

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022716\
 Data File : BG021146.D
 Acq On : 28 Feb 2016 11:21
 Operator : UM/SJ
 Sample : H1442-01 20X
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Manual Integrations
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Sohil
 2/29/2016 12:39:33 PM

Quant Time: Feb 29 01:31:25 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 26 16:39:44 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	9742	20.00	ng	-0.01
21) Naphthalene-d8	10.98	136	47195	20.00	ng	-0.01
38) Acenaphthene-d10	14.77	164	28463	20.00	ng	-0.01
63) Phenanthrene-d10	17.51	188	62133	20.00	ng	-0.01
75) Chrysene-d12	21.77	240	64400	20.00	ng	-0.02
86) Perylene-d12	25.05	264	59780	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	2937	5.28	ng	0.00
7) Phenol-d6	7.31	99	4507	5.44	ng	-0.02
23) Nitrobenzene-d5	9.32	82	3319	3.35	ng	-0.03
41) 2,4,6-Tribromophenol	16.25	330	1017	2.73	ng	-0.01
44) 2-Fluorobiphenyl	13.40	172	6471	2.91	ng	-0.01
78) Terphenyl-d14	20.09	244	7774	2.82	ng	-0.02
Target Compounds						Qvalue
51) Acenaphthene	14.83	154	4695	2.39	ng	93
54) Dibenzofuran	15.16	168	5309	2.14	ng	91
57) Fluorene	15.81	166	5189	2.15	ng	90
70) Phenanthrene	17.55	178	83704	25.04	ng	97
71) Anthracene	17.64	178	16523	4.91	ng	98
72) Carbazole	17.91	167	7562	2.60	ng	98
74) Fluoranthene	19.54	202	79185	18.88	ng	99
77) Pyrene	19.90	202	69806	19.58	ng	98
80) Benzo(a)anthracene	21.75	228	31883	8.60	ng	98
82) Chrysene	21.81	228	28960	8.12	ng	99
85) Indeno(1,2,3-cd)pyrene	28.79	276	14161	3.29	ng	# 100
87) Benzo(b)fluoranthene	24.00	252	29701	7.95	ng	95
88) Benzo(k)fluoranthene	24.06	252	11542m	3.13	ng	
89) Benzo(a)pyrene	24.89	252	23224	6.47	ng	96
91) Benzo(a,h,i)perylene	29.95	276	13092	3.76	ng	# 93

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

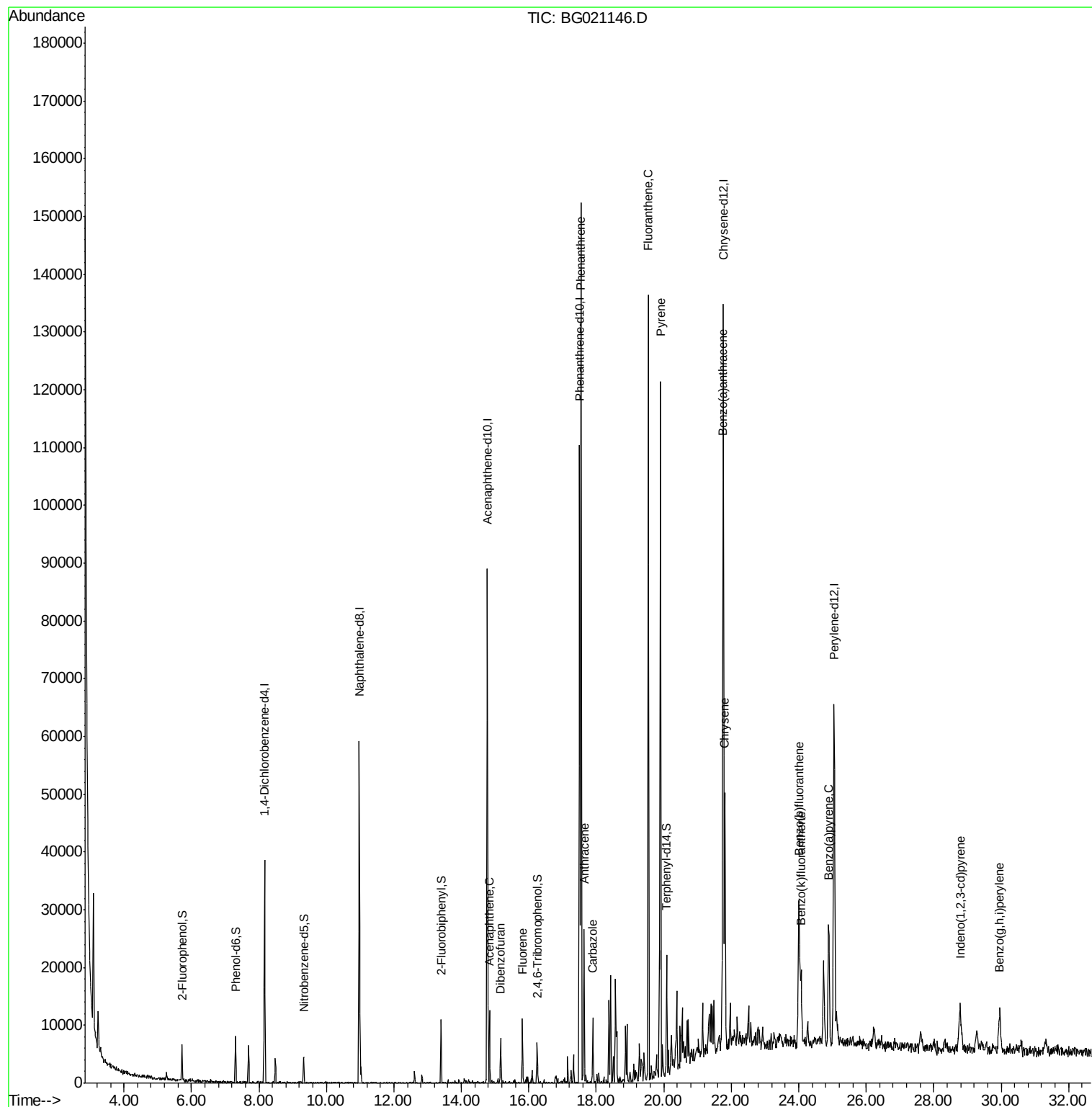
Data Path : Z:\HPCHEM1\BNA G\DATA\BG022716\
Data File : BG021146.D
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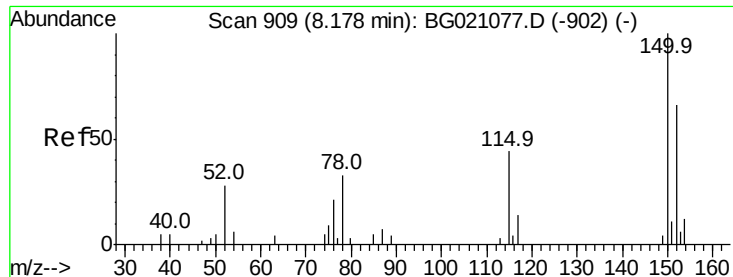
Instrument :
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POST-EX-10-20160211

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#1

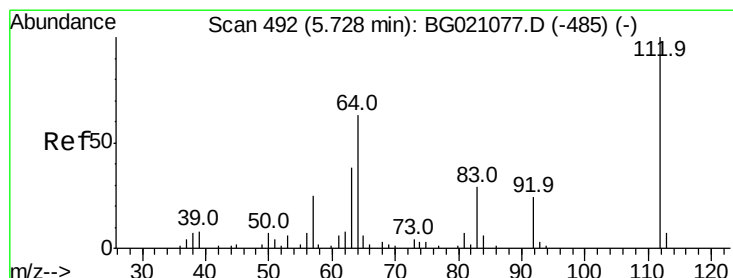
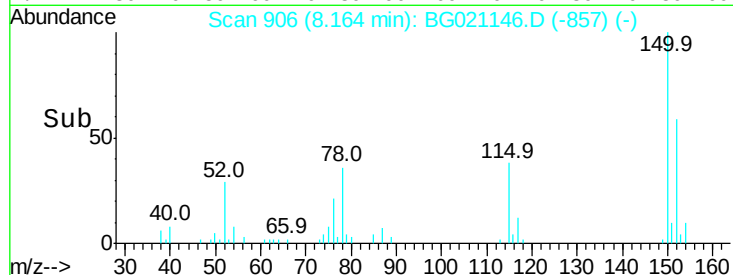
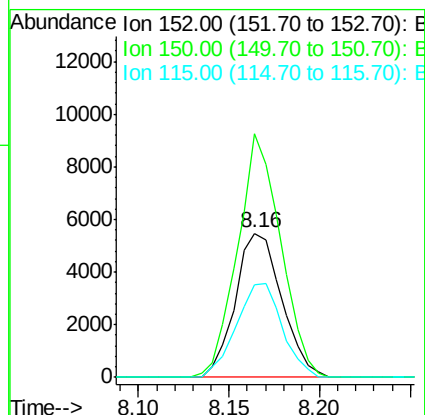
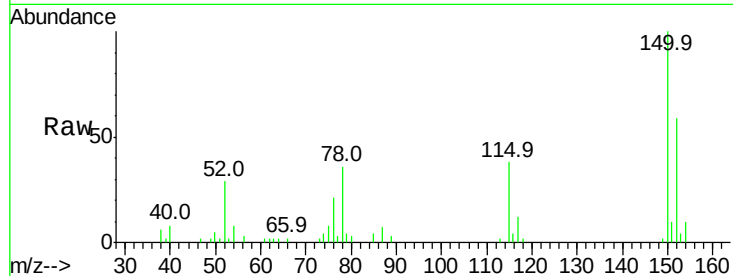
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.16 min Scan# 906
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tot Ion	Ratio	Lower	Upper
152	100		
150	168.9	123.4	185.2
115	64.5	43.3	64.9

