

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
 Data File : BF090969.D
 Acq On : 1 Nov 2016 23:38
 Operator : UM/SJ
 Sample : H5489-14
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-74-0.5-1.0

Manual Integrations
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Quant Time: Nov 02 02:14:35 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	180300	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	688920	20.00	ng	-0.02
38) Acenaphthene-d10	9.78	164	350221	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	438101	20.00	ng	0.00
75) Chrysene-d12	13.89	240	359856	20.00	ng	-0.01
86) Perylene-d12	15.30	264	297491	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	1730003	167.76	ng	0.01
7) Phenol-d6	6.40	99	2376387	170.81	ng	0.00
23) Nitrobenzene-d5	7.31	82	1497437	142.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	380537	105.73	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1784430	89.47	ng	-0.01
78) Terphenyl-d14	12.84	244	1352851	94.71	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.04	128	316769	9.84	ng	98
37) 2-Methylnaphthalene	8.74	142	61070	2.94	ng	# 90
49) Dimethylphthalate	9.50	163	615565	26.31	ng	# 97
51) Acenaphthene	9.80	154	69376	3.47	ng	86
54) Dibenzofuran	9.98	168	129276	5.01	ng	# 91
57) Fluorene	10.32	166	74926	3.54	ng	# 90
70) Phenanthrene	11.29	178	1516163m	67.96	ng	
71) Anthracene	11.33	178	213313	9.08	ng	97
72) Carbazole	11.49	167	142884	6.89	ng	94
74) Fluoranthene	12.48	202	1371277	56.13	ng	89
77) Pyrene	12.69	202	1042097	45.76	ng	94
80) Benzo(a)anthracene	13.88	228	570549	29.87	ng	94
82) Chrysene	13.92	228	449440	23.27	ng	91
85) Indeno(1,2,3-cd)pyrene	16.63	276	234938m	13.72	ng	
87) Benzo(b)fluoranthene	14.90	252	744516m	37.22	ng	
88) Benzo(k)fluoranthene	14.92	252	121140m	7.66	ng	
89) Benzo(a)pyrene	15.24	252	401123m	23.34	ng	
90) Dibenzo(a,h)anthracene	16.64	278	70122	4.82	ng	# 87
91) Benzo(a,h,i)perylene	17.03	276	211896	15.46	ng	# 85

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

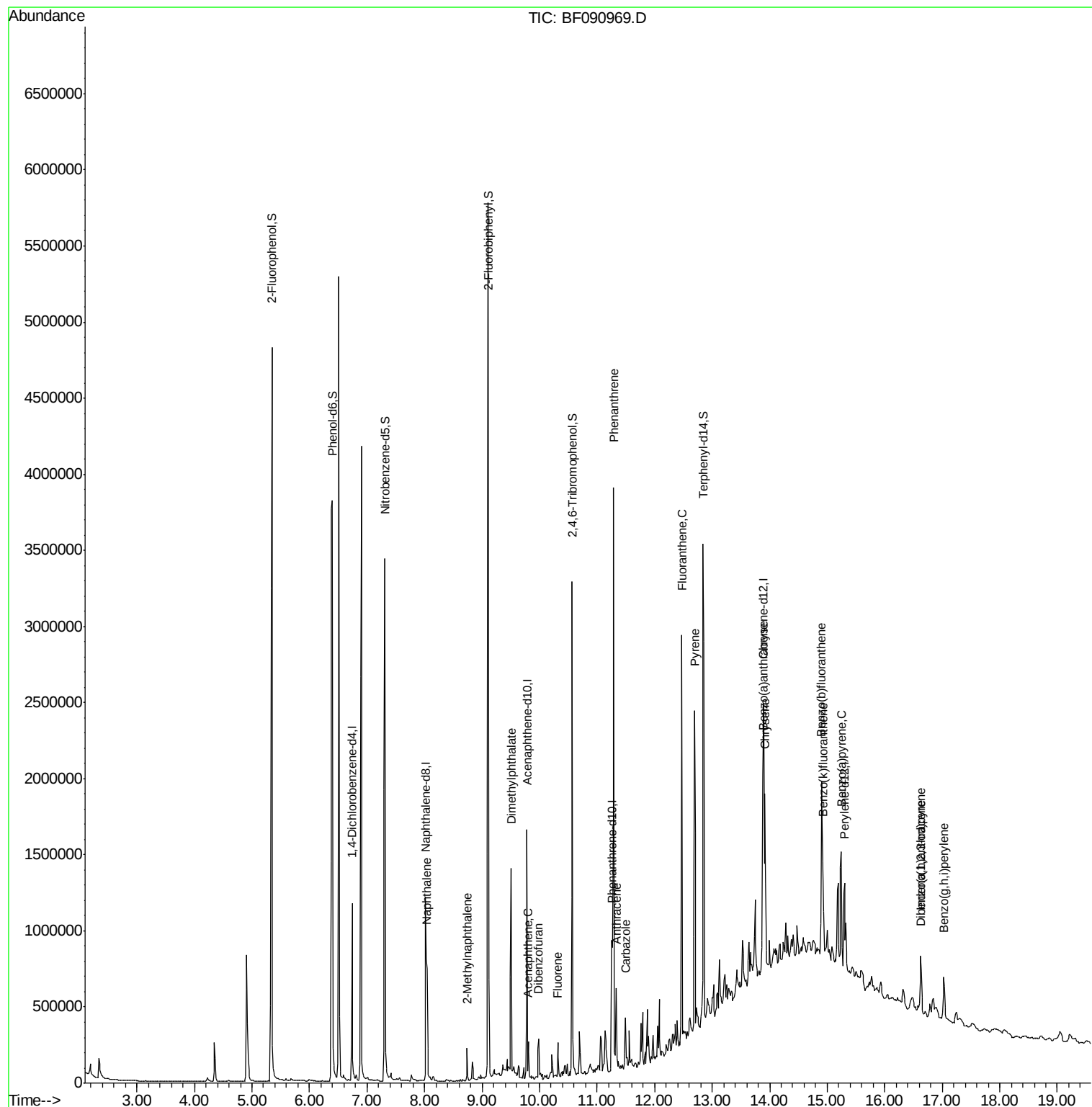
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090969.D
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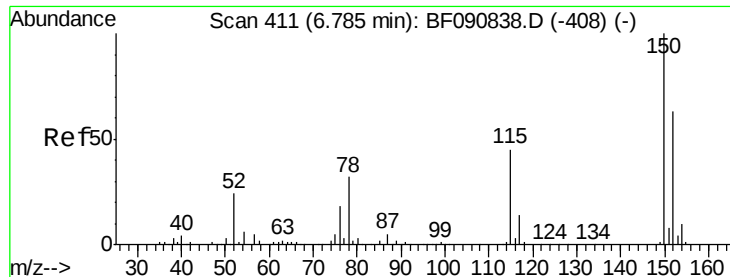
Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

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Quant Time: Nov 02 02:14:35 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: 6.74 min Scan# 407

Delta R.T. -0.01 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Instrument :

BNA_F

ClientSampleId :

SB-74-0.5-1.0

Tot Ion:152 Resp: 180300

Ion Ratio Lower Upper

152 100

150 155.3 124.7 187.1

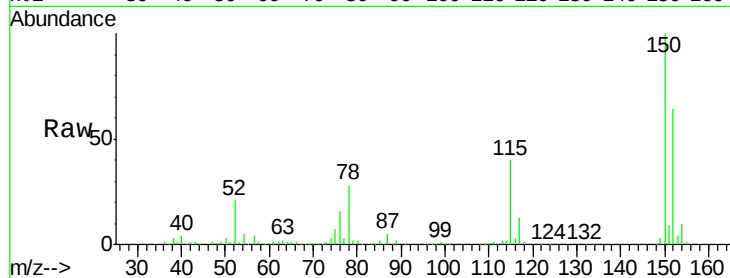
115 62.8 39.0 58.4#

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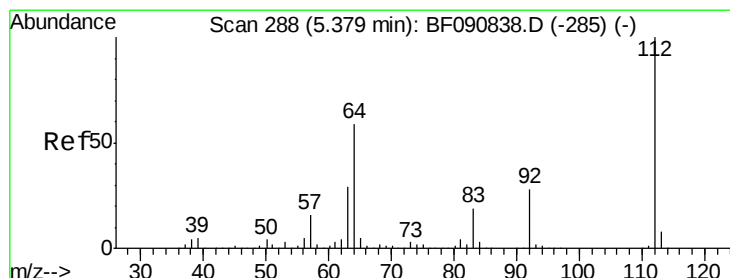
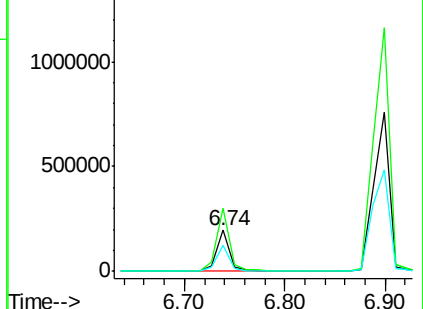
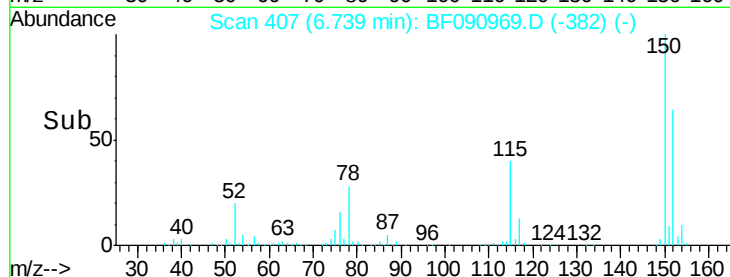
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 167.76 ng

RT: 5.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

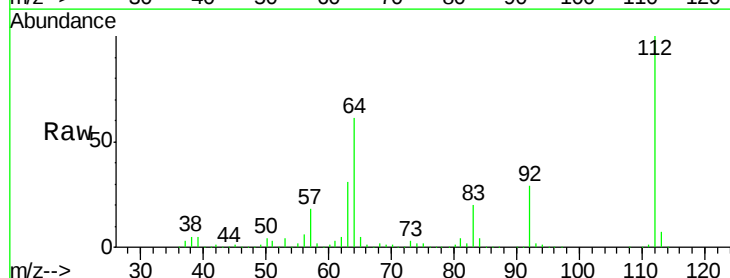
Tgt Ion:112 Resp: 1730003

Ion Ratio Lower Upper

112 100

64 60.7 39.7 59.5#

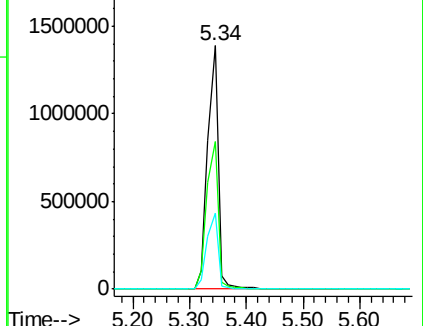
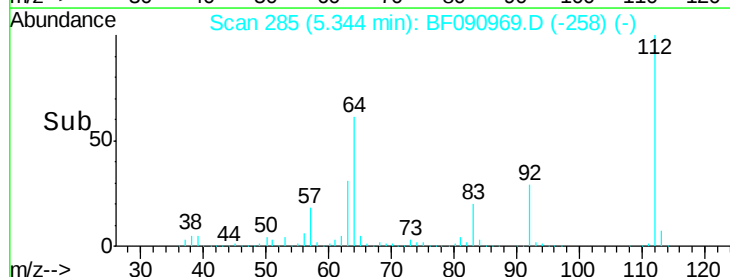
63 31.0 17.4 26.0#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 170.81 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Instrument :

