

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
 Data File : BF107213.D
 Acq On : 7 Jul 2018 18:13
 Operator : JU/SJ
 Sample : J3880-03
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SURCHARGE-SP-12

Manual Integrations
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 7/9/2018 2:06:44 PM

Quant Time: Jul 09 04:54:17 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	70597	20.00	ng	-0.01
21) Naphthalene-d8	8.23	136	248765	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	111618	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	214681	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	155568	20.00	ng	-0.02
86) Perylene-d12	15.69	264	122769	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	429327	102.98	ng	0.00
7) Phenol-d6	6.60	99	533349	102.44	ng	-0.01
23) Nitrobenzene-d5	7.52	82	319231	71.32	ng	-0.02
41) 2,4,6-Tribromophenol	10.79	330	147533	114.04	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	558297	84.59	ng	-0.02
78) Terphenyl-d14	13.08	244	628598	97.88	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.61	94	13732	2.311	ng	82
31) Naphthalene	8.25	128	49592	4.264	ng	98
37) 2-Methylnaphthalene	8.95	142	18441	2.392	ng	94
48) Acenaphthylene	9.85	152	24860	2.249	ng	98
49) Dimethylphthalate	9.70	163	151835	18.137	ng	# 99
51) Acenaphthene	10.02	154	19228	2.762	ng	98
54) Dibenzofuran	10.20	168	29714	3.117	ng	92
57) Fluorene	10.54	166	29691	3.925	ng	99
70) Phenanthrene	11.51	178	309896	29.929	ng	100
71) Anthracene	11.57	178	106818	10.107	ng	99
72) Carbazole	11.72	167	44648	4.512	ng	98
74) Fluoranthene	12.71	202	507318	44.452	ng	96
77) Pyrene	12.95	202	470240	45.838	ng	99
80) Benzo(a)anthracene	14.14	228	251619	26.538	ng	98
82) Chrysene	14.18	228	225196	25.817	ng	98
83) Bis(2-ethylhexyl)phthalate	14.09	149	13472	2.498	ng	# 93
85) Indeno(1,2,3-cd)pyrene	17.29	276	97604	13.185	ng	# 86
87) Benzo(b)fluoranthene	15.24	252	248807m	32.625	ng	
88) Benzo(k)fluoranthene	15.26	252	78829m	10.854	ng	
89) Benzo(a)pyrene	15.63	252	165932	24.475	ng	95
90) Dibenzo(a,h)anthracene	17.29	278	27724m	4.825	ng	
91) Benzo(g,h,i)perylene	17.78	276	95387	16.985	ng	# 89

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

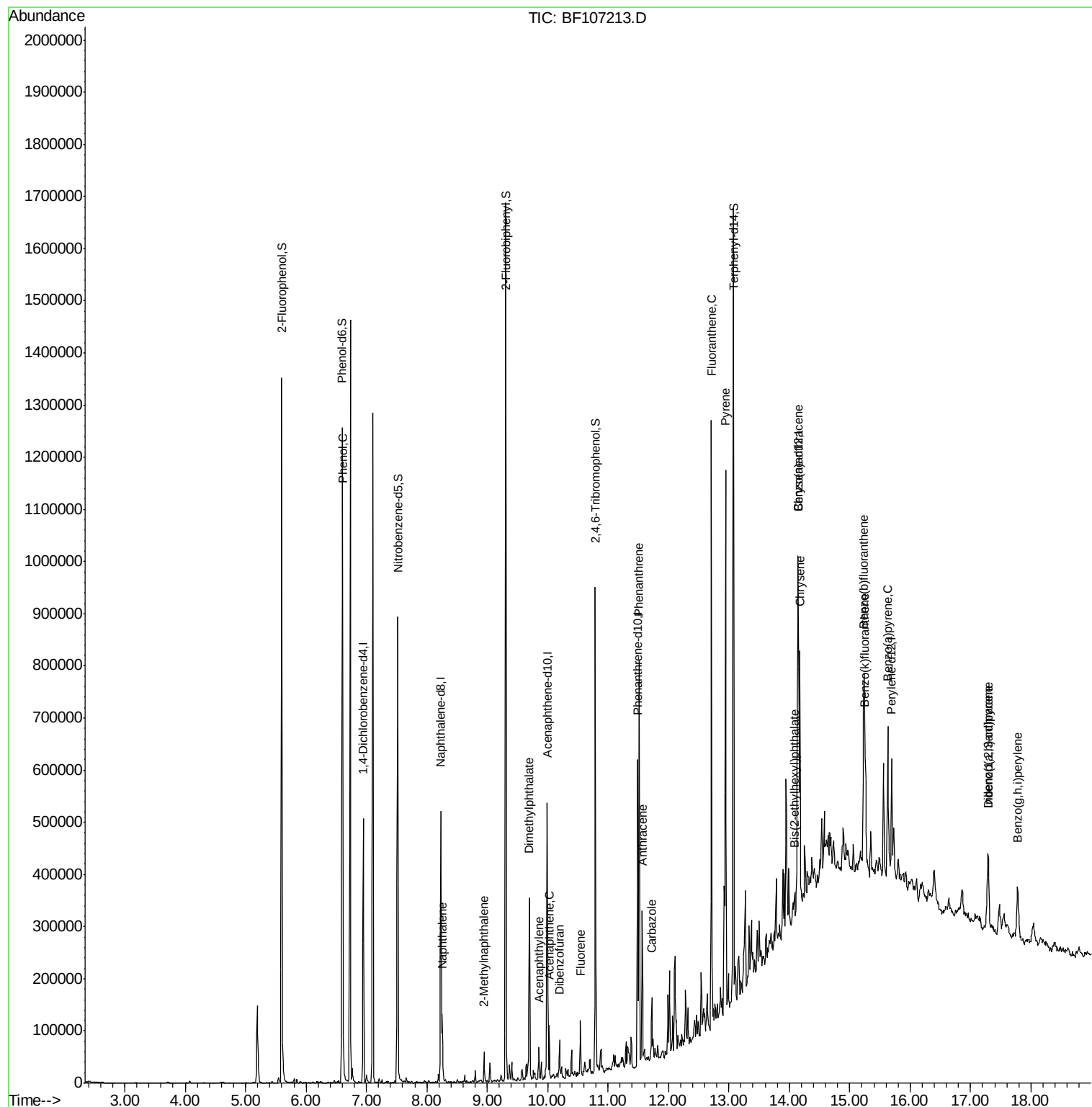
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107213.D
Acq On : 7 Jul 2018 18:13
Operator : JU/SJ
Sample : J3880-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

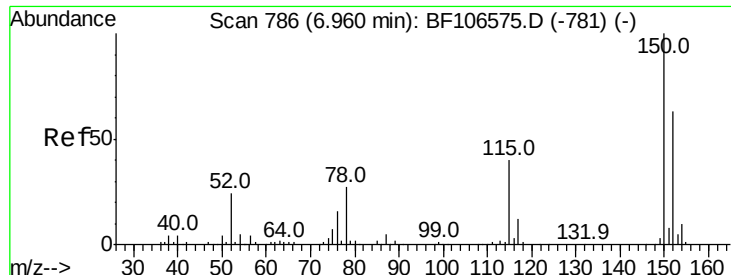
Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

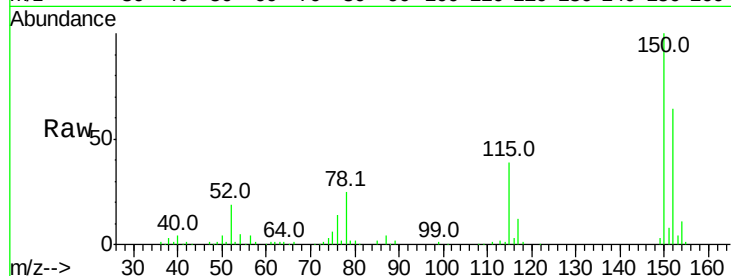
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.95 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

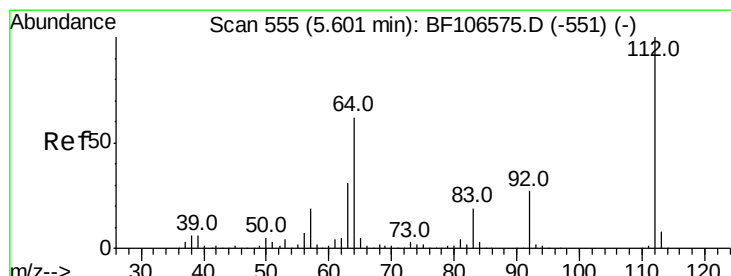
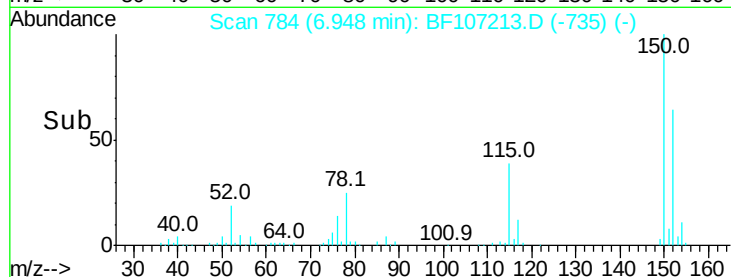
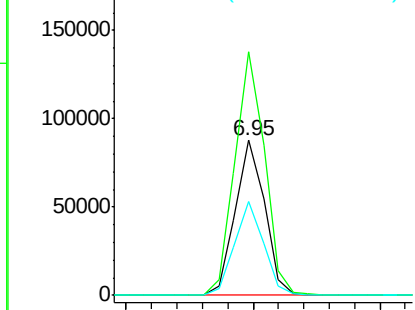
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	124.6	186.8
115	60.8	50.1	75.1

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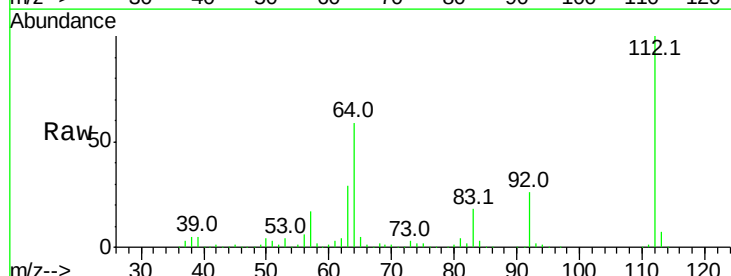
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



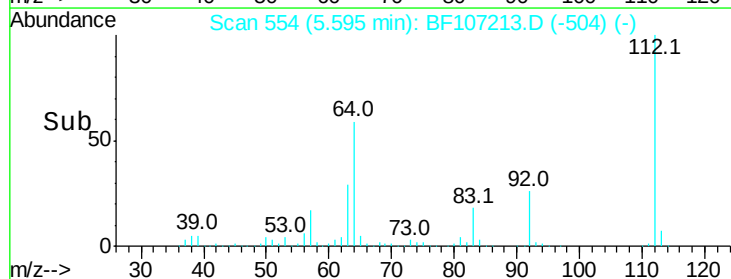
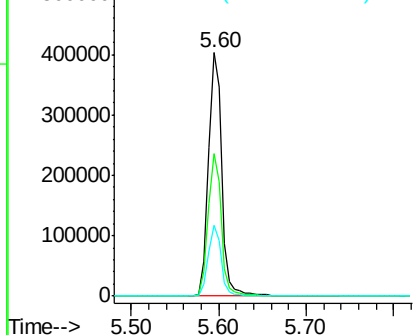
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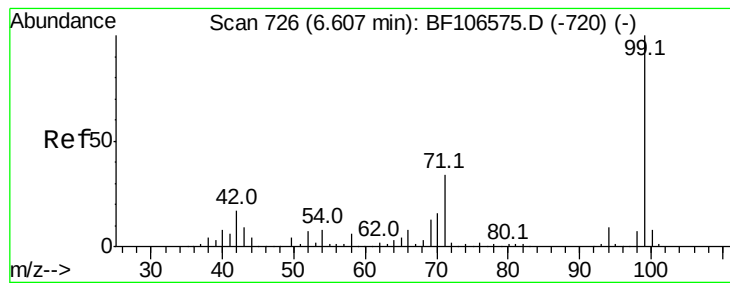
2-Fluorophenol
Concen: 102.977 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.9	71.9
63	28.9	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: 102.440 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Instrument :

