

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\
 Data File : BG021763.D
 Acq On : 19 Apr 2016 20:17
 Operator : UM/SJ
 Sample : H2503-08DL 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-23-20160412DL

Manual Integrations
 APPROVED

Sohil
 4/20/2016 1:38:37 PM

Quant Time: Apr 20 11:16:19 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	32812	20.00	ng	0.00
21) Naphthalene-d8	11.03	136	154753	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	95865	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	202928	20.00	ng	0.00
75) Chrysene-d12	21.83	240	224162	20.00	ng	0.00
86) Perylene-d12	25.17	264	220315	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.76	112	63047	32.00	ng	0.00
7) Phenol-d6	7.36	99	122161	41.51	ng	0.00
23) Nitrobenzene-d5	9.38	82	70435	23.39	ng	0.00
41) 2,4,6-Tribromophenol	16.30	330	53142	51.44	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	189993	29.04	ng	0.00
78) Terphenyl-d14	20.14	244	258352	28.76	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	14.26	163	38740	4.67	ng	98
51) Acenaphthene	14.88	154	14555	2.31	ng	98
54) Dibenzofuran	15.21	168	17854	2.07	ng	94
57) Fluorene	15.86	166	23332	3.03	ng	97
70) Phenanthrene	17.60	178	399341	35.71	ng	98
71) Anthracene	17.69	178	95195	8.38	ng	99
72) Carbazole	17.96	167	38294	3.61	ng	98
73) Di-n-butylphthalate	18.50	149	30657	2.27	ng	98
74) Fluoranthene	19.60	202	588900	44.10	ng	99
77) Pyrene	19.95	202	530794	41.07	ng	99
79) Butylbenzylphthalate	20.82	149	114330	19.06	ng	96
80) Benzo(a)anthracene	21.81	228	309774	24.01	ng	96
82) Chrysene	21.88	228	271870	21.94	ng	97
83) Bis(2-ethylhexyl)phthalate	21.69	149	67129m	7.65	ng	
85) Indeno(1,2,3-cd)pyrene	28.99	276	167760	11.39	ng	95
87) Benzo(b)fluoranthene	24.11	252	336203	26.30	ng	97
88) Benzo(k)fluoranthene	24.17	252	109701m	8.78	ng	
89) Benzo(a)pyrene	25.01	252	252487	20.38	ng	96
90) Dibenzo(a,h)anthracene	29.03	278	42163	3.40	ng	# 90
91) Benzo(a,h,i)perylene	30.18	276	157206	12.90	ng	97

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

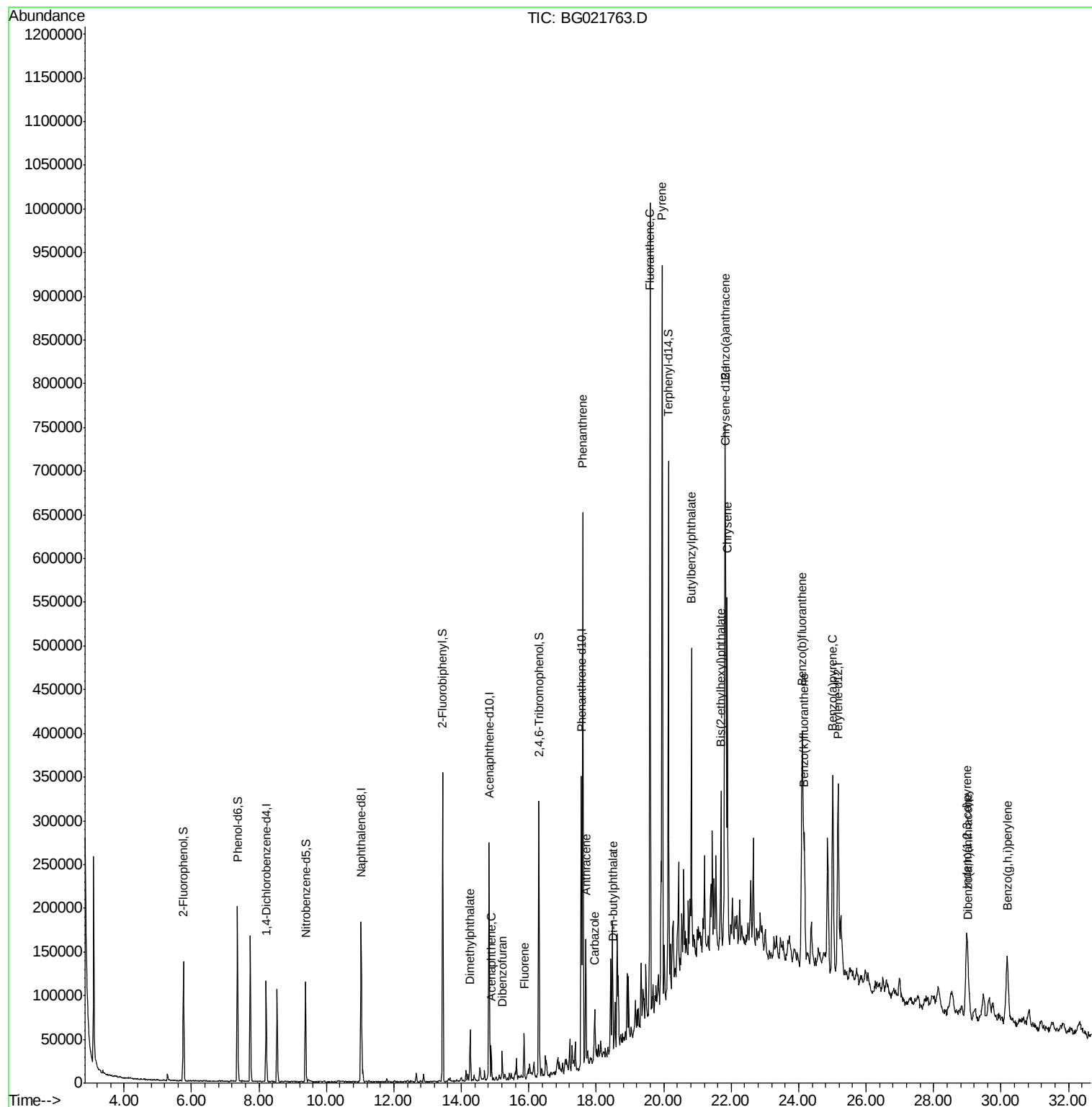
Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\
Data File : BG021763.D
Acq On : 19 Apr 2016 20:17
Operator : UM/SJ
Sample : H2503-08DL 2X
Misc :
ALS Vial : 3 Sample Multiplier: 1

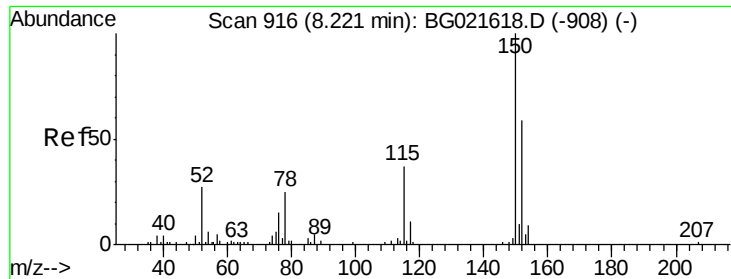
Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM

Quant Time: Apr 20 11:16:19 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





#1

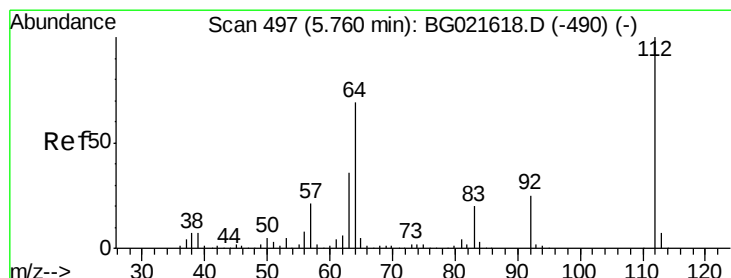
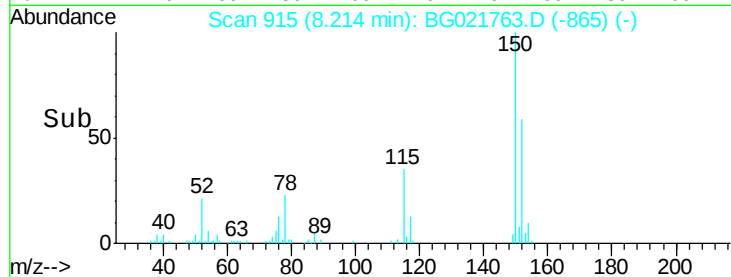
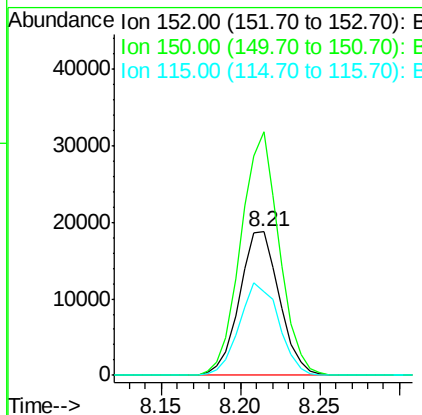
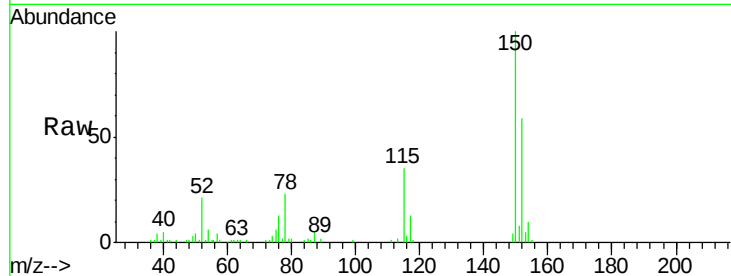
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.21 min Scan# 915
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	169.7	130.1	195.1
115	58.6	62.2	93.2

Manual Integrations
APPROVED

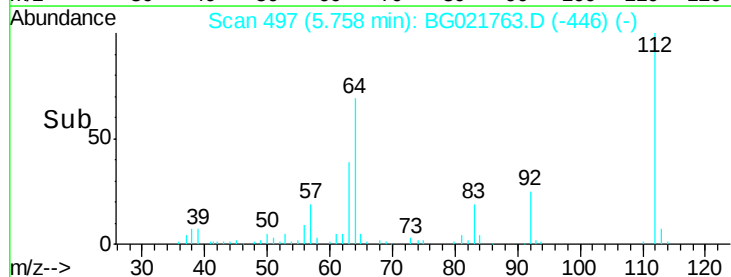
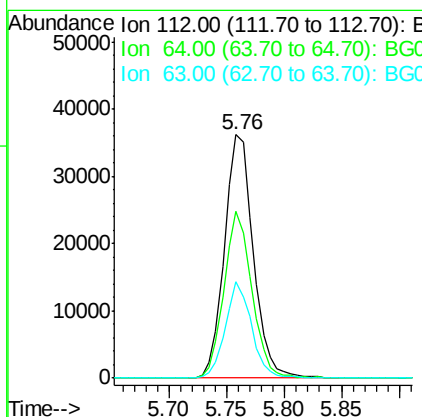
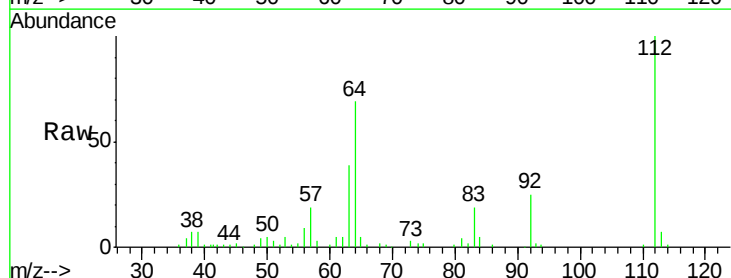
Sohil
4/20/2016 1:38:37 PM

