

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073016\
 Data File : BF089441.D
 Acq On : 30 Jul 2016 7:10
 Operator : UM/SJ
 Sample : H4215-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Manual Integrations
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Quant Time: Aug 01 01:13:01 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 28 16:02:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.51	152	38970	20.00	ng	-0.03
21) Naphthalene-d8	7.80	136	131572	20.00	ng	-0.02
38) Acenaphthene-d10	9.54	164	52224	20.00	ng	-0.03
63) Phenanthrene-d10	11.02	188	92059	20.00	ng	-0.03
75) Chrysene-d12	13.65	240	90859	20.00	ng	-0.02
86) Perylene-d12	14.99	264	104386	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	239770	98.24	ng	-0.02
7) Phenol-d6	6.17	99	305053	94.58	ng	-0.03
23) Nitrobenzene-d5	7.08	82	185595	83.26	ng	-0.03
41) 2,4,6-Tribromophenol	10.33	330	42895	99.17	ng	-0.03
44) 2-Fluorobiphenyl	8.88	172	269859	75.83	ng	-0.03
78) Terphenyl-d14	12.59	244	218184	56.20	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.83	128	305553	46.90	ng	100
37) 2-Methylnaphthalene	8.51	142	123123	31.36	ng	96
45) 1,1'-Biphenyl	8.98	154	36522	8.21	ng	96
48) Acenaphthylene	9.40	152	114420	21.75	ng	98
49) Dimethylphthalate	9.28	163	81606	20.53	ng	99
51) Acenaphthene	9.58	154	191264	62.27	ng	100
54) Dibenzofuran	9.75	168	190283	45.46	ng	98
57) Fluorene	10.09	166	258583	70.77	ng	99
70) Phenanthrene	11.05	178	955007	201.14	ng	99
71) Anthracene	11.10	178	360206	68.24	ng	100
72) Carbazole	11.26	167	67398	15.17	ng	97
74) Fluoranthene	12.24	202	1401510	280.62	ng	97
77) Pyrene	12.46	202	1151850	167.27	ng	97
80) Benzo(a)anthracene	13.63	228	804090m	156.82	ng	
82) Chrysene	13.68	228	649400	118.98	ng	96
85) Indeno(1,2,3-cd)pyrene	16.18	276	314638	81.08	ng	99
87) Benzo(b)fluoranthene	14.65	252	1038167m	160.15	ng	
88) Benzo(k)fluoranthene	14.66	252	146219m	24.53	ng	
89) Benzo(a)pyrene	14.95	252	601956	103.51	ng	96
90) Dibenzo(a,h)anthracene	16.18	278	96348	21.03	ng	# 75
91) Benzo(g,h,i)perylene	16.54	276	267375	59.38	ng	98

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

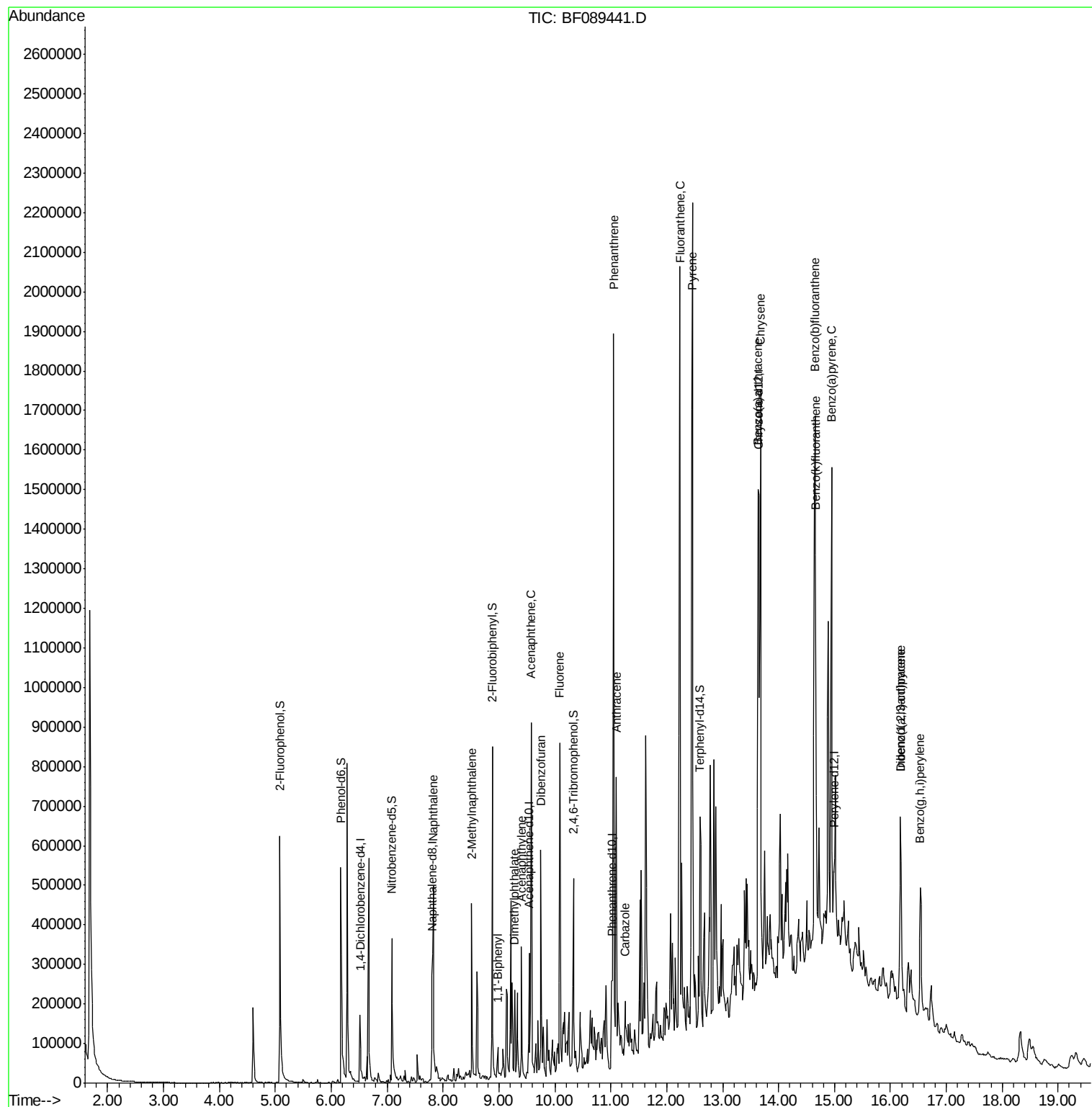
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073016\
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Misc :
ALS Vial : 26 Sample Multiplier: 1

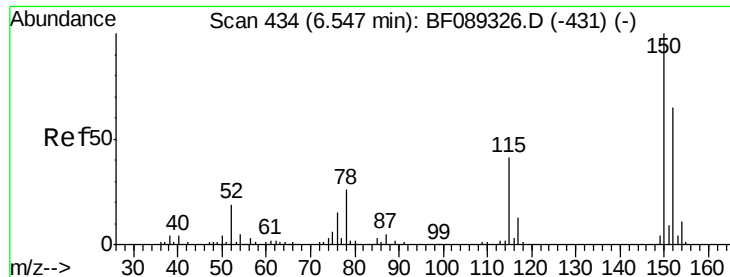
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Aug 01 01:13:01 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 28 16:02:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.51 min Scan# 431

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

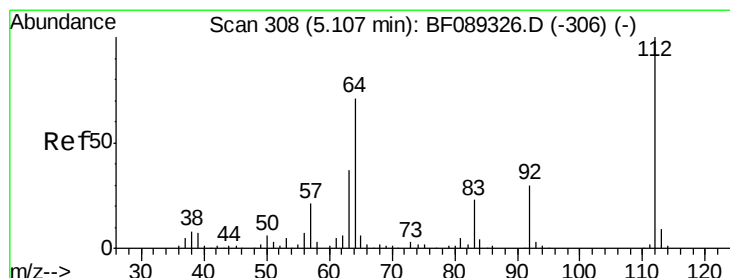
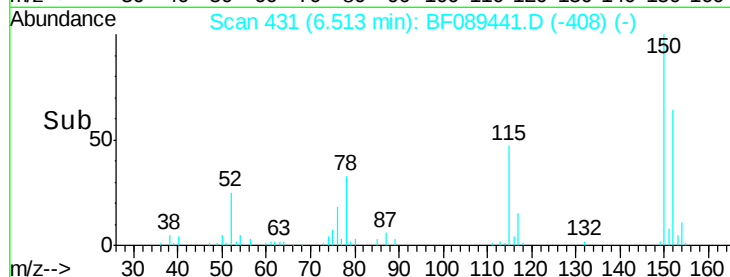
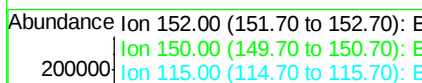
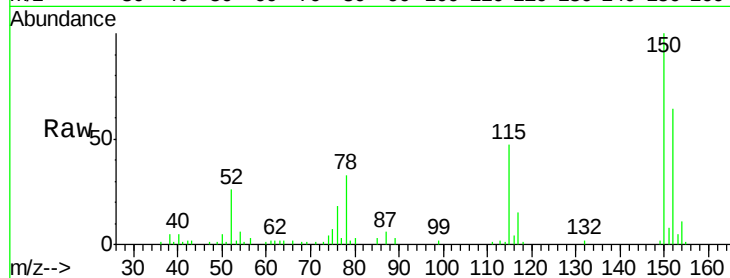
ClientSampleId :

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Tgt Ion:	152	Resp:	38970
Ion Ratio	Lower	Upper	
152	100		
150	155.7	129.5	194.3
115	73.5	51.4	77.2

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#5

2-Fluorophenol

Concen: 98.24 ng

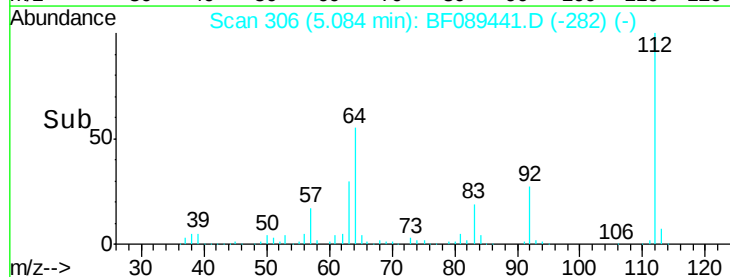
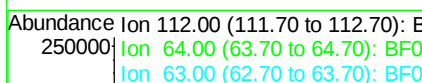
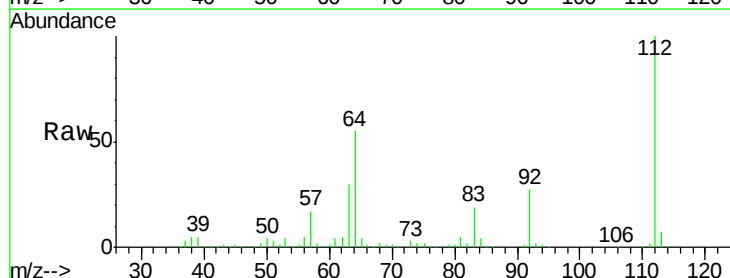
RT: 5.08 min Scan# 306

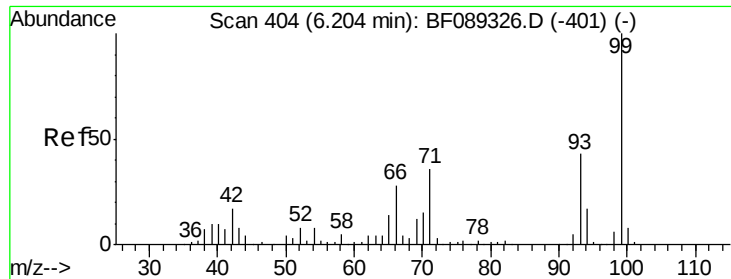
Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Tgt Ion:	112	Resp:	239770
Ion Ratio	Lower	Upper	
112	100		
64	55.2	55.0	82.6
63	29.8	29.4	44.2