BNA_F

ClientSampleId :

SB-74-0.5-1.0

Tot Ion: 99 Resp: 2376387

Ion Ratio Lower Upper

99 100

42 13.4 13.7 20.5#

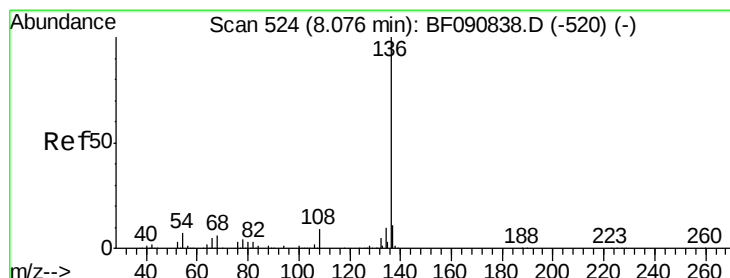
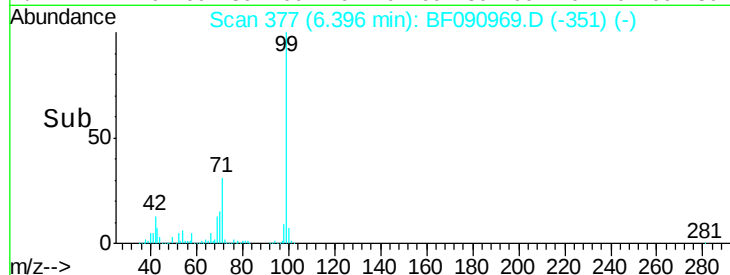
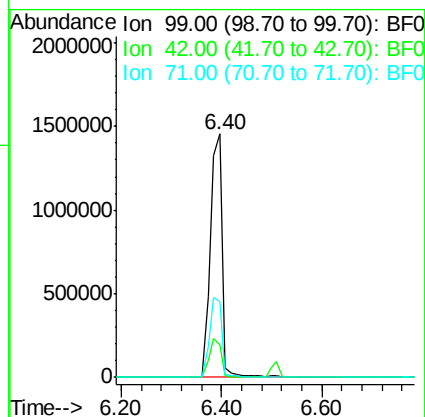
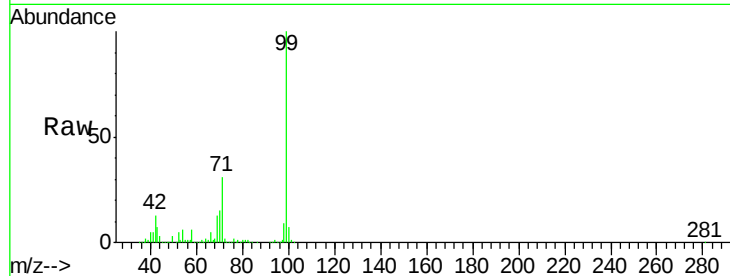
71 31.0 14.2 21.2#

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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: BF090969.D

Acq: 1 Nov 2016 23:38

Tgt Ion: 136 Resp: 688920

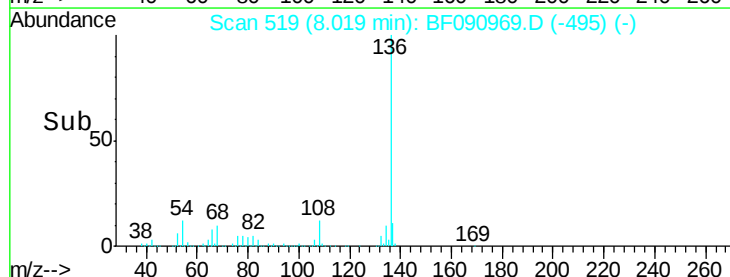
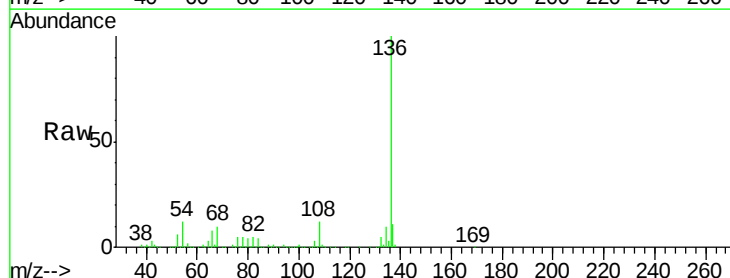
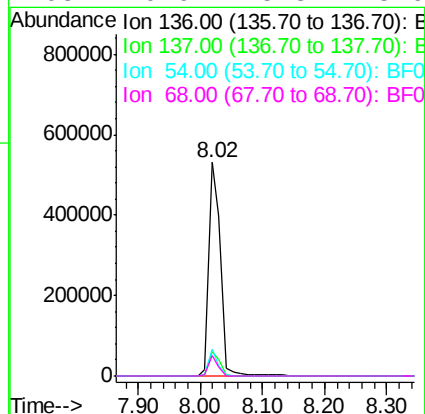
Ion Ratio Lower Upper

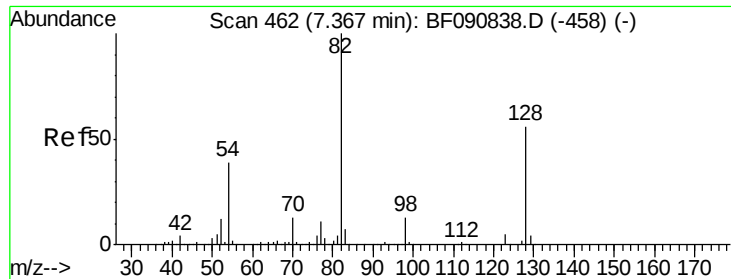
136 100

137 11.4 9.0 13.6

54 12.4 8.2 12.2#

68 9.9 5.8 8.6#





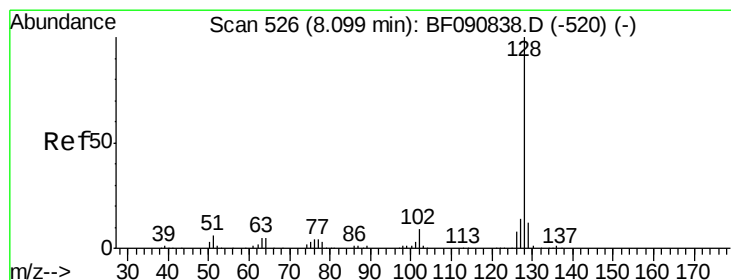
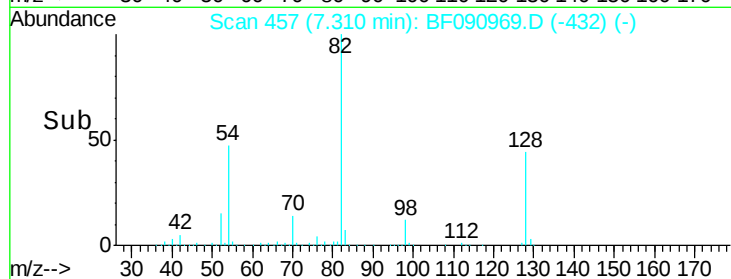
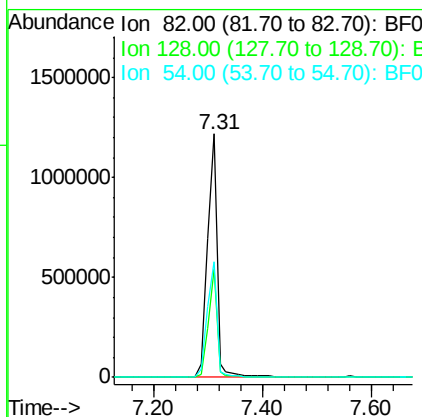
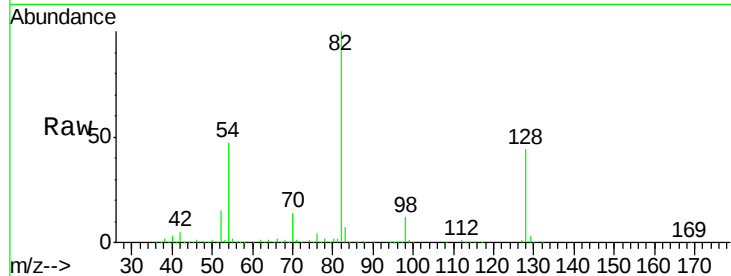
#23
Nitrobenzene-d5
Concen: 142.29 ng
RT: 7.31 min Scan# 457
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion: 82 Resp: 1497437
Ion Ratio Lower Upper
82 100
128 44.4 51.0 76.6#
54 47.5 47.5 71.3#

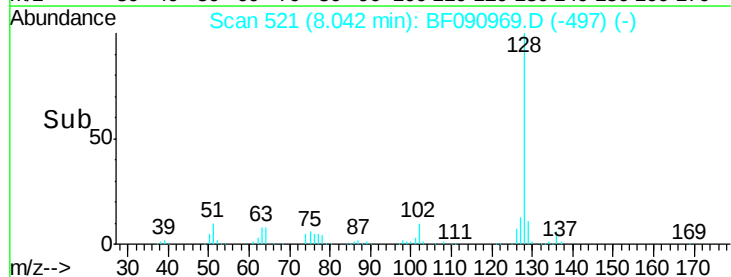
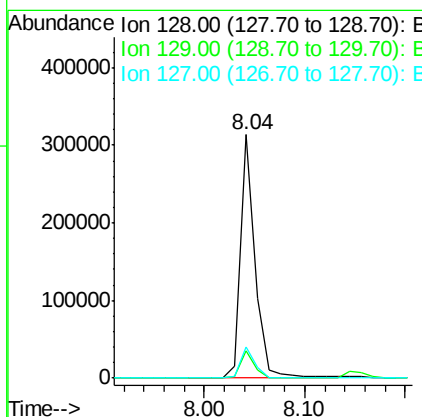
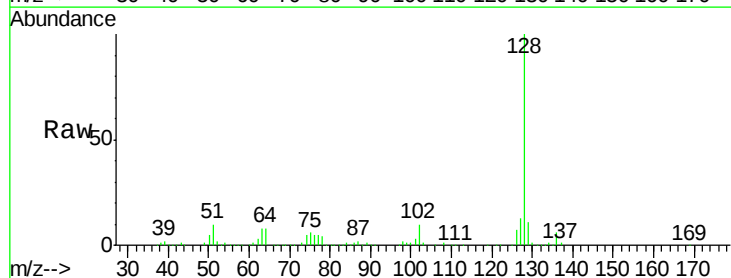
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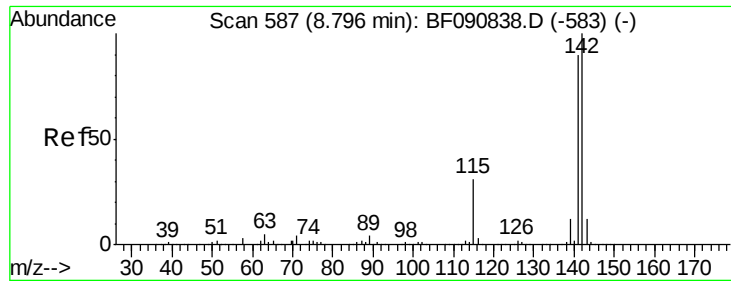
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#31
Naphthalene
Concen: 9.84 ng
RT: 8.04 min Scan# 521
Delta R.T. -0.02 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion: 128 Resp: 316769
Ion Ratio Lower Upper
128 100
129 11.4 8.4 12.6
127 13.0 9.9 14.9





