

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
 Data File : BM004691.D
 Acq On : 18 Mar 2016 21:22
 Operator : UM/SJ
 Sample : MDL-02-W
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-W

Manual Integrations
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Quant Time: Mar 21 01:29:09 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	29070	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	116383	5.00	ng	-0.02
10) Acenaphthene-d10	14.47	164	60022	5.00	ng	0.00
16) Phenanthrene-d10	17.20	188	129641	5.00	ng	-0.02
22) Chrysene-d12	21.40	240	119897	5.00	ng	0.01
28) Perylene-d12	23.69	264	114139	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	47157	7.03	ng	0.00
5) Phenol-d6	6.99	99	56424	6.87	ng	0.00
7) Nitrobenzene-d5	8.99	82	20884	3.73	ng	0.00
11) 2,4,6-Tribromophenol	15.95	330	14849	7.46	ng	0.00
12) 2-Fluorobiphenyl	13.09	172	77322	4.50	ng	0.00
24) Terphenyl-d14	19.83	244	67747	4.47	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	279	0.03	ng	# 81
3) n-Nitrosodimethylamine	3.66	42	145	0.05	ng	# 88
8) Naphthalene	10.66	128	1594	0.05	ng	# 89
9) 2-Methylnaphthalene	12.28	142	991	0.05	ng	# 89
13) Acenaphthylene	14.18	152	1253	0.04	ng	99
14) Acenaphthene	14.51	154	1137	0.06	ng	90
15) Fluorene	15.51	166	1141	0.05	ng	# 99
17) Hexachlorobenzene	16.53	284	302	0.04	ng	# 100
18) Pentachlorophenol	16.86	266	193	0.17	ng	# 83
19) Phenanthrene	17.25	178	2207	0.04	ng	# 94
20) Anthracene	17.32	178	1432	0.04	ng	97
21) Fluoranthene	19.27	202	2003	0.04	ng	99
23) Pyrene	19.63	202	2127	0.05	ng	98
25) Benzo(a)anthracene	21.38	228	2266	0.05	ng	# 87
26) Chrysene	21.42	228	2172m	0.06	ng	
27) Indeno(1,2,3-cd)pyrene	26.02	276	1948	0.05	ng	99
29) Benzo(b)fluoranthene	22.99	252	2018	0.05	ng	# 72
30) Benzo(k)fluoranthene	23.05	252	1957	0.05	ng	# 70
31) Benzo(a)pyrene	23.59	252	1781	0.05	ng	# 66
32) Dibenzo(a,h)anthracene	26.04	278	1530	0.04	ng	# 77
33) Benzo(g,h,i)perylene	26.73	276	1743	0.05	ng	# 84

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

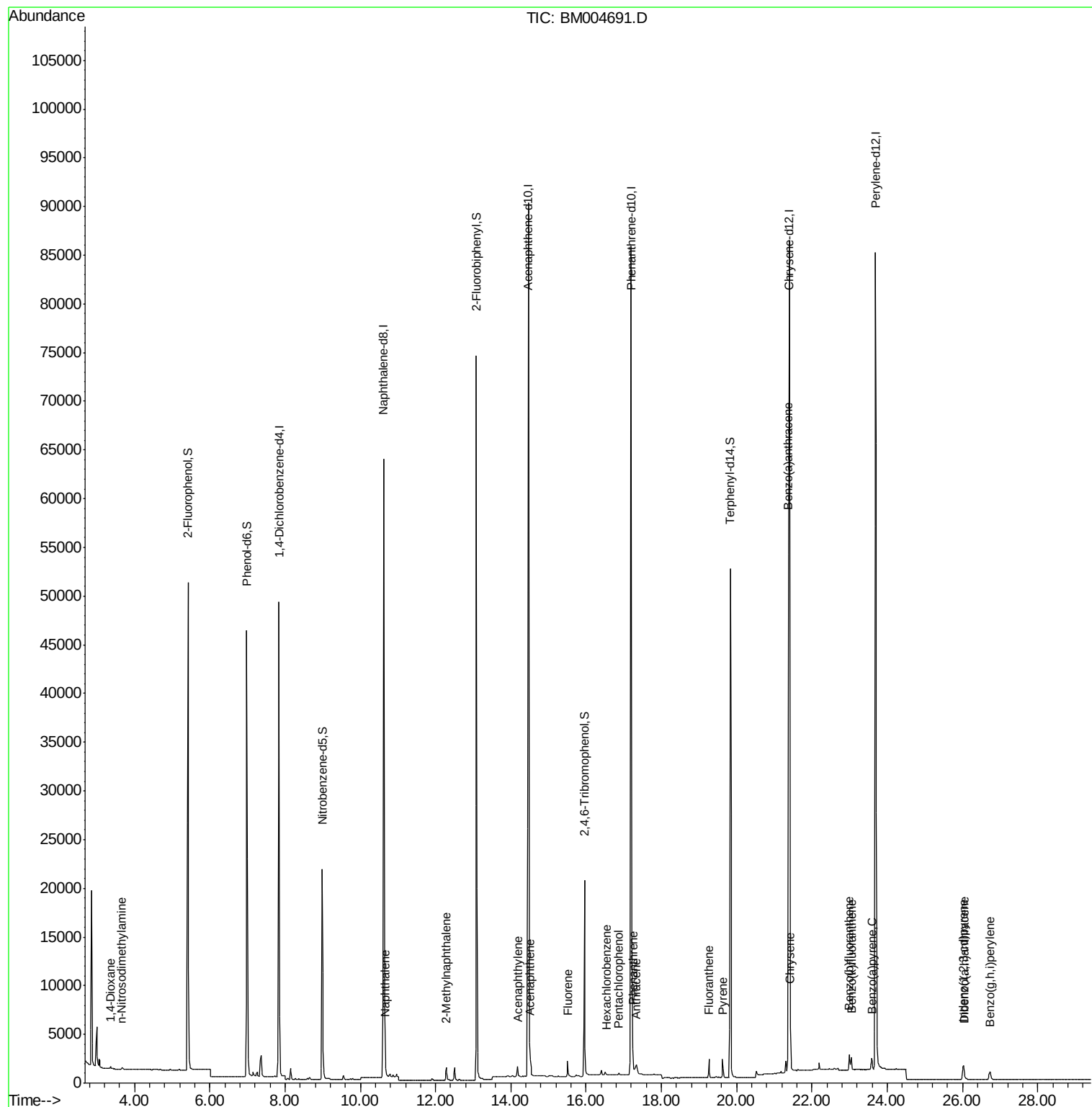
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
Data File : BM004691.D
Acq On : 18 Mar 2016 21:22
Operator : UM/SJ
Sample : MDL-02-W
Misc :
ALS Vial : 12 Sample Multiplier: 1

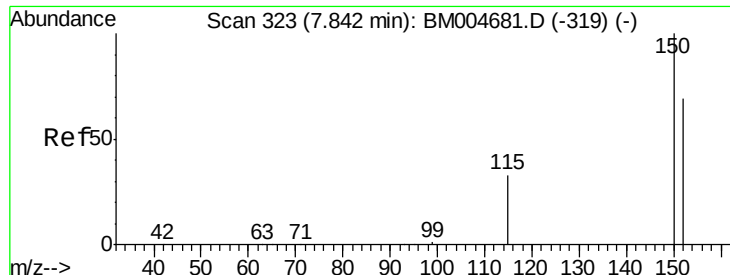
Instrument :
BNA_M
ClientSampleID :
MDL-02-W

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3/21/2016 2:43:26 PM

Quant Time: Mar 21 01:29:09 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 323

Delta R.T. 0.00 min

Lab File: BM004691.D

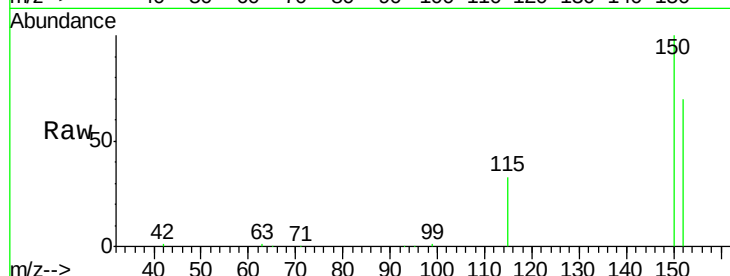
Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

ClientSampleId :

MDL-02-W



Tgt Ion:152 Resp: 29070

Ion Ratio Lower Upper

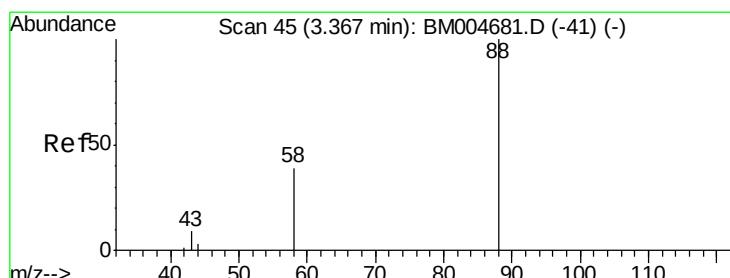
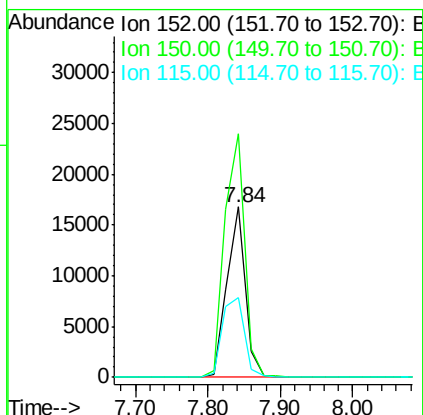
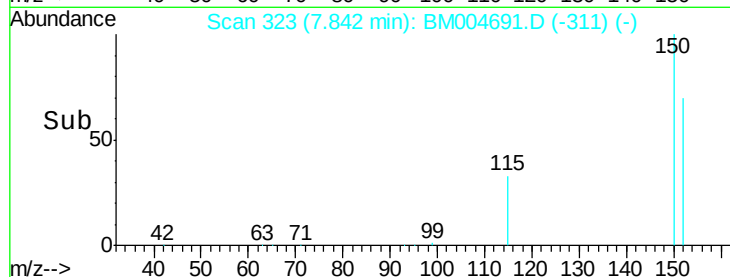
152 100

150 143.0 115.9 173.9

115 46.8 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: BM004691.D

Acq: 18 Mar 2016 21:22

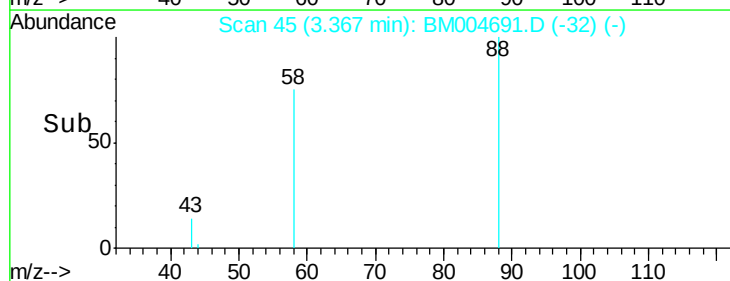
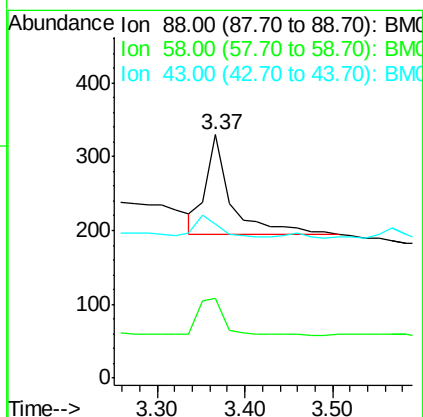
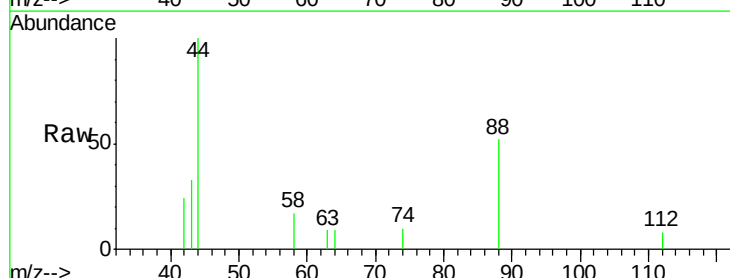
Tgt Ion: 88 Resp: 279