BNA_F

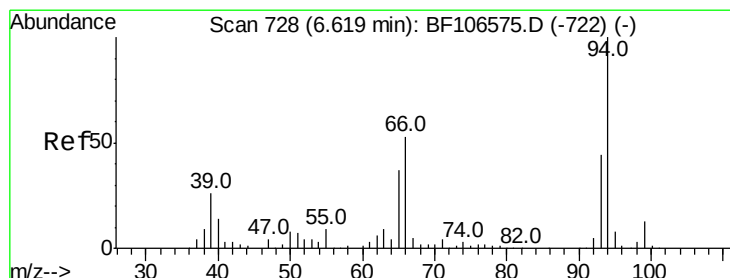
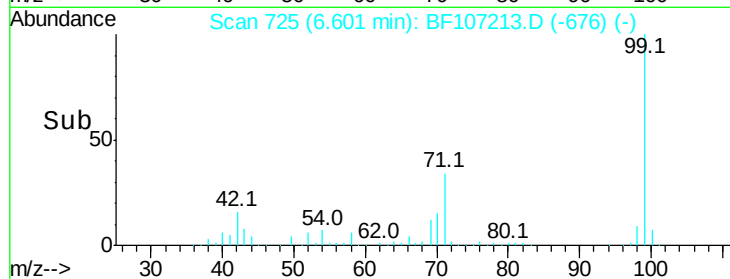
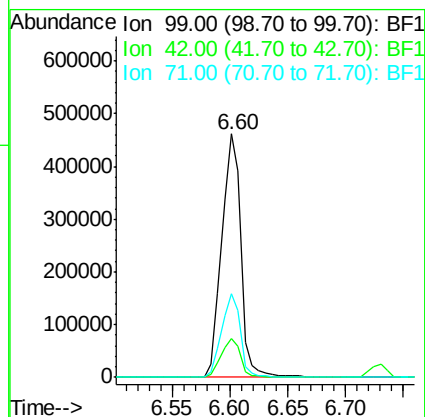
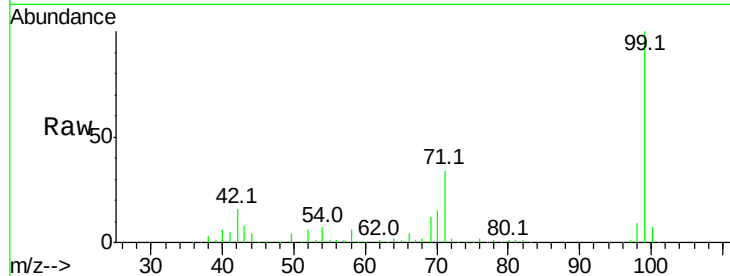
ClientSampleId :

SURCHARGE-SP-12

Tot Ion:	99	Resp:	533349
Ion	Ratio	Lower	Upper
99	100		
42	16.2	14.5	21.7
71	34.2	25.4	38.0

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#10

Phenol

Concen: 2.311 ng

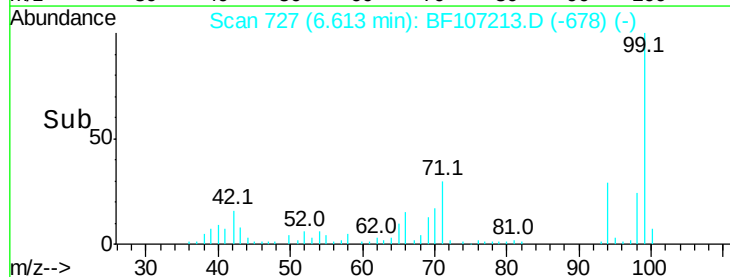
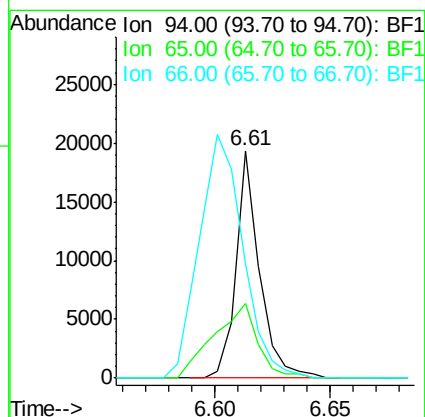
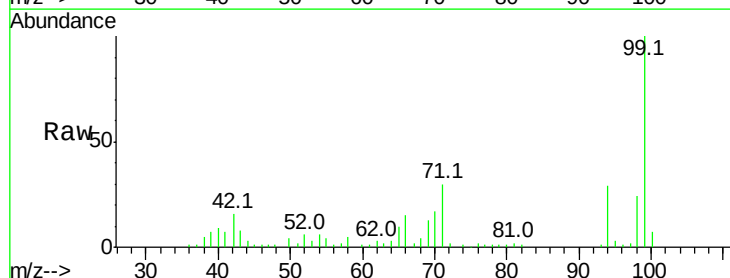
RT: 6.61 min Scan# 727

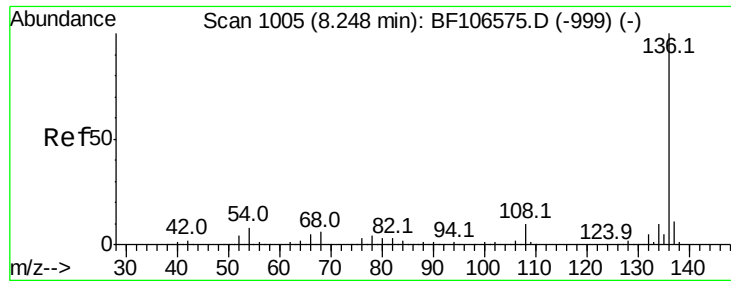
Delta R.T. -0.01 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Tgt Ion:	94	Resp:	13732
Ion	Ratio	Lower	Upper
94	100		
65	32.9	7.9	47.9
66	50.4	16.2	56.2





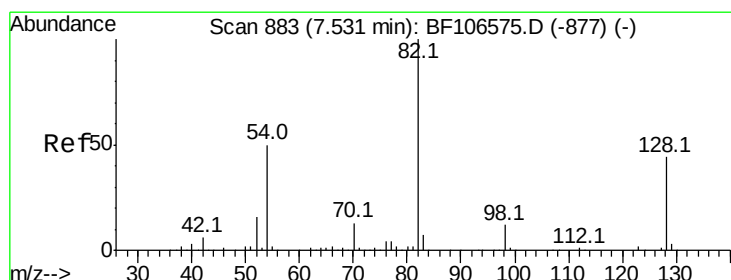
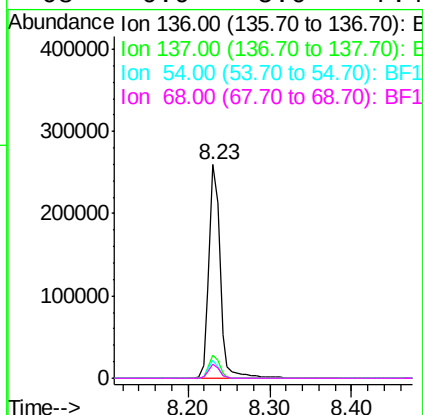
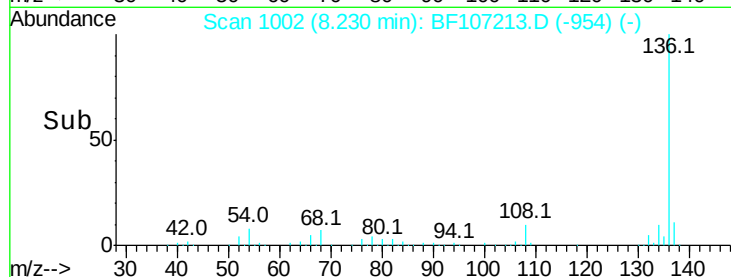
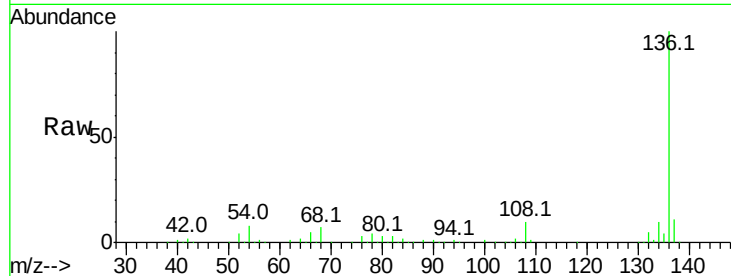
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.23 min Scan# 1002
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.0	8.9	13.3	
54	8.3	6.6	9.8	
68	6.9	5.0	7.4	

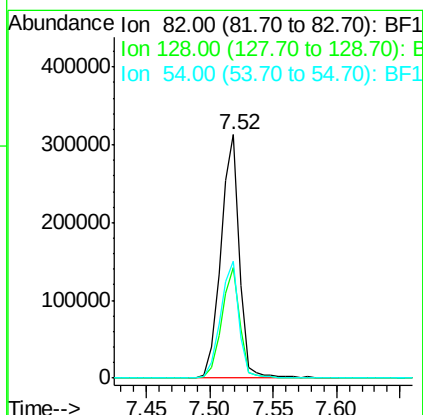
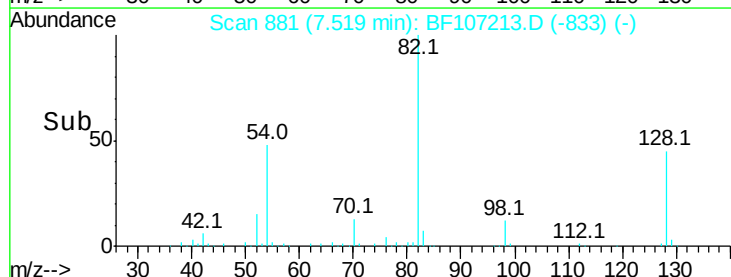
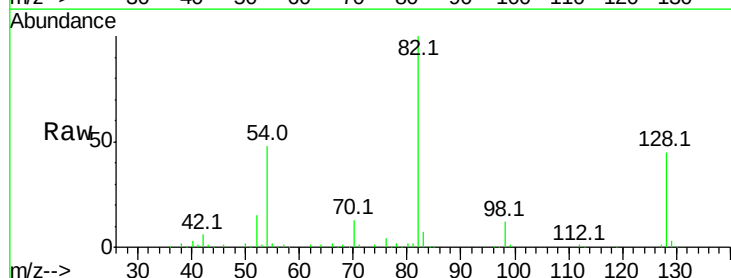
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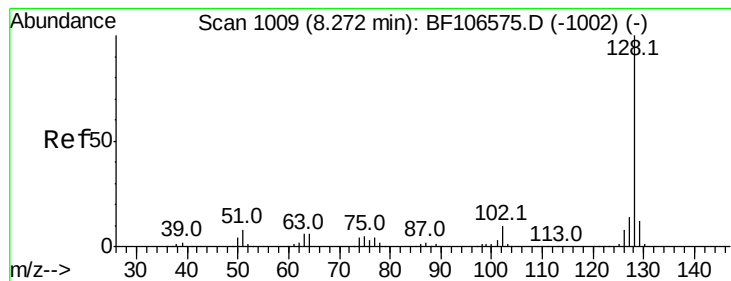
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#23
Nitrobenzene-d5
Concen: 71.315 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.4	36.1	54.1	
54	47.8	41.4	62.2	





#31

Naphthalene

Concen: 4.264 ng

RT: 8.25 min Scan# 1006

Delta R.T. -0.02 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Instrument :

BNA_F

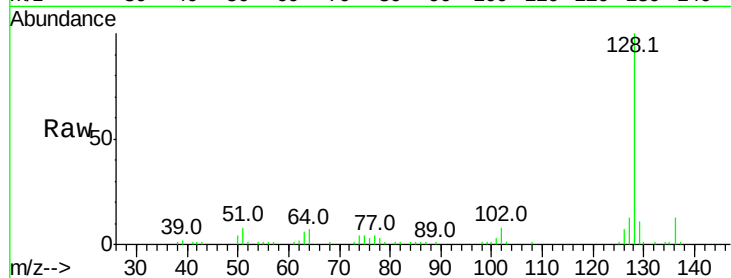
ClientSampleId :

