

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103957.D
 Acq On : 27 Mar 2018 6:23
 Operator : JU/SJ
 Sample : J1996-02DL 25X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB43 SE 4DL

Manual Integrations
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 3/27/2018 2:16:10 PM

Quant Time: Mar 27 08:55:50 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	142104	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	568830	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	255171	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	415626	20.00	ng	0.00
75) Chrysene-d12	14.16	240	279213	20.00	ng	0.00
86) Perylene-d12	15.71	264	259466	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	45768	4.90	ng	0.00
7) Phenol-d6	6.59	99	60853	5.32	ng	-0.01
23) Nitrobenzene-d5	7.53	82	36049	4.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	11269	5.14	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	73903	4.62	ng	0.00
78) Terphenyl-d14	13.09	244	58375	4.85	ng	0.00
Target Compounds						
31) Naphthalene	8.27	128	215293	7.493	ng	99
37) 2-Methylnaphthalene	8.97	142	72490	3.978	ng	98
48) Acenaphthylene	9.87	152	156378	5.967	ng	100
54) Dibenzofuran	10.22	168	126512	5.693	ng	98
57) Fluorene	10.56	166	186296	10.803	ng	99
70) Phenanthrene	11.53	178	992364	43.648	ng	99
71) Anthracene	11.59	178	256222	11.096	ng	98
72) Carbazole	11.74	167	89031	3.967	ng	98
74) Fluoranthene	12.73	202	969668	41.398	ng	98
77) Pyrene	12.96	202	871776	42.515	ng	99
80) Benzo(a)anthracene	14.15	228	399485m	22.603	ng	
82) Chrysene	14.19	228	351352	20.854	ng	98
85) Indeno(1,2,3-cd)pyrene	17.29	276	171268	11.640	ng	# 93
87) Benzo(b)fluoranthene	15.25	252	411025m	25.074	ng	
88) Benzo(k)fluoranthene	15.27	252	129794m	8.237	ng	
89) Benzo(a)pyrene	15.64	252	290063	19.509	ng	95
90) Dibenzo(a,h)anthracene	17.30	278	41991	3.262	ng	96
91) Benzo(g,h,i)perylene	17.77	276	161838	12.922	ng	96

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

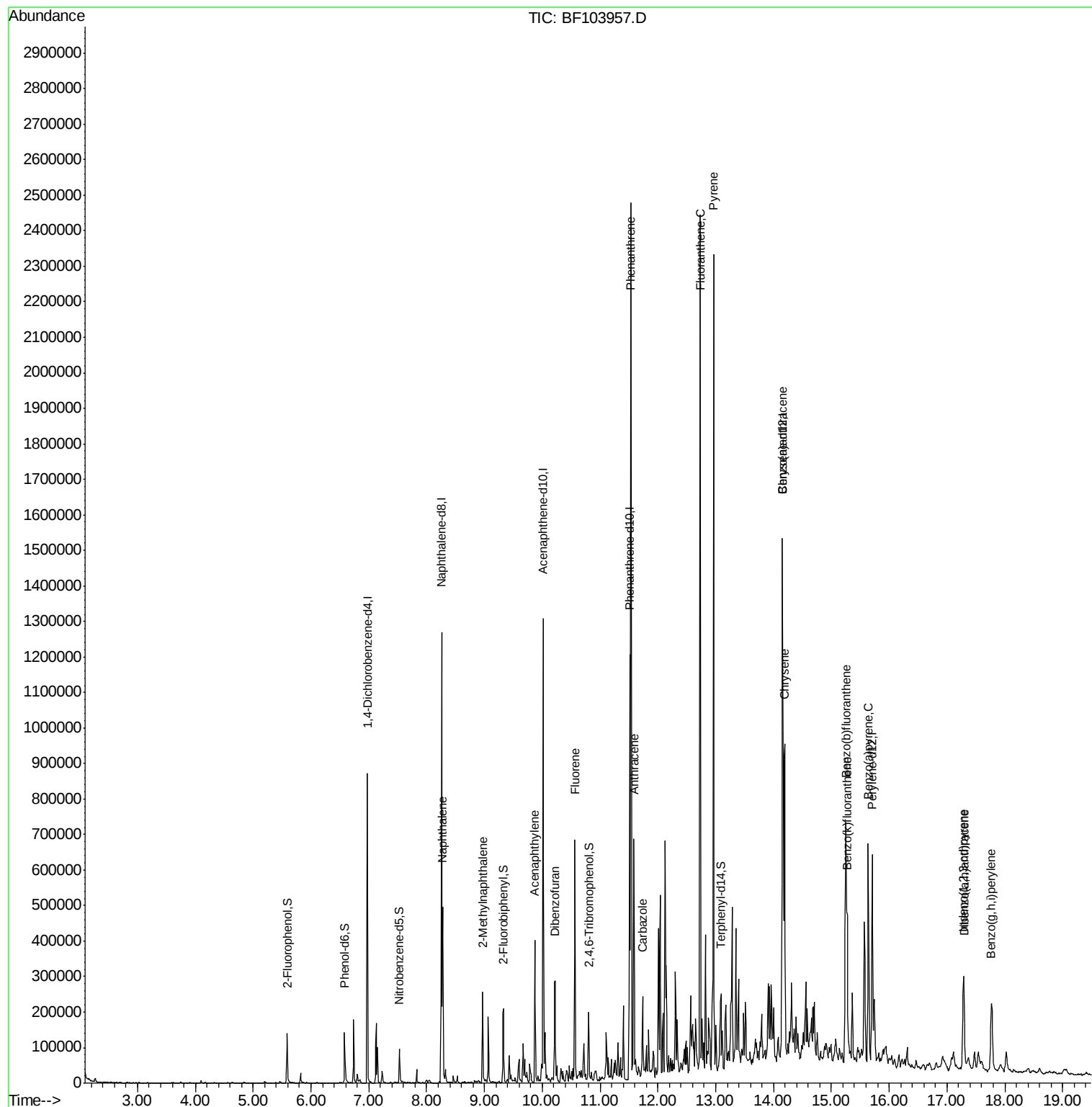
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
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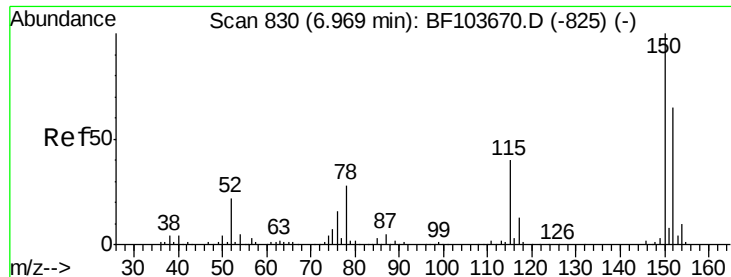
Instrument :
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#1

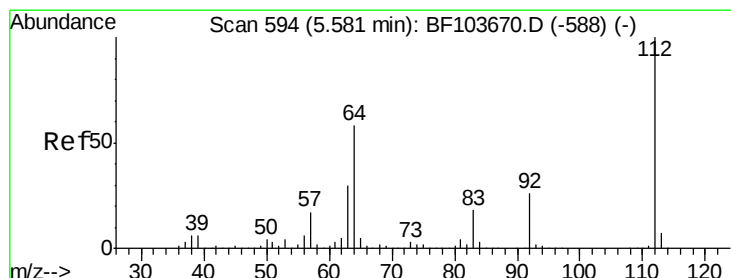
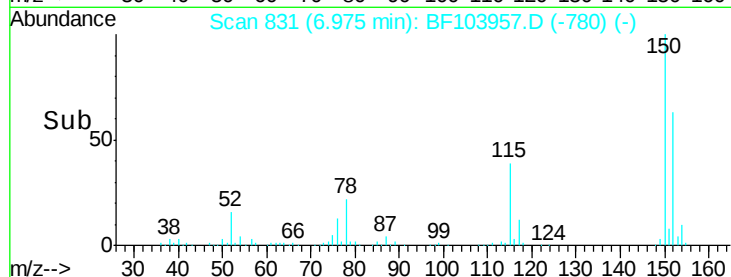
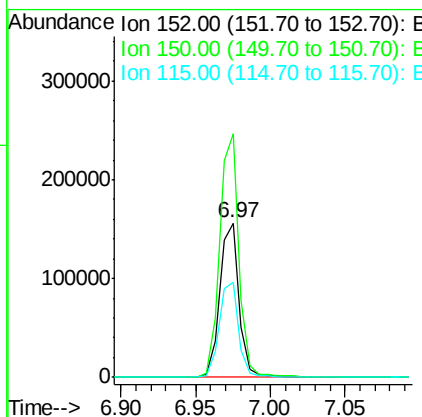
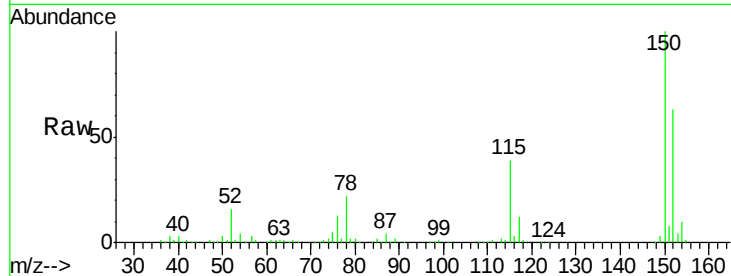
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	124.6	186.8
115	61.6	50.1	75.1

Manual Integrations
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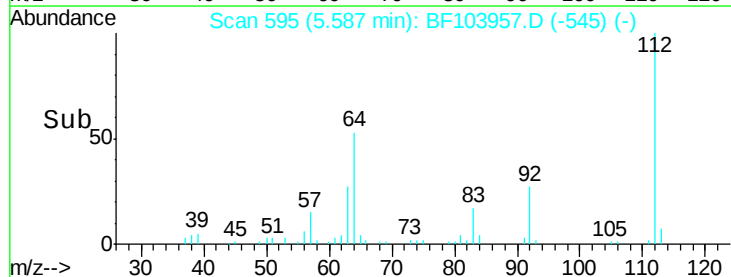
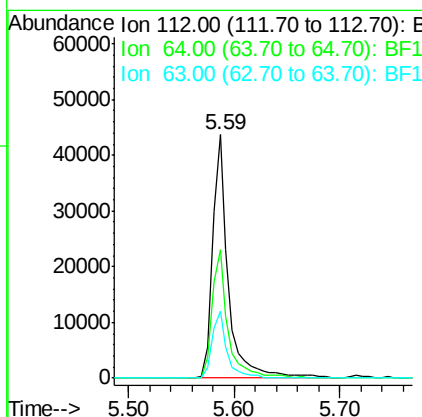
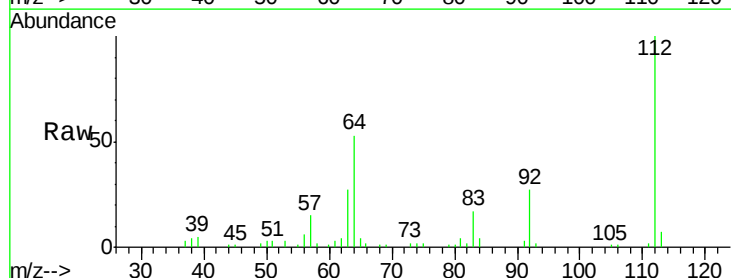
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#5