#7

Phenol-d6

Concen: 94.58 ng

RT: 6.17 min Scan# 401

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

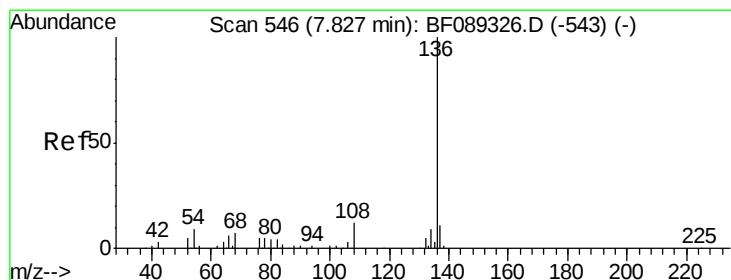
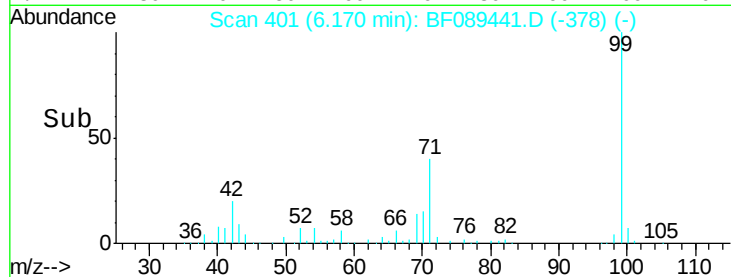
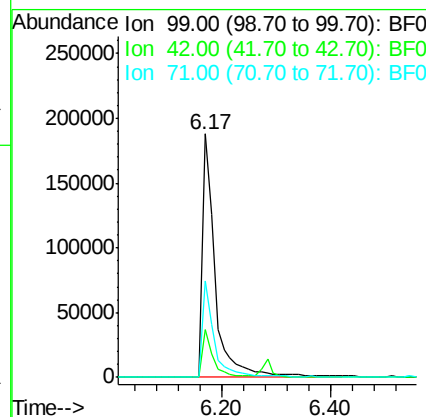
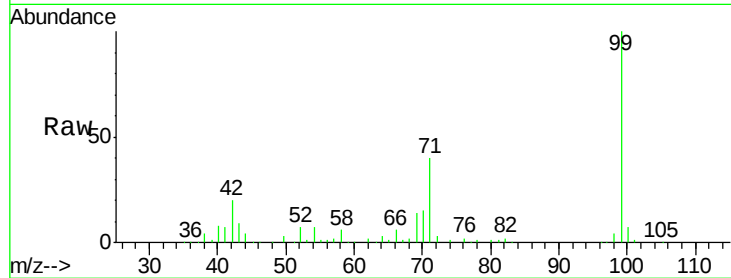
ClientSampleId :

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Tgt Ion:	99	Resp:	305053
Ion Ratio	Lower	Upper	
99	100		
42	19.6	13.6	20.4
71	39.6	29.4	44.2

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#21

Naphthalene-d8

Concen: 20.00 ng

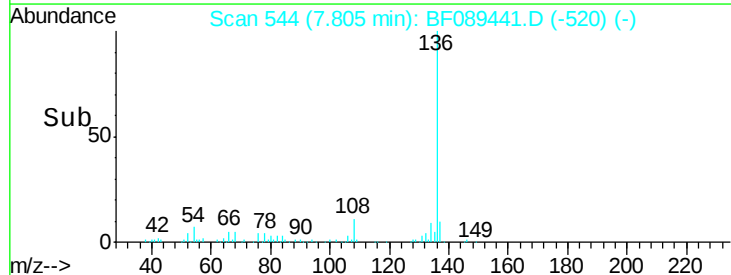
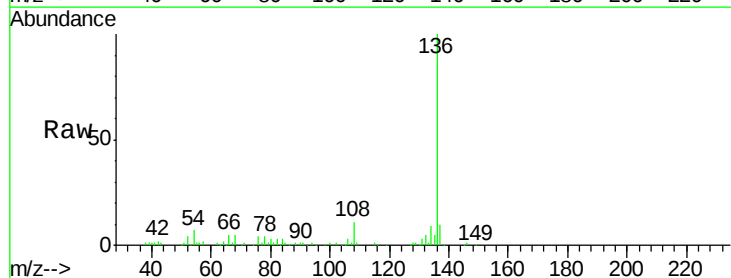
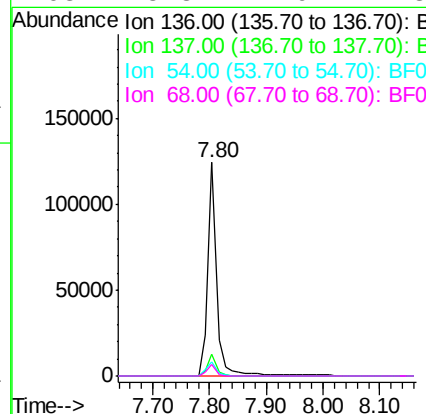
RT: 7.80 min Scan# 544

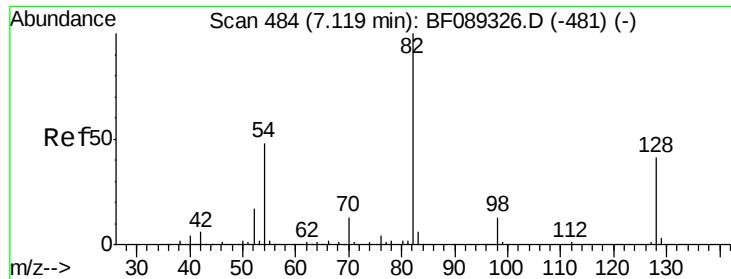
Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Tgt Ion:	136	Resp:	131572
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.6	13.0
54	6.7	7.0	10.4
68	5.3	4.9	7.3





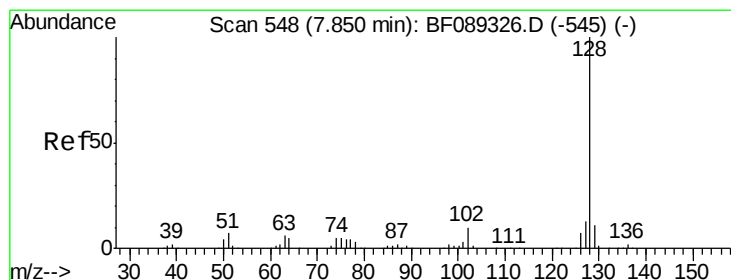
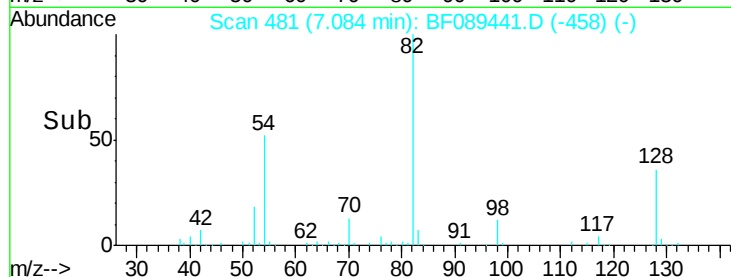
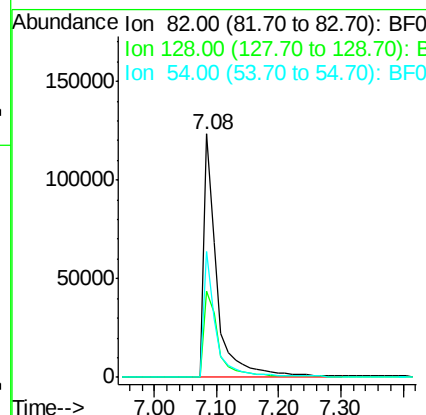
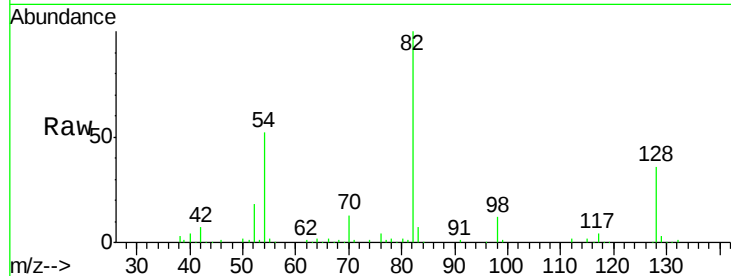
#23
Nitrobenzene-d5
Concen: 83.26 ng
RT: 7.08 min Scan# 481
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	35.6	32.5	48.7
54	51.5	38.8	58.2

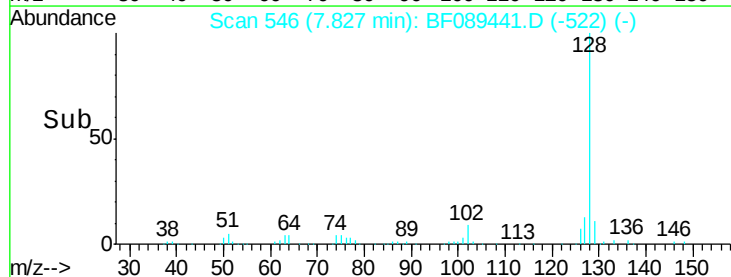
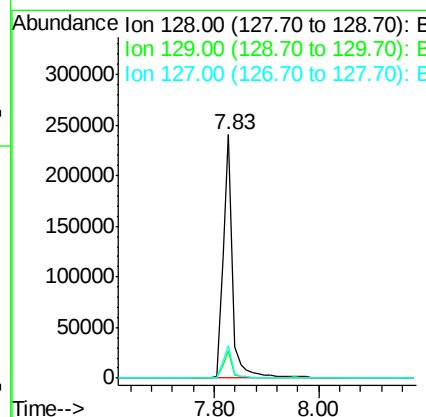
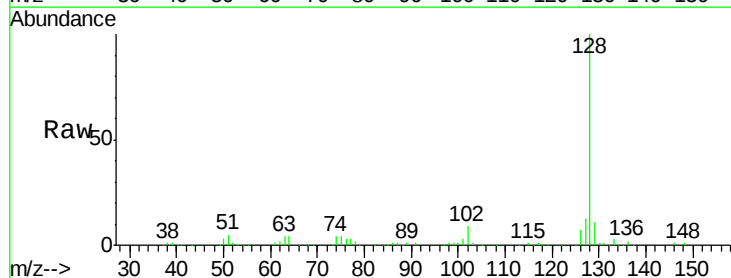
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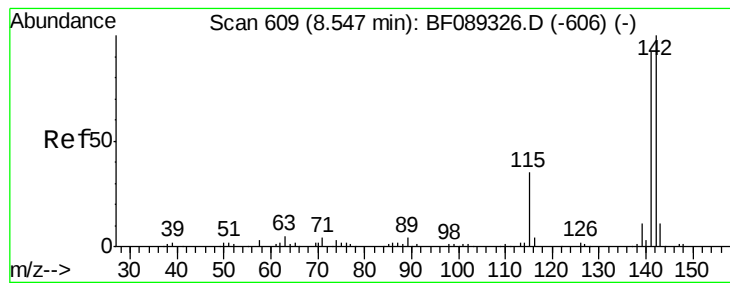
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#31
Naphthalene
Concen: 46.90 ng
RT: 7.83 min Scan# 546
Delta R.T. -0.02 min
Lab File: BF089441.D
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Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.1	8.8	13.2
127	13.2	10.8	16.2





