

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070218\
 Data File : BG035552.D
 Acq On : 2 Jul 2018 15:44
 Operator : JU/SJ
 Sample : J3524-03DLRE 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 AREA-3(D)DLRE

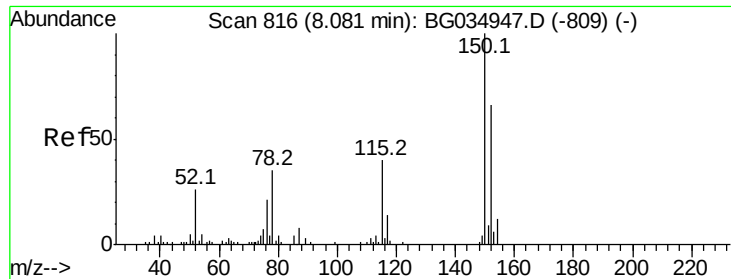
Manual Integrations
 APPROVED

Sohil
 7/3/2018 12:12:04 PM

Quant Time: Jul 03 07:40:12 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG060718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 08 17:16:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	42239	20.00	ng	0.00
21) Naphthalene-d8	10.87	136	181376	20.00	ng	-0.02
38) Acenaphthene-d10	14.68	164	134492	20.00	ng	-0.01
63) Phenanthrene-d10	17.43	188	324623	20.00	ng	-0.01
75) Chrysene-d12	21.69	240	351523	20.00	ng	-0.02
86) Perylene-d12	24.92	264	357189	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	9179	3.67	ng	0.00
7) Phenol-d6	7.22	99	14503	3.93	ng	0.00
23) Nitrobenzene-d5	9.23	82	10313	2.70	ng	-0.01
41) 2,4,6-Tribromophenol	16.17	330	5108	2.97	ng	-0.01
44) 2-Fluorobiphenyl	13.31	172	25533	2.47	ng	-0.02
78) Terphenyl-d14	20.03	244	37528	2.24	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.92	128	261995	27.806	ng	97
37) 2-Methylnaphthalene	12.52	142	174884	24.481	ng	97
48) Acenaphthylene	14.41	152	34306	2.502	ng	# 89
51) Acenaphthene	14.75	154	75098	8.383	ng	96
54) Dibenzofuran	15.08	168	49400	3.682	ng	# 79
57) Fluorene	15.73	166	154504	13.780	ng	95
70) Phenanthrene	17.47	178	736675	44.674	ng	98
71) Anthracene	17.56	178	154202	9.335	ng	97
74) Fluoranthene	19.47	202	515253	24.012	ng	97
77) Pyrene	19.84	202	664827	28.689	ng	97
80) Benzo(a)anthracene	21.67	228	288608	12.848	ng	98
82) Chrysene	21.74	228	273481m	13.297	ng	
85) Indeno(1,2,3-cd)pyrene	28.58	276	111923m	4.646	ng	
87) Benzo(b)fluoranthene	23.89	252	219855	9.995	ng	99
88) Benzo(k)fluoranthene	23.95	252	83749m	3.892	ng	
89) Benzo(a)pyrene	24.76	252	228820	11.055	ng	# 92
91) Benzo(a,h,i)perylene	29.73	276	121928	6.098	ng	# 91

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



#1

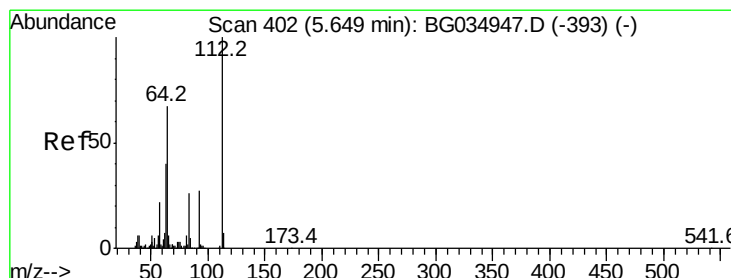
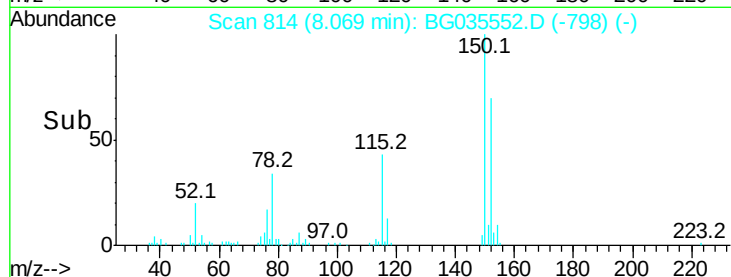
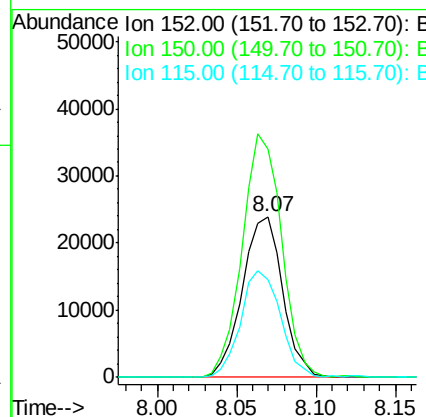
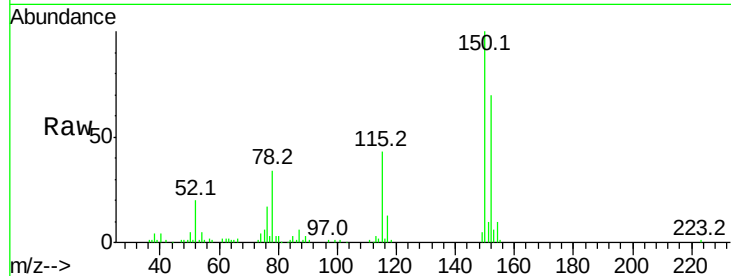
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.07 min Scan# 814
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
152	100		
150	142.3	126.6	189.8
115	60.9	53.0	79.4

Manual Integrations
APPROVED

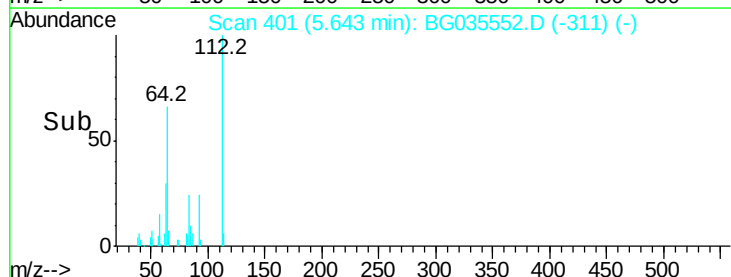
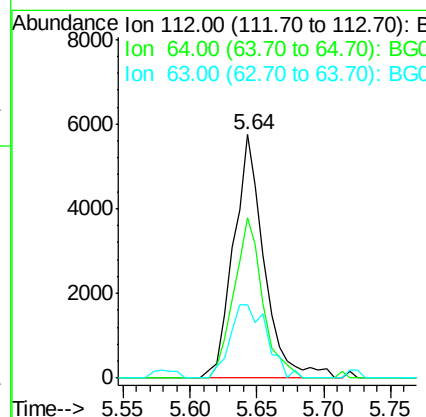
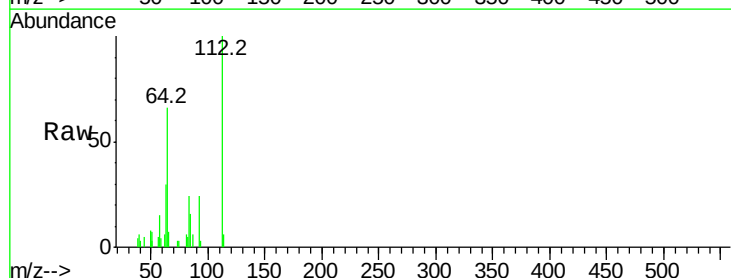
Sohil
7/3/2018 12:12:04 PM

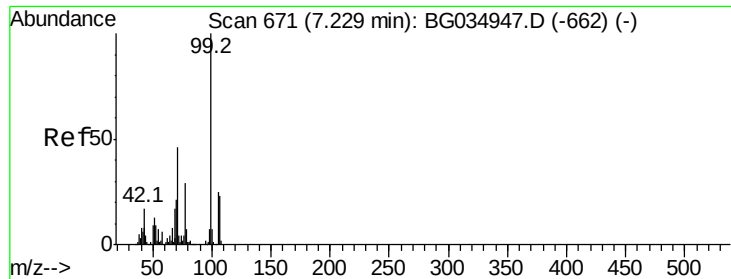


#5

2-Fluorophenol
Concen: 3.667 ng
RT: 5.64 min Scan# 401
Delta R.T. -0.00 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	56.3	84.5
63	30.3	30.1	45.1





#7

Phenol-d6

Concen: 3.926 ng

RT: 7.22 min Scan# 670

Delta R.T. -0.00 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

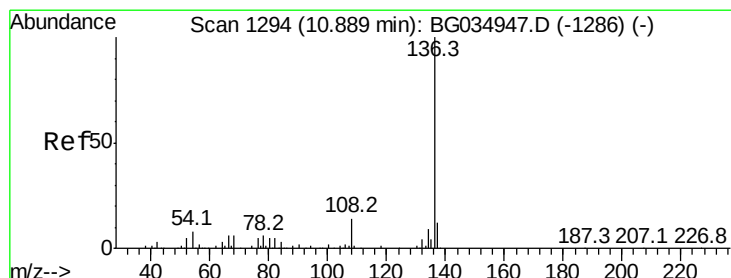
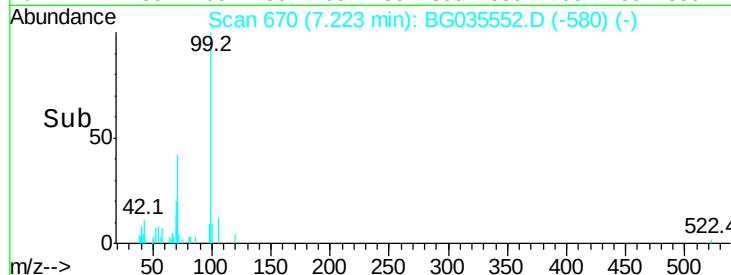
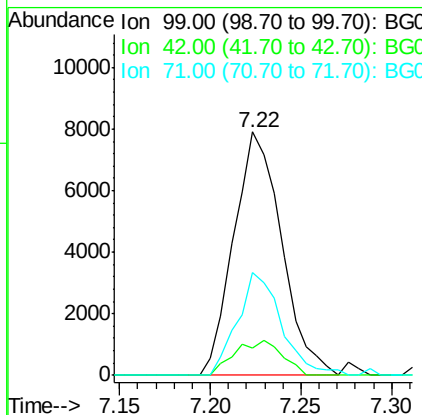
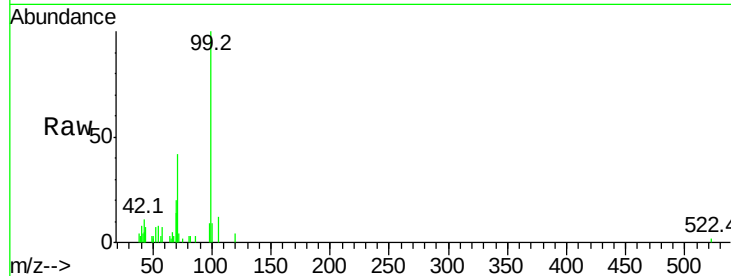
ClientSampled :