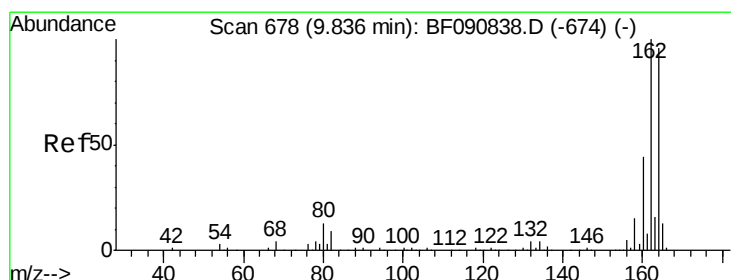
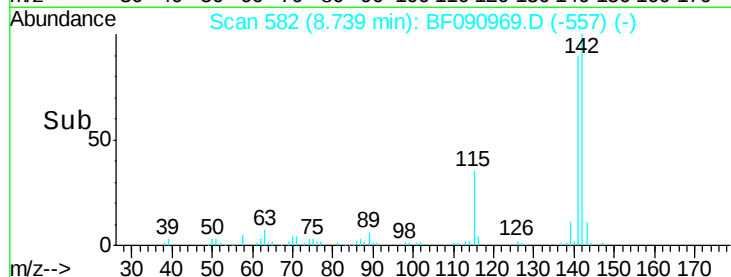
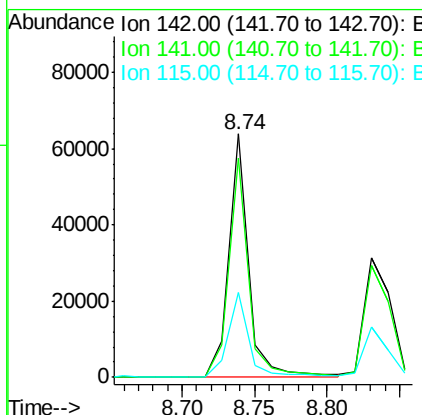
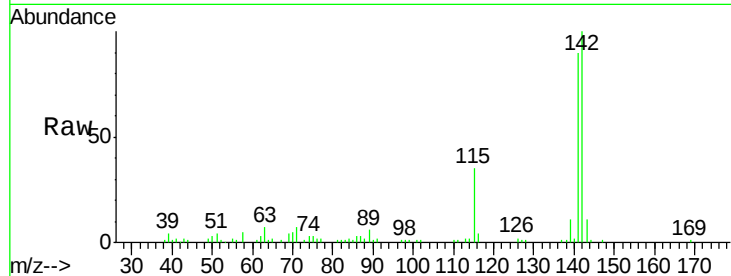
#37
2-Methylnaphthalene
Concen: 2.94 ng
RT: 8.74 min Scan# 582
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	67.5	101.3
115	34.7	18.2	27.2

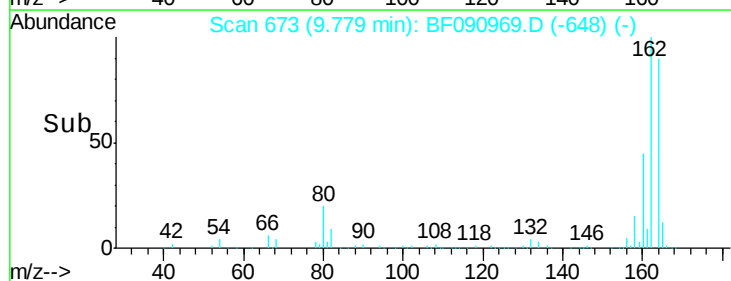
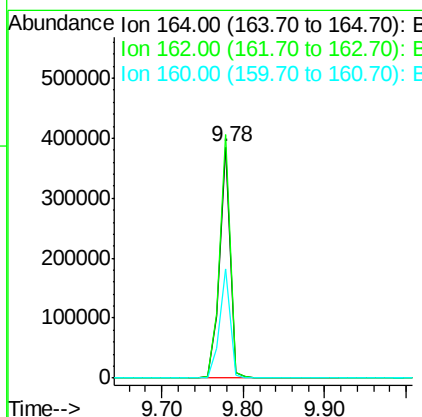
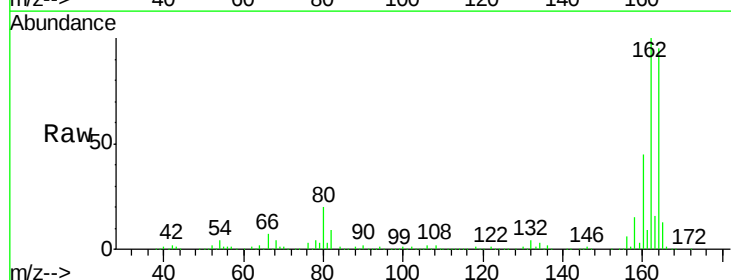
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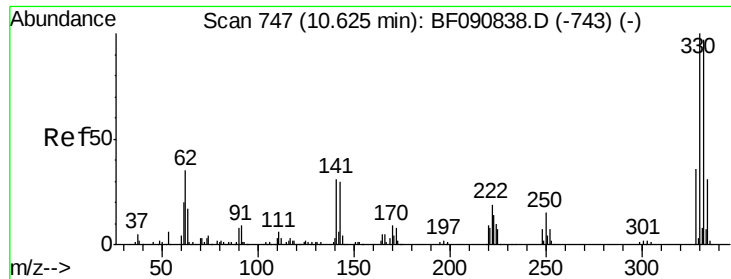
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 673
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	75.2	112.8
160	47.0	31.5	47.3





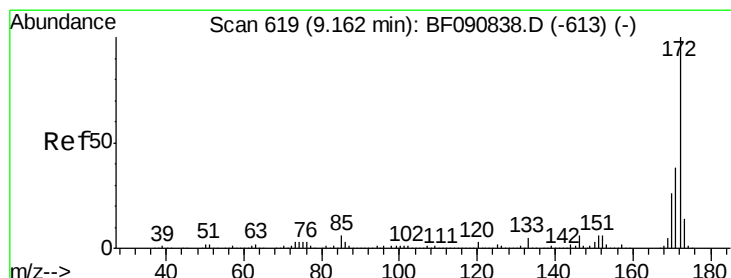
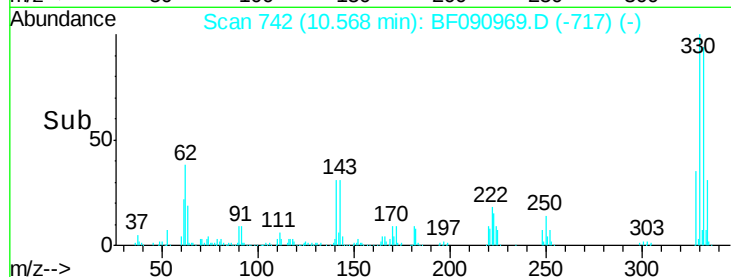
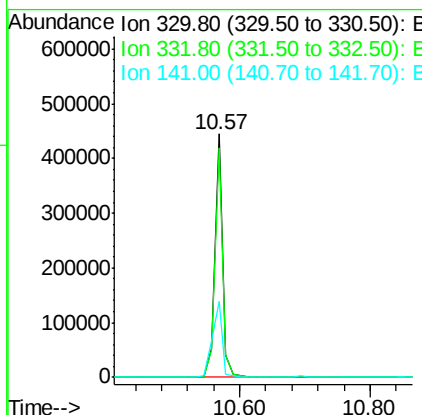
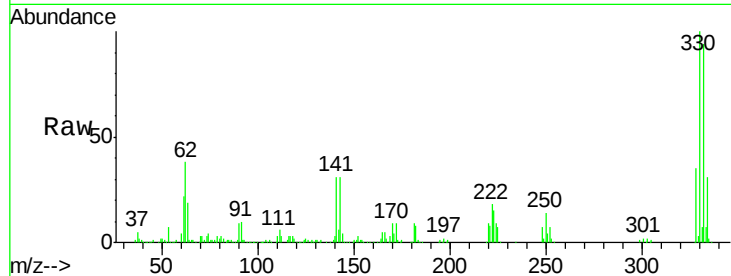
#41
 2,4,6-Tribromophenol
 Concen: 105.73 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.6	114.8
141	39.3	29.7	44.5

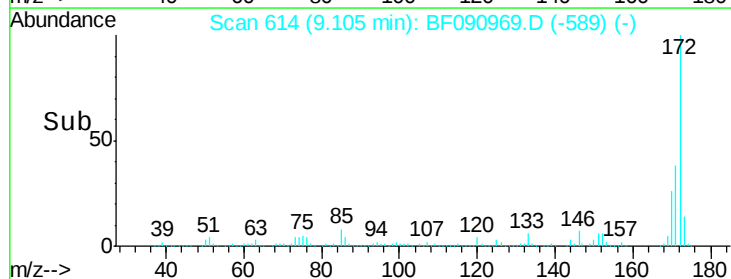
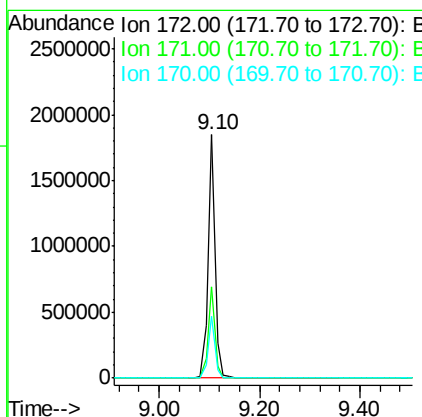
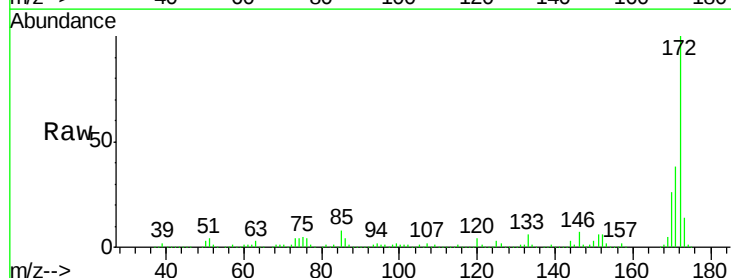
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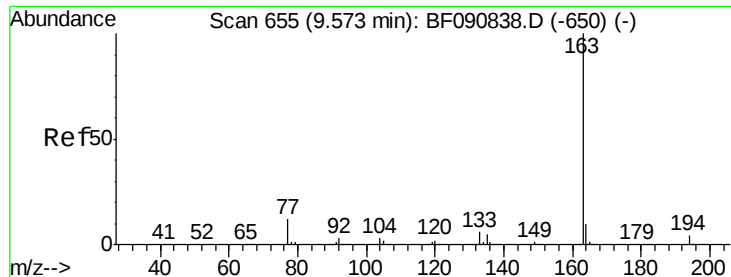
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#44
 2-Fluorobiphenyl
 Concen: 89.47 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.6	26.1	39.1
170	25.6	17.4	26.2





