

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060615\
 Data File : BG017528.D
 Acq On : 7 Jun 2015 11:05
 Operator : TP/IZ
 Sample : G2457-09 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SP-5

Manual Integrations
 APPROVED

apatel
 6/8/2015 6:00:51 PM

Quant Time: Jun 08 07:43:40 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 04 01:31:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	19657	20.00	ng	-0.01
21) Naphthalene-d8	10.41	136	87073	20.00	ng	-0.01
38) Acenaphthene-d10	14.29	164	56879	20.00	ng	0.00
63) Phenanthrene-d10	17.04	188	120348	20.00	ng	0.00
75) Chrysene-d12	21.24	240	145191	20.00	ng	0.00
86) Perylene-d12	23.48	264	139635	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.21	112	91091	81.64	ng	0.00
7) Phenol-d6	6.83	99	125700	82.70	ng	0.00
23) Nitrobenzene-d5	8.79	82	89588	51.36	ng	0.00
41) 2,4,6-Tribromophenol	15.79	330	53394	67.59	ng	0.00
44) 2-Fluorobiphenyl	12.91	172	187730	49.79	ng	0.00
78) Terphenyl-d14	19.68	244	276080	39.30	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	14.02	152	25245	4.12	ng	95
49) Dimethylphthalate	13.75	163	56451	11.40	ng	98
51) Acenaphthene	14.35	154	11230	3.11	ng	87
54) Dibenzofuran	14.69	168	13086	2.46	ng	# 86
57) Fluorene	15.34	166	18709	3.87	ng	83
70) Phenanthrene	17.08	178	374348	55.79	ng	99
71) Anthracene	17.18	178	65248	9.73	ng	93
72) Carbazole	17.45	167	16168	2.44	ng	# 92
74) Fluoranthene	19.12	202	836185	95.30	ng	98
77) Pyrene	19.48	202	713381	79.76	ng	100
80) Benzo(a)anthracene	21.23	228	340392	38.12	ng	96
82) Chrysene	21.28	228	323177	39.97	ng	97
85) Indeno(1,2,3-cd)pyrene	25.76	276	183627	18.09	ng	97
87) Benzo(b)fluoranthene	22.81	252	419809m	47.44	ng	
88) Benzo(k)fluoranthene	22.85	252	144561m	17.07	ng	
89) Benzo(a)pyrene	23.38	252	291209	35.88	ng	99
90) Dibenzo(a,h)anthracene	25.76	278	51933	6.16	ng	# 88
91) Benzo(g,h,i)perylene	26.46	276	167257	20.84	ng	96

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

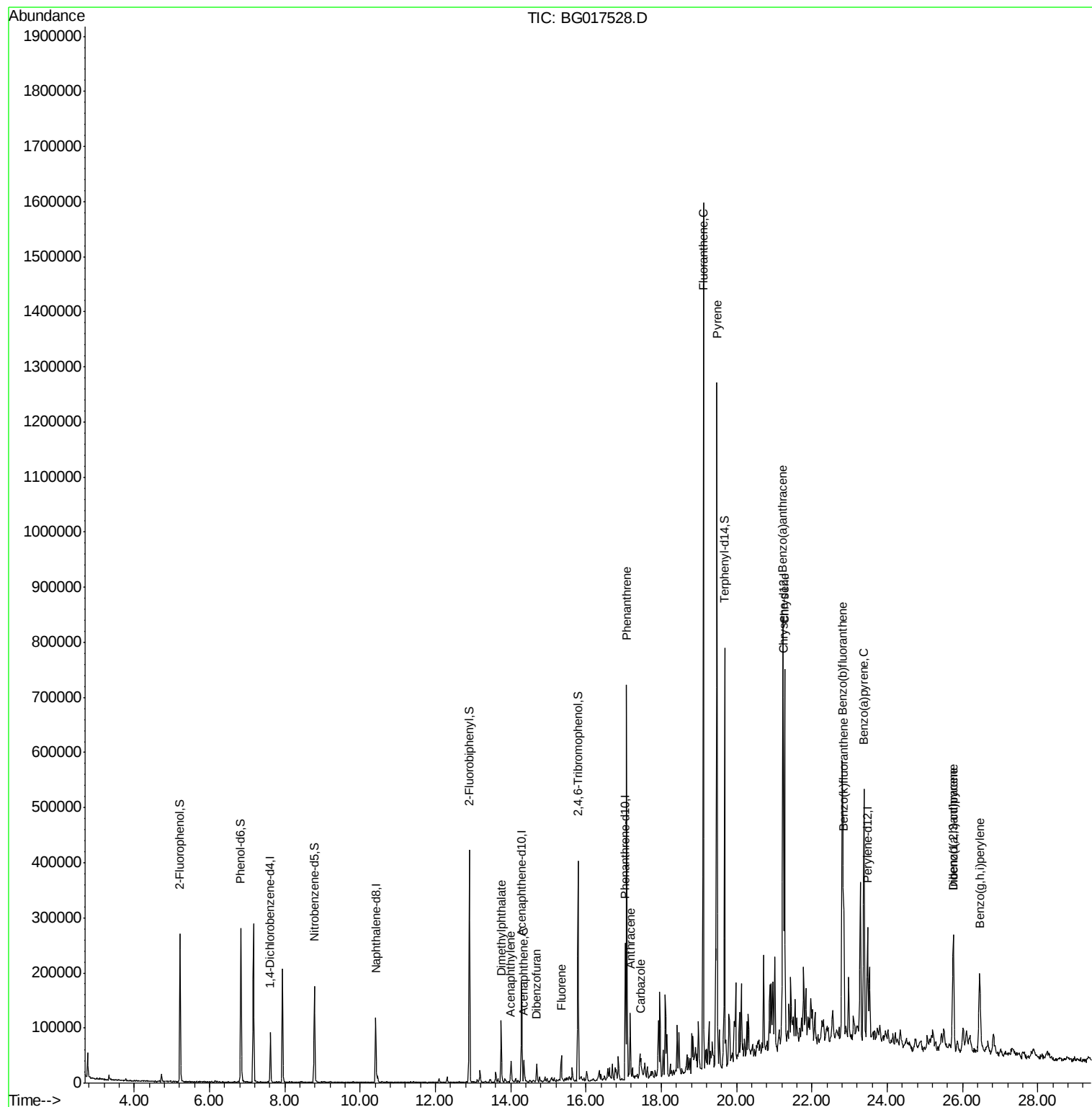
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060615\
Data File : BG017528.D
Acq On : 7 Jun 2015 11:05
Operator : TP/IZ
Sample : G2457-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

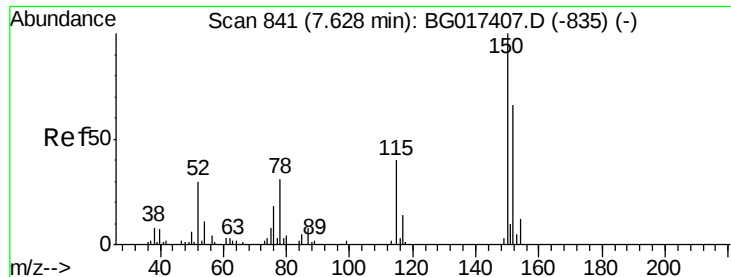
Instrument :
BNA_G
ClientSampleId :
SP-5

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM

Quant Time: Jun 08 07:43:40 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 04 01:31:15 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.62 min Scan# 839

Delta R.T. -0.01 min

Lab File: BG017528.D

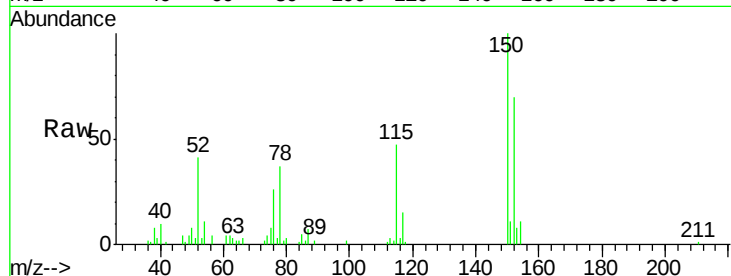
Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

ClientSampled :

SP-5



Tgt Ion:152 Resp: 19657

Ion Ratio Lower Upper

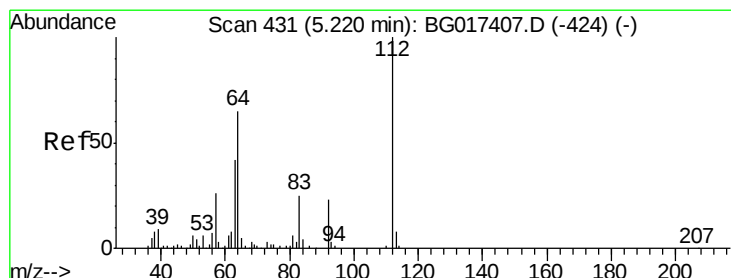
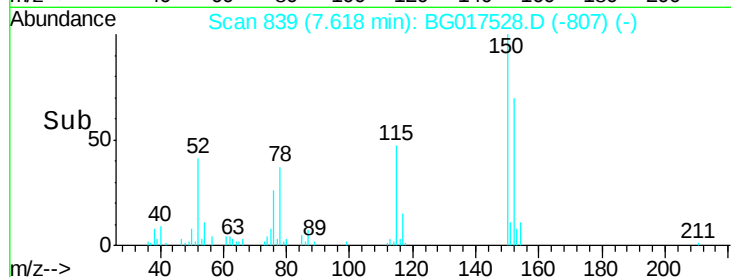
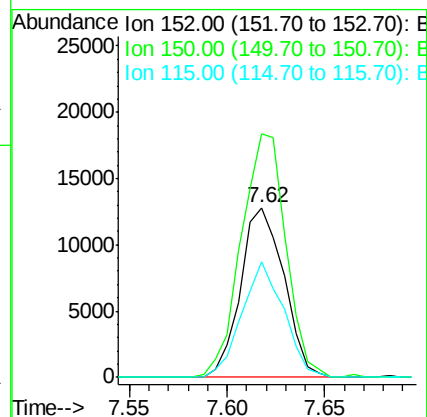
152 100

150 143.4 121.7 182.5

115 68.0 48.6 73.0

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#5

2-Fluorophenol

Concen: 81.64 ng

RT: 5.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

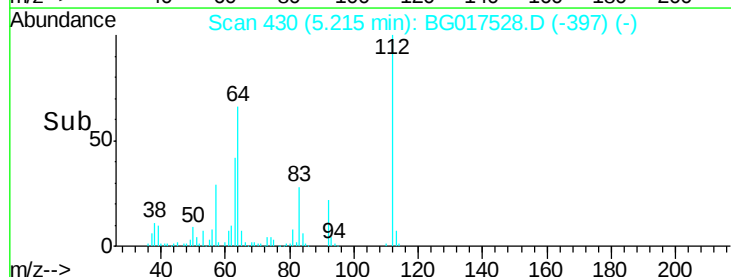
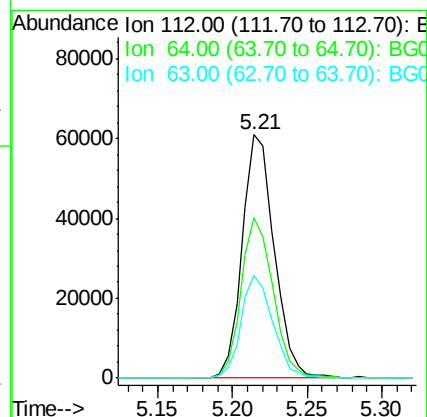
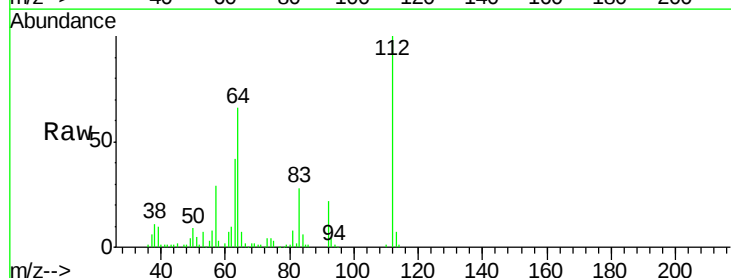
Tgt Ion:112 Resp: 91091

