

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
 Data File : BF090884.D
 Acq On : 27 Oct 2016 23:19
 Operator : UM/SJ
 Sample : H5411-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: Oct 28 01:44:09 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 27 18:46:43 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	143112	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	595110	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	298598	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	424755	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	370742	20.00	ng	-0.01
86) Perylene-d12	15.35	264	324732	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	876329	107.06	ng	0.00
7) Phenol-d6	6.41	99	1100656	99.67	ng	-0.01
23) Nitrobenzene-d5	7.33	82	649298	71.42	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	273730	89.20	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	1081546	63.60	ng	-0.01
78) Terphenyl-d14	12.89	244	759792	51.63	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.08	128	200304	7.20	ng	98
37) 2-Methylnaphthalene	8.77	142	65747	3.66	ng	# 92
48) Acenaphthylene	9.68	152	49737	2.01	ng	94
49) Dimethylphthalate	9.54	163	504047	25.27	ng	# 97
51) Acenaphthene	9.85	154	129782	7.61	ng	88
54) Dibenzofuran	10.02	168	125502	5.70	ng	94
57) Fluorene	10.36	166	120636	6.69	ng	93
70) Phenanthrene	11.32	178	1342501	62.07	ng	94
71) Anthracene	11.37	178	305060	13.39	ng	97
72) Carbazole	11.53	167	90419	4.50	ng	# 93
74) Fluoranthene	12.51	202	1427394	60.26	ng	93
77) Pylene	12.74	202	1509748m	64.35	ng	
80) Benzo(a)anthracene	13.93	228	726123m	36.90	ng	
82) Chrysene	13.96	228	746008m	37.48	ng	
85) Indeno(1,2,3-cd)pyrene	16.71	276	274072m	15.54	ng	
87) Benzo(b)fluoranthene	14.96	252	858366m	39.31	ng	
88) Benzo(k)fluoranthene	14.97	252	239544m	13.88	ng	
89) Benzo(a)pyrene	15.29	252	623037m	33.21	ng	
90) Dibenzo(a,h)anthracene	16.72	278	66778	4.20	ng	# 82
91) Benzo(a,h,i)perylene	17.12	276	263233	17.60	ng	# 82

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

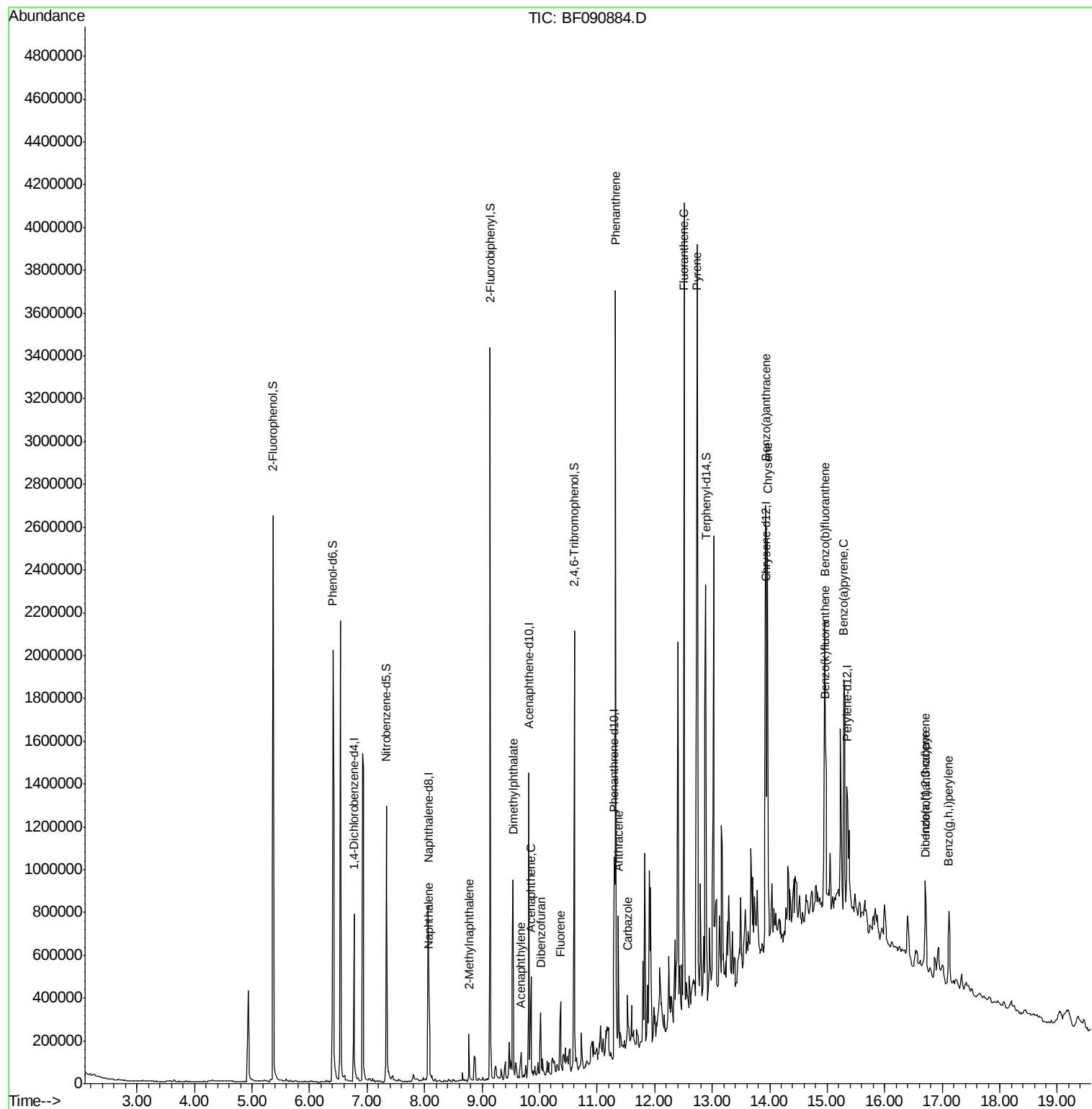
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
Data File : BF090884.D
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ALS Vial : 17 Sample Multiplier: 1

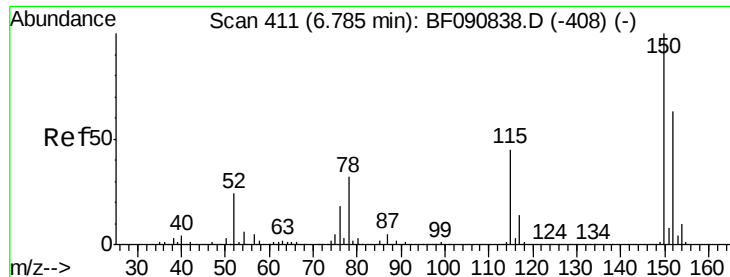
Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0

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#1

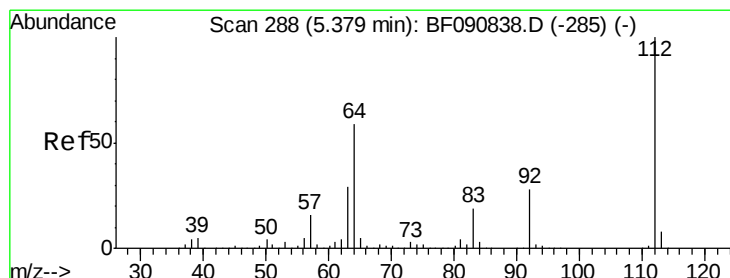
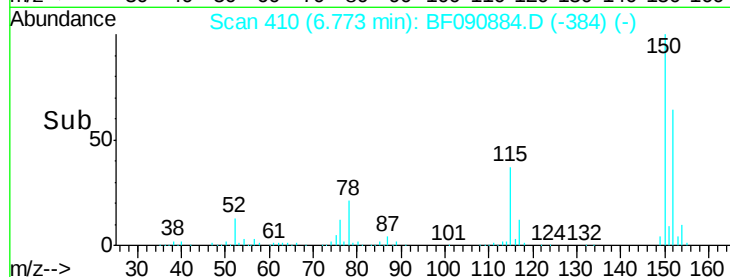
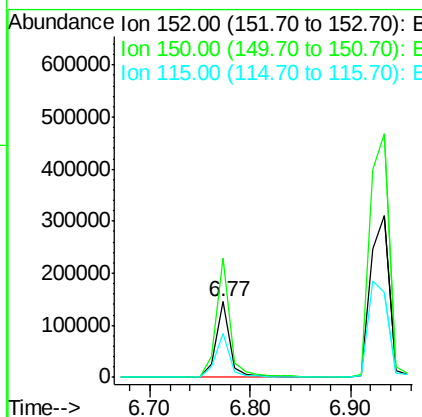
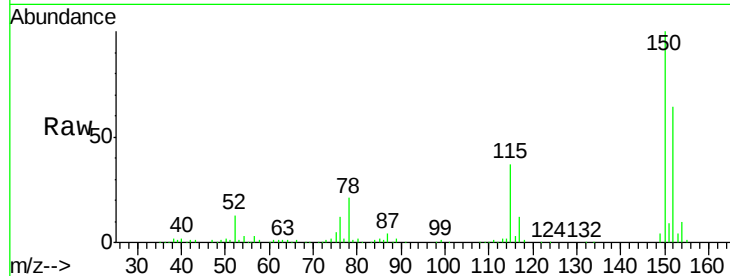
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. -0.00 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.7	187.1
115	57.7	39.0	58.4

Manual Integrations
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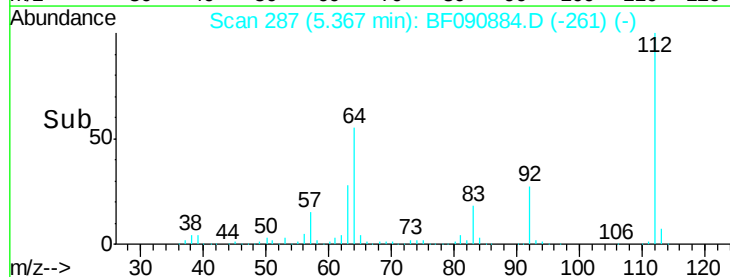
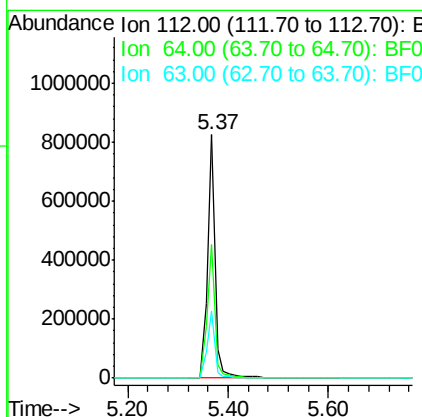
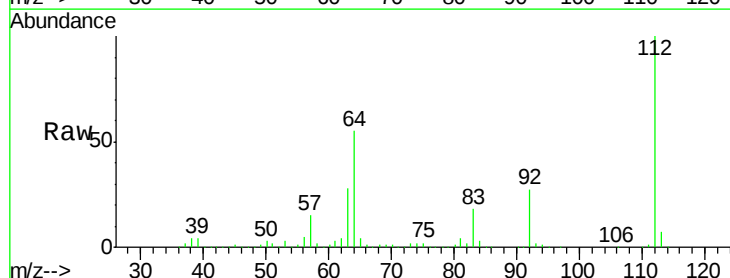
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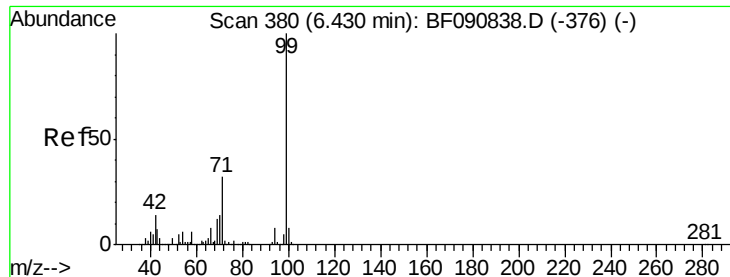


