

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082218\
 Data File : BF108392.D
 Acq On : 22 Aug 2018 19:22
 Operator : JU/SJ
 Sample : J4559-09
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Manual Integrations
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Quant Time: Aug 23 05:05:53 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 22 11:01:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	145114	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	547510	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	260087	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	434982	20.00	ng	0.00
75) Chrysene-d12	14.20	240	251321	20.00	ng	0.00
86) Perylene-d12	15.77	264	284347	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	787996	98.31	ng	0.00
7) Phenol-d6	6.62	99	1082803	101.66	ng	0.00
23) Nitrobenzene-d5	7.57	82	711952	72.56	ng	0.00
41) 2,4,6-Tribromophenol	10.84	330	275019	106.01	ng	0.00
44) 2-Fluorobiphenyl	9.36	172	1076017	66.42	ng	0.00
78) Terphenyl-d14	13.13	244	687811	69.58	ng	0.00
Target Compounds						
49) Dimethylphthalate	9.75	163	370613	20.456	ng	Qvalue # 99
51) Acenaphthene	10.08	154	44166	3.009	ng	96
57) Fluorene	10.60	166	43845	2.605	ng	97
70) Phenanthrene	11.57	178	460528	22.447	ng	100
71) Anthracene	11.62	178	109518	5.208	ng	97
72) Carbazole	11.77	167	51804	2.773	ng	# 92
74) Fluoranthene	12.77	202	649264	28.996	ng	96
77) Pyrene	13.00	202	568964	35.759	ng	99
80) Benzo(a)anthracene	14.19	228	269055	18.654	ng	96
82) Chrysene	14.22	228	248444	18.789	ng	97
83) Bis(2-ethylhexyl)phthalate	14.15	149	24610	2.876	ng	# 79
85) Indeno(1,2,3-cd)pyrene	17.38	276	191888	16.748	ng	# 86
87) Benzo(b)fluoranthene	15.29	252	374207m	22.024	ng	
88) Benzo(k)fluoranthene	15.32	252	142579m	9.129	ng	
89) Benzo(a)pyrene	15.70	252	275705	18.121	ng	# 95
90) Dibenzo(a,h)anthracene	17.38	278	45802	3.638	ng	# 62
91) Benzo(a,h,i)perylene	17.88	276	182909	14.755	ng	# 89

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



#1

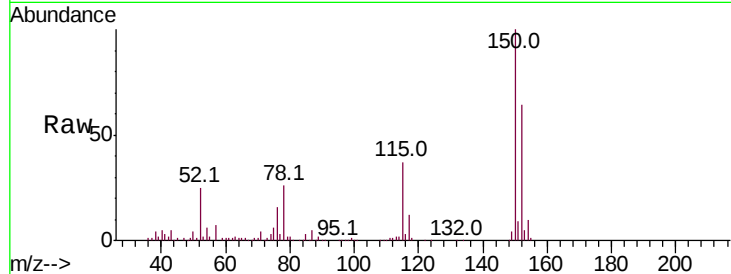
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Instrument :
BNA_F
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.6	186.8
115	57.7	50.1	75.1

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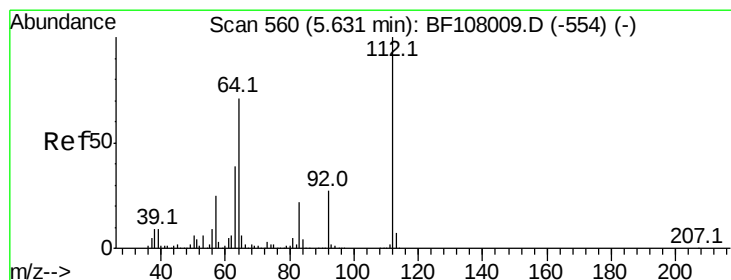
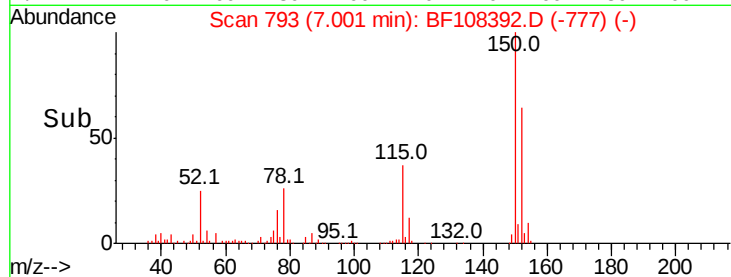
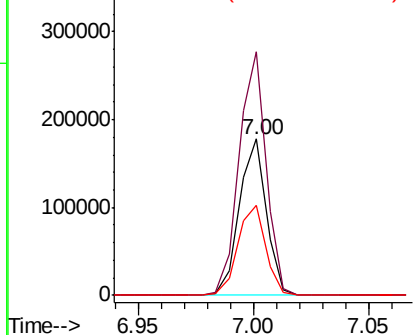


Abundance

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: 98.311 ng
RT: 5.63 min Scan# 560
Delta R.T. -0.00 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

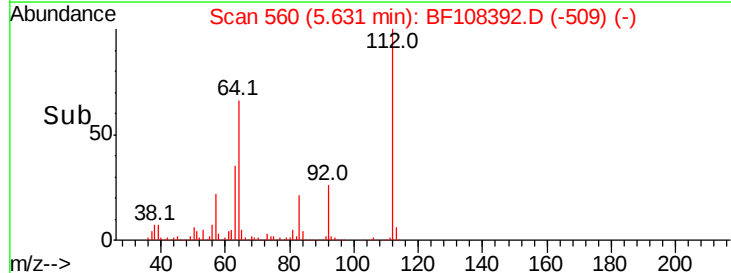
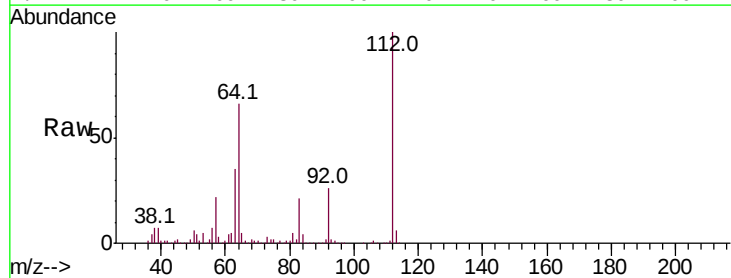
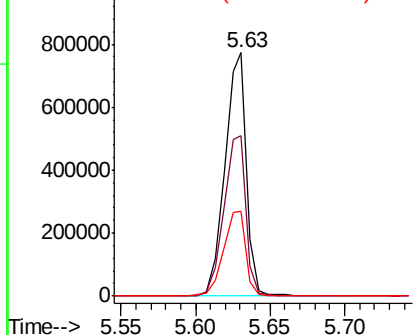
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.8	47.9	71.9
63	35.0	23.7	35.5

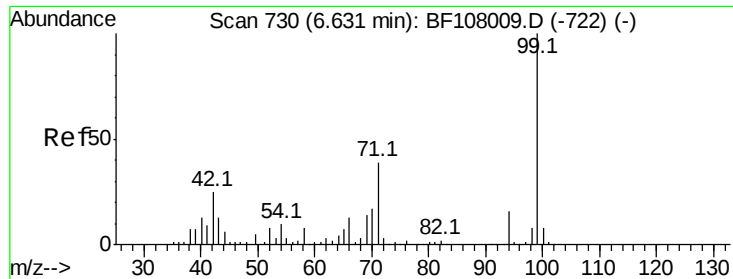
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 101.659 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

Instrument :

BNA_F

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 99 Resp: 1082803

Ion Ratio Lower Upper

99 100

42 22.8 14.5 21.7#

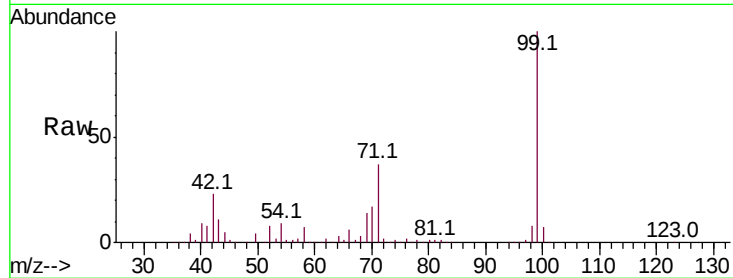
71 37.4 25.4 38.0

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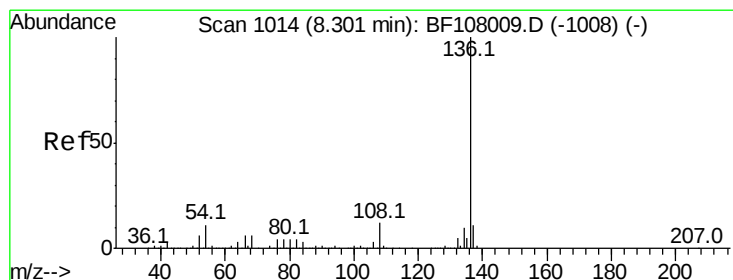
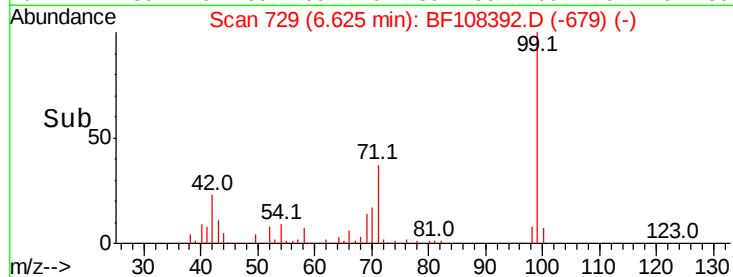
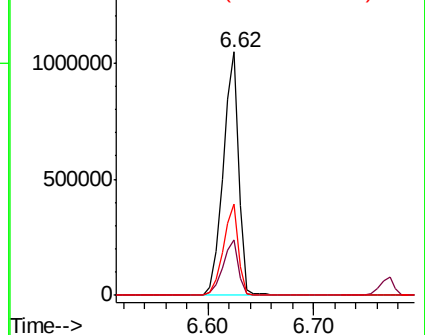
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

