

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
 Data File : BF090997.D
 Acq On : 2 Nov 2016 23:13
 Operator : UM/SJ
 Sample : H5411-05RE
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Umangi
 11/3/2016 7:14:19 PM

Quant Time: Nov 03 02:00:37 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	6.72	152	166432	20.00	ng	-0.03
21) Naphthalene-d8	8.01	136	670033	20.00	ng	-0.03
38) Acenaphthene-d10	9.77	164	312840	20.00	ng	-0.02
63) Phenanthrene-d10	11.24	188	434648	20.00	ng	-0.02
75) Chrysene-d12	13.88	240	365409	20.00	ng	-0.02
86) Perylene-d12	15.29	264	313393	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	1136559	119.40	ng	-0.01
7) Phenol-d6	6.37	99	1614047	125.68	ng	-0.02
23) Nitrobenzene-d5	7.29	82	809384	79.08	ng	-0.03
41) 2,4,6-Tribromophenol	10.56	330	292429	90.96	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	1221785	68.58	ng	-0.02
78) Terphenyl-d14	12.83	244	795374	54.84	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.03	128	233952	7.47	ng	99
37) 2-Methylnaphthalene	8.73	142	71097	3.51	ng	# 91
48) Acenaphthylene	9.62	152	62663	2.41	ng	# 94
49) Dimethylphthalate	9.49	163	524618	25.10	ng	# 97
51) Acenaphthene	9.79	154	149381	8.36	ng	88
54) Dibenzofuran	9.96	168	122426	5.31	ng	# 82
57) Fluorene	10.30	166	134322	7.11	ng	91
70) Phenanthrene	11.28	178	1561307	70.54	ng	96
71) Anthracene	11.32	178	327143	14.04	ng	98
72) Carbazole	11.48	167	91811	4.46	ng	94
74) Fluoranthene	12.46	202	1674361	69.08	ng	86
77) Pyrene	12.68	202	1598405	69.12	ng	92
80) Benzo(a)anthracene	13.87	228	840092	43.32	ng	# 90
82) Chrysene	13.91	228	648999m	33.09	ng	
85) Indeno(1,2,3-cd)pyrene	16.61	276	287541	16.54	ng	# 87
87) Benzo(b)fluoranthene	14.90	252	861154m	40.86	ng	
88) Benzo(k)fluoranthene	14.91	252	183821m	11.04	ng	
89) Benzo(a)pyrene	15.23	252	597768	33.01	ng	# 84
90) Dibenzo(a,h)anthracene	16.61	278	91235	5.95	ng	# 86
91) Benzo(g,h,i)perylene	17.01	276	279583	19.37	ng	# 81

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

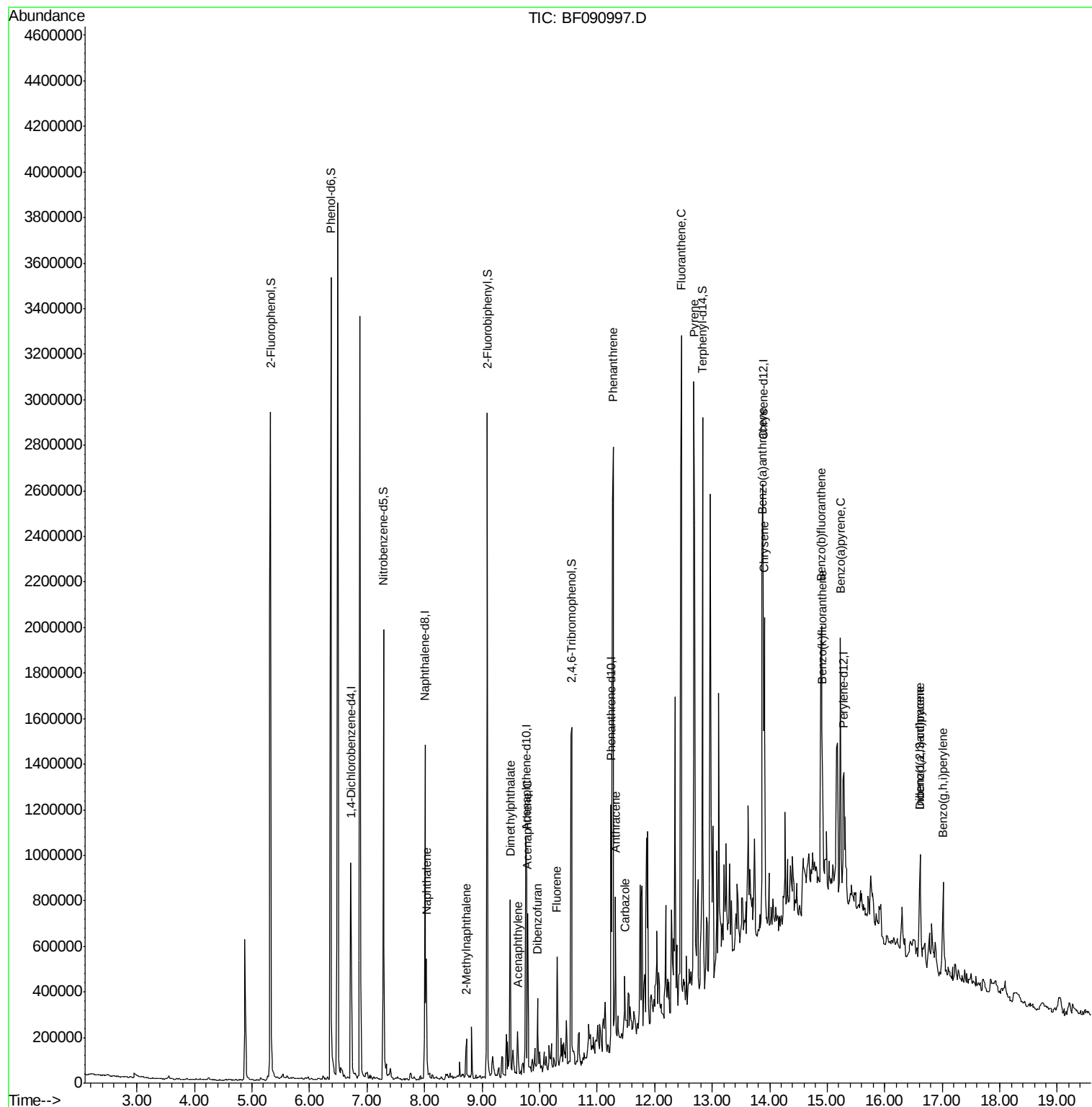
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090997.D
Acq On : 2 Nov 2016 23:13
Operator : UM/SJ
Sample : H5411-05RE
Misc :
ALS Vial : 24 Sample Multiplier: 1

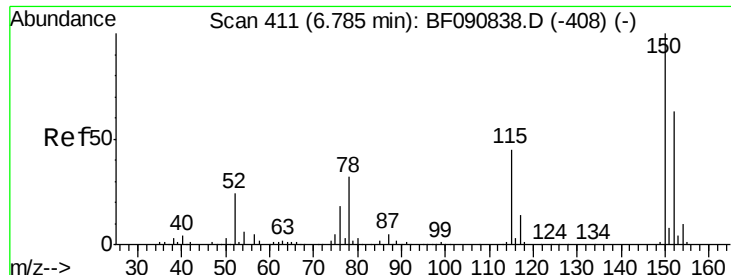
Instrument :
BNA_F
ClientSampleId :
SB-02-8.5-9.0RE

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 PM

Quant Time: Nov 03 02:00:37 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





#1

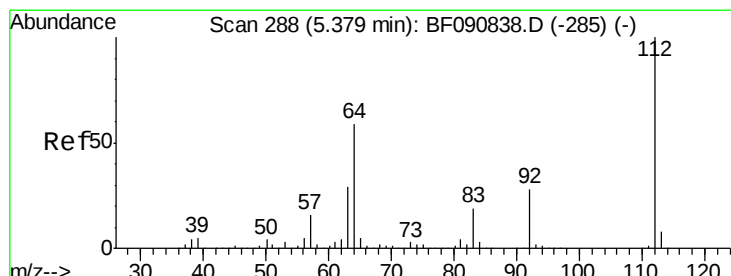
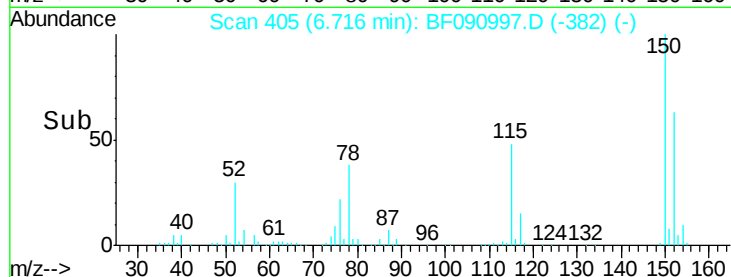
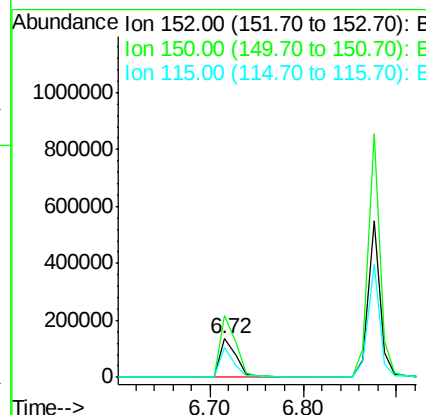
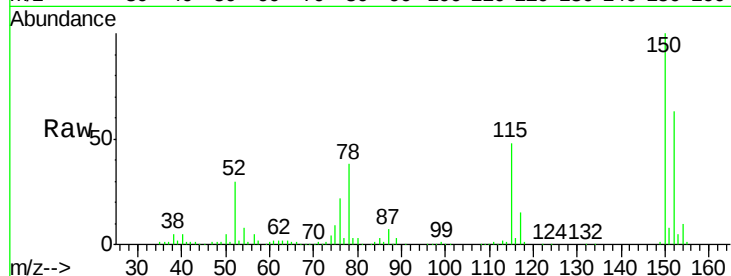
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 405
Delta R.T. -0.03 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.7	124.7	187.1
115	77.1	39.0	58.4

Manual Integrations
APPROVED

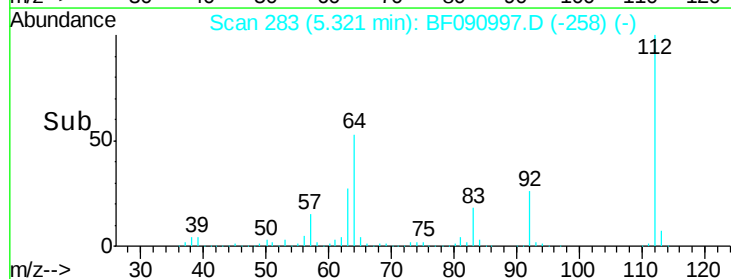
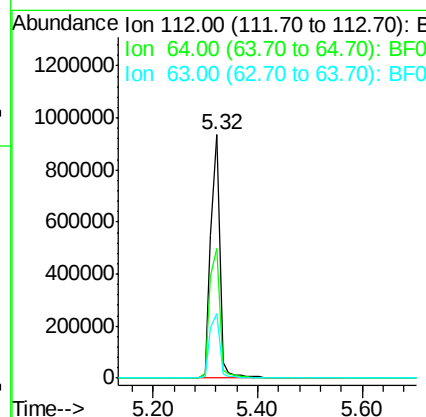
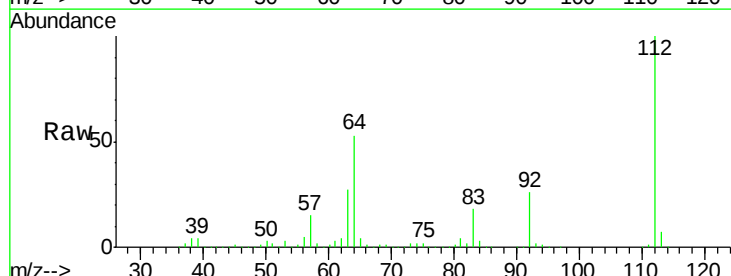
Umangi
11/3/2016 7:14:19 PM



