

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
 Data File : BE091410.D
 Acq On : 17 Feb 2016 18:45
 Operator : UM/IZ
 Sample : H1445-01DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LIBERTY-SF-005DL

Manual Integrations
 APPROVED

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 2/18/2016 9:53:14 AM

Quant Time: Feb 18 00:20:37 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	35894	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	181214	5.00	ng	-0.01
8) Acenaphthene-d10	13.35	164	120556	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	287471	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	346771	5.00	ng	0.00
24) Perylene-d12	22.09	264	353819	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.92	112	4912	0.78	ng	-0.03
3) Phenol-d6	6.58	99	7173	0.79	ng	0.00
5) Nitrobenzene-d5	8.19	82	3903	0.59	ng	0.02
9) 2,4,6-Tribromophenol	14.89	330	2113	0.68	ng	-0.01
10) 2-Fluorobiphenyl	12.00	172	12983	0.41	ng	0.00
20) Terphenyl-d14	18.61	244	23133	0.45	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.58	128	3617	0.09	ng	# 88
7) 2-Methylnaphthalene	11.12	142	6770	0.39	ng	96
11) Acenaphthylene	13.09	152	57535	0.44	ng	99
12) Acenaphthene	13.41	154	12280	0.37	ng	96
13) Fluorene	14.40	166	41385	0.97	ng	98
15) Phenanthrene	16.12	178	325536	4.31	ng	99
16) Anthracene	16.20	178	82316m	1.30	ng	
17) Fluoranthene	18.08	202	271363	3.46	ng	99
19) Pyrene	18.47	202	243095	3.24	ng	99
21) Benzo(a)anthracene	20.18	228	96584	1.38	ng	96
22) Chrysene	20.24	228	98246	1.09	ng	96
23) Indeno(1,2,3-cd)pyrene	23.68	276	34795	0.59	ng	99
25) Benzo(b)fluoranthene	21.54	252	53922	0.74	ng	# 93
26) Benzo(k)fluoranthene	21.56	252	62768	0.73	ng	# 92
27) Benzo(a)pyrene	21.99	252	69064	0.99	ng	# 94
28) Dibenzo(a,h)anthracene	23.63	278	12740	0.40	ng	# 77
29) Benzo(g,h,i)perylene	24.23	276	34430	0.52	ng	93

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

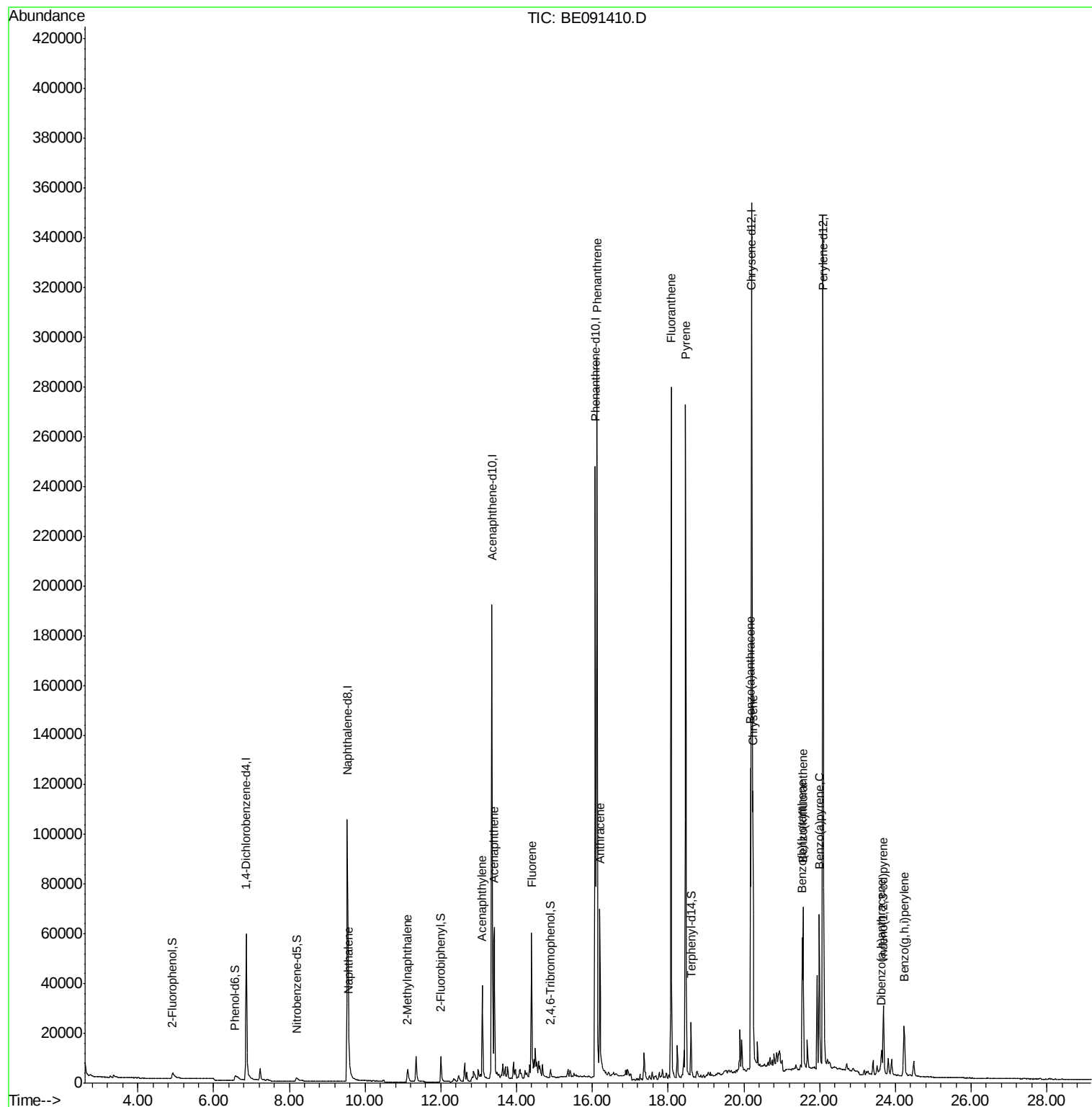
Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
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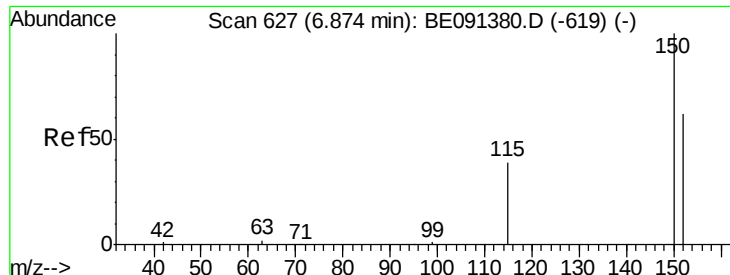
Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005DL

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Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.86 min Scan# 625

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

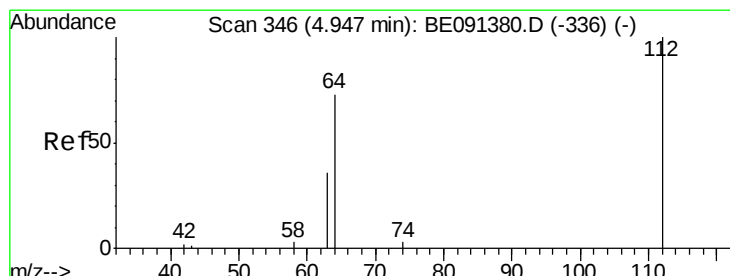
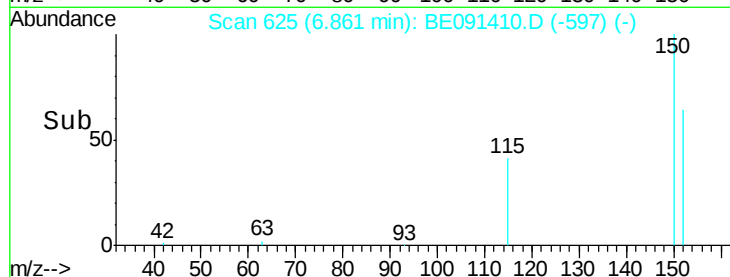
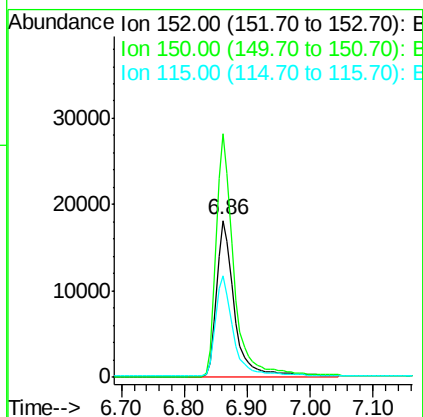
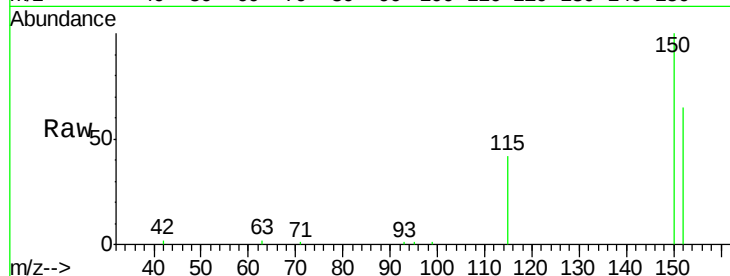
ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:	152	Resp:	35894
Ion Ratio	Lower	Upper	
152	100		
150	155.0	128.9	193.3
115	64.4	50.9	76.3

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#2

2-Fluorophenol

Concen: 0.78 ng

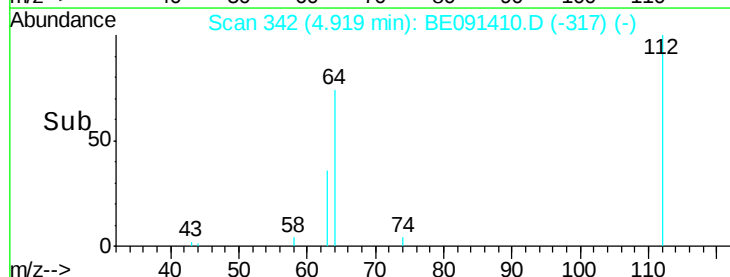
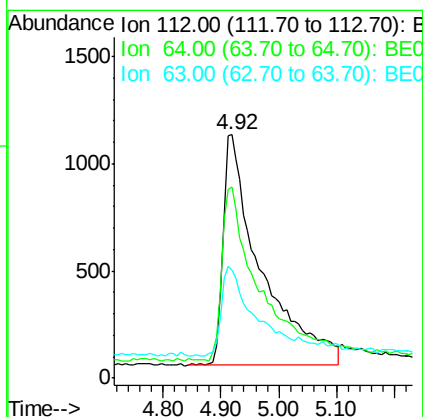
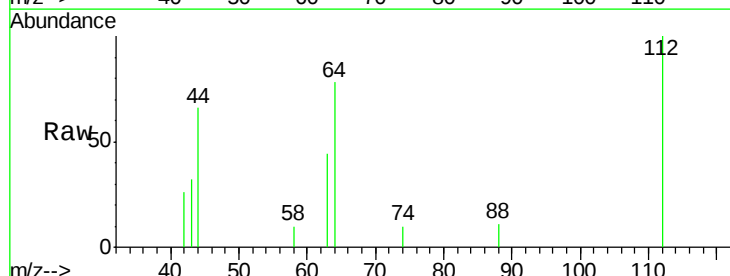
RT: 4.92 min Scan# 342

