

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
 Data File : BF107772.D
 Acq On : 28 Jul 2018 3:49
 Operator : JU/SJ
 Sample : J4184-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW-7BD

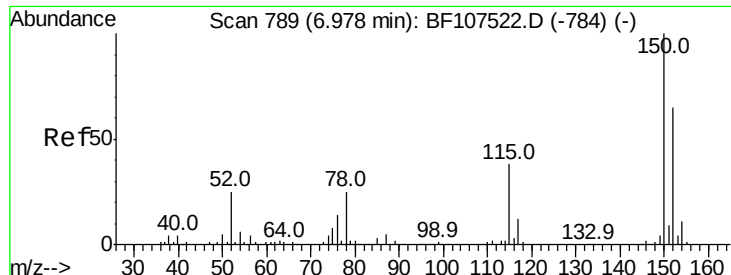
Manual Integrations
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 7/30/2018 2:03:33 PM

Quant Time: Jul 30 12:35:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	182479	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	261438	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	276058	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	459449	20.00	ng	-0.01
75) Chrysene-d12	14.16	240	439457	20.00	ng	0.00
86) Perylene-d12	15.69	264	350450	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	355228m	31.30	ng	0.00
7) Phenol-d6	6.61	99	421318	30.92	ng	0.00
23) Nitrobenzene-d5	7.54	82	1018888	263.02	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	369964	117.85	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	1809089	129.09	ng	-0.02
78) Terphenyl-d14	13.08	244	1518915	88.49	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.62	94	141198	8.810	ng	88
27) 2,4-Dimethylphenol	7.93	122	203246	57.305	ng	94
31) Naphthalene	8.29	128	19513076m	1697.303	ng	
37) 2-Methylnaphthalene	8.98	142	3656144	458.933	ng	# 94
45) 1,1'-Biphenyl	9.42	154	1744844	72.557	ng	98
48) Acenaphthylene	9.88	152	3244564	117.503	ng	94
49) Dimethylphthalate	9.71	163	246575	11.851	ng	100
51) Acenaphthene	10.05	154	1813138	104.801	ng	99
54) Dibenzofuran	10.21	168	106210	4.170	ng	93
57) Fluorene	10.56	166	1242484	68.378	ng	97
70) Phenanthrene	11.53	178	2439097	108.941	ng	97
71) Anthracene	11.58	178	687647	30.505	ng	99
72) Carbazole	11.74	167	115593	4.931	ng	96
74) Fluoranthene	12.72	202	661003	27.513	ng	94
77) Pyrene	12.95	202	879529	29.260	ng	98
80) Benzo(a)anthracene	14.15	228	138348	5.372	ng	# 63
82) Chrysene	14.18	228	119421	4.827	ng	95
87) Benzo(b)fluoranthene	15.24	252	79100m	4.124	ng	
89) Benzo(a)pyrene	15.62	252	83859	4.780	ng	97
91) Benzo(a,h,i)perylene	17.74	276	34957	2.337	ng	# 90

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



#1

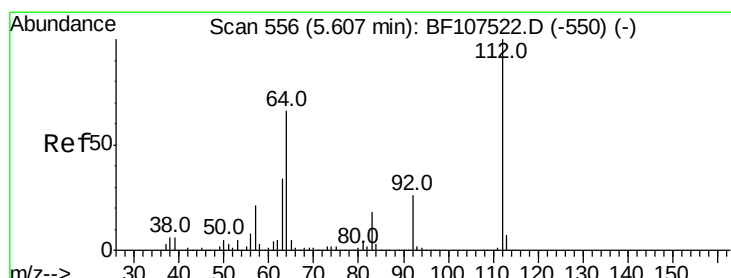
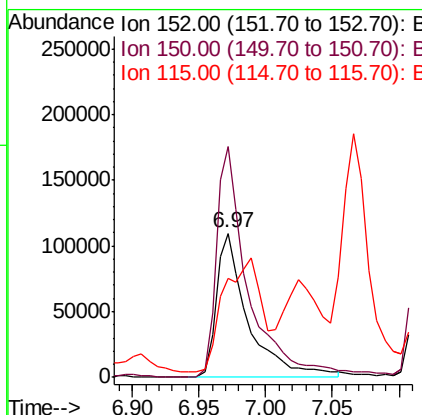
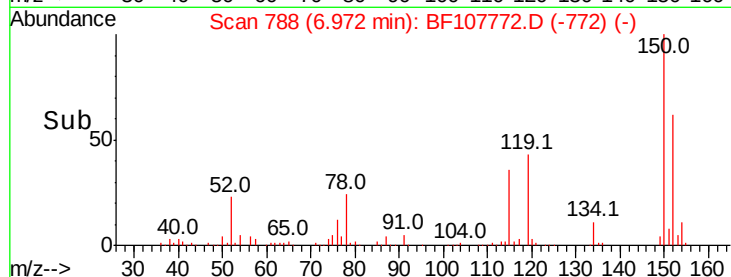
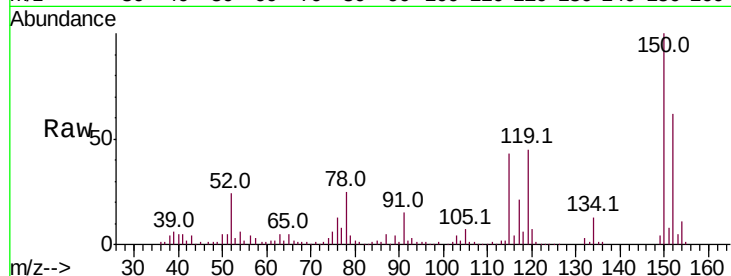
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampled :
MW-7BD

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.6	124.6	186.8
115	68.9	50.1	75.1

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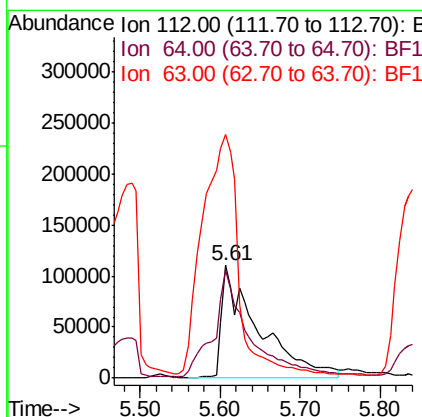
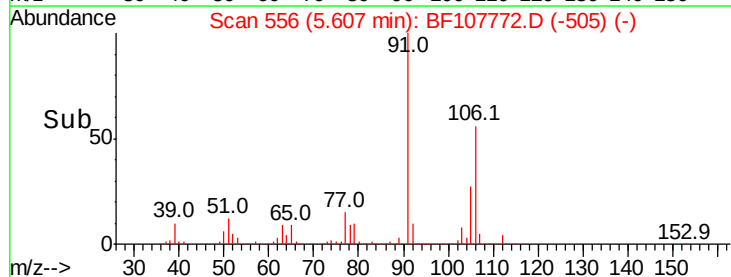
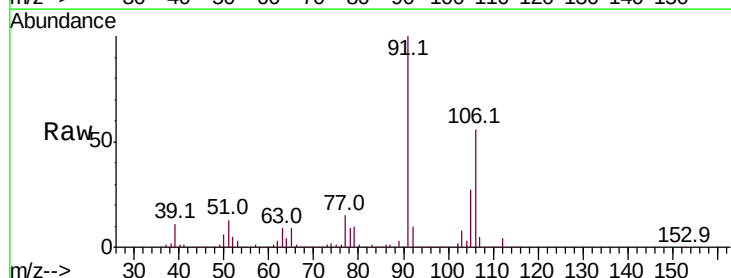
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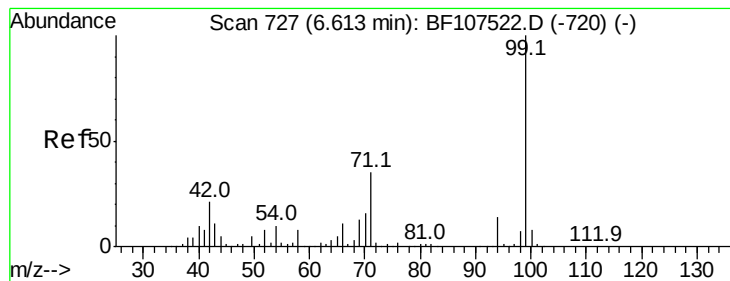


#5

2-Fluorophenol
Concen: 31.299 ng m
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	96.4	47.9	71.9#
63	216.4	23.7	35.5#





#7

Phenol-d6

Concen: 30.916 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

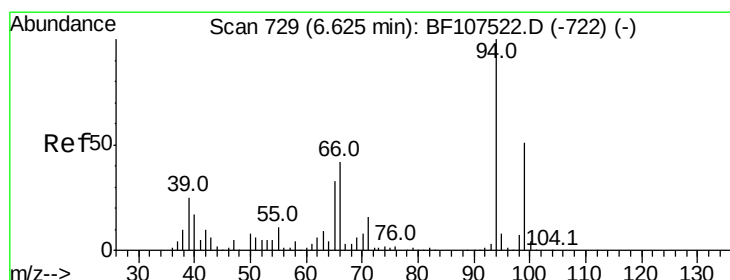
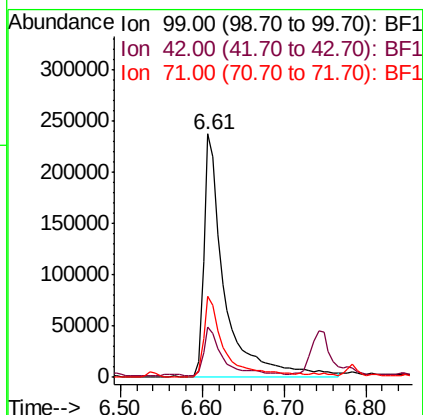
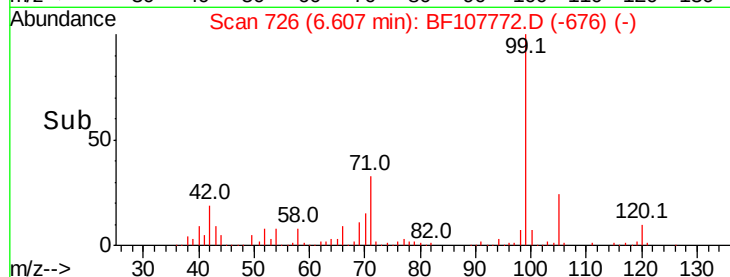
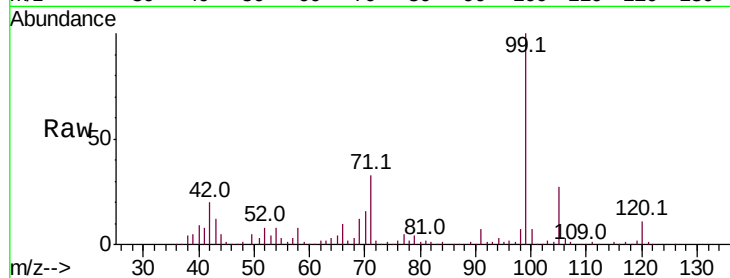
ClientSampled :

MW-7BD

Tot Ion:	99	Resp:	421318
Ion	Ratio	Lower	Upper
99	100		
42	20.5	14.5	21.7
71	33.5	25.4	38.0

