

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
 Data File : BF103764.D
 Acq On : 19 Mar 2018 19:10
 Operator : JU/SJ
 Sample : J1965-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-113(4-5)

Manual Integrations
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Sohil
 3/20/2018 6:26:38 PM

Quant Time: Mar 20 07:53:01 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 15 18:31:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	152474	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	611239	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	264869	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	419305	20.00	ng	0.01
75) Chrysene-d12	14.16	240	305089	20.00	ng	0.01
86) Perylene-d12	15.70	264	251638	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	212911	21.24	ng	0.00
7) Phenol-d6	6.58	99	265489	21.65	ng	0.00
23) Nitrobenzene-d5	7.53	82	149893	17.10	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	51215	22.49	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	258659	15.58	ng	0.00
78) Terphenyl-d14	13.09	244	214448	16.32	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	448969	14.541	ng	99
37) 2-Methylnaphthalene	8.96	142	168138	8.587	ng	98
45) 1,1'-Biphenyl	9.43	154	79516	3.600	ng	98
48) Acenaphthylene	9.87	152	478644	17.596	ng	100
51) Acenaphthene	10.05	154	129632	8.026	ng	98
54) Dibenzofuran	10.22	168	387933	16.817	ng	99
57) Fluorene	10.56	166	495776	27.696	ng	99
70) Phenanthrene	11.54	178	1790328	78.054	ng	99
71) Anthracene	11.59	178	595245	25.551	ng	100
72) Carbazole	11.73	167	206249	9.109	ng	99
74) Fluoranthene	12.73	202	1469672	62.194	ng	99
77) Pylene	12.96	202	1313849	58.640	ng	99
80) Benzo(a)anthracene	14.15	228	680601m	35.242	ng	
82) Chrysene	14.19	228	549119	29.828	ng	97
85) Indeno(1,2,3-cd)pyrene	17.27	276	204236	12.704	ng	93
87) Benzo(b)fluoranthene	15.24	252	560849m	35.278	ng	
88) Benzo(k)fluoranthene	15.27	252	187855m	12.292	ng	
89) Benzo(a)pyrene	15.63	252	426386	29.570	ng	# 94
90) Dibenzo(a,h)anthracene	17.28	278	56602	4.533	ng	# 85
91) Benzo(a,h,i)perylene	17.75	276	184596	15.197	ng	99

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

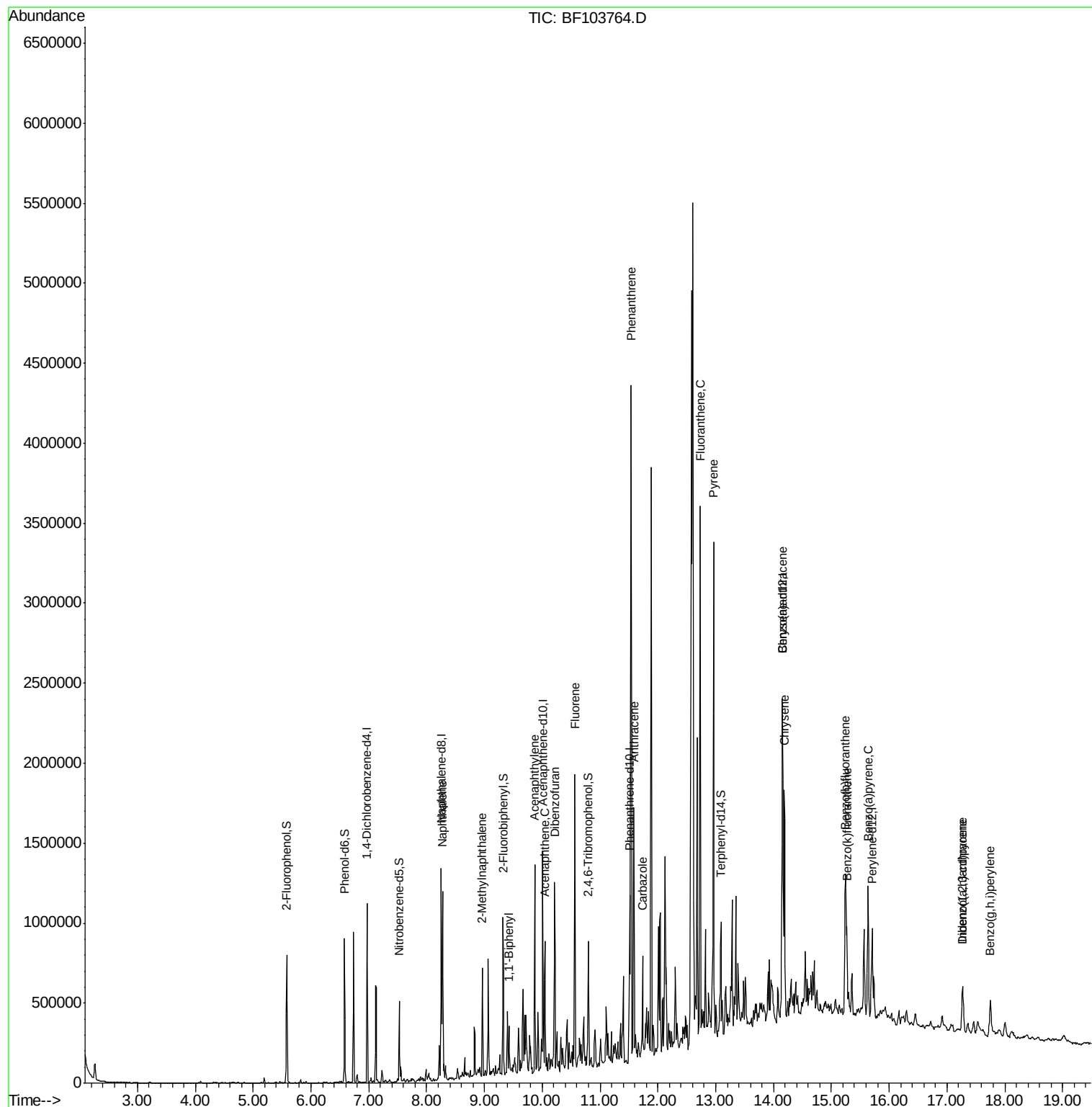
Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
Data File : BF103764.D
Acq On : 19 Mar 2018 19:10
Operator : JU/SJ
Sample : J1965-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

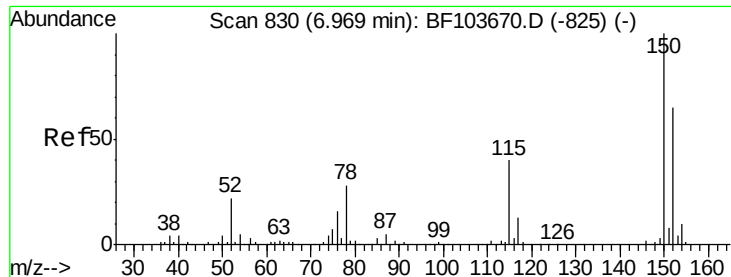
Instrument :
BNA_F
ClientSampleId :
SB-113(4-5)

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

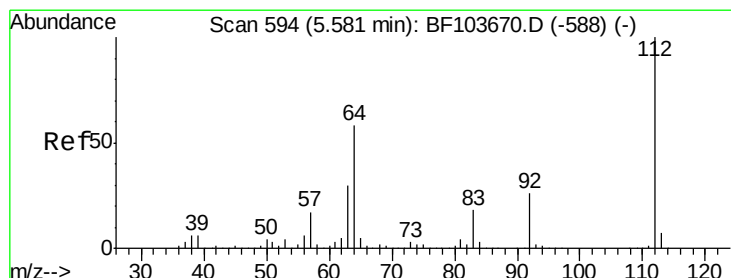
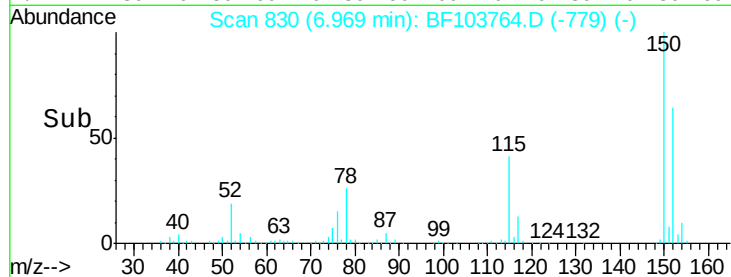
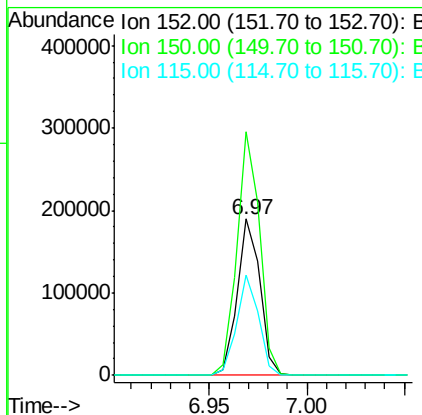
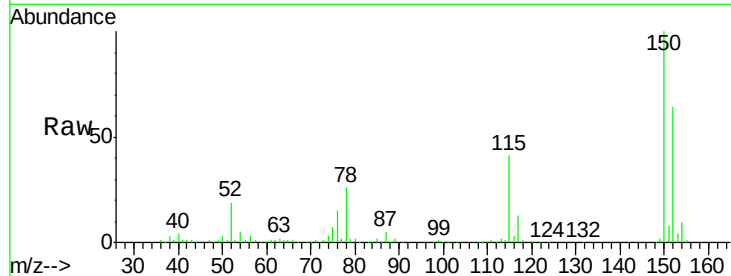
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. 0.00 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampleId :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.6	186.8
115	64.0	50.1	75.1

Manual Integrations
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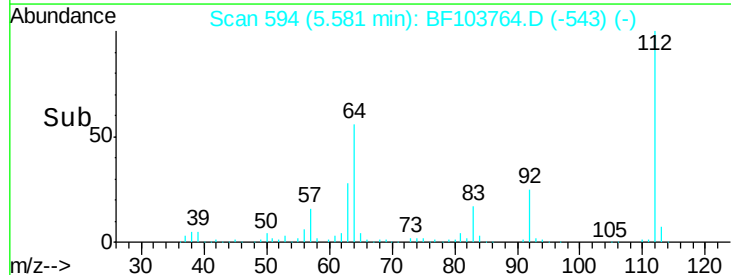
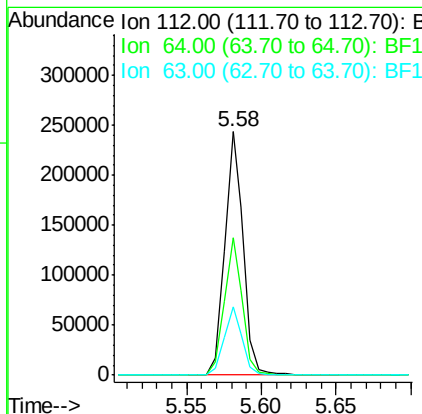
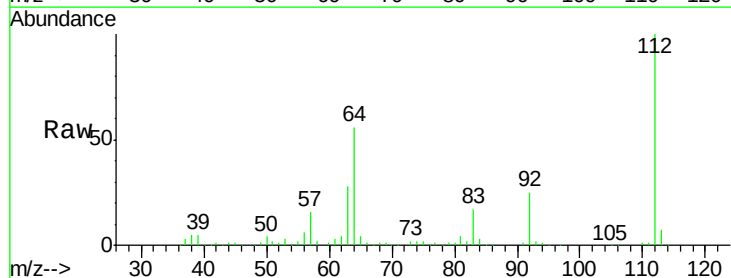
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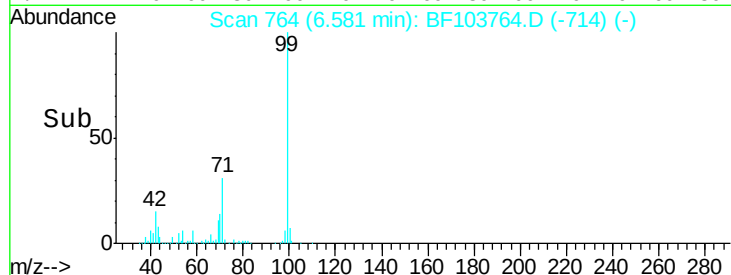
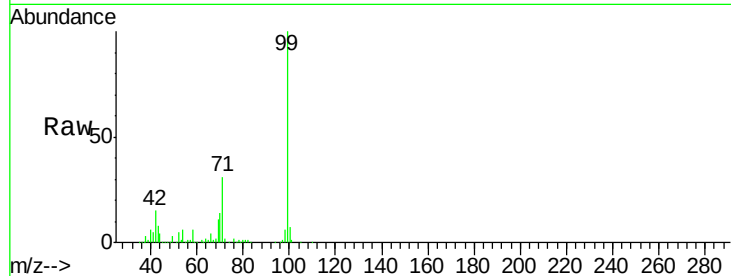
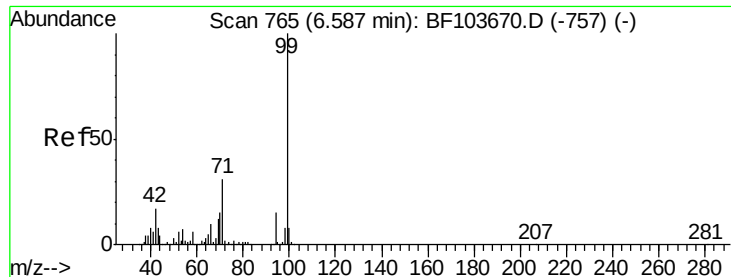


