

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
 Data File : BF102984.D
 Acq On : 14 Feb 2018 12:54
 Operator : SJ/JU
 Sample : J1511-03 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MM-3

Manual Integrations
 APPROVED

Sohil
 2/15/2018 11:06:16 AM

Quant Time: Feb 14 15:45:34 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 00:38:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	167337	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	679681	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	267892	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	370121	20.00	ng	0.00
75) Chrysene-d12	14.04	240	282524	20.00	ng	0.00
86) Perylene-d12	15.53	264	257974	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	454053	41.21	ng	0.00
7) Phenol-d6	6.50	99	665655	50.17	ng	0.00
23) Nitrobenzene-d5	7.43	82	404381	41.27	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	25529	11.84	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	535064	33.14	ng	0.00
78) Terphenyl-d14	12.98	244	319043	26.74	ng	0.00
Target Compounds						
10) Phenol	6.51	94	42682	3.002	ng	Qvalue 94
31) Naphthalene	8.18	128	599350	18.048	ng	99
37) 2-Methylnaphthalene	8.87	142	150692	6.931	ng	96
51) Acenaphthene	9.95	154	125880	7.629	ng	100
54) Dibenzofuran	10.12	168	166852	7.176	ng	# 89
57) Fluorene	10.46	166	136617	8.075	ng	100
70) Phenanthrene	11.43	178	1248579	60.571	ng	99
71) Anthracene	11.48	178	307945	14.688	ng	100
72) Carbazole	11.63	167	126867	6.177	ng	99
73) Di-n-butylphthalate	11.96	149	66807	2.678	ng	97
74) Fluoranthene	12.62	202	810588	39.084	ng	99
77) Pyrene	12.85	202	837375	37.797	ng	99
79) Butylbenzylphthalate	13.46	149	11453	2.082	ng	# 87
80) Benzo(a)anthracene	14.03	228	383645	21.592	ng	98
82) Chrysene	14.07	228	353796	19.753	ng	98
83) Bis(2-ethylhexyl)phthalate	14.01	149	50462	3.718	ng	96
85) Indeno(1,2,3-cd)pyrene	17.02	276	114886	7.734	ng	97
87) Benzo(b)fluoranthene	15.09	252	335187m	20.041	ng	
88) Benzo(k)fluoranthene	15.12	252	103572m	6.481	ng	
89) Benzo(a)pyrene	15.46	252	249992	16.605	ng	# 92
90) Dibenzo(a,h)anthracene	17.03	278	29941	2.450	ng	# 74
91) Benzo(g,h,i)perylene	17.47	276	132071	11.042	ng	96

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

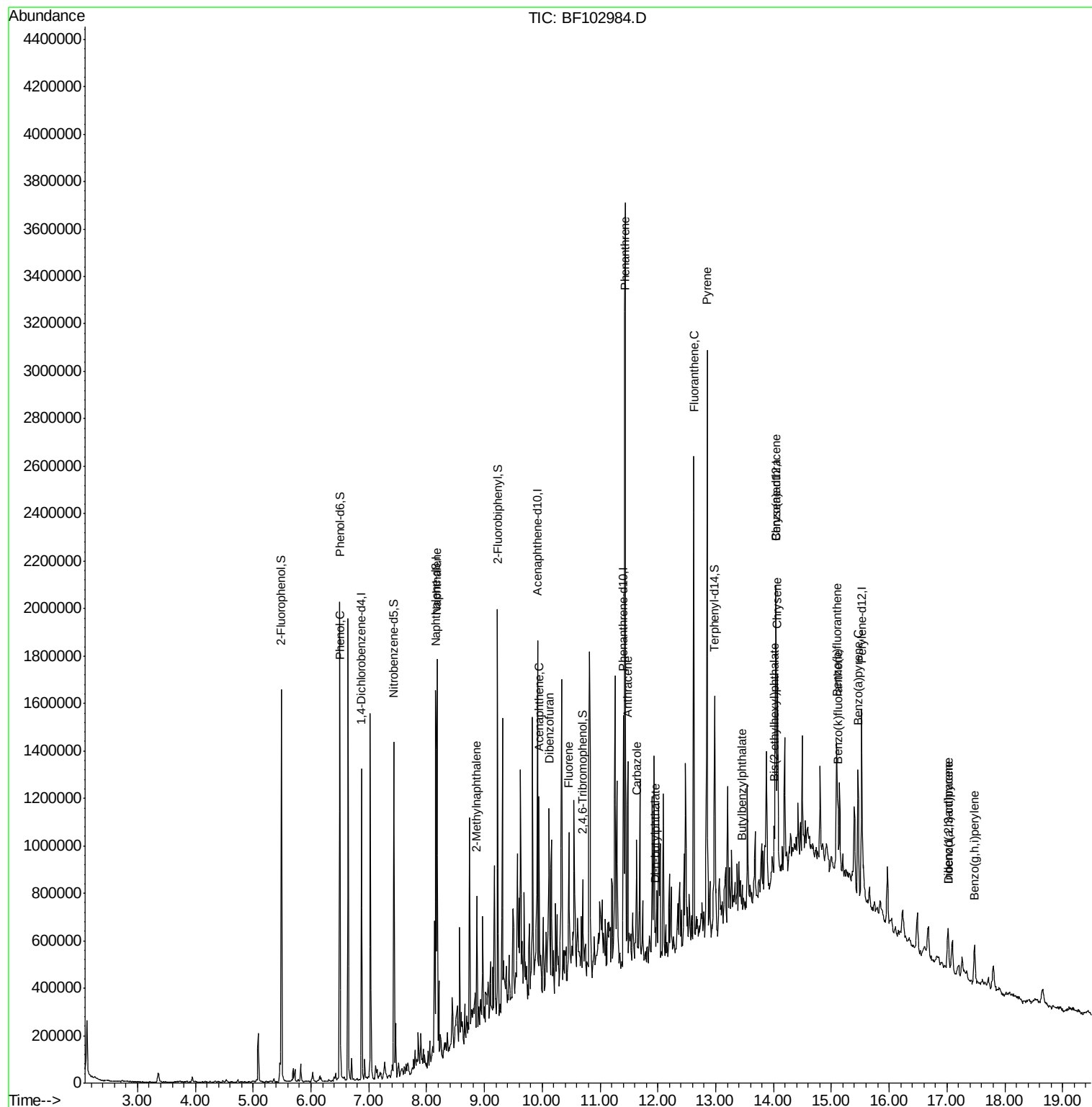
Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
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Misc :
ALS Vial : 9 Sample Multiplier: 1

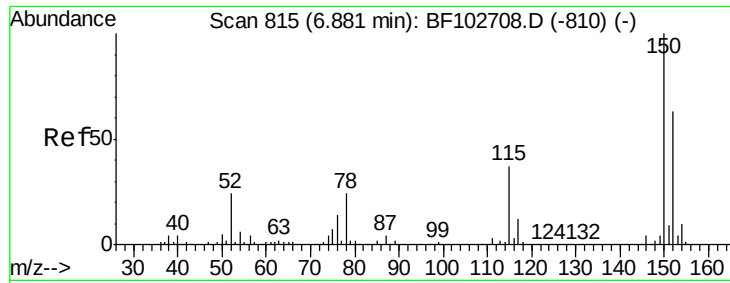
Instrument :
BNA_F
ClientSampleId :
MM-3

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2/15/2018 11:06:16 AM

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

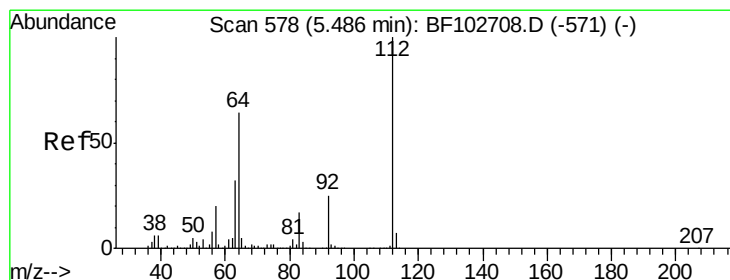
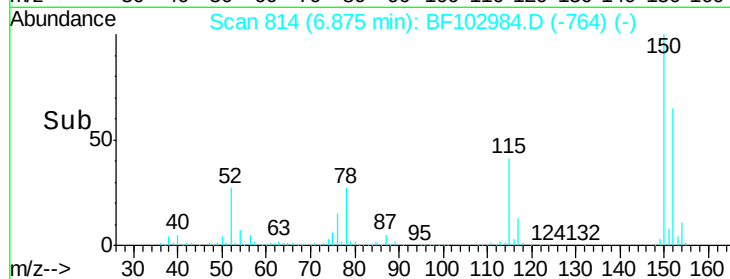
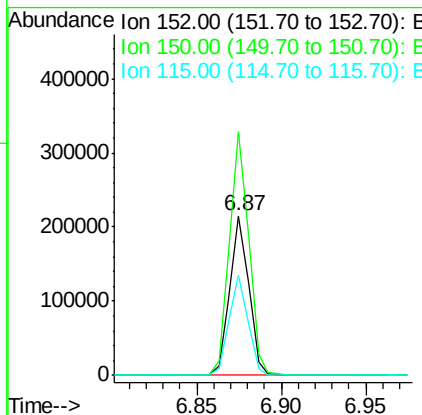
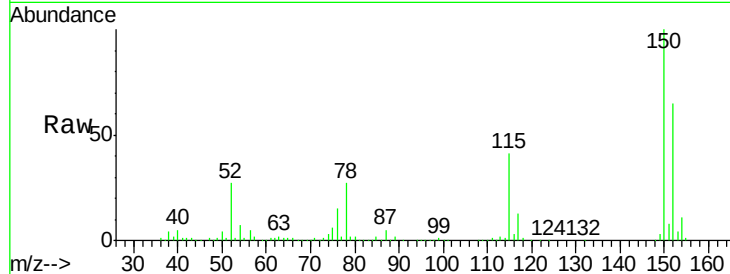
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.6	186.8
115	63.2	50.1	75.1

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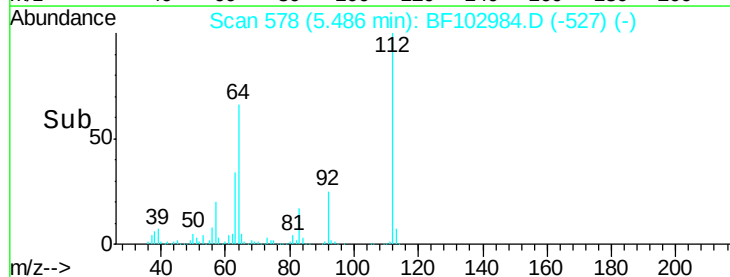
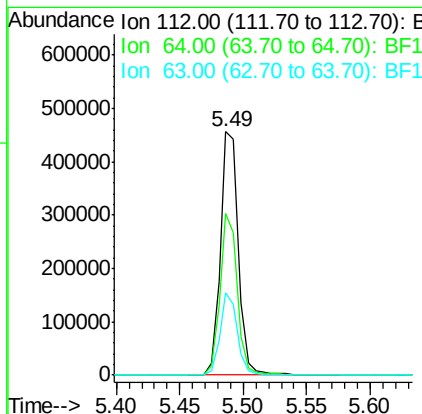
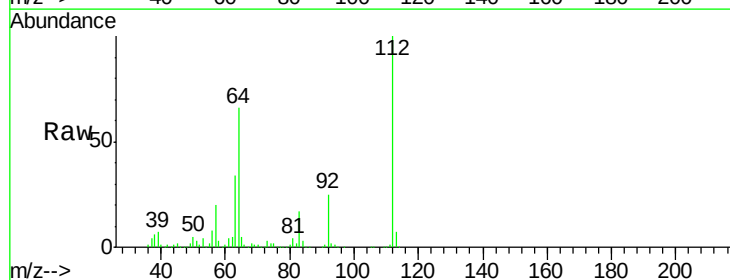
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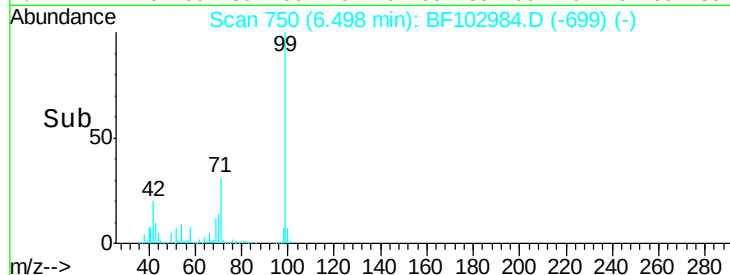
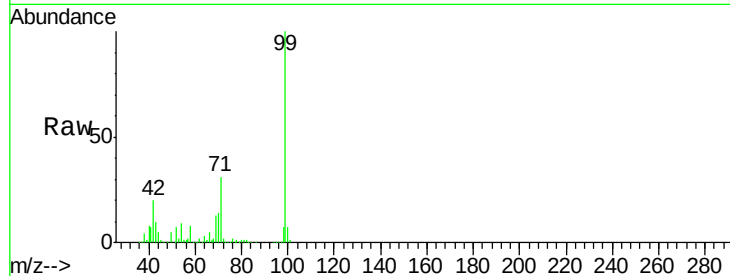
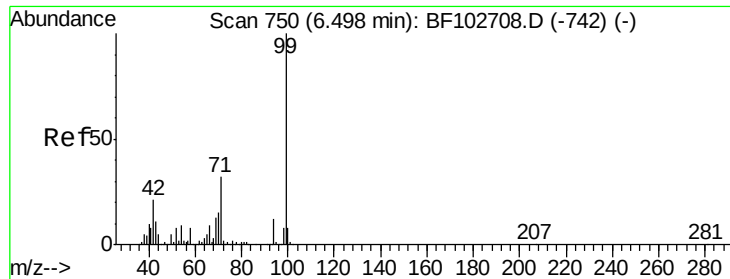


