

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102746.D
 Acq On : 5 Feb 2018 19:00
 Operator : SJ/JU
 Sample : J1456-04 20X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-6-EW(12-14)

Manual Integrations
 APPROVED

Sohil
 2/6/2018 2:25:40 PM

Quant Time: Feb 06 11:26:20 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	208177	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	798271	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	368877	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	552005	20.00	ng	0.00
75) Chrysene-d12	14.04	240	360372	20.00	ng	0.00
86) Perylene-d12	15.52	264	347301	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	90275	6.59	ng	-0.01
7) Phenol-d6	6.49	99	113383	6.87	ng	-0.01
23) Nitrobenzene-d5	7.44	82	63662	5.53	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	17605	5.93	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	113406	5.10	ng	-0.01
78) Terphenyl-d14	12.99	244	76874	5.05	ng	-0.01
Target Compounds						
22) Acetophenone	7.27	105	330104	16.899	ng	# 60
31) Naphthalene	8.19	128	415473	10.653	ng	# 92
37) 2-Methylnaphthalene	8.87	142	306225	11.992	ng	99
51) Acenaphthene	9.95	154	56919	2.505	ng	100
57) Fluorene	10.46	166	83444	3.582	ng	98
70) Phenanthrene	11.43	178	540314	17.575	ng	100
71) Anthracene	11.48	178	136438	4.363	ng	98
74) Fluoranthene	12.62	202	730645	23.622	ng	99
77) Pyrene	12.84	202	631267	22.339	ng	99
80) Benzo(a)anthracene	14.03	228	331534m	14.628	ng	
82) Chrysene	14.07	228	316214m	13.841	ng	
85) Indeno(1,2,3-cd)pyrene	17.00	276	172384	9.098	ng	95
87) Benzo(b)fluoranthene	15.09	252	438628m	19.480	ng	
88) Benzo(k)fluoranthene	15.11	252	144938m	6.737	ng	
89) Benzo(a)pyrene	15.46	252	291421	14.378	ng	95
90) Dibenzo(a,h)anthracene	17.02	278	43438	2.640	ng	96
91) Benzo(a,h,i)perylene	17.45	276	152709	9.484	ng	95

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

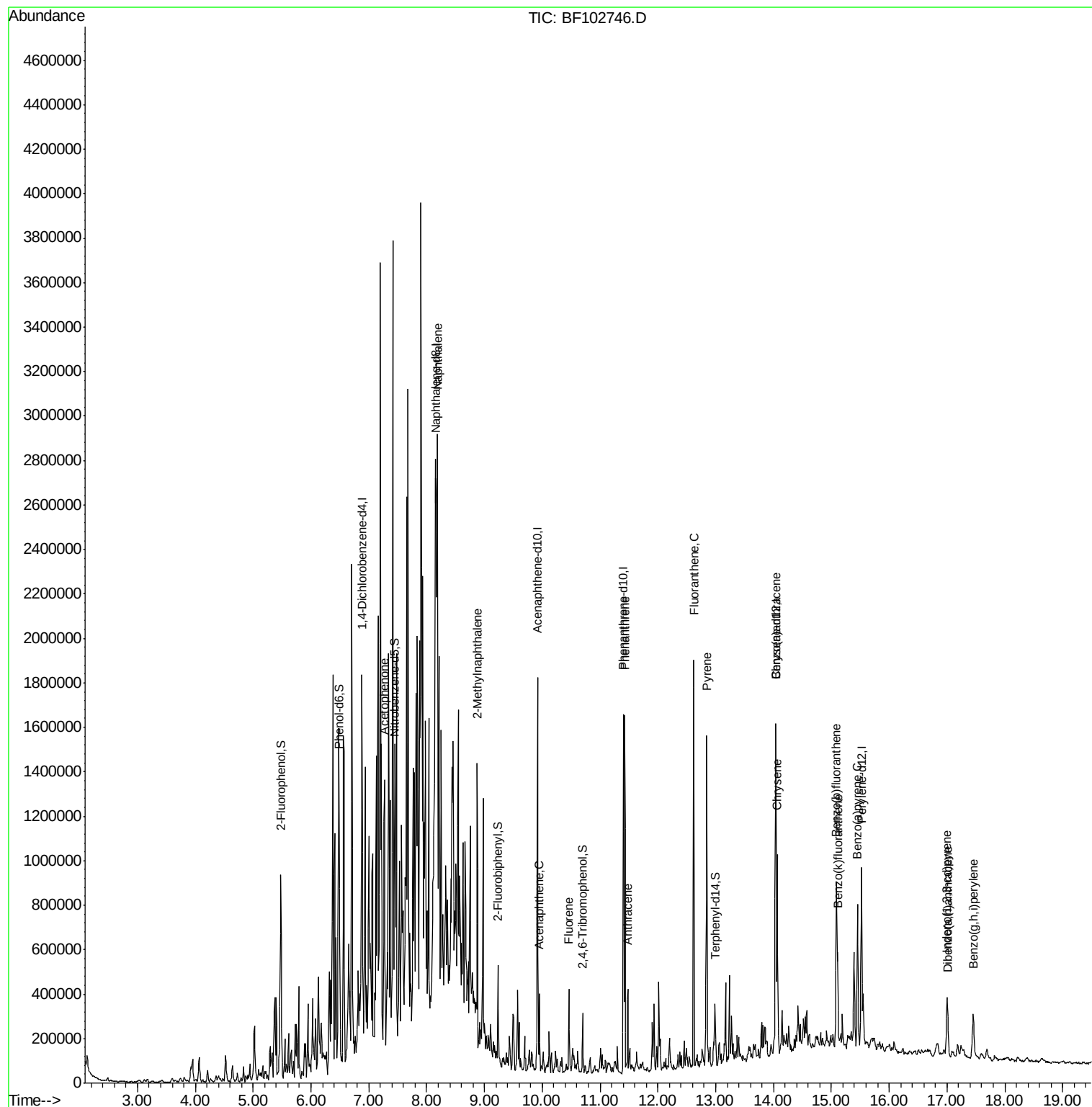
Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
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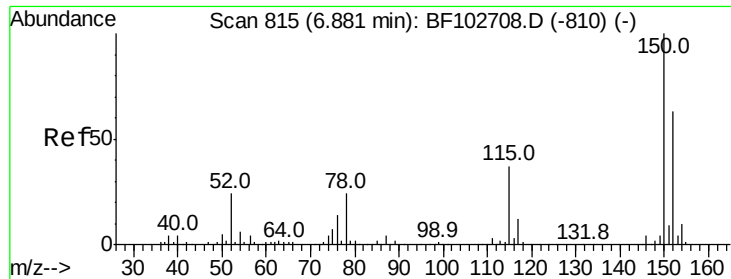
Instrument :
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8-SAN-6-EW(12-14)

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#1

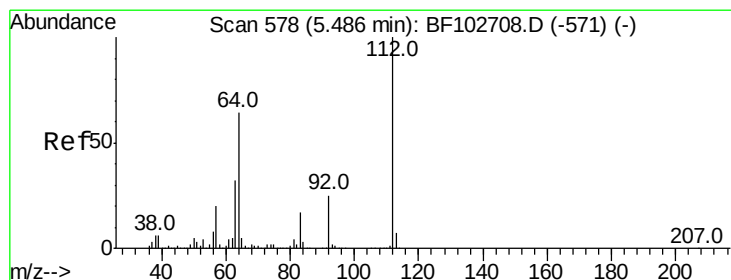
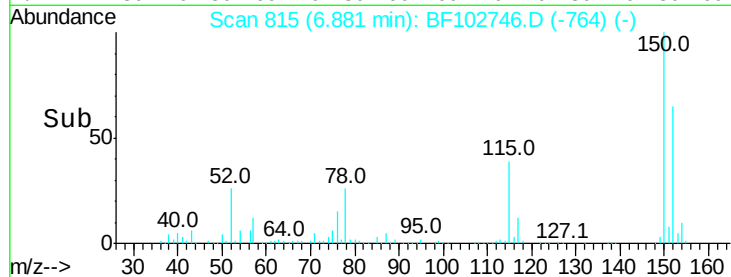
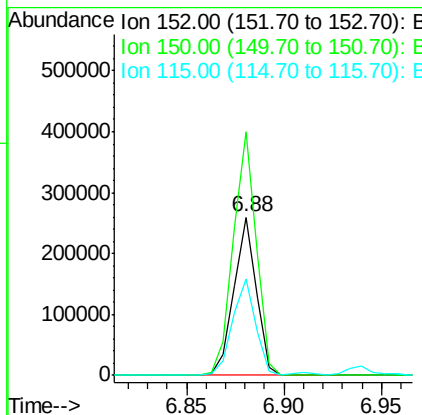
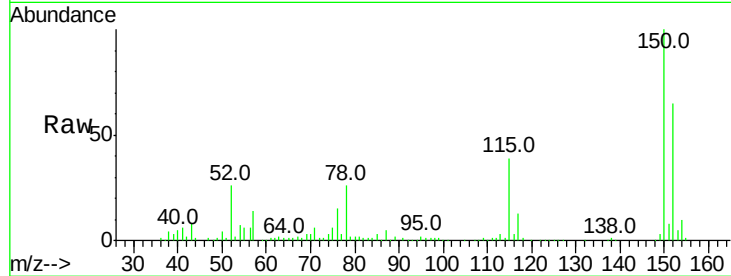
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Instrument :
BNA_F
ClientSampleId :
8-SAN-6-EW(12-14)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.6	186.8
115	60.7	50.1	75.1

