

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
 Data File : BF103786.D
 Acq On : 20 Mar 2018 5:57
 Operator : JU/SJ
 Sample : J1946-01DL 50X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL

Manual Integrations
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 3/20/2018 6:27:46 PM

Quant Time: Mar 20 10:29:26 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	141949	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	563838	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	252451	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	404413	20.00	ng	0.01
75) Chrysene-d12	14.16	240	291722	20.00	ng	0.01
86) Perylene-d12	15.70	264	259956	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	24171	2.59	ng	0.00
7) Phenol-d6	6.57	99	30523	2.67	ng	-0.01
23) Nitrobenzene-d5	7.53	82	15705	1.94	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	4691	2.16	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	34642	2.19	ng	0.00
78) Terphenyl-d14	13.09	244	28155	2.24	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.28	128	2385247	83.745	ng	98
37) 2-Methylnaphthalene	8.97	142	881440	48.800	ng	99
45) 1,1'-Biphenyl	9.43	154	188690	8.964	ng	98
48) Acenaphthylene	9.87	152	357249	13.779	ng	97
51) Acenaphthene	10.05	154	168121	10.921	ng	99
54) Dibenzofuran	10.22	168	45422	2.066	ng	# 91
57) Fluorene	10.56	166	311061	18.232	ng	99
70) Phenanthrene	11.53	178	1070919	48.409	ng	99
71) Anthracene	11.58	178	297125	13.224	ng	100
74) Fluoranthene	12.73	202	387216	16.990	ng	98
77) Pyrene	12.96	202	606032	28.288	ng	99
80) Benzo(a)anthracene	14.15	228	206906m	11.205	ng	
82) Chrysene	14.19	228	221655m	12.592	ng	
85) Indeno(1,2,3-cd)pyrene	17.27	276	53346	3.470	ng	94
87) Benzo(b)fluoranthene	15.25	252	141425m	8.611	ng	
88) Benzo(k)fluoranthene	15.27	252	35335m	2.238	ng	
89) Benzo(a)pyrene	15.64	252	147880	9.927	ng	97
91) Benzo(g,h,i)perylene	17.75	276	59350	4.730	ng	98

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

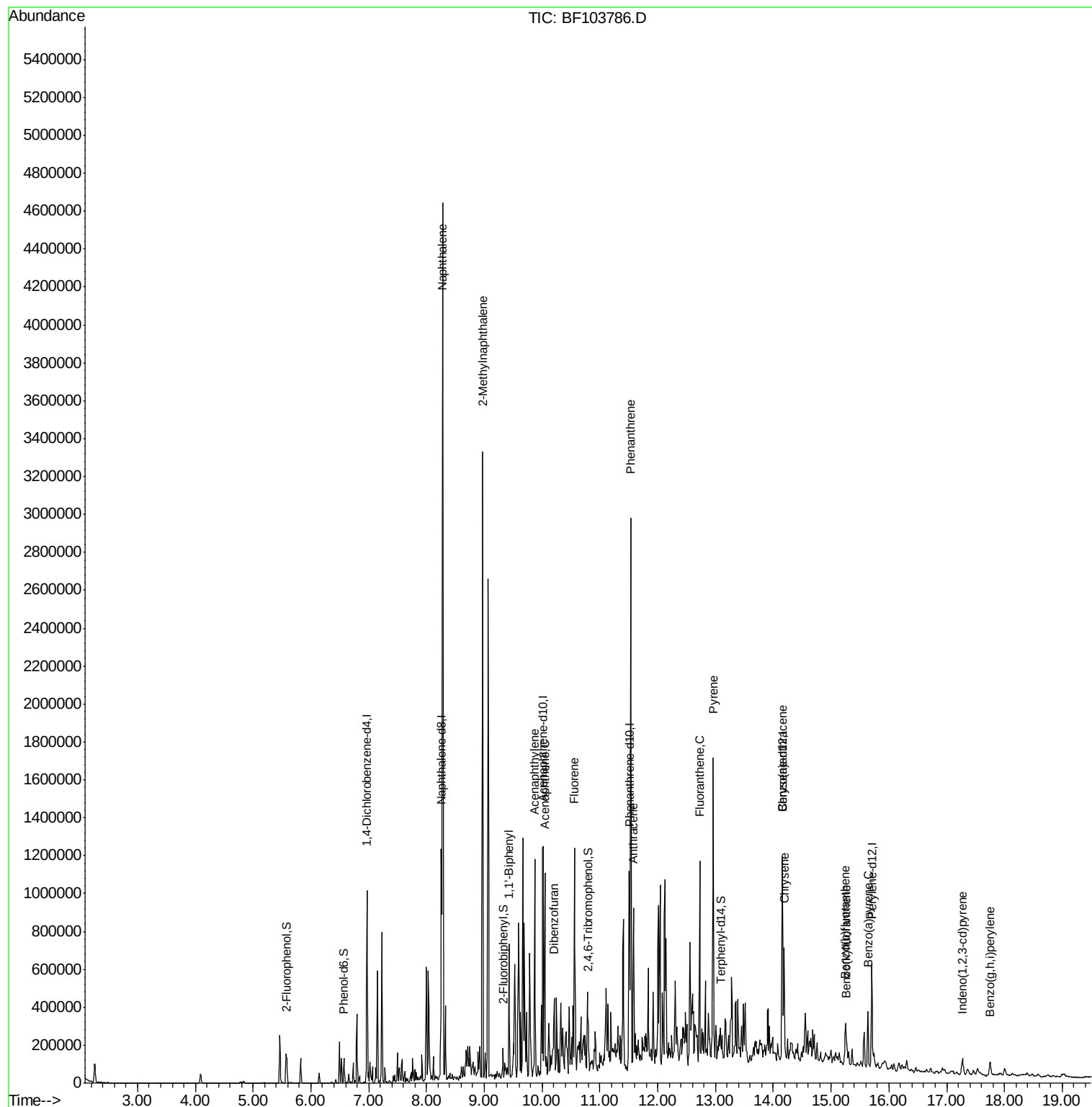
Data Path : Z:\HPCHEM1\BNA F\DATA\BF031918\
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ALS Vial : 27 Sample Multiplier: 1

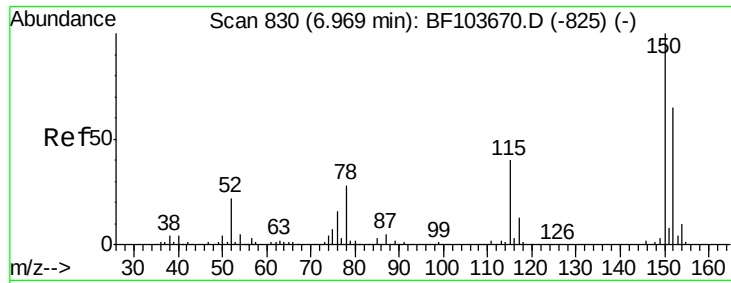
Instrument :
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SB-104(4-5)DL

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#1

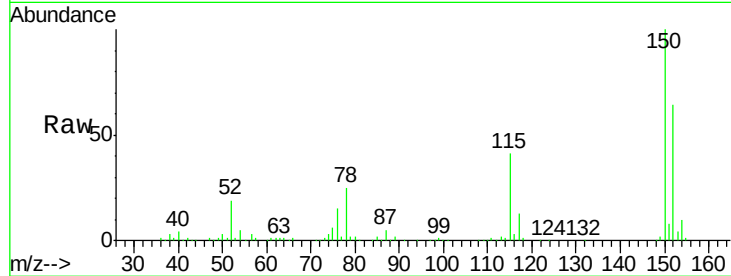
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	124.6	186.8
115	64.5	50.1	75.1

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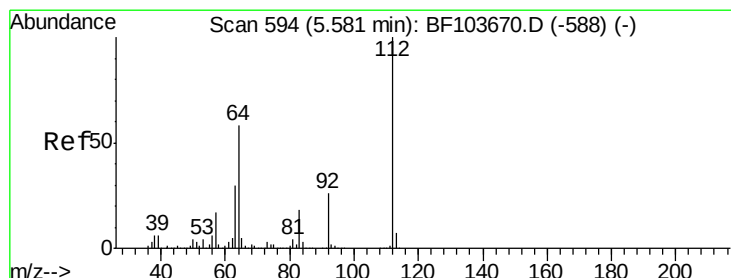
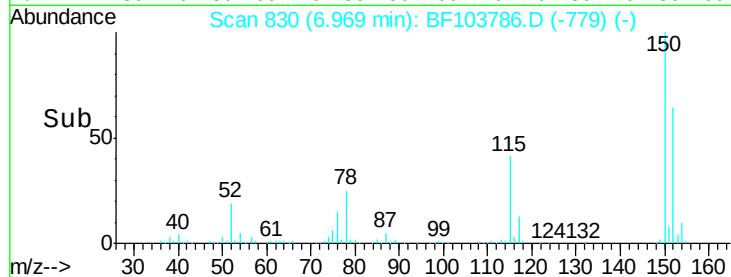
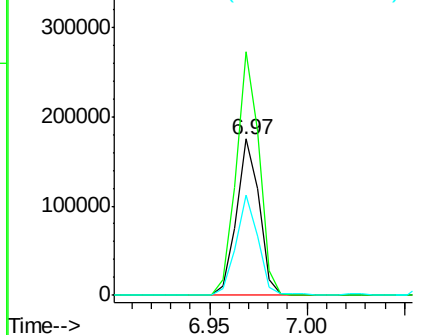


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

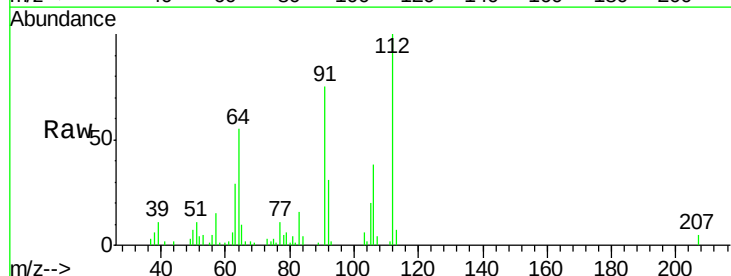
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 2.590 ng
RT: 5.58 min Scan# 594
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	47.9	71.9
63	28.6	23.7	35.5

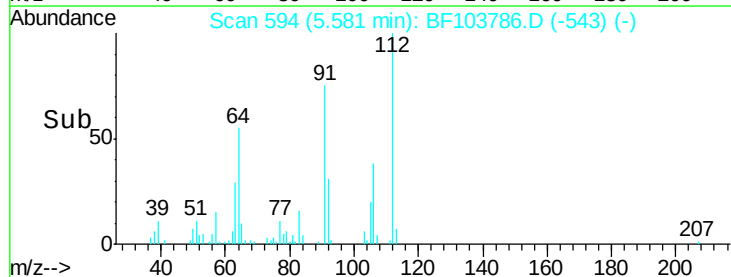
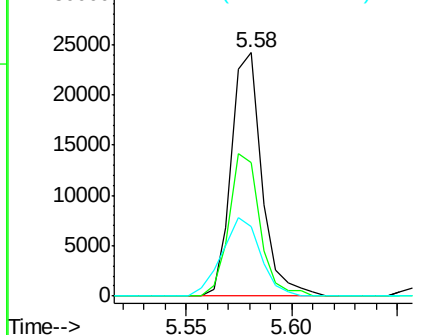