#5

2-Fluorophenol
Concen: 21.239 ng
RT: 5.58 min Scan# 594
Delta R.T. -0.00 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	47.9	71.9
63	27.9	23.7	35.5





#7

Phenol-d6

Concen: 21.647 ng

RT: 6.58 min Scan# 764

Delta R.T. -0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tot Ion:	99	Resp:	265489
Ion Ratio	Lower	Upper	
99	100		
42	14.7	14.5	21.7
71	30.8	25.4	38.0

Instrument :

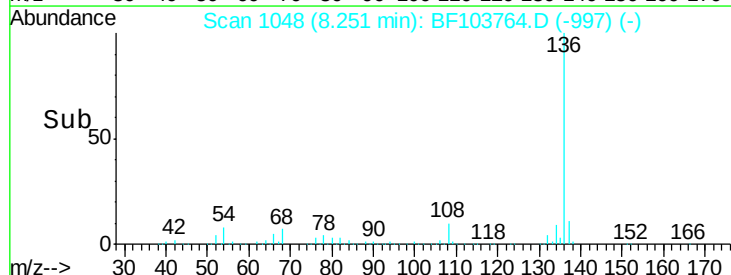
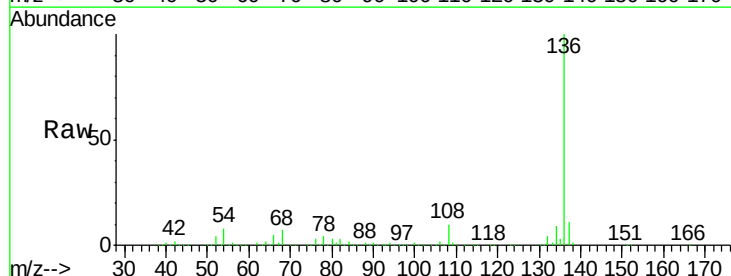
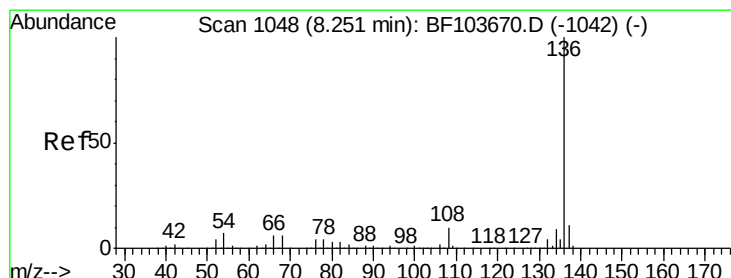
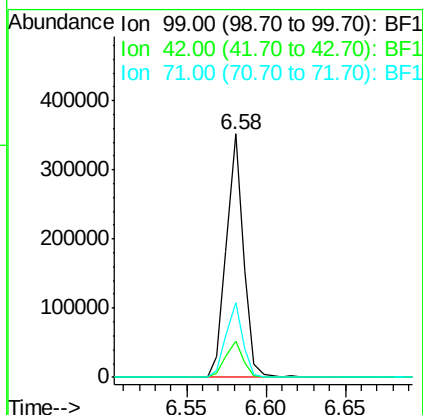
BNA_F

ClientSampleId :

SB-113(4-5)

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#21

Naphthalene-d8

Concen: 20.000 ng

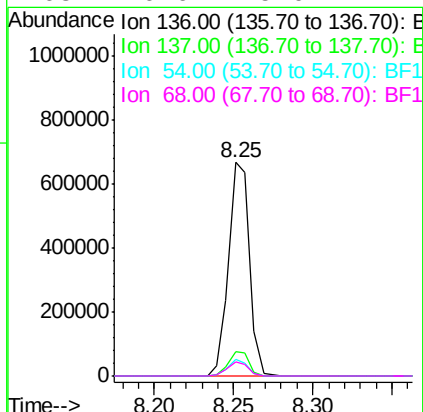
RT: 8.25 min Scan# 1048

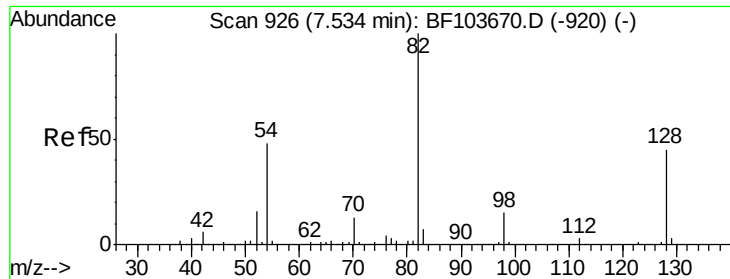
Delta R.T. -0.00 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tgt Ion:	136	Resp:	611239
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	7.7	6.6	9.8
68	6.6	5.0	7.4





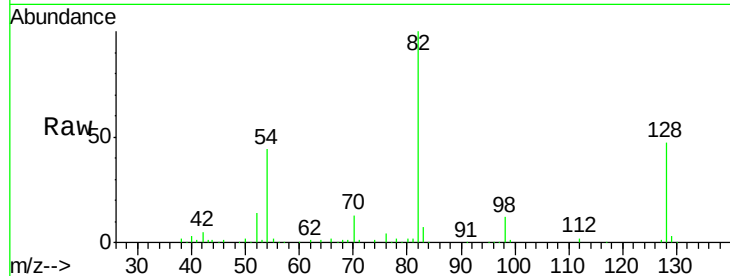
#23
 Nitrobenzene-d5
 Concen: 17.101 ng
 RT: 7.53 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Instrument :
 BNA_F
 ClientSampled :
 SB-113(4-5)

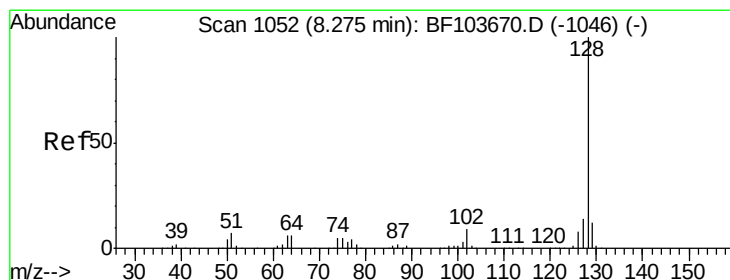
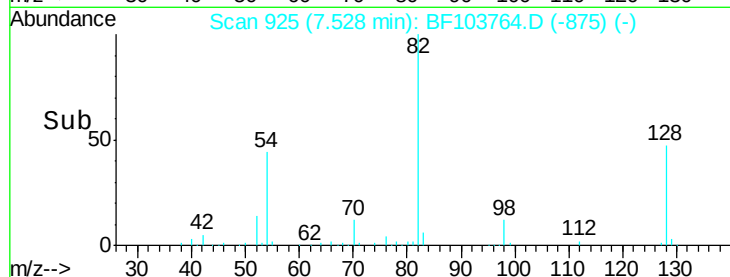
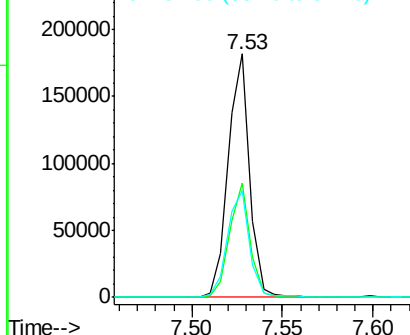
Tot Ion	Ratio	Resp	Lower	Upper
82	100	149893		
128	46.9	36.1	54.1	
54	43.7	41.4	62.2	

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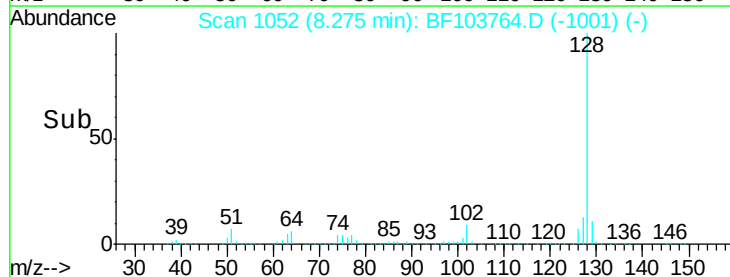
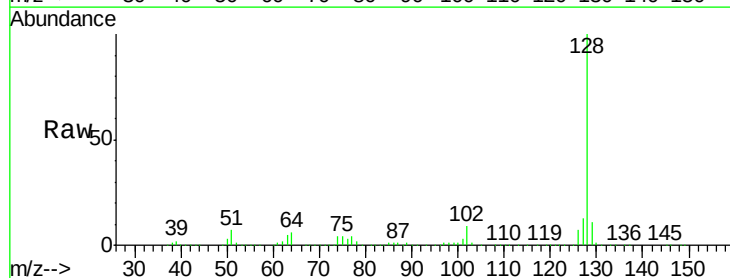
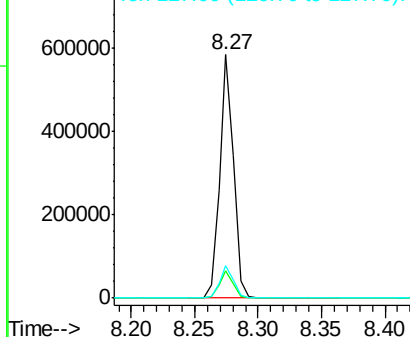
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

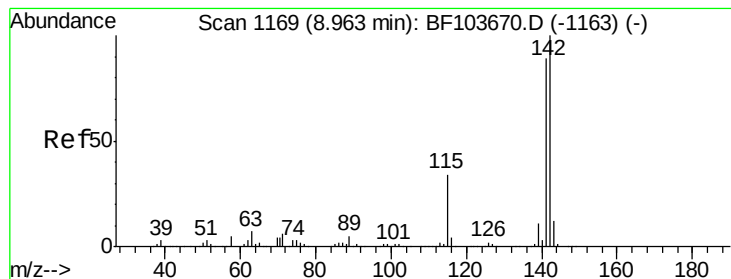


#31
 Naphthalene
 Concen: 14.541 ng
 RT: 8.27 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	448969		
129	11.3	8.8	13.2	
127	13.1	10.9	16.3	