SURCHARGE-SP-12

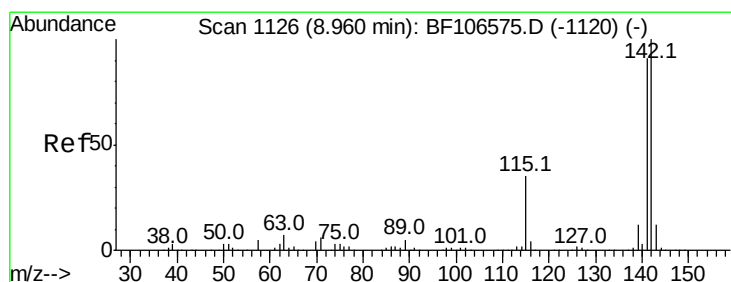
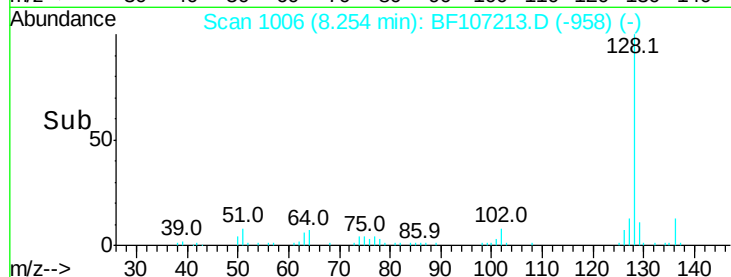
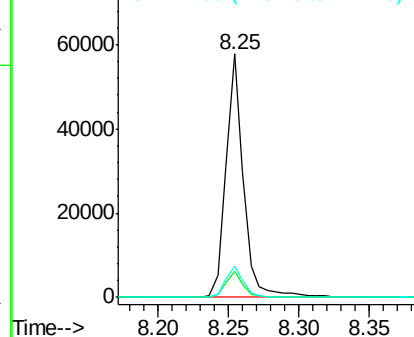
Tot Ion:	128	Resp:	49592
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	12.6	10.9	16.3

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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: 2.392 ng

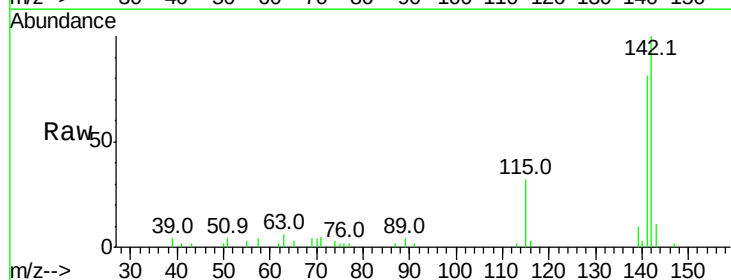
RT: 8.95 min Scan# 1124

Delta R.T. -0.01 min

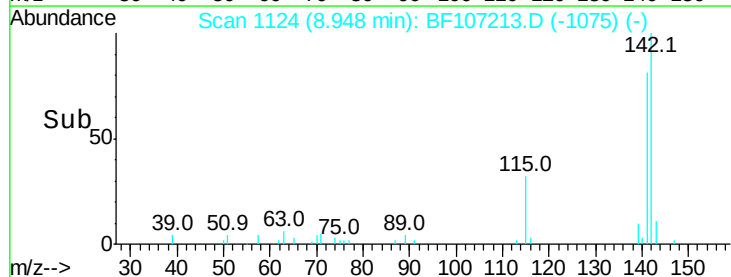
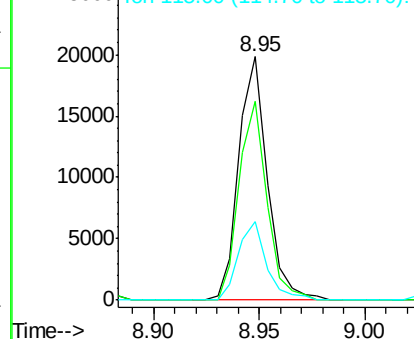
Lab File: BF107213.D

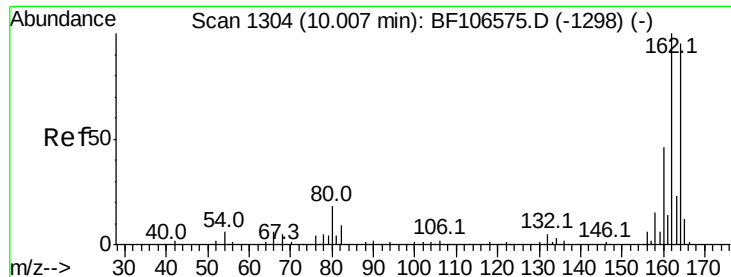
Acq: 7 Jul 2018 18:13

Tgt Ion:	142	Resp:	18441
Ion Ratio	Lower	Upper	
142	100		
141	81.4	70.8	106.2
115	32.0	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





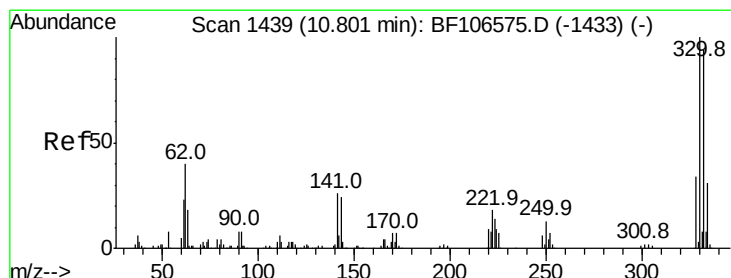
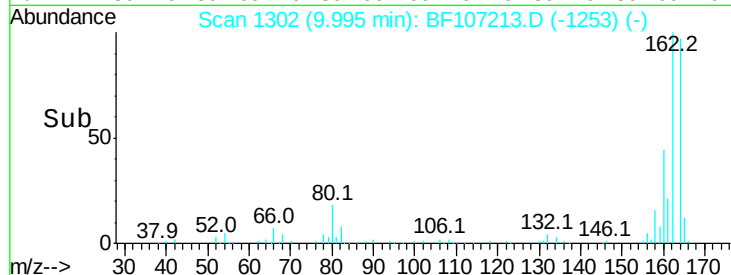
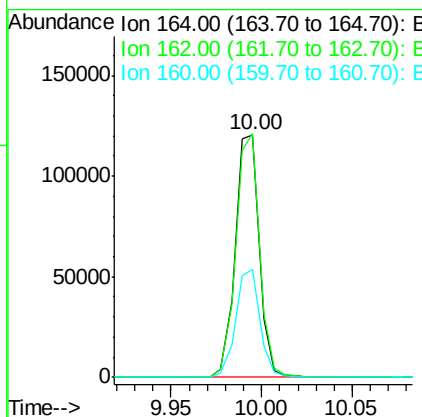
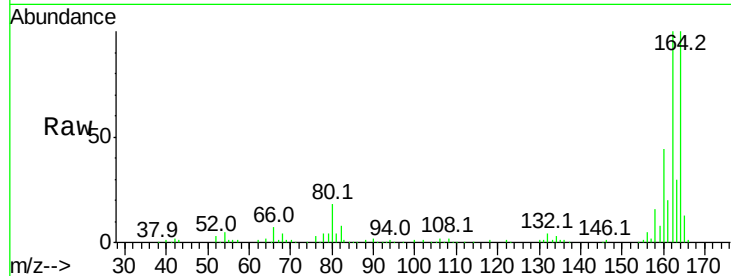
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.5	86.1	129.1	
160	44.4	38.3	57.5	

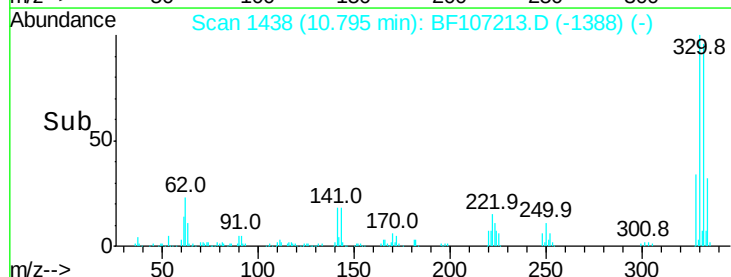
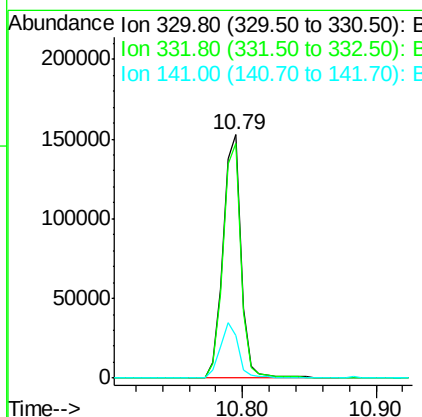
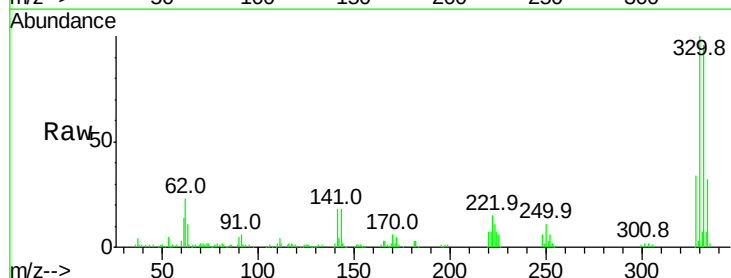
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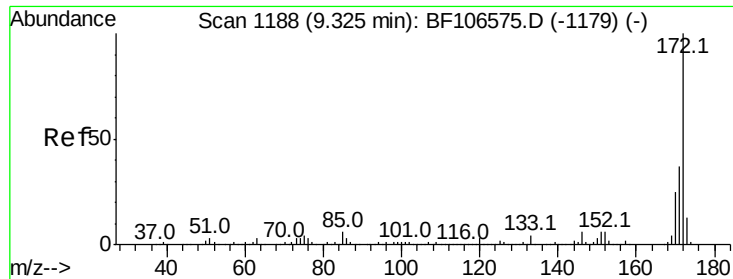
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#41
2,4,6-Tribromophenol
Concen: 114.041 ng
RT: 10.79 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	77.0	115.6	
141	23.9	29.9	44.9#	





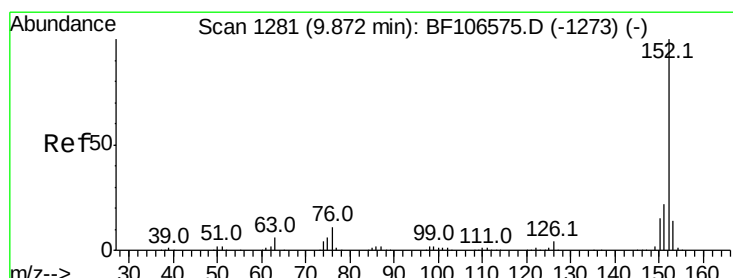
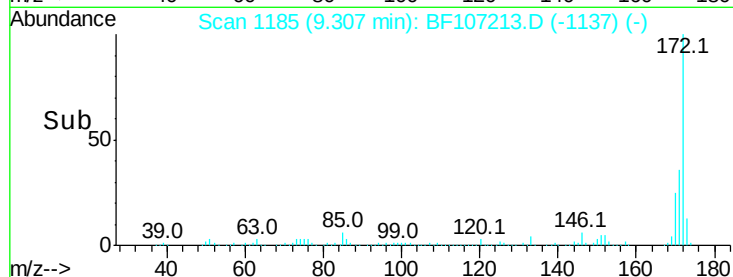
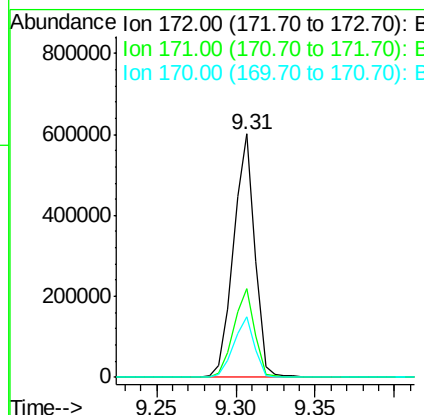
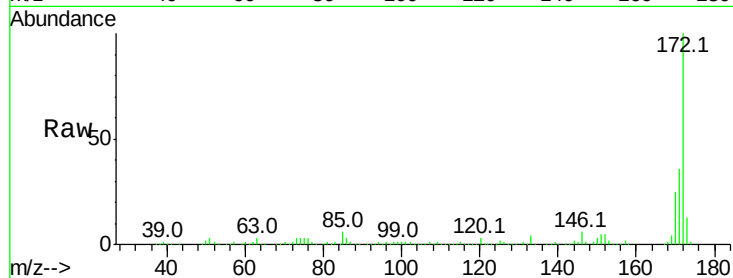
#44
 2-Fluorobiphenyl
 Concen: 84.592 ng
 RT: 9.31 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Instrument :
 BNA_F
 ClientSampleId :
 SURCHARGE-SP-12