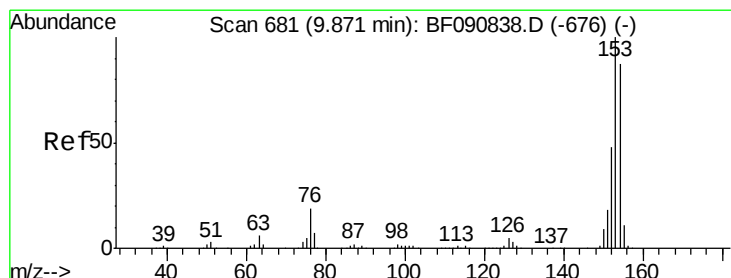
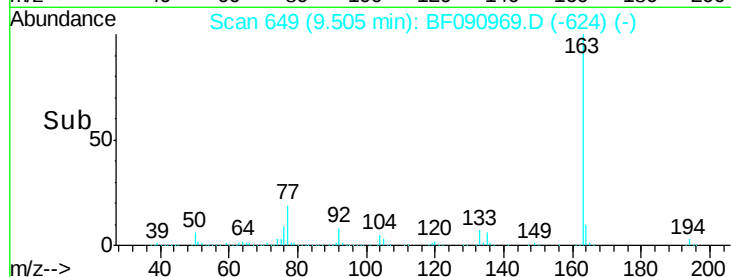
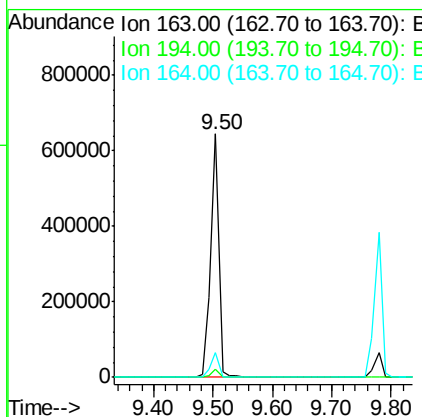
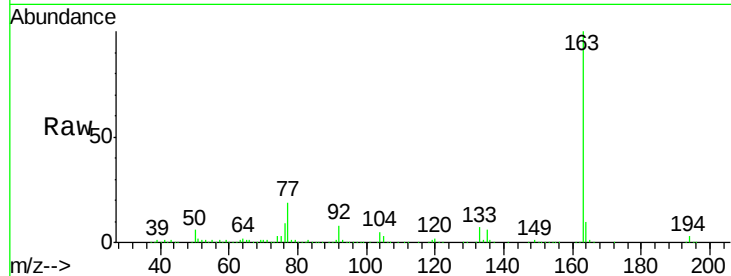
#49
Dimethylphthalate
Concen: 26.31 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Resp	Lower	Upper
163	100	615565		
194	3.5		4.4	6.6#
164	10.1		8.3	12.5

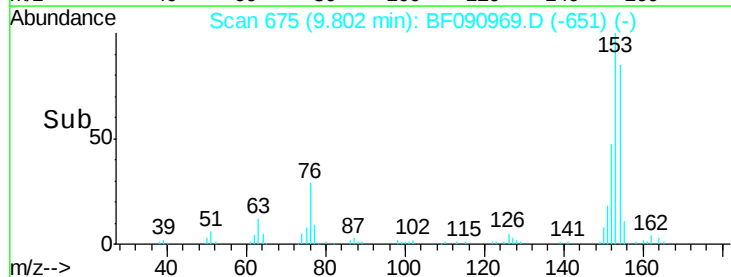
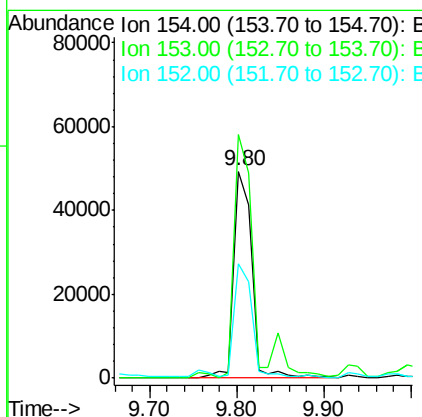
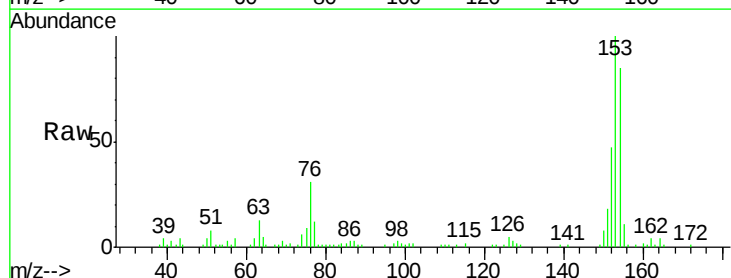
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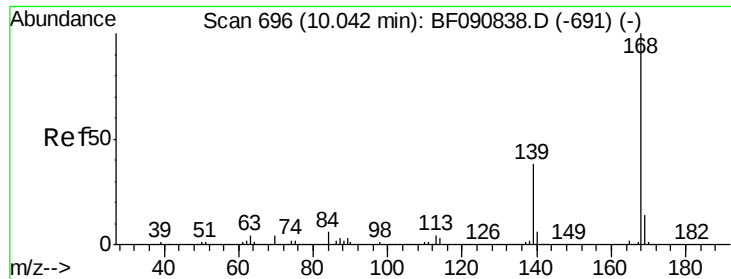
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#51
Acenaphthene
Concen: 3.47 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.02 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	69376		
153	117.7		82.1	123.1
152	55.2		37.9	56.9





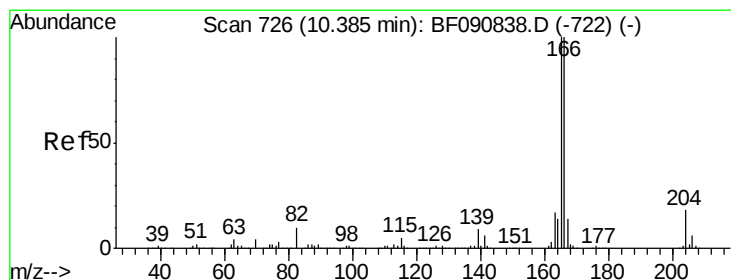
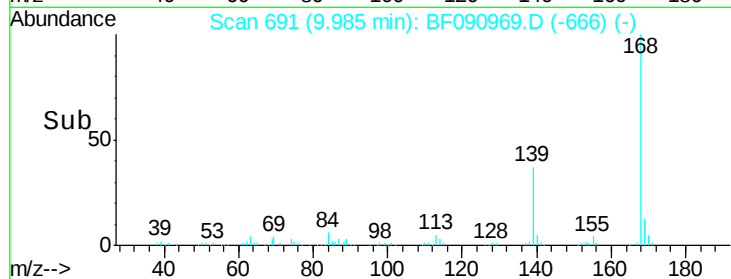
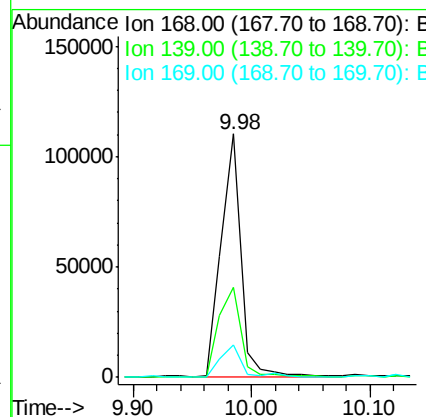
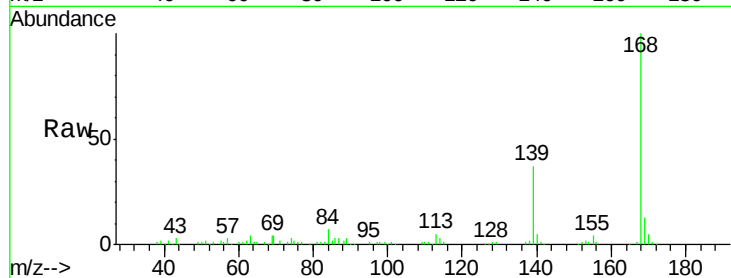
#54
Dibenzofuran
Concen: 5.01 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.1	24.2	36.2#
169	13.2	10.6	15.8

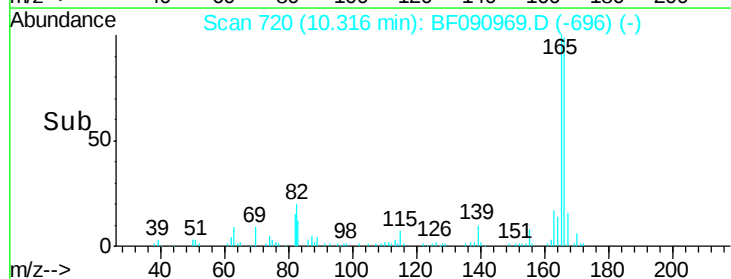
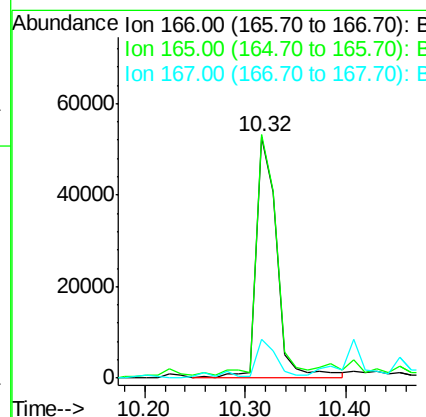
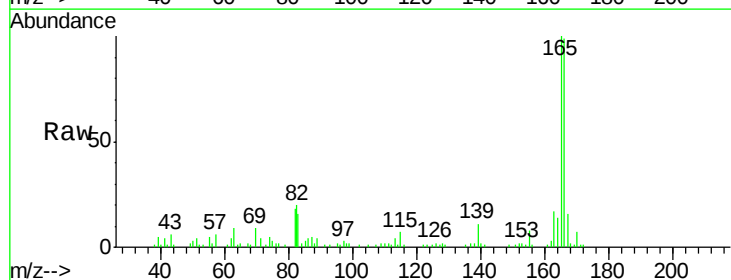
Manual Integrations
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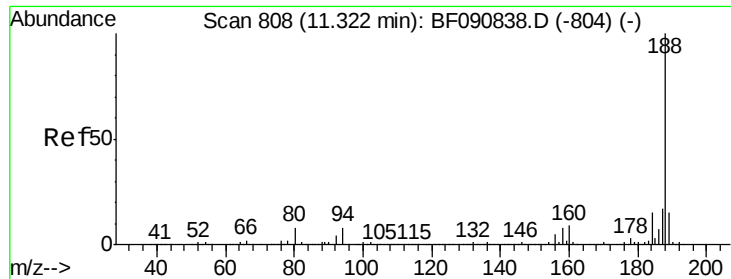
Umangi
11/2/2016 5:42:54 PM



