

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
 Data File : BF090968.D
 Acq On : 1 Nov 2016 23:11
 Operator : UM/SJ
 Sample : H5411-05
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0

Manual Integrations
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 11/2/2016 5:42:56 PM

Quant Time: Nov 02 02:10:47 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	164427	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	647013	20.00	ng	-0.02
38) Acenaphthene-d10	9.78	164	314283	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	417125	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	347683	20.00	ng	-0.01
86) Perylene-d12	15.30	264	309689	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1059885	112.70	ng	0.00
7) Phenol-d6	6.38	99	1449504	114.25	ng	-0.01
23) Nitrobenzene-d5	7.30	82	900420	91.10	ng	-0.02
41) 2,4,6-Tribromophenol	10.57	330	254435	78.78	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1248696	69.77	ng	-0.01
78) Terphenyl-d14	12.84	244	730861	52.96	ng	-0.01

Target Compounds						Qvalue
31) Naphthalene	8.04	128	230912	7.63	ng	99
37) 2-Methylnaphthalene	8.74	142	72417	3.71	ng	# 90
48) Acenaphthylene	9.63	152	59753	2.29	ng	95
49) Dimethylphthalate	9.50	163	531198	25.30	ng	# 97
51) Acenaphthene	9.80	154	137852	7.68	ng	87
54) Dibenzofuran	9.98	168	111872	4.83	ng	# 91
57) Fluorene	10.32	166	128046	6.75	ng	# 91
70) Phenanthrene	11.29	178	1645868m	77.48	ng	
71) Anthracene	11.33	178	328347	14.68	ng	97
72) Carbazole	11.49	167	87508	4.43	ng	# 93
74) Fluoranthene	12.48	202	1747714	75.13	ng	90
77) Pyrene	12.70	202	1692749	76.93	ng	95
80) Benzo(a)anthracene	13.88	228	802824	43.51	ng	# 91
82) Chrysene	13.93	228	658969m	35.31	ng	
85) Indeno(1,2,3-cd)pyrene	16.64	276	283461	17.14	ng	# 89
87) Benzo(b)fluoranthene	14.91	252	849397m	40.79	ng	
88) Benzo(k)fluoranthene	14.92	252	217779m	13.23	ng	
89) Benzo(a)pyrene	15.24	252	591625	33.07	ng	# 88
90) Dibenzo(a,h)anthracene	16.64	278	84135	5.55	ng	# 87
91) Benzo(a,h,i)perylene	17.04	276	265367	18.60	ng	# 83

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

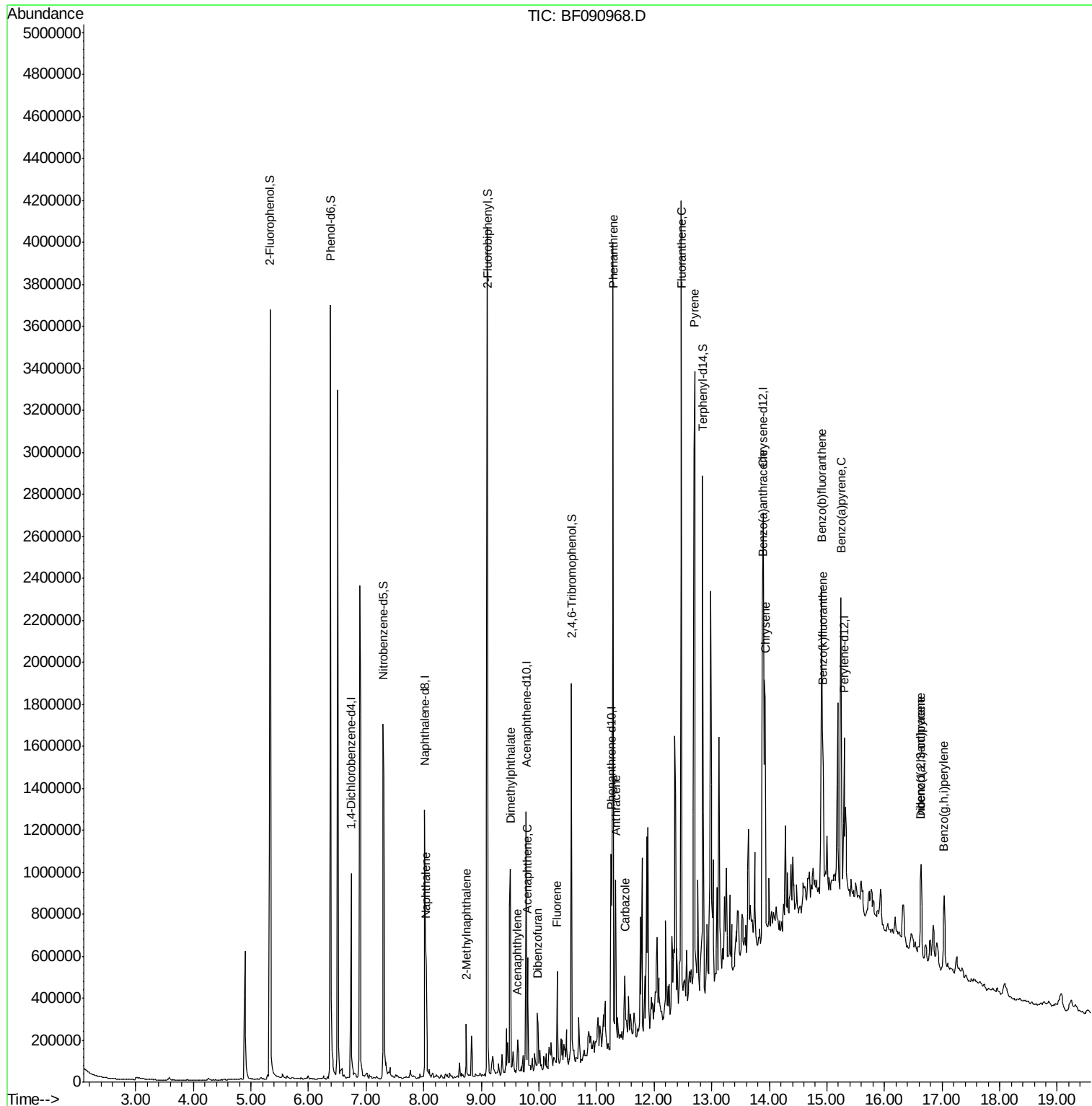
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090968.D
Acq On : 1 Nov 2016 23:11
Operator : UM/SJ
Sample : H5411-05
Misc :
ALS Vial : 22 Sample Multiplier: 1

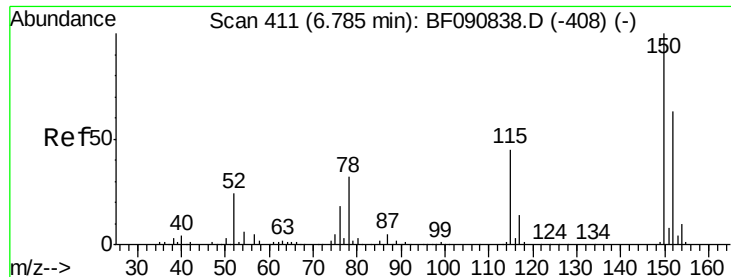
Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

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Quant Time: Nov 02 02:10:47 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

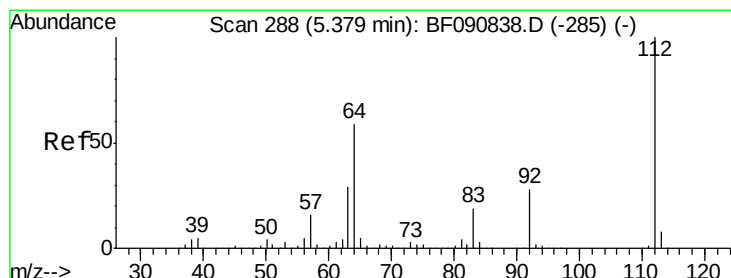
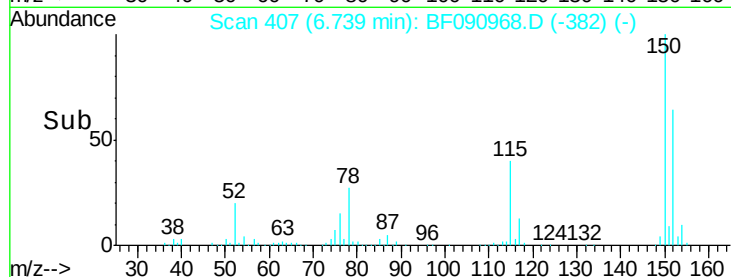
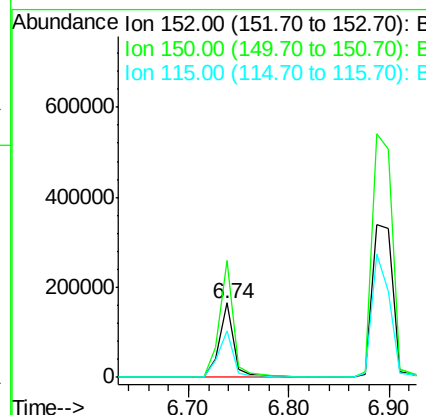
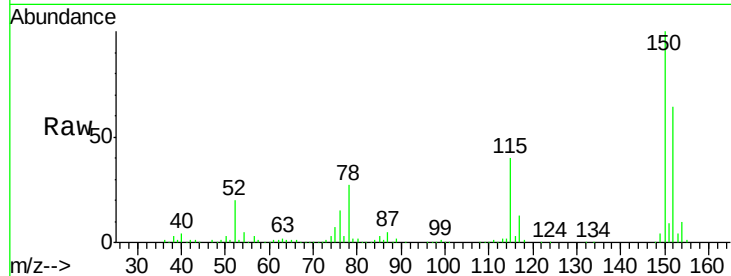
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	124.7	187.1
115	62.1	39.0	58.4

Manual Integrations
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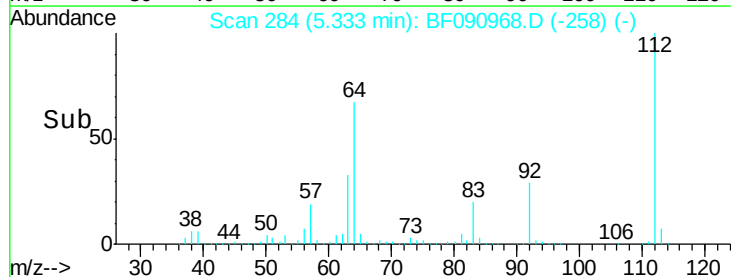
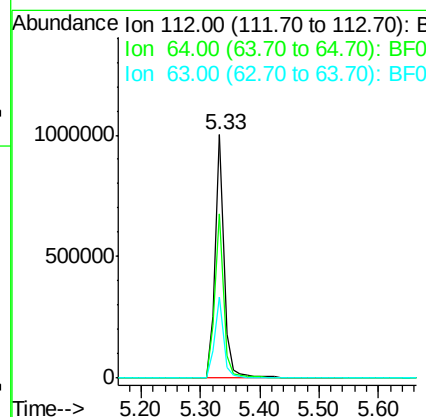
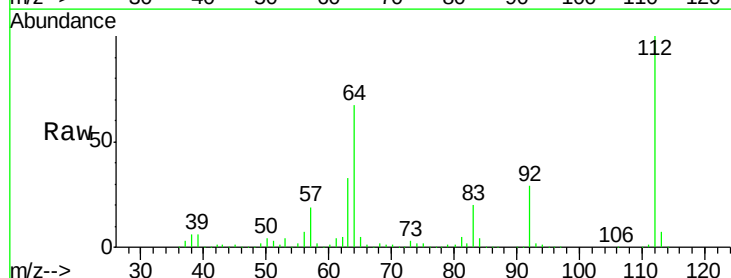
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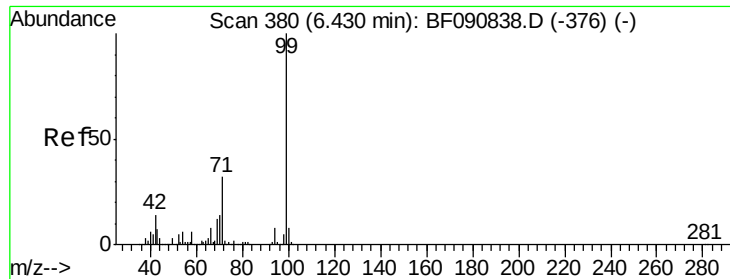


