

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
 Data File : BM001764.D
 Acq On : 19 Jun 2015 16:26
 Operator : TP/IZ
 Sample : G2653-06
 Misc : LOQ-SIM-WATER-2PPM
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-WATER2015-02

Manual Integrations
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Quant Time: Jun 20 02:24:34 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 19 05:05:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	16558	5.00	ng	0.00
6) Naphthalene-d8	10.44	136	60653	5.00	ng	-0.02
12) Acenaphthene-d10	14.32	164	29374	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	69734	5.00	ng	0.00
25) Chrysene-d12	21.25	240	43411	5.00	ng	0.00
32) Perylene-d12	23.47	264	38916	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	38858	10.04	ng	0.00
5) Phenol-d6	6.83	99	50634	10.16	ng	0.00
7) Nitrobenzene-d5	8.83	82	30122	6.36	ng	0.00
13) 2,4,6-Tribromophenol	15.80	330	9163	9.99	ng	0.00
14) 2-Fluorobiphenyl	12.94	172	67107	6.39	ng	0.00
27) Terphenyl-d14	19.70	244	41731	6.52	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.18	88	255	0.14	ng	91
3) n-Nitrosodimethylamine	3.49	42	287	0.10	ng	# 97
8) Nitrobenzene	8.87	77	755	0.15	ng	# 90
9) Naphthalene	10.49	128	1742	0.12	ng	# 90
10) Hexachlorobutadiene	10.78	225	280	0.11	ng	96
11) 2-Methylnaphthalene	12.13	142	1098	0.12	ng	92
15) Acenaphthylene	14.03	152	1459	0.10	ng	99
16) Acenaphthene	14.37	154	991	0.11	ng	97
17) Fluorene	15.36	166	1007	0.13	ng	99
19) 4-Bromophenyl-phenylether	16.24	248	332	0.12	ng	98
20) Hexachlorobenzene	16.38	284	255	0.13	ng	# 100
21) Pentachlorophenol	16.72	266	94	0.11	ng	# 82
22) Phenanthrene	17.09	178	2772	0.12	ng	97
23) Anthracene	17.19	178	1266m	0.13	ng	
24) Fluoranthene	19.13	202	1699	0.11	ng	99
26) Pyrene	19.49	202	1738	0.11	ng	99
28) Benzo(a)anthracene	21.24	228	1688	0.13	ng	94
29) Chrysene	21.28	228	1409	0.10	ng	95
30) Bis(2-ethylhexyl)phthalate	21.16	149	975	0.13	ng	# 100
31) Indeno(1,2,3-cd)pyrene	25.71	276	1459	0.11	ng	99
33) Benzo(b)fluoranthene	22.80	252	1466	0.11	ng	# 82
34) Benzo(k)fluoranthene	22.84	252	1313	0.11	ng	# 81
35) Benzo(a)pyrene	23.38	252	1231	0.11	ng	# 75
36) Dibenzo(a,h)anthracene	25.72	278	1180	0.11	ng	# 80
37) Benzo(g,h,i)perylene	26.39	276	1310	0.12	ng	# 85