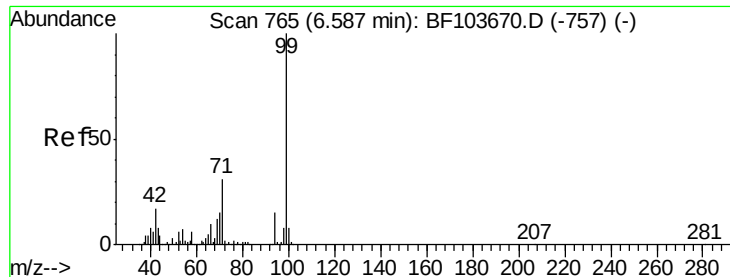
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 2.673 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Instrument :

BNA_F

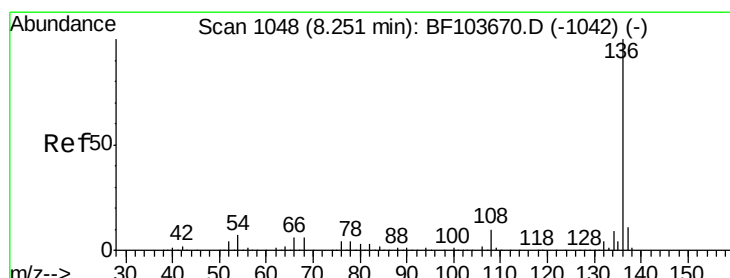
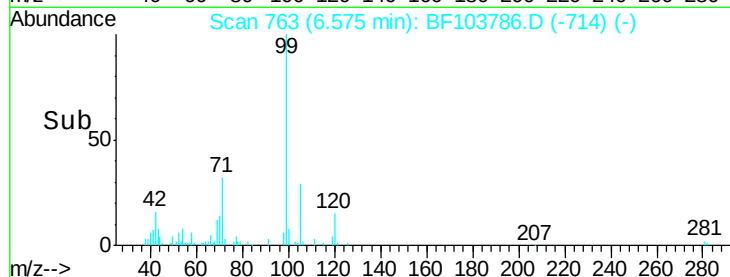
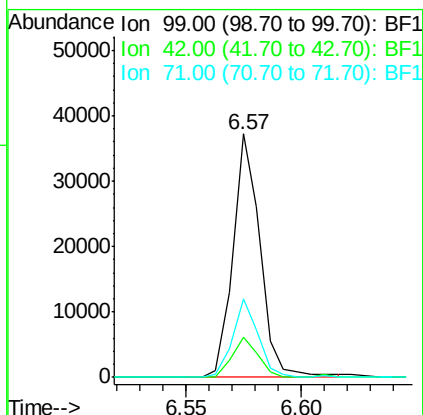
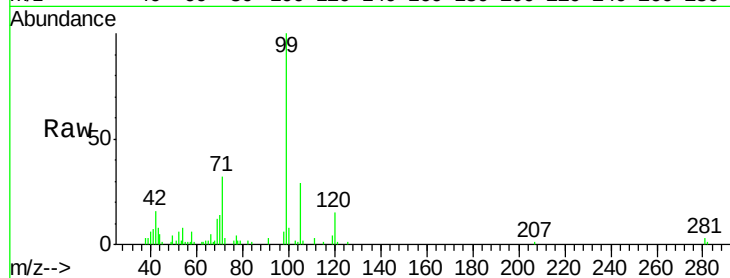
ClientSampled :

SB-104(4-5)DL

Tot Ion:	99	Resp:	30523
Ion Ratio	Lower	Upper	
99	100		
42	16.4	14.5	21.7
71	32.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

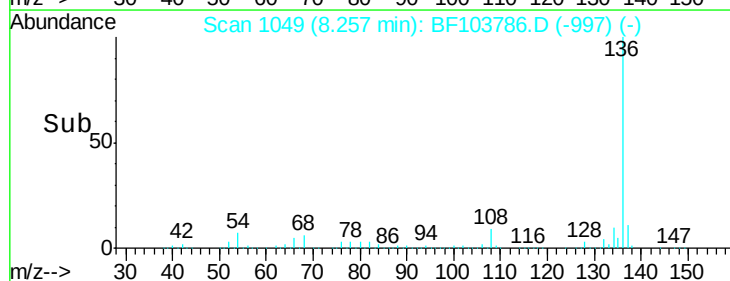
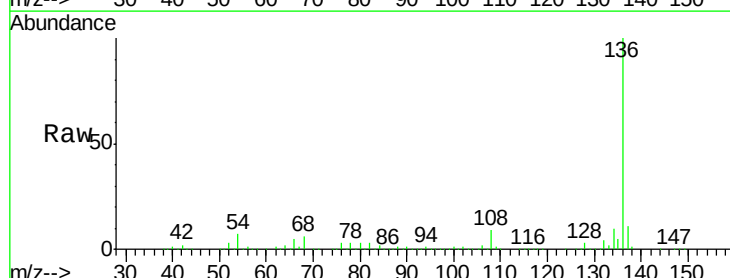
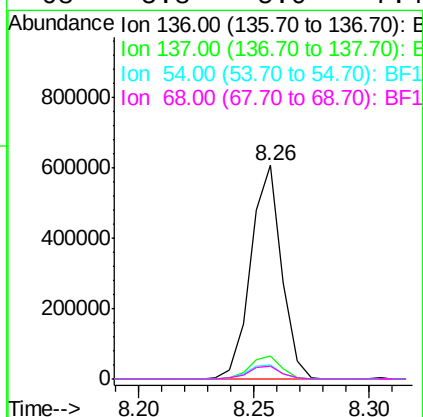
RT: 8.26 min Scan# 1049

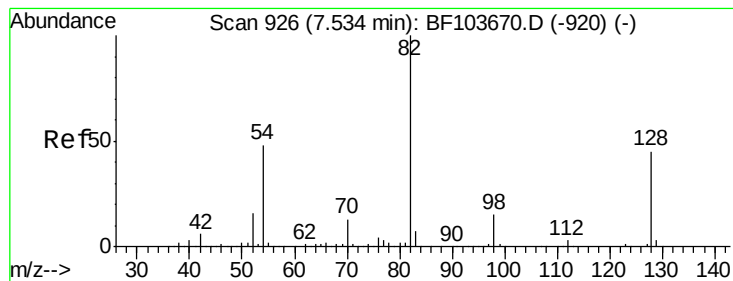
Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Tgt Ion:	136	Resp:	563838
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	6.5	6.6	9.8#
68	5.8	5.0	7.4





#23

Nitrobenzene-d5

Concen: 1.942 ng

RT: 7.53 min Scan# 925

Delta R.T. -0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Instrument :

BNA_F

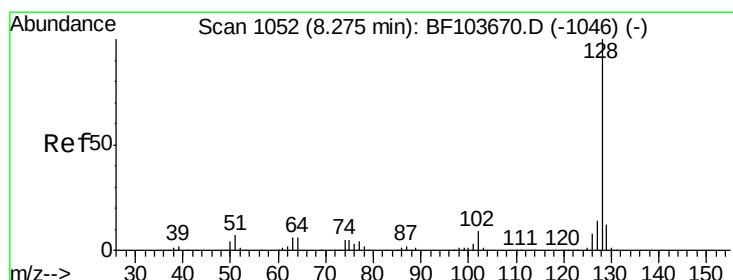
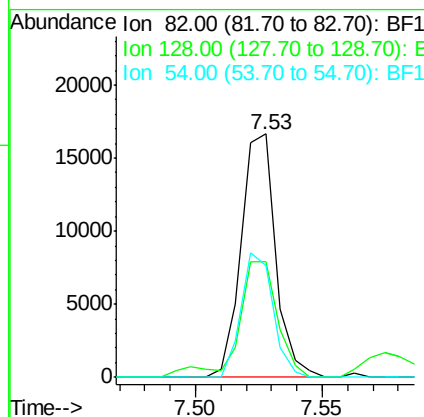
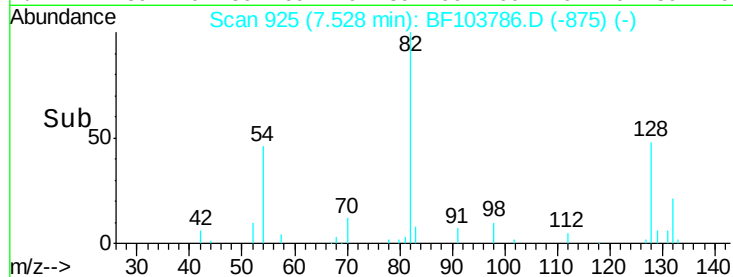
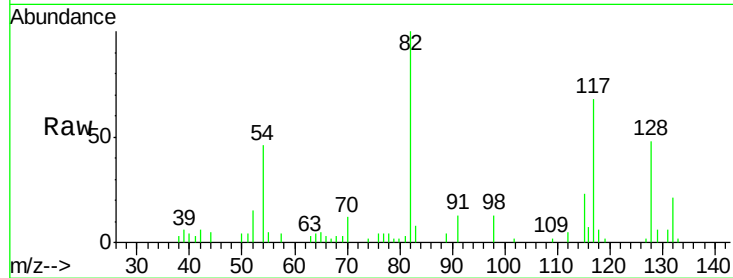
ClientSampleId :

SB-104(4-5)DL

Tot Ion:	82	Resp:	15705
Ion Ratio	Lower	Upper	
82	100		
128	47.6	36.1	54.1
54	46.1	41.4	62.2

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#31

Naphthalene

Concen: 83.745 ng

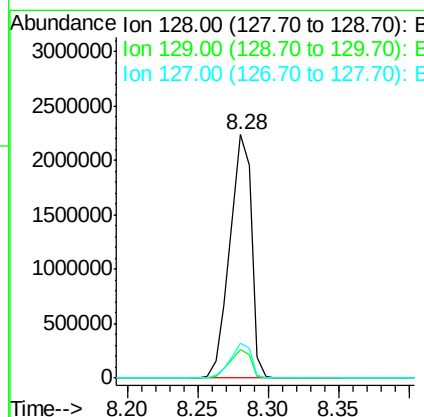
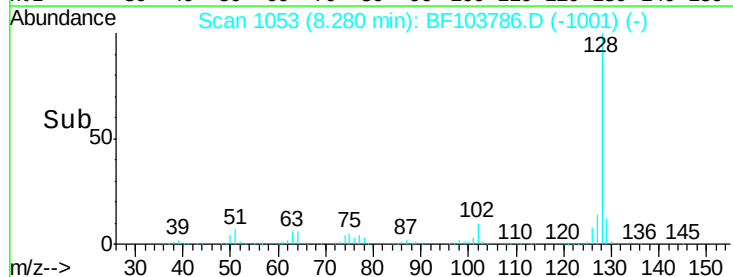
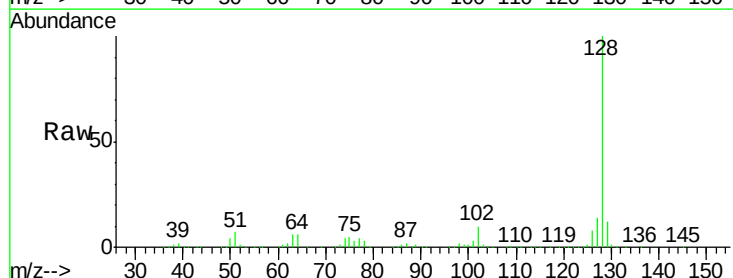
RT: 8.28 min Scan# 1053

