

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107710.D
 Acq On : 26 Jul 2018 19:59
 Operator : JU/SJ
 Sample : J4109-01 20X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)

Manual Integrations
 APPROVED

Sohil
 7/27/2018 2:53:55 PM

Quant Time: Jul 27 10:40:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	145528	20.00	ng	-0.02
21) Naphthalene-d8	8.25	136	607844	20.00	ng	-0.01
38) Acenaphthene-d10	10.00	164	309463	20.00	ng	-0.02
63) Phenanthrene-d10	11.50	188	510014	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	321995	20.00	ng	-0.01
86) Perylene-d12	15.68	264	435997	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	24482m	2.70	ng	0.08
7) Phenol-d6	6.62	99	45140	4.15	ng	0.01
23) Nitrobenzene-d5	7.54	82	32283	3.58	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	15258	4.34	ng	-0.02
44) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
78) Terphenyl-d14	13.08	244	60826	4.84	ng	-0.02
Target Compounds						
27) 2,4-Dimethylphenol	7.92	122	19192	2.327	ng	Qvalue 92
31) Naphthalene	8.28	128	6011782	224.912	ng	# 90
37) 2-Methylnaphthalene	8.96	142	1746727	94.303	ng	97
45) 1,1'-Biphenyl	9.42	154	586895	21.771	ng	98
48) Acenaphthylene	9.87	152	1499831	48.454	ng	97
51) Acenaphthene	10.04	154	377840	19.482	ng	97
54) Dibenzofuran	10.21	168	2093326	73.315	ng	96
57) Fluorene	10.56	166	2380352	116.857	ng	96
70) Phenanthrene	11.54	178	5326805m	214.331	ng	
71) Anthracene	11.58	178	2244378m	89.691	ng	
72) Carbazole	11.74	167	946984	36.393	ng	99
74) Fluoranthene	12.73	202	4058874	152.193	ng	96
77) Pyrene	12.96	202	3314284	150.480	ng	95
80) Benzo(a)anthracene	14.14	228	1844770	97.765	ng	# 90
82) Chrysene	14.18	228	1506619	83.119	ng	95
85) Indeno(1,2,3-cd)pyrene	17.26	276	697094	45.377	ng	# 87
87) Benzo(b)fluoranthene	15.24	252	1755997m	73.591	ng	
88) Benzo(k)fluoranthene	15.26	252	827827m	35.411	ng	
89) Benzo(a)pyrene	15.62	252	1480080	67.810	ng	95
90) Dibenzo(a,h)anthracene	17.27	278	209022m	11.078	ng	
91) Benzo(g,h,i)perylene	17.74	276	566030	30.414	ng	# 92

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

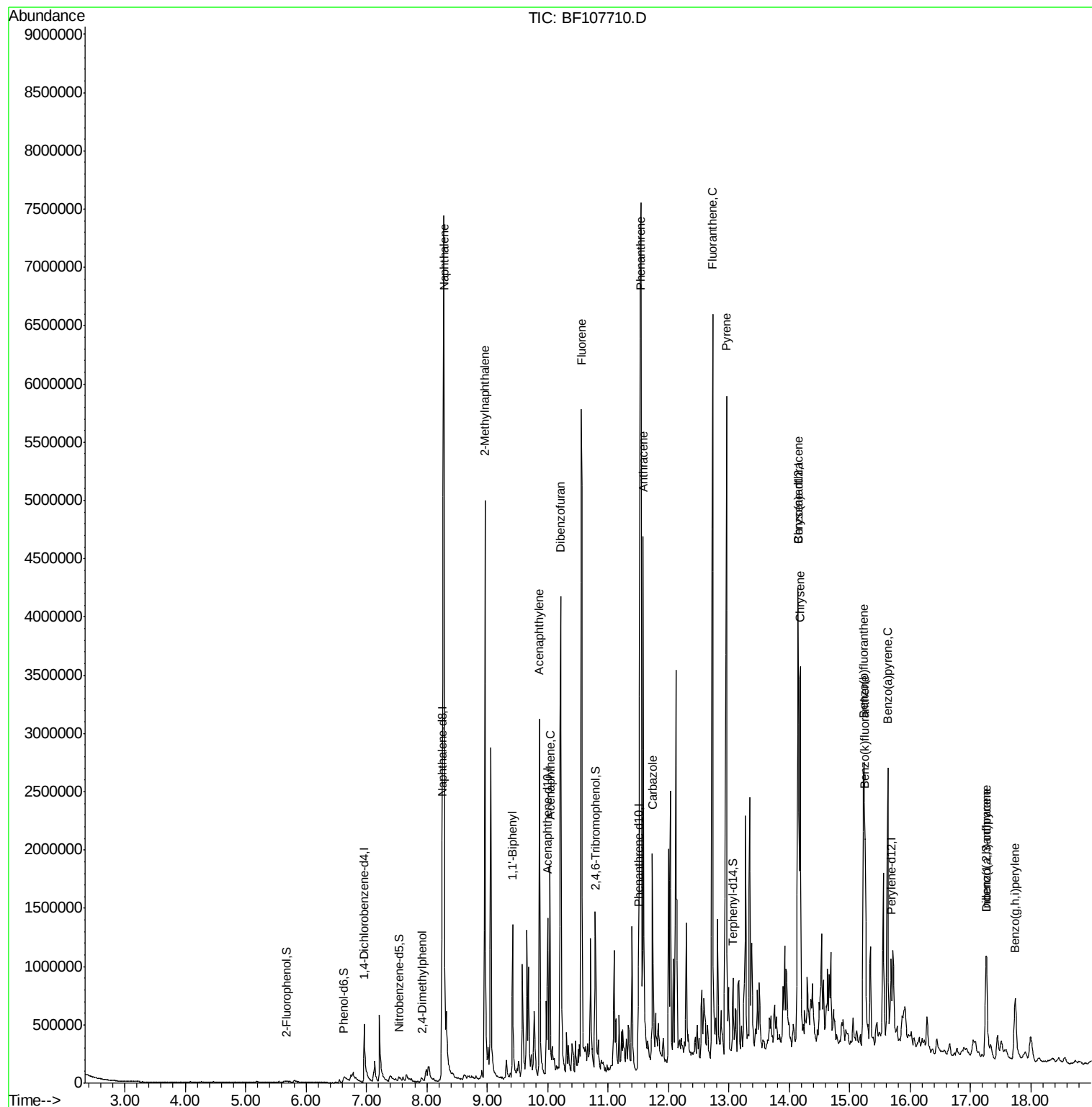
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

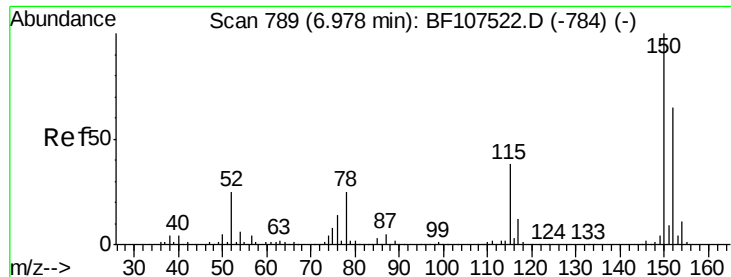
Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Manual Integrations
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7/27/2018 2:53:55 PM

Quant Time: Jul 27 10:40:14 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 20 16:29:27 2018
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#1

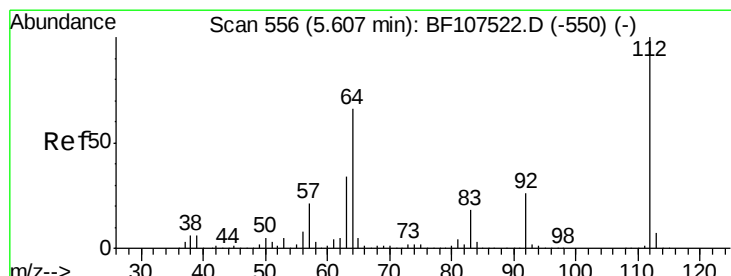
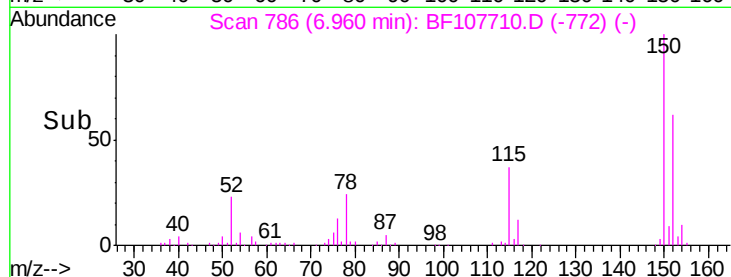
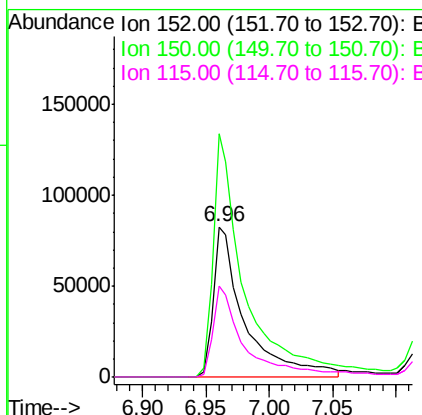
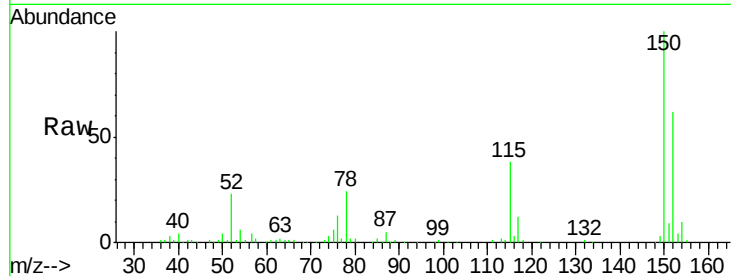
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.9	124.6	186.8
115	61.1	50.1	75.1

Manual Integrations
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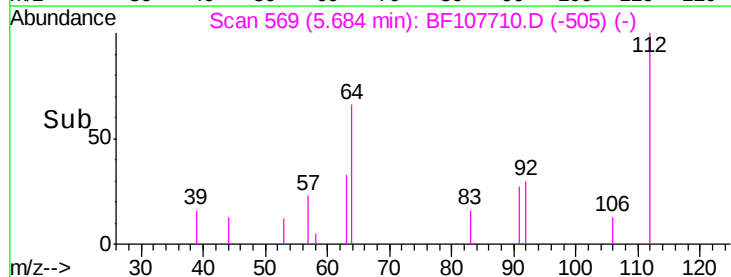
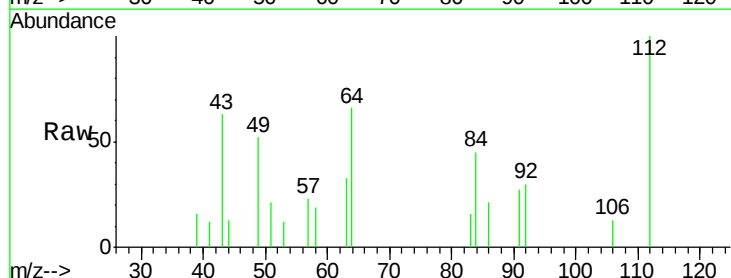
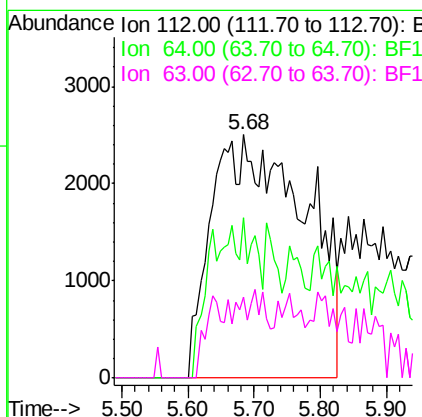
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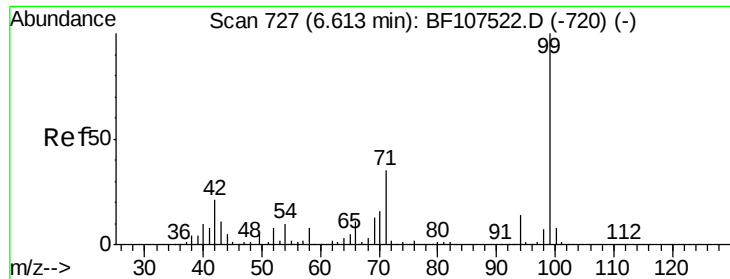