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

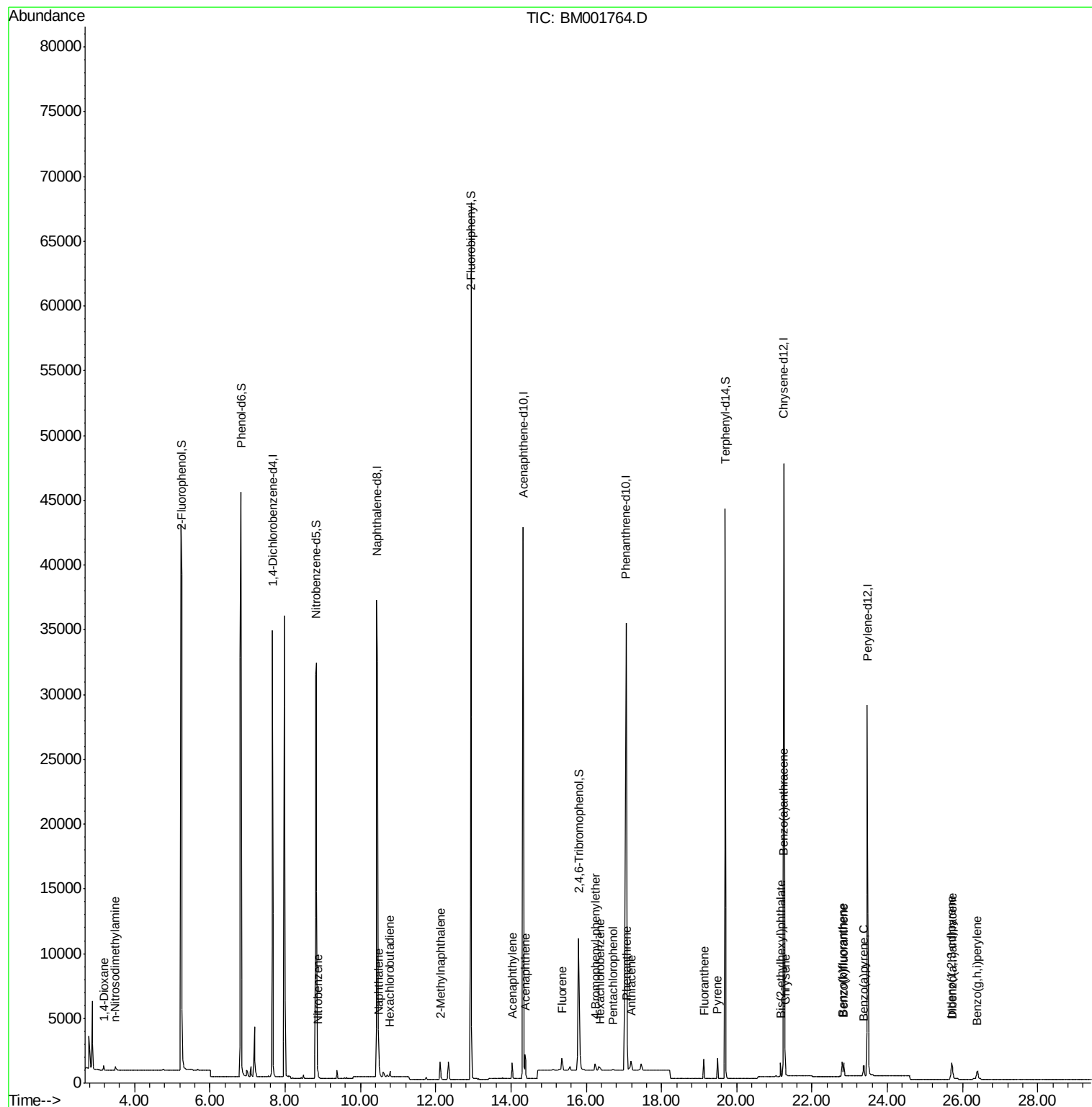
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
Data File : BM001764.D
Acq On : 19 Jun 2015 16:26
Operator : TP/IZ
Sample : G2653-06
Misc : LOQ-SIM-WATER-2PPM
ALS Vial : 24 Sample Multiplier: 1

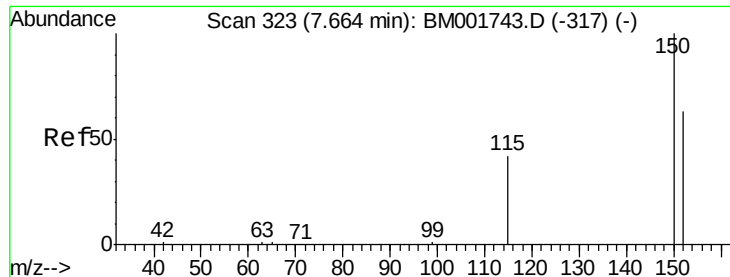
Instrument :
BNA_M
ClientSampleId :
LOQ-WATER2015-02

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Quant Time: Jun 20 02:24:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061915.M
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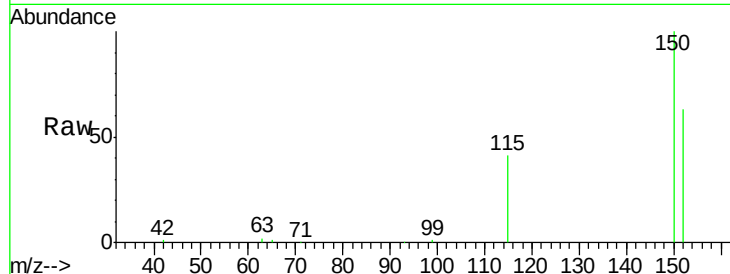




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.66 min Scan# 323
Delta R.T. 0.00 min
Lab File: BM001764.D
Acq: 19 Jun 2015 16:26