#57
Fluorene
Concen: 3.54 ng
RT: 10.32 min Scan# 720
Delta R.T. -0.02 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.9	72.6	109.0
167	16.0	10.6	16.0#





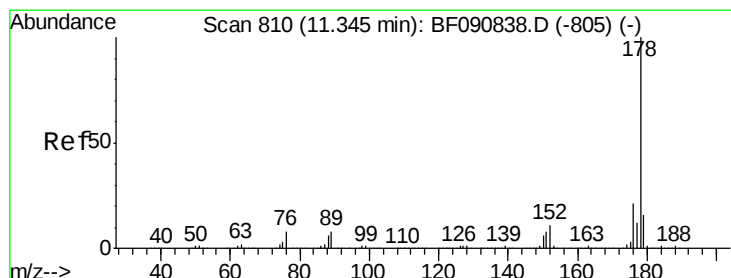
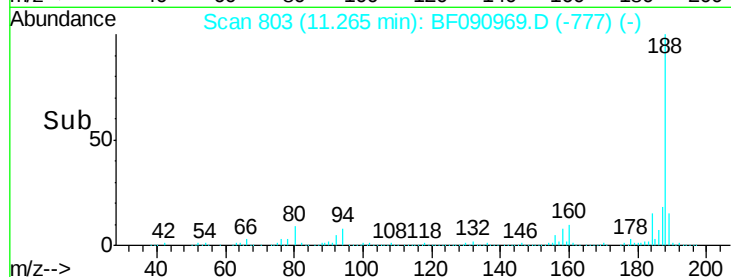
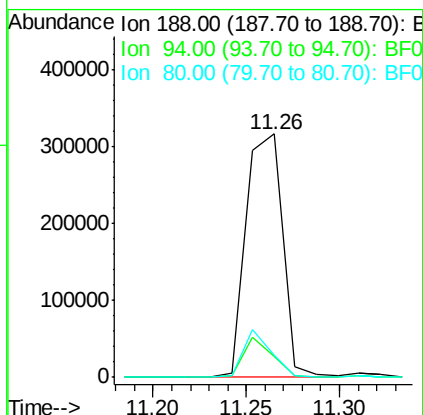
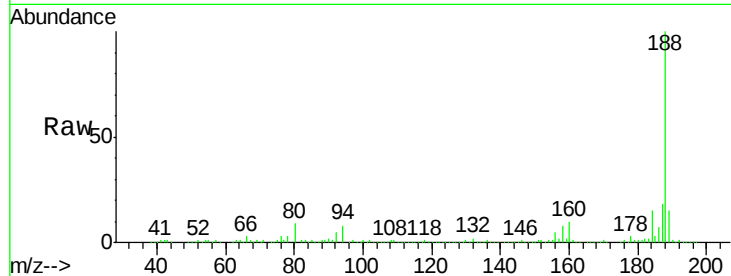
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Resp	Lower	Upper
188	100	438101		
94	8.4	11.1	16.7#	
80	9.2	11.0	16.4#	

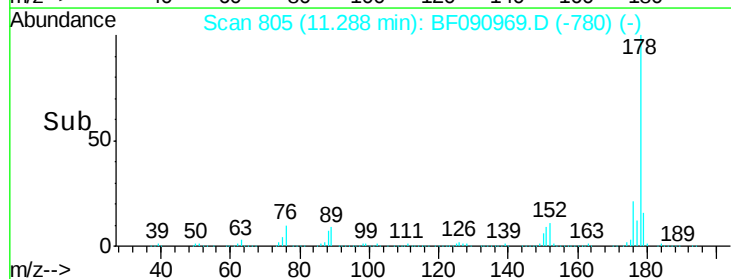
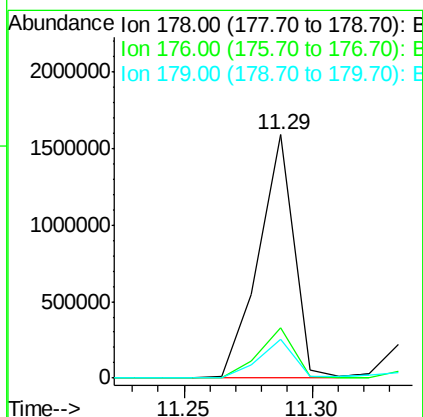
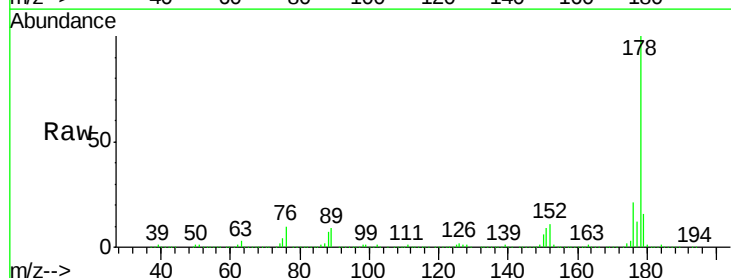
Manual Integrations
APPROVED

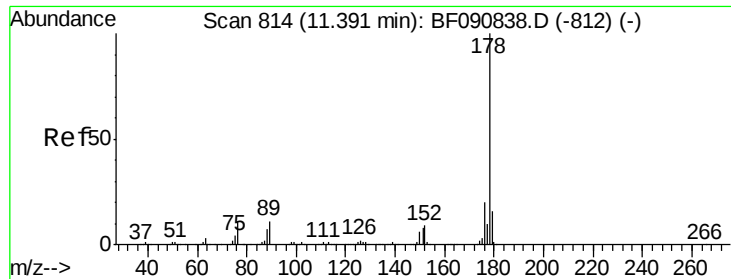
Umangi
11/2/2016 5:42:54 PM



#70
Phenanthrene
Concen: 67.96 ng m
RT: 11.29 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1516163		
176	20.9	13.8	20.8#	
179	16.2	12.2	18.2	





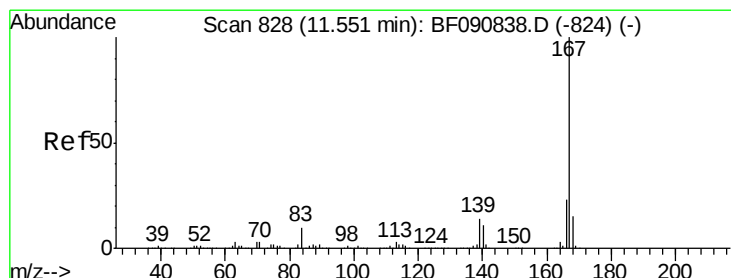
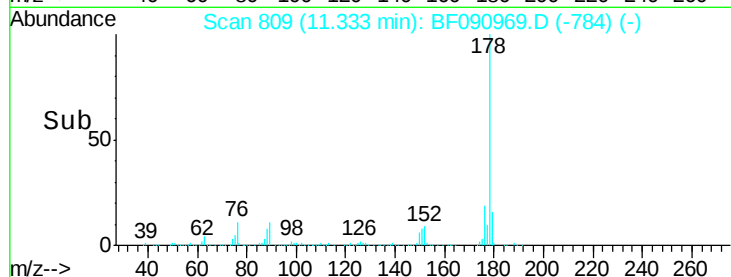
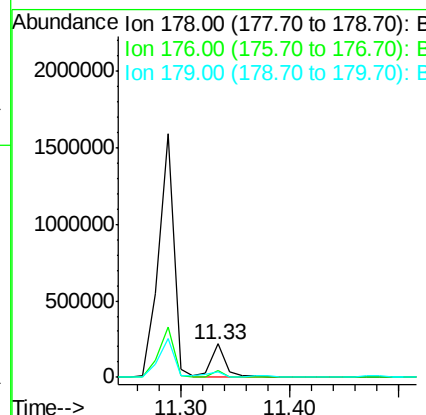
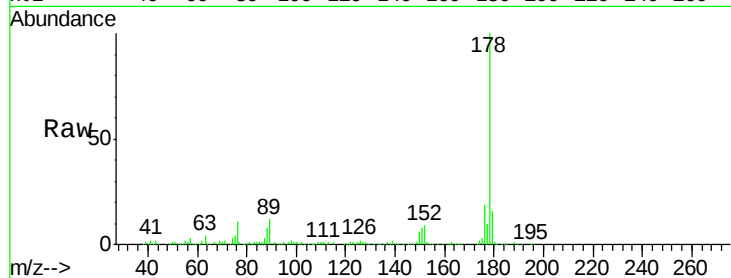
#71
 Anthracene
 Concen: 9.08 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	14.1	21.1
179	15.9	12.2	18.2

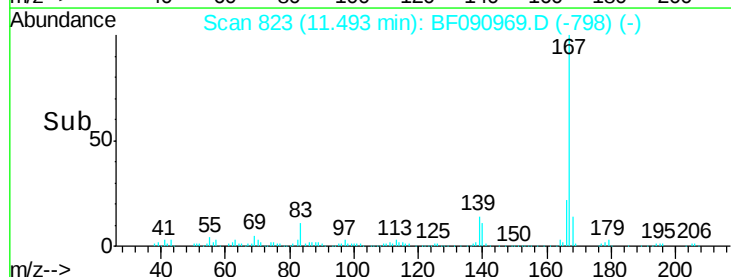
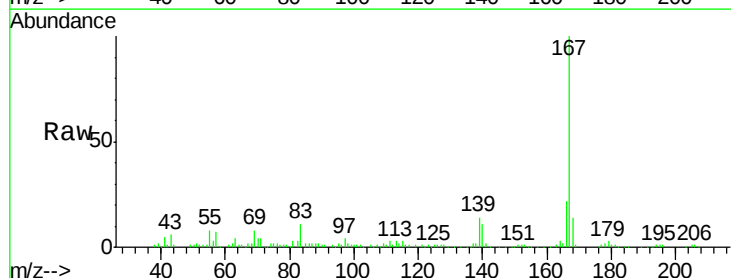
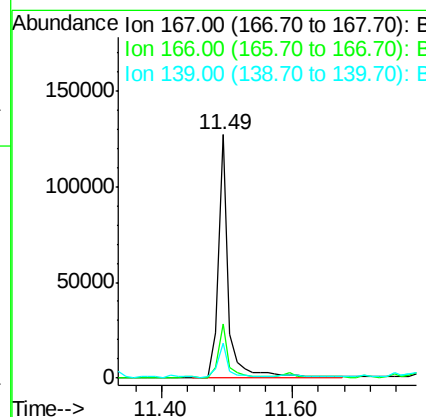
Manual Integrations
 APPROVED

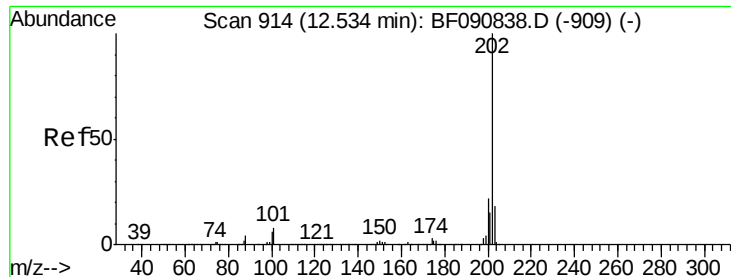
Umangi
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#72
 Carbazole
 Concen: 6.89 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	15.7	23.5
139	14.2	9.5	14.3