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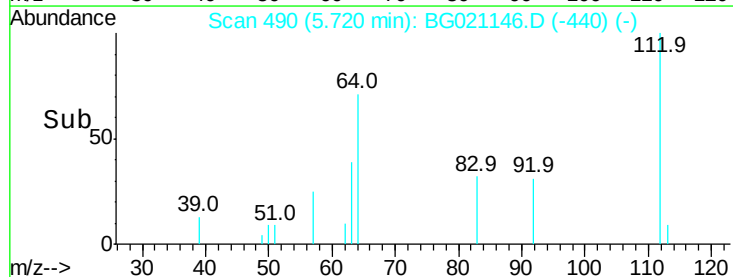
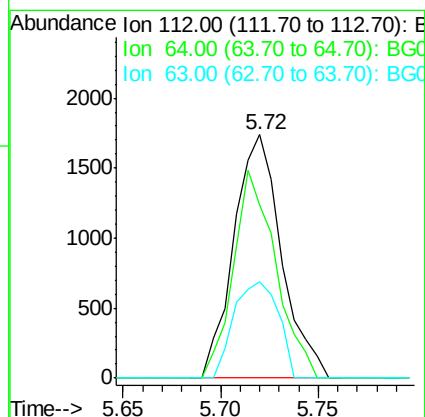
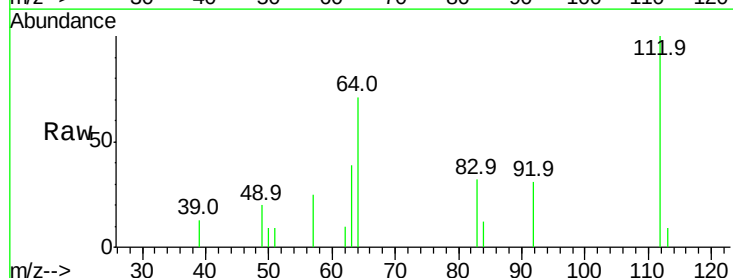
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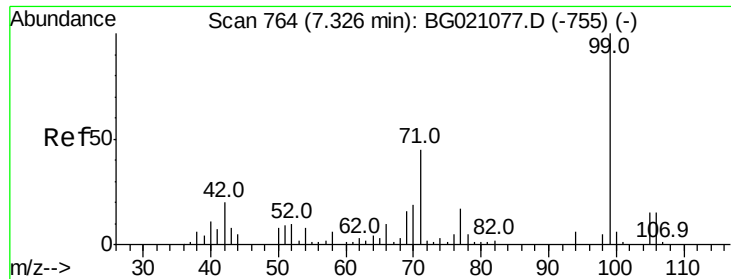


#5

2-Fluorophenol
Concen: 5.28 ng
RT: 5.72 min Scan# 490
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.0	42.6	63.8#
63	39.4	21.7	32.5#





#7

Phenol-d6

Concen: 5.44 ng

RT: 7.31 min Scan# 760

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

Tot Ion: 99 Resp: 4507

Ion Ratio Lower Upper

99 100

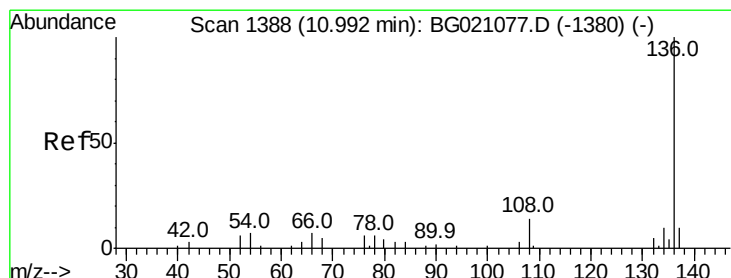
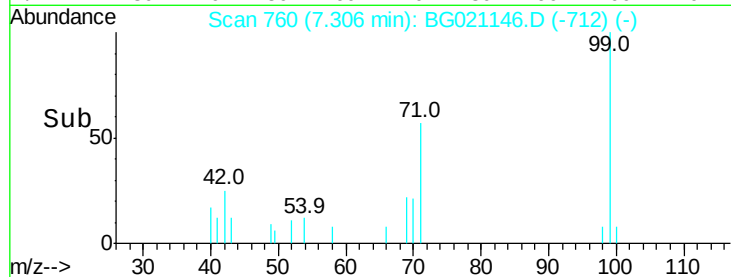
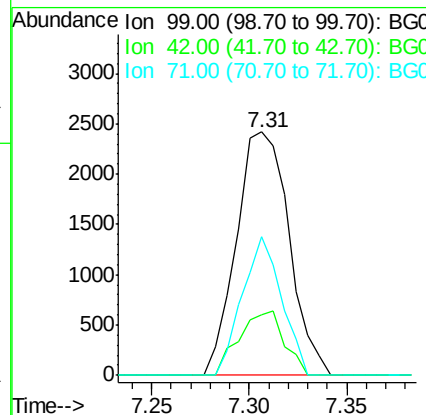
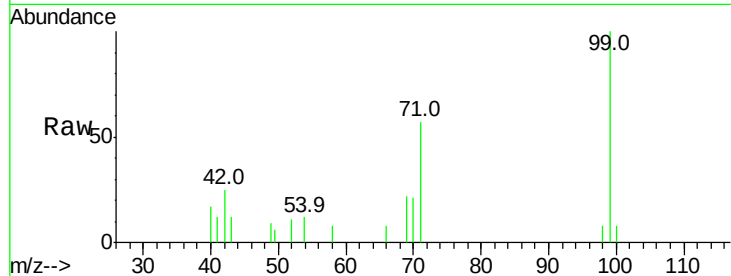
42 24.8 13.2 19.8#

71 56.9 25.2 37.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.98 min Scan# 1385

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Tgt Ion: 136 Resp: 47195

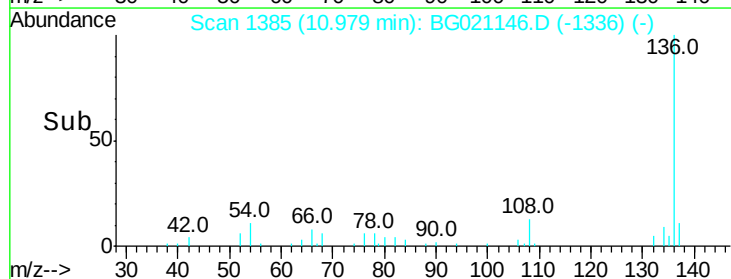
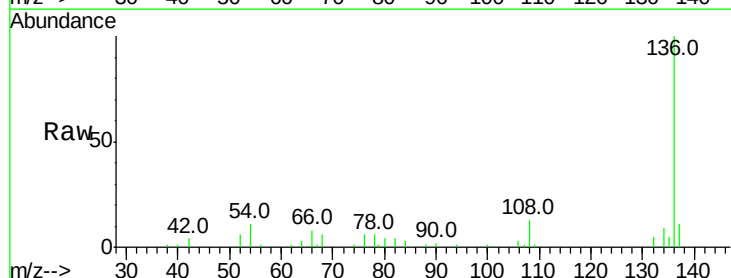
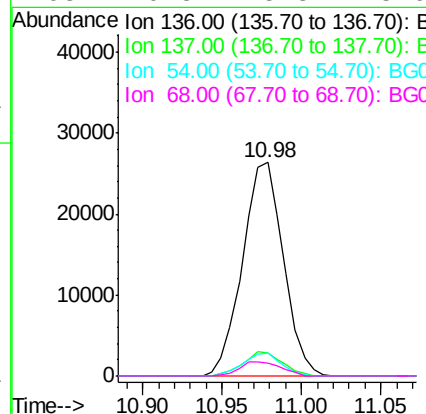
Ion Ratio Lower Upper

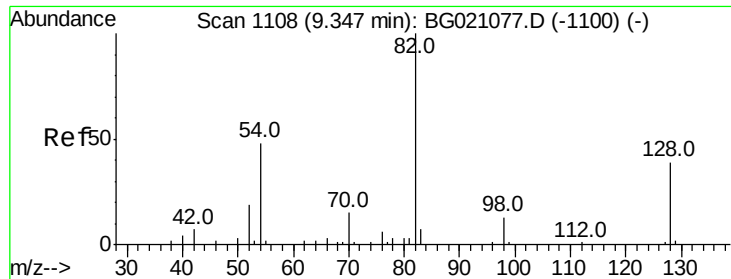
136 100

137 11.1 8.8 13.2

54 10.6 6.9 10.3#

68 6.3 5.8 8.6





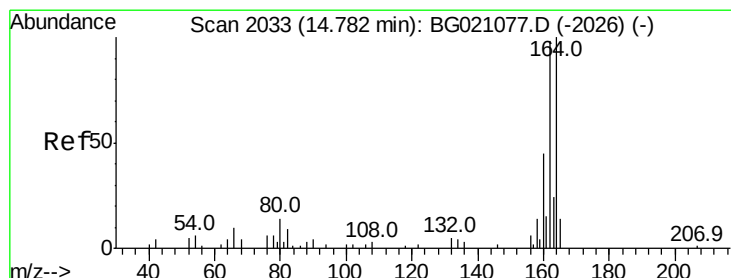
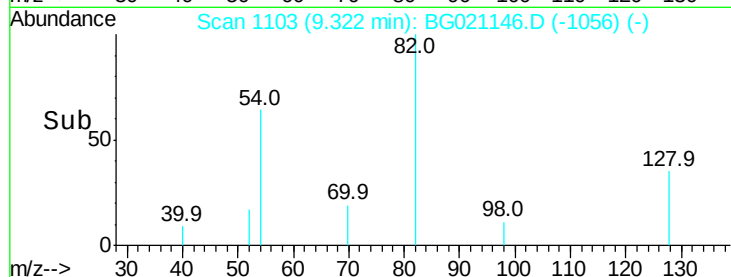
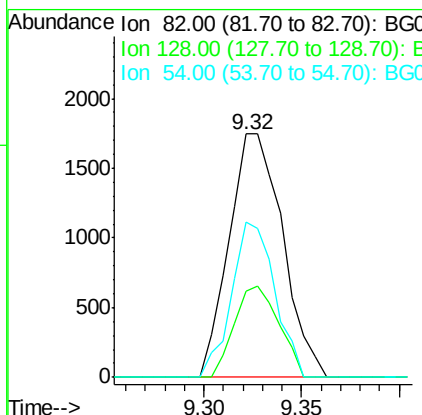
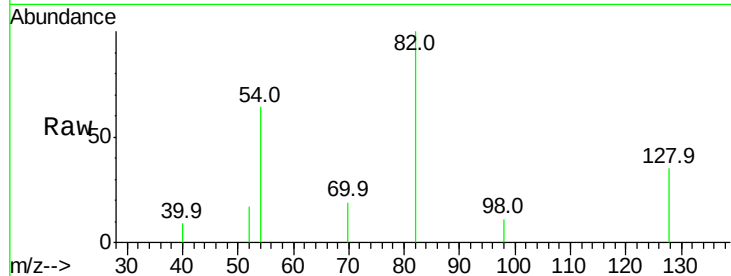
#23
Nitrobenzene-d5
Concen: 3.35 ng
RT: 9.32 min Scan# 1103
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.3	36.3	54.5#
54	63.9	37.6	56.4#

