

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
 Data File : BF107677.D
 Acq On : 26 Jul 2018 1:27
 Operator : JU/SJ
 Sample : J4138-01
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WASTE

Manual Integrations
 APPROVED

Sohil
 7/26/2018 2:02:15 PM

Quant Time: Jul 26 04:15:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	140323	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	244087	20.00	ng	0.04
38) Acenaphthene-d10	10.09	164	117953	20.00	ng	0.07
63) Phenanthrene-d10	11.57	188	191620	20.00	ng	0.05
75) Chrysene-d12	14.17	240	401046	20.00	ng	0.00
86) Perylene-d12	15.70	264	369902	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	1488606	170.56	ng	0.00
7) Phenol-d6	6.61	99	1643565	156.84	ng	0.00
23) Nitrobenzene-d5	7.55	82	690788	191.00	ng	0.00
41) 2,4,6-Tribromophenol	10.88	330	153022	114.08	ng	0.06
44) 2-Fluorobiphenyl	9.38	172	793357	135.09	ng	0.05
78) Terphenyl-d14	13.12	244	993766	63.44	ng	0.02
Target Compounds						
31) Naphthalene	8.33	128	3504293	326.481	ng	# 88
37) 2-Methylnaphthalene	9.04	142	5849654	786.466	ng	# 92
45) 1,1'-Biphenyl	9.50	154	568413	55.320	ng	# 97
51) Acenaphthene	10.12	154	377810	51.109	ng	# 66
57) Fluorene	10.64	166	578239	74.477	ng	# 81
70) Phenanthrene	11.60	178	2331012	249.635	ng	# 90
71) Anthracene	11.64	178	366948	39.030	ng	# 64
74) Fluoranthene	12.77	202	235614	23.514	ng	# 89
77) Pyrene	13.00	202	763495m	27.832	ng	# 74
80) Benzo(a)anthracene	14.16	228	126928	5.401	ng	# 84
82) Chrysene	14.19	228	141066	6.248	ng	# 84
87) Benzo(b)fluoranthene	15.24	252	80727m	3.988	ng	# 91
89) Benzo(a)pyrene	15.63	252	57317	3.095	ng	# 91

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

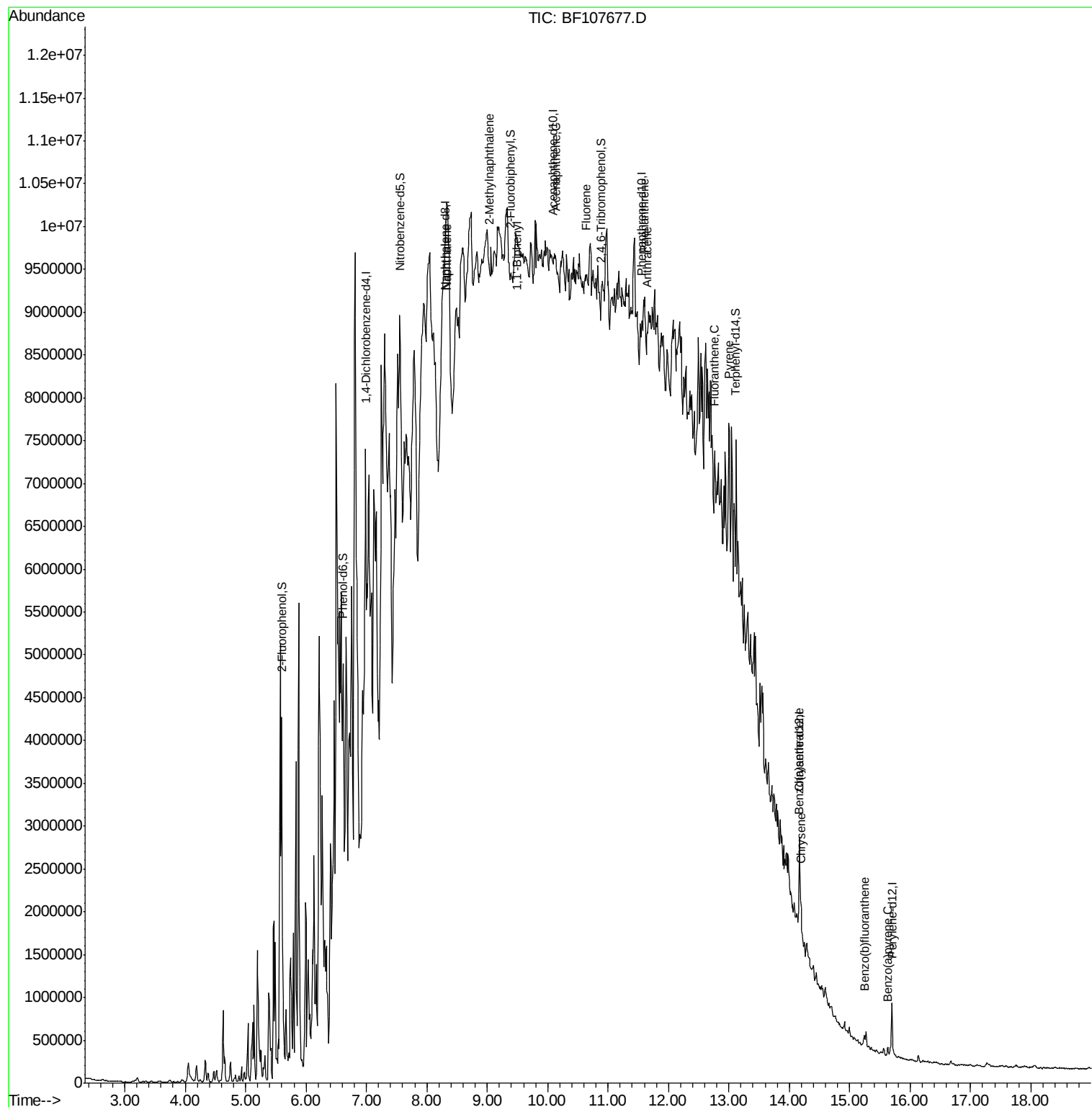
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072518\
Data File : BF107677.D
Acq On : 26 Jul 2018 1:27
Operator : JU/SJ
Sample : J4138-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

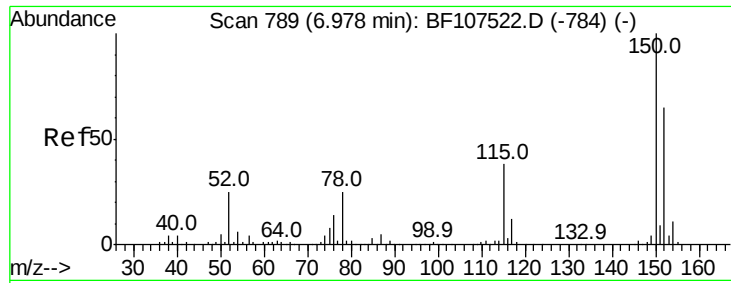
Instrument :
BNA_F
ClientSampleId :
WASTE

Manual Integrations
APPROVED

Sohil
7/26/2018 2:02:15 PM

Quant Time: Jul 26 04:15:14 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 20 16:29:27 2018
Response via : Initial Calibration





#1

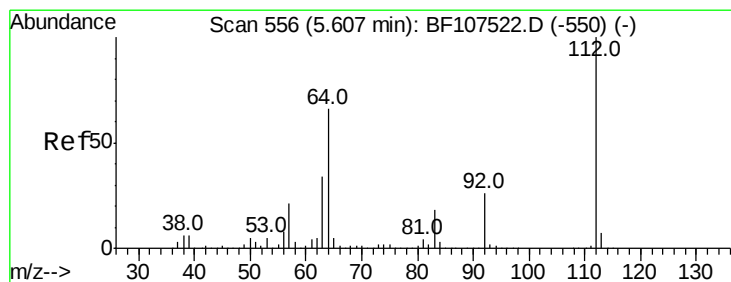
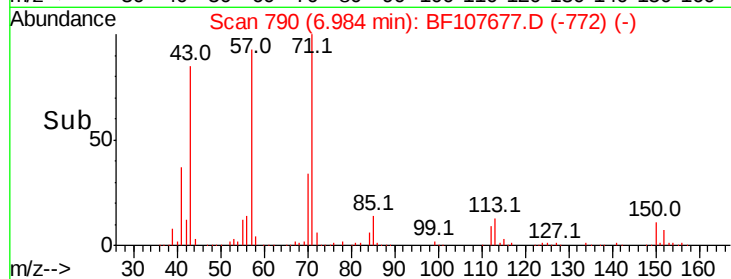
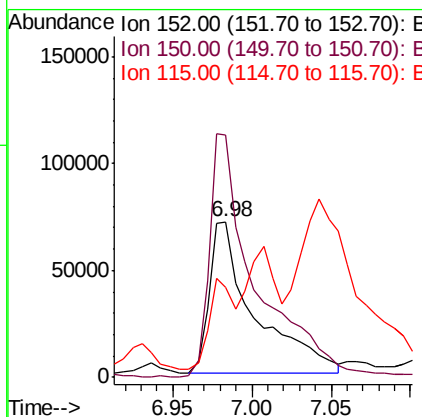
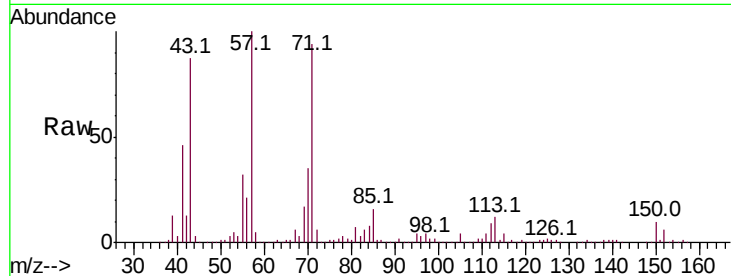
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.98 min Scan# 790
Delta R.T. 0.01 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.6	186.8
115	58.0	50.1	75.1