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.7	44.5
170	24.7	19.6	29.4

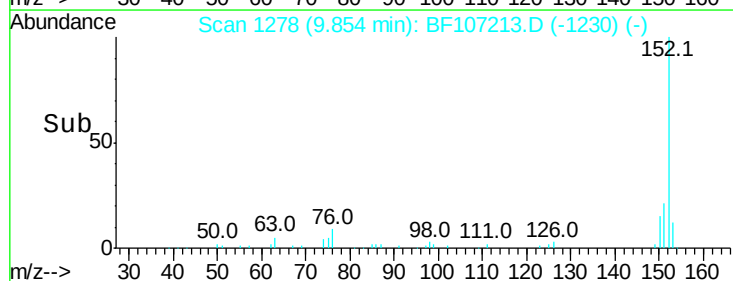
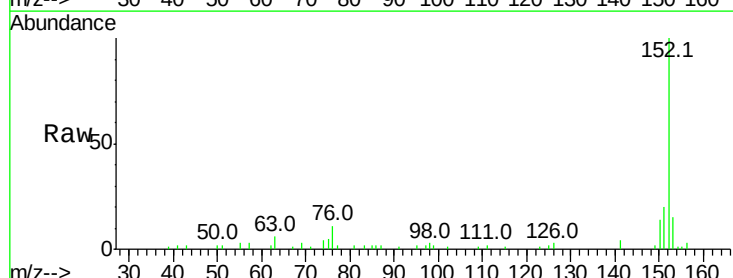
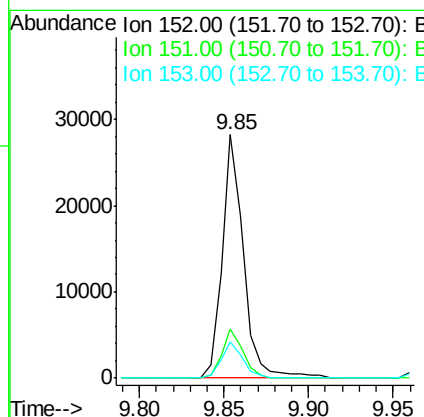
Manual Integrations
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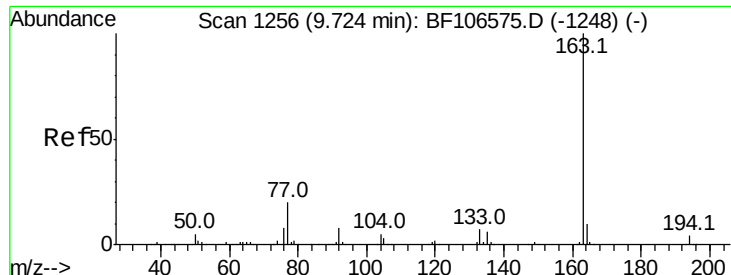
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#48
 Acenaphthylene
 Concen: 2.249 ng
 RT: 9.85 min Scan# 1278
 Delta R.T. -0.02 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	14.9	10.7	16.1





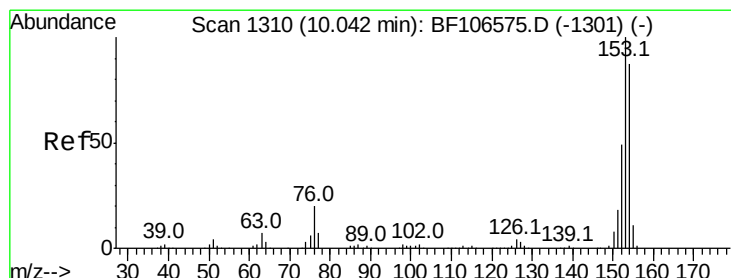
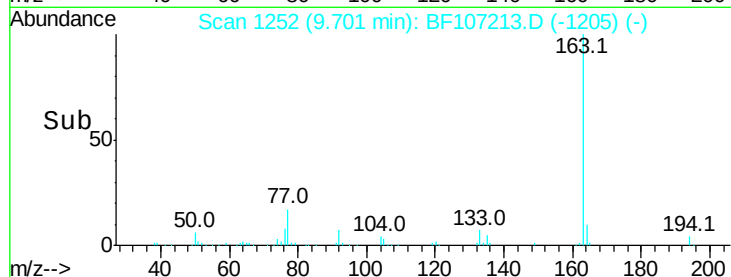
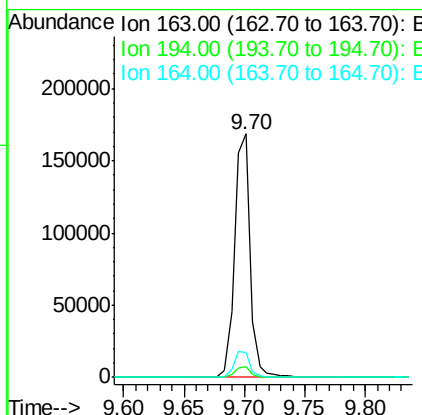
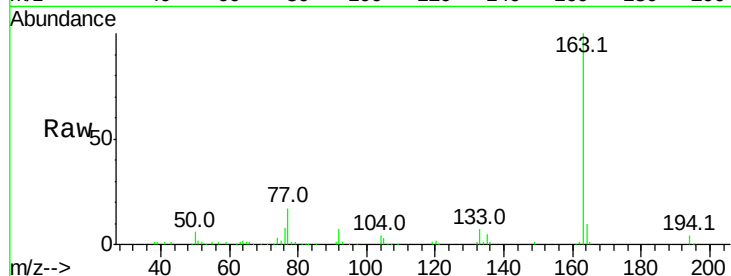
#49
Dimethylphthalate
Concen: 18.137 ng
RT: 9.70 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.3	2.7	4.1#	
164	10.4	8.2	12.2	

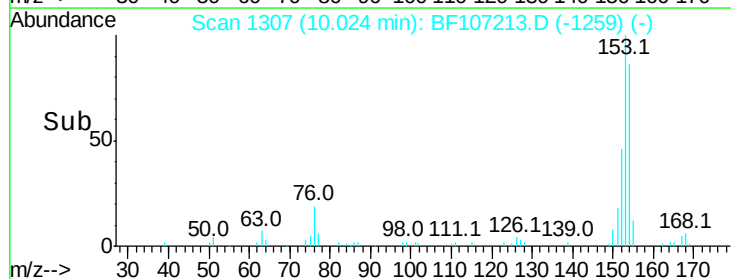
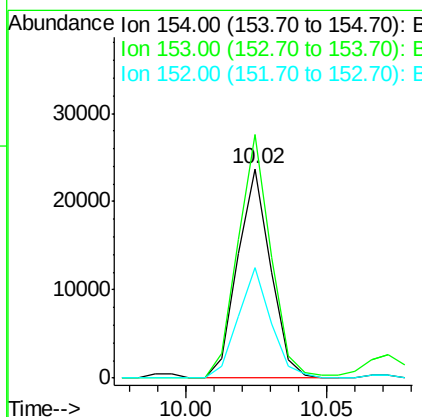
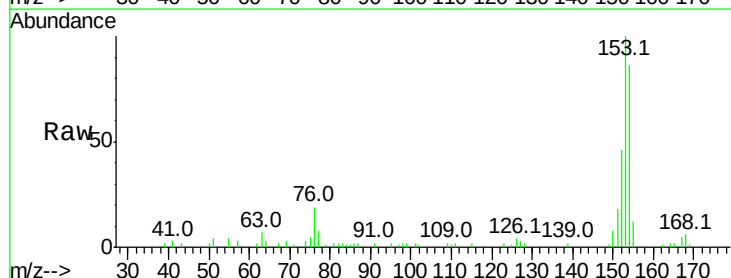
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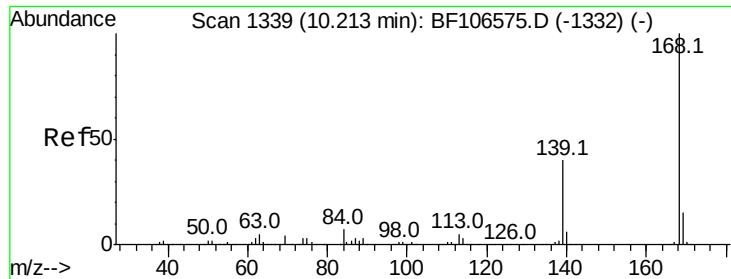
Sohil
7/9/2018 2:06:44 PM



#51
Acenaphthene
Concen: 2.762 ng
RT: 10.02 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	116.2	91.2	136.8	
152	53.0	43.8	65.8	





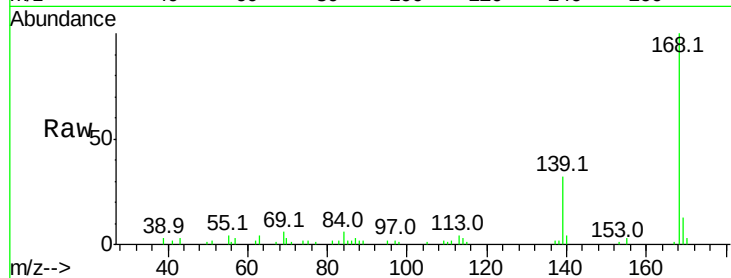
#54
Dibenzenofuran
Concen: 3.117 ng
RT: 10.20 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Lower	Upper
168	100		
139	31.6	30.1	45.1
169	12.8	10.9	16.3

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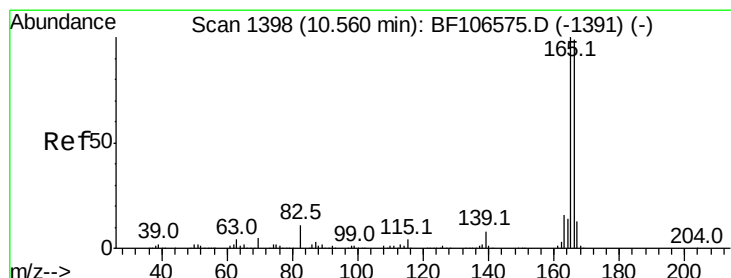
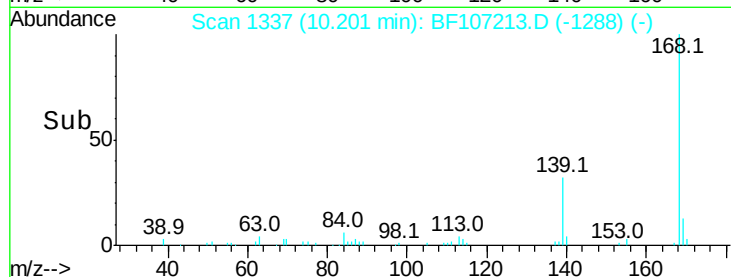
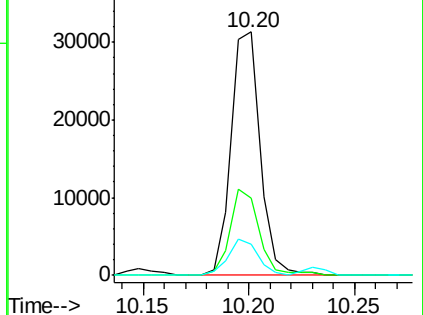


Abundance

Ion 168.00 (167.70 to 168.70): E

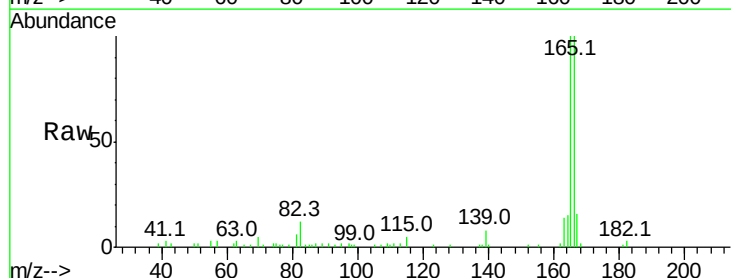
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 3.925 ng
RT: 10.54 min Scan# 1395
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	15.6	10.6	16.0

