

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE091502.D
 Acq On : 21 Mar 2016 16:55
 Operator : UM/SJ
 Sample : MDL-07-W
 Misc : 0.08PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W

Manual Integrations
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 3/22/2016 11:28:32 AM

Quant Time: Mar 21 17:42:26 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	59065	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	257831	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	147720	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	378233	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	484494	5.00	ng	0.00
28) Perylene-d12	23.80	264	443925	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	100622	7.41	ng	0.00
5) Phenol-d6	6.99	99	134611	7.60	ng	0.00
7) Nitrobenzene-d5	8.98	82	48981	3.54	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	33974	6.29	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	165512	4.45	ng	0.00
24) Terphenyl-d14	19.78	244	274119	4.70	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	737	0.10	ng	# 72
3) n-Nitrosodimethylamine	3.70	42	322	0.03	ng	# 95
8) Naphthalene	10.65	128	3638	0.06	ng	# 97
9) 2-Methylnaphthalene	12.26	142	2141	0.05	ng	# 85
13) Acenaphthylene	14.15	152	2434m	0.17	ng	
14) Acenaphthene	14.50	154	2360	0.05	ng	91
15) Fluorene	15.48	166	2942	0.05	ng	100
17) Hexachlorobenzene	16.48	284	943	0.06	ng	97
18) Pentachlorophenol	16.83	266	465	0.25	ng	# 90
19) Phenanthrene	17.22	178	6414m	0.06	ng	
20) Anthracene	17.31	178	4540	0.05	ng	98
21) Fluoranthene	19.22	202	6027	0.05	ng	97
23) Pyrene	19.59	202	6504	0.05	ng	98
25) Benzo(a)anthracene	21.31	228	8584m	0.06	ng	
26) Chrysene	21.36	228	9894m	0.07	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	6939	0.05	ng	98
29) Benzo(b)fluoranthene	23.03	252	9078	0.06	ng	# 89
30) Benzo(k)fluoranthene	23.09	252	7653	0.05	ng	# 91
31) Benzo(a)pyrene	23.68	252	5997	0.05	ng	# 81
32) Dibenzo(a,h)anthracene	26.41	278	5671	0.05	ng	# 92
33) Benzo(g,h,i)perylene	27.17	276	6242	0.05	ng	96

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

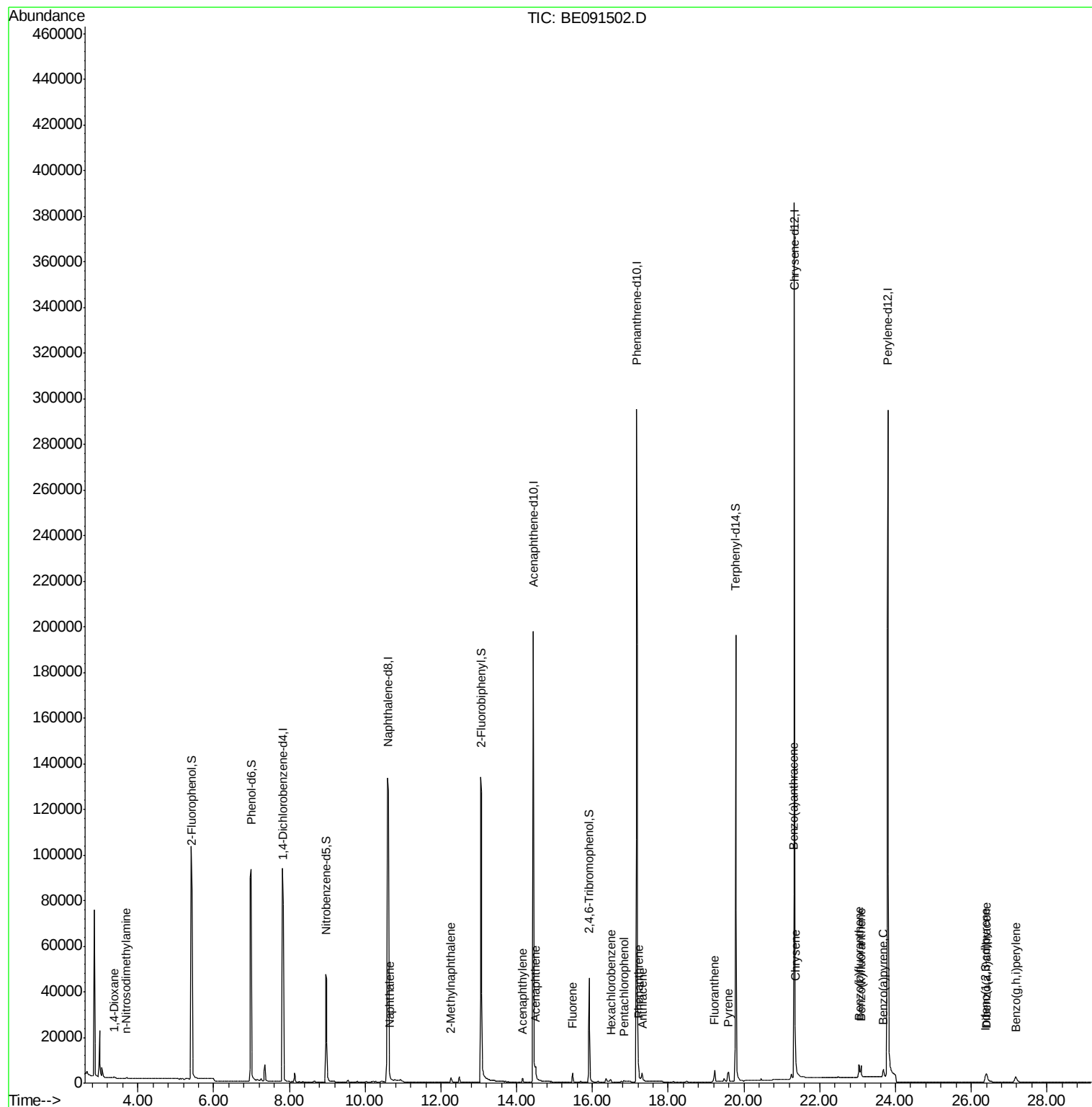
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

Lab File: BE091502.D

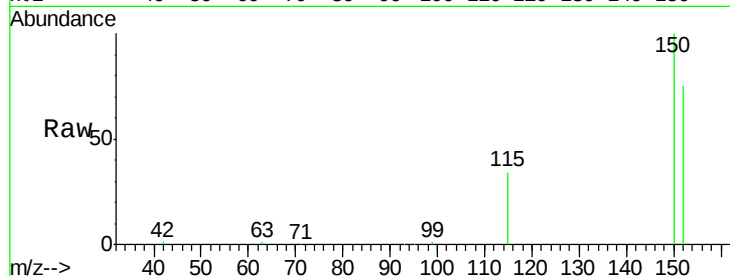
Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :

MDL-07-W



Tgt Ion: 152 Resp: 59065

Ion Ratio Lower Upper

152 100

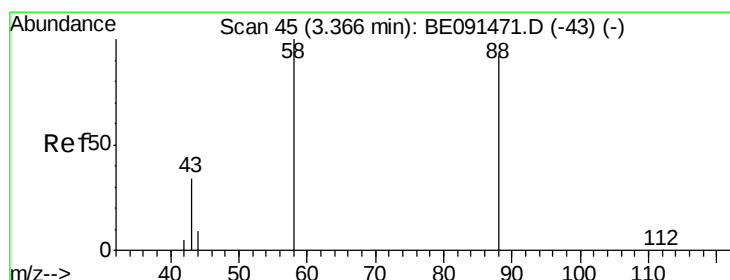
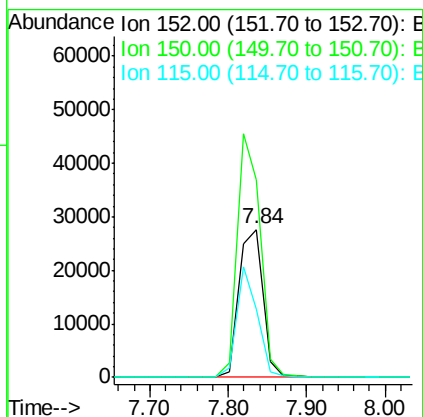
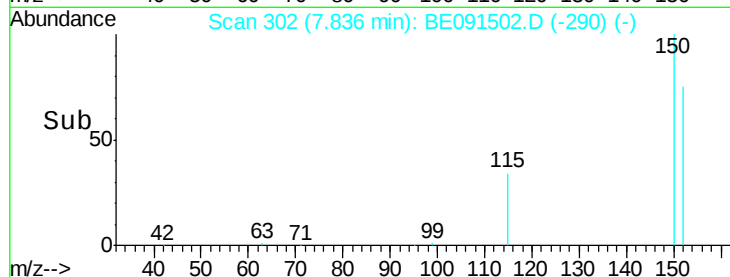
150 133.4 122.2 183.2

115 45.9 45.9 68.9#

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#2

1,4-Dioxane

Concen: 0.10 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

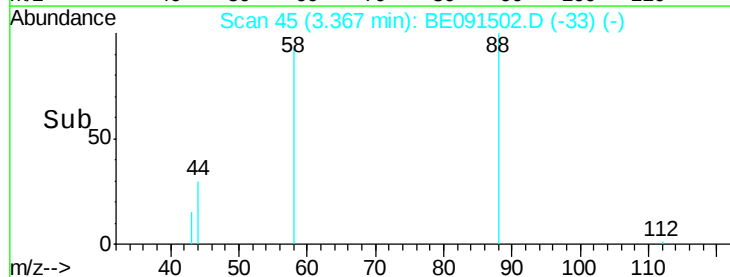
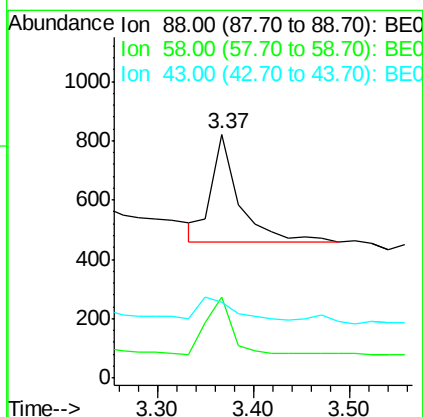
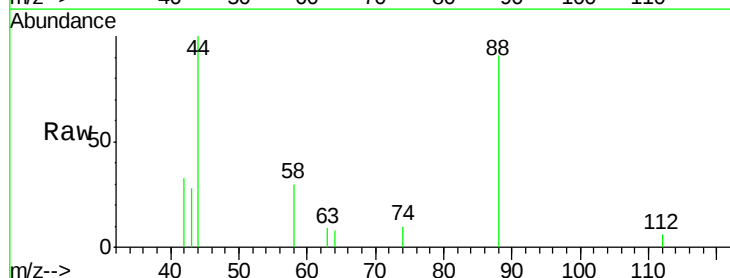
Tgt Ion: 88 Resp: 737