#5

2-Fluorophenol
Concen: 2.705 ng m
RT: 5.68 min Scan# 569
Delta R.T. 0.08 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	47.9	71.9
63	33.4	23.7	35.5





#7

Phenol-d6

Concen: 4.153 ng

RT: 6.62 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

Instrument :

BNA_F

ClientSampleId :

GW-04(3-5)

Tgt Ion: 99 Resp: 45140

Ion Ratio Lower Upper

99 100

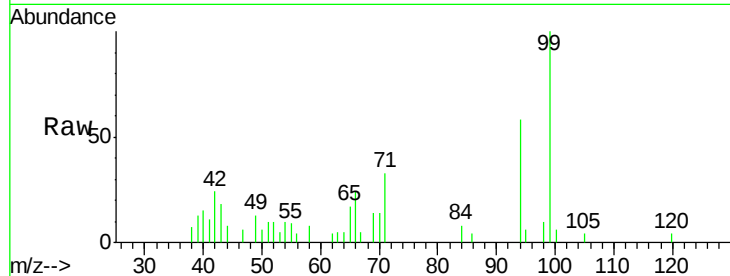
42 24.0 14.5 21.7#

71 32.6 25.4 38.0

Manual Integrations
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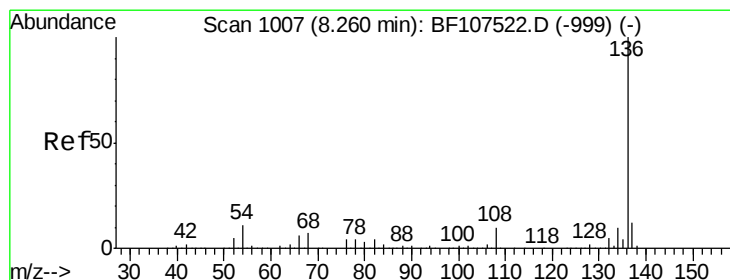
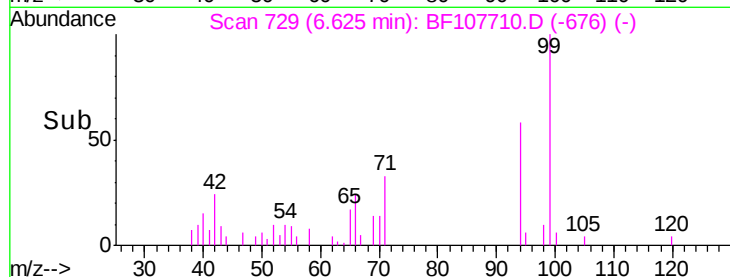
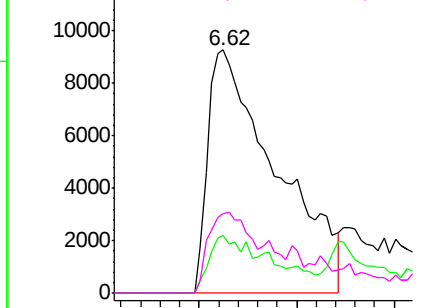
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

Tgt Ion: 136 Resp: 607844

Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 9.6 6.6 9.8

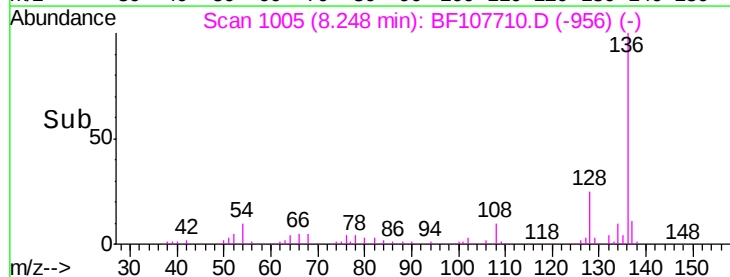
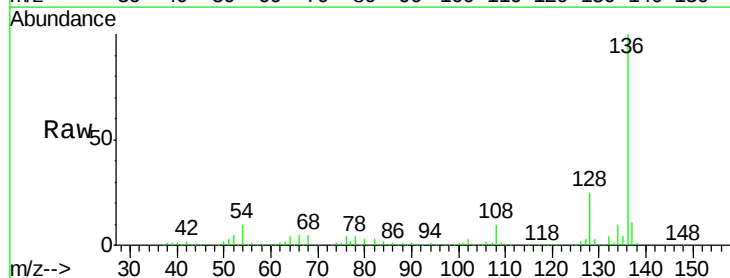
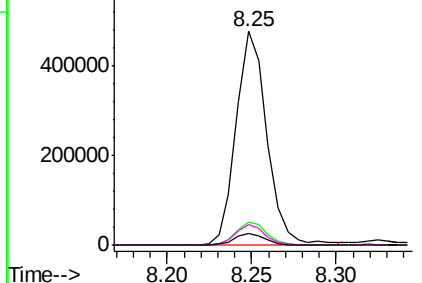
68 5.5 5.0 7.4

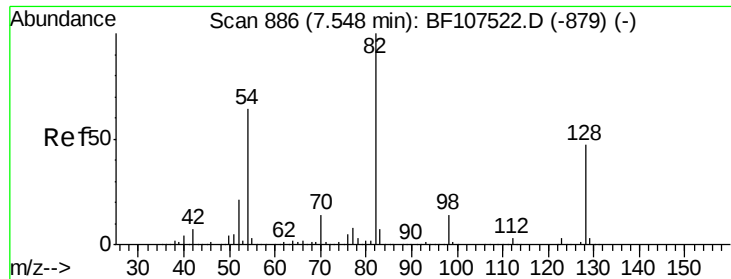
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





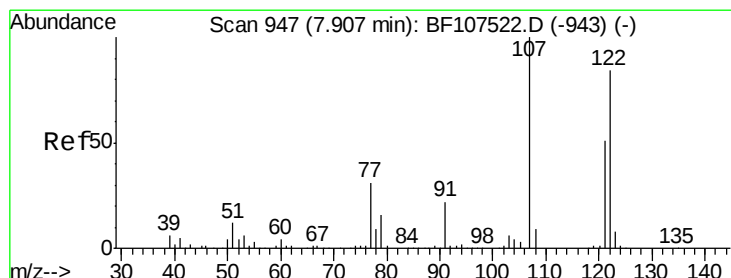
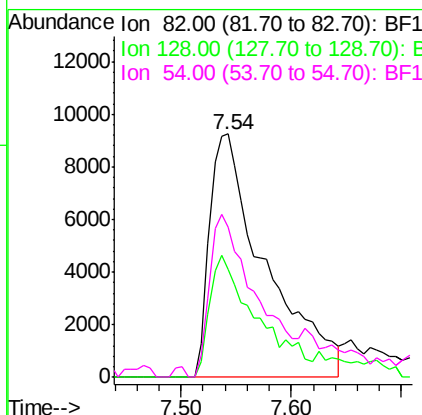
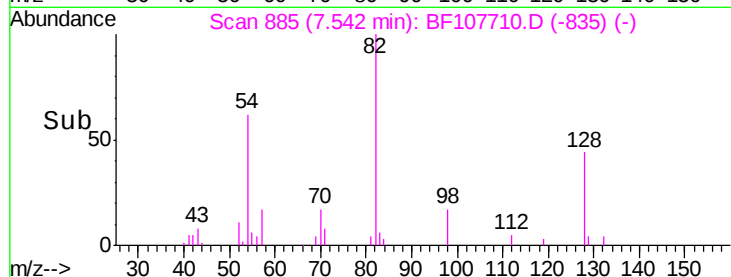
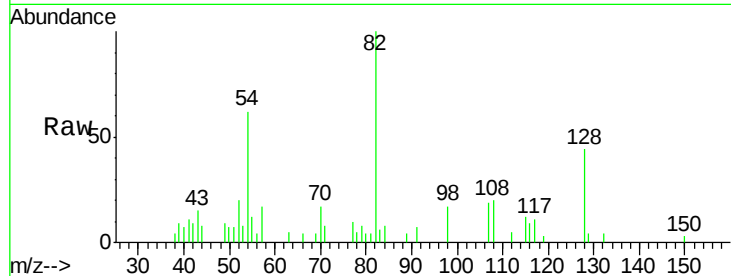
#23
Nitrobenzene-d5
Concen: 3.584 ng
RT: 7.54 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	32283		
128	44.1	36.1	54.1	
54	61.9	41.4	62.2	

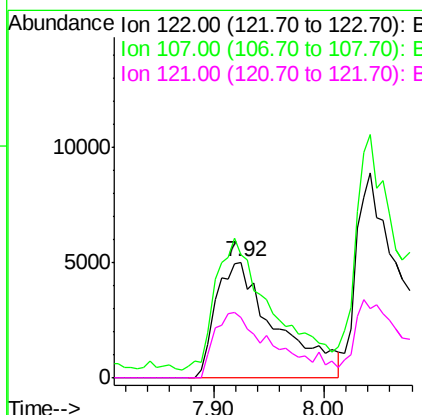
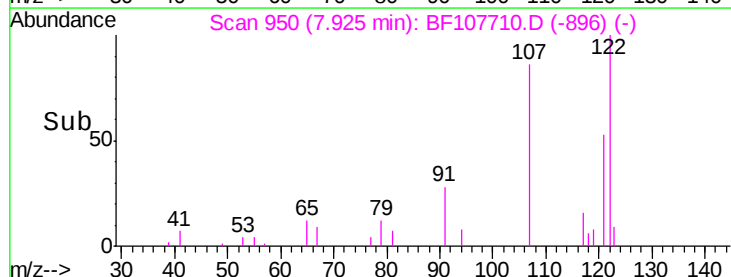
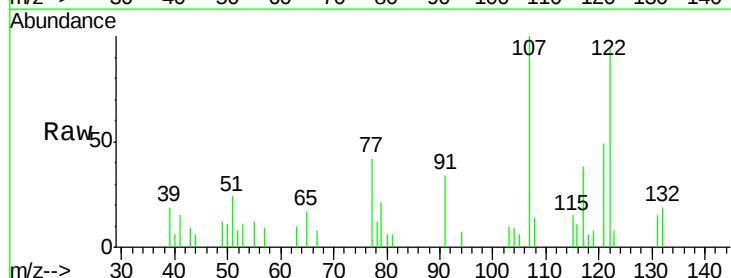
Manual Integrations
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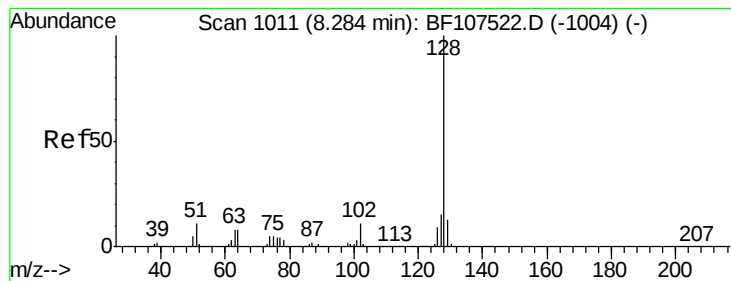
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#27
2,4-Dimethylphenol
Concen: 2.327 ng
RT: 7.92 min Scan# 950
Delta R.T. 0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	19192		
107	106.2	91.2	136.8	
121	52.6	47.2	70.8	





#31

Naphthalene

Concen: 224.912 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

Instrument :

BNA_F

ClientSampleId :

GW-04(3-5)