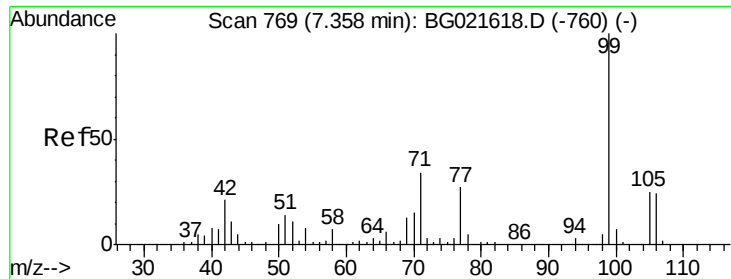


#5

2-Fluorophenol
Concen: 32.00 ng
RT: 5.76 min Scan# 497
Delta R.T. -0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.5	51.1	76.7
63	39.4	24.6	37.0





#7

Phenol-d6

Concen: 41.51 ng

RT: 7.36 min Scan# 770

Delta R.T. 0.00 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Instrument :

BNA_G

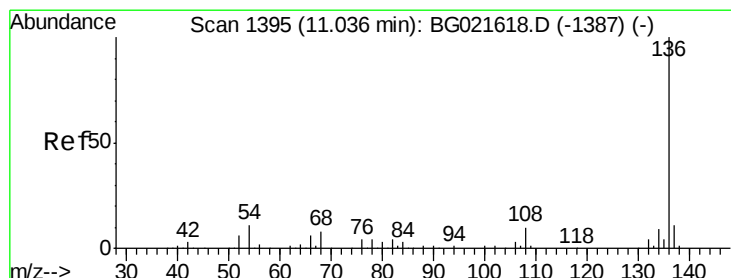
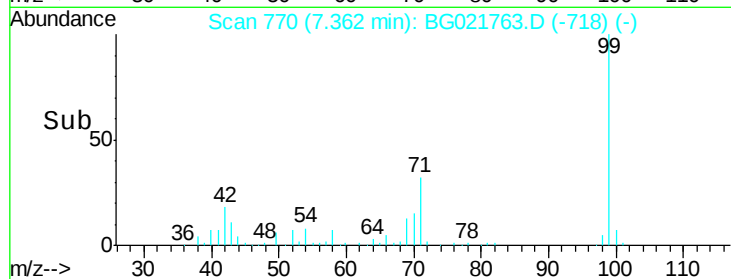
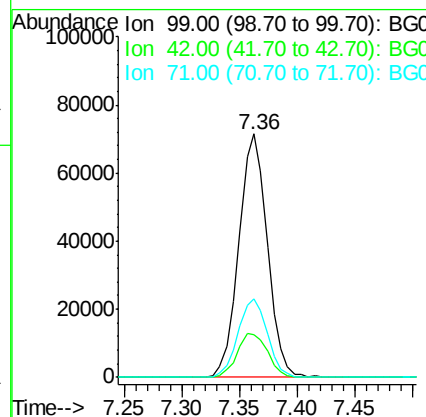
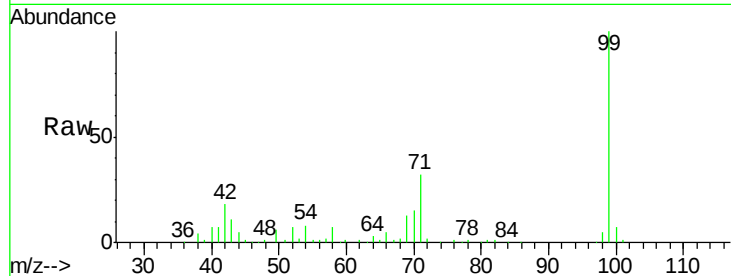
ClientSampleId :

POST-EX-23-20160412DL

Tot Ion:	99	Resp:	122161
Ion Ratio	Lower	Upper	
99	100		
42	17.6	16.4	24.6
71	32.4	25.0	37.4

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM



#21

Naphthalene-d8

Concen: 20.00 ng

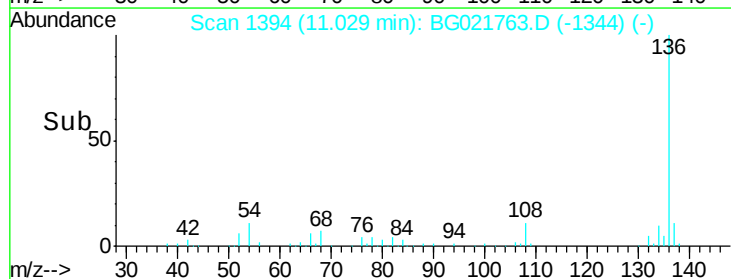
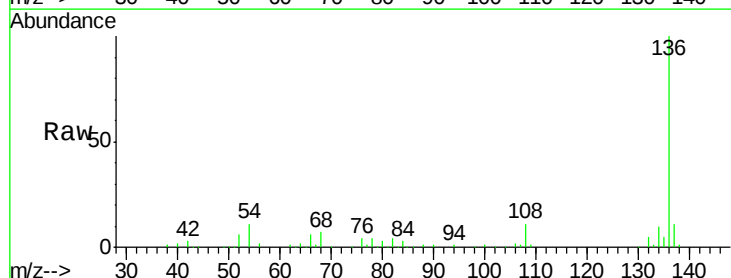
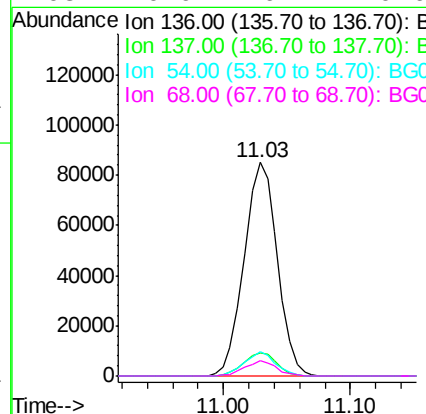
RT: 11.03 min Scan# 1394

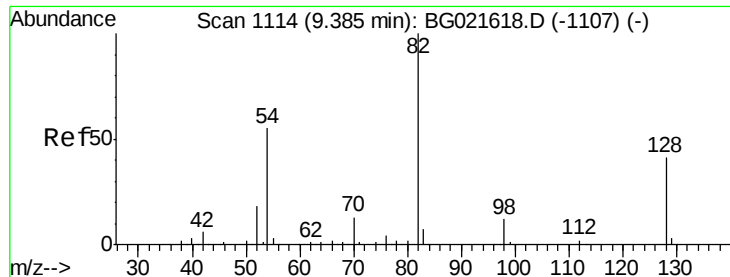
Delta R.T. -0.01 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Tgt Ion:	136	Resp:	154753
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.0	13.4
54	11.3	9.6	14.4
68	6.9	6.4	9.6





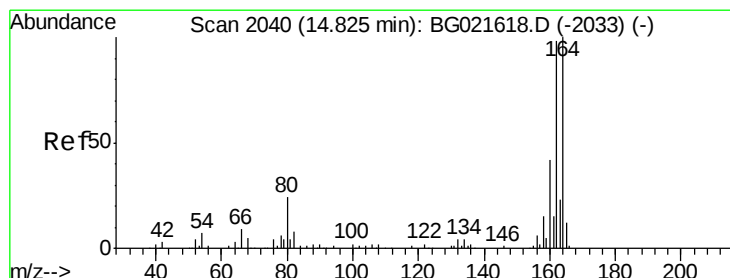
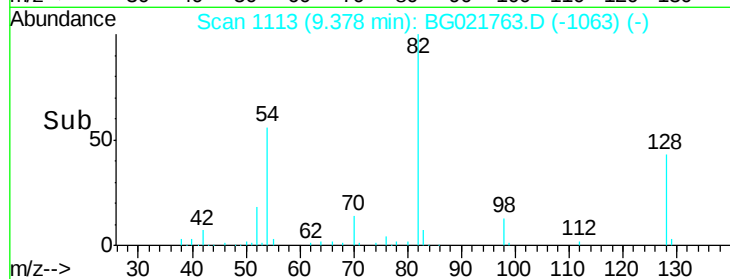
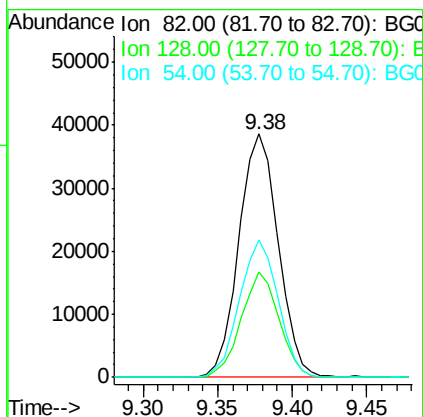
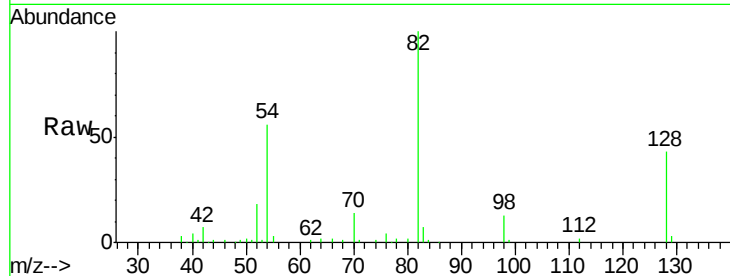
#23
Nitrobenzene-d5
Concen: 23.39 ng
RT: 9.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleID :
POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.4	50.0
54	56.3	46.1	69.1

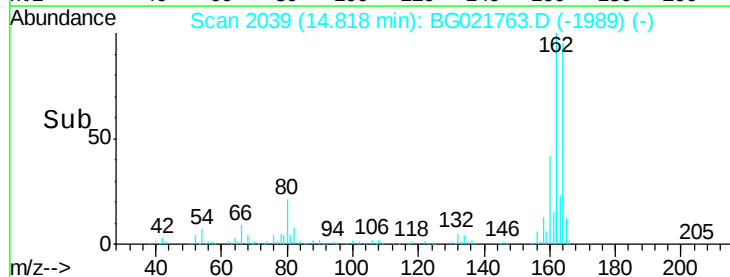
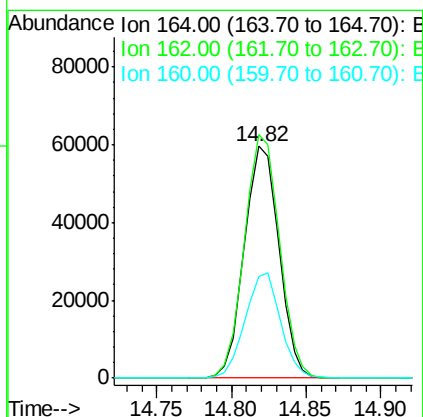
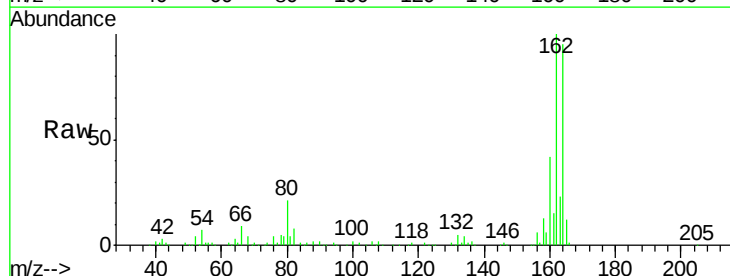
Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.82 min Scan# 2039
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	78.0	117.0
160	43.6	32.9	49.3





