

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
 Data File : BF098165.D
 Acq On : 30 Aug 2017 19:39
 Operator : SJ/JU
 Sample : I4979-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:12:09 PM

Quant Time: Aug 31 12:06:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	115188	20.00	ng	-0.02
21) Naphthalene-d8	8.03	136	214079	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	158988	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	209353	20.00	ng	0.00
75) Chrysene-d12	13.89	240	221031	20.00	ng	-0.01
86) Perylene-d12	15.29	264	245576	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	967406m	127.75	ng	-0.01
7) Phenol-d6	6.38	99	1263091m	122.76	ng	0.00
23) Nitrobenzene-d5	7.30	82	524397	133.07	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	112446	81.51	ng	0.02
44) 2-Fluorobiphenyl	9.10	172	698424	64.54	ng	0.00
78) Terphenyl-d14	12.84	244	421888	39.80	ng	-0.01
Target Compounds						
20) 3+4-Methylphenols	7.16	107	106889	12.435	ng	Qvalue # 65
31) Naphthalene	8.07	128	10147120	913.011	ng	97
37) 2-Methylnaphthalene	8.77	142	8104753	1189.453	ng	# 95
45) 1,1'-Biphenyl	9.22	154	3114705	214.834	ng	97
49) Dimethylphthalate	9.52	163	126917	10.921	ng	# 93
51) Acenaphthene	9.83	154	3312940	312.260	ng	100
54) Dibenzofuran	10.03	168	3824288	268.952	ng	95
57) Fluorene	10.37	166	3117619	283.587	ng	98
70) Phenanthrene	11.33	178	4983844m	446.748	ng	
71) Anthracene	11.37	178	1819037	160.764	ng	97
72) Carbazole	11.50	167	161842	15.069	ng	# 82
74) Fluoranthene	12.49	202	2132202	183.115	ng	99
77) Pvrene	12.72	202	1911949	105.762	ng	97
80) Benzo(a)anthracene	13.88	228	408350	30.825	ng	96
82) Chrysene	13.92	228	327171	24.827	ng	# 96
83) Bis(2-ethylhexyl)phthalate	13.87	149	19668	2.561	ng	# 84
85) Indeno(1,2,3-cd)pyrene	16.65	276	61827m	6.378	ng	
87) Benzo(b)fluoranthene	14.89	252	233867m	15.108	ng	
88) Benzo(k)fluoranthene	14.92	252	69784m	4.798	ng	
89) Benzo(a)pyrene	15.23	252	169402	12.362	ng	99
91) Benzo(a,h,i)perylene	17.06	276	57757	4.962	ng	97

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

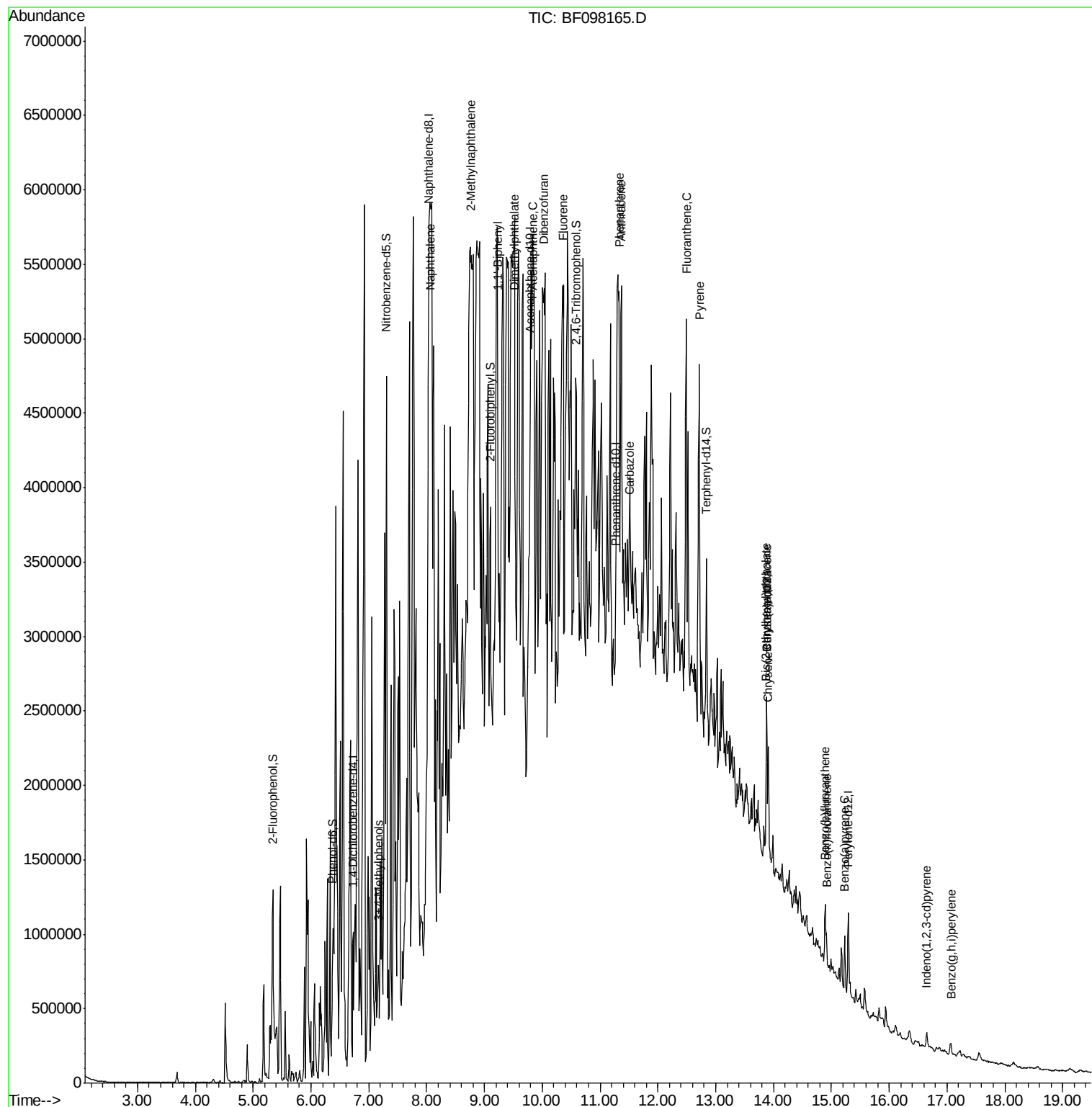
Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
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ALS Vial : 8 Sample Multiplier: 1

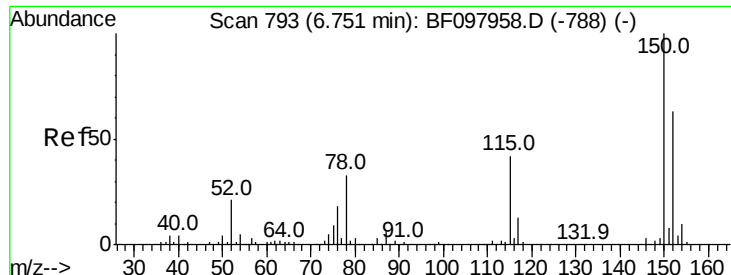
Instrument :
BNA_F
ClientSampled :
TP-1

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#1

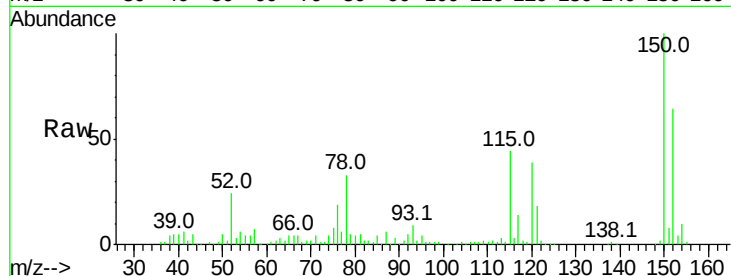
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampled :
TP-1

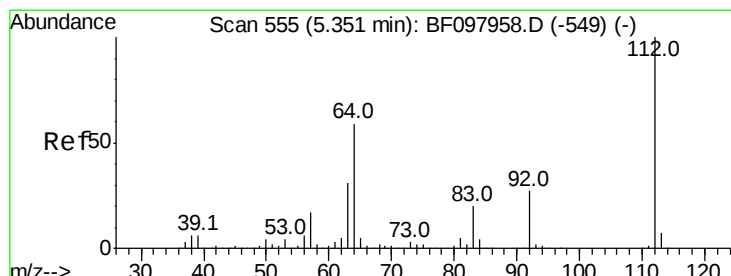
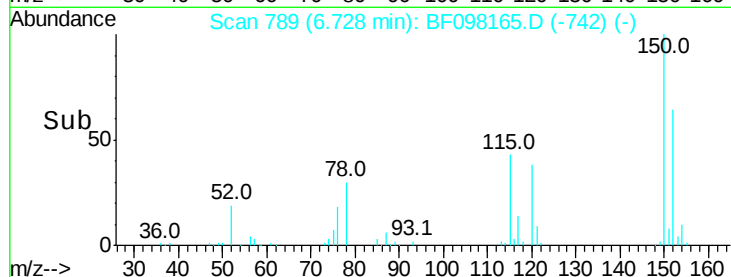
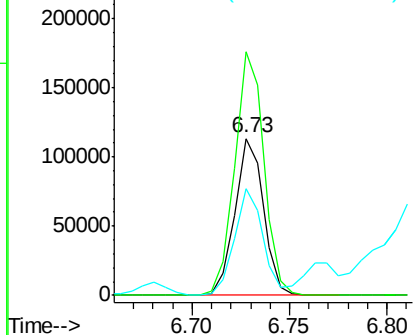
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	126.2	189.2
115	68.0	52.2	78.2

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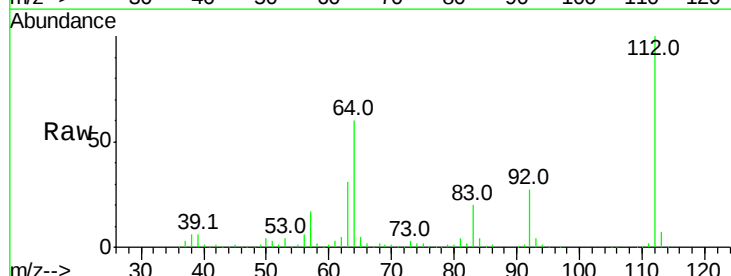
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



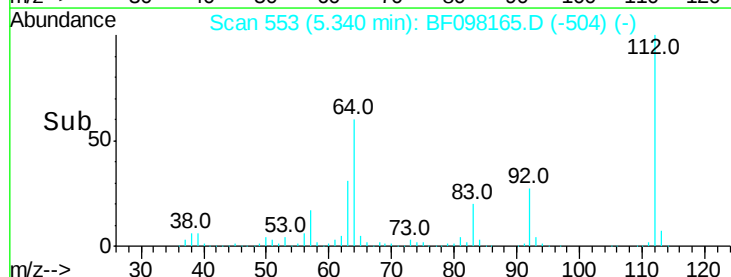
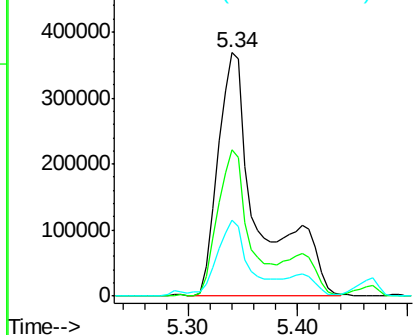
#5

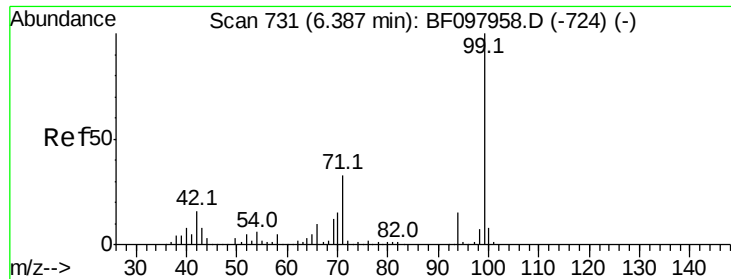
2-Fluorophenol
Concen: 127.747 ng m
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.2	46.0	69.0
63	31.2	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 122.758 ng/mL