Tgt Ion:128 Resp: 6011782

Ion Ratio Lower Upper

128 100

129 14.6 8.8 13.2#

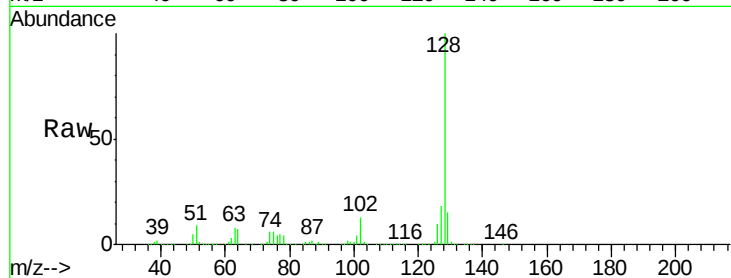
127 17.6 10.9 16.3#

Manual Integrations

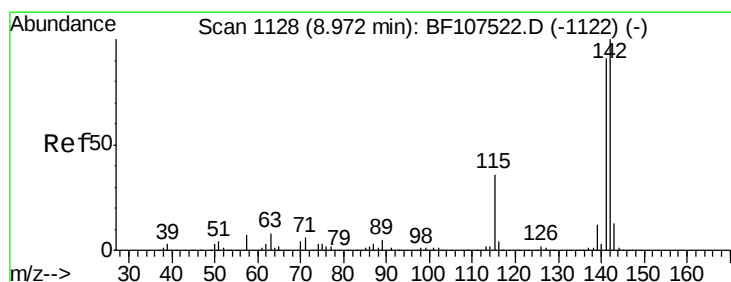
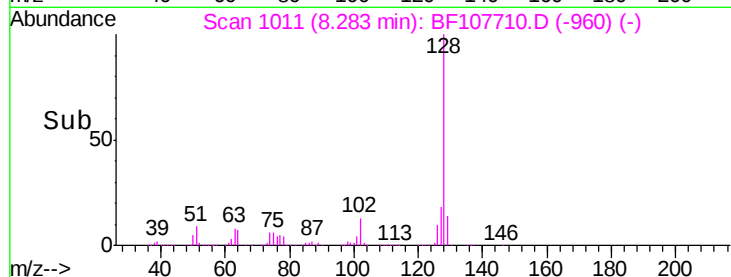
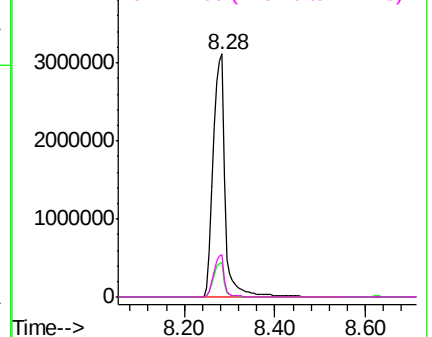
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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 94.303 ng

RT: 8.96 min Scan# 1126

Delta R.T. -0.01 min

Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

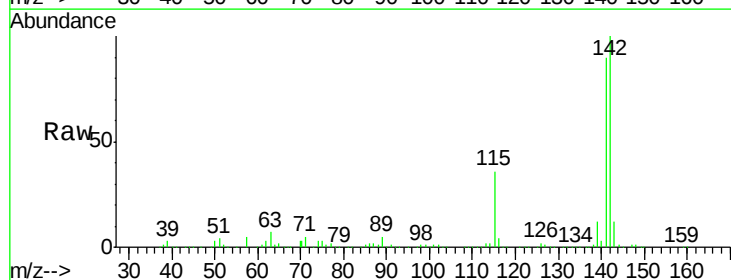
Tgt Ion:142 Resp: 1746727

Ion Ratio Lower Upper

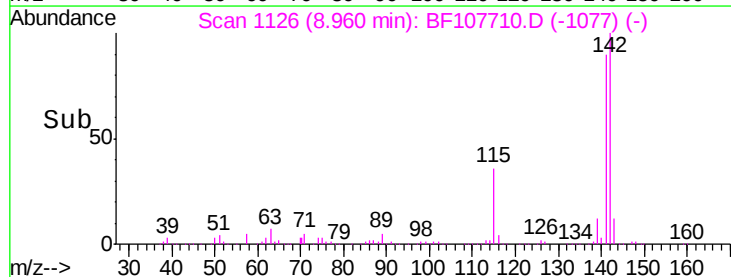
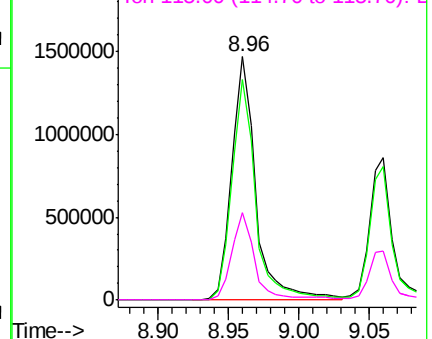
142 100

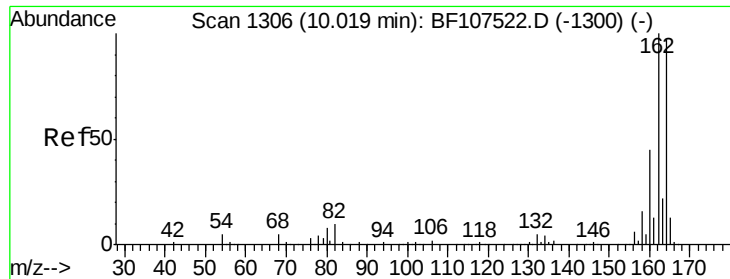
141 90.5 70.8 106.2

115 35.8 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





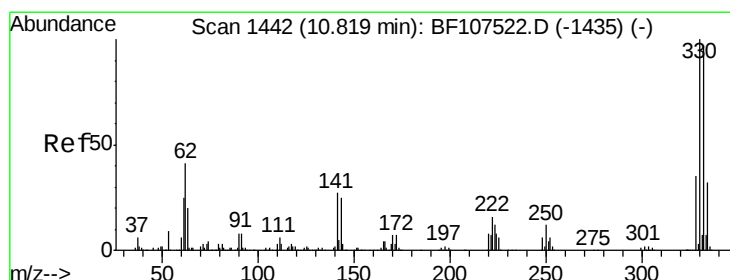
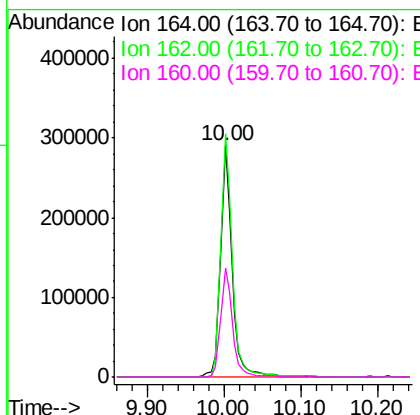
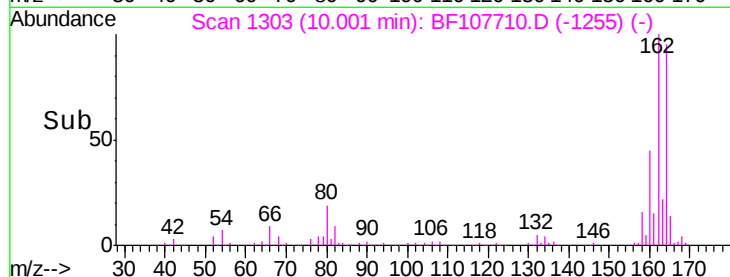
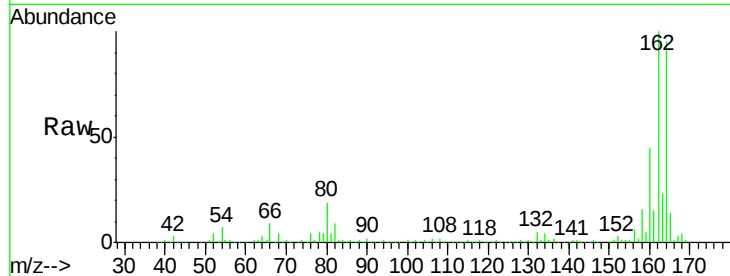
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	309463		
162	105.1	86.1	129.1	
160	47.1	38.3	57.5	

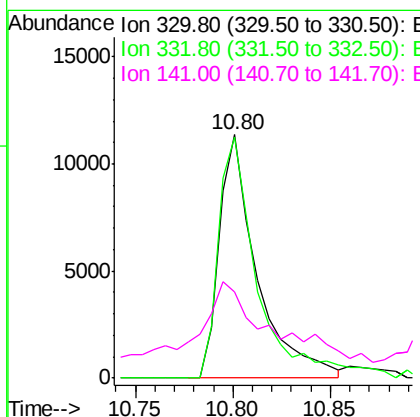
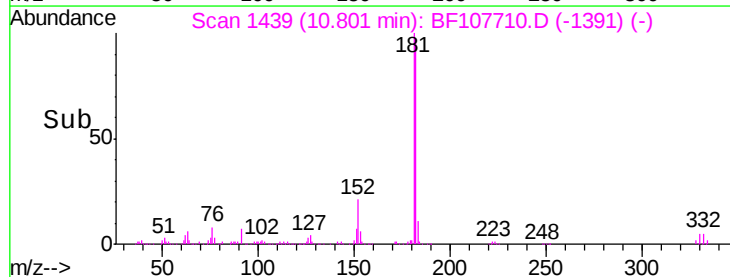
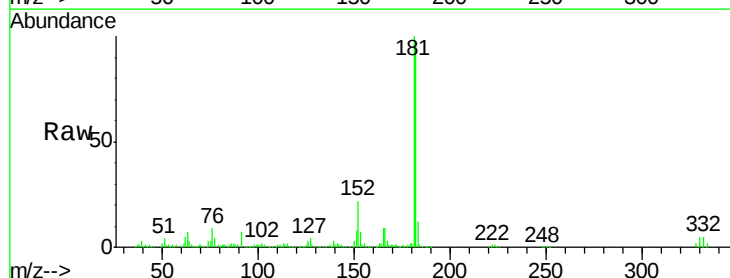
Manual Integrations
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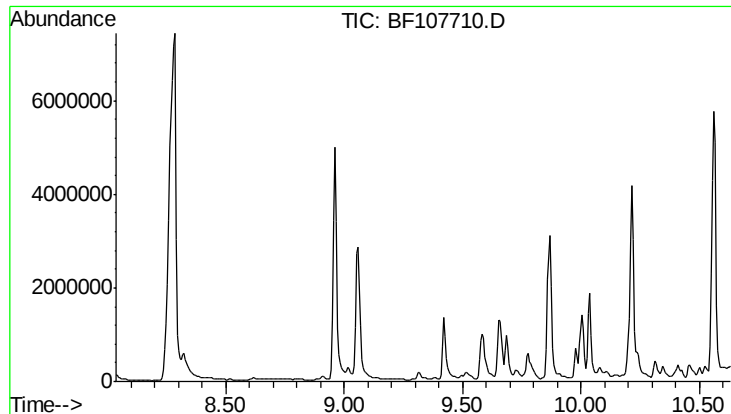
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#41
2,4,6-Tribromophenol
Concen: 4.336 ng
RT: 10.80 min Scan# 1439
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	15258		
332	103.6	77.0	115.6	
141	60.0	29.9	44.9#	





#44
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.34 min

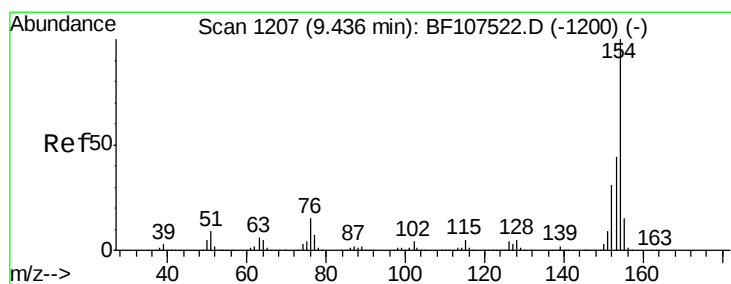
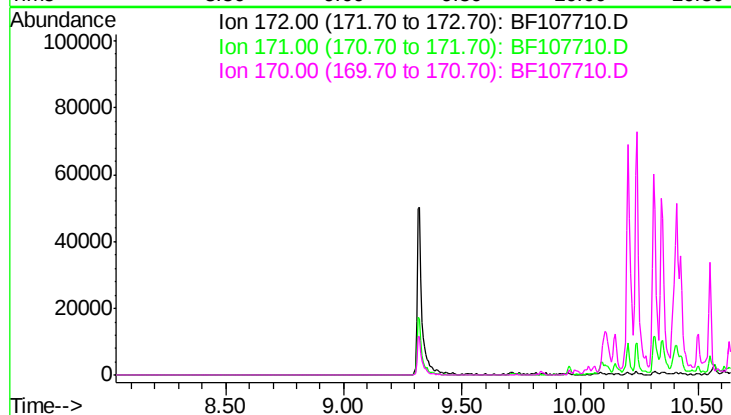
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Manual Integrations
APPROVED