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





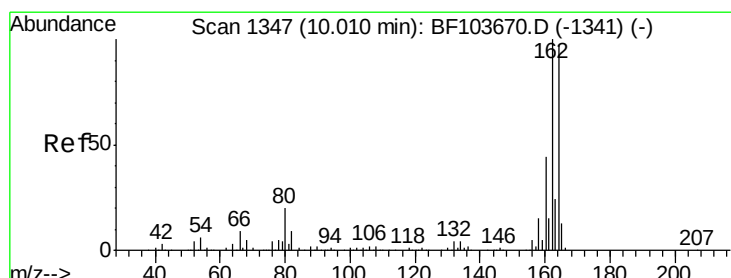
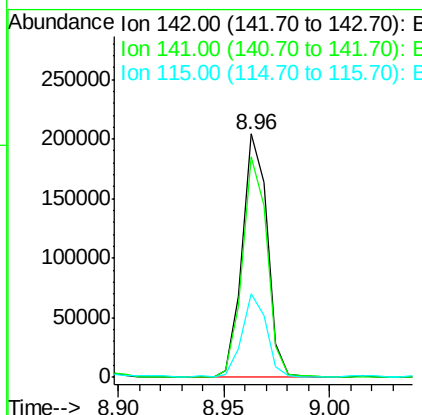
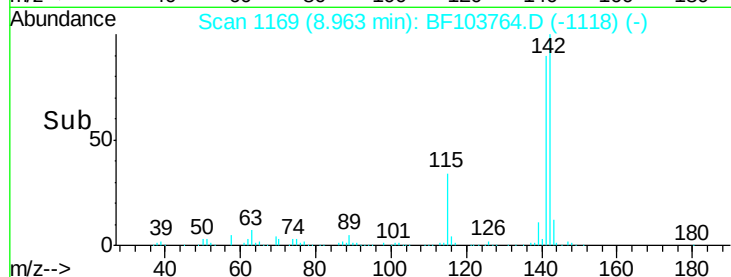
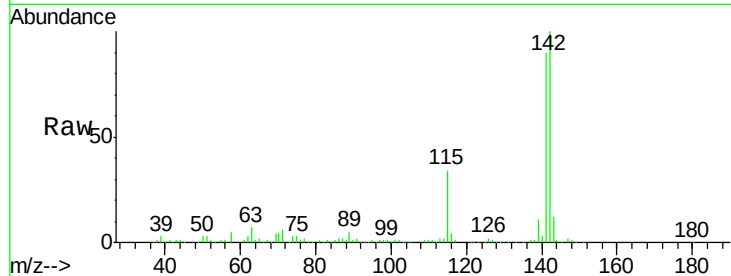
#37
 2-Methylnaphthalene
 Concen: 8.587 ng
 RT: 8.96 min Scan# 1169
 Delta R.T. -0.00 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Instrument :
 BNA_F
 ClientSampled :
 SB-113(4-5)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	168138		
141	90.4	70.8	106.2	
115	34.3	26.1	39.1	

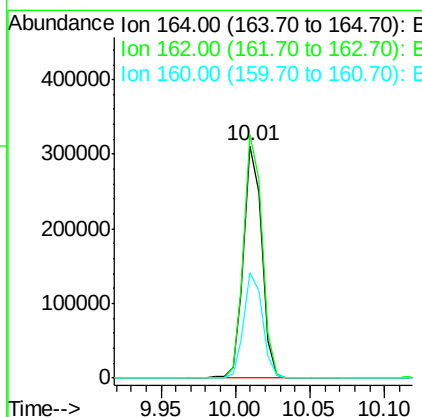
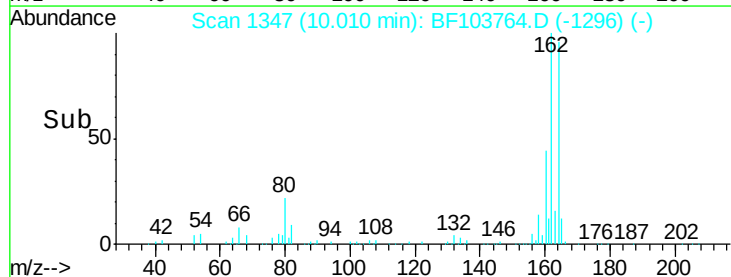
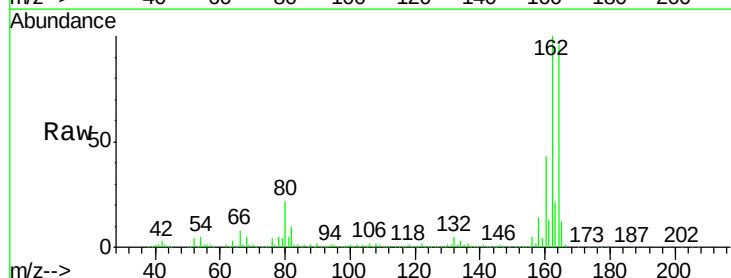
Manual Integrations
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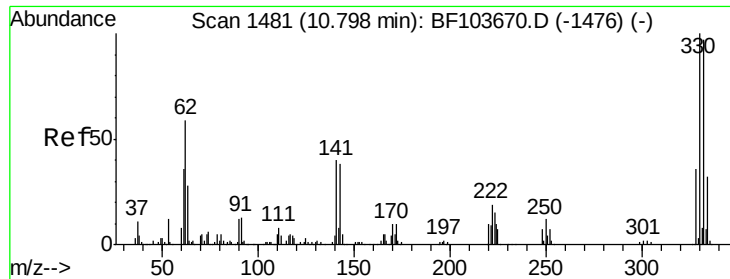
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.01 min Scan# 1347
 Delta R.T. 0.00 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	264869		
162	104.6	86.1	129.1	
160	45.0	38.3	57.5	





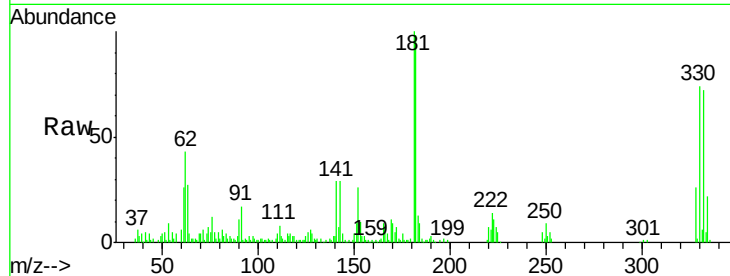
#41
 2,4,6-Tribromophenol
 Concen: 22.489 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.0	115.6
141	34.7	29.9	44.9

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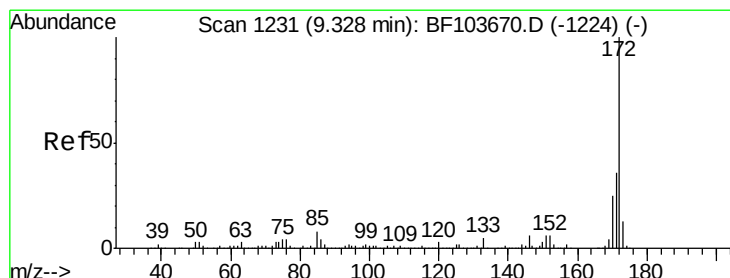
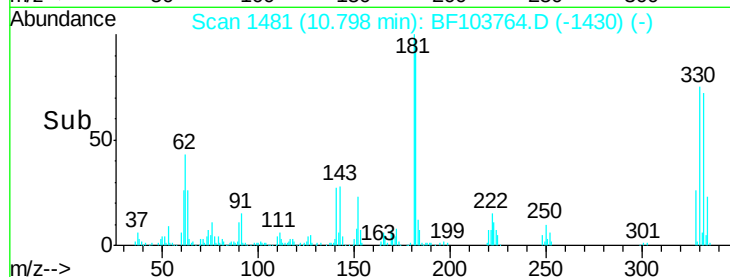
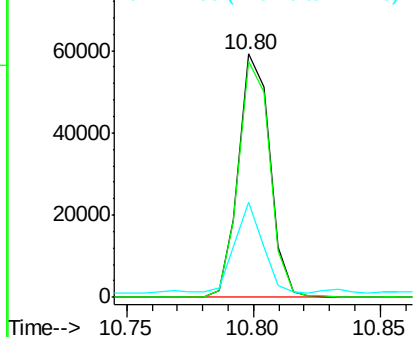


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 15.578 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

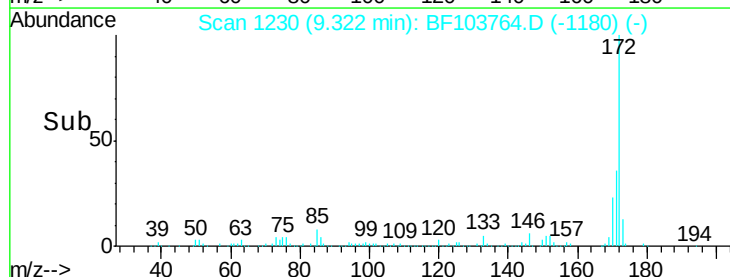
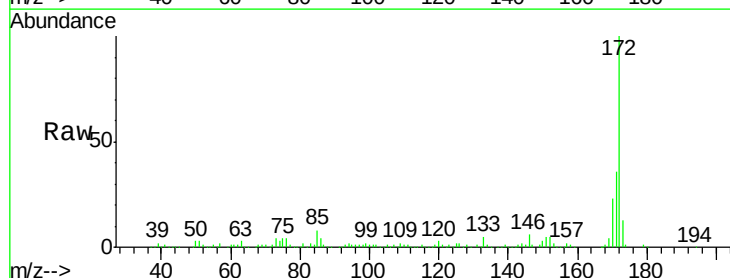
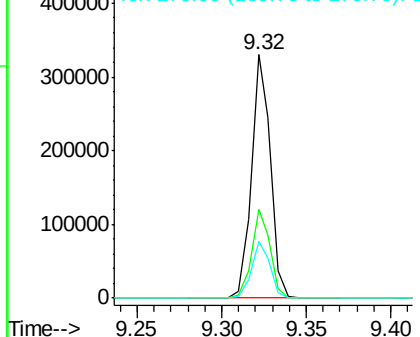
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	23.5	19.6	29.4

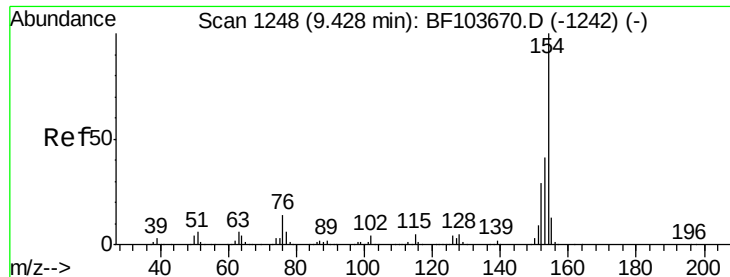
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 3.600 ng

RT: 9.43 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Instrument :