#5

2-Fluorophenol
Concen: 41.208 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.00 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.4	47.9	71.9
63	33.8	23.7	35.5





#7

Phenol-d6

Concen: 50.173 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tot Ion:	99	Resp:	665655
Ion Ratio	Lower	Upper	
99	100		
42	20.2	14.5	21.7
71	31.3	25.4	38.0

Instrument :

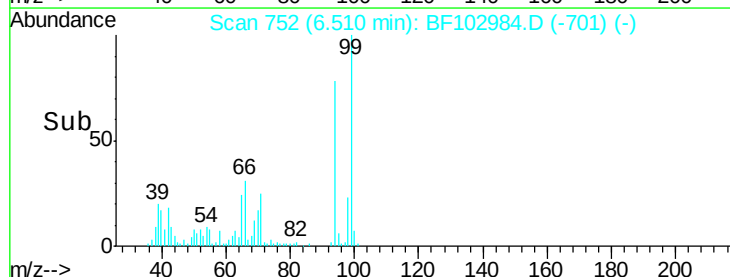
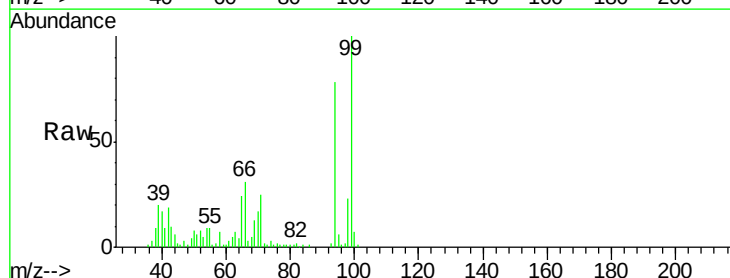
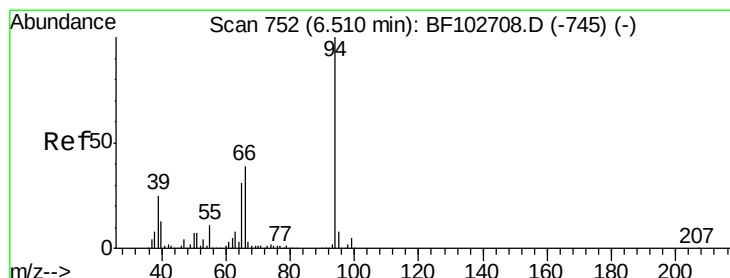
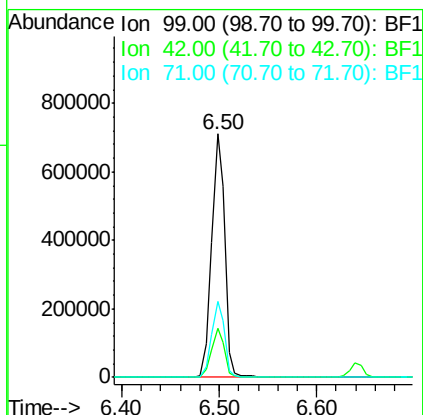
BNA_F

ClientSampleId :

MM-3

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#10

Phenol

Concen: 3.002 ng

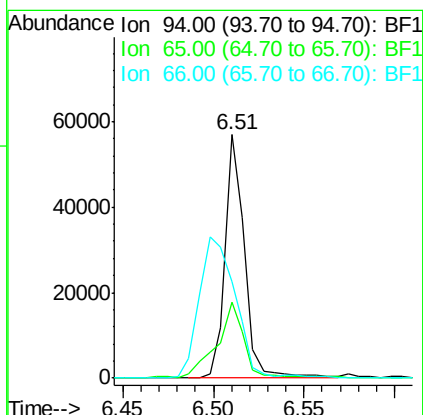
RT: 6.51 min Scan# 752

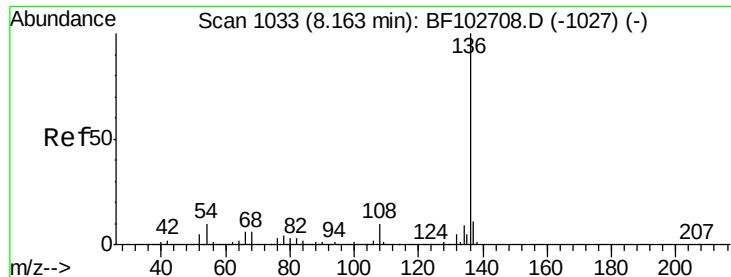
Delta R.T. -0.00 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion:	94	Resp:	42682
Ion Ratio	Lower	Upper	
94	100		
65	31.4	7.9	47.9
66	39.5	16.2	56.2





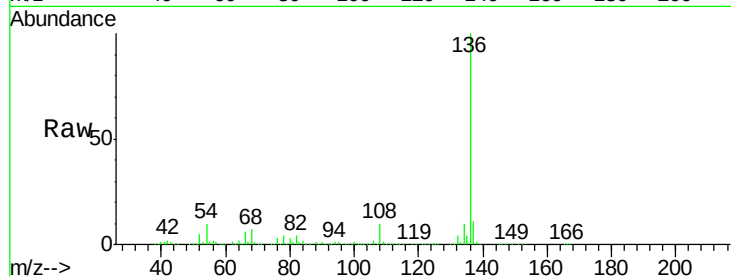
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

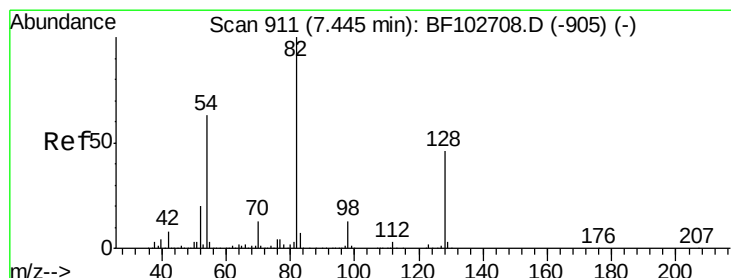
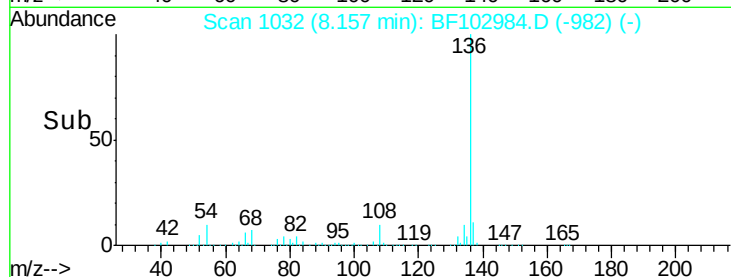
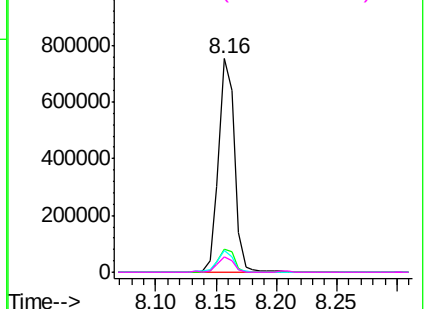
Tot Ion	Ratio	Resp	Lower	Upper
136	100	679681		
137	11.0	8.9	13.3	
54	10.1	6.6	9.8	
68	7.1	5.0	7.4	

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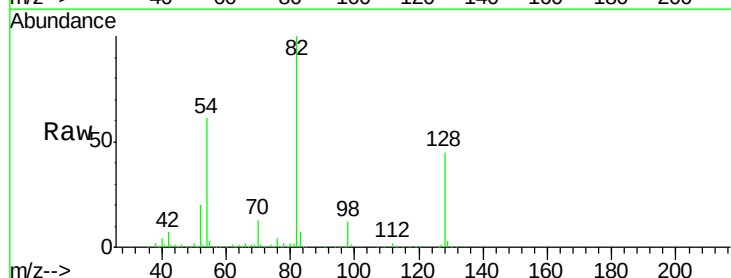


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

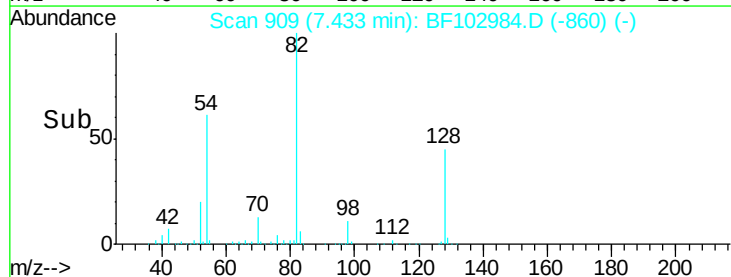
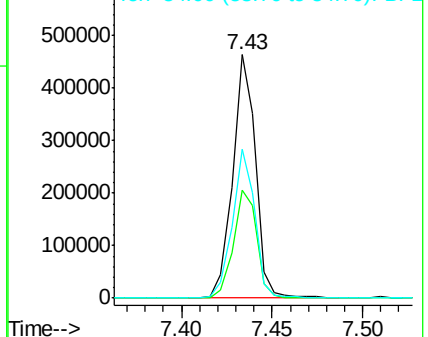


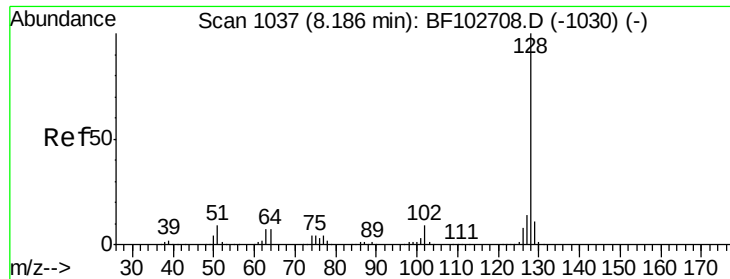
#23
Nitrobenzene-d5
Concen: 41.273 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	404381		
128	44.6	36.1	54.1	
54	61.2	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: 18.048 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Instrument :

