

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF032018\
 Data File : BF103808.D
 Acq On : 20 Mar 2018 17:58
 Operator : JU/SJ
 Sample : J1982-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-114(4-5)

Manual Integrations
 APPROVED

Sohil
 3/22/2018 12:57:35 PM

Quant Time: Mar 21 01:32:16 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	161505	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	637428	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	283770	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	447619	20.00	ng	0.01
75) Chrysene-d12	14.17	240	245276	20.00	ng	0.02
86) Perylene-d12	15.72	264	258530	20.00	ng	0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	1226569	115.51	ng	0.02
7) Phenol-d6	6.60	99	1598847	123.07	ng	0.01
23) Nitrobenzene-d5	7.54	82	940700	102.91	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	276510	113.33	ng	0.01
44) 2-Fluorobiphenyl	9.33	172	1344209	75.56	ng	0.00
78) Terphenyl-d14	13.10	244	1036043	98.04	ng	0.02

Target Compounds					Qvalue	
31) Naphthalene	8.29	128	2797742	86.888	ng	99
37) 2-Methylnaphthalene	8.97	142	572743	28.049	ng	99
45) 1,1'-Biphenyl	9.43	154	153318	6.479	ng	100
48) Acenaphthylene	9.88	152	761379	26.125	ng	100
49) Dimethylphthalate	9.72	163	157189	7.260	ng	99
51) Acenaphthene	10.05	154	183332	10.594	ng	98
54) Dibenzofuran	10.22	168	205530	8.316	ng	97
57) Fluorene	10.56	166	504567	26.310	ng	98
70) Phenanthrene	11.54	178	2113653	86.322	ng	99
71) Anthracene	11.59	178	940751	37.828	ng	99
72) Carbazole	11.74	167	189565	7.842	ng	99
74) Fluoranthene	12.74	202	2298401	91.113	ng	98
77) Pvrene	12.97	202	2316835	128.621	ng	99
80) Benzo(a)anthracene	14.16	228	1366536m	88.016	ng	
82) Chrysene	14.20	228	1123032	75.880	ng	98
85) Indeno(1,2,3-cd)pyrene	17.31	276	619426	47.925	ng	94
87) Benzo(b)fluoranthene	15.27	252	1595398m	97.678	ng	
88) Benzo(k)fluoranthene	15.29	252	407418m	25.949	ng	
89) Benzo(a)pvrene	15.66	252	1187638	80.168	ng	96
90) Dibenzo(a,h)anthracene	17.32	278	170351	13.280	ng	93
91) Benzo(g,h,i)perylene	17.79	276	561410	44.987	ng	98

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

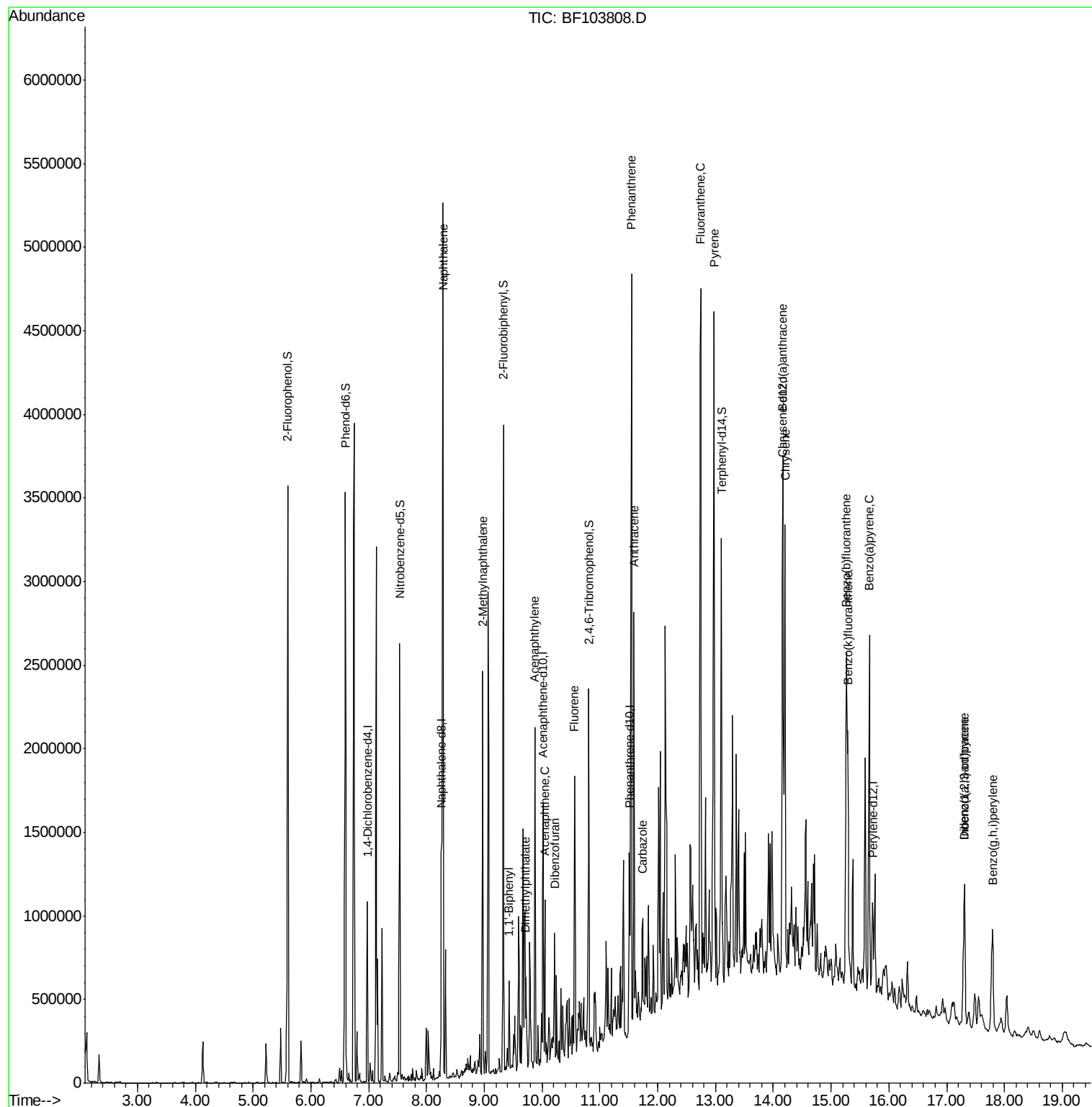
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF032018\
Data File : BF103808.D
Acq On : 20 Mar 2018 17:58
Operator : JU/SJ
Sample : J1982-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

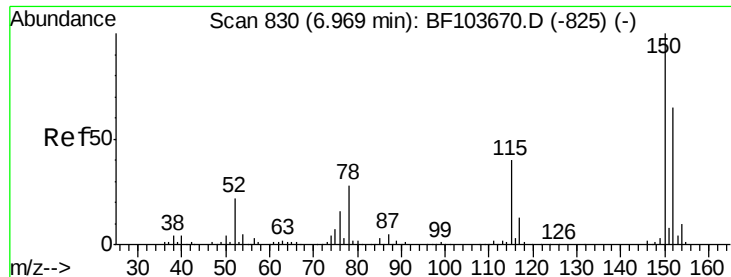
Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Manual Integrations
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Quant Time: Mar 21 01:32:16 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

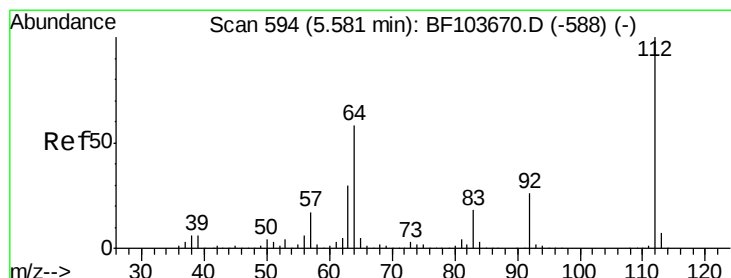
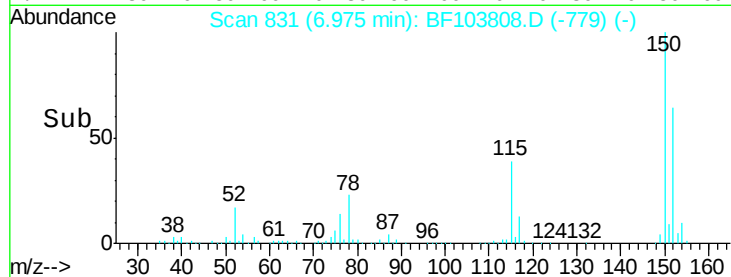
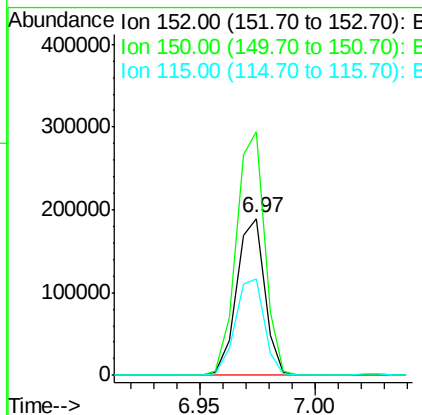
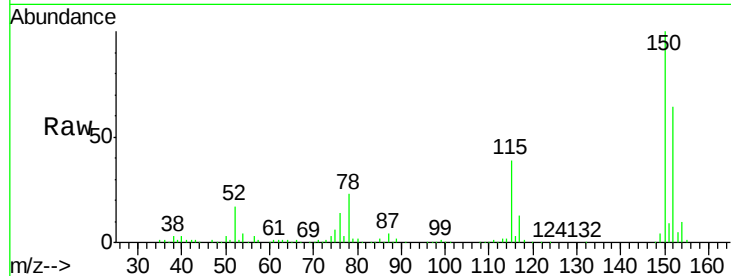
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.6	186.8
115	61.0	50.1	75.1

Manual Integrations
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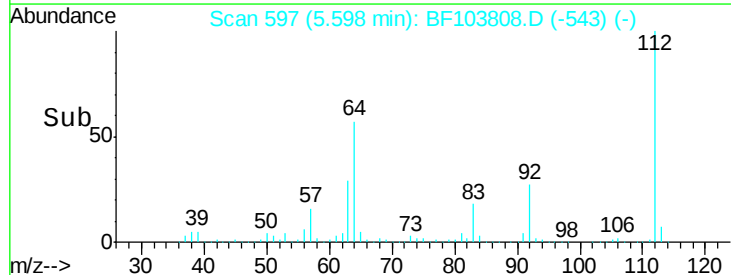
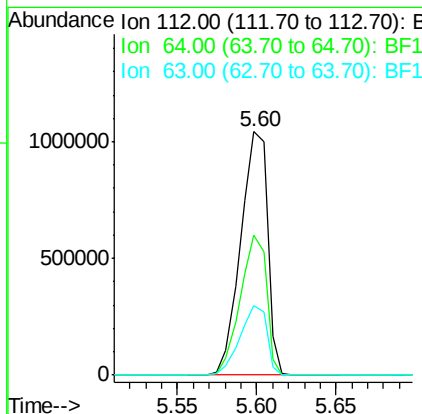
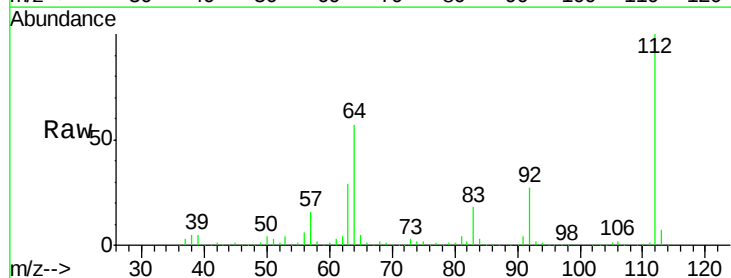
Sohil
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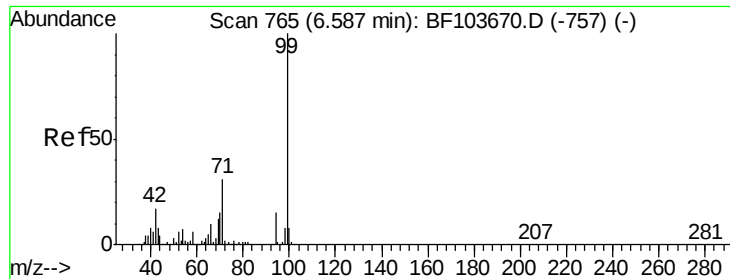