AREA-3(D)DLRE

Tot Ion:	99	Resp:	14503
Ion Ratio	Lower	Upper	
99	100		
42	11.4	14.1	21.1#
71	42.1	26.1	39.1#

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#21

Naphthalene-d8

Concen: 20.000 ng

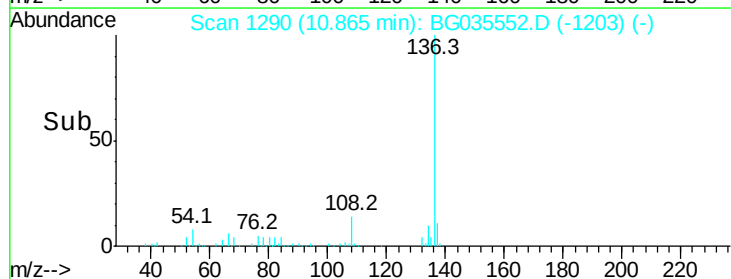
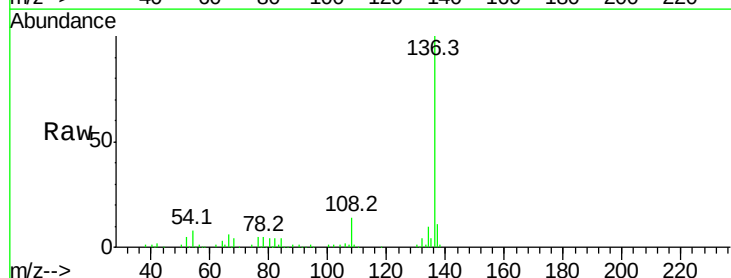
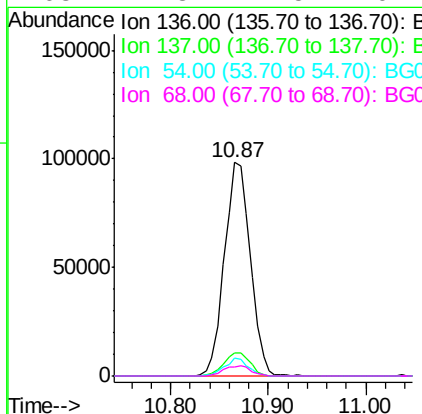
RT: 10.87 min Scan# 1290

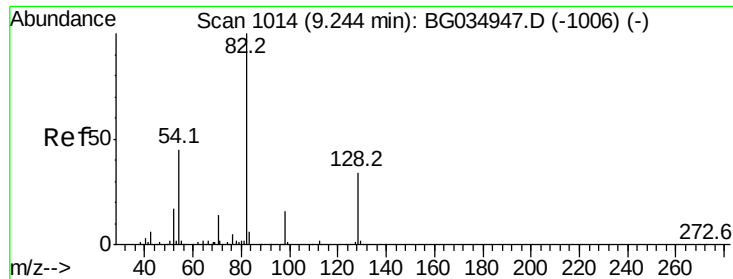
Delta R.T. -0.02 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion:	136	Resp:	181376
Ion Ratio	Lower	Upper	
136	100		
137	10.6	9.2	13.8
54	8.2	10.3	15.5#
68	4.3	4.5	6.7#





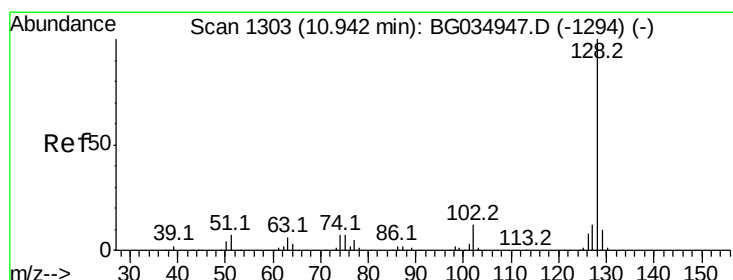
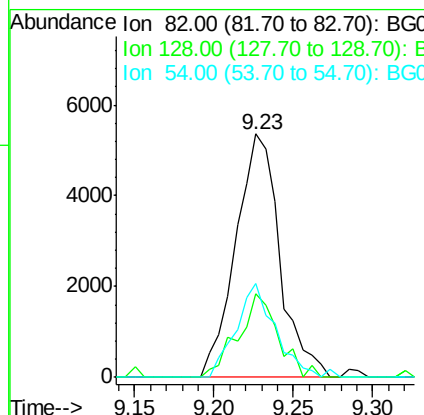
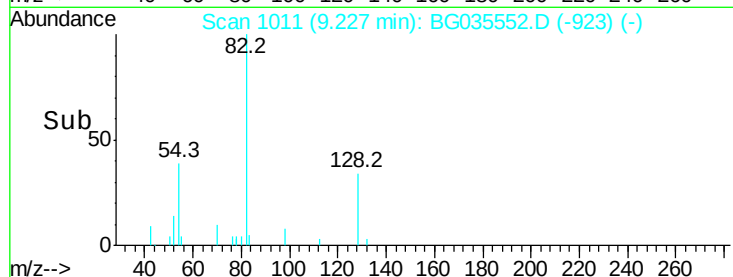
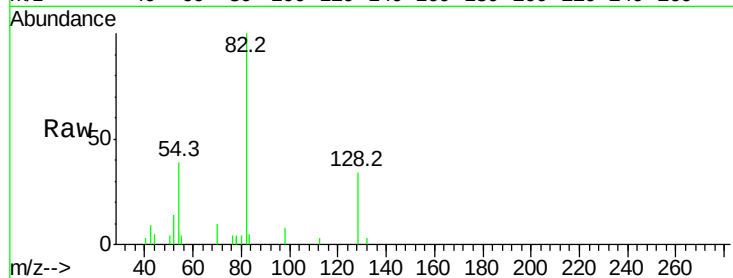
#23
Nitrobenzene-d5
Concen: 2.703 ng
RT: 9.23 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
82	100		
128	34.3	29.7	44.5
54	38.6	43.1	64.7#

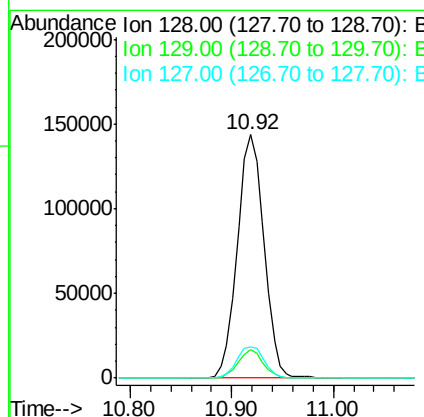
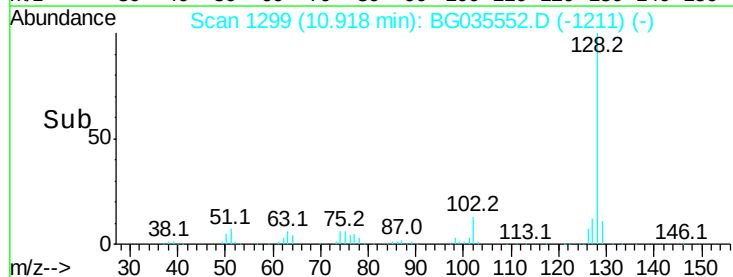
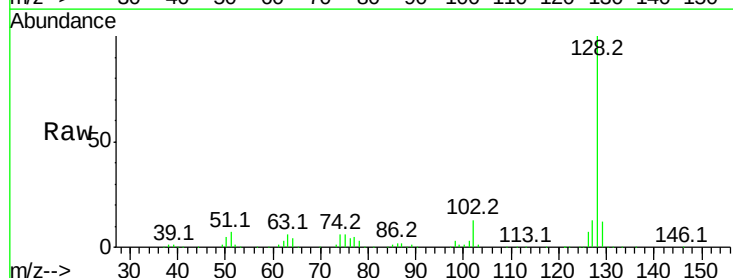
Manual Integrations
APPROVED

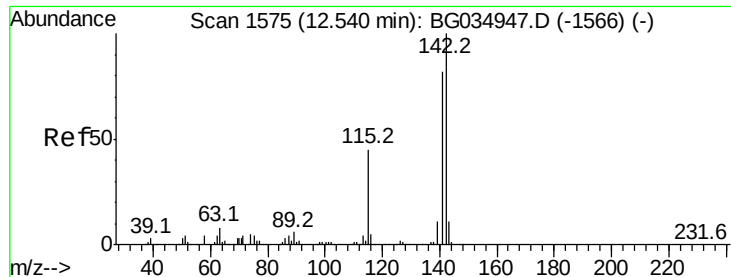
Sohil
7/3/2018 12:12:04 PM



#31
Naphthalene
Concen: 27.806 ng
RT: 10.92 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.6	12.8
127	12.7	11.6	17.4