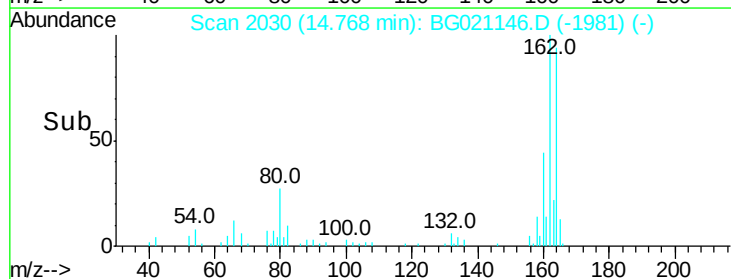
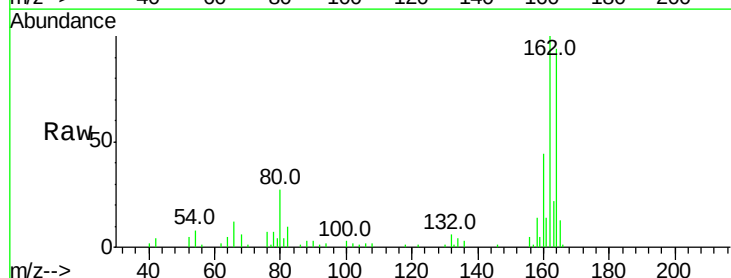
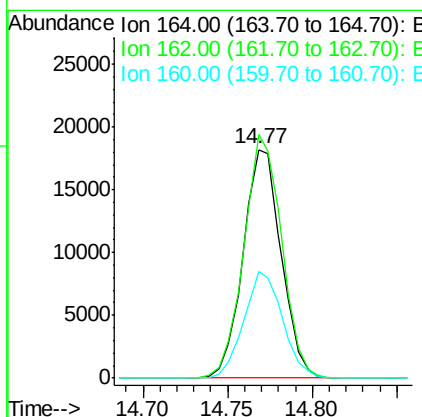
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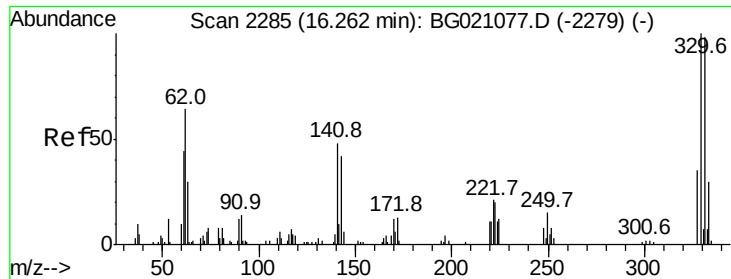
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.77 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.5	80.6	120.8
160	46.7	36.5	54.7





#41

2,4,6-Tribromophenol

Concen: 2.73 ng

RT: 16.25 min Scan# 2282

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

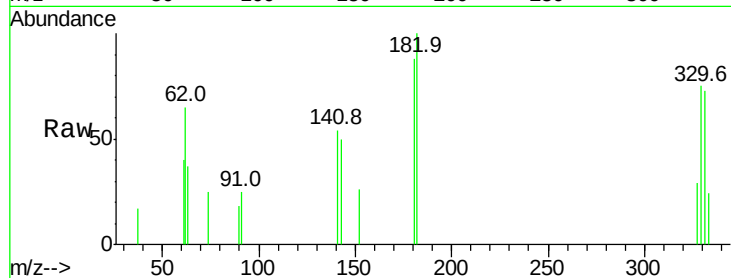
ClientSampleId :

POST-EX-10-20160211

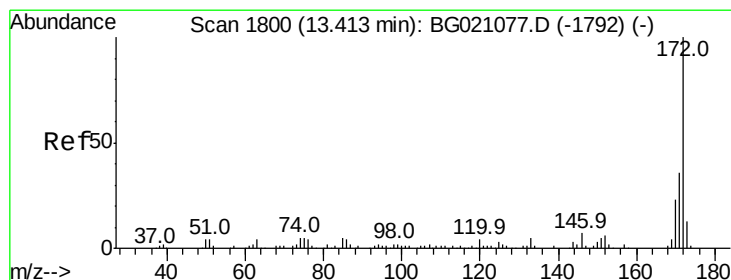
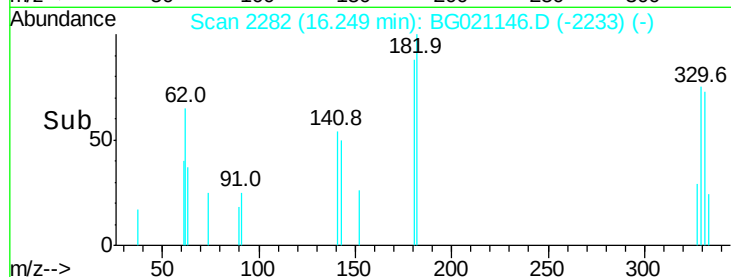
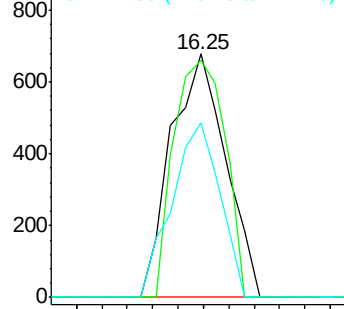
Tot Ion	Ratio	Resp	Lower	Upper
330	100	1017		
332	91.4		77.4	116.0
141	63.1		35.3	52.9#

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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: 2.91 ng

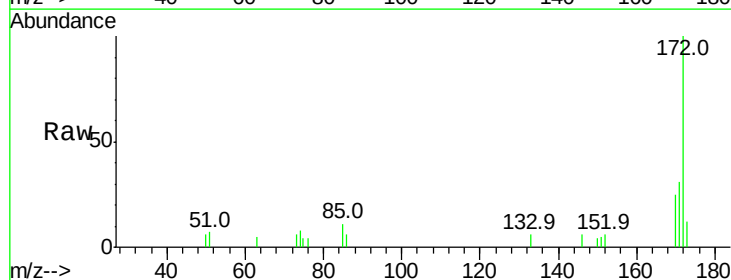
RT: 13.40 min Scan# 1797

Delta R.T. -0.01 min

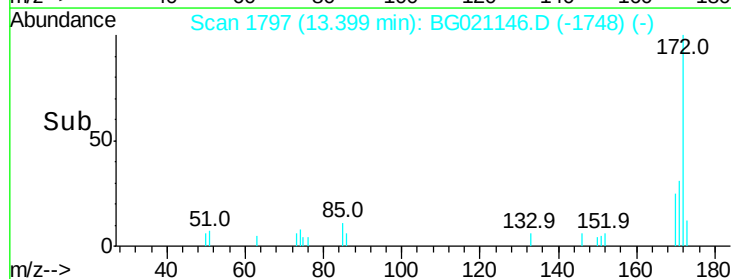
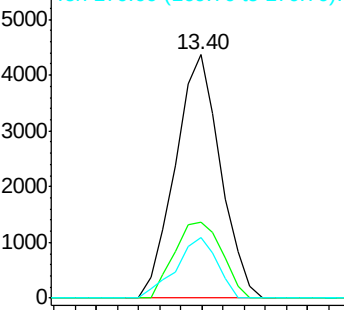
Lab File: BG021146.D

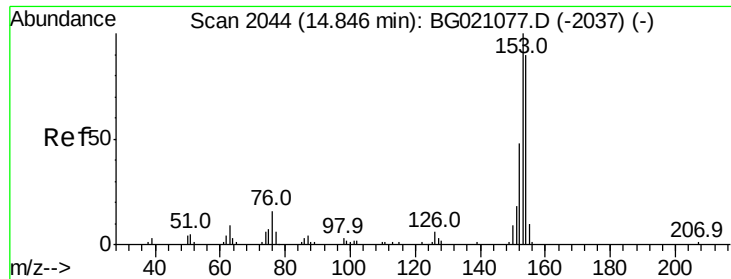
Acq: 28 Feb 2016 11:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	6471		
171	31.3		29.4	44.0
170	25.0		19.8	29.8



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





#51

Acenaphthene

Concen: 2.39 ng

RT: 14.83 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BG021146.D

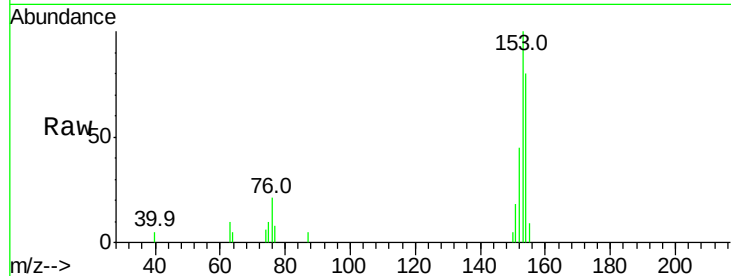
Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211