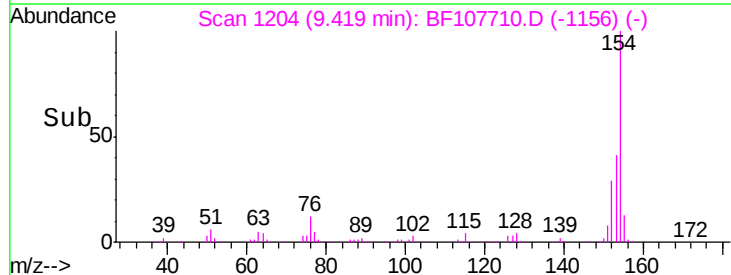
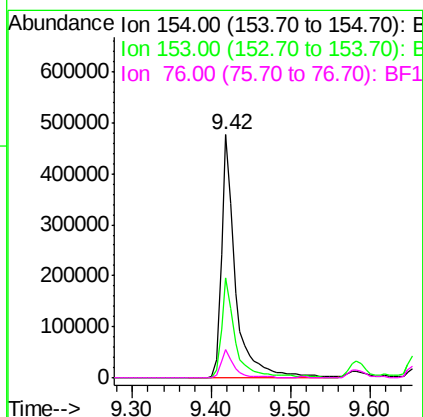
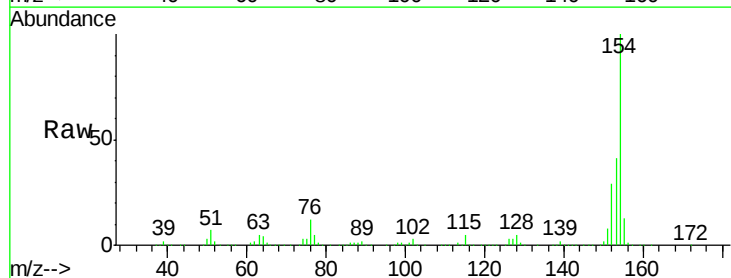
Sohil
7/27/2018 2:53:55 PM

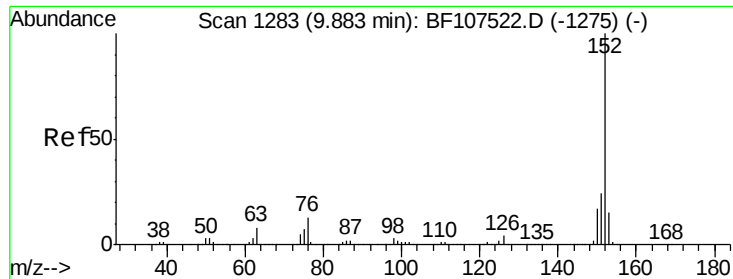
Tgt Ion: 172
Sig Exp Ratio
172 100
171 37.1
170 24.5



#45
1,1'-Biphenyl
Concen: 21.771 ng
RT: 9.42 min Scan# 1204
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion: 154 Resp: 586895
Ion Ratio Lower Upper
154 100
153 41.0 21.3 61.3
76 11.8 0.0 34.0





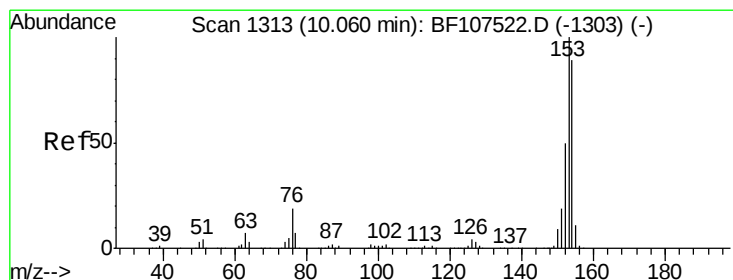
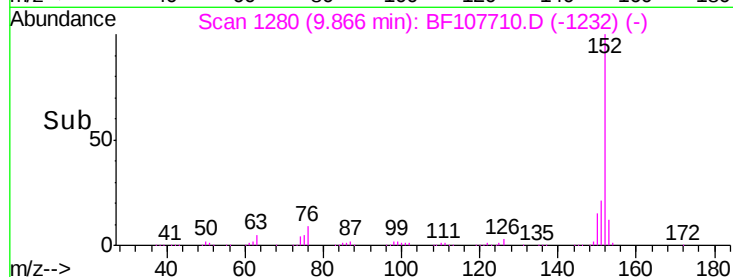
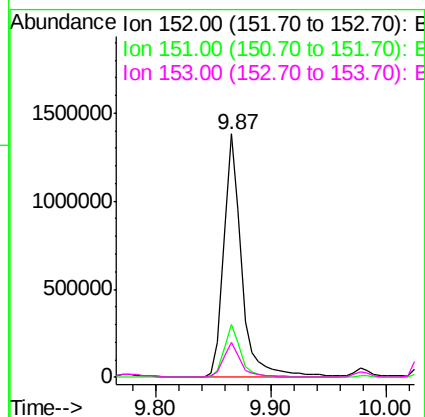
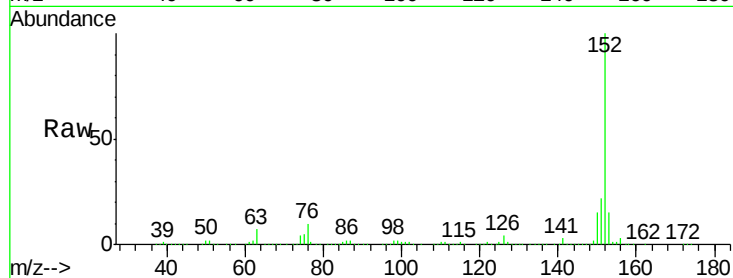
#48
Acenaphthylene
Concen: 48.454 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.3	24.5
153	14.5	10.7	16.1

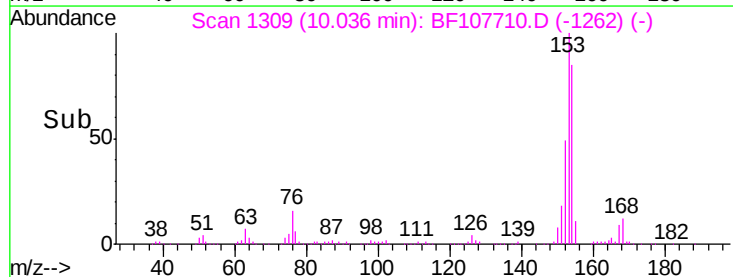
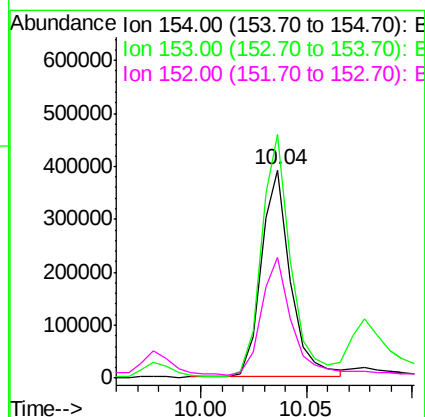
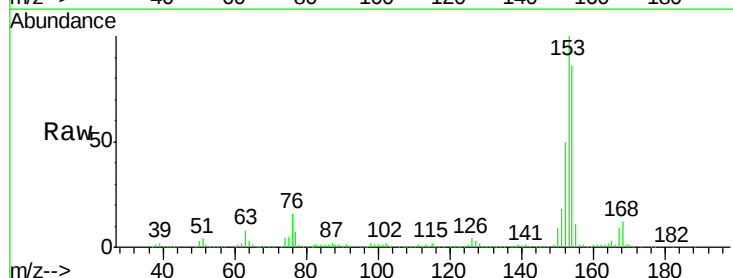
Manual Integrations
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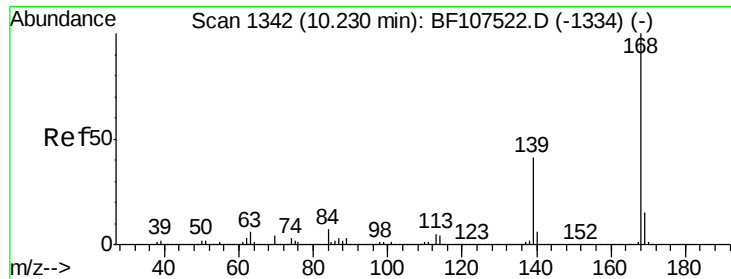
Sohil
7/27/2018 2:53:55 PM



#51
Acenaphthene
Concen: 19.482 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.9	91.2	136.8
152	57.9	43.8	65.8





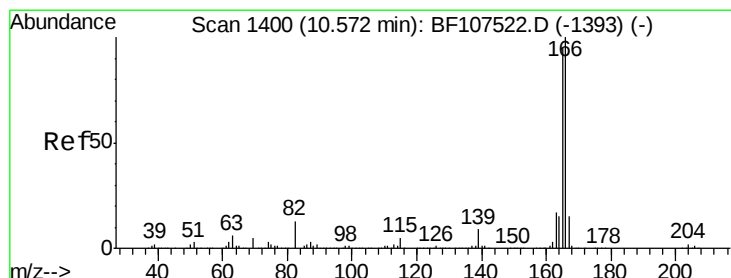
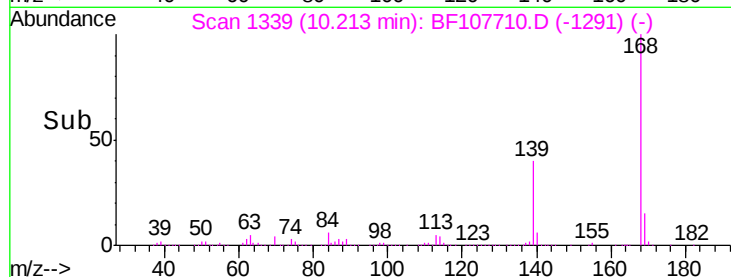
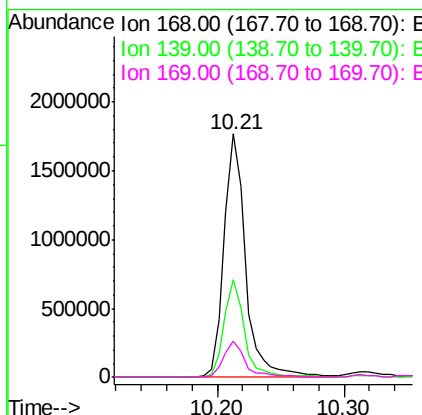
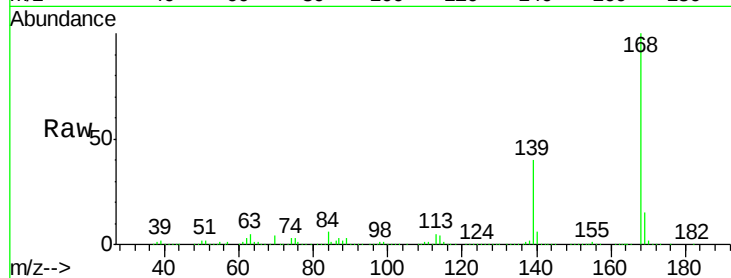
#54
Dibenzenofuran
Concen: 73.315 ng
RT: 10.21 min Scan# 1339
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion:168 Resp: 2093326
Ion Ratio Lower Upper
168 100
139 40.3 30.1 45.1
169 14.9 10.9 16.3