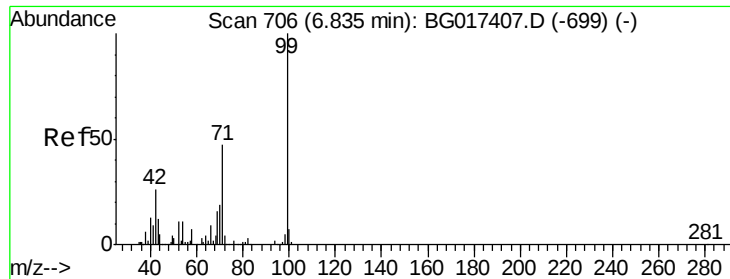
Ion Ratio Lower Upper

112 100

64 66.0 51.6 77.4

63 42.1 33.3 49.9





#7

Phenol-d6

Concen: 82.70 ng

RT: 6.83 min Scan# 705

Delta R.T. -0.00 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

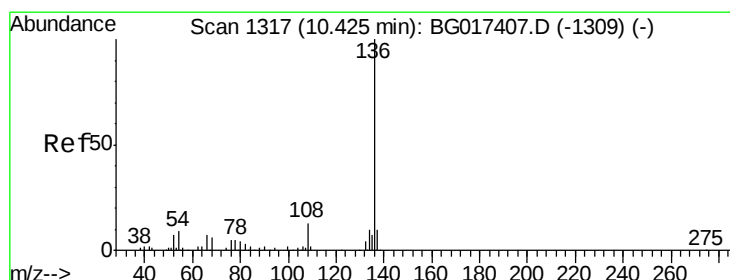
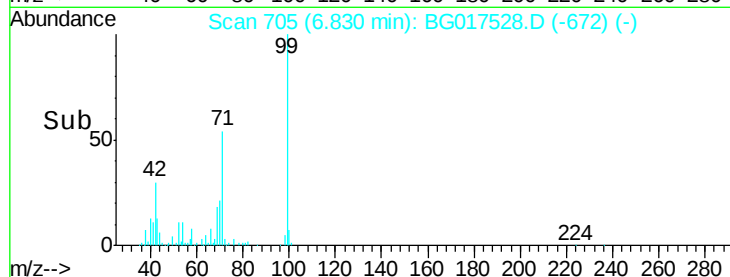
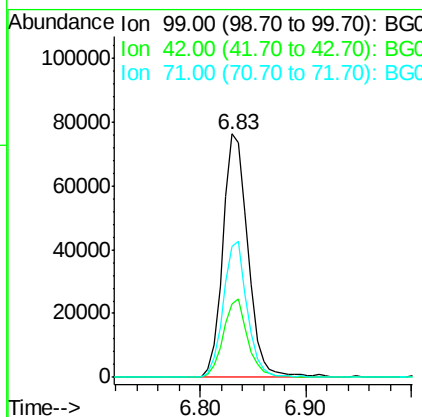
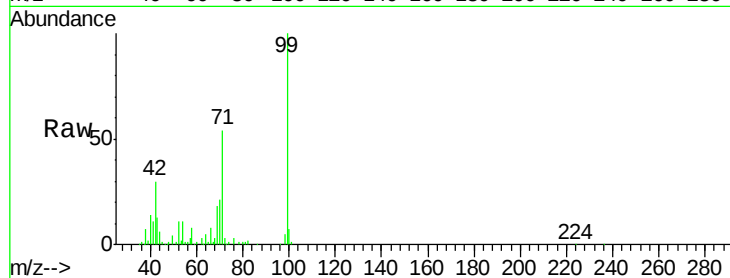
ClientSampleId :

SP-5

Tgt Ion	Ratio	Lower	Upper
99	100		
42	30.2	21.0	31.6
71	53.9	37.2	55.8

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#21

Naphthalene-d8

Concen: 20.00 ng

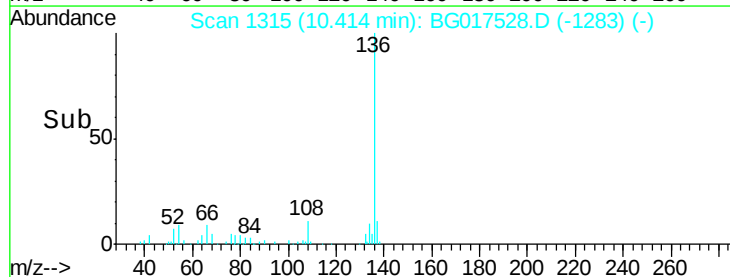
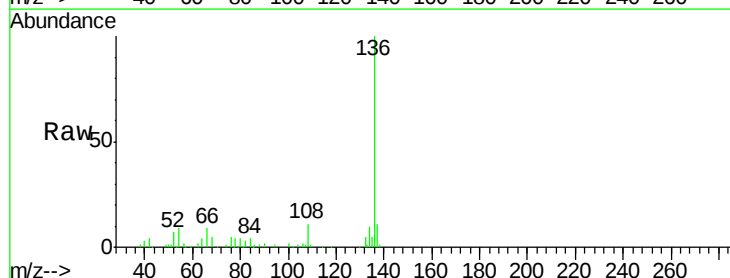
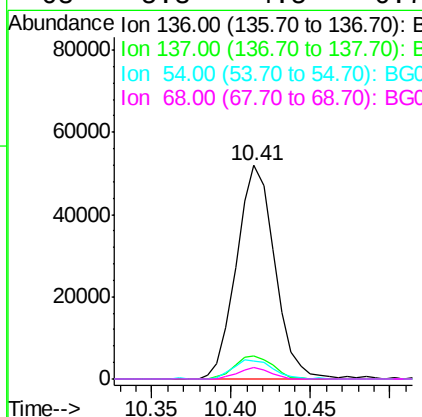
RT: 10.41 min Scan# 1315

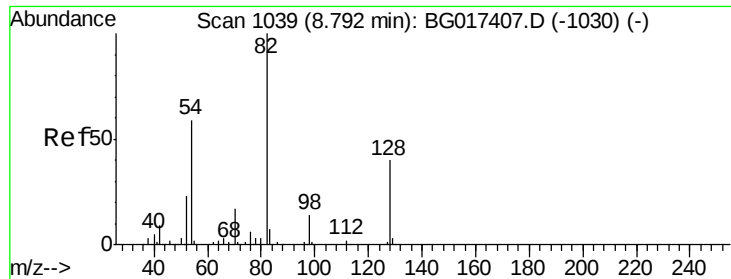
Delta R.T. -0.01 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	7.9	11.9
54	8.7	7.2	10.8
68	5.3	4.5	6.7





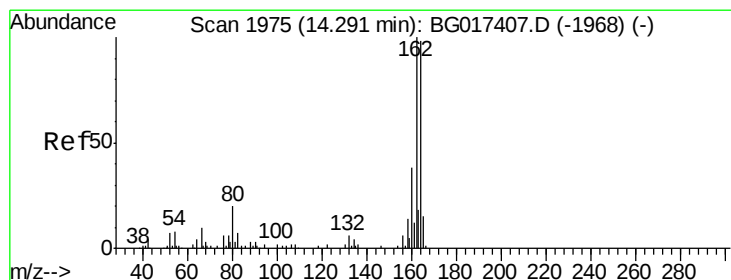
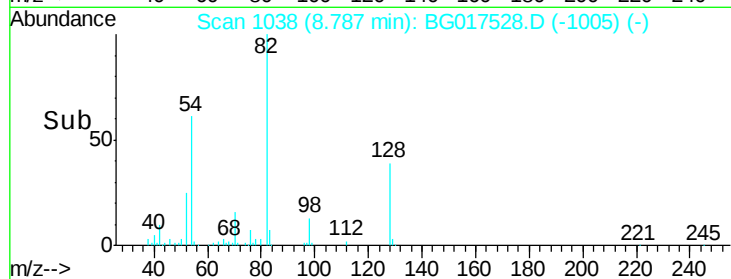
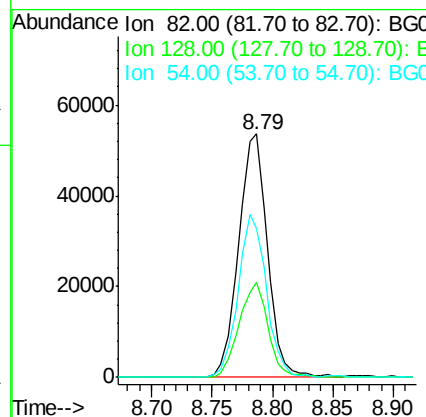
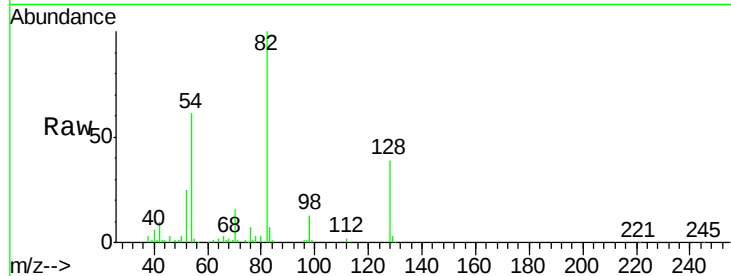
#23
 Nitrobenzene-d5
 Concen: 51.36 ng
 RT: 8.79 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Instrument :
 BNA_G
 ClientSampleId :
 SP-5

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	89588		
128	39.0	32.2	48.4	
54	61.3	47.4	71.2	

