

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
 Data File : BG021169.D
 Acq On : 1 Mar 2016 00:10
 Operator : UM/SJ
 Sample : H1520-07DL 30X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)DL

Manual Integrations
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Sohil
 3/1/2016 6:50:25 PM

Quant Time: Mar 01 10:10:55 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	8483	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	44749	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	31596	20.00	ng	0.00
63) Phenanthrene-d10	17.49	188	74896	20.00	ng	0.00
75) Chrysene-d12	21.75	240	76255	20.00	ng	-0.01
86) Perylene-d12	25.02	264	69964	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	2112	3.96	ng	0.00
7) Phenol-d6	7.29	99	4534	5.17	ng	0.00
23) Nitrobenzene-d5	9.31	82	3519	3.33	ng	-0.01
41) 2,4,6-Tribromophenol	16.23	330	360	1.10	ng	-0.01
44) 2-Fluorobiphenyl	13.39	172	6164	2.77	ng	0.00
78) Terphenyl-d14	20.09	244	8939	2.84	ng	0.00
Target Compounds						Qvalue
51) Acenaphthene	14.82	154	9298	4.44	ng	95
54) Dibenzofuran	15.15	168	9775	3.49	ng	# 90
57) Fluorene	15.80	166	12009	4.50	ng	96
70) Phenanthrene	17.54	178	138424	34.25	ng	98
71) Anthracene	17.63	178	34721	8.40	ng	99
72) Carbazole	17.89	167	15984	4.36	ng	# 96
74) Fluoranthene	19.53	202	134019	28.22	ng	99
77) Pyrene	19.89	202	102233	22.47	ng	99
80) Benzo(a)anthracene	21.74	228	55221	12.23	ng	98
82) Chrysene	21.80	228	43541	10.18	ng	99
85) Indeno(1,2,3-cd)pyrene	28.74	276	22447	4.58	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	52874	12.02	ng	96
88) Benzo(k)fluoranthene	24.05	252	19140m	4.34	ng	
89) Benzo(a)pyrene	24.87	252	38583	9.07	ng	94
91) Benzo(a,h,i)perylene	29.91	276	19105	4.70	ng	# 86

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

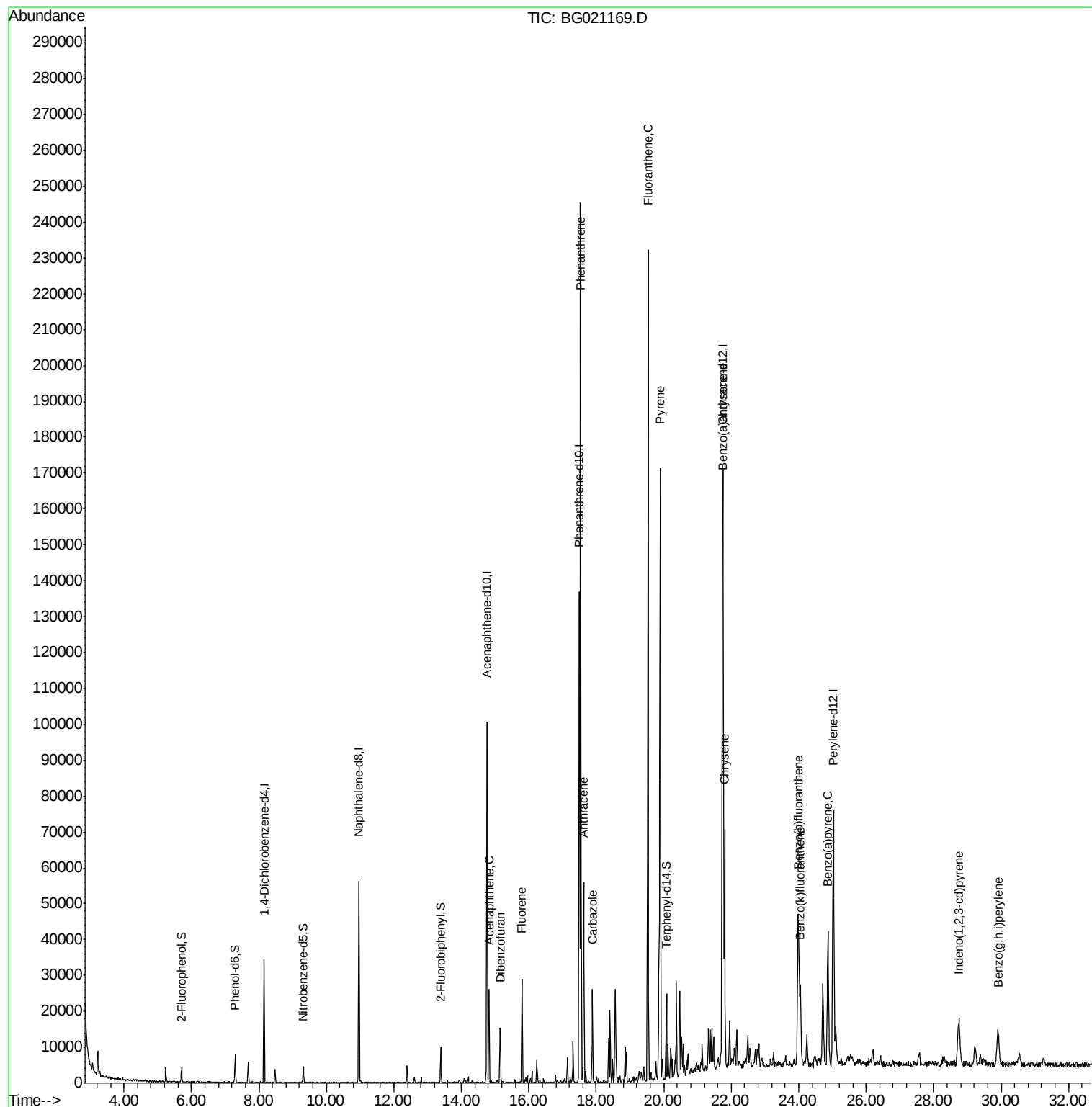
Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
Data File : BG021169.D
Acq On : 1 Mar 2016 00:10
Operator : UM/SJ
Sample : H1520-07DL 30X
Misc :
ALS Vial : 18 Sample Multiplier: 1

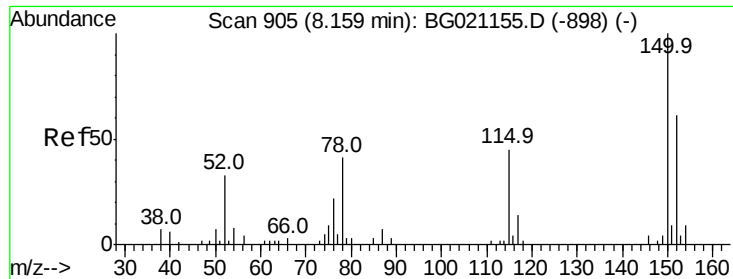
Instrument :
BNA_G
ClientSampleID :
40054+15(0-2)DL

Manual Integrations
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Quant Time: Mar 01 10:10:55 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
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#1

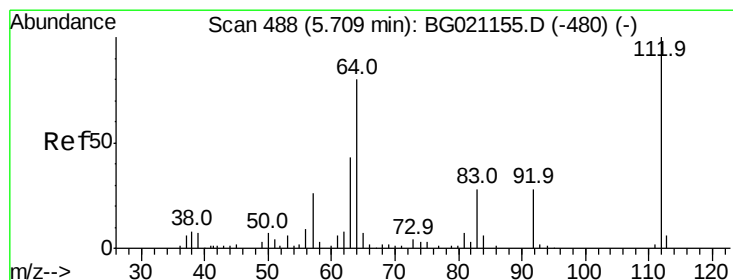
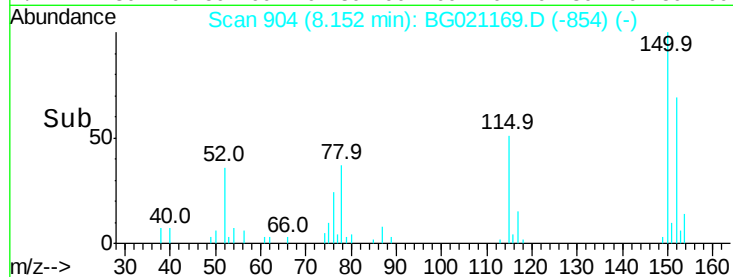
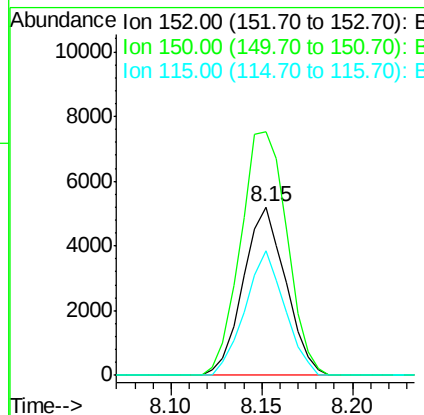
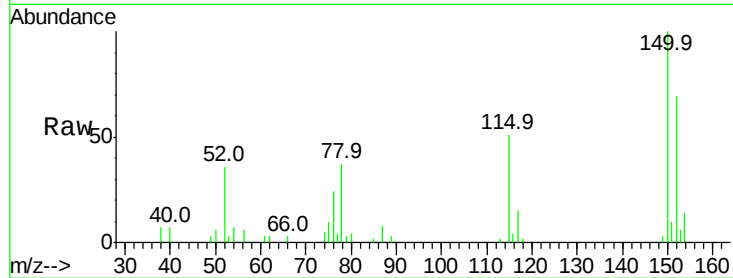
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.15 min Scan# 904
Delta R.T. -0.01 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	144.6	123.4	185.2
115	73.7	43.3	64.9#