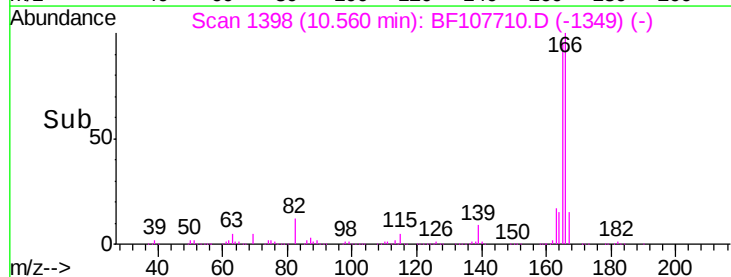
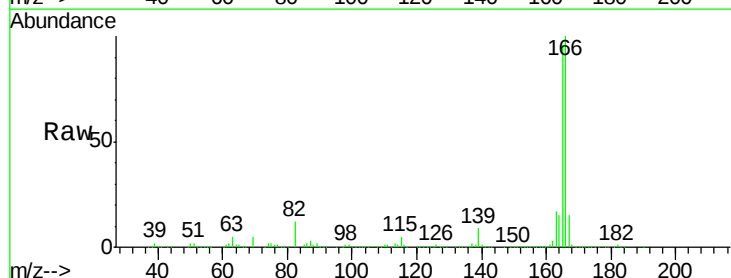
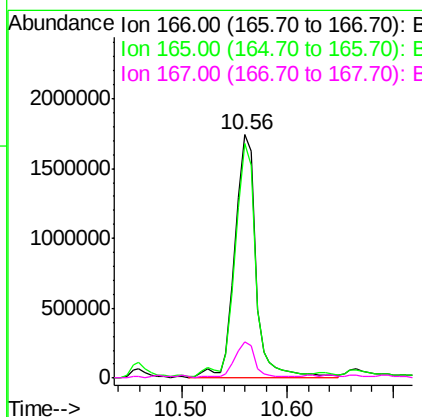
Manual Integrations
APPROVED

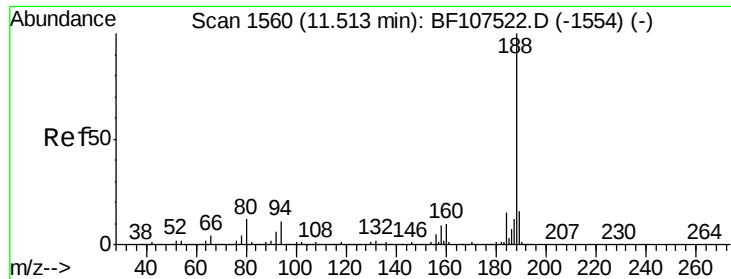
Sohil
7/27/2018 2:53:55 PM



#57
Fluorene
Concen: 116.857 ng
RT: 10.56 min Scan# 1398
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion:166 Resp: 2380352
Ion Ratio Lower Upper
166 100
165 96.2 79.8 119.8
167 15.1 10.6 16.0





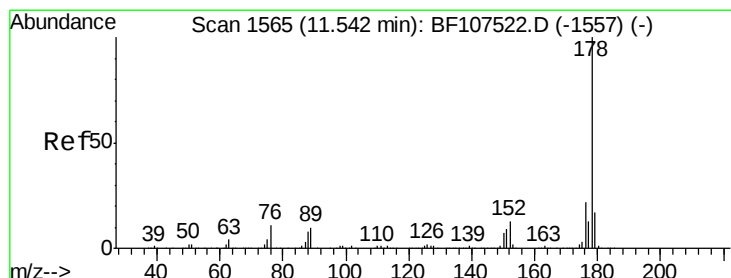
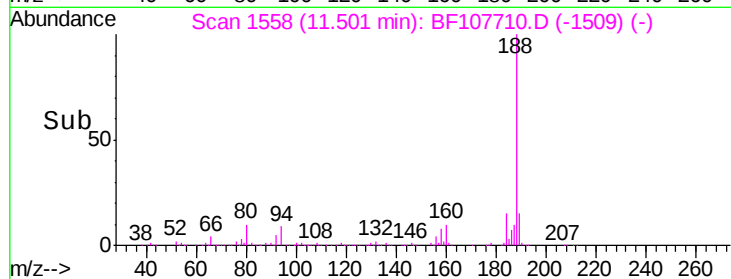
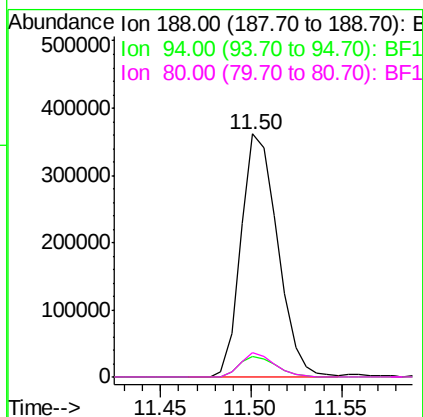
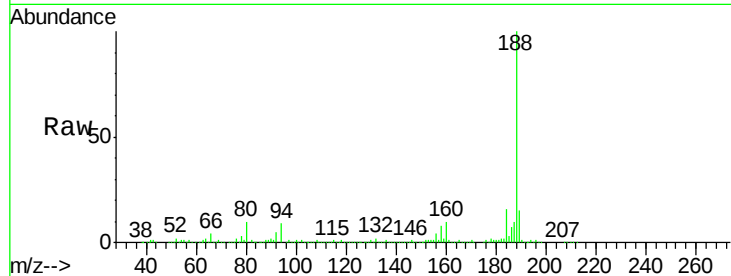
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	8.8	8.5	12.7
80	9.9	9.2	13.8

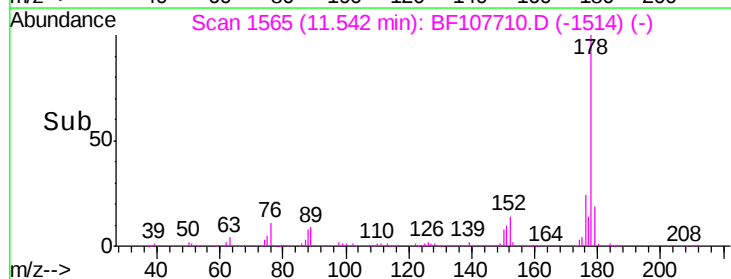
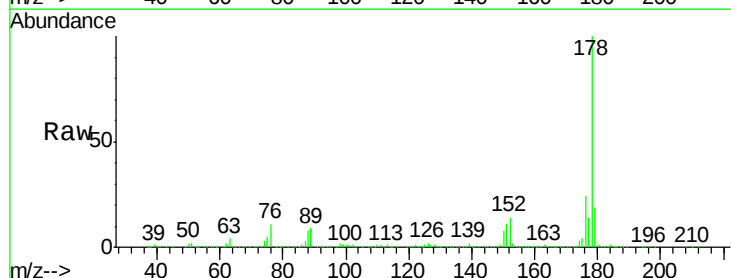
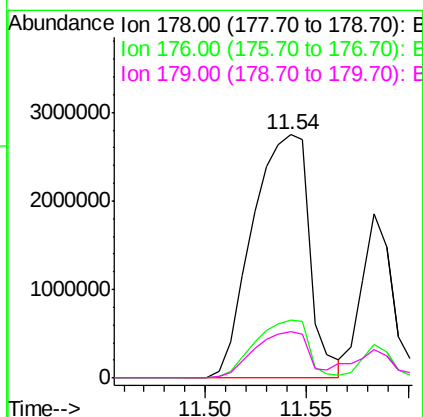
Manual Integrations
APPROVED

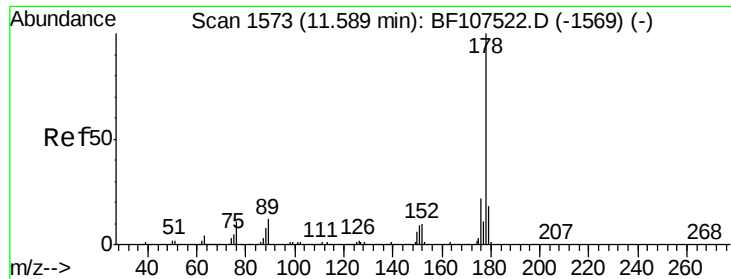
Sohil
7/27/2018 2:53:55 PM



#70
Phenanthrene
Concen: 214.331 ng m
RT: 11.54 min Scan# 1565
Delta R.T. 0.00 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	24.0	15.8	23.8#
179	19.2	13.0	19.6





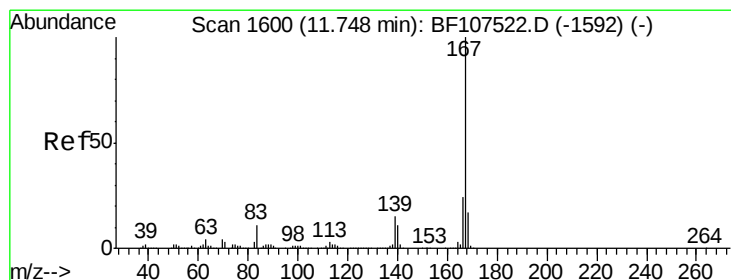
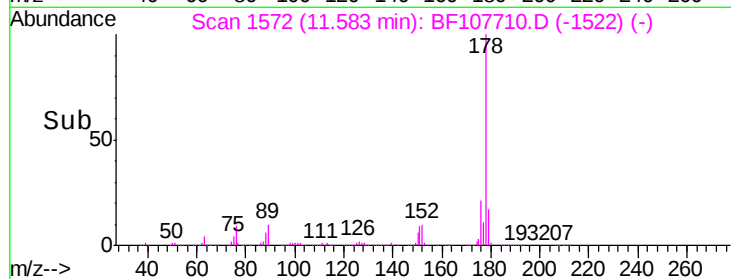
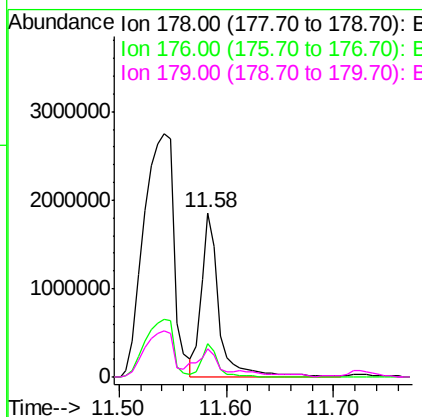
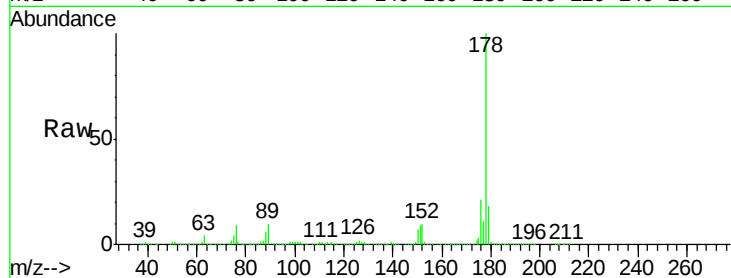
#71
 Anthracene
 Concen: 89.691 ng m
 RT: 11.58 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF107710.D
 Acq: 26 Jul 2018 19:59

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)

Tgt Ion:178 Resp: 2244378
 Ion Ratio Lower Upper
 178 100
 176 20.7 15.4 23.2
 179 17.5 12.6 19.0

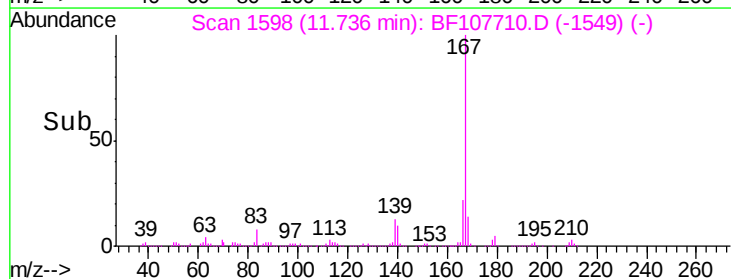
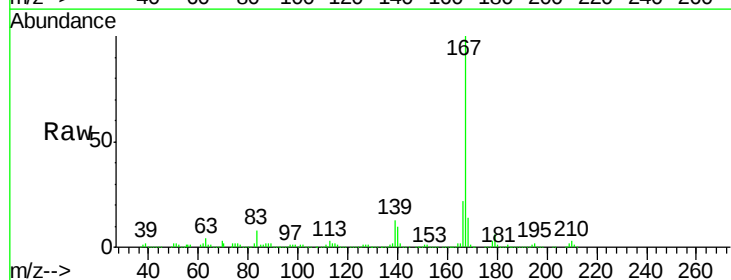
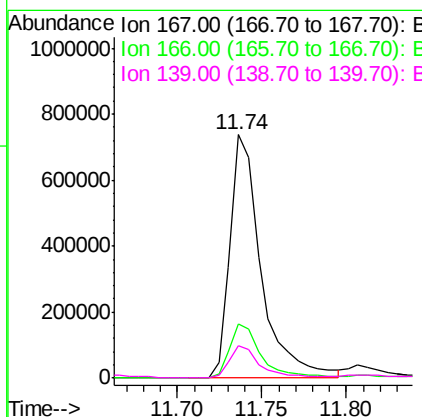
Manual Integrations
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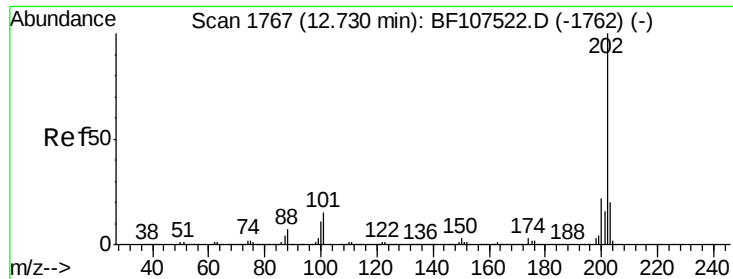
Sohil
 7/27/2018 2:53:55 PM



