

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
 Data File : BF110851.D
 Acq On : 19 Nov 2018 14:24
 Operator : JU/SJ
 Sample : J5977-12 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-01(3-5)

Manual Integrations
 APPROVED

Sohil
 11/20/2018 11:07:29 AM

Quant Time: Nov 19 15:58:26 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	65420	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	277920	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	125062	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	205304	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	148871	20.00	ng	-0.01
87) Perylene-d12	15.66	264	156795	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	35649	8.85	ng	0.00
7) Phenol-d6	6.57	99	48469	9.41	ng	0.00
23) Nitrobenzene-d5	7.52	82	29996	6.22	ng	0.00
42) 2,4,6-Tribromophenol	10.78	330	10059	7.98	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	60621	6.92	ng	-0.01
79) Terphenyl-d14	13.06	244	40592	5.11	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.25	128	141152	10.819	ng	99
37) 2-Methylnaphthalene	8.94	142	50897	5.951	ng	96
38) 1-Methylnaphthalene	9.04	142	38901m	4.729	ng	
49) Acenaphthylene	9.85	152	111357	9.200	ng	99
55) Dibenzofuran	10.19	168	77455	6.921	ng	97
58) Fluorene	10.53	166	138683	16.133	ng	100
71) Phenanthrene	11.50	178	836216	76.026	ng	100
72) Anthracene	11.55	178	194153	17.498	ng	99
73) Carbazole	11.71	167	45151	4.237	ng	98
75) Fluoranthene	12.70	202	608209	55.154	ng	99
78) Pyrene	12.93	202	566343	49.407	ng	99
81) Benzo(a)anthracene	14.12	228	274114	30.806	ng	95
83) Chrysene	14.16	228	235709	27.805	ng	98
86) Indeno(1,2,3-cd)pyrene	17.23	276	99096	16.290	ng	97
88) Benzo(b)fluoranthene	15.20	252	268591m	28.634	ng	
89) Benzo(k)fluoranthene	15.23	252	101096m	10.907	ng	
90) Benzo(a)pyrene	15.60	252	211927	24.867	ng	99
91) Dibenzo(a,h)anthracene	17.23	278	28887m	4.005	ng	
92) Benzo(a,h,i)perylene	17.72	276	86209	12.048	ng	# 94

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

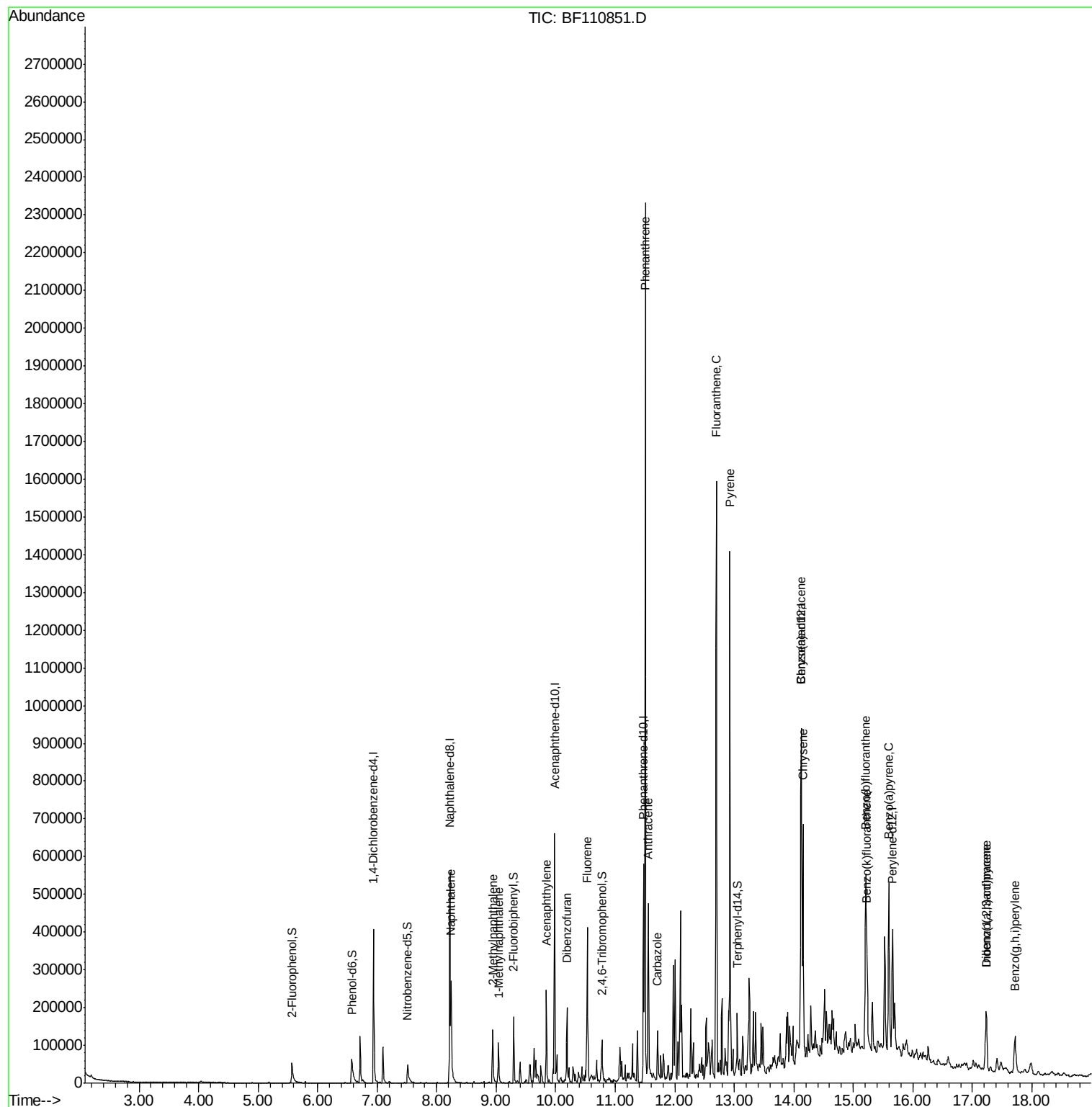
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
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Sample : J5977-12 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

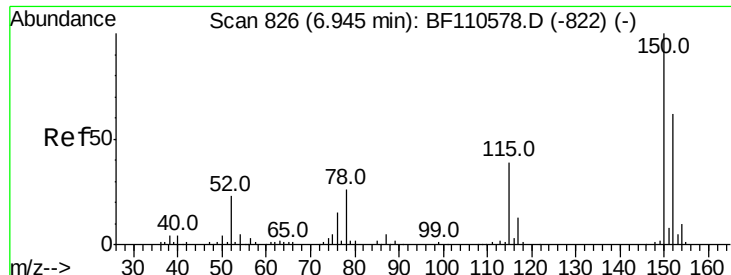
Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Manual Integrations
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#1

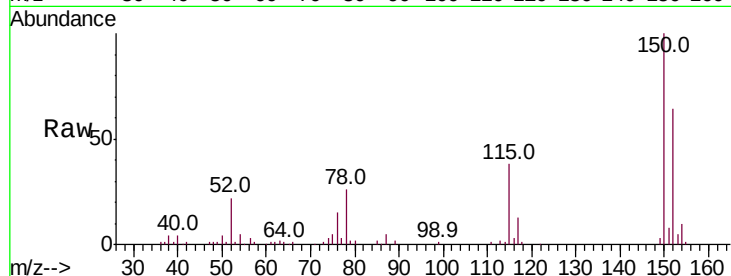
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	122.7	184.1
115	60.4	49.1	73.7

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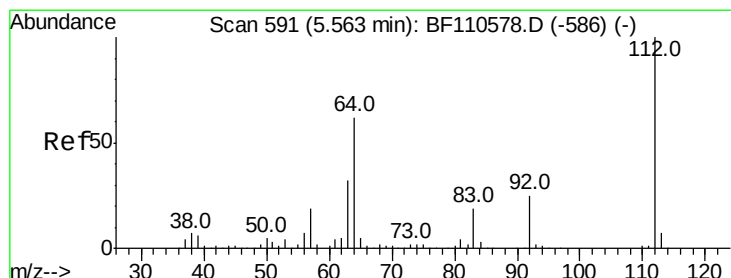
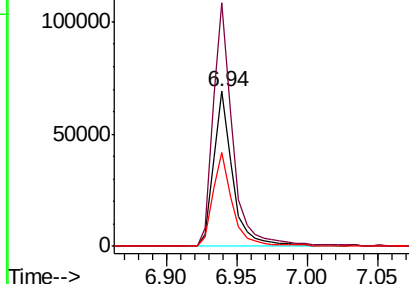
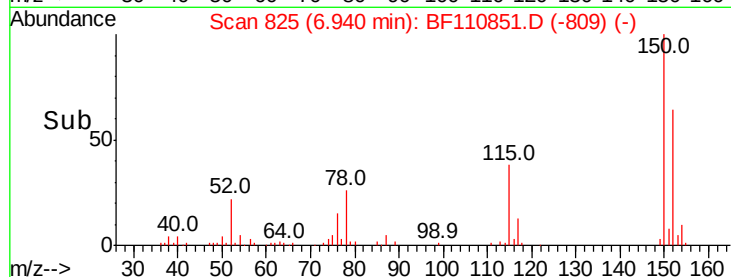


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

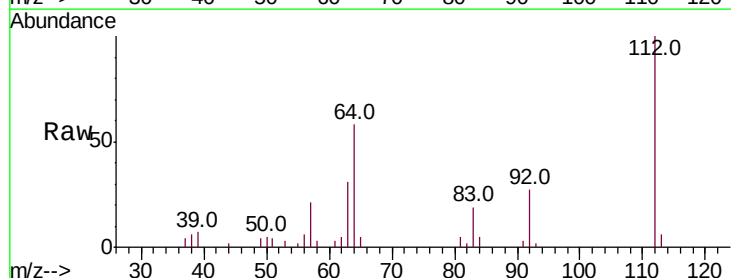
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 8.851 ng
RT: 5.57 min Scan# 592
Delta R.T. 0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	44.1	66.1
63	31.2	23.7	35.5

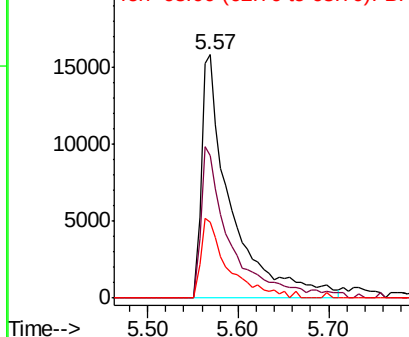
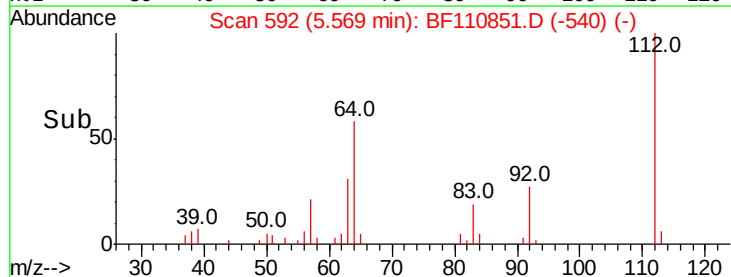


