

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
 Data File : BF089495.D
 Acq On : 1 Aug 2016 5:01
 Operator : UM/SJ
 Sample : H4215-02
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Manual Integrations
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Quant Time: Aug 01 07:22:28 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 04:11:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	39767	20.00	ng	-0.01
21) Naphthalene-d8	7.78	136	135732	20.00	ng	-0.01
38) Acenaphthene-d10	9.52	164	53974	20.00	ng	-0.01
63) Phenanthrene-d10	11.00	188	107866	20.00	ng	0.00
75) Chrysene-d12	13.63	240	99865	20.00	ng	0.01
86) Perylene-d12	14.97	264	86139	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	265344	106.54	ng	0.00
7) Phenol-d6	6.16	99	348637	105.92	ng	-0.01
23) Nitrobenzene-d5	7.06	82	189849	82.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.31	330	46803	104.70	ng	-0.01
44) 2-Fluorobiphenyl	8.86	172	264482	71.91	ng	-0.01
78) Terphenyl-d14	12.58	244	251547	58.95	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.80	128	321622	47.85	ng	100
37) 2-Methylnaphthalene	8.49	142	125669	31.03	ng	97
45) 1,1'-Biphenyl	8.96	154	38538	8.39	ng	95
48) Acenaphthylene	9.38	152	148460	27.31	ng	98
49) Dimethylphthalate	9.27	163	82776	20.15	ng	100
51) Acenaphthene	9.55	154	188160	59.27	ng	99
54) Dibenzofuran	9.72	168	200369	46.32	ng	94
57) Fluorene	10.07	166	276533	73.23	ng	99
70) Phenanthrene	11.03	178	976210	175.48	ng	99
71) Anthracene	11.07	178	407441	65.87	ng	99
72) Carbazole	11.23	167	82722	15.89	ng	# 94
74) Fluoranthene	12.22	202	1444842	246.90	ng	93
77) Pvrene	12.45	202	1296304	171.28	ng	98
80) Benzo(a)anthracene	13.62	228	901482	159.96	ng	94
82) Chrysene	13.67	228	665721	110.97	ng	95
85) Indeno(1,2,3-cd)pyrene	16.16	276	279174	65.45	ng	97
87) Benzo(b)fluoranthene	14.63	252	775073m	144.89	ng	
88) Benzo(k)fluoranthene	14.64	252	281589m	57.26	ng	
89) Benzo(a)pvrene	14.93	252	495562	103.27	ng	98
90) Dibenzo(a,h)anthracene	16.16	278	87096	23.04	ng	93
91) Benzo(q,h,i)perylene	16.51	276	242808	65.34	ng	95

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

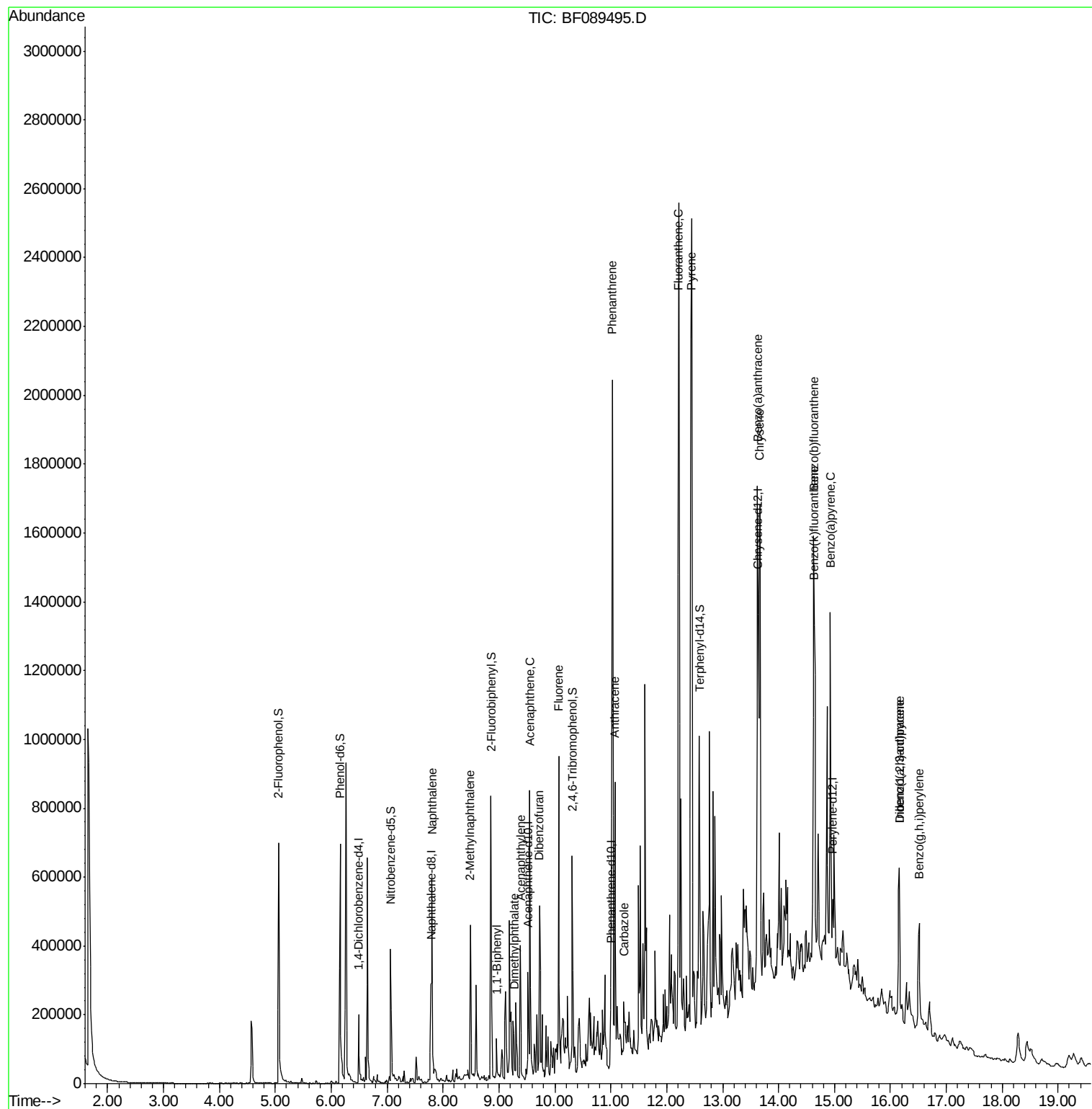
Data Path : Z:\HPCHEM1\BNA F\DATA\BF073116\
Data File : BF089495.D
Acq On : 1 Aug 2016 5:01
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Misc :
ALS Vial : 30 Sample Multiplier: 1

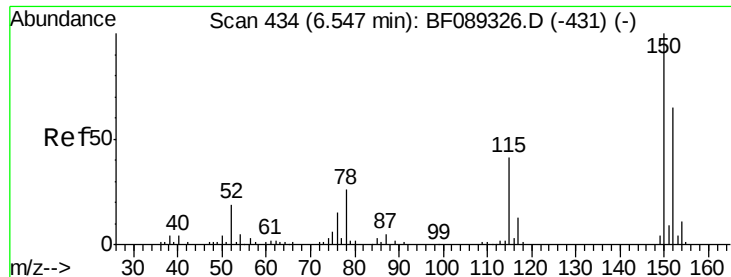
Instrument :
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SB-15-COMP

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Quant Time: Aug 01 07:22:28 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 01 04:11:30 2016
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#1

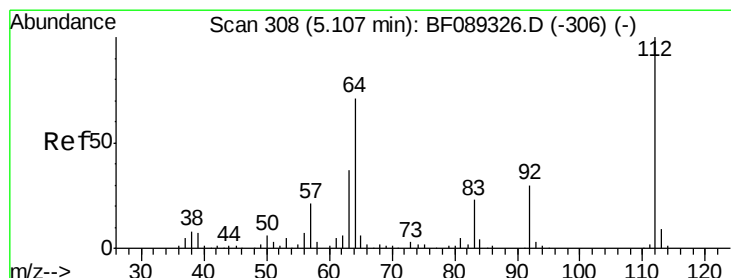
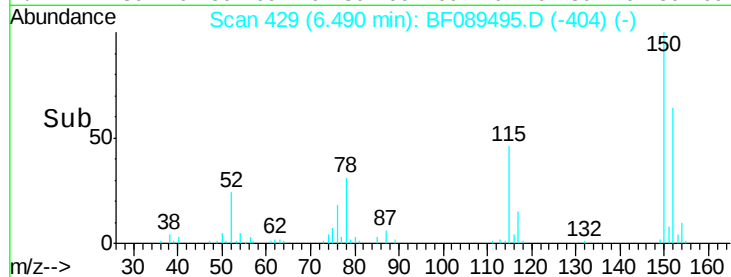
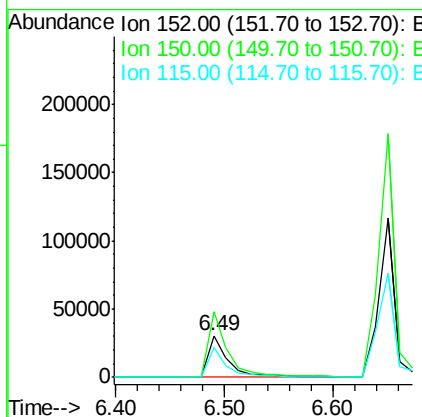
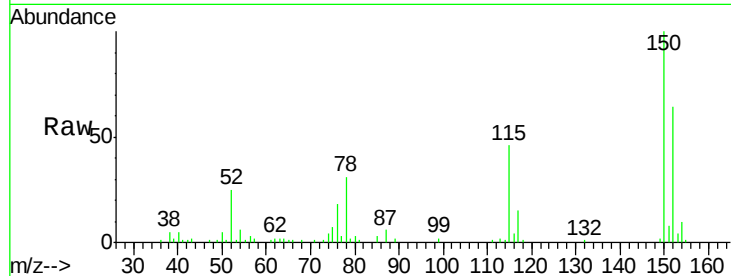
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.49 min Scan# 429
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	129.5	194.3
115	73.1	51.4	77.2

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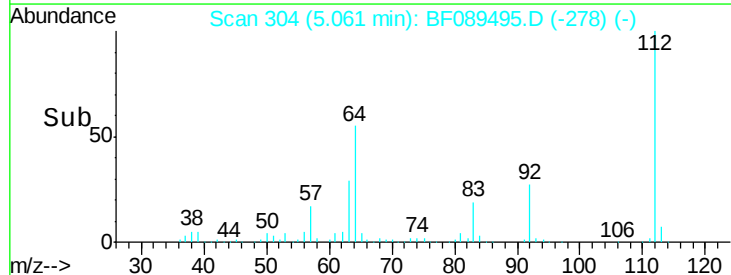
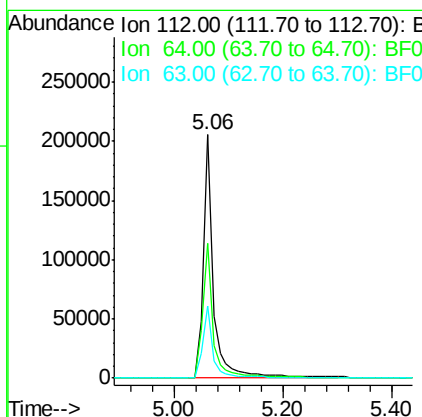
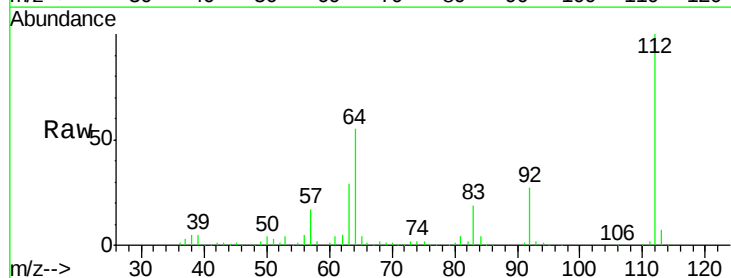
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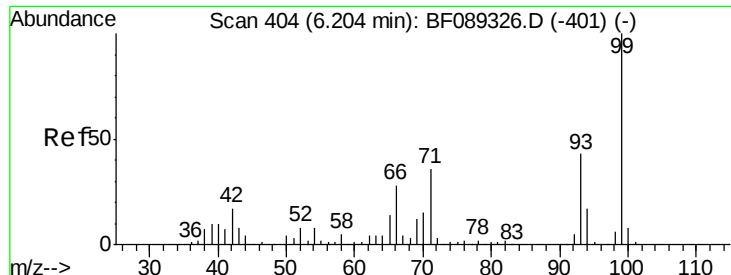