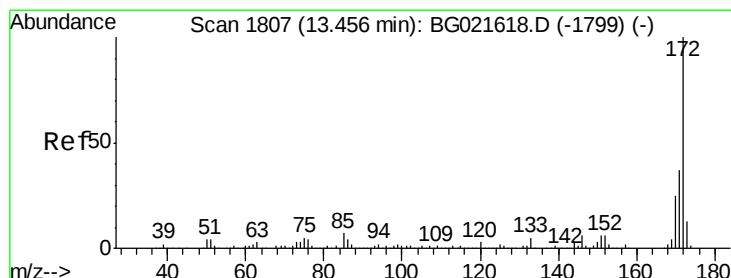
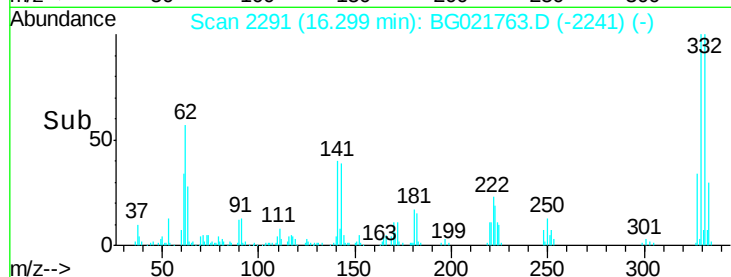
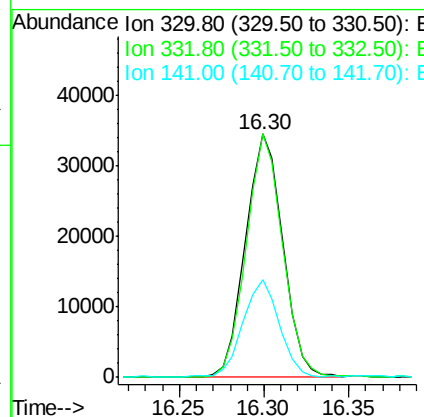
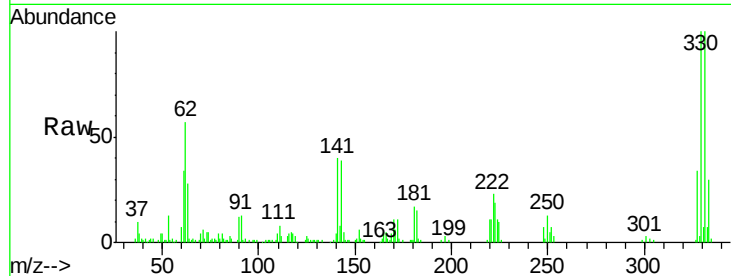
#41
 2,4,6-Tribromophenol
 Concen: 51.44 ng
 RT: 16.30 min Scan# 2291
 Delta R.T. -0.01 min
 Lab File: BG021763.D
 Acq: 19 Apr 2016 20:17

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.4	78.0	117.0
141	39.3	33.8	50.8

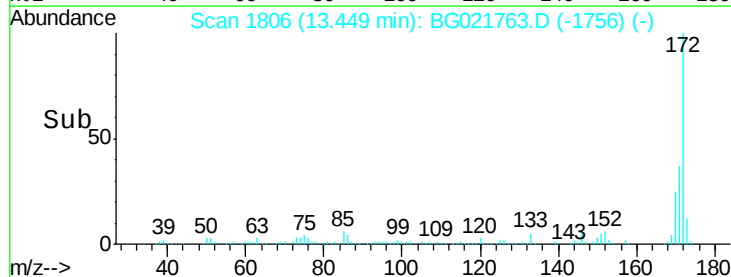
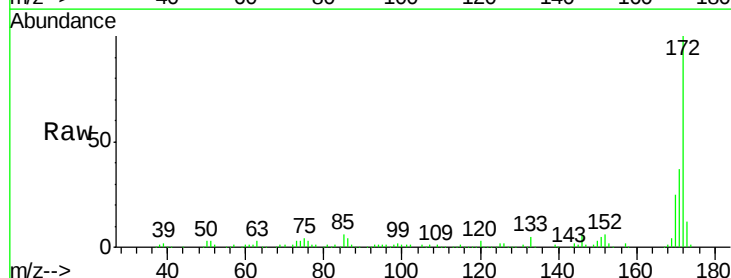
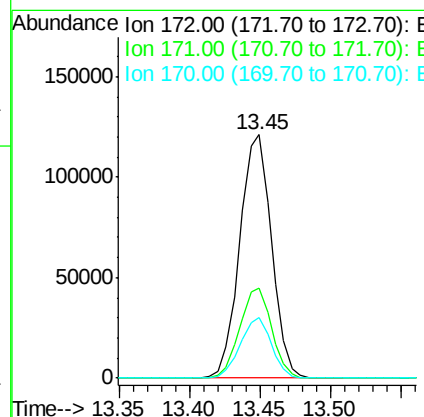
Manual Integrations
 APPROVED

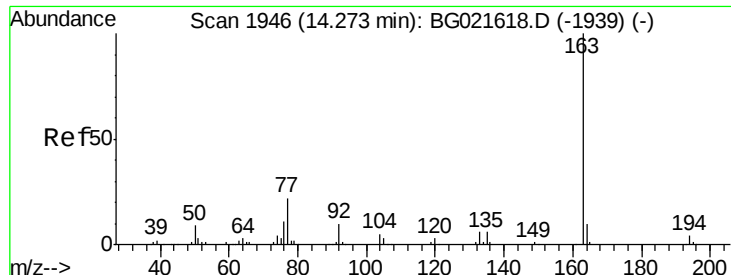
Sohil
 4/20/2016 1:38:37 PM



#44
 2-Fluorobiphenyl
 Concen: 29.04 ng
 RT: 13.45 min Scan# 1806
 Delta R.T. -0.01 min
 Lab File: BG021763.D
 Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	27.8	41.6
170	25.0	19.6	29.4





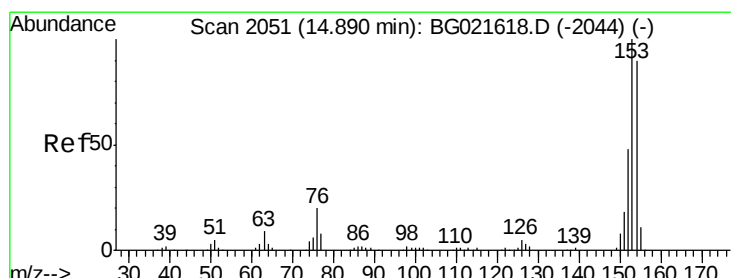
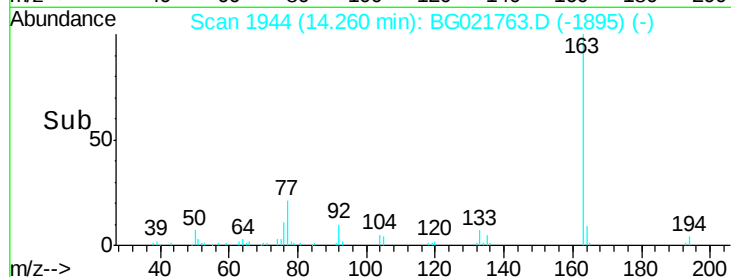
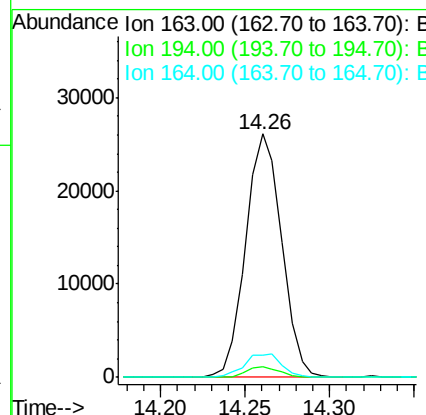
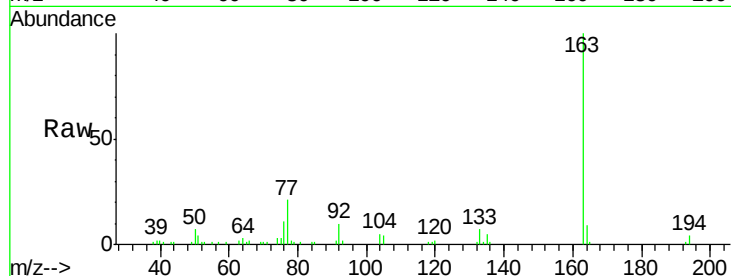
#49
Dimethylphthalate
Concen: 4.67 ng
RT: 14.26 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	38740		
194	4.5		3.0	4.6
164	9.2		8.1	12.1

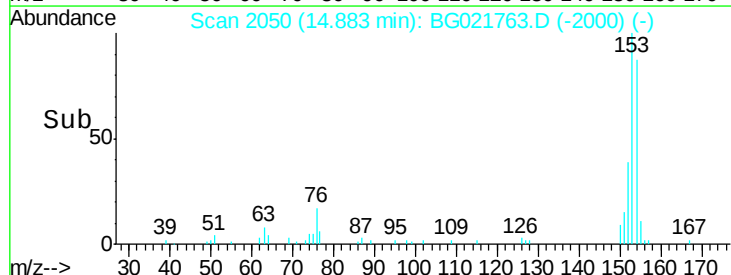
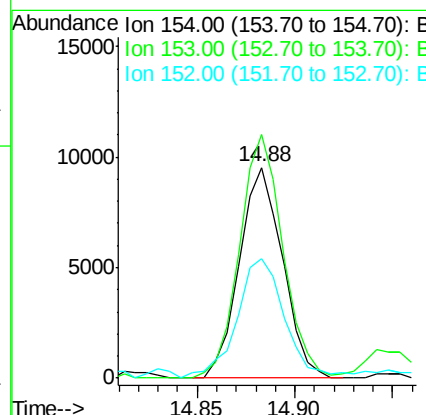
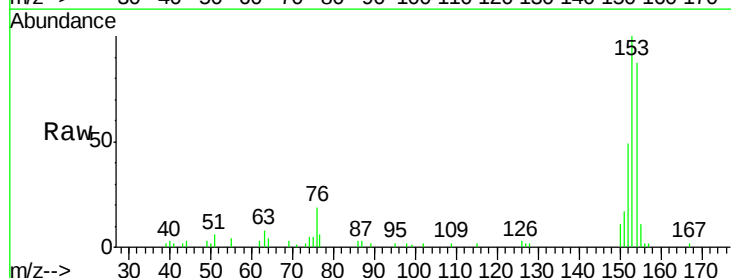
Manual Integrations
APPROVED

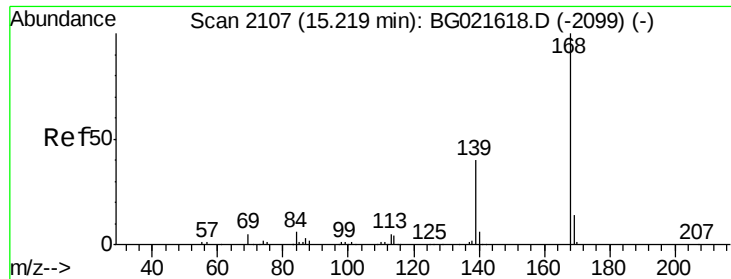
Sohil
4/20/2016 1:38:37 PM



#51
Acenaphthene
Concen: 2.31 ng
RT: 14.88 min Scan# 2050
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	14555		
153	115.4		91.9	137.9
152	56.8		42.0	63.0





