

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104216.D
 Acq On : 4 Apr 2018 9:20
 Operator : JU/SJ
 Sample : J2176-06DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_W_8DL

Manual Integrations
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Sohil
 4/4/2018 4:10:22 PM

Quant Time: Apr 04 11:03:16 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	104345	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	466635	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	224737	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	398165	20.00	ng	0.00
75) Chrysene-d12	14.15	240	250030	20.00	ng	-0.01
86) Perylene-d12	15.69	264	241646	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	93690m	14.32	ng	0.00
7) Phenol-d6	6.60	99	137977m	17.14	ng	0.00
23) Nitrobenzene-d5	7.53	82	79405	10.41	ng	0.00
41) 2,4,6-Tribromophenol	10.79	330	39939	15.96	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	215716	15.14	ng	0.00
78) Terphenyl-d14	13.07	244	199241	18.40	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.26	128	1635701	71.752	ng	99
37) 2-Methylnaphthalene	8.95	142	421621	28.077	ng	100
45) 1,1'-Biphenyl	9.42	154	92537	4.797	ng	98
48) Acenaphthylene	9.86	152	83571	3.626	ng	# 95
51) Acenaphthene	10.03	154	290554	21.790	ng	99
57) Fluorene	10.55	166	210127	13.082	ng	97
70) Phenanthrene	11.52	178	788160	36.562	ng	98
71) Anthracene	11.57	178	331504	14.722	ng	97
74) Fluoranthene	12.71	202	317770	13.868	ng	99
77) Pyrene	12.95	202	453681	25.242	ng	98
80) Benzo(a)anthracene	14.14	228	137530	8.791	ng	# 72
82) Chrysene	14.17	228	101266	6.609	ng	95
85) Indeno(1,2,3-cd)pyrene	17.28	276	77549	4.884	ng	# 87
87) Benzo(b)fluoranthene	15.23	252	118148m	8.034	ng	
88) Benzo(k)fluoranthene	15.25	252	50879m	3.673	ng	
89) Benzo(a)pyrene	15.62	252	175276	12.861	ng	97
91) Benzo(a,h,i)perylene	17.76	276	81434	6.452	ng	96

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

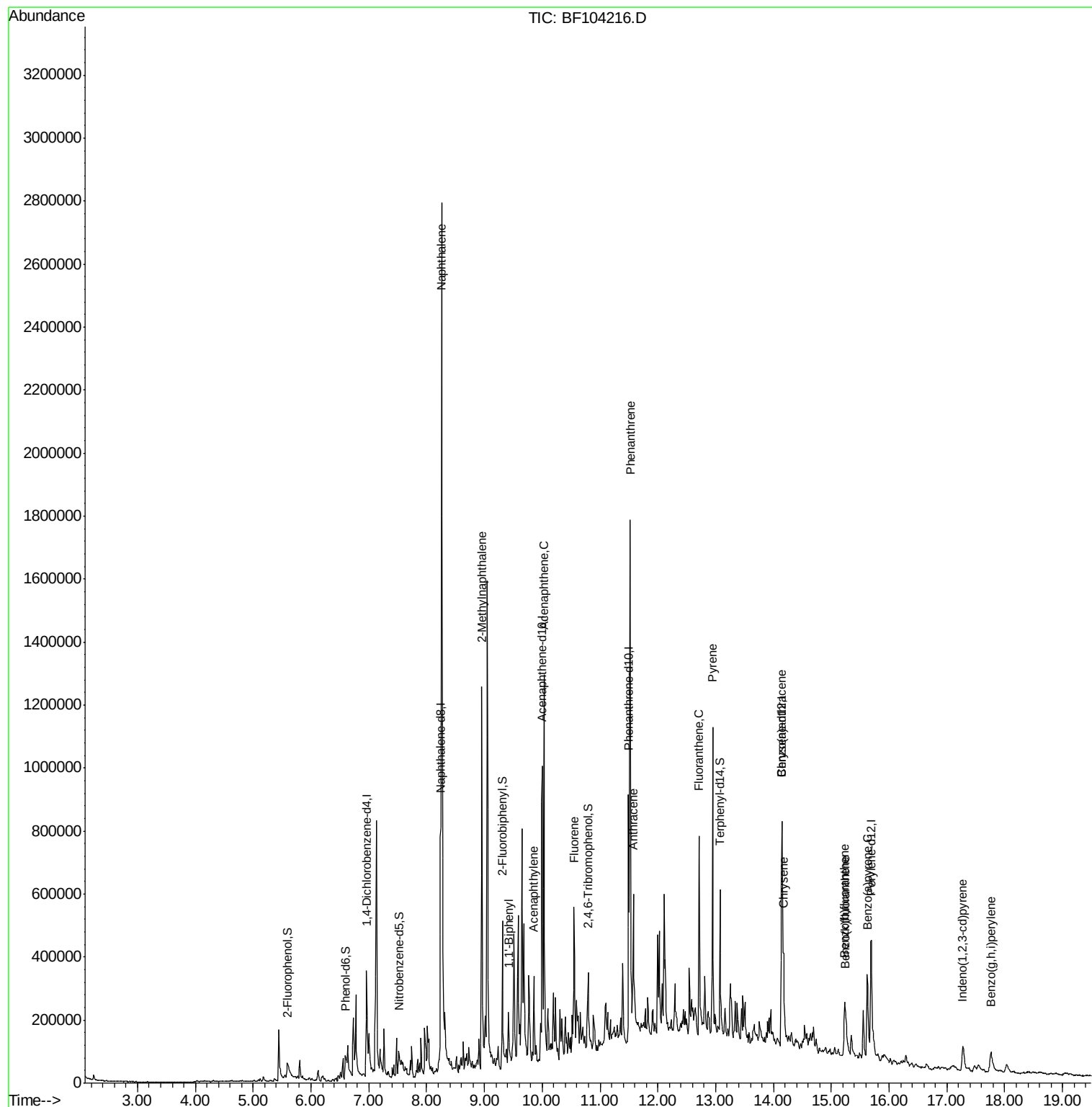
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
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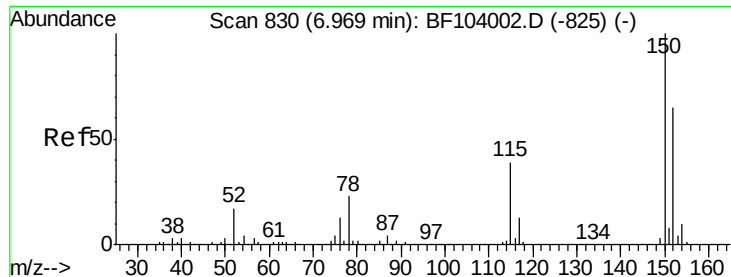
Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
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#1

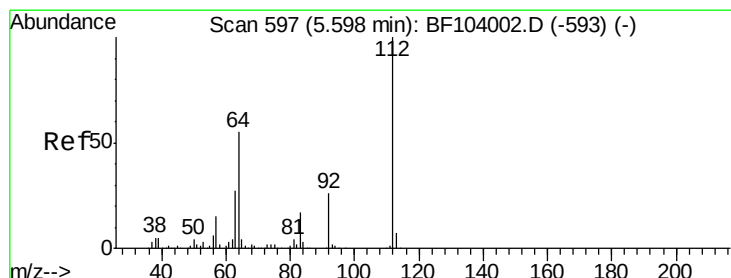
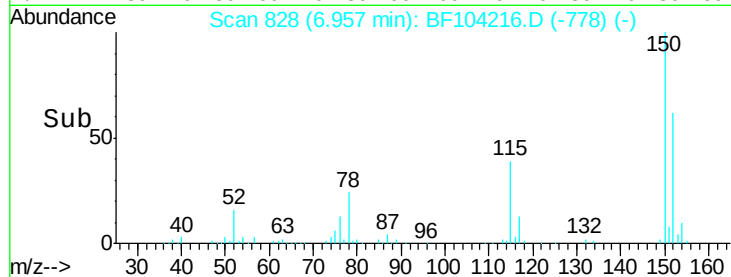
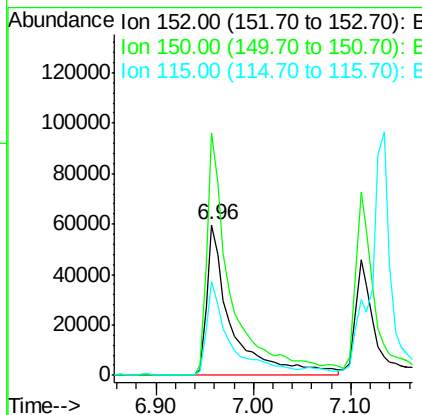
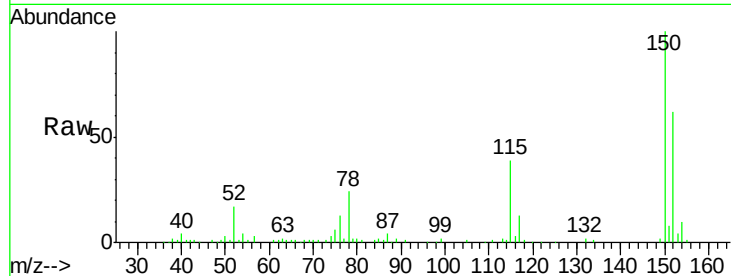
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	124.6	186.8
115	62.1	50.1	75.1

