

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
 Data File : BG021780.D
 Acq On : 20 Apr 2016 11:47
 Operator : UM/SJ
 Sample : H2589-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EUT01-TU-B2(0-5)-C

Manual Integrations
 APPROVED

Sohil
 4/21/2016 10:37:51 AM

Quant Time: Apr 20 12:33:12 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.21	152	34933	20.00	ng	0.00
21) Naphthalene-d8	11.03	136	158179	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	93396	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	196911	20.00	ng	0.00
75) Chrysene-d12	21.83	240	217887	20.00	ng	0.00
86) Perylene-d12	25.17	264	213411	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.76	112	242631	115.66	ng	0.00
7) Phenol-d6	7.37	99	361266	115.29	ng	0.00
23) Nitrobenzene-d5	9.38	82	226456	73.59	ng	0.00
41) 2,4,6-Tribromophenol	16.30	330	123785	122.98	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	506220	79.41	ng	0.00
78) Terphenyl-d14	20.14	244	600342	68.75	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.08	128	21910	2.59	ng	99
49) Dimethylphthalate	14.26	163	53444	6.62	ng	99
51) Acenaphthene	14.88	154	22100	3.59	ng	94
54) Dibenzofuran	15.21	168	20290	2.42	ng	96
57) Fluorene	15.86	166	26574	3.54	ng	98
70) Phenanthrene	17.60	178	382987	35.29	ng	99
71) Anthracene	17.68	178	76752	6.97	ng	98
72) Carbazole	17.96	167	50182	4.88	ng	98
74) Fluoranthene	19.59	202	620041	47.85	ng	99
77) Pyrene	19.95	202	529306	42.13	ng	99
80) Benzo(a)anthracene	21.81	228	330140	26.33	ng	98
82) Chrysene	21.88	228	309223	25.67	ng	97
83) Bis(2-ethylhexyl)phthalate	21.69	149	62610	7.34	ng	# 98
85) Indeno(1,2,3-cd)pyrene	28.99	276	145670	10.17	ng	94
87) Benzo(b)fluoranthene	24.11	252	403523	32.59	ng	97
88) Benzo(k)fluoranthene	24.17	252	173950m	14.37	ng	
89) Benzo(a)pyrene	25.02	252	273509	22.80	ng	96
90) Dibenzo(a,h)anthracene	29.03	278	38237	3.18	ng	# 90
91) Benzo(a,h,i)perylene	30.20	276	137388	11.64	ng	96

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

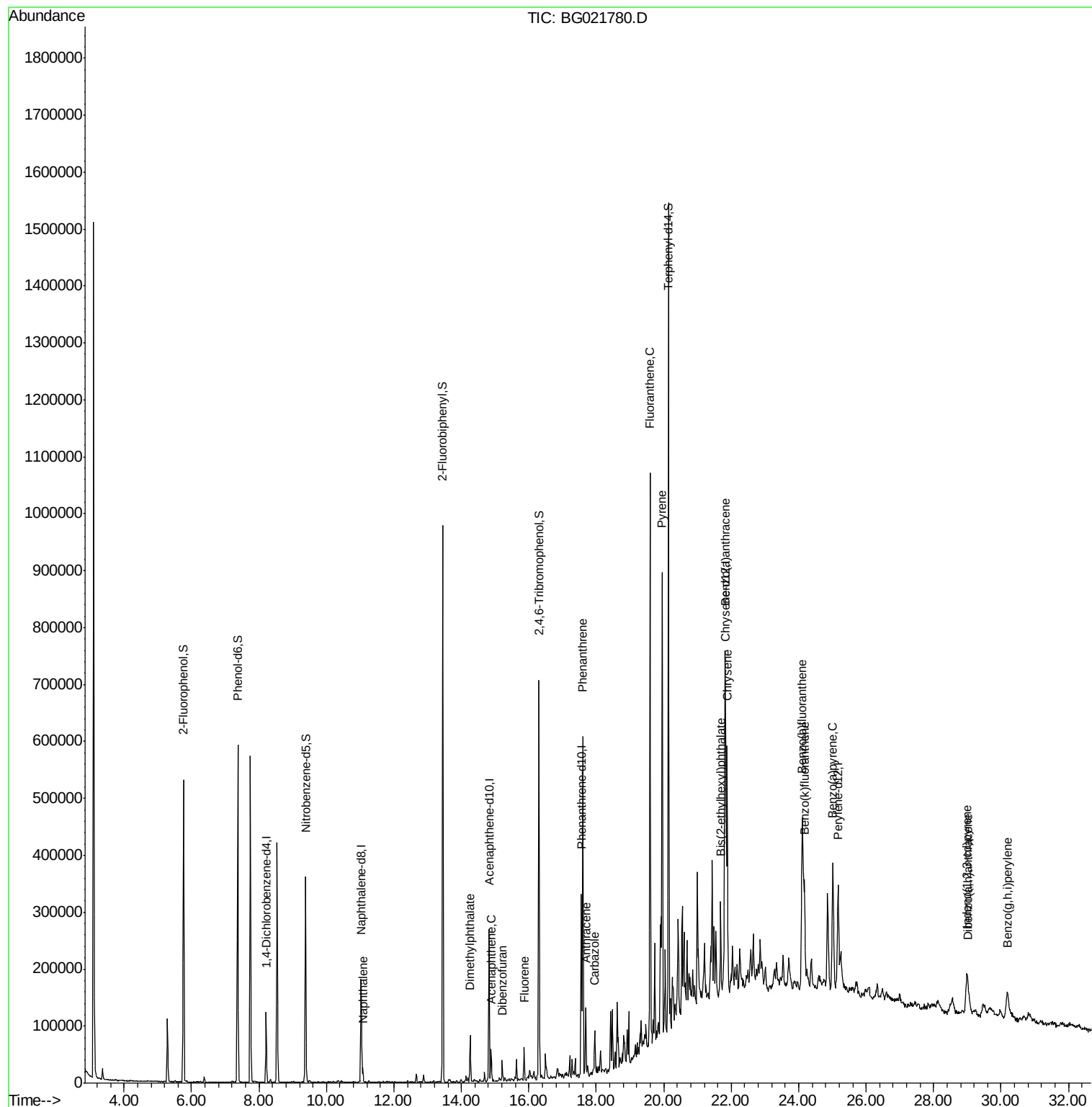
Data Path : Z:\HPCHEM1\BNA G\DATA\BG042116\
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ALS Vial : 4 Sample Multiplier: 1

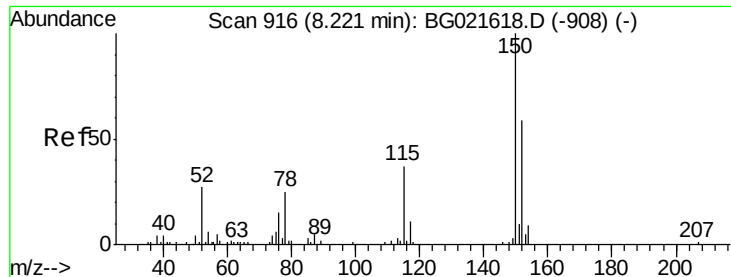
Instrument :
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EUT01-TU-B2(0-5)-C

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#1

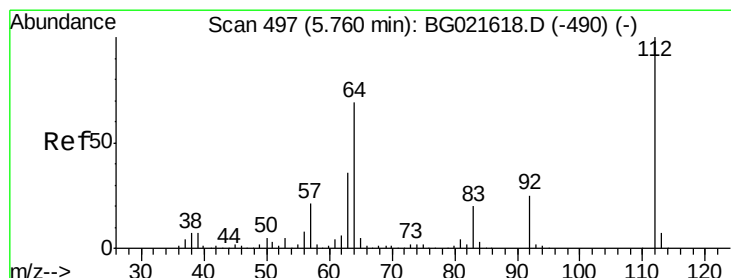
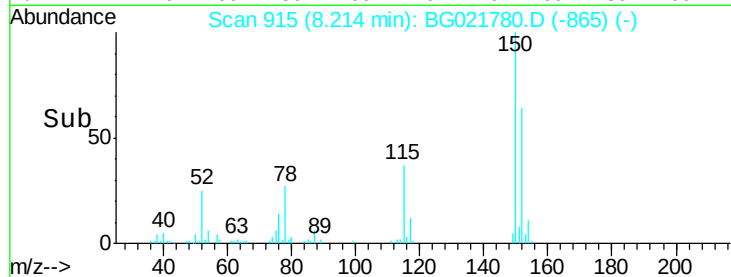
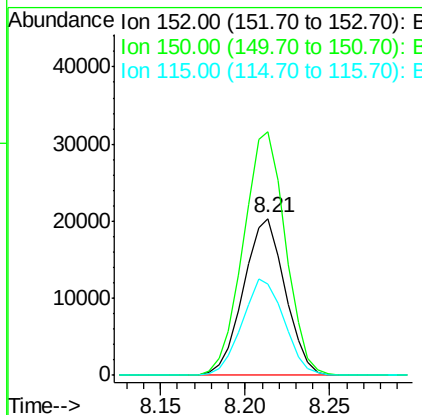
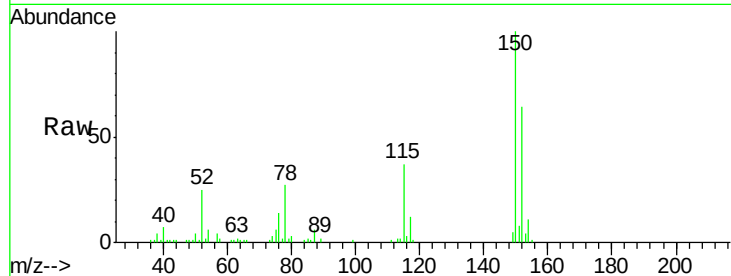
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.21 min Scan# 915
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	130.1	195.1
115	58.1	62.2	93.2

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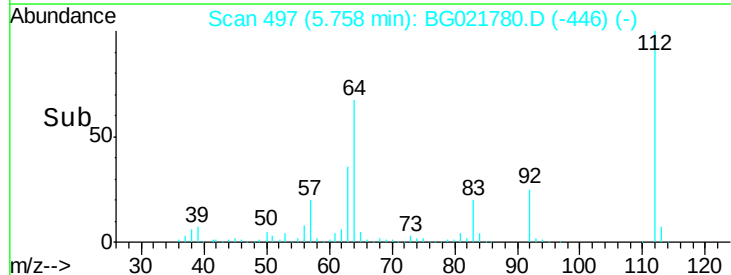
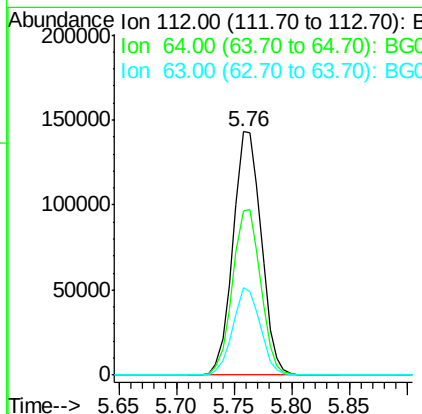
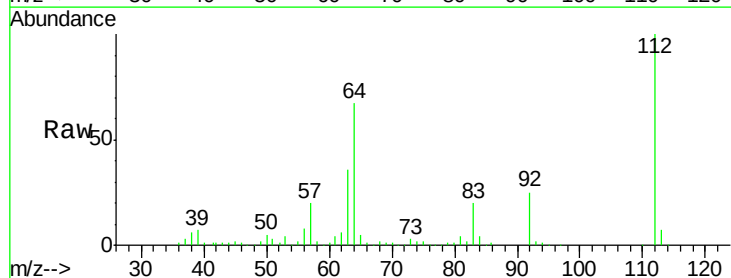
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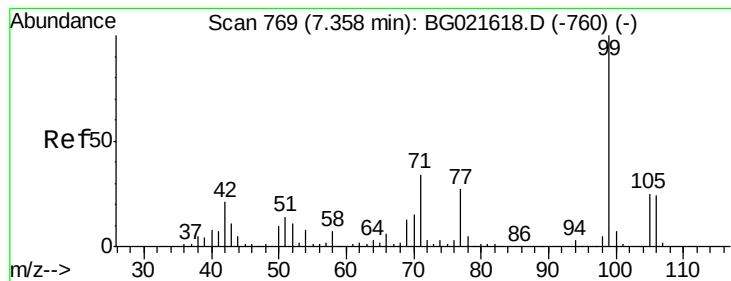