Tgt Ion: 136 Resp: 547510

Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.4 6.6 9.8

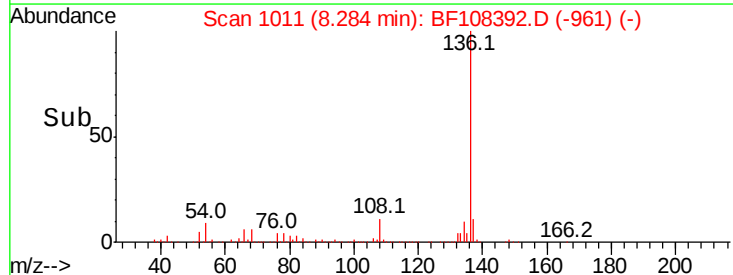
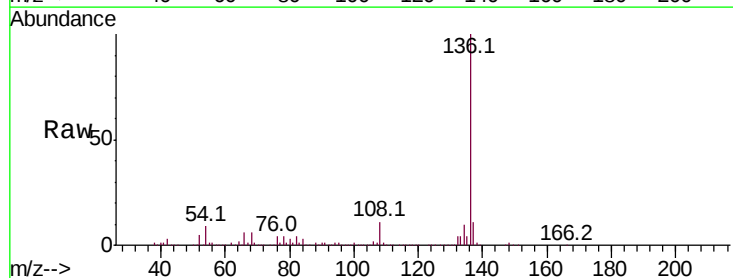
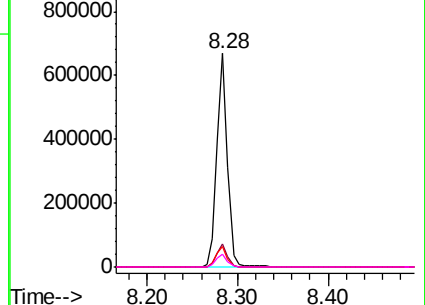
68 6.0 5.0 7.4

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





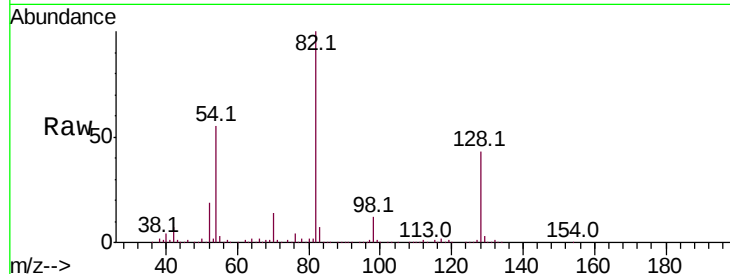
#23
 Nitrobenzene-d5
 Concen: 72.561 ng
 RT: 7.57 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

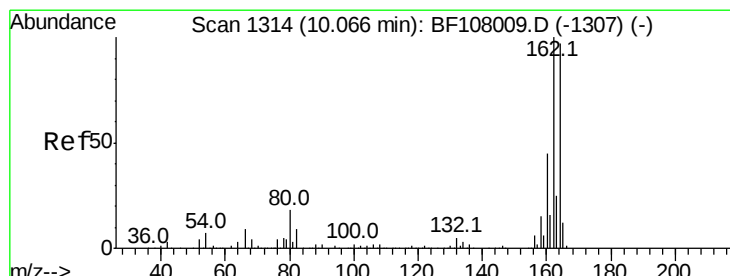
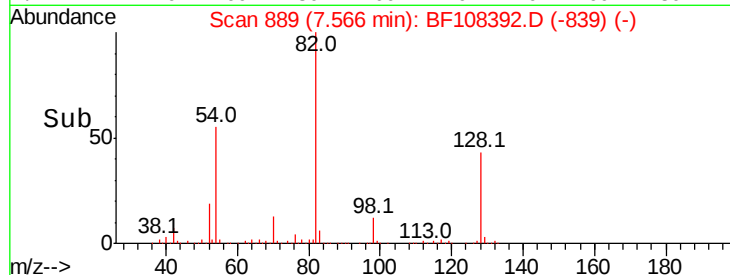
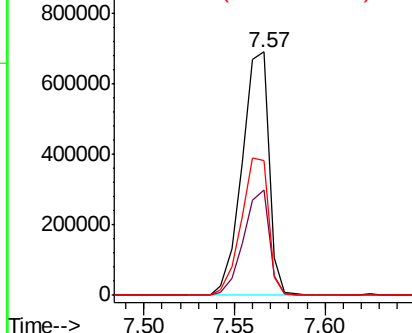
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.4	36.1	54.1	
54	55.4	41.4	62.2	

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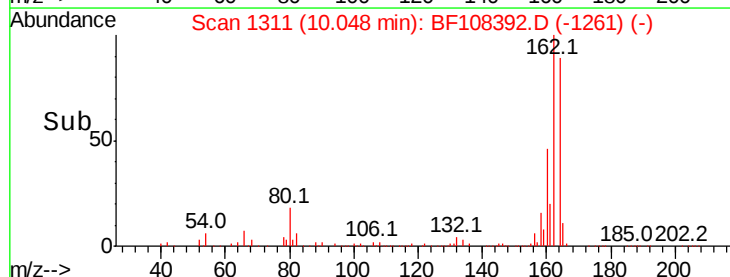
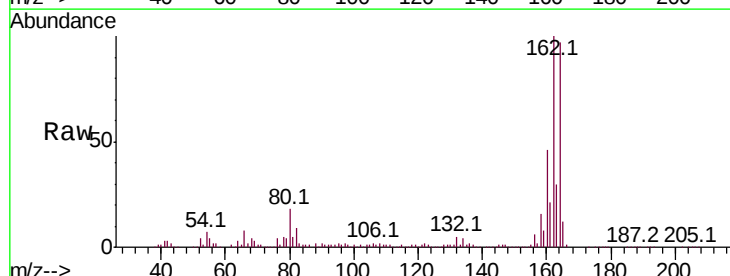
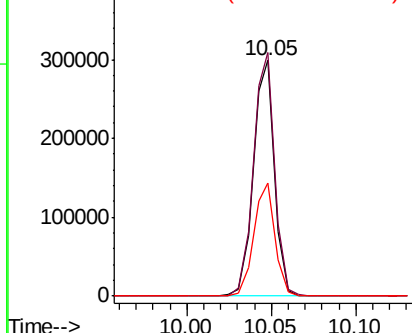
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

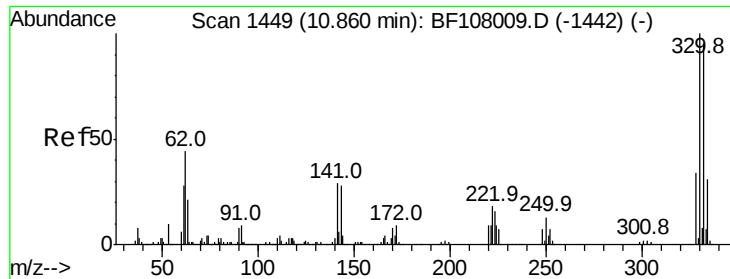


#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.2	86.1	129.1	
160	47.9	38.3	57.5	

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





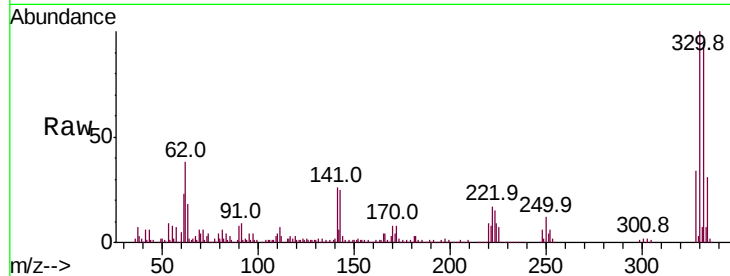
#41
 2,4,6-Tribromophenol
 Concen: 106.009 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Resp	Lower	Upper
330	100	275019		
332	95.1	77.0	115.6	
141	32.5	29.9	44.9	

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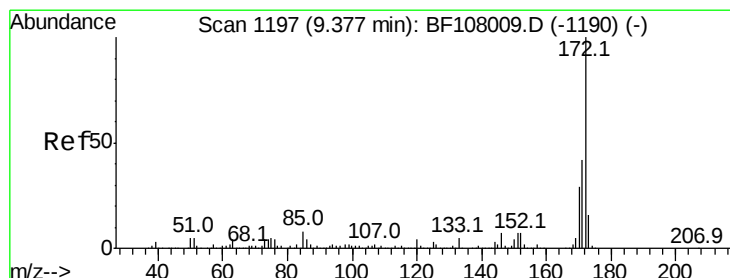
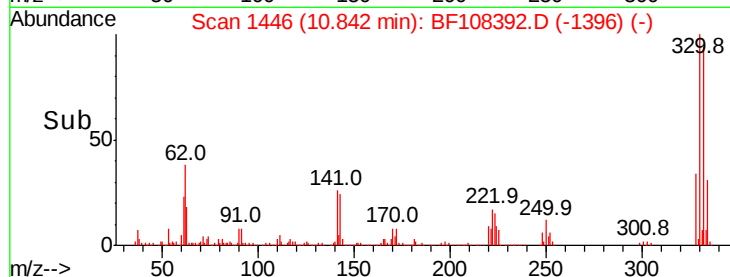
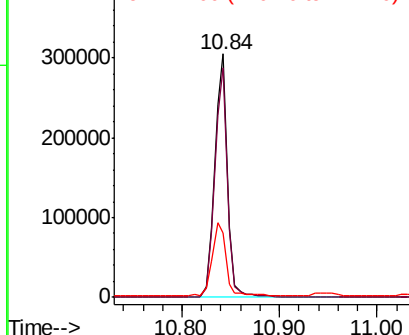