#5

2-Fluorophenol
 Concen: 106.54 ng
 RT: 5.06 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	55.0	82.6
63	29.5	29.4	44.2





#7

Phenol-d6

Concen: 105.92 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

ClientSampleId :

SB-15-COMP

Tot Ion: 99 Resp: 348637

Ion Ratio Lower Upper

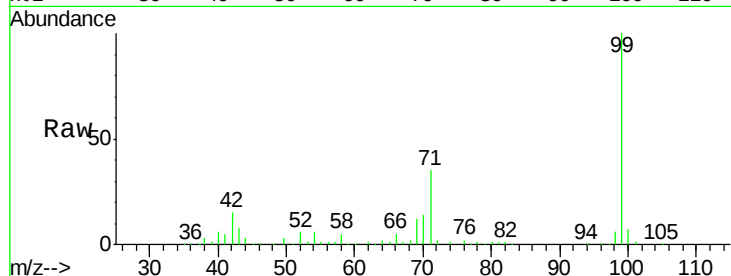
99 100

42 15.0 13.6 20.4

71 34.6 29.4 44.2

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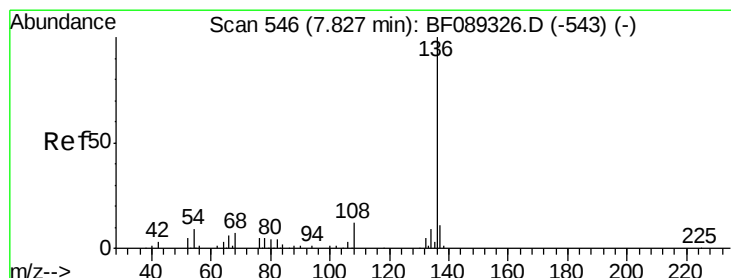
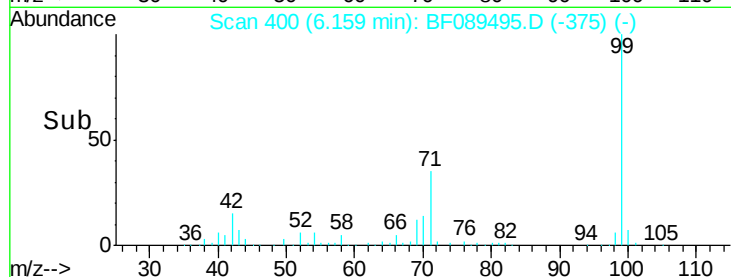
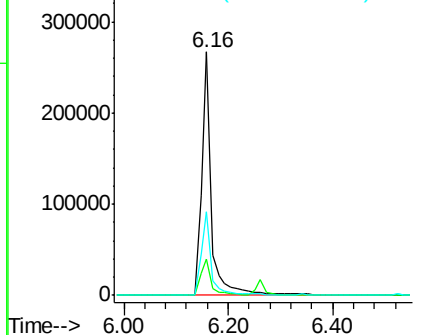
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.78 min Scan# 542

Delta R.T. -0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion: 136 Resp: 135732

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 6.7 7.0 10.4

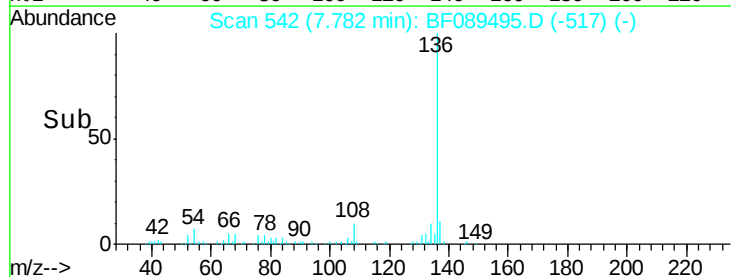
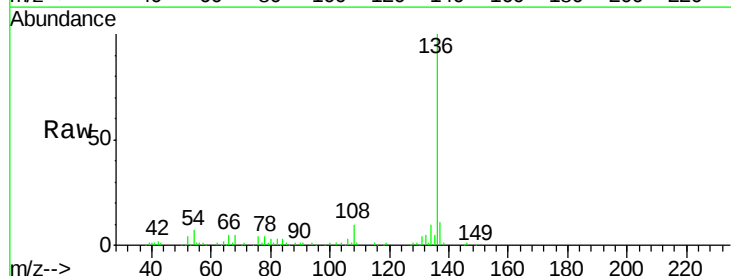
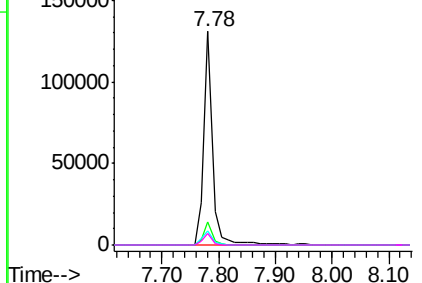
68 5.3 4.9 7.3

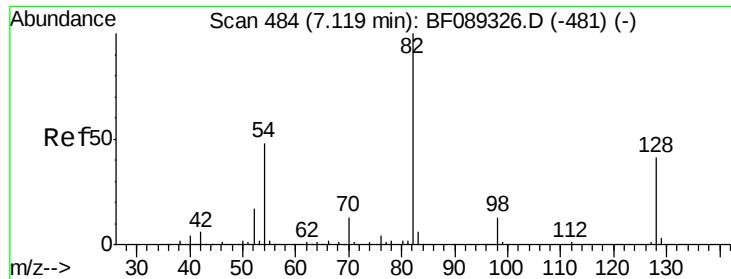
Abundance Ion 136.00 (135.70 to 136.70): E

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





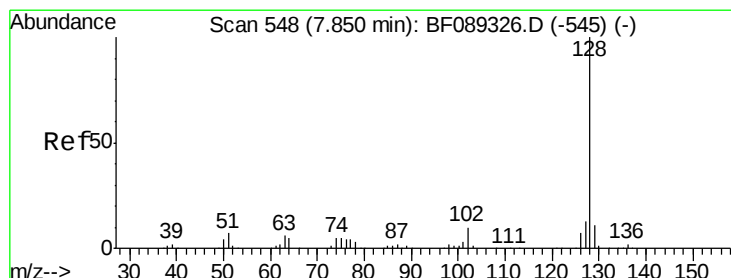
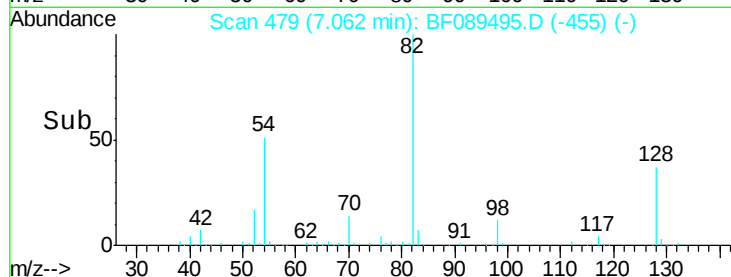
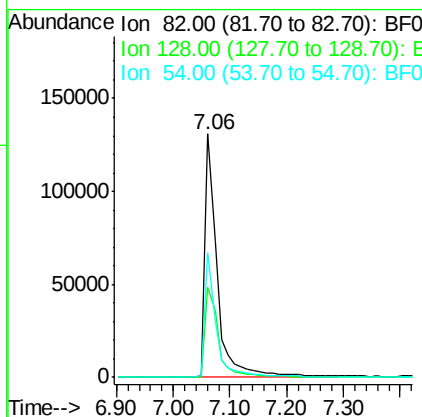
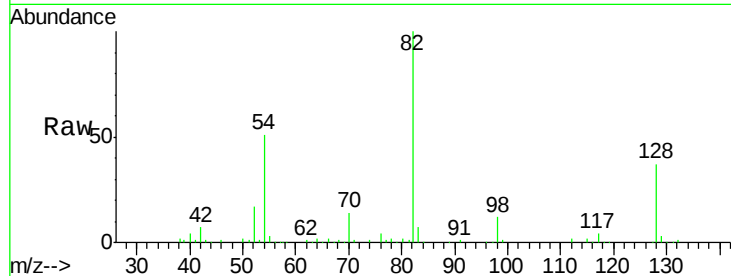
#23
 Nitrobenzene-d5
 Concen: 82.56 ng
 RT: 7.06 min Scan# 479
 Delta R.T. -0.02 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tot Ion:	82	Resp:	189849
Ion Ratio	Lower	Upper	
82	100		
128	36.9	32.5	48.7
54	51.2	38.8	58.2

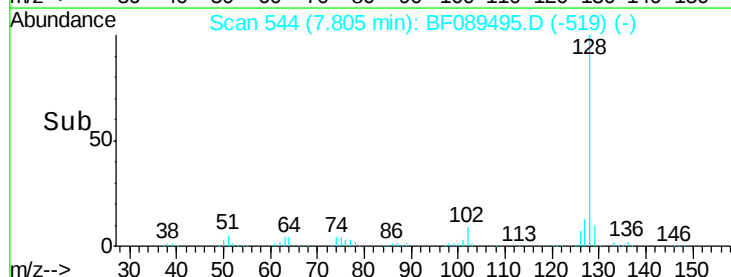
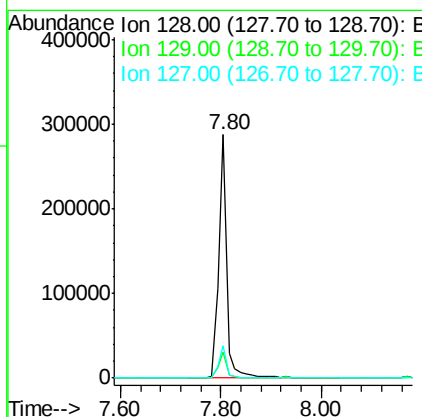
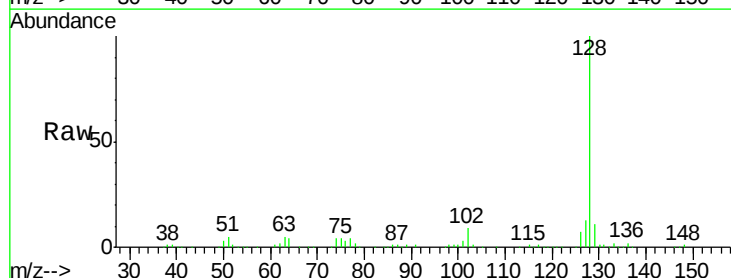
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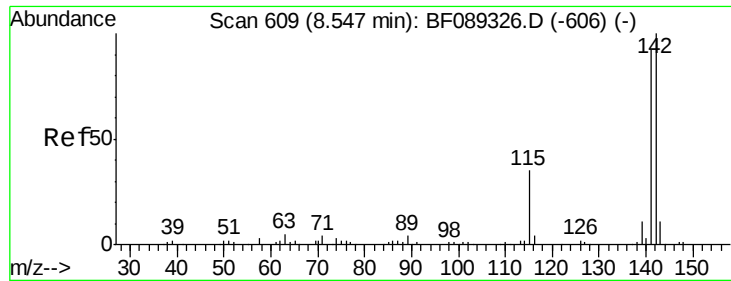
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#31
 Naphthalene
 Concen: 47.85 ng
 RT: 7.80 min Scan# 544
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Tgt Ion:	128	Resp:	321622
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.8	13.2
127	13.4	10.8	16.2