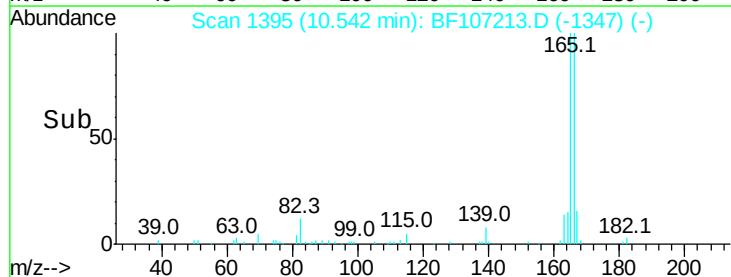
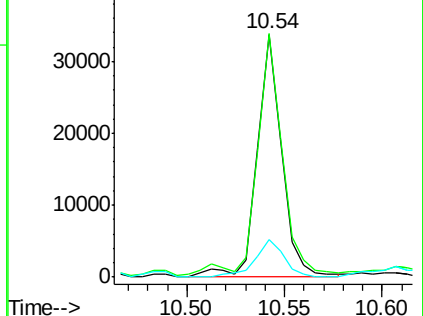


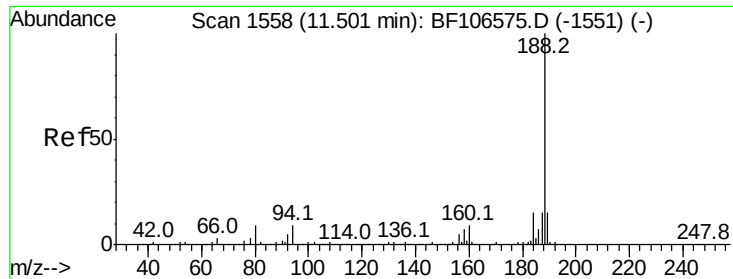
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





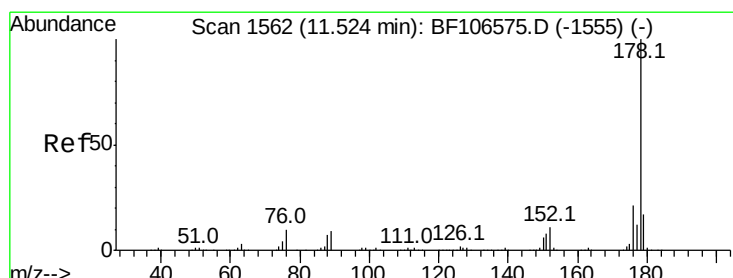
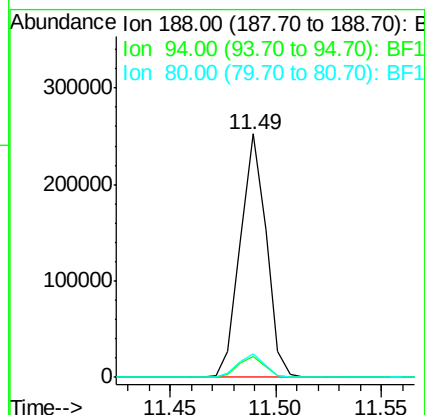
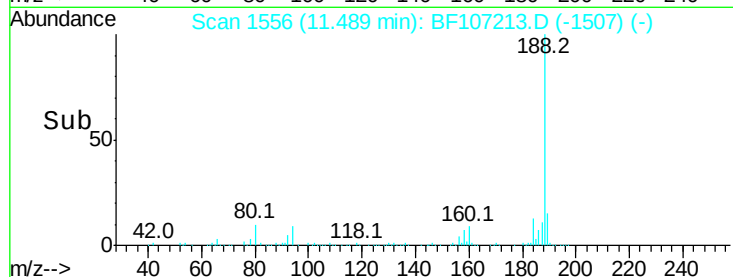
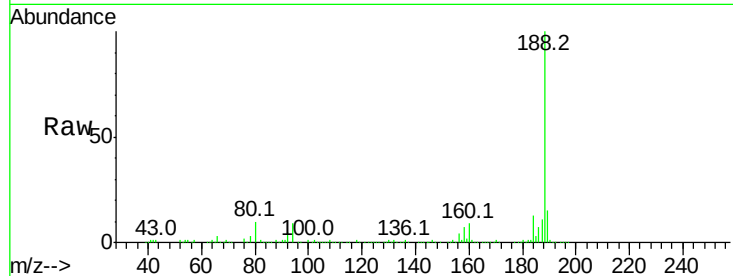
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion:	188	Resp:	214681
Ion Ratio	Lower	Upper	
188	100		
94	8.8	8.5	12.7
80	9.7	9.2	13.8

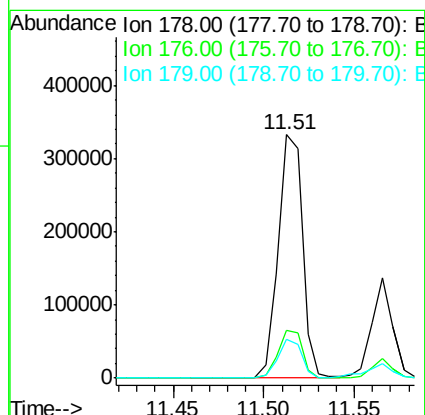
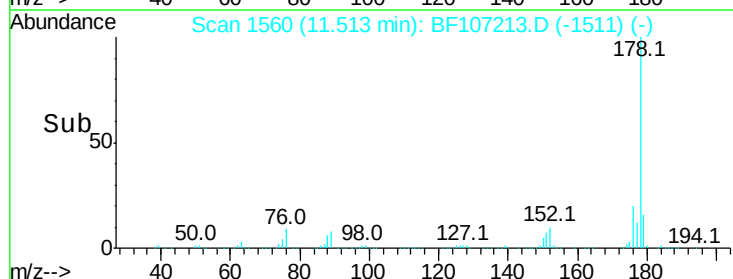
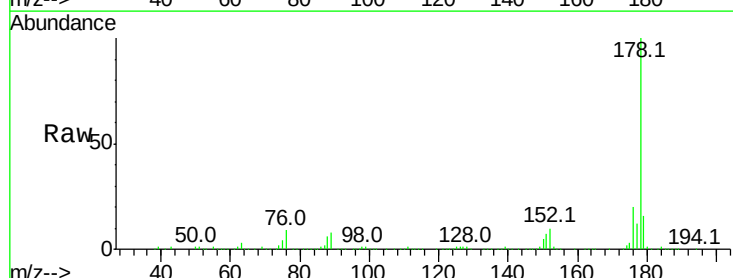
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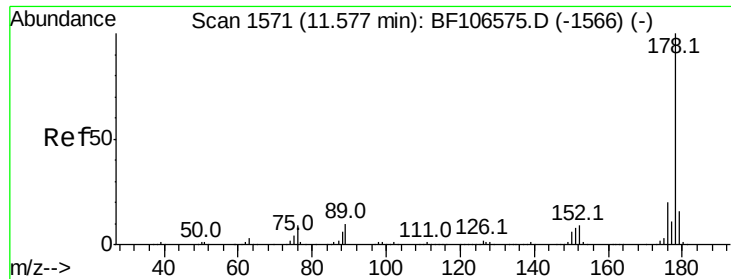
Sohil
7/9/2018 2:06:44 PM



#70
Phenanthrene
Concen: 29.929 ng
RT: 11.51 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion:	178	Resp:	309896
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.8	23.8
179	16.0	13.0	19.6





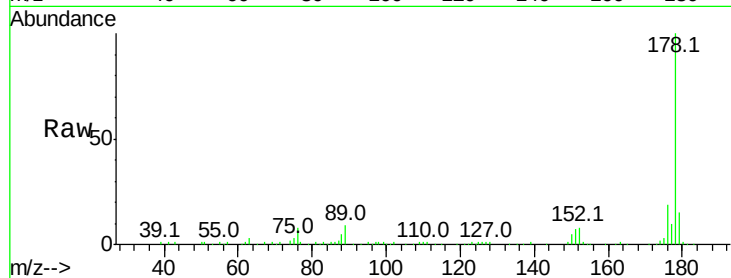
#71
 Anthracene
 Concen: 10.107 ng
 RT: 11.57 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Instrument :
 BNA_F
 ClientSampleId :
 SURCHARGE-SP-12

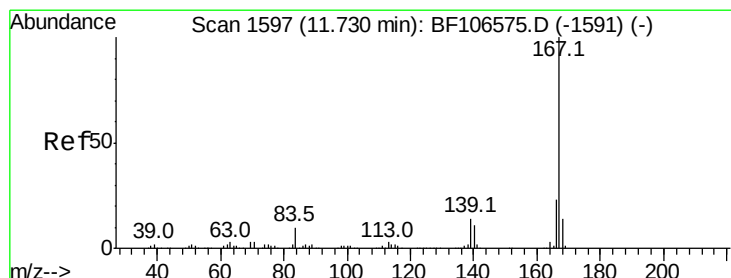
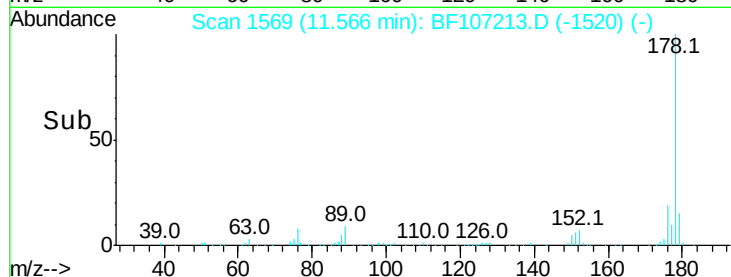
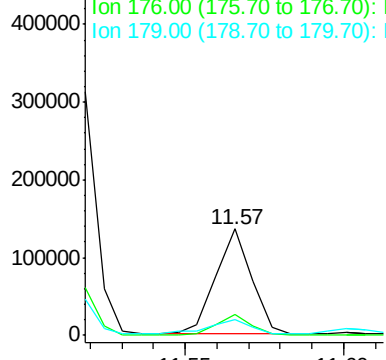
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	19.0

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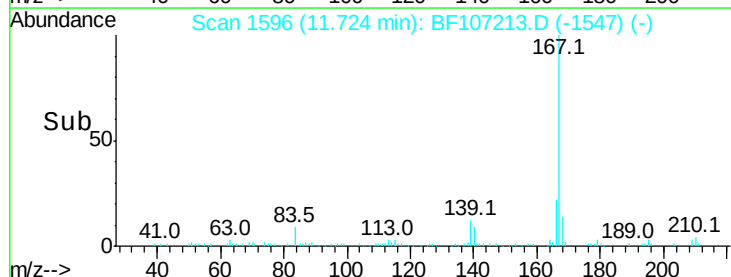
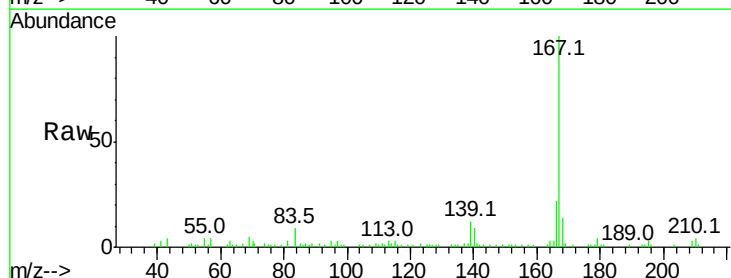
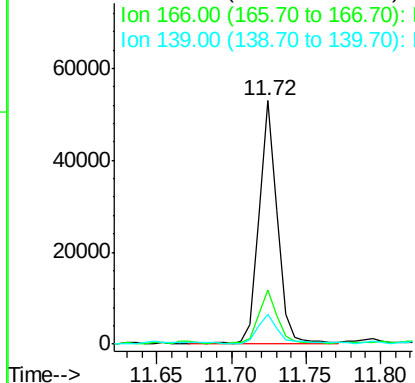
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

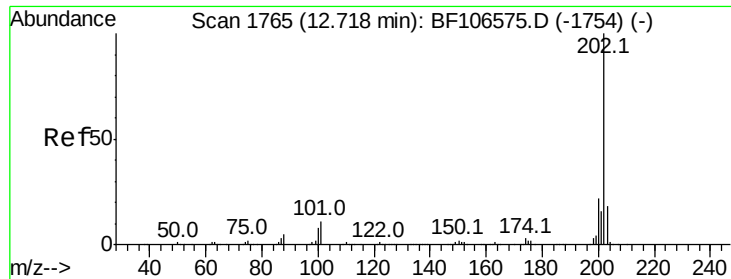


#72
 Carbazole
 Concen: 4.512 ng
 RT: 11.72 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.6	26.4
139	12.2	10.9	16.3

