

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
 Data File : BF103007.D
 Acq On : 15 Feb 2018 8:08
 Operator : SJ/JU
 Sample : J1539-19DL 2X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-SW(0-4)DL

Manual Integrations
 APPROVED

Sohil
 2/15/2018 11:06:49 AM

Quant Time: Feb 15 10:29:56 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 00:38:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	176770	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	694152	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	281860	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	363012	20.00	ng	0.01
75) Chrysene-d12	14.09	240	121279	20.00	ng	0.05
86) Perylene-d12	15.60	264	149068	20.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	576842	49.56	ng	0.00
7) Phenol-d6	6.50	99	684990	48.88	ng	0.00
23) Nitrobenzene-d5	7.44	82	401552	40.13	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	102631	45.24	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	668883	39.38	ng	0.00
78) Terphenyl-d14	13.01	244	256668	50.11	ng	0.02
Target Compounds						
31) Naphthalene	8.18	128	162643	4.796	ng	Qvalue # 95
37) 2-Methylnaphthalene	8.87	142	282496	12.722	ng	100
45) 1,1'-Biphenyl	9.33	154	47690	2.009	ng	100
49) Dimethylphthalate	9.63	163	46740	2.127	ng	# 72
51) Acenaphthene	9.95	154	58409	3.365	ng	92
57) Fluorene	10.47	166	81395	4.573	ng	# 91
70) Phenanthrene	11.43	178	520135	25.727	ng	99
71) Anthracene	11.49	178	132641m	6.450	ng	
72) Carbazole	11.64	167	42096	2.090	ng	# 57
74) Fluoranthene	12.64	202	383713	18.864	ng	97
77) Pyrene	12.87	202	380745	40.036	ng	97
80) Benzo(a)anthracene	14.07	228	113795	14.919	ng	# 87
82) Chrysene	14.11	228	111993	14.566	ng	# 89
85) Indeno(1,2,3-cd)pyrene	17.10	276	131607	20.638	ng	95
87) Benzo(b)fluoranthene	15.16	252	148108m	15.325	ng	
88) Benzo(k)fluoranthene	15.18	252	50261m	5.443	ng	
89) Benzo(a)pyrene	15.47	252	102672m	11.802	ng	
91) Benzo(g,h,i)perylene	17.56	276	133580	19.328	ng	93

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

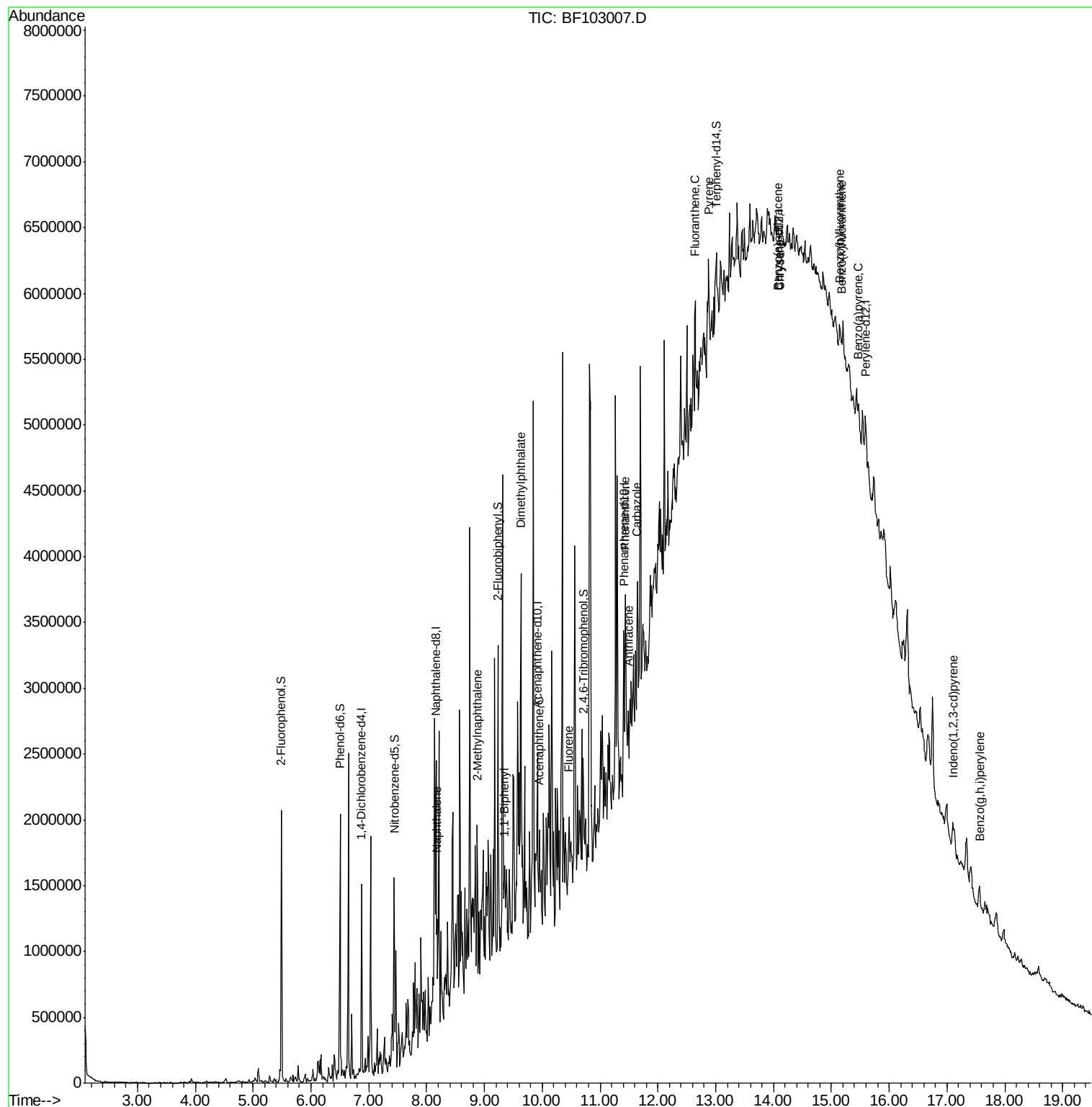
Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
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ALS Vial : 30 Sample Multiplier: 1

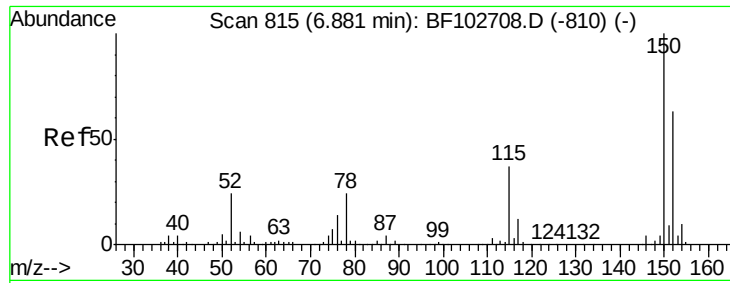
Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

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#1

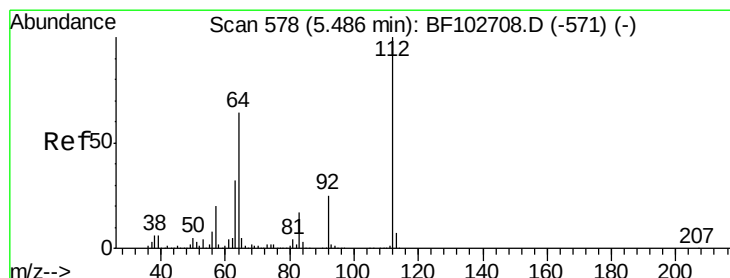
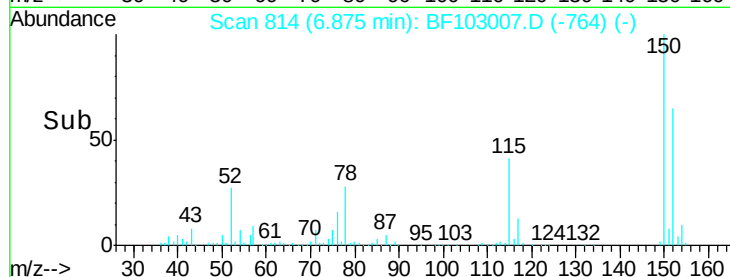
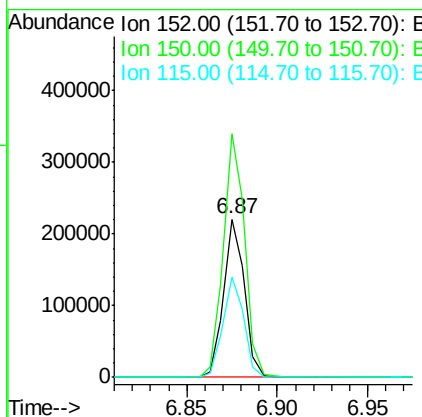
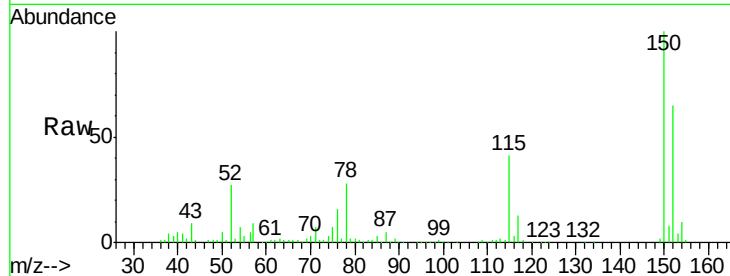
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.6	186.8
115	63.1	50.1	75.1

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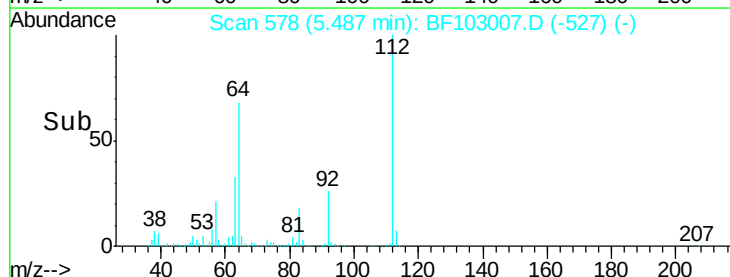
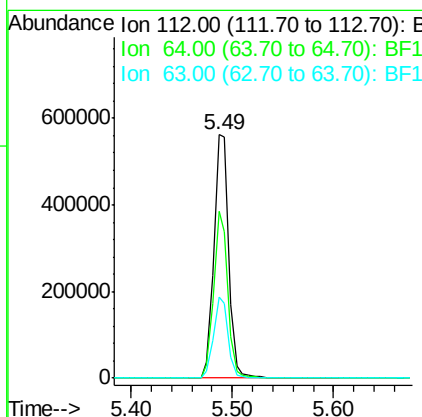
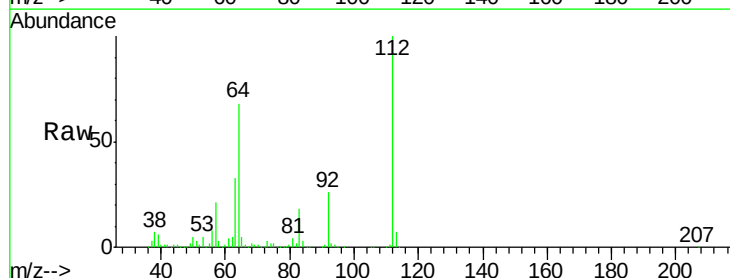
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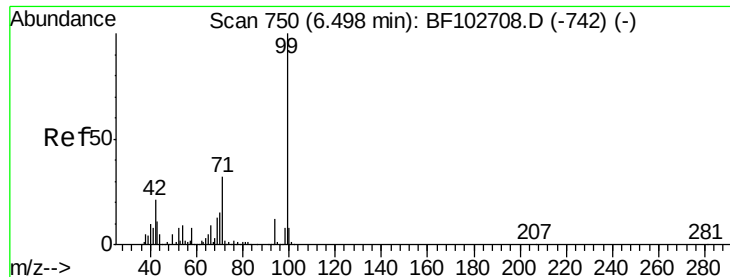