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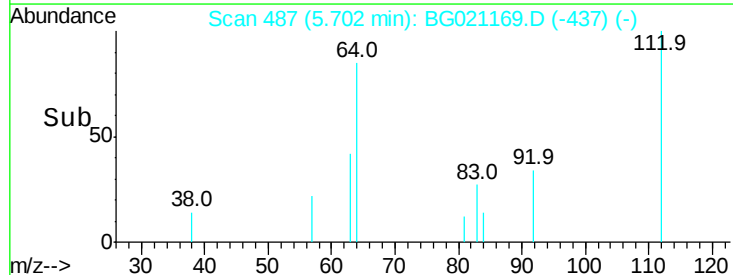
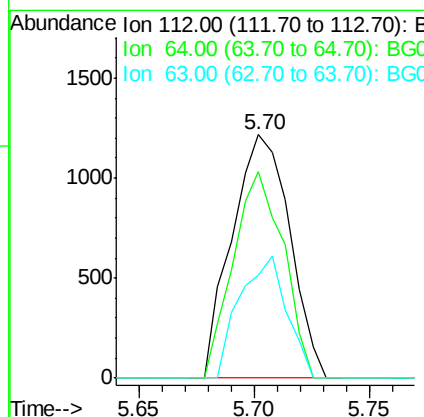
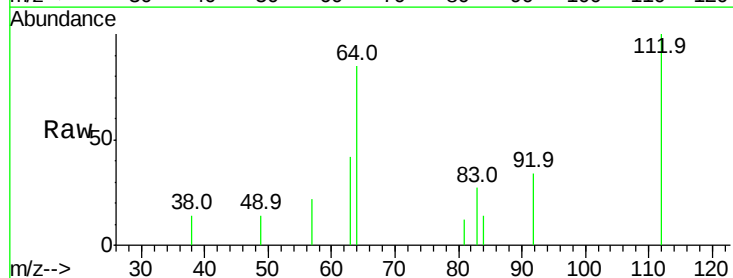
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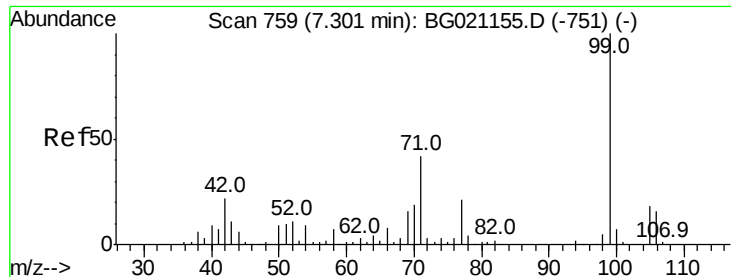


#5

2-Fluorophenol
Concen: 3.96 ng
RT: 5.70 min Scan# 487
Delta R.T. -0.01 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	84.8	42.6	63.8#
63	42.1	21.7	32.5#





#7

Phenol-d6

Concen: 5.17 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

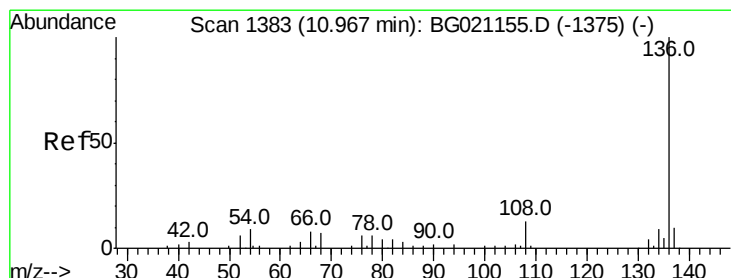
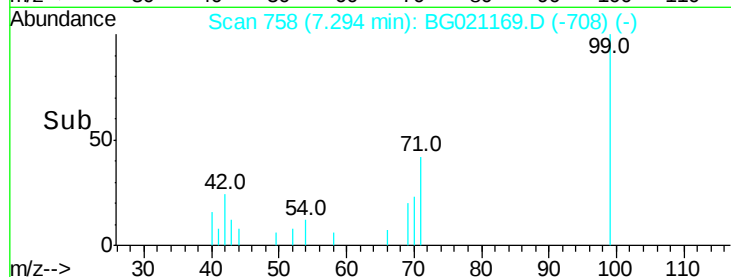
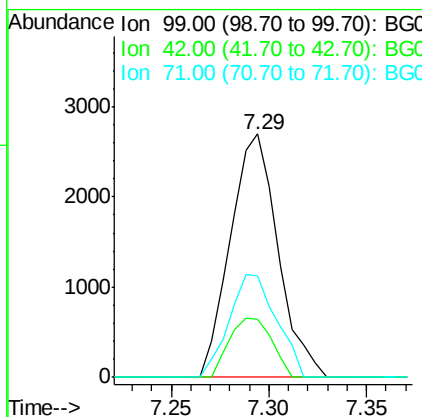
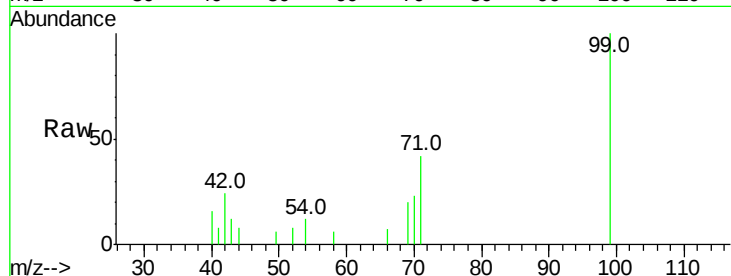
ClientSampleId :

40054+15(0-2)DL

Tot Ion:	99	Resp:	4534
Ion Ratio	Lower	Upper	
99	100		
42	23.6	13.2	19.8#
71	41.6	25.2	37.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

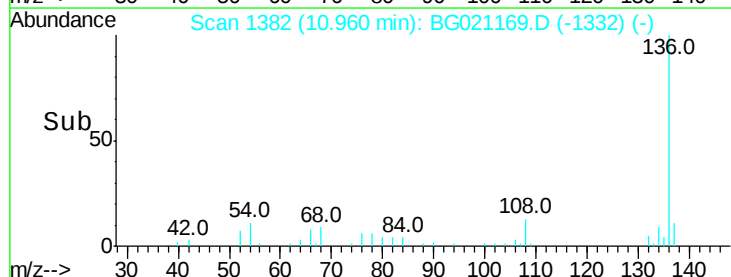
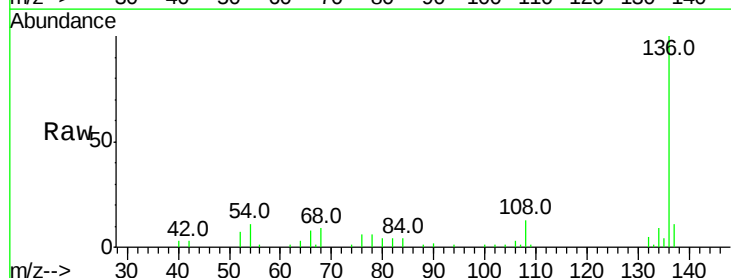
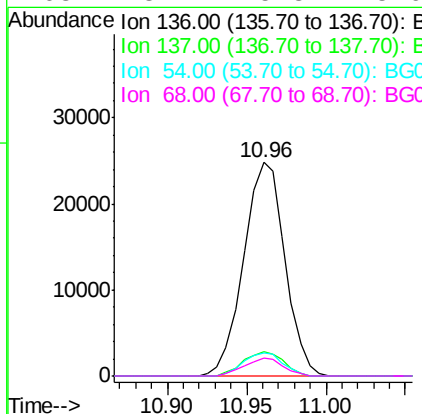
RT: 10.96 min Scan# 1382

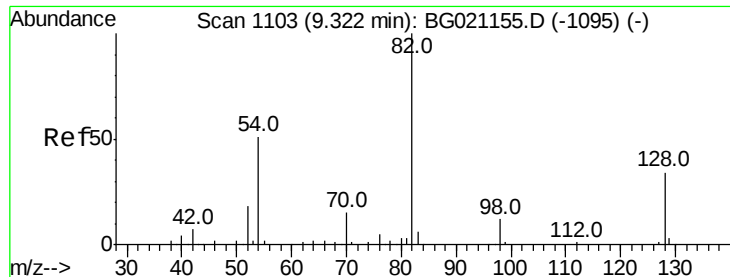
Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Tgt Ion:	136	Resp:	44749
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.8	13.2
54	11.0	6.9	10.3#
68	8.7	5.8	8.6#





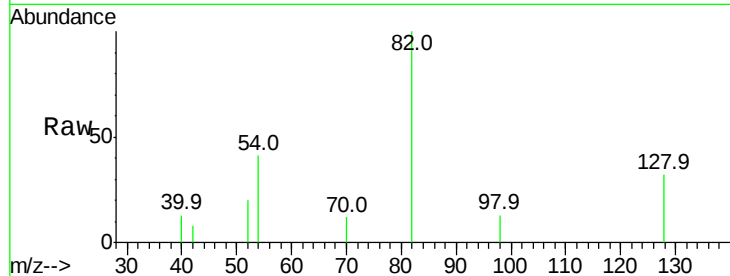
#23
Nitrobenzene-d5
Concen: 3.33 ng
RT: 9.31 min Scan# 1101
Delta R.T. -0.01 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Instrument :
BNA_G
ClientSampleID :
40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	32.3	36.3	54.5#
54	41.4	37.6	56.4