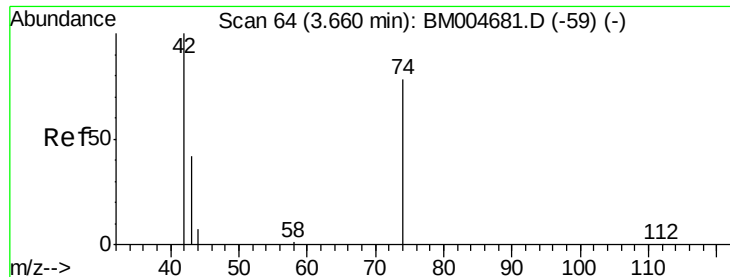
Ion Ratio Lower Upper

88 100

58 39.4 43.9 65.9#

43 18.3 19.9 29.9#





#3

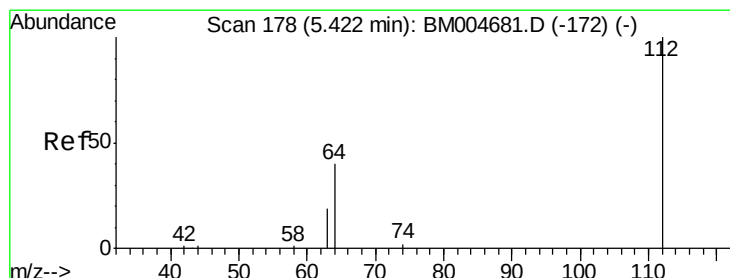
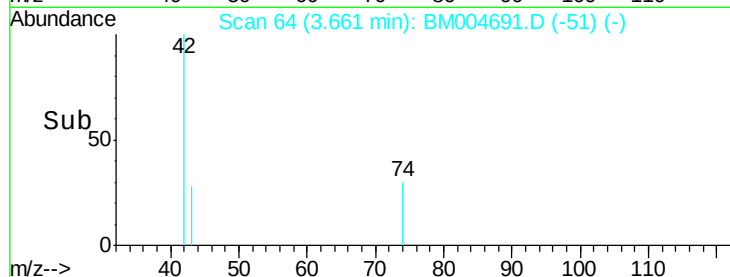
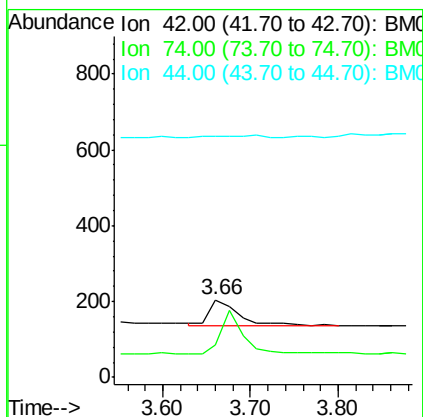
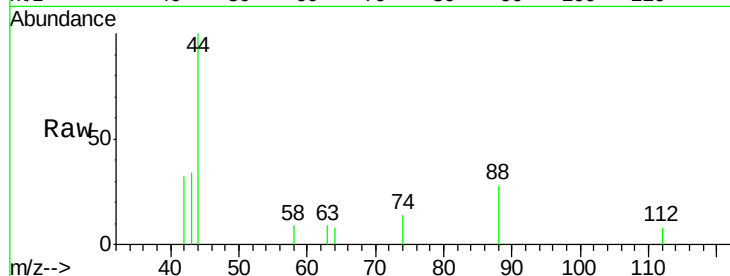
n-Nitrosodimethylamine
Concen: 0.05 ng
RT: 3.66 min Scan# 64
Delta R.T. 0.00 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Instrument :
BNA_M
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
42	100		
74	136.6	120.9	181.3
44	0.0	6.0	9.0#

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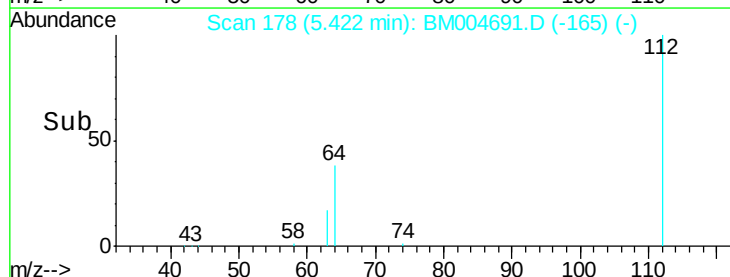
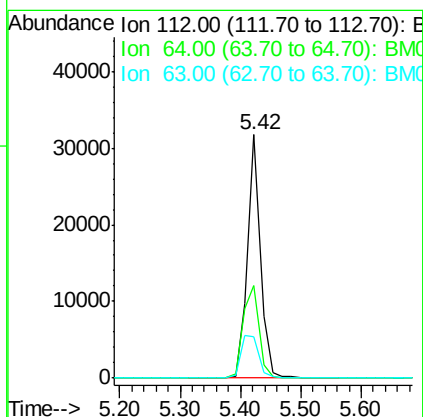
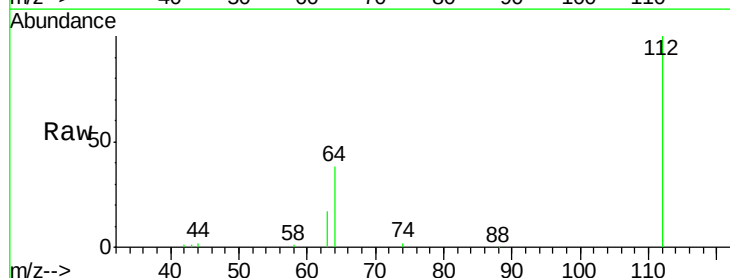
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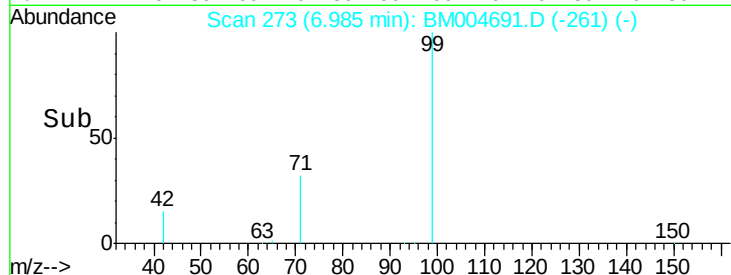
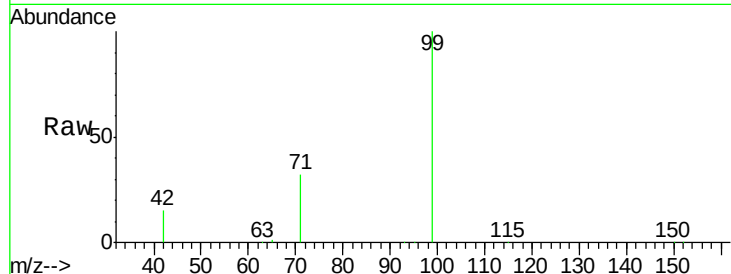
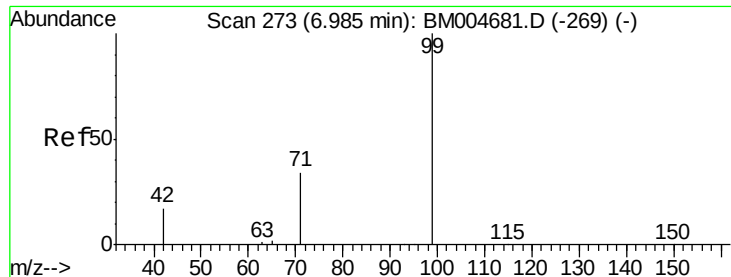


#4

2-Fluorophenol
Concen: 7.03 ng
RT: 5.42 min Scan# 178
Delta R.T. 0.00 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.4	37.0	55.6
63	23.7	19.3	28.9





#5

Phenol-d6

Concen: 6.87 ng

RT: 6.99 min Scan# 273

Delta R.T. 0.00 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

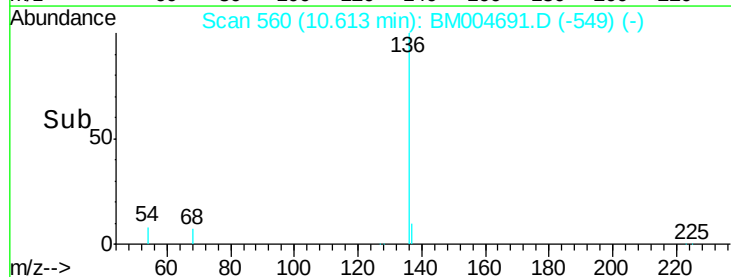
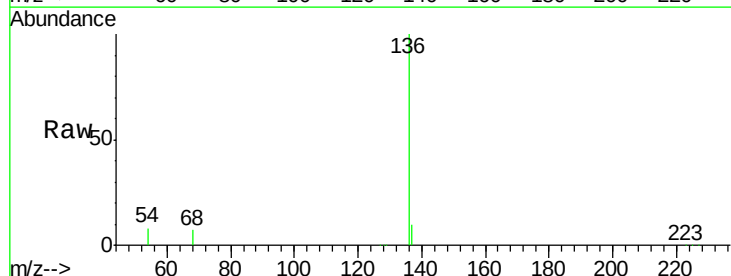
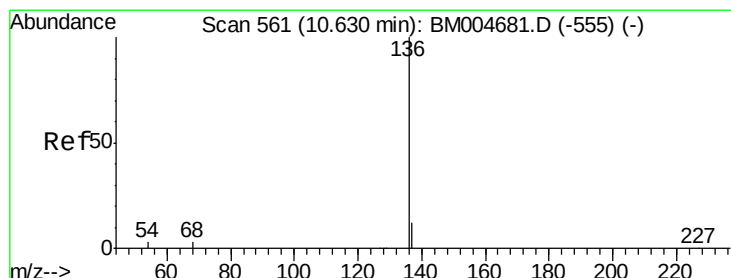
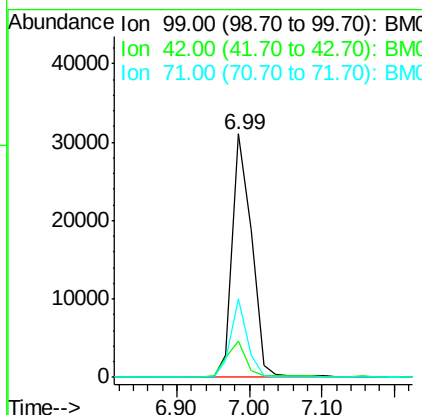
ClientSampleId :

MDL-02-W

Tgt Ion:	99	Resp:	56424
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

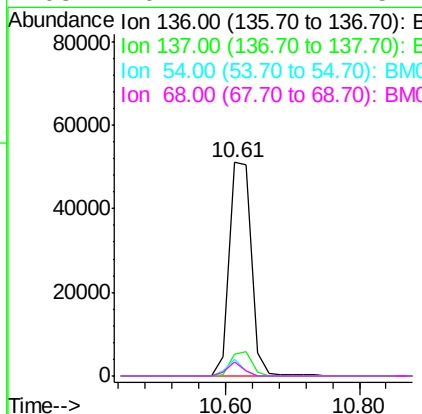
RT: 10.61 min Scan# 560

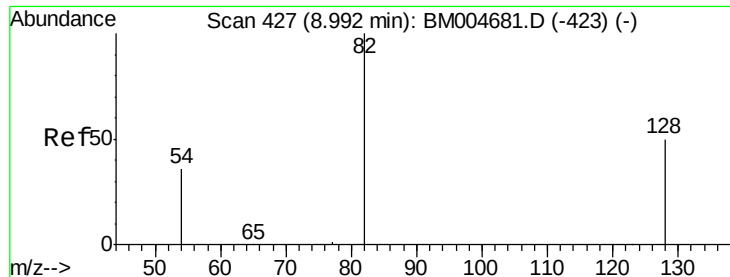
Delta R.T. -0.02 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Tgt Ion:	136	Resp:	116383
Ion Ratio	Lower	Upper	
136	100		
137	10.0	9.4	14.2
54	8.1	2.2	3.4#
68	6.7	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.73 ng