BNA_F

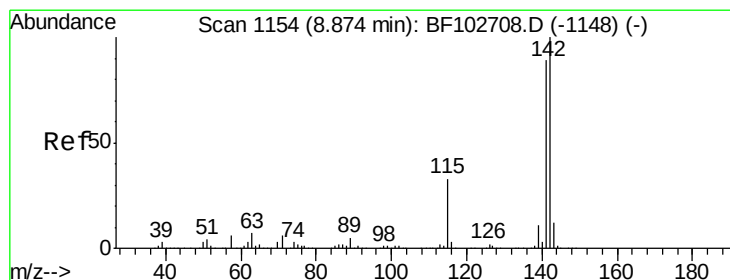
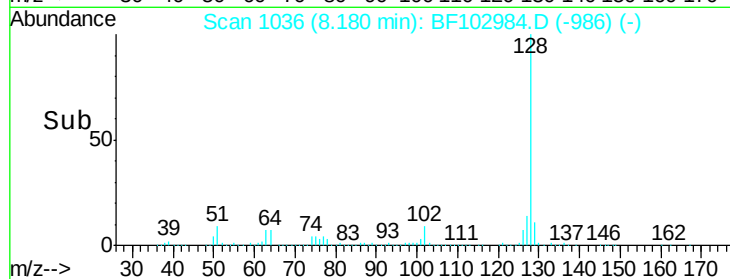
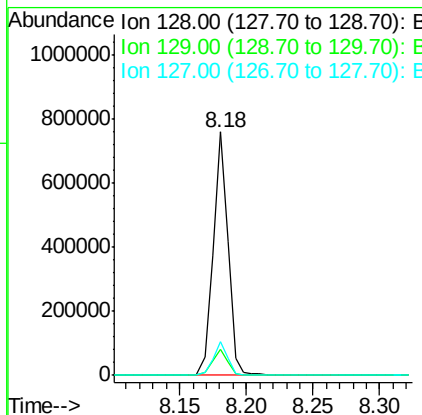
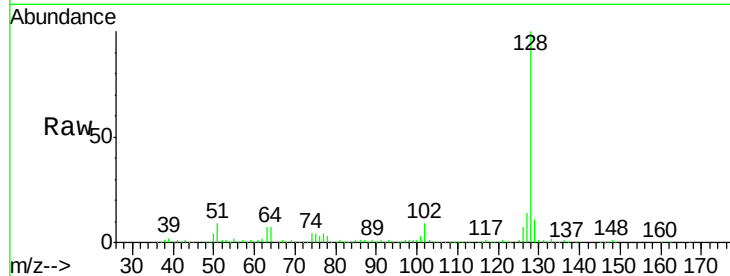
ClientSampled :

MM-3

Tot Ion:	128	Resp:	599350
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	13.9	10.9	16.3

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#37

2-Methylnaphthalene

Concen: 6.931 ng

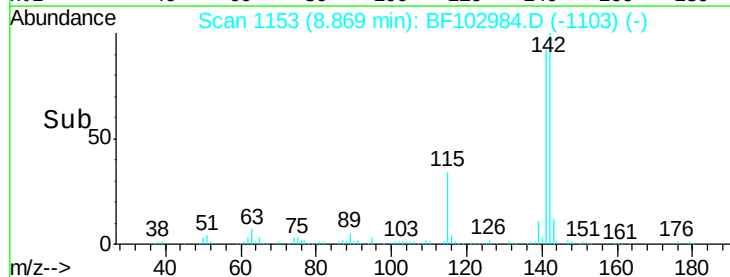
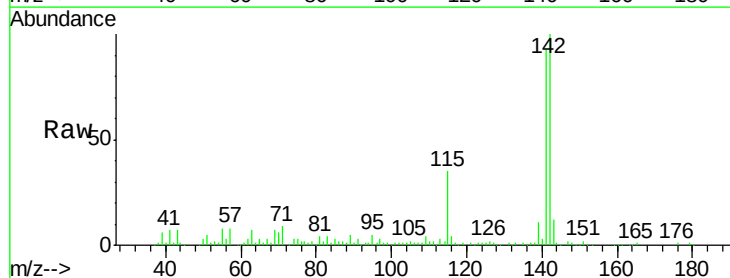
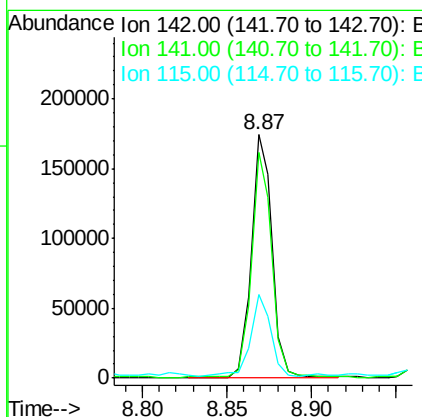
RT: 8.87 min Scan# 1153

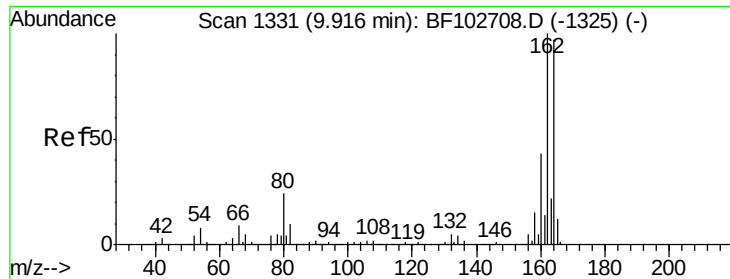
Delta R.T. -0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion:	142	Resp:	150692
Ion Ratio	Lower	Upper	
142	100		
141	92.6	70.8	106.2
115	34.6	26.1	39.1





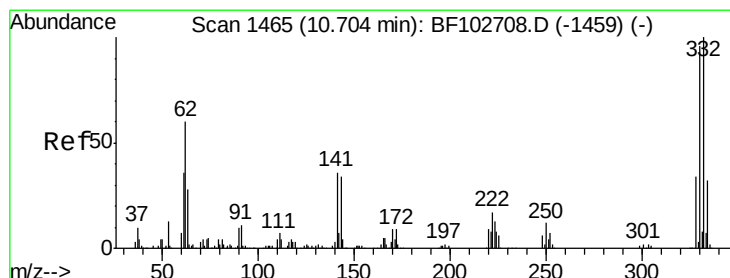
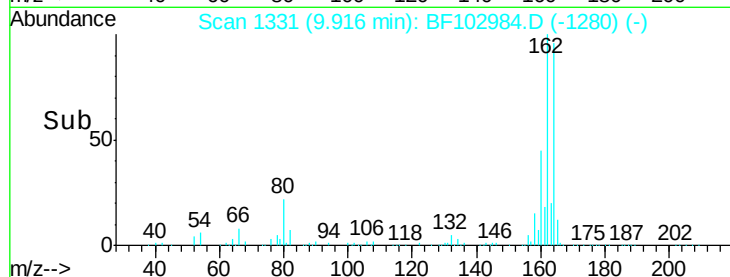
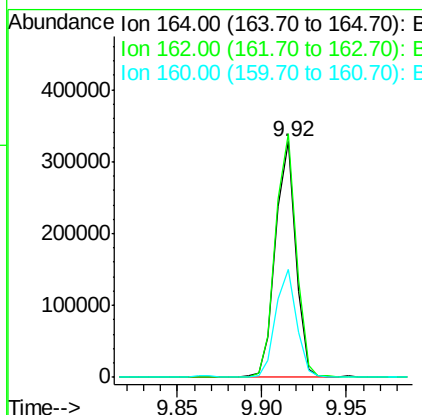
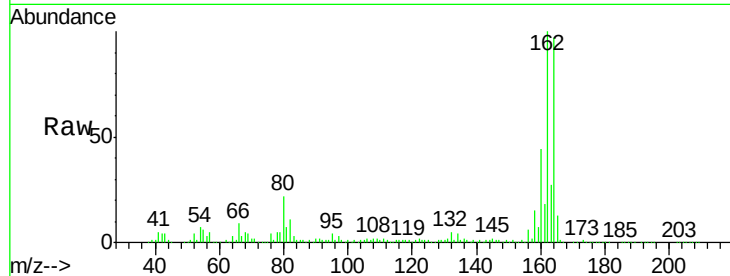
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.00 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.4	86.1	129.1	
160	46.0	38.3	57.5	

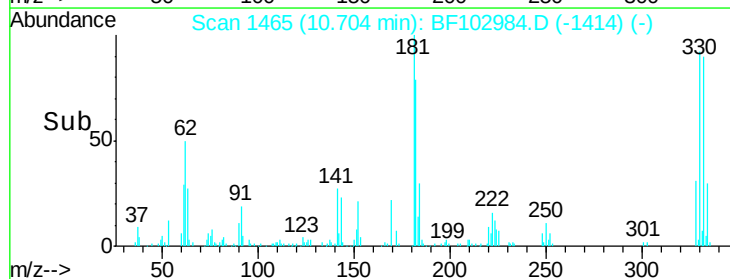
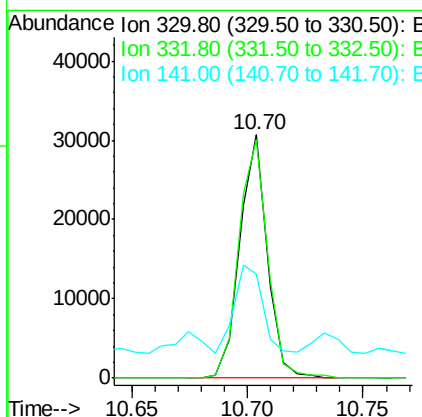
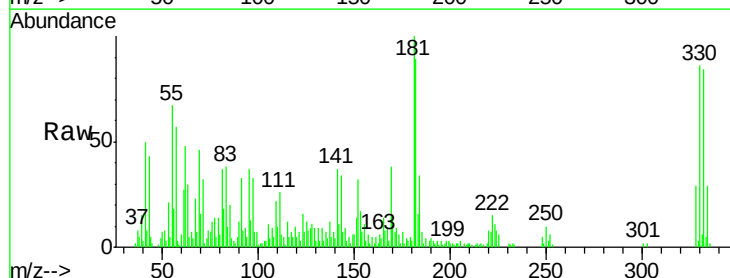
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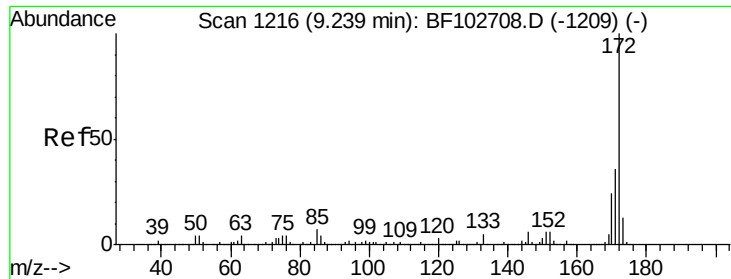
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#41
2,4,6-Tribromophenol
Concen: 11.840 ng
RT: 10.70 min Scan# 1465
Delta R.T. 0.00 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.9	77.0	115.6	
141	37.5	29.9	44.9	





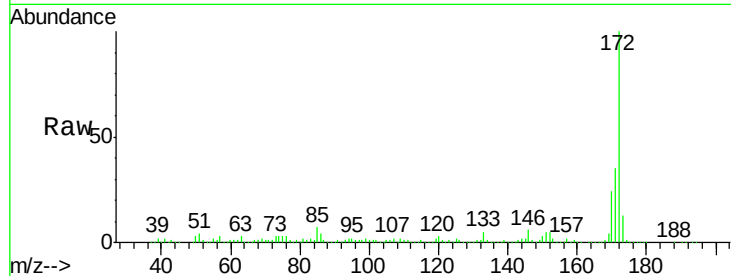
#44
2-Fluorobiphenyl
Concen: 33.143 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampleId :
MM-3

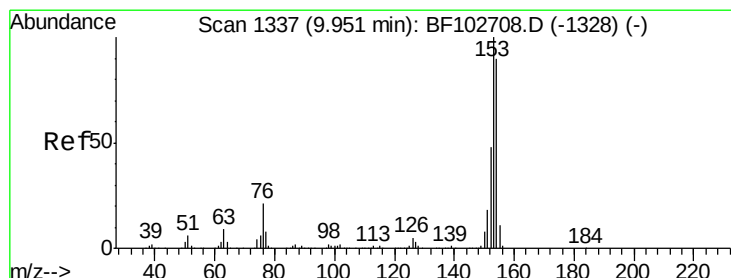
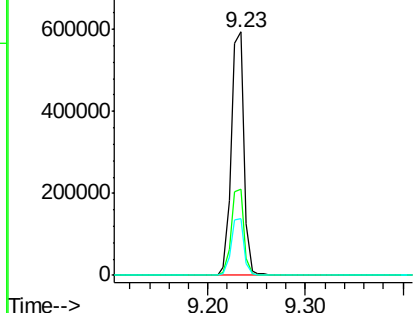
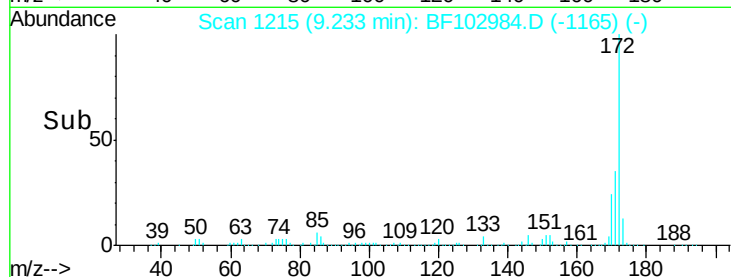
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.7	44.5
170	23.5	19.6	29.4

