

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
 Data File : BF110859.D
 Acq On : 19 Nov 2018 17:59
 Operator : JU/SJ
 Sample : J5981-05 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DTW-03(8-10)

Manual Integrations
 APPROVED

Sohil
 11/20/2018 11:07:41 AM

Quant Time: Nov 20 01:21:43 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	59205	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	246440	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	111606	20.00	ng	-0.01
64) Phenanthrene-d10	11.48	188	169433	20.00	ng	0.00
76) Chrysene-d12	14.14	240	139363	20.00	ng	0.00
87) Perylene-d12	15.66	264	100653	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	61686	16.92	ng	0.00
7) Phenol-d6	6.57	99	81769	17.54	ng	0.00
23) Nitrobenzene-d5	7.50	82	52324	12.23	ng	-0.01
42) 2,4,6-Tribromophenol	10.78	330	15721	13.98	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	92109	11.79	ng	-0.01
79) Terphenyl-d14	13.06	244	72482	9.74	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.25	128	970618	83.898	ng	99
37) 2-Methylnaphthalene	8.93	142	95931m	12.649	ng	
38) 1-Methylnaphthalene	9.03	142	60333	8.272	ng	# 99
46) 1,1'-Biphenyl	9.40	154	63261	6.076	ng	99
49) Acenaphthylene	9.85	152	132788	12.293	ng	99
52) Acenaphthene	10.02	154	18299	2.681	ng	# 90
55) Dibenzofuran	10.19	168	384831	38.531	ng	97
58) Fluorene	10.53	166	342899	44.698	ng	99
71) Phenanthrene	11.52	178	1849765	203.778	ng	99
72) Anthracene	11.56	178	466868	50.986	ng	98
73) Carbazole	11.72	167	39081	4.444	ng	97
75) Fluoranthene	12.71	202	1004677	110.396	ng	99
78) Pvrene	12.94	202	732272	68.241	ng	99
81) Benzo(a)anthracene	14.13	228	507937	60.978	ng	98
83) Chrysene	14.16	228	393703	49.610	ng	99
86) Indeno(1,2,3-cd)pyrene	17.24	276	133649	23.469	ng	97
88) Benzo(b)fluoranthene	15.22	252	438834m	72.879	ng	
89) Benzo(k)fluoranthene	15.24	252	112935m	18.981	ng	
90) Benzo(a)pvrene	15.60	252	244222	44.640	ng	98
91) Dibenzo(a,h)anthracene	17.24	278	39545m	8.542	ng	
92) Benzo(g,h,i)perylene	17.73	276	111147	24.196	ng	99

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

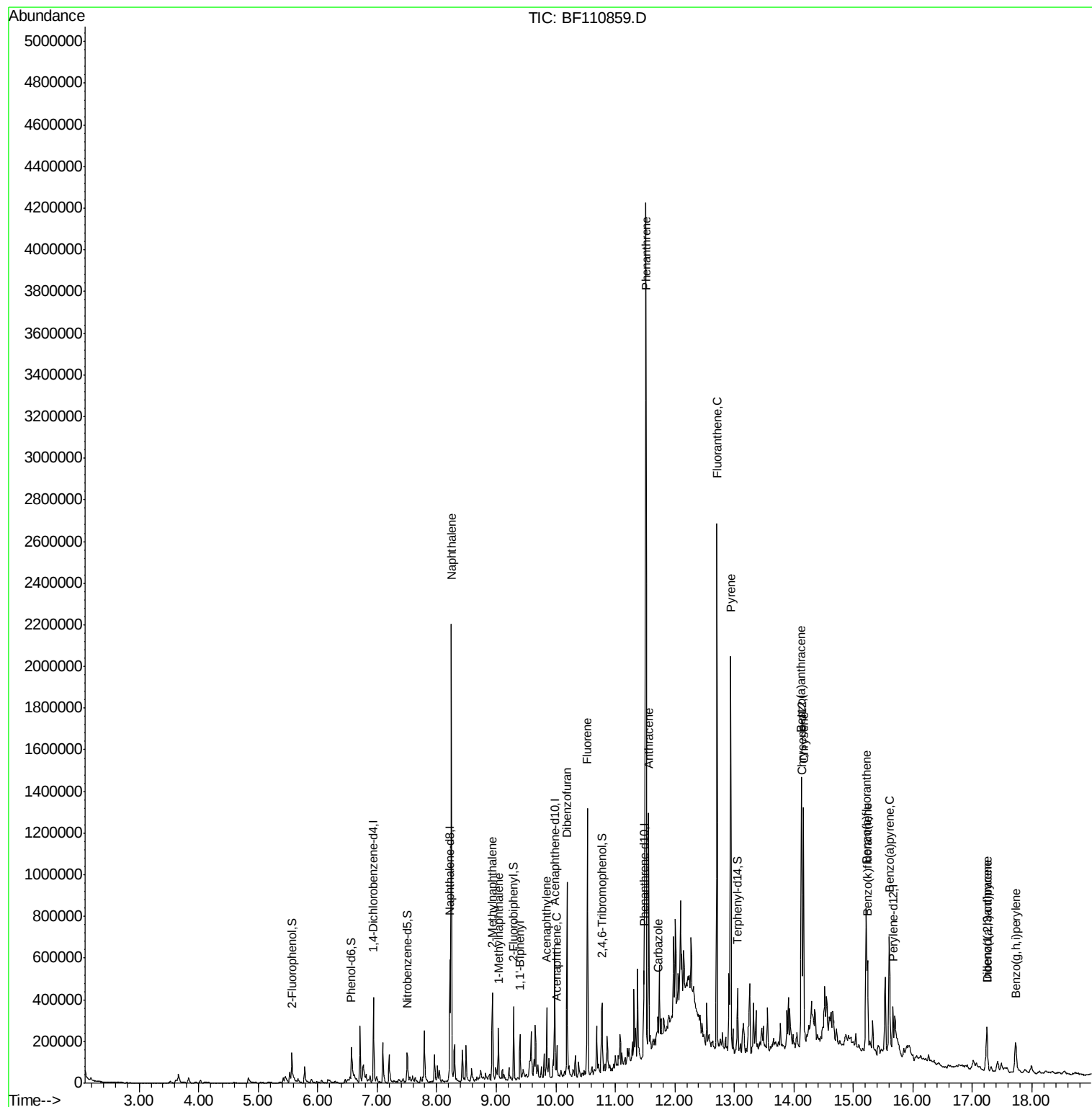
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
Data File : BF110859.D
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Misc :
ALS Vial : 19 Sample Multiplier: 1

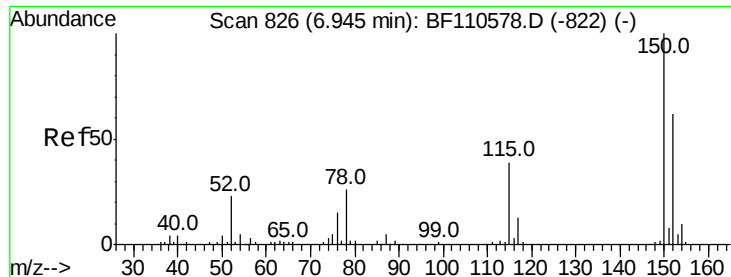
Instrument :
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DTW-03(8-10)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

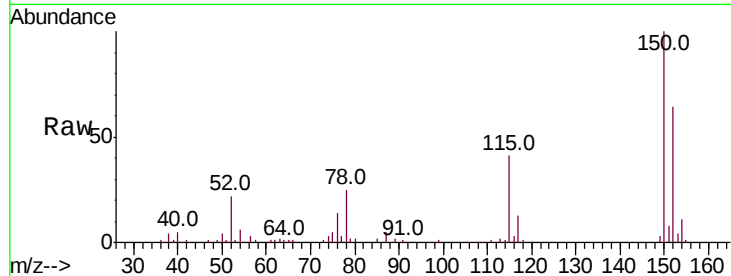
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	122.7	184.1
115	63.6	49.1	73.7

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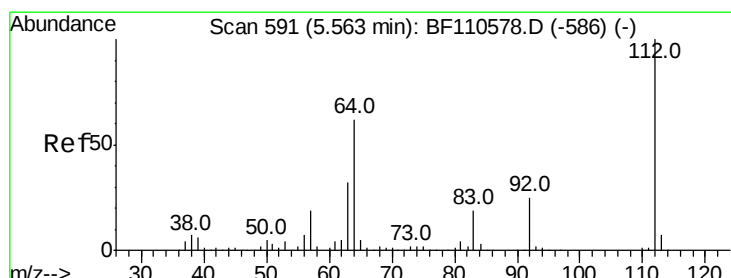
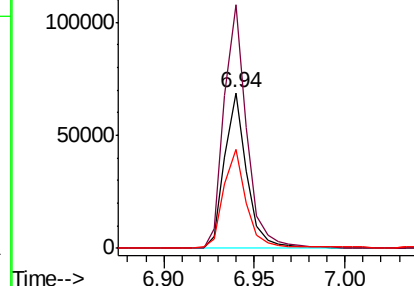
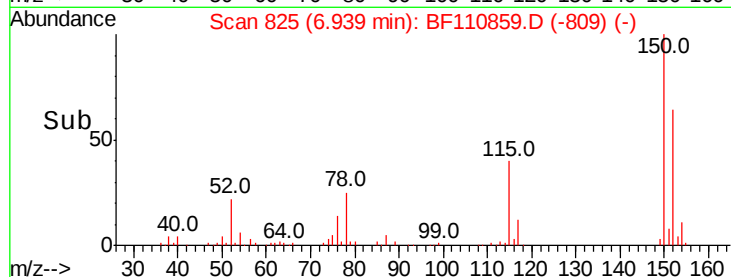


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

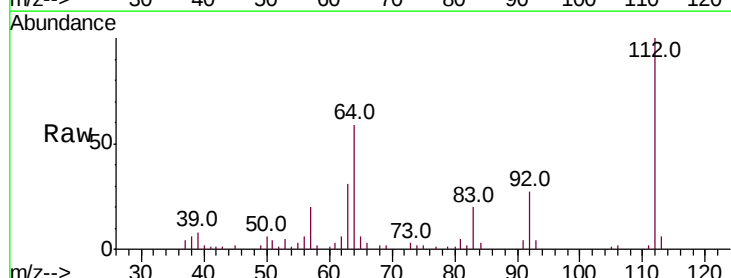
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 16.924 ng
RT: 5.56 min Scan# 591
Delta R.T. 0.00 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.9	44.1	66.1
63	31.0	23.7	35.5

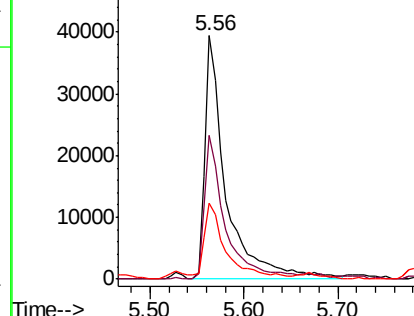
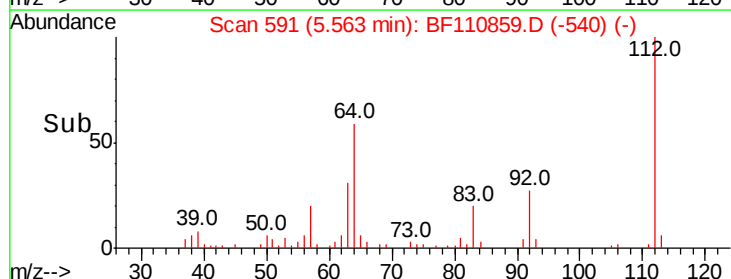


