

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
 Data File : BM004696.D
 Acq On : 19 Mar 2016 00:23
 Operator : UM/SJ
 Sample : MDL-07-W
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-07-W

Manual Integrations
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 3/21/2016 2:46:53 PM

Quant Time: Mar 21 01:46:37 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	27763	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	109500	5.00	ng	-0.02
10) Acenaphthene-d10	14.46	164	58674	5.00	ng	0.00
16) Phenanthrene-d10	17.19	188	107240	5.00	ng	-0.03
22) Chrysene-d12	21.39	240	131044	5.00	ng	0.00
28) Perylene-d12	23.69	264	107302	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	41337	6.45	ng	0.00
5) Phenol-d6	6.99	99	49743	6.34	ng	0.00
7) Nitrobenzene-d5	8.99	82	17810	3.38	ng	0.00
11) 2,4,6-Tribromophenol	15.95	330	11636	5.98	ng	0.00
12) 2-Fluorobiphenyl	13.09	172	68989	4.11	ng	0.00
24) Terphenyl-d14	19.84	244	61887	3.74	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	279	0.03	ng	# 76
3) n-Nitrosodimethylamine	3.66	42	143	0.05	ng	# 81
8) Naphthalene	10.66	128	1436	0.05	ng	# 87
9) 2-Methylnaphthalene	12.29	142	886	0.05	ng	# 92
13) Acenaphthylene	14.17	152	1080	0.04	ng	99
14) Acenaphthene	14.53	154	1051	0.05	ng	85
15) Fluorene	15.53	166	928	0.04	ng	# 99
17) Hexachlorobenzene	16.53	284	307	0.05	ng	# 100
18) Pentachlorophenol	16.86	266	166	0.17	ng	# 84
19) Phenanthrene	17.24	178	2174	0.05	ng	# 95
20) Anthracene	17.34	178	1225	0.04	ng	100
21) Fluoranthene	19.26	202	1811	0.04	ng	97
23) Pyrene	19.64	202	1956	0.04	ng	97
25) Benzo(a)anthracene	21.37	228	2172m	0.04	ng	
26) Chrysene	21.43	228	1889m	0.05	ng	
27) Indeno(1,2,3-cd)pyrene	26.02	276	1689	0.04	ng	99
29) Benzo(b)fluoranthene	22.99	252	1882	0.05	ng	# 71
30) Benzo(k)fluoranthene	23.04	252	1714	0.04	ng	# 71
31) Benzo(a)pyrene	23.58	252	1555	0.04	ng	# 59
32) Dibenzo(a,h)anthracene	26.03	278	1330	0.04	ng	# 72
33) Benzo(g,h,i)perylene	26.73	276	1567	0.05	ng	# 85

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

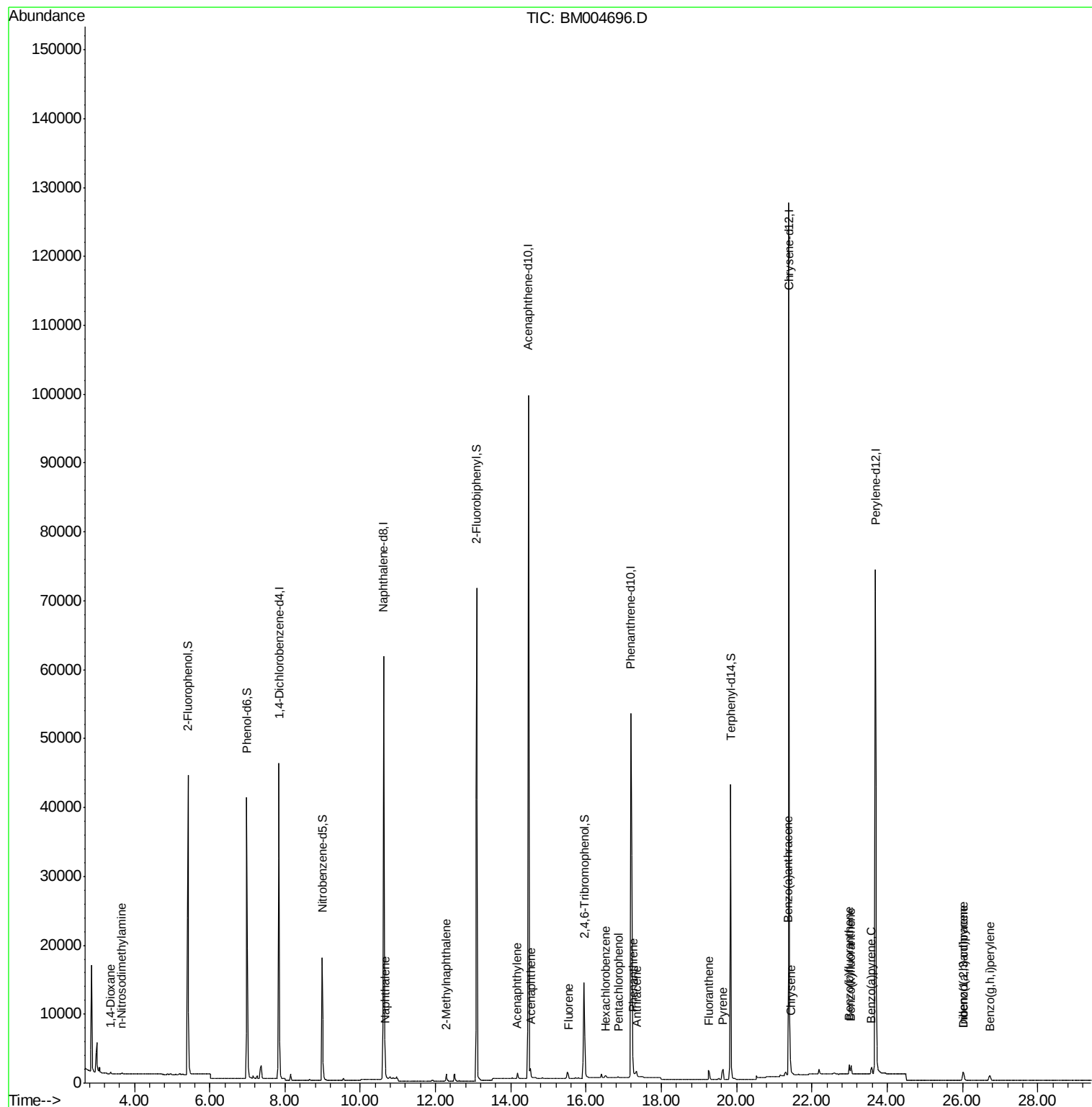
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
Data File : BM004696.D
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ALS Vial : 17 Sample Multiplier: 1

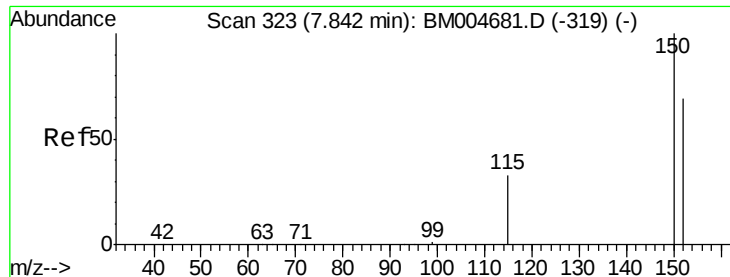
Instrument :
BNA_M
ClientSampleId :
MDL-07-W

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Quant Time: Mar 21 01:46:37 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 323

Delta R.T. 0.00 min

Lab File: BM004696.D

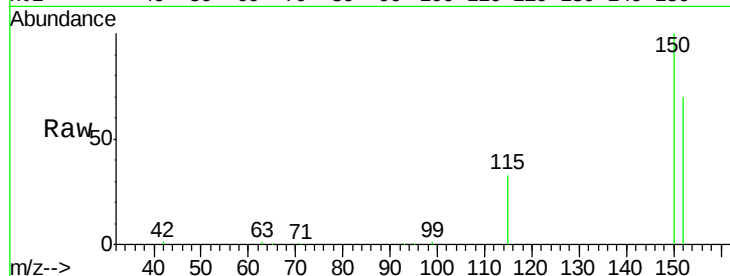
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampleId :

MDL-07-W



Tgt Ion:152 Resp: 27763

Ion Ratio Lower Upper

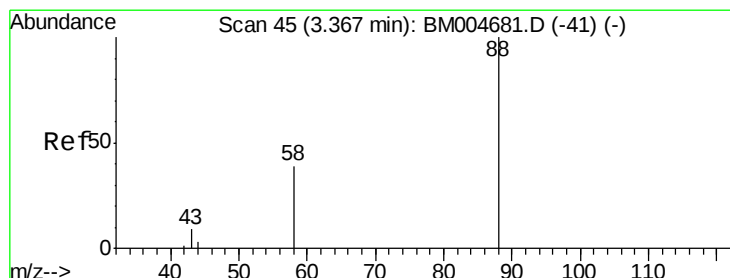
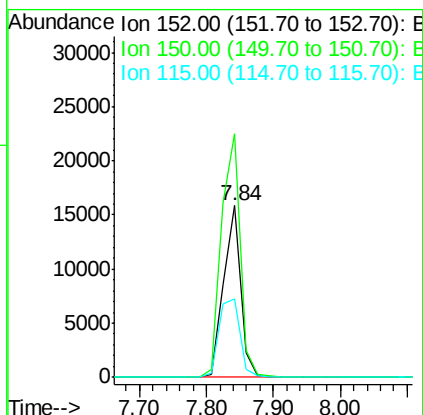
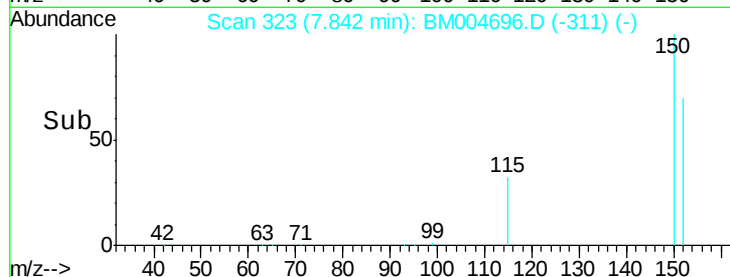
152 100

150 141.9 115.9 173.9

115 46.1 38.4 57.6

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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: BM004696.D

Acq: 19 Mar 2016 00:23

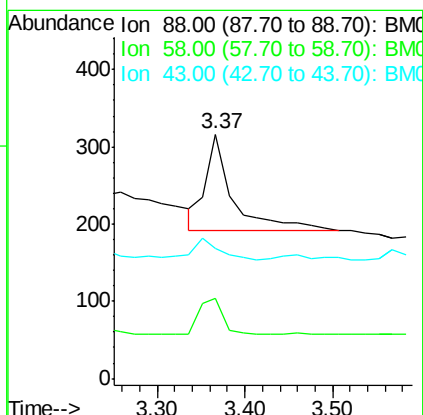
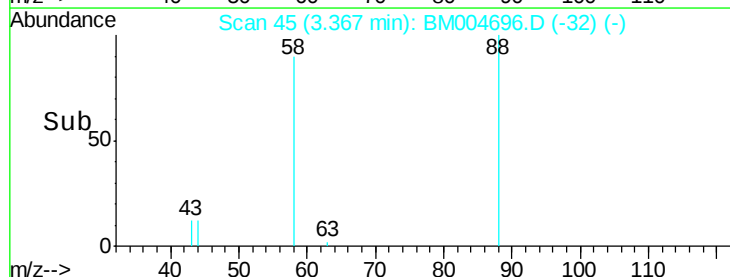
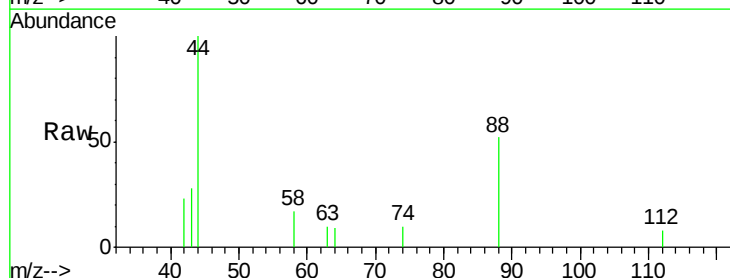
Tgt Ion: 88 Resp: 279

