

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE097502.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 :

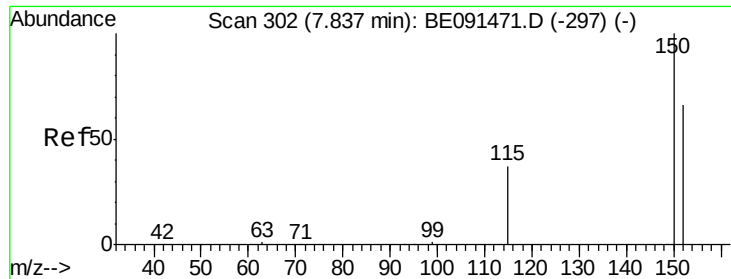
Manual Integrations
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Quant Time: Mar 21 17:42:26 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

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						
2) 1,4-Dioxane	3.37	88	737	0.10	ng	Qvalue # 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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

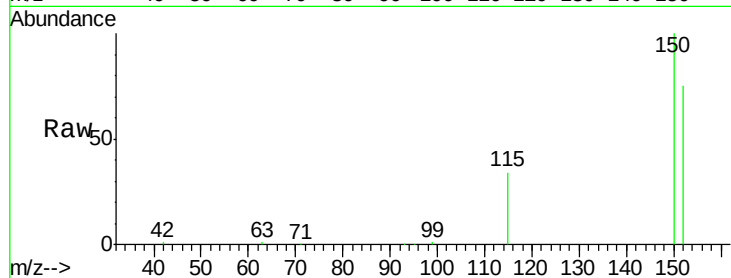
Lab File: BE097502.D

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Instrument :

BNA_E

ClientSampled :



Tgt Ion:152 Resp: 59065

Ion Ratio Lower Upper

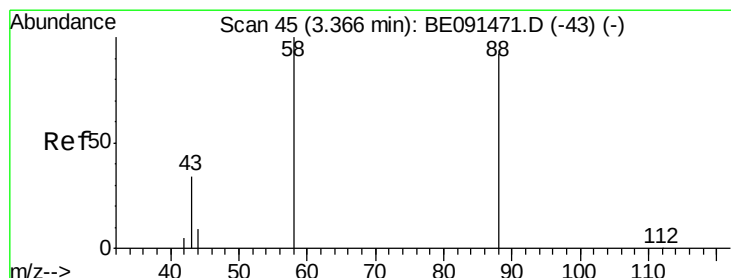
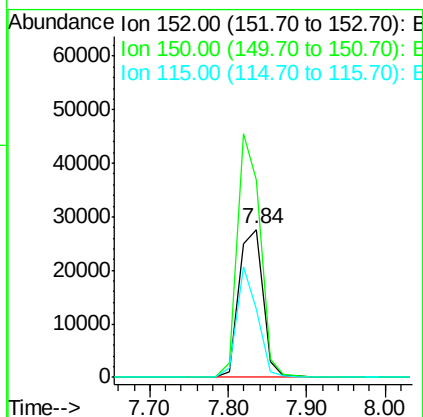
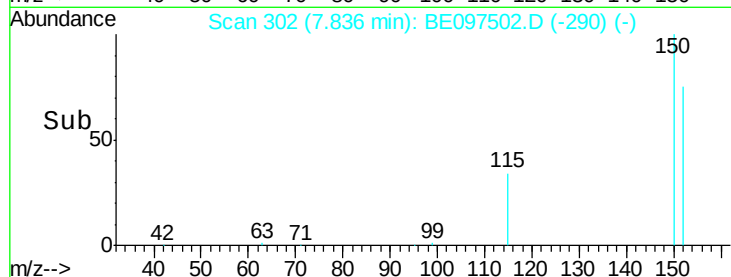
152 100

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: BE097502.D

Acq: 21 Mar 2016 16:55

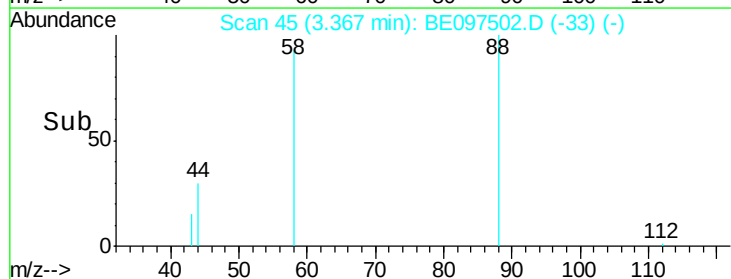
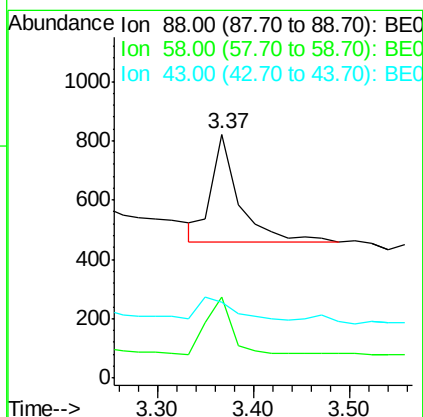
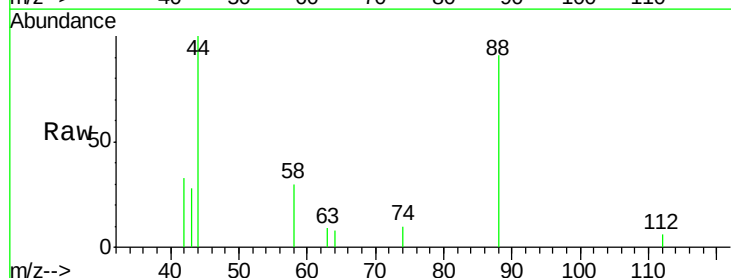
Tgt Ion: 88 Resp: 737

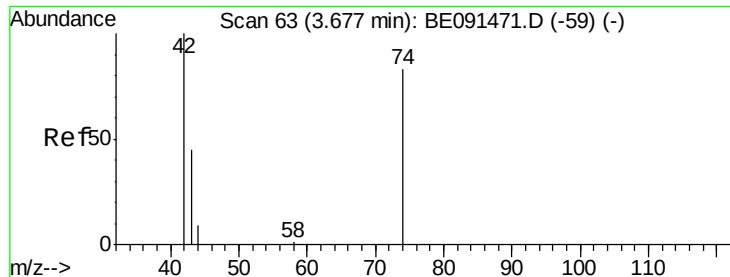
Ion Ratio Lower Upper

88 100

58 47.5 61.0 91.6#

43 23.3 25.4 38.2#

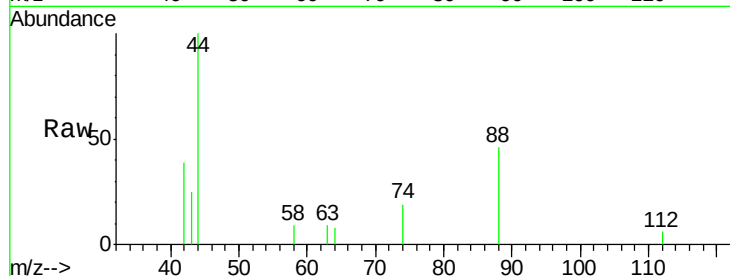




#3

n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

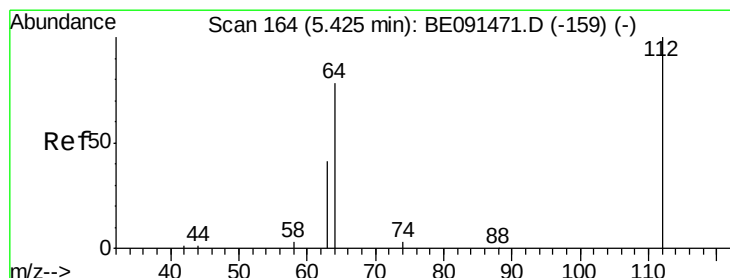
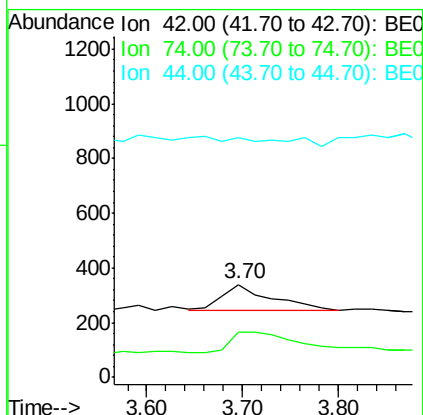
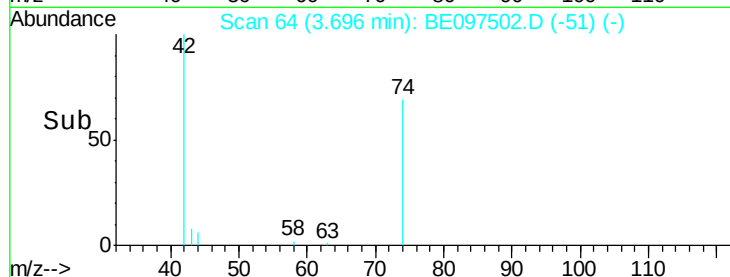
Instrument :
BNA_E
ClientSampled :



Tgt Ion: 42 Resp: 322
Ion Ratio Lower Upper
42 100
74 109.0 84.3 126.5
44 0.0 6.7 10.1#

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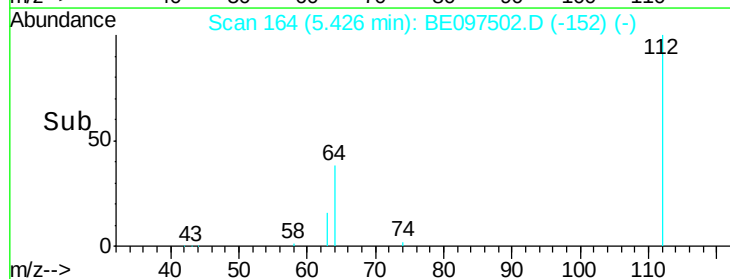
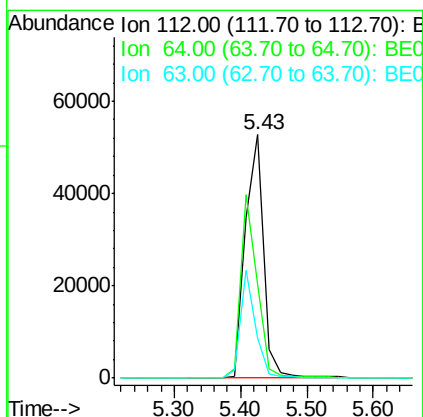
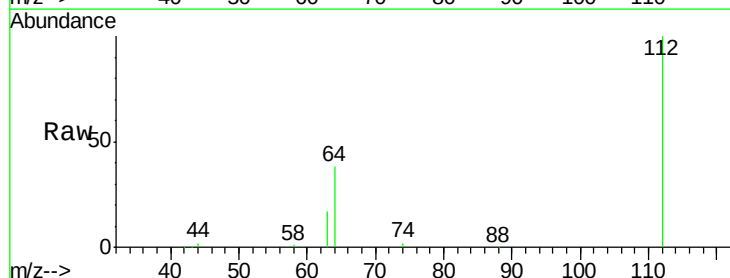
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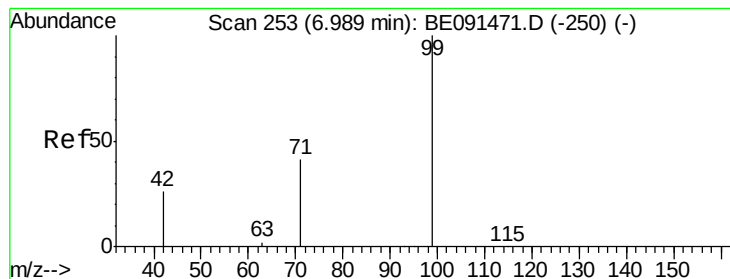