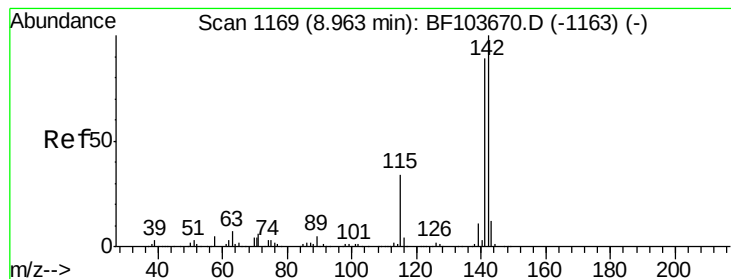
Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Tgt Ion:	128	Resp:	2385247
Ion Ratio	Lower	Upper	
128	100		
129	11.8	8.8	13.2
127	14.3	10.9	16.3





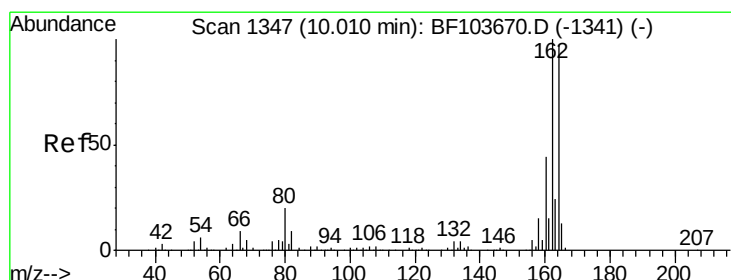
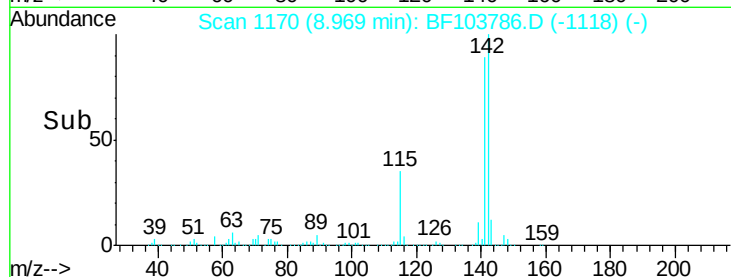
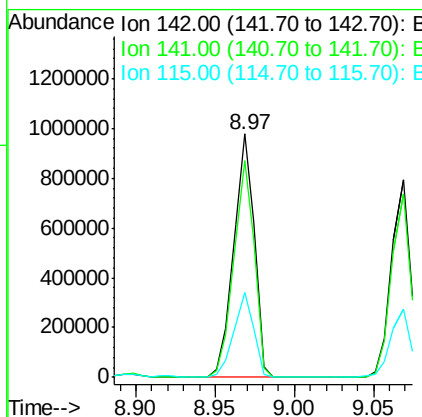
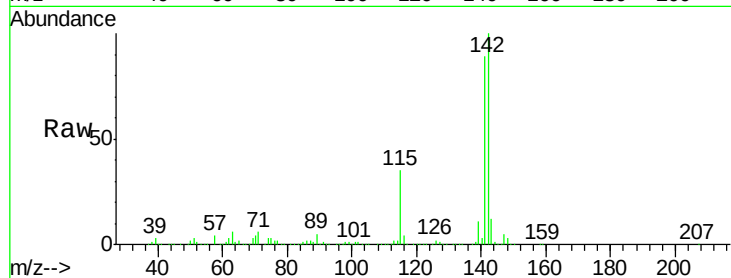
#37
2-Methylnaphthalene
Concen: 48.800 ng
RT: 8.97 min Scan# 1170
Delta R.T. 0.01 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.8	106.2
115	34.7	26.1	39.1

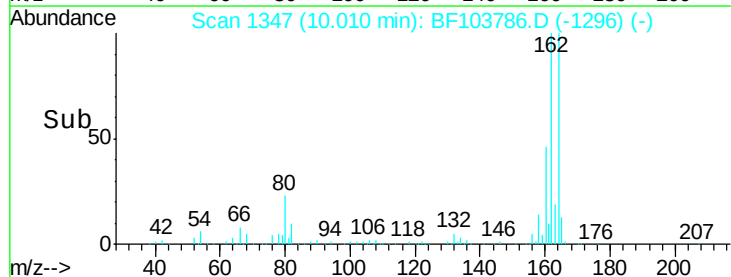
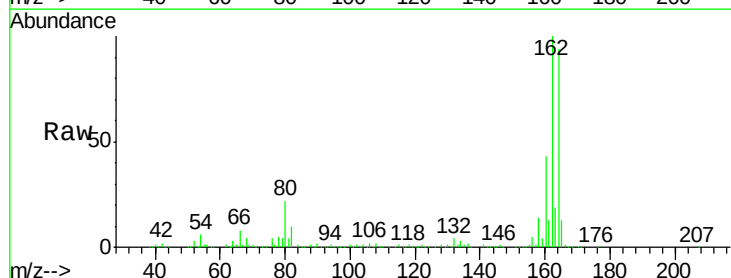
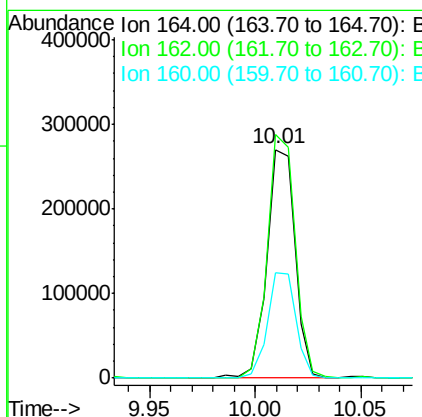
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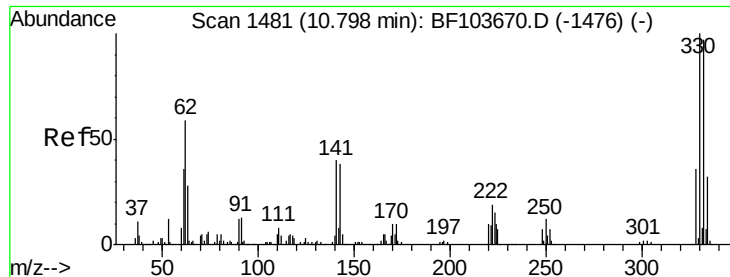
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.6	86.1	129.1
160	46.0	38.3	57.5





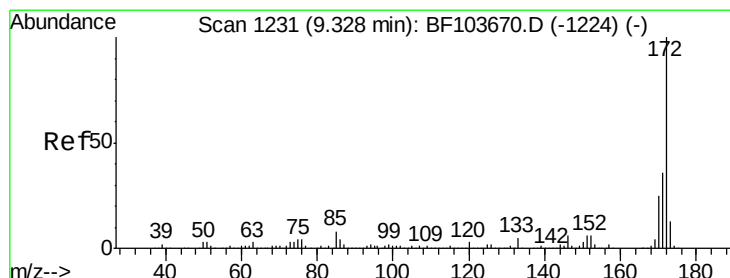
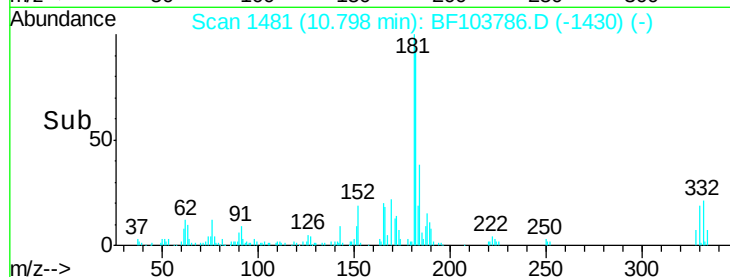
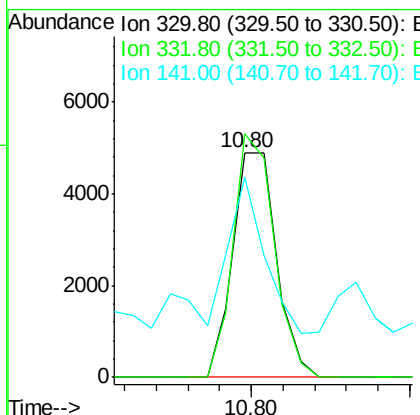
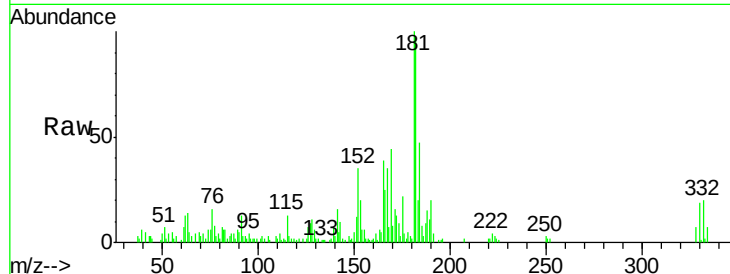
#41
 2,4,6-Tribromophenol
 Concen: 2.161 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: BF103786.D
 Acq: 20 Mar 2018 5:57

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.9	77.0	115.6
141	69.0	29.9	44.9