Ion Ratio Lower Upper

88 100

58 47.5 61.0 91.6#

43 23.3 25.4 38.2#





#3

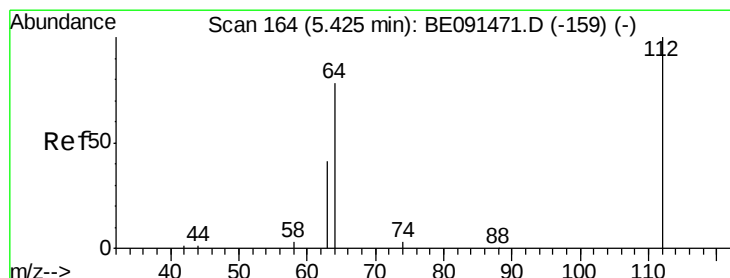
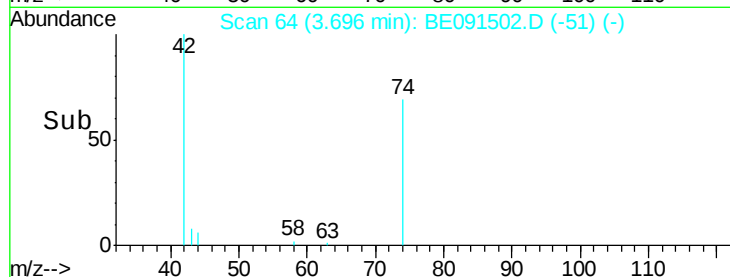
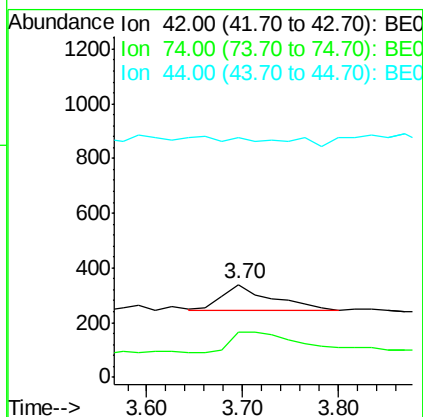
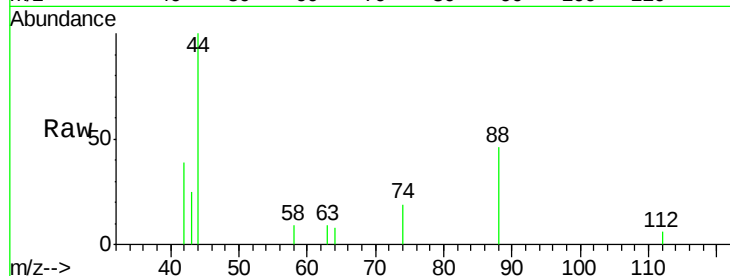
n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
42	100		
74	109.0	84.3	126.5
44	0.0	6.7	10.1#

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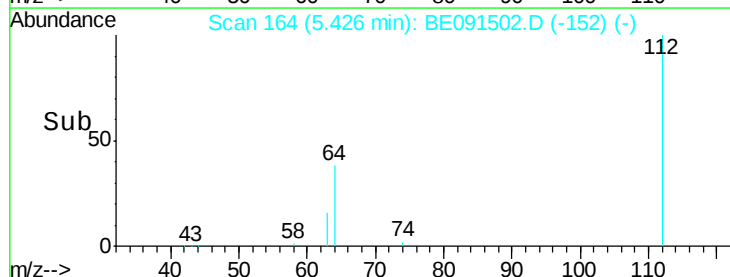
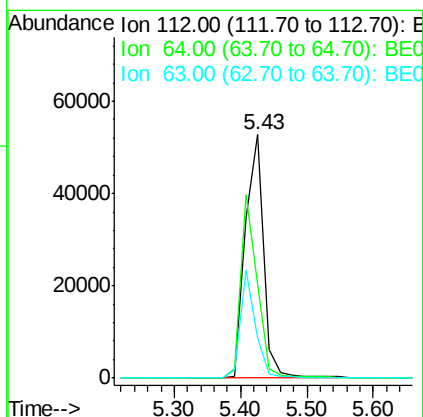
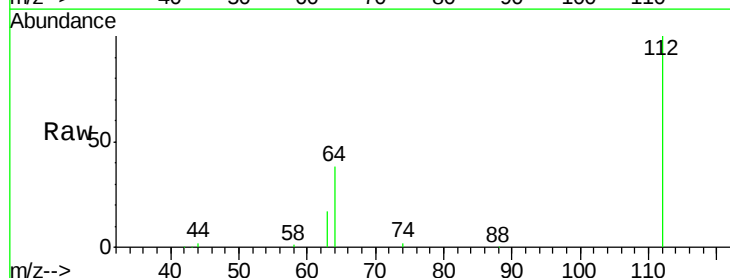
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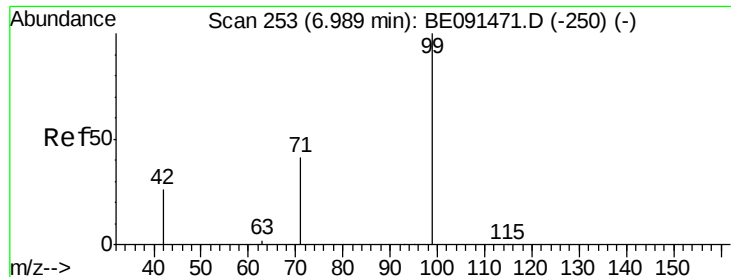


#4

2-Fluorophenol
Concen: 7.41 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	53.3	79.9
63	36.7	29.8	44.8





#5

Phenol-d6

Concen: 7.60 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

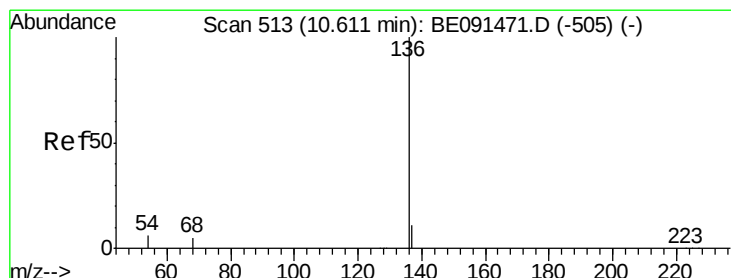
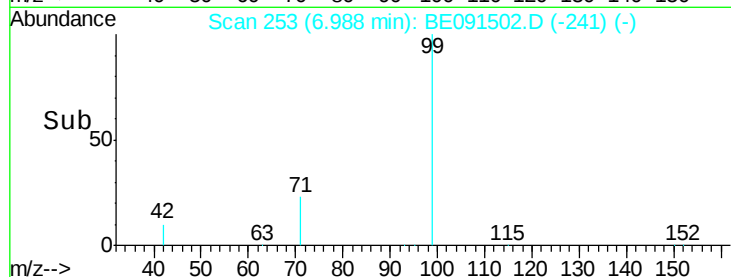
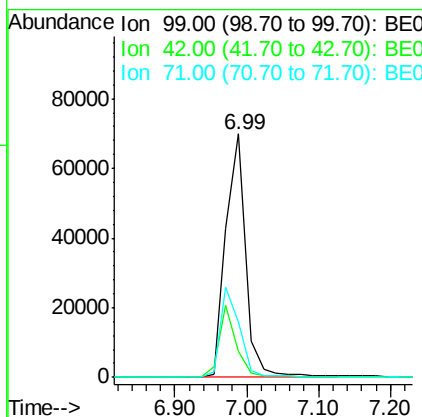
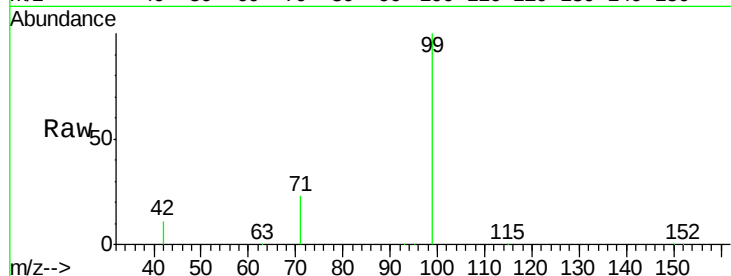
ClientSampleId :

MDL-07-W

Tgt Ion:	99	Resp:	134611
Ion Ratio	Lower	Upper	
99	100		
42	25.4	20.6	30.8
71	36.1	29.0	43.4

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#6

Naphthalene-d8

Concen: 5.00 ng

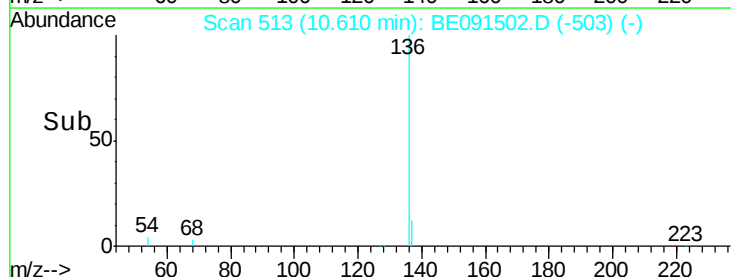
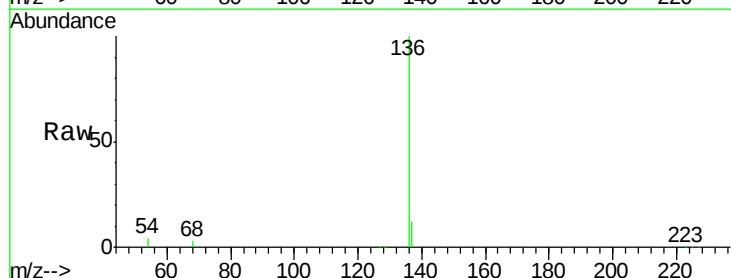
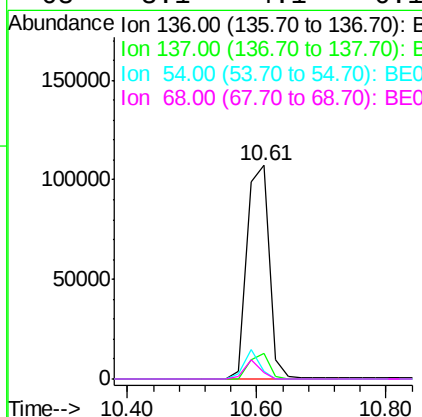
RT: 10.61 min Scan# 513

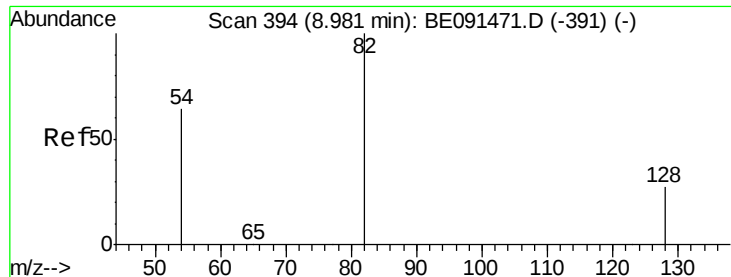
Delta R.T. -0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	136	Resp:	257831
Ion Ratio	Lower	Upper	
136	100		
137	12.2	8.8	13.2
54	3.7	5.2	7.8#
68	3.1	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.54 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