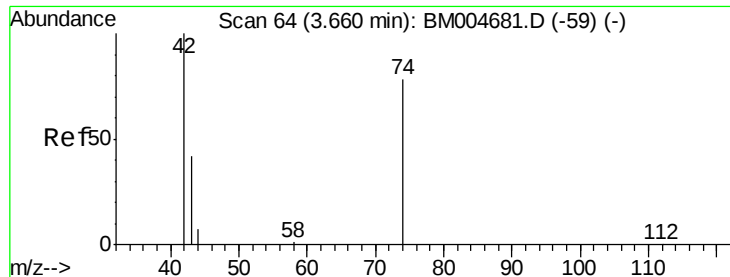
Ion Ratio Lower Upper

88 100

58 32.6 43.9 65.9#

43 20.4 19.9 29.9





#3

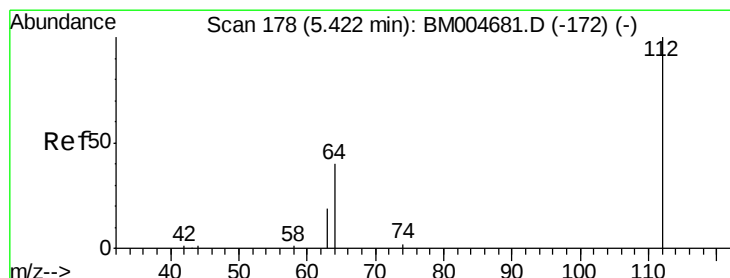
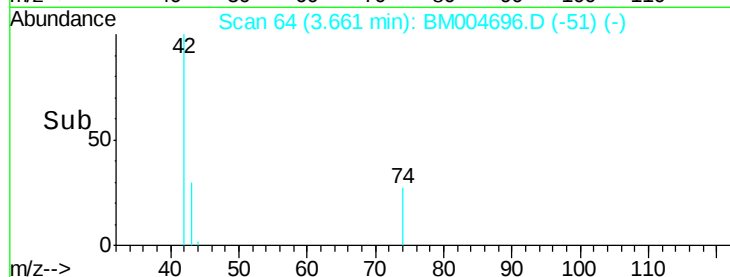
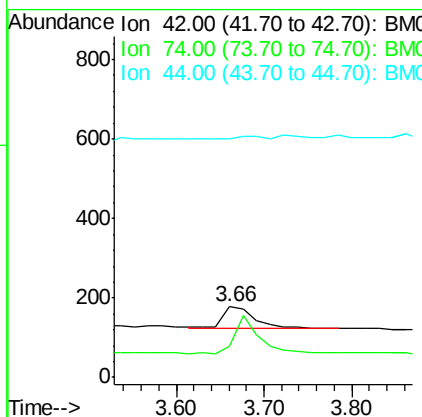
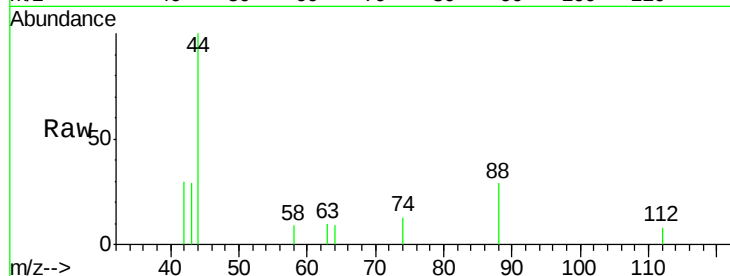
n-Nitrosodimethylamine
Concen: 0.05 ng
RT: 3.66 min Scan# 64
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Instrument :
BNA_M
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
42	100		
74	126.6	120.9	181.3
44	9.1	6.0	9.0#

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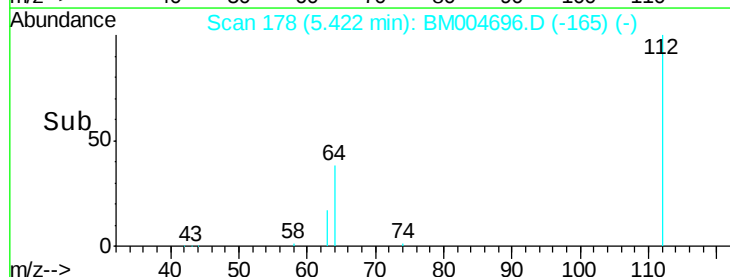
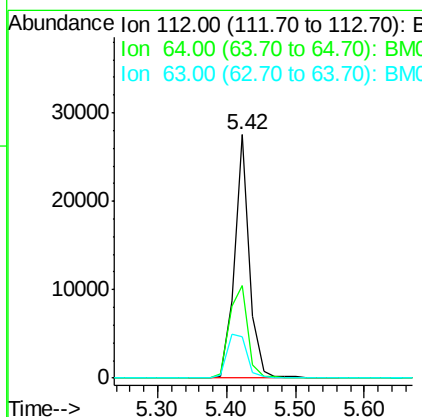
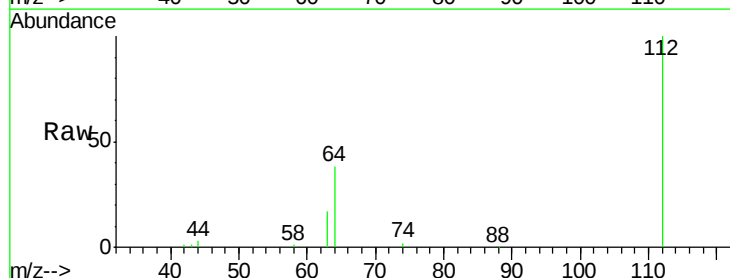
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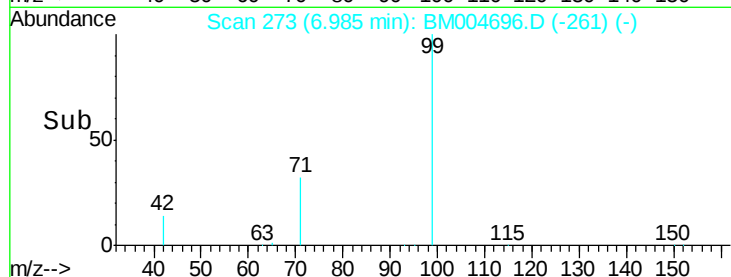
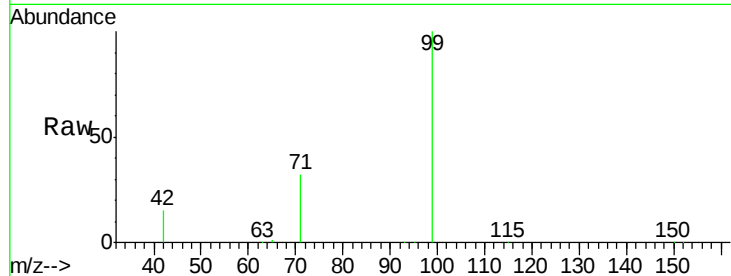
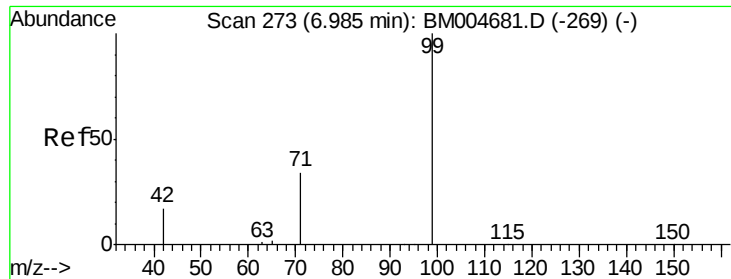


#4

2-Fluorophenol
Concen: 6.45 ng
RT: 5.42 min Scan# 178
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.6	37.0	55.6
63	24.0	19.3	28.9





#5

Phenol-d6

Concen: 6.34 ng

RT: 6.99 min Scan# 273

Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

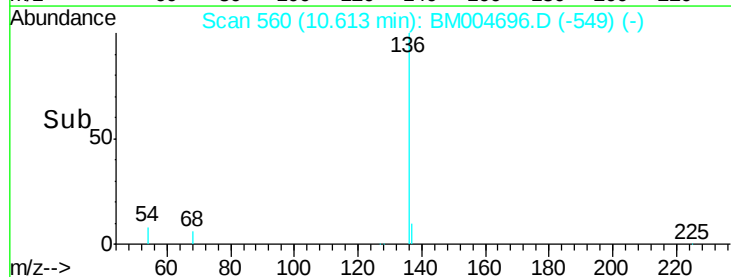
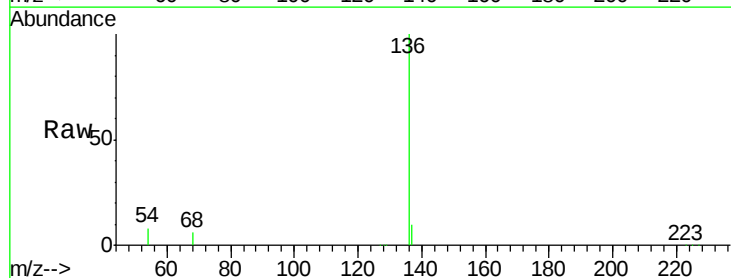
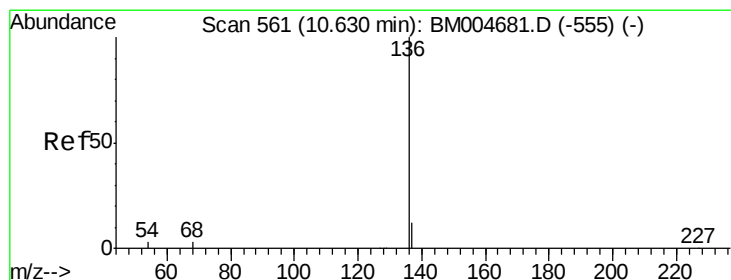
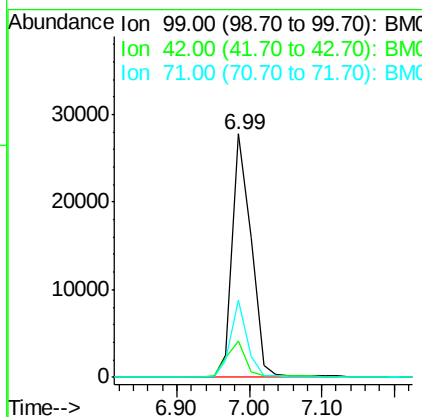
ClientSampleId :

MDL-07-W

Tgt Ion:	99	Resp:	49743
Ion Ratio	Lower	Upper	
99	100		
42	14.2	12.7	19.1
71	27.9	22.9	34.3

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#6

Naphthalene-d8

Concen: 5.00 ng

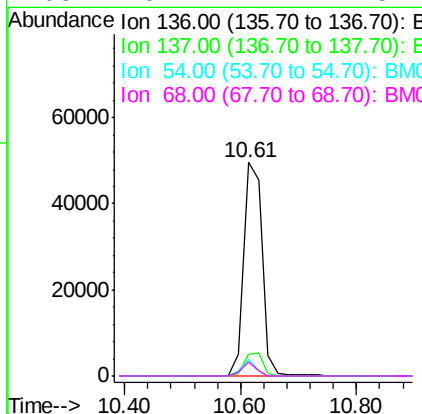
RT: 10.61 min Scan# 560

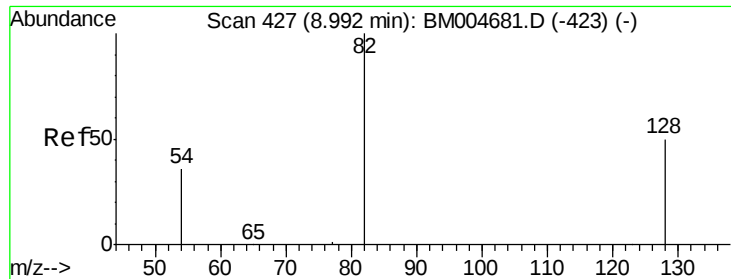
Delta R.T. -0.02 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion:	136	Resp:	109500
Ion Ratio	Lower	Upper	
136	100		
137	10.1	9.4	14.2
54	7.7	2.2	3.4#
68	6.4	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.38 ng