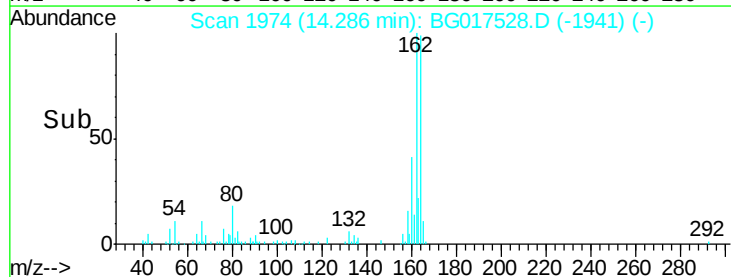
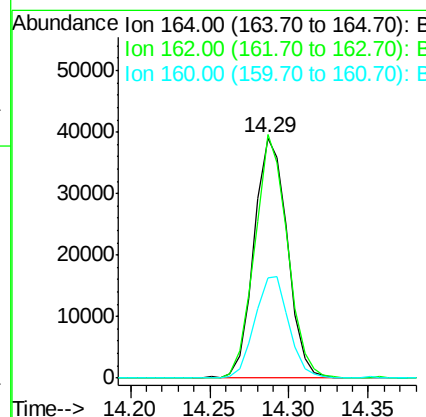
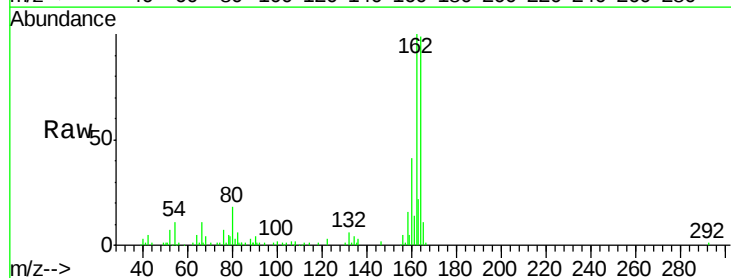
Manual Integrations
 APPROVED

apatel
 6/8/2015 6:00:51 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.29 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	56879		
162	101.4	81.8	122.6	
160	41.6	31.0	46.4	





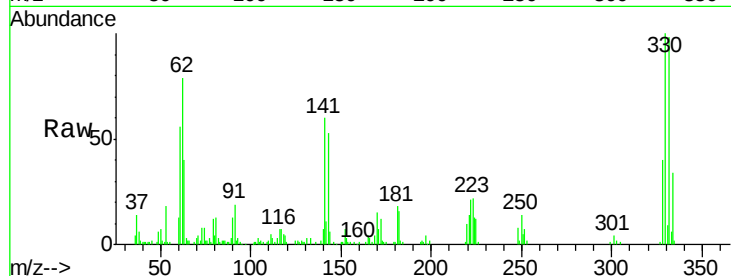
#41
 2,4,6-Tribromophenol
 Concen: 67.59 ng
 RT: 15.79 min Scan# 2230
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Instrument :
 BNA_G
 ClientSampled :
 SP-5

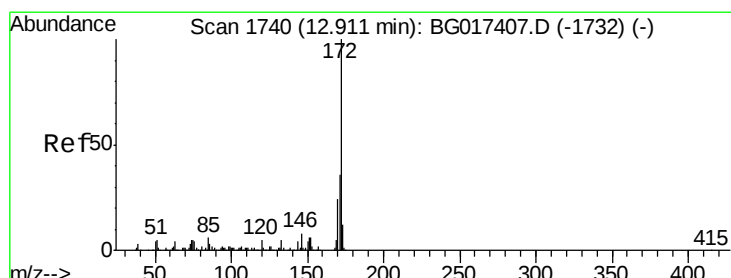
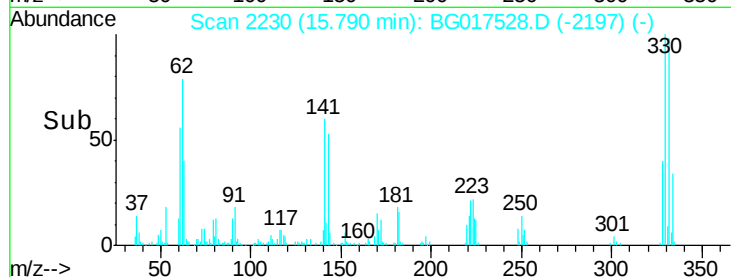
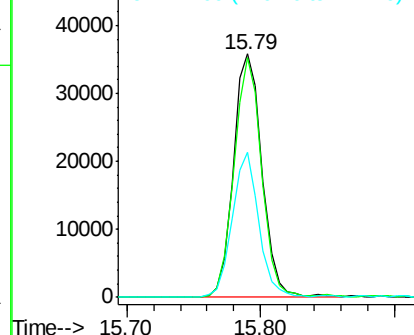
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	53394		
332	95.1	75.9	113.9	
141	55.7	40.2	60.4	

Manual Integrations
 APPROVED

apatel
 6/8/2015 6:00:51 PM

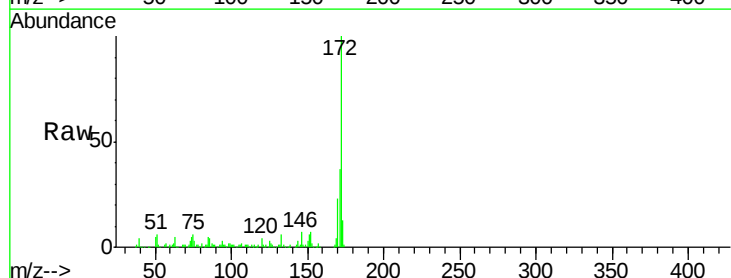


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

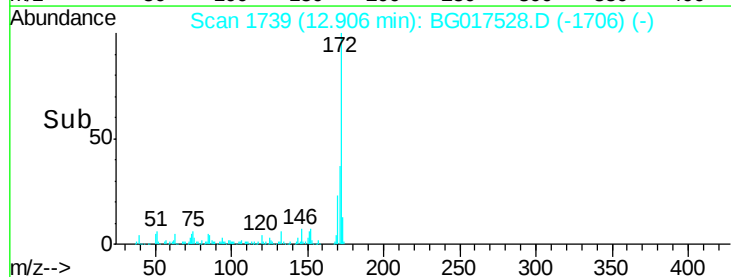
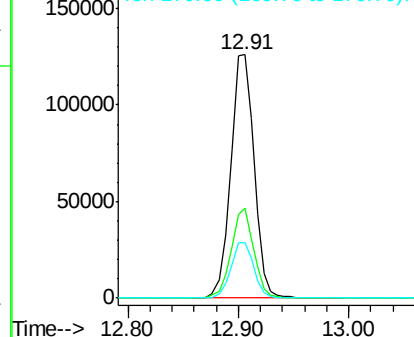


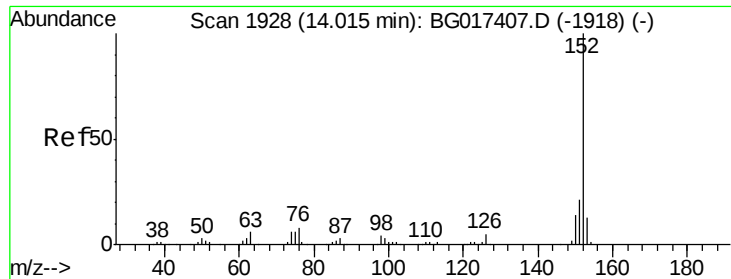
#44
 2-Fluorobiphenyl
 Concen: 49.79 ng
 RT: 12.91 min Scan# 1739
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	187730		
171	36.9	29.0	43.6	
170	22.9	18.9	28.3	



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





#48

Acenaphthylene

Concen: 4.12 ng

RT: 14.02 min Scan# 1928

Delta R.T. 0.00 min

Lab File: BG017528.D

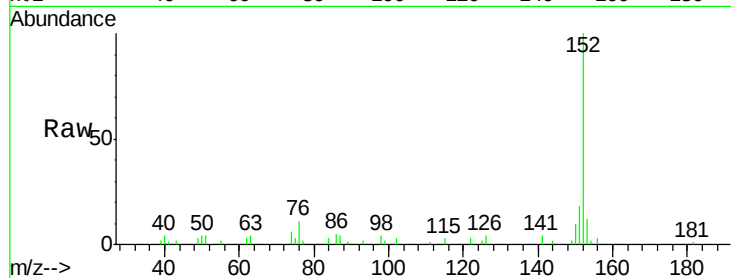
Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

ClientSampleId :

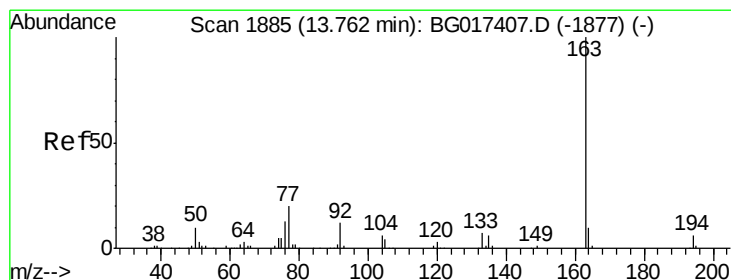
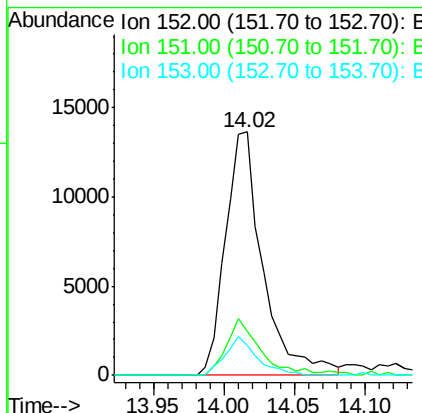
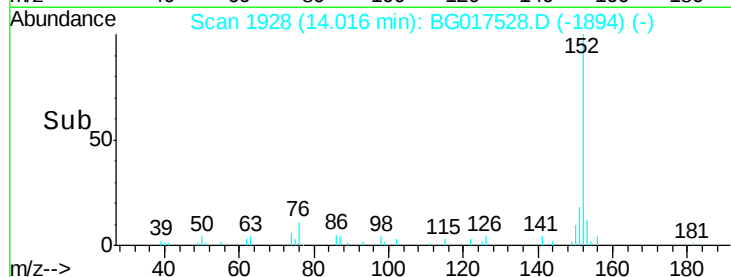
SP-5



Tgt Ion	Ratio	Lower	Upper
152	100		
151	17.9	16.5	24.7
153	12.1	10.7	16.1

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#49

Dimethylphthalate

Concen: 11.40 ng

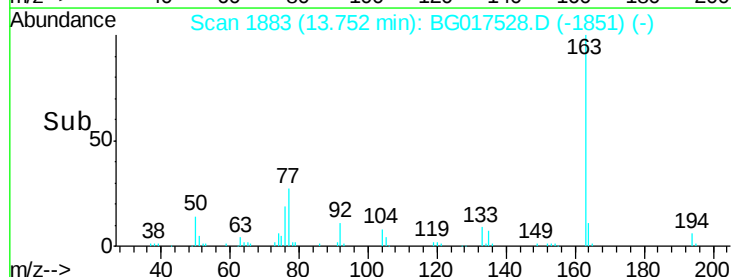
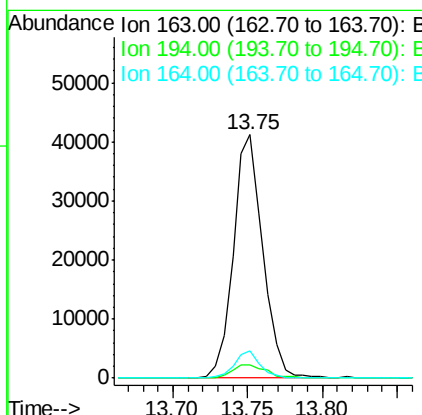
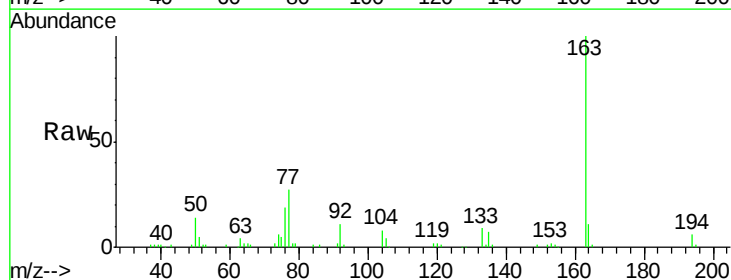
RT: 13.75 min Scan# 1883