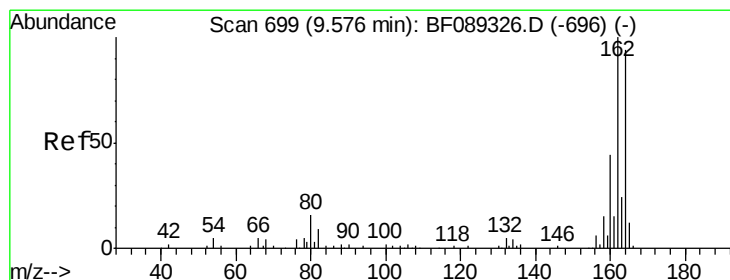
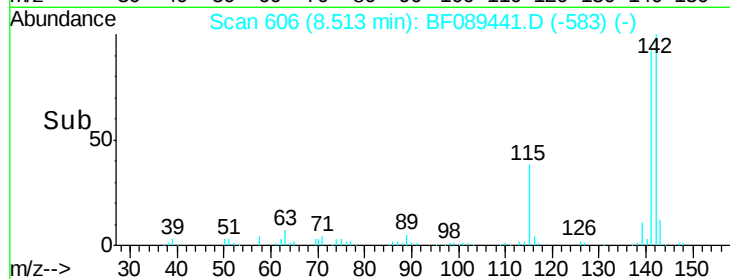
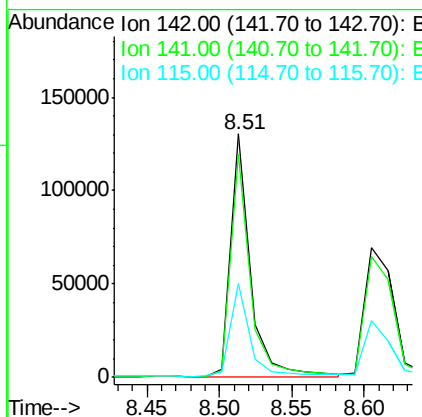
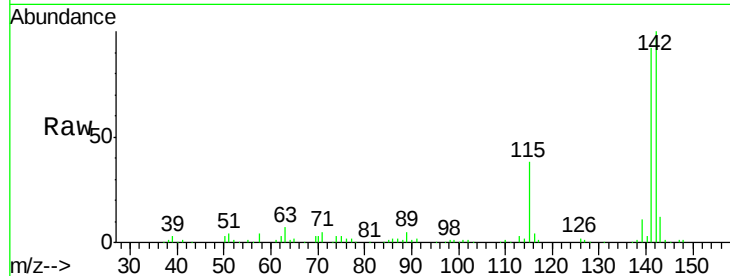
#37
2-Methylnaphthalene
Concen: 31.36 ng
RT: 8.51 min Scan# 606
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	91.6	70.9	106.3
115	38.4	27.6	41.4

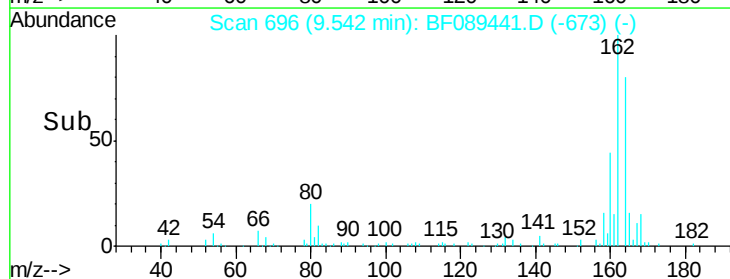
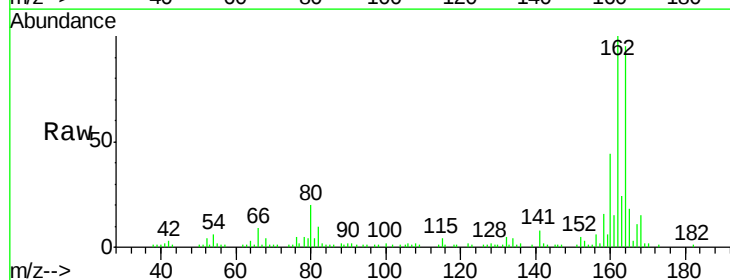
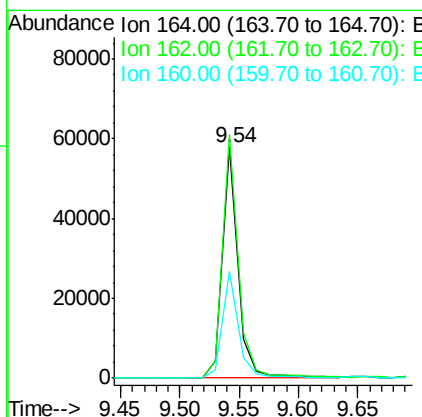
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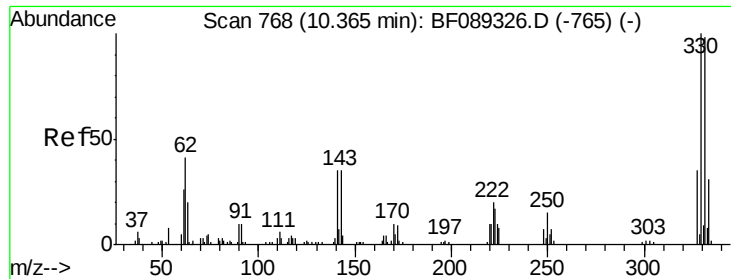
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.54 min Scan# 696
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
162	105.5	83.7	125.5
160	46.3	37.8	56.6





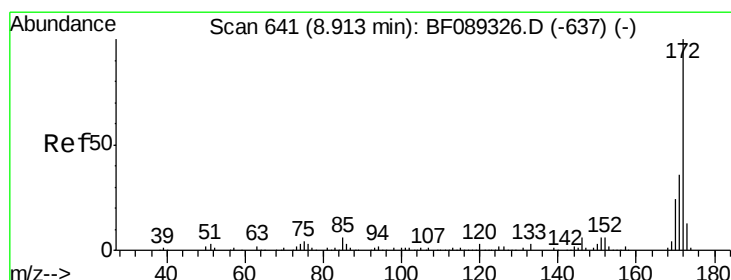
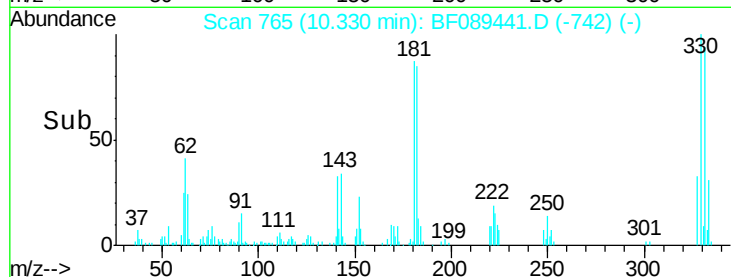
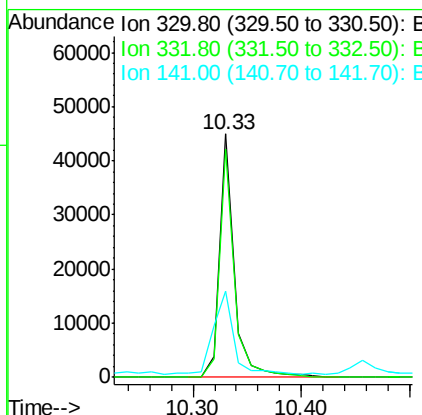
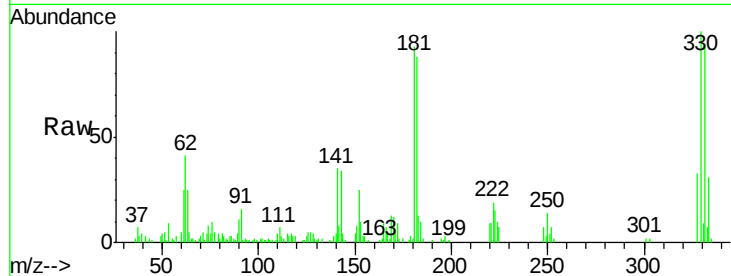
#41
 2,4,6-Tribromophenol
 Concen: 99.17 ng
 RT: 10.33 min Scan# 765
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	42895		
332	94.0	76.8	115.2	
141	48.2	37.3	55.9	

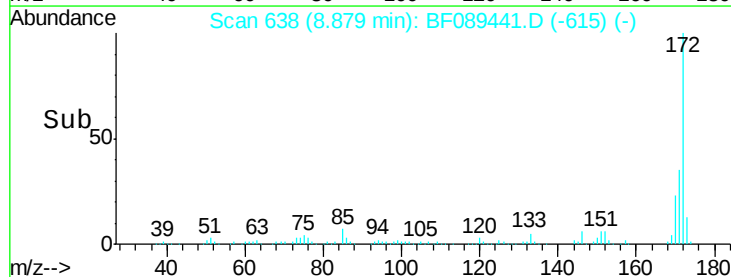
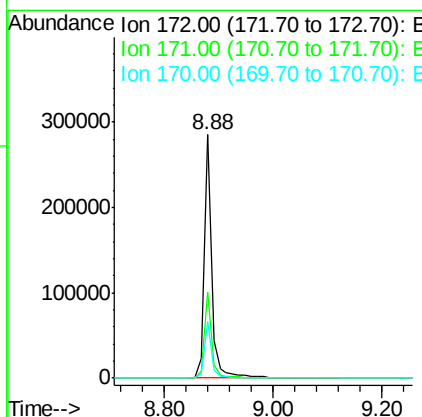
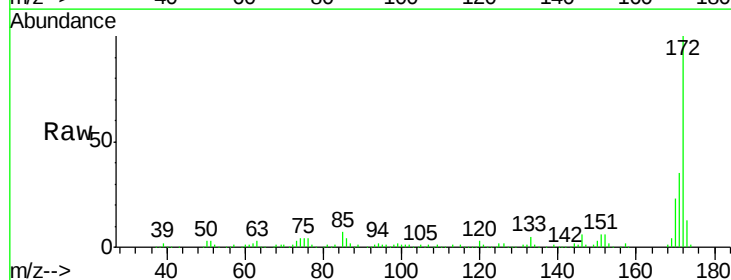
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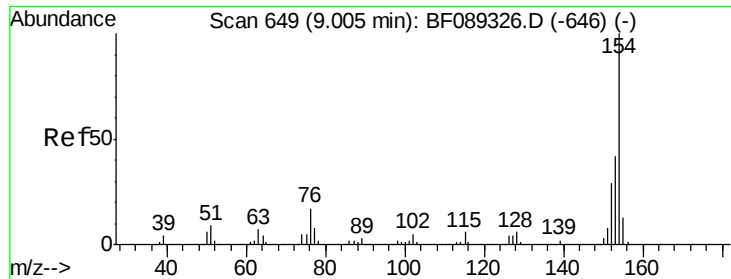
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#44
 2-Fluorobiphenyl
 Concen: 75.83 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	269859		
171	35.2	29.2	43.8	
170	23.2	19.2	28.8	





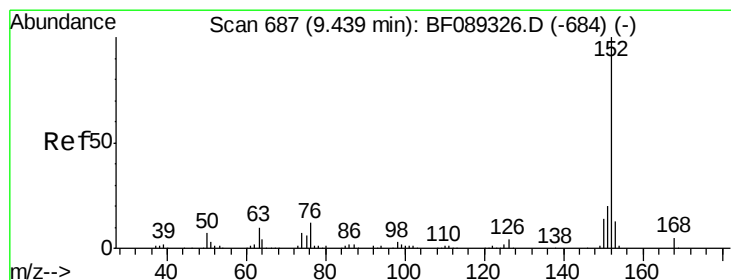
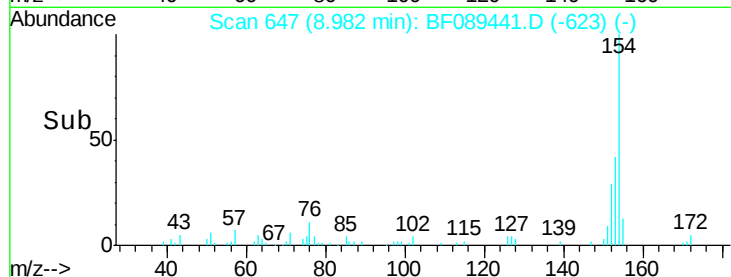
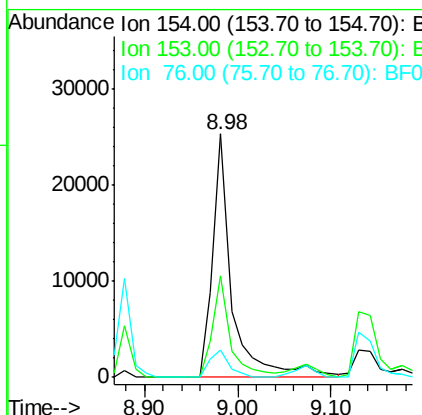
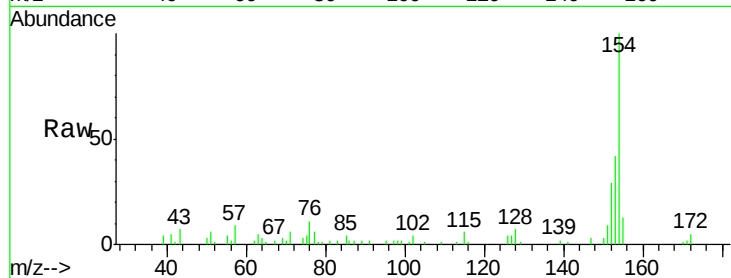
#45
1,1'-Biphenyl
Concen: 8.21 ng
RT: 8.98 min Scan# 647
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.8	21.0	61.0
76	11.2	0.0	36.6