#4

2-Fluorophenol
Concen: 7.41 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Tgt Ion: 112 Resp: 100622
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

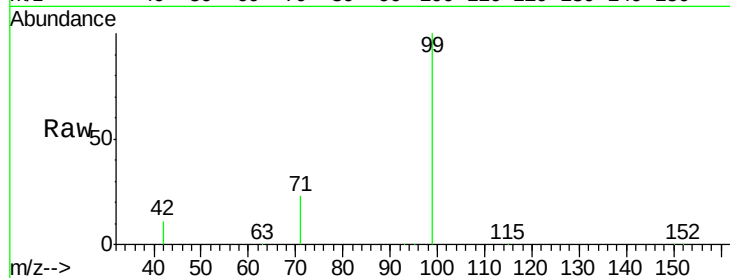
Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 99 Resp: 134611

Ion Ratio Lower Upper

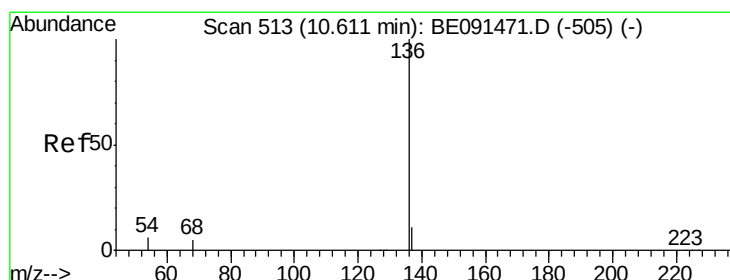
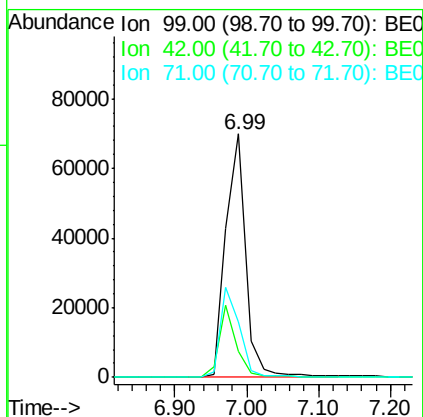
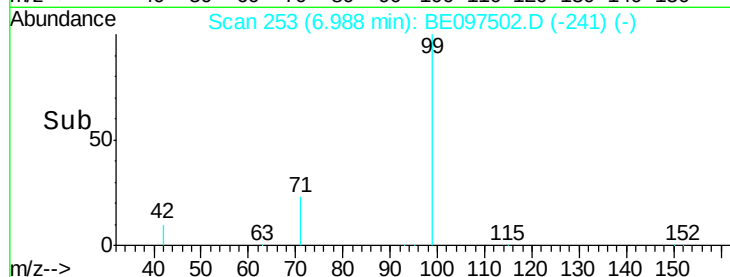
99 100

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: BE097502.D

Acq: 21 Mar 2016 16:55

Tgt Ion: 136 Resp: 257831

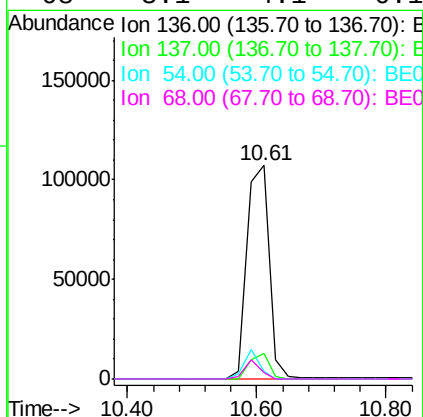
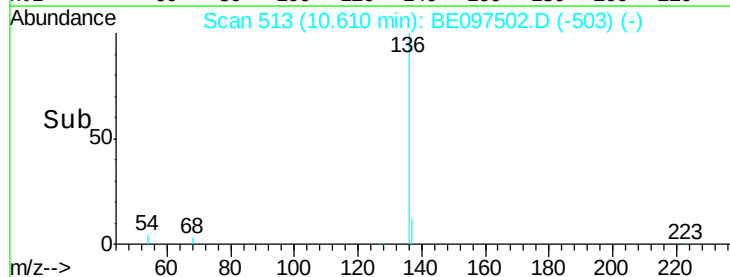
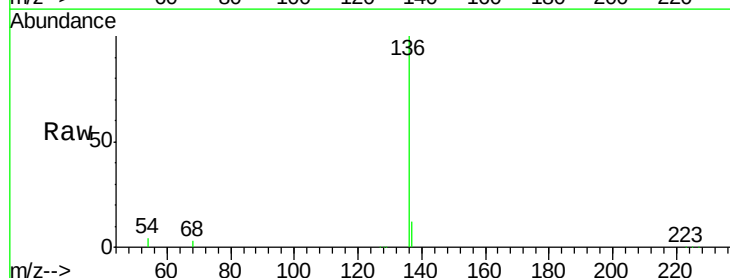
Ion Ratio Lower Upper

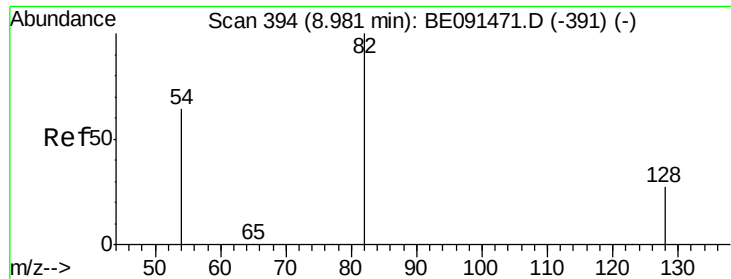
136 100

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

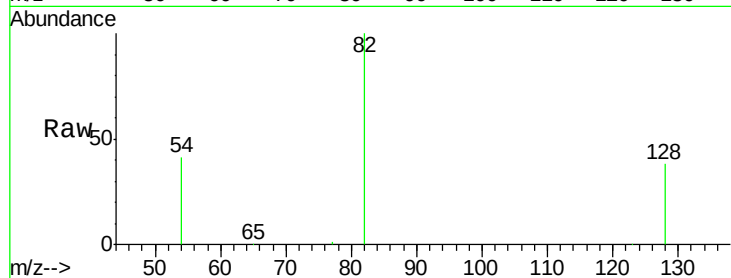
Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 82 Resp: 48981

Ion Ratio Lower Upper

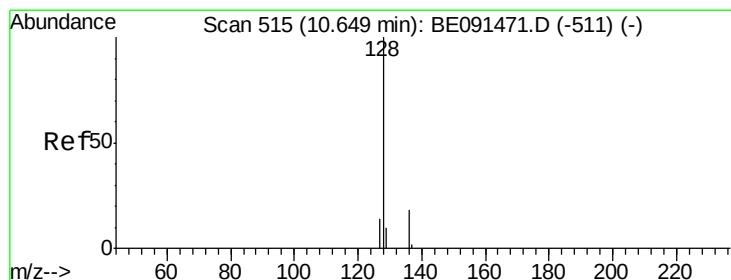
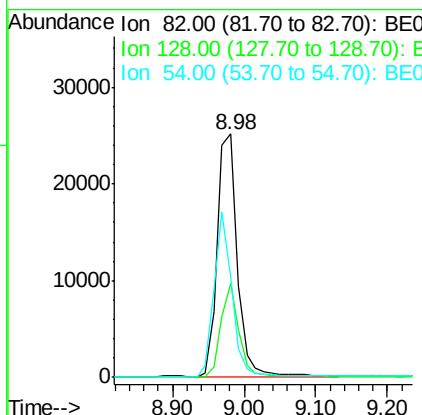
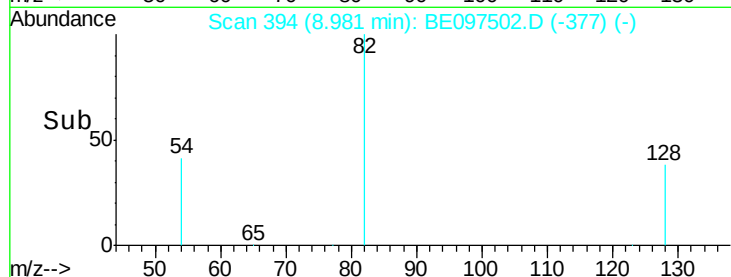
82 100

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: BE097502.D

Acq: 21 Mar 2016 16:55

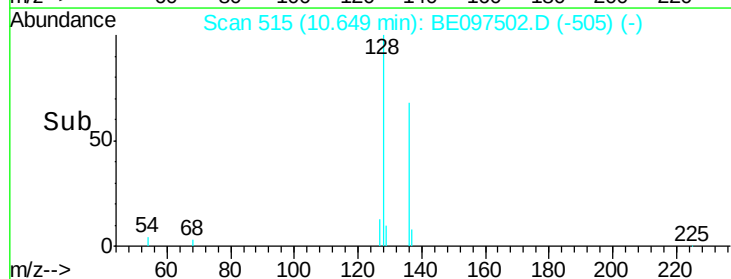
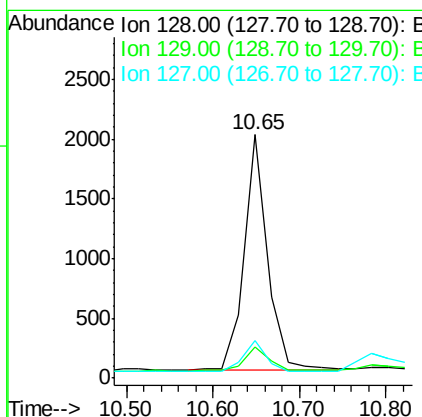
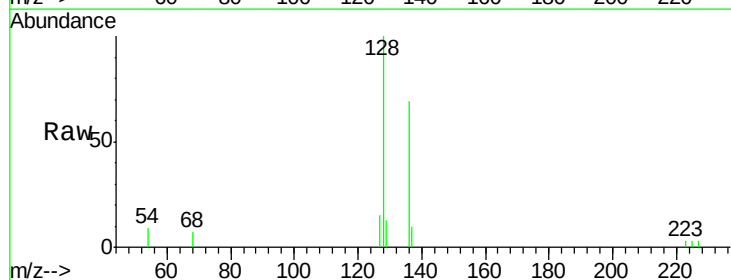
Tgt Ion: 128 Resp: 3638