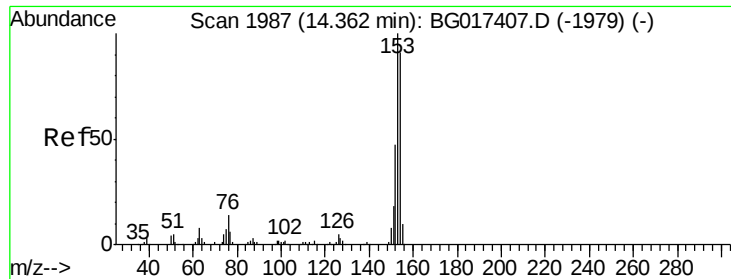
Delta R.T. -0.01 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.5	4.9	7.3
164	11.0	8.2	12.2





#51

Acenaphthene

Concen: 3.11 ng

RT: 14.35 min Scan# 1985

Delta R.T. -0.01 min

Lab File: BG017528.D

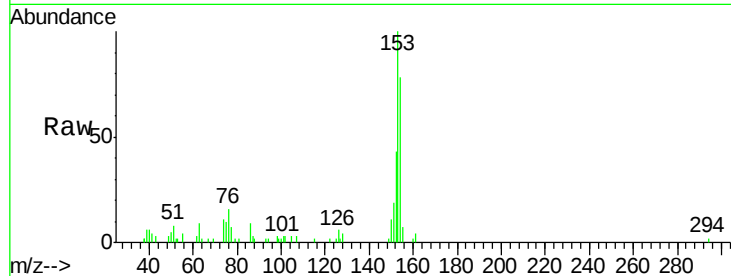
Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

ClientSampleId :

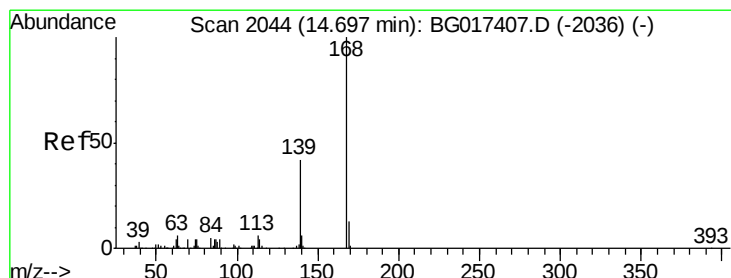
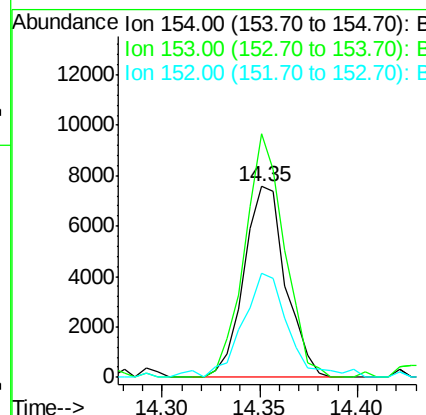
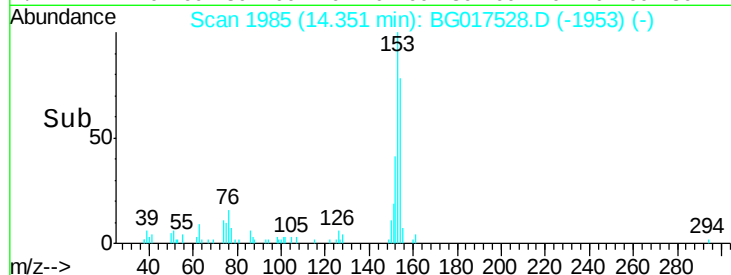
SP-5



Tgt Ion	Ratio	Lower	Upper
154	100		
153	127.7	87.7	131.5
152	54.6	40.8	61.2

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#54

Dibenzofuran

Concen: 2.46 ng

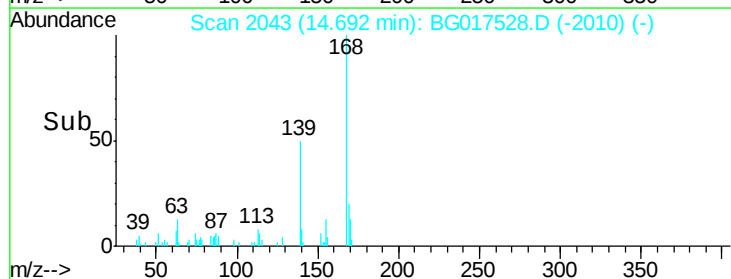
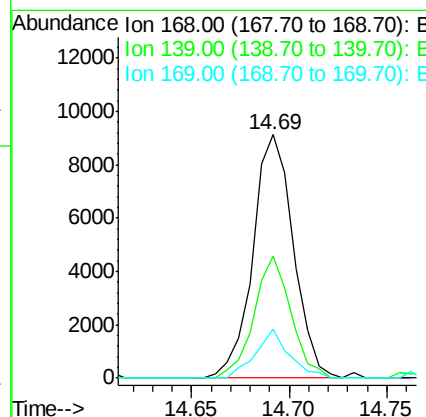
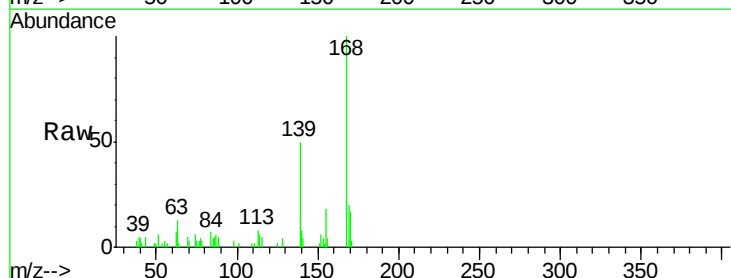
RT: 14.69 min Scan# 2043

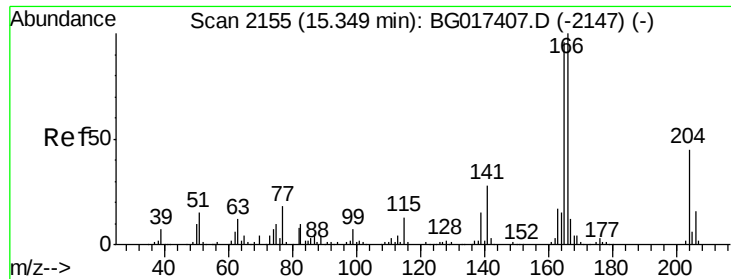
Delta R.T. -0.00 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Lower	Upper
168	100		
139	49.9	33.2	49.8#
169	20.3	10.6	16.0#





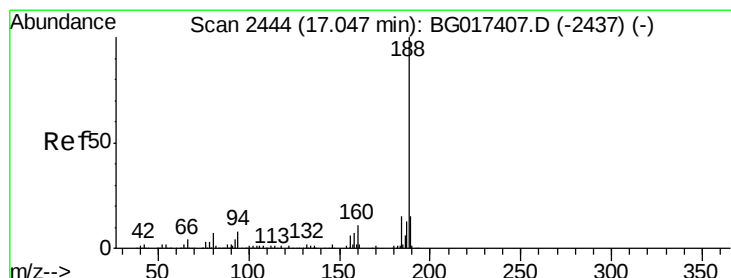
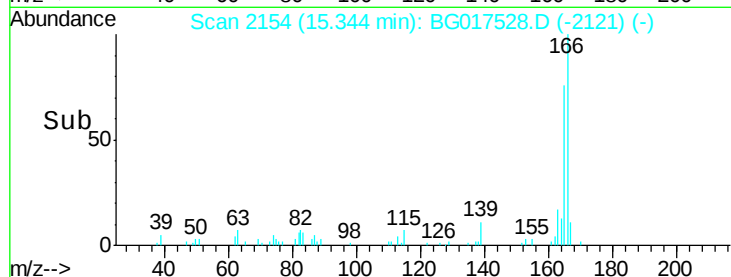
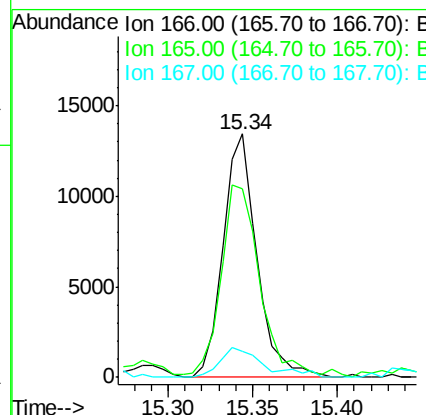
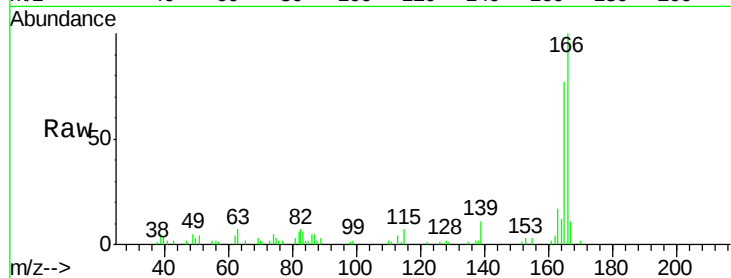
#57
 Fluorene
 Concen: 3.87 ng
 RT: 15.34 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Instrument :
 BNA_G
 ClientSampleId :
 SP-5

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	18709		
165	77.2	76.8	115.2	
167	10.8	9.9	14.9	

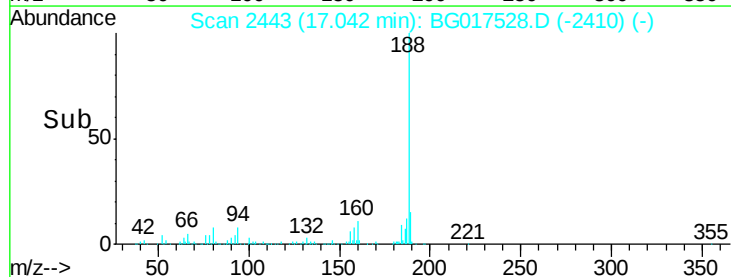
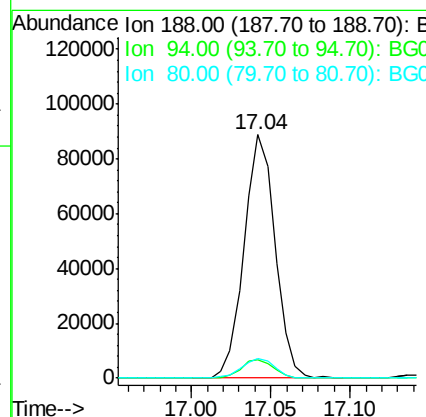
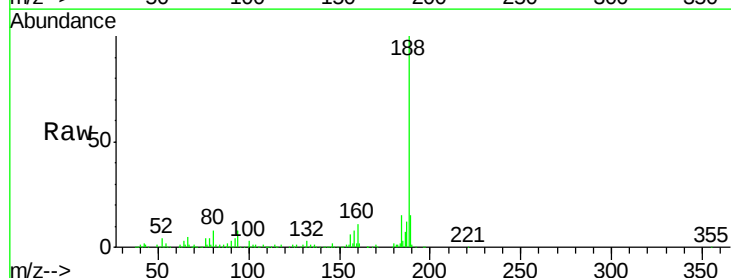
Manual Integrations
 APPROVED