Manual Integrations
APPROVED

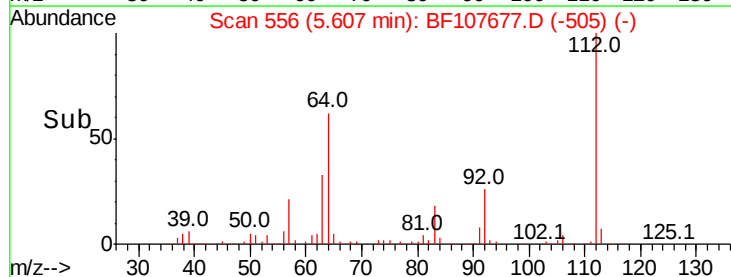
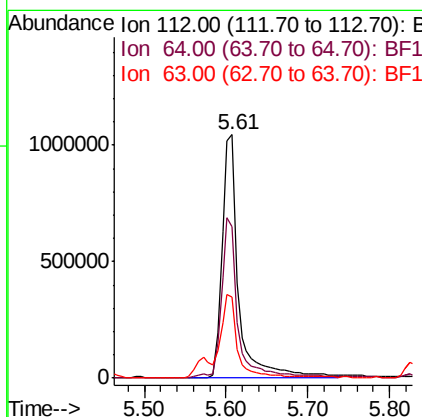
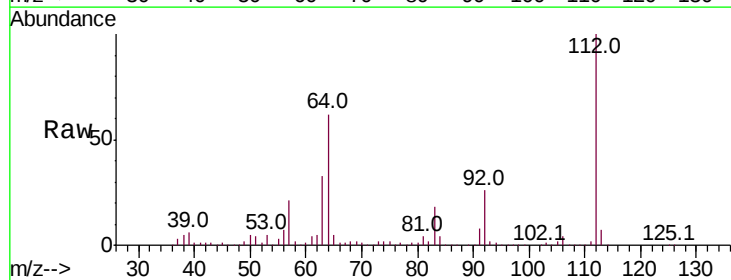
Sohil
7/26/2018 2:02:15 PM

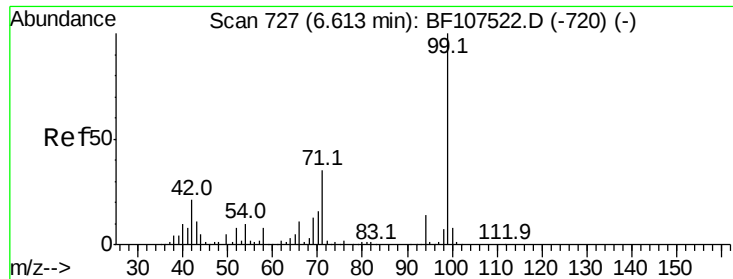


#5

2-Fluorophenol
Concen: 170.563 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.3	47.9	71.9
63	33.2	23.7	35.5





#7

Phenol-d6

Concen: 156.835 ng

RT: 6.61 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Instrument :

BNA_F

ClientSampled :

WASTE

Tot Ion: 99 Resp: 1643565

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

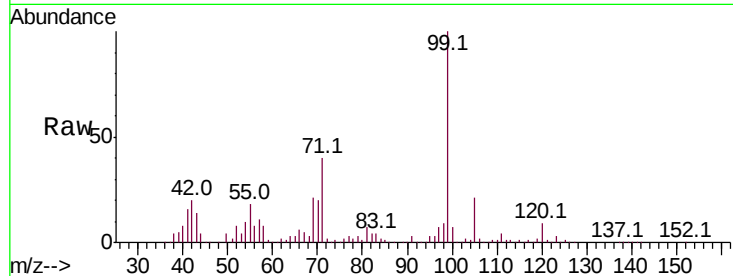
71 40.1 25.4 38.0#

Manual Integrations

APPROVED

Sohil

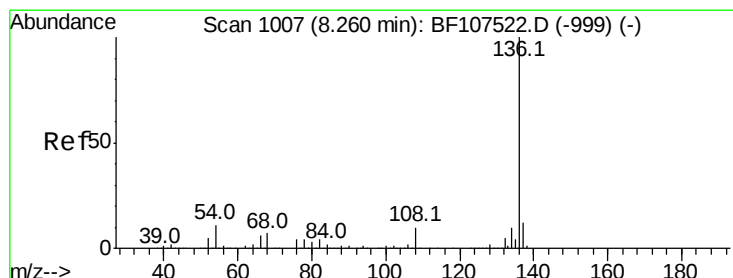
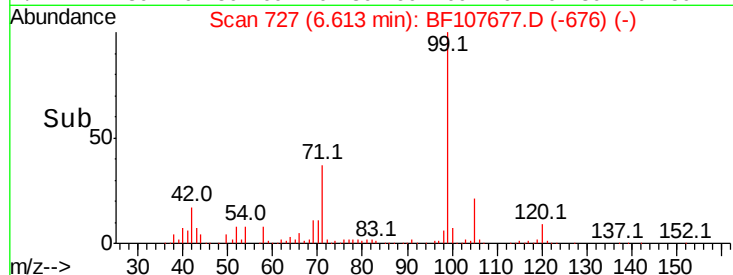
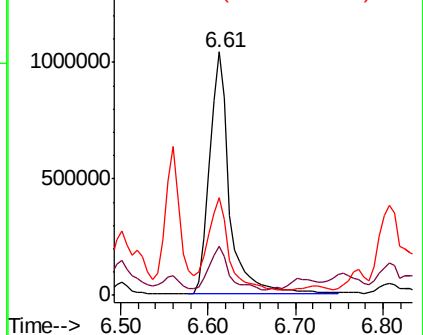
7/26/2018 2:02:15 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.04 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Tgt Ion:136 Resp: 244087

Ion Ratio Lower Upper

136 100

137 32.2 8.9 13.3#

54 54.5 6.6 9.8#

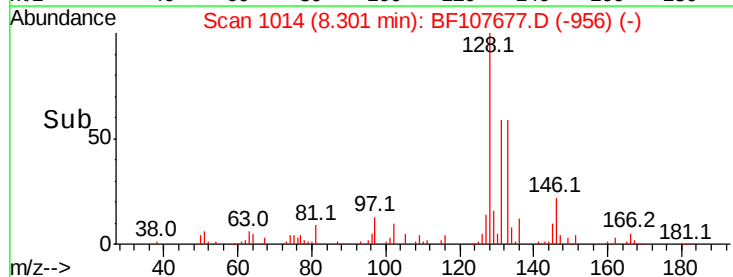
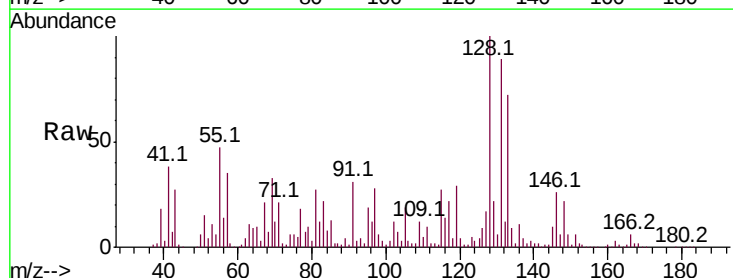
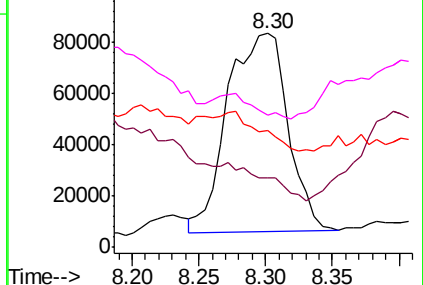
68 61.9 5.0 7.4#

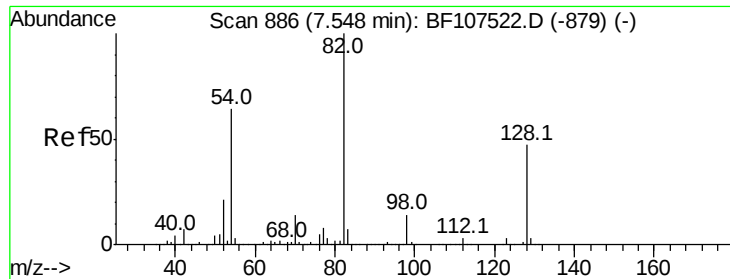
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





