

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070316\
 Data File : BF088683.D
 Acq On : 4 Jul 2016 9:13
 Operator : UM/SJ
 Sample : H3849-05
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 F12-B1(5-11)C

Manual Integrations

umangi
 7/5/2016 7:50:48 PM

Quant Time: Jul 05 17:00:38 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 05 01:06:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105266	20.00	ng	0.01
21) Naphthalene-d8	8.08	136	345545	20.00	ng	0.01
38) Acenaphthene-d10	9.82	164	173456	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	301793	20.00	ng	0.01
75) Chrysene-d12	13.92	240	213683	20.00	ng	0.00
86) Perylene-d12	15.31	264	184695	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	656209	93.43	ng	0.01
7) Phenol-d6	6.43	99	917189	101.06	ng	0.01
23) Nitrobenzene-d5	7.37	82	569149	86.32	ng	0.02
41) 2,4,6-Tribromophenol	10.60	330	166005	103.06	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	956944	87.14	ng	0.00
78) Terphenyl-d14	12.88	244	610928	63.68	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.11	128	2978553	174.85	ng	97
37) 2-Methylnaphthalene	8.80	142	1699927	154.98	ng	# 91
45) 1,1'-Biphenyl	9.24	154	88476	6.16	ng	99
49) Dimethylphthalate	9.54	163	95867	7.76	ng	100
51) Acenaphthene	9.85	154	221887	20.18	ng	99
54) Dibenzofuran	10.02	168	236468	16.43	ng	# 89
57) Fluorene	10.36	166	259990	23.44	ng	98
70) Phenanthrene	11.32	178	671794	40.72	ng	99
71) Anthracene	11.37	178	147983	9.02	ng	98
72) Carbazole	11.52	167	57847	3.75	ng	98
74) Fluoranthene	12.52	202	248429	14.85	ng	96
77) Pyrene	12.73	202	173609	9.58	ng	99
80) Benzo(a)anthracene	13.91	228	51374	3.73	ng	96
82) Chrysene	13.94	228	35103m	2.58	ng	
87) Benzo(b)fluoranthene	14.93	252	35859m	3.10	ng	
89) Benzo(a)pyrene	15.26	252	20847	2.13	ng	# 92

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

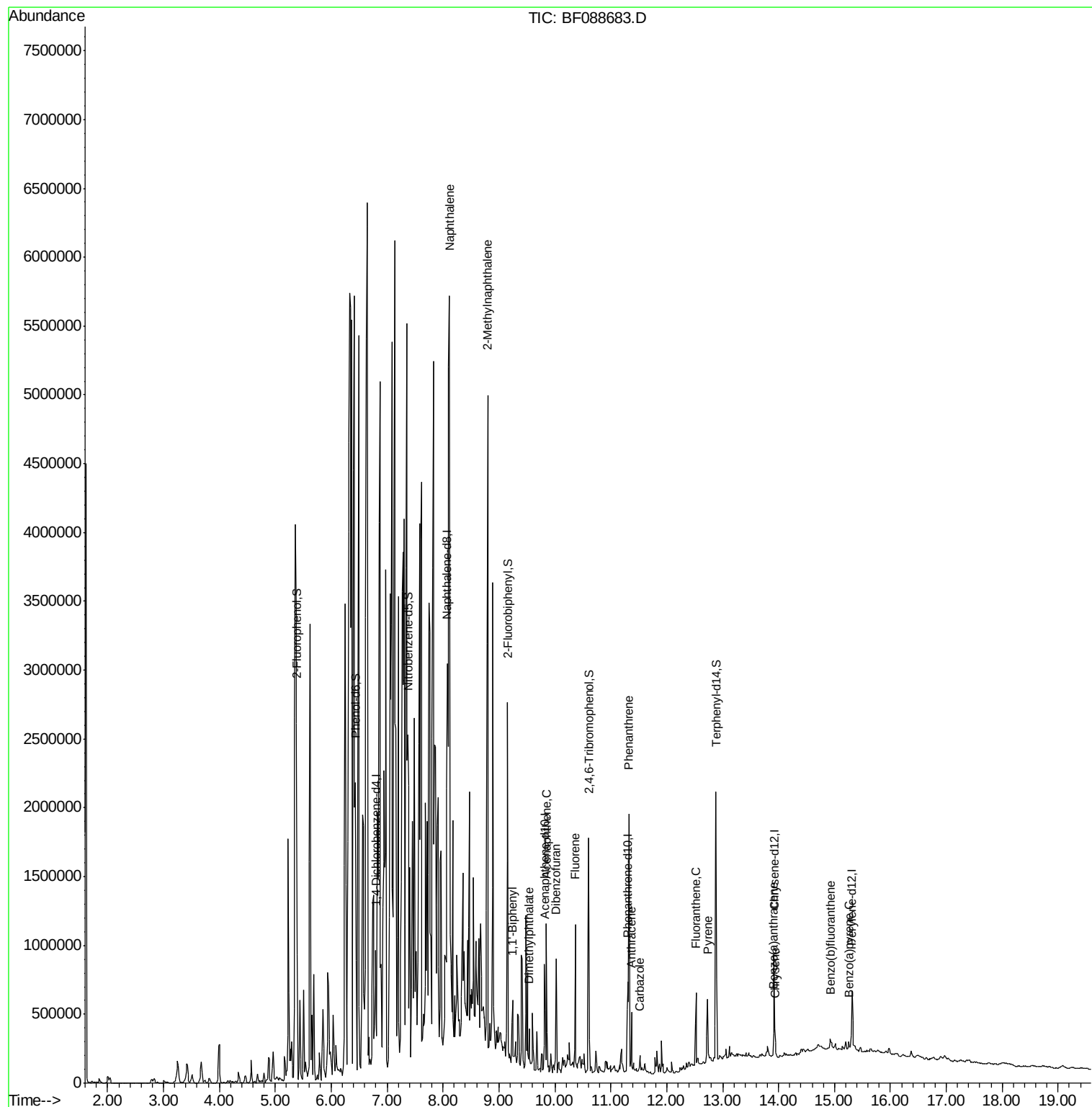
Data Path : Z:\HPCHEM1\BNA F\DATA\BF070316\
Data File : BF088683.D
Acq On : 4 Jul 2016 9:13
Operator : UM/SJ
Sample : H3849-05
Misc :
ALS Vial : 42 Sample Multiplier: 1

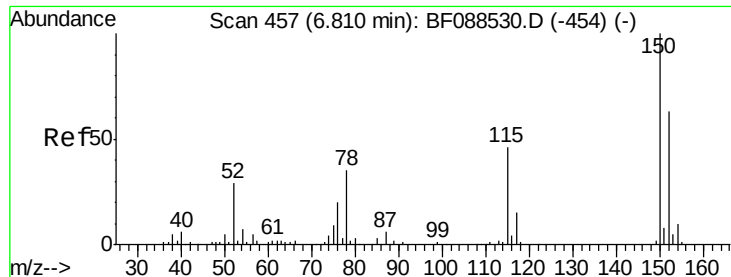
Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

Manual Integrations

Quant Time: Jul 05 17:00:38 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 05 01:06:52 2016
Response via : Initial Calibration

umangi
7/5/2016 7:50:48 PM





#1

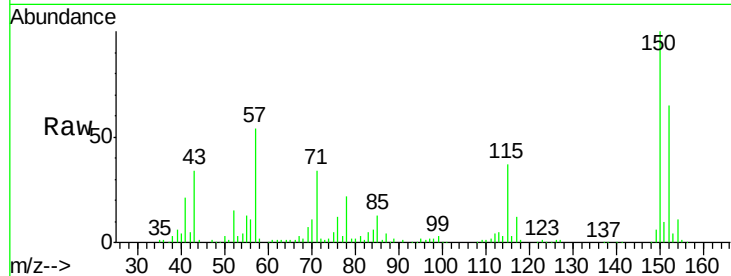
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 456
Delta R.T. 0.01 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.8	185.6
115	56.7	39.6	59.4

Manual Integrations

umangi
7/5/2016 7:50:48 PM

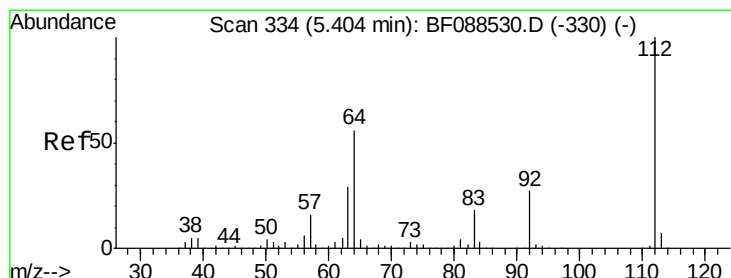
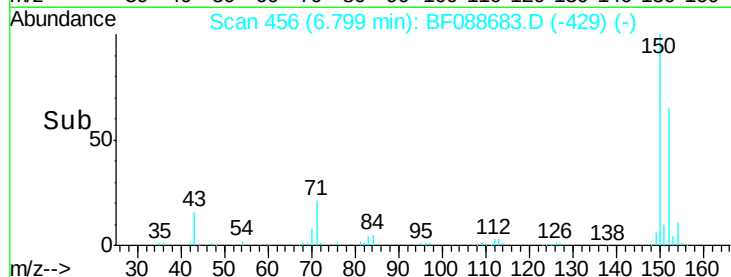
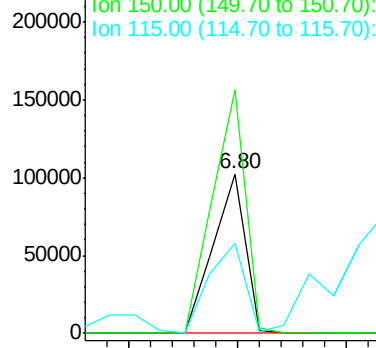


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

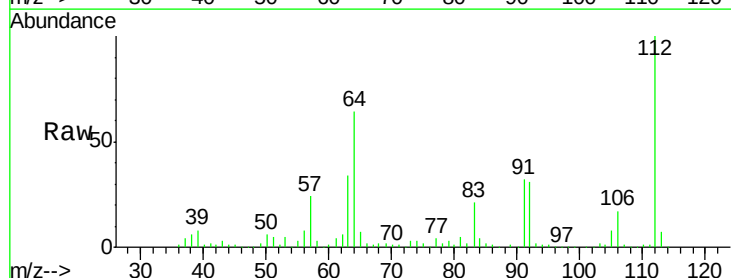
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 93.43 ng
RT: 5.38 min Scan# 332
Delta R.T. 0.01 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.2	42.2	63.2#
63	34.4	21.8	32.8#