#5

2-Fluorophenol
Concen: 112.70 ng
RT: 5.33 min Scan# 284
Delta R.T. -0.00 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.3	39.7	59.5
63	33.4	17.4	26.0





#7

Phenol-d6

Concen: 114.25 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0

Tot Ion: 99 Resp: 1449504

Ion Ratio Lower Upper

99 100

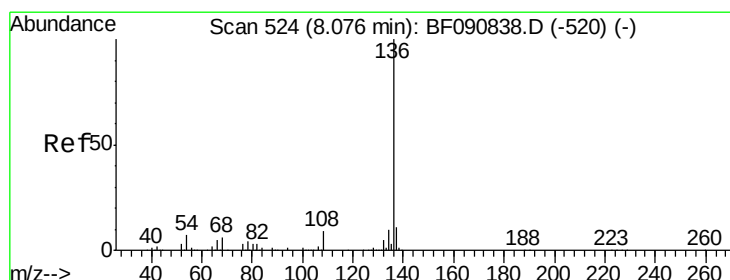
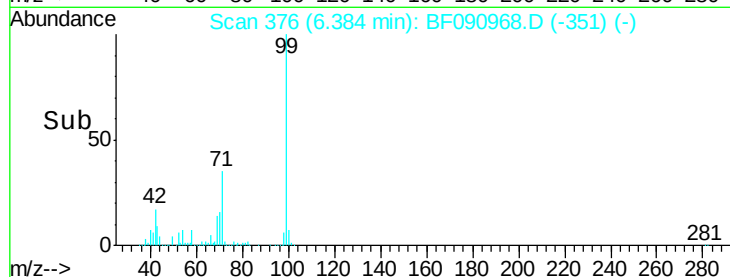
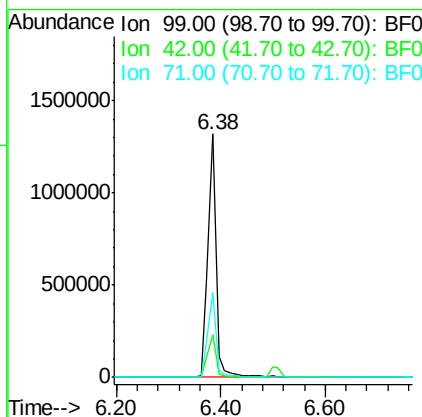
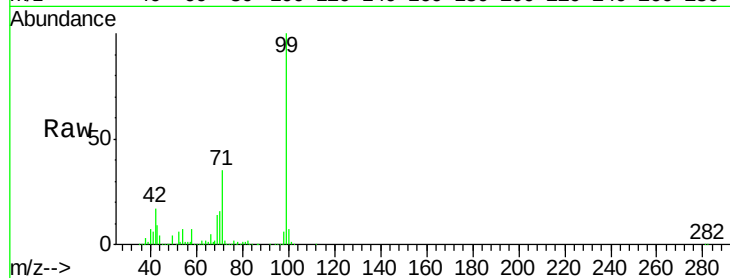
42 17.3 13.7 20.5

71 35.1 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. -0.02 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Tgt Ion: 136 Resp: 647013

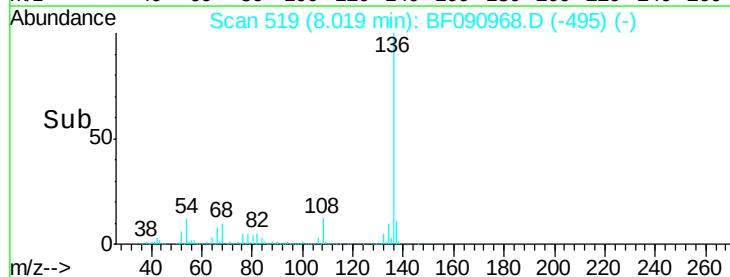
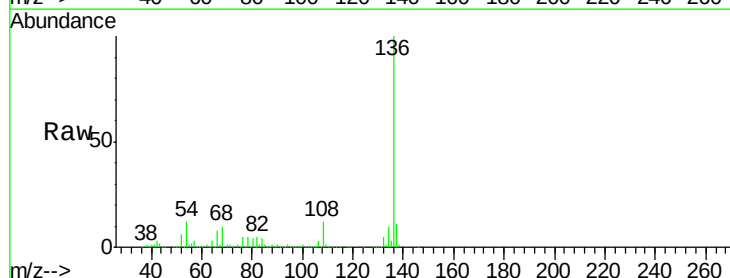
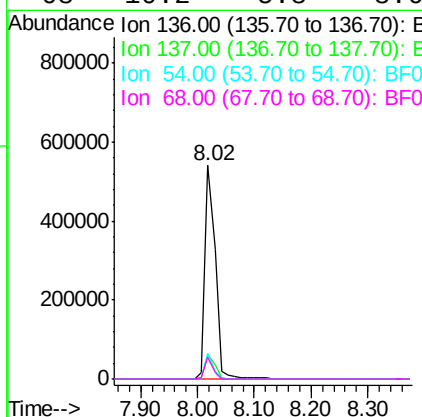
Ion Ratio Lower Upper

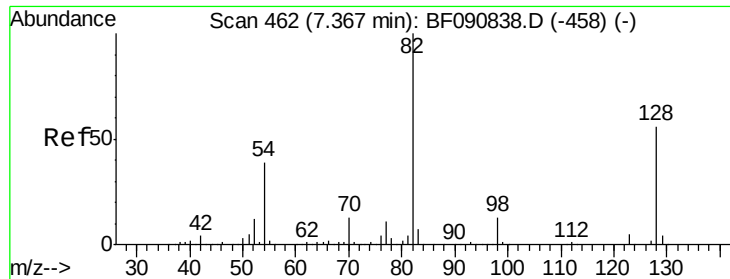
136 100

137 11.4 9.0 13.6

54 12.0 8.2 12.2

68 10.2 5.8 8.6#





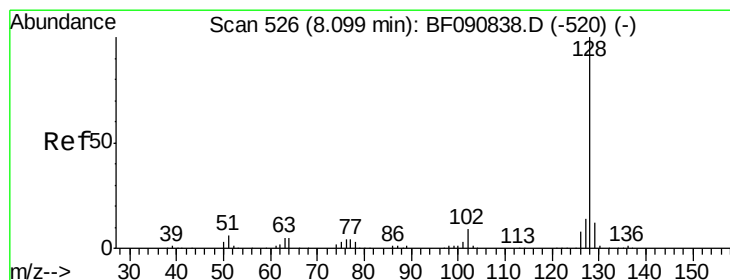
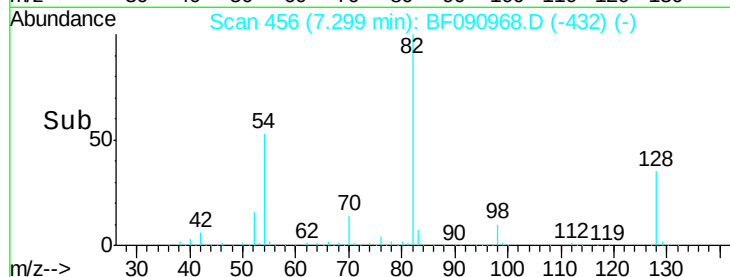
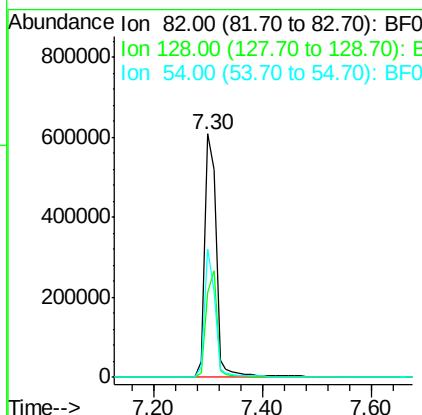
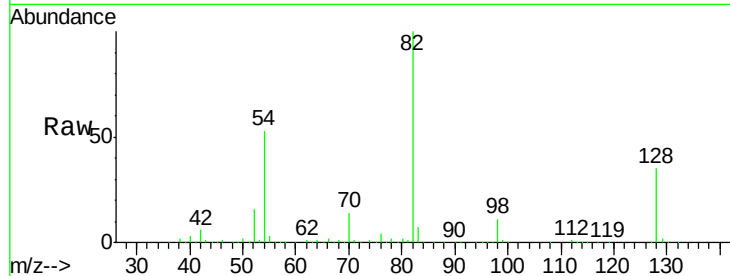
#23
 Nitrobenzene-d5
 Concen: 91.10 ng
 RT: 7.30 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
82	100		
128	34.9	51.0	76.6#
54	52.6	47.5	71.3

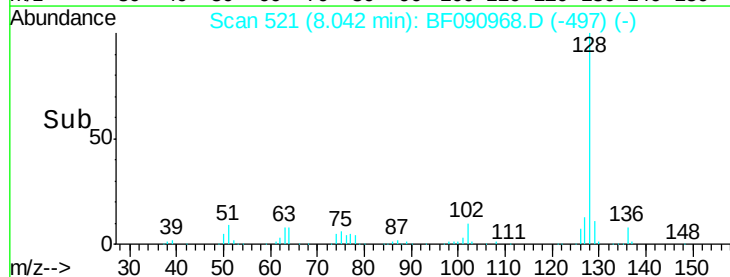
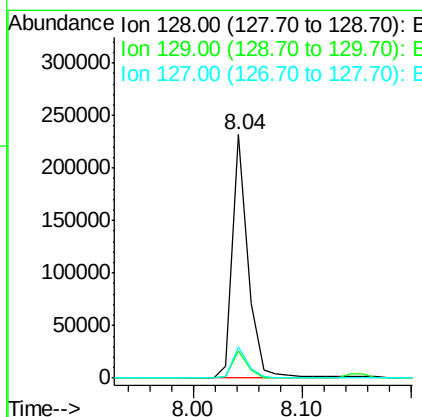
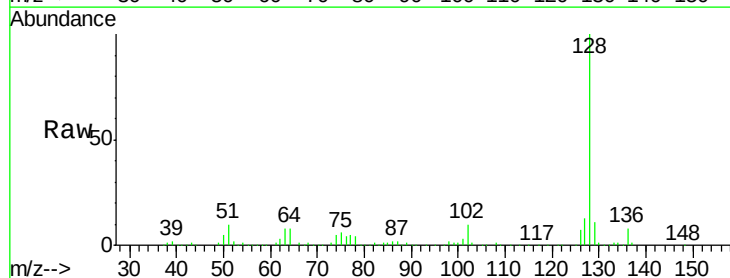
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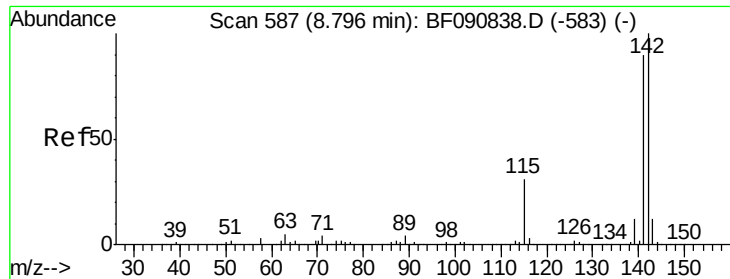
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#31
 Naphthalene
 Concen: 7.63 ng
 RT: 8.04 min Scan# 521
 Delta R.T. -0.02 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.4	12.6
127	12.9	9.9	14.9