#5

2-Fluorophenol
Concen: 115.514 ng
RT: 5.60 min Scan# 597
Delta R.T. 0.02 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	47.9	71.9
63	28.7	23.7	35.5





#7

Phenol-d6

Concen: 123.075 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

ClientSampleId :

SB-114(4-5)

Tot Ion: 99 Resp: 1598847

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

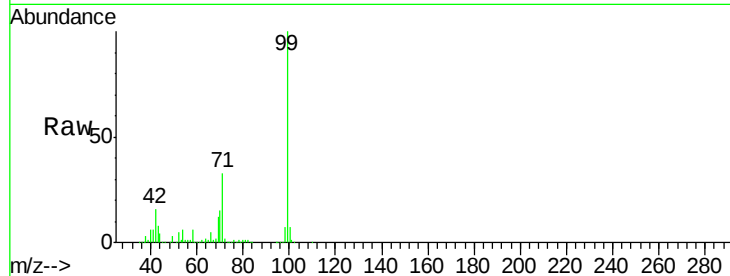
71 32.7 25.4 38.0

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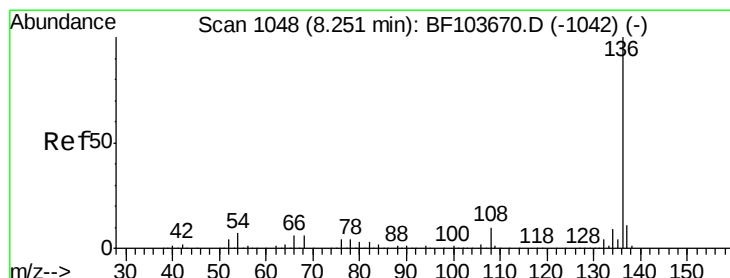
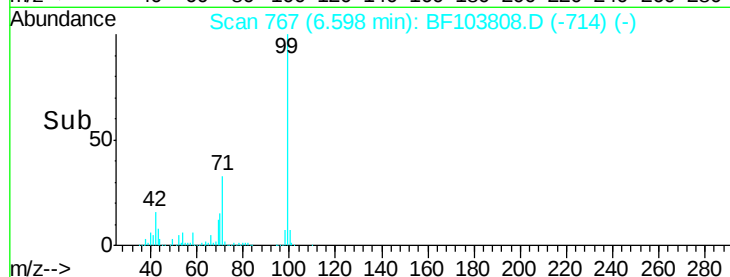
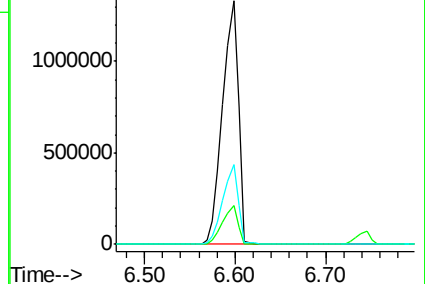
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion: 136 Resp: 637428

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.1 6.6 9.8

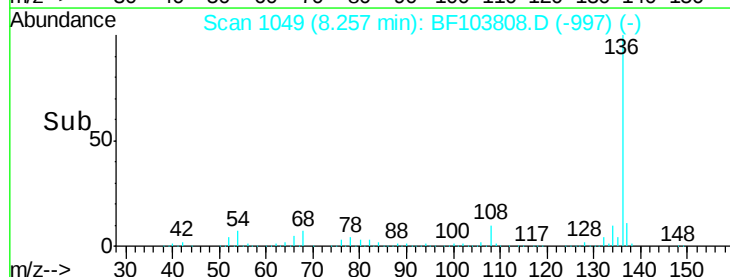
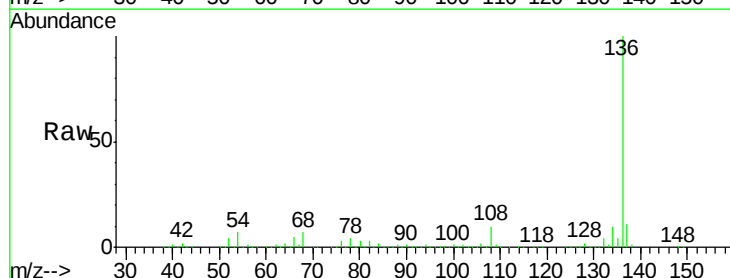
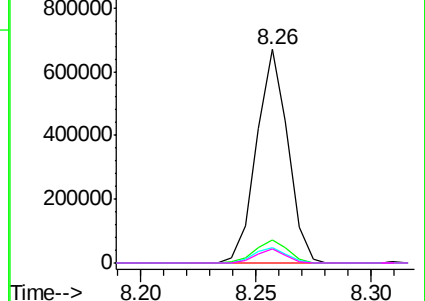
68 6.8 5.0 7.4

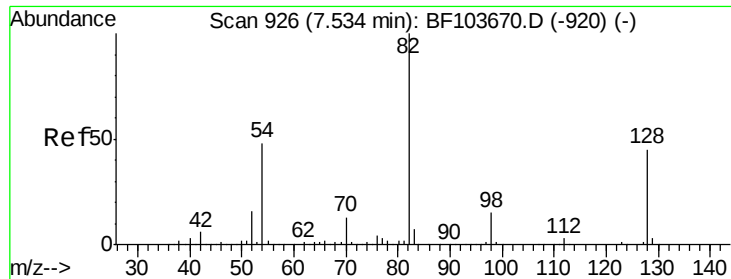
Abundance Ion 136.00 (135.70 to 136.70): E

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: 102.914 ng

RT: 7.54 min Scan# 927

Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

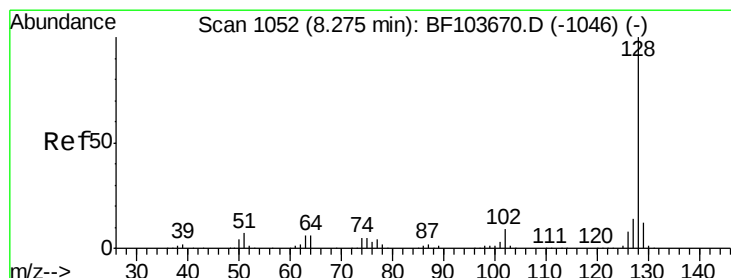
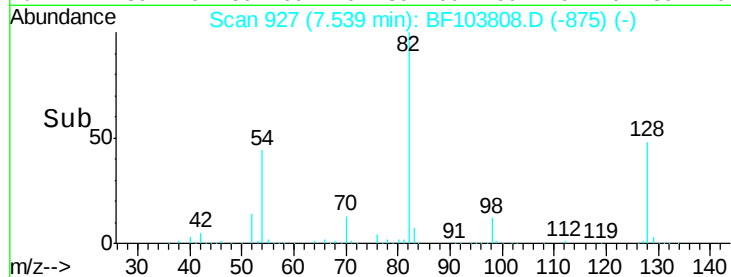
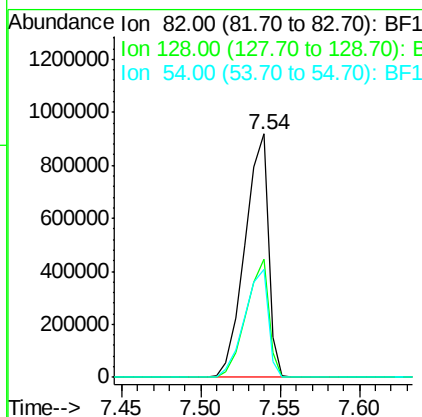
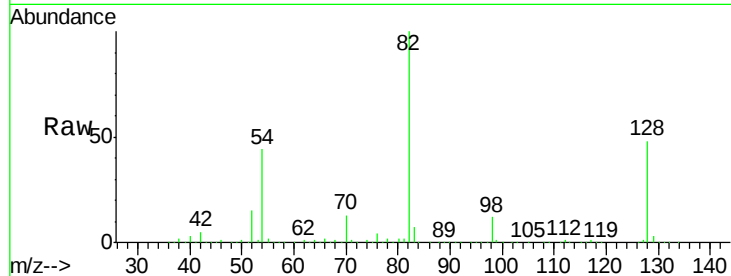
ClientSampleId :

SB-114(4-5)

Tot Ion:	82	Resp:	940700
Ion Ratio	Lower	Upper	
82	100		
128	48.5	36.1	54.1
54	44.1	41.4	62.2

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#31

Naphthalene

Concen: 86.888 ng

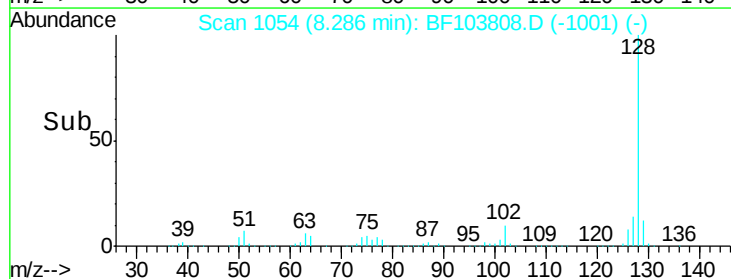
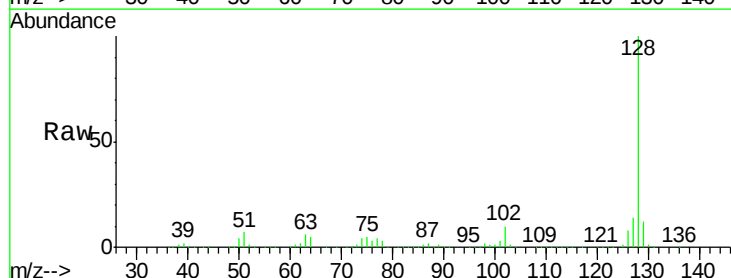
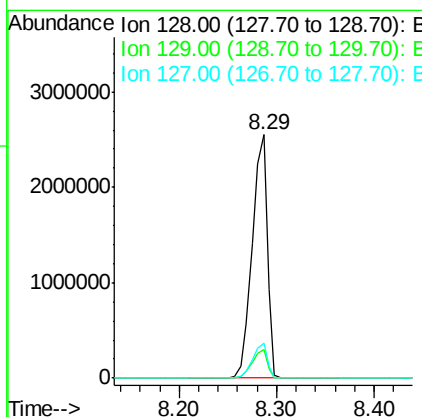
RT: 8.29 min Scan# 1054

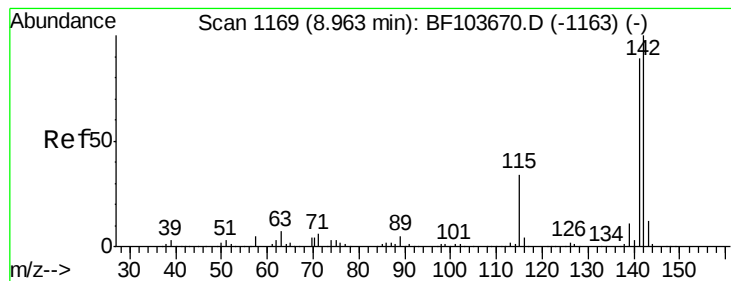
Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion:	128	Resp:	2797742
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.8	13.2
127	14.2	10.9	16.3