#5

2-Fluorophenol
Concen: 49.558 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.00 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.4	47.9	71.9
63	33.5	23.7	35.5





#7

Phenol-d6

Concen: 48.875 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

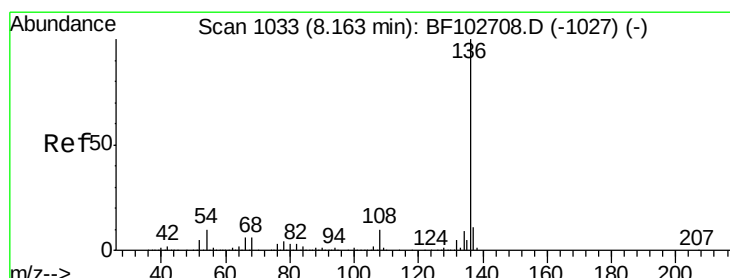
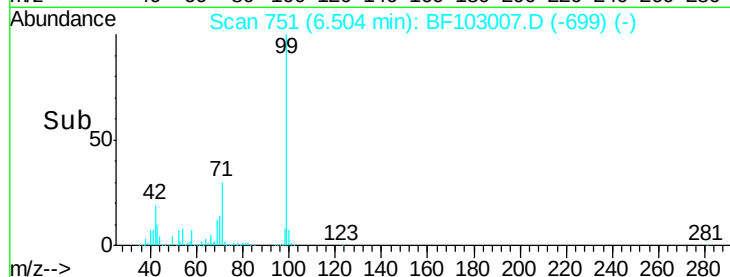
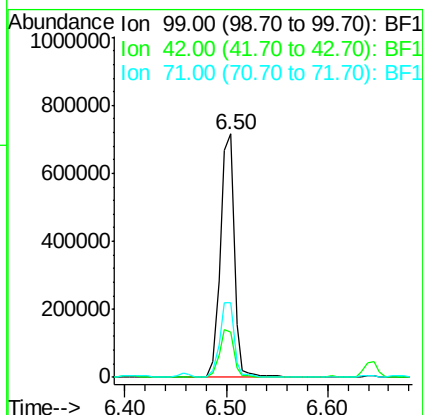
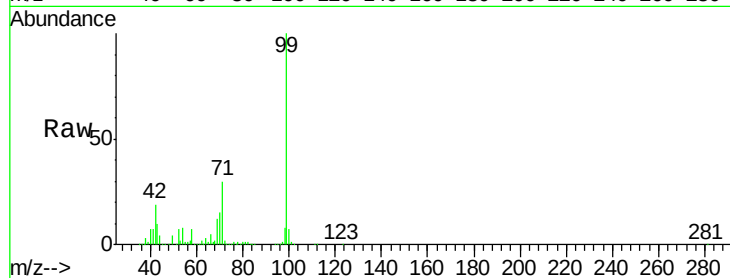
ClientSampleId :

CB-1-SW(0-4)DL

Tot Ion:	99	Resp:	684990
Ion Ratio	Lower	Upper	
99	100		
42	18.8	14.5	21.7
71	30.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

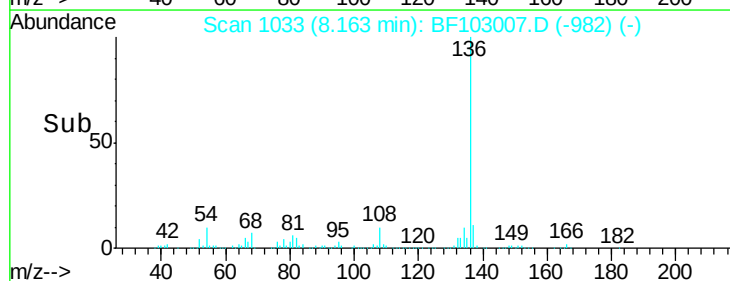
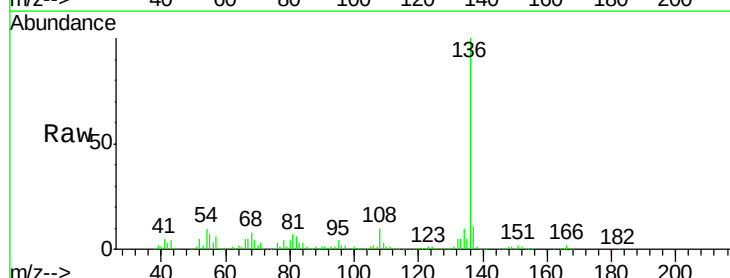
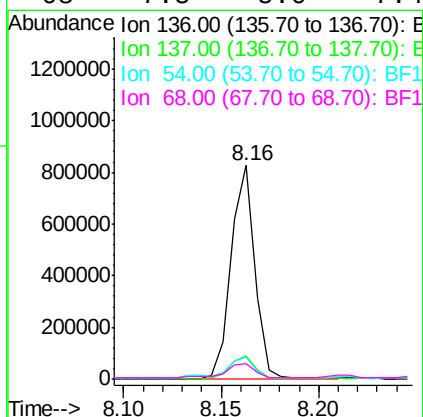
RT: 8.16 min Scan# 1033

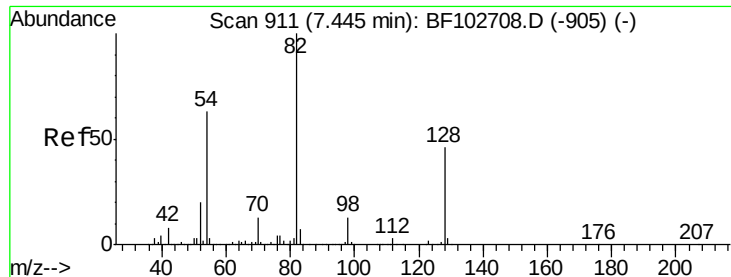
Delta R.T. 0.00 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	136	Resp:	694152
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	10.2	6.6	9.8#
68	7.5	5.0	7.4#





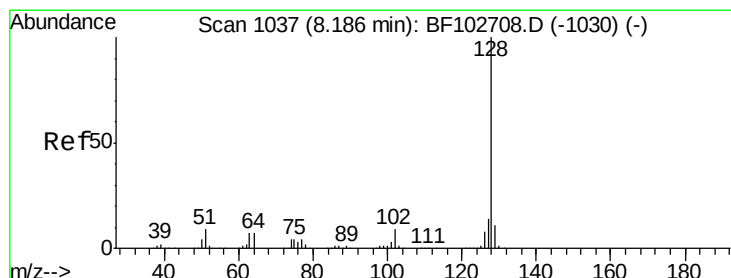
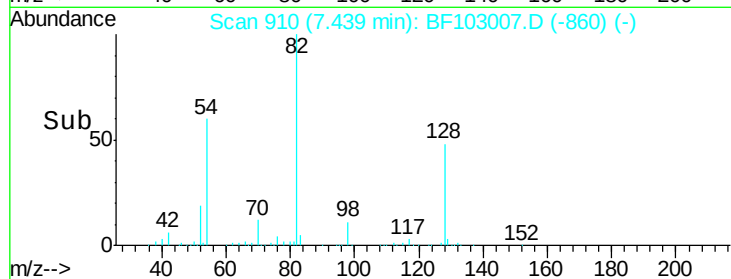
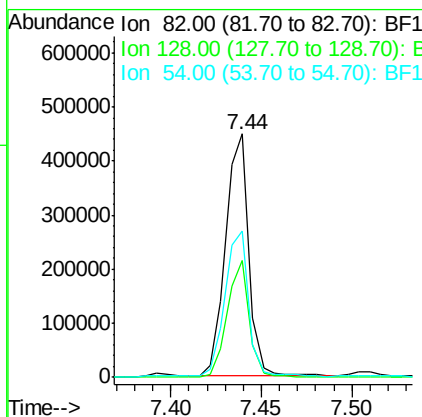
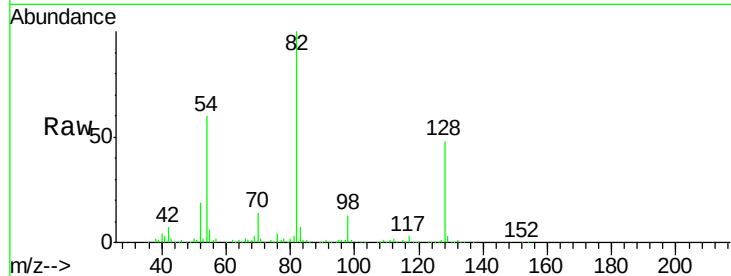
#23
Nitrobenzene-d5
Concen: 40.129 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.3	36.1	54.1
54	60.2	41.4	62.2

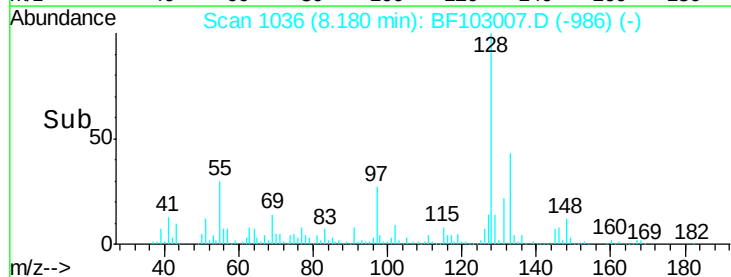
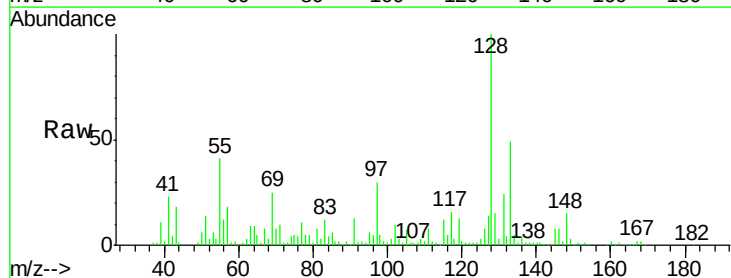
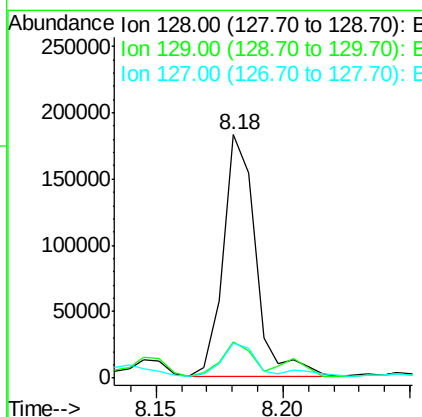
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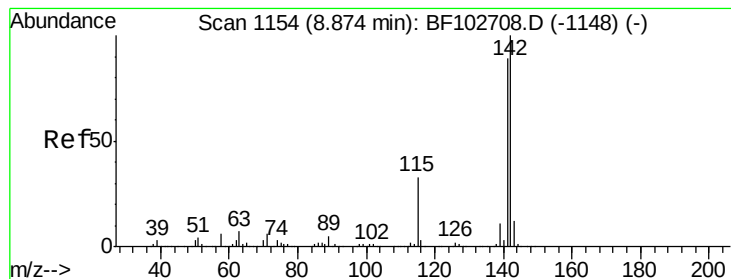
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#31
Naphthalene
Concen: 4.796 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.7	8.8	13.2#
127	14.3	10.9	16.3