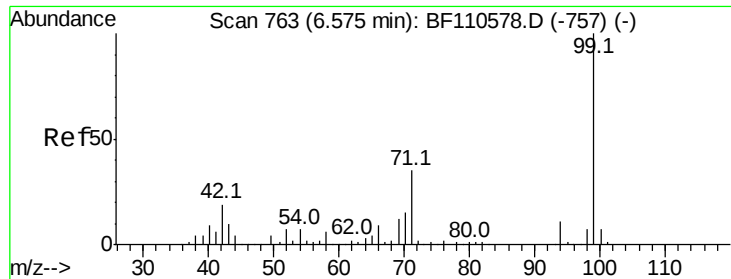
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 17.543 ng

RT: 6.57 min Scan# 762

Delta R.T. -0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

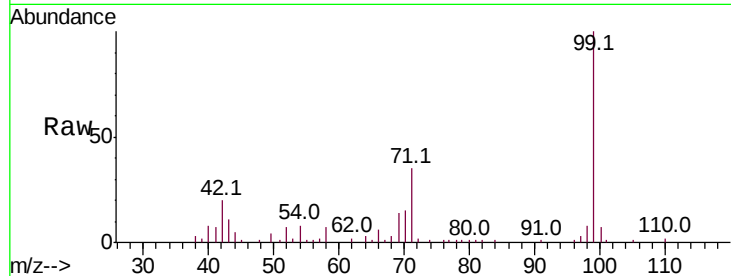
ClientSampleId :

DTW-03(8-10)

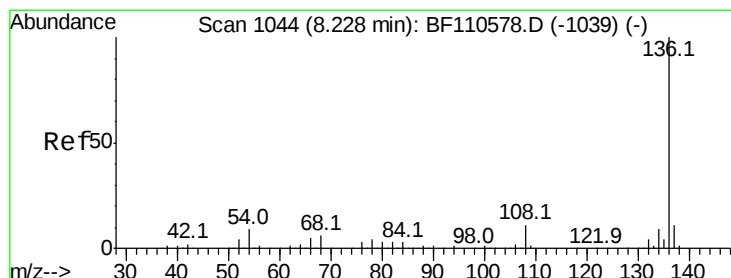
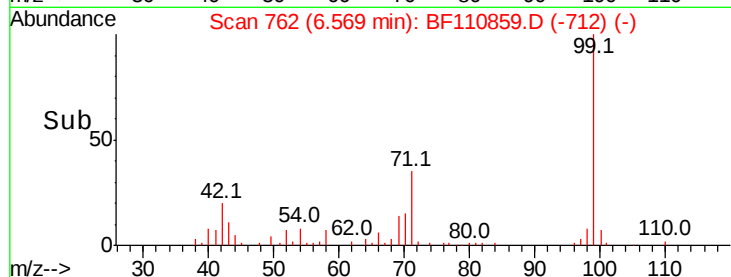
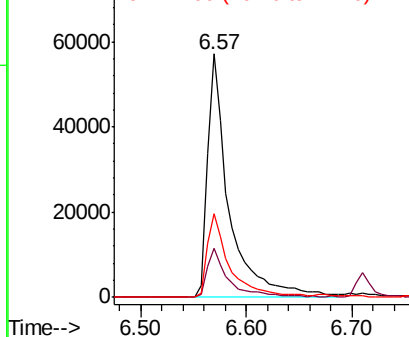
Tot Ion:	99	Resp:	81769
Ion Ratio	Lower	Upper	
99	100		
42	20.3	15.8	23.6
71	34.6	28.0	42.0

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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: 8.22 min Scan# 1043

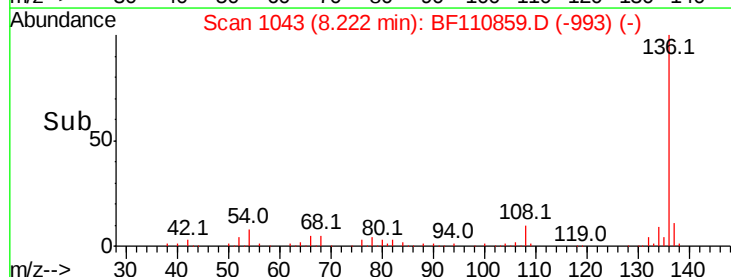
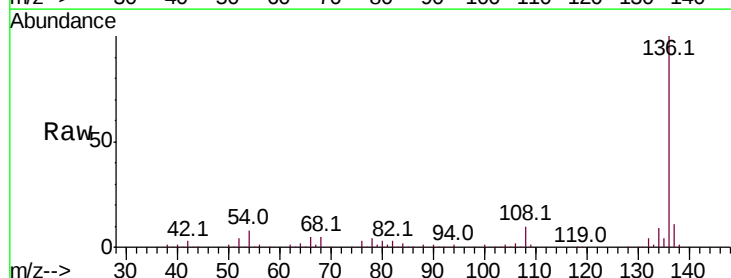
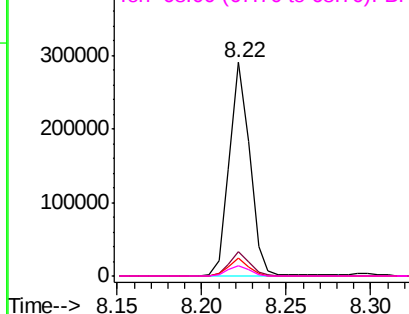
Delta R.T. -0.01 min

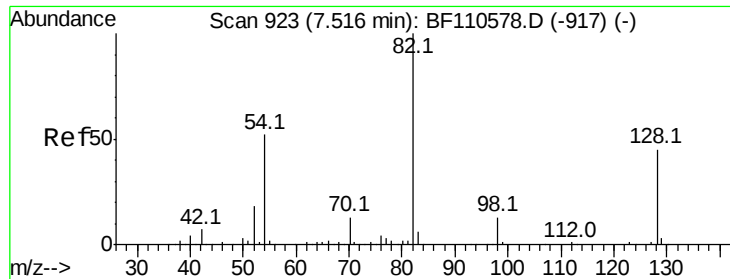
Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Tgt Ion:	136	Resp:	246440
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.8	13.2
54	8.1	5.4	8.2
68	5.0	4.2	6.2

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





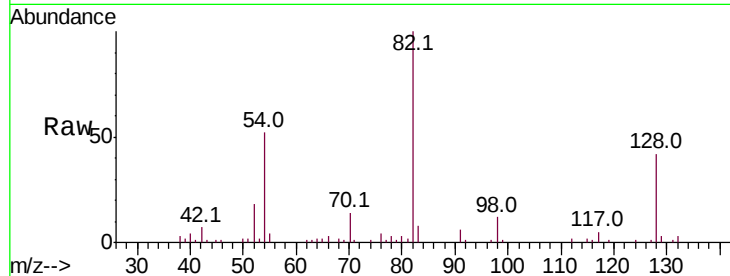
#23
 Nitrobenzene-d5
 Concen: 12.227 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: BF110859.D
 Acq: 19 Nov 2018 17:59

Instrument :
 BNA_F
 ClientSampleId :
 DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.2	51.2
54	51.7	38.6	58.0

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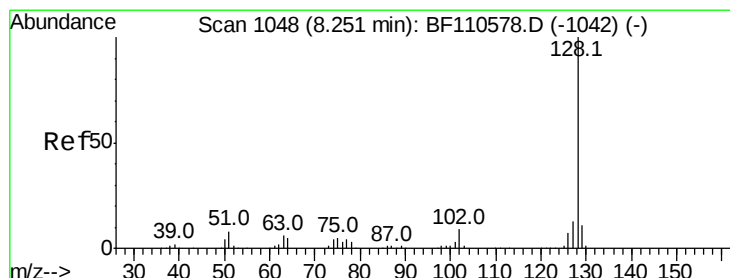
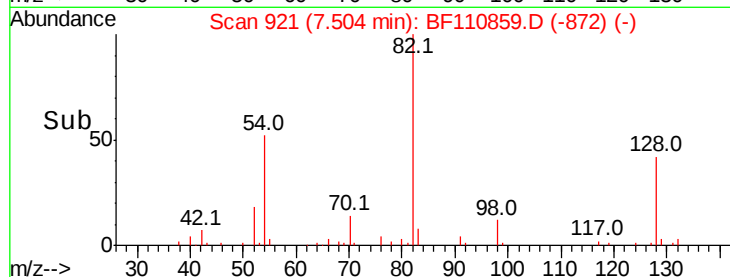
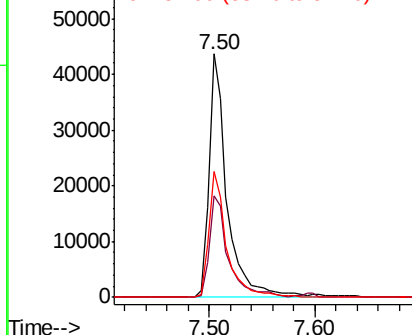


Abundance

Ion 82.00 (81.70 to 82.70): BF1

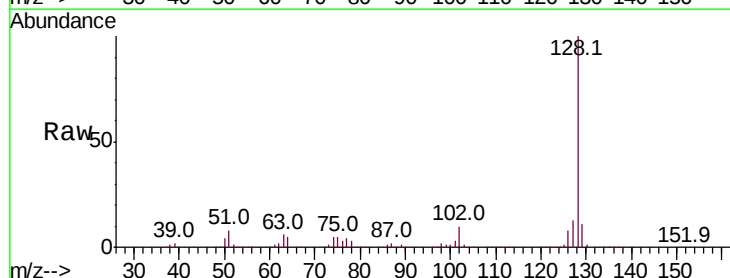
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
 Naphthalene
 Concen: 83.898 ng
 RT: 8.25 min Scan# 1047
 Delta R.T. -0.01 min
 Lab File: BF110859.D
 Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.0	10.8	16.2

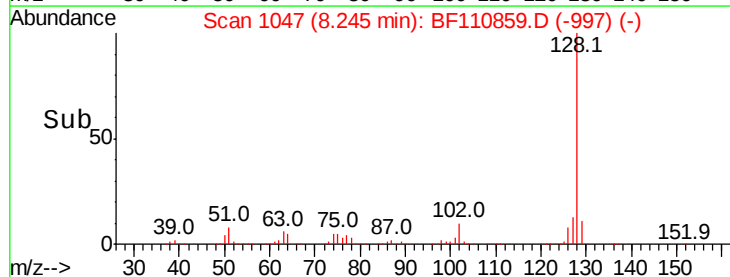
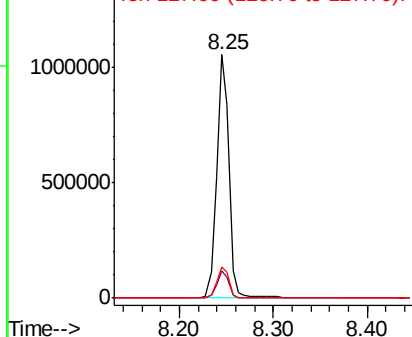


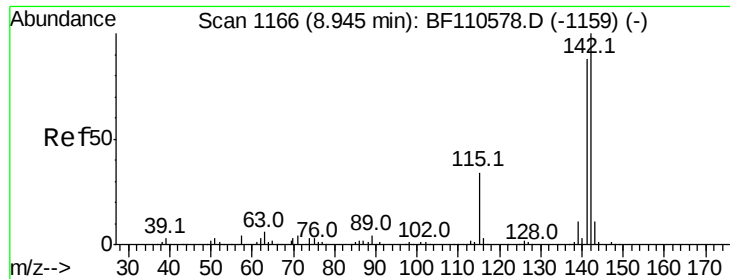
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





