

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF031618\
 Data File : BF103712.D
 Acq On : 16 Mar 2018 22:27
 Operator : JU/SJ
 Sample : J1756-05
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-031518

Manual Integrations
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Sohil
 3/19/2018 2:02:34 PM

Quant Time: Mar 17 03:35:14 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	144094	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	539409	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	209473	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	323131	20.00	ng	0.00
75) Chrysene-d12	14.16	240	299806	20.00	ng	0.00
86) Perylene-d12	15.69	264	221003	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	965575	101.92	ng	0.01
7) Phenol-d6	6.59	99	1153892	99.56	ng	0.00
23) Nitrobenzene-d5	7.53	82	666064	86.11	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	177129	98.35	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	998385	76.03	ng	0.00
78) Terphenyl-d14	13.09	244	802285	62.11	ng	0.00
Target Compounds						
10) Phenol	6.60	94	41692	3.385	ng	96
31) Naphthalene	8.27	128	98209	3.604	ng	99
37) 2-Methylnaphthalene	8.96	142	46852	2.711	ng	99
48) Acenaphthylene	9.87	152	91702	4.263	ng	99
49) Dimethylphthalate	9.72	163	118138	7.392	ng	99
51) Acenaphthene	10.04	154	31438	2.461	ng	99
57) Fluorene	10.56	166	50291	3.552	ng	98
70) Phenanthrene	11.53	178	277529	15.701	ng	99
71) Anthracene	11.57	178	112527	6.268	ng	99
74) Fluoranthene	12.72	202	438720	24.092	ng	98
77) Pyrene	12.95	202	472145	21.444	ng	99
80) Benzo(a)anthracene	14.14	228	235284m	12.398	ng	
82) Chrysene	14.18	228	232203m	12.836	ng	
87) Benzo(b)fluoranthene	15.23	252	238615m	17.090	ng	
88) Benzo(k)fluoranthene	15.26	252	62932m	4.689	ng	
89) Benzo(a)pyrene	15.63	252	164163	12.963	ng	# 94
90) Dibenzo(a,h)anthracene	17.27	278	22153	2.020	ng	# 71
91) Benzo(g,h,i)perylene	17.74	276	84439	7.915	ng	97

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

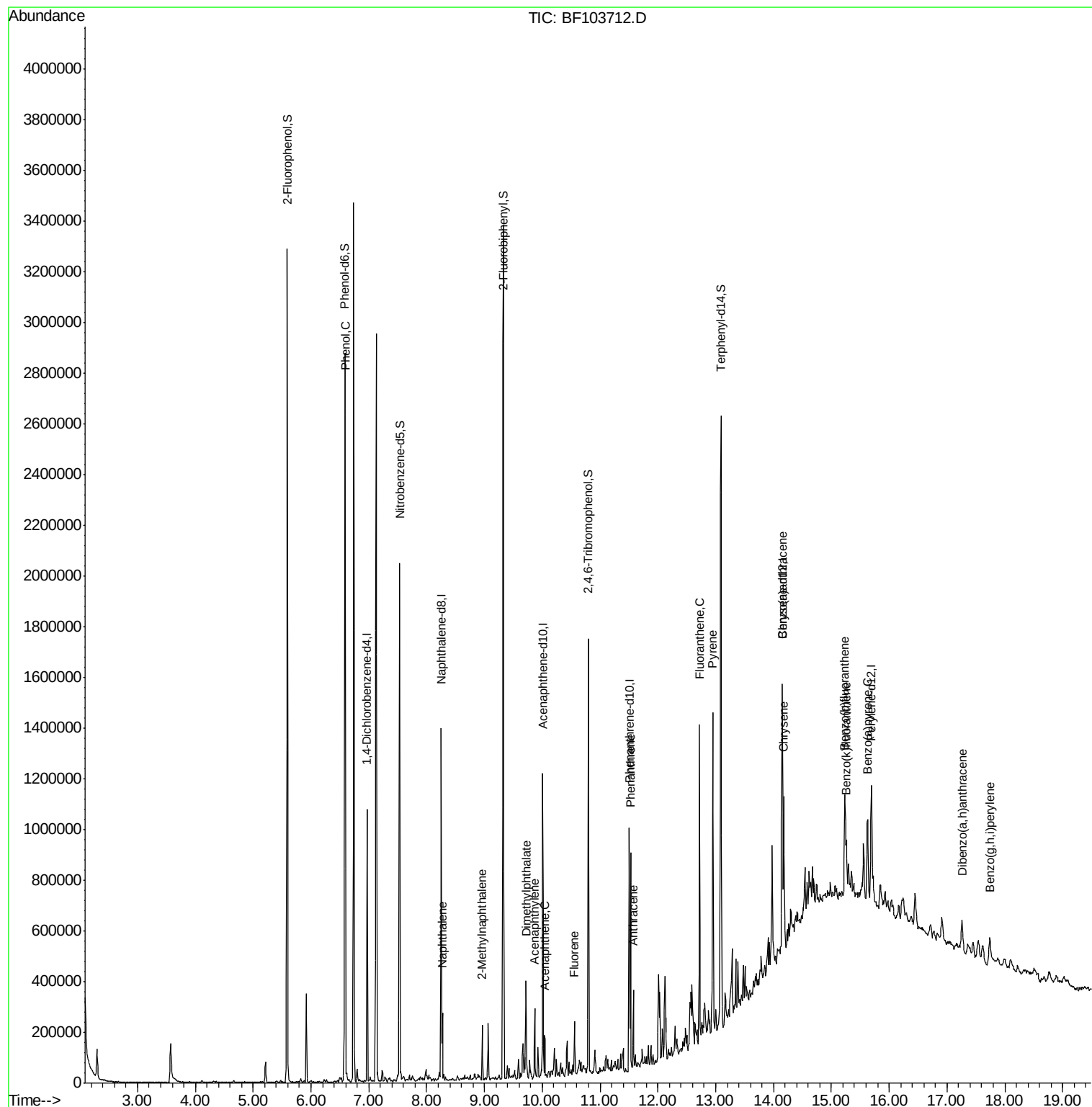
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF031618\
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ALS Vial : 15 Sample Multiplier: 1

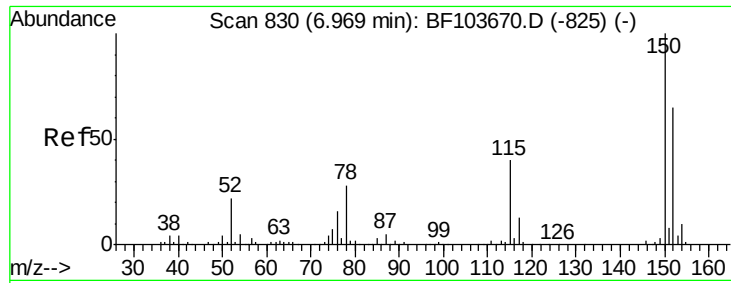
Instrument :
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ClientSampleId :
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Manual Integrations
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#1

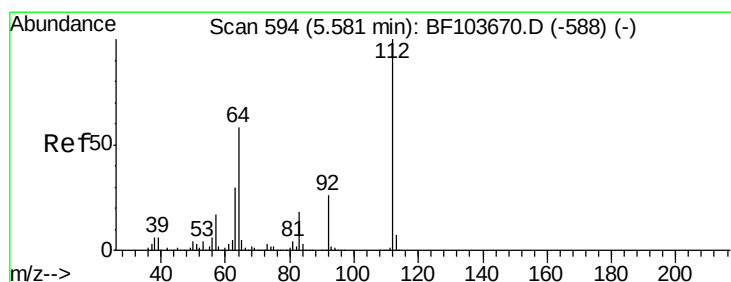
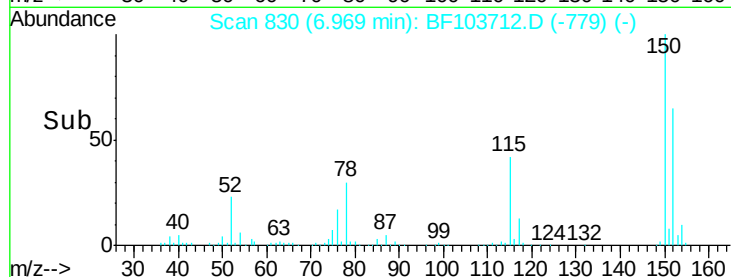
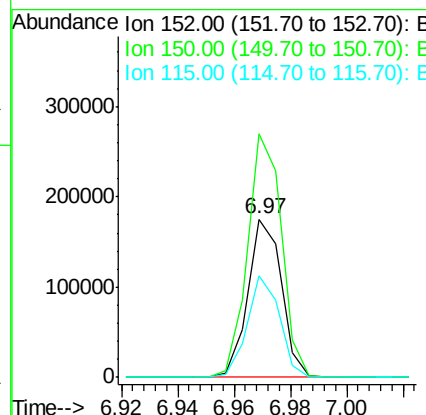
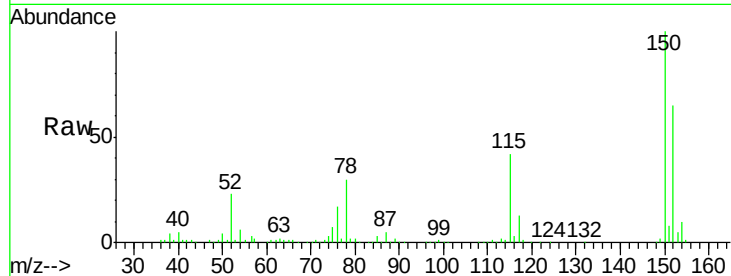
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.6	186.8
115	64.0	50.1	75.1

