

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
 Data File : BM004695.D
 Acq On : 18 Mar 2016 23:47
 Operator : UM/SJ
 Sample : MDL-06-W
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-W

Manual Integrations
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 3/21/2016 2:46:49 PM

Quant Time: Mar 21 01:43:09 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BM031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 19 07:50:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	30449	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	120718	5.00	ng	-0.02
10) Acenaphthene-d10	14.46	164	64760	5.00	ng	0.00
16) Phenanthrene-d10	17.19	188	117778	5.00	ng	-0.03
22) Chrysene-d12	21.39	240	140643	5.00	ng	0.00
28) Perylene-d12	23.69	264	117916	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.42	112	48336	6.88	ng	0.00
5) Phenol-d6	6.99	99	58560	6.80	ng	0.00
7) Nitrobenzene-d5	8.99	82	21157	3.64	ng	0.00
11) 2,4,6-Tribromophenol	15.95	330	13751	6.40	ng	0.00
12) 2-Fluorobiphenyl	13.09	172	80531	4.35	ng	0.00
24) Terphenyl-d14	19.84	244	71489	4.02	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.37	88	305	0.03	ng	# 79
3) n-Nitrosodimethylamine	3.66	42	165	0.05	ng	# 87
8) Naphthalene	10.66	128	1747	0.05	ng	# 89
9) 2-Methylnaphthalene	12.29	142	1105	0.05	ng	# 94
13) Acenaphthylene	14.17	152	1388	0.04	ng	99
14) Acenaphthene	14.53	154	1292	0.06	ng	88
15) Fluorene	15.53	166	1180	0.05	ng	# 99
17) Hexachlorobenzene	16.53	284	383	0.05	ng	# 100
18) Pentachlorophenol	16.86	266	209	0.17	ng	# 85
19) Phenanthrene	17.24	178	2694	0.06	ng	# 95
20) Anthracene	17.34	178	1527	0.05	ng	99
21) Fluoranthene	19.26	202	2191	0.05	ng	98
23) Pyrene	19.64	202	2346	0.05	ng	98
25) Benzo(a)anthracene	21.37	228	2682m	0.05	ng	
26) Chrysene	21.43	228	2266m	0.05	ng	
27) Indeno(1,2,3-cd)pyrene	26.02	276	2122	0.05	ng	99
29) Benzo(b)fluoranthene	22.99	252	2313	0.05	ng	# 77
30) Benzo(k)fluoranthene	23.04	252	2132	0.05	ng	# 76
31) Benzo(a)pyrene	23.59	252	1937	0.05	ng	# 67
32) Dibenzo(a,h)anthracene	26.03	278	1674	0.05	ng	# 77
33) Benzo(g,h,i)perylene	26.73	276	1944	0.05	ng	# 89

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

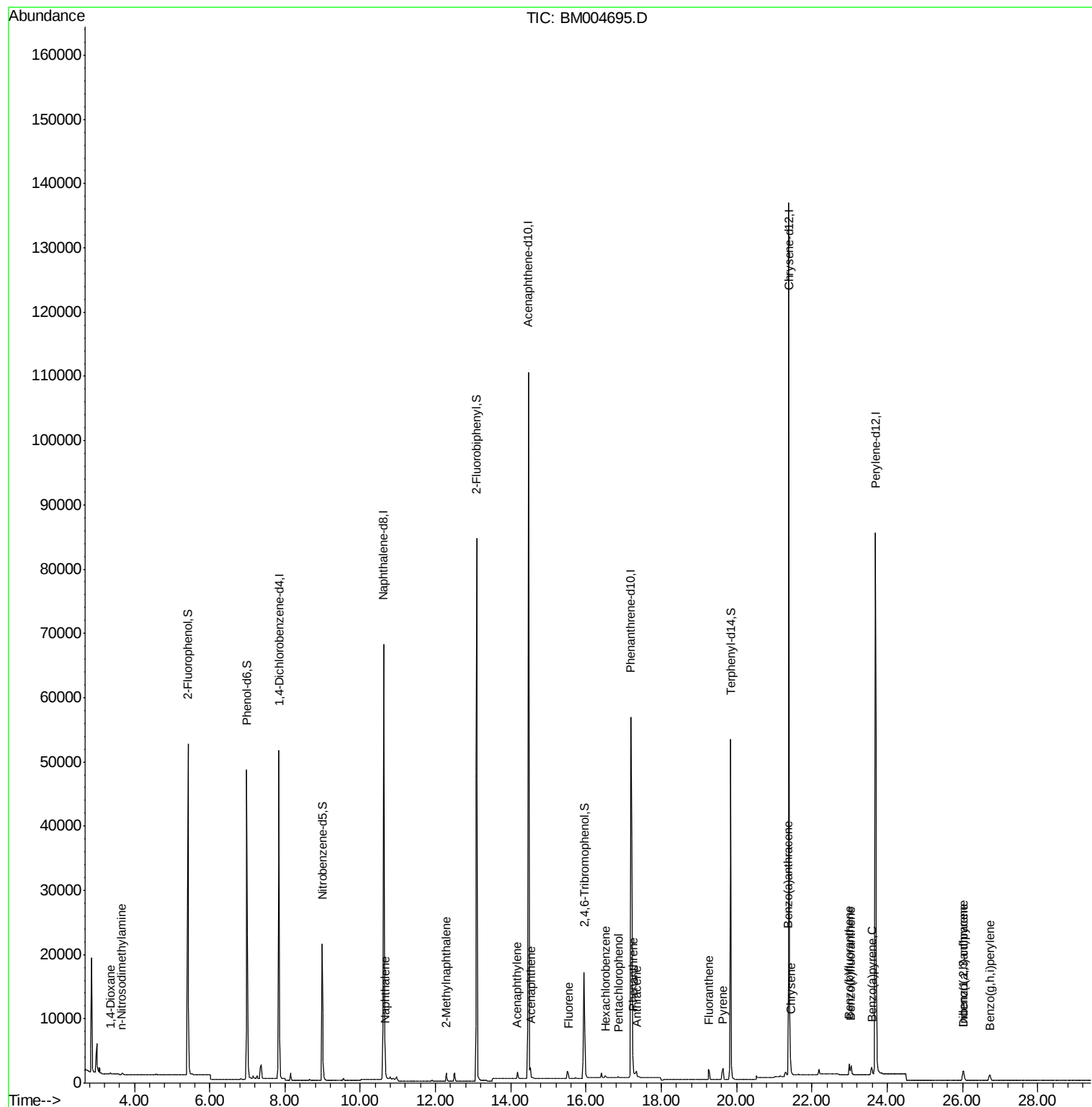
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
Data File : BM004695.D
Acq On : 18 Mar 2016 23:47
Operator : UM/SJ
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Misc :
ALS Vial : 16 Sample Multiplier: 1

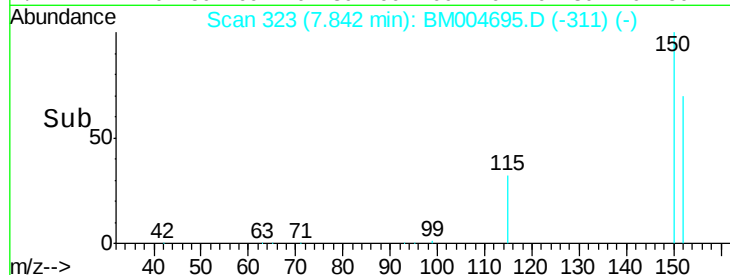
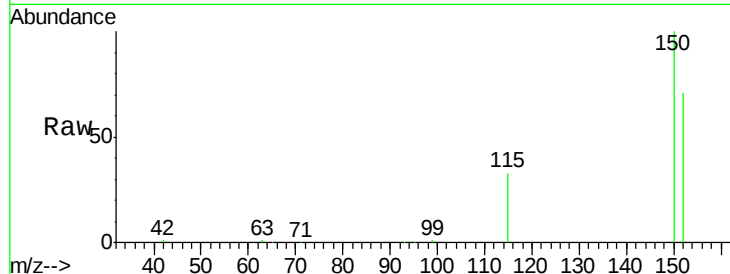
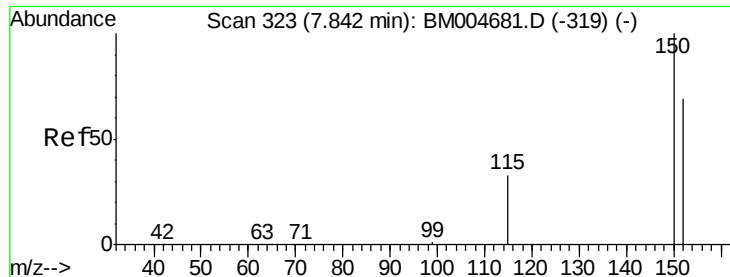
Instrument :
BNA_M
ClientSampleId :
MDL-06-W

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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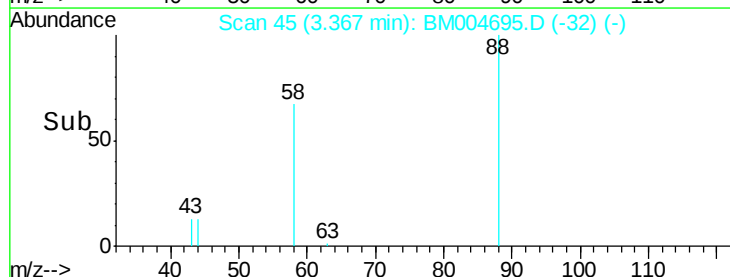
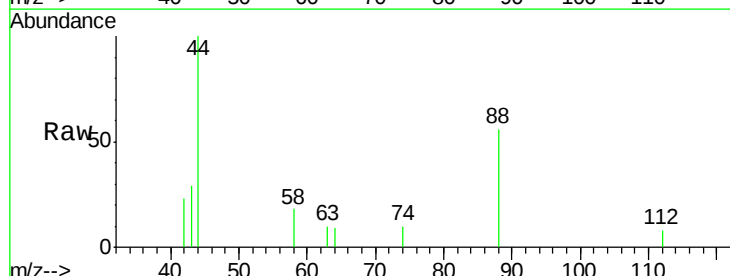
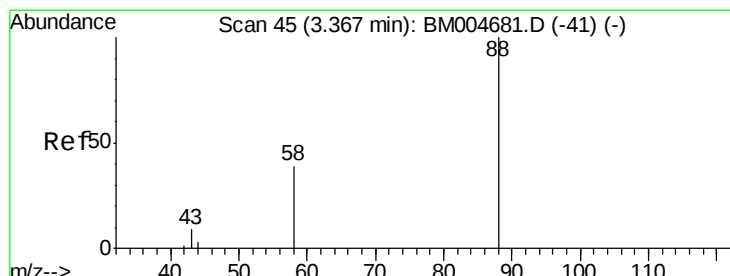
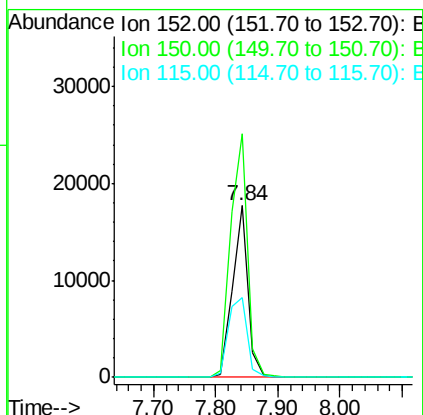
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1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 323
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
152	100		
150	141.8	115.9	173.9
115	46.3	38.4	57.6

Instrument :
BNA_M
ClientSampleId :
MDL-06-W

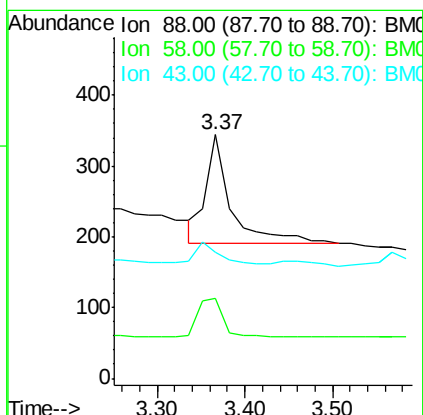
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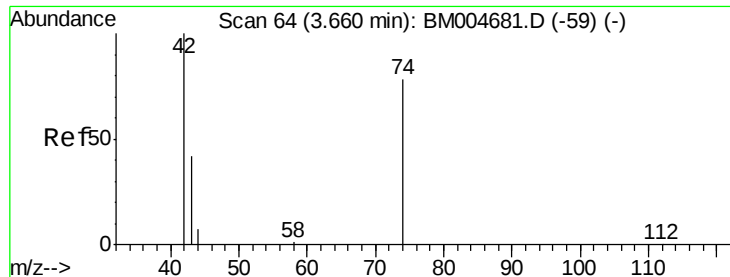
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#2
1,4-Dioxane
Concen: 0.03 ng
RT: 3.37 min Scan# 45
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	36.4	43.9	65.9#
43	18.7	19.9	29.9#