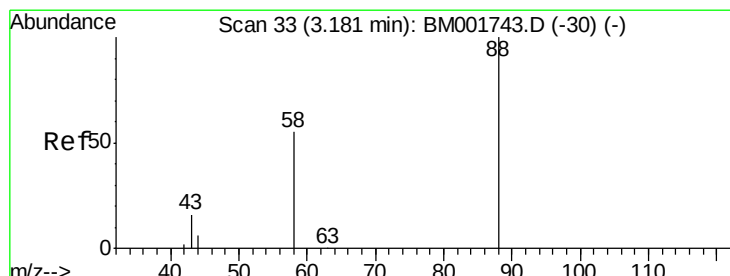
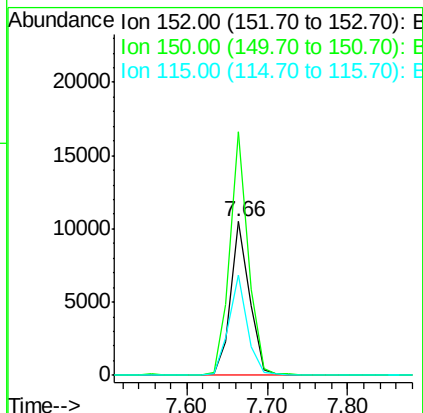
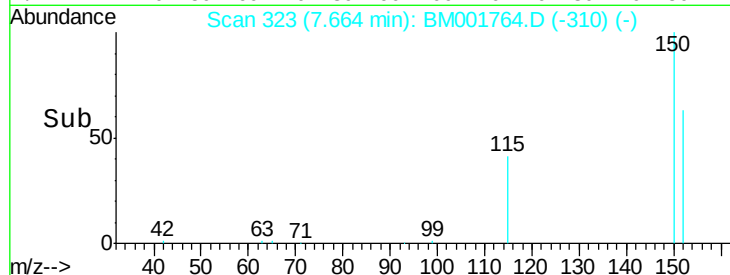
Instrument :
BNA_M
ClientSampleId :
LOQ-WATER2015-02



Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.5	127.5	191.3
115	65.6	53.2	79.8

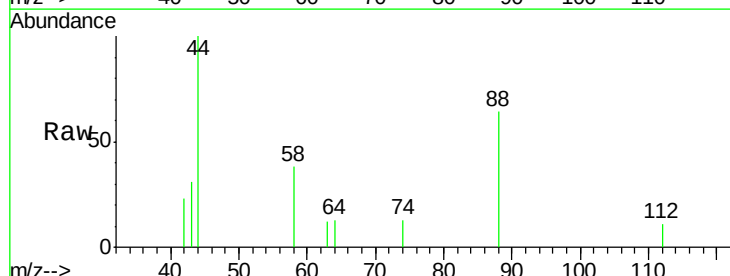
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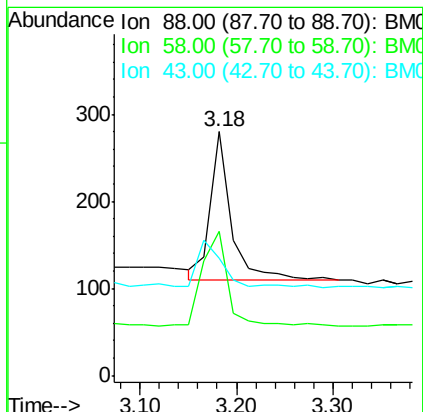
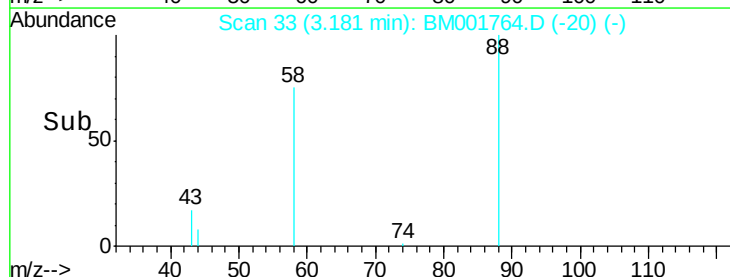


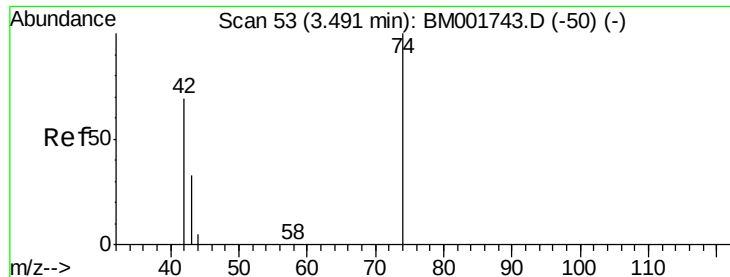
#2

1,4-Dioxane
Concen: 0.14 ng
RT: 3.18 min Scan# 33
Delta R.T. 0.00 min
Lab File: BM001764.D
Acq: 19 Jun 2015 16:26