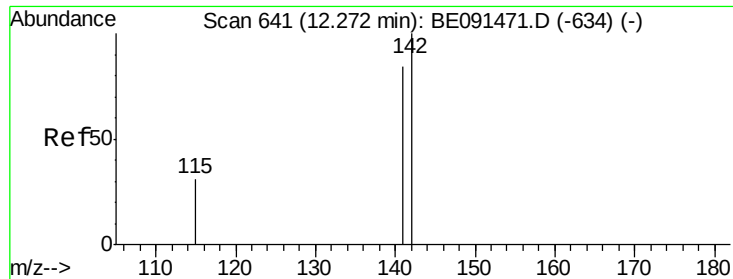
Ion Ratio Lower Upper

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

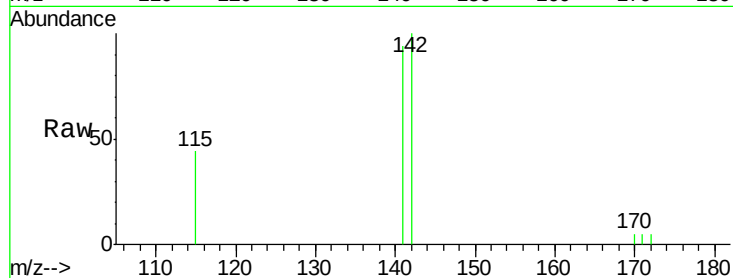
Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

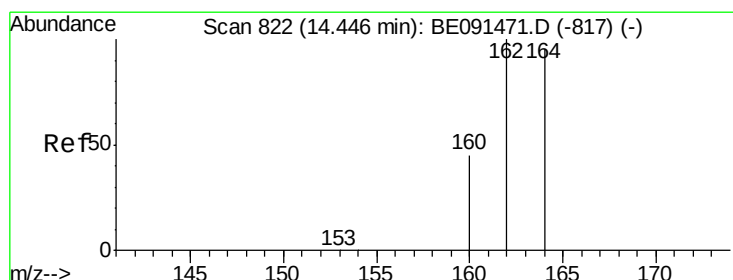
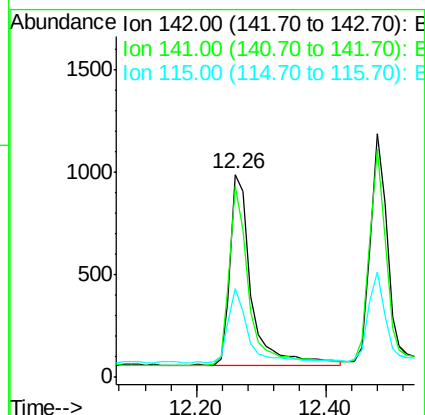
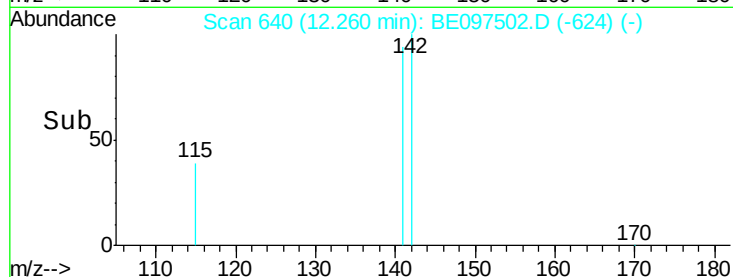
ClientSampleId :



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

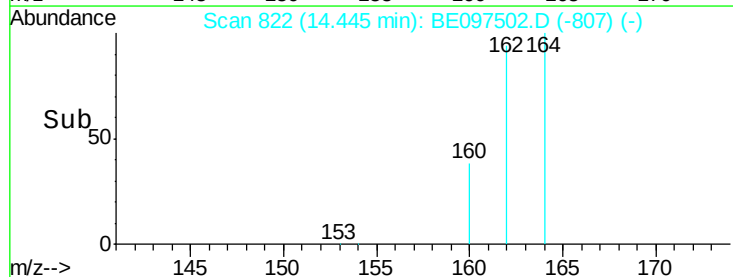
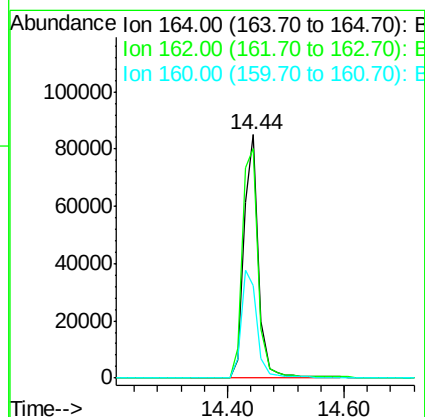
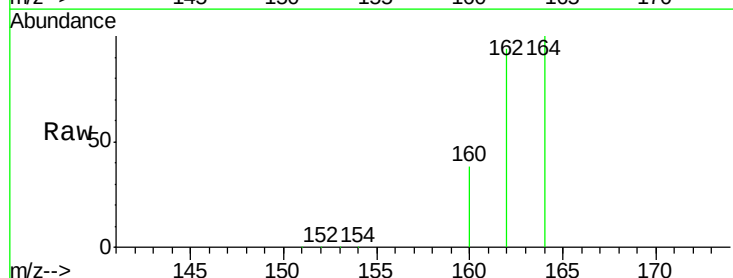
RT: 14.44 min Scan# 822

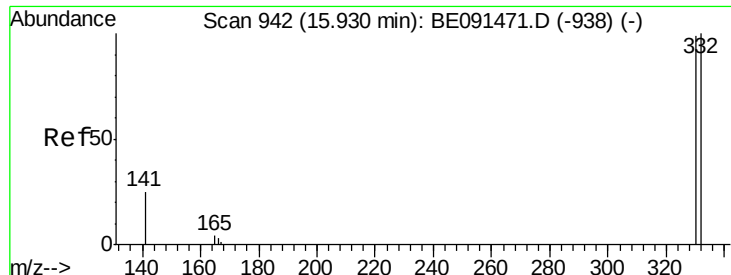
Delta R.T. -0.00 min

Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

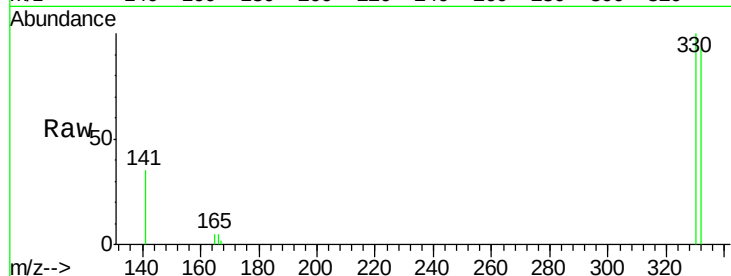
Tgt Ion:	164	Resp:	147720
Ion Ratio	Lower	Upper	
164	100		
162	94.2	84.4	126.6
160	37.9	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.29 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097502.D
 Acq: 21 Mar 2016 16:55

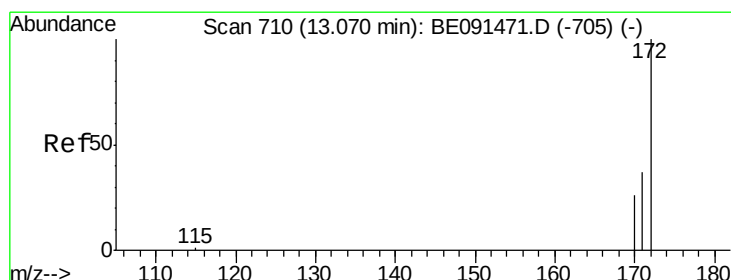
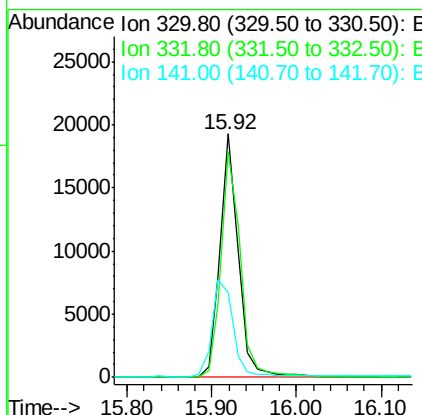
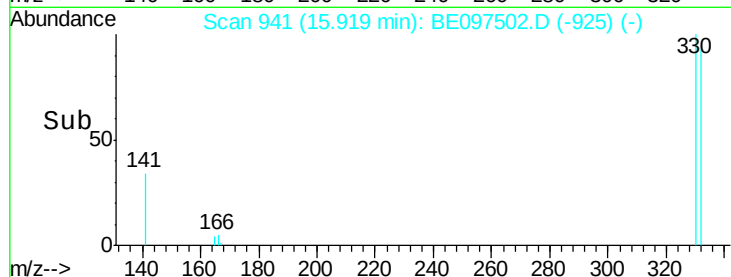
Instrument :
 BNA_E
 ClientSampled :



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#

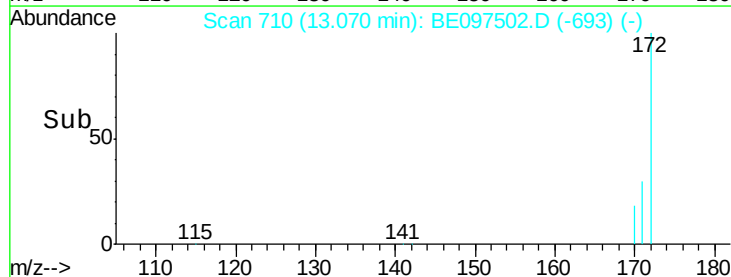
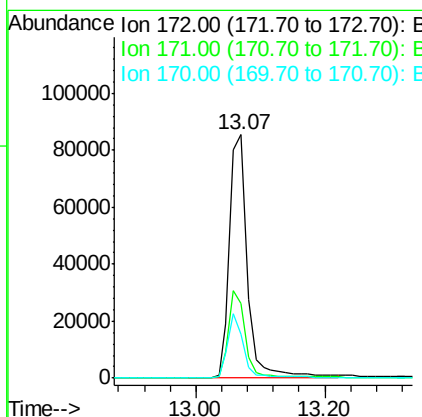
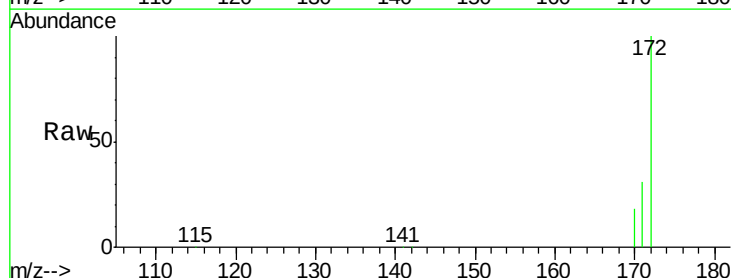
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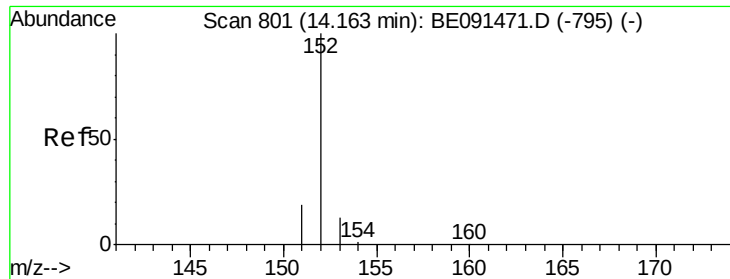
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#12
 2-Fluorobiphenyl
 Concen: 4.45 ng
 RT: 13.07 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: BE097502.D
 Acq: 21 Mar 2016 16:55