#3

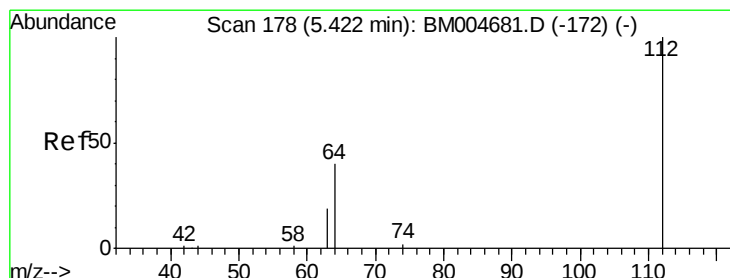
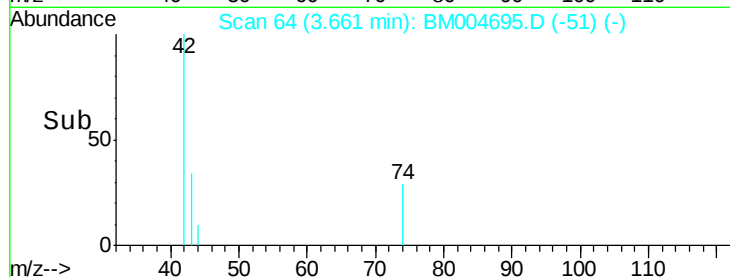
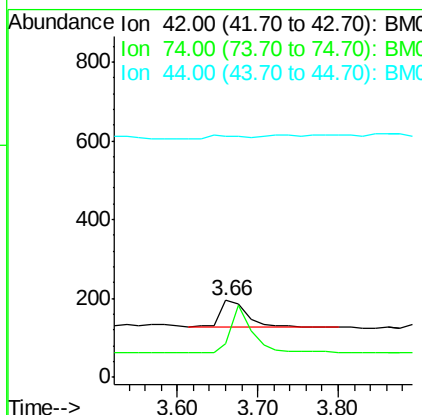
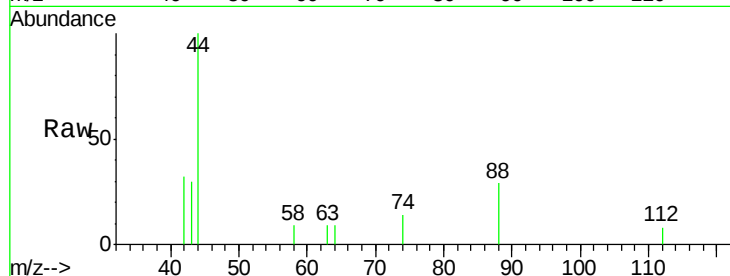
n-Nitrosodimethylamine
Concen: 0.05 ng
RT: 3.66 min Scan# 64
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Instrument :
BNA_M
ClientSampleId :
MDL-06-W

Tgt Ion	Ratio	Lower	Upper
42	100		
74	135.2	120.9	181.3
44	0.0	6.0	9.0#

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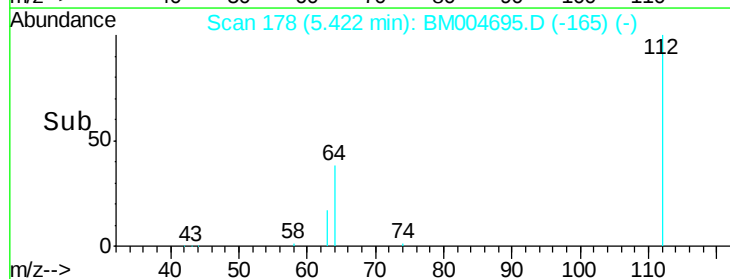
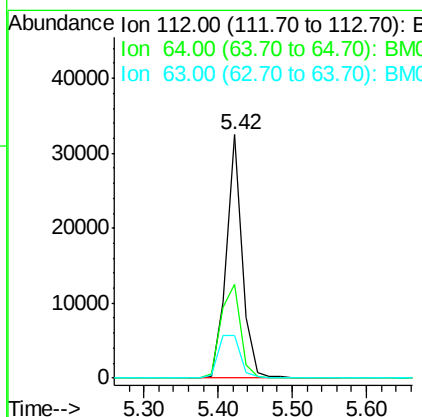
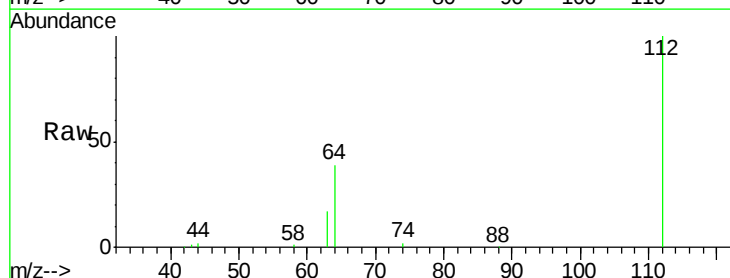
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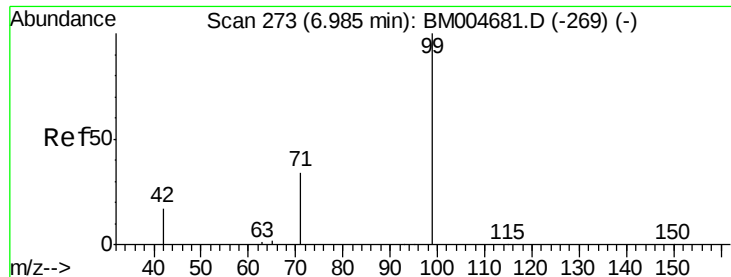


#4

2-Fluorophenol
Concen: 6.88 ng
RT: 5.42 min Scan# 178
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.9	37.0	55.6
63	24.0	19.3	28.9





#5

Phenol-d6

Concen: 6.80 ng

RT: 6.99 min Scan# 273

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

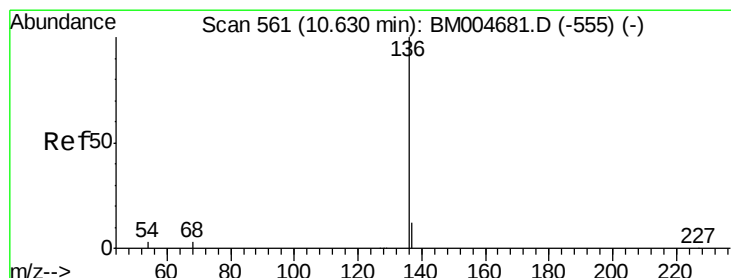
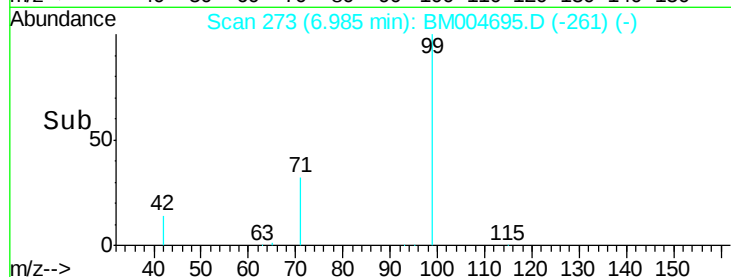
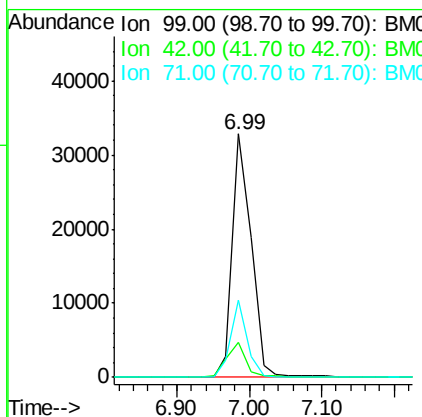
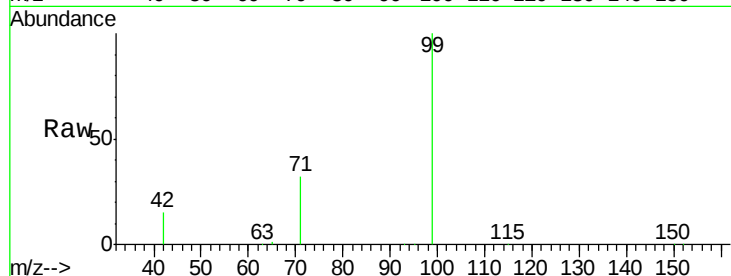
ClientSampleId :

MDL-06-W

Tgt Ion:	99	Resp:	58560
Ion	Ratio	Lower	Upper
99	100		
42	14.2	12.7	19.1
71	27.8	22.9	34.3

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#6

Naphthalene-d8

Concen: 5.00 ng

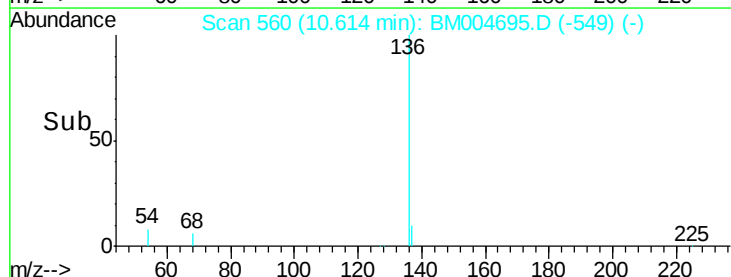
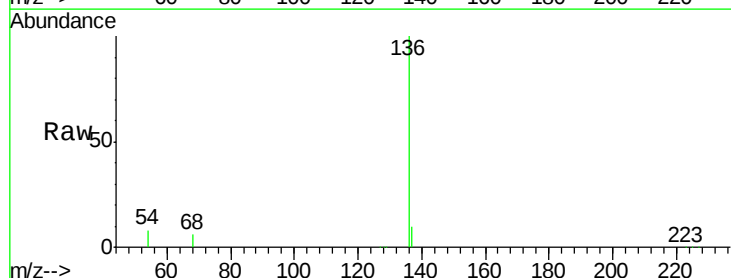
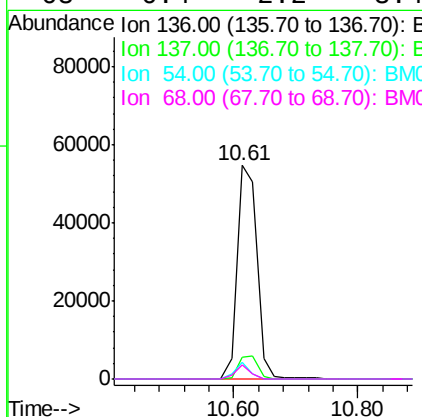
RT: 10.61 min Scan# 560

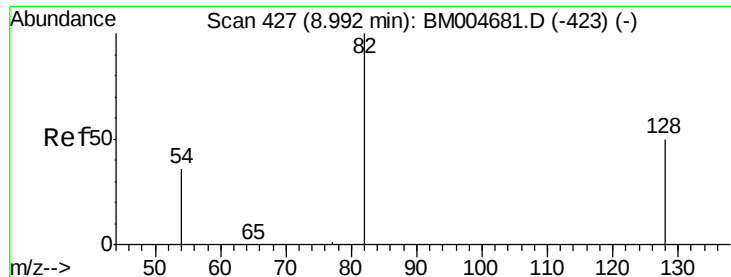
Delta R.T. -0.02 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	136	Resp:	120718
Ion	Ratio	Lower	Upper
136	100		
137	10.0	9.4	14.2
54	7.8	2.2	3.4#
68	6.4	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.64 ng