#5

2-Fluorophenol
Concen: 115.66 ng
RT: 5.76 min Scan# 497
Delta R.T. -0.00 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	51.1	76.7
63	35.9	24.6	37.0





#7

Phenol-d6

Concen: 115.29 ng

RT: 7.37 min Scan# 771

Delta R.T. 0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

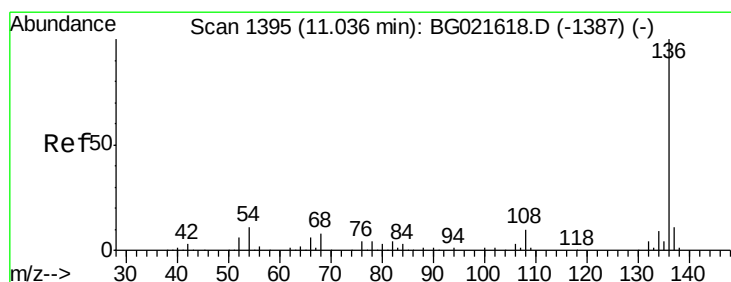
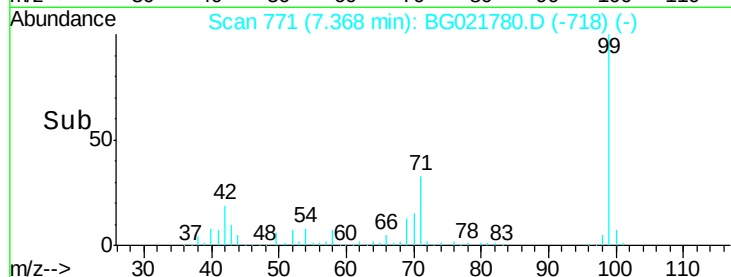
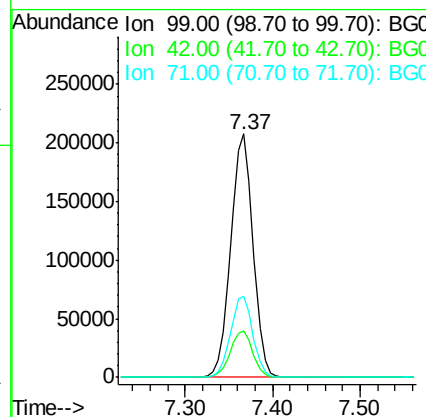
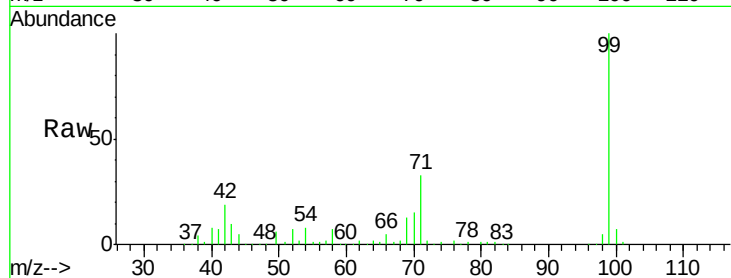
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		361266		
42	18.9	16.4	24.6		
71	33.2	25.0	37.4		

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#21

Naphthalene-d8

Concen: 20.00 ng

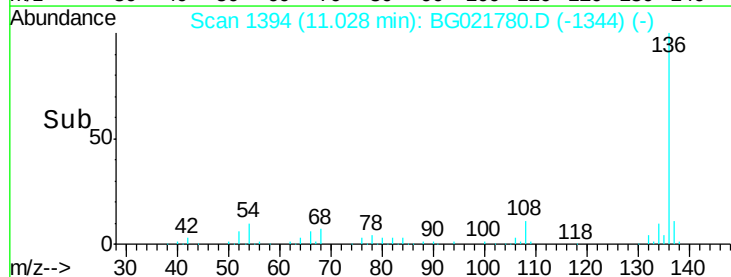
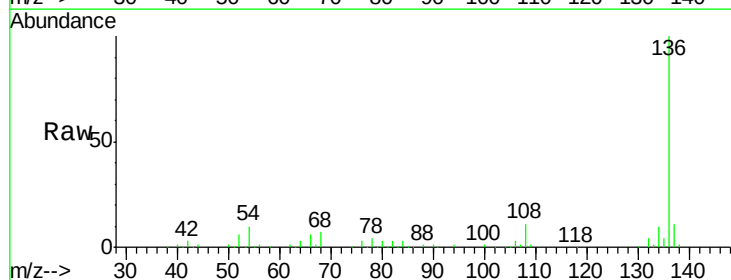
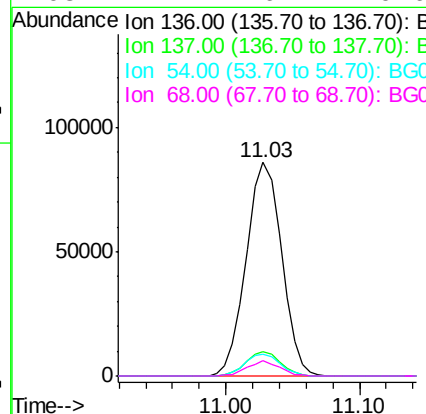
RT: 11.03 min Scan# 1394

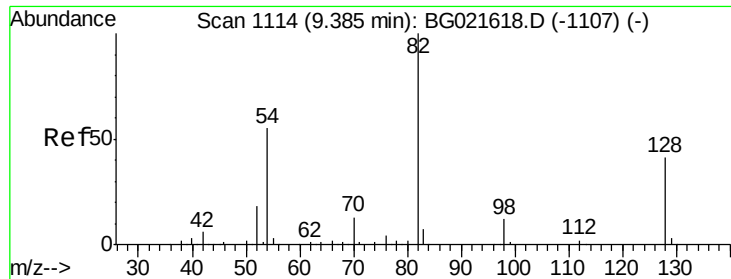
Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		158179		
137	11.3	9.0	13.4		
54	10.5	9.6	14.4		
68	7.2	6.4	9.6		





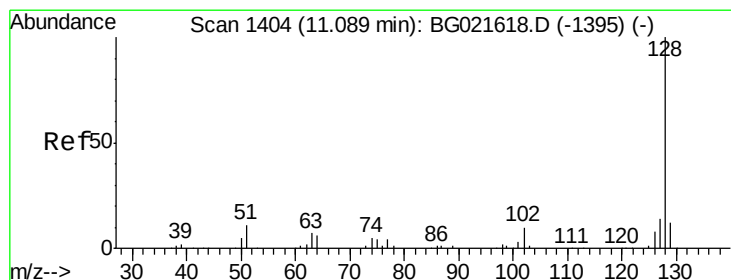
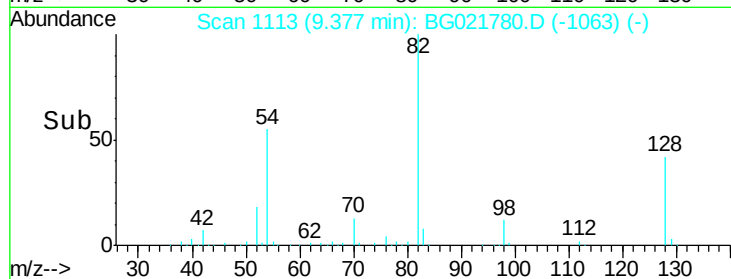
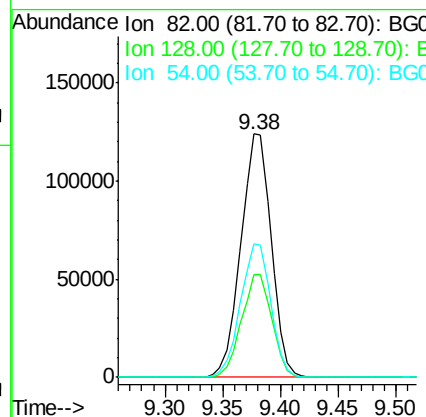
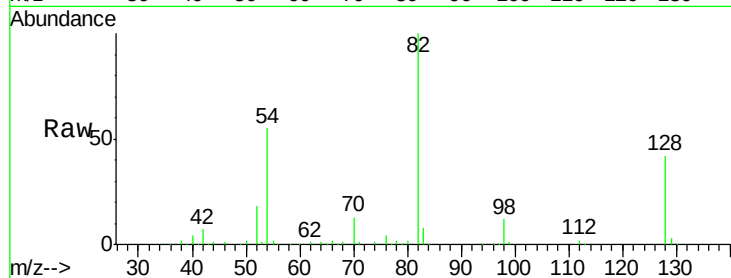
#23
Nitrobenzene-d5
Concen: 73.59 ng
RT: 9.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Resp	Lower	Upper
82	100	226456		
128	42.0		33.4	50.0
54	54.8		46.1	69.1

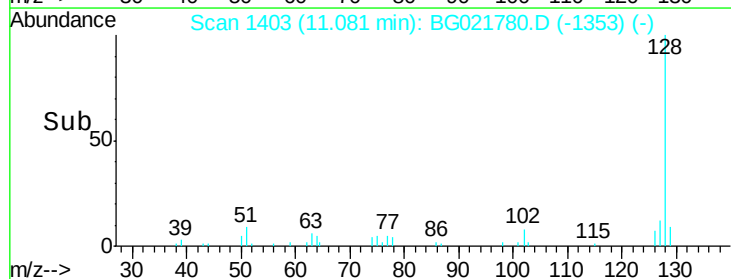
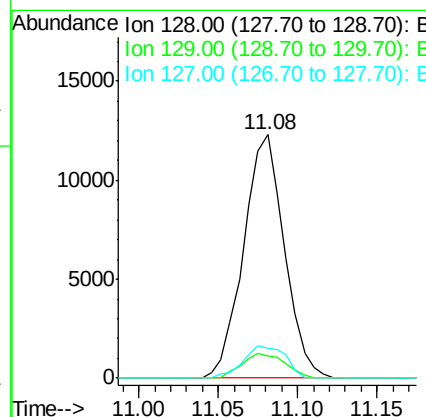
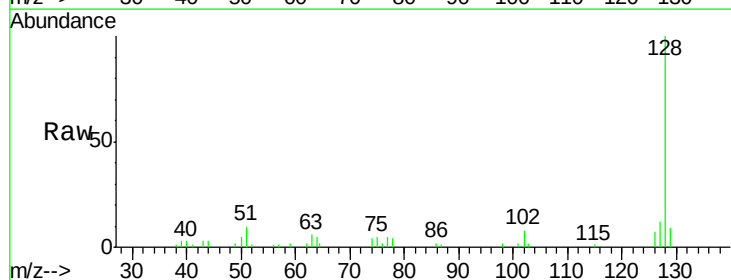
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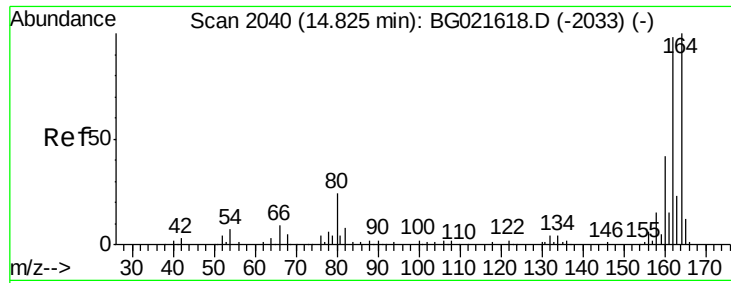
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#31
Naphthalene
Concen: 2.59 ng
RT: 11.08 min Scan# 1403
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	21910		
129	9.4		7.0	10.6
127	12.1		10.1	15.1