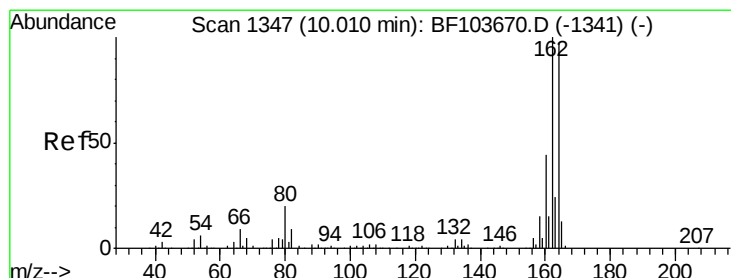
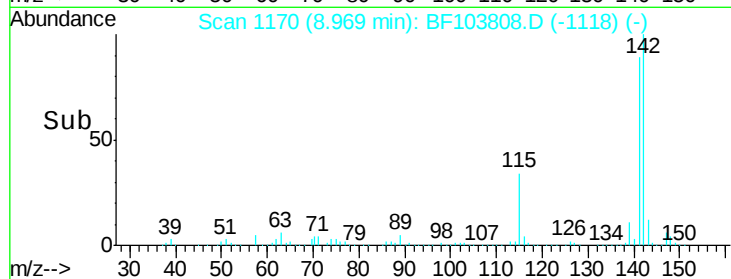
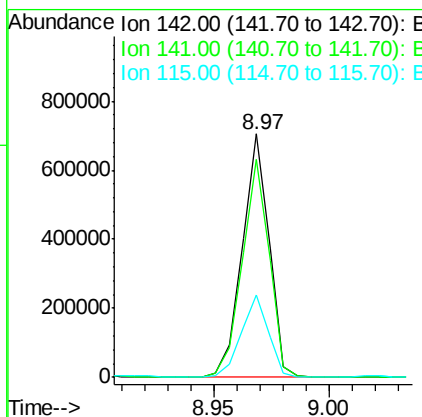
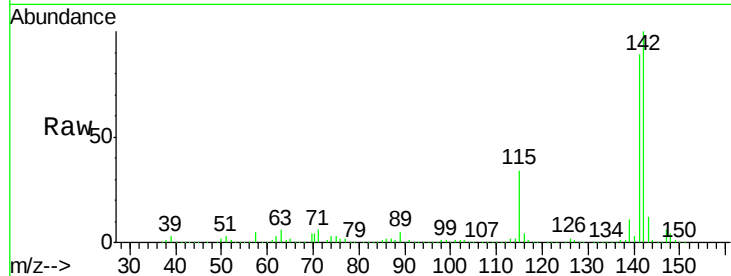
#37
2-Methylnaphthalene
Concen: 28.049 ng
RT: 8.97 min Scan# 1170
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.8	106.2
115	33.9	26.1	39.1

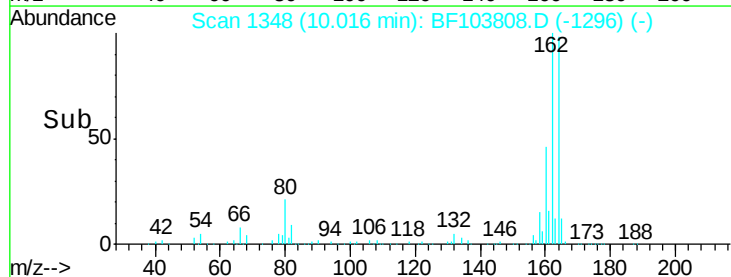
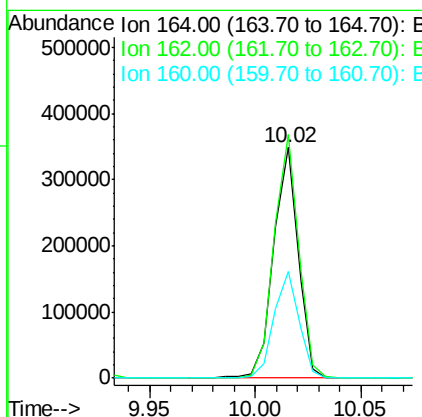
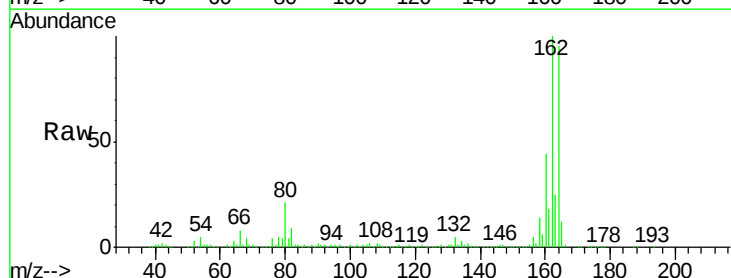
Manual Integrations
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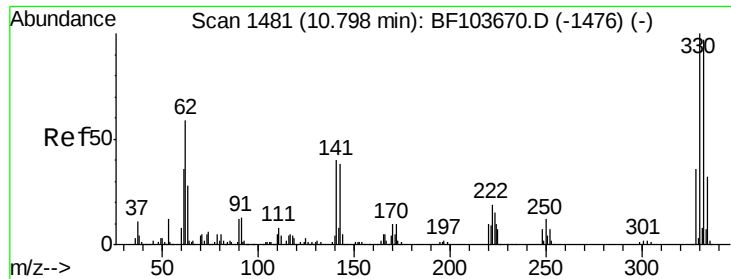
Sohil
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1348
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	86.1	129.1
160	46.3	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 113.330 ng

RT: 10.81 min Scan# 1483

Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

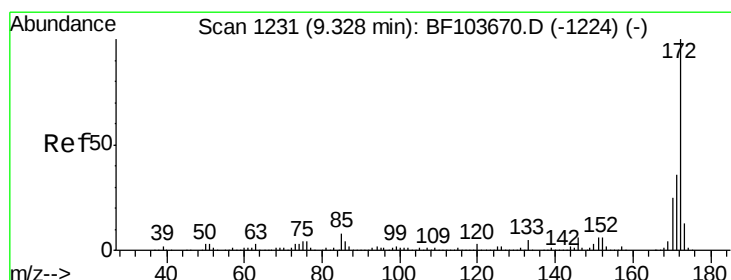
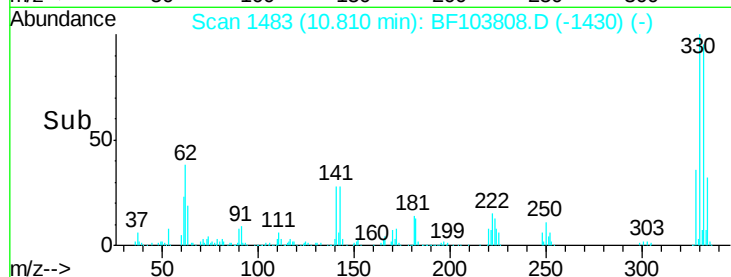
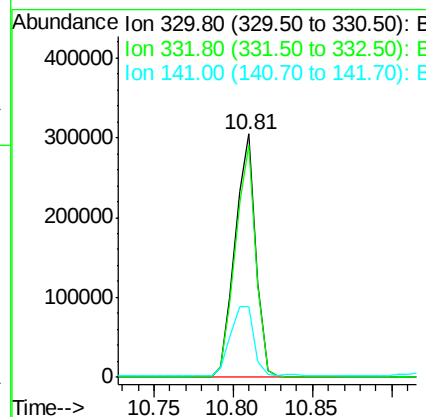
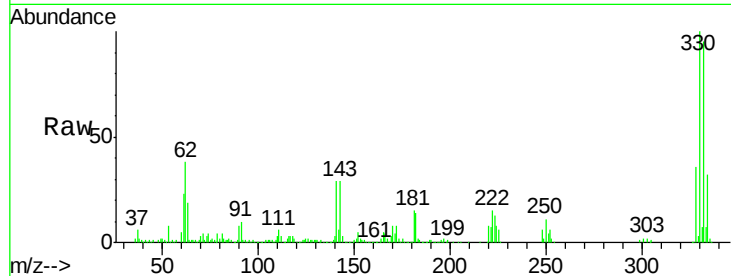
ClientSampleId :

SB-114(4-5)

Tot Ion:	330	Resp:	276510
Ion Ratio	Lower	Upper	
330	100		
332	94.7	77.0	115.6
141	32.4	29.9	44.9

Manual Integrations
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#44

2-Fluorobiphenyl

Concen: 75.562 ng

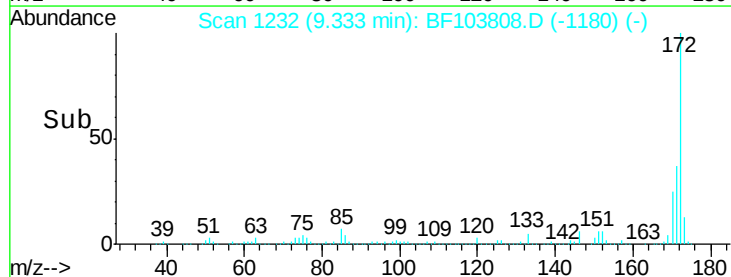
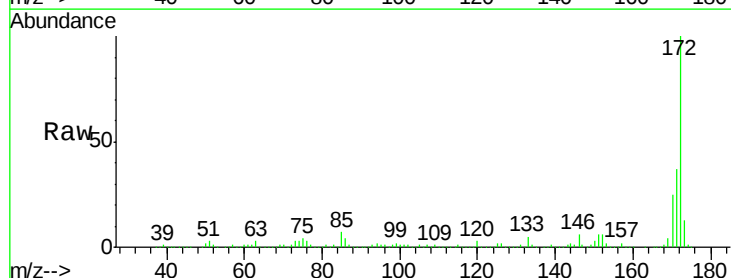
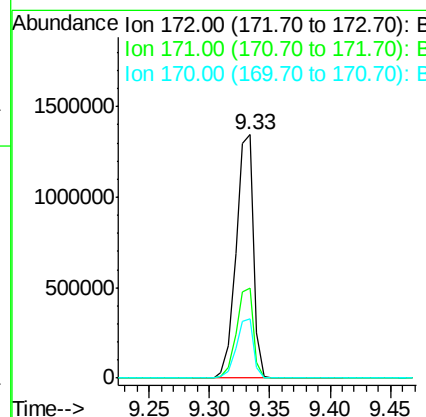
RT: 9.33 min Scan# 1232

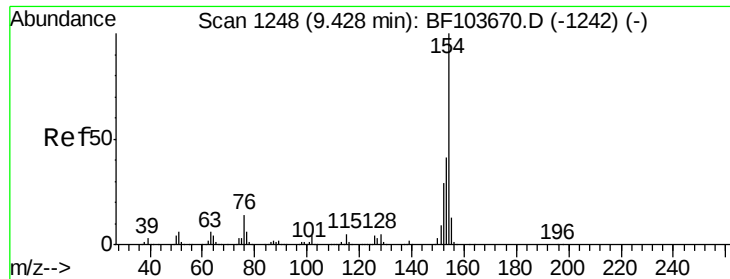
Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion:	172	Resp:	1344209
Ion Ratio	Lower	Upper	
172	100		
171	36.8	29.7	44.5
170	24.5	19.6	29.4





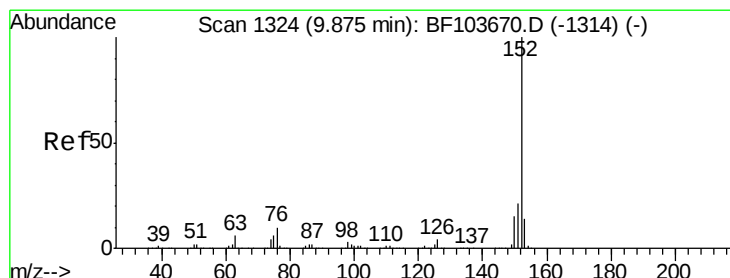
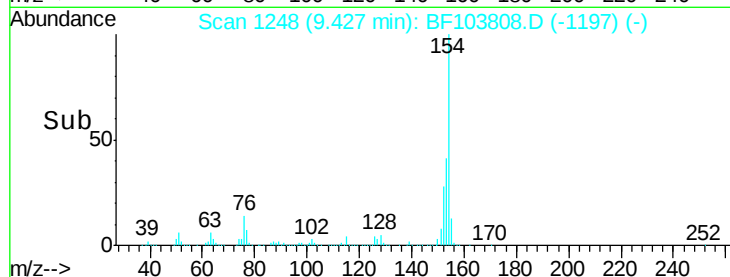
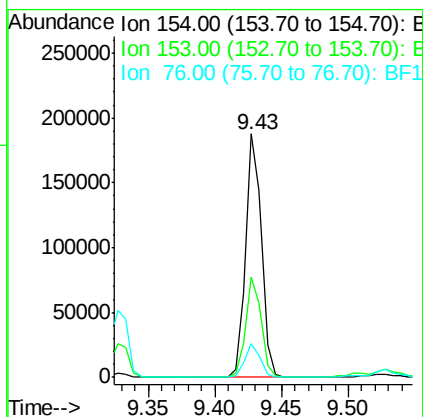
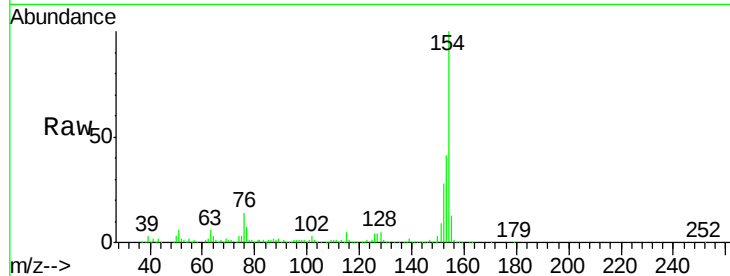
#45
1,1'-Biphenyl
Concen: 6.479 ng
RT: 9.43 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.3	61.3
76	13.8	0.0	34.0