BNA_F

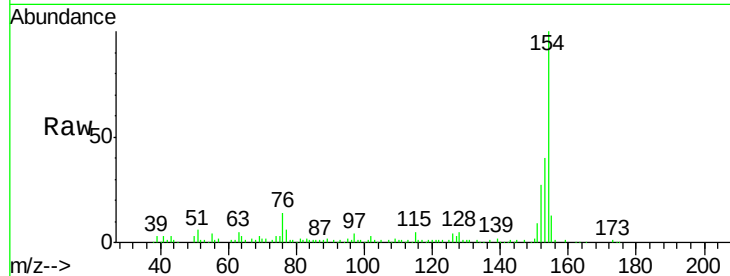
ClientSampled :

SB-113(4-5)

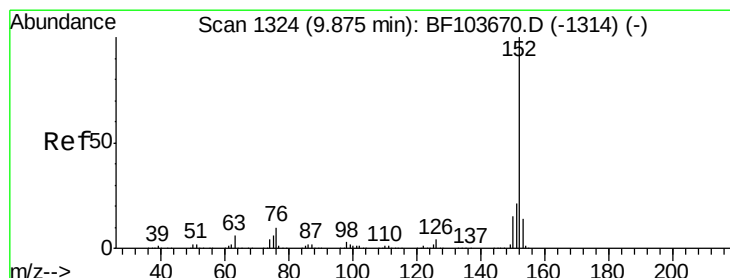
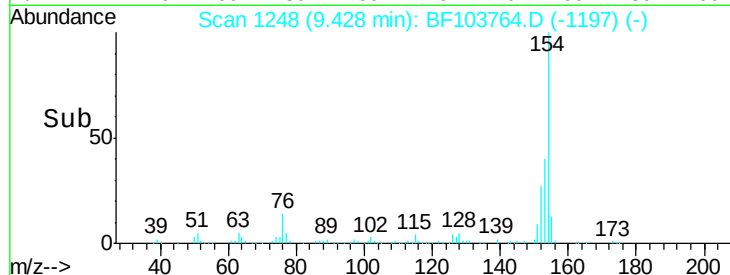
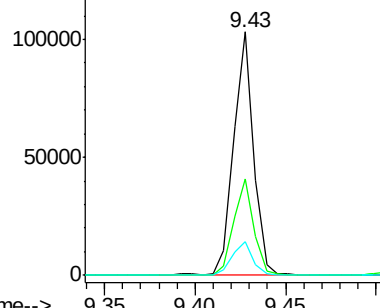
Tot Ion:	154	Resp:	79516
Ion Ratio	Lower	Upper	
154	100		
153	39.6	21.3	61.3
76	13.7	0.0	34.0

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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: 17.596 ng

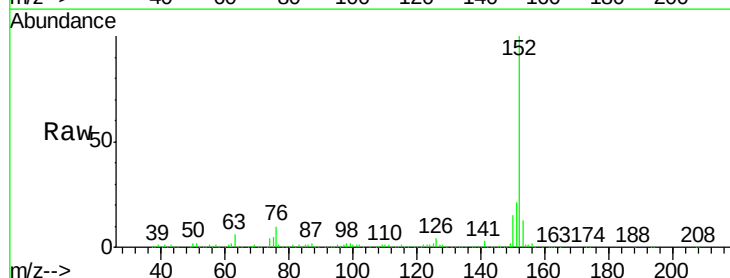
RT: 9.87 min Scan# 1324

Delta R.T. -0.00 min

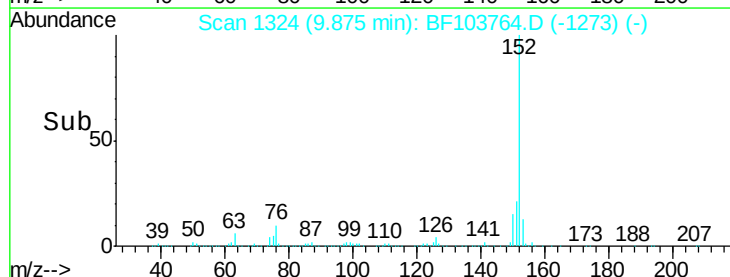
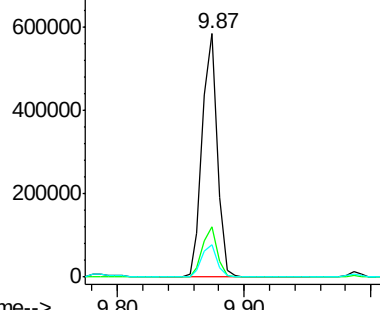
Lab File: BF103764.D

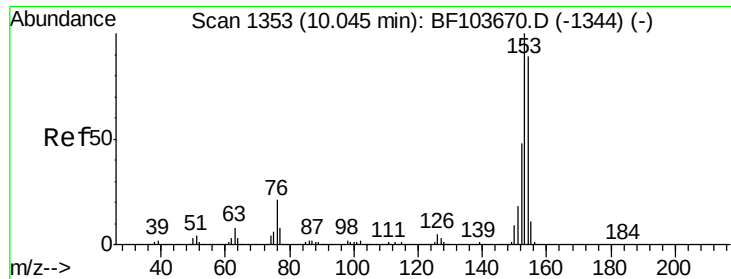
Acq: 19 Mar 2018 19:10

Tgt Ion:	152	Resp:	478644
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.3	24.5
153	13.3	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





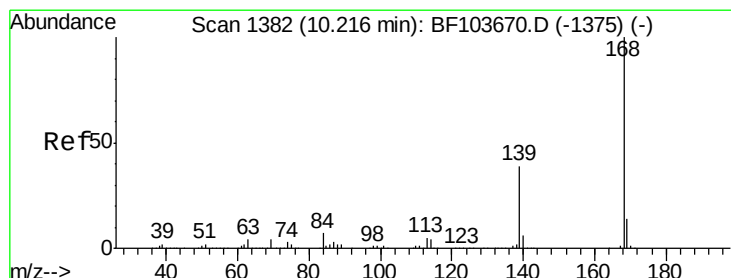
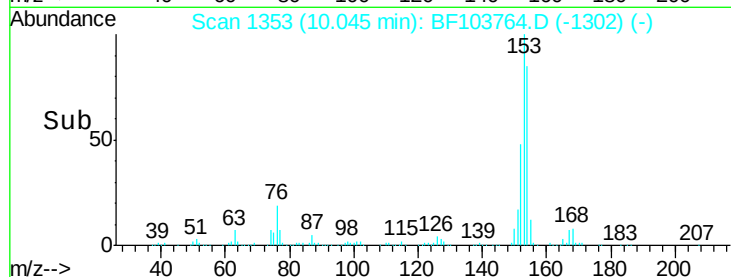
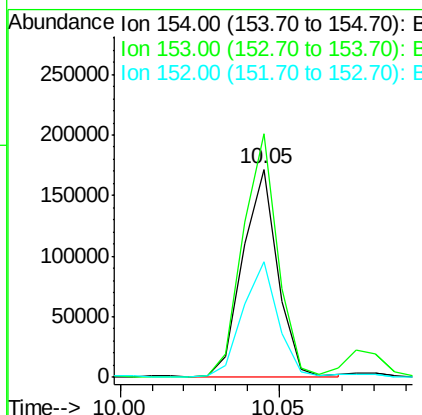
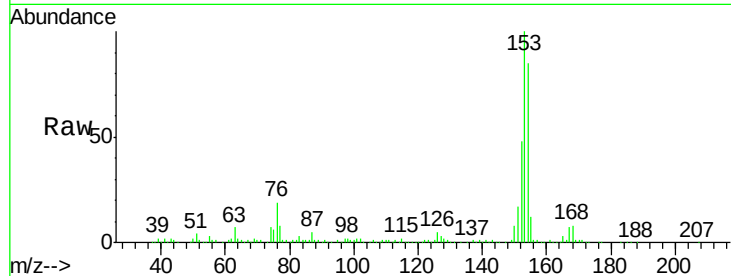
#51
Acenaphthene
Concen: 8.026 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.00 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampled :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.0	91.2	136.8
152	55.8	43.8	65.8

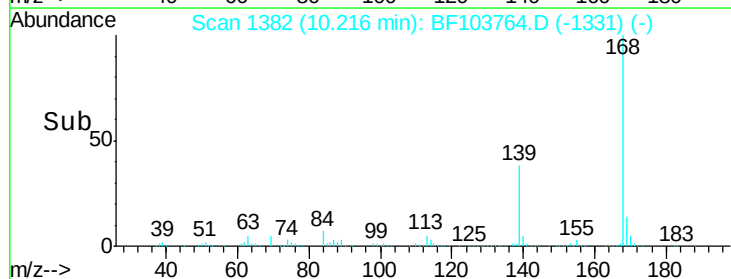
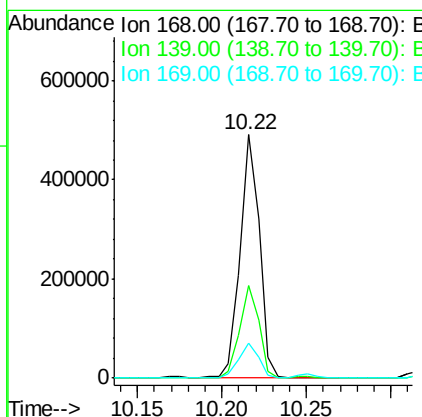
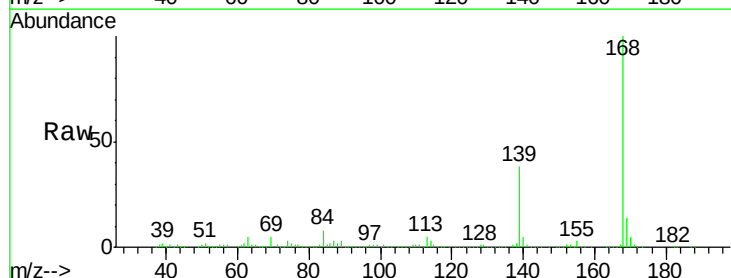
Manual Integrations
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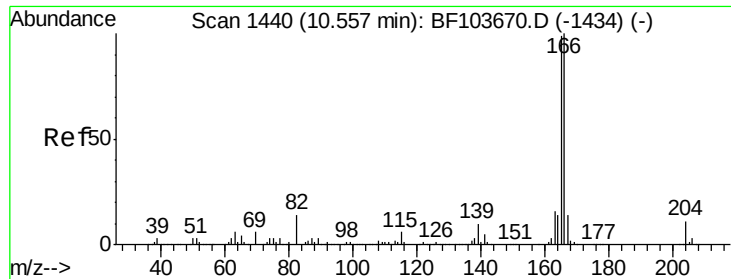
Sohil
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#54
Dibenzofuran
Concen: 16.817 ng
RT: 10.22 min Scan# 1382
Delta R.T. 0.00 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.1	30.1	45.1
169	14.2	10.9	16.3





