

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
 Data File : BF090895.D
 Acq On : 28 Oct 2016 4:19
 Operator : UM/SJ
 Sample : H5411-04 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-0-2.0

Manual Integrations
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Quant Time: Oct 28 05:47:03 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 27 18:46:43 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	64594m	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	242377	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	113812	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	159303	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	186349	20.00	ng	-0.01
86) Perylene-d12	15.36	264	146494	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	395567	107.07	ng	0.00
7) Phenol-d6	6.41	99	496833	99.68	ng	-0.01
23) Nitrobenzene-d5	7.33	82	276534	74.69	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	75310	64.39	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	516031	79.62	ng	-0.01
78) Terphenyl-d14	12.89	244	415162	56.13	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.09	128	57187	5.05	ng	100
37) 2-Methylnaphthalene	8.77	142	20698	2.83	ng	# 89
48) Acenaphthylene	9.68	152	45533	4.82	ng	96
49) Dimethylphthalate	9.54	163	191485	25.18	ng	# 97
51) Acenaphthene	9.85	154	52670	8.10	ng	89
54) Dibenzofuran	10.02	168	46866	5.58	ng	# 86
57) Fluorene	10.36	166	63960	9.30	ng	93
70) Phenanthrene	11.32	178	814323	100.38	ng	97
71) Anthracene	11.37	178	202076	23.66	ng	96
72) Carbazole	11.53	167	49150	6.52	ng	# 86
74) Fluoranthene	12.51	202	1116959	125.73	ng	92
77) Pylene	12.74	202	1113196	94.39	ng	95
80) Benzo(a)anthracene	13.93	228	573478m	57.99	ng	
82) Chrysene	13.96	228	591282m	59.11	ng	
83) Bis(2-ethylhexyl)phthalate	13.93	149	26025	3.73	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.72	276	221932	25.04	ng	# 80
87) Benzo(b)fluoranthene	14.96	252	567810m	57.64	ng	
88) Benzo(k)fluoranthene	14.98	252	207075m	26.60	ng	
89) Benzo(a)pyrene	15.30	252	433674	51.24	ng	# 84
90) Dibenz(a,h)anthracene	16.72	278	54262	7.57	ng	# 80
91) Benzo(g,h,i)perylene	17.12	276	214371	31.77	ng	# 79

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

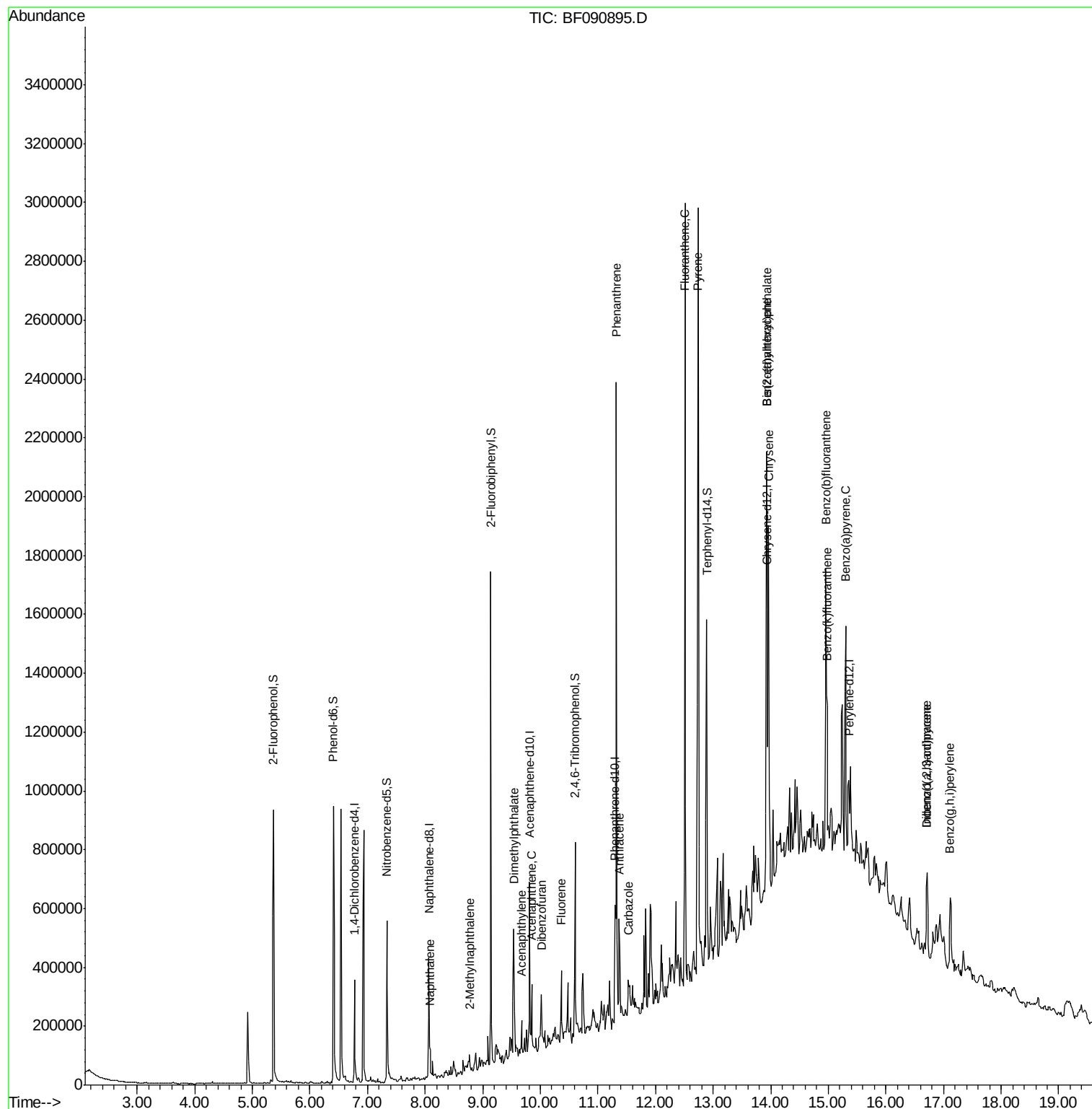
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102716\
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ALS Vial : 28 Sample Multiplier: 1

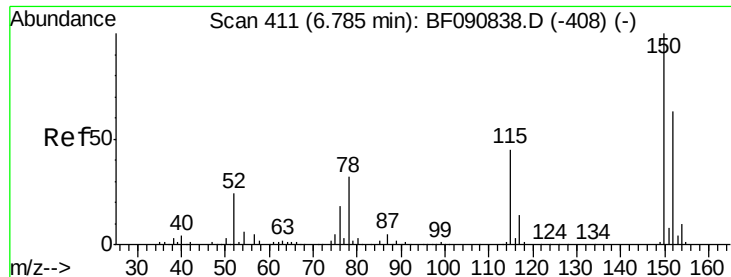
Instrument :
BNA_F
ClientSampled :
SB-02-0-2.0

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#1

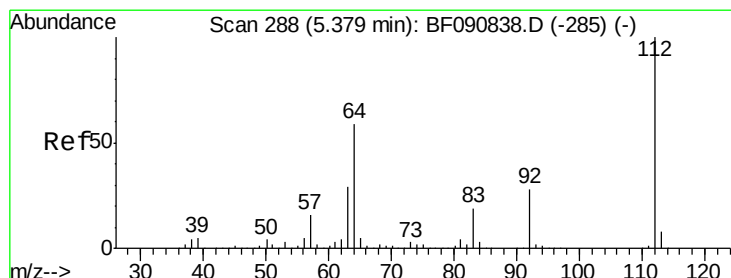
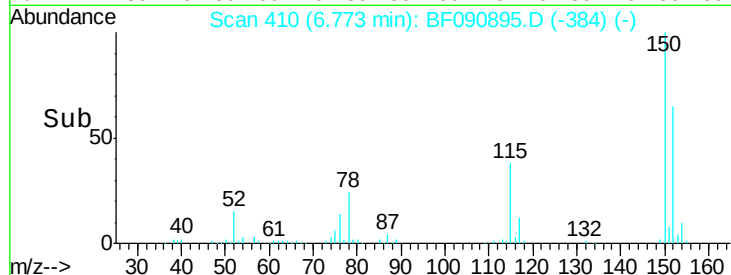
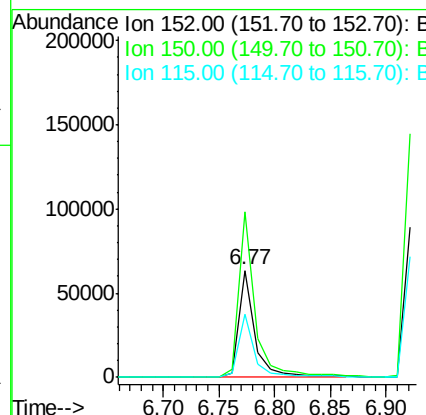
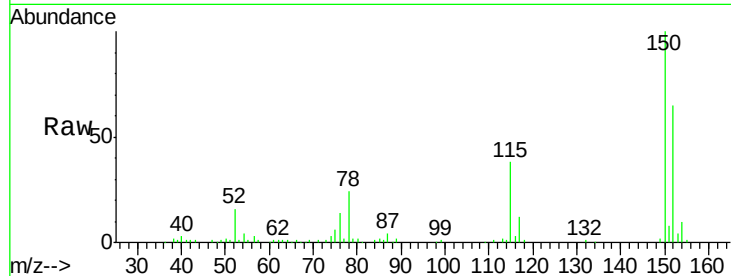
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.77 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Instrument :
BNA_F
ClientSampleId :
SB-02-0-2.0

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.7	187.1
115	58.8	39.0	58.4

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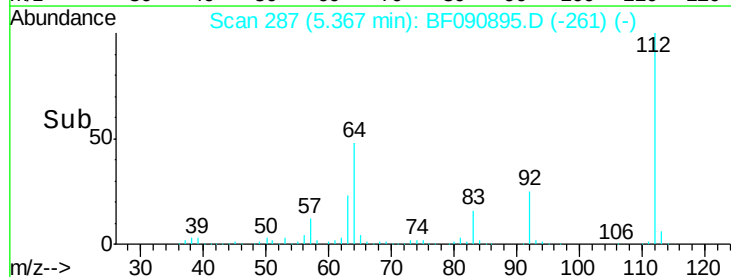
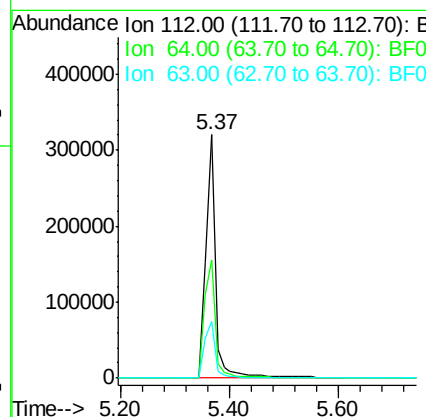
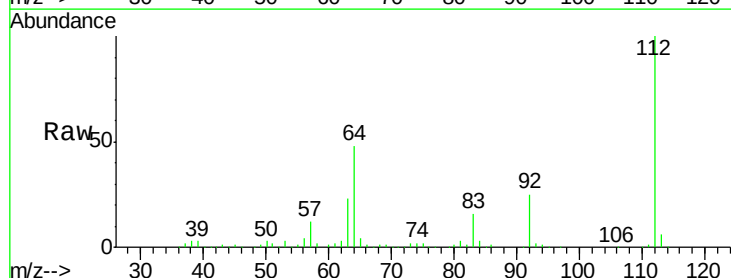
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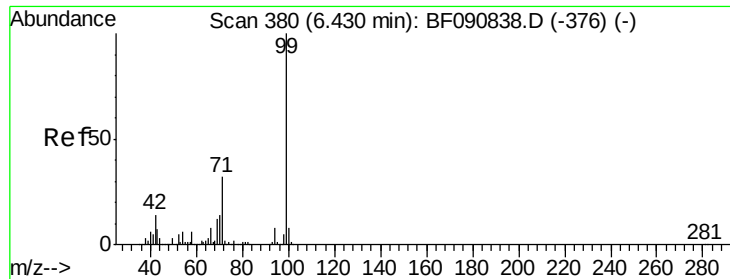


#5

2-Fluorophenol
Concen: 107.07 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.3	39.7	59.5
63	23.4	17.4	26.0