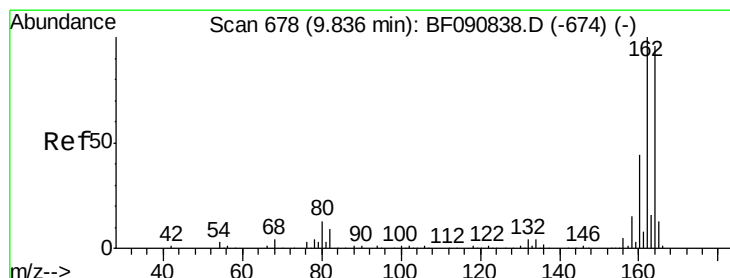
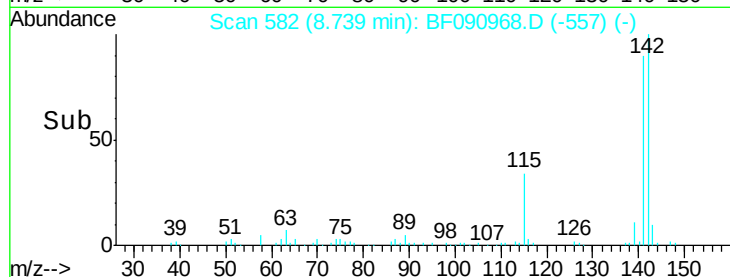
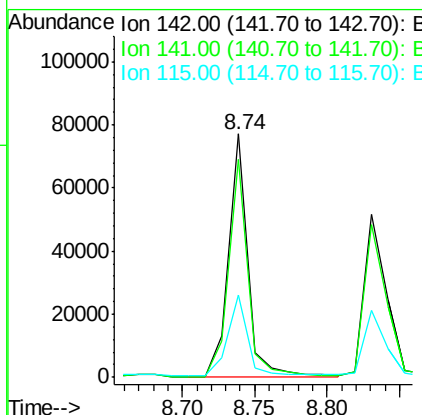
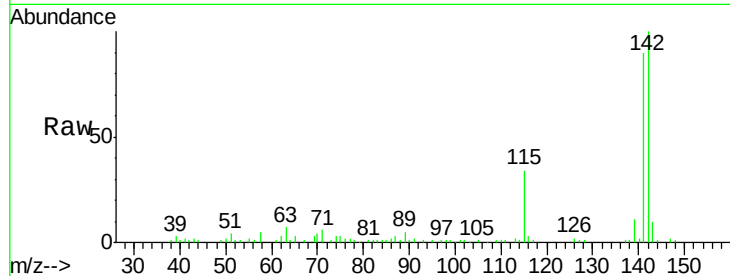
#37
 2-Methylnaphthalene
 Concen: 3.71 ng
 RT: 8.74 min Scan# 582
 Delta R.T. -0.01 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Instrument :
 BNA_F
 ClientSampled :
 SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	67.5	101.3
115	33.8	18.2	27.2

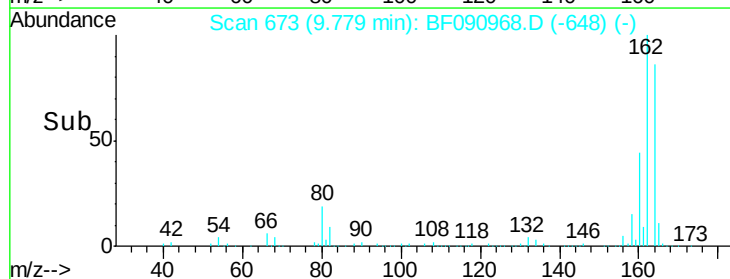
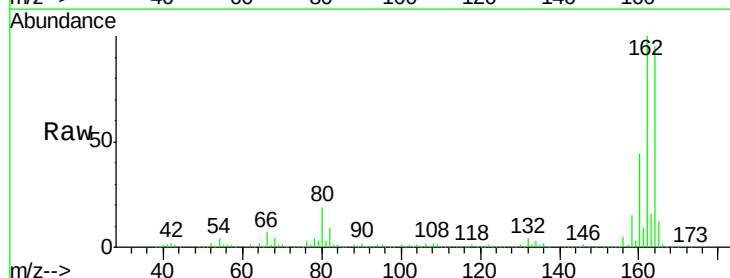
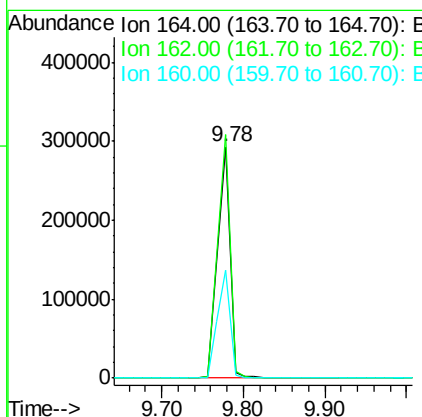
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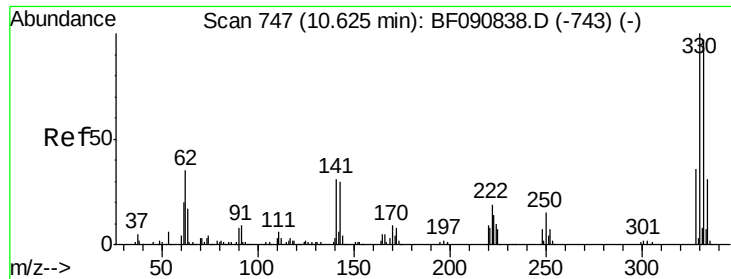
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.78 min Scan# 673
 Delta R.T. -0.01 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.5	75.2	112.8
160	46.7	31.5	47.3





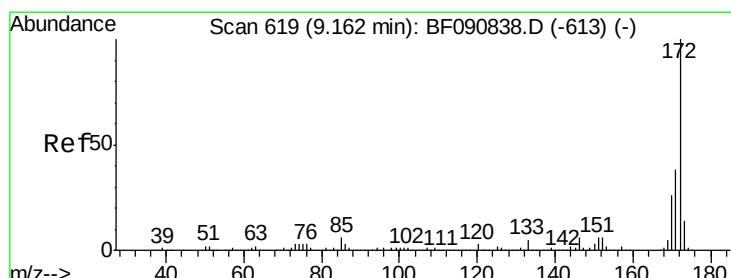
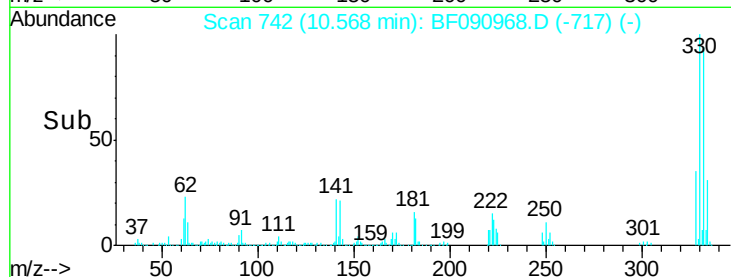
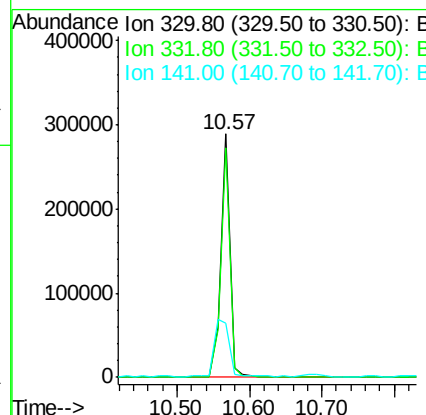
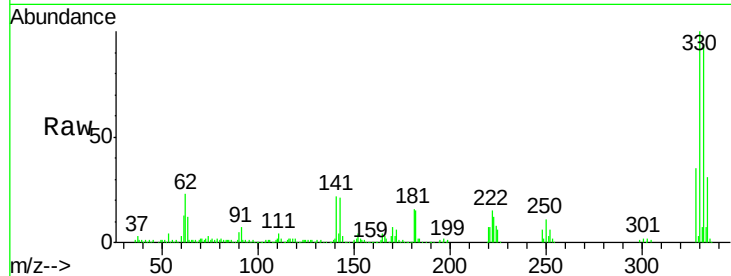
#41
 2,4,6-Tribromophenol
 Concen: 78.78 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.01 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-8.5-9.0

Tot Ion	Ratio	Resp	Lower	Upper
330	100	254435		
332	94.4		76.6	114.8
141	38.7		29.7	44.5

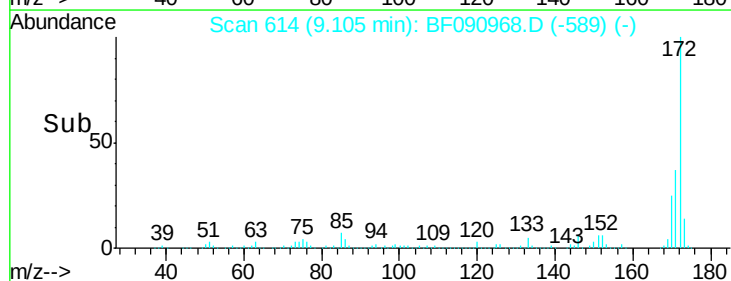
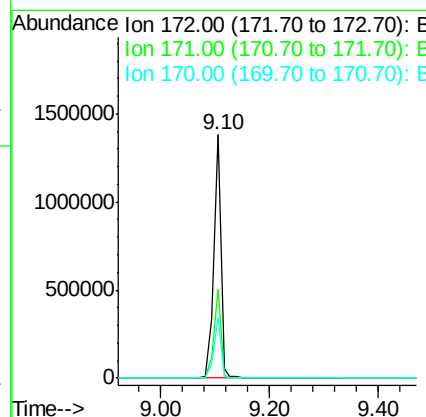
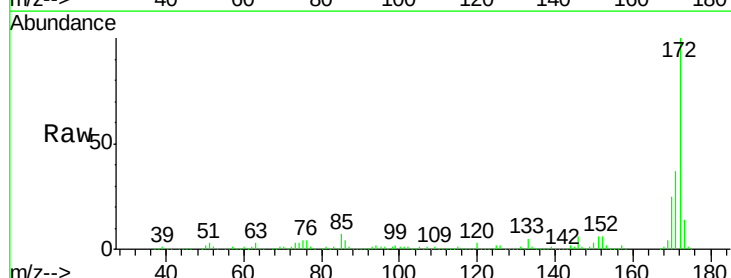
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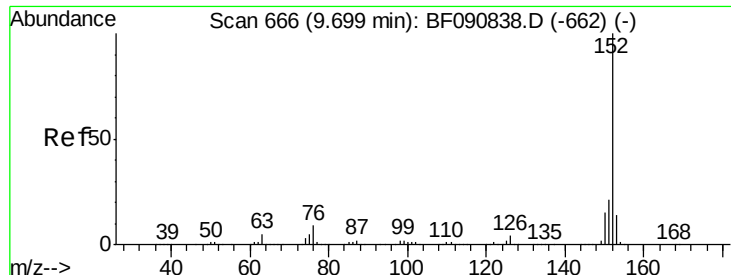
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#44
 2-Fluorobiphenyl
 Concen: 69.77 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: BF090968.D
 Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1248696		
171	36.6		26.1	39.1
170	25.1		17.4	26.2