#72
 Carbazole
 Concen: 36.393 ng
 RT: 11.74 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF107710.D
 Acq: 26 Jul 2018 19:59

Tgt Ion:167 Resp: 946984
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.6 26.4
 139 13.1 10.9 16.3





#74

Fluoranthene

Concen: 152.193 ng

RT: 12.73 min Scan# 1767

Delta R.T. 0.00 min

Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

Instrument :

BNA_F

ClientSampleId :

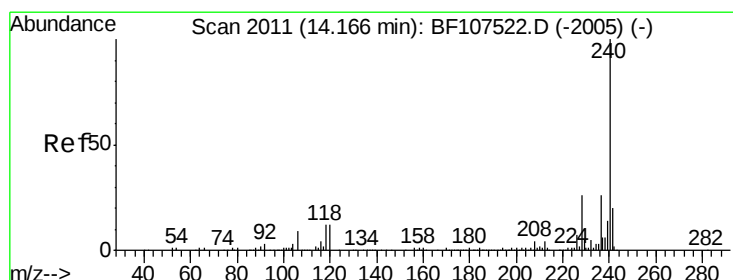
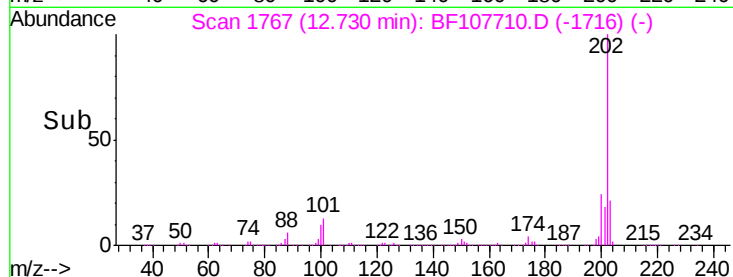
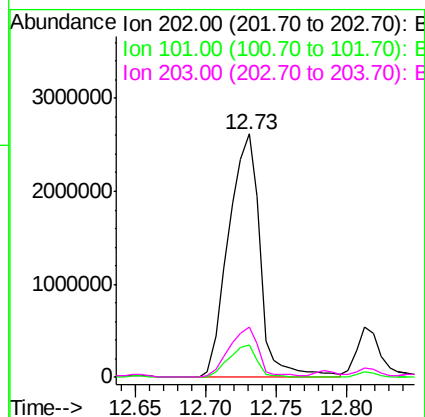
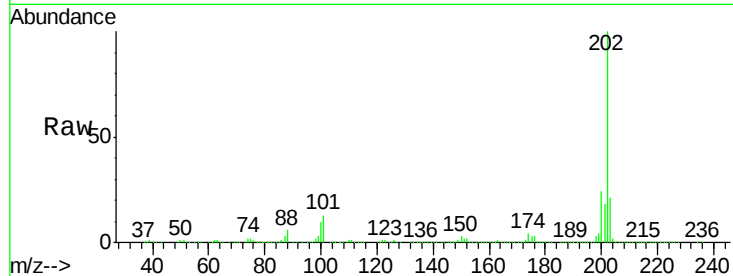
GW-04(3-5)

Tgt Ion:202 Resp: 4058874

Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	34.1
203	20.7	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

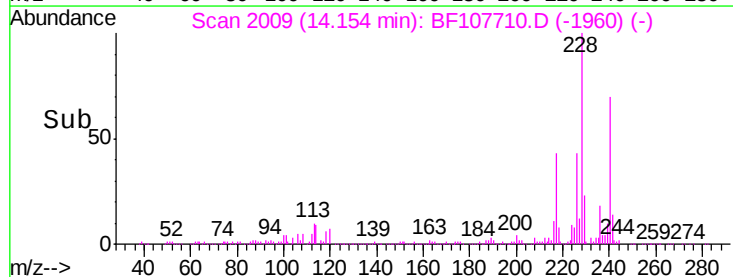
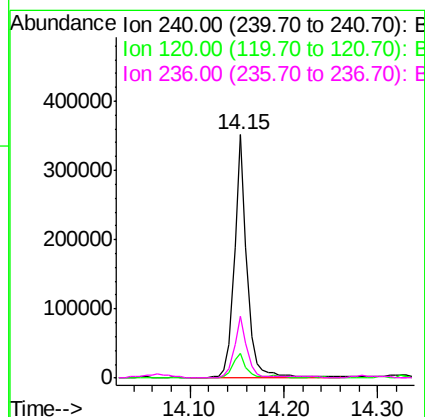
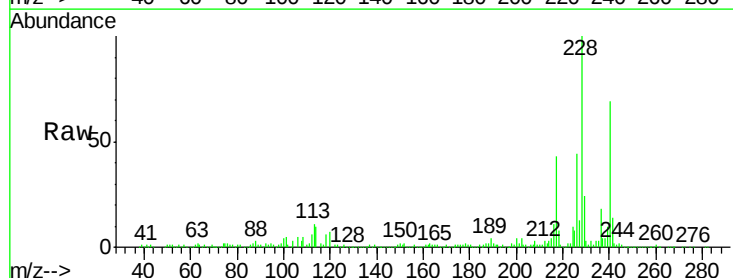
Delta R.T. -0.01 min

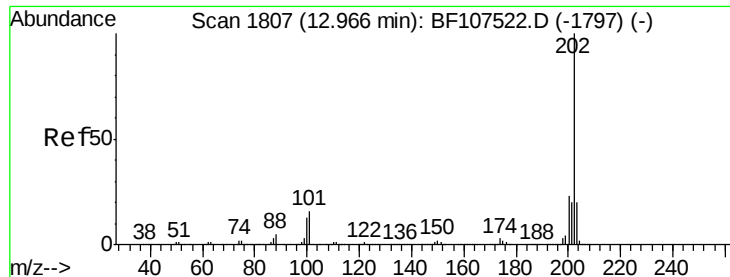
Lab File: BF107710.D

Acq: 26 Jul 2018 19:59

Tgt Ion:240 Resp: 321995

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.5	14.3
236	25.5	20.7	31.1





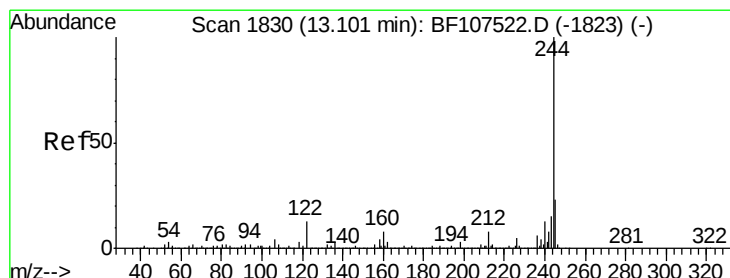
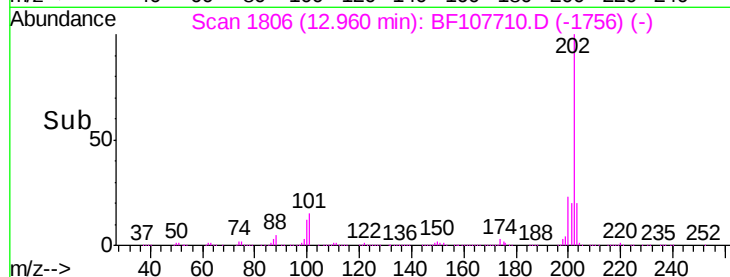
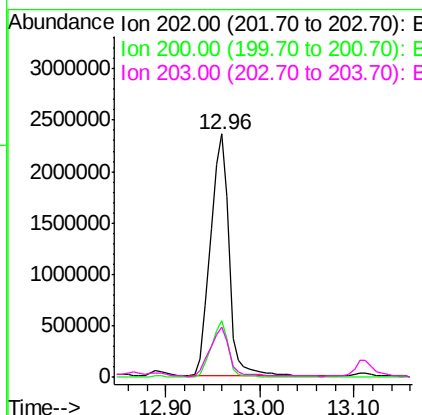
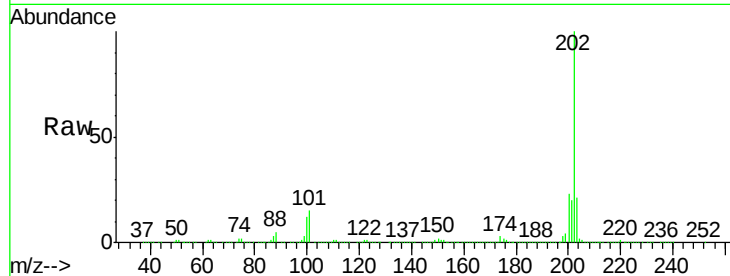
#77
 Pyrene
 Concen: 150.480 ng
 RT: 12.96 min Scan# 1806
 Delta R.T. -0.01 min
 Lab File: BF107710.D
 Acq: 26 Jul 2018 19:59

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)

Tgt Ion: 202 Resp: 3314284
 Ion Ratio Lower Upper
 202 100
 200 23.4 17.4 26.2
 203 20.7 14.3 21.5

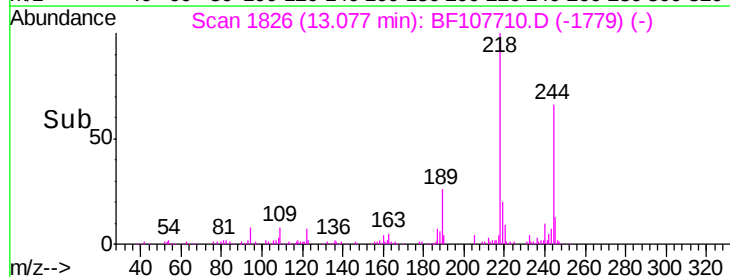
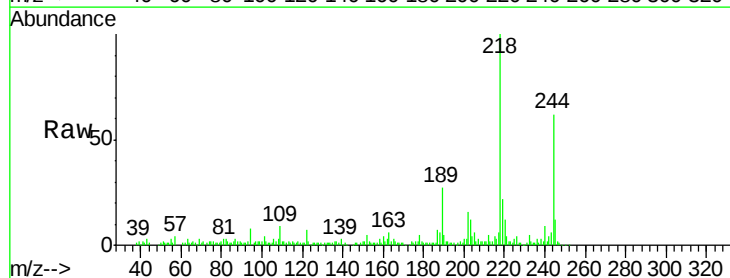
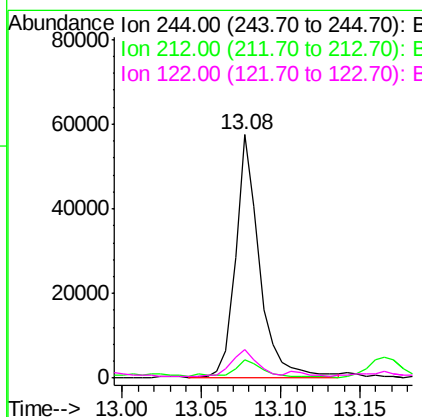
Manual Integrations
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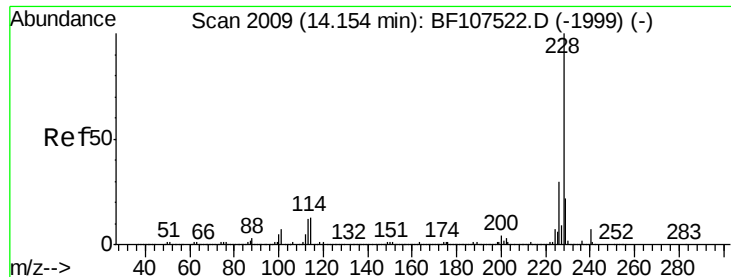
Sohil
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#78
 Terphenyl-d14
 Concen: 4.836 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.02 min
 Lab File: BF107710.D
 Acq: 26 Jul 2018 19:59