2-Fluorophenol
Concen: 4.899 ng
RT: 5.59 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.8	47.9	71.9
63	27.3	23.7	35.5





#7

Phenol-d6

Concen: 5.324 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Instrument :

BNA_F

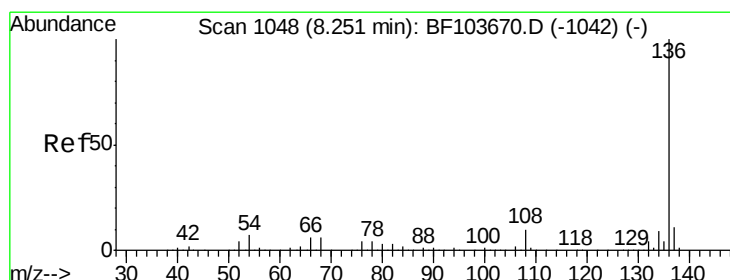
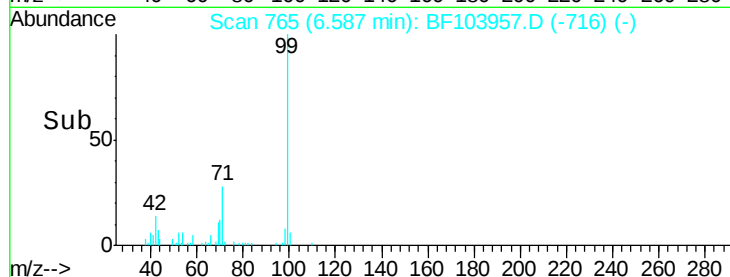
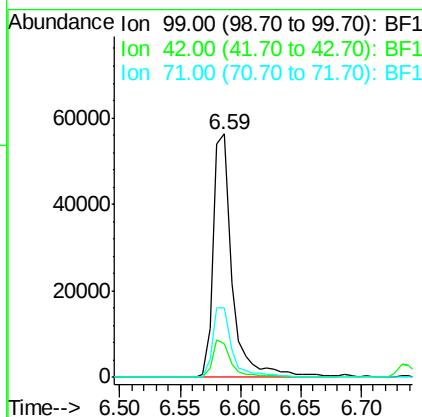
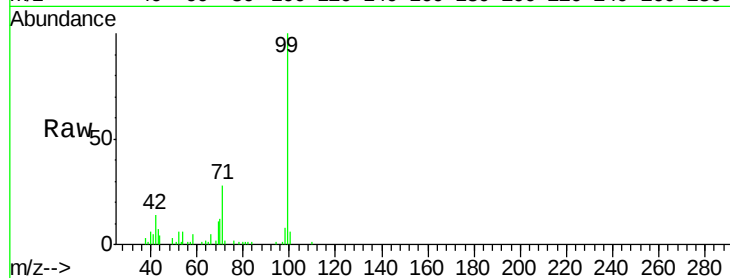
ClientSampleId :

A2_SB43_SE_4DL

Tot Ion:	99	Resp:	60853
Ion Ratio	Lower	Upper	
99	100		
42	13.9	14.5	21.7#
71	28.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

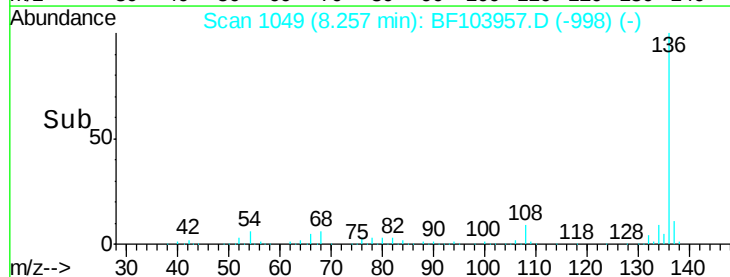
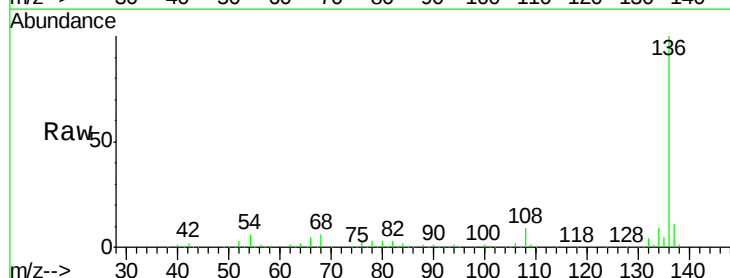
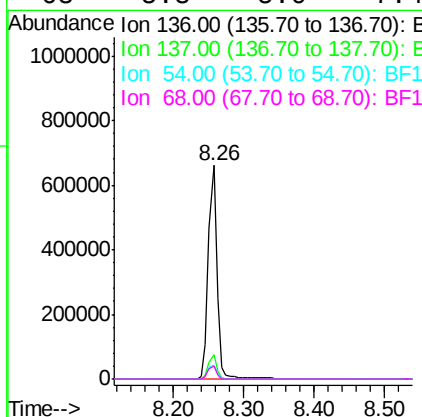
RT: 8.26 min Scan# 1049

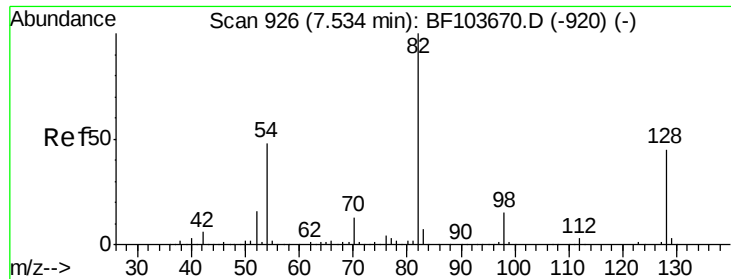
Delta R.T. -0.00 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Tgt Ion:	136	Resp:	568830
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	6.5	6.6	9.8#
68	5.8	5.0	7.4





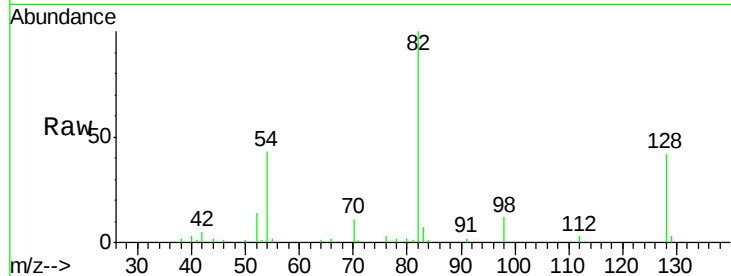
#23
Nitrobenzene-d5
Concen: 4.419 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

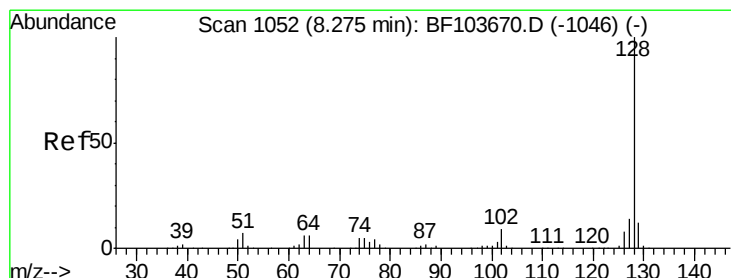
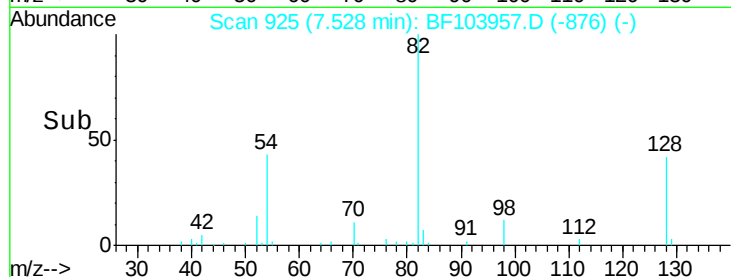
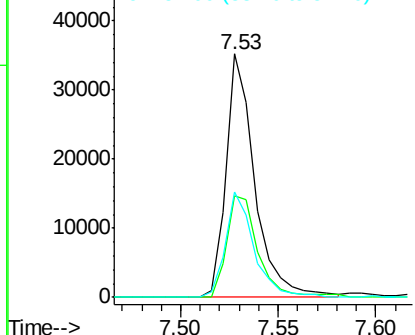
Tot Ion	Ratio	Lower	Upper
82	100		
128	41.9	36.1	54.1
54	43.3	41.4	62.2

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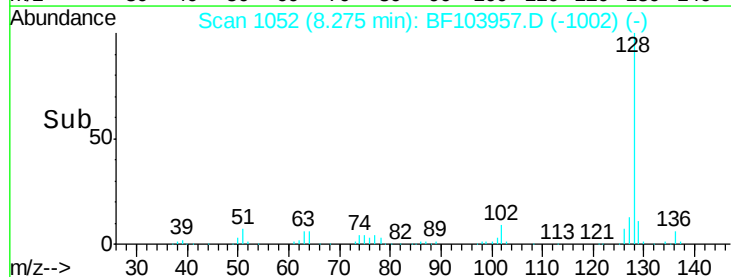
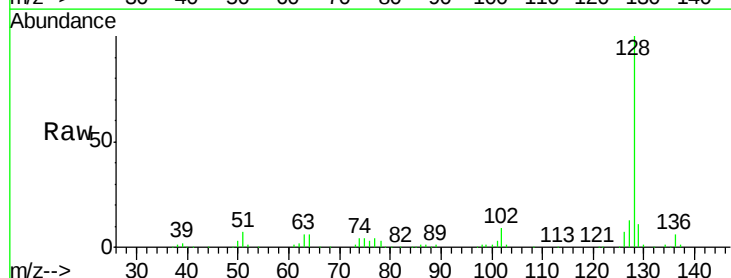
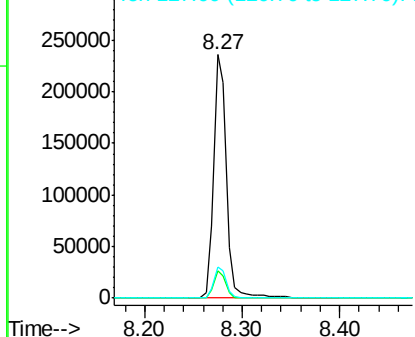
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