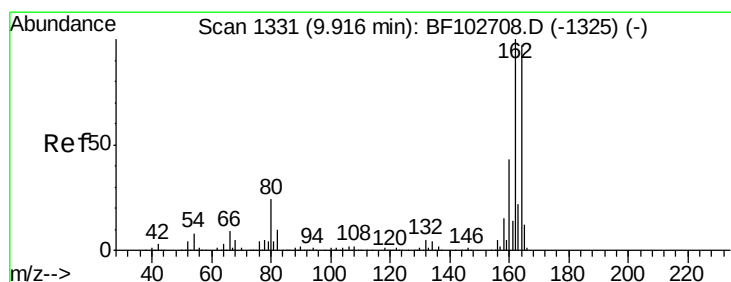
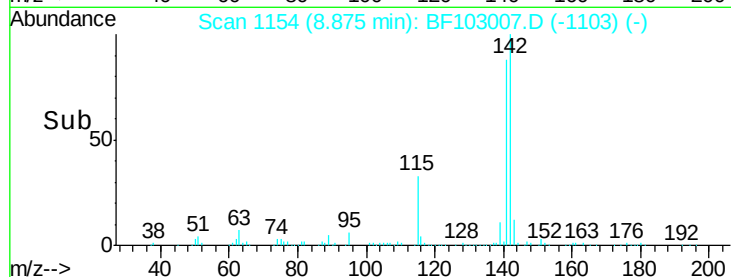
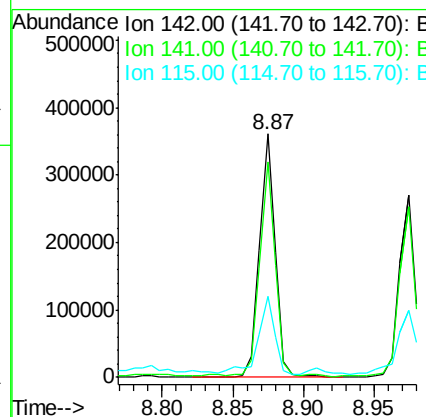
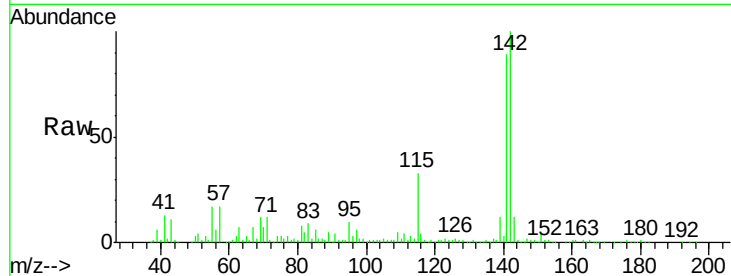
#37
2-Methylnaphthalene
Concen: 12.722 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.8	106.2
115	33.1	26.1	39.1

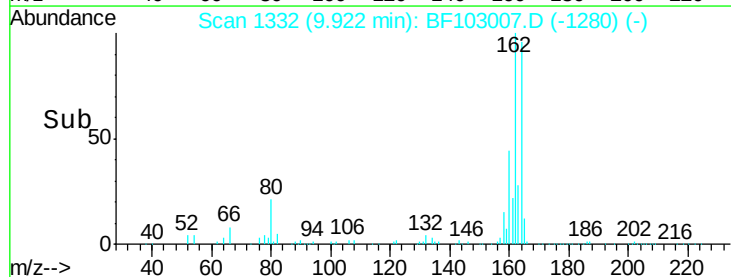
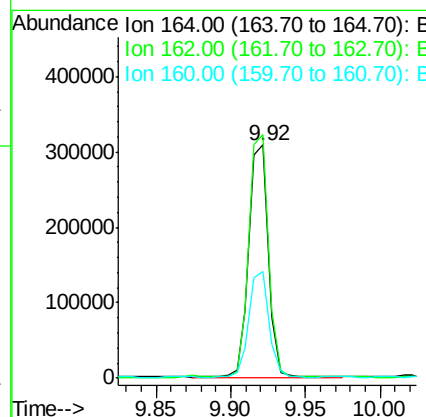
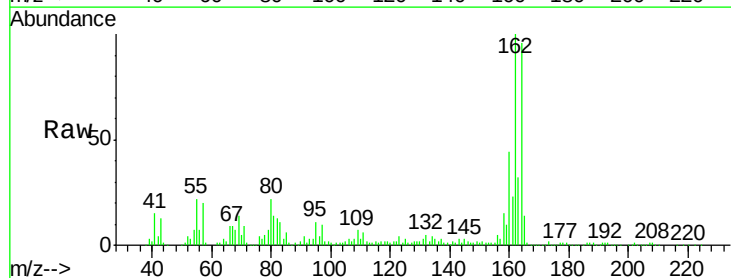
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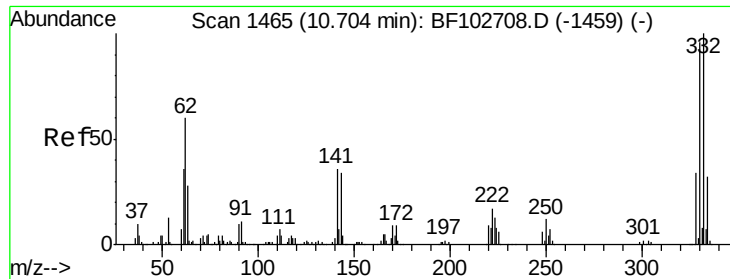
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.01 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	45.9	38.3	57.5





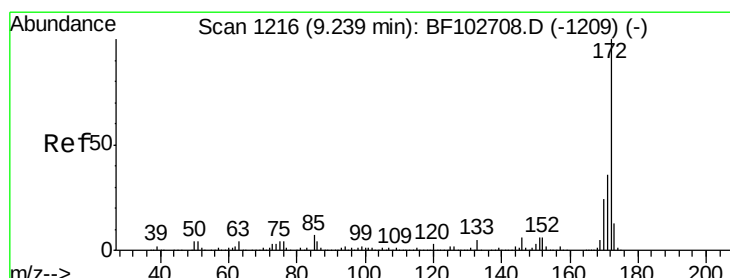
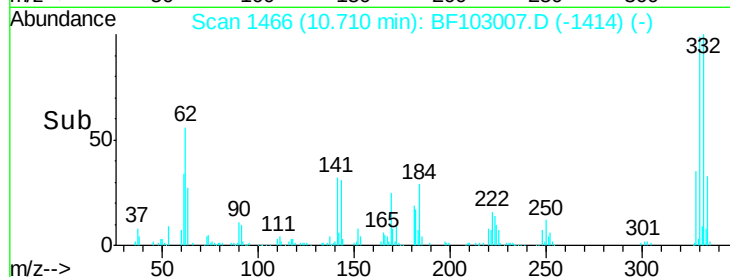
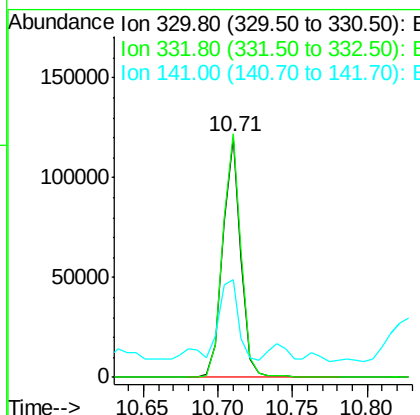
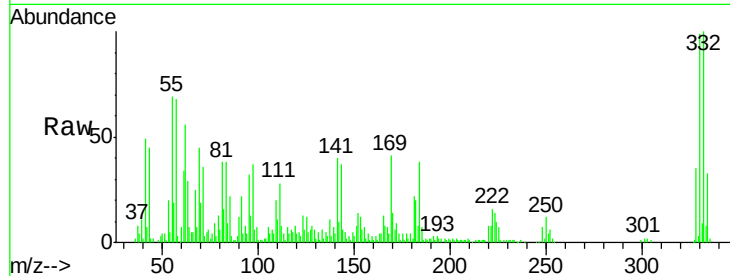
#41
 2,4,6-Tribromophenol
 Concen: 45.239 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.01 min
 Lab File: BF103007.D
 Acq: 15 Feb 2018 8:08

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-SW(0-4)DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.8	77.0	115.6	
141	40.1	29.9	44.9	

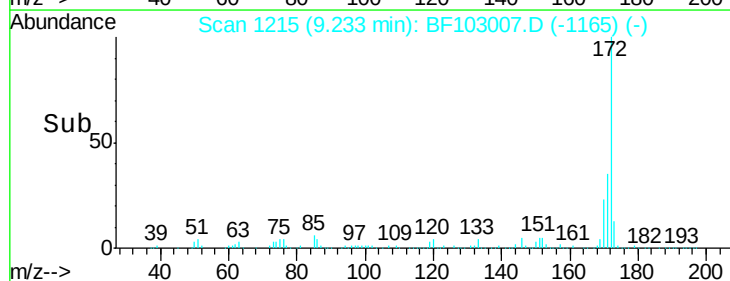
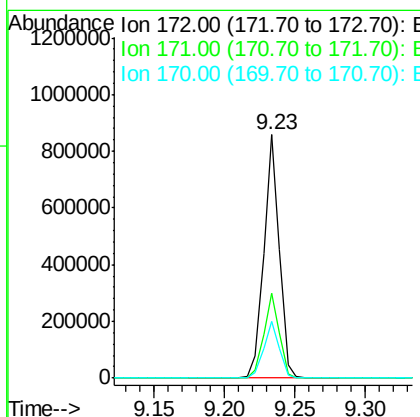
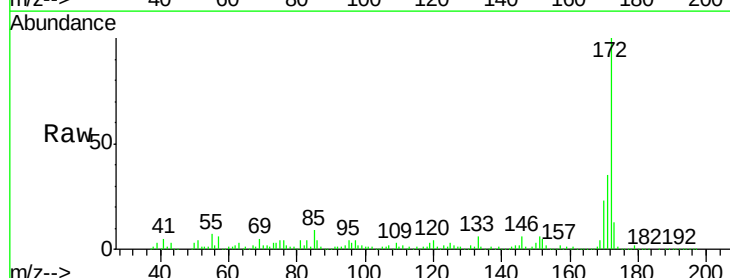
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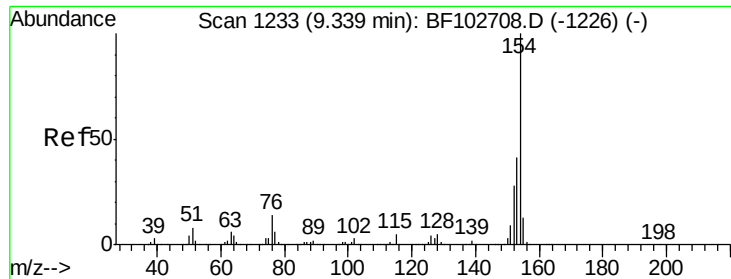
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#44
 2-Fluorobiphenyl
 Concen: 39.378 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF103007.D
 Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	29.7	44.5	
170	23.5	19.6	29.4	