#5

2-Fluorophenol
Concen: 107.06 ng
RT: 5.37 min Scan# 287
Delta R.T. -0.00 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	39.7	59.5
63	27.6	17.4	26.0





#7

Phenol-d6

Concen: 99.67 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

ClientSampled :

SB-02-8.5-9.0

Tot Ion: 99 Resp: 1100656

Ion Ratio Lower Upper

99 100

42 14.9 13.7 20.5

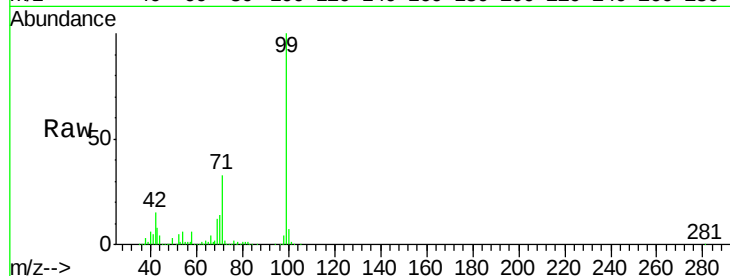
71 32.8 14.2 21.2#

Manual Integrations

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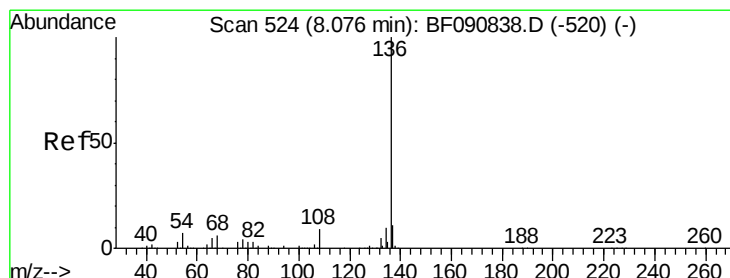
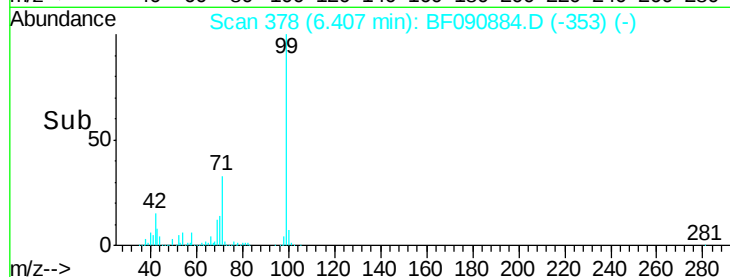
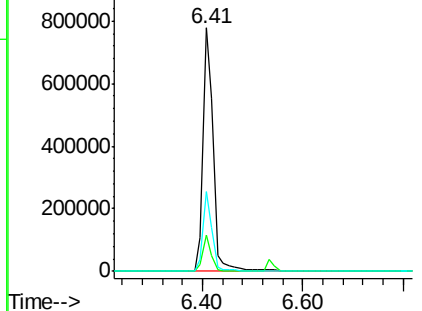
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.00 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Tgt Ion: 136 Resp: 595110

Ion Ratio Lower Upper

136 100

137 10.5 9.0 13.6

54 5.3 8.2 12.2#

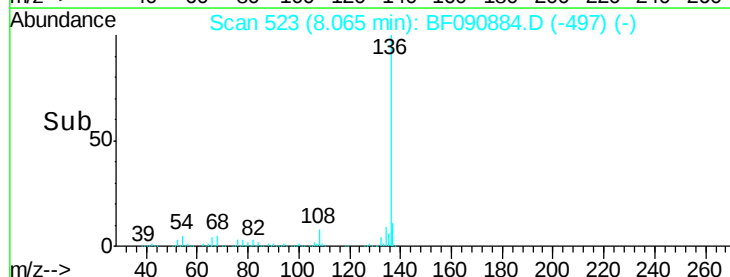
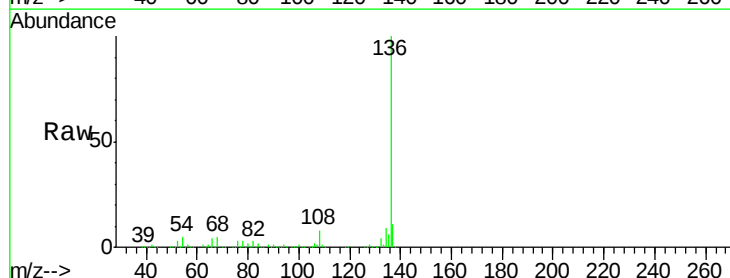
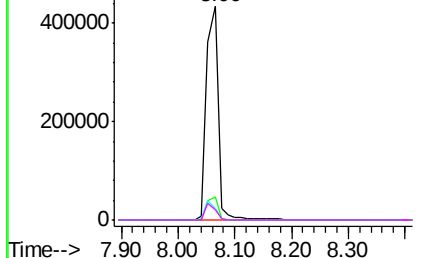
68 5.1 5.8 8.6#

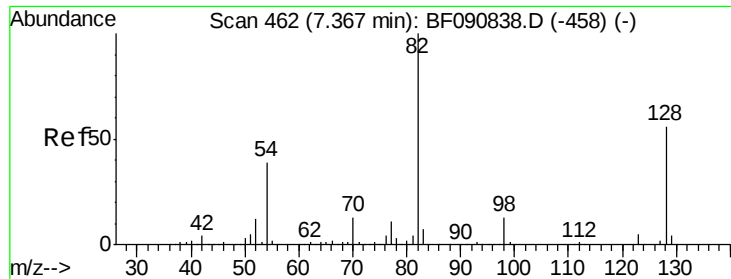
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





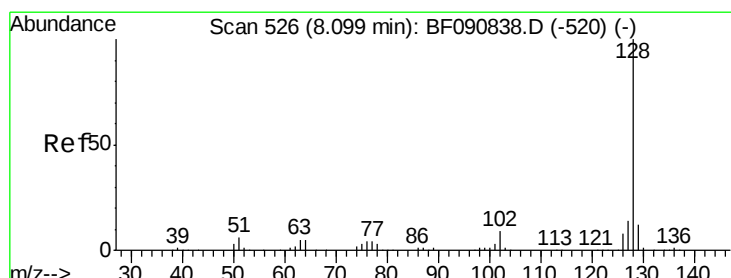
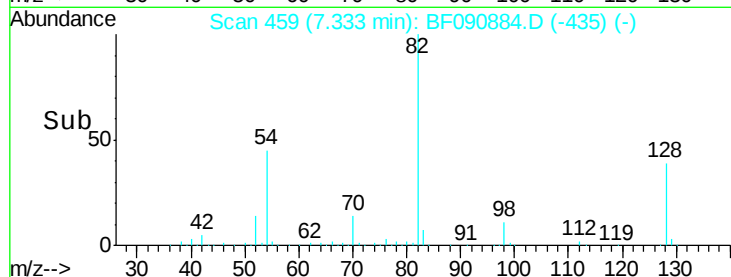
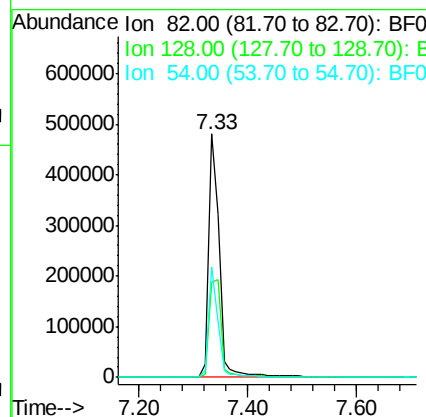
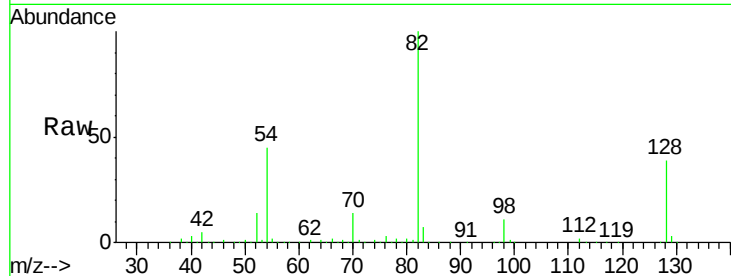
#23
 Nitrobenzene-d5
 Concen: 71.42 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.02 min
 Lab File: BF090884.D
 Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Resp	Lower	Upper
82	100	649298		
128	39.2	51.0	76.6#	
54	45.4	47.5	71.3#	

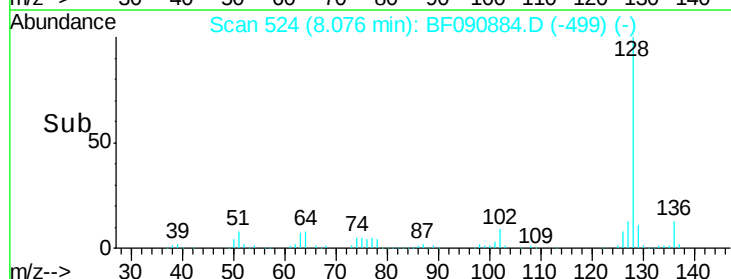
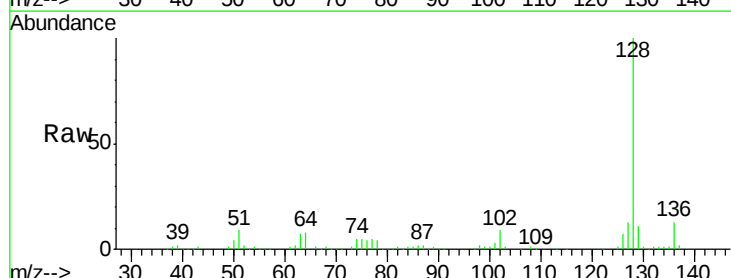
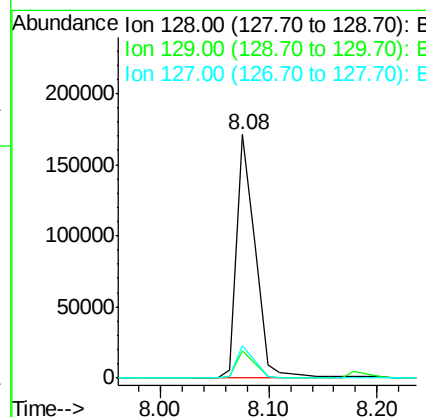
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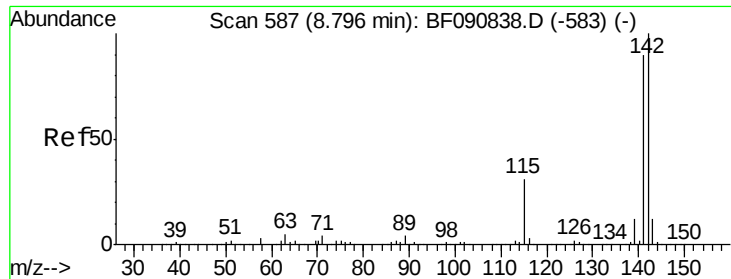
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#31
 Naphthalene
 Concen: 7.20 ng
 RT: 8.08 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: BF090884.D
 Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	200304		
129	11.1	8.4	12.6	
127	13.2	9.9	14.9	