#48

Acenaphthylene

Concen: 2.29 ng

RT: 9.63 min Scan# 660

Delta R.T. -0.02 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

ClientSampleId :

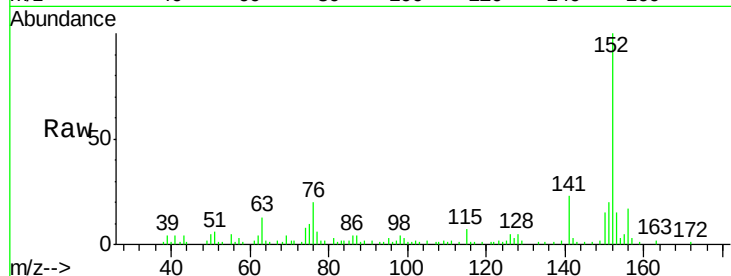
SB-02-8.5-9.0

Tot Ion:	152	Resp:	59753
Ion Ratio	Lower	Upper	
152	100		
151	20.3	14.6	22.0
153	15.4	10.3	15.5

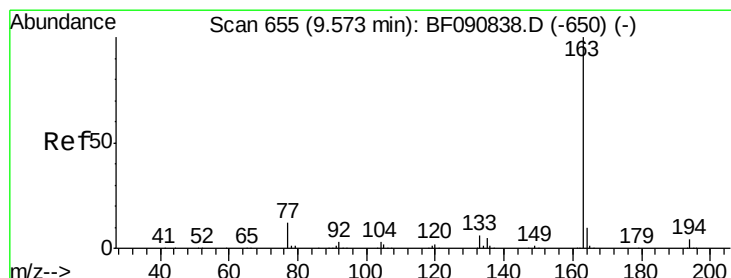
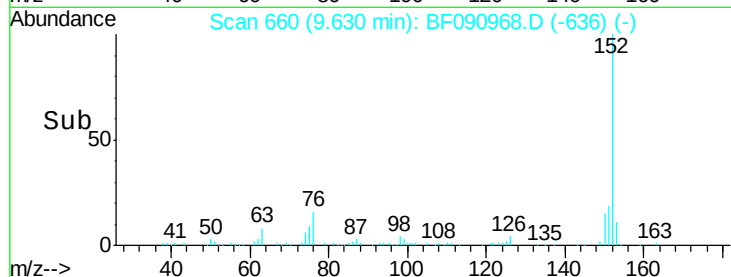
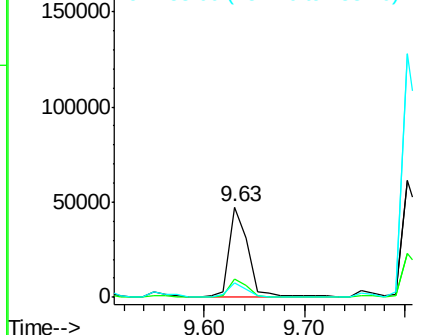
Manual Integrations
APPROVED

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 25.30 ng

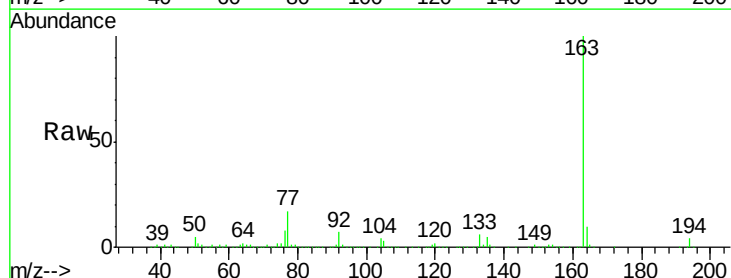
RT: 9.50 min Scan# 649

Delta R.T. -0.01 min

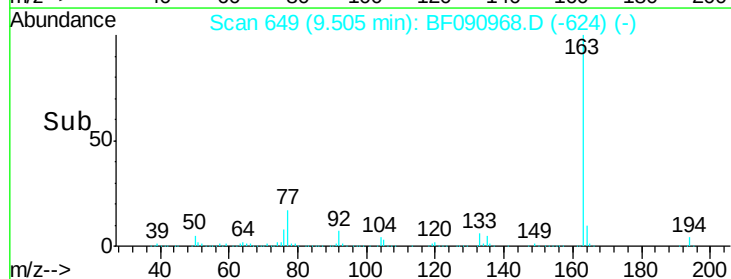
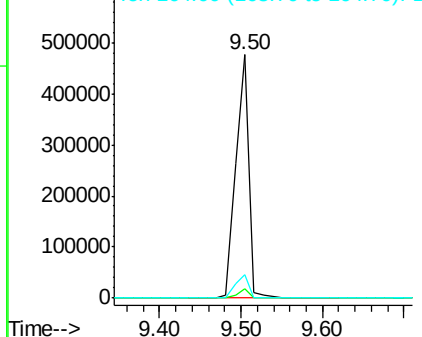
Lab File: BF090968.D

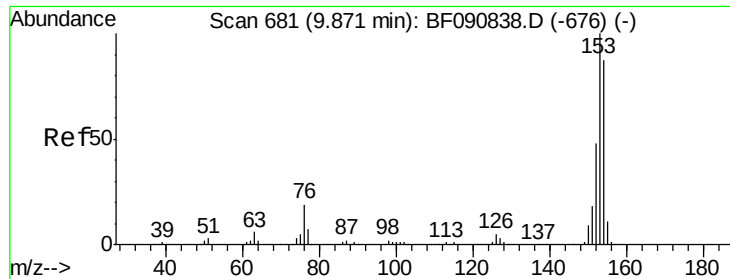
Acq: 1 Nov 2016 23:11

Tgt Ion:	163	Resp:	531198
Ion Ratio	Lower	Upper	
163	100		
194	3.6	4.4	6.6#
164	9.7	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





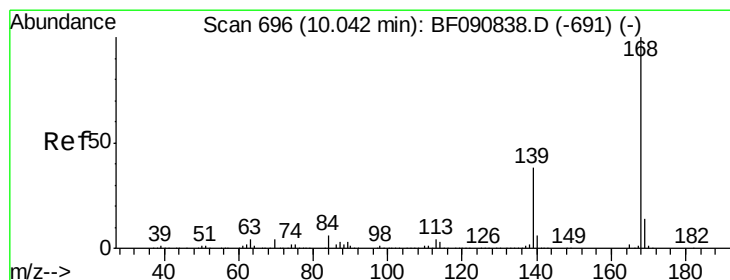
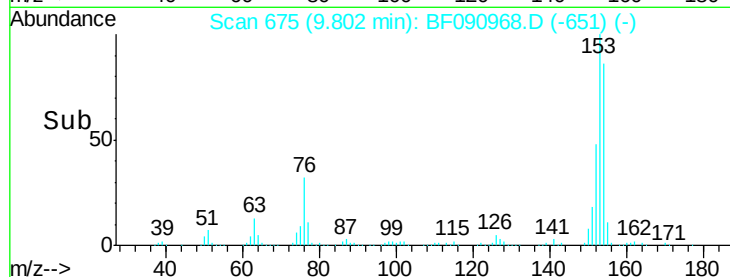
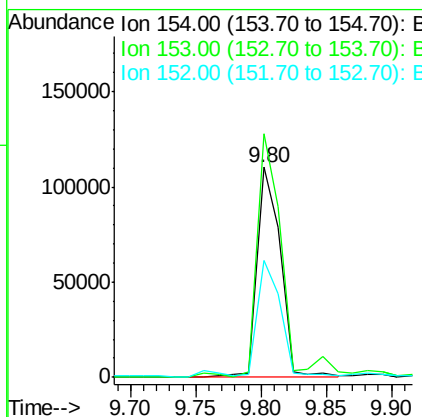
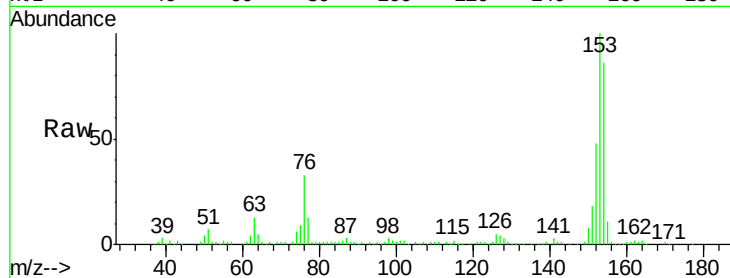
#51
Acenaphthene
Concen: 7.68 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.02 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
154	100		
153	116.0	82.1	123.1
152	55.7	37.9	56.9

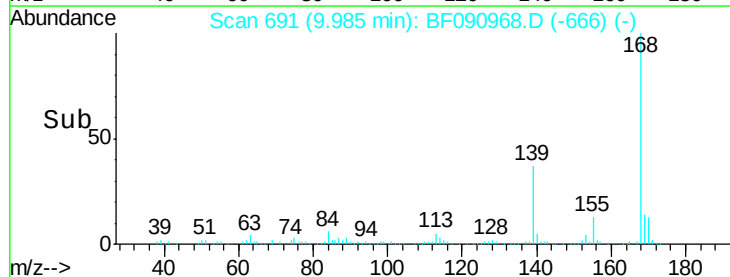
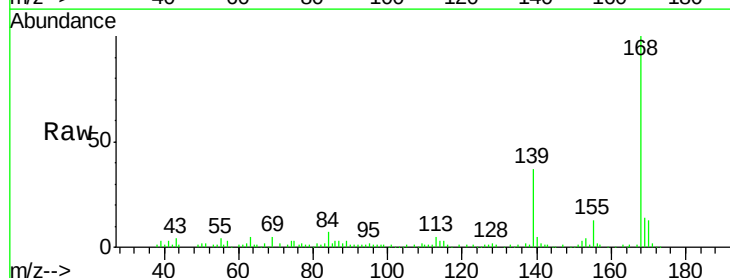
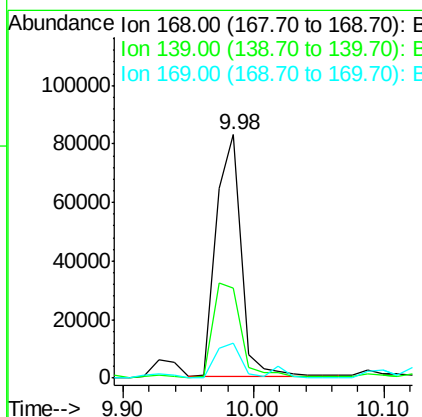
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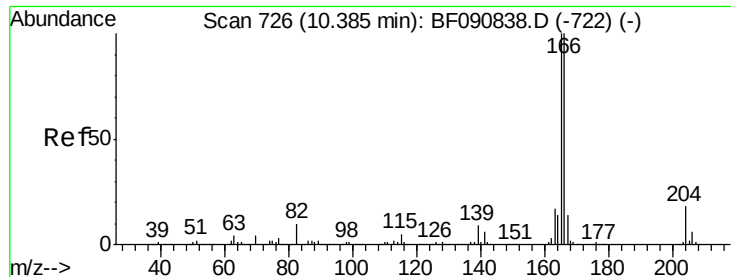
Umangi
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#54
Dibenzofuran
Concen: 4.83 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.8	24.2	36.2#
169	14.5	10.6	15.8





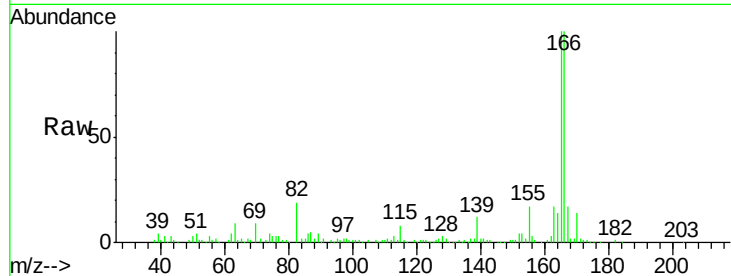
#57
Fluorene
Concen: 6.75 ng
RT: 10.32 min Scan# 720
Delta R.T. -0.02 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