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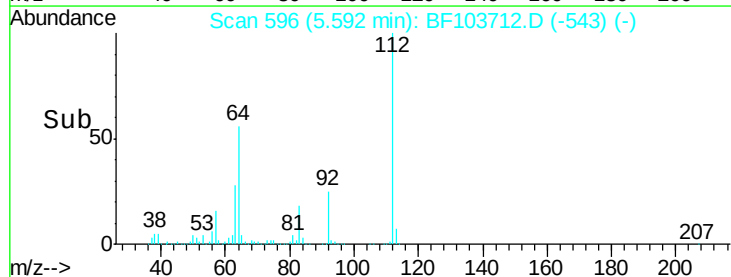
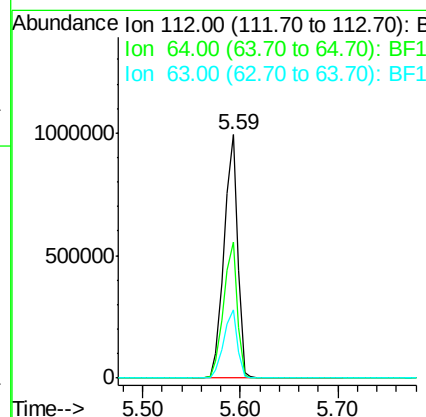
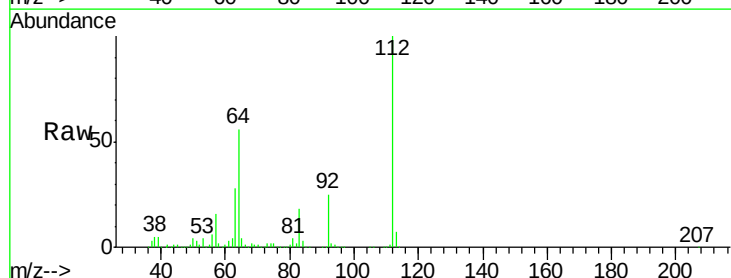
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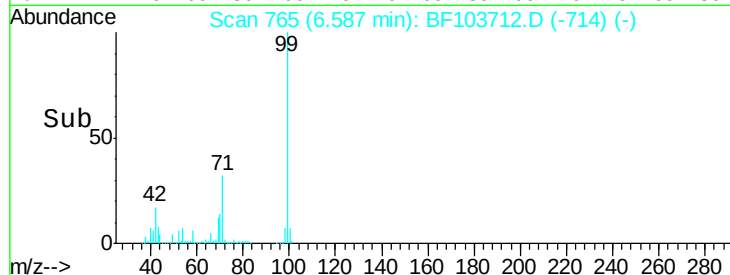
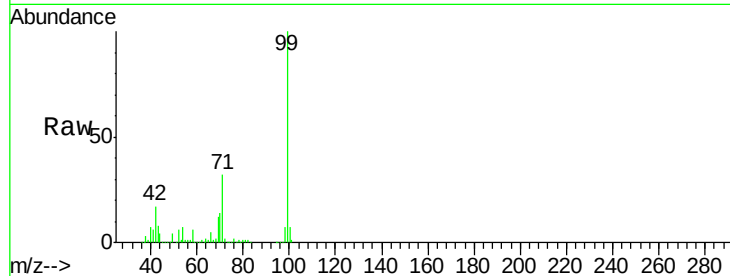
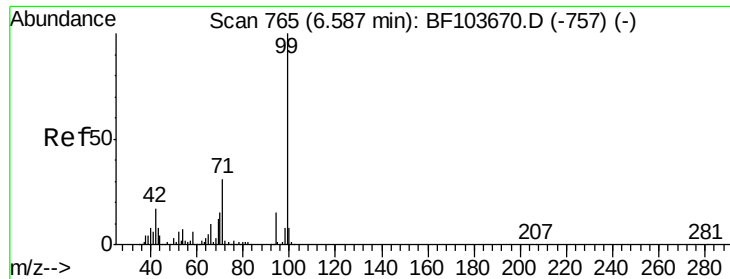


#5

2-Fluorophenol
Concen: 101.922 ng
RT: 5.59 min Scan# 596
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	47.9	71.9
63	28.2	23.7	35.5





#7

Phenol-d6

Concen: 99.556 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.00 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Tot Ion:	99	Resp:	1153892
Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.5	21.7
71	31.9	25.4	38.0

Instrument :

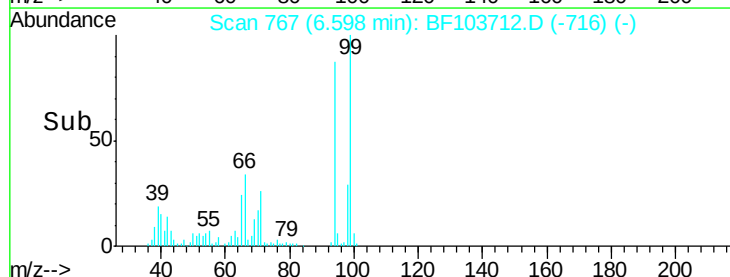
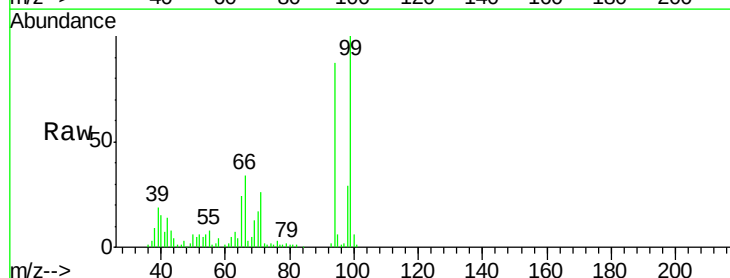
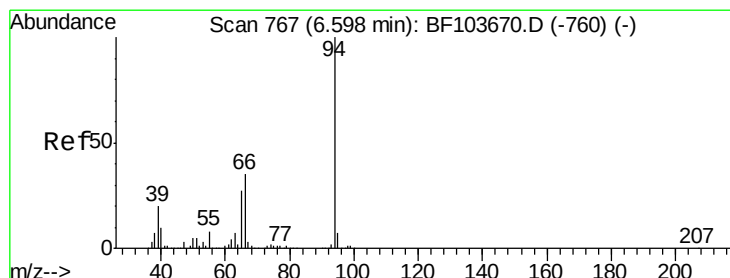
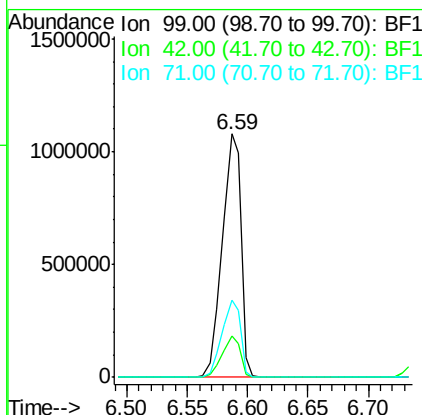
BNA_F

ClientSampleId :

OR-02-031518

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#10

Phenol

Concen: 3.385 ng

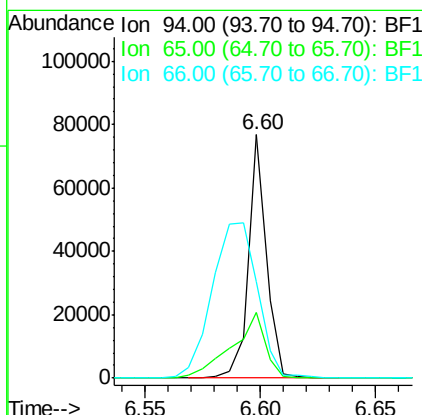
RT: 6.60 min Scan# 767

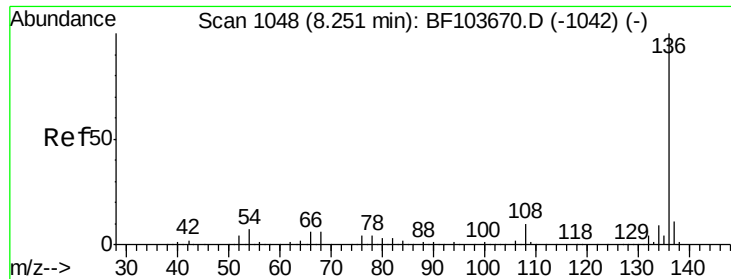
Delta R.T. -0.00 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Tgt Ion:	94	Resp:	41692
Ion	Ratio	Lower	Upper
94	100		
65	27.2	7.9	47.9
66	39.7	16.2	56.2





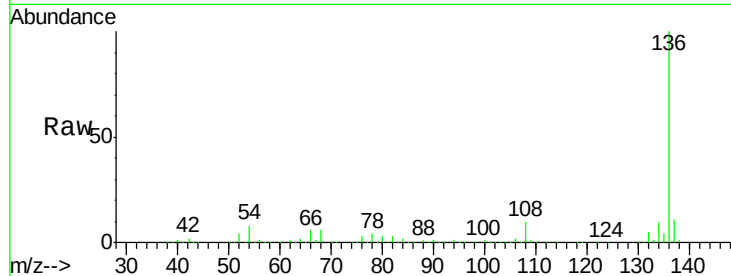
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.4		8.9	13.3	
54	7.9		6.6	9.8	
68	6.3		5.0	7.4	

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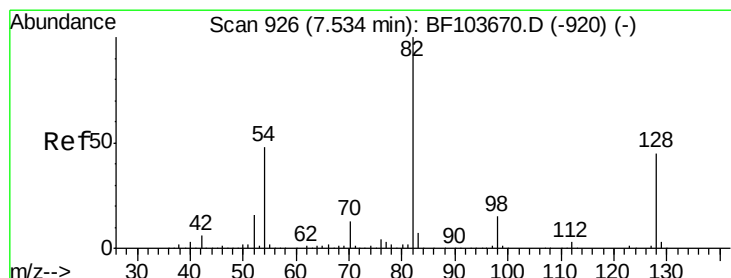
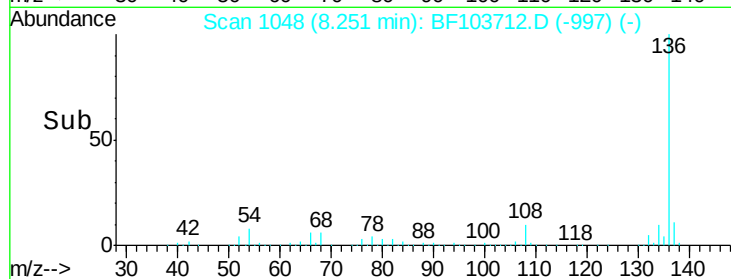
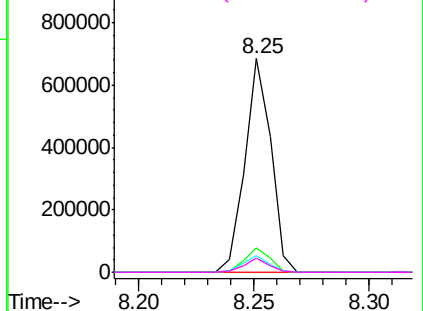
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

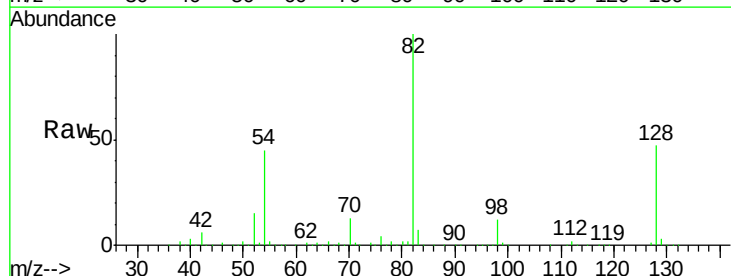
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23
Nitrobenzene-d5
Concen: 86.110 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	46.9		36.1	54.1	
54	44.8		41.4	62.2	

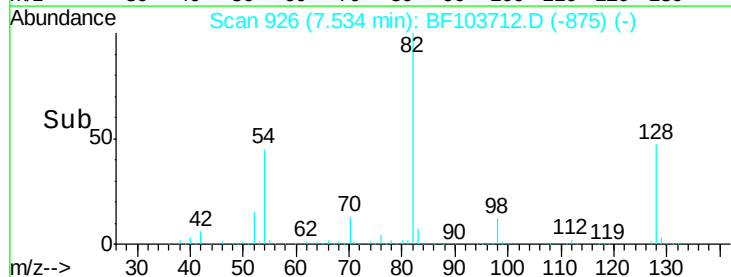
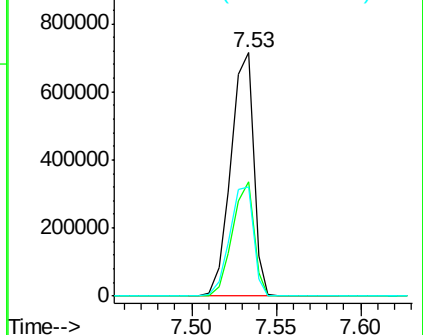