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

ClientSampled :

TP-1

Tot Ion: 99 Resp: 1263091

Ion Ratio Lower Upper

99 100

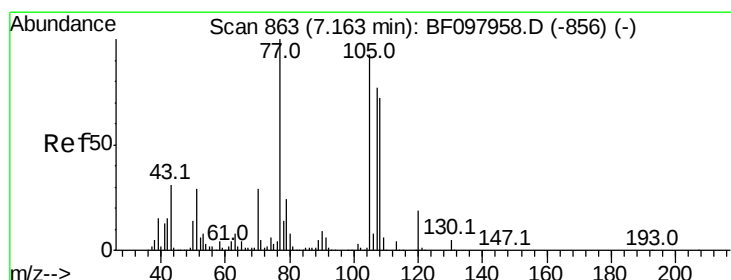
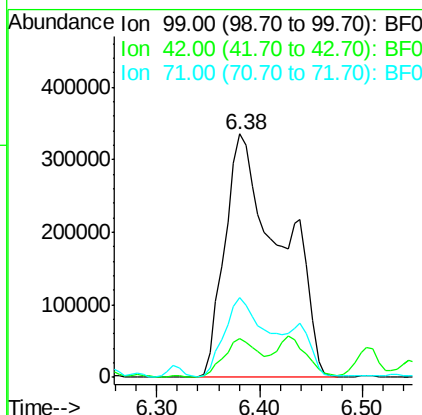
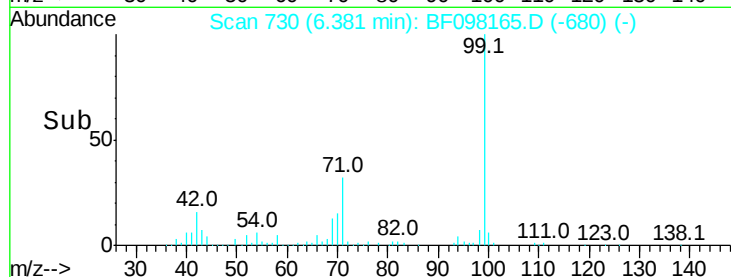
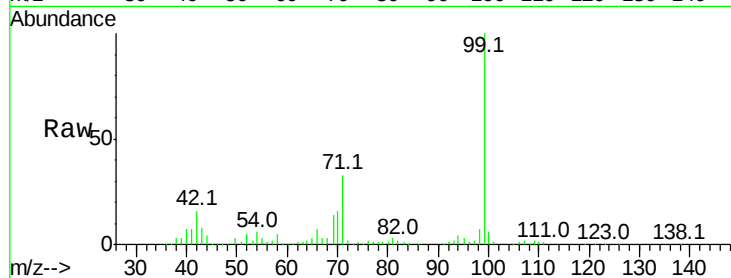
42 16.0 13.5 20.3

71 32.6 24.5 36.7

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#20

3+4-Methylphenols

Concen: 12.435 ng/mL

RT: 7.16 min Scan# 863

Delta R.T. 0.00 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion: 107 Resp: 106889

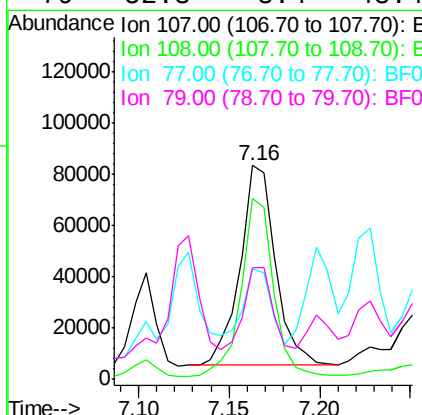
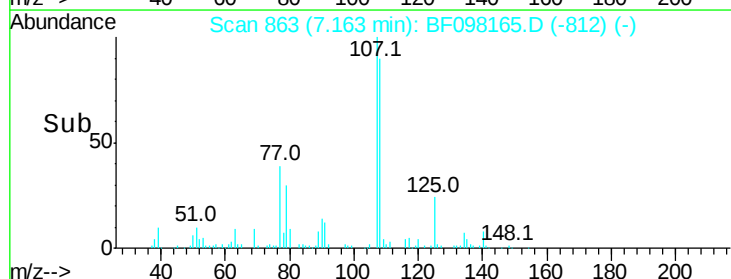
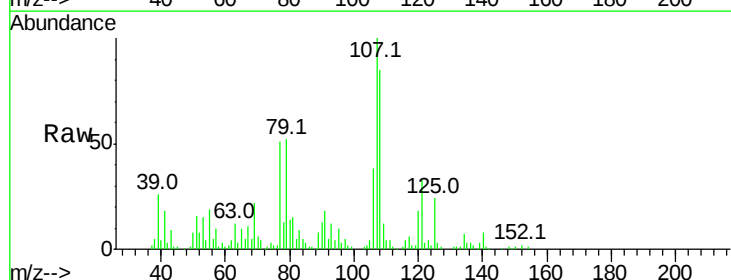
Ion Ratio Lower Upper

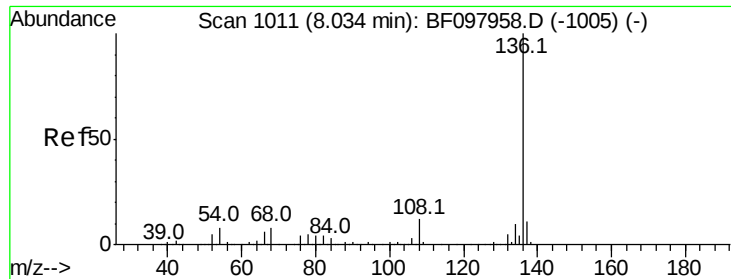
107 100

108 84.7 71.0 111.0

77 51.3 90.5 130.5#

79 52.3 8.4 48.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.03 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

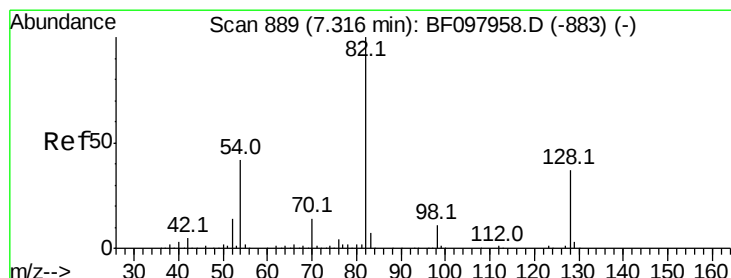
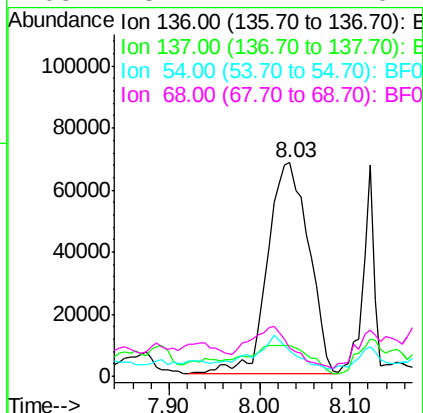
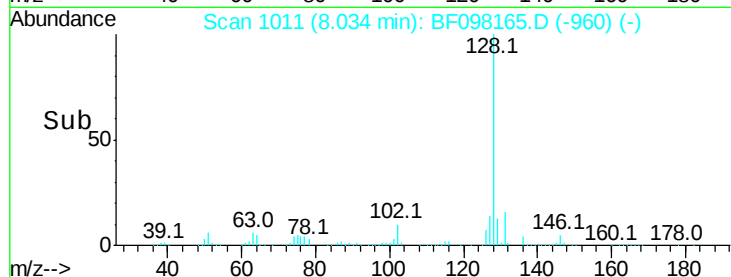
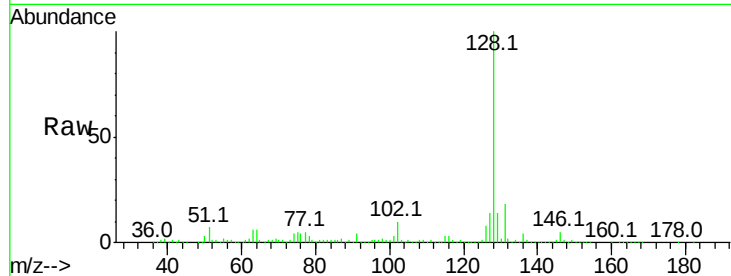
ClientSampled :

TP-1

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	14.5	8.5	12.7#	
54	12.2	4.9	7.3#	
68	13.2	4.1	6.1#	

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#23

Nitrobenzene-d5

Concen: 133.071 ng

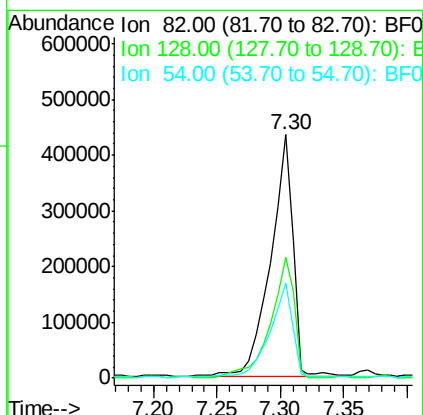
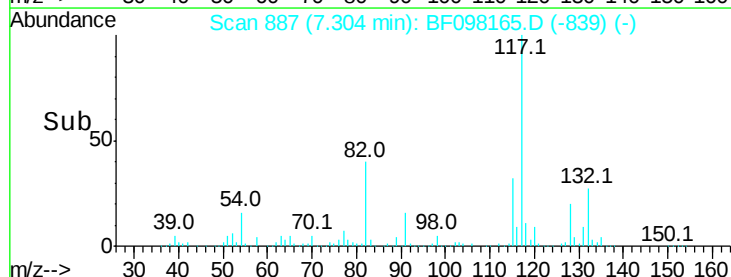
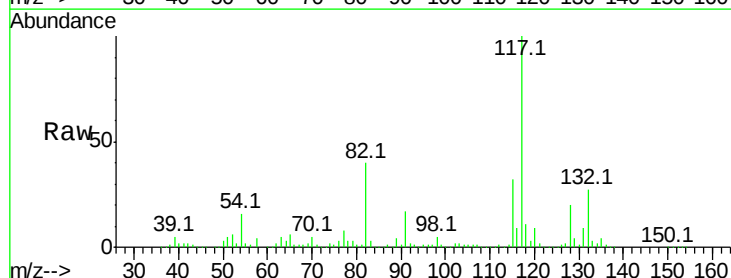
RT: 7.30 min Scan# 887

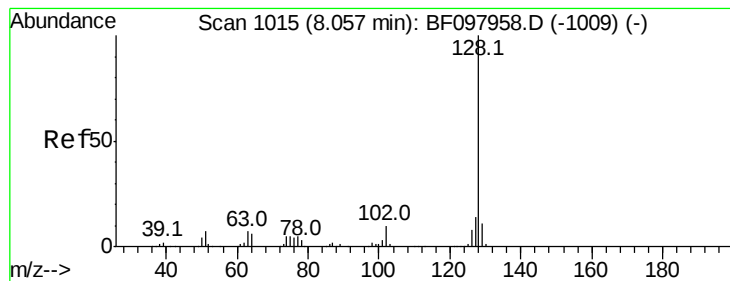
Delta R.T. -0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	49.3	34.0	51.0	
54	39.3	42.2	63.2#	





#31

Naphthalene

Concen: 913.011 ng

RT: 8.07 min Scan# 1018

Delta R.T. 0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

ClientSampleId :