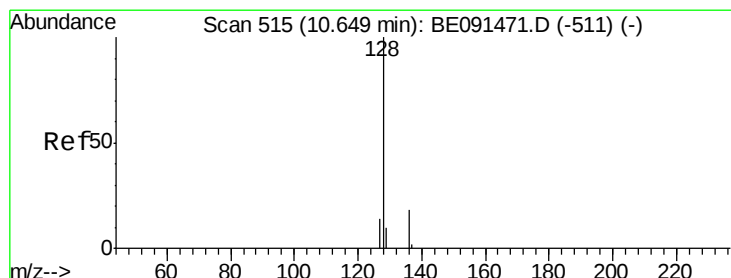
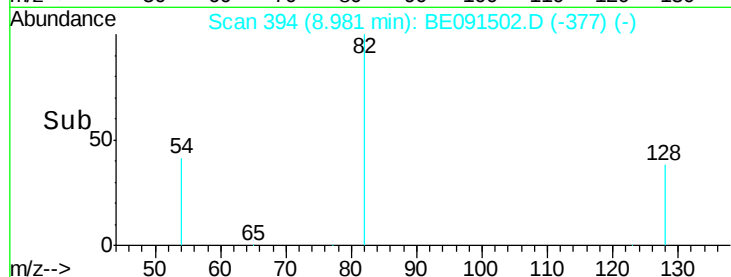
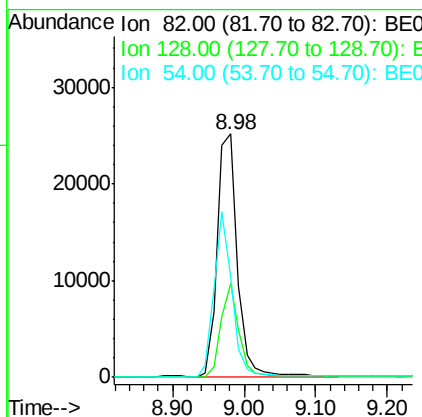
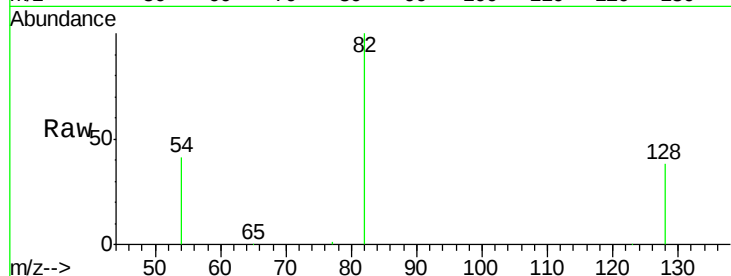
ClientSampleId :

MDL-07-W

Tgt Ion:	82	Resp:	48981
Ion Ratio	Lower	Upper	
82	100		
128	38.4	23.5	35.3#
54	41.3	52.4	78.6#

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#8

Naphthalene

Concen: 0.06 ng

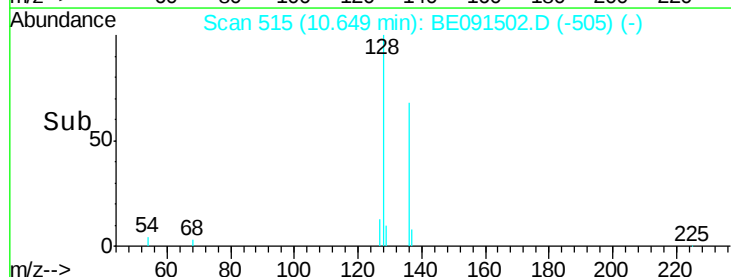
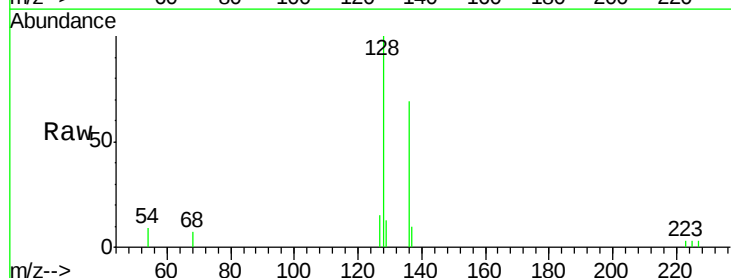
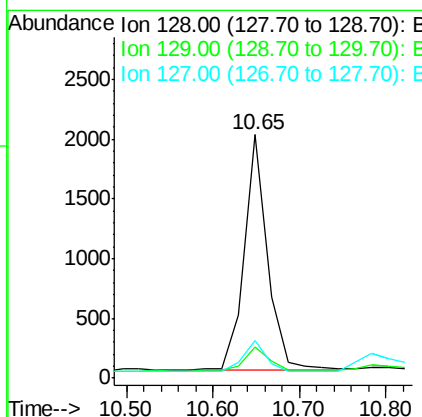
RT: 10.65 min Scan# 515

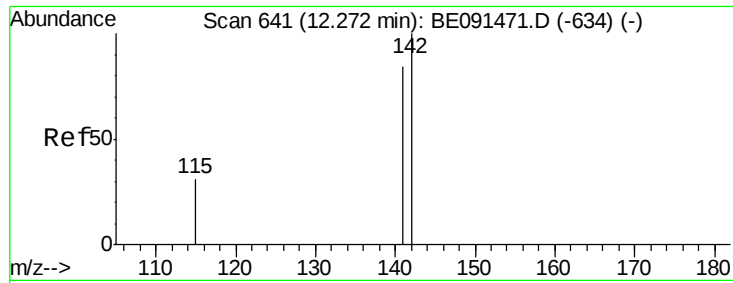
Delta R.T. -0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	128	Resp:	3638
Ion Ratio	Lower	Upper	
128	100		
129	12.7	8.2	12.2#
127	15.2	11.8	17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE091502.D

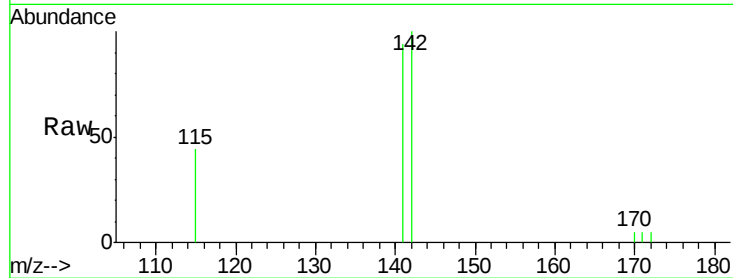
Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :

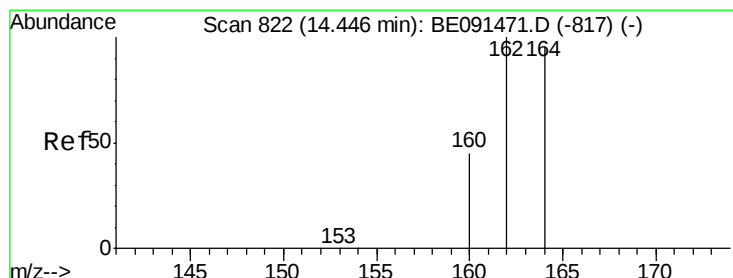
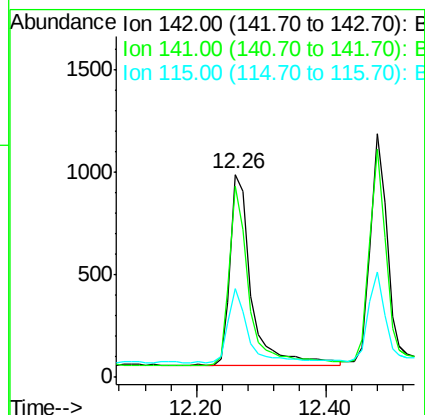
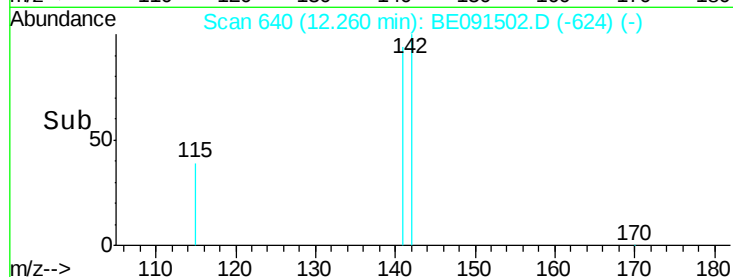
MDL-07-W



Tgt Ion:	142	Resp:	2141
Ion Ratio	Lower	Upper	
142	100		
141	94.4	66.9	100.3
115	43.5	25.1	37.7#

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#10

Acenaphthene-d10

Concen: 5.00 ng

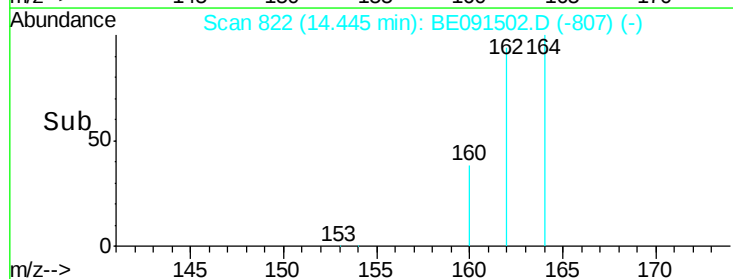
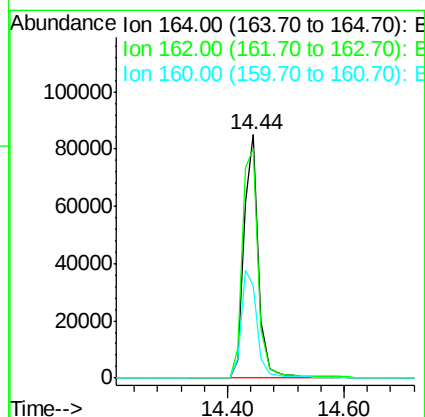
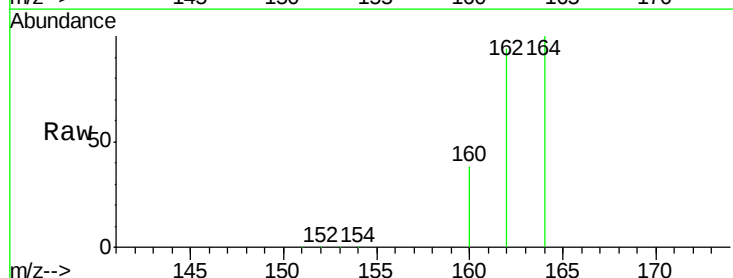
RT: 14.44 min Scan# 822

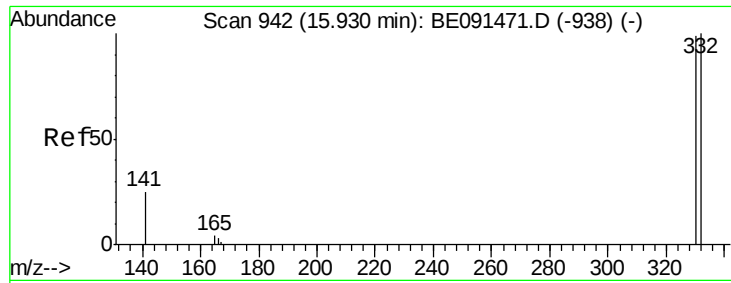
Delta R.T. -0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

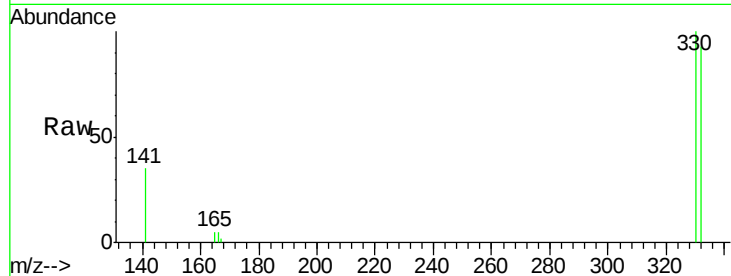
Tgt Ion:	164	Resp:	147720
Ion Ratio	Lower	Upper	
164	100		
162	94.2	84.4	126.6
160	37.9	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.29 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