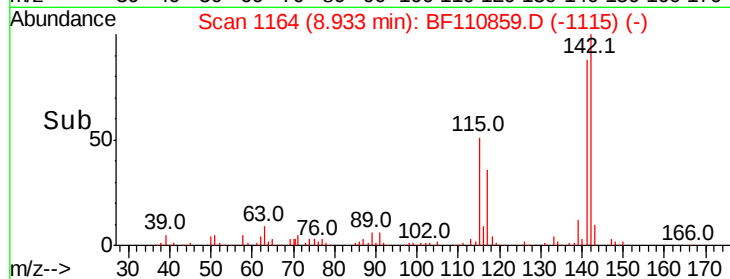
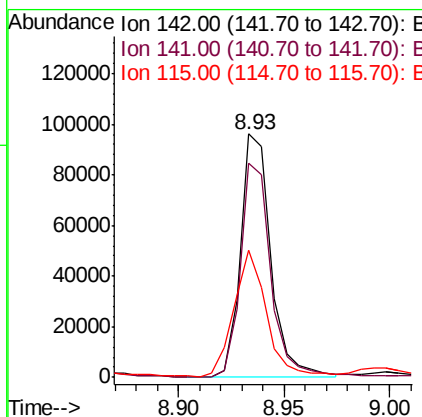
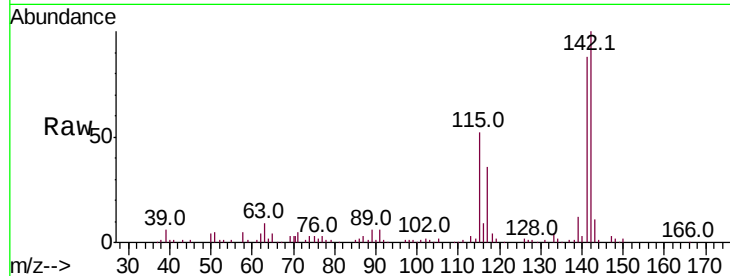
#37
2-Methylnaphthalene
Concen: 12.649 ng m
RT: 8.93 min Scan# 1164
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.4	107.2
115	52.0	28.7	43.1#

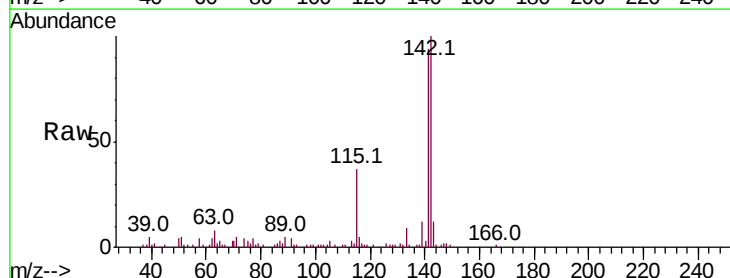
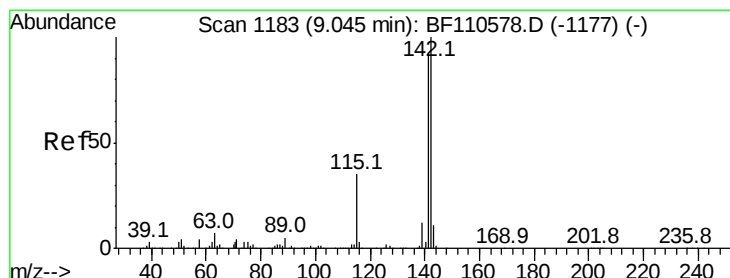
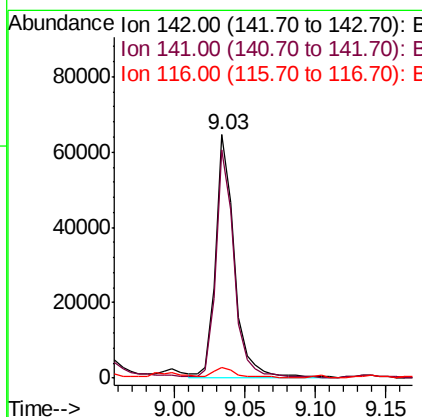
Manual Integrations
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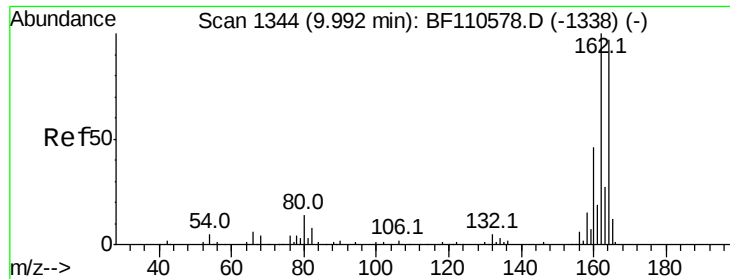
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#38
1-Methylnaphthalene
Concen: 8.272 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.8	74.2	111.4
116	4.6	2.6	4.0#





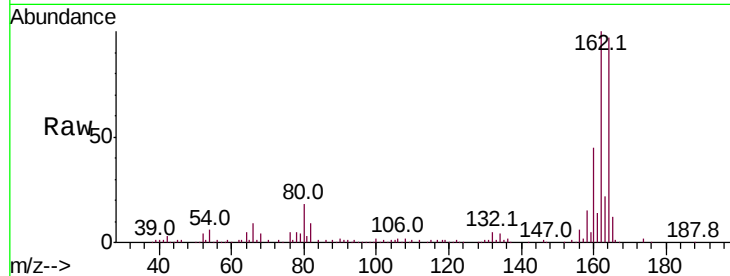
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

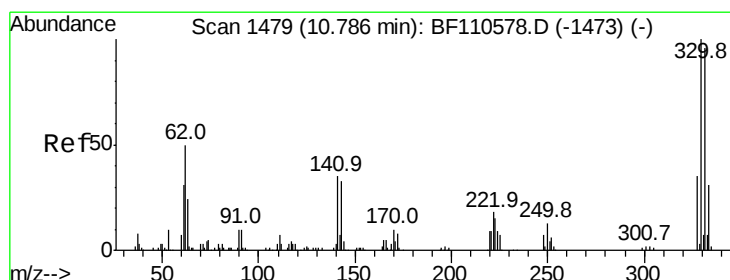
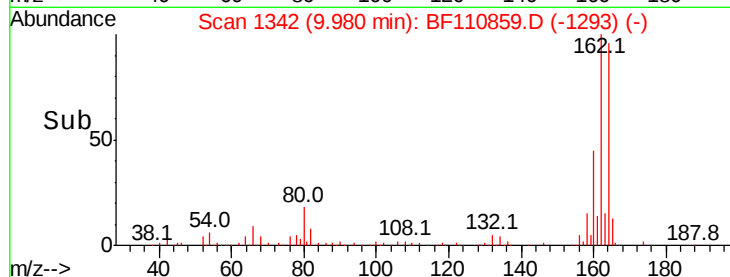
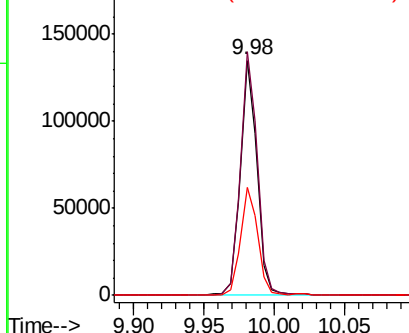
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.5	83.0	124.6	
160	46.1	37.0	55.6	

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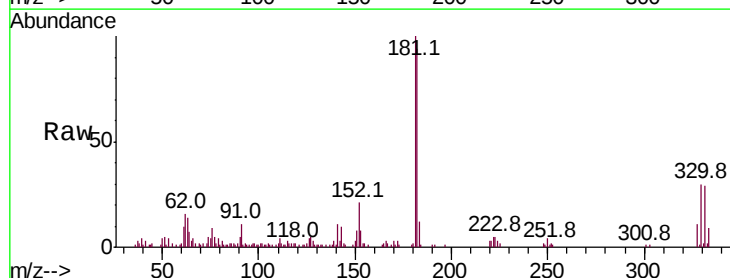


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

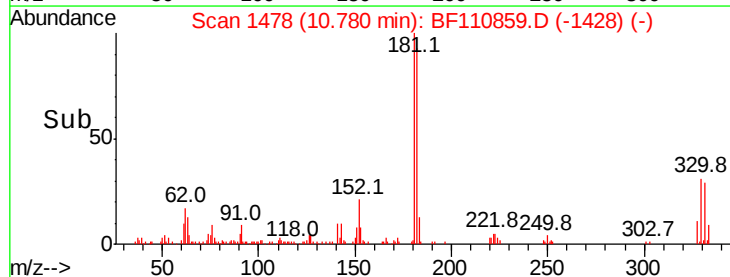
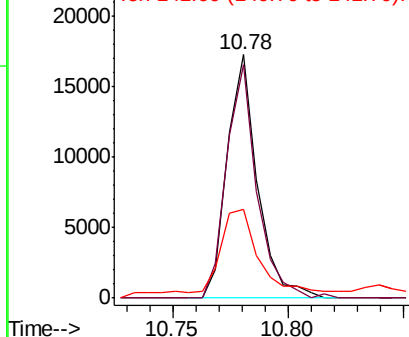


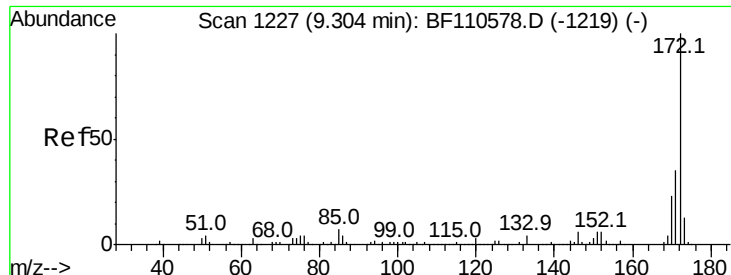
#42
2,4,6-Tribromophenol
Concen: 13.980 ng
RT: 10.78 min Scan# 1478
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.0	77.1	115.7	
141	54.2	27.0	40.4	



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





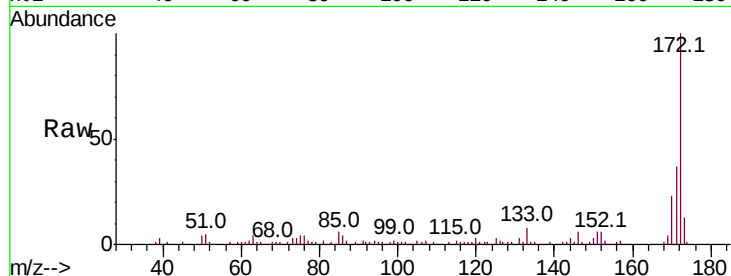
#45
2-Fluorobiphenyl
Concen: 11.787 ng
RT: 9.29 min Scan# 1225
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampled :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.0	28.6	43.0
170	23.0	19.7	29.5

Manual Integrations
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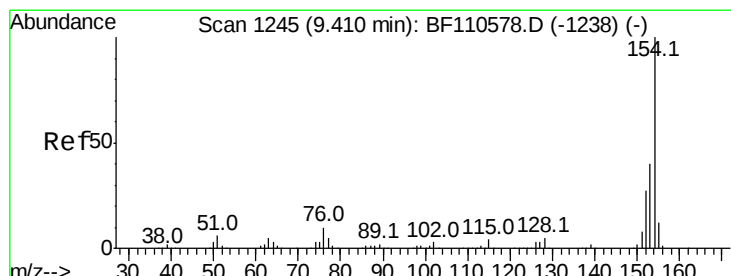
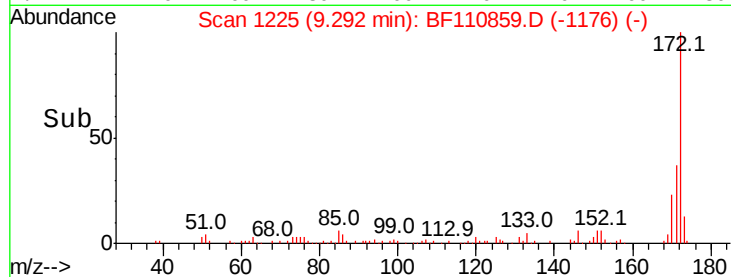
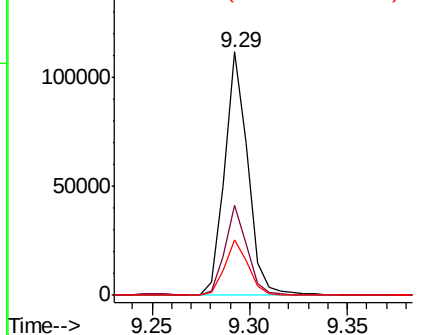