TP-1

Tot Ion:128 Resp:10147120

Ion Ratio Lower Upper

128 100

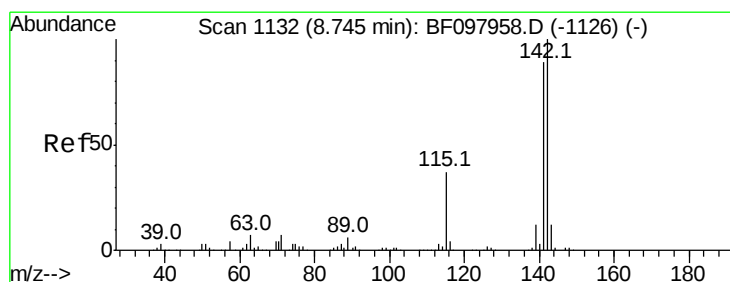
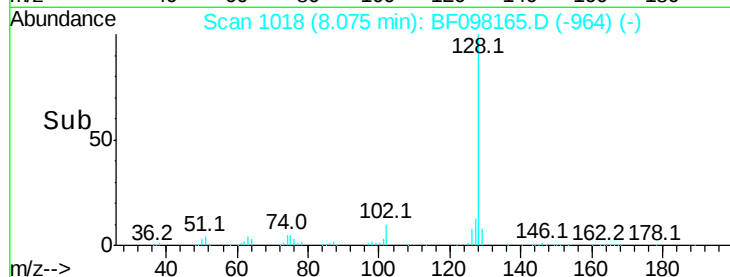
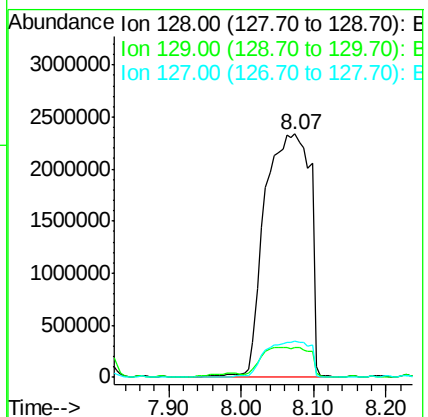
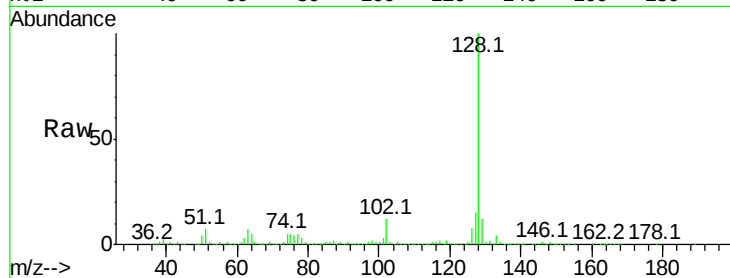
129 12.0 9.0 13.6

127 14.7 10.8 16.2

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#37

2-Methylnaphthalene

Concen: 1189.453 ng

RT: 8.77 min Scan# 1136

Delta R.T. 0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

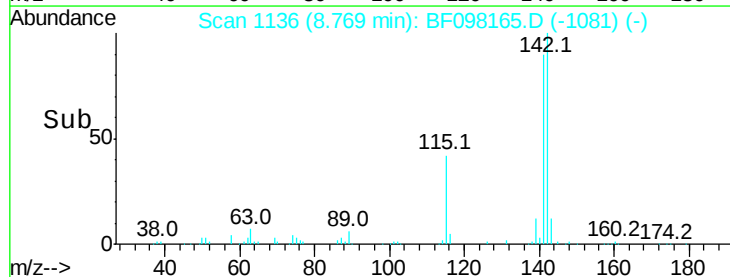
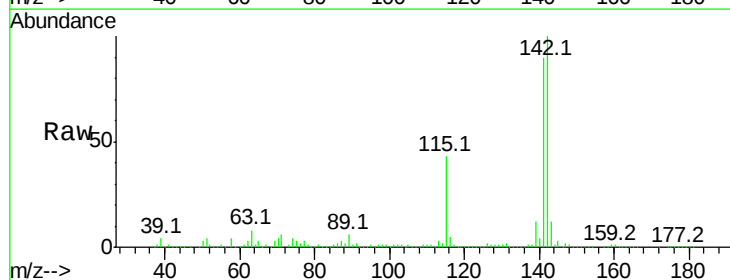
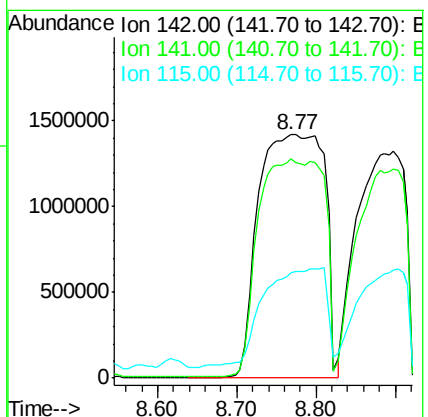
Tgt Ion:142 Resp: 8104753

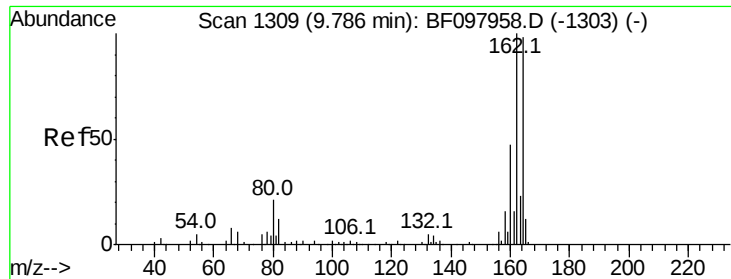
Ion Ratio Lower Upper

142 100

141 90.2 71.3 106.9

115 43.2 27.1 40.7#





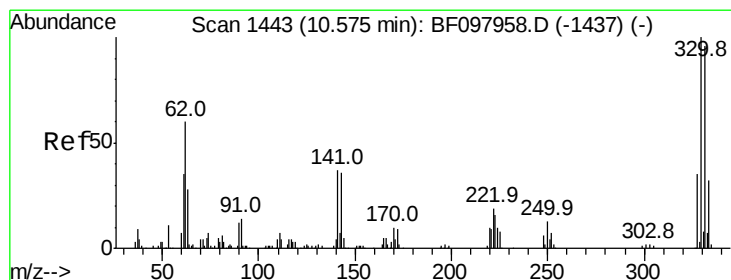
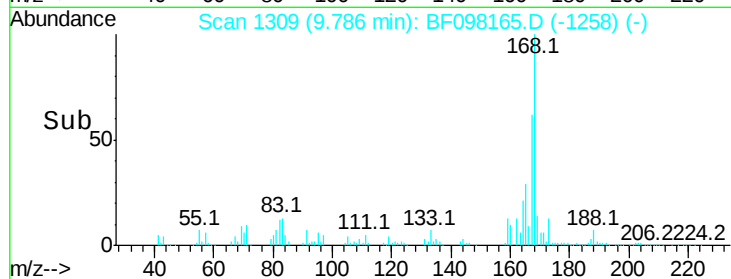
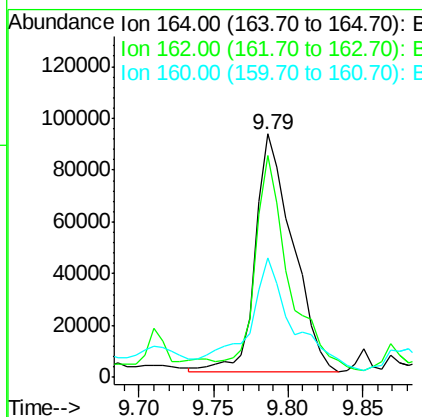
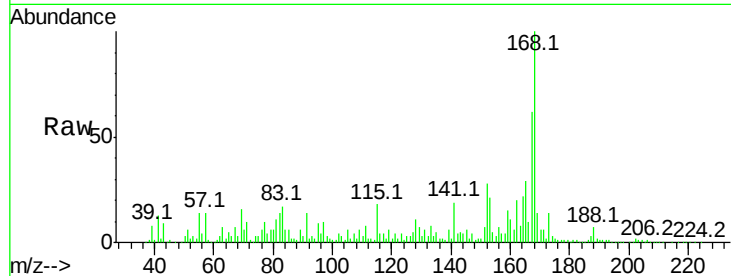
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.79 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: BF098165.D
 Acq: 30 Aug 2017 19:39

Instrument :
 BNA_F
 ClientSampled :
 TP-1

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	91.0	82.6	123.8	
160	49.2	36.2	54.2	

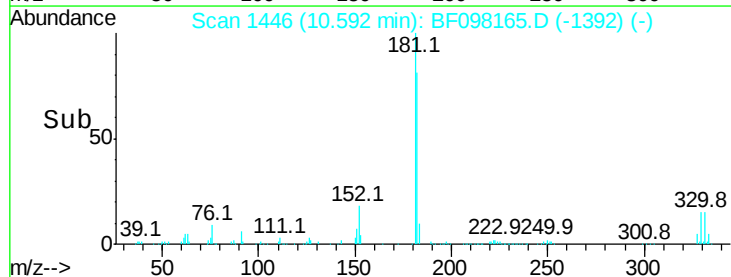
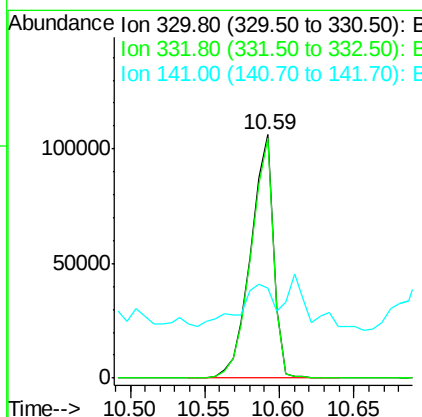
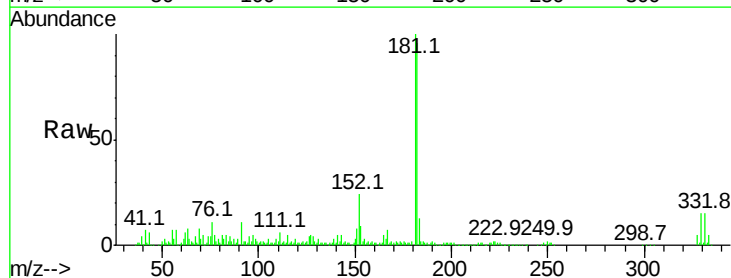
Manual Integrations
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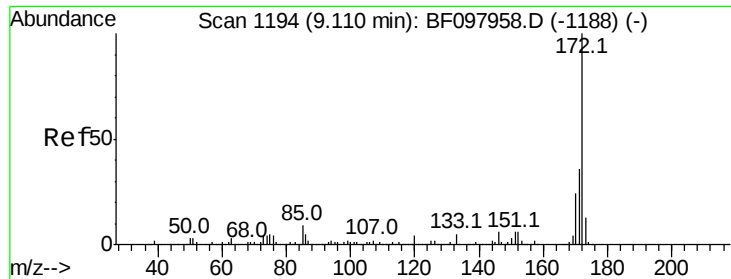
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#41
 2,4,6-Tribromophenol
 Concen: 81.513 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. 0.02 min
 Lab File: BF098165.D
 Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.9	76.6	115.0	
141	25.4	31.4	47.2	





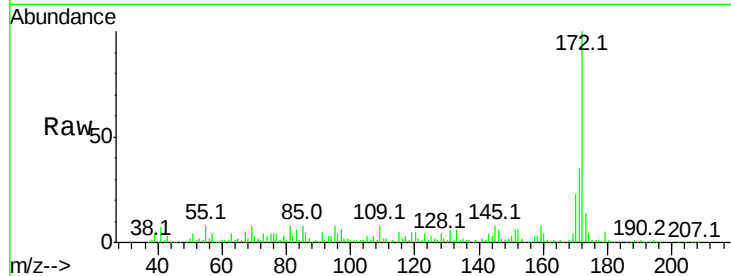
#44
2-Fluorobiphenyl
Concen: 64.541 ng
RT: 9.10 min Scan# 1193
Delta R.T. -0.01 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampled :
TP-1