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#





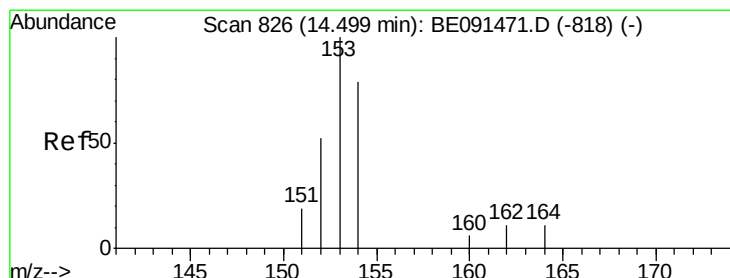
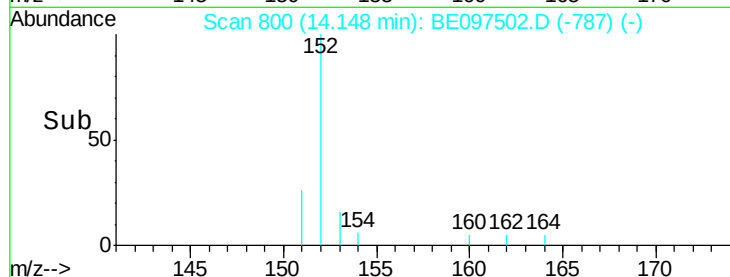
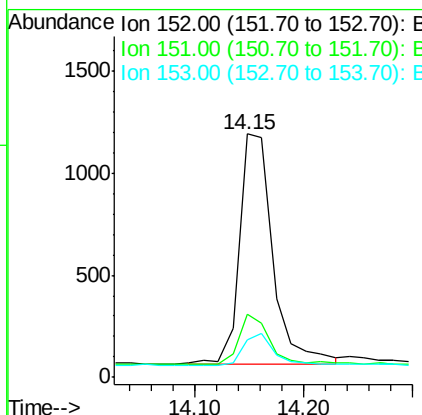
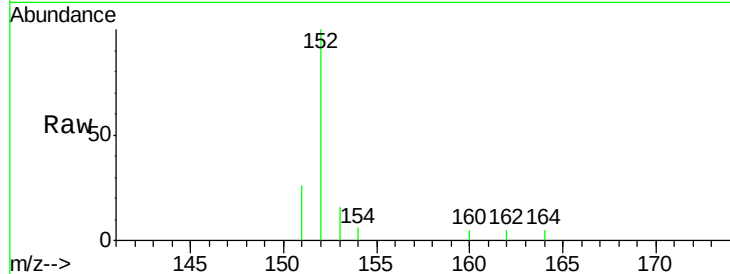
#13
Acenaphthylene
Concen: 0.17 ng m
RT: 14.15 min Scan# 800
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :

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

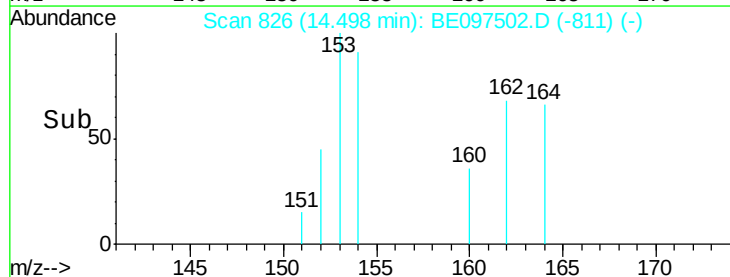
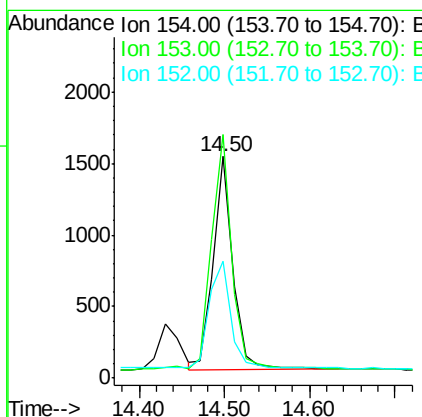
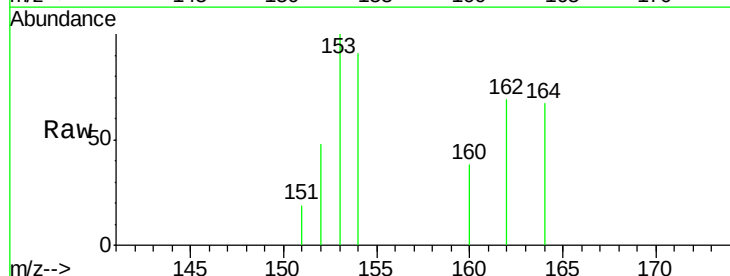
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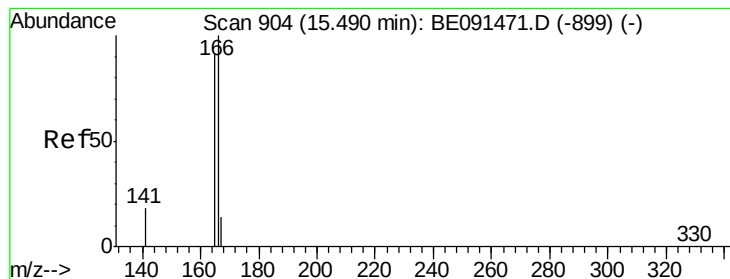
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#14
Acenaphthene
Concen: 0.05 ng
RT: 14.50 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Tgt 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

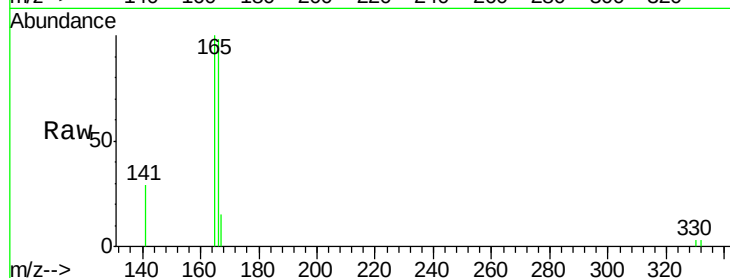
Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:166 Resp: 2942

Ion Ratio Lower Upper

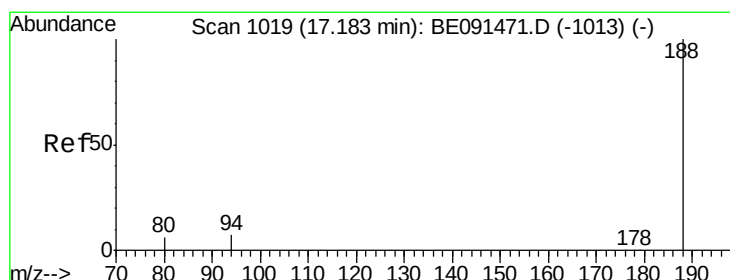
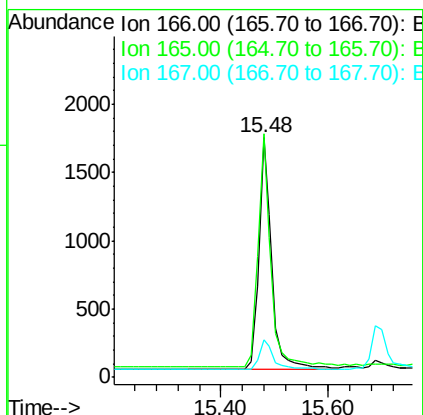
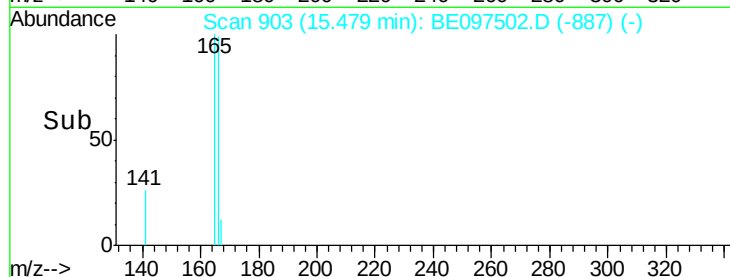
166 100

165 98.7 79.2 118.8

167 14.1 10.8 16.2

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#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.17 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

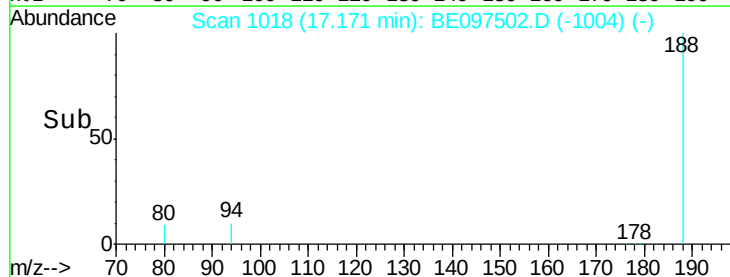
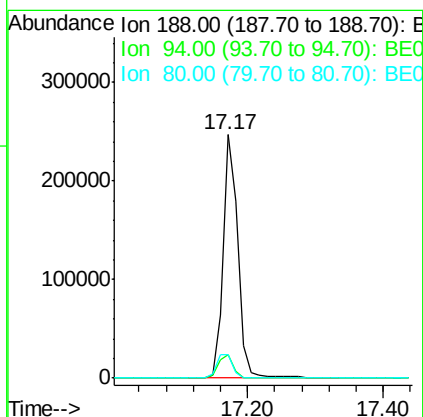
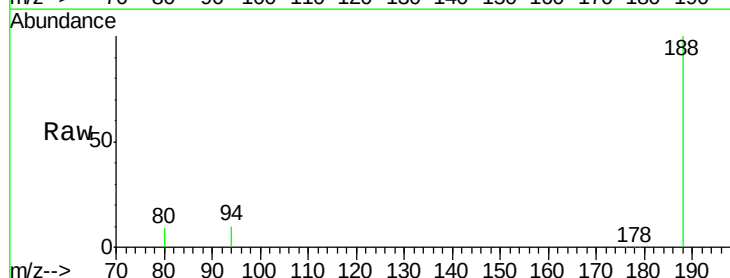
Tgt Ion:188 Resp: 378233

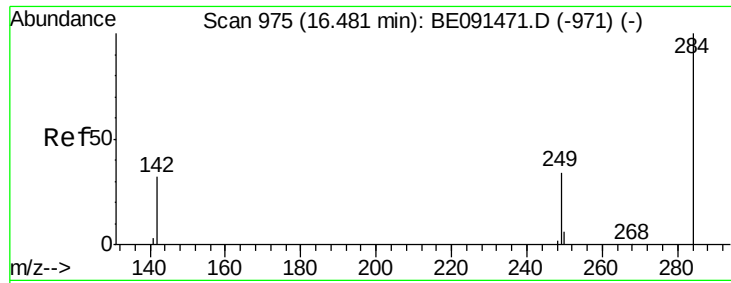
Ion Ratio Lower Upper

188 100

94 9.8 5.4 8.2#

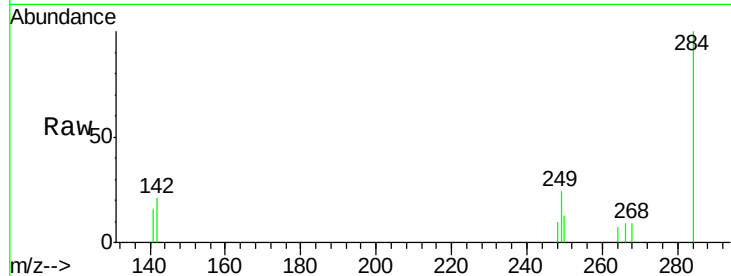
80 9.5 5.0 7.4#





#17
Hexachlorobenzene
Concen: 0.06 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