Abundance

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: 66.421 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

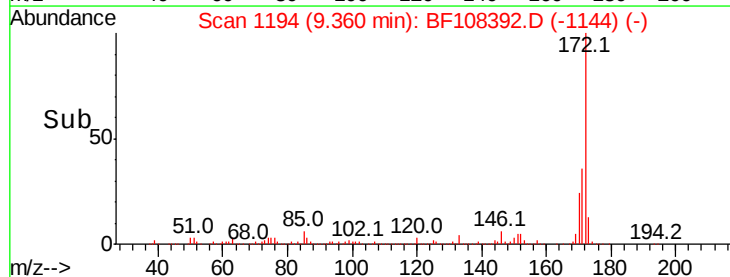
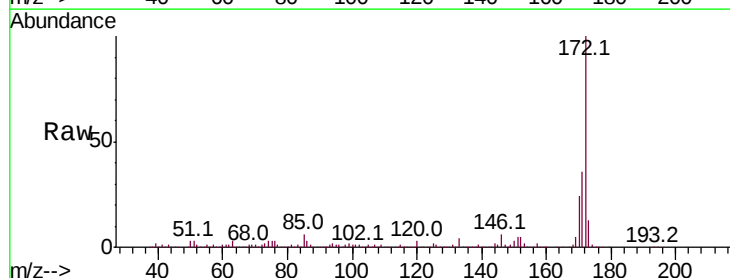
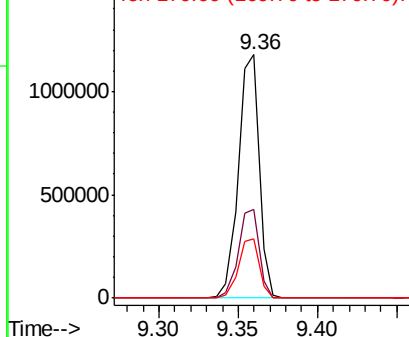
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1076017		
171	36.2	29.7	44.5	
170	24.2	19.6	29.4	

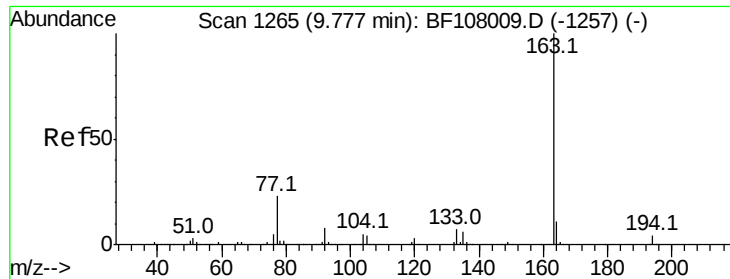
Abundance

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





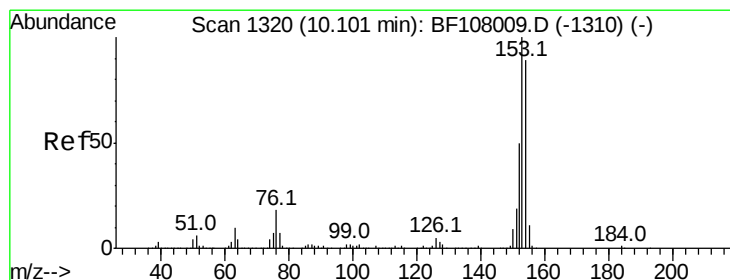
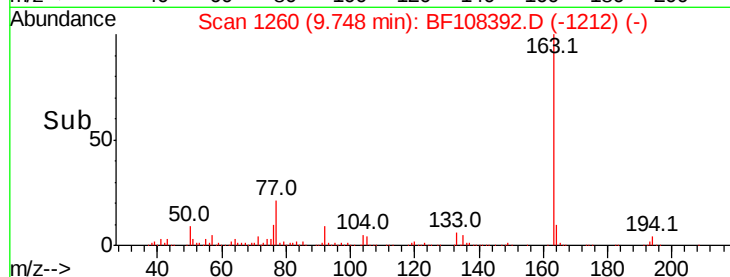
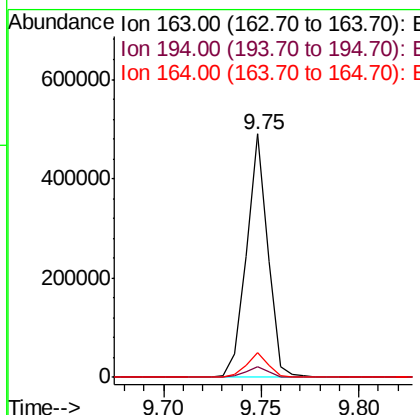
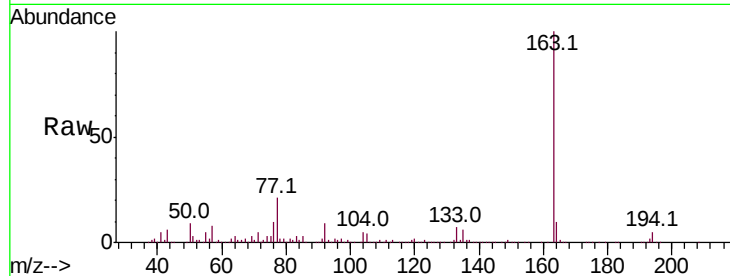
#49
 Dimethylphthalate
 Concen: 20.456 ng
 RT: 9.75 min Scan# 1260
 Delta R.T. -0.02 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.5	2.7	4.1#	
164	10.2	8.2	12.2	

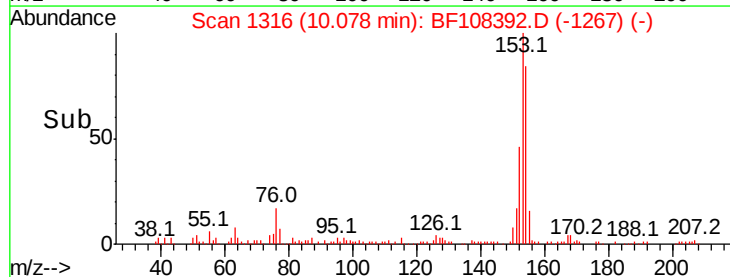
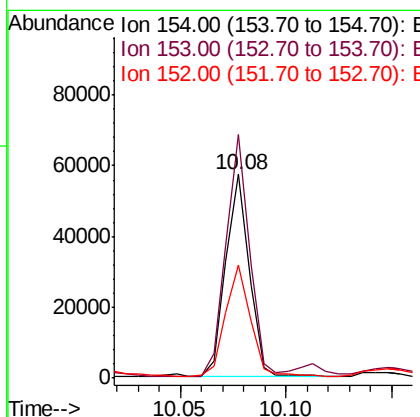
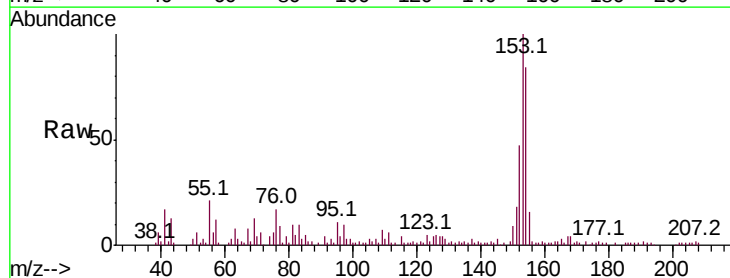
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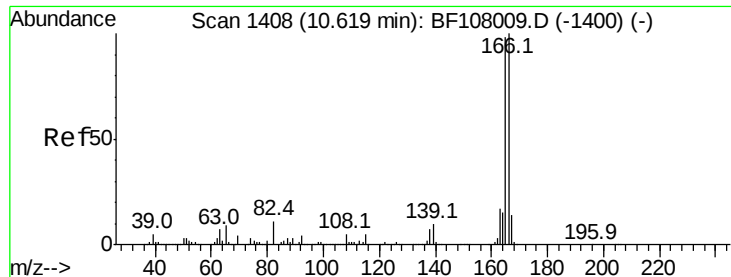
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#51
 Acenaphthene
 Concen: 3.009 ng
 RT: 10.08 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	119.6	91.2	136.8	
152	55.8	43.8	65.8	