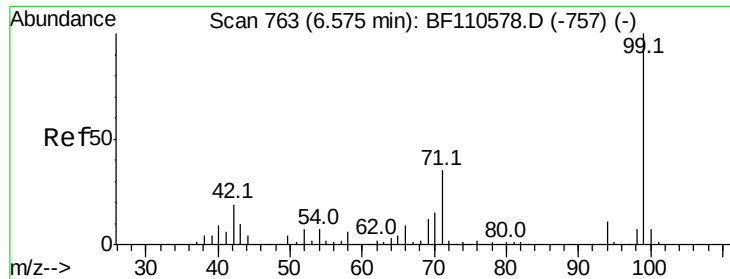
Abundance

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: 9.411 ng

RT: 6.57 min Scan# 763

Delta R.T. 0.00 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Instrument :

BNA_F

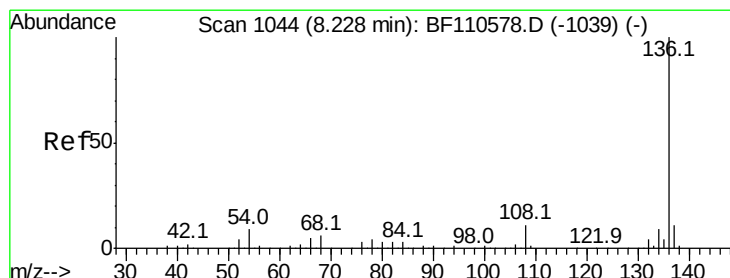
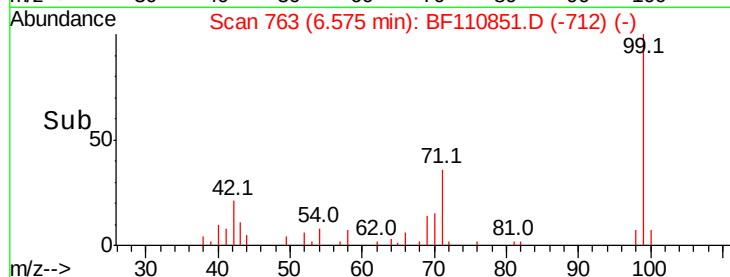
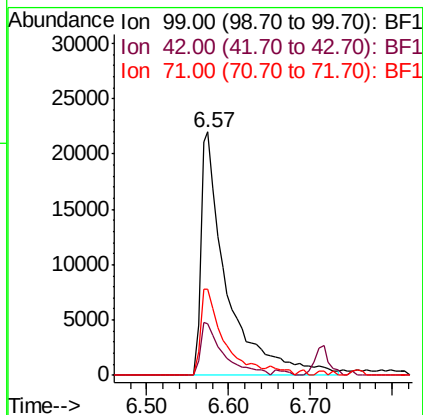
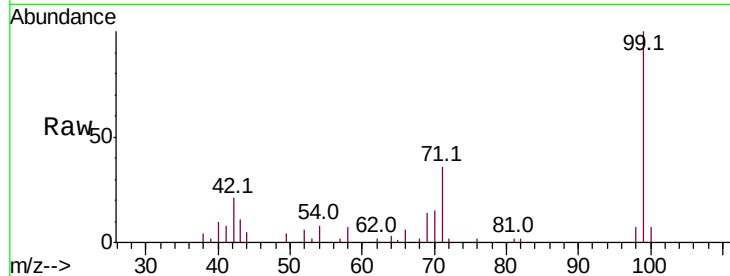
ClientSampleId :

MMTW-01(3-5)

Tot Ion:	99	Resp:	48469
Ion	Ratio	Lower	Upper
99	100		
42	21.2	15.8	23.6
71	35.6	28.0	42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

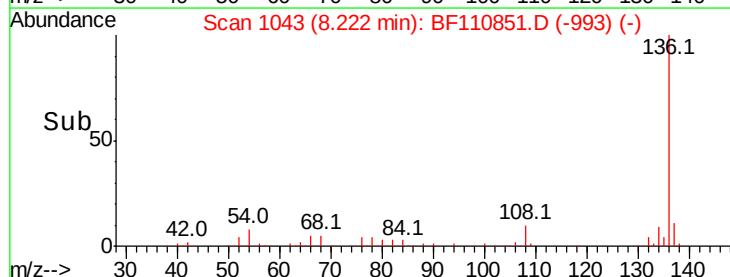
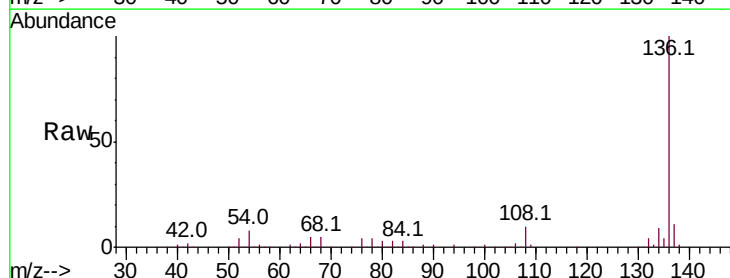
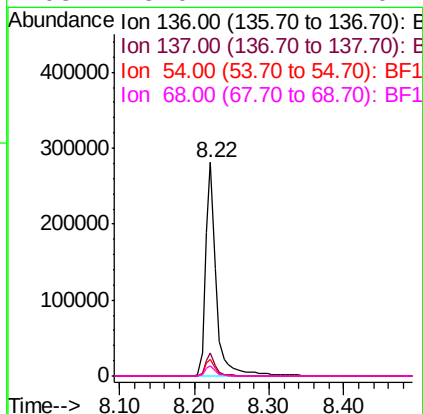
RT: 8.22 min Scan# 1043

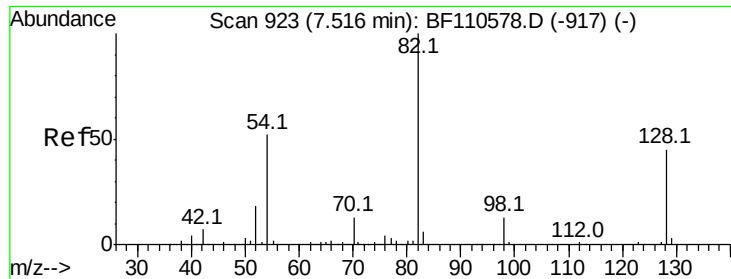
Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Tgt Ion:	136	Resp:	277920
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.7	5.4	8.2
68	5.0	4.2	6.2





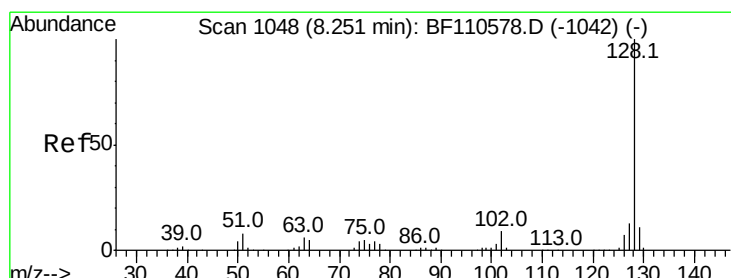
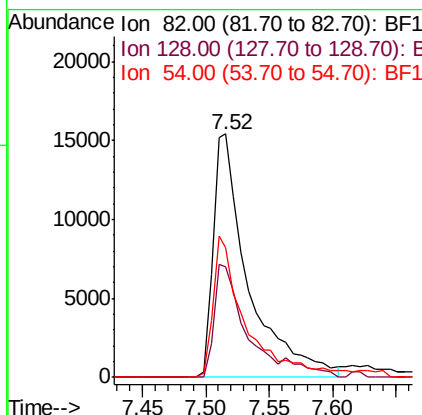
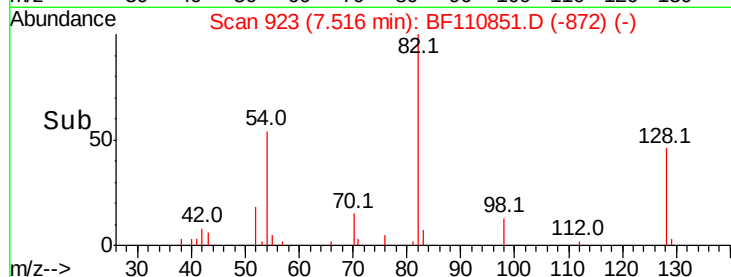
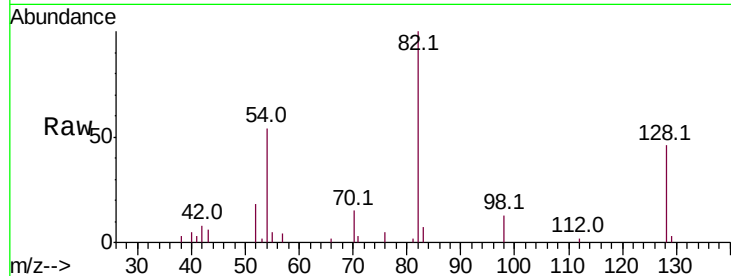
#23
Nitrobenzene-d5
Concen: 6.216 ng
RT: 7.52 min Scan# 923
Delta R.T. 0.00 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.2	51.2
54	53.5	38.6	58.0

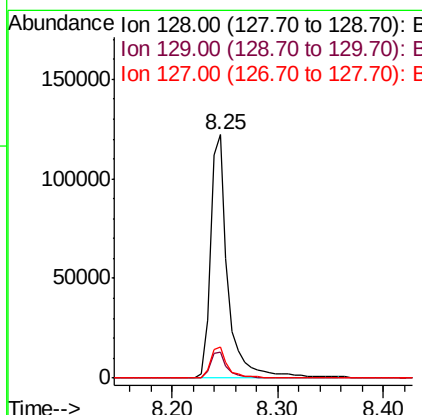
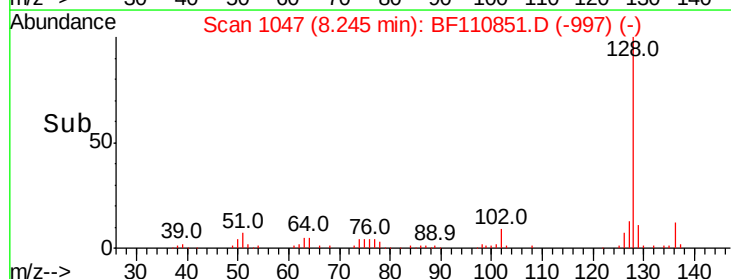
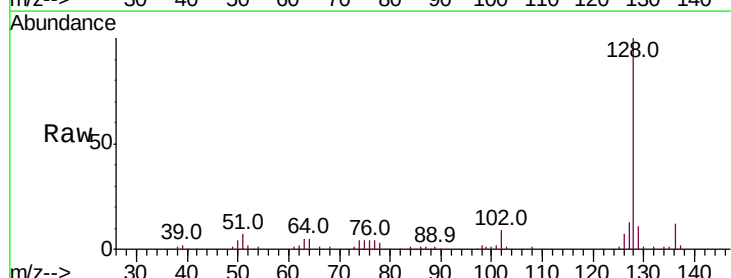
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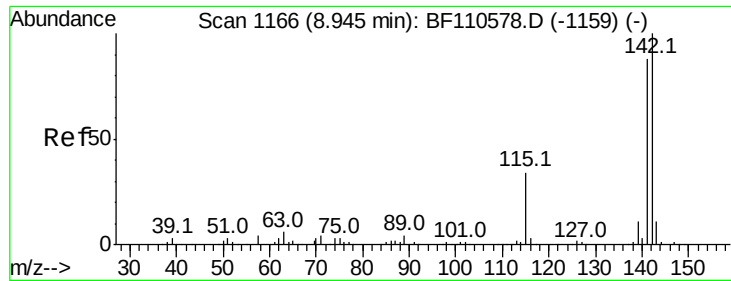
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#31
Naphthalene
Concen: 10.819 ng
RT: 8.25 min Scan# 1047
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.7	10.8	16.2