Abundance

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



#46
1,1'-Biphenyl
Concen: 6.076 ng
RT: 9.40 min Scan# 1243
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

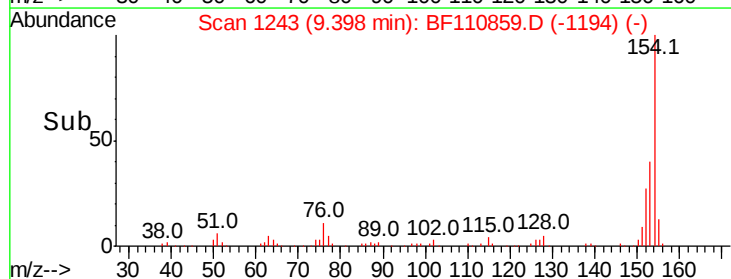
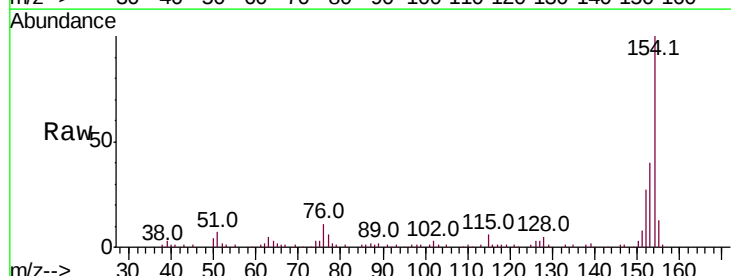
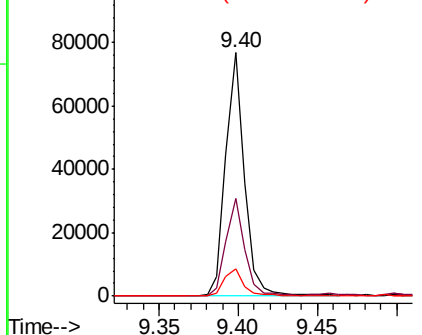
Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.4	60.4
76	11.0	0.0	31.9

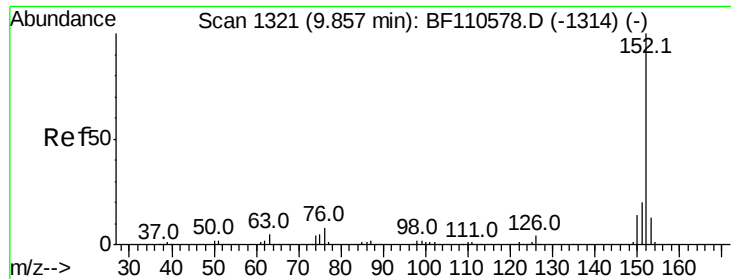
Abundance

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): BF1





#49

Acenaphthylene

Concen: 12.293 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

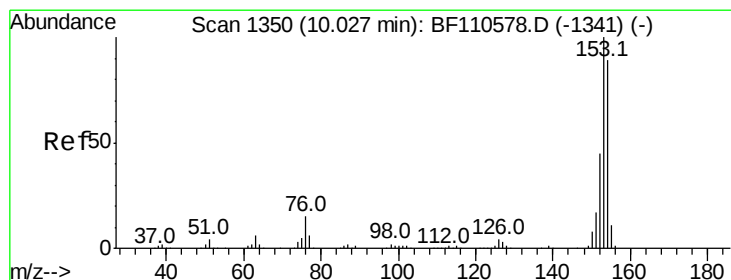
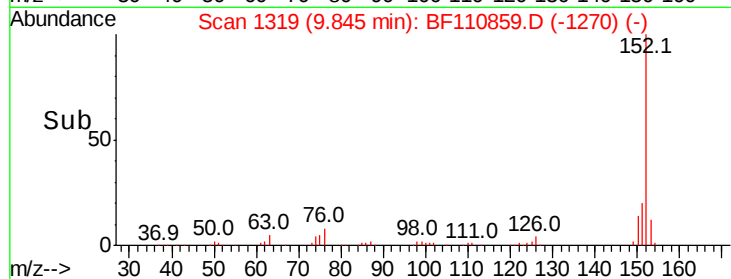
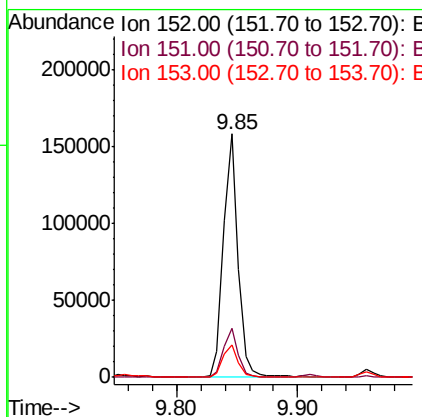
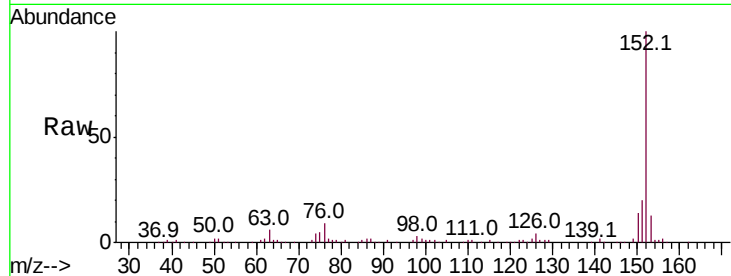
ClientSampleId :

DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.3	10.4	15.6

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#52

Acenaphthene

Concen: 2.681 ng

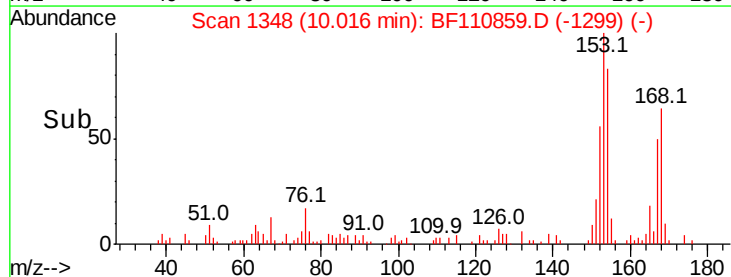
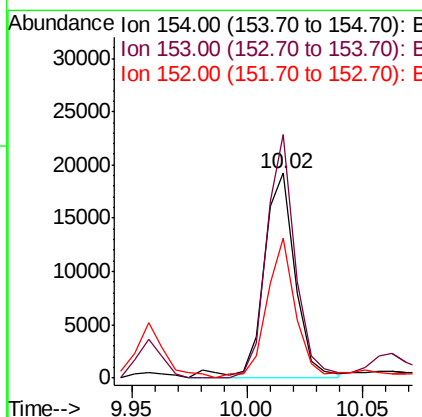
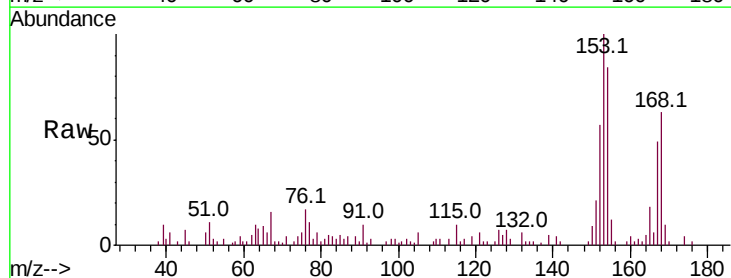
RT: 10.02 min Scan# 1348

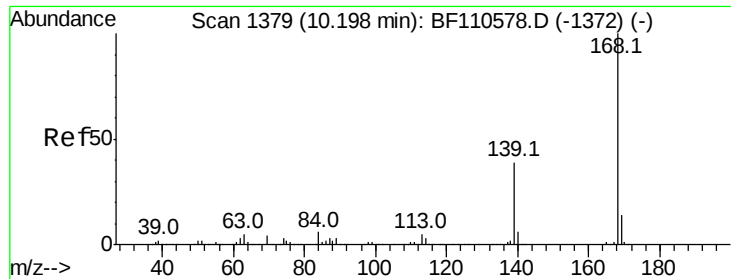
Delta R.T. -0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.9	90.1	135.1
152	68.3	43.4	65.2





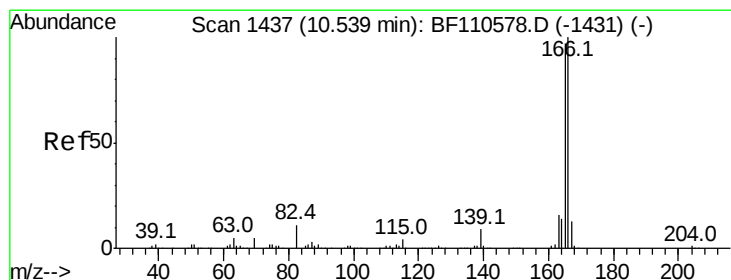
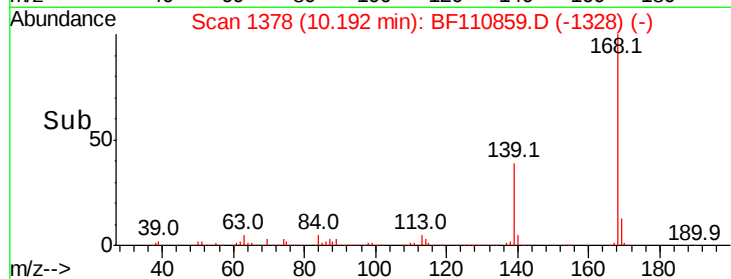
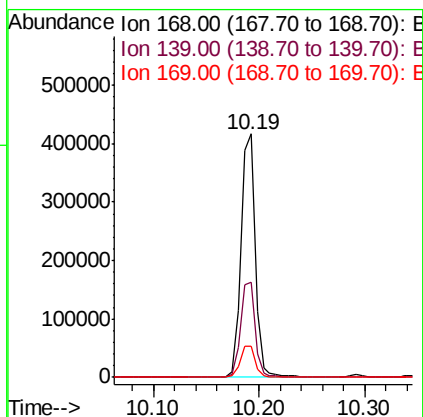
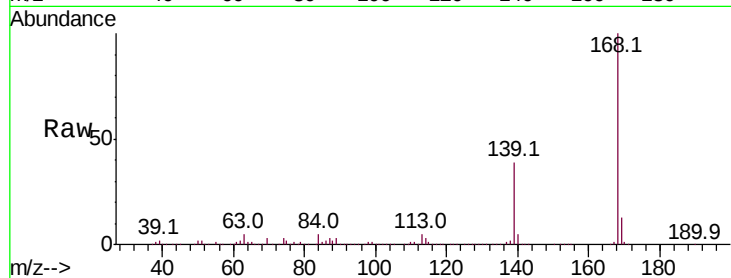
#55
Dibenzenofuran
Concen: 38.531 ng
RT: 10.19 min Scan# 1378
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.1	33.0	49.6
169	13.0	11.3	16.9