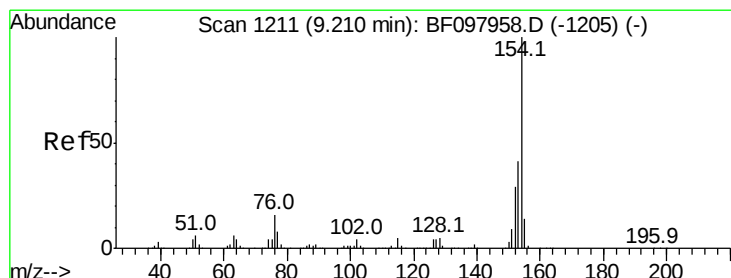
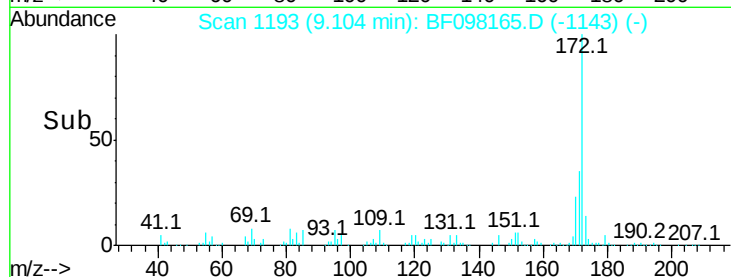
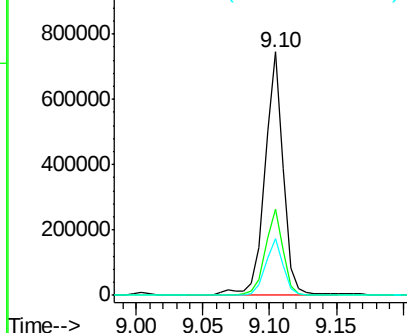
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	23.4	19.8	29.8

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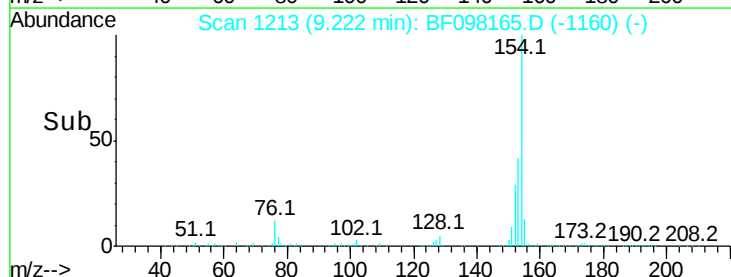
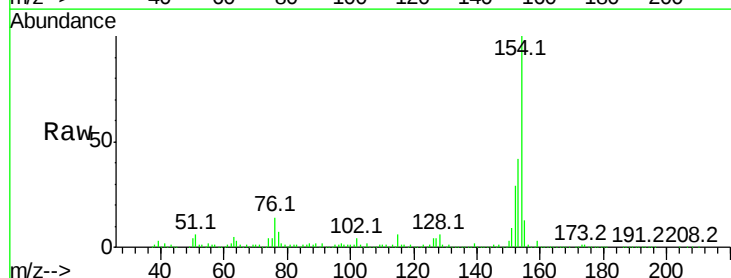
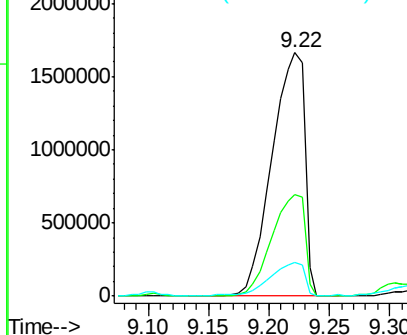
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

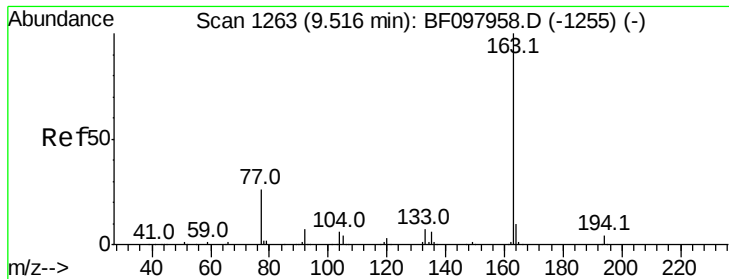


#45
1,1'-Biphenyl
Concen: 214.834 ng
RT: 9.22 min Scan# 1213
Delta R.T. 0.01 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.8	21.2	61.2
76	13.6	0.0	29.9

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0





#49

Dimethylphthalate

Concen: 10.921 ng

RT: 9.52 min Scan# 1264

Delta R.T. 0.01 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

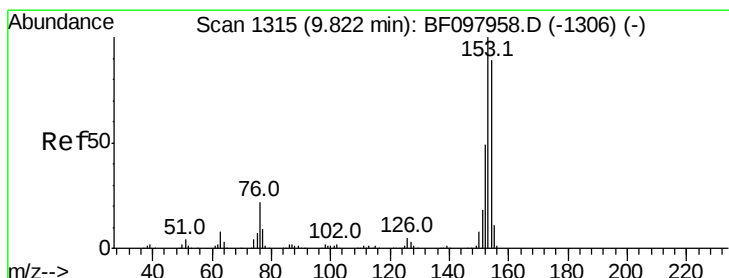
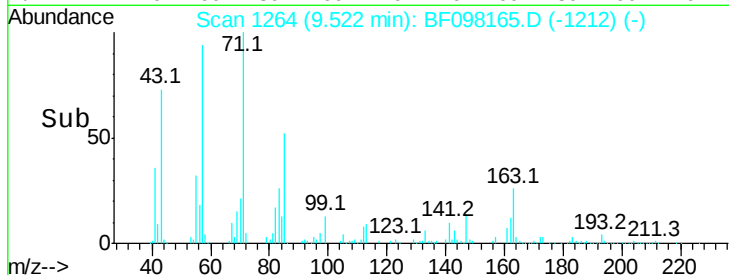
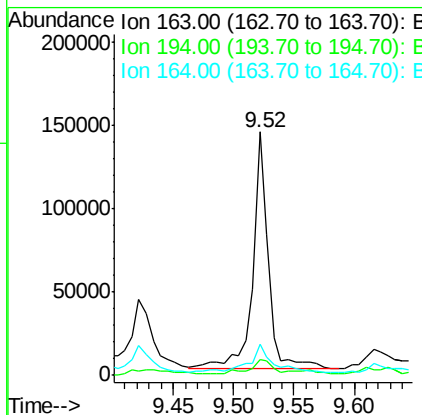
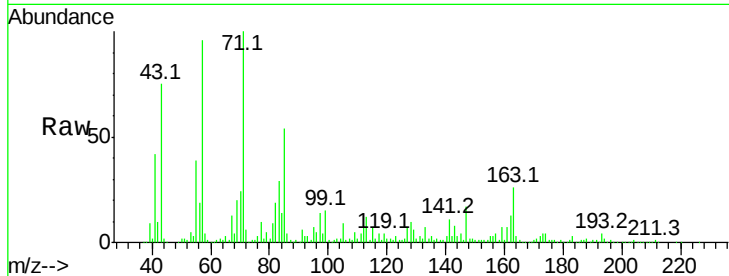
ClientSampled :

TP-1

Tot Ion:163	Resp:	126917
Ion Ratio	Lower	Upper
163 100		
194 6.7	2.6	4.0#
164 12.8	8.4	12.6#

Manual Integrations
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#51

Acenaphthene

Concen: 312.260 ng

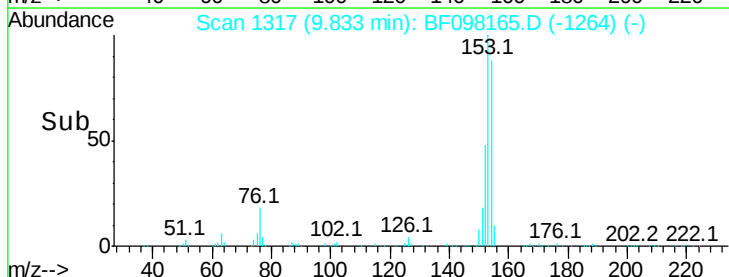
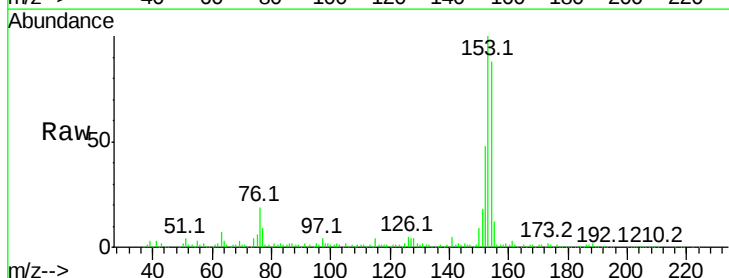
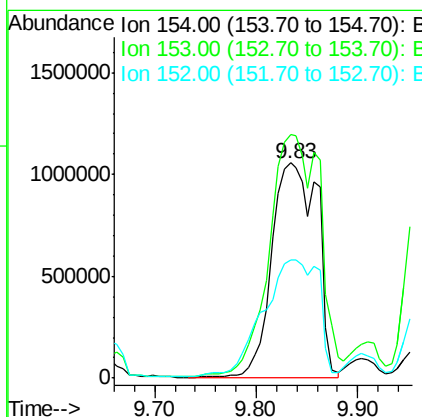
RT: 9.83 min Scan# 1317

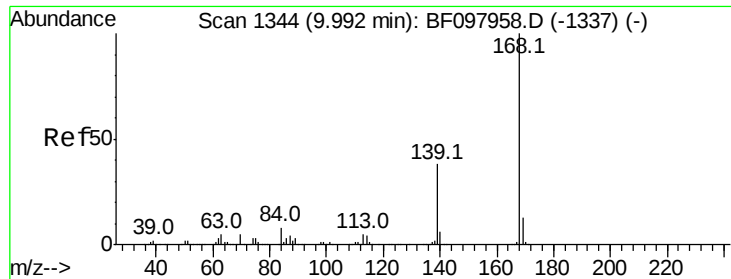
Delta R.T. 0.01 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion:154	Resp:	3312940
Ion Ratio	Lower	Upper
154 100		
153 113.3	90.5	135.7
152 54.7	43.6	65.4





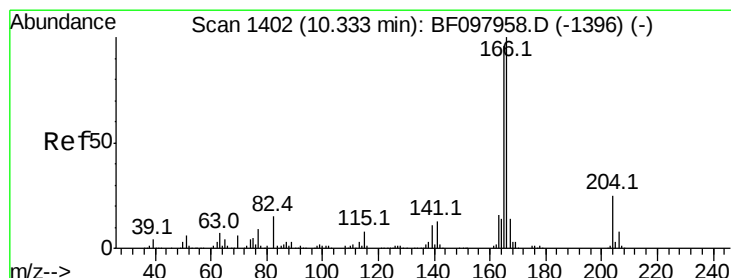
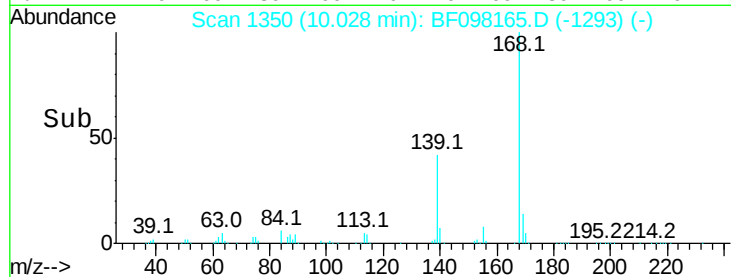
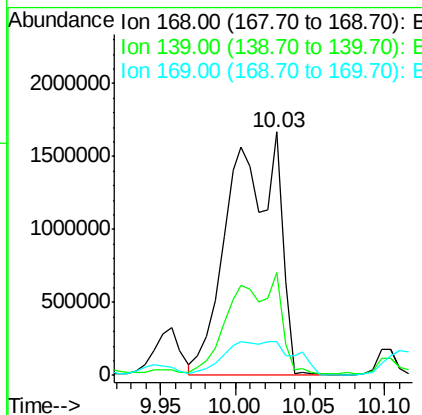
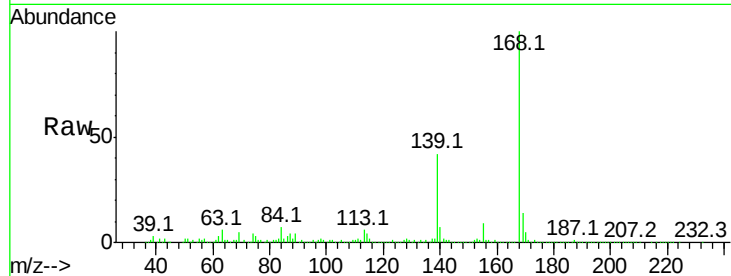
#54
Dibenzofuran
Concen: 268.952 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.04 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampled :
TP-1