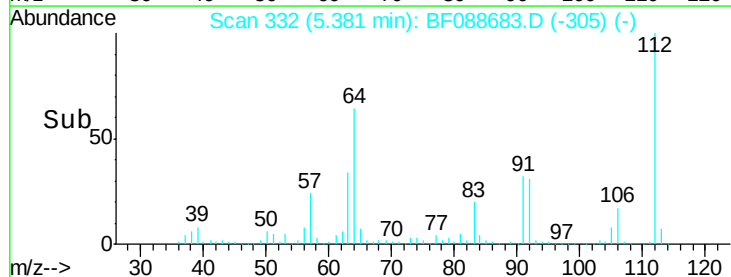
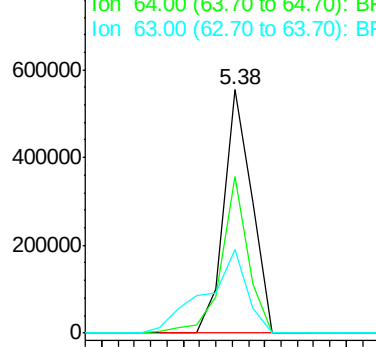


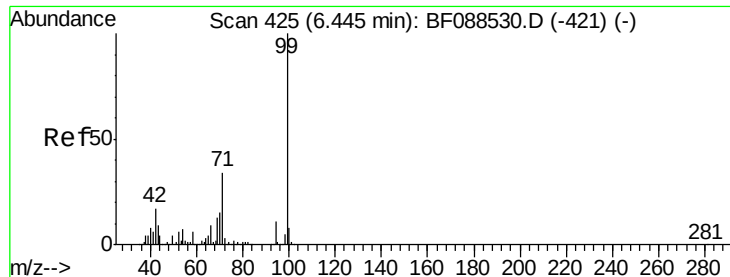
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 101.06 ng

RT: 6.43 min Scan# 424

Delta R.T. 0.01 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

F12-B1(5-11)C

Tot Ion: 99 Resp: 917189

Ion Ratio Lower Upper

99 100

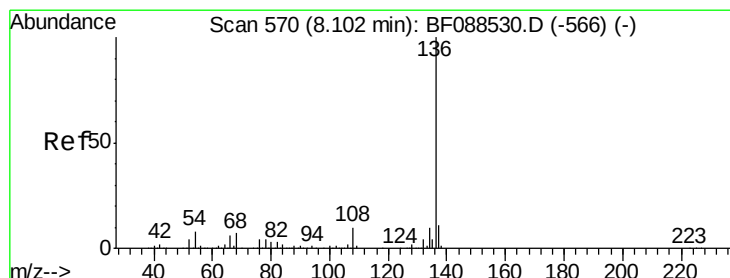
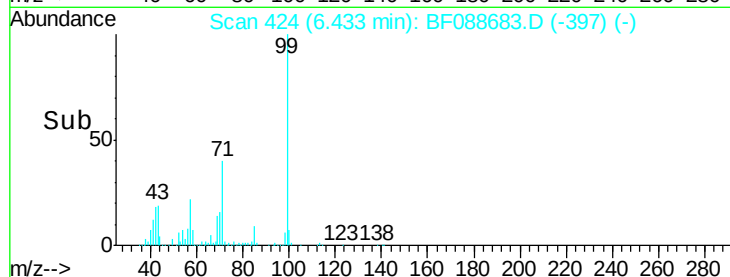
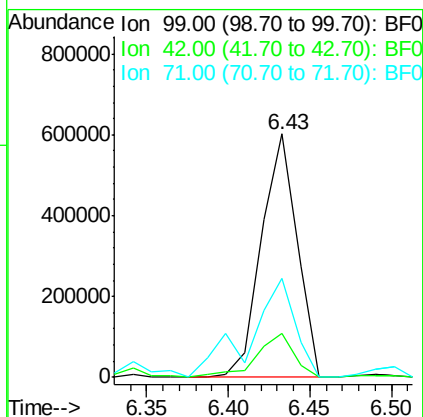
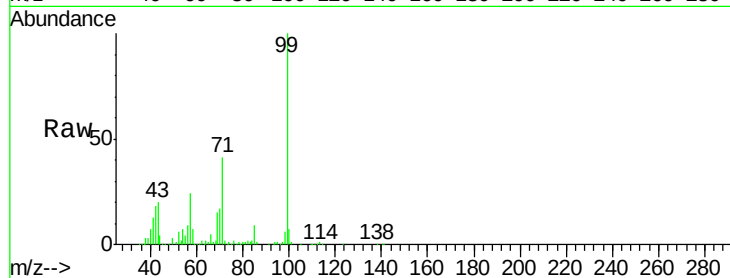
42 18.0 12.2 18.2

71 40.9 23.4 35.0#

Manual Integrations

umangi

7/5/2016 7:50:48 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 568

Delta R.T. 0.01 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Tgt Ion: 136 Resp: 345545

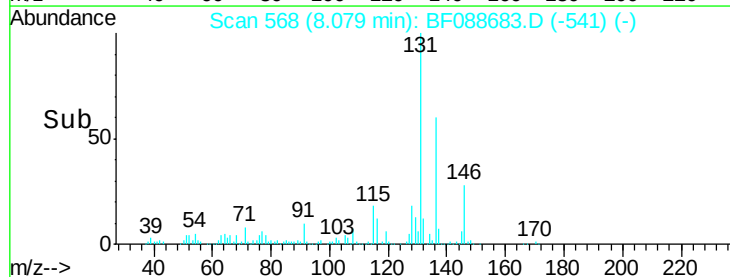
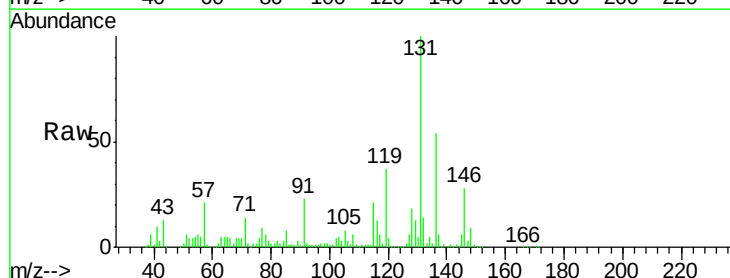
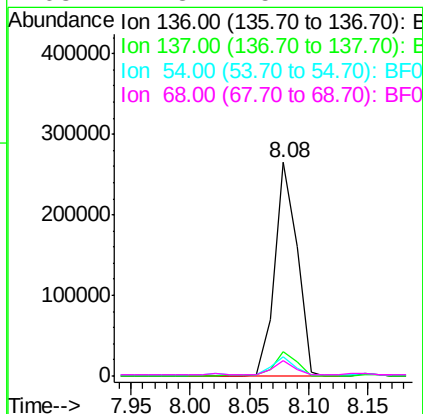
Ion Ratio Lower Upper

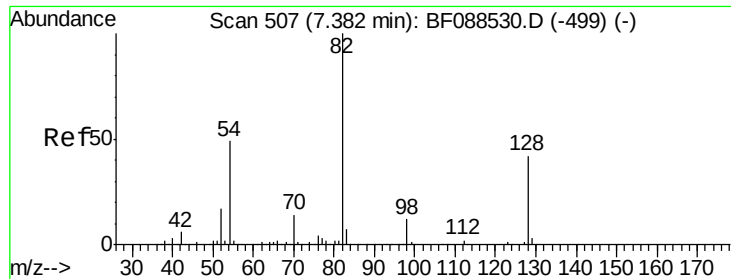
136 100

137 11.3 9.1 13.7

54 9.1 6.6 10.0

68 7.3 5.1 7.7





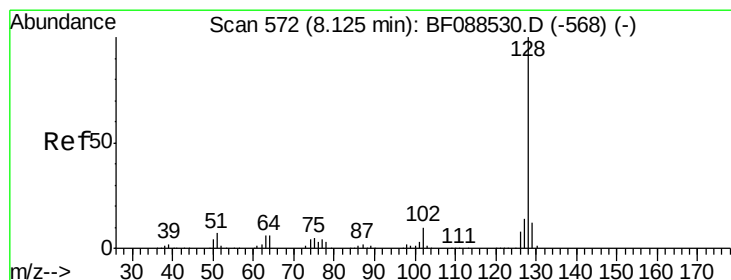
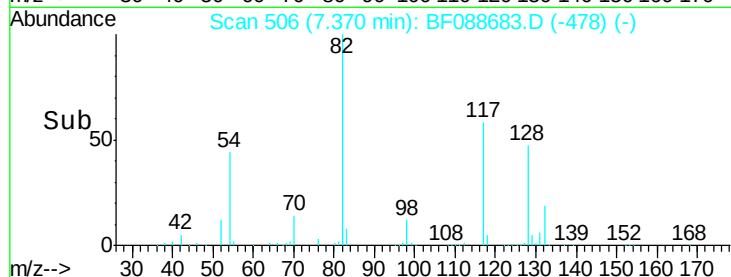
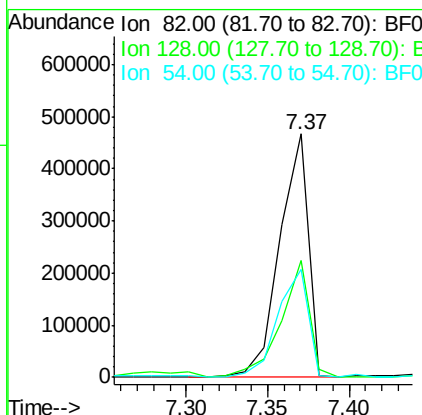
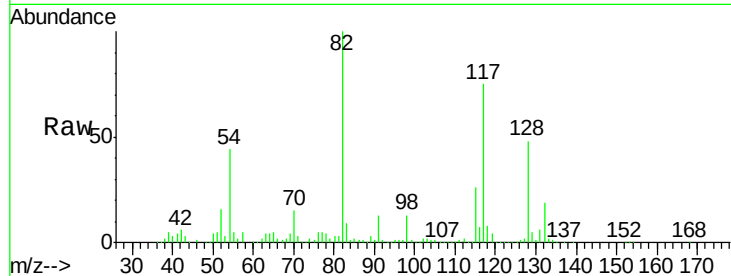
#23
 Nitrobenzene-d5
 Concen: 86.32 ng
 RT: 7.37 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :
 F12-B1(5-11)C