#5

2-Fluorophenol
Concen: 119.40 ng
RT: 5.32 min Scan# 283
Delta R.T. -0.01 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.3	39.7	59.5
63	26.7	17.4	26.0





#7

Phenol-d6

Concen: 125.68 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.02 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion: 99 Resp: 1614047

Ion Ratio Lower Upper

99 100

42 15.3 13.7 20.5

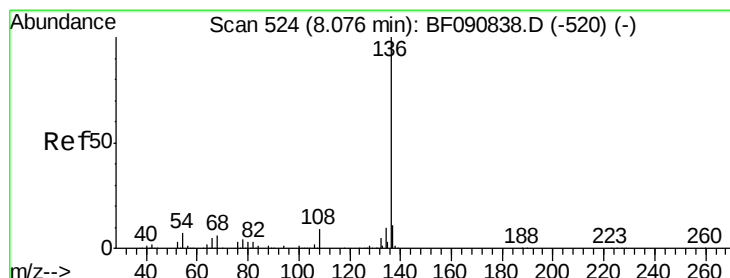
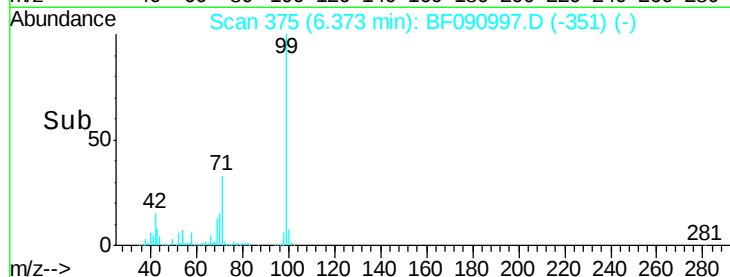
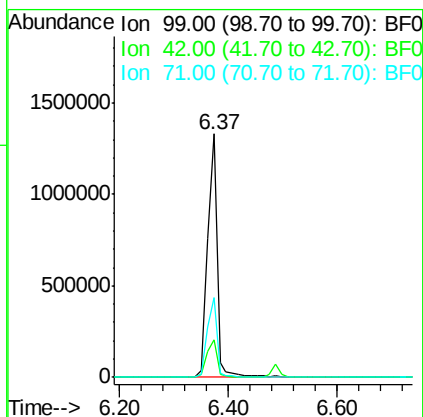
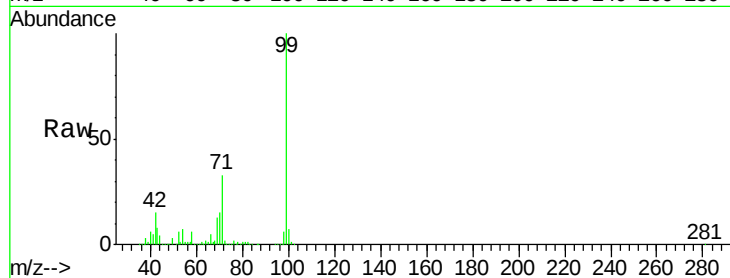
71 32.7 14.2 21.2#

Manual Integrations

APPROVED

Umangi

11/3/2016 7:14:19 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.01 min Scan# 518

Delta R.T. -0.03 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Tgt Ion: 136 Resp: 670033

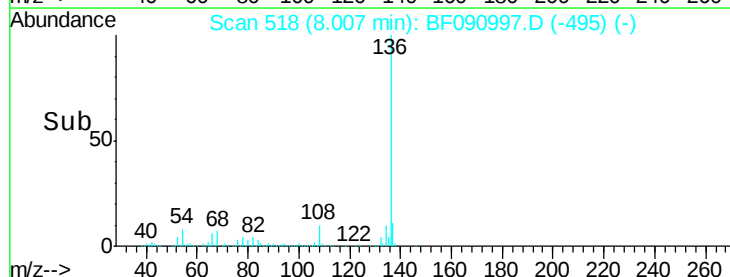
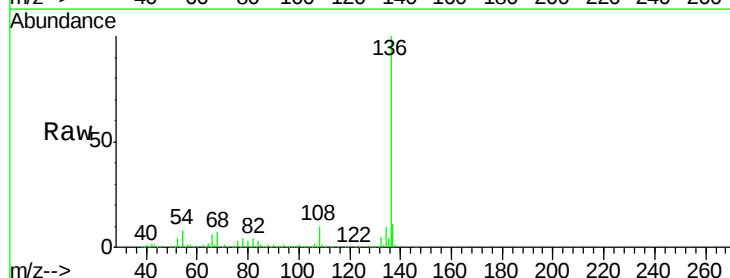
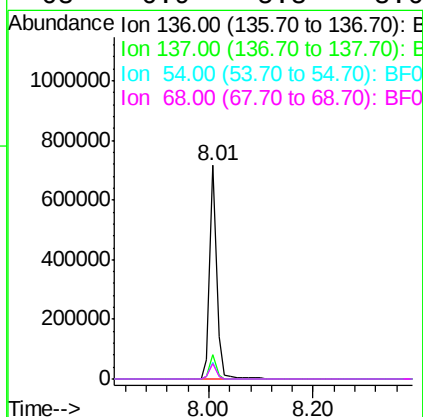
Ion Ratio Lower Upper

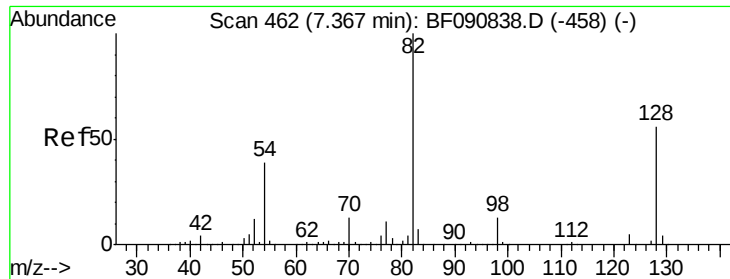
136 100

137 11.4 9.0 13.6

54 7.7 8.2 12.2#

68 6.9 5.8 8.6





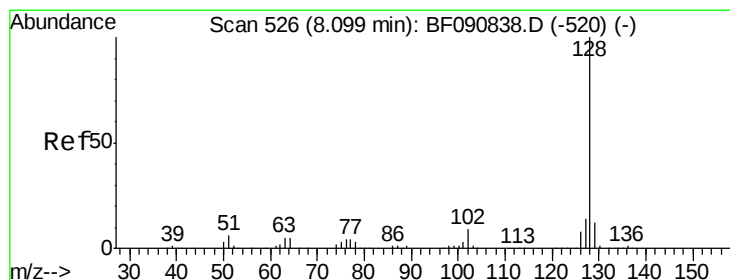
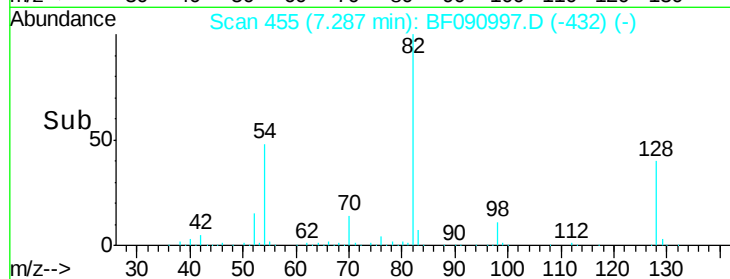
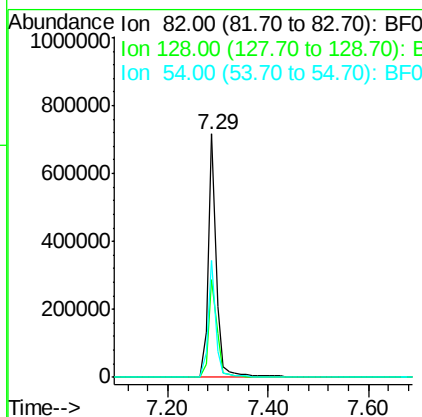
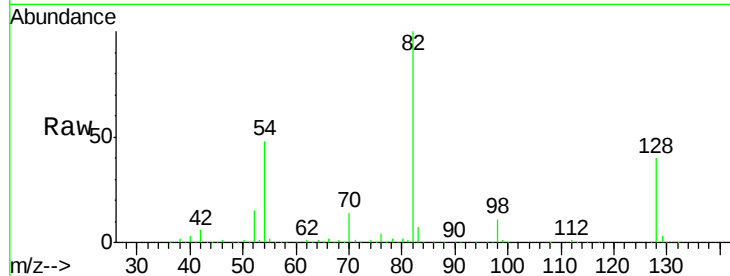
#23
Nitrobenzene-d5
Concen: 79.08 ng
RT: 7.29 min Scan# 455
Delta R.T. -0.03 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.3	51.0	76.6#
54	48.1	47.5	71.3

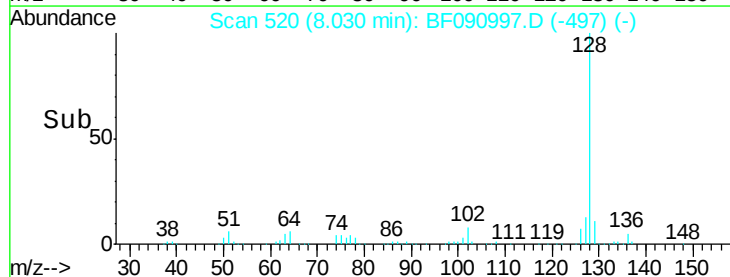
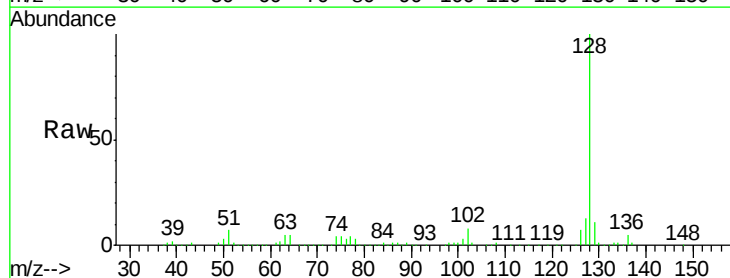
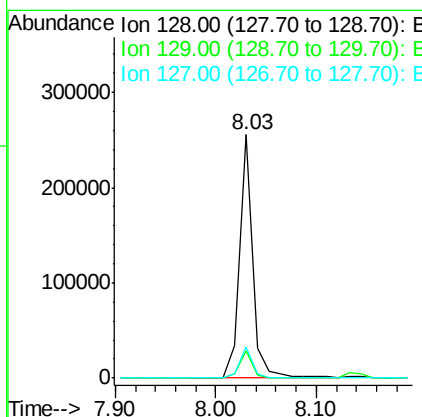
Manual Integrations
APPROVED

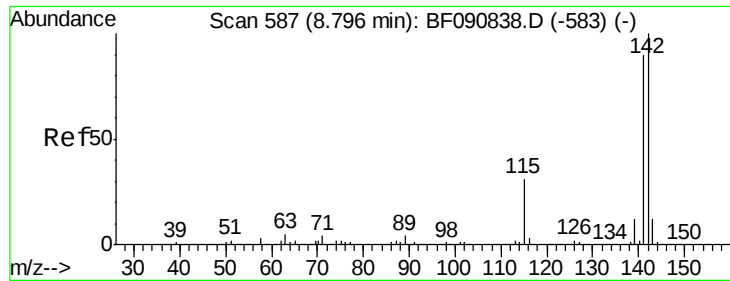
Umangi
11/3/2016 7:14:19 PM



#31
Naphthalene
Concen: 7.47 ng
RT: 8.03 min Scan# 520
Delta R.T. -0.03 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	12.8	9.9	14.9