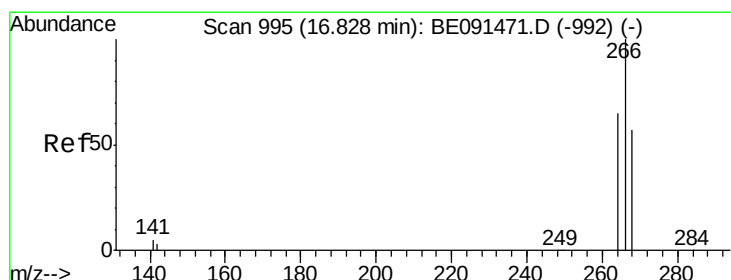
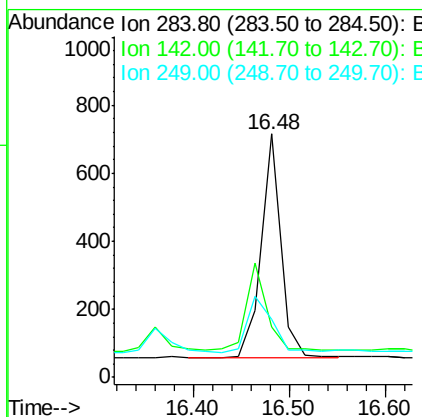
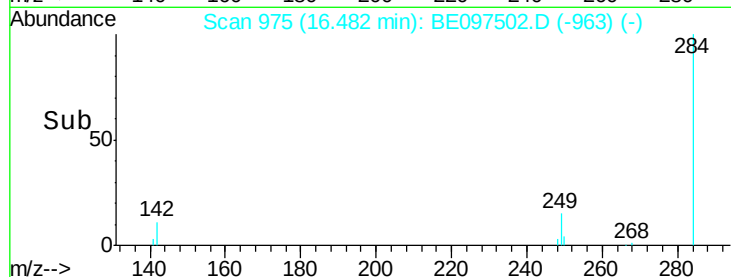
Instrument :
BNA_E
ClientSampleId :



Tgt Ion: 284 Resp: 943
Ion Ratio Lower Upper
284 100
142 41.3 31.0 46.4
249 31.2 25.8 38.8

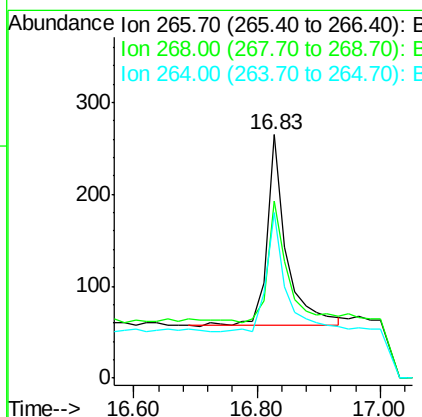
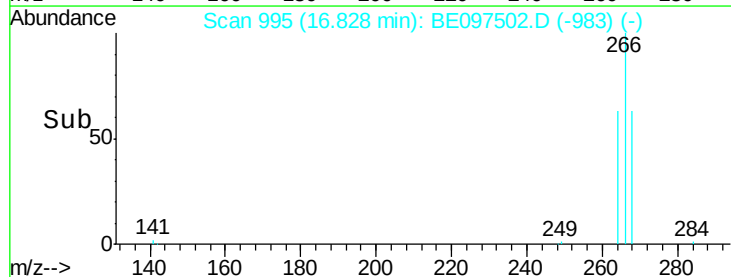
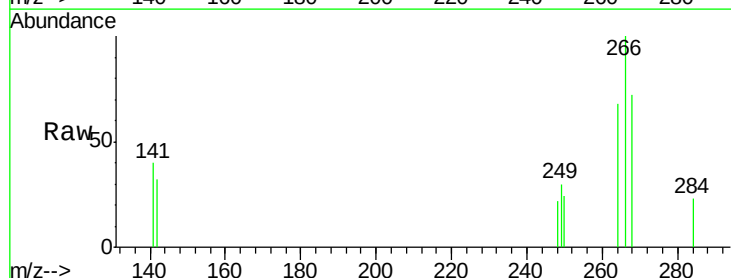
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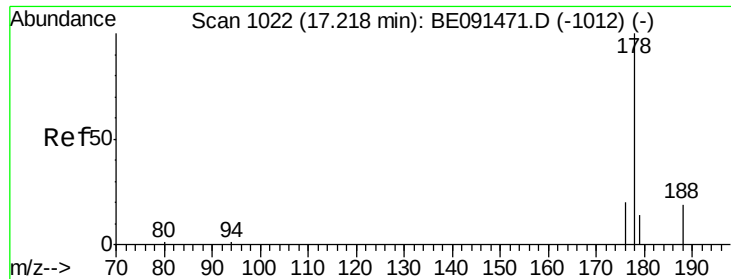
mohammad
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#18
Pentachlorophenol
Concen: 0.25 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Tgt Ion: 266 Resp: 465
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

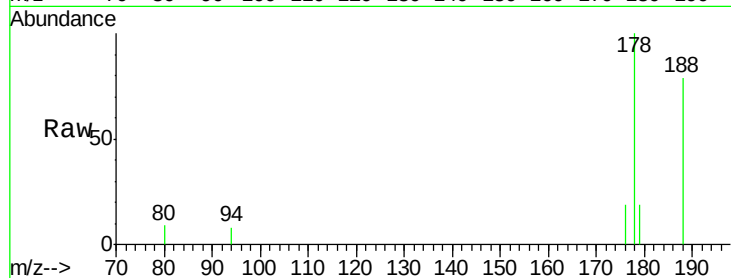
Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Instrument :

BNA_E

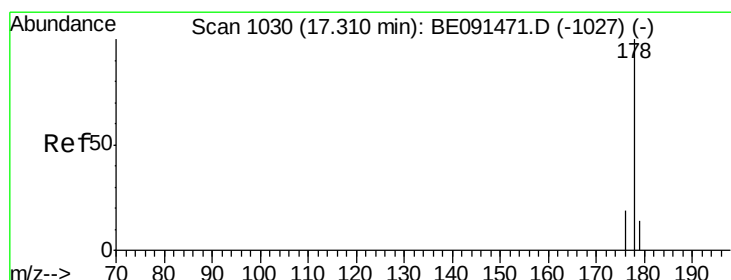
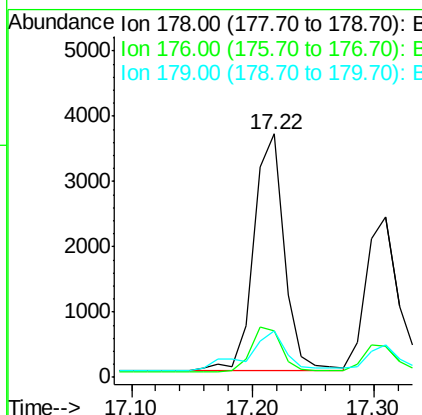
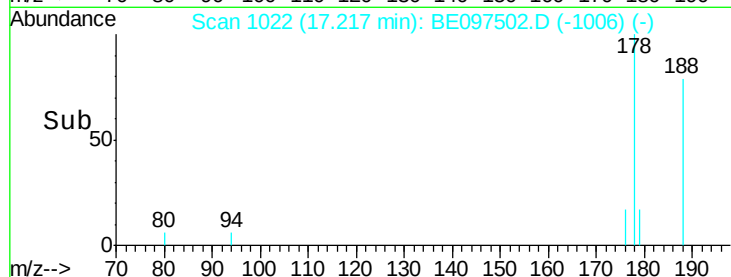
ClientSampleId :



Tgt Ion:	178	Resp:	6414
Ion Ratio	Lower	Upper	
178	100		
176	12.1	15.5	23.3#
179	9.6	13.1	19.7#

Manual Integrations
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#20

Anthracene

Concen: 0.05 ng

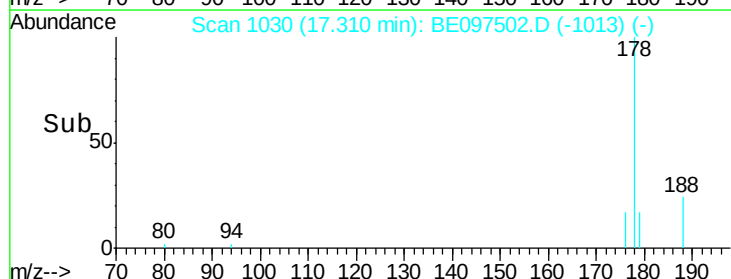
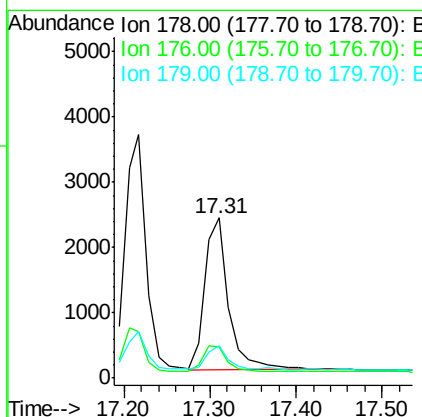
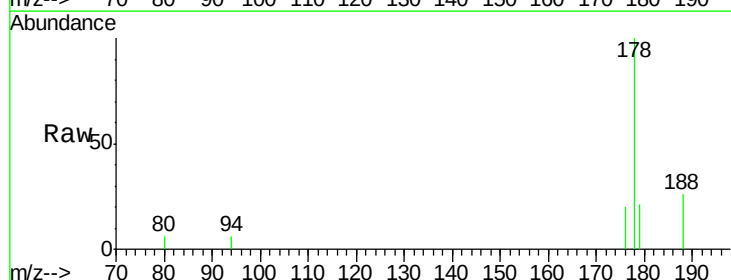
RT: 17.31 min Scan# 1030

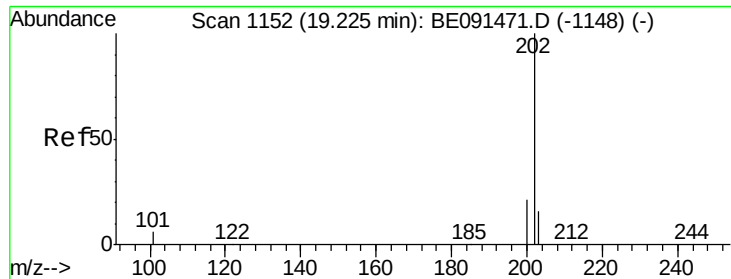
Delta R.T. -0.00 min

Lab File: BE097502.D

Acq: 21 Mar 2016 16:55

Tgt Ion:	178	Resp:	4540
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.9	22.3
179	13.5	12.2	18.4