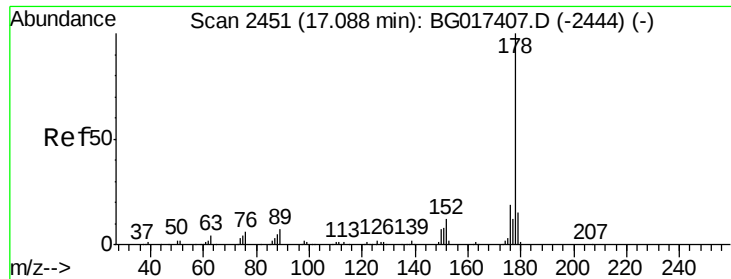
apatel
 6/8/2015 6:00:51 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.04 min Scan# 2443
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	120348		
94	7.5	6.3	9.5	
80	8.0	5.2	7.8	





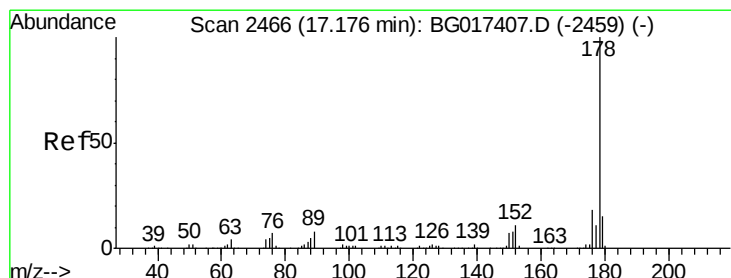
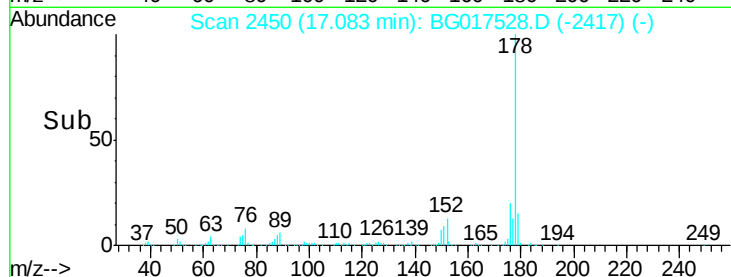
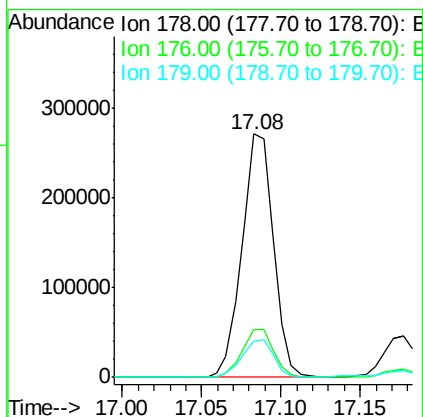
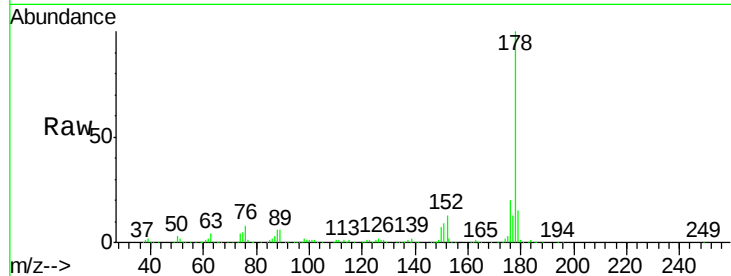
#70
Phenanthrene
Concen: 55.79 ng
RT: 17.08 min Scan# 2450
Delta R.T. -0.00 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Instrument :
BNA_G
ClientSampleId :
SP-5

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	374348		
176	19.9	15.6	23.4	
179	14.9	12.2	18.2	

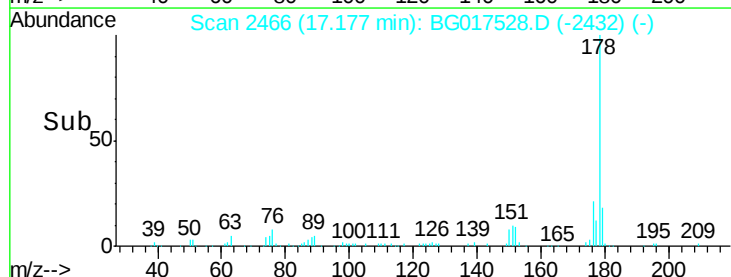
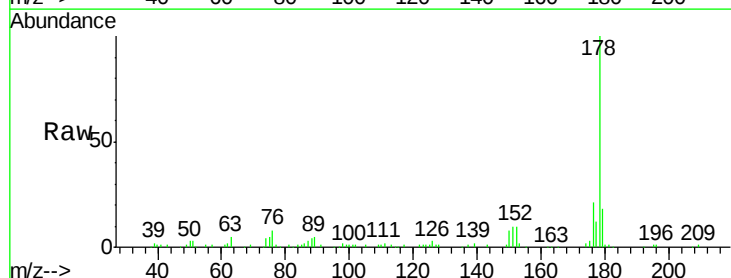
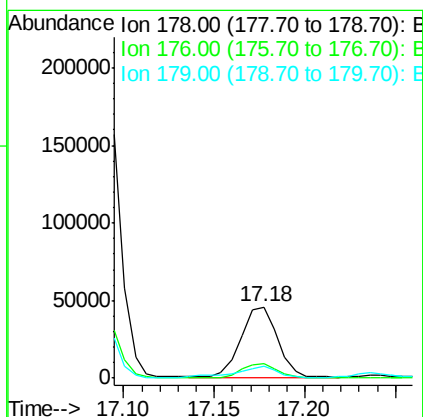
Manual Integrations
APPROVED

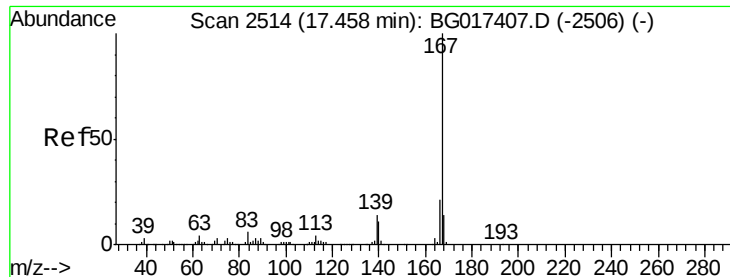
apatel
6/8/2015 6:00:51 PM



#71
Anthracene
Concen: 9.73 ng
RT: 17.18 min Scan# 2466
Delta R.T. 0.00 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	65248		
176	21.0	14.2	21.2	
179	17.6	12.2	18.4	





#72

Carbazole

Concen: 2.44 ng

RT: 17.45 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

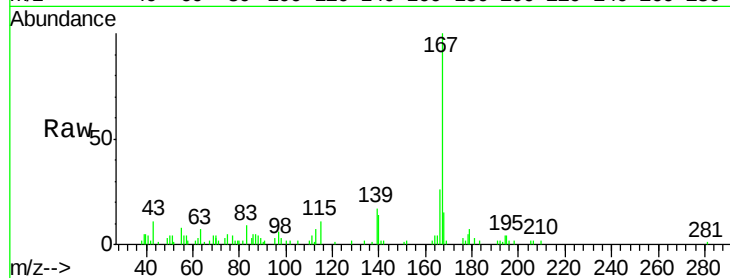
ClientSampled :

SP-5

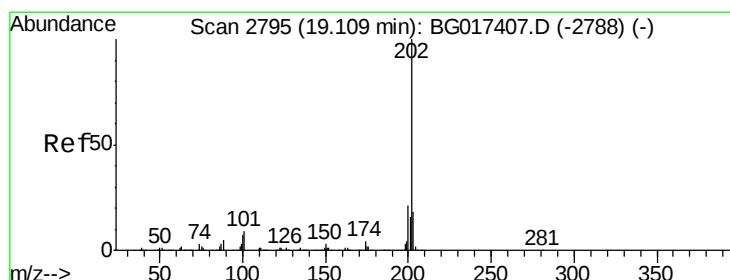
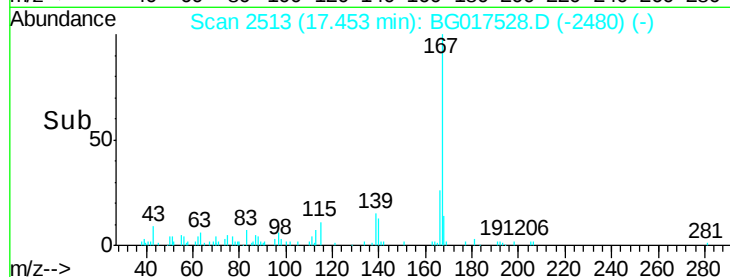
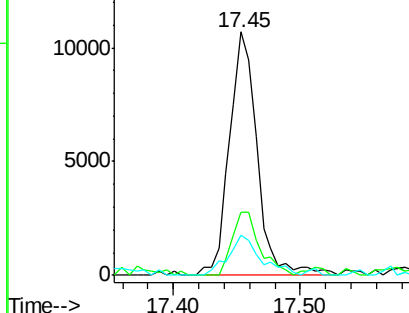
Tgt Ion:	167	Resp:	16168
Ion Ratio	Lower	Upper	
167	100		
166	25.7	17.0	25.4#
139	16.7	11.3	16.9

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



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: 95.30 ng

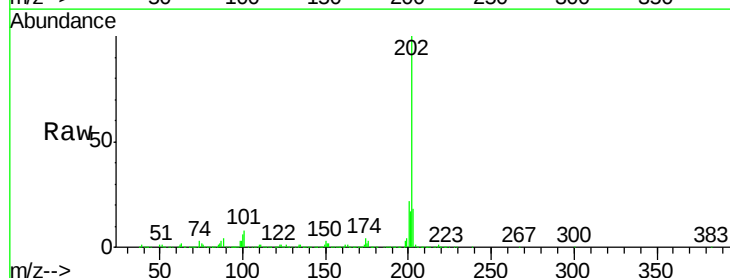
RT: 19.12 min Scan# 2796

Delta R.T. 0.01 min

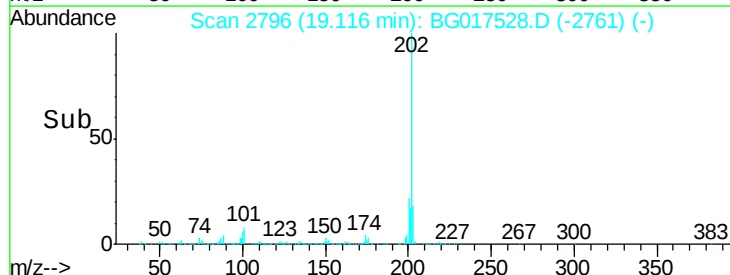
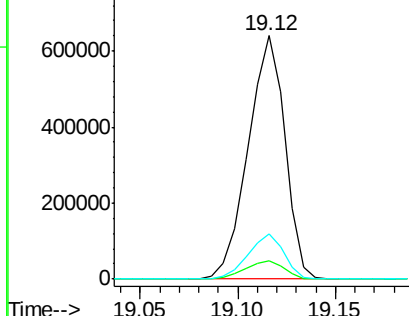
Lab File: BG017528.D