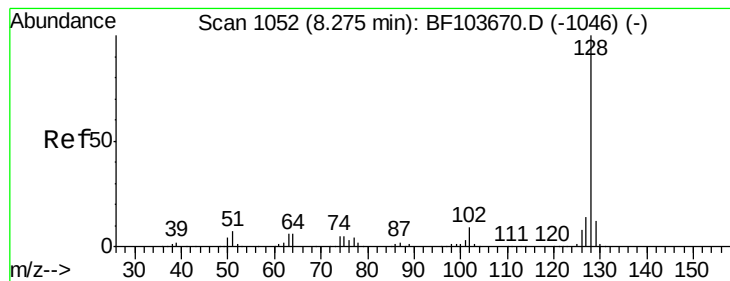
Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 3.604 ng

RT: 8.27 min Scan# 1052

Delta R.T. -0.00 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Instrument :

BNA_F

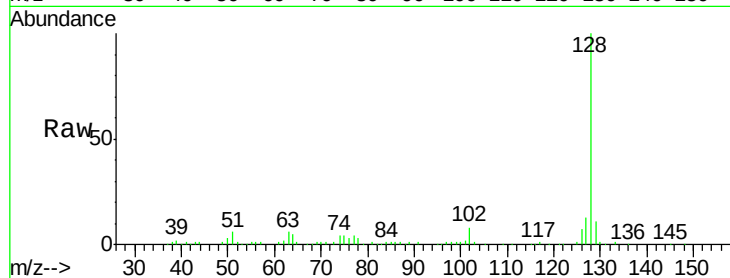
ClientSampleId :

OR-02-031518

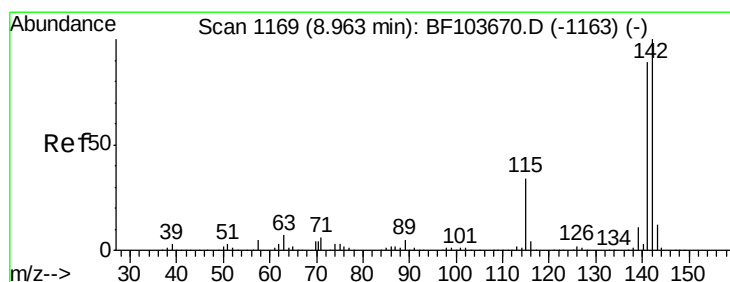
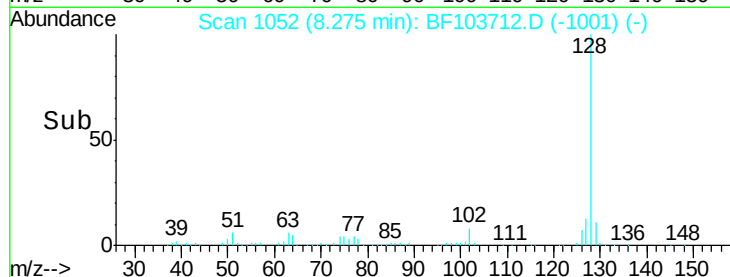
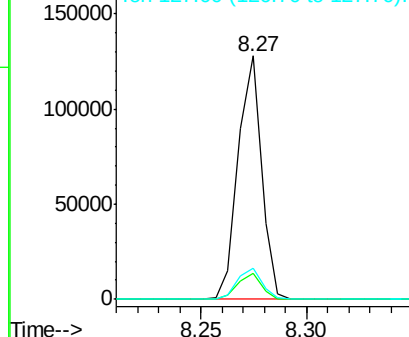
Tot Ion:	128	Resp:	98209
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	13.0	10.9	16.3

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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: 2.711 ng

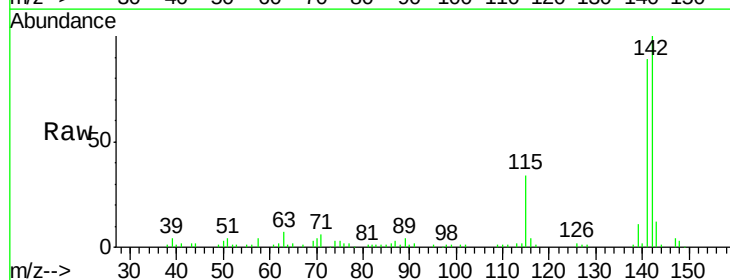
RT: 8.96 min Scan# 1169

Delta R.T. -0.00 min

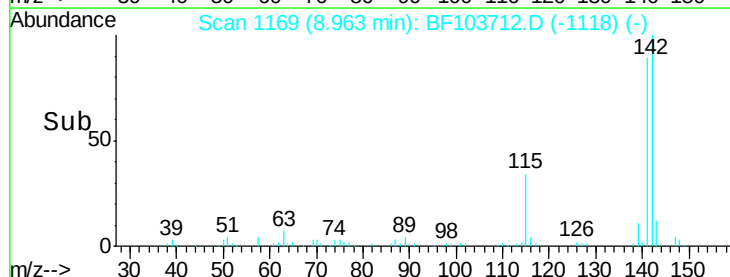
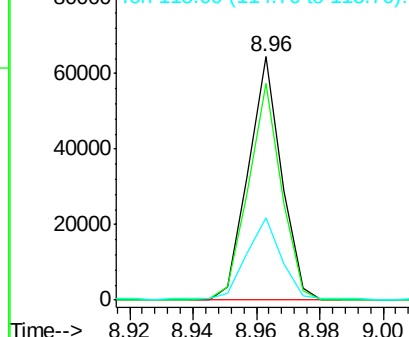
Lab File: BF103712.D

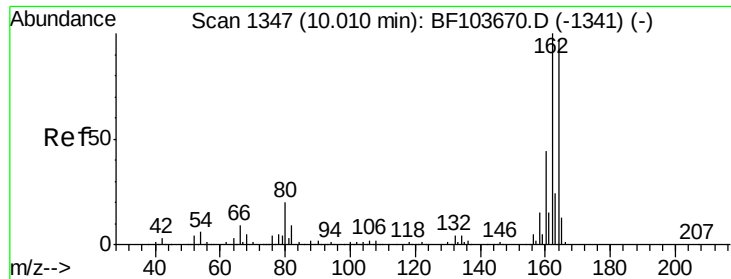
Acq: 16 Mar 2018 22:27

Tgt Ion:	142	Resp:	46852
Ion Ratio	Lower	Upper	
142	100		
141	89.1	70.8	106.2
115	34.0	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.00 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Instrument :

BNA_F

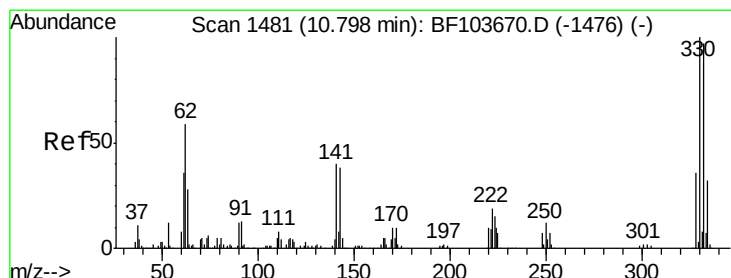
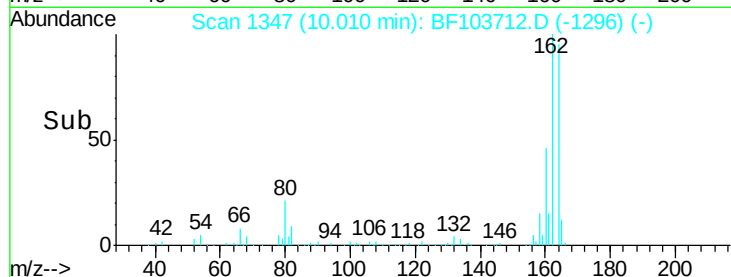
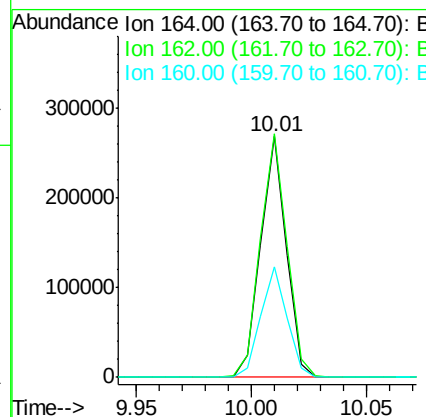
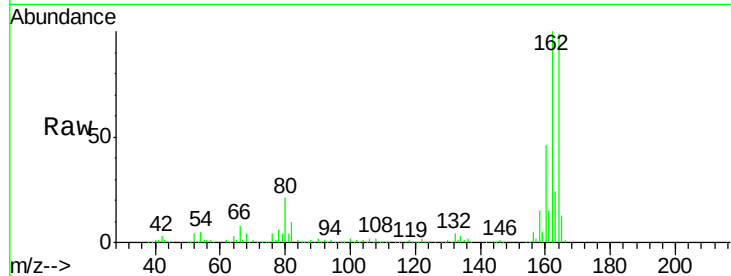
ClientSampleId :

OR-02-031518

Tot Ion:	164	Resp:	209473
Ion Ratio	Lower	Upper	
164	100		
162	101.2	86.1	129.1
160	46.2	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 98.347 ng

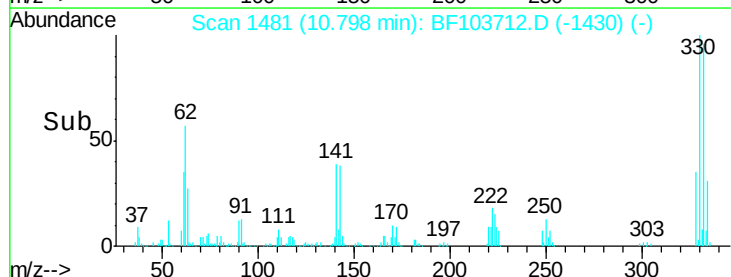
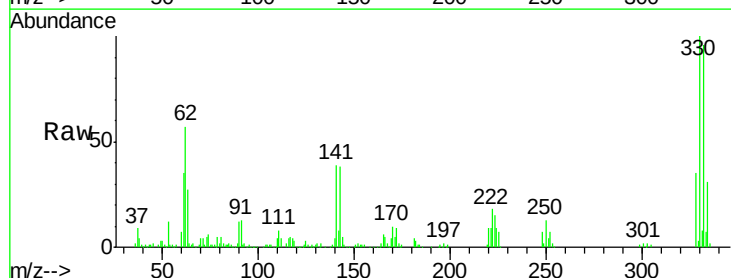
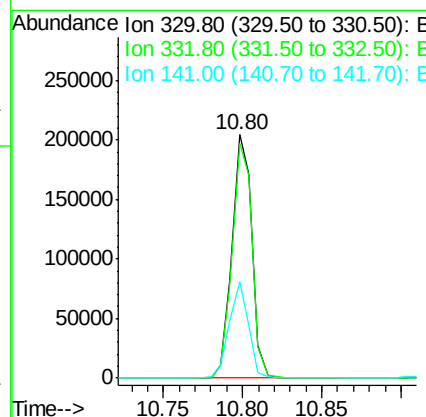
RT: 10.80 min Scan# 1481