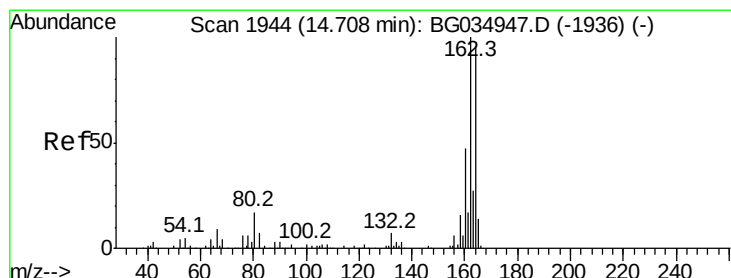
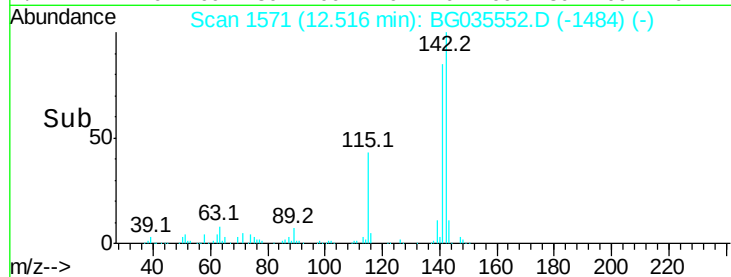
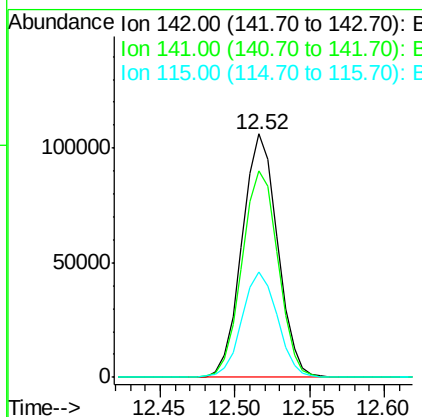
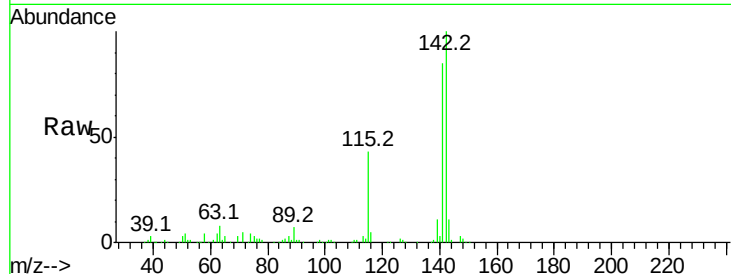
#37
2-Methylnaphthalene
Concen: 24.481 ng
RT: 12.52 min Scan# 1571
Delta R.T. -0.02 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.0	67.1	100.7
115	43.1	30.7	46.1

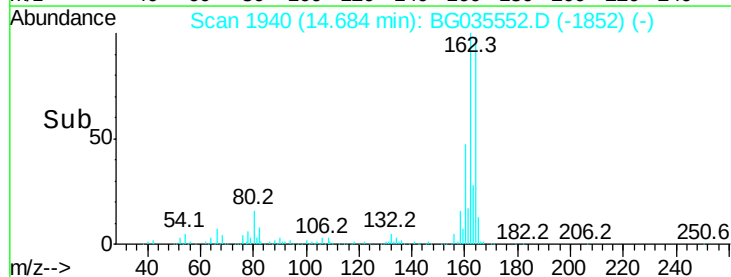
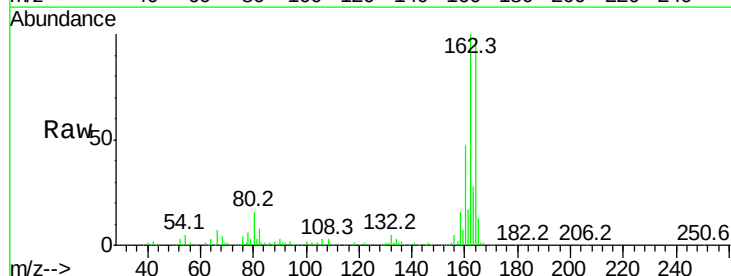
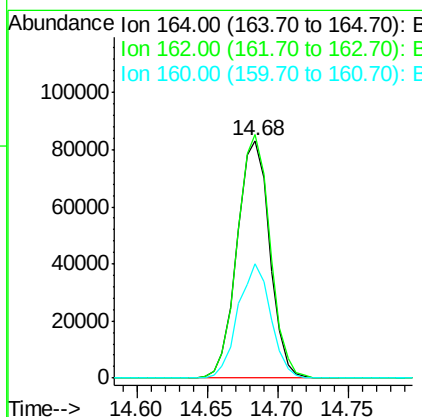
Manual Integrations
APPROVED

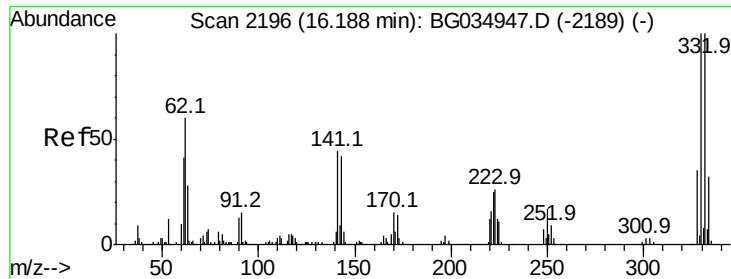
Sohil
7/3/2018 12:12:04 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.68 min Scan# 1940
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	78.8	118.2
160	48.2	35.4	53.0





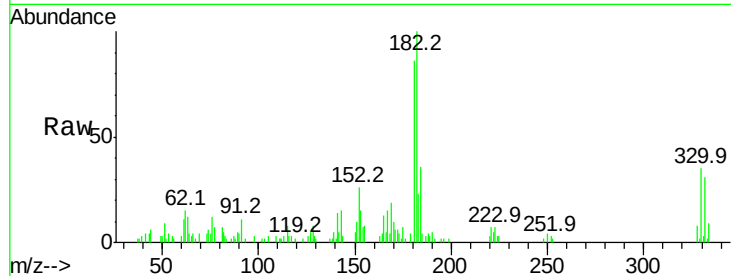
#41
 2,4,6-Tribromophenol
 Concen: 2.967 ng
 RT: 16.17 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: BG035552.D
 Acq: 2 Jul 2018 15:44

Instrument :
 BNA_G
 ClientSampleId :
 AREA-3(D)DLRE

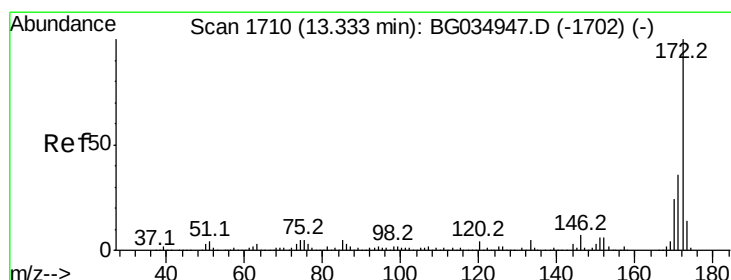
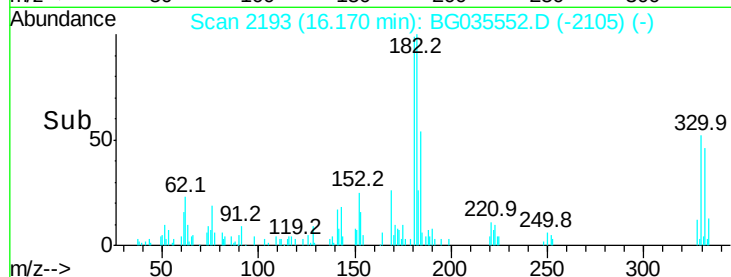
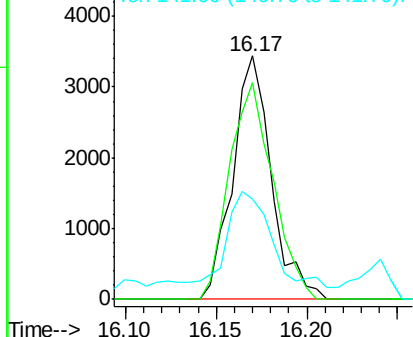
Tot Ion	Ratio	Lower	Upper
330	100		
332	100.1	77.0	115.6
141	43.8	25.2	37.8

Manual Integrations
 APPROVED

Sohil
 7/3/2018 12:12:04 PM

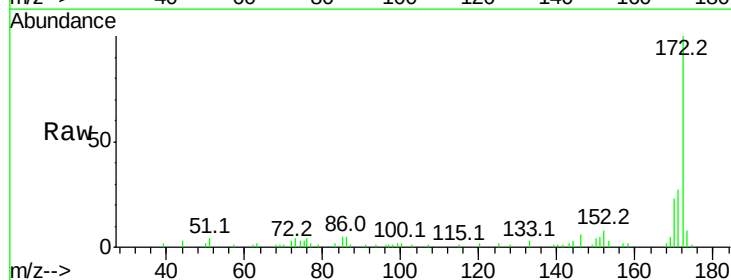


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

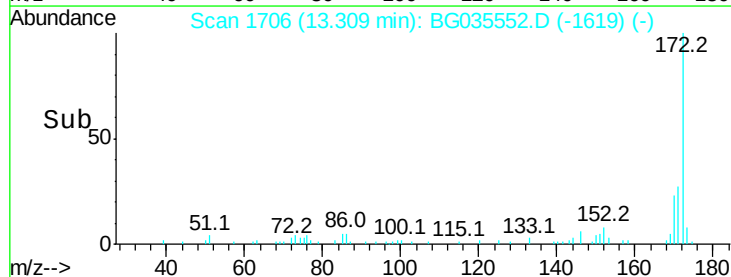
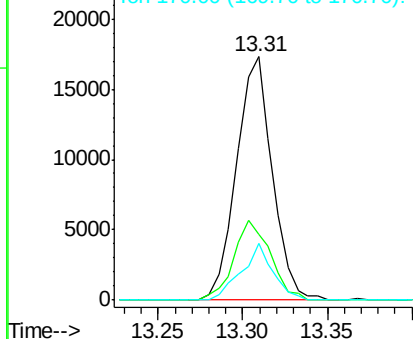


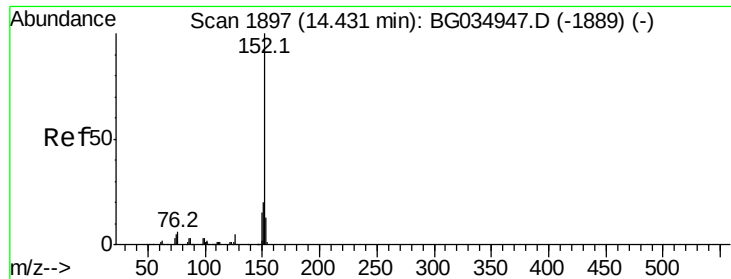
#44
 2-Fluorobiphenyl
 Concen: 2.468 ng
 RT: 13.31 min Scan# 1706
 Delta R.T. -0.02 min
 Lab File: BG035552.D
 Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	26.8	30.0	45.0
170	23.5	19.5	29.3