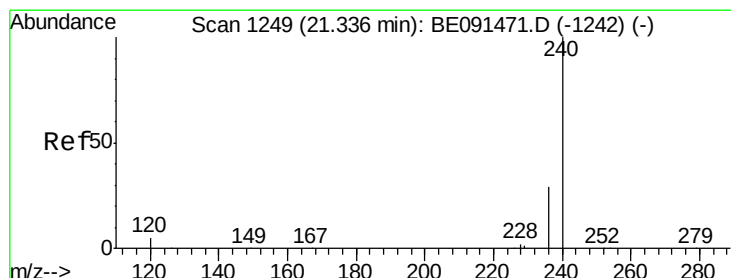
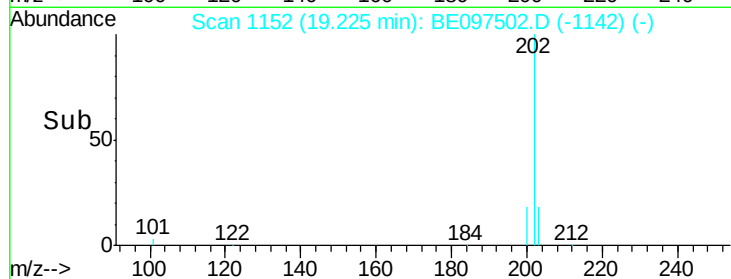
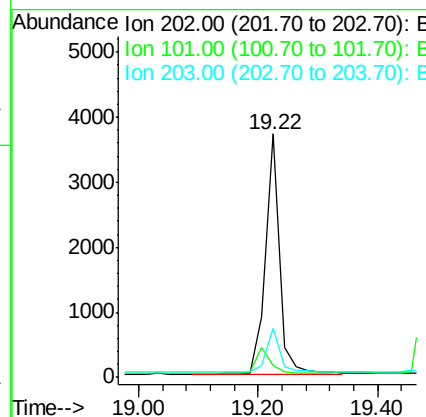
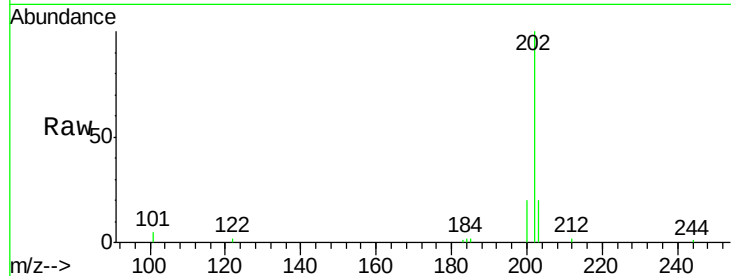
#21
Fluoranthene
Concen: 0.05 ng
RT: 19.22 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :

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

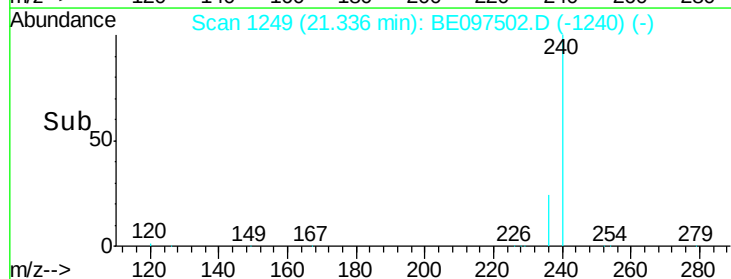
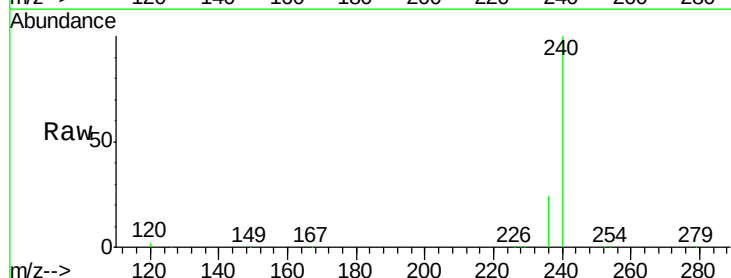
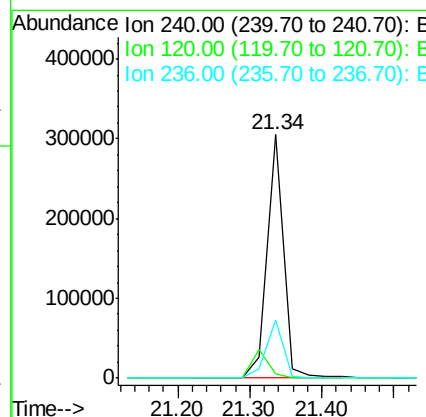
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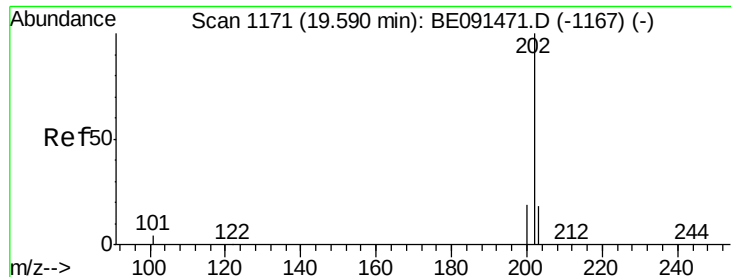
mohammad
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#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

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





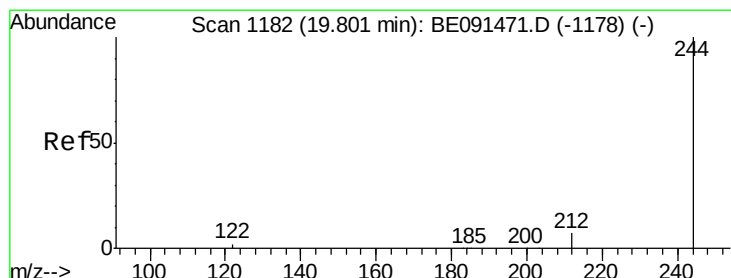
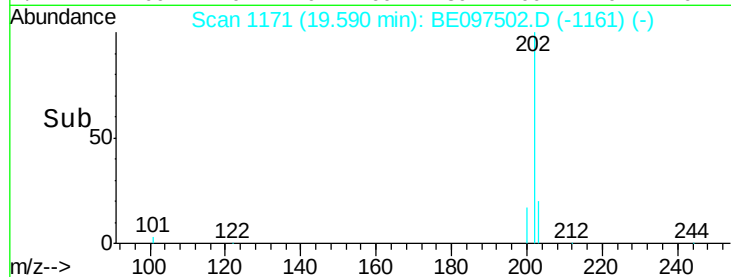
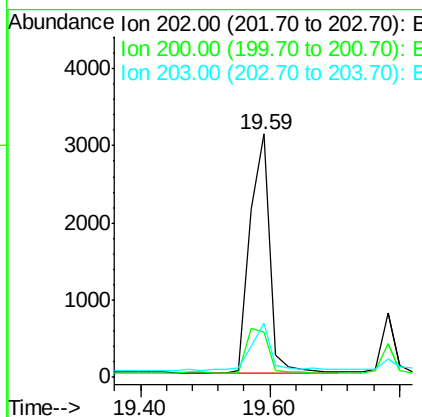
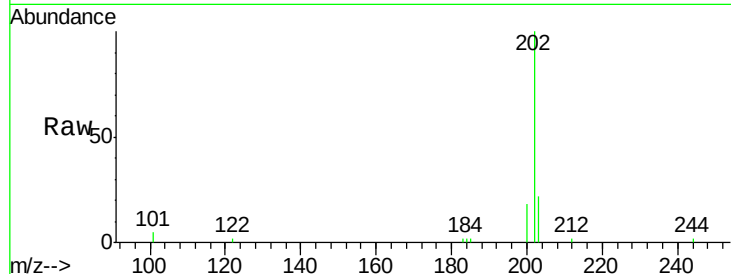
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :

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

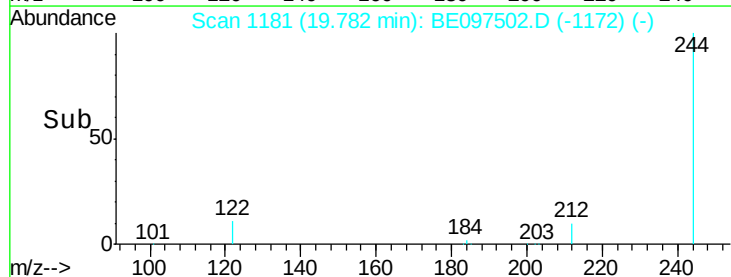
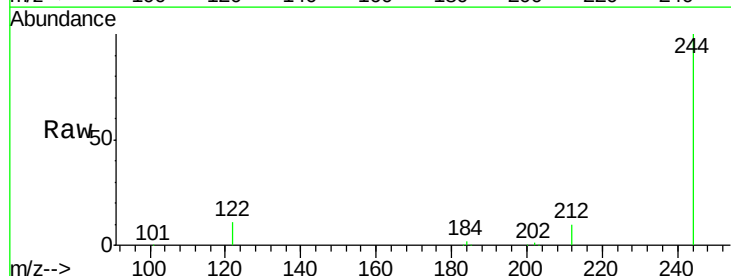
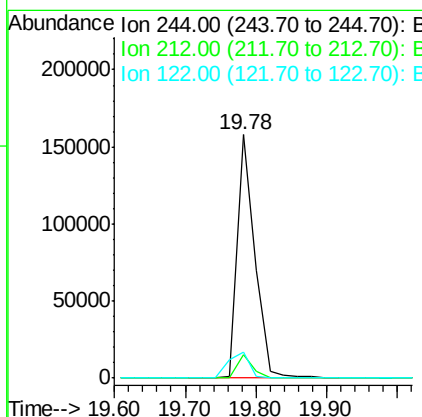
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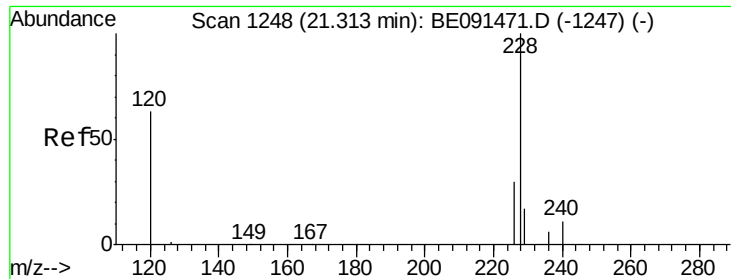
mohammad
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#24
Terphenyl-d14
Concen: 4.70 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