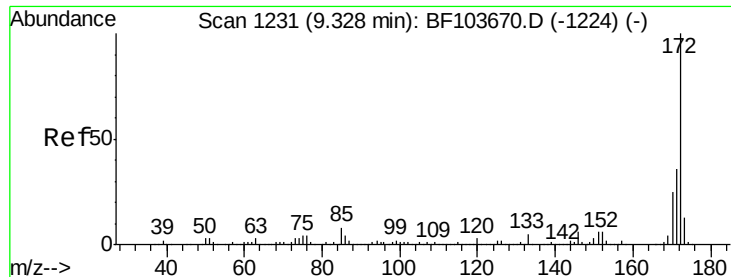
Delta R.T. -0.00 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Tgt Ion:	330	Resp:	177129
Ion Ratio	Lower	Upper	
330	100		
332	96.9	77.0	115.6
141	37.6	29.9	44.9





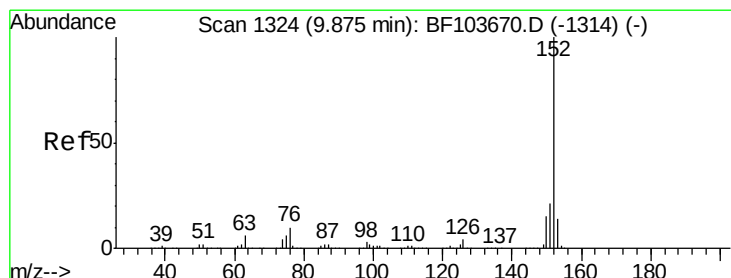
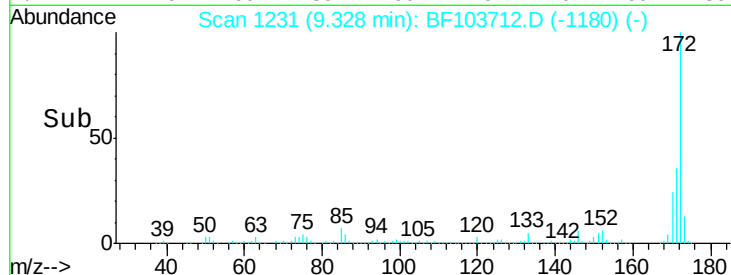
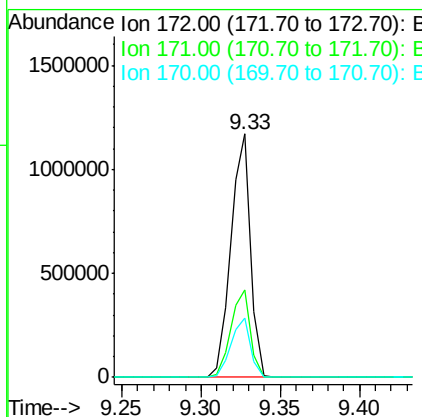
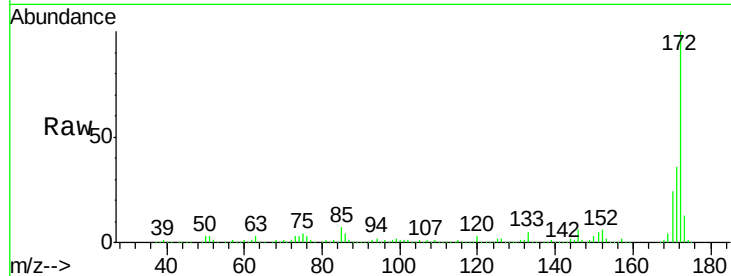
#44
2-Fluorobiphenyl
Concen: 76.028 ng
RT: 9.33 min Scan# 1231
Delta R.T. 0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Resp	Lower	Upper
172	100	998385		
171	36.1		29.7	44.5
170	24.3		19.6	29.4

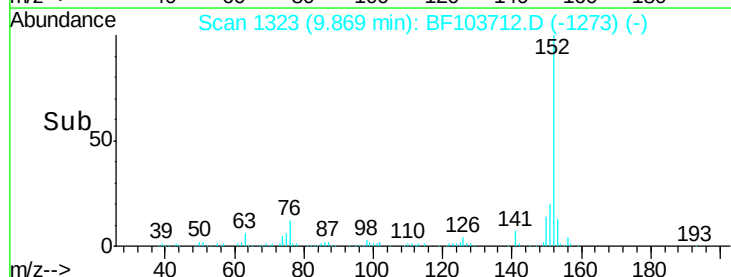
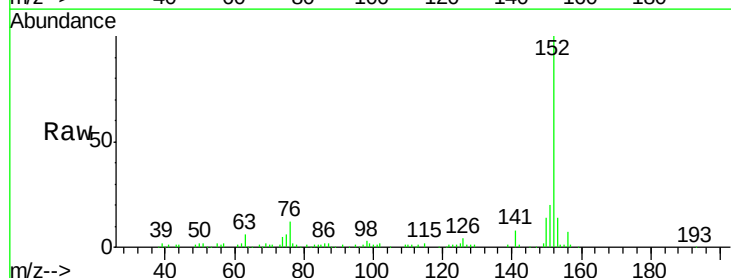
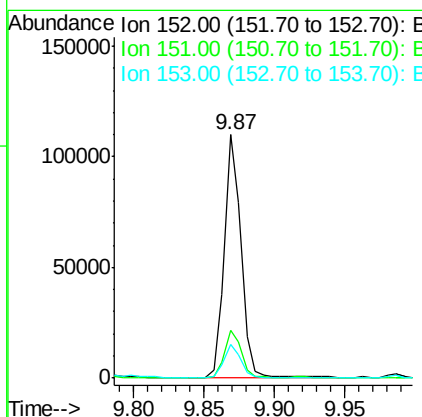
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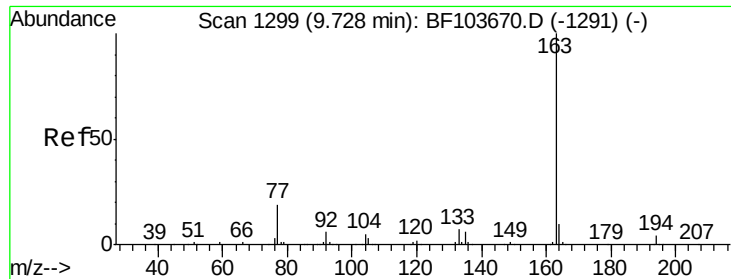
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#48
Acenaphthylene
Concen: 4.263 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	91702		
151	19.7		16.3	24.5
153	13.8		10.7	16.1





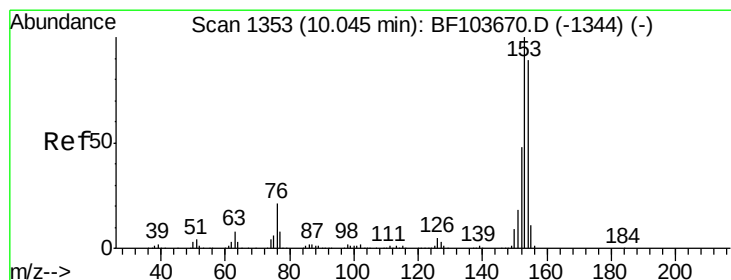
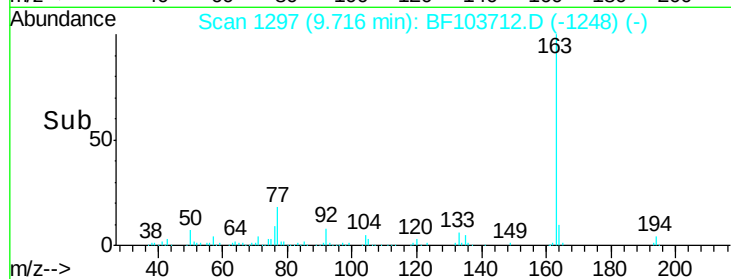
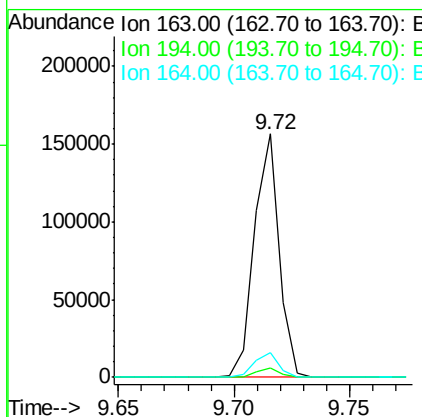
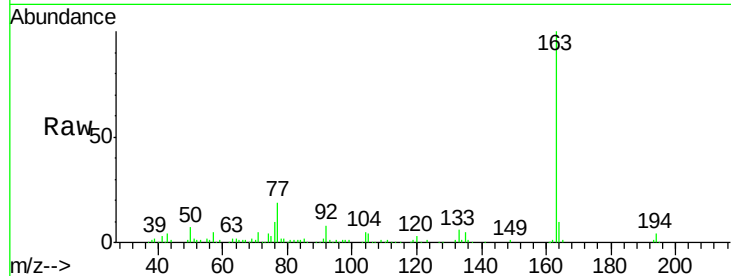
#49
Dimethylphthalate
Concen: 7.392 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Resp	Lower	Upper
163	100	118138		
194	3.7	2.7	4.1	
164	10.0	8.2	12.2	

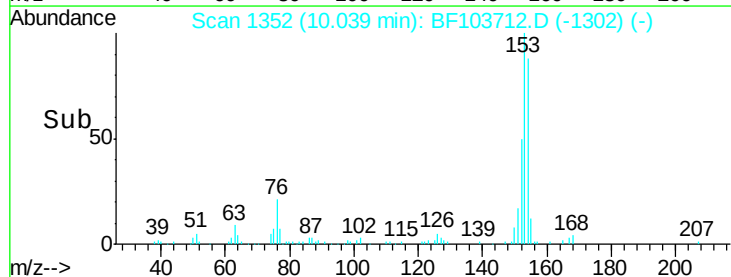
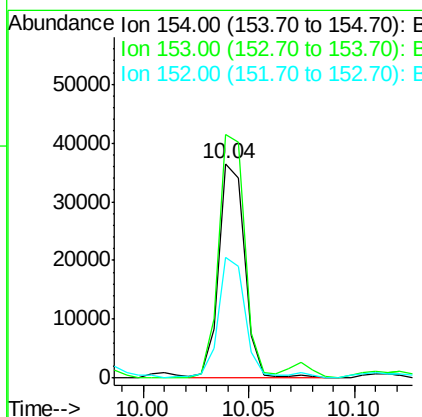
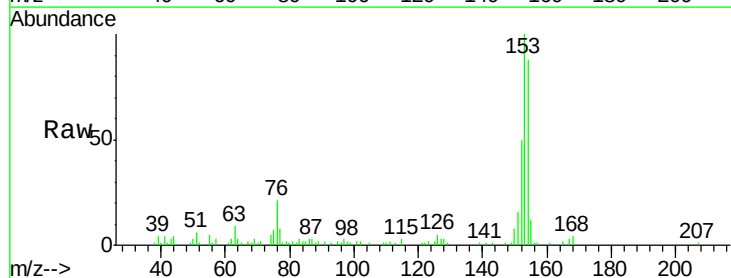
Manual Integrations
APPROVED