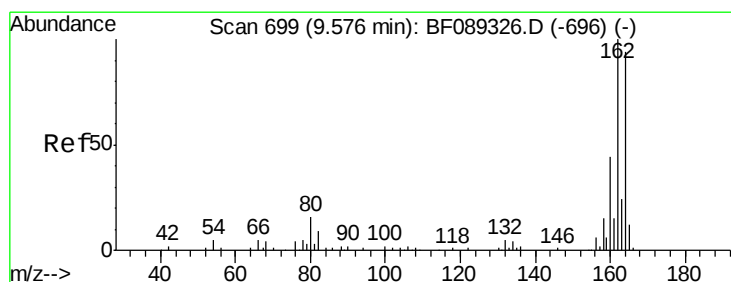
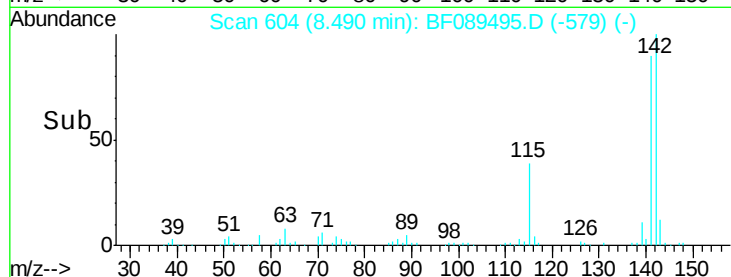
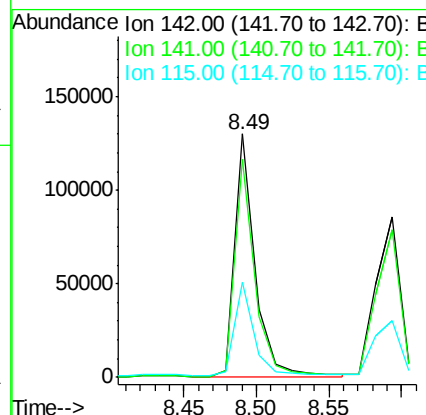
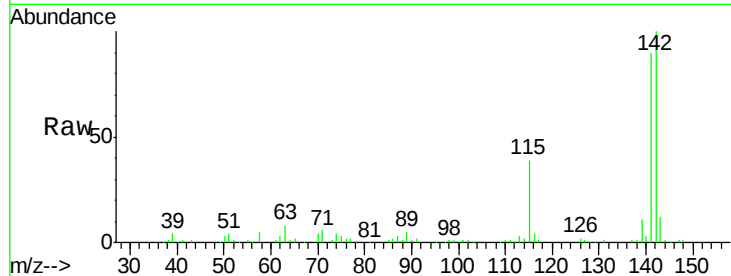
#37
2-Methylnaphthalene
Concen: 31.03 ng
RT: 8.49 min Scan# 604
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.9	106.3
115	39.0	27.6	41.4

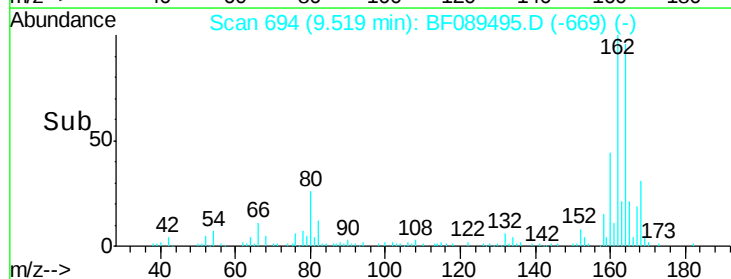
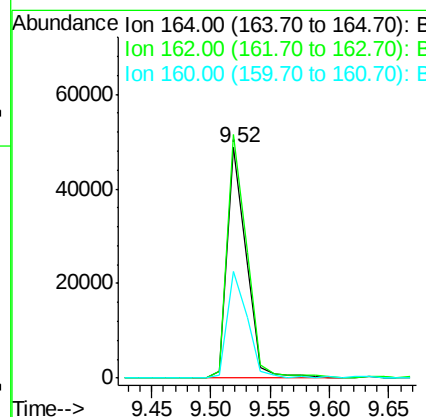
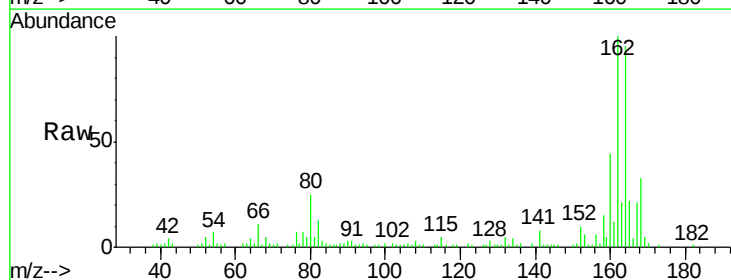
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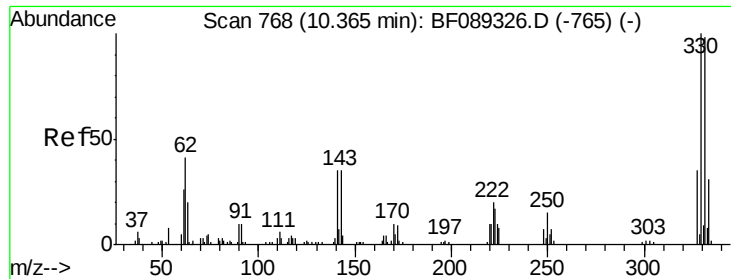
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.7	125.5
160	46.3	37.8	56.6





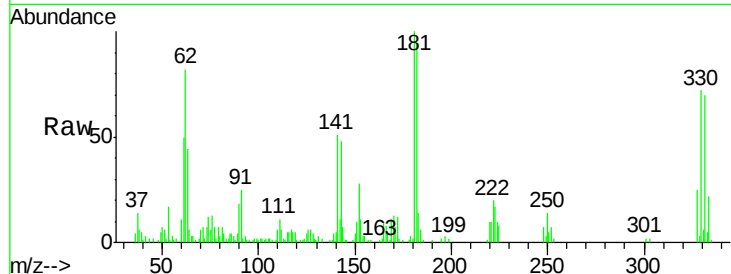
#41
 2,4,6-Tribromophenol
 Concen: 104.70 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

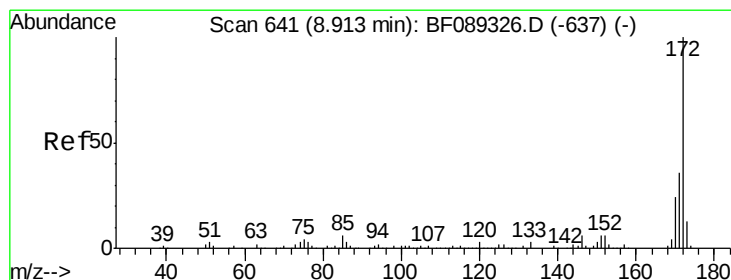
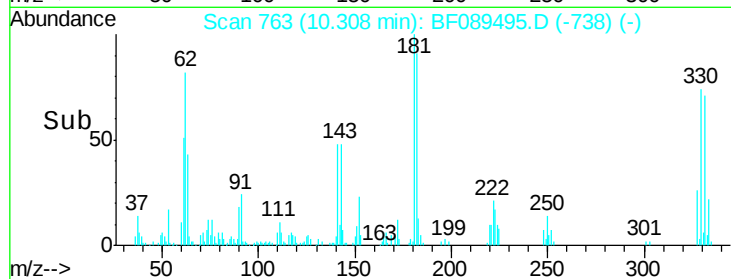
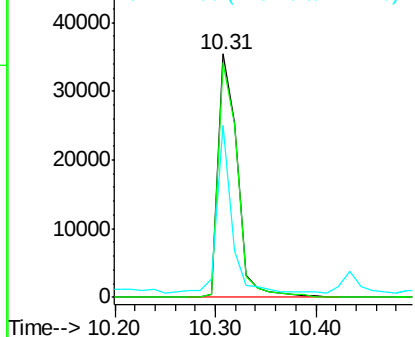
Tot Ion	Ratio	Resp	Lower	Upper
330	100	46803		
332	97.2	76.8	115.2	
141	54.4	37.3	55.9	

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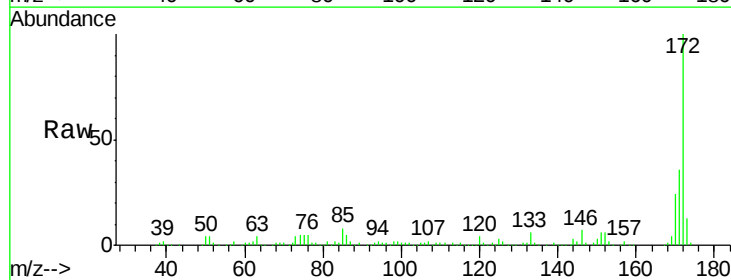


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

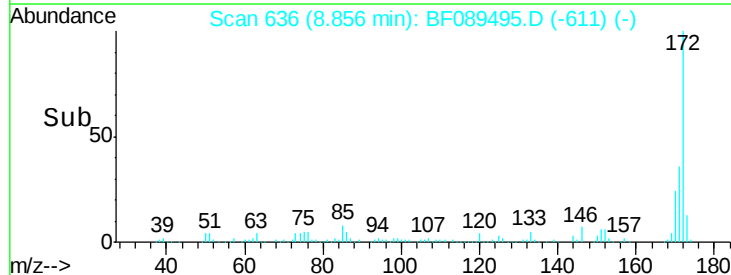
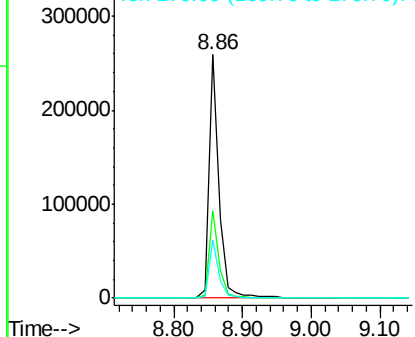


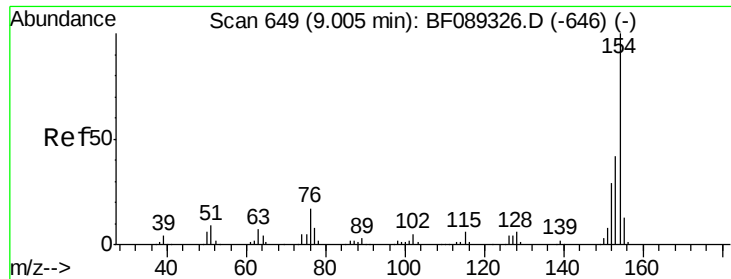
#44
 2-Fluorobiphenyl
 Concen: 71.91 ng
 RT: 8.86 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	264482		
171	35.9	29.2	43.8	
170	23.6	19.2	28.8	



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





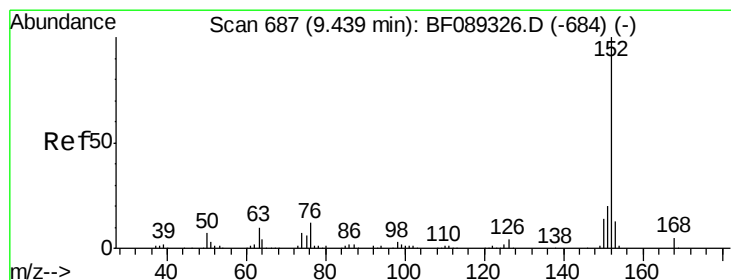
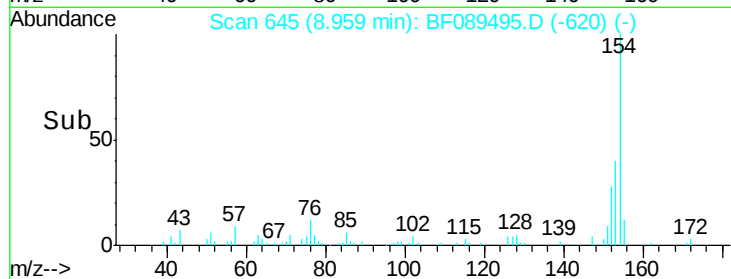
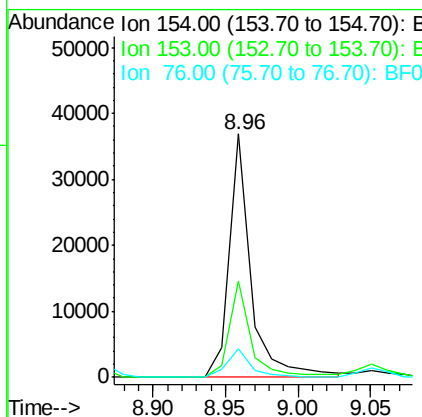
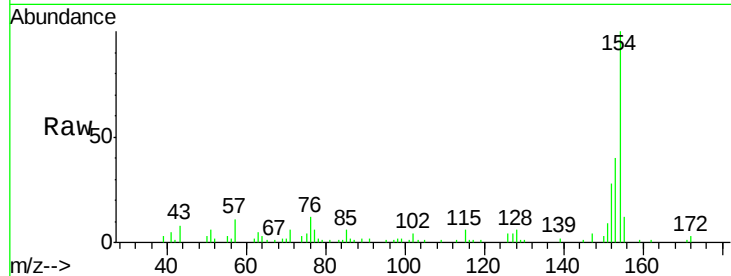
#45
1,1'-Biphenyl
Concen: 8.39 ng
RT: 8.96 min Scan# 645
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tot Ion:	154	Resp:	38538
Ion Ratio	Lower	Upper	
154	100		
153	39.7	21.0	61.0
76	11.6	0.0	36.6