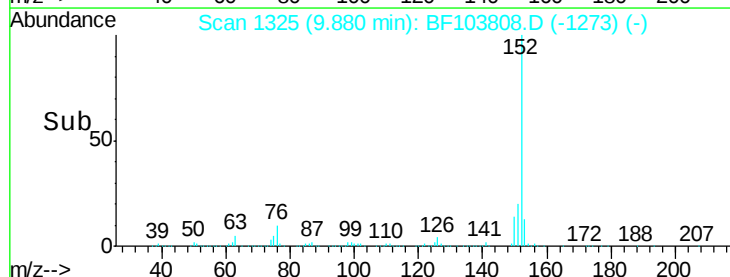
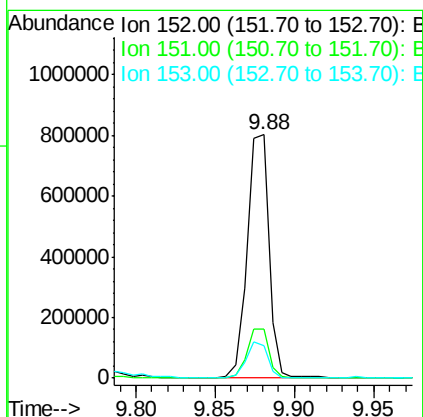
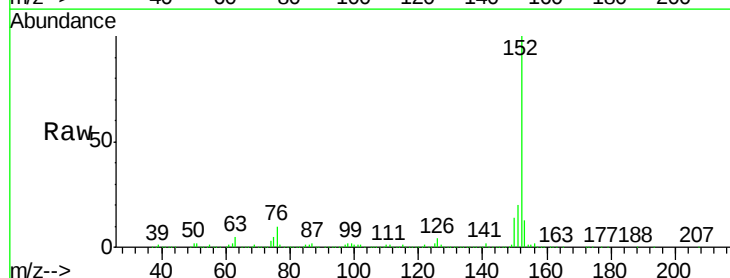
Manual Integrations
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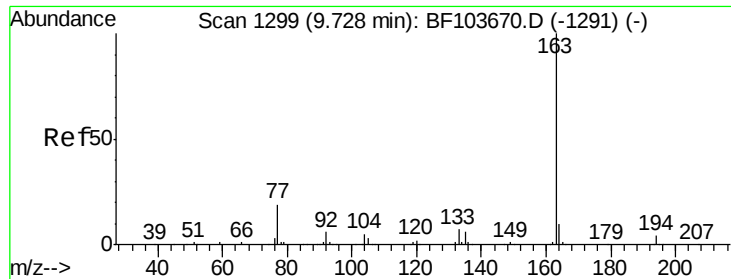
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#48
Acenaphthylene
Concen: 26.125 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.2	10.7	16.1





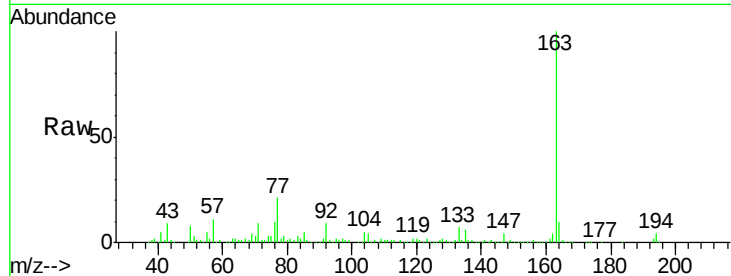
#49
Dimethylphthalate
Concen: 7.260 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

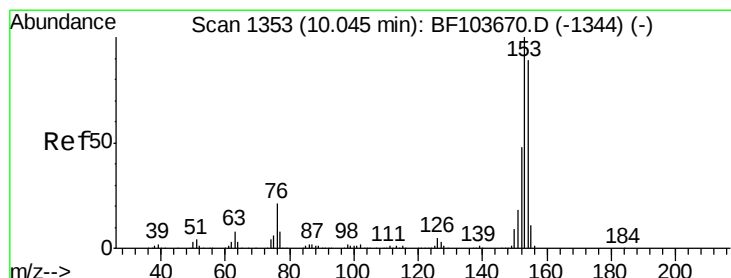
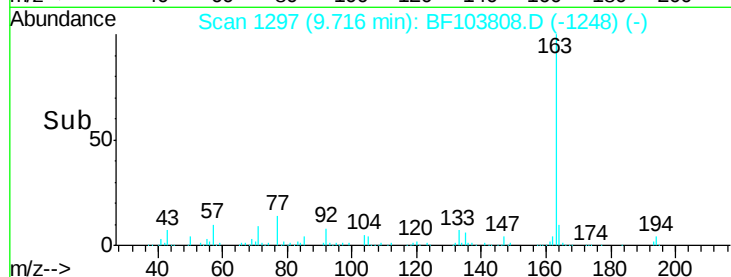
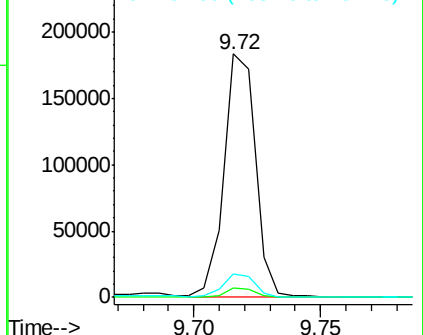
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	9.9	8.2	12.2

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3/22/2018 12:57:35 PM

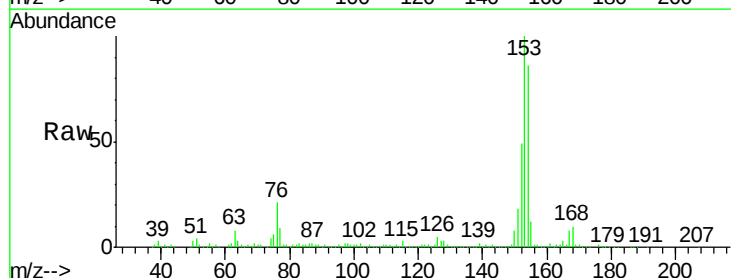


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

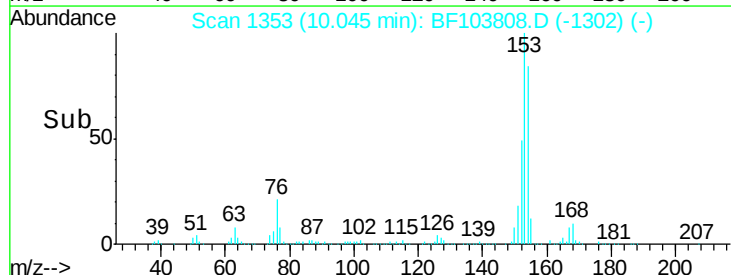
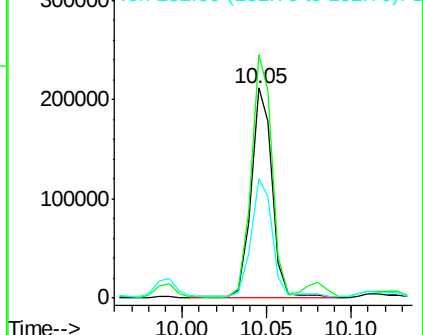


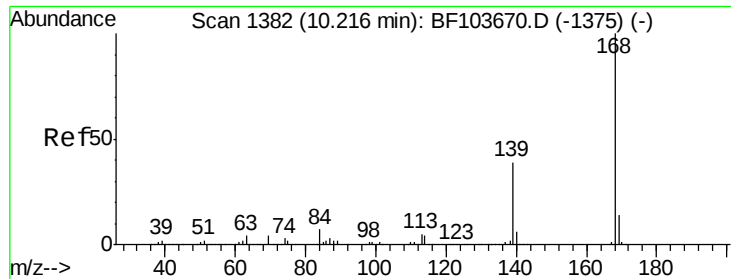
#51
Acenaphthene
Concen: 10.594 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.00 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.9	91.2	136.8
152	56.9	43.8	65.8



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





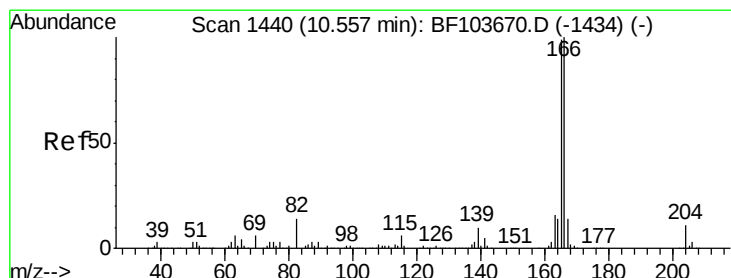
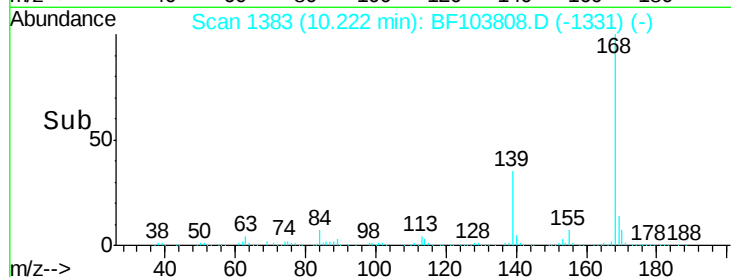
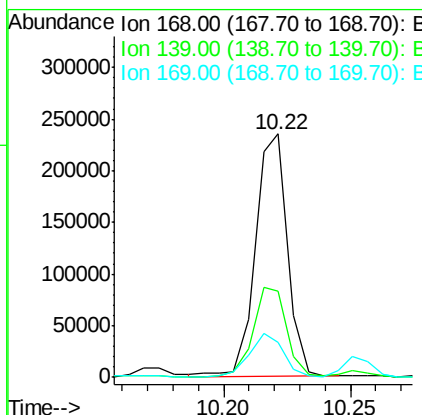
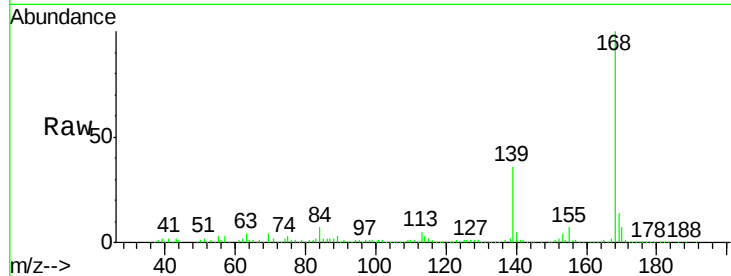
#54
Dibenzenofuran
Concen: 8.316 ng
RT: 10.22 min Scan# 1383
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion	Ratio	Resp	Lower	Upper
168	100	205530		
139	35.6		30.1	45.1
169	14.5		10.9	16.3