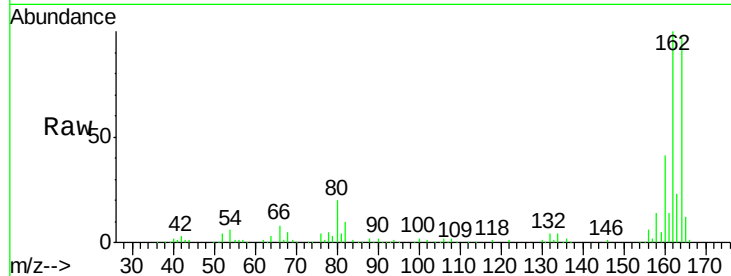
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.82 min Scan# 2039
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

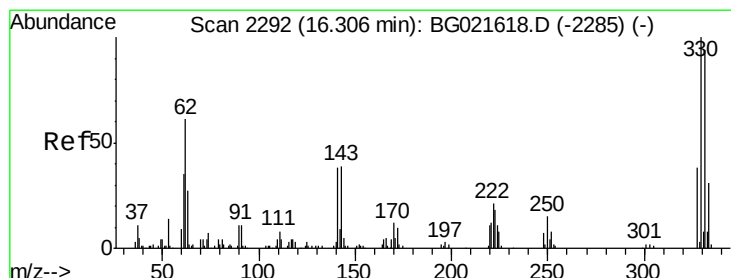
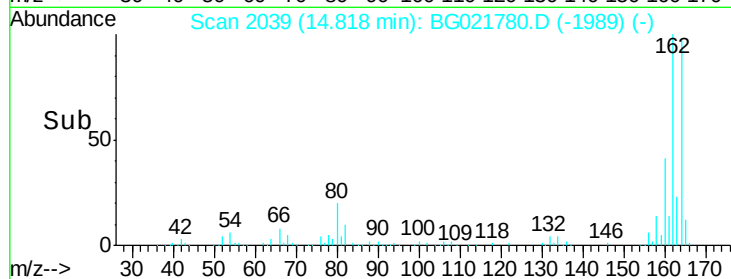
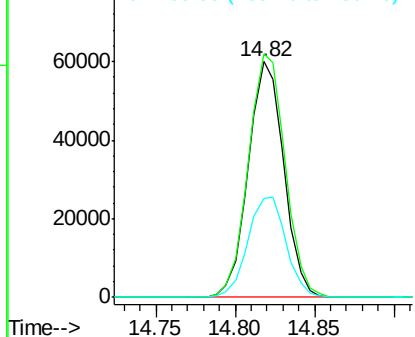
Tot Ion	Ratio	Lower	Upper
164	100		
162	103.4	78.0	117.0
160	42.3	32.9	49.3

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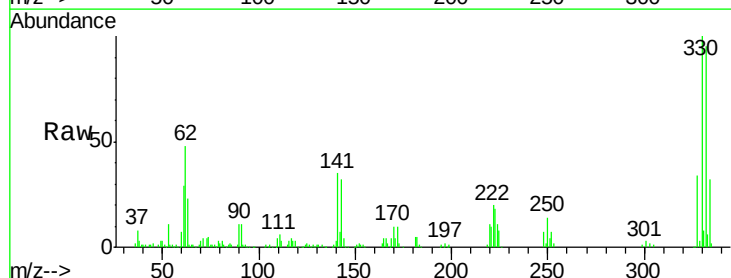


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

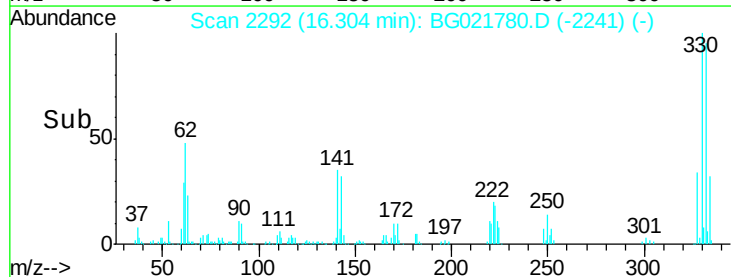
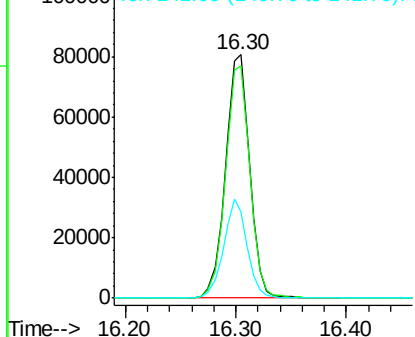


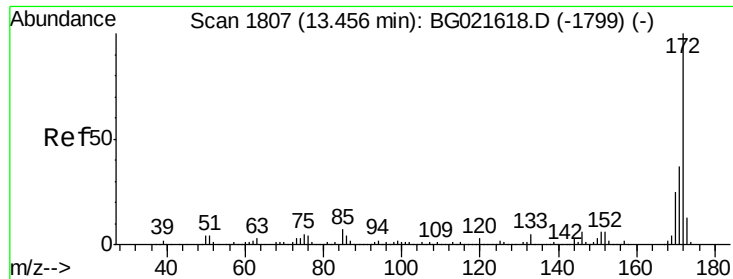
#41
2,4,6-Tribromophenol
Concen: 122.98 ng
RT: 16.30 min Scan# 2292
Delta R.T. -0.00 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.0	117.0
141	39.3	33.8	50.8



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





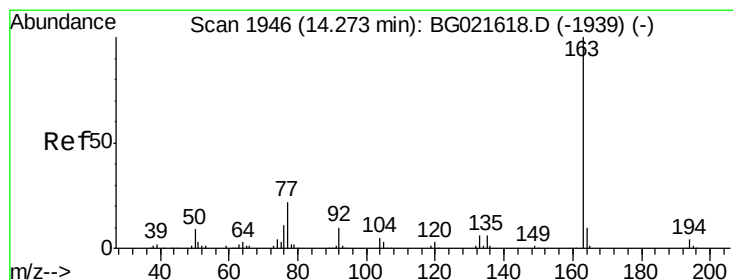
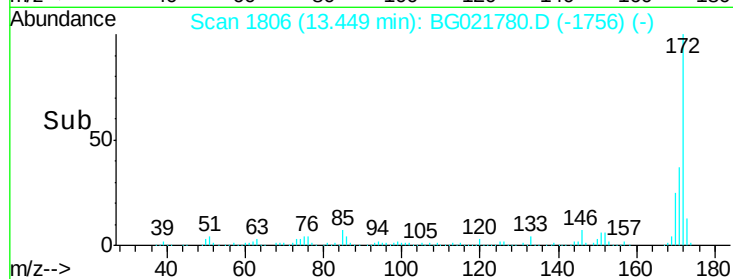
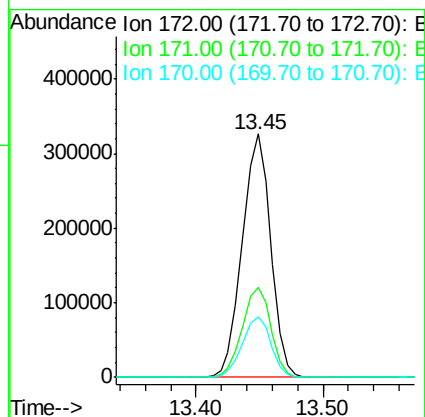
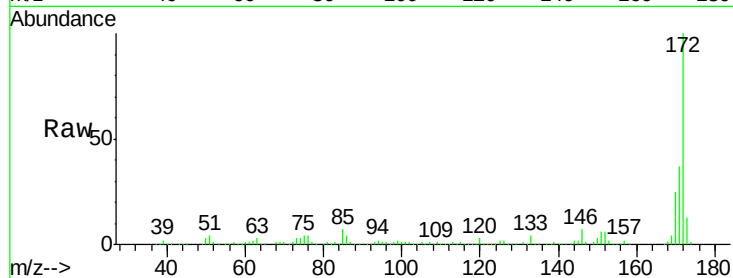
#44
2-Fluorobiphenyl
Concen: 79.41 ng
RT: 13.45 min Scan# 1806
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Resp	Lower	Upper
172	100	506220		
171	37.0		27.8	41.6
170	25.1		19.6	29.4

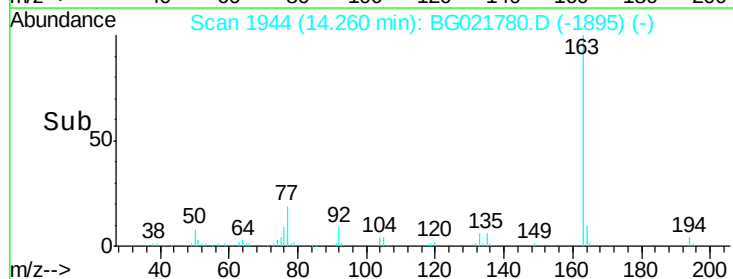
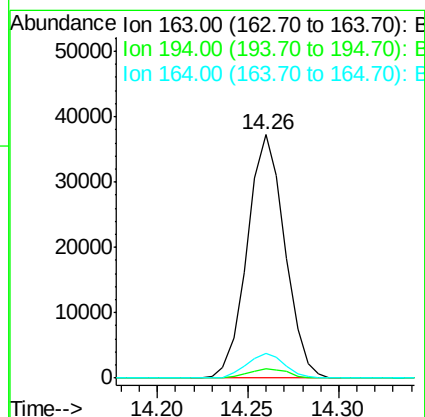
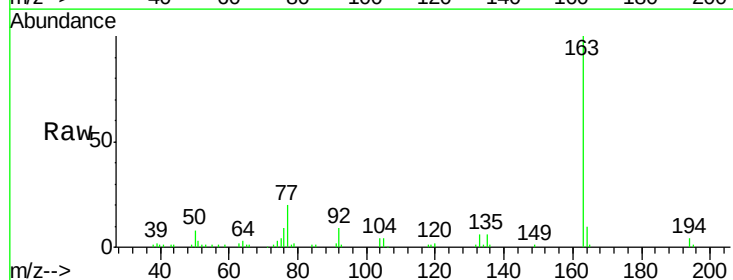
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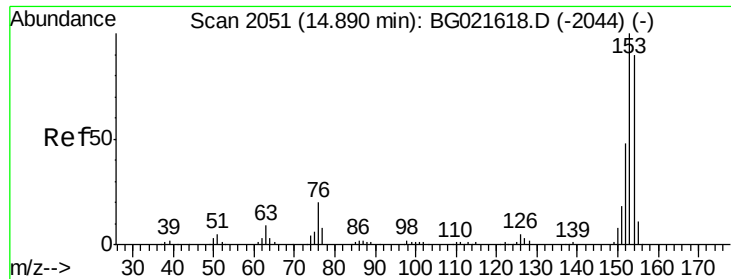
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#49
Dimethylphthalate
Concen: 6.62 ng
RT: 14.26 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	53444		
194	3.8		3.0	4.6
164	10.4		8.1	12.1