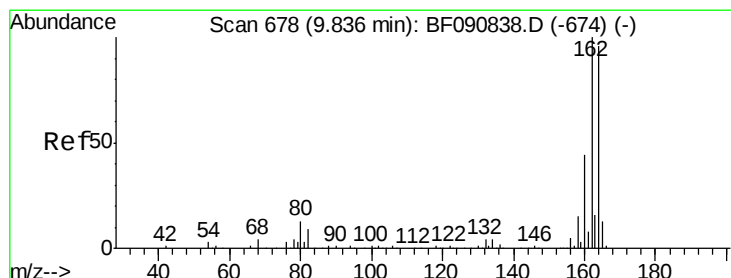
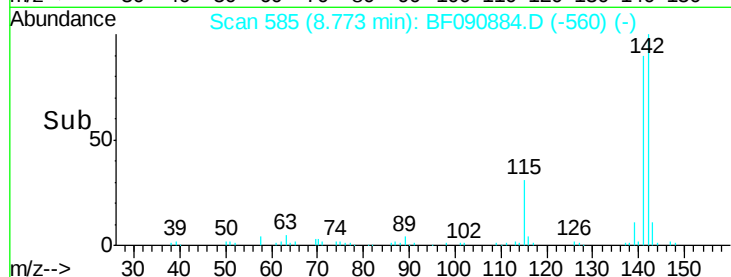
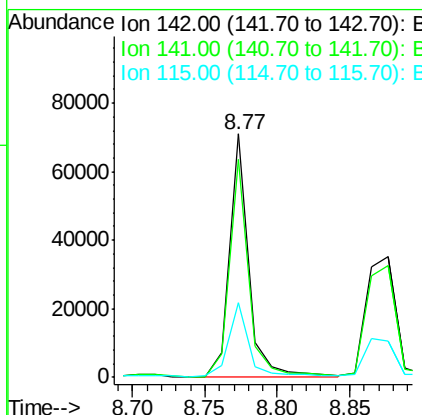
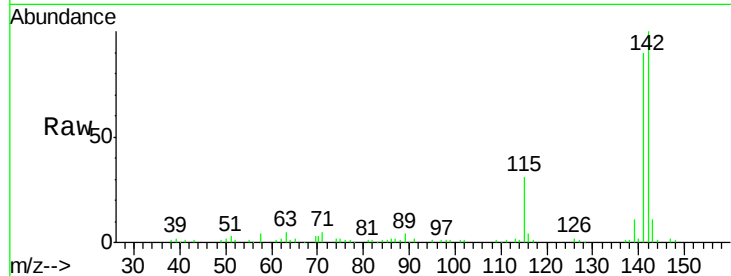
#37
2-Methylnaphthalene
Concen: 3.66 ng
RT: 8.77 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	67.5	101.3
115	30.8	18.2	27.2

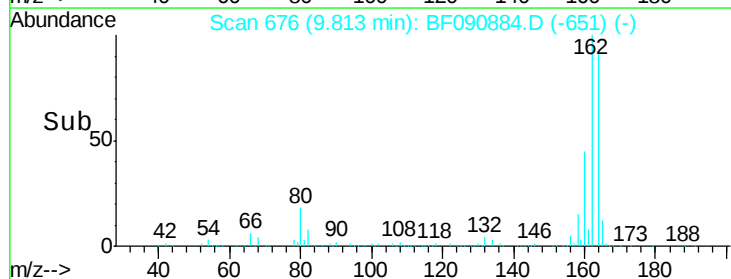
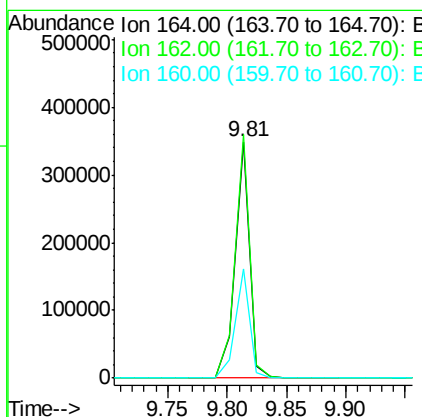
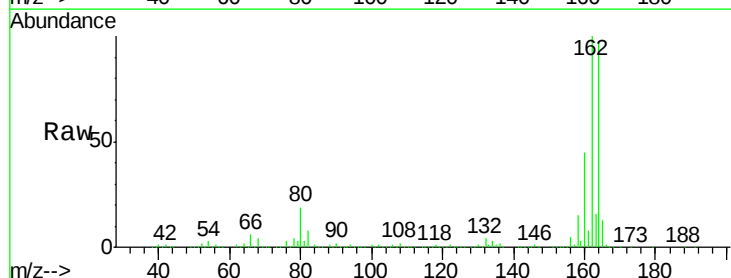
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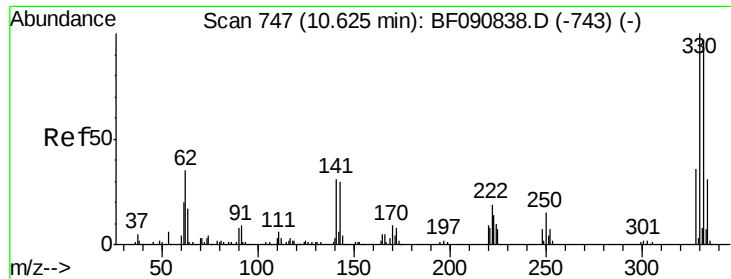
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	75.2	112.8
160	46.2	31.5	47.3





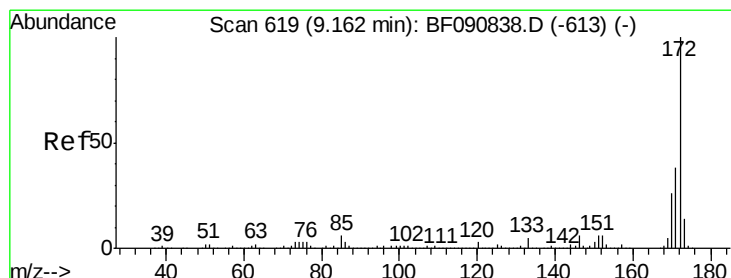
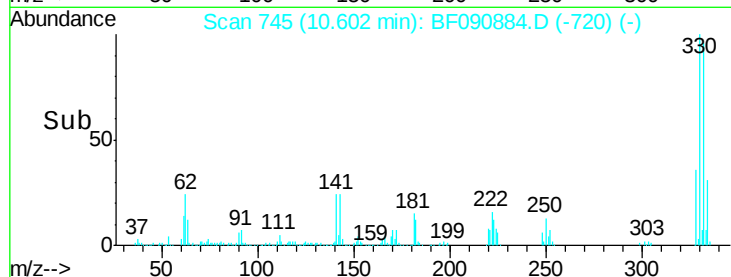
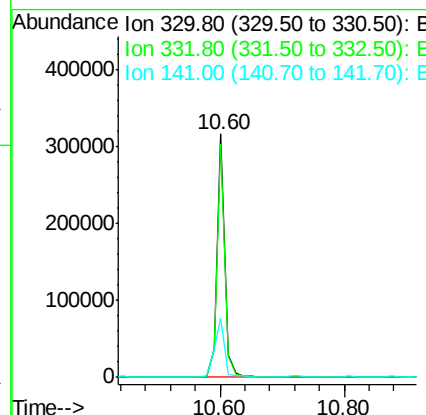
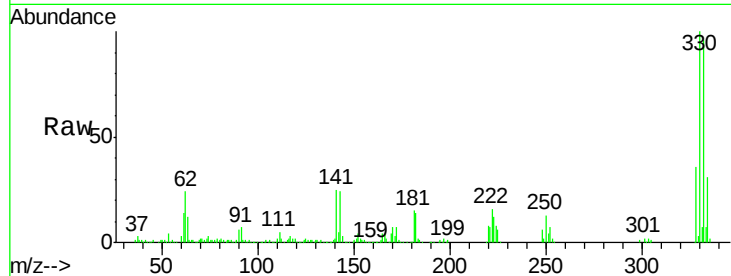
#41
 2,4,6-Tribromophenol
 Concen: 89.20 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF090884.D
 Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	114.8
141	31.1	29.7	44.5

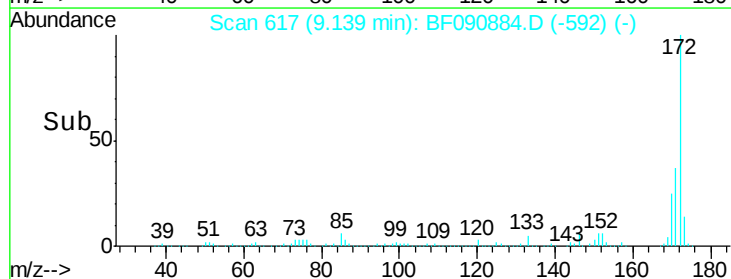
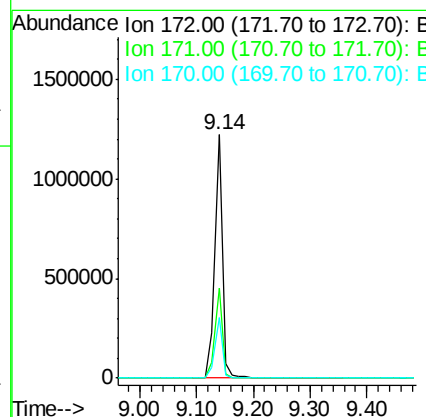
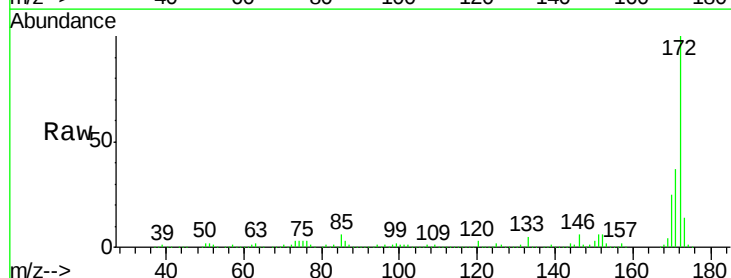
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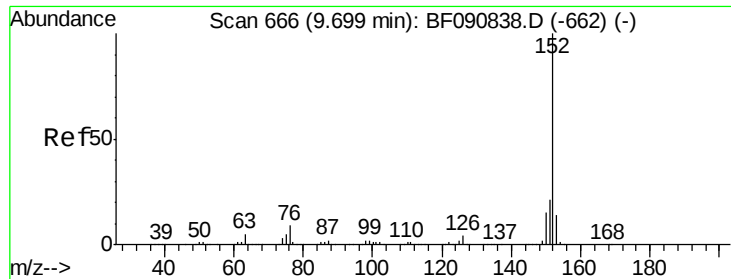
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#44
 2-Fluorobiphenyl
 Concen: 63.60 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF090884.D
 Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	26.1	39.1
170	24.8	17.4	26.2





#48

Acenaphthylene

Concen: 2.01 ng

RT: 9.68 min Scan# 664

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

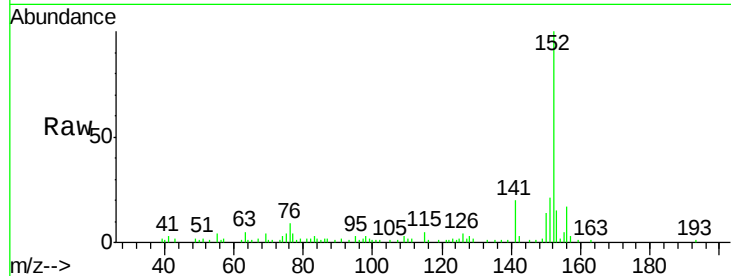
ClientSampleId :