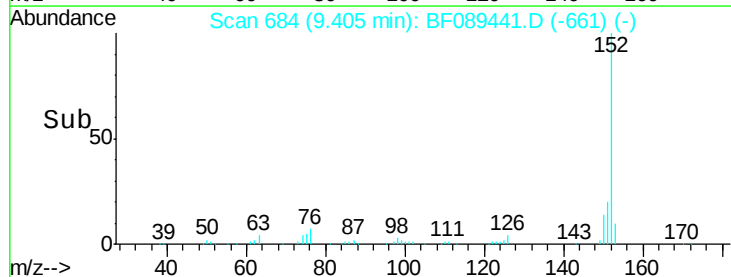
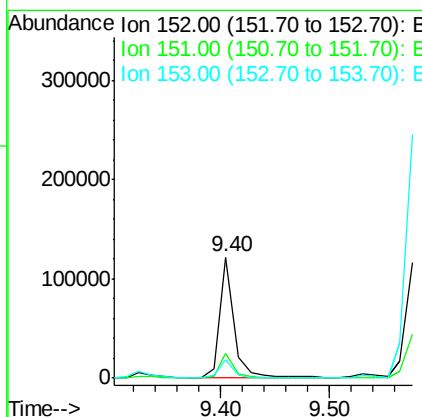
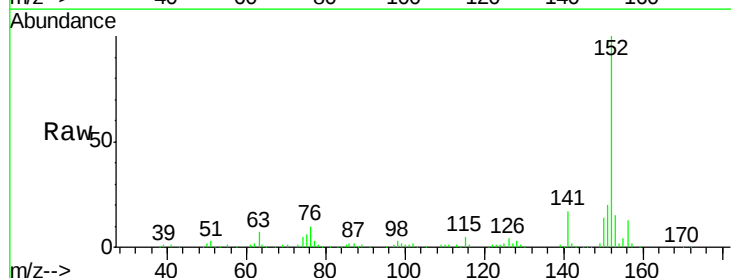
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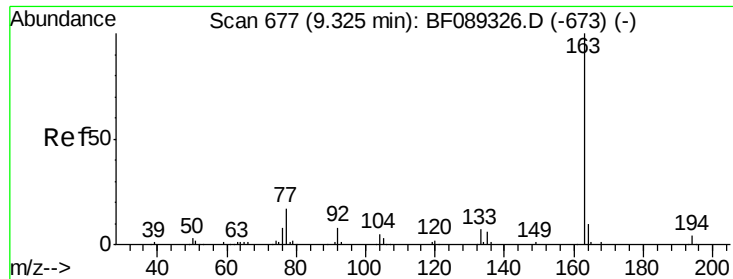
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#48
Acenaphthylene
Concen: 21.75 ng
RT: 9.40 min Scan# 684
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	14.8	10.2	15.4





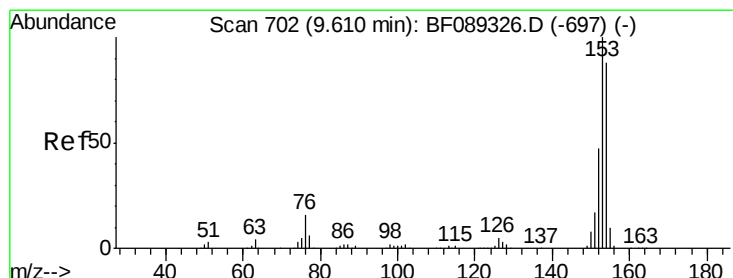
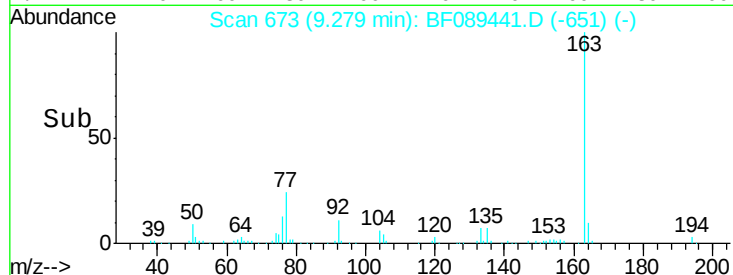
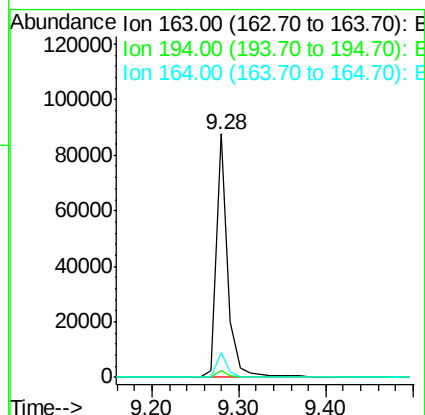
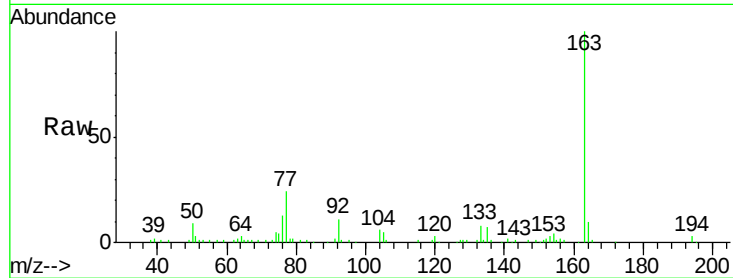
#49
Dimethylphthalate
Concen: 20.53 ng
RT: 9.28 min Scan# 673
Delta R.T. -0.05 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	81606		
194	3.0		2.8	4.2
164	10.0		7.8	11.8

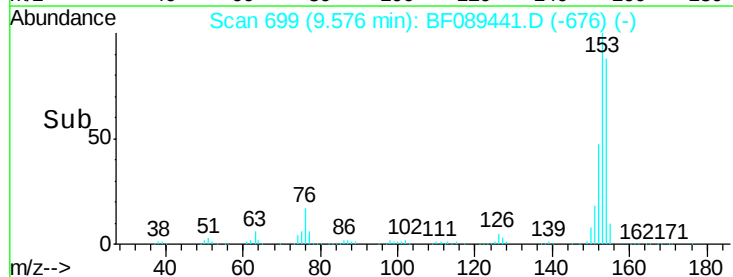
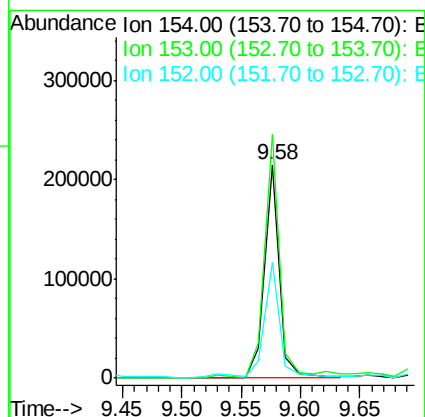
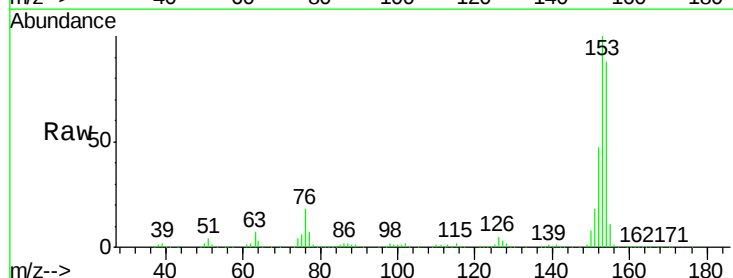
Manual Integrations
APPROVED

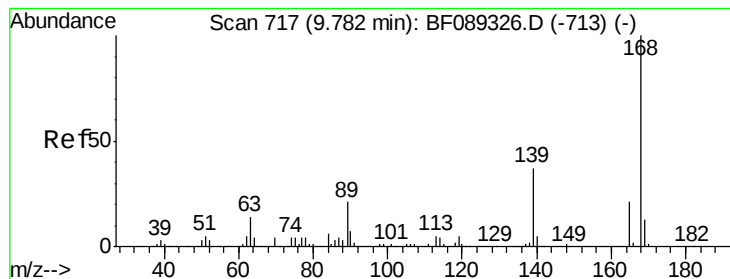
sohil
8/1/2016 6:59:59 PM



#51
Acenaphthene
Concen: 62.27 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.03 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	191264		
153	114.2		91.4	137.2
152	54.1		43.8	65.6





#54

Dibenzofuran

Concen: 45.46 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

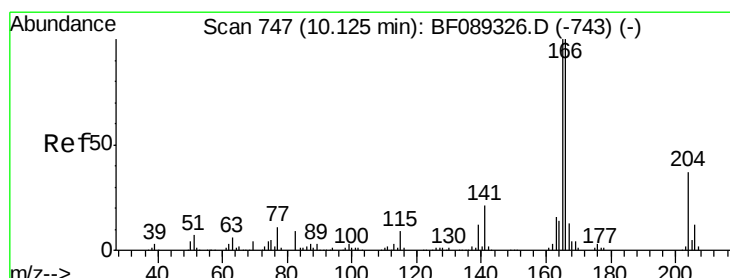
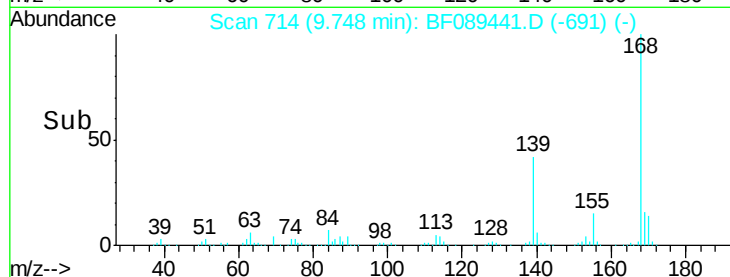
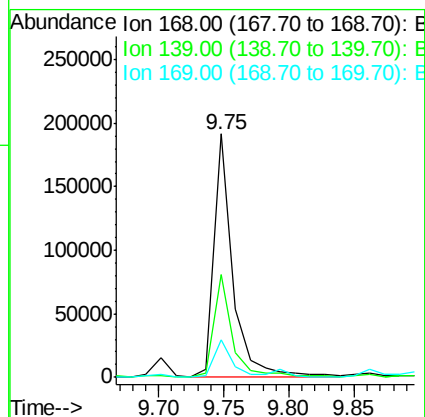
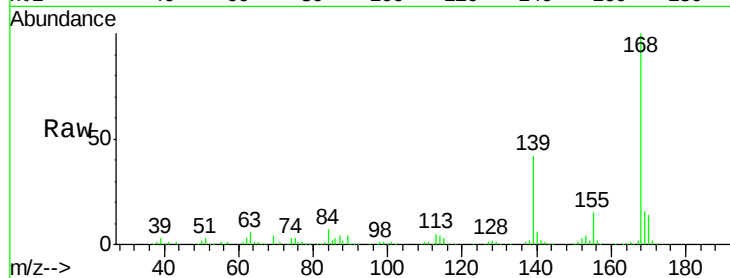
ClientSampleId :

SB-15-COMP

Tgt Ion:	168	Resp:	190283
Ion Ratio	Lower	Upper	
168	100		
139	42.3	33.7	50.5
169	15.6	10.7	16.1