RT: 8.99 min Scan# 427

Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

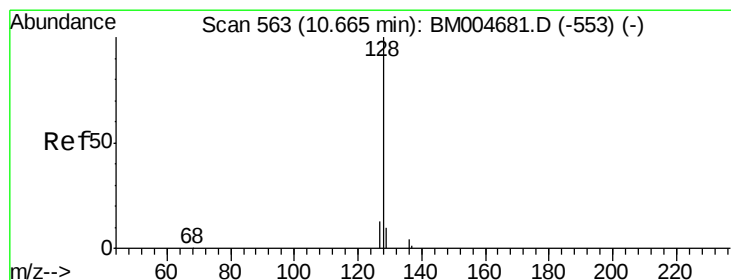
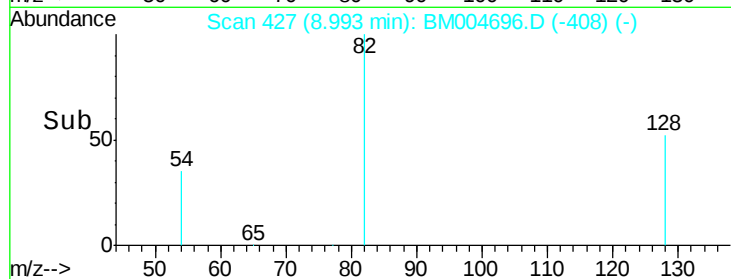
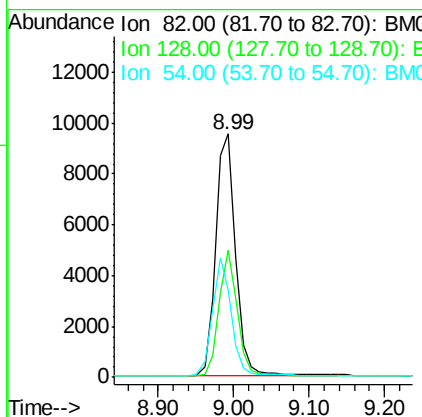
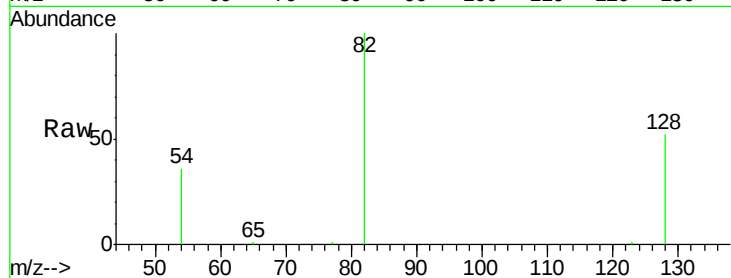
ClientSampleId :

MDL-07-W

Tgt Ion:	82	Resp:	17810
Ion Ratio	Lower	Upper	
82	100		
128	52.3	41.8	62.8
54	35.8	32.9	49.3

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#8

Naphthalene

Concen: 0.05 ng

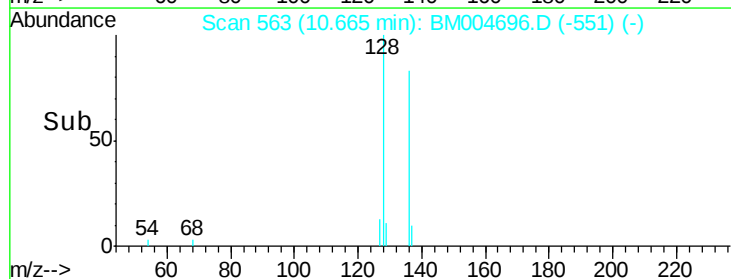
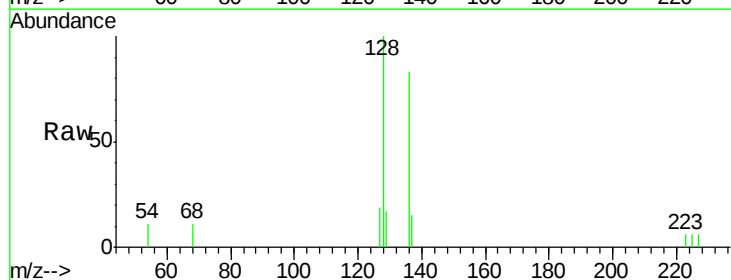
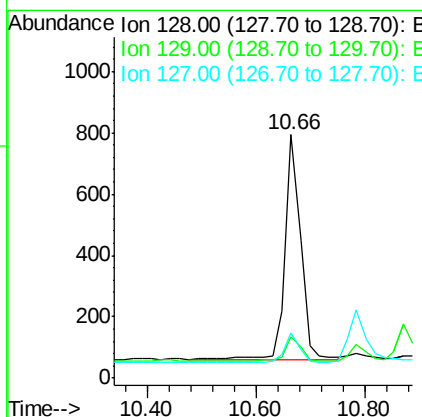
RT: 10.66 min Scan# 563

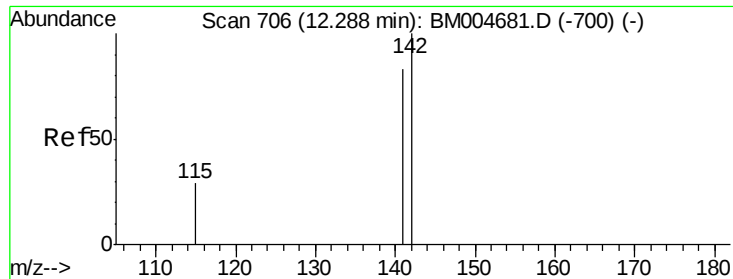
Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion:	128	Resp:	1436
Ion Ratio	Lower	Upper	
128	100		
129	16.9	8.9	13.3#
127	18.6	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: BM004696.D

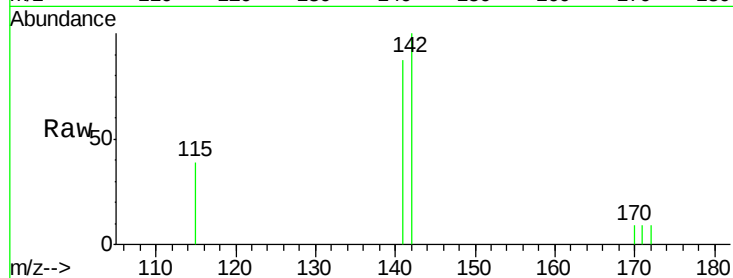
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Instrument :

BNA_M

ClientSampleId :

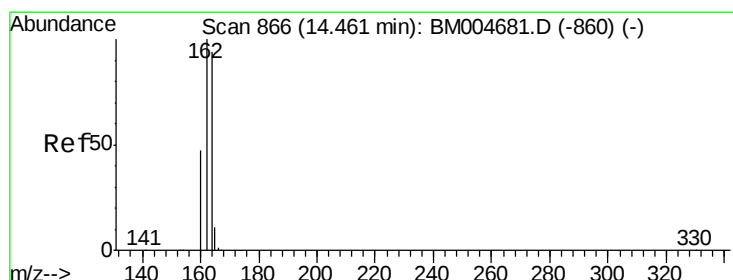
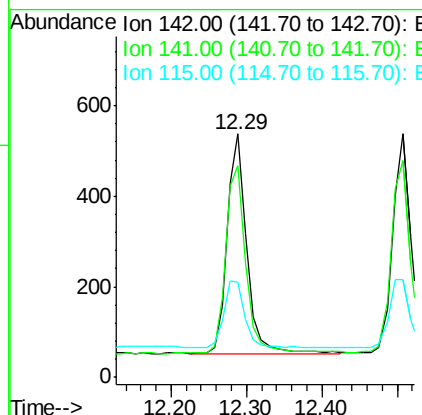
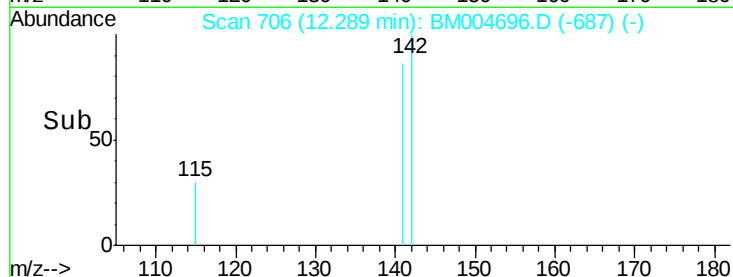
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Tgt Ion:	142	Resp:	886
Ion Ratio	Lower	Upper	
142	100		
141	86.8	66.2	99.2
115	39.2	23.8	35.8

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#10

Acenaphthene-d10

Concen: 5.00 ng

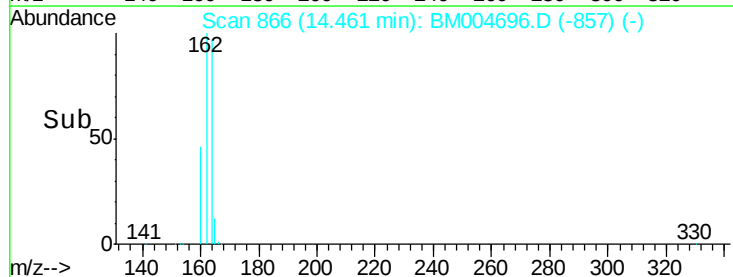
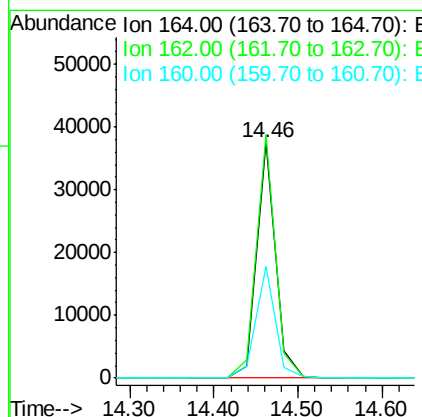
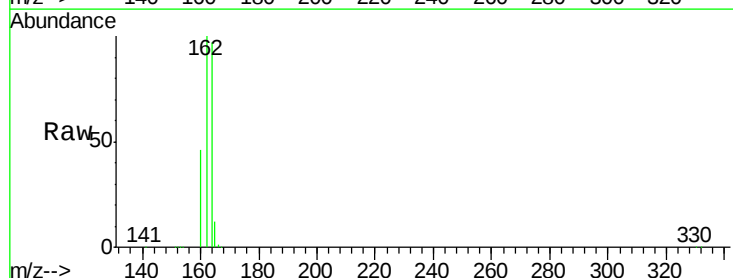
RT: 14.46 min Scan# 866

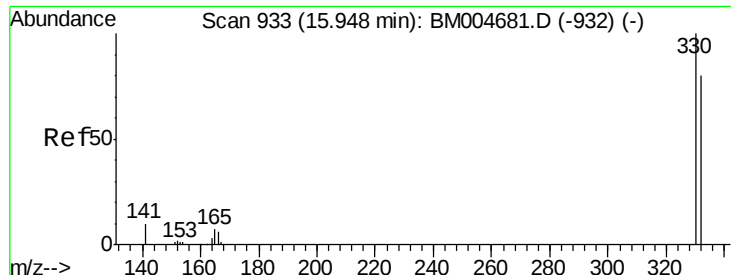
Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

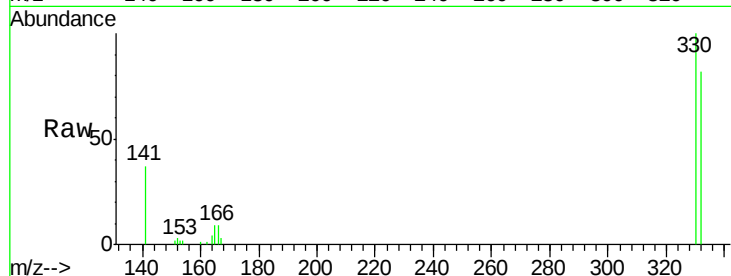
Tgt Ion:	164	Resp:	58674
Ion Ratio	Lower	Upper	
164	100		
162	103.3	85.4	128.0
160	47.6	40.2	60.2





#11
 2,4,6-Tribromophenol
 Concen: 5.98 ng
 RT: 15.95 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: BM004696.D
 Acq: 19 Mar 2016 00:23