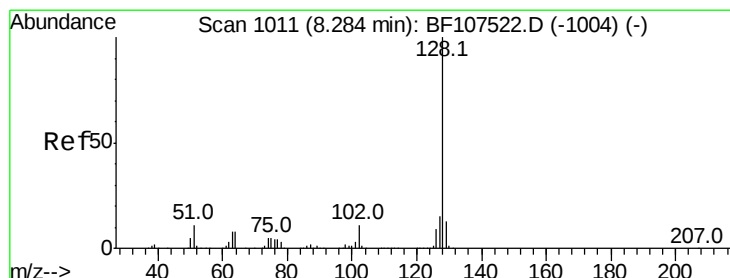
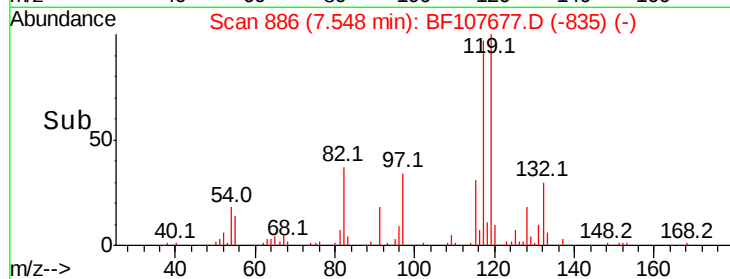
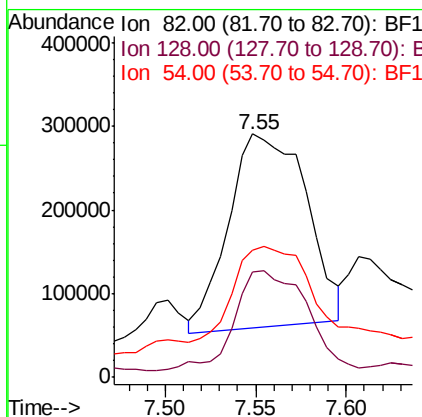
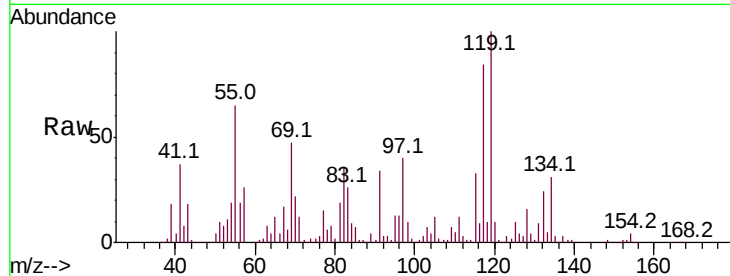
#23
Nitrobenzene-d5
Concen: 190.996 ng
RT: 7.55 min Scan# 886
Delta R.T. 0.00 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion	Ratio	Resp	Lower	Upper
82	100	690788		
128	43.2	36.1	54.1	
54	52.2	41.4	62.2	

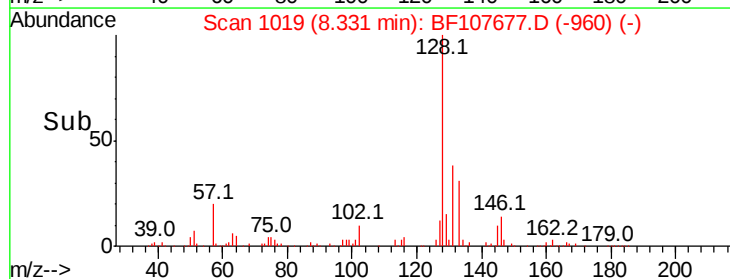
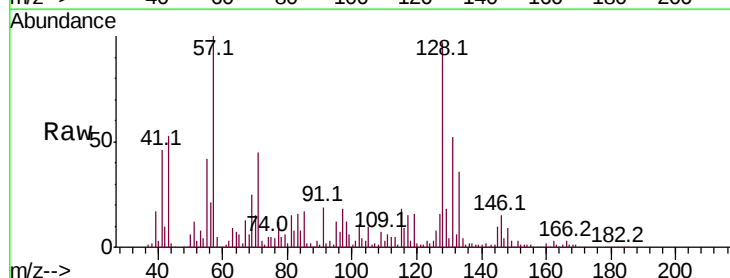
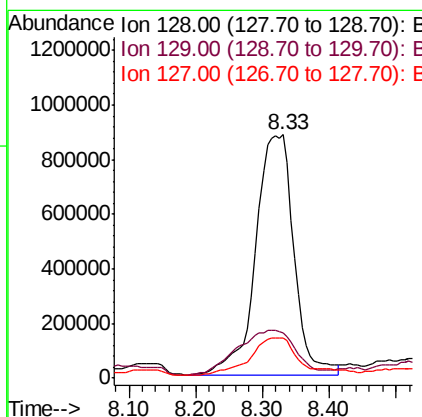
Manual Integrations
APPROVED

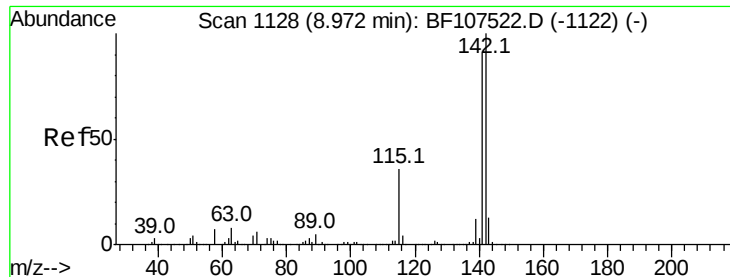
Sohil
7/26/2018 2:02:15 PM



#31
Naphthalene
Concen: 326.481 ng
RT: 8.33 min Scan# 1019
Delta R.T. 0.05 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	3504293		
129	18.4	8.8	13.2#	
127	16.3	10.9	16.3	





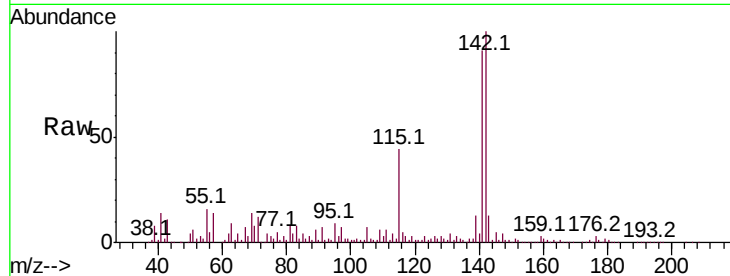
#37
2-Methylnaphthalene
Concen: 786.466 ng
RT: 9.04 min Scan# 1140
Delta R.T. 0.07 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.8	106.2
115	44.4	26.1	39.1

Manual Integrations
APPROVED

Sohil
7/26/2018 2:02:15 PM

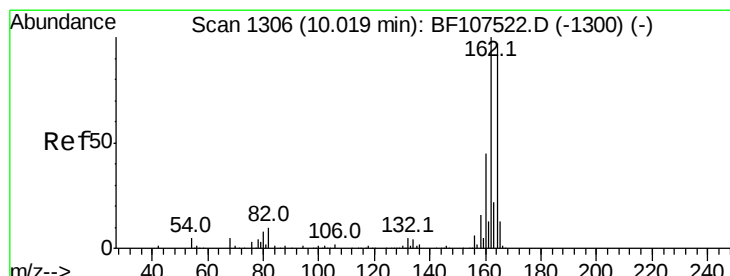
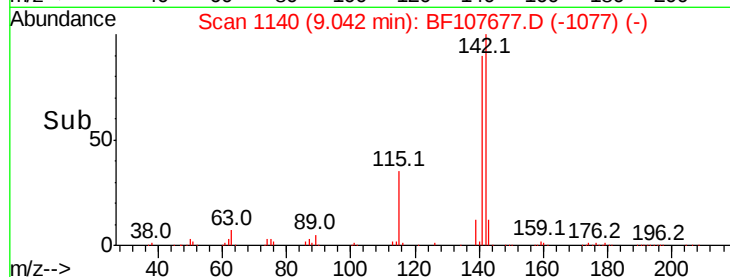
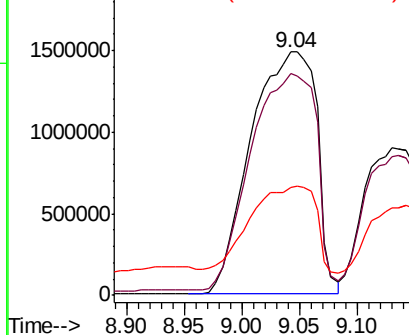


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.09 min Scan# 1318
Delta R.T. 0.07 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

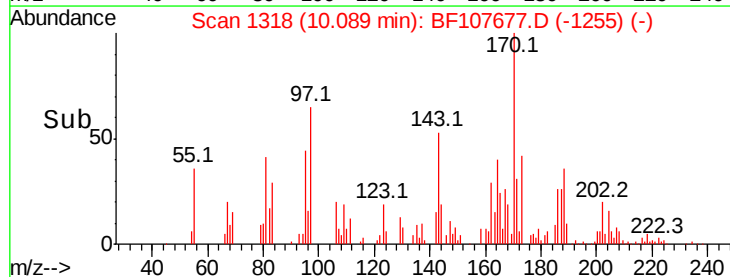
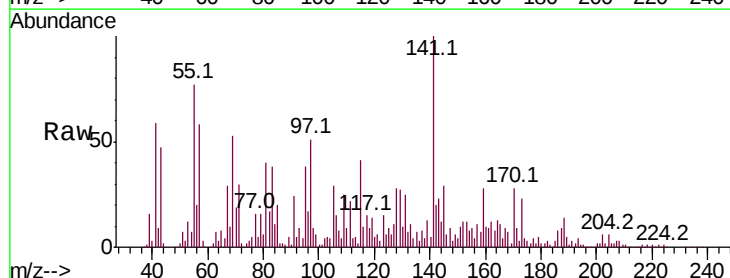
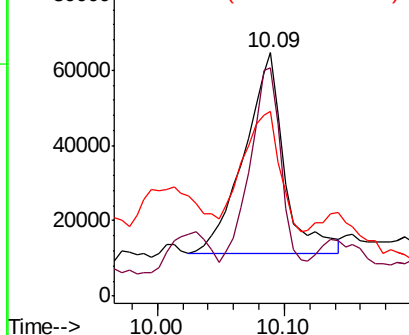
Tgt Ion	Ratio	Lower	Upper
164	100		
162	93.6	86.1	129.1
160	75.9	38.3	57.5