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





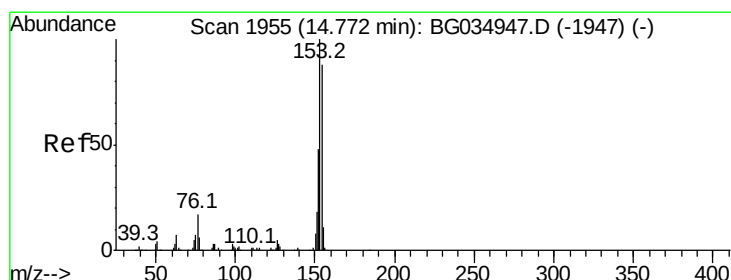
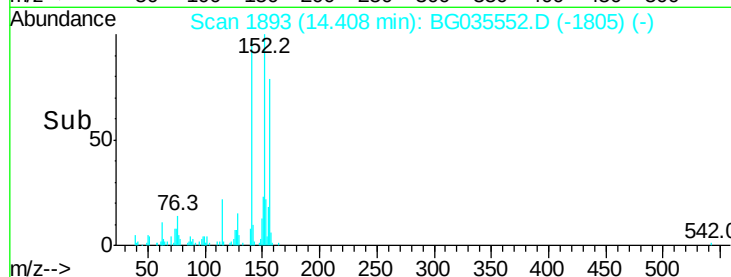
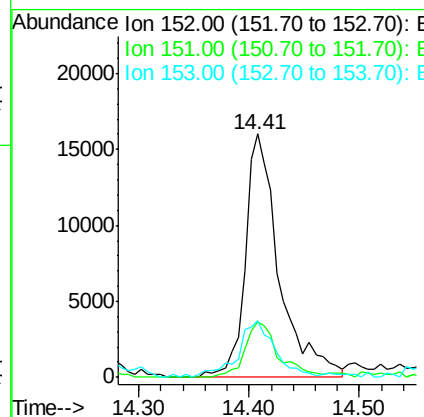
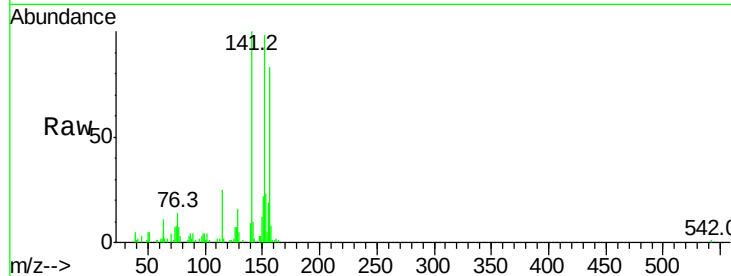
#48
Acenaphthylene
Concen: 2.502 ng
RT: 14.41 min Scan# 1893
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.2	25.8
153	23.1	10.2	15.4

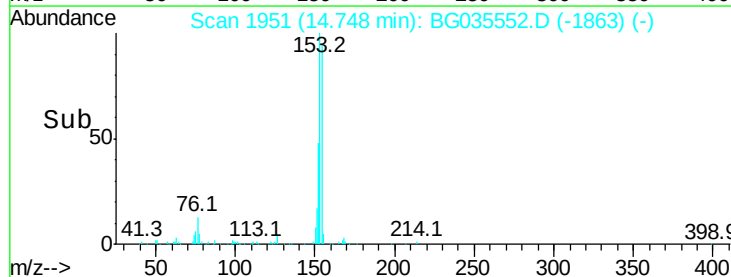
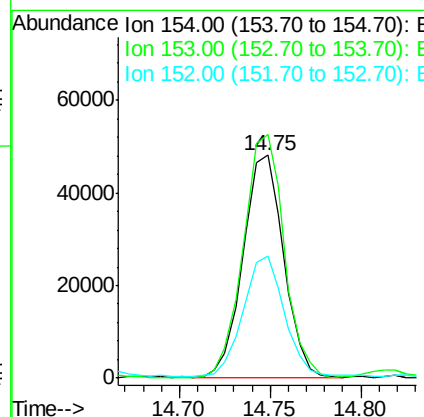
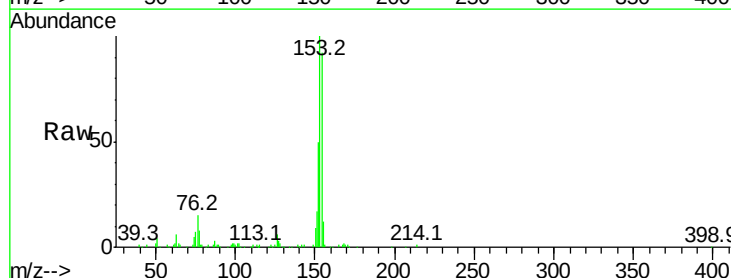
Manual Integrations
APPROVED

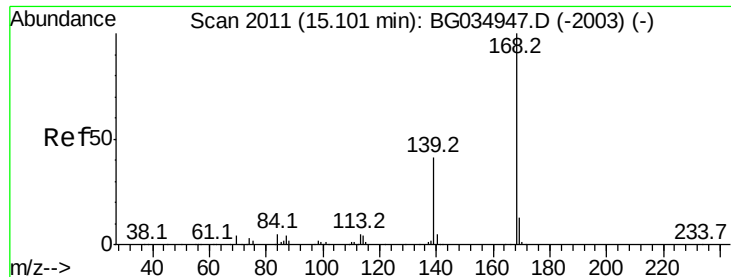
Sohil
7/3/2018 12:12:04 PM



#51
Acenaphthene
Concen: 8.383 ng
RT: 14.75 min Scan# 1951
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.2	90.4	135.6
152	54.8	41.6	62.4





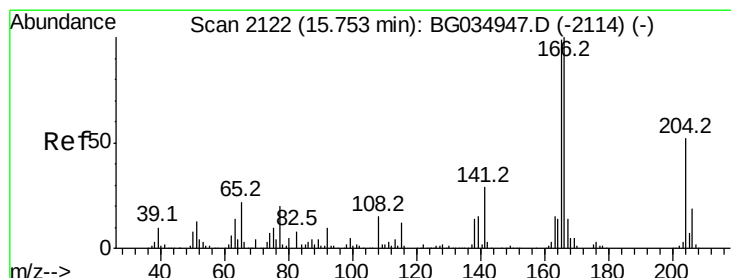
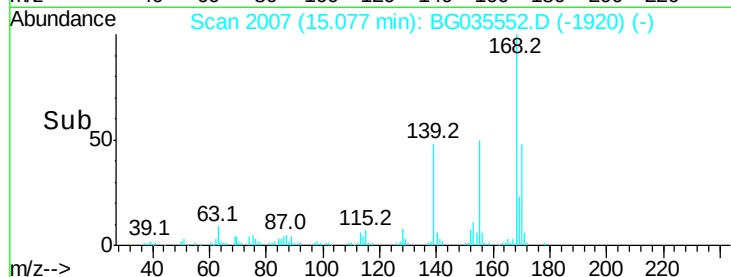
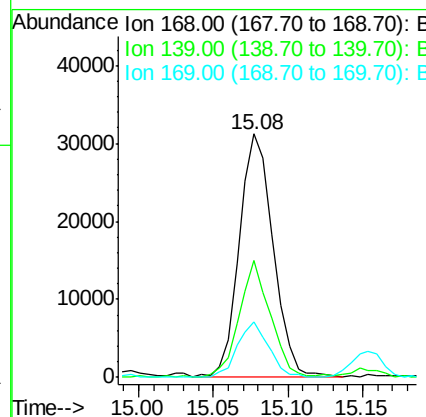
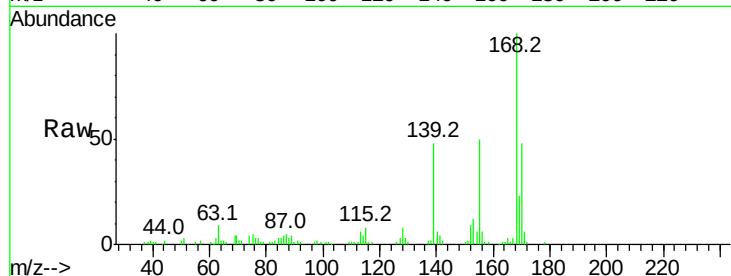
#54
Dibenzenofuran
Concen: 3.682 ng
RT: 15.08 min Scan# 2007
Delta R.T. -0.02 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
168	100		
139	48.1	28.6	43.0#
169	22.6	11.2	16.8#

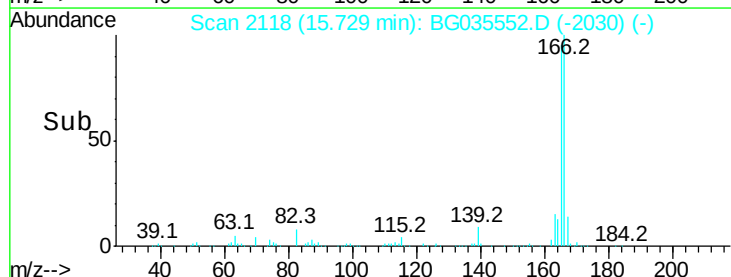
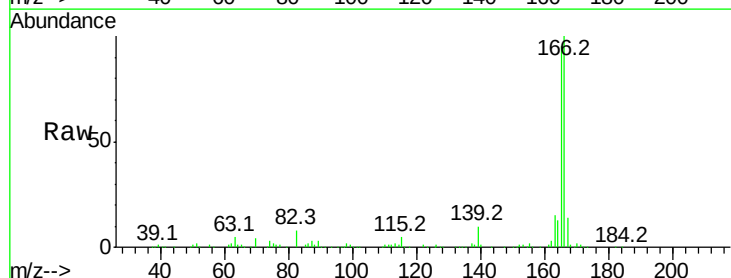
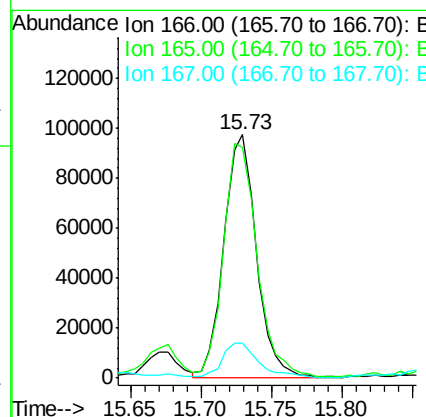
Manual Integrations
APPROVED