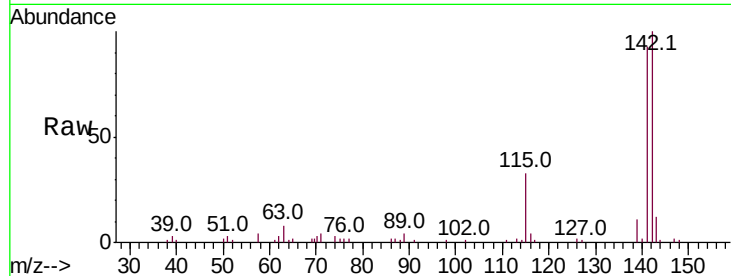
#37
2-Methylnaphthalene
Concen: 5.951 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.8	71.4	107.2
115	33.1	28.7	43.1

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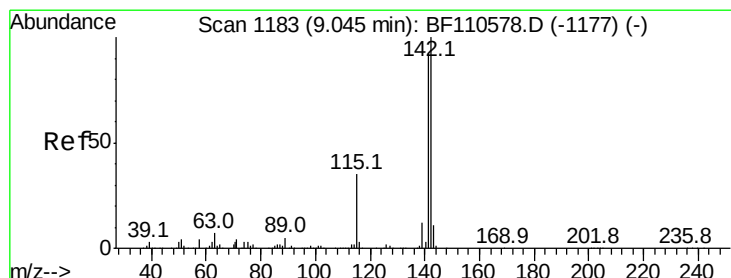
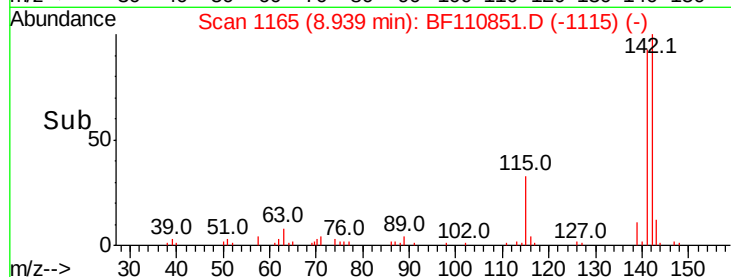
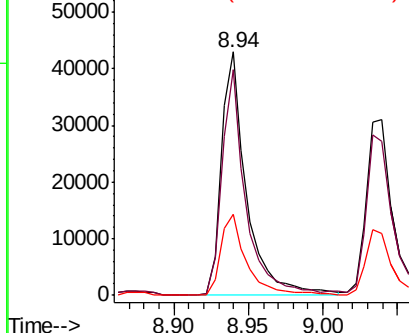


Abundance

Ion 142.00 (141.70 to 142.70): E

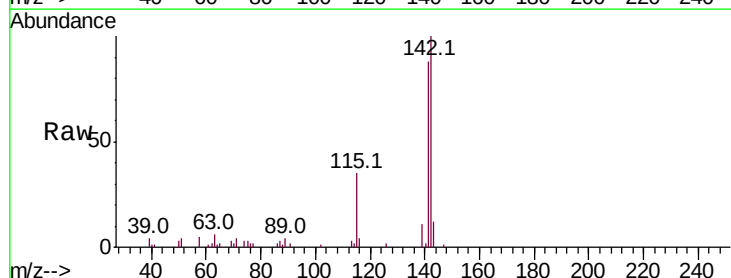
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 4.729 ng m
RT: 9.04 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.7	74.2	111.4
116	4.0	2.6	4.0#

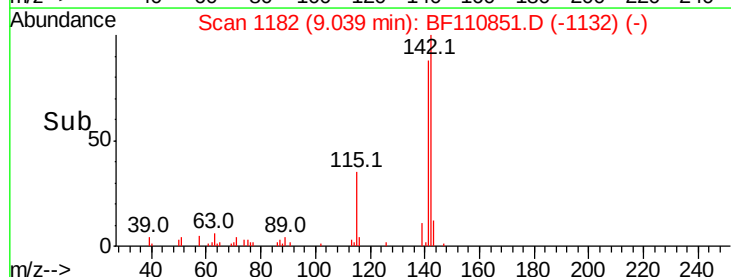
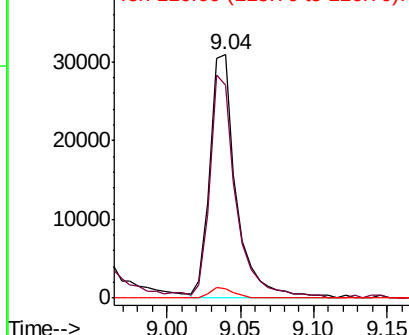


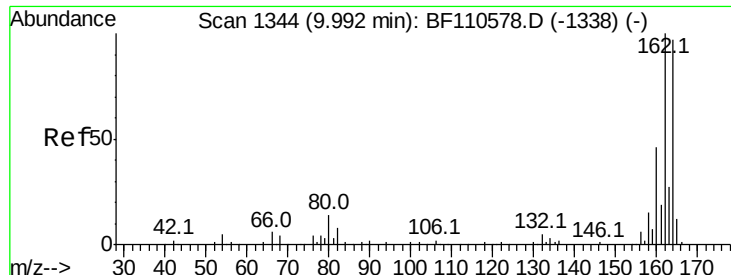
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





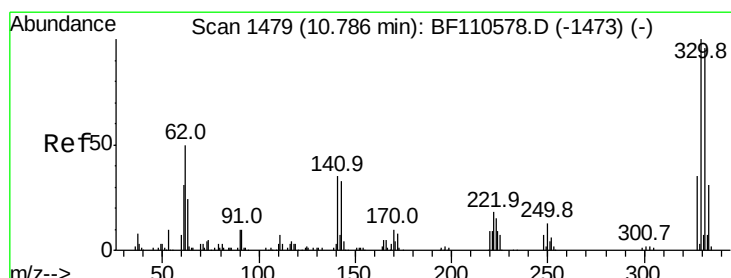
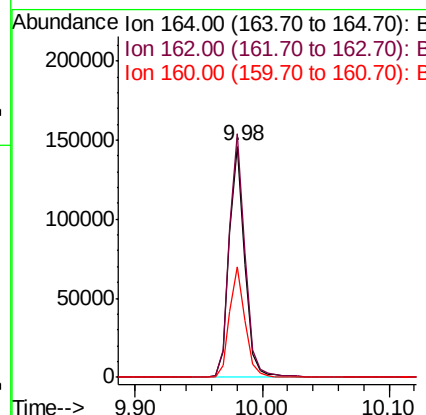
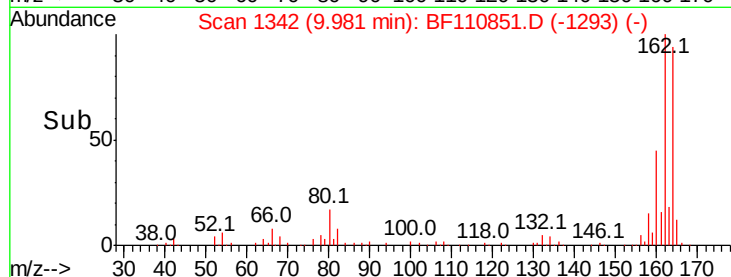
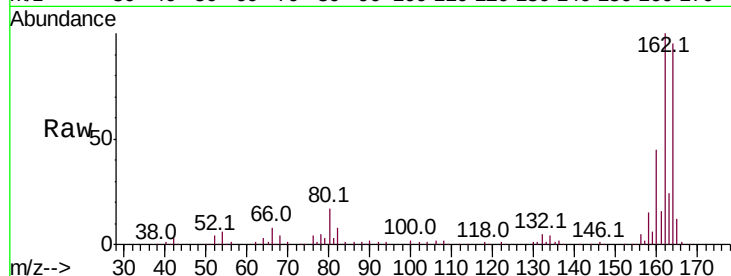
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.3	83.0	124.6
160	47.7	37.0	55.6

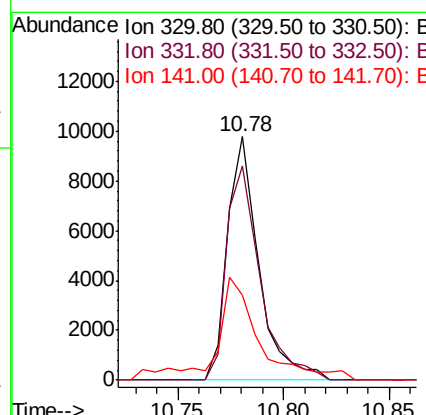
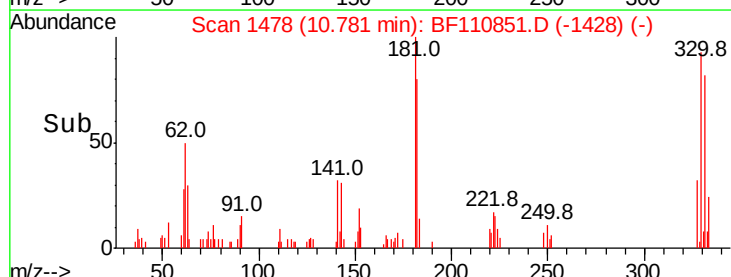
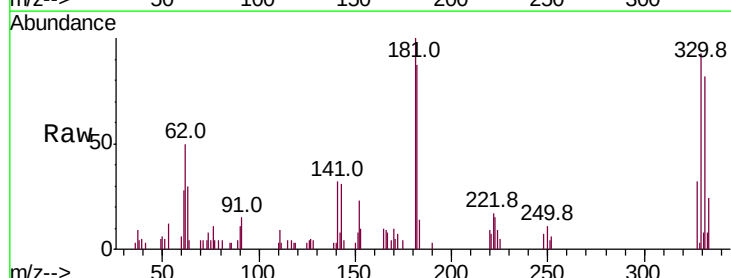
Manual Integrations
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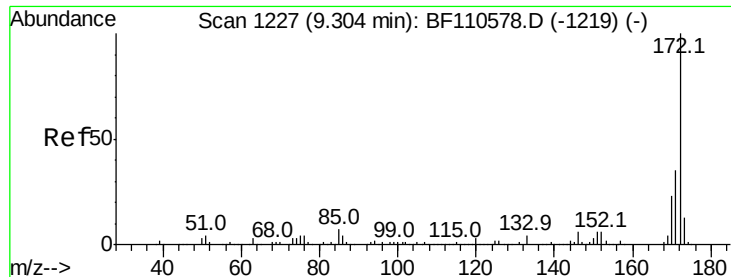
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#42
2,4,6-Tribromophenol
Concen: 7.982 ng
RT: 10.78 min Scan# 1478
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.5	77.1	115.7
141	58.2	27.0	40.4#