RT: 8.99 min Scan# 427

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

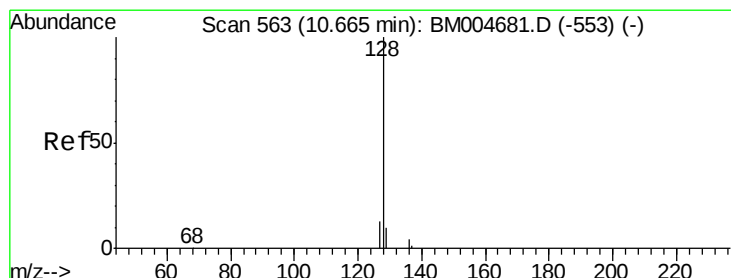
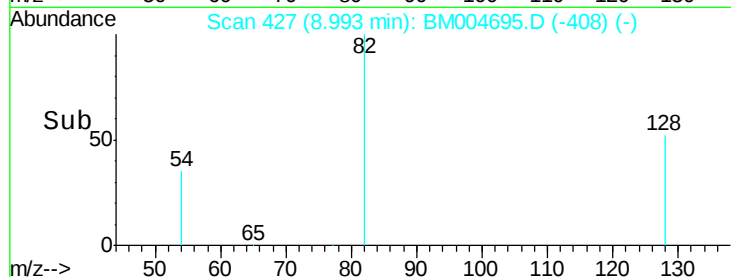
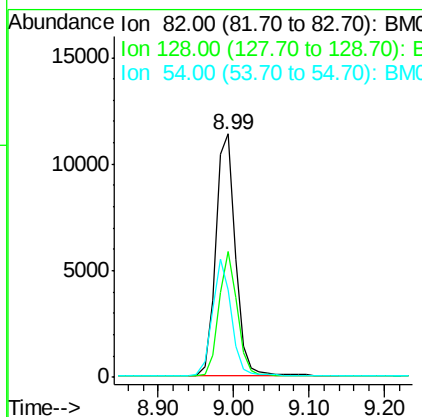
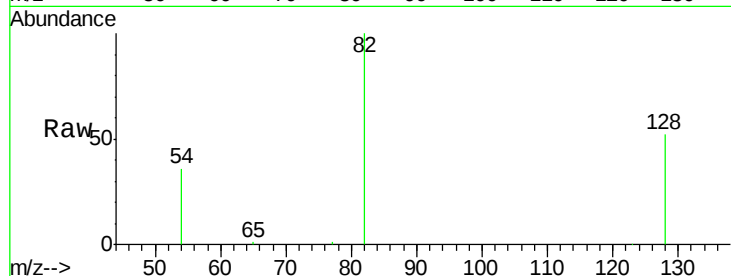
ClientSampleId :

MDL-06-W

Tgt Ion:	82	Resp:	21157
Ion Ratio	Lower	Upper	
82	100		
128	51.8	41.8	62.8
54	35.7	32.9	49.3

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#8

Naphthalene

Concen: 0.05 ng

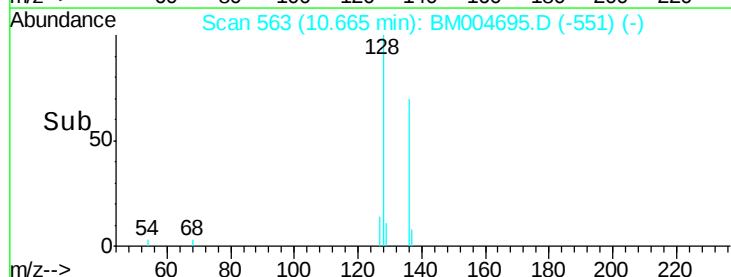
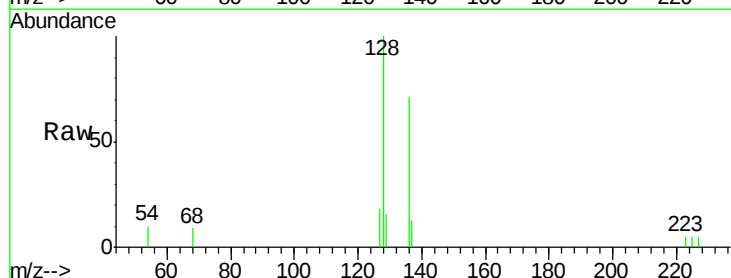
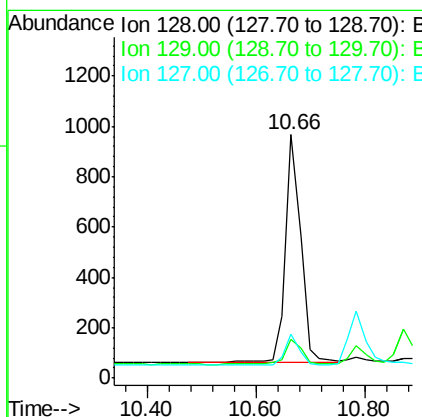
RT: 10.66 min Scan# 563

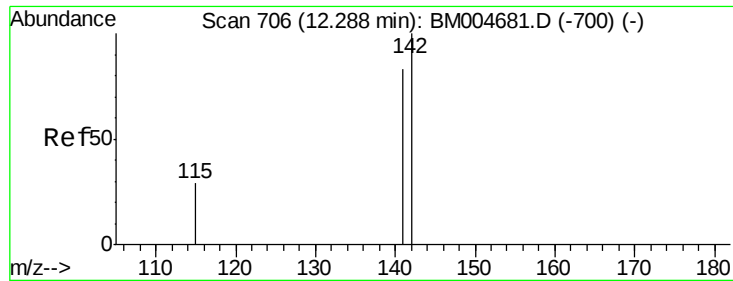
Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	128	Resp:	1747
Ion Ratio	Lower	Upper	
128	100		
129	15.8	8.9	13.3#
127	18.1	11.3	16.9#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.29 min Scan# 706

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

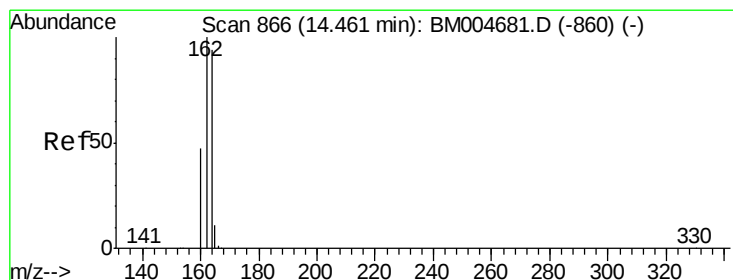
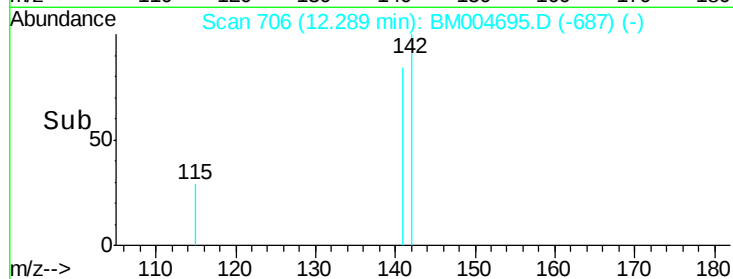
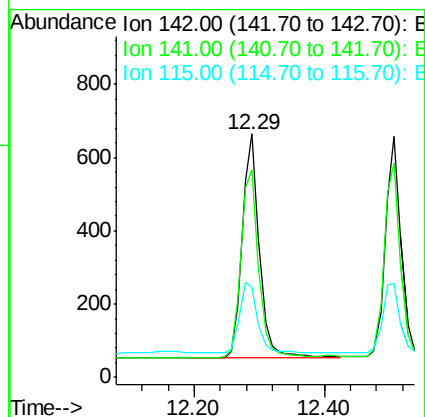
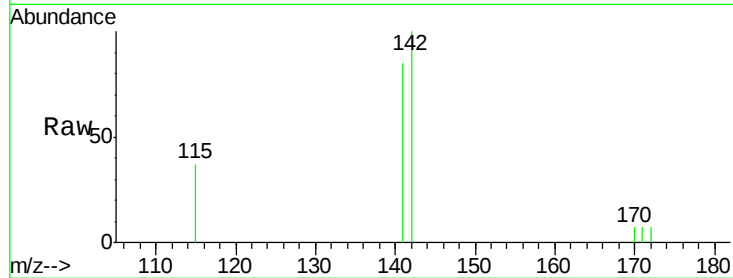
ClientSampleId :

MDL-06-W

Tgt Ion:	142	Resp:	1105
Ion Ratio	Lower	Upper	
142	100		
141	85.1	66.2	99.2
115	37.1	23.8	35.8#

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#10

Acenaphthene-d10

Concen: 5.00 ng

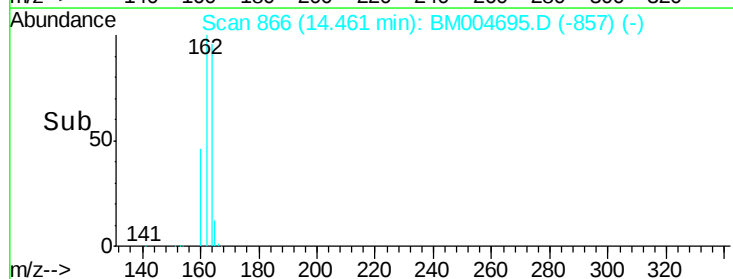
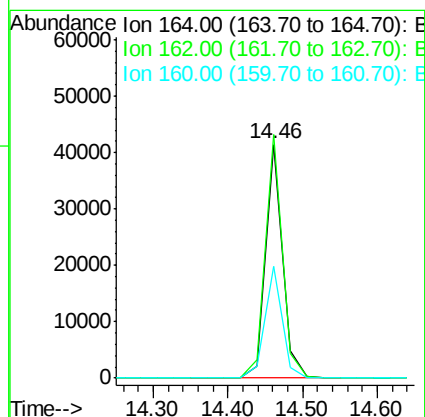
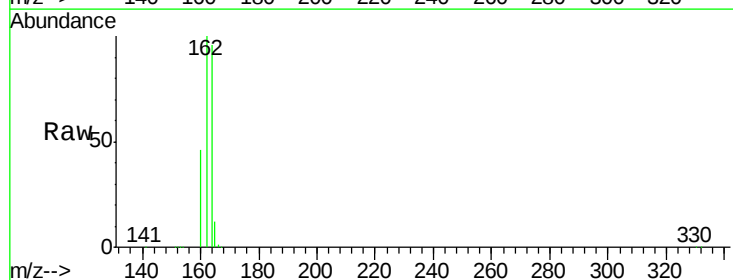
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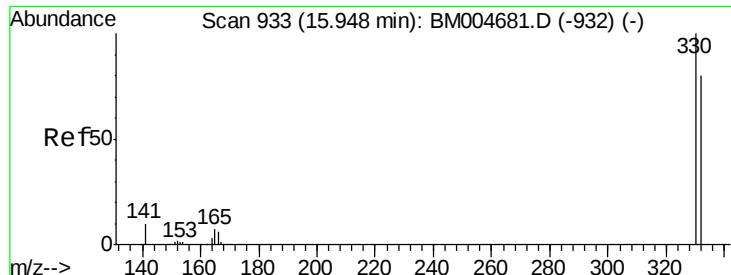
Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	164	Resp:	64760
Ion Ratio	Lower	Upper	
164	100		
162	104.1	85.4	128.0
160	47.8	40.2	60.2





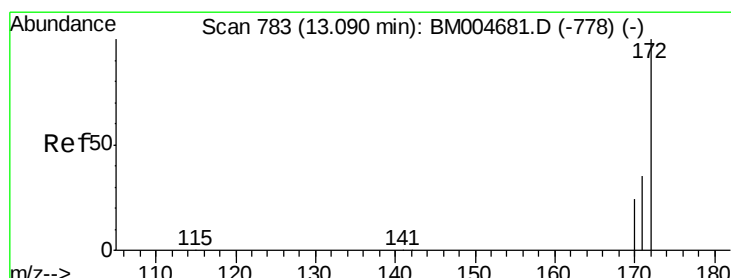
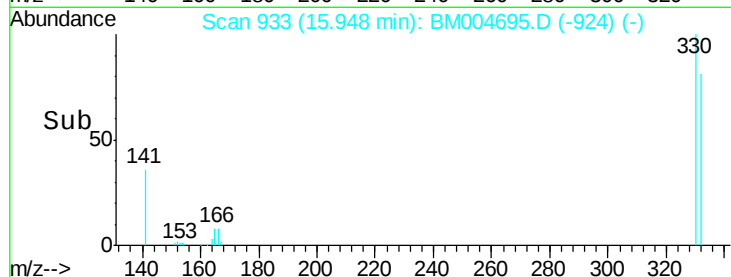
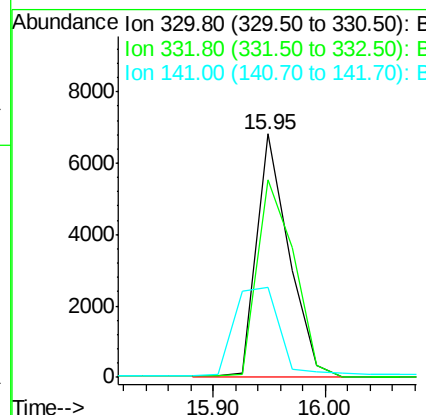
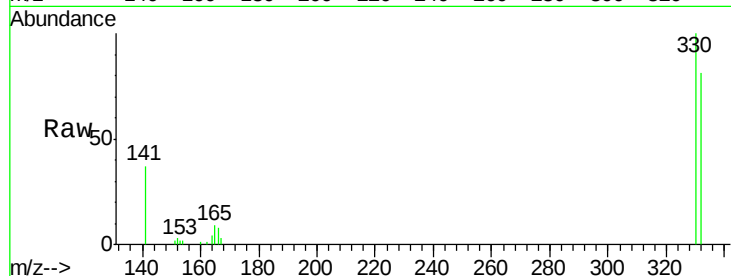
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 2,4,6-Tribromophenol
 Concen: 6.40 ng
 RT: 15.95 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: BM004695.D
 Acq: 18 Mar 2016 23:47

Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-W

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.5	93.9	140.9#
141	51.2	42.2	63.2

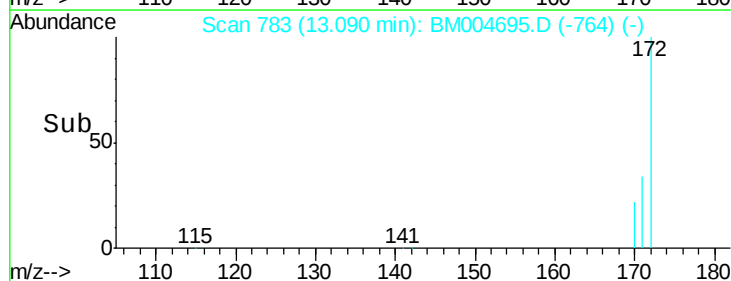
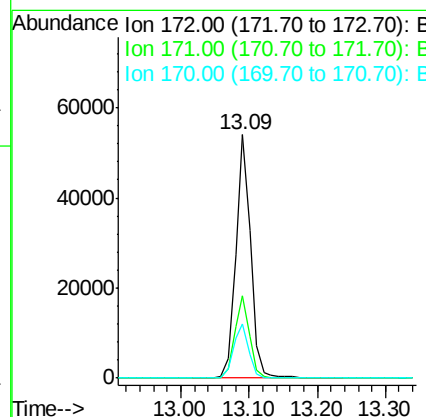
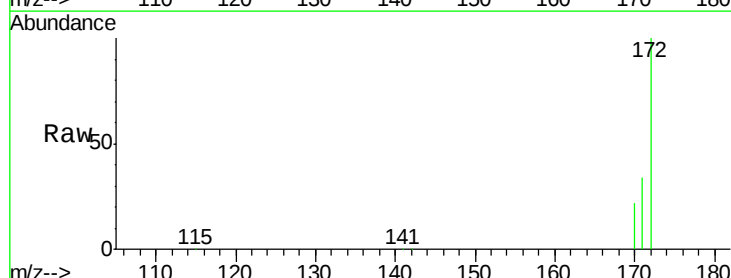
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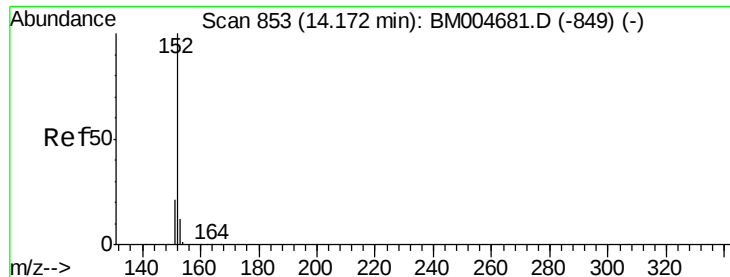
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#12
 2-Fluorobiphenyl
 Concen: 4.35 ng
 RT: 13.09 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BM004695.D
 Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.8	28.2	42.2
170	22.3	19.4	29.2





#13

Acenaphthylene

Concen: 0.04 ng

RT: 14.17 min Scan# 853

Delta R.T. 0.00 min

Lab File: BM004695.D

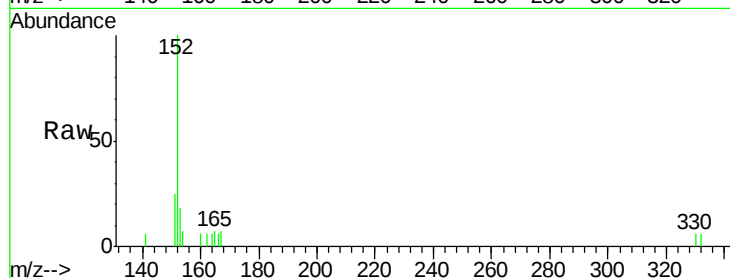
Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

ClientSampleId :

MDL-06-W



Tgt Ion:152 Resp: 1388

Ion Ratio Lower Upper

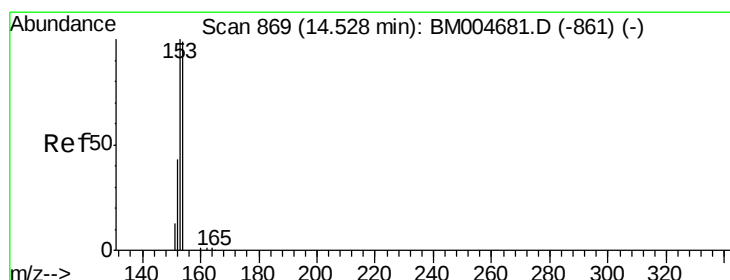
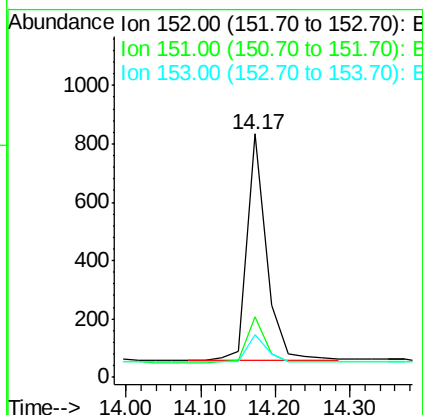
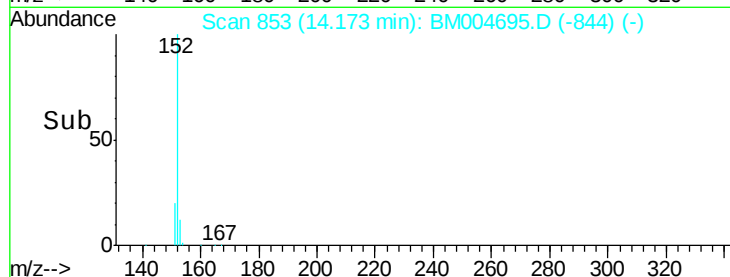
152 100

151 19.2 15.8 23.6

153 13.1 10.2 15.2

Manual Integrations
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#14

Acenaphthene

Concen: 0.06 ng

RT: 14.53 min Scan# 869

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

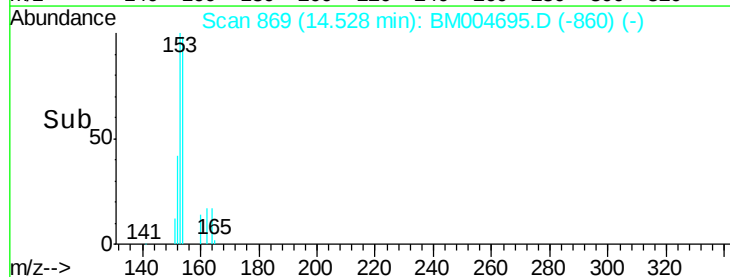
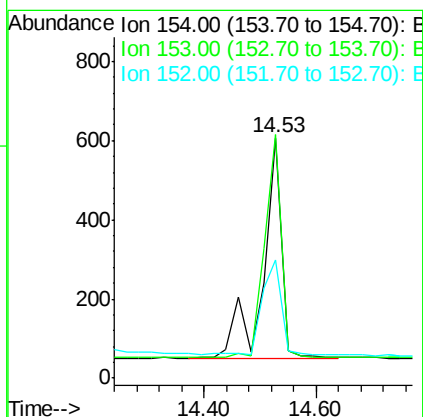
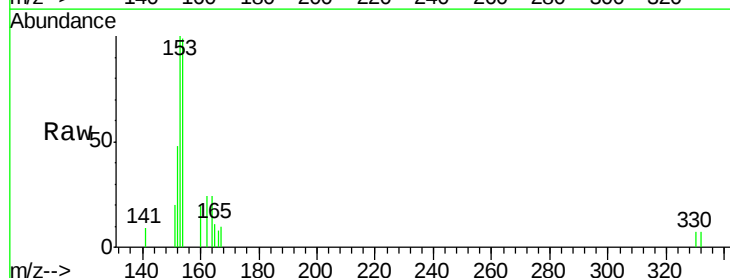
Tgt Ion:154 Resp: 1292

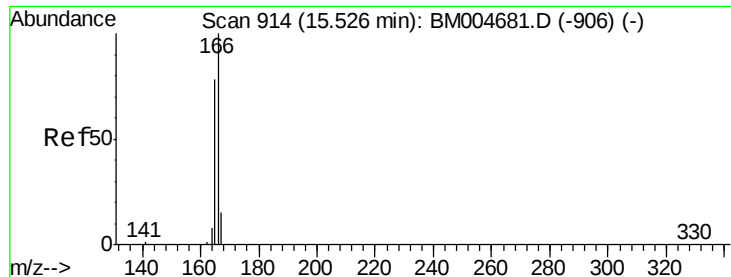
Ion Ratio Lower Upper

154 100

153 89.8 83.8 125.6

152 44.7 40.3 60.5





#15

Fluorene

Concen: 0.05 ng

RT: 15.53 min Scan# 914

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

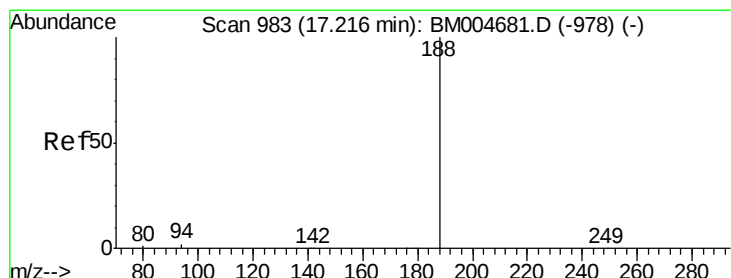
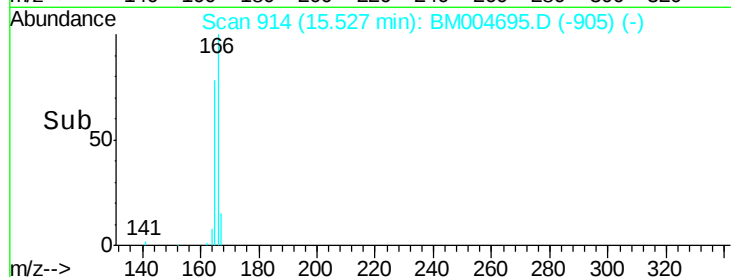
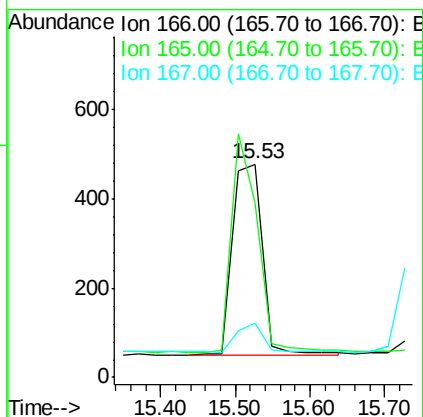
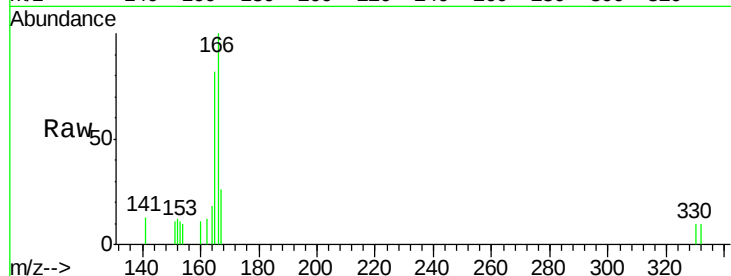
ClientSampleId :