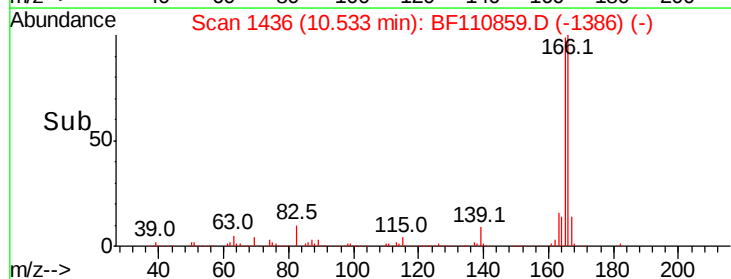
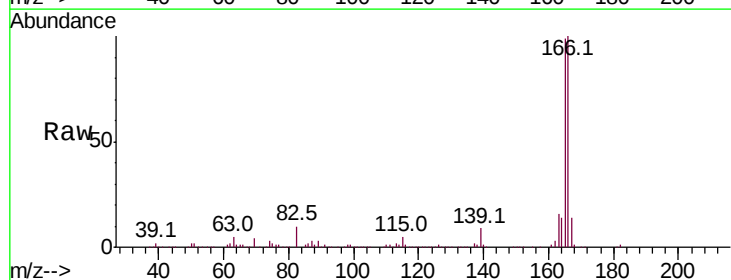
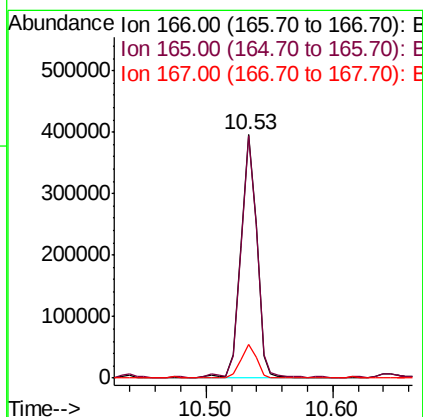
Manual Integrations
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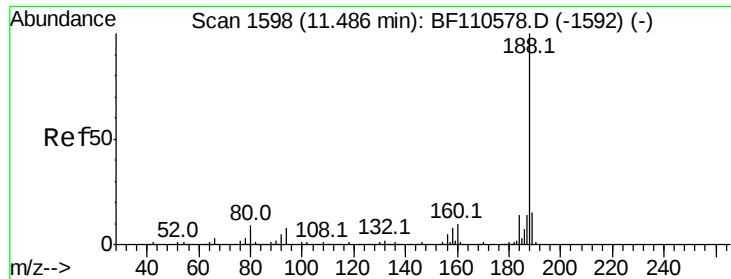
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#58
Fluorene
Concen: 44.698 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	78.6	117.8
167	13.6	10.8	16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

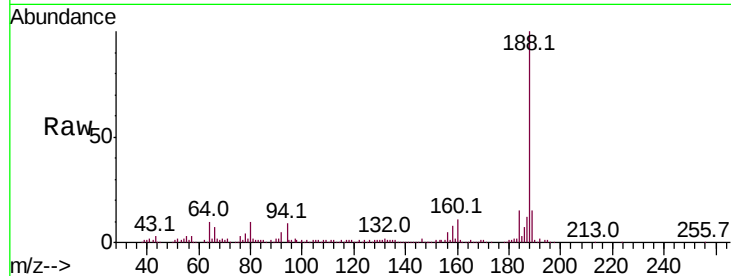
ClientSampleId :

DTW-03(8-10)

Tot Ion:	188	Resp:	169433
Ion Ratio	Lower	Upper	
188	100		
94	9.2	7.2	10.8
80	9.6	7.9	11.9

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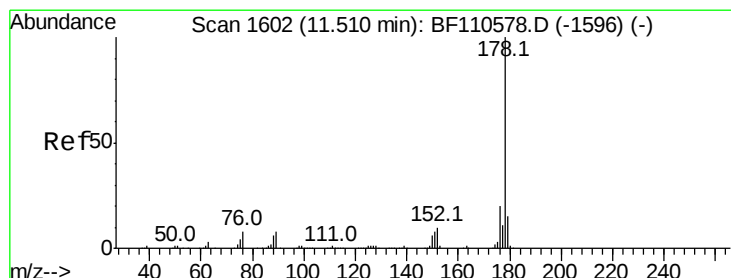
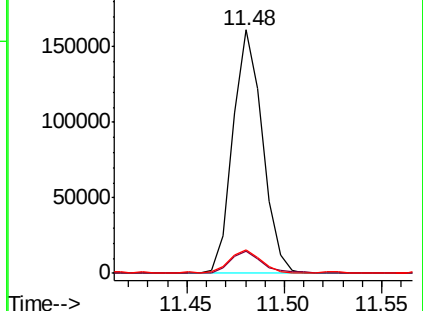
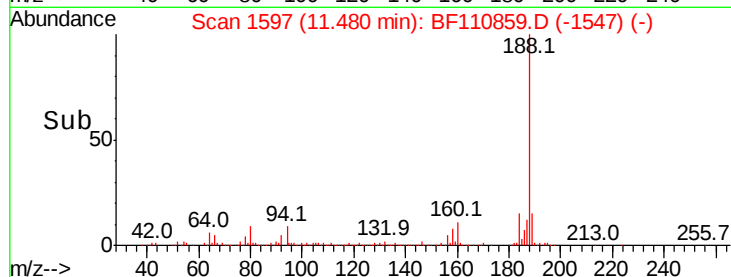
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 203.778 ng

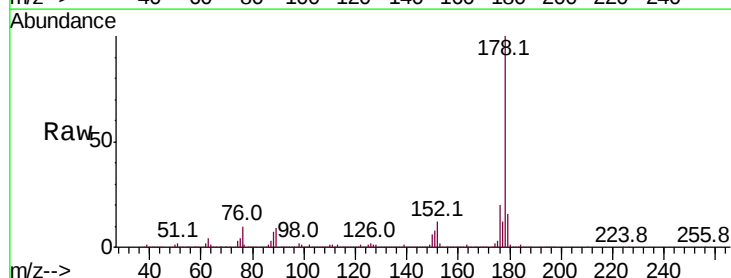
RT: 11.52 min Scan# 1603

Delta R.T. 0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

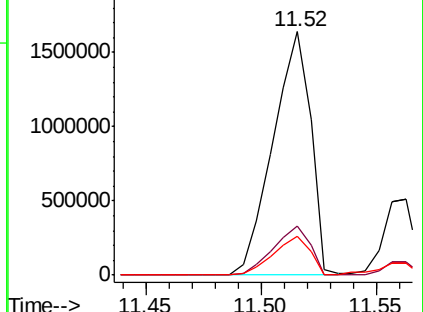
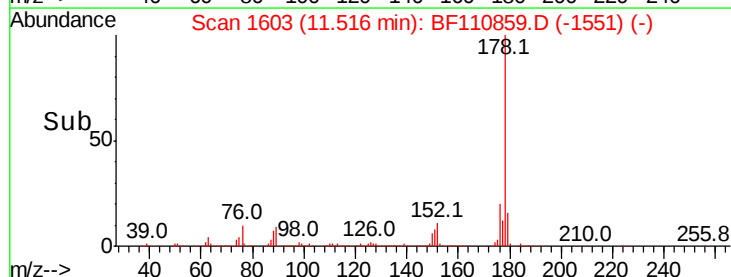
Tgt Ion:	178	Resp:	1849765
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.5	23.3
179	15.9	12.5	18.7

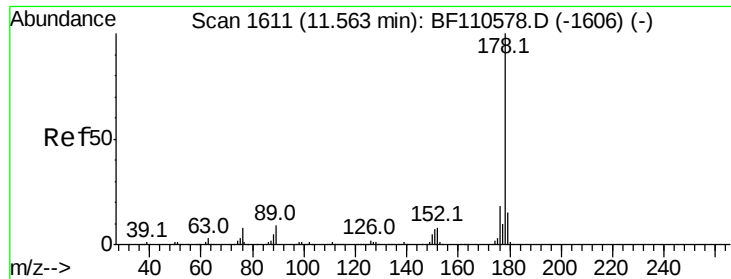


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 50.986 ng

RT: 11.56 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

ClientSampleId :

DTW-03(8-10)

Tot Ion:178 Resp: 466868

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

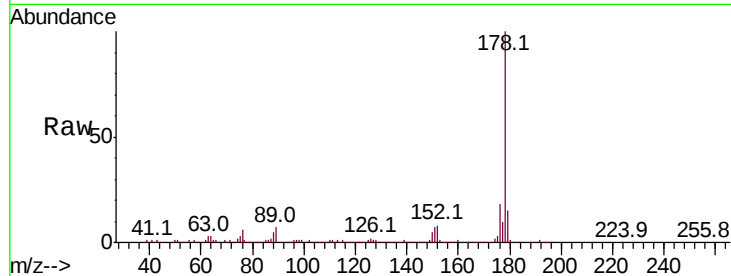
179 15.0 12.6 18.8

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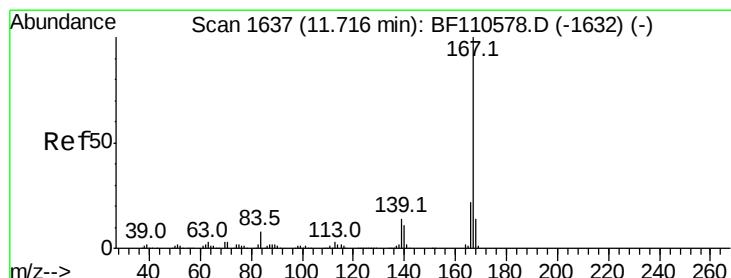
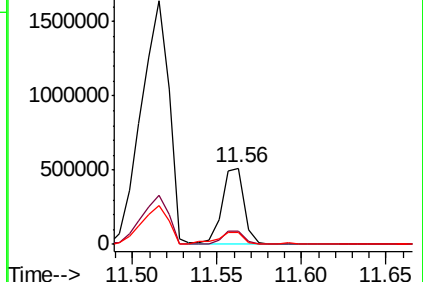
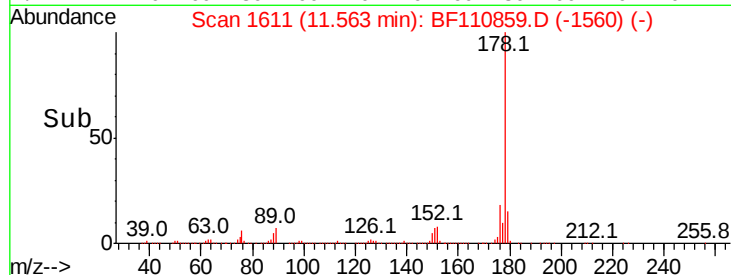
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 4.444 ng

RT: 11.72 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

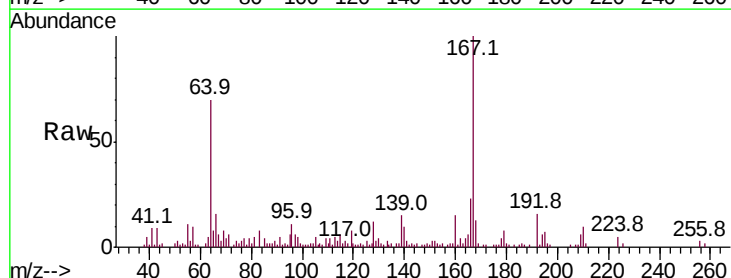
Tgt Ion:167 Resp: 39081

Ion Ratio Lower Upper

167 100

166 23.3 17.4 26.0

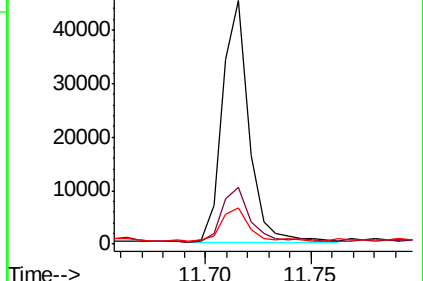
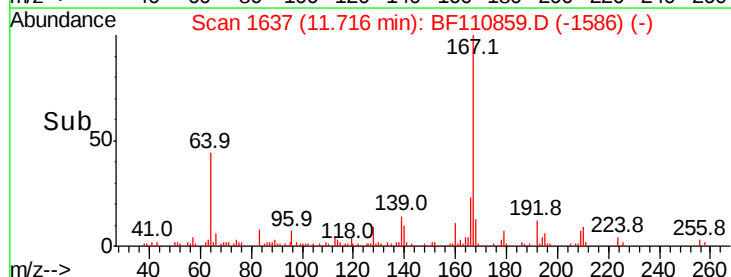
139 15.0 10.9 16.3