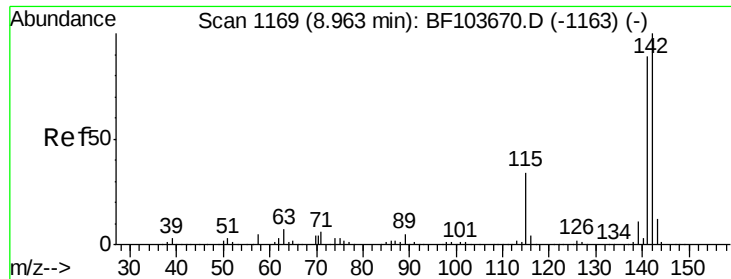


#31
Naphthalene
Concen: 7.493 ng
RT: 8.27 min Scan# 1052
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.9	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





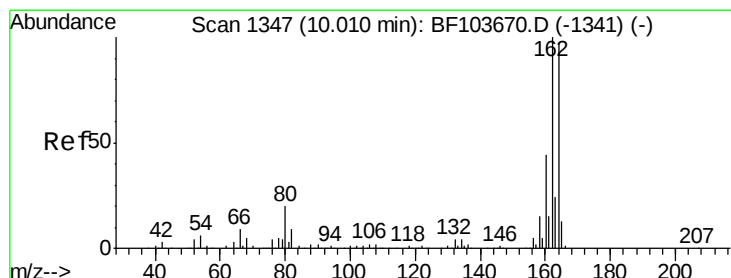
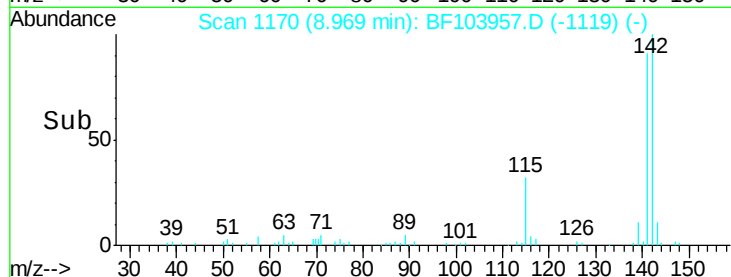
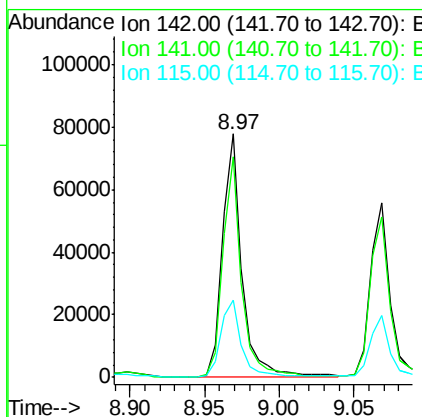
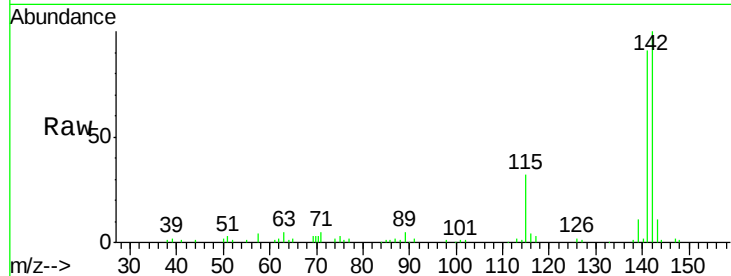
#37
2-Methylnaphthalene
Concen: 3.978 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	31.7	26.1	39.1

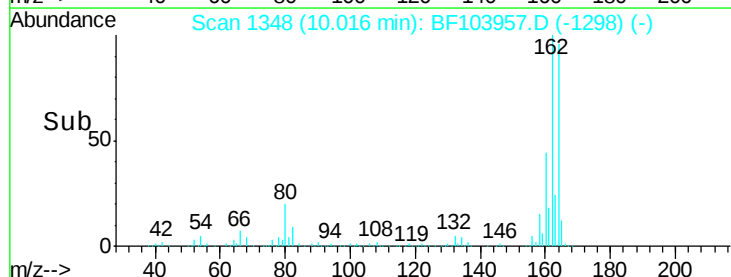
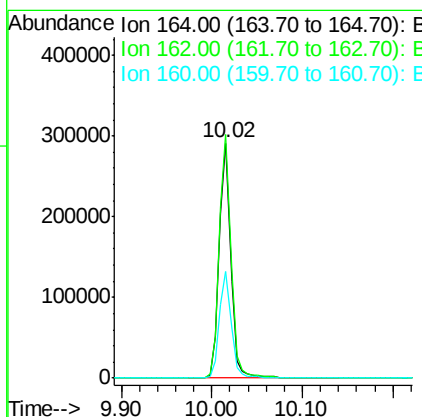
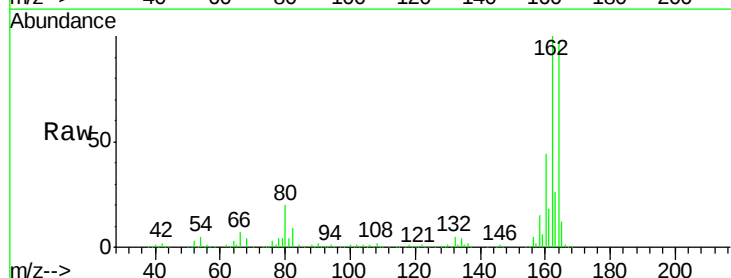
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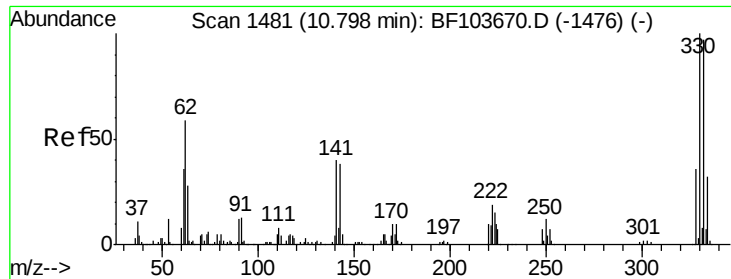
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	86.1	129.1
160	45.6	38.3	57.5





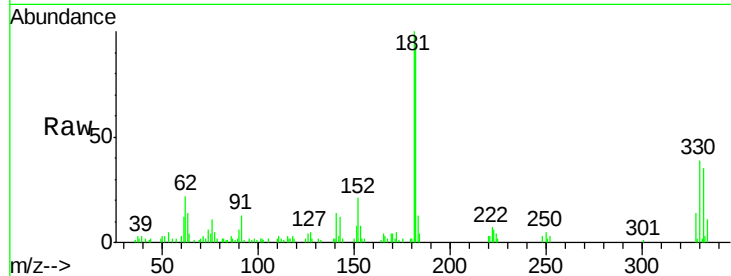
#41
 2,4,6-Tribromophenol
 Concen: 5.136 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	11269		
332	94.1	77.0	115.6	
141	44.5	29.9	44.9	

Manual Integrations
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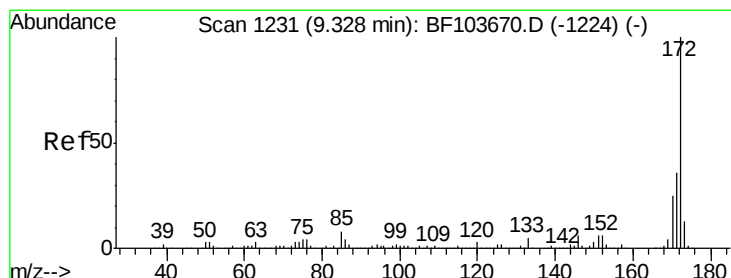
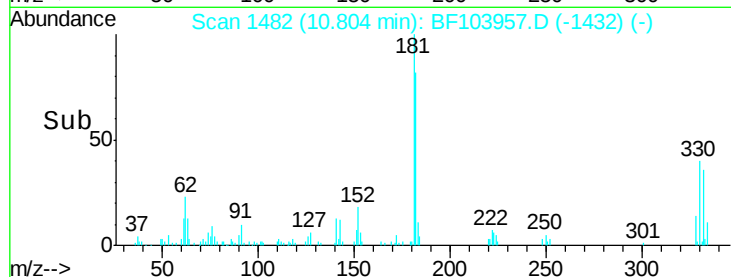
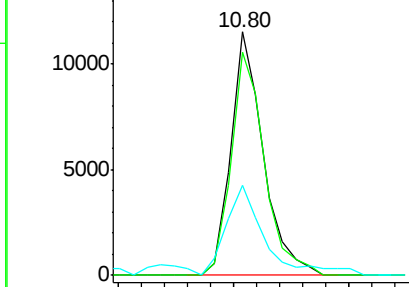


Abundance

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: 4.620 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

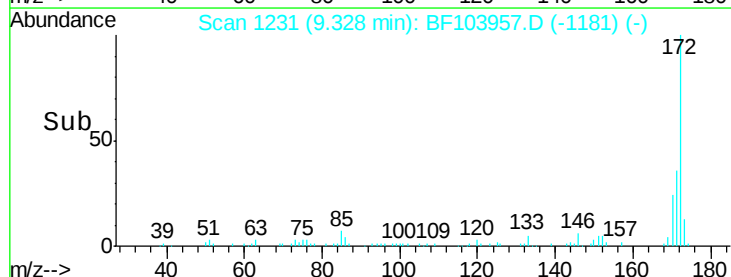
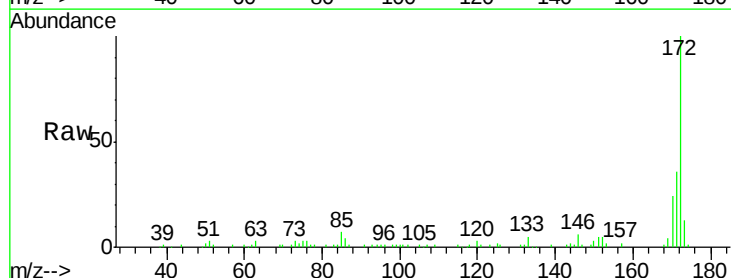
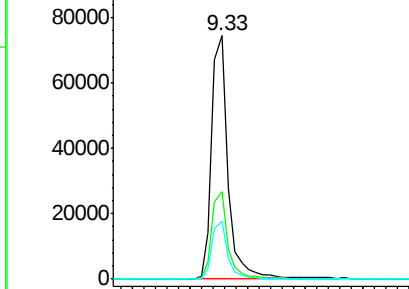
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	73903		
171	35.7	29.7	44.5	
170	23.9	19.6	29.4	