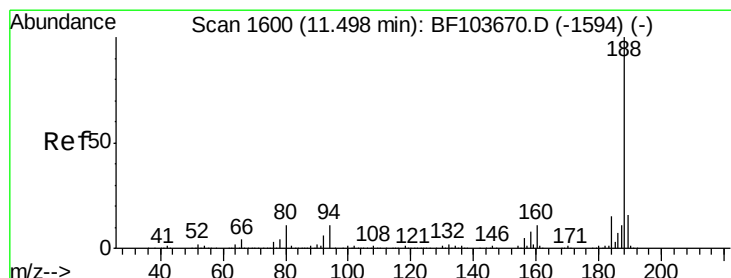
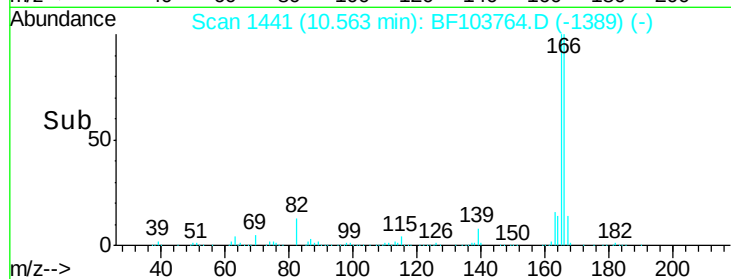
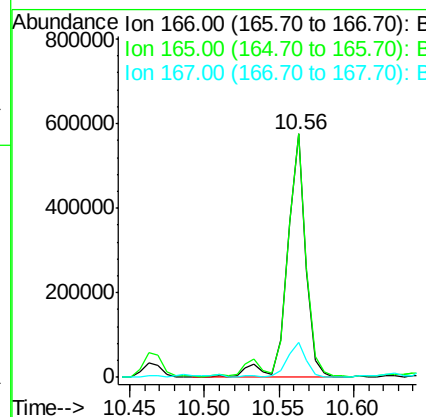
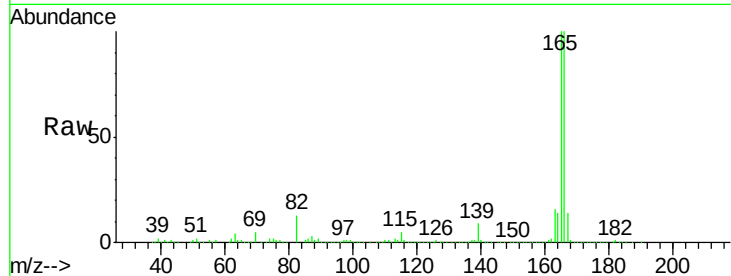
#57
 Fluorene
 Concen: 27.696 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. 0.01 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	14.4	10.6	16.0

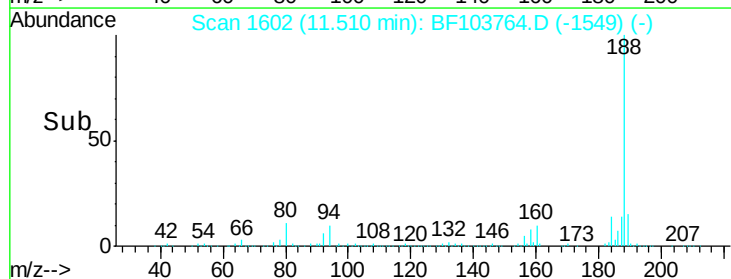
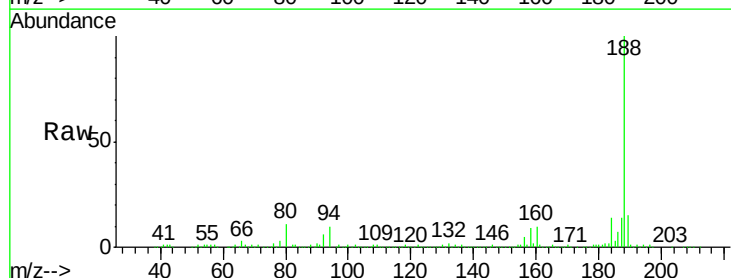
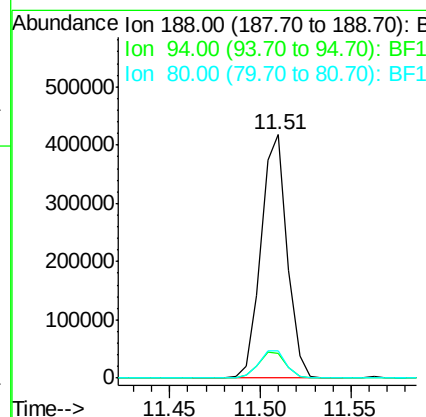
Manual Integrations
 APPROVED

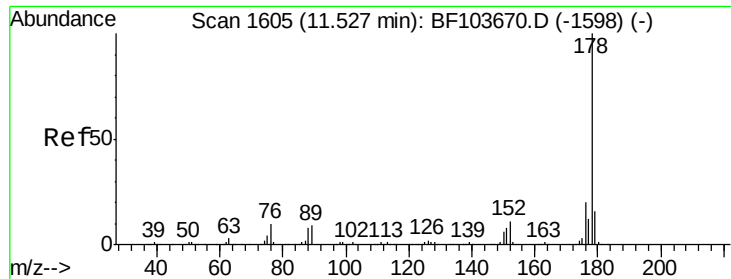
Sohil
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: BF103764.D
 Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	11.0	9.2	13.8





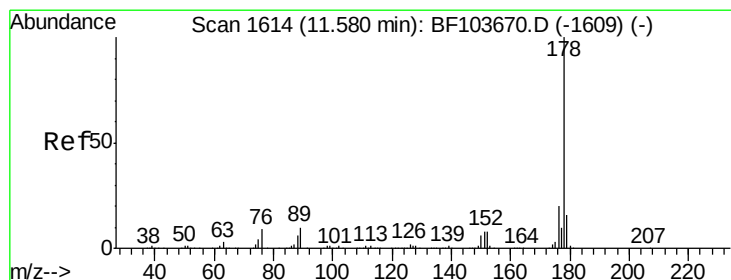
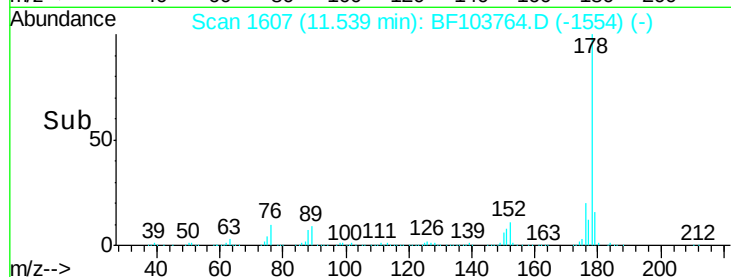
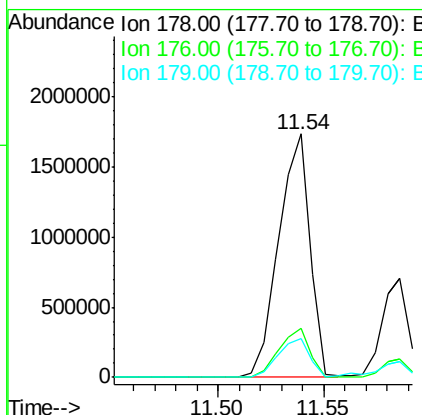
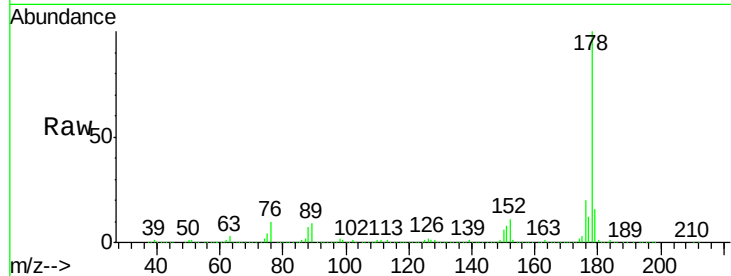
#70
Phenanthrene
Concen: 78.054 ng
RT: 11.54 min Scan# 1607
Delta R.T. 0.01 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampleId :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	15.7	13.0	19.6

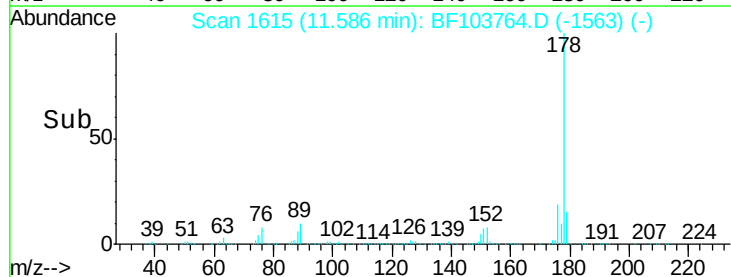
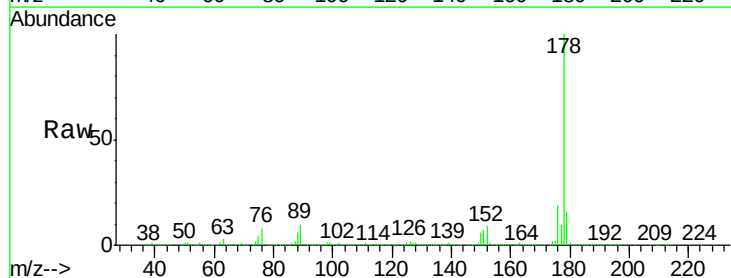
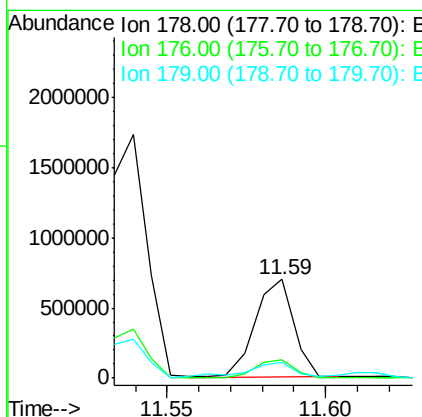
Manual Integrations
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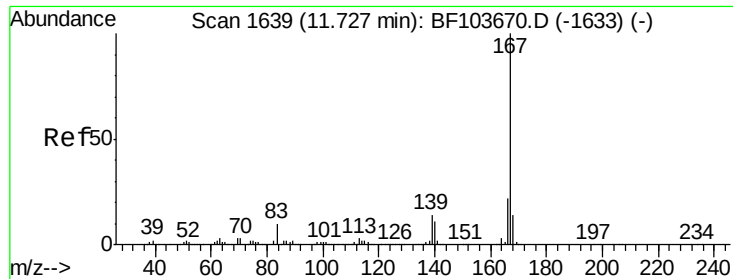
Sohil
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#71
Anthracene
Concen: 25.551 ng
RT: 11.59 min Scan# 1615
Delta R.T. 0.01 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.6	19.0





#72

Carbazole

Concen: 9.109 ng

RT: 11.73 min Scan# 1640

Delta R.T. 0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Instrument :

BNA_F

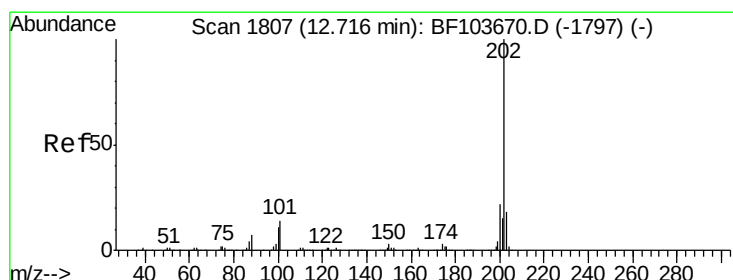
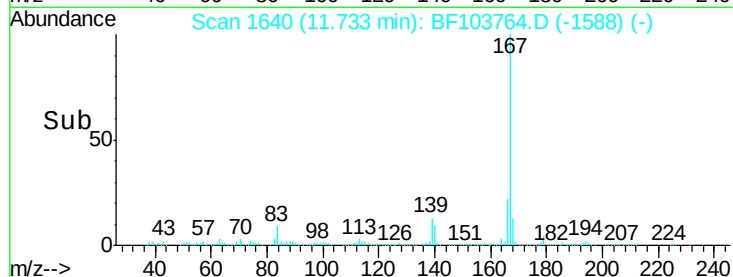
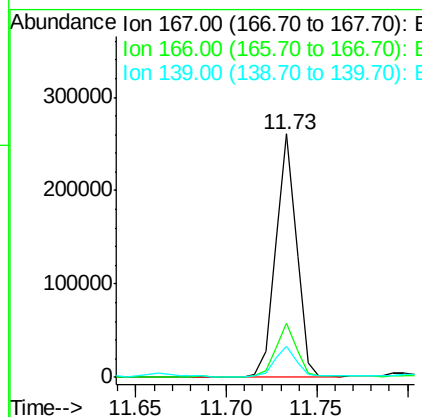
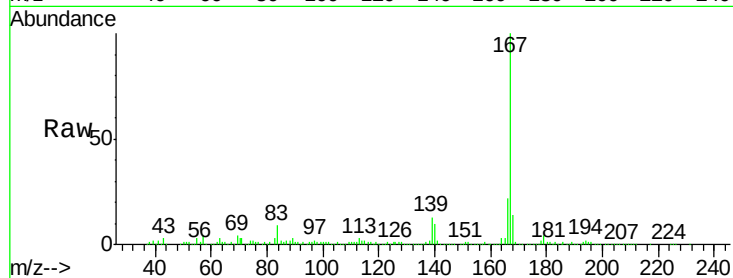
ClientSampleId :