RT: 8.99 min Scan# 427

Delta R.T. 0.00 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

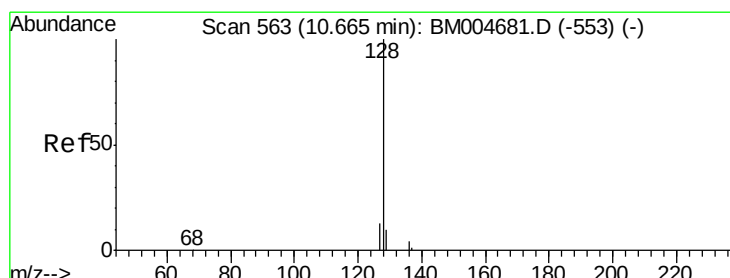
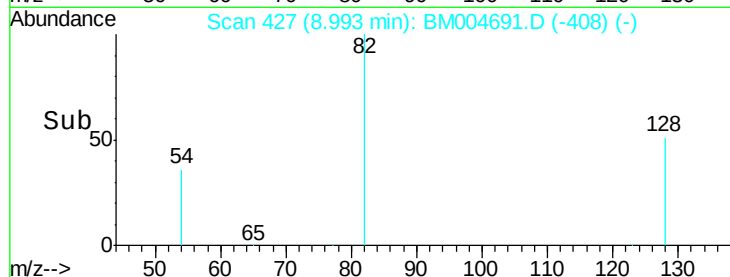
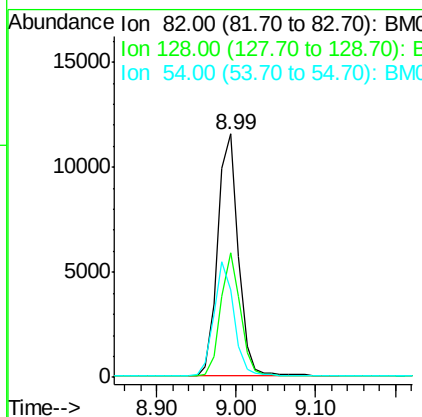
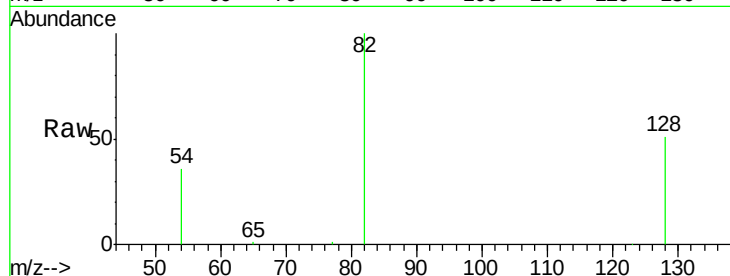
ClientSampleId :

MDL-02-W

Tgt Ion	82	Resp	20884
Ion Ratio	Lower	Upper	
82	100		
128	51.2	41.8	62.8
54	36.1	32.9	49.3

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#8

Naphthalene

Concen: 0.05 ng

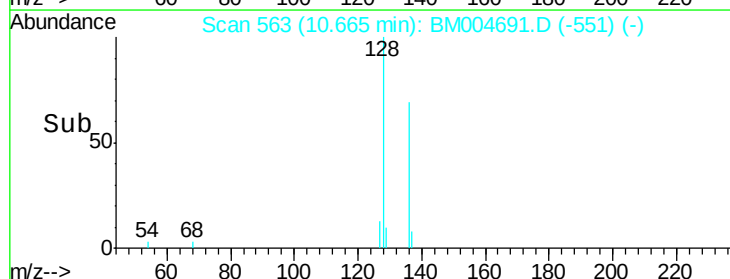
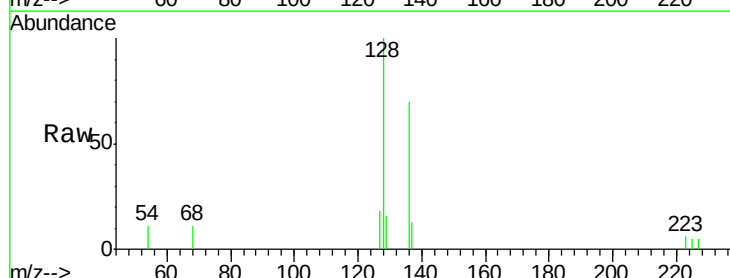
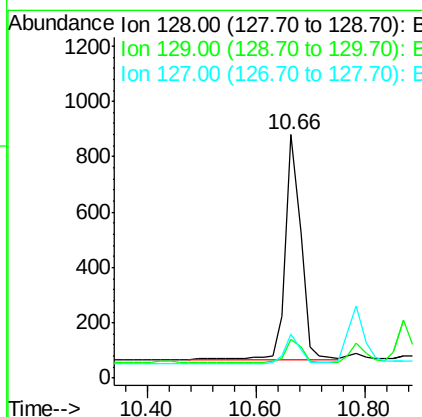
RT: 10.66 min Scan# 563

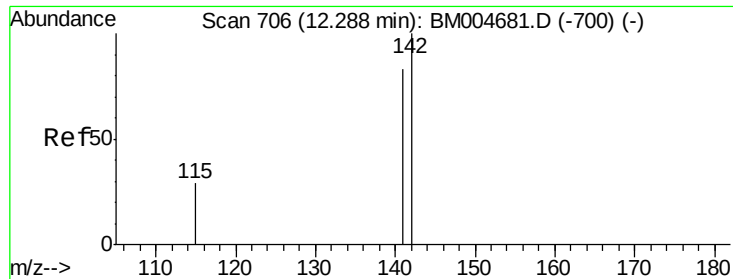
Delta R.T. 0.00 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Tgt Ion	128	Resp	1594
Ion Ratio	Lower	Upper	
128	100		
129	16.0	8.9	13.3#
127	18.3	11.3	16.9#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.28 min Scan# 705

Delta R.T. -0.00 min

Lab File: BM004691.D

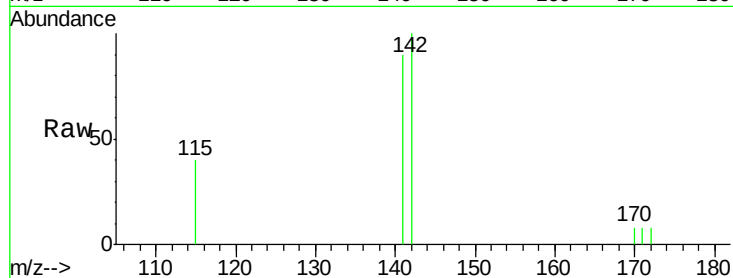
Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

ClientSampleId :

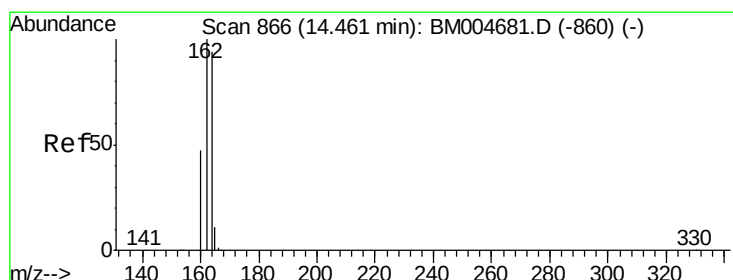
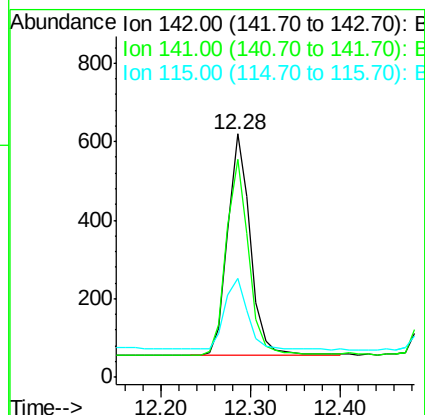
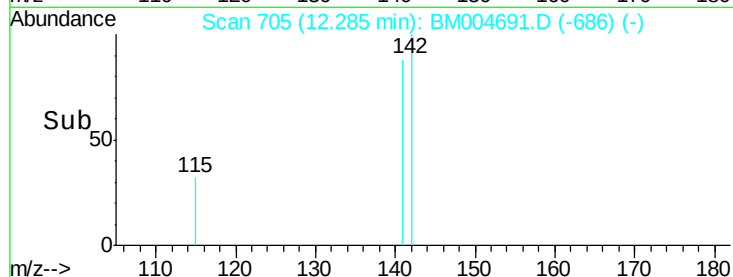
MDL-02-W



Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.5	66.2	99.2
115	40.5	23.8	35.8

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#10

Acenaphthene-d10

Concen: 5.00 ng

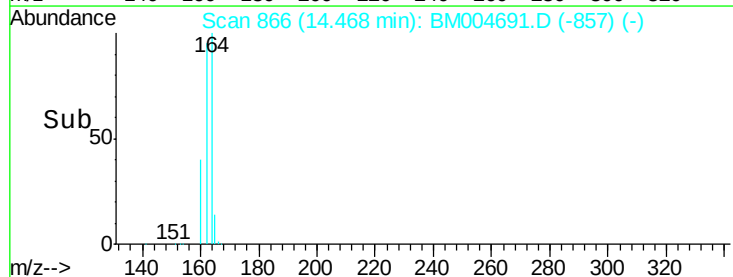
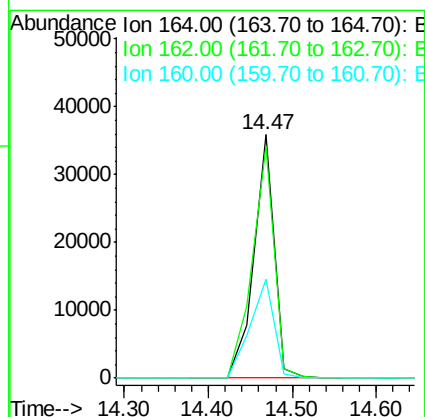
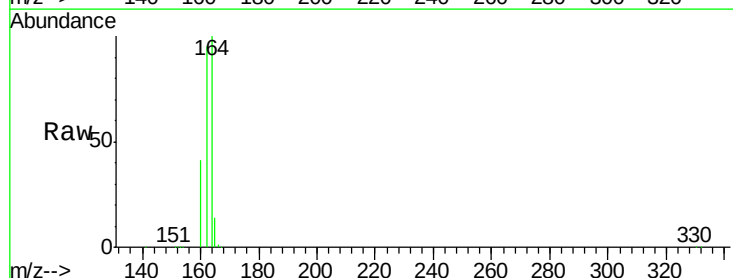
RT: 14.47 min Scan# 866

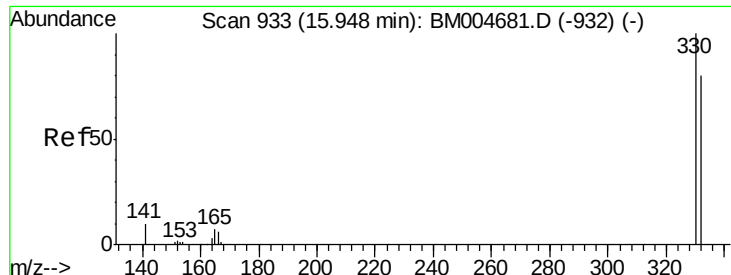
Delta R.T. 0.01 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	95.1	85.4	128.0
160	40.5	40.2	60.2