Manual Integrations
APPROVED

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#57

Fluorene

Concen: 70.77 ng

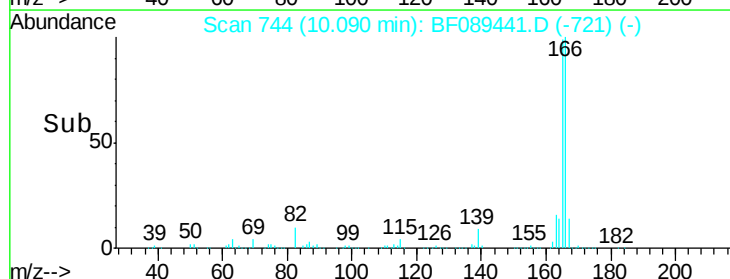
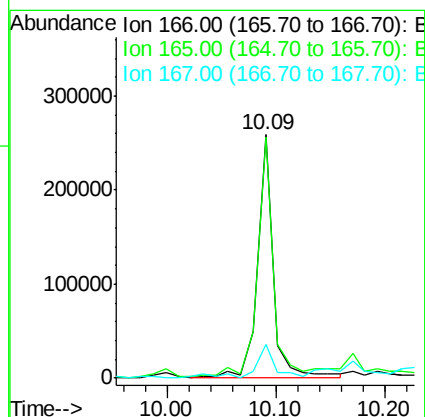
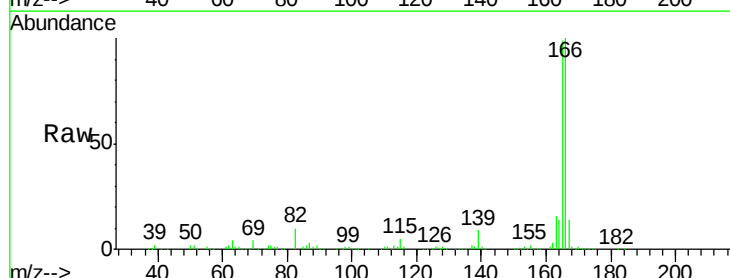
RT: 10.09 min Scan# 744

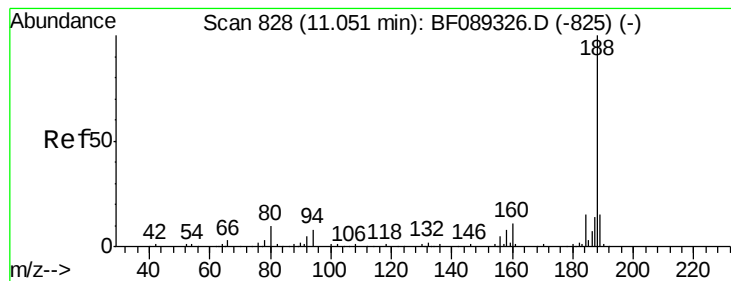
Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Tgt Ion:	166	Resp:	258583
Ion Ratio	Lower	Upper	
166	100		
165	99.3	79.0	118.4
167	13.9	10.2	15.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.02 min Scan# 825

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampled :

SB-15-COMP

Tgt Ion:188 Resp: 92059

Ion Ratio Lower Upper

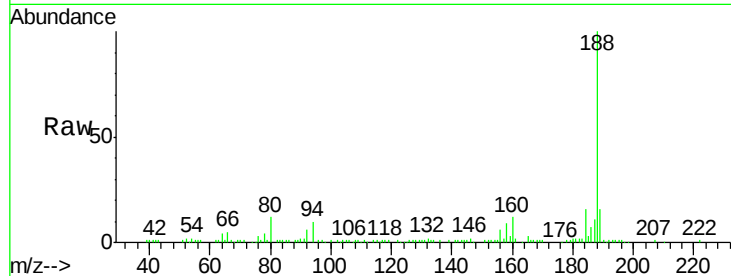
188 100

94 10.4 6.5 9.7#

80 12.1 7.2 10.8#

Manual Integrations
APPROVED

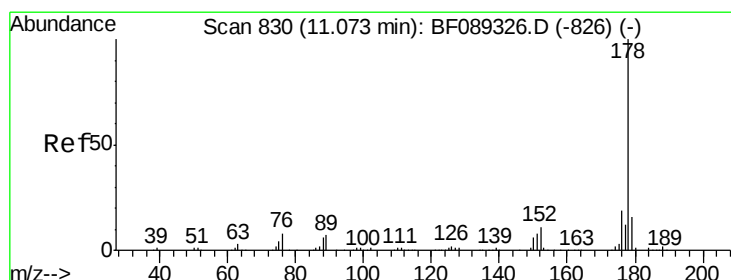
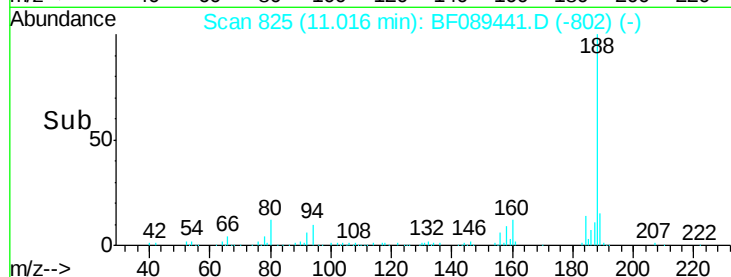
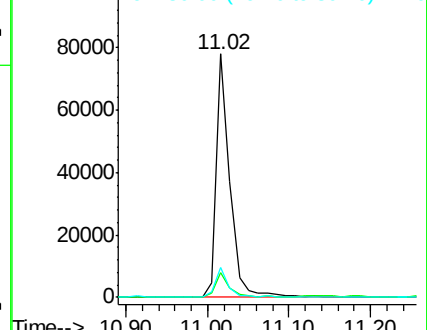
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 201.14 ng

RT: 11.05 min Scan# 828

Delta R.T. -0.02 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

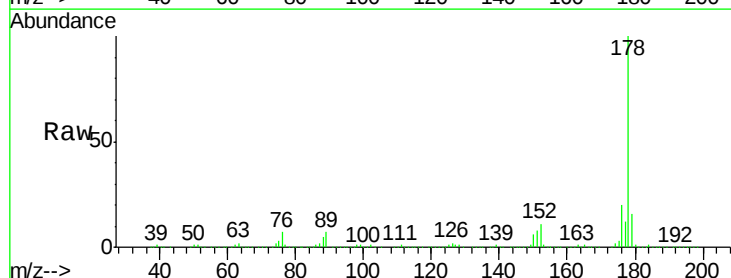
Tgt Ion:178 Resp: 955007

Ion Ratio Lower Upper

178 100

176 19.8 15.5 23.3

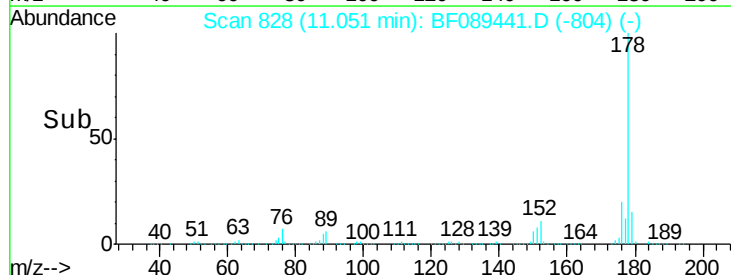
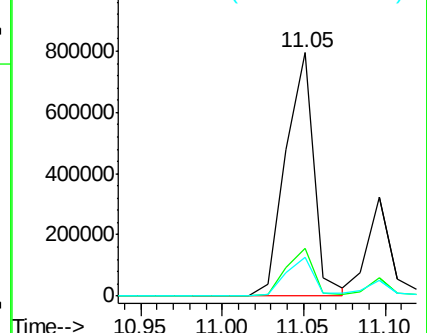
179 15.7 12.3 18.5

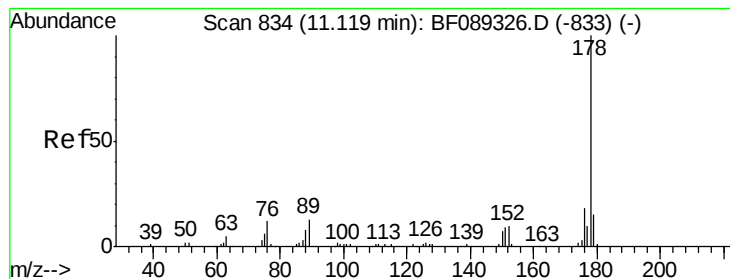


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





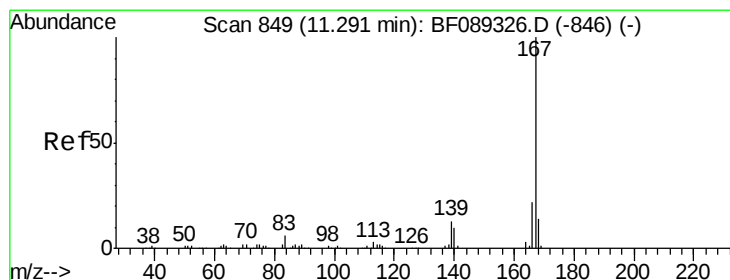
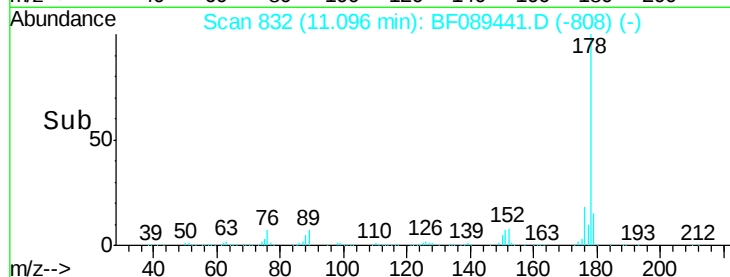
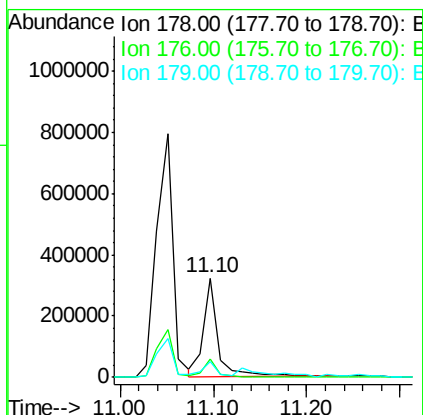
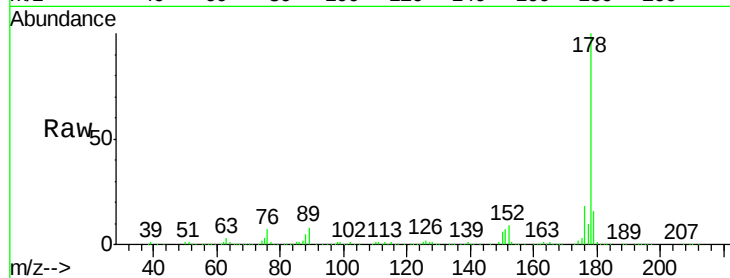
#71
 Anthracene
 Concen: 68.24 ng
 RT: 11.10 min Scan# 832
 Delta R.T. -0.02 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.6	12.6	18.8