SB-02-8.5-9.0

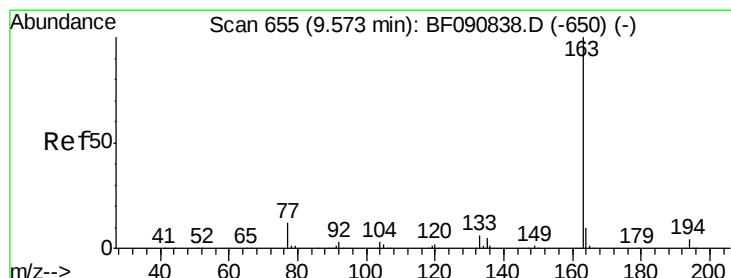
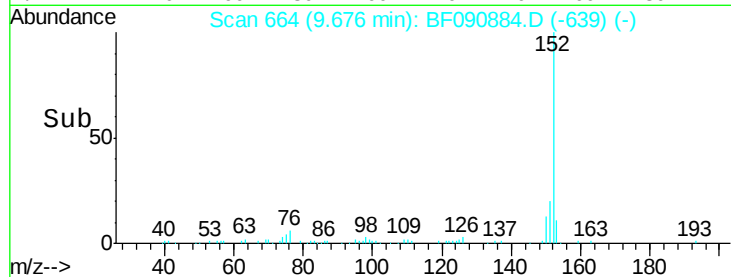
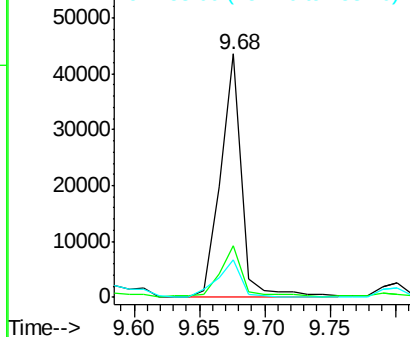
Tot Ion:	152	Resp:	49737
Ion Ratio	Lower	Upper	
152	100		
151	21.1	14.6	22.0
153	15.3	10.3	15.5

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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: 25.27 ng

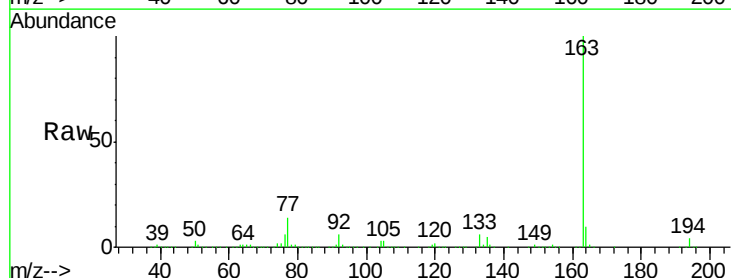
RT: 9.54 min Scan# 652

Delta R.T. -0.02 min

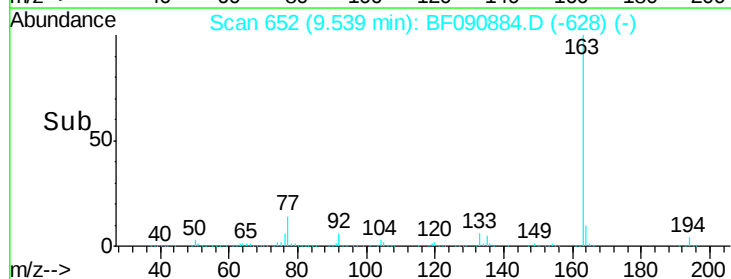
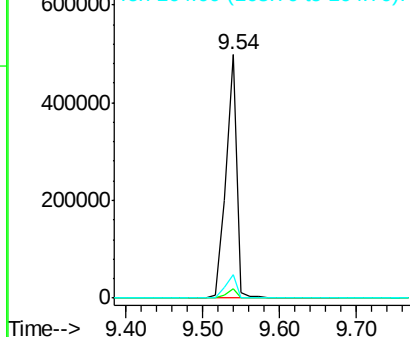
Lab File: BF090884.D

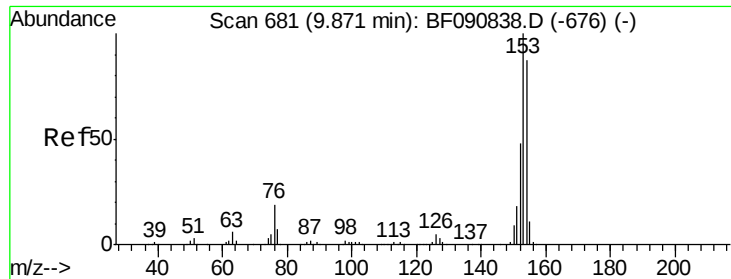
Acq: 27 Oct 2016 23:19

Tgt Ion:	163	Resp:	504047
Ion Ratio	Lower	Upper	
163	100		
194	3.7	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: 7.61 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

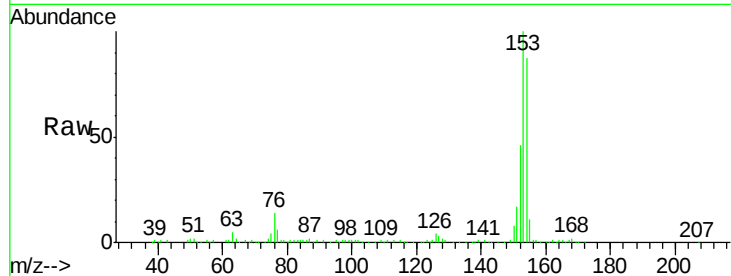
ClientSampleId :

SB-02-8.5-9.0

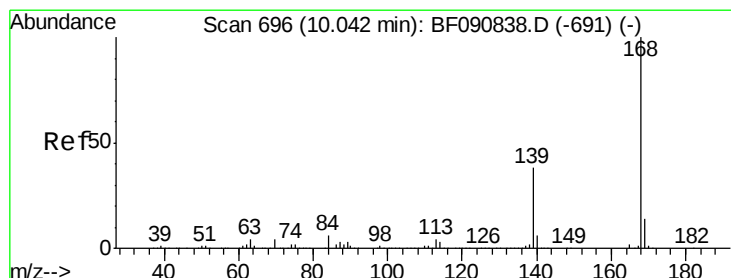
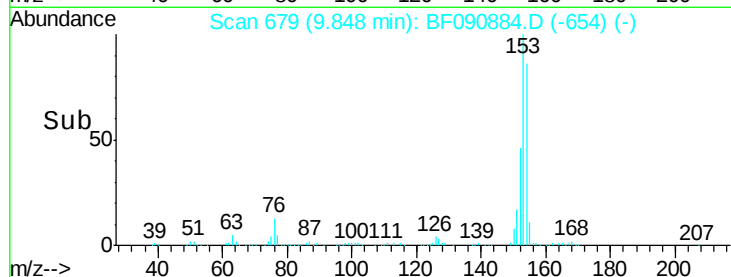
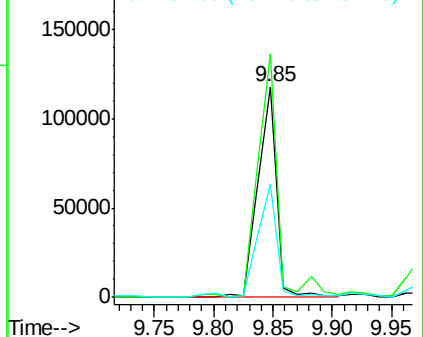
Tot Ion:	154	Resp:	129782
Ion Ratio	Lower	Upper	
154	100		
153	115.5	82.1	123.1
152	53.5	37.9	56.9

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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: 5.70 ng

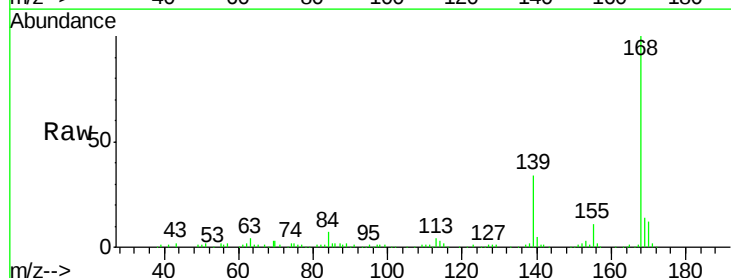
RT: 10.02 min Scan# 694

Delta R.T. -0.01 min

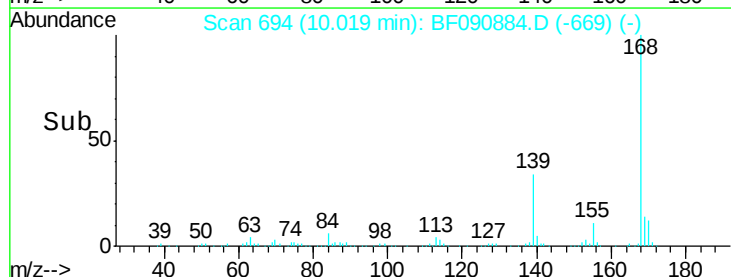
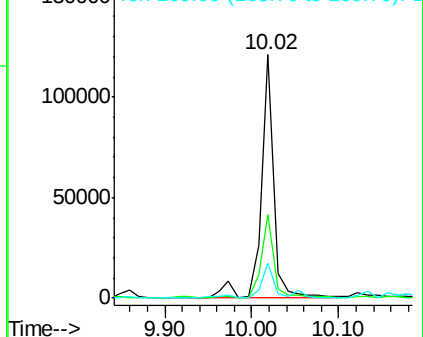
Lab File: BF090884.D

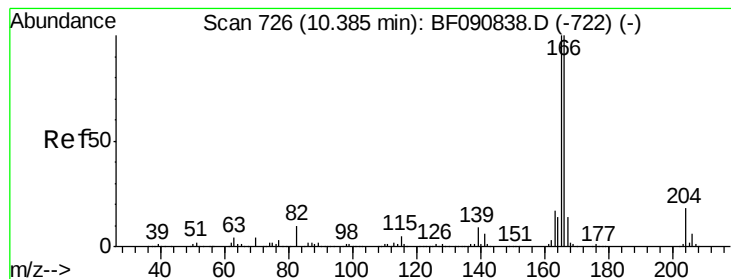
Acq: 27 Oct 2016 23:19

Tgt Ion:	168	Resp:	125502
Ion Ratio	Lower	Upper	
168	100		
139	34.2	24.2	36.2
169	14.2	10.6	15.8