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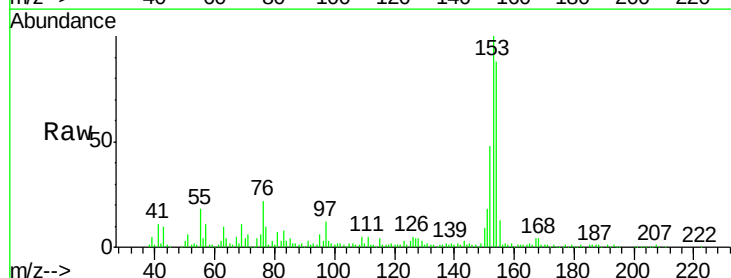


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

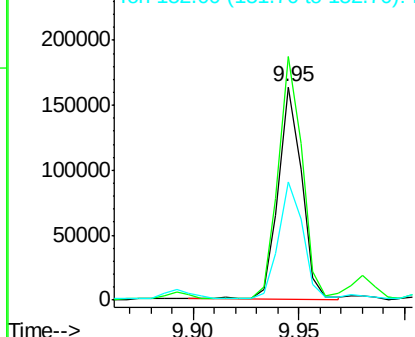
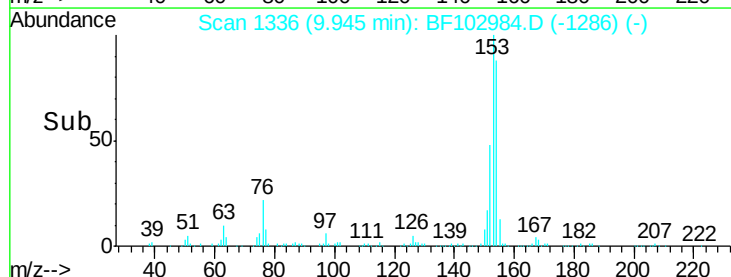


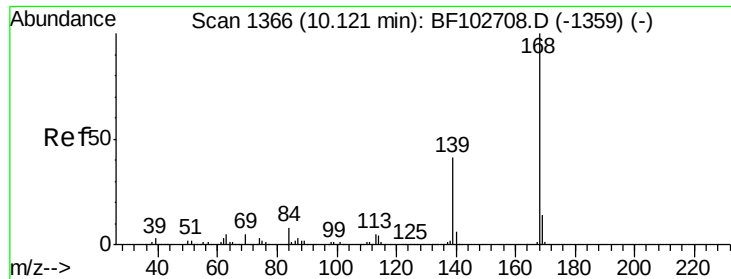
#51
Acenaphthene
Concen: 7.629 ng
RT: 9.95 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.1	91.2	136.8
152	55.3	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 7.176 ng

RT: 10.12 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Instrument :

BNA_F

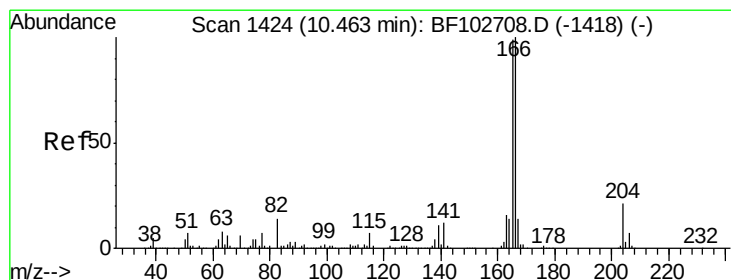
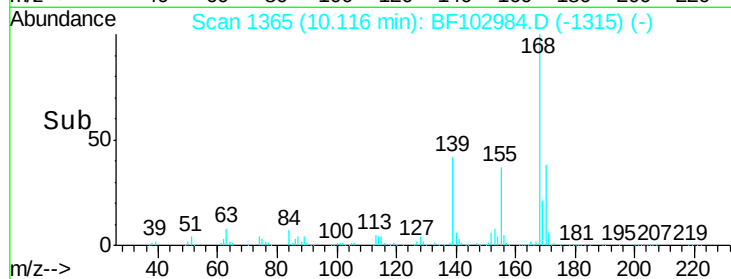
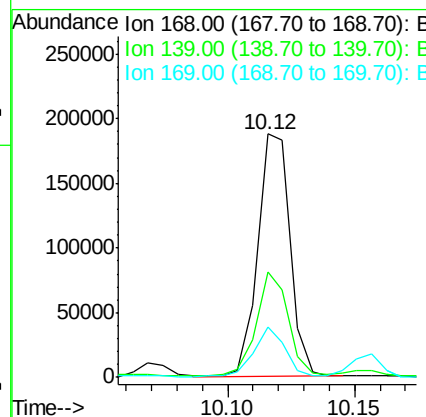
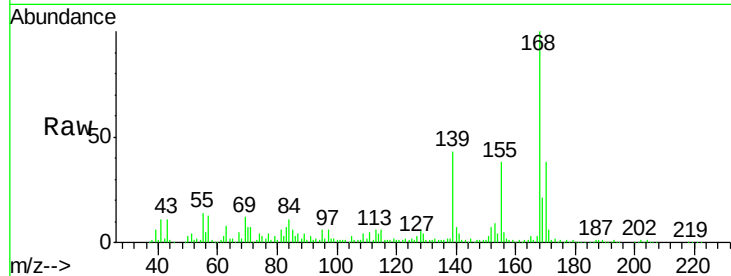
ClientSampled :

MM-3

Tot Ion:	168	Resp:	166852
Ion Ratio	Lower	Upper	
168	100		
139	43.1	30.1	45.1
169	20.7	10.9	16.3#

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#57

Fluorene

Concen: 8.075 ng

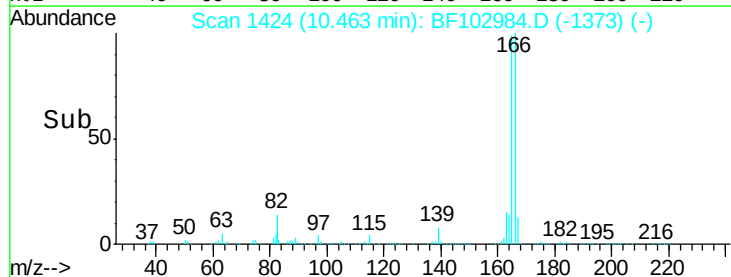
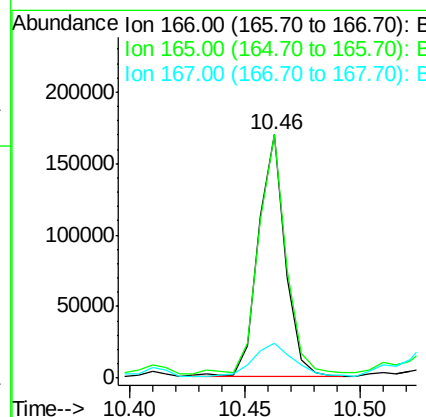
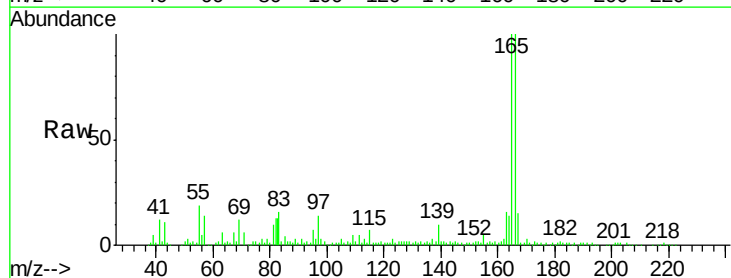
RT: 10.46 min Scan# 1424

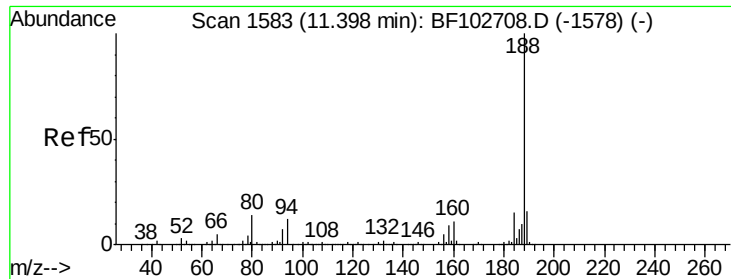
Delta R.T. -0.00 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion:	166	Resp:	136617
Ion Ratio	Lower	Upper	
166	100		
165	99.8	79.8	119.8
167	14.6	10.6	16.0





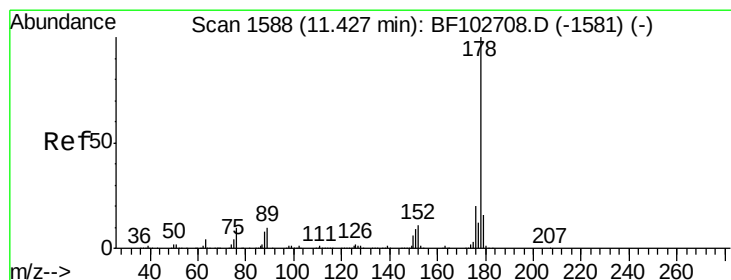
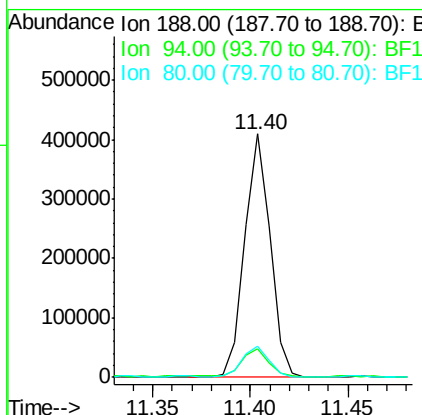
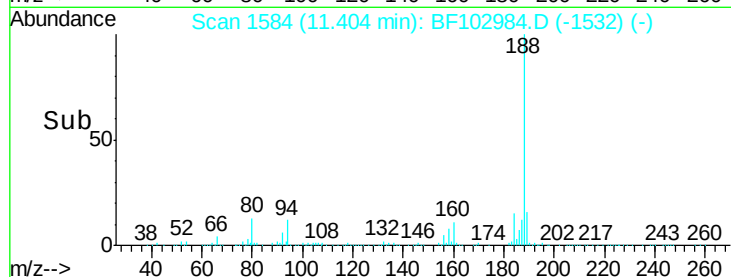
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

Tot Ion	Ratio	Resp	Lower	Upper
188	100	370121		
94	12.0		8.5	12.7
80	13.0		9.2	13.8

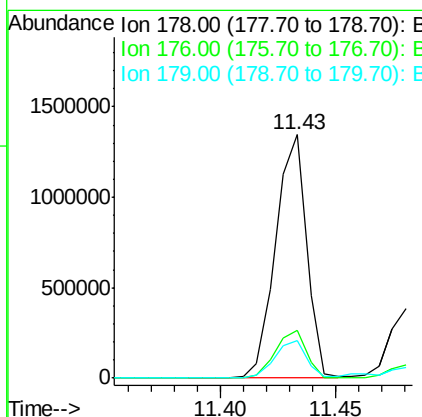
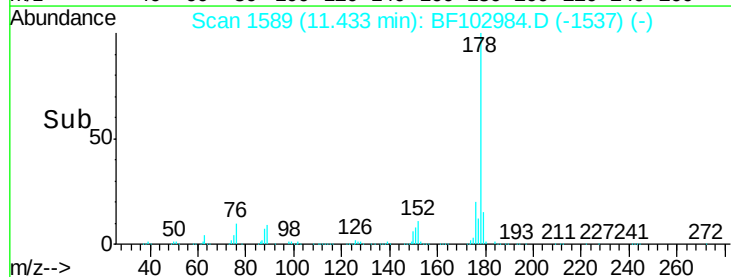
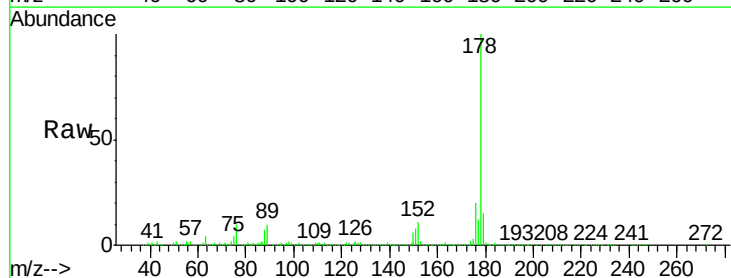
Manual Integrations
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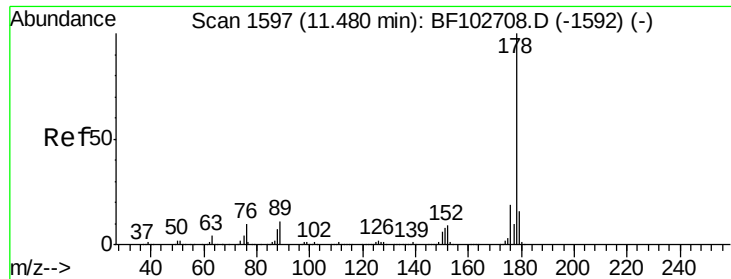
Sohil
2/15/2018 11:06:16 AM