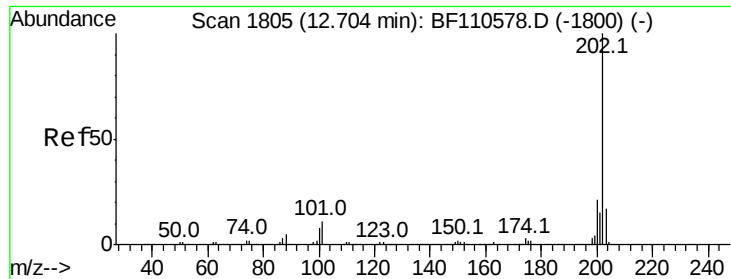


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 110.396 ng

RT: 12.71 min Scan# 1806

Delta R.T. 0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

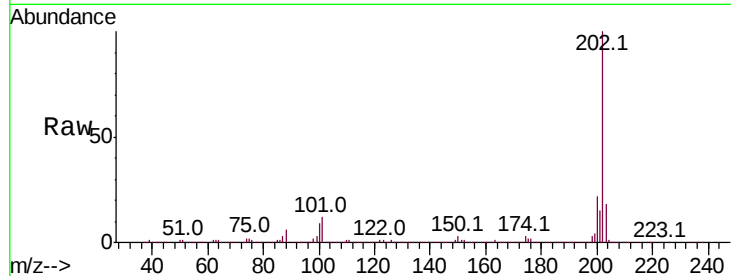
ClientSampled :

DTW-03(8-10)

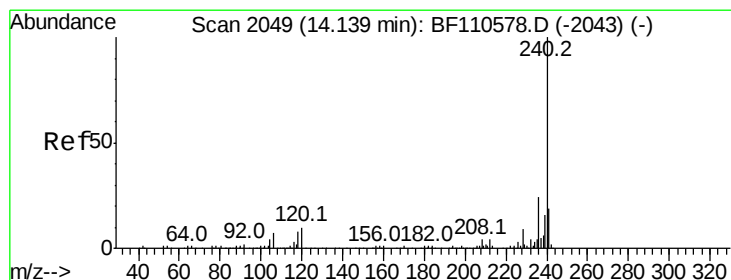
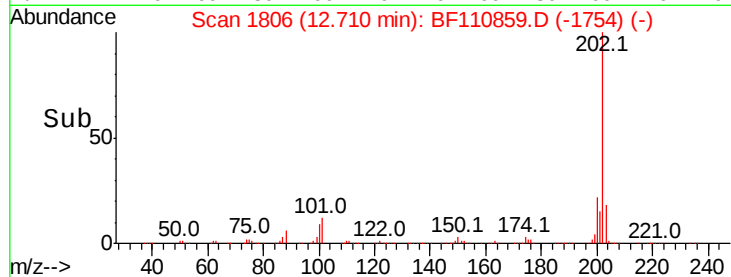
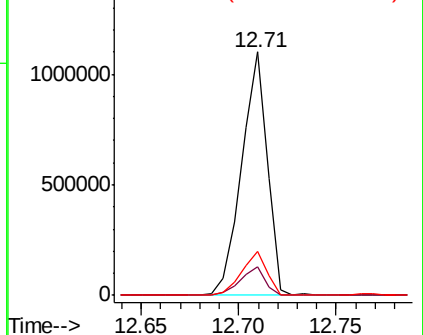
Tot Ion:	202	Resp:	1004677
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	31.4
203	17.9	0.0	37.7

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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



#76

Chrysene-d12

Concen: 20.000 ng

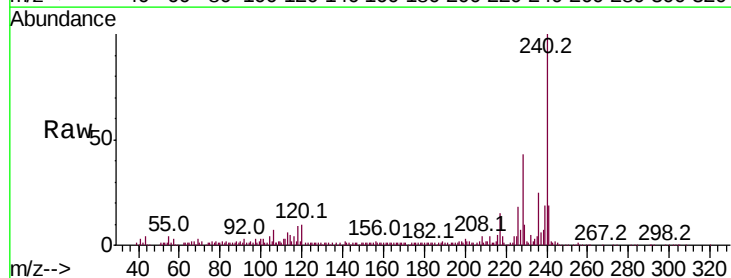
RT: 14.14 min Scan# 2049

Delta R.T. 0.00 min

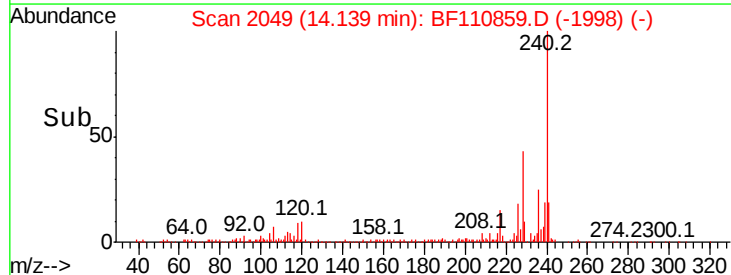
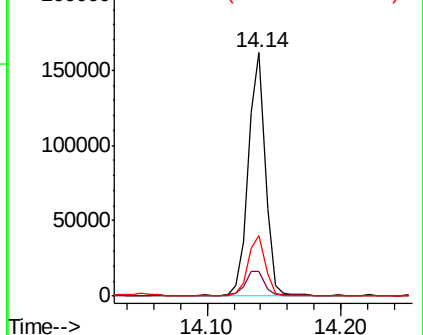
Lab File: BF110859.D

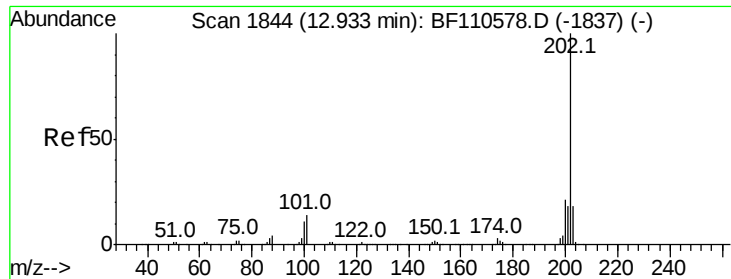
Acq: 19 Nov 2018 17:59

Tgt Ion:	240	Resp:	139363
Ion Ratio	Lower	Upper	
240	100		
120	9.9	8.3	12.5
236	25.0	21.2	31.8



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





#78

Pvrene

Concen: 68.241 ng

RT: 12.94 min Scan# 1845

Delta R.T. 0.01 min

Lab File: BF110859.D

Acq: 19 Nov 2018 17:59

Instrument :

BNA_F

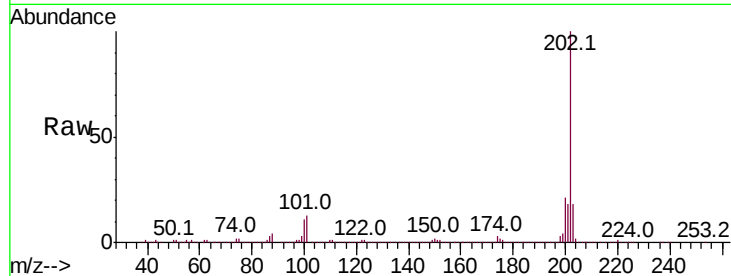
ClientSampleID :

DTW-03(8-10)

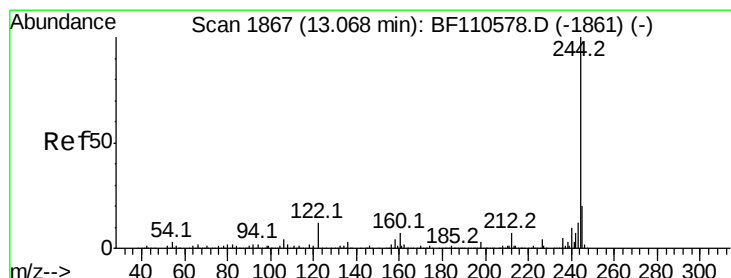
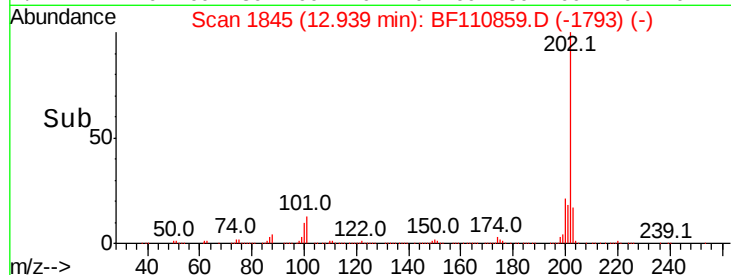
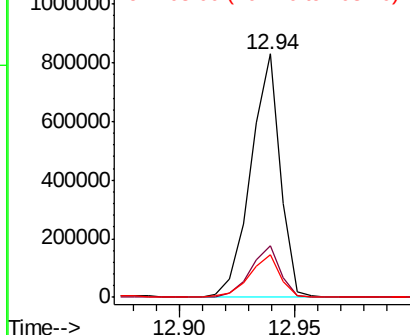
Tot Ion:	202	Resp:	732272
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.8	26.6
203	17.6	14.2	21.4

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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



#79

Terphenyl-d14

Concen: 9.740 ng

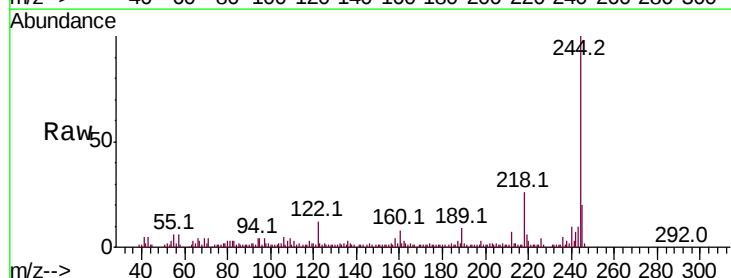
RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

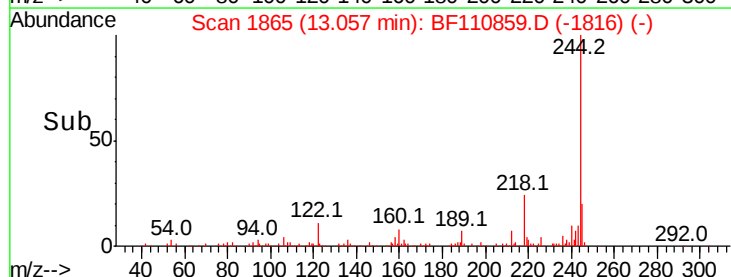
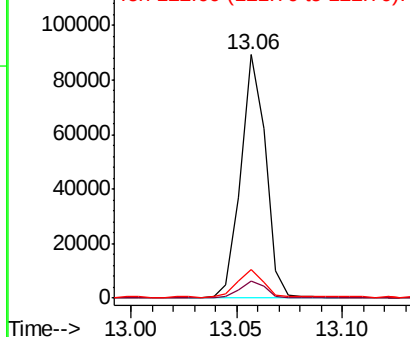
Lab File: BF110859.D