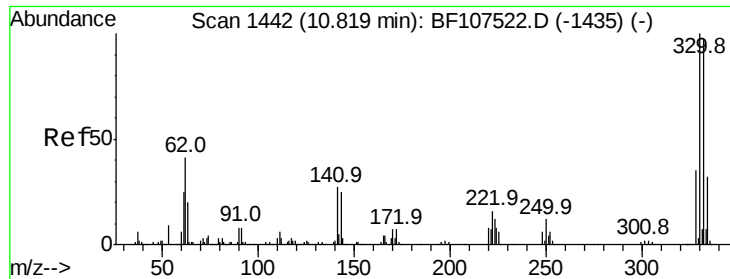
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





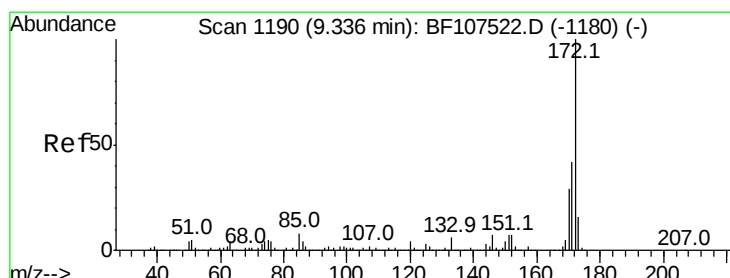
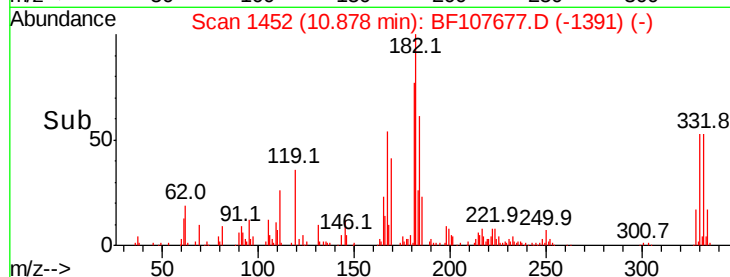
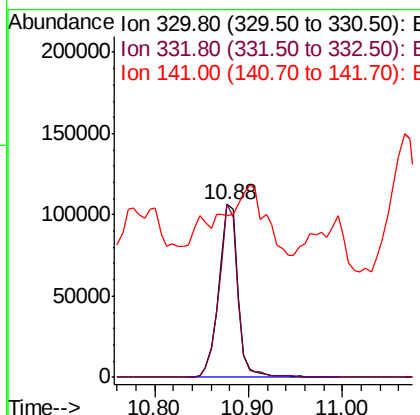
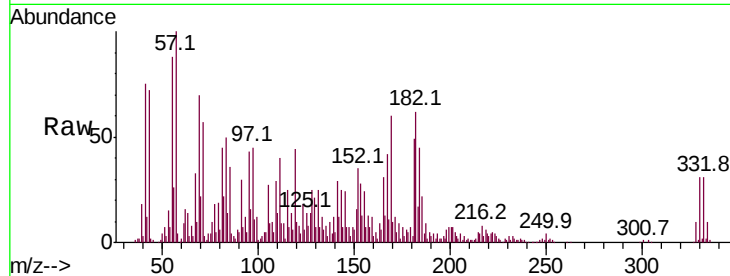
#41
 2,4,6-Tribromophenol
 Concen: 114.084 ng
 RT: 10.88 min Scan# 1452
 Delta R.T. 0.06 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Instrument :
 BNA_F
 ClientSampled :
 WASTE

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.7	77.0	115.6	
141	0.0	29.9	44.9	

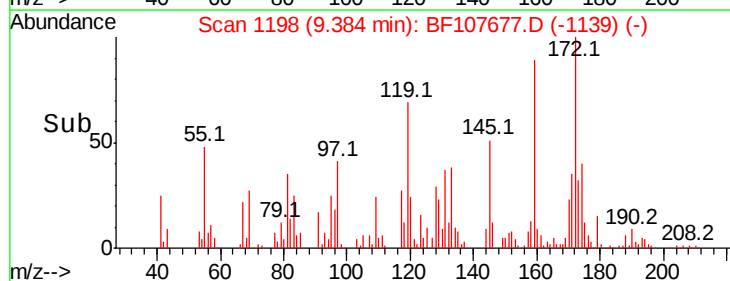
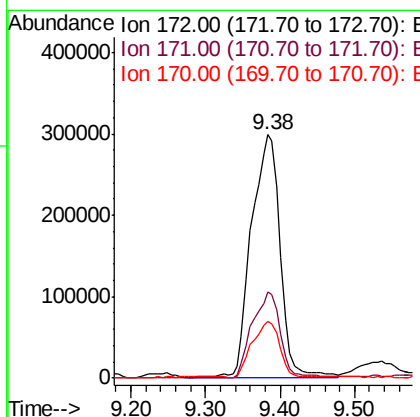
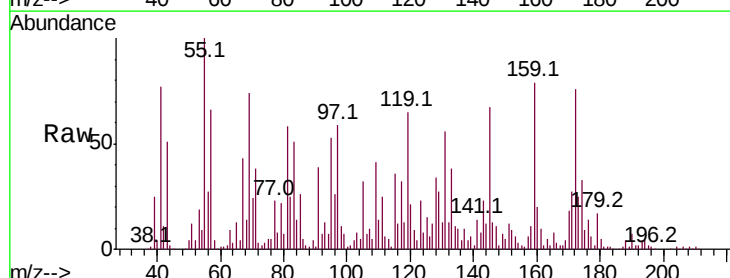
Manual Integrations
 APPROVED

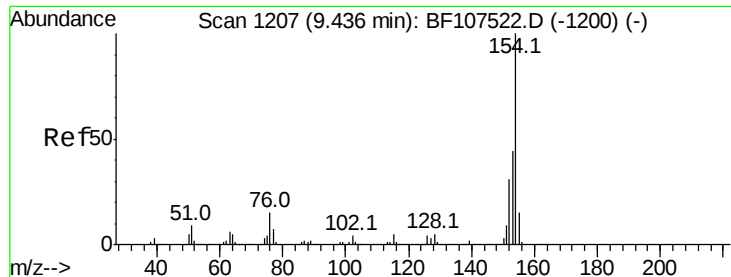
Sohil
 7/26/2018 2:02:15 PM



#44
 2-Fluorobiphenyl
 Concen: 135.086 ng
 RT: 9.38 min Scan# 1198
 Delta R.T. 0.05 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.7	44.5	
170	23.1	19.6	29.4	





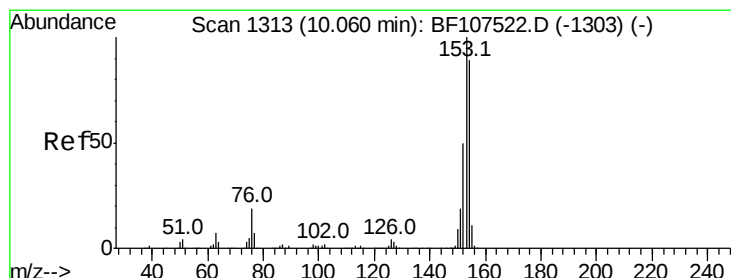
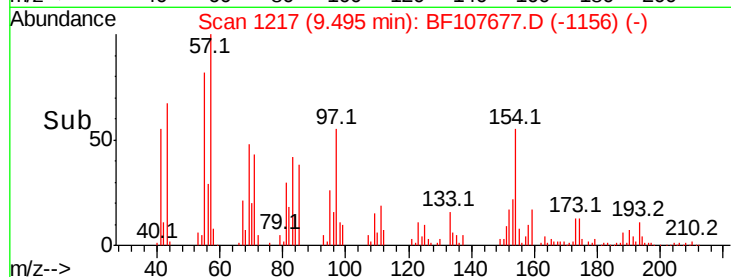
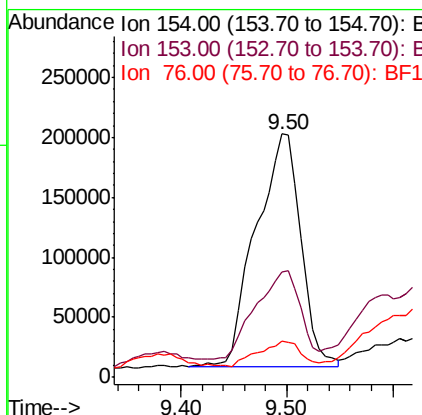
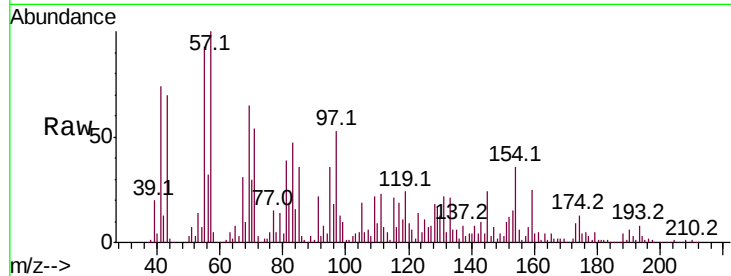
#45
 1,1'-Biphenyl
 Concen: 55.320 ng
 RT: 9.50 min Scan# 1217
 Delta R.T. 0.06 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Instrument :
 BNA_F
 ClientSampled :
 WASTE