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#10

Phenol

Concen: 8.810 ng

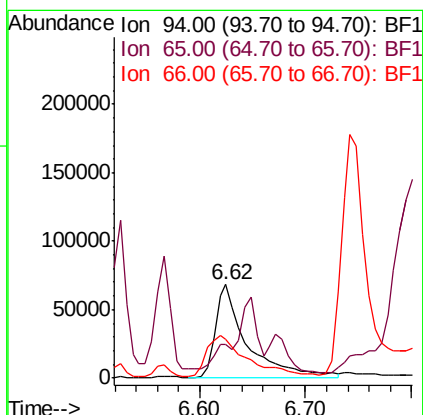
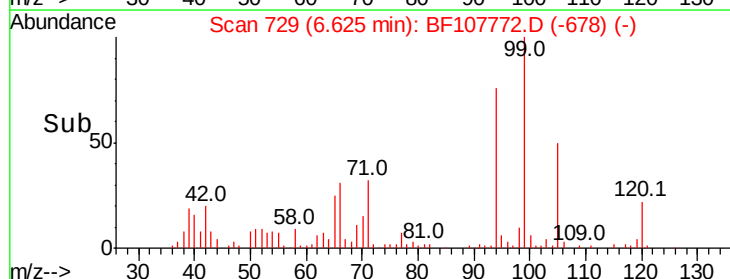
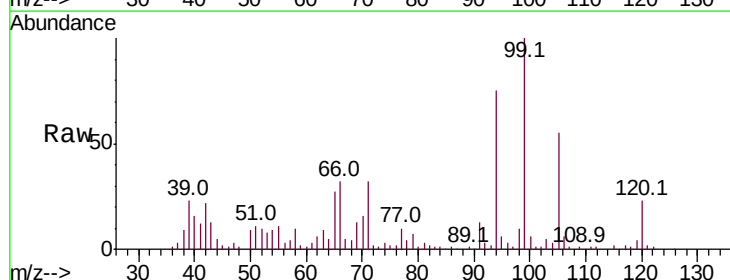
RT: 6.62 min Scan# 729

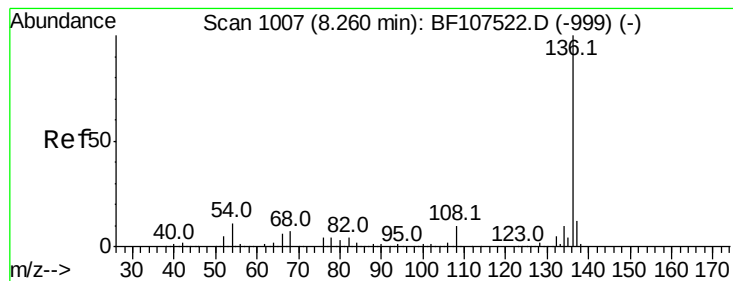
Delta R.T. -0.00 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Tgt Ion:	94	Resp:	141198
Ion	Ratio	Lower	Upper
94	100		
65	35.7	7.9	47.9
66	42.0	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

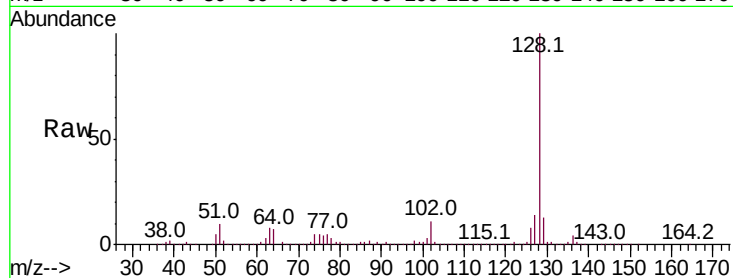
ClientSampled :

MW-7BD

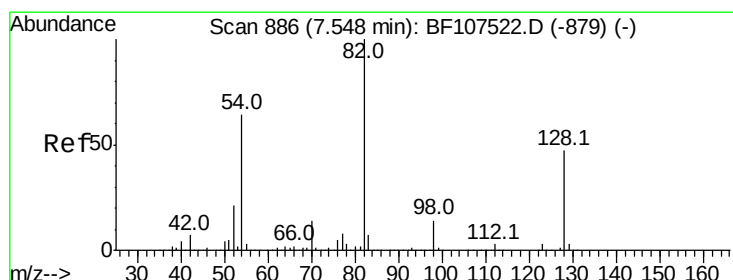
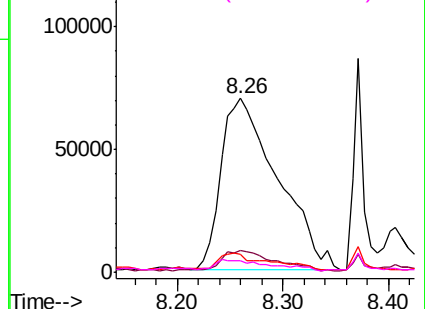
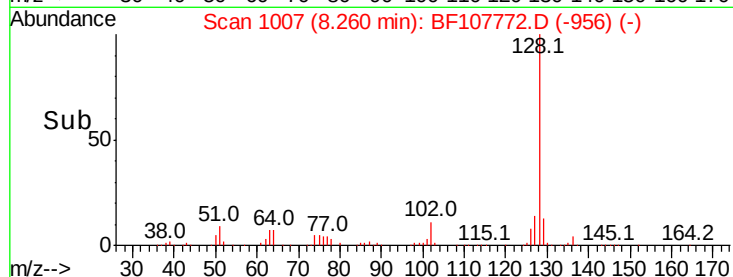
Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	12.3	8.9	13.3
54	10.4	6.6	9.8#
68	6.8	5.0	7.4

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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: 263.016 ng

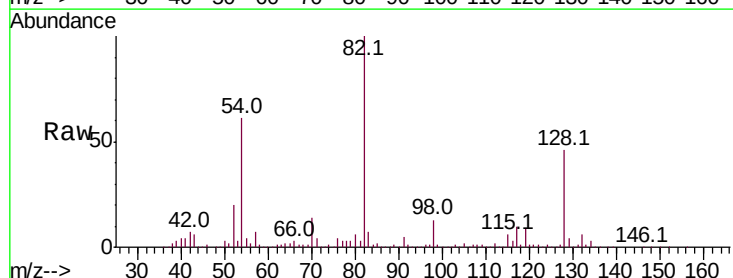
RT: 7.54 min Scan# 884

Delta R.T. -0.01 min

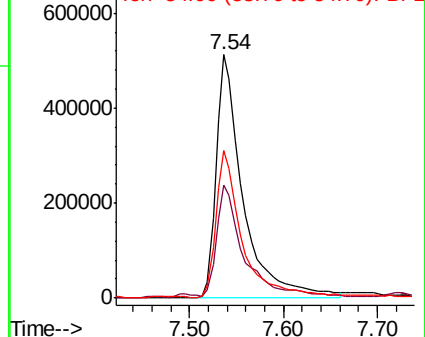
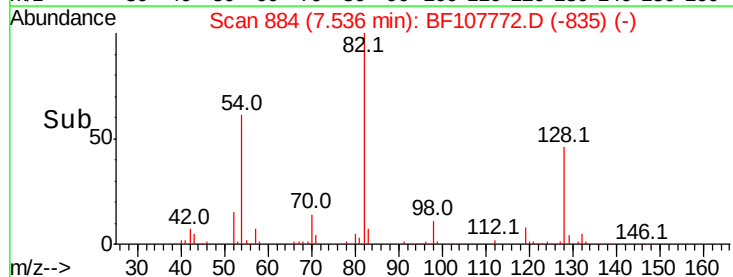
Lab File: BF107772.D

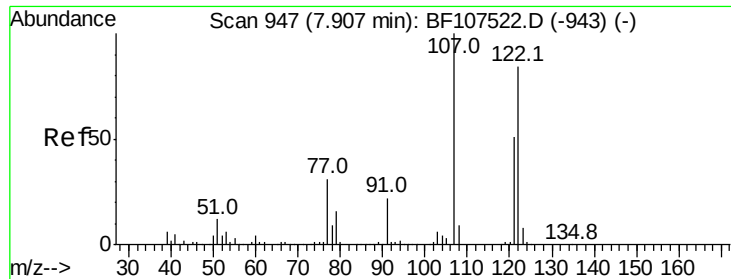
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	46.4	36.1	54.1
54	60.9	41.4	62.2



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





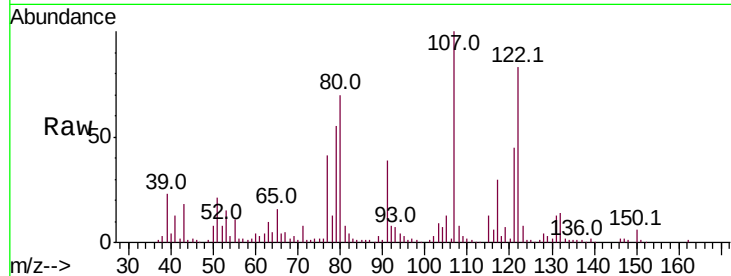
#27
2,4-Dimethylphenol
Concen: 57.305 ng
RT: 7.93 min Scan# 951
Delta R.T. 0.02 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampleID :
MW-7BD

Tot Ion	Ratio	Lower	Upper
122	100		
107	121.1	91.2	136.8
121	54.7	47.2	70.8

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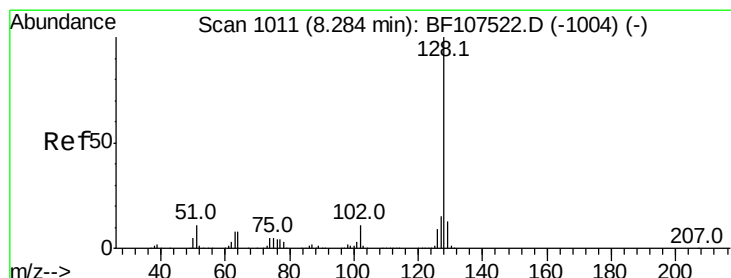
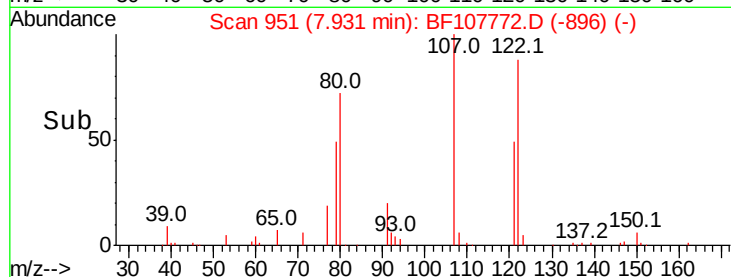
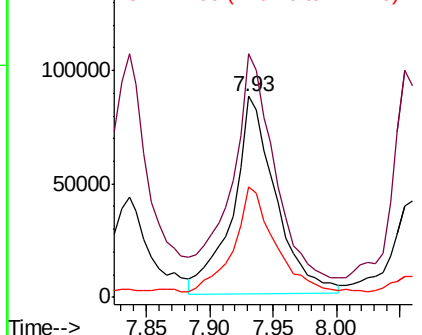