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: 6.69 ng

RT: 10.36 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

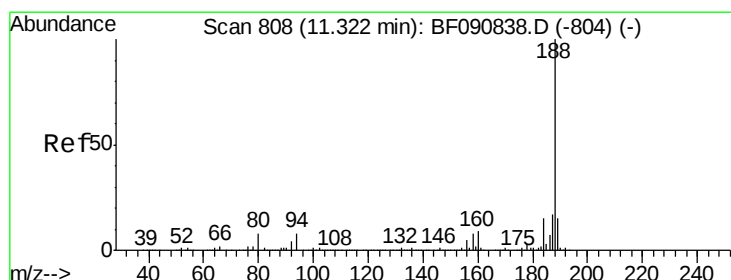
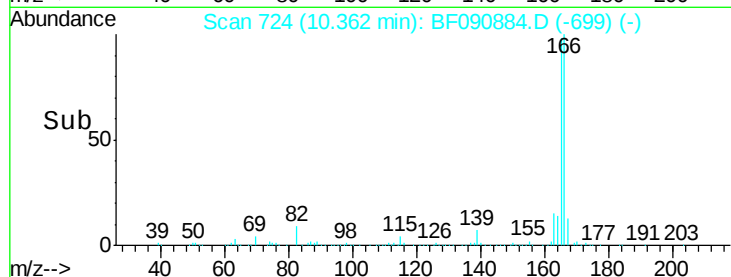
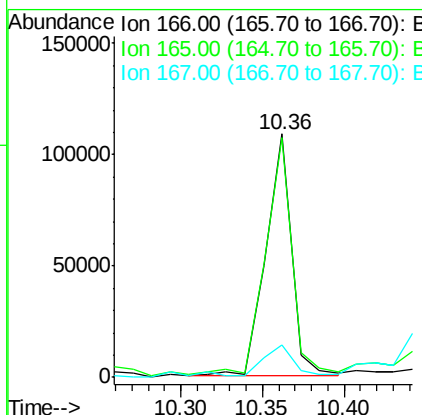
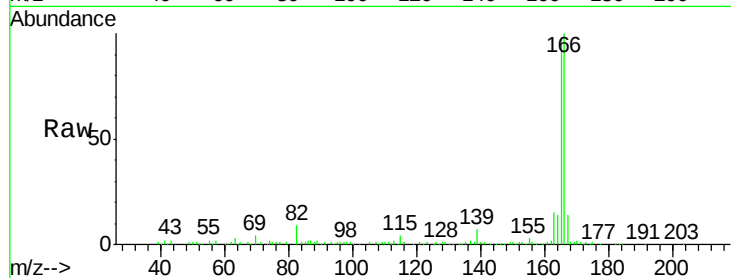
ClientSampleId :

SB-02-8.5-9.0

Tot Ion:	166	Resp:	120636
Ion Ratio	Lower	Upper	
166	100		
165	98.4	72.6	109.0
167	13.5	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

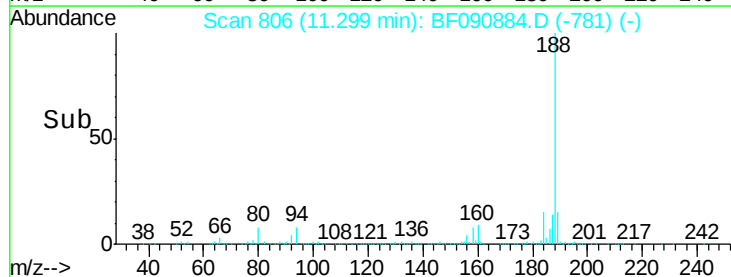
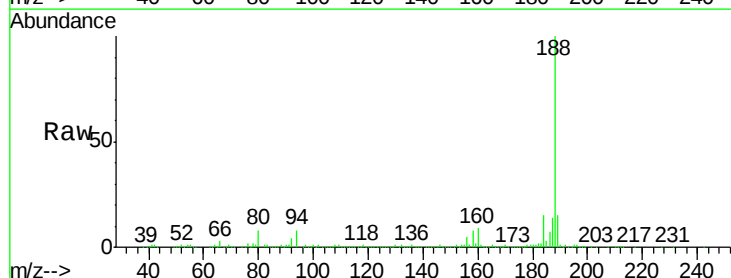
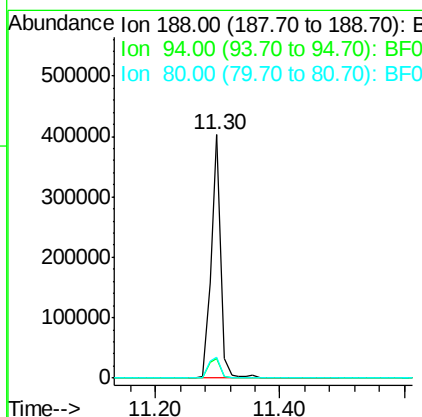
RT: 11.30 min Scan# 806

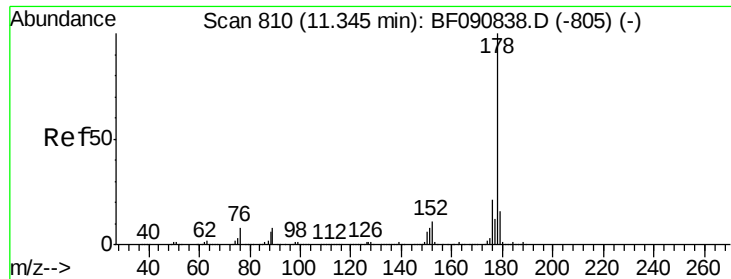
Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Tgt Ion:	188	Resp:	424755
Ion Ratio	Lower	Upper	
188	100		
94	7.8	11.1	16.7#
80	8.4	11.0	16.4#





#70

Phenanthrene

Concen: 62.07 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0

Tot Ion:178 Resp: 1342501

Ion Ratio Lower Upper

178 100

176 20.7 13.8 20.8

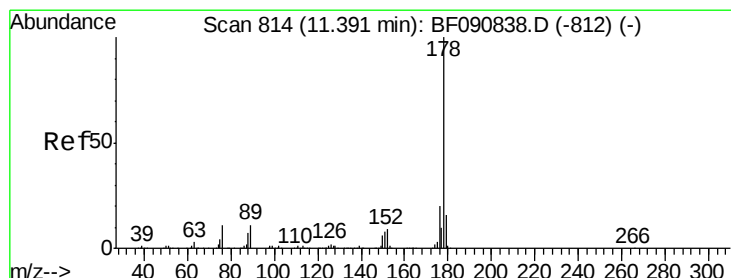
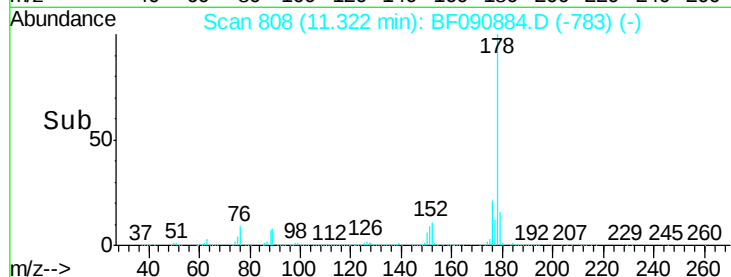
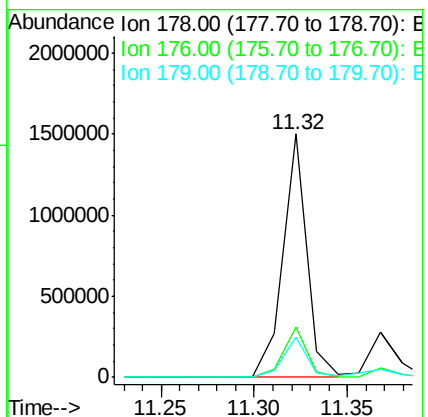
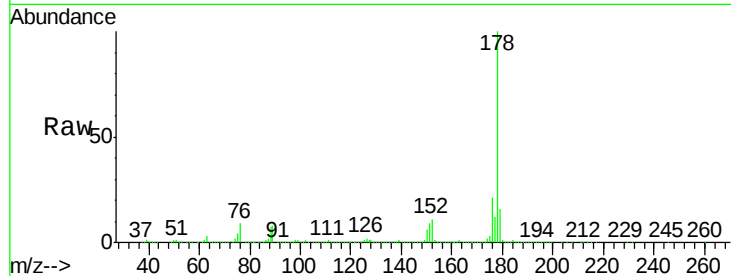
179 16.5 12.2 18.2

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#71

Anthracene

Concen: 13.39 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

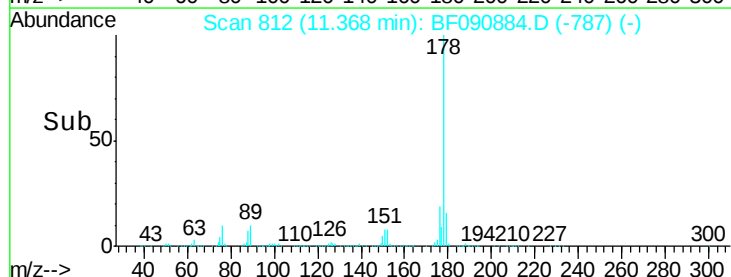
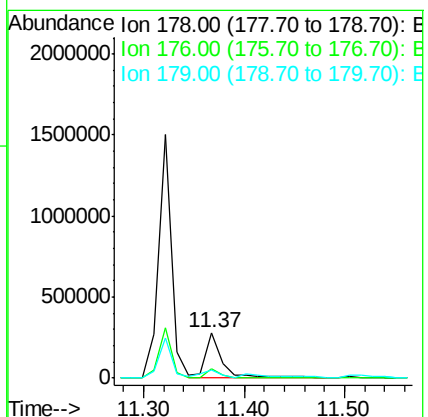
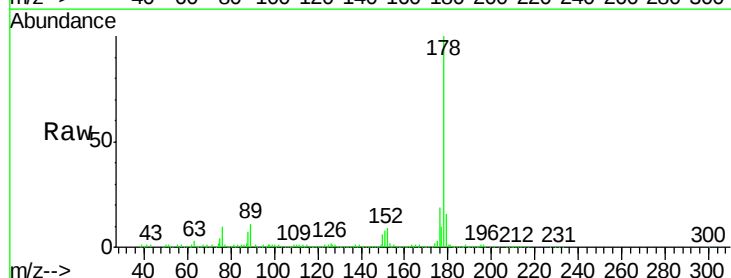
Tgt Ion:178 Resp: 305060

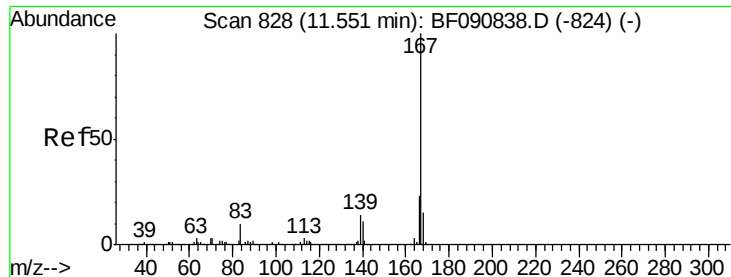
Ion Ratio Lower Upper

178 100

176 19.2 14.1 21.1

179 16.4 12.2 18.2





#72

Carbazole

Concen: 4.50 ng

RT: 11.53 min Scan# 826

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

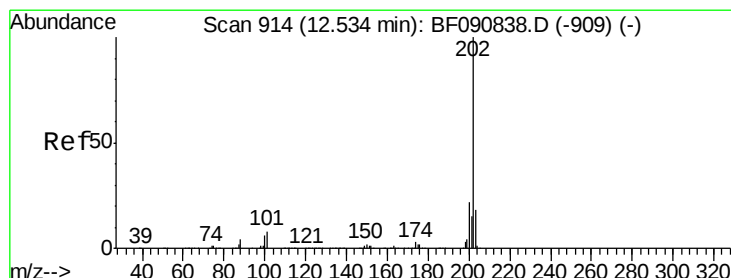
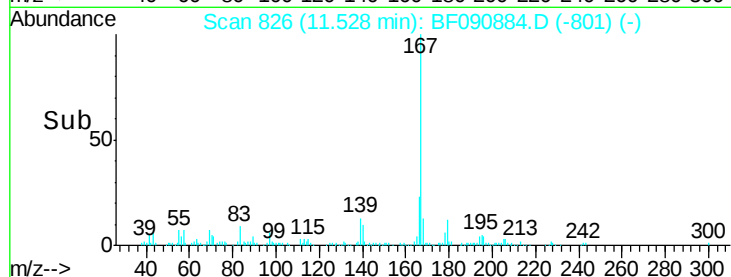
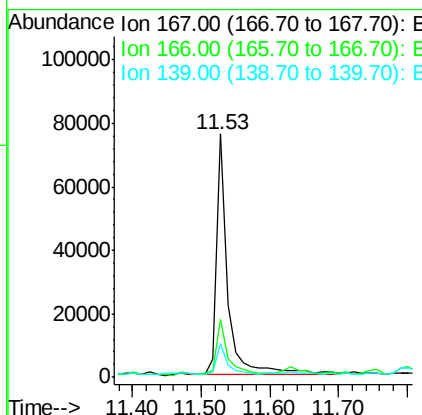
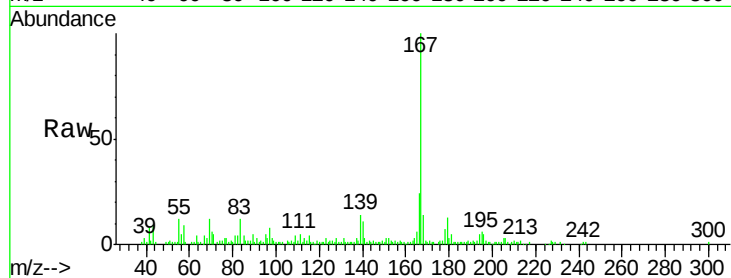
ClientSampled :