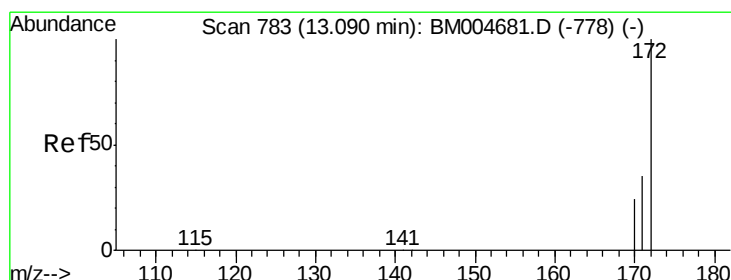
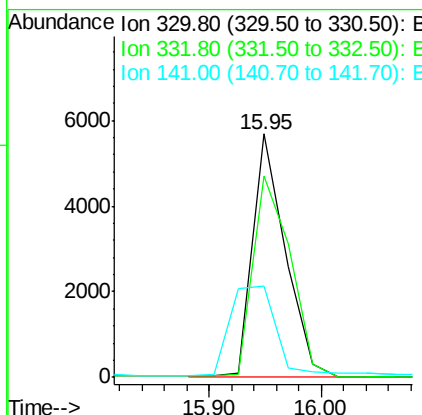
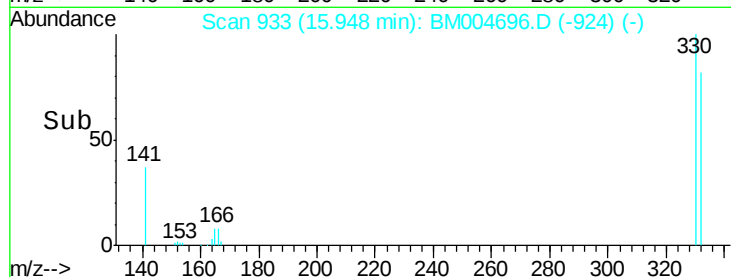
Instrument :
 BNA_M
 ClientSampleId :
 MDL-07-W



Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.3	93.9	140.9
141	51.5	42.2	63.2

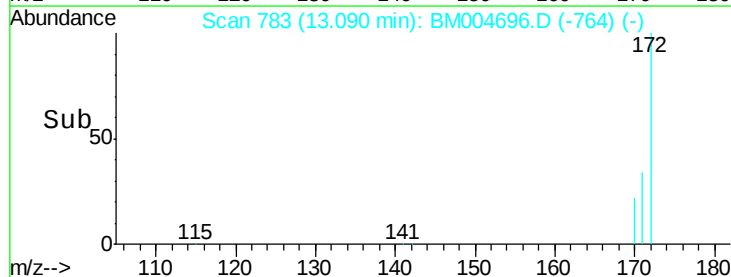
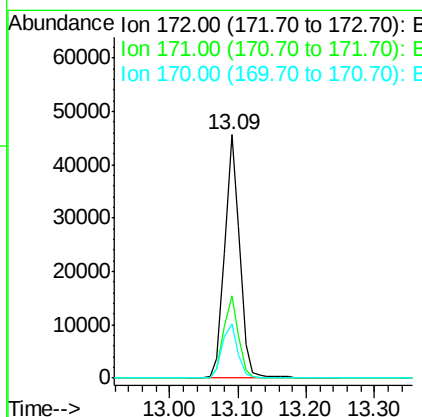
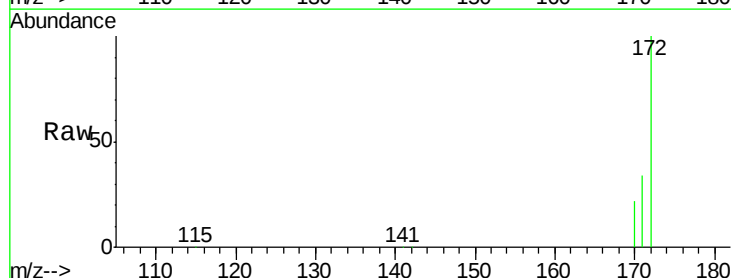
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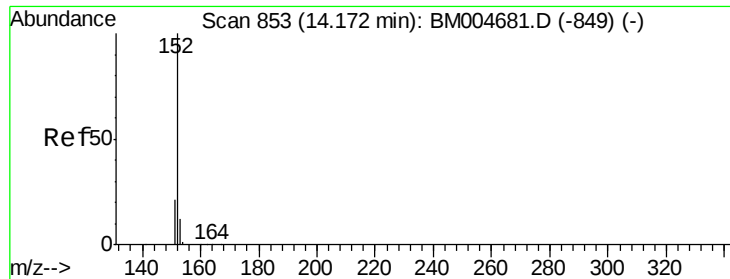
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#12
 2-Fluorobiphenyl
 Concen: 4.11 ng
 RT: 13.09 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BM004696.D
 Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.2	42.2
170	22.4	19.4	29.2





#13

Acenaphthylene

Concen: 0.04 ng

RT: 14.17 min Scan# 853

Delta R.T. 0.00 min

Lab File: BM004696.D

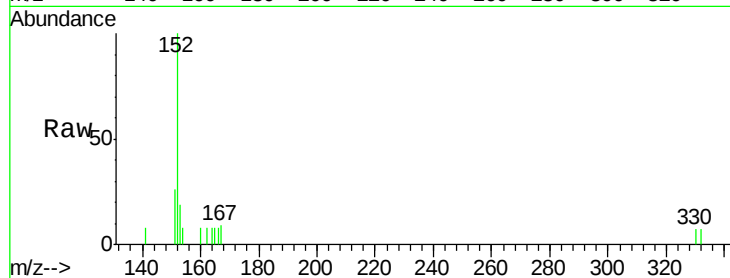
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampleId :

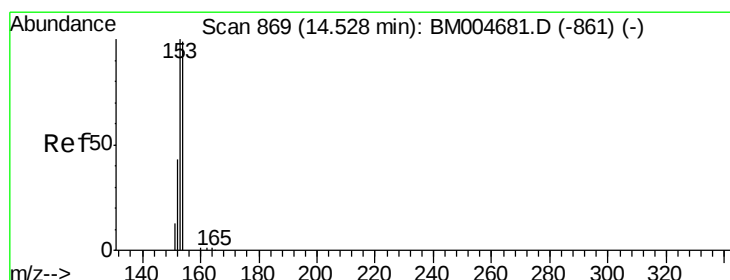
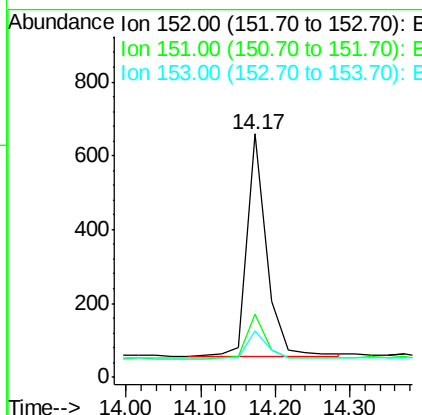
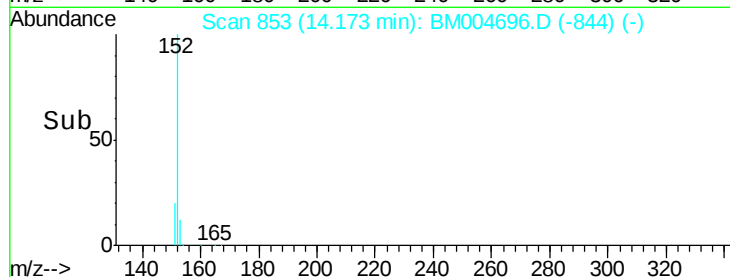
MDL-07-W



Tgt Ion:	152	Resp:	1080
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.6
153	13.0	10.2	15.2

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#14

Acenaphthene

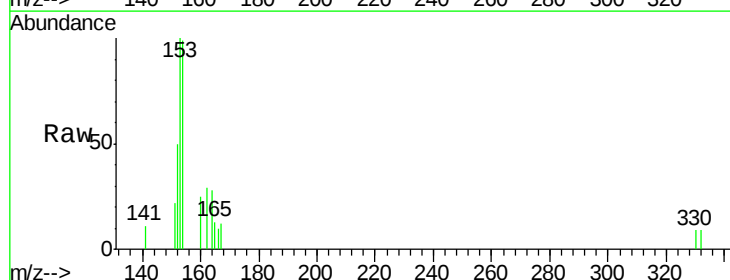
Concen: 0.05 ng

RT: 14.53 min Scan# 869

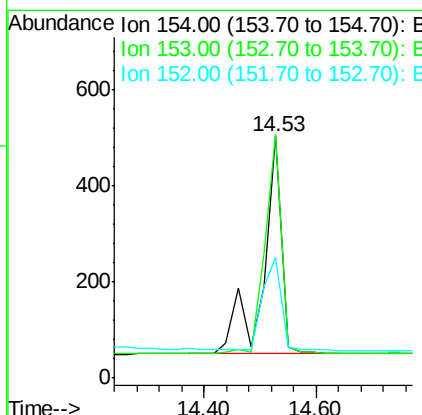
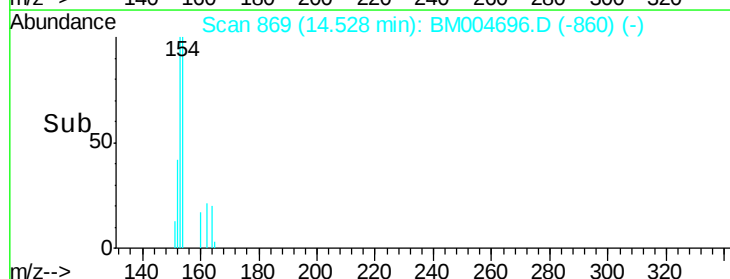
Delta R.T. 0.00 min

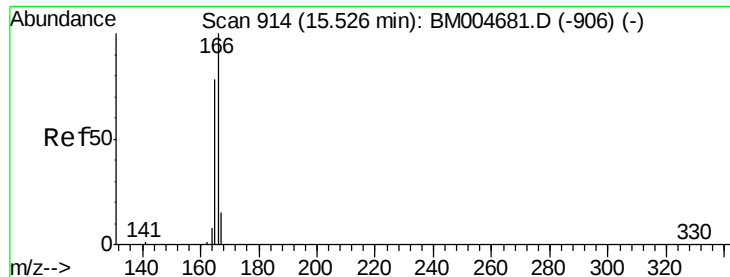
Lab File: BM004696.D

Acq: 19 Mar 2016 00:23



Tgt Ion:	154	Resp:	1051
Ion Ratio	Lower	Upper	
154	100		
153	86.7	83.8	125.6
152	42.7	40.3	60.5





#15

Fluorene

Concen: 0.04 ng

RT: 15.53 min Scan# 914

Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

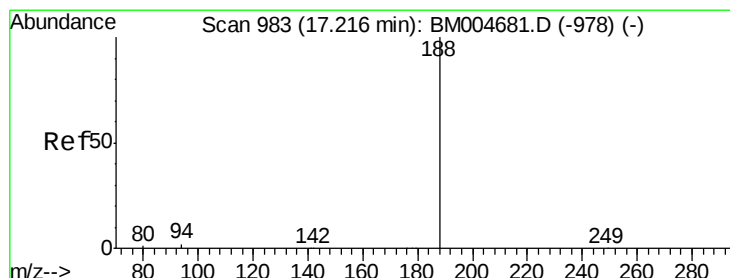
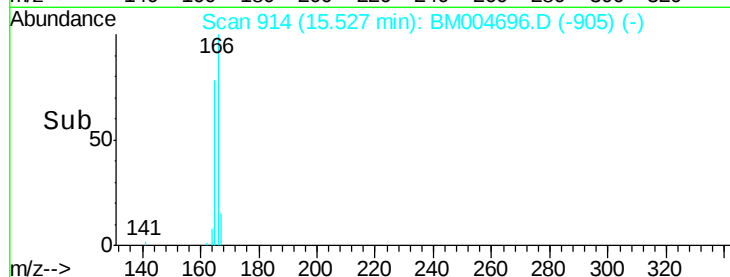
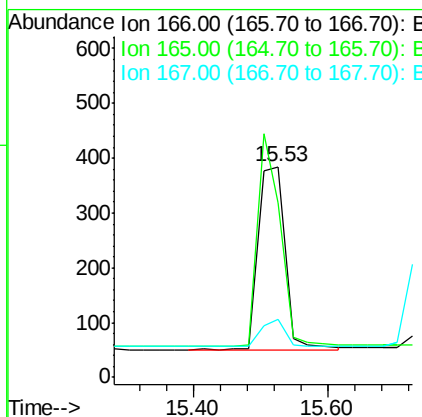
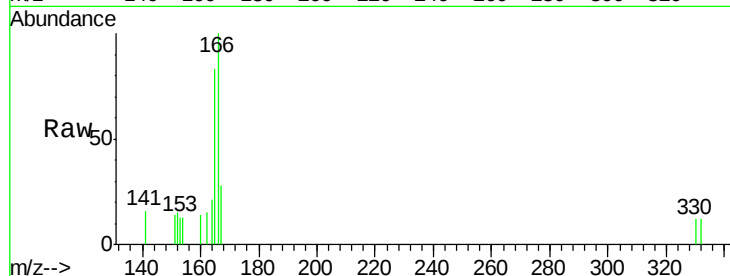
ClientSampleId :