Abundance

Ion 122.00 (121.70 to 122.70): E

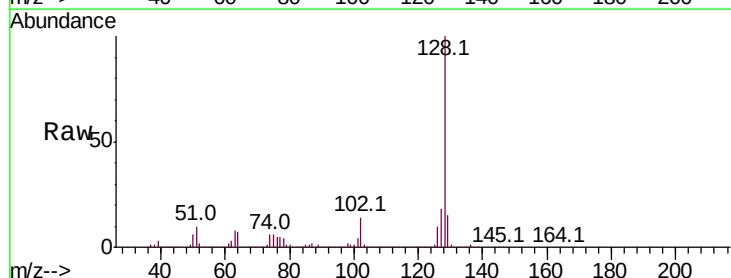
Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31
Naphthalene
Concen: 1697.303 ng m
RT: 8.29 min Scan# 1012
Delta R.T. 0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.8	8.8	13.2#
127	17.9	10.9	16.3#

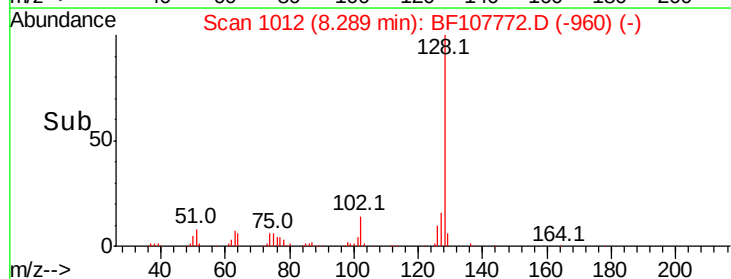
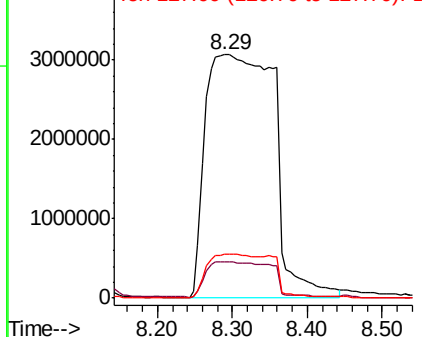


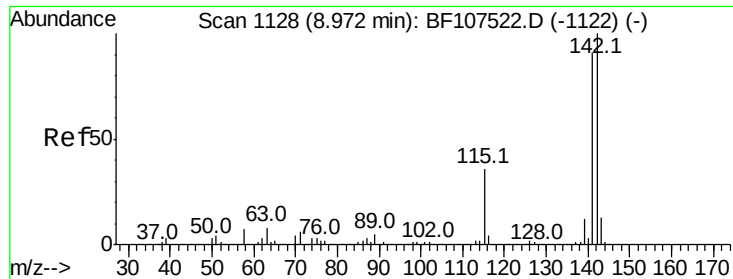
Abundance

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





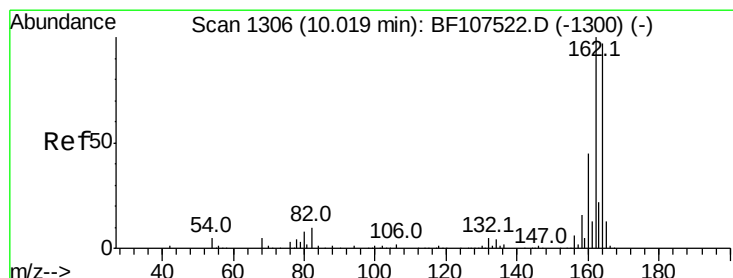
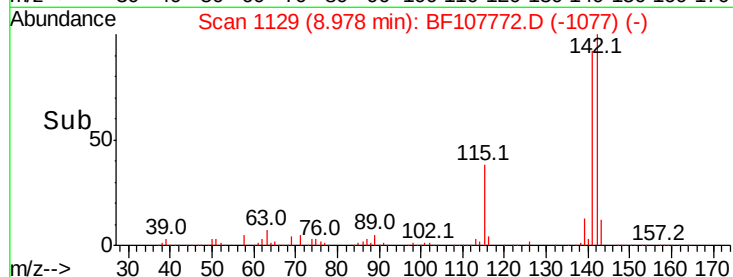
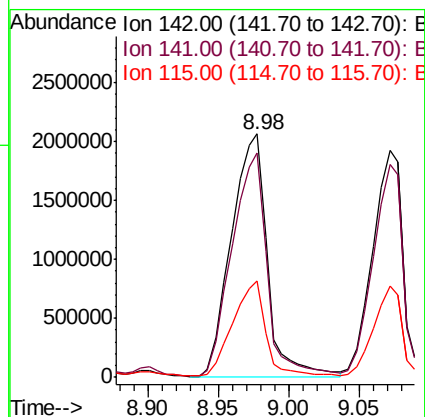
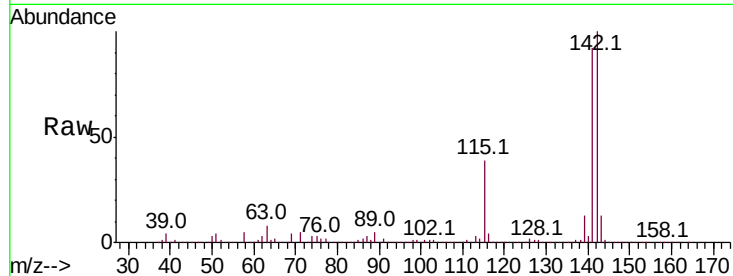
#37
 2-Methylnaphthalene
 Concen: 458.933 ng
 RT: 8.98 min Scan# 1129
 Delta R.T. 0.01 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Instrument :
 BNA_F
 ClientSampled :
 MW-7BD

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.2	70.8	106.2
115	39.5	26.1	39.1#

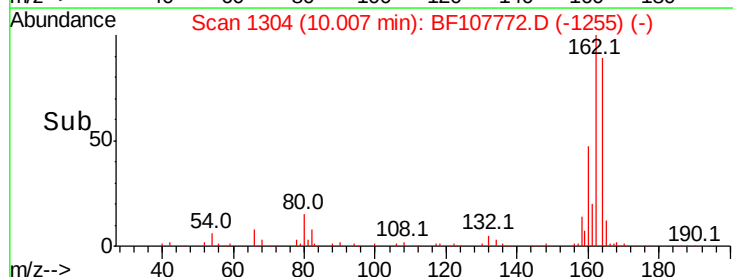
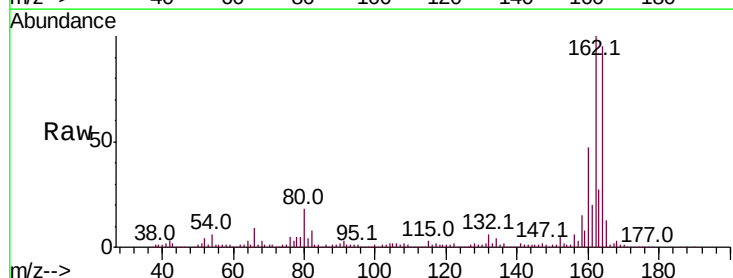
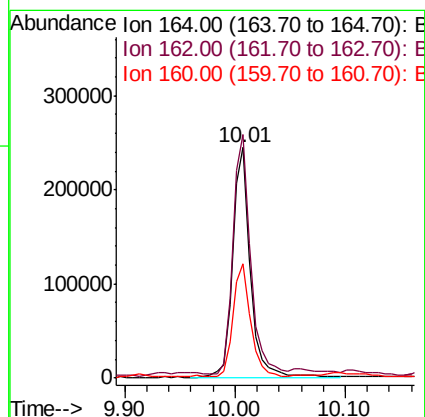
Manual Integrations
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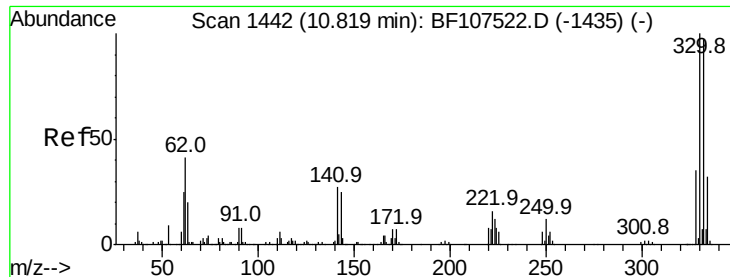
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.01 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.1	129.1
160	49.3	38.3	57.5





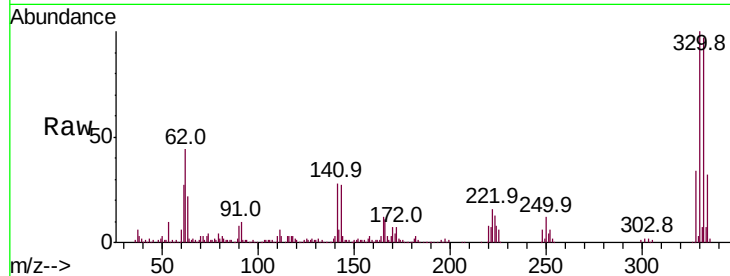
#41
 2,4,6-Tribromophenol
 Concen: 117.853 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.02 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Instrument :
 BNA_F
 ClientSampleId :
 MW-7BD

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	77.0	115.6	
141	28.2	29.9	44.9	

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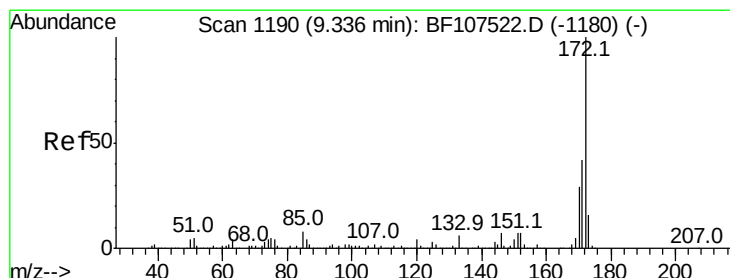
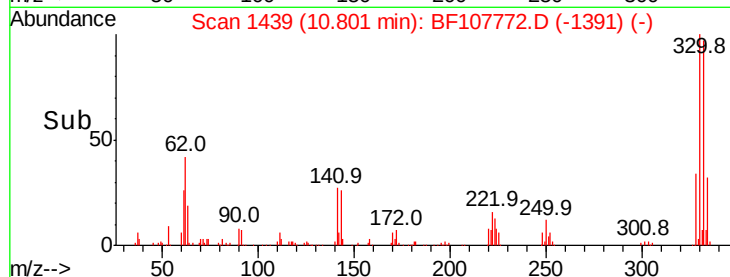
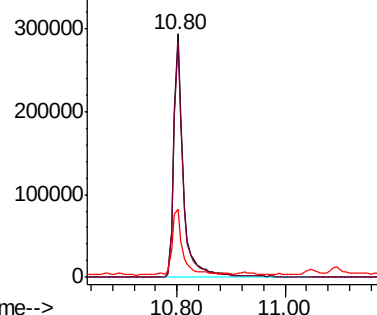


Abundance

Ion 329.80 (329.50 to 330.50): E

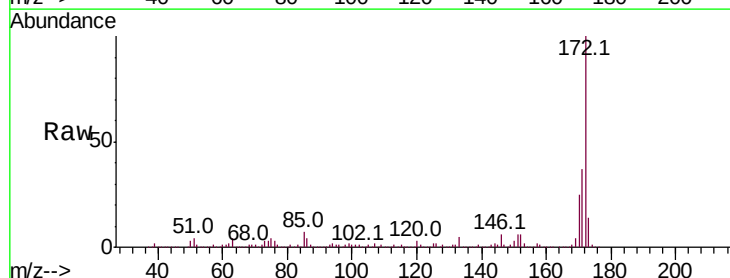
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 129.093 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. -0.02 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.5	29.7	44.5	
170	24.8	19.6	29.4	