SB-02-8.5-9.0

Tot Ion:	167	Resp:	90419
Ion Ratio	Lower	Upper	
167	100		
166	23.6	15.7	23.5#
139	13.9	9.5	14.3

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#74

Fluoranthene

Concen: 60.26 ng

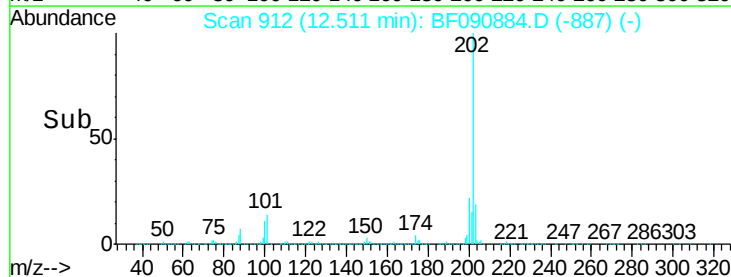
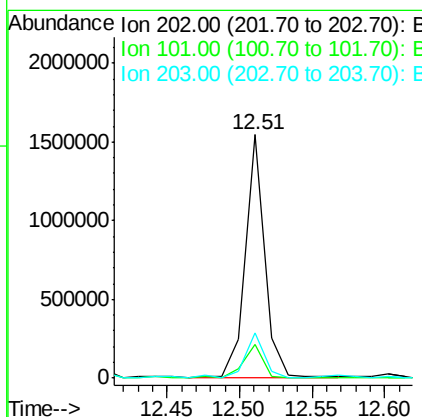
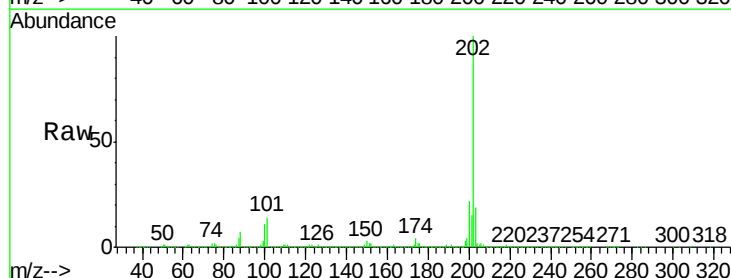
RT: 12.51 min Scan# 912

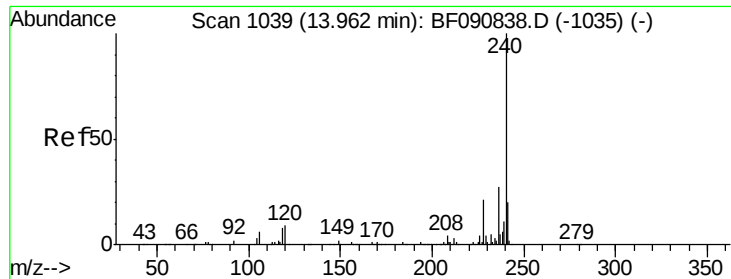
Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Tgt Ion:	202	Resp:	1427394
Ion Ratio	Lower	Upper	
202	100		
101	14.1	0.0	38.3
203	18.8	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

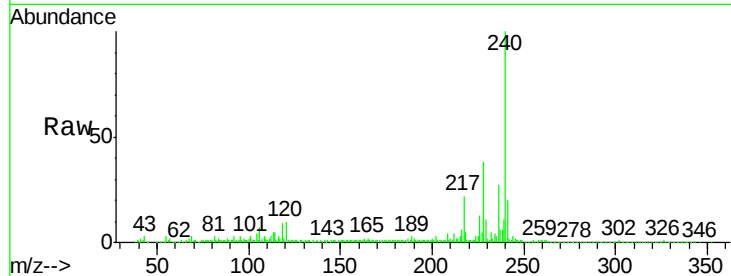
ClientSampleId :

SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.2	16.2	24.2#
236	26.9	18.4	27.6

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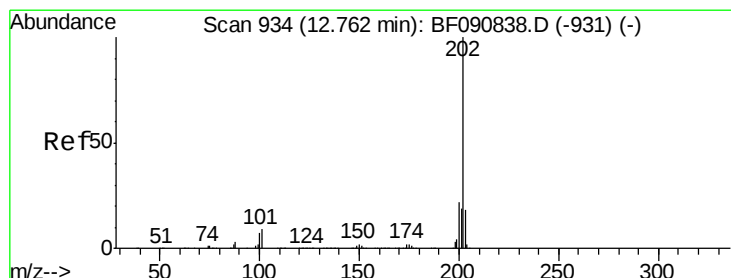
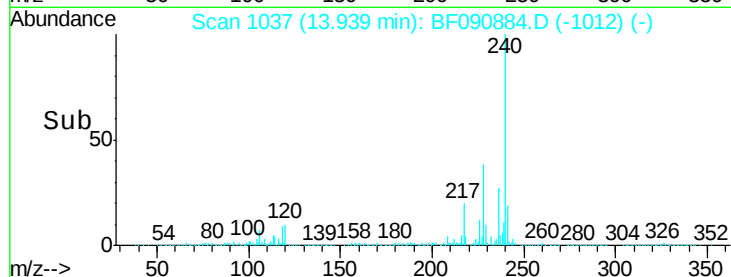
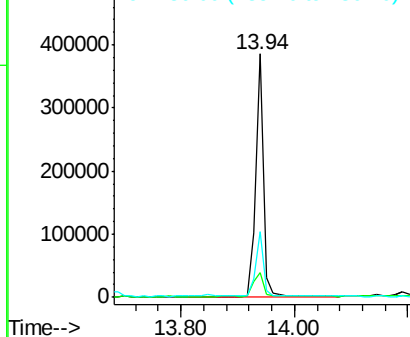


Abundance

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: 64.35 ng m

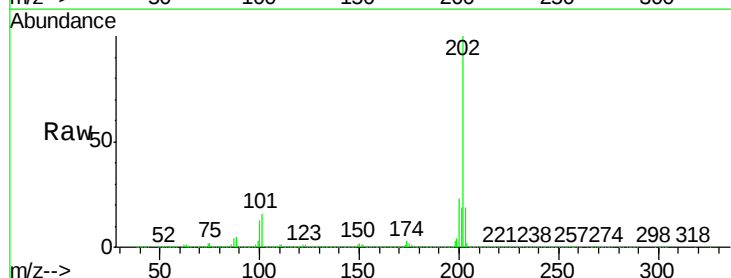
RT: 12.74 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.7	15.0	22.4#
203	18.8	14.1	21.1

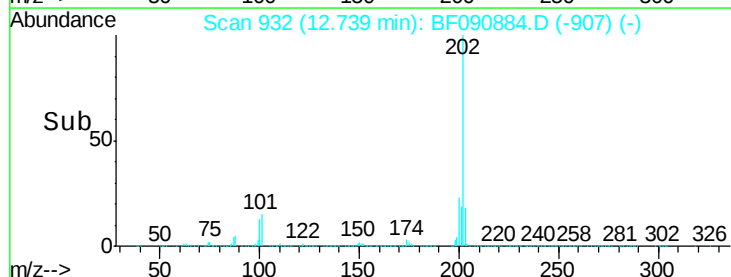
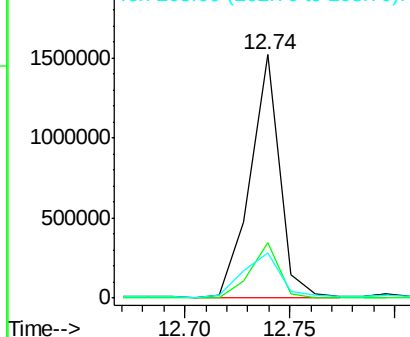


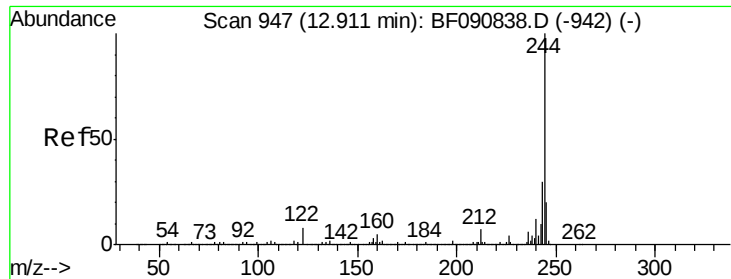
Abundance

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: 51.63 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

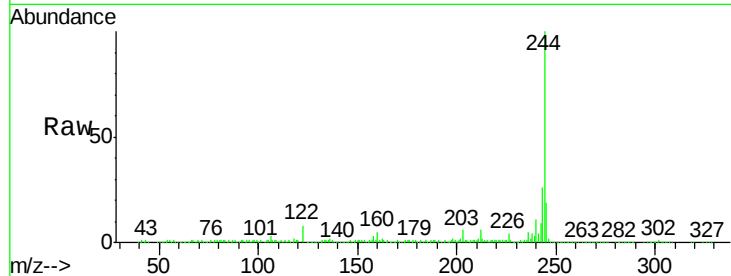
ClientSampleId :

SB-02-8.5-9.0

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	4.3	6.5
122	7.6	17.4	26.2

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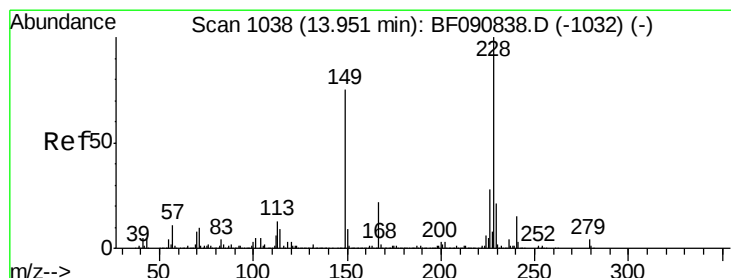
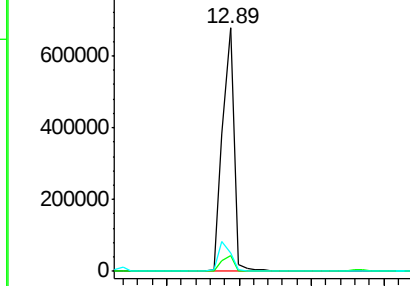
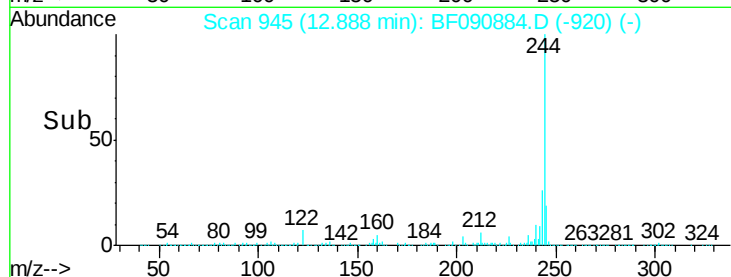
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 36.90 ng m