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	43.3	21.3	61.3	
76	15.0	0.0	34.0	

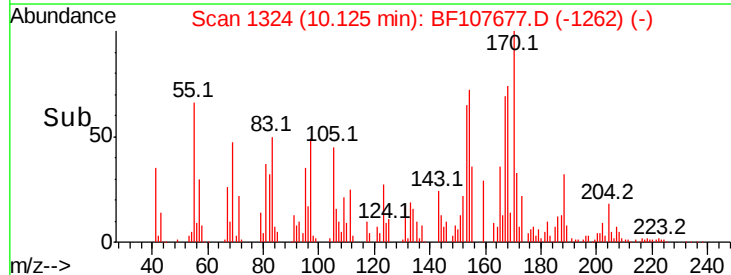
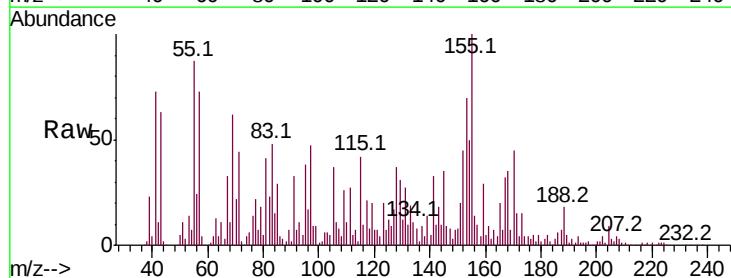
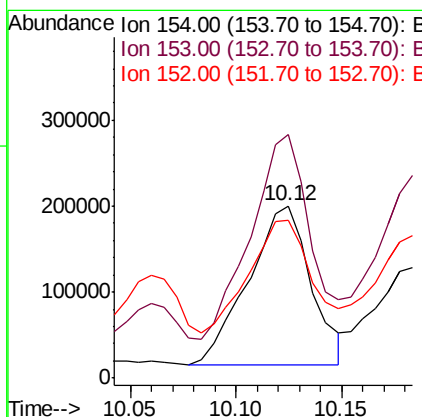
Manual Integrations
 APPROVED

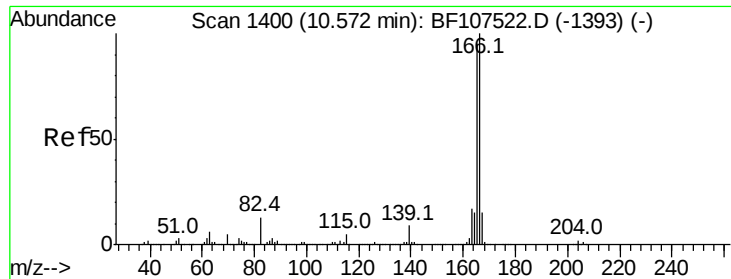
Sohil
 7/26/2018 2:02:15 PM



#51
 Acenaphthene
 Concen: 51.109 ng
 RT: 10.12 min Scan# 1324
 Delta R.T. 0.06 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	141.5	91.2	136.8#	
152	91.4	43.8	65.8#	





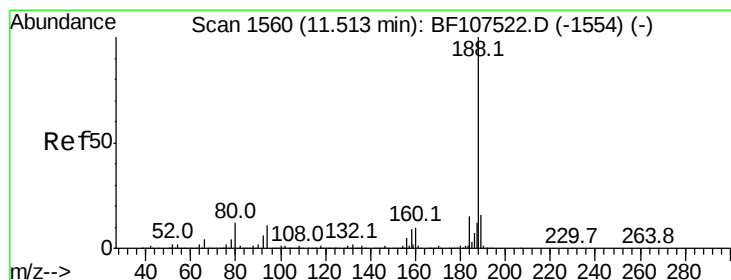
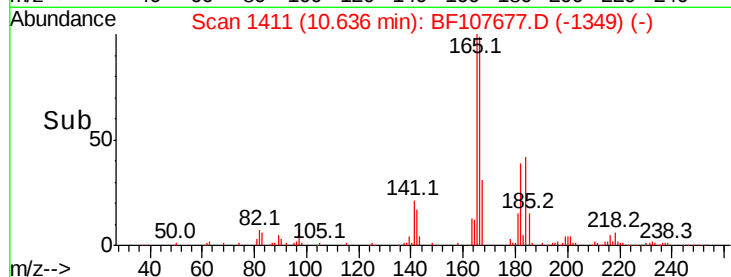
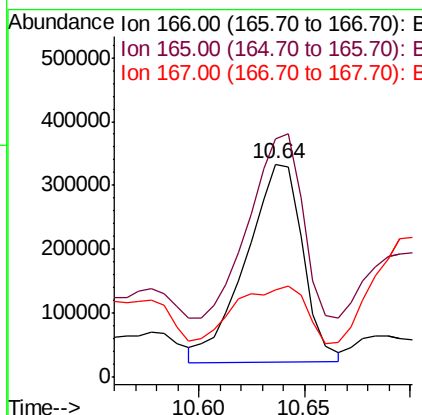
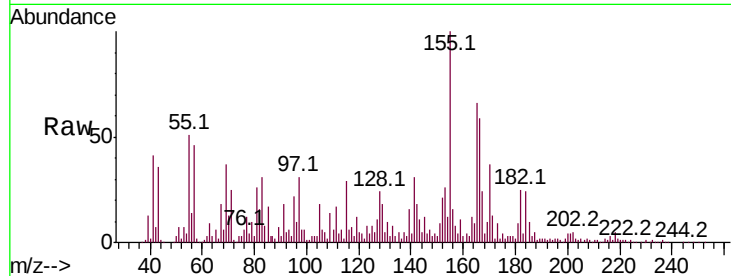
#57
Fluorene
 Concen: 74.477 ng
 RT: 10.64 min Scan# 1411
 Delta R.T. 0.07 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Instrument :
 BNA_F
 ClientSampled :
 WASTE

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	111.7	79.8	119.8	
167	41.2	10.6	16.0	

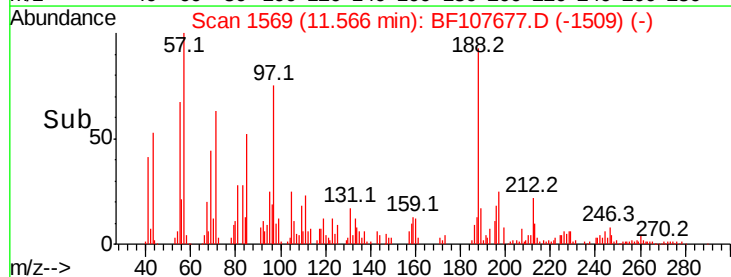
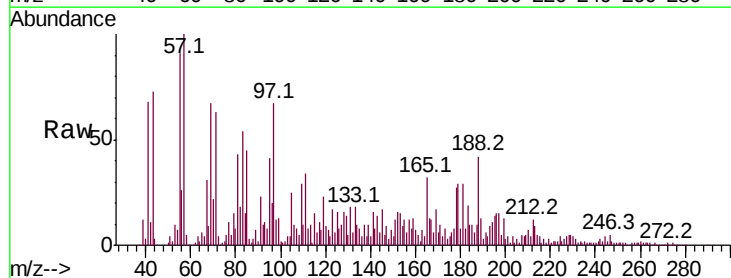
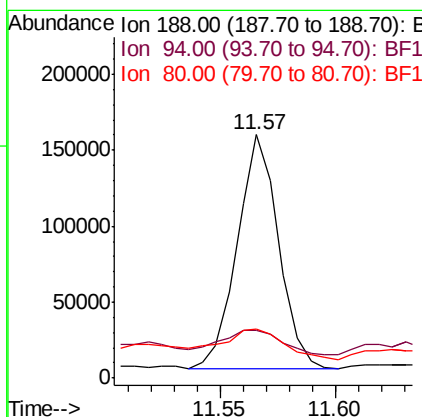
Manual Integrations
 APPROVED

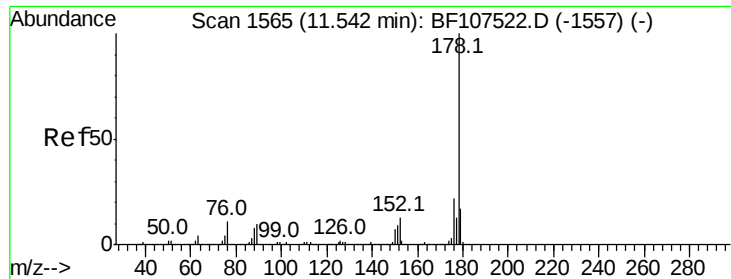
Sohil
 7/26/2018 2:02:15 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.57 min Scan# 1569
 Delta R.T. 0.05 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	19.7	8.5	12.7	
80	20.2	9.2	13.8	





#70

Phenanthrene

Concen: 249.635 ng

RT: 11.60 min Scan# 1575

Delta R.T. 0.06 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Instrument :

BNA_F

ClientSampleId :