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.3	30.6	45.8
169	13.8	10.8	16.2

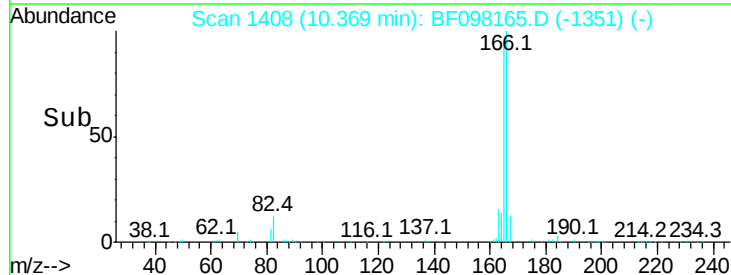
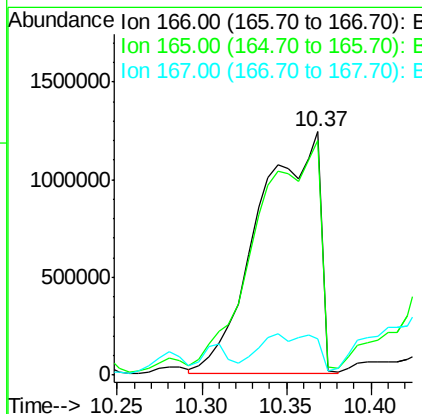
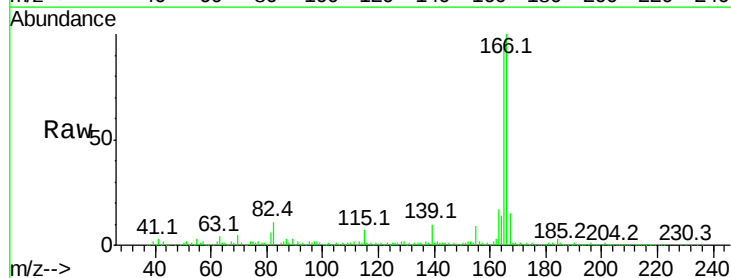
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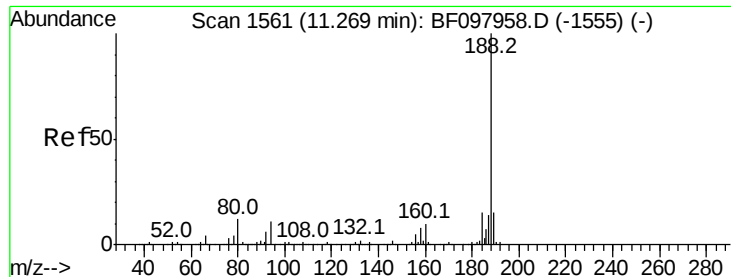
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#57
Fluorene
Concen: 283.587 ng
RT: 10.37 min Scan# 1408
Delta R.T. 0.04 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.3	78.8	118.2
167	14.8	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

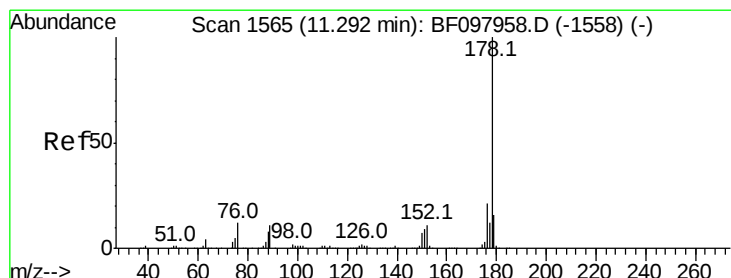
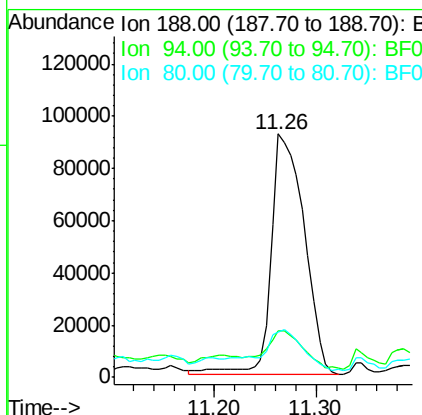
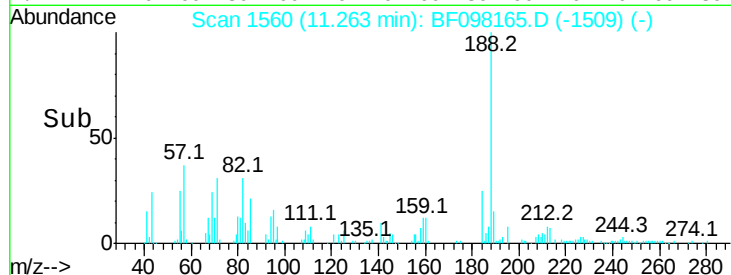
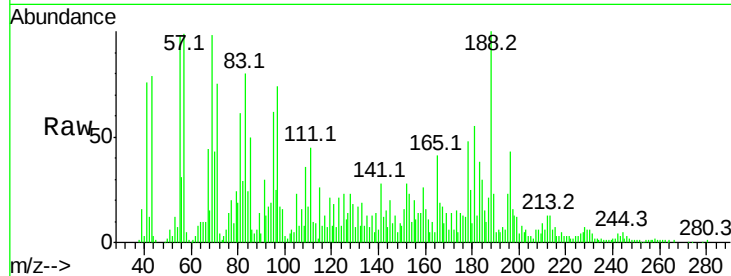
ClientSampleId :

TP-1

Tot Ion:	188	Resp:	209353
Ion Ratio	Lower	Upper	
188	100		
94	19.4	9.4	14.2#
80	18.7	10.2	15.2#

Manual Integrations
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#70

Phenanthrene

Concen: 446.748 ng m

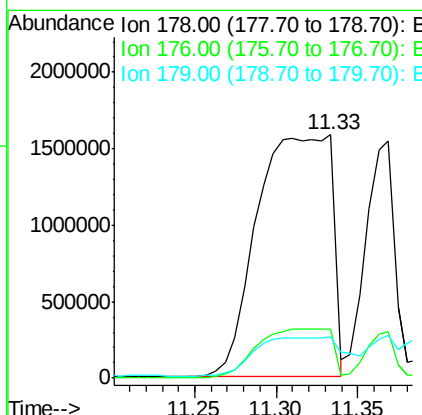
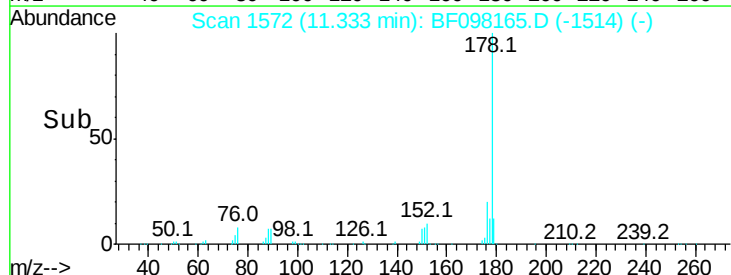
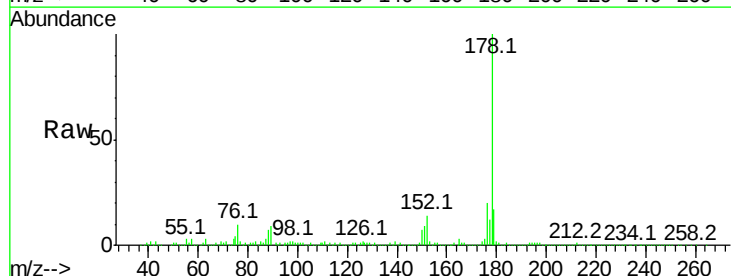
RT: 11.33 min Scan# 1572

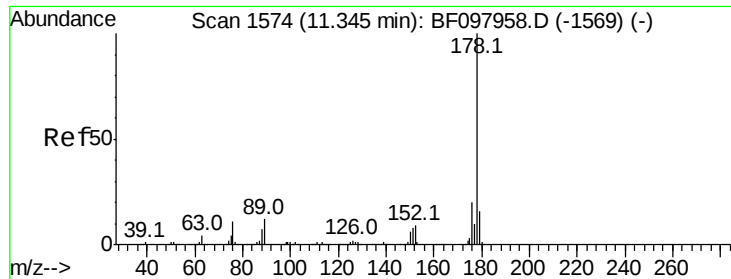
Delta R.T. 0.04 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion:	178	Resp:	4983844
Ion Ratio	Lower	Upper	
178	100		
176	20.2	16.2	24.4
179	17.1	12.6	19.0





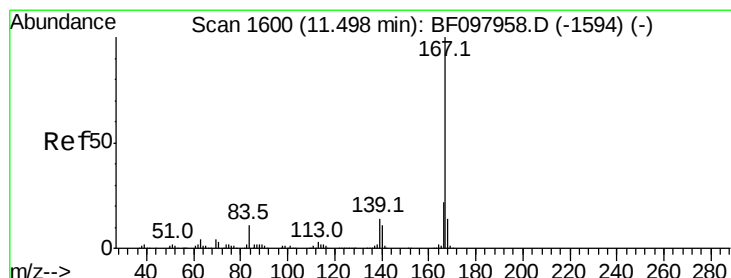
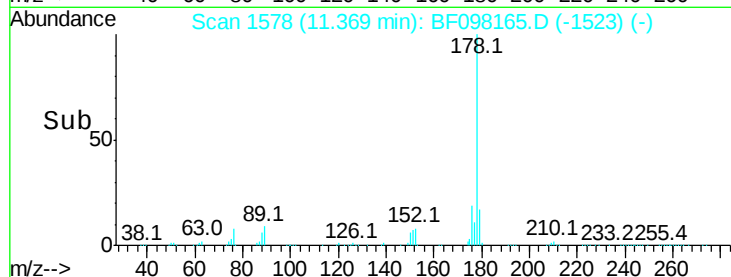
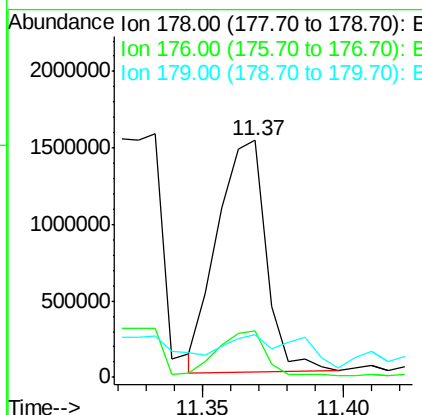
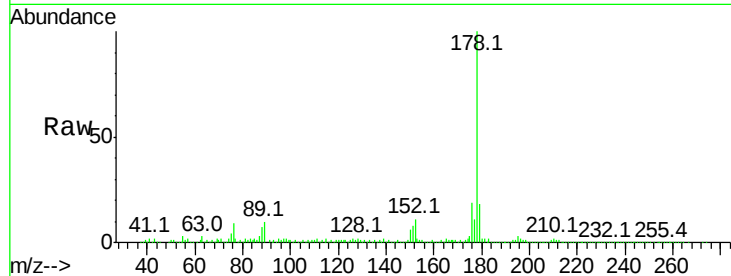
#71
 Anthracene
 Concen: 160.764 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: BF098165.D
 Acq: 30 Aug 2017 19:39