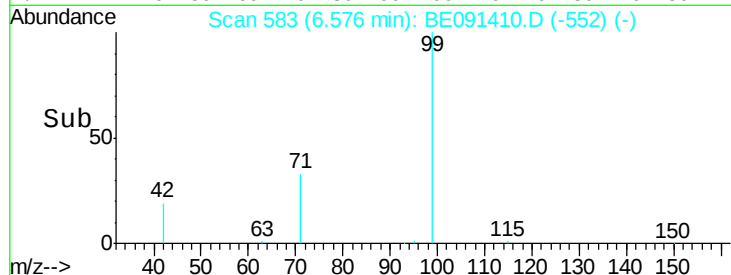
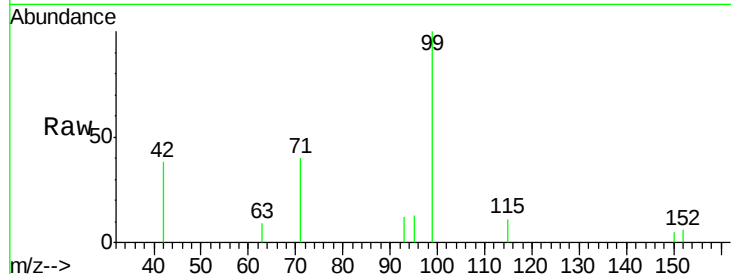
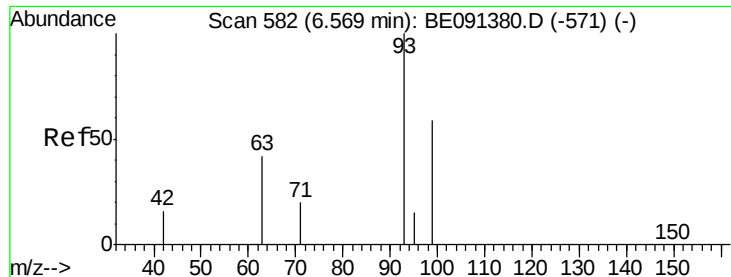
Delta R.T. -0.03 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	112	Resp:	4912
Ion Ratio	Lower	Upper	
112	100		
64	75.2	60.5	90.7
63	34.2	29.8	44.8





#3

Phenol-d6

Concen: 0.79 ng

RT: 6.58 min Scan# 583

Delta R.T. 0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tot Ion:	99	Resp:	7173
Ion	Ratio	Lower	Upper
99	100		
42	10.6	13.3	19.9#
71	37.6	25.6	38.4

Instrument :

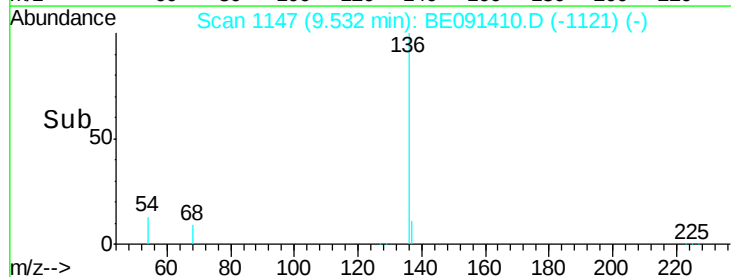
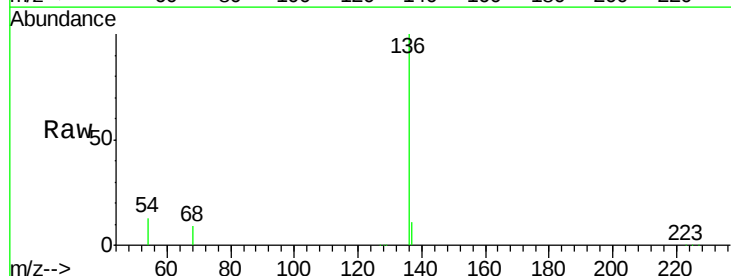
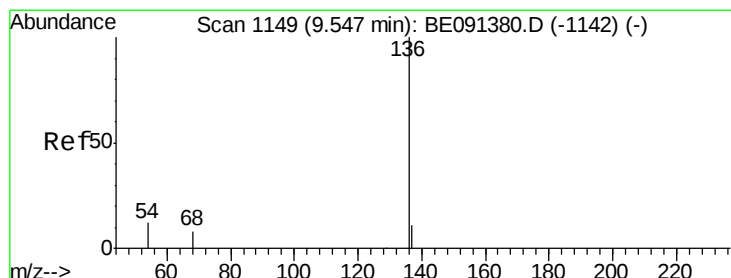
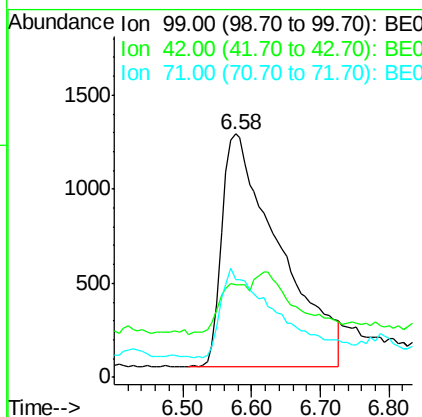
BNA_E

ClientSampleId :

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#4

Naphthalene-d8

Concen: 5.00 ng

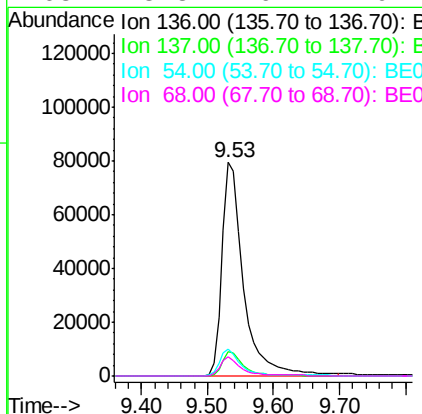
RT: 9.53 min Scan# 1147

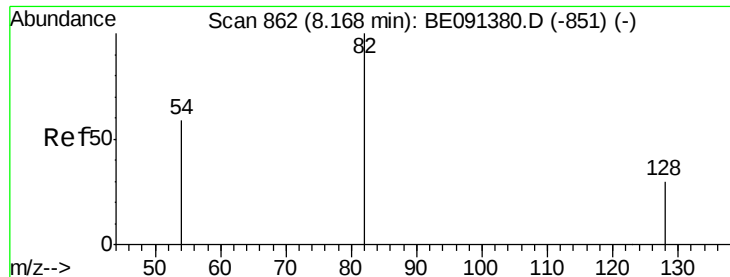
Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	136	Resp:	181214
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	12.9	9.3	13.9
68	8.8	6.7	10.1





#5

Nitrobenzene-d5

Concen: 0.59 ng

RT: 8.19 min Scan# 866

Delta R.T. 0.02 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

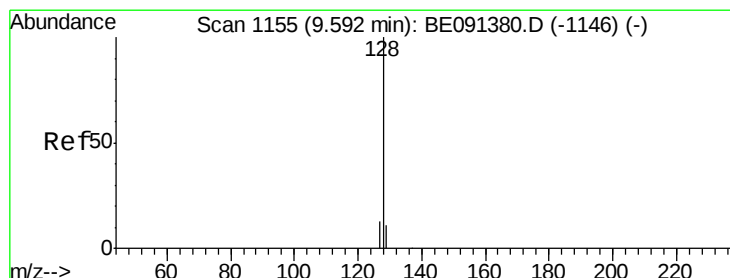
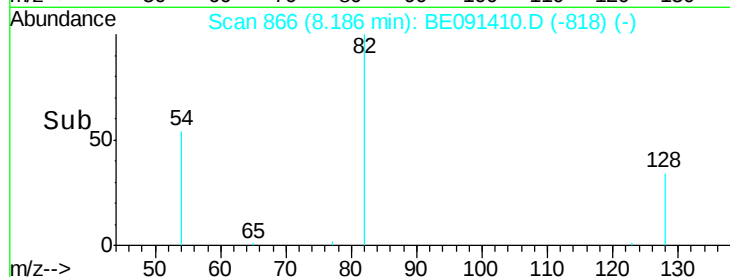
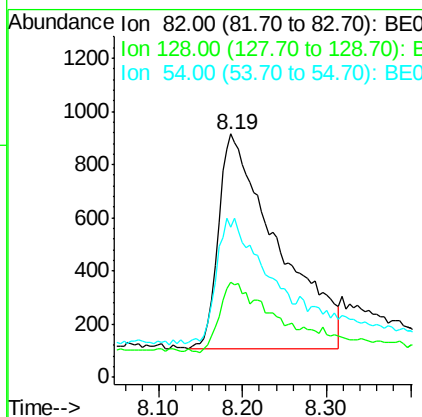
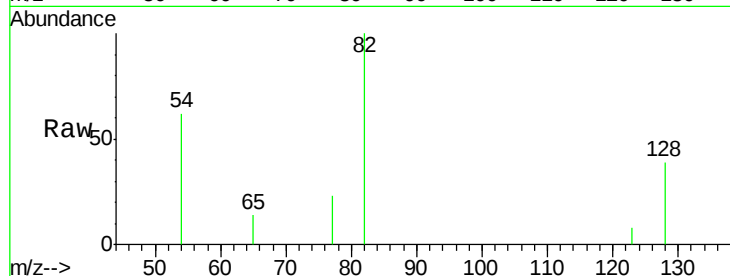
ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:	82	Resp:	3903
Ion Ratio	Lower	Upper	
82	100		
128	39.3	25.0	37.4#
54	61.7	48.1	72.1