Tgt Ion: 244 Resp: 60826
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.4 8.0
 122 14.5 11.0 16.4





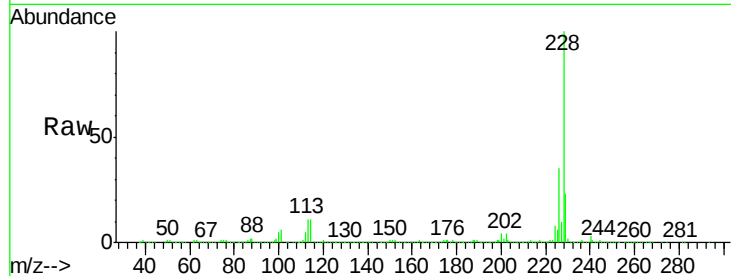
#80
Benzo(a)anthracene
Concen: 97.765 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

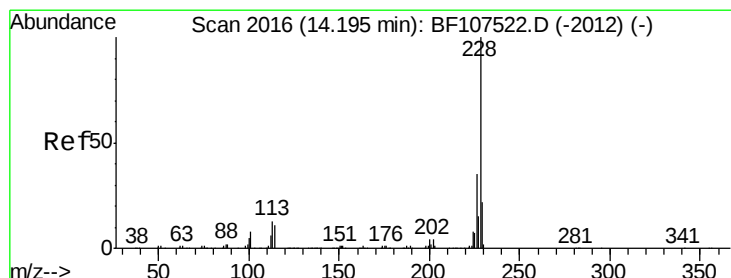
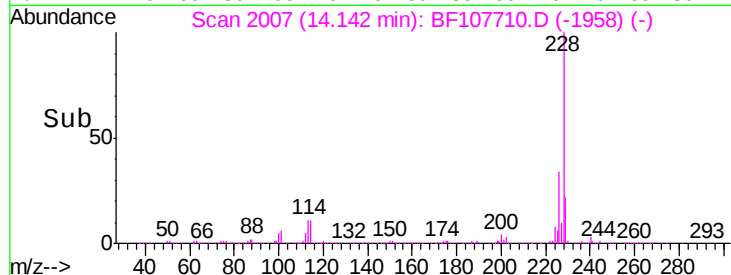
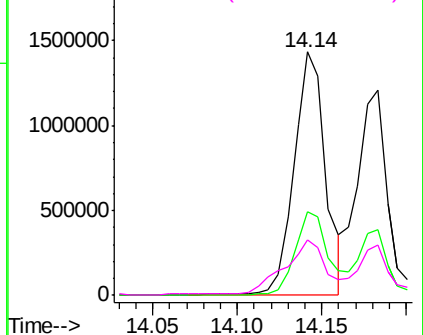
Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.5	22.6	33.8#
229	22.5	15.8	23.6

Manual Integrations
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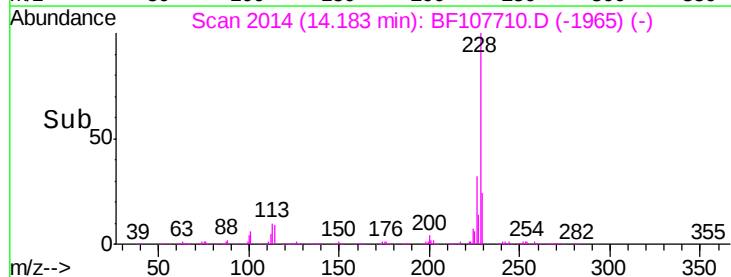
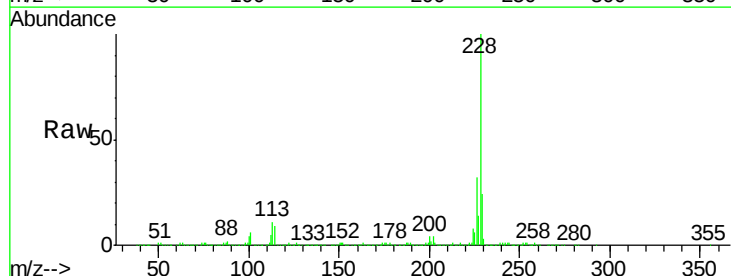
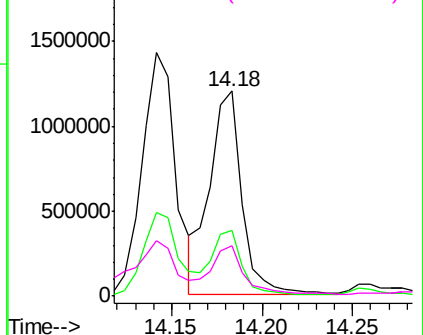
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

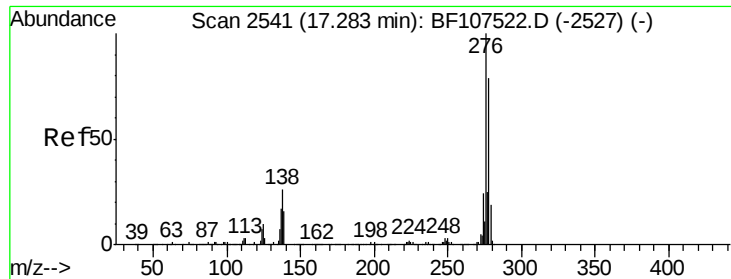


#82
Chrysene
Concen: 83.119 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.0	37.6
229	24.3	16.2	24.4

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





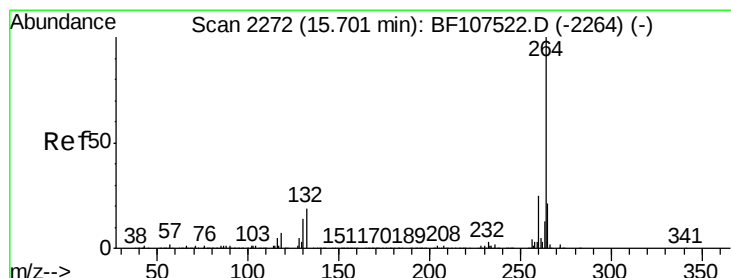
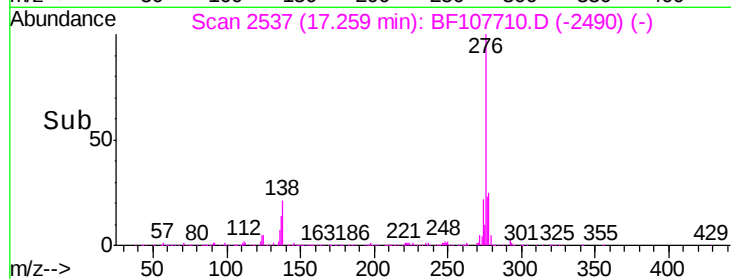
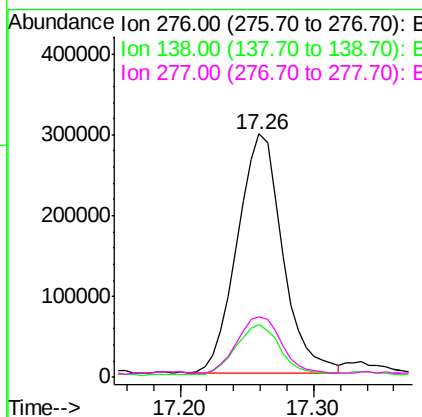
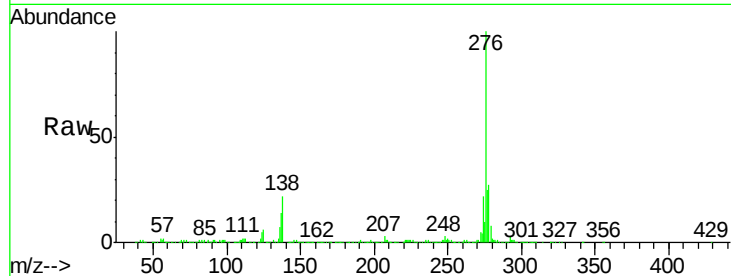
#85
Indeno(1,2,3-cd)pyrene
Concen: 45.377 ng
RT: 17.26 min Scan# 2537
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	697094		
138	20.4	25.0	37.6#	
277	23.1	20.1	30.1	

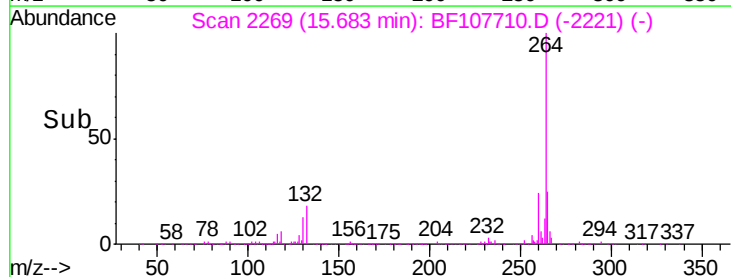
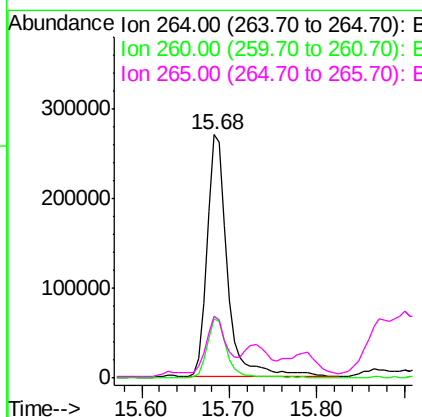
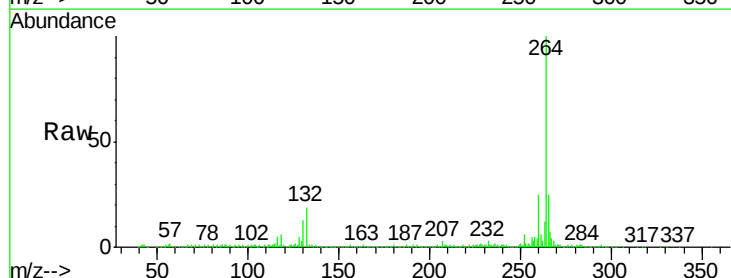
Manual Integrations
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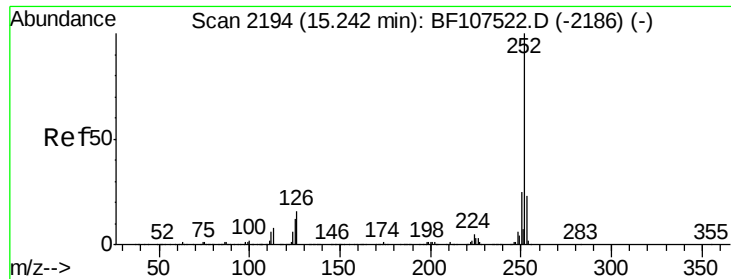
Sohil
7/27/2018 2:53:55 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	435997		
260	24.6	19.2	28.8	
265	25.5	17.5	26.3	