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	18.2	12.7	19.1

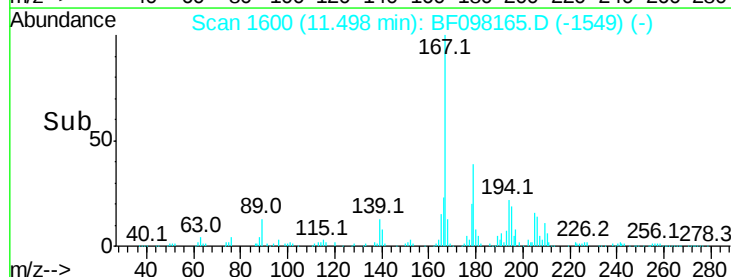
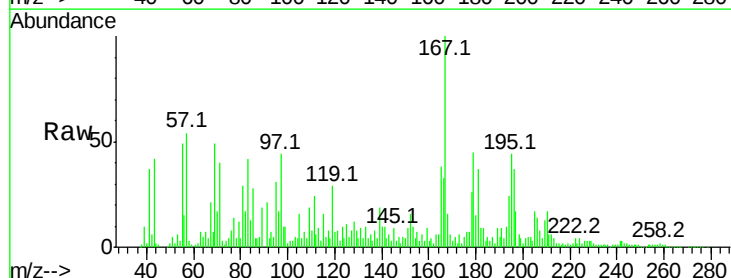
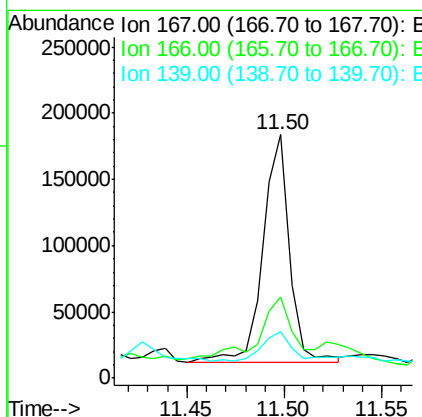
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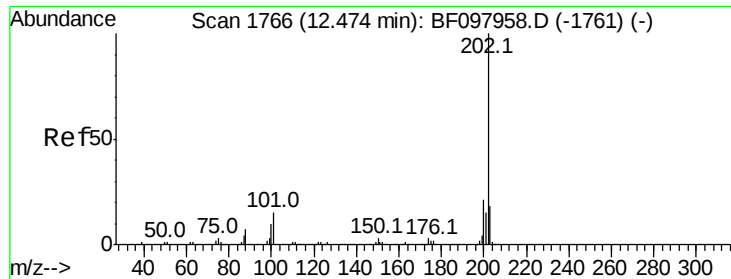
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#72
 Carbazole
 Concen: 15.069 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: BF098165.D
 Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
167	100		
166	33.2	18.1	27.1#
139	19.0	11.7	17.5#





#74

Fluoranthene

Concen: 183.115 ng

RT: 12.49 min Scan# 1769

Delta R.T. 0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

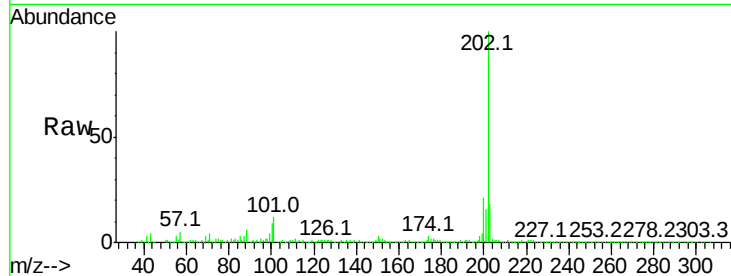
ClientSampled :

TP-1

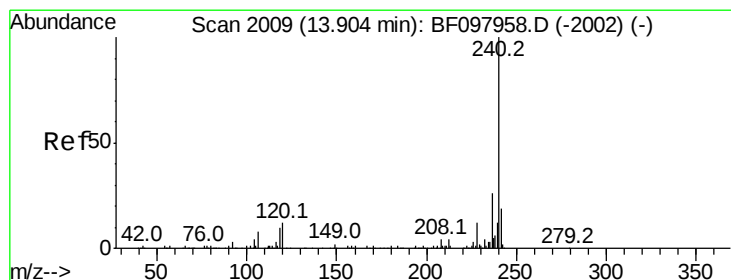
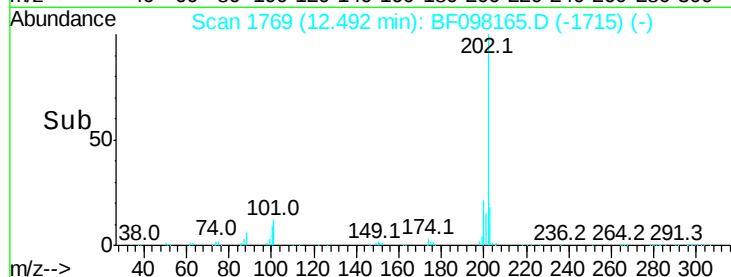
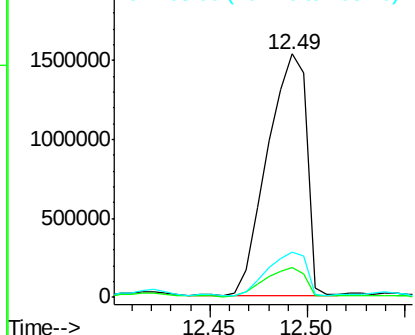
Tot Ion:	202	Resp:	2132202
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	33.2
203	18.5	0.0	38.1

Manual Integrations
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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: 20.000 ng

RT: 13.89 min Scan# 2006

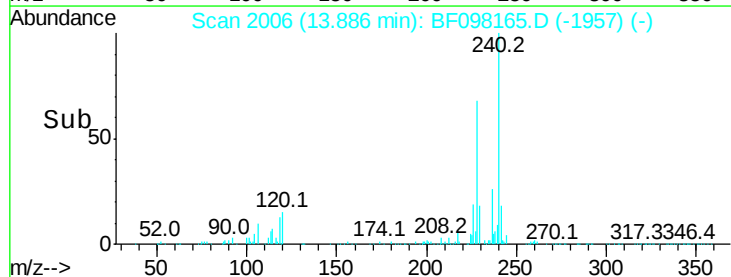
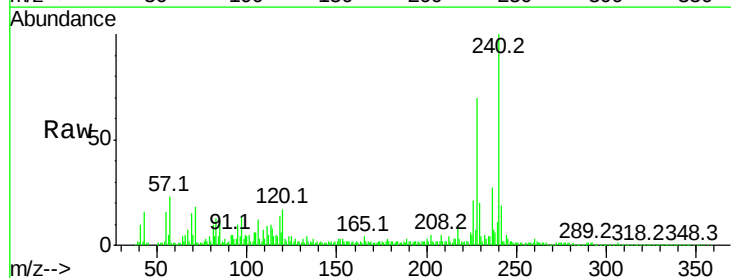
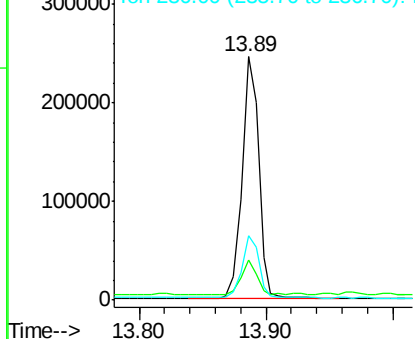
Delta R.T. -0.01 min

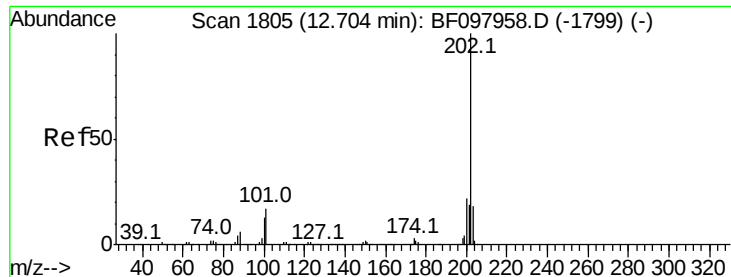
Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion:	240	Resp:	221031
Ion Ratio	Lower	Upper	
240	100		
120	16.6	5.8	8.8#
236	26.6	20.5	30.7

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

Pvrene

Concen: 105.762 ng

RT: 12.72 min Scan# 1807

Delta R.T. 0.01 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

ClientSampled :

TP-1

Tot Ion:202 Resp: 1911949

Ion Ratio Lower Upper

202 100

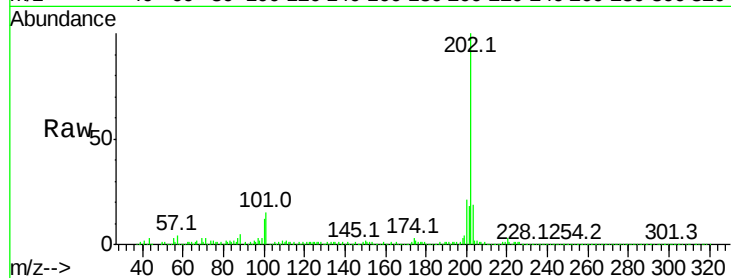
200 21.0 17.6 26.4

203 19.5 14.4 21.6

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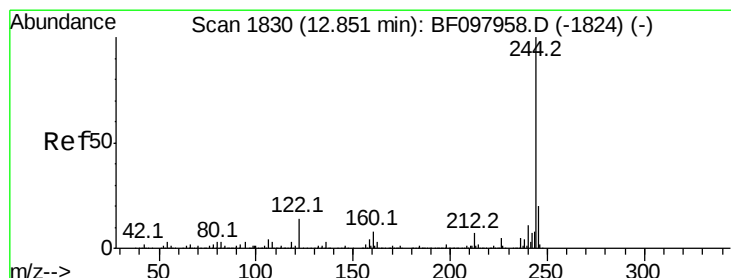
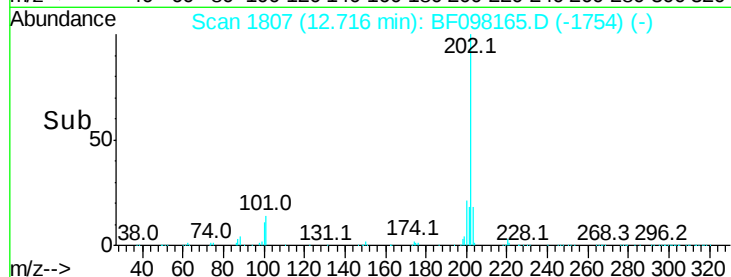
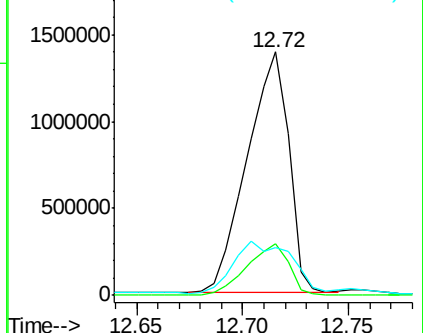
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 39.803 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

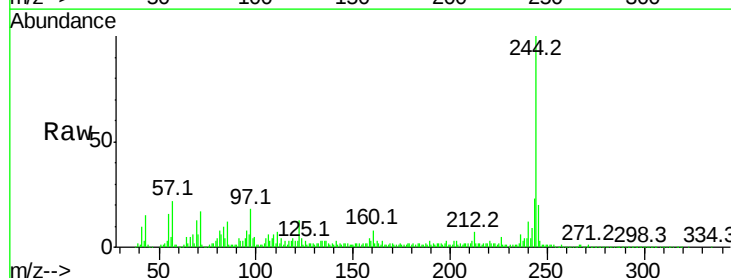
Tgt Ion:244 Resp: 421888

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

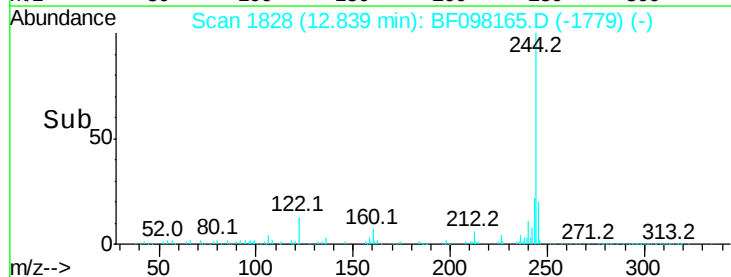
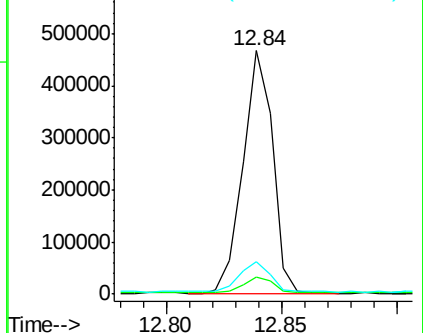
122 13.5 10.3 15.5