#7

Phenol-d6

Concen: 99.68 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

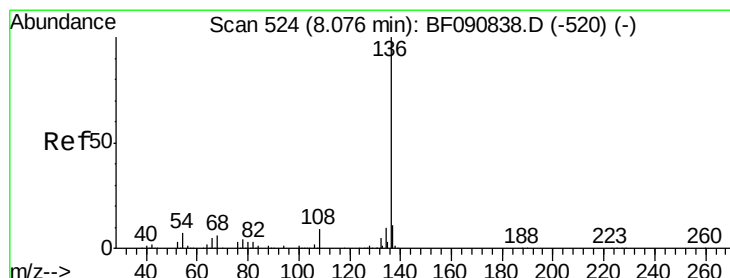
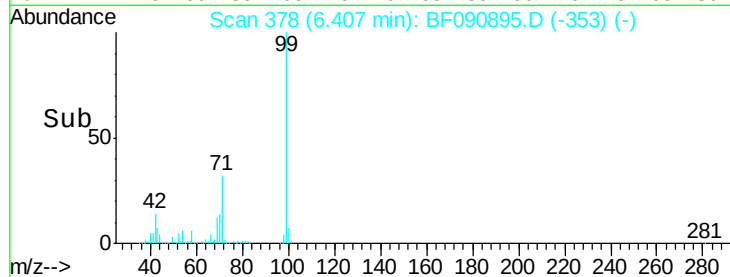
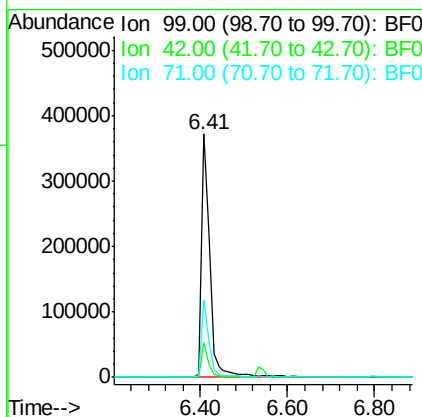
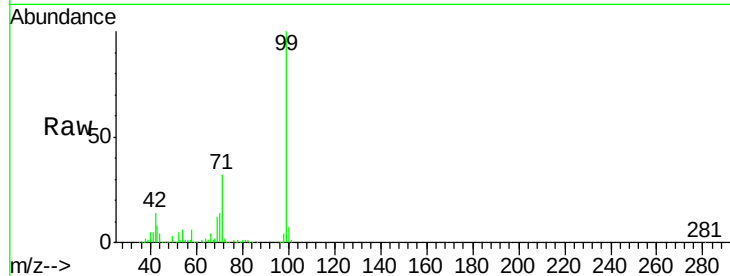
ClientSampleId :

SB-02-0-2.0

Tot Ion:	99	Resp:	496833
Ion Ratio	Lower	Upper	
99	100		
42	14.3	13.7	20.5
71	32.0	14.2	21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

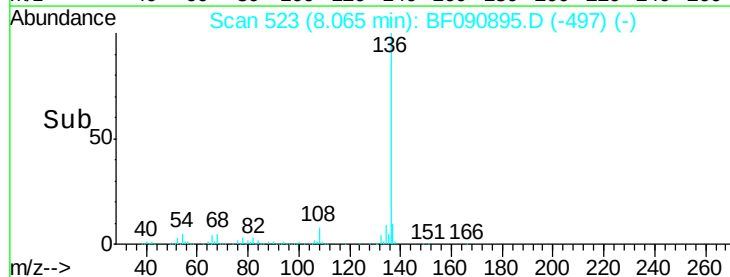
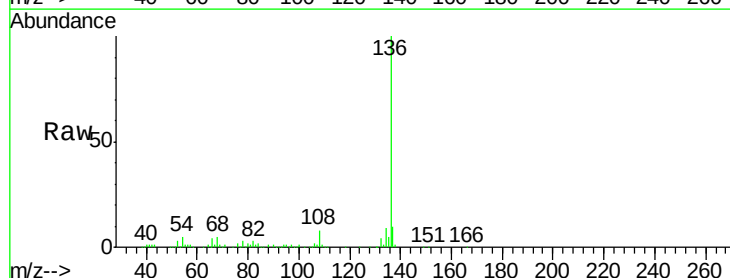
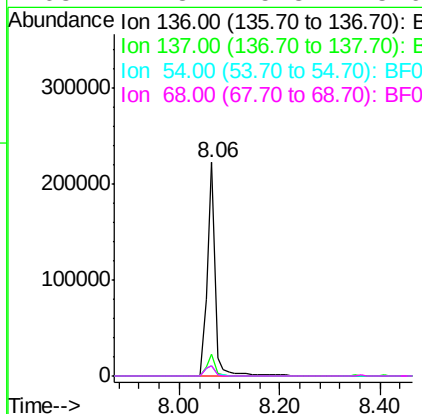
RT: 8.06 min Scan# 523

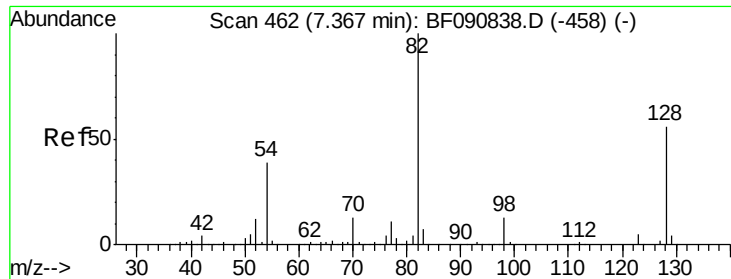
Delta R.T. 0.00 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	136	Resp:	242377
Ion Ratio	Lower	Upper	
136	100		
137	10.4	9.0	13.6
54	4.8	8.2	12.2#
68	4.8	5.8	8.6#





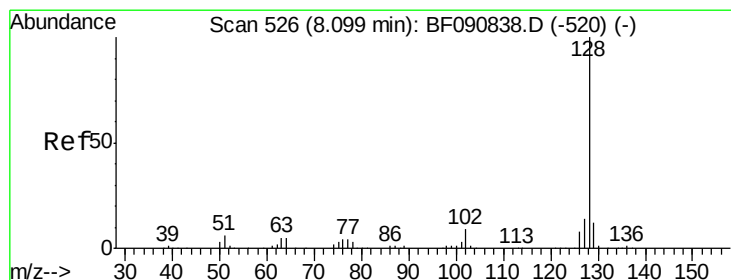
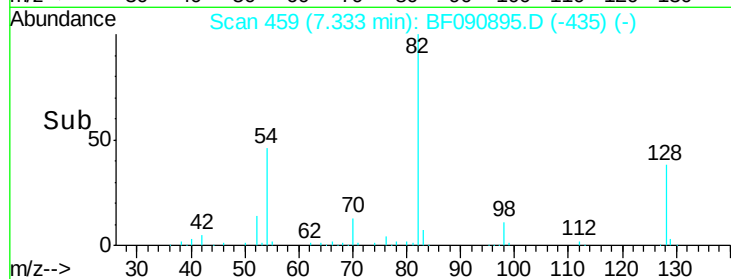
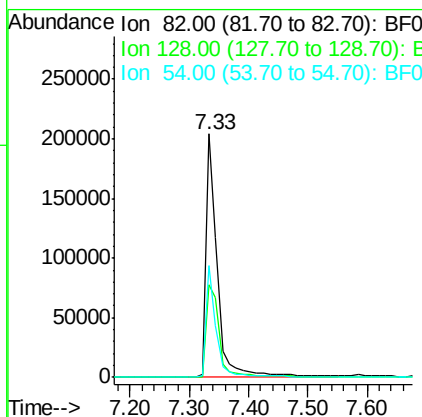
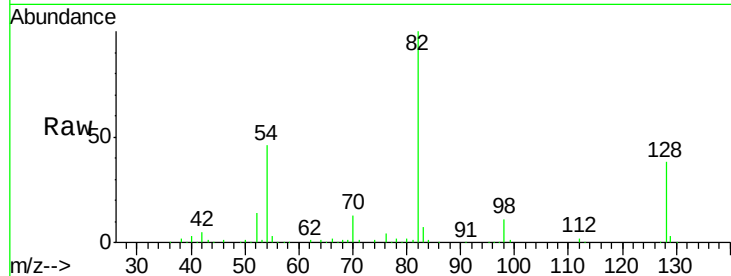
#23
 Nitrobenzene-d5
 Concen: 74.69 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.02 min
 Lab File: BF090895.D
 Acq: 28 Oct 2016 4:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
82	100	276534		
128	38.1	51.0	76.6#	
54	46.0	47.5	71.3#	

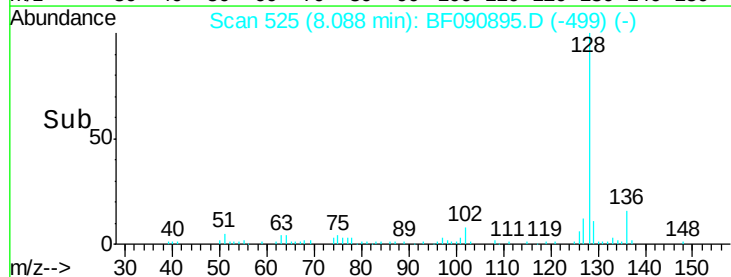
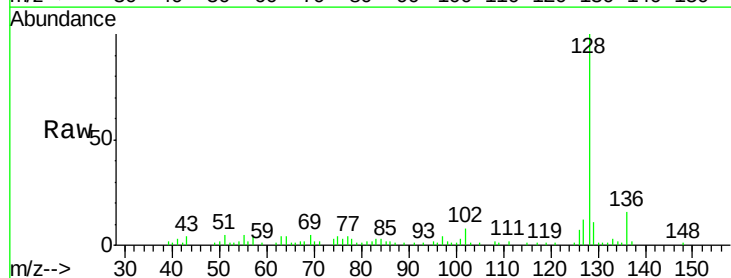
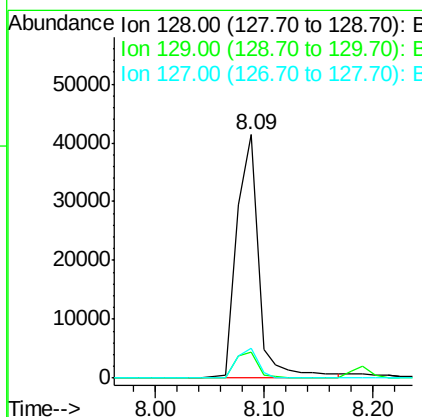
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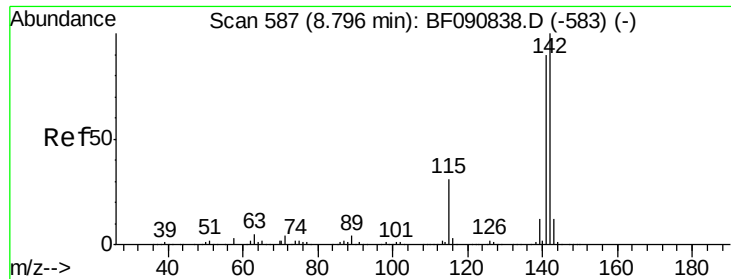
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#31
 Naphthalene
 Concen: 5.05 ng
 RT: 8.09 min Scan# 525
 Delta R.T. 0.00 min
 Lab File: BF090895.D
 Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	57187		
129	10.6	8.4	12.6	
127	12.4	9.9	14.9	