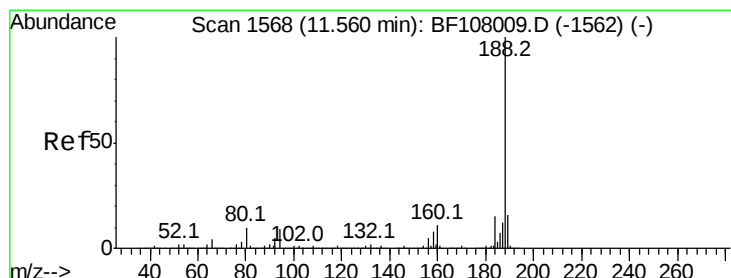
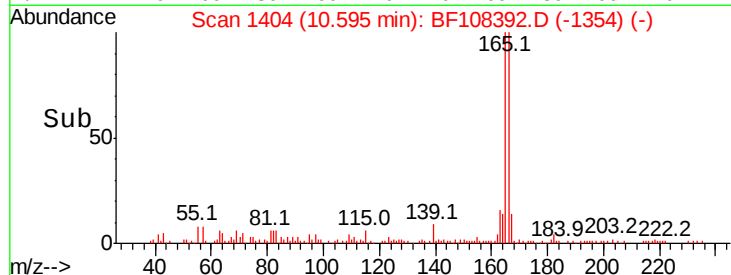
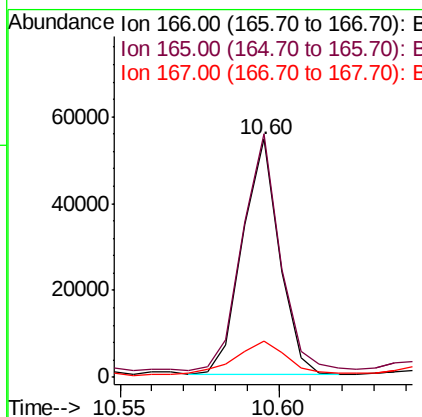
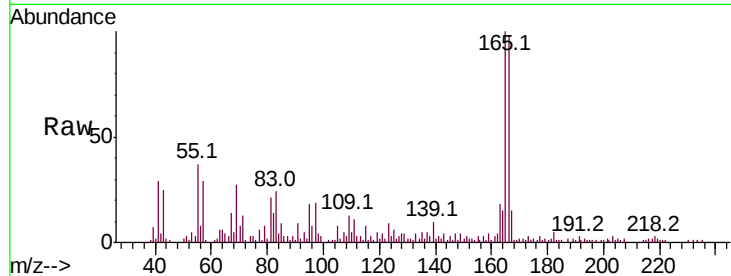
#57
Fluorene
 Concen: 2.605 ng
 RT: 10.60 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.2	79.8	119.8
167	15.3	10.6	16.0

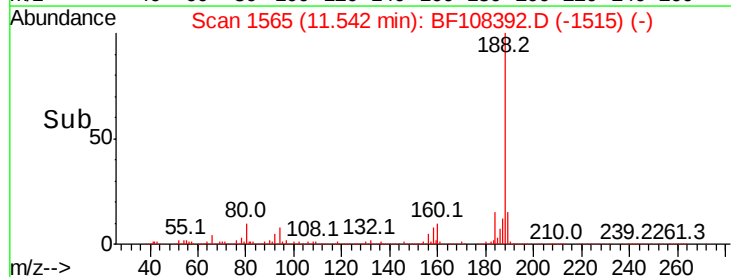
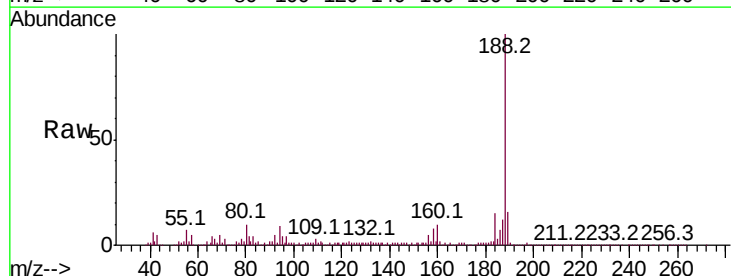
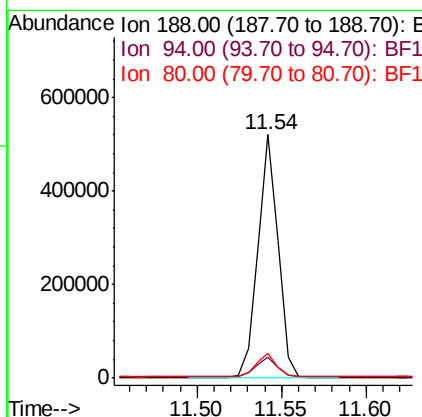
Manual Integrations
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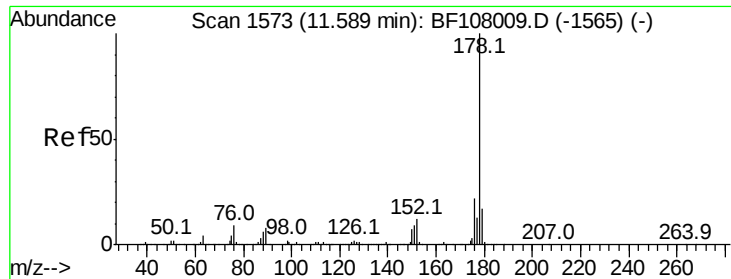
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.8	8.5	12.7
80	10.2	9.2	13.8





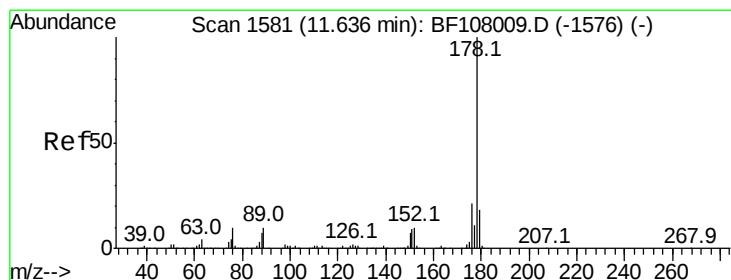
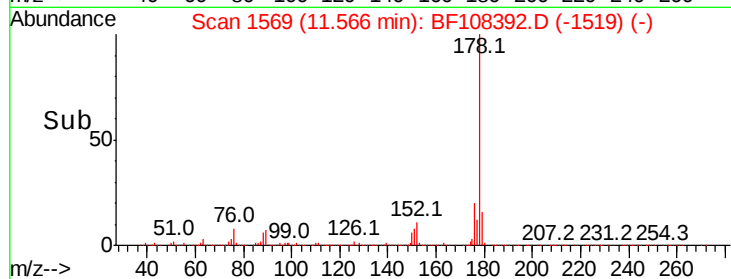
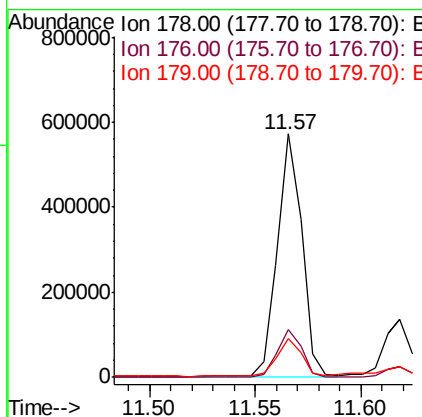
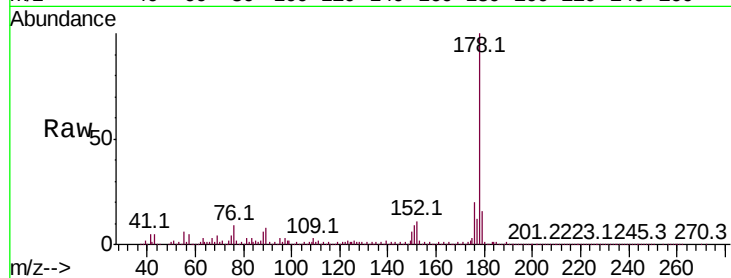
#70
Phenanthrene
Concen: 22.447 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Instrument :
BNA_F
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	16.1	13.0	19.6

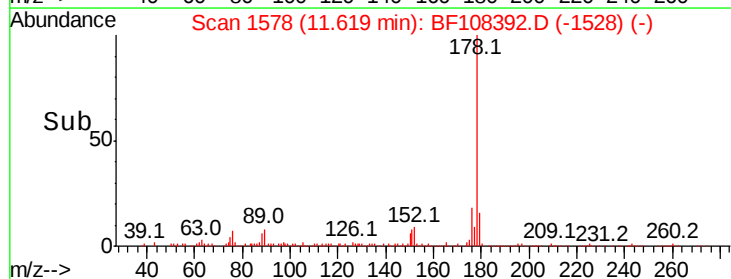
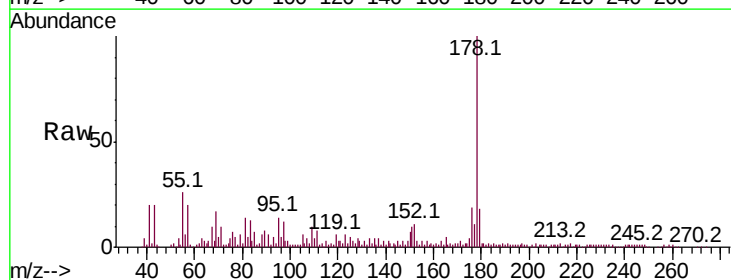
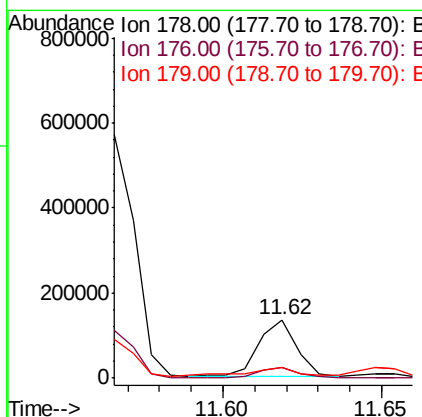
Manual Integrations
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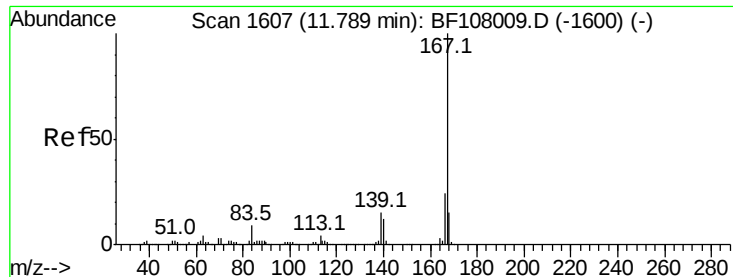
Sohil
8/23/2018 3:43:18 PM



#71
Anthracene
Concen: 5.208 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	17.9	12.6	19.0





#72

Carbazole

Concen: 2.773 ng

RT: 11.77 min Scan# 1604

Delta R.T. -0.01 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

Instrument :