Tot Ion	82	Resp	569149
Ion Ratio	100	Lower	Upper
128	47.8	35.9	53.9
54	44.2	40.9	61.3

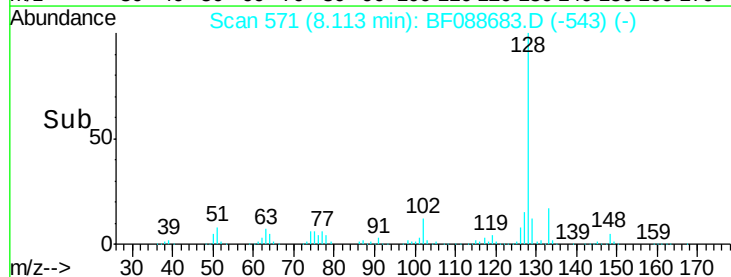
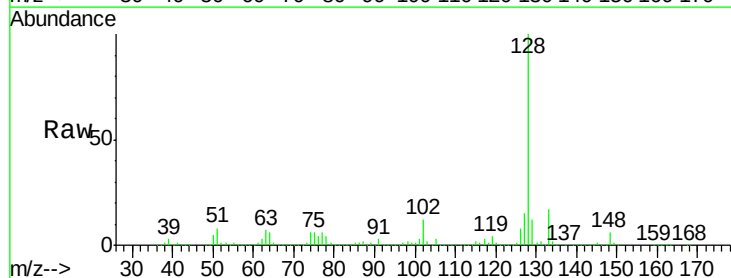
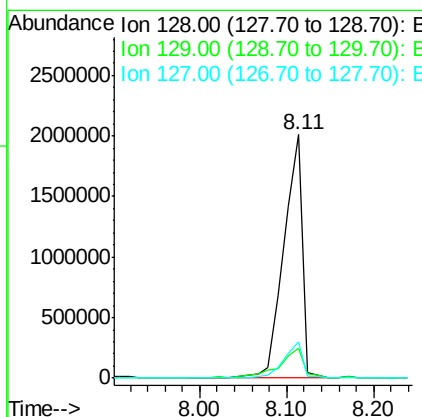
Manual Integrations

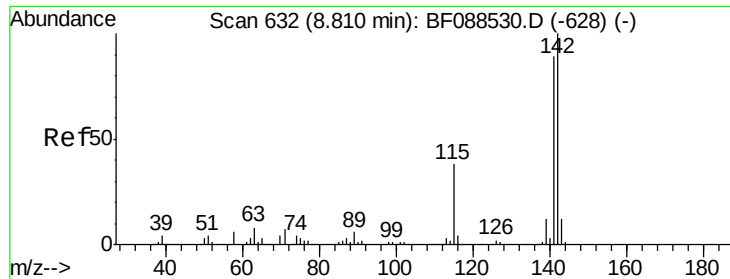
umangi
 7/5/2016 7:50:48 PM



#31
 Naphthalene
 Concen: 174.85 ng
 RT: 8.11 min Scan# 571
 Delta R.T. 0.02 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Tgt Ion	128	Resp	2978553
Ion Ratio	100	Lower	Upper
129	12.5	9.4	14.2
127	14.9	10.9	16.3





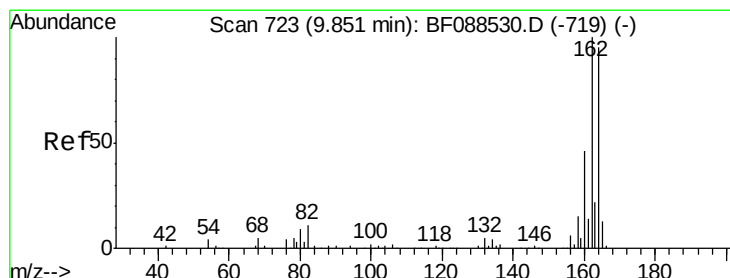
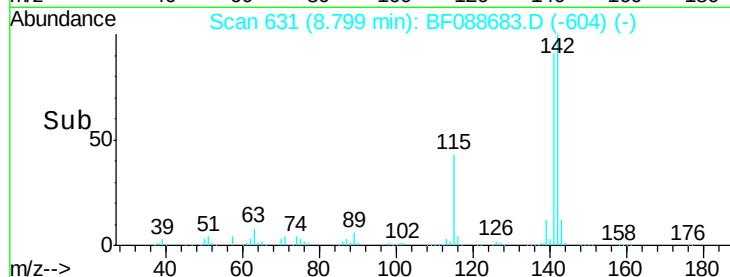
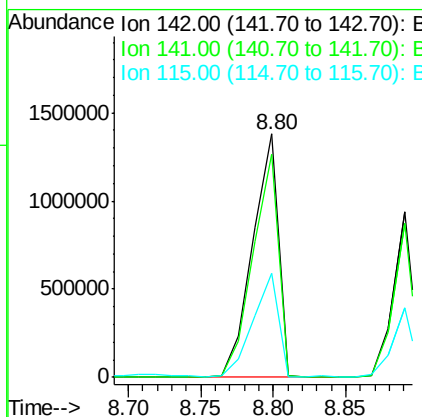
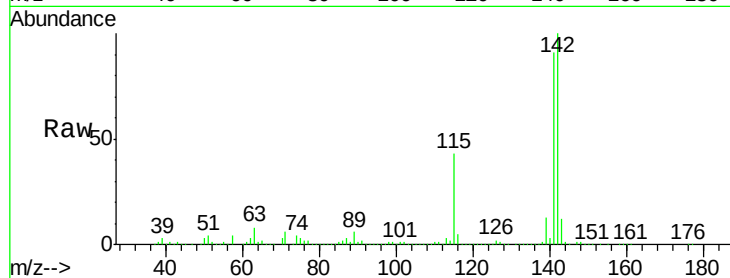
#37
2-Methylnaphthalene
Concen: 154.98 ng
RT: 8.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

Tot Ion:142 Resp: 1699927
Ion Ratio Lower Upper
142 100
141 91.4 71.0 106.6
115 42.9 22.6 33.8#

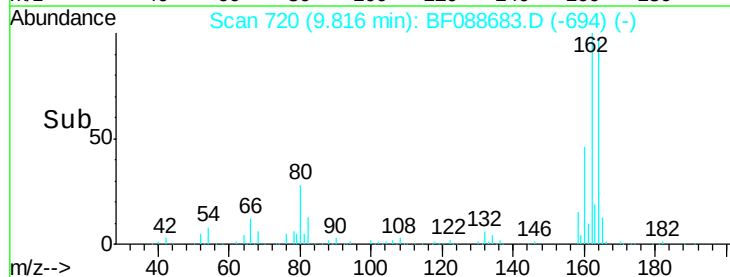
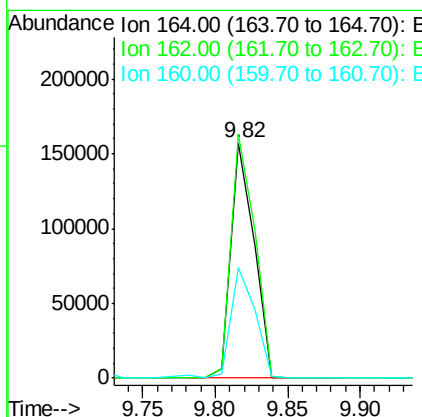
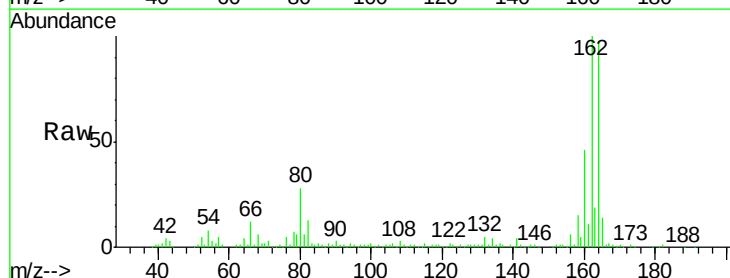
Manual Integrations

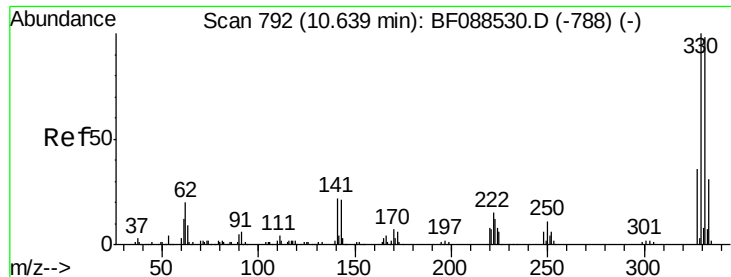
umangi
7/5/2016 7:50:48 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.82 min Scan# 720
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Tgt Ion:164 Resp: 173456
Ion Ratio Lower Upper
164 100
162 103.6 85.4 128.2
160 47.3 39.5 59.3





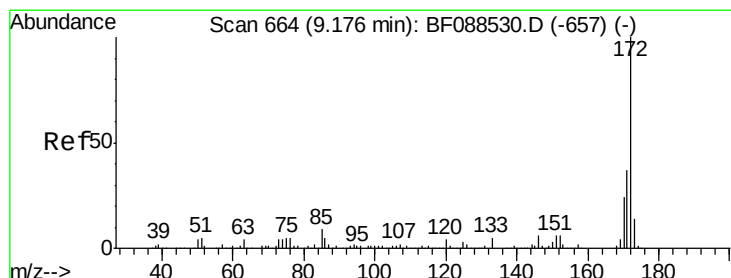
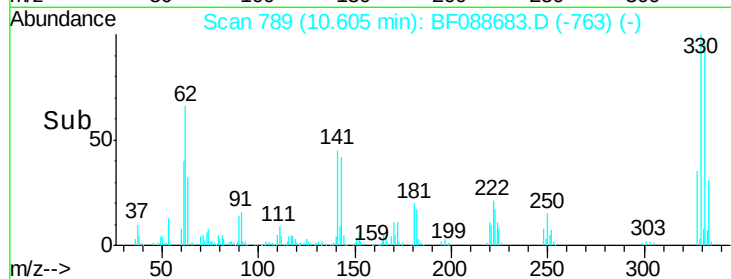
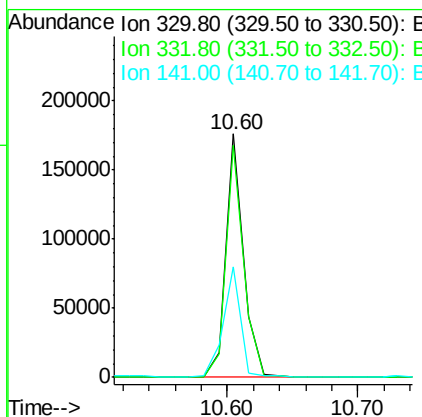
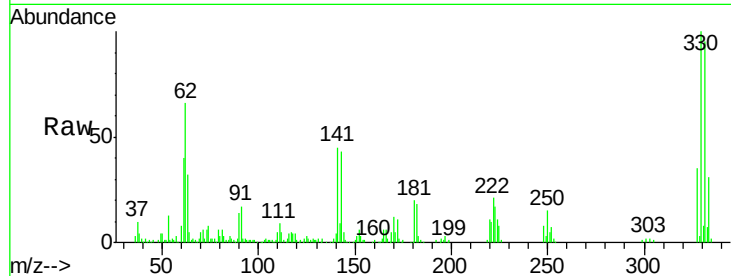
#41
 2,4,6-Tribromophenol
 Concen: 103.06 ng
 RT: 10.60 min Scan# 789
 Delta R.T. 0.00 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :
 F12-B1(5-11)C