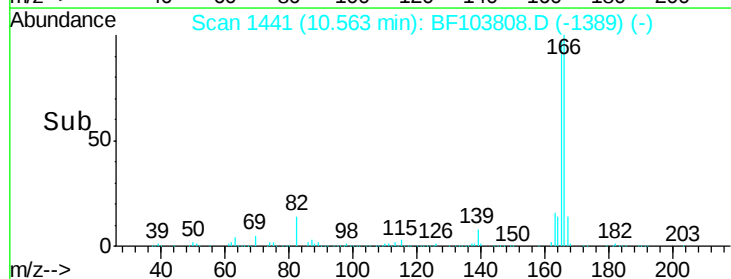
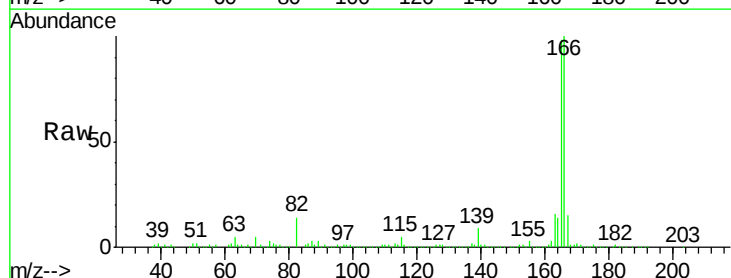
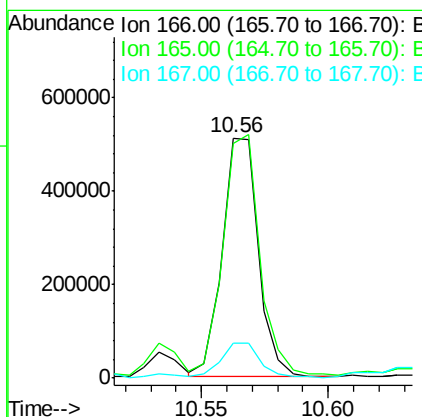
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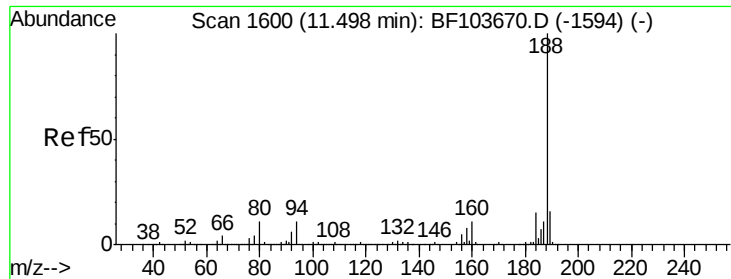
Sohil
3/22/2018 12:57:35 PM



#57
Fluorene
Concen: 26.310 ng
RT: 10.56 min Scan# 1441
Delta R.T. 0.01 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	504567		
165	97.7		79.8	119.8
167	14.7		10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1602

Delta R.T. 0.01 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

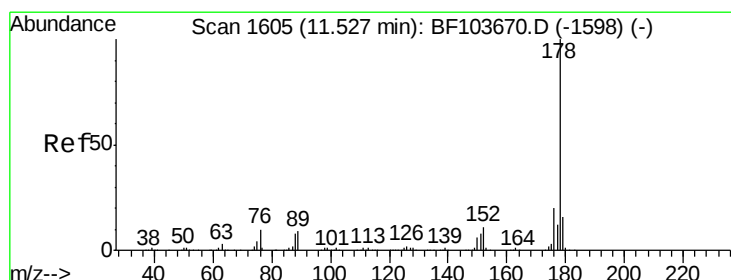
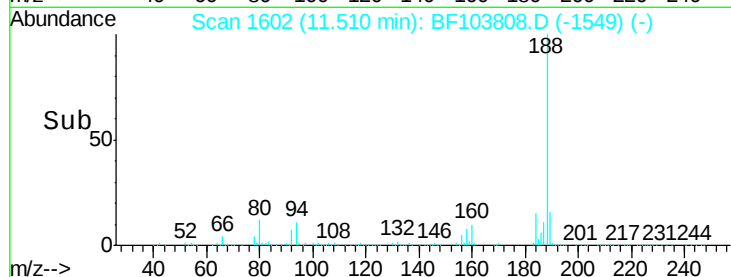
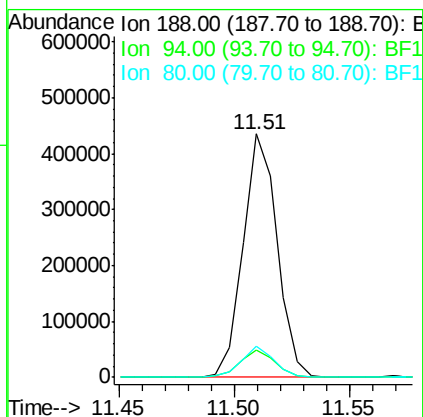
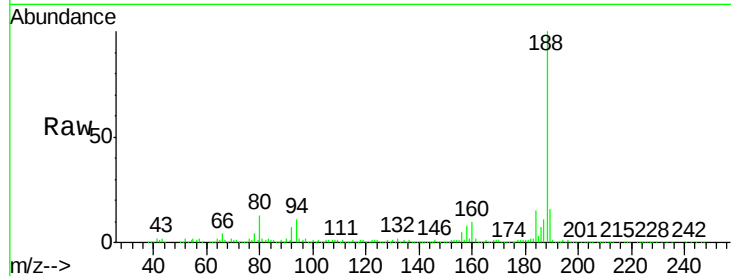
ClientSampleId :

SB-114(4-5)

Tot Ion:	188	Resp:	447619
Ion Ratio	Lower	Upper	
188	100		
94	11.4	8.5	12.7
80	12.6	9.2	13.8

Manual Integrations
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#70

Phenanthrene

Concen: 86.322 ng

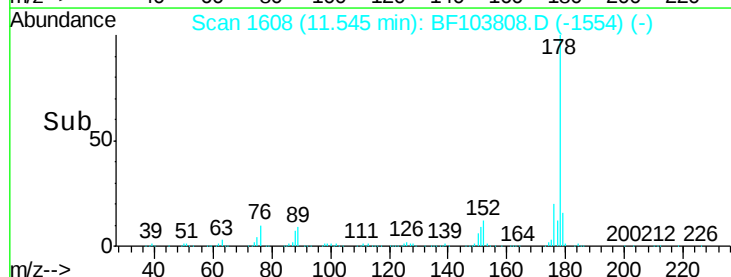
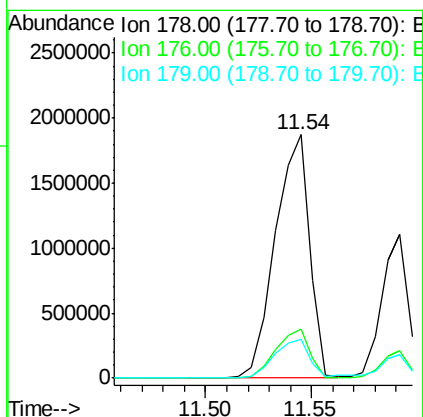
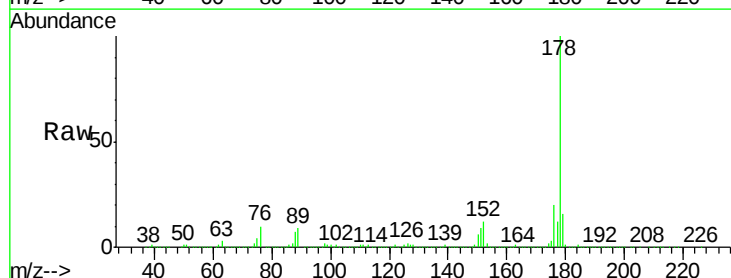
RT: 11.54 min Scan# 1608

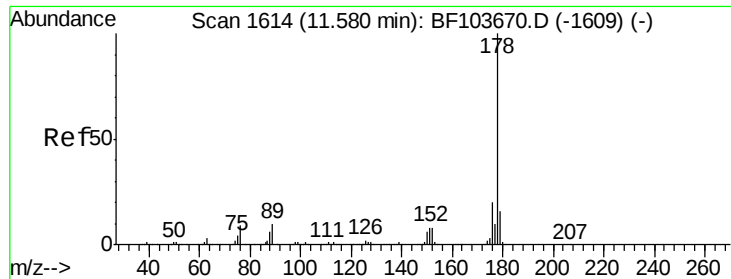
Delta R.T. 0.02 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion:	178	Resp:	2113653
Ion Ratio	Lower	Upper	
178	100		
176	20.4	15.8	23.8
179	16.1	13.0	19.6





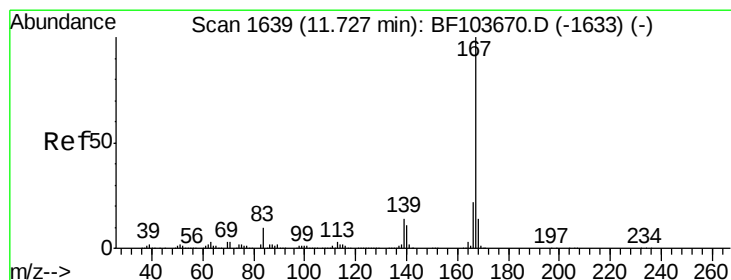
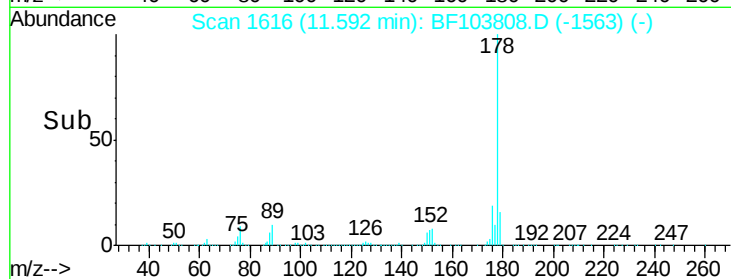
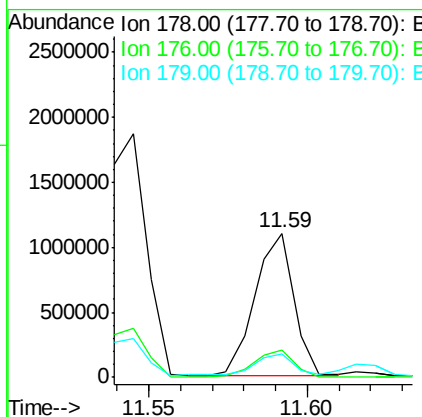
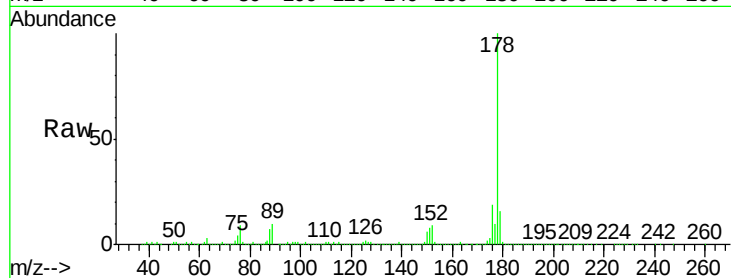
#71
 Anthracene
 Concen: 37.828 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.01 min
 Lab File: BF103808.D
 Acq: 20 Mar 2018 17:58

Instrument :
 BNA_F
 ClientSampled :
 SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.1	12.6	19.0