SB-113(4-5)

Tot Ion:	167	Resp:	206249
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.6	26.4
139	13.0	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 62.194 ng

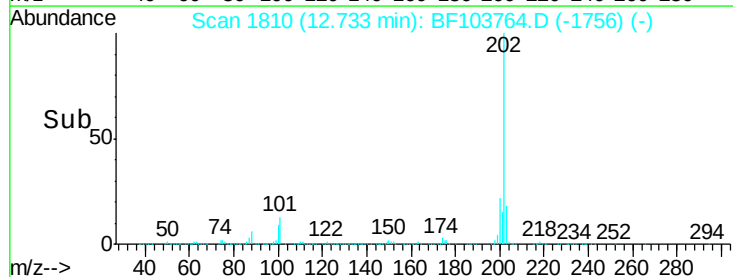
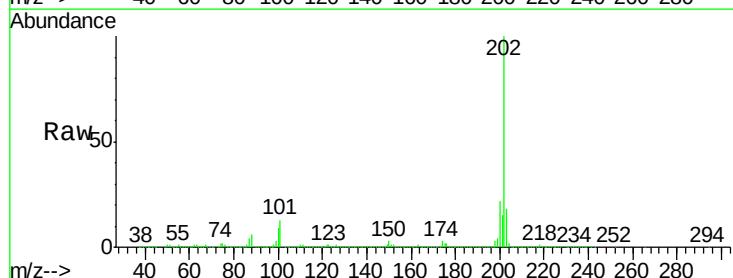
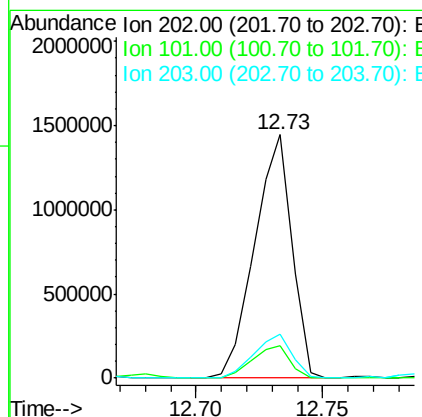
RT: 12.73 min Scan# 1810

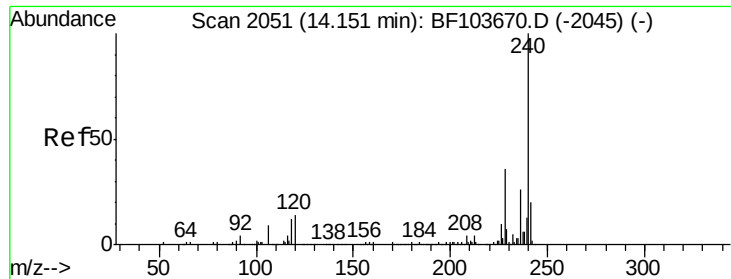
Delta R.T. 0.02 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tgt Ion:	202	Resp:	1469672
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. 0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Instrument :

BNA_F

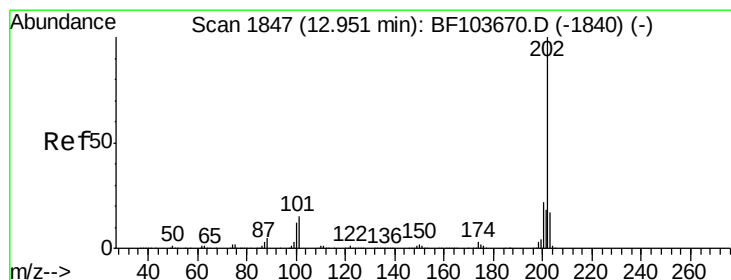
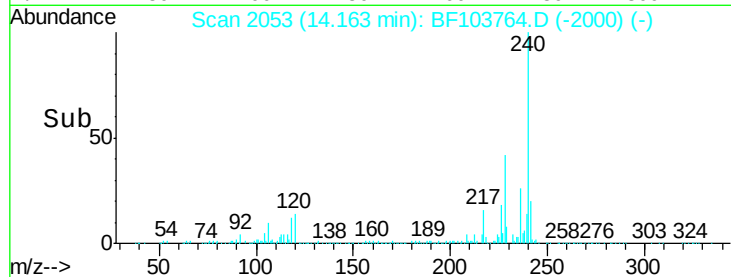
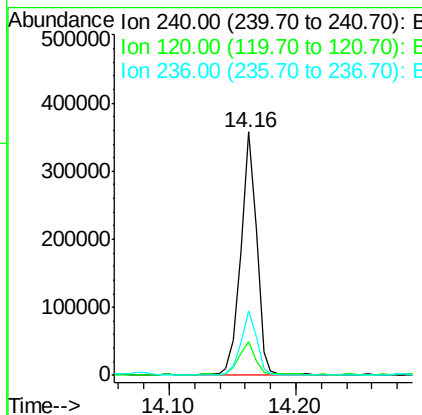
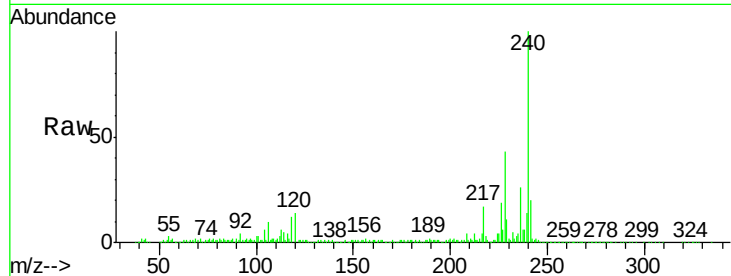
ClientSampleId :

SB-113(4-5)

Tot Ion:	240	Resp:	305089
Ion Ratio	Lower	Upper	
240	100		
120	14.0	9.5	14.3
236	26.3	20.7	31.1

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#77

Pyrene

Concen: 58.640 ng

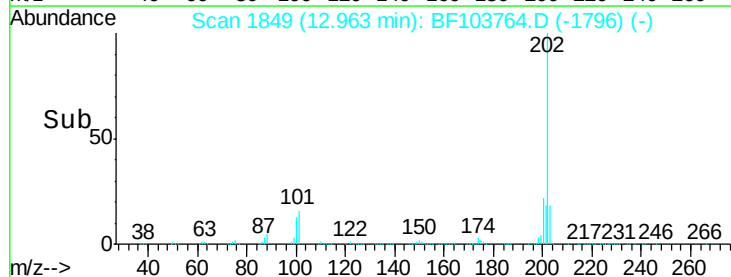
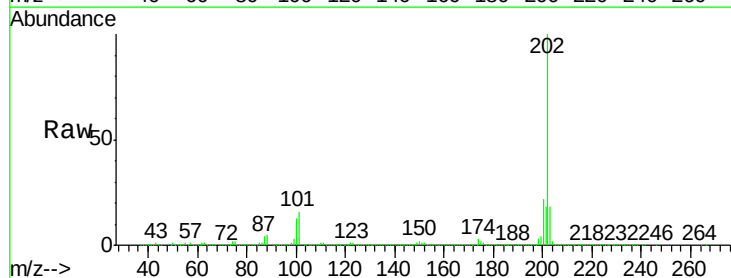
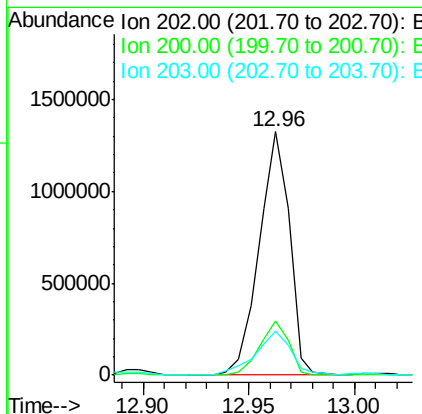
RT: 12.96 min Scan# 1849

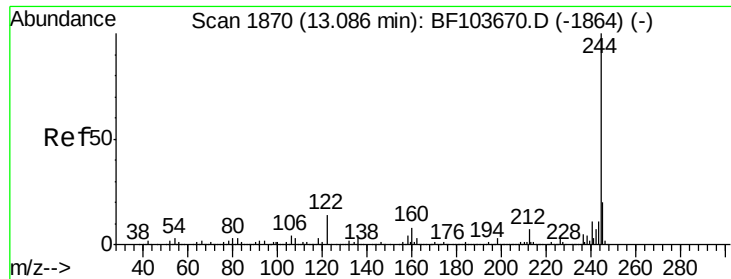
Delta R.T. 0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tgt Ion:	202	Resp:	1313849
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	18.1	14.3	21.5





#78

Terphenyl-d14

Concen: 16.315 ng

RT: 13.09 min Scan# 1871

Delta R.T. 0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Instrument :

BNA_F

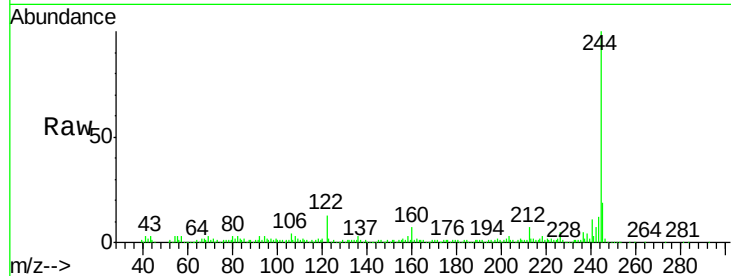
ClientSampled :

SB-113(4-5)

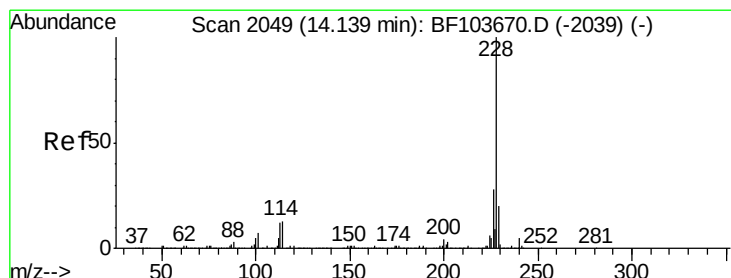
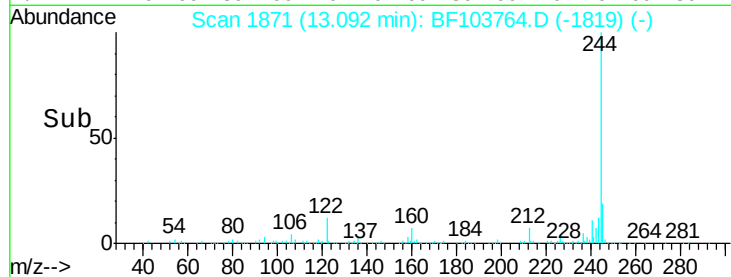
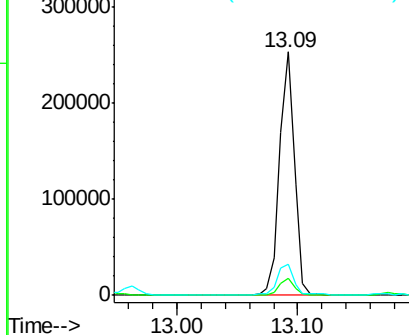
Tot Ion:	244	Resp:	214448
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.0
122	13.0	11.0	16.4