#37

2-Methylnaphthalene

Concen: 2.83 ng

RT: 8.77 min Scan# 585

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

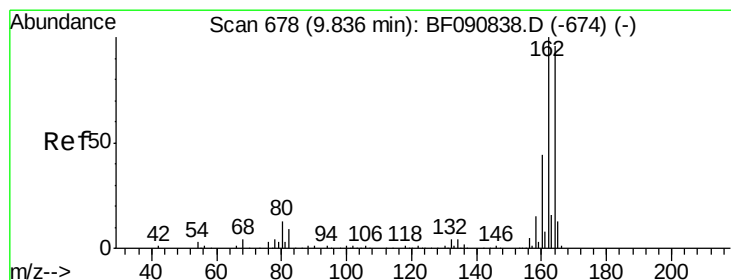
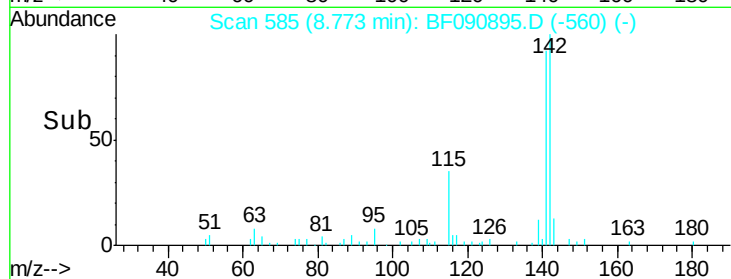
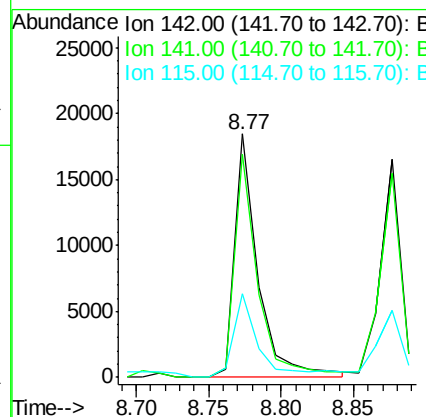
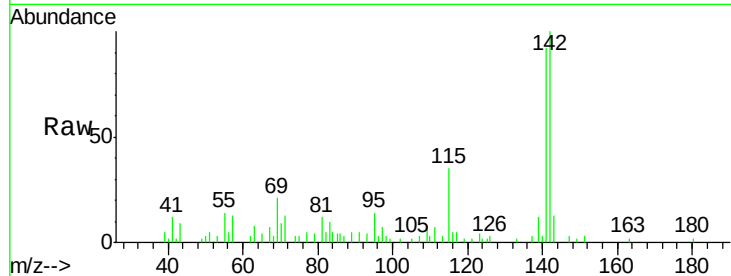
ClientSampleId :

SB-02-0-2.0

Tot Ion:	142	Resp:	20698
Ion Ratio	Lower	Upper	
142	100		
141	91.6	67.5	101.3
115	34.6	18.2	27.2#

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#38

Acenaphthene-d10

Concen: 20.00 ng

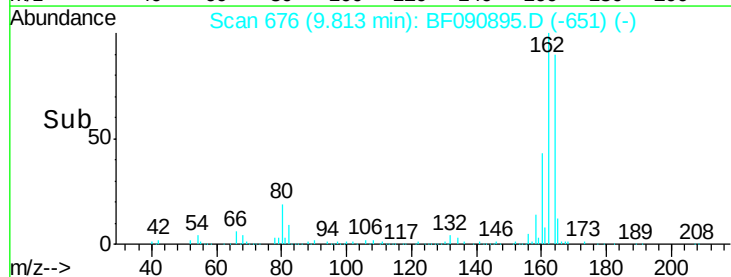
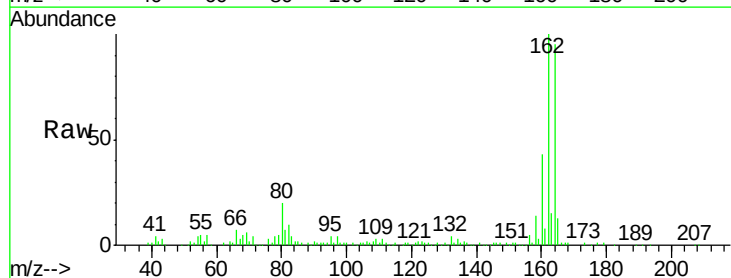
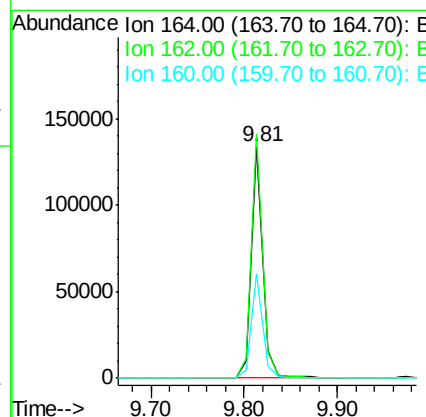
RT: 9.81 min Scan# 676

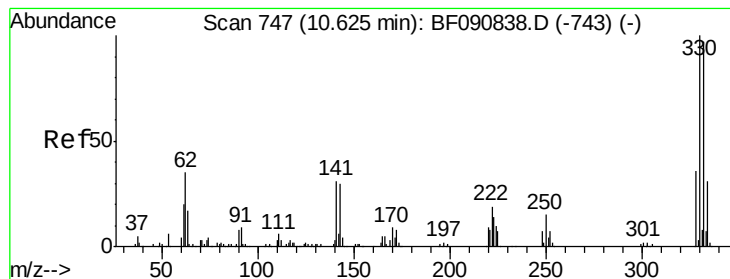
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	164	Resp:	113812
Ion Ratio	Lower	Upper	
164	100		
162	105.5	75.2	112.8
160	45.1	31.5	47.3





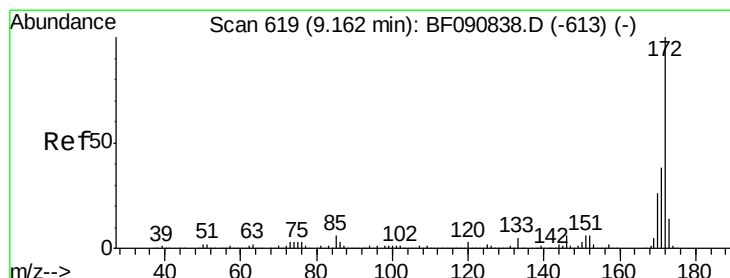
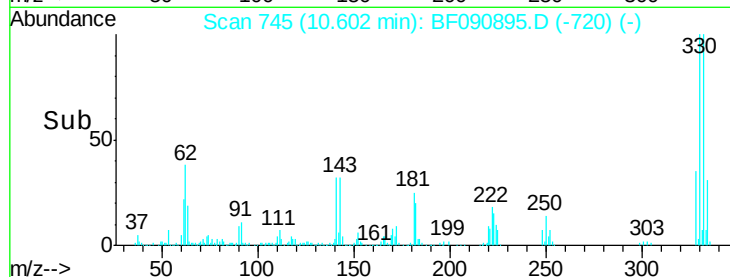
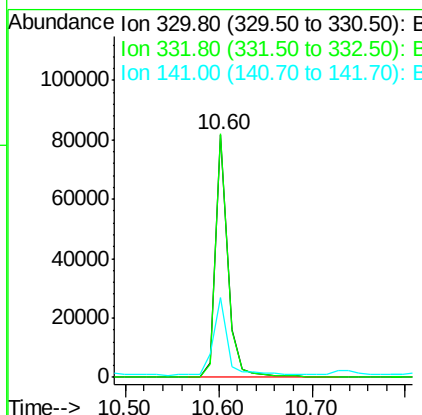
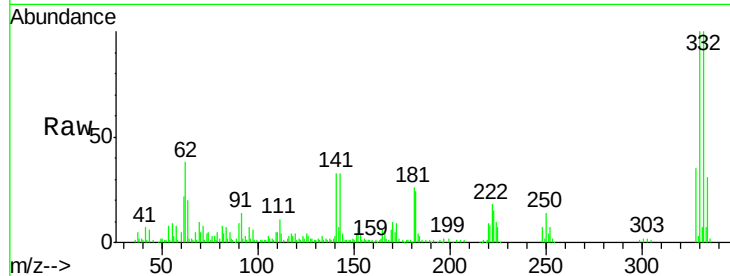
#41
 2,4,6-Tribromophenol
 Concen: 64.39 ng
 RT: 10.60 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF090895.D
 Acq: 28 Oct 2016 4:19

Instrument :
 BNA_F
 ClientSampled :
 SB-02-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
330	100	75310		
332	99.4	76.6	114.8	
141	38.1	29.7	44.5	

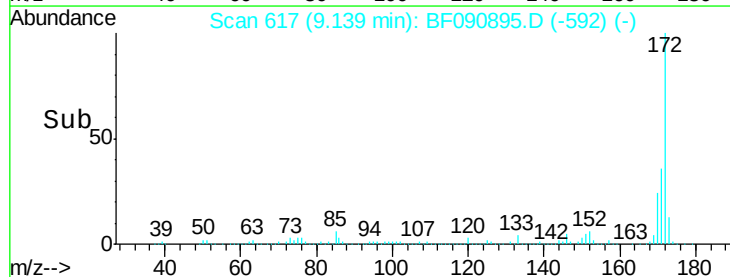
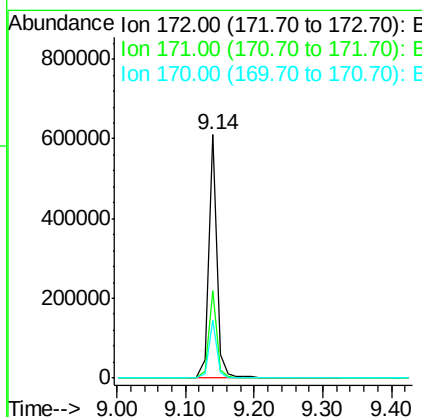
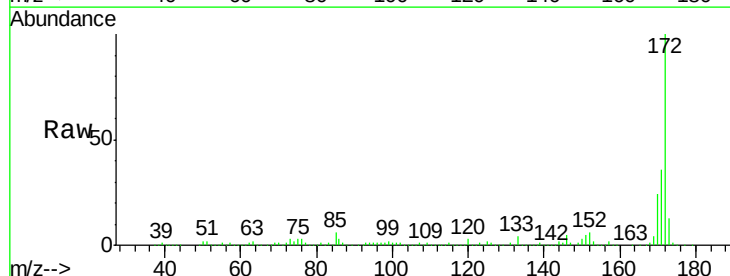
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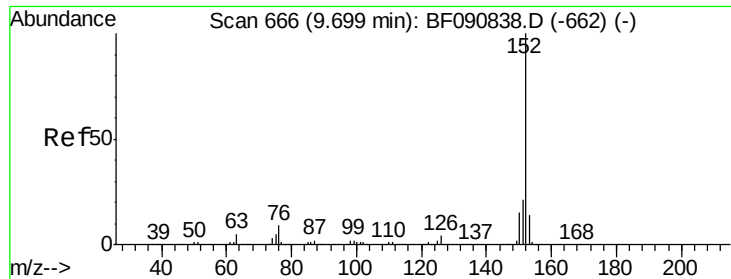
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#44
 2-Fluorobiphenyl
 Concen: 79.62 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: BF090895.D
 Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	516031		
171	35.8	26.1	39.1	
170	24.1	17.4	26.2	





#48

Acenaphthylene

Concen: 4.82 ng

RT: 9.68 min Scan# 664

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

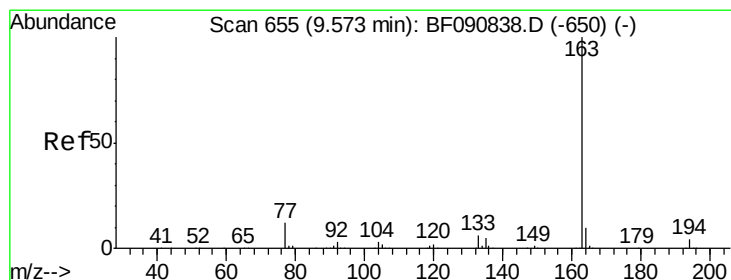
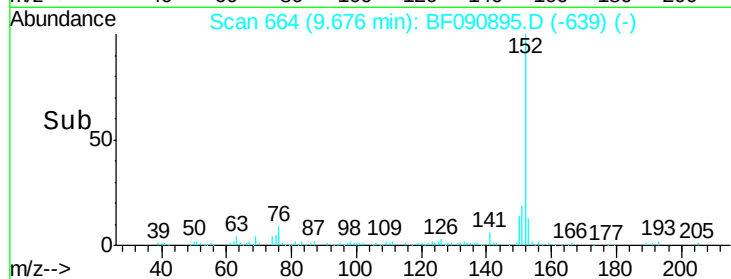
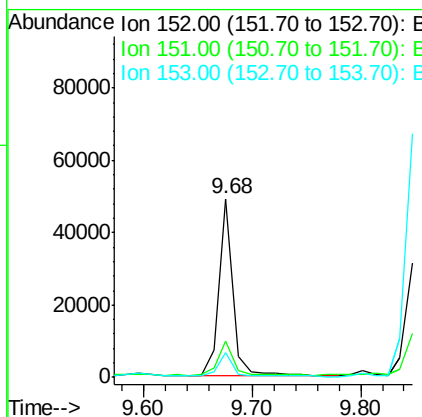
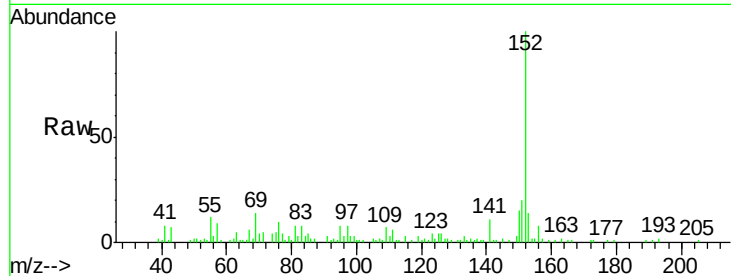
ClientSampleId :