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 44.452 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Instrument :

BNA_F

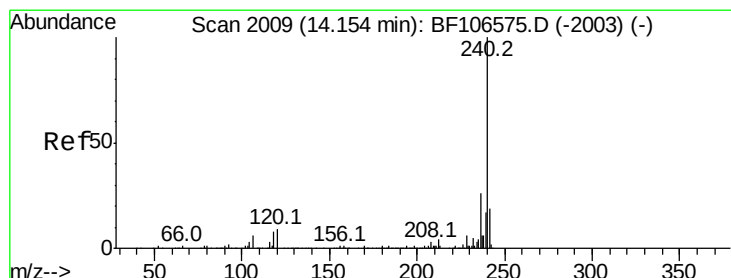
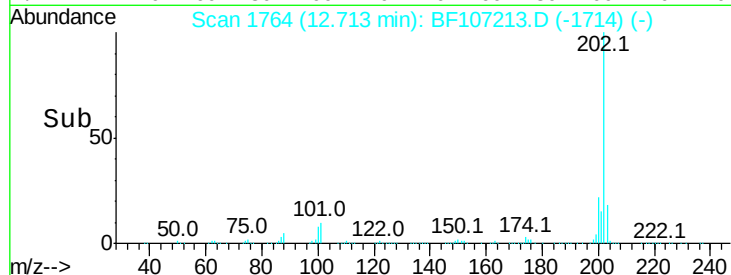
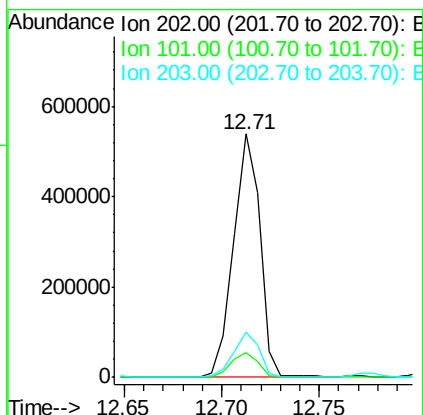
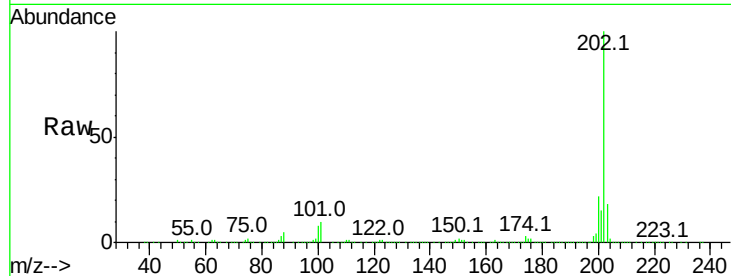
ClientSampleId :

SURCHARGE-SP-12

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.4	0.0	34.1
203	18.3	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

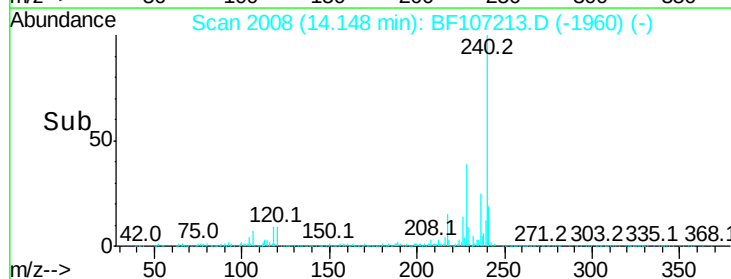
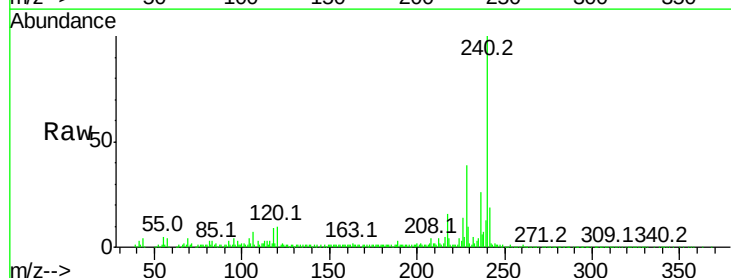
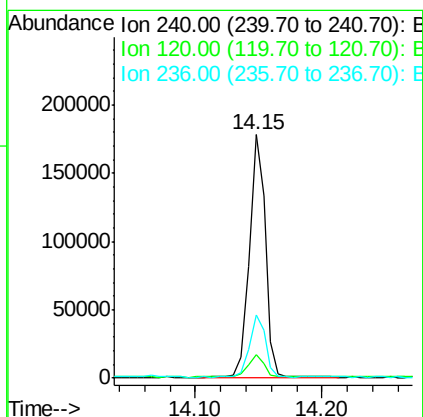
RT: 14.15 min Scan# 2008

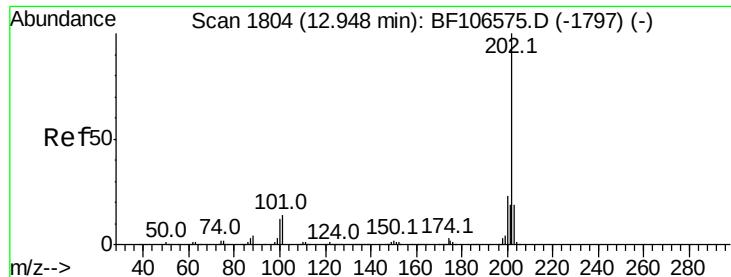
Delta R.T. -0.02 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.8	9.5	14.3
236	25.8	20.7	31.1





#77

Pvrene

Concen: 45.838 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.00 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Instrument :

BNA_F

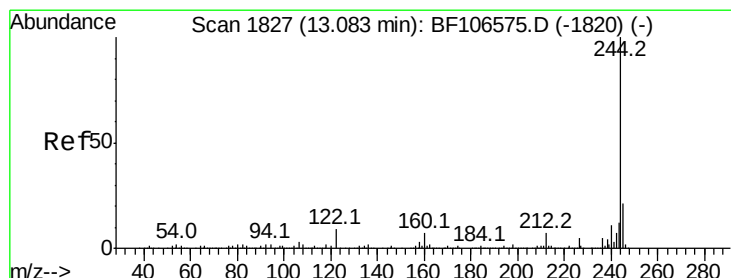
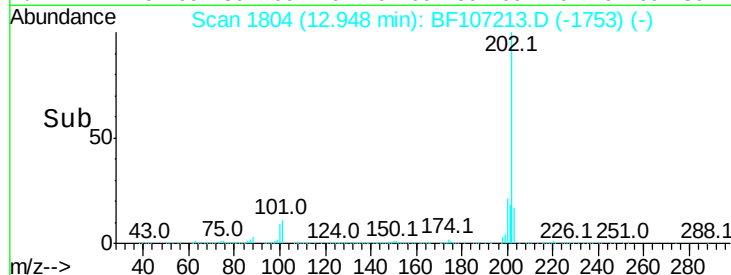
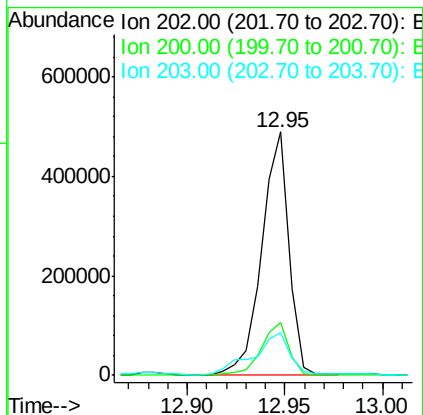
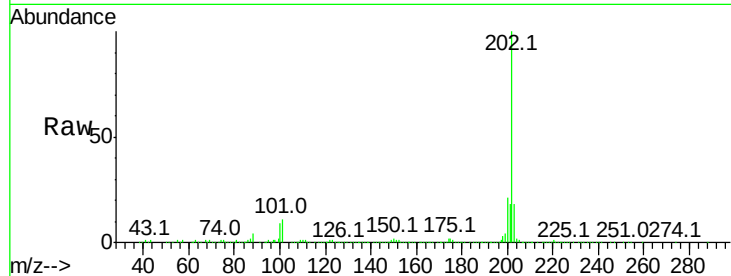
ClientSampleId :

SURCHARGE-SP-12

Tot Ion:	202	Resp:	470240
Ion Ratio		Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.7	14.3	21.5

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#78

Terphenyl-d14

Concen: 97.877 ng

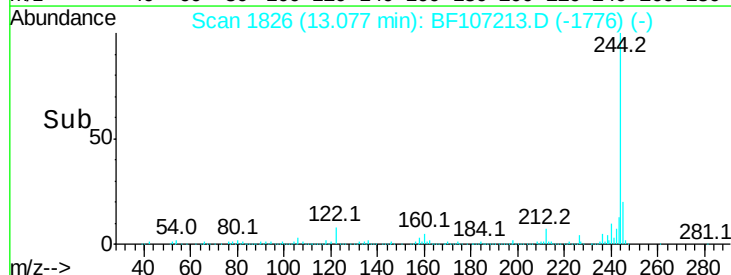
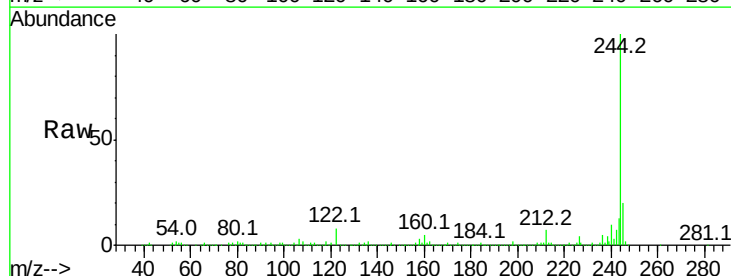
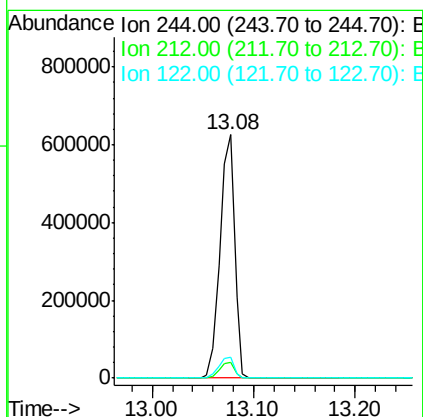
RT: 13.08 min Scan# 1826

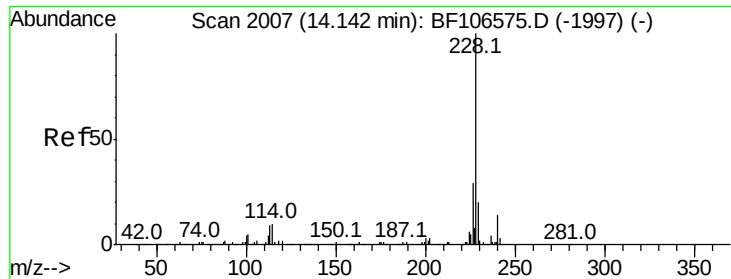
Delta R.T. -0.01 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Tgt Ion:	244	Resp:	628598
Ion Ratio		Lower	Upper
244	100		
212	6.7	5.4	8.0
122	8.5	11.0	16.4#