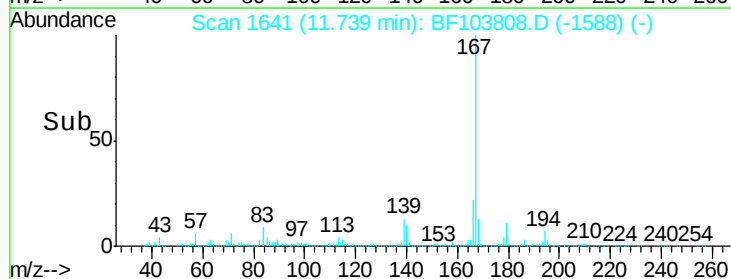
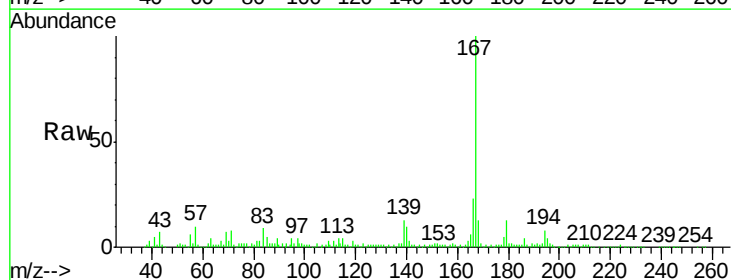
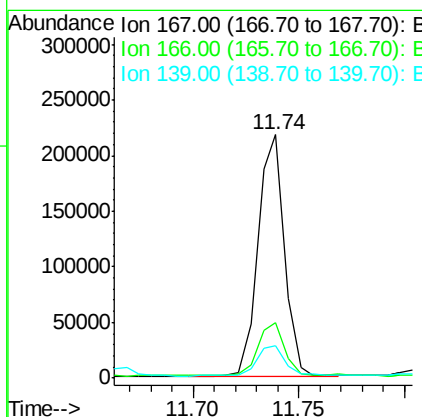
Manual Integrations
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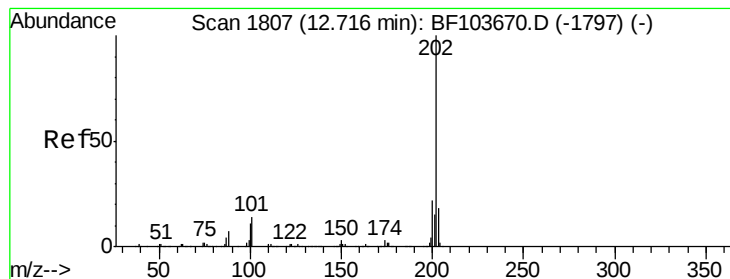
Sohil
 3/22/2018 12:57:35 PM



#72
 Carbazole
 Concen: 7.842 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. 0.01 min
 Lab File: BF103808.D
 Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.6	26.4
139	13.5	10.9	16.3





#74

Fluoranthene

Concen: 91.113 ng

RT: 12.74 min Scan# 1812

Delta R.T. 0.03 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

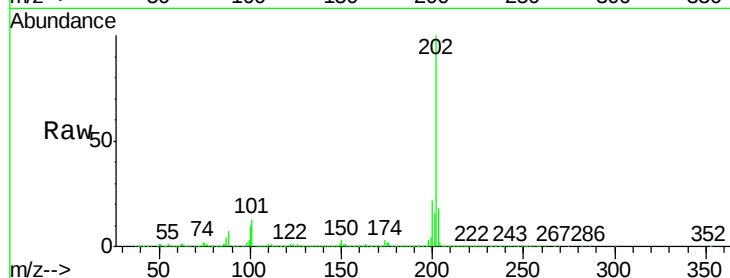
ClientSampleId :

SB-114(4-5)

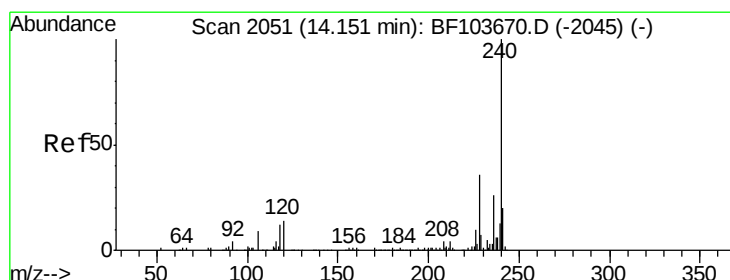
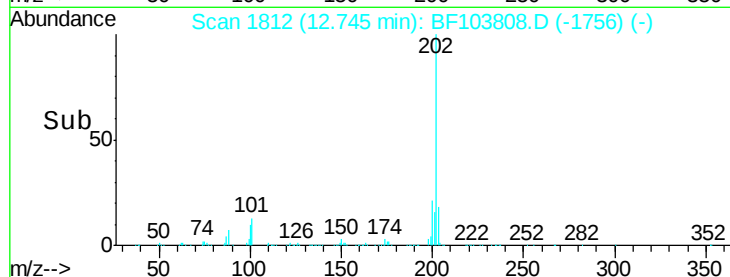
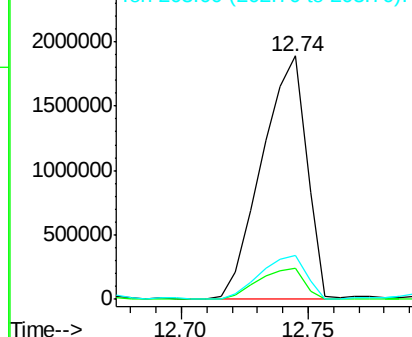
Tot Ion:	202	Resp:	2298401
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	34.1
203	18.2	0.0	38.1

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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: 14.17 min Scan# 2055

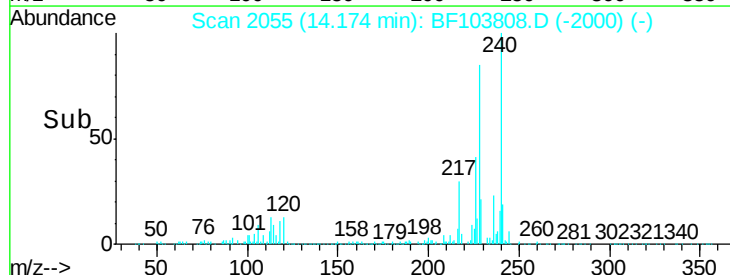
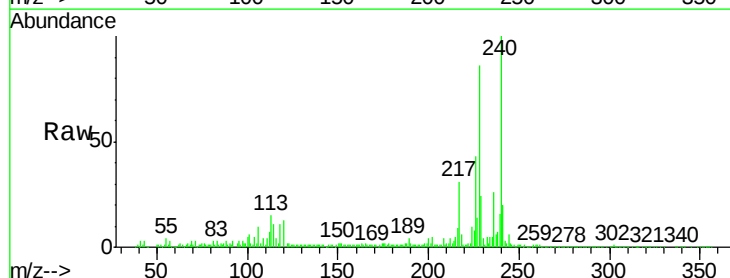
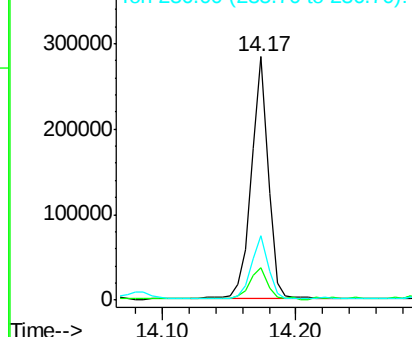
Delta R.T. 0.02 min

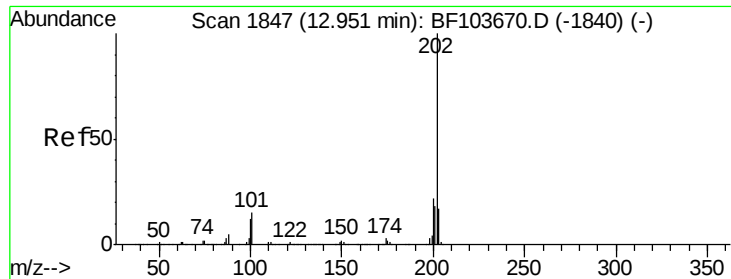
Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion:	240	Resp:	245276
Ion	Ratio	Lower	Upper
240	100		
120	13.3	9.5	14.3
236	26.5	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





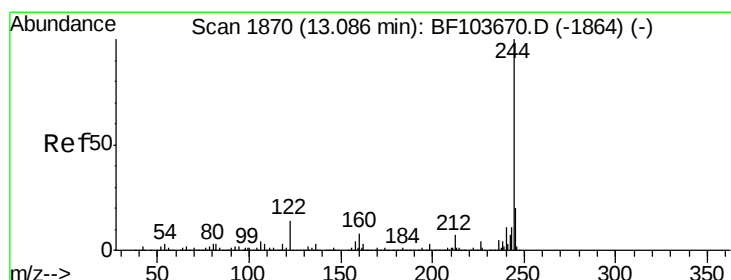
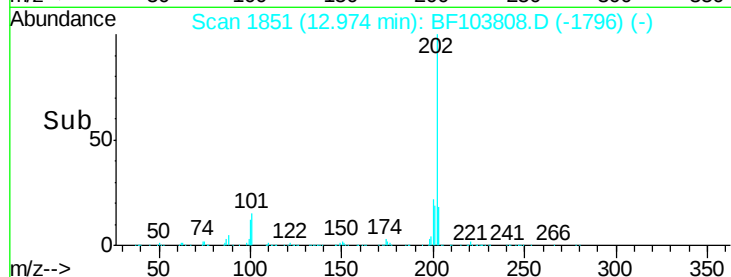
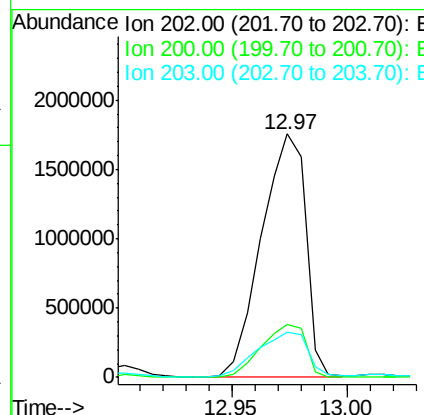
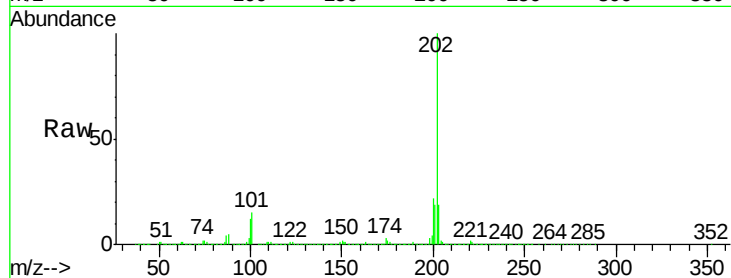
#77
Pvrene
Concen: 128.621 ng
RT: 12.97 min Scan# 1851
Delta R.T. 0.02 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.6	14.3	21.5

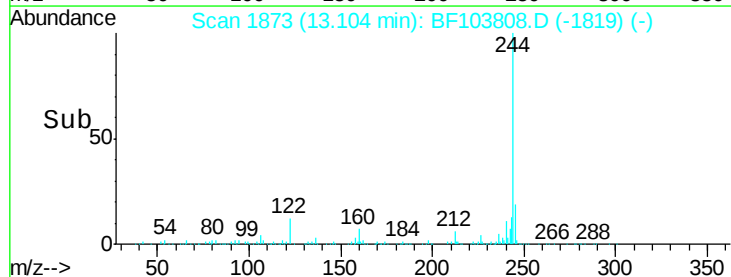
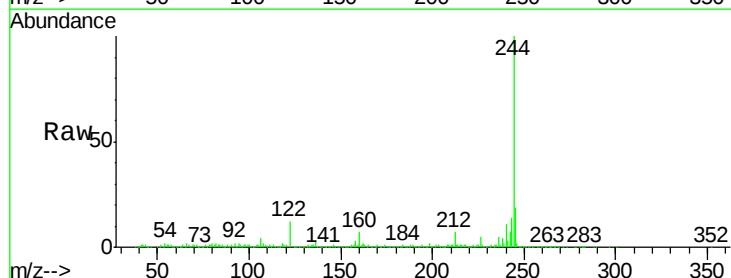
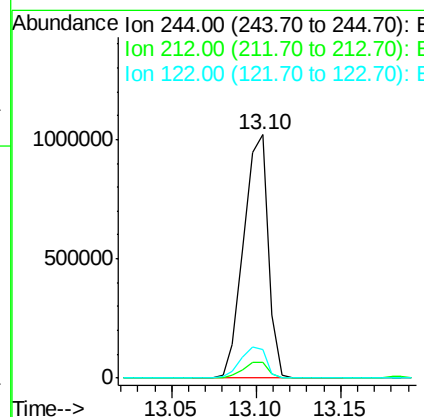
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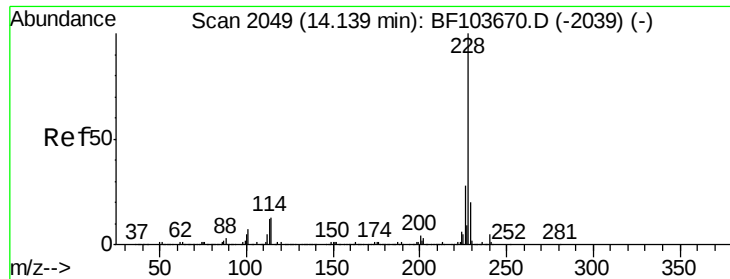
Sohil
3/22/2018 12:57:35 PM