SB-02-0-2.0

Tot Ion:	152	Resp:	45533
Ion Ratio	Lower	Upper	
152	100		
151	20.5	14.6	22.0
153	13.8	10.3	15.5

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#49

Dimethylphthalate

Concen: 25.18 ng

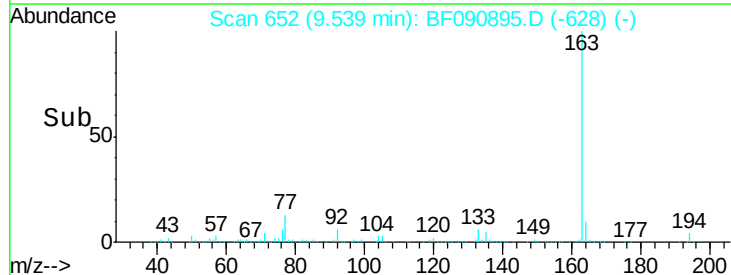
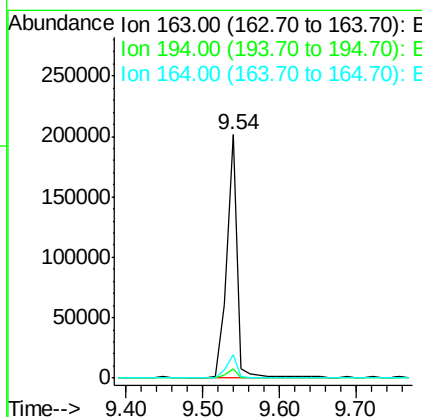
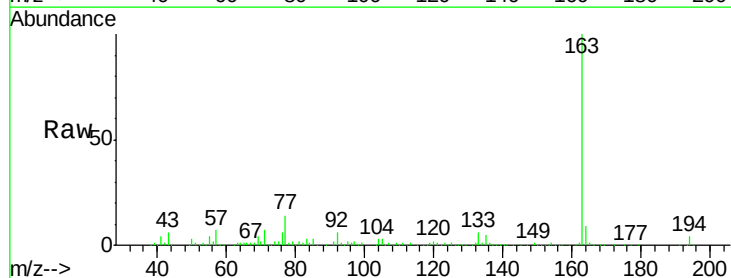
RT: 9.54 min Scan# 652

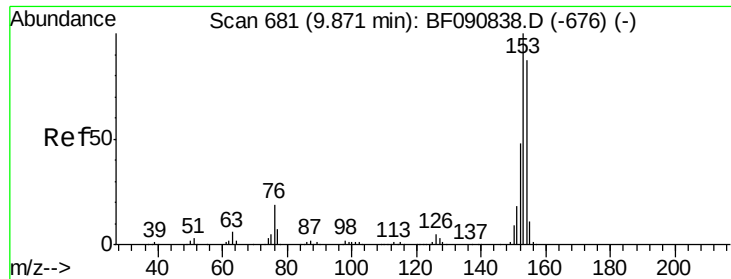
Delta R.T. -0.02 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	163	Resp:	191485
Ion Ratio	Lower	Upper	
163	100		
194	4.0	4.4	6.6#
164	9.5	8.3	12.5





#51

Acenaphthene

Concen: 8.10 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

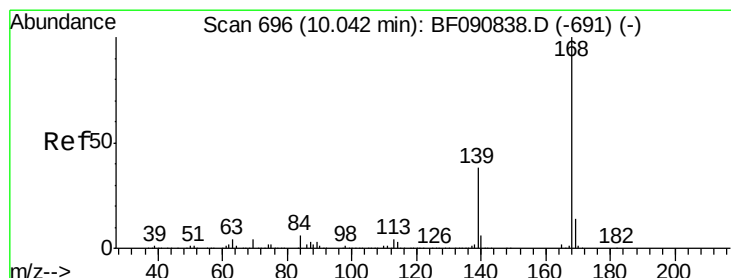
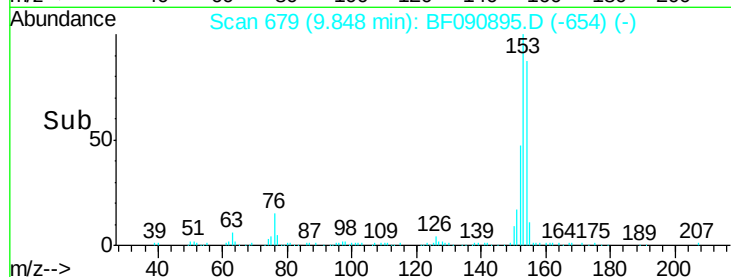
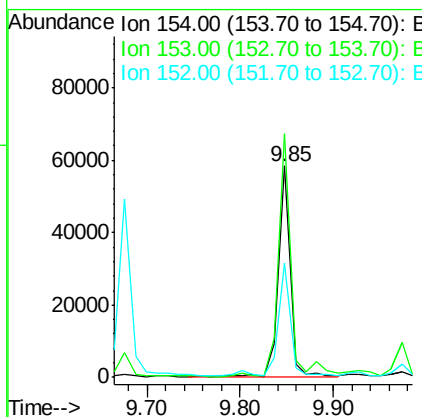
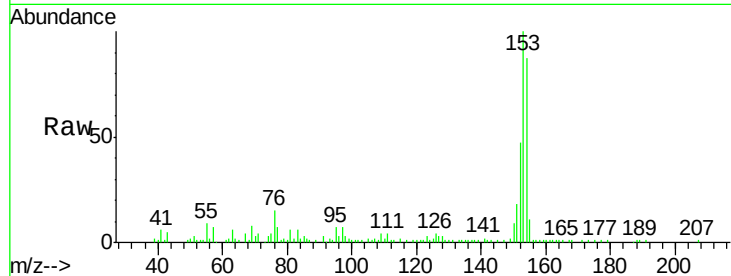
ClientSampleId :

SB-02-0-2.0

Tot Ion:	154	Resp:	52670
Ion Ratio	Lower	Upper	
154	100		
153	115.1	82.1	123.1
152	53.9	37.9	56.9

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#54

Dibenzofuran

Concen: 5.58 ng

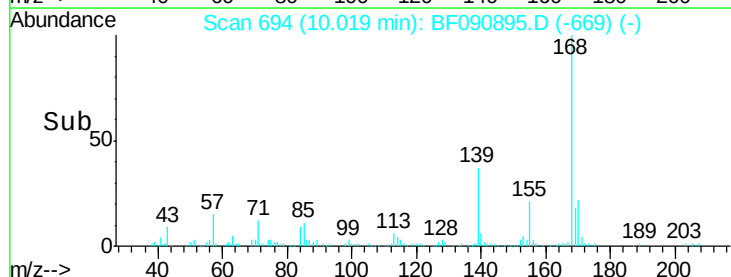
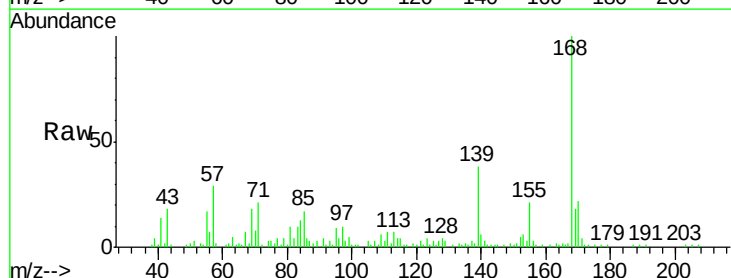
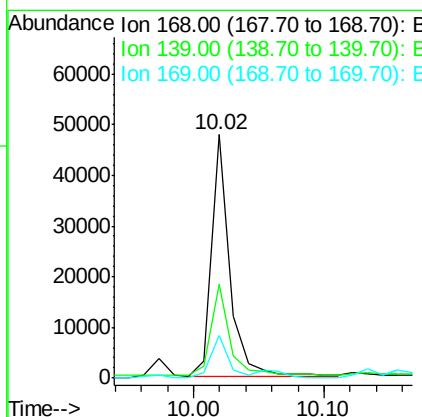
RT: 10.02 min Scan# 694

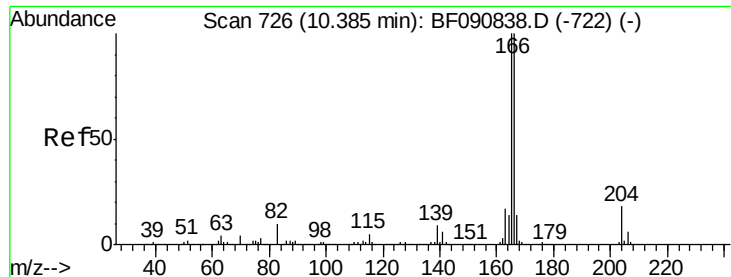
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	168	Resp:	46866
Ion Ratio	Lower	Upper	
168	100		
139	38.5	24.2	36.2#
169	17.5	10.6	15.8#





#57

Fluorene

Concen: 9.30 ng

RT: 10.36 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

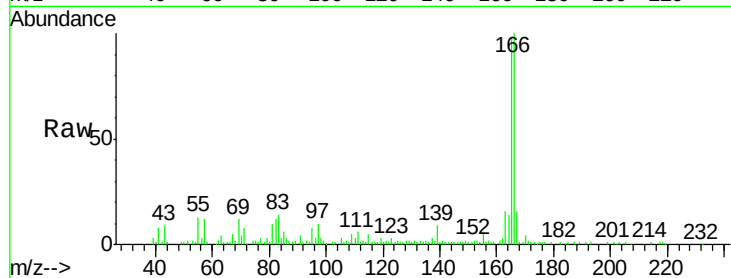
ClientSampleId :

SB-02-0-2.0

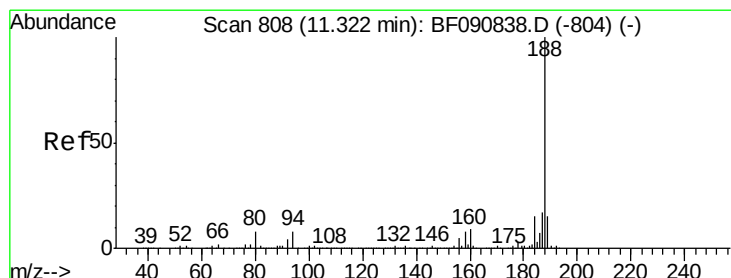
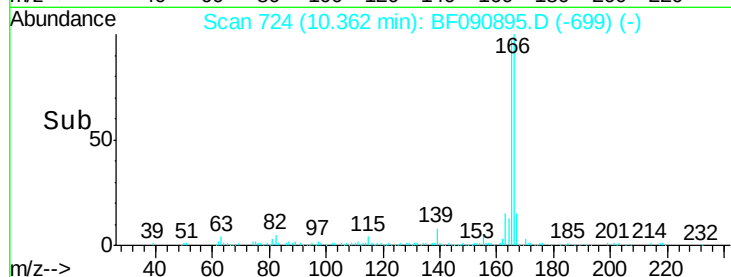
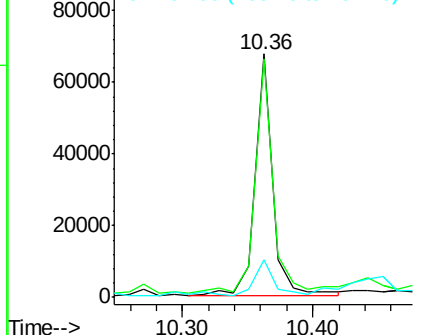
Tot Ion:	166	Resp:	63960
Ion Ratio	Lower	Upper	
166	100		
165	98.1	72.6	109.0
167	15.7	10.6	16.0

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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: 11.30 min Scan# 806