#45

1,1'-Biphenyl

Concen: 2.009 ng

RT: 9.33 min Scan# 1232

Delta R.T. -0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

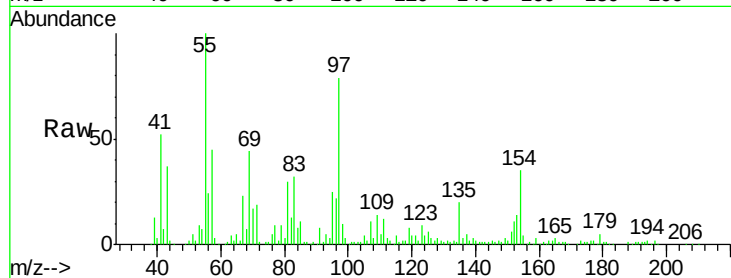
ClientSampleId :

CB-1-SW(0-4)DL

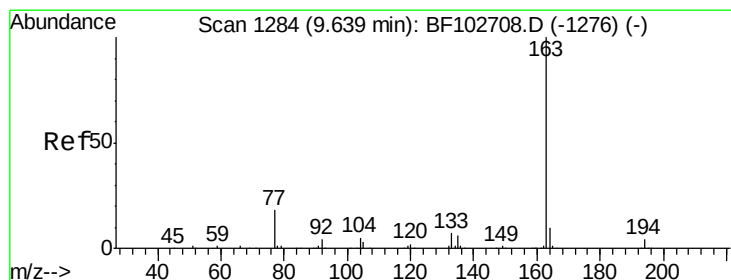
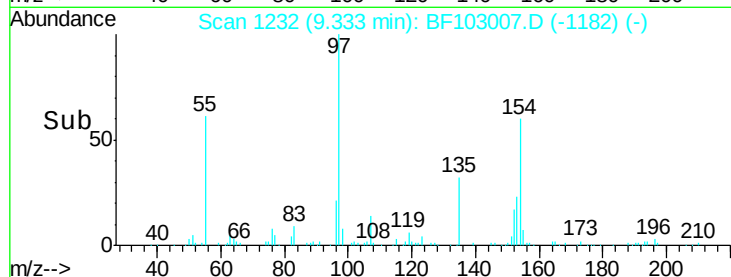
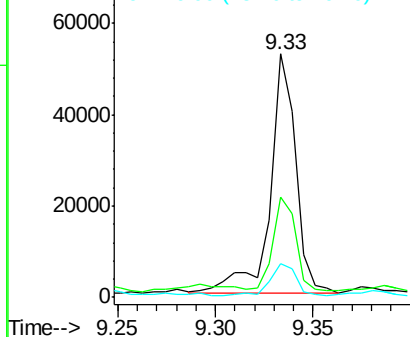
Tot Ion:	154	Resp:	47690
Ion Ratio	Lower	Upper	
154	100		
153	41.1	21.3	61.3
76	14.1	0.0	34.0

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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



#49

Dimethylphthalate

Concen: 2.127 ng

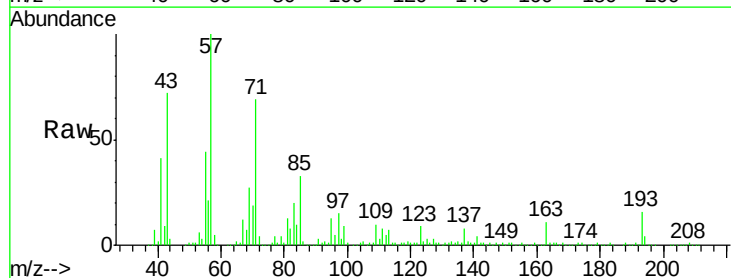
RT: 9.63 min Scan# 1282

Delta R.T. -0.01 min

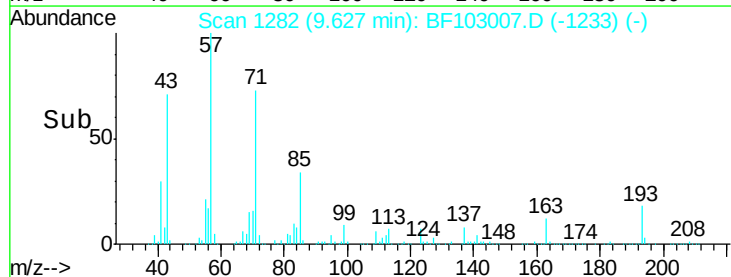
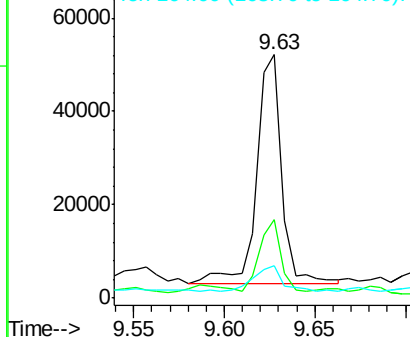
Lab File: BF103007.D

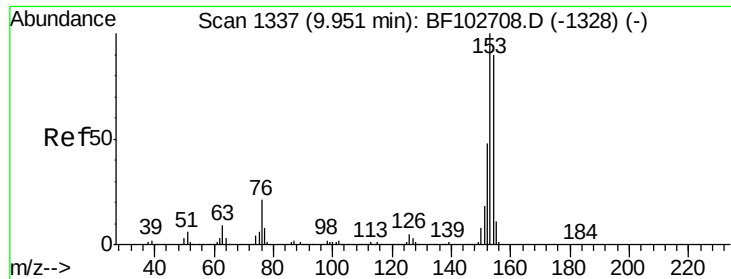
Acq: 15 Feb 2018 8:08

Tgt Ion:	163	Resp:	46740
Ion Ratio	Lower	Upper	
163	100		
194	32.3	2.7	4.1#
164	13.1	8.2	12.2#



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.365 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

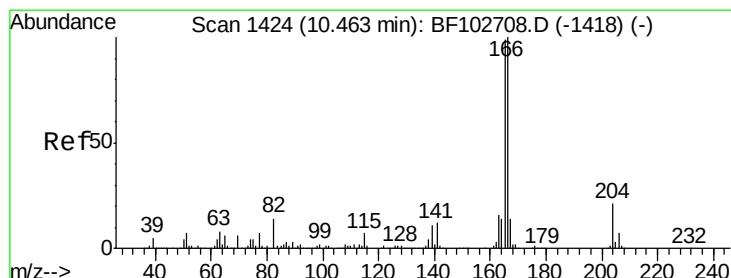
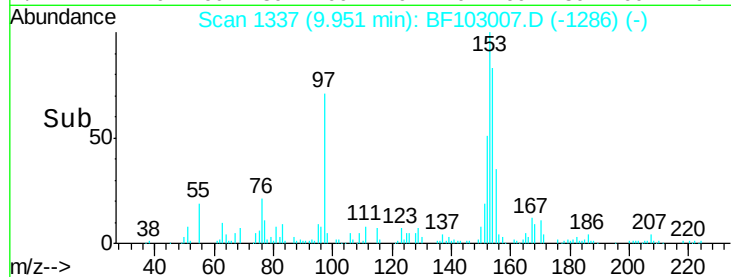
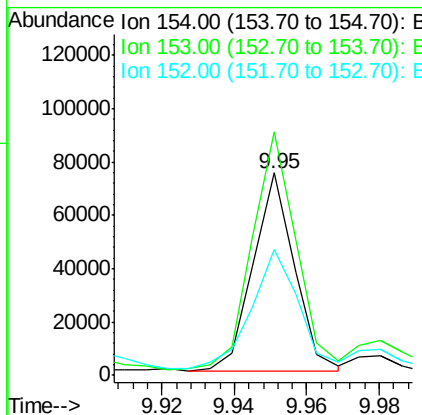
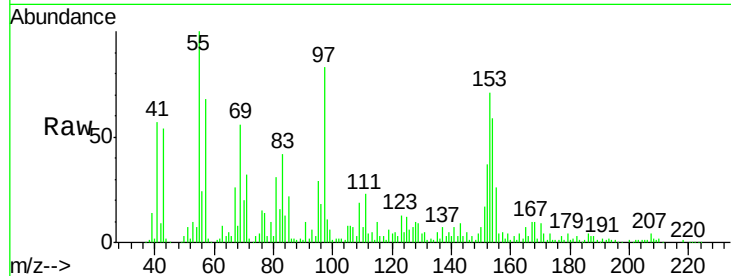
ClientSampleId :

CB-1-SW(0-4)DL

Tot Ion:	154	Resp:	58409
Ion Ratio	Lower	Upper	
154	100		
153	120.5	91.2	136.8
152	62.5	43.8	65.8

Manual Integrations
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#57

Fluorene

Concen: 4.573 ng

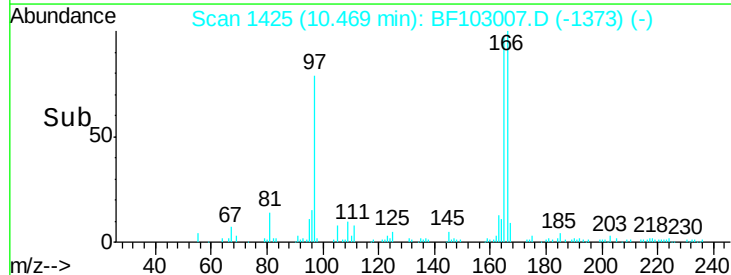
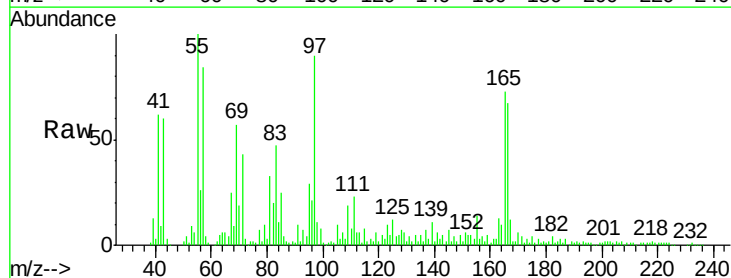
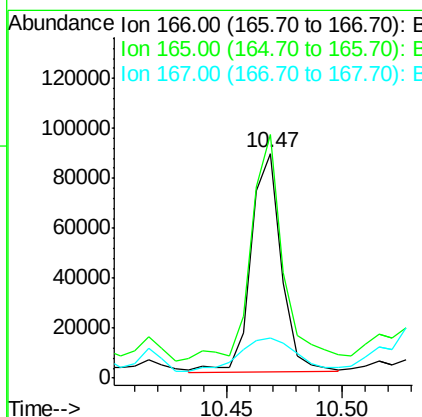
RT: 10.47 min Scan# 1425