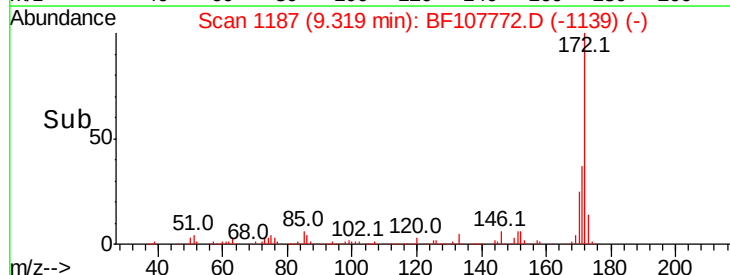
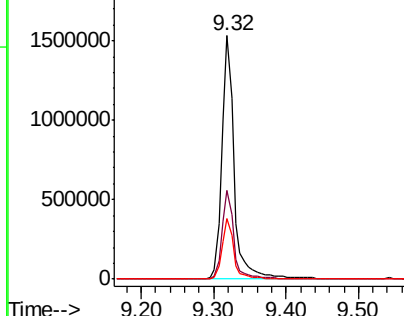


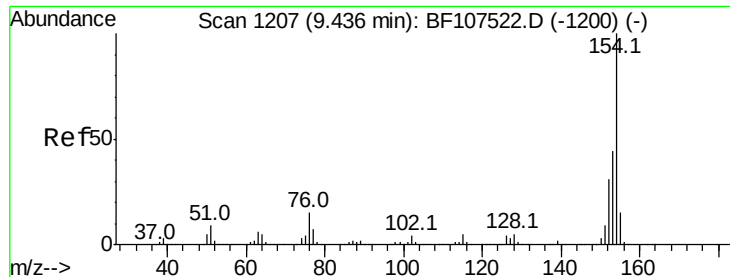
Abundance

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: 72.557 ng

RT: 9.42 min Scan# 1205

Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

ClientSampleId :

MW-7BD

Tot Ion:154 Resp: 1744844

Ion Ratio Lower Upper

154 100

153 42.2 21.3 61.3

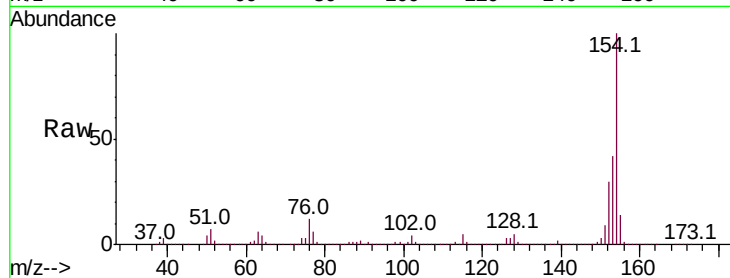
76 12.3 0.0 34.0

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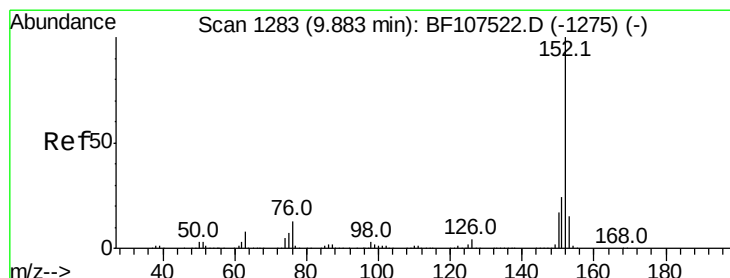
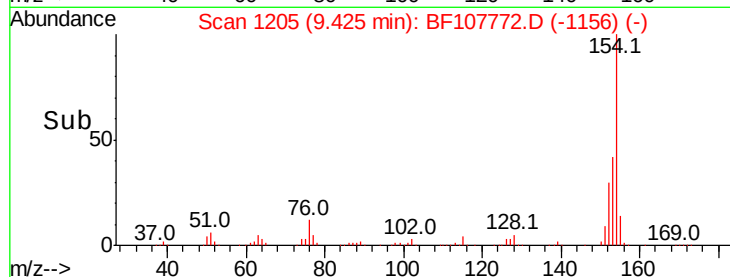
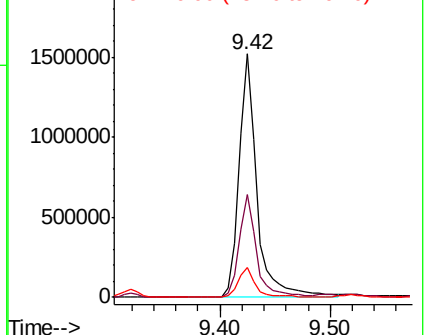
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 117.503 ng

RT: 9.88 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

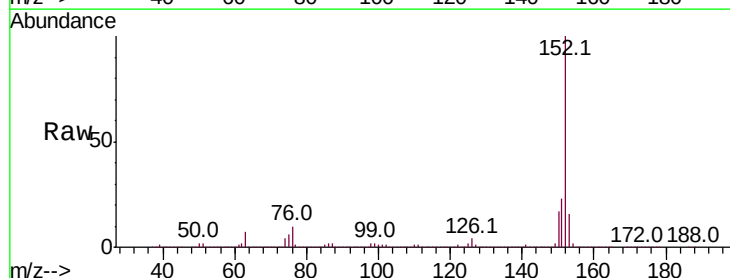
Tgt Ion:152 Resp: 3244564

Ion Ratio Lower Upper

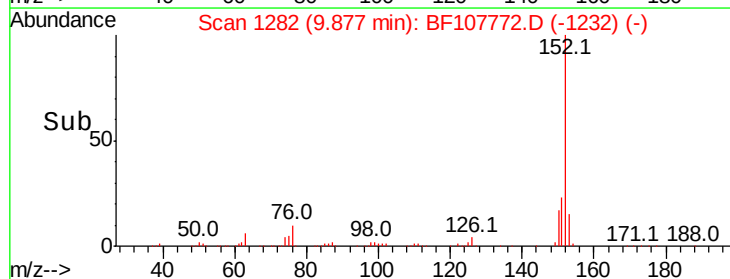
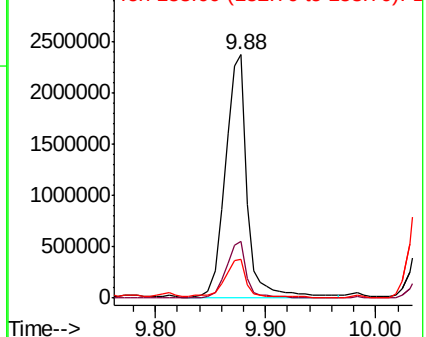
152 100

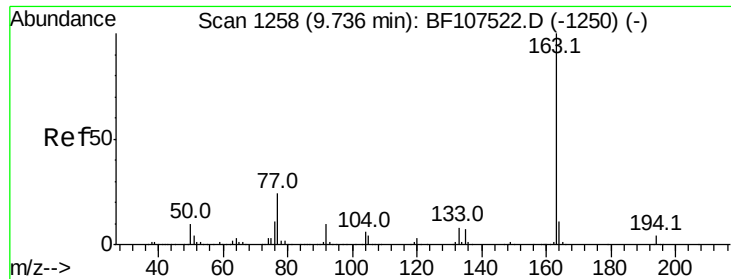
151 23.1 16.3 24.5

153 16.0 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





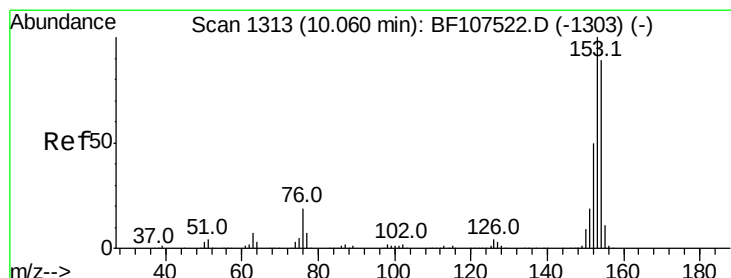
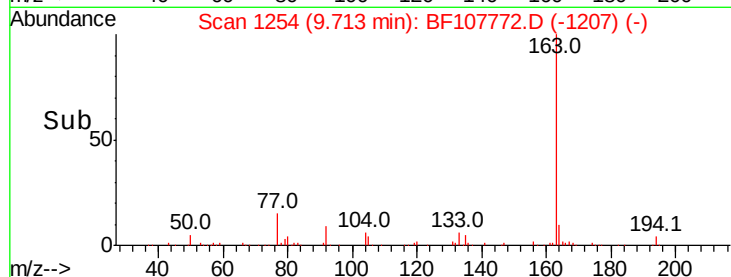
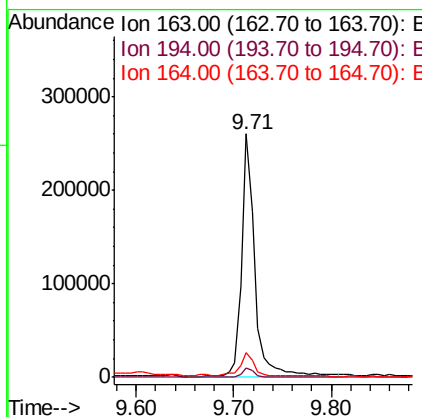
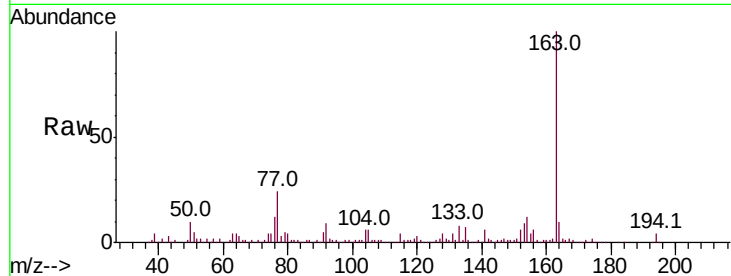
#49
Dimethylphthalate
Concen: 11.851 ng
RT: 9.71 min Scan# 1254
Delta R.T. -0.02 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampleId :
MW-7BD

Tot Ion	Ratio	Resp	Lower	Upper
163	100	246575		
194	3.7		2.7	4.1
164	10.3		8.2	12.2