Tot Ion	Ratio	Resp	Lower	Upper
330	100	166005		
332	95.8	0.0	0.0	0.0
141	44.9	0.0	0.0	0.0

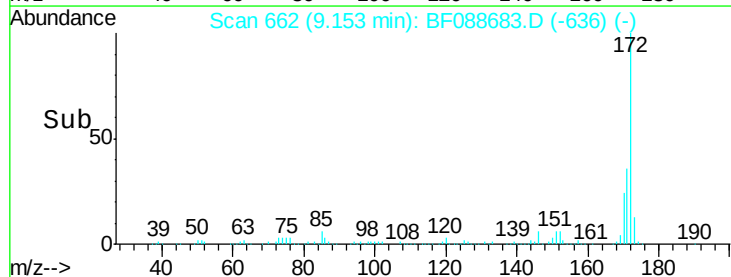
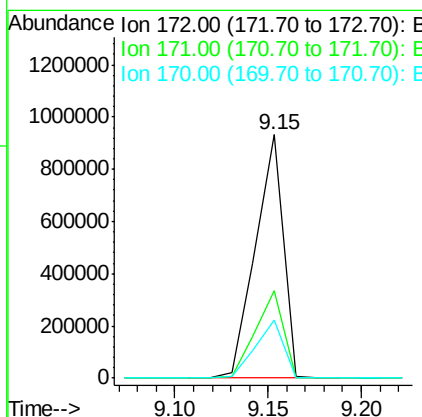
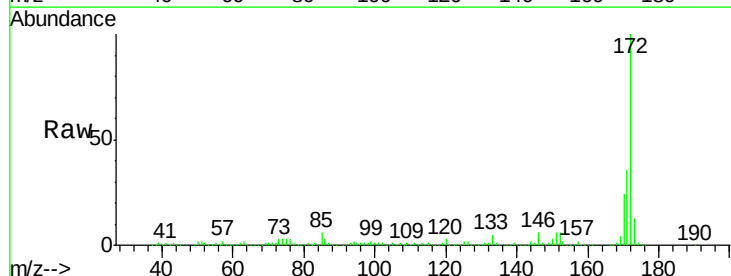
Manual Integrations

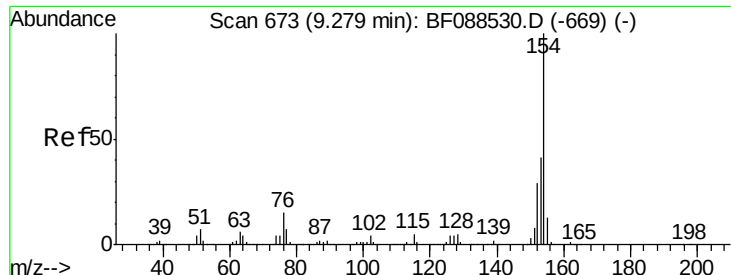
umangi
 7/5/2016 7:50:48 PM



#44
 2-Fluorobiphenyl
 Concen: 87.14 ng
 RT: 9.15 min Scan# 662
 Delta R.T. 0.00 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	956944		
171	36.0	28.6	43.0	
170	24.1	19.2	28.8	





#45

1,1'-Biphenyl

Concen: 6.16 ng

RT: 9.24 min Scan# 670

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

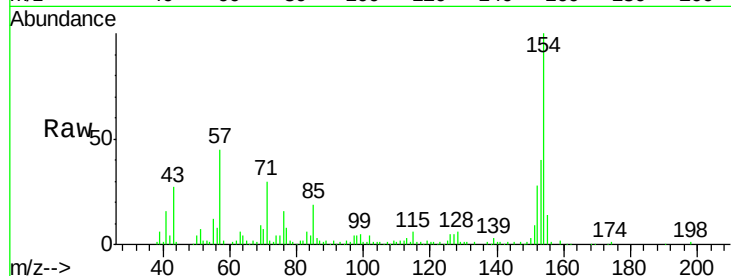
F12-B1(5-11)C

Tot Ion:	154	Resp:	88476
Ion Ratio	Lower	Upper	
154	100		
153	40.1	20.6	60.6
76	16.2	0.0	35.1

Manual Integrations

umangi

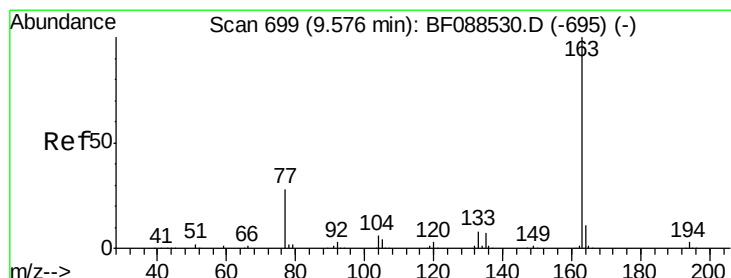
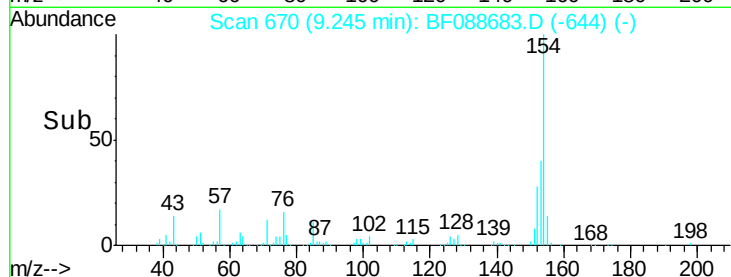
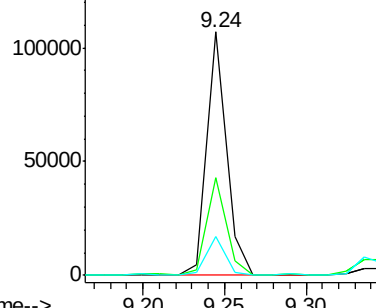
7/5/2016 7:50:48 PM



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): BF0



#49

Dimethylphthalate

Concen: 7.76 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.01 min

Lab File: BF088683.D

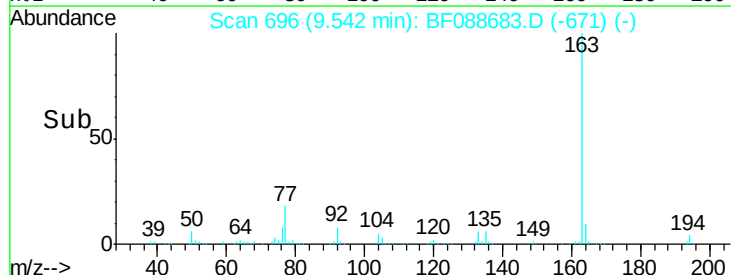
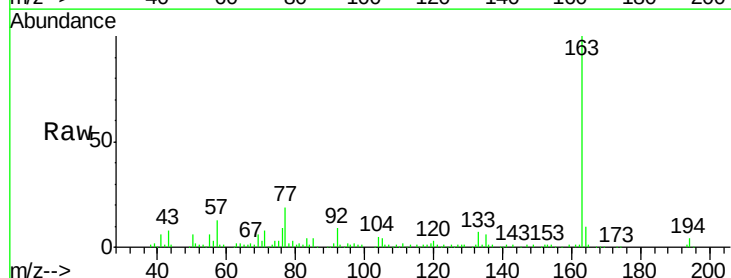
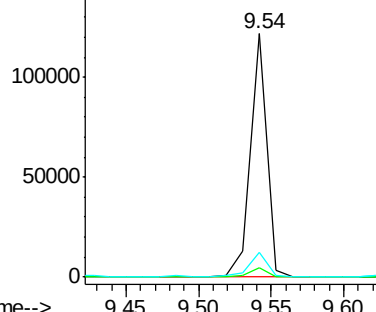
Acq: 4 Jul 2016 9:13

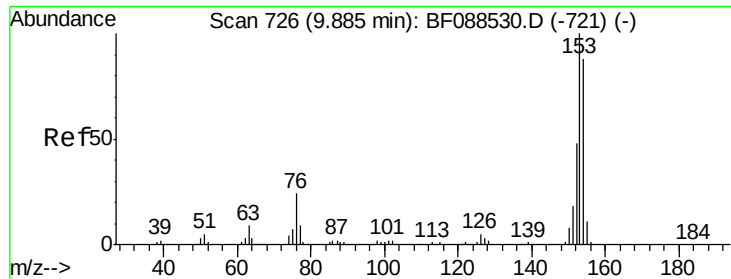
Tgt Ion:	163	Resp:	95867
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.8	4.2
164	10.3	8.3	12.5