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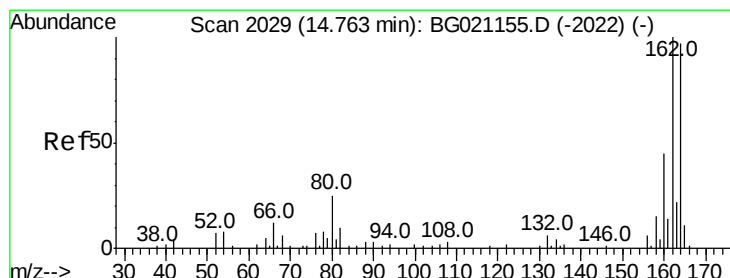
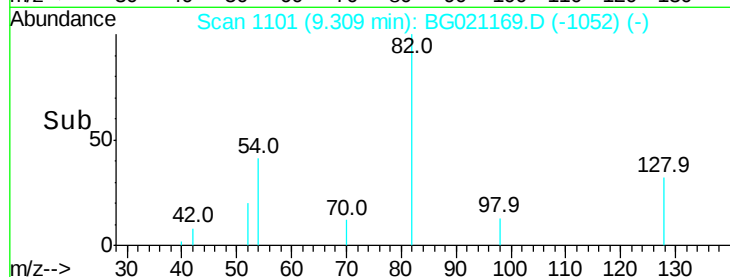
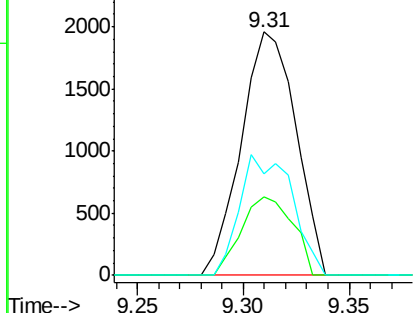


Abundance

Ion 82.00 (81.70 to 82.70): BGC

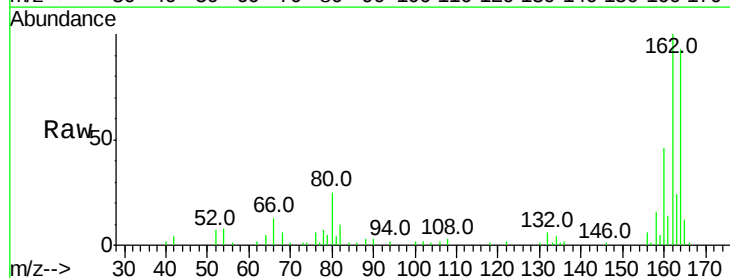
Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.76 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.1	80.6	120.8
160	49.0	36.5	54.7

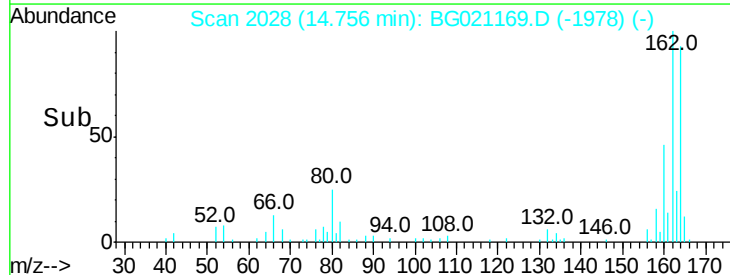
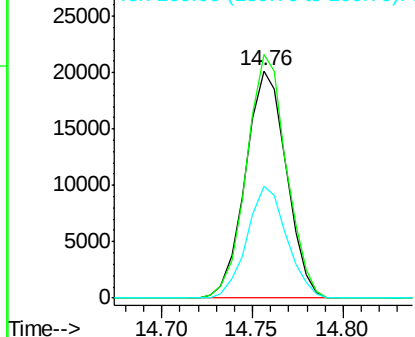


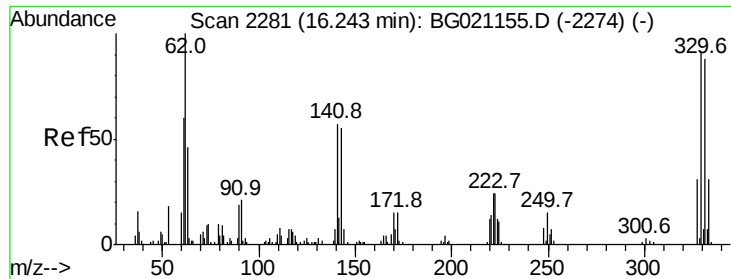
Abundance

Ion 164.00 (163.70 to 164.70): BGC

Ion 162.00 (161.70 to 162.70): BGC

Ion 160.00 (159.70 to 160.70): BGC





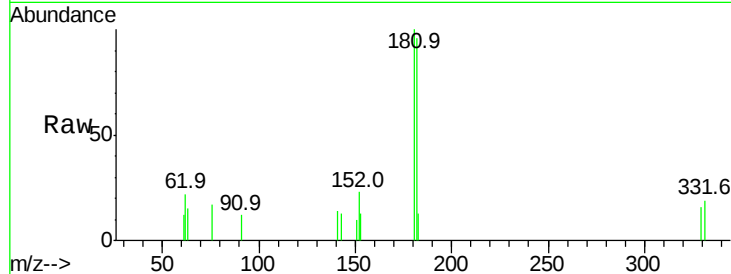
#41
 2,4,6-Tribromophenol
 Concen: 1.10 ng
 RT: 16.23 min Scan# 2279
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.4	116.0
141	51.7	35.3	52.9

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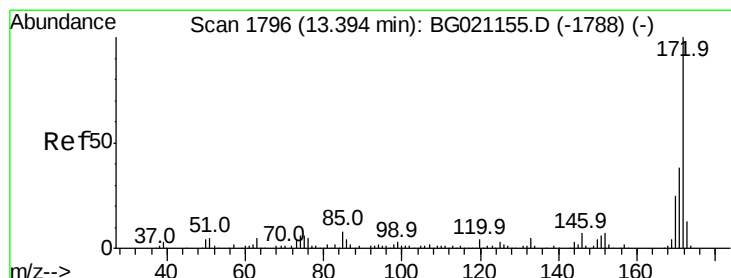
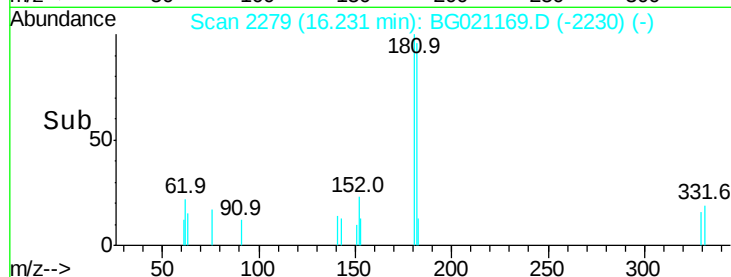
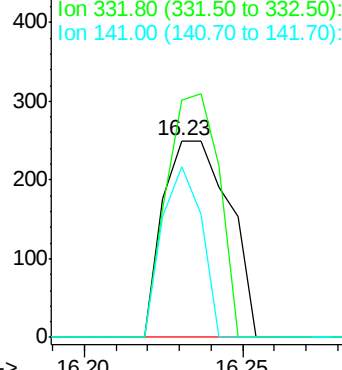


Abundance

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: 2.77 ng
 RT: 13.39 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

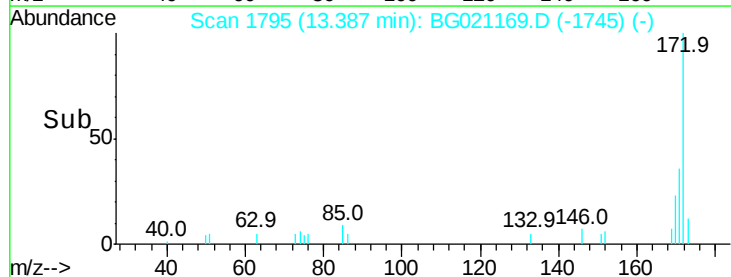
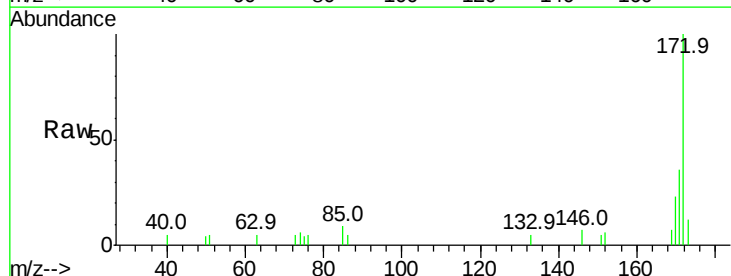
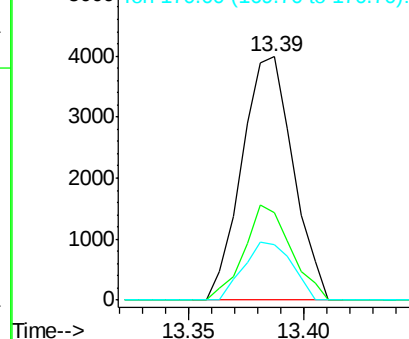
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.4	44.0
170	22.8	19.8	29.8

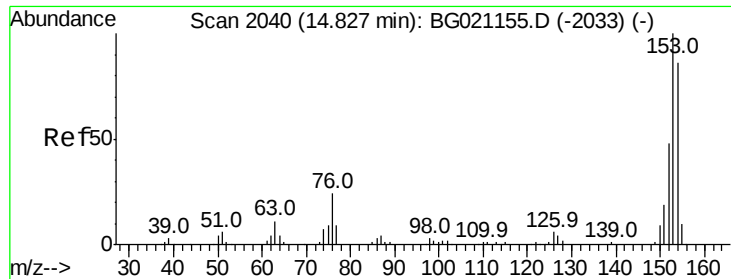
Abundance

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: 4.44 ng

RT: 14.82 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

ClientSampleID :