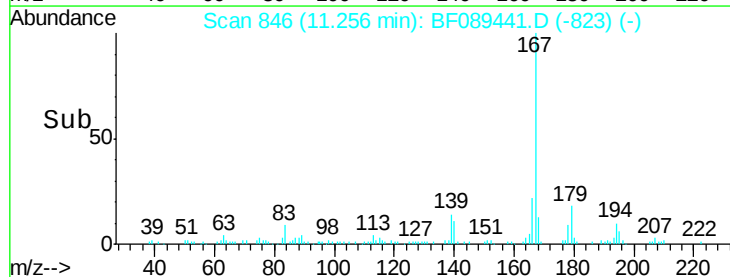
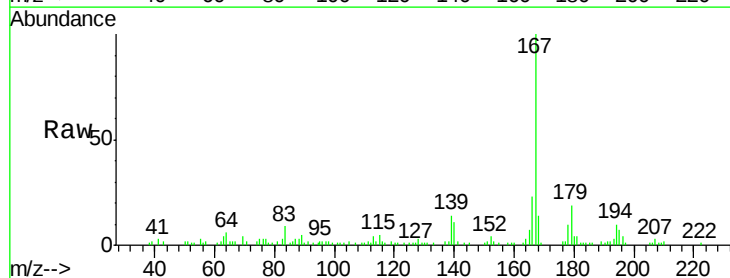
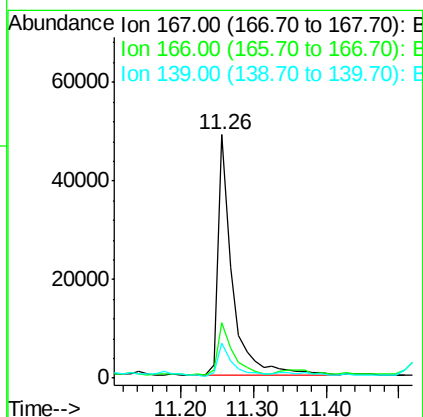
Manual Integrations
 APPROVED

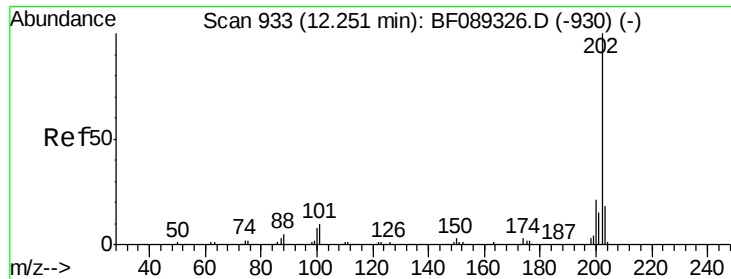
sohil
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#72
 Carbazole
 Concen: 15.17 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.03 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.6	26.4
139	14.5	10.1	15.1





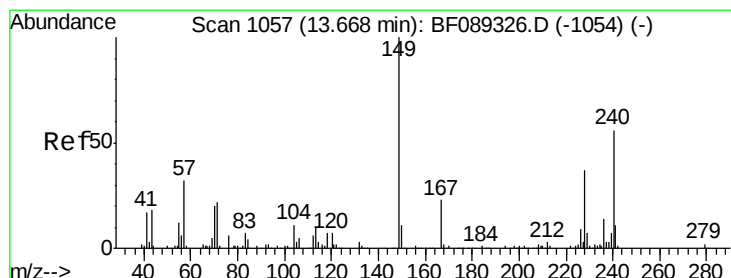
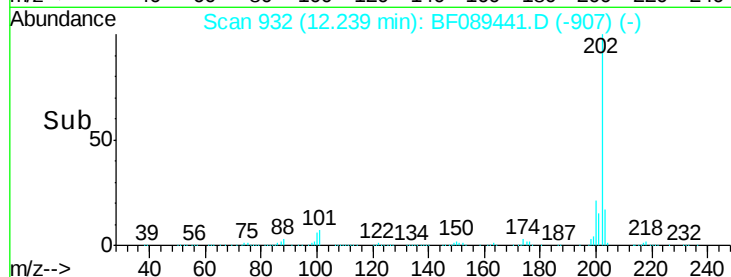
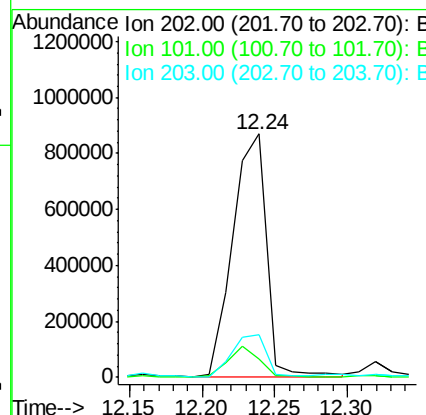
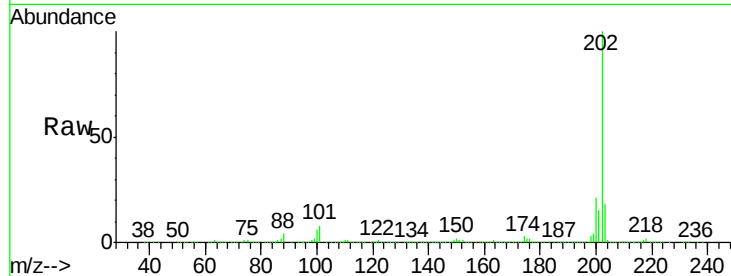
#74
Fluoranthene
Concen: 280.62 ng
RT: 12.24 min Scan# 932
Delta R.T. -0.01 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.5	0.0	29.9
203	17.6	0.0	37.3

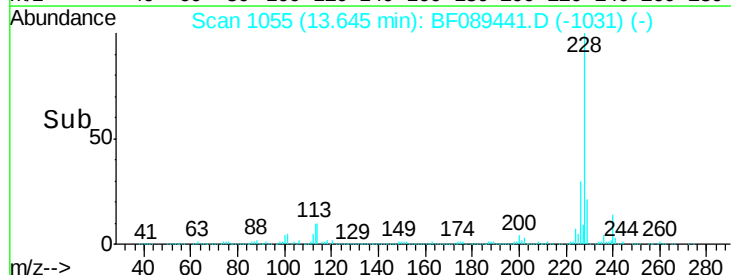
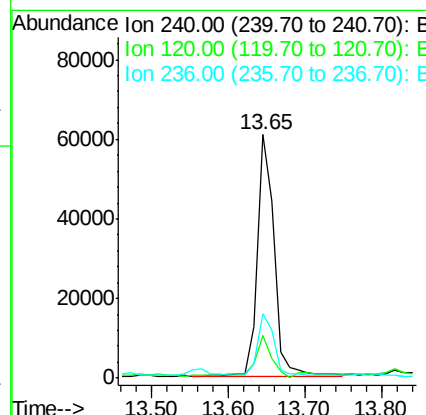
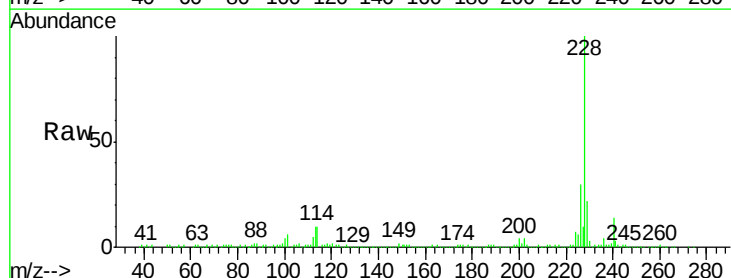
Manual Integrations
APPROVED

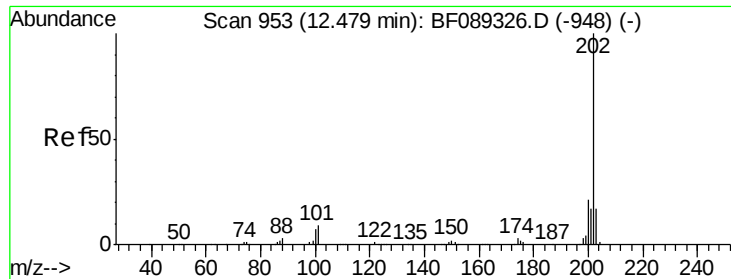
sohil
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.65 min Scan# 1055
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.3	9.1	13.7#
236	26.3	20.6	30.8





#77

Pyrene

Concen: 167.27 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

Instrument :

BNA_F

ClientSampleId :

SB-15-COMP

Tgt Ion:202 Resp: 1151850

Ion Ratio Lower Upper

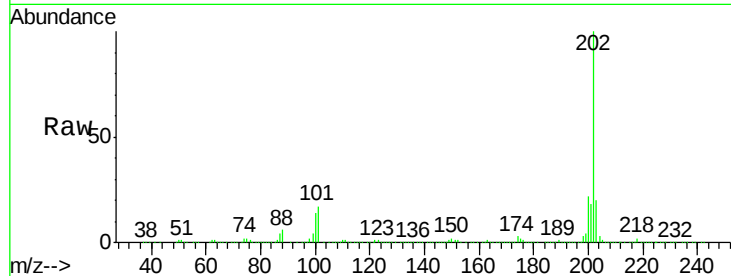
202 100

200 22.1 16.9 25.3

203 19.7 14.0 21.0

Manual Integrations
APPROVED

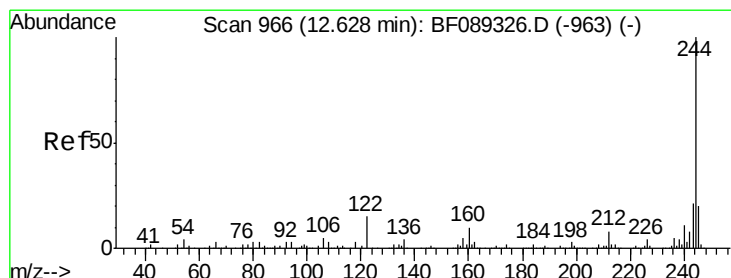
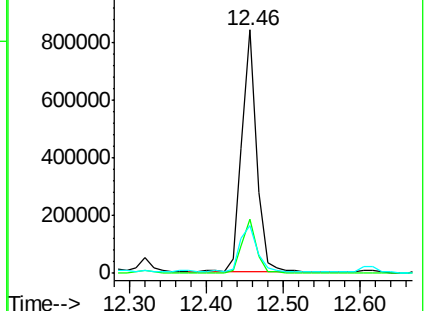
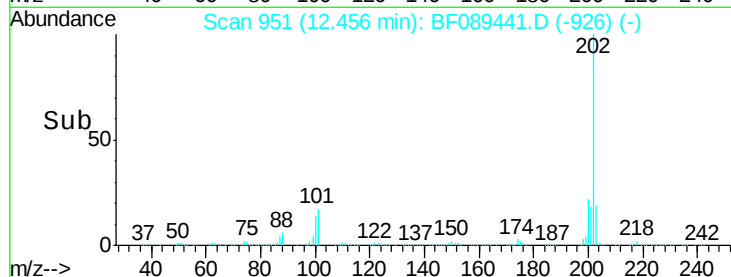
sohil
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 56.20 ng

RT: 12.59 min Scan# 963

Delta R.T. -0.03 min

Lab File: BF089441.D

Acq: 30 Jul 2016 7:10

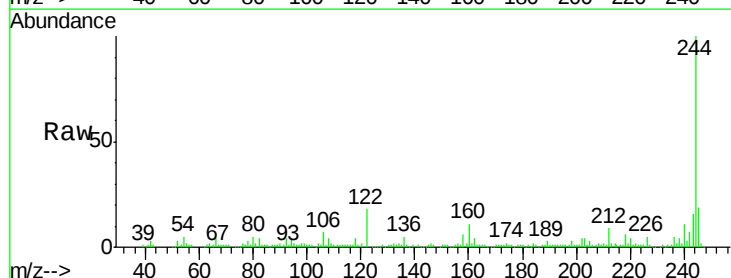
Tgt Ion:244 Resp: 218184

Ion Ratio Lower Upper

244 100

212 8.6 6.5 9.7

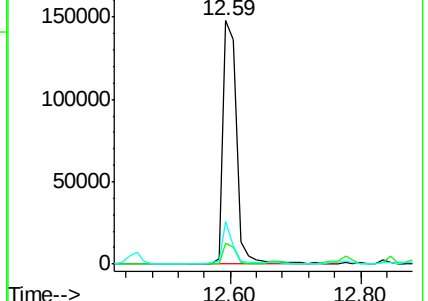
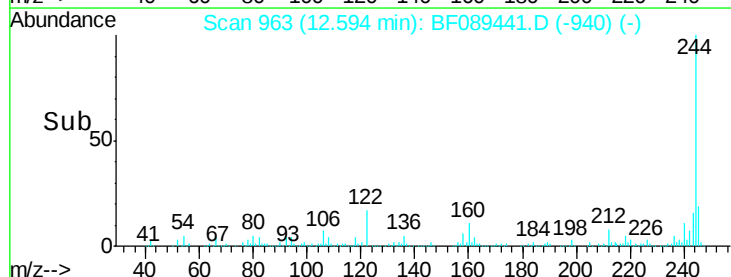
122 17.6 11.4 17.0#