Tot Ion:154 Resp: 4695

Ion Ratio Lower Upper

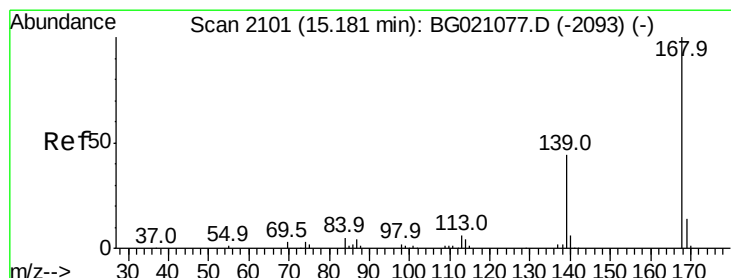
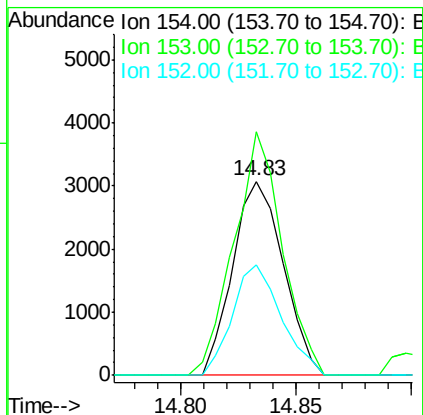
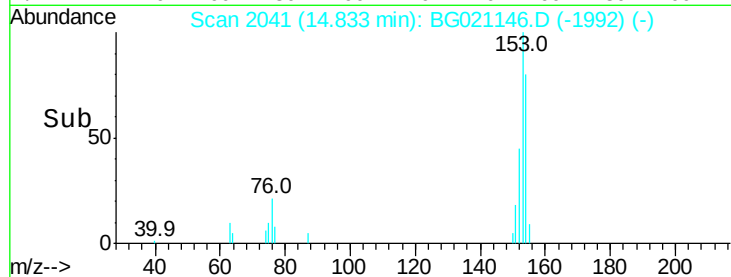
154 100

153 125.7 94.2 141.2

152 57.1 42.9 64.3

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#54

Dibenzofuran

Concen: 2.14 ng

RT: 15.16 min Scan# 2097

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

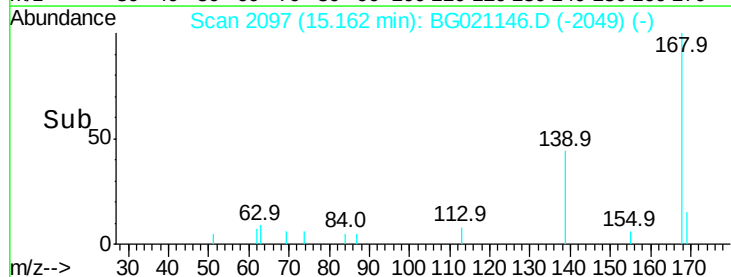
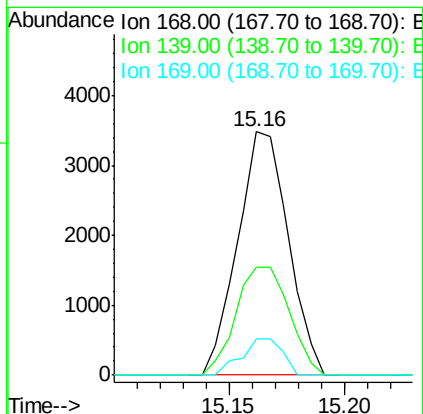
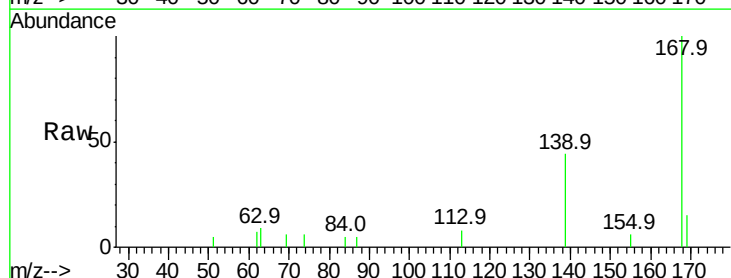
Tgt Ion:168 Resp: 5309

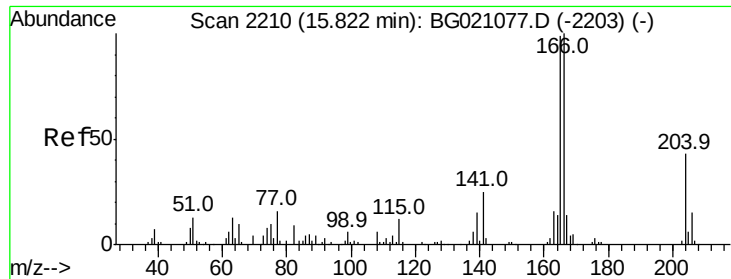
Ion Ratio Lower Upper

168 100

139 44.2 29.8 44.8

169 15.1 11.4 17.2





#57

Fluorene

Concen: 2.15 ng

RT: 15.81 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

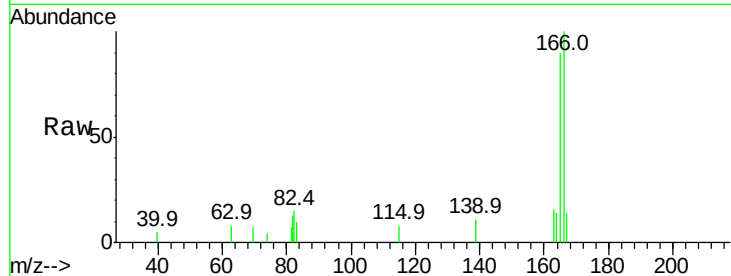
ClientSampleId :

POST-EX-10-20160211

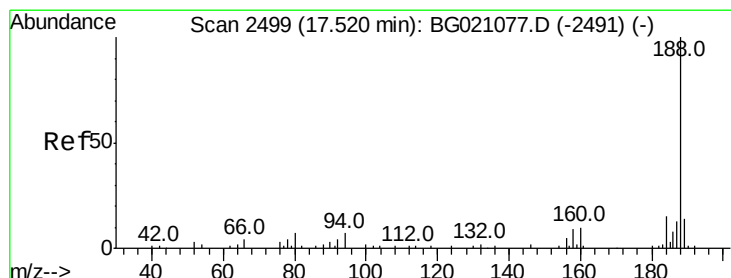
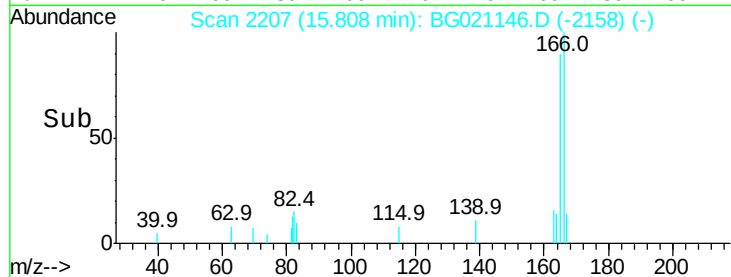
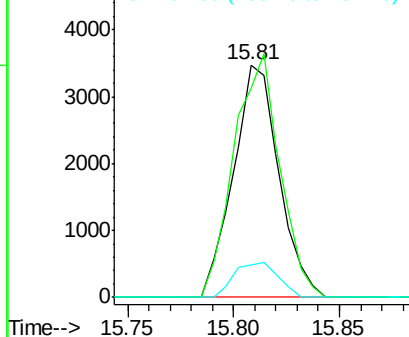
Tot Ion:	166	Resp:	5189
Ion Ratio	Lower	Upper	
166	100		
165	89.9	81.3	121.9
167	13.9	10.6	16.0

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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

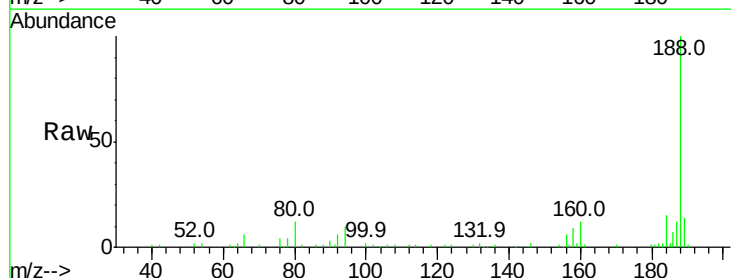
RT: 17.51 min Scan# 2496

Delta R.T. -0.01 min

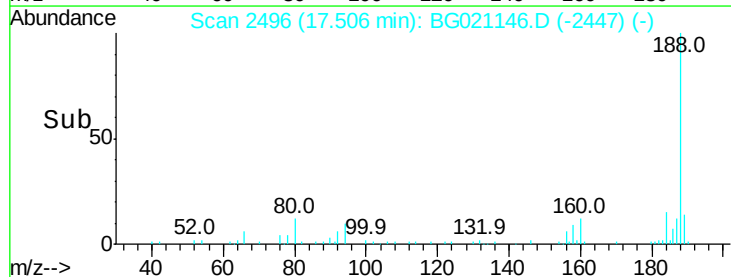
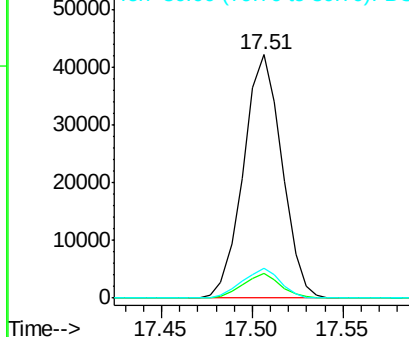
Lab File: BG021146.D

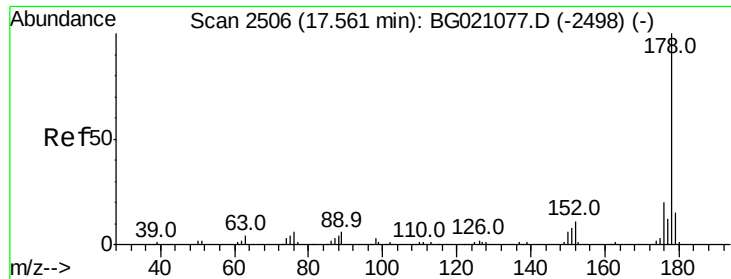
Acq: 28 Feb 2016 11:21

Tgt Ion:	188	Resp:	62133
Ion Ratio	Lower	Upper	
188	100		
94	10.2	8.2	12.4
80	12.2	9.2	13.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BG
Ion 80.00 (79.70 to 80.70): BG