#78
Terphenyl-d14
Concen: 98.045 ng
RT: 13.10 min Scan# 1873
Delta R.T. 0.02 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	12.0	11.0	16.4





#80

Benzo(a)anthracene

Concen: 88.016 ng/mL

RT: 14.16 min Scan# 2053

Delta R.T. 0.02 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

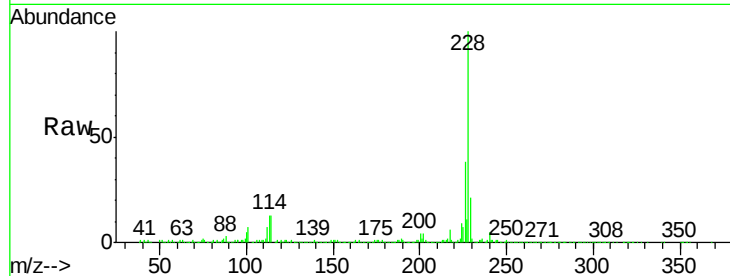
ClientSampleID :

SB-114(4-5)

Tot Ion:	228	Resp:	1366536
Ion	Ratio	Lower	Upper
228	100		
226	37.7	22.6	33.8#
229	21.2	15.8	23.6

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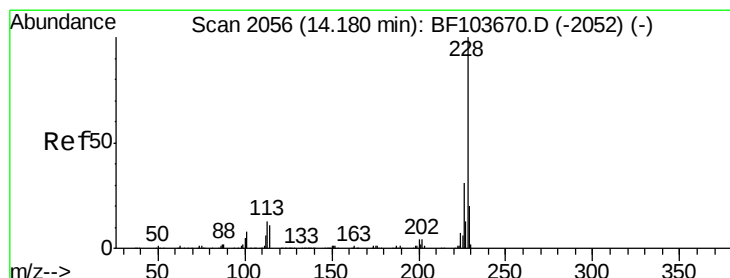
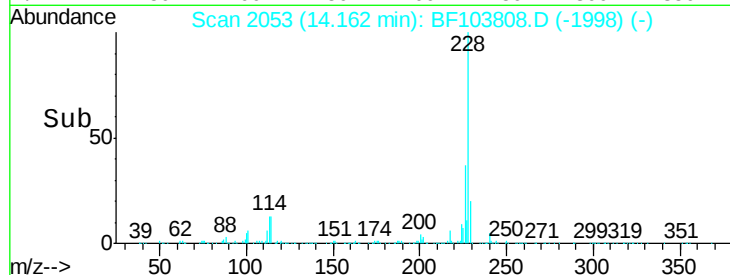
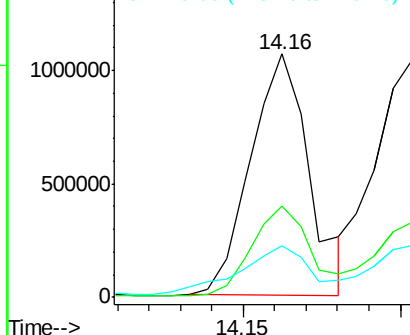


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 75.880 ng/mL

RT: 14.20 min Scan# 2060

Delta R.T. 0.02 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

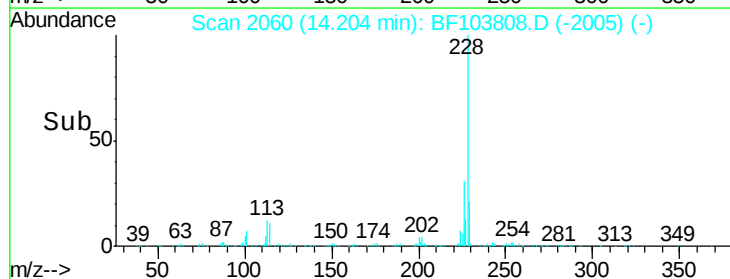
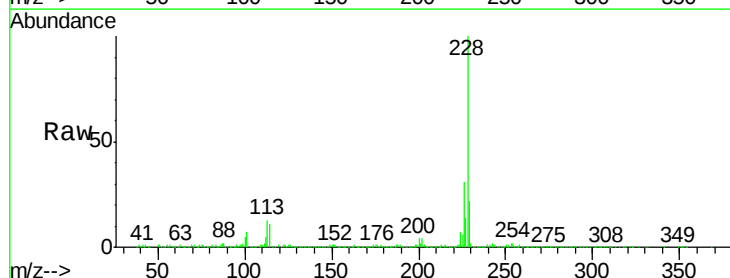
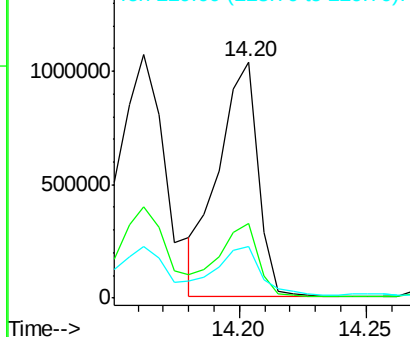
Tgt Ion:	228	Resp:	1123032
Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.0	37.6
229	22.0	16.2	24.4

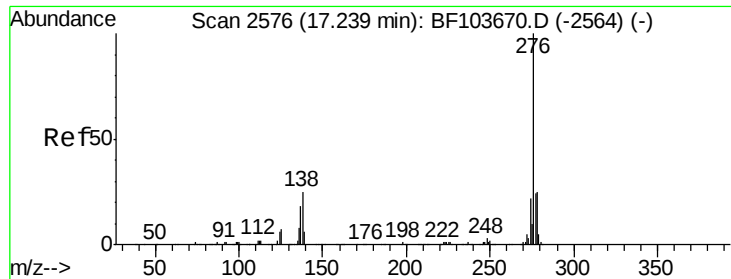
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





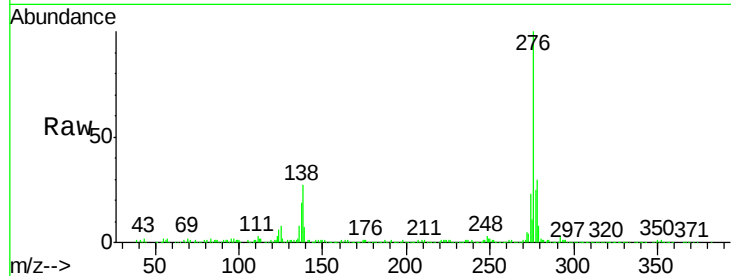
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 47.925 ng
 RT: 17.31 min Scan# 2588
 Delta R.T. 0.07 min
 Lab File: BF103808.D
 Acq: 20 Mar 2018 17:58

Instrument :
 BNA_F
 ClientSampleId :
 SB-114(4-5)

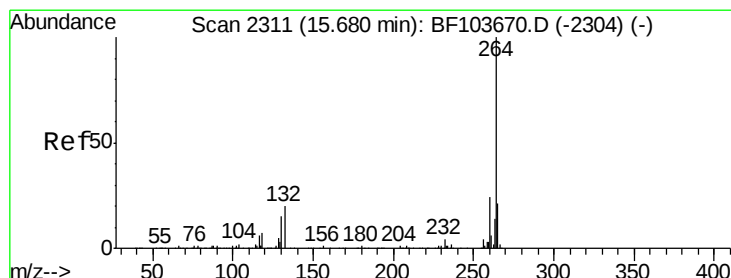
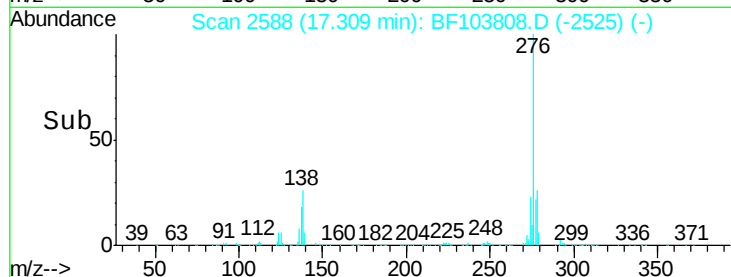
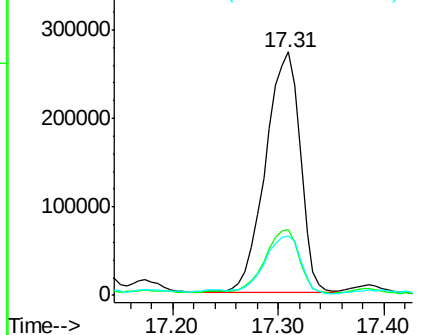
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.0	25.0	37.6
277	24.8	20.1	30.1

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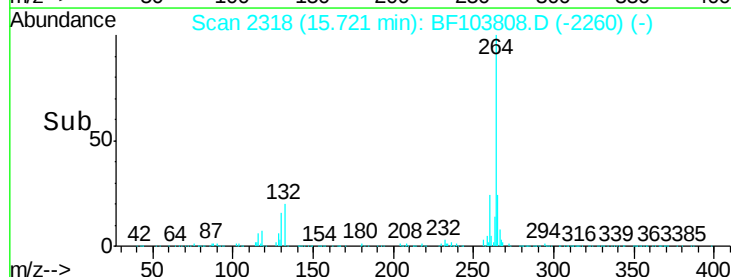
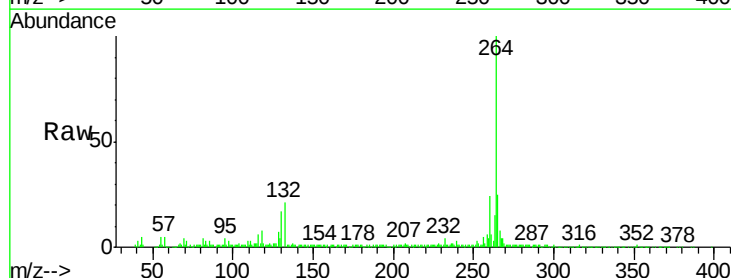
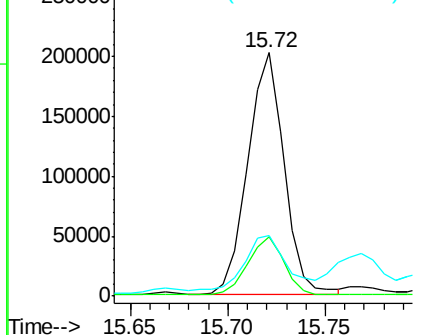
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

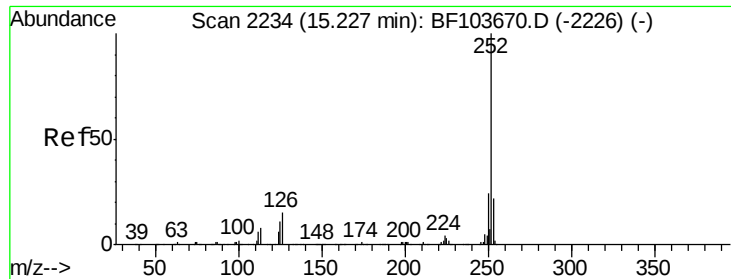


#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.72 min Scan# 2318
 Delta R.T. 0.04 min
 Lab File: BF103808.D
 Acq: 20 Mar 2018 17:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	24.6	17.5	26.3

Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 97.678 ng m

RT: 15.27 min Scan# 2241

Delta R.T. 0.04 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Instrument :

BNA_F

ClientSampleId :

SB-114(4-5)