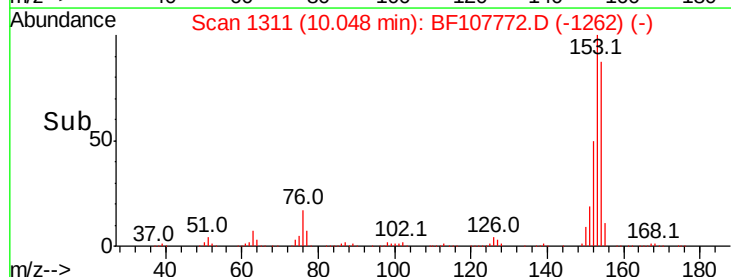
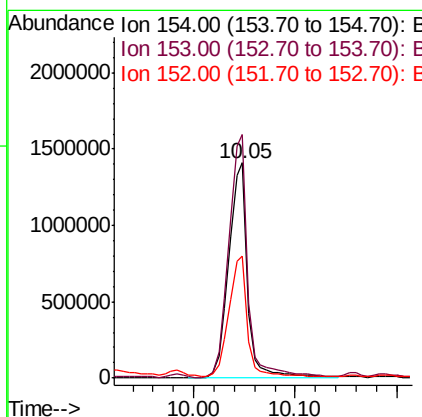
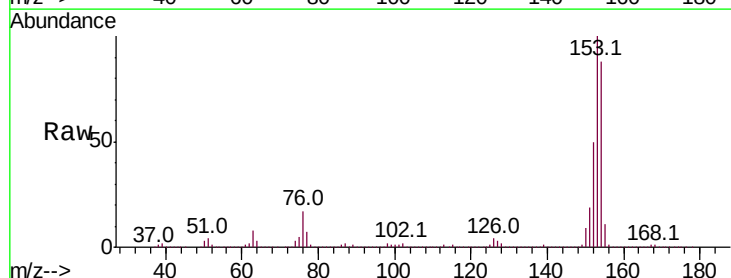
Manual Integrations
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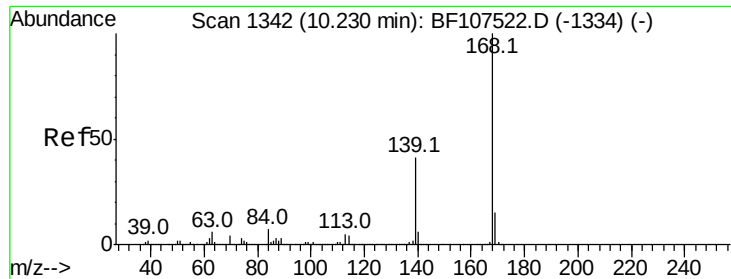
Sohil
7/30/2018 2:03:33 PM



#51
Acenaphthene
Concen: 104.801 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	1813138		
153	113.2		91.2	136.8
152	56.7		43.8	65.8





#54

Dibenzofuran

Concen: 4.170 ng

RT: 10.21 min Scan# 1339

Delta R.T. -0.02 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

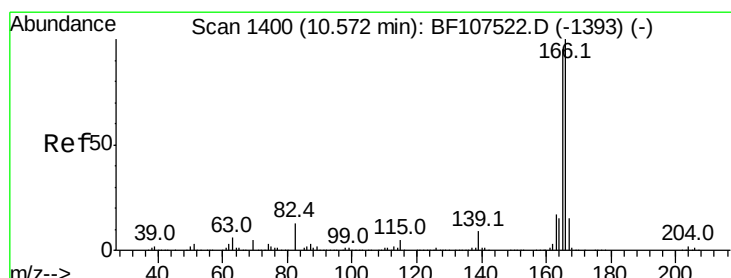
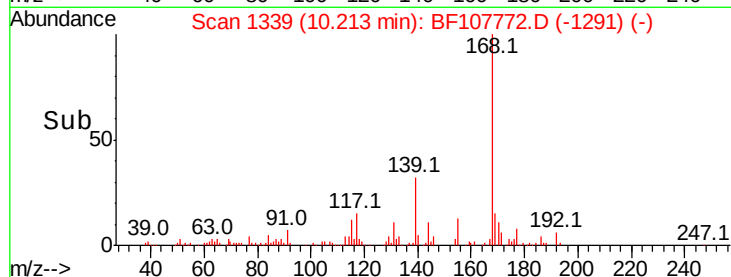
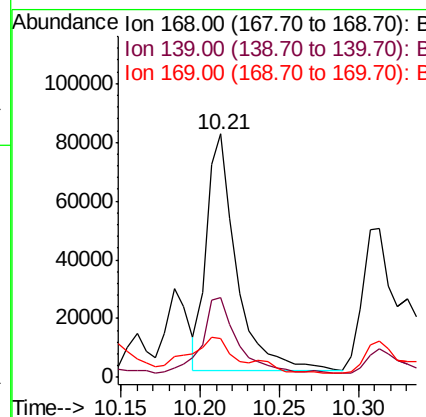
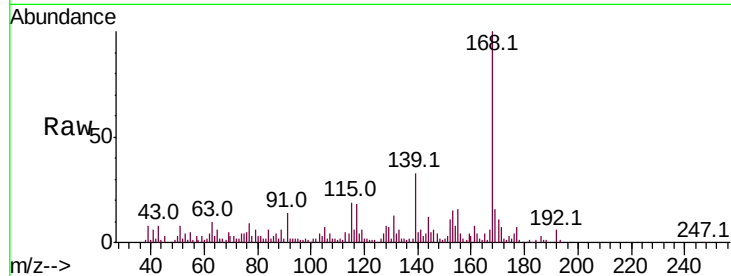
ClientSampled :

MW-7BD

Tot Ion:	168	Resp:	106210
Ion Ratio	Lower	Upper	
168	100		
139	32.8	30.1	45.1
169	15.7	10.9	16.3

Manual Integrations
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7/30/2018 2:03:33 PM



#57

Fluorene

Concen: 68.378 ng

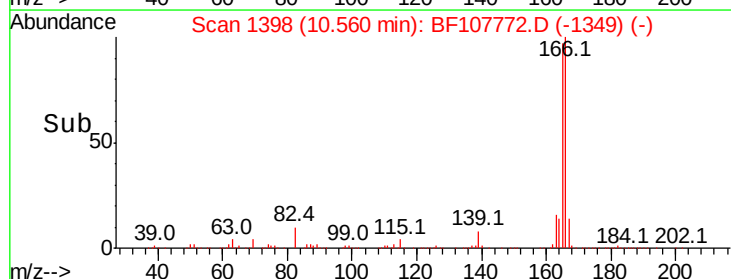
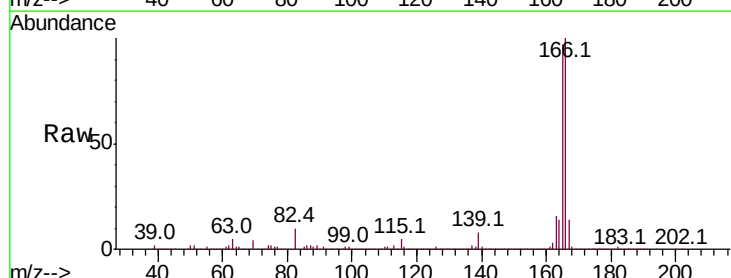
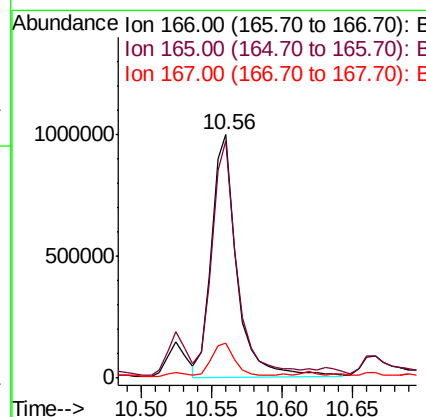
RT: 10.56 min Scan# 1398

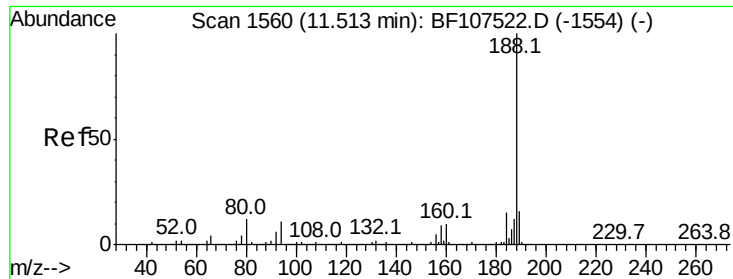
Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Tgt Ion:	166	Resp:	1242484
Ion Ratio	Lower	Upper	
166	100		
165	97.2	79.8	119.8
167	14.3	10.6	16.0





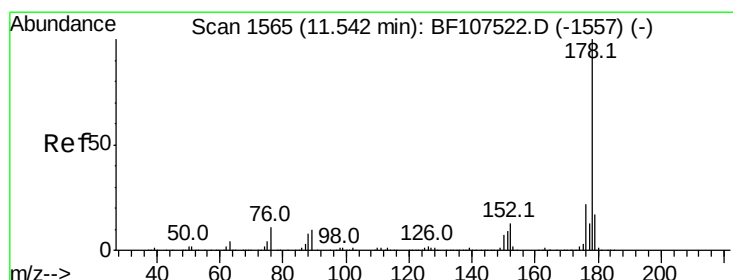
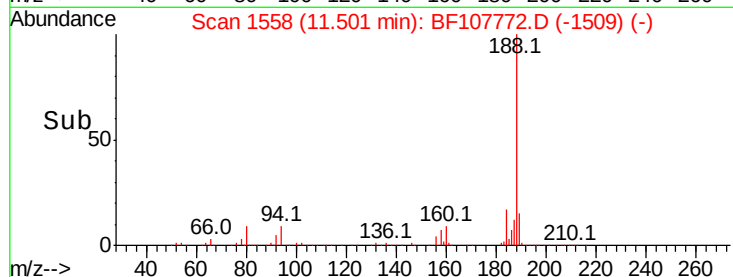
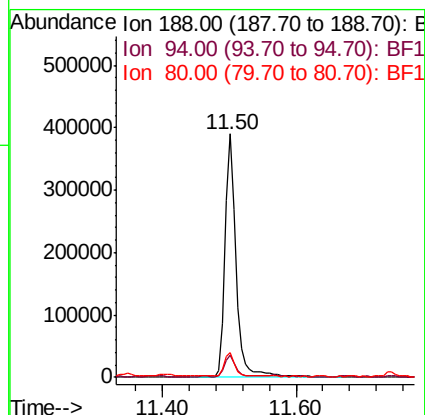
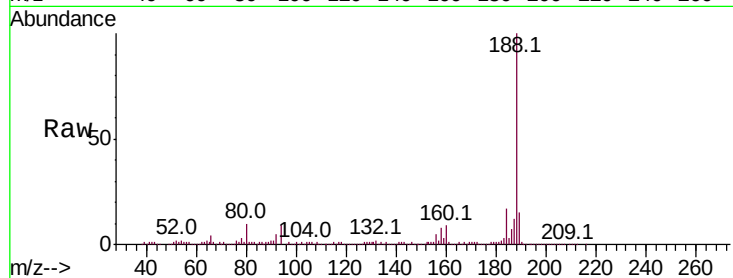
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampled :
MW-7BD

Tot Ion	Ratio	Resp	Lower	Upper
188	100	459449		
94	9.1		8.5	12.7
80	10.0		9.2	13.8