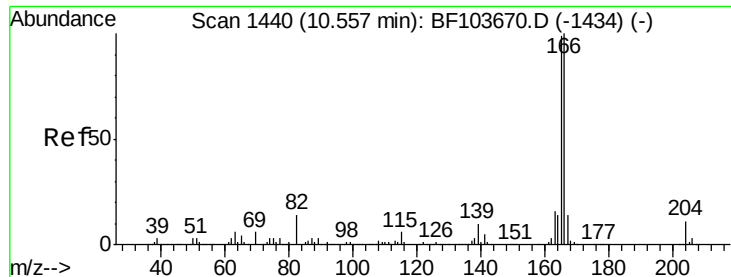
Sohil
3/19/2018 2:02:34 PM



#51
Acenaphthene
Concen: 2.461 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	31438		
153	113.4	91.2	136.8	
152	56.5	43.8	65.8	





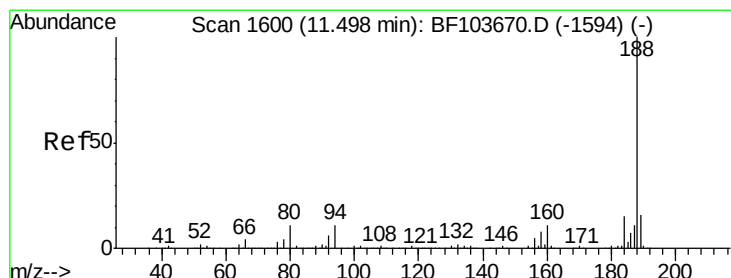
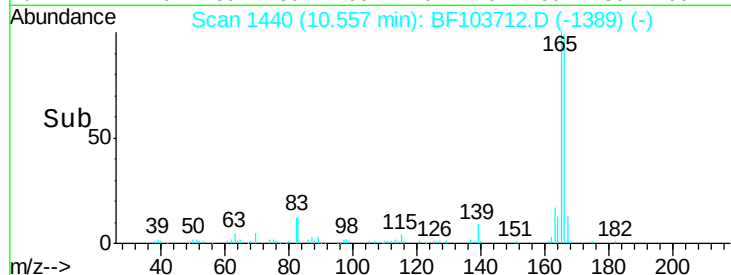
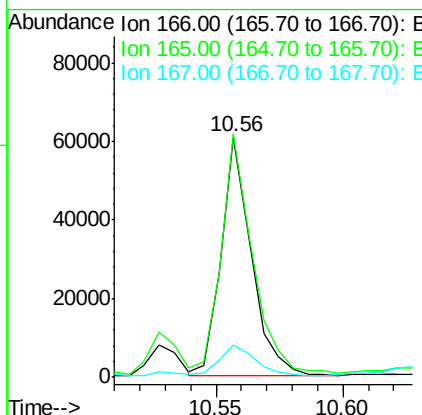
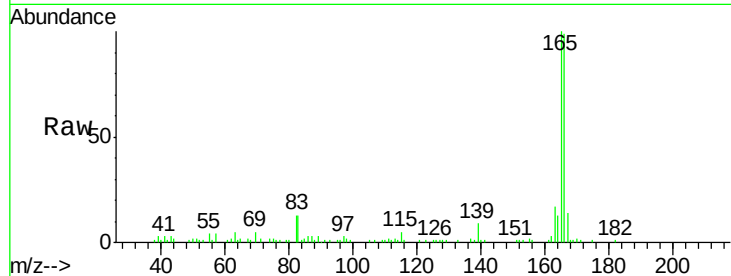
#57
 Fluorene
 Concen: 3.552 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: BF103712.D
 Acq: 16 Mar 2018 22:27

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-031518

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.8	119.8
167	13.7	10.6	16.0

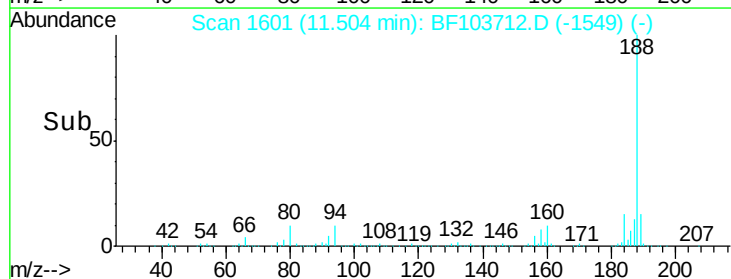
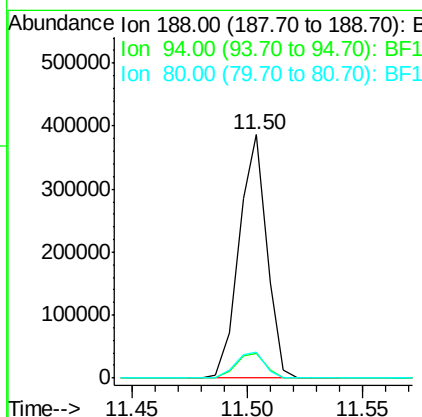
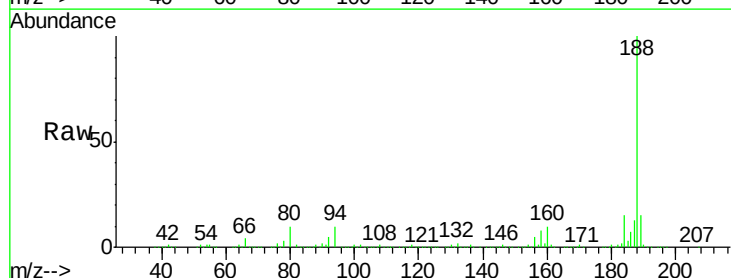
Manual Integrations
 APPROVED

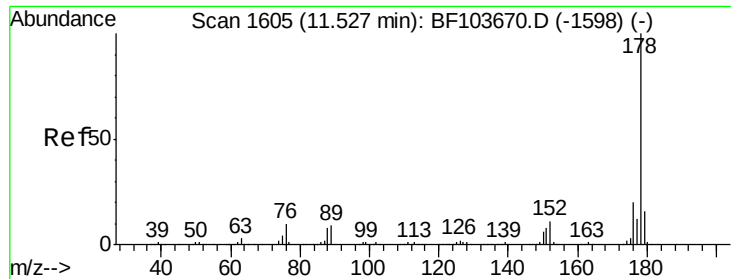
Sohil
 3/19/2018 2:02:34 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. 0.01 min
 Lab File: BF103712.D
 Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	10.4	9.2	13.8





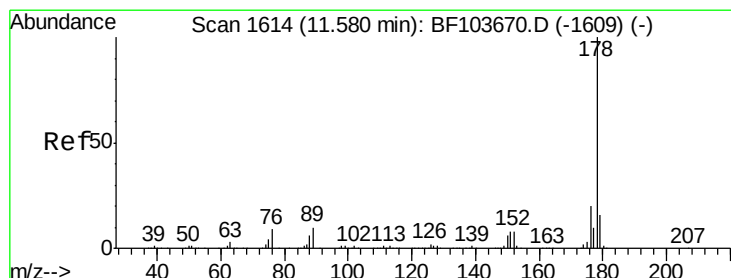
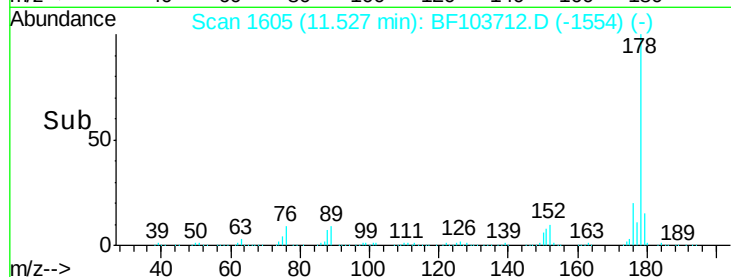
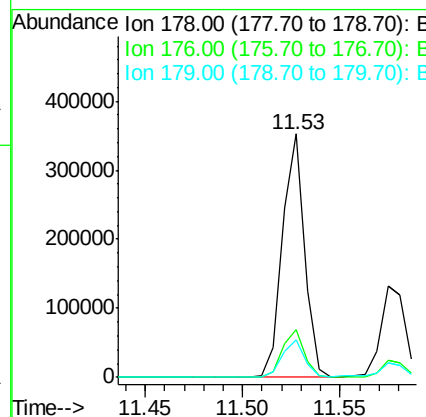
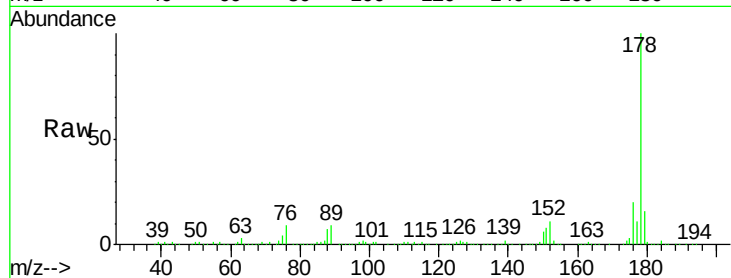
#70
Phenanthrene
Concen: 15.701 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.5	13.0	19.6

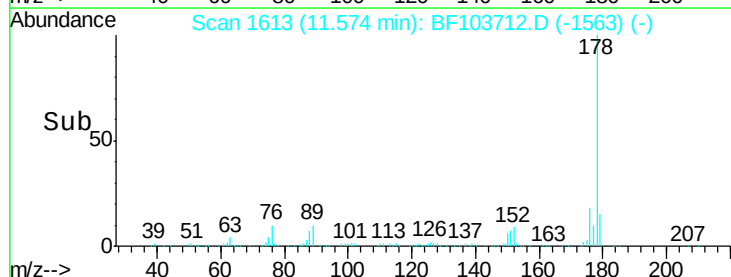
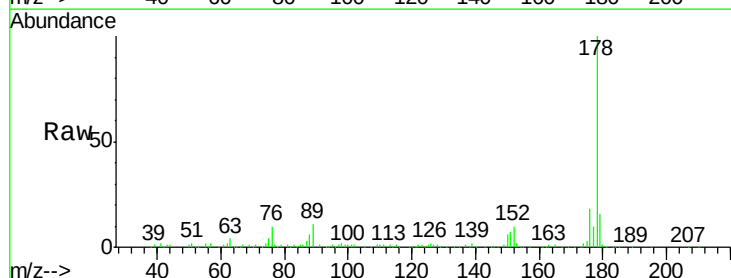
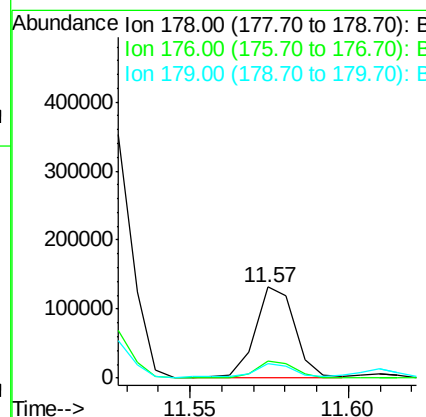
Manual Integrations
APPROVED