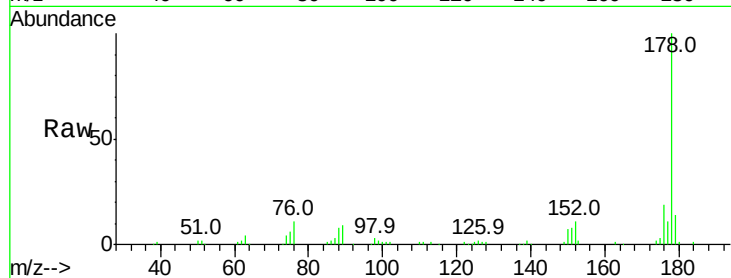
#70
 Phenanthrene
 Concen: 25.04 ng
 RT: 17.55 min Scan# 2503
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

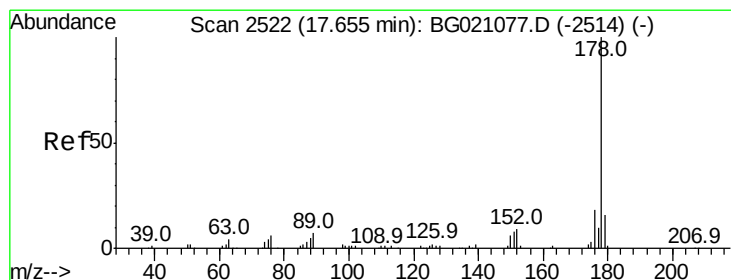
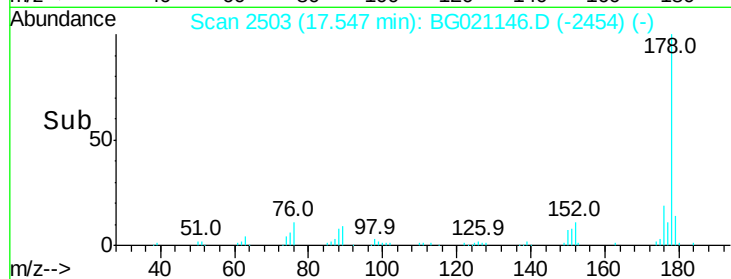
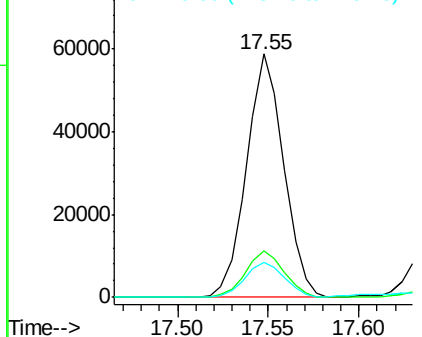
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.2	24.4
179	14.3	12.9	19.3

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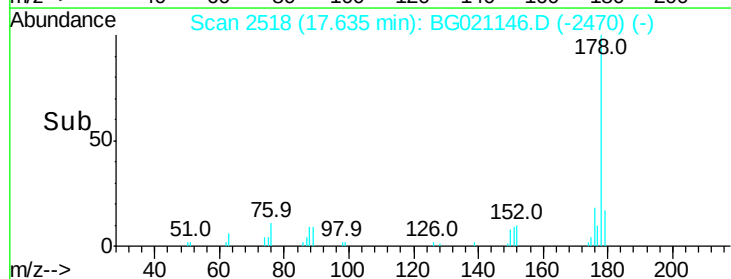
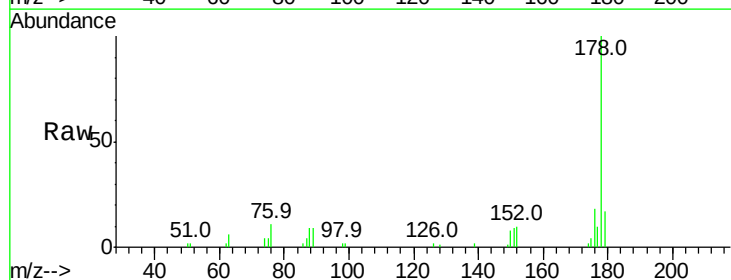
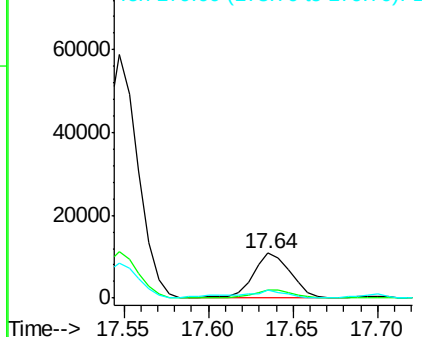
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

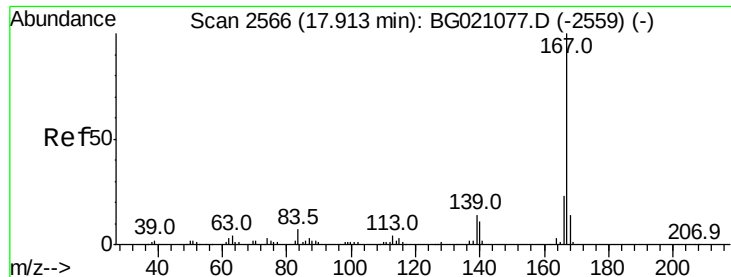


#71
 Anthracene
 Concen: 4.91 ng
 RT: 17.64 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.8	22.2
179	17.0	12.6	19.0

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: 2.60 ng

RT: 17.91 min Scan# 2564

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

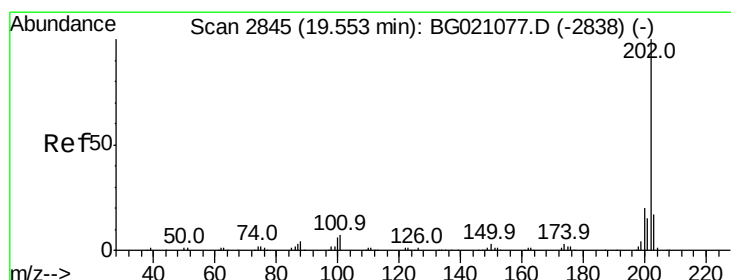
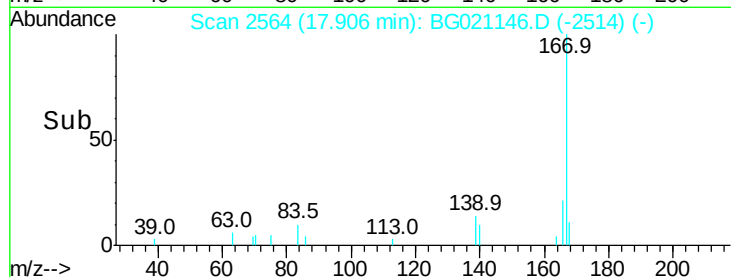
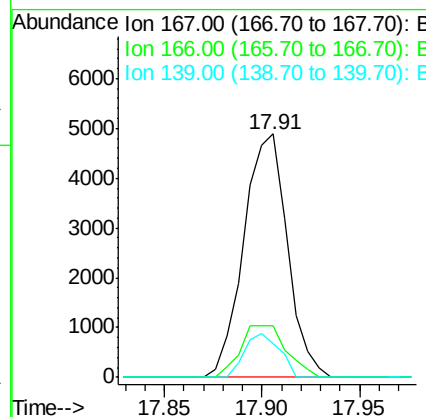
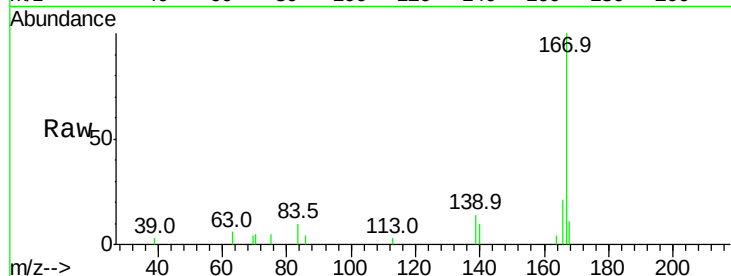
ClientSampleId :

POST-EX-10-20160211

Tot Ion:	167	Resp:	7562
Ion Ratio	Lower	Upper	
167	100		
166	21.0	17.5	26.3
139	13.7	10.3	15.5

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#74

Fluoranthene

Concen: 18.88 ng

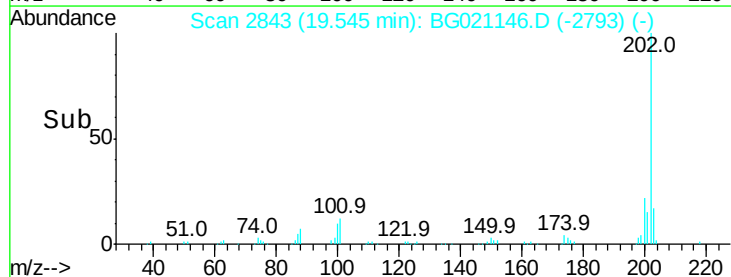
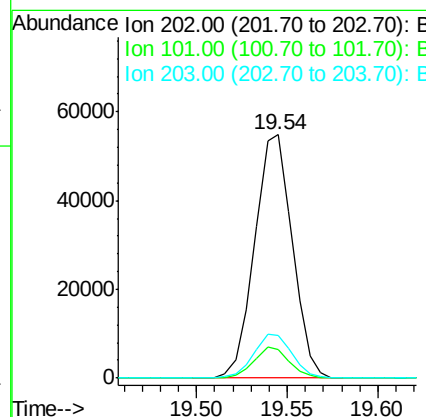
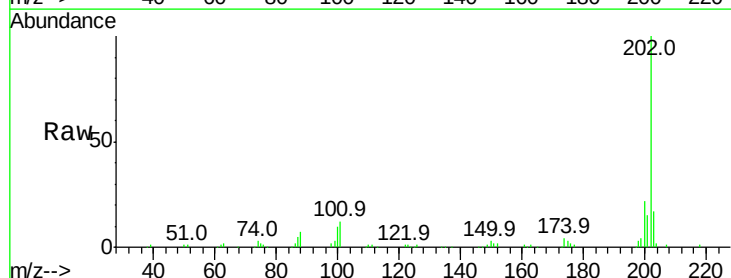
RT: 19.54 min Scan# 2843