40054+15(0-2)DL

Tot Ion:154 Resp: 9298

Ion Ratio Lower Upper

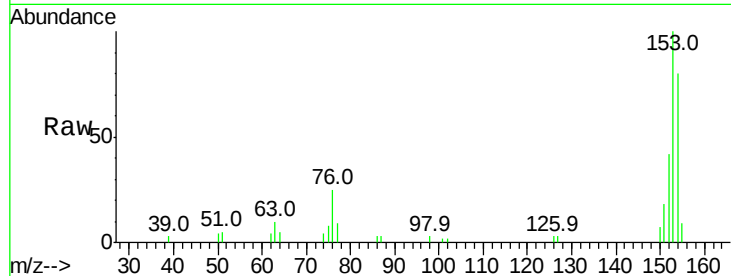
154 100

153 125.2 94.2 141.2

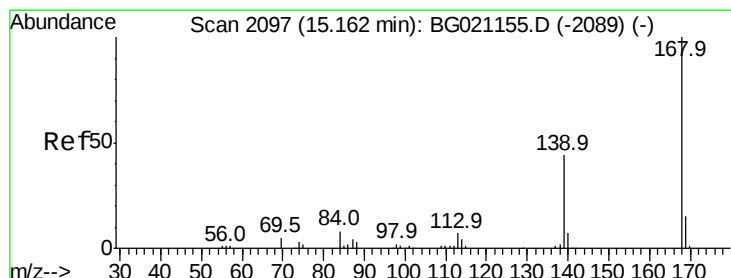
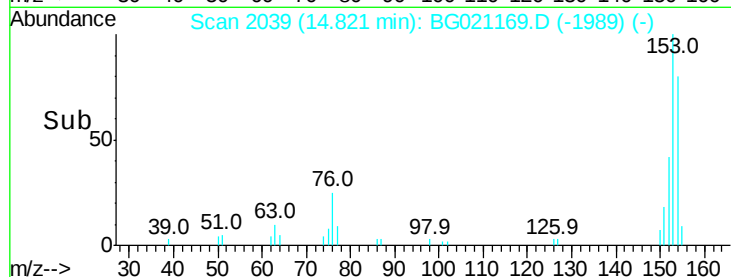
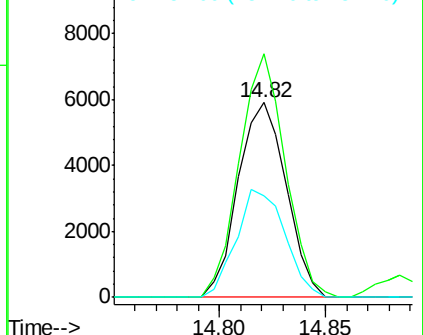
152 52.4 42.9 64.3

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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: 3.49 ng

RT: 15.15 min Scan# 2095

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Tgt Ion:168 Resp: 9775

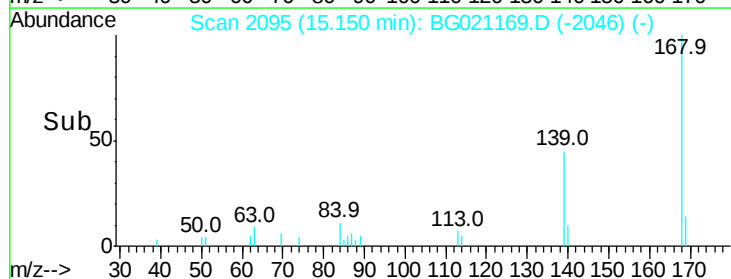
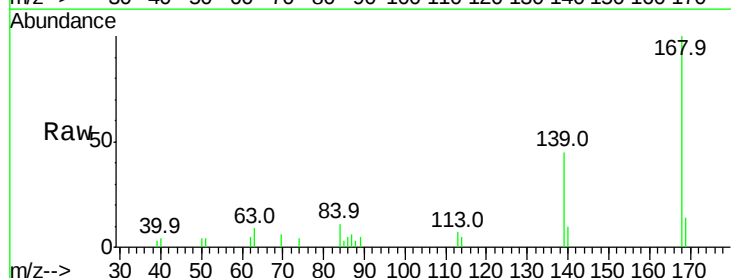
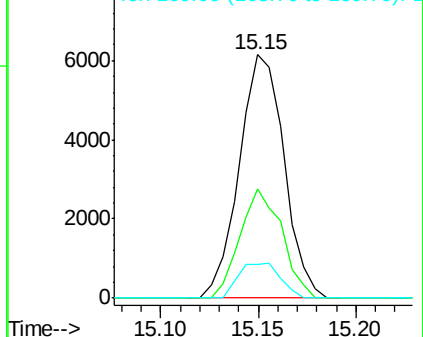
Ion Ratio Lower Upper

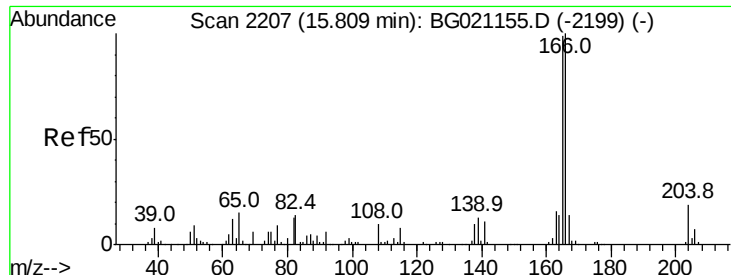
168 100

139 45.0 29.8 44.8#

169 13.7 11.4 17.2

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





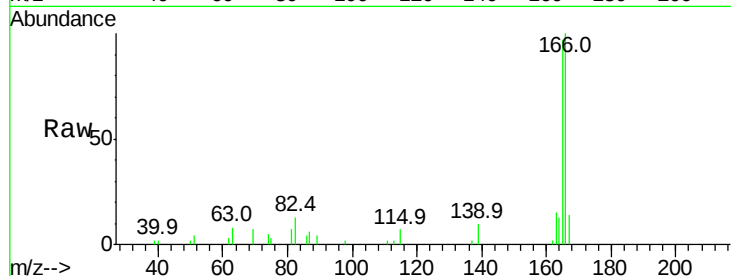
#57
Fluorene
 Concen: 4.50 ng
 RT: 15.80 min Scan# 2205
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	81.3	121.9
167	14.2	10.6	16.0

Manual Integrations
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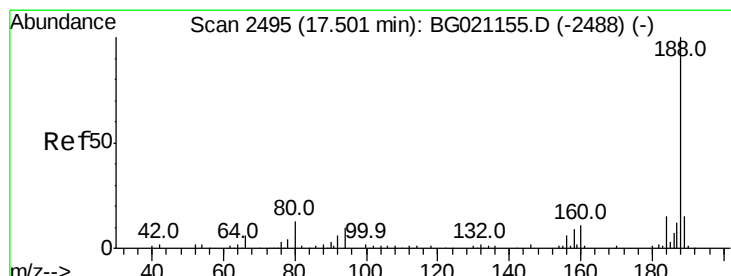
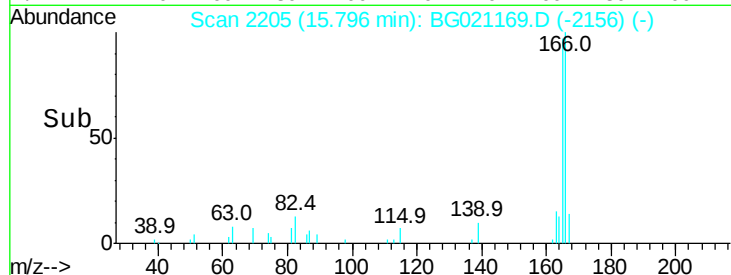
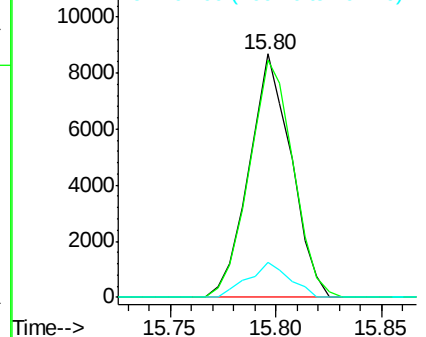


Abundance

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: 17.49 min Scan# 2494
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

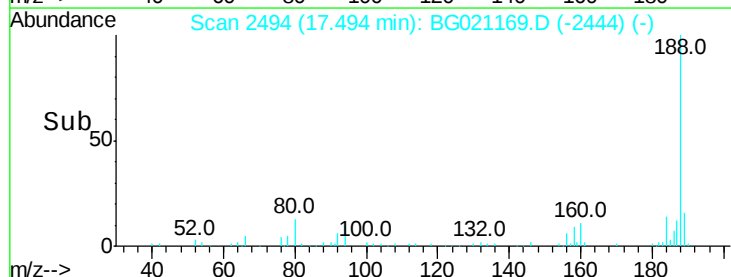
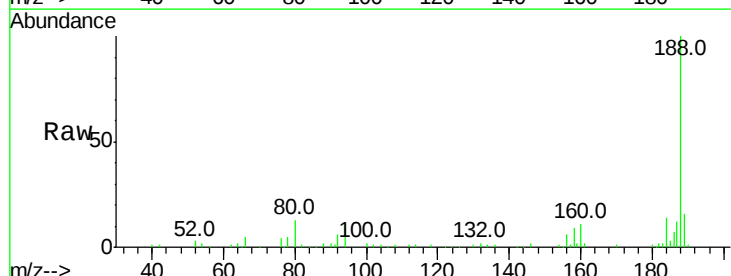
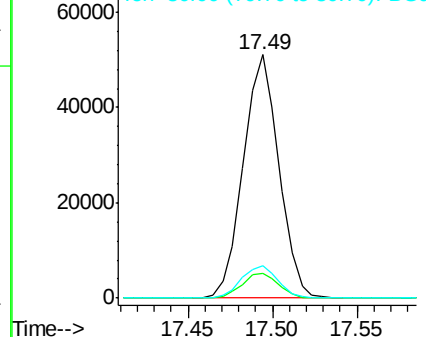
Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.4
80	13.2	9.2	13.8

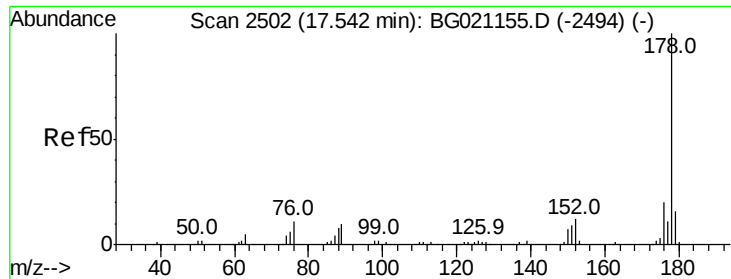
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 34.25 ng