#74

Fluoranthene

Concen: 56.13 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.00 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Instrument :

BNA_F

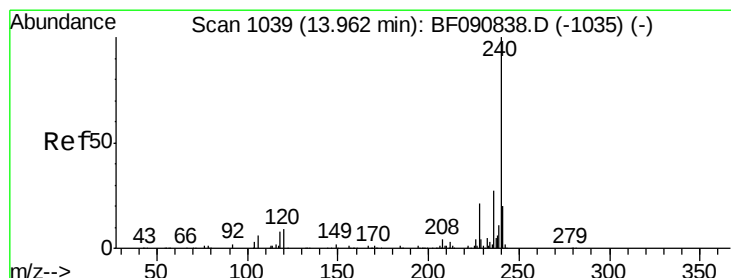
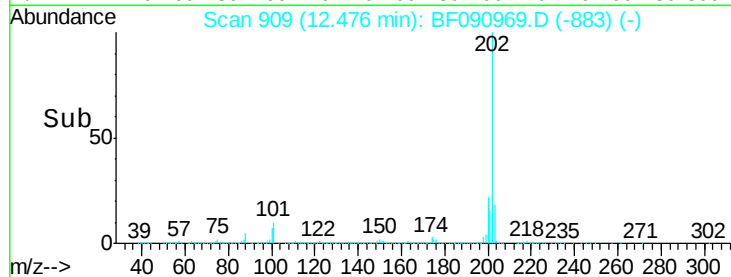
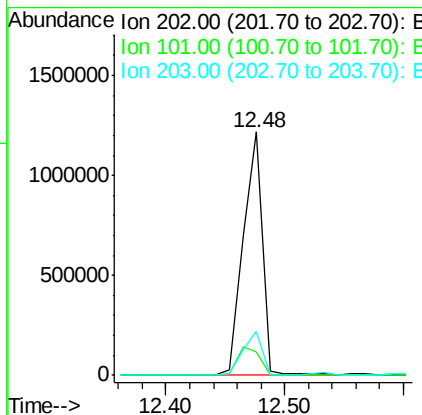
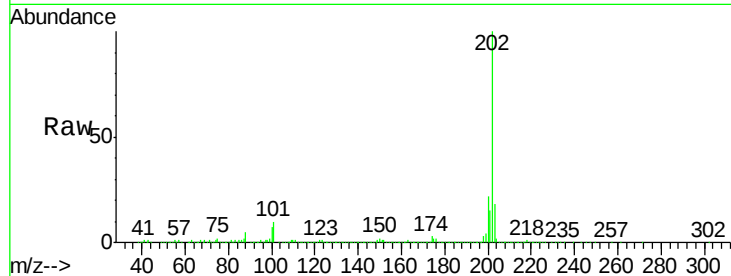
ClientSampleId :

SB-74-0.5-1.0

Tot Ion:	202	Resp:	1371277
Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	38.3
203	18.1	0.0	37.3

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

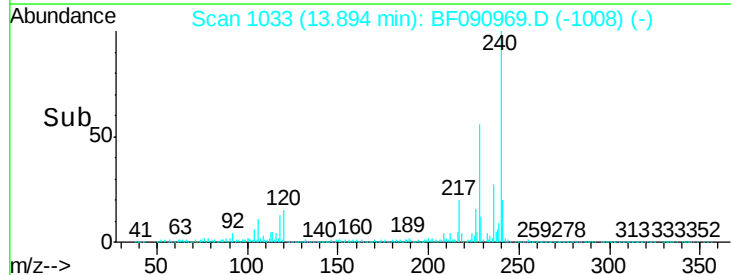
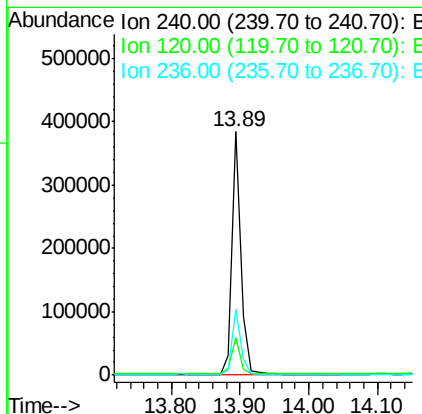
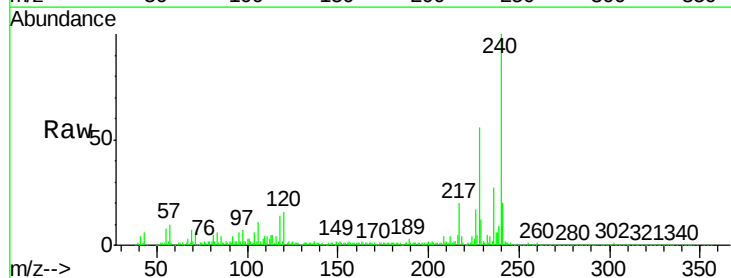
RT: 13.89 min Scan# 1033

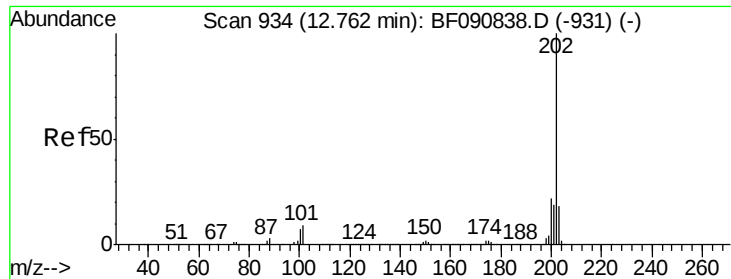
Delta R.T. -0.01 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Tgt Ion:	240	Resp:	359856
Ion	Ratio	Lower	Upper
240	100		
120	15.6	16.2	24.2#
236	27.1	18.4	27.6





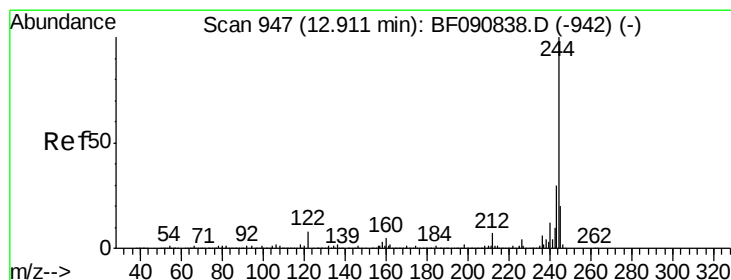
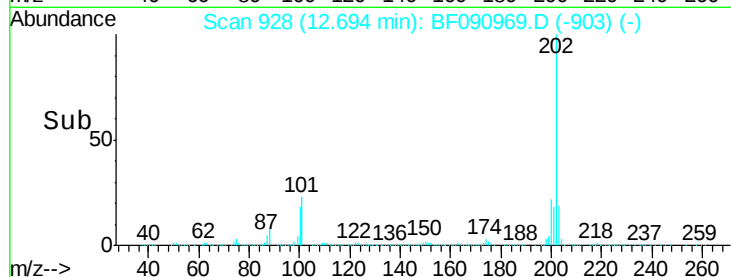
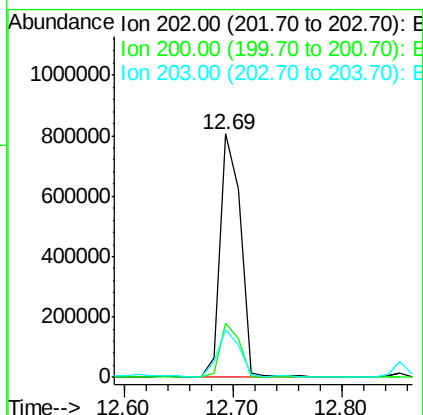
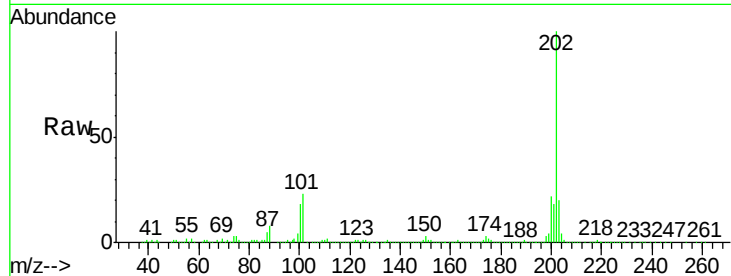
#77
Pvrene
Concen: 45.76 ng
RT: 12.69 min Scan# 928
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	15.0	22.4
203	19.8	14.1	21.1

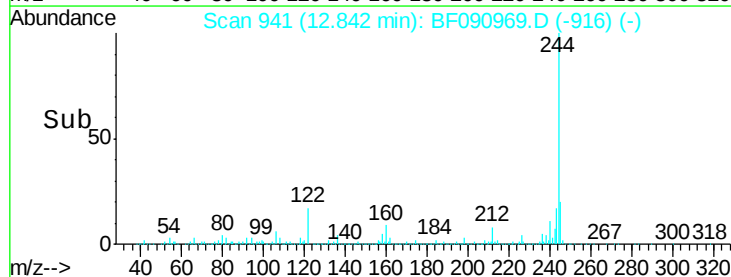
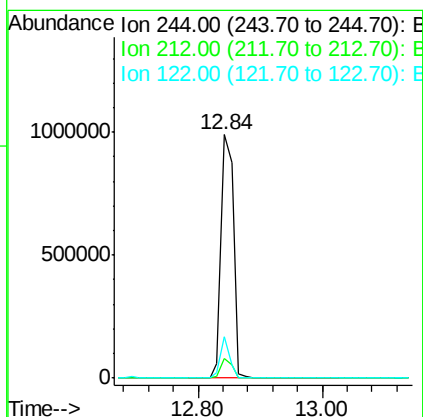
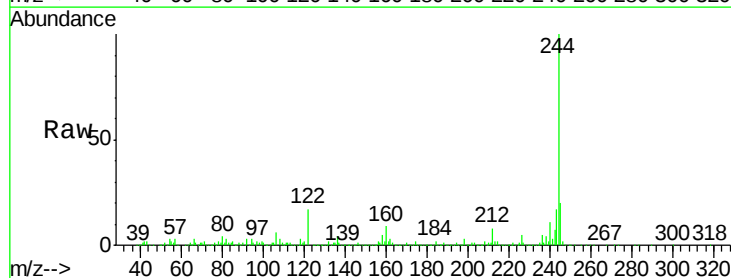
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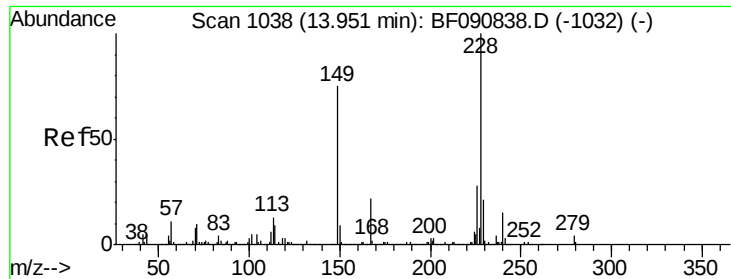
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#78
Terphenyl-d14
Concen: 94.71 ng
RT: 12.84 min Scan# 941
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	4.3	6.5#
122	17.0	17.4	26.2#