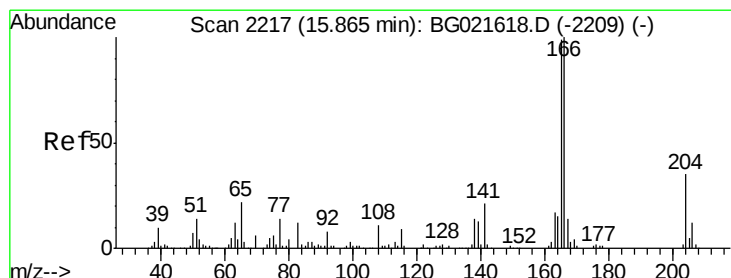
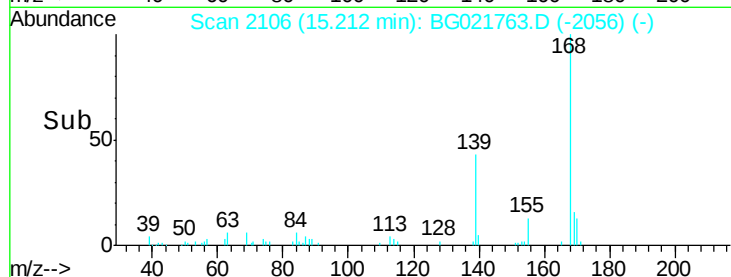
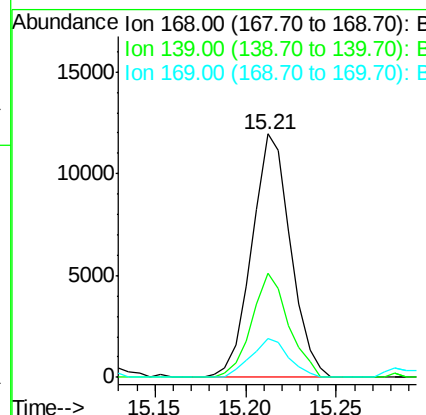
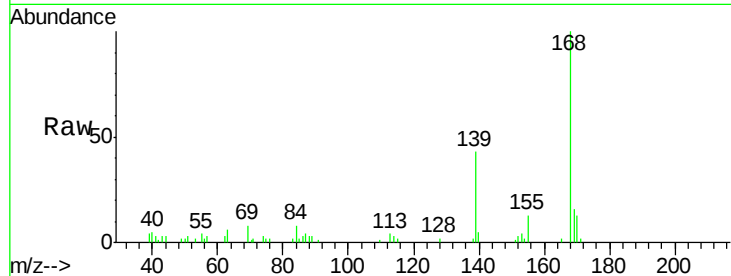
#54
Dibenzenofuran
Concen: 2.07 ng
RT: 15.21 min Scan# 2106
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.5	31.1	46.7
169	16.0	11.0	16.6

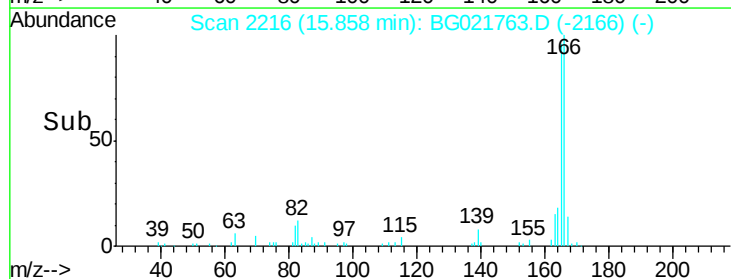
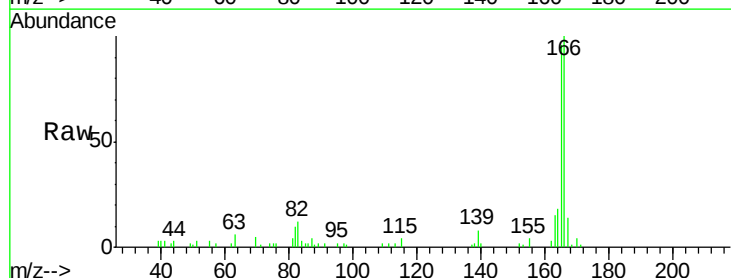
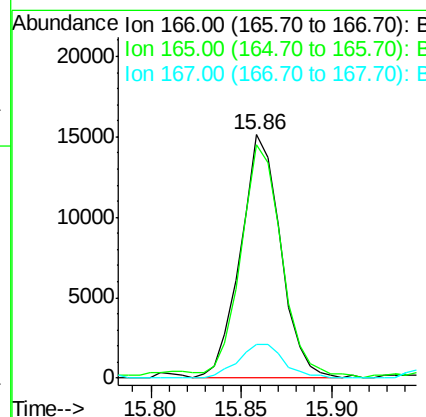
Manual Integrations
APPROVED

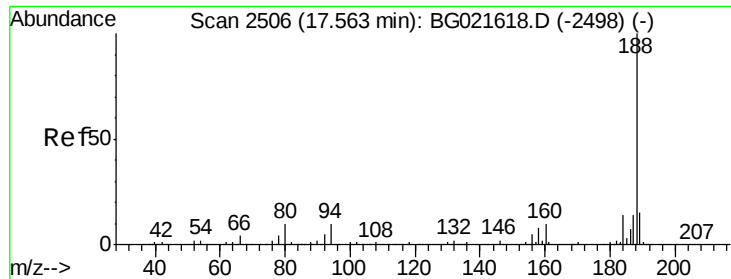
Sohil
4/20/2016 1:38:37 PM



#57
Fluorene
Concen: 3.03 ng
RT: 15.86 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.1	79.0	118.4
167	14.1	10.7	16.1





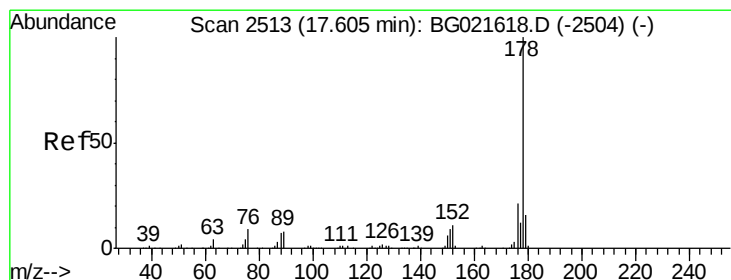
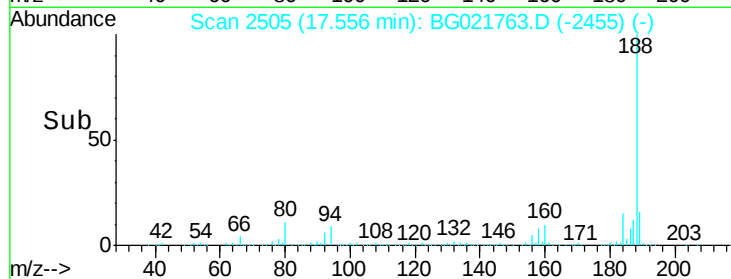
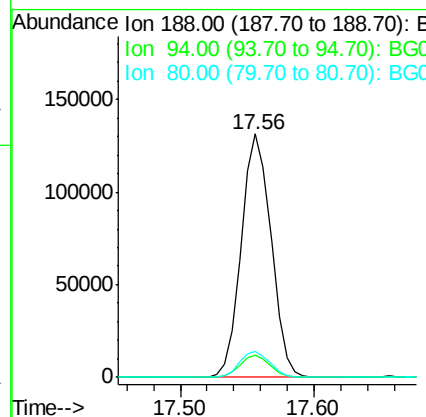
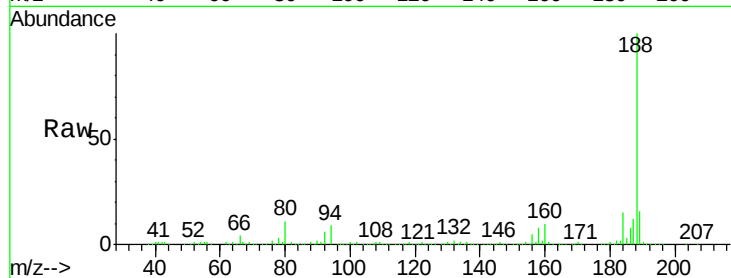
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.56 min Scan# 2505
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.0	7.5	11.3
80	10.9	8.6	13.0

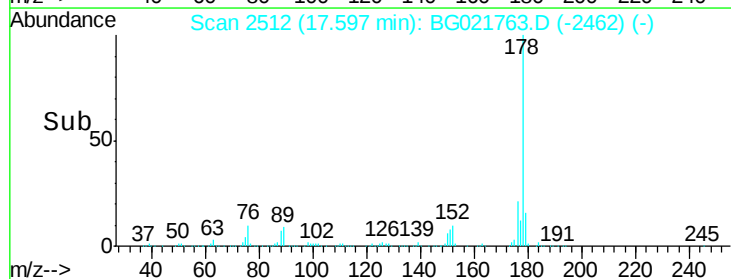
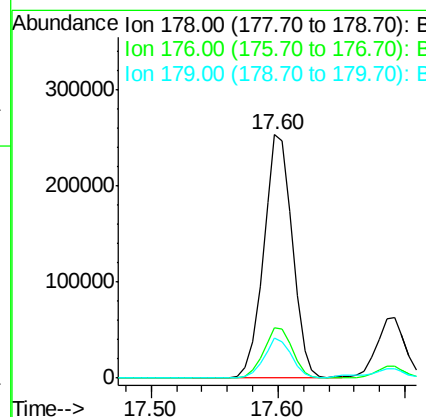
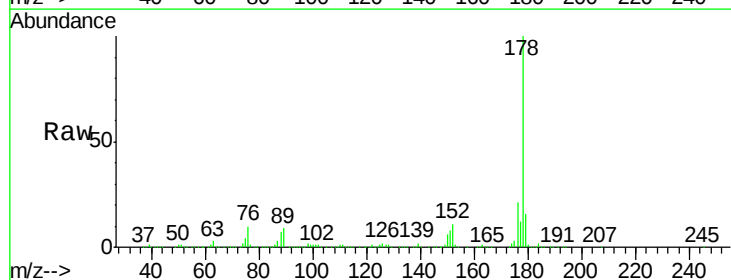
Manual Integrations
APPROVED

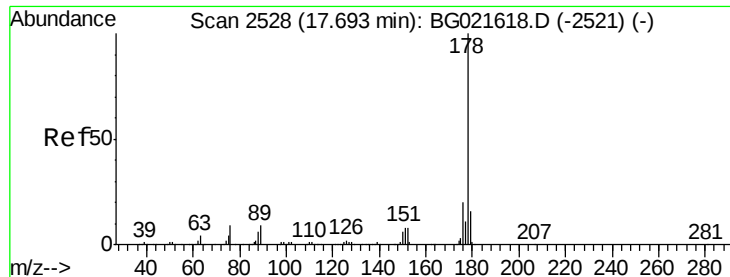
Sohil
4/20/2016 1:38:37 PM



#70
Phenanthrene
Concen: 35.71 ng
RT: 17.60 min Scan# 2512
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.8	16.2	24.4
179	16.3	12.0	18.0