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#6

Naphthalene

Concen: 0.09 ng

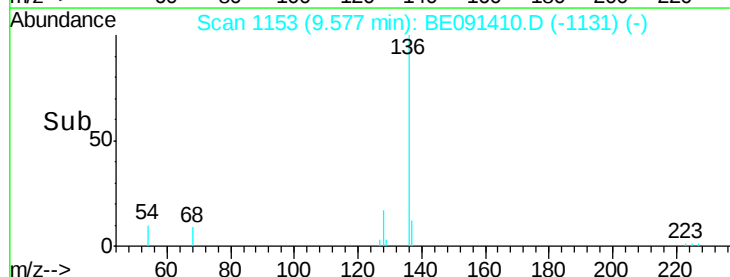
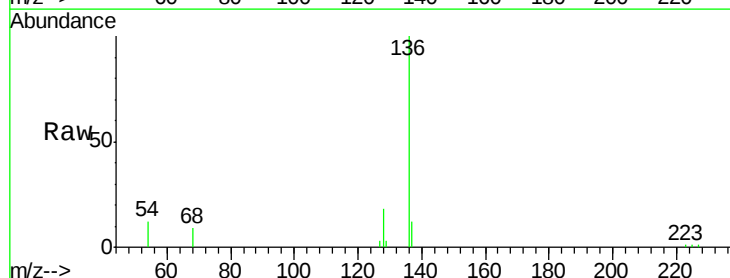
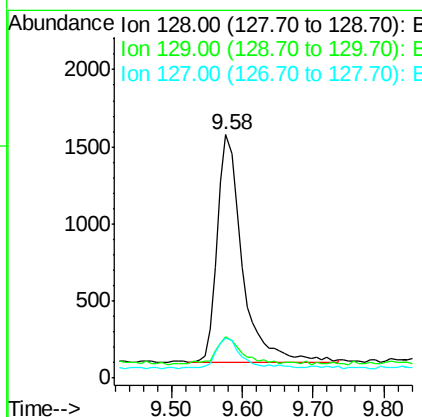
RT: 9.58 min Scan# 1153

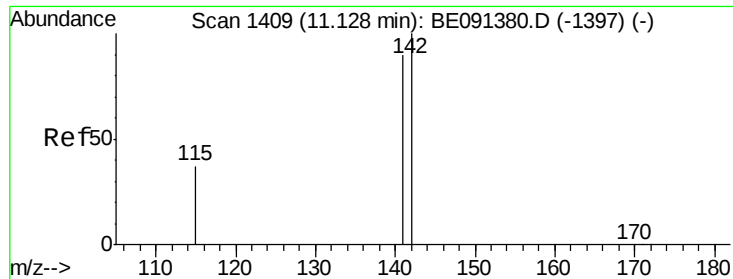
Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	128	Resp:	3617
Ion Ratio	Lower	Upper	
128	100		
129	17.2	9.1	13.7#
127	16.5	10.5	15.7#





#7

2-Methylnaphthalene

Concen: 0.39 ng

RT: 11.12 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:142 Resp: 6770

Ion Ratio Lower Upper

142 100

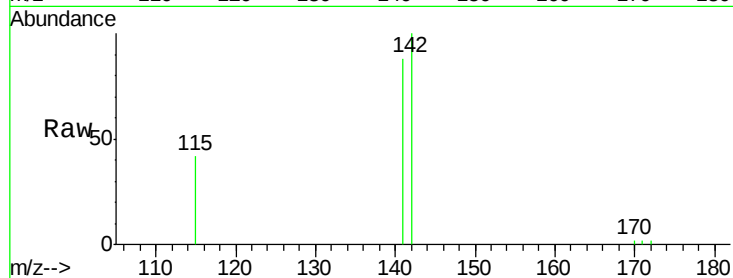
141 88.2 72.3 108.5

115 42.5 30.5 45.7

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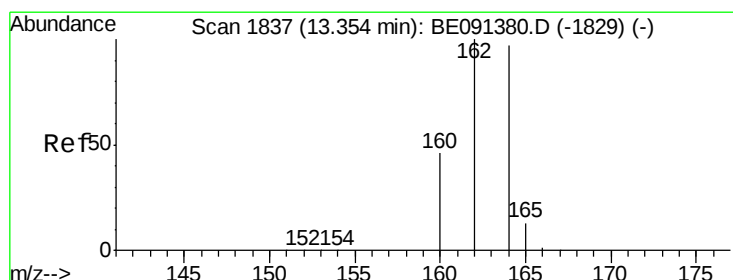
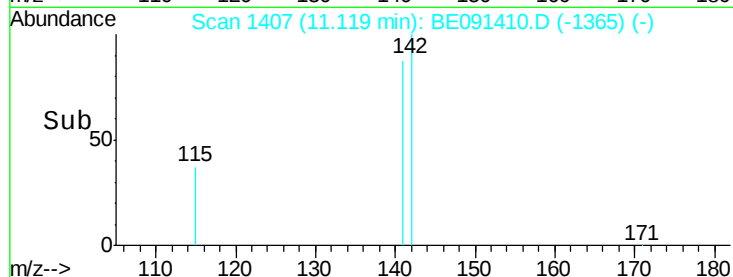
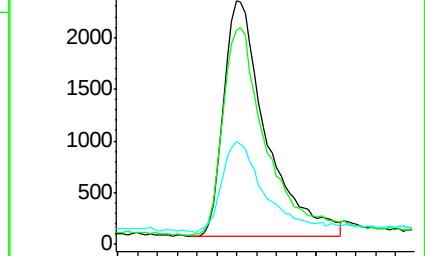
2/18/2016 9:53:14 AM



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

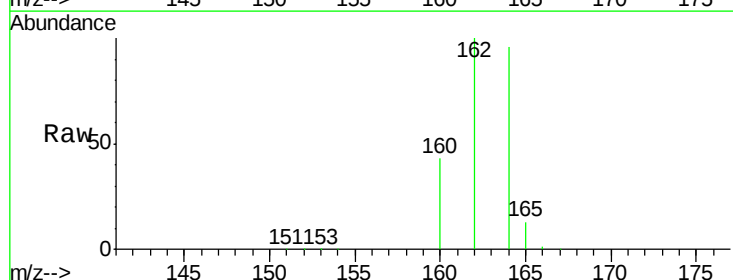
Tgt Ion:164 Resp: 120556

Ion Ratio Lower Upper

164 100

162 103.7 82.2 123.2

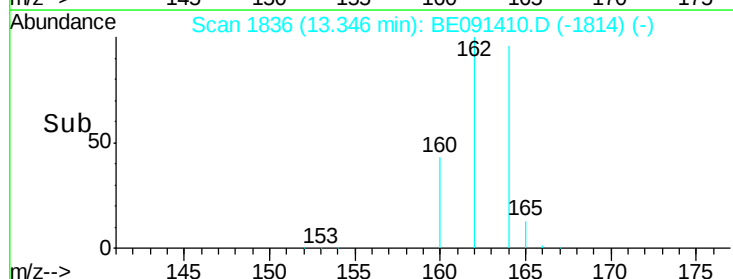
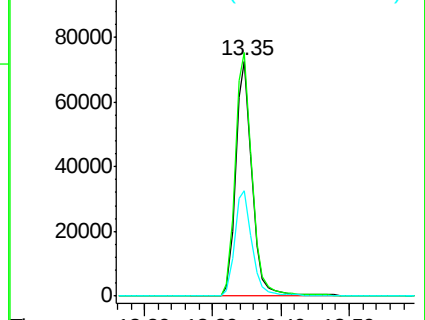
160 44.7 37.8 56.8

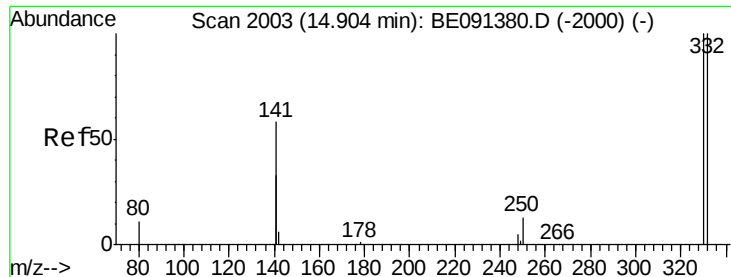


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2,4,6-Tribromophenol

Concen: 0.68 ng

RT: 14.89 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

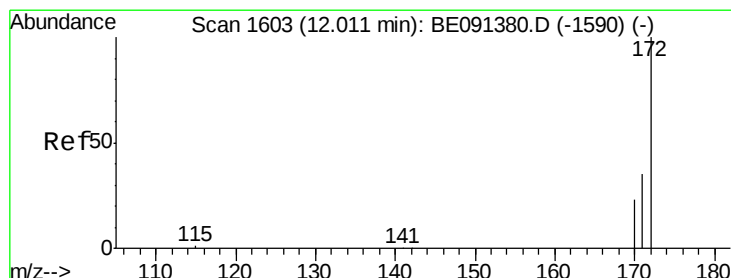
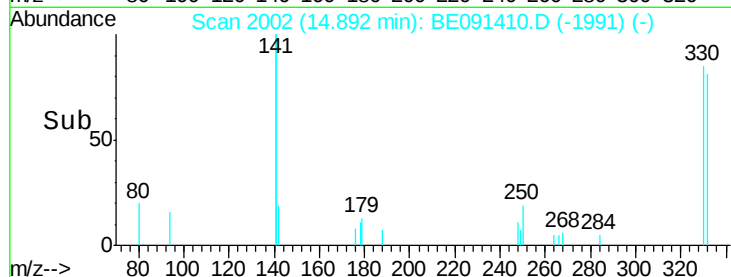
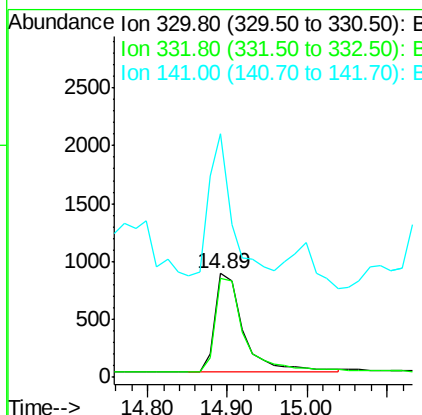
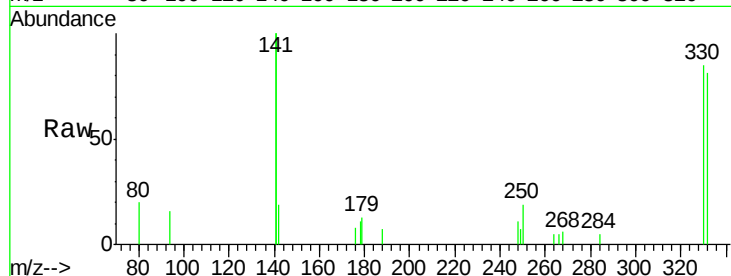
ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:	330	Resp:	2113
Ion Ratio	Lower	Upper	
330	100		
332	96.2	78.8	118.2
141	114.4	105.1	157.7

