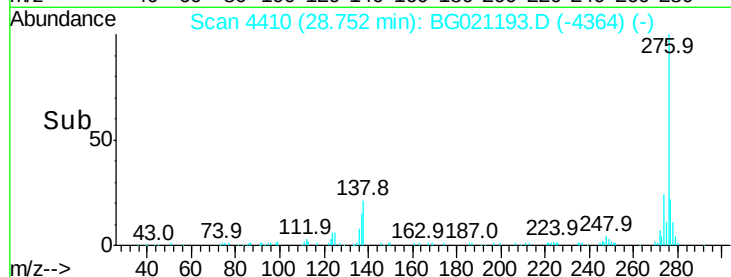
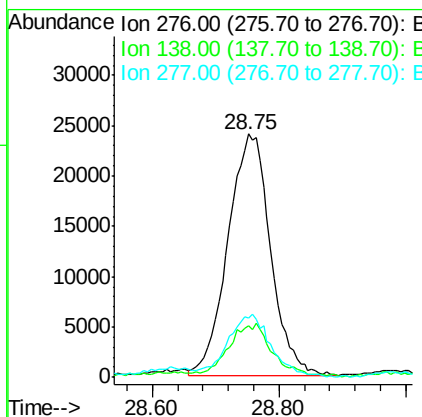
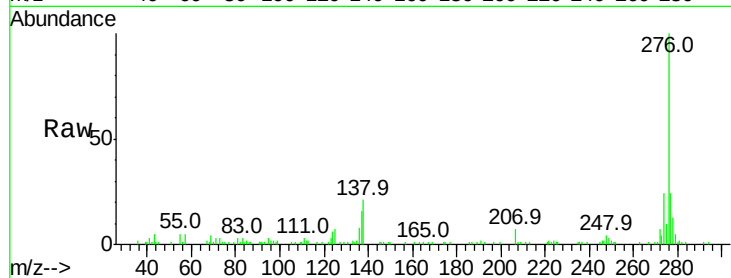
ClientSampleId :

CEB-7(2.5-5)20160224

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	21.7	0.0	0.0	#
277	26.8	0.0	0.0	#

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#86

Perylene-d12

Concen: 20.00 ng

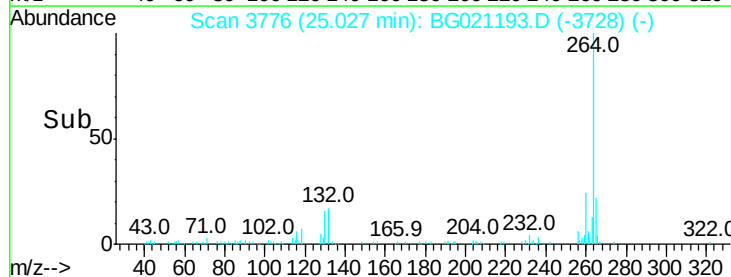
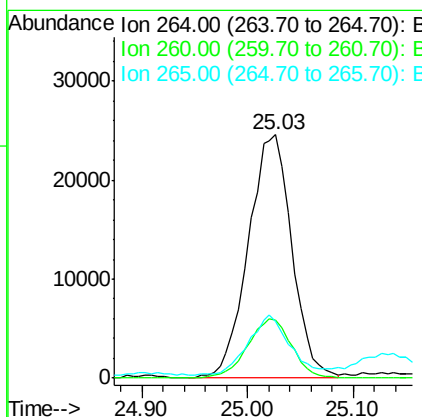
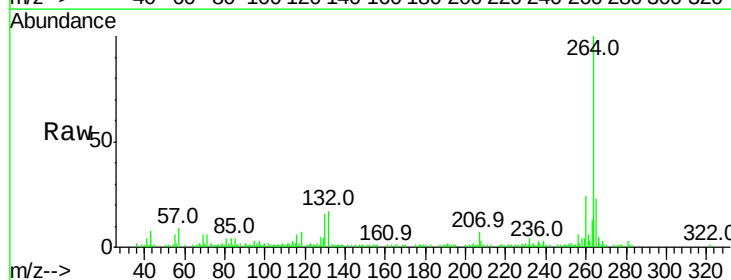
RT: 25.03 min Scan# 3776

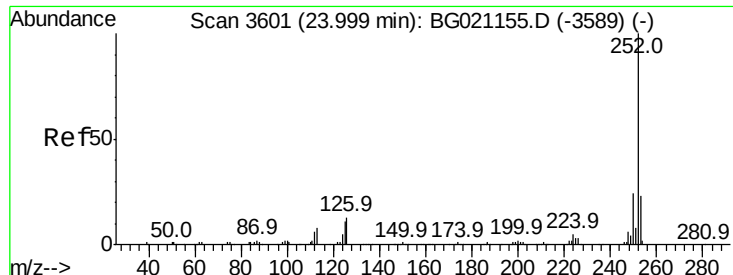
Delta R.T. -0.02 min

Lab File: BG021193.D

Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.8	18.5	27.7	
265	23.0	18.6	28.0	