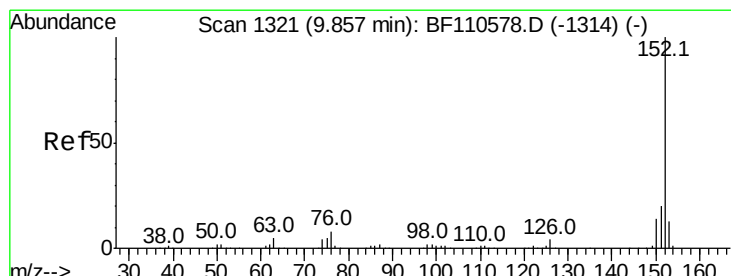
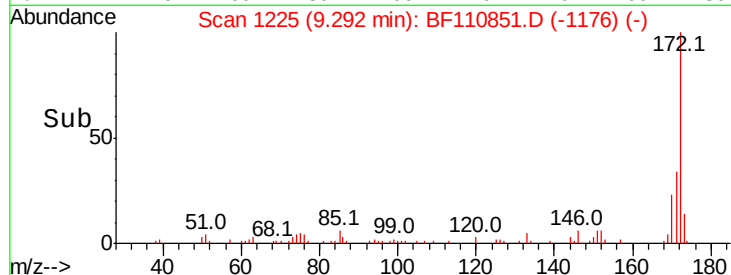
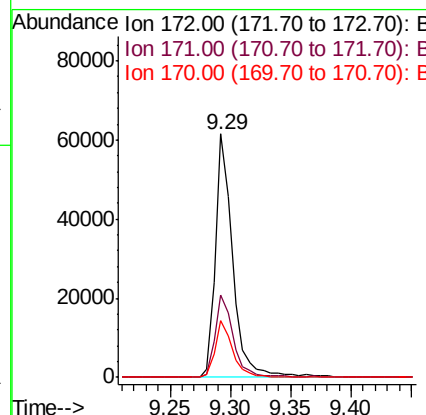
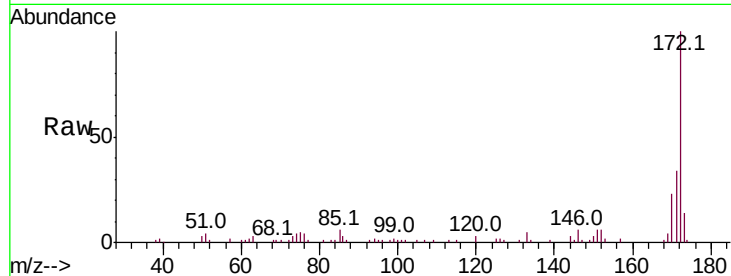
#45
2-Fluorobiphenyl
Concen: 6.923 ng
RT: 9.29 min Scan# 1225
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.6	43.0
170	23.2	19.7	29.5

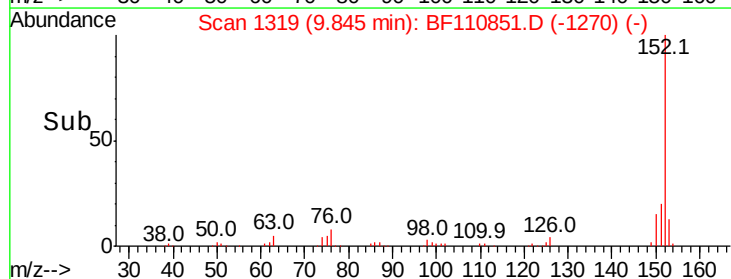
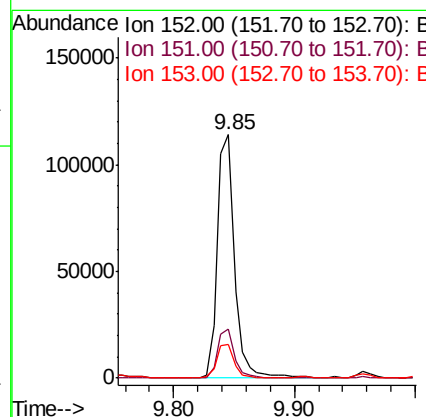
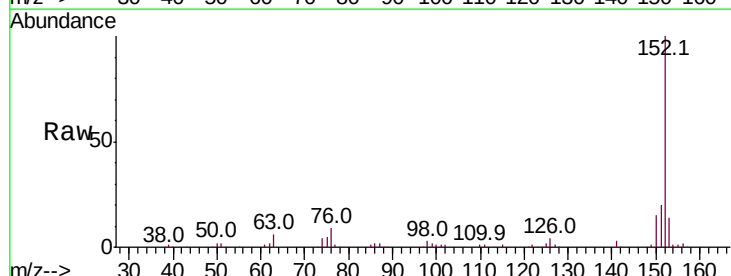
Manual Integrations
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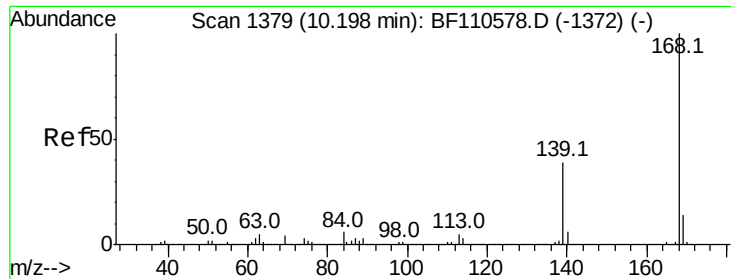
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#49
Acenaphthylene
Concen: 9.200 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	14.0	10.4	15.6





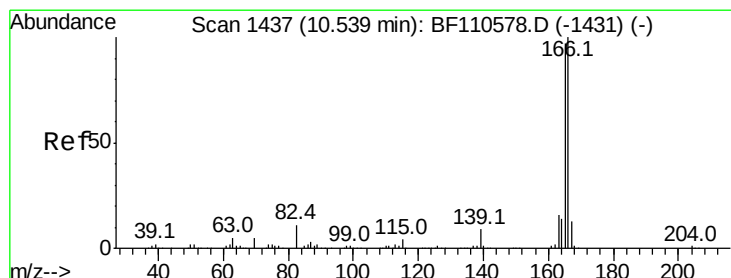
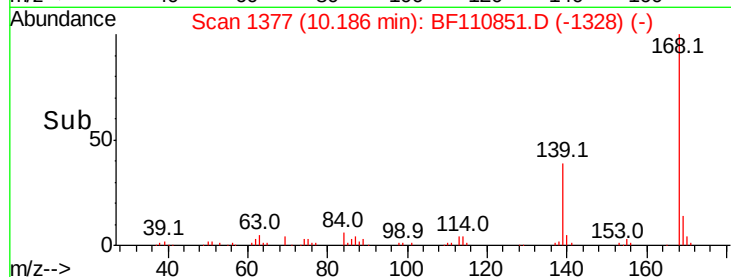
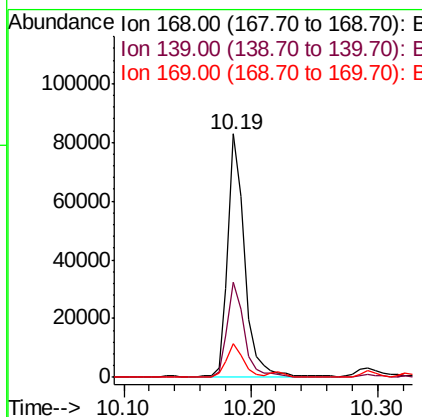
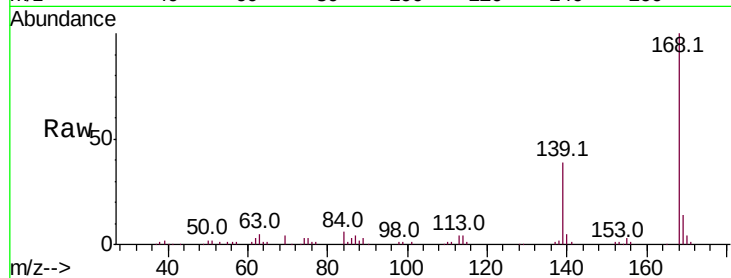
#55
Dibenzenofuran
Concen: 6.921 ng
RT: 10.19 min Scan# 1377
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.2	33.0	49.6
169	13.9	11.3	16.9

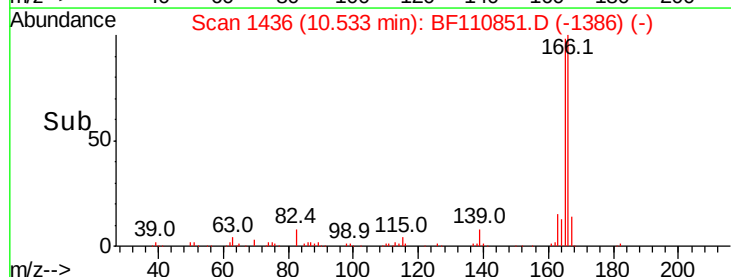
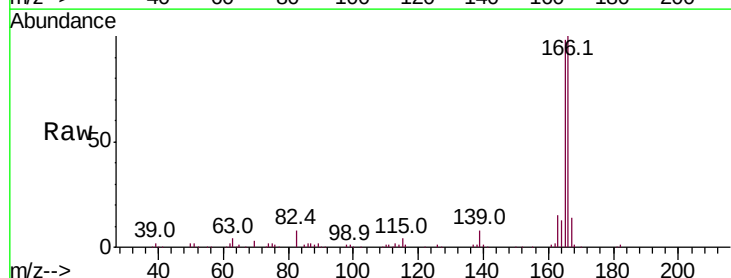
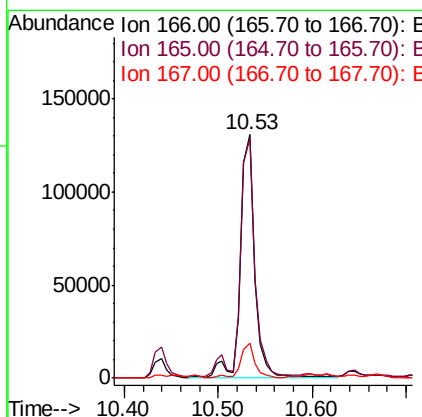
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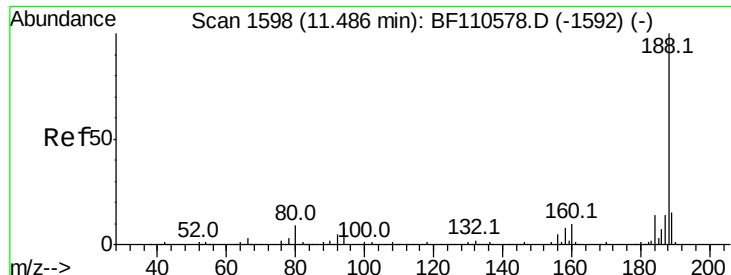
Sohil
11/20/2018 11:07:29 AM



#58
Fluorene
Concen: 16.133 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.6	117.8
167	14.3	10.8	16.2