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#10

2-Fluorobiphenyl

Concen: 0.41 ng

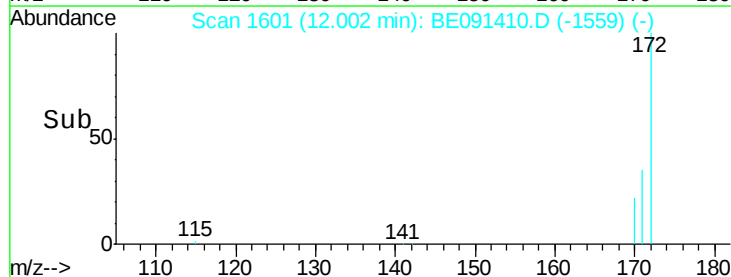
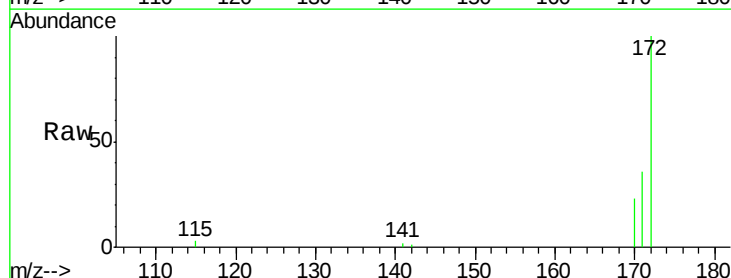
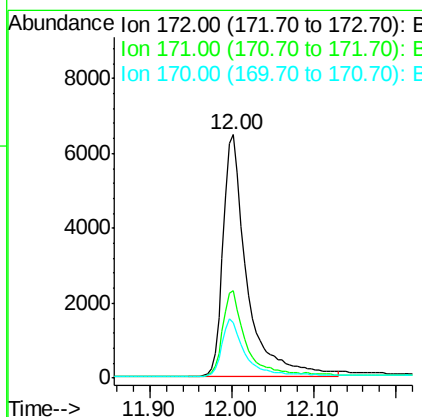
RT: 12.00 min Scan# 1601

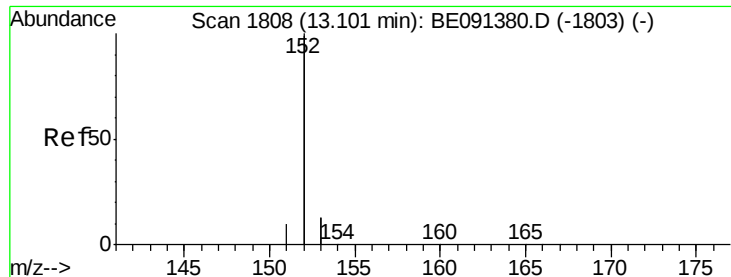
Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	172	Resp:	12983
Ion Ratio	Lower	Upper	
172	100		
171	35.8	27.8	41.8
170	23.0	18.6	28.0





#11

Acenaphthylene

Concen: 0.44 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

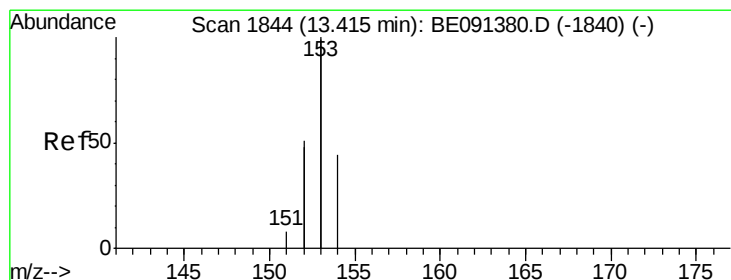
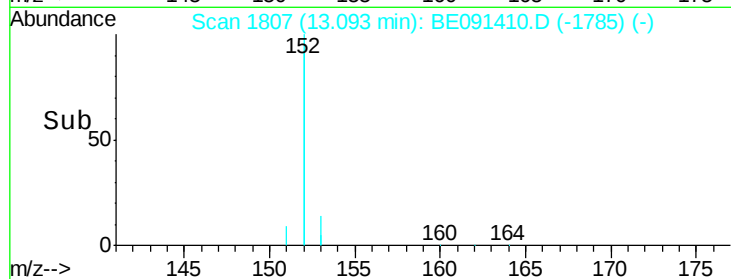
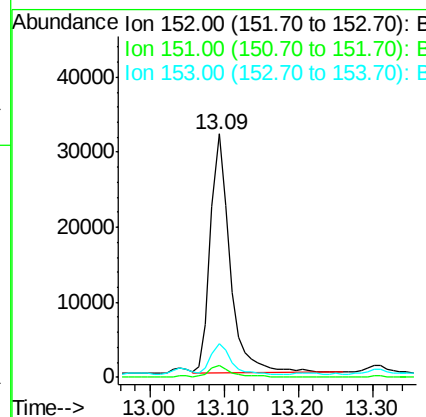
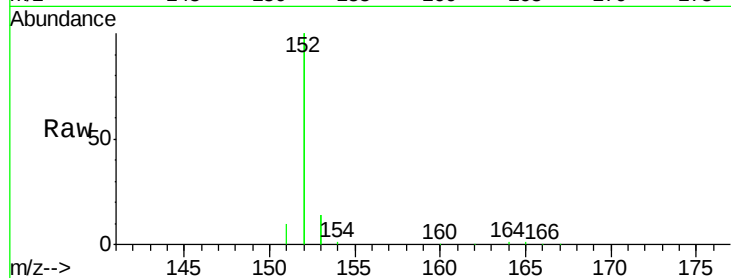
ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:	152	Resp:	57535
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.8	5.8
153	12.5	10.2	15.4

Manual Integrations
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#12

Acenaphthene

Concen: 0.37 ng

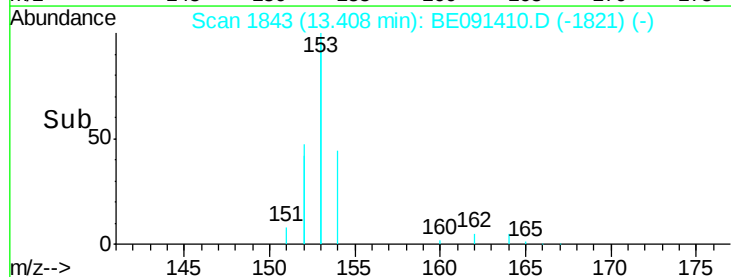
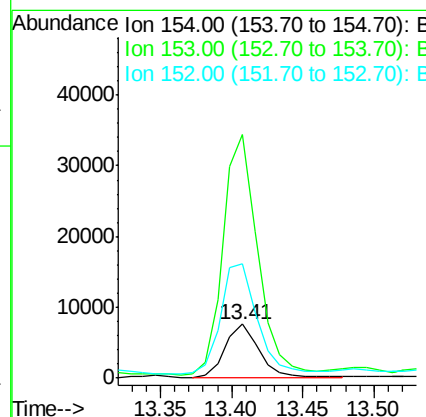
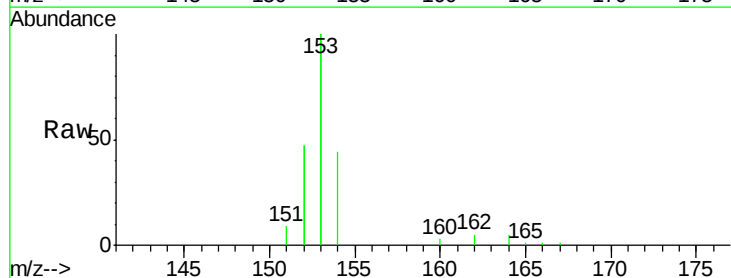
RT: 13.41 min Scan# 1843

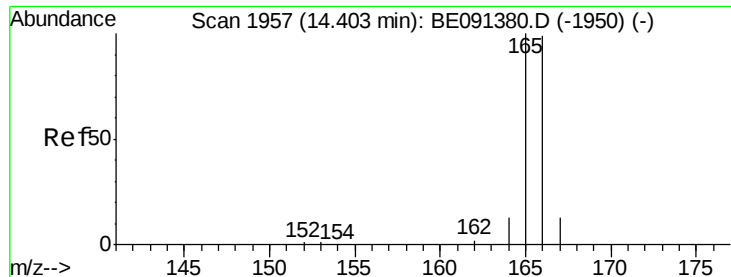
Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	154	Resp:	12280
Ion Ratio	Lower	Upper	
154	100		
153	464.3	369.8	554.8
152	226.9	194.4	291.6





#13

Fluorene

Concen: 0.97 ng

RT: 14.40 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:166 Resp: 41385

Ion Ratio Lower Upper

166 100

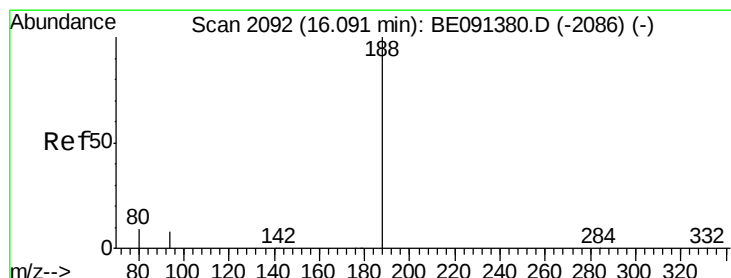
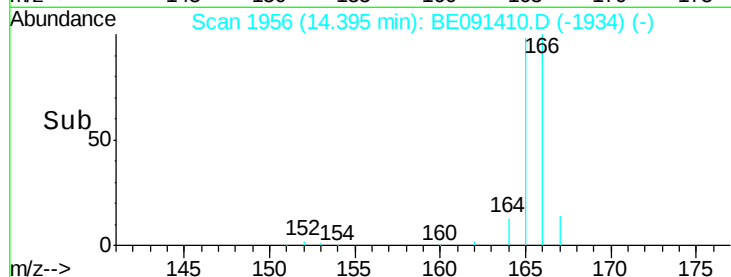
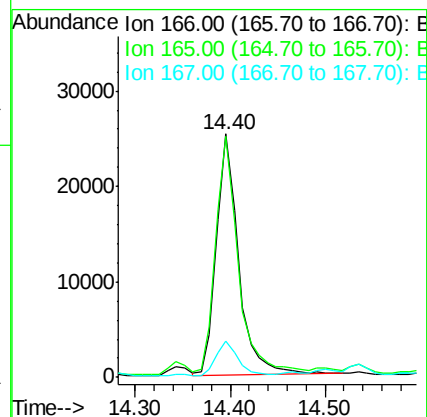
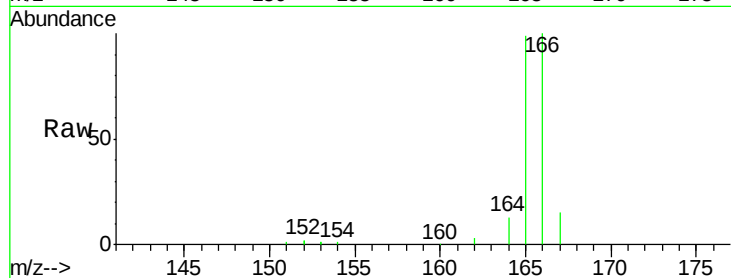
165 101.2 79.3 118.9

167 13.3 10.6 16.0

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#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