Tgt Ion	Ratio	Lower	Upper
88	100		
58	78.0	68.3	102.5
43	32.9	32.6	48.8





#3

n-Nitrosodimethylamine

Concen: 0.10 ng

RT: 3.49 min Scan# 53

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

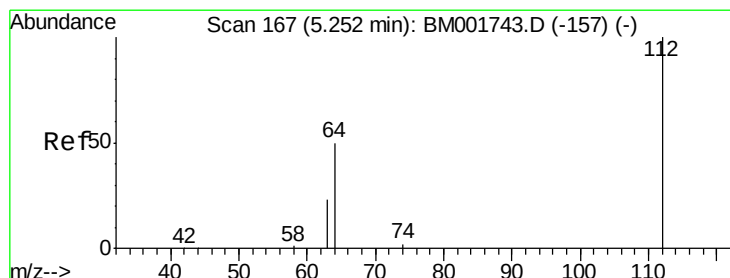
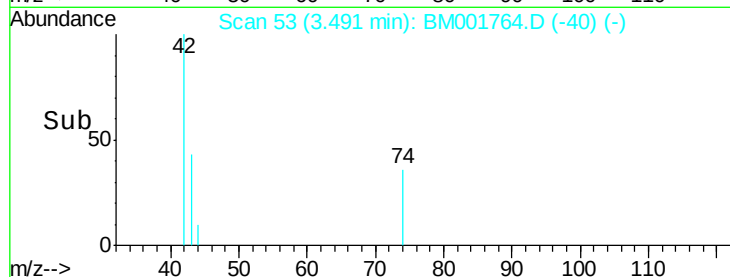
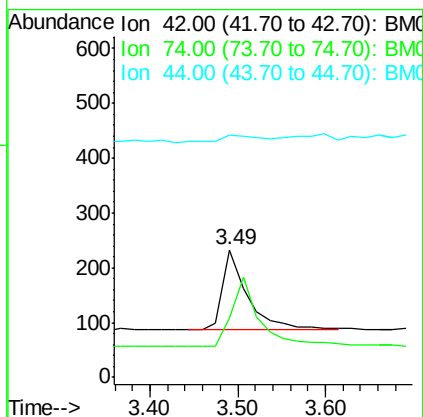
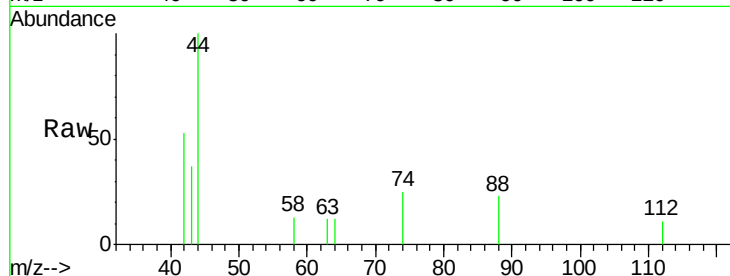
ClientSampleId :

LOQ-WATER2015-02

Tgt Ion:	42	Resp:	287
Ion Ratio	Lower	Upper	
42	100		
74	96.5	78.6	118.0
44	11.5	5.0	7.6#

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#4

2-Fluorophenol

Concen: 10.04 ng

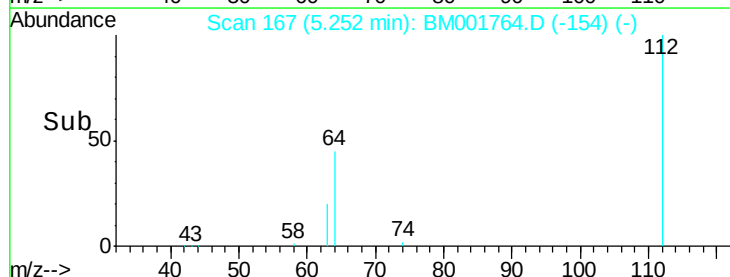
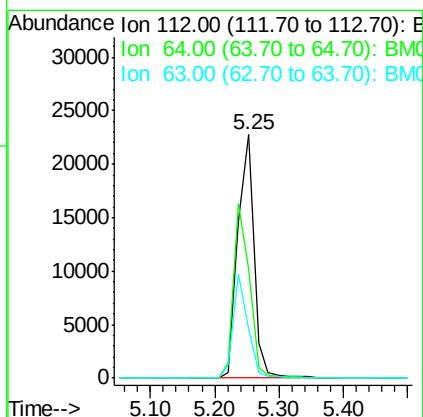
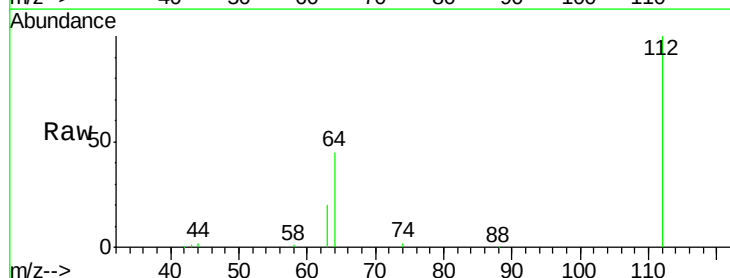
RT: 5.25 min Scan# 167

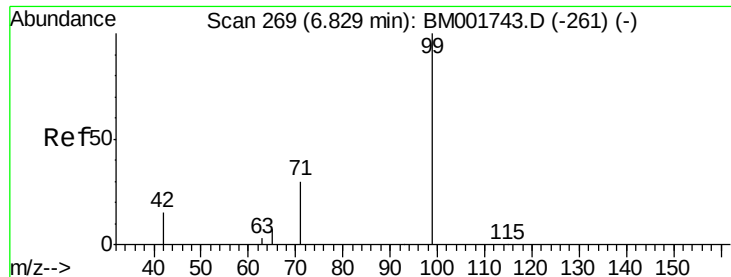
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	112	Resp:	38858
Ion Ratio	Lower	Upper	
112	100		
64	70.0	55.6	83.4
63	38.3	30.2	45.2