WASTE

Tot Ion:178 Resp: 2331012

Ion Ratio Lower Upper

178 100

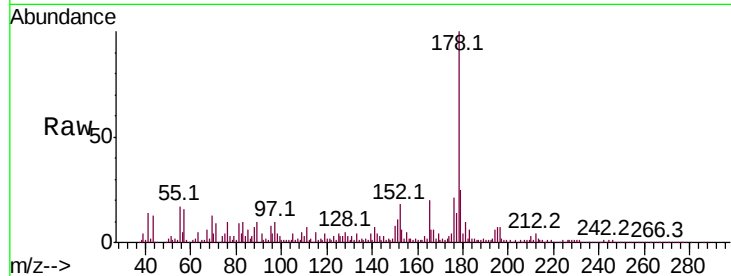
176 20.7 15.8 23.8

179 25.0 13.0 19.6#

Manual Integrations
APPROVED

Sohil

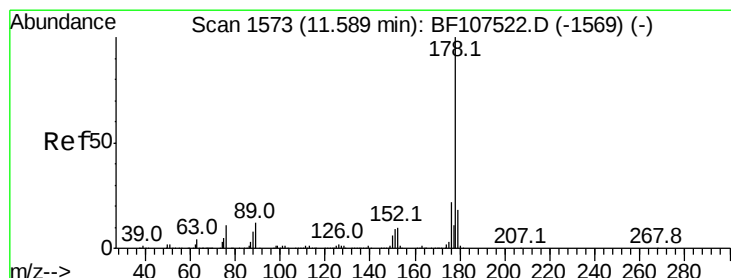
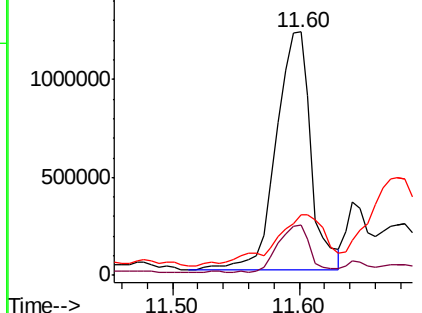
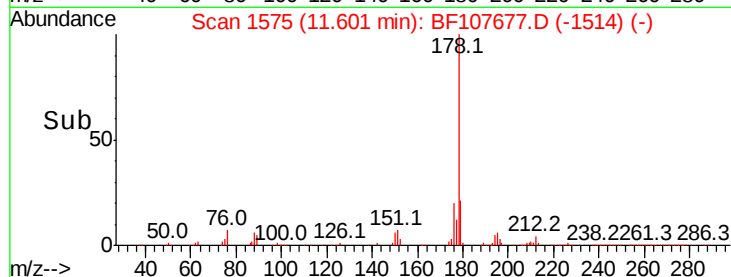
7/26/2018 2:02:15 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 39.030 ng

RT: 11.64 min Scan# 1582

Delta R.T. 0.05 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

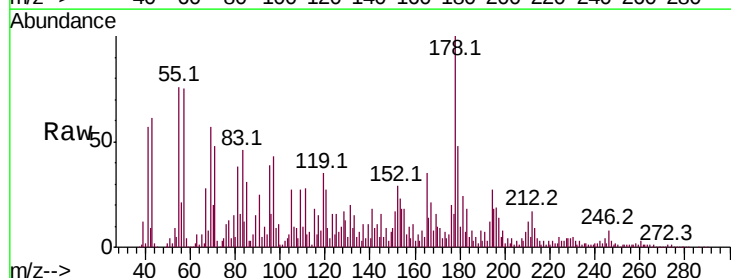
Tgt Ion:178 Resp: 366948

Ion Ratio Lower Upper

178 100

176 20.4 15.4 23.2

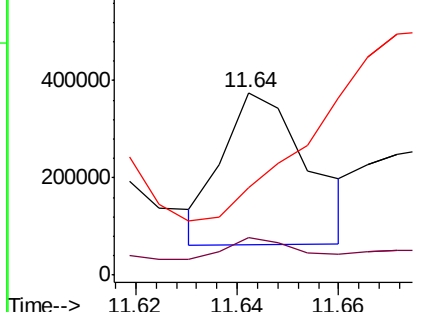
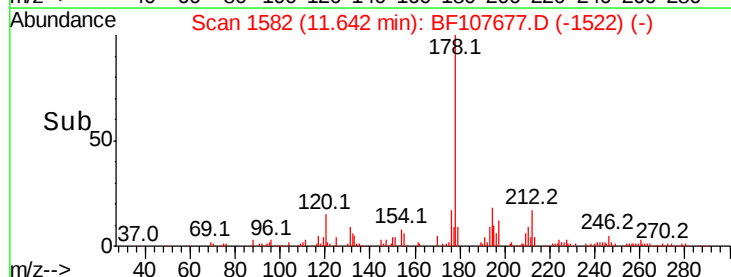
179 48.2 12.6 19.0#

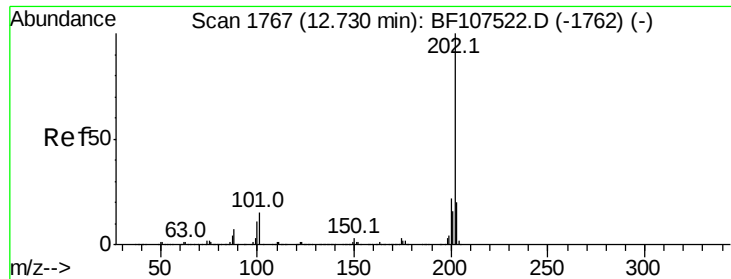


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.514 ng

RT: 12.77 min Scan# 1774

Delta R.T. 0.04 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Instrument :

BNA_F

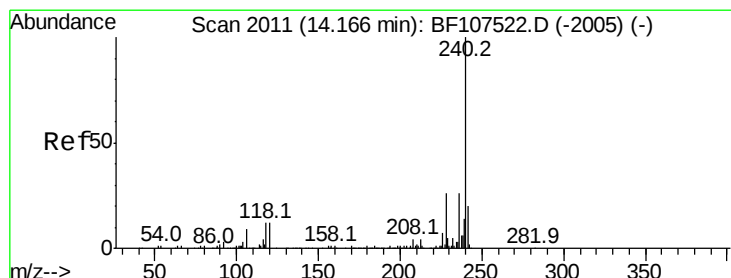
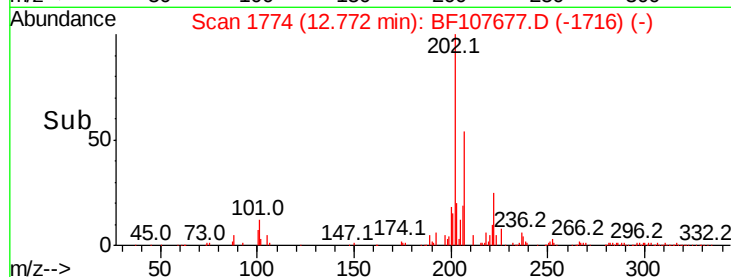
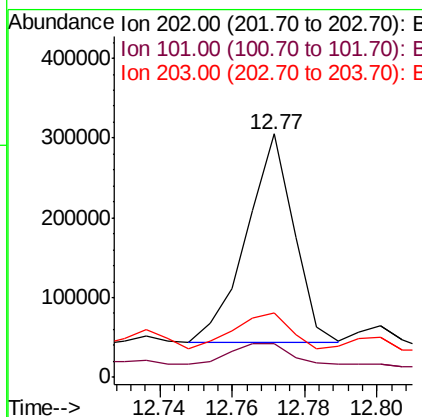
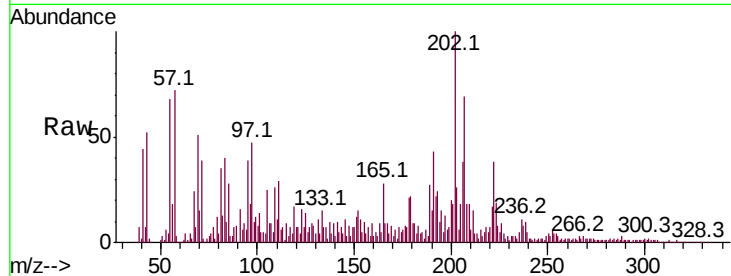
ClientSampleId :

WASTE

Tot Ion:	202	Resp:	235614
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	34.1
203	26.4	0.0	38.1

Manual Integrations
APPROVED

Sohil
7/26/2018 2:02:15 PM



#75

Chrysene-d12

Concen: 20.000 ng

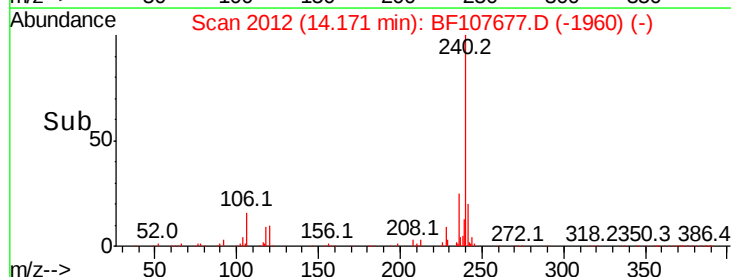
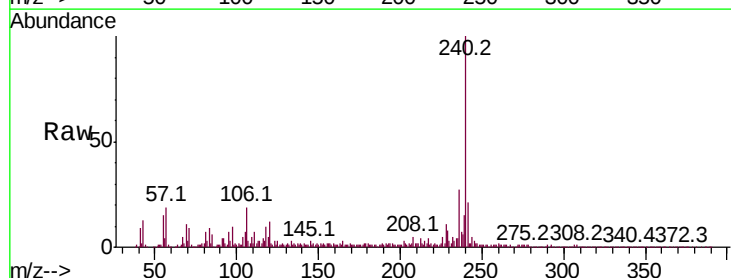
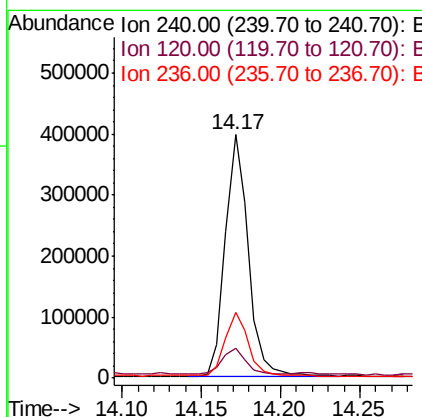
RT: 14.17 min Scan# 2012