#51

Acenaphthene

Concen: 3.59 ng

RT: 14.88 min Scan# 2050

Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

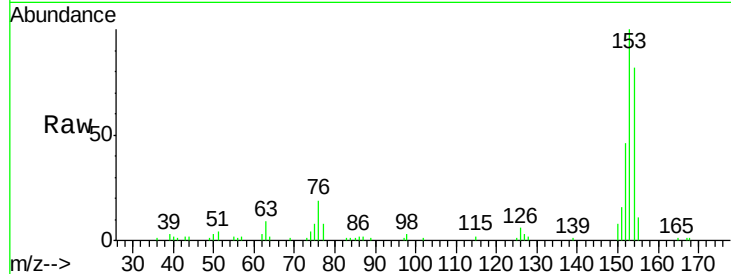
ClientSampleId :

EUT01-TU-B2(0-5)-C

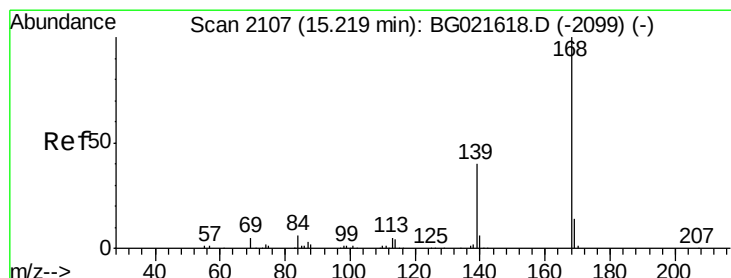
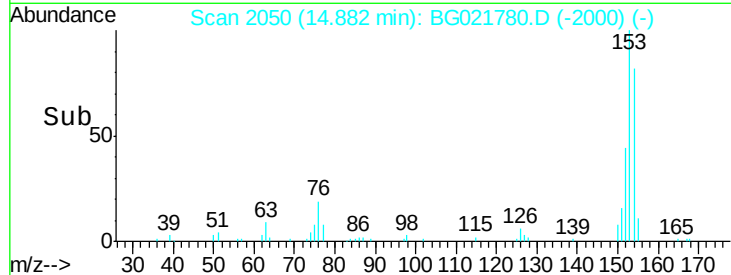
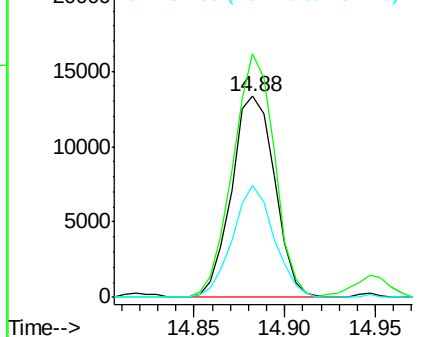
Tot Ion:	154	Resp:	22100
Ion Ratio	Lower	Upper	
154	100		
153	121.3	91.9	137.9
152	55.8	42.0	63.0

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.42 ng

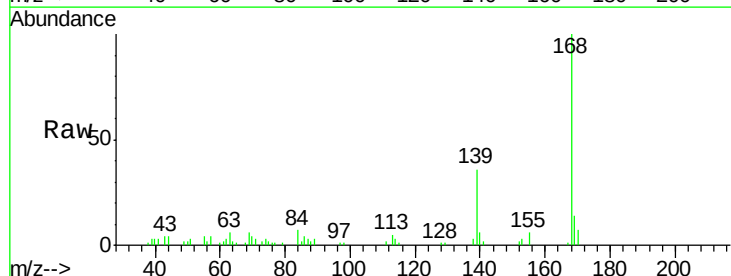
RT: 15.21 min Scan# 2106

Delta R.T. -0.01 min

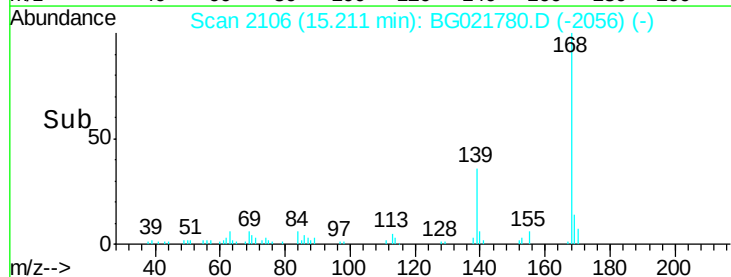
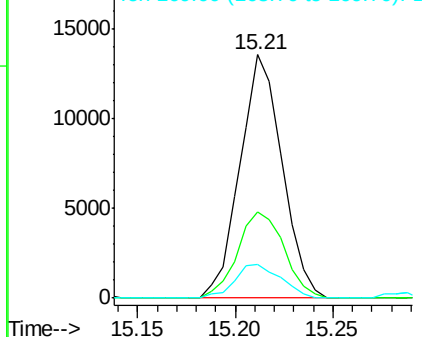
Lab File: BG021780.D

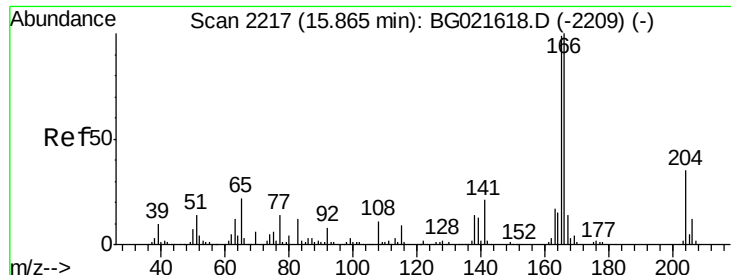
Acq: 20 Apr 2016 11:47

Tgt Ion:	168	Resp:	20290
Ion Ratio	Lower	Upper	
168	100		
139	35.6	31.1	46.7
169	14.0	11.0	16.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





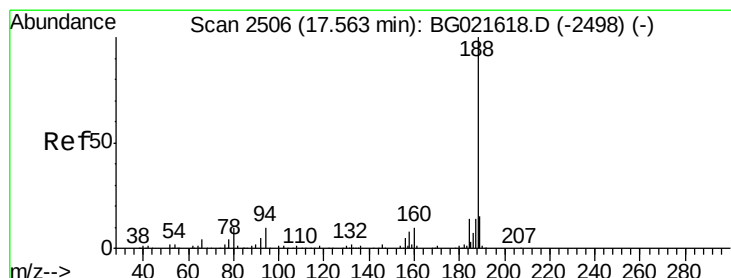
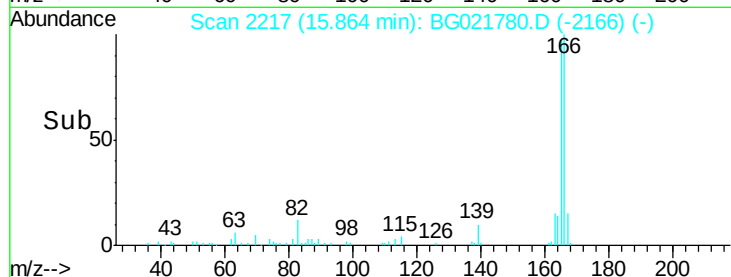
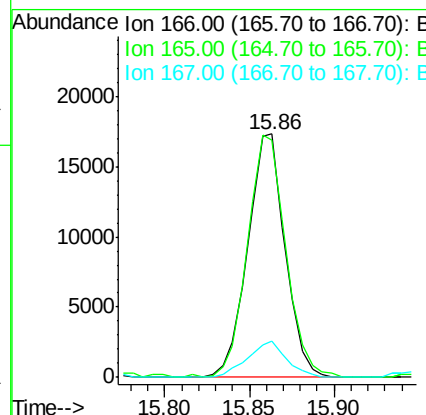
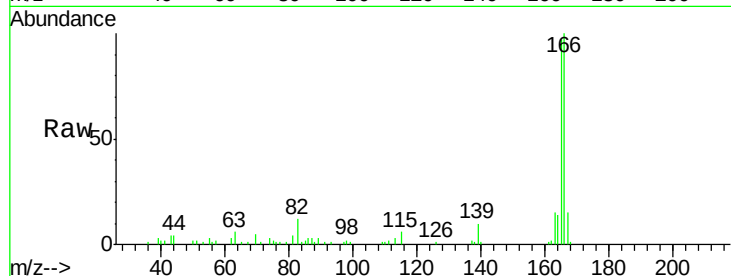
#57
Fluorene
 Concen: 3.54 ng
 RT: 15.86 min Scan# 2217
 Delta R.T. -0.00 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Instrument :
 BNA_G
 ClientSampleId :
 EUT01-TU-B2(0-5)-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		26574		
165	97.2	79.0	118.4		
167	15.1	10.7	16.1		

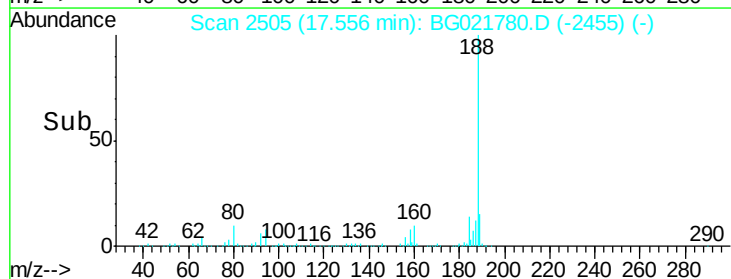
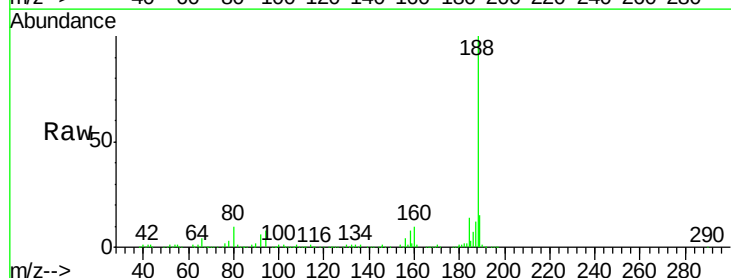
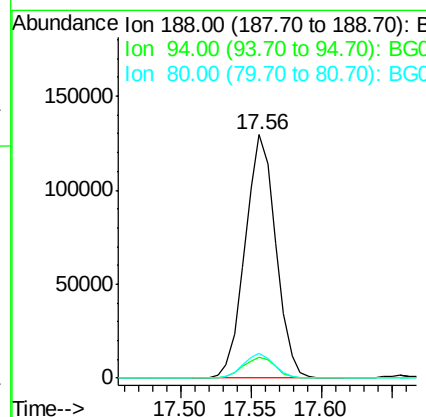
Manual Integrations
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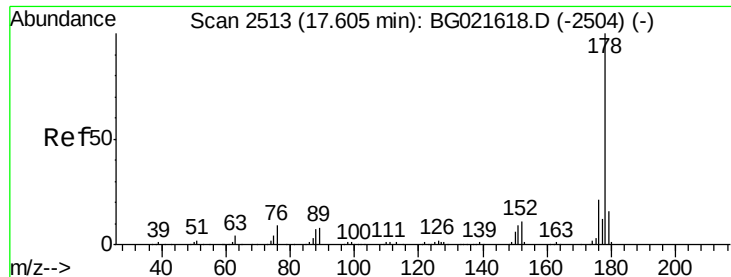
Sohil
 4/21/2016 10:37:51 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.56 min Scan# 2505
 Delta R.T. -0.01 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		196911		
94	8.5	7.5	11.3		
80	10.3	8.6	13.0		