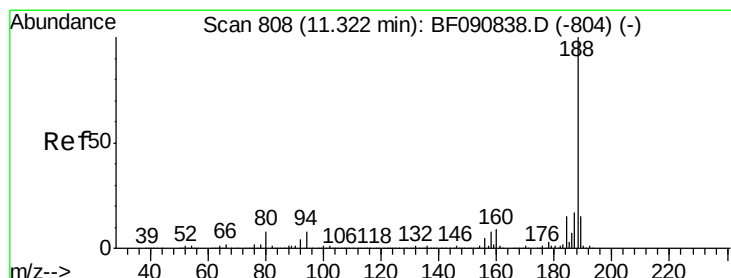
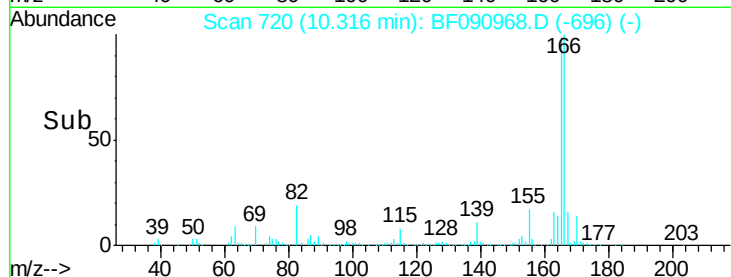
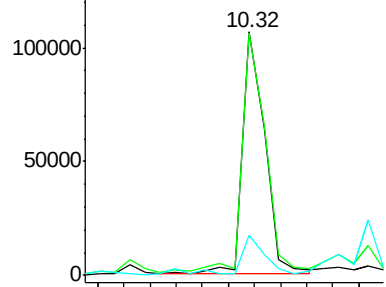
Tot Ion	Ratio	Resp	Lower	Upper
166	100	128046		
165	99.7	72.6	109.0	
167	16.6	10.6	16.0	

Manual Integrations
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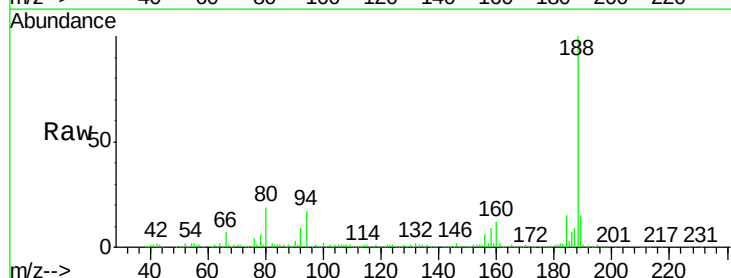


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

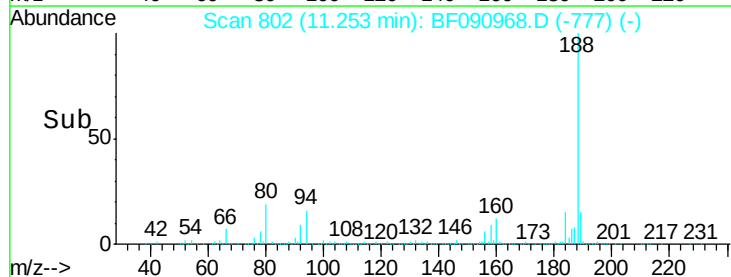
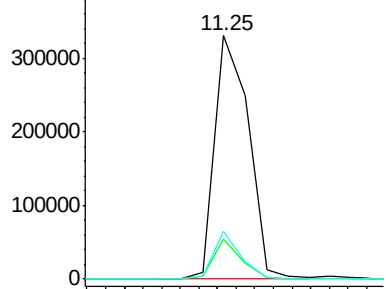


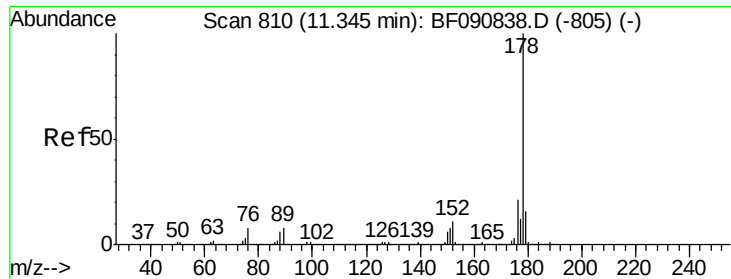
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	417125		
94	16.6	11.1	16.7	
80	19.4	11.0	16.4	



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





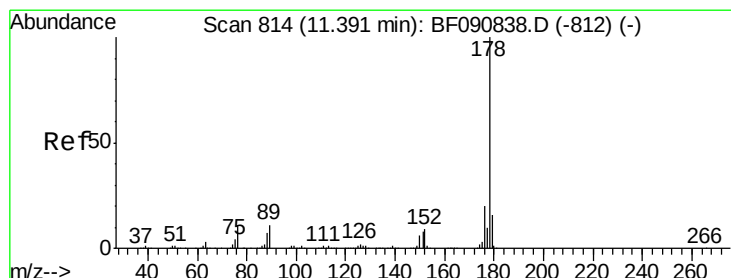
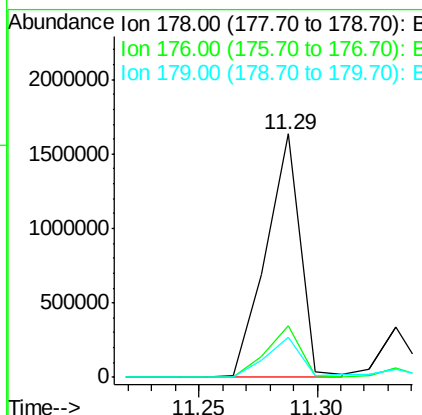
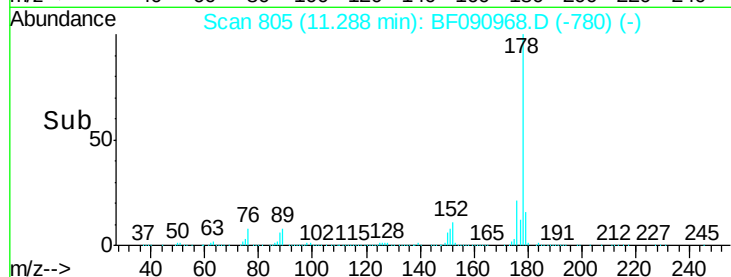
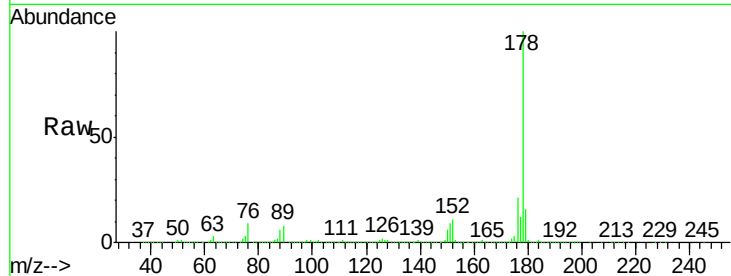
#70
Phenanthrene
Concen: 77.48 ng m
RT: 11.29 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion:178 Resp: 1645868
Ion Ratio Lower Upper
178 100
176 21.2 13.8 20.8#
179 16.4 12.2 18.2

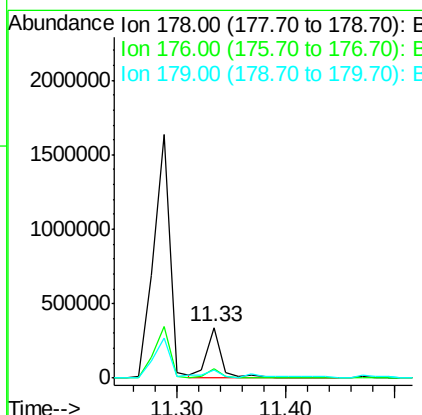
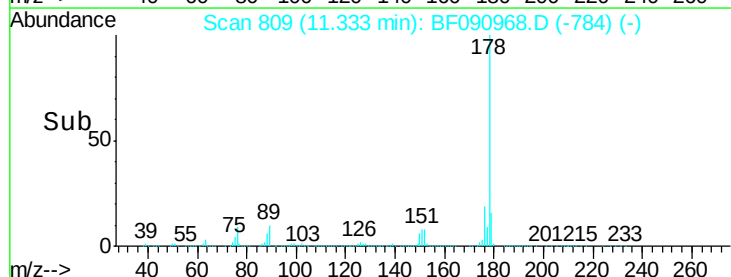
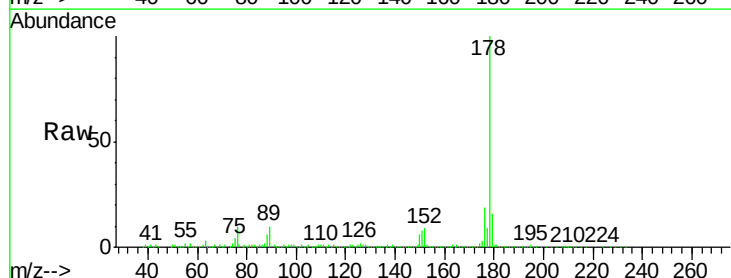
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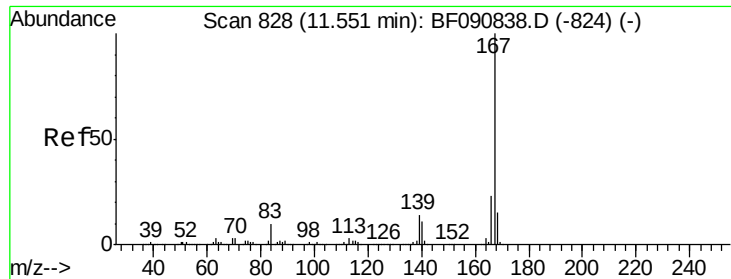
Umangi
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#71
Anthracene
Concen: 14.68 ng
RT: 11.33 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion:178 Resp: 328347
Ion Ratio Lower Upper
178 100
176 19.2 14.1 21.1
179 16.0 12.2 18.2





#72

Carbazole

Concen: 4.43 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.01 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0