BNA_F

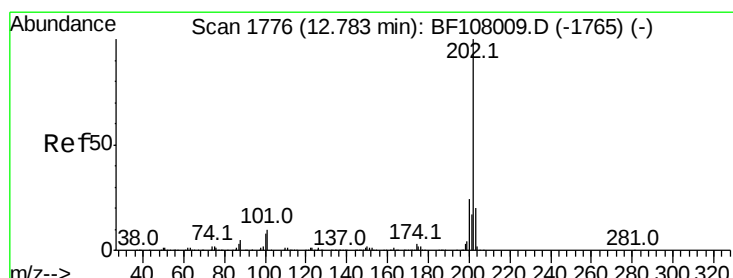
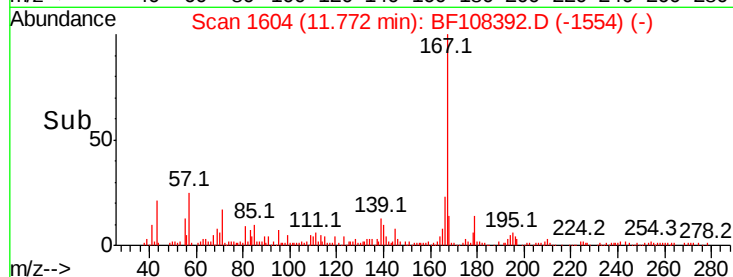
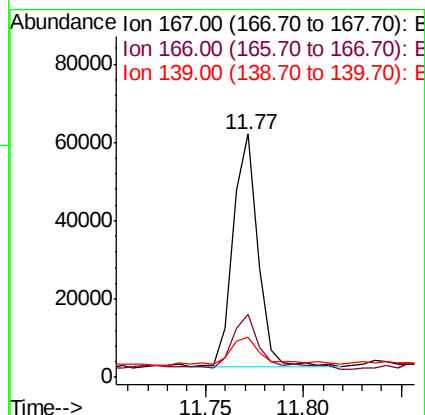
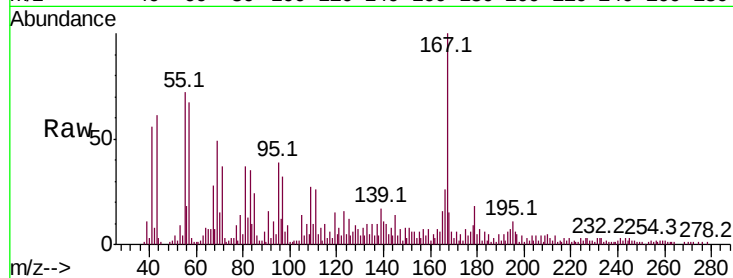
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	167	Resp:	51804
Ion Ratio	Lower	Upper	
167	100		
166	25.7	17.6	26.4
139	16.6	10.9	16.3

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#74

Fluoranthene

Concen: 28.996 ng

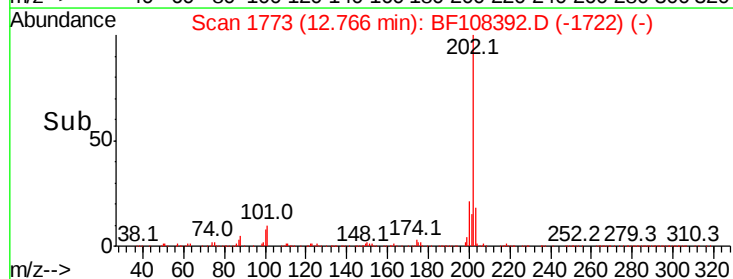
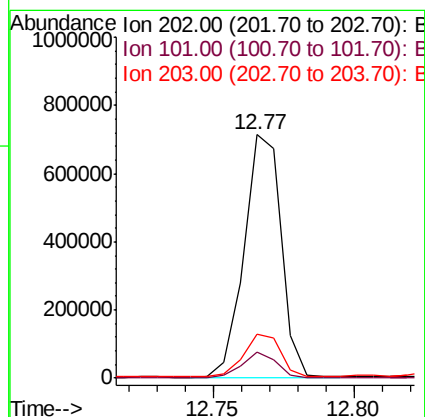
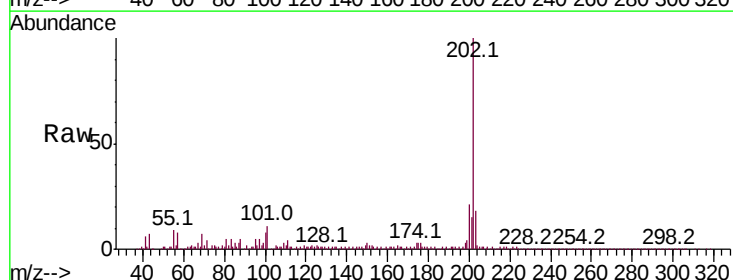
RT: 12.77 min Scan# 1773

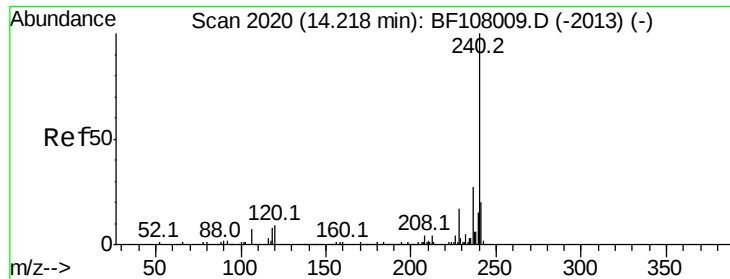
Delta R.T. -0.00 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

Tgt Ion:	202	Resp:	649264
Ion Ratio	Lower	Upper	
202	100		
101	10.6	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

Instrument :

BNA_F

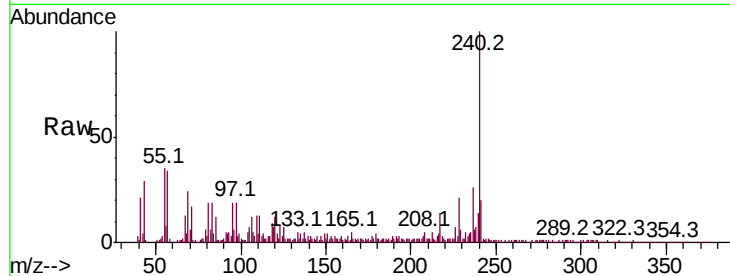
ClientSampleId :

RA-081718-WSW-20-053

Tot Ion:	240	Resp:	251321
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	26.1	20.7	31.1

Manual Integrations
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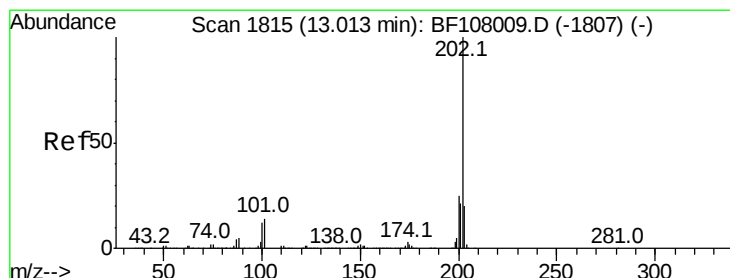
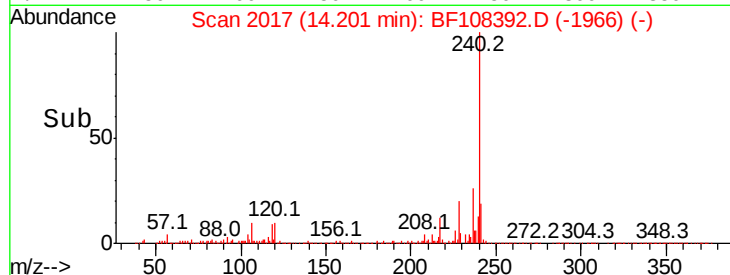
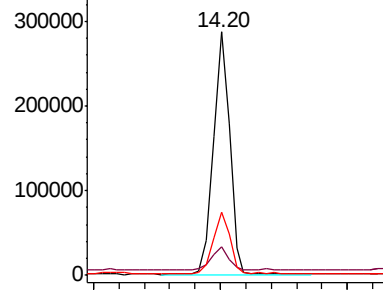


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 35.759 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.00 min

Lab File: BF108392.D

Acq: 22 Aug 2018 19:22

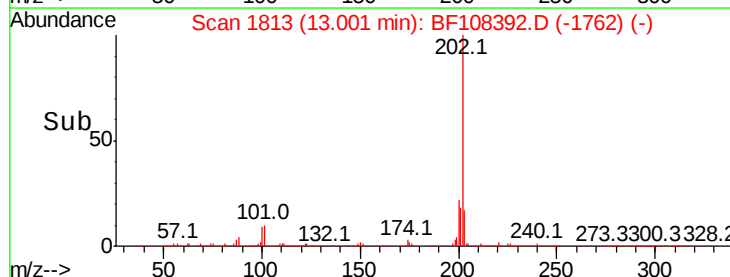
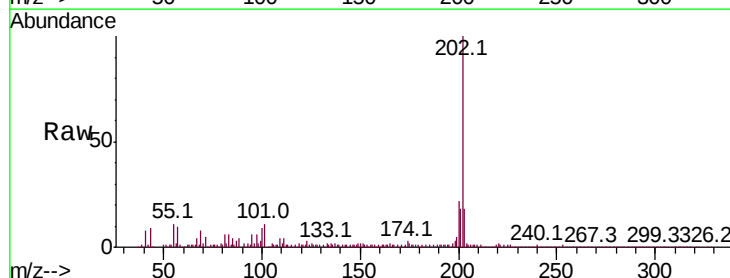
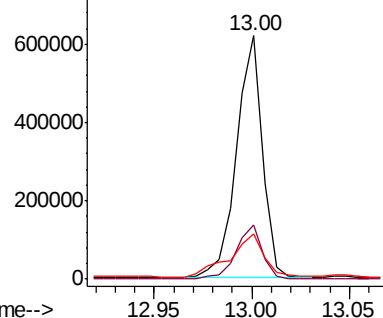
Tgt Ion:	202	Resp:	568964
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.4	26.2
203	18.5	14.3	21.5