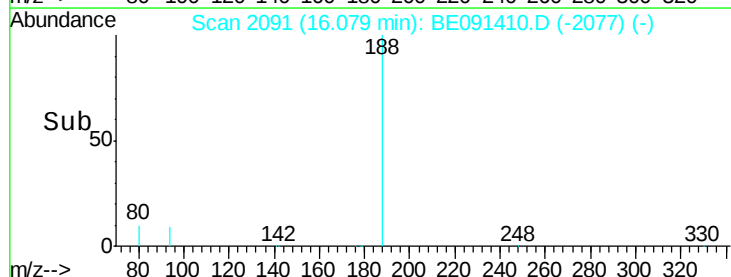
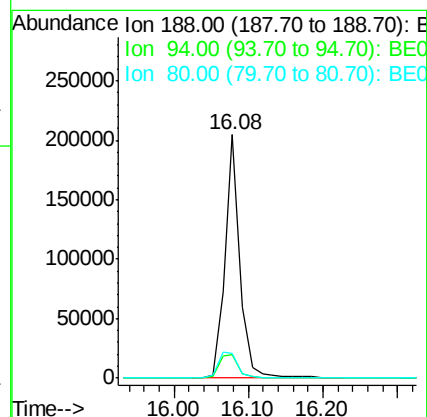
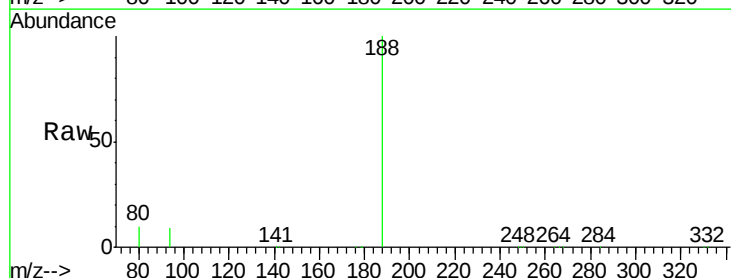
Tgt Ion:188 Resp: 287471

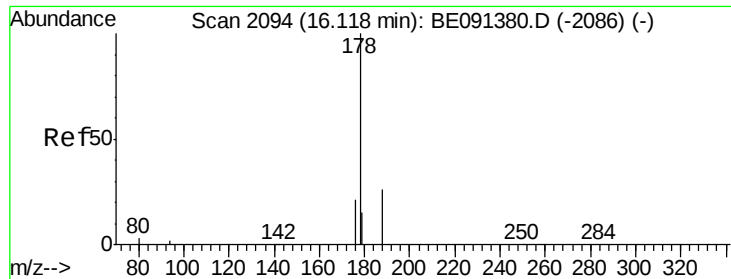
Ion Ratio Lower Upper

188 100

94 9.5 6.6 10.0

80 10.3 7.0 10.6





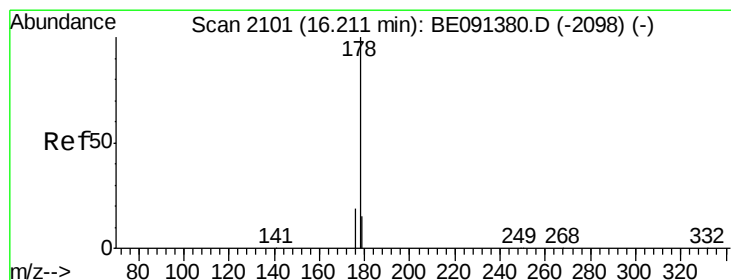
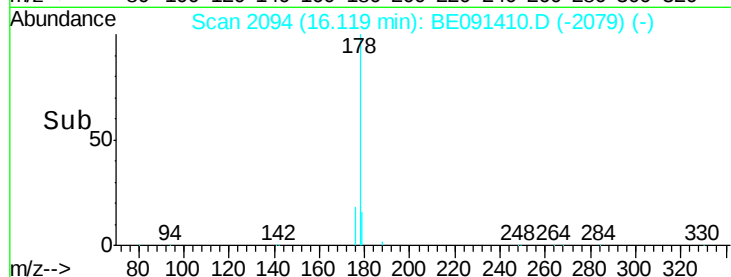
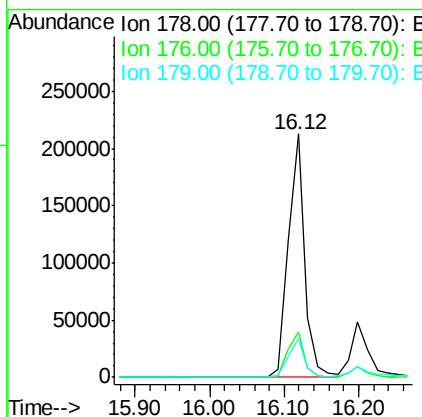
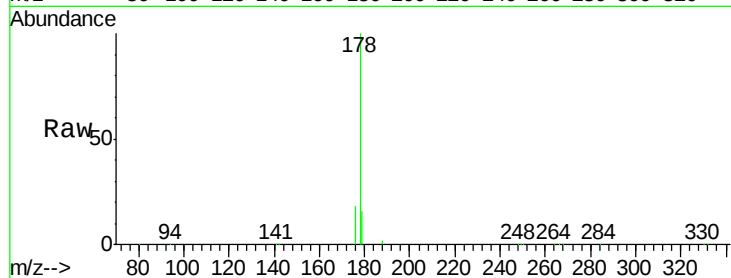
#15
Phenanthrene
Concen: 4.31 ng
RT: 16.12 min Scan# 2094
Delta R.T. 0.00 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.6	12.7	19.1

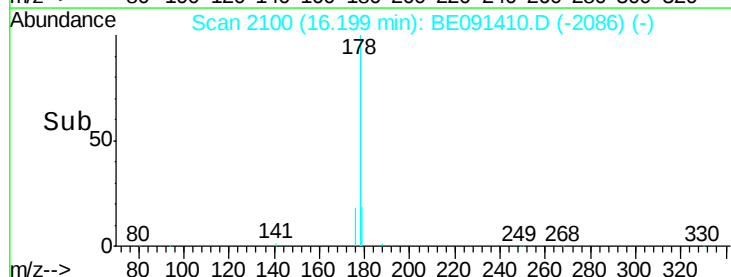
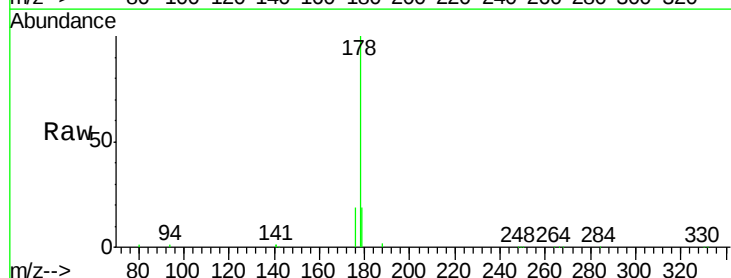
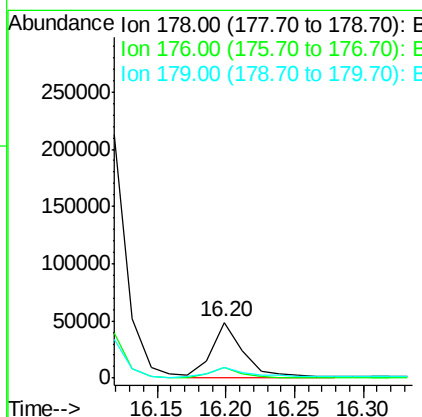
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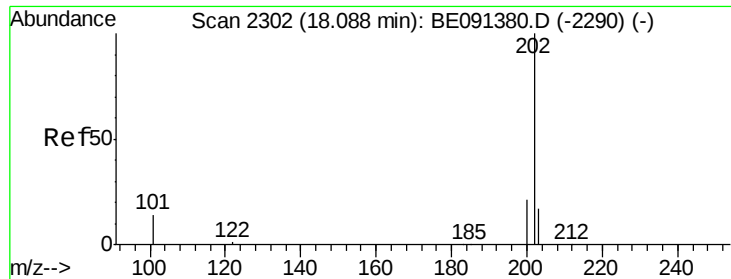
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#16
Anthracene
Concen: 1.30 ng m
RT: 16.20 min Scan# 2100
Delta R.T. -0.01 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	74.7	14.8	22.2#
179	61.6	12.1	18.1#





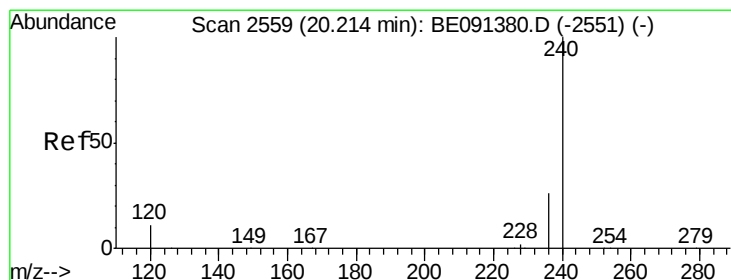
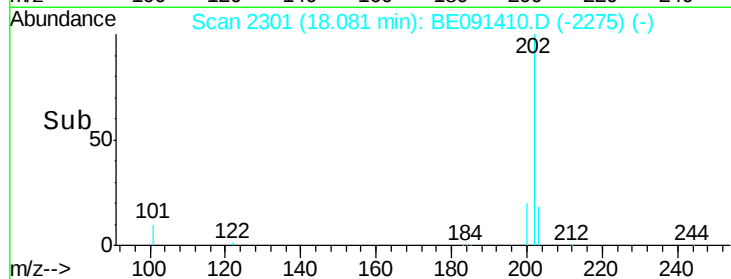
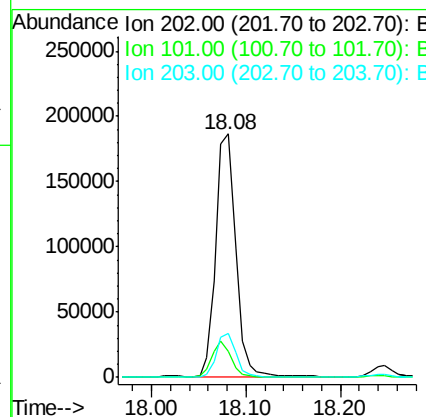
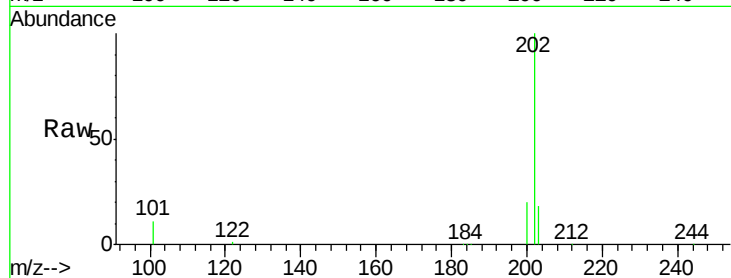
#17
 Fluoranthene
 Concen: 3.46 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.01 min
 Lab File: BE091410.D
 Acq: 17 Feb 2016 18:45