Tot Ion:167 Resp: 87508

Ion Ratio Lower Upper

167 100

166 22.8 15.7 23.5

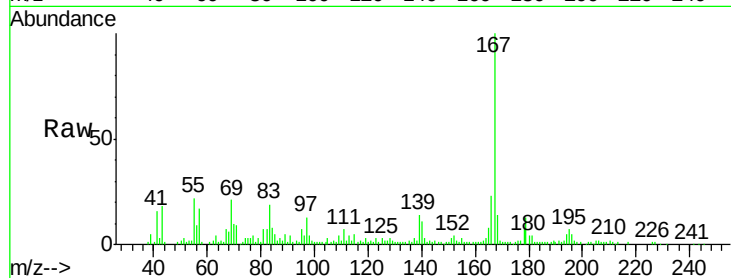
139 14.3 9.5 14.3#

Manual Integrations

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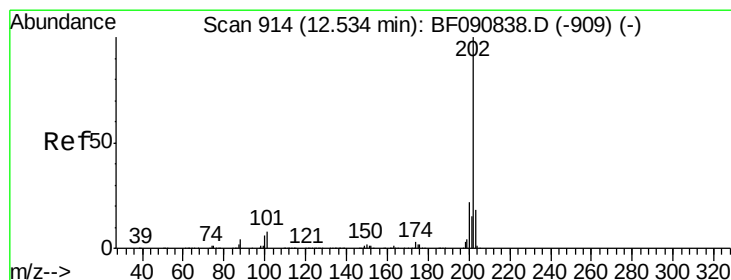
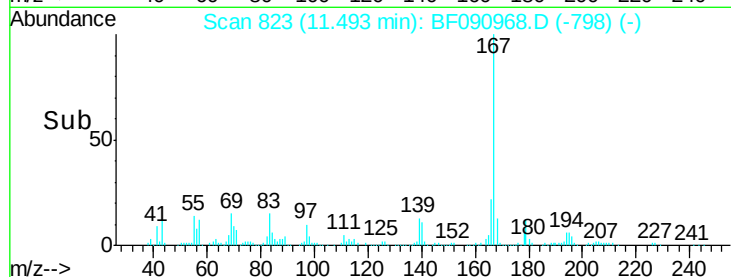
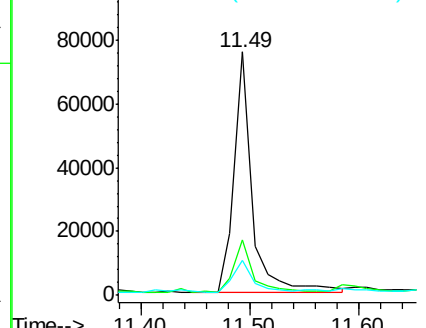
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 75.13 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.00 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

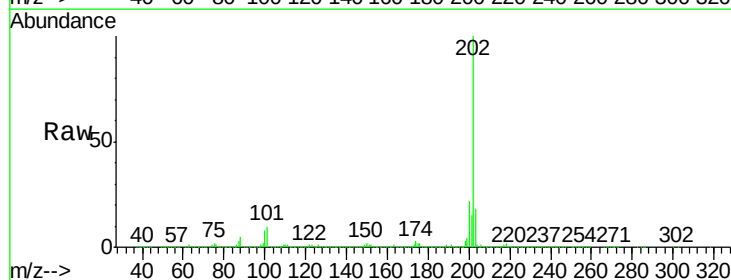
Tgt Ion:202 Resp: 1747714

Ion Ratio Lower Upper

202 100

101 10.5 0.0 38.3

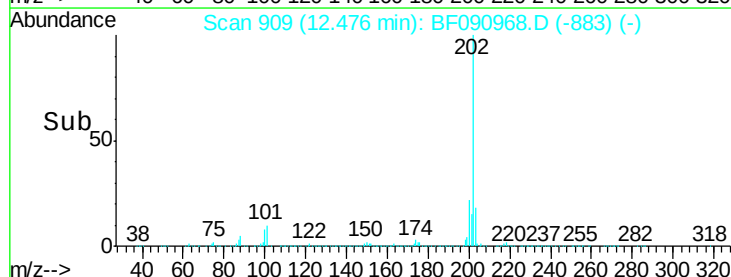
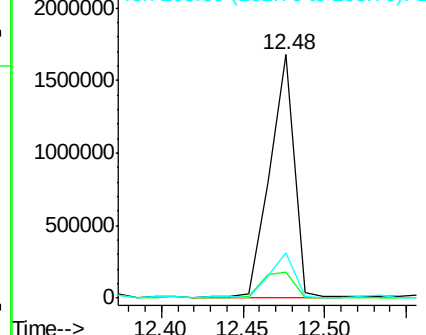
203 18.4 0.0 37.3

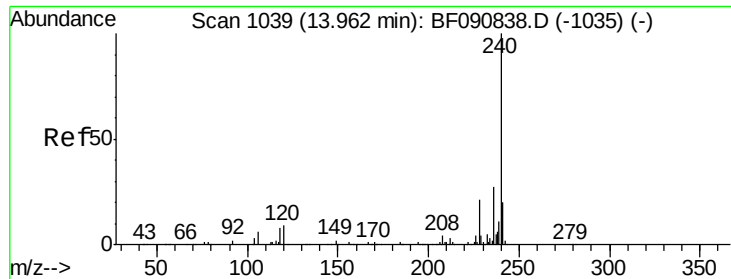


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

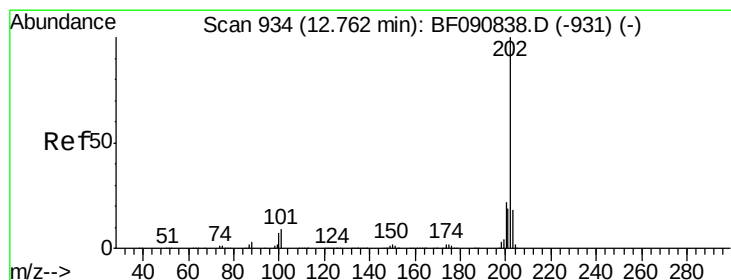
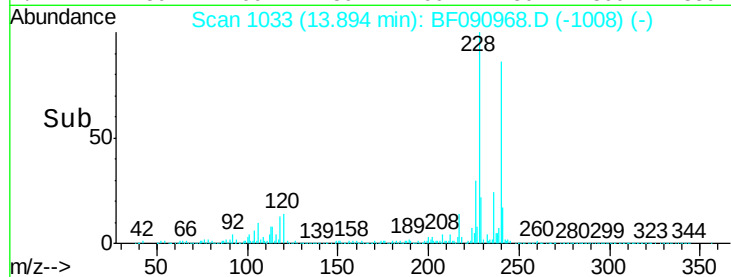
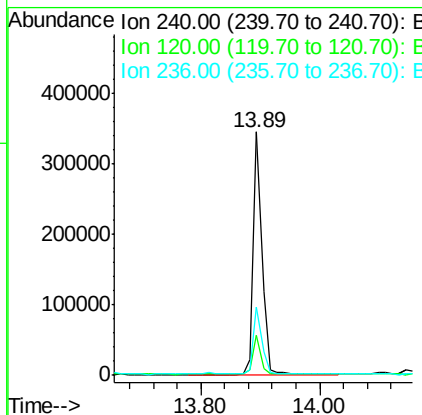
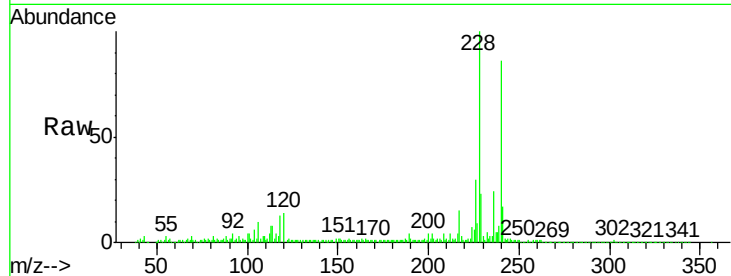
ClientSampleId :

SB-02-8.5-9.0

Tot Ion:	240	Resp:	347683
Ion Ratio	Lower	Upper	
240	100		
120	16.4	16.2	24.2
236	28.0	18.4	27.6#

Manual Integrations
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#77

Pyrene

Concen: 76.93 ng

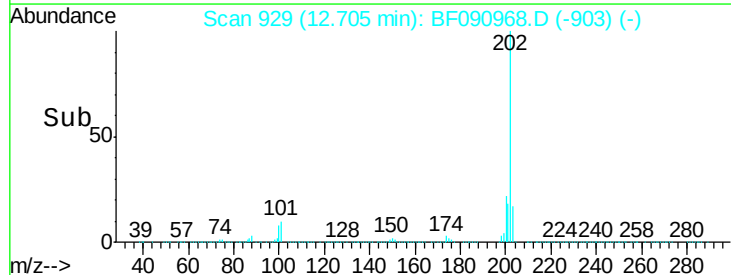
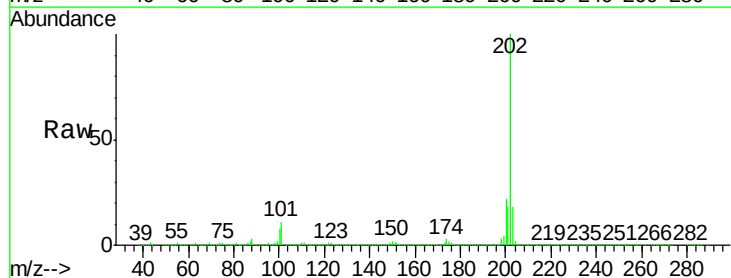
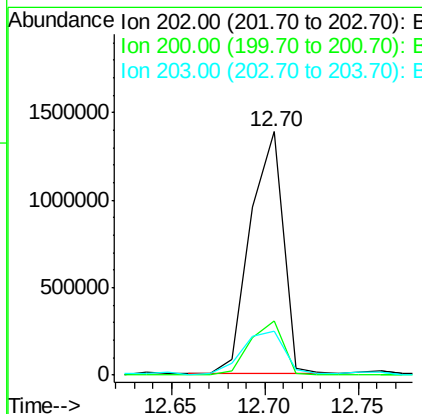
RT: 12.70 min Scan# 929

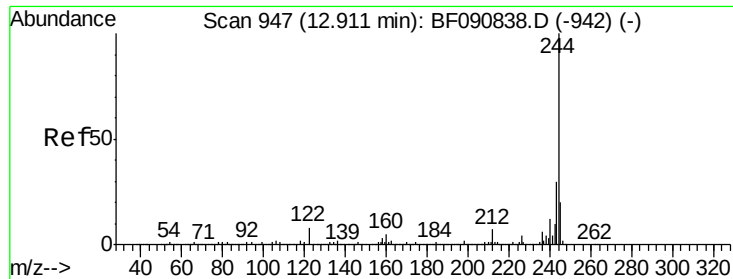
Delta R.T. -0.00 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Tgt Ion:	202	Resp:	1692749
Ion Ratio	Lower	Upper	
202	100		
200	22.3	15.0	22.4
203	18.3	14.1	21.1





#78

Terphenyl-d14

Concen: 52.96 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.01 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0

Tot Ion:244 Resp: 730861

Ion Ratio Lower Upper

244 100

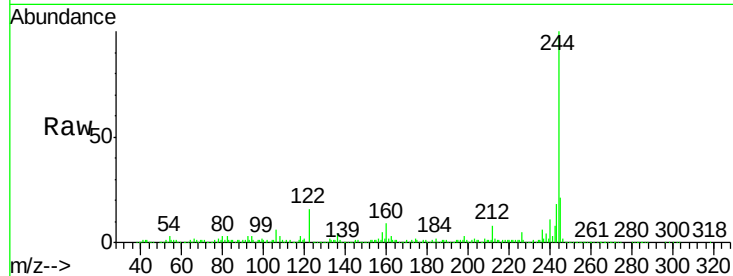
212 7.7 4.3 6.5#

122 16.3 17.4 26.2#

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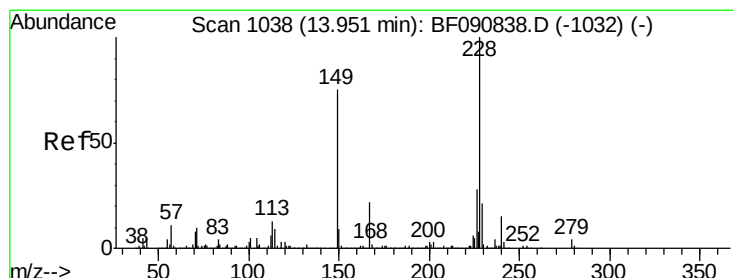
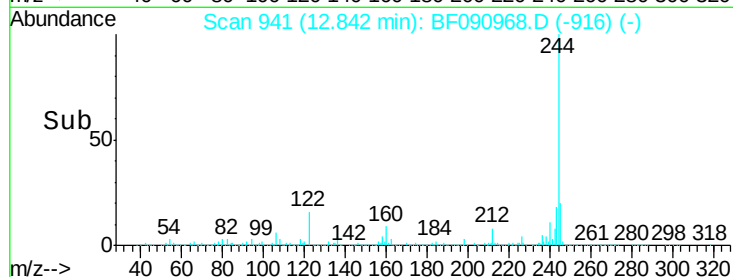
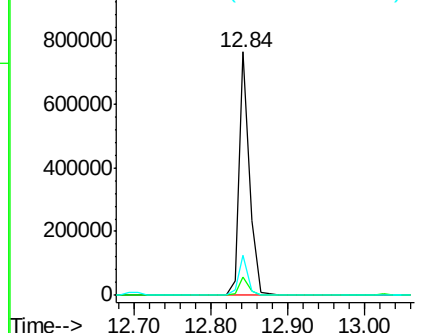
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 43.51 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