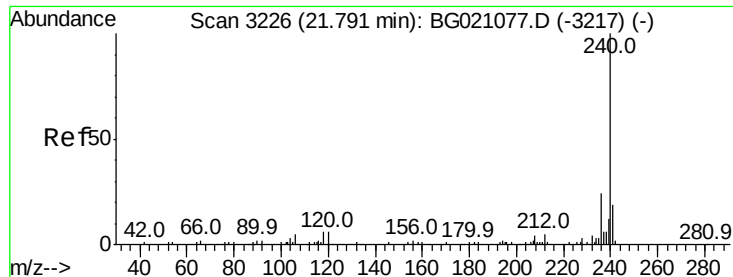
Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Tgt Ion:	202	Resp:	79185
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	32.5
203	17.4	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3222

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

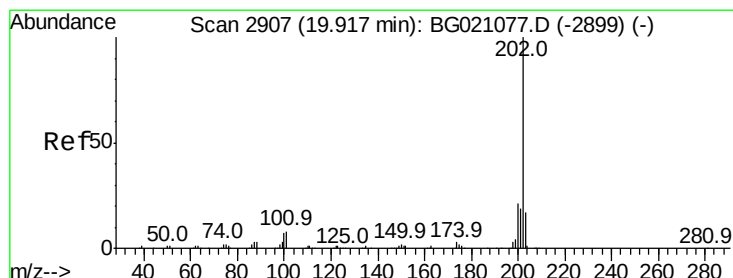
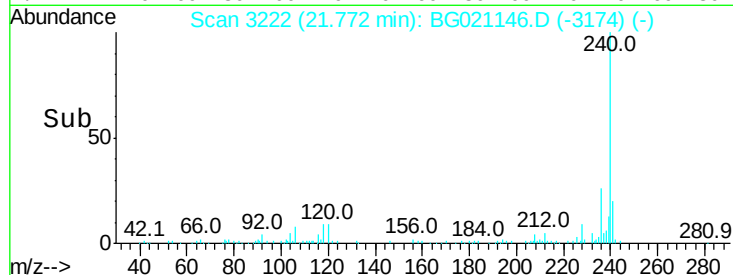
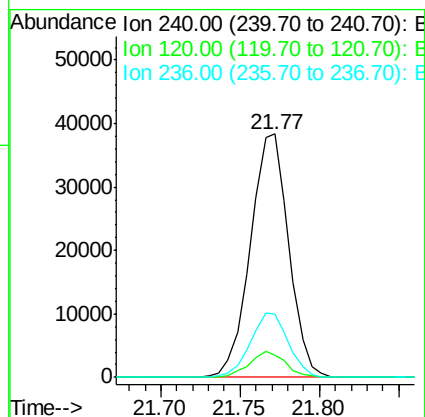
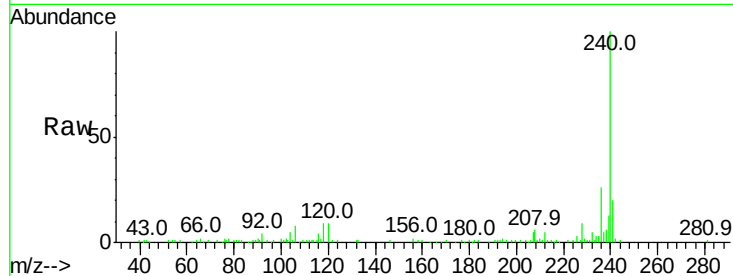
ClientSampleId :

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Tot Ion:	240	Resp:	64400
Ion Ratio	Lower	Upper	
240	100		
120	9.1	7.5	11.3
236	26.2	20.5	30.7

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#77

Pyrene

Concen: 19.58 ng

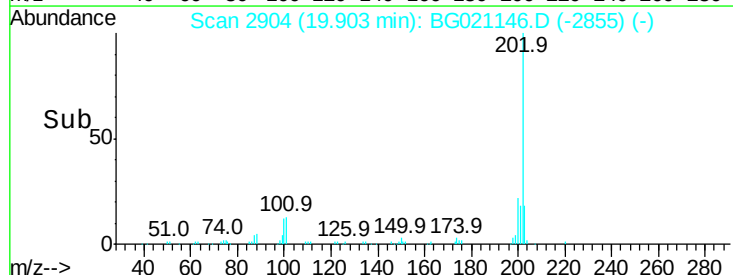
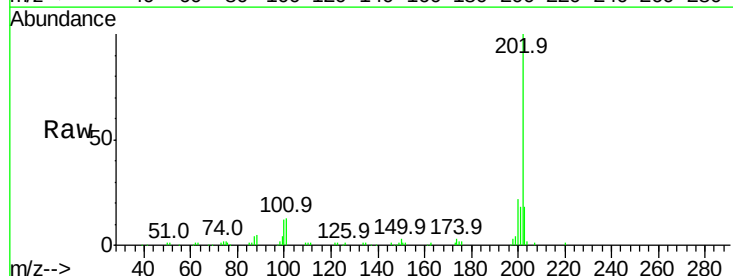
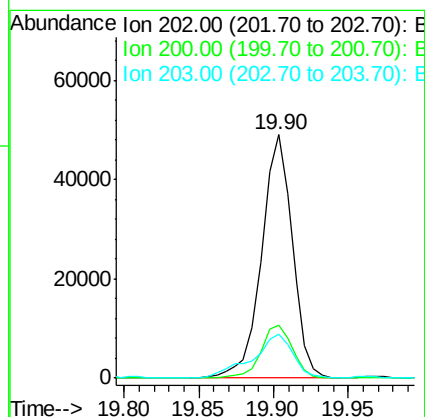
RT: 19.90 min Scan# 2904

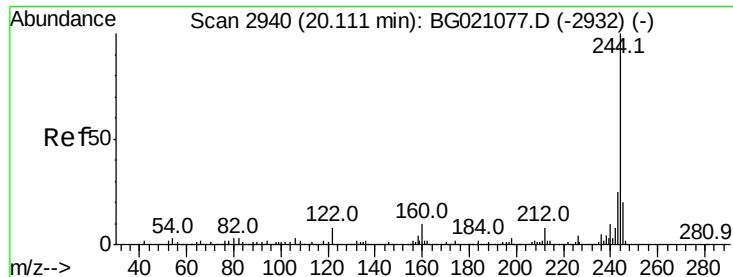
Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Tgt Ion:	202	Resp:	69806
Ion Ratio	Lower	Upper	
202	100		
200	21.5	16.6	25.0
203	18.1	13.8	20.8





#78

Terphenyl-d14

Concen: 2.82 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

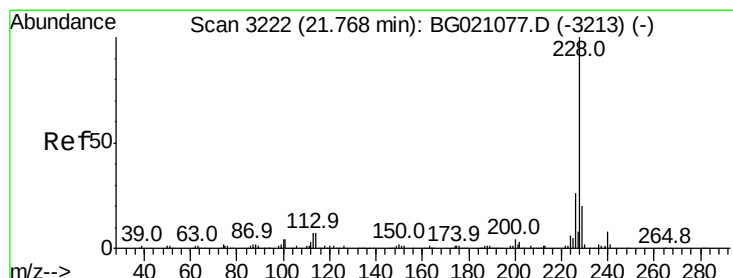
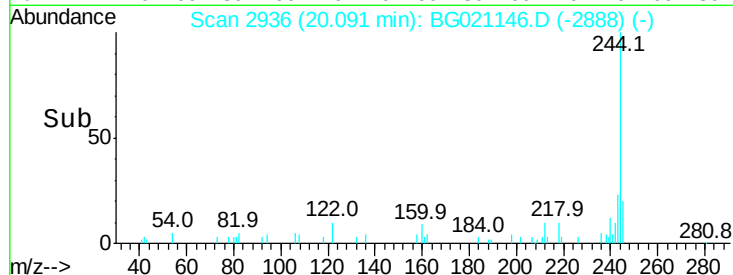
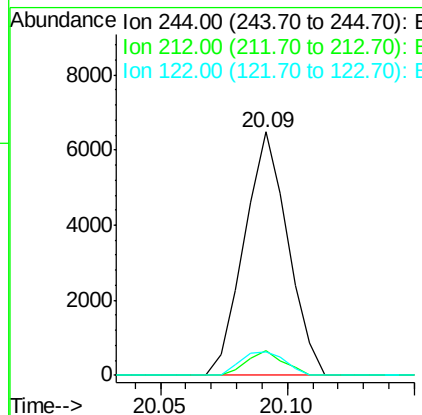
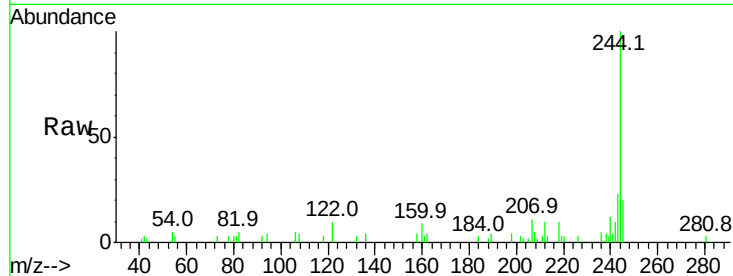
ClientSampleId :

POST-EX-10-20160211

Tot Ion:	244	Resp:	7774
Ion Ratio	Lower	Upper	
244	100		
212	10.1	5.8	8.6#
122	9.8	8.3	12.5