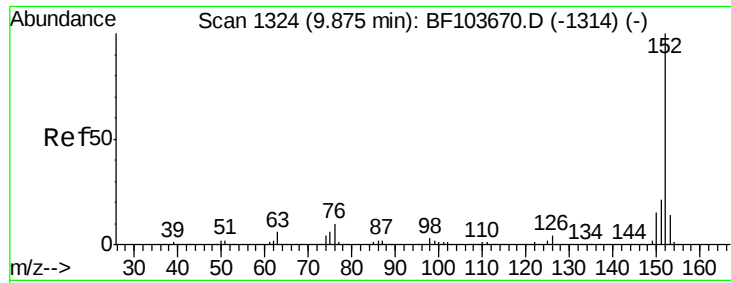
Abundance

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





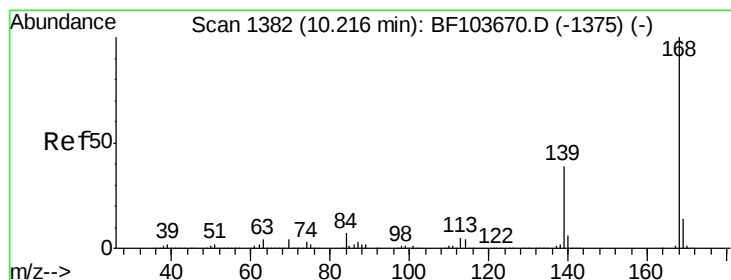
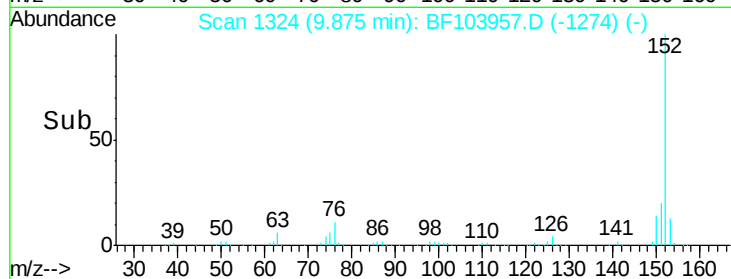
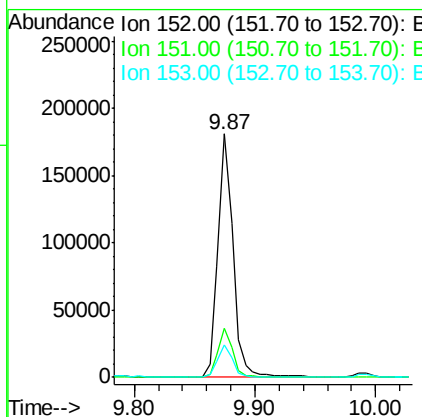
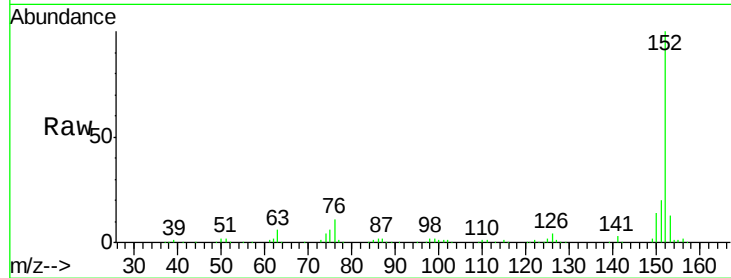
#48
Acenaphthylene
Concen: 5.967 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	13.5	10.7	16.1

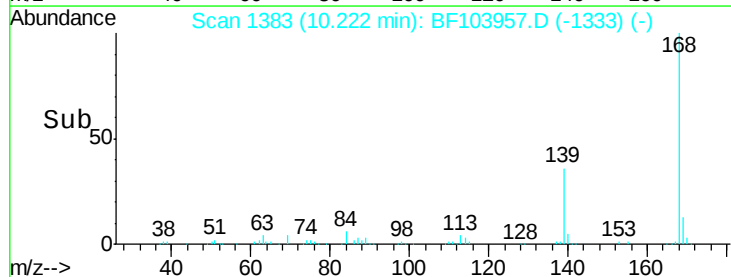
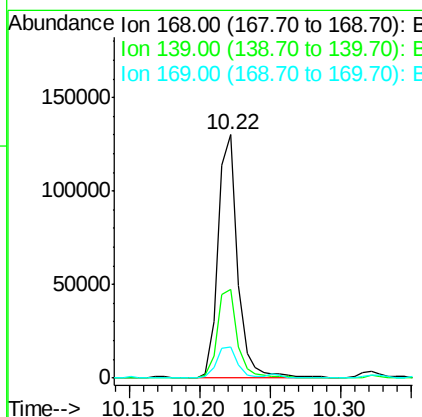
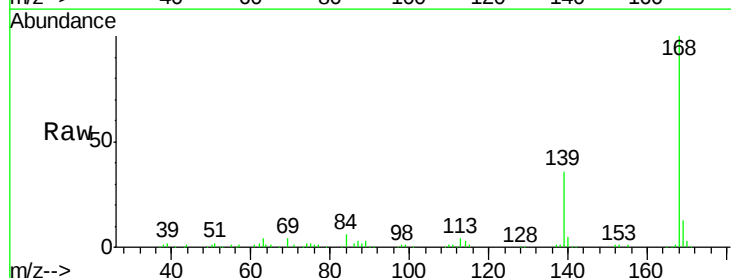
Manual Integrations
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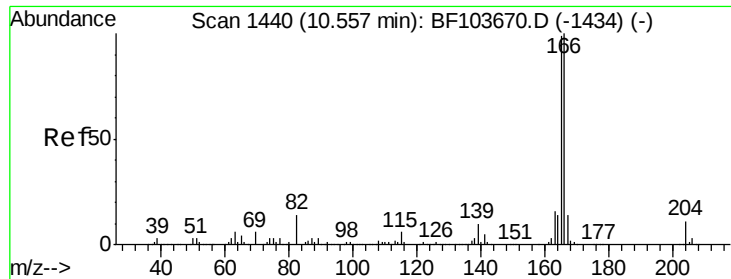
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#54
Dibenzofuran
Concen: 5.693 ng
RT: 10.22 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.1	45.1
169	12.7	10.9	16.3





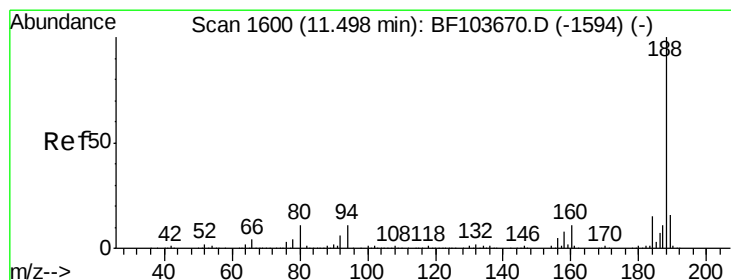
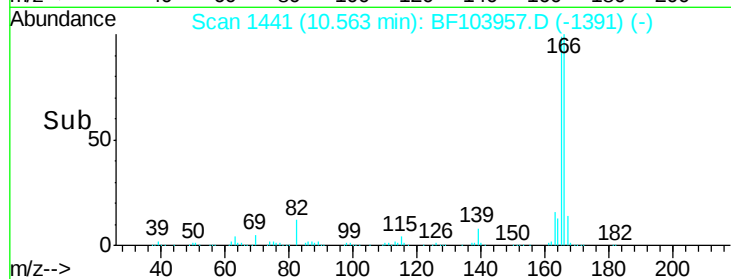
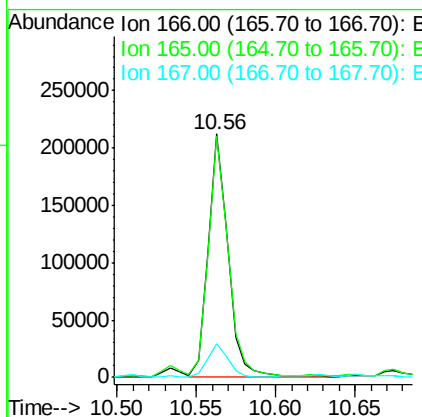
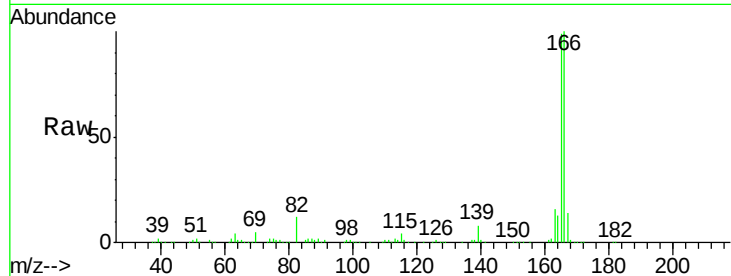
#57
Fluorene
 Concen: 10.803 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.8
167	13.8	10.6	16.0

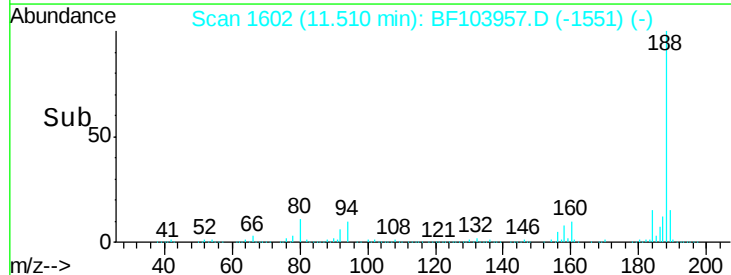
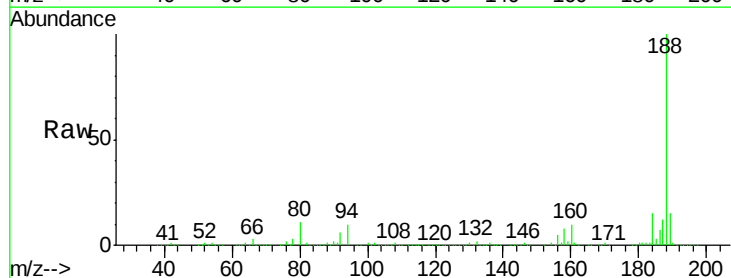
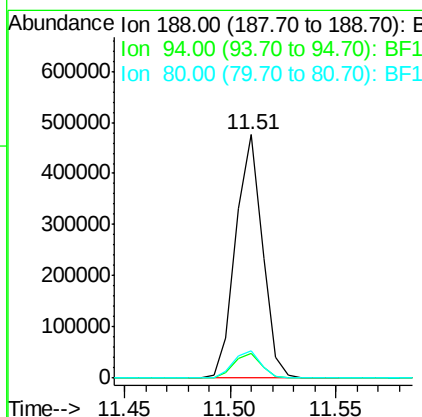
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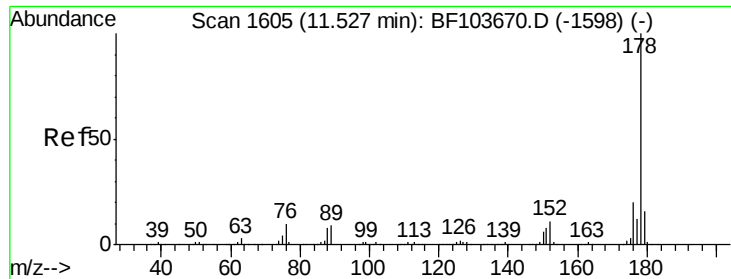
Sohil
 3/27/2018 2:16:10 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1602
 Delta R.T. -0.00 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.5	12.7
80	11.2	9.2	13.8