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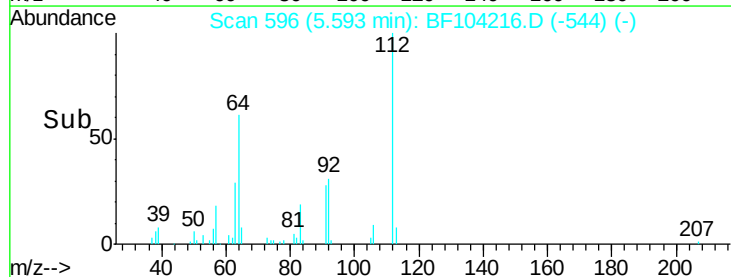
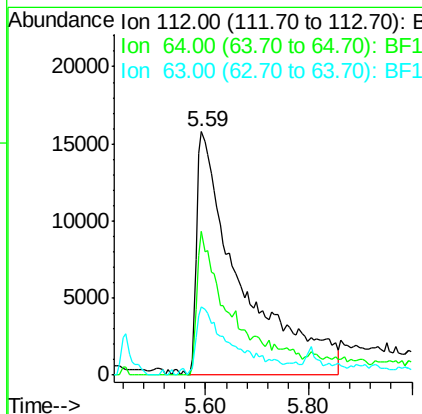
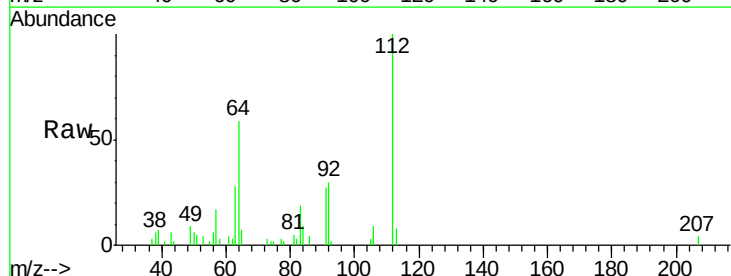
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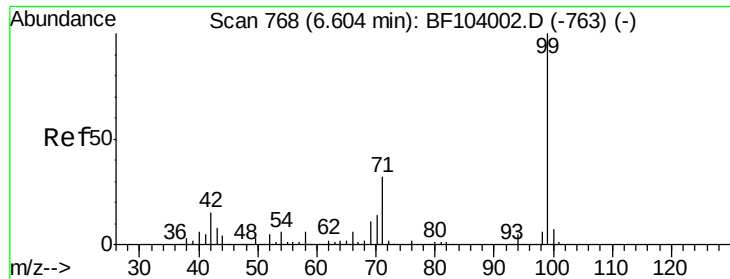


#5

2-Fluorophenol
Concen: 14.319 ng m
RT: 5.59 min Scan# 596
Delta R.T. 0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.0	47.9	71.9
63	28.2	23.7	35.5





#7

Phenol-d6

Concen: 17.140 ng/mL

RT: 6.60 min Scan# 767

Delta R.T. 0.00 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

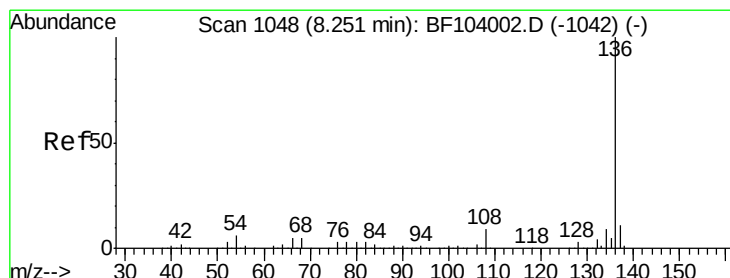
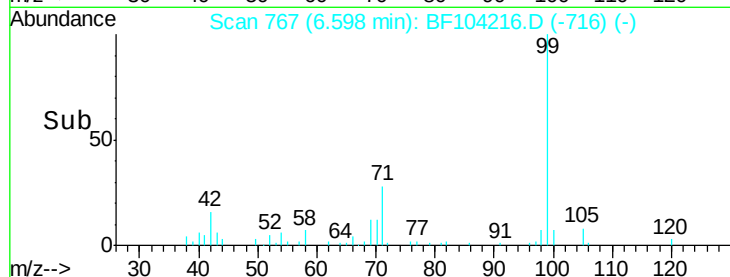
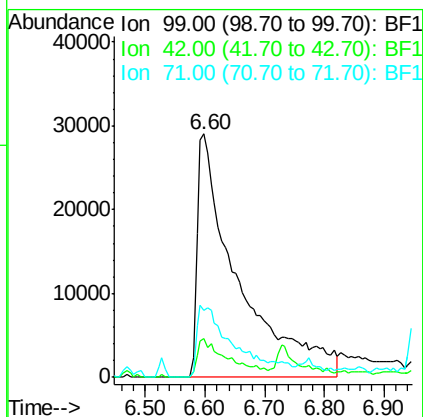
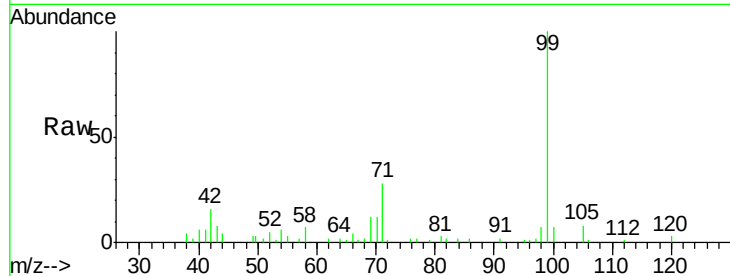
ClientSampleId :

A2_SB30_W_8DL

Tot Ion:	99	Resp:	137977
Ion Ratio	Lower	Upper	
99	100		
42	15.7	14.5	21.7
71	27.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng/mL

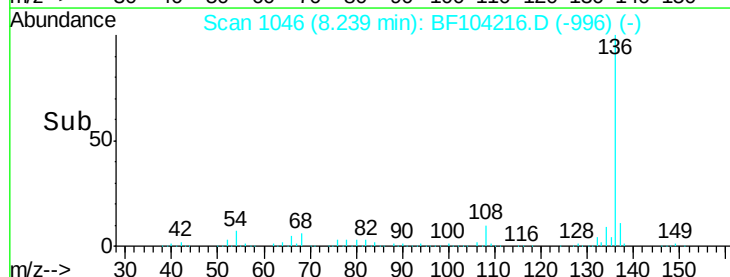
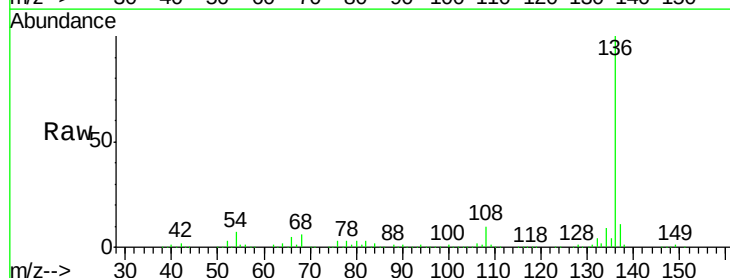
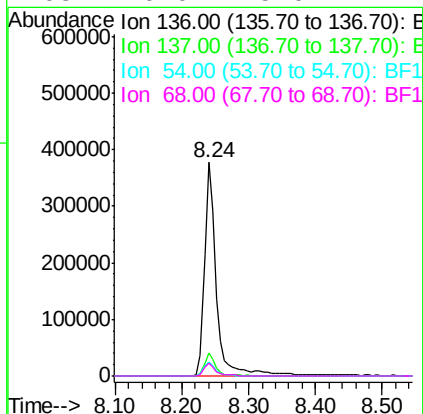
RT: 8.24 min Scan# 1046

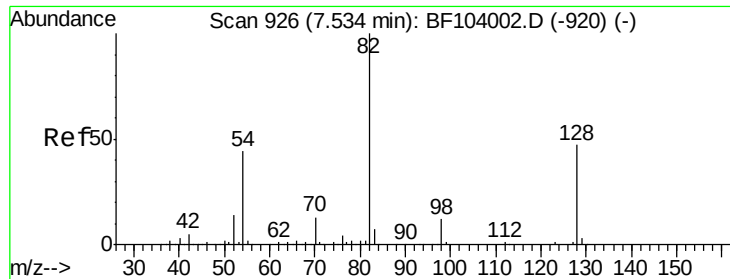
Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	136	Resp:	466635
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	6.9	6.6	9.8
68	6.0	5.0	7.4





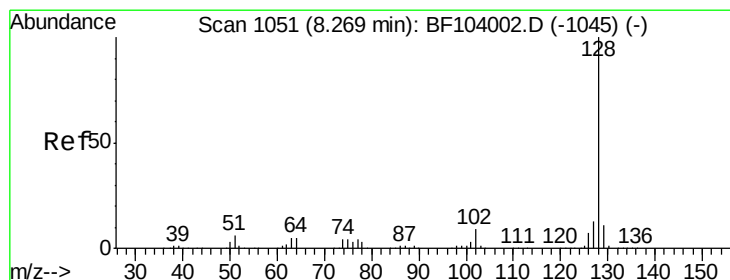
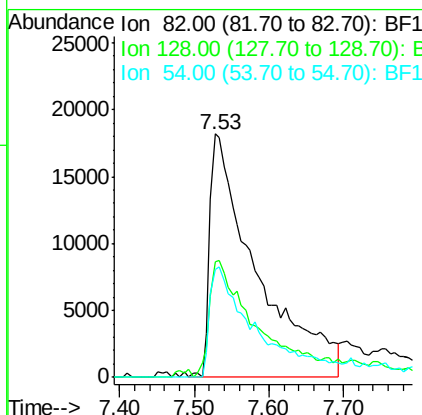
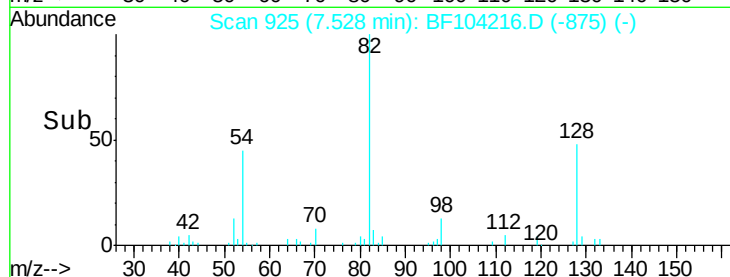
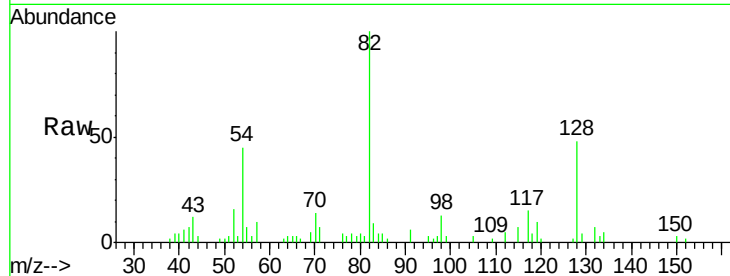
#23
Nitrobenzene-d5
Concen: 10.407 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion:	82	Resp:	79405
Ion Ratio	Lower	Upper	
82	100		
128	47.6	36.1	54.1
54	44.6	41.4	62.2