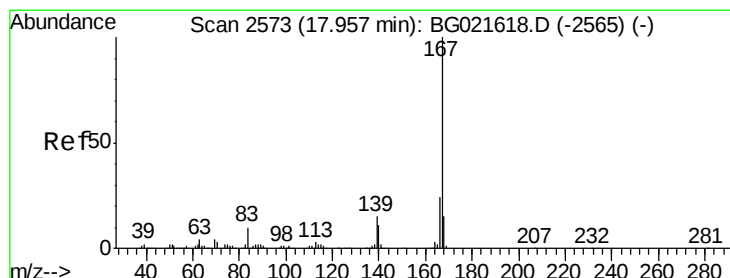
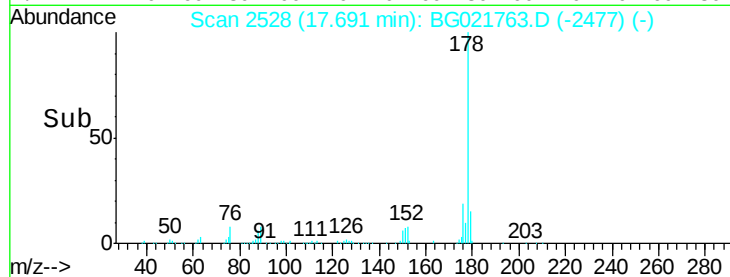
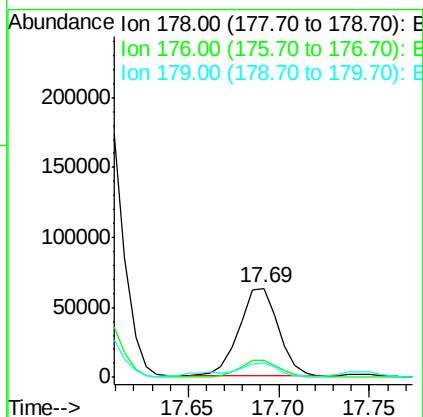
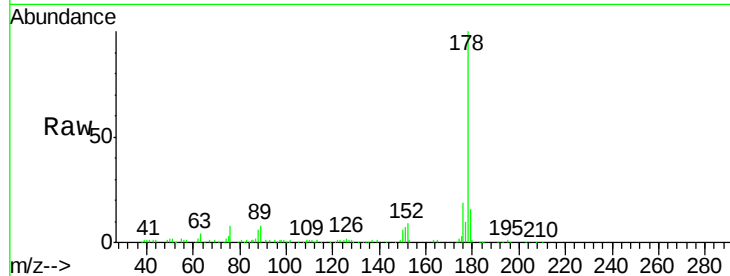
#71
 Anthracene
 Concen: 8.38 ng
 RT: 17.69 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: BG021763.D
 Acq: 19 Apr 2016 20:17

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.0	22.4
179	15.7	12.2	18.4

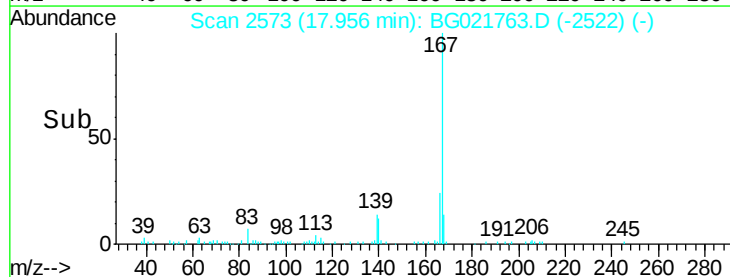
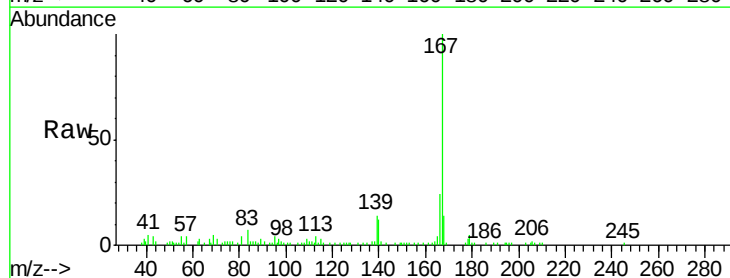
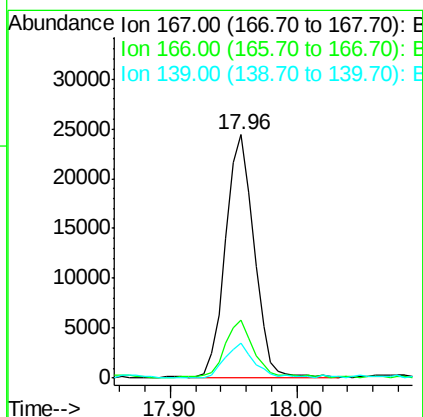
Manual Integrations
 APPROVED

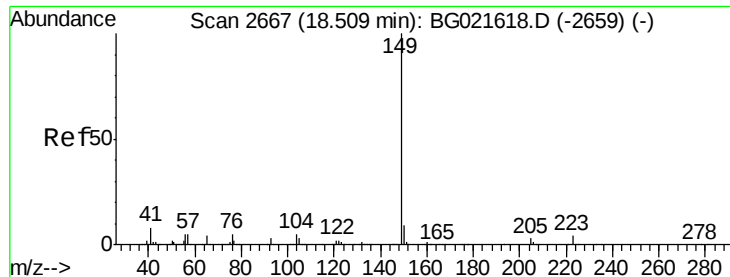
Sohil
 4/20/2016 1:38:37 PM



#72
 Carbazole
 Concen: 3.61 ng
 RT: 17.96 min Scan# 2573
 Delta R.T. -0.00 min
 Lab File: BG021763.D
 Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.0	18.6	27.8
139	14.2	10.6	15.8





#73

Di-n-butylphthalate

Concen: 2.27 ng

RT: 18.50 min Scan# 2665

Delta R.T. -0.01 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Instrument :

BNA_G

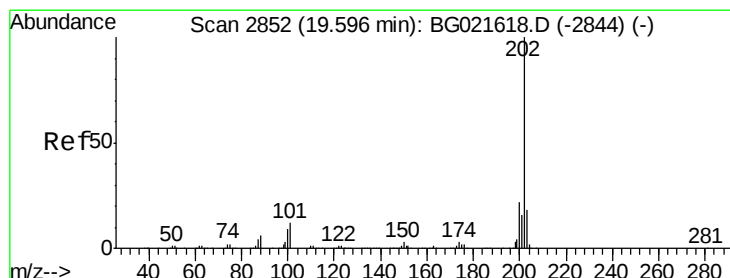
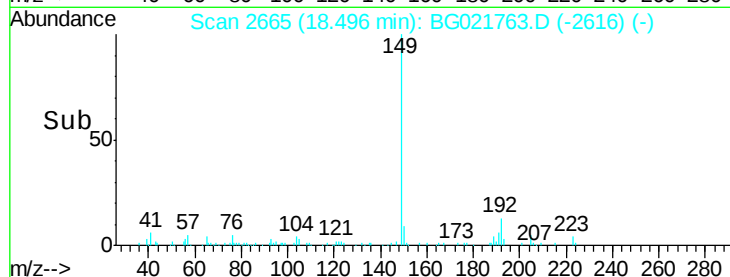
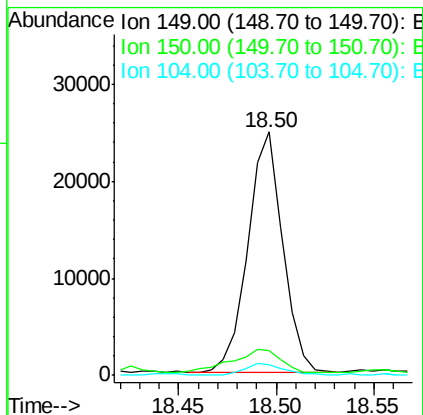
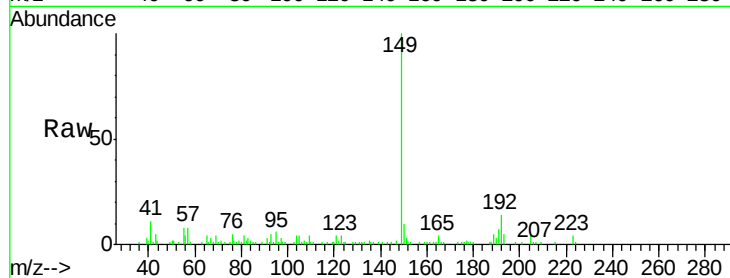
ClientSampleId :

POST-EX-23-20160412DL

Tot Ion:	149	Resp:	30657
Ion Ratio	Lower	Upper	
149	100		
150	10.1	7.4	11.0
104	4.1	4.0	6.0

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM



#74

Fluoranthene

Concen: 44.10 ng

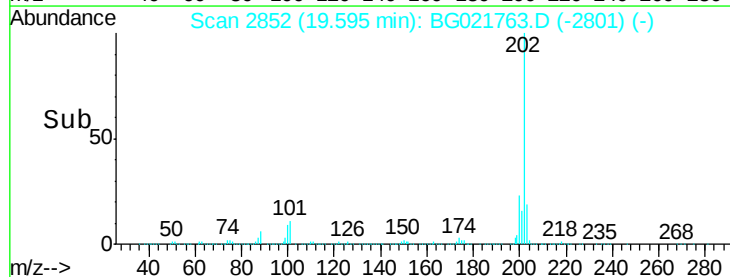
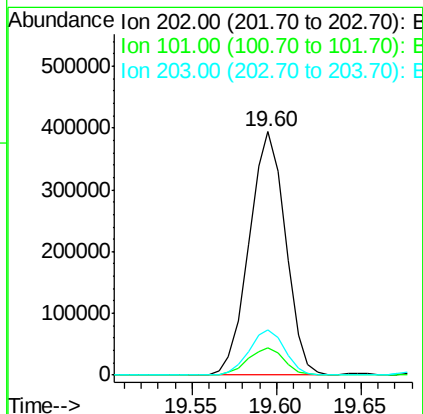
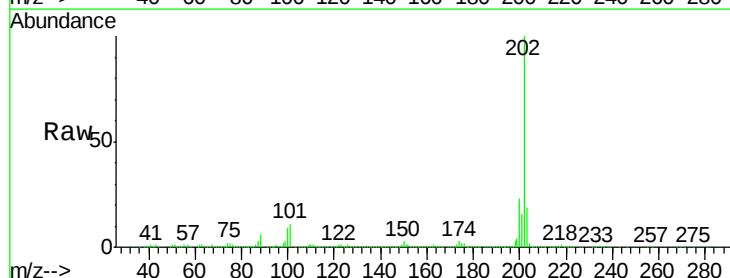
RT: 19.60 min Scan# 2852

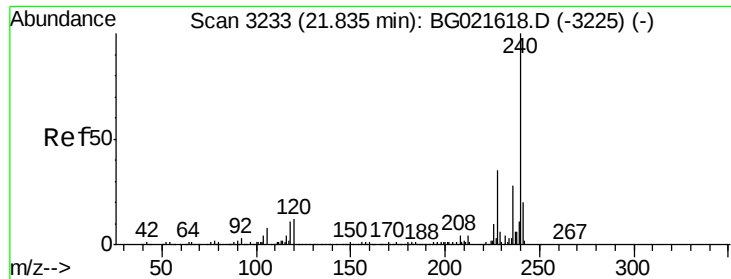
Delta R.T. -0.00 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Tgt Ion:	202	Resp:	588900
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	31.0
203	18.8	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: BG021763.D

Acq: 19 Apr 2016 20:17

Instrument :

BNA_G

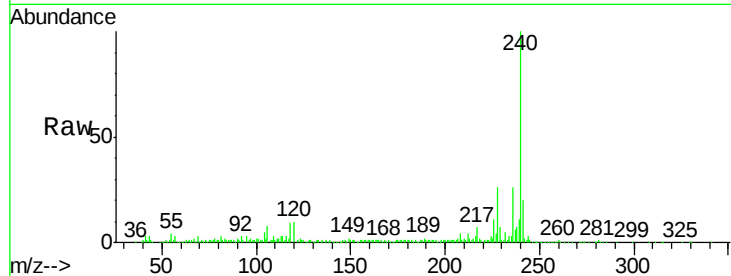
ClientSampleId :

POST-EX-23-20160412DL

Tot Ion:	240	Resp:	224162
Ion Ratio	Lower	Upper	
240	100		
120	10.0	8.4	12.6
236	26.4	19.6	29.4