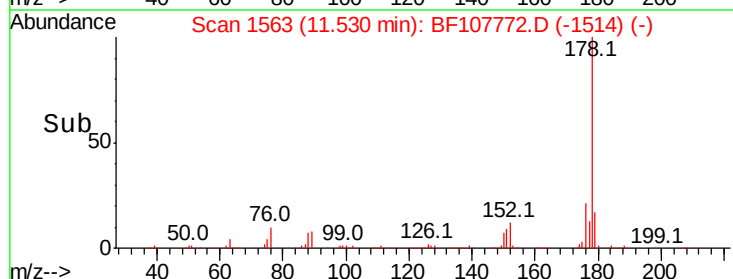
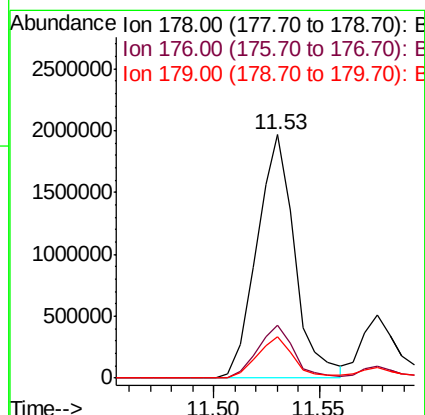
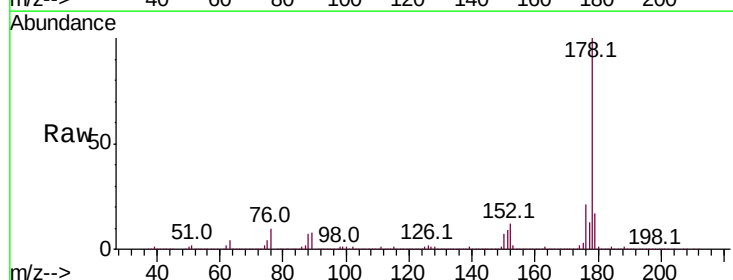
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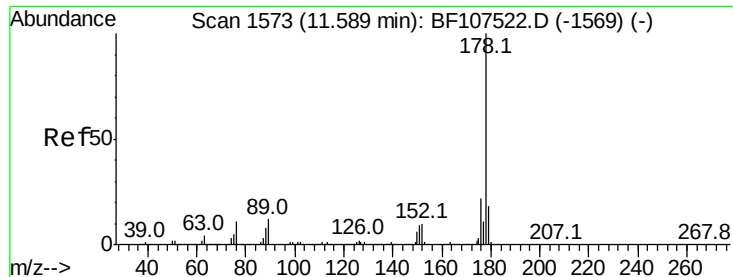
Sohil
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#70
Phenanthrene
Concen: 108.941 ng
RT: 11.53 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2439097		
176	21.5		15.8	23.8
179	17.1		13.0	19.6





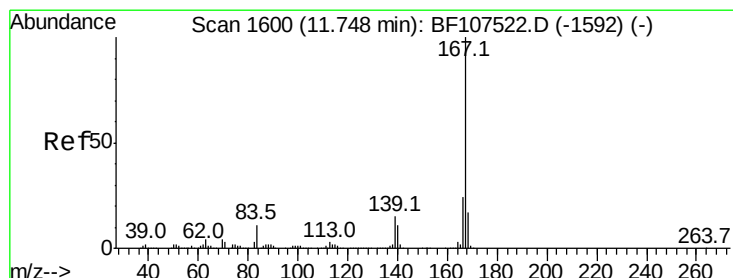
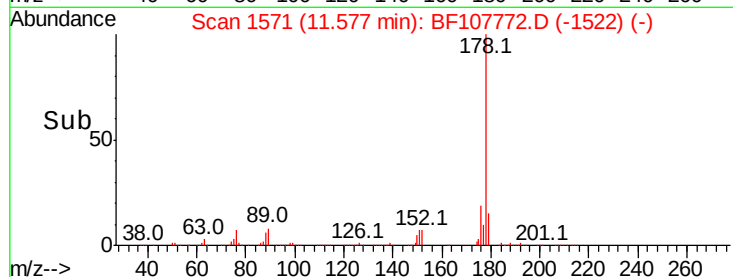
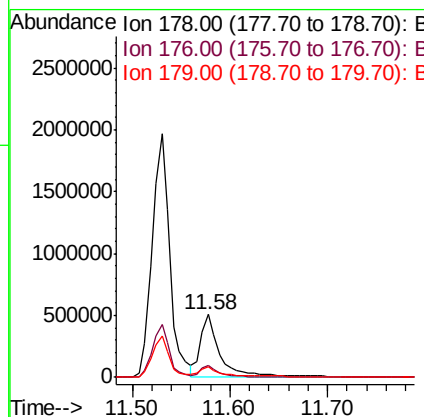
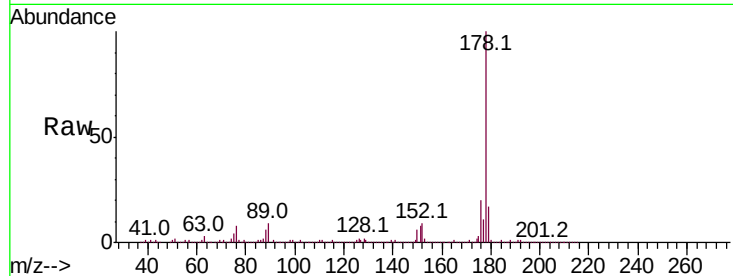
#71
 Anthracene
 Concen: 30.505 ng
 RT: 11.58 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Instrument :
 BNA_F
 ClientSampled :
 MW-7BD

Tot Ion:178	Resp: 687647
Ion Ratio	Lower Upper
178 100	
176 19.6	15.4 23.2
179 16.5	12.6 19.0

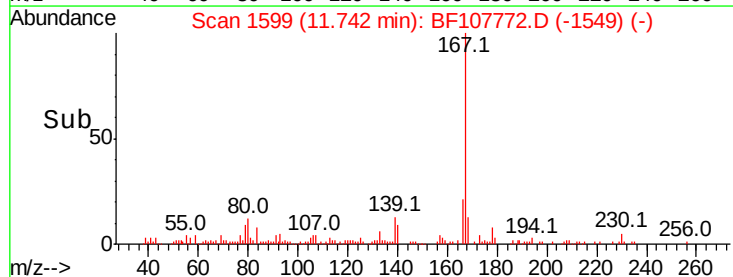
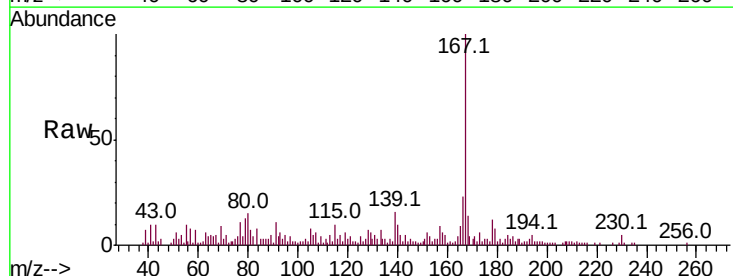
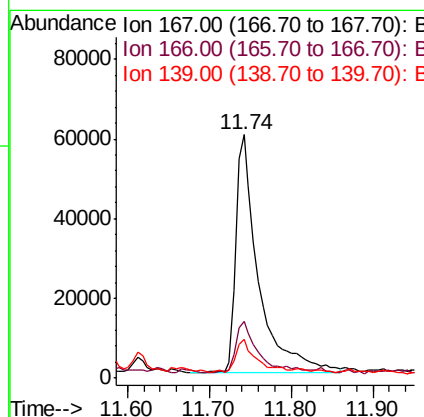
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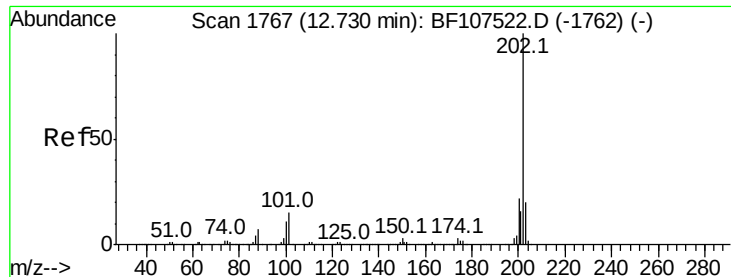
Sohil
 7/30/2018 2:03:33 PM



#72
 Carbazole
 Concen: 4.931 ng
 RT: 11.74 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BF107772.D
 Acq: 28 Jul 2018 3:49

Tgt Ion:167	Resp: 115593
Ion Ratio	Lower Upper
167 100	
166 23.3	17.6 26.4
139 15.9	10.9 16.3





#74

Fluoranthene

Concen: 27.513 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

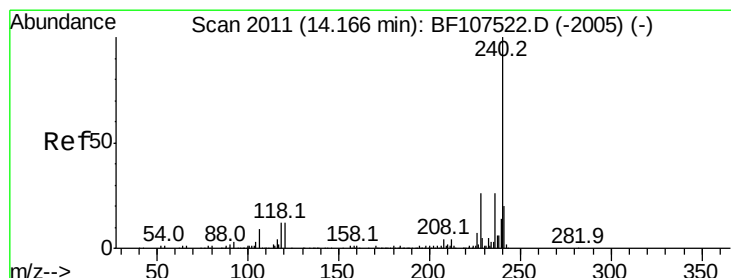
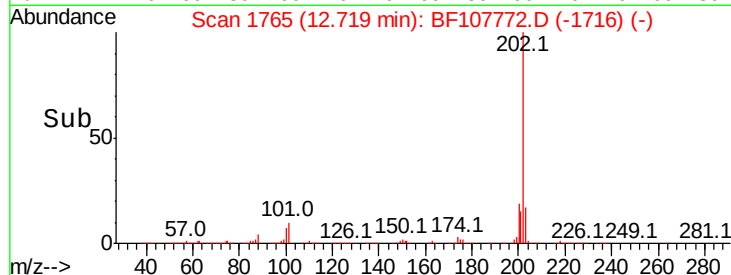
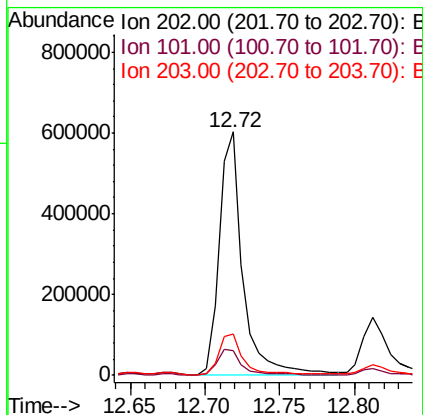
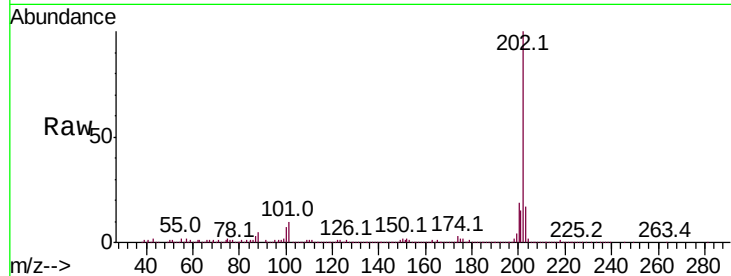
ClientSampleId :

MW-7BD

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.0	0.0	34.1
203	17.2	0.0	38.1