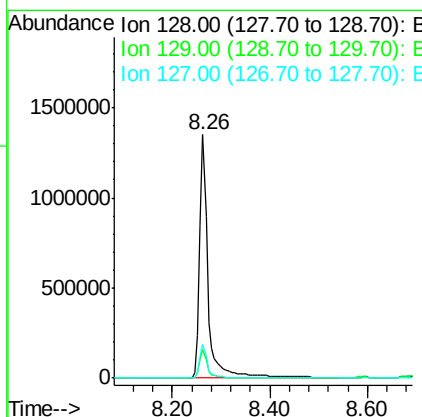
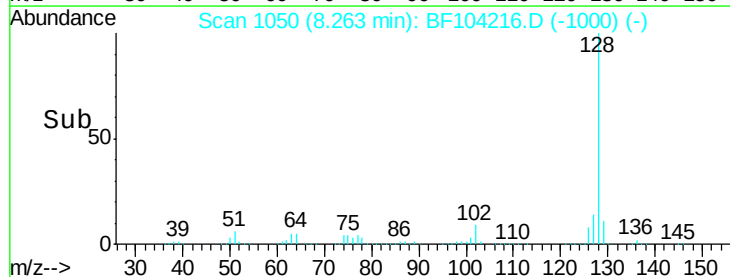
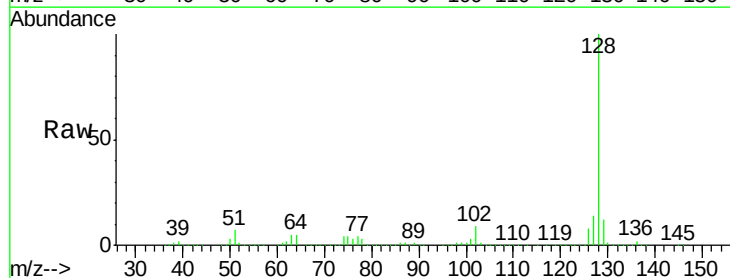
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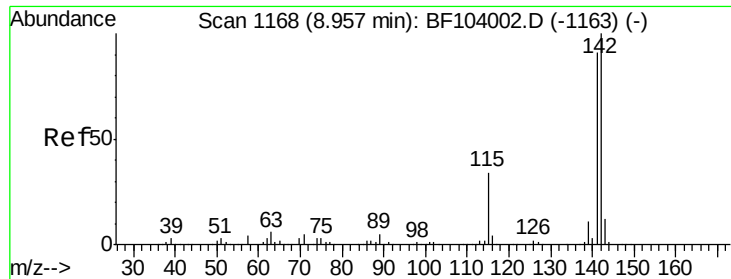
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#31
Naphthalene
Concen: 71.752 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:	128	Resp:	1635701
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.8	13.2
127	13.8	10.9	16.3





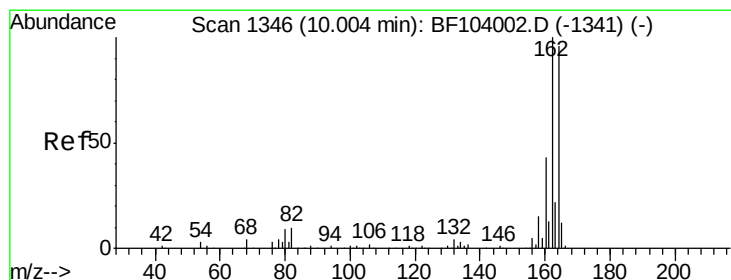
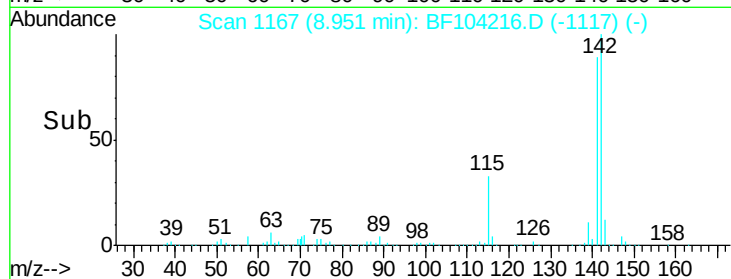
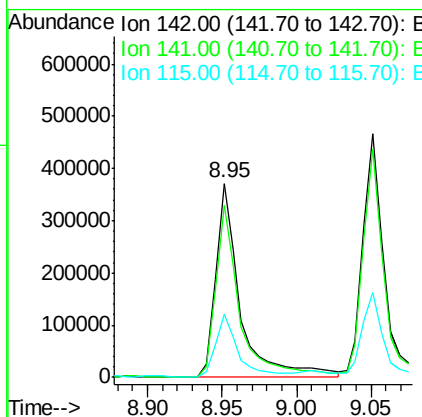
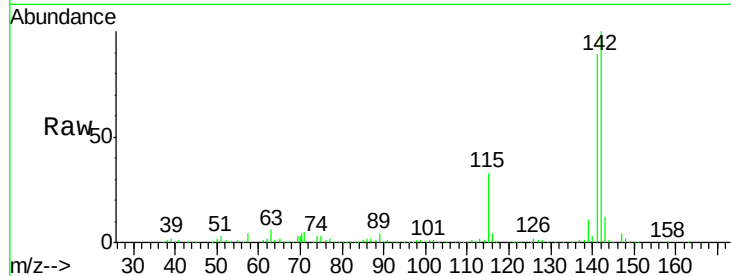
#37
2-Methylnaphthalene
Concen: 28.077 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion:	142	Resp:	421621
Ion Ratio	Lower	Upper	
142	100		
141	88.9	70.8	106.2
115	32.8	26.1	39.1

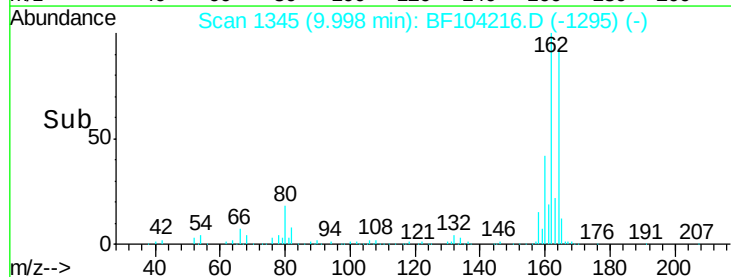
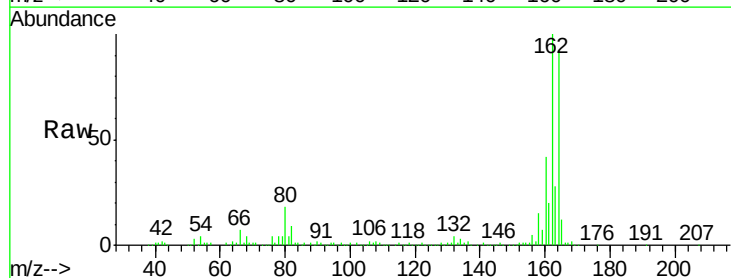
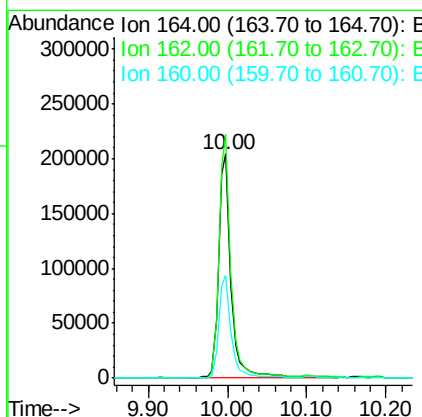
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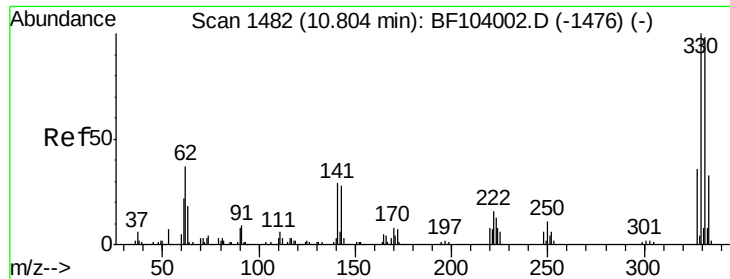
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:	164	Resp:	224737
Ion Ratio	Lower	Upper	
164	100		
162	108.6	86.1	129.1
160	45.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 15.960 ng

RT: 10.79 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

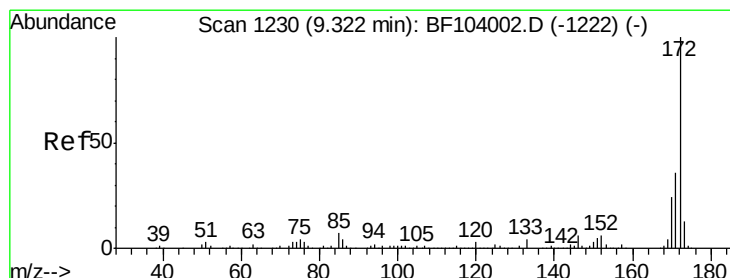
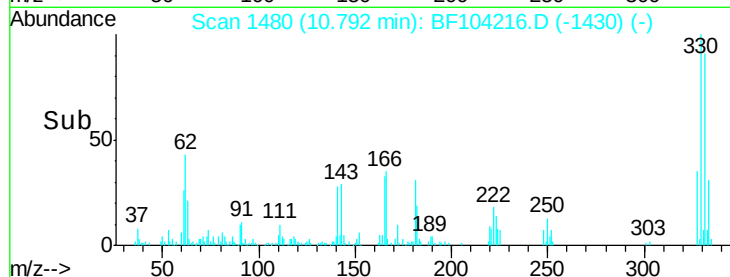
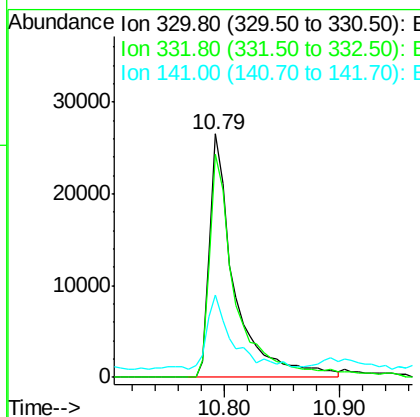
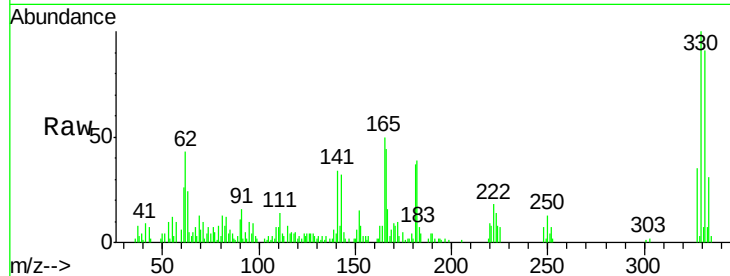
ClientSampleId :

