

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081418\
 Data File : BF108142.D
 Acq On : 14 Aug 2018 14:06
 Operator : JU/SJ
 Sample : J4460-15 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-ESW-015

Manual Integrations
 APPROVED

Sohil
 8/15/2018 3:38:32 PM

Quant Time: Aug 14 17:20:14 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 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	184254	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	664978	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	282087	20.00	ng	0.00
63) Phenanthrene-d10	11.57	188	516474	20.00	ng	0.00
75) Chrysene-d12	14.22	240	430556	20.00	ng	0.00
86) Perylene-d12	15.79	264	304461	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	81701	8.03	ng	0.00
7) Phenol-d6	6.62	99	108965	8.06	ng	0.00
23) Nitrobenzene-d5	7.57	82	64259	5.39	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	20621	7.33	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	113927	6.48	ng	0.00
78) Terphenyl-d14	13.15	244	107186	6.33	ng	0.00
Target Compounds						
31) Naphthalene	8.32	128	332528	10.996	ng	99
37) 2-Methylnaphthalene	9.01	142	88411	4.132	ng	99
51) Acenaphthene	10.10	154	169418	10.644	ng	99
54) Dibenzofuran	10.27	168	210577	9.131	ng	97
57) Fluorene	10.61	166	206626	11.319	ng	96
70) Phenanthrene	11.60	178	2632393	108.061	ng	94
71) Anthracene	11.64	178	613504	24.572	ng	99
72) Carbazole	11.79	167	396967	17.895	ng	99
74) Fluoranthene	12.79	202	3063448	115.227	ng	95
77) Pyrene	13.02	202	2735539	100.355	ng	94
80) Benzo(a)anthracene	14.21	228	1455560	58.907	ng	96
82) Chrysene	14.25	228	1273383	56.211	ng	96
85) Indeno(1,2,3-cd)pyrene	17.41	276	446245	22.735	ng	# 87
87) Benzo(b)fluoranthene	15.32	252	1347253m	74.054	ng	
88) Benzo(k)fluoranthene	15.35	252	323600m	19.350	ng	
89) Benzo(a)pyrene	15.72	252	789541m	48.464	ng	
90) Dibenzo(a,h)anthracene	17.42	278	117656	8.729	ng	95
91) Benzo(g,h,i)perylene	17.91	276	412056	31.045	ng	# 91

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

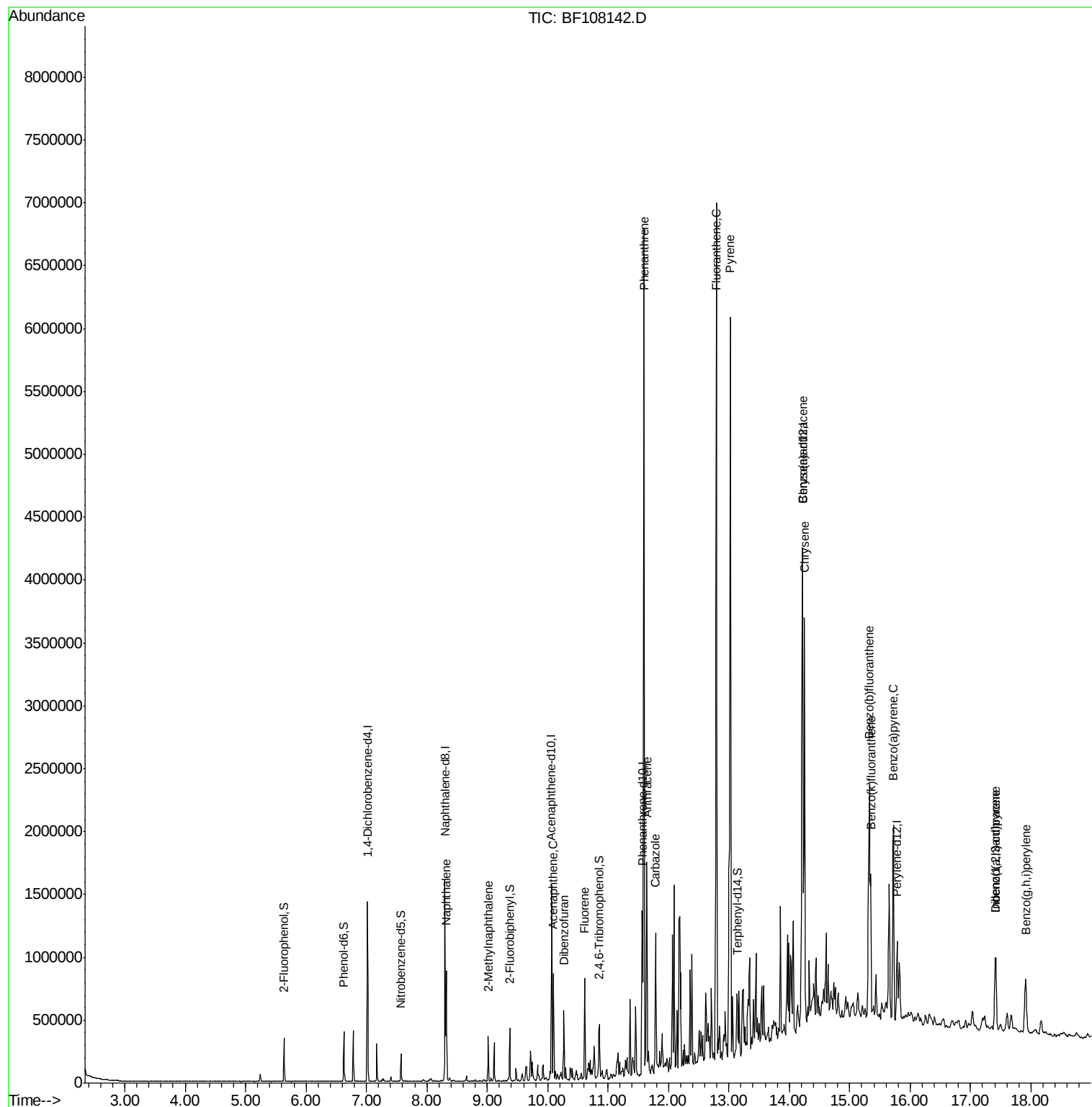
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081418\
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#1

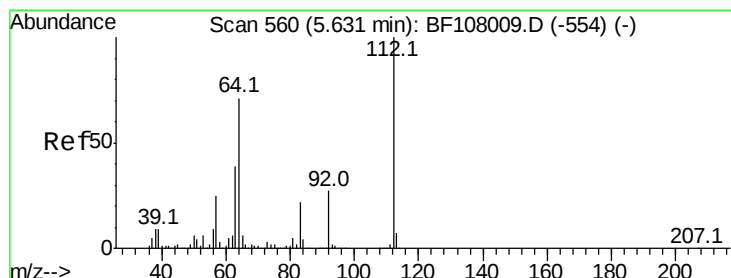
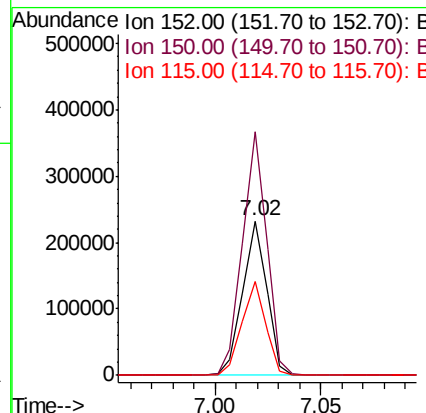
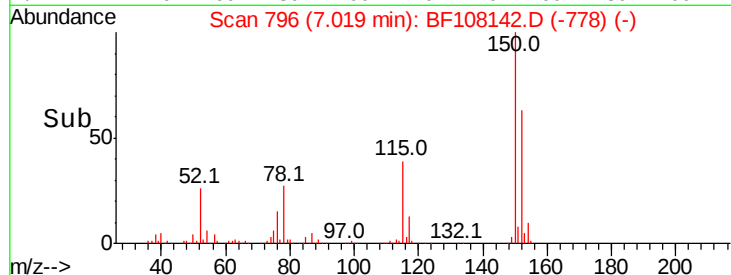
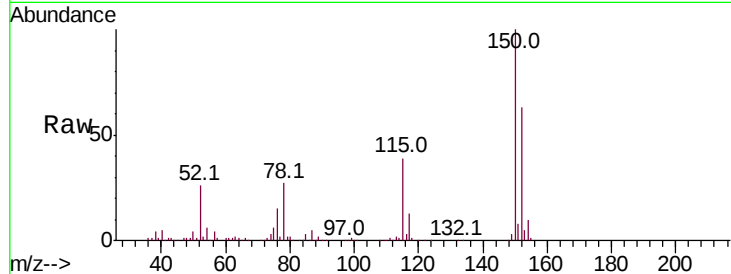
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.6	186.8
115	61.1	50.1	75.1

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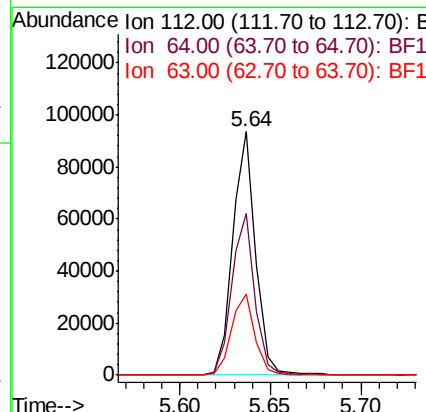
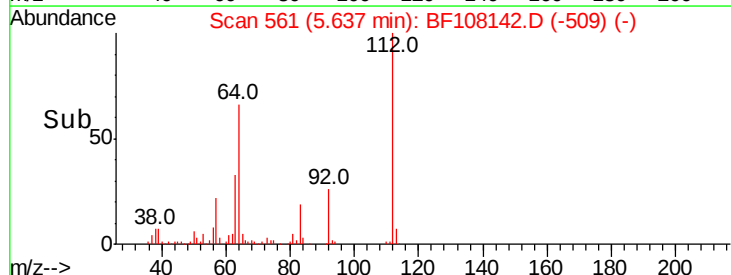
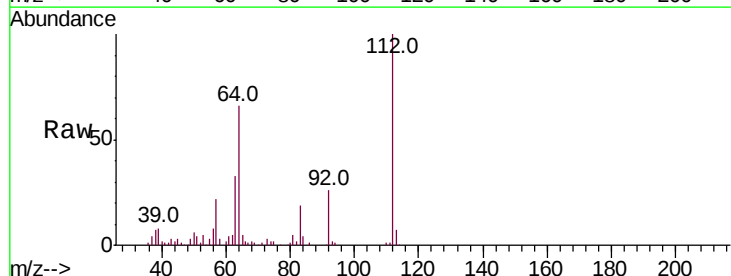
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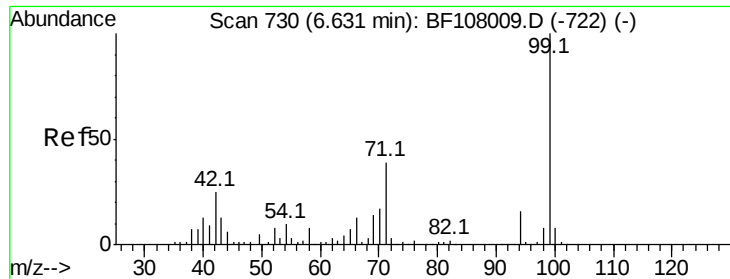