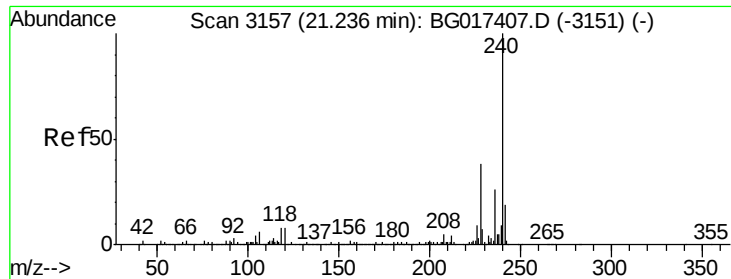
Acq: 7 Jun 2015 11:05

Tgt Ion:	202	Resp:	836185
Ion Ratio	Lower	Upper	
202	100		
101	7.7	0.0	28.8
203	18.4	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: 21.24 min Scan# 3158

Delta R.T. 0.01 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

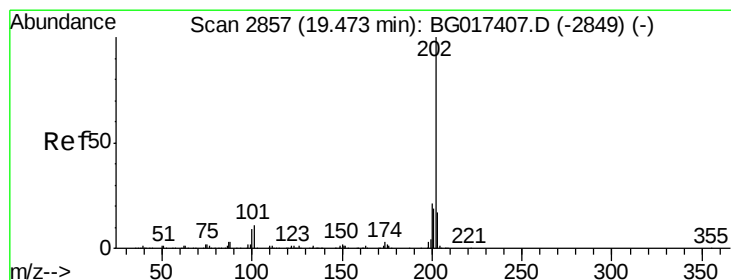
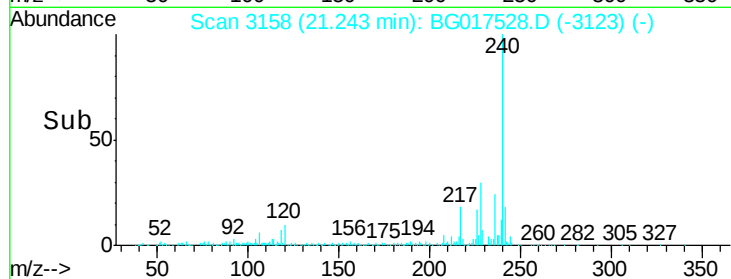
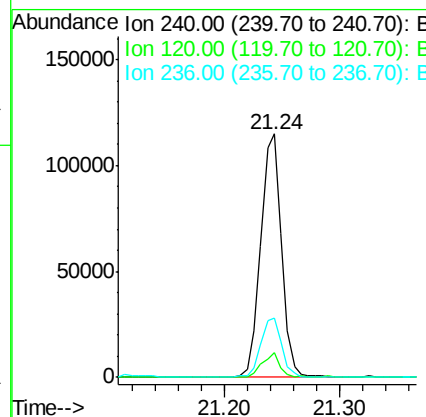
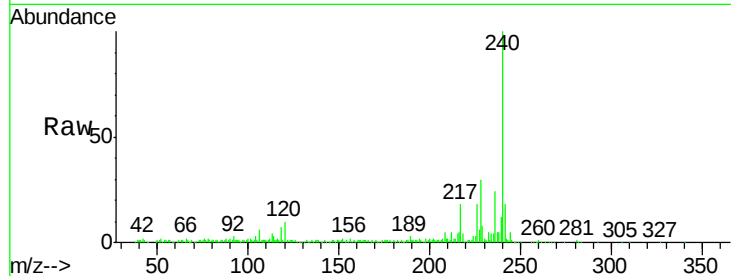
ClientSampleId :

SP-5

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	145191		
120	10.1	6.5	9.7#	
236	24.4	20.8	31.2	

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#77

Pyrene

Concen: 79.76 ng

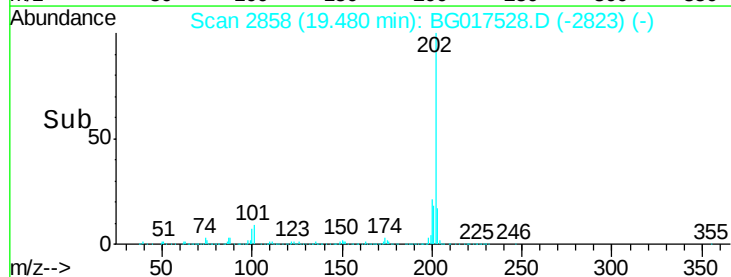
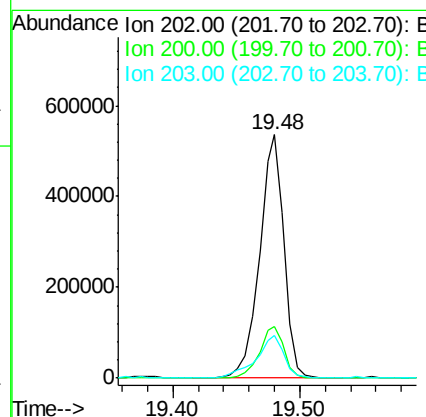
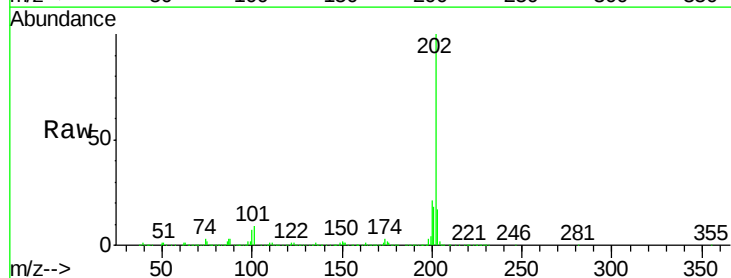
RT: 19.48 min Scan# 2858

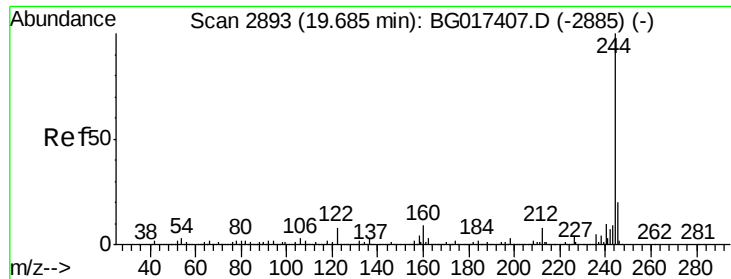
Delta R.T. 0.01 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	713381		
200	21.1	17.0	25.4	
203	17.4	13.9	20.9	





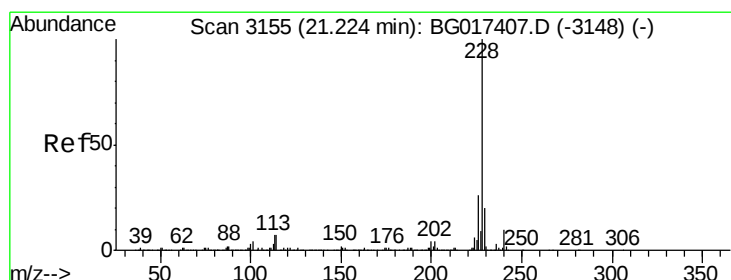
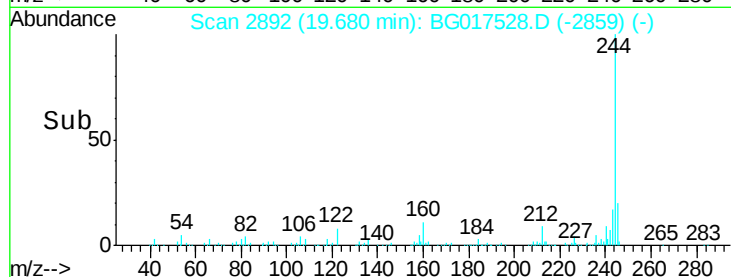
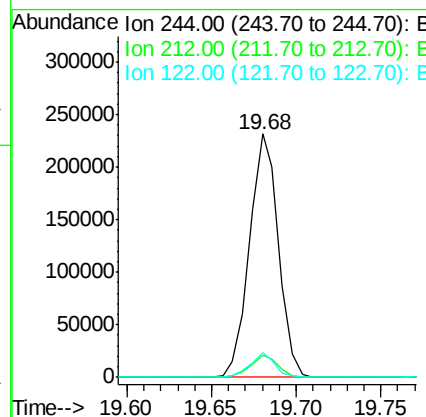
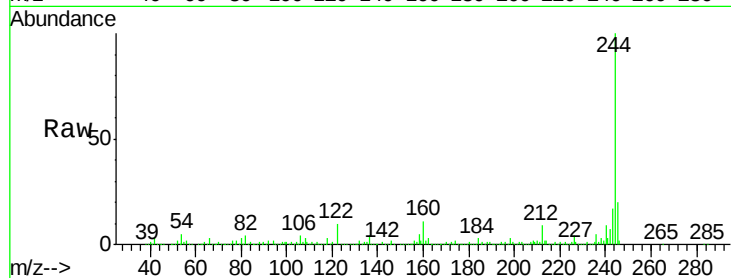
#78
 Terphenyl-d14
 Concen: 39.30 ng
 RT: 19.68 min Scan# 2892
 Delta R.T. -0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Instrument :
 BNA_G
 ClientSampleId :
 SP-5

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.9	6.4	9.6
122	9.9	6.6	10.0

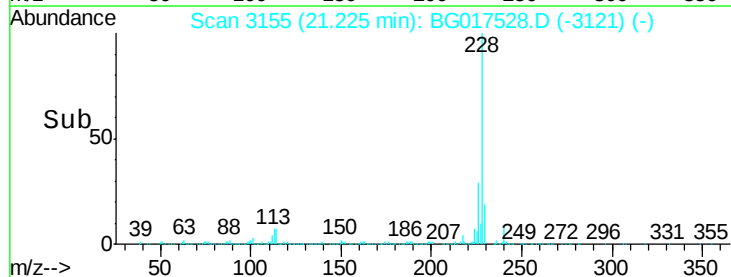
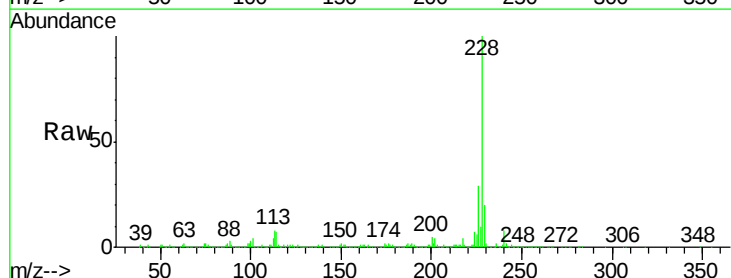
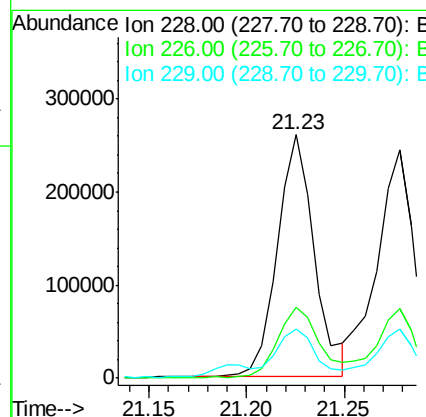
Manual Integrations
 APPROVED