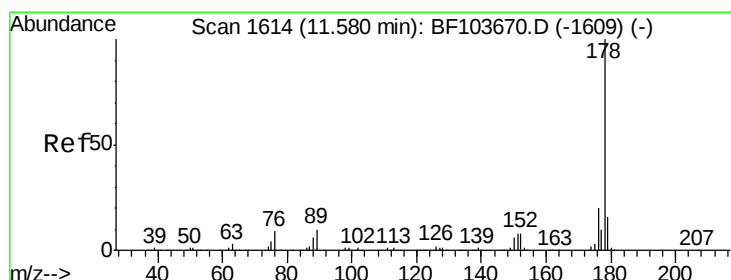
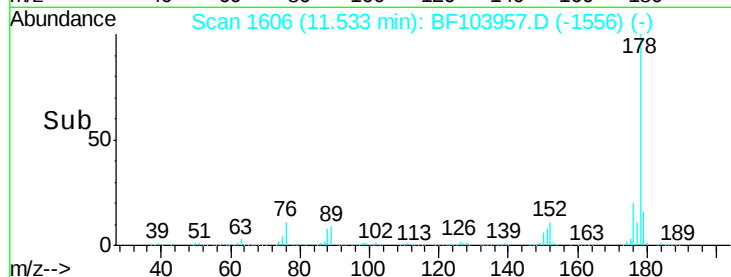
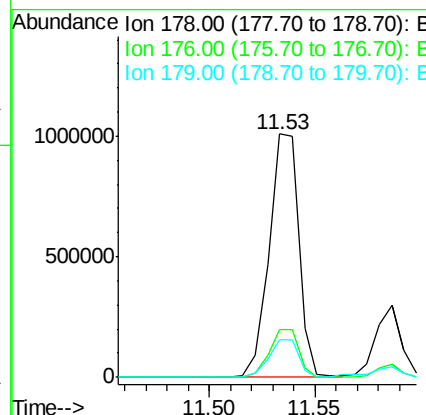
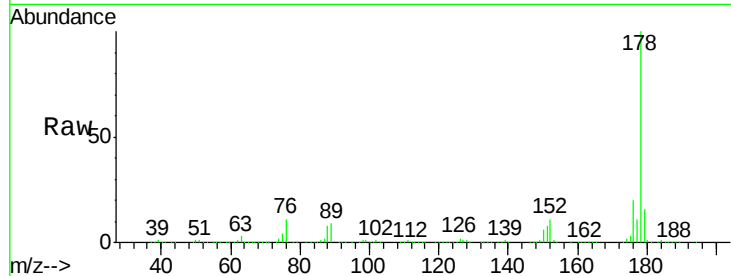
#70
Phenanthrene
Concen: 43.648 ng
RT: 11.53 min Scan# 1606
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.6	13.0	19.6

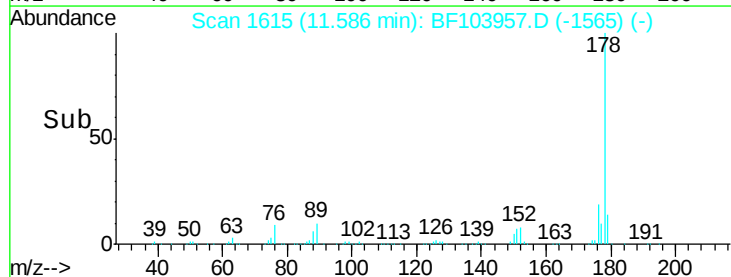
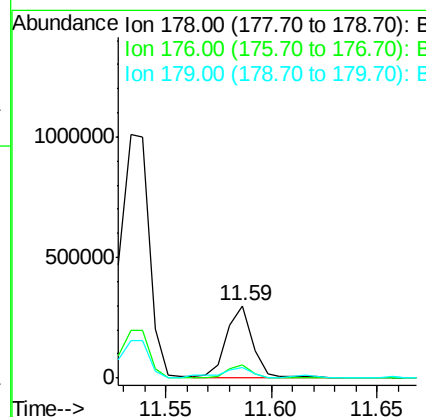
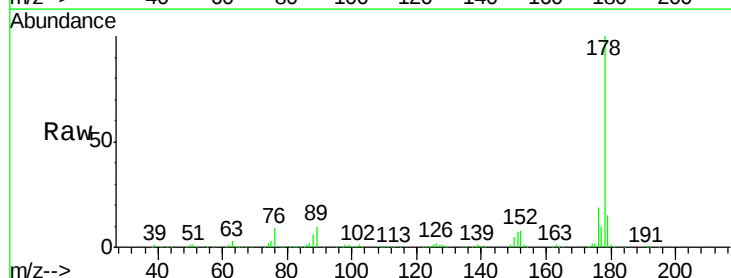
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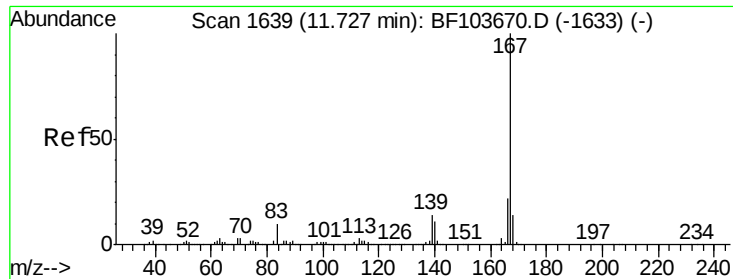
Sohil
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#71
Anthracene
Concen: 11.096 ng
RT: 11.59 min Scan# 1615
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.7	12.6	19.0





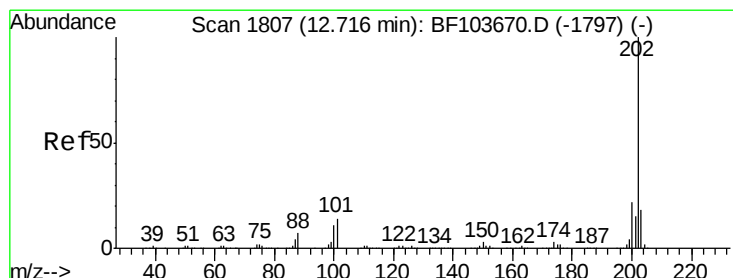
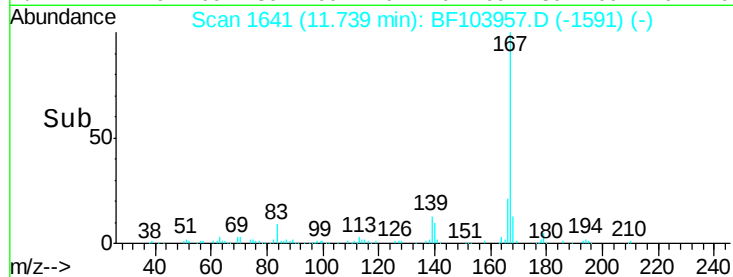
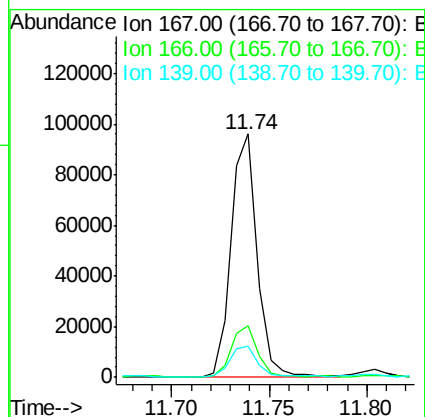
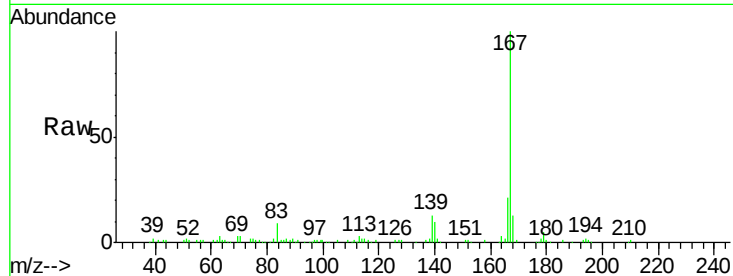
#72
 Carbazole
 Concen: 3.967 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	12.6	10.9	16.3

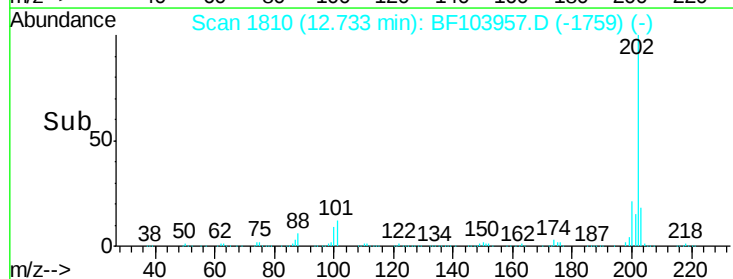
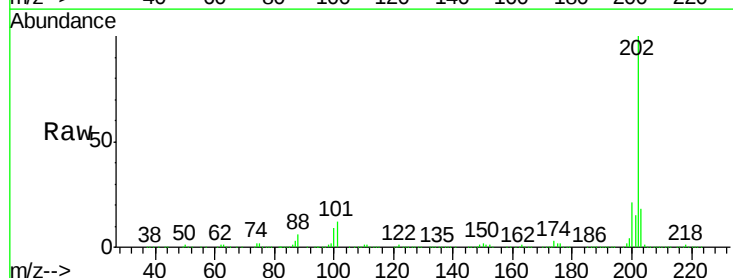
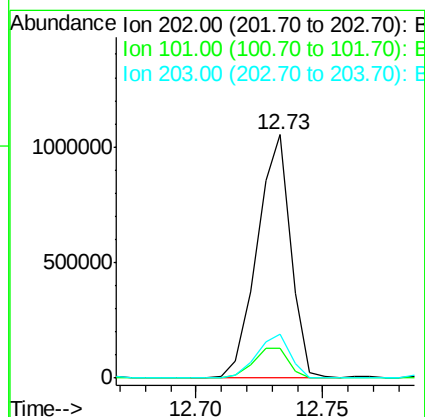
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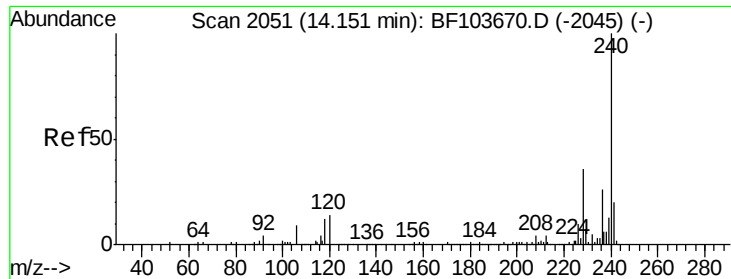
Sohil
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#74
 Fluoranthene
 Concen: 41.398 ng
 RT: 12.73 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	34.1
203	17.9	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: BF103957.D