#5

Phenol-d6

Concen: 10.16 ng

RT: 6.83 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

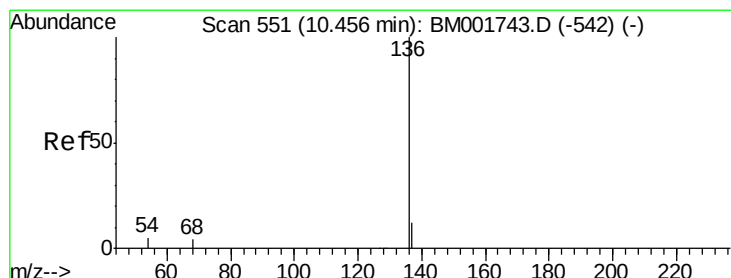
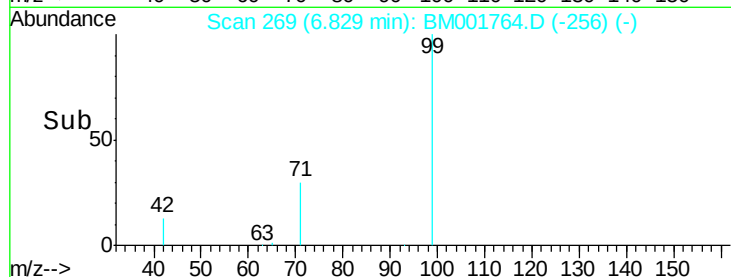
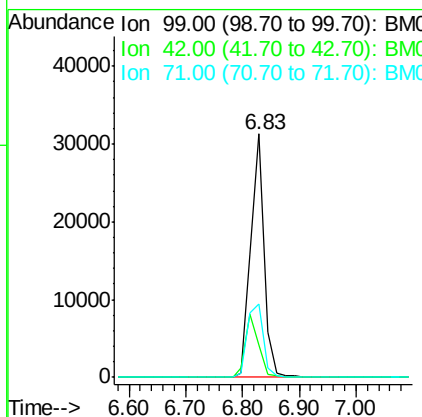
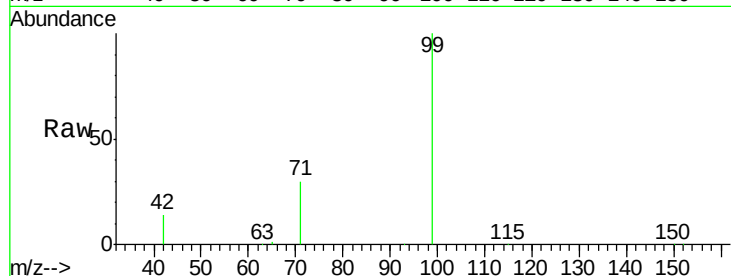
ClientSampleId :

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Tgt Ion:	99	Resp:	50634
Ion Ratio	Lower	Upper	
99	100		
42	25.5	21.4	32.0
71	35.9	28.3	42.5

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#6

Naphthalene-d8

Concen: 5.00 ng

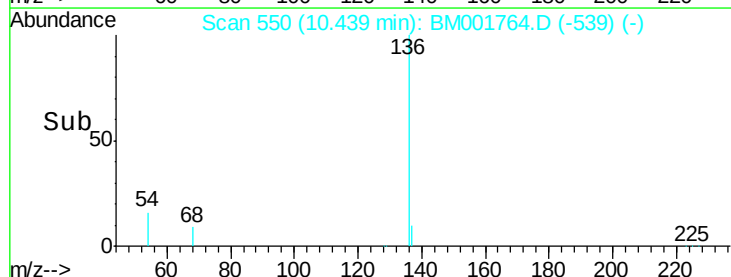
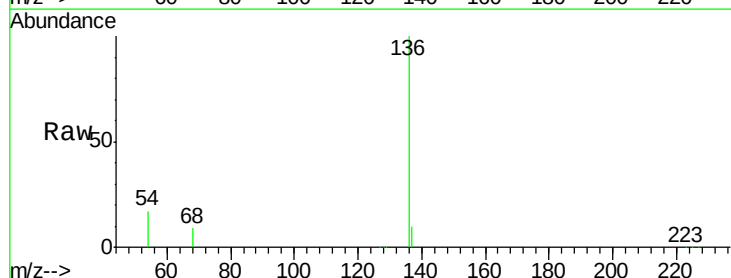
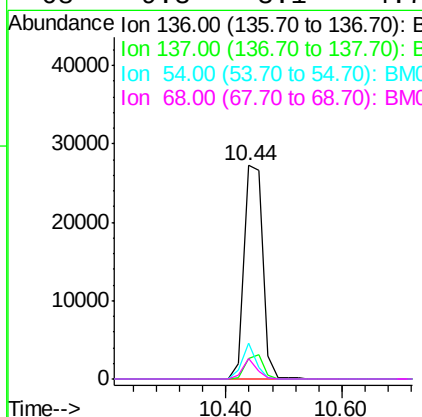
RT: 10.44 min Scan# 550