#70

Phenanthrene

Concen: 35.29 ng

RT: 17.60 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

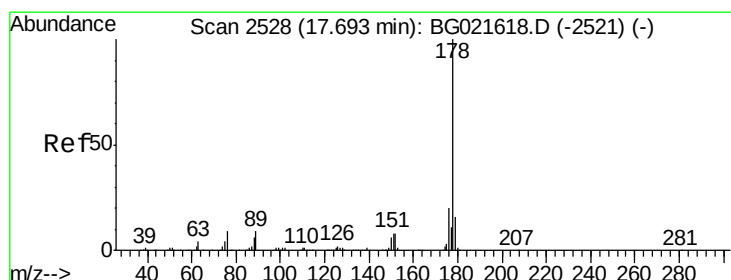
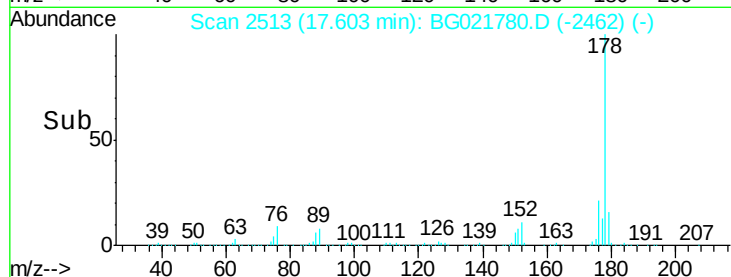
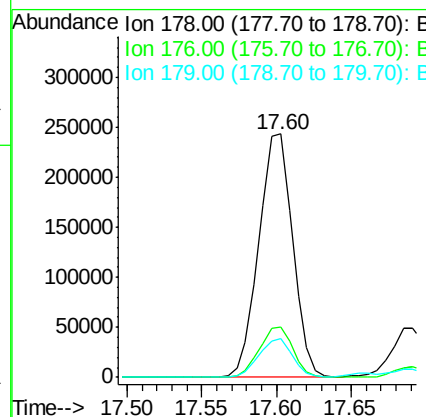
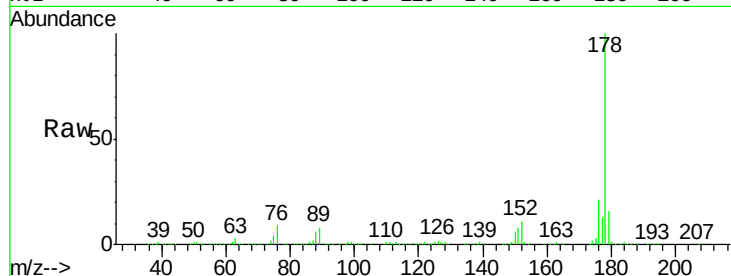
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion:	178	Resp:	382987
Ion Ratio	Lower	Upper	
178	100		
176	20.7	16.2	24.4
179	15.7	12.0	18.0

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#71

Anthracene

Concen: 6.97 ng

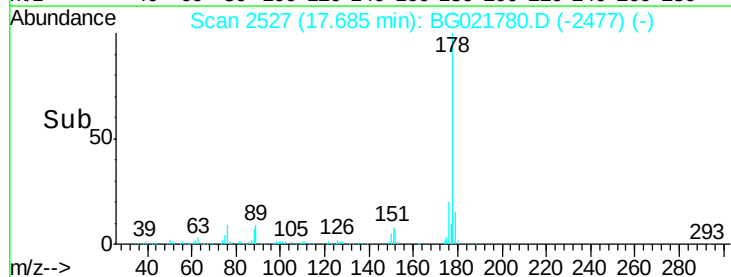
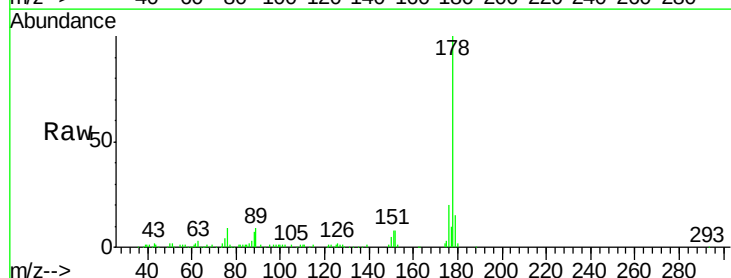
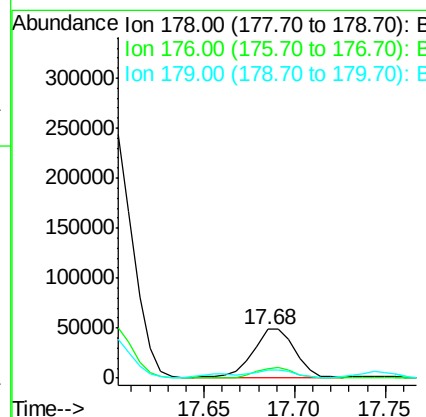
RT: 17.68 min Scan# 2527

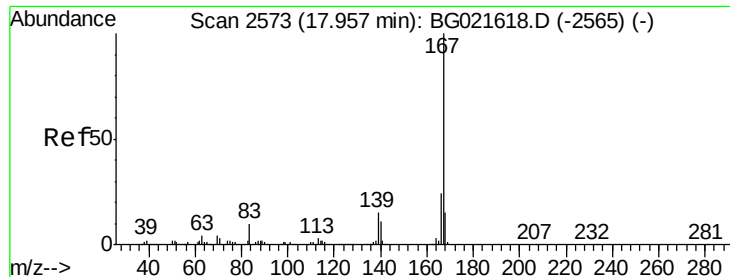
Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion:	178	Resp:	76752
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.0	22.4
179	15.4	12.2	18.4





#72

Carbazole

Concen: 4.88 ng

RT: 17.96 min Scan# 2573

Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

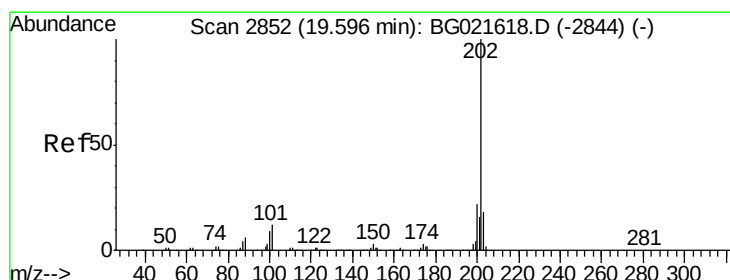
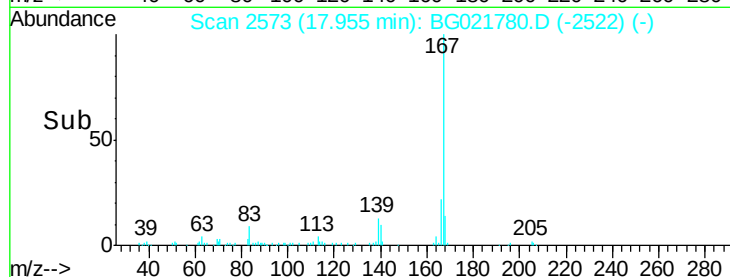
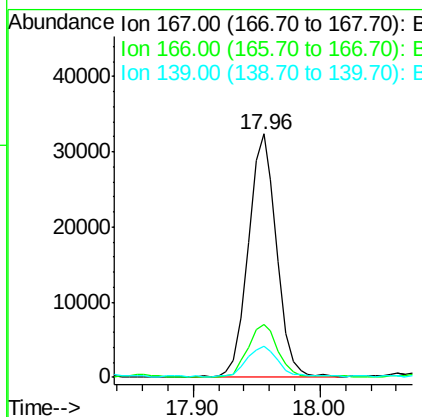
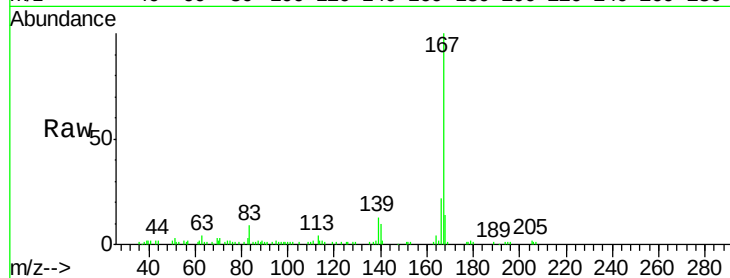
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion:	167	Resp:	50182
Ion Ratio	Lower	Upper	
167	100		
166	21.7	18.6	27.8
139	12.8	10.6	15.8

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#74

Fluoranthene

Concen: 47.85 ng

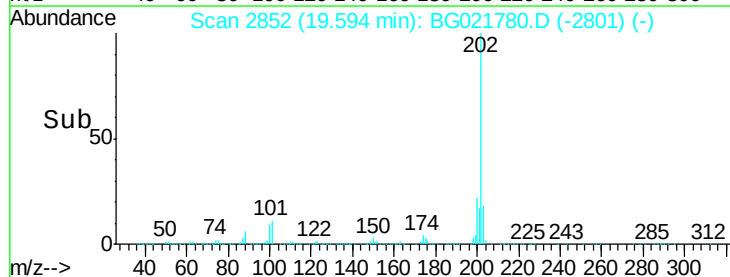
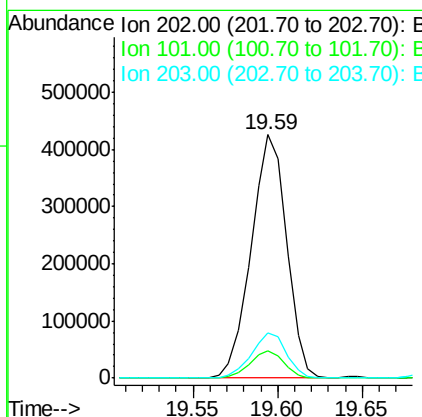
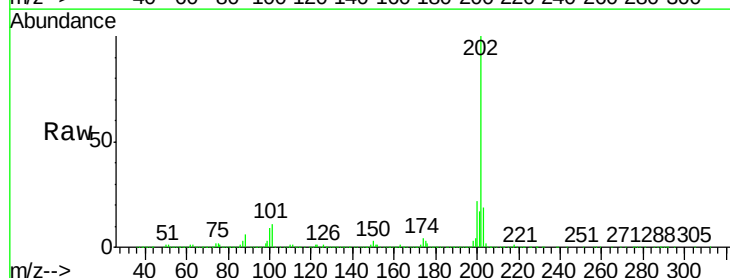
RT: 19.59 min Scan# 2852

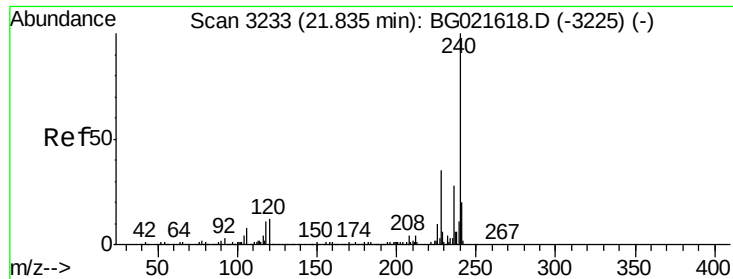
Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion:	202	Resp:	620041
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	31.0
203	18.6	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.83 min Scan# 3233

Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

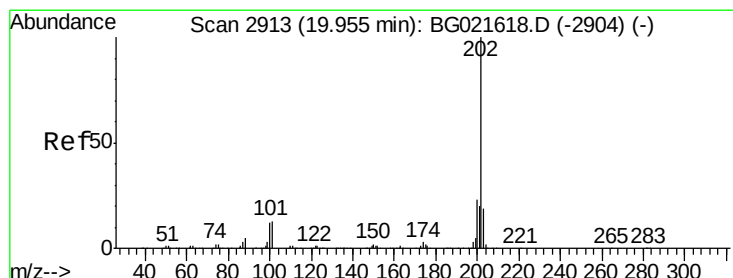
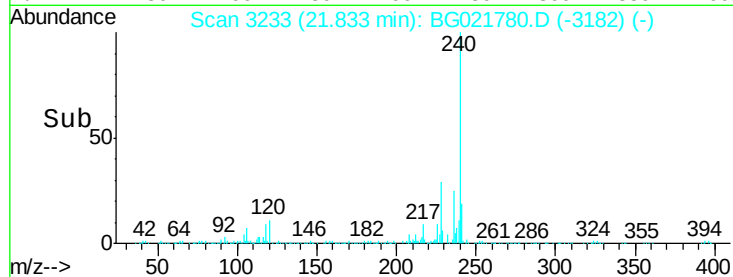
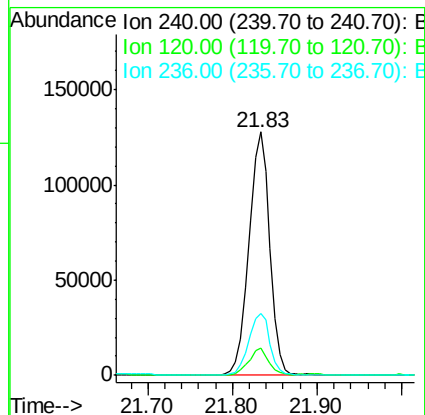
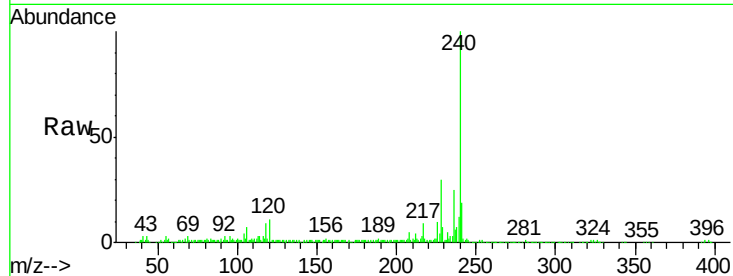
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion:	240	Resp:	217887
Ion Ratio	Lower	Upper	
240	100		
120	11.0	8.4	12.6
236	25.3	19.6	29.4

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#77

Pyrene

Concen: 42.13 ng

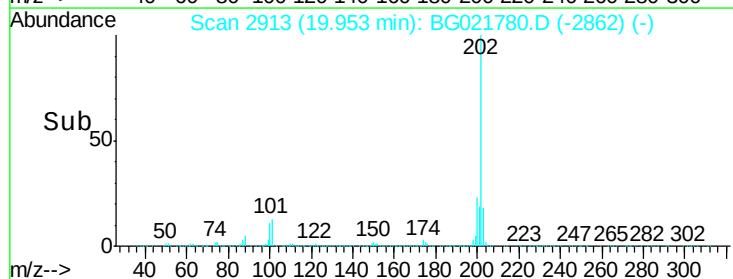
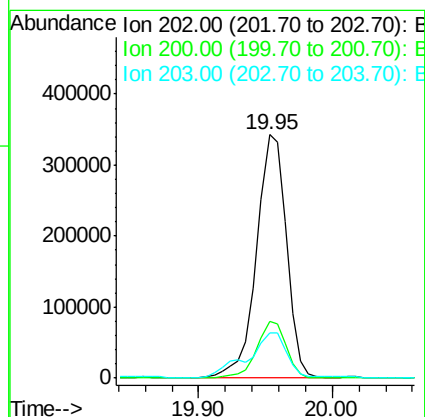
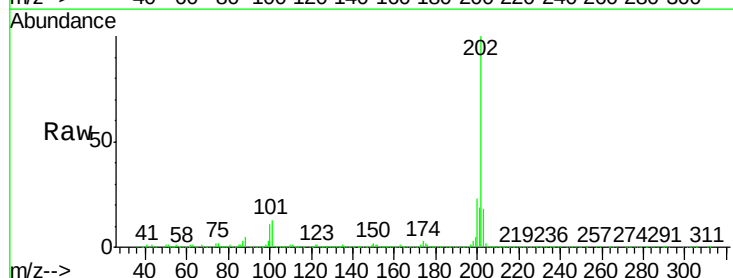
RT: 19.95 min Scan# 2913

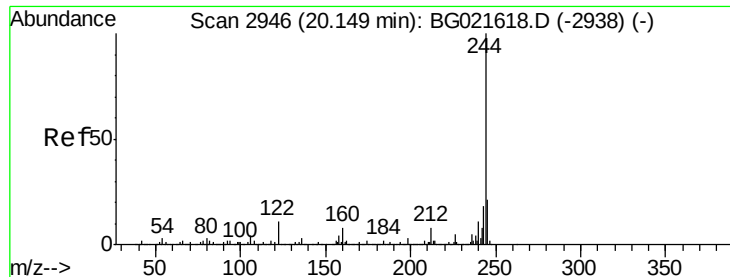
Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion:	202	Resp:	529306
Ion Ratio	Lower	Upper	
202	100		
200	23.2	18.2	27.2
203	18.4	15.0	22.4





#78

Terphenyl-d14

Concen: 68.75 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

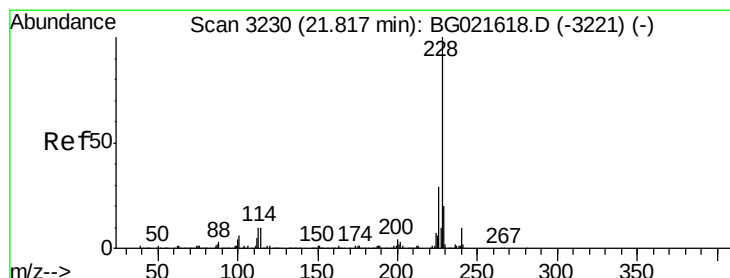
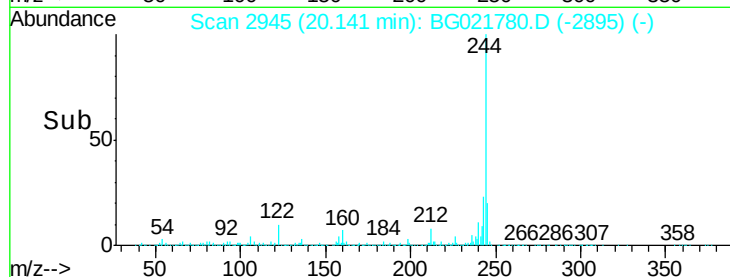
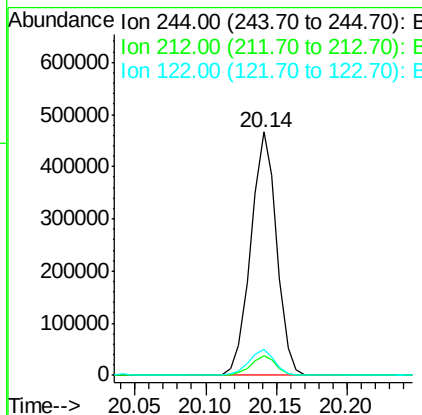
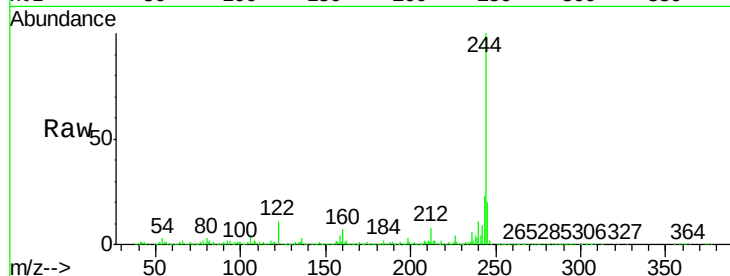
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.5	9.7
122	10.5	8.6	12.8

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#80

Benzo(a)anthracene

Concen: 26.33 ng

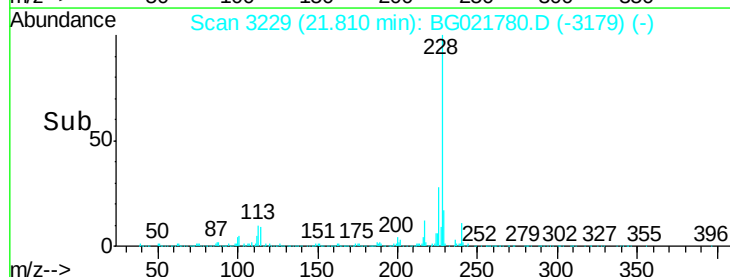
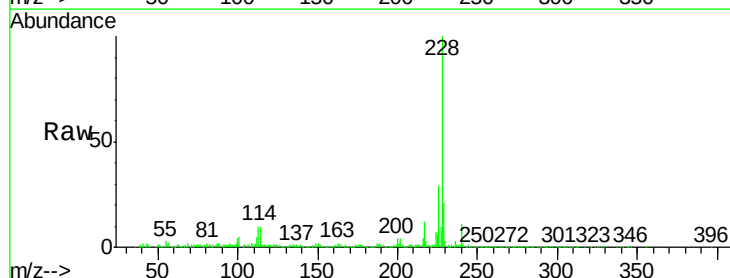
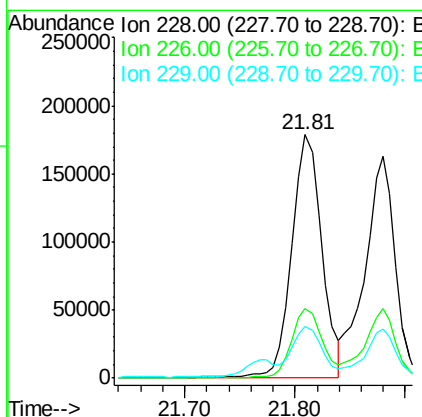
RT: 21.81 min Scan# 3229

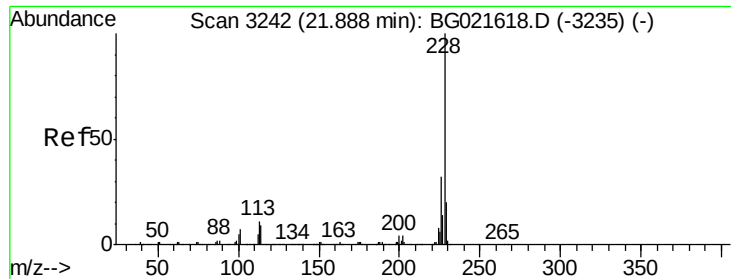
Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	34.0
229	21.3	16.1	24.1





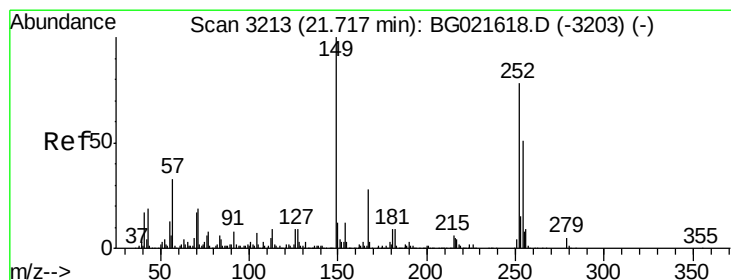
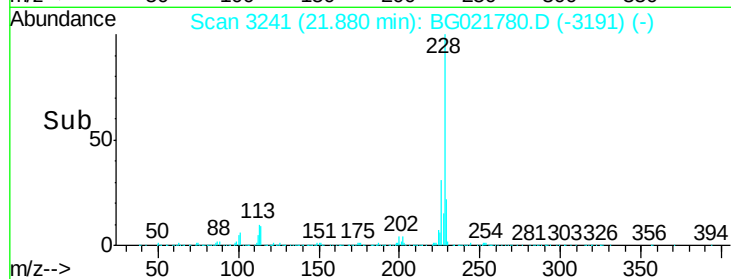
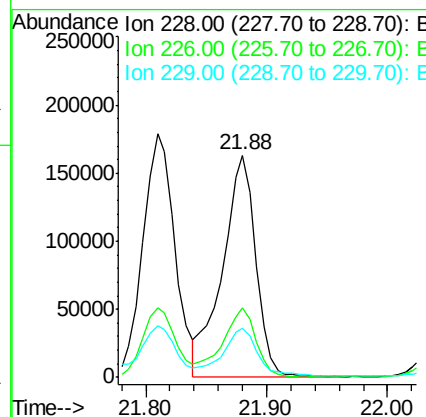
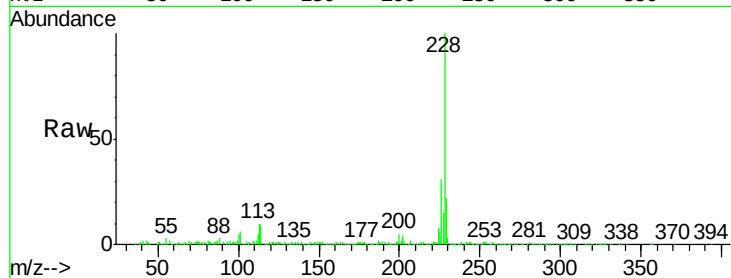
#82
Chrysene
Concen: 25.67 ng
RT: 21.88 min Scan# 3241
Delta R.T. -0.01 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Resp	Lower	Upper
228	100			
226	31.1	25.4	38.0	
229	22.4	15.9	23.9	