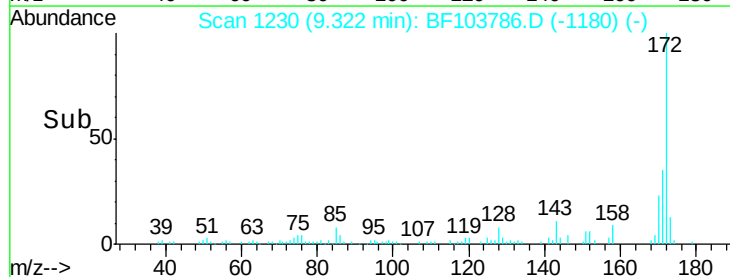
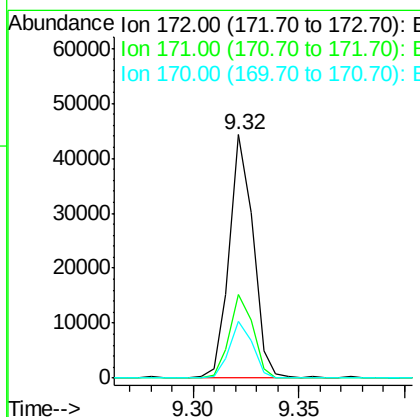
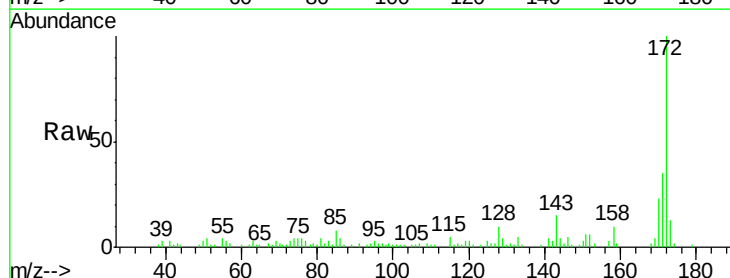
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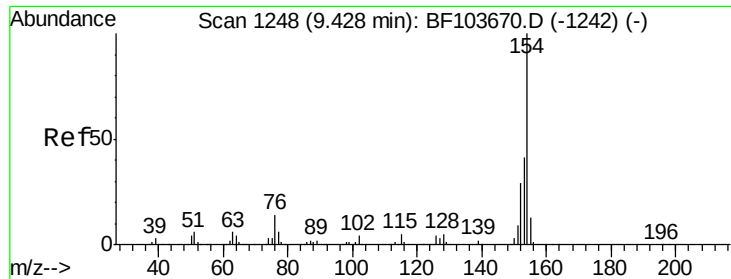
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#44
 2-Fluorobiphenyl
 Concen: 2.189 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF103786.D
 Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.7	44.5
170	23.2	19.6	29.4





#45

1,1'-Biphenyl

Concen: 8.964 ng

RT: 9.43 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Instrument :

BNA_F

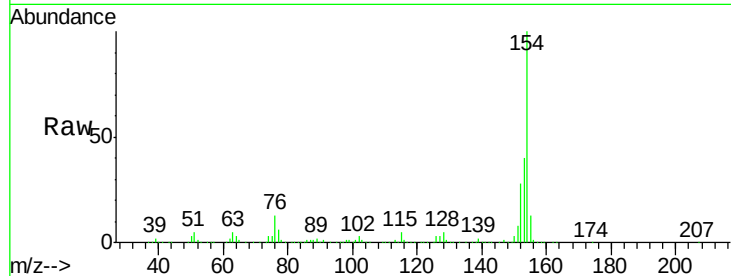
ClientSampleId :

SB-104(4-5)DL

Tot Ion:	154	Resp:	188690
Ion Ratio	Lower	Upper	
154	100		
153	39.8	21.3	61.3
76	12.8	0.0	34.0

Manual Integrations
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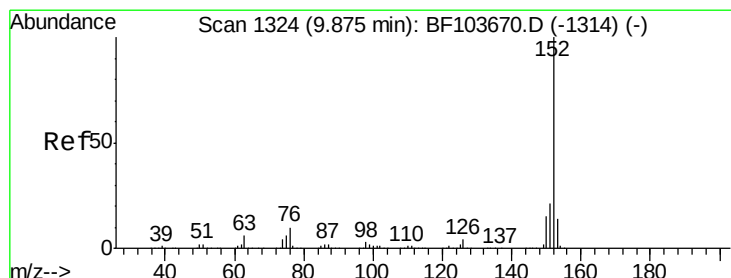
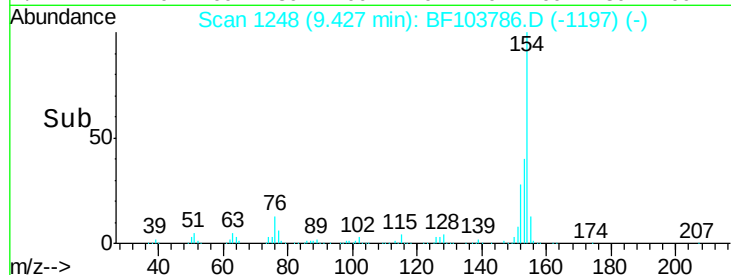
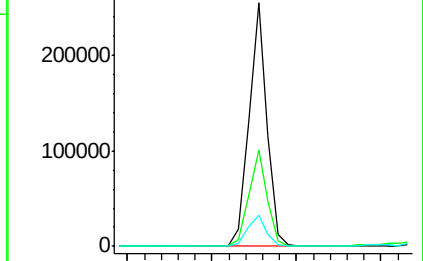
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 13.779 ng

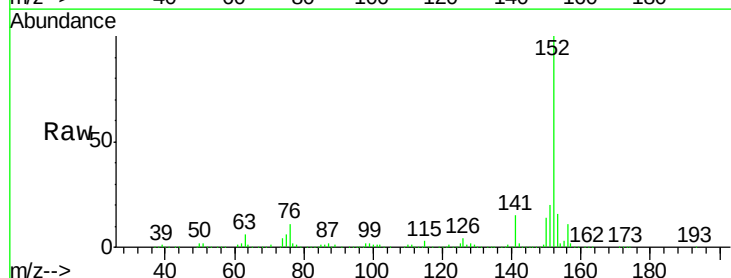
RT: 9.87 min Scan# 1324

Delta R.T. -0.00 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

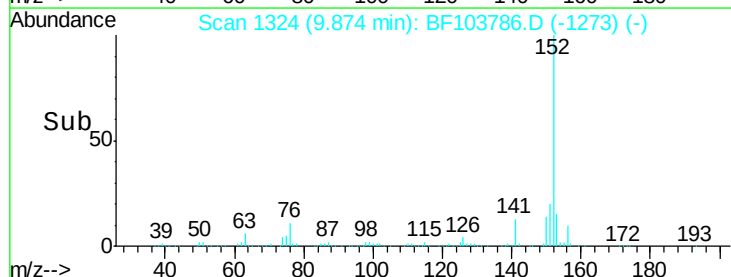
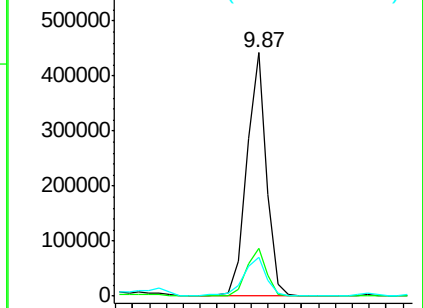
Tgt Ion:	152	Resp:	357249
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	15.7	10.7	16.1

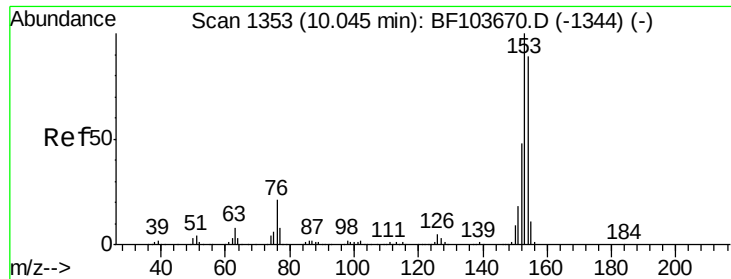


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





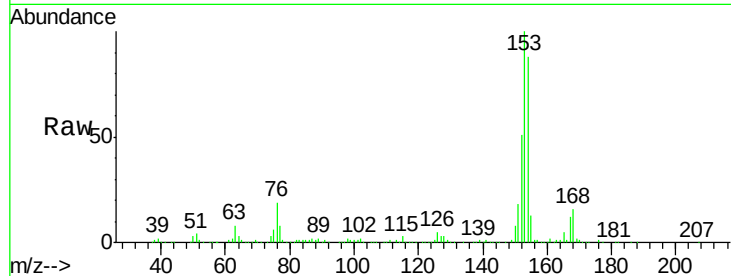
#51
Acenaphthene
Concen: 10.921 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

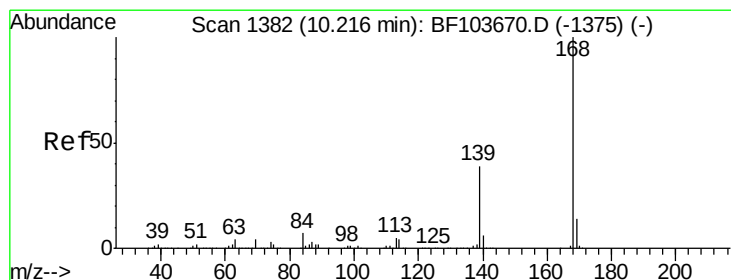
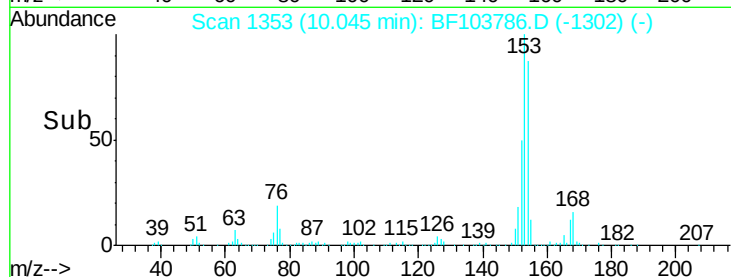
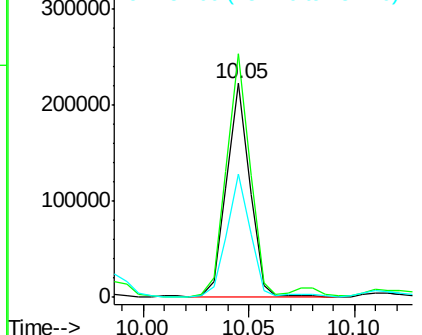
Tot Ion	Ratio	Resp	Lower	Upper
154	100	168121		
153	113.8	91.2	136.8	
152	57.7	43.8	65.8	

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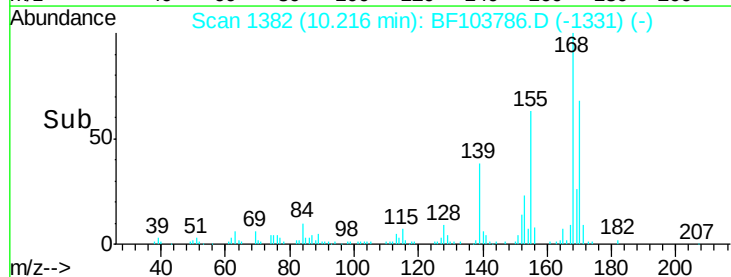
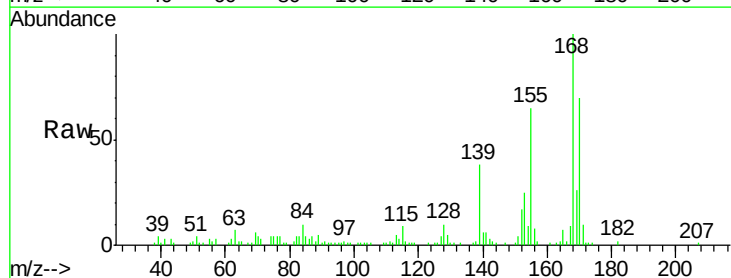
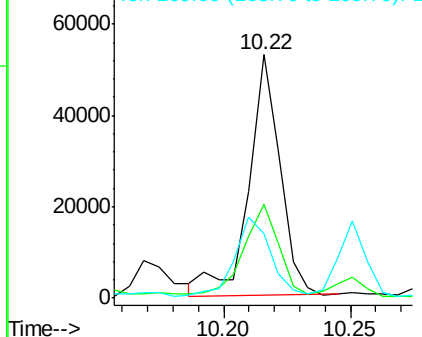
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