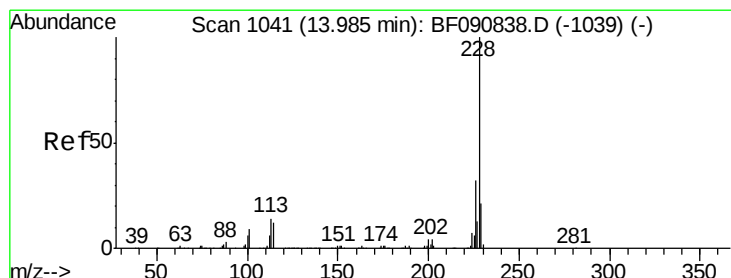
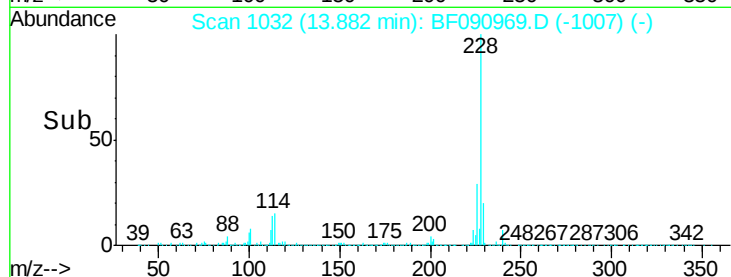
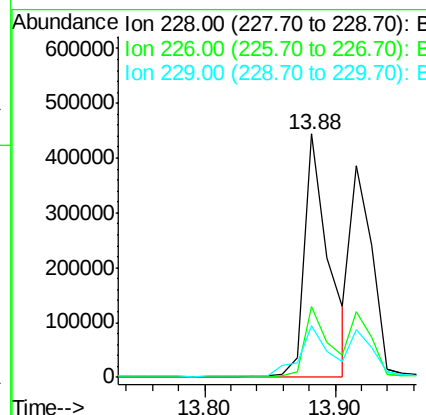
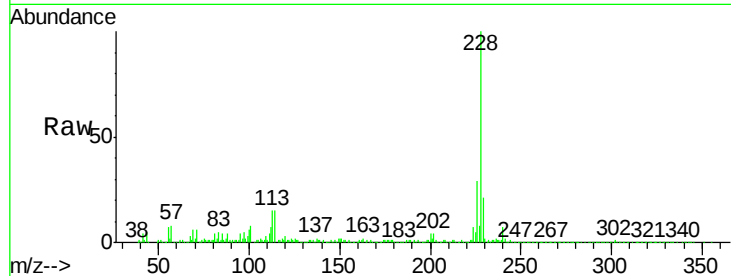
#80
Benzo(a)anthracene
Concen: 29.87 ng
RT: 13.88 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
ClientSampleId :
SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	20.0	30.0
229	21.0	15.4	23.2

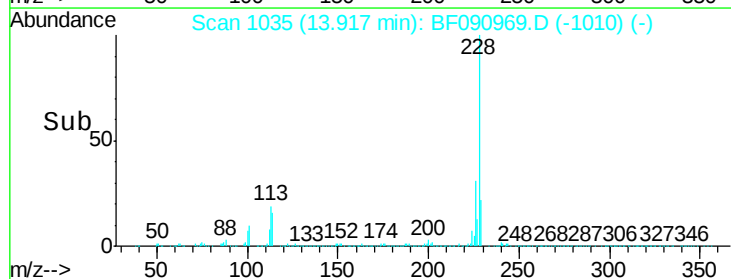
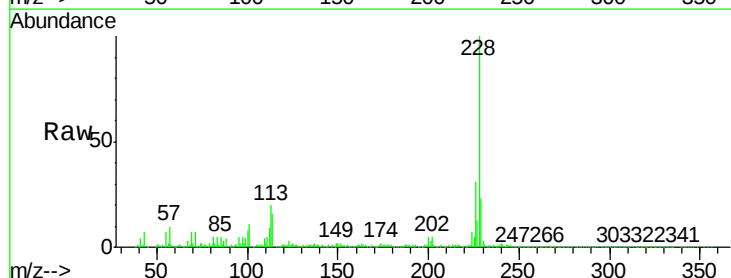
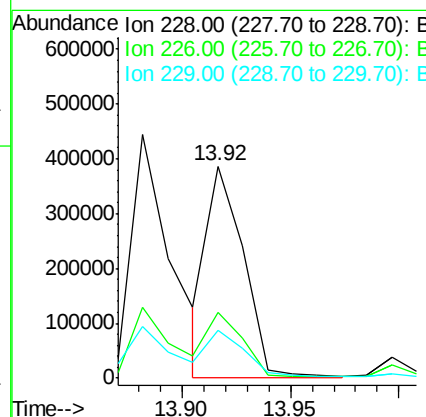
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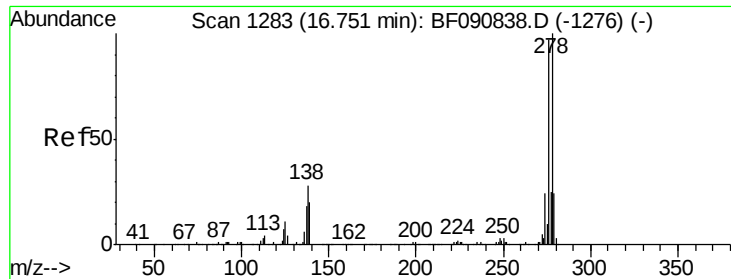
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#82
Chrysene
Concen: 23.27 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	21.0	31.4
229	22.7	15.6	23.4





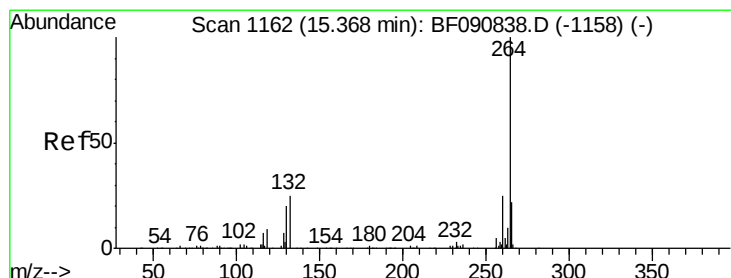
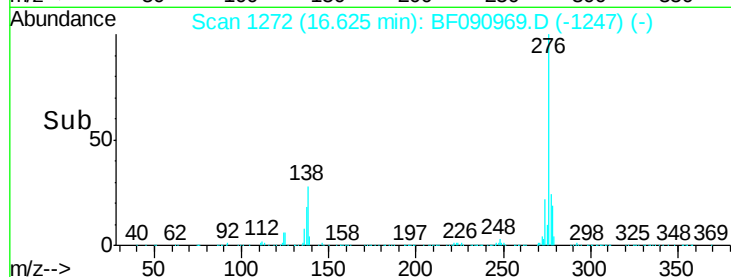
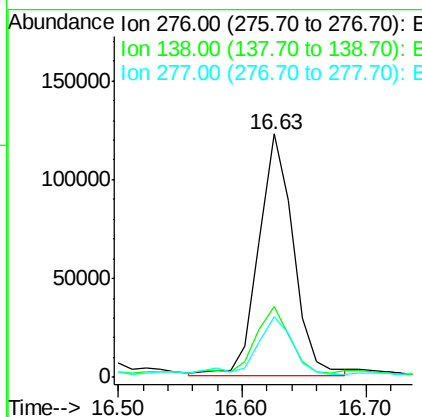
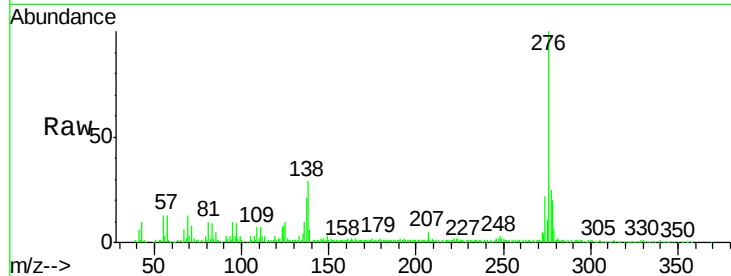
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.72 ng/mL
 RT: 16.63 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
276	100		
138	5.2	25.7	38.5#
277	4.2	15.6	23.4#

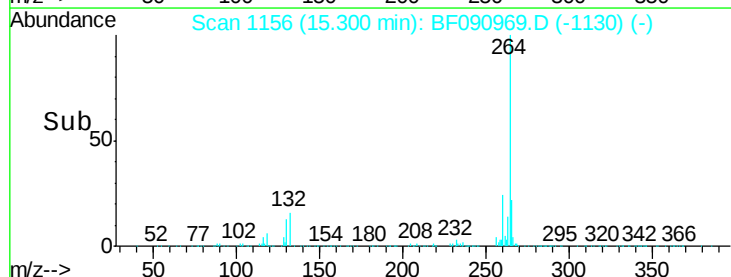
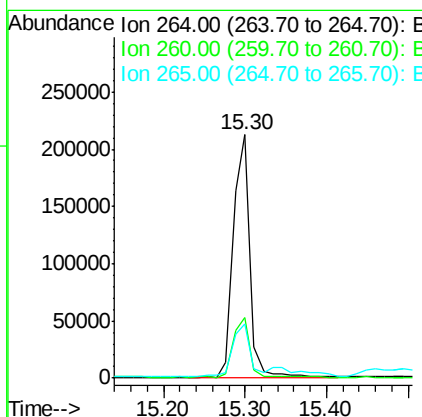
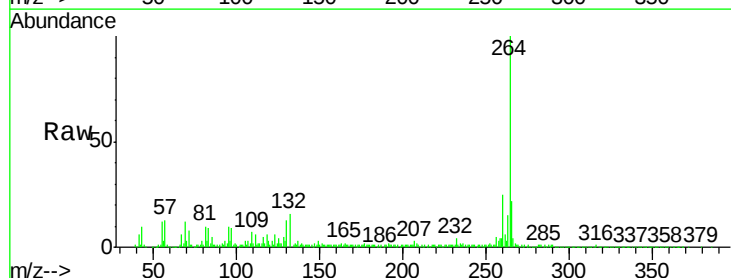
Manual Integrations
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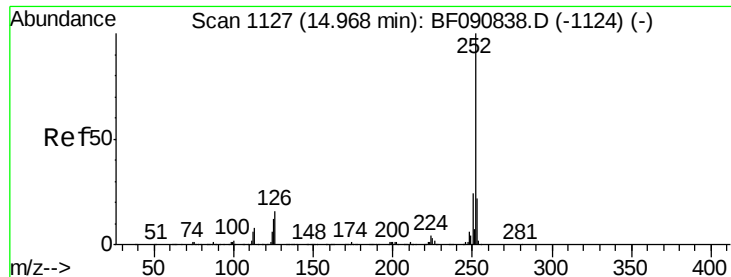
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.30 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	16.7	25.1
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 37.22 ng m

RT: 14.90 min Scan# 1121

Delta R.T. -0.01 min

Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Instrument :