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#80

Benzo(a)anthracene

Concen: 8.60 ng

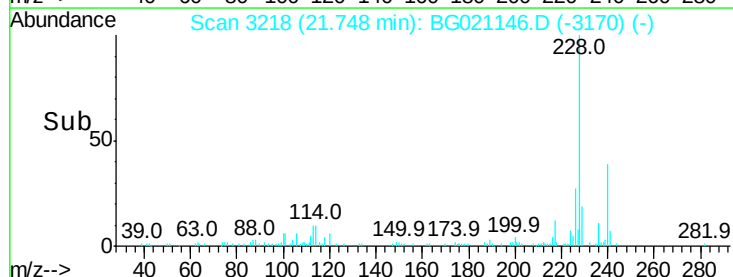
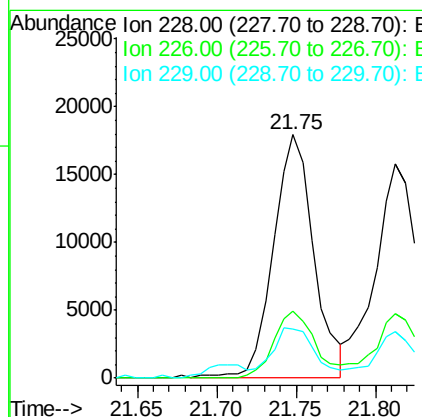
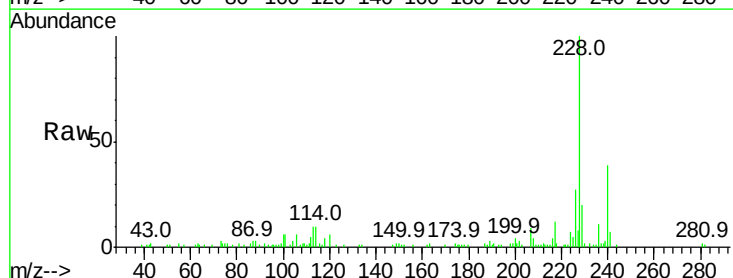
RT: 21.75 min Scan# 3218

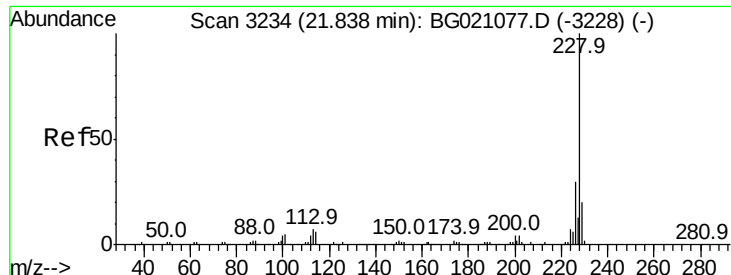
Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Tgt Ion:	228	Resp:	31883
Ion Ratio	Lower	Upper	
228	100		
226	27.4	22.7	34.1
229	19.9	15.5	23.3





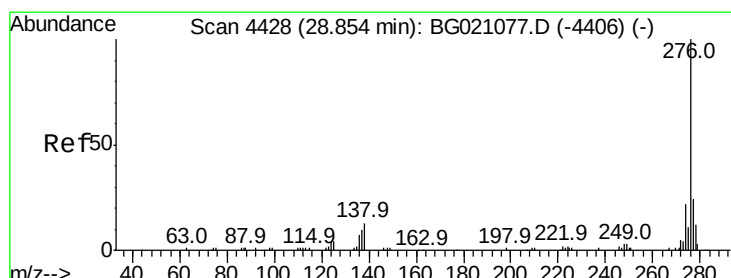
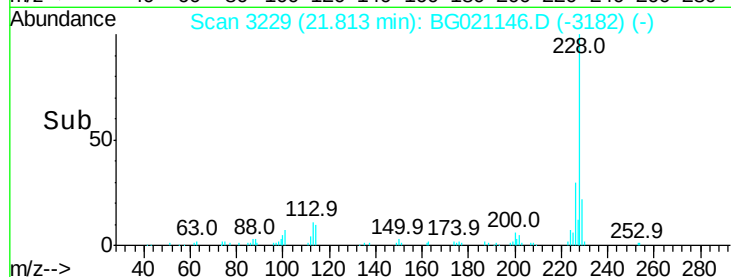
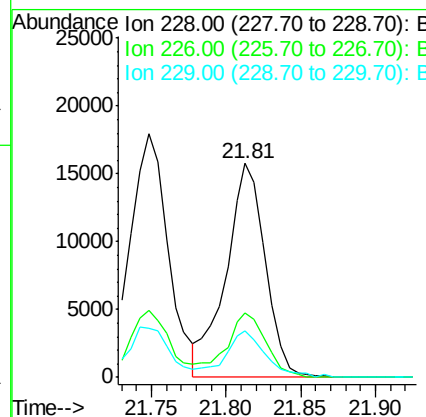
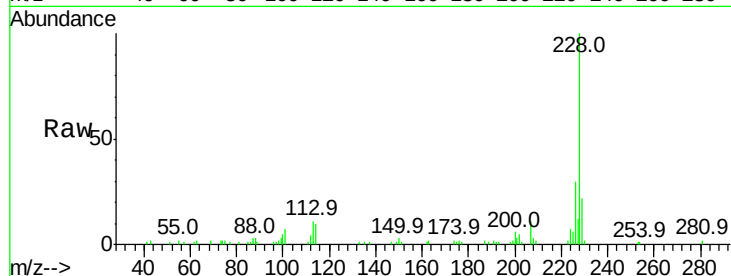
#82
Chrysene
Concen: 8.12 ng
RT: 21.81 min Scan# 3229
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tot Ion:	228	Resp:	28960
Ion Ratio	Lower	Upper	
228	100		
226	30.0	23.7	35.5
229	21.6	16.7	25.1

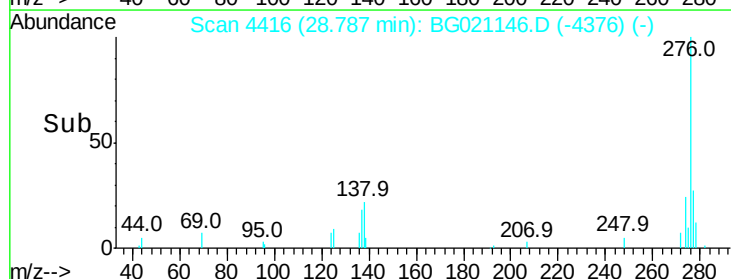
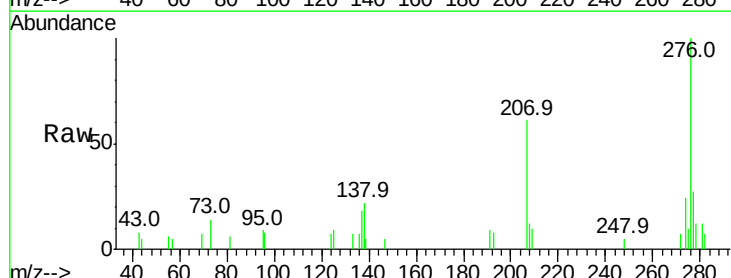
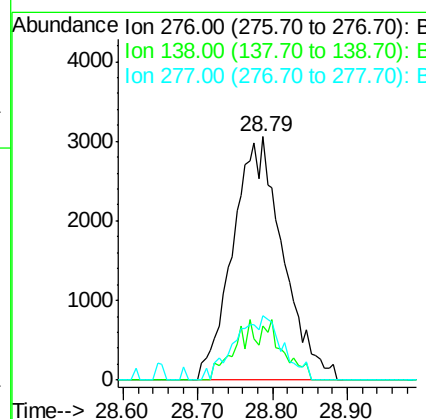
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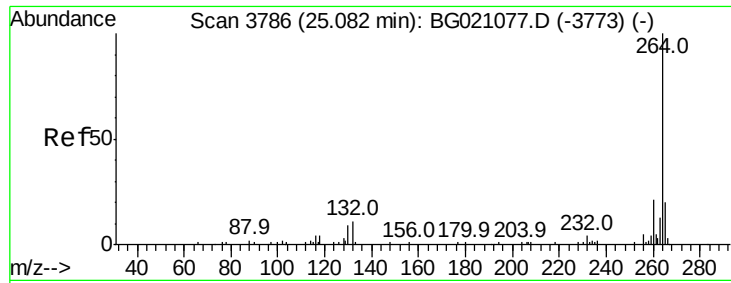
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.29 ng
RT: 28.79 min Scan# 4416
Delta R.T. -0.07 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:	276	Resp:	14161
Ion Ratio	Lower	Upper	
276	100		
138	10.5	0.0	0.0#
277	25.3	0.0	0.0#





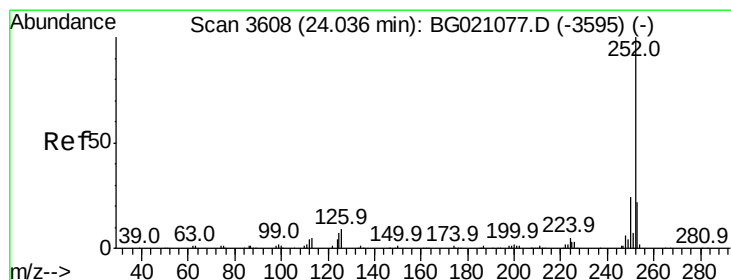
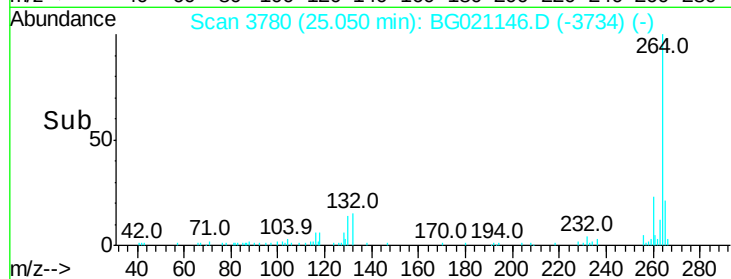
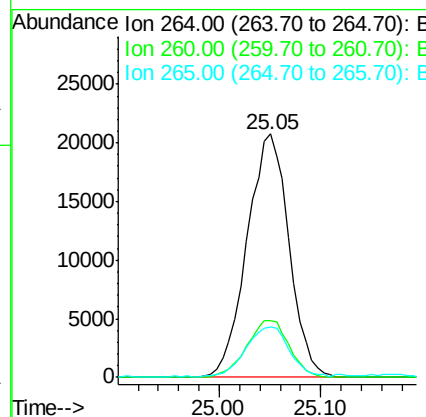
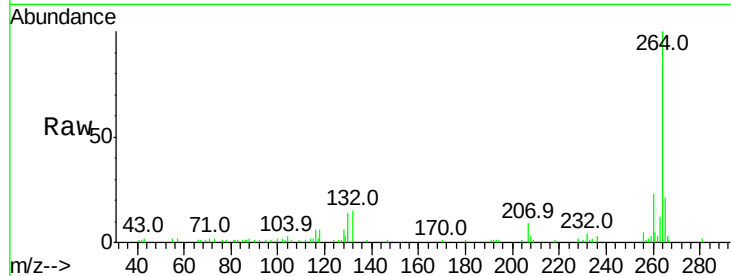
#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.05 min Scan# 3780
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tot Ion:	264	Resp:	59780
Ion Ratio	Lower	Upper	
264	100		
260	23.3	18.5	27.7
265	20.8	18.6	28.0