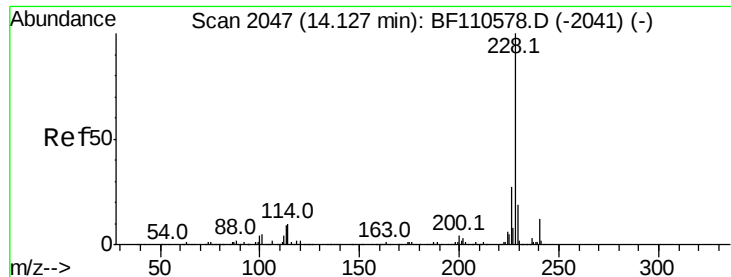
Acq: 19 Nov 2018 17:59

Tgt Ion:	244	Resp:	72482
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.8	8.8
122	11.7	8.7	13.1



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





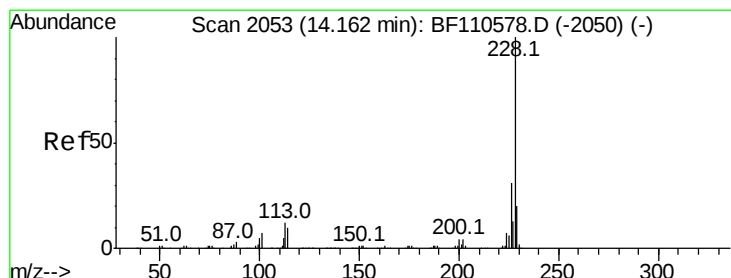
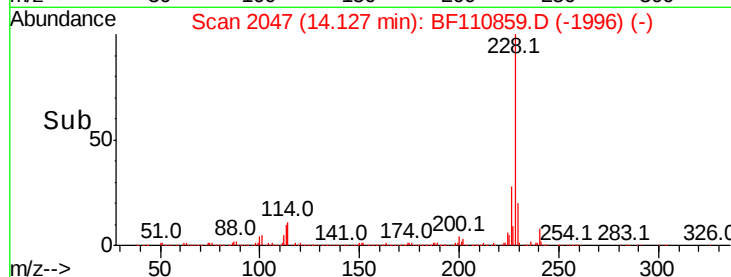
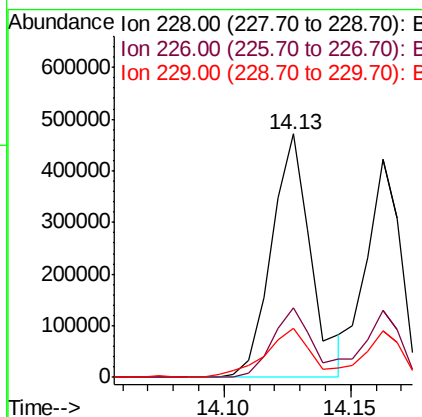
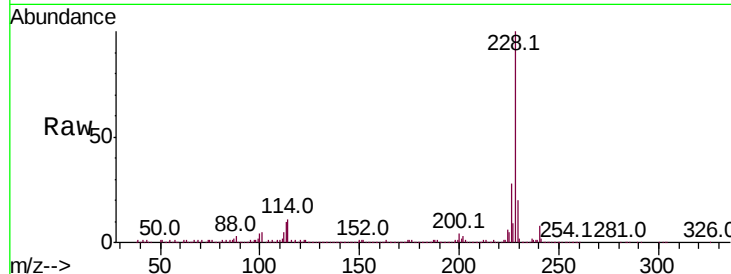
#81
Benzo(a)anthracene
Concen: 60.978 ng
RT: 14.13 min Scan# 2047
Delta R.T. 0.00 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.1	33.1
229	20.3	15.6	23.4

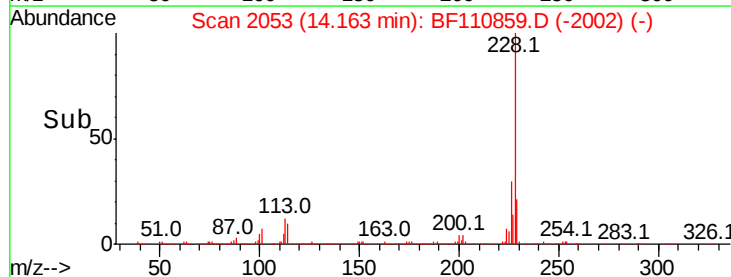
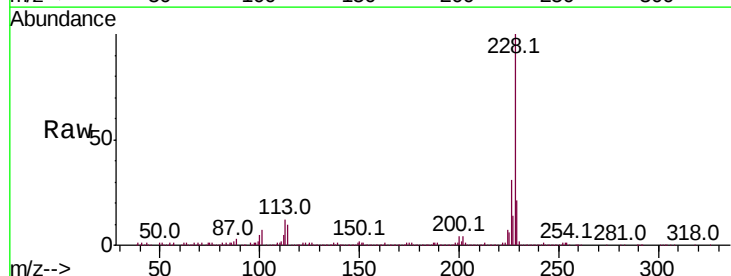
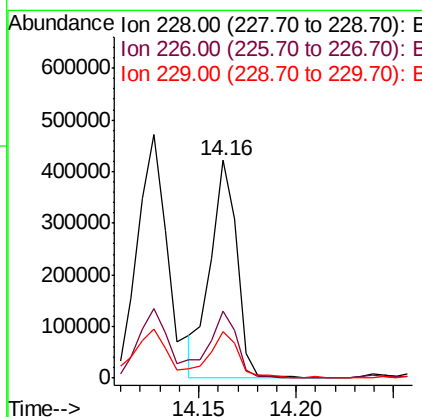
Manual Integrations
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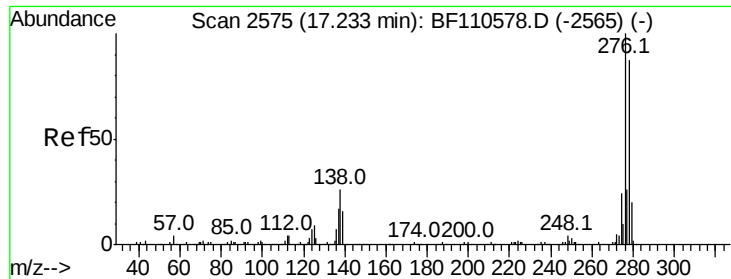
Sohil
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#83
Chrysene
Concen: 49.610 ng
RT: 14.16 min Scan# 2053
Delta R.T. 0.00 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	21.4	15.9	23.9





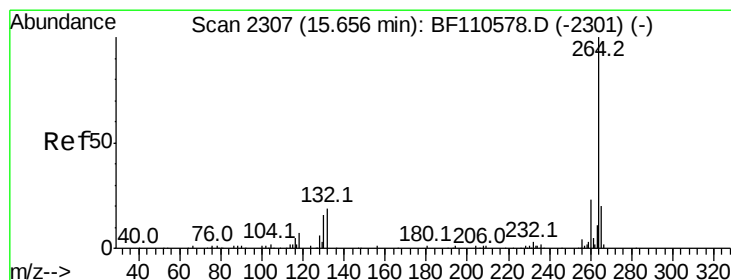
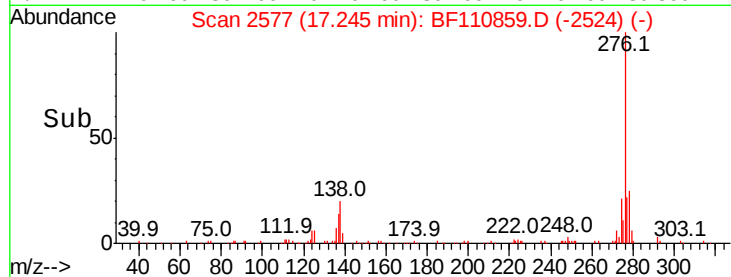
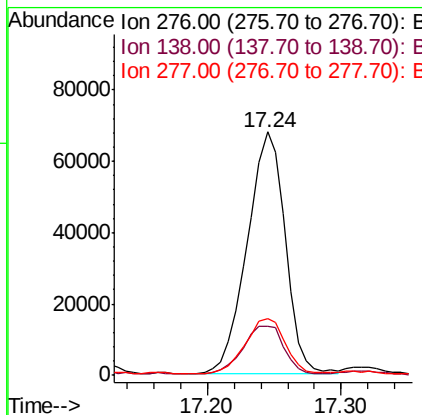
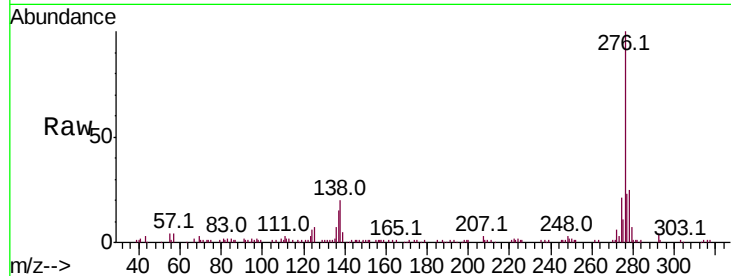
#86
Indeno(1,2,3-cd)pyrene
Concen: 23.469 ng
RT: 17.24 min Scan# 2577
Delta R.T. 0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.5	27.7
277	23.8	20.0	30.0

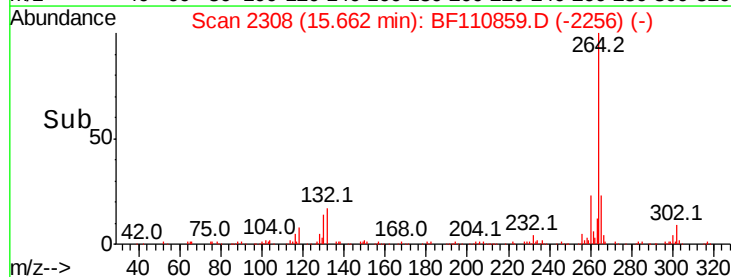
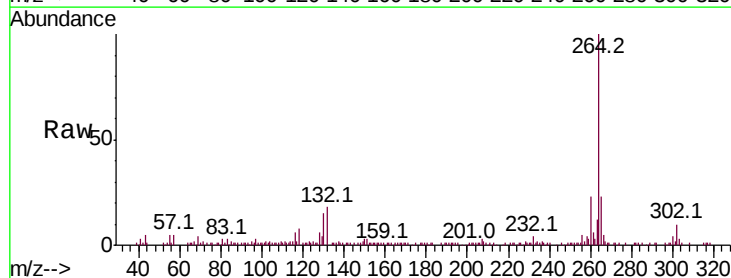
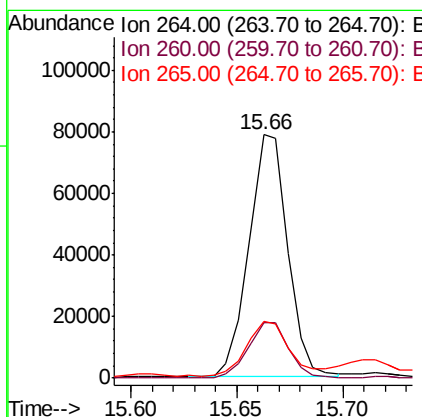
Manual Integrations
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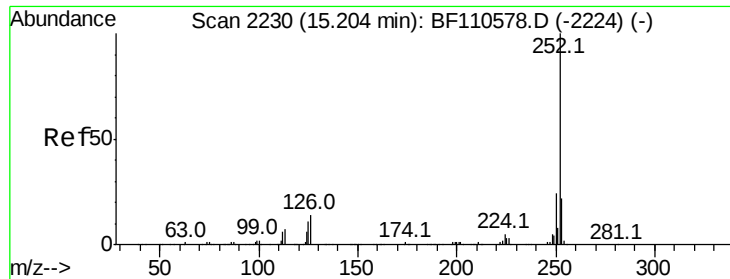
Sohil
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.7	28.1
265	23.1	16.7	25.1