BNA_F

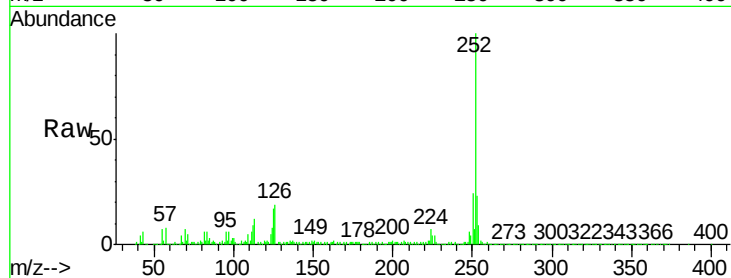
ClientSampleId :

SB-74-0.5-1.0

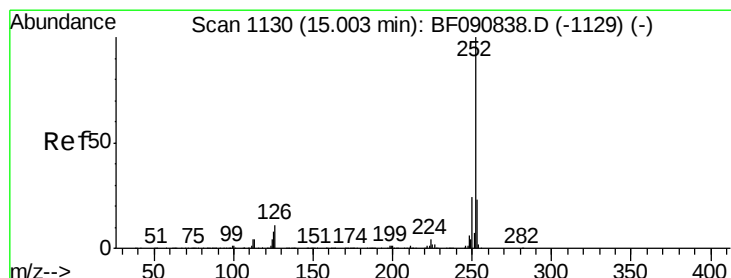
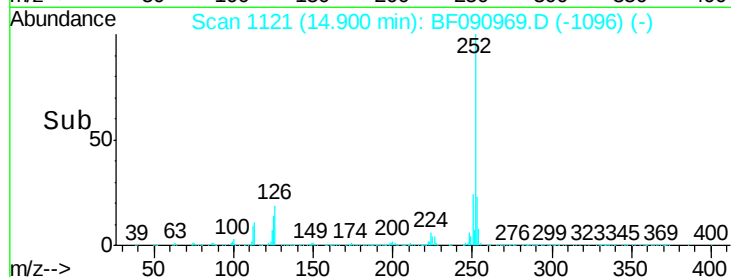
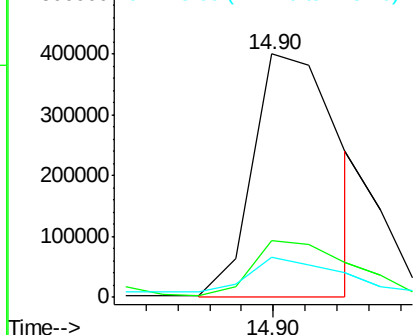
Tot Ion:	252	Resp:	744516
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.5	26.3
125	16.7	17.1	25.7

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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: 7.66 ng m

RT: 14.92 min Scan# 1123

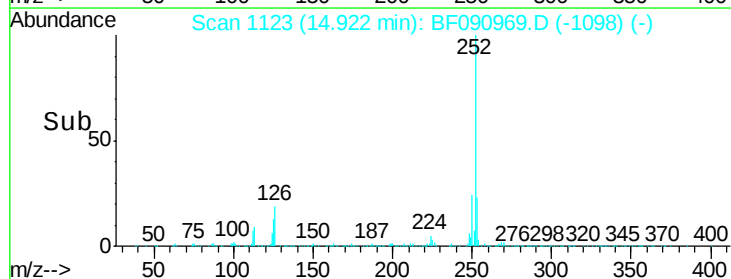
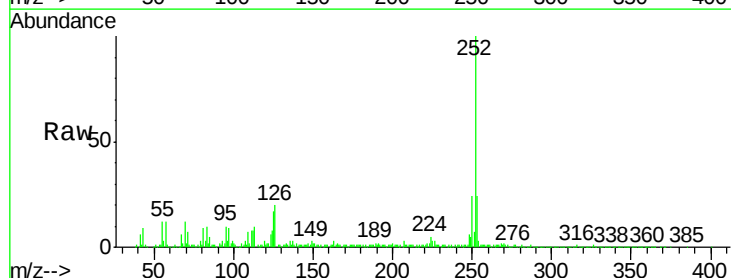
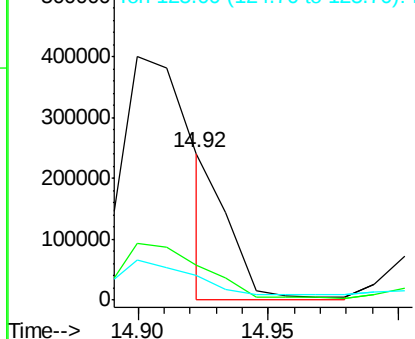
Delta R.T. -0.01 min

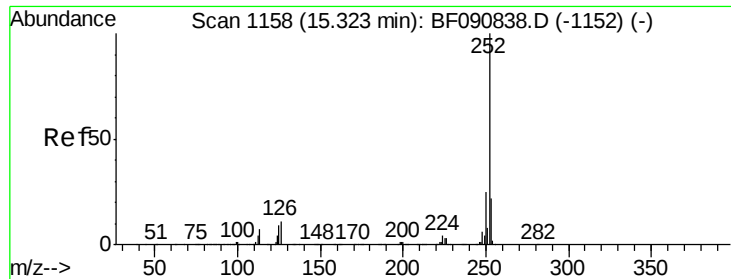
Lab File: BF090969.D

Acq: 1 Nov 2016 23:38

Tgt Ion:	252	Resp:	121140
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.0	25.4
125	16.9	16.0	24.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





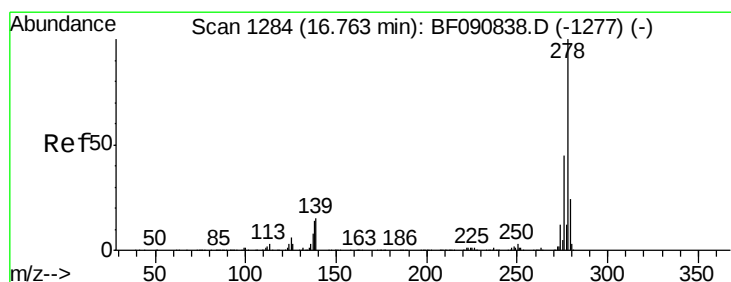
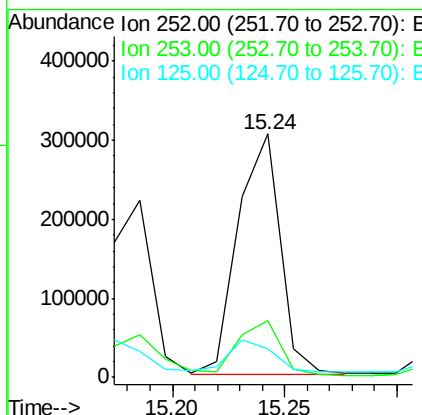
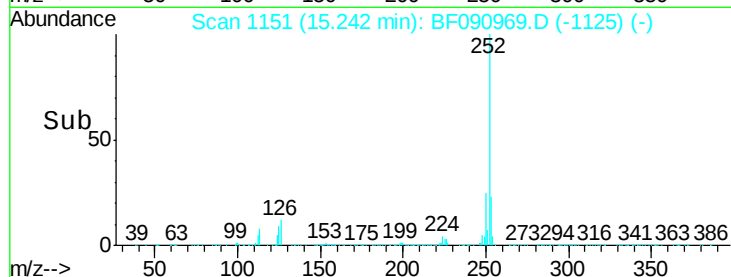
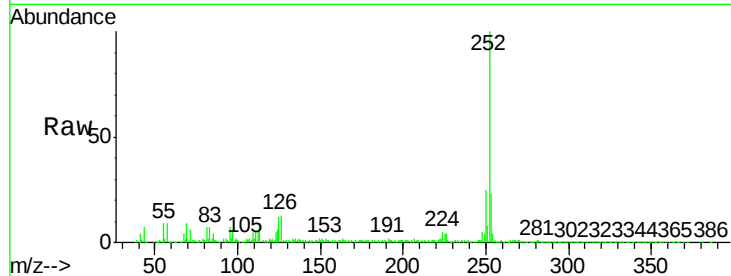
#89
Benzo(a)pyrene
Concen: 23.34 ng/ml
RT: 15.24 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Instrument :
BNA_F
Client Sample Id :
SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	11.7	18.0	27.0

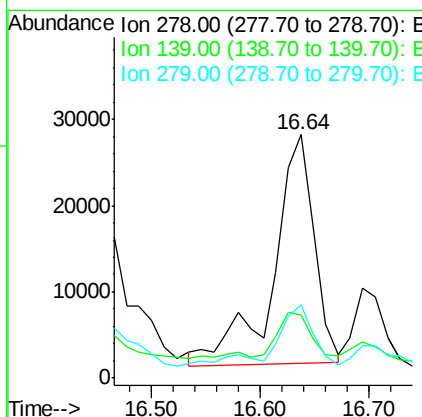
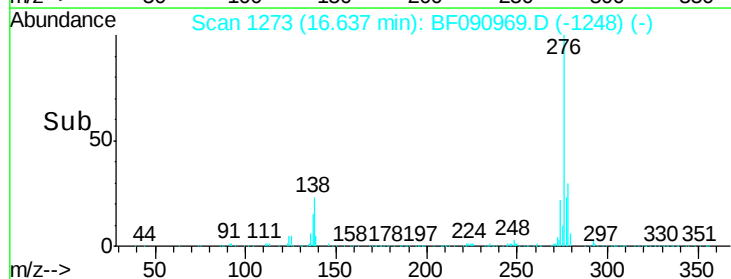
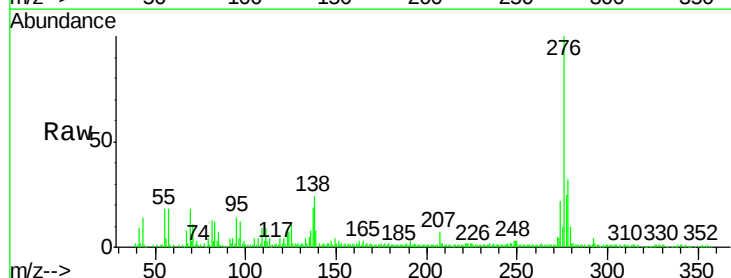
Manual Integrations
APPROVED

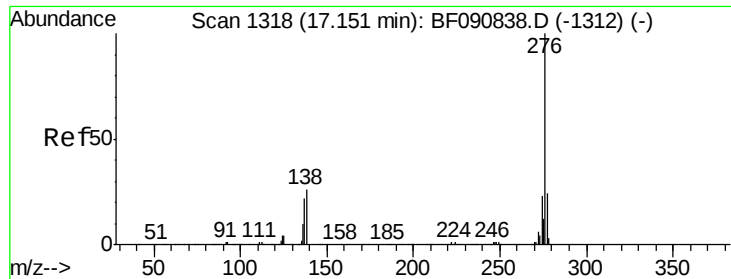
Umangi
11/2/2016 5:42:54 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.82 ng
RT: 16.64 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF090969.D
Acq: 1 Nov 2016 23:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.0	26.3	39.5
279	30.2	18.2	27.4





#91
 Benzo(a,h,i)perylene
 Concen: 15.46 ng
 RT: 17.03 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF090969.D
 Acq: 1 Nov 2016 23:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-74-0.5-1.0

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.8	26.6
138	30.2	34.6	51.8#

Manual Integrations
 APPROVED

Umangi
 11/2/2016 5:42:54 PM