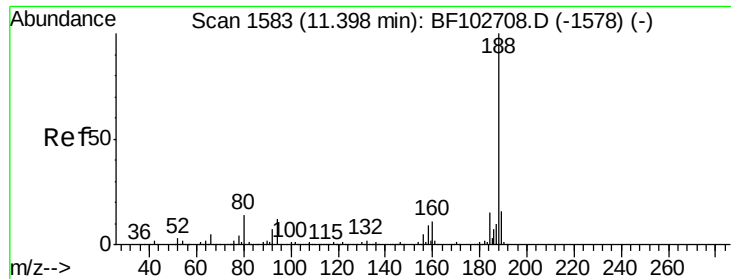
Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	166	Resp:	81395
Ion Ratio	Lower	Upper	
166	100		
165	108.5	79.8	119.8
167	18.1	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

ClientSampleId :

CB-1-SW(0-4)DL

Tot Ion:188 Resp: 363012

Ion Ratio Lower Upper

188 100

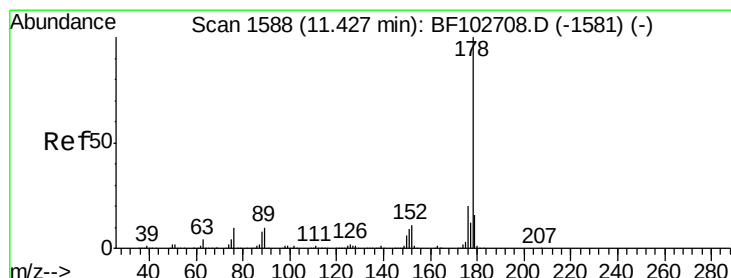
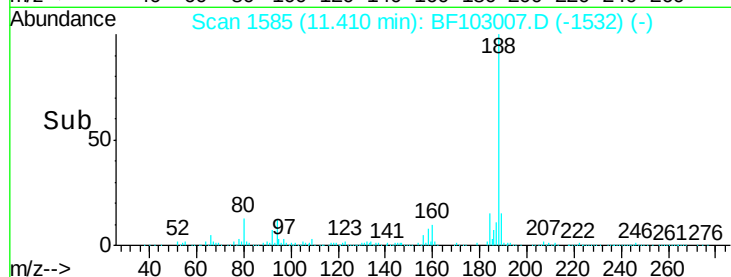
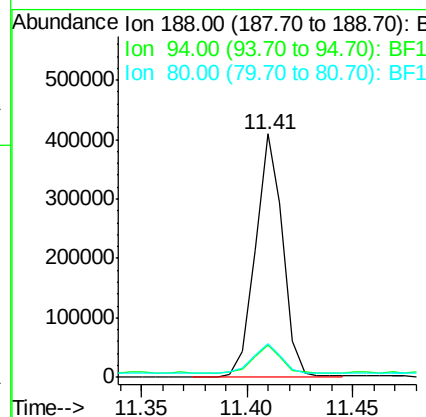
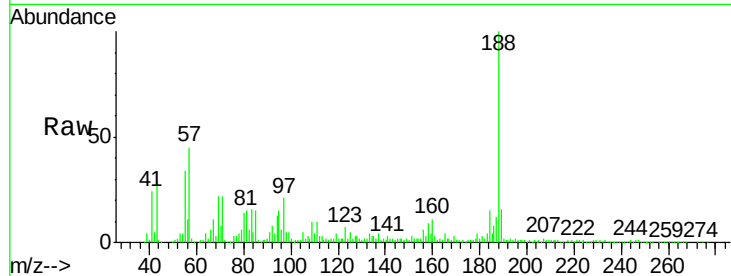
94 13.1 8.5 12.7#

80 14.0 9.2 13.8#

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#70

Phenanthrene

Concen: 25.727 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

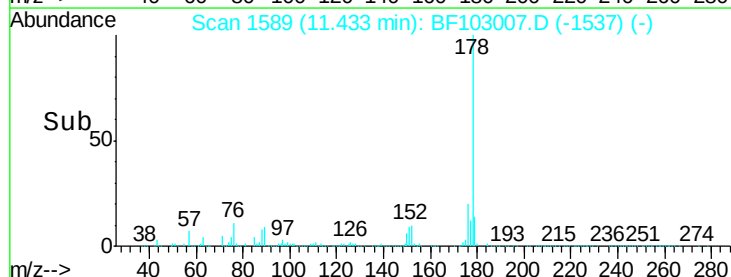
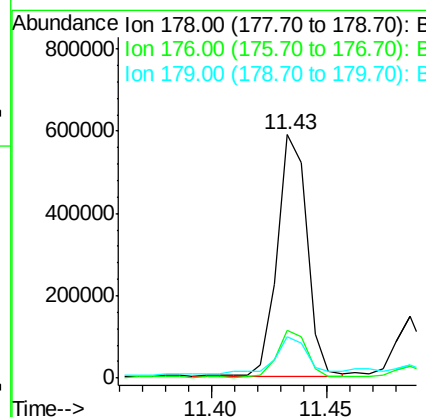
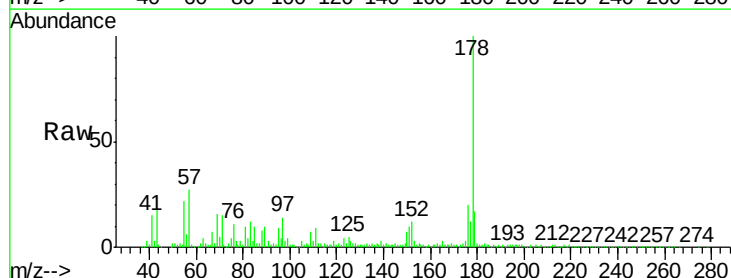
Tgt Ion:178 Resp: 520135

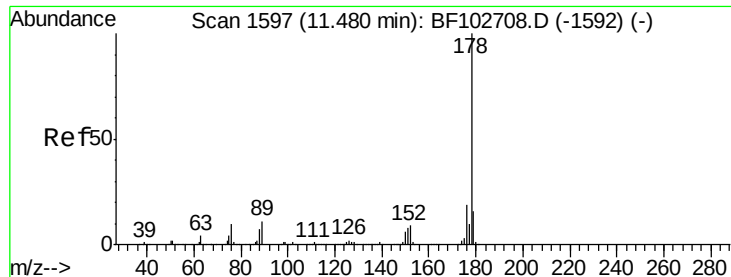
Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

179 16.7 13.0 19.6





#71

Anthracene

Concen: 6.450 ng/mL

RT: 11.49 min Scan# 1598

Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

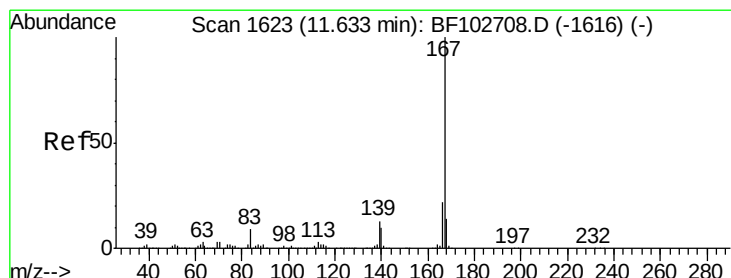
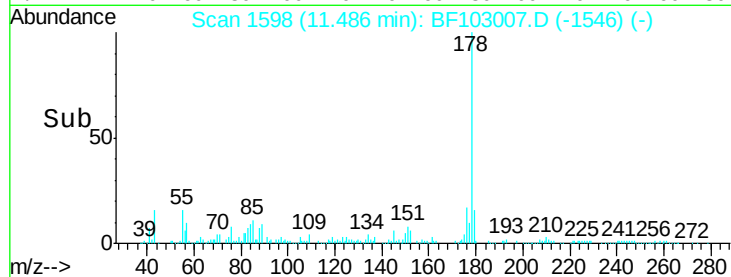
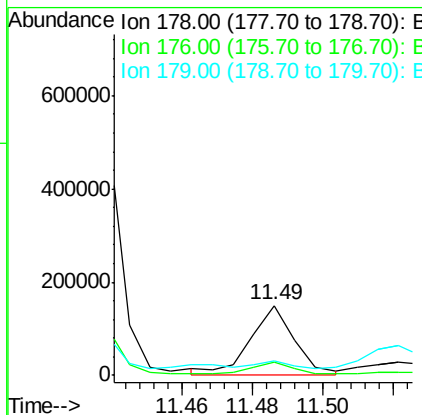
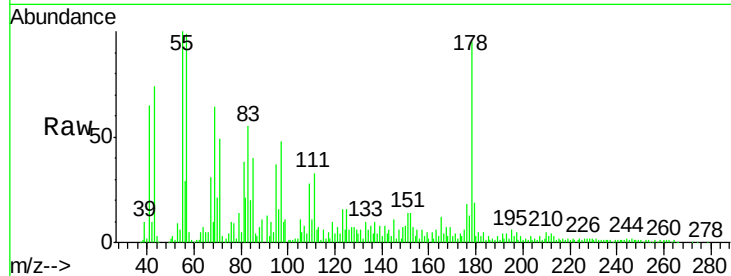
ClientSampleID :

CB-1-SW(0-4)DL

Tot Ion:	178	Resp:	132641
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.4	23.2
179	20.4	12.6	19.0#

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#72

Carbazole

Concen: 2.090 ng/mL

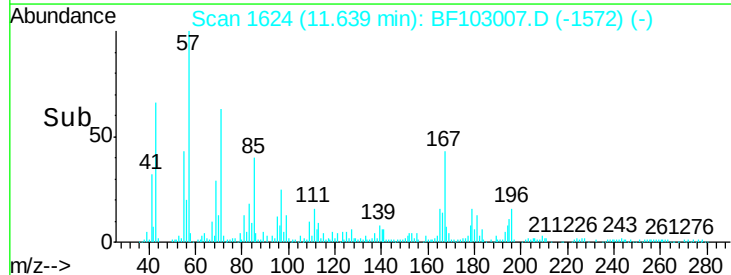
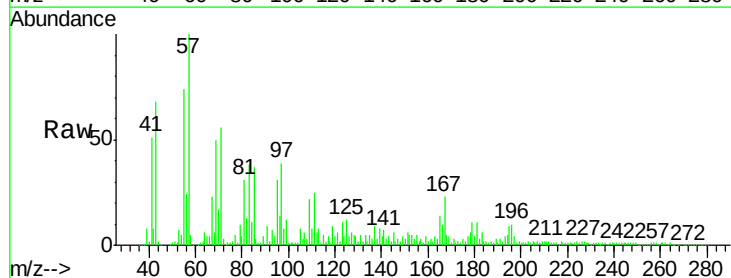
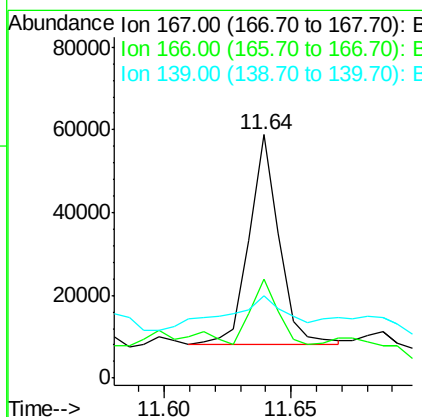
RT: 11.64 min Scan# 1624