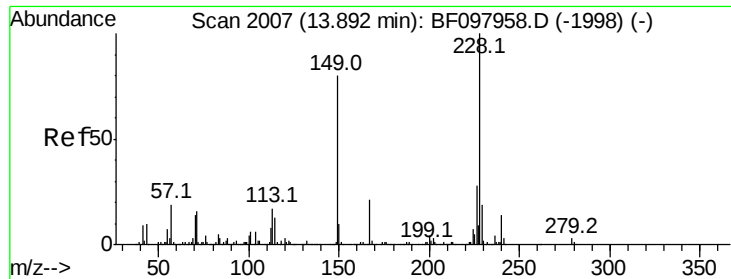


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





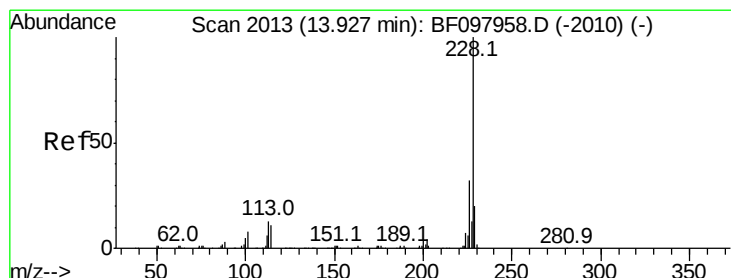
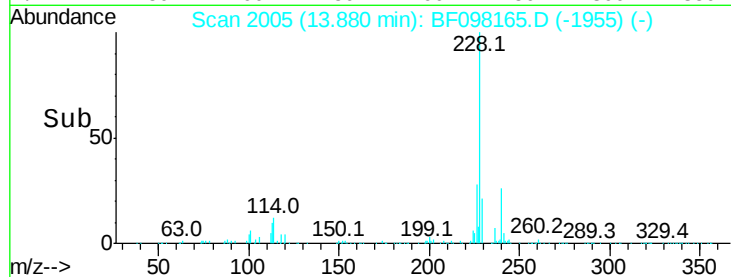
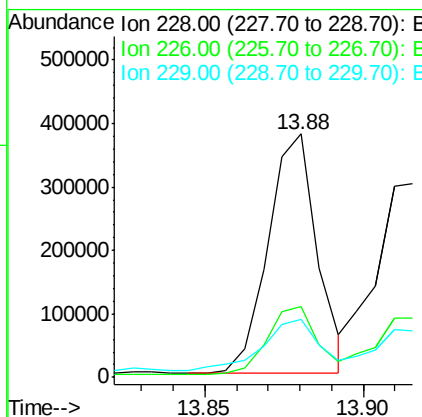
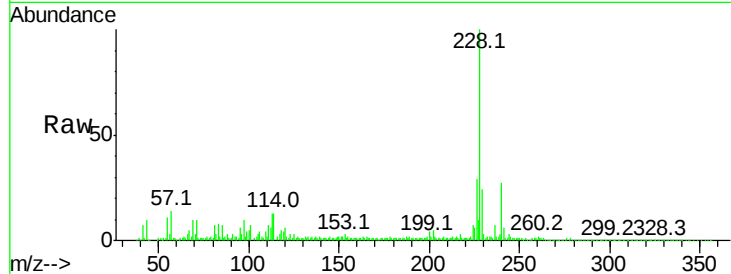
#80
Benzo(a)anthracene
Concen: 30.825 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampled :
TP-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	23.7	16.3	24.5

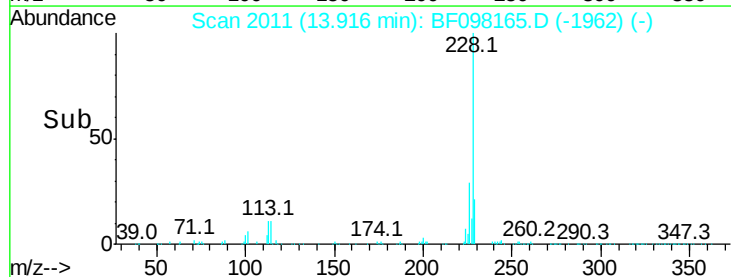
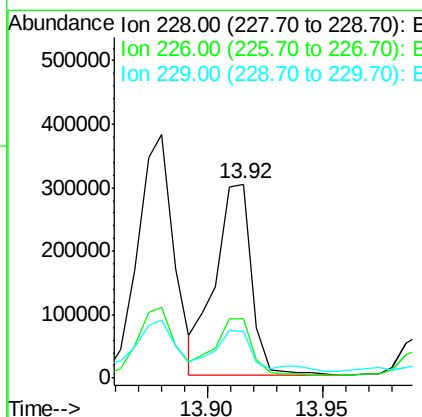
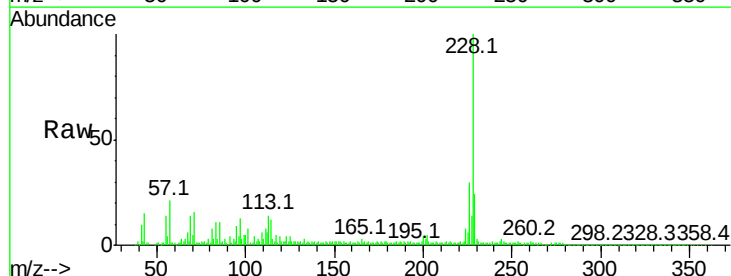
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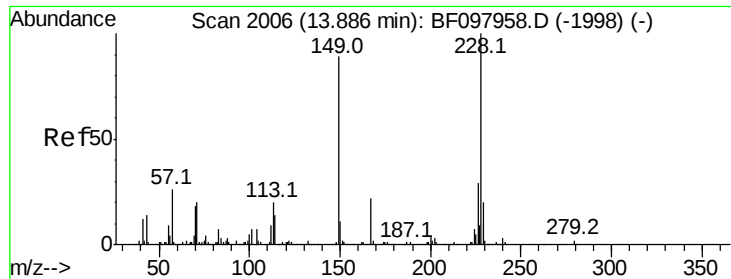
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#82
Chrysene
Concen: 24.827 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	23.8	15.8	23.6#





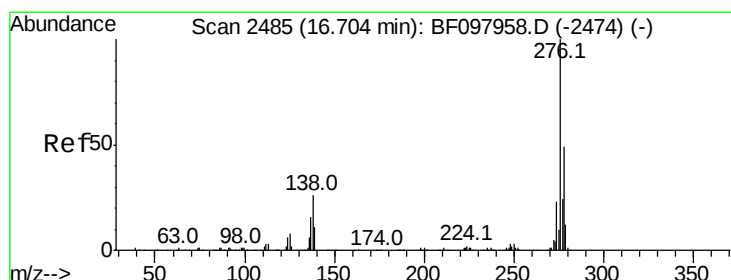
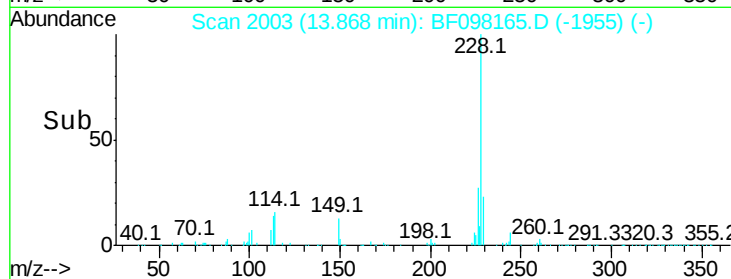
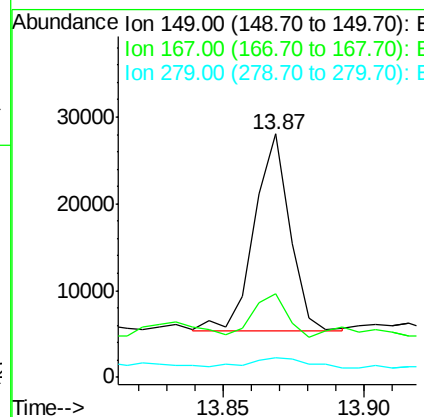
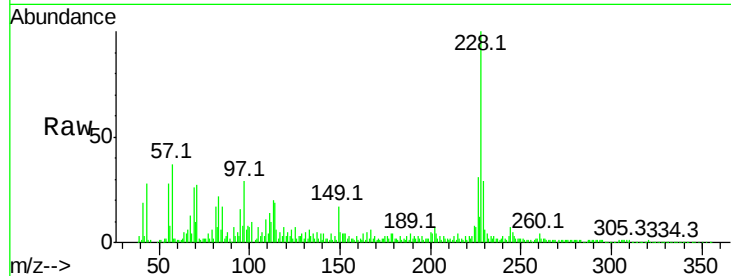
#83
Bis(2-ethylhexyl)phthalate
Concen: 2.561 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.02 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampleId :
TP-1

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	34.1	21.0	31.4#	
279	7.9	1.9	2.9#	

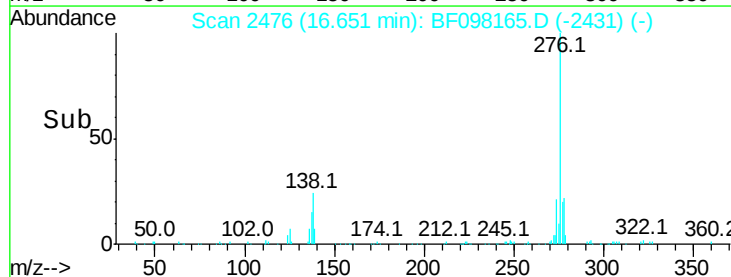
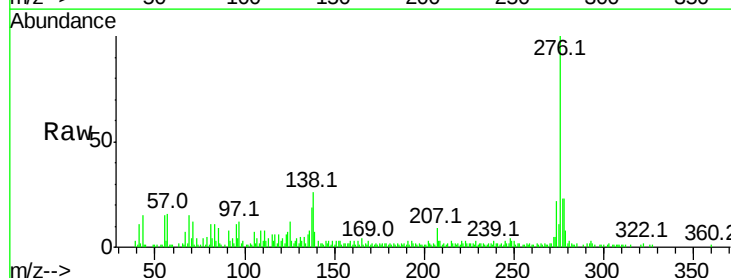
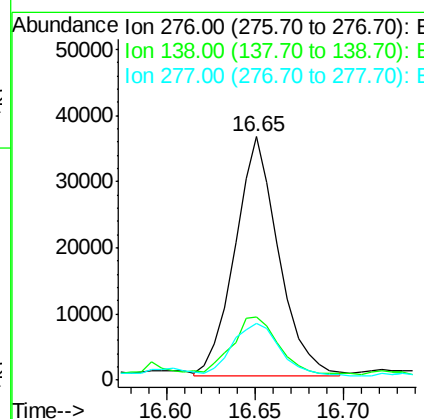
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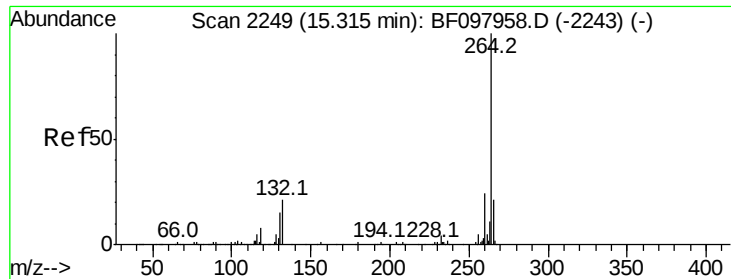
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#85
Indeno(1,2,3-cd)pyrene
Concen: 6.378 ng m
RT: 16.65 min Scan# 2476
Delta R.T. -0.04 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	6.9	27.8	41.6#	
277	6.1	20.2	30.4#	