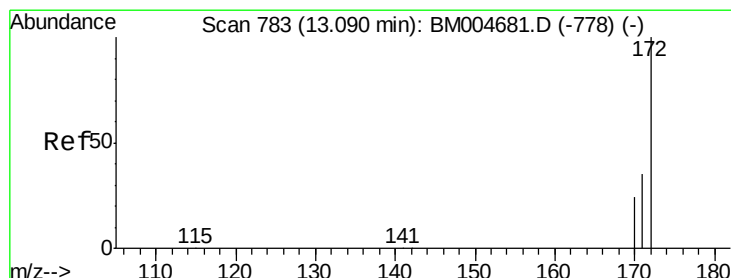
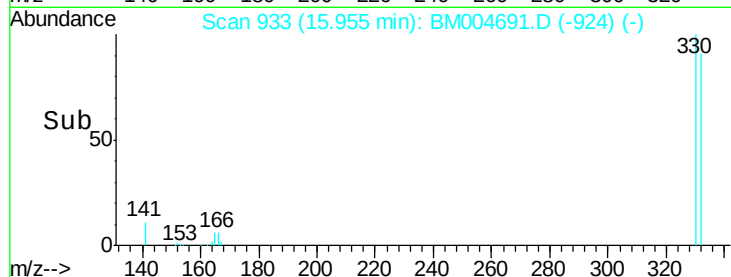
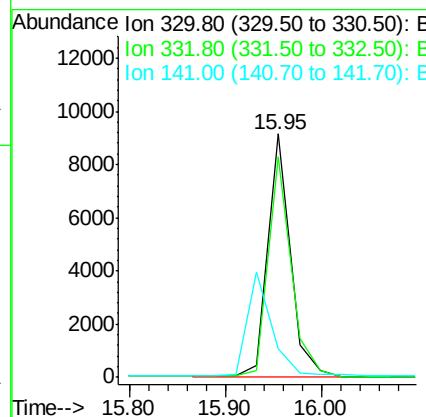
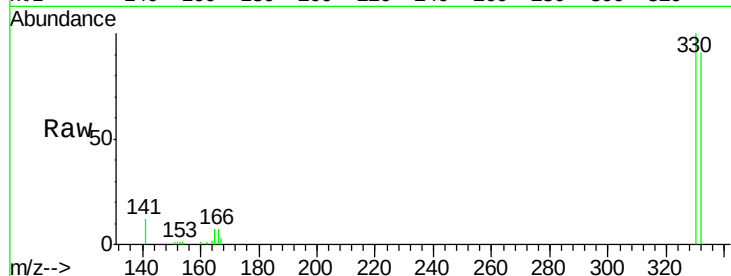
#11
 2,4,6-Tribromophenol
 Concen: 7.46 ng
 RT: 15.95 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-W

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.0	93.9	140.9#
141	0.0	42.2	63.2#

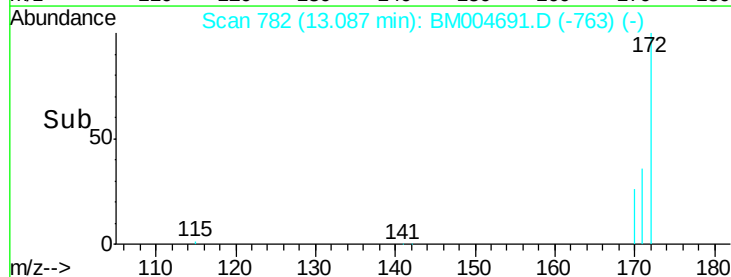
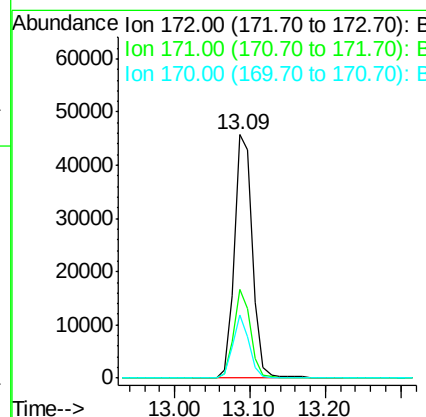
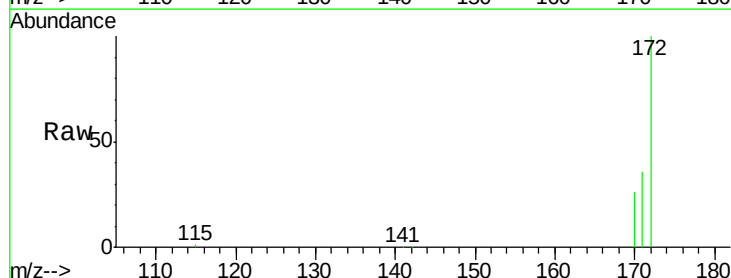
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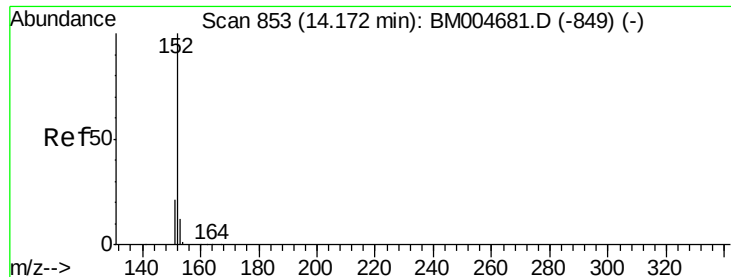
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#12
 2-Fluorobiphenyl
 Concen: 4.50 ng
 RT: 13.09 min Scan# 782
 Delta R.T. -0.00 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

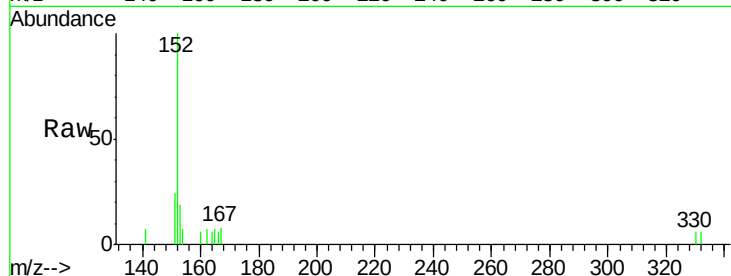
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.2	42.2
170	25.8	19.4	29.2





#13
Acenaphthylene
Concen: 0.04 ng
RT: 14.18 min Scan# 853
Delta R.T. 0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

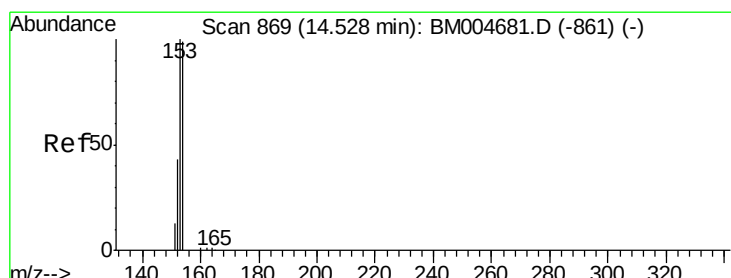
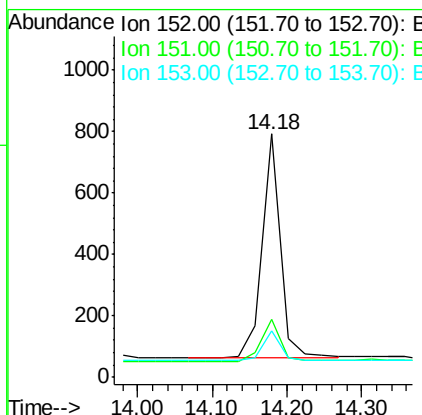
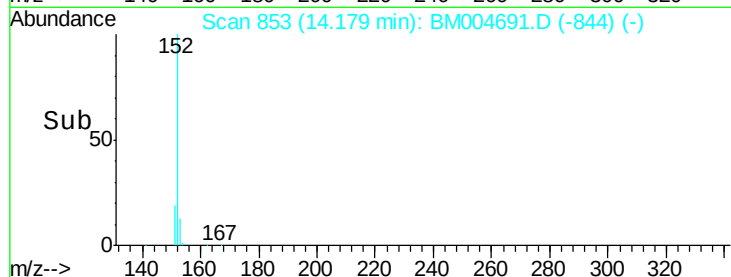
Instrument :
BNA_M
ClientSampleId :
MDL-02-W



Tgt Ion:	152	Resp:	1253
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.8	23.6
153	12.9	10.2	15.2

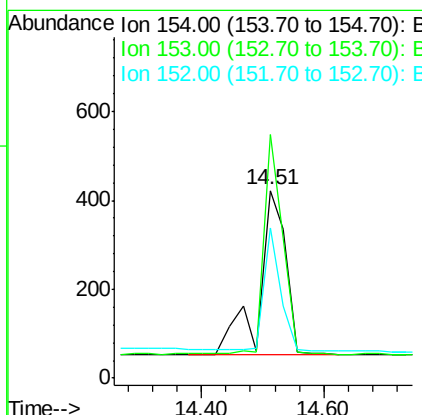
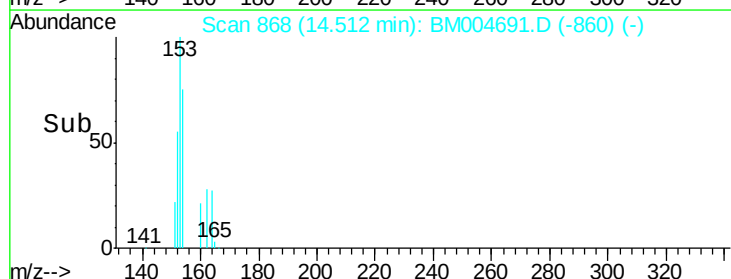
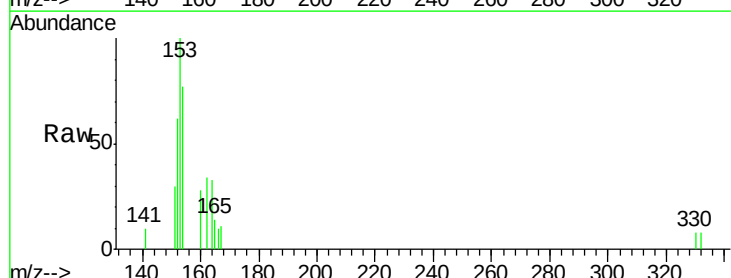
Manual Integrations
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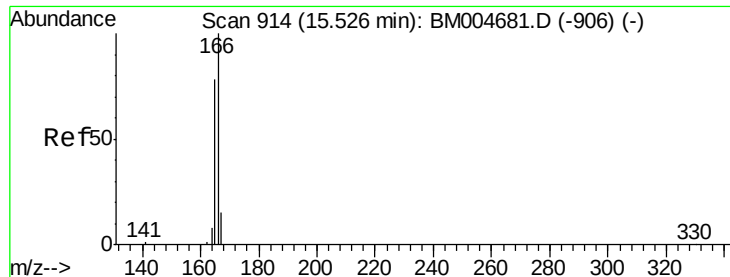
mohammad
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#14
Acenaphthene
Concen: 0.06 ng
RT: 14.51 min Scan# 868
Delta R.T. -0.02 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion:	154	Resp:	1137
Ion Ratio	Lower	Upper	
154	100		
153	91.7	83.8	125.6
152	47.1	40.3	60.5





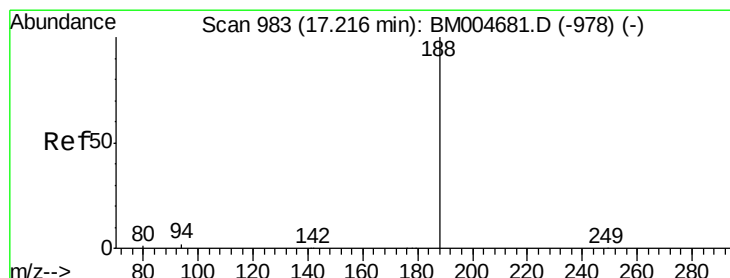
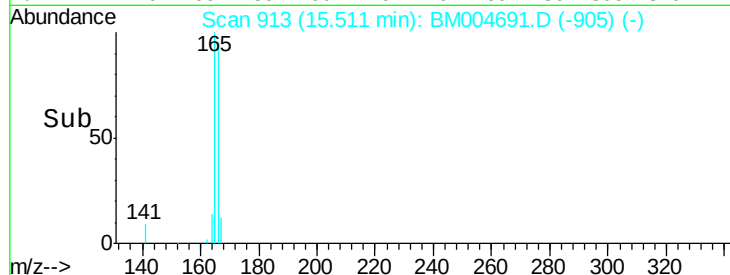
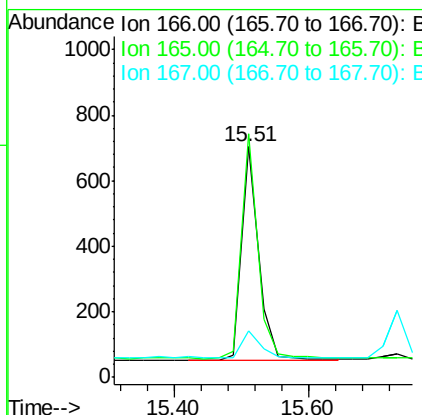
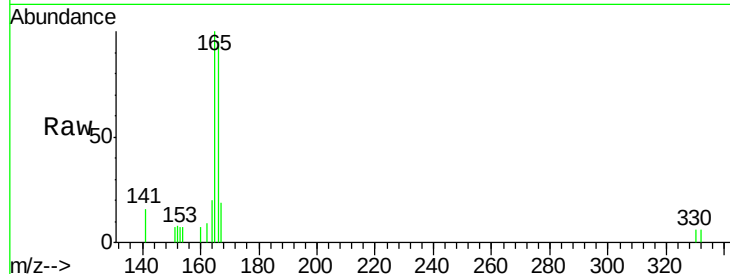
#15
Fluorene
 Concen: 0.05 ng
 RT: 15.51 min Scan# 913
 Delta R.T. -0.02 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-W