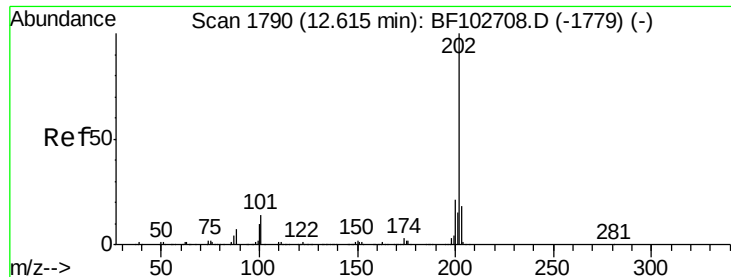
Delta R.T. 0.01 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	167	Resp:	42096
Ion Ratio	Lower	Upper	
167	100		
166	40.7	17.6	26.4#
139	33.7	10.9	16.3#





#74

Fluoranthene

Concen: 18.864 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.02 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

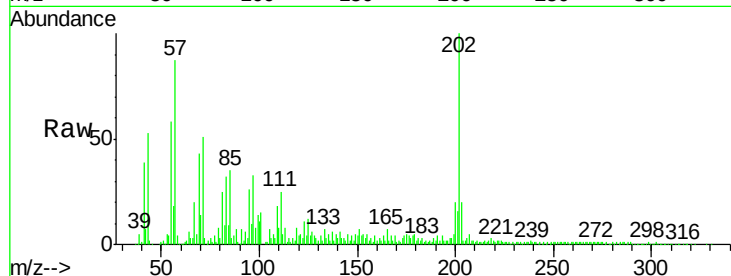
ClientSampleId :

CB-1-SW(0-4)DL

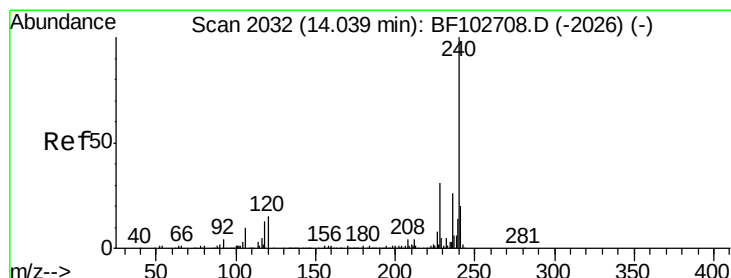
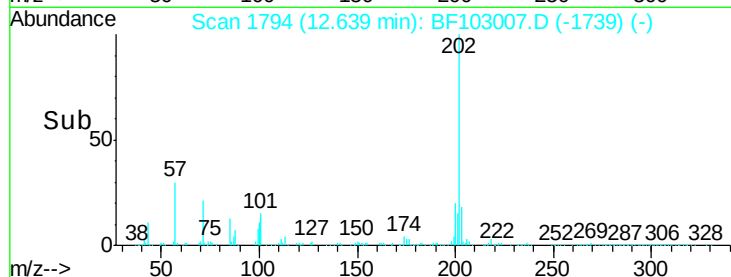
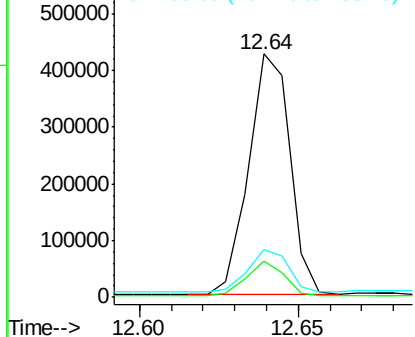
Tot Ion	Ratio	Resp	Lower	Upper
202	100	383713		
101	14.9	0.0	34.1	
203	19.8	0.0	38.1	

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



#75

Chrysene-d12

Concen: 20.000 ng

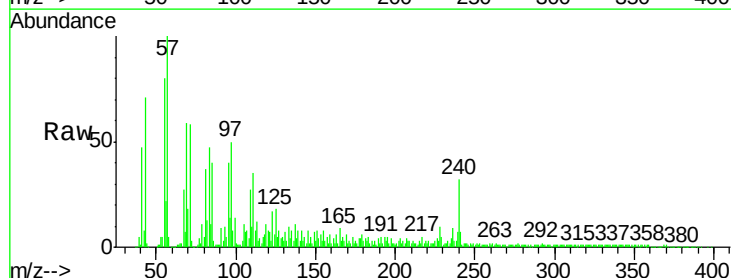
RT: 14.09 min Scan# 2040

Delta R.T. 0.05 min

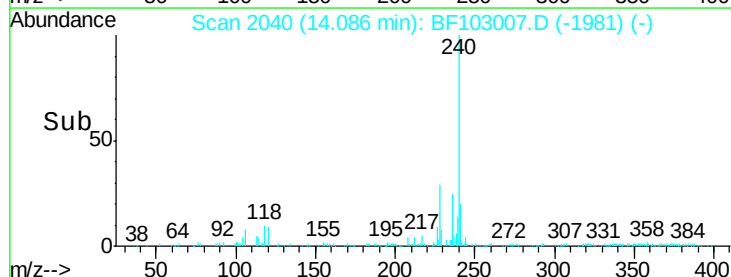
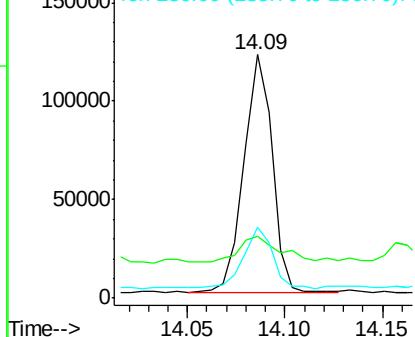
Lab File: BF103007.D

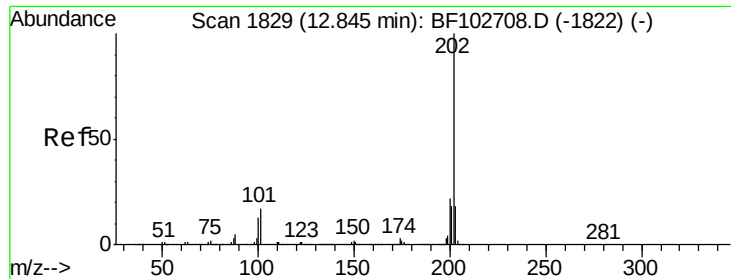
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	121279		
120	25.4	9.5	14.3#	
236	29.2	20.7	31.1	



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





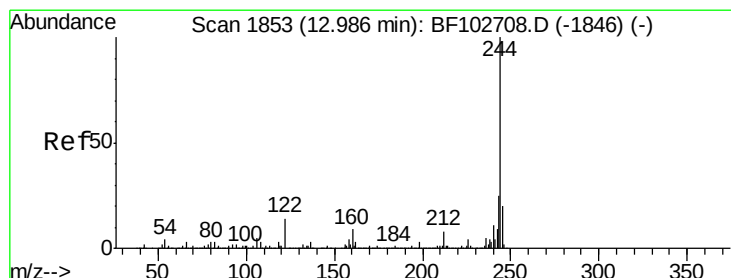
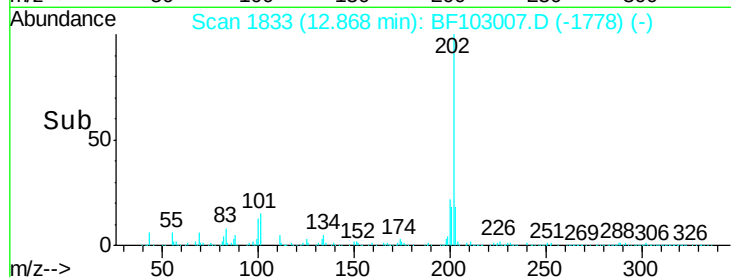
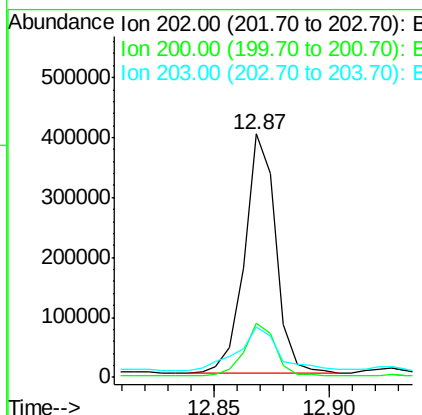
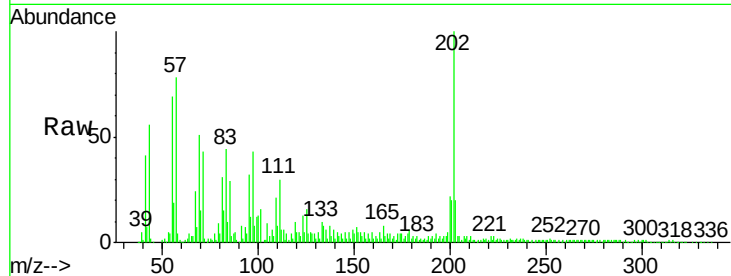
#77
Pvrene
Concen: 40.036 ng
RT: 12.87 min Scan# 1833
Delta R.T. 0.02 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.3	17.4	26.2
203	20.4	14.3	21.5