RT: 17.54 min Scan# 2501

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

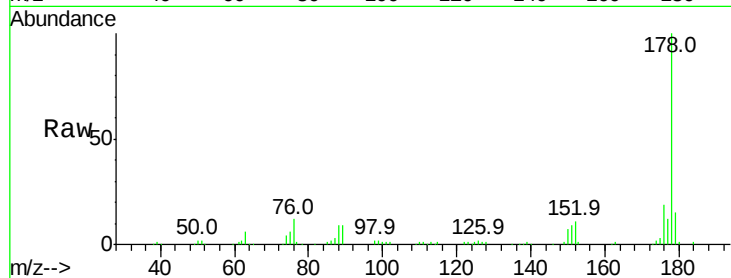
ClientSampleId :

40054+15(0-2)DL

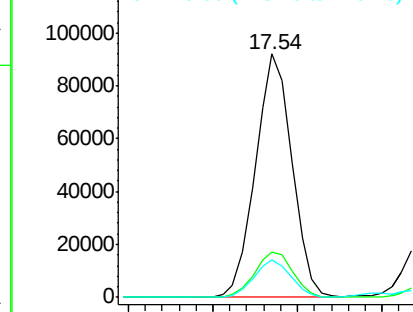
Tot Ion:	178	Resp:	138424
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.2	24.4
179	15.4	12.9	19.3

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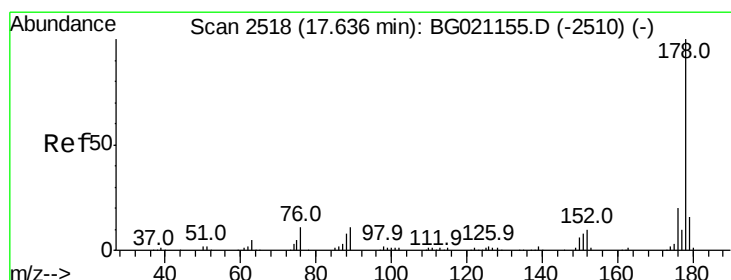
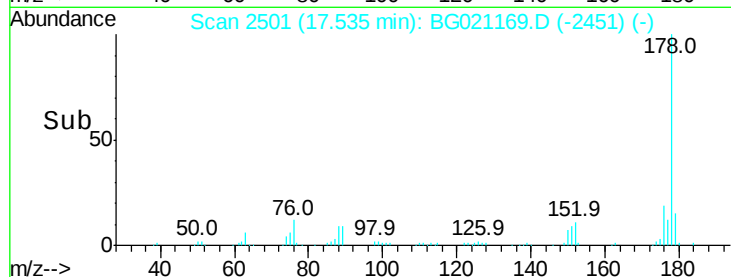
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time--> 17.45 17.50 17.55 17.60



#71

Anthracene

Concen: 8.40 ng

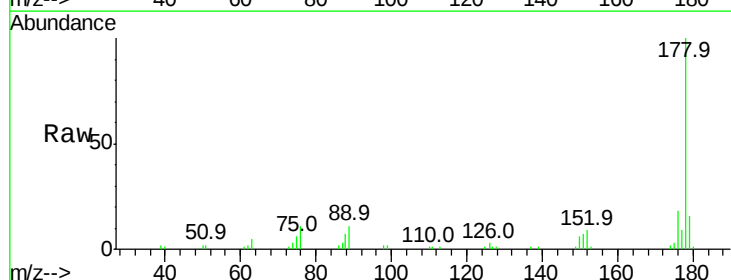
RT: 17.63 min Scan# 2517

Delta R.T. -0.01 min

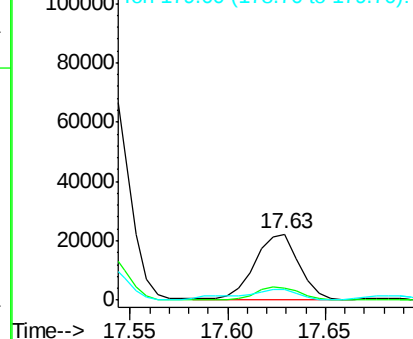
Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

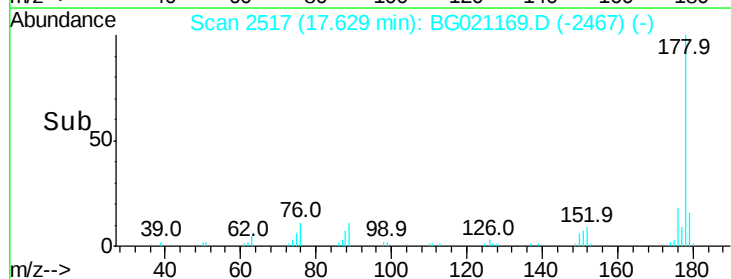
Tgt Ion:	178	Resp:	34721
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.8	22.2
179	16.2	12.6	19.0

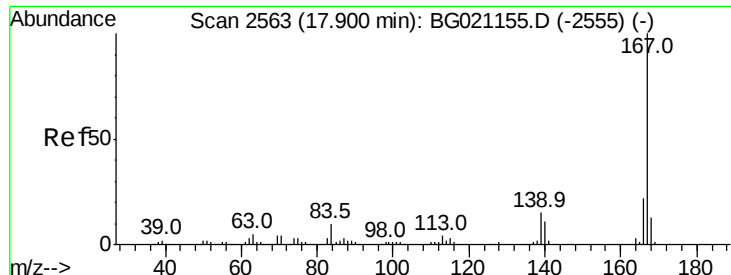


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time--> 17.55 17.60 17.65





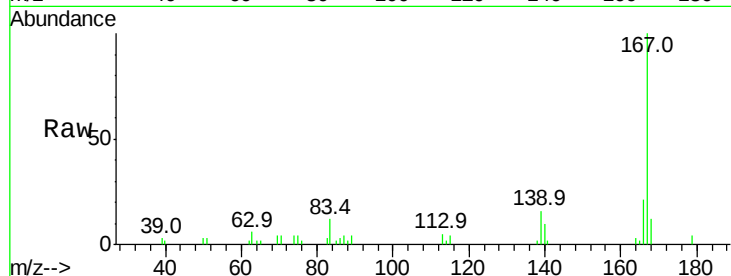
#72
 Carbazole
 Concen: 4.36 ng
 RT: 17.89 min Scan# 2561
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)DL

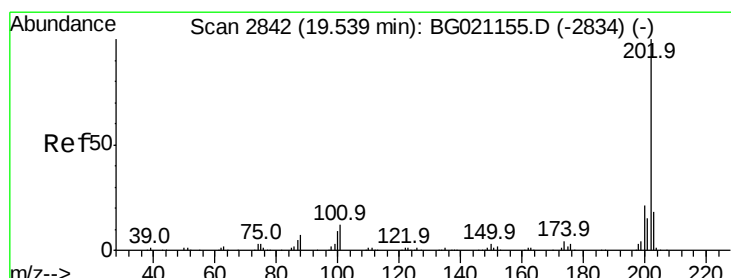
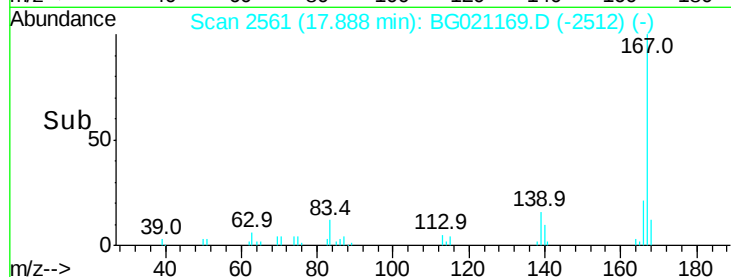
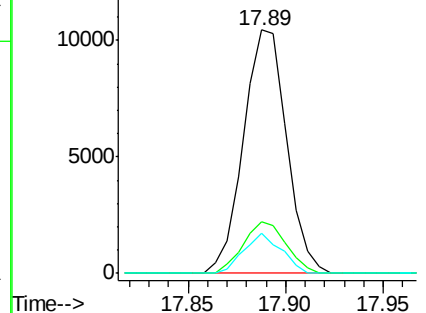
Tot Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.5	26.3
139	16.2	10.3	15.5#

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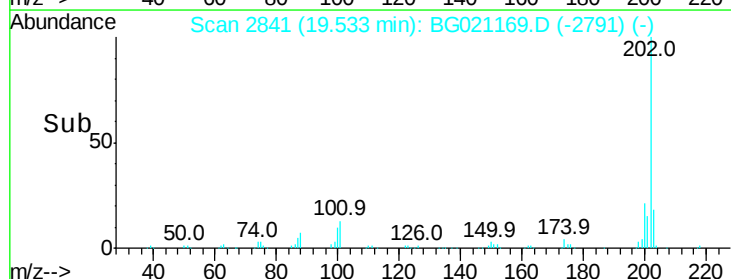
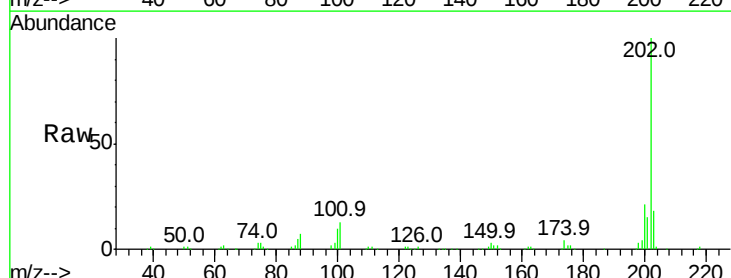
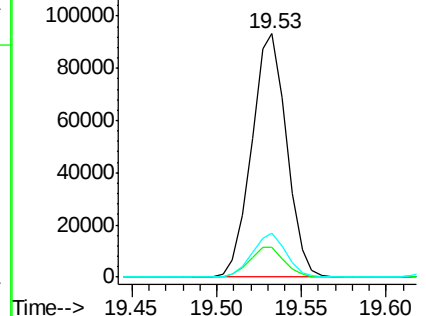
Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