MDL-06-W

Tgt Ion:	166	Resp:	1180
Ion Ratio	Lower	Upper	
166	100		
165	0.0	0.0	0.0
167	12.9	10.6	15.8

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#16

Phenanthrene-d10

Concen: 5.00 ng

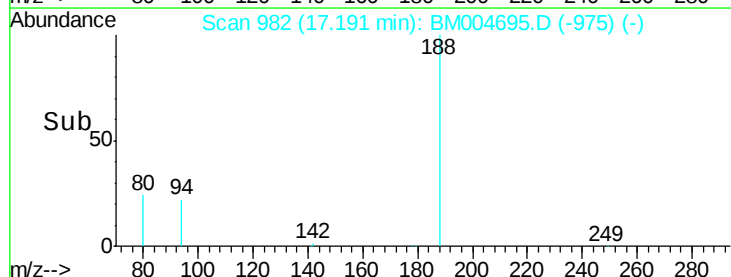
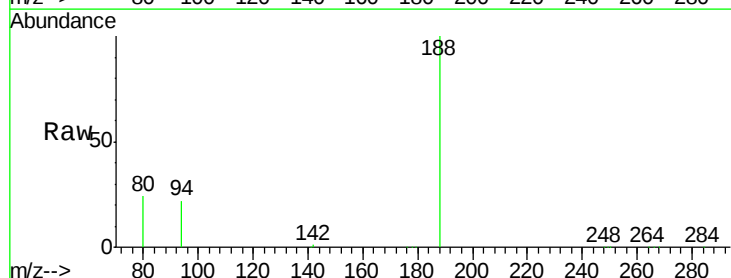
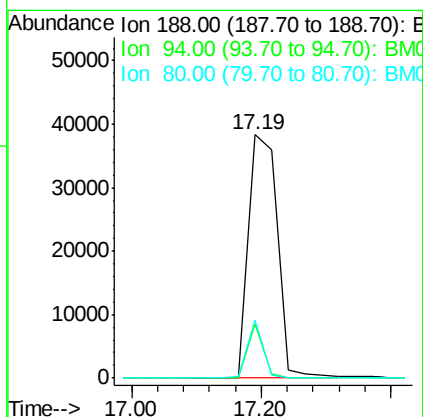
RT: 17.19 min Scan# 982

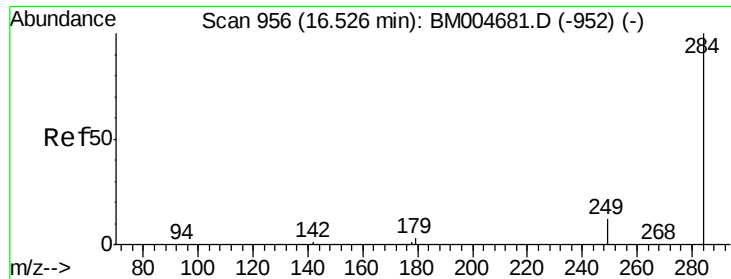
Delta R.T. -0.03 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	188	Resp:	117778
Ion Ratio	Lower	Upper	
188	100		
94	22.2	1.4	2.0#
80	23.9	1.0	1.6#





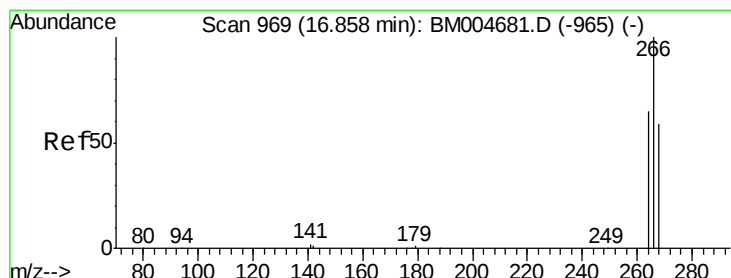
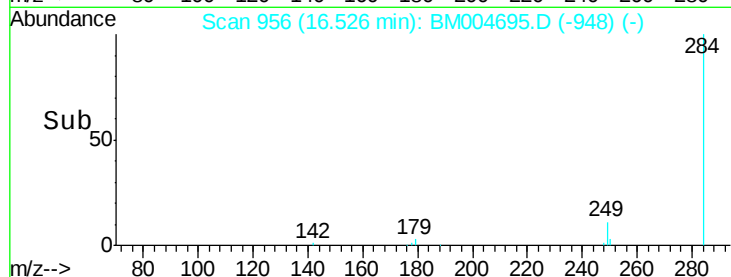
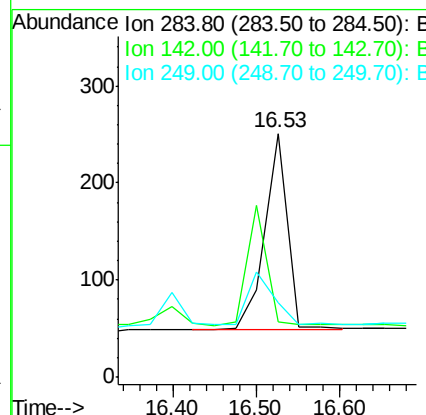
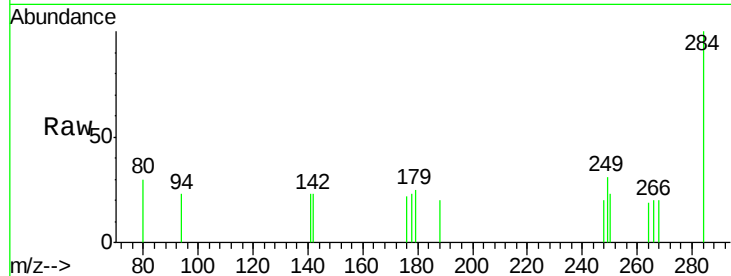
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.53 min Scan# 956
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Instrument :
BNA_M
ClientSampleId :
MDL-06-W

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0

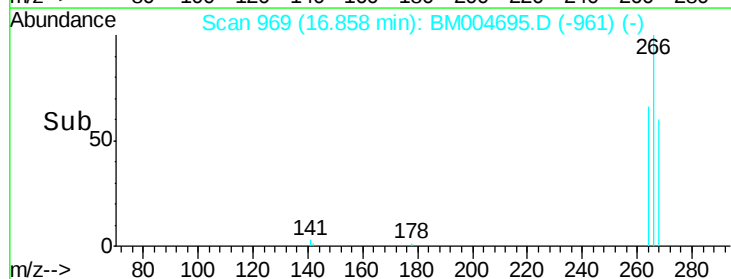
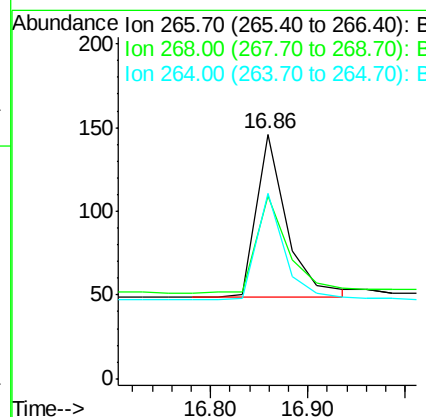
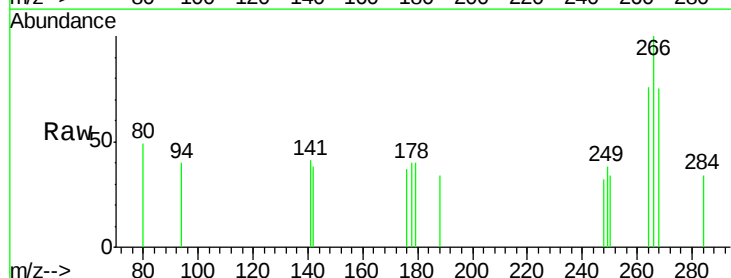
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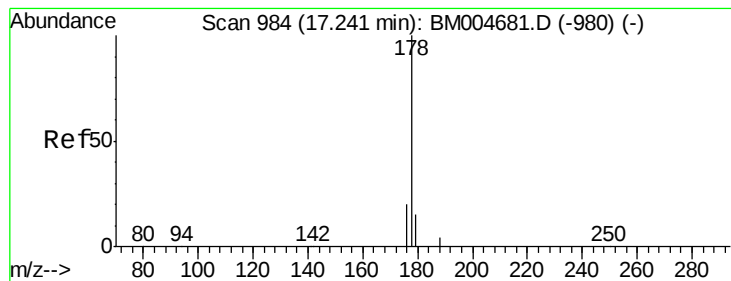
mohammad
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#18
Pentachlorophenol
Concen: 0.17 ng
RT: 16.86 min Scan# 969
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	74.7	49.1	73.7#
264	76.0	52.9	79.3





#19

Phenanthrene

Concen: 0.06 ng

RT: 17.24 min Scan# 984

Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

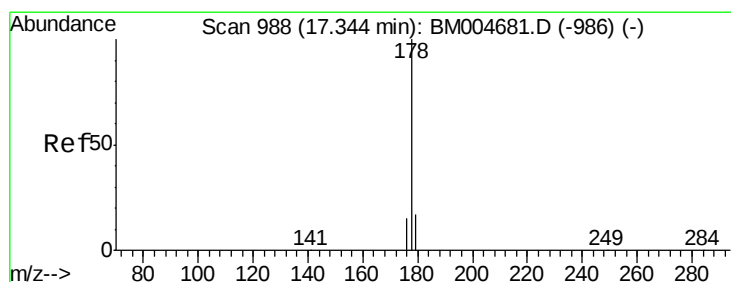
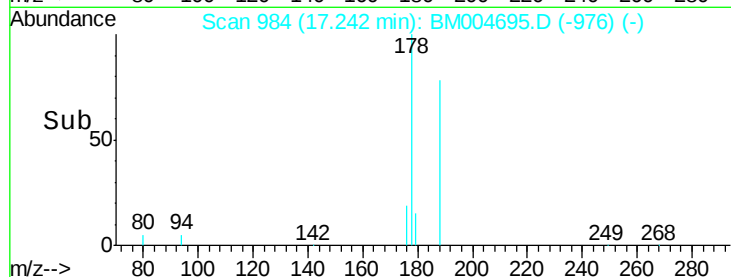
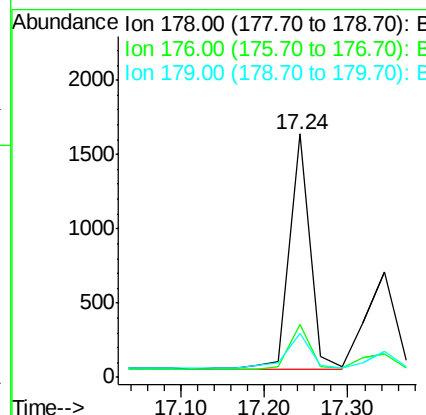
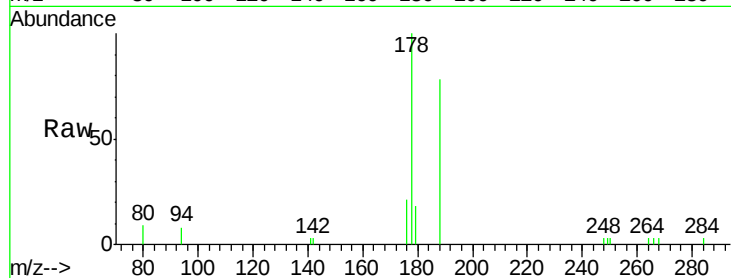
ClientSampleId :

MDL-06-W

Tgt Ion:	178	Resp:	2694
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.5	23.3
179	18.9	12.2	18.4#