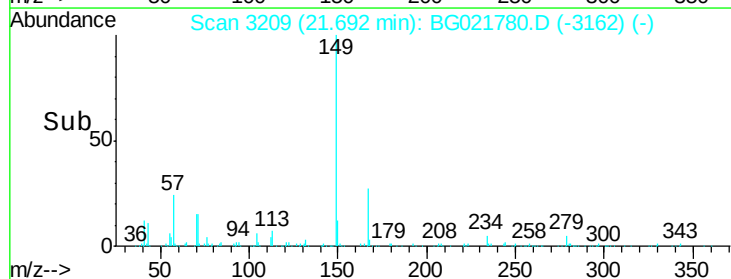
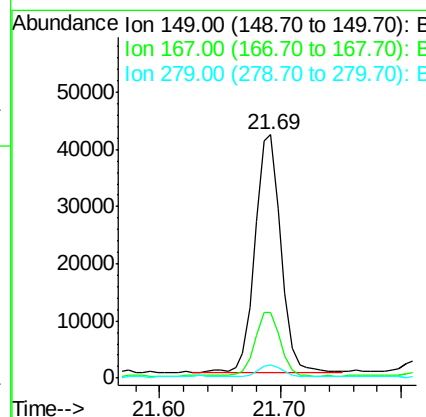
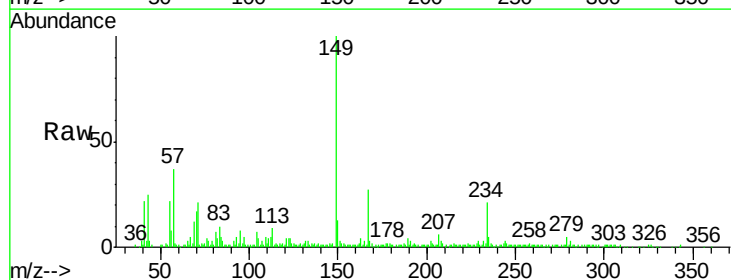
Manual Integrations
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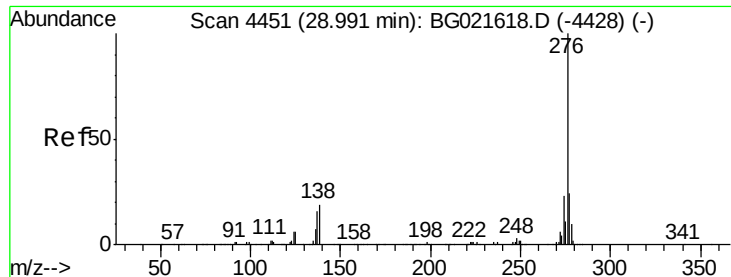
Sohil
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#83
Bis(2-ethylhexyl)phthalate
Concen: 7.34 ng
RT: 21.69 min Scan# 3209
Delta R.T. -0.03 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
167	26.9	22.4	33.6	
279	5.3	3.2	4.8	





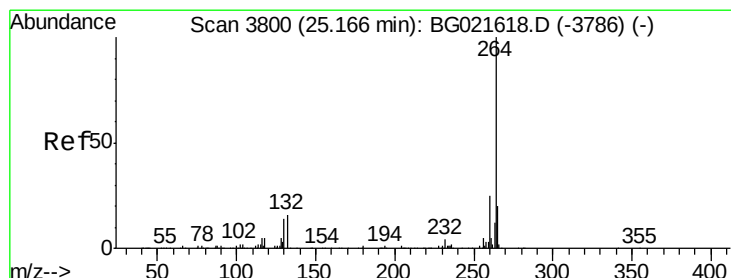
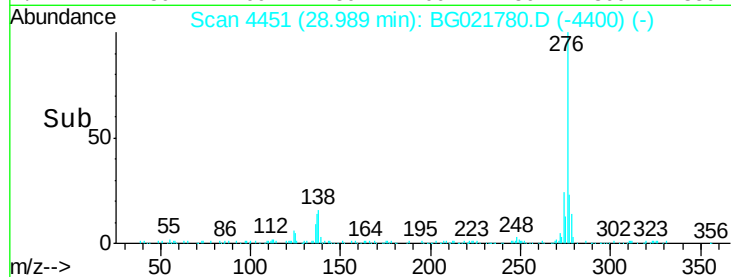
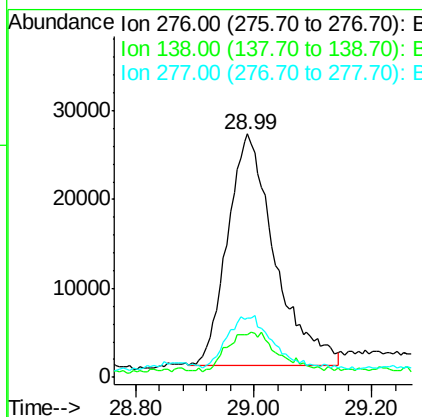
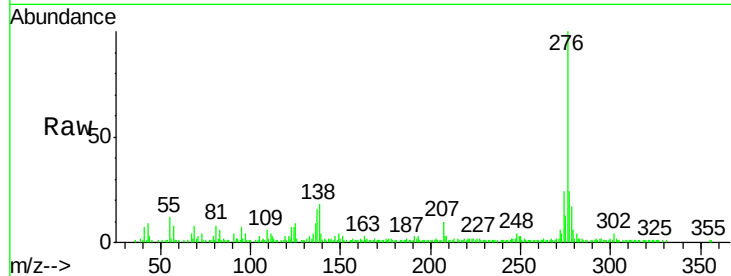
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.17 ng
RT: 28.99 min Scan# 4451
Delta R.T. -0.00 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion:276	Resp:	145670
Ion Ratio	Lower	Upper
276 100		
138 18.0	14.0	21.0
277 21.2	20.6	30.8

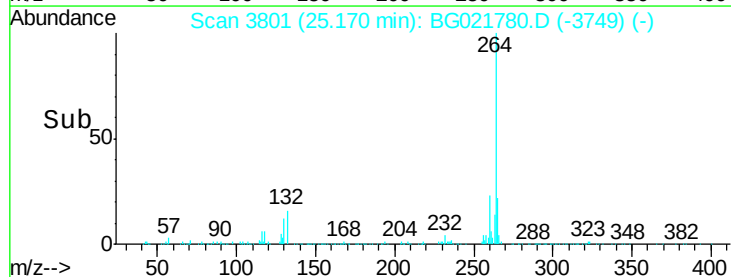
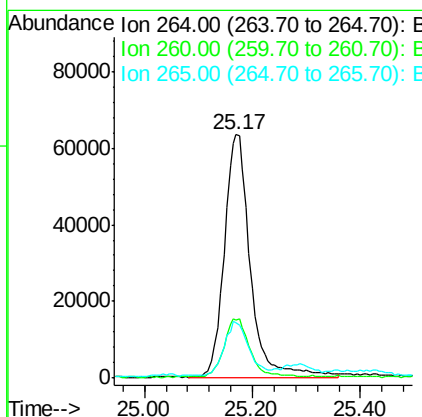
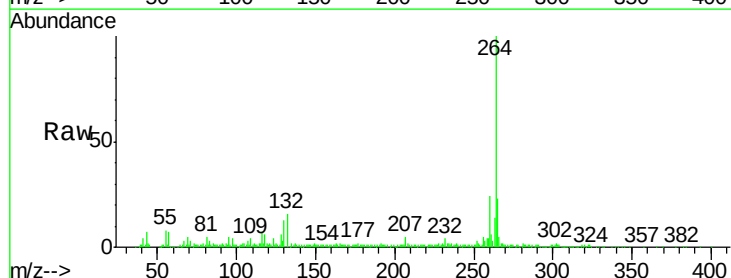
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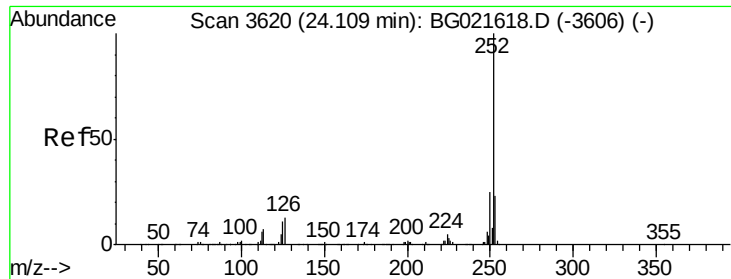
Sohil
4/21/2016 10:37:51 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 25.17 min Scan# 3801
Delta R.T. 0.00 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion:264	Resp:	213411
Ion Ratio	Lower	Upper
264 100		
260 23.8	20.2	30.4
265 22.6	17.8	26.8





#87

Benzo(b)fluoranthene

Concen: 32.59 ng

RT: 24.11 min Scan# 3620

Delta R.T. -0.00 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Instrument :

BNA_G

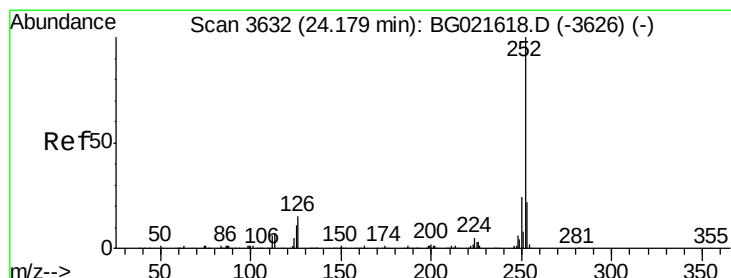
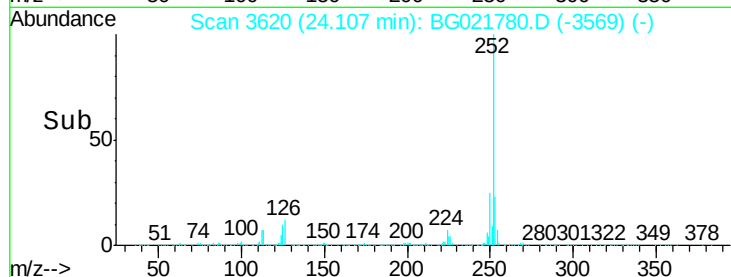
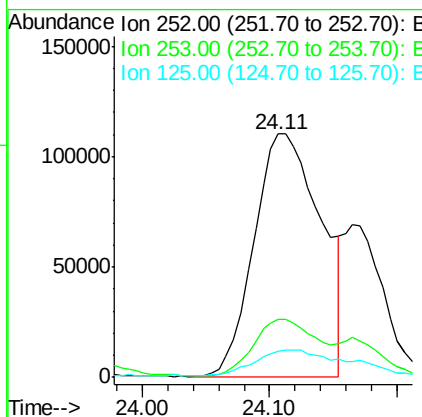
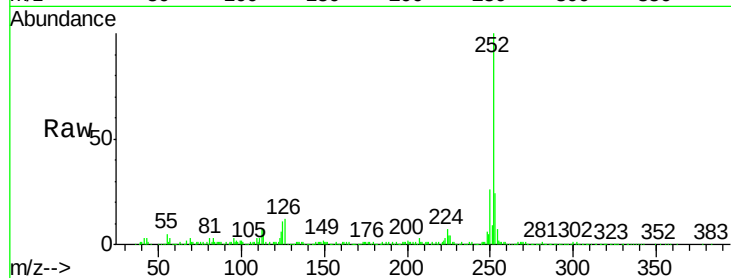
ClientSampleId :