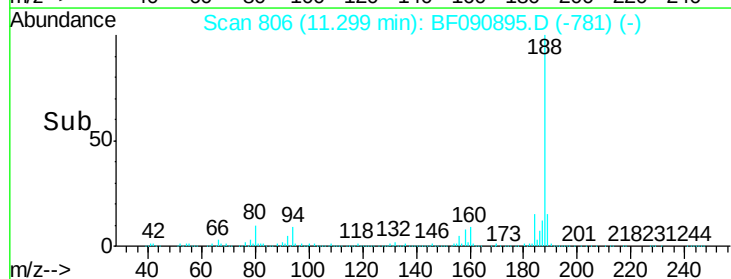
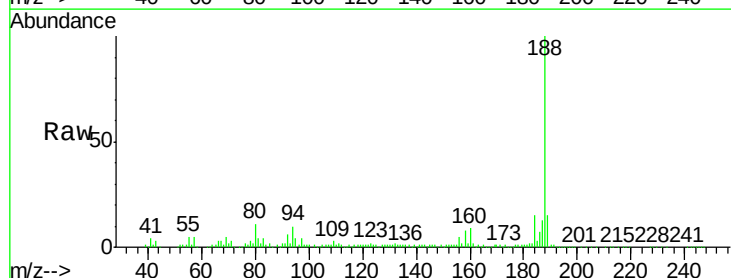
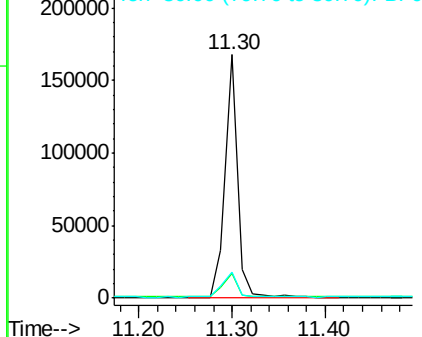
Delta R.T. -0.01 min

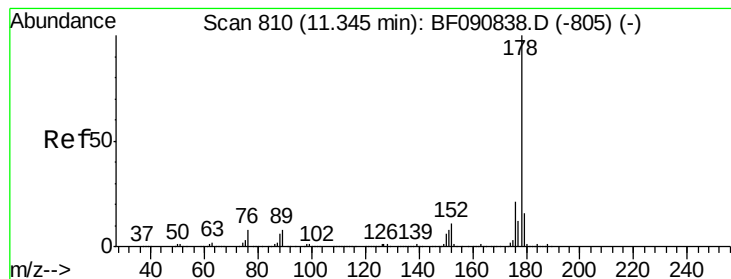
Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	188	Resp:	159303
Ion Ratio	Lower	Upper	
188	100		
94	10.0	11.1	16.7#
80	10.6	11.0	16.4#

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: 100.38 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

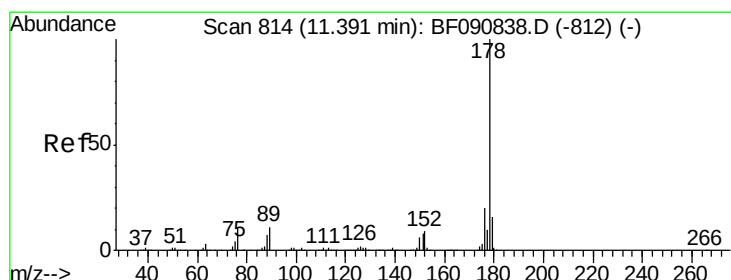
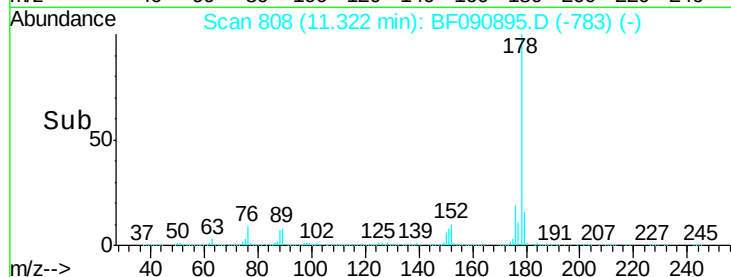
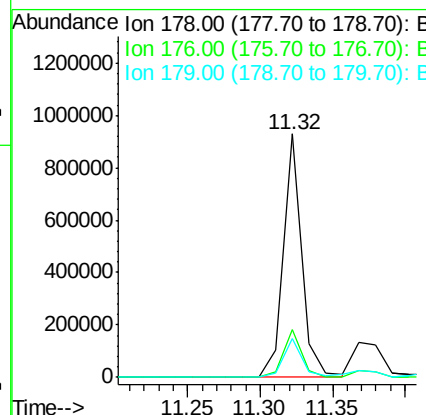
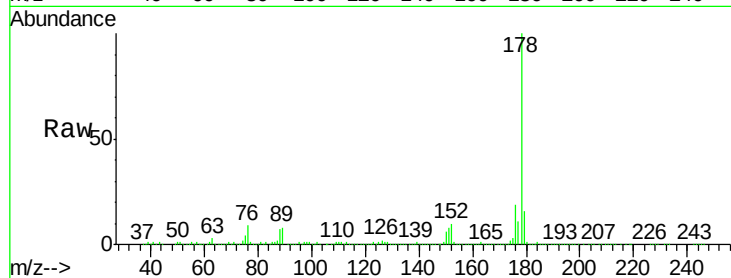
ClientSampleId :

SB-02-0-2.0

Tot Ion:178	Resp:	814323
Ion Ratio	Lower	Upper
178	100	
176	19.4	13.8 20.8
179	15.8	12.2 18.2

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#71

Anthracene

Concen: 23.66 ng

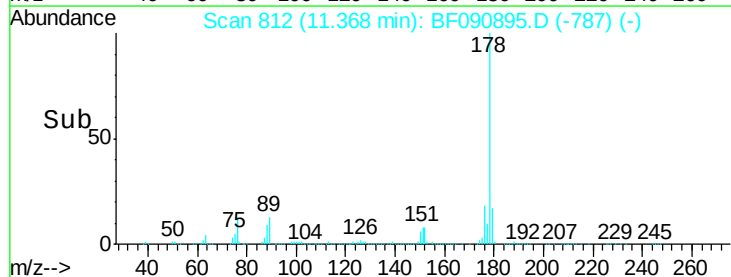
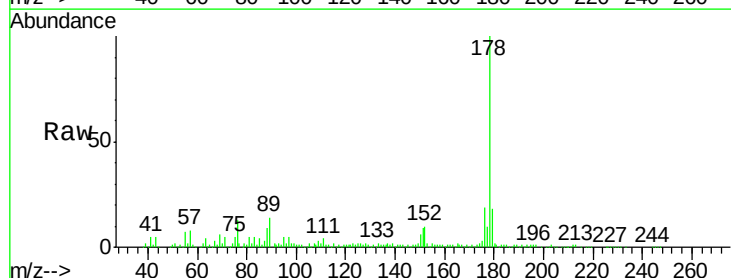
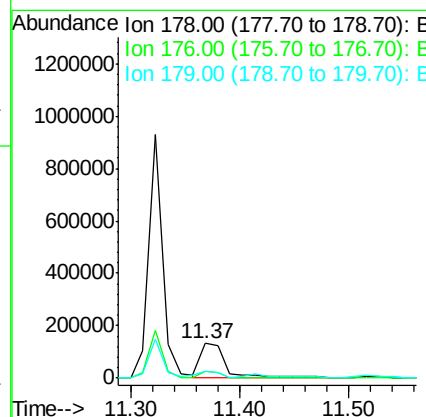
RT: 11.37 min Scan# 812

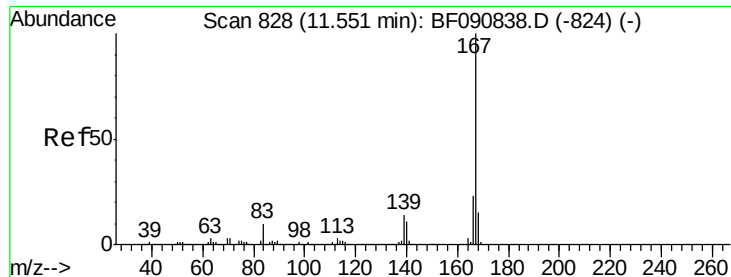
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:178	Resp:	202076
Ion Ratio	Lower	Upper
178	100	
176	18.7	14.1 21.1
179	18.0	12.2 18.2





#72

Carbazole

Concen: 6.52 ng

RT: 11.53 min Scan# 826

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

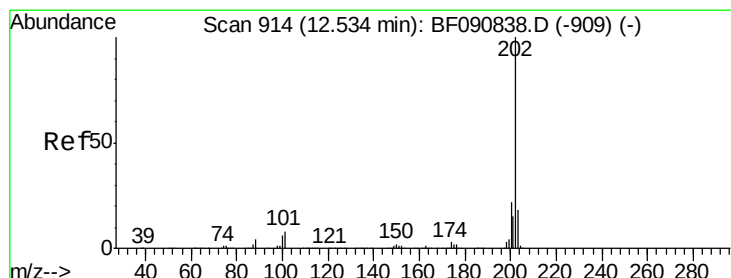
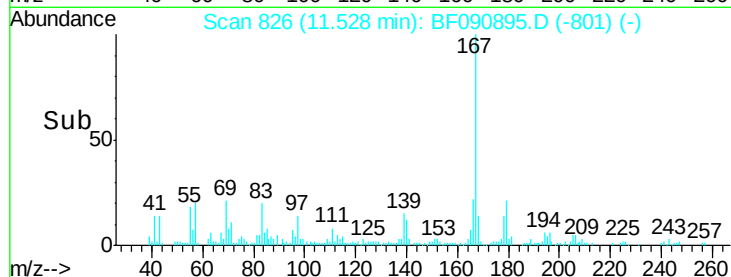
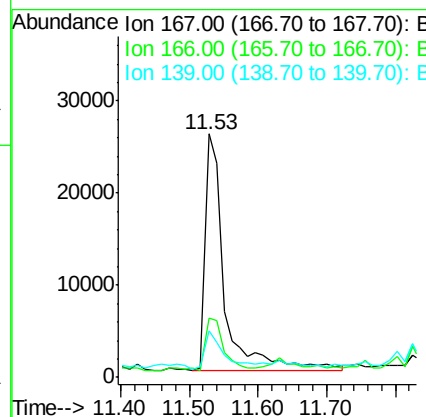
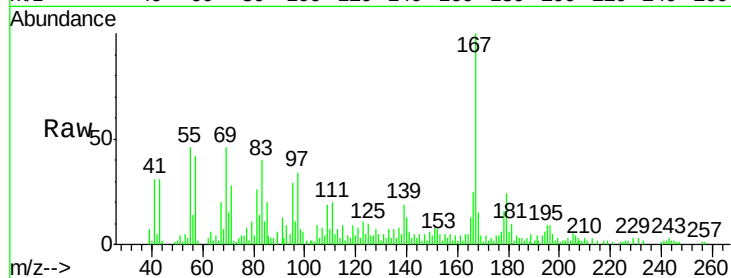
ClientSampled :

SB-02-0-2.0

Tot Ion:	167	Resp:	49150
Ion Ratio	Lower	Upper	
167	100		
166	24.6	15.7	23.5#
139	18.9	9.5	14.3#

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#74

Fluoranthene

Concen: 125.73 ng

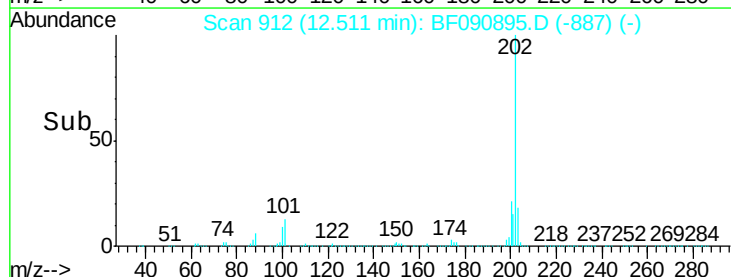
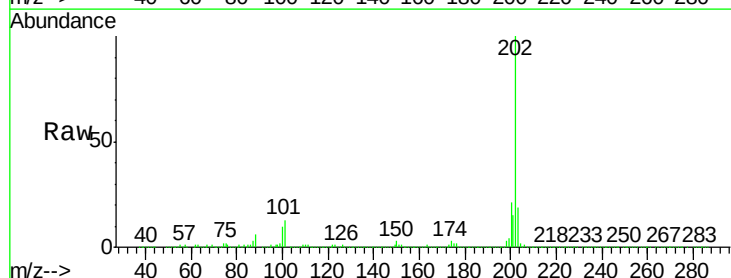
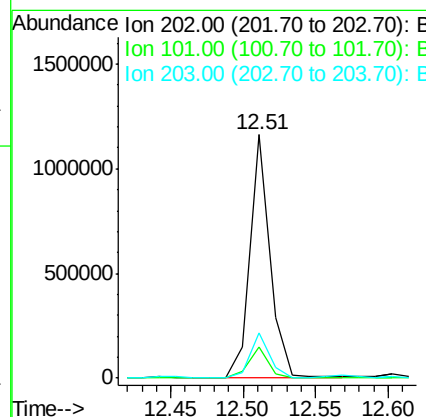
RT: 12.51 min Scan# 912