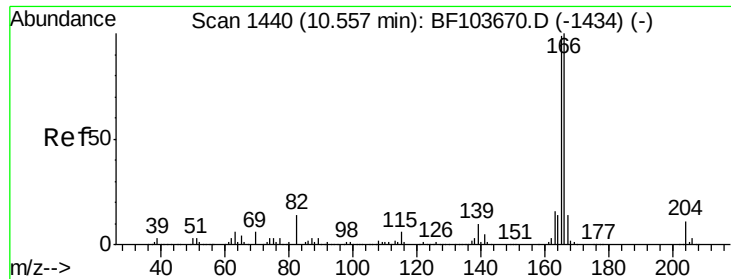


#54
Dibenzofuran
Concen: 2.066 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	45422		
139	38.3	30.1	45.1	
169	26.2	10.9	16.3#	

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





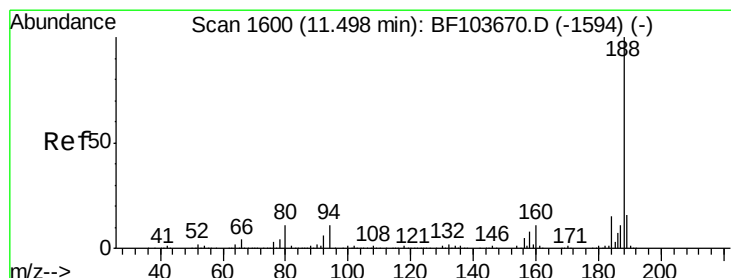
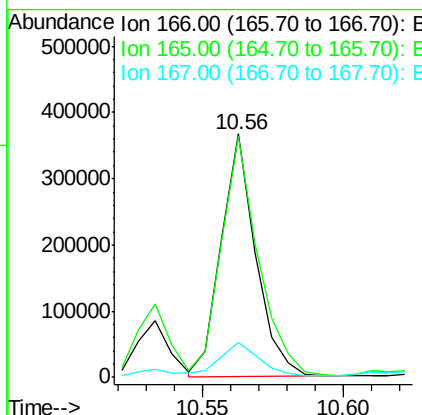
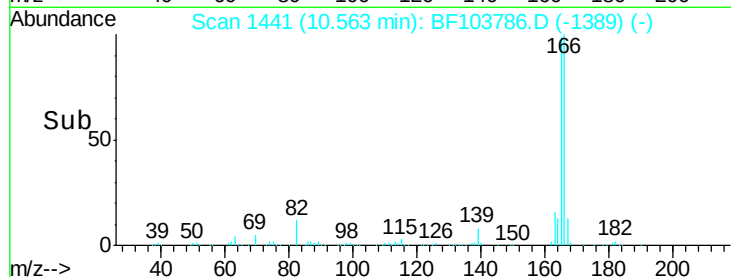
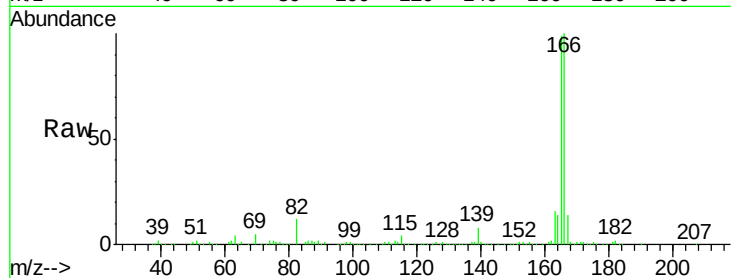
#57
Fluorene
 Concen: 18.232 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. 0.01 min
 Lab File: BF103786.D
 Acq: 20 Mar 2018 5:57

Instrument :
 BNA_F
 ClientSampleID :
 SB-104(4-5)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
311061	166	100			
	165	99.2	79.8	119.8	
	167	14.1	10.6	16.0	

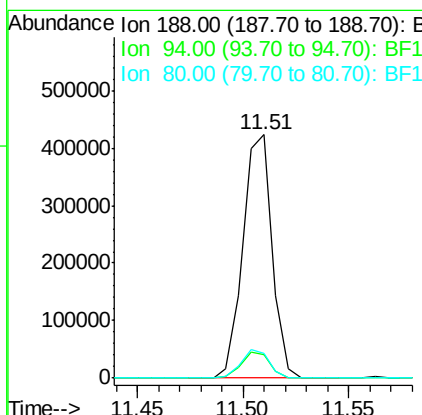
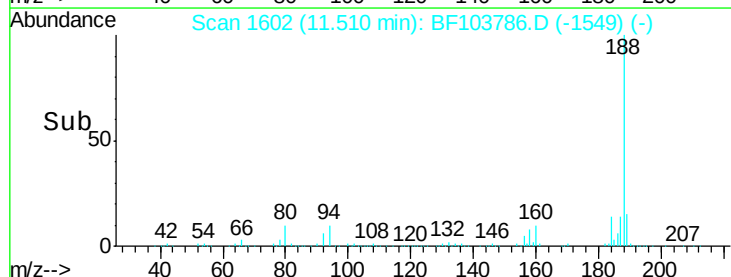
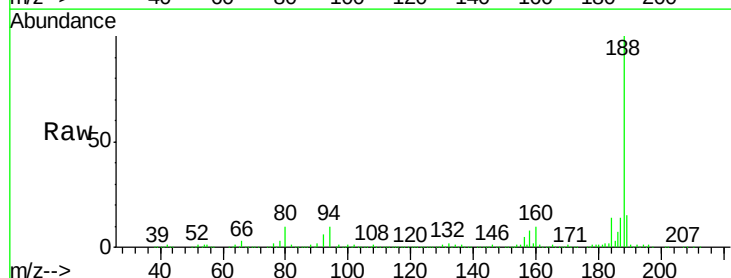
Manual Integrations
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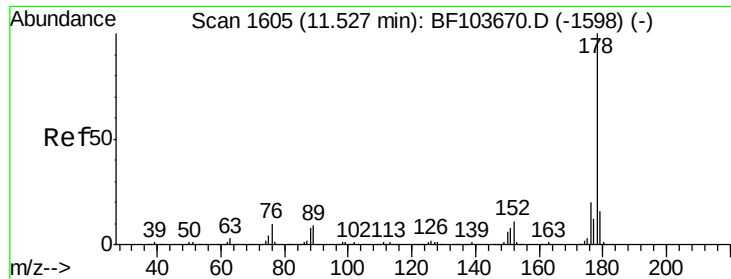
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: BF103786.D
 Acq: 20 Mar 2018 5:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
404413	188	100			
	94	9.8	8.5	12.7	
	80	10.3	9.2	13.8	





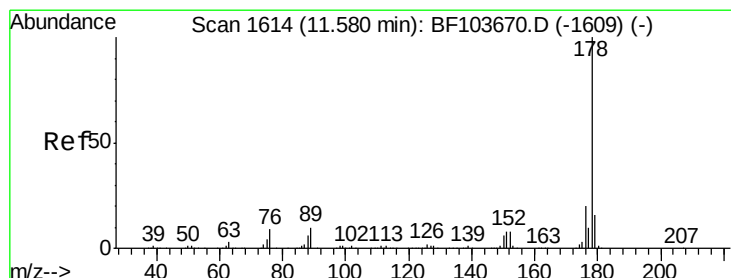
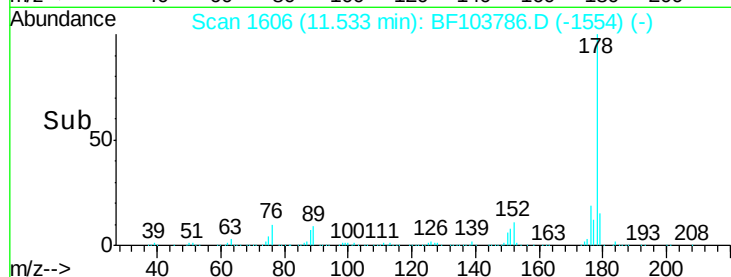
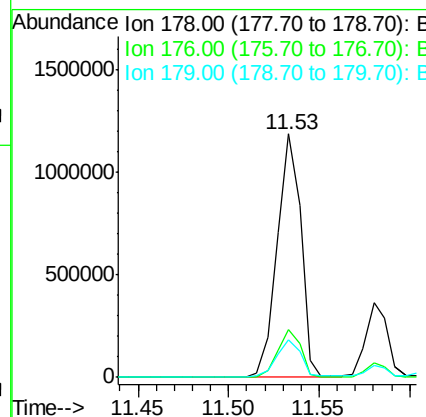
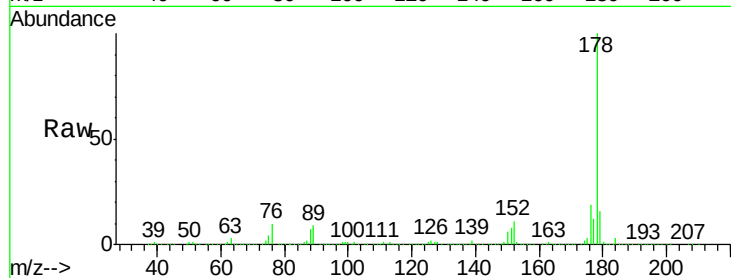
#70
Phenanthrene
Concen: 48.409 ng
RT: 11.53 min Scan# 1606
Delta R.T. 0.01 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion:178 Resp: 1070919
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.6 13.0 19.6