A2_SB30_W_8DL

Tot Ion:	330	Resp:	39939
Ion Ratio	Lower	Upper	
330	100		
332	97.0	77.0	115.6
141	31.4	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 15.136 ng

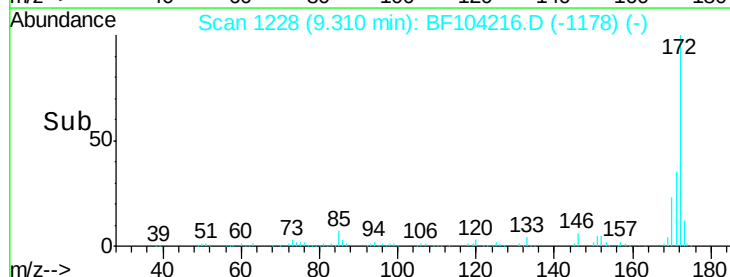
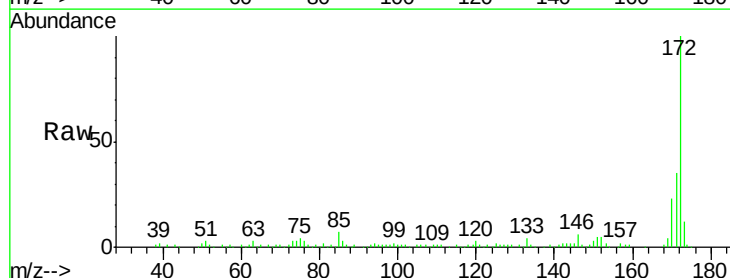
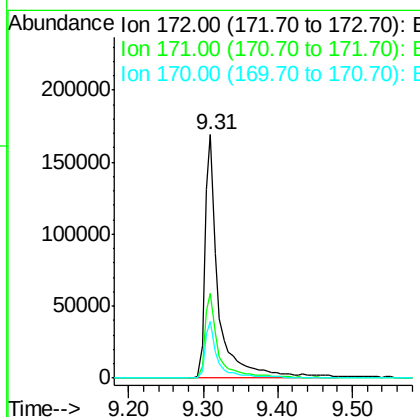
RT: 9.31 min Scan# 1228

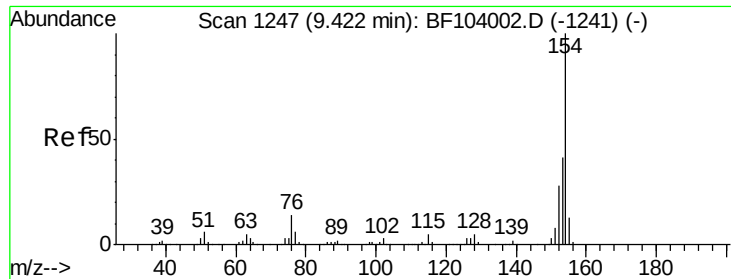
Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	172	Resp:	215716
Ion Ratio	Lower	Upper	
172	100		
171	34.6	29.7	44.5
170	23.0	19.6	29.4





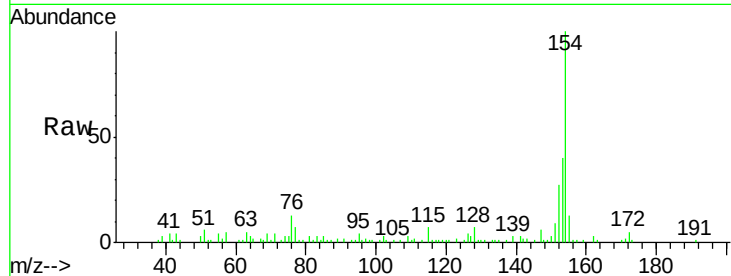
#45
 1,1'-Biphenyl
 Concen: 4.797 ng
 RT: 9.42 min Scan# 1246
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Instrument :
 BNA_F
 ClientSampled :
 A2_SB30_W_8DL

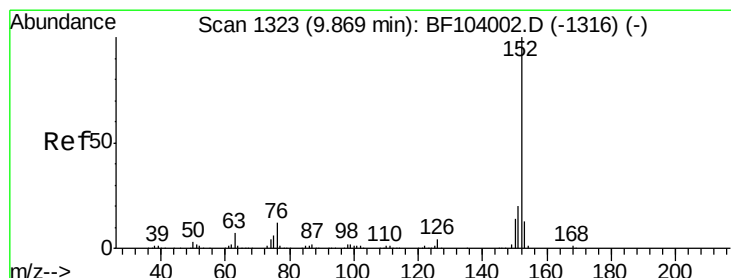
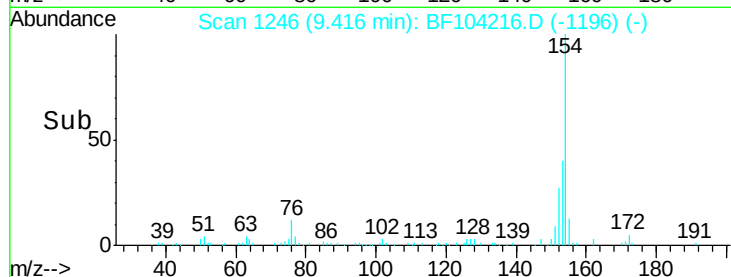
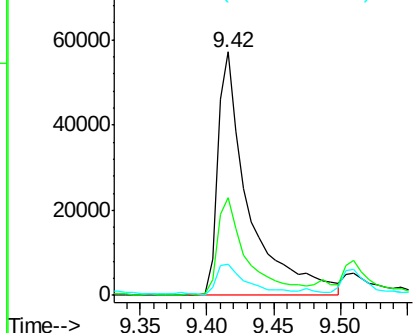
Tot Ion	Ion	Ratio	Resp	Lower	Upper
154	100		92537		
153	40.3	21.3	61.3		
76	12.8	0.0	34.0		

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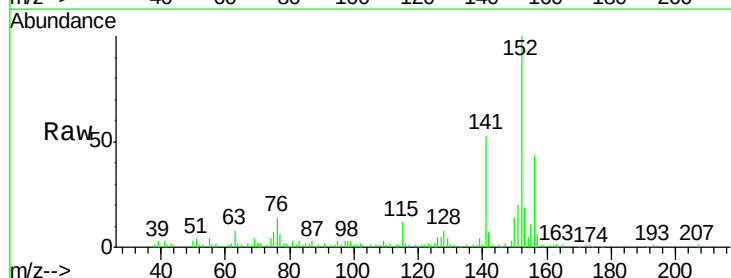


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

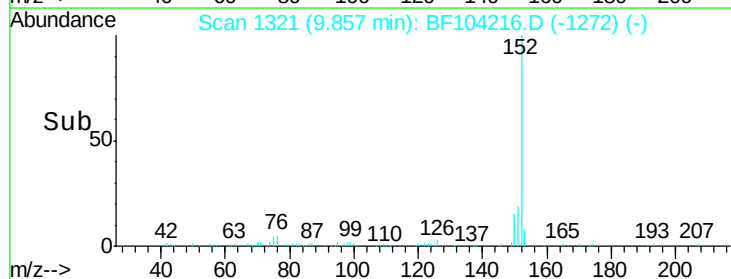
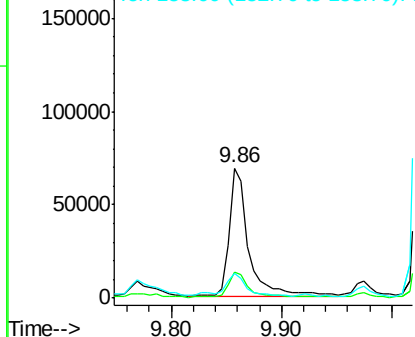


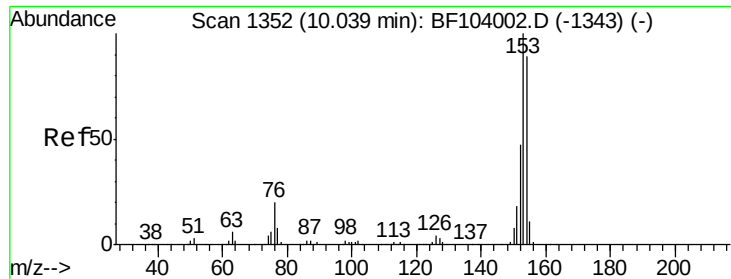
#48
 Acenaphthylene
 Concen: 3.626 ng
 RT: 9.86 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		83571		
151	20.3	16.3	24.5		
153	18.8	10.7	16.1#		



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 21.790 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

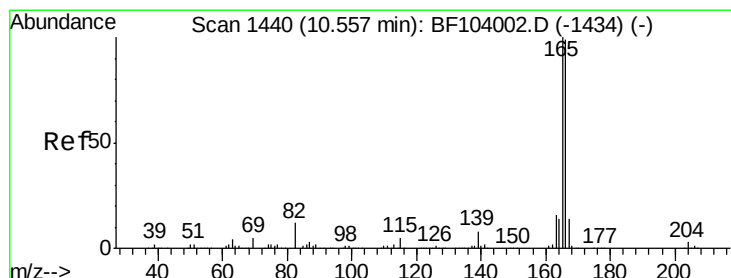
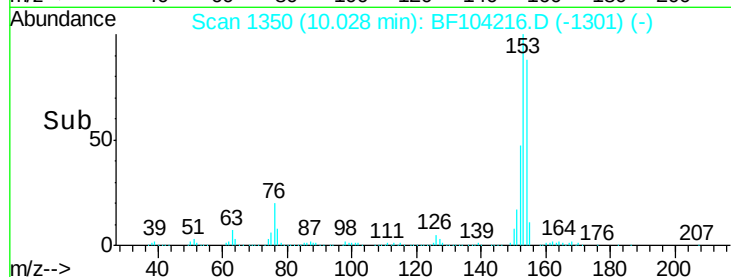
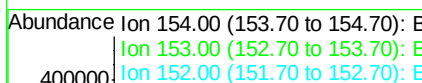
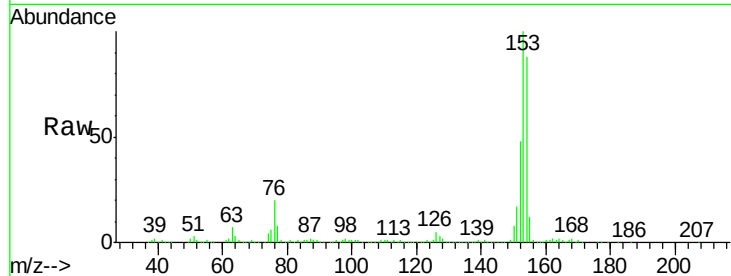
ClientSampleId :