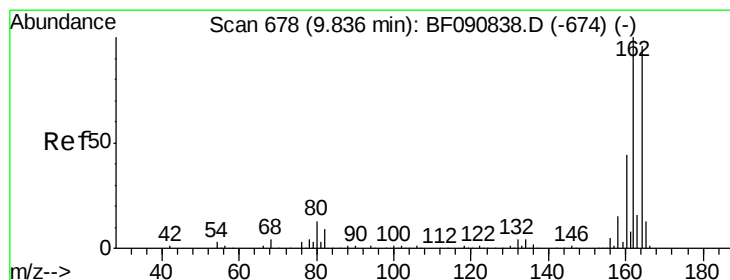
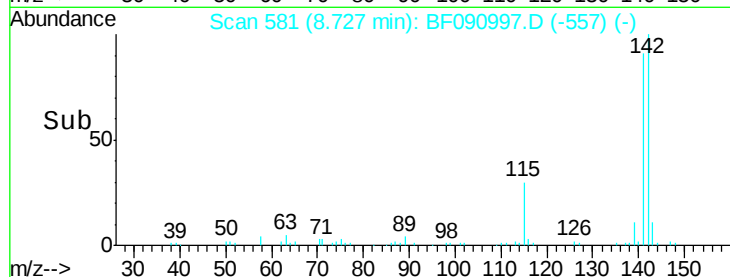
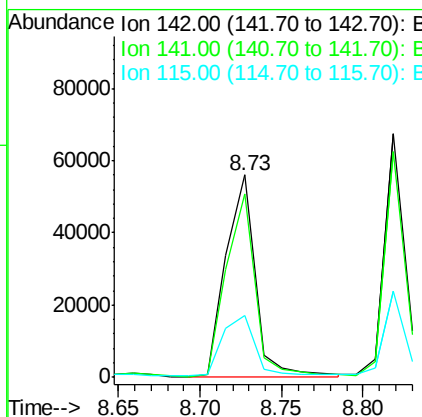
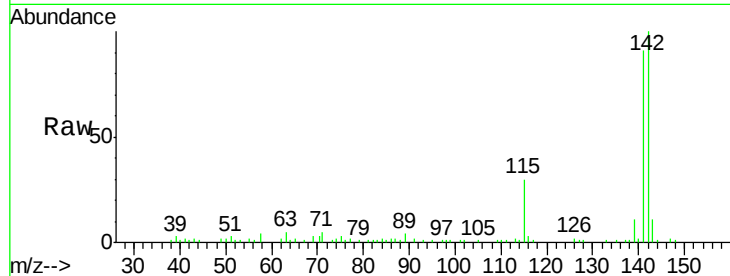
#37
 2-Methylnaphthalene
 Concen: 3.51 ng
 RT: 8.73 min Scan# 581
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.5	67.5	101.3
115	30.3	18.2	27.2

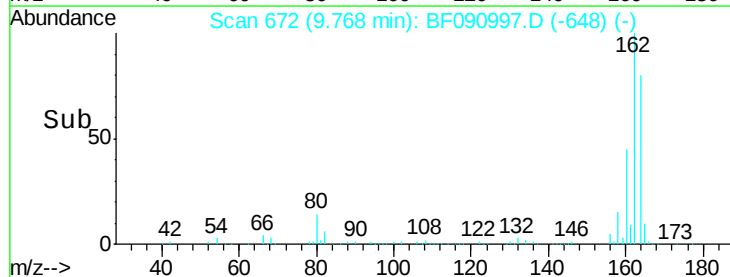
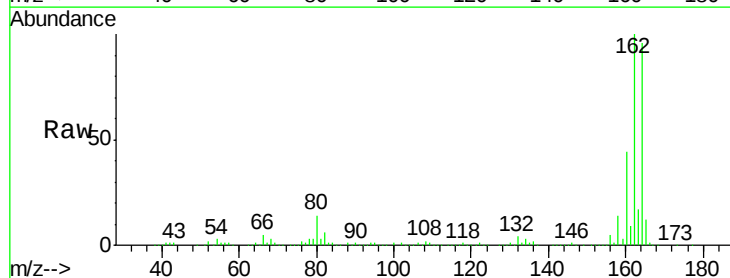
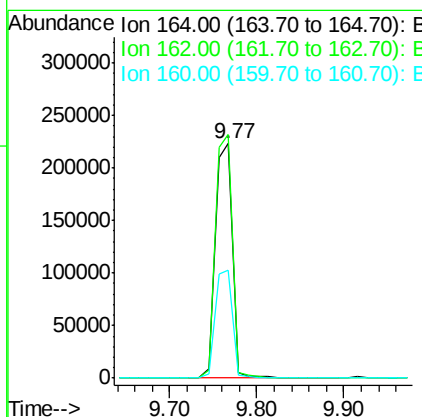
Manual Integrations
 APPROVED

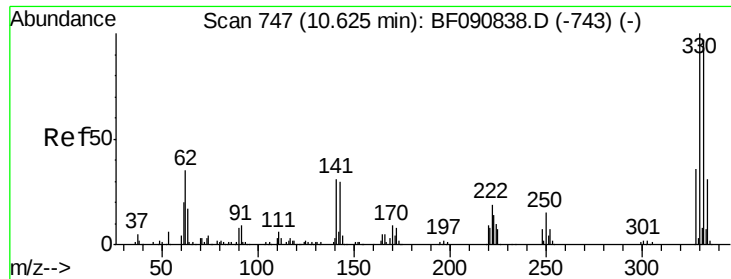
Umangi
 11/3/2016 7:14:19 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.77 min Scan# 672
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	75.2	112.8
160	45.9	31.5	47.3





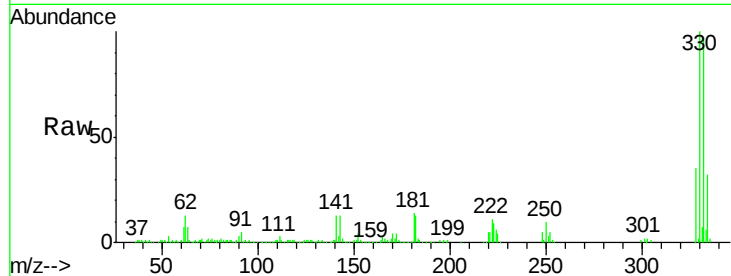
#41
 2,4,6-Tribromophenol
 Concen: 90.96 ng
 RT: 10.56 min Scan# 741
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

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

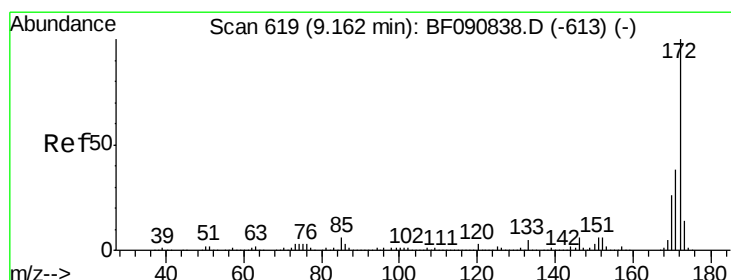
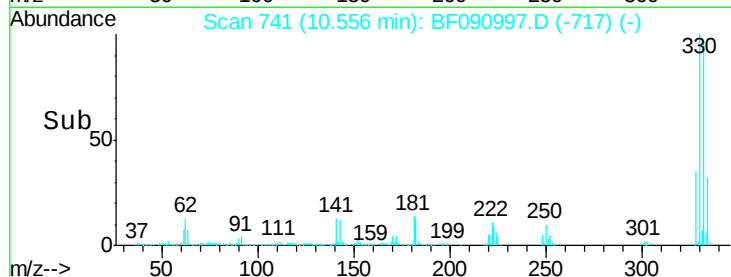
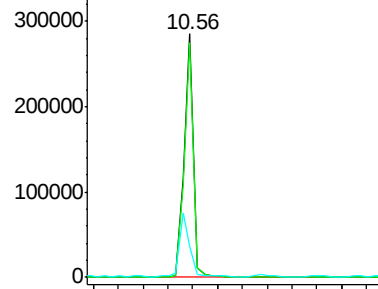
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	292429		
332	95.7	76.6	114.8	
141	28.8	29.7	44.5#	

Manual Integrations
 APPROVED

Umangi
 11/3/2016 7:14:19 PM



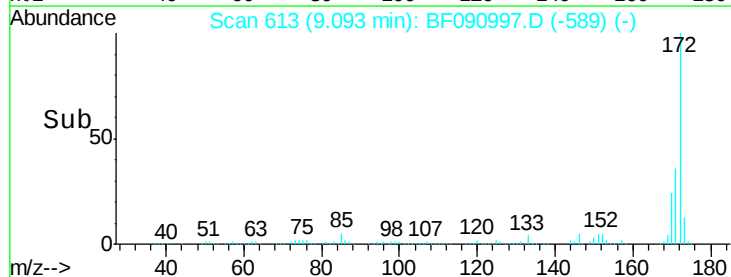
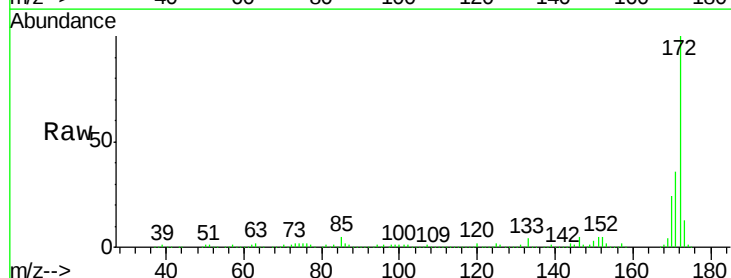
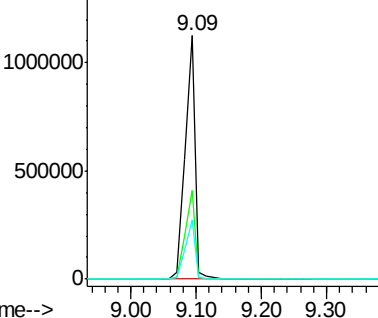
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

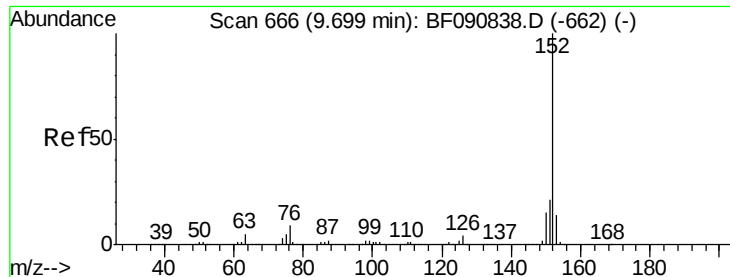


#44
 2-Fluorobiphenyl
 Concen: 68.58 ng
 RT: 9.09 min Scan# 613
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1221785		
171	36.2	26.1	39.1	
170	24.2	17.4	26.2	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.41 ng