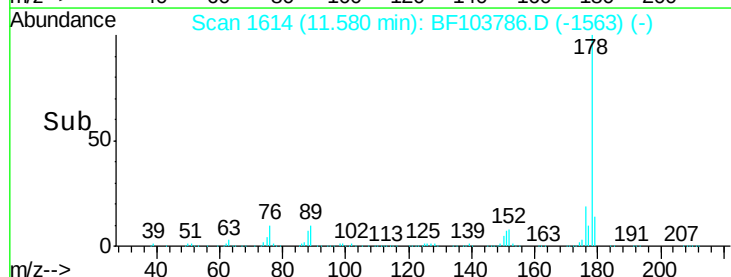
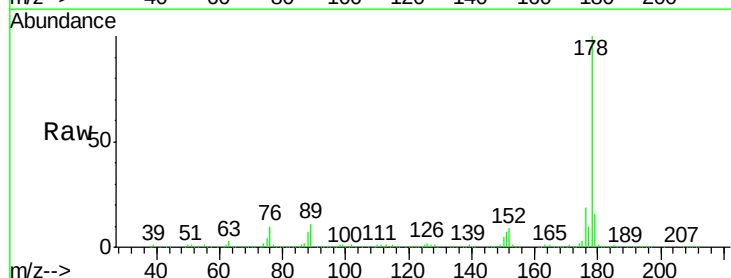
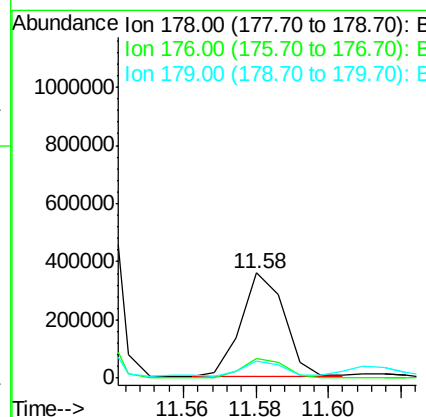
Manual Integrations
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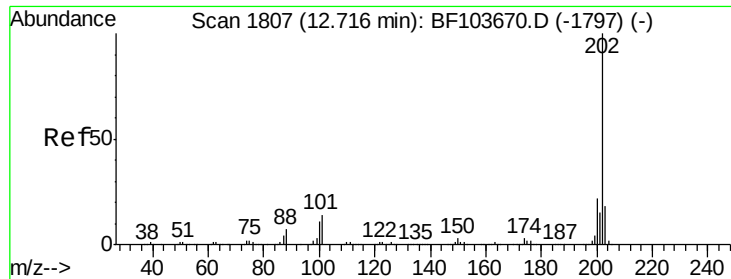
Sohil
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#71
Anthracene
Concen: 13.224 ng
RT: 11.58 min Scan# 1614
Delta R.T. -0.00 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion:178 Resp: 297125
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.6 12.6 19.0





#74

Fluoranthene

Concen: 16.990 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Instrument :

BNA_F

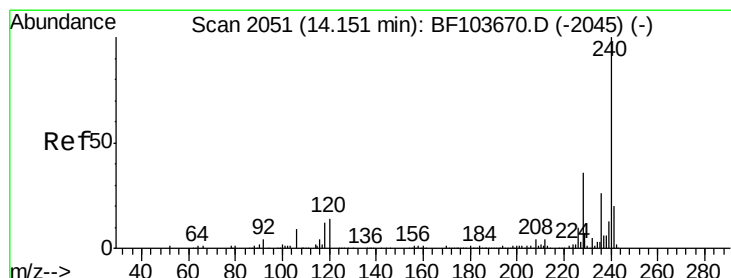
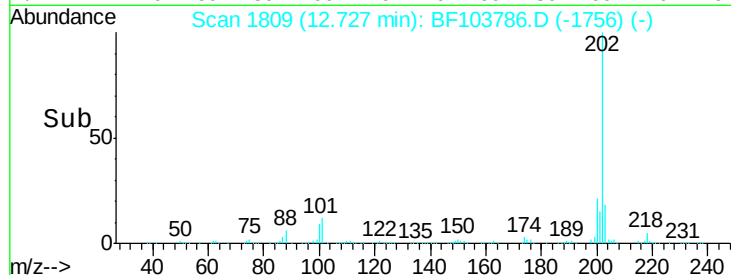
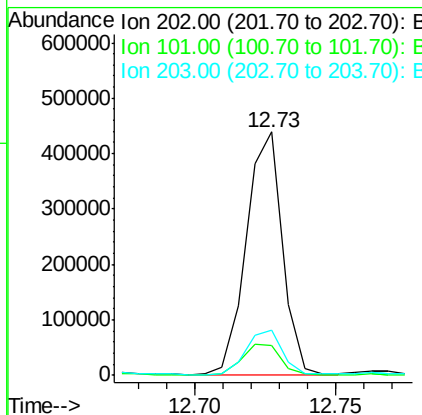
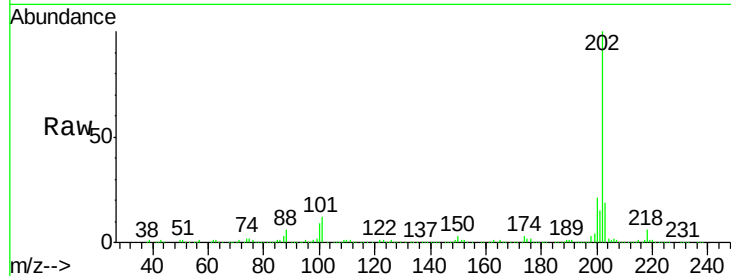
ClientSampleId :

SB-104(4-5)DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.3	0.0	34.1
203	18.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

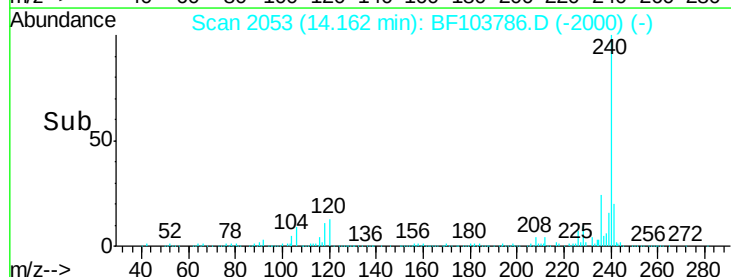
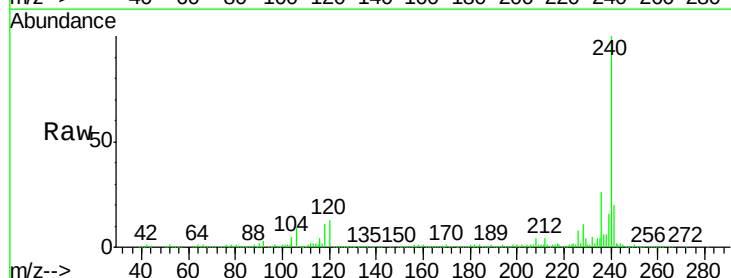
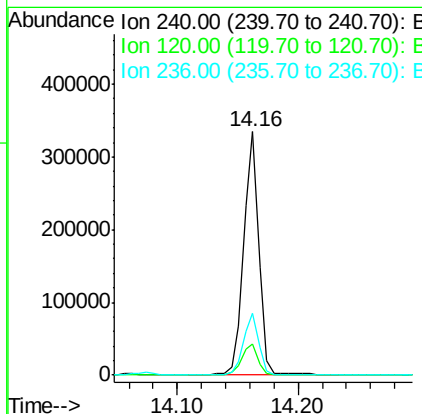
RT: 14.16 min Scan# 2053

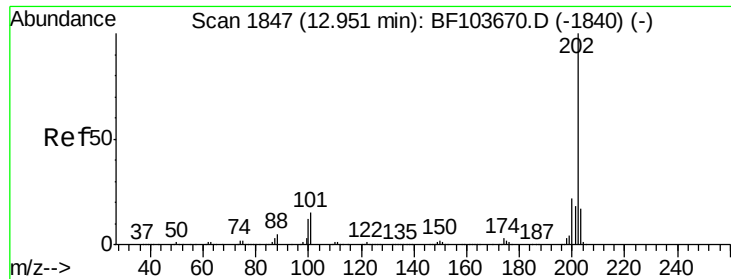
Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.9	9.5	14.3
236	25.6	20.7	31.1





#77

Pvrene

Concen: 28.288 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Instrument :

BNA_F

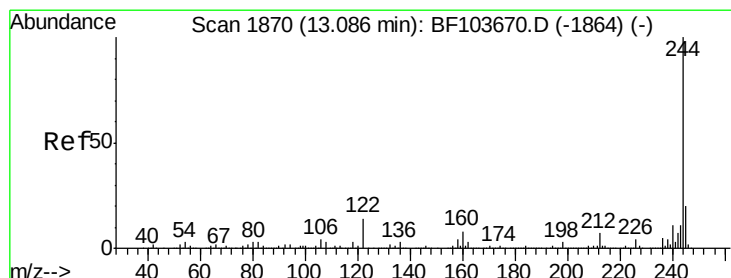
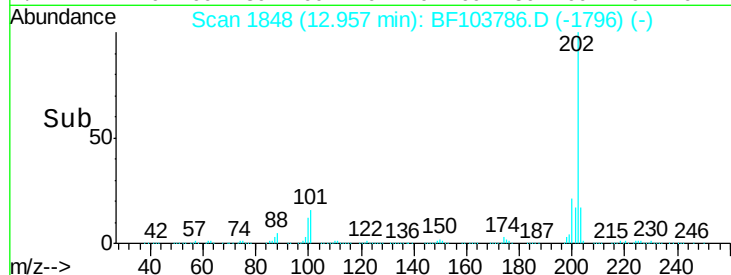
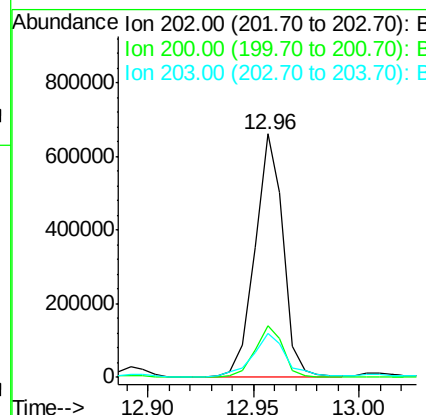
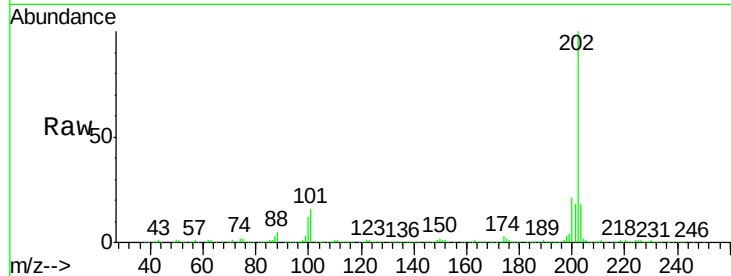
ClientSampleId :

SB-104(4-5)DL

Tot Ion:	202	Resp:	606032
Ion Ratio		Lower	Upper
202	100		
200	21.3	17.4	26.2
203	18.2	14.3	21.5