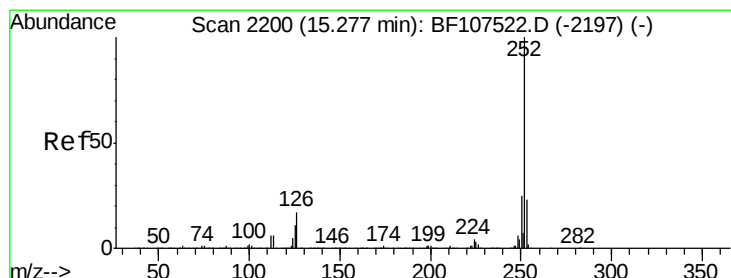
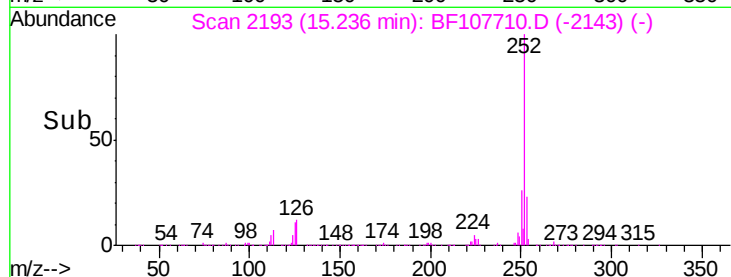
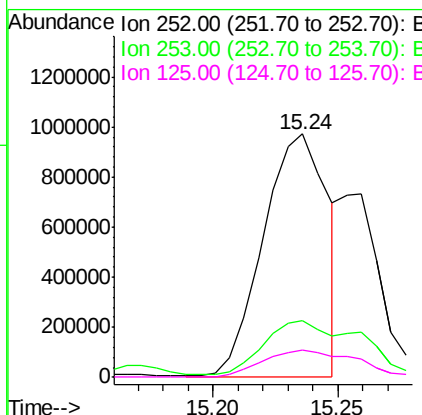
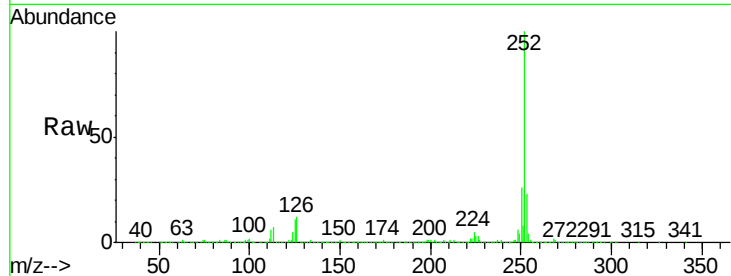
#87
Benzo(b)fluoranthene
Concen: 73.591 ng m
RT: 15.24 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion:252 Resp: 1755997
Ion Ratio Lower Upper
252 100
253 23.2 17.0 25.6
125 11.0 9.0 13.6

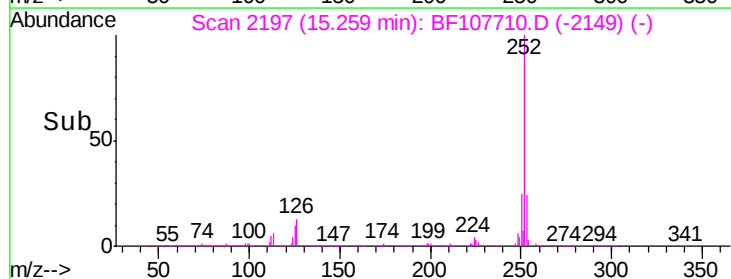
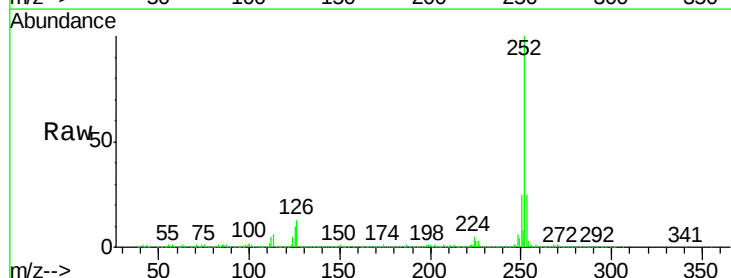
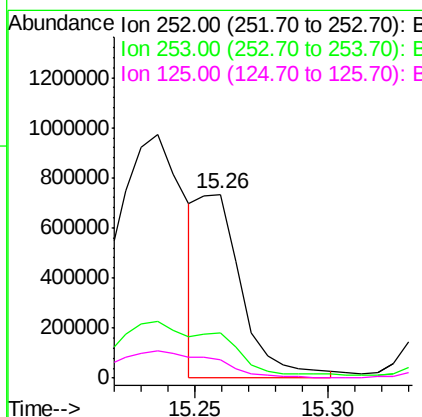
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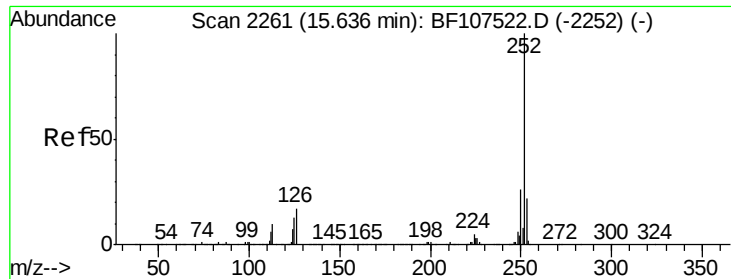
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#88
Benzo(k)fluoranthene
Concen: 35.411 ng m
RT: 15.26 min Scan# 2197
Delta R.T. -0.02 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion:252 Resp: 827827
Ion Ratio Lower Upper
252 100
253 24.6 17.9 26.9
125 10.1 10.2 15.2#





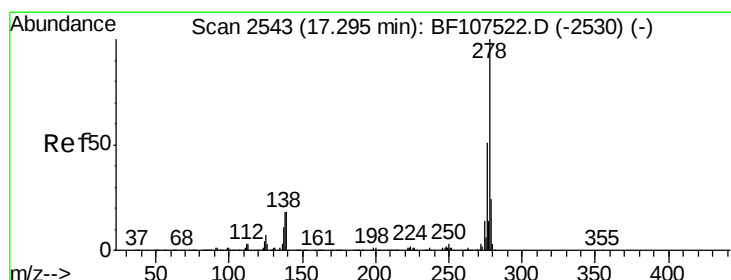
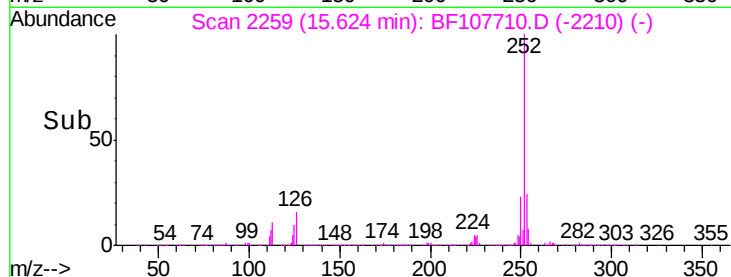
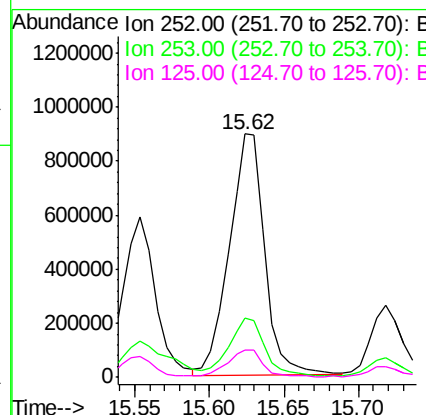
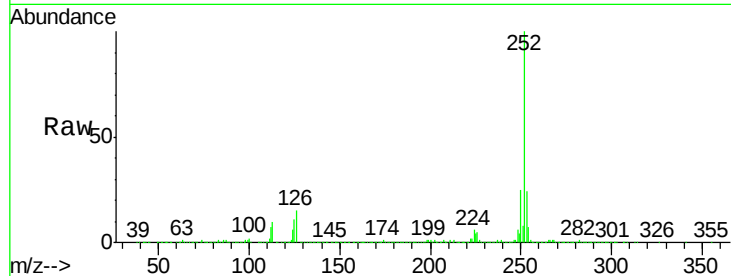
#89
Benzo(a)pyrene
Concen: 67.810 ng
RT: 15.62 min Scan# 2259
Delta R.T. -0.01 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Instrument :
BNA_F
ClientSampleId :
GW-04(3-5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.1	25.7
125	11.4	9.8	14.6

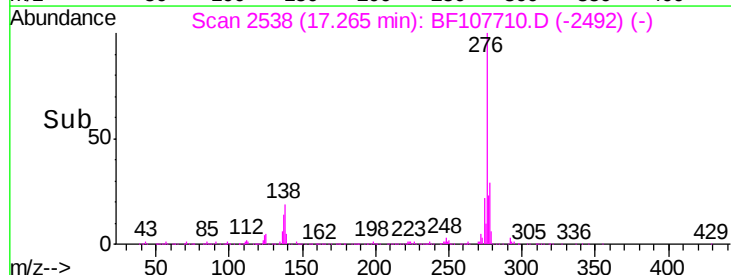
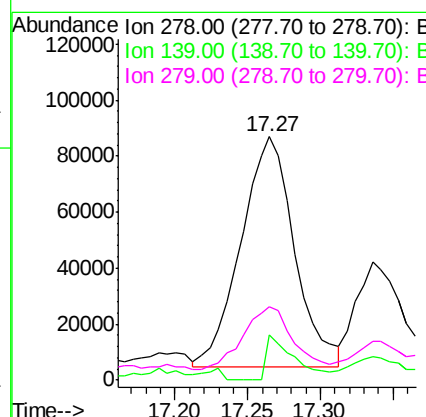
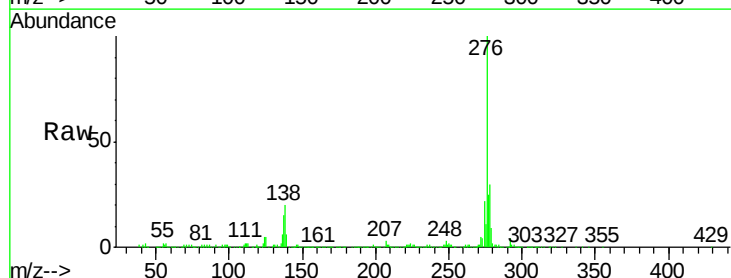
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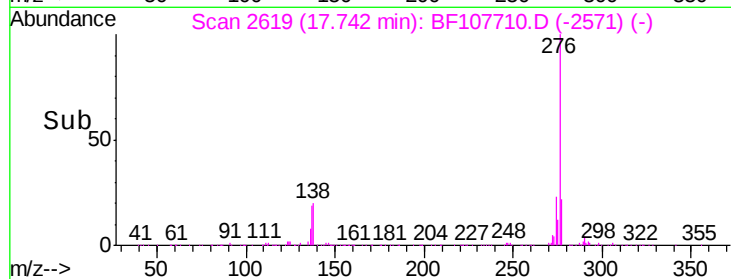
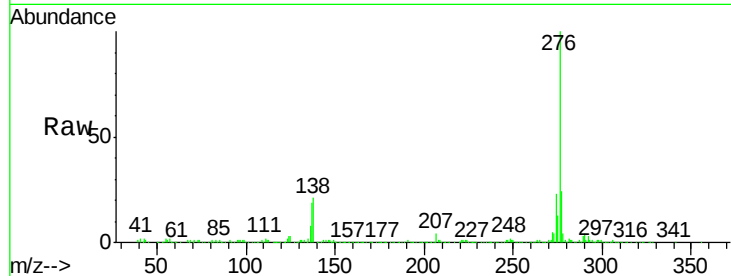
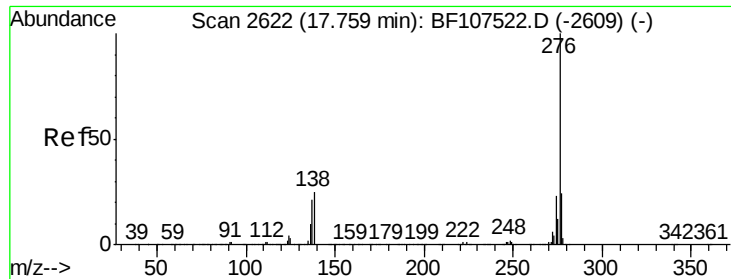
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#90
Dibenzo(a,h)anthracene
Concen: 11.078 ng m
RT: 17.27 min Scan# 2538
Delta R.T. -0.03 min
Lab File: BF107710.D
Acq: 26 Jul 2018 19:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.5	15.9	23.9
279	30.4	19.0	28.4





#91
 Benzo(g,h,i)perylene
 Concen: 30.414 ng
 RT: 17.74 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: BF107710.D
 Acq: 26 Jul 2018 19:59

Instrument :
 BNA_F
 ClientSampleId :
 GW-04(3-5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.0	17.9	26.9
138	21.3	21.8	32.8

Manual Integrations
 APPROVED

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