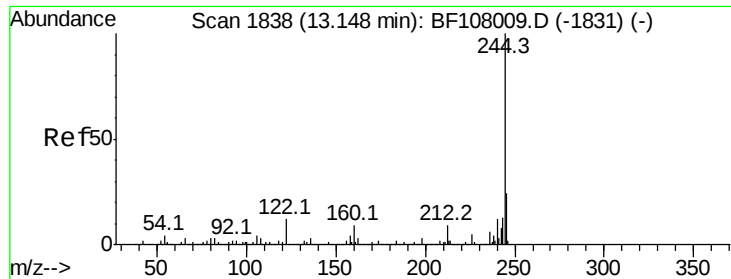
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





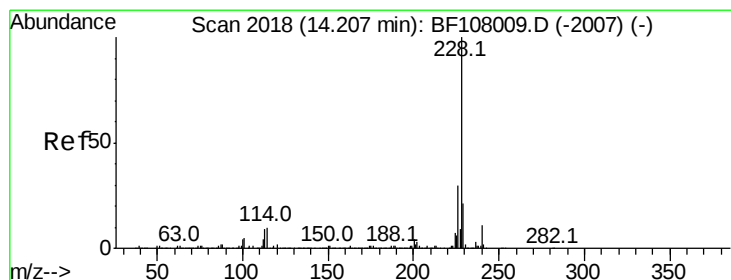
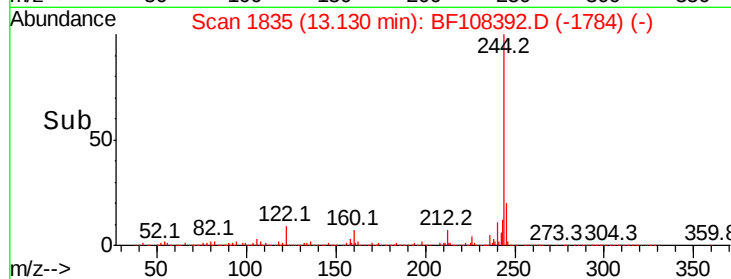
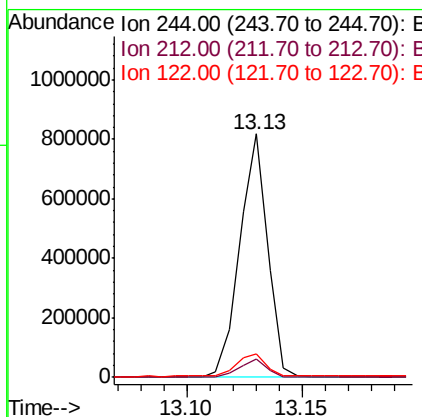
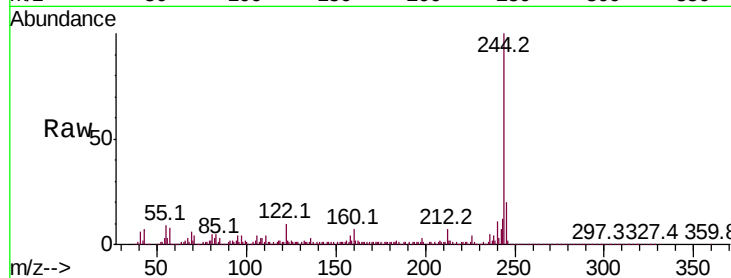
#78
 Terphenyl-d14
 Concen: 69.585 ng
 RT: 13.13 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.4	8.0
122	9.5	11.0	16.4

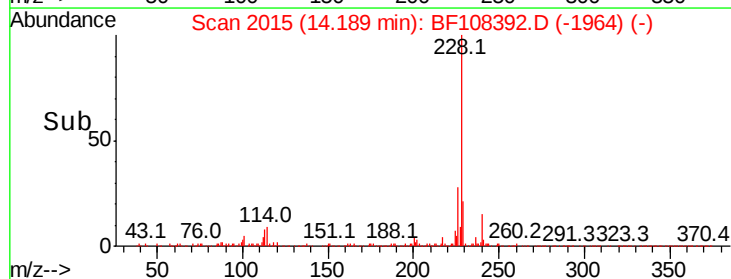
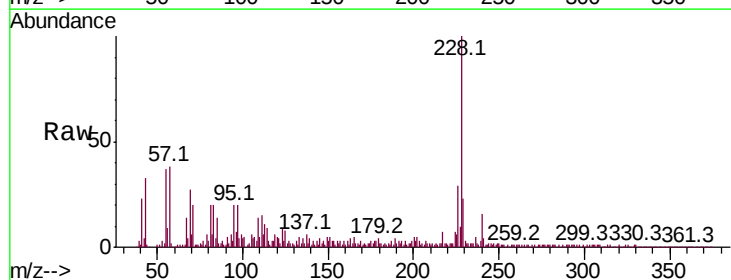
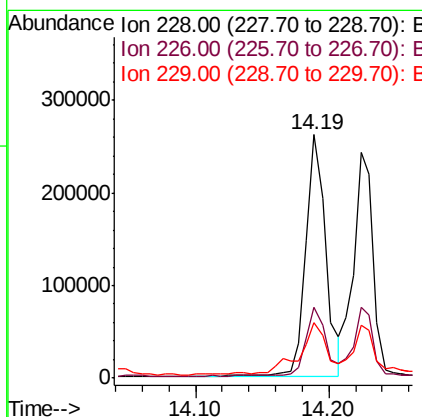
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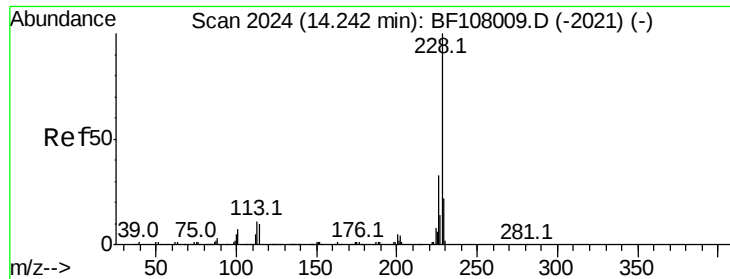
Sohil
 8/23/2018 3:43:18 PM



#80
 Benzo(a)anthracene
 Concen: 18.654 ng
 RT: 14.19 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	22.9	15.8	23.6





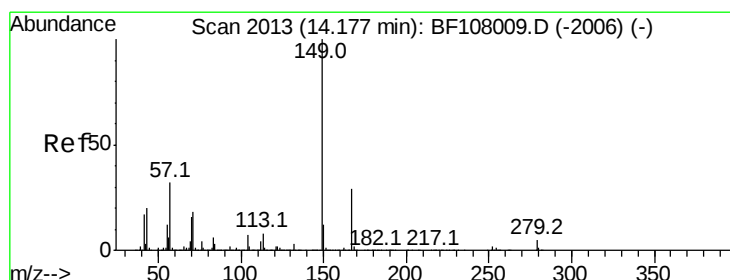
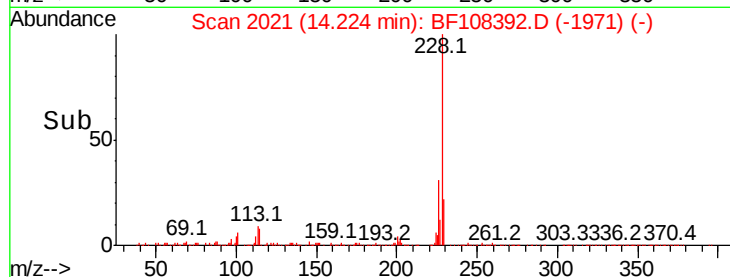
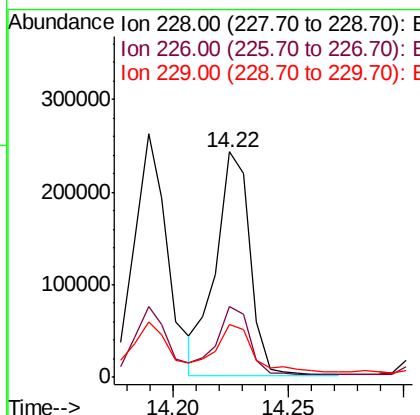
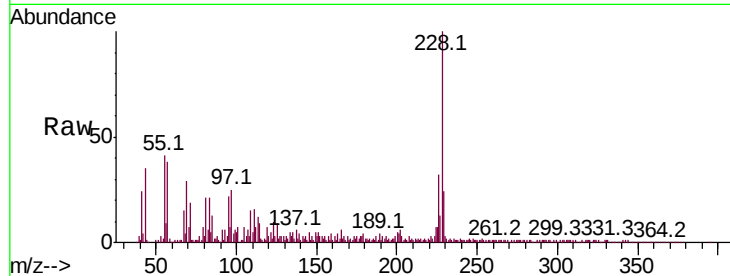
#82
 Chrvsene
 Concen: 18.789 ng
 RT: 14.22 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion:	228	Resp:	248444
Ion Ratio	Lower	Upper	
228	100		
226	31.7	25.0	37.6
229	23.7	16.2	24.4