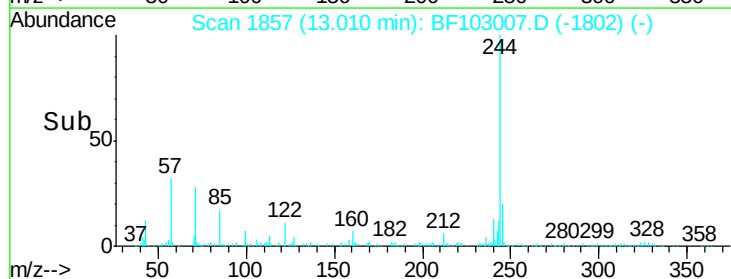
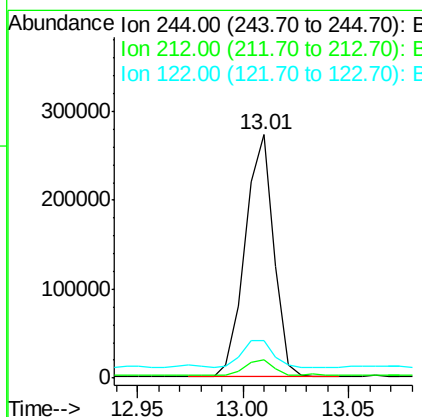
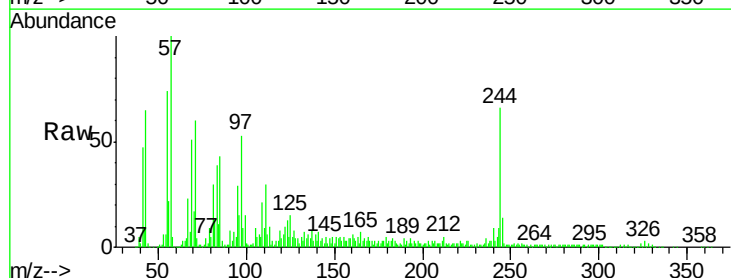
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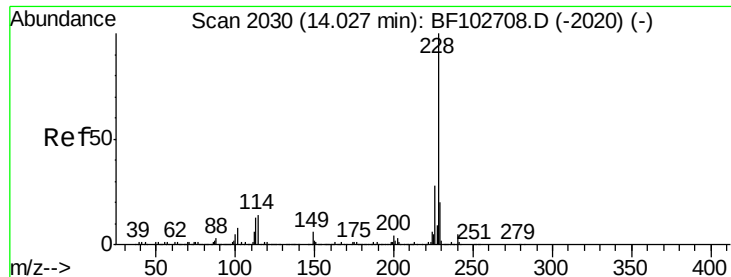
Sohil
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#78
Terphenyl-d14
Concen: 50.110 ng
RT: 13.01 min Scan# 1857
Delta R.T. 0.02 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.3	5.4	8.0
122	15.2	11.0	16.4





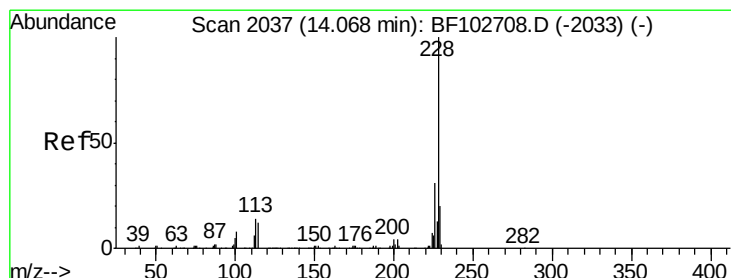
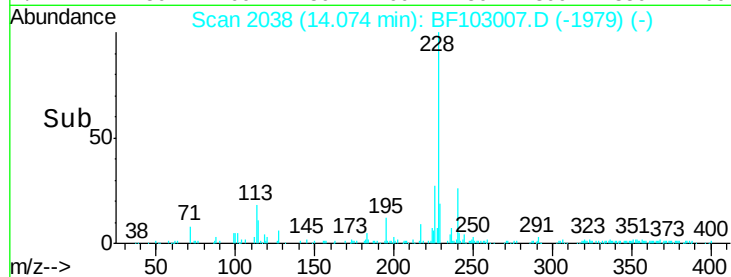
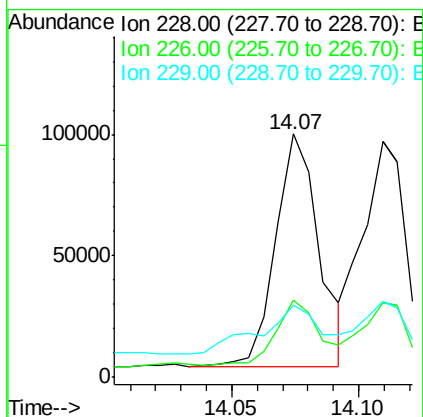
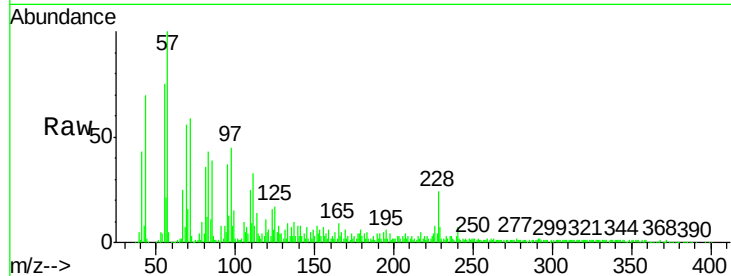
#80
Benzo(a)anthracene
Concen: 14.919 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.05 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(0-4)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	22.6	33.8
229	29.5	15.8	23.6

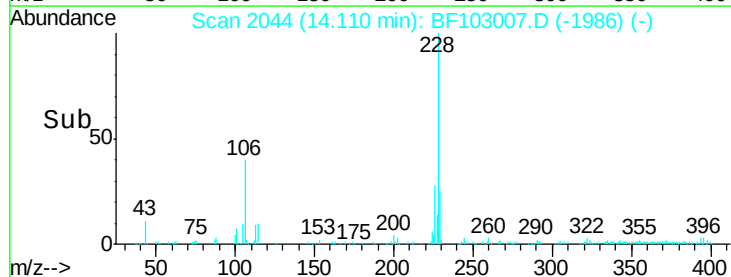
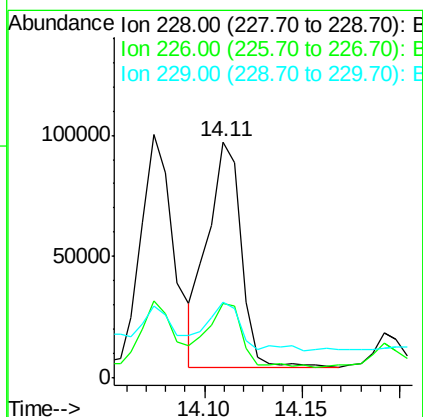
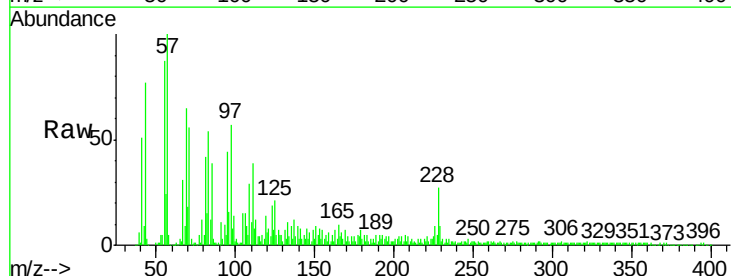
Manual Integrations
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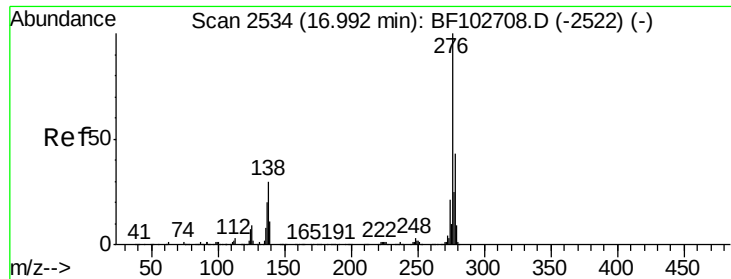
Sohil
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#82
Chrysene
Concen: 14.566 ng
RT: 14.11 min Scan# 2044
Delta R.T. 0.04 min
Lab File: BF103007.D
Acq: 15 Feb 2018 8:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.0	37.6
229	32.3	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 20.638 ng

RT: 17.10 min Scan# 2553

Delta R.T. 0.11 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

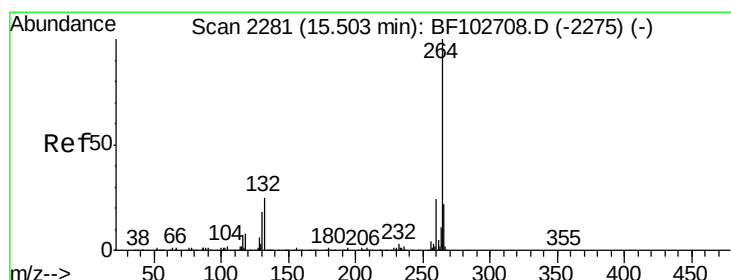
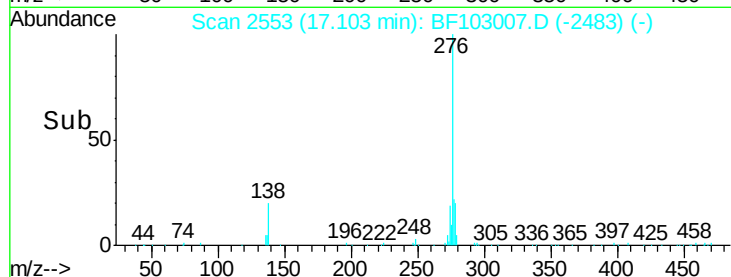
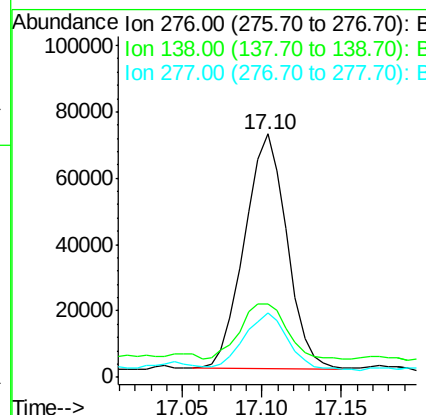
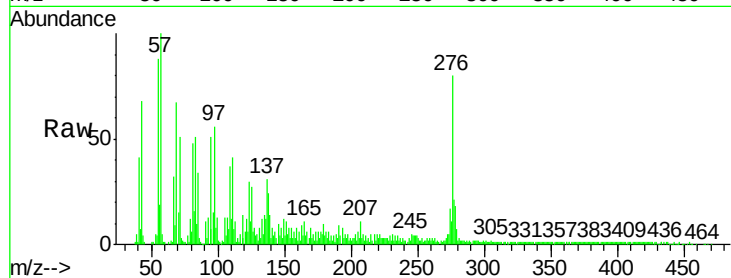
ClientSampleID :

CB-1-SW(0-4)DL

Tot Ion:	276	Resp:	131607
Ion Ratio	Lower	Upper	
276	100		
138	25.9	25.0	37.6
277	25.1	20.1	30.1