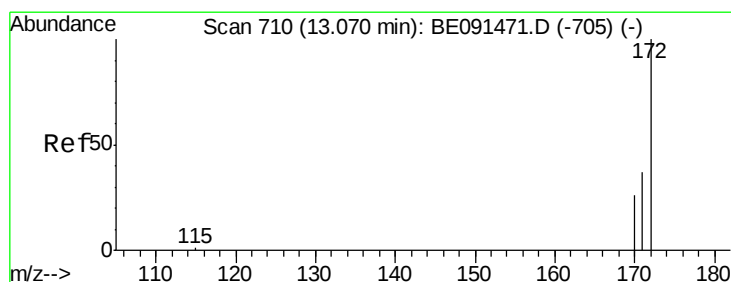
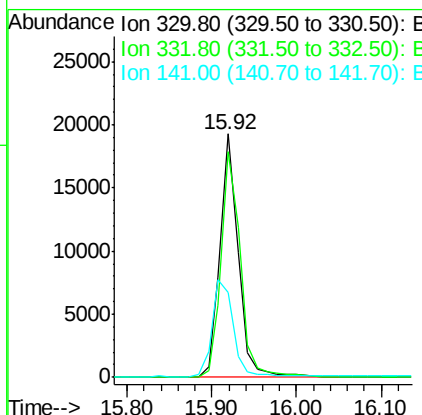
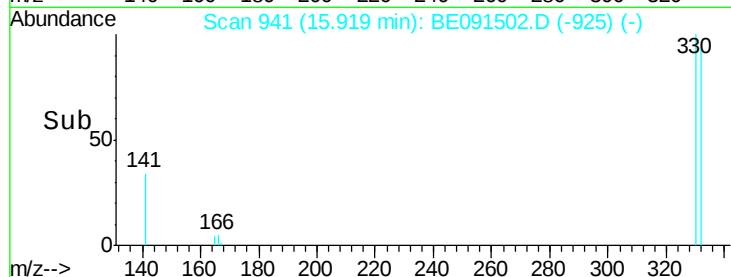
Instrument :
 BNA_E
 ClientSampled :
 MDL-07-W



Tgt Ion:330 Resp: 33974
 Ion Ratio Lower Upper
 330 100
 332 96.6 79.2 118.8
 141 45.1 28.1 42.1#

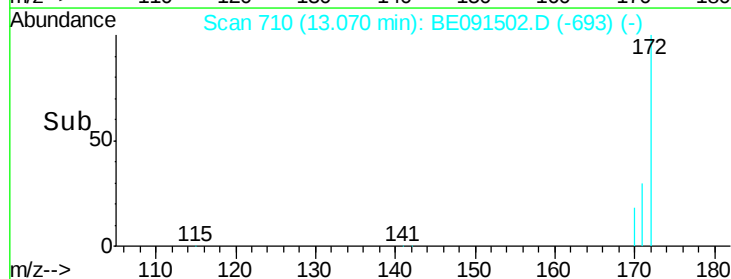
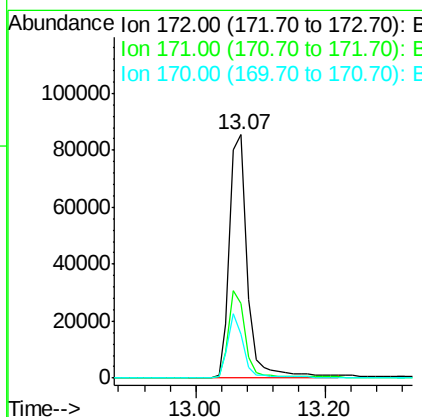
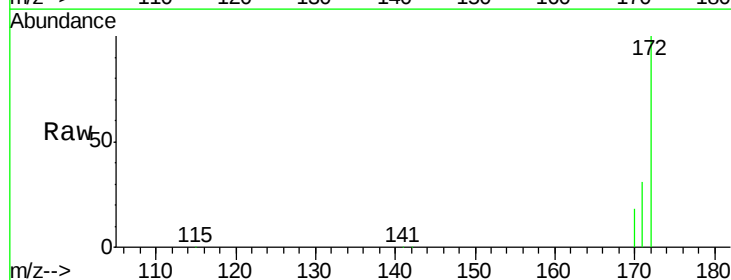
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#12
 2-Fluorobiphenyl
 Concen: 4.45 ng
 RT: 13.07 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Tgt Ion:172 Resp: 165512
 Ion Ratio Lower Upper
 172 100
 171 30.5 29.8 44.8
 170 18.2 21.4 32.2#





#13

Acenaphthylene

Concen: 0.17 ng m

RT: 14.15 min Scan# 800

Delta R.T. -0.01 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

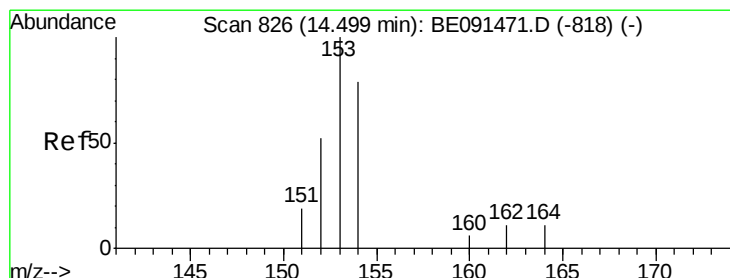
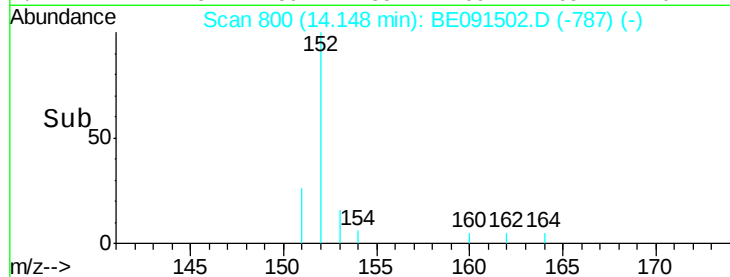
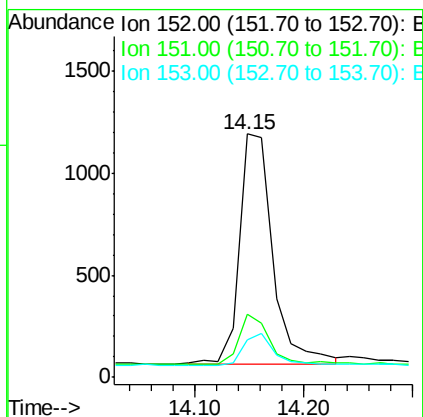
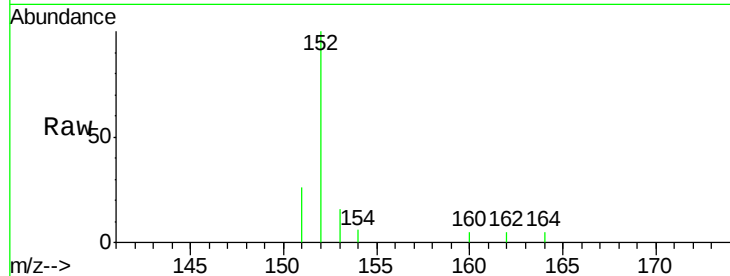
ClientSampleId :

MDL-07-W

Tgt Ion:	152	Resp:	2434
Ion Ratio	Lower	Upper	
152	100		
151	30.6	16.3	24.5#
153	22.6	11.1	16.7#

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#14

Acenaphthene

Concen: 0.05 ng

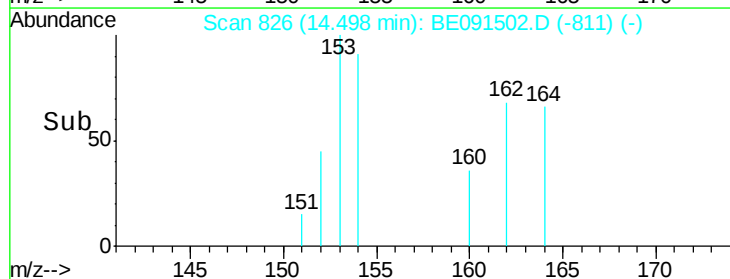
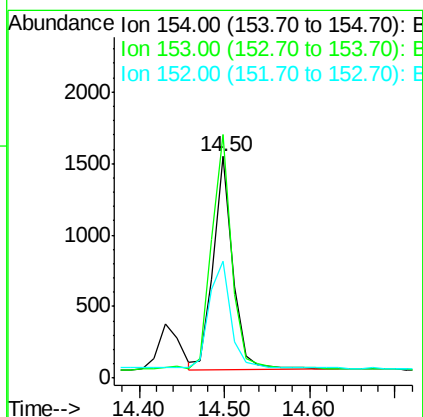
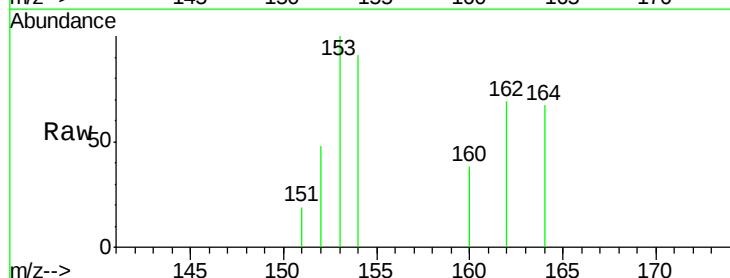
RT: 14.50 min Scan# 826

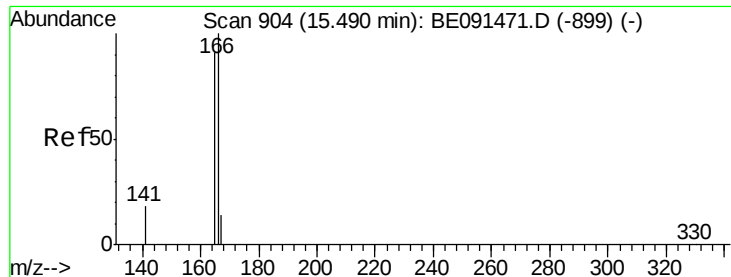
Delta R.T. -0.00 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	154	Resp:	2360
Ion Ratio	Lower	Upper	
154	100		
153	120.0	87.3	130.9
152	57.8	42.9	64.3





#15

Fluorene

Concen: 0.05 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :