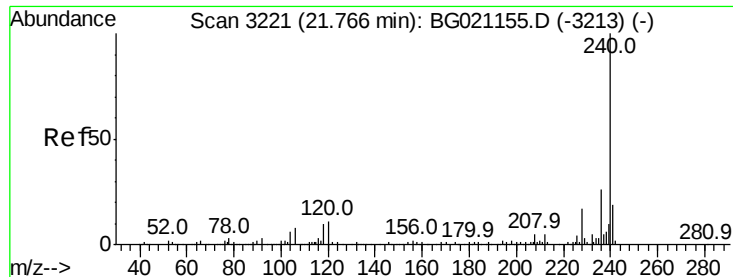


#74
 Fluoranthene
 Concen: 28.22 ng
 RT: 19.53 min Scan# 2841
 Delta R.T. -0.01 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	32.5
203	18.0	0.0	37.6

Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

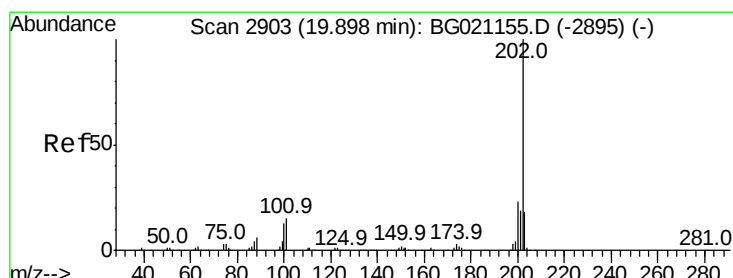
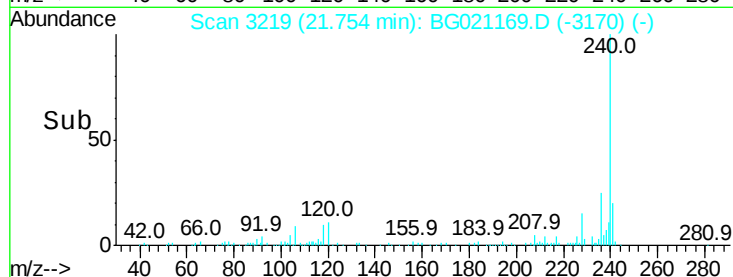
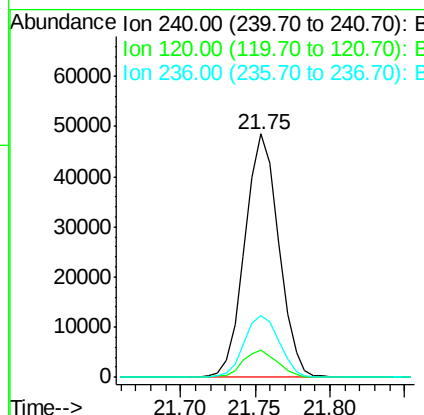
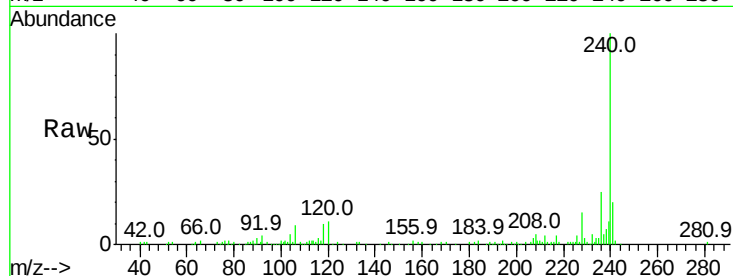
ClientSampleId :

40054+15(0-2)DL

Tot Ion:	240	Resp:	76255
Ion Ratio	Lower	Upper	
240	100		
120	11.0	7.5	11.3
236	25.4	20.5	30.7

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#77

Pyrene

Concen: 22.47 ng

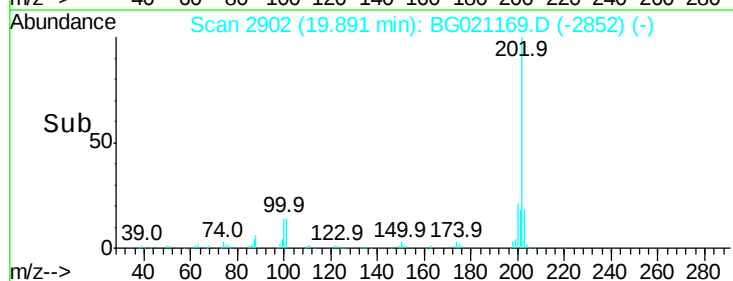
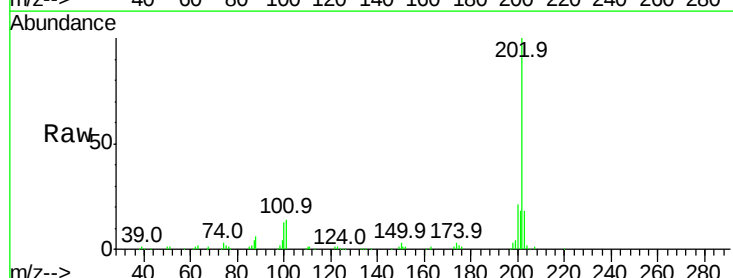
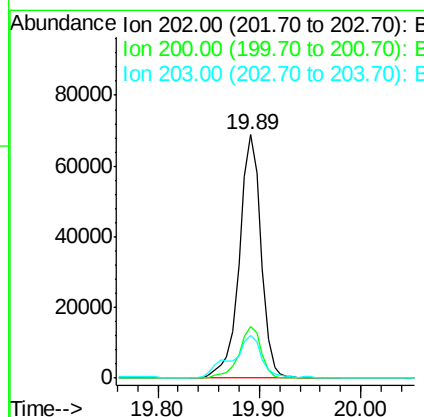
RT: 19.89 min Scan# 2902

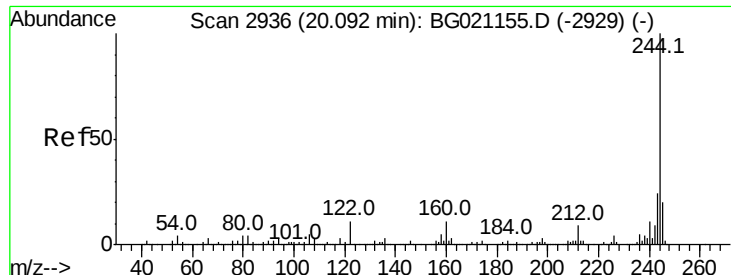
Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Tgt Ion:	202	Resp:	102233
Ion Ratio	Lower	Upper	
202	100		
200	21.4	16.6	25.0
203	17.7	13.8	20.8





#78

Terphenyl-d14

Concen: 2.84 ng

RT: 20.09 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021169.D

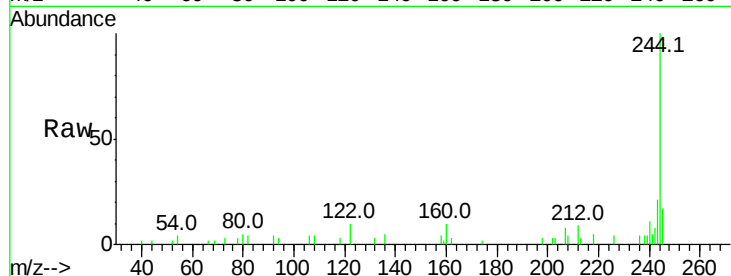
Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

ClientSampleId :

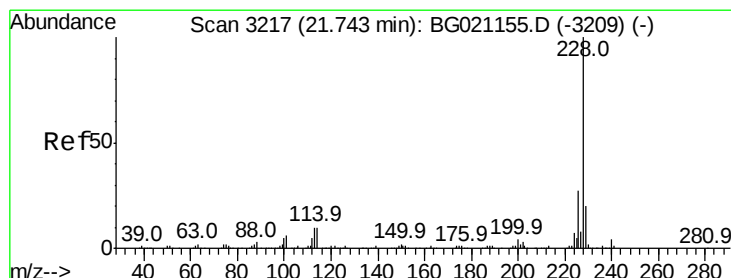
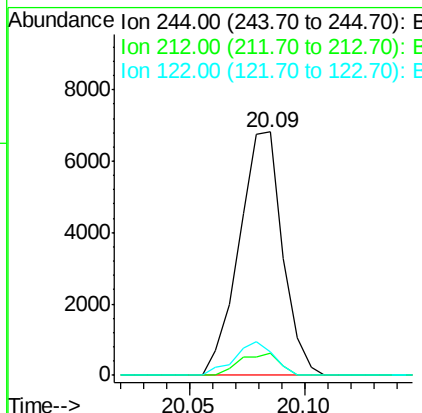
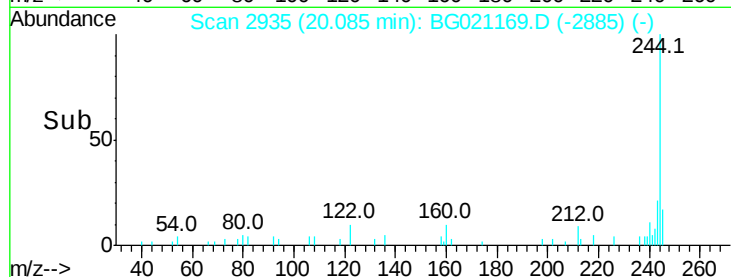
40054+15(0-2)DL



Tot Ion:	244	Resp:	8939
Ion Ratio	Lower	Upper	
244	100		
212	9.1	5.8	8.6#
122	9.7	8.3	12.5