Tot Ion:252 Resp: 1595398

Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.6

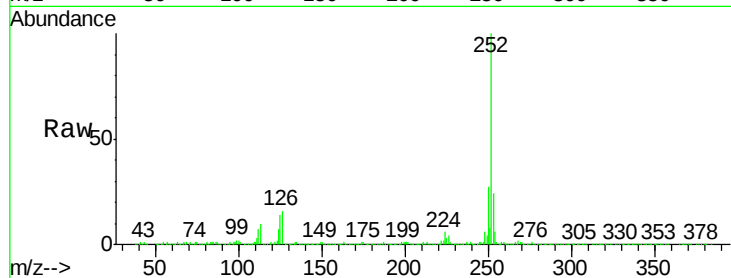
125 14.4 9.0 13.6#

Manual Integrations

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Sohil

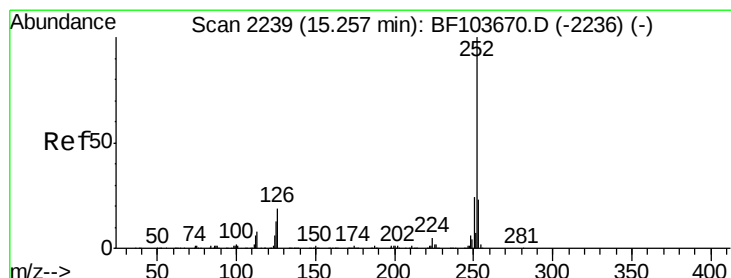
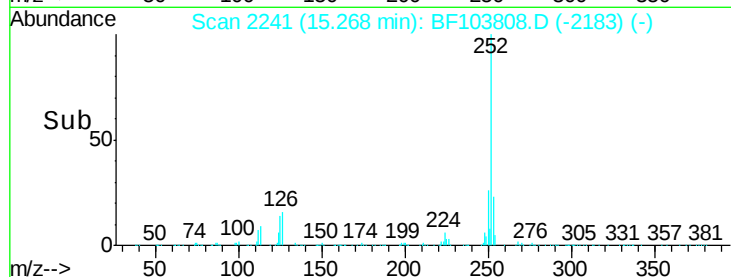
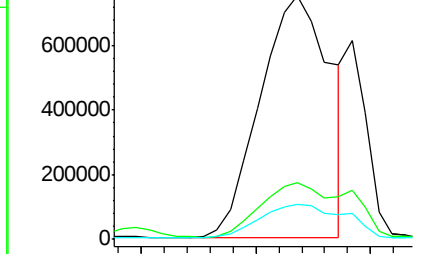
3/22/2018 12:57:35 PM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 25.949 ng m

RT: 15.29 min Scan# 2245

Delta R.T. 0.04 min

Lab File: BF103808.D

Acq: 20 Mar 2018 17:58

Tgt Ion:252 Resp: 407418

Ion Ratio Lower Upper

252 100

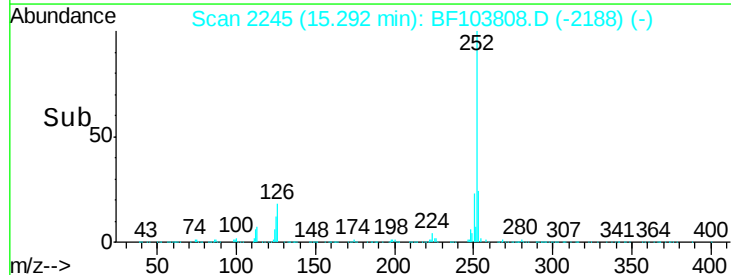
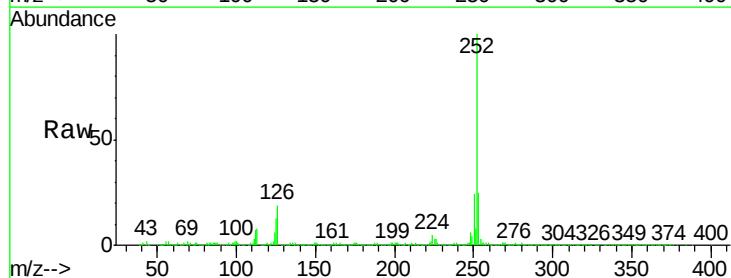
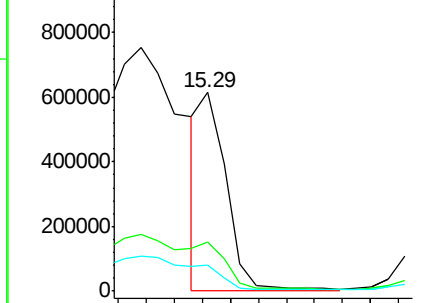
253 24.8 17.9 26.9

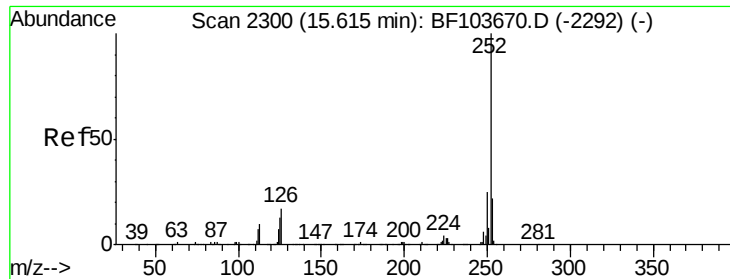
125 13.3 10.2 15.2

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





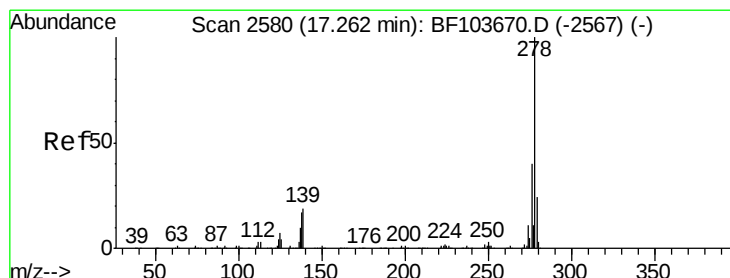
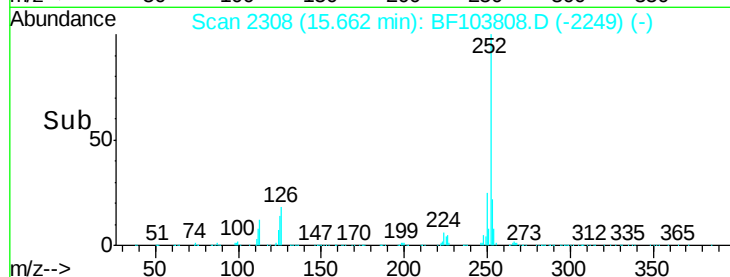
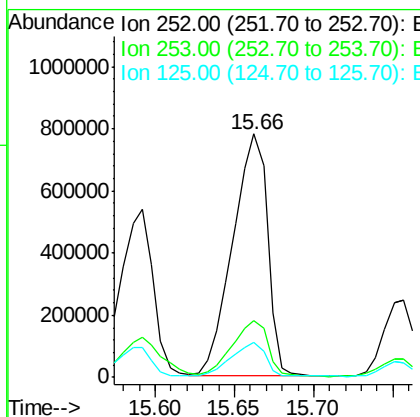
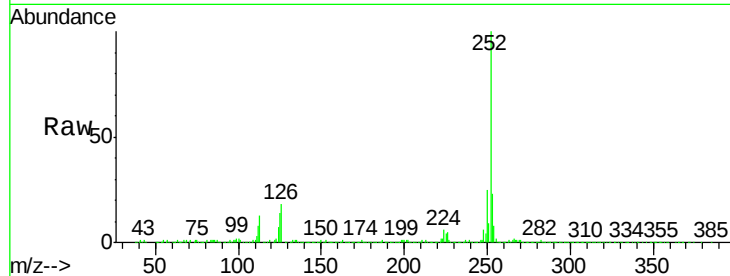
#89
Benzo(a)pyrene
Concen: 80.168 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.05 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Instrument :
BNA_F
ClientSampleId :
SB-114(4-5)

Tot Ion:252 Resp: 1187638
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 14.3 9.8 14.6

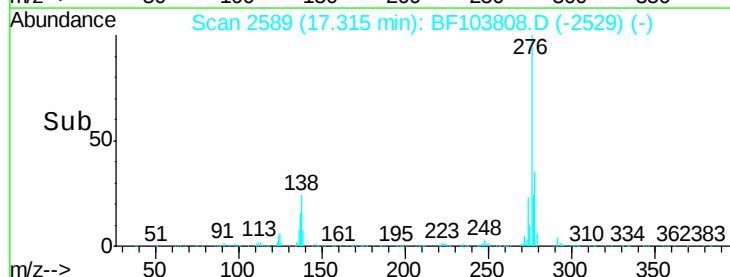
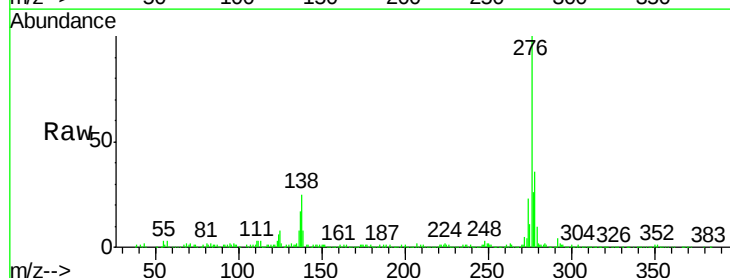
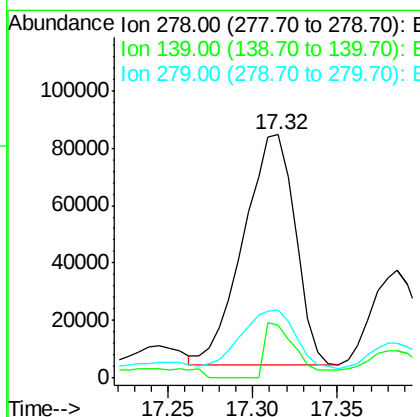
Manual Integrations
APPROVED

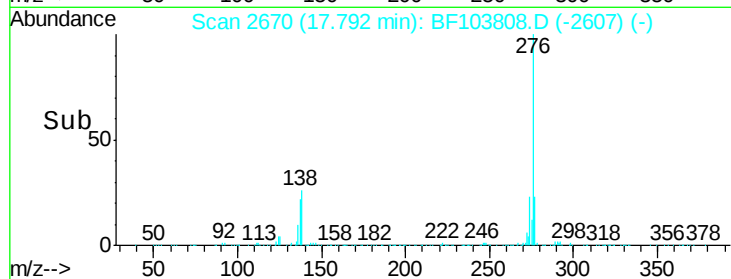
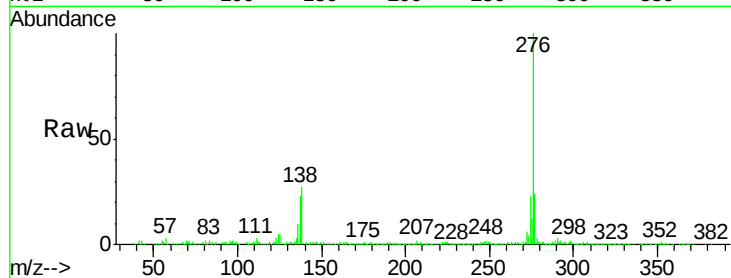
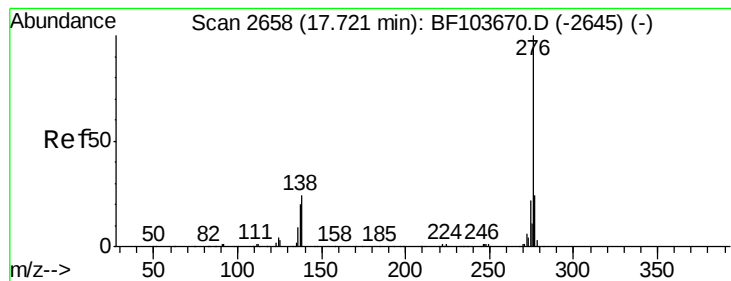
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 13.280 ng
RT: 17.32 min Scan# 2589
Delta R.T. 0.05 min
Lab File: BF103808.D
Acq: 20 Mar 2018 17:58

Tgt Ion:278 Resp: 170351
Ion Ratio Lower Upper
278 100
139 21.9 15.9 23.9
279 27.9 19.0 28.4





#91
 Benzo(a,h,i)perylene
 Concen: 44.987 ng
 RT: 17.79 min Scan# 2670
 Delta R.T. 0.07 min
 Lab File: BF103808.D
 Acq: 20 Mar 2018 17:58

Instrument :
 BNA_F
 ClientSampleId :
 SB-114(4-5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	26.7	21.8	32.8

Manual Integrations
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Sohil
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