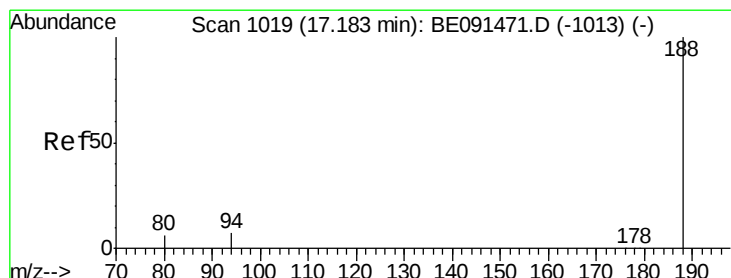
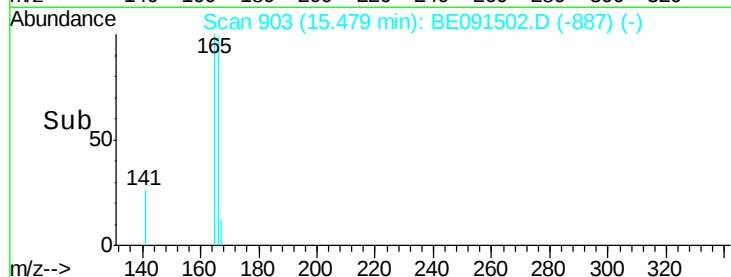
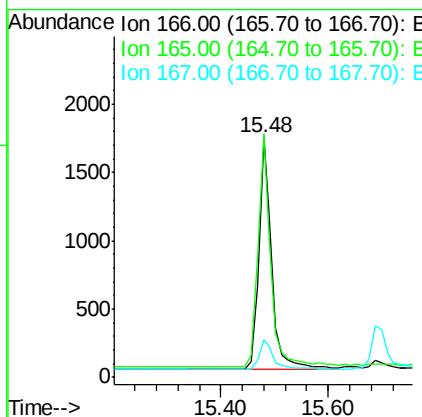
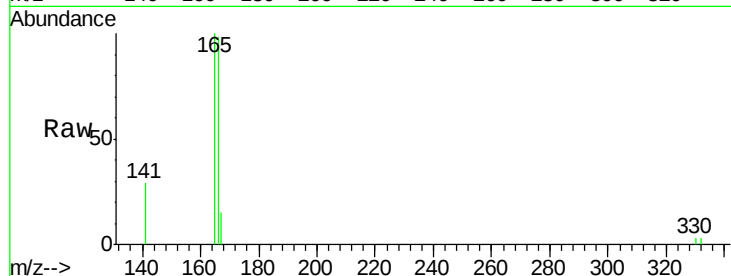
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Tgt Ion:	166	Resp:	2942
Ion Ratio	Lower	Upper	
166	100		
165	98.7	79.2	118.8
167	14.1	10.8	16.2



#16

Phenanthrene-d10

Concen: 5.00 ng

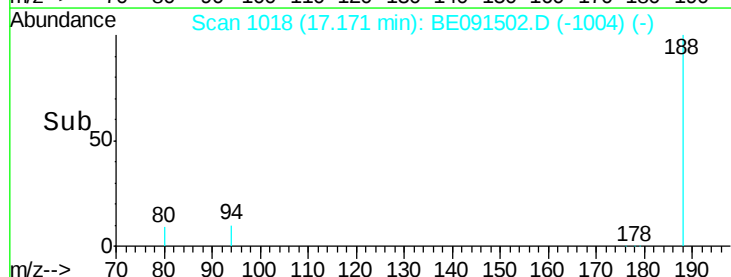
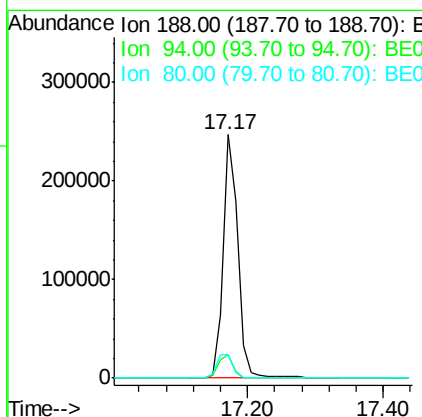
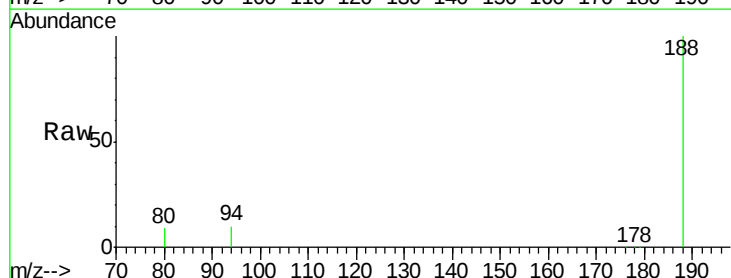
RT: 17.17 min Scan# 1018

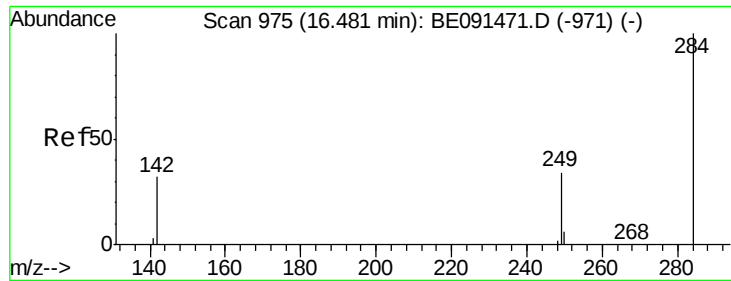
Delta R.T. -0.01 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	188	Resp:	378233
Ion Ratio	Lower	Upper	
188	100		
94	9.8	5.4	8.2#
80	9.5	5.0	7.4#





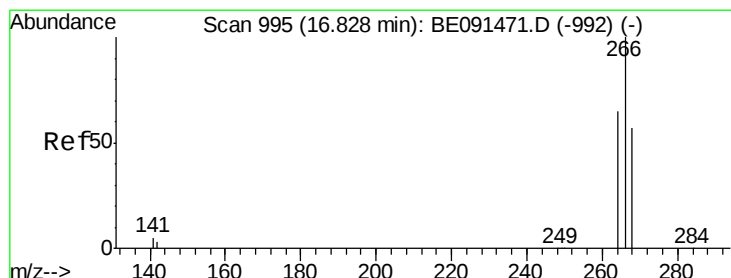
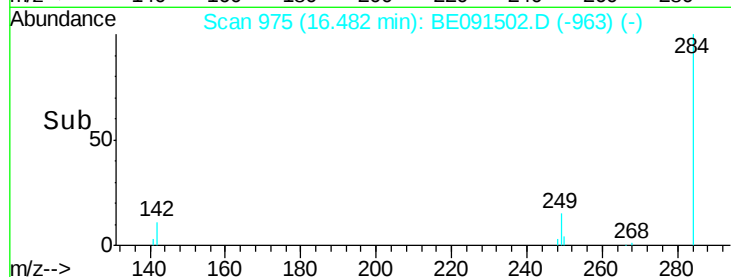
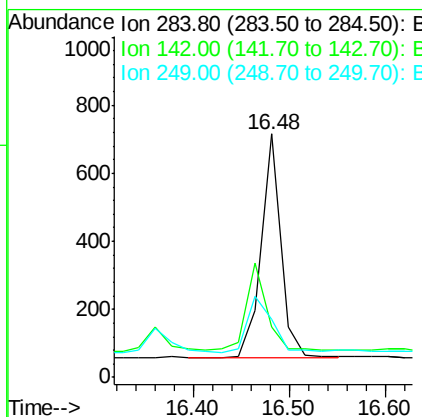
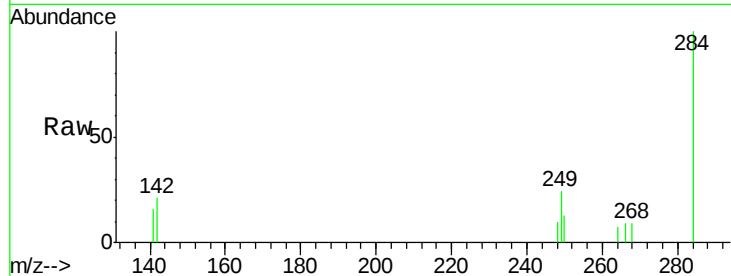
#17
Hexachlorobenzene
Concen: 0.06 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.3	31.0	46.4
249	31.2	25.8	38.8

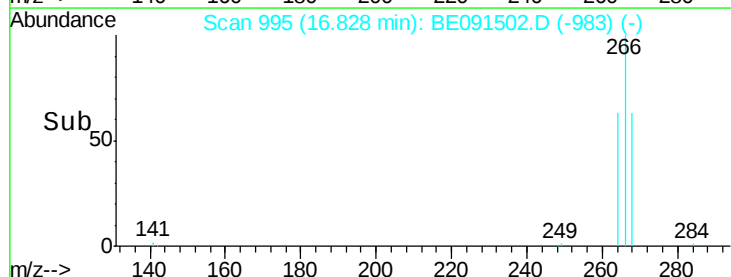
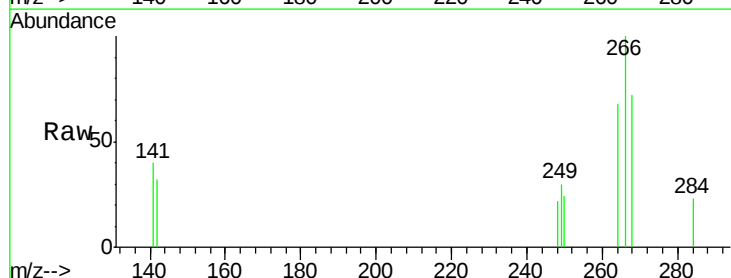
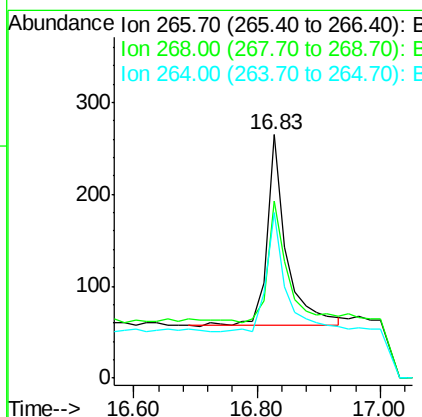
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#18
Pentachlorophenol
Concen: 0.25 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
266	100		
268	72.5	48.2	72.2#
264	67.9	52.1	78.1





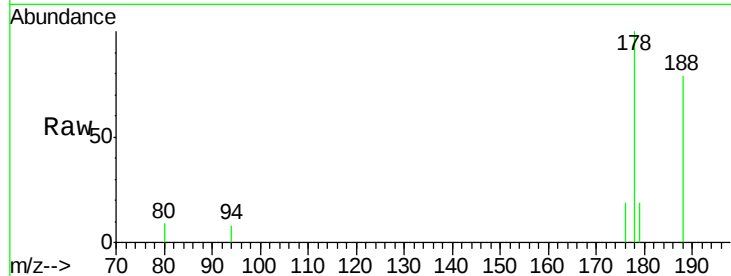
#19
Phenanthrene
Concen: 0.06 ng m
RT: 17.22 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