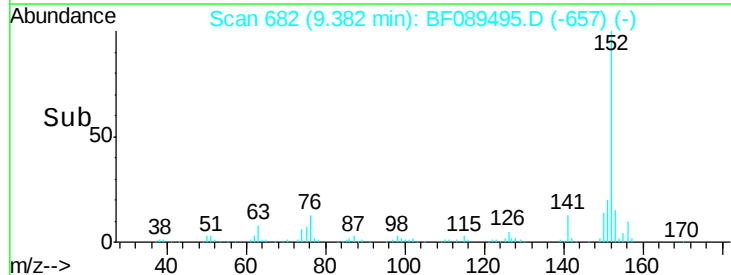
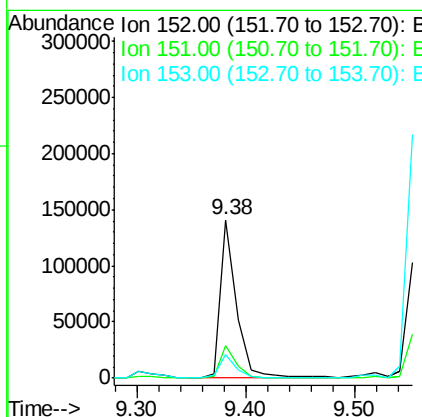
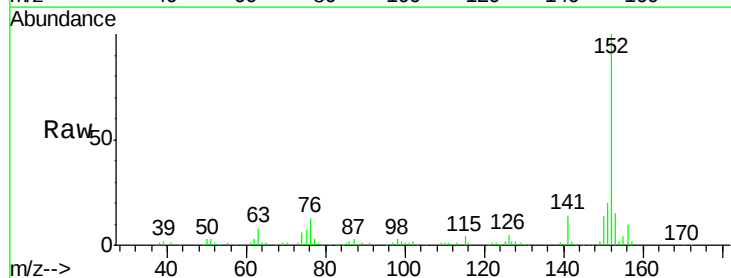
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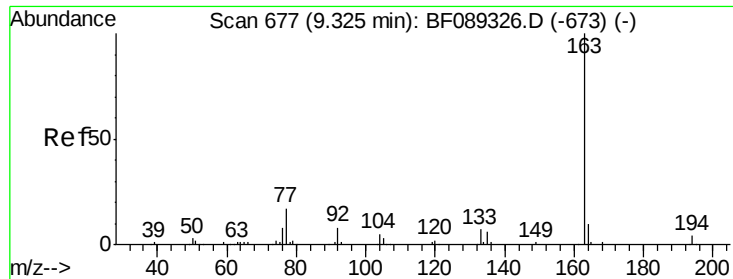
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#48
Acenaphthylene
Concen: 27.31 ng
RT: 9.38 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Tgt Ion:	152	Resp:	148460
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.2
153	14.9	10.2	15.4





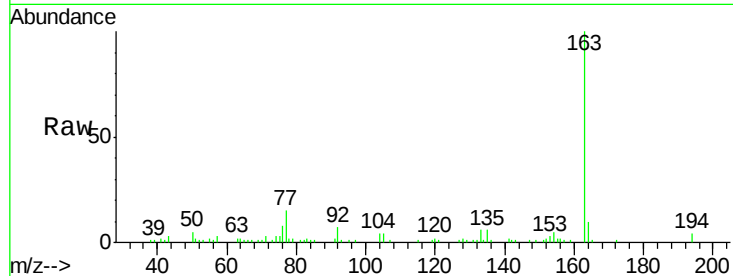
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Dimethylphthalate
Concen: 20.15 ng
RT: 9.27 min Scan# 672
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

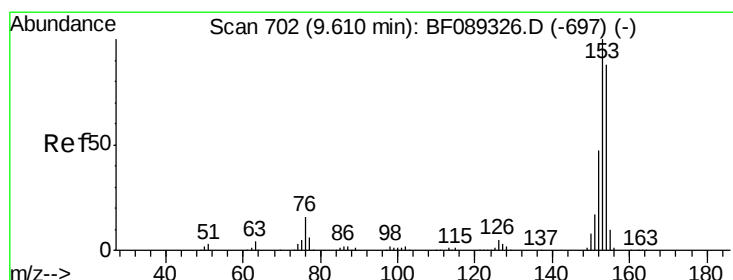
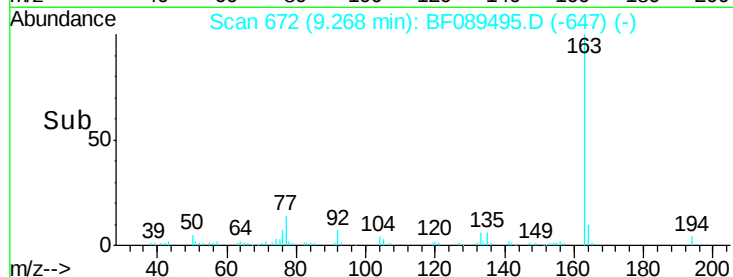
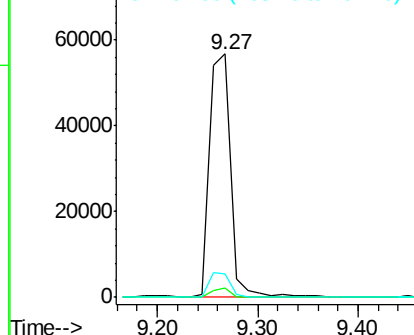
Tot Ion	Ratio	Resp	Lower	Upper
163	100	82776		
194	3.9		2.8	4.2
164	9.8		7.8	11.8

Manual Integrations
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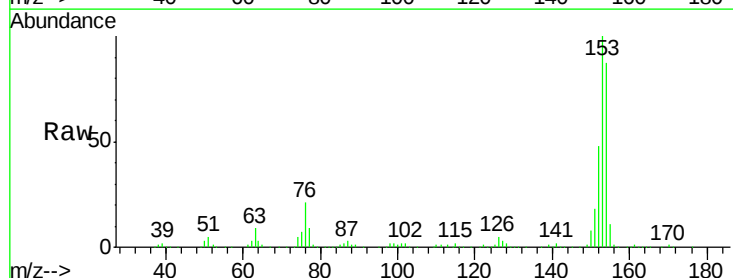


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

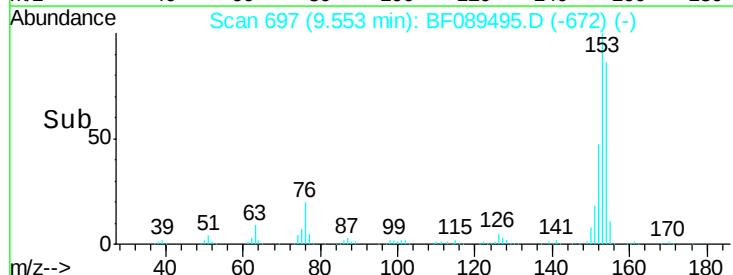
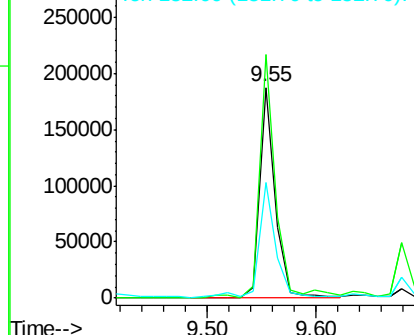


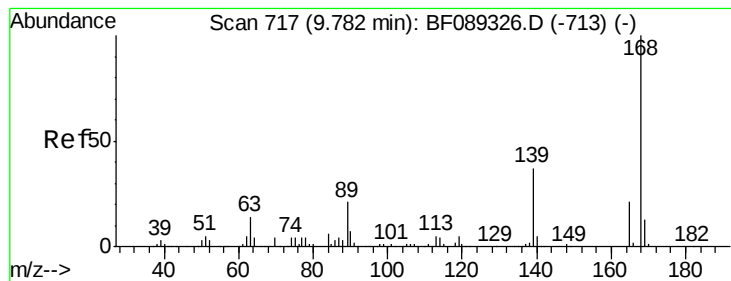
#51
Acenaphthene
Concen: 59.27 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	188160		
153	115.5		91.4	137.2
152	55.0		43.8	65.6



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

Dibenzenofuran

Concen: 46.32 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

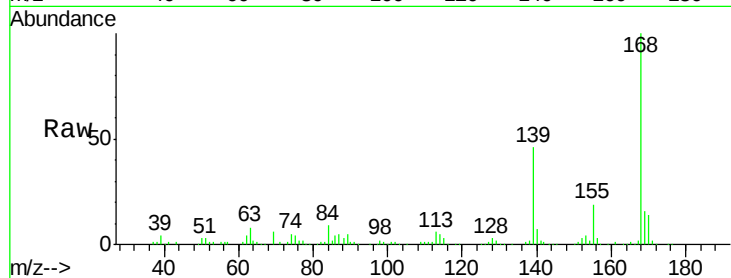
ClientSampleId :

SB-15-COMP

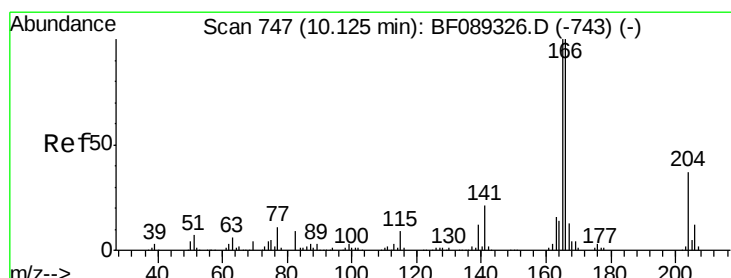
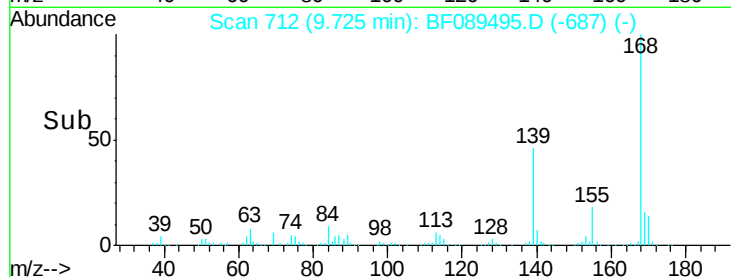
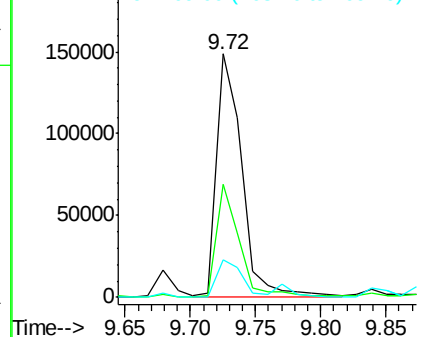
Tot Ion:	168	Resp:	200369
Ion Ratio	Lower	Upper	
168	100		
139	46.3	33.7	50.5
169	15.6	10.7	16.1

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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: 73.23 ng