Manual Integrations
APPROVED

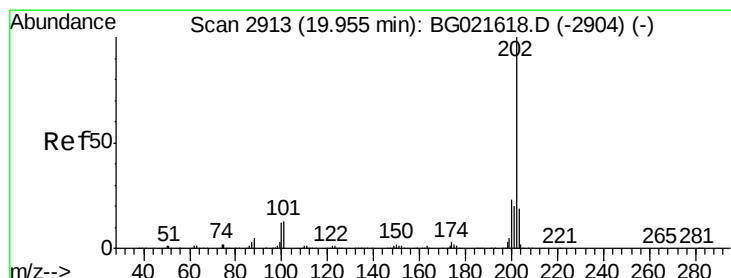
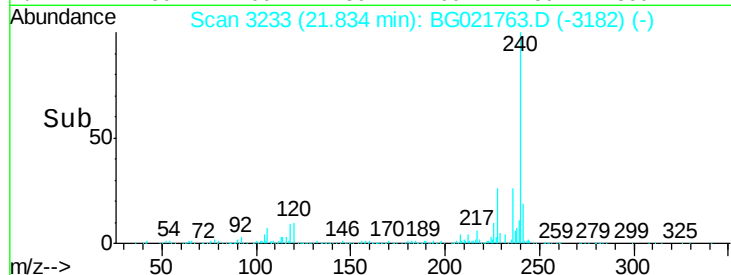
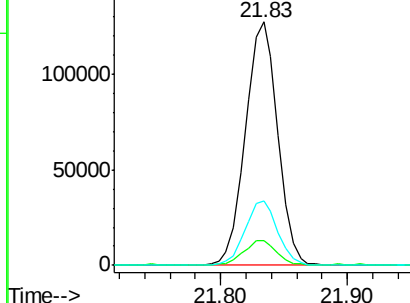
Sohil
4/20/2016 1:38:37 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 41.07 ng

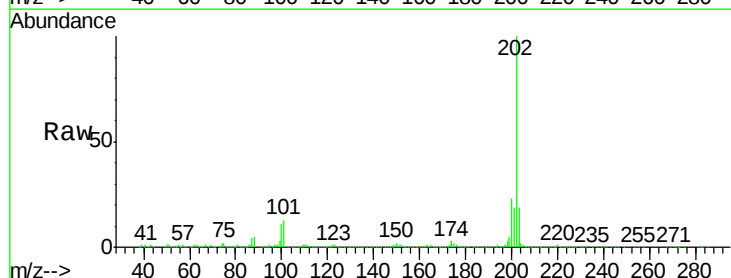
RT: 19.95 min Scan# 2913

Delta R.T. -0.00 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

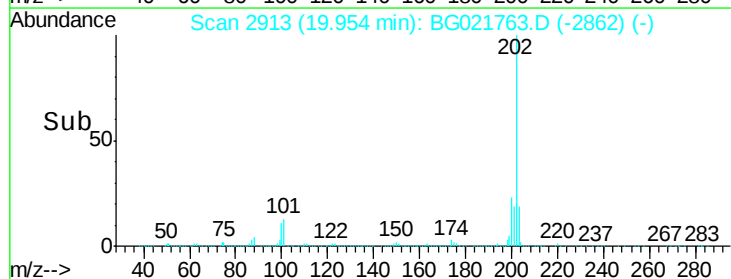
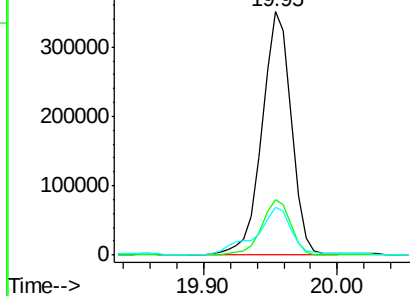
Tgt Ion:	202	Resp:	530794
Ion Ratio	Lower	Upper	
202	100		
200	22.9	18.2	27.2
203	19.4	15.0	22.4

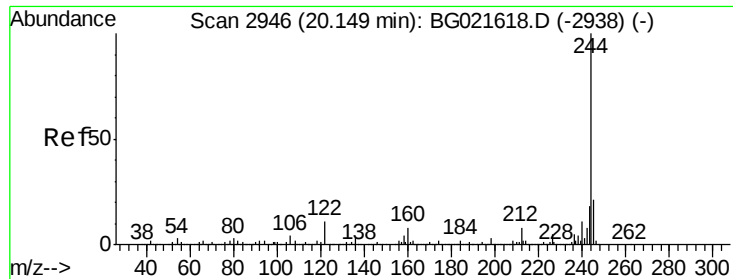


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 28.76 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Instrument :

BNA_G

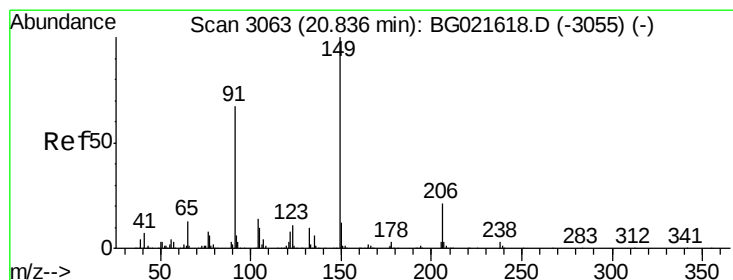
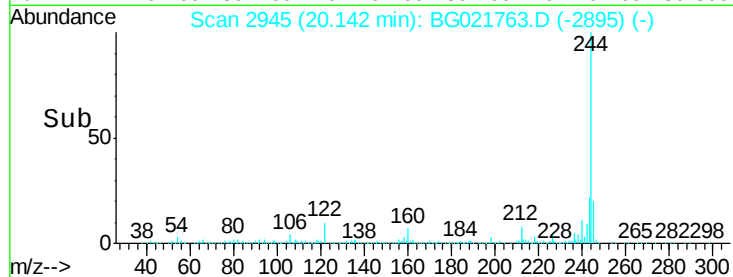
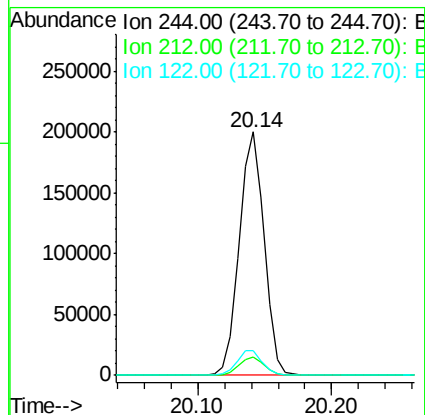
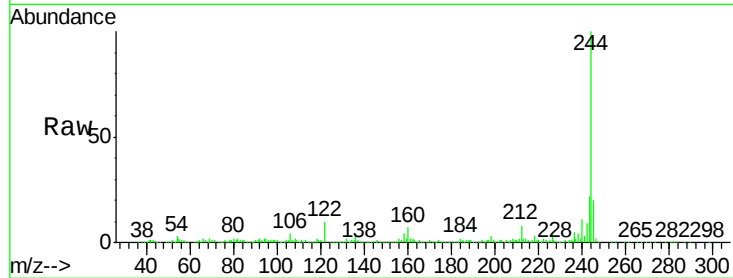
ClientSampleId :

POST-EX-23-20160412DL

Tot Ion:	244	Resp:	258352
Ion Ratio	Lower	Upper	
244	100		
212	7.7	6.5	9.7
122	9.9	8.6	12.8

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM



#79

Butylbenzylphthalate

Concen: 19.06 ng

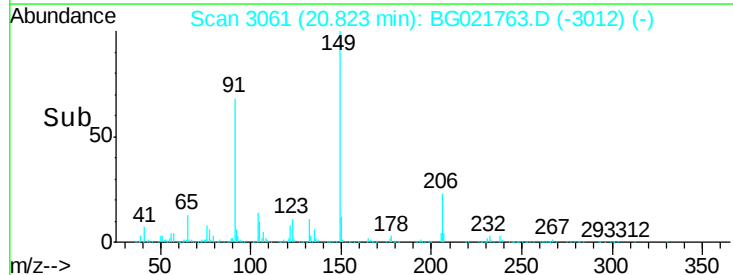
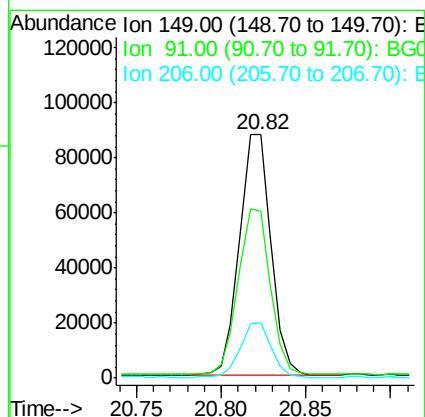
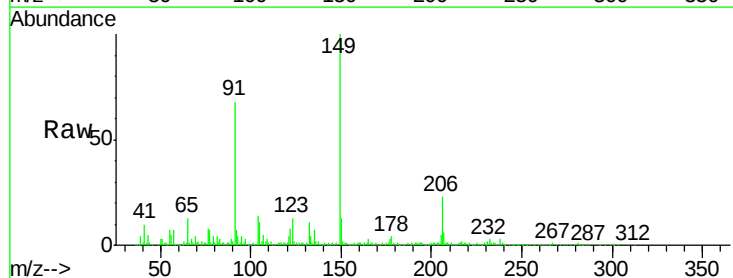
RT: 20.82 min Scan# 3061

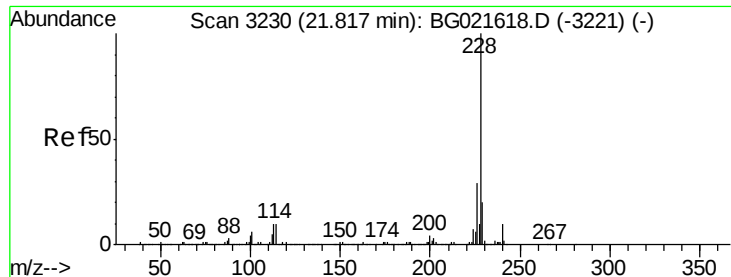
Delta R.T. -0.01 min

Lab File: BG021763.D

Acq: 19 Apr 2016 20:17

Tgt Ion:	149	Resp:	114330
Ion Ratio	Lower	Upper	
149	100		
91	68.4	57.8	86.8
206	22.7	17.0	25.4





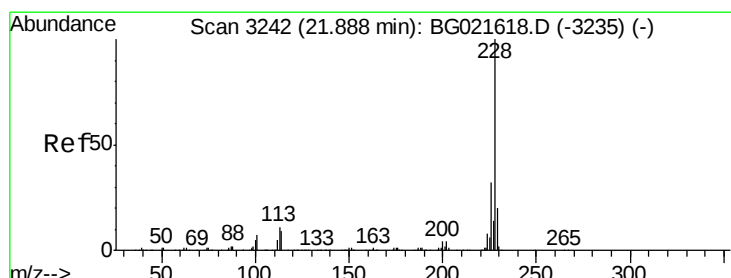
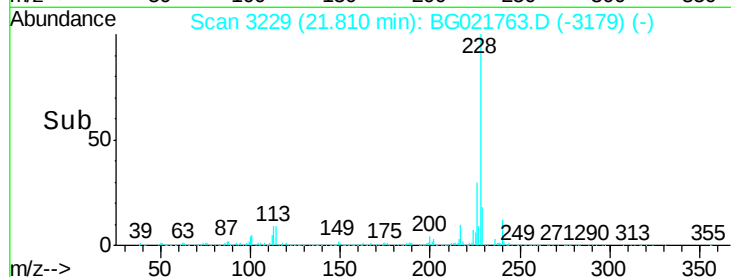
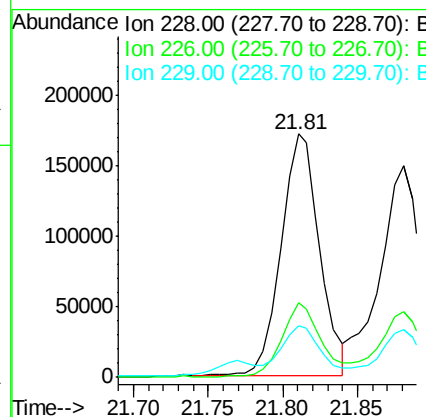
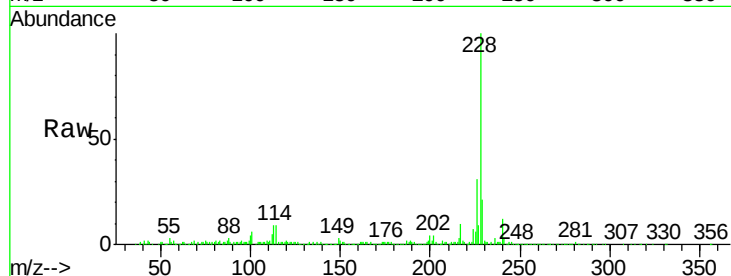
#80
Benzo(a)anthracene
Concen: 24.01 ng
RT: 21.81 min Scan# 3229
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	309774		
226	30.5		22.6	34.0
229	21.5		16.1	24.1