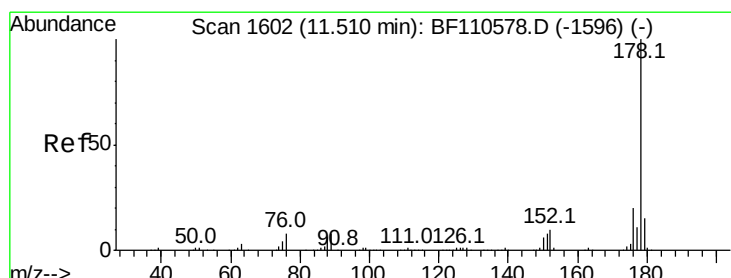
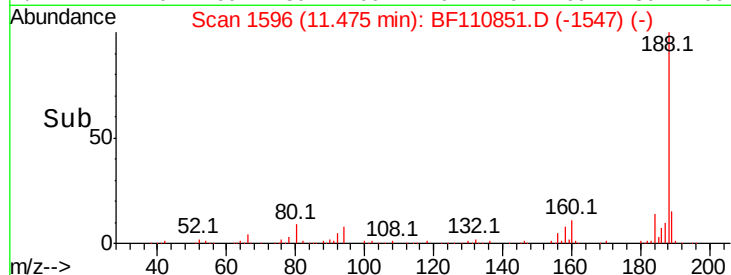
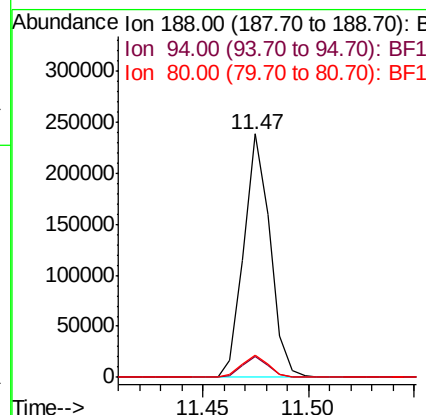
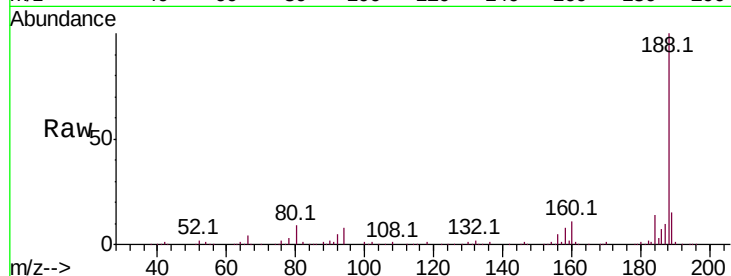
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	205304		
94	8.4	7.2	10.8	
80	9.0	7.9	11.9	

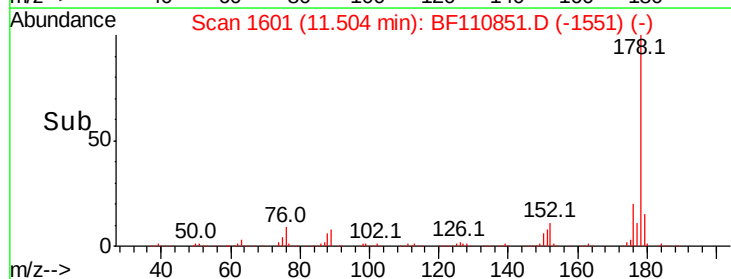
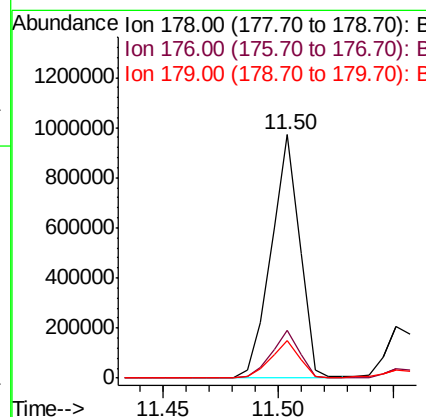
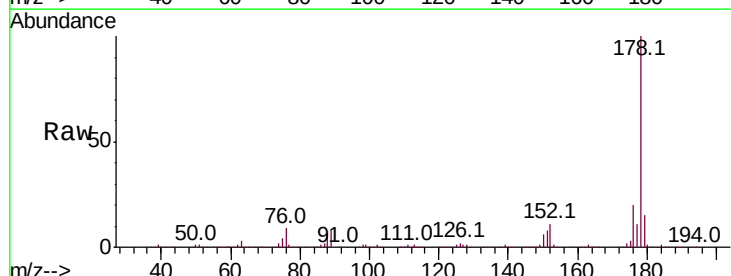
Manual Integrations
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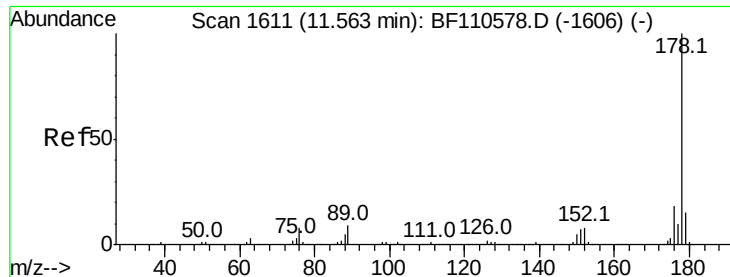
Sohil
11/20/2018 11:07:29 AM



#71
Phenanthrene
Concen: 76.026 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	836216		
176	19.5	15.5	23.3	
179	15.3	12.5	18.7	





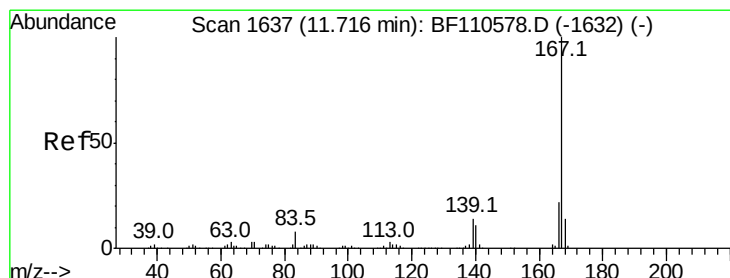
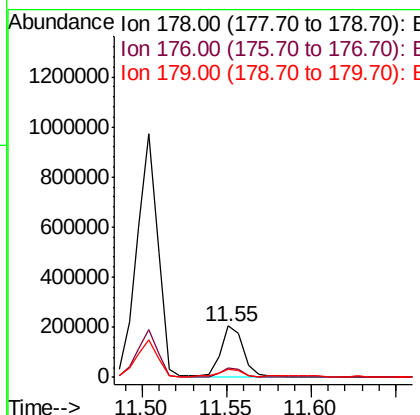
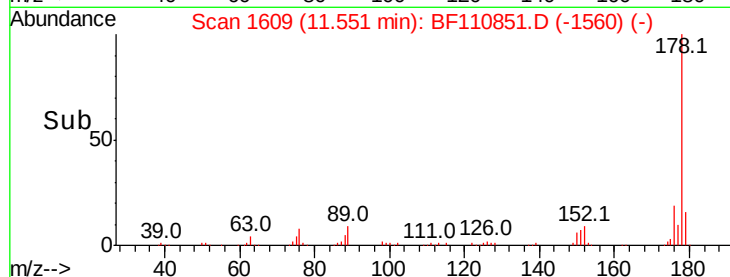
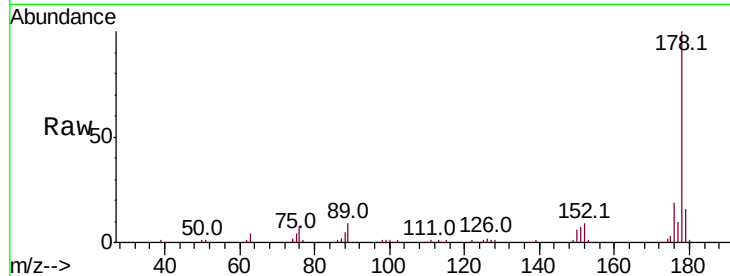
#72
 Anthracene
 Concen: 17.498 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. -0.01 min
 Lab File: BF110851.D
 Acq: 19 Nov 2018 14:24

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.1	12.6	18.8

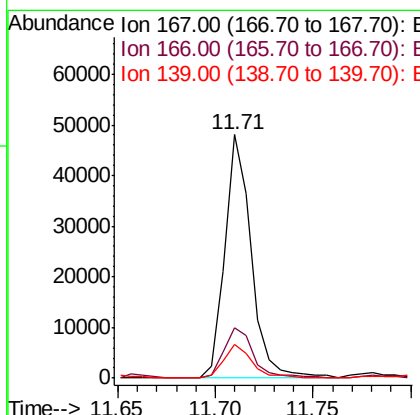
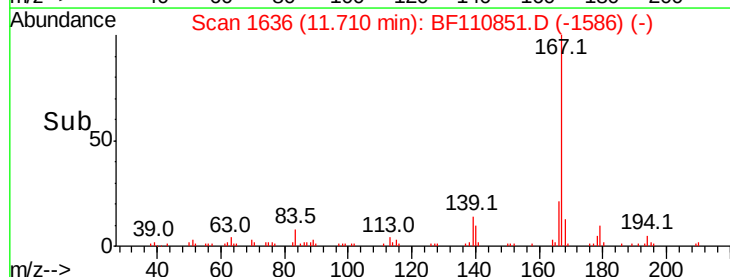
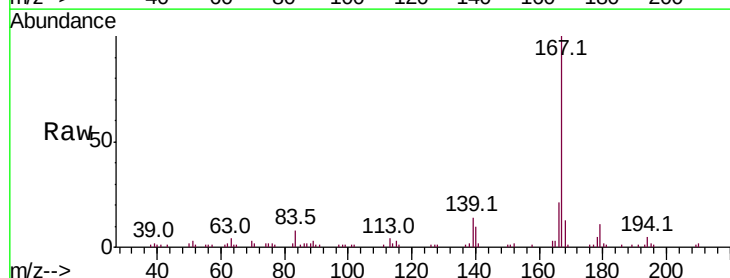
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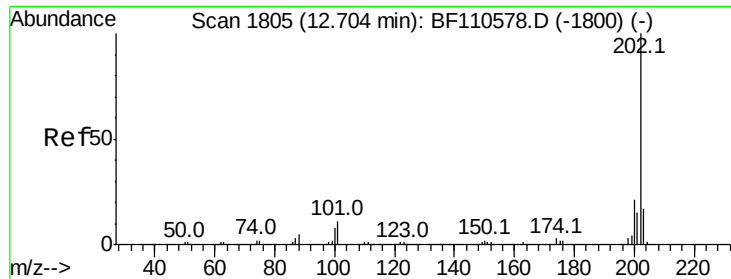
Sohil
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#73
 Carbazole
 Concen: 4.237 ng
 RT: 11.71 min Scan# 1636
 Delta R.T. -0.01 min
 Lab File: BF110851.D
 Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.4	26.0
139	13.7	10.9	16.3





#75

Fluoranthene

Concen: 55.154 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Instrument :