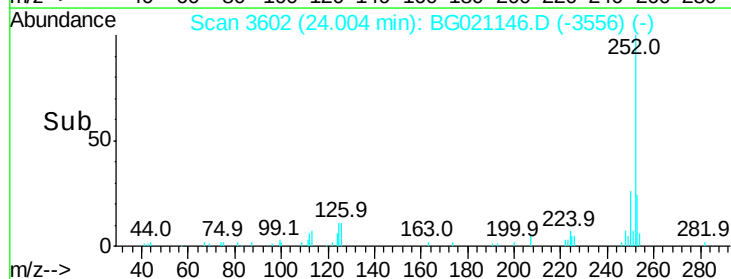
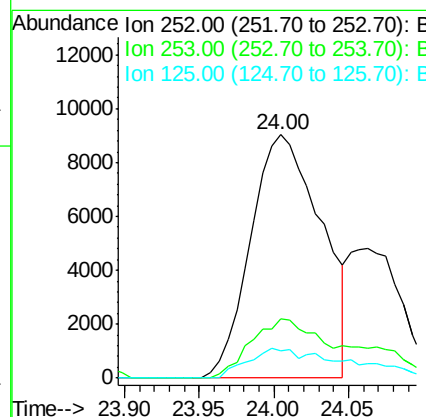
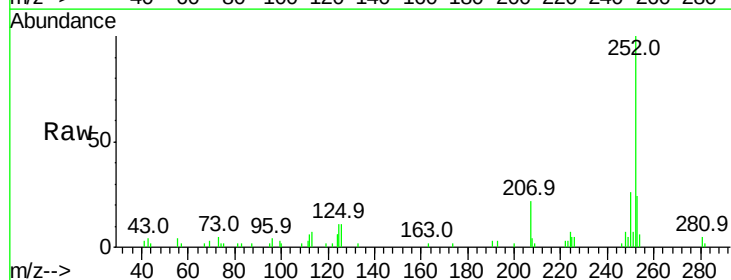
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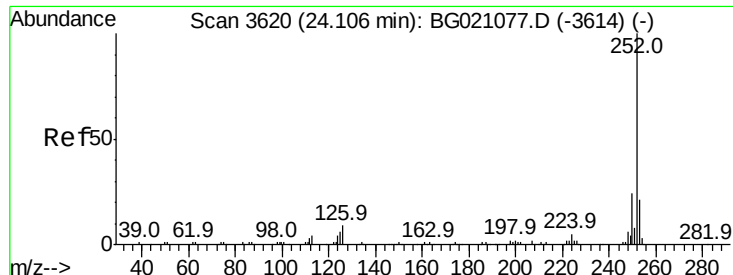
Sohil
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#87
Benzo(b)fluoranthene
Concen: 7.95 ng
RT: 24.00 min Scan# 3602
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:	252	Resp:	29701
Ion Ratio	Lower	Upper	
252	100		
253	24.3	16.8	25.2
125	11.0	8.2	12.2





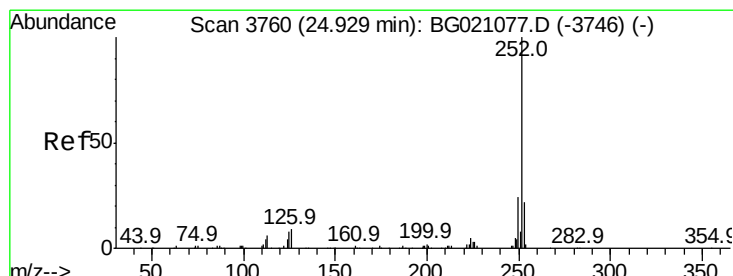
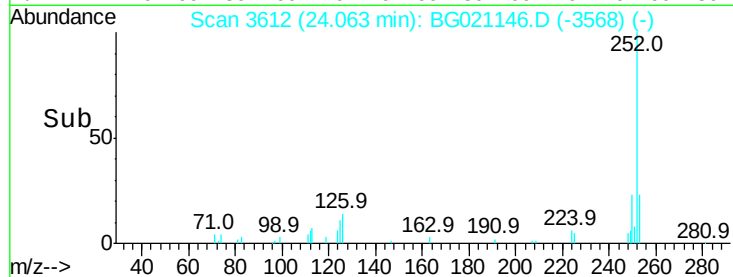
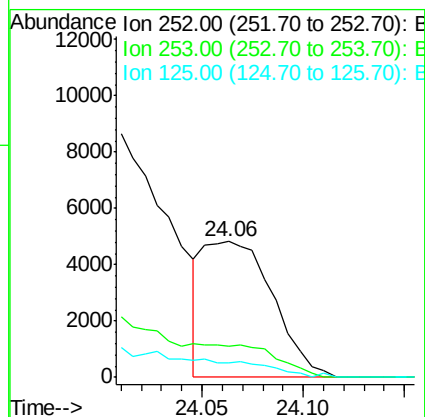
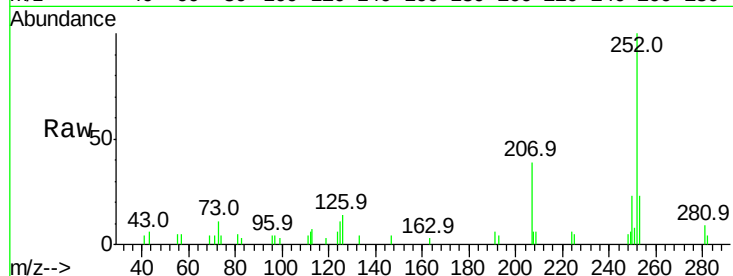
#88
Benzo(k)fluoranthene
Concen: 3.13 ng m
RT: 24.06 min Scan# 3612
Delta R.T. -0.04 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tot Ion:	252	Resp:	11542
Ion Ratio	Lower	Upper	
252	100		
253	22.5	16.4	24.6
125	11.1	8.2	12.2

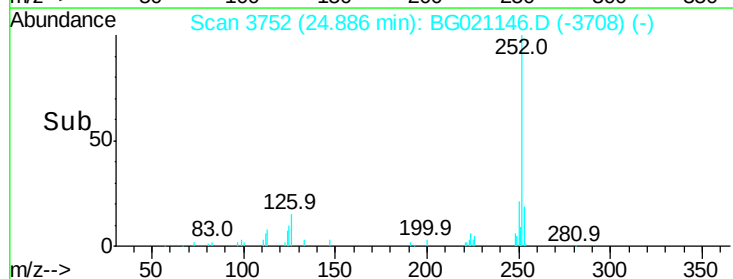
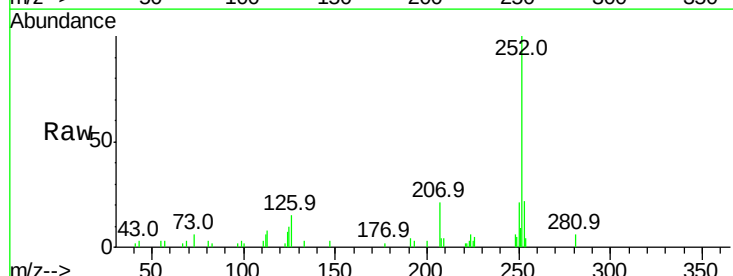
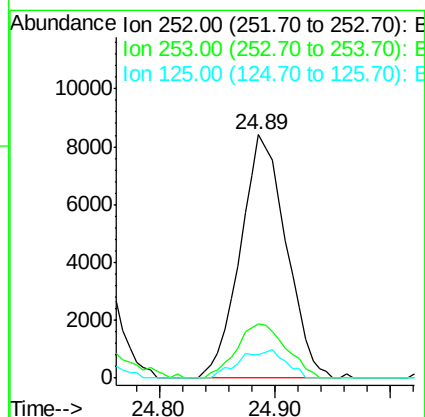
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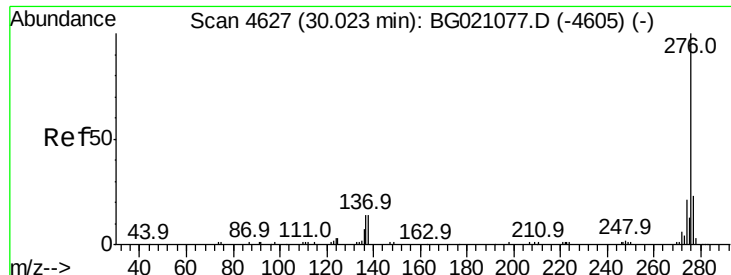
Sohil
2/29/2016 12:39:33 PM



#89
Benzo(a)pyrene
Concen: 6.47 ng
RT: 24.89 min Scan# 3752
Delta R.T. -0.04 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:	252	Resp:	23224
Ion Ratio	Lower	Upper	
252	100		
253	22.1	15.8	23.8
125	9.6	8.4	12.6





#91
 Benzo(a,h,i)perylene
 Concen: 3.76 ng
 RT: 29.95 min Scan# 4614
 Delta R.T. -0.07 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	16.6	25.0#
138	20.4	14.6	21.8

Manual Integrations
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