RT: 9.62 min Scan# 659

Delta R.T. -0.03 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

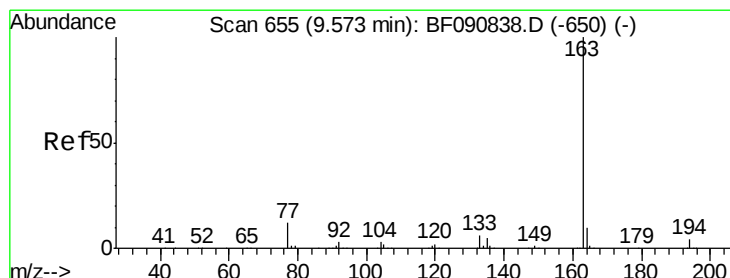
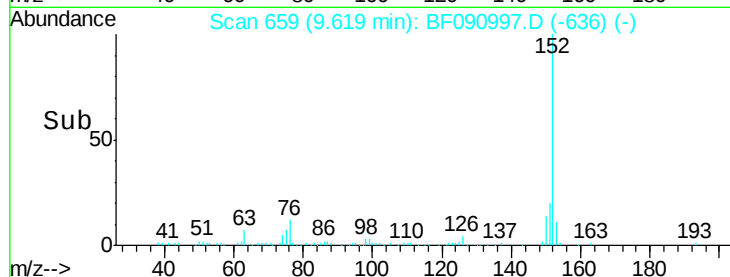
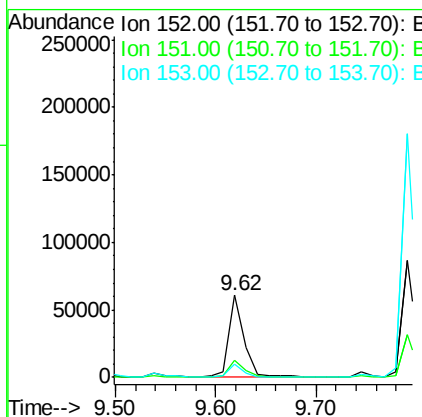
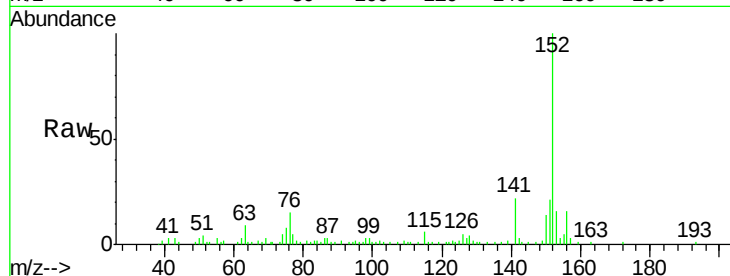
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	152	Resp:	62663
Ion Ratio	Lower	Upper	
152	100		
151	20.6	14.6	22.0
153	15.7	10.3	15.5

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 PM



#49

Dimethylphthalate

Concen: 25.10 ng

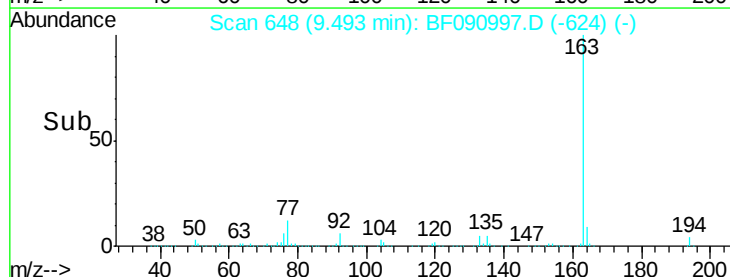
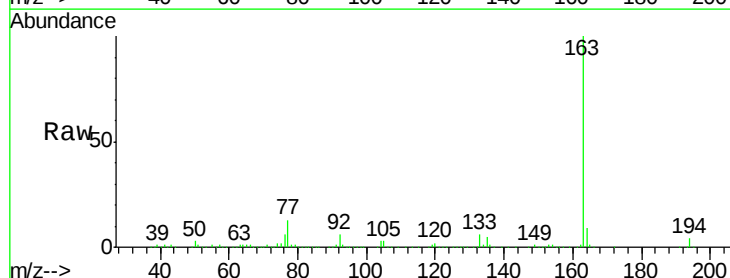
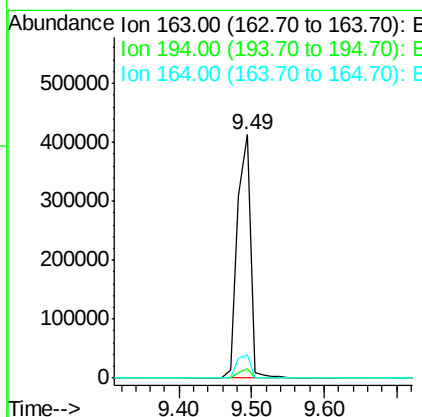
RT: 9.49 min Scan# 648

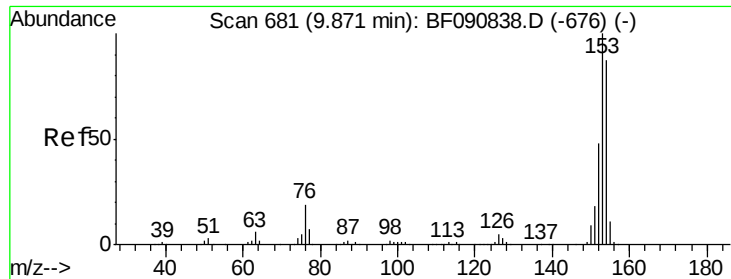
Delta R.T. -0.02 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Tgt Ion:	163	Resp:	524618
Ion Ratio	Lower	Upper	
163	100		
194	4.0	4.4	6.6
164	9.4	8.3	12.5





#51

Acenaphthene

Concen: 8.36 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.03 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

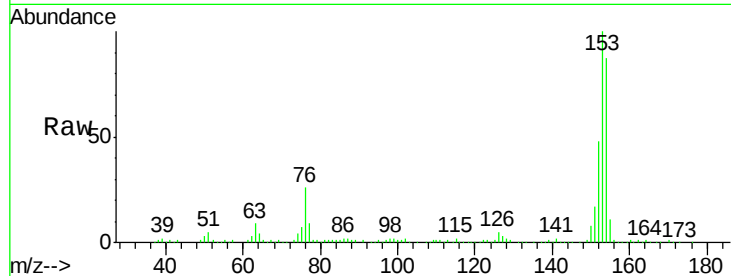
ClientSampleId :

SB-02-8.5-9.0RE

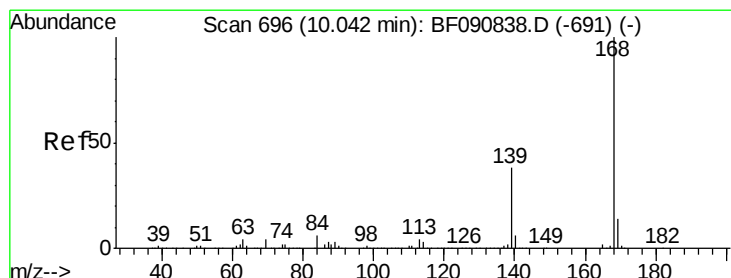
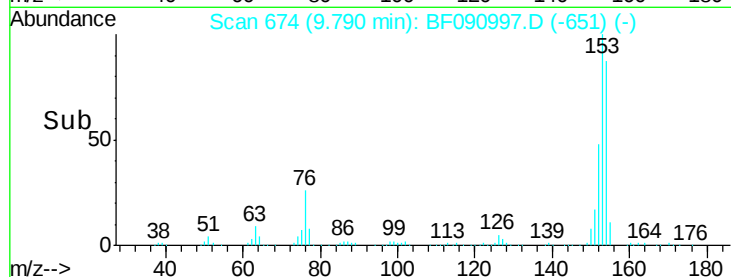
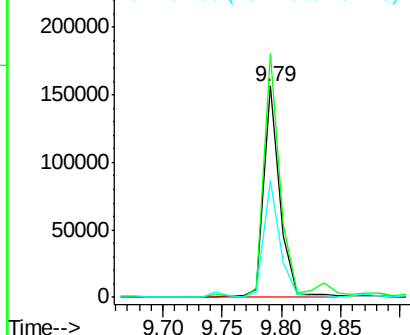
Tgt Ion:	154	Resp:	149381
Ion Ratio	Lower	Upper	
154	100		
153	115.2	82.1	123.1
152	55.2	37.9	56.9

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 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: 5.31 ng

RT: 9.96 min Scan# 689

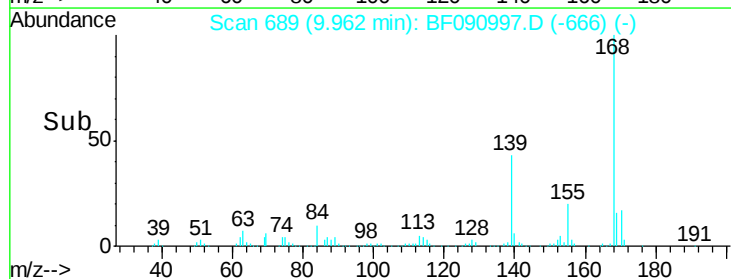
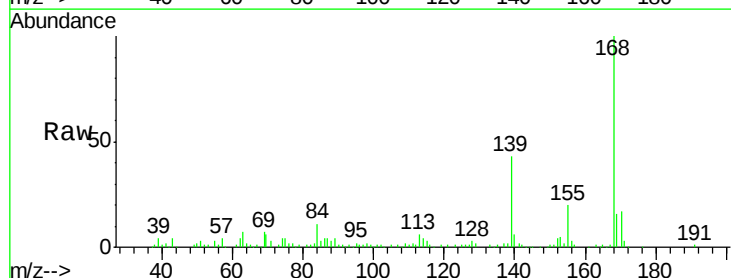
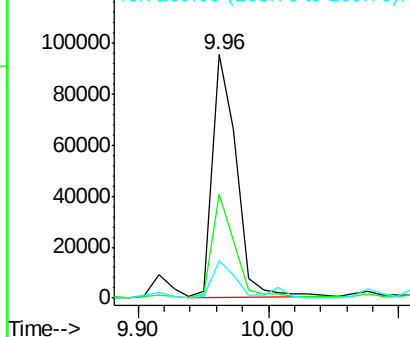
Delta R.T. -0.03 min

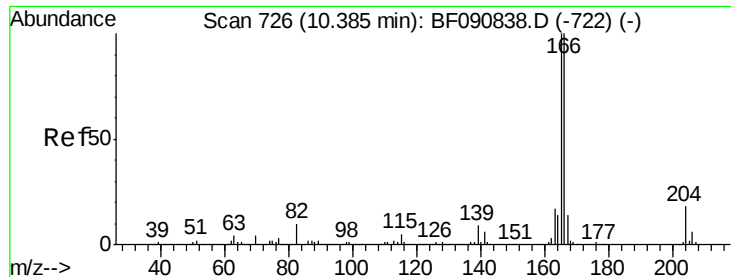
Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Tgt Ion:	168	Resp:	122426
Ion Ratio	Lower	Upper	
168	100		
139	42.9	24.2	36.2#
169	15.5	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