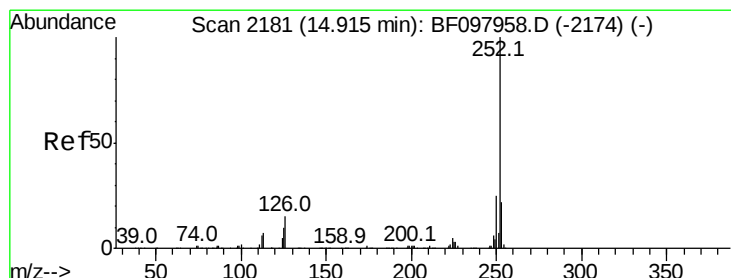
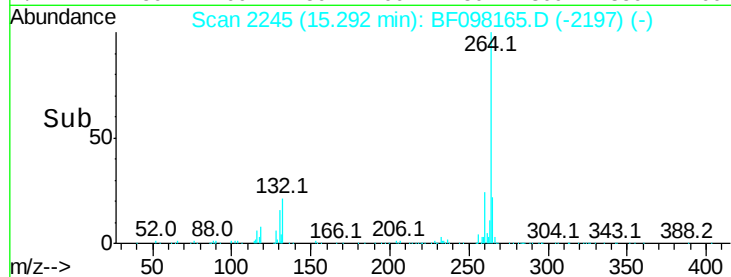
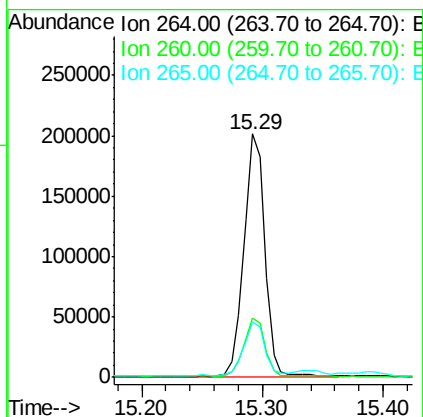
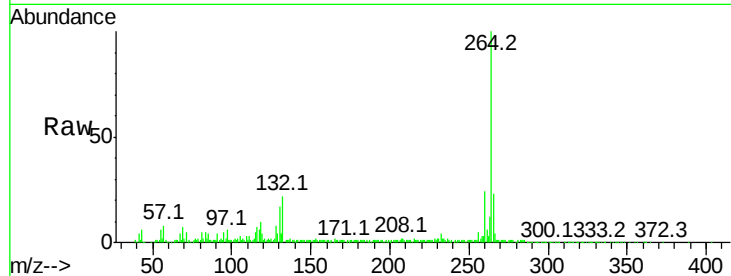
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.02 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Instrument :
BNA_F
ClientSampled :
TP-1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	22.6	17.2	25.8

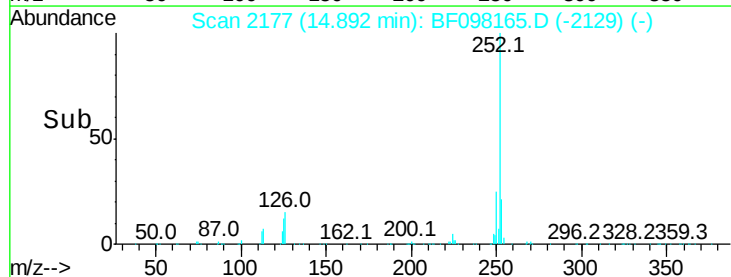
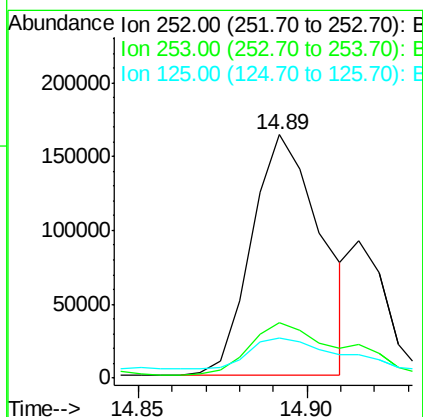
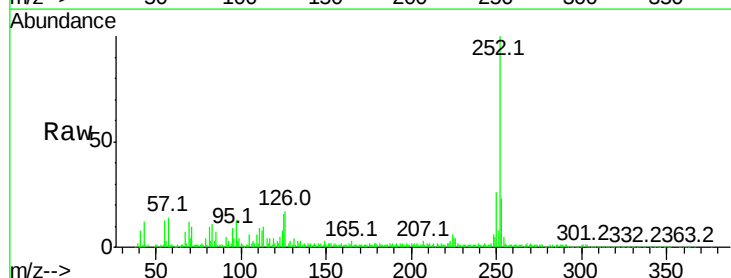
Manual Integrations
APPROVED

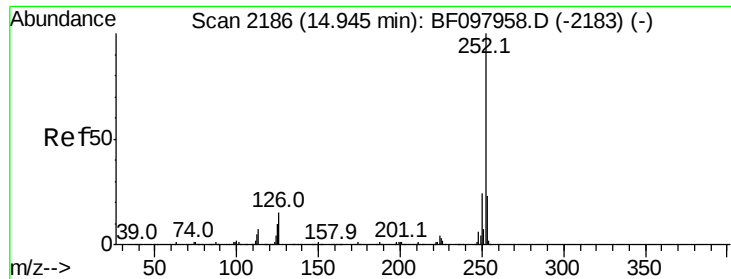
Sohil
8/31/2017 7:12:09 PM



#87
Benzo(b)fluoranthene
Concen: 15.108 ng m
RT: 14.89 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BF098165.D
Acq: 30 Aug 2017 19:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.1	27.1
125	16.4	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 4.798 ng

RT: 14.92 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Instrument :

BNA_F

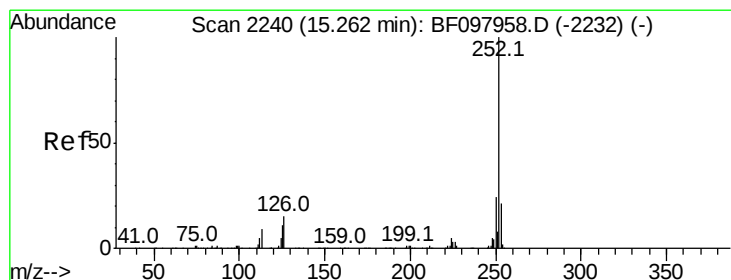
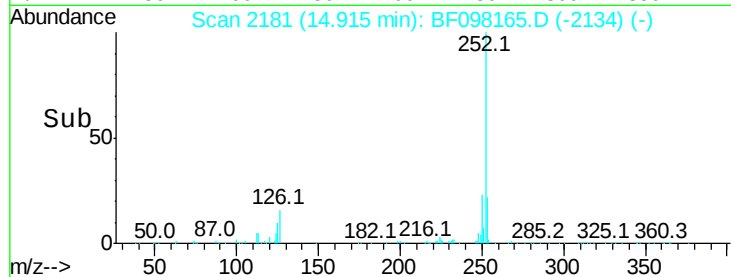
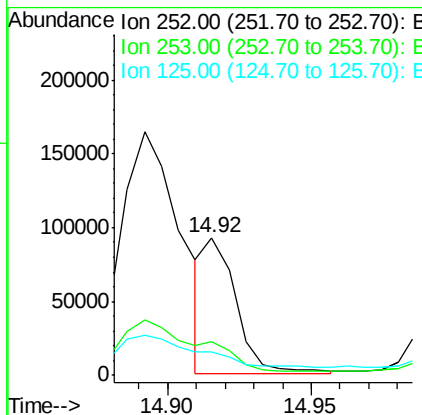
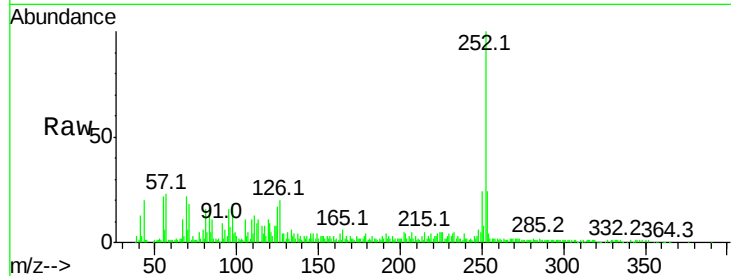
ClientSampled :

TP-1

Tot Ion:	252	Resp:	69784
Ion Ratio	Lower	Upper	
252	100		
253	24.2	18.4	27.6
125	17.4	13.1	19.7

Manual Integrations
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Sohil
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#89

Benzo(a)pyrene

Concen: 12.362 ng

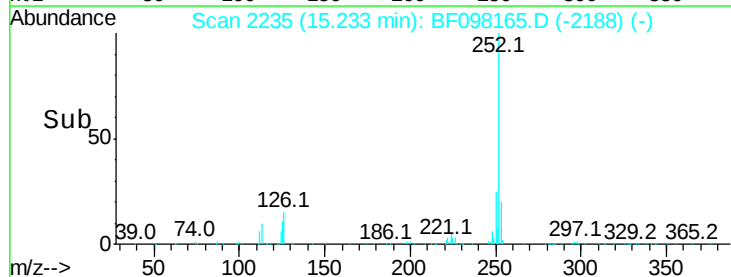
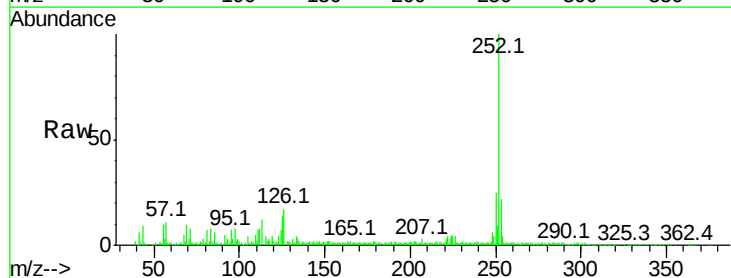
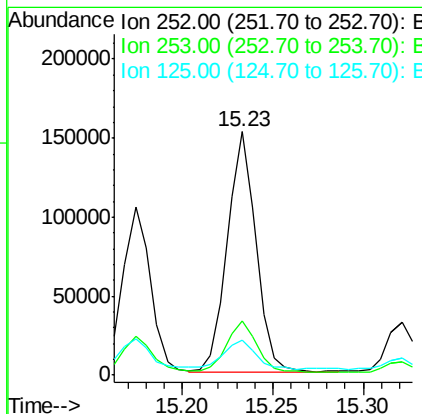
RT: 15.23 min Scan# 2235

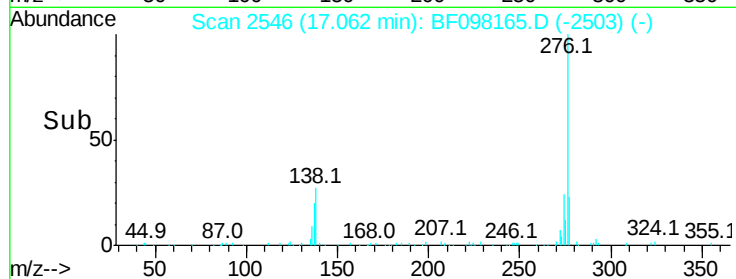
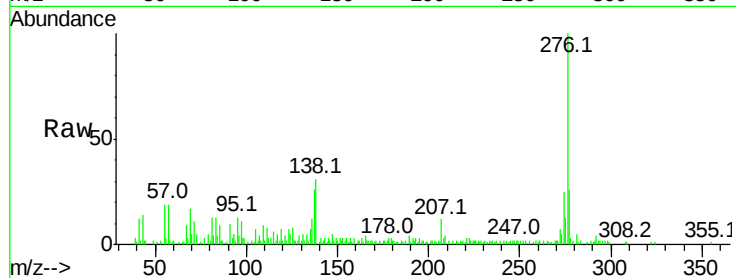
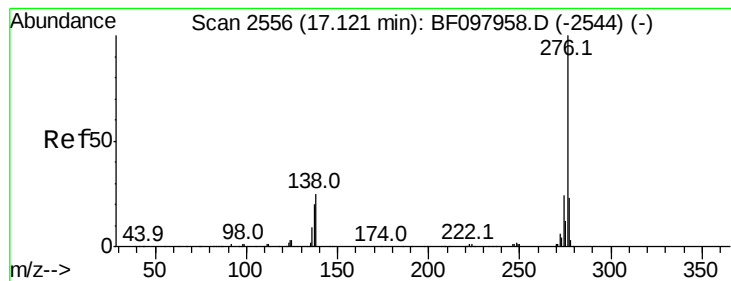
Delta R.T. -0.02 min

Lab File: BF098165.D

Acq: 30 Aug 2017 19:39

Tgt Ion:	252	Resp:	169402
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.5	26.3
125	14.3	11.0	16.4





#91
 Benzo(a,h,i)perylene
 Concen: 4.962 ng
 RT: 17.06 min Scan# 2546
 Delta R.T. -0.05 min
 Lab File: BF098165.D
 Acq: 30 Aug 2017 19:39

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.6	28.0
138	30.7	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:12:09 PM