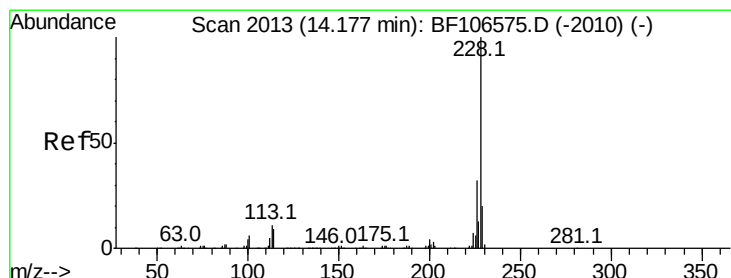
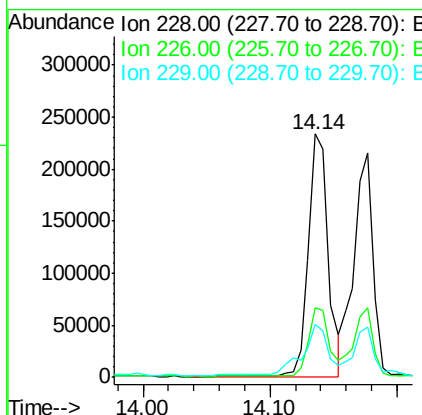
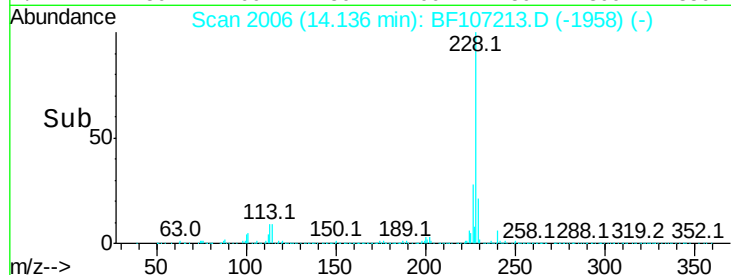
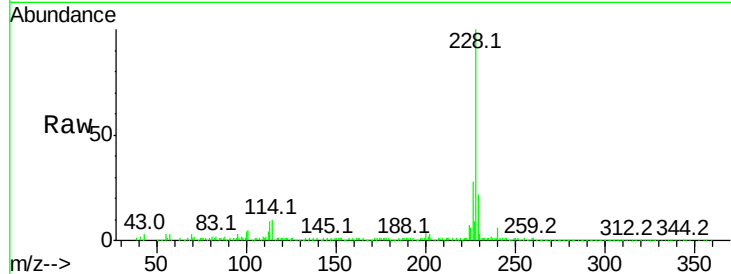
#80
Benzo(a)anthracene
Concen: 26.538 ng
RT: 14.14 min Scan# 2006
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	21.6	15.8	23.6

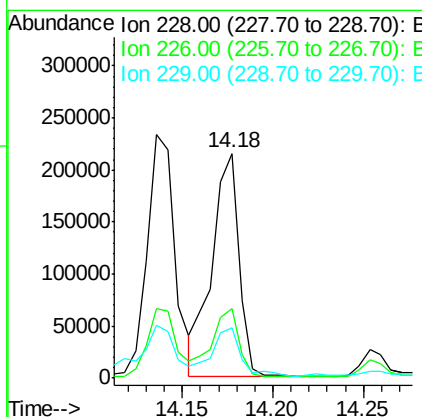
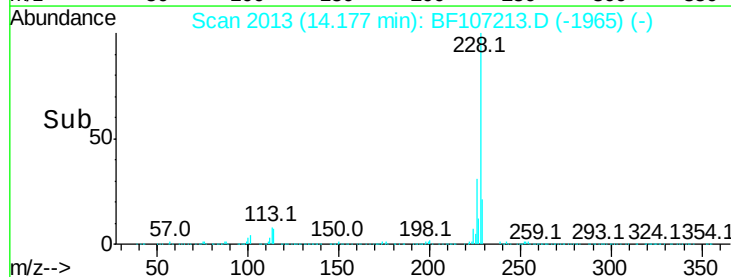
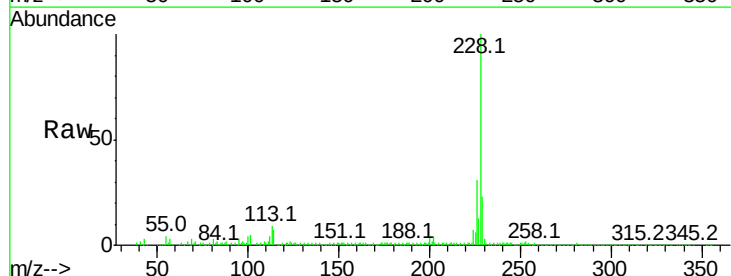
Manual Integrations
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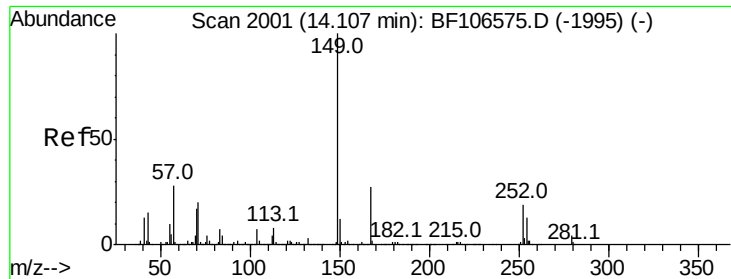
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#82
Chrysene
Concen: 25.817 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	22.6	16.2	24.4





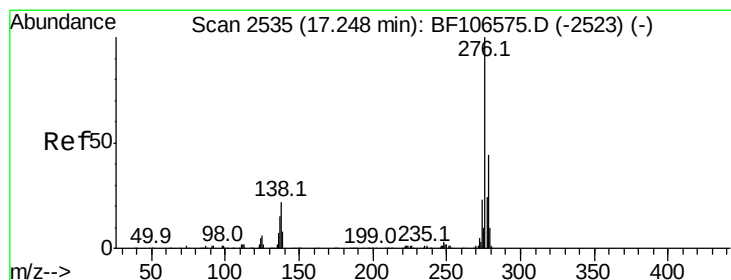
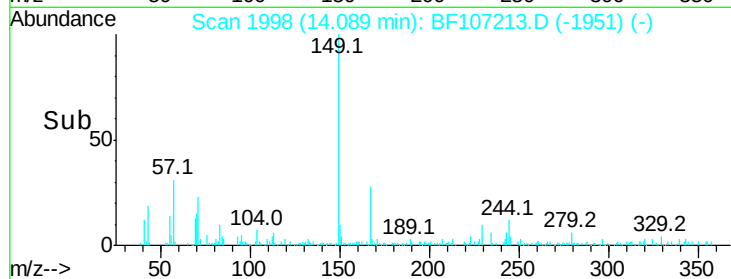
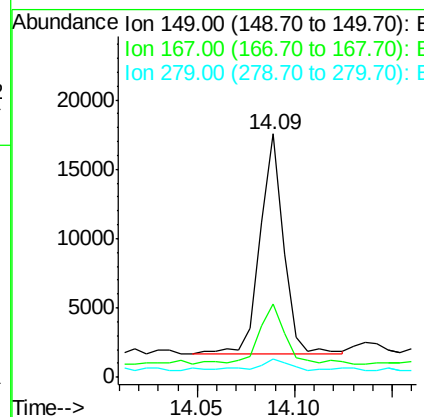
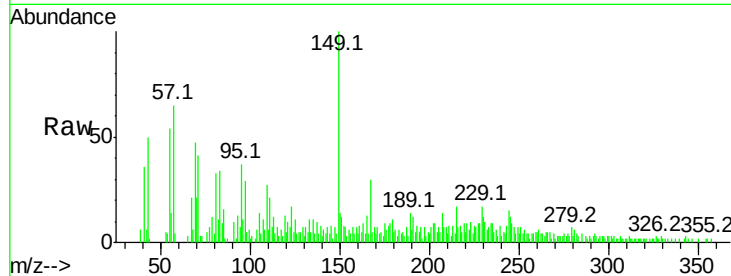
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.498 ng
 RT: 14.09 min Scan# 1998
 Delta R.T. -0.02 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Instrument :
 BNA_F
 ClientSampleId :
 SURCHARGE-SP-12

Tot Ion	Ratio	Lower	Upper
149	100		
167	29.9	21.3	31.9
279	7.5	3.0	4.4

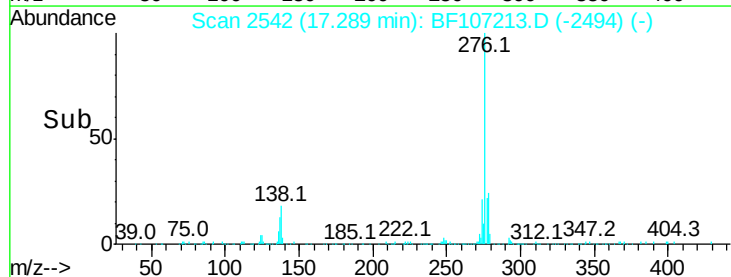
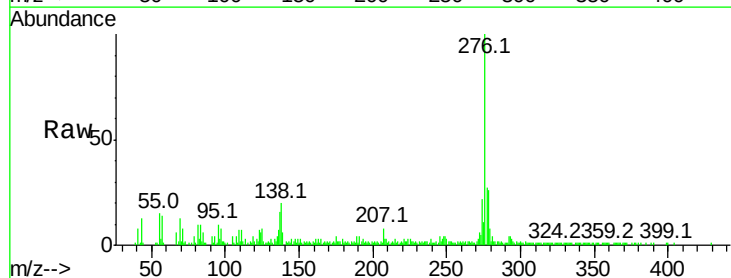
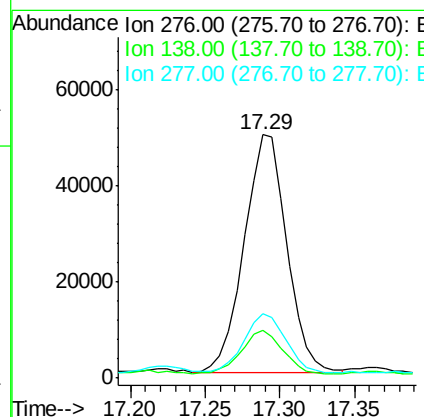
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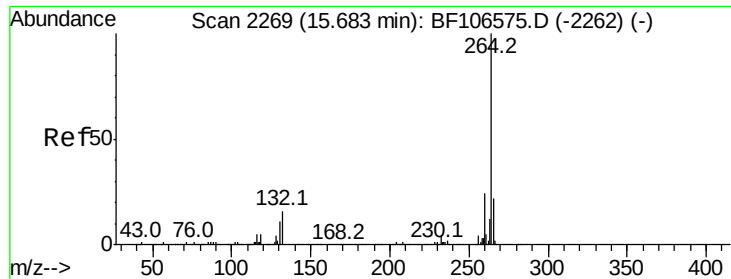
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.185 ng
 RT: 17.29 min Scan# 2542
 Delta R.T. -0.02 min
 Lab File: BF107213.D
 Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.7	25.0	37.6
277	24.3	20.1	30.1





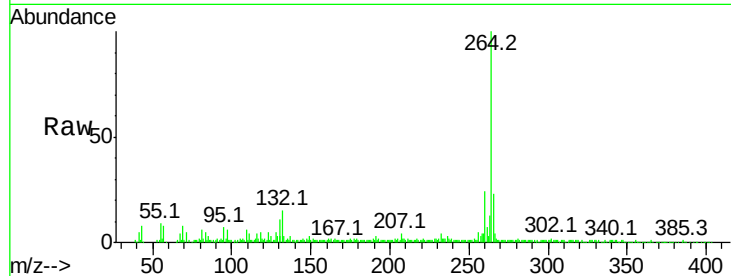
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

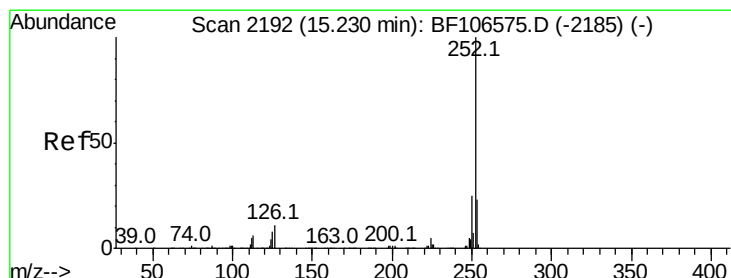
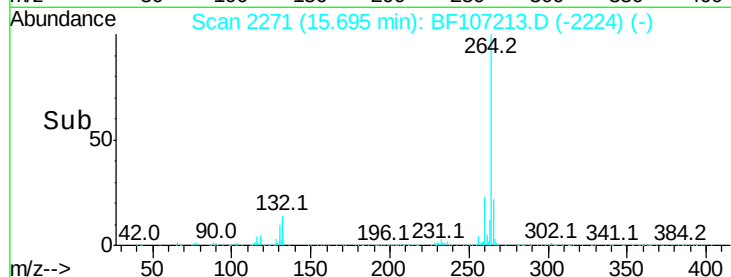
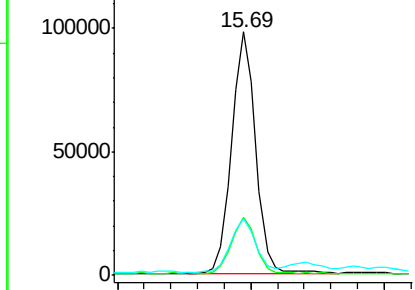
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	23.3	17.5	26.3