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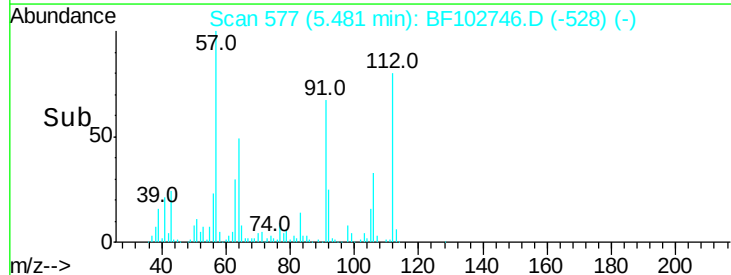
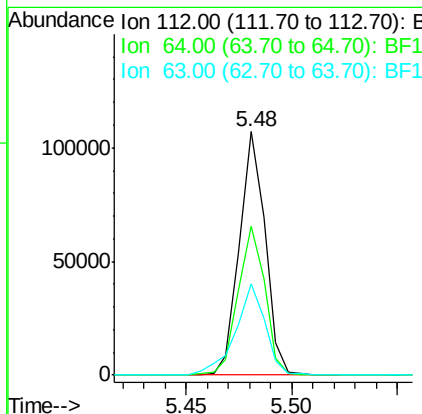
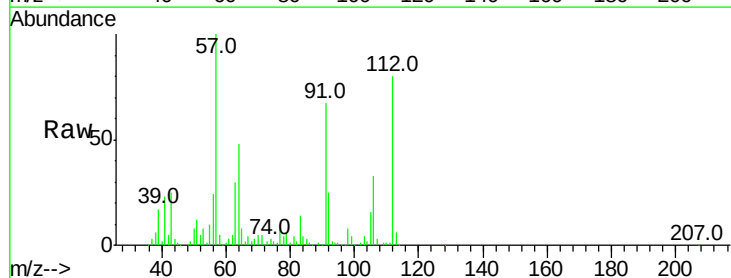
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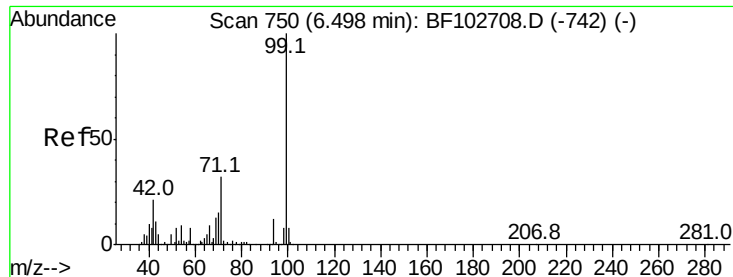


#5

2-Fluorophenol
Concen: 6.586 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	47.9	71.9
63	37.7	23.7	35.5





#7

Phenol-d6

Concen: 6.870 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

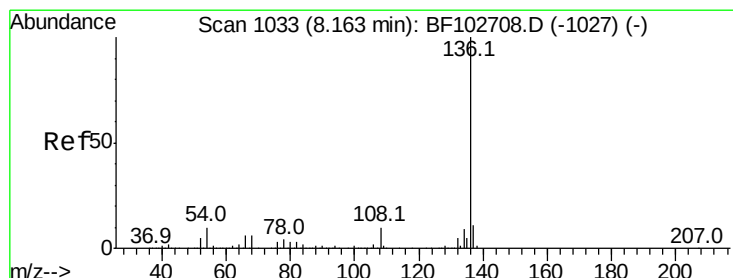
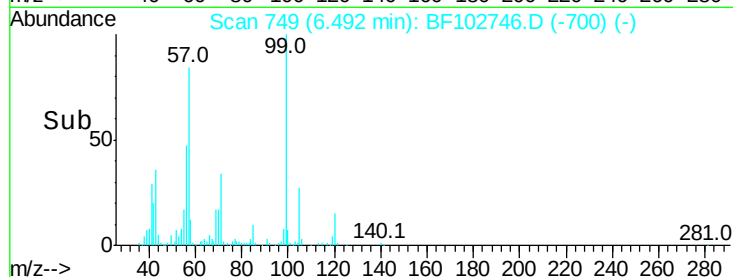
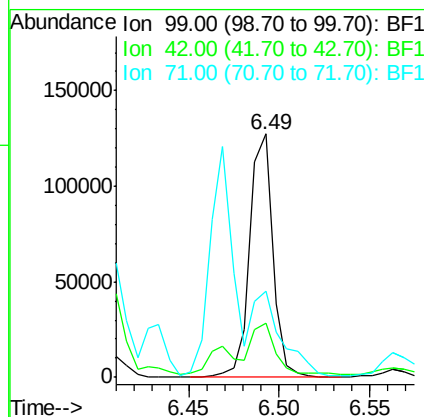
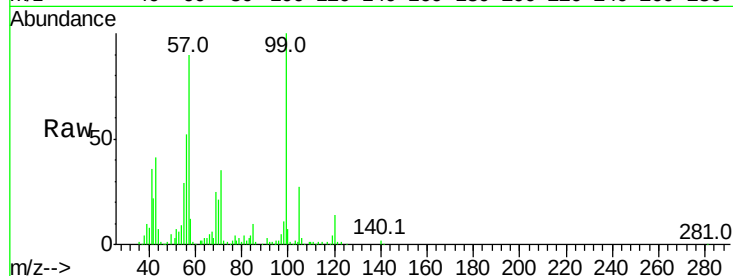
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion:	99	Resp:	113383
Ion Ratio	Lower	Upper	
99	100		
42	22.0	14.5	21.7#
71	35.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

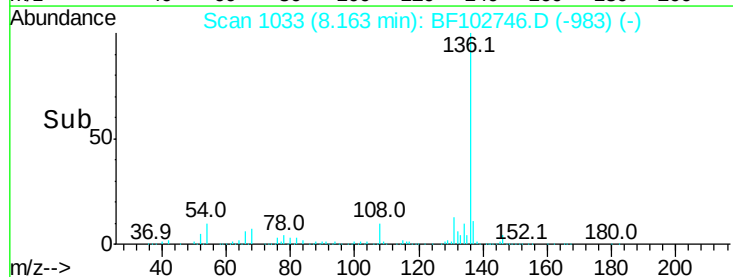
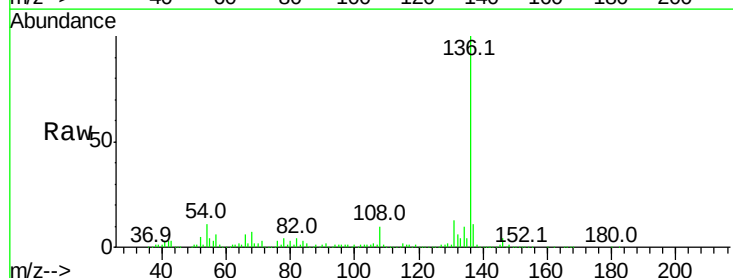
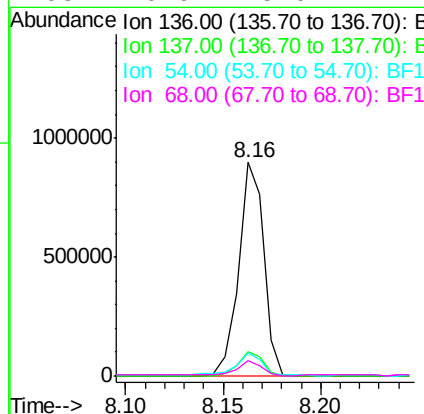
RT: 8.16 min Scan# 1033

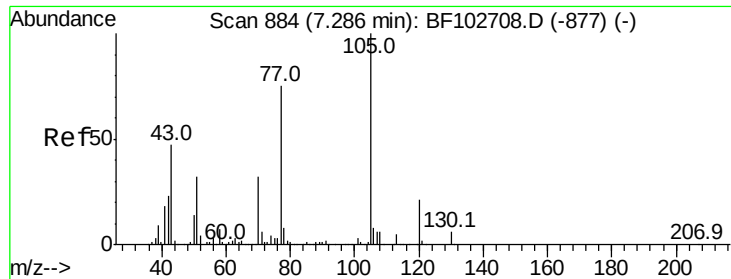
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion:	136	Resp:	798271
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.5	6.6	9.8#
68	6.9	5.0	7.4





#22

Acetophenone

Concen: 16.899 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.02 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

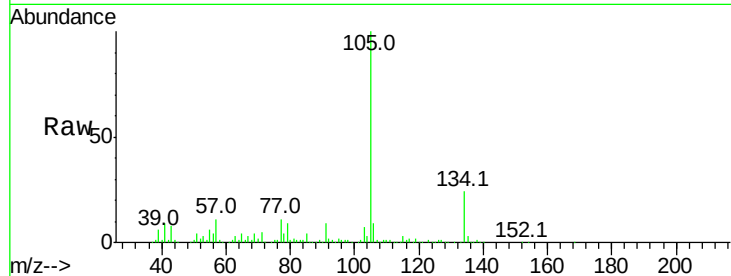
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
71	4.7		4.4	6.6
51	4.5		22.3	33.5#
120	0.2		16.9	25.3#

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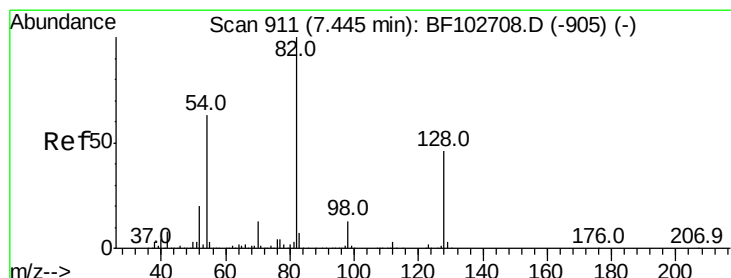
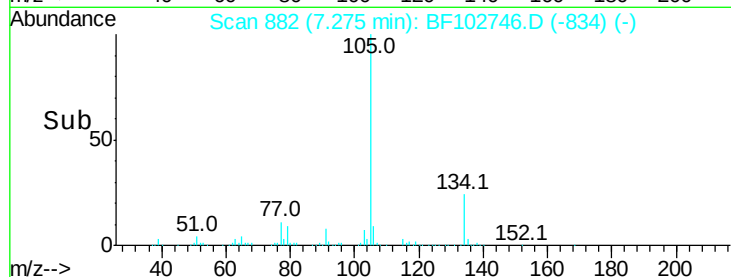
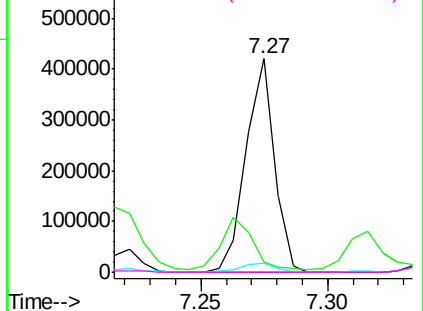


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 5.532 ng

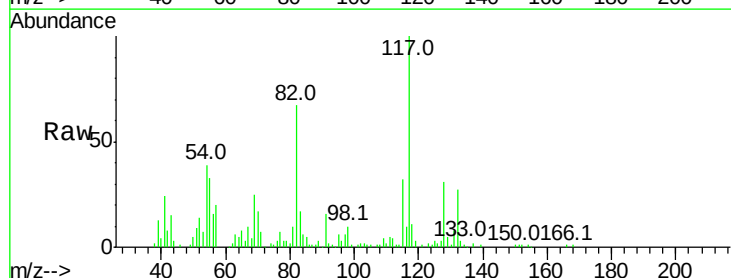
RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