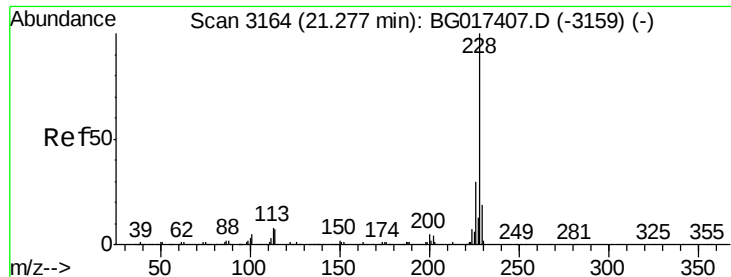
apatel
 6/8/2015 6:00:51 PM



#80
 Benzo(a)anthracene
 Concen: 38.12 ng
 RT: 21.23 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BG017528.D
 Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.3	21.0	31.6
229	20.2	15.7	23.5





#82

Chrysene

Concen: 39.97 ng

RT: 21.28 min Scan# 3164

Delta R.T. 0.00 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Instrument :

BNA_G

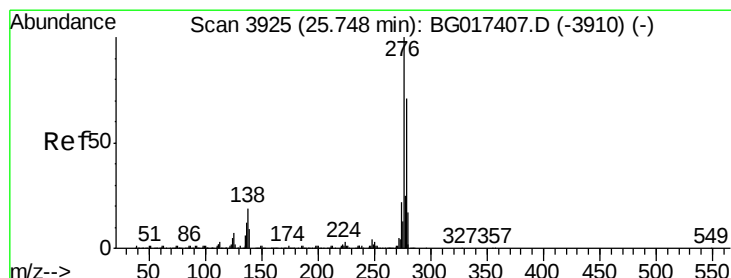
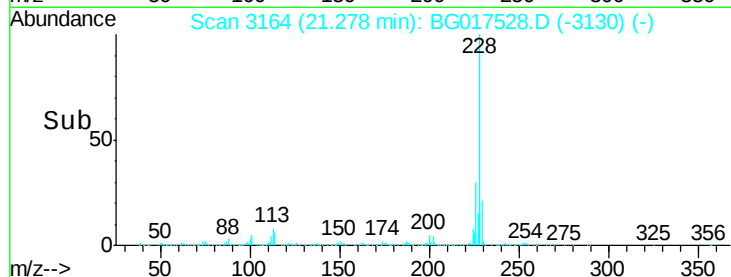
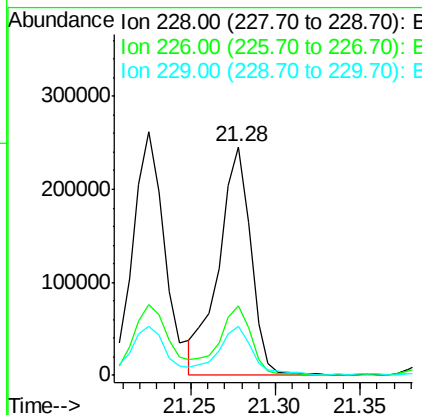
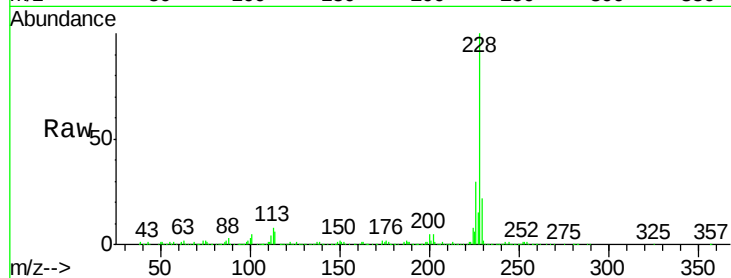
ClientSampleId :

SP-5

Tgt Ion:	228	Resp:	323177
Ion Ratio	Lower	Upper	
228	100		
226	30.4	23.7	35.5
229	21.5	15.2	22.8

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 18.09 ng

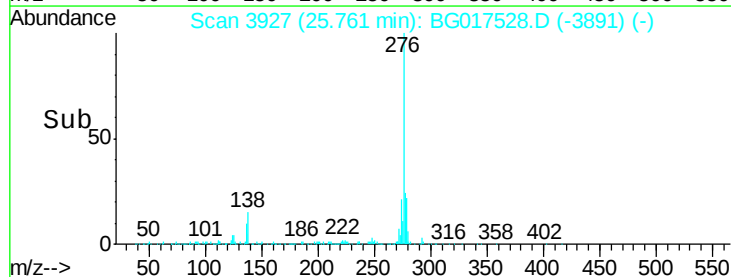
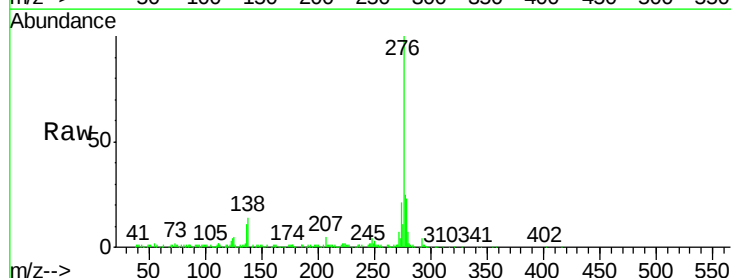
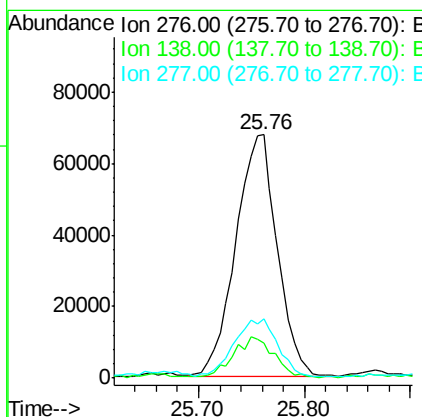
RT: 25.76 min Scan# 3927

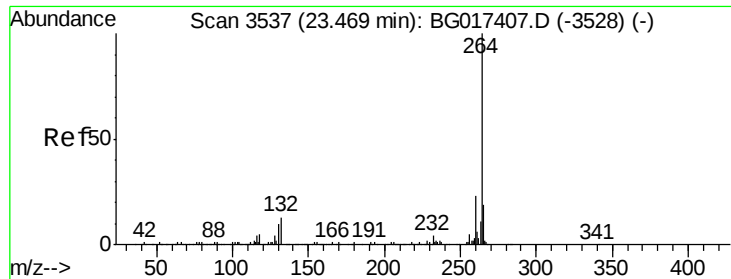
Delta R.T. 0.01 min

Lab File: BG017528.D

Acq: 7 Jun 2015 11:05

Tgt Ion:	276	Resp:	183627
Ion Ratio	Lower	Upper	
276	100		
138	17.1	15.4	23.0
277	25.0	20.5	30.7





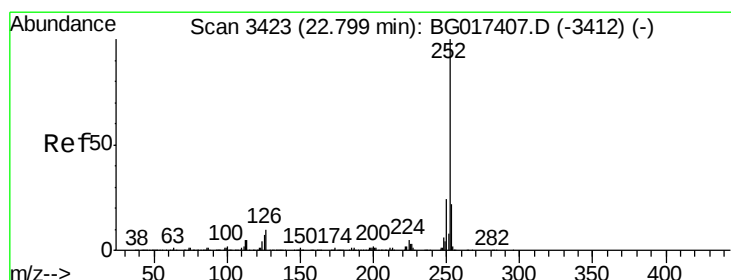
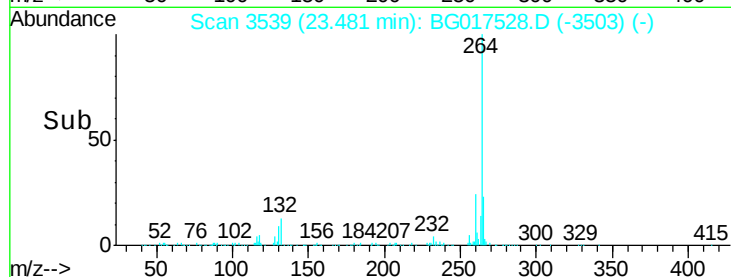
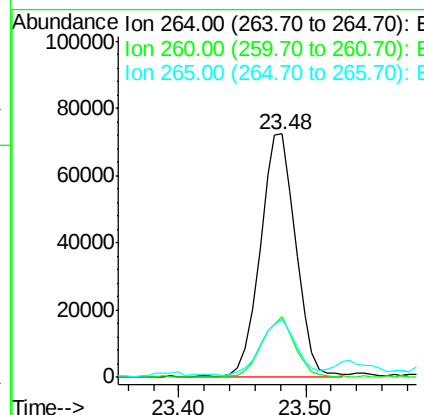
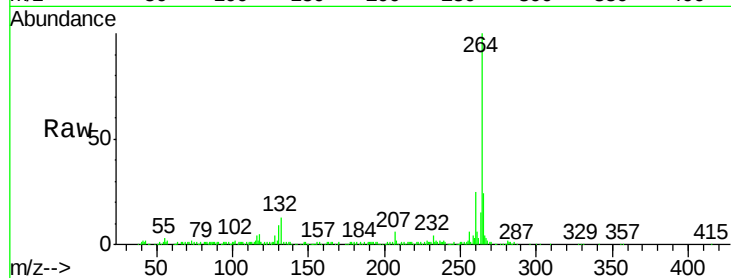
#86
Perylene-d12
Concen: 20.00 ng
RT: 23.48 min Scan# 3539
Delta R.T. 0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Instrument :
BNA_G
ClientSampleId :
SP-5

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.9	18.2	27.4
265	23.8	15.8	23.6