Instrument :
 BNA_E
 ClientSampleId :
 LIBERTY-SF-005DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.9	10.5	15.7
203	17.6	13.9	20.9

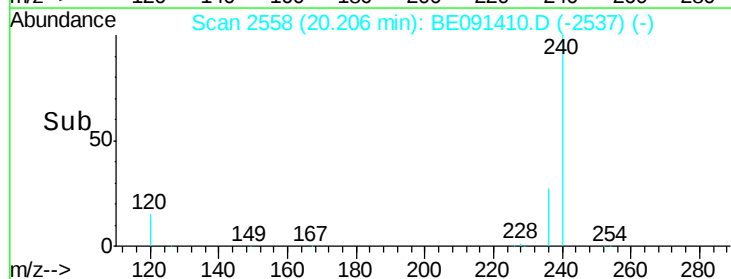
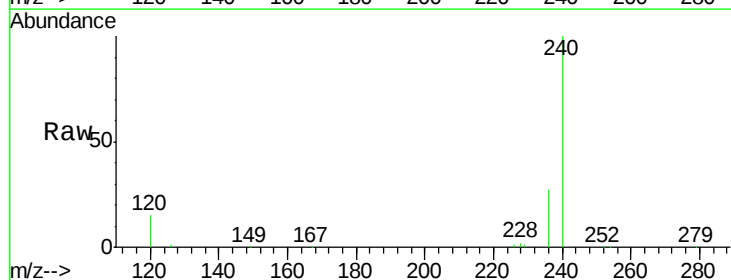
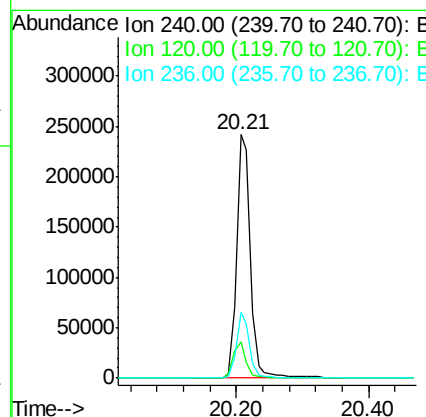
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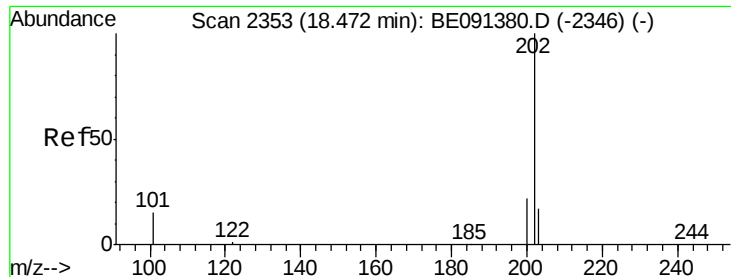
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#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2558
 Delta R.T. -0.01 min
 Lab File: BE091410.D
 Acq: 17 Feb 2016 18:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.7	8.9	13.3#
236	26.8	21.0	31.4





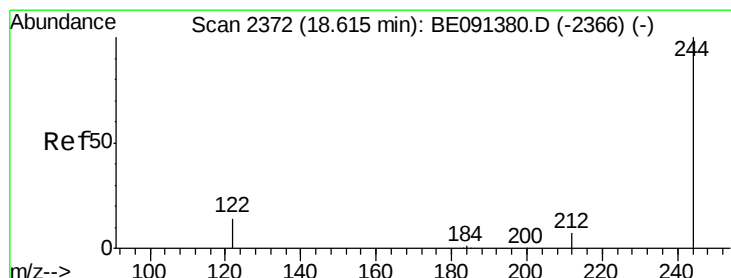
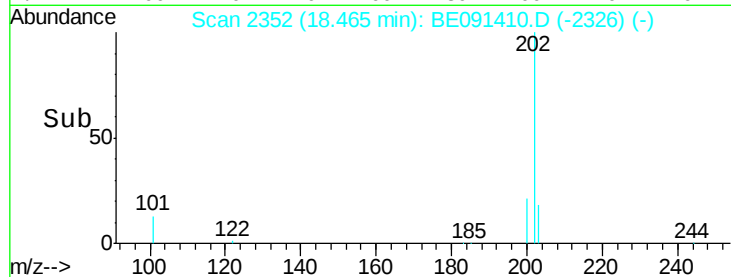
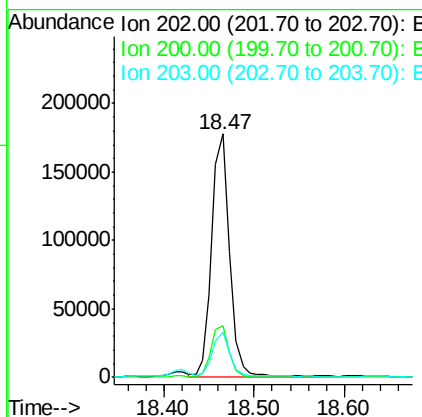
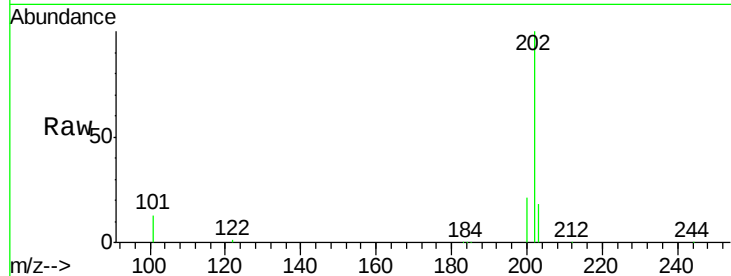
#19
 Pvrene
 Concen: 3.24 ng
 RT: 18.47 min Scan# 2352
 Delta R.T. -0.01 min
 Lab File: BE091410.D
 Acq: 17 Feb 2016 18:45

Instrument :
 BNA_E
 ClientSampleId :
 LIBERTY-SF-005DL

Tot Ion:	202	Resp:	243095
Ion Ratio	Lower	Upper	
202	100		
200	21.4	16.8	25.2
203	17.4	14.0	21.0

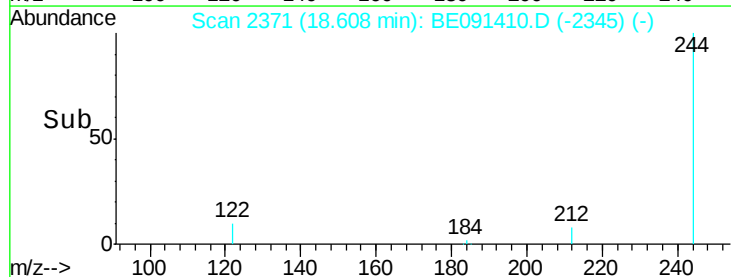
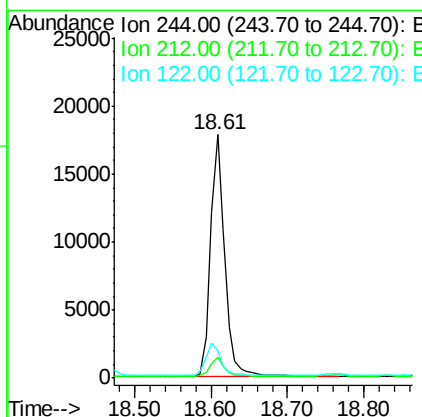
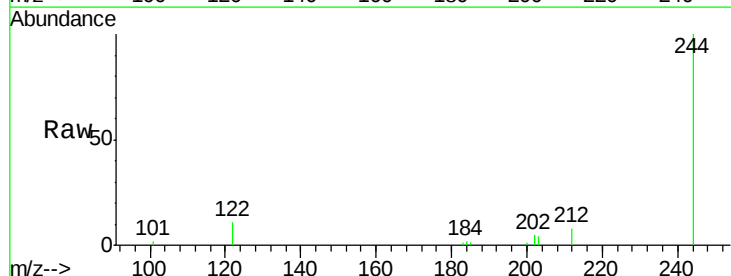
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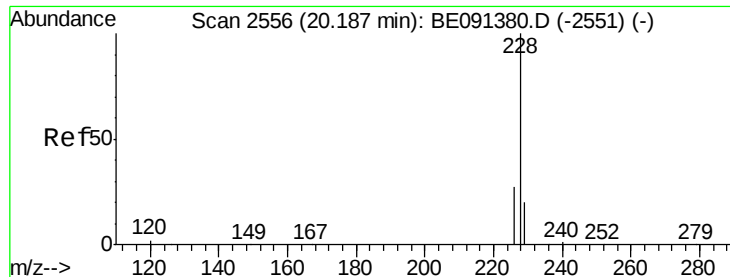
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#20
 Terphenyl-d14
 Concen: 0.45 ng
 RT: 18.61 min Scan# 2371
 Delta R.T. -0.01 min
 Lab File: BE091410.D
 Acq: 17 Feb 2016 18:45

Tgt Ion:	244	Resp:	23133
Ion Ratio	Lower	Upper	
244	100		
212	8.5	6.1	9.1
122	11.2	11.0	16.6





#21

Benzo(a)anthracene

Concen: 1.38 ng

RT: 20.18 min Scan# 2555

Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

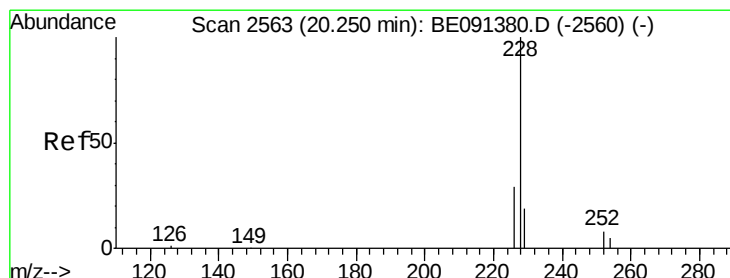
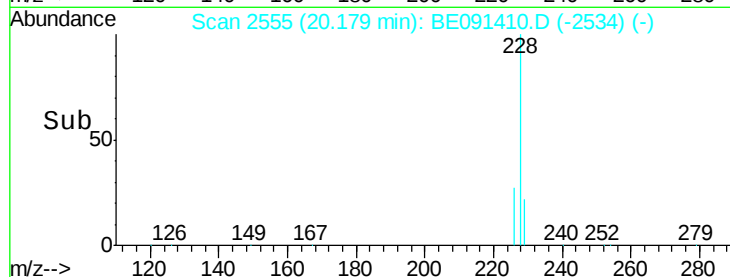
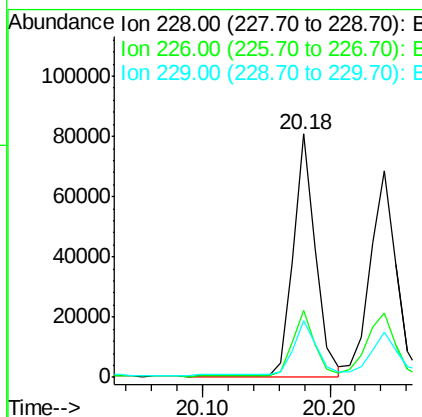
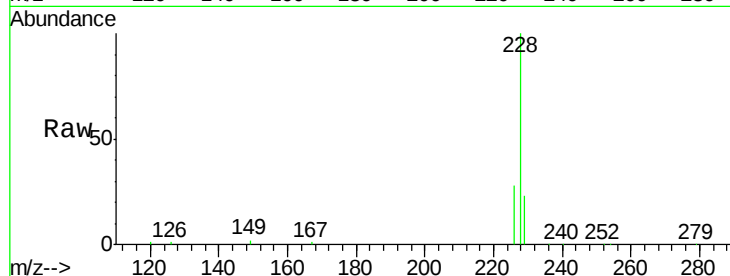
ClientSampleId :