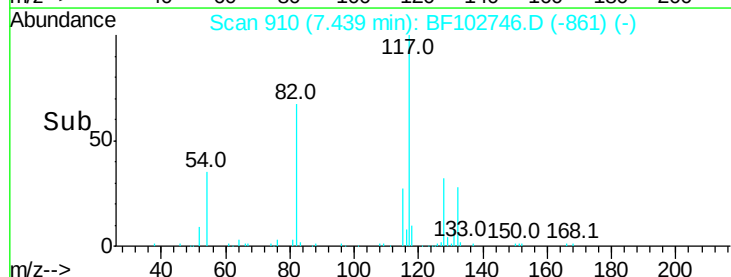
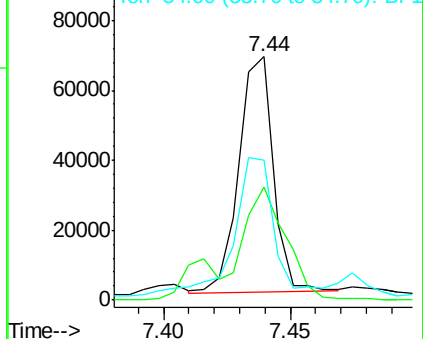
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.6		36.1	54.1
54	57.7		41.4	62.2

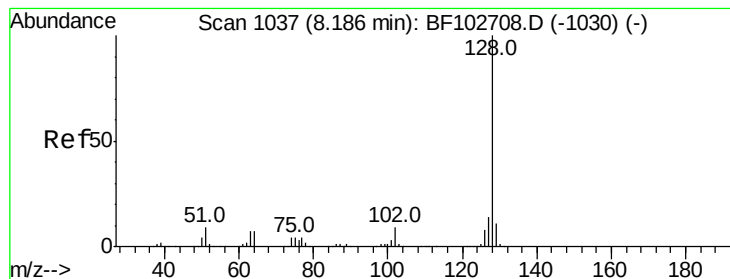


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 10.653 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

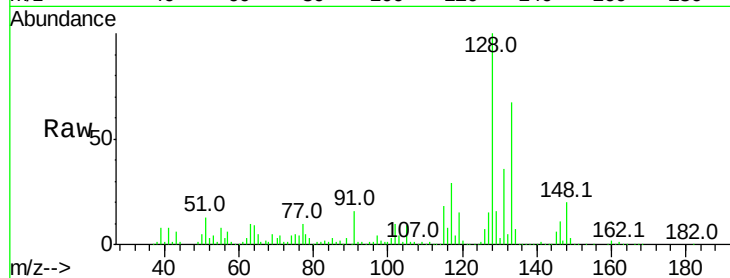
ClientSampleId :

8-SAN-6-EW(12-14)

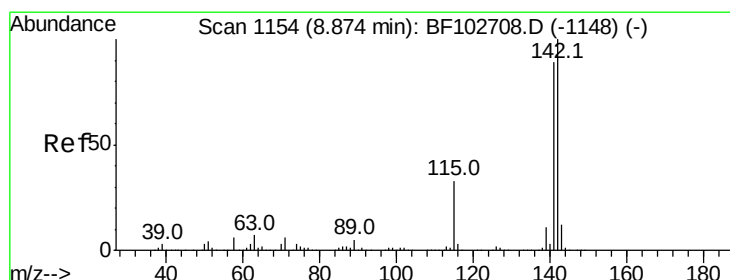
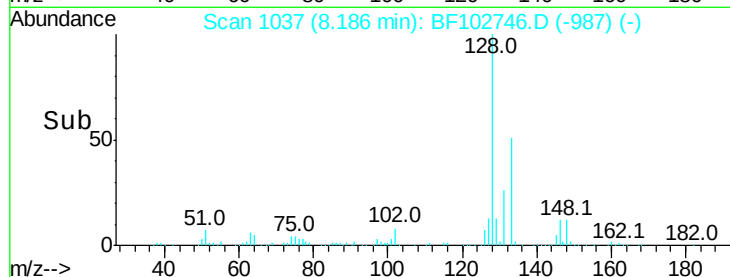
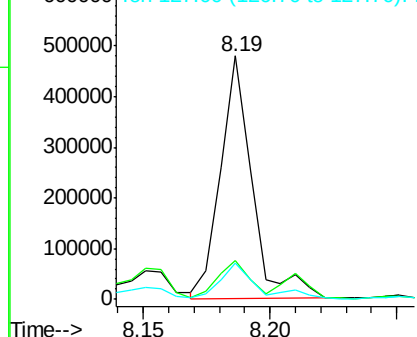
Tot Ion:	128	Resp:	415473
Ion Ratio	Lower	Upper	
128	100		
129	15.9	8.8	13.2#
127	15.1	10.9	16.3

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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: 11.992 ng

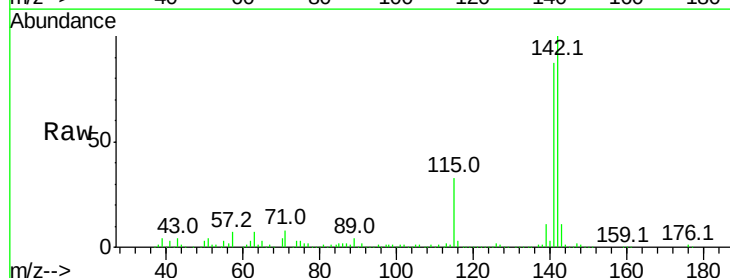
RT: 8.87 min Scan# 1154

Delta R.T. -0.01 min

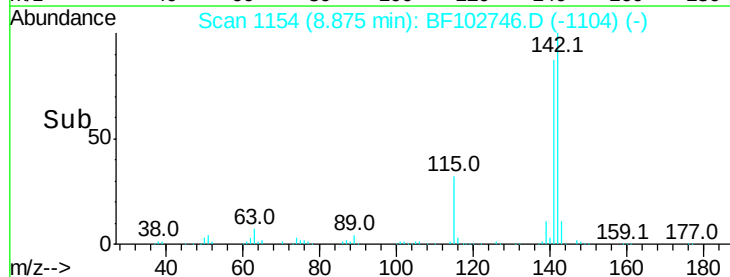
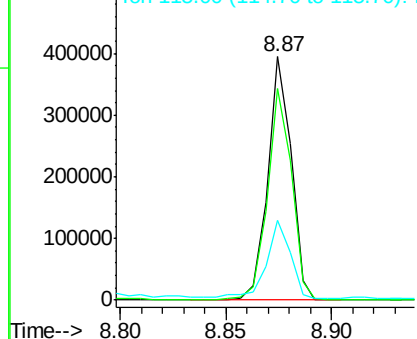
Lab File: BF102746.D

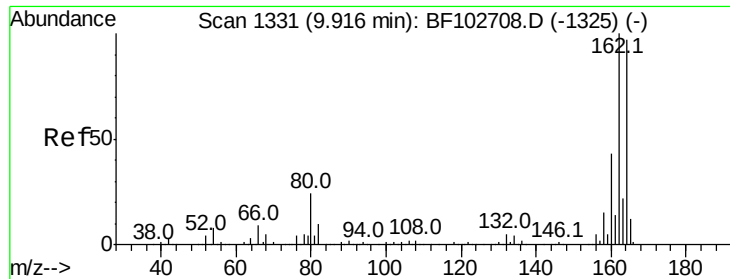
Acq: 5 Feb 2018 19:00

Tgt Ion:	142	Resp:	306225
Ion Ratio	Lower	Upper	
142	100		
141	86.9	70.8	106.2
115	32.8	26.1	39.1



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





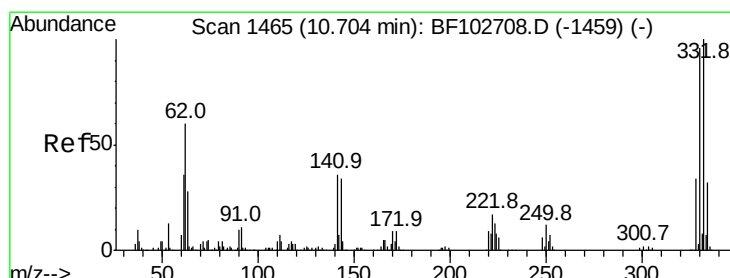
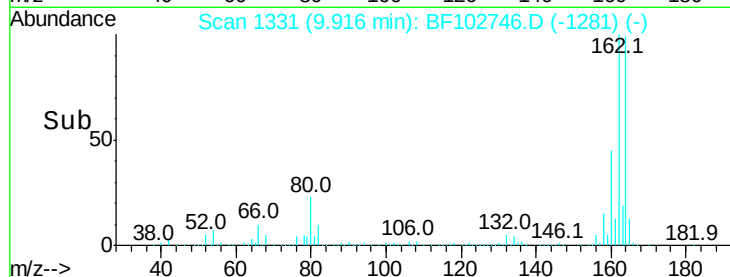
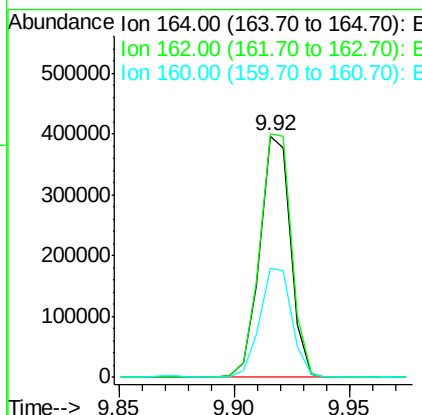
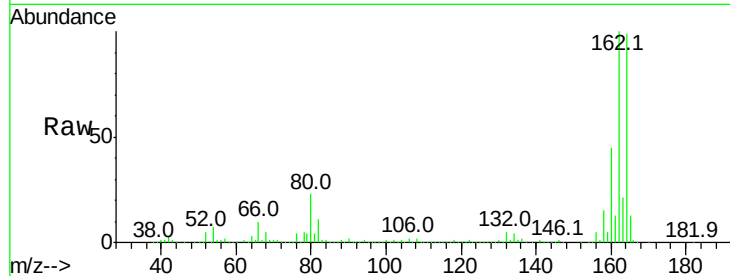
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Instrument :
BNA_F
ClientSampleId :
8-SAN-6-EW(12-14)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	368877		
162	101.0	86.1	129.1	
160	45.4	38.3	57.5	