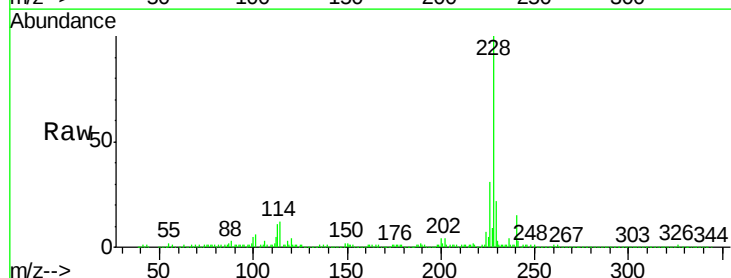
RT: 13.93 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

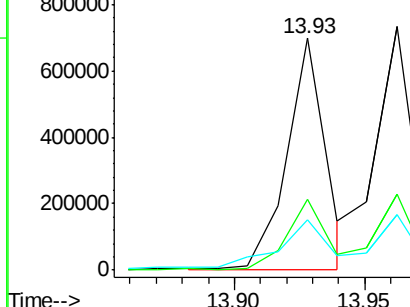
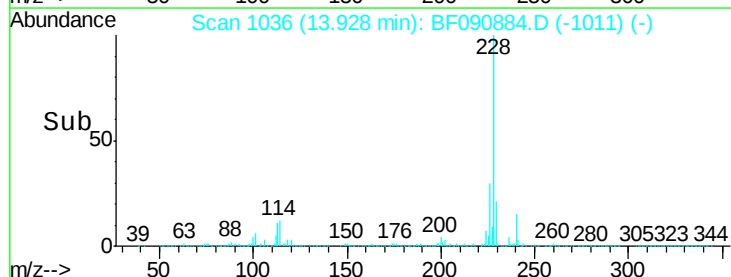
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	20.0	30.0
229	21.9	15.4	23.2

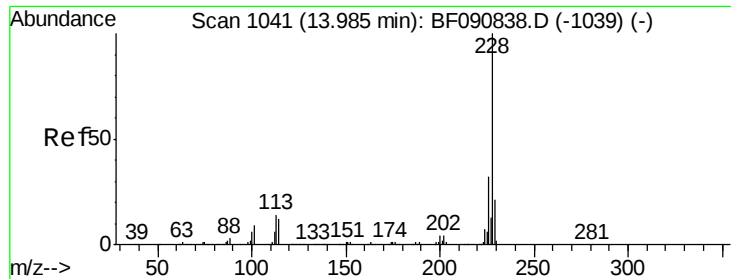


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 37.48 ng m

RT: 13.96 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Instrument :

BNA_F

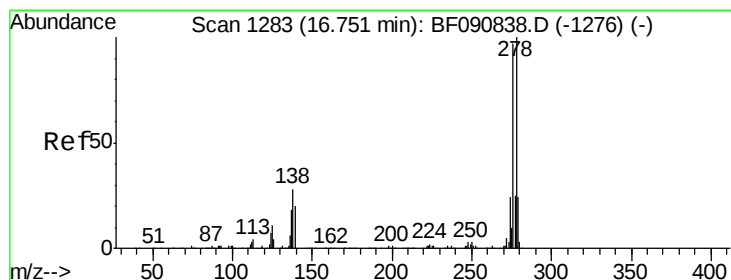
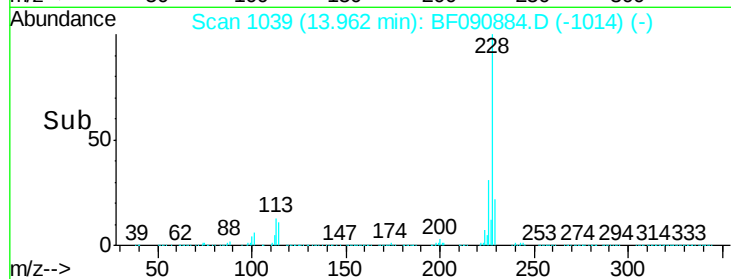
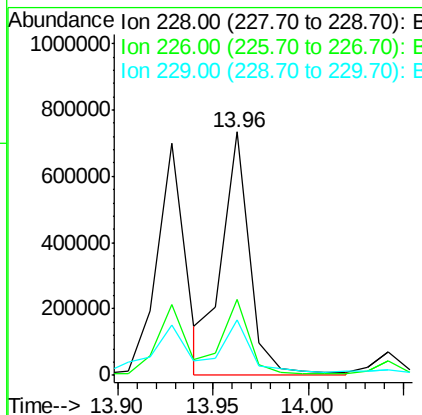
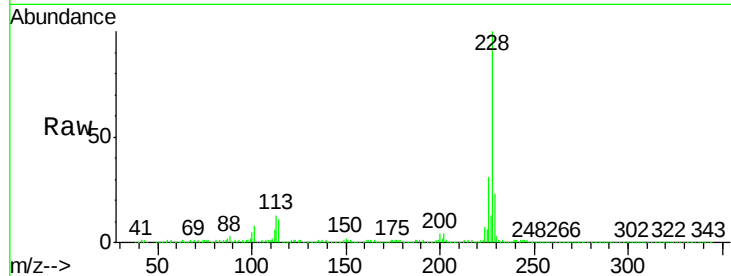
ClientSampleId :

SB-02-8.5-9.0

Tot Ion:	228	Resp:	746008
Ion Ratio	Lower	Upper	
228	100		
226	31.1	21.0	31.4
229	23.0	15.6	23.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 15.54 ng m

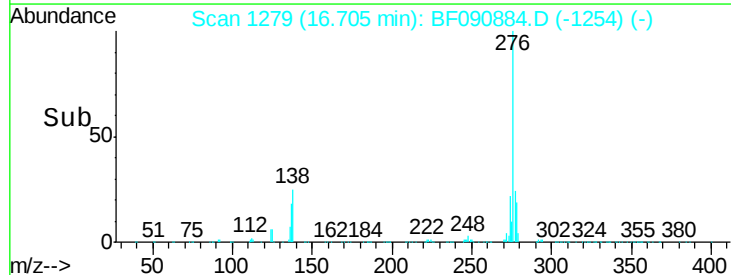
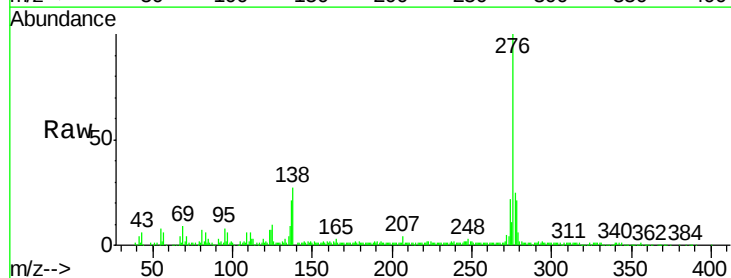
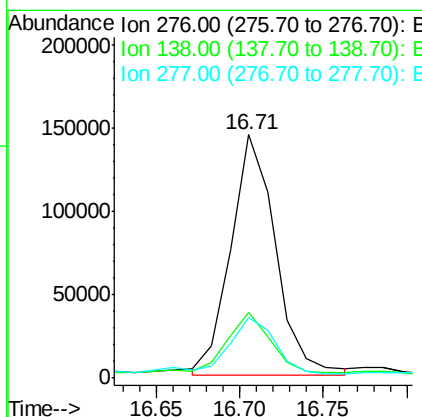
RT: 16.71 min Scan# 1279

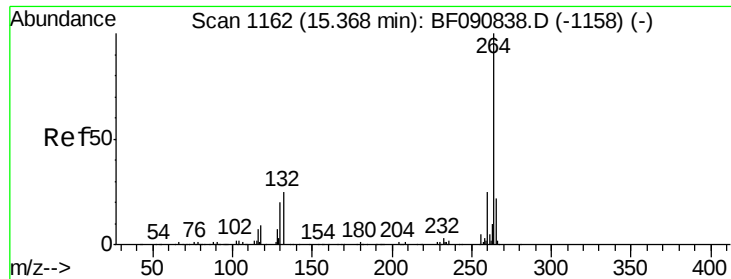
Delta R.T. -0.01 min

Lab File: BF090884.D

Acq: 27 Oct 2016 23:19

Tgt Ion:	276	Resp:	274072
Ion Ratio	Lower	Upper	
276	100		
138	5.7	25.7	38.5#
277	4.6	15.6	23.4#





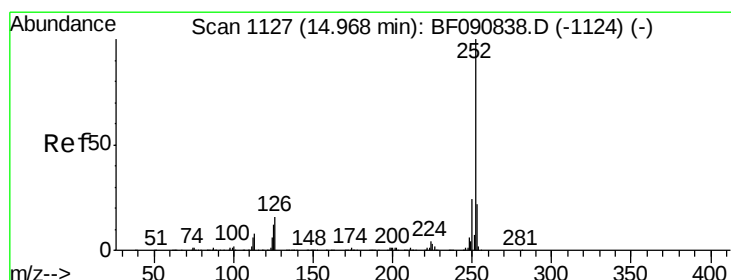
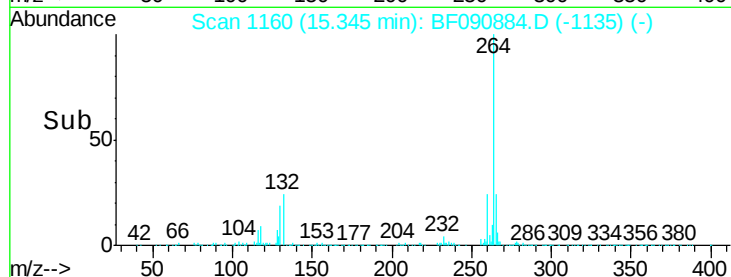
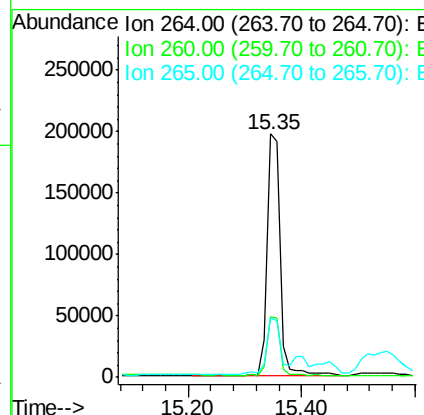
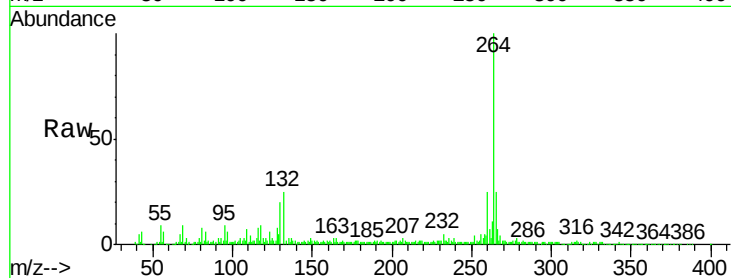
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
264	100				
260	24.8	16.7	25.1		
265	24.6	17.2	25.8		