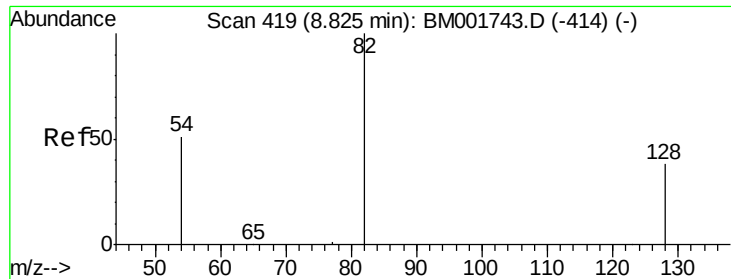
Delta R.T. -0.02 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	136	Resp:	60653
Ion Ratio	Lower	Upper	
136	100		
137	9.9	9.4	14.0
54	16.6	4.4	6.6#
68	9.3	3.1	4.7#





#7

Nitrobenzene-d5

Concen: 6.36 ng

RT: 8.83 min Scan# 419

Delta R.T. 0.00 min

Lab File: BM001764.D

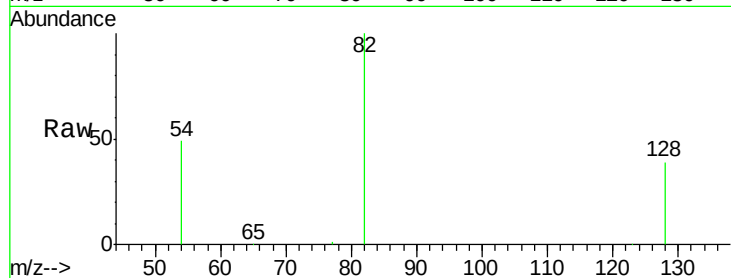
Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

ClientSampleId :

LOQ-WATER2015-02



Tgt Ion: 82 Resp: 30122

Ion Ratio Lower Upper

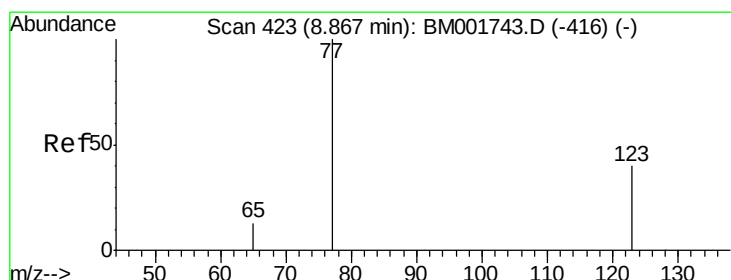
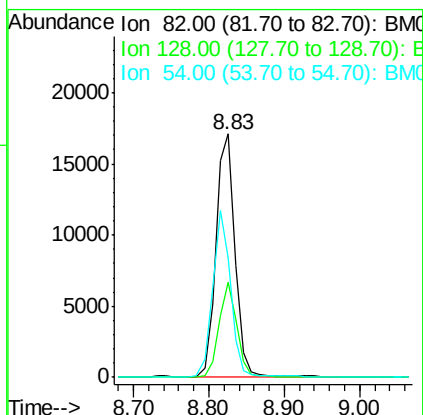
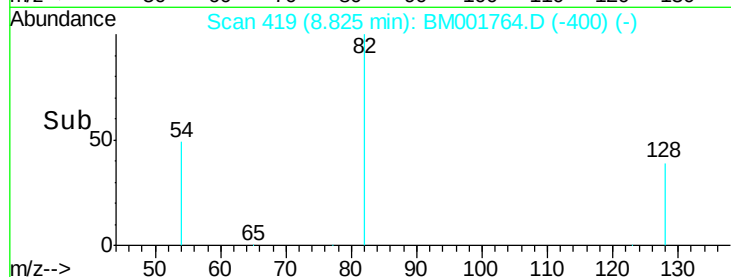
82 100