MDL-07-W

Tgt Ion:	166	Resp:	928
Ion Ratio	Lower	Upper	
166	100		
165	0.0	0.0	0.0
167	12.8	10.6	15.8

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#16

Phenanthrene-d10

Concen: 5.00 ng

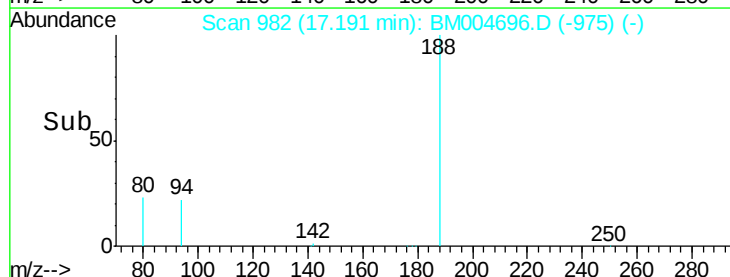
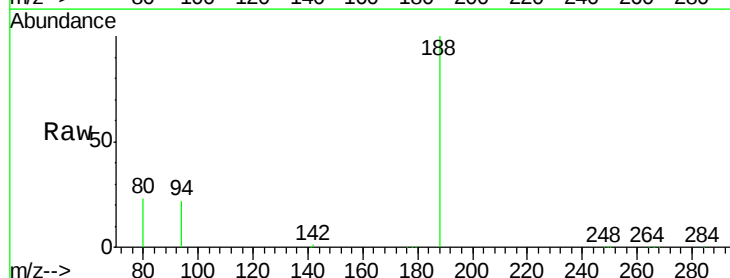
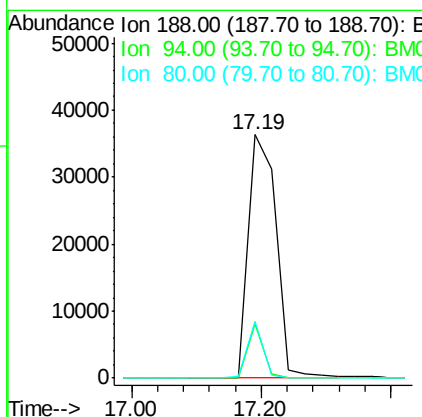
RT: 17.19 min Scan# 982

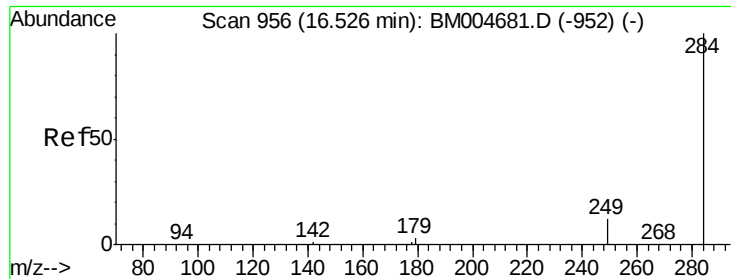
Delta R.T. -0.03 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion:	188	Resp:	107240
Ion Ratio	Lower	Upper	
188	100		
94	22.0	1.4	2.0#
80	23.2	1.0	1.6#





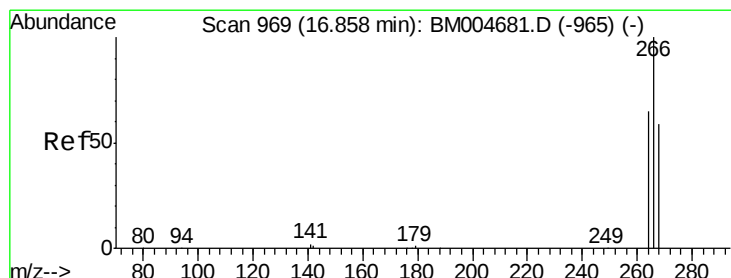
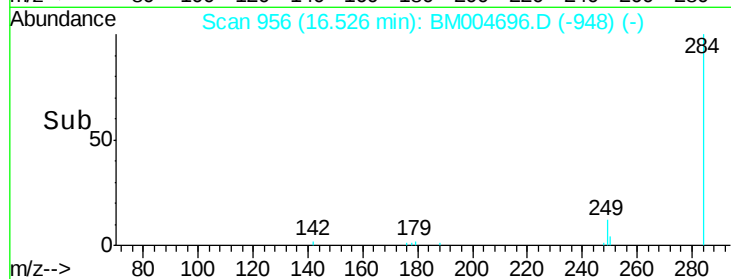
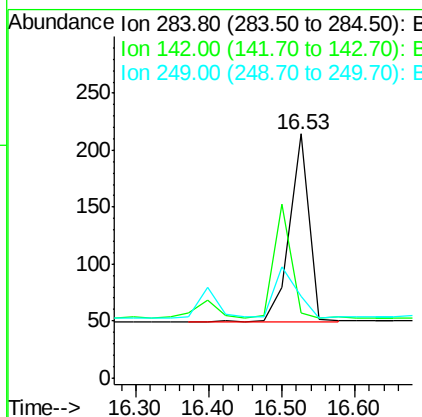
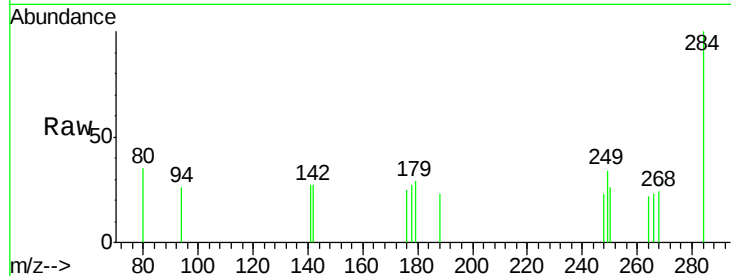
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.53 min Scan# 956
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Instrument :
BNA_M
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	307		
142	0.0	0.0	0.0	0.0
249	0.0	0.0	0.0	0.0

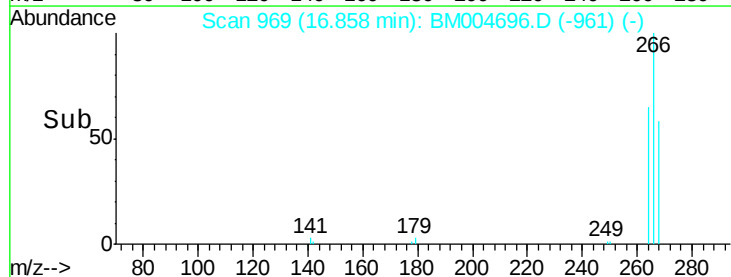
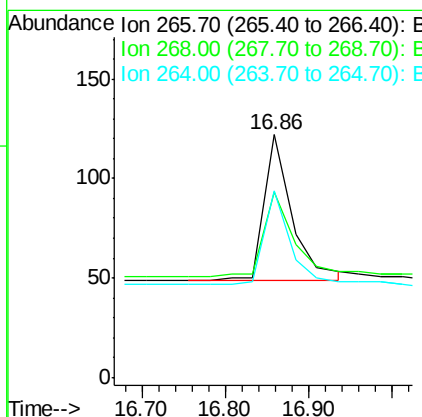
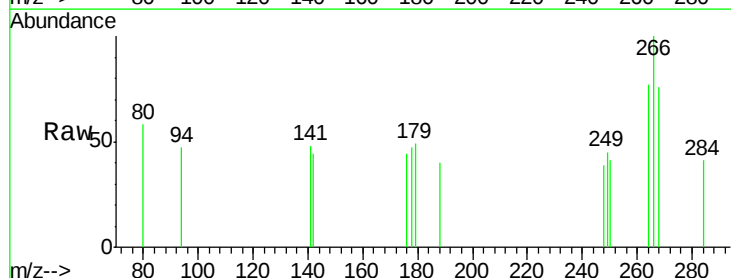
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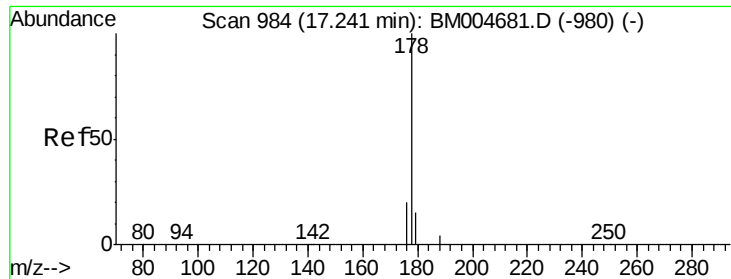
mohammad
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#18
Pentachlorophenol
Concen: 0.17 ng
RT: 16.86 min Scan# 969
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	166		
268	76.2	49.1	73.7#	
264	77.0	52.9	79.3	





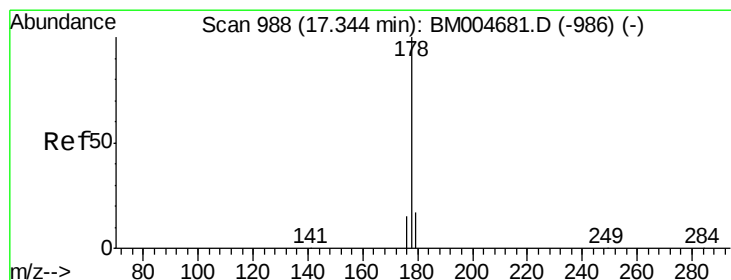
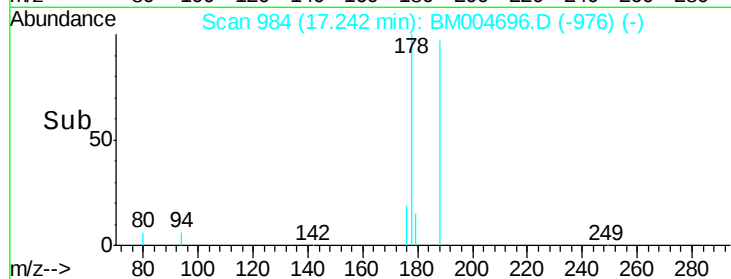
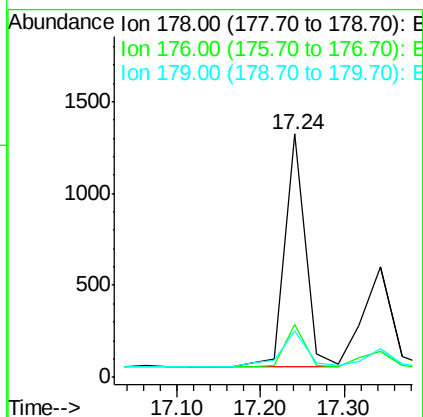
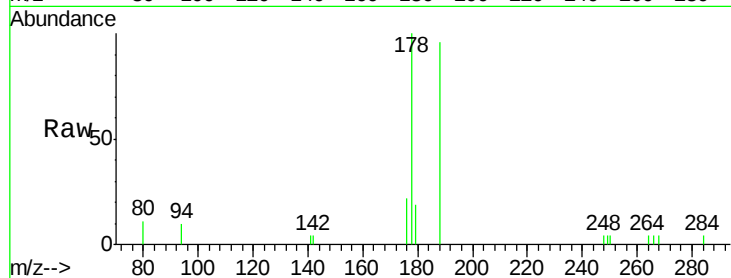
#19
Phenanthrene
Concen: 0.05 ng
RT: 17.24 min Scan# 984
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Instrument :
BNA_M
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.5	23.3
179	19.1	12.2	18.4