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.9	0.0	0.0#	
167	13.4	10.6	15.8	

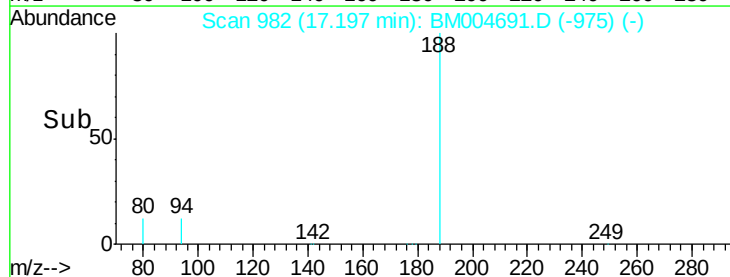
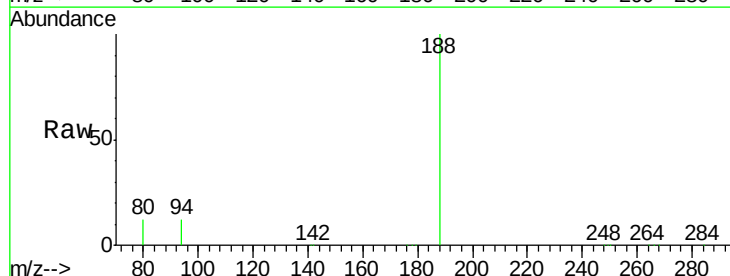
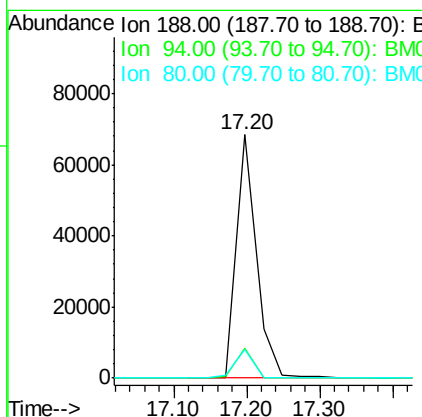
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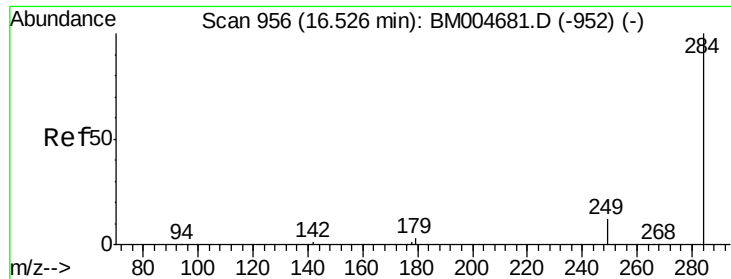
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.20 min Scan# 982
 Delta R.T. -0.02 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	12.2	1.4	2.0#	
80	11.8	1.0	1.6#	





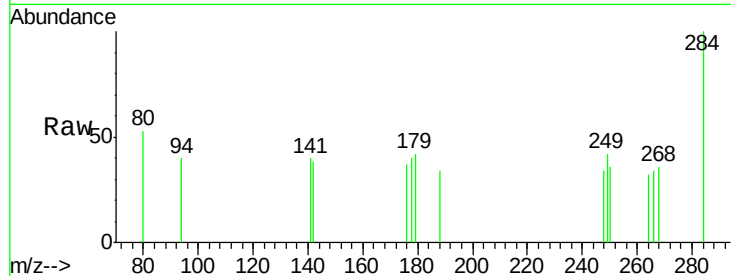
#17
Hexachlorobenzene
Concen: 0.04 ng
RT: 16.53 min Scan# 956
Delta R.T. 0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Instrument :
BNA_M
ClientSampleId :
MDL-02-W

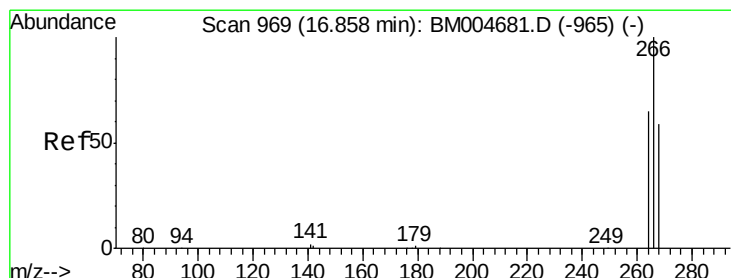
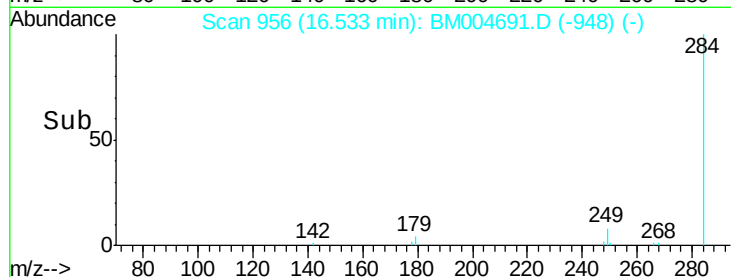
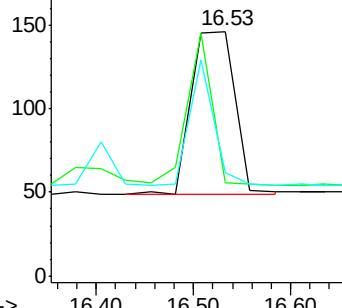
Tgt Ion	Ratio	Resp	Lower	Upper
284	100	302		
142	0.0	0.0	0.0	0.0
249	0.0	0.0	0.0	0.0

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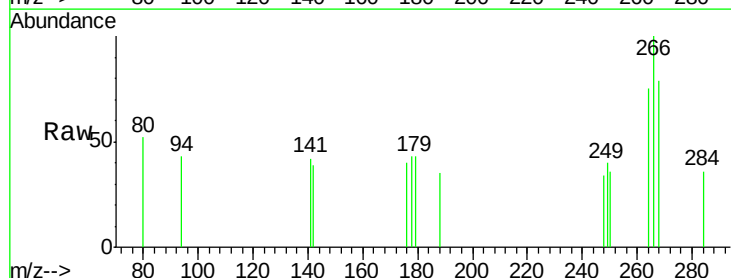


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

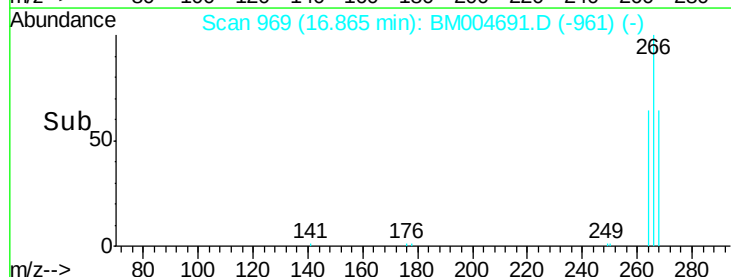
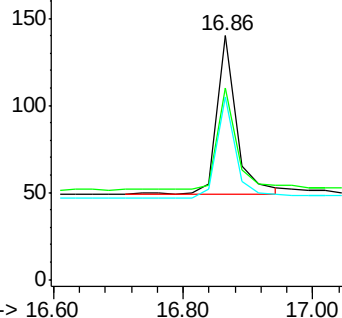


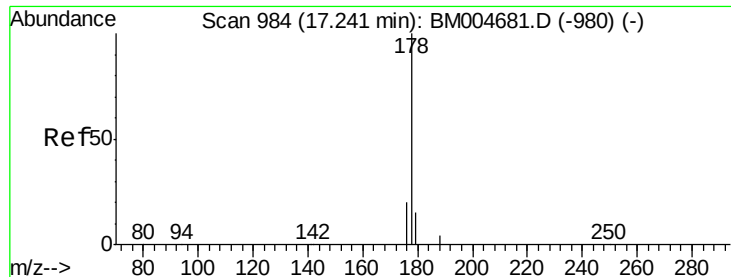
#18
Pentachlorophenol
Concen: 0.17 ng
RT: 16.86 min Scan# 969
Delta R.T. 0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	193		
268	78.6	49.1	73.7#	
264	75.0	52.9	79.3	



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





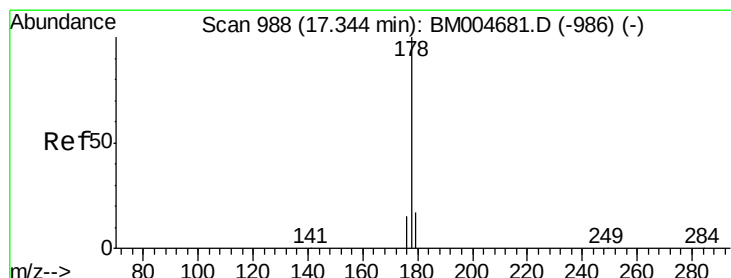
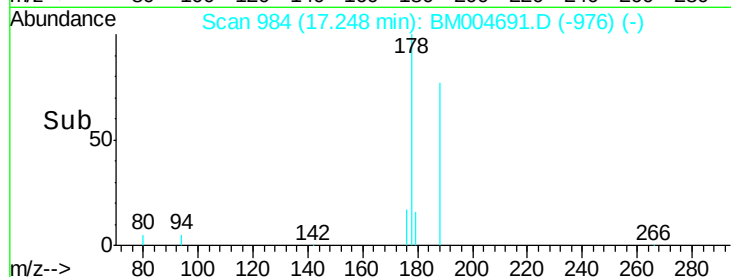
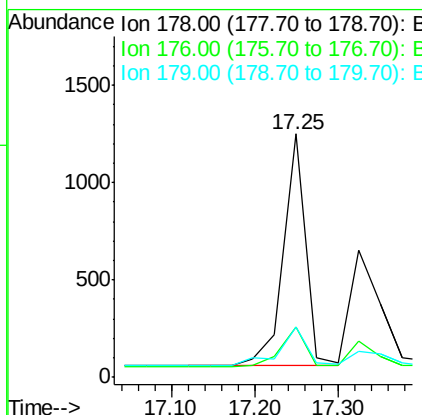
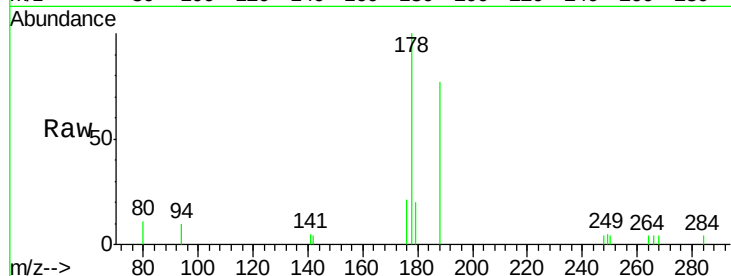
#19
Phenanthrene
Concen: 0.04 ng
RT: 17.25 min Scan# 984
Delta R.T. 0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Instrument :
BNA_M
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	19.8	12.2	18.4