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: 20.18 ng

RT: 9.85 min Scan# 723

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

F12-B1(5-11)C

Tot Ion:154 Resp: 221887

Ion Ratio Lower Upper

154 100

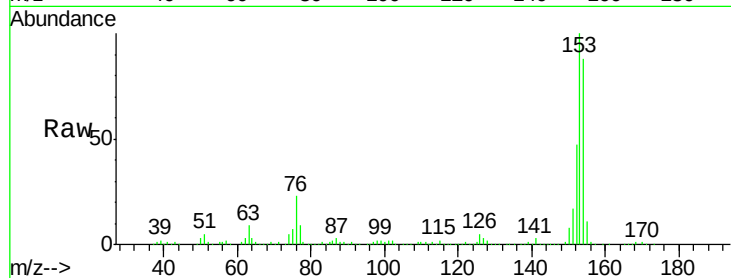
153 113.8 89.5 134.3

152 54.0 42.7 64.1

Manual Integrations

umangi

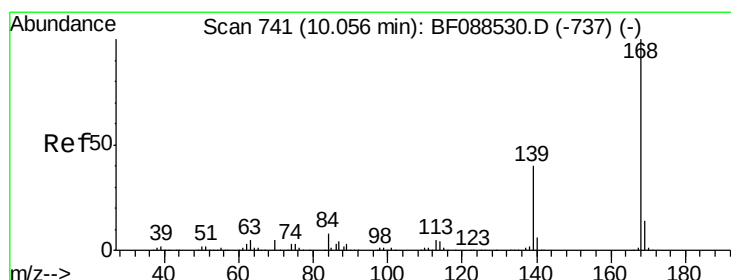
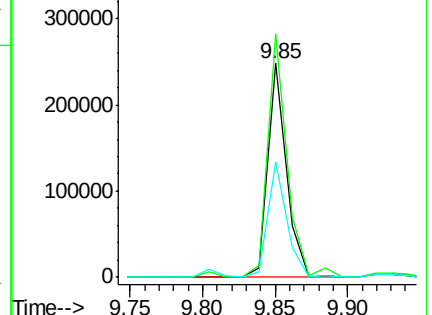
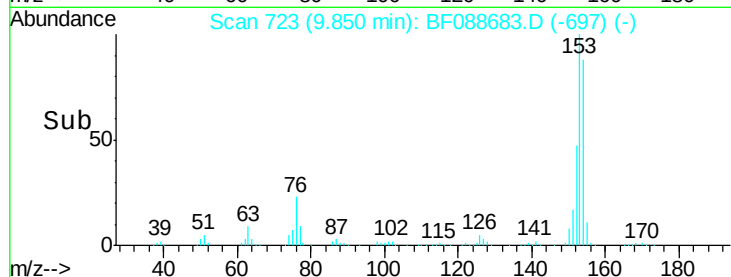
7/5/2016 7:50:48 PM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 16.43 ng

RT: 10.02 min Scan# 738

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

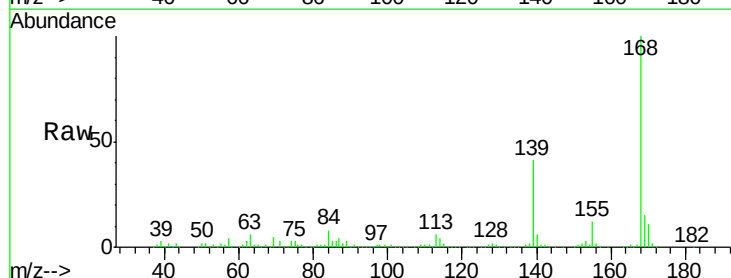
Tgt Ion:168 Resp: 236468

Ion Ratio Lower Upper

168 100

139 40.5 26.4 39.6#

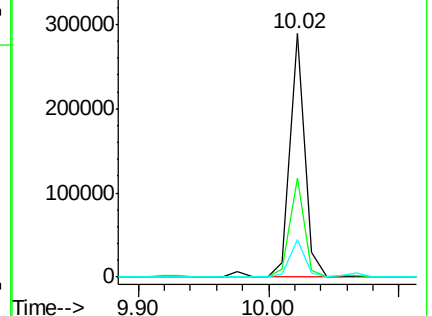
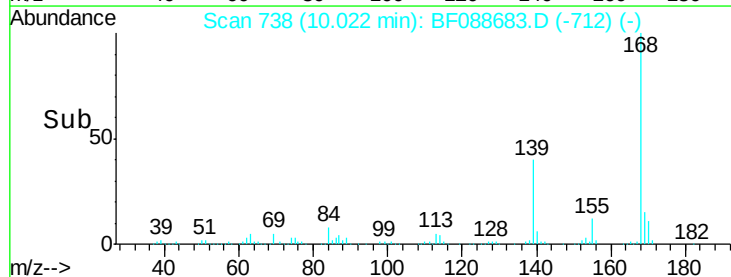
169 15.4 10.4 15.6

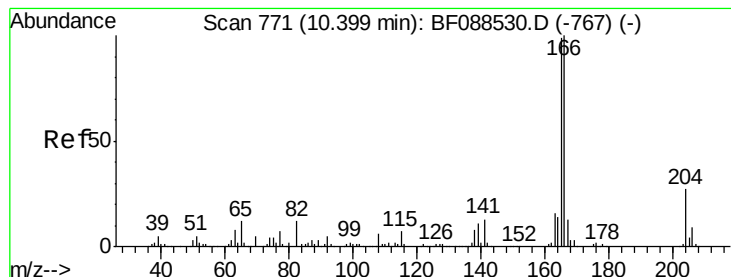


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 23.44 ng

RT: 10.36 min Scan# 768

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

F12-B1(5-11)C

Tot Ion:166 Resp: 259990

Ion Ratio Lower Upper

166 100

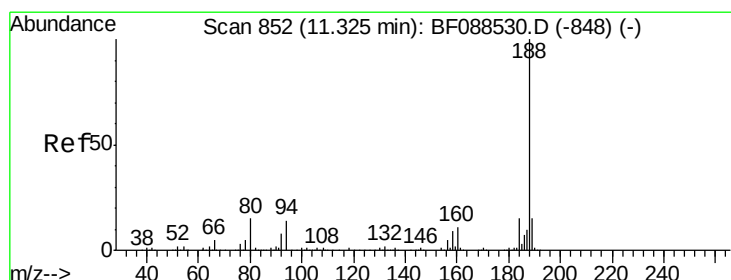
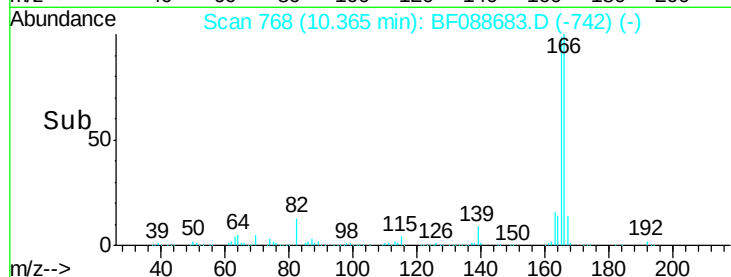
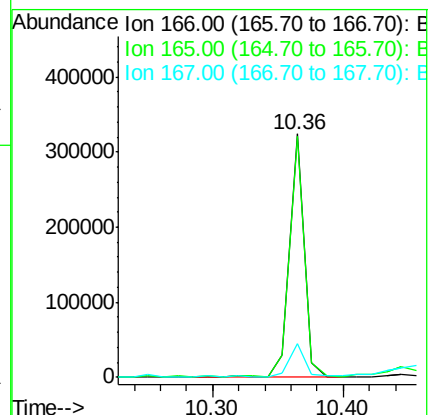
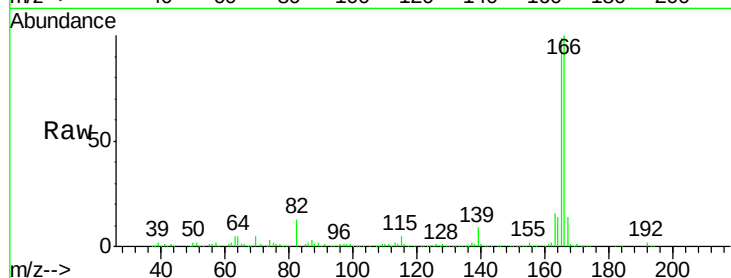
165 99.0 77.8 116.8

167 13.9 11.2 16.8

Manual Integrations

umangi

7/5/2016 7:50:48 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 850

Delta R.T. 0.01 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

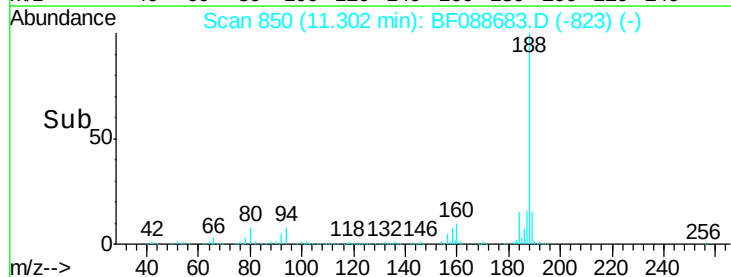
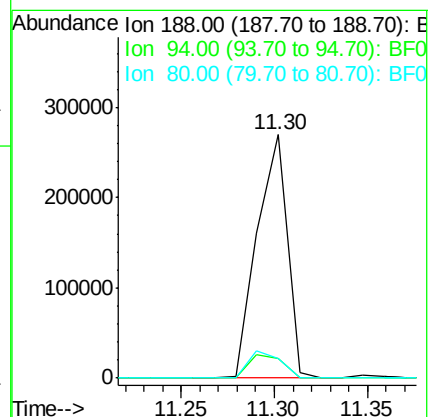
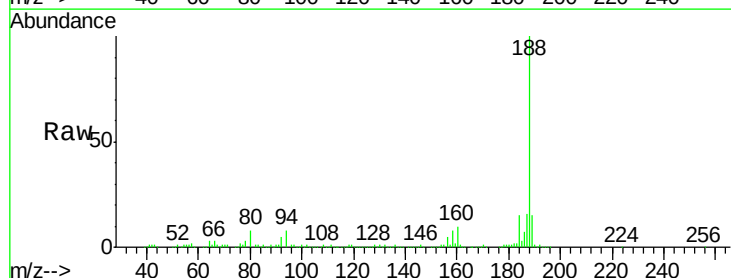
Tgt Ion:188 Resp: 301793