BNA_F

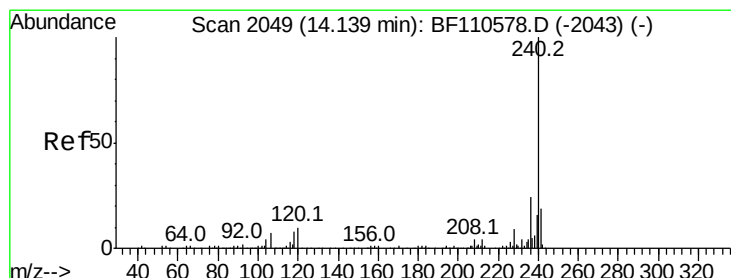
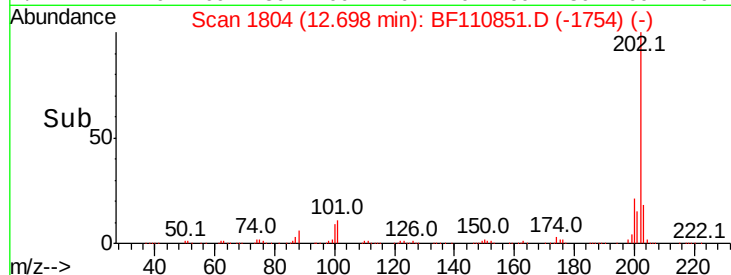
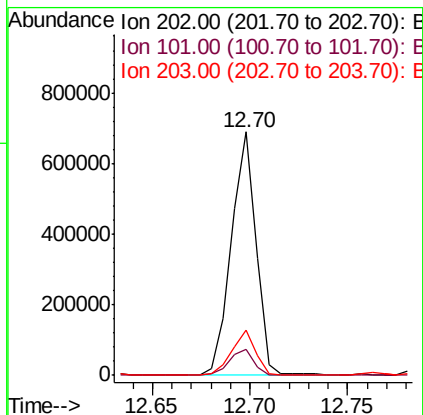
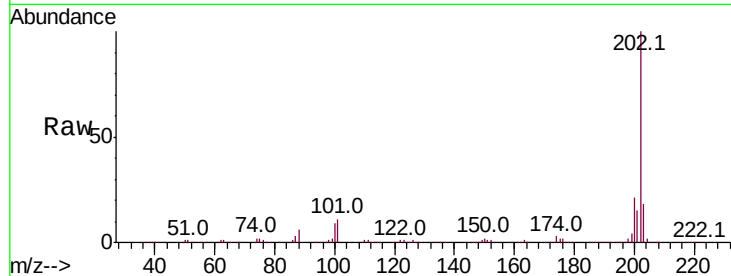
ClientSampleId :

MMTW-01(3-5)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.9	0.0	31.4
203	18.4	0.0	37.7

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#76

Chrysene-d12

Concen: 20.000 ng

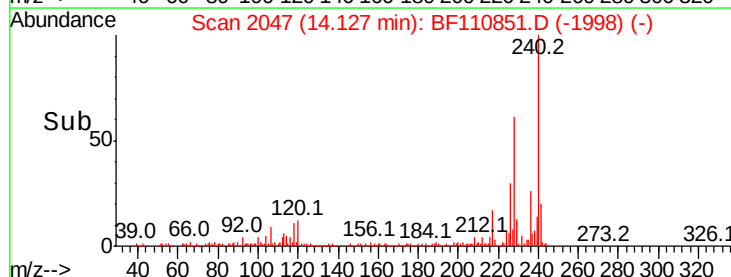
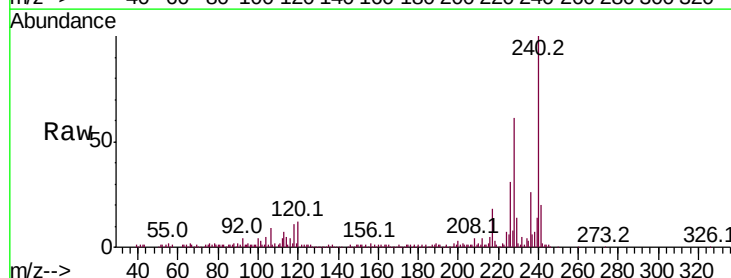
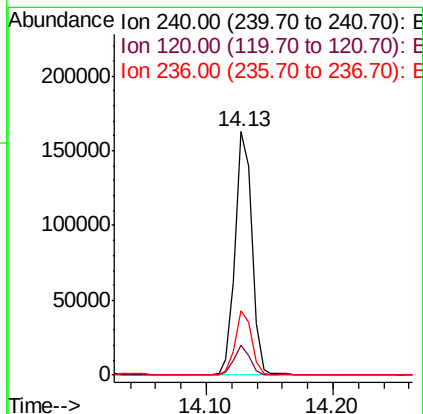
RT: 14.13 min Scan# 2047

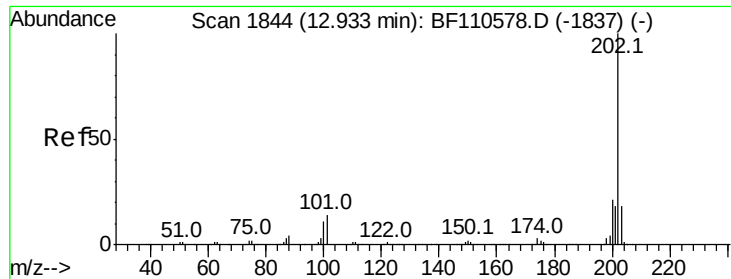
Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.5	8.3	12.5#
236	26.3	21.2	31.8





#78

Pvrene

Concen: 49.407 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Instrument :

BNA_F

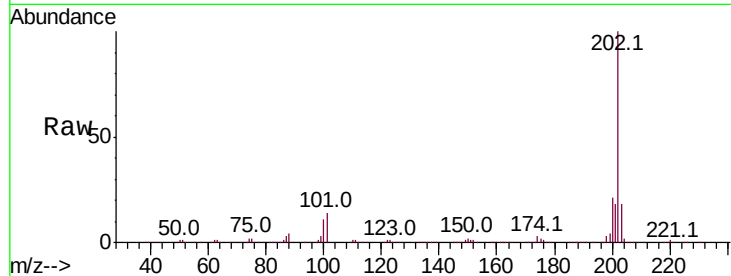
ClientSampleId :

MMTW-01(3-5)

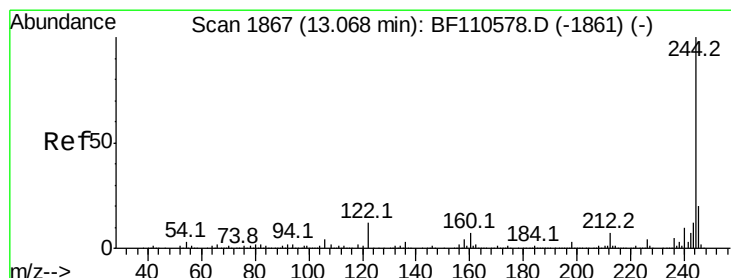
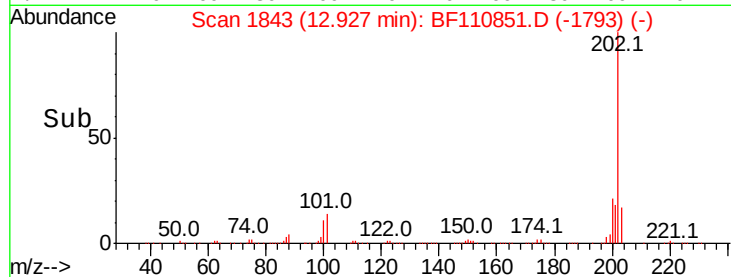
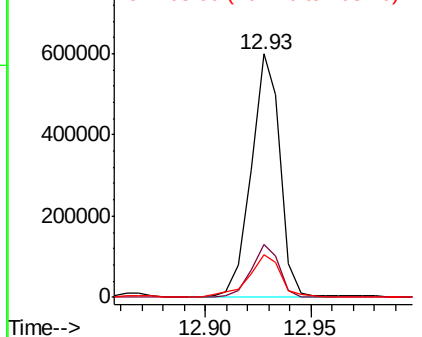
Tot Ion:202	Resp:	566343
Ion Ratio	Lower	Upper
202 100		
200 21.5	17.8	26.6
203 17.7	14.2	21.4

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Abundance Ion 202.00 (201.70 to 202.70): E
800000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 5.106 ng

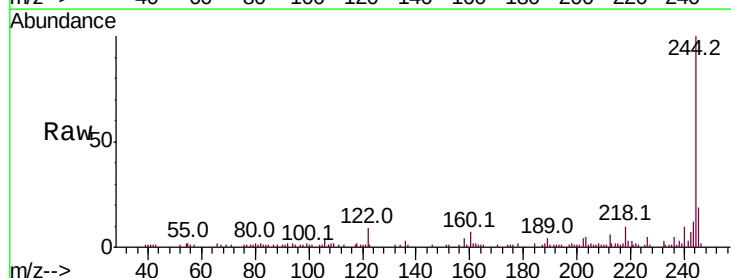
RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

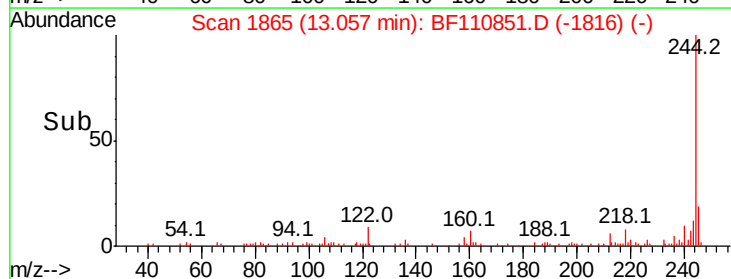
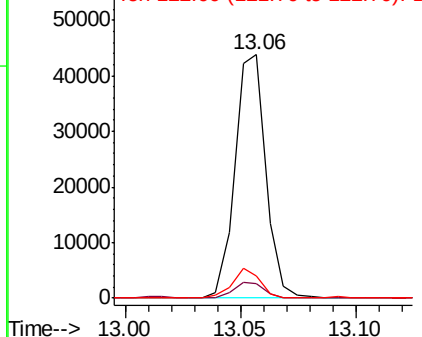
Lab File: BF110851.D

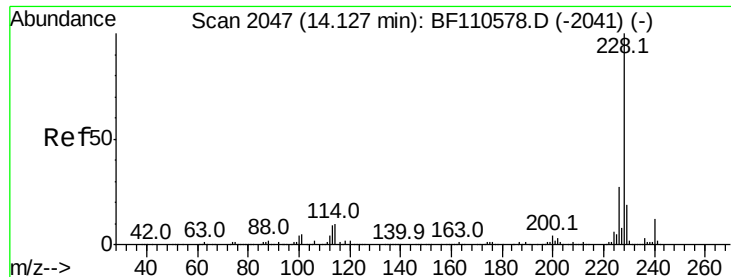
Acq: 19 Nov 2018 14:24

Tgt Ion:244	Resp:	40592
Ion Ratio	Lower	Upper
244 100		
212 5.9	5.8	8.8
122 9.2	8.7	13.1



Abundance Ion 244.00 (243.70 to 244.70): E
60000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 30.806 ng

RT: 14.12 min Scan# 2046

Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Instrument :