Acq: 27 Mar 2018 6:23

Instrument :

BNA_F

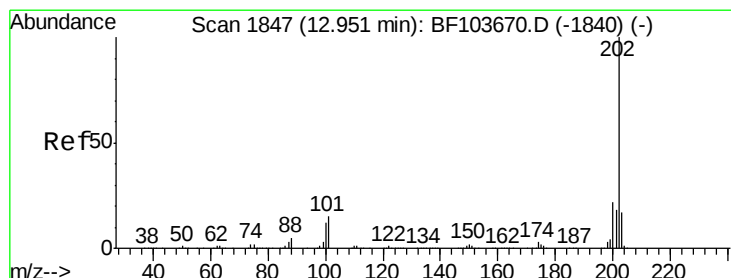
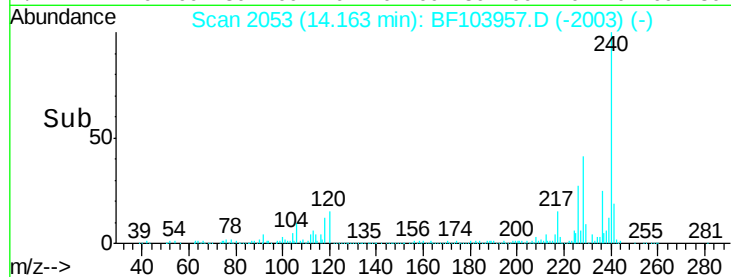
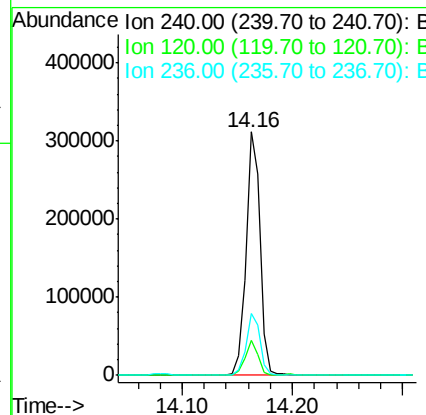
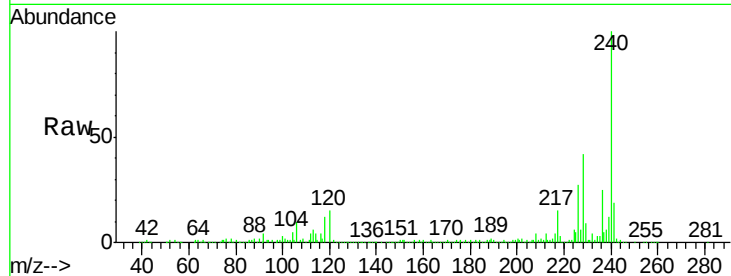
ClientSampleId :

A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.6	9.5	14.3
236	25.5	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 42.515 ng

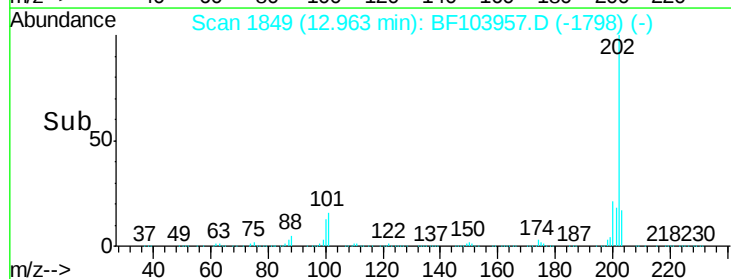
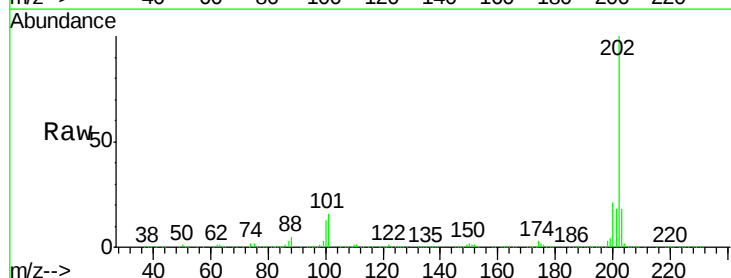
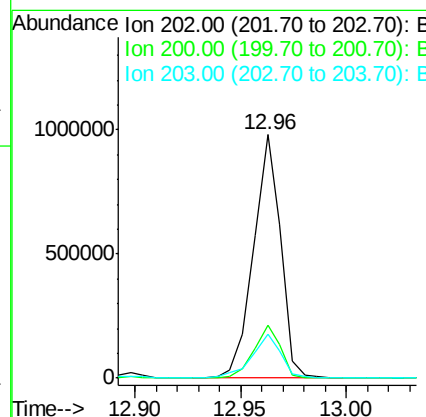
RT: 12.96 min Scan# 1849

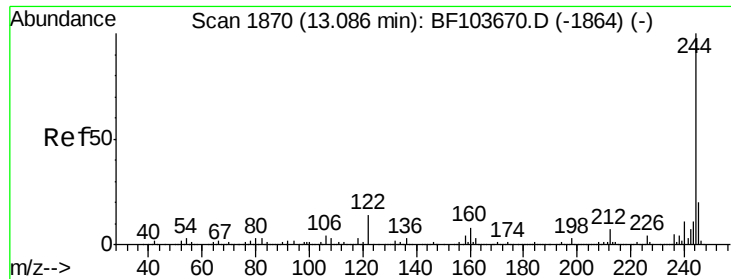
Delta R.T. -0.00 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	18.0	14.3	21.5





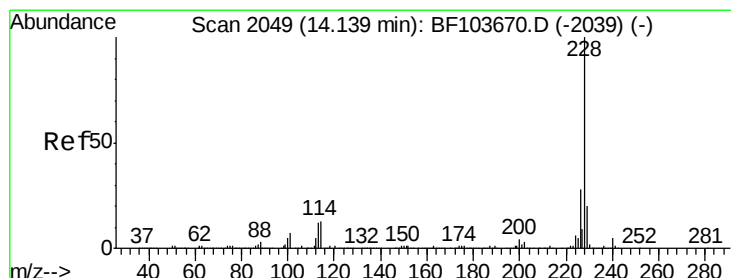
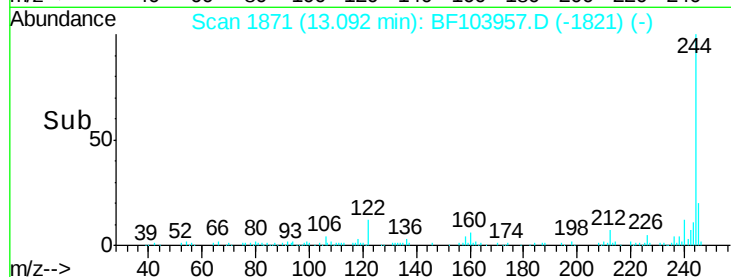
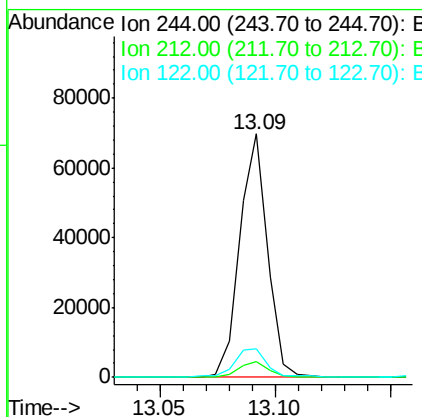
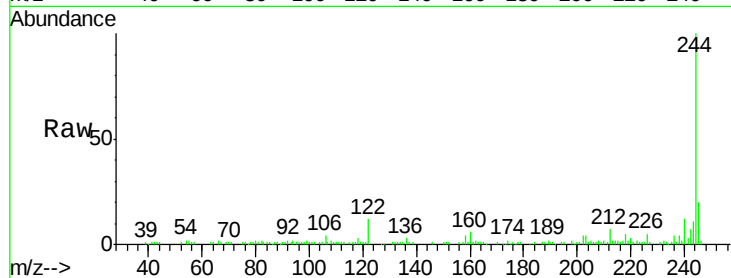
#78
 Terphenyl-d14
 Concen: 4.853 ng
 RT: 13.09 min Scan# 1871
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	11.8	11.0	16.4

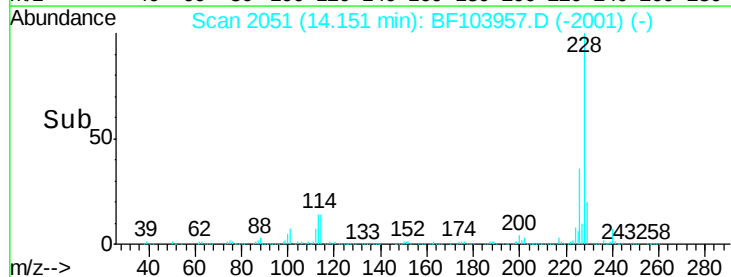
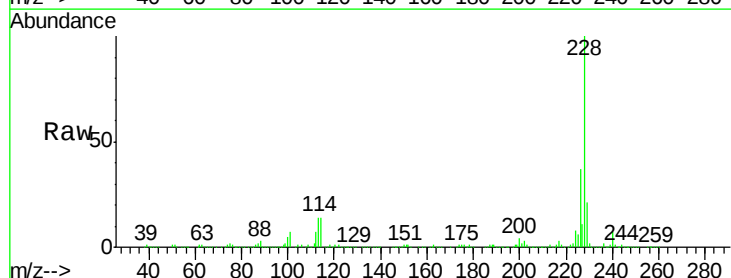
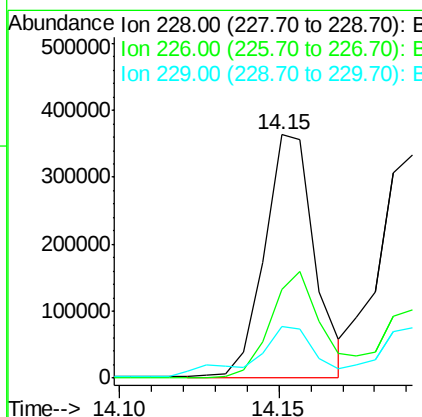
Manual Integrations
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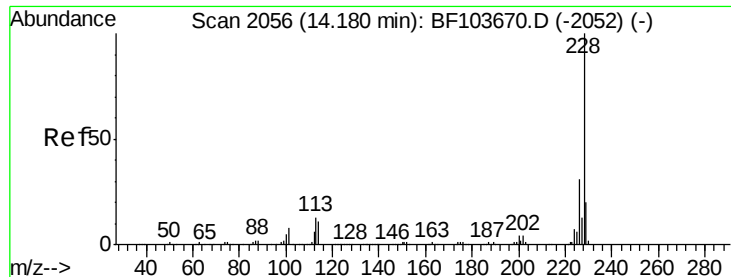
Sohil
 3/27/2018 2:16:10 PM