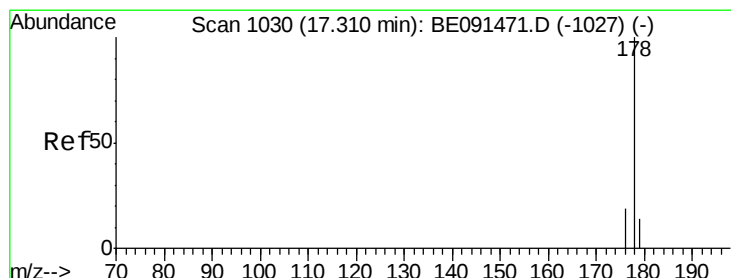
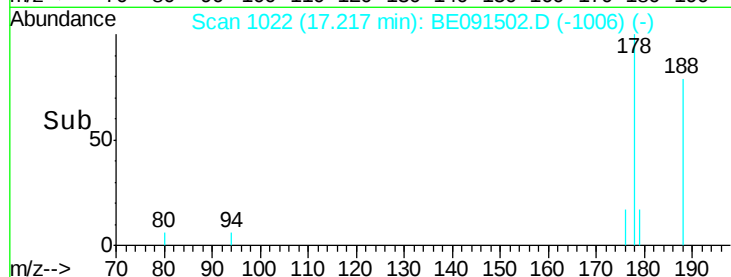
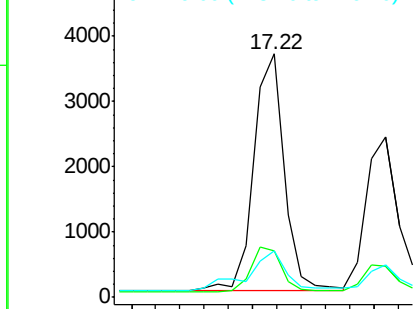
Tgt Ion	Ratio	Lower	Upper
178	100		
176	12.1	15.5	23.3#
179	9.6	13.1	19.7#

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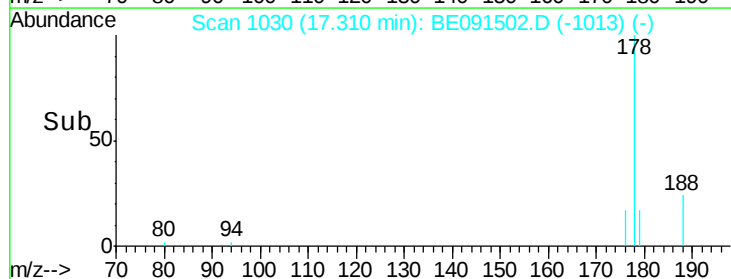
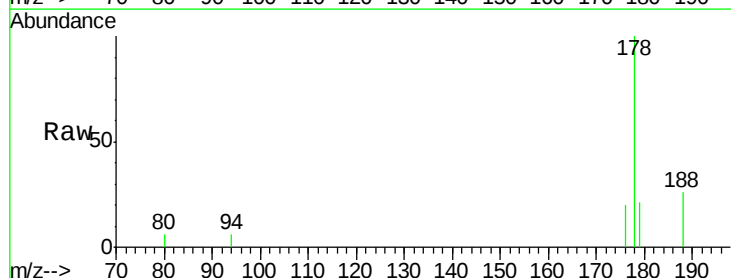
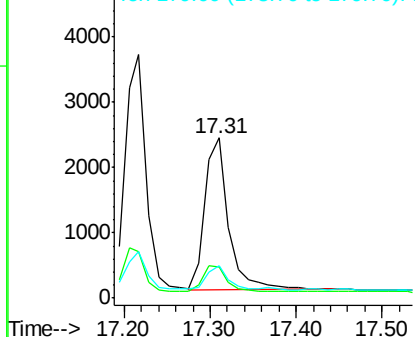
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#20
Anthracene
Concen: 0.05 ng
RT: 17.31 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	13.5	12.2	18.4

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





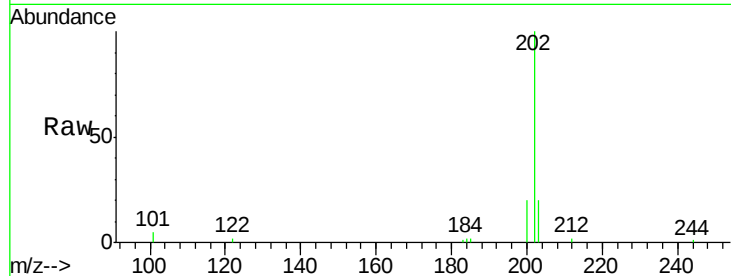
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W

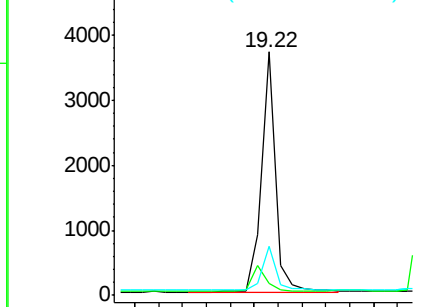
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	10.7	8.3	12.5	
203	19.1	13.9	20.9	

Manual Integrations
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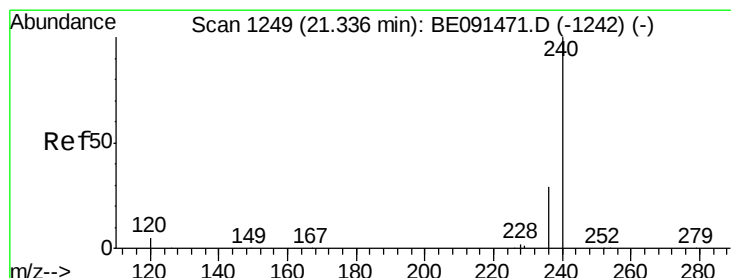
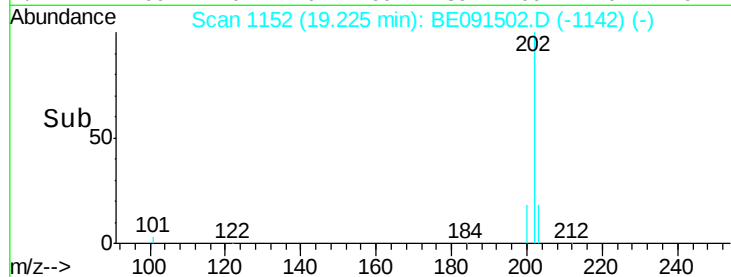
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Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



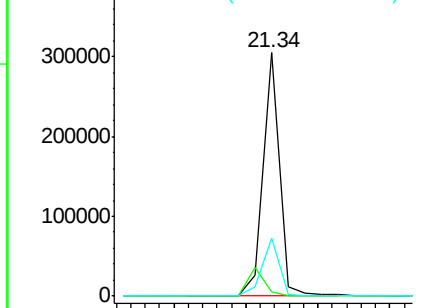
Time-->



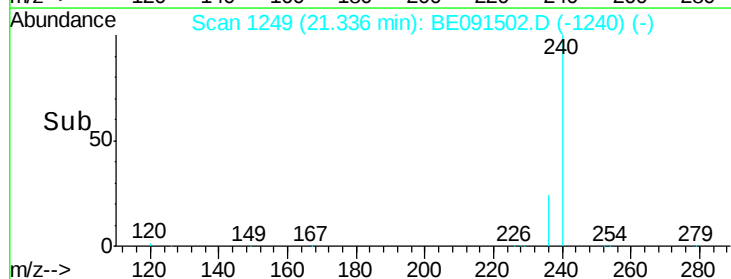
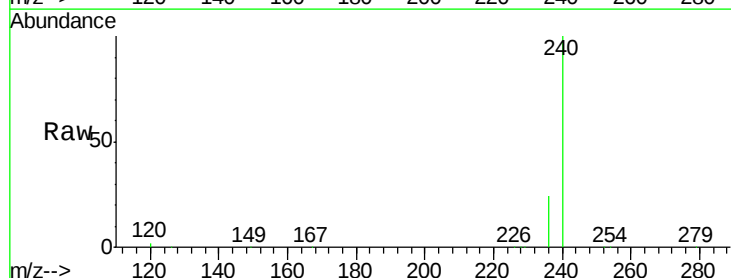
#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Tgt	Ion	Ratio	Lower	Upper
240	100			
120	1.6	4.0	6.0#	
236	23.9	23.0	34.4	

Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E



Time-->





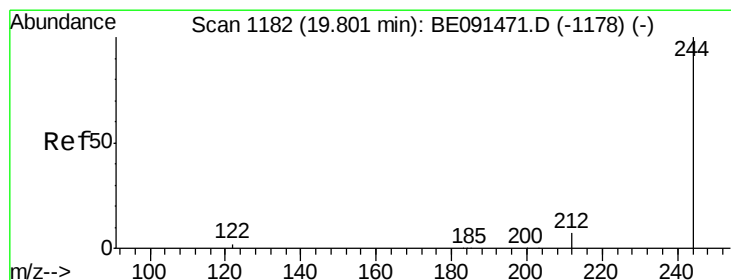
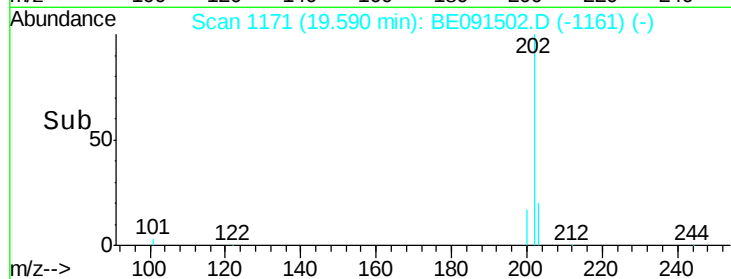
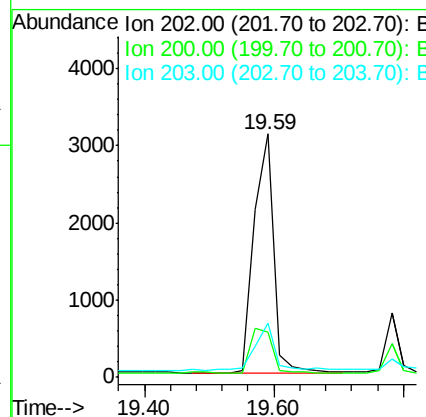
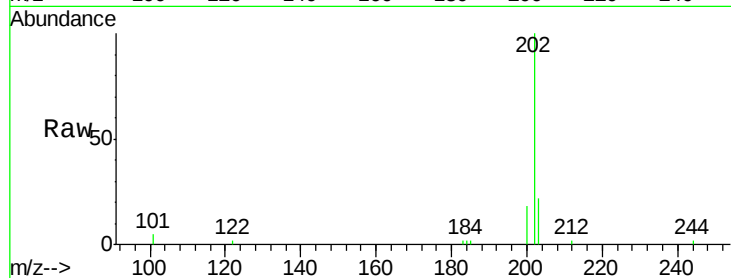
#23
 Pyrene
 Concen: 0.05 ng
 RT: 19.59 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.4	24.6
203	19.6	14.6	21.8

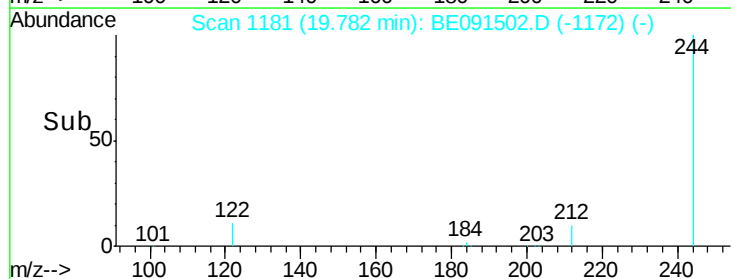
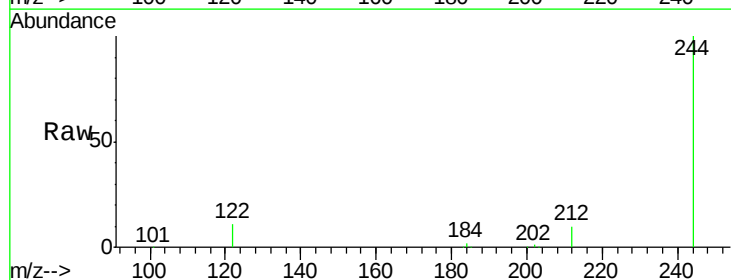
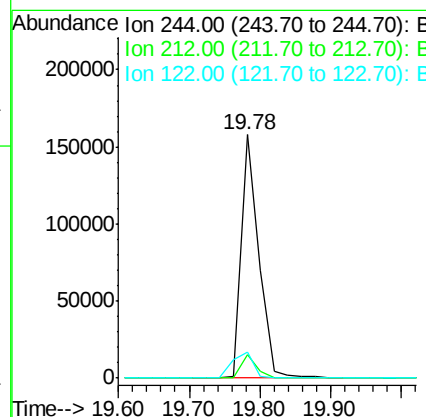
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#24
 Terphenyl-d14
 Concen: 4.70 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	5.8	8.8#
122	10.6	1.8	2.8#