#5

2-Fluorophenol
Concen: 8.028 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.3	47.9	71.9
63	33.5	23.7	35.5





#7

Phenol-d6

Concen: 8.057 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

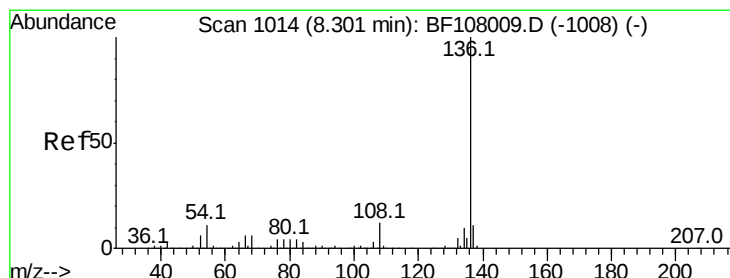
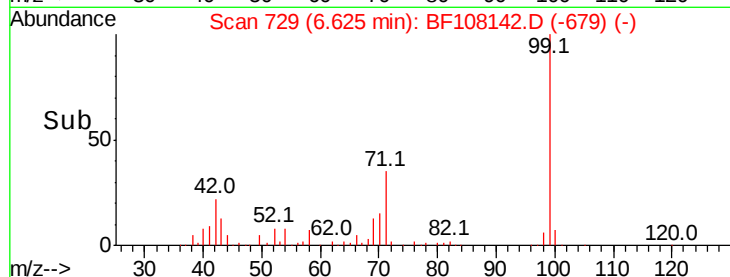
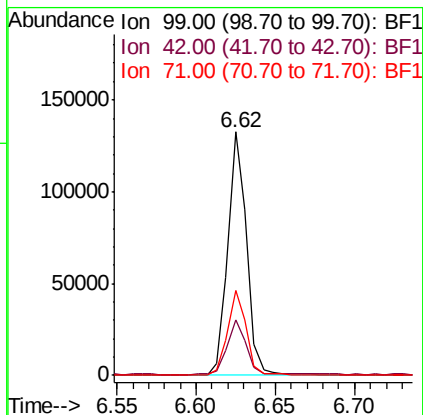
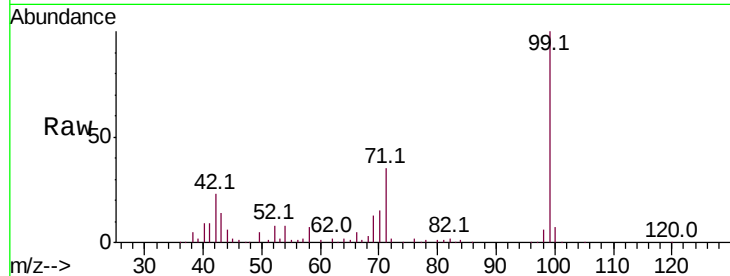
ClientSampleId :

RA-081018-ESW-015

Tot Ion:	99	Resp:	108965
Ion Ratio	Lower	Upper	
99	100		
42	22.8	14.5	21.7#
71	34.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

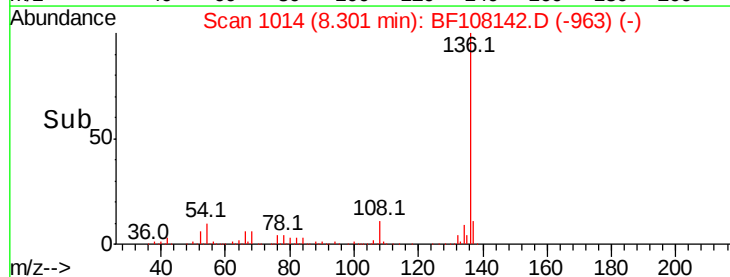
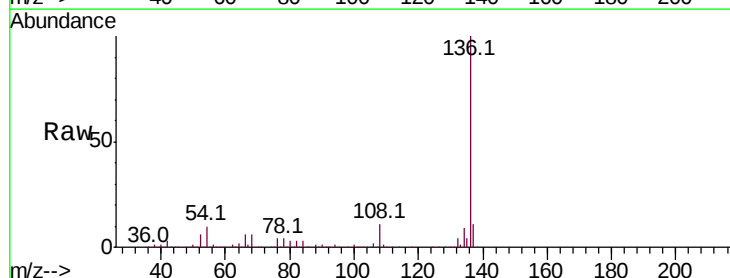
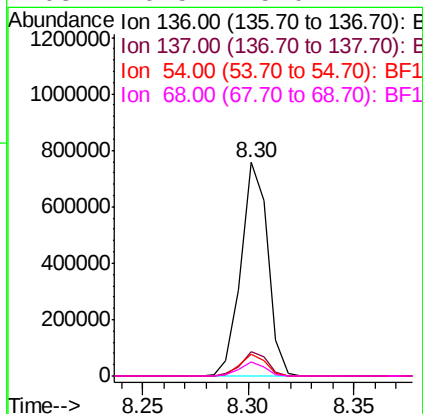
RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	136	Resp:	664978
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.4	6.6	9.8#
68	6.5	5.0	7.4





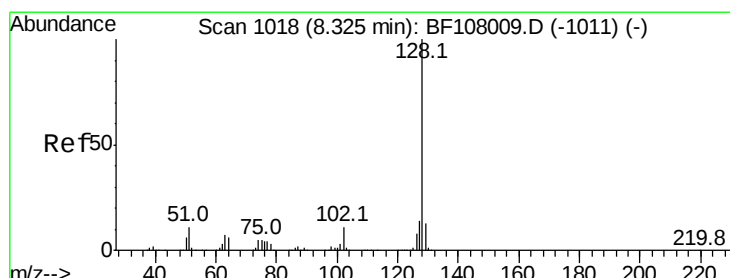
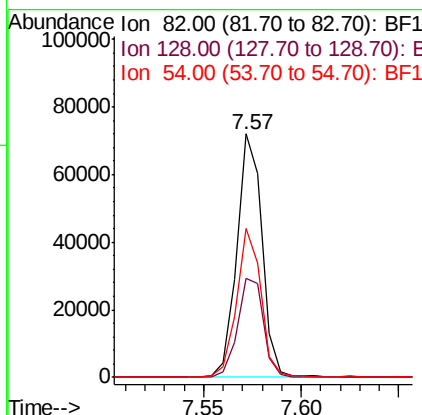
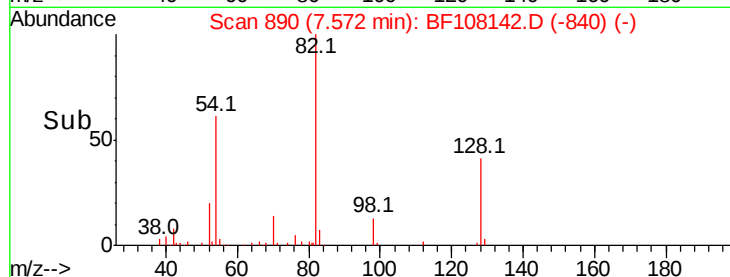
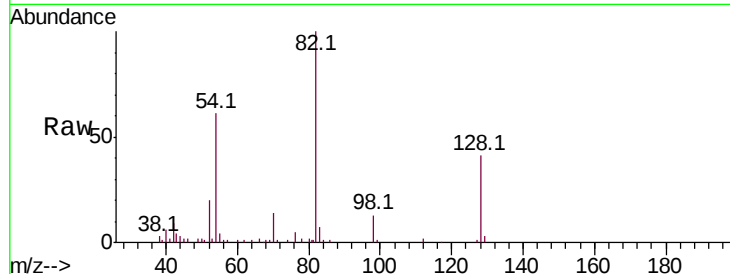
#23
 Nitrobenzene-d5
 Concen: 5.392 ng
 RT: 7.57 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.7	36.1	54.1
54	61.3	41.4	62.2

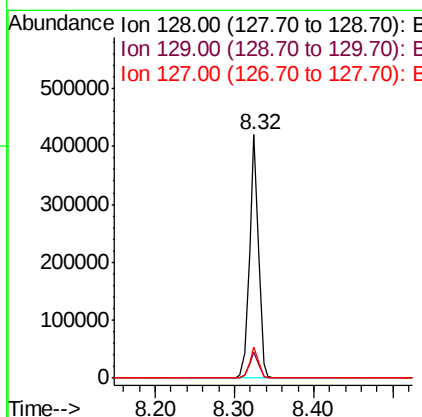
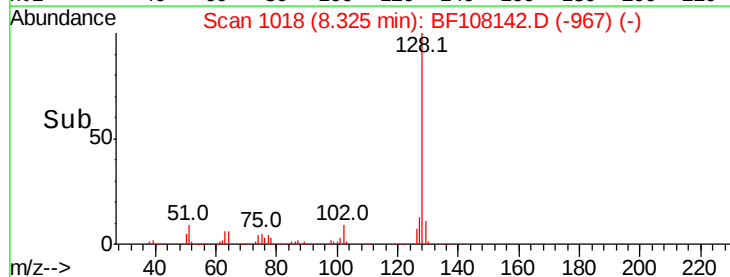
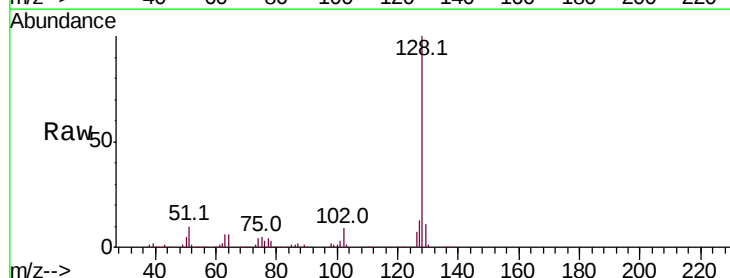
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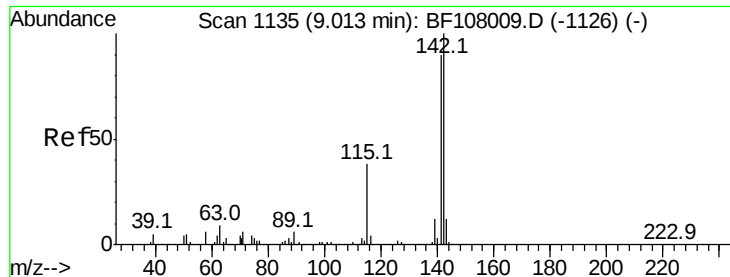
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#31
 Naphthalene
 Concen: 10.996 ng
 RT: 8.32 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	12.9	10.9	16.3