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#20

Anthracene

Concen: 0.05 ng

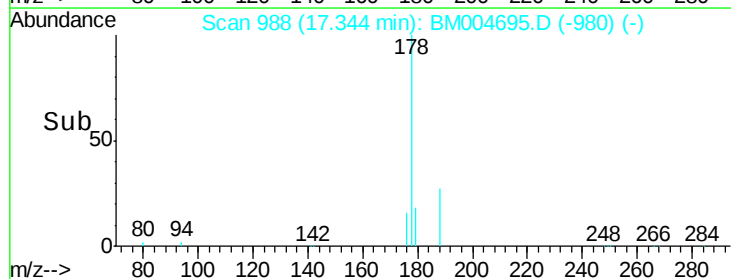
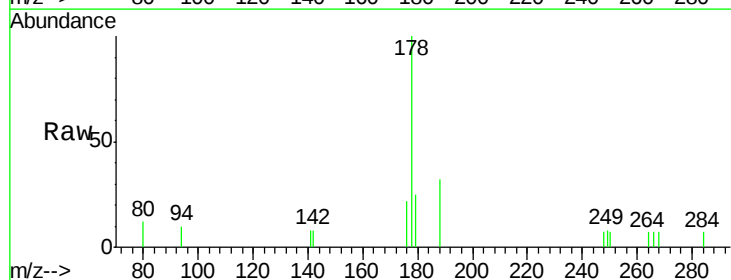
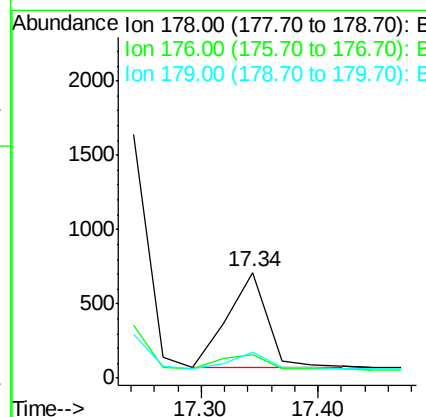
RT: 17.34 min Scan# 988

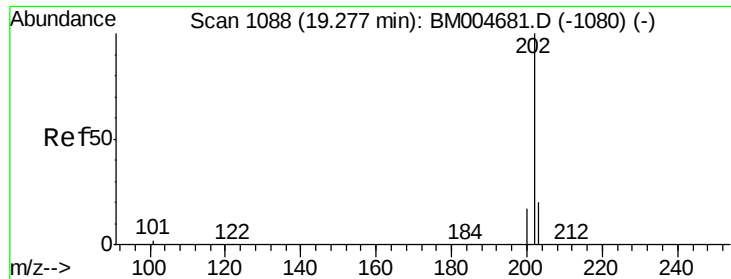
Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	178	Resp:	1527
Ion Ratio	Lower	Upper	
178	100		
176	18.7	14.5	21.7
179	16.0	12.6	18.8





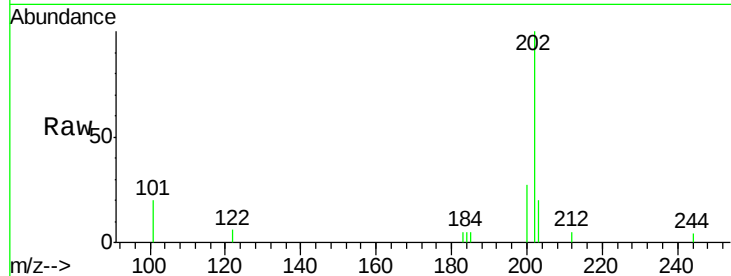
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.26 min Scan# 1087
 Delta R.T. -0.02 min
 Lab File: BM004695.D
 Acq: 18 Mar 2016 23:47

Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-W

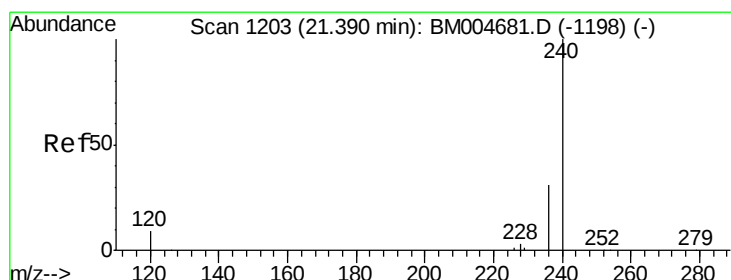
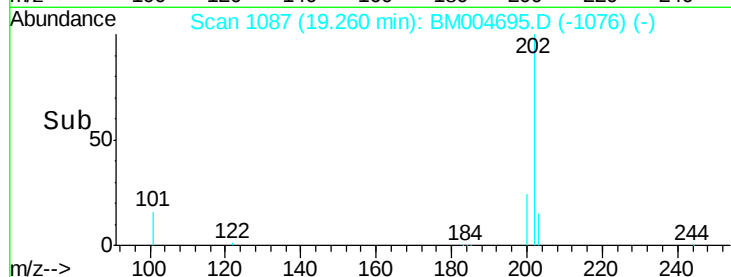
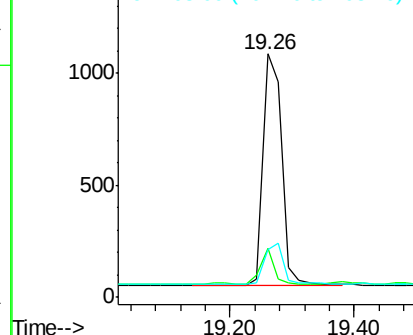
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	8.7	13.1
203	18.8	14.1	21.1

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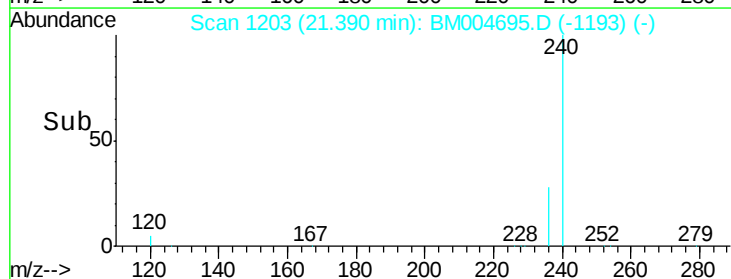
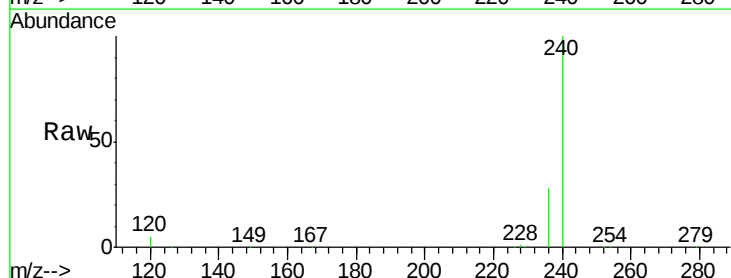
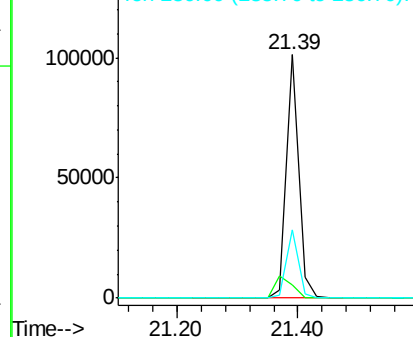
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

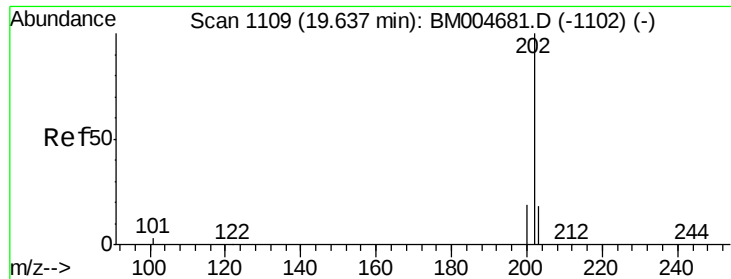


#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.39 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: BM004695.D
 Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.4	7.4	11.2#
236	28.1	24.5	36.7

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





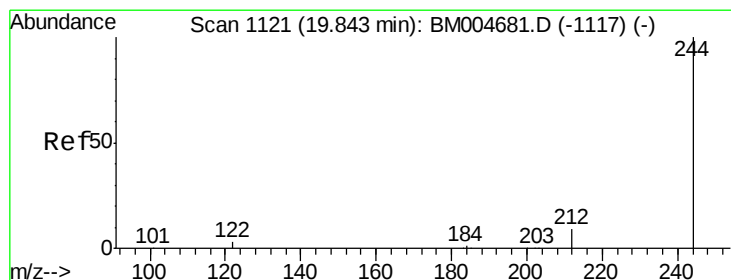
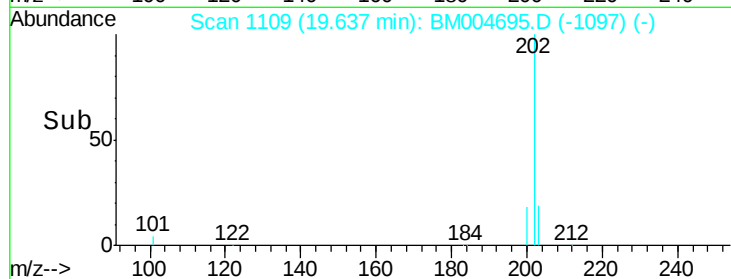
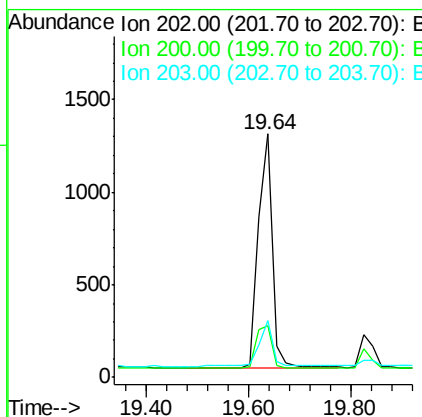
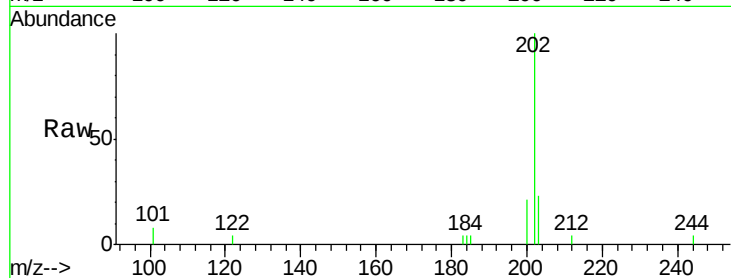
#23
Pyrene
Concen: 0.05 ng
RT: 19.64 min Scan# 1109
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Instrument :
BNA_M
ClientSampleId :
MDL-06-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.8	25.2
203	19.1	13.9	20.9

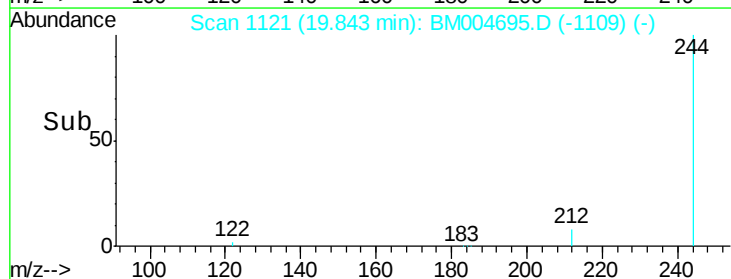
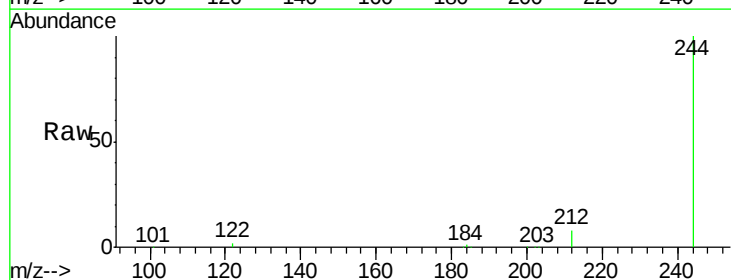
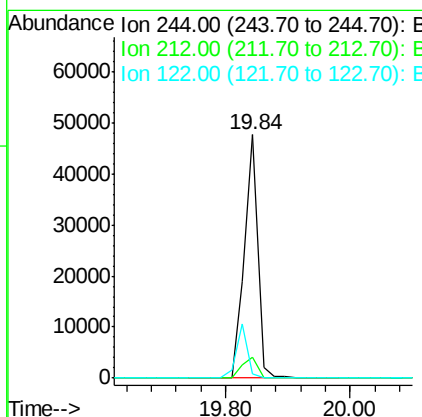
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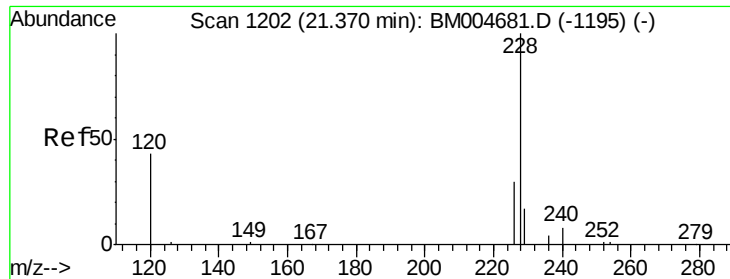
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#24
Terphenyl-d14
Concen: 4.02 ng
RT: 19.84 min Scan# 1121
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.4	7.7	11.5
122	1.8	3.4	5.0