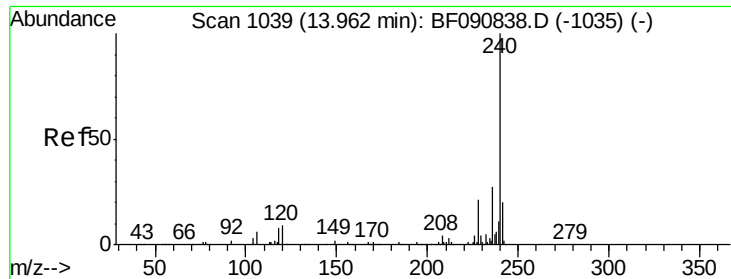
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	202	Resp:	1116959
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	38.3
203	18.6	0.0	37.3





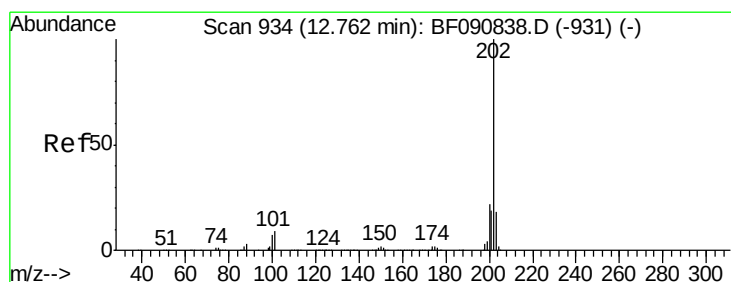
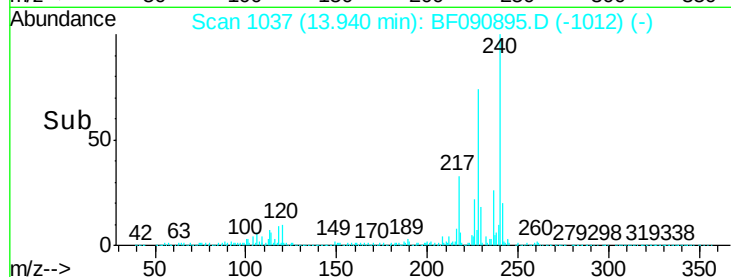
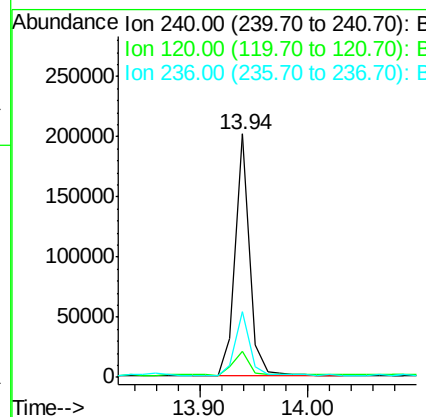
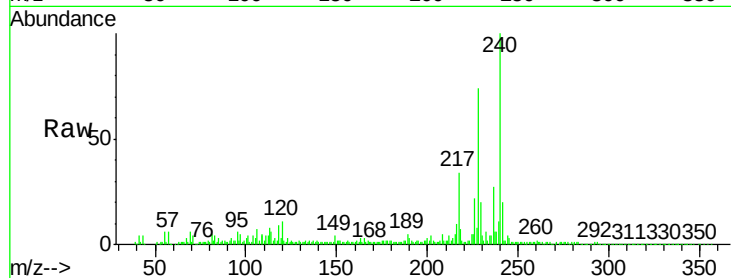
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.94 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Instrument :
BNA_F
ClientSampleId :
SB-02-0-2.0

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.9	16.2	24.2#
236	26.8	18.4	27.6

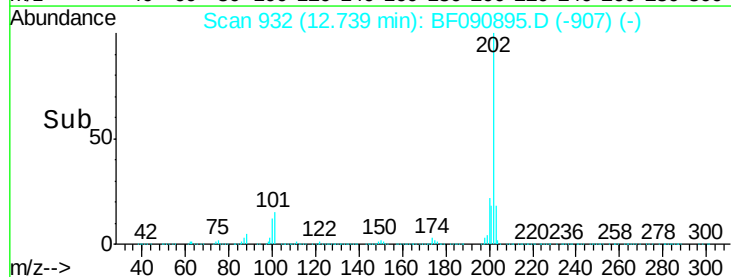
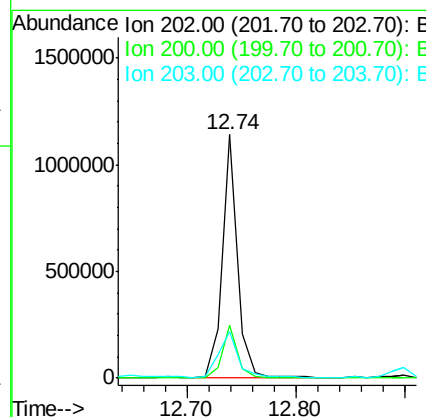
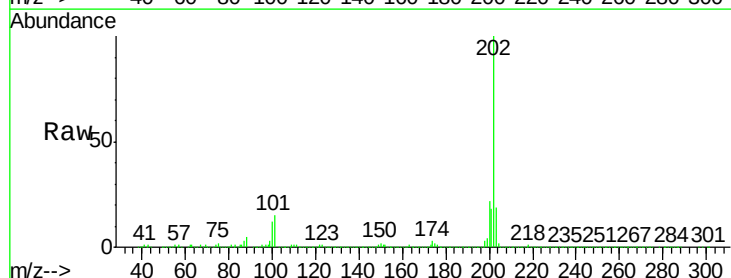
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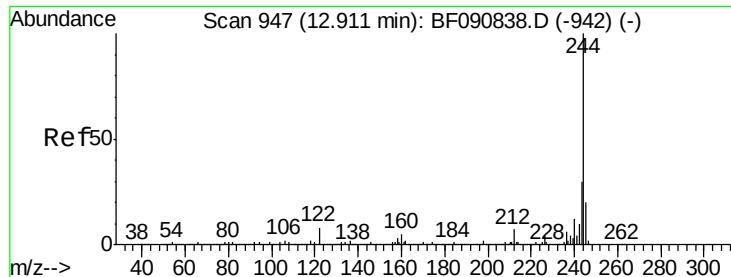
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#77
Pyrene
Concen: 94.39 ng
RT: 12.74 min Scan# 932
Delta R.T. -0.01 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	15.0	22.4
203	18.9	14.1	21.1





#78

Terphenyl-d14

Concen: 56.13 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

ClientSampleId :

SB-02-0-2.0

Tot Ion:244 Resp: 415162

Ion Ratio Lower Upper

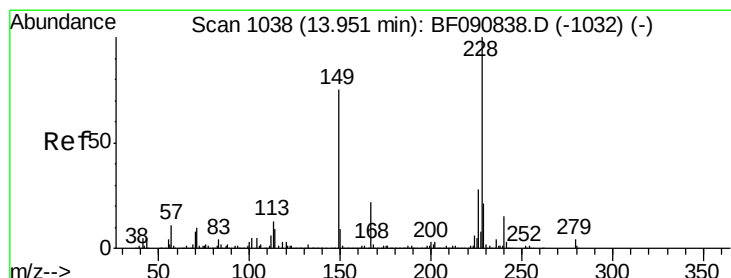
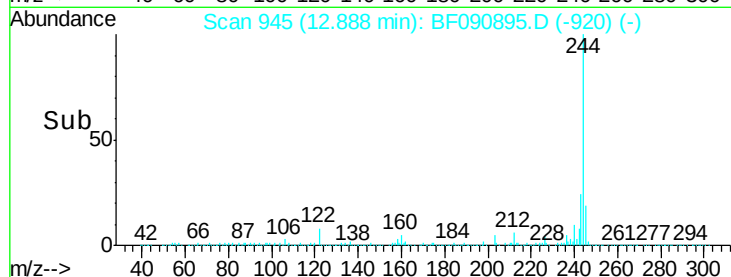
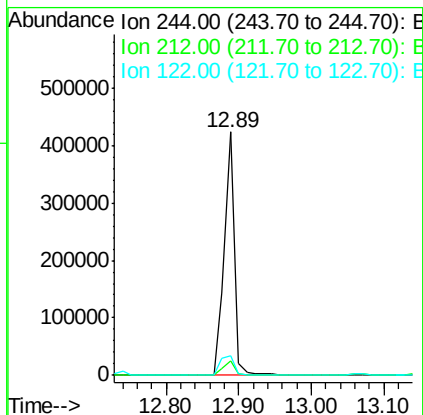
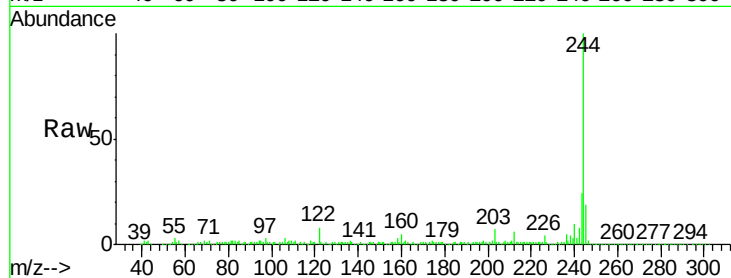
244 100

212 6.1 4.3 6.5

122 7.9 17.4 26.2#

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#80

Benzo(a)anthracene

Concen: 57.99 ng m

RT: 13.93 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

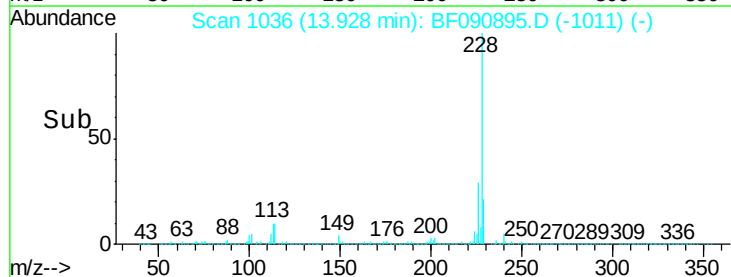
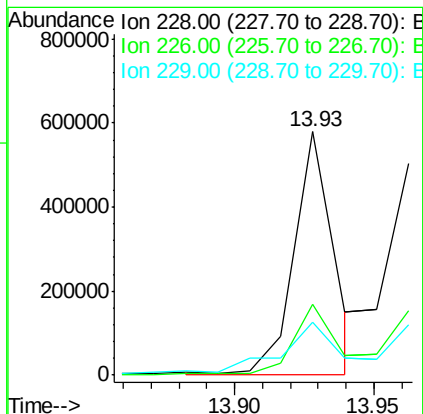
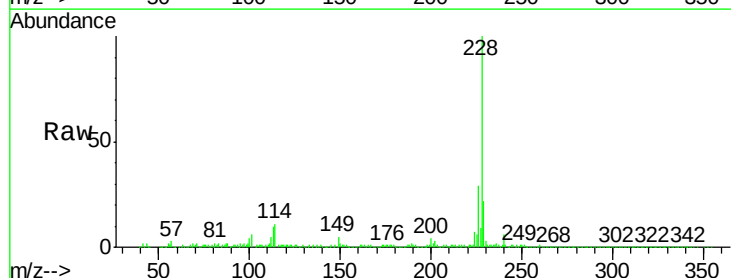
Tgt Ion:228 Resp: 573478