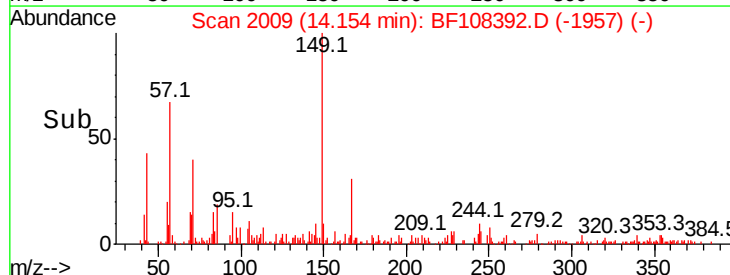
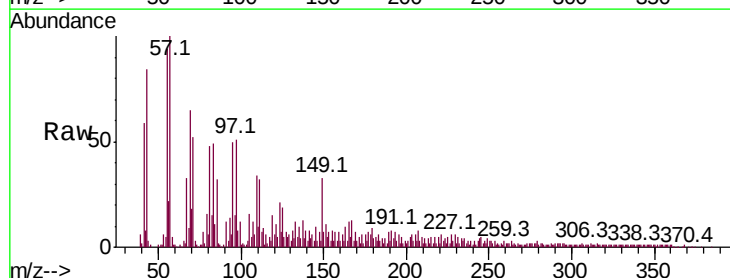
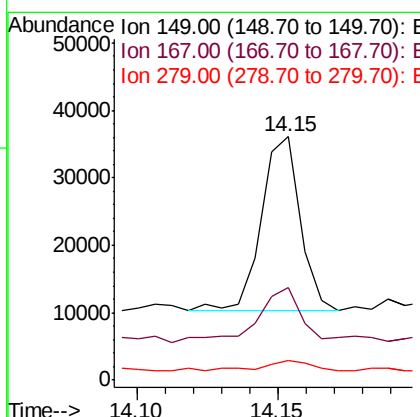
Manual Integrations
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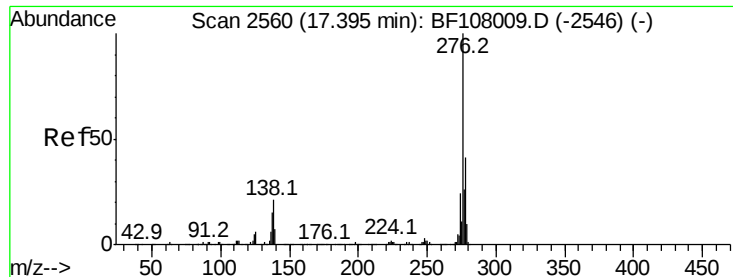
Sohil
 8/23/2018 3:43:18 PM



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.876 ng
 RT: 14.15 min Scan# 2009
 Delta R.T. 0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Tgt Ion:	149	Resp:	24610
Ion Ratio	Lower	Upper	
149	100		
167	38.0	21.3	31.9#
279	8.0	3.0	4.4#





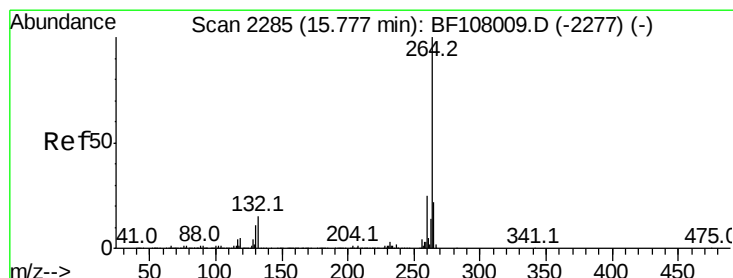
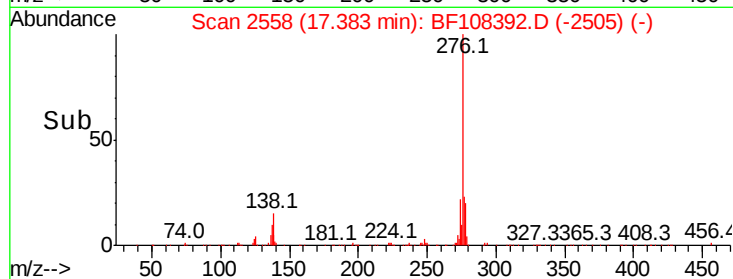
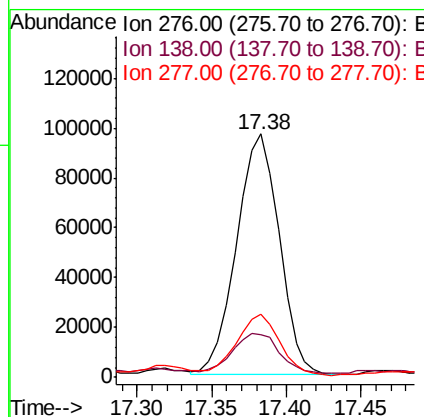
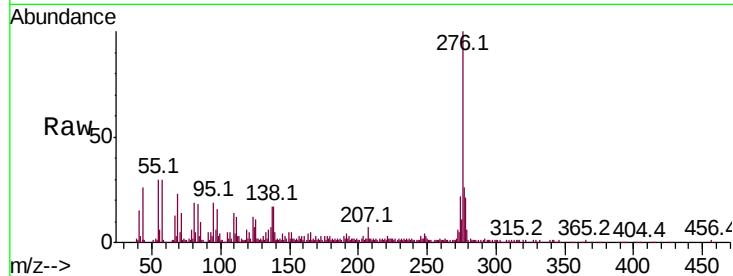
#85
Indeno(1,2,3-cd)pyrene
Concen: 16.748 ng
RT: 17.38 min Scan# 2558
Delta R.T. 0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Instrument :
BNA_F
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.8	25.0	37.6#
277	25.6	20.1	30.1

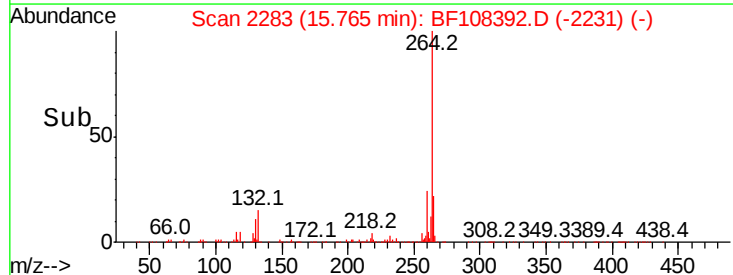
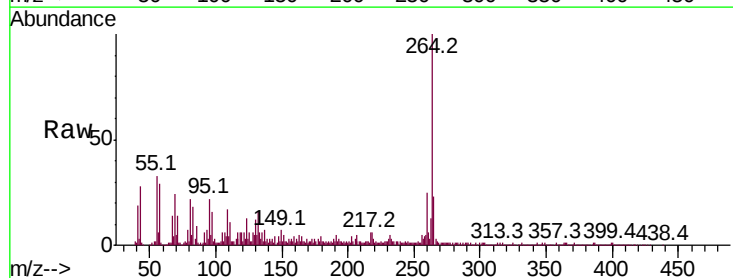
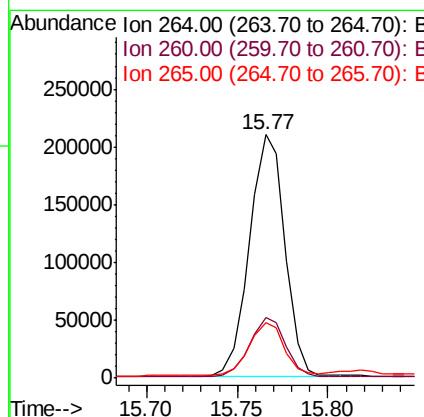
Manual Integrations
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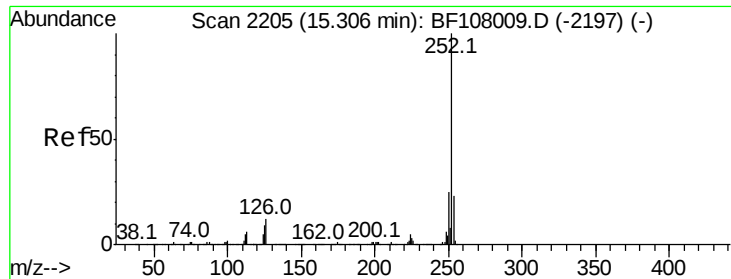
Sohil
8/23/2018 3:43:18 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.77 min Scan# 2283
Delta R.T. 0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	22.6	17.5	26.3





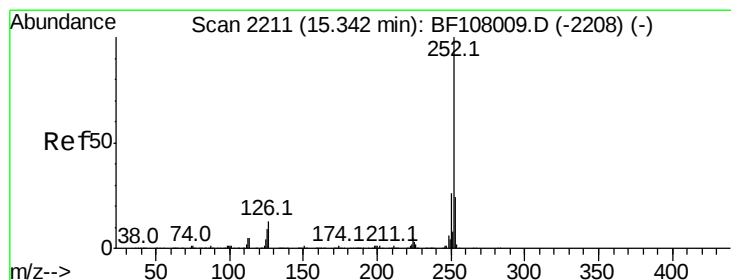
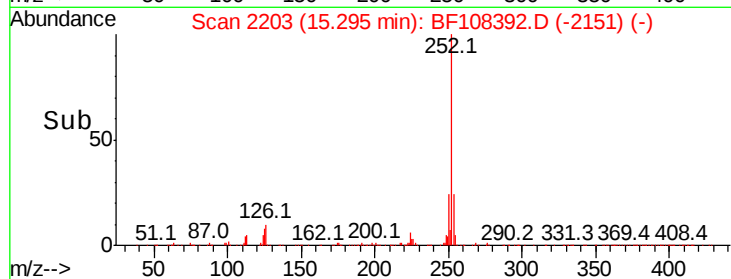
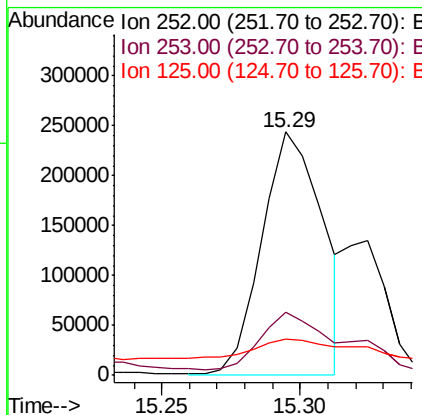
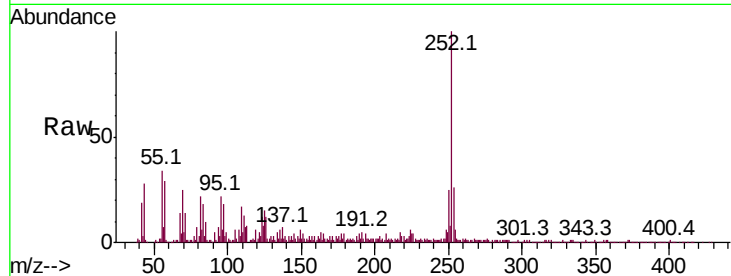
#87
Benzo(b)fluoranthene
Concen: 22.024 ng m
RT: 15.29 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Instrument :
BNA_F
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.0	25.6#
125	14.7	9.0	13.6#