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#78

Terphenyl-d14

Concen: 2.240 ng

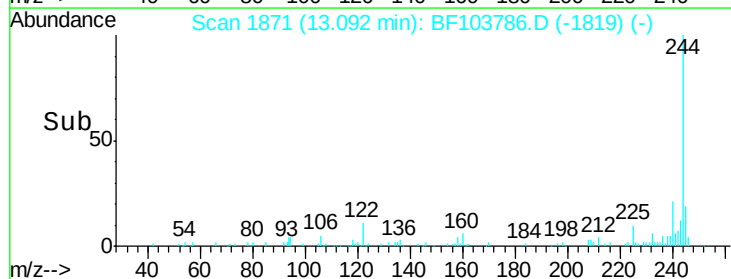
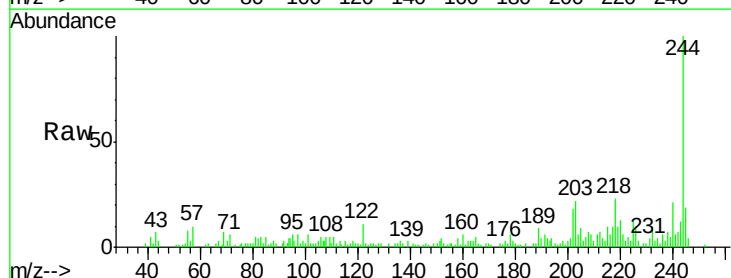
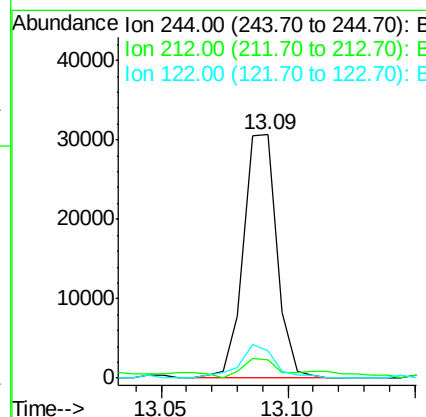
RT: 13.09 min Scan# 1871

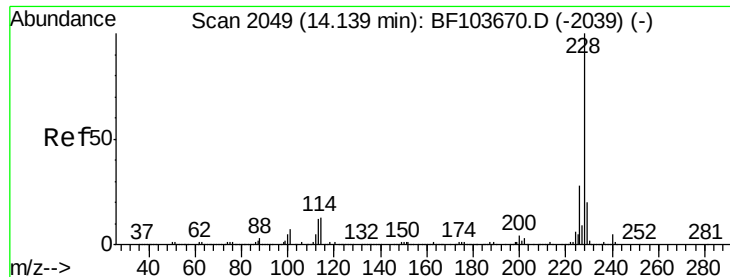
Delta R.T. 0.01 min

Lab File: BF103786.D

Acq: 20 Mar 2018 5:57

Tgt Ion:	244	Resp:	28155
Ion Ratio		Lower	Upper
244	100		
212	7.3	5.4	8.0
122	11.1	11.0	16.4





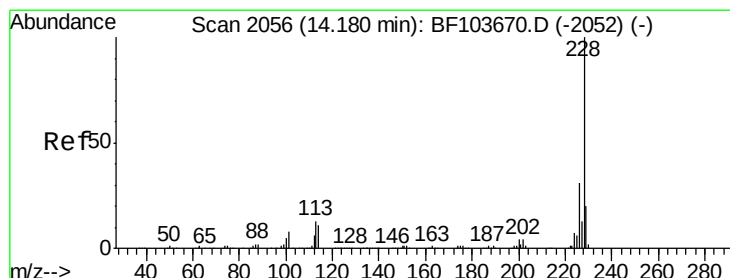
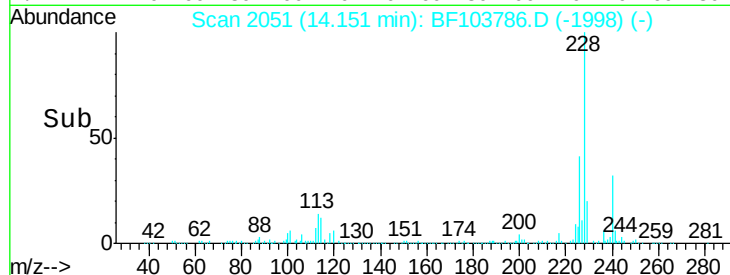
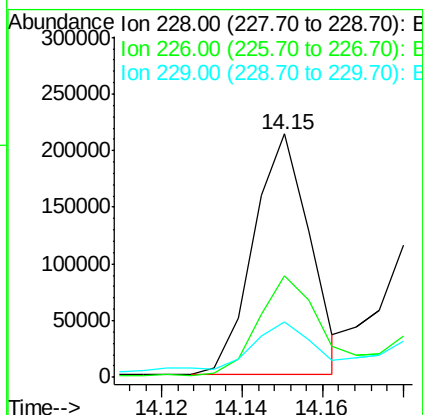
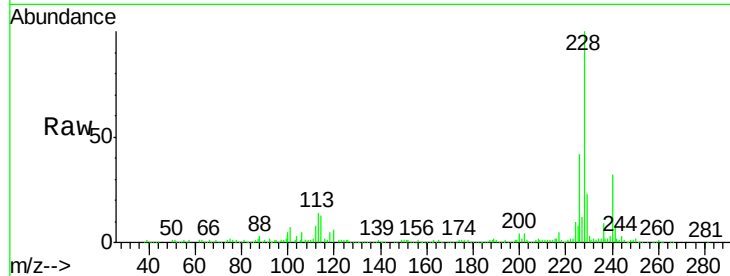
#80
Benzo(a)anthracene
Concen: 11.205 ng m
RT: 14.15 min Scan# 2051
Delta R.T. 0.01 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	206906		
226	41.6	22.6	33.8#	
229	22.8	15.8	23.6	

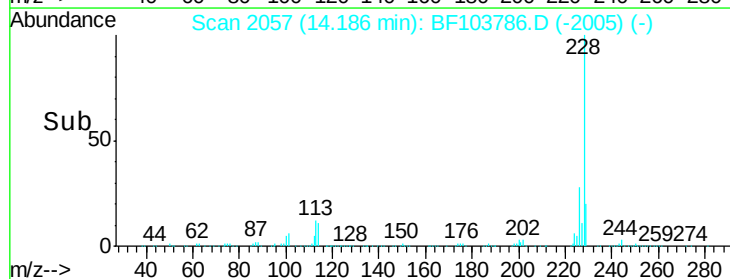
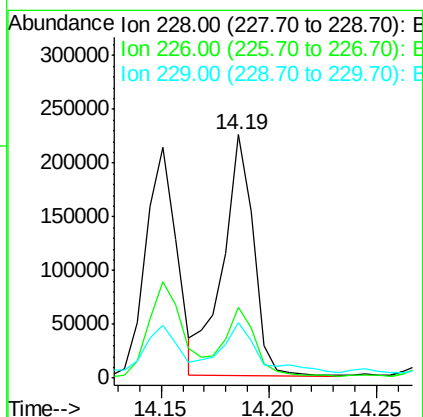
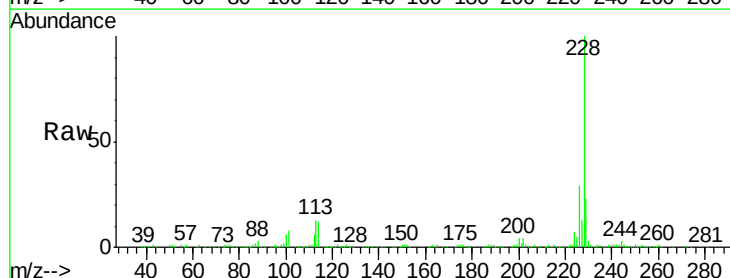
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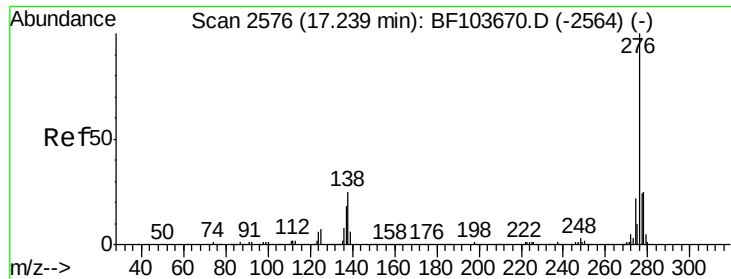
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#82
Chrysene
Concen: 12.592 ng m
RT: 14.19 min Scan# 2057
Delta R.T. 0.01 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	221655		
226	29.3	25.0	37.6	
229	22.7	16.2	24.4	





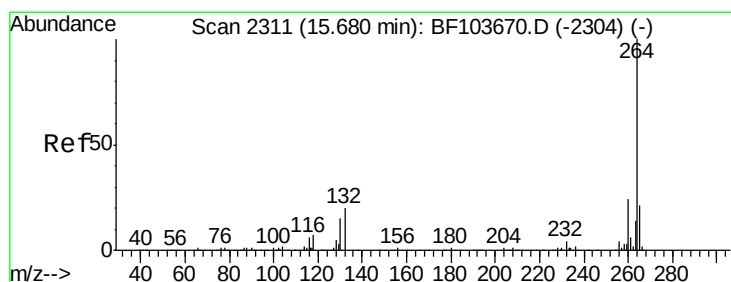
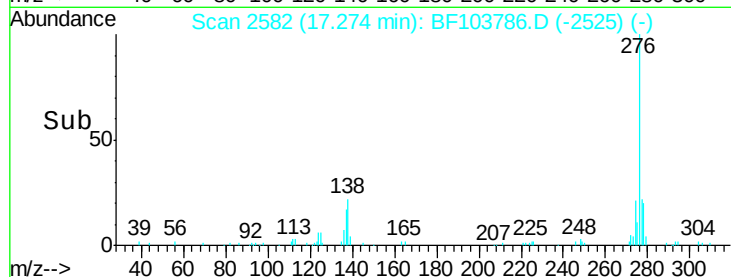
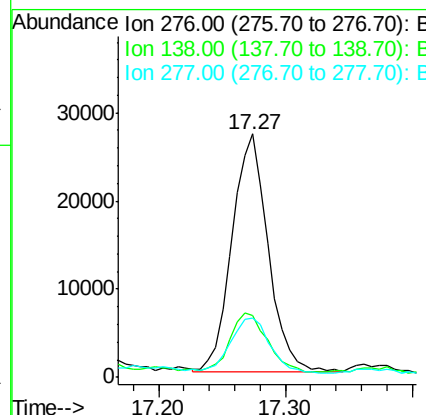
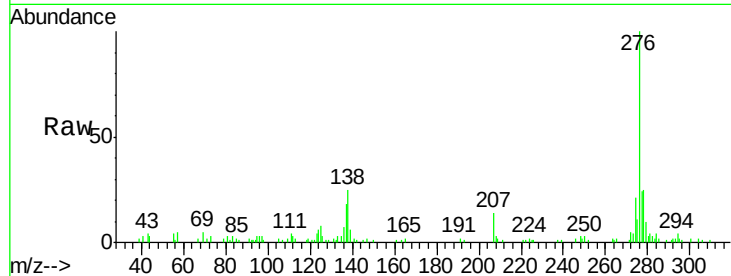
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.470 ng
RT: 17.27 min Scan# 2582
Delta R.T. 0.04 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.9	25.0	37.6
277	25.6	20.1	30.1