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#80

Benzo(a)anthracene

Concen: 12.23 ng

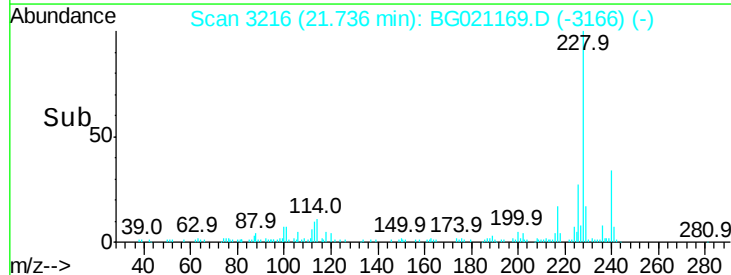
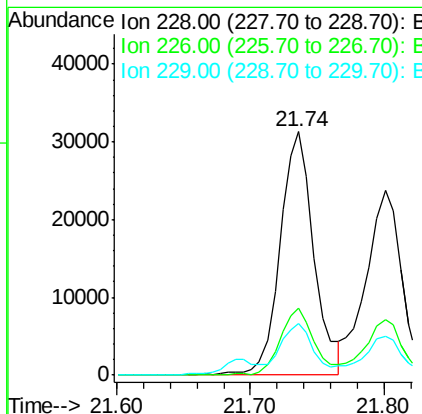
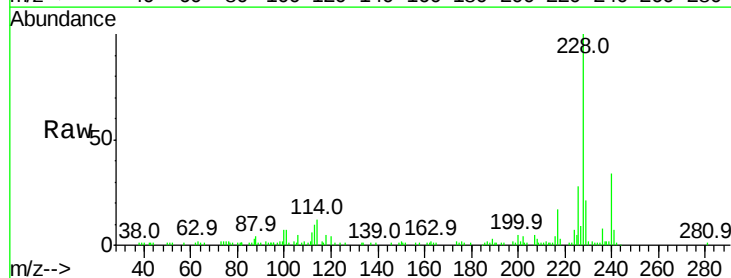
RT: 21.74 min Scan# 3216

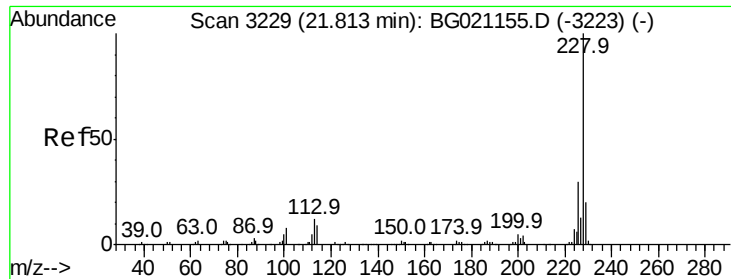
Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Tgt Ion:	228	Resp:	55221
Ion Ratio	Lower	Upper	
228	100		
226	27.7	22.7	34.1
229	21.3	15.5	23.3





#82

Chrysene

Concen: 10.18 ng

RT: 21.80 min Scan# 3227

Delta R.T. -0.01 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Instrument :

BNA_G

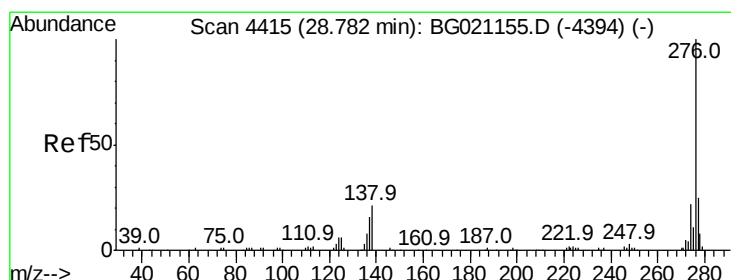
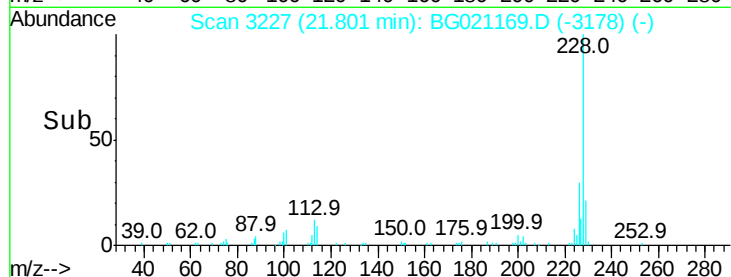
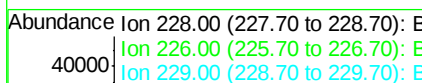
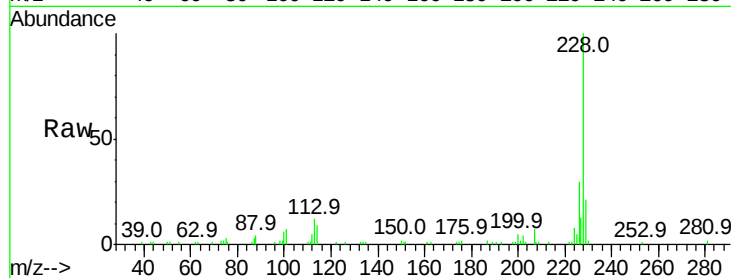
ClientSampleId :

40054+15(0-2)DL

Tot Ion:	228	Resp:	43541
Ion Ratio	Lower	Upper	
228	100		
226	30.4	23.7	35.5
229	21.3	16.7	25.1

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#85

Indeno(1,2,3-cd)pyrene

Concen: 4.58 ng

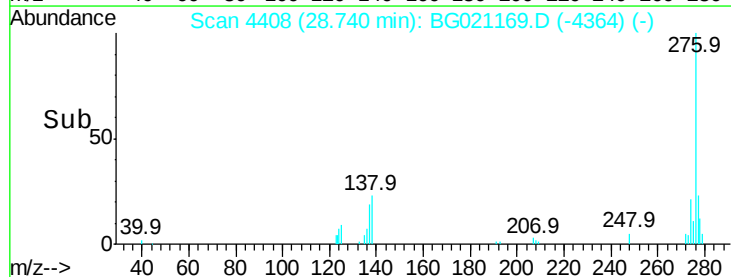
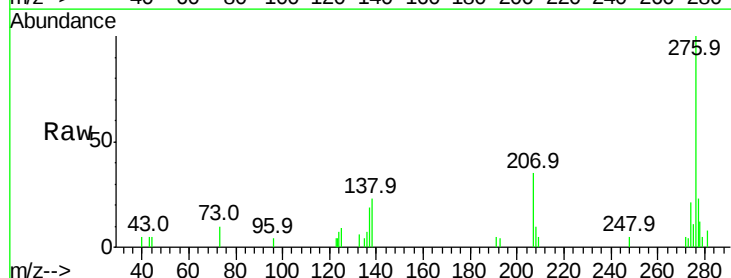
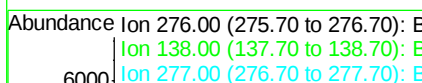
RT: 28.74 min Scan# 4408

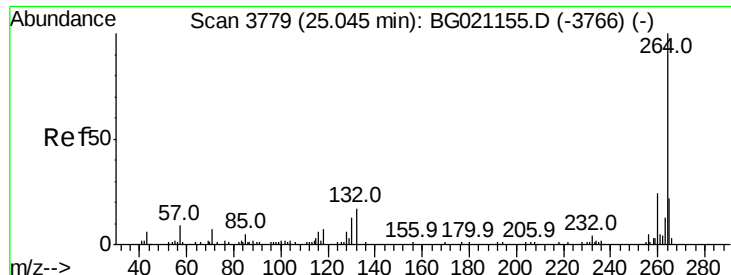
Delta R.T. -0.04 min

Lab File: BG021169.D

Acq: 1 Mar 2016 00:10

Tgt Ion:	276	Resp:	22447
Ion Ratio	Lower	Upper	
276	100		
138	24.0	0.0	0.0#
277	24.8	0.0	0.0#





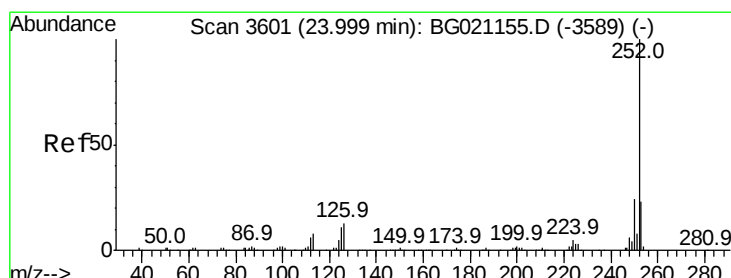
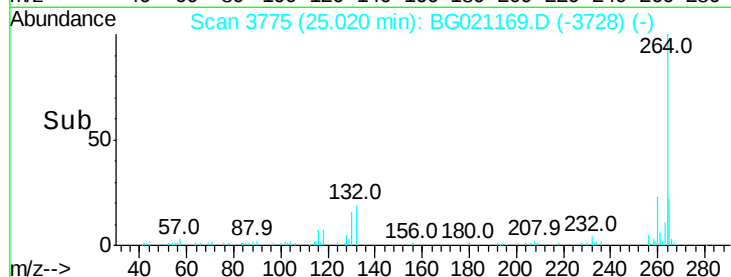
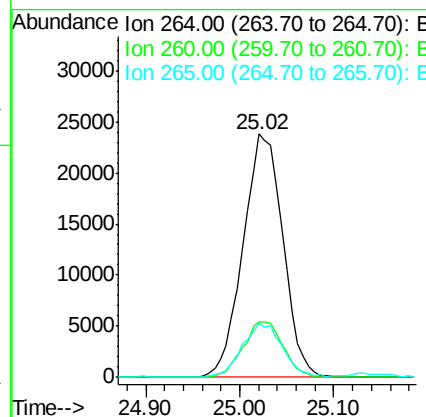
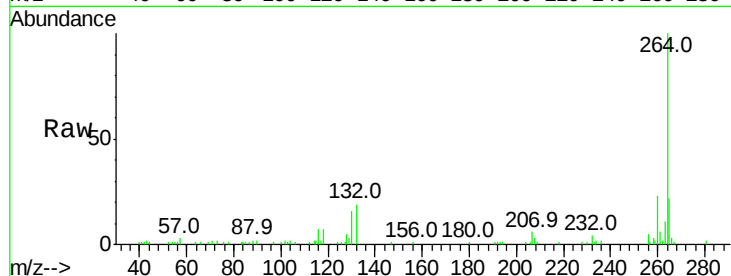
#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.02 min Scan# 3775
Delta R.T. -0.02 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.5	27.7
265	22.2	18.6	28.0