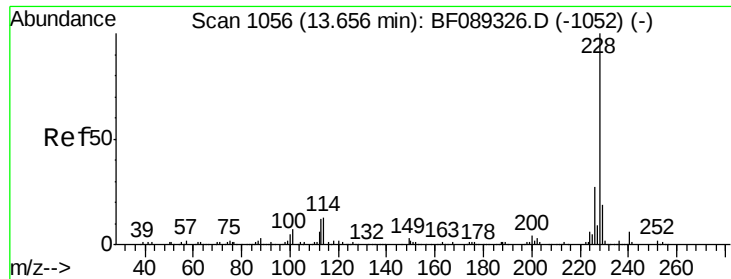


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





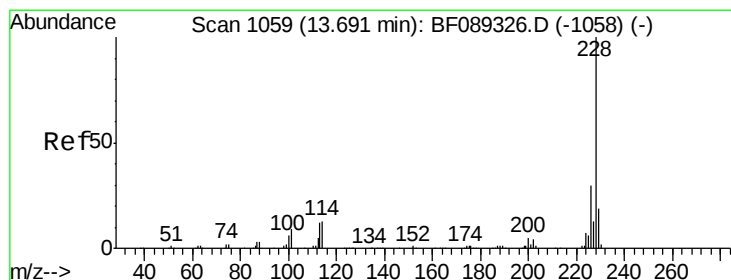
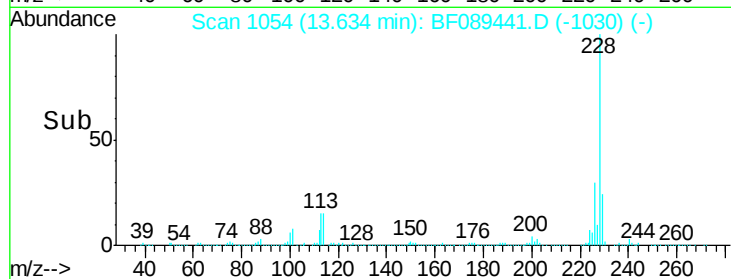
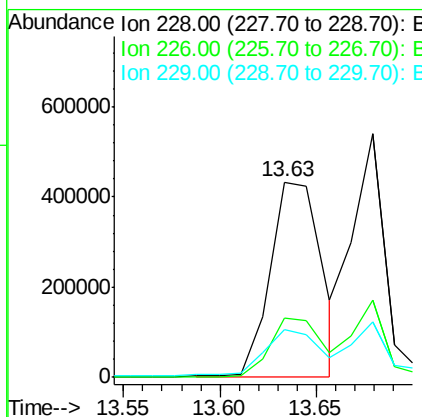
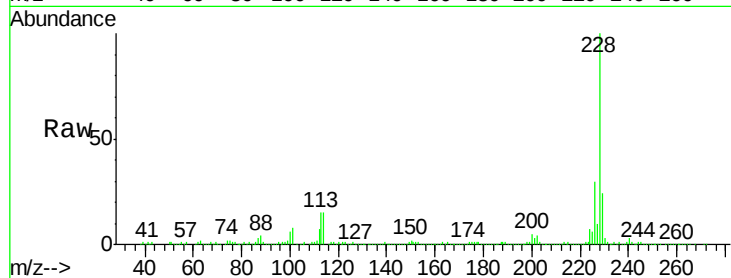
#80
Benzo(a)anthracene
Concen: 156.82 ng m
RT: 13.63 min Scan# 1054
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	21.4	32.2
229	24.4	15.9	23.9

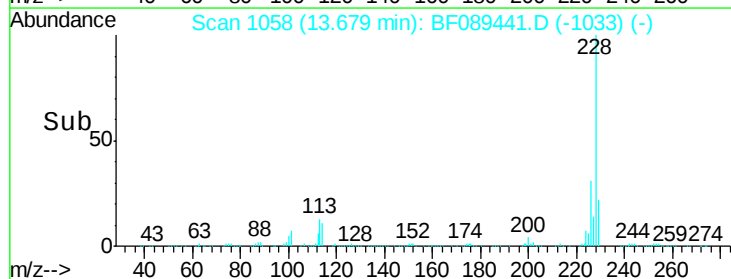
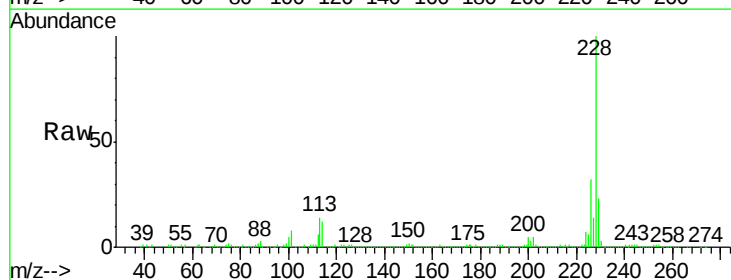
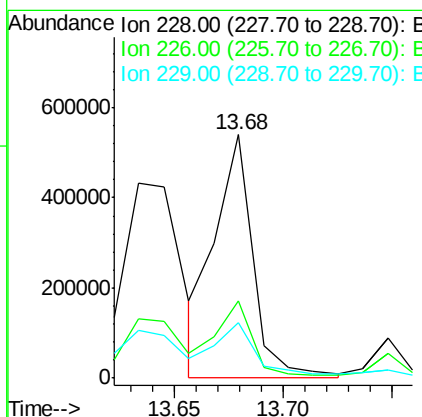
Manual Integrations
APPROVED

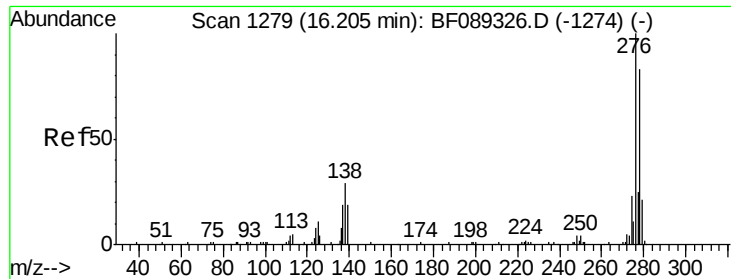
sohil
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#82
Chrysene
Concen: 118.98 ng
RT: 13.68 min Scan# 1058
Delta R.T. -0.01 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.2	36.2
229	22.9	15.9	23.9





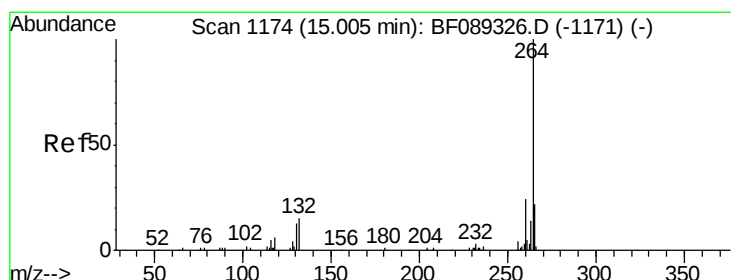
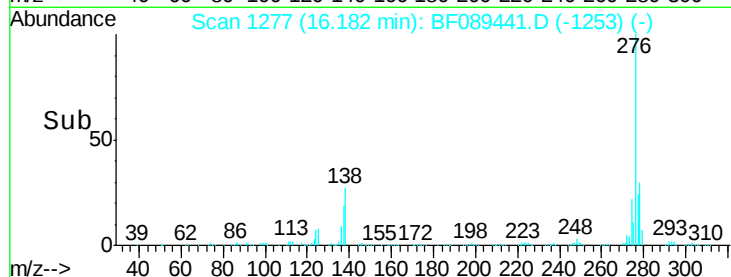
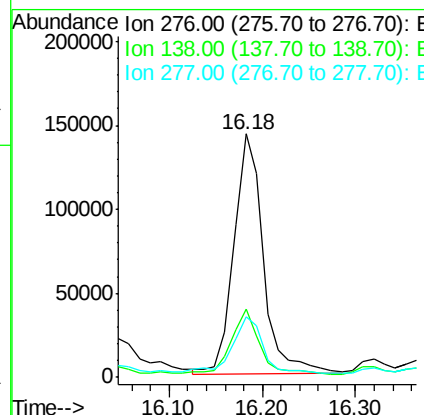
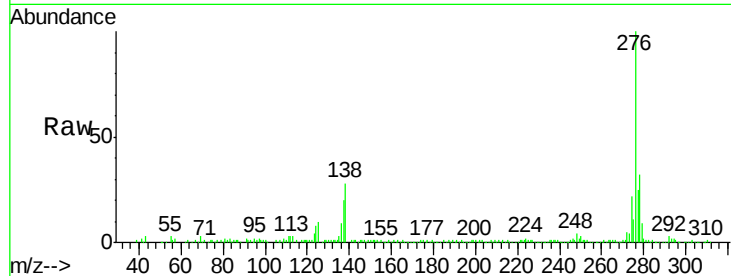
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 81.08 ng
 RT: 16.18 min Scan# 1277
 Delta R.T. -0.02 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.0	34.4
277	25.5	20.2	30.4

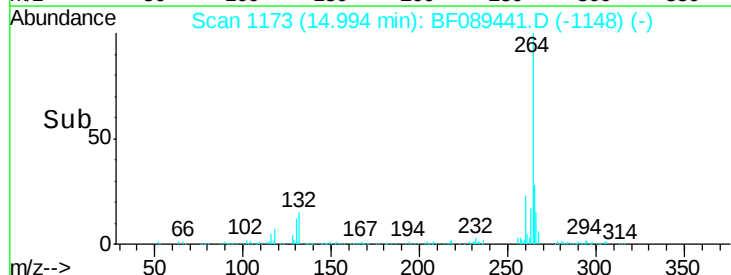
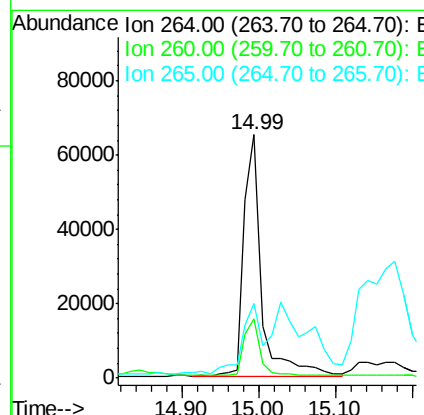
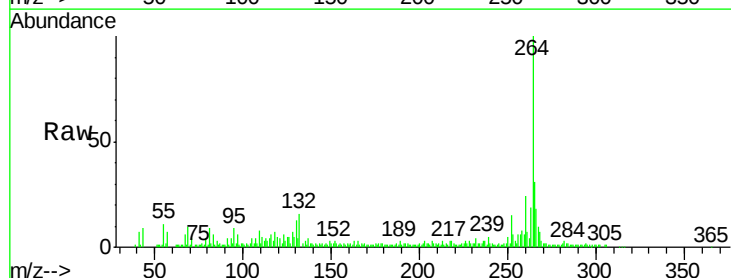
Manual Integrations
 APPROVED

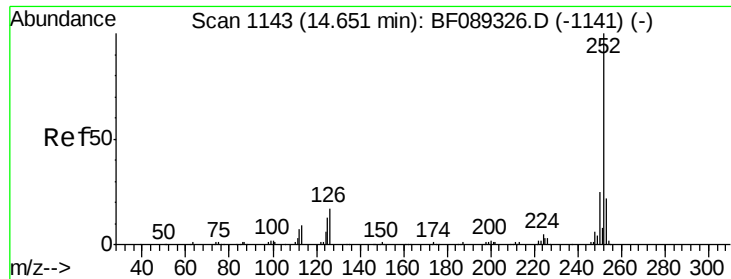
sohil
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.99 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.4
265	30.9	17.5	26.3