#25

Benzo(a)anthracene

Concen: 0.05 ng m

RT: 21.37 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BM004695.D

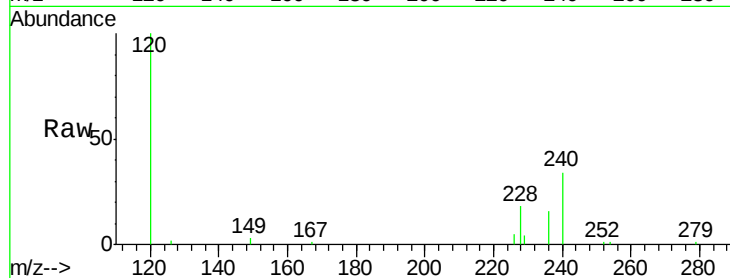
Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

ClientSampleId :

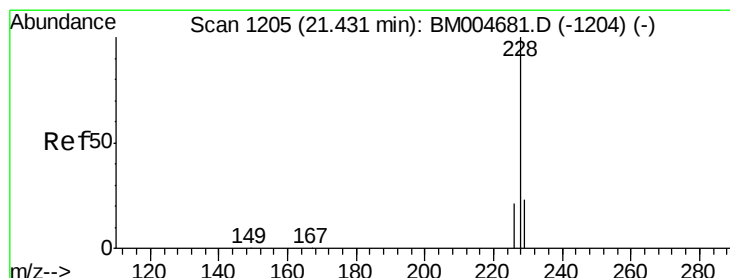
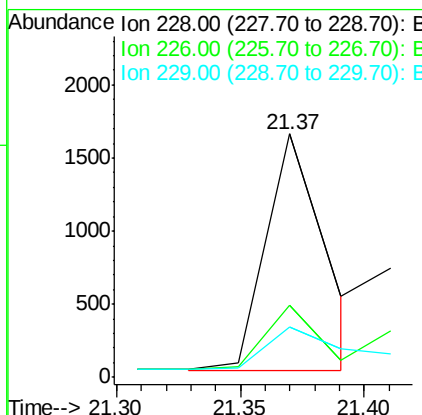
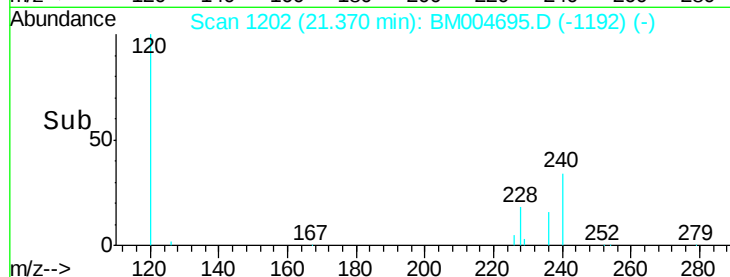
MDL-06-W



Tgt Ion:	228	Resp:	2682
Ion Ratio	Lower	Upper	
228	100		
226	29.7	24.2	36.2
229	20.8	14.2	21.2

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#26

Chrysene

Concen: 0.05 ng m

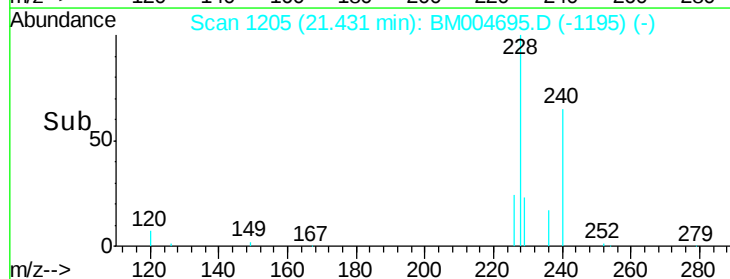
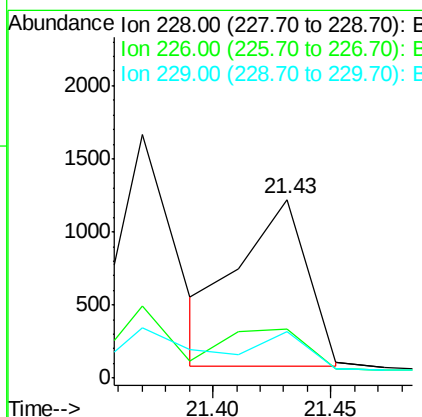
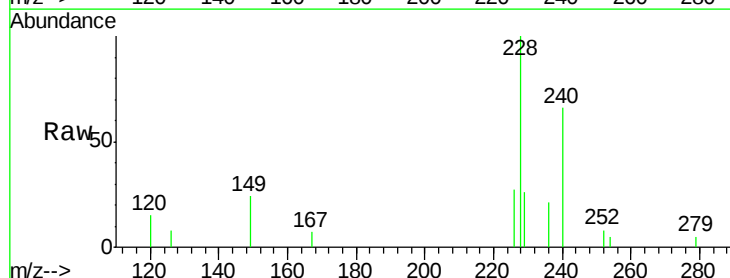
RT: 21.43 min Scan# 1205

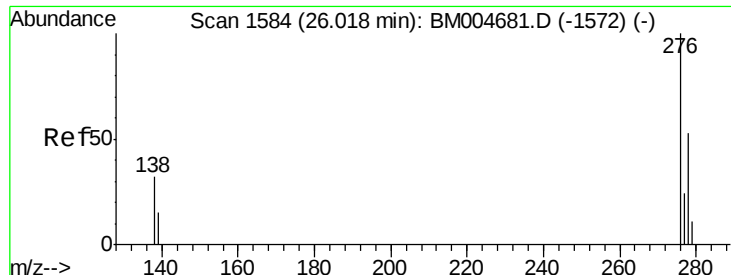
Delta R.T. 0.00 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

Tgt Ion:	228	Resp:	2266
Ion Ratio	Lower	Upper	
228	100		
226	27.5	20.9	31.3
229	26.2	17.4	26.2





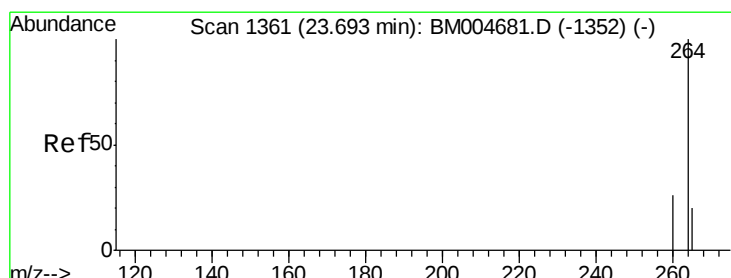
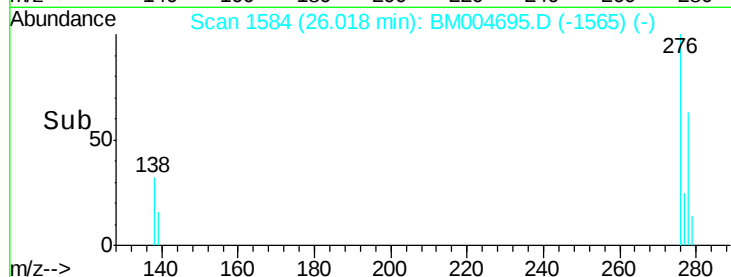
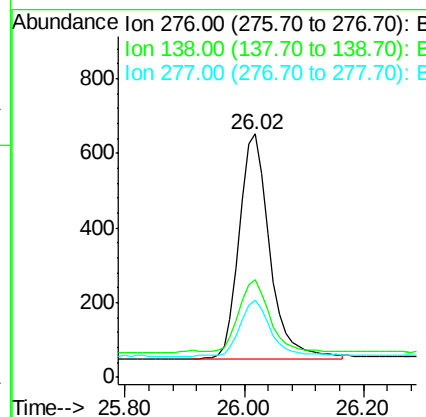
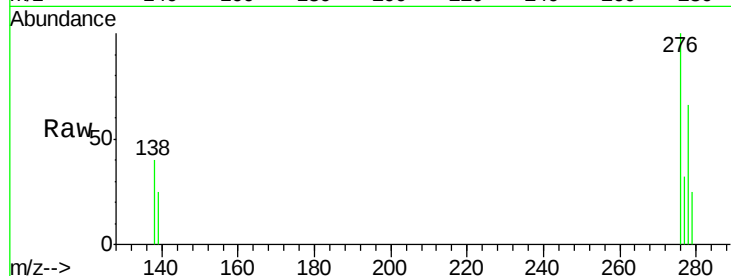
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.05 ng
RT: 26.02 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Instrument :
BNA_M
ClientSampleId :
MDL-06-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.5	25.9	38.9
277	25.5	19.8	29.6

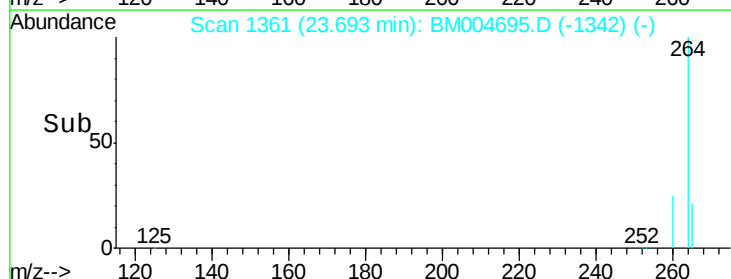
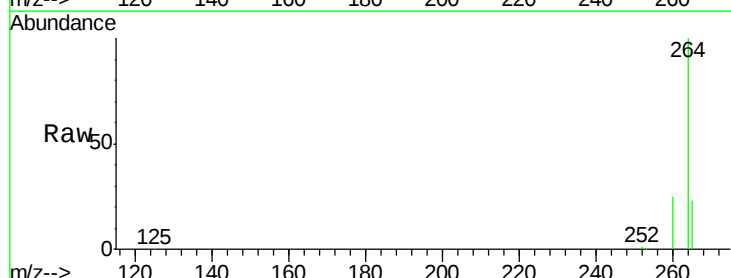
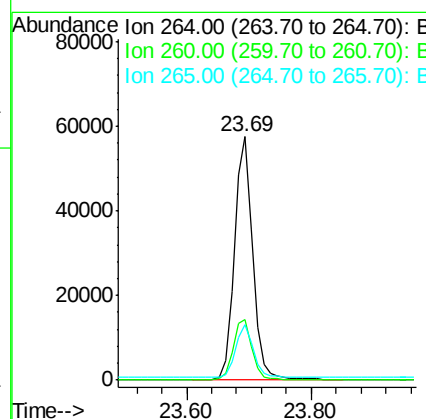
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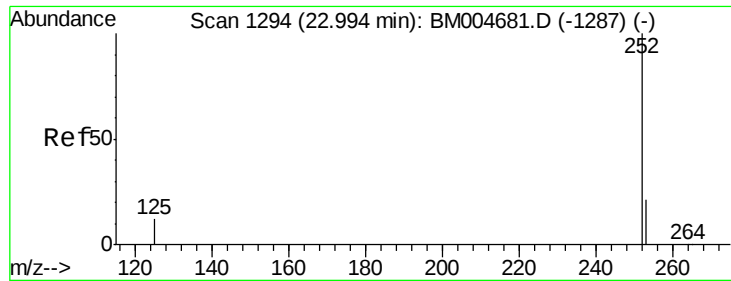
mohammad
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.69 min Scan# 1361
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	21.0	31.4
265	22.6	17.5	26.3