RT: 10.07 min Scan# 742

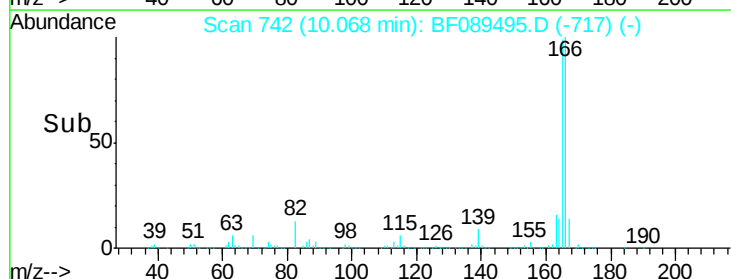
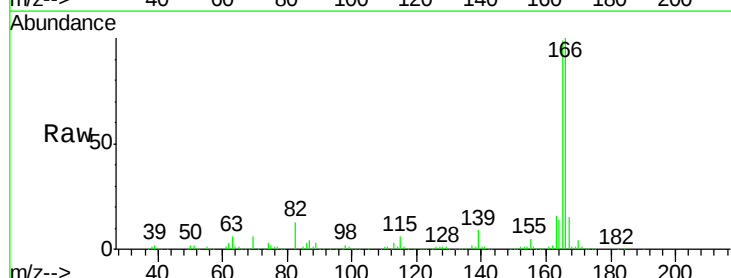
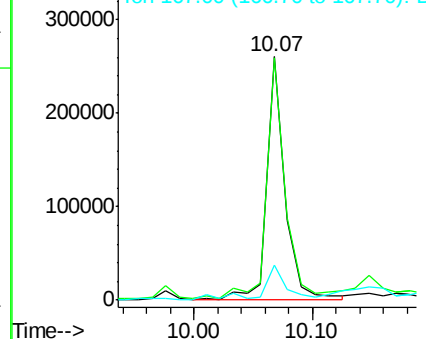
Delta R.T. -0.01 min

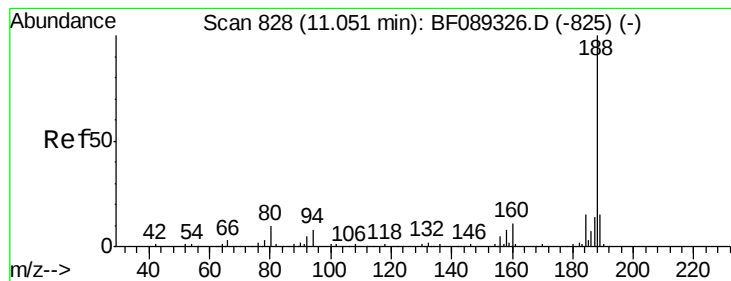
Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion:	166	Resp:	276533
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.0	118.4
167	14.6	10.2	15.2

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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.00 min Scan# 824

Delta R.T. 0.00 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

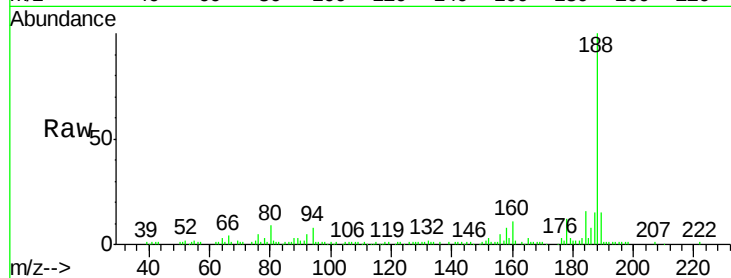
ClientSampled :

SB-15-COMP

Tot Ion:188	Resp:	107866
Ion Ratio	Lower	Upper
188 100		
94 8.3	6.5	9.7
80 9.4	7.2	10.8

Manual Integrations
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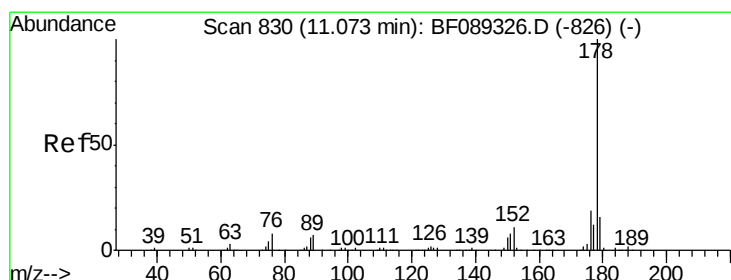
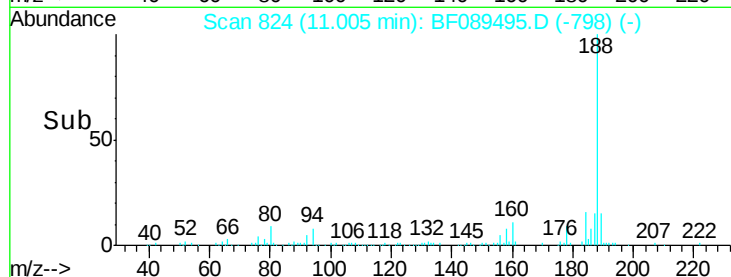
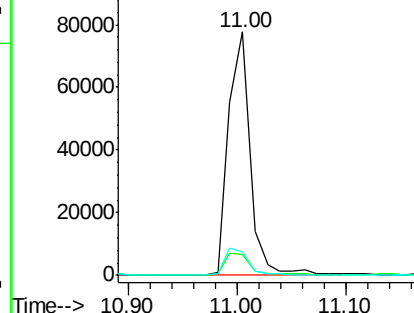
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 175.48 ng

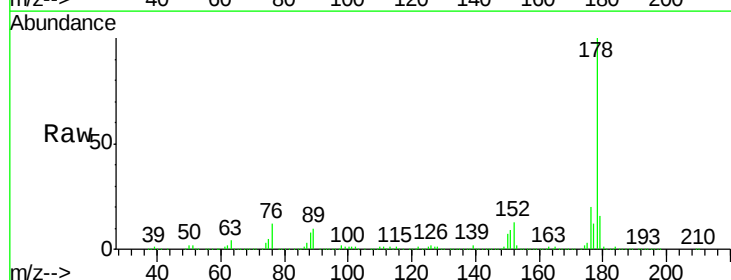
RT: 11.03 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

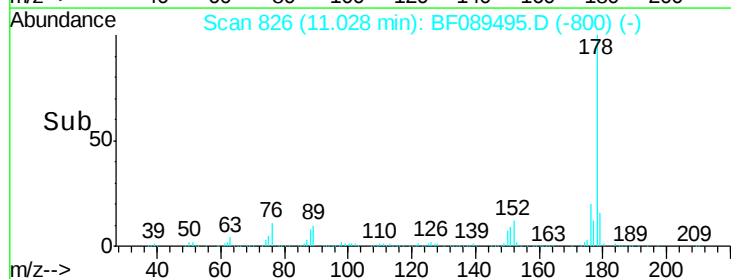
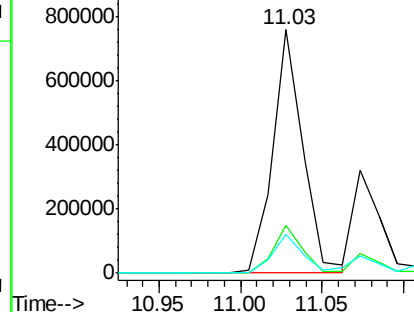
Tgt Ion:178	Resp:	976210
Ion Ratio	Lower	Upper
178 100		
176 19.7	15.5	23.3
179 16.2	12.3	18.5

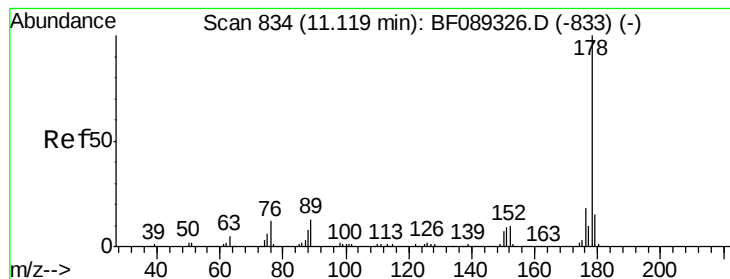


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





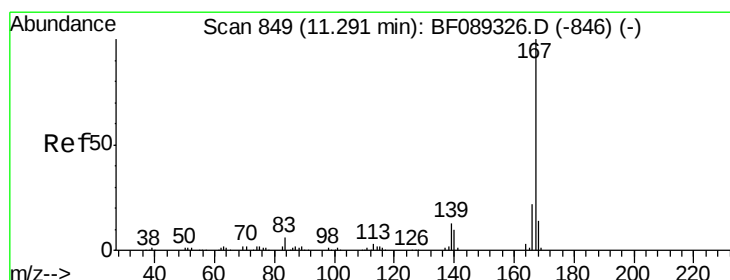
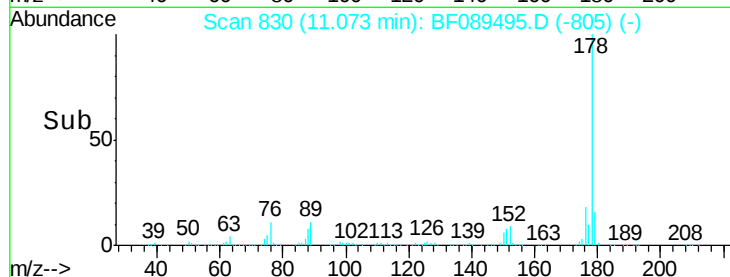
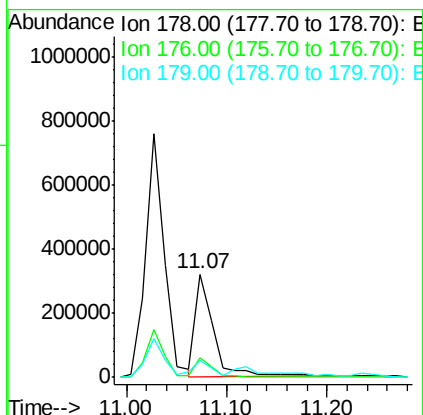
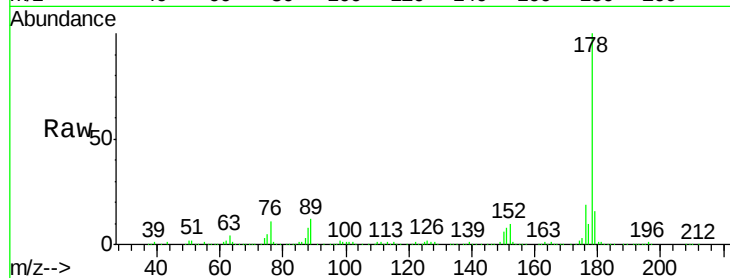
#71
 Anthracene
 Concen: 65.87 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	16.3	12.6	18.8

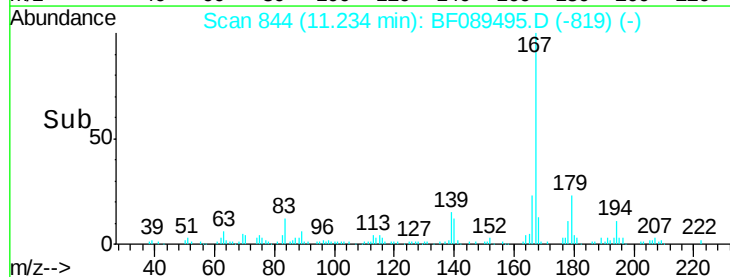
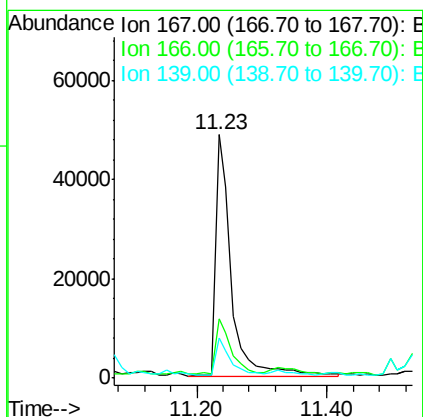
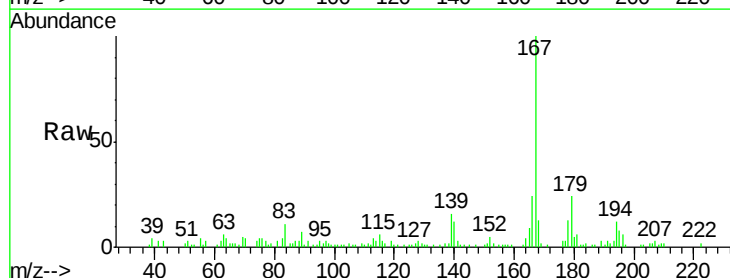
Manual Integrations
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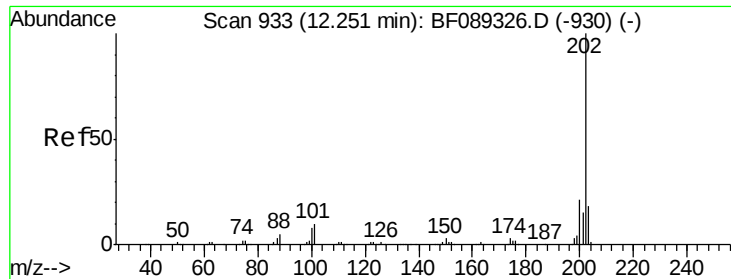
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#72
 Carbazole
 Concen: 15.89 ng
 RT: 11.23 min Scan# 844
 Delta R.T. -0.01 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.1	17.6	26.4
139	16.3	10.1	15.1#