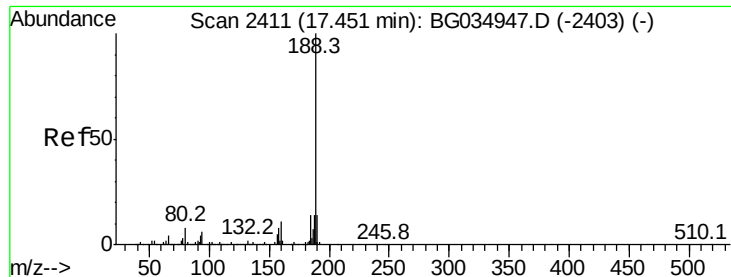
Sohil
7/3/2018 12:12:04 PM



#57
Fluorene
Concen: 13.780 ng
RT: 15.73 min Scan# 2118
Delta R.T. -0.01 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.0	80.6	121.0
167	14.1	10.4	15.6





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.43 min Scan# 2407

Delta R.T. -0.01 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

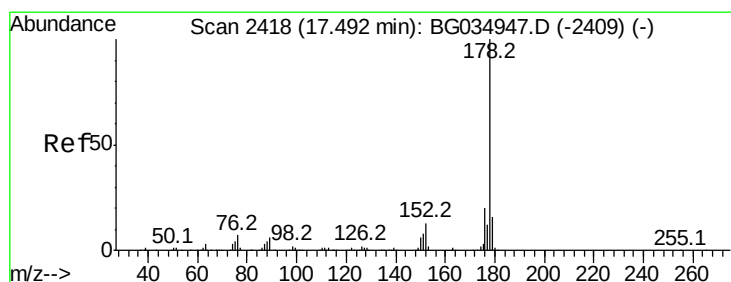
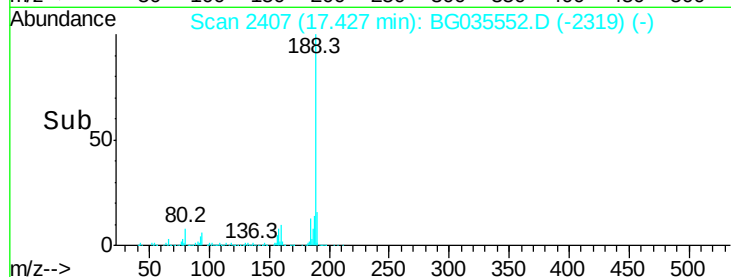
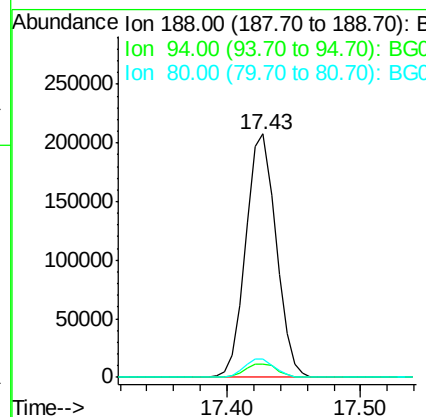
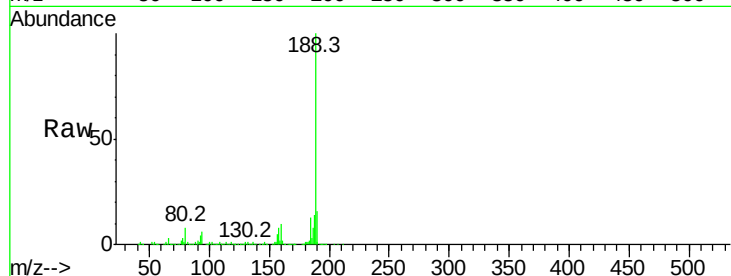
ClientSampleId :

AREA-3(D)DLRE

Tot Ion:	188	Resp:	324623
Ion Ratio	Lower	Upper	
188	100		
94	5.5	6.9	10.3#
80	7.5	7.7	11.5#

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#70

Phenanthrene

Concen: 44.674 ng

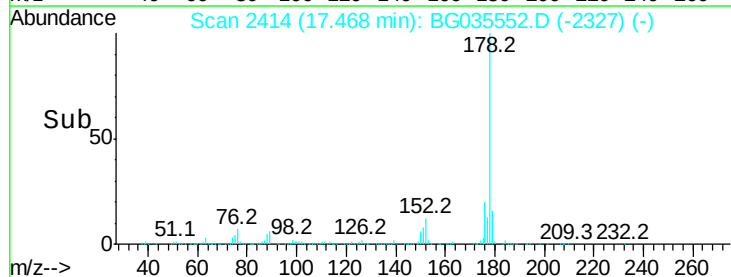
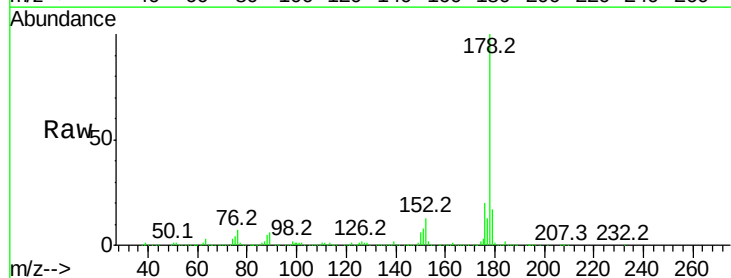
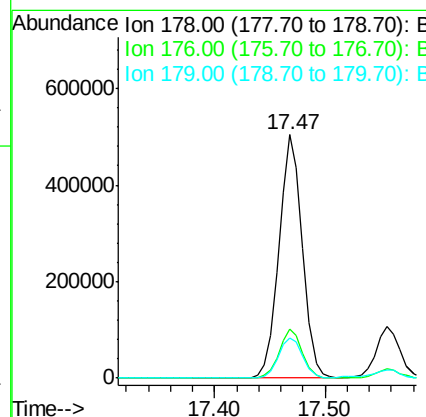
RT: 17.47 min Scan# 2414

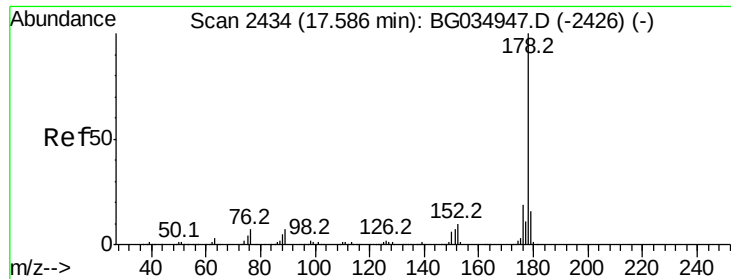
Delta R.T. -0.02 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion:	178	Resp:	736675
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.7	23.5
179	16.5	12.5	18.7





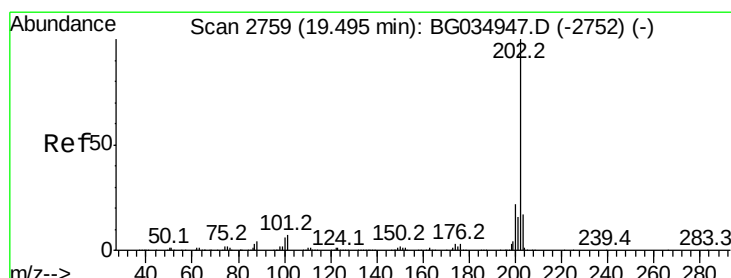
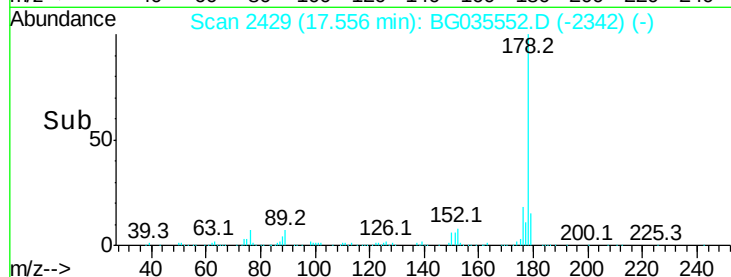
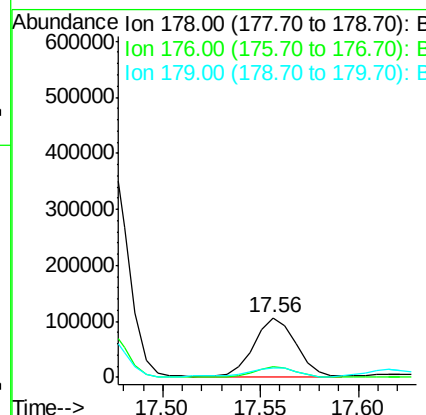
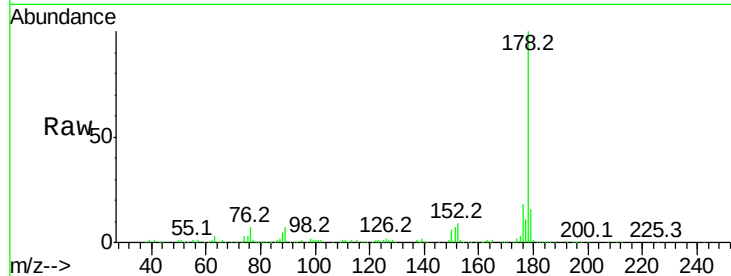
#71
 Anthracene
 Concen: 9.335 ng
 RT: 17.56 min Scan# 2429
 Delta R.T. -0.02 min
 Lab File: BG035552.D
 Acq: 2 Jul 2018 15:44

Instrument :
 BNA_G
 ClientSampleId :
 AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	16.0	24.0
179	16.4	12.5	18.7