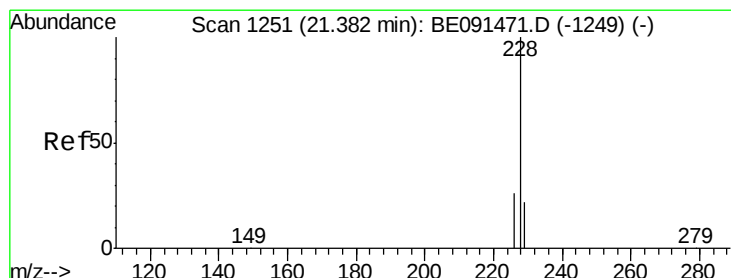
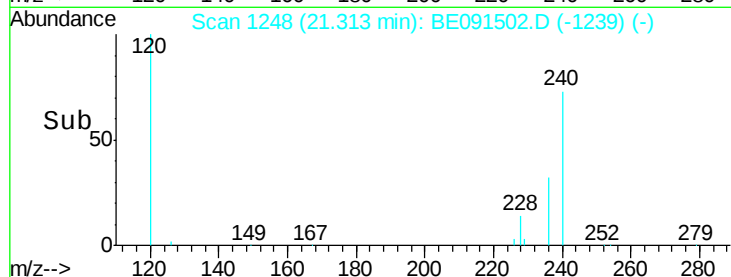
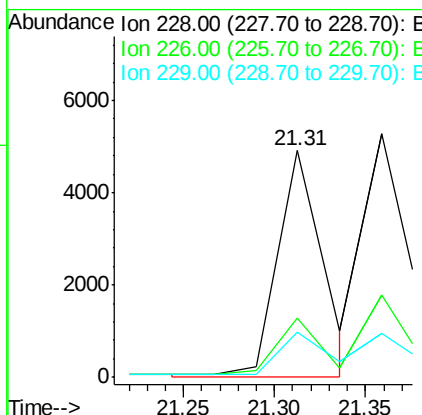
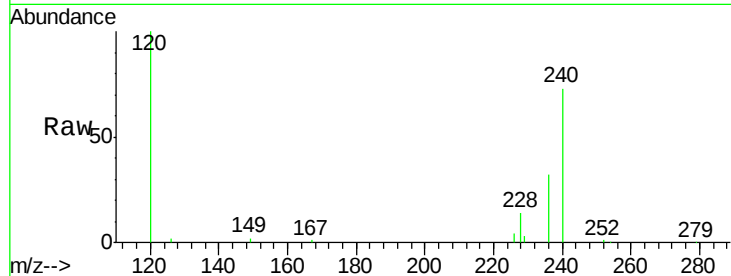
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.1	24.0	36.0
229	20.1	13.8	20.6

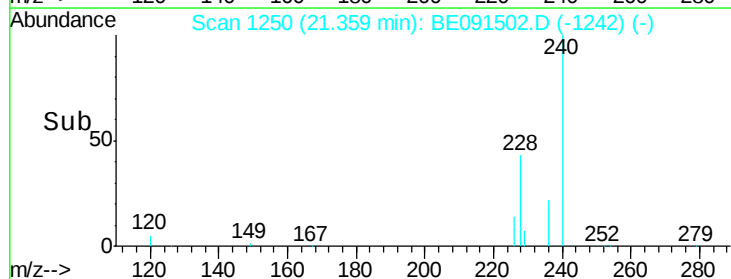
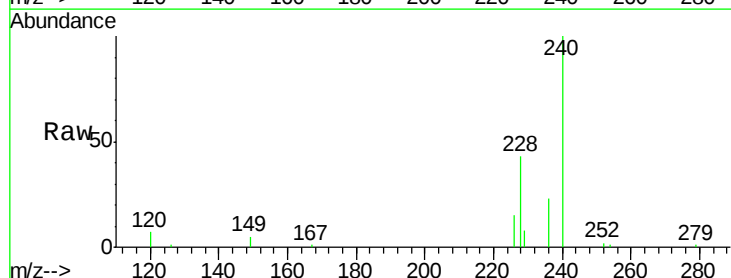
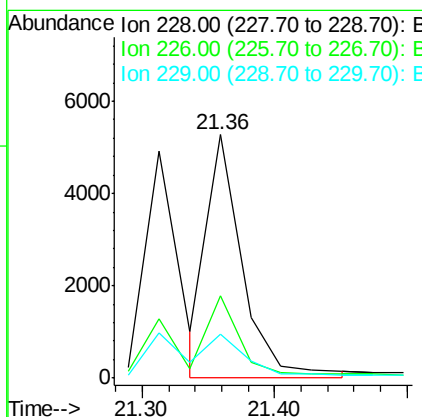
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#26
Chrysene
Concen: 0.07 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.8	18.9	28.3#
229	17.9	19.1	28.7#





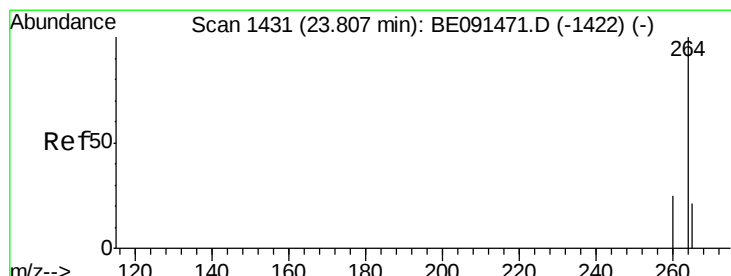
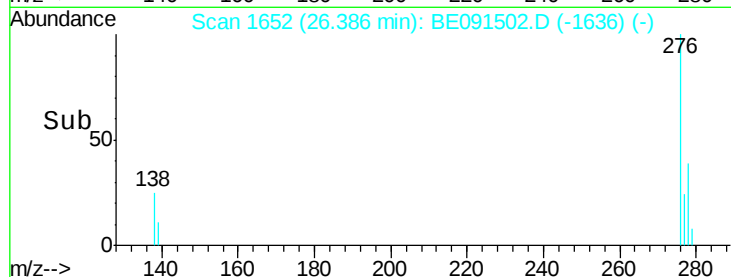
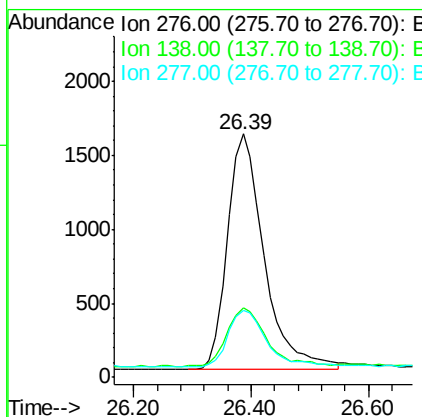
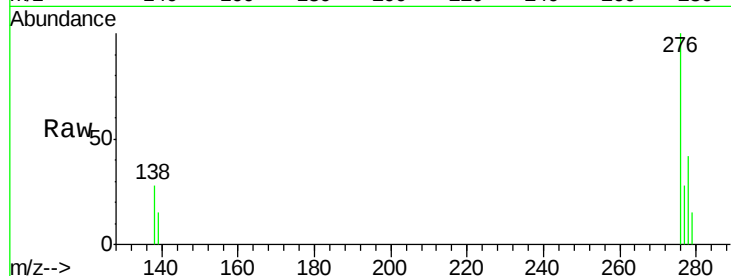
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.05 ng
RT: 26.39 min Scan# 1652
Delta R.T. -0.01 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	20.2	30.4
277	25.3	19.8	29.8

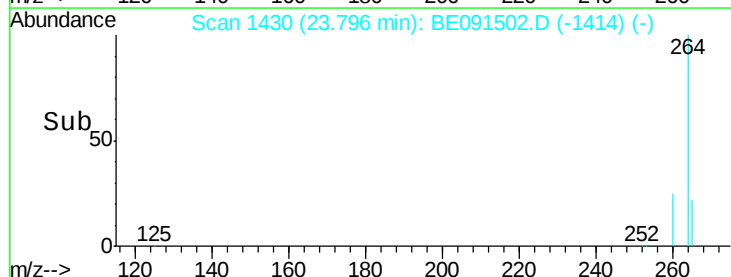
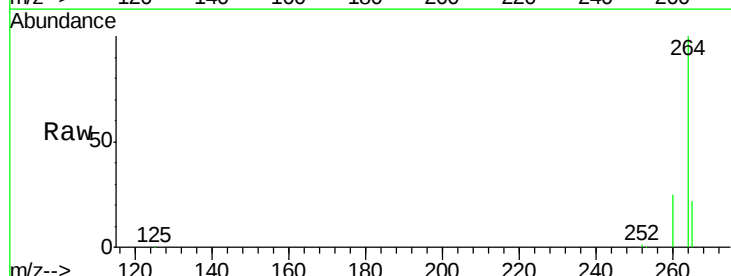
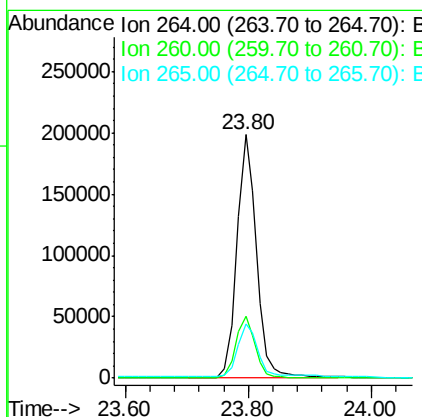
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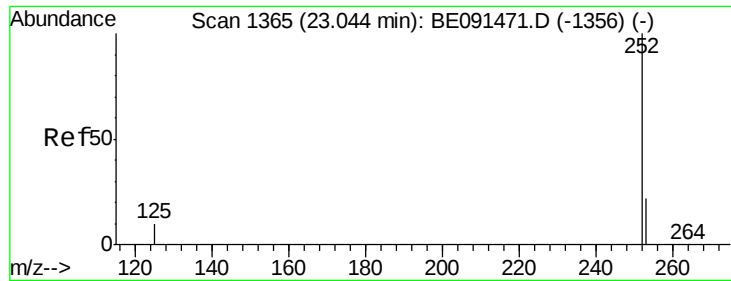
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.1	30.1
265	22.4	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.06 ng

RT: 23.03 min Scan# 1364

Delta R.T. -0.01 min

Lab File: BE091502.D

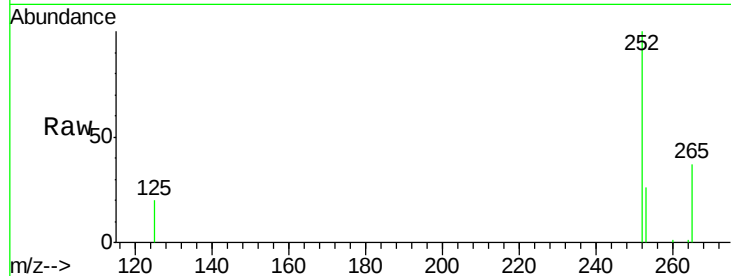
Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :