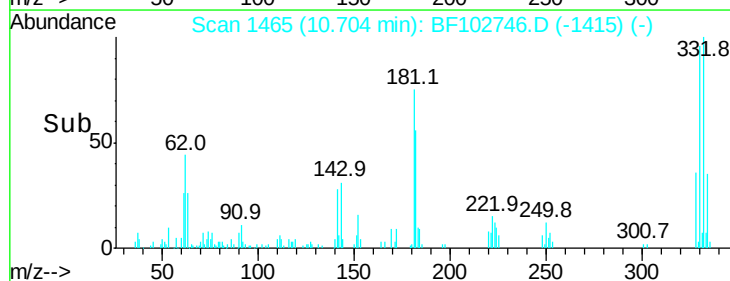
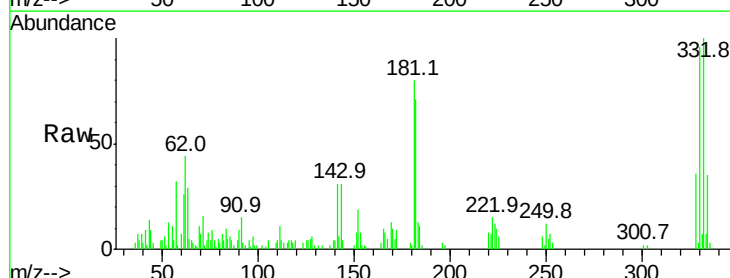
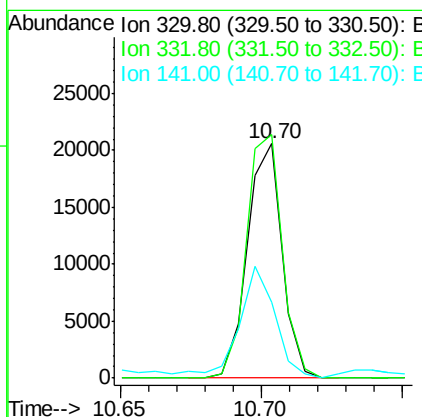
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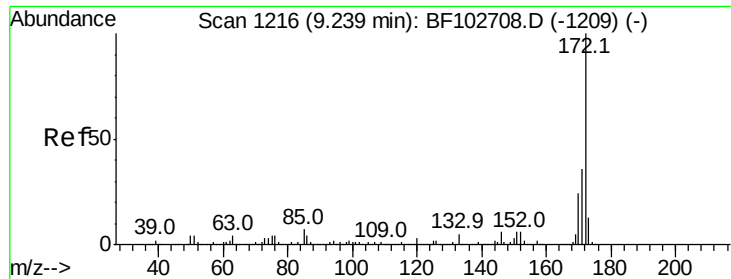
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#41
2,4,6-Tribromophenol
Concen: 5.930 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	17605		
332	105.9	77.0	115.6	
141	49.4	29.9	44.9#	





#44

2-Fluorobiphenyl

Concen: 5.101 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

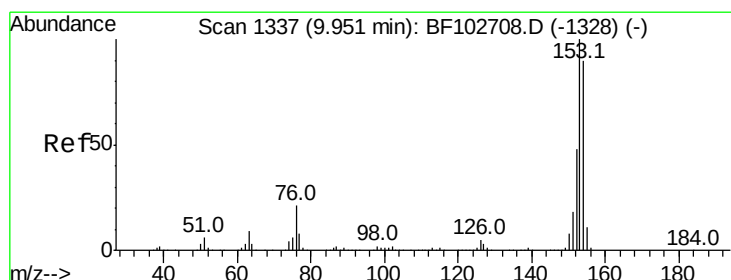
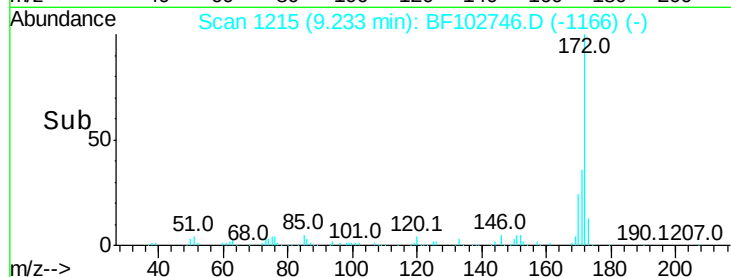
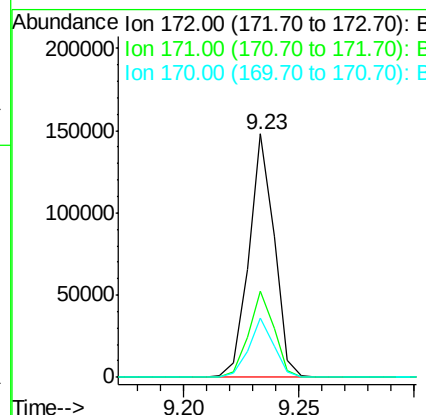
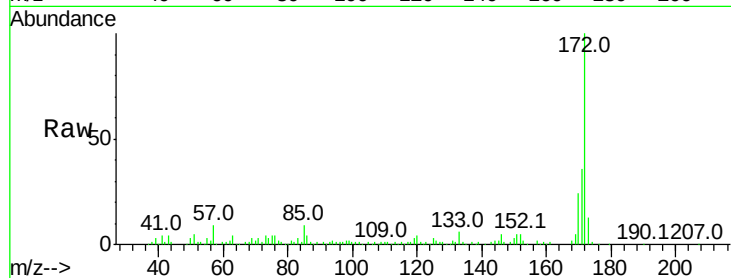
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion:	172	Resp:	113406
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.7	44.5
170	24.4	19.6	29.4

Manual Integrations
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#51

Acenaphthene

Concen: 2.505 ng

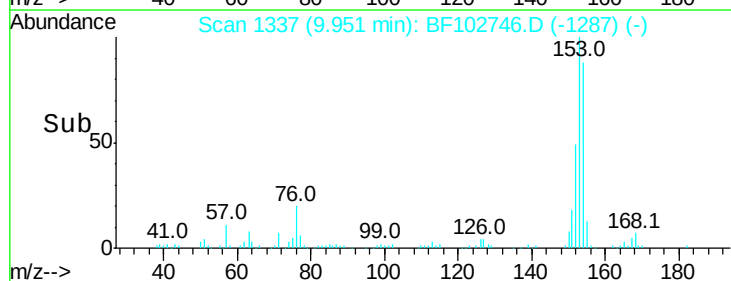
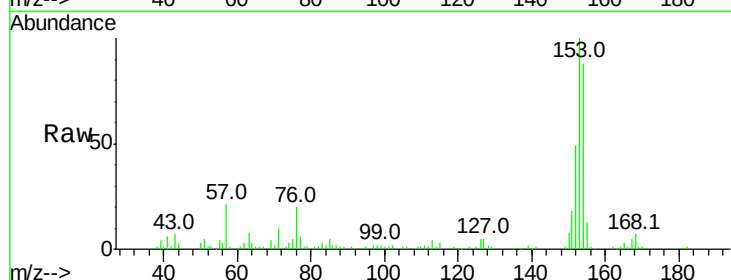
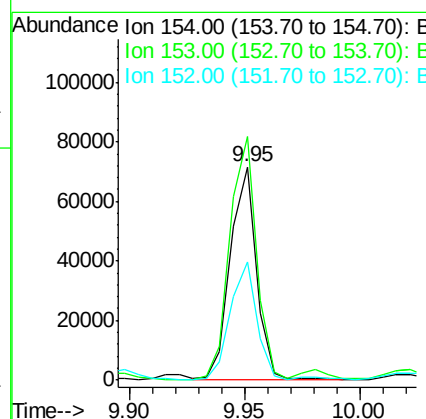
RT: 9.95 min Scan# 1337

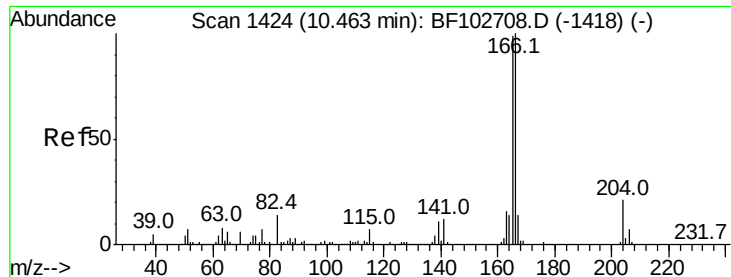
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion:	154	Resp:	56919
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.2	136.8
152	55.6	43.8	65.8





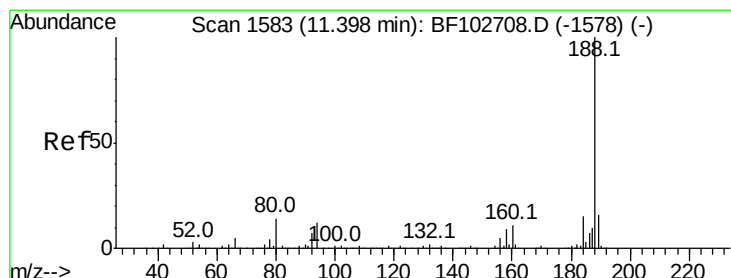
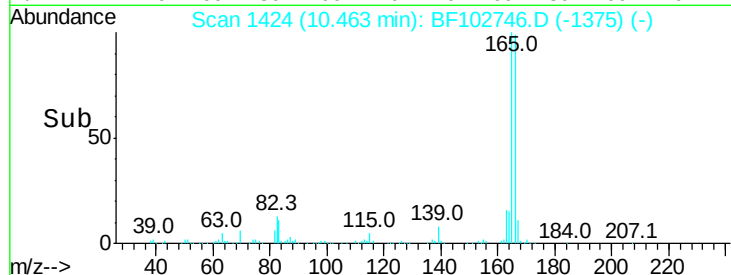
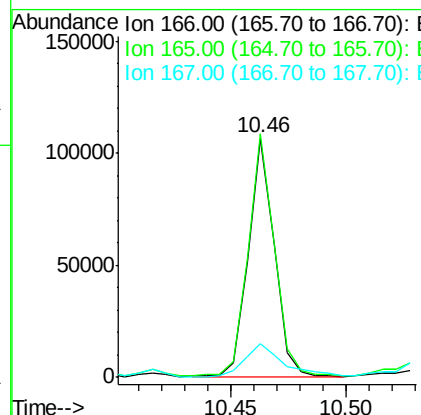
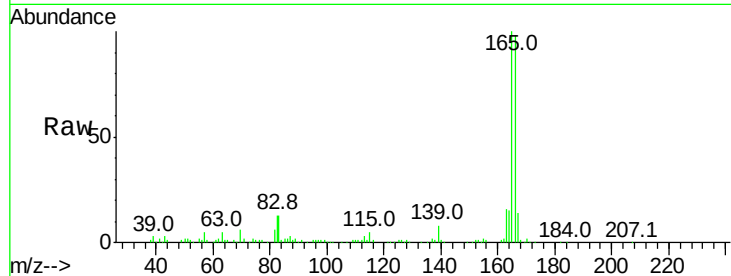
#57
Fluorene
 Concen: 3.582 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF102746.D
 Acq: 5 Feb 2018 19:00