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#86

Perylene-d12

Concen: 20.000 ng

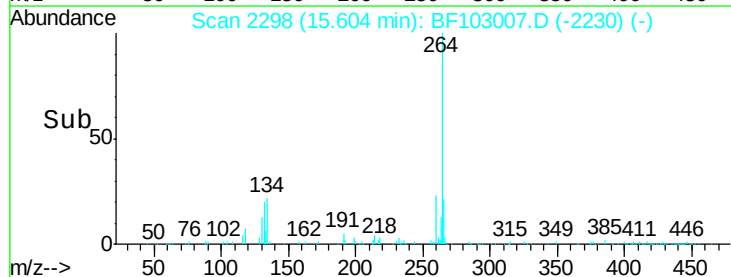
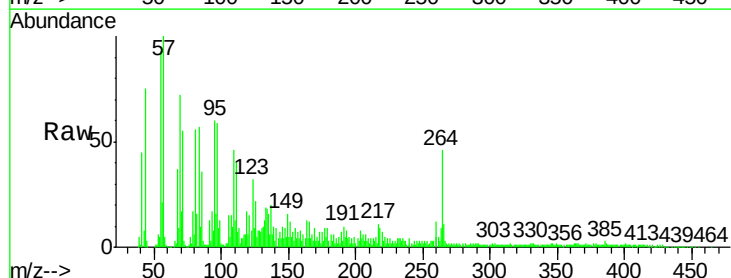
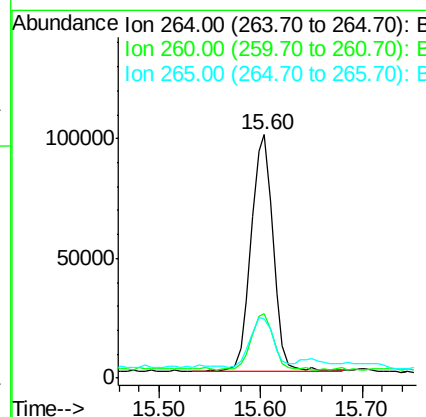
RT: 15.60 min Scan# 2298

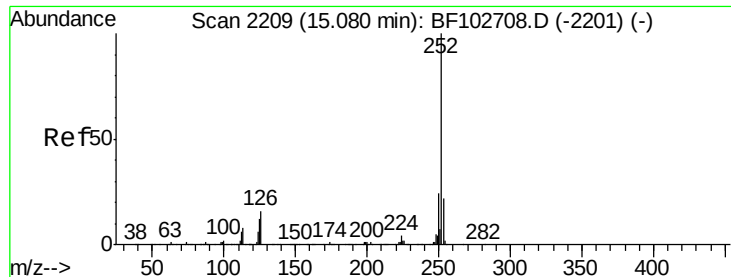
Delta R.T. 0.10 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	264	Resp:	149068
Ion Ratio	Lower	Upper	
264	100		
260	26.5	19.2	28.8
265	24.5	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 15.325 ng m

RT: 15.16 min Scan# 2222

Delta R.T. 0.08 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

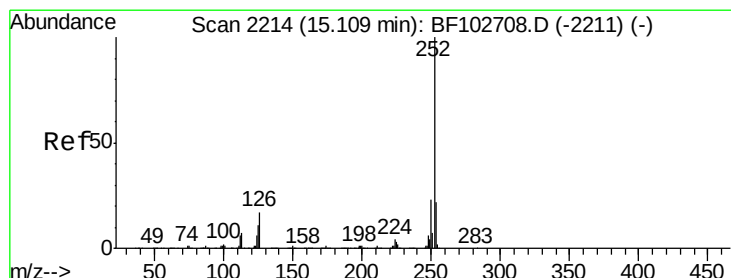
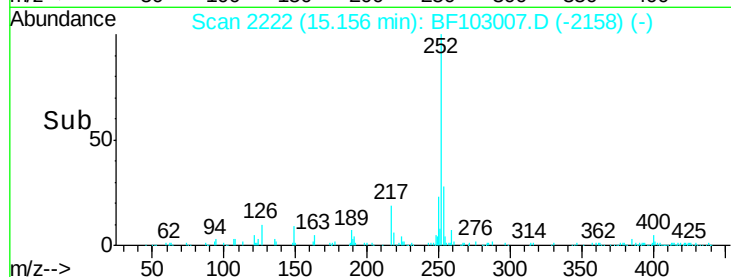
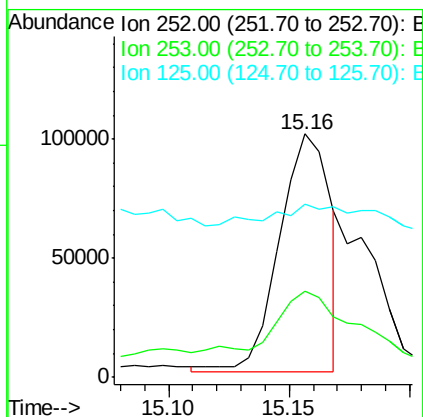
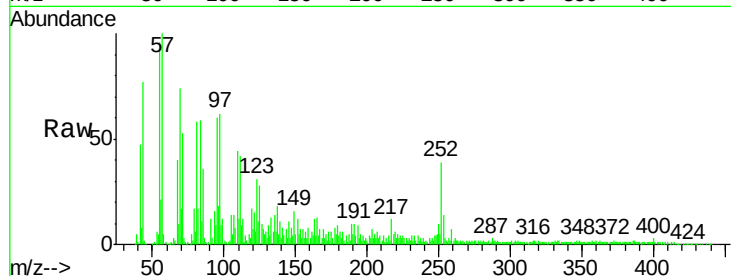
ClientSampleId :

CB-1-SW(0-4)DL

Tot Ion:	252	Resp:	148108
Ion Ratio	Lower	Upper	
252	100		
253	35.4	17.0	25.6#
125	70.9	9.0	13.6#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 5.443 ng m

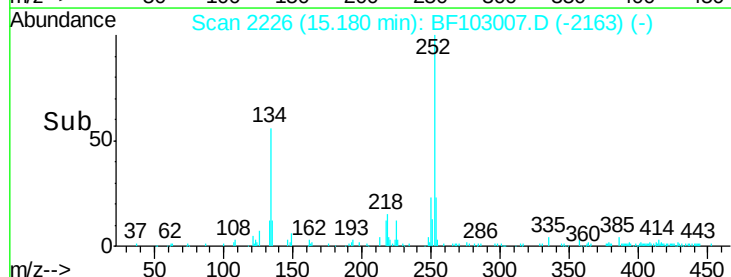
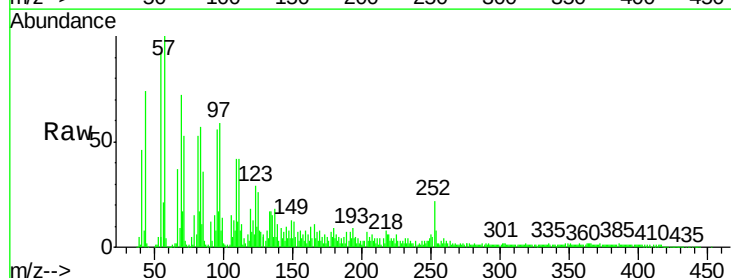
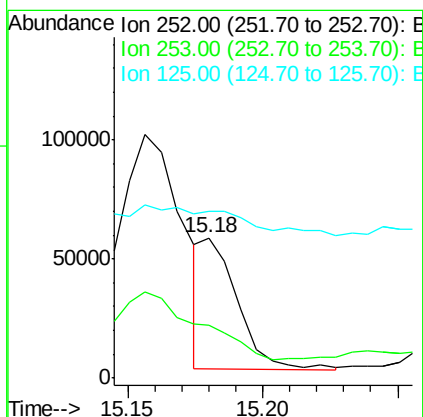
RT: 15.18 min Scan# 2226

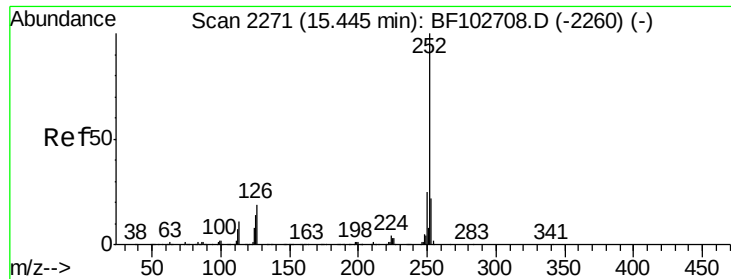
Delta R.T. 0.07 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	252	Resp:	50261
Ion Ratio	Lower	Upper	
252	100		
253	37.3	17.9	26.9#
125	118.5	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 11.802 ng m

RT: 15.47 min Scan# 2276

Delta R.T. 0.03 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Instrument :

BNA_F

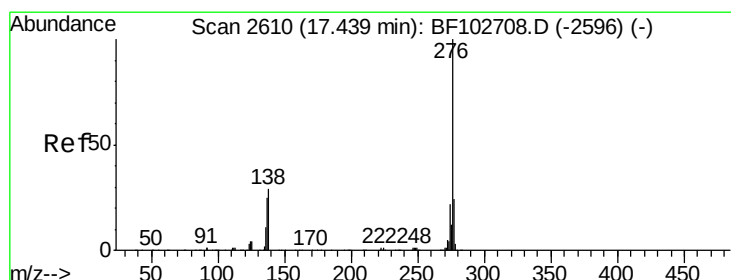
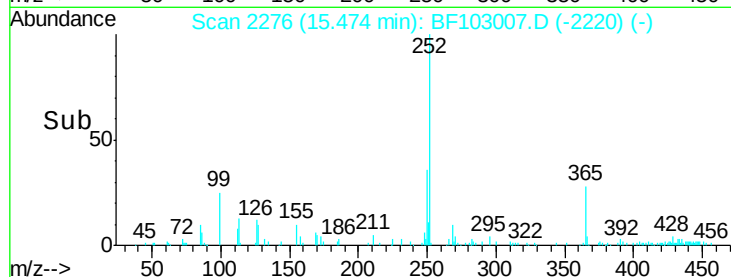
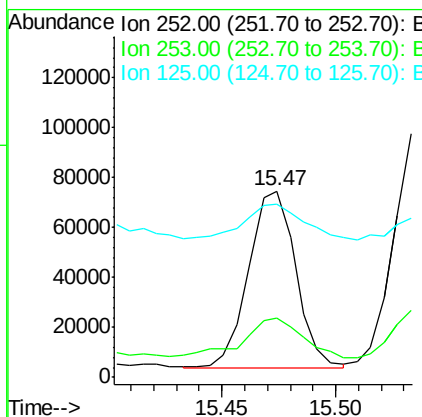
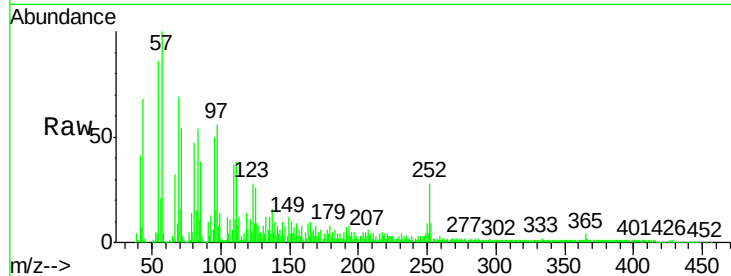
ClientSampleId :

CB-1-SW(0-4)DL

Tot Ion:	252	Resp:	102672
Ion Ratio	Lower	Upper	
252	100		
253	31.7	17.1	25.7#
125	92.8	9.8	14.6#

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 19.328 ng

RT: 17.56 min Scan# 2630

Delta R.T. 0.12 min

Lab File: BF103007.D

Acq: 15 Feb 2018 8:08

Tgt Ion:	276	Resp:	133580
Ion Ratio	Lower	Upper	
276	100		
277	25.6	17.9	26.9
138	30.9	21.8	32.8