Manual Integrations
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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: 35.242 ng m

RT: 14.15 min Scan# 2051

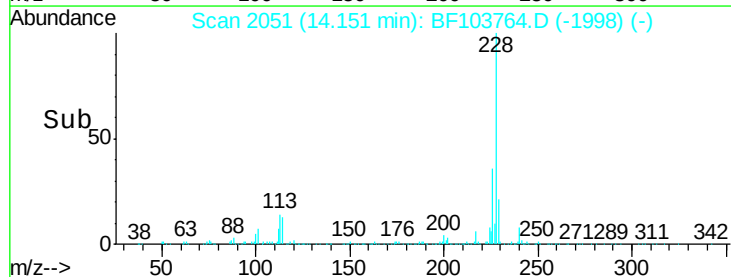
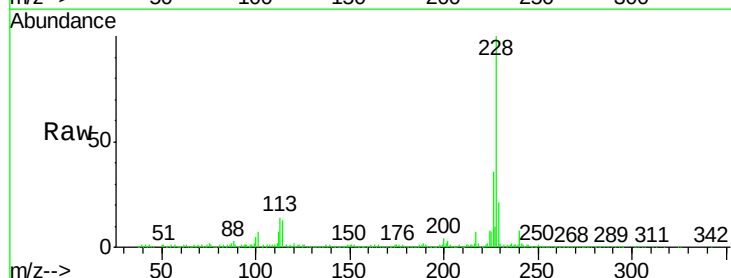
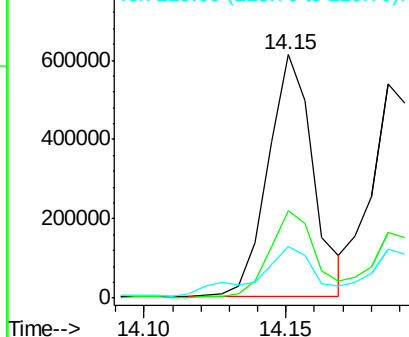
Delta R.T. 0.01 min

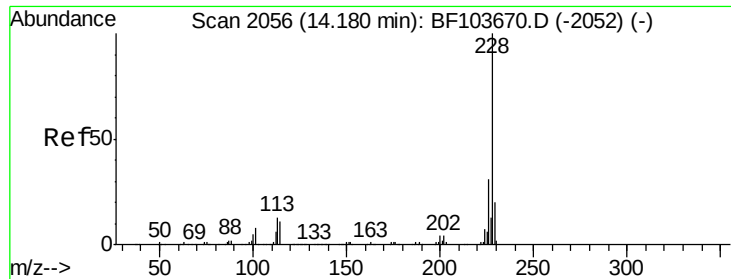
Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tgt Ion:	228	Resp:	680601
Ion Ratio	Lower	Upper	
228	100		
226	35.9	22.6	33.8#
229	21.1	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: 29.828 ng

RT: 14.19 min Scan# 2057

Delta R.T. 0.01 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Instrument :

BNA_F

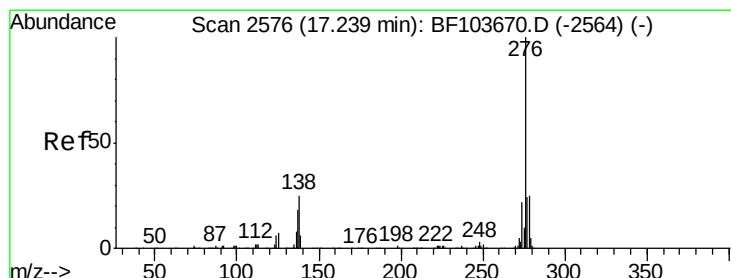
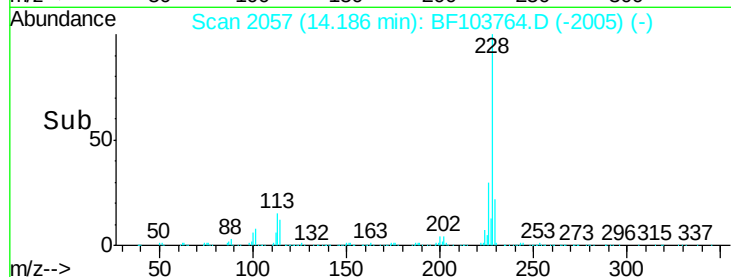
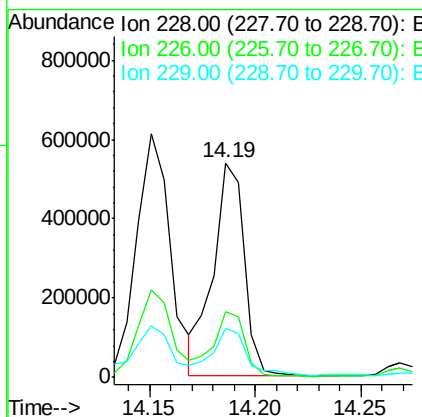
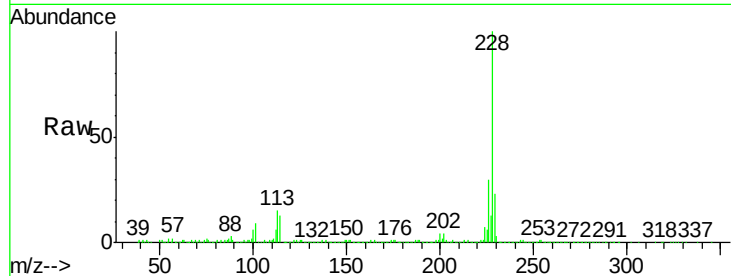
ClientSampled :

SB-113(4-5)

Tot Ion:	228	Resp:	549119
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	22.8	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 12.704 ng

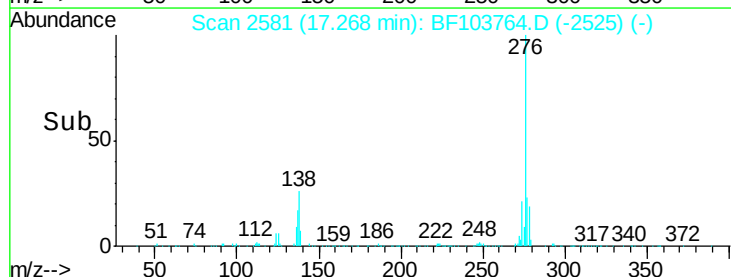
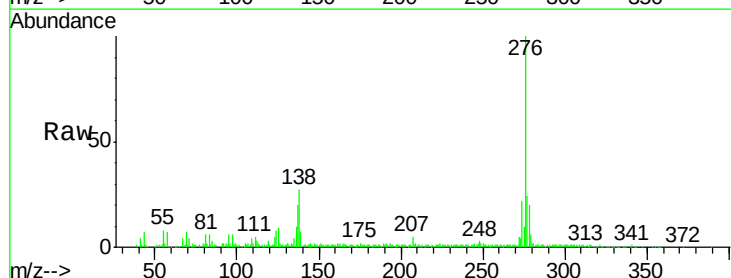
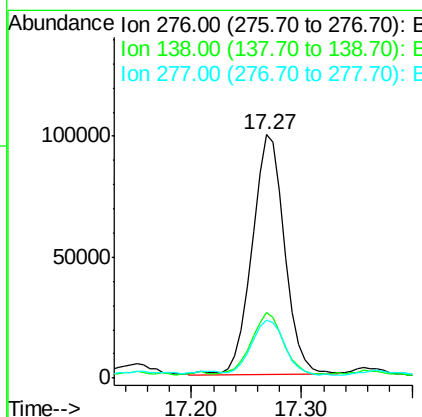
RT: 17.27 min Scan# 2581

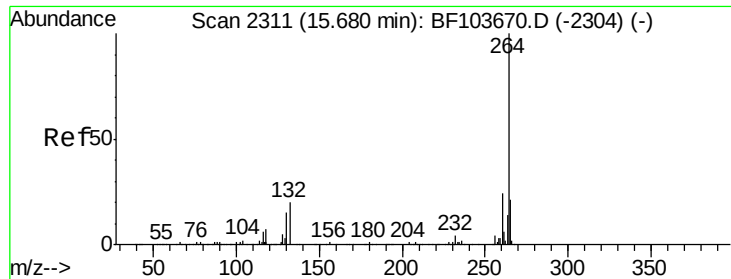
Delta R.T. 0.03 min

Lab File: BF103764.D

Acq: 19 Mar 2018 19:10

Tgt Ion:	276	Resp:	204236
Ion Ratio	Lower	Upper	
276	100		
138	25.3	25.0	37.6
277	24.0	20.1	30.1





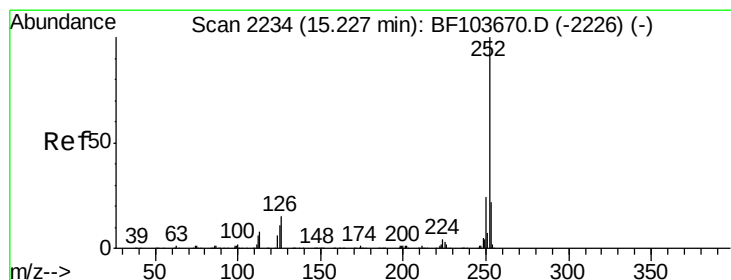
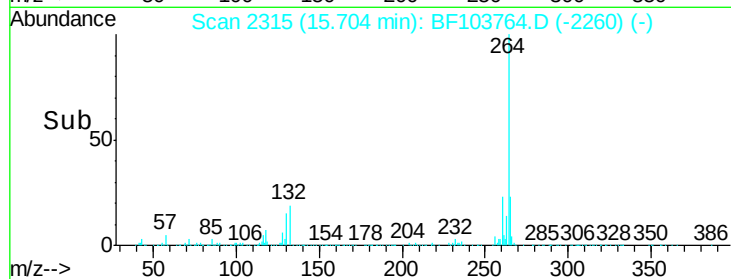
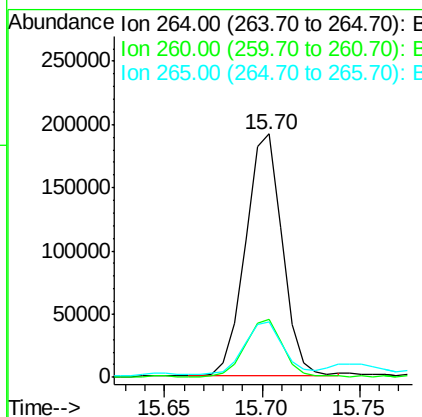
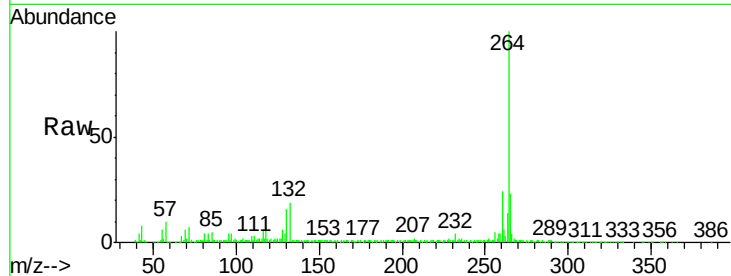
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.02 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampled :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	23.0	17.5	26.3