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





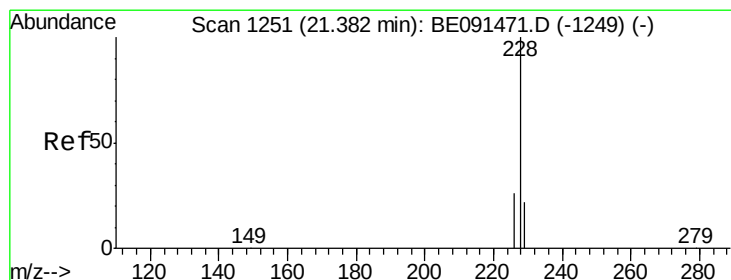
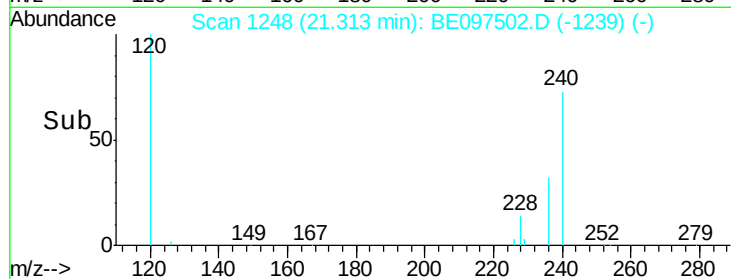
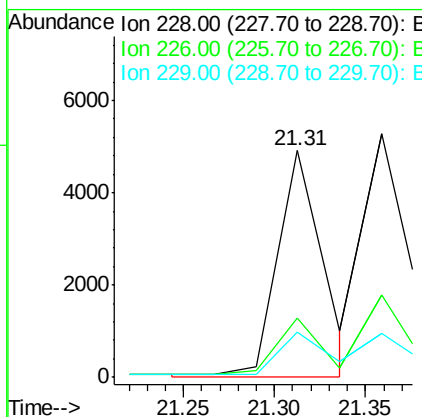
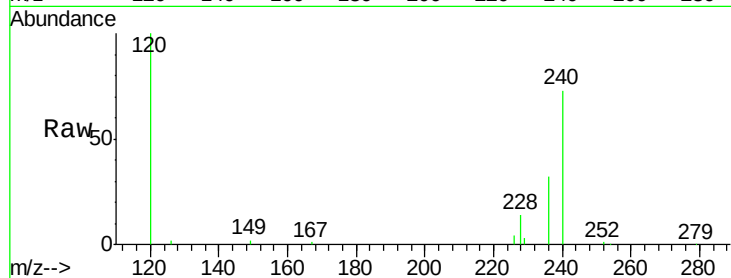
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Instrument :
BNA_E
ClientSampleId :

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

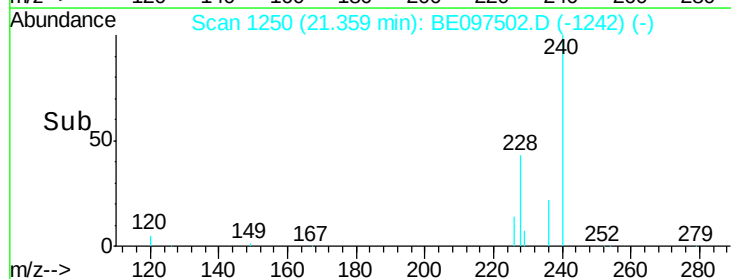
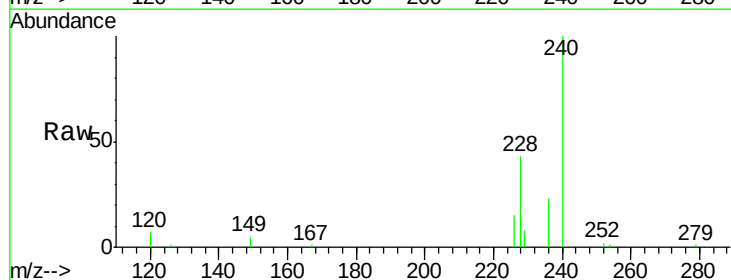
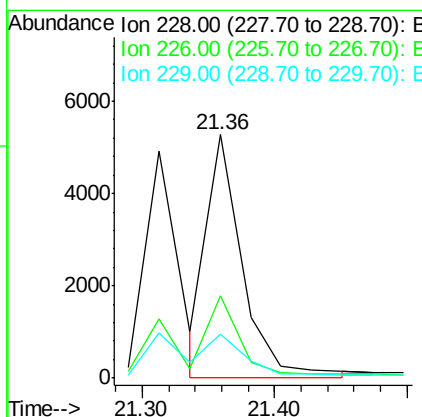
Manual Integrations
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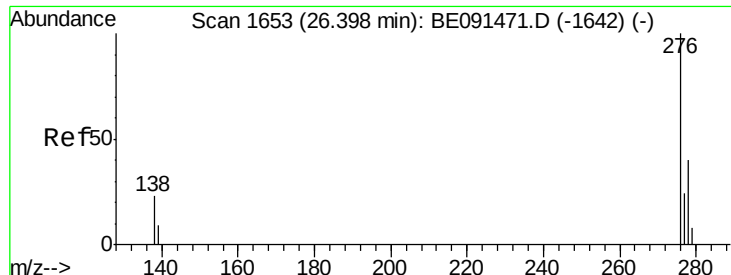
mohammad
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#26
Chrysene
Concen: 0.07 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

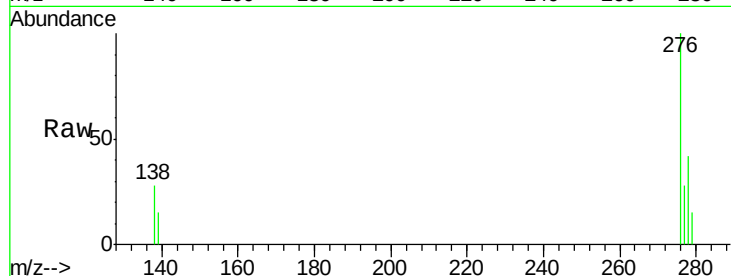
Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.8	18.9	28.3#
229	17.9	19.1	28.7#





#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: BE097502.D
Acq: 21 Mar 2016 16:55

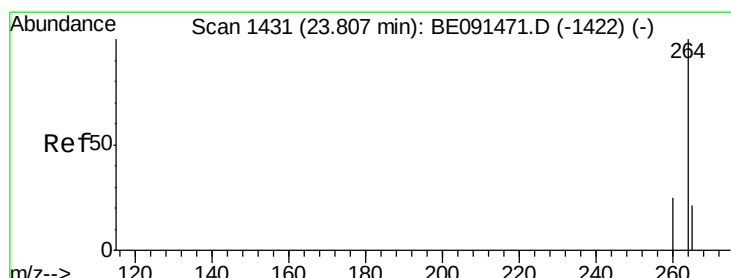
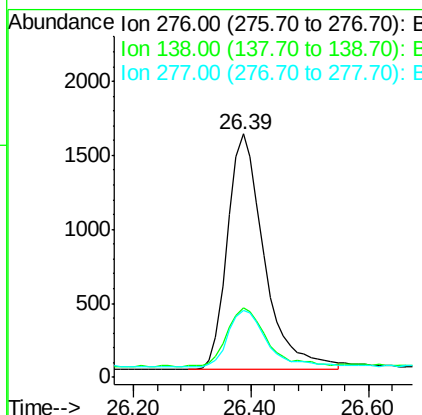
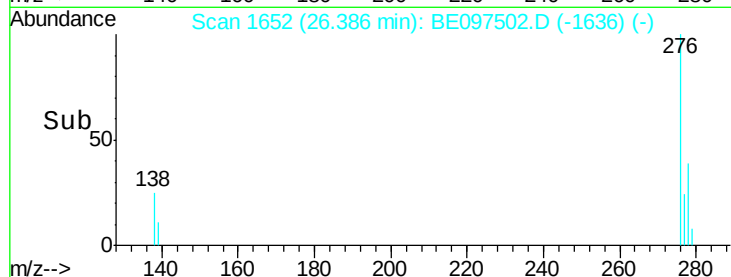
Instrument :
BNA_E
ClientSampleId :



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

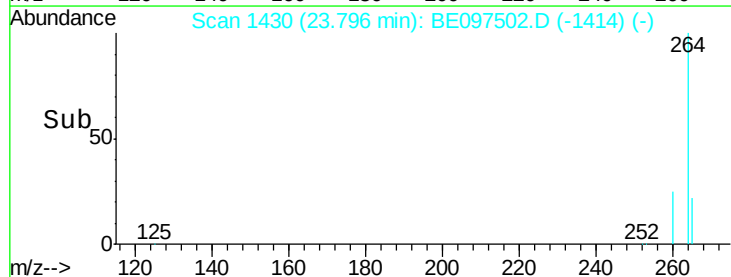
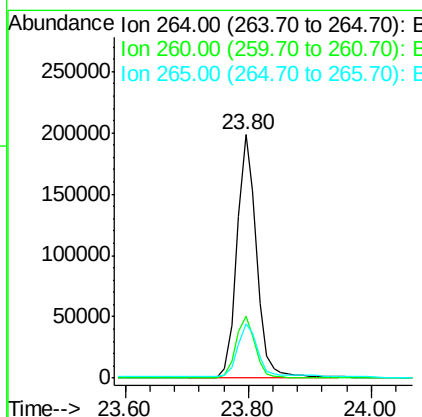
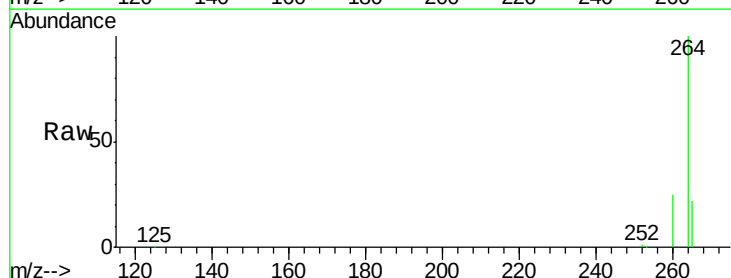
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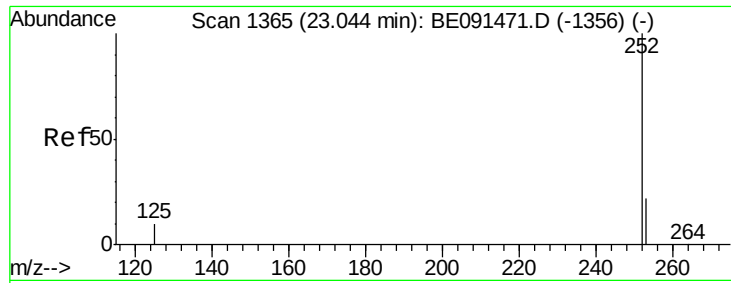
mohammad
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

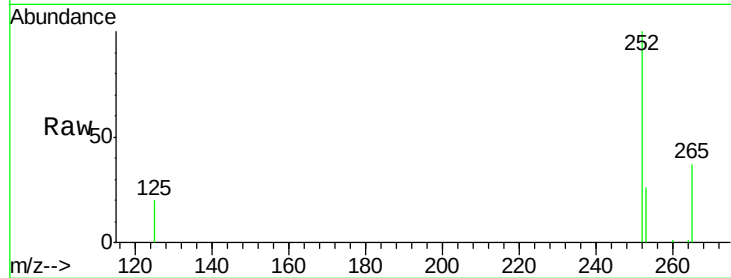
Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.1	20.1	30.1
265	22.4	18.3	27.5





#29
Benzo(b)fluoranthene
Concen: 0.06 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