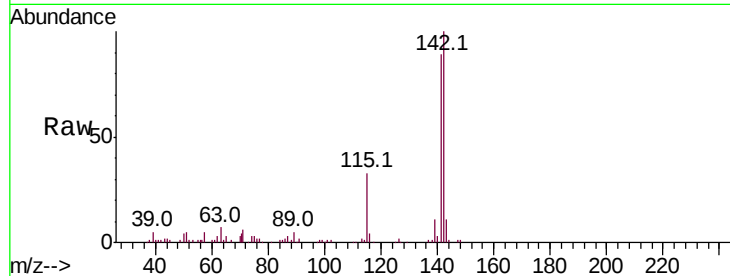
#37
2-Methylnaphthalene
Concen: 4.132 ng
RT: 9.01 min Scan# 1135
Delta R.T. 0.00 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2
115	33.1	26.1	39.1

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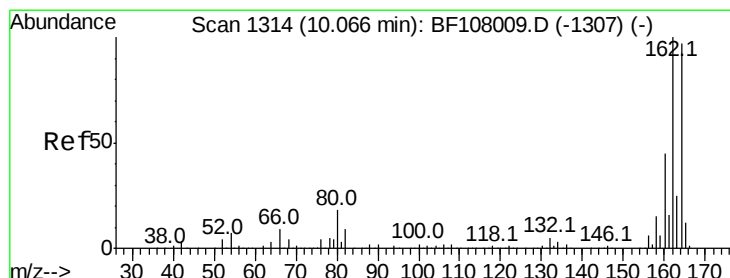
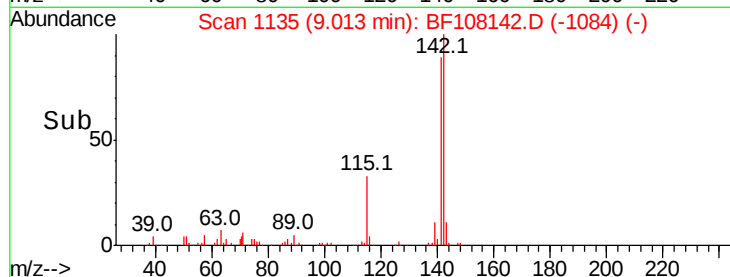
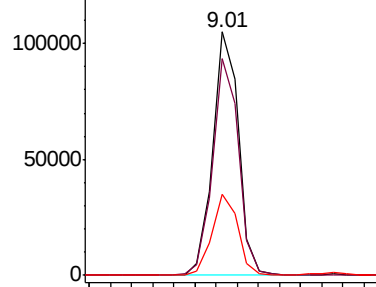


Abundance

Ion 142.00 (141.70 to 142.70): E

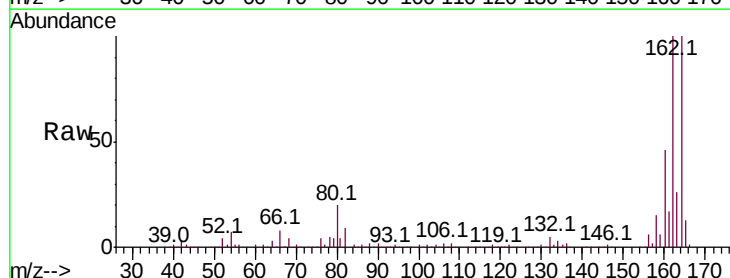
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.07 min Scan# 1314
Delta R.T. 0.00 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.8	86.1	129.1
160	46.5	38.3	57.5

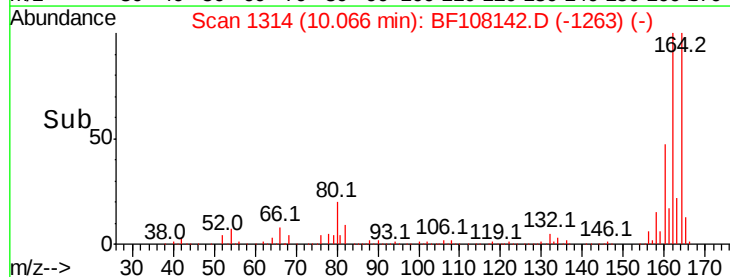
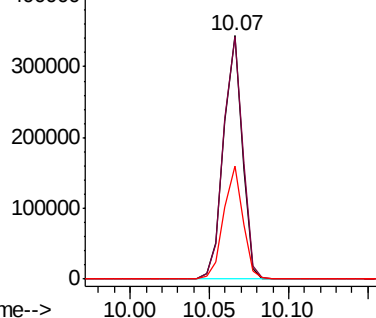


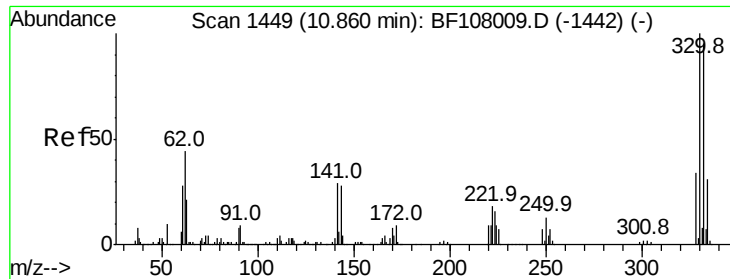
Abundance

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





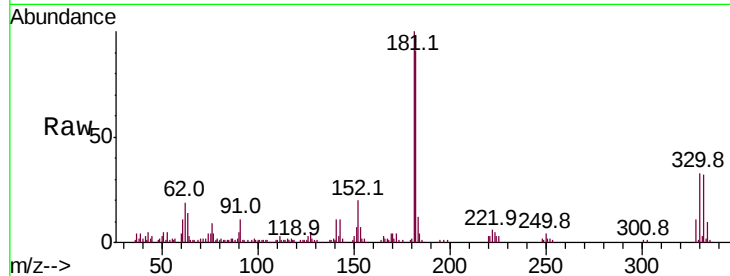
#41
 2,4,6-Tribromophenol
 Concen: 7.329 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.4	77.0	115.6
141	31.6	29.9	44.9

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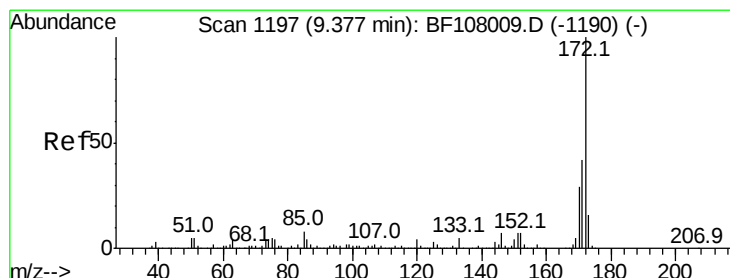
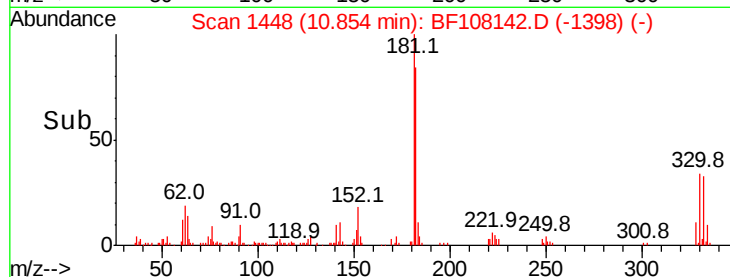
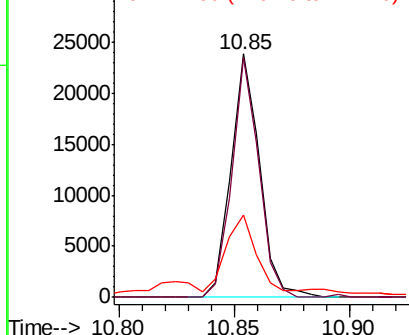


Abundance

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: 6.484 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

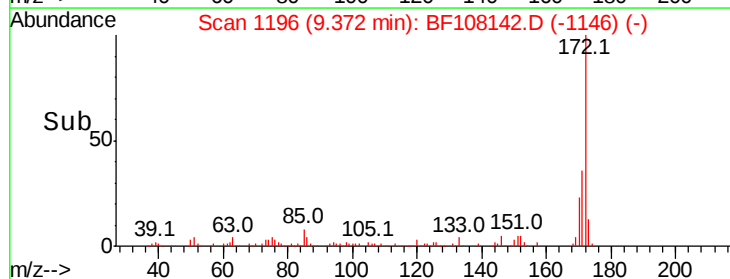
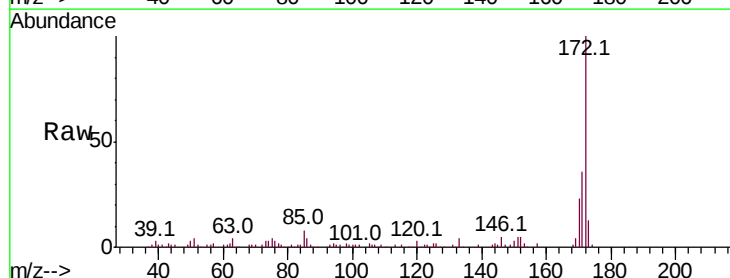
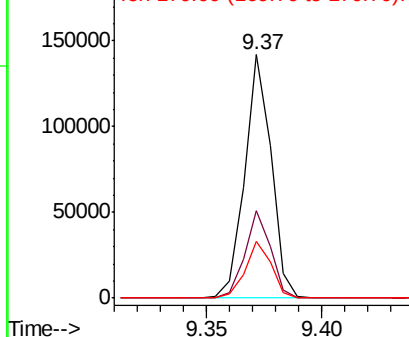
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.7	44.5
170	23.3	19.6	29.4