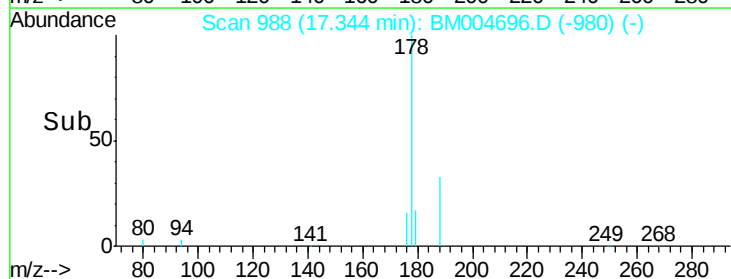
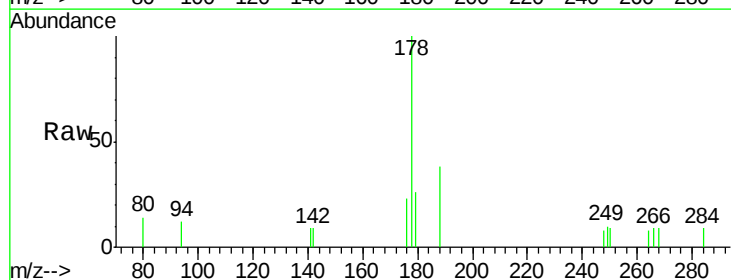
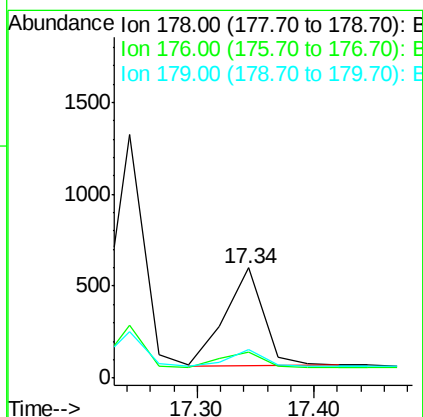
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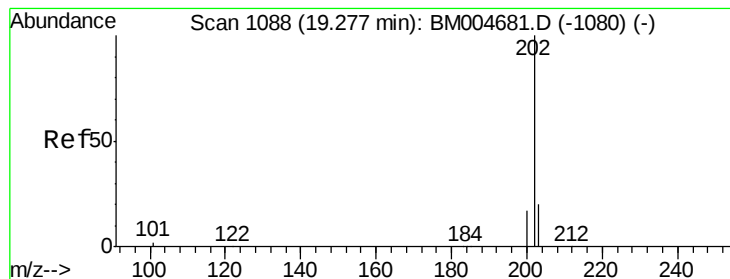
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#20
Anthracene
Concen: 0.04 ng
RT: 17.34 min Scan# 988
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.5	21.7
179	15.5	12.6	18.8





#21

Fluoranthene

Concen: 0.04 ng

RT: 19.26 min Scan# 1087

Delta R.T. -0.02 min

Lab File: BM004696.D

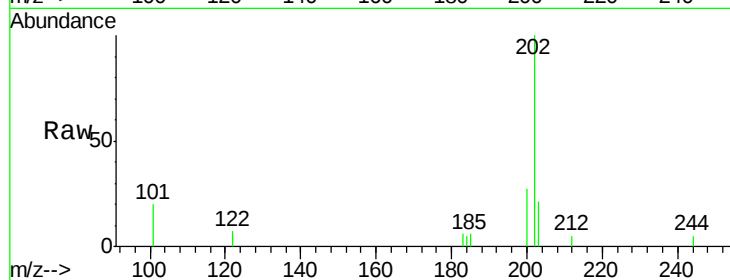
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampleId :

MDL-07-W



Tgt Ion:202 Resp: 1811

Ion Ratio Lower Upper

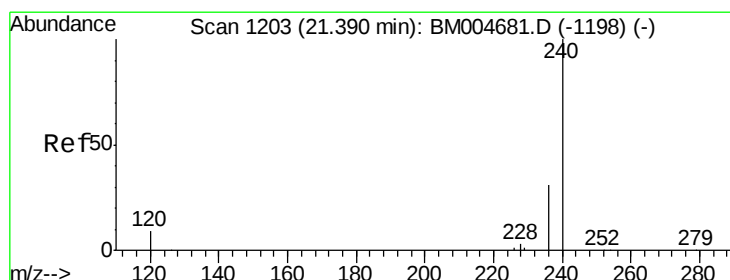
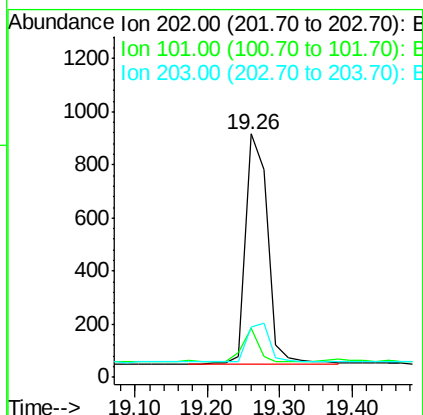
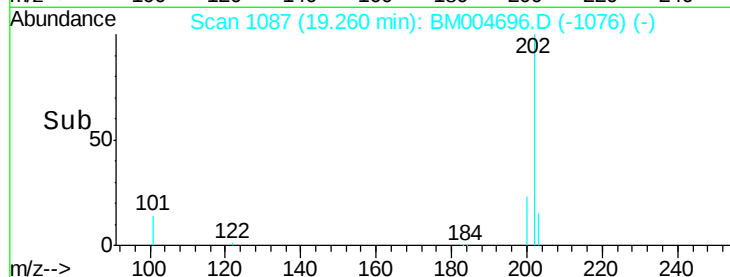
202 100

101 10.3 8.7 13.1

203 19.2 14.1 21.1

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#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

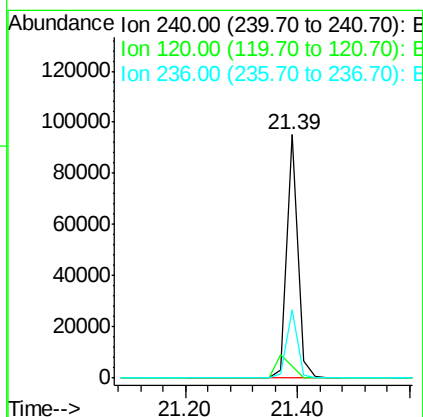
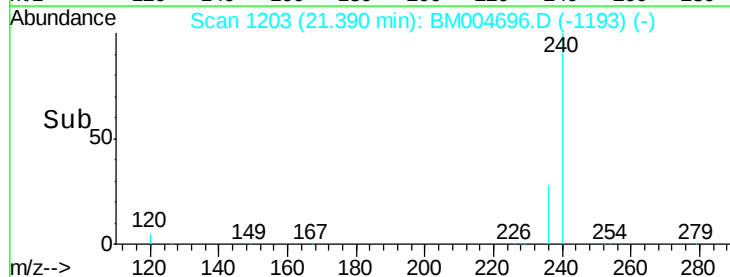
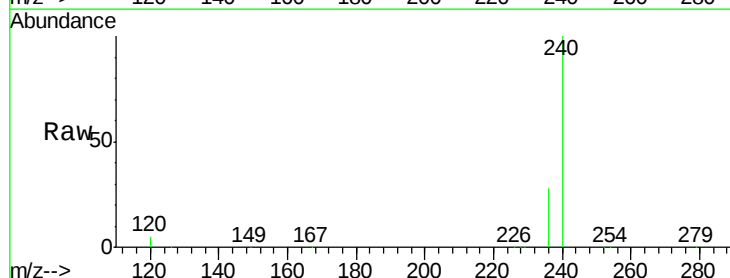
Tgt Ion:240 Resp: 131044

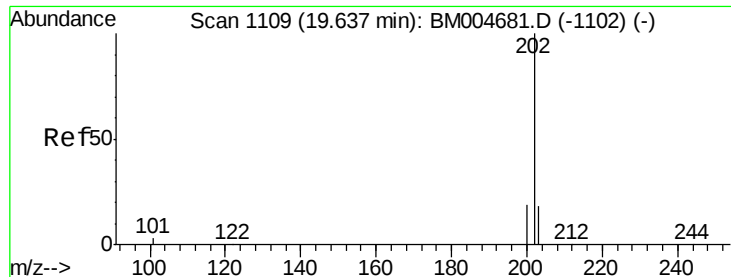
Ion Ratio Lower Upper

240 100

120 4.7 7.4 11.2#

236 27.9 24.5 36.7





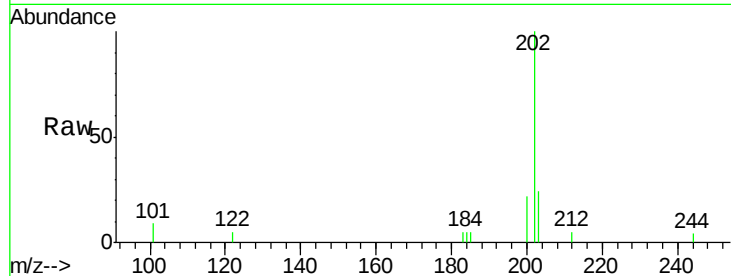
#23
 Pyrene
 Concen: 0.04 ng
 RT: 19.64 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: BM004696.D
 Acq: 19 Mar 2016 00:23

Instrument :
 BNA_M
 ClientSampleId :
 MDL-07-W

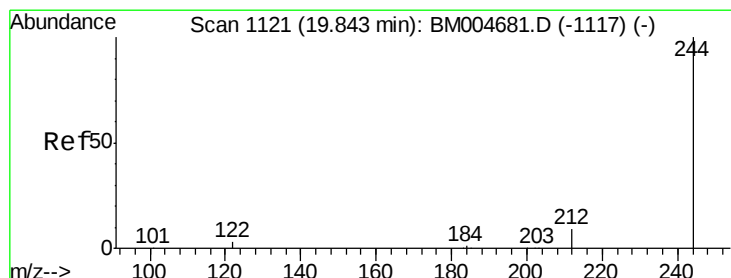
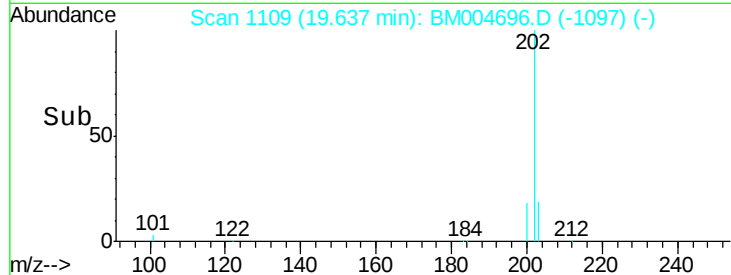
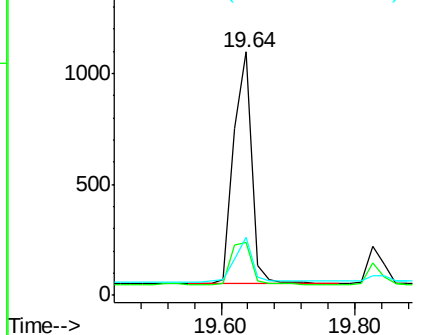
Tgt Ion:	202	Resp:	1956
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.8	25.2
203	19.6	13.9	20.9

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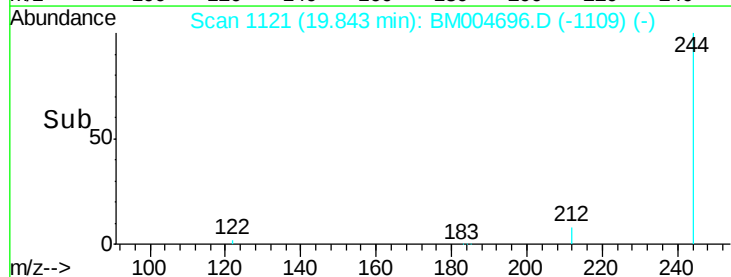
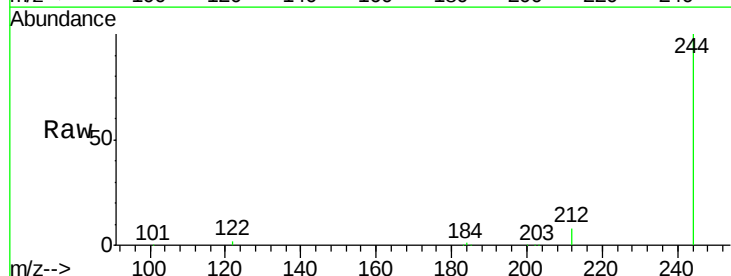
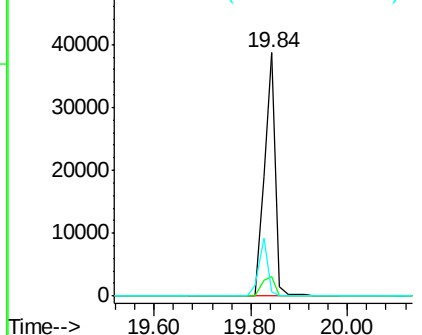
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