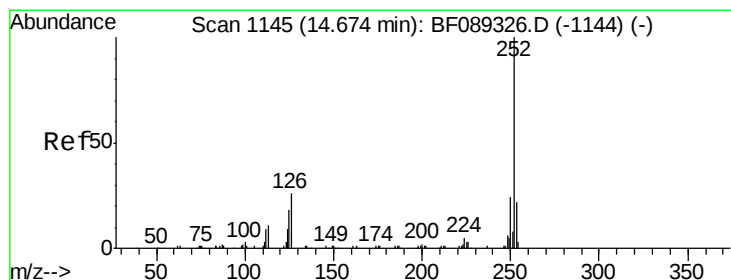
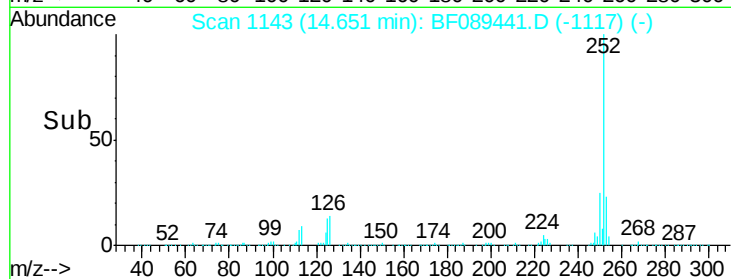
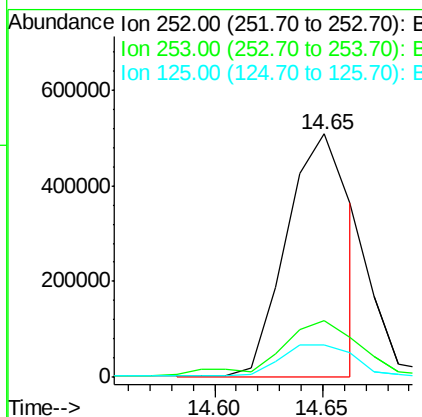
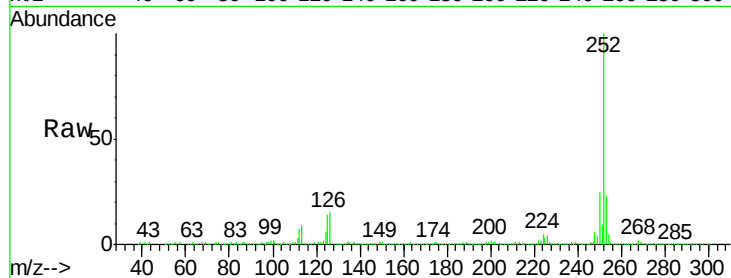
#87
Benzo(b)fluoranthene
Concen: 160.15 ng m
RT: 14.65 min Scan# 1143
Delta R.T. 0.00 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion:252 Resp: 1038167
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 13.6 9.7 14.5

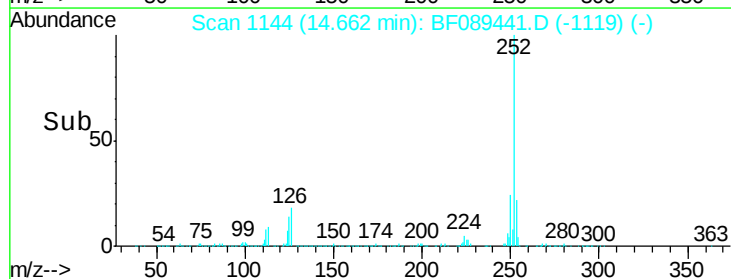
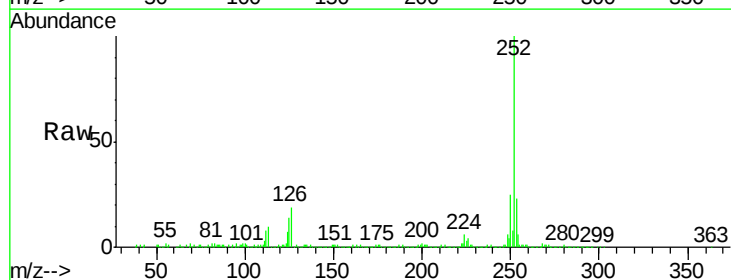
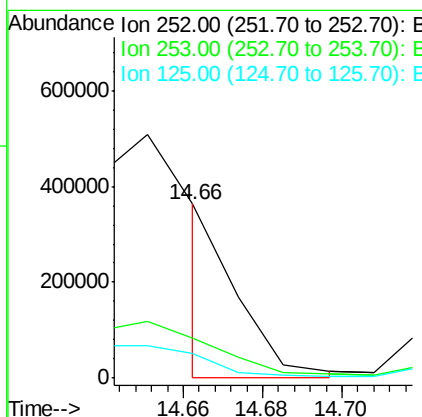
Manual Integrations
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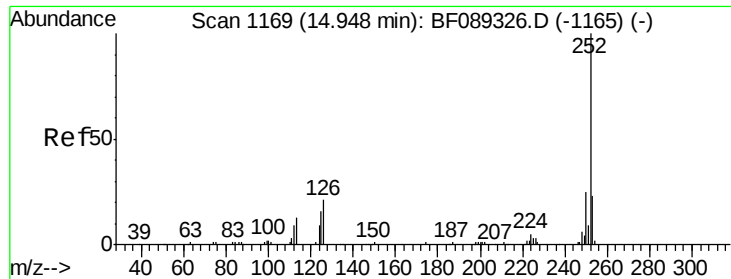
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#88
Benzo(k)fluoranthene
Concen: 24.53 ng m
RT: 14.66 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion:252 Resp: 146219
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 14.2 10.7 16.1





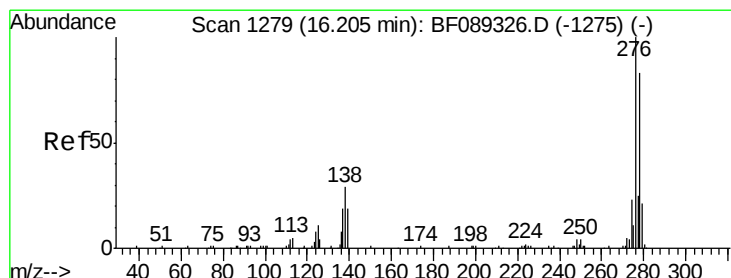
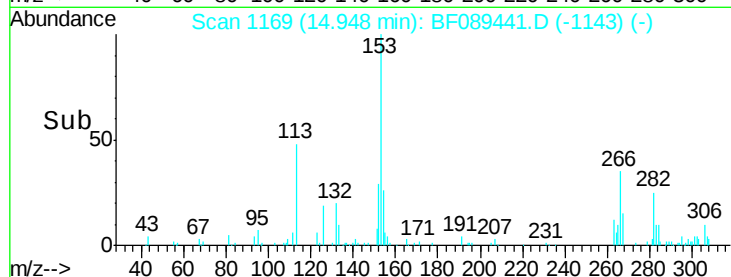
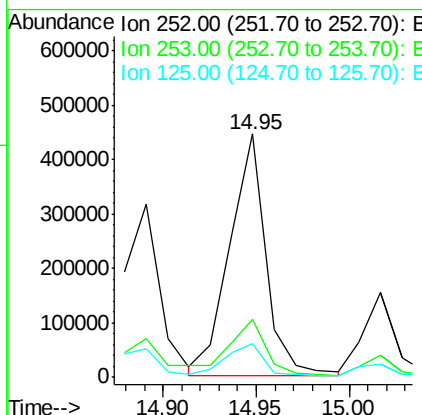
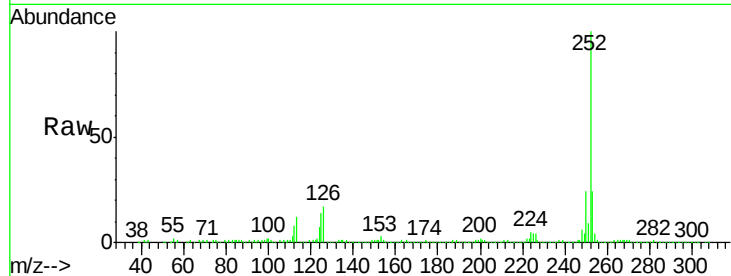
#89
Benzo(a)pyrene
Concen: 103.51 ng
RT: 14.95 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Instrument :
BNA_F
ClientSampleId :
SB-15-COMP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.2
125	14.1	12.4	18.6

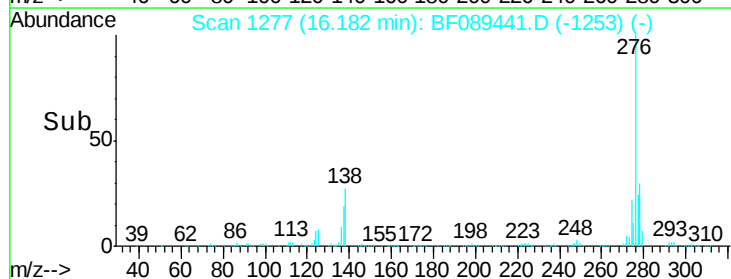
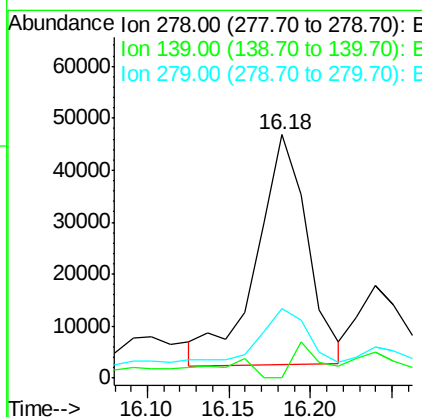
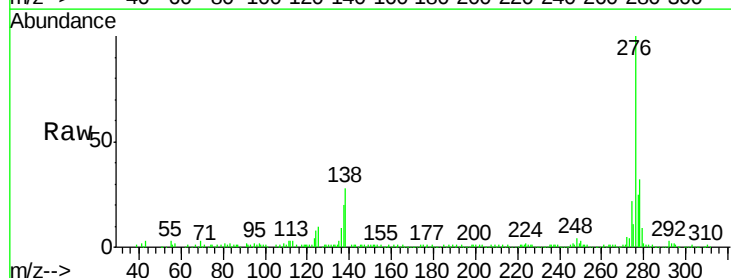
Manual Integrations
APPROVED

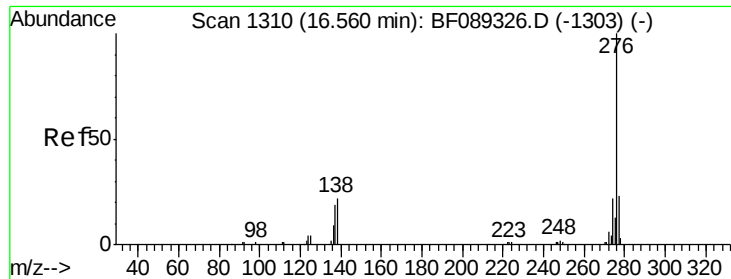
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#90
Dibenzo(a,h)anthracene
Concen: 21.03 ng
RT: 16.18 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF089441.D
Acq: 30 Jul 2016 7:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.3	24.5#
279	28.3	19.1	28.7





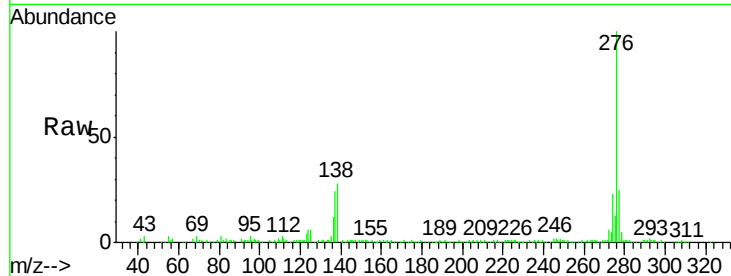
#91
 Benzo(g,h,i)perylene
 Concen: 59.38 ng
 RT: 16.54 min Scan# 1308
 Delta R.T. -0.01 min
 Lab File: BF089441.D
 Acq: 30 Jul 2016 7:10

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-COMP

Tgt Ion:	276	Resp:	267375
Ion Ratio	Lower	Upper	
276	100		
277	24.6	18.6	28.0
138	27.5	21.4	32.0

Manual Integrations
 APPROVED

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Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