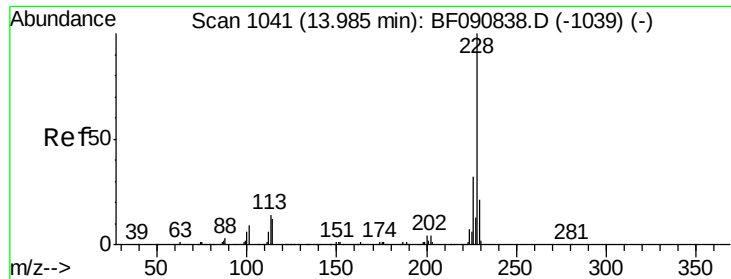
Ion Ratio Lower Upper

228 100

226 29.1 20.0 30.0

229 21.9 15.4 23.2





#82

Chrysene

Concen: 59.11 ng/mL

RT: 13.96 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

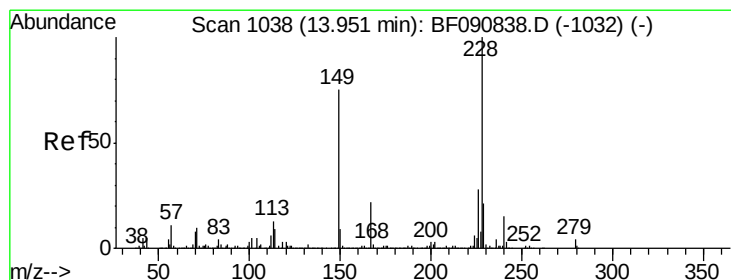
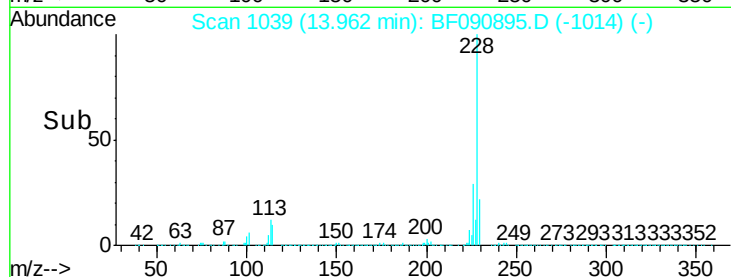
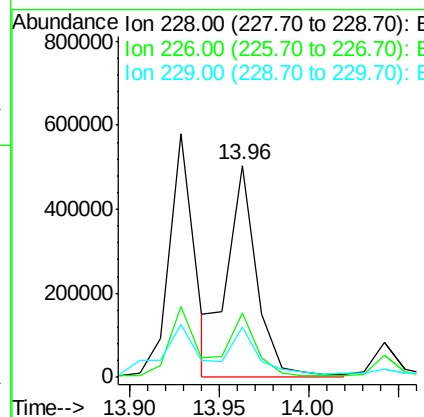
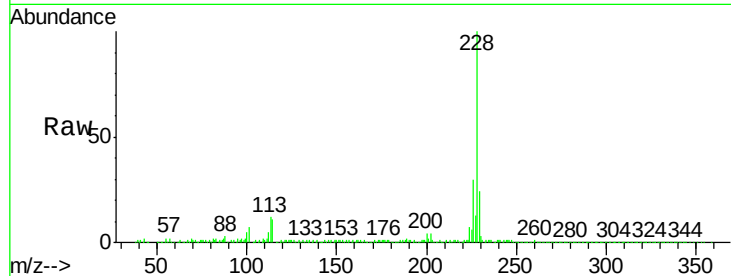
ClientSampleId :

SB-02-0-2.0

Tot Ion:	228	Resp:	591282
Ion Ratio	Lower	Upper	
228	100		
226	30.1	21.0	31.4
229	23.5	15.6	23.4

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#83

Bis(2-ethylhexyl)phthalate

Concen: 3.73 ng/mL

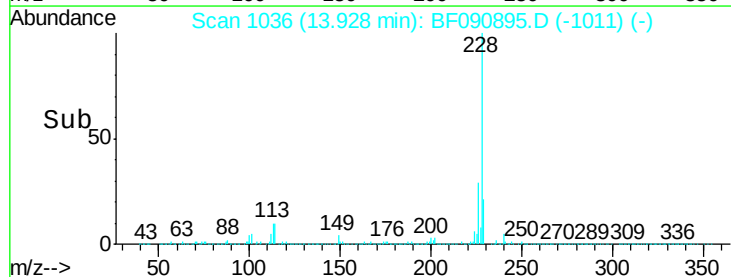
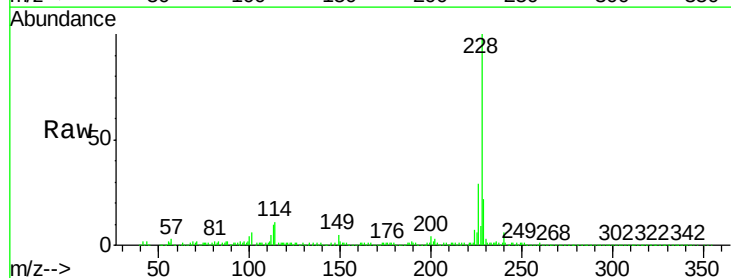
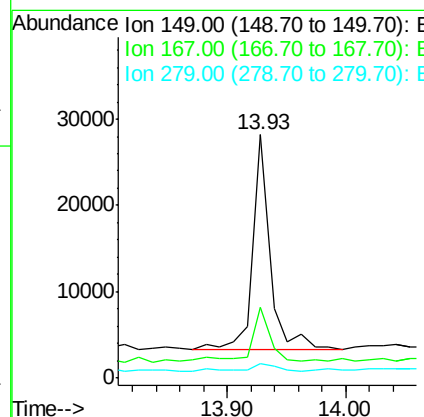
RT: 13.93 min Scan# 1036

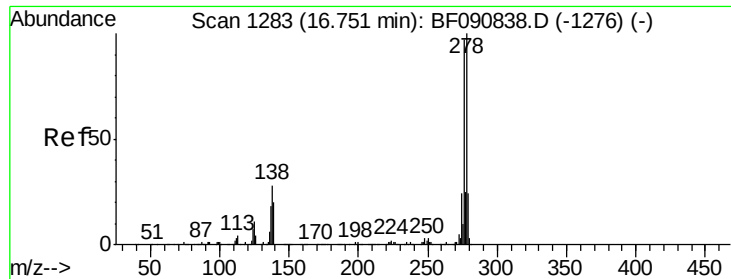
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	149	Resp:	26025
Ion Ratio	Lower	Upper	
149	100		
167	29.1	24.2	36.2
279	6.1	3.8	5.6





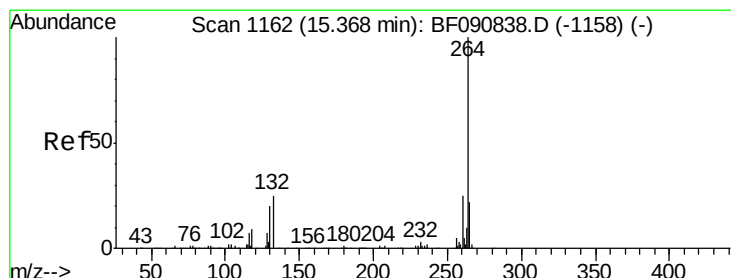
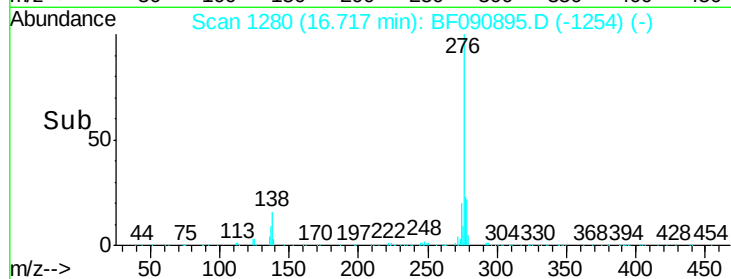
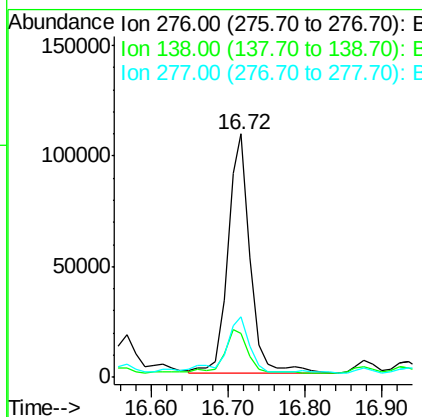
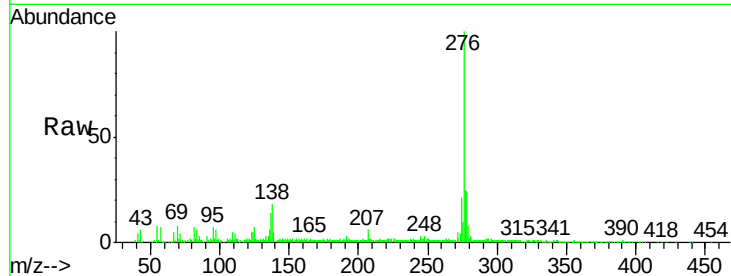
#85
Indeno(1,2,3-cd)pyrene
Concen: 25.04 ng
RT: 16.72 min Scan# 1280
Delta R.T. 0.00 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Instrument :
BNA_F
ClientSampleId :
SB-02-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
276	100	221932		
138	19.0		25.7	38.5#
277	26.6		15.6	23.4#

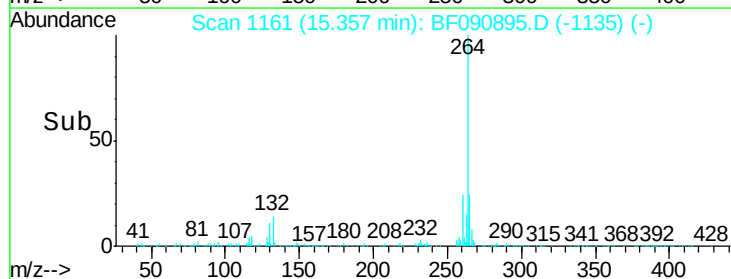
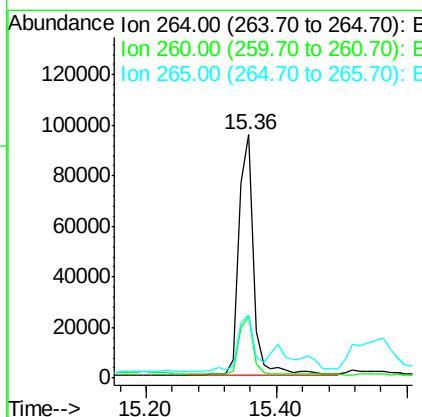
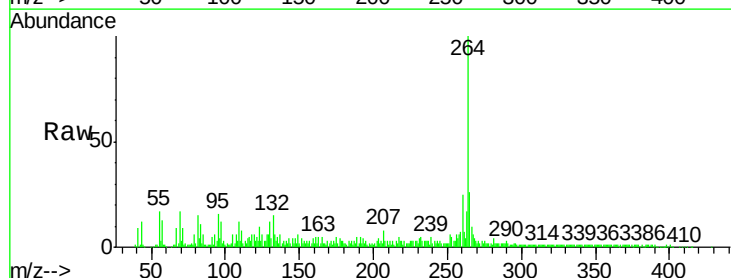
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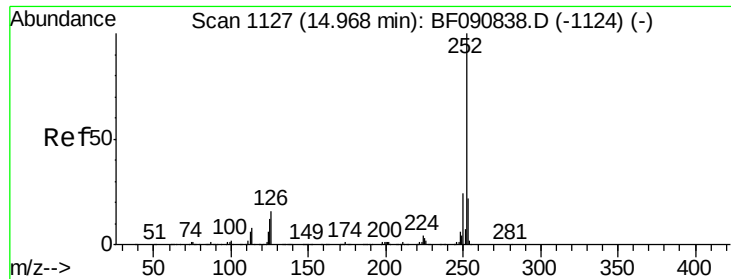
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1161
Delta R.T. 0.00 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	146494		
260	25.5		16.7	25.1#
265	26.1		17.2	25.8#