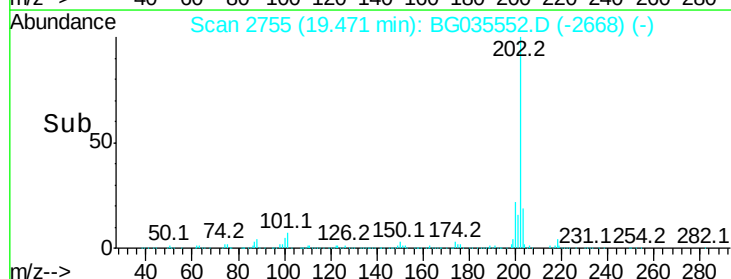
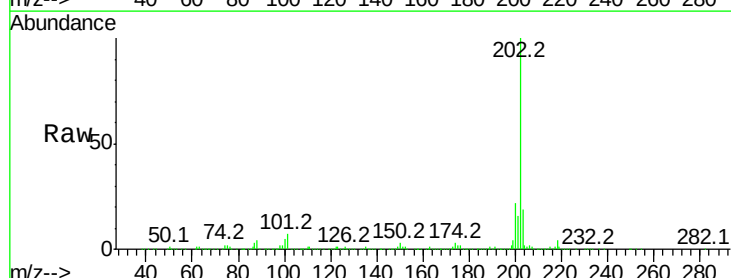
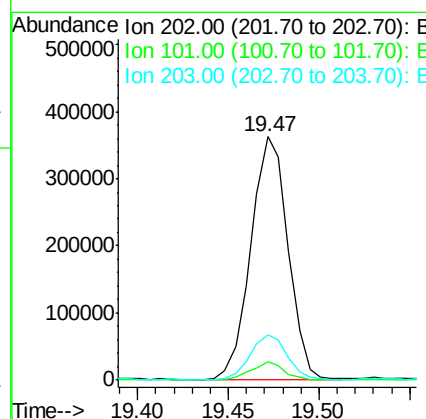
Manual Integrations
 APPROVED

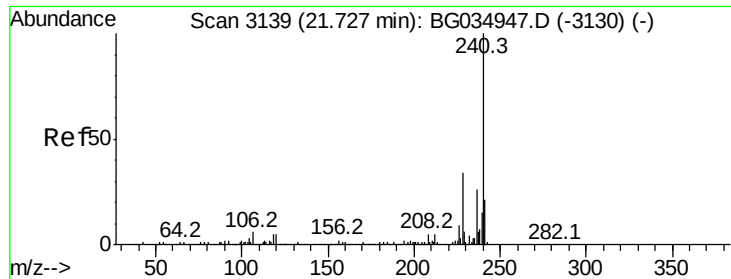
Sohil
 7/3/2018 12:12:04 PM



#74
 Fluoranthene
 Concen: 24.012 ng
 RT: 19.47 min Scan# 2755
 Delta R.T. -0.02 min
 Lab File: BG035552.D
 Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.4	0.0	28.9
203	18.6	0.0	37.5





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.69 min Scan# 3133

Delta R.T. -0.02 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

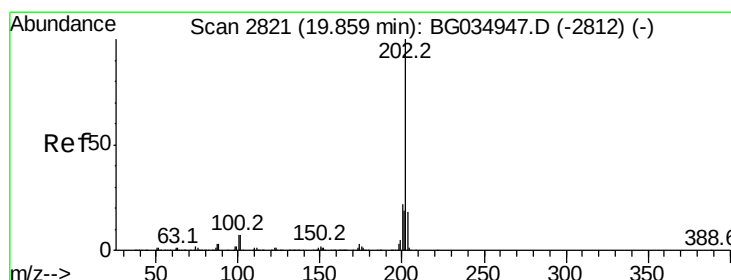
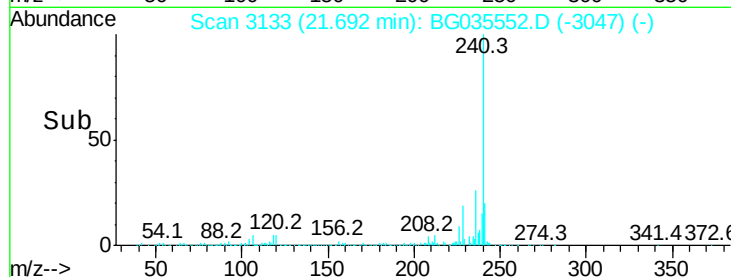
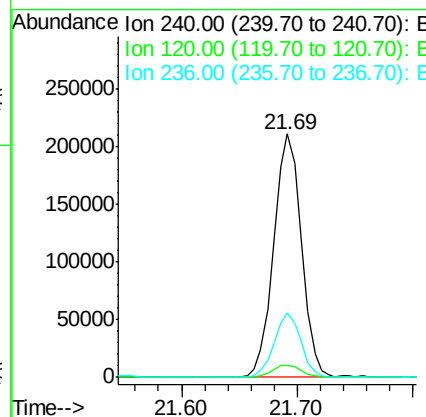
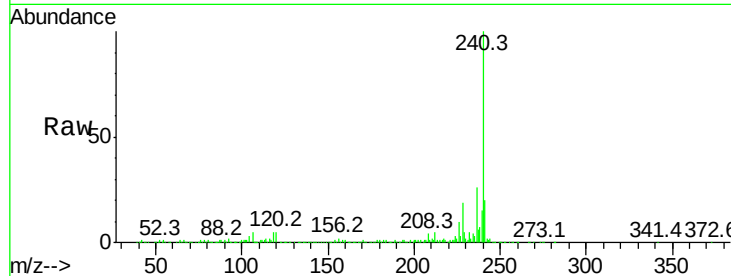
ClientSampleId :

AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
240	100		
120	4.7	6.8	10.2#
236	26.4	20.9	31.3

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#77

Pyrene

Concen: 28.689 ng

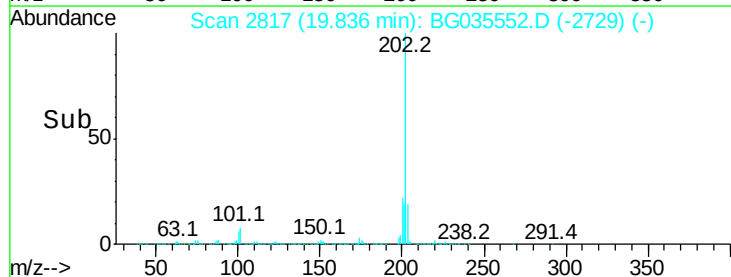
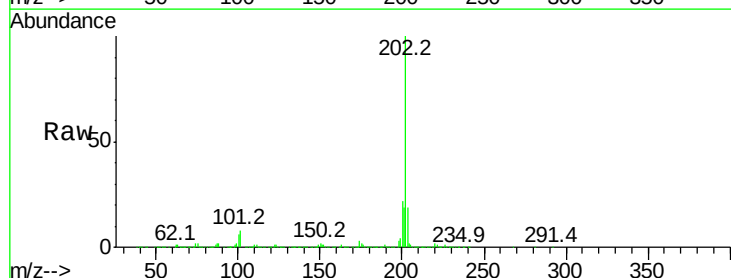
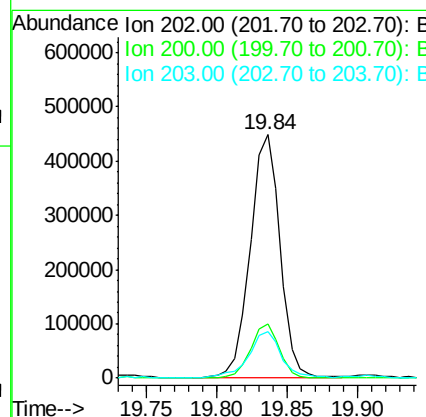
RT: 19.84 min Scan# 2817

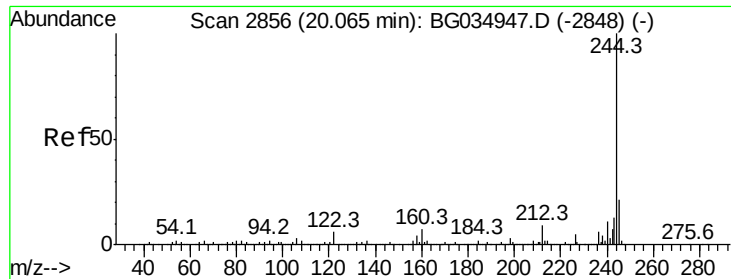
Delta R.T. -0.01 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	16.9	25.3
203	19.2	13.9	20.9





#78

Terphenyl-d14

Concen: 2.236 ng

RT: 20.03 min Scan# 2850

Delta R.T. -0.02 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

ClientSampleId :

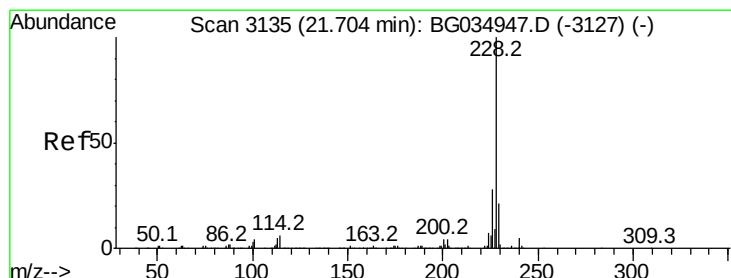
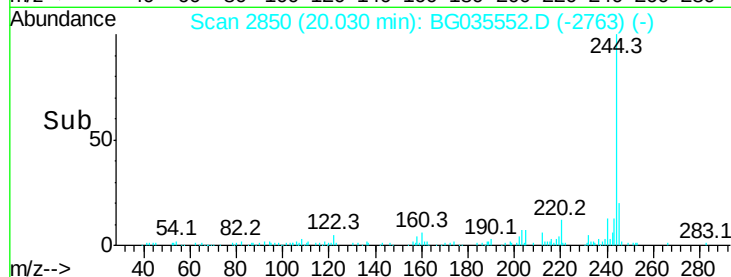
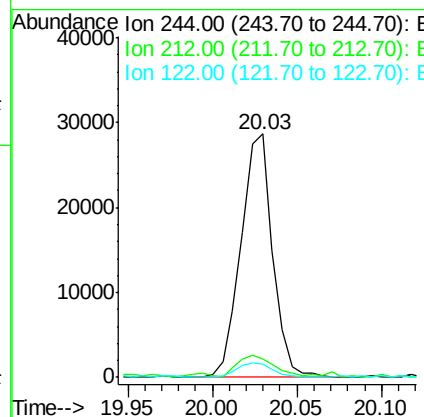
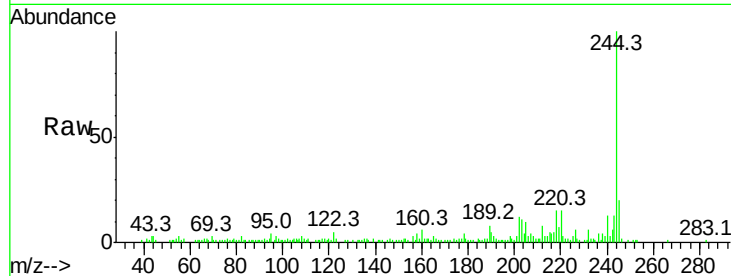
AREA-3(D)DLRE