A2_SB30_W_8DL

Tot Ion:	154	Resp:	290554
Ion Ratio	Lower	Upper	
154	100		
153	113.1	91.2	136.8
152	53.8	43.8	65.8

Manual Integrations
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#57

Fluorene

Concen: 13.082 ng

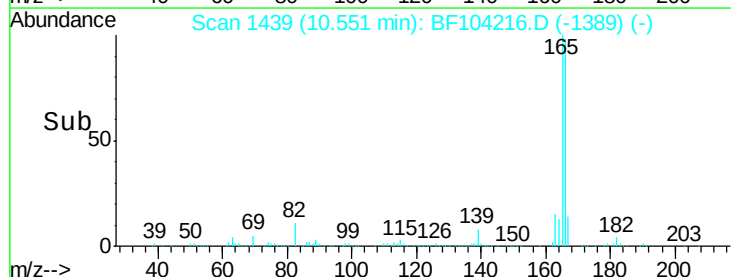
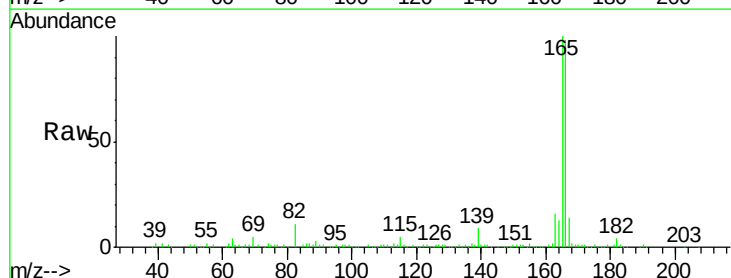
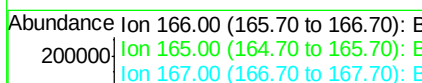
RT: 10.55 min Scan# 1439

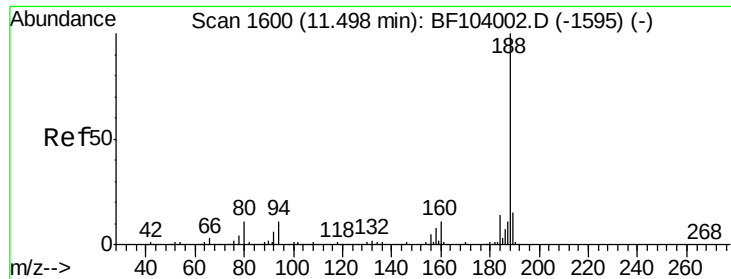
Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	166	Resp:	210127
Ion Ratio	Lower	Upper	
166	100		
165	102.5	79.8	119.8
167	14.7	10.6	16.0





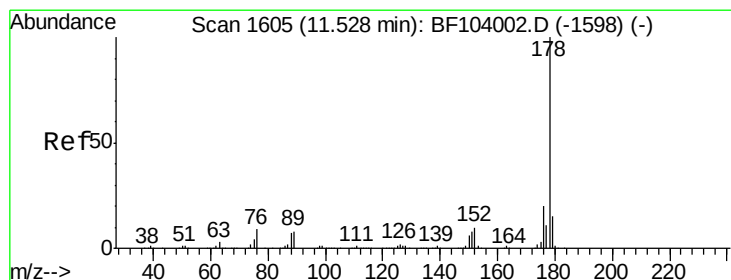
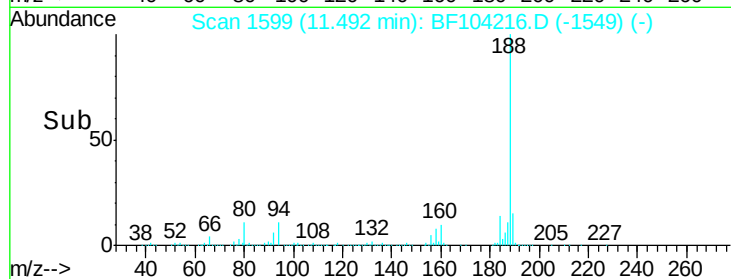
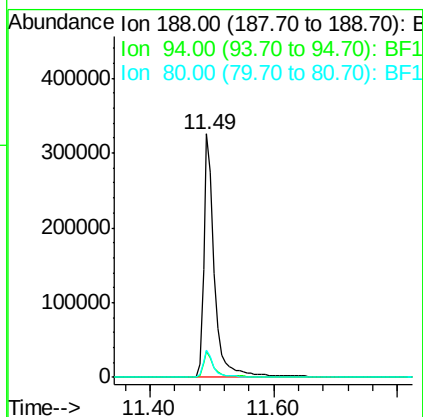
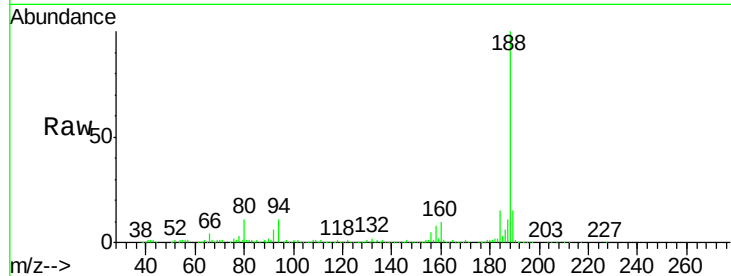
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	398165		
94	10.7		8.5	12.7
80	11.1		9.2	13.8

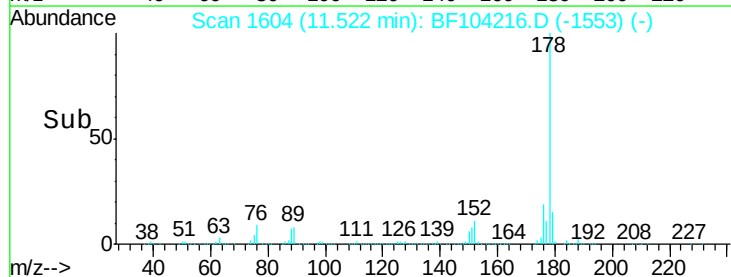
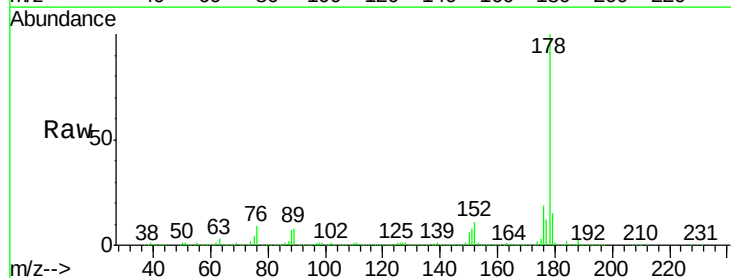
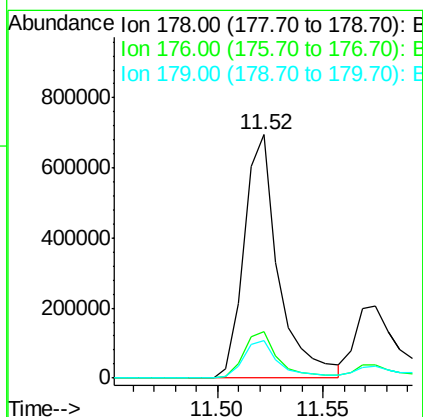
Manual Integrations
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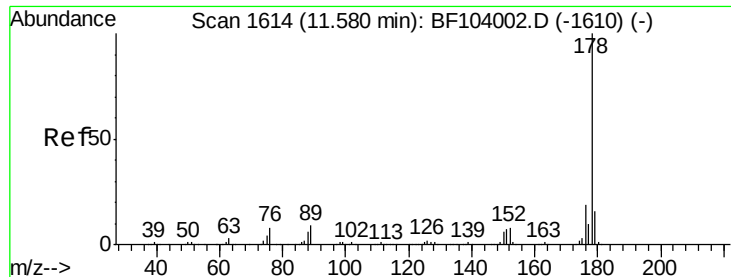
Sohil
4/4/2018 4:10:22 PM



#70
Phenanthrene
Concen: 36.562 ng
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	788160		
176	19.0		15.8	23.8
179	15.4		13.0	19.6





#71

Anthracene

Concen: 14.722 ng

RT: 11.57 min Scan# 1613

Delta R.T. 0.00 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

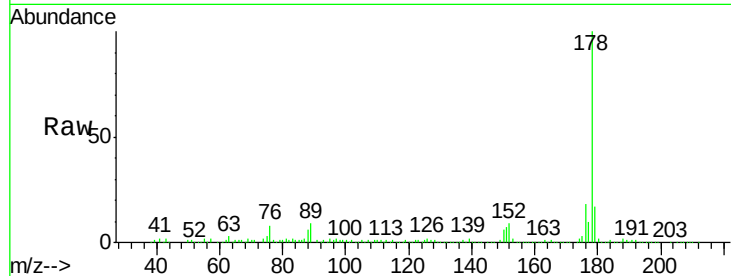
ClientSampleId :