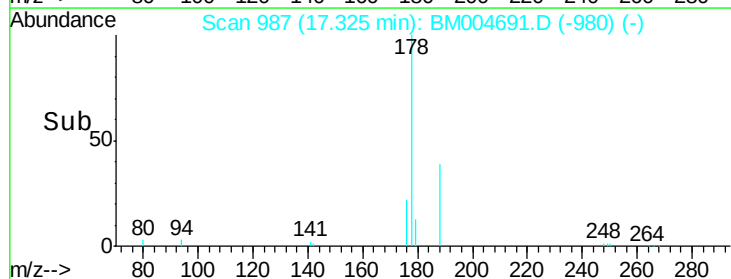
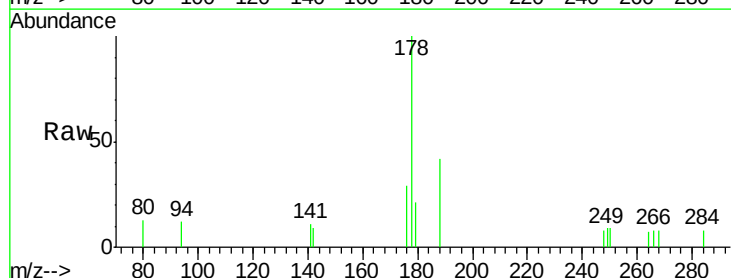
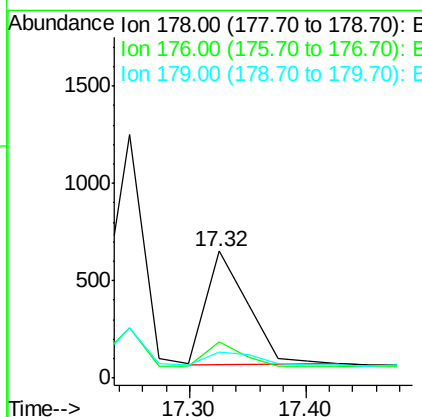
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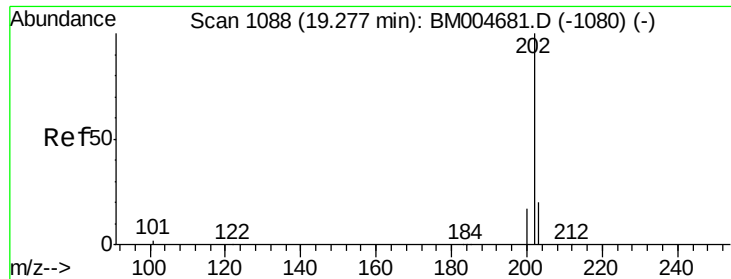
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#20
Anthracene
Concen: 0.04 ng
RT: 17.32 min Scan# 987
Delta R.T. -0.02 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	14.5	21.7
179	15.1	12.6	18.8





#21

Fluoranthene

Concen: 0.04 ng

RT: 19.27 min Scan# 1087

Delta R.T. -0.01 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

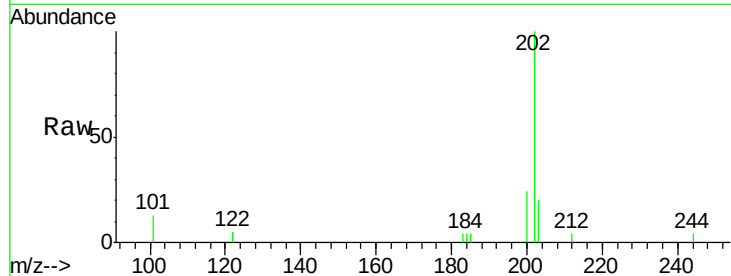
ClientSampleId :

MDL-02-W

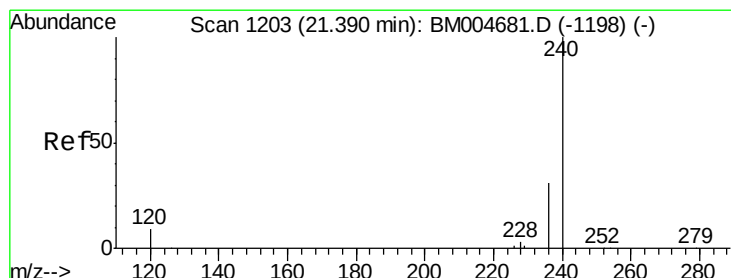
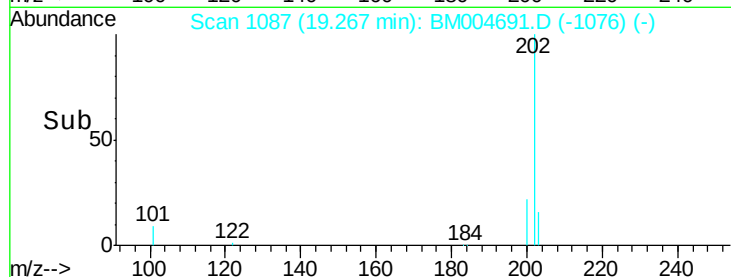
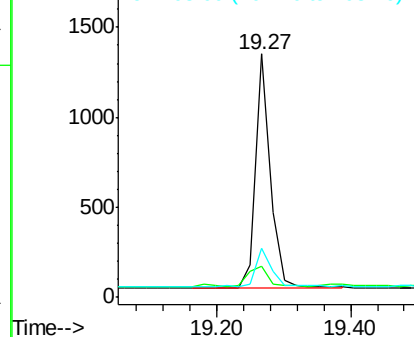
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	10.9	8.7	13.1	
203	18.2	14.1	21.1	

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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

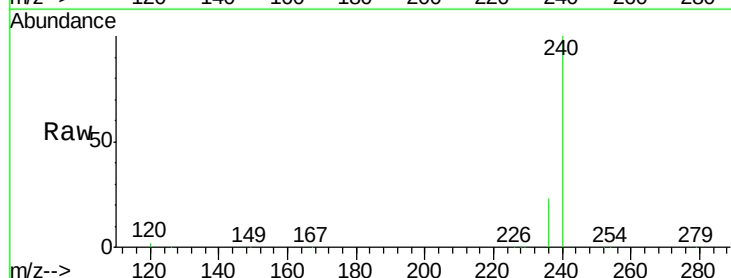
RT: 21.40 min Scan# 1203

Delta R.T. 0.01 min

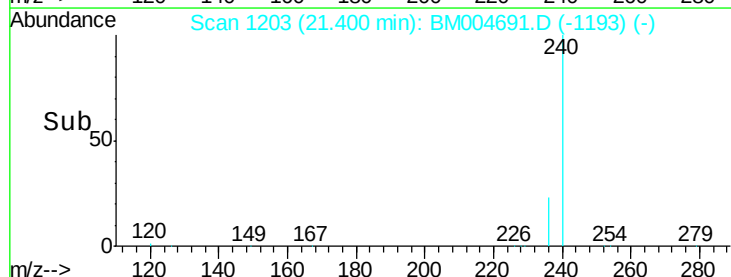
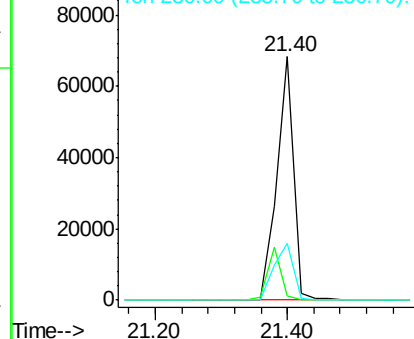
Lab File: BM004691.D

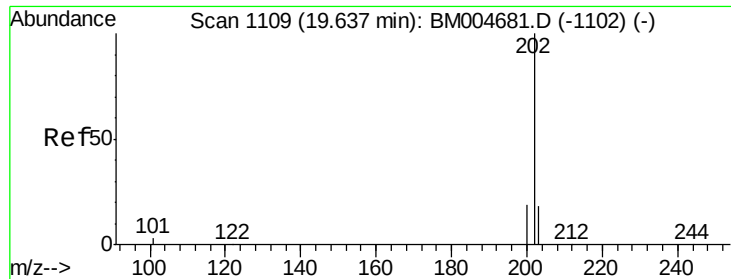
Acq: 18 Mar 2016 21:22

Tgt	Ion	Ratio	Lower	Upper
240	100			
120	1.6	7.4	11.2#	
236	23.2	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





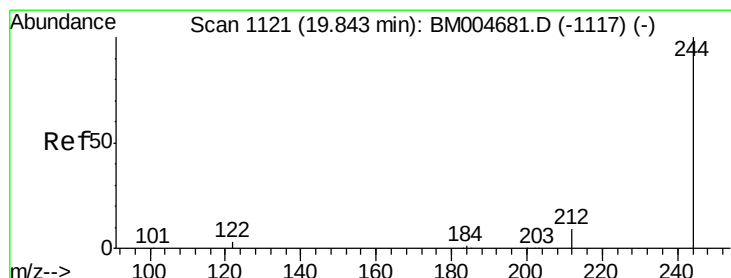
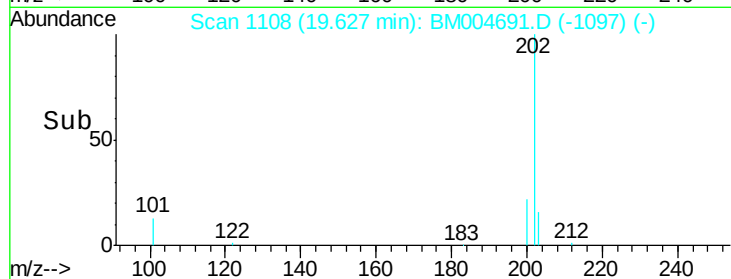
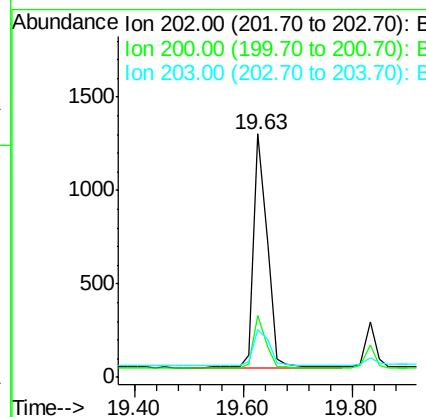
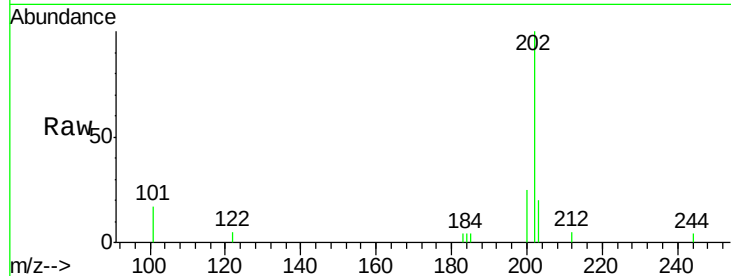
#23
Pyrene
Concen: 0.05 ng
RT: 19.63 min Scan# 1108
Delta R.T. -0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Instrument :
BNA_M
ClientSampleId :
MDL-02-W

Tgt Ion:	202	Resp:	2127
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.8	25.2
203	19.0	13.9	20.9

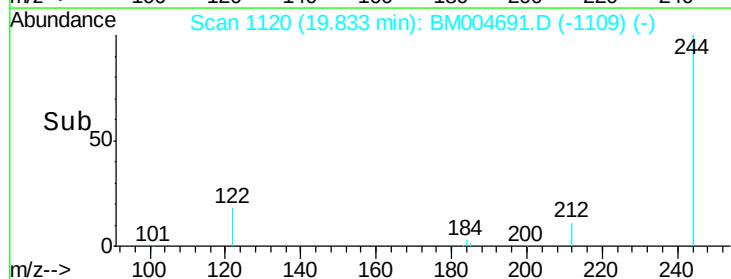
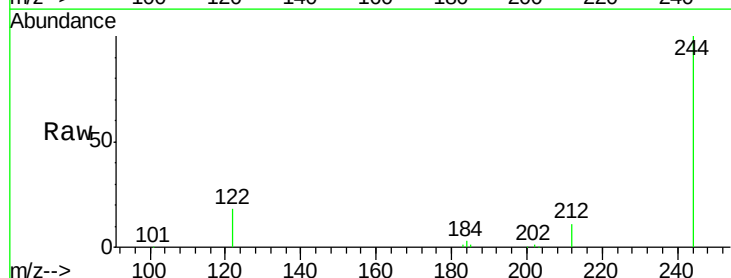
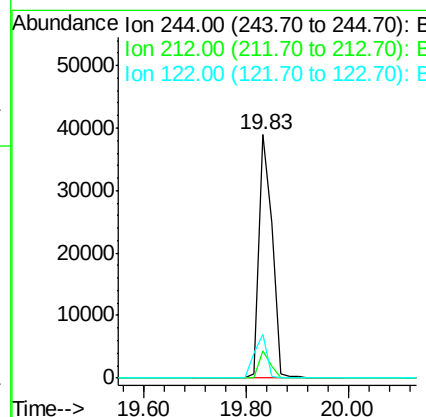
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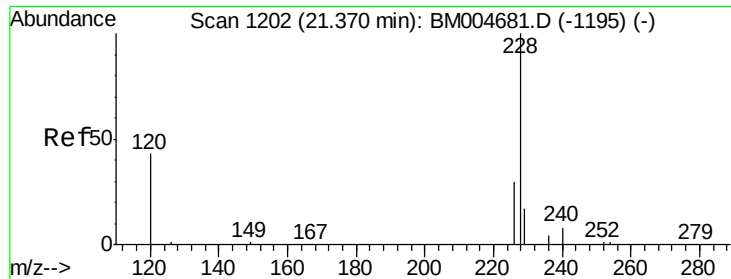
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#24
Terphenyl-d14
Concen: 4.47 ng
RT: 19.83 min Scan# 1120
Delta R.T. -0.01 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion:	244	Resp:	67747
Ion Ratio	Lower	Upper	
244	100		
212	11.4	7.7	11.5
122	18.3	3.4	5.0#