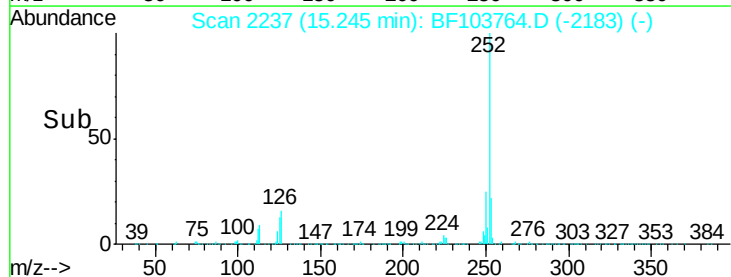
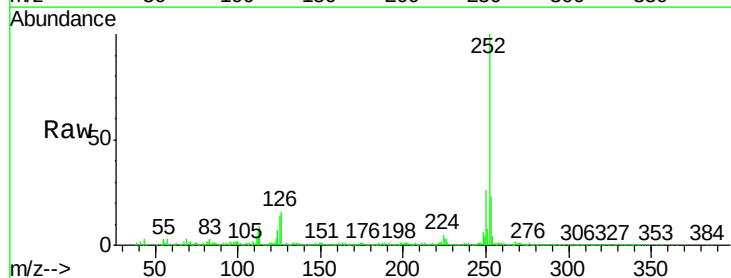
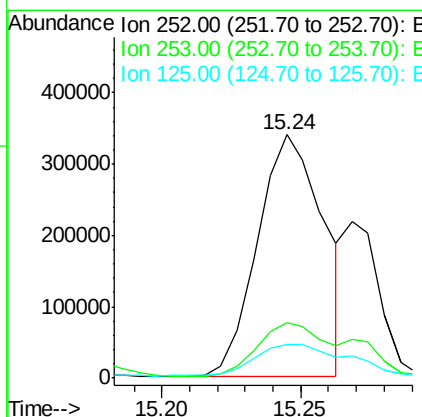
Manual Integrations
APPROVED

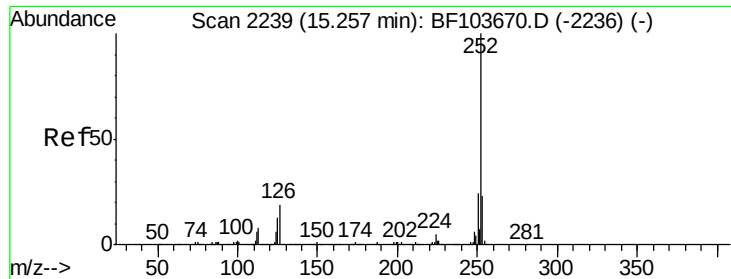
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#87
Benzo(b)fluoranthene
Concen: 35.278 ng m
RT: 15.24 min Scan# 2237
Delta R.T. 0.02 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.1	9.0	13.6





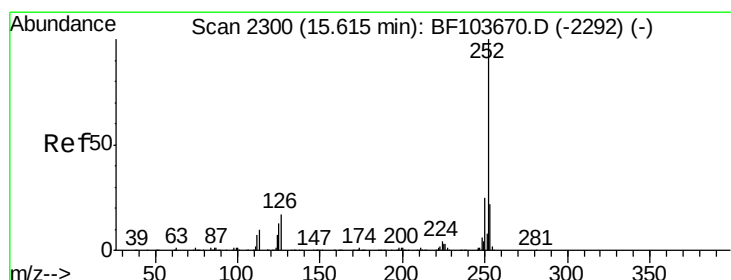
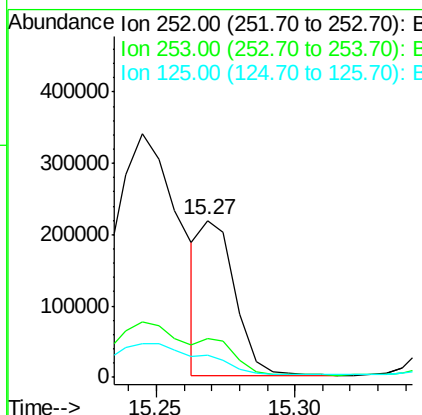
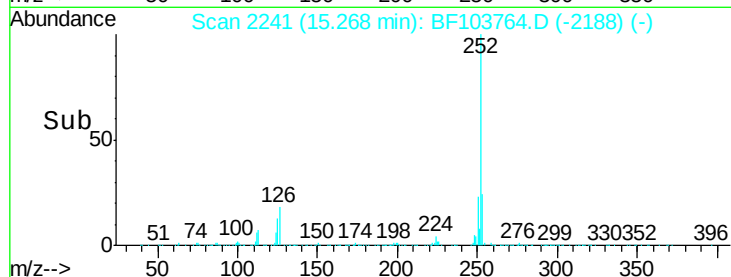
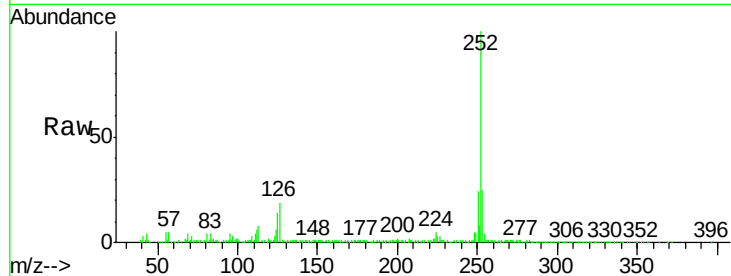
#88
Benzo(k)fluoranthene
Concen: 12.292 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.01 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampleId :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.9	26.9
125	14.4	10.2	15.2

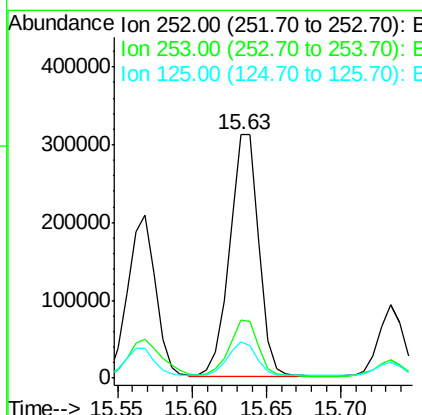
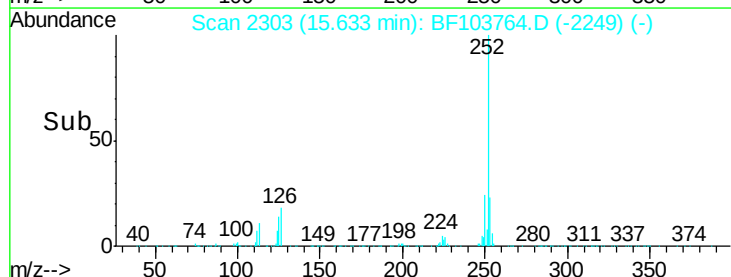
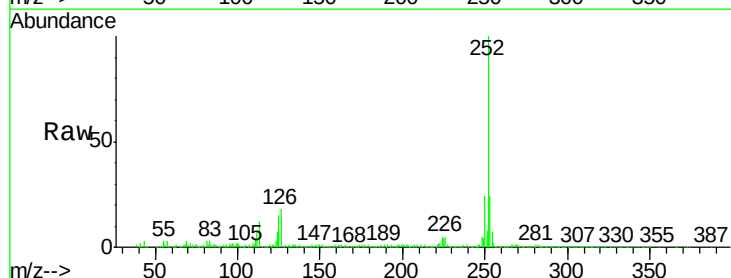
Manual Integrations
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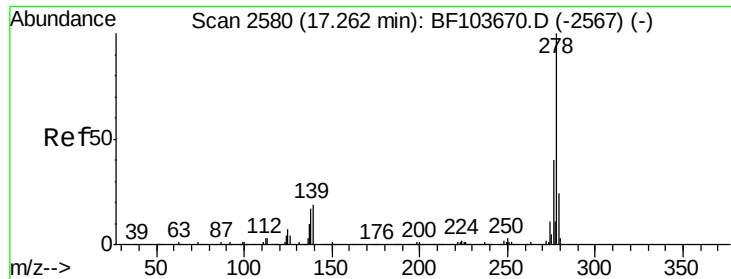
Sohil
3/20/2018 6:26:38 PM



#89
Benzo(a)pyrene
Concen: 29.570 ng
RT: 15.63 min Scan# 2303
Delta R.T. 0.02 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.1	25.7
125	14.9	9.8	14.6





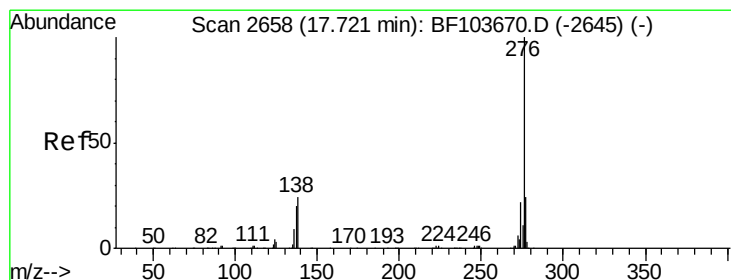
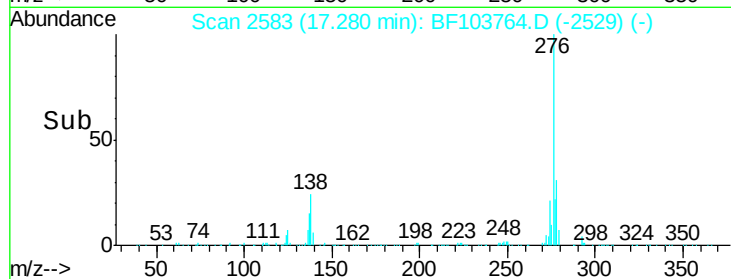
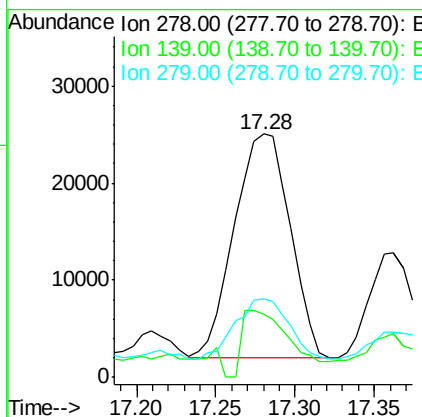
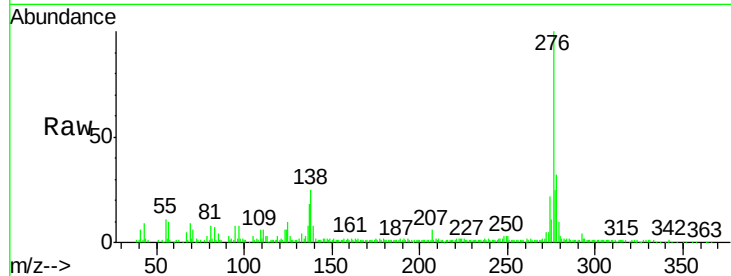
#90
Dibenzo(a,h)anthracene
Concen: 4.533 ng
RT: 17.28 min Scan# 2583
Delta R.T. 0.02 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Instrument :
BNA_F
ClientSampleId :
SB-113(4-5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.0	15.9	23.9#
279	32.0	19.0	28.4#

Manual Integrations
APPROVED

Sohil
3/20/2018 6:26:38 PM



#91
Benzo(g,h,i)perylene
Concen: 15.197 ng
RT: 17.75 min Scan# 2663
Delta R.T. 0.03 min
Lab File: BF103764.D
Acq: 19 Mar 2018 19:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	17.9	26.9
138	27.7	21.8	32.8