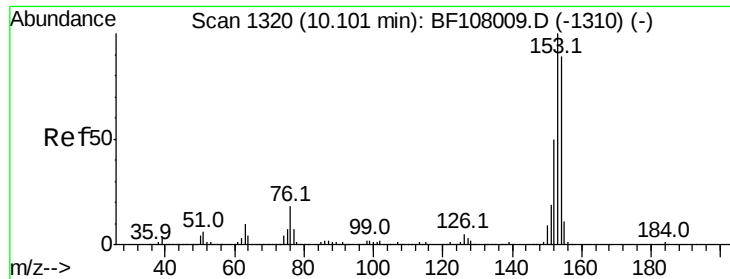
Abundance

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





#51

Acenaphthene

Concen: 10.644 ng

RT: 10.10 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-ESW-015

Tot Ion:154 Resp: 169418

Ion Ratio Lower Upper

154 100

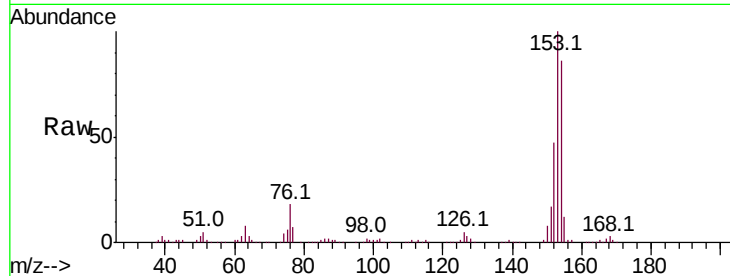
153 115.7 91.2 136.8

152 54.1 43.8 65.8

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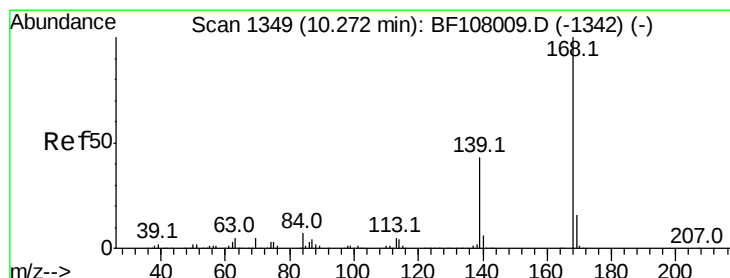
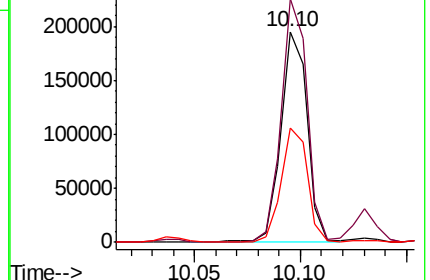
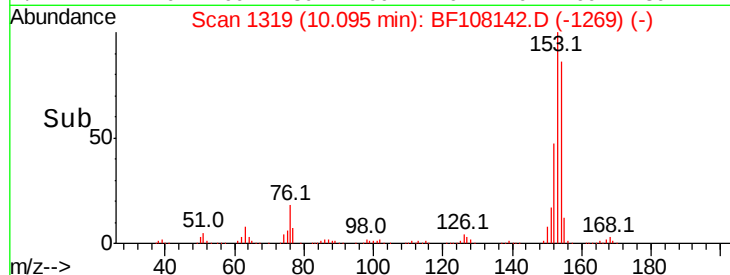
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.131 ng

RT: 10.27 min Scan# 1349

Delta R.T. 0.00 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

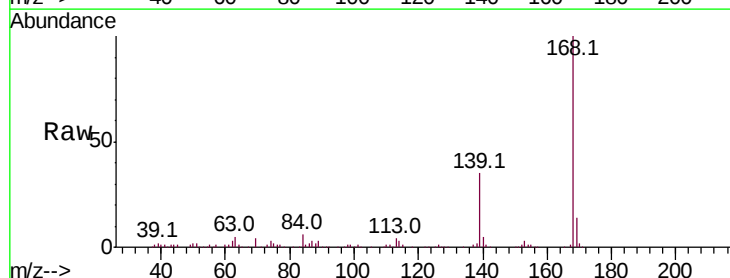
Tgt Ion:168 Resp: 210577

Ion Ratio Lower Upper

168 100

139 35.3 30.1 45.1

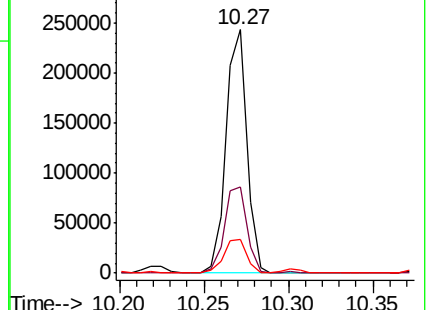
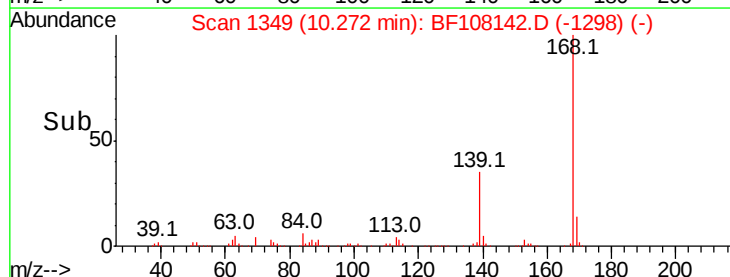
169 13.8 10.9 16.3

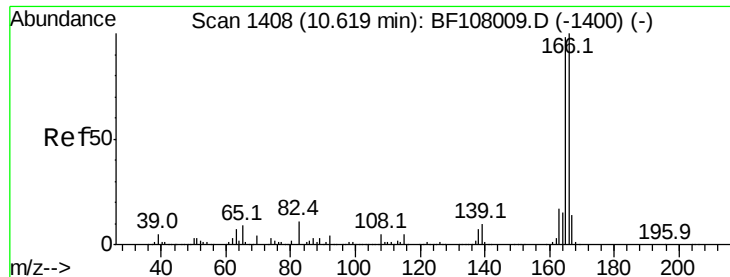


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 11.319 ng

RT: 10.61 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

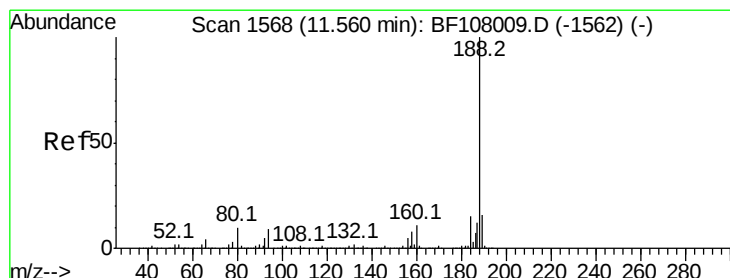
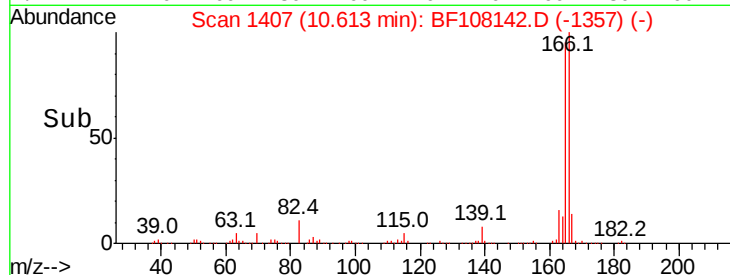
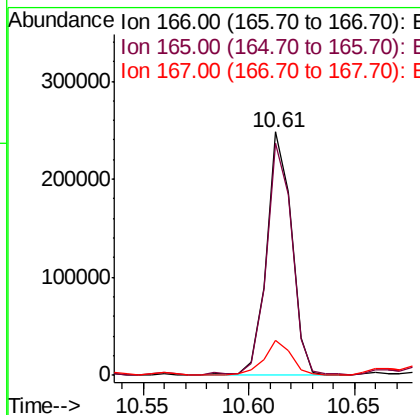
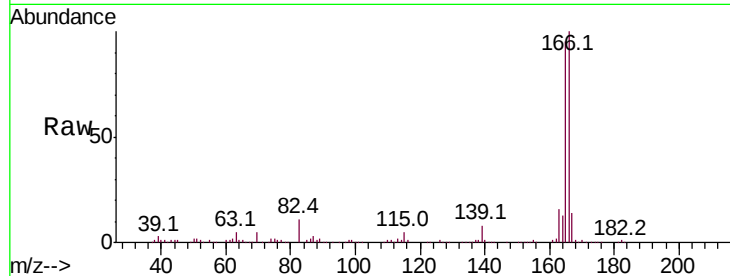
ClientSampleId :

RA-081018-ESW-015

Tot Ion:	166	Resp:	206626
Ion Ratio	Lower	Upper	
166	100		
165	95.4	79.8	119.8
167	14.2	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

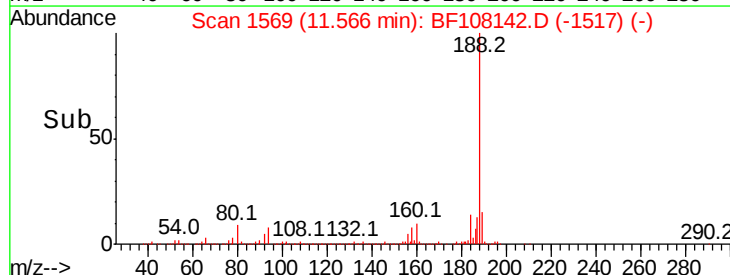
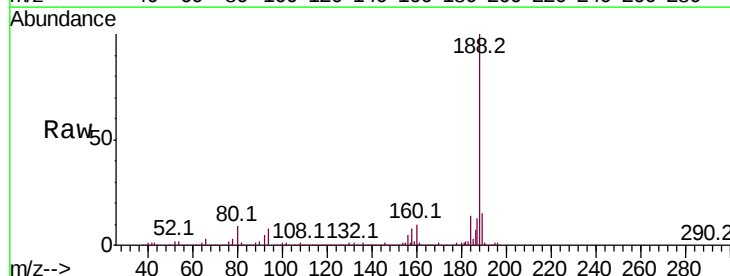
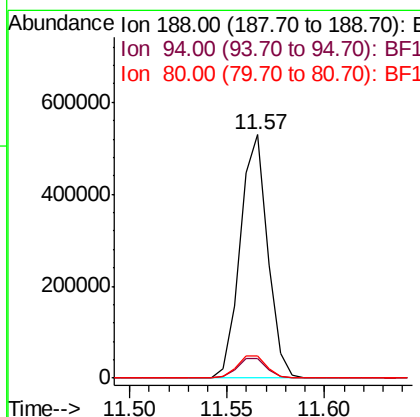
RT: 11.57 min Scan# 1569

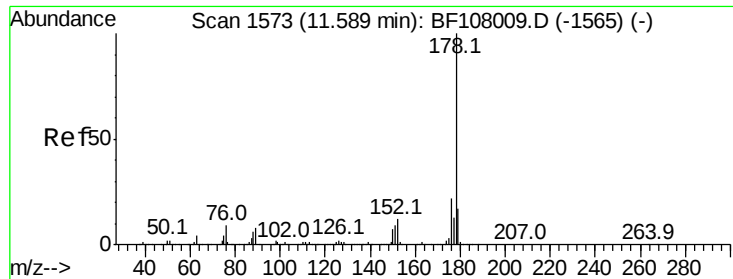
Delta R.T. 0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	188	Resp:	516474
Ion Ratio	Lower	Upper	
188	100		
94	8.0	8.5	12.7#
80	9.2	9.2	13.8