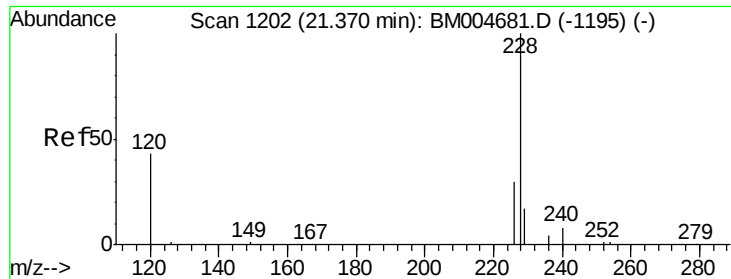


#24
 Terphenyl-d14
 Concen: 3.74 ng
 RT: 19.84 min Scan# 1121
 Delta R.T. 0.00 min
 Lab File: BM004696.D
 Acq: 19 Mar 2016 00:23

Tgt Ion:	244	Resp:	61887
Ion Ratio	Lower	Upper	
244	100		
212	8.3	7.7	11.5
122	1.7	3.4	5.0#

Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.04 ng m

RT: 21.37 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

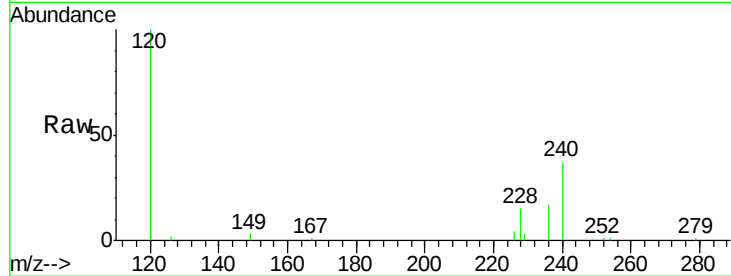
ClientSampleId :

MDL-07-W

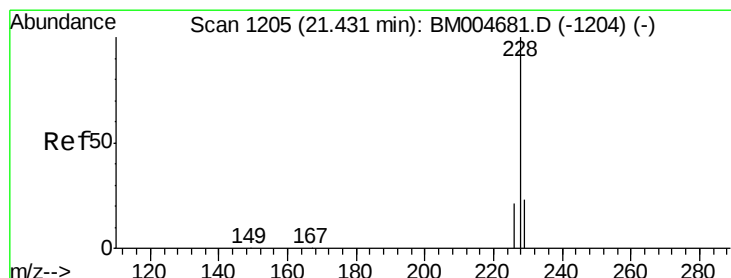
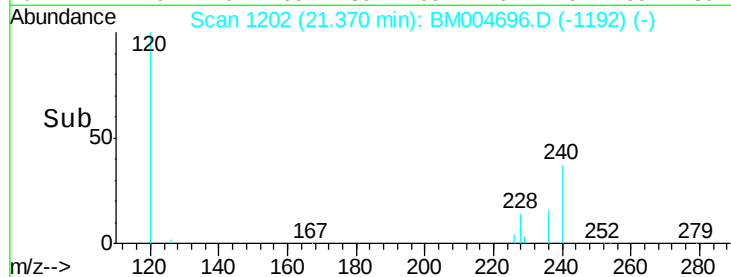
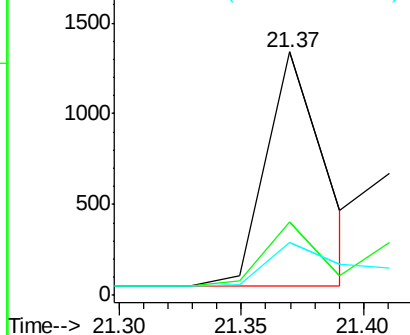
Tgt Ion:	228	Resp:	2172
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.2	36.2
229	21.8	14.2	21.2#

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#26

Chrysene

Concen: 0.05 ng m

RT: 21.43 min Scan# 1205

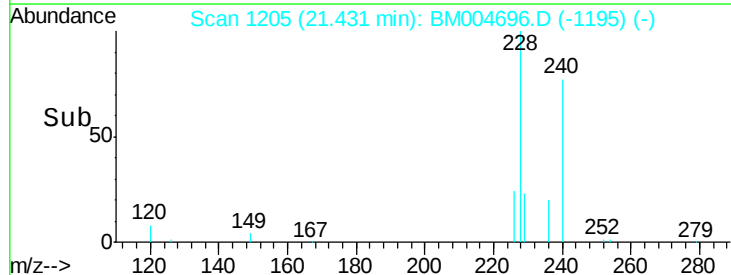
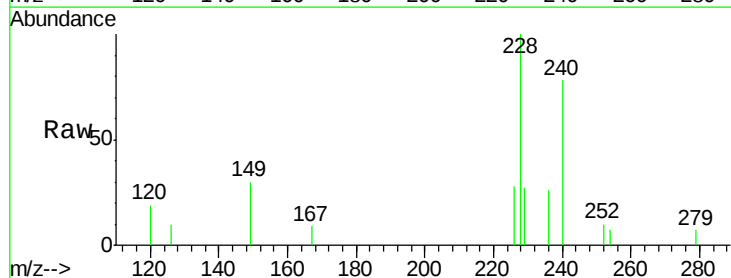
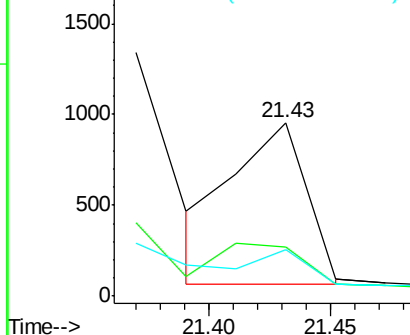
Delta R.T. 0.00 min

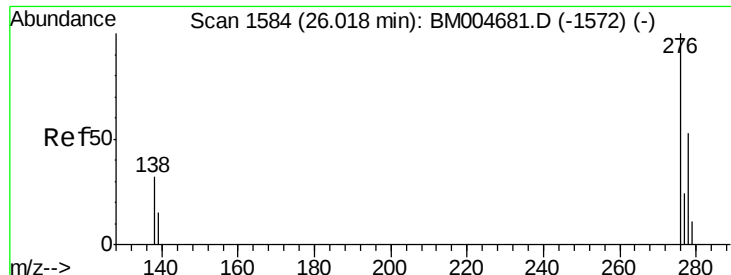
Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion:	228	Resp:	1889
Ion Ratio	Lower	Upper	
228	100		
226	28.2	20.9	31.3
229	27.0	17.4	26.2#

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





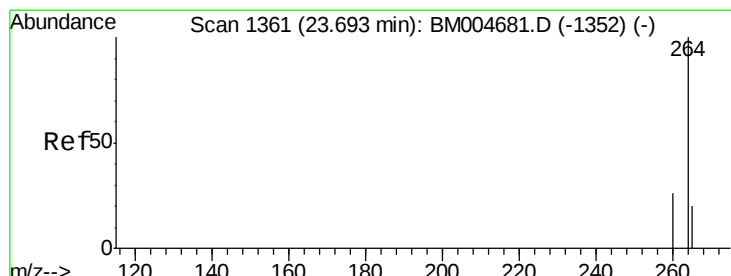
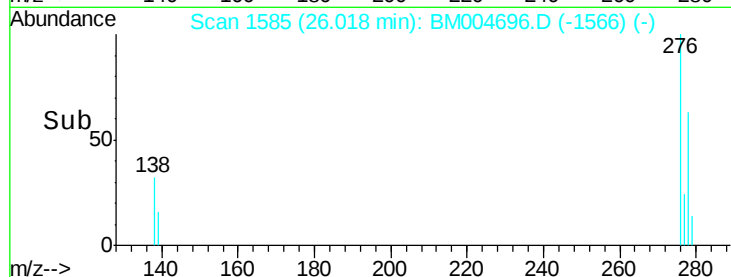
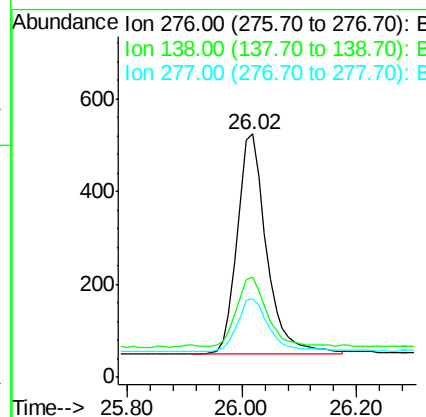
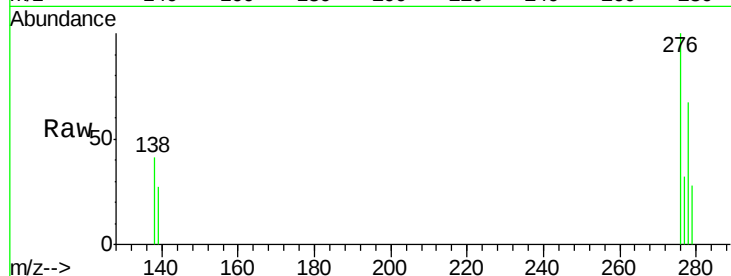
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.02 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Instrument :
BNA_M
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.2	25.9	38.9
277	25.2	19.8	29.6

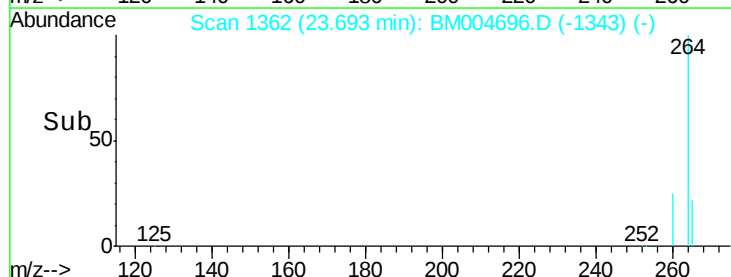
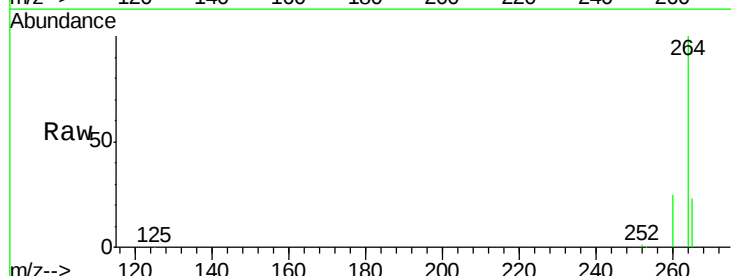
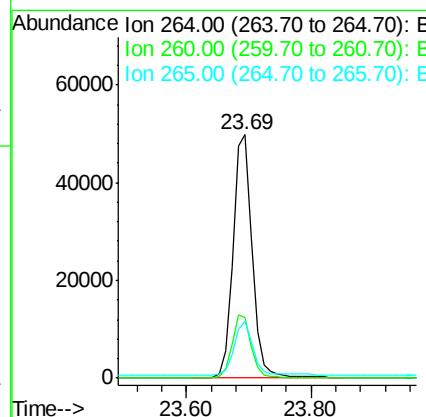
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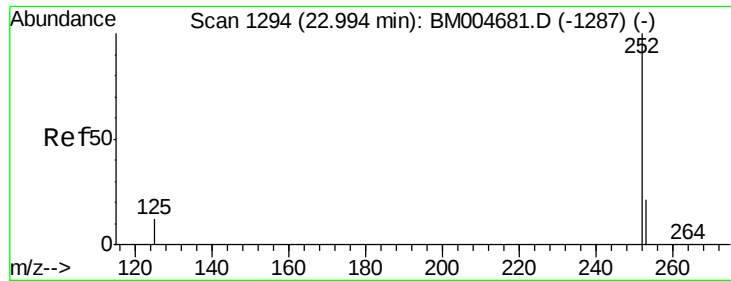
mohammad
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.69 min Scan# 1362
Delta R.T. 0.00 min
Lab File: BM004696.D
Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	21.0	31.4
265	23.1	17.5	26.3