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-6-EW(12-14)

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.9	79.8	119.8
167	14.4	10.6	16.0

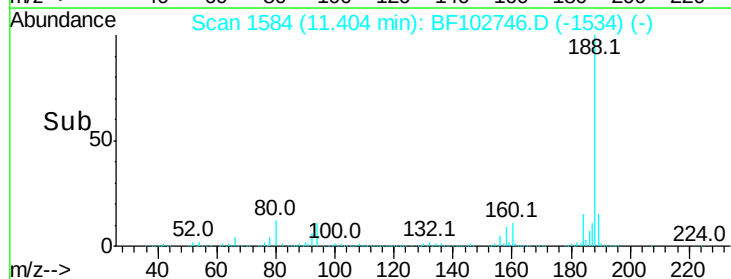
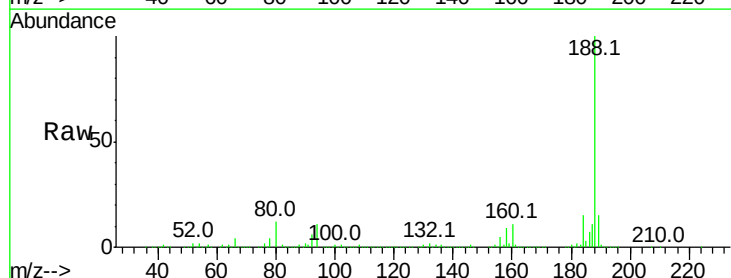
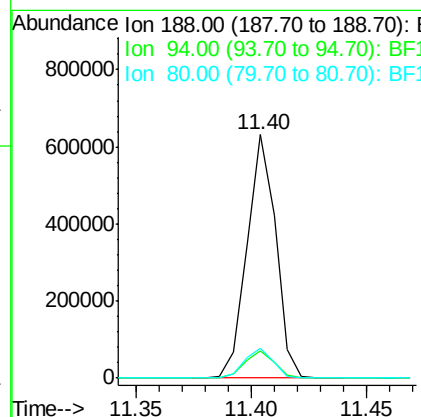
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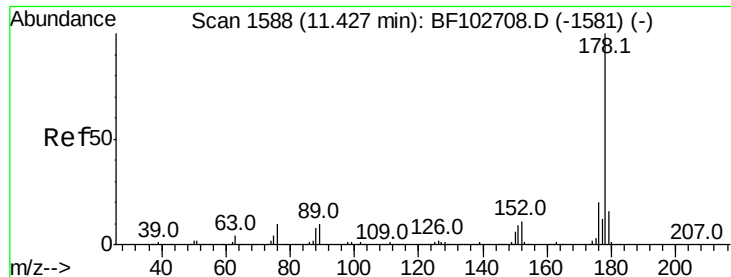
Sohil
 2/6/2018 2:25:40 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF102746.D
 Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.5	12.7
80	12.5	9.2	13.8





#70

Phenanthrene

Concen: 17.575 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

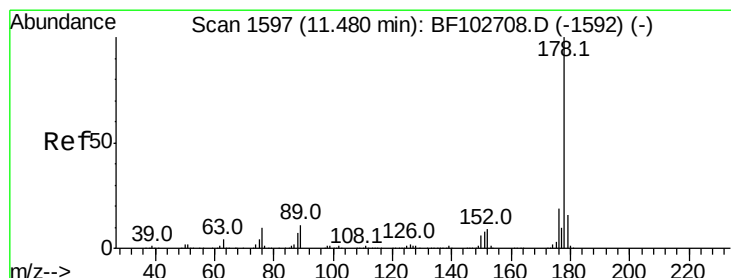
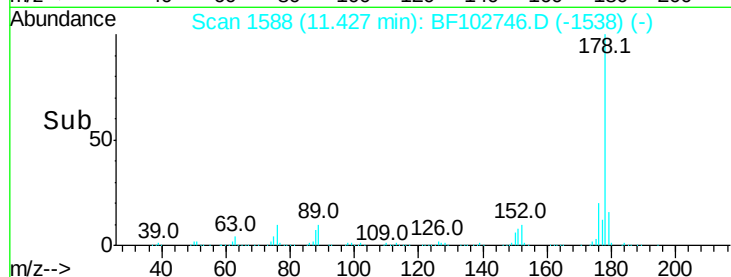
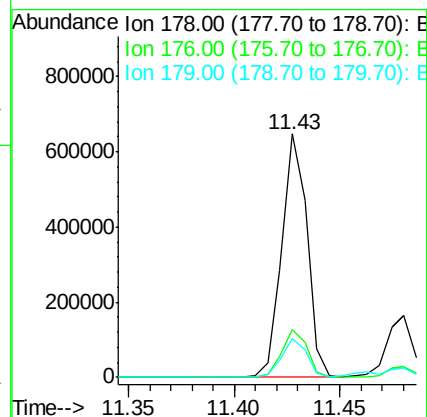
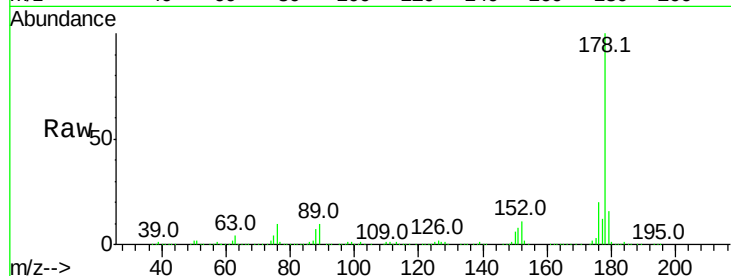
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion:	178	Resp:	540314
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.8	23.8
179	16.0	13.0	19.6

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2/6/2018 2:25:40 PM



#71

Anthracene

Concen: 4.363 ng

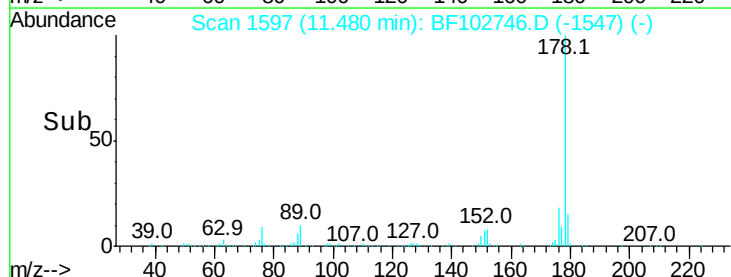
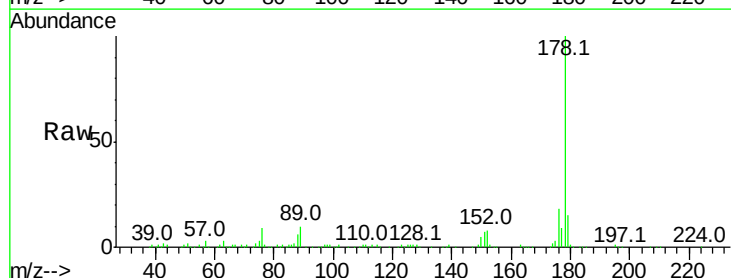
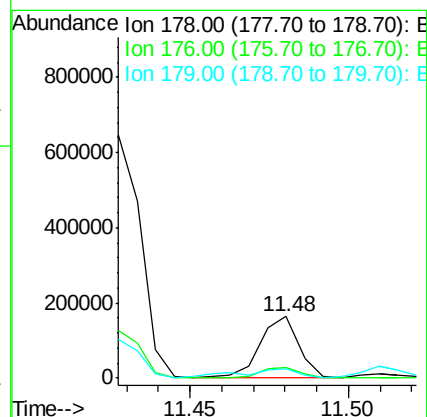
RT: 11.48 min Scan# 1597

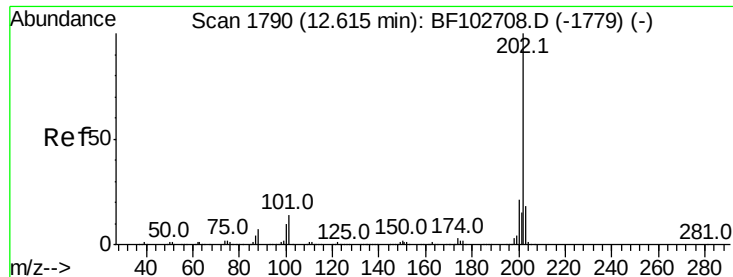
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion:	178	Resp:	136438
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.4	23.2
179	14.9	12.6	19.0





#74

Fluoranthene

Concen: 23.622 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

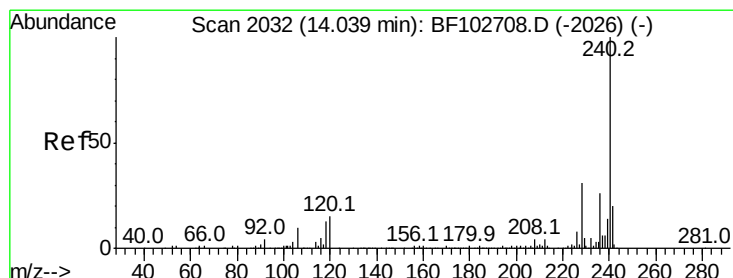
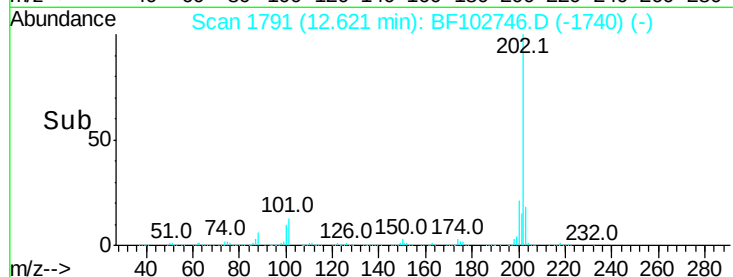
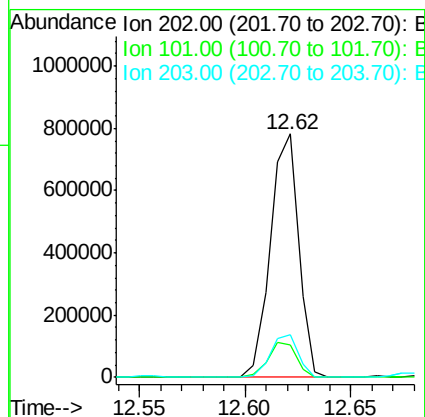
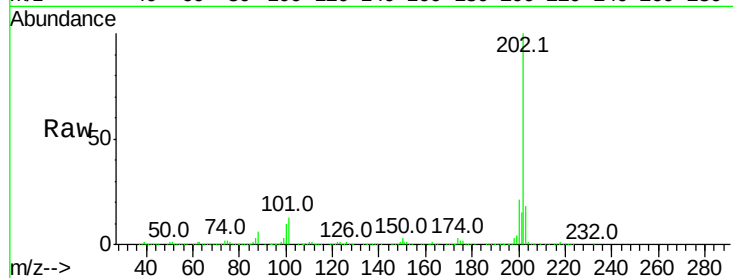
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	13.3	0.0	34.1		
203	17.7	0.0	38.1		