#74

Fluoranthene

Concen: 246.90 ng

RT: 12.22 min Scan# 930

Delta R.T. 0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

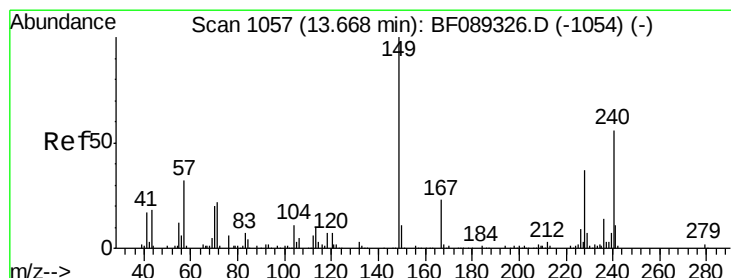
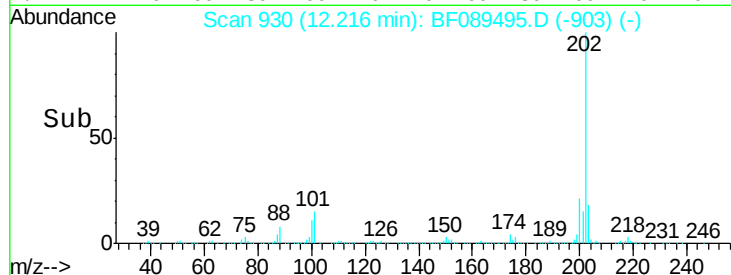
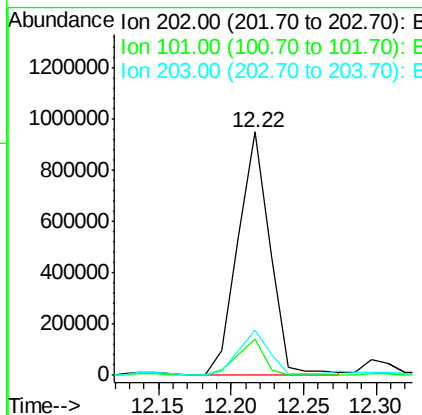
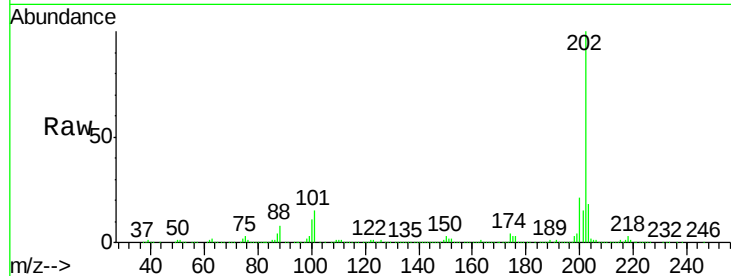
ClientSampleId :

SB-15-COMP

Tot Ion:	202	Resp:	1444842
Ion Ratio	Lower	Upper	
202	100		
101	14.9	0.0	29.9
203	18.4	0.0	37.3

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#75

Chrysene-d12

Concen: 20.00 ng

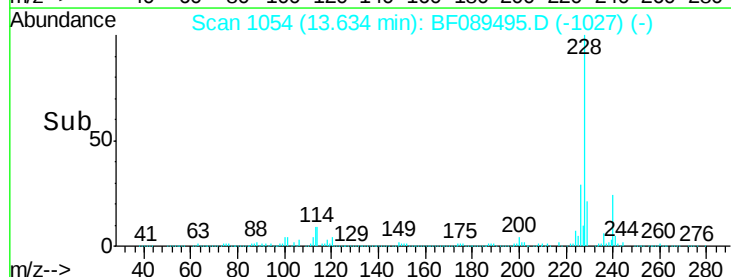
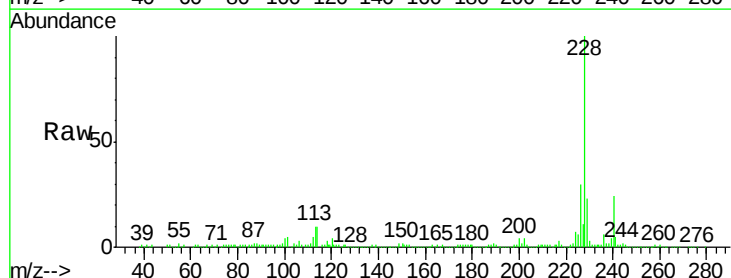
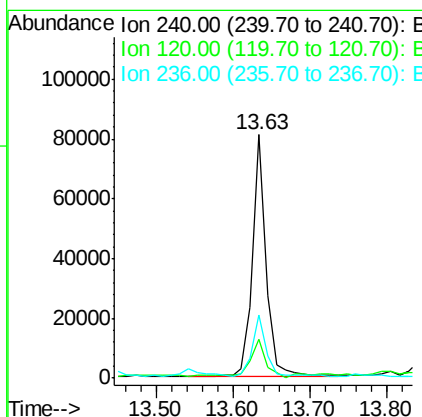
RT: 13.63 min Scan# 1054

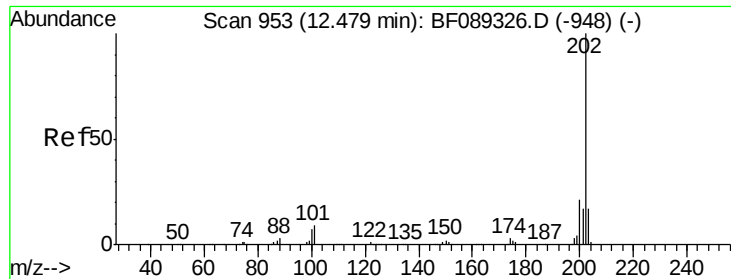
Delta R.T. 0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion:	240	Resp:	99865
Ion Ratio	Lower	Upper	
240	100		
120	15.8	9.1	13.7#
236	25.7	20.6	30.8





#77

Pvrene

Concen: 171.28 ng

RT: 12.45 min Scan# 950

Delta R.T. 0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

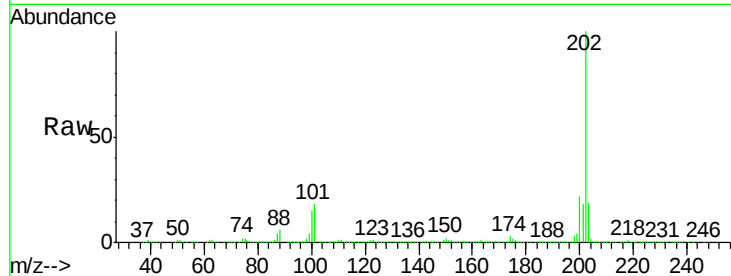
ClientSampleId :

SB-15-COMP

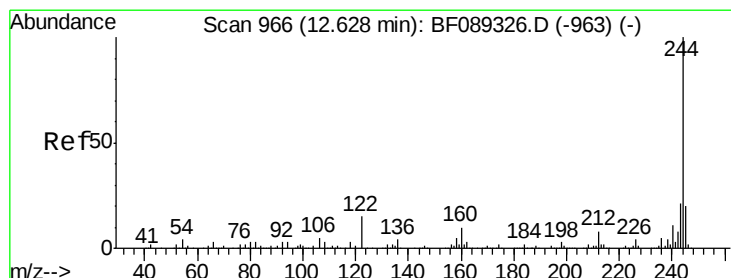
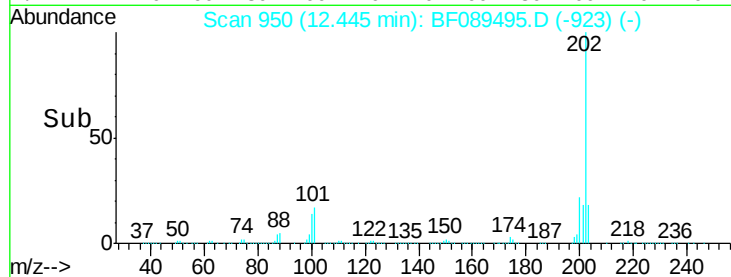
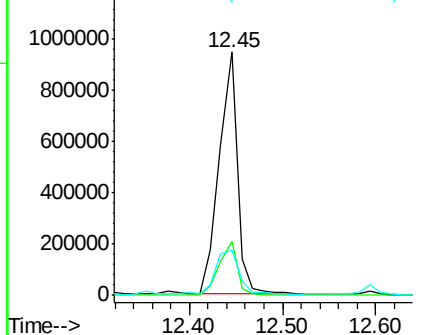
Tot Ion:	202	Resp:	1296304
Ion	Ratio	Lower	Upper
202	100		
200	22.1	16.9	25.3
203	18.8	14.0	21.0

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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: 58.95 ng

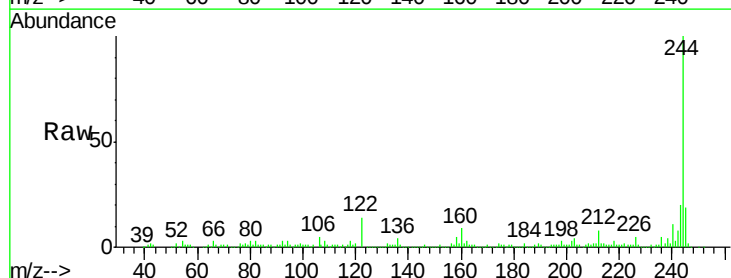
RT: 12.58 min Scan# 962

Delta R.T. 0.00 min

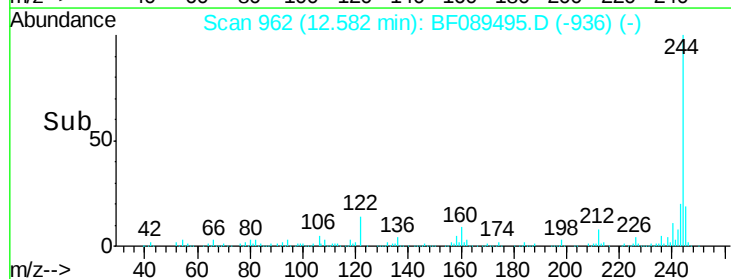
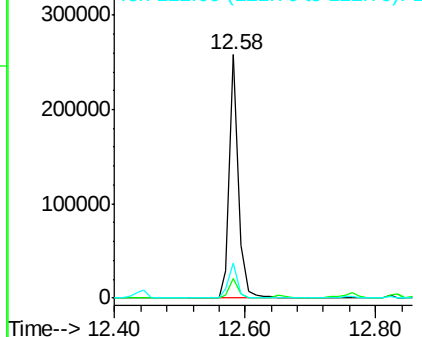
Lab File: BF089495.D

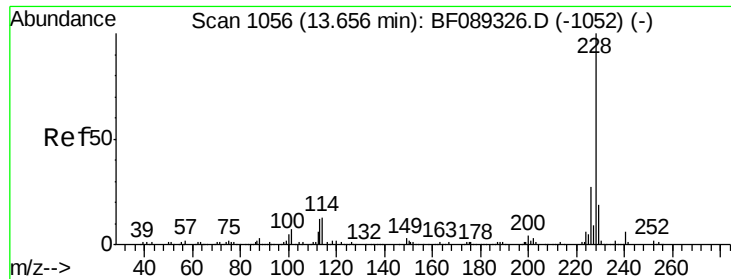
Acq: 1 Aug 2016 5:01

Tgt Ion:	244	Resp:	251547
Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.5	9.7
122	14.3	11.4	17.0