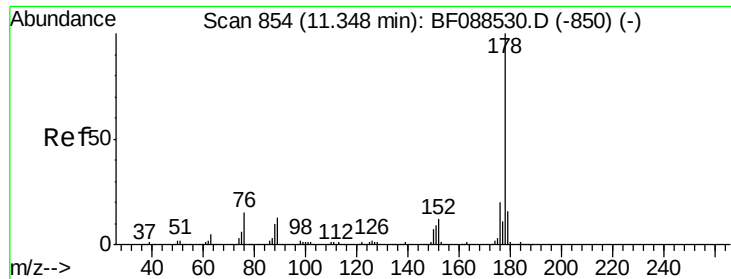
Ion Ratio Lower Upper

188 100

94 7.8 9.0 13.6#

80 8.3 10.0 15.0#





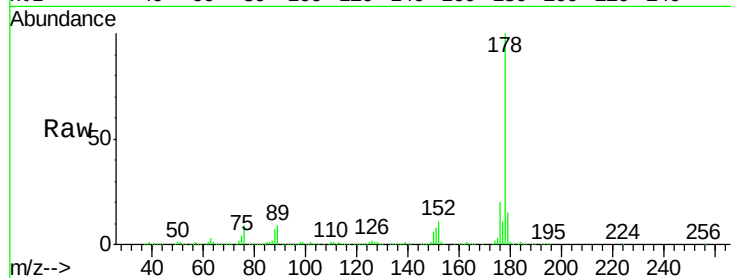
#70
Phenanthrene
Concen: 40.72 ng
RT: 11.32 min Scan# 852
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

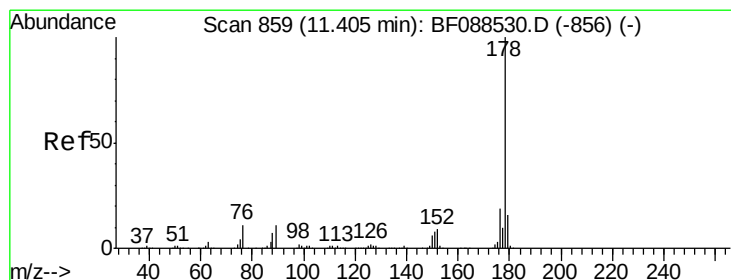
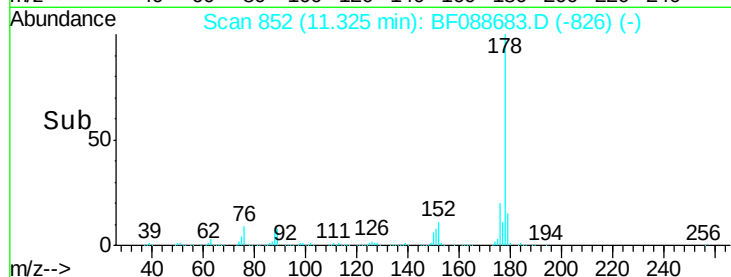
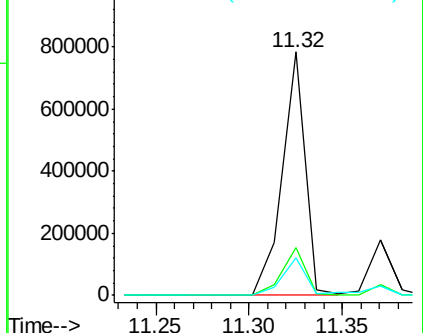
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.5	13.0	19.4

Manual Integrations

umangi
7/5/2016 7:50:48 PM



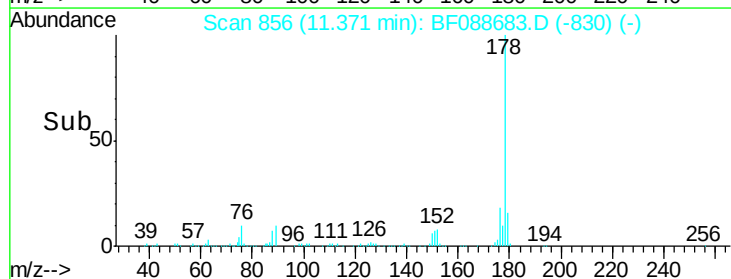
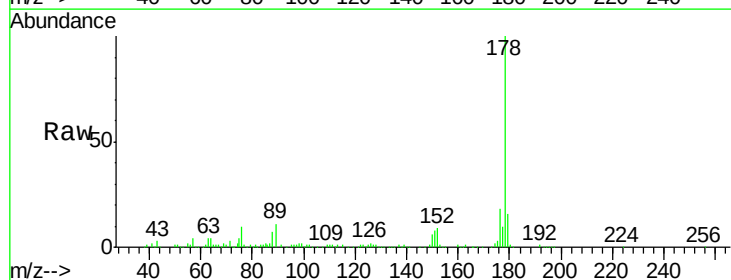
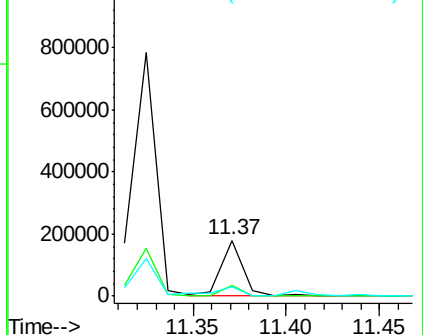
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

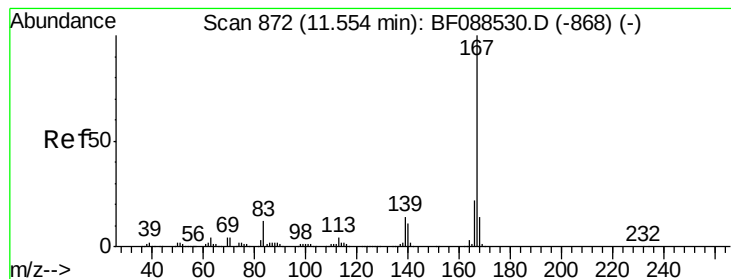


#71
Anthracene
Concen: 9.02 ng
RT: 11.37 min Scan# 856
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.6	23.4
179	15.8	12.8	19.2

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.75 ng

RT: 11.52 min Scan# 869

Delta R.T. -0.01 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

F12-B1(5-11)C

Tot Ion:167 Resp: 57847

Ion Ratio Lower Upper

167 100

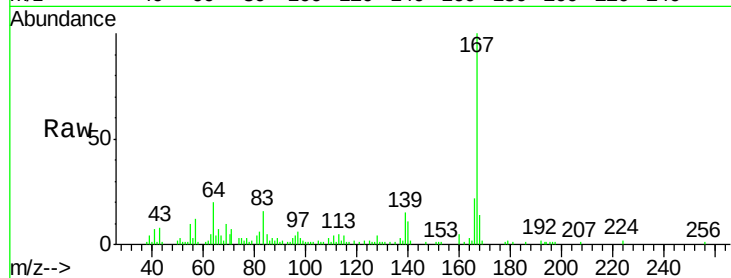
166 21.8 17.8 26.6

139 15.5 11.2 16.8

Manual Integrations

umangi

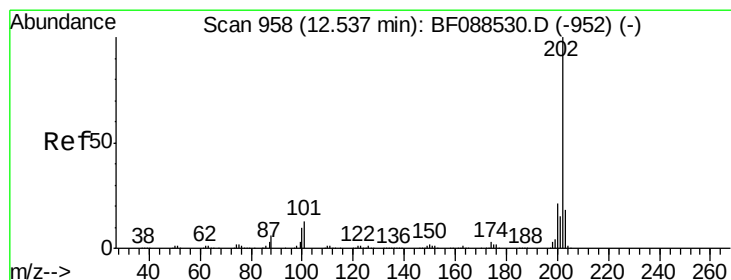
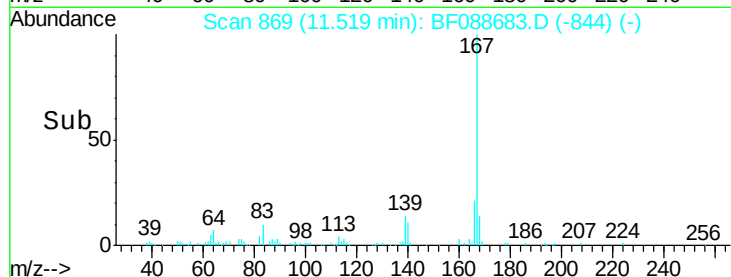
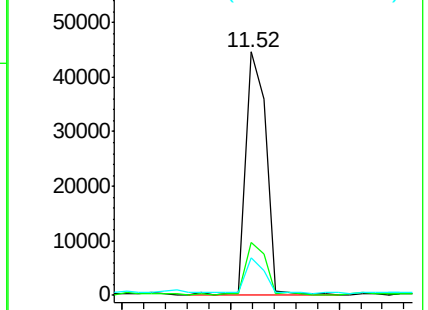
7/5/2016 7:50:48 PM



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 14.85 ng

RT: 12.52 min Scan# 957

Delta R.T. 0.02 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

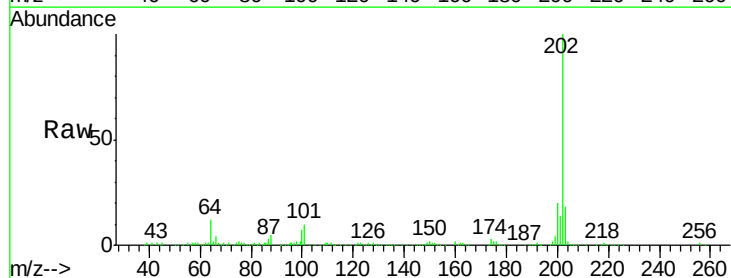
Tgt Ion:202 Resp: 248429

Ion Ratio Lower Upper

202 100

101 10.2 0.0 33.1

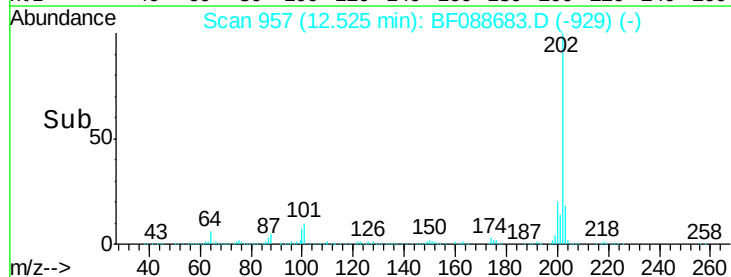
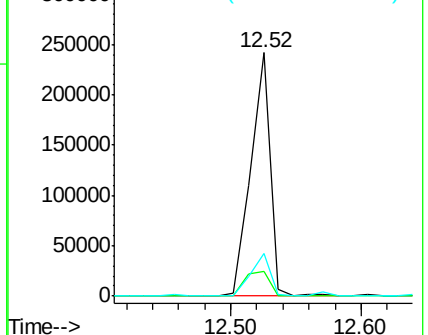
203 17.7 0.0 38.1