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2/6/2018 2:25:40 PM



#75

Chrysene-d12

Concen: 20.000 ng

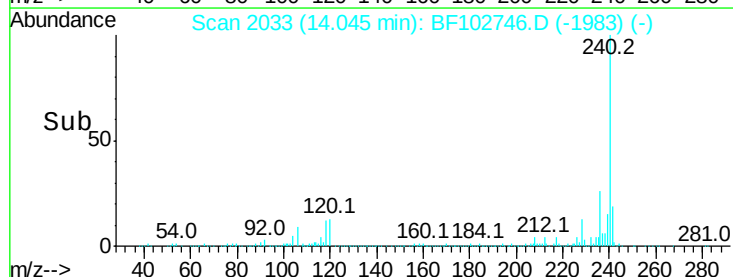
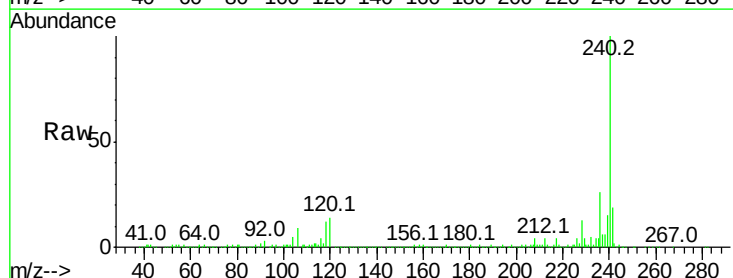
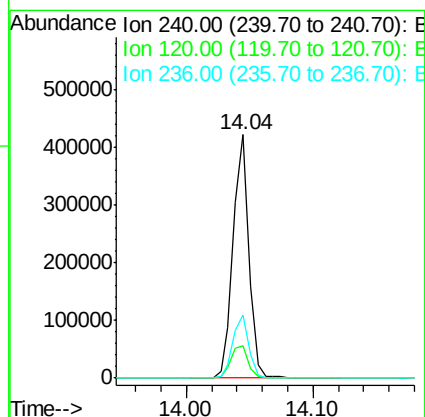
RT: 14.04 min Scan# 2033

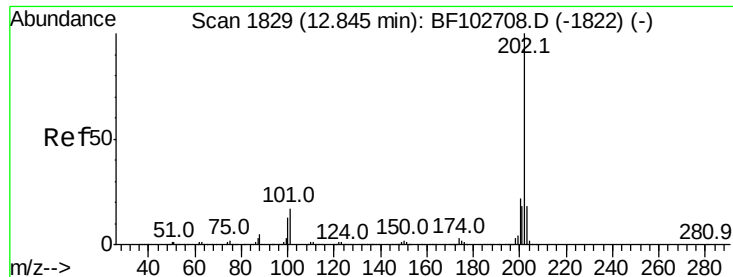
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	13.5	9.5	14.3		
236	25.9	20.7	31.1		





#77

Pvrene

Concen: 22.339 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

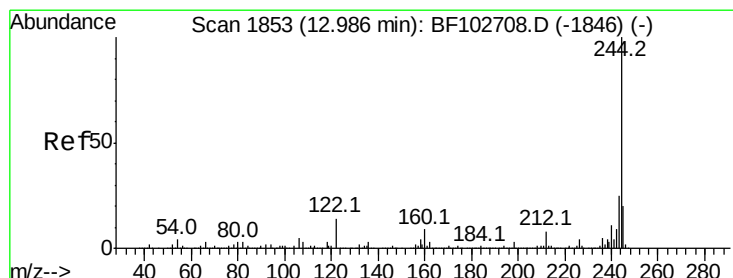
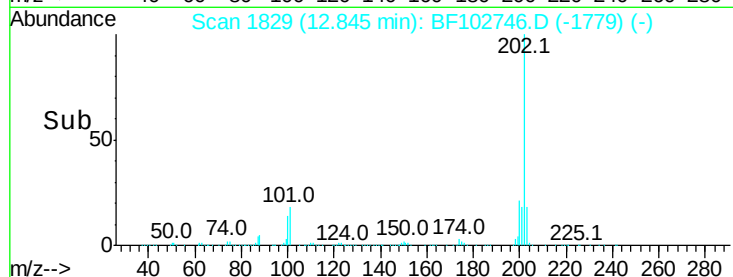
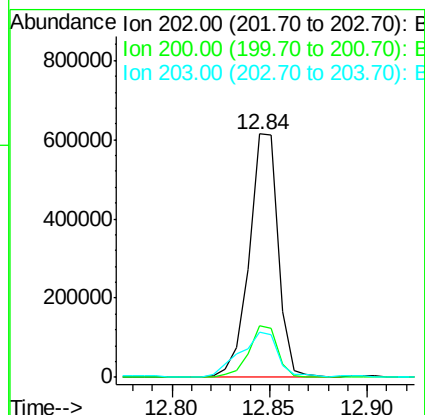
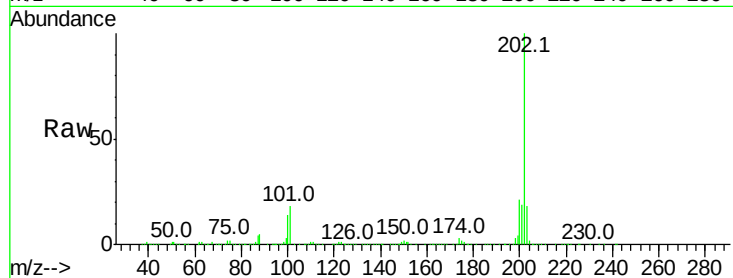
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion:	202	Resp:	631267
Ion Ratio		Lower	Upper
202	100		
200	21.3	17.4	26.2
203	18.4	14.3	21.5

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2/6/2018 2:25:40 PM



#78

Terphenyl-d14

Concen: 5.051 ng

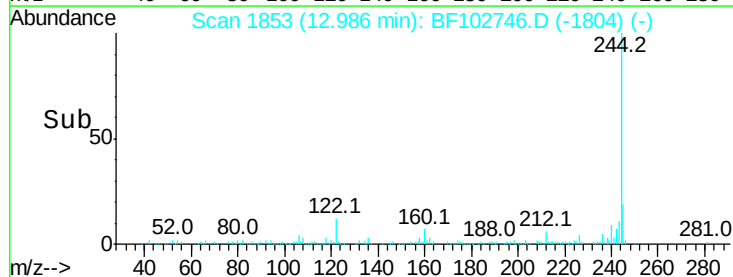
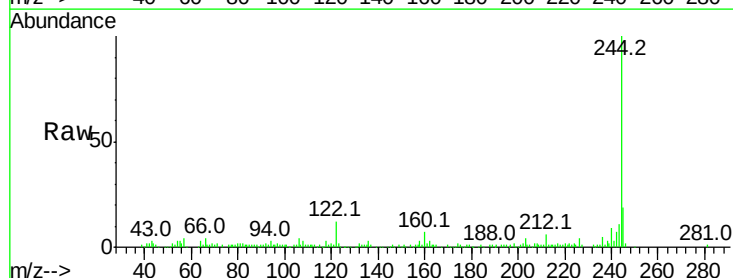
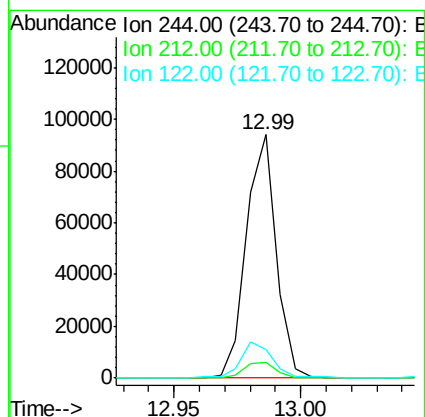
RT: 12.99 min Scan# 1853

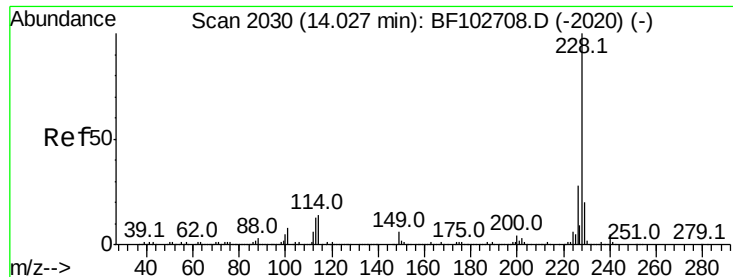
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion:	244	Resp:	76874
Ion Ratio		Lower	Upper
244	100		
212	6.3	5.4	8.0
122	11.8	11.0	16.4





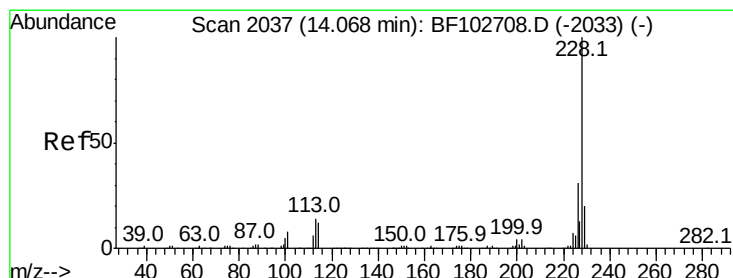
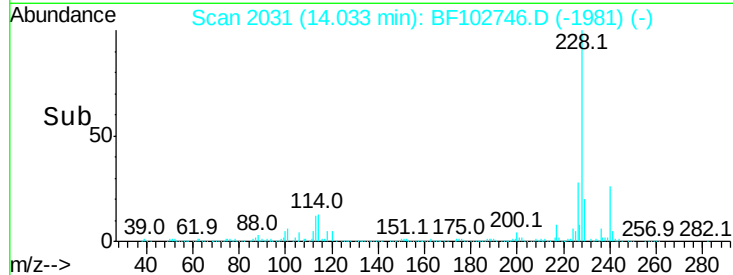
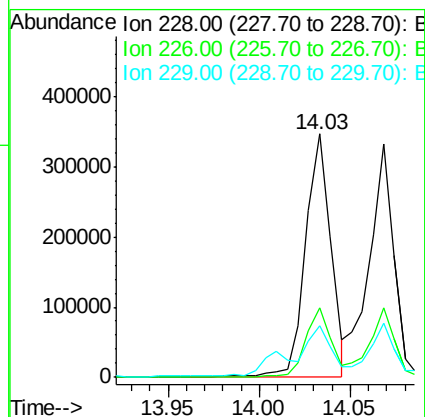
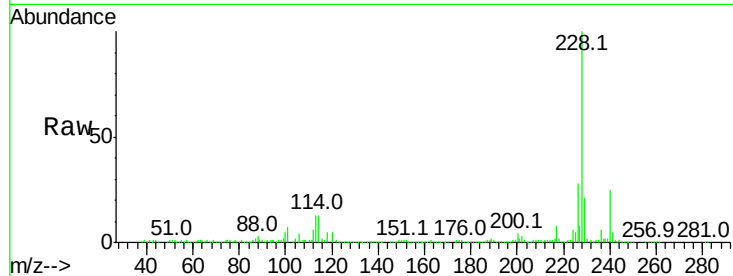
#80
Benzo(a)anthracene
Concen: 14.628 ng m
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Instrument :
BNA_F
ClientSampleId :
8-SAN-6-EW(12-14)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	21.0	15.8	23.6