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





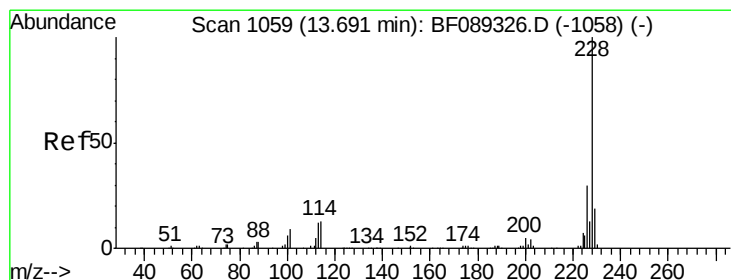
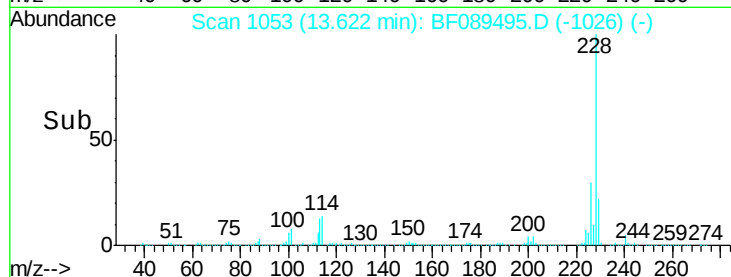
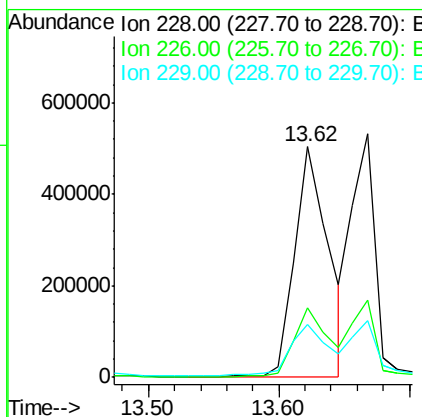
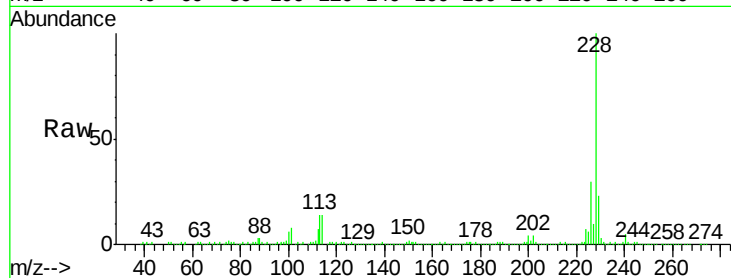
#80
Benzo(a)anthracene
Concen: 159.96 ng
RT: 13.62 min Scan# 1053
Delta R.T. 0.01 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	21.4	32.2
229	22.9	15.9	23.9

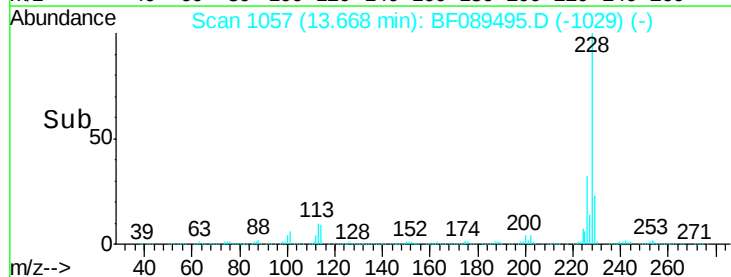
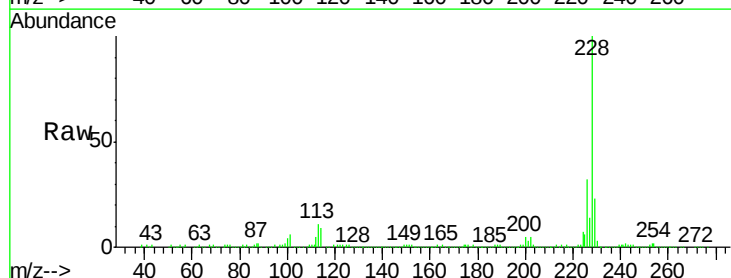
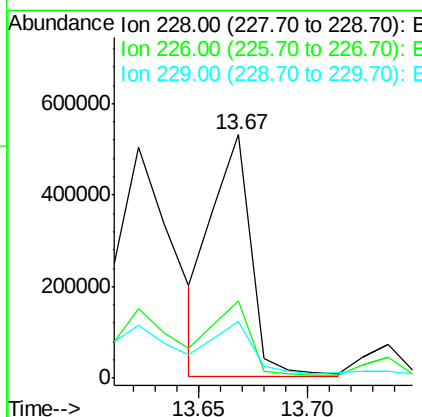
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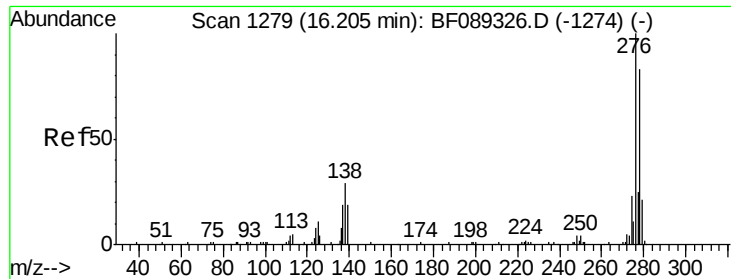
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#82
Chrysene
Concen: 110.97 ng
RT: 13.67 min Scan# 1057
Delta R.T. 0.02 min
Lab File: BF089495.D
Acq: 1 Aug 2016 5:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.2	36.2
229	23.2	15.9	23.9





#85

Indeno(1,2,3-cd)pyrene

Concen: 65.45 ng

RT: 16.16 min Scan# 1275

Delta R.T. 0.02 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

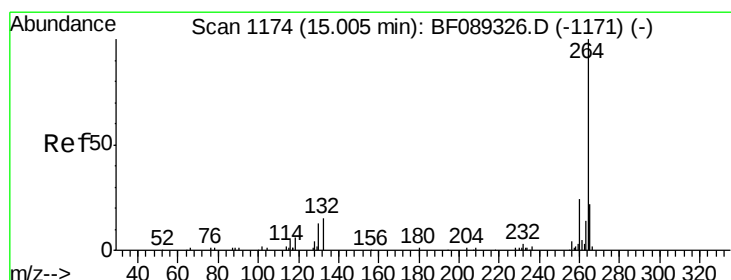
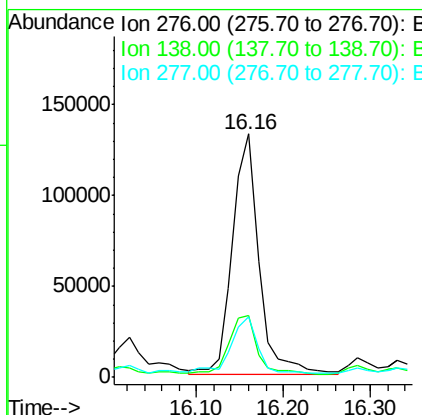
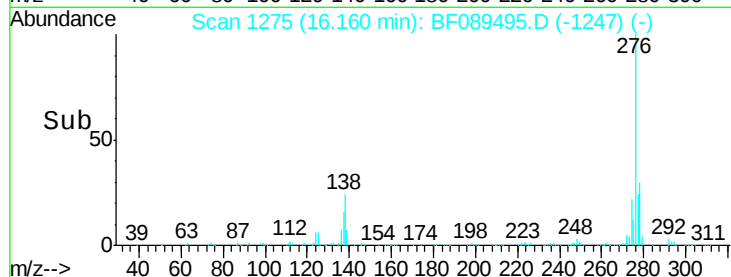
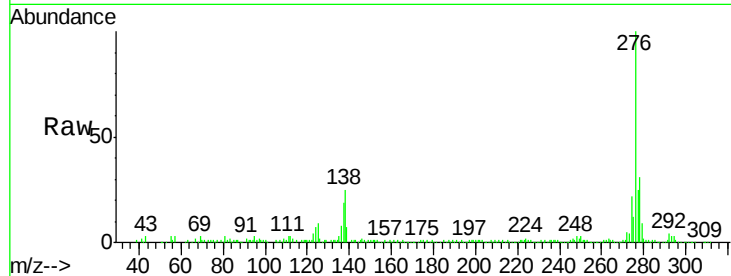
ClientSampleId :

SB-15-COMP

Tot Ion:	276	Resp:	279174
Ion Ratio		Lower	Upper
276	100		
138	27.1	23.0	34.4
277	24.0	20.2	30.4

Manual Integrations
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#86

Perylene-d12

Concen: 20.00 ng

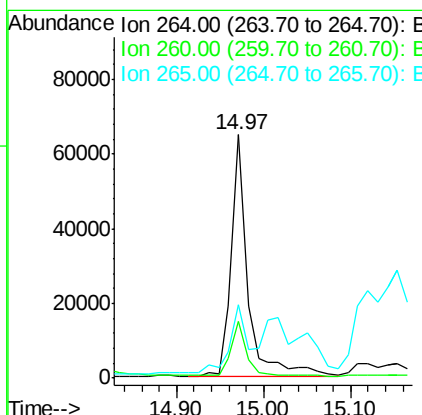
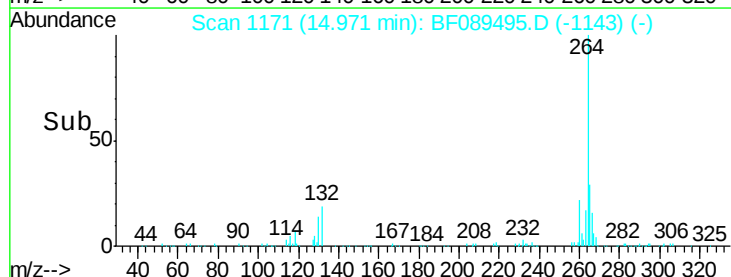
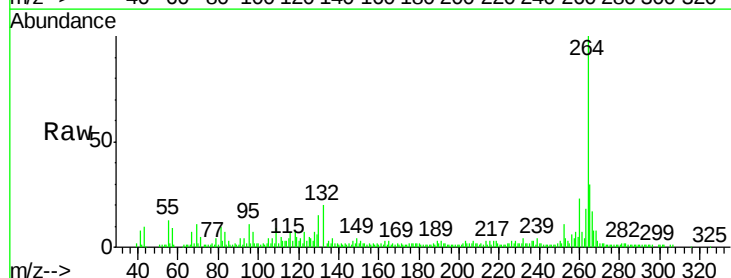
RT: 14.97 min Scan# 1171

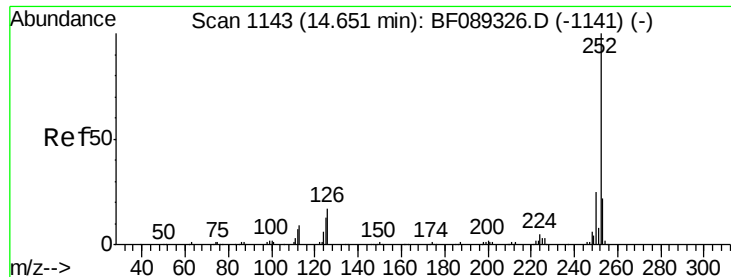
Delta R.T. 0.02 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion:	264	Resp:	86139
Ion Ratio		Lower	Upper
264	100		
260	23.3	19.0	28.4
265	30.0	17.5	26.3#