#70
Phenanthrene
Concen: 60.571 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1248579		
176	19.9		15.8	23.8
179	15.5		13.0	19.6





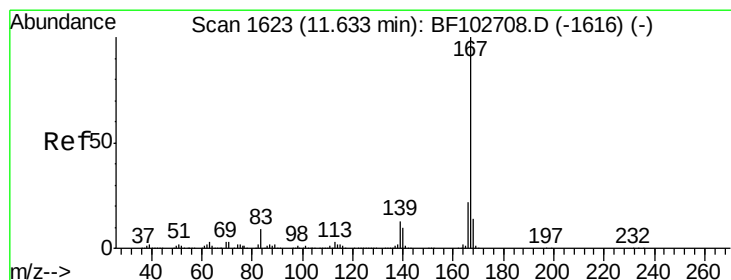
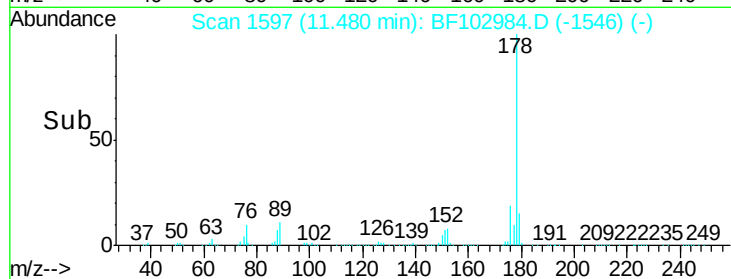
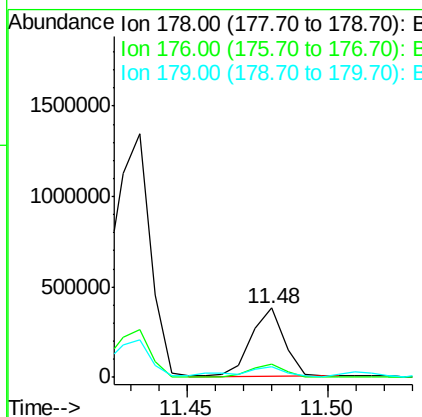
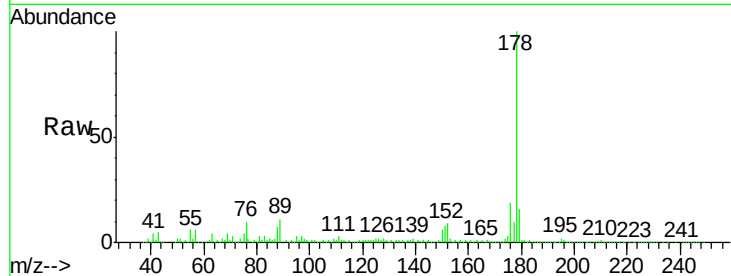
#71
 Anthracene
 Concen: 14.688 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.00 min
 Lab File: BF102984.D
 Acq: 14 Feb 2018 12:54

Instrument :
 BNA_F
 ClientSampleId :
 MM-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	16.0	12.6	19.0

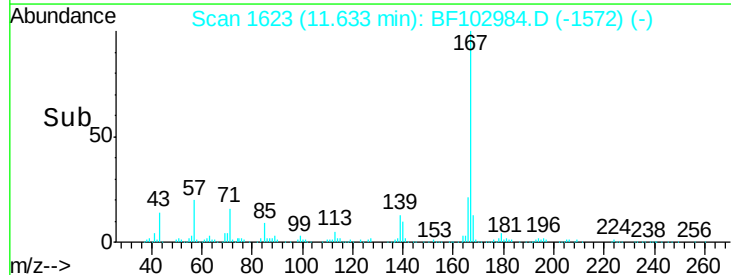
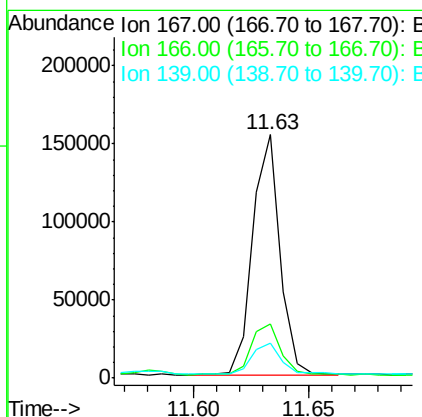
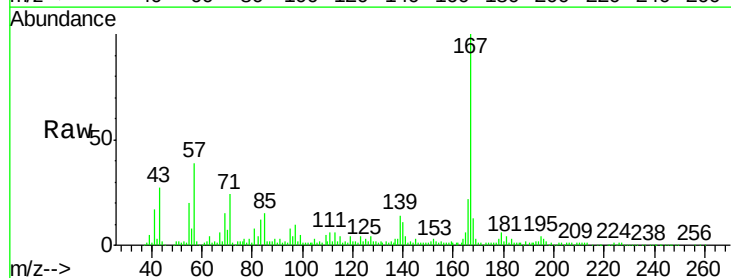
Manual Integrations
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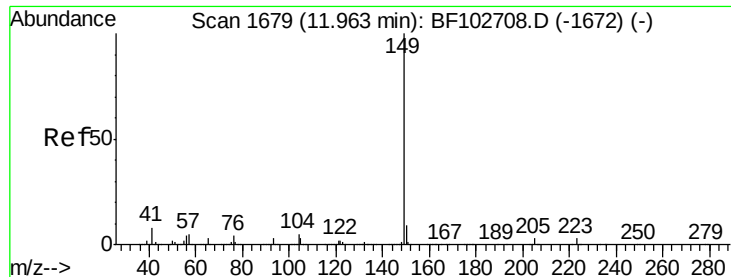
Sohil
 2/15/2018 11:06:16 AM



#72
 Carbazole
 Concen: 6.177 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.00 min
 Lab File: BF102984.D
 Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.6	26.4
139	14.1	10.9	16.3





#73

Di-n-butylphthalate

Concen: 2.678 ng

RT: 11.96 min Scan# 1678

Delta R.T. -0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Instrument :

BNA_F

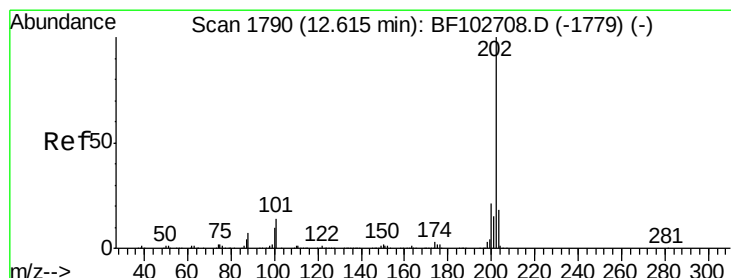
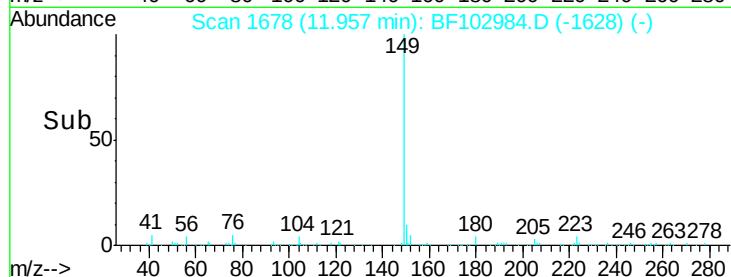
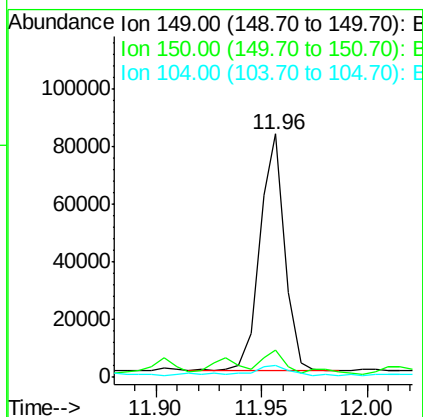
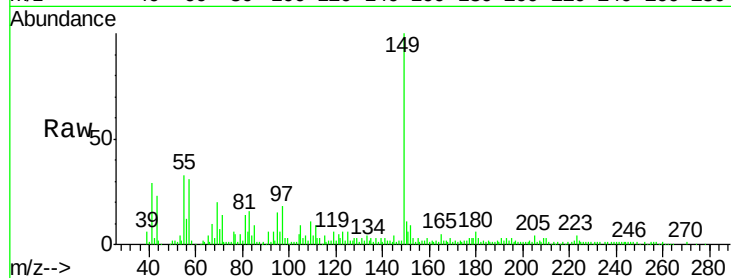
ClientSampled :

MM-3

Tot Ion:	149	Resp:	66807
Ion Ratio	Lower	Upper	
149	100		
150	11.0	7.8	11.6
104	5.1	3.8	5.8

Manual Integrations
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#74

Fluoranthene

Concen: 39.084 ng

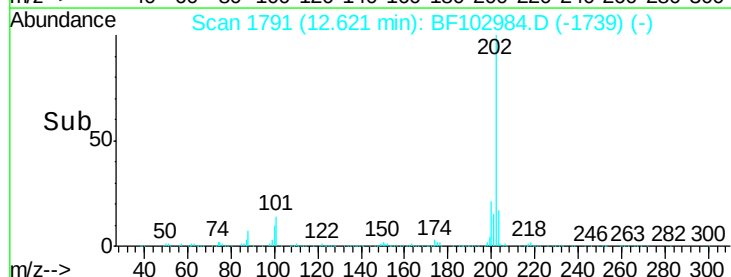
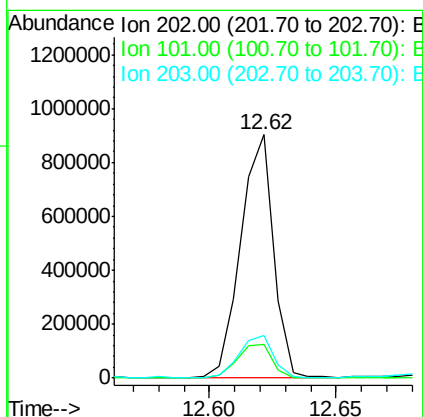
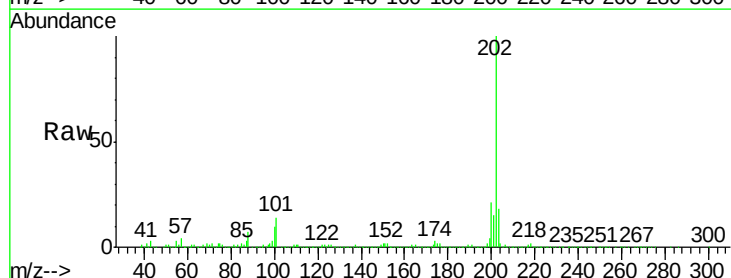
RT: 12.62 min Scan# 1791