#29

Benzo(b)fluoranthene

Concen: 0.05 ng

RT: 22.99 min Scan# 1294

Delta R.T. 0.00 min

Lab File: BM004695.D

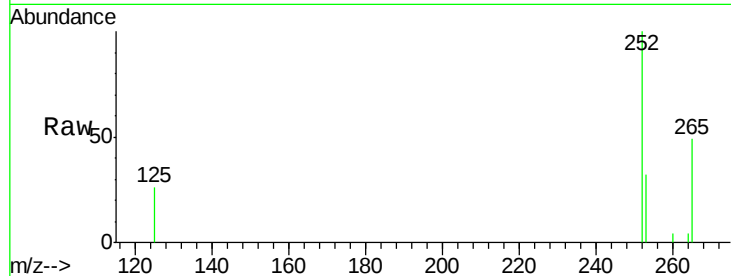
Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

ClientSampleId :

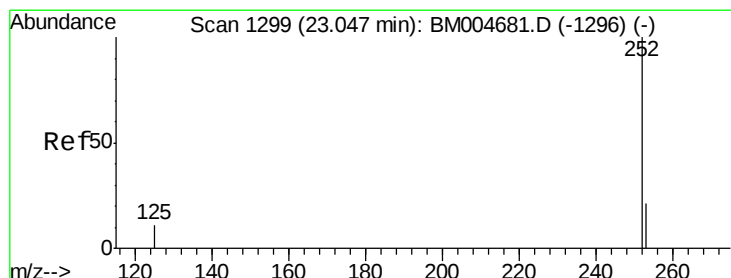
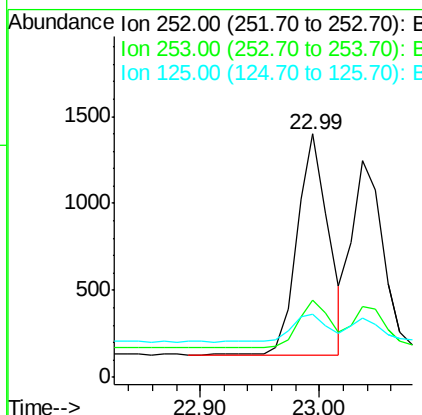
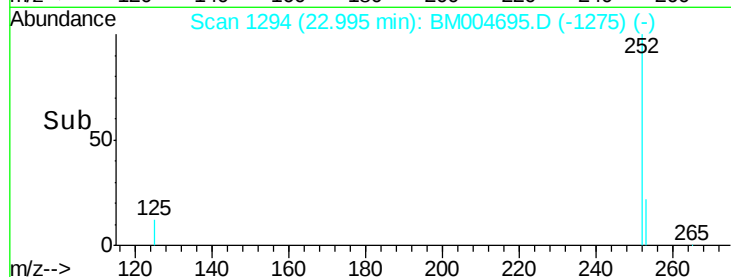
MDL-06-W



Tgt Ion:	252	Resp:	2313
Ion Ratio	Lower	Upper	
252	100		
253	31.9	17.9	26.9#
125	25.9	11.4	17.0#

Manual Integrations
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#30

Benzo(k)fluoranthene

Concen: 0.05 ng

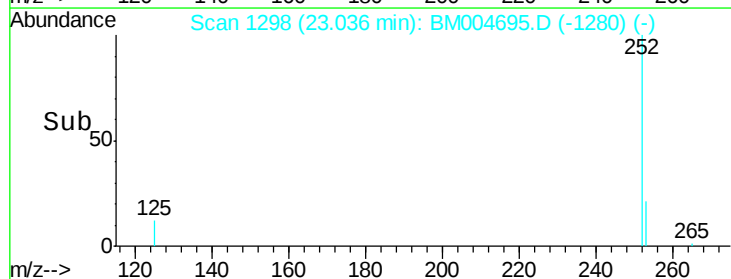
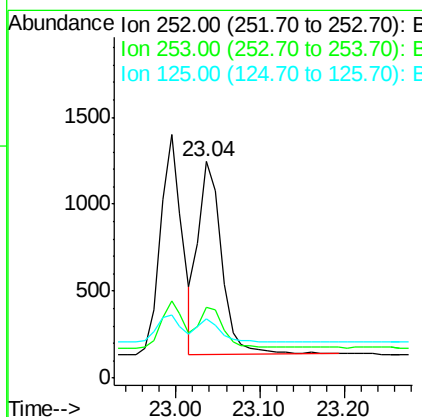
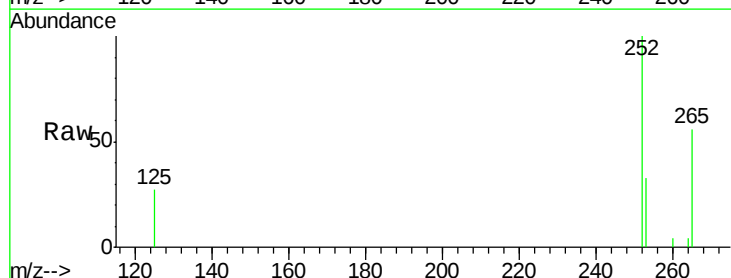
RT: 23.04 min Scan# 1298

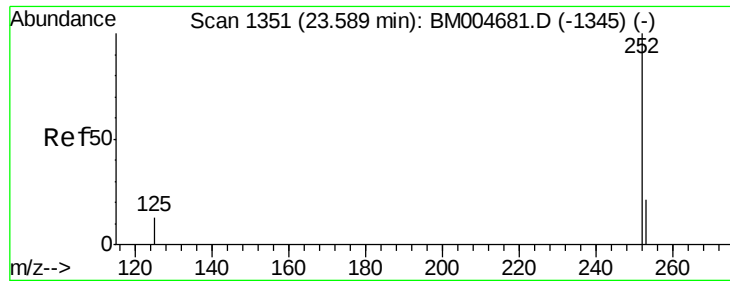
Delta R.T. -0.01 min

Lab File: BM004695.D

Acq: 18 Mar 2016 23:47

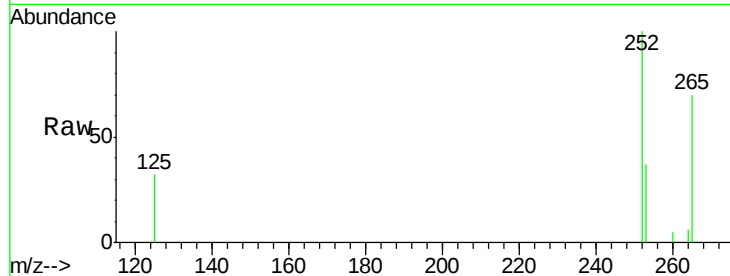
Tgt Ion:	252	Resp:	2132
Ion Ratio	Lower	Upper	
252	100		
253	32.7	19.3	28.9#
125	27.4	10.6	15.8#





#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.59 min Scan# 1351
Delta R.T. 0.00 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

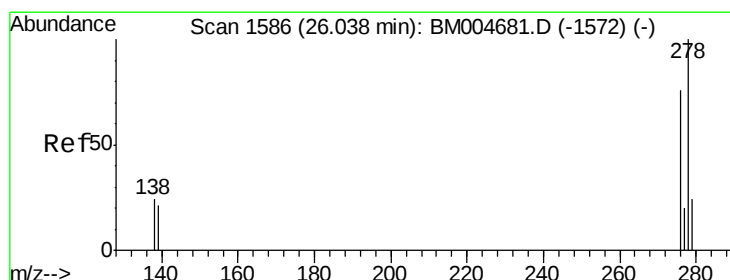
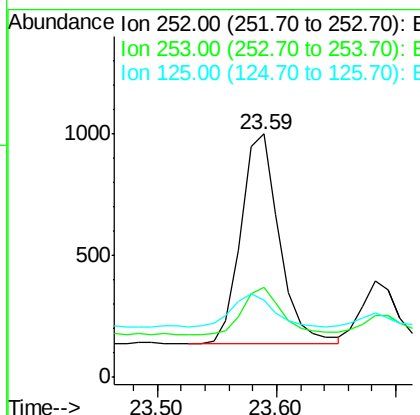
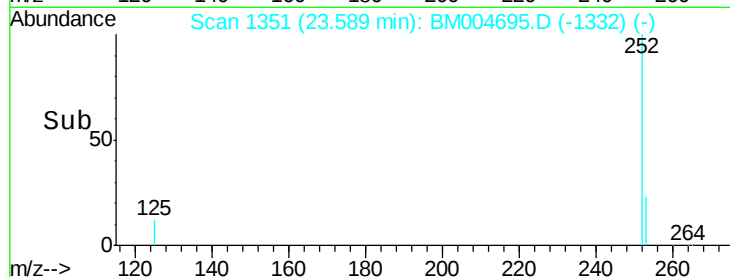
Instrument :
BNA_M
ClientSampleId :
MDL-06-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	37.1	18.6	28.0#
125	31.9	12.3	18.5#

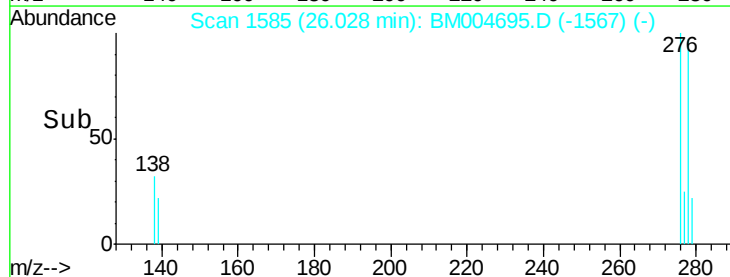
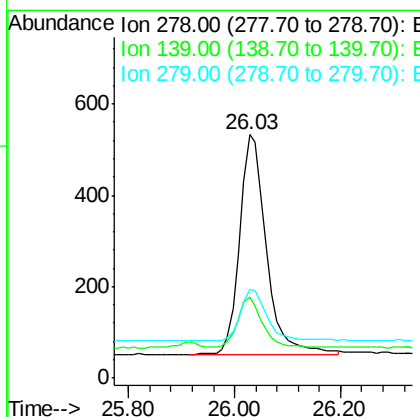
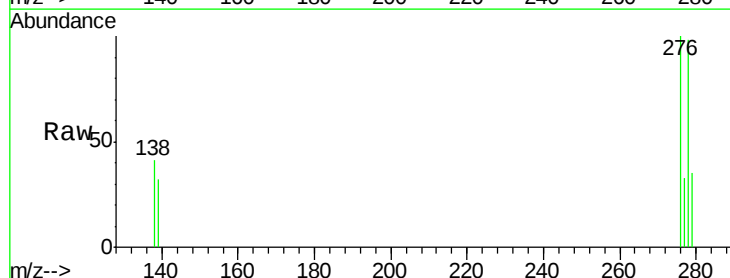
Manual Integrations
APPROVED

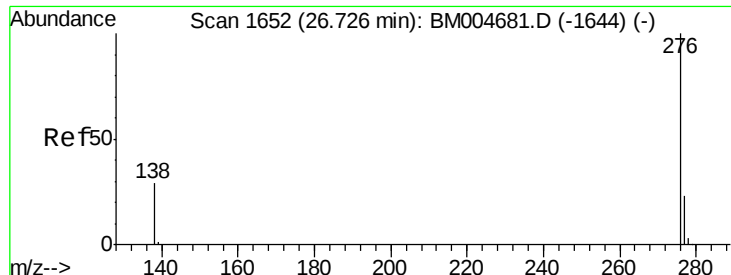
mohammad
3/21/2016 2:46:49 PM



#32
Dibenzo(a,h)anthracene
Concen: 0.05 ng
RT: 26.03 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BM004695.D
Acq: 18 Mar 2016 23:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	33.0	17.6	26.4#
279	36.2	19.9	29.9#





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 26.73 min Scan# 1652

Delta R.T. 0.00 min

Lab File: BM004695.D

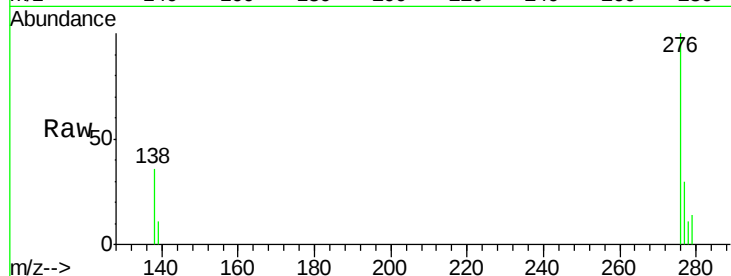
Acq: 18 Mar 2016 23:47

Instrument :

BNA_M

ClientSampleId :

MDL-06-W



Tgt Ion:	276	Resp:	1944
Ion Ratio	Lower	Upper	
276	100		
277	30.4	19.1	28.7#
138	35.8	24.5	36.7

Manual Integrations
APPROVED

mohammad
3/21/2016 2:46:49 PM