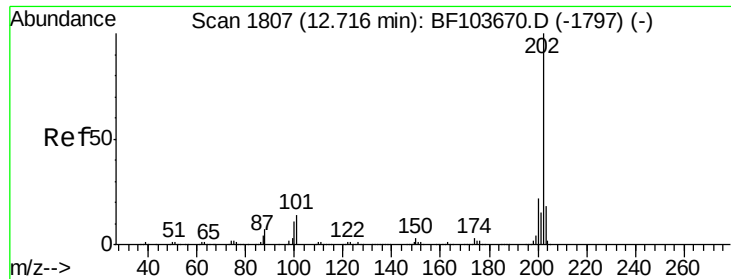
Sohil
3/19/2018 2:02:34 PM



#71
Anthracene
Concen: 6.268 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.9	12.6	19.0





#74

Fluoranthene

Concen: 24.092 ng

RT: 12.72 min Scan# 1808

Delta R.T. 0.01 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Instrument :

BNA_F

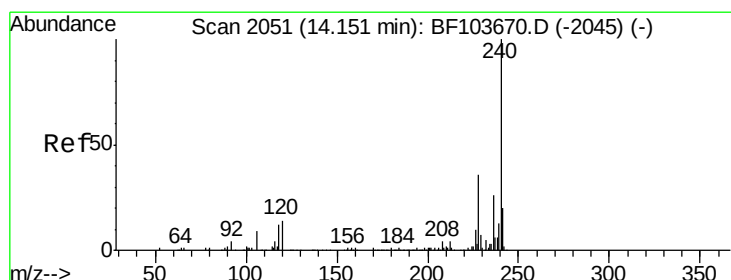
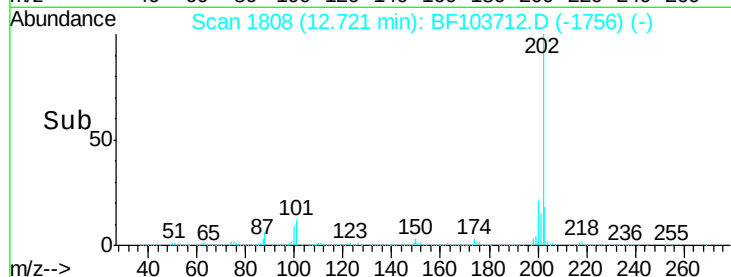
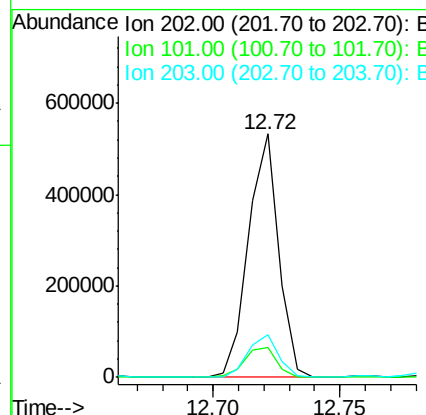
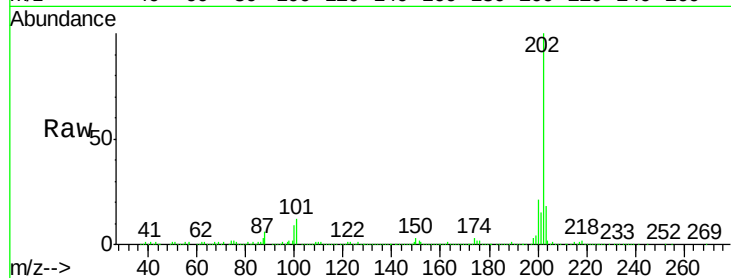
ClientSampleId :

OR-02-031518

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.5	0.0	34.1
203	17.6	0.0	38.1

Manual Integrations
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Sohil
3/19/2018 2:02:34 PM



#75

Chrysene-d12

Concen: 20.000 ng

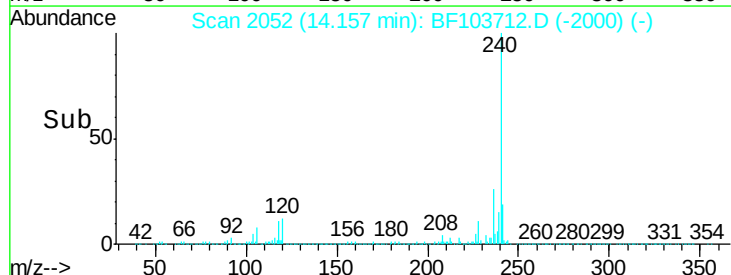
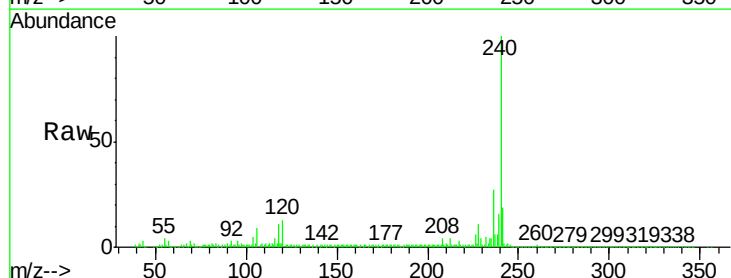
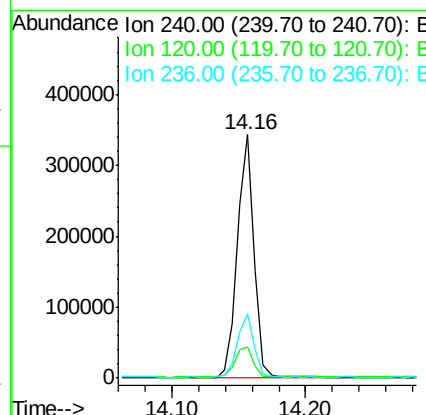
RT: 14.16 min Scan# 2052

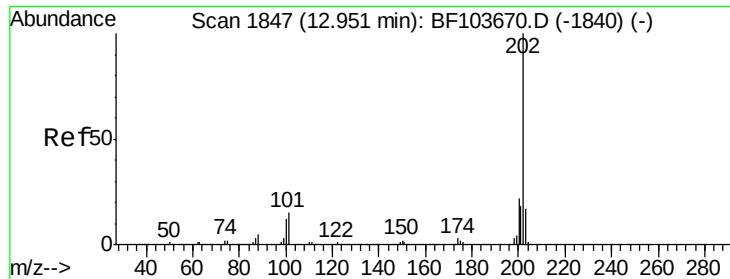
Delta R.T. 0.01 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.6	9.5	14.3
236	26.5	20.7	31.1





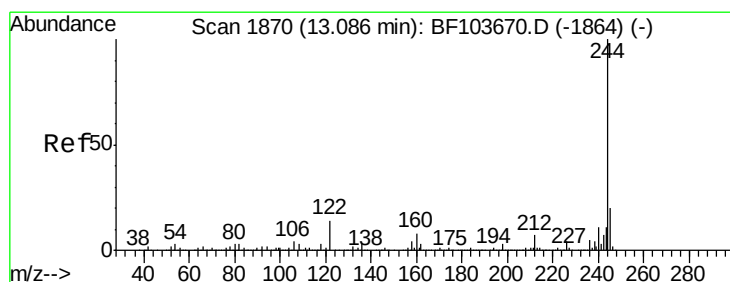
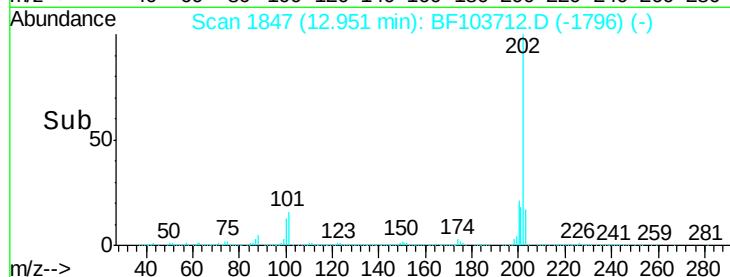
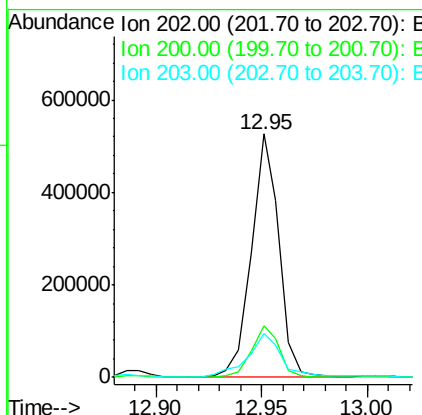
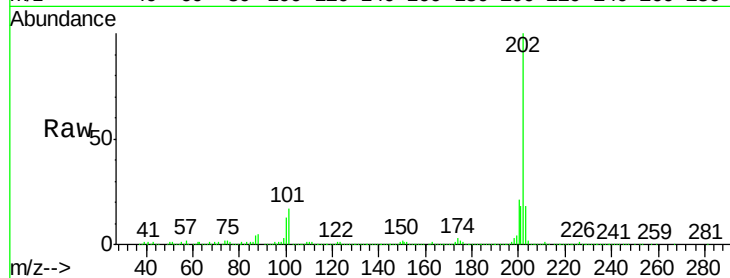
#77
Pvrene
Concen: 21.444 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	18.0	14.3	21.5