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7/30/2018 2:03:33 PM



#75

Chrysene-d12

Concen: 20.000 ng

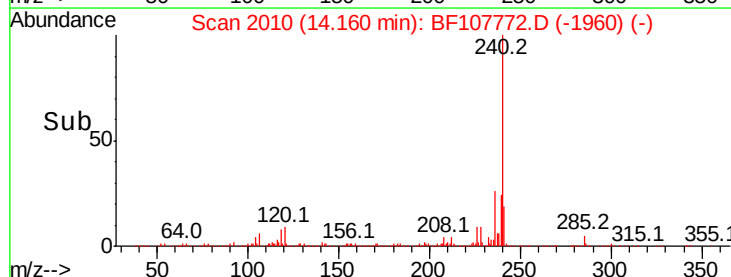
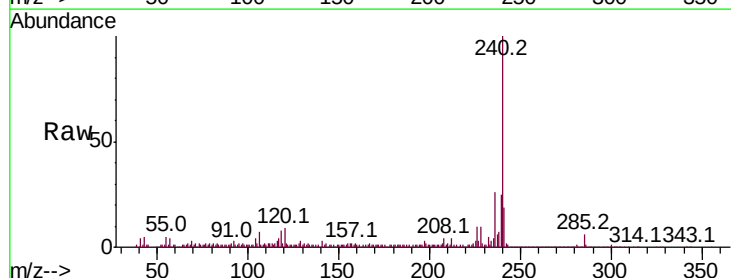
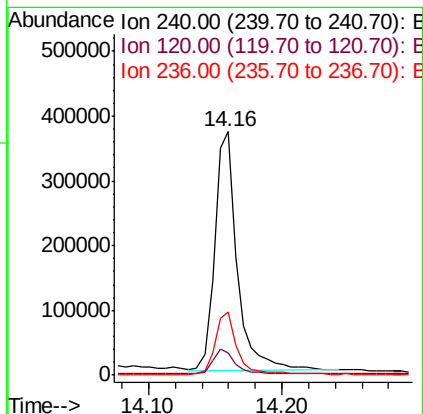
RT: 14.16 min Scan# 2010

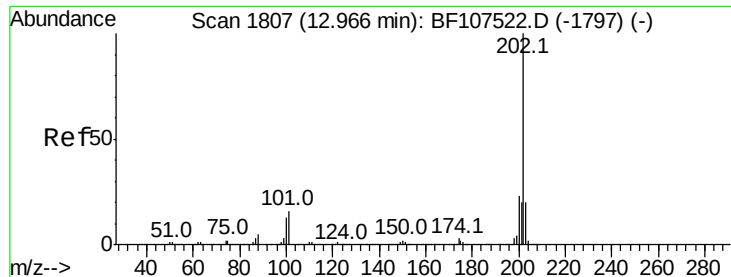
Delta R.T. -0.01 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.0	9.5	14.3#
236	25.9	20.7	31.1





#77

Pvrene

Concen: 29.260 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.02 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Instrument :

BNA_F

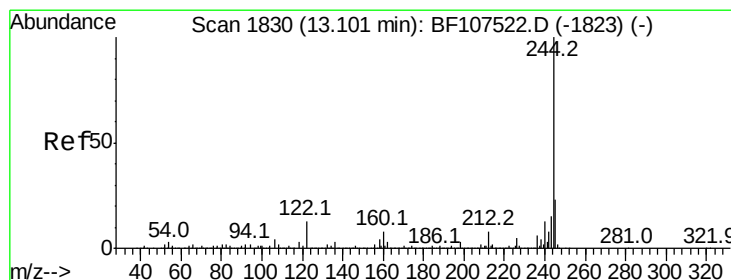
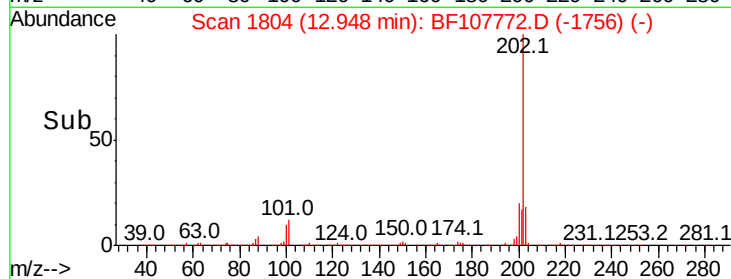
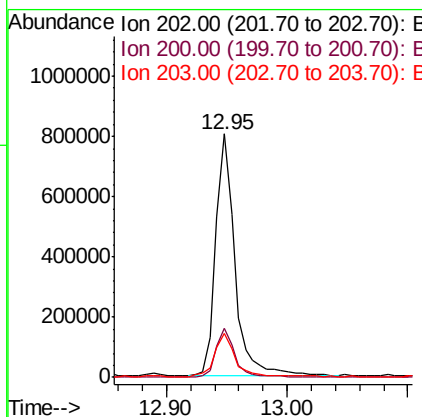
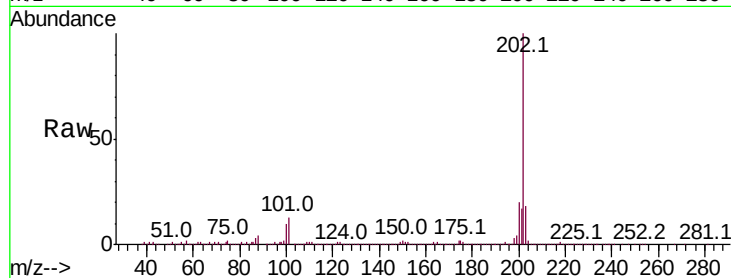
ClientSampled :

MW-7BD

Tot Ion:	202	Resp:	879529
Ion Ratio	Lower	Upper	
202	100		
200	20.0	17.4	26.2
203	18.1	14.3	21.5

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7/30/2018 2:03:33 PM



#78

Terphenyl-d14

Concen: 88.486 ng

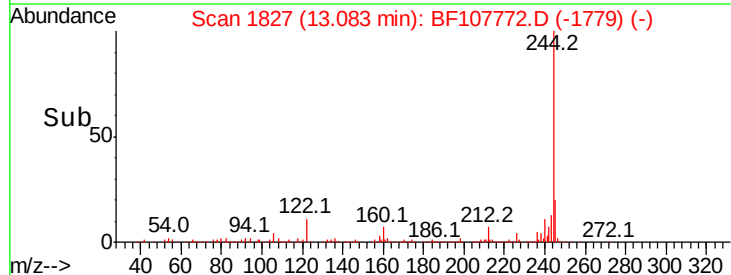
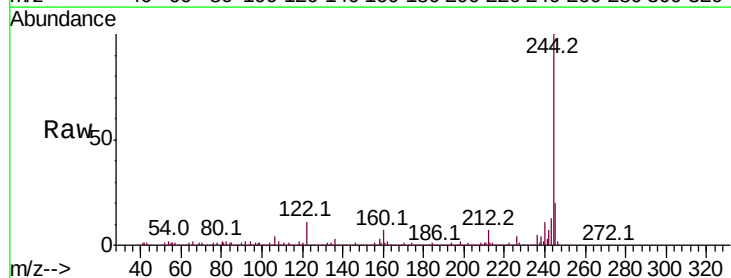
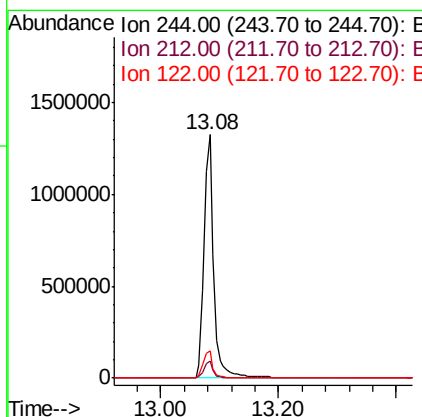
RT: 13.08 min Scan# 1827

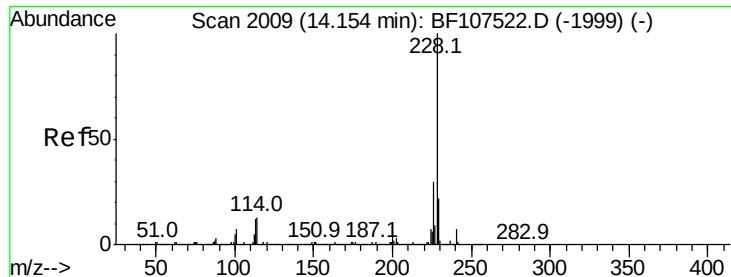
Delta R.T. -0.02 min

Lab File: BF107772.D

Acq: 28 Jul 2018 3:49

Tgt Ion:	244	Resp:	1518915
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	11.1	11.0	16.4





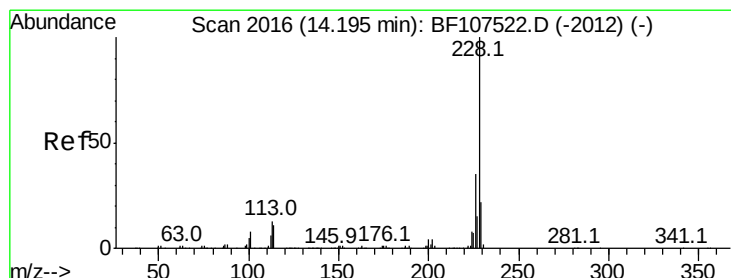
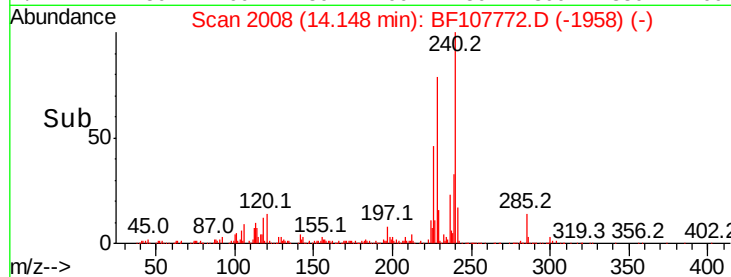
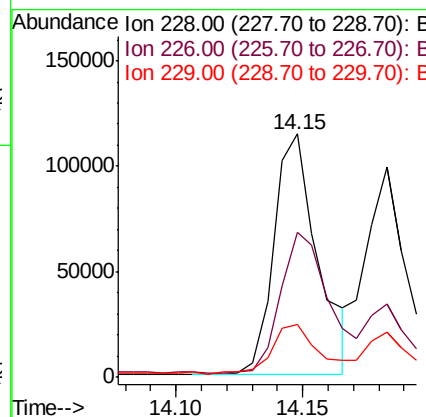
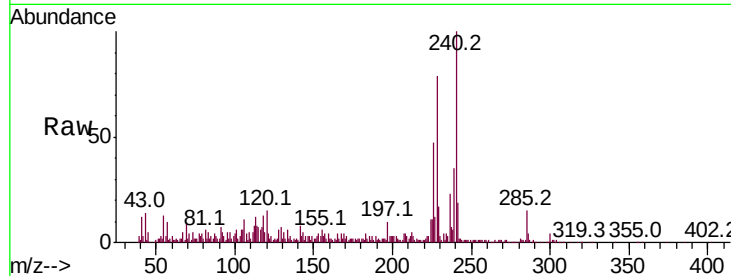
#80
Benzo(a)anthracene
Concen: 5.372 ng
RT: 14.15 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampleId :
MW-7BD