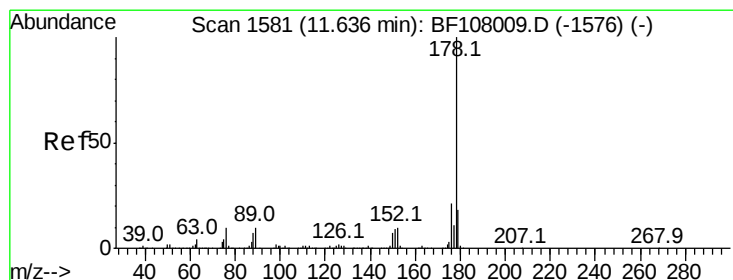
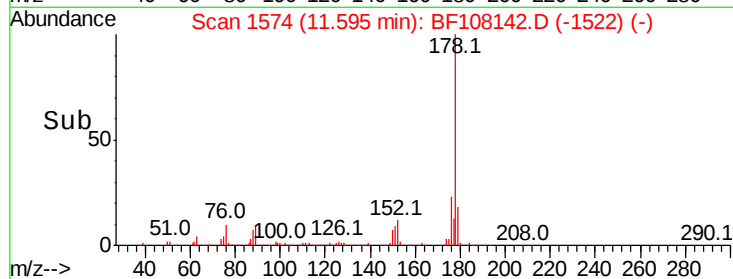
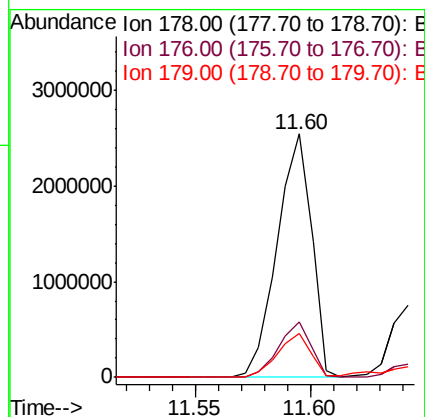
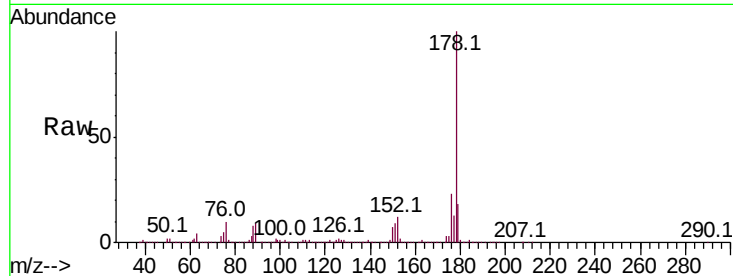
#70
Phenanthrene
Concen: 108.061 ng
RT: 11.60 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
178	100		
176	22.9	15.8	23.8
179	18.1	13.0	19.6

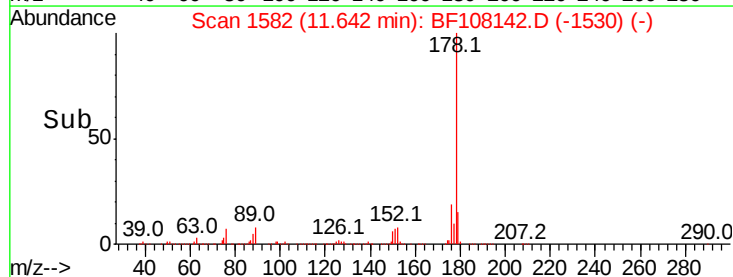
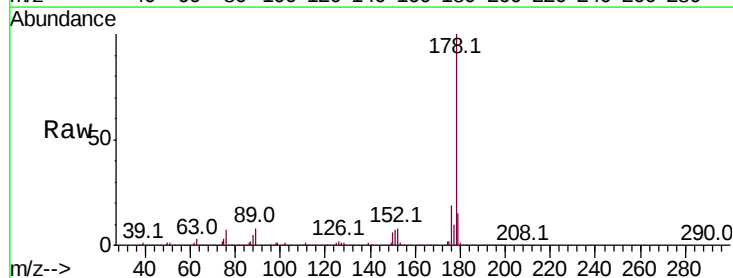
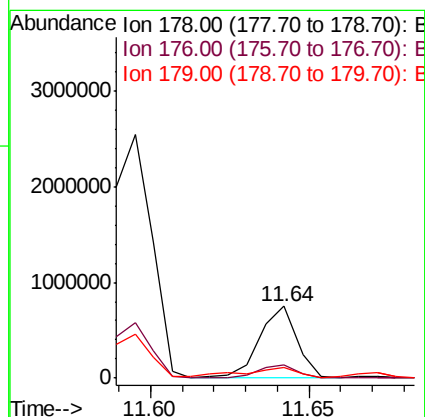
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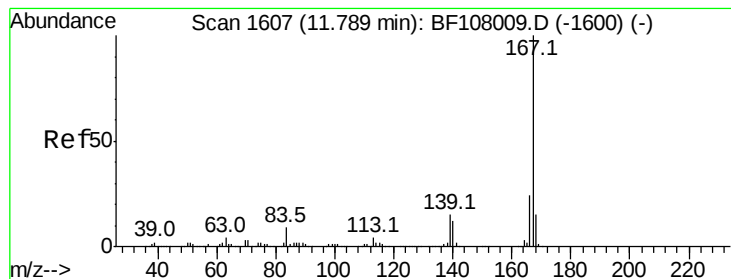
Sohil
8/15/2018 3:38:32 PM



#71
Anthracene
Concen: 24.572 ng
RT: 11.64 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.3	12.6	19.0





#72

Carbazole

Concen: 17.895 ng

RT: 11.79 min Scan# 1607

Delta R.T. 0.00 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

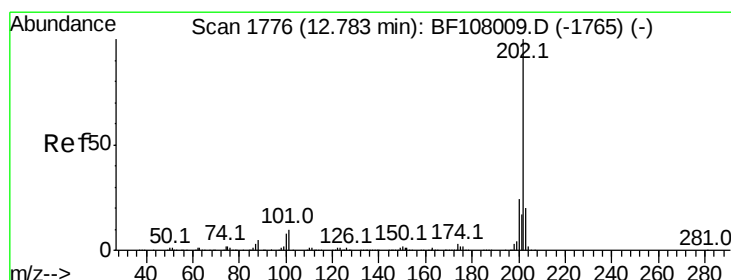
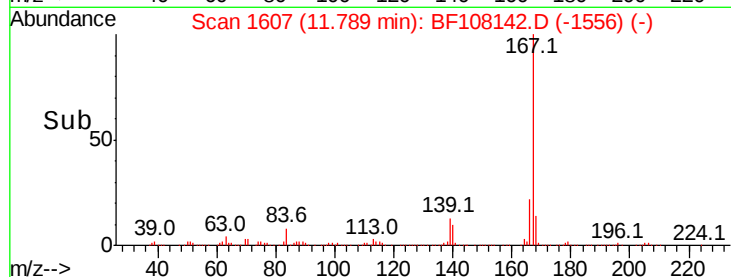
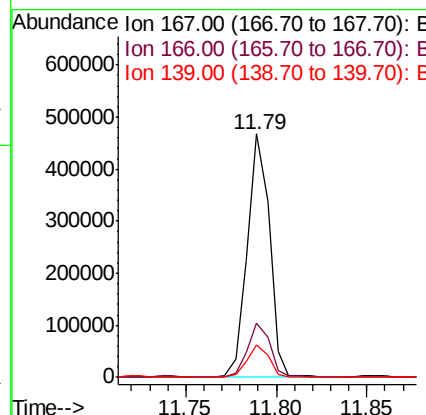
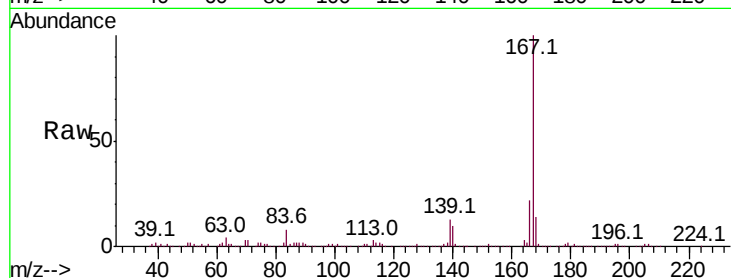
ClientSampleId :

RA-081018-ESW-015

Tot Ion:	167	Resp:	396967
Ion Ratio	Lower	Upper	
167	100		
166	22.3	17.6	26.4
139	13.2	10.9	16.3

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#74

Fluoranthene

Concen: 115.227 ng

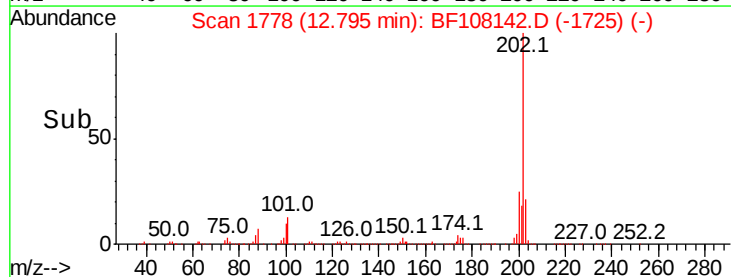
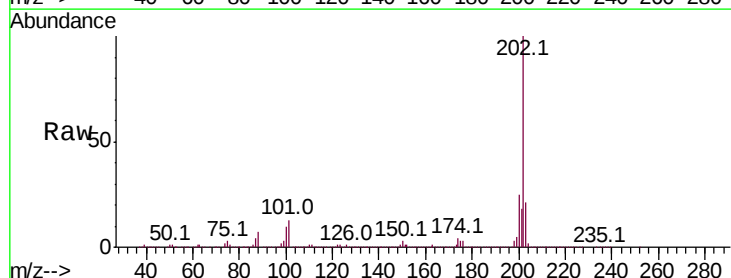
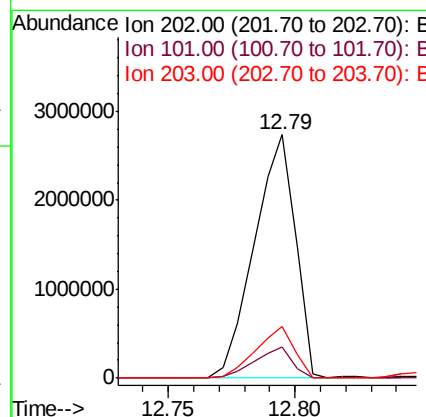
RT: 12.79 min Scan# 1778