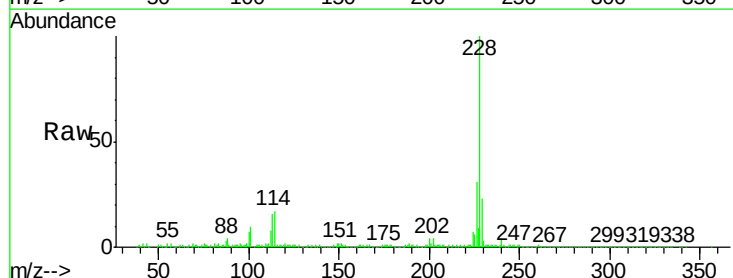
Tgt Ion:228 Resp: 802824

Ion Ratio Lower Upper

228 100

226 30.6 20.0 30.0#

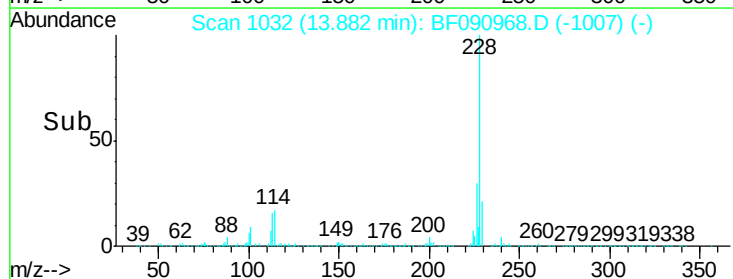
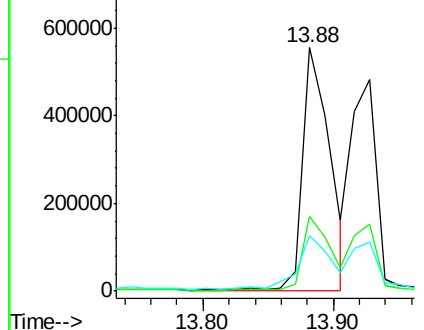
229 22.5 15.4 23.2

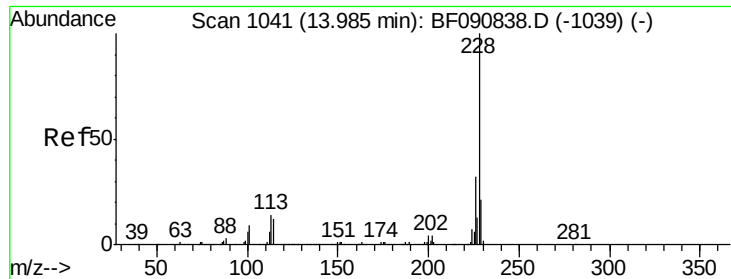


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





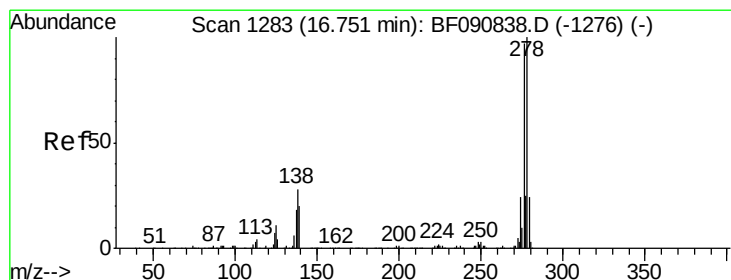
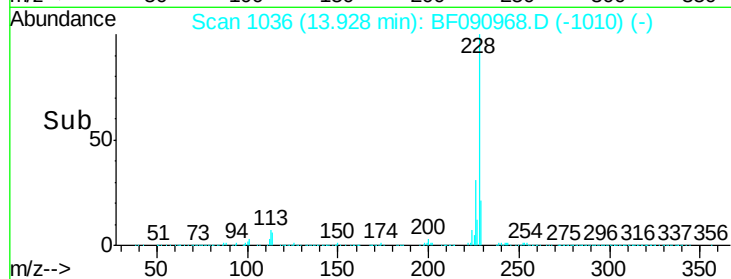
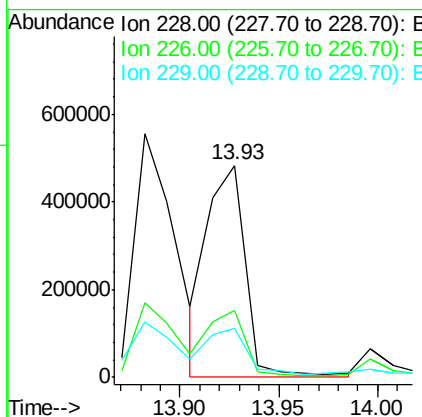
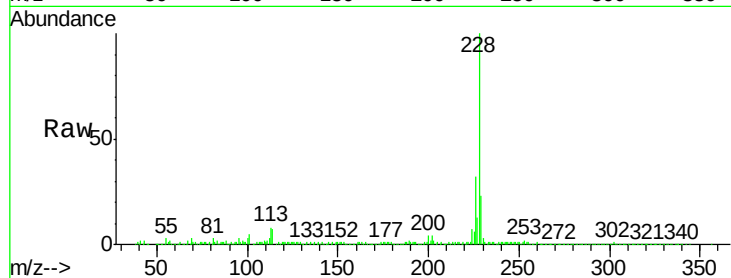
#82
Chrysene
Concen: 35.31 ng/ml
RT: 13.93 min Scan# 1036
Delta R.T. -0.00 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	21.0	31.4#
229	23.0	15.6	23.4

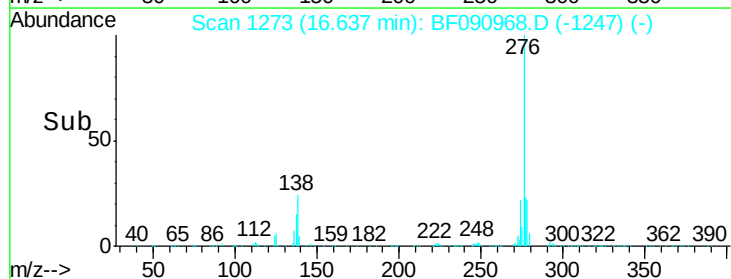
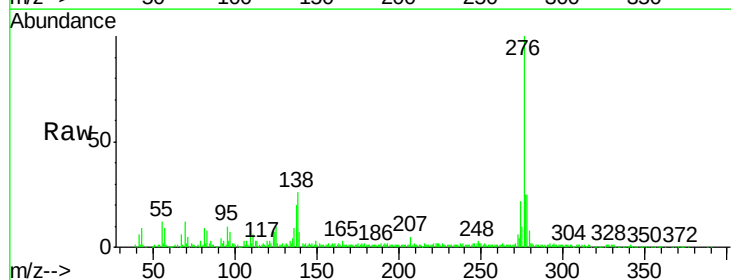
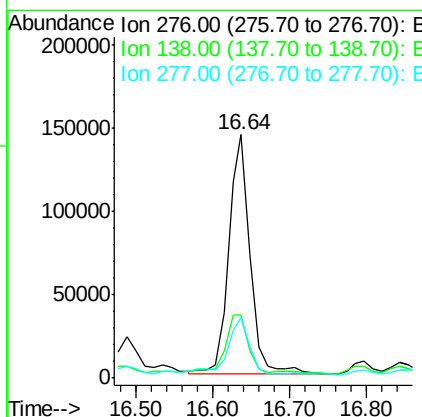
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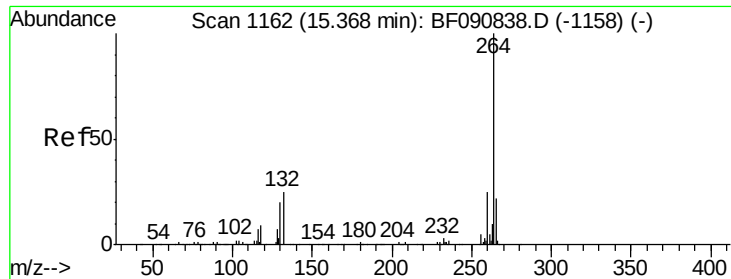
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#85
Indeno(1,2,3-cd)pyrene
Concen: 17.14 ng
RT: 16.64 min Scan# 1273
Delta R.T. -0.00 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	25.7	38.5
277	25.2	15.6	23.4#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.30 min Scan# 1156

Delta R.T. -0.00 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Instrument :

BNA_F

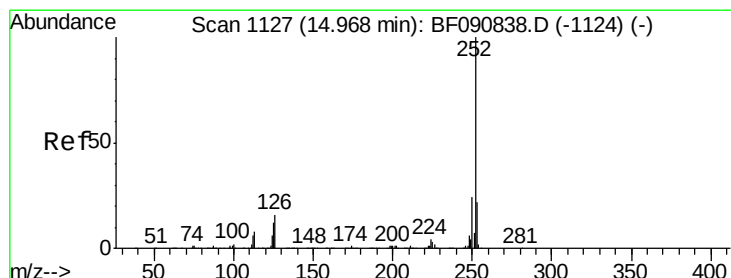
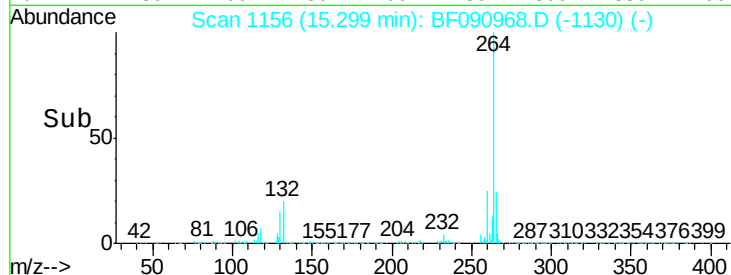
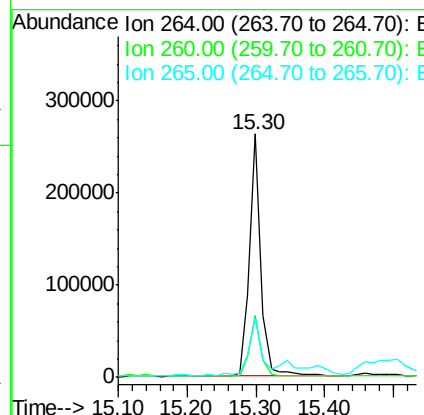
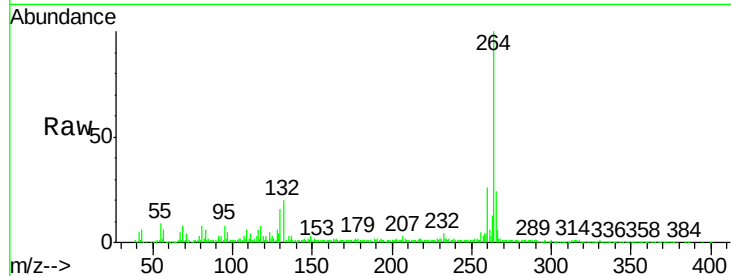
ClientSampleId :