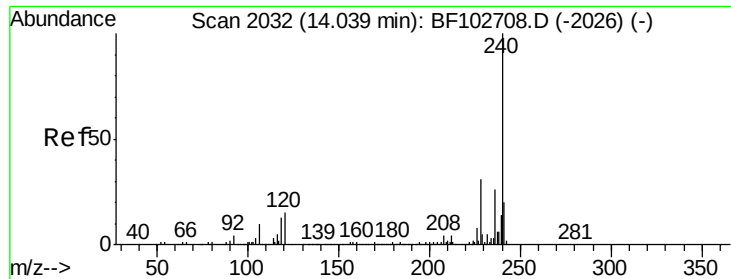
Delta R.T. 0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion:	202	Resp:	810588
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	34.1
203	17.6	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Instrument :

BNA_F

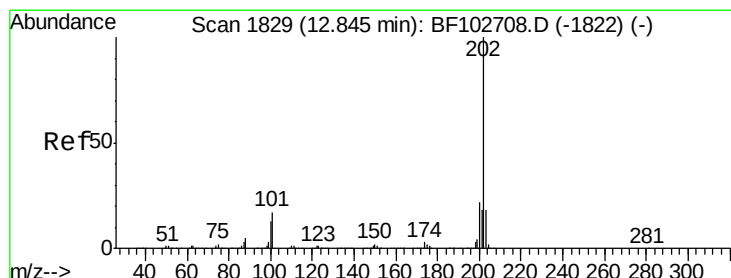
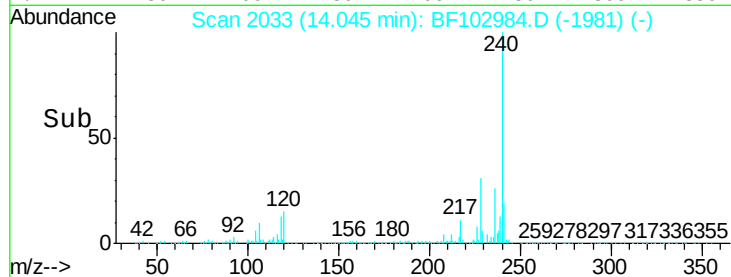
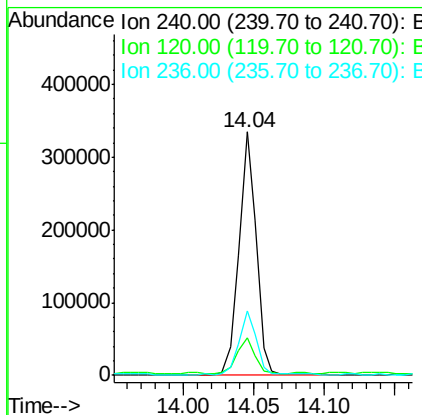
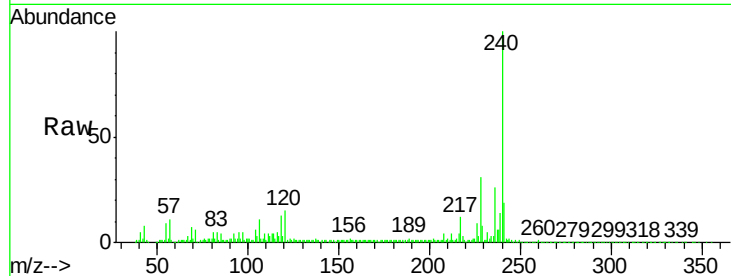
ClientSampled :

MM-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.5	9.5	14.3
236	26.4	20.7	31.1

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#77

Pyrene

Concen: 37.797 ng

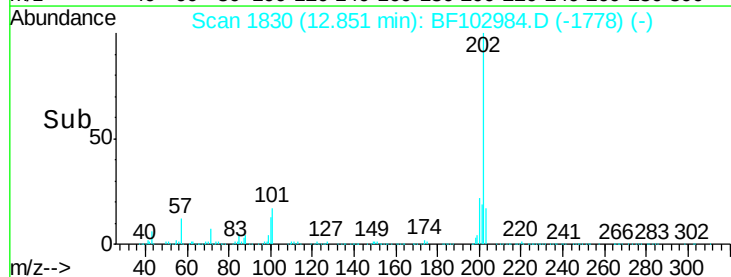
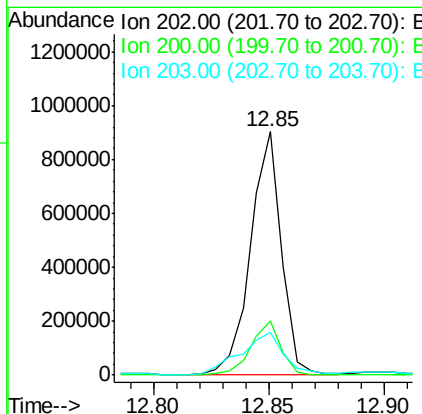
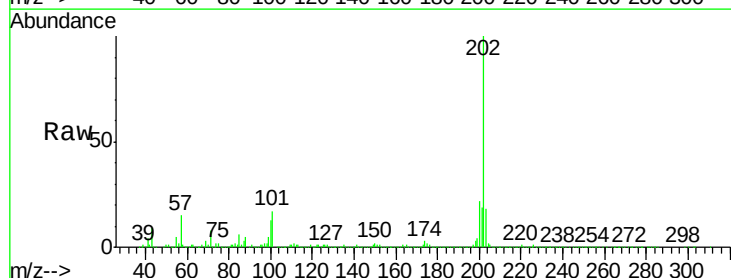
RT: 12.85 min Scan# 1830

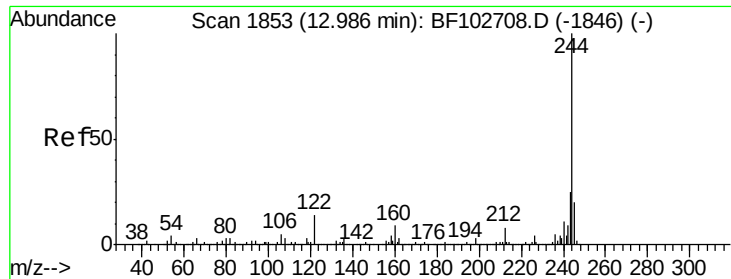
Delta R.T. 0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.4	26.2
203	17.7	14.3	21.5





#78

Terphenyl-d14

Concen: 26.738 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Instrument :

BNA_F

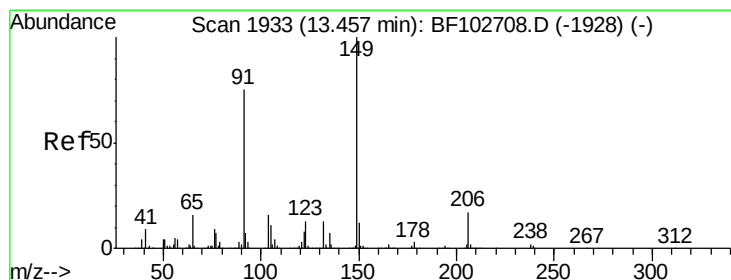
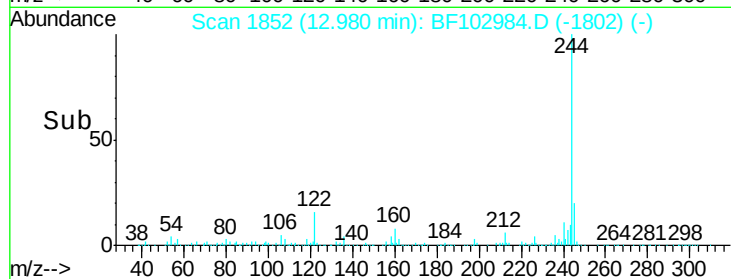
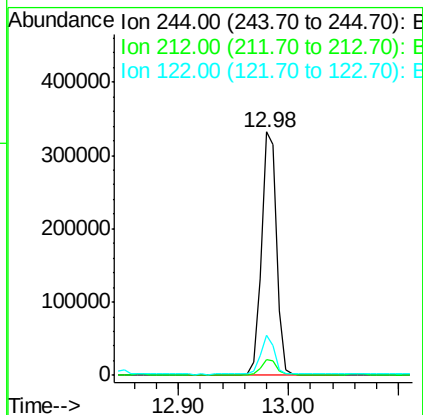
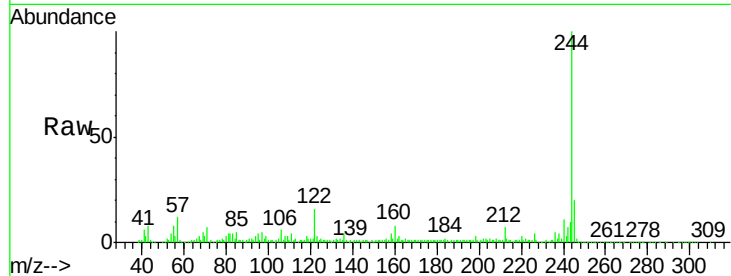
ClientSampleId :

MM-3

Tot Ion:	244	Resp:	319043
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.0
122	16.4	11.0	16.4

Manual Integrations
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#79

Butylbenzylphthalate

Concen: 2.082 ng

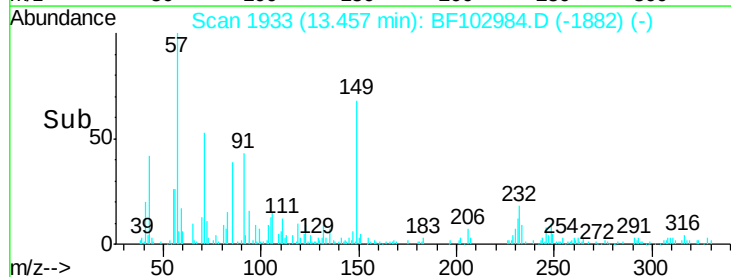
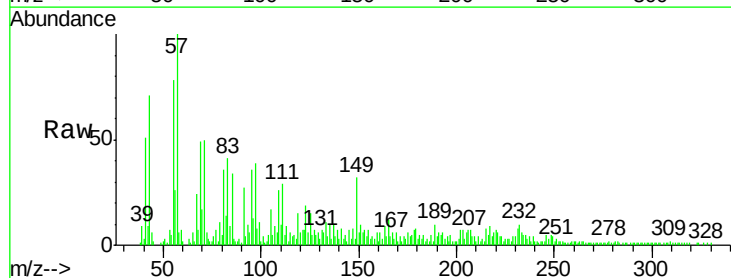
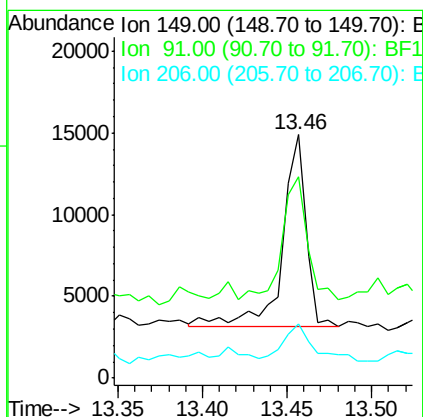
RT: 13.46 min Scan# 1933

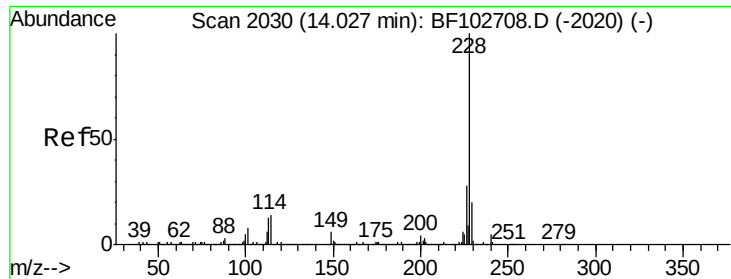
Delta R.T. 0.00 min

Lab File: BF102984.D

Acq: 14 Feb 2018 12:54

Tgt Ion:	149	Resp:	11453
Ion Ratio	Lower	Upper	
149	100		
91	82.6	56.8	85.2
206	22.3	14.1	21.1





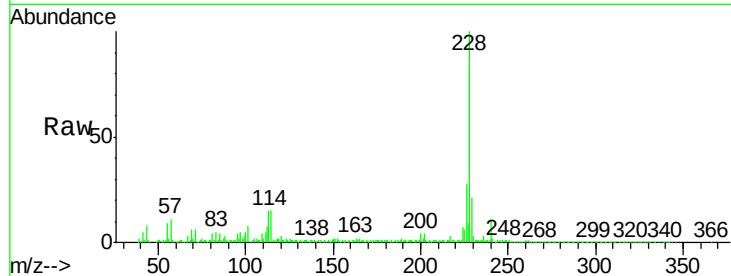
#80
Benzo(a)anthracene
Concen: 21.592 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	21.1	15.8	23.6