LIBERTY-SF-005DL

Tot Ion:	228	Resp:	96584
Ion Ratio	Lower	Upper	
228	100		
226	27.7	21.7	32.5
229	23.3	16.1	24.1

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#22

Chrysene

Concen: 1.09 ng

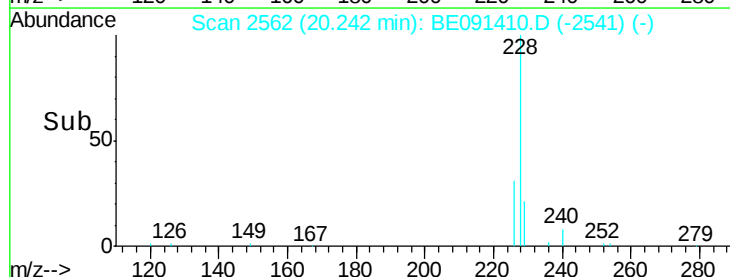
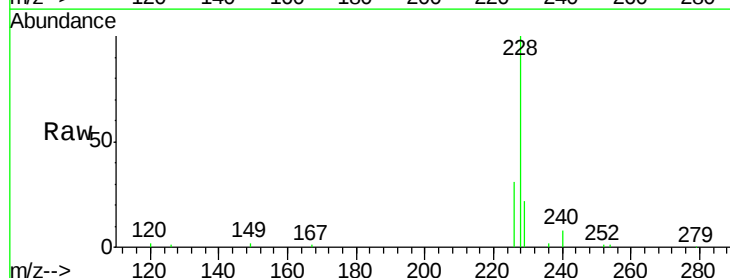
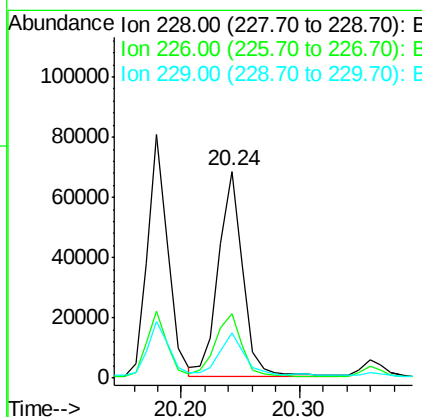
RT: 20.24 min Scan# 2562

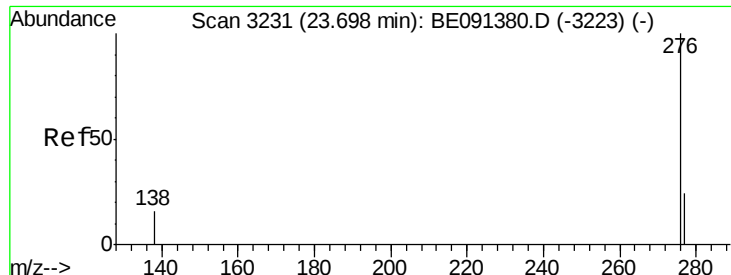
Delta R.T. -0.01 min

Lab File: BE091410.D

Acq: 17 Feb 2016 18:45

Tgt Ion:	228	Resp:	98246
Ion Ratio	Lower	Upper	
228	100		
226	31.2	23.4	35.0
229	21.6	15.7	23.5





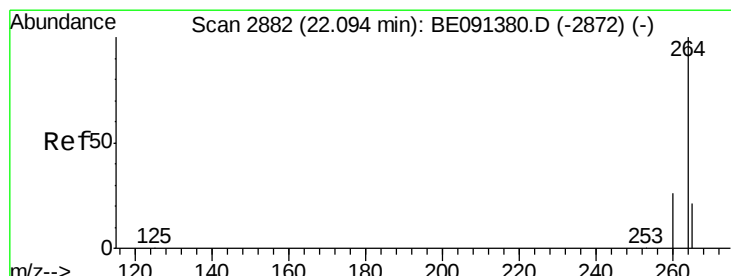
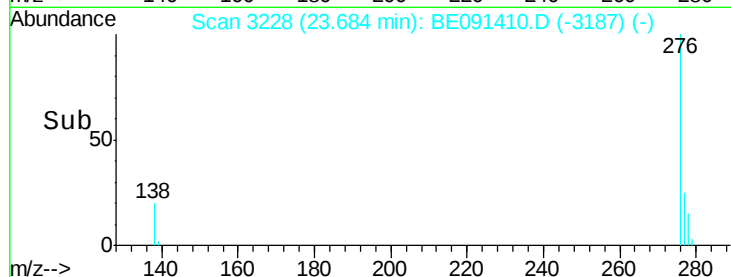
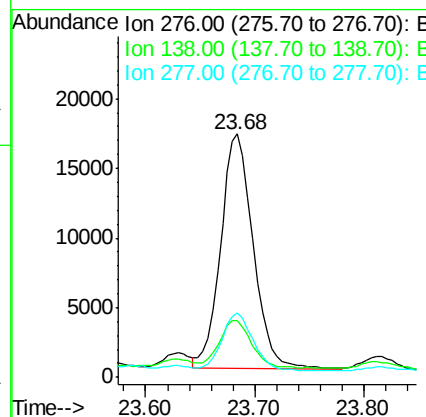
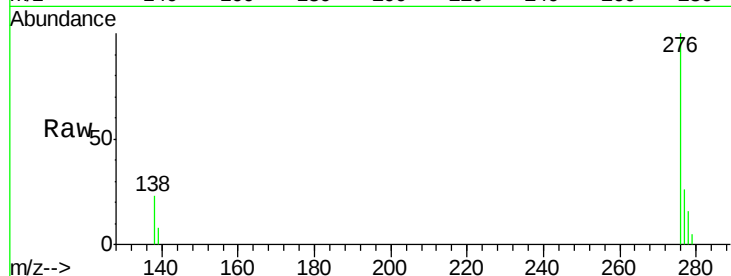
#23
Indeno(1,2,3-cd)pyrene
Concen: 0.59 ng
RT: 23.68 min Scan# 3228
Delta R.T. -0.01 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.7	16.6	25.0
277	23.3	19.0	28.6

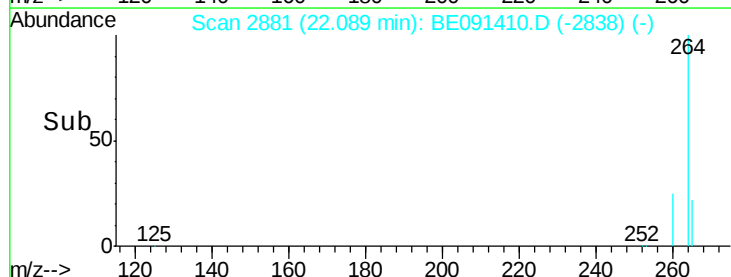
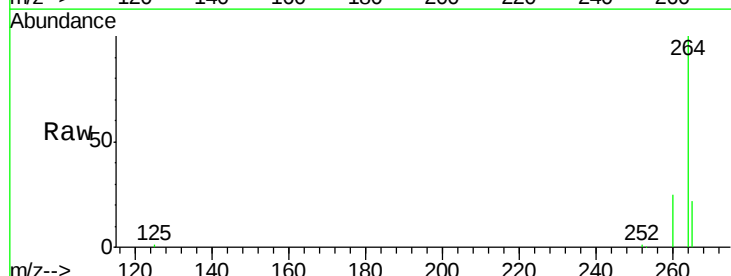
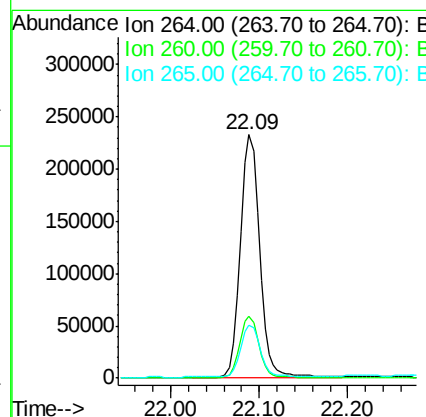
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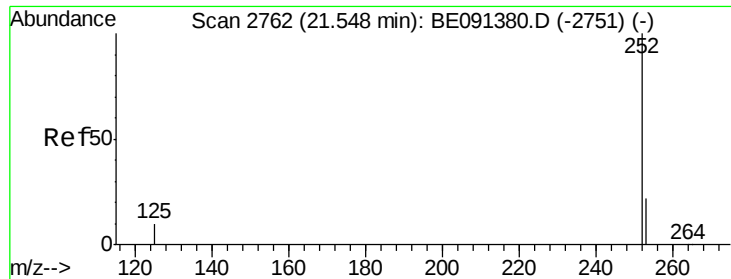
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#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2881
Delta R.T. -0.01 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.7	31.1
265	21.9	17.2	25.8