Tot Ion:244 Resp: 37528

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.8
122	5.3	7.0	10.4

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#80

Benzo(a)anthracene

Concen: 12.848 ng

RT: 21.67 min Scan# 3130

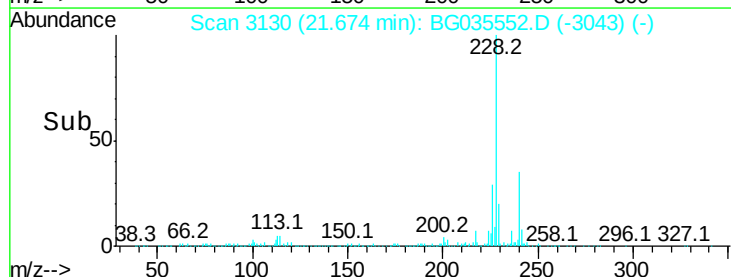
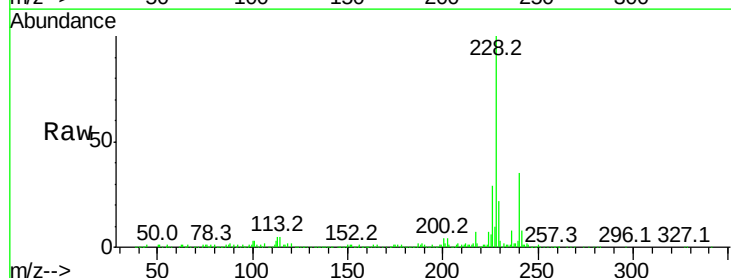
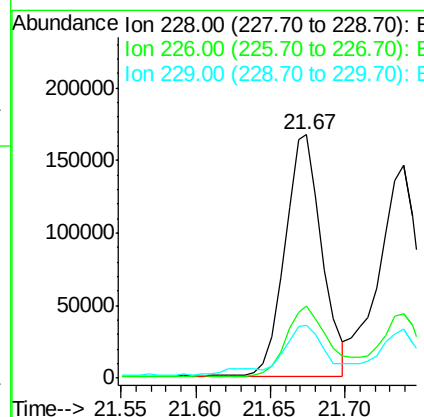
Delta R.T. -0.02 min

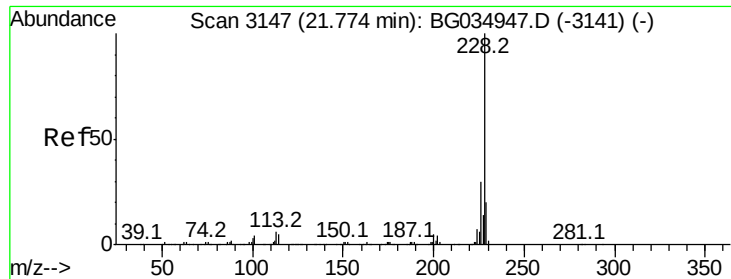
Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion:228 Resp: 288608

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.7	34.1
229	21.7	16.2	24.2





#82

Chrysene

Concen: 13.297 ng m

RT: 21.74 min Scan# 3141

Delta R.T. -0.02 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

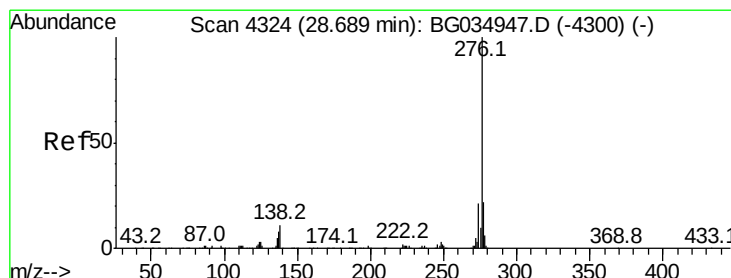
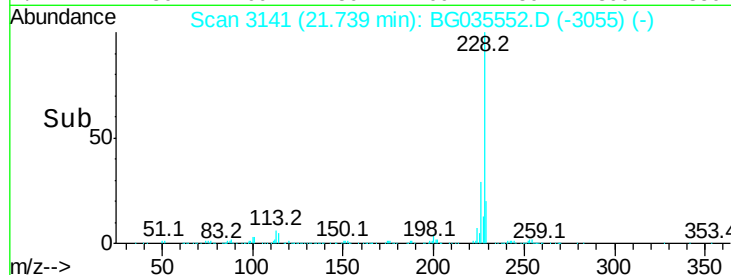
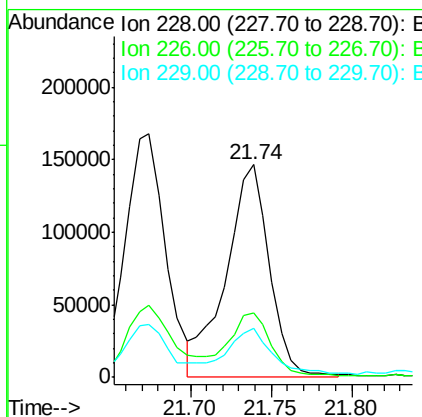
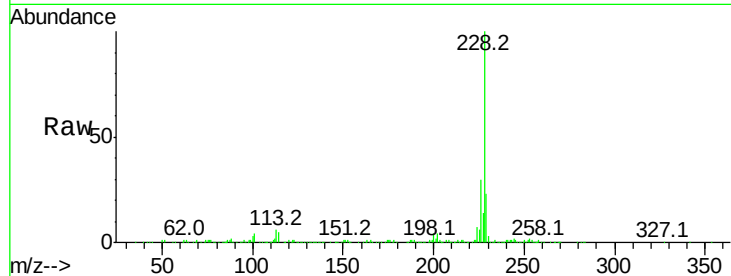
ClientSampleId :

AREA-3(D)DLRE

Tot Ion:	228	Resp:	273481
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.9	37.3
229	23.0	15.0	22.4#

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.646 ng m

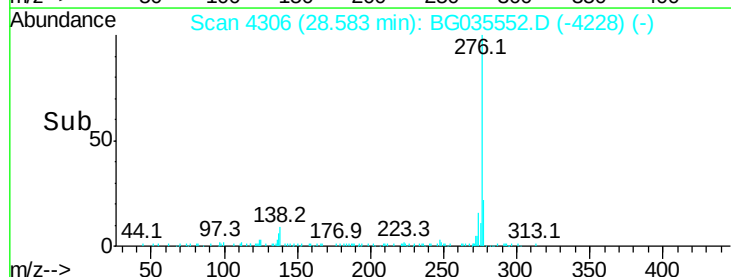
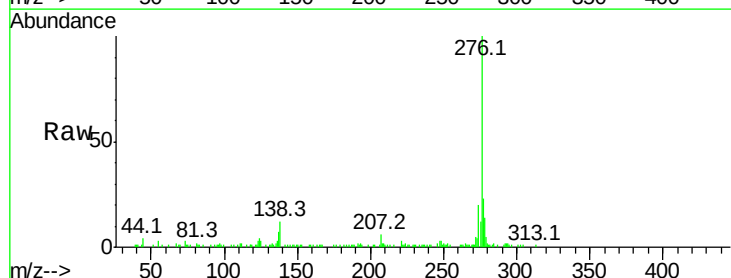
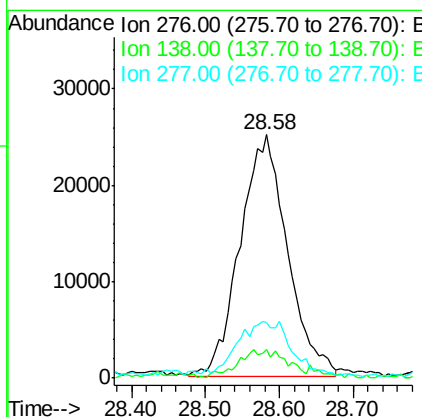
RT: 28.58 min Scan# 4306

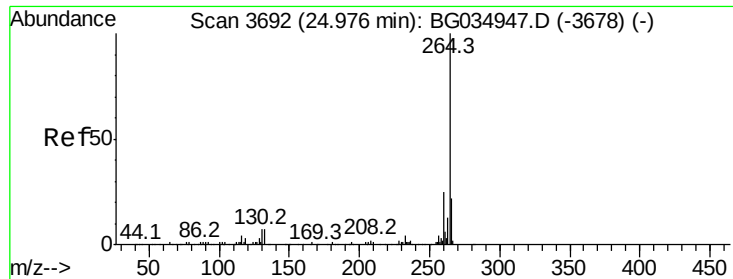
Delta R.T. -0.07 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion:	276	Resp:	111923
Ion Ratio	Lower	Upper	
276	100		
138	0.0	16.0	24.0#
277	0.0	20.0	30.0#





#86

Pervlene-d12

Concen: 20.000 ng

RT: 24.92 min Scan# 3682

Delta R.T. -0.04 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Instrument :

BNA_G

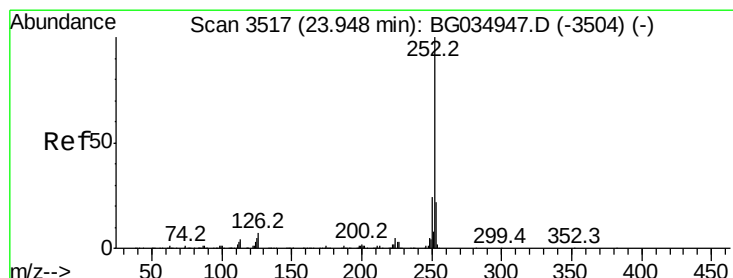
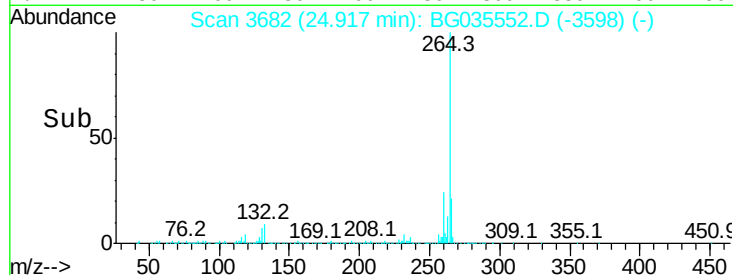
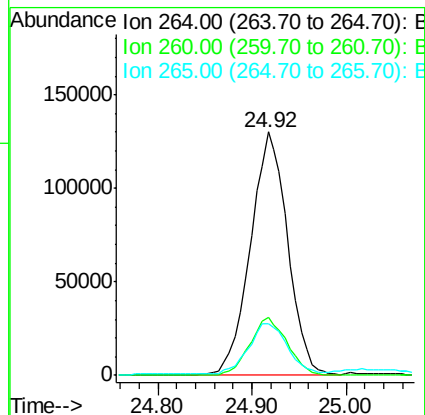
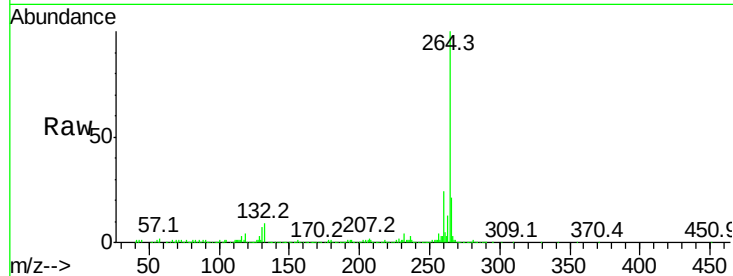
ClientSampleId :