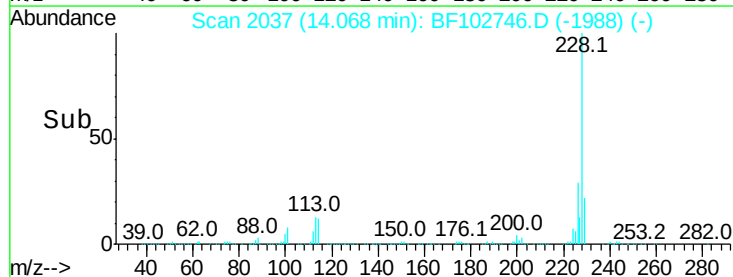
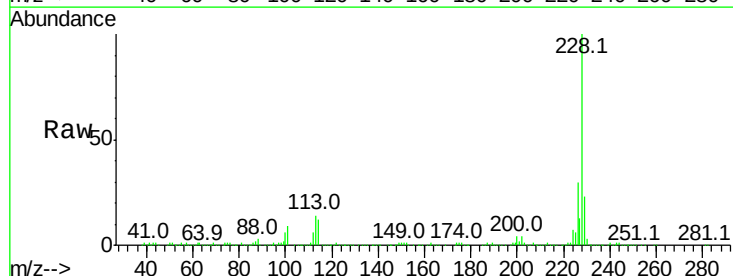
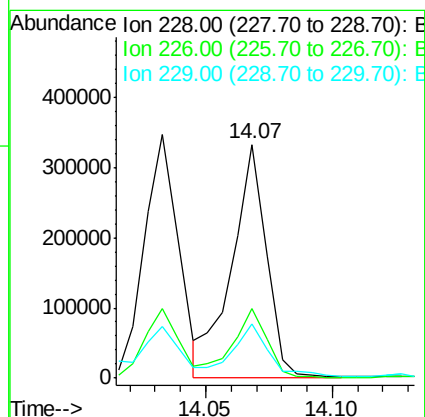
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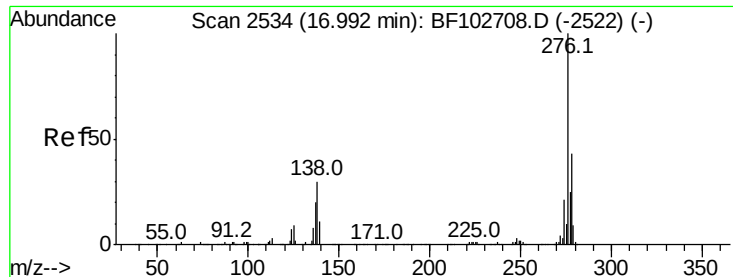
Sohil
2/6/2018 2:25:40 PM



#82
Chrysene
Concen: 13.841 ng m
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.0	37.6
229	23.2	16.2	24.4





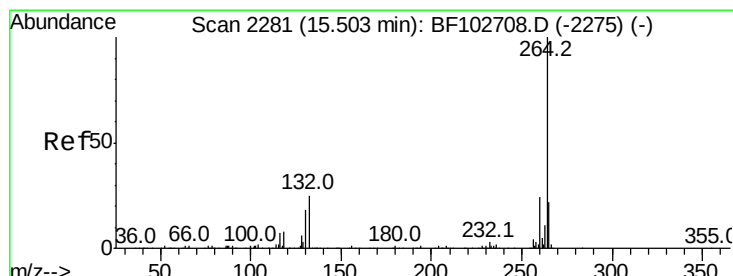
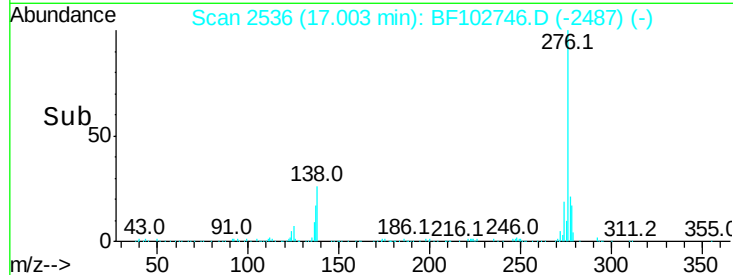
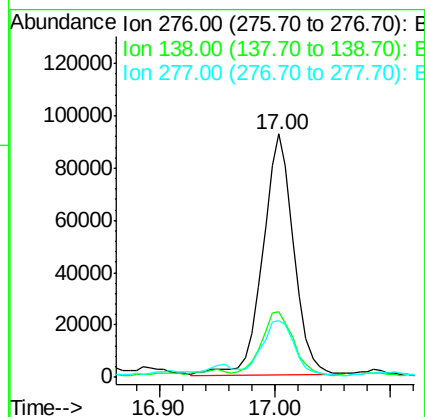
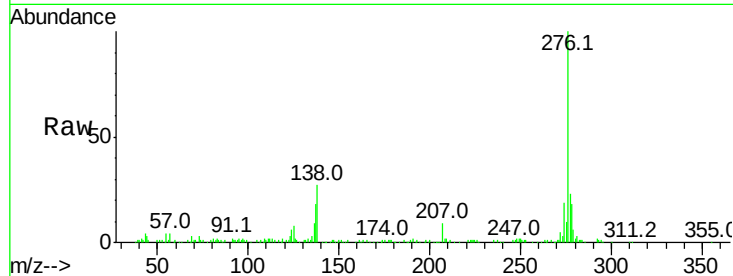
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.098 ng
RT: 17.00 min Scan# 2536
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Instrument :
BNA_F
ClientSampleId :
8-SAN-6-EW(12-14)

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.7	25.0	37.6
277	23.6	20.1	30.1

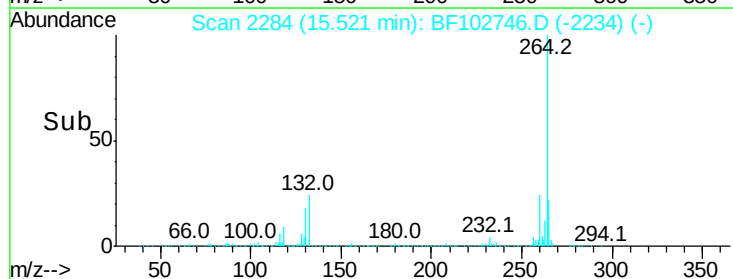
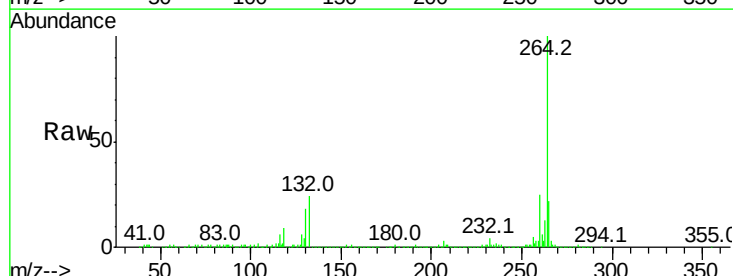
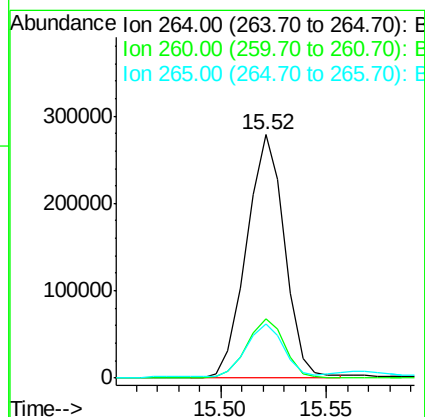
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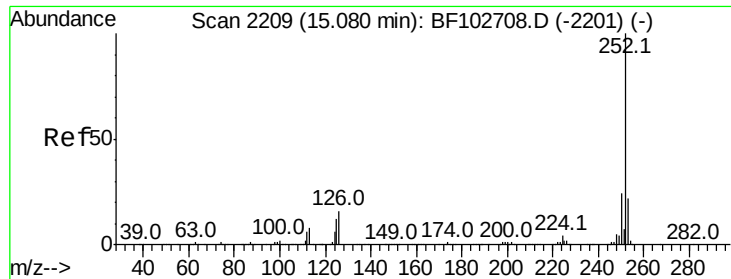
Sohil
2/6/2018 2:25:40 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 19.480 ng m

RT: 15.09 min Scan# 2210

Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Instrument :