Manual Integrations
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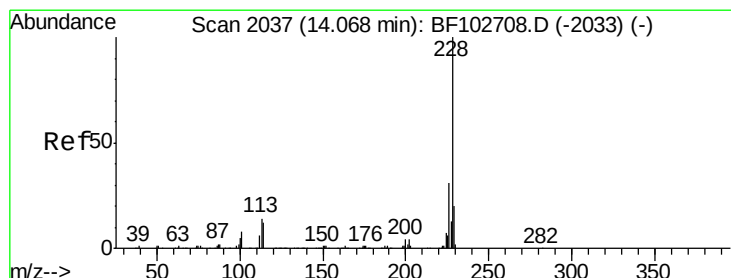
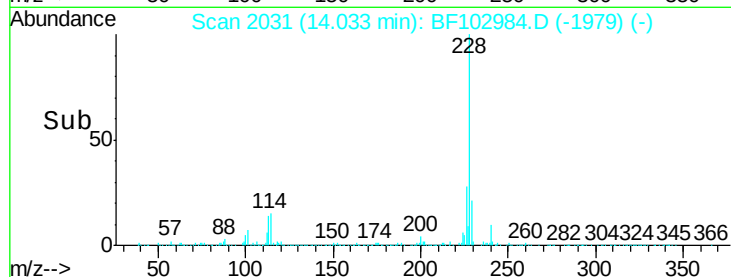
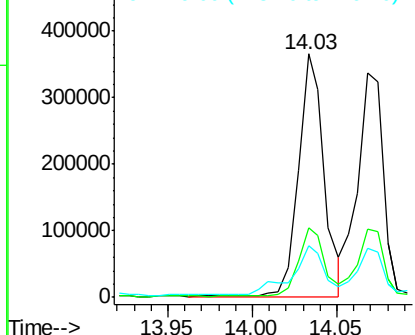


Abundance

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: 19.753 ng
RT: 14.07 min Scan# 2037
Delta R.T. -0.00 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

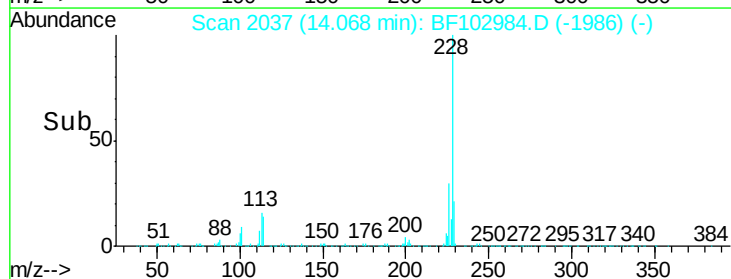
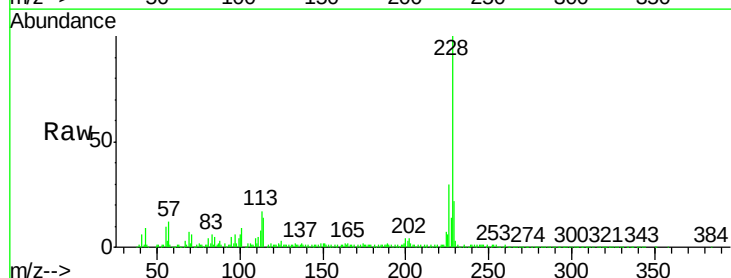
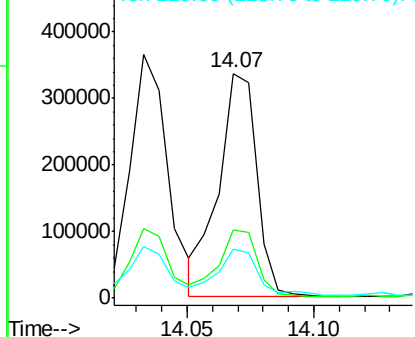
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	21.7	16.2	24.4

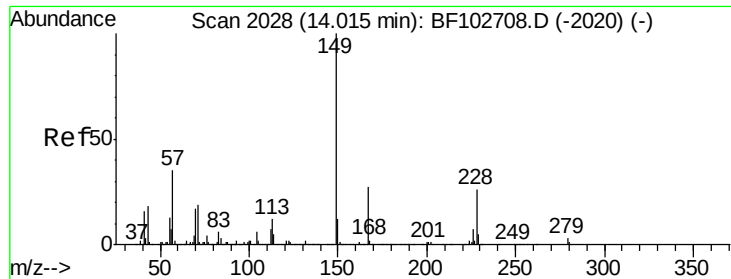
Abundance

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





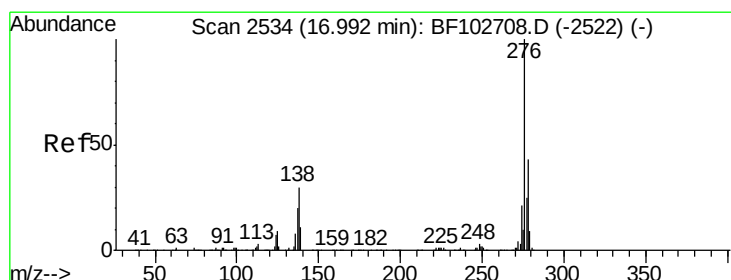
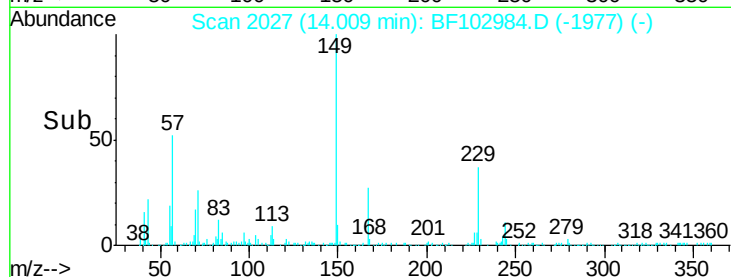
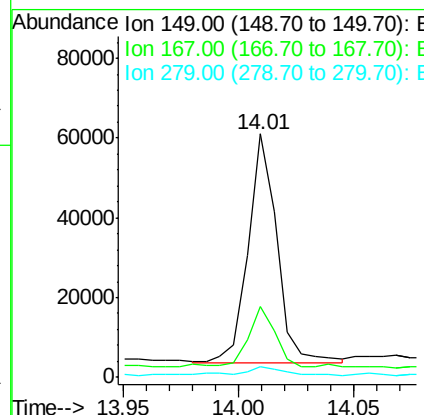
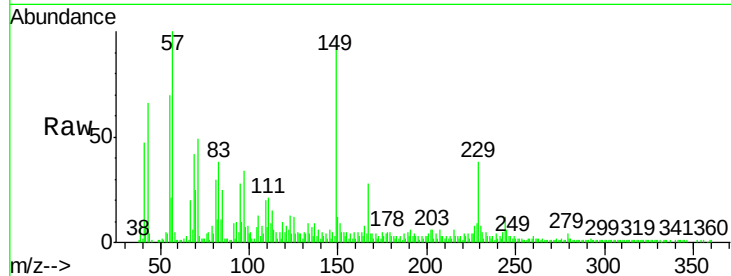
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.718 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: BF102984.D
 Acq: 14 Feb 2018 12:54

Instrument :
 BNA_F
 ClientSampled :
 MM-3

Tot Ion	Ratio	Lower	Upper
149	100		
167	28.9	21.3	31.9
279	4.2	3.0	4.4

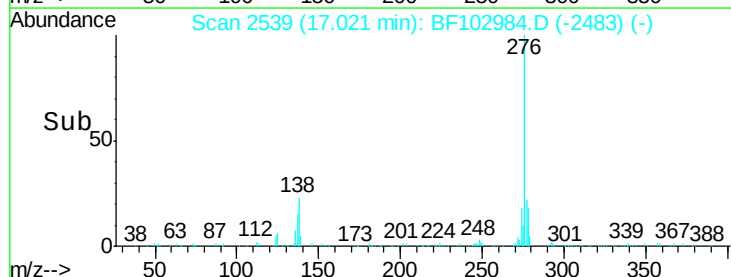
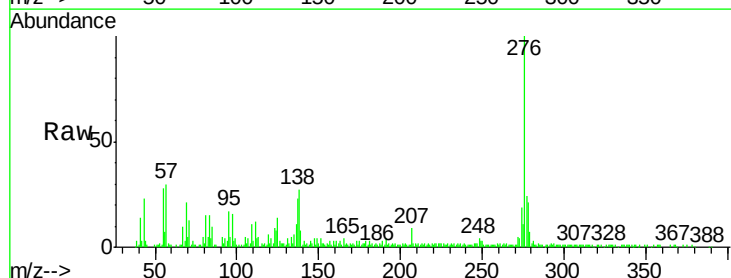
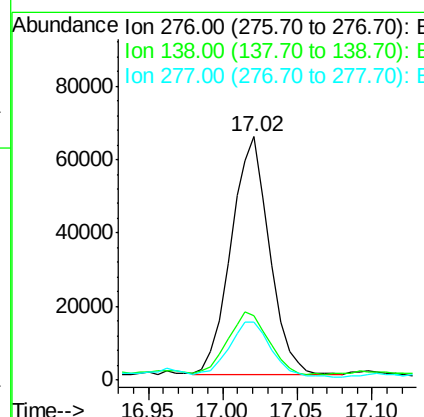
Manual Integrations
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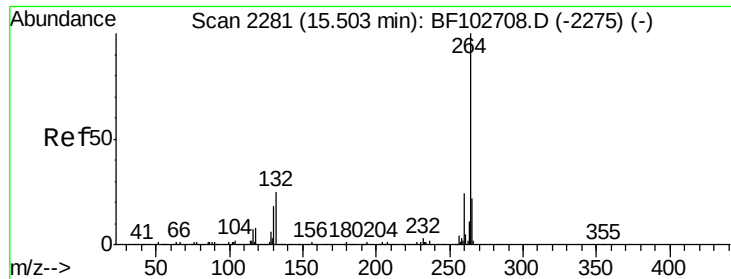
Sohil
 2/15/2018 11:06:16 AM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.734 ng
 RT: 17.02 min Scan# 2539
 Delta R.T. 0.03 min
 Lab File: BF102984.D
 Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.4	25.0	37.6
277	25.6	20.1	30.1





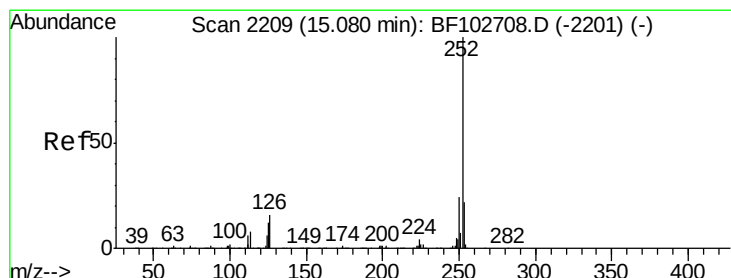
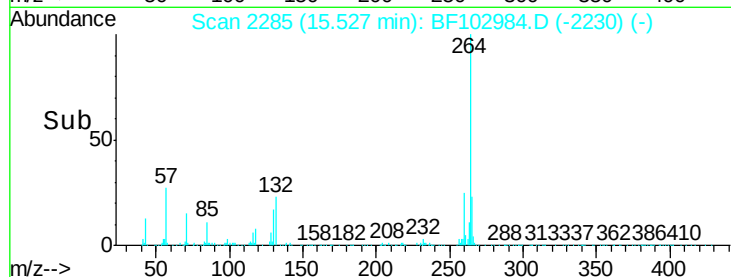
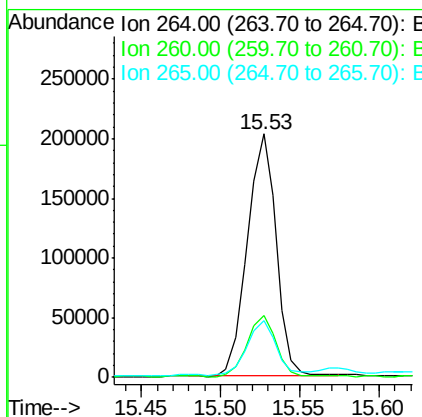
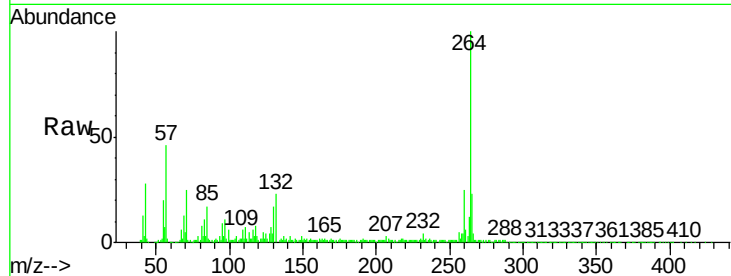
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.02 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampleId :
MM-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.2	28.8
265	23.3	17.5	26.3