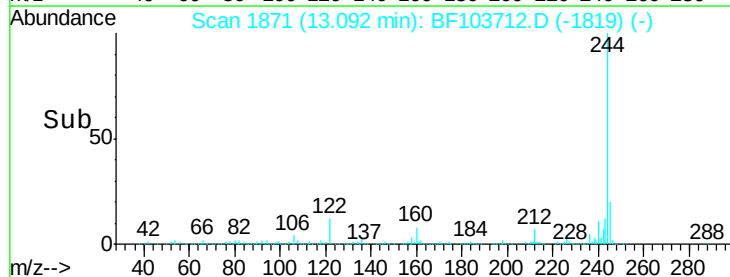
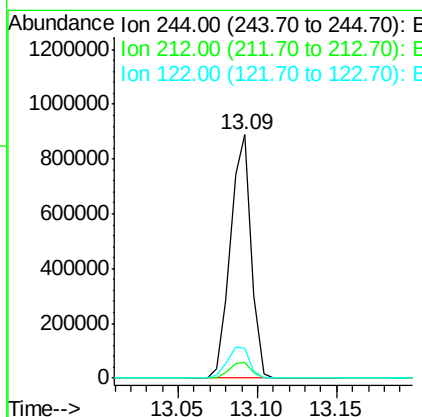
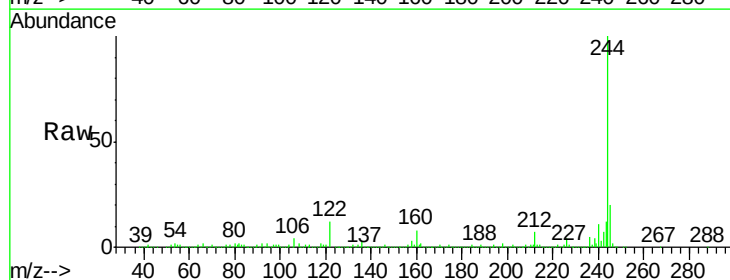
Manual Integrations
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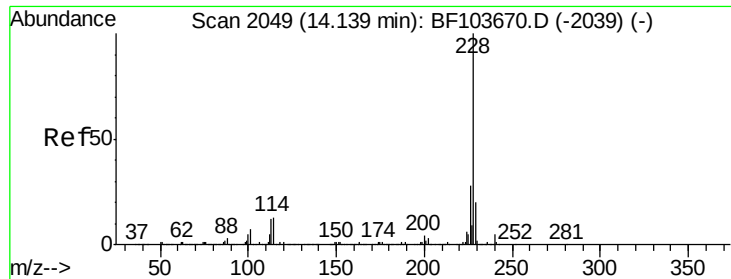
Sohil
3/19/2018 2:02:34 PM



#78
Terphenyl-d14
Concen: 62.114 ng
RT: 13.09 min Scan# 1871
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	12.4	11.0	16.4





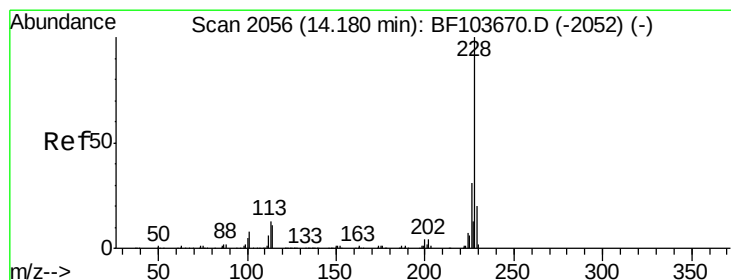
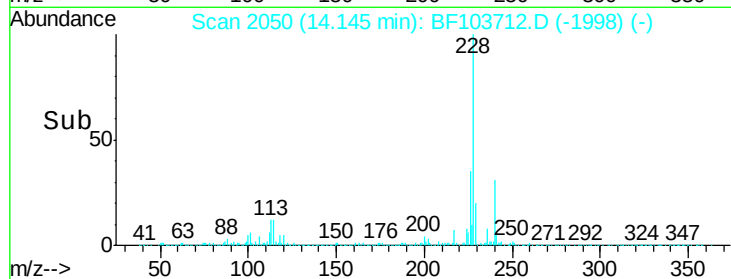
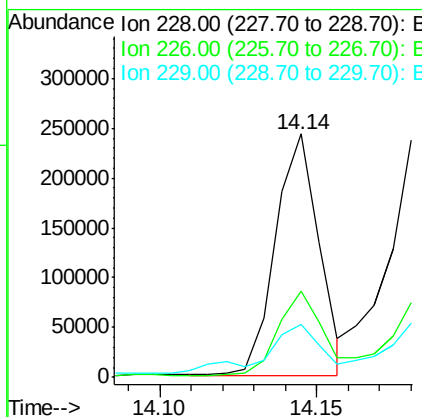
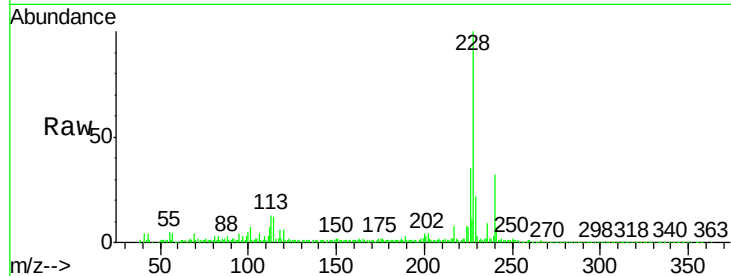
#80
Benzo(a)anthracene
Concen: 12.398 ng m
RT: 14.14 min Scan# 2050
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
228	100		
226	35.4	22.6	33.8#
229	21.6	15.8	23.6

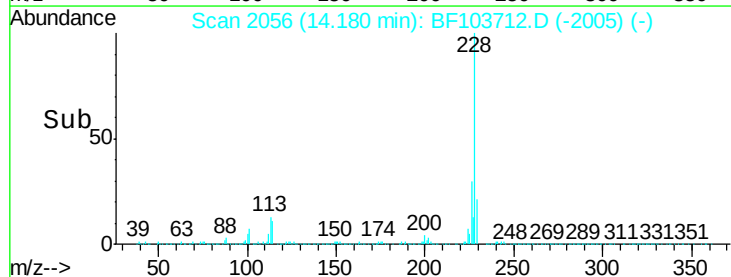
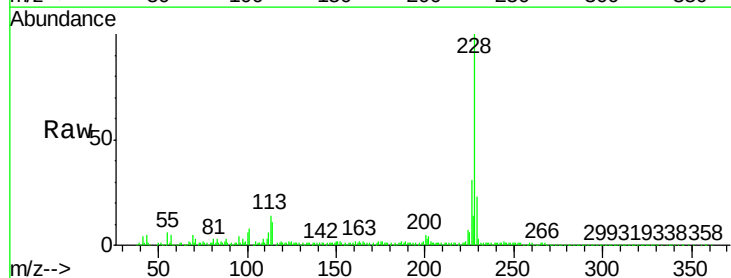
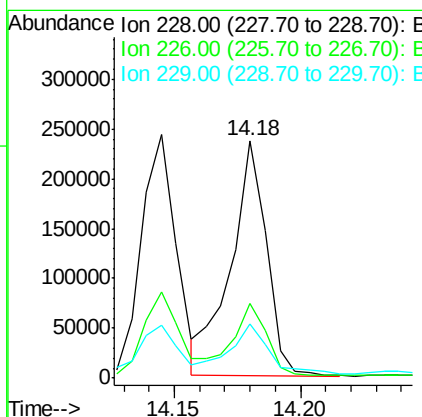
Manual Integrations
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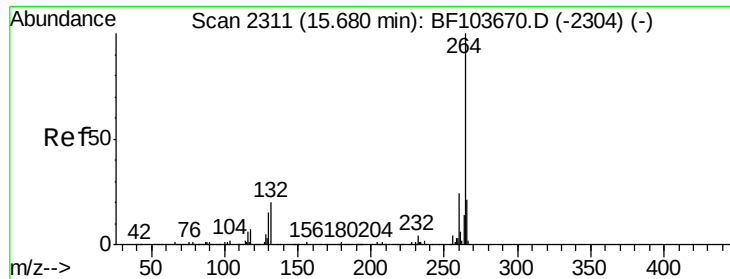
Sohil
3/19/2018 2:02:34 PM



#82
Chrysene
Concen: 12.836 ng m
RT: 14.18 min Scan# 2056
Delta R.T. -0.00 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	22.9	16.2	24.4





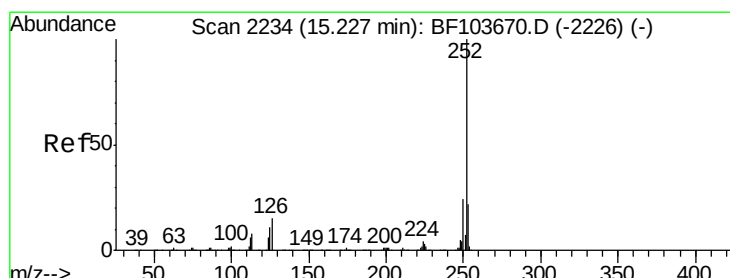
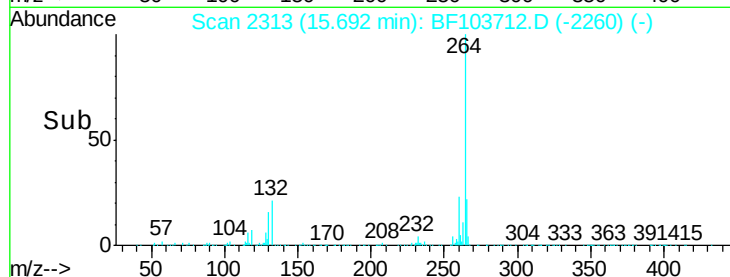
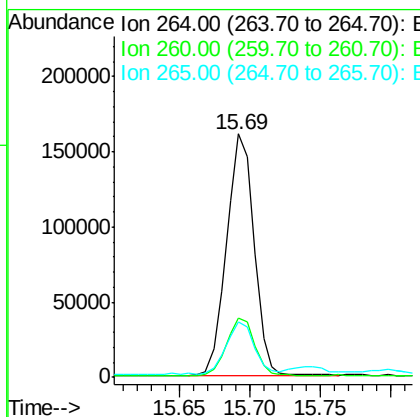
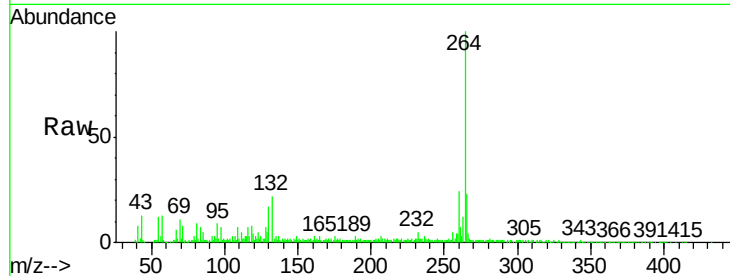
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.9	17.5	26.3

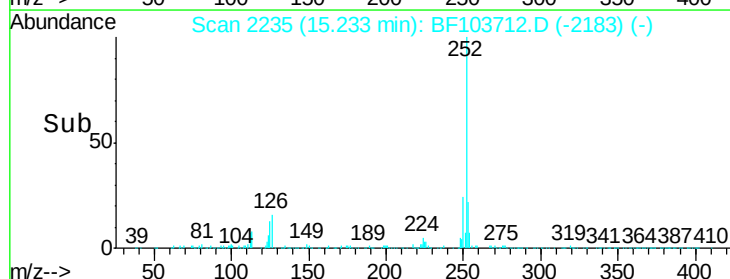
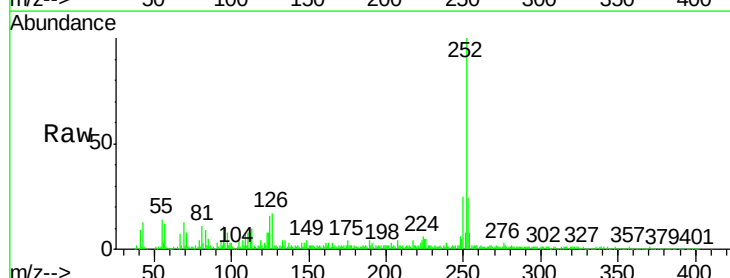
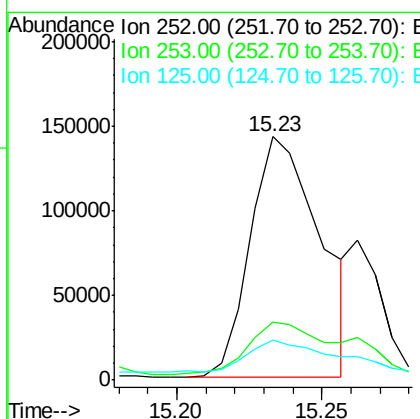
Manual Integrations
APPROVED