BNA_F

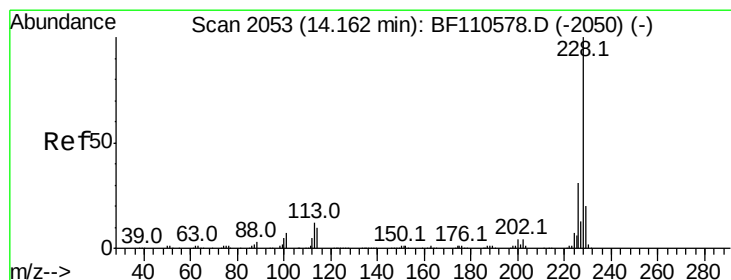
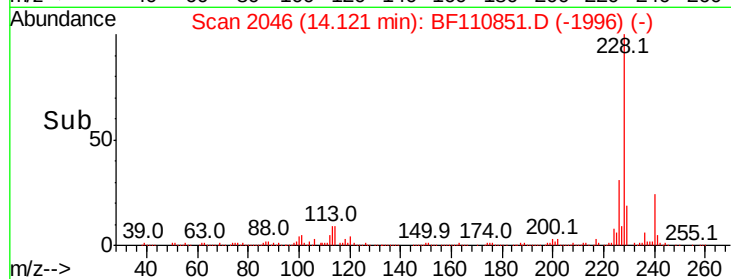
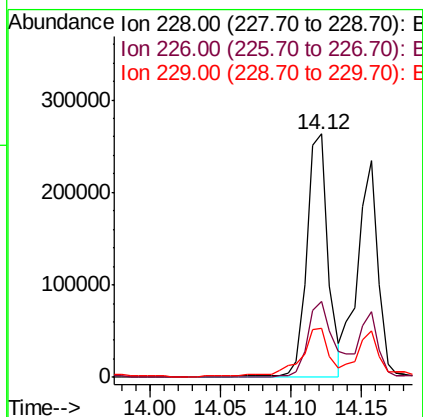
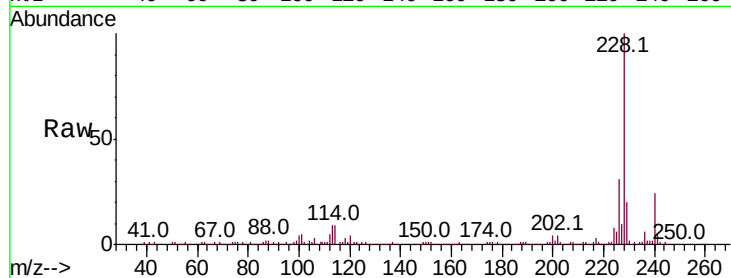
ClientSampleId :

MMTW-01(3-5)

Tot Ion:	228	Resp:	274114
Ion Ratio	Lower	Upper	
228	100		
226	31.4	22.1	33.1
229	19.9	15.6	23.4

Manual Integrations
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#83

Chrysene

Concen: 27.805 ng

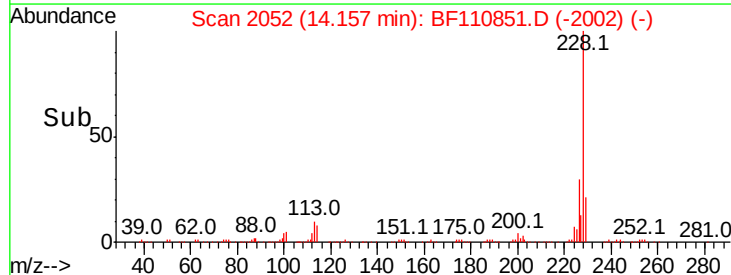
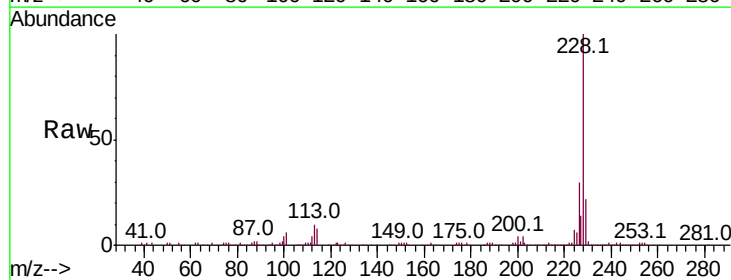
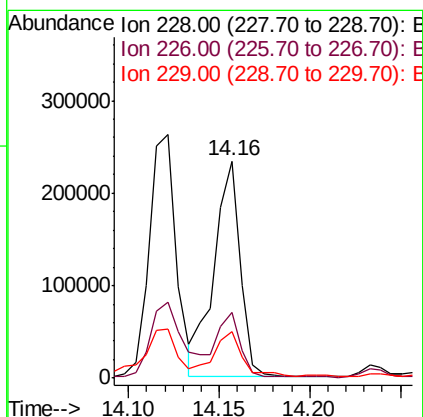
RT: 14.16 min Scan# 2052

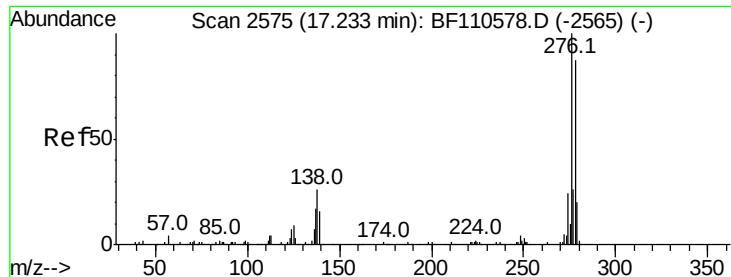
Delta R.T. -0.01 min

Lab File: BF110851.D

Acq: 19 Nov 2018 14:24

Tgt Ion:	228	Resp:	235709
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.7	37.1
229	21.6	15.9	23.9





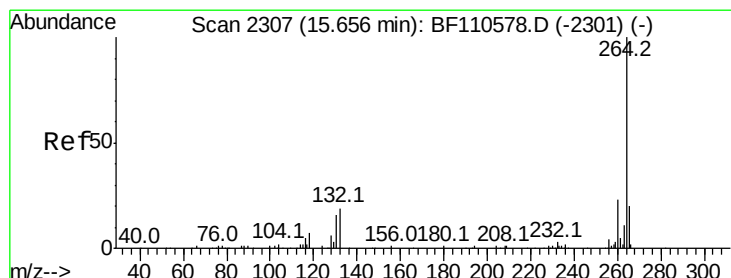
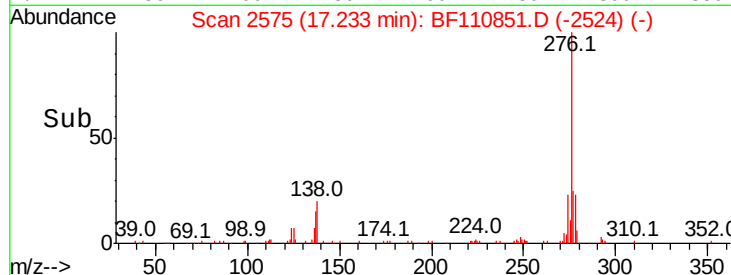
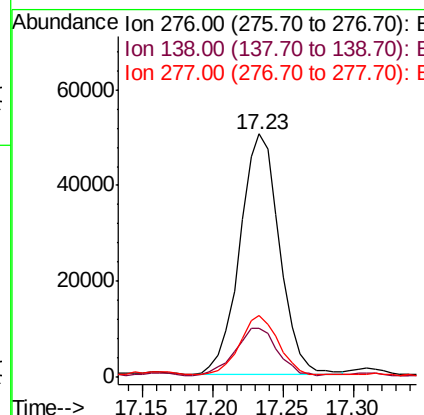
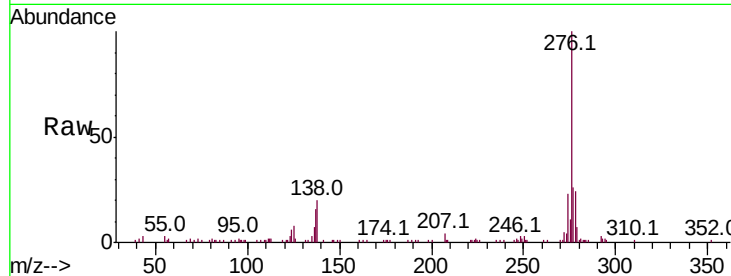
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 16.290 ng
 RT: 17.23 min Scan# 2575
 Delta R.T. 0.00 min
 Lab File: BF110851.D
 Acq: 19 Nov 2018 14:24

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.3	18.5	27.7
277	23.5	20.0	30.0

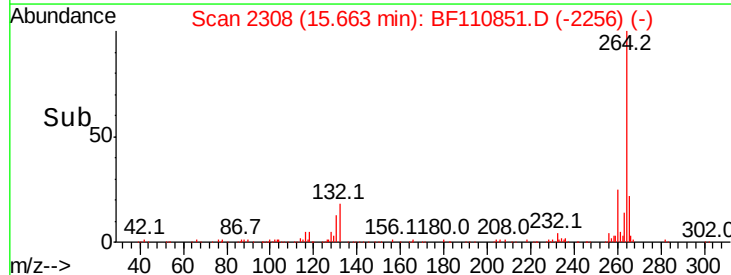
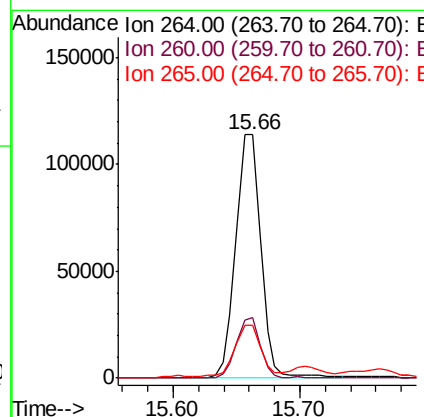
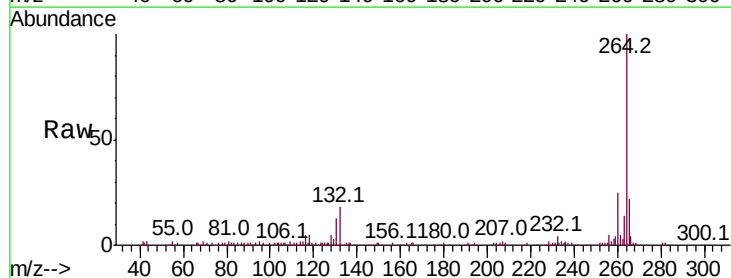
Manual Integrations
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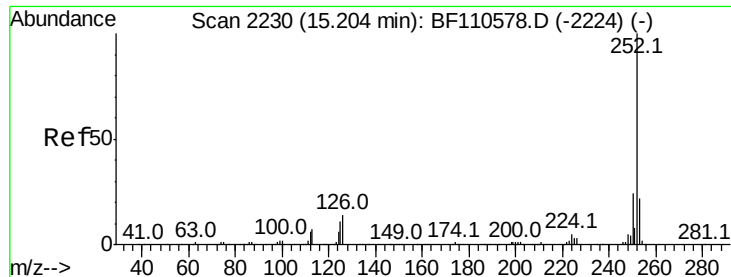
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.66 min Scan# 2308
 Delta R.T. 0.01 min
 Lab File: BF110851.D
 Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	18.7	28.1
265	21.8	16.7	25.1