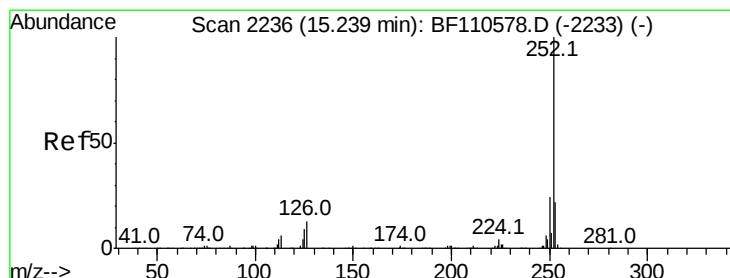
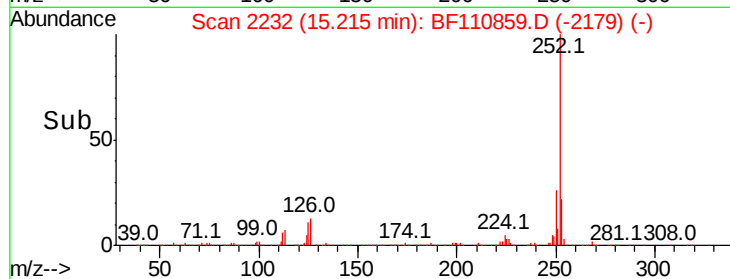
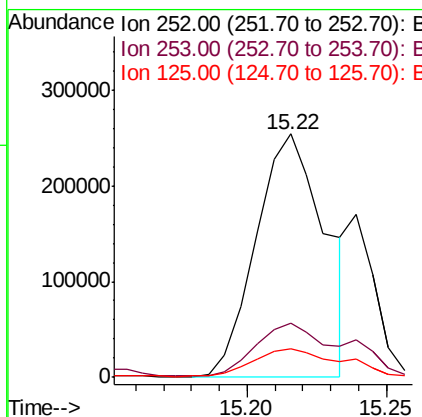
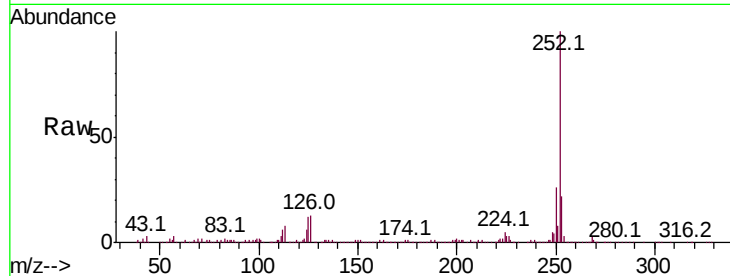
#88
Benzo(b)fluoranthene
Concen: 72.879 ng m
RT: 15.22 min Scan# 2232
Delta R.T. 0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.2	25.8
125	11.9	8.2	12.4

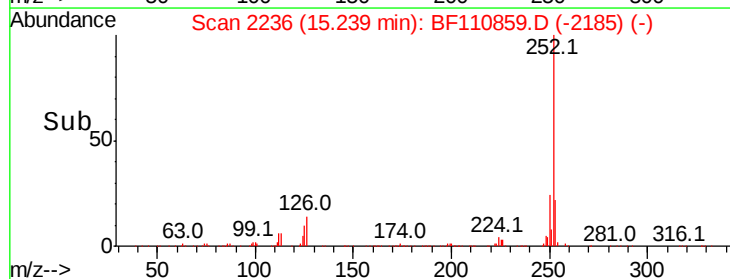
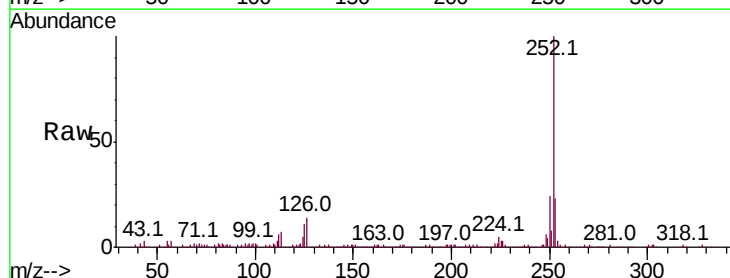
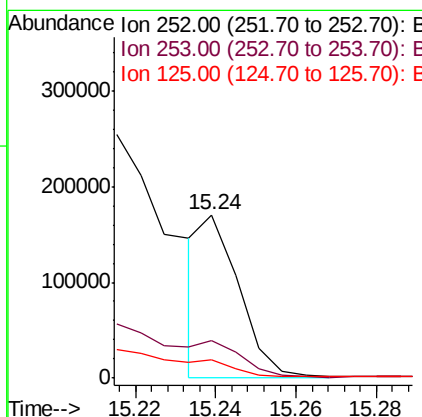
Manual Integrations
APPROVED

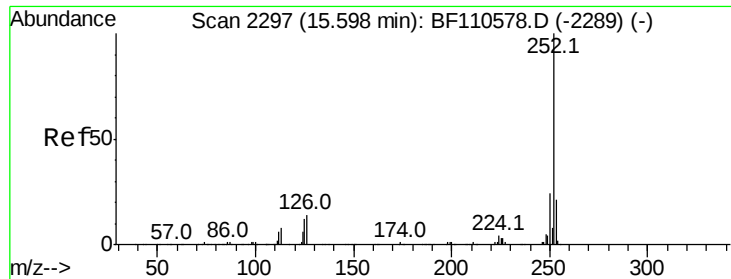
Sohil
11/20/2018 11:07:41 AM



#89
Benzo(k)fluoranthene
Concen: 18.981 ng m
RT: 15.24 min Scan# 2236
Delta R.T. 0.00 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	11.1	7.4	11.0#





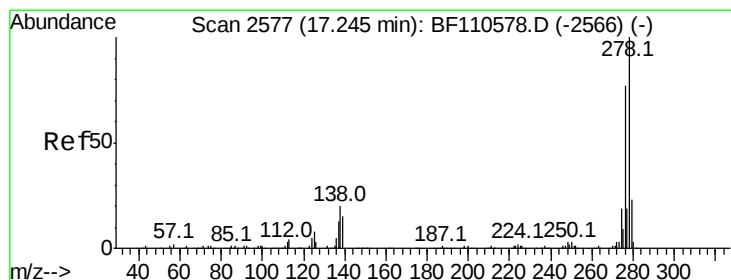
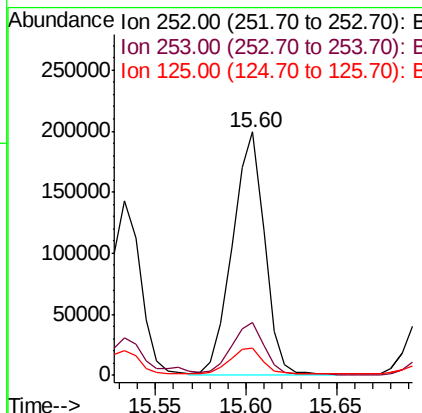
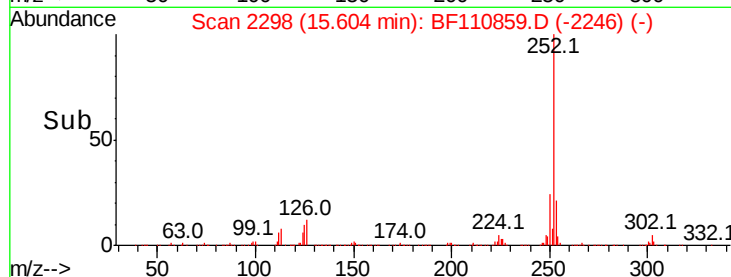
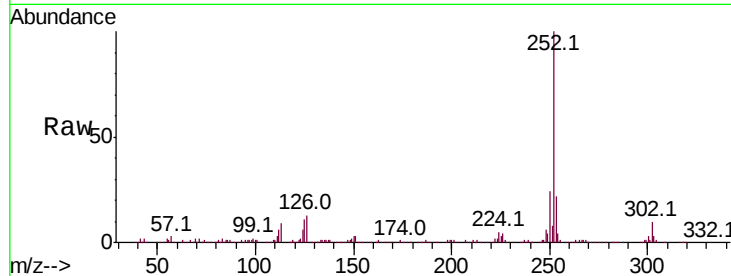
#90
Benzo(a)pyrene
Concen: 44.640 ng
RT: 15.60 min Scan# 2298
Delta R.T. 0.01 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Instrument :
BNA_F
ClientSampleId :
DTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.2	27.4
125	11.1	9.0	13.6

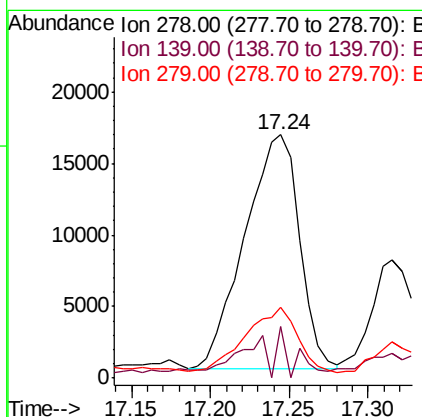
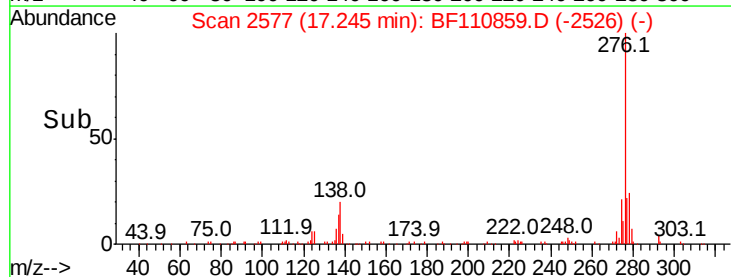
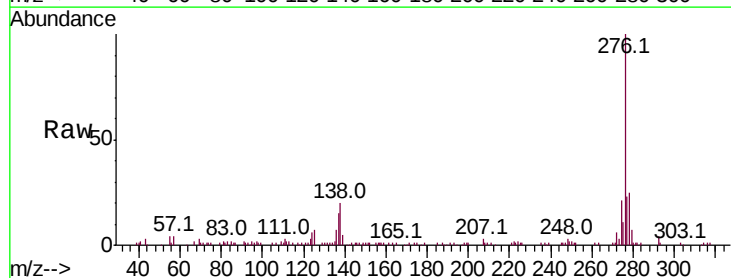
Manual Integrations
APPROVED

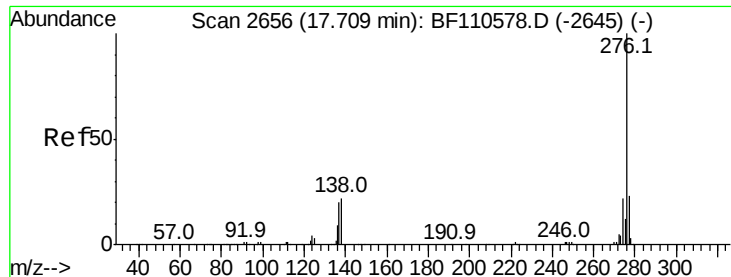
Sohil
11/20/2018 11:07:41 AM



#91
Dibenzo(a,h)anthracene
Concen: 8.542 ng m
RT: 17.24 min Scan# 2577
Delta R.T. 0.00 min
Lab File: BF110859.D
Acq: 19 Nov 2018 17:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.4	12.7	19.1#
279	29.1	19.0	28.4#





#92
 Benzo(a,h,i)perylene
 Concen: 24.196 ng
 RT: 17.73 min Scan# 2659
 Delta R.T. 0.02 min
 Lab File: BF110859.D
 Acq: 19 Nov 2018 17:59

Instrument :
 BNA_F
 ClientSampleId :
 DTW-03(8-10)

Tot Ion:	276	Resp:	111147
Ion Ratio	Lower	Upper	
276	100		
277	23.7	18.8	28.2
138	20.7	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 11/20/2018 11:07:41 AM