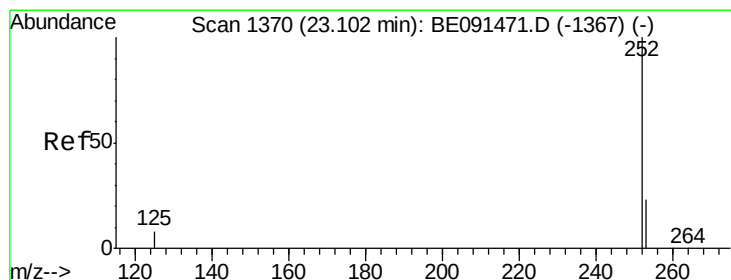
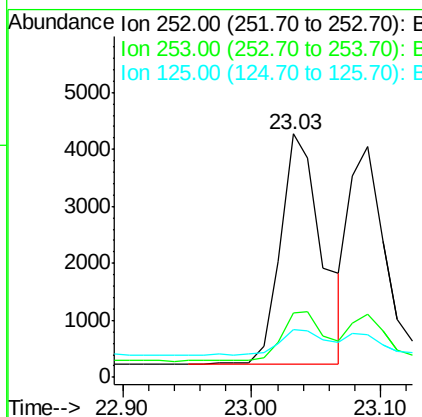
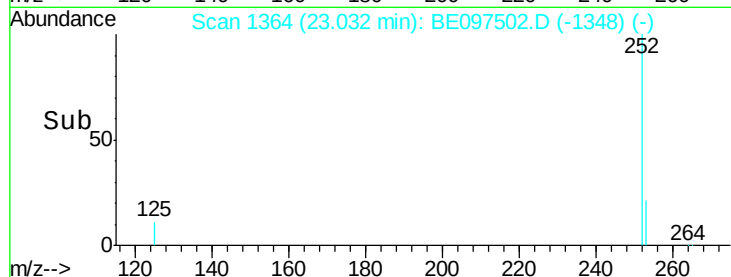
Instrument :
BNA_E
ClientSampleId :



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#

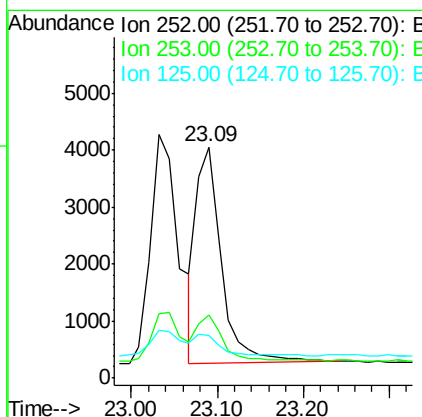
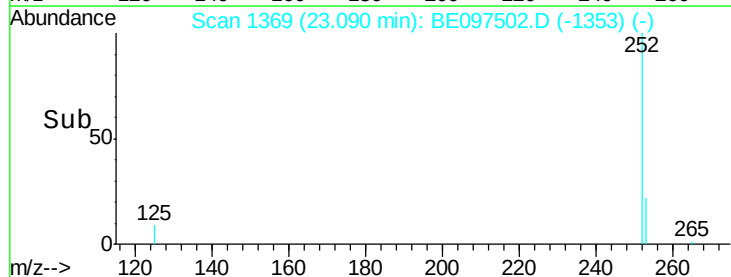
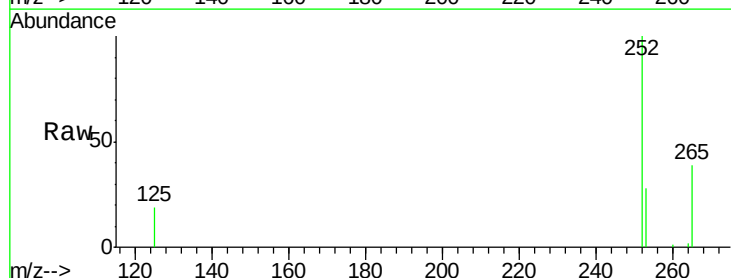
Manual Integrations
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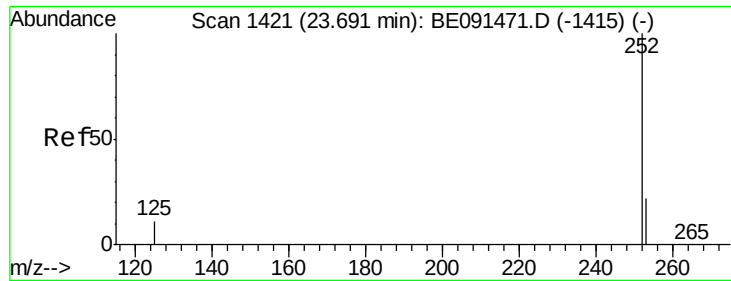
mohammad
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#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

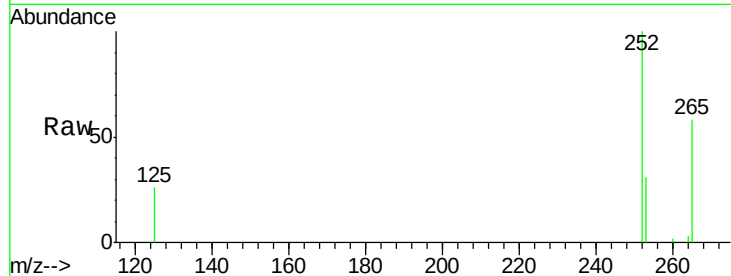
Tgt Ion: 252 Resp: 7653
Ion Ratio Lower Upper
252 100
253 27.5 20.2 30.4
125 18.5 9.4 14.2#





#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

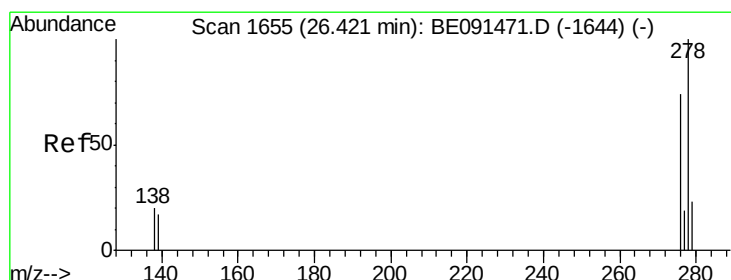
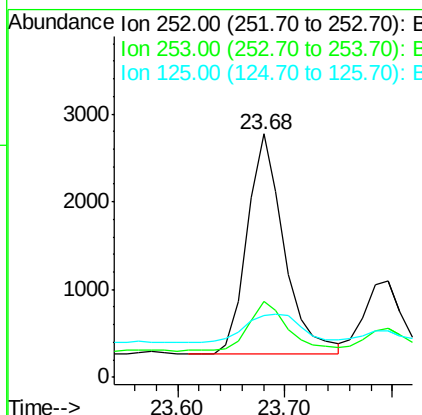
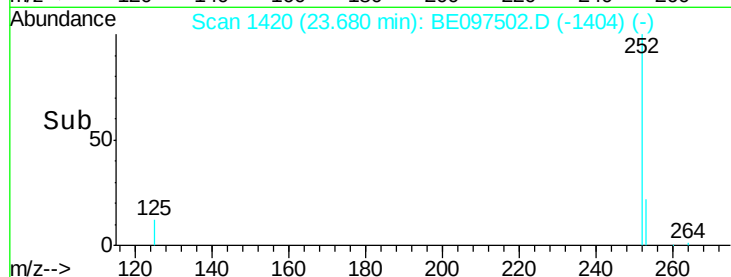
Instrument :
BNA_E
ClientSampleId :



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

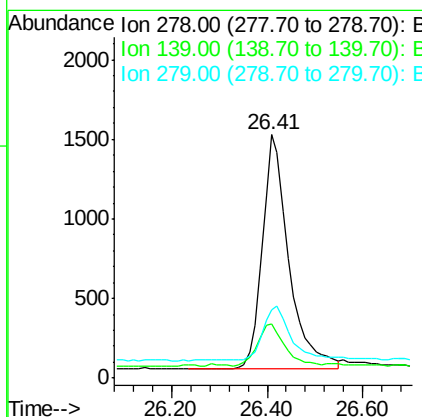
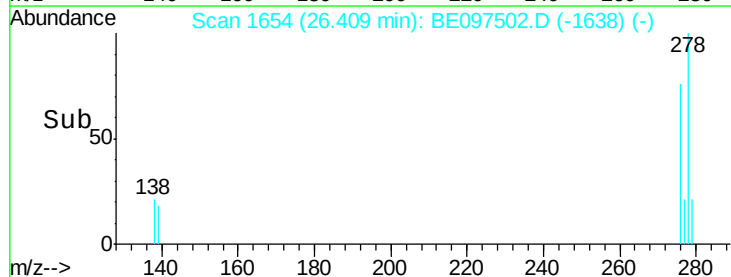
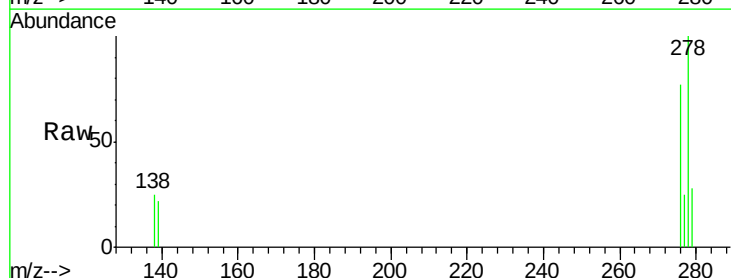
Manual Integrations
APPROVED

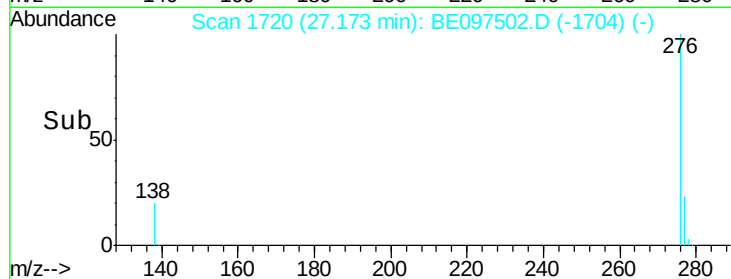
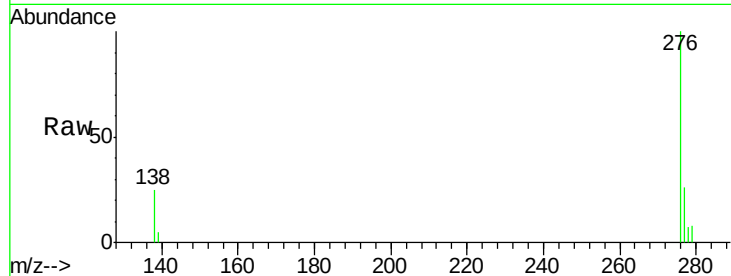
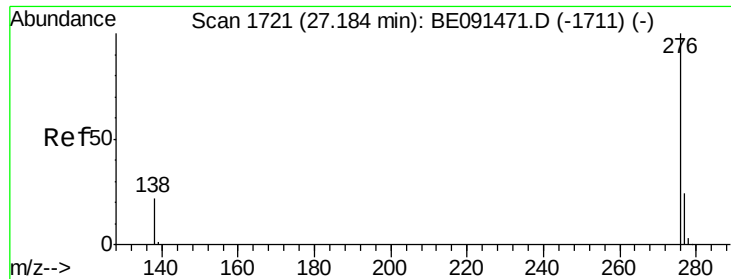
mohammad
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#32
Dibenzo(a,h)anthracene
Concen: 0.05 ng
RT: 26.41 min Scan# 1654
Delta R.T. -0.01 min
Lab File: BE097502.D
Acq: 21 Mar 2016 16:55

Tgt Ion	Ratio	Resp Lower	Resp 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: BE097502.D

Acq: 21 Mar 2016 16:55

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

Instrument :

BNA_E

ClientSampleId :

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