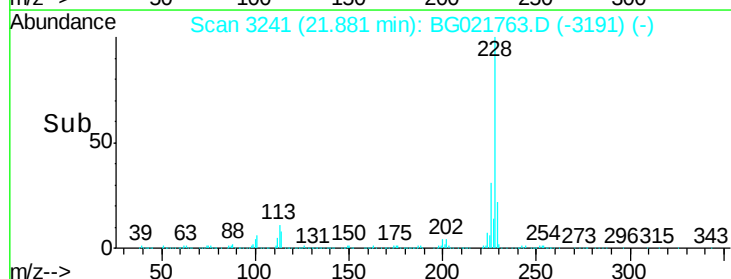
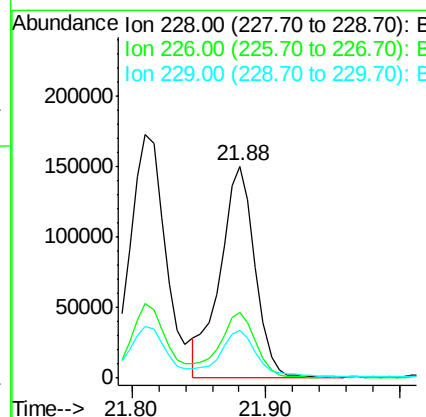
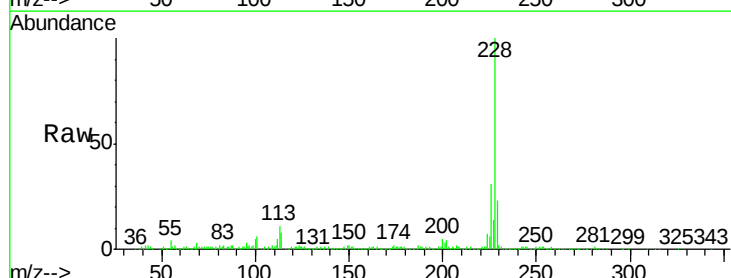
Manual Integrations
APPROVED

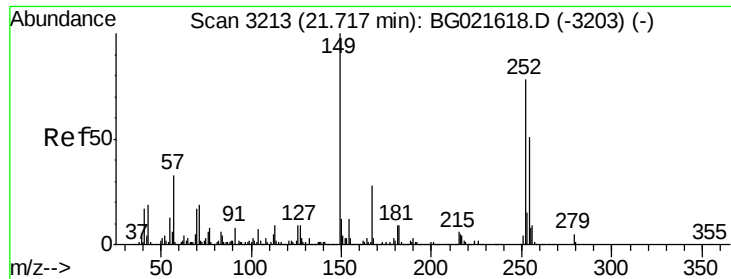
Sohil
4/20/2016 1:38:37 PM



#82
Chrysene
Concen: 21.94 ng
RT: 21.88 min Scan# 3241
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	271870		
226	31.2		25.4	38.0
229	22.7		15.9	23.9





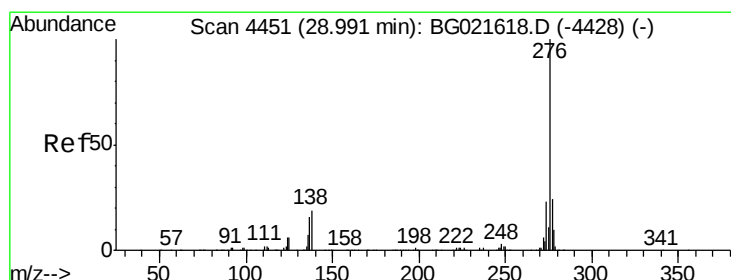
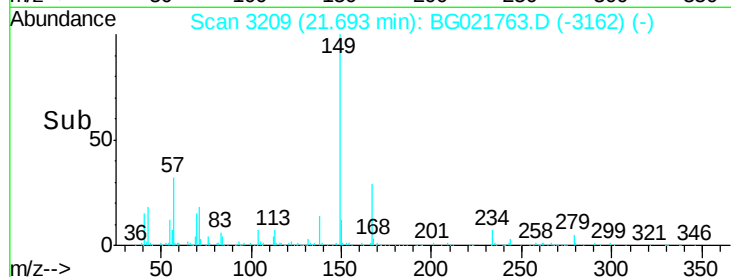
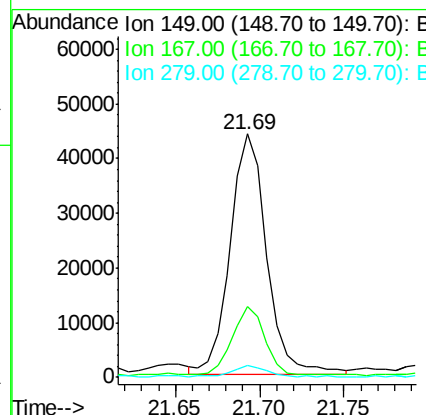
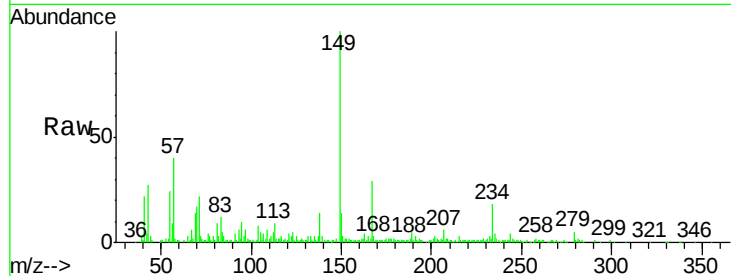
#83
Bis(2-ethylhexyl)phthalate
Concen: 7.65 ng/mL
RT: 21.69 min Scan# 3209
Delta R.T. -0.02 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	29.0	22.4	33.6
279	4.9	3.2	4.8

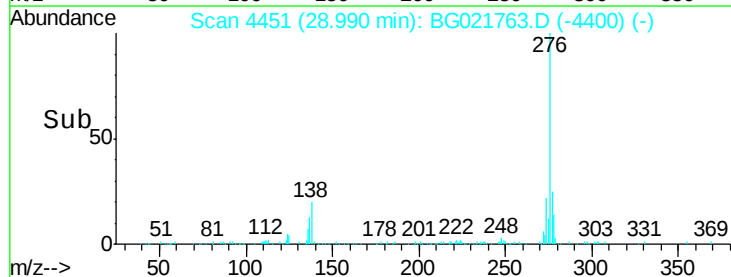
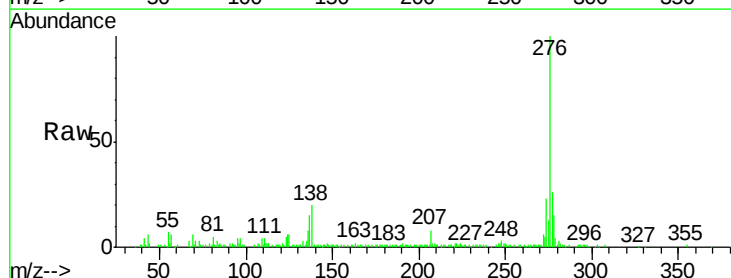
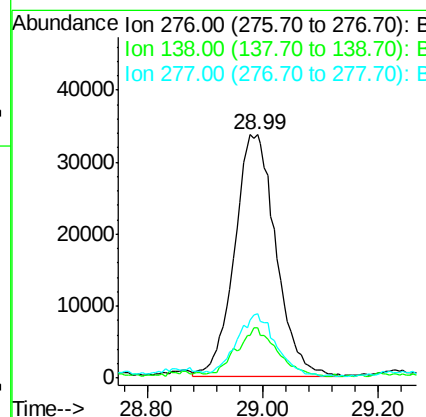
Manual Integrations
APPROVED

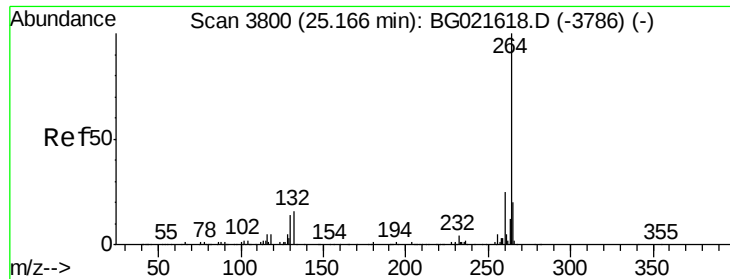
Sohil
4/20/2016 1:38:37 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 11.39 ng/mL
RT: 28.99 min Scan# 4451
Delta R.T. -0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.4	14.0	21.0
277	24.0	20.6	30.8





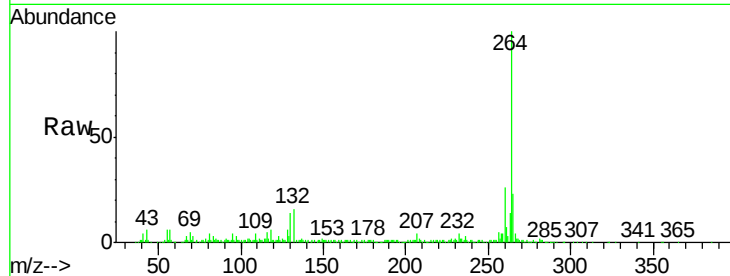
#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.17 min Scan# 3801
Delta R.T. 0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

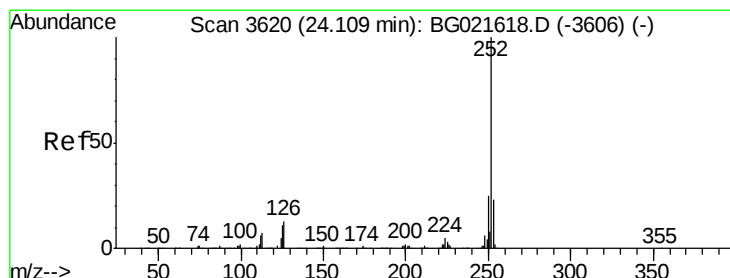
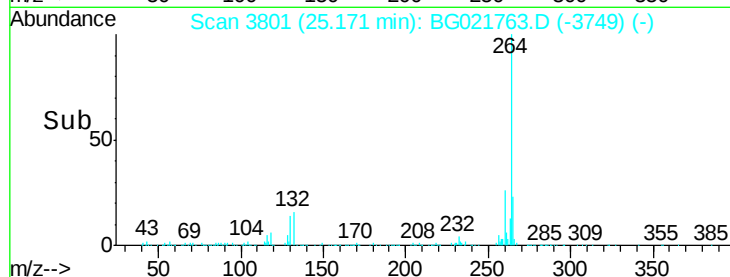
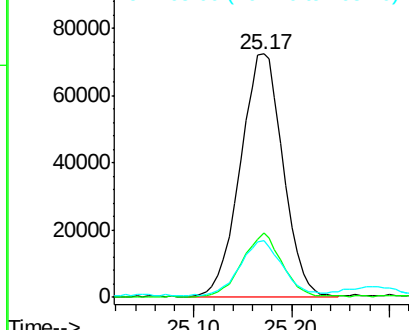
Tot Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.2	30.4
265	23.1	17.8	26.8