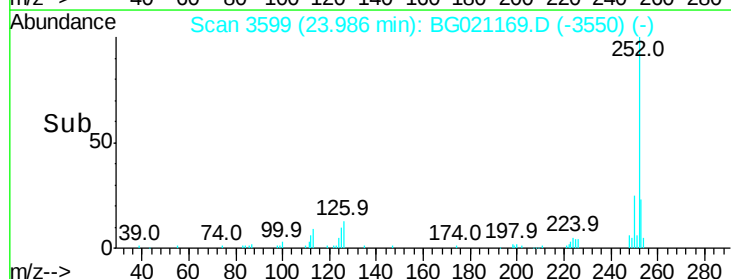
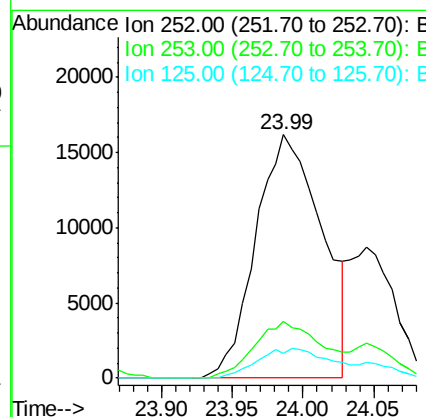
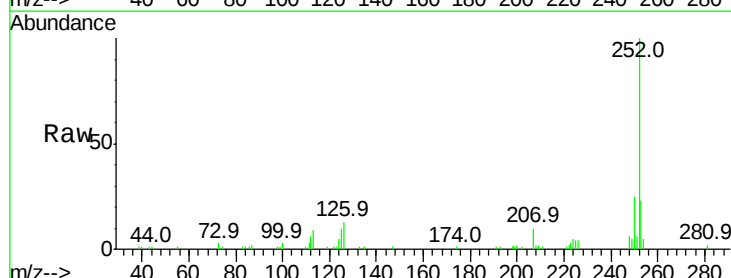
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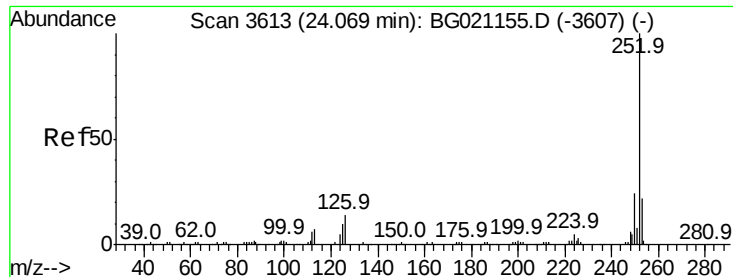
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#87
Benzo(b)fluoranthene
Concen: 12.02 ng
RT: 23.99 min Scan# 3599
Delta R.T. -0.01 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	16.8	25.2
125	10.1	8.2	12.2





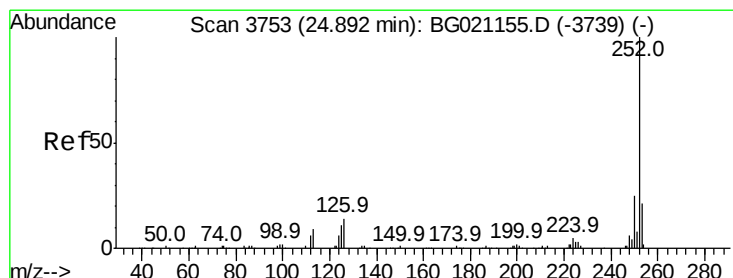
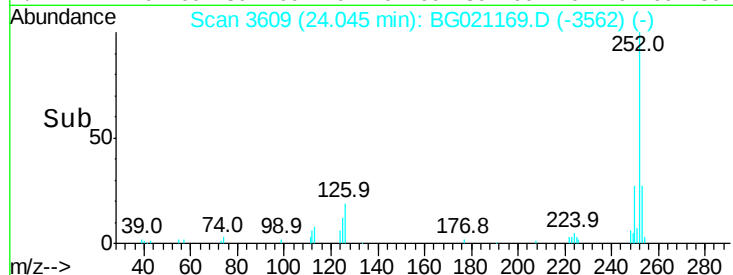
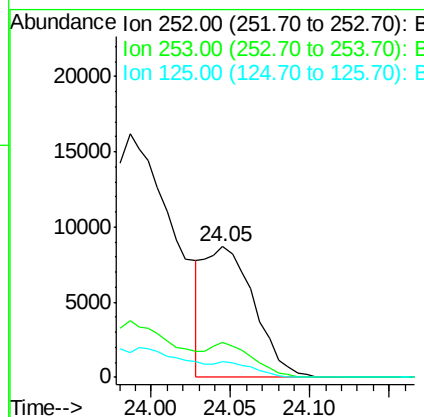
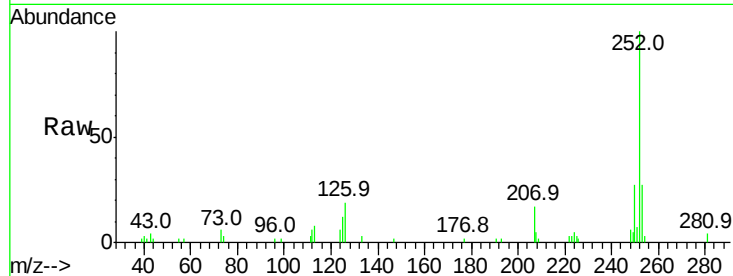
#88
Benzo(k)fluoranthene
Concen: 4.34 ng m
RT: 24.05 min Scan# 3609
Delta R.T. -0.02 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.1	16.4	24.6
125	11.6	8.2	12.2

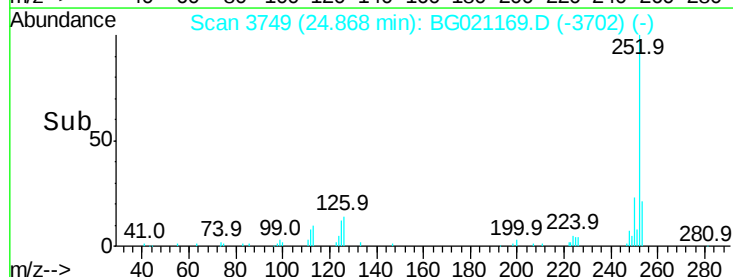
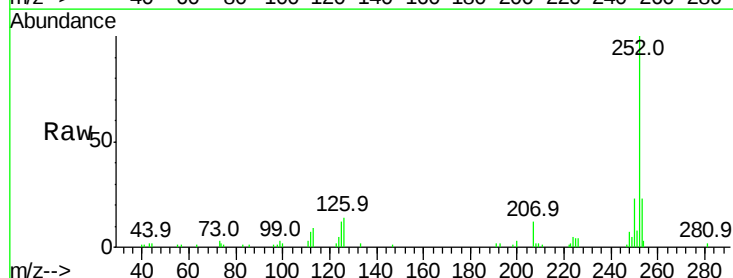
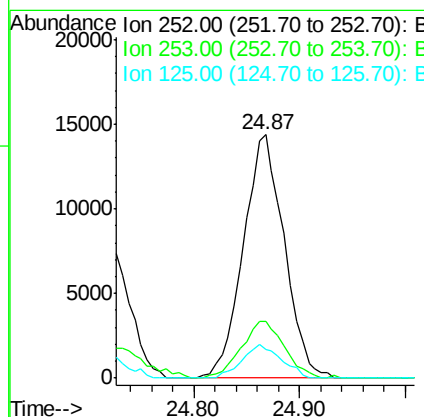
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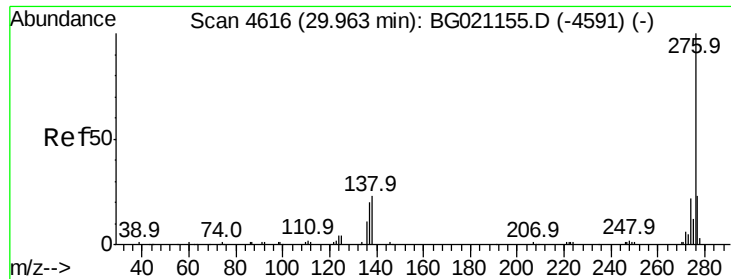
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#89
Benzo(a)pyrene
Concen: 9.07 ng
RT: 24.87 min Scan# 3749
Delta R.T. -0.02 min
Lab File: BG021169.D
Acq: 1 Mar 2016 00:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	15.8	23.8
125	11.6	8.4	12.6





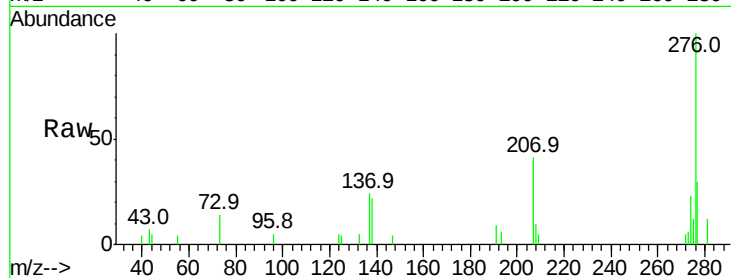
#91
 Benzo(a,h,i)perylene
 Concen: 4.70 ng
 RT: 29.91 min Scan# 4608
 Delta R.T. -0.05 min
 Lab File: BG021169.D
 Acq: 1 Mar 2016 00:10

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	29.6	16.6	25.0#
138	21.8	14.6	21.8

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