Manual Integrations
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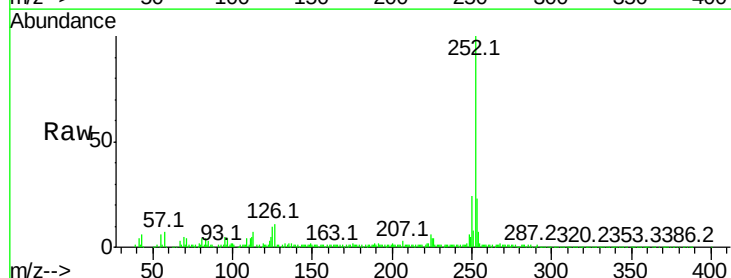


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

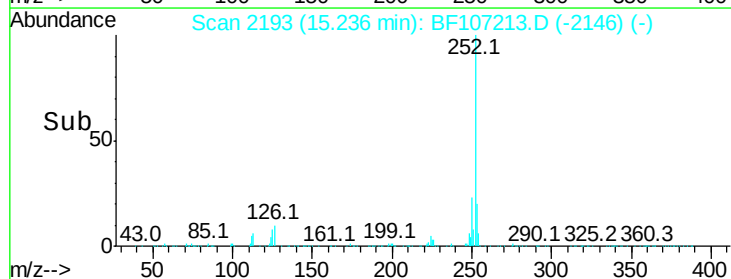
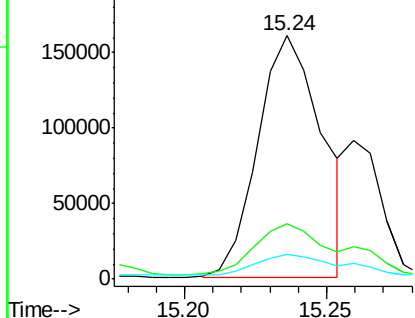


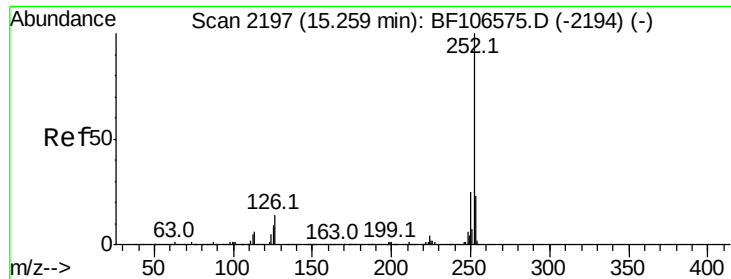
#87
Benzo(b)fluoranthene
Concen: 32.625 ng m
RT: 15.24 min Scan# 2193
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	9.9	9.0	13.6



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





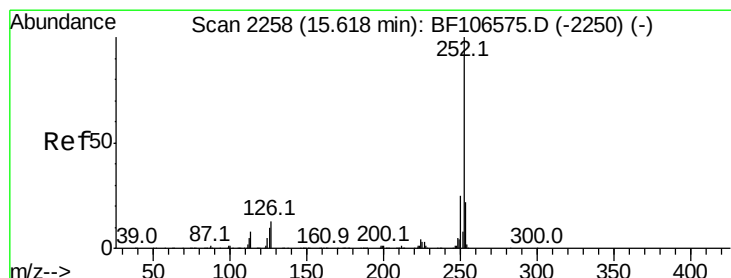
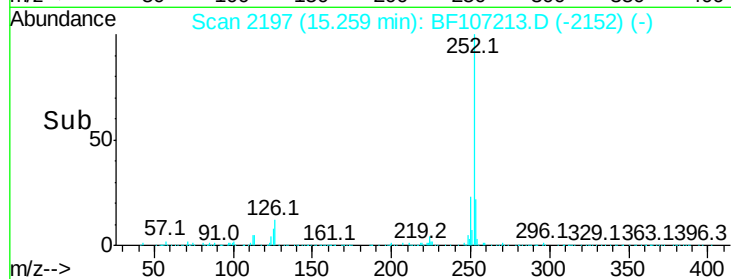
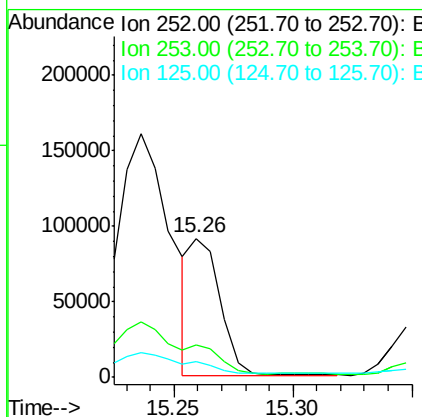
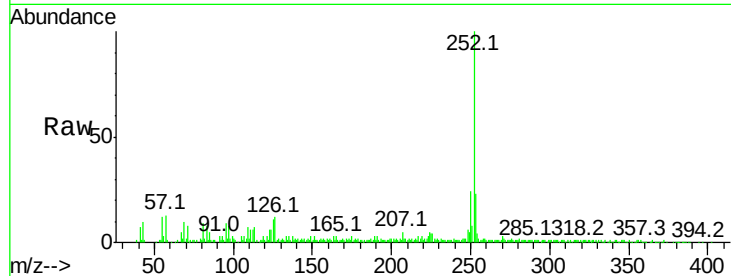
#88
Benzo(k)fluoranthene
Concen: 10.854 ng m
RT: 15.26 min Scan# 2197
Delta R.T. -0.04 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-12

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	11.3	10.2	15.2

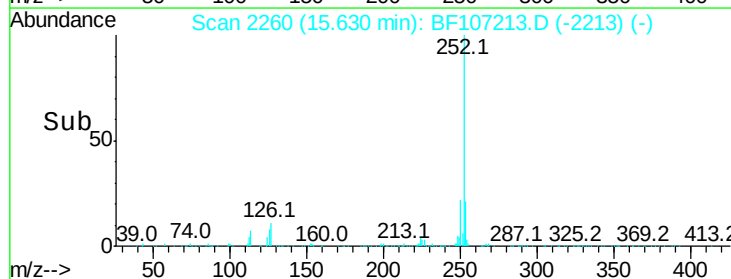
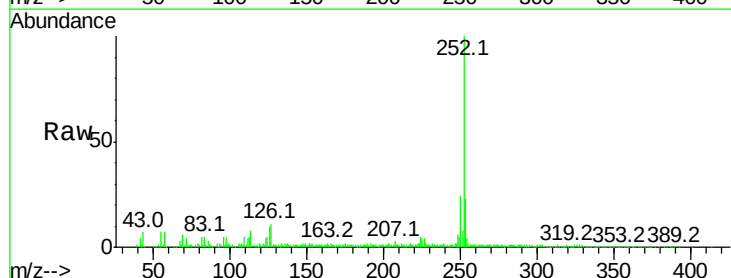
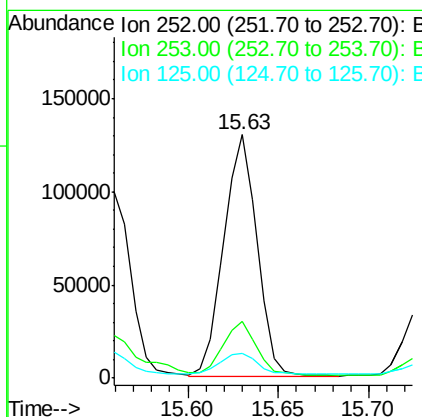
Manual Integrations
APPROVED

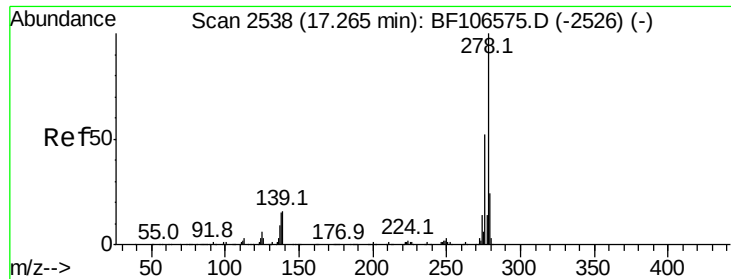
Sohil
7/9/2018 2:06:44 PM



#89
Benzo(a)pyrene
Concen: 24.475 ng
RT: 15.63 min Scan# 2260
Delta R.T. -0.02 min
Lab File: BF107213.D
Acq: 7 Jul 2018 18:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	9.9	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.825 ng

RT: 17.29 min Scan# 2542

Delta R.T. -0.04 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Instrument :

BNA_F

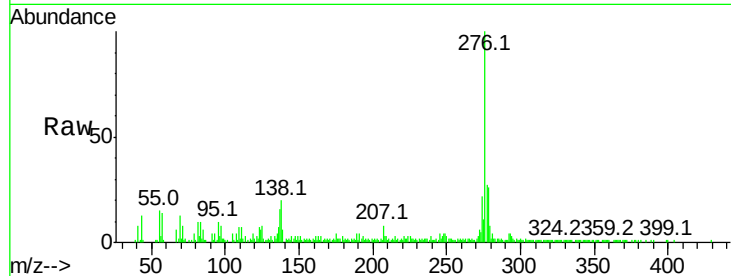
ClientSampleId :

SURCHARGE-SP-12

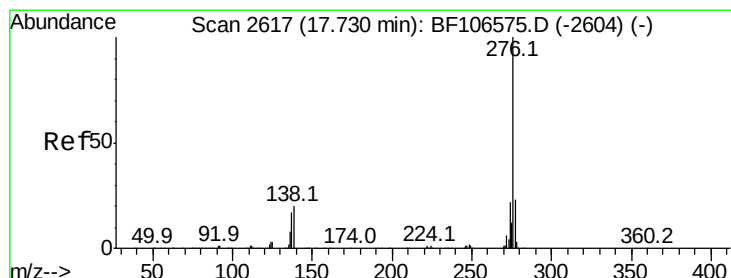
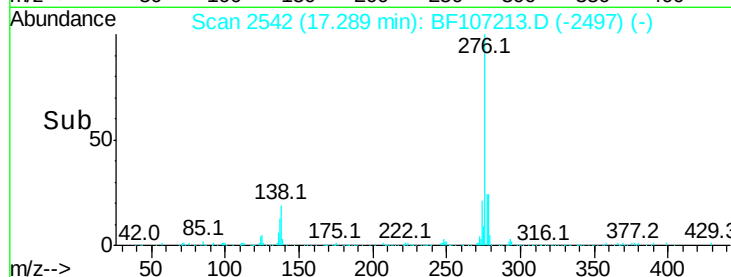
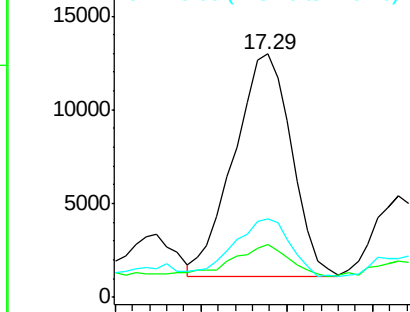
Tot Ion:278	Resp:	27724
Ion Ratio	Lower	Upper
278	100	
139	21.5	15.9 23.9
279	32.0	19.0 28.4#

Manual Integrations
APPROVED

Sohil
7/9/2018 2:06:44 PM



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: 16.985 ng

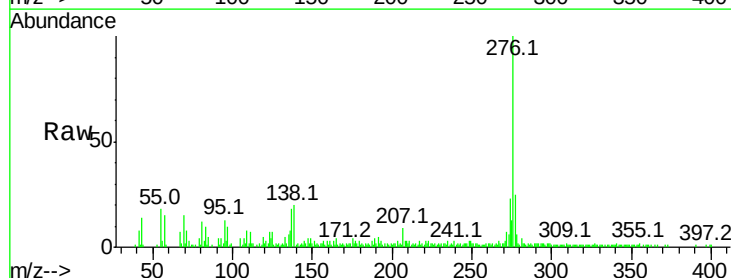
RT: 17.78 min Scan# 2626

Delta R.T. -0.01 min

Lab File: BF107213.D

Acq: 7 Jul 2018 18:13

Tgt Ion:276	Resp:	95387
Ion Ratio	Lower	Upper
276	100	
277	25.2	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