A2_SB30_W_8DL

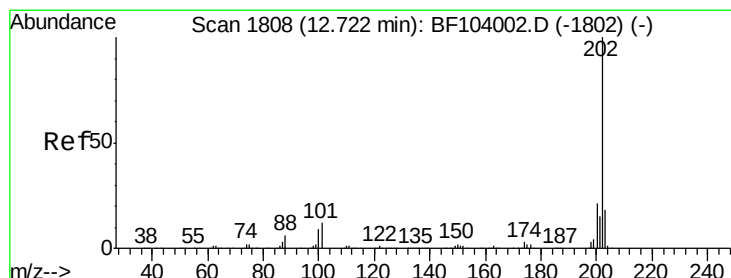
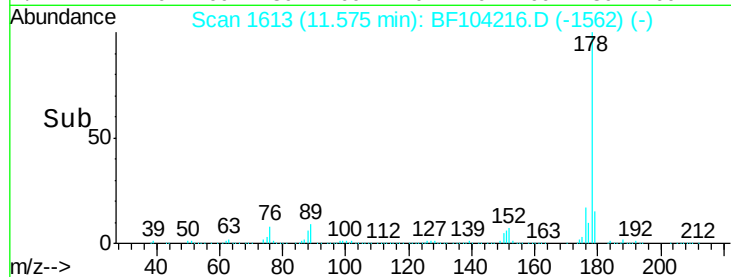
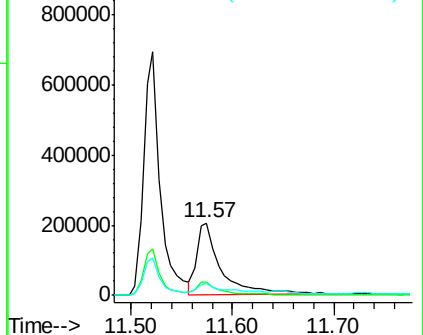
Tot Ion:	178	Resp:	331504
Ion Ratio	Lower	Upper	
178	100		
176	17.6	15.4	23.2
179	16.7	12.6	19.0

Manual Integrations
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4/4/2018 4:10:22 PM



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



#74

Fluoranthene

Concen: 13.868 ng

RT: 12.71 min Scan# 1806

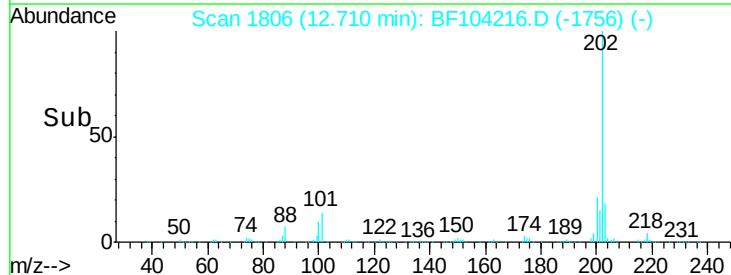
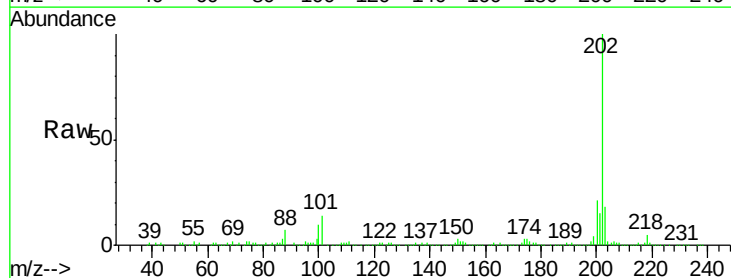
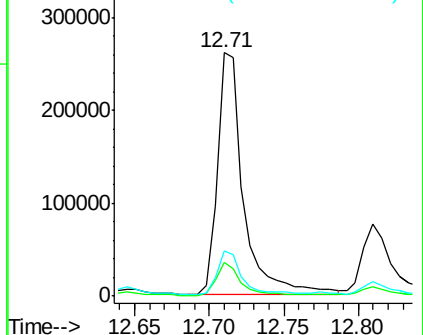
Delta R.T. -0.01 min

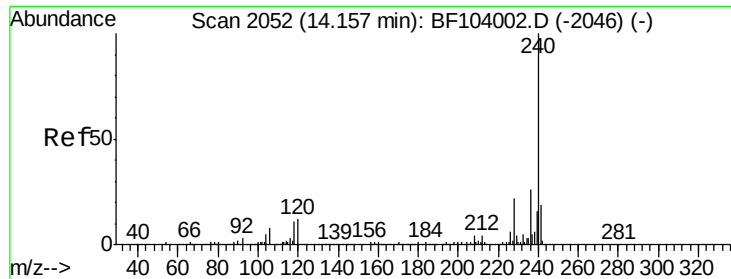
Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	202	Resp:	317770
Ion Ratio	Lower	Upper	
202	100		
101	13.8	0.0	34.1
203	18.4	0.0	38.1

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





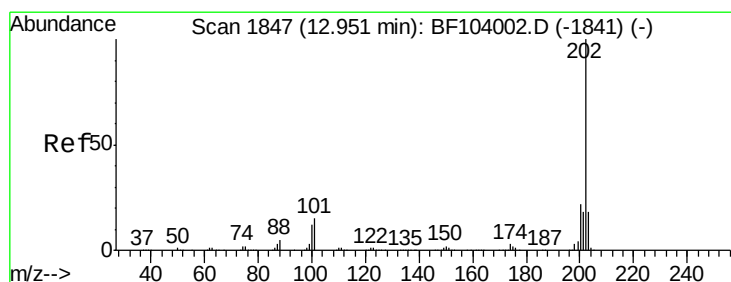
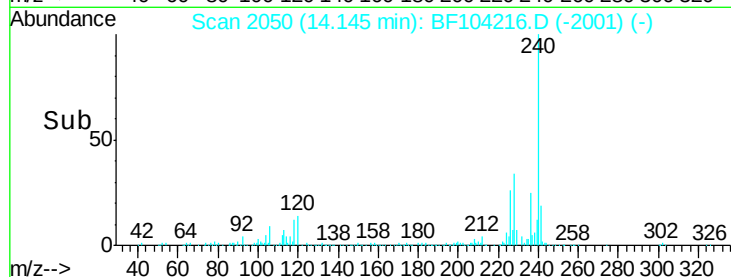
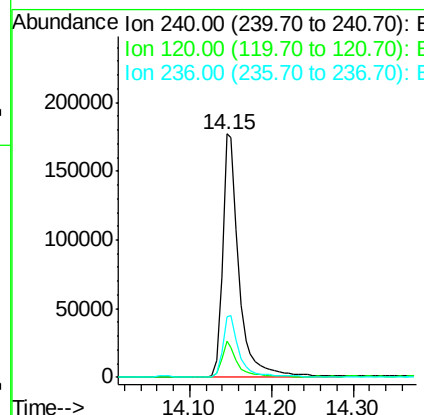
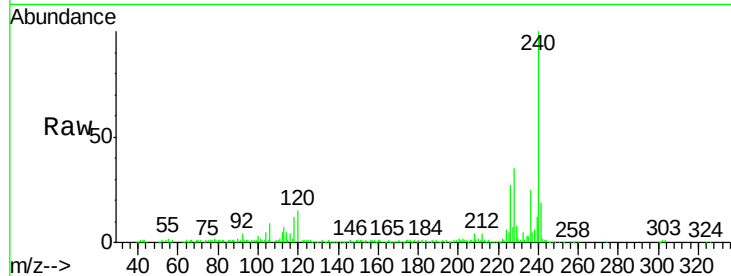
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.15 min Scan# 2050
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	250030		
120	14.7	9.5	14.3#	
236	25.1	20.7	31.1	

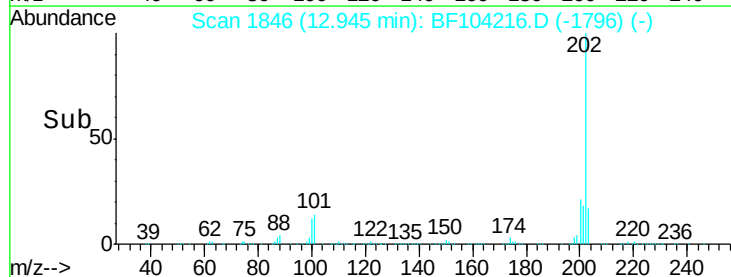
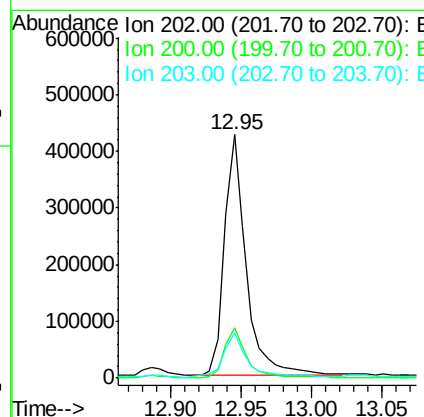
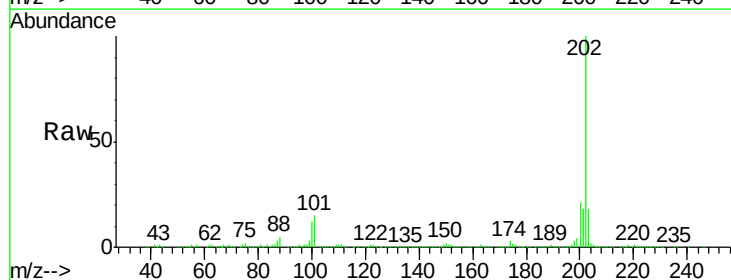
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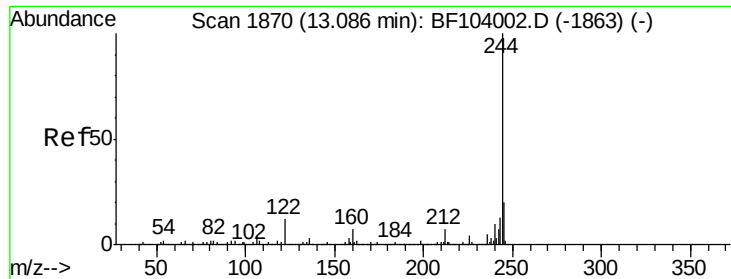
Sohil
4/4/2018 4:10:22 PM



#77
Pyrene
Concen: 25.242 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	453681		
200	20.8	17.4	26.2	
203	18.4	14.3	21.5	





#78

Terphenyl-d14

Concen: 18.399 ng

RT: 13.07 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

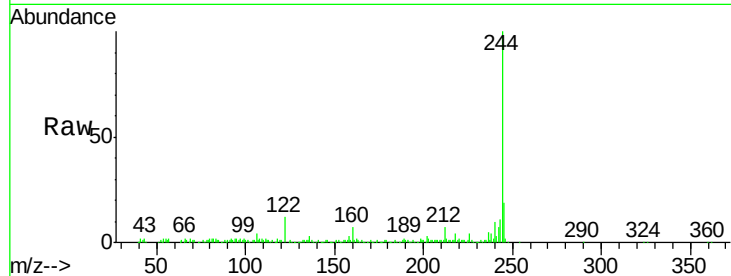
ClientSampleId :