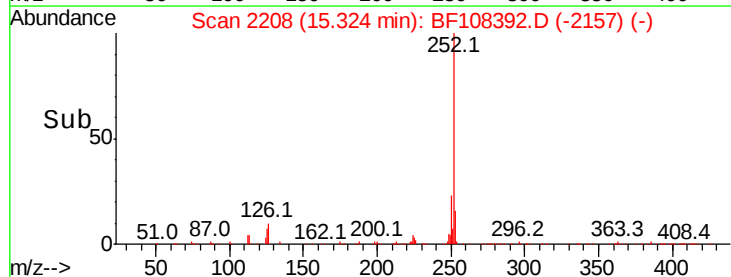
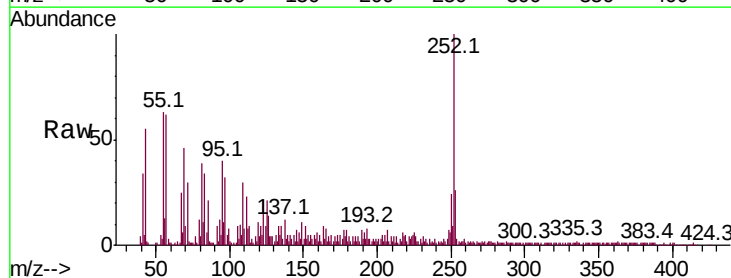
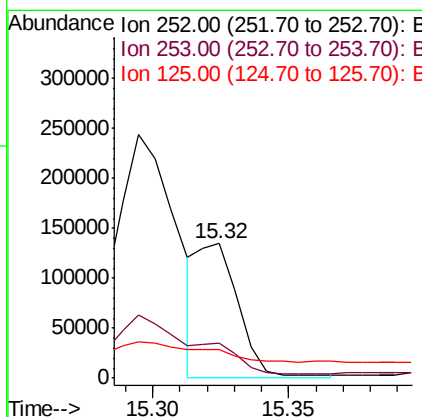
Manual Integrations
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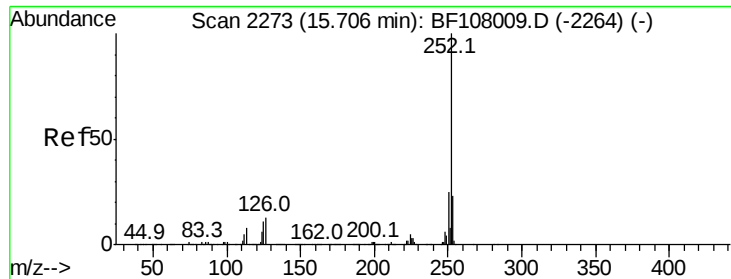
Sohil
8/23/2018 3:43:18 PM



#88
Benzo(k)fluoranthene
Concen: 9.129 ng m
RT: 15.32 min Scan# 2208
Delta R.T. -0.00 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.9	26.9
125	20.9	10.2	15.2#





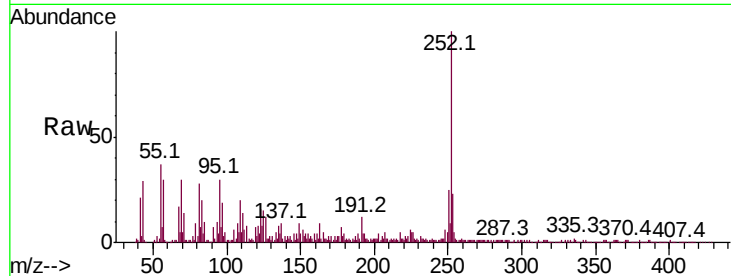
#89
Benzo(a)pyrene
Concen: 18.121 ng
RT: 15.70 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

Instrument :
BNA_F
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	14.7	9.8	14.6

Manual Integrations
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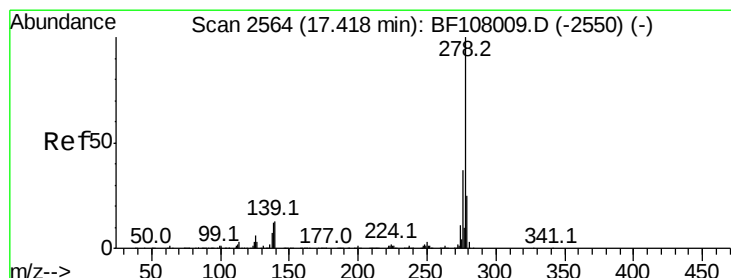
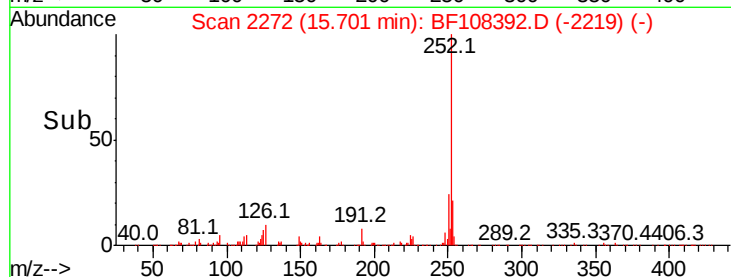
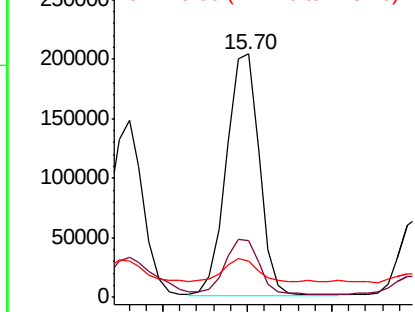


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Dibenzo(a,h)anthracene
Concen: 3.638 ng
RT: 17.38 min Scan# 2558
Delta R.T. -0.01 min
Lab File: BF108392.D
Acq: 22 Aug 2018 19:22

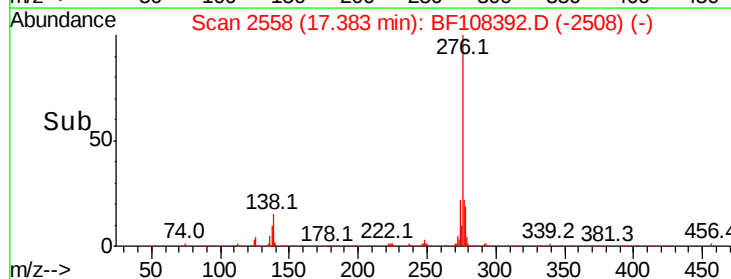
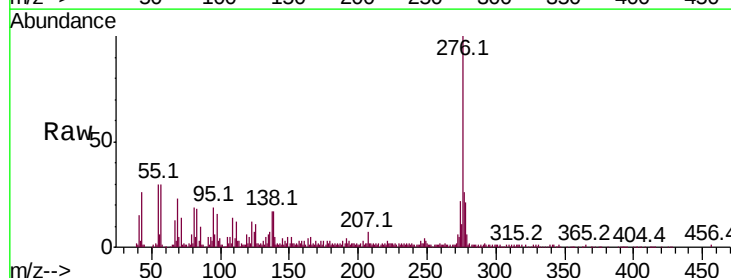
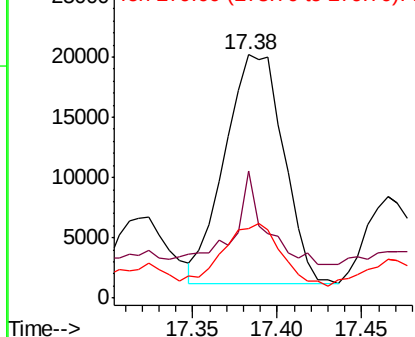
Tgt Ion	Ratio	Lower	Upper
278	100		
139	52.0	15.9	23.9
279	28.8	19.0	28.4

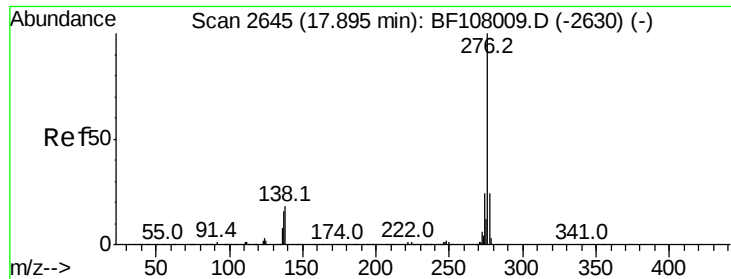
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 14.755 ng
 RT: 17.88 min Scan# 2642
 Delta R.T. 0.01 min
 Lab File: BF108392.D
 Acq: 22 Aug 2018 19:22

Instrument :
 BNA_F
 ClientSampleId :
 RA-081718-WSW-20-053

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	17.9	26.9
138	18.9	21.8	32.8#

Manual Integrations
 APPROVED

Sohil
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