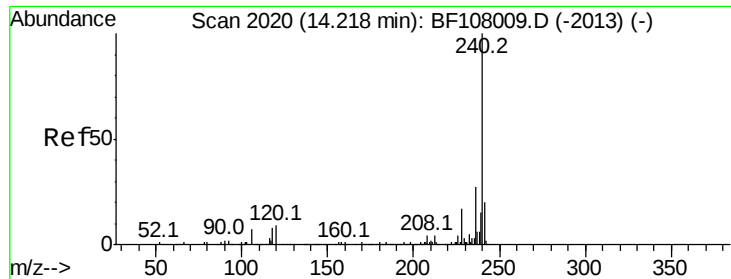
Delta R.T. 0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	202	Resp:	3063448
Ion Ratio	Lower	Upper	
202	100		
101	12.7	0.0	34.1
203	21.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2021

Delta R.T. 0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

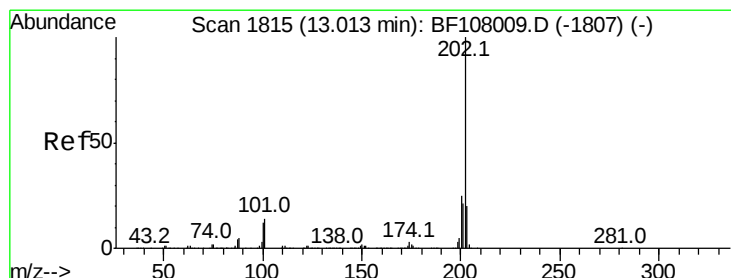
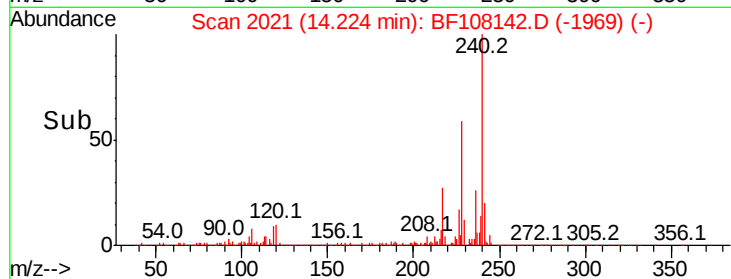
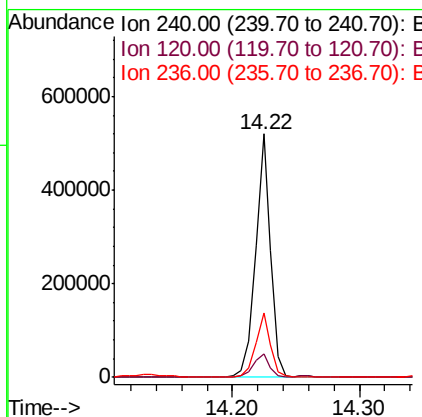
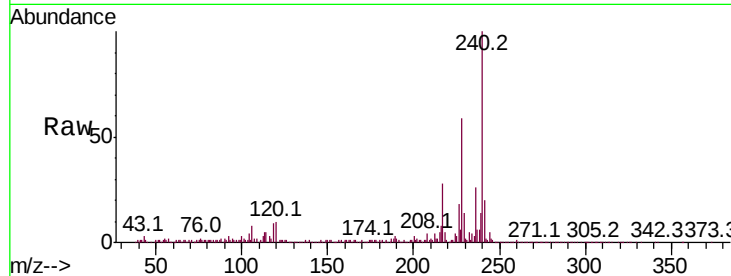
ClientSampleId :

RA-081018-ESW-015

Tot Ion:	240	Resp:	430556
Ion Ratio	Lower	Upper	
240	100		
120	9.8	9.5	14.3
236	26.3	20.7	31.1

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#77

Pyrene

Concen: 100.355 ng

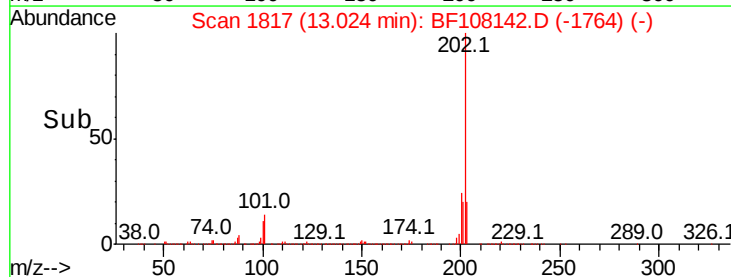
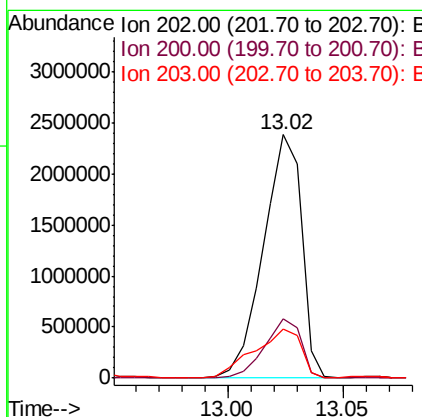
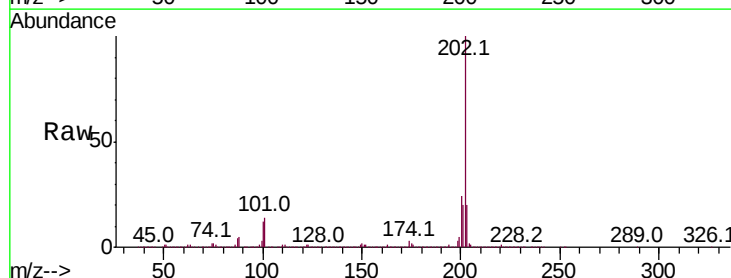
RT: 13.02 min Scan# 1817

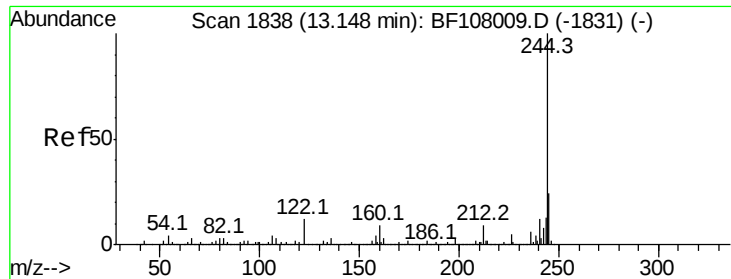
Delta R.T. 0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	202	Resp:	2735539
Ion Ratio	Lower	Upper	
202	100		
200	24.4	17.4	26.2
203	20.4	14.3	21.5





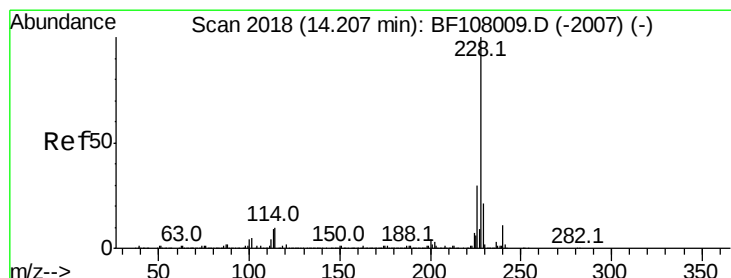
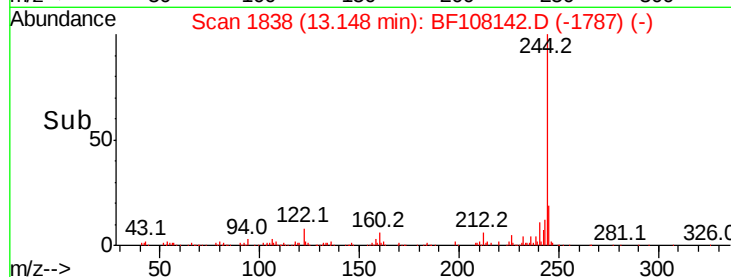
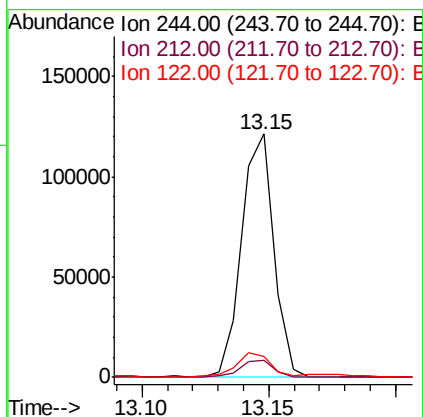
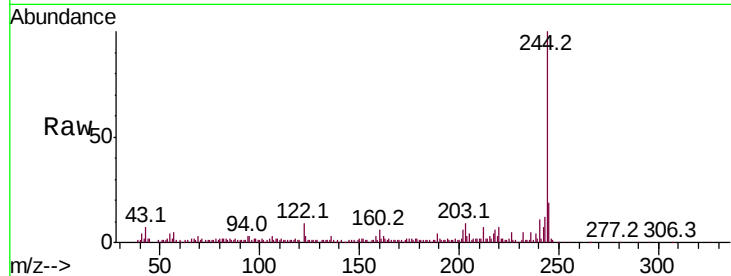
#78
 Terphenyl-d14
 Concen: 6.330 ng
 RT: 13.15 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	8.8	11.0	16.4