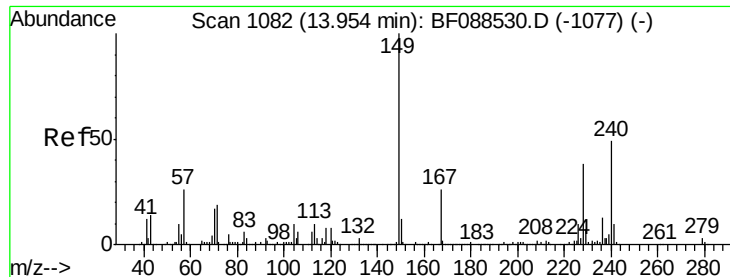


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

Instrument :

BNA_F

ClientSampleId :

F12-B1(5-11)C

Tot Ion:240 Resp: 213683

Ion Ratio Lower Upper

240 100

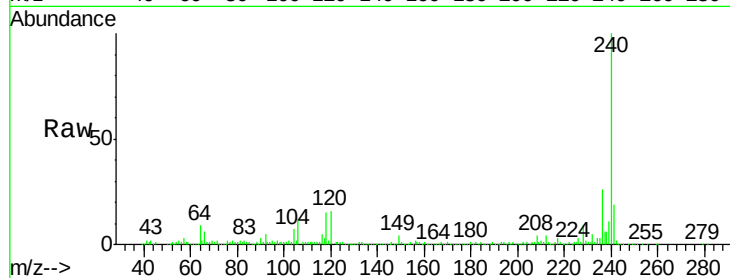
120 16.2 6.8 10.2#

236 25.9 20.2 30.2

Manual Integrations

umangi

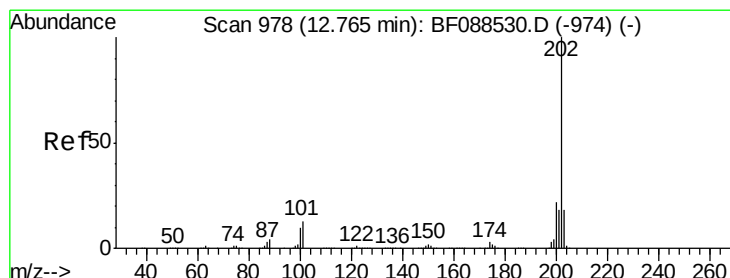
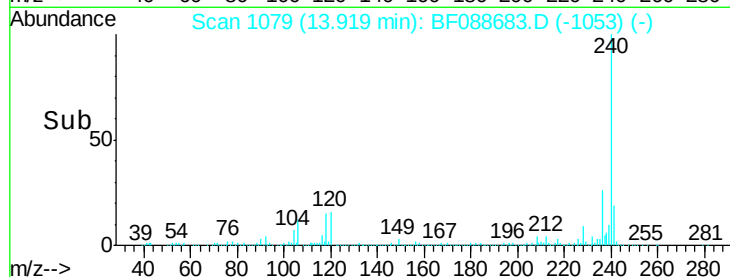
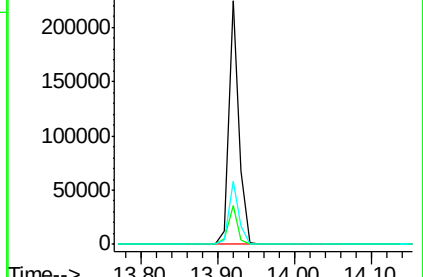
7/5/2016 7:50:48 PM



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

Pyrene

Concen: 9.58 ng

RT: 12.73 min Scan# 975

Delta R.T. 0.00 min

Lab File: BF088683.D

Acq: 4 Jul 2016 9:13

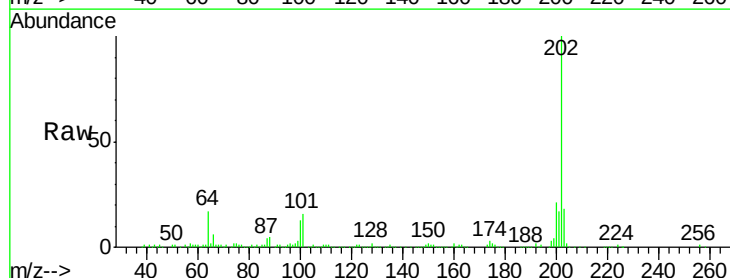
Tgt Ion:202 Resp: 173609

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

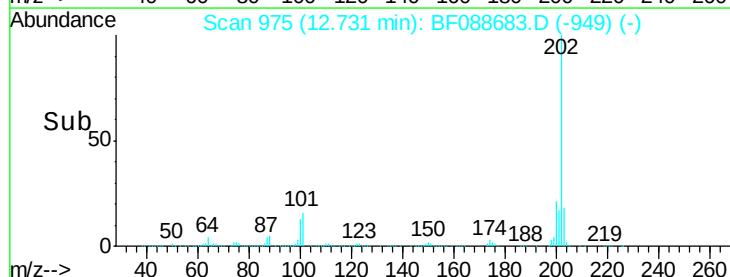
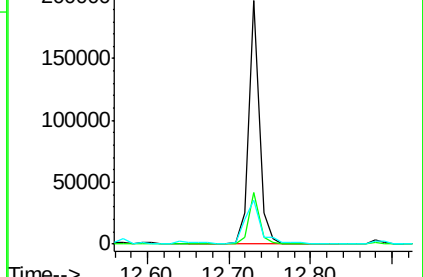
203 17.9 14.5 21.7

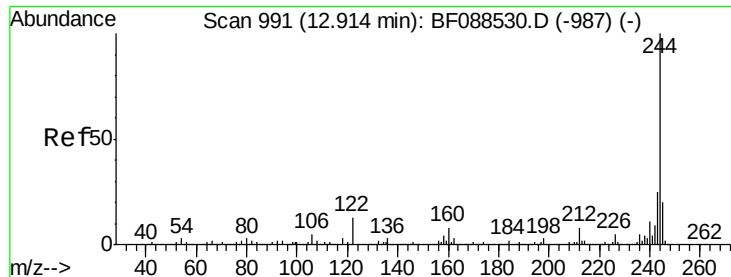


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





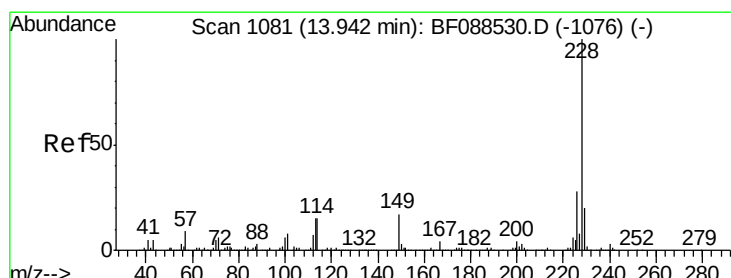
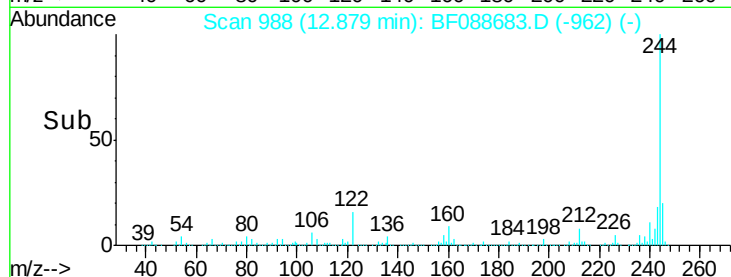
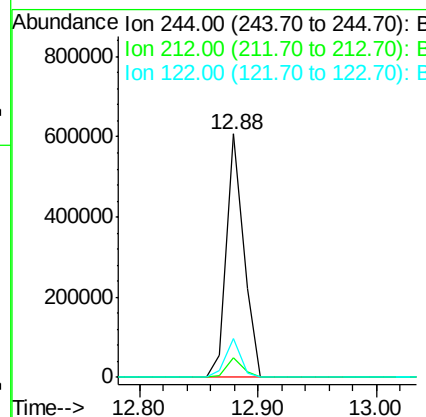
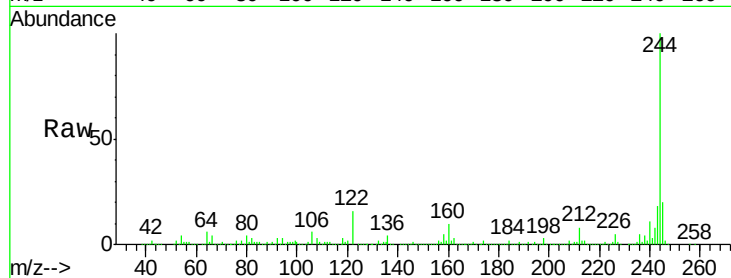
#78
 Terphenyl-d14
 Concen: 63.68 ng
 RT: 12.88 min Scan# 988
 Delta R.T. 0.00 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Instrument :
 BNA_F
 ClientSampleId :
 F12-B1(5-11)C

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.0	9.0
122	15.8	11.2	16.8

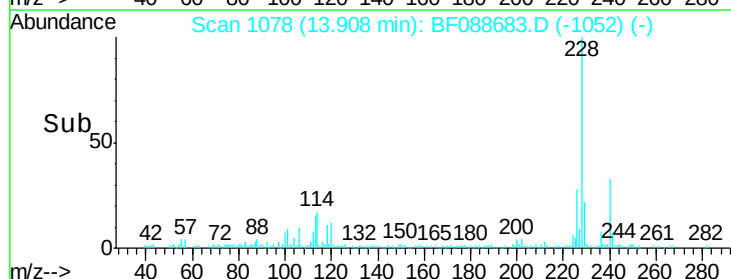
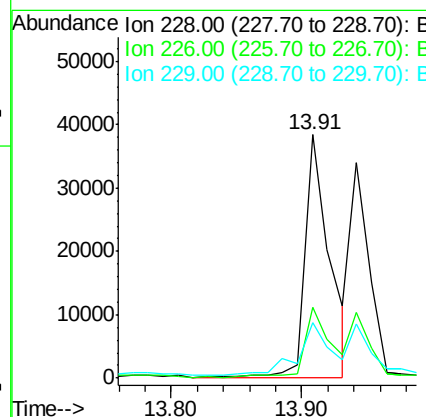
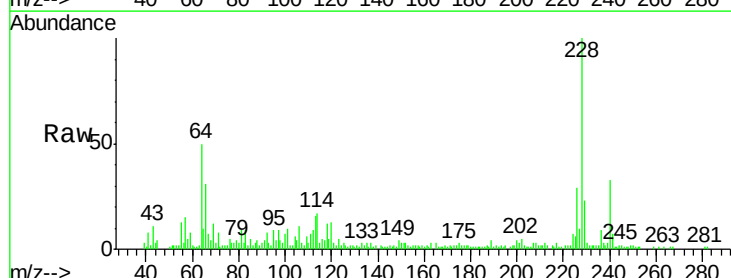
Manual Integrations