#87

Benzo(b)fluoranthene

Concen: 57.64 ng m

RT: 14.96 min Scan# 1126

Delta R.T. 0.00 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

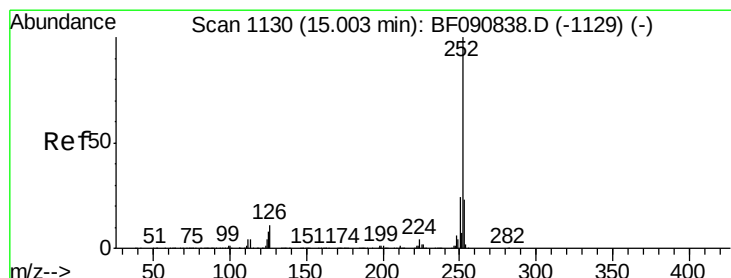
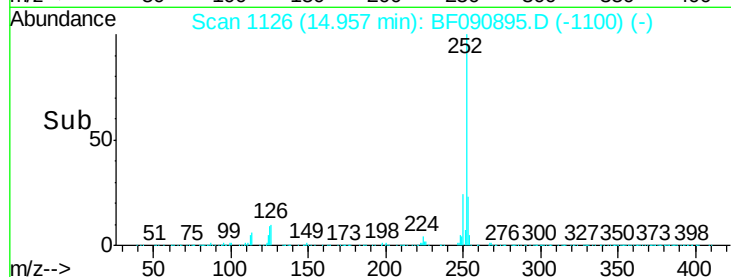
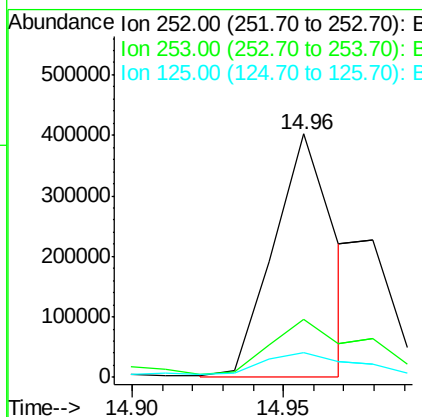
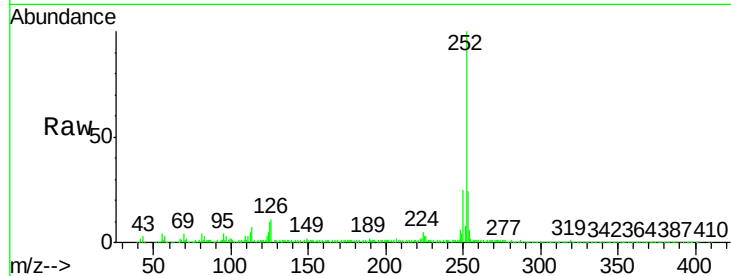
ClientSampled :

SB-02-0-2.0

Tot Ion:	252	Resp:	567810
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.5	26.3
125	10.3	17.1	25.7#

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#88

Benzo(k)fluoranthene

Concen: 26.60 ng m

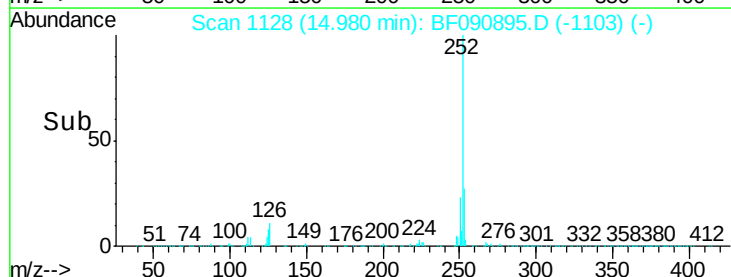
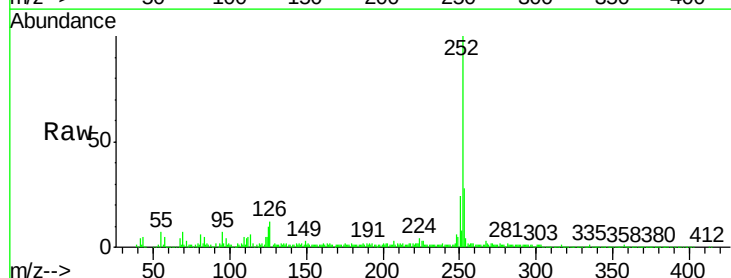
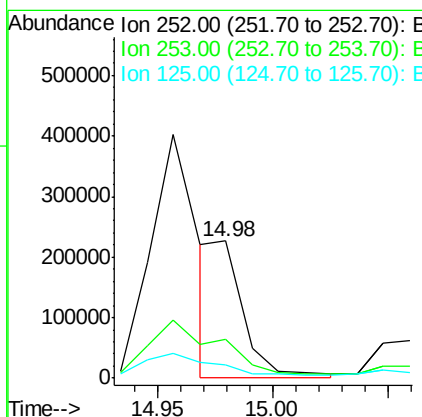
RT: 14.98 min Scan# 1128

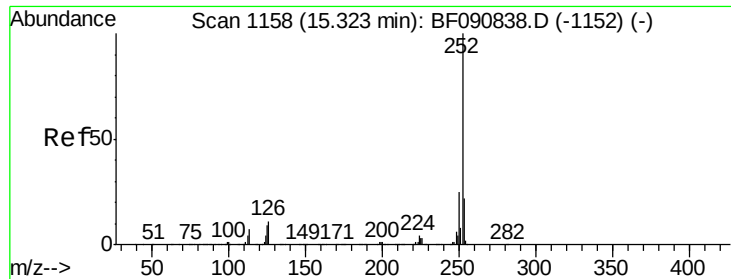
Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Tgt Ion:	252	Resp:	207075
Ion Ratio	Lower	Upper	
252	100		
253	28.0	17.0	25.4#
125	10.0	16.0	24.0#





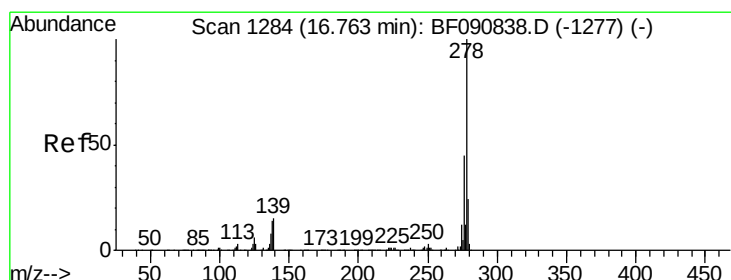
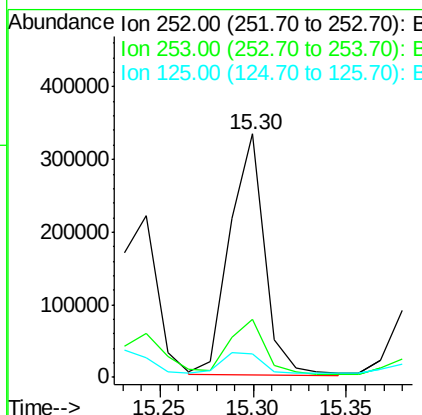
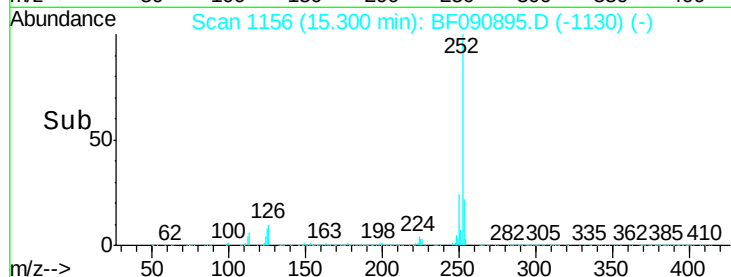
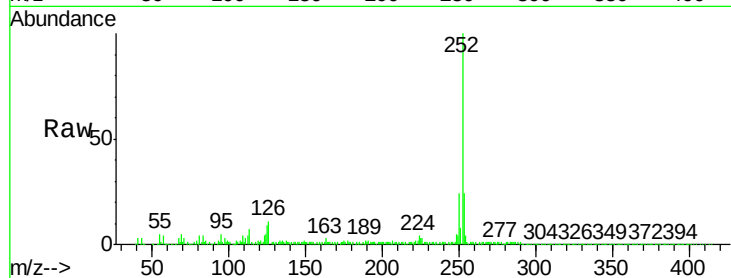
#89
Benzo(a)pyrene
Concen: 51.24 ng
RT: 15.30 min Scan# 1156
Delta R.T. 0.00 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Instrument :
BNA_F
ClientSampleId :
SB-02-0-2.0

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

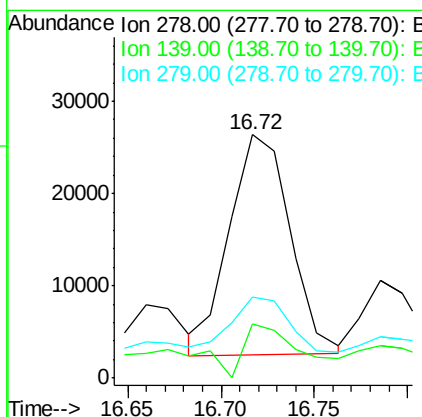
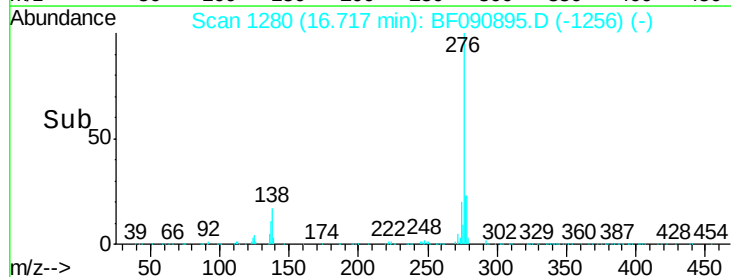
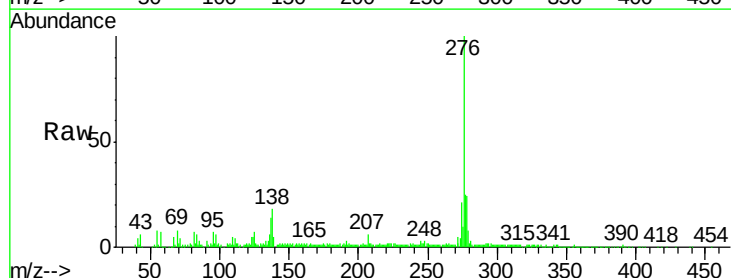
Manual Integrations
APPROVED

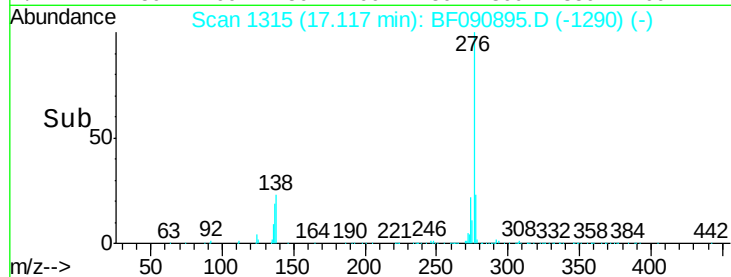
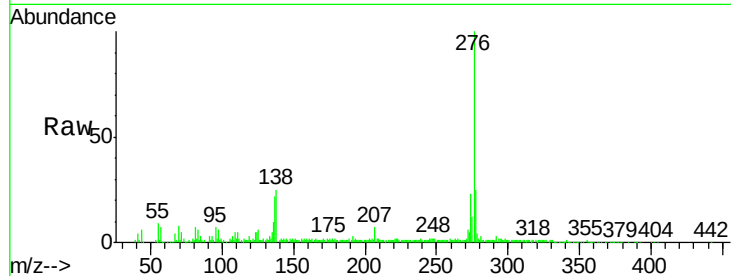
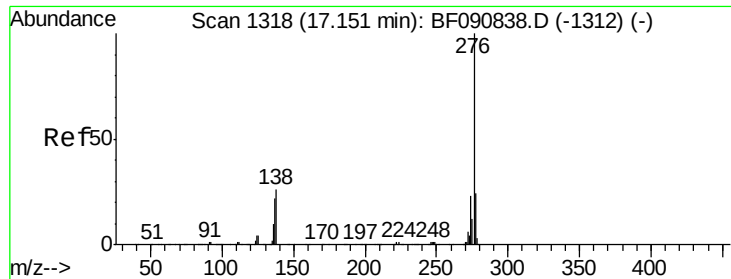
sohil
10/28/2016 5:24:07 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.57 ng
RT: 16.72 min Scan# 1280
Delta R.T. -0.02 min
Lab File: BF090895.D
Acq: 28 Oct 2016 4:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.3	26.3	39.5#
279	33.2	18.2	27.4#





#91

Benzo(a,h,i)perylene

Concen: 31.77 ng

RT: 17.12 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF090895.D

Acq: 28 Oct 2016 4:19

Instrument :

BNA_F

ClientSampleId :

SB-02-0-2.0

Tot Ion:	276	Resp:	214371
Ion Ratio	Lower	Upper	
276	100		
277	25.0	17.8	26.6
138	24.7	34.6	51.8#

Manual Integrations
APPROVED

sohil
10/28/2016 5:24:07 PM