#29

Benzo(b)fluoranthene

Concen: 0.05 ng

RT: 22.99 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BM004696.D

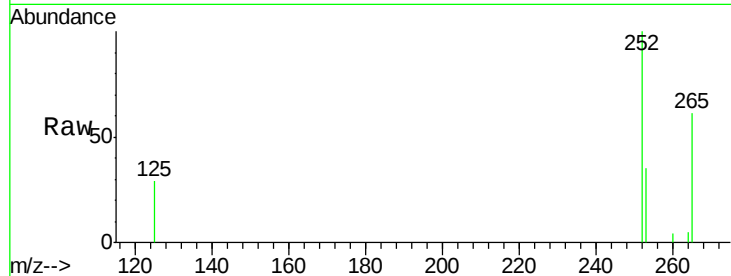
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampleId :

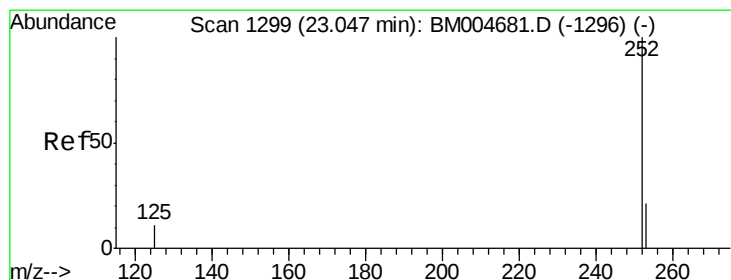
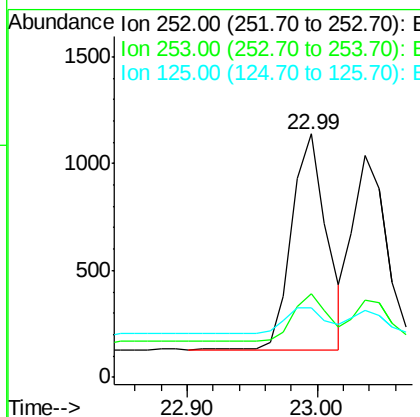
MDL-07-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.5	17.9	26.9#
125	28.6	11.4	17.0#

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#30

Benzo(k)fluoranthene

Concen: 0.04 ng

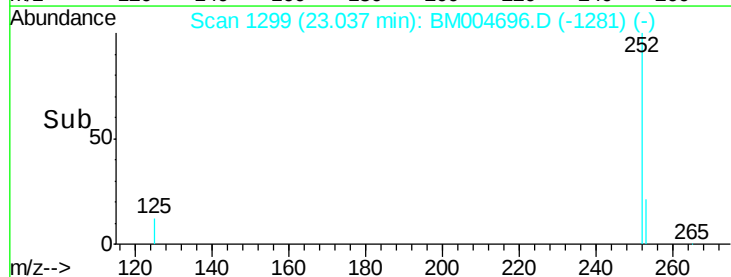
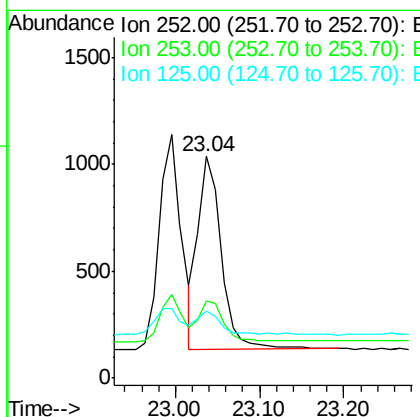
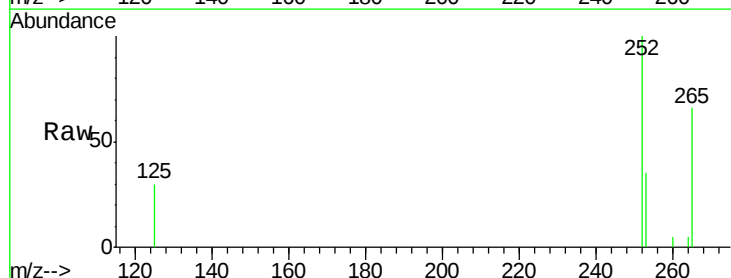
RT: 23.04 min Scan# 1299

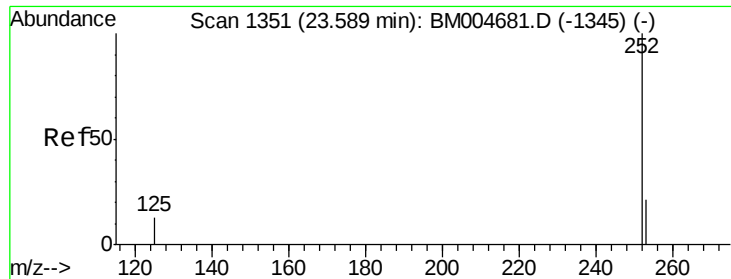
Delta R.T. -0.01 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.8	19.3	28.9#
125	30.4	10.6	15.8#





#31

Benzo(a)pyrene

Concen: 0.04 ng

RT: 23.58 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BM004696.D

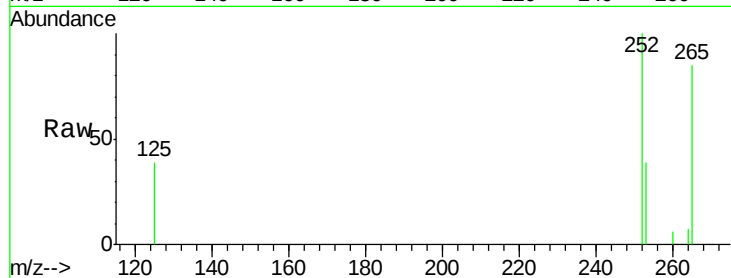
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampled :

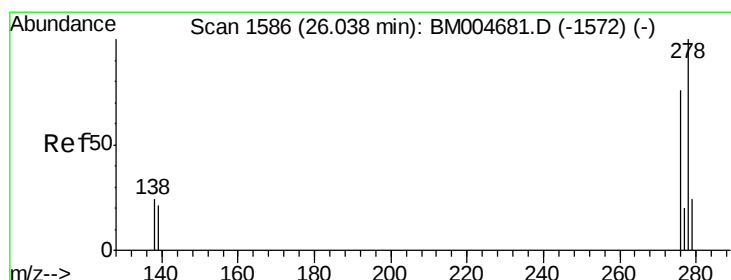
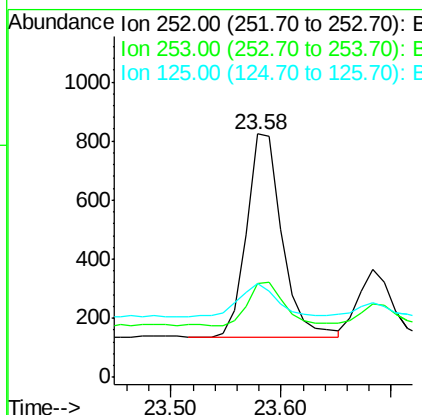
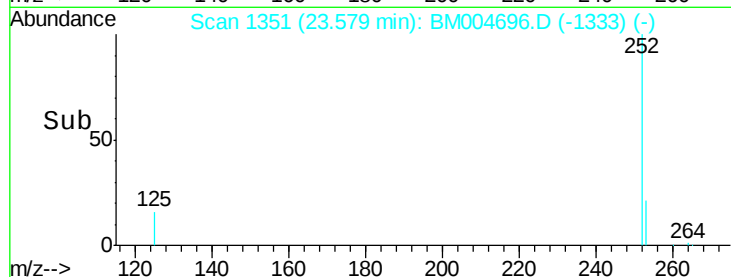
MDL-07-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	38.7	18.6	28.0#
125	38.6	12.3	18.5#

Manual Integrations
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mohammad
3/21/2016 2:46:53 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.04 ng

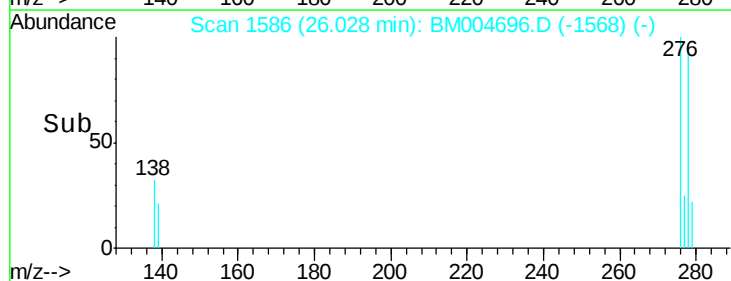
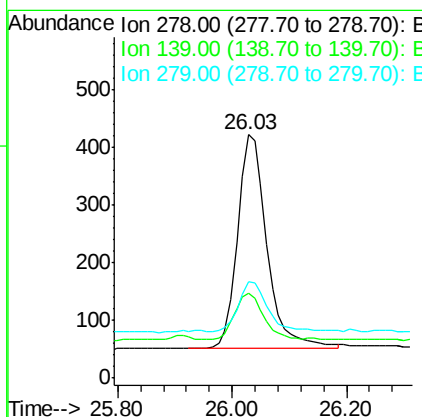
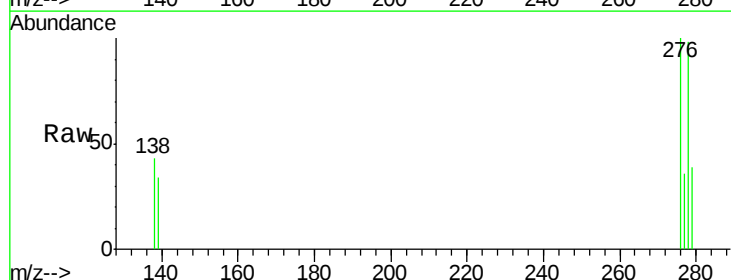
RT: 26.03 min Scan# 1586

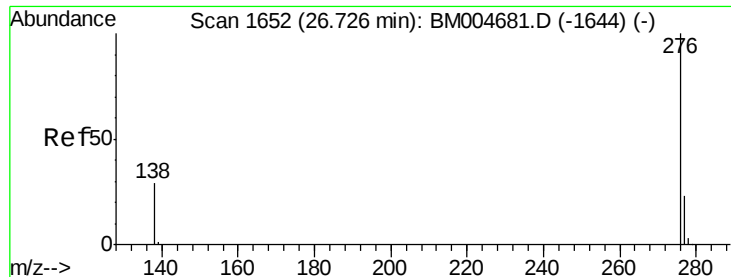
Delta R.T. -0.01 min

Lab File: BM004696.D

Acq: 19 Mar 2016 00:23

Tgt Ion	Ratio	Lower	Upper
278	100		
139	34.8	17.6	26.4#
279	39.3	19.9	29.9#





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 26.73 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BM004696.D

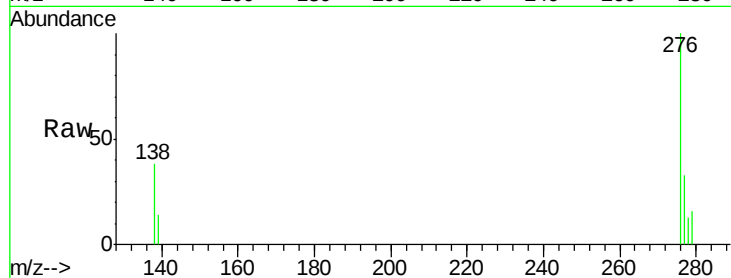
Acq: 19 Mar 2016 00:23

Instrument :

BNA_M

ClientSampleId :

MDL-07-W



Tgt Ion: 276 Resp: 1567

Ion Ratio Lower Upper

276 100

277 32.7 19.1 28.7#

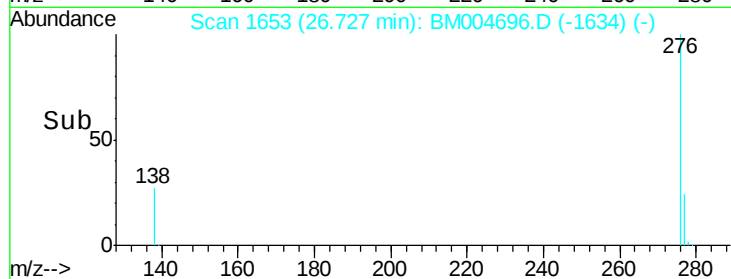
138 37.5 24.5 36.7#

Manual Integrations

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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