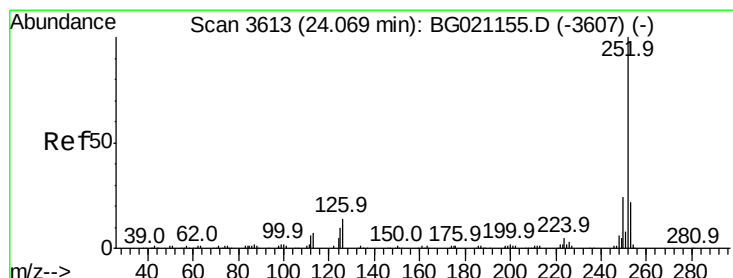
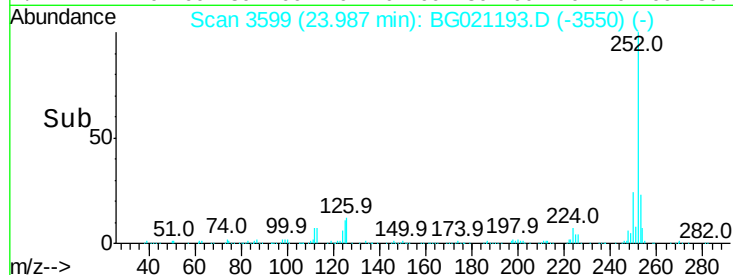
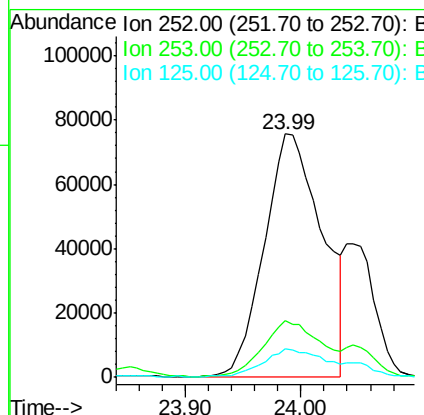
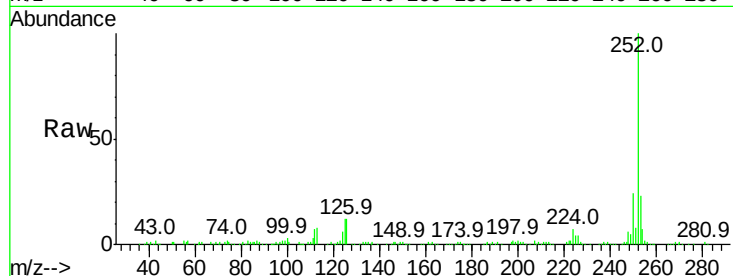
#87
Benzo(b)fluoranthene
Concen: 59.59 ng
RT: 23.99 min Scan# 3599
Delta R.T. -0.01 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Instrument :
BNA_G
ClientSampleId :
CEB-7(2.5-5)20160224

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	16.8	25.2
125	11.5	8.2	12.2