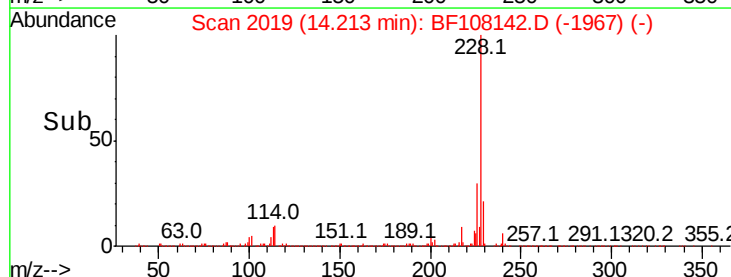
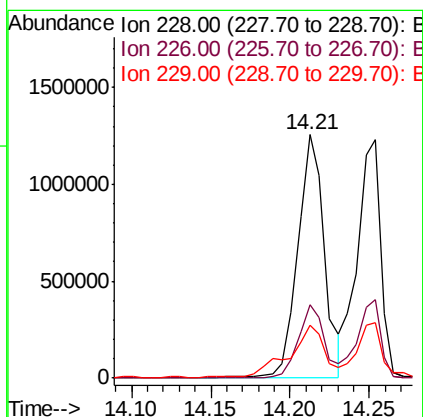
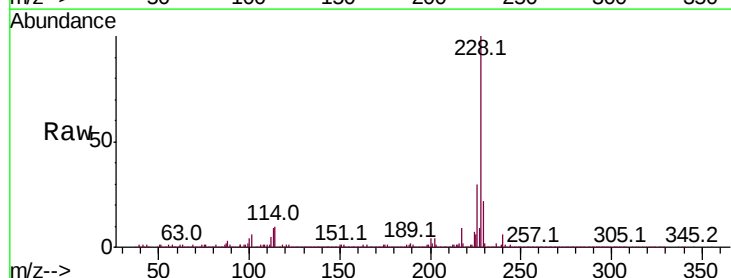
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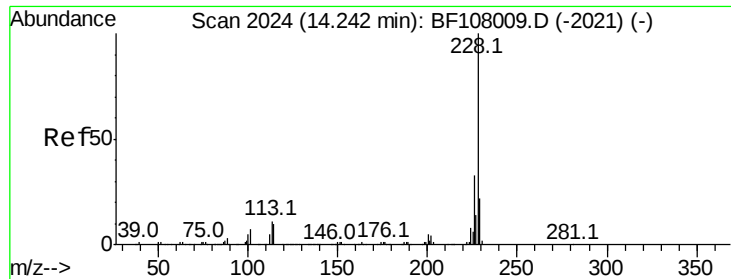
Sohil
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#80
 Benzo(a)anthracene
 Concen: 58.907 ng
 RT: 14.21 min Scan# 2019
 Delta R.T. 0.01 min
 Lab File: BF108142.D
 Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	21.6	15.8	23.6





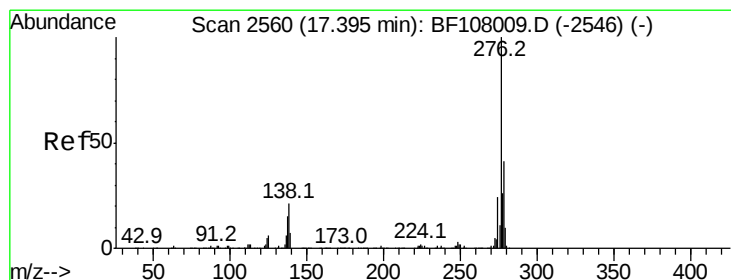
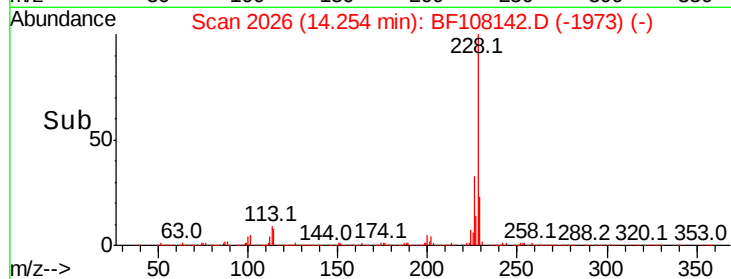
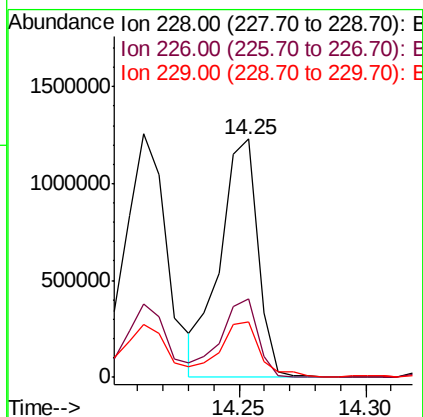
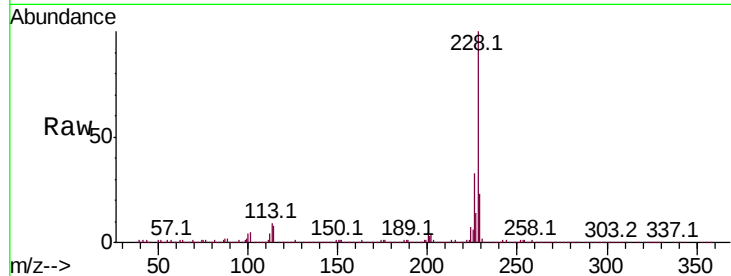
#82
Chrysene
Concen: 56.211 ng
RT: 14.25 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-ESW-015

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.0	25.0	37.6
229	23.2	16.2	24.4

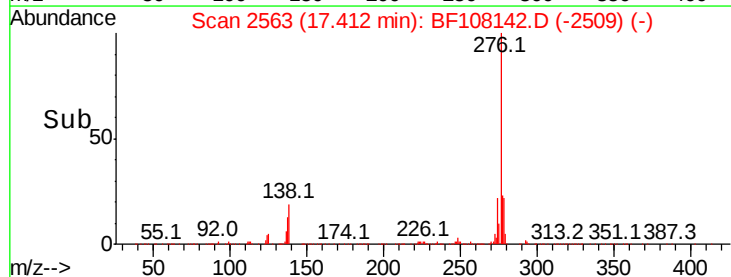
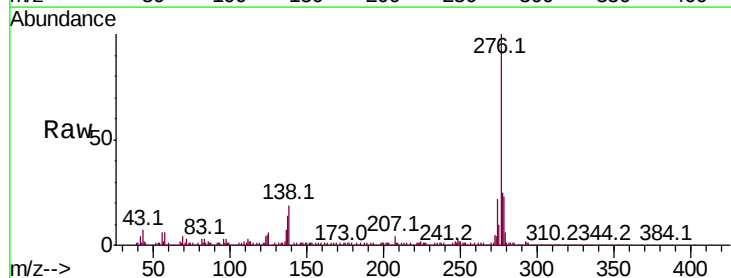
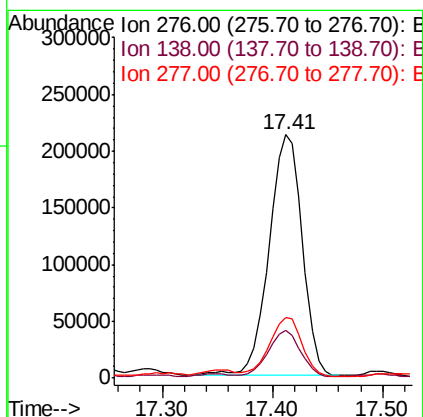
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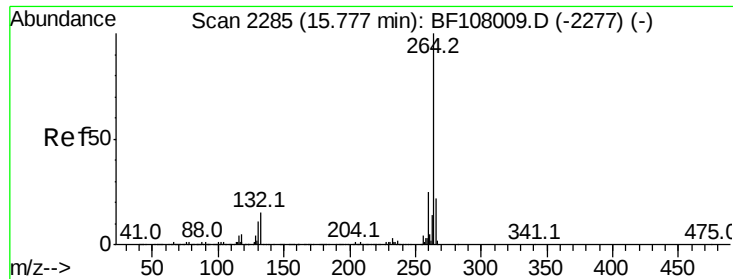
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 22.735 ng
RT: 17.41 min Scan# 2563
Delta R.T. 0.02 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.6	25.0	37.6#
277	24.5	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.79 min Scan# 2287

Delta R.T. 0.01 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

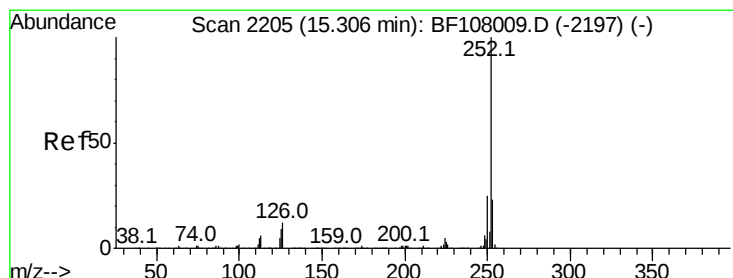
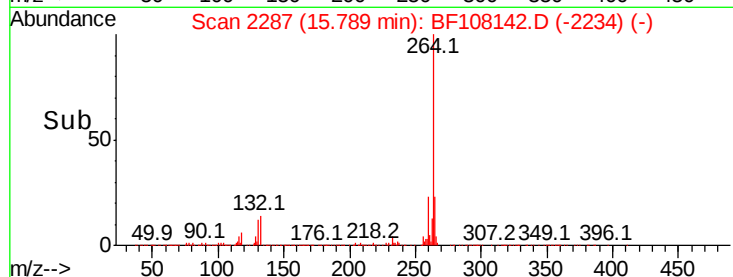
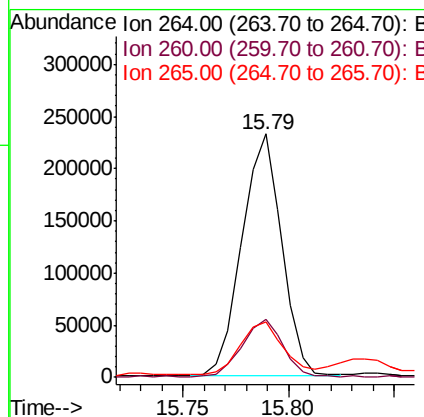
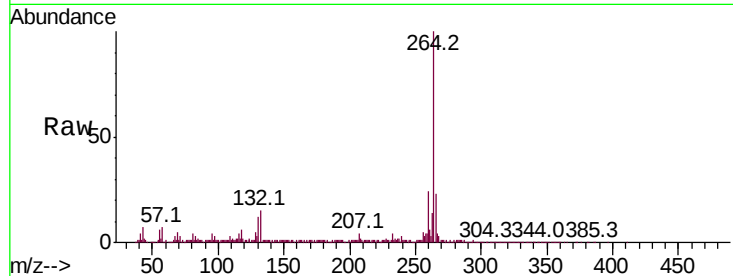
ClientSampleId :

RA-081018-ESW-015

Tot Ion:	264	Resp:	304461
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.2	28.8
265	22.9	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 74.054 ng m