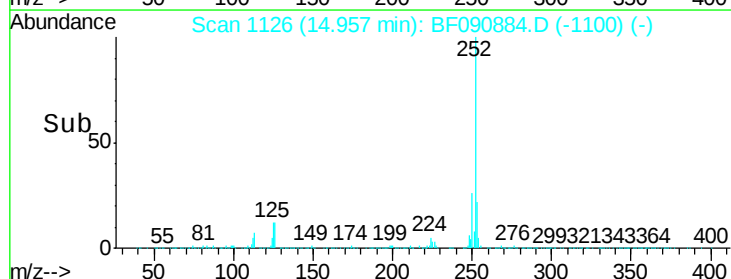
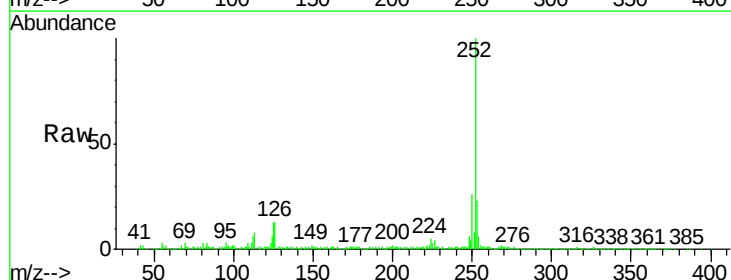
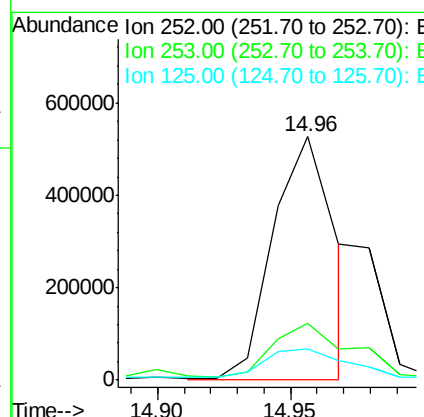
Manual Integrations
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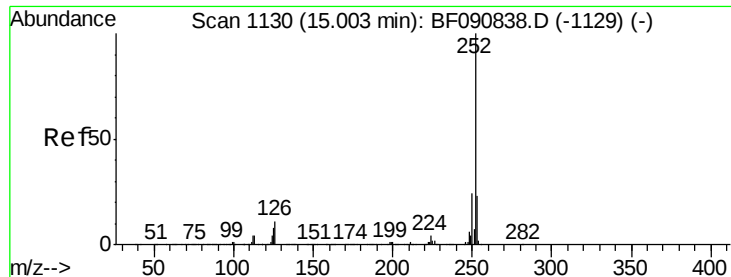
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#87
Benzo(b)fluoranthene
Concen: 39.31 ng m
RT: 14.96 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100				
253	23.2	17.5	26.3		
125	12.7	17.1	25.7#		





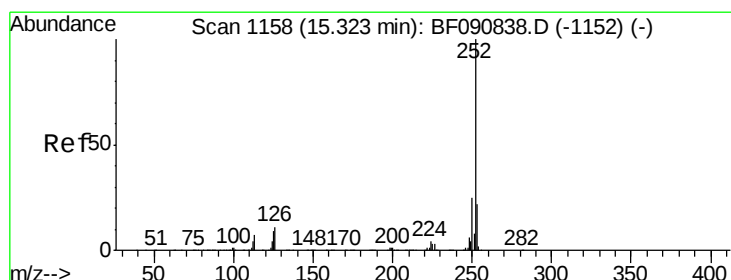
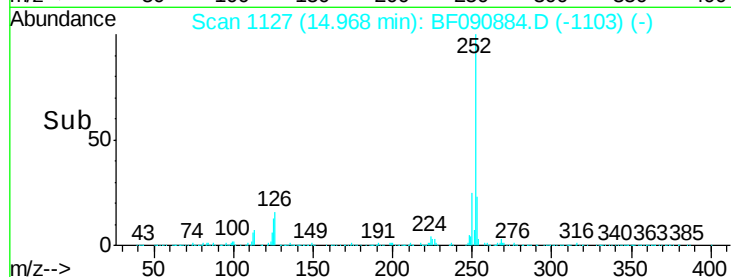
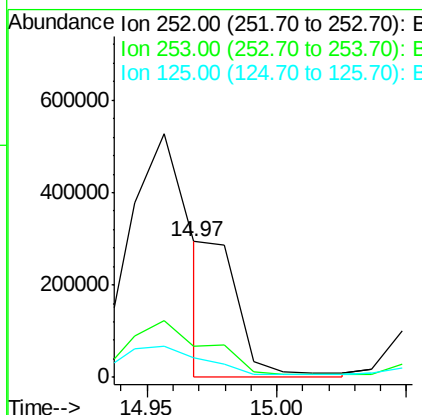
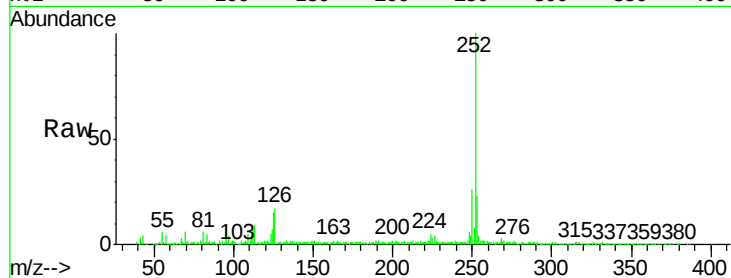
#88
Benzo(k)fluoranthene
Concen: 13.88 ng m
RT: 14.97 min Scan# 1127
Delta R.T. -0.02 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Resp	Lower	Upper
252	100	239544		
253	23.4		17.0	25.4
125	14.8		16.0	24.0

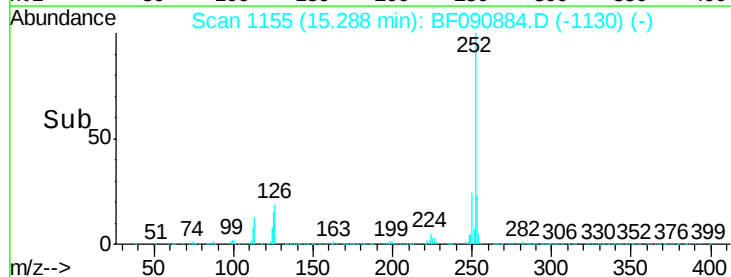
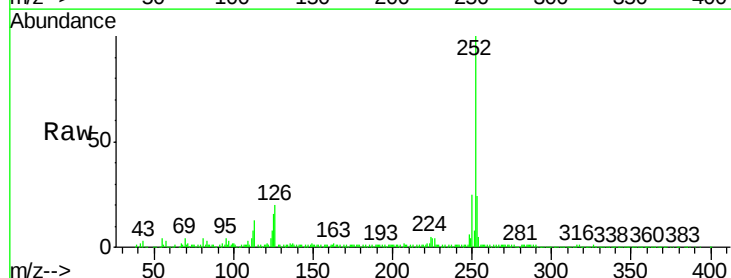
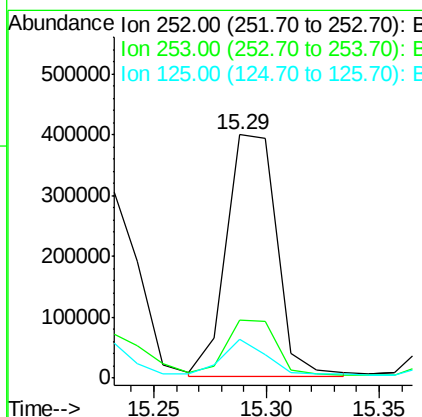
Manual Integrations
APPROVED

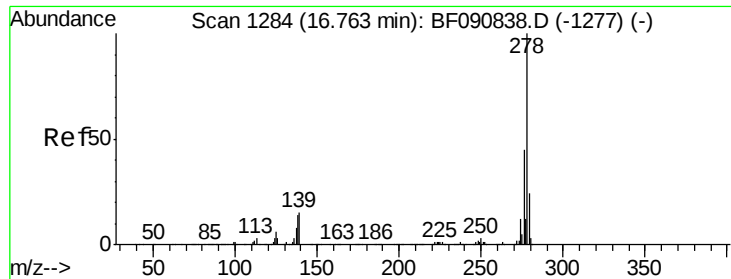
sohil
10/28/2016 5:23:03 PM



#89
Benzo(a)pyrene
Concen: 33.21 ng m
RT: 15.29 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	623037		
253	24.0		17.2	25.8
125	16.1		18.0	27.0





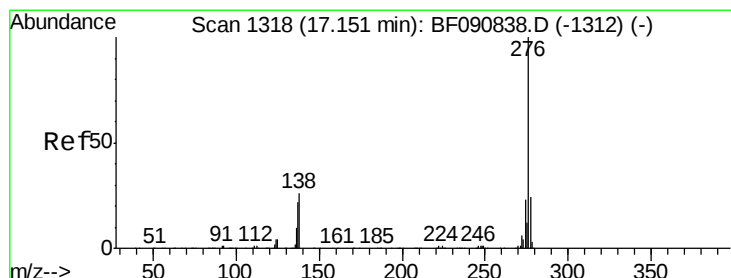
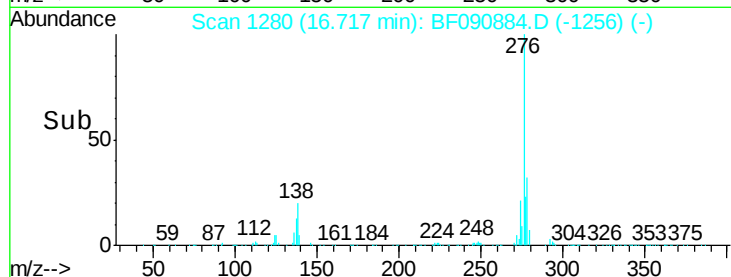
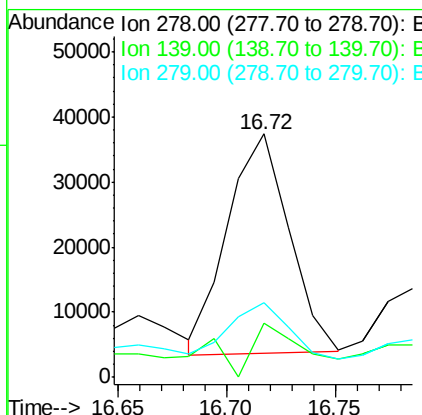
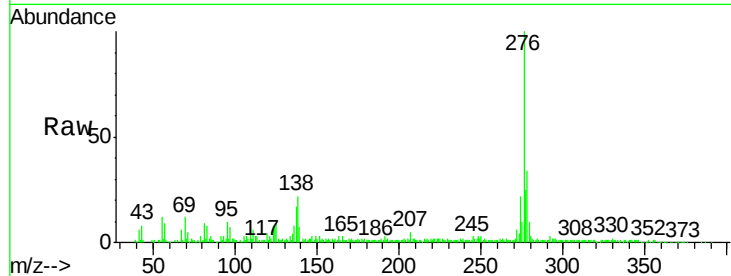
#90
Dibenzo(a,h)anthracene
Concen: 4.20 ng
RT: 16.72 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

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

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.3	26.3	39.5#
279	30.9	18.2	27.4#

Manual Integrations
APPROVED

sohil
10/28/2016 5:23:03 PM



#91
Benzo(g,h,i)perylene
Concen: 17.60 ng
RT: 17.12 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BF090884.D
Acq: 27 Oct 2016 23:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.8	26.6
138	27.4	34.6	51.8#