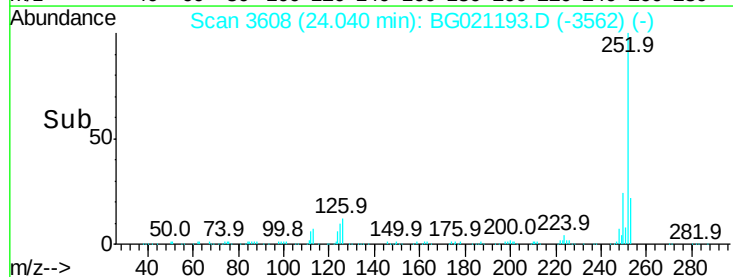
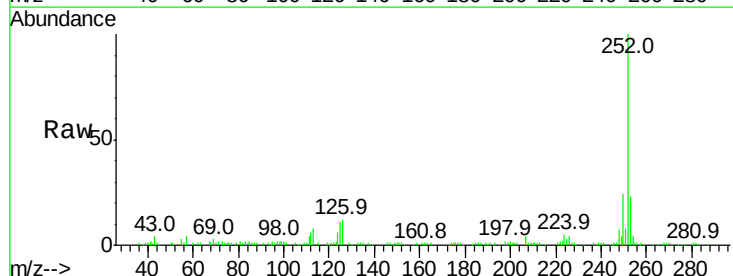
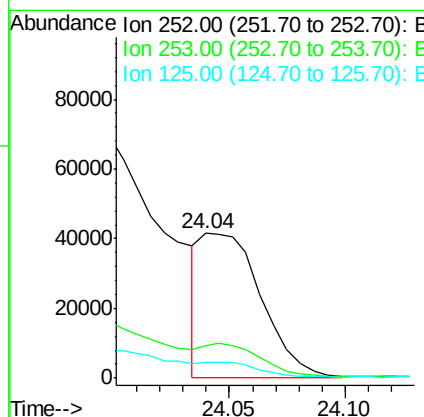
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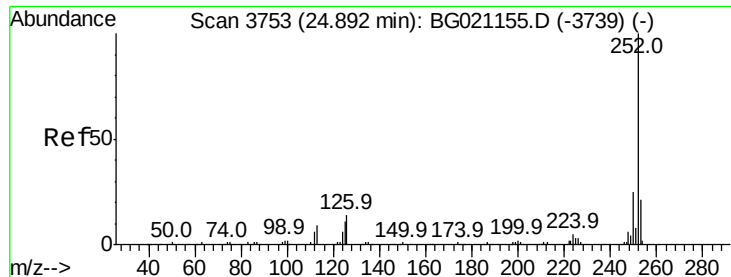
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#88
Benzo(k)fluoranthene
Concen: 16.98 ng m
RT: 24.04 min Scan# 3608
Delta R.T. -0.03 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	16.4	24.6
125	11.0	8.2	12.2





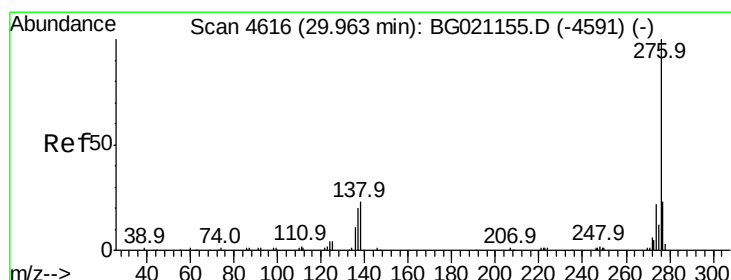
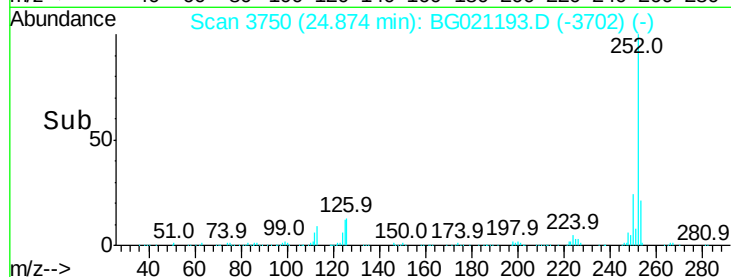
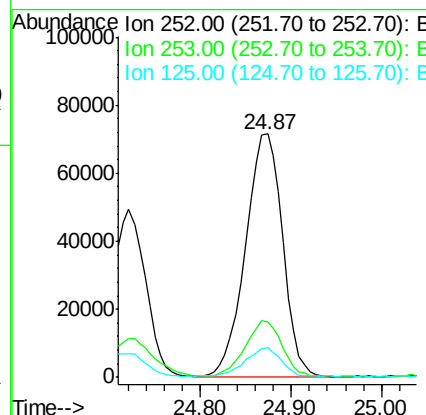
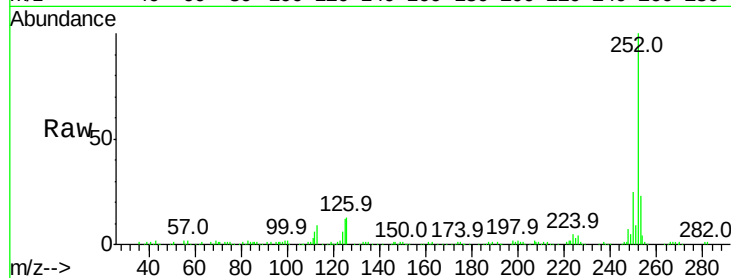
#89
Benzo(a)pyrene
Concen: 47.38 ng
RT: 24.87 min Scan# 3750
Delta R.T. -0.02 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Instrument :
BNA_G
ClientSampleId :
CEB-7(2.5-5)20160224

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	15.8	23.8
125	12.2	8.4	12.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 27.67 ng
RT: 29.93 min Scan# 4611
Delta R.T. -0.03 min
Lab File: BG021193.D
Acq: 1 Mar 2016 21:04

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	16.6	25.0
138	22.8	14.6	21.8