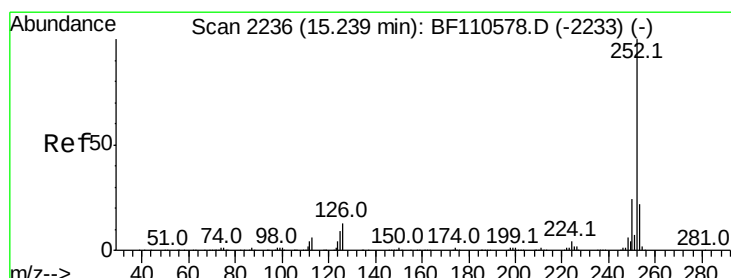
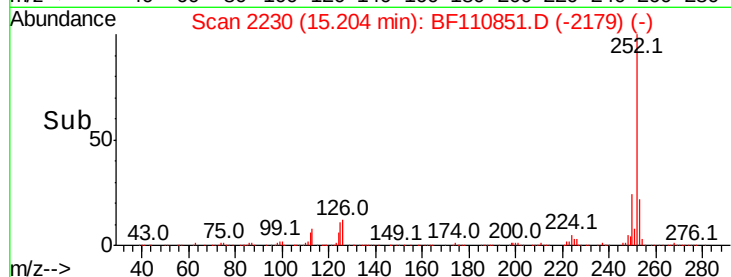
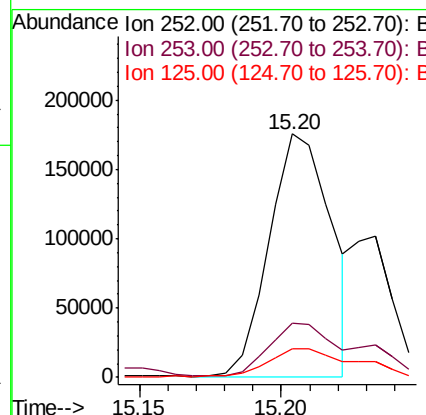
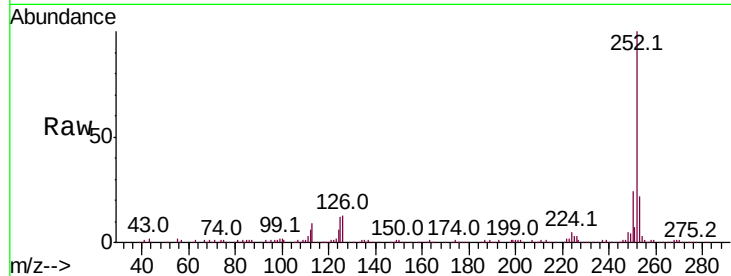
#88
Benzo(b)fluoranthene
Concen: 28.634 ng m
RT: 15.20 min Scan# 2230
Delta R.T. 0.00 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	11.7	8.2	12.4

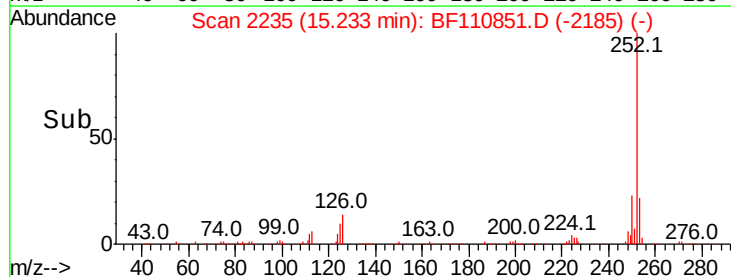
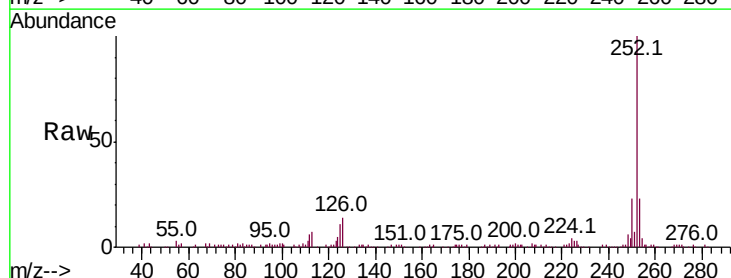
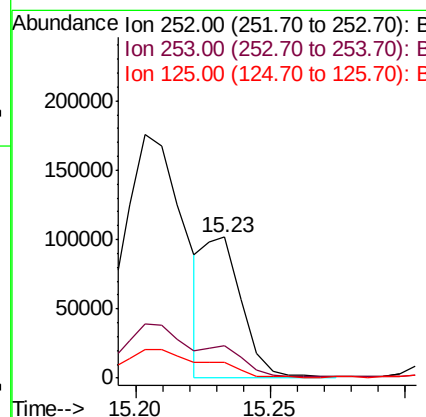
Manual Integrations
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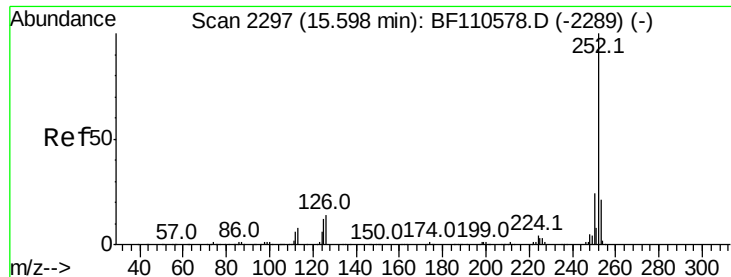
Sohil
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#89
Benzo(k)fluoranthene
Concen: 10.907 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	10.8	7.4	11.0





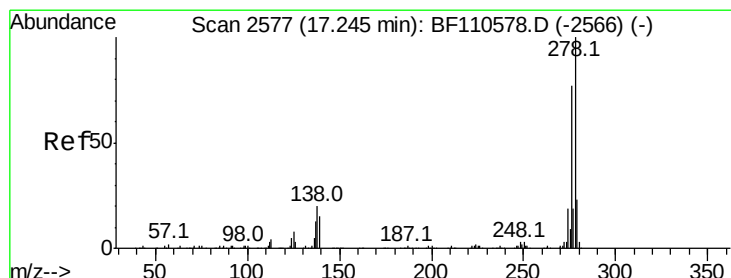
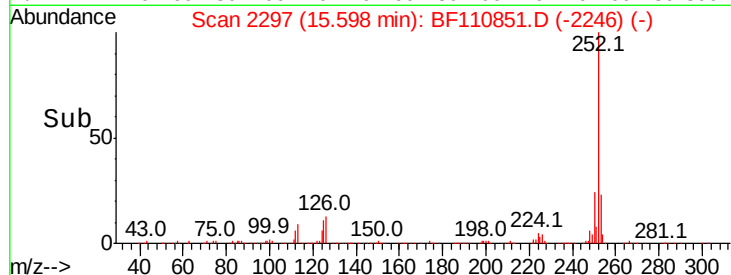
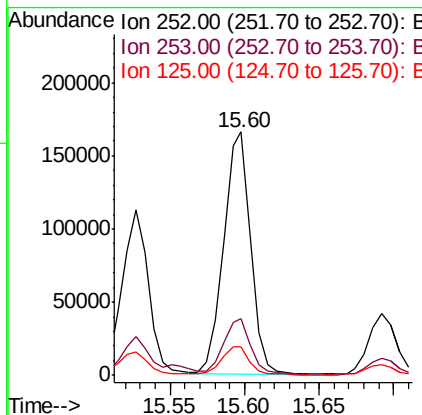
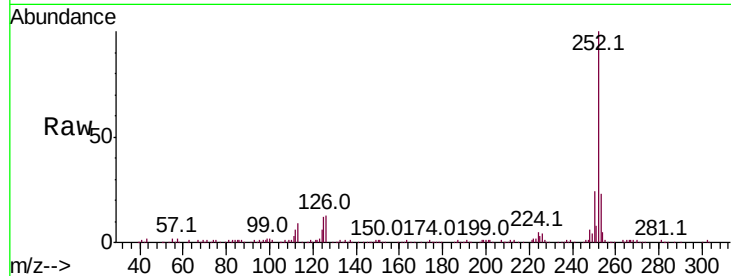
#90
Benzo(a)pyrene
Concen: 24.867 ng
RT: 15.60 min Scan# 2297
Delta R.T. 0.00 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Instrument :
BNA_F
ClientSampleId :
MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	11.7	9.0	13.6

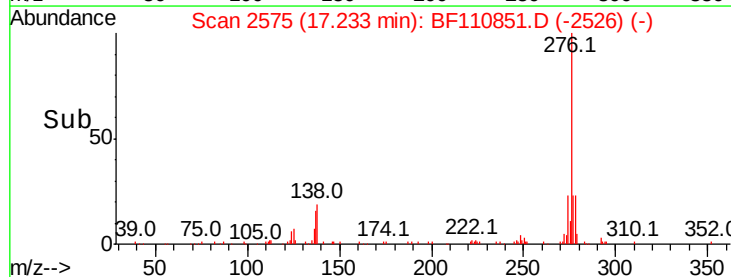
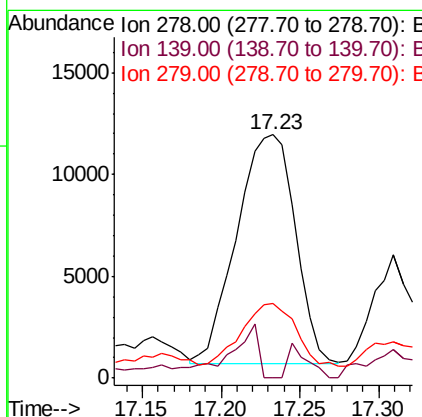
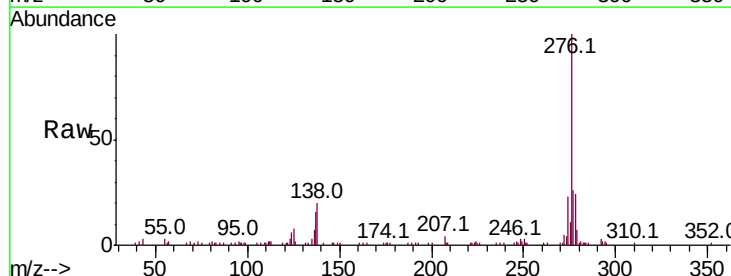
Manual Integrations
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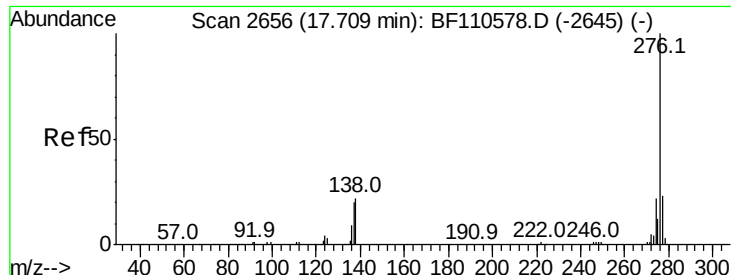
Sohil
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#91
Dibenzo(a,h)anthracene
Concen: 4.005 ng m
RT: 17.23 min Scan# 2575
Delta R.T. -0.01 min
Lab File: BF110851.D
Acq: 19 Nov 2018 14:24

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	30.8	19.0	28.4#





#92
 Benzo(a,h,i)perylene
 Concen: 12.048 ng
 RT: 17.72 min Scan# 2657
 Delta R.T. 0.01 min
 Lab File: BF110851.D
 Acq: 19 Nov 2018 14:24

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-01(3-5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	24.1	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 11/20/2018 11:07:29 AM