#80
 Benzo(a)anthracene
 Concen: 22.603 ng m
 RT: 14.15 min Scan# 2051
 Delta R.T. -0.01 min
 Lab File: BF103957.D
 Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.7	22.6	33.8#
229	21.1	15.8	23.6





#82

Chrysene

Concen: 20.854 ng

RT: 14.19 min Scan# 2058

Delta R.T. -0.01 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Instrument :

BNA_F

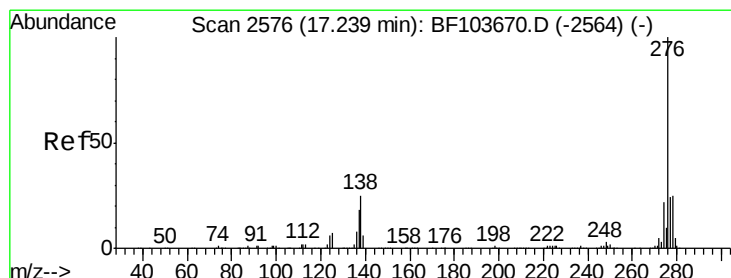
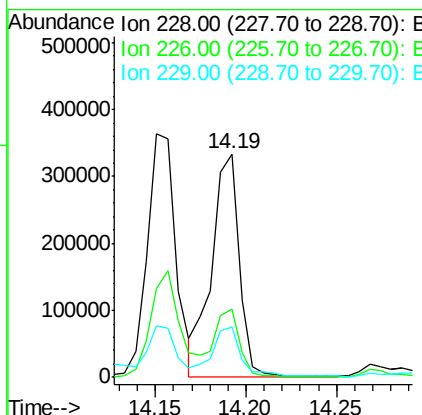
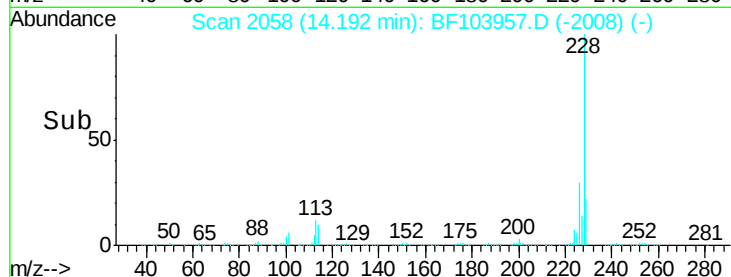
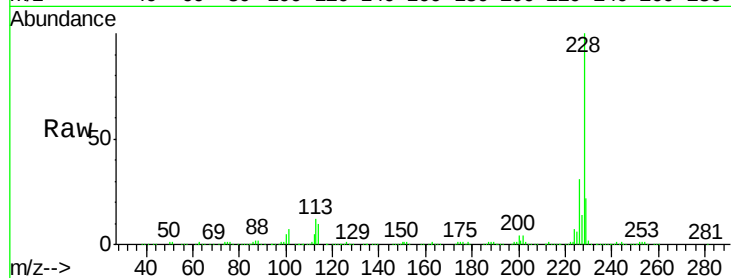
ClientSampleId :

A2 SB43 SE 4DL

Tot Ion:	228	Resp:	351352
Ion Ratio		Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.4	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 11.640 ng

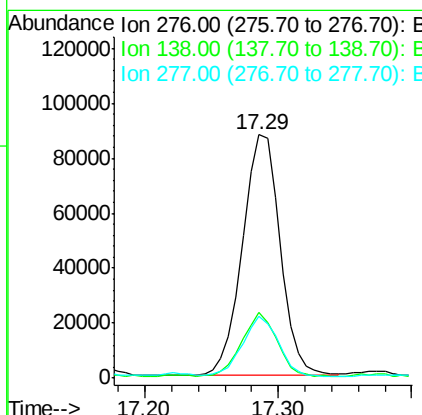
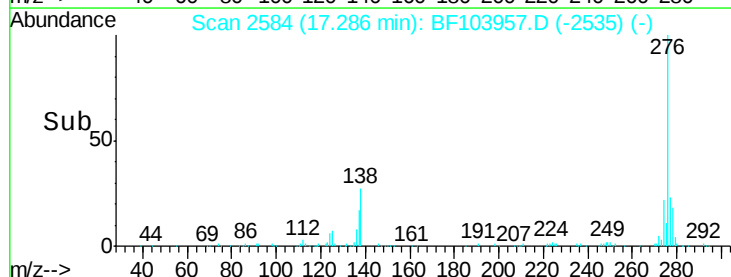
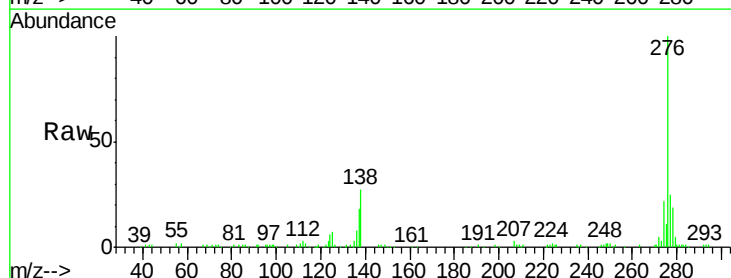
RT: 17.29 min Scan# 2584

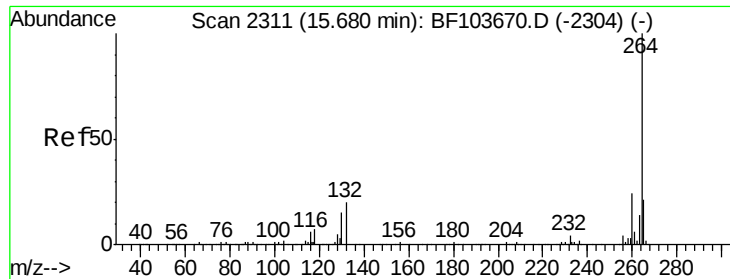
Delta R.T. -0.01 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Tgt Ion:	276	Resp:	171268
Ion Ratio		Lower	Upper
276	100		
138	25.0	25.0	37.6#
277	24.0	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.71 min Scan# 2316

Delta R.T. -0.00 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Instrument :

BNA_F

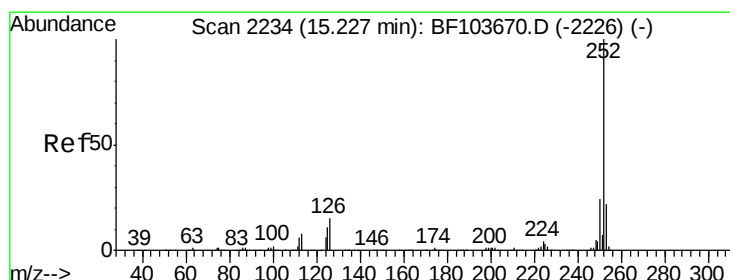
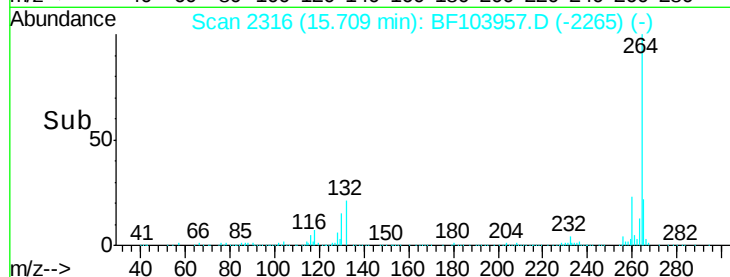
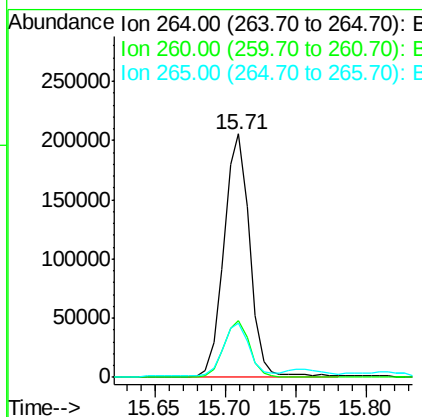
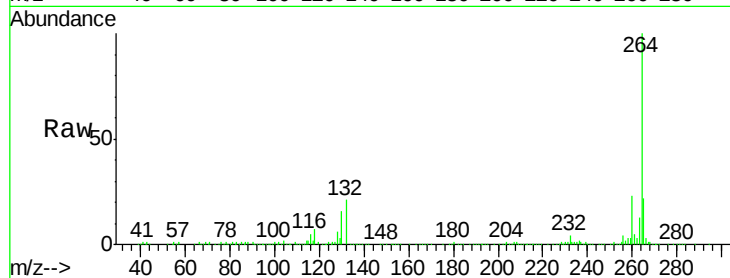
ClientSampleId :

A2 SB43 SE 4DL

Tot Ion:	264	Resp:	259466
Ion Ratio		Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.3	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 25.074 ng m

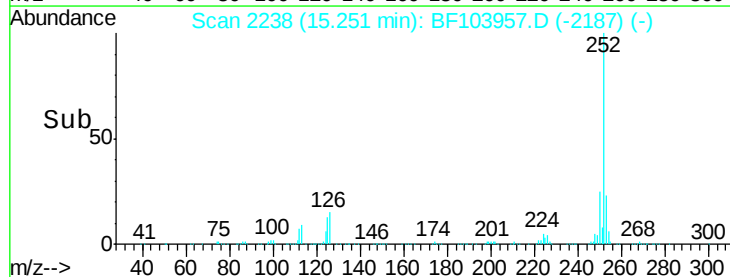
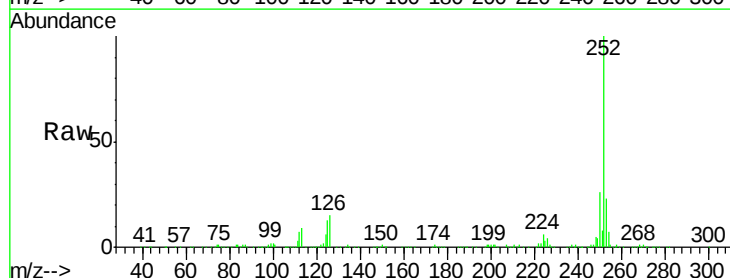
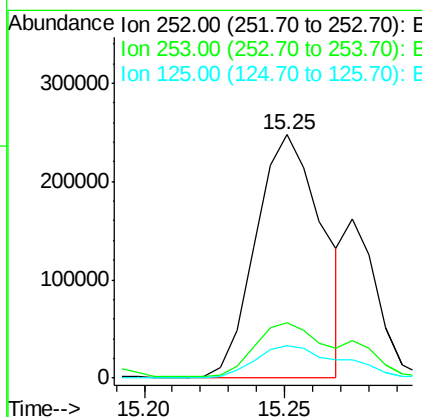
RT: 15.25 min Scan# 2238