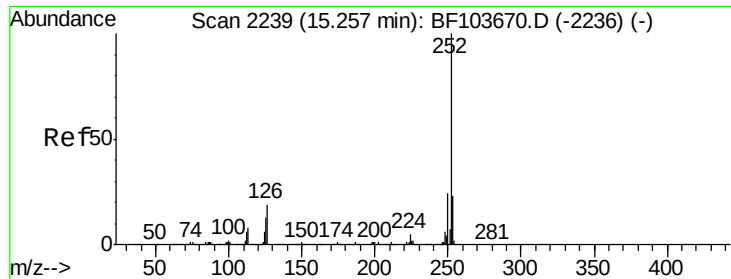
Sohil
3/19/2018 2:02:34 PM



#87
Benzo(b)fluoranthene
Concen: 17.090 ng m
RT: 15.23 min Scan# 2235
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.6
125	16.3	9.0	13.6#





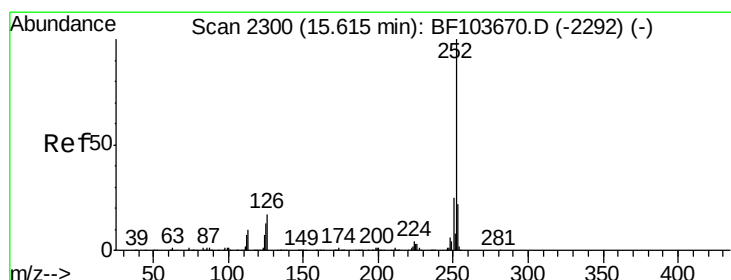
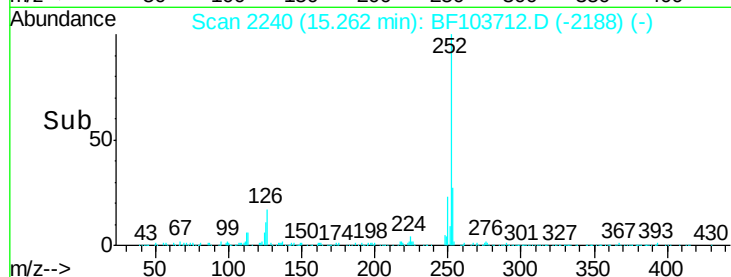
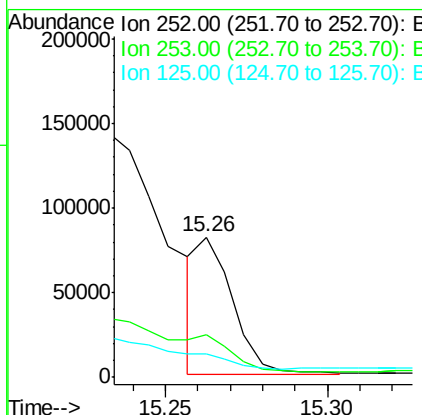
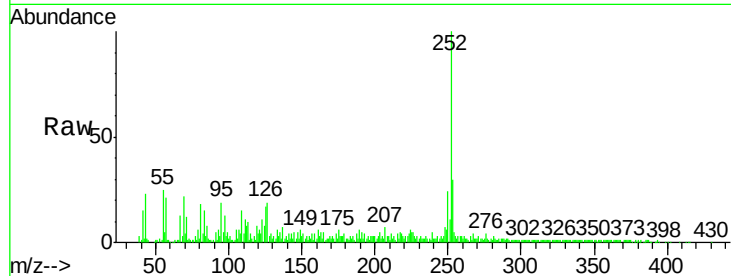
#88
Benzo(k)fluoranthene
Concen: 4.689 ng m
RT: 15.26 min Scan# 2240
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Instrument :
BNA_F
ClientSampleId :
OR-02-031518

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.3	17.9	26.9#
125	17.0	10.2	15.2#

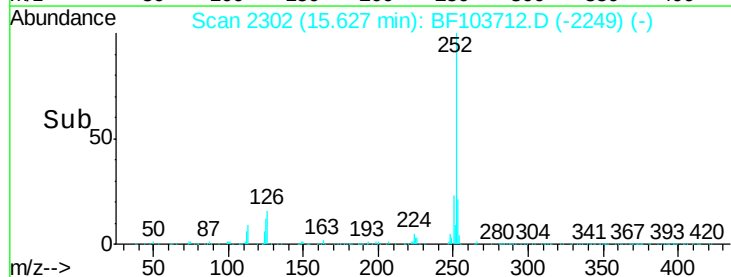
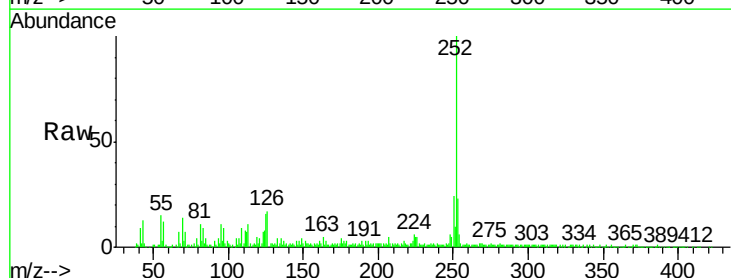
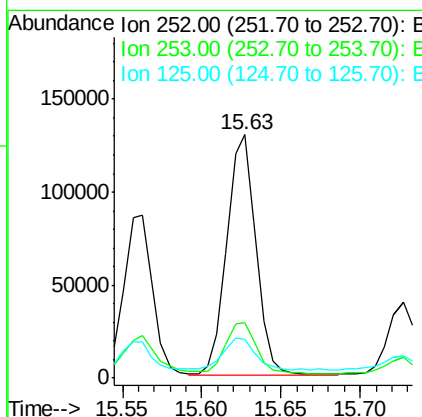
Manual Integrations
APPROVED

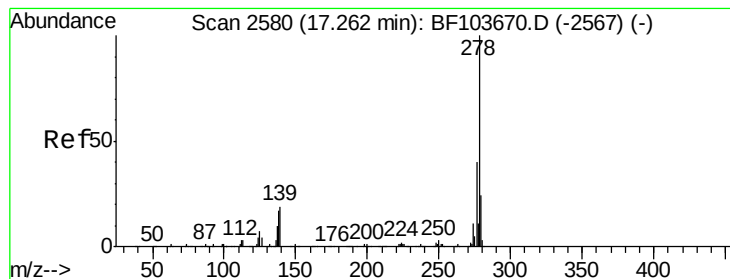
Sohil
3/19/2018 2:02:34 PM



#89
Benzo(a)pyrene
Concen: 12.963 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.01 min
Lab File: BF103712.D
Acq: 16 Mar 2018 22:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	15.9	9.8	14.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.020 ng

RT: 17.27 min Scan# 2581

Delta R.T. 0.01 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Instrument :

BNA_F

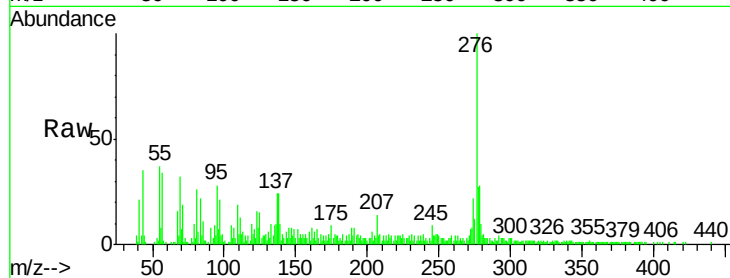
ClientSampleId :

OR-02-031518

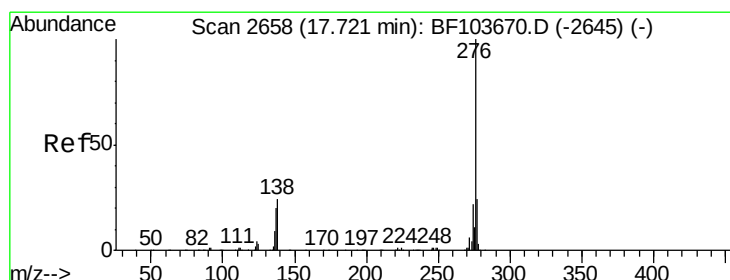
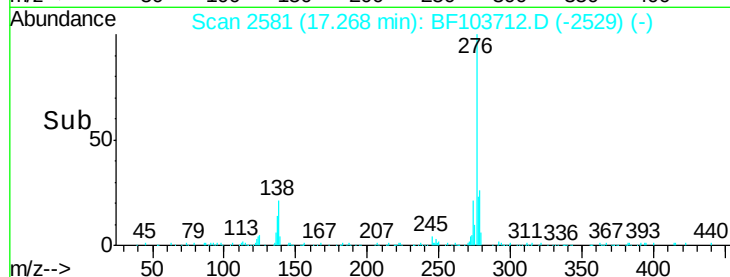
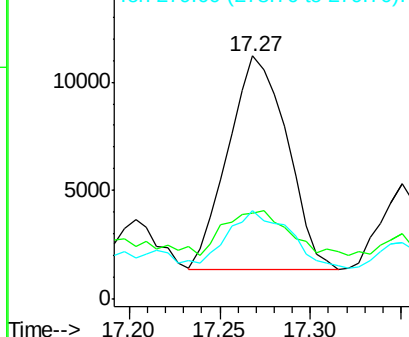
Tot Ion:	278	Resp:	22153
Ion Ratio	Lower	Upper	
278	100		
139	35.6	15.9	23.9#
279	36.2	19.0	28.4#

Manual Integrations
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Sohil
3/19/2018 2:02:34 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.915 ng

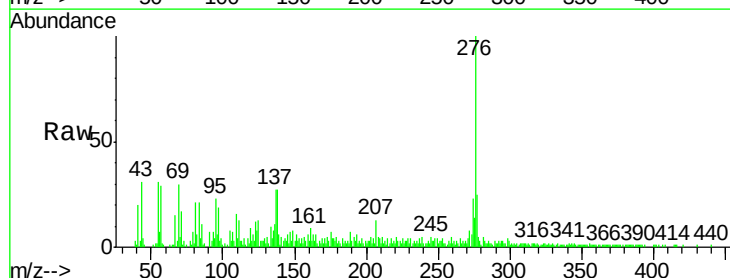
RT: 17.74 min Scan# 2661

Delta R.T. 0.02 min

Lab File: BF103712.D

Acq: 16 Mar 2018 22:27

Tgt Ion:	276	Resp:	84439
Ion Ratio	Lower	Upper	
276	100		
277	25.0	17.9	26.9
138	26.6	21.8	32.8



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