A2_SB30_W_8DL

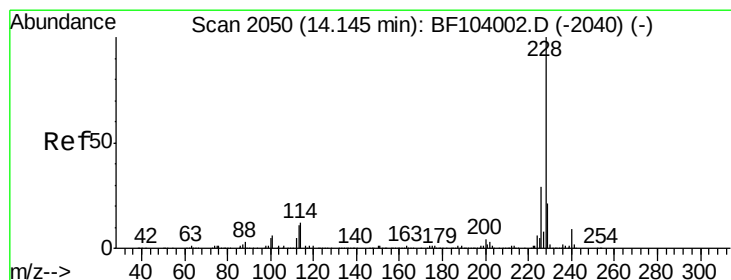
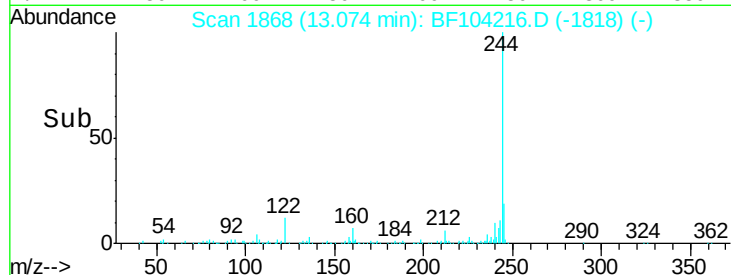
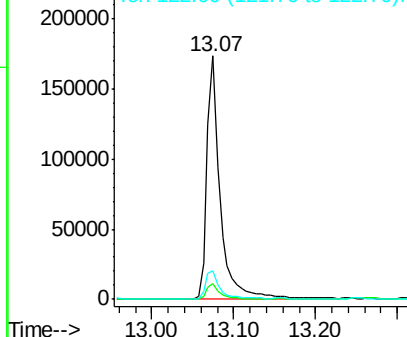
Tot Ion:	244	Resp:	199241
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	11.8	11.0	16.4

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4/4/2018 4:10:22 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 8.791 ng

RT: 14.14 min Scan# 2049

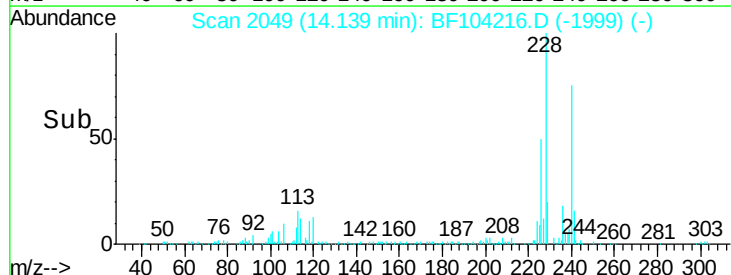
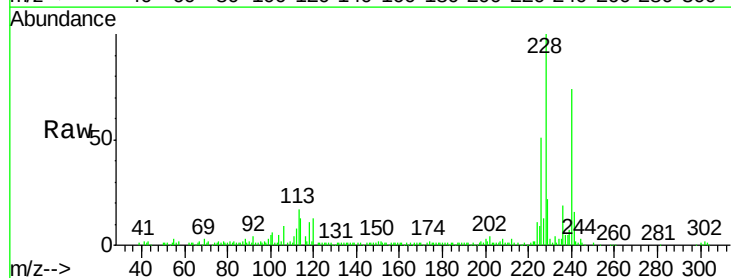
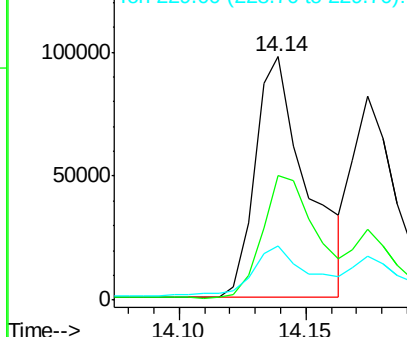
Delta R.T. -0.01 min

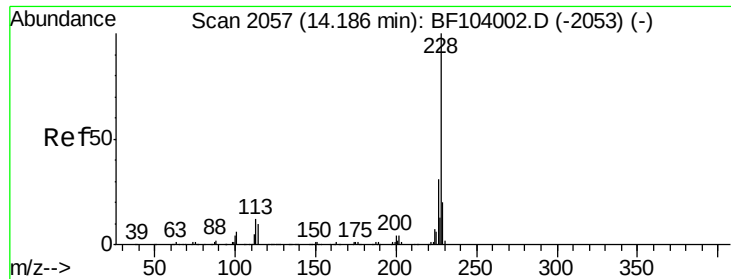
Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	228	Resp:	137530
Ion Ratio	Lower	Upper	
228	100		
226	51.0	22.6	33.8#
229	22.3	15.8	23.6

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





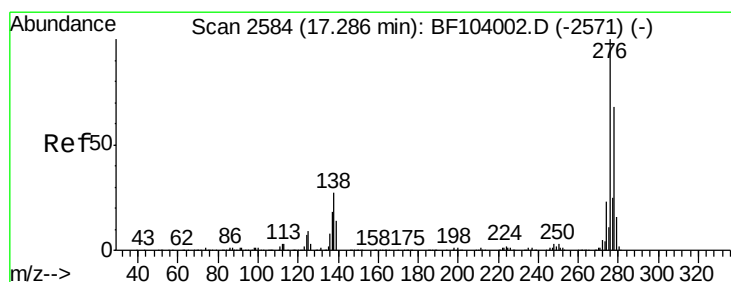
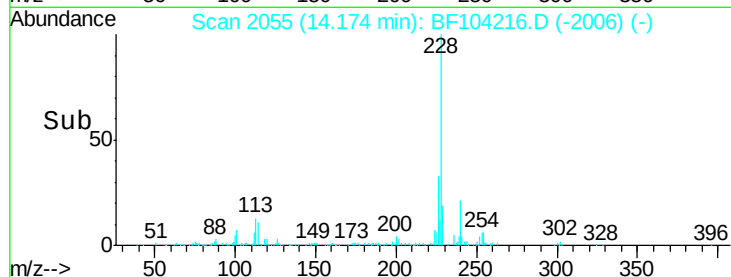
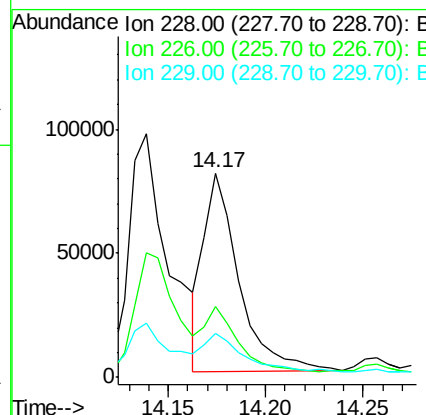
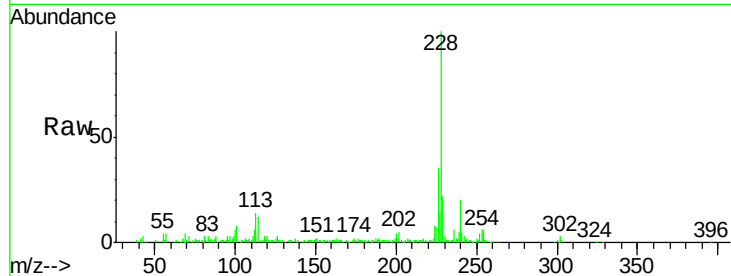
#82
Chrysene
Concen: 6.609 ng
RT: 14.17 min Scan# 2055
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	34.7	25.0	37.6		
229	21.8	16.2	24.4		

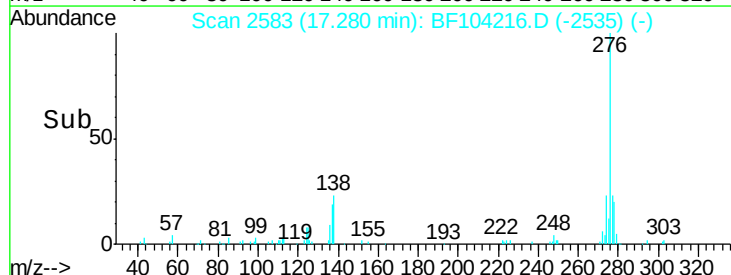
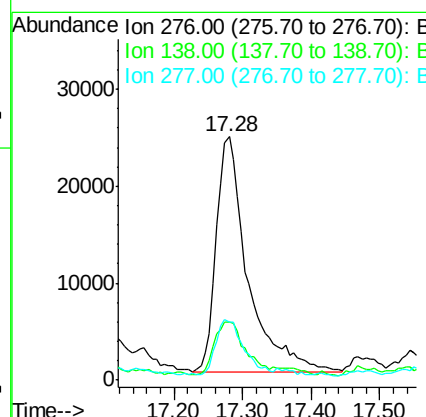
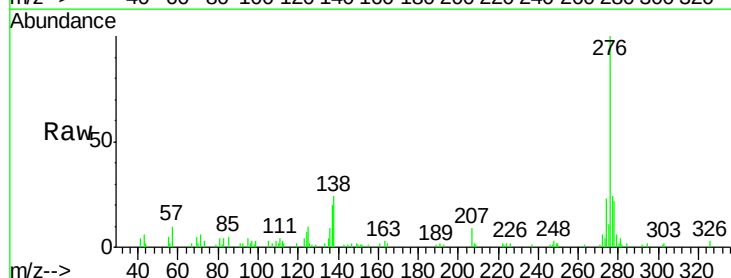
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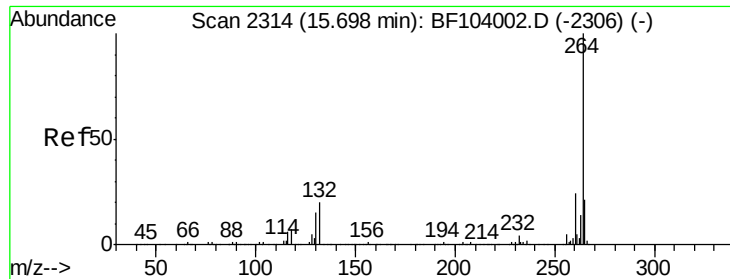
Sohil
4/4/2018 4:10:22 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 4.884 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
138	22.0	25.0	37.6#		
277	20.5	20.1	30.1		