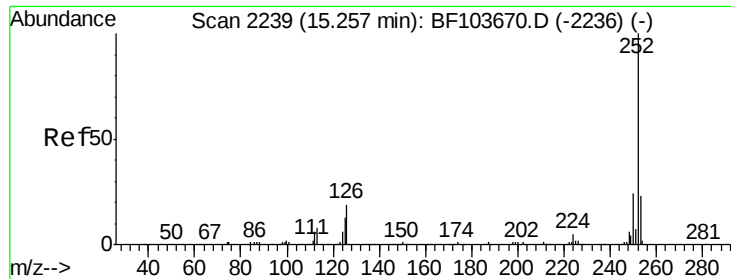
Delta R.T. -0.00 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Tgt Ion:	252	Resp:	411025
Ion Ratio		Lower	Upper
252	100		
253	22.9	17.0	25.6
125	13.1	9.0	13.6





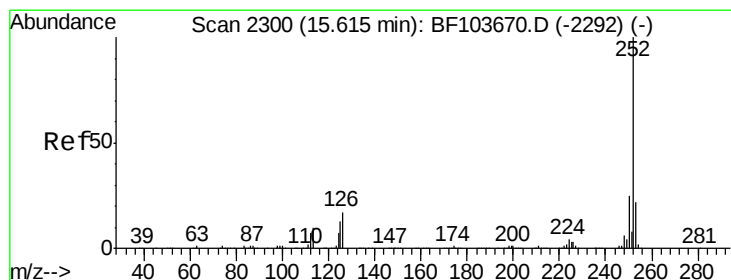
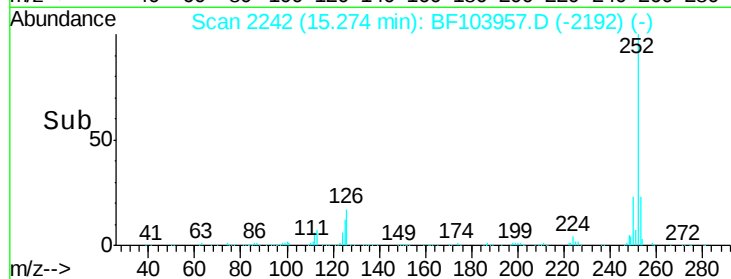
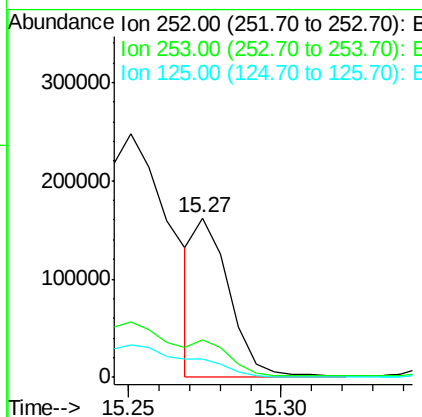
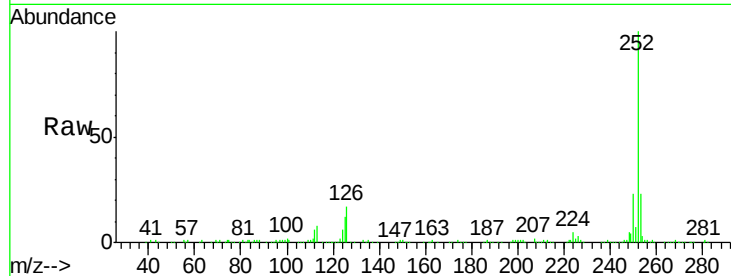
#88
Benzo(k)fluoranthene
Concen: 8.237 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Instrument :
BNA_F
ClientSampleId :
A2_SB43_SE_4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.9	10.2	15.2

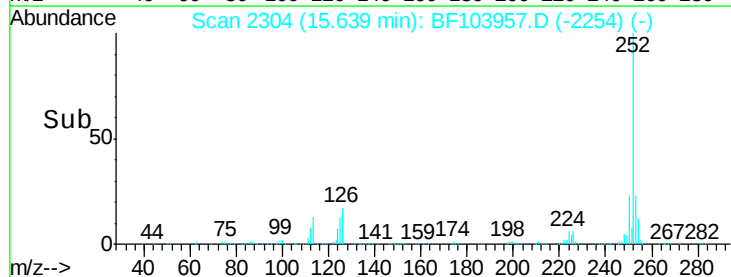
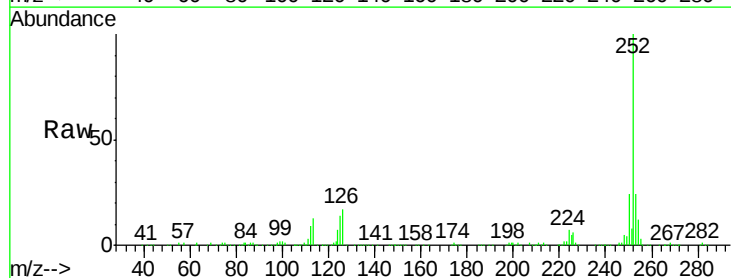
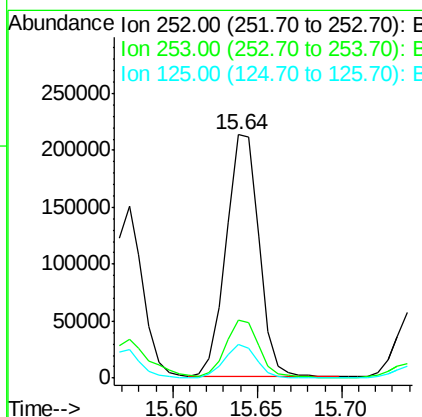
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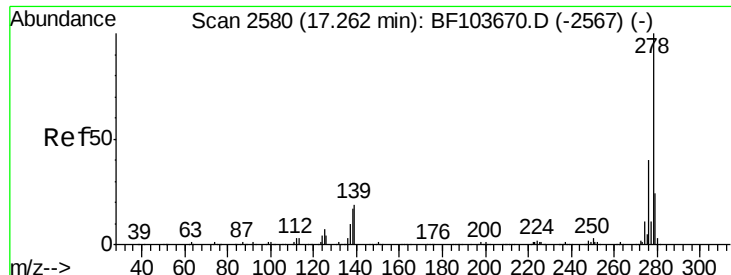
Sohil
3/27/2018 2:16:10 PM



#89
Benzo(a)pyrene
Concen: 19.509 ng
RT: 15.64 min Scan# 2304
Delta R.T. -0.01 min
Lab File: BF103957.D
Acq: 27 Mar 2018 6:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	13.9	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 3.262 ng

RT: 17.30 min Scan# 2586

Delta R.T. -0.02 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Instrument :

BNA_F

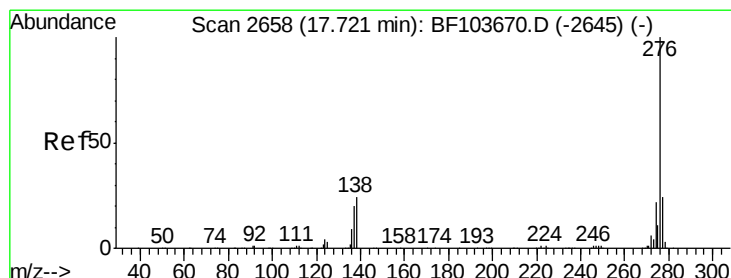
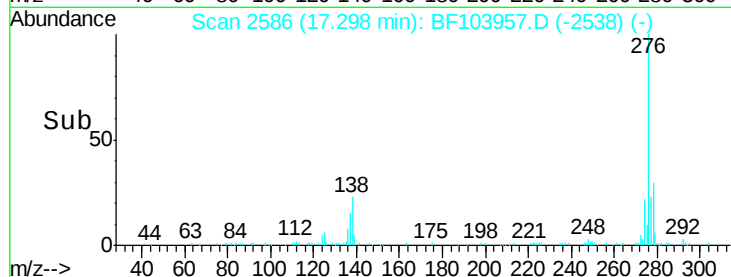
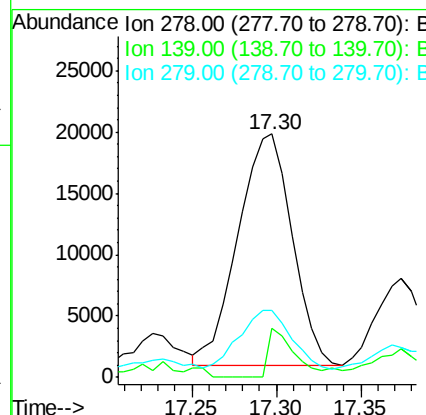
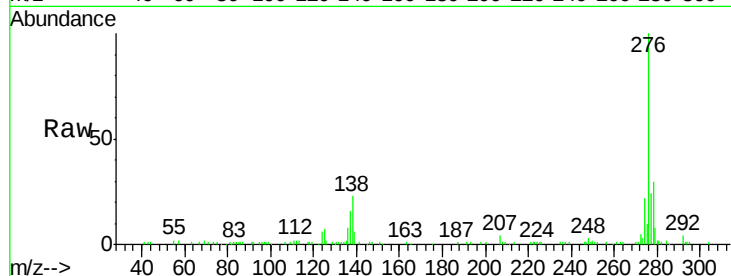
ClientSampleId :

A2 SB43 SE 4DL

Tot Ion:278	Resp:	41991
Ion Ratio	Lower	Upper
278	100	
139	19.9	15.9 23.9
279	27.7	19.0 28.4

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 12.922 ng

RT: 17.77 min Scan# 2667

Delta R.T. -0.01 min

Lab File: BF103957.D

Acq: 27 Mar 2018 6:23

Tgt Ion:276	Resp:	161838
Ion Ratio	Lower	Upper
276	100	
277	23.1	17.9 26.9
138	24.1	21.8 32.8