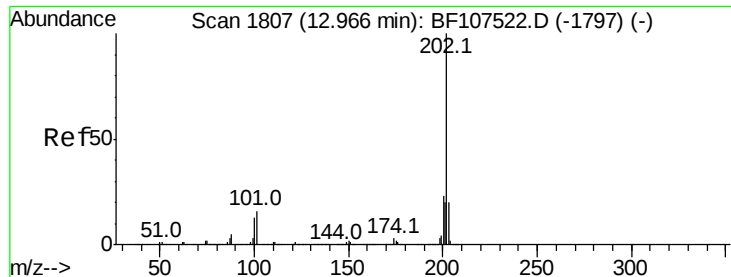
Delta R.T. 0.01 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Tgt Ion:	240	Resp:	401046
Ion Ratio	Lower	Upper	
240	100		
120	12.0	9.5	14.3
236	26.8	20.7	31.1





#77

Pvrene

Concen: 27.832 ng/mL

RT: 13.00 min Scan# 1813

Delta R.T. 0.04 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Instrument :

BNA_F

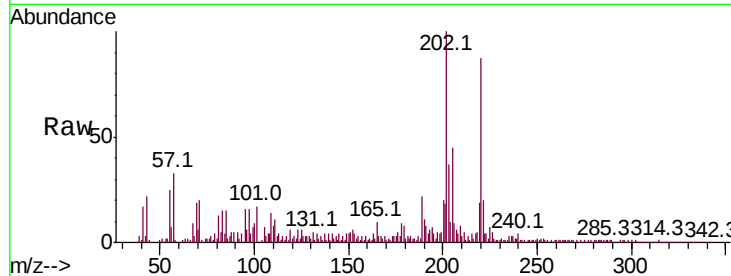
ClientSampleId :

WASTE

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	19.6	17.4	26.2	
203	36.7	14.3	21.5	

Manual Integrations
APPROVED

Sohil
7/26/2018 2:02:15 PM

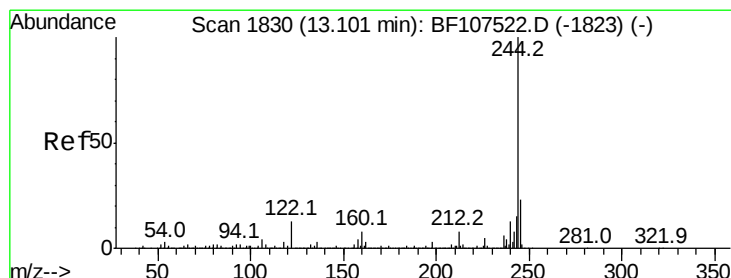
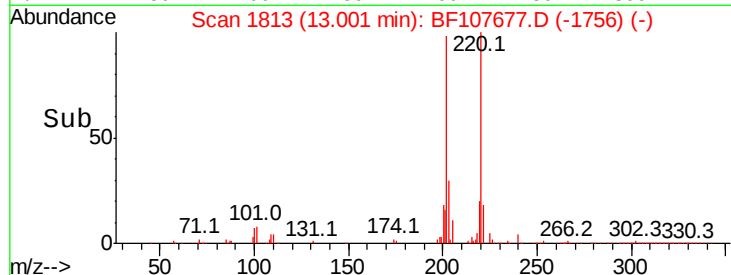
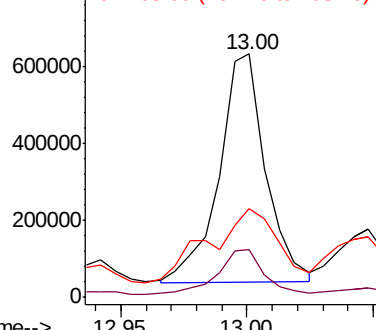


Abundance

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: 63.437 ng/mL

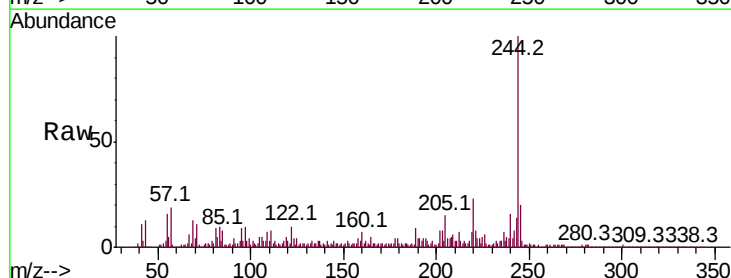
RT: 13.12 min Scan# 1834

Delta R.T. 0.02 min

Lab File: BF107677.D

Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.3	5.4	8.0	
122	10.1	11.0	16.4	

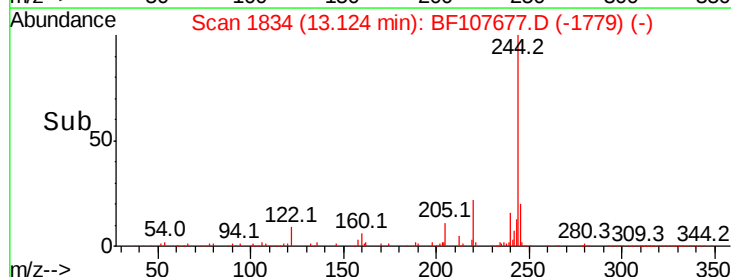
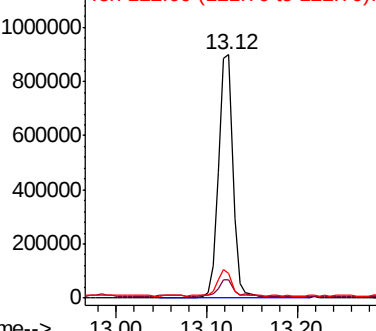


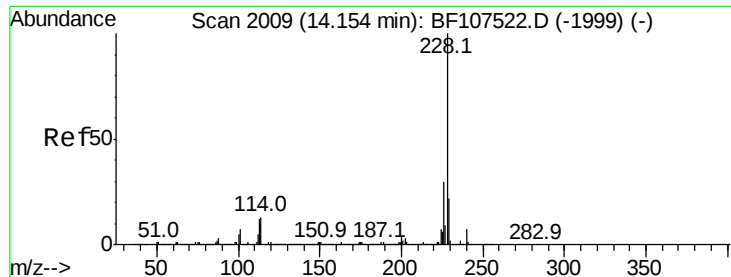
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





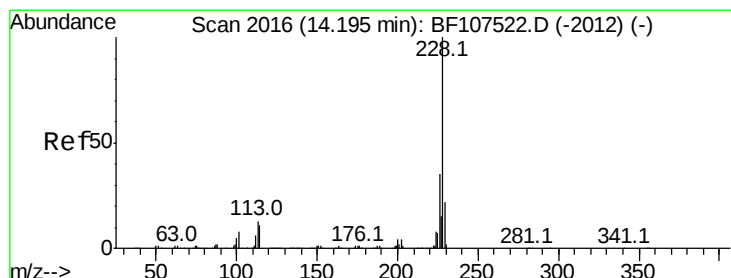
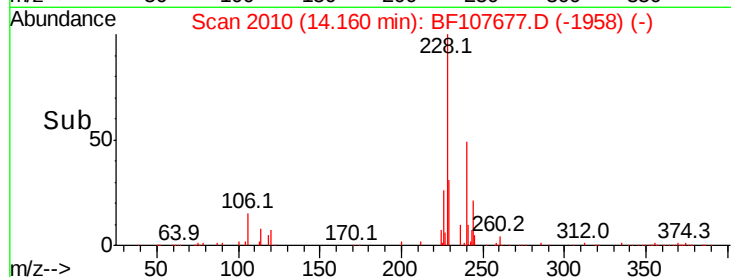
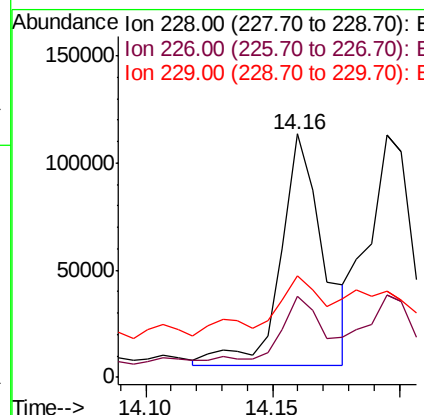
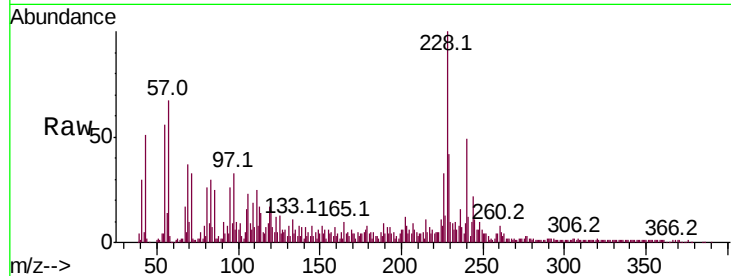
#80
Benzo(a)anthracene
Concen: 5.401 ng
RT: 14.16 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.5	22.6	33.8
229	41.5	15.8	23.6