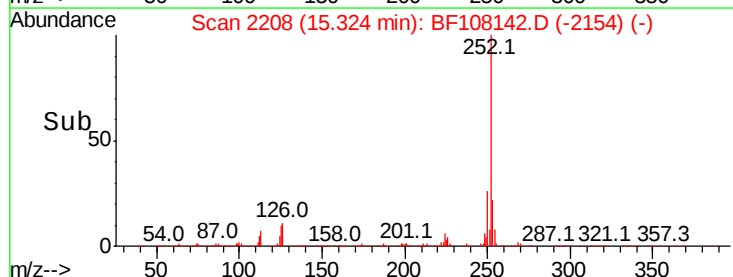
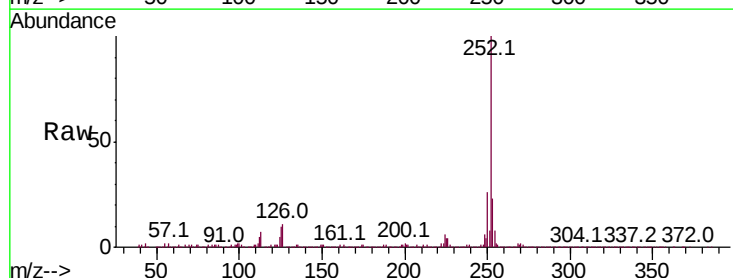
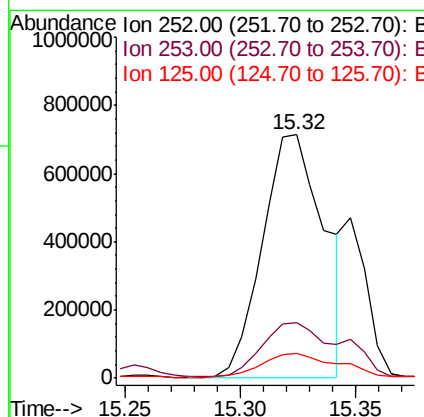
RT: 15.32 min Scan# 2208

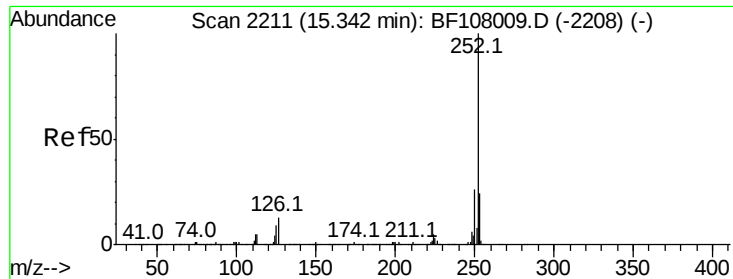
Delta R.T. 0.02 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	252	Resp:	1347253
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.0	25.6
125	10.1	9.0	13.6





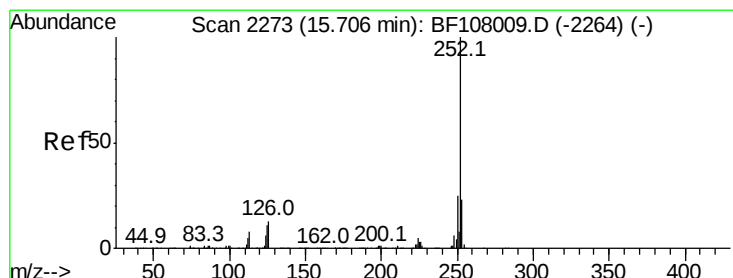
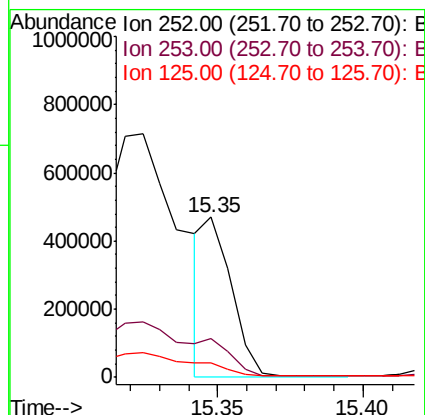
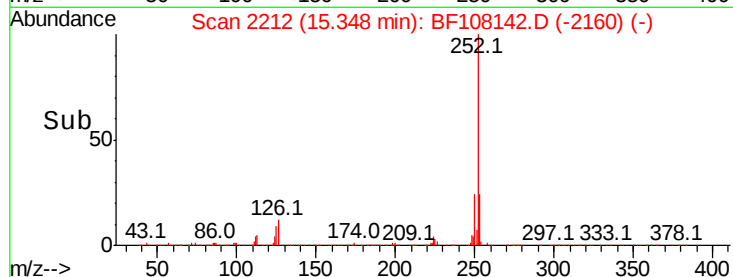
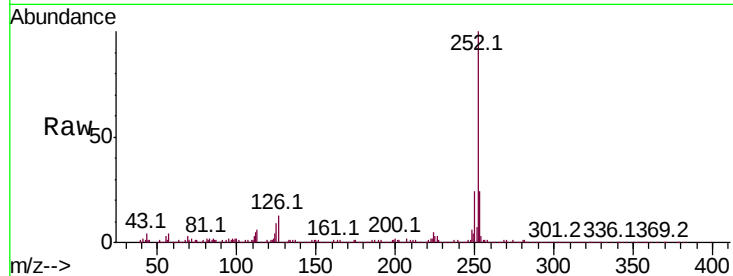
#88
Benzo(k)fluoranthene
Concen: 19.350 ng m
RT: 15.35 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-ESW-015

Tot Ion:	252	Resp:	323600
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.9	26.9
125	9.4	10.2	15.2#

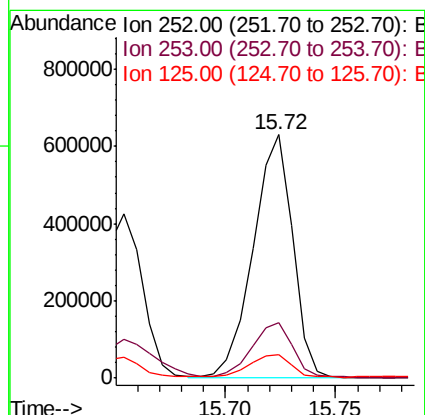
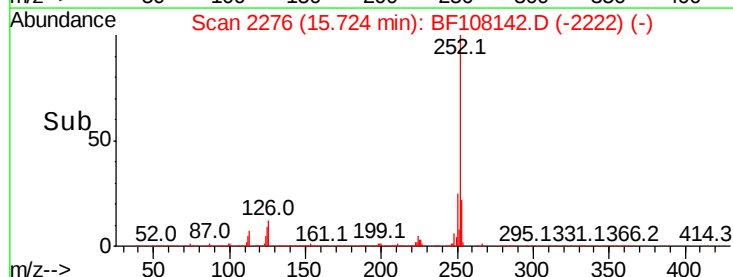
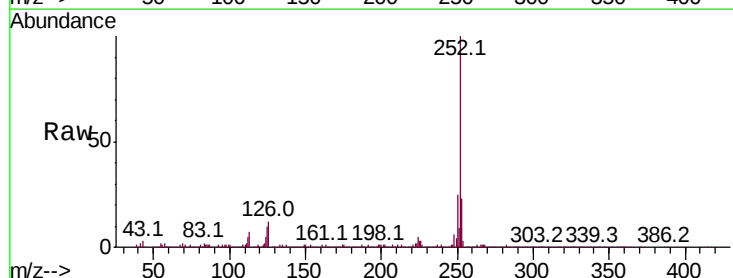
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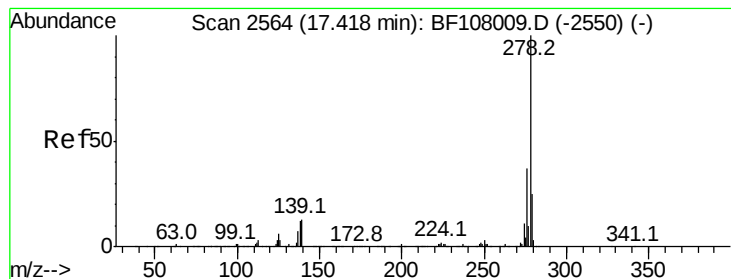
Sohil
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#89
Benzo(a)pyrene
Concen: 48.464 ng m
RT: 15.72 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF108142.D
Acq: 14 Aug 2018 14:06

Tgt Ion:	252	Resp:	789541
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.1	25.7
125	9.7	9.8	14.6#





#90

Dibenzo(a,h)anthracene

Concen: 8.729 ng

RT: 17.42 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Instrument :

BNA_F

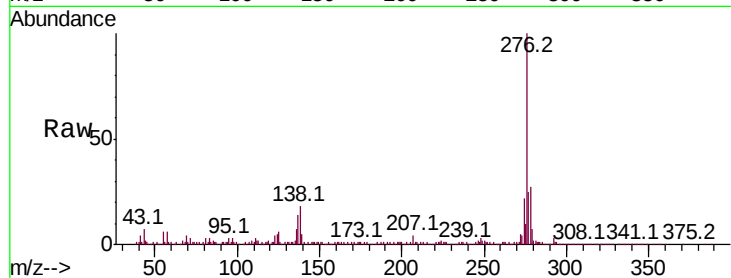
ClientSampleId :

RA-081018-ESW-015

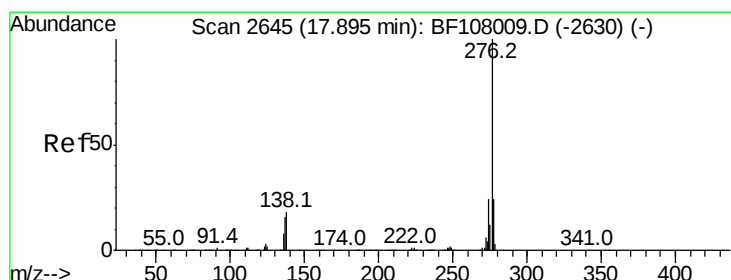
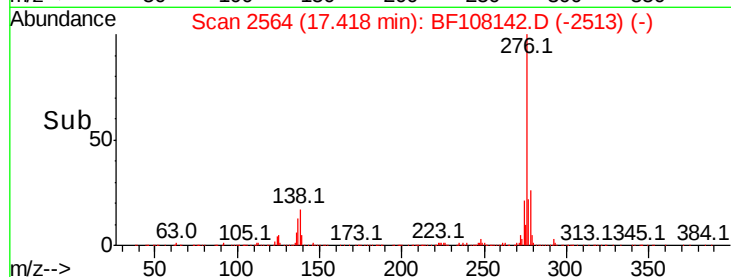
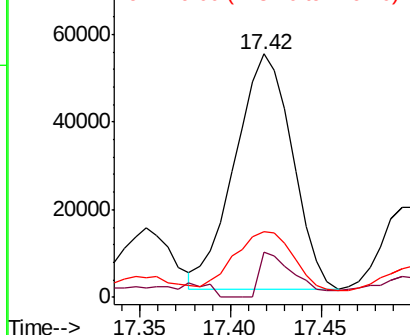
Tot Ion:	278	Resp:	117656
Ion Ratio	Lower	Upper	
278	100		
139	18.7	15.9	23.9
279	26.8	19.0	28.4

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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(g,h,i)perylene

Concen: 31.045 ng

RT: 17.91 min Scan# 2648

Delta R.T. 0.02 min

Lab File: BF108142.D

Acq: 14 Aug 2018 14:06

Tgt Ion:	276	Resp:	412056
Ion Ratio	Lower	Upper	
276	100		
277	23.3	17.9	26.9
138	19.6	21.8	32.8#

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