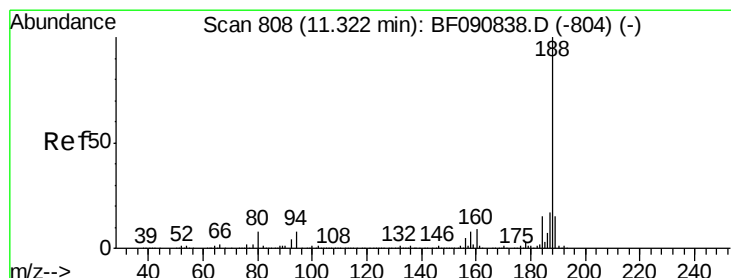
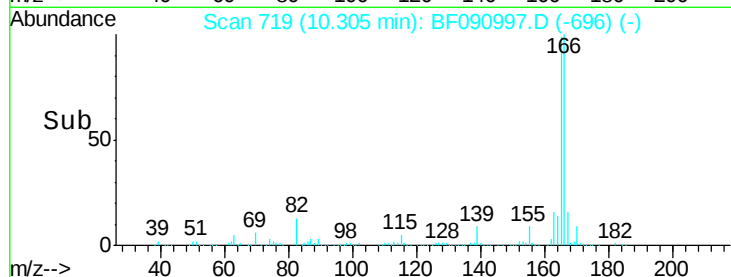
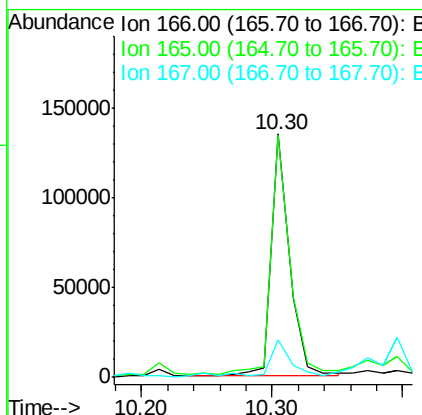
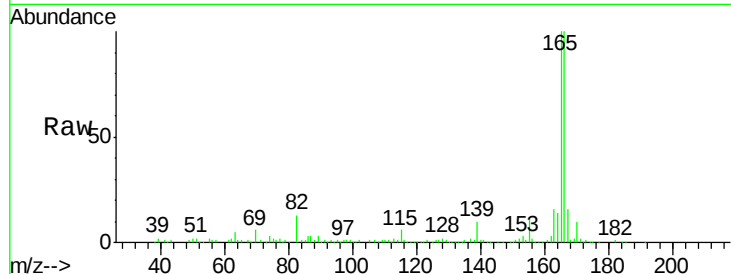
#57
Fluorene
Concen: 7.11 ng
RT: 10.30 min Scan# 719
Delta R.T. -0.03 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	134322		
165	99.8	72.6	109.0	
167	15.7	10.6	16.0	

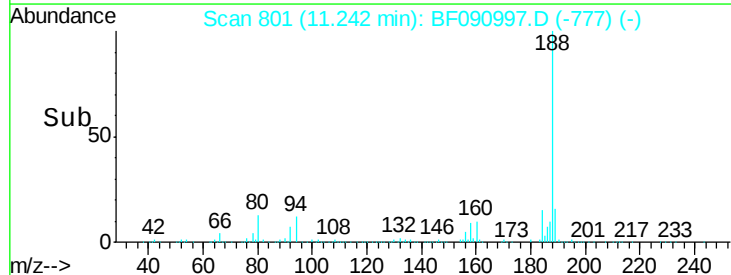
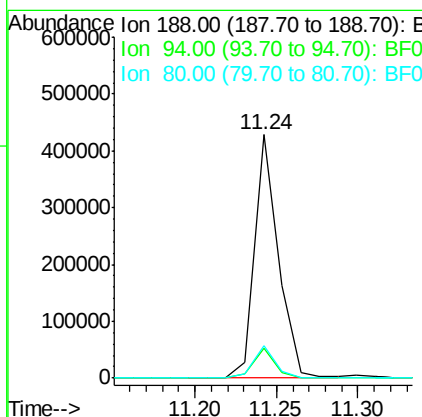
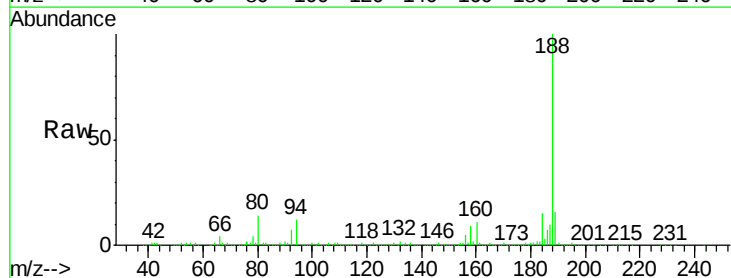
Manual Integrations
APPROVED

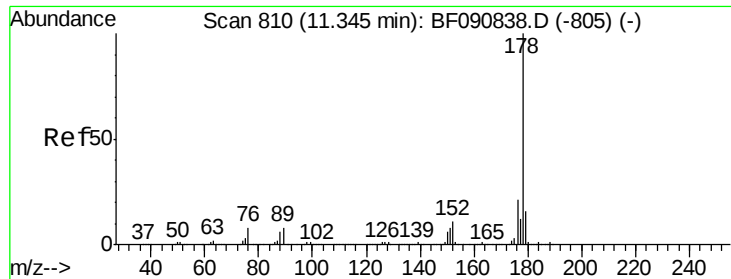
Umangi
11/3/2016 7:14:19 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	434648		
94	12.4	11.1	16.7	
80	13.5	11.0	16.4	





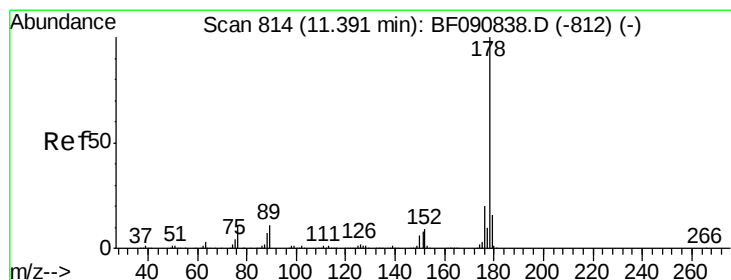
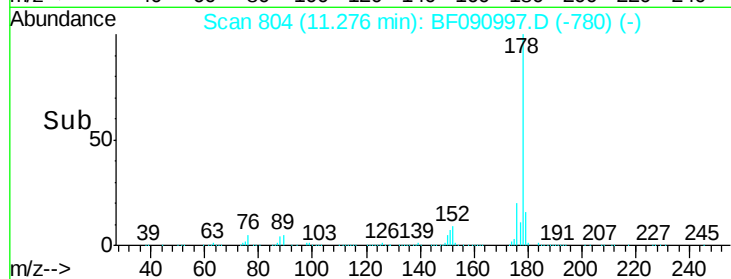
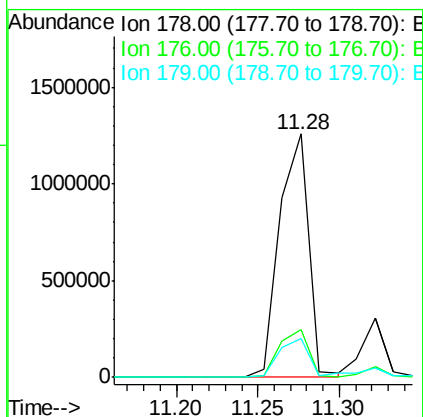
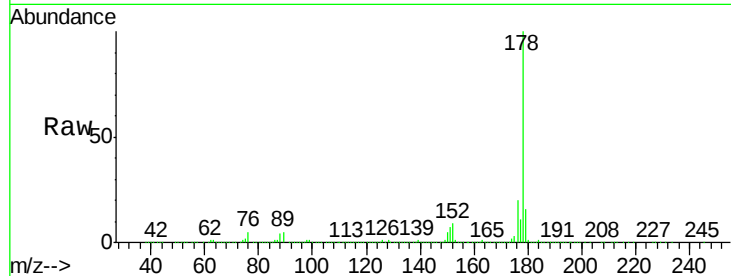
#70
Phenanthrene
Concen: 70.54 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion:178 Resp: 1561307
Ion Ratio Lower Upper
178 100
176 19.8 13.8 20.8
179 15.8 12.2 18.2

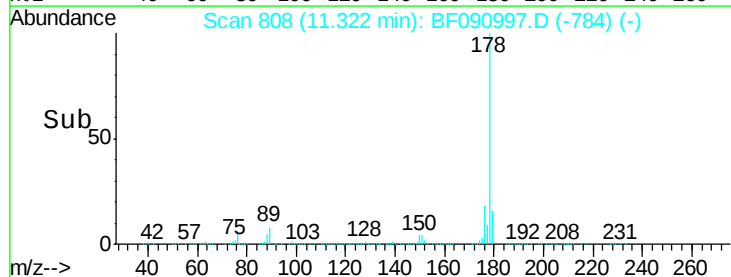
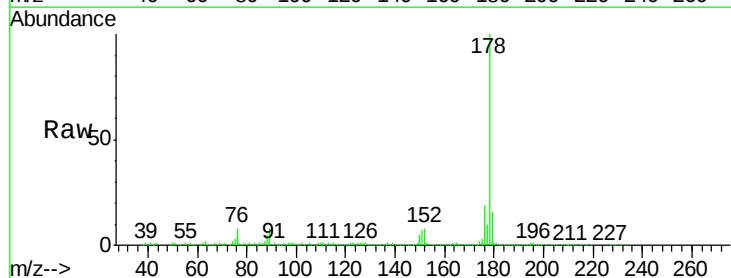
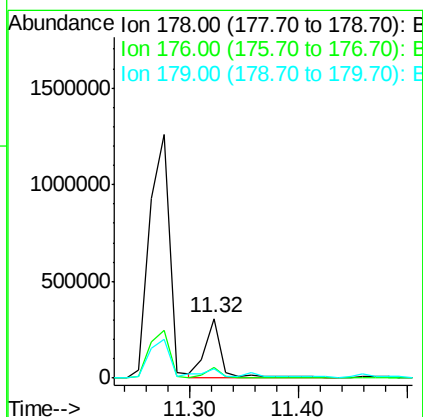
Manual Integrations
APPROVED

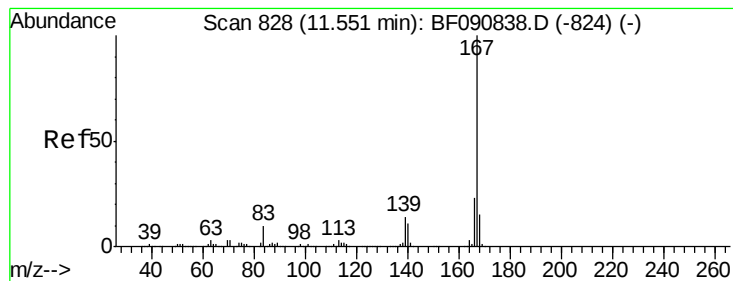
Umangi
11/3/2016 7:14:19 PM



#71
Anthracene
Concen: 14.04 ng
RT: 11.32 min Scan# 808
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion:178 Resp: 327143
Ion Ratio Lower Upper
178 100
176 18.6 14.1 21.1
179 16.0 12.2 18.2





#72

Carbazole

Concen: 4.46 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.02 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

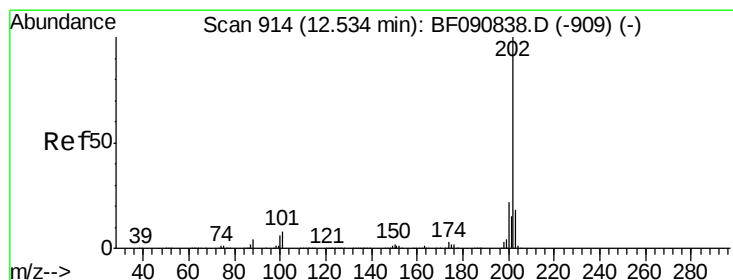
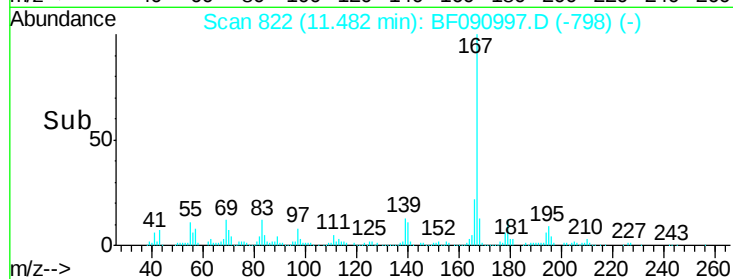
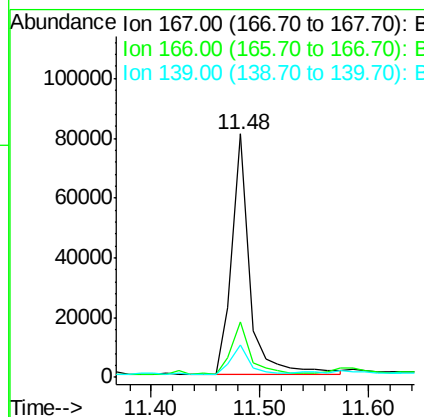
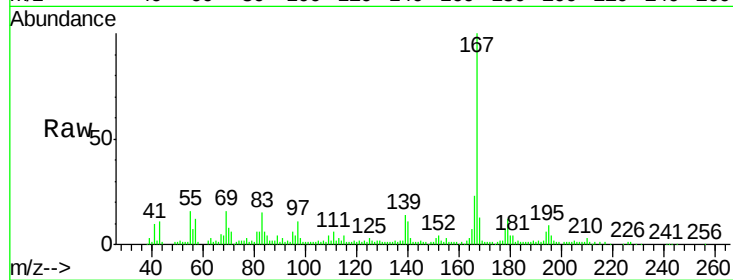
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	167	Resp:	91811
Ion Ratio	Lower	Upper	
167	100		
166	23.0	15.7	23.5
139	13.5	9.5	14.3