AREA-3(D)DLRE

Tot Ion:	264	Resp:	357189
Ion Ratio	Lower	Upper	
264	100		
260	24.0	17.4	26.0
265	21.3	17.7	26.5

Manual Integrations
APPROVED

Sohil
7/3/2018 12:12:04 PM



#87

Benzo(b)fluoranthene

Concen: 9.995 ng

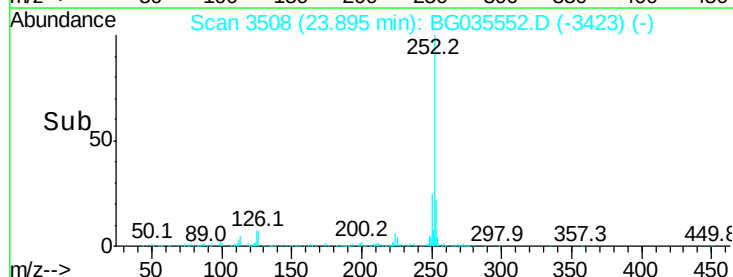
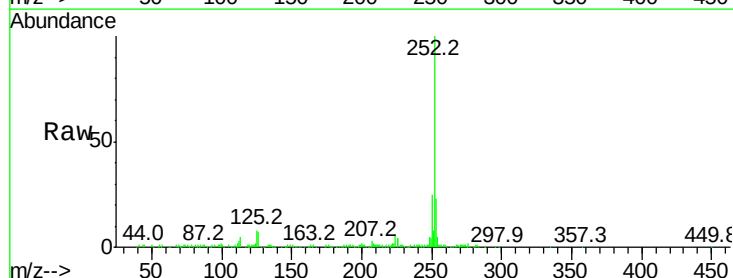
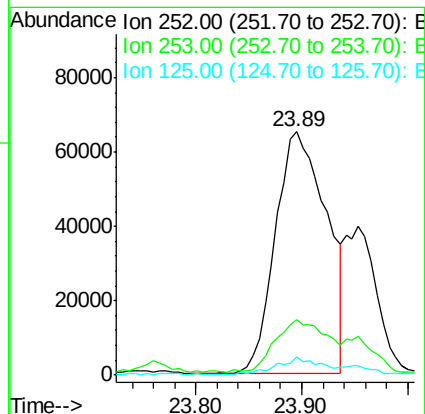
RT: 23.89 min Scan# 3508

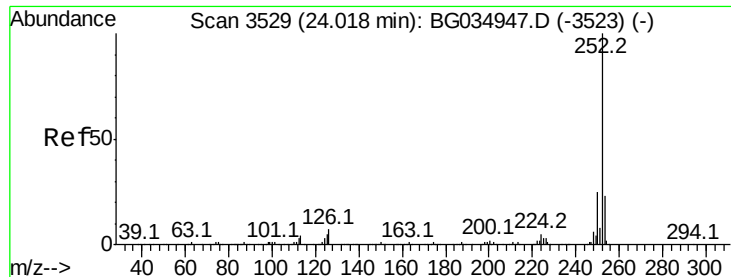
Delta R.T. -0.03 min

Lab File: BG035552.D

Acq: 2 Jul 2018 15:44

Tgt Ion:	252	Resp:	219855
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.2	27.4
125	7.6	7.2	10.8





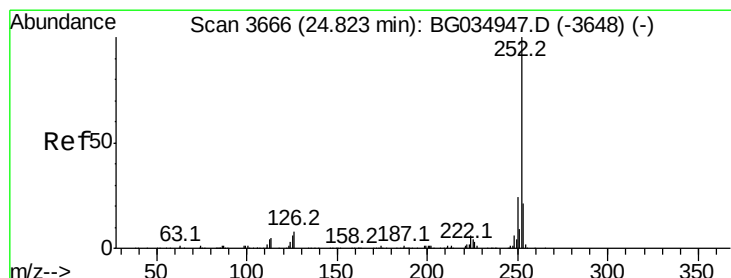
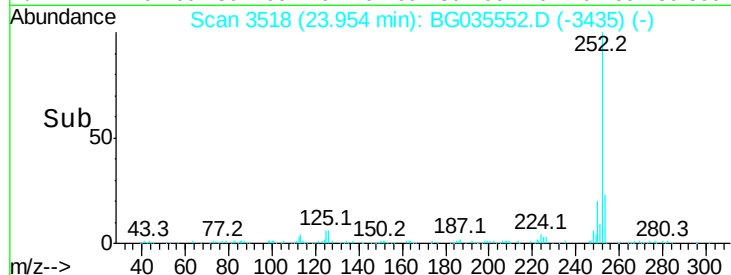
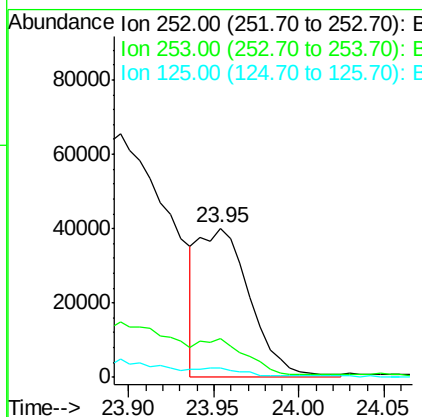
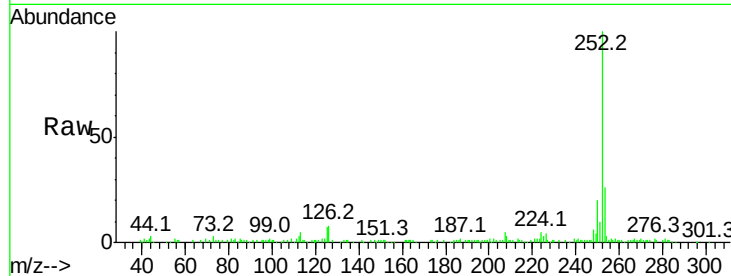
#88
Benzo(k)fluoranthene
Concen: 3.892 ng m
RT: 23.95 min Scan# 3518
Delta R.T. -0.04 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Instrument :
BNA_G
ClientSampleId :
AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.4	26.2
125	6.7	6.6	9.8

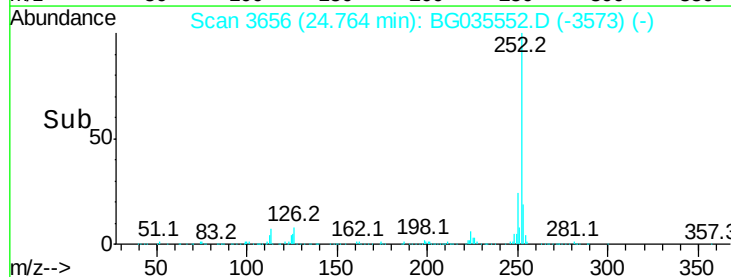
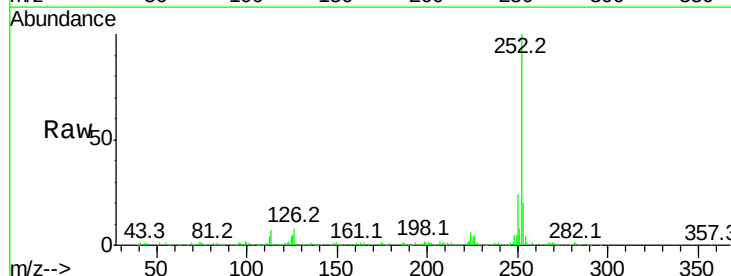
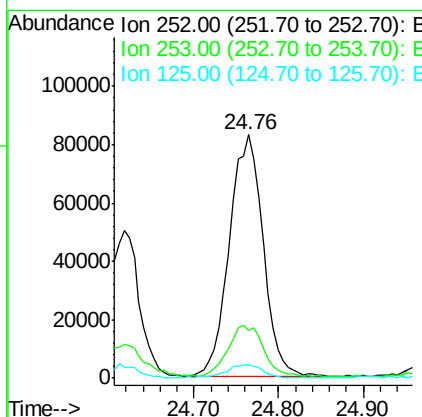
Manual Integrations
APPROVED

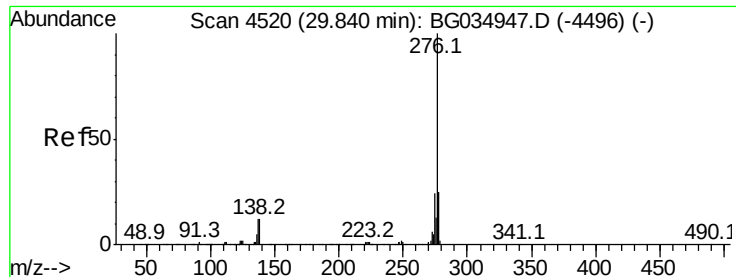
Sohil
7/3/2018 12:12:04 PM



#89
Benzo(a)pyrene
Concen: 11.055 ng
RT: 24.76 min Scan# 3656
Delta R.T. -0.04 min
Lab File: BG035552.D
Acq: 2 Jul 2018 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	19.9	18.3	27.5
125	5.2	7.3	10.9#





#91
 Benzo(a,h,i)perylene
 Concen: 6.098 ng
 RT: 29.73 min Scan# 4501
 Delta R.T. -0.08 min
 Lab File: BG035552.D
 Acq: 2 Jul 2018 15:44

Instrument :
 BNA_G
 ClientSampleId :
 AREA-3(D)DLRE

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.2	18.3	27.5
138	10.1	13.9	20.9

Manual Integrations
 APPROVED

Sohil
 7/3/2018 12:12:04 PM