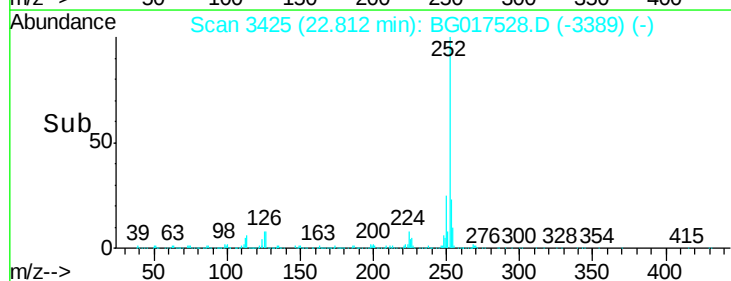
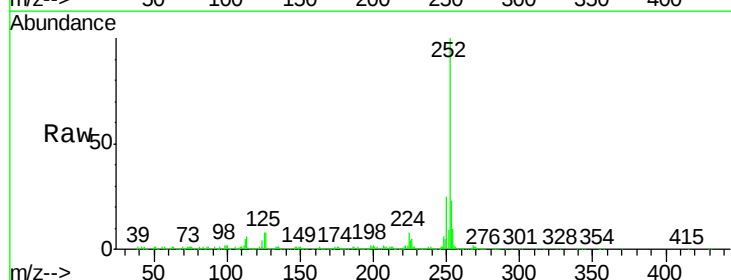
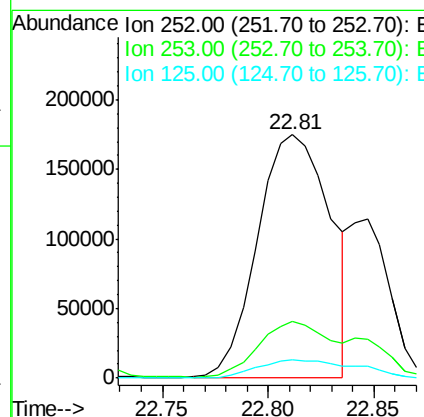
Manual Integrations
APPROVED

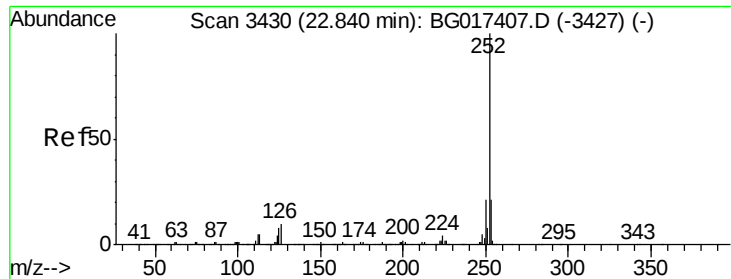
apatel
6/8/2015 6:00:51 PM



#87
Benzo(b)fluoranthene
Concen: 47.44 ng m
RT: 22.81 min Scan# 3425
Delta R.T. 0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.2	17.4	26.2
125	7.8	5.8	8.8





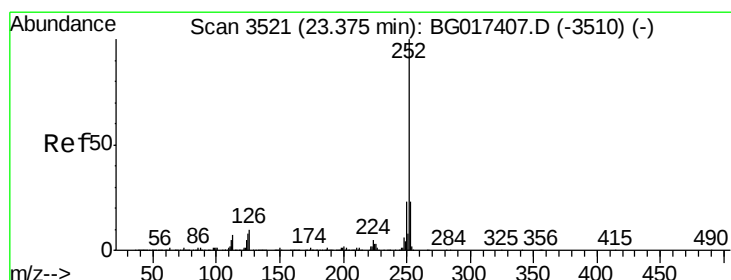
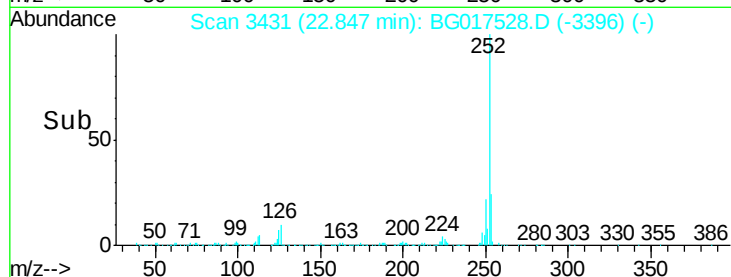
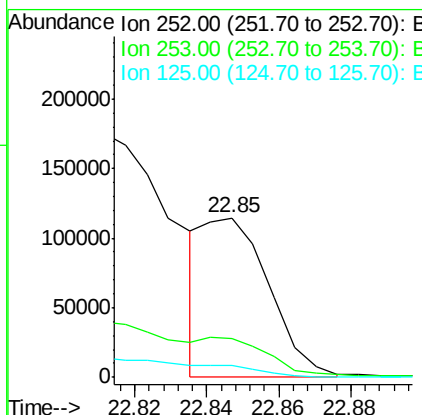
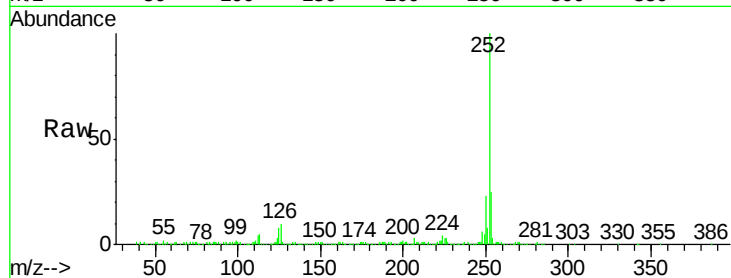
#88
Benzo(k)fluoranthene
Concen: 17.07 ng m
RT: 22.85 min Scan# 3431
Delta R.T. 0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Instrument :
BNA_G
ClientSampleId :
SP-5

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.7	26.5
125	7.8	6.5	9.7

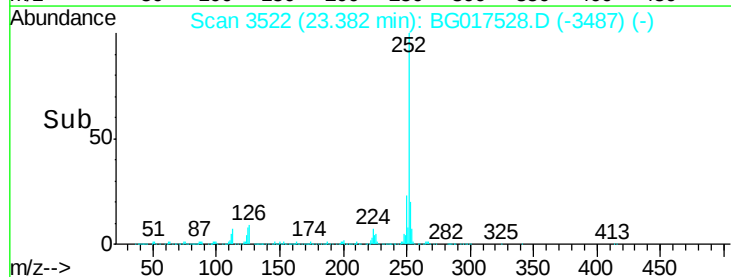
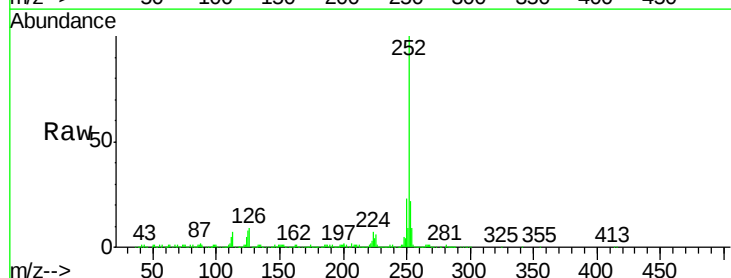
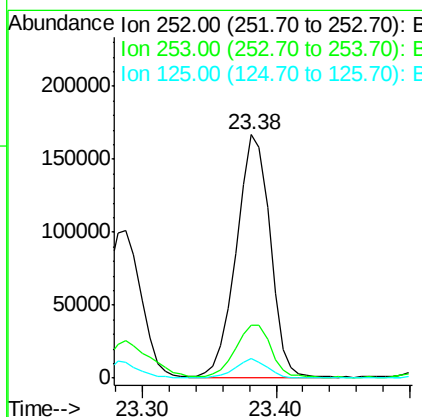
Manual Integrations
APPROVED

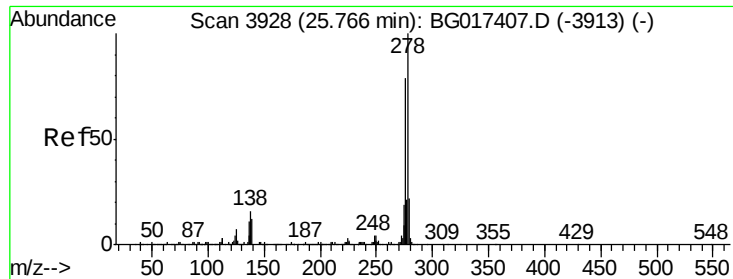
apatel
6/8/2015 6:00:51 PM



#89
Benzo(a)pyrene
Concen: 35.88 ng
RT: 23.38 min Scan# 3522
Delta R.T. 0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.1	27.1
125	8.0	6.5	9.7





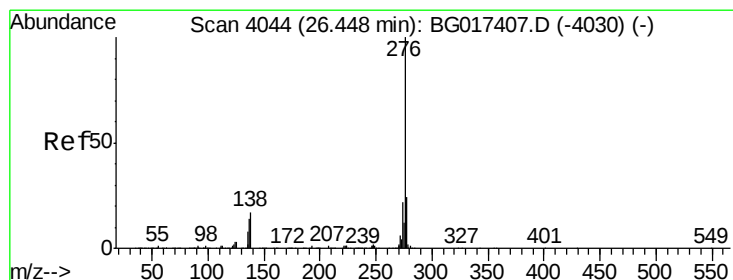
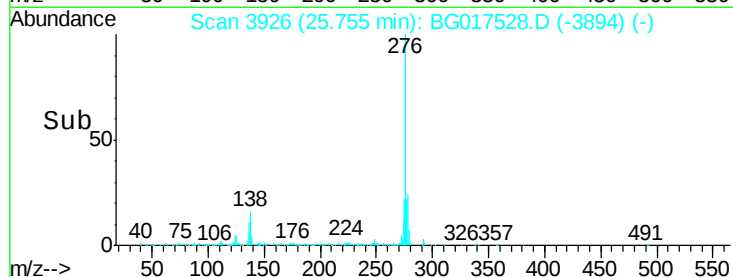
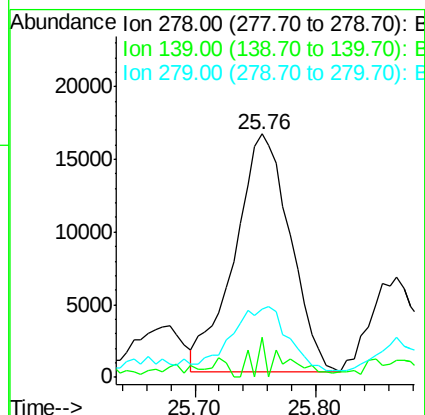
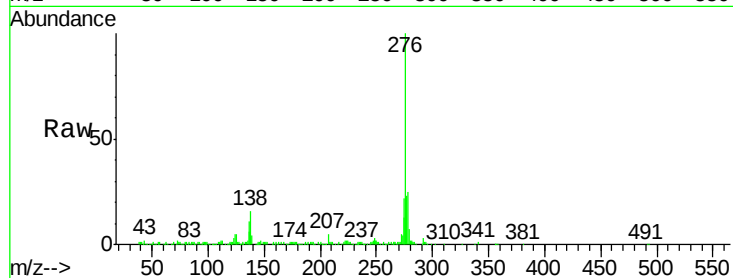
#90
Dibenzo(a,h)anthracene
Concen: 6.16 ng
RT: 25.76 min Scan# 3926
Delta R.T. -0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Instrument :
BNA_G
ClientSampleId :
SP-5

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.3	9.4	14.0#
279	27.9	17.8	26.8#

Manual Integrations
APPROVED

apatel
6/8/2015 6:00:51 PM



#91
Benzo(g,h,i)perylene
Concen: 20.84 ng
RT: 26.46 min Scan# 4046
Delta R.T. 0.01 min
Lab File: BG017528.D
Acq: 7 Jun 2015 11:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.2	28.8
138	15.3	13.5	20.3