EUT01-TU-B2(0-5)-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	10.6	8.6	13.0

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#88

Benzo(k)fluoranthene

Concen: 14.37 ng m

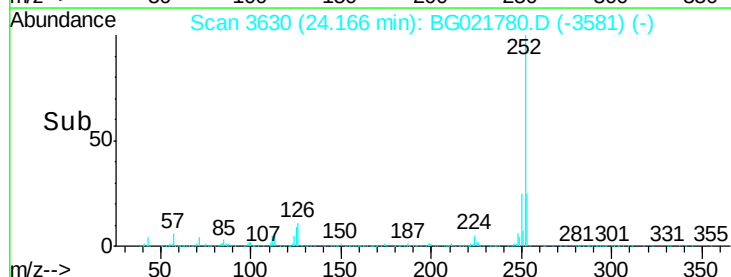
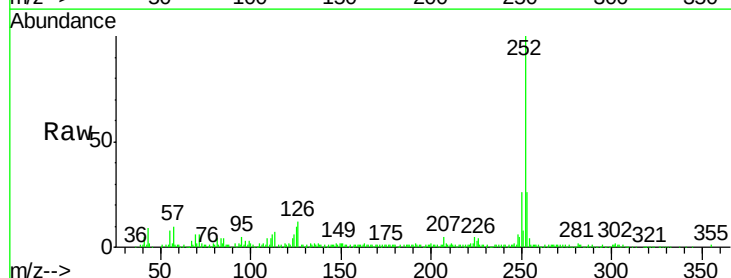
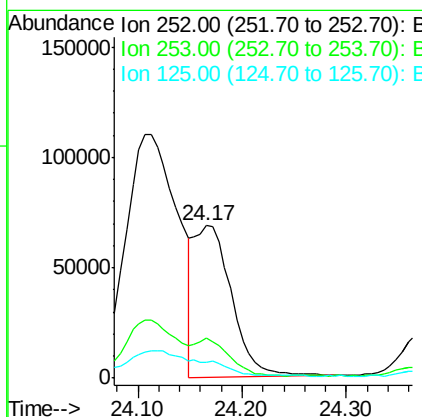
RT: 24.17 min Scan# 3630

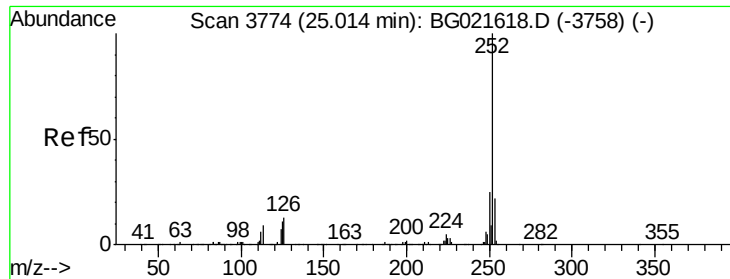
Delta R.T. -0.01 min

Lab File: BG021780.D

Acq: 20 Apr 2016 11:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.8	26.8
125	10.5	8.3	12.5





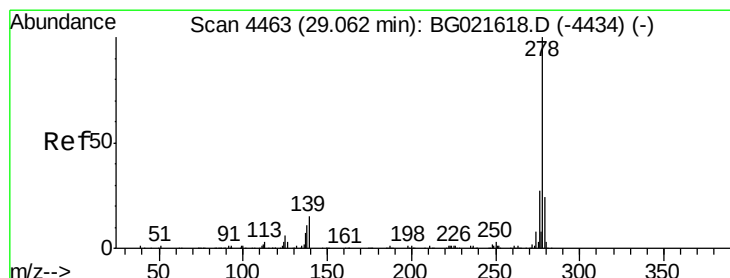
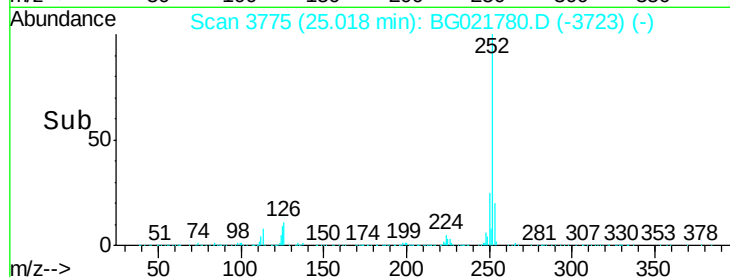
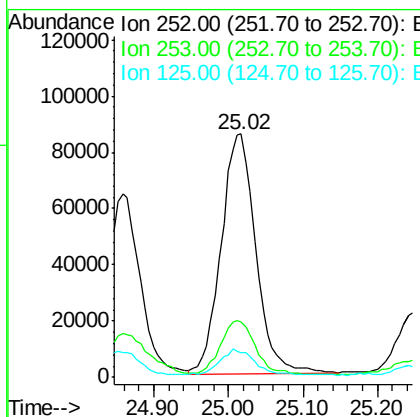
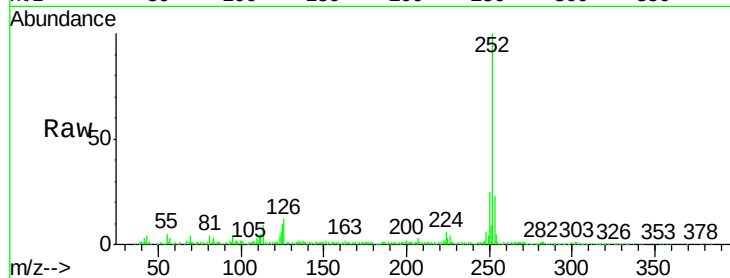
#89
Benzo(a)pyrene
Concen: 22.80 ng
RT: 25.02 min Scan# 3775
Delta R.T. 0.00 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Instrument :
BNA_G
ClientSampleId :
EUT01-TU-B2(0-5)-C

Tot Ion:	252	Resp:	273509
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.1	25.7
125	10.3	9.6	14.4

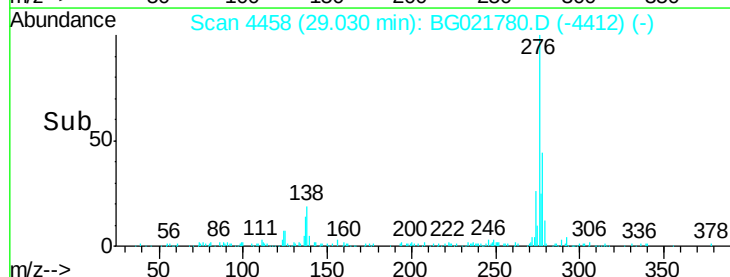
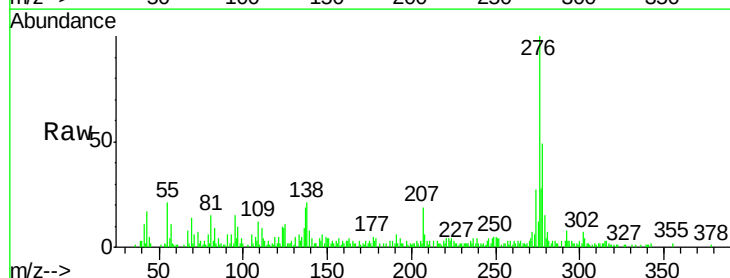
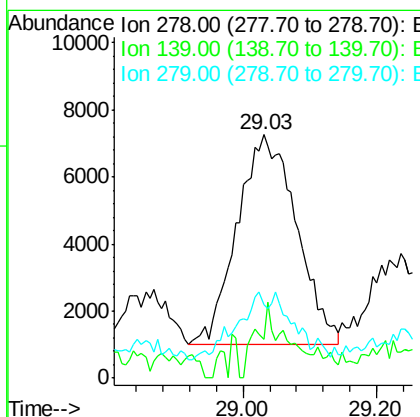
Manual Integrations
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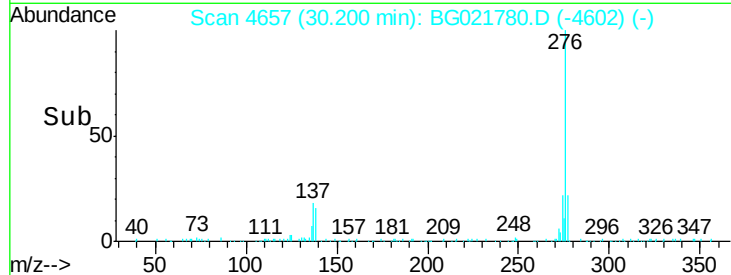
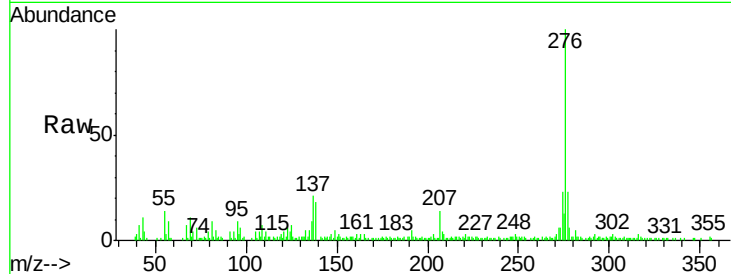
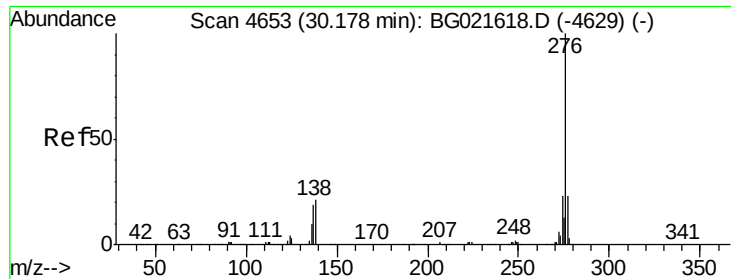
Sohil
4/21/2016 10:37:51 AM



#90
Dibenzo(a,h)anthracene
Concen: 3.18 ng
RT: 29.03 min Scan# 4458
Delta R.T. -0.03 min
Lab File: BG021780.D
Acq: 20 Apr 2016 11:47

Tgt Ion:	278	Resp:	38237
Ion Ratio	Lower	Upper	
278	100		
139	15.8	11.9	17.9
279	30.2	18.2	27.2#





#91
 Benzo(a,h,i)perylene
 Concen: 11.64 ng
 RT: 30.20 min Scan# 4657
 Delta R.T. 0.02 min
 Lab File: BG021780.D
 Acq: 20 Apr 2016 11:47

Instrument :
 BNA_G
 ClientSampleId :
 EUT01-TU-B2(0-5)-C

Tot Ion:	276	Resp:	137388
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.4	29.2
138	18.4	17.4	26.0

Manual Integrations
 APPROVED

Sohil
 4/21/2016 10:37:51 AM