BNA_F

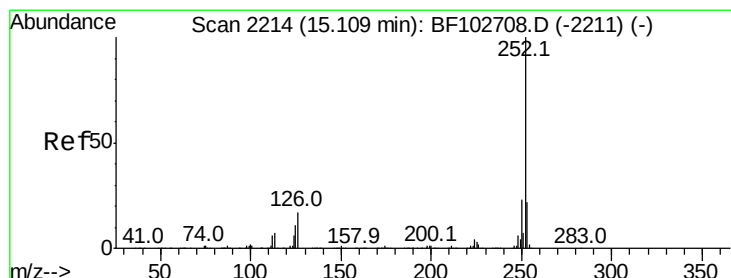
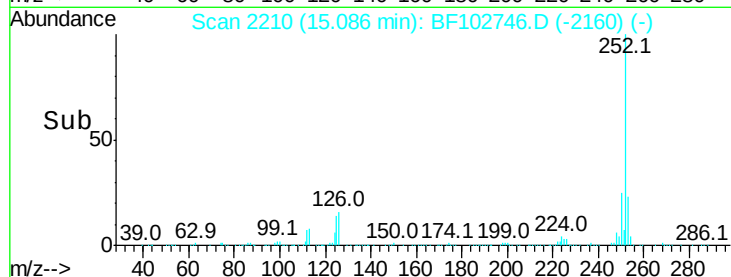
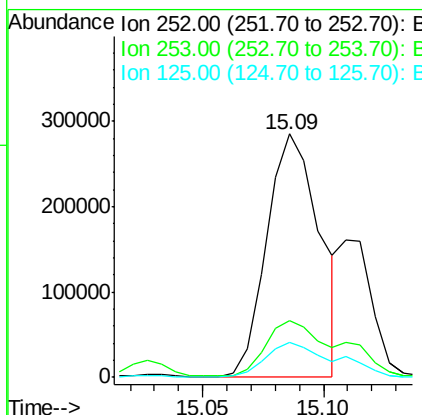
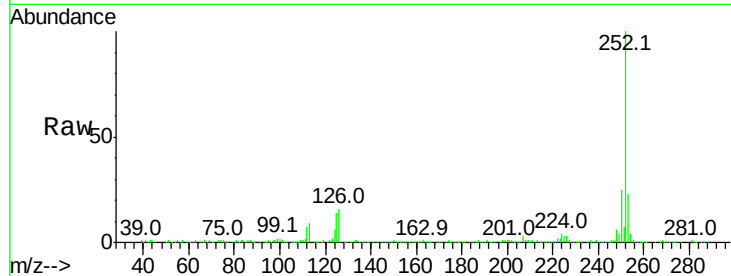
ClientSampleId :

8-SAN-6-EW(12-14)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	14.1	9.0	13.6

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2/6/2018 2:25:40 PM



#88

Benzo(k)fluoranthene

Concen: 6.737 ng m

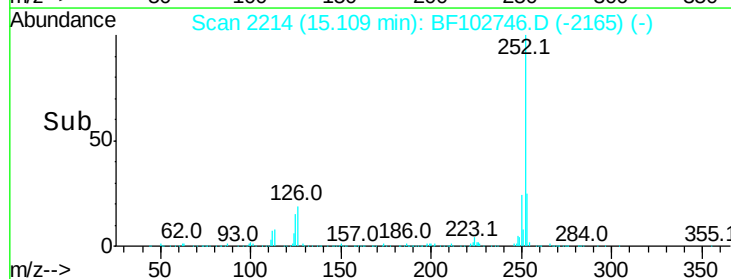
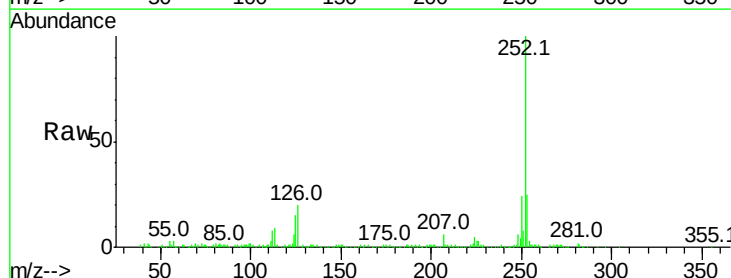
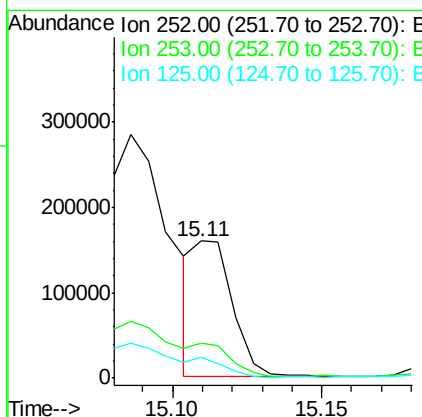
RT: 15.11 min Scan# 2214

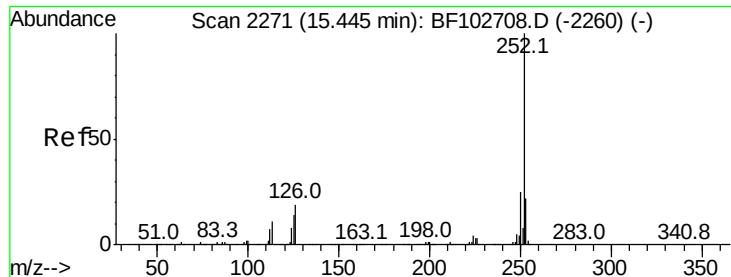
Delta R.T. -0.01 min

Lab File: BF102746.D

Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	15.1	10.2	15.2





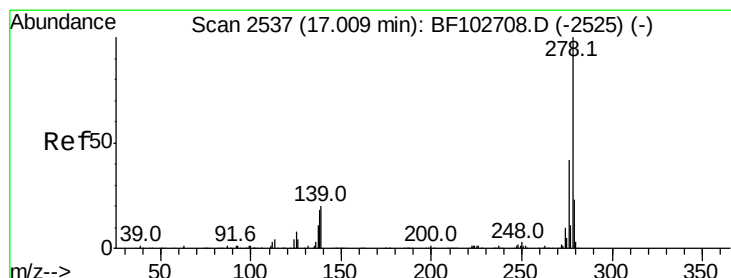
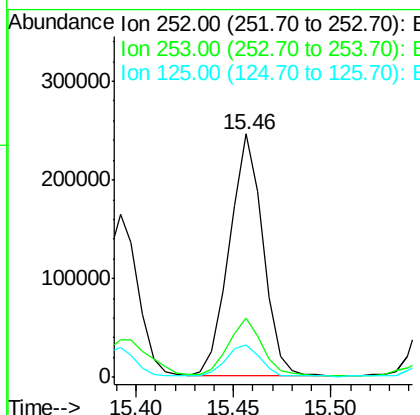
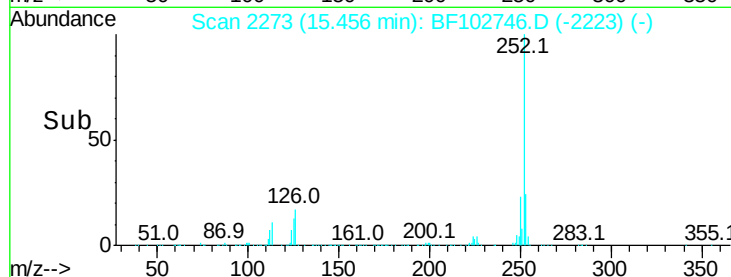
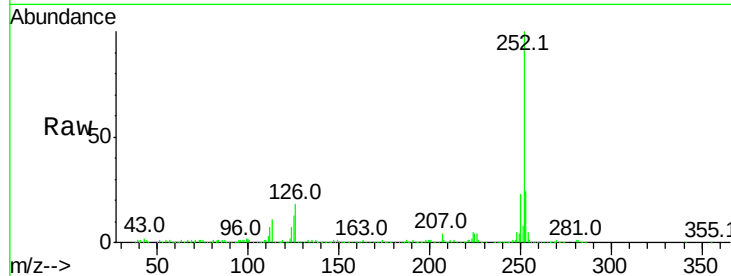
#89
Benzo(a)pyrene
Concen: 14.378 ng
RT: 15.46 min Scan# 2273
Delta R.T. -0.01 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Instrument :
BNA_F
ClientSampleId :
8-SAN-6-EW(12-14)

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.5	17.1	25.7
125	13.5	9.8	14.6

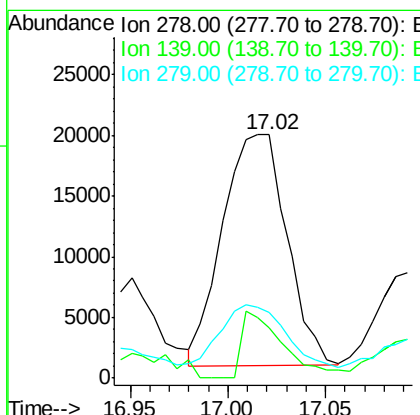
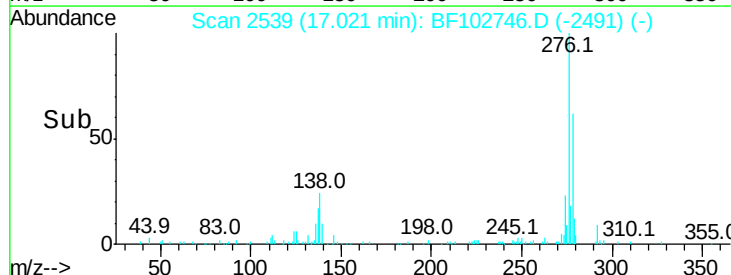
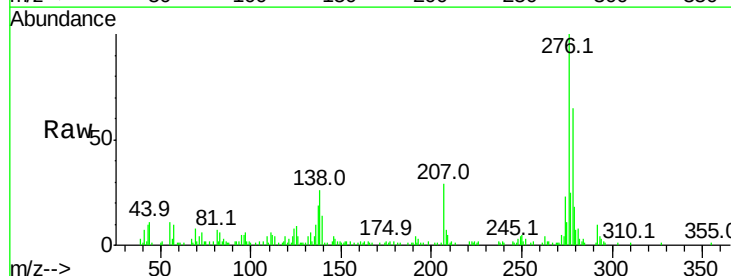
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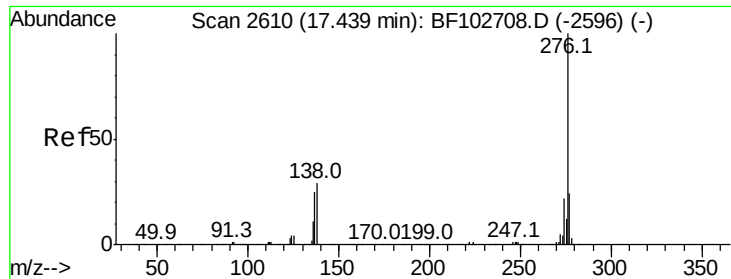
Sohil
2/6/2018 2:25:40 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.640 ng
RT: 17.02 min Scan# 2539
Delta R.T. -0.02 min
Lab File: BF102746.D
Acq: 5 Feb 2018 19:00

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	20.8	15.9	23.9
279	26.9	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 9.484 ng
 RT: 17.45 min Scan# 2612
 Delta R.T. -0.02 min
 Lab File: BF102746.D
 Acq: 5 Feb 2018 19:00

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-6-EW(12-14)

Tot Ion:	276	Resp:	152709
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	30.0	21.8	32.8

Manual Integrations
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