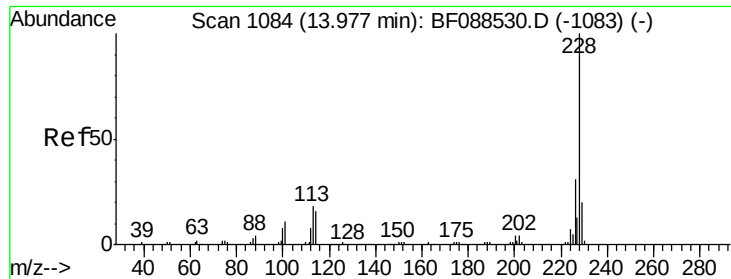
umangi
 7/5/2016 7:50:48 PM



#80
 Benzo(a)anthracene
 Concen: 3.73 ng
 RT: 13.91 min Scan# 1078
 Delta R.T. 0.00 min
 Lab File: BF088683.D
 Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.3	33.5
229	22.6	16.0	24.0





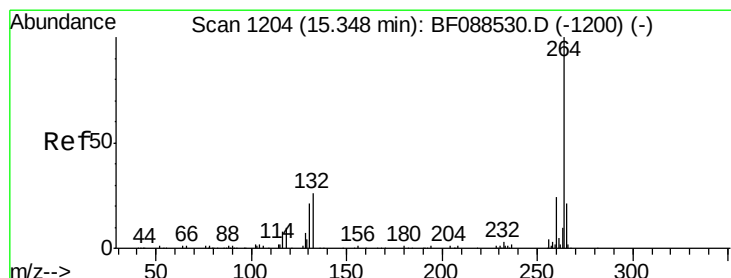
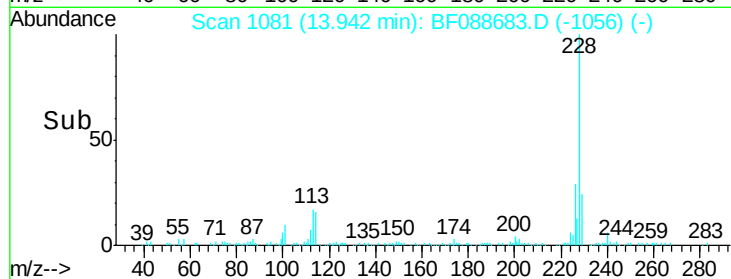
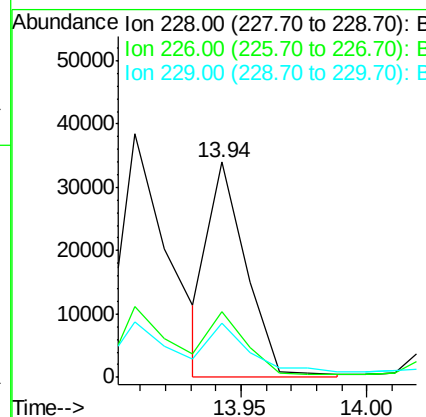
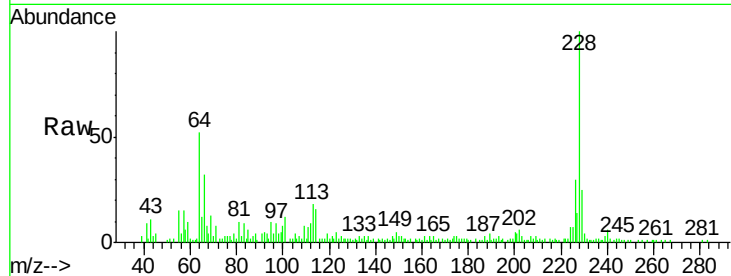
#82
Chrysene
Concen: 2.58 ng/ml
RT: 13.94 min Scan# 1081
Delta R.T. -0.01 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.2
229	25.3	16.3	24.5

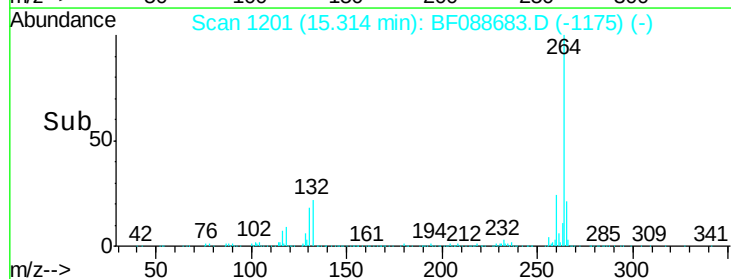
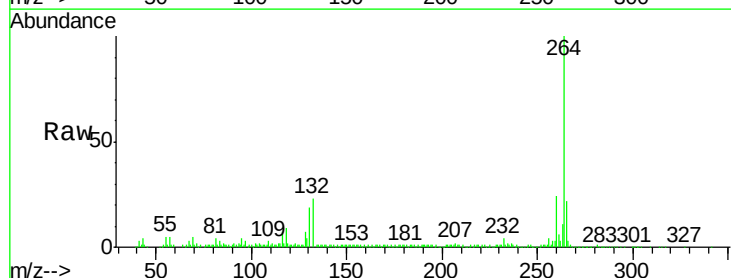
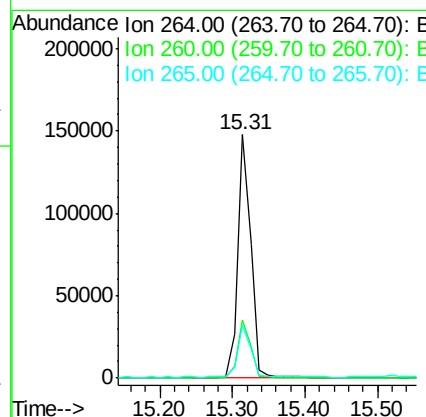
Manual Integrations

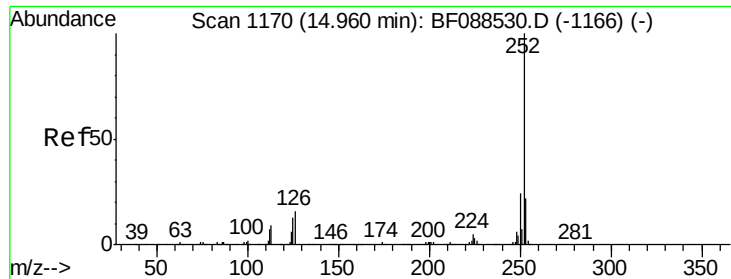
umangi
7/5/2016 7:50:48 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1201
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.8	16.9	25.3





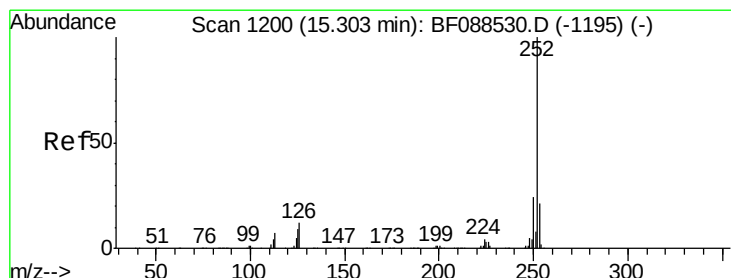
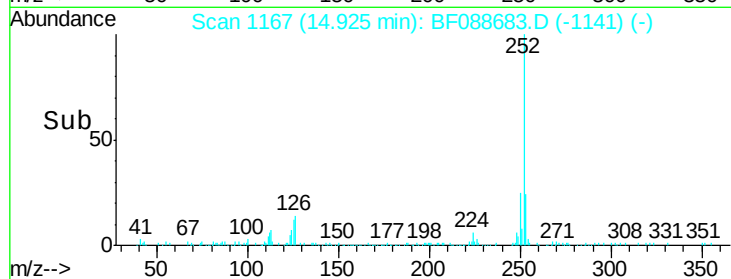
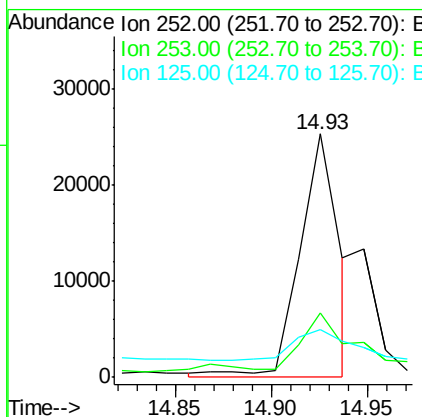
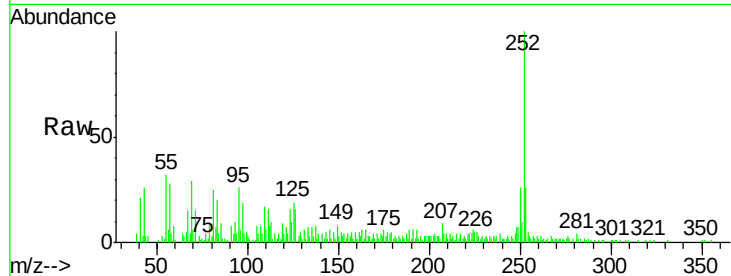
#87
Benzo(b)fluoranthene
Concen: 3.10 ng m
RT: 14.93 min Scan# 1167
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Instrument :
BNA_F
ClientSampleId :
F12-B1(5-11)C

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.3	17.4	26.2#
125	19.4	7.1	10.7#

Manual Integrations

umangi
7/5/2016 7:50:48 PM



#89
Benzo(a)pyrene
Concen: 2.13 ng
RT: 15.26 min Scan# 1196
Delta R.T. 0.00 min
Lab File: BF088683.D
Acq: 4 Jul 2016 9:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.9	26.9
125	20.2	12.5	18.7#