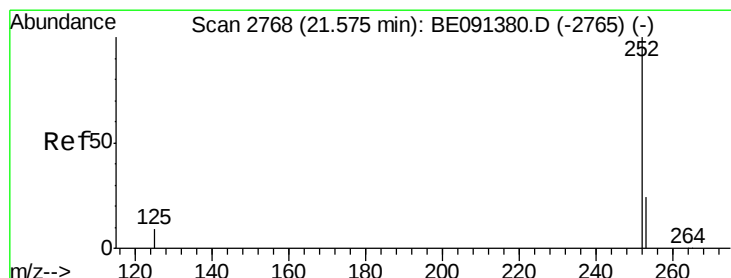
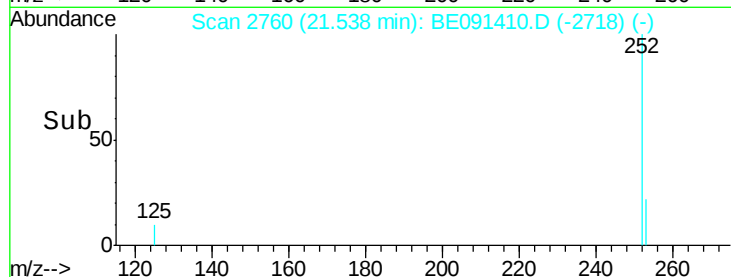
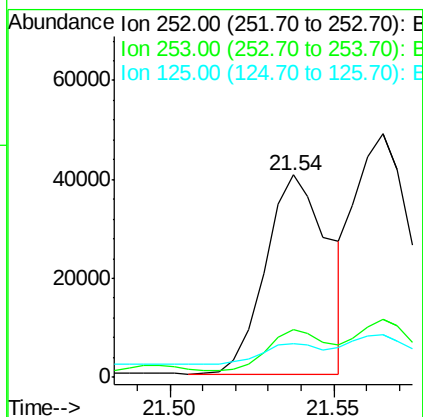
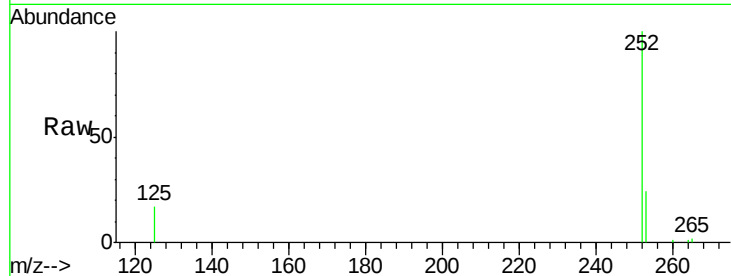
#25
Benzo(b)fluoranthene
Concen: 0.74 ng
RT: 21.54 min Scan# 2760
Delta R.T. -0.01 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	16.6	8.3	12.5#

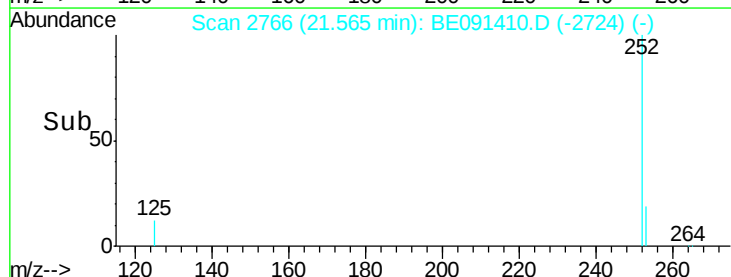
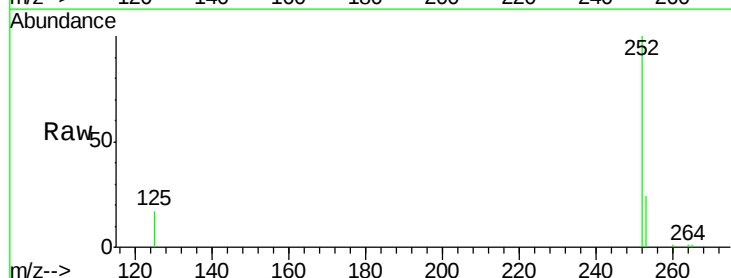
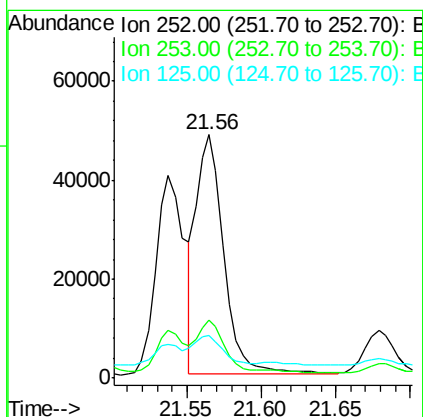
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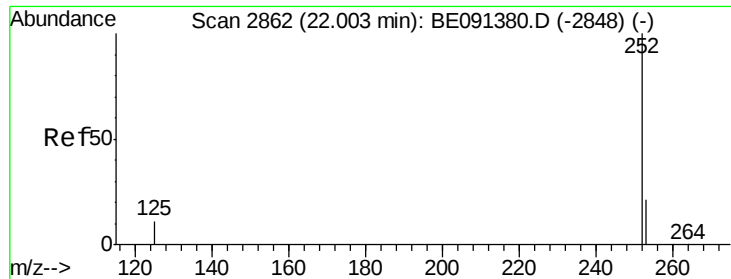
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#26
Benzo(k)fluoranthene
Concen: 0.73 ng
RT: 21.56 min Scan# 2766
Delta R.T. -0.01 min
Lab File: BE091410.D
Acq: 17 Feb 2016 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	17.4	8.2	12.4#





#27

Benzo(a)pyrene

Concen: 0.99 ng

RT: 21.99 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BE091410.D

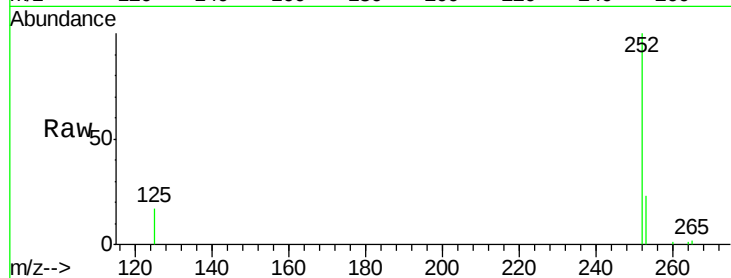
Acq: 17 Feb 2016 18:45

Instrument :

BNA_E

ClientSampleId :

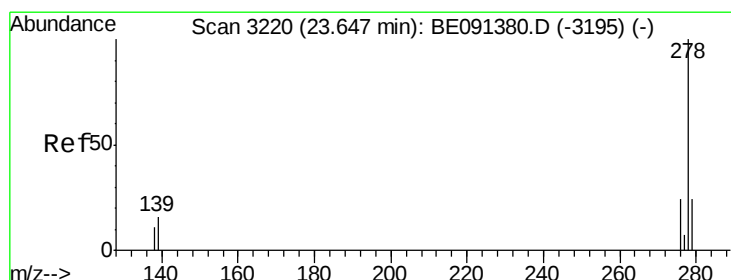
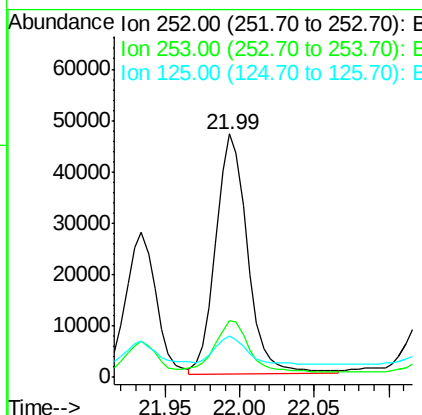
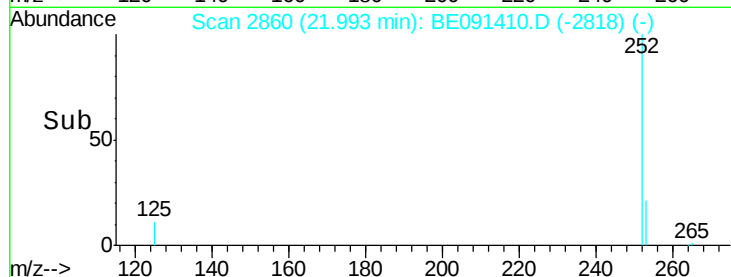
LIBERTY-SF-005DL



Tot Ion:	252	Resp:	69064
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.5	26.3
125	16.7	9.4	14.0#

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#28

Dibenzo(a,h)anthracene

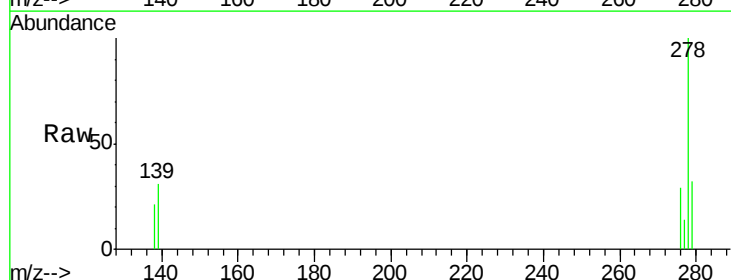
Concen: 0.40 ng

RT: 23.63 min Scan# 3217

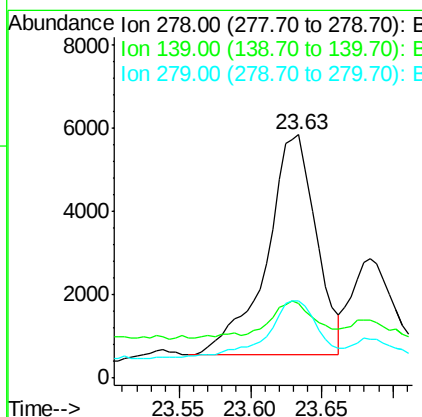
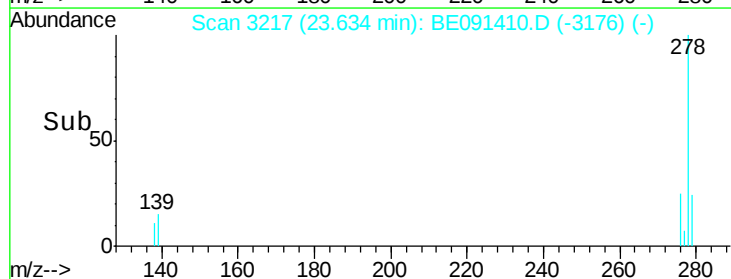
Delta R.T. -0.01 min

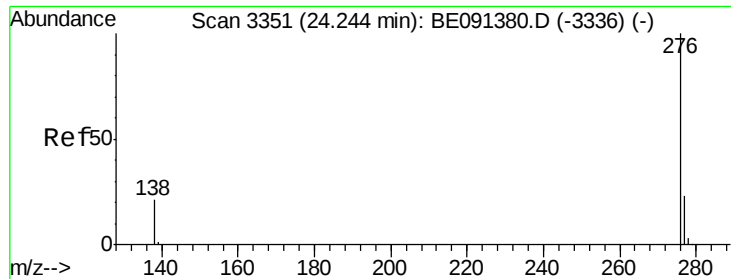
Lab File: BE091410.D

Acq: 17 Feb 2016 18:45



Tgt Ion:	278	Resp:	12740
Ion Ratio	Lower	Upper	
278	100		
139	30.7	13.0	19.4#
279	32.0	19.2	28.8#





#29
 Benzo(a,h,i)perylene
 Concen: 0.52 ng
 RT: 24.23 min Scan# 3348
 Delta R.T. -0.01 min
 Lab File: BE091410.D
 Acq: 17 Feb 2016 18:45

Instrument :
 BNA_E
 ClientSampleId :
 LIBERTY-SF-005DL

Tot Ion:	276	Resp:	34430
Ion Ratio	Lower	Upper	
276	100		
277	26.1	18.9	28.3
138	25.5	17.0	25.6

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