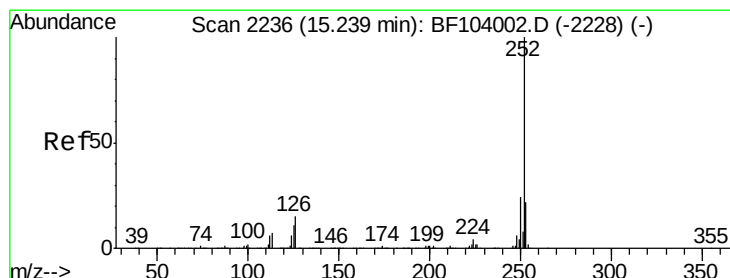
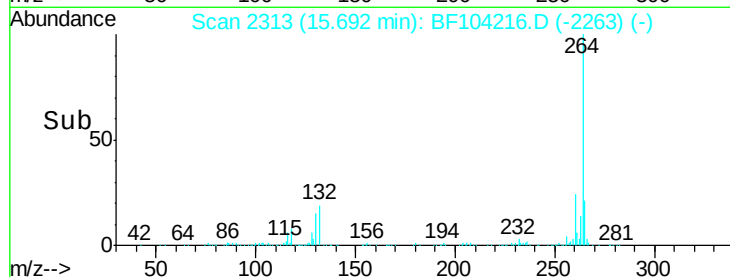
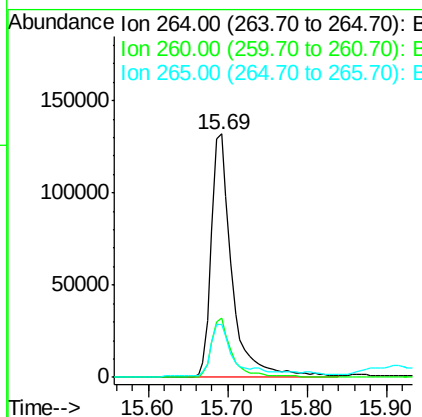
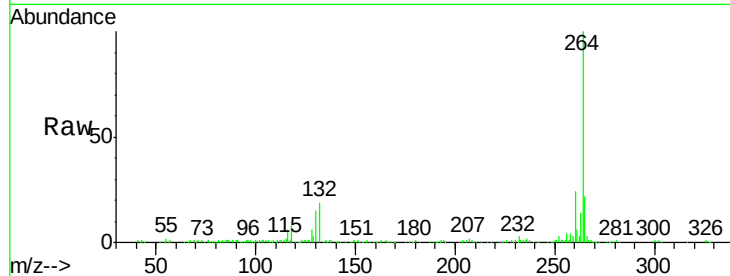
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :
A2_SB30_W_8DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	21.8	17.5	26.3

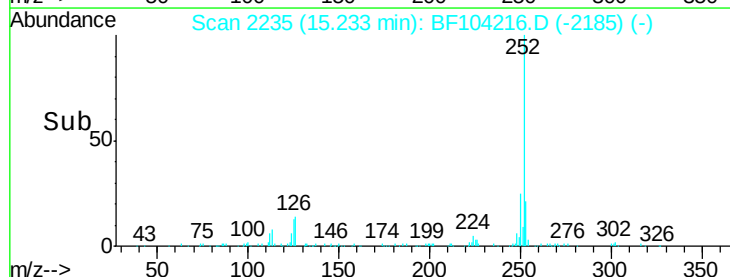
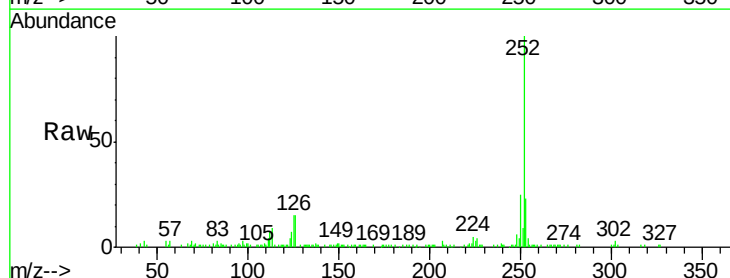
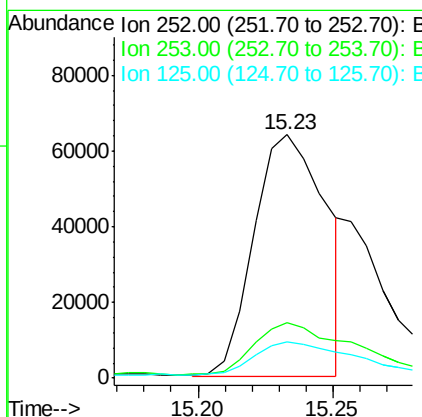
Manual Integrations
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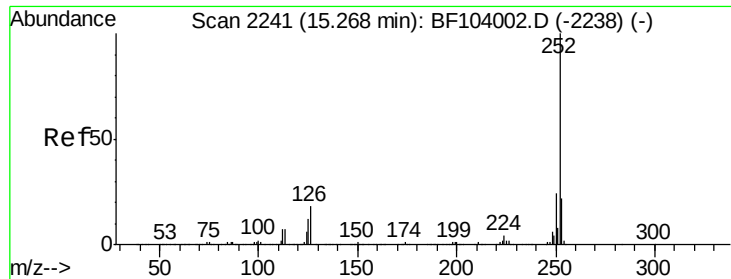
Sohil
4/4/2018 4:10:22 PM



#87
Benzo(b)fluoranthene
Concen: 8.034 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	15.0	9.0	13.6#





#88

Benzo(k)fluoranthene

Concen: 3.673 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.02 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

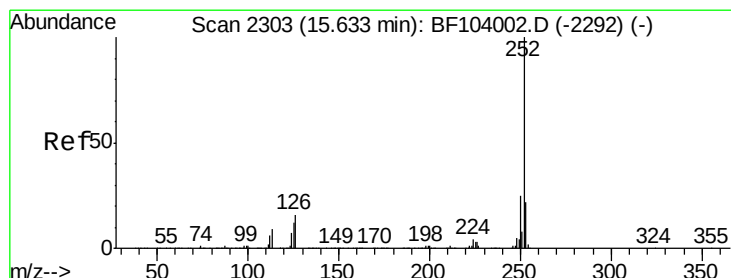
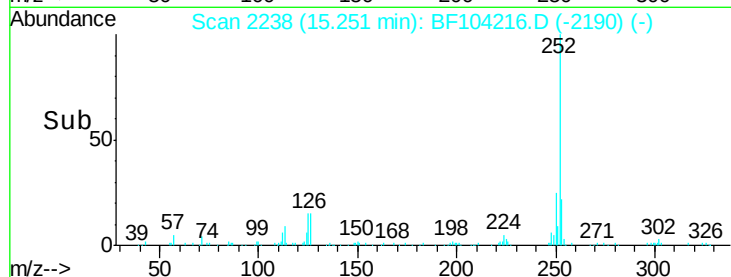
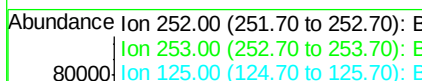
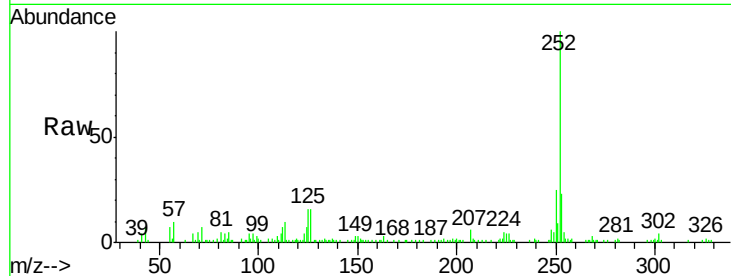
ClientSampleId :

A2_SB30_W_8DL

Tot Ion:	252	Resp:	50879
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.9	26.9
125	16.5	10.2	15.2

Manual Integrations
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Sohil
4/4/2018 4:10:22 PM



#89

Benzo(a)pyrene

Concen: 12.861 ng

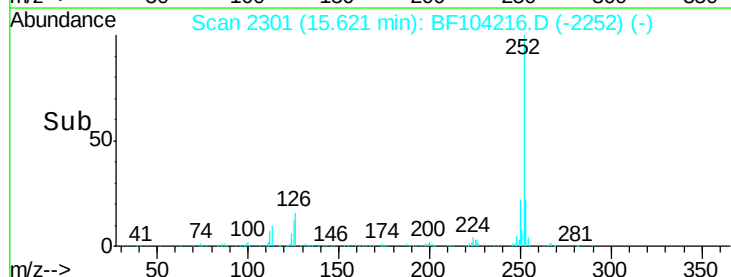
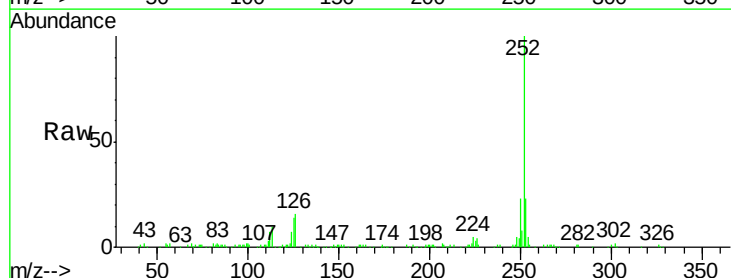
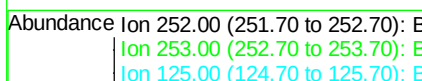
RT: 15.62 min Scan# 2301

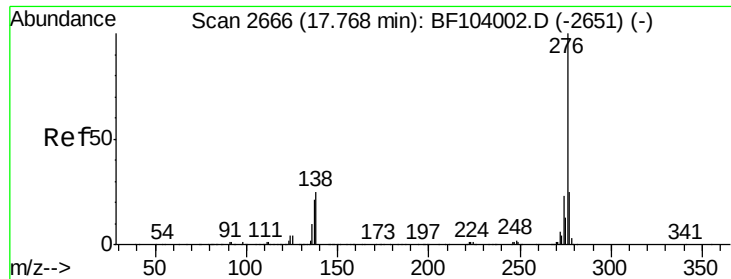
Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion:	252	Resp:	175276
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.1	25.7
125	13.5	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 6.452 ng
 RT: 17.76 min Scan# 2665
 Delta R.T. -0.02 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_W_8DL

Tot Ion:	276	Resp:	81434
Ion Ratio	Lower	Upper	
276	100		
277	25.1	17.9	26.9
138	26.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 4/4/2018 4:10:22 PM