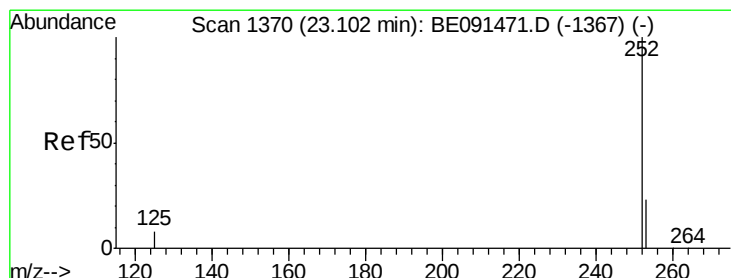
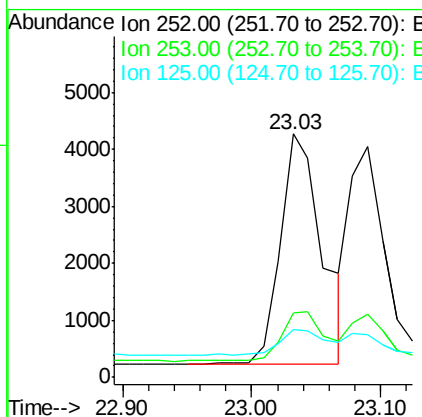
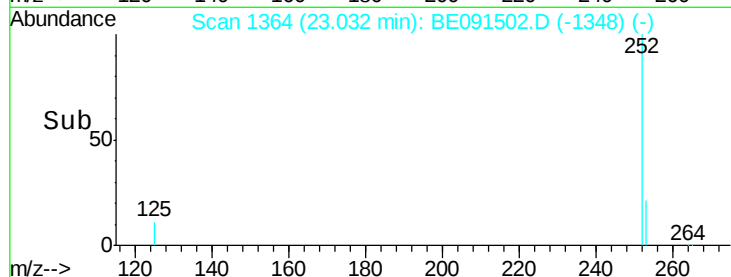
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Tgt Ion:	252	Resp:	9078
Ion Ratio	Lower	Upper	
252	100		
253	26.4	18.7	28.1
125	19.6	9.8	14.6#

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#30

Benzo(k)fluoranthene

Concen: 0.05 ng

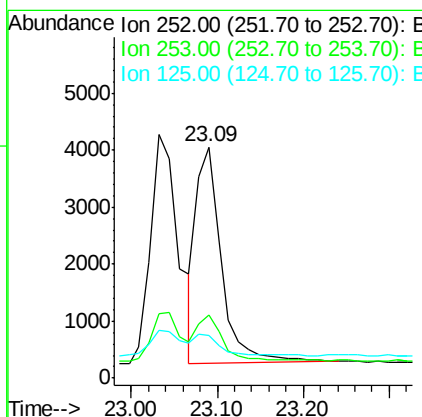
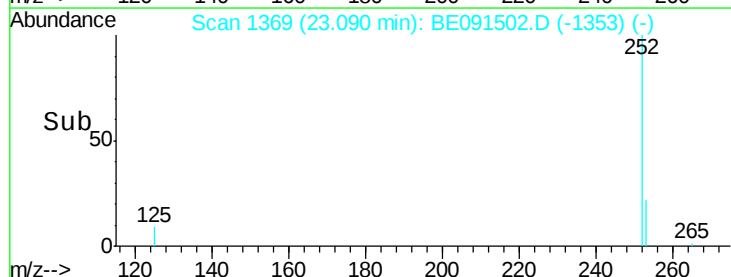
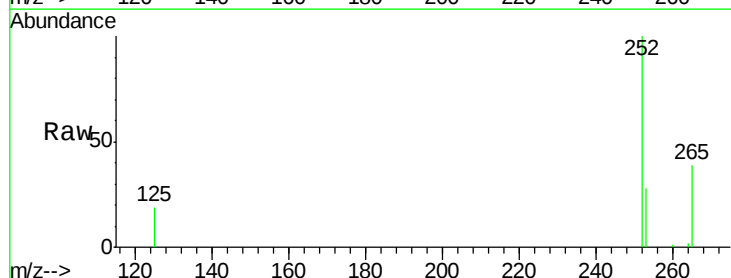
RT: 23.09 min Scan# 1369

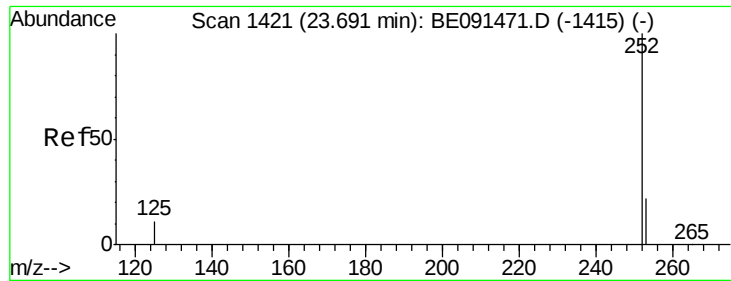
Delta R.T. -0.01 min

Lab File: BE091502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	252	Resp:	7653
Ion Ratio	Lower	Upper	
252	100		
253	27.5	20.2	30.4
125	18.5	9.4	14.2#





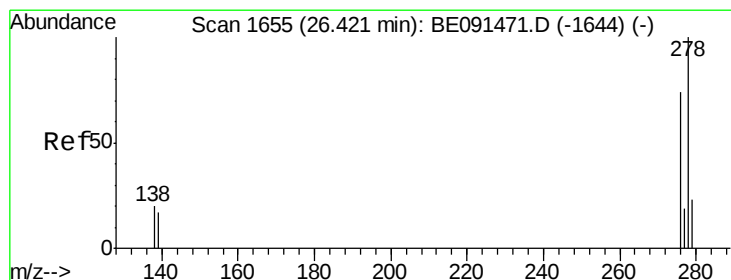
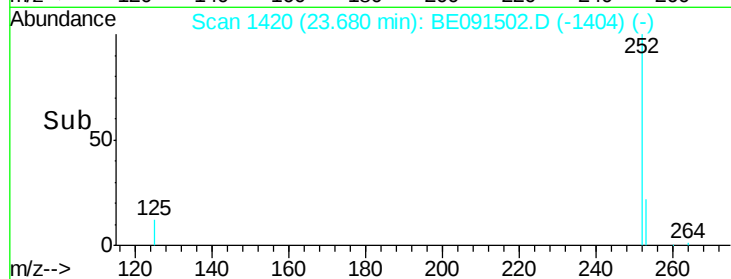
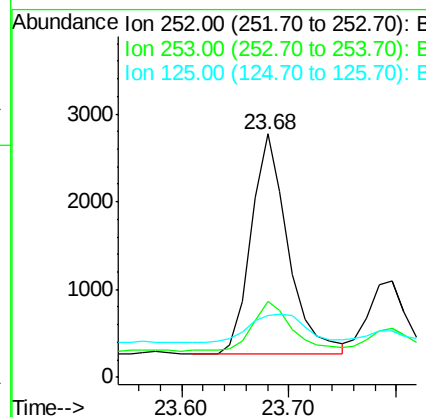
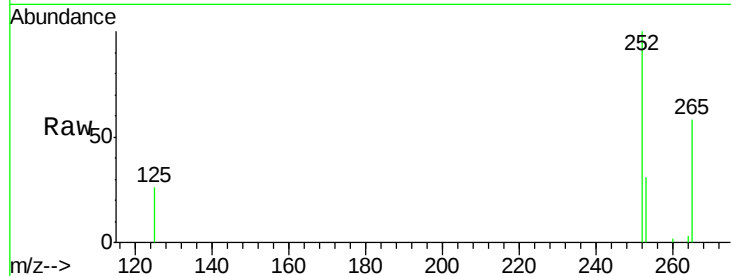
#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.9	19.4	29.0#
125	25.6	11.4	17.2#

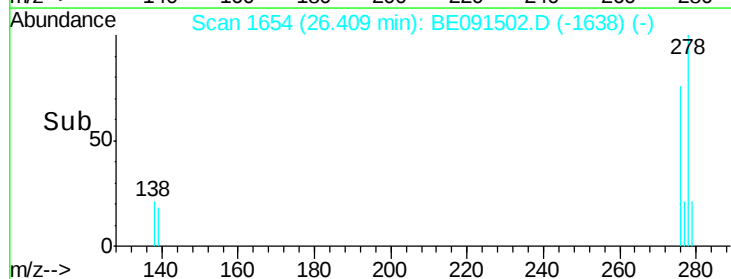
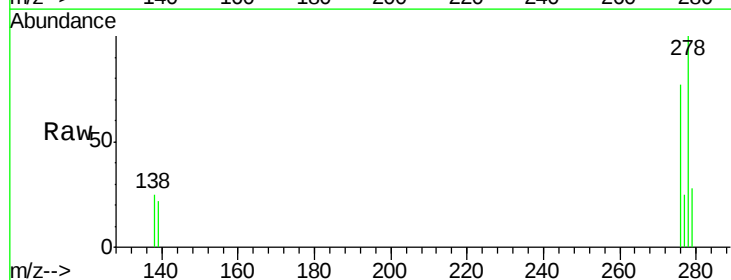
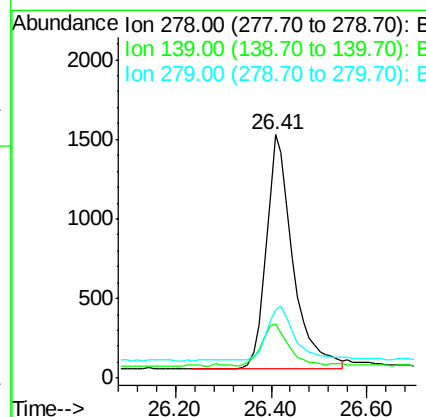
Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:32 AM



#32
Dibenzo(a,h)anthracene
Concen: 0.05 ng
RT: 26.41 min Scan# 1654
Delta R.T. -0.01 min
Lab File: BE091502.D
Acq: 21 Mar 2016 16:55

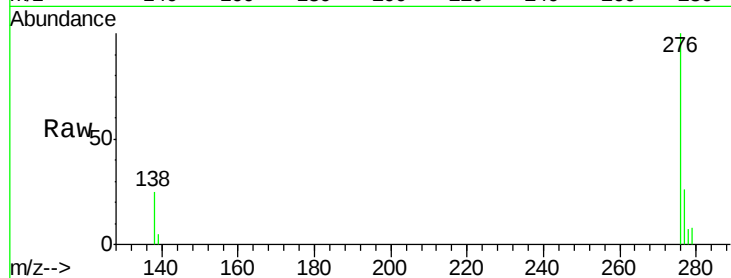
Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.2	14.2	21.4#
279	28.1	19.6	29.4





#33
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.17 min Scan# 1720
 Delta R.T. -0.01 min
 Lab File: BE091502.D
 Acq: 21 Mar 2016 16:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W



Tgt Ion:	276	Resp:	6242
Ion Ratio	Lower	Upper	
276	100		
277	26.4	19.4	29.2
138	24.6	18.2	27.4

Manual Integrations
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