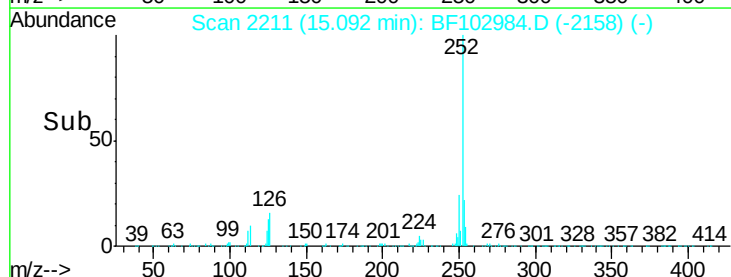
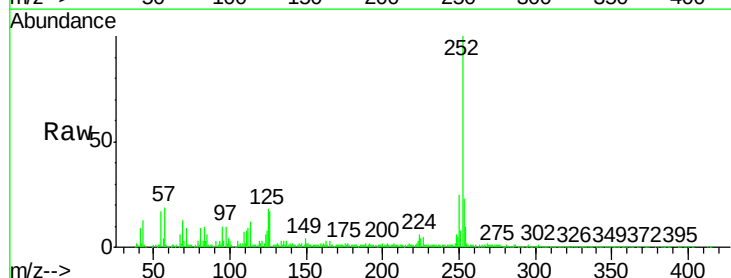
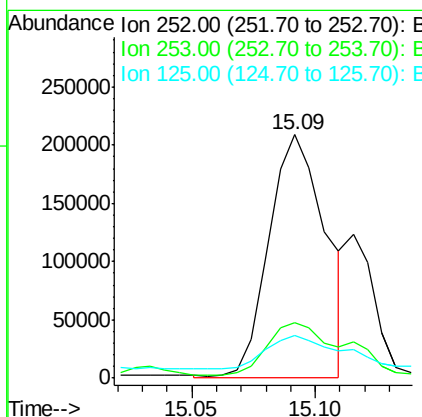
Manual Integrations
APPROVED

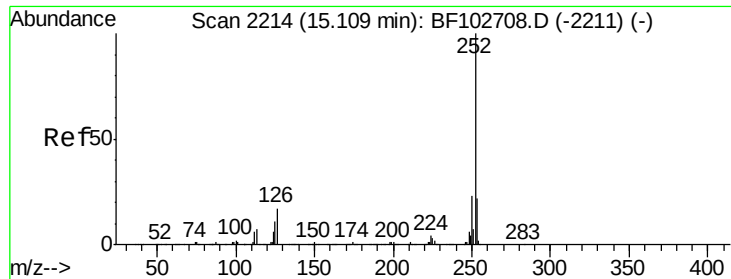
Sohil
2/15/2018 11:06:16 AM



#87
Benzo(b)fluoranthene
Concen: 20.041 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	17.6	9.0	13.6





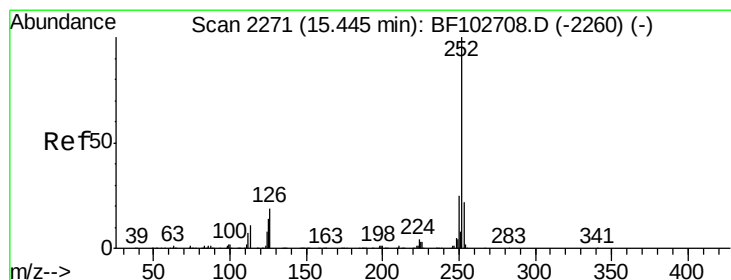
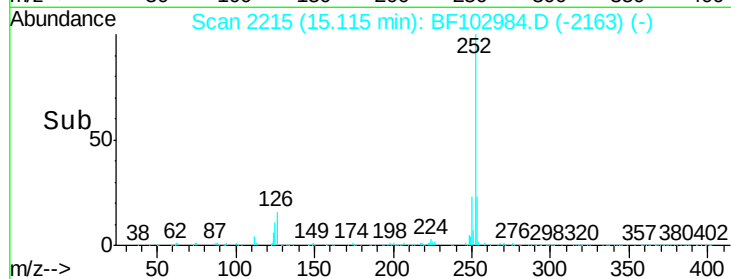
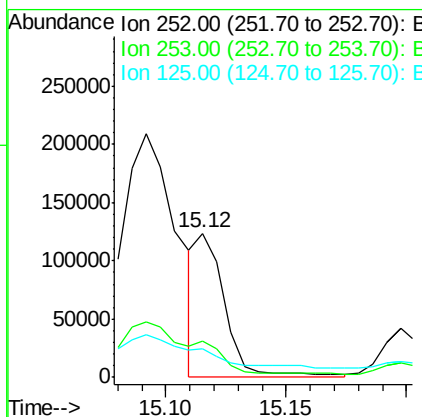
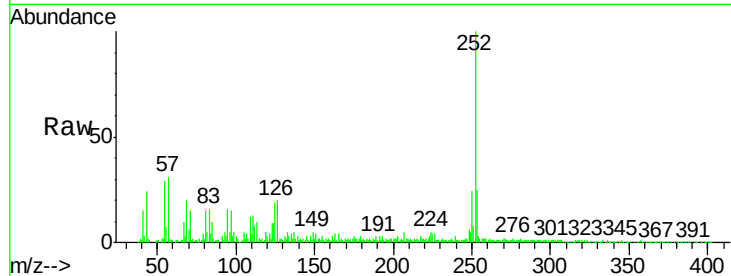
#88
Benzo(k)fluoranthene
Concen: 6.481 ng/mL
RT: 15.12 min Scan# 2215
Delta R.T. 0.01 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampleId :
MM-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	19.4	10.2	15.2

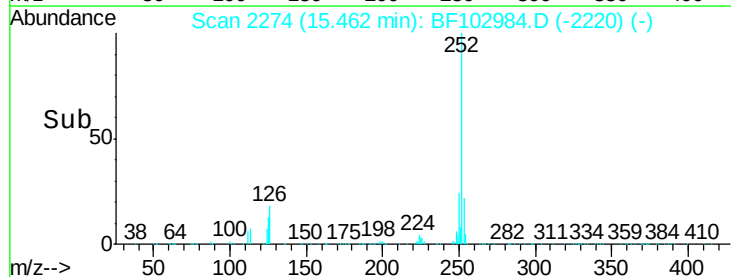
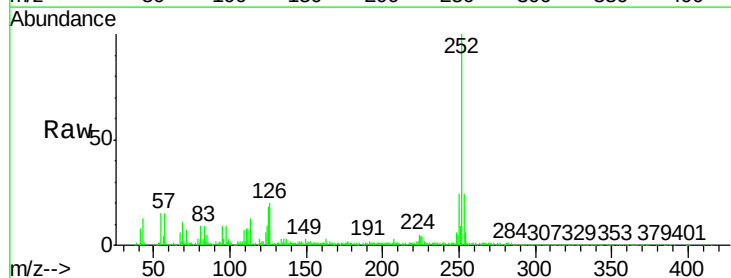
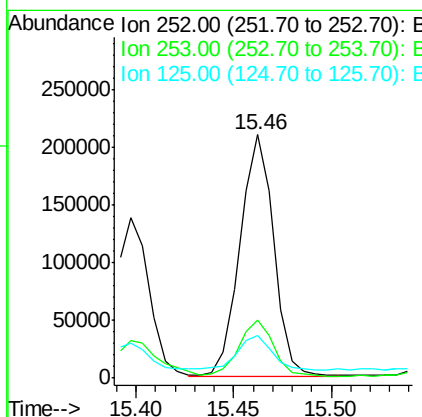
Manual Integrations
APPROVED

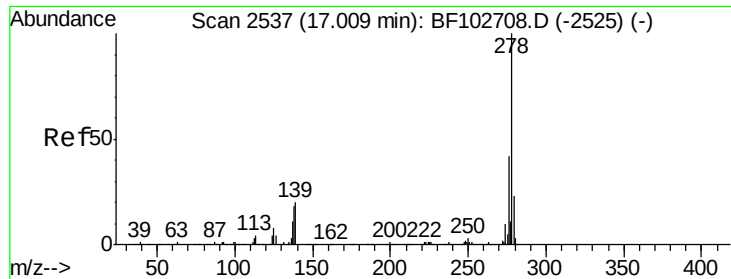
Sohil
2/15/2018 11:06:16 AM



#89
Benzo(a)pyrene
Concen: 16.605 ng/mL
RT: 15.46 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.1	25.7
125	17.7	9.8	14.6





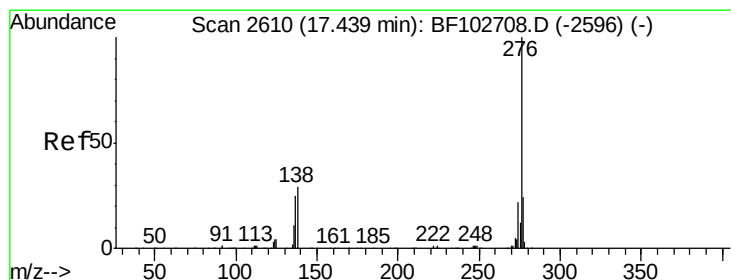
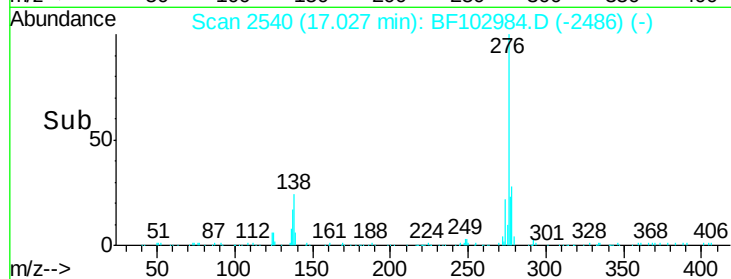
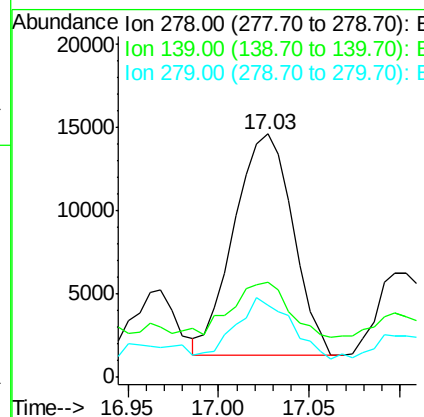
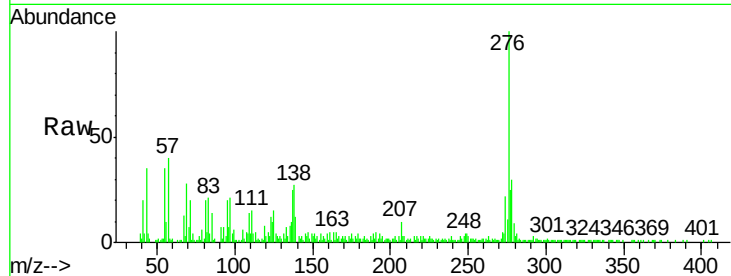
#90
Dibenzo(a,h)anthracene
Concen: 2.450 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.02 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Instrument :
BNA_F
ClientSampled :
MM-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	39.3	15.9	23.9#
279	29.5	19.0	28.4#

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:16 AM



#91
Benzo(g,h,i)perylene
Concen: 11.042 ng
RT: 17.47 min Scan# 2616
Delta R.T. 0.04 min
Lab File: BF102984.D
Acq: 14 Feb 2018 12:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	17.9	26.9
138	30.4	21.8	32.8