SB-02-8.5-9.0

Tot Ion:	264	Resp:	309689
Ion Ratio	Lower	Upper	
264	100		
260	25.5	16.7	25.1#
265	24.4	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 40.79 ng m

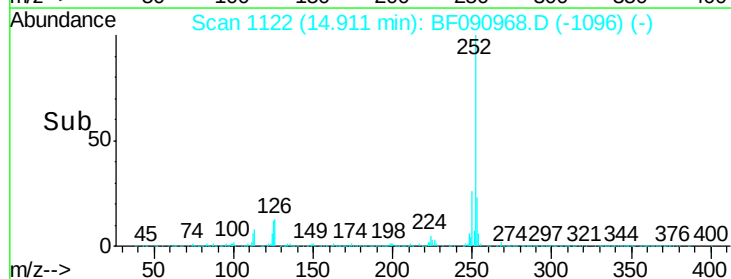
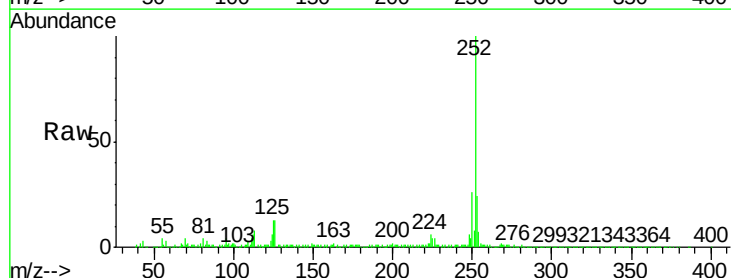
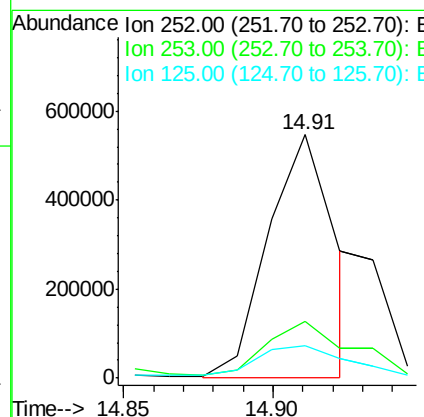
RT: 14.91 min Scan# 1122

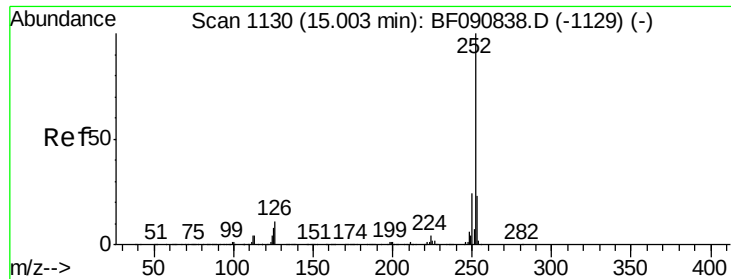
Delta R.T. -0.00 min

Lab File: BF090968.D

Acq: 1 Nov 2016 23:11

Tgt Ion:	252	Resp:	849397
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	13.4	17.1	25.7#





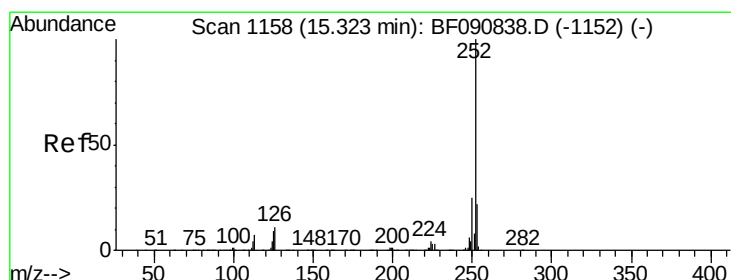
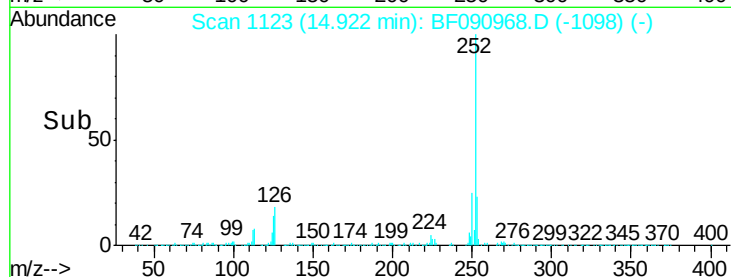
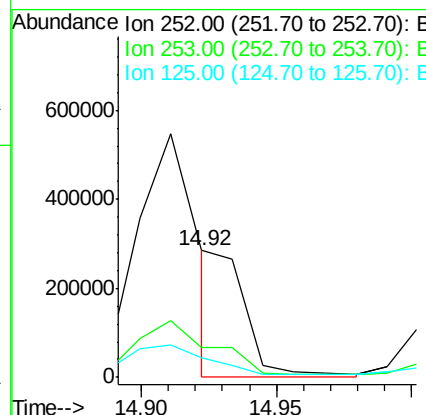
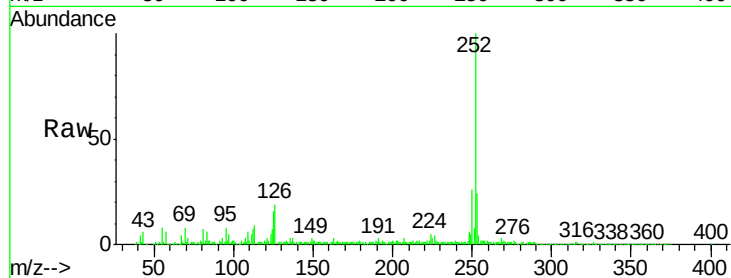
#88
Benzo(k)fluoranthene
Concen: 13.23 ng m
RT: 14.92 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.4
125	15.6	16.0	24.0#

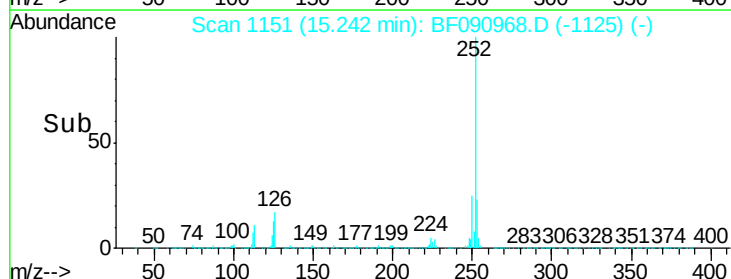
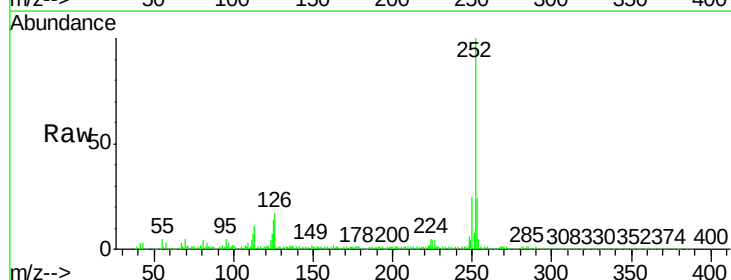
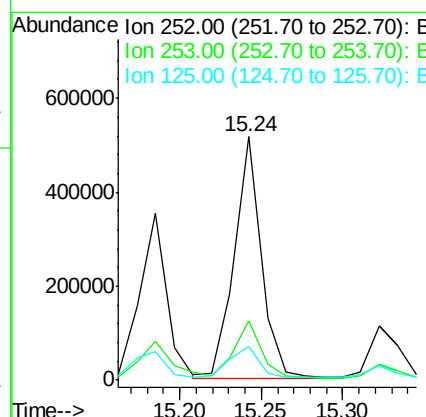
Manual Integrations
APPROVED

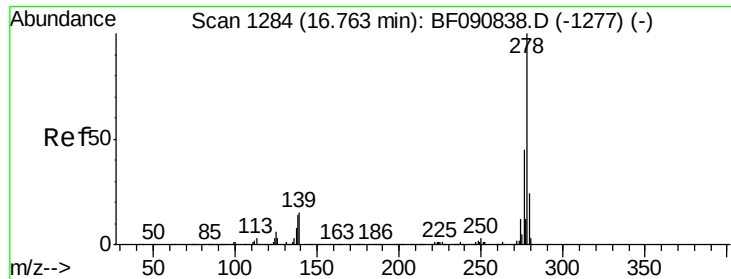
Umangi
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#89
Benzo(a)pyrene
Concen: 33.07 ng
RT: 15.24 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.2	25.8
125	14.0	18.0	27.0#





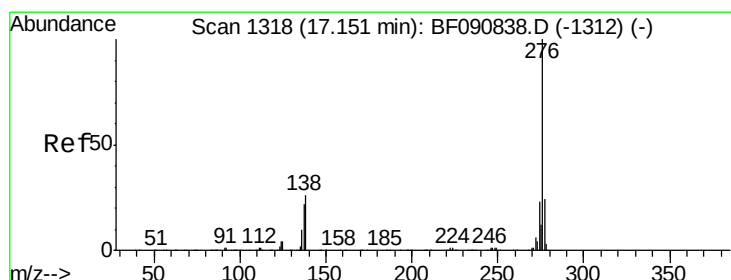
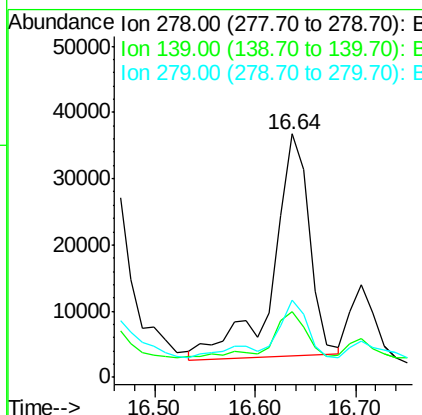
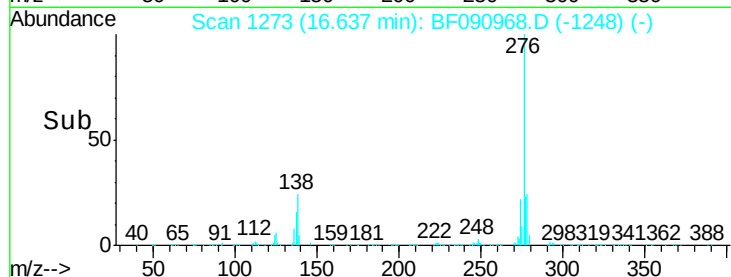
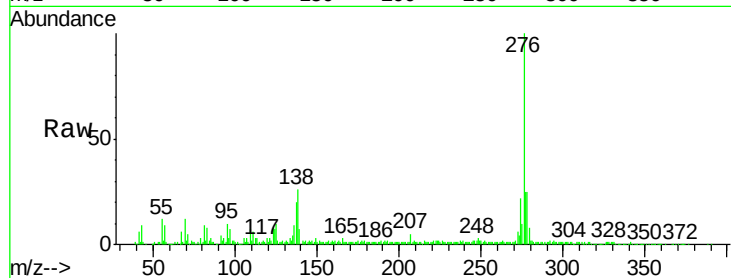
#90
Dibenzo(a,h)anthracene
Concen: 5.55 ng
RT: 16.64 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.2	26.3	39.5
279	31.6	18.2	27.4

Manual Integrations
APPROVED

Umangi
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#91
Benzo(g,h,i)perylene
Concen: 18.60 ng
RT: 17.04 min Scan# 1308
Delta R.T. -0.00 min
Lab File: BF090968.D
Acq: 1 Nov 2016 23:11

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.8	26.6
138	28.1	34.6	51.8