128 39.1 31.3 46.9

54 49.2 41.9 62.9

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#8

Nitrobenzene

Concen: 0.15 ng

RT: 8.87 min Scan# 423

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

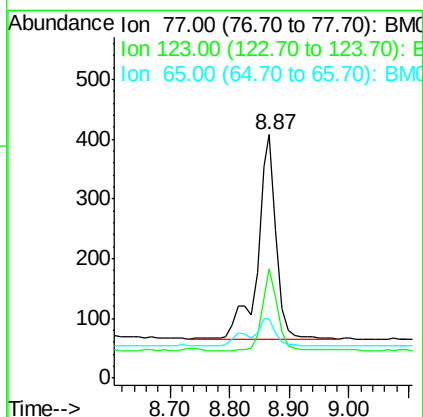
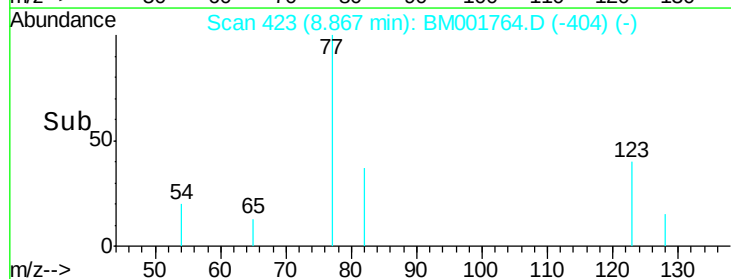
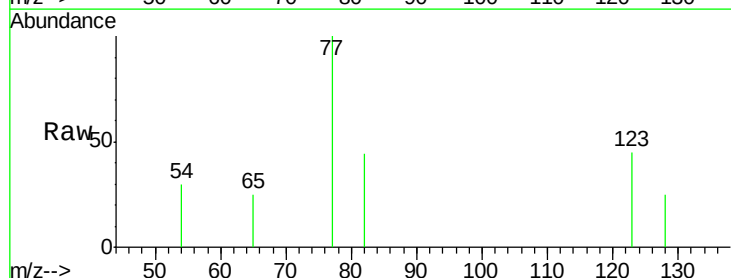
Tgt Ion: 77 Resp: 755

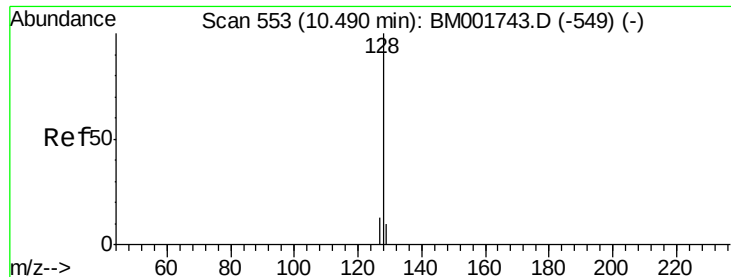
Ion Ratio Lower Upper

77 100

123 32.1 30.1 45.1

65 18.3 11.3 16.9#





#9

Naphthalene

Concen: 0.12 ng

RT: 10.49 min Scan# 553

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

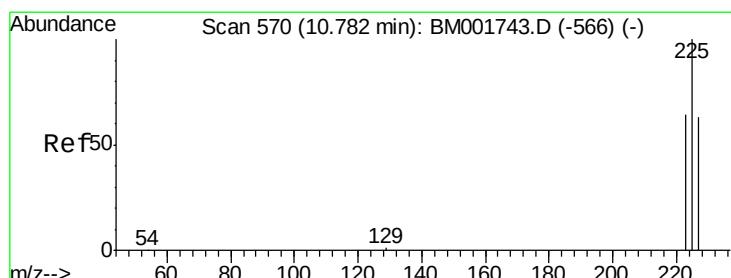
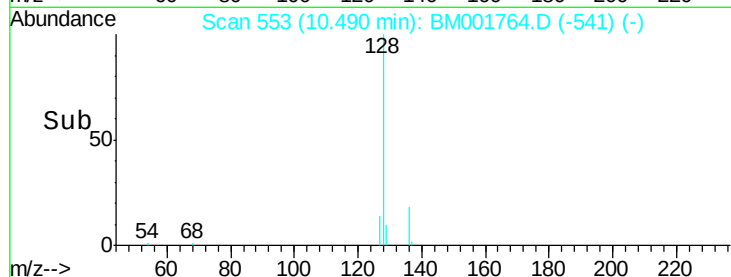
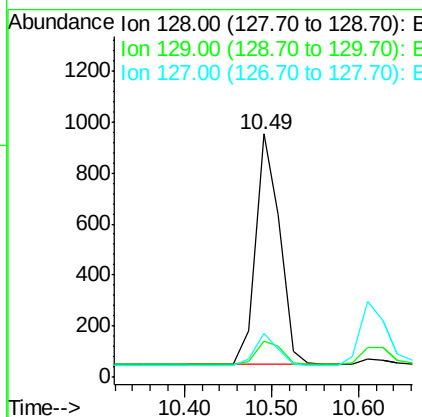
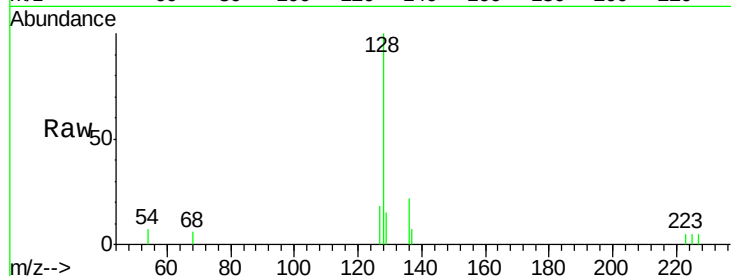
ClientSampleId :