#25

Benzo(a)anthracene

Concen: 0.05 ng

RT: 21.38 min Scan# 1202

Delta R.T. 0.01 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

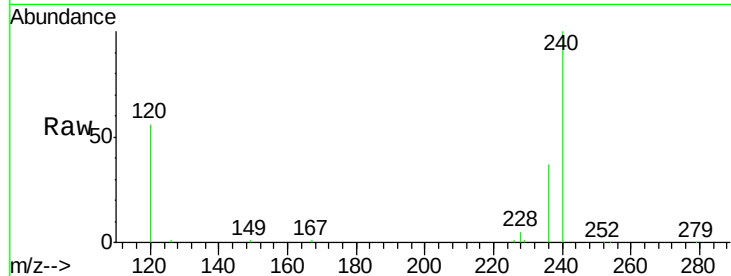
ClientSampleId :

MDL-02-W

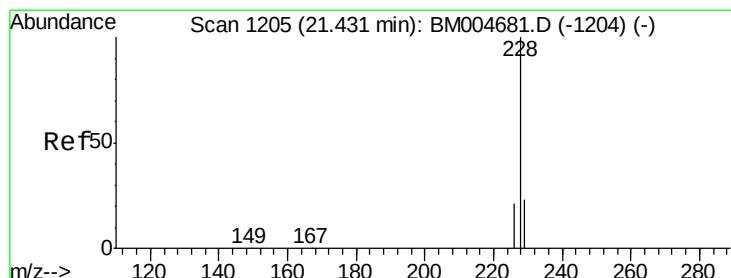
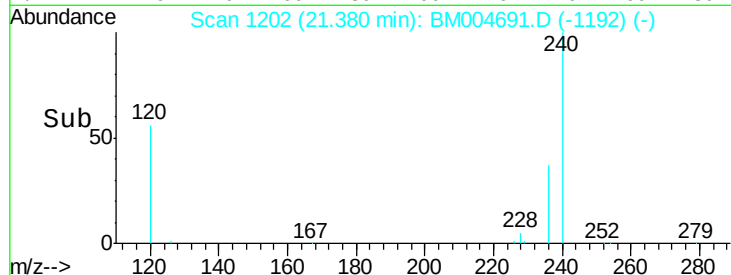
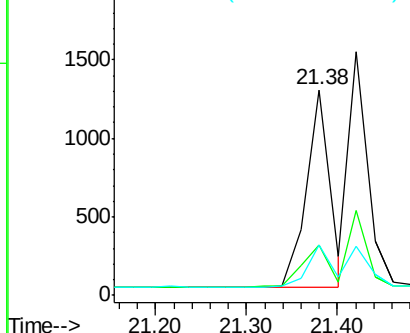
Tgt Ion:	228	Resp:	2266
Ion Ratio	Lower	Upper	
228	100		
226	24.4	24.2	36.2
229	24.7	14.2	21.2#

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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: 0.06 ng m

RT: 21.42 min Scan# 1204

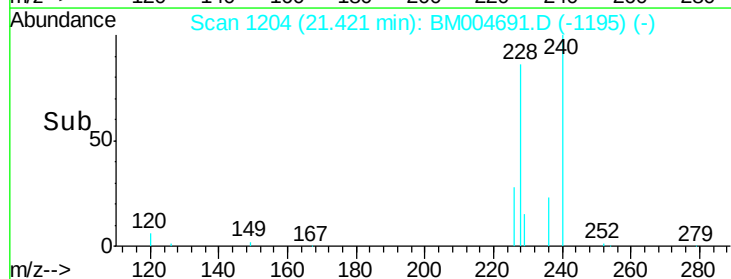
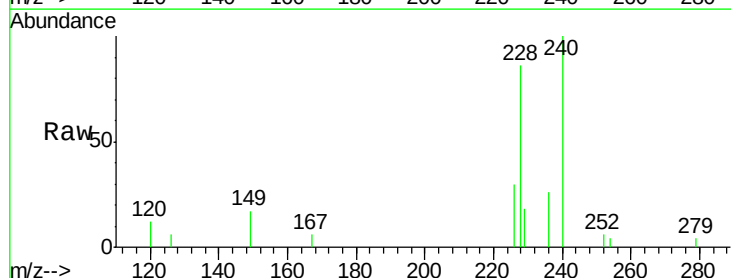
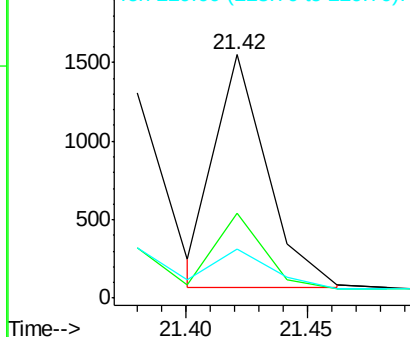
Delta R.T. -0.01 min

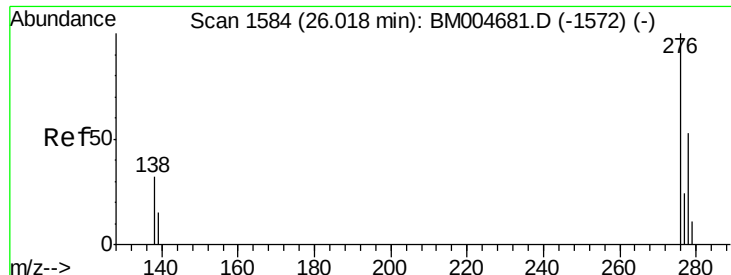
Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Tgt Ion:	228	Resp:	2172
Ion Ratio	Lower	Upper	
228	100		
226	34.9	20.9	31.3#
229	20.4	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





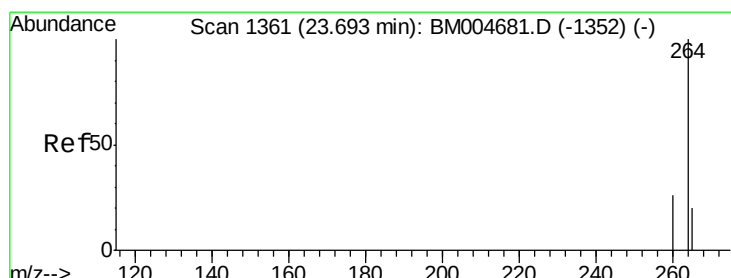
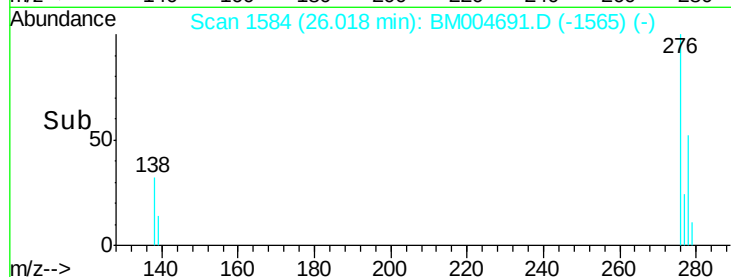
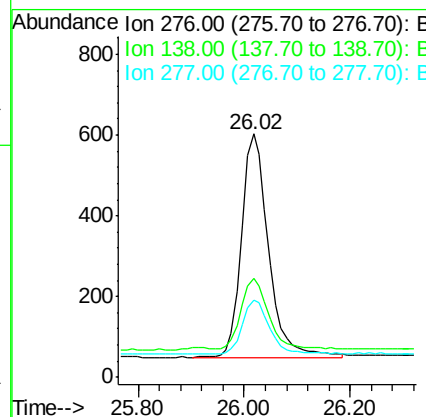
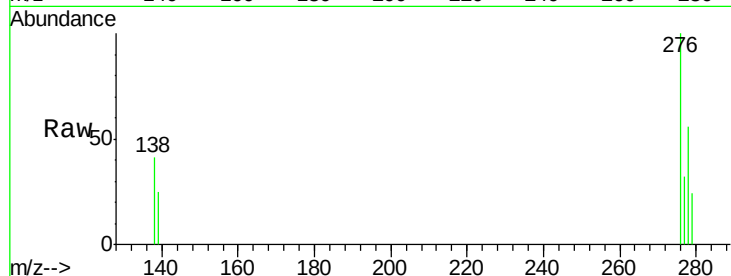
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.05 ng
 RT: 26.02 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.2	25.9	38.9
277	24.2	19.8	29.6

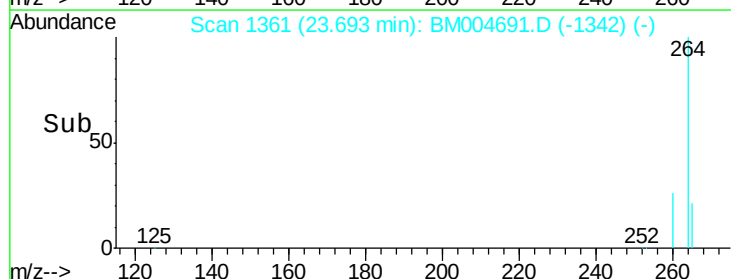
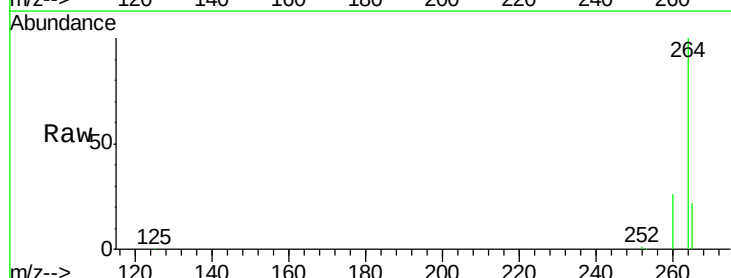
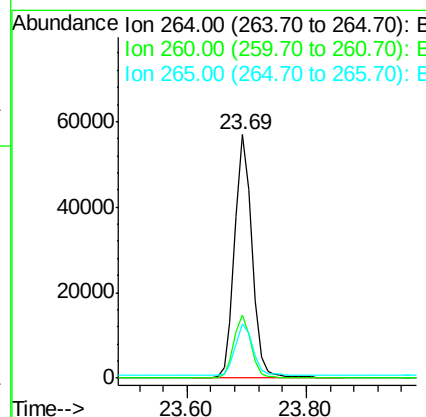
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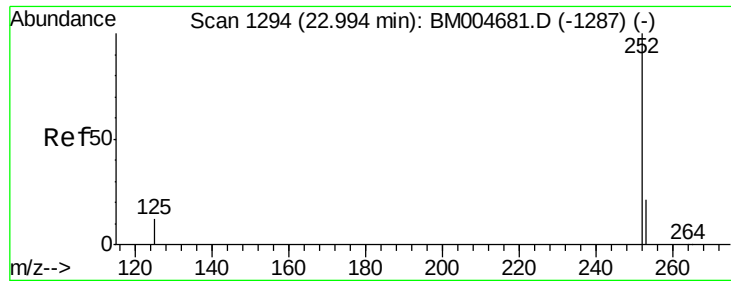
mohammad
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.69 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: BM004691.D
 Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.1	21.0	31.4
265	22.0	17.5	26.3