Tot Ion	Ratio	Lower	Upper
228	100		
226	59.6	22.6	33.8#
229	21.8	15.8	23.6

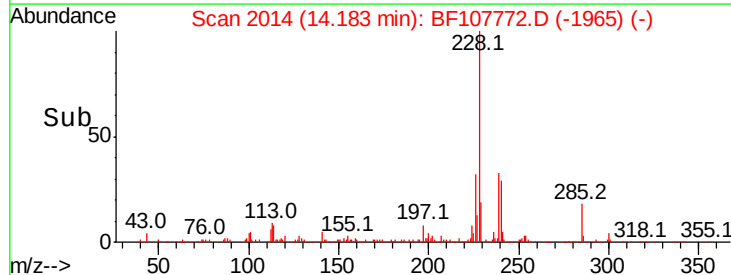
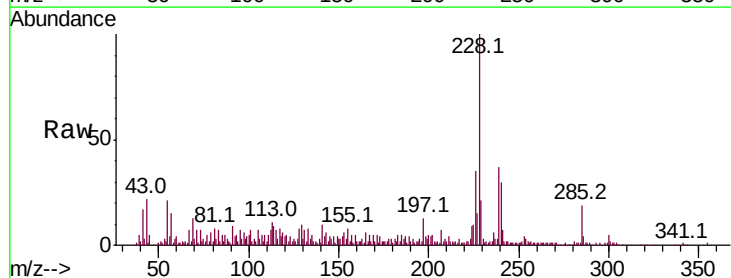
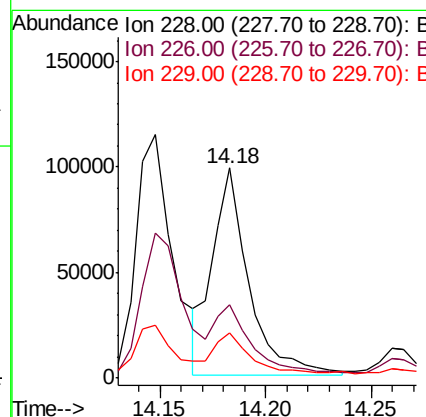
Manual Integrations
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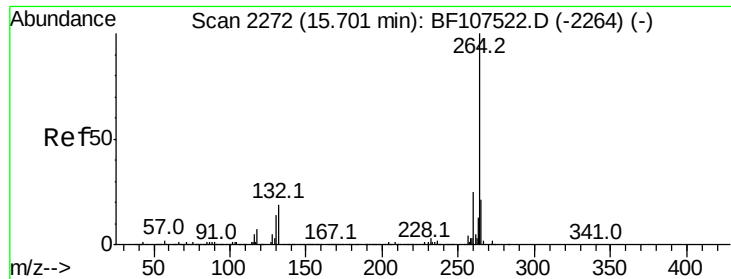
Sohil
7/30/2018 2:03:33 PM



#82
Chrysene
Concen: 4.827 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.7	25.0	37.6
229	21.3	16.2	24.4





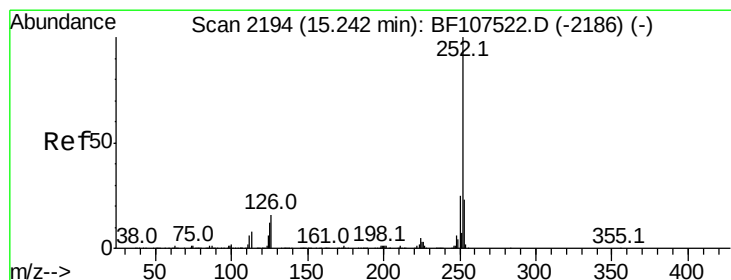
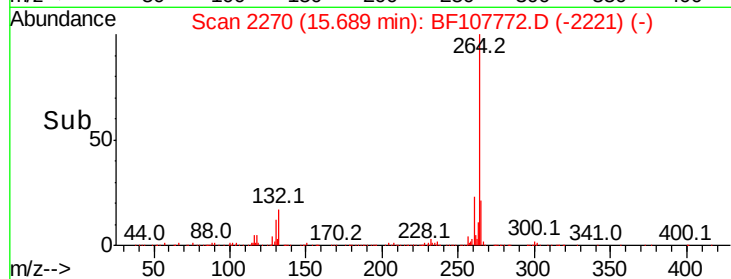
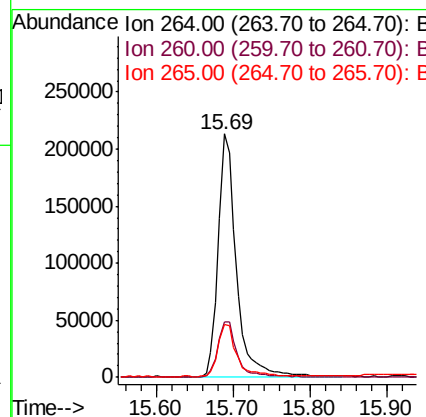
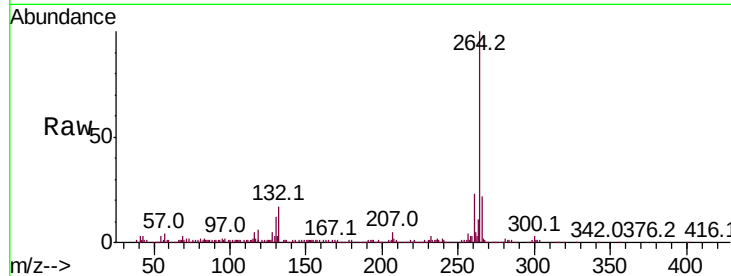
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampleId :
MW-7BD

Tot Ion:	264	Resp:	350450
Ion Ratio	Lower	Upper	
264	100		
260	22.8	19.2	28.8
265	21.5	17.5	26.3

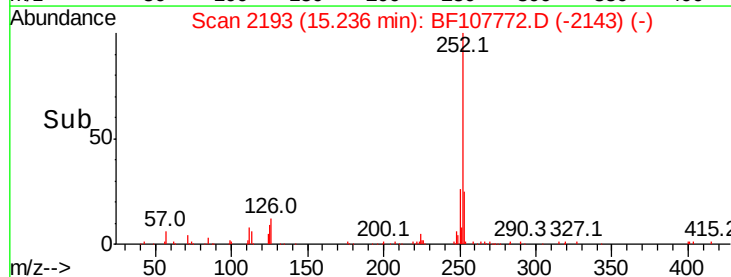
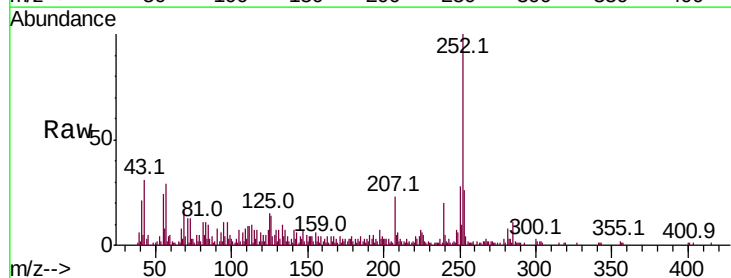
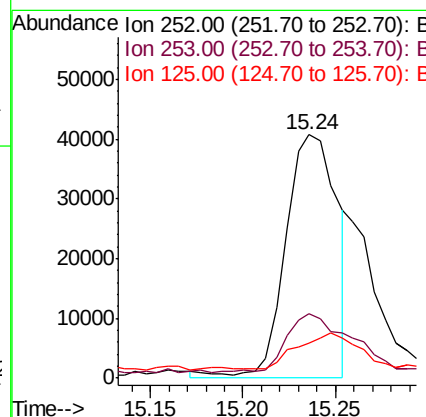
Manual Integrations
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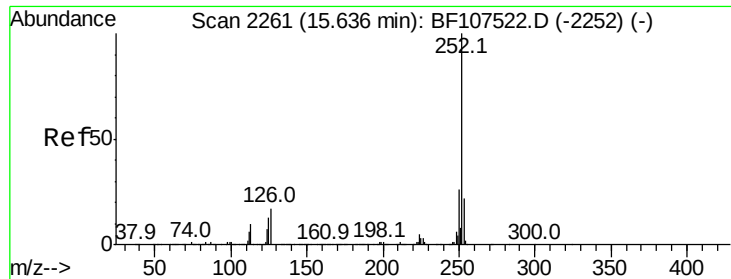
Sohil
7/30/2018 2:03:33 PM



#87
Benzo(b)fluoranthene
Concen: 4.124 ng m
RT: 15.24 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion:	252	Resp:	79100
Ion Ratio	Lower	Upper	
252	100		
253	26.4	17.0	25.6#
125	14.6	9.0	13.6#





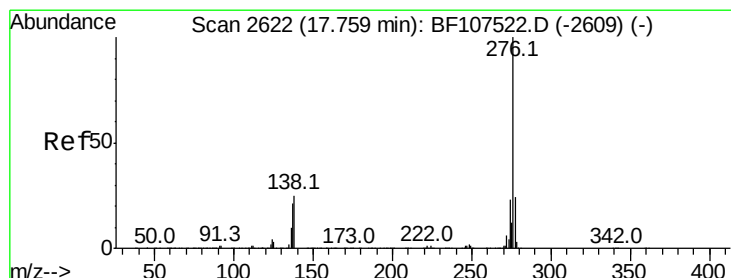
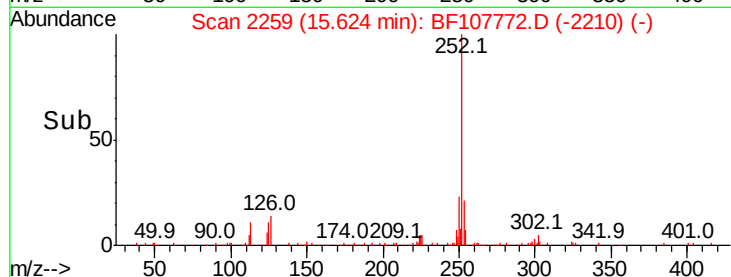
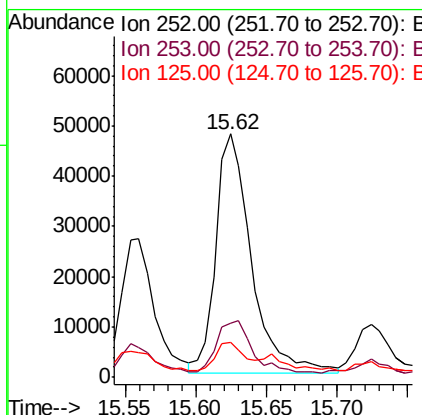
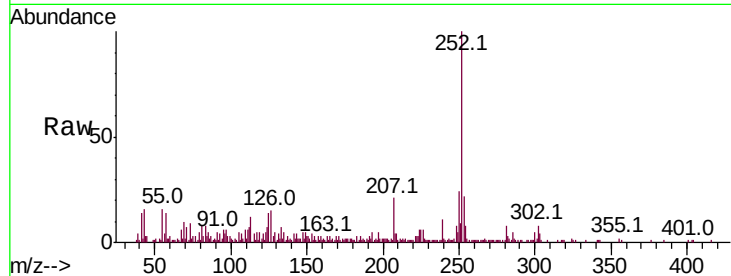
#89
Benzo(a)pyrene
Concen: 4.780 ng
RT: 15.62 min Scan# 2259
Delta R.T. -0.01 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Instrument :
BNA_F
ClientSampleId :
MW-7BD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	14.3	9.8	14.6

Manual Integrations
APPROVED

Sohil
7/30/2018 2:03:33 PM



#91
Benzo(g,h,i)perylene
Concen: 2.337 ng
RT: 17.74 min Scan# 2619
Delta R.T. -0.02 min
Lab File: BF107772.D
Acq: 28 Jul 2018 3:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	19.1	21.8	32.8#