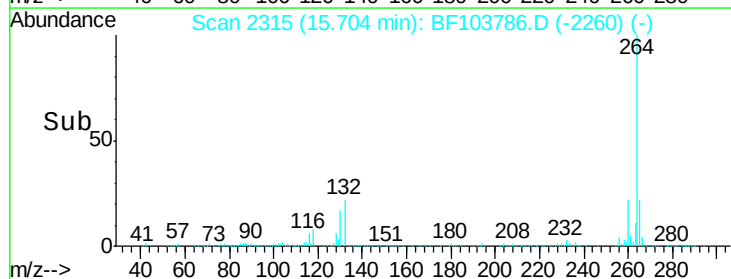
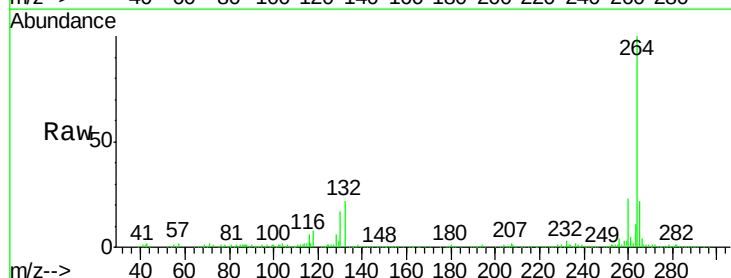
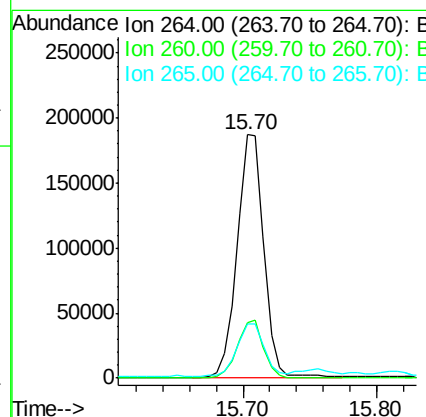
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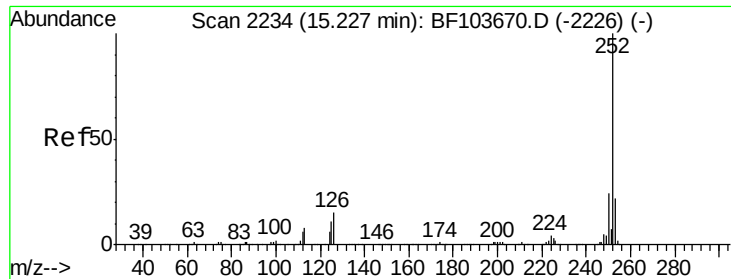
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.02 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.2	28.8
265	22.2	17.5	26.3





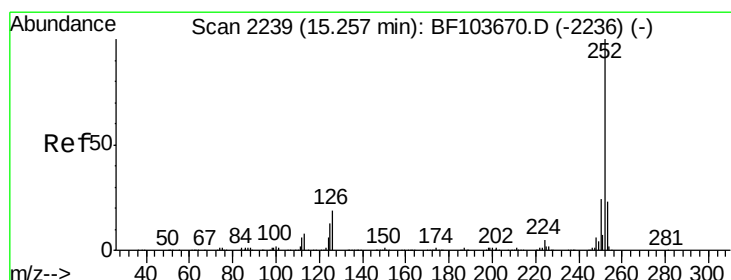
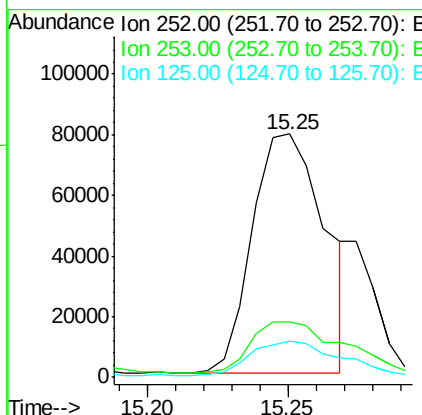
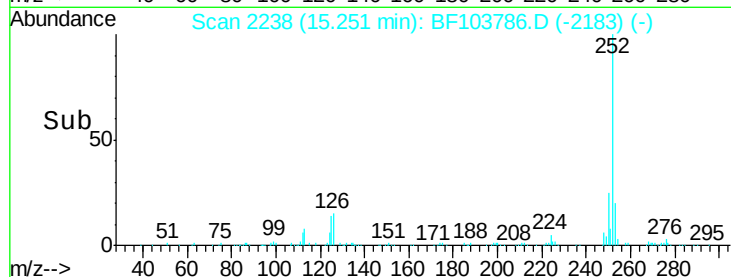
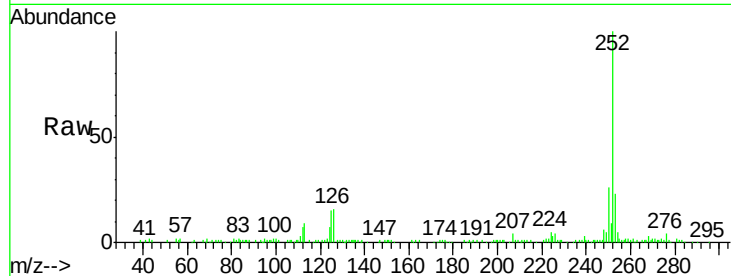
#87
Benzo(b)fluoranthene
Concen: 8.611 ng m
RT: 15.25 min Scan# 2238
Delta R.T. 0.02 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleID :
SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.8	9.0	13.6

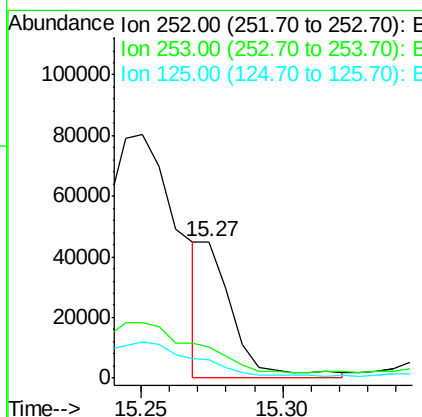
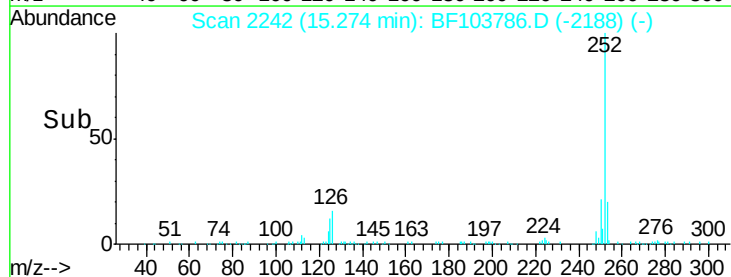
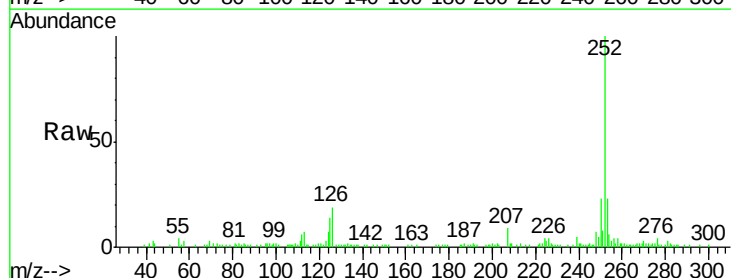
Manual Integrations
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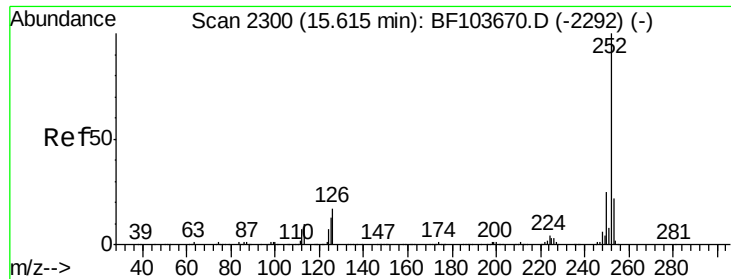
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#88
Benzo(k)fluoranthene
Concen: 2.238 ng m
RT: 15.27 min Scan# 2242
Delta R.T. 0.02 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	13.8	10.2	15.2





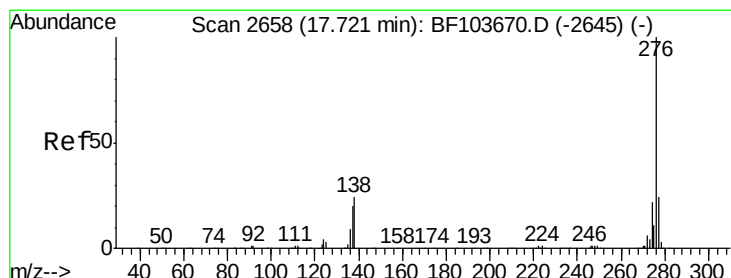
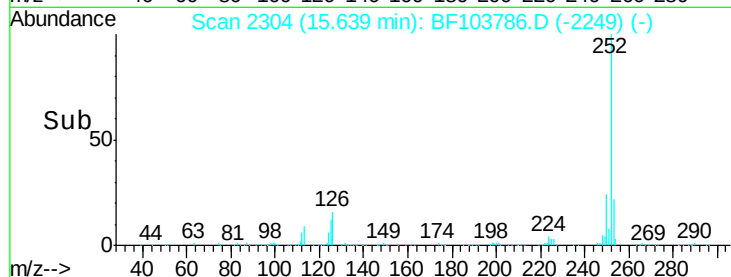
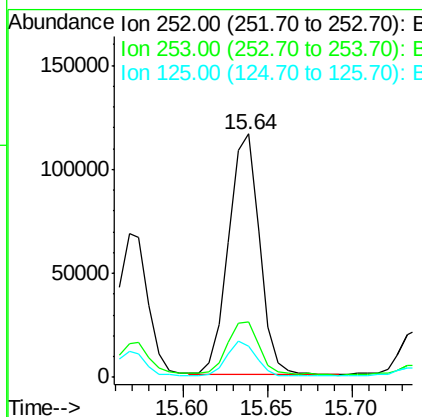
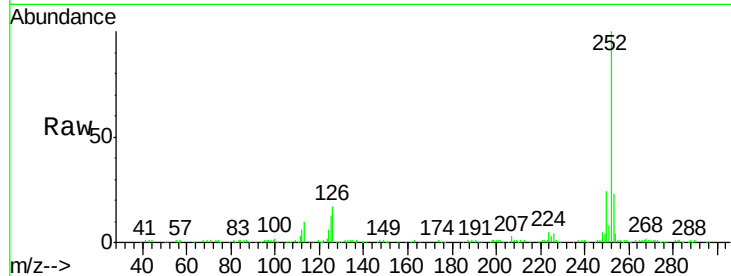
#89
Benzo(a)pyrene
Concen: 9.927 ng
RT: 15.64 min Scan# 2304
Delta R.T. 0.02 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Instrument :
BNA_F
ClientSampleId :
SB-104(4-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	12.6	9.8	14.6

Manual Integrations
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3/20/2018 6:27:46 PM



#91
Benzo(g,h,i)perylene
Concen: 4.730 ng
RT: 17.75 min Scan# 2663
Delta R.T. 0.03 min
Lab File: BF103786.D
Acq: 20 Mar 2018 5:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	26.5	21.8	32.8