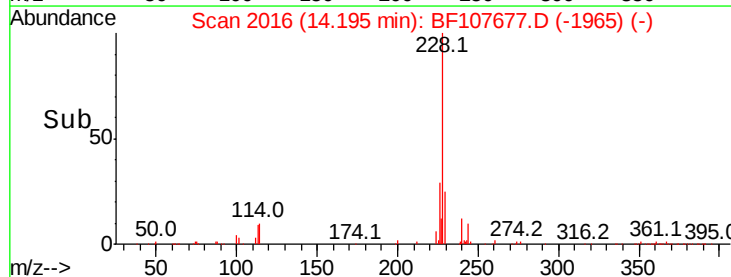
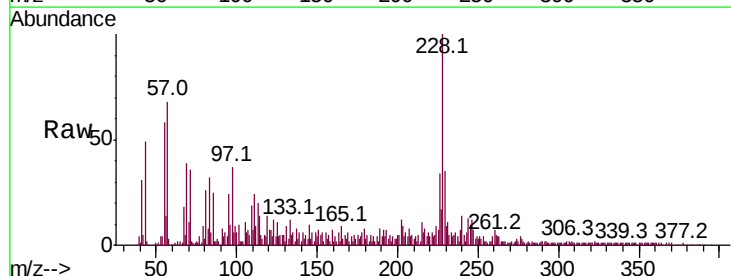
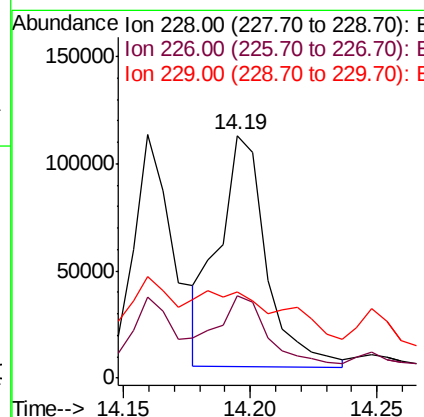
Manual Integrations
APPROVED

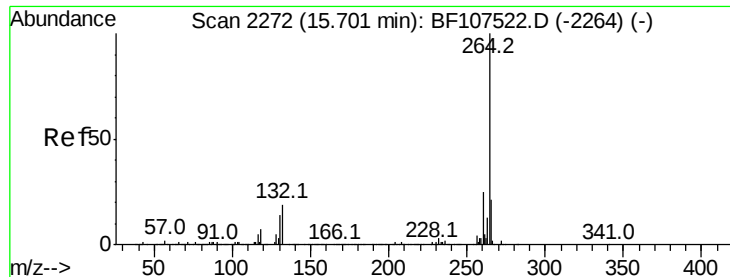
Sohil
7/26/2018 2:02:15 PM



#82
Chrysene
Concen: 6.248 ng
RT: 14.19 min Scan# 2016
Delta R.T. 0.00 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.9	25.0	37.6
229	35.4	16.2	24.4





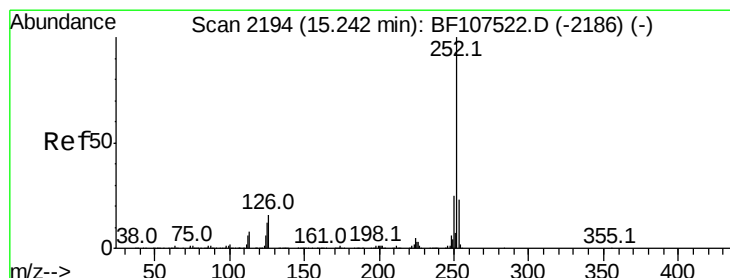
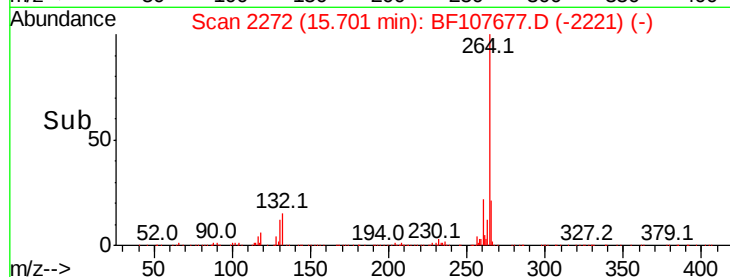
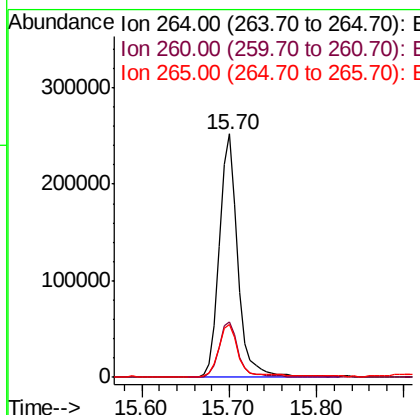
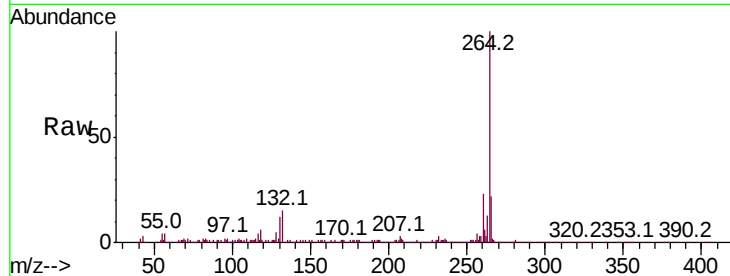
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2272
Delta R.T. 0.00 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Instrument :
BNA_F
ClientSampleId :
WASTE

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.2	28.8
265	21.7	17.5	26.3

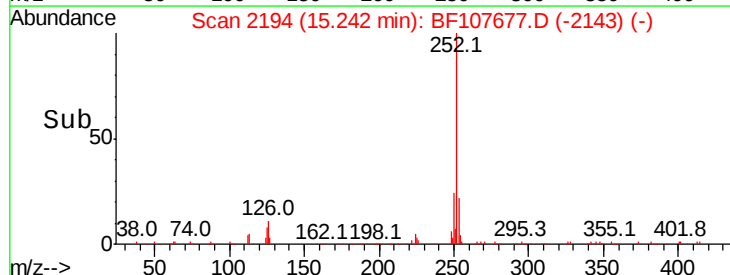
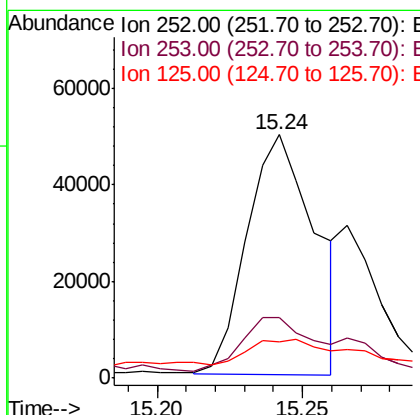
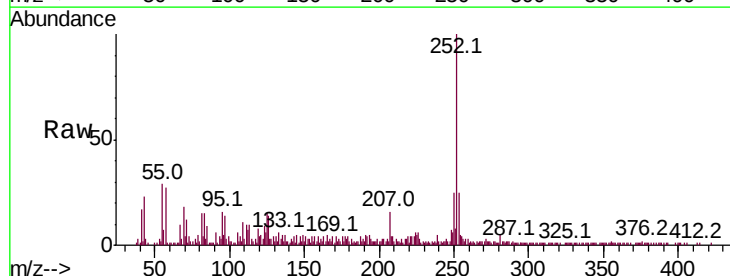
Manual Integrations
APPROVED

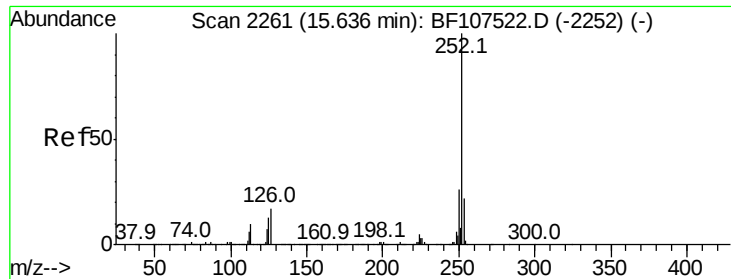
Sohil
7/26/2018 2:02:15 PM



#87
Benzo(b)fluoranthene
Concen: 3.988 ng m
RT: 15.24 min Scan# 2194
Delta R.T. 0.00 min
Lab File: BF107677.D
Acq: 26 Jul 2018 1:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.6
125	15.1	9.0	13.6





#89
 Benzo(a)pyrene
 Concen: 3.095 ng
 RT: 15.63 min Scan# 2260
 Delta R.T. -0.01 min
 Lab File: BF107677.D
 Acq: 26 Jul 2018 1:27

Instrument :
 BNA_F
 ClientSampleId :
 WASTE

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.1	25.7
125	15.8	9.8	14.6

Manual Integrations
 APPROVED

Sohil
 7/26/2018 2:02:15 PM