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 PM



#74

Fluoranthene

Concen: 69.08 ng

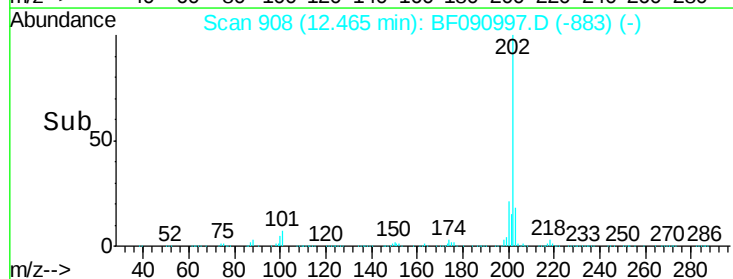
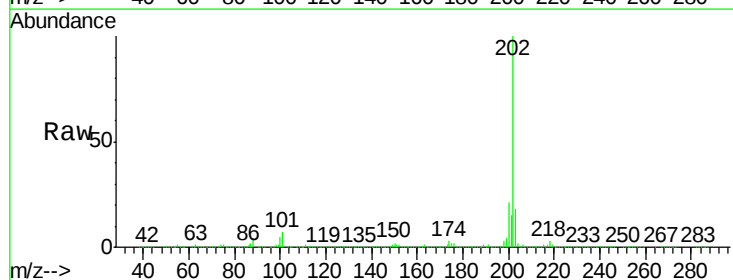
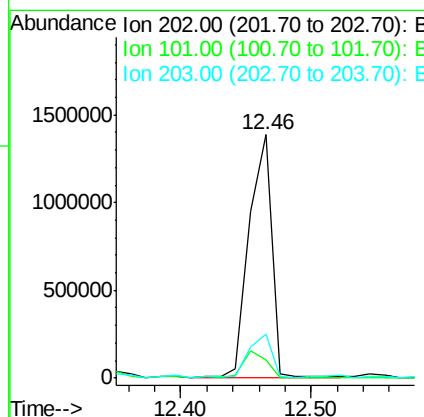
RT: 12.46 min Scan# 908

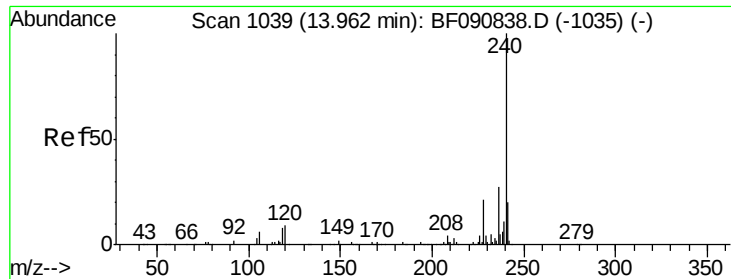
Delta R.T. -0.01 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Tgt Ion:	202	Resp:	1674361
Ion Ratio	Lower	Upper	
202	100		
101	7.4	0.0	38.3
203	18.2	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

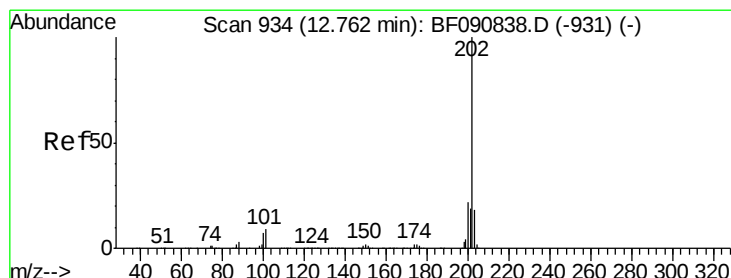
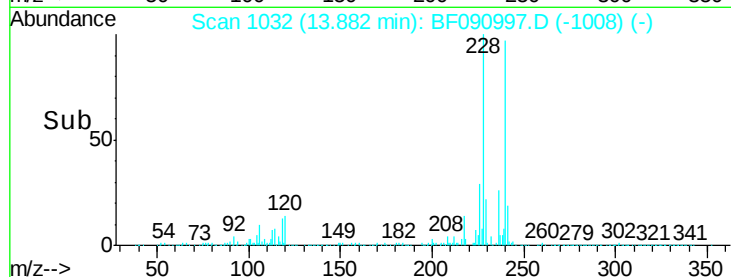
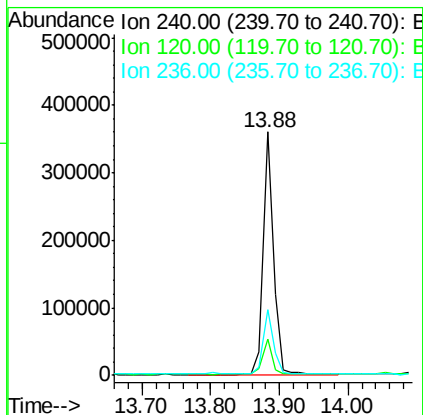
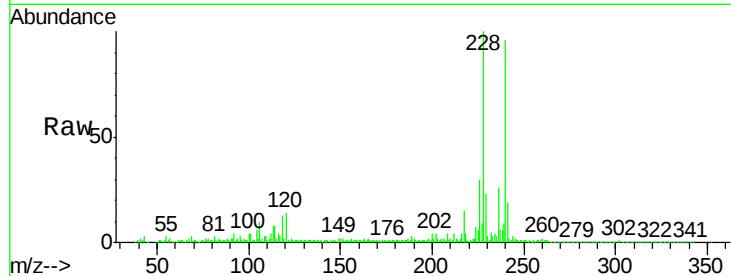
ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion:	240	Resp:	365409
Ion Ratio	Lower	Upper	
240	100		
120	15.0	16.2	24.2#
236	27.1	18.4	27.6

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 PM



#77

Pyrene

Concen: 69.12 ng

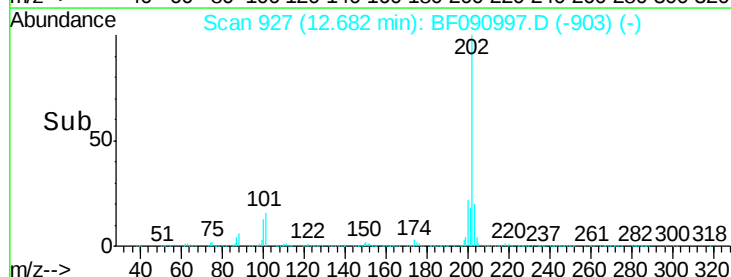
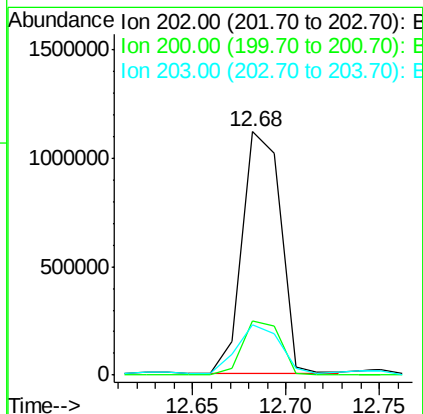
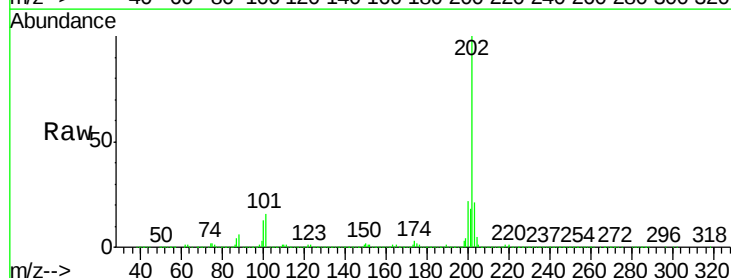
RT: 12.68 min Scan# 927

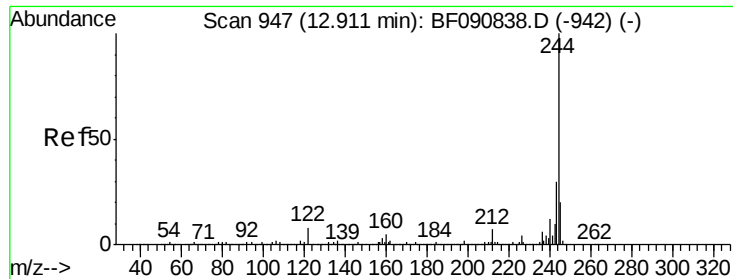
Delta R.T. -0.02 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Tgt Ion:	202	Resp:	1598405
Ion Ratio	Lower	Upper	
202	100		
200	22.3	15.0	22.4
203	20.7	14.1	21.1





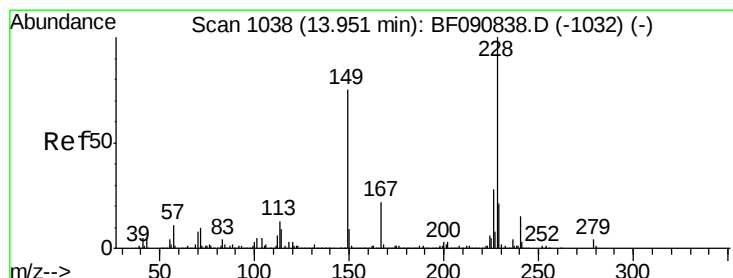
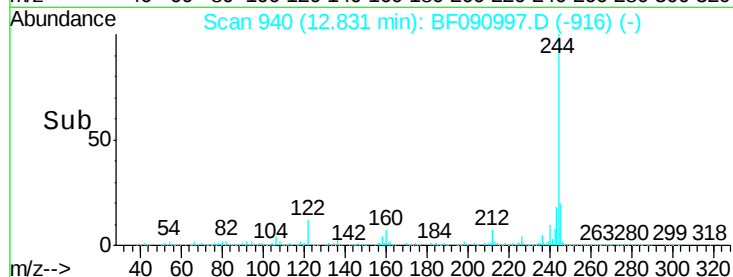
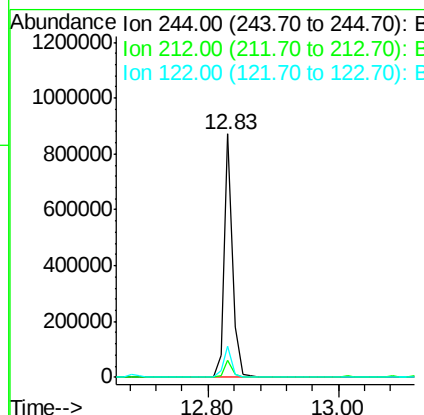
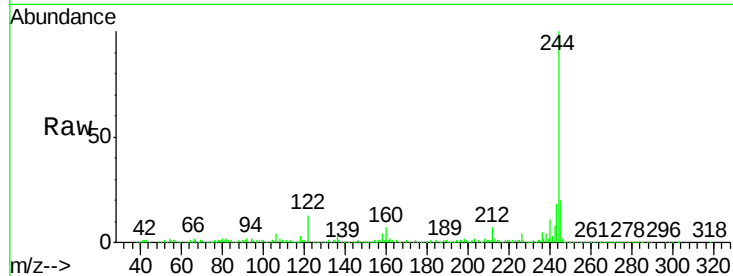
#78
 Terphenyl-d14
 Concen: 54.84 ng
 RT: 12.83 min Scan# 940
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	4.3	6.5#
122	12.6	17.4	26.2#