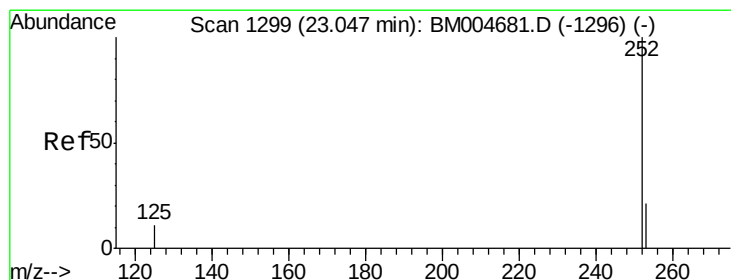
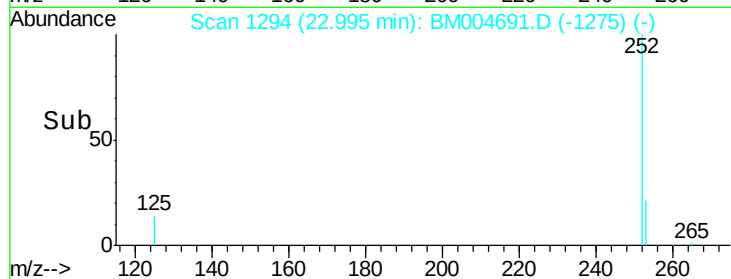
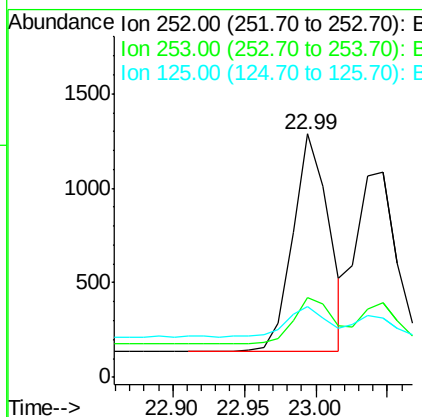
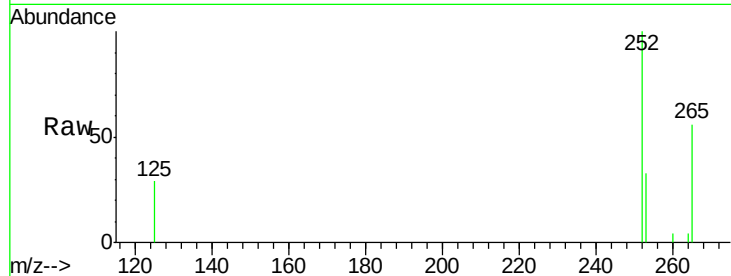
#29
Benzo(b)fluoranthene
Concen: 0.05 ng
RT: 22.99 min Scan# 1294
Delta R.T. 0.00 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Instrument :
BNA_M
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.9	17.9	26.9#
125	29.1	11.4	17.0#

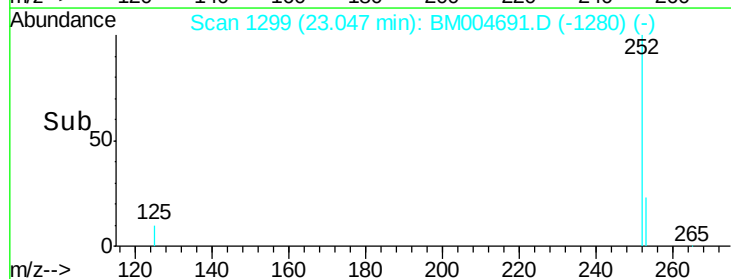
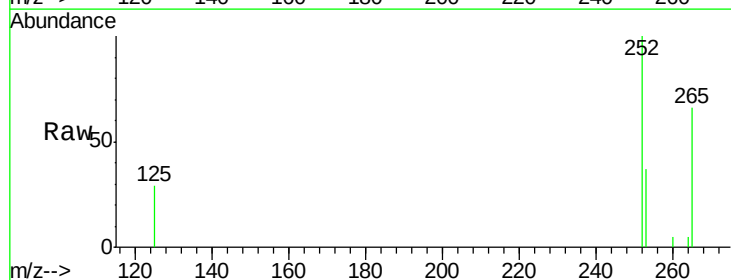
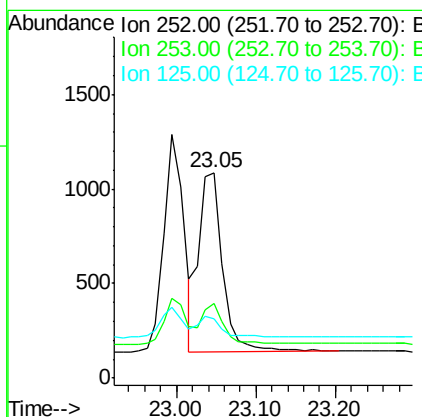
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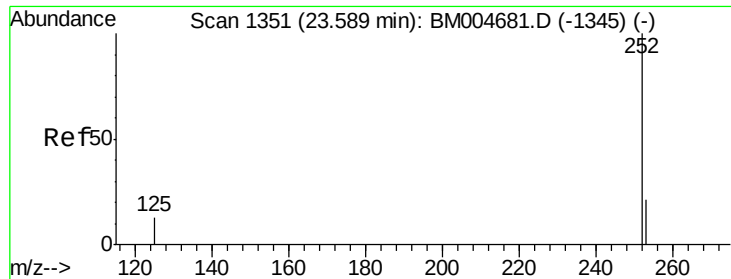
mohammad
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#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.05 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BM004691.D
Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	36.6	19.3	28.9#
125	29.0	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: BM004691.D

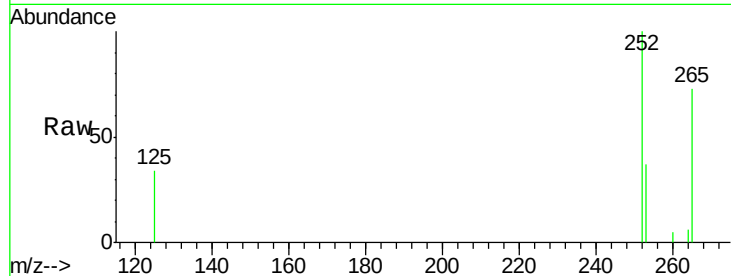
Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

ClientSampled :

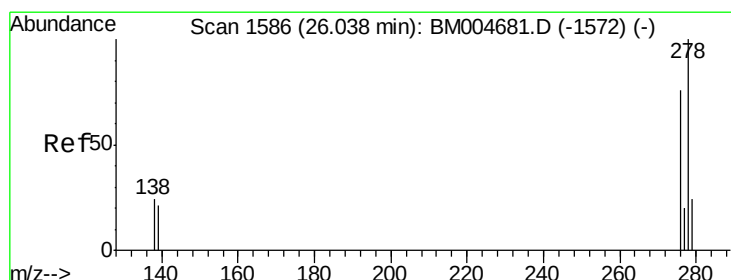
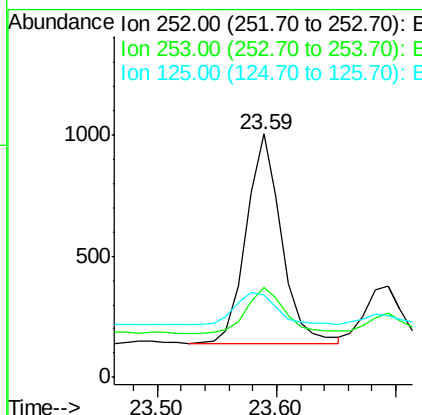
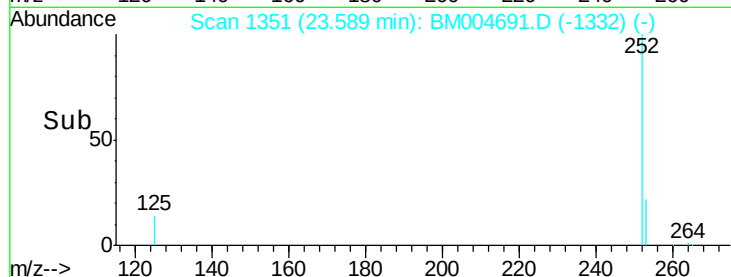
MDL-02-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	37.0	18.6	28.0#
125	33.8	12.3	18.5#

Manual Integrations
APPROVED

mohammad
3/21/2016 2:43:26 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.04 ng

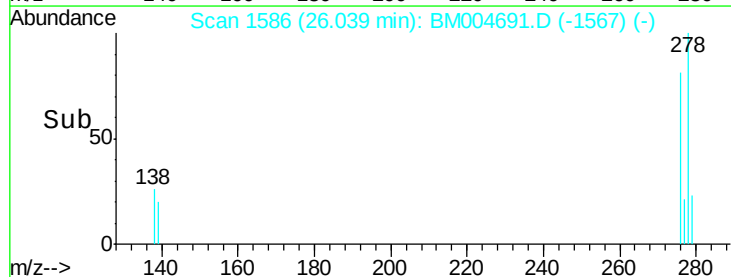
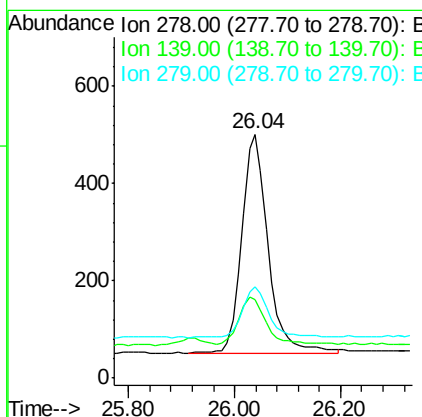
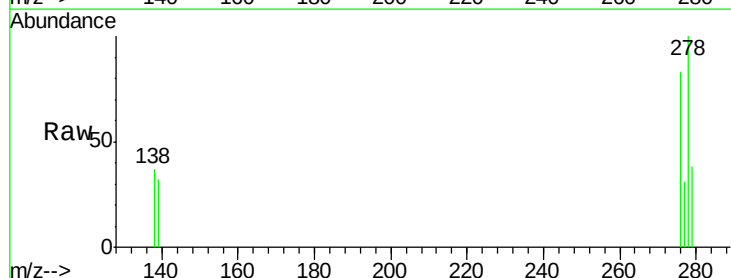
RT: 26.04 min Scan# 1586

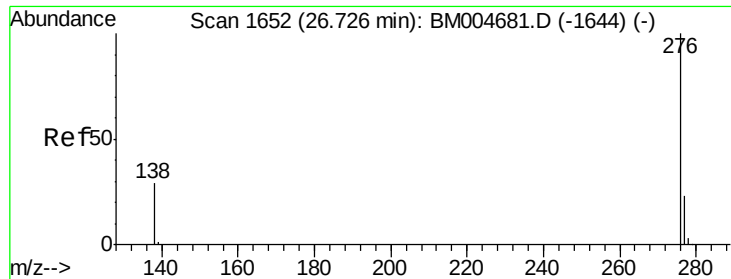
Delta R.T. 0.00 min

Lab File: BM004691.D

Acq: 18 Mar 2016 21:22

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.1	17.6	26.4#
279	37.5	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: BM004691.D

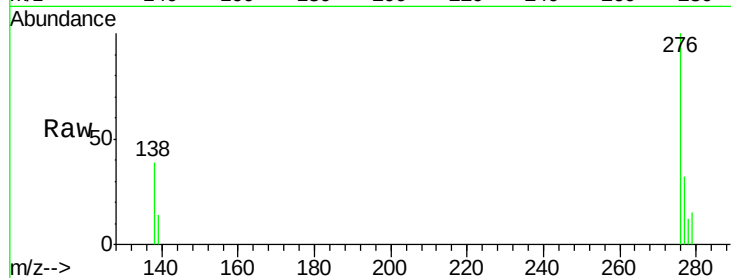
Acq: 18 Mar 2016 21:22

Instrument :

BNA_M

ClientSampleId :

MDL-02-W



Tgt Ion: 276 Resp: 1743

Ion Ratio Lower Upper

276 100

277 32.0 19.1 28.7#

138 38.9 24.5 36.7#

Manual Integrations

APPROVED

mohammad

3/21/2016 2:43:26 PM