#87

Benzo(b)fluoranthene

Concen: 144.89 ng m

RT: 14.63 min Scan# 1141

Delta R.T. 0.02 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

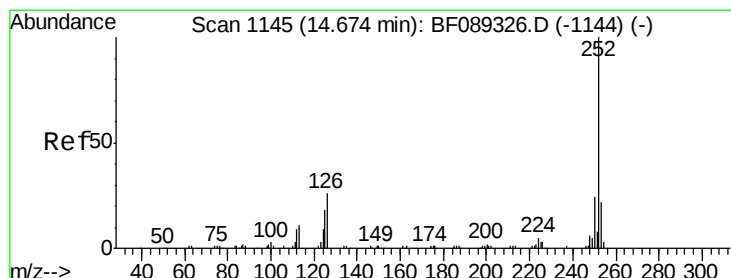
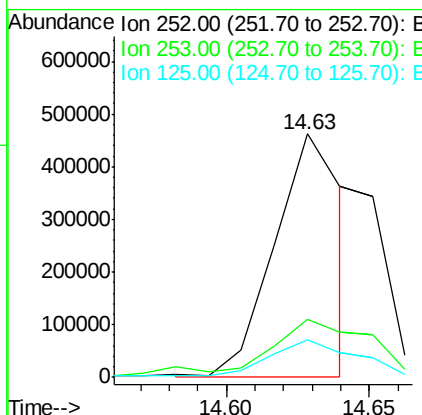
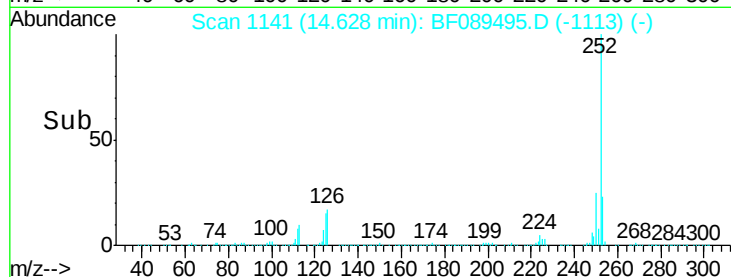
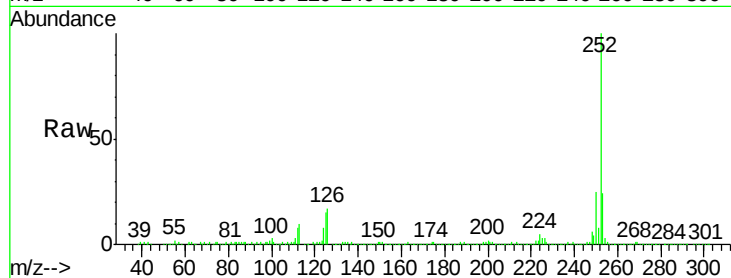
ClientSampleId :

SB-15-COMP

Tot Ion:	252	Resp:	775073
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.2	25.8
125	15.3	9.7	14.5#

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#88

Benzo(k)fluoranthene

Concen: 57.26 ng m

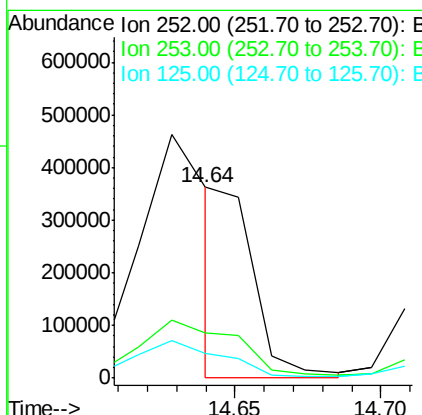
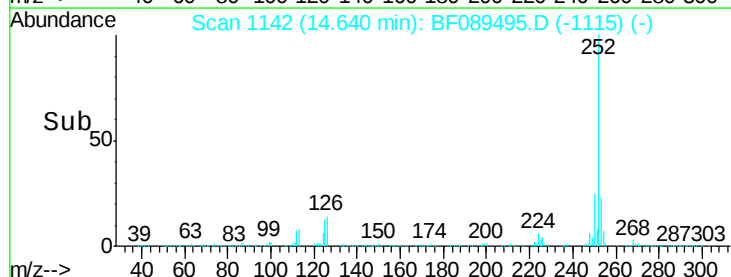
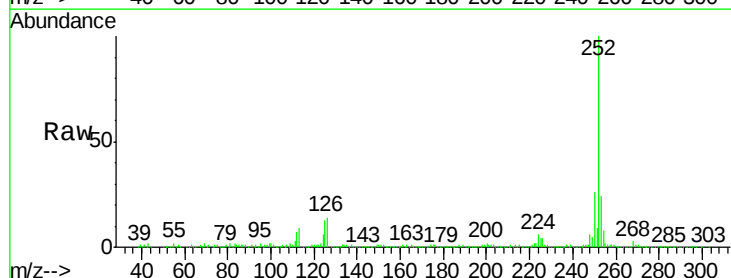
RT: 14.64 min Scan# 1142

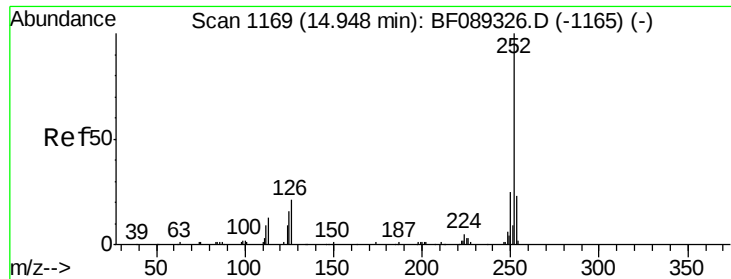
Delta R.T. 0.01 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion:	252	Resp:	281589
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.8	26.8
125	13.1	10.7	16.1





#89

Benzo(a)pyrene

Concen: 103.27 ng

RT: 14.93 min Scan# 1167

Delta R.T. 0.02 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Instrument :

BNA_F

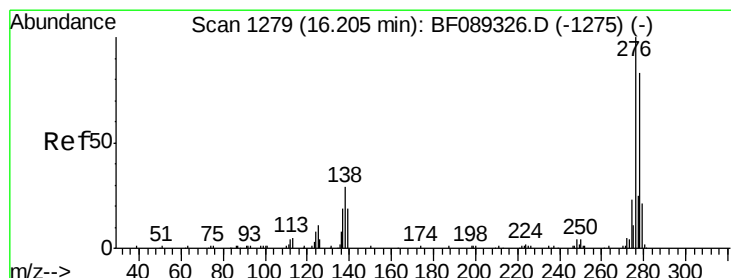
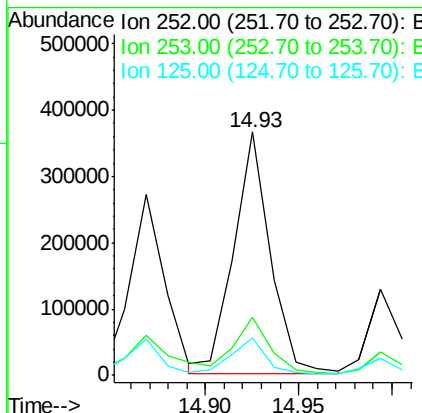
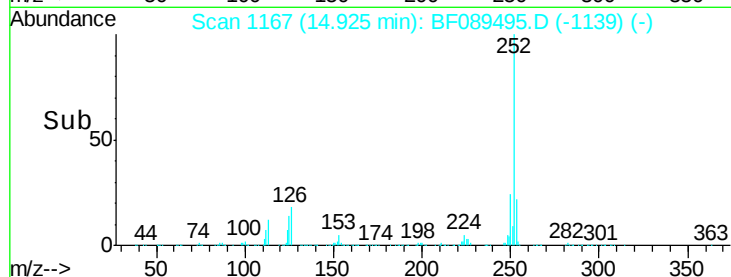
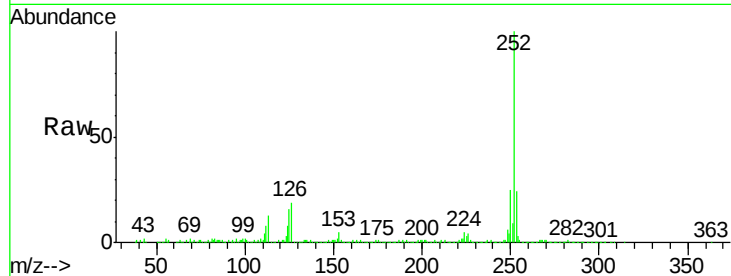
ClientSampleId :

SB-15-COMP

Tot Ion:	252	Resp:	495562
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.4	26.2
125	15.6	12.4	18.6

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#90

Dibenzo(a,h)anthracene

Concen: 23.04 ng

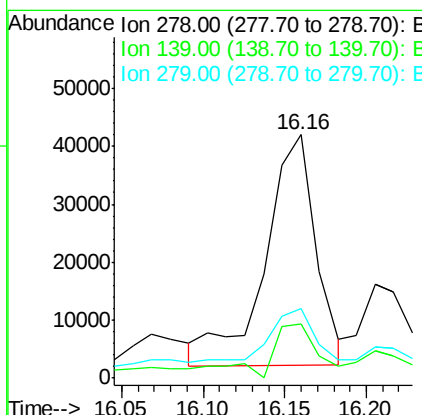
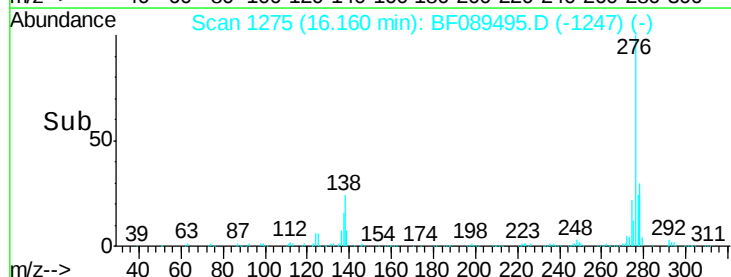
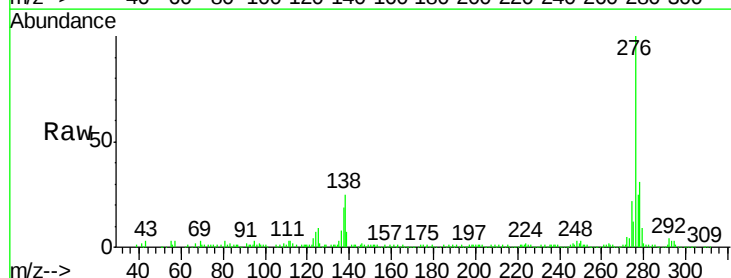
RT: 16.16 min Scan# 1275

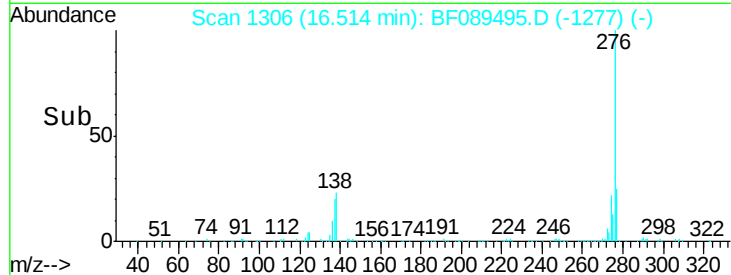
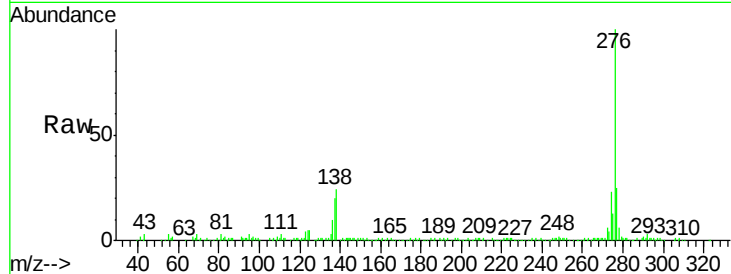
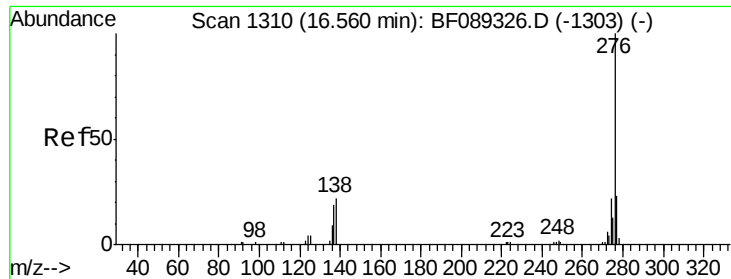
Delta R.T. 0.02 min

Lab File: BF089495.D

Acq: 1 Aug 2016 5:01

Tgt Ion:	278	Resp:	87096
Ion Ratio	Lower	Upper	
278	100		
139	22.5	16.3	24.5
279	28.6	19.1	28.7





#91
 Benzo(a,h,i)perylene
 Concen: 65.34 ng
 RT: 16.51 min Scan# 1306
 Delta R.T. 0.03 min
 Lab File: BF089495.D
 Acq: 1 Aug 2016 5:01

Tot Ion:	276	Resp:	242808
Ion Ratio	Lower	Upper	
276	100		
277	25.3	18.6	28.0
138	23.6	21.4	32.0

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Manual Integrations
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