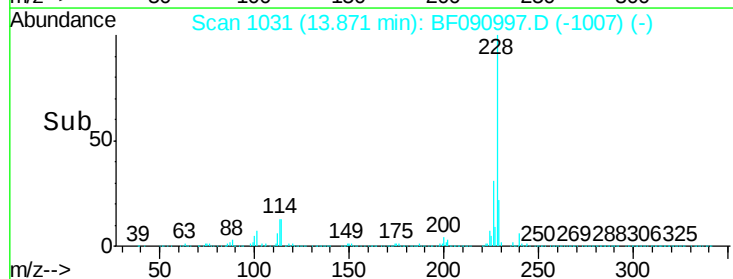
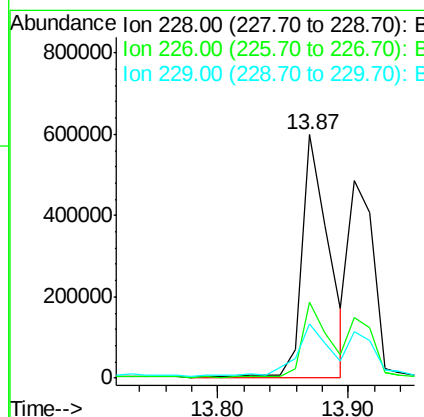
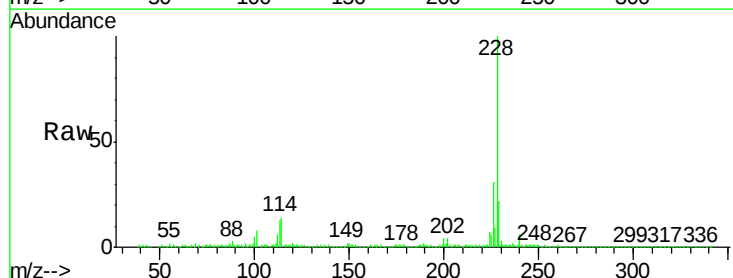
Manual Integrations
 APPROVED

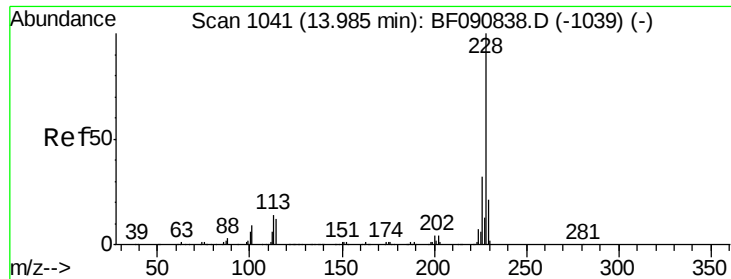
Umangi
 11/3/2016 7:14:19 PM



#80
 Benzo(a)anthracene
 Concen: 43.32 ng
 RT: 13.87 min Scan# 1031
 Delta R.T. -0.02 min
 Lab File: BF090997.D
 Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	20.0	30.0#
229	22.4	15.4	23.2





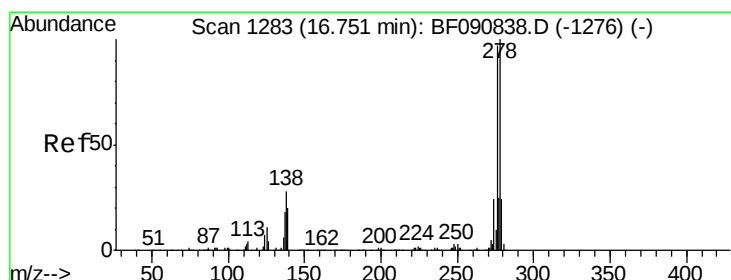
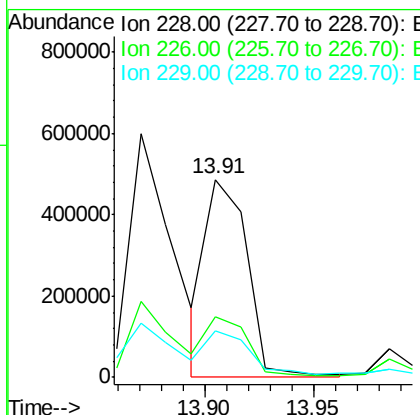
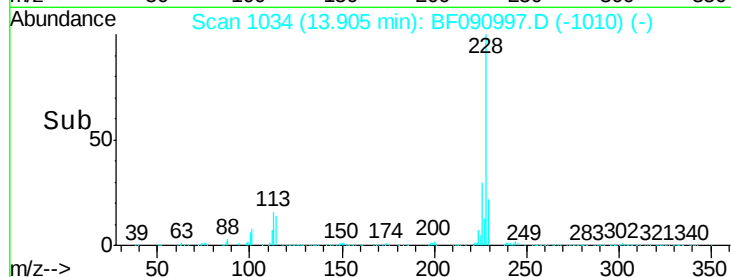
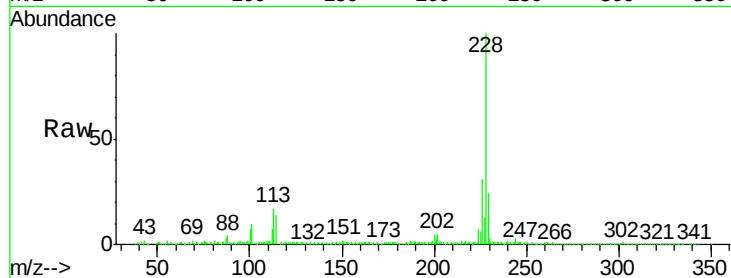
#82
Chrysene
Concen: 33.09 ng m
RT: 13.91 min Scan# 1034
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	21.0	31.4
229	23.6	15.6	23.4

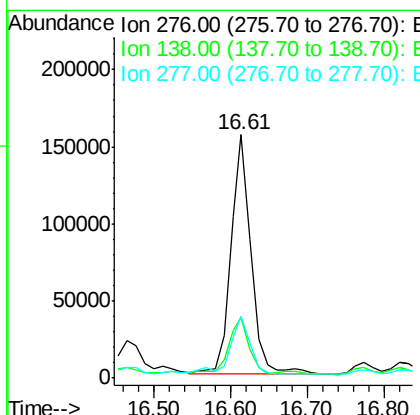
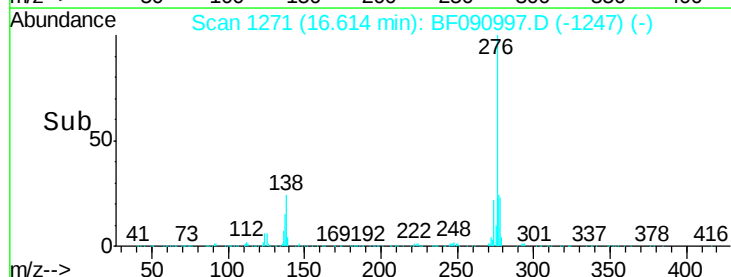
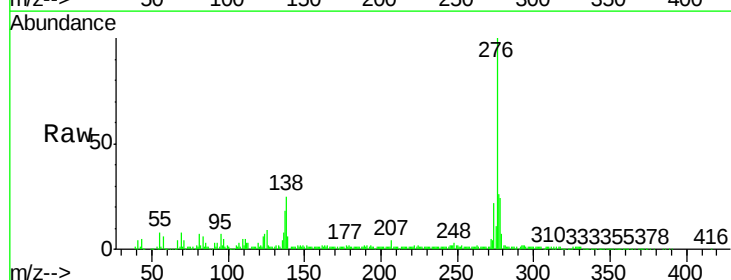
Manual Integrations
APPROVED

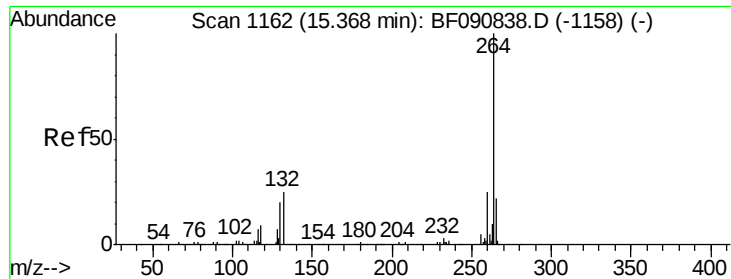
Umangi
11/3/2016 7:14:19 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 16.54 ng
RT: 16.61 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.8	25.7	38.5
277	25.9	15.6	23.4





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1155

Delta R.T. -0.01 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

Instrument :

BNA_F

ClientSampleId :

SB-02-8.5-9.0RE

Tgt Ion: 264 Resp: 313393

Ion Ratio Lower Upper

264 100

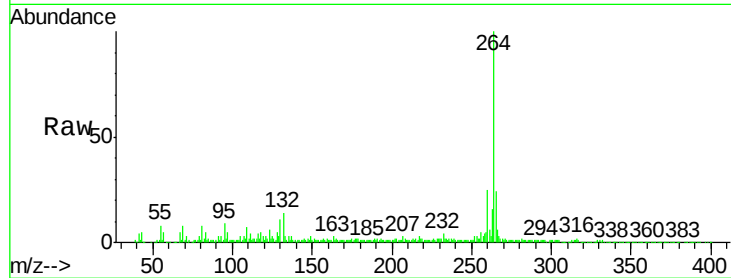
260 24.6 16.7 25.1

265 24.1 17.2 25.8

Manual Integrations
APPROVED

Umangi

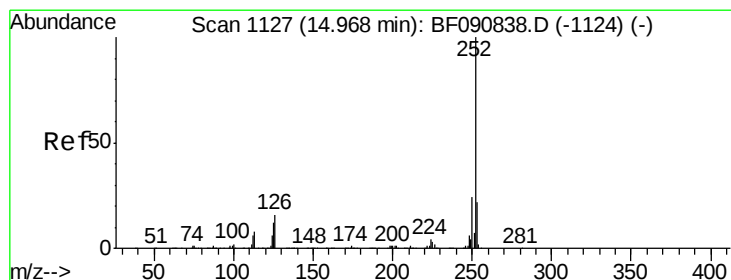
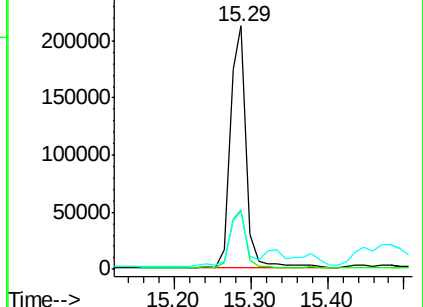
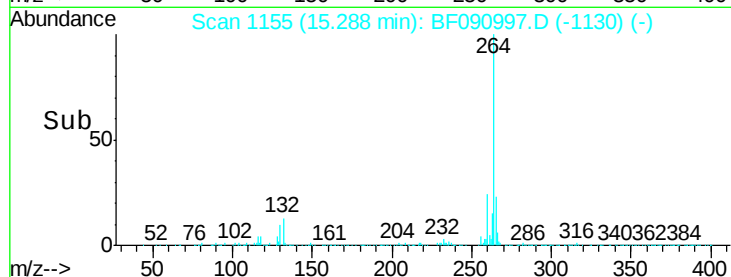
11/3/2016 7:14:19 PM