LOQ-WATER2015-02

Tgt Ion:	128	Resp:	1742
Ion Ratio	Lower	Upper	
128	100		
129	15.0	8.7	13.1#
127	18.2	11.2	16.8#

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#10

Hexachlorobutadiene

Concen: 0.11 ng

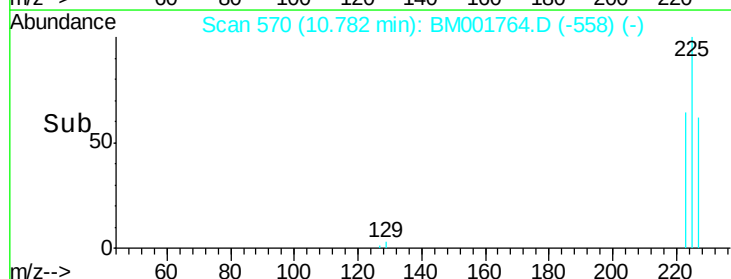
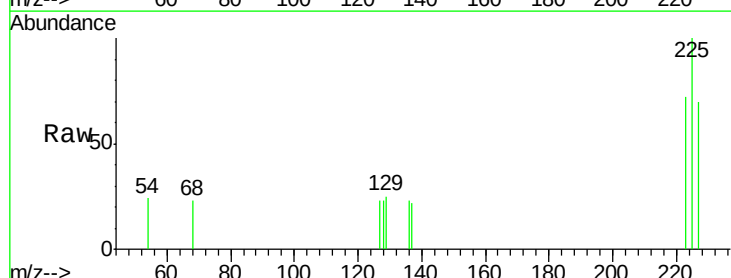
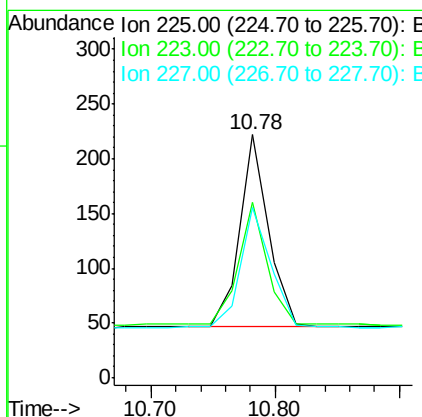
RT: 10.78 min Scan# 570

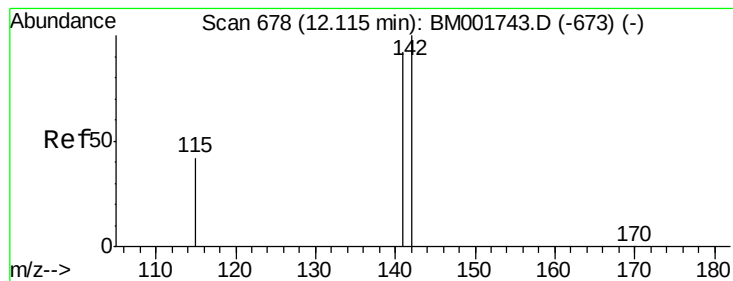
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	225	Resp:	280
Ion Ratio	Lower	Upper	
225	100		
223	66.8	51.0	76.4
227	67.5	51.8	77.8





#11

2-Methylnaphthalene

Concen: 0.12 ng

RT: 12.13 min Scan# 679

Delta R.T. 0.01 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

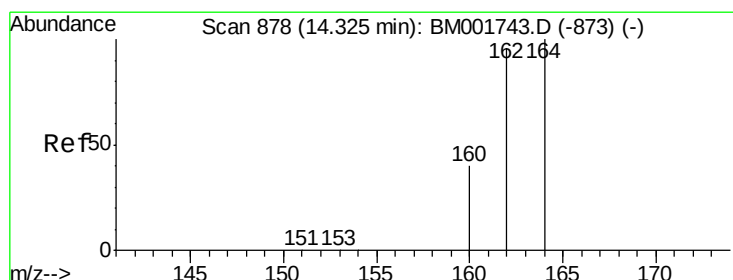
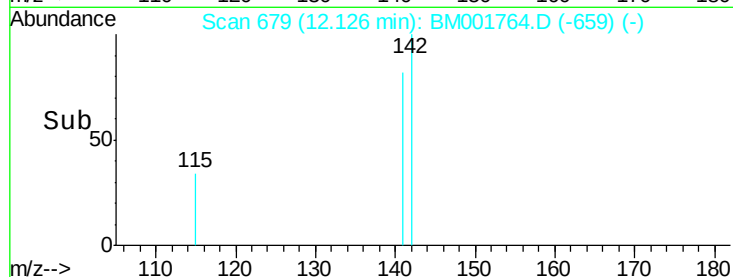