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM

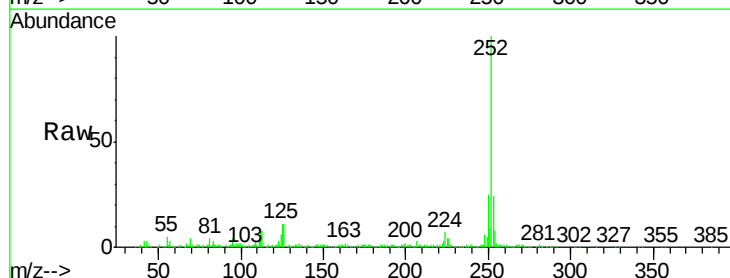


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

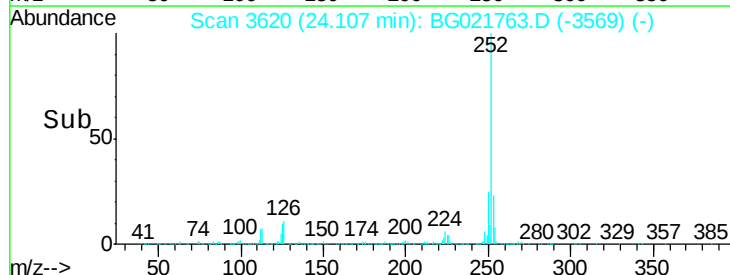
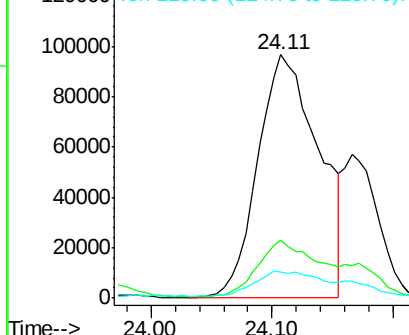


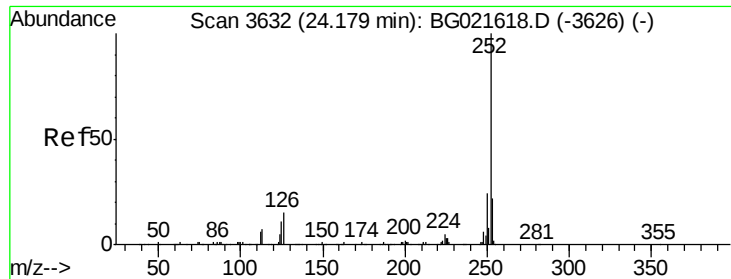
#87
Benzo(b)fluoranthene
Concen: 26.30 ng
RT: 24.11 min Scan# 3620
Delta R.T. -0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	10.7	8.6	13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





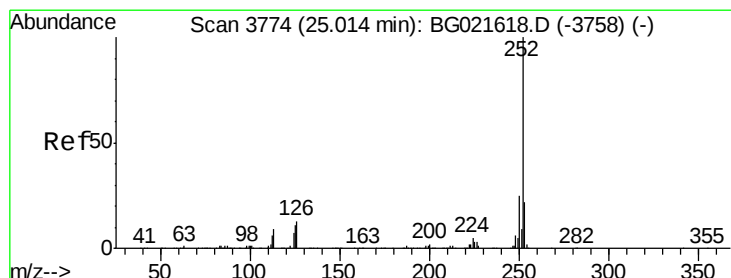
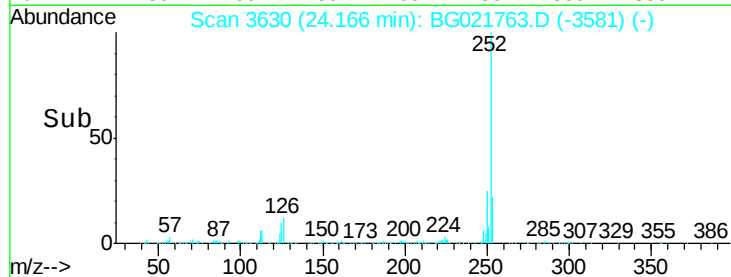
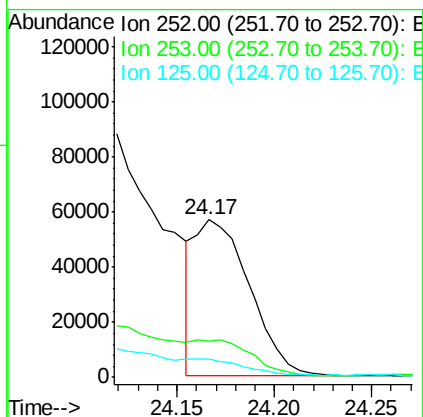
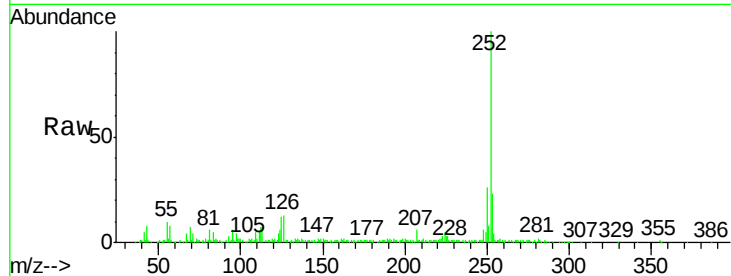
#88
Benzo(k)fluoranthene
Concen: 8.78 ng m
RT: 24.17 min Scan# 3630
Delta R.T. -0.01 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion:	252	Resp:	109701
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.8
125	11.6	8.3	12.5

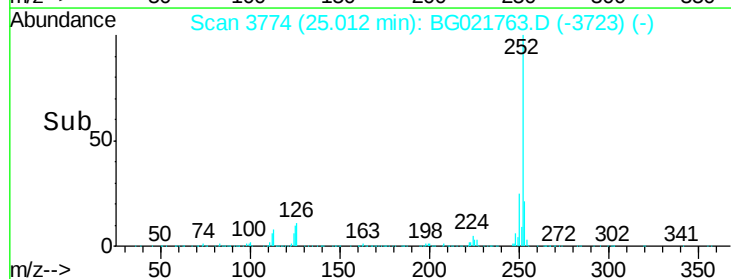
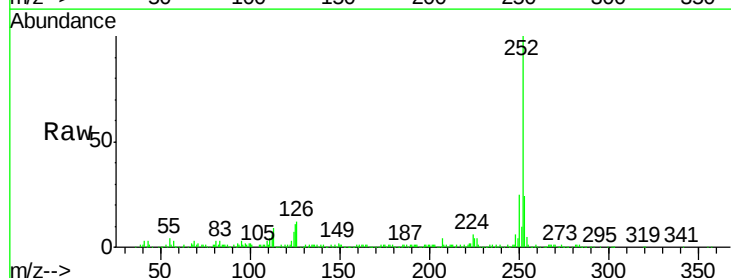
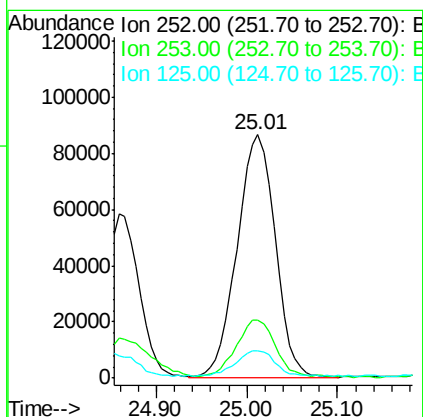
Manual Integrations
APPROVED

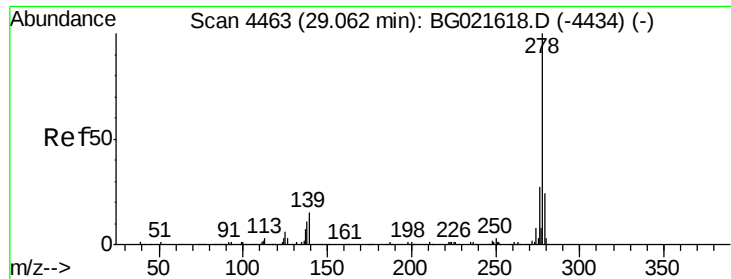
Sohil
4/20/2016 1:38:37 PM



#89
Benzo(a)pyrene
Concen: 20.38 ng
RT: 25.01 min Scan# 3774
Delta R.T. -0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion:	252	Resp:	252487
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.1	25.7
125	11.2	9.6	14.4





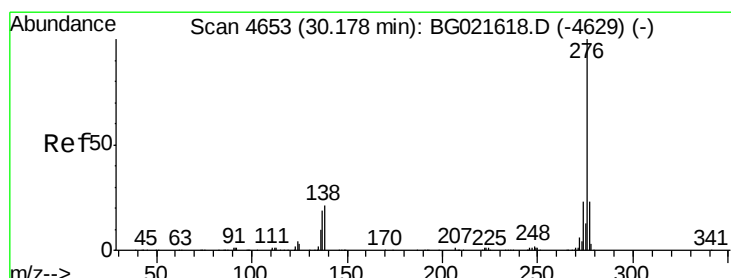
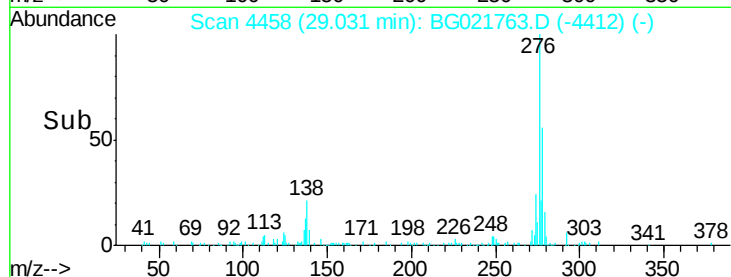
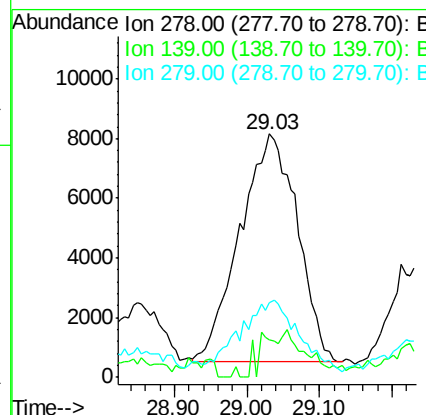
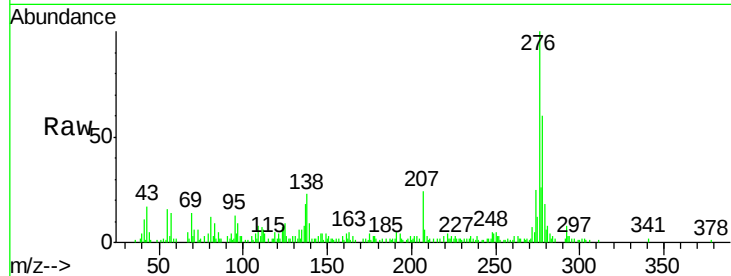
#90
Dibenzo(a,h)anthracene
Concen: 3.40 ng
RT: 29.03 min Scan# 4458
Delta R.T. -0.03 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Instrument :
BNA_G
ClientSampleId :
POST-EX-23-20160412DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.2	11.9	17.9
279	30.8	18.2	27.2

Manual Integrations
APPROVED

Sohil
4/20/2016 1:38:37 PM



#91
Benzo(g,h,i)perylene
Concen: 12.90 ng
RT: 30.18 min Scan# 4654
Delta R.T. 0.00 min
Lab File: BG021763.D
Acq: 19 Apr 2016 20:17

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.2
138	19.0	17.4	26.0