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 40.86 ng m

RT: 14.90 min Scan# 1121

Delta R.T. -0.01 min

Lab File: BF090997.D

Acq: 2 Nov 2016 23:13

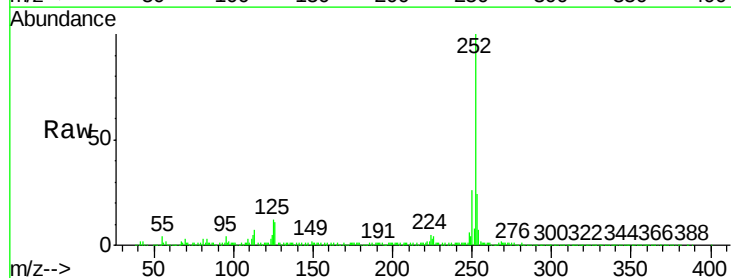
Tgt Ion: 252 Resp: 861154

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

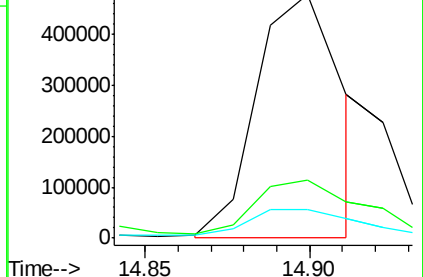
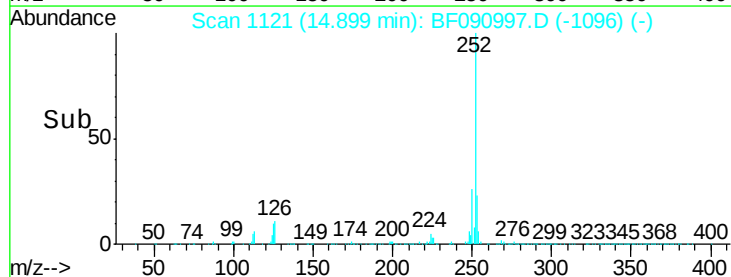
125 11.5 17.1 25.7#

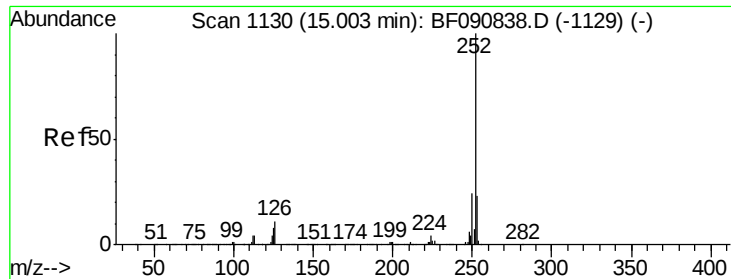


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





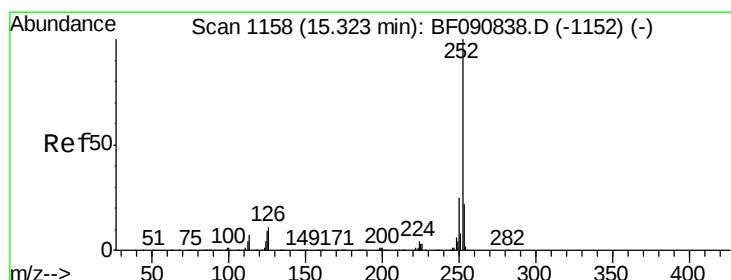
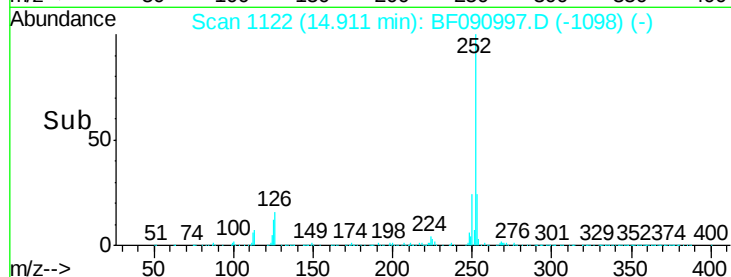
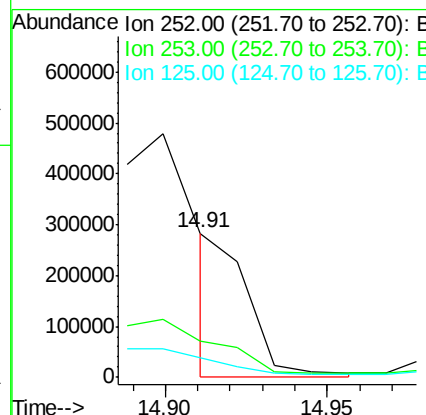
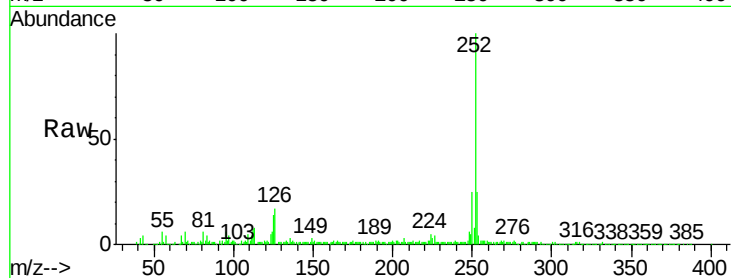
#88
Benzo(k)fluoranthene
Concen: 11.04 ng m
RT: 14.91 min Scan# 1122
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.4
125	13.6	16.0	24.0

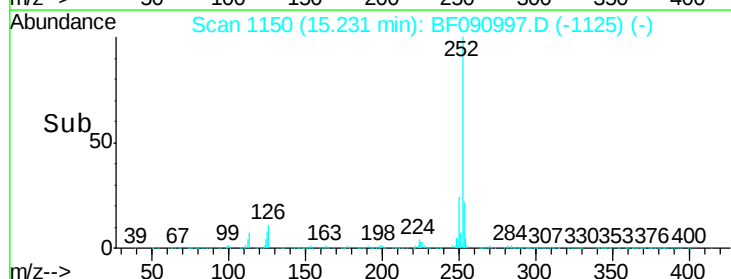
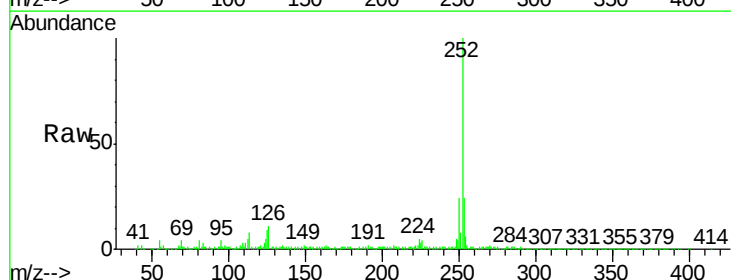
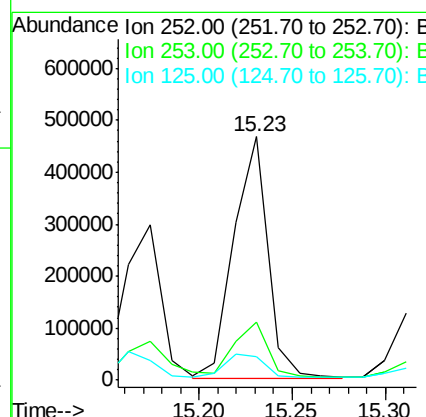
Manual Integrations
APPROVED

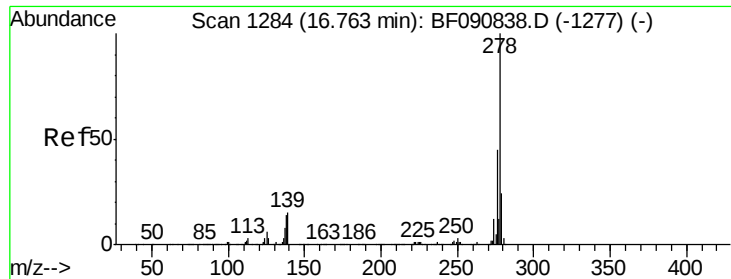
Umangi
11/3/2016 7:14:19 PM



#89
Benzo(a)pyrene
Concen: 33.01 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.2	25.8
125	9.5	18.0	27.0





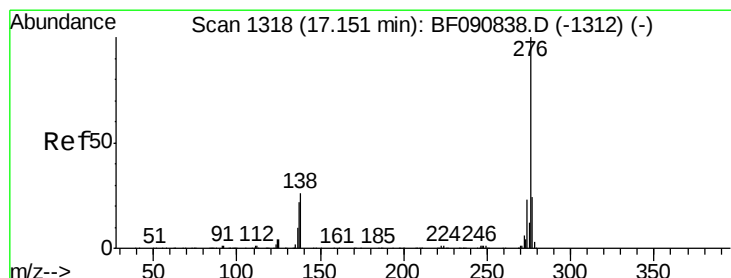
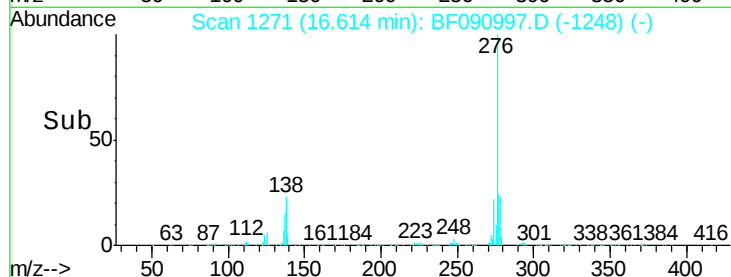
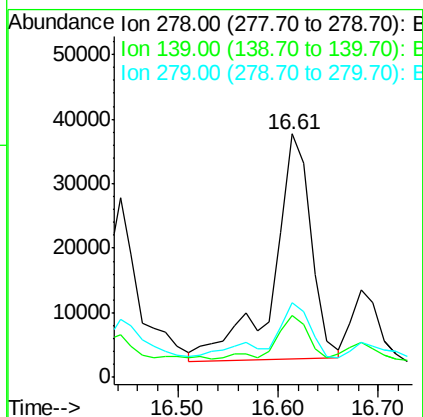
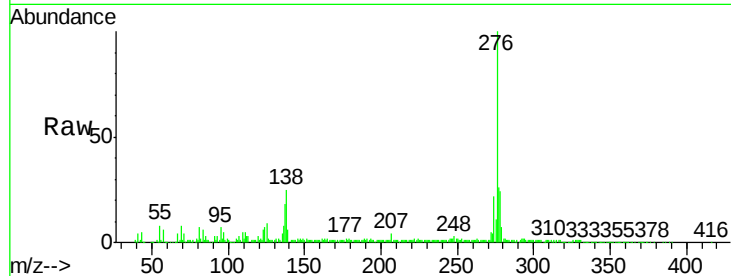
#90
Dibenzo(a,h)anthracene
Concen: 5.95 ng
RT: 16.61 min Scan# 1271
Delta R.T. -0.03 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

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

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.3	26.3	39.5#
279	30.4	18.2	27.4#

Manual Integrations
APPROVED

Umangi
11/3/2016 7:14:19 PM



#91
Benzo(g,h,i)perylene
Concen: 19.37 ng
RT: 17.01 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF090997.D
Acq: 2 Nov 2016 23:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	17.8	26.6
138	26.3	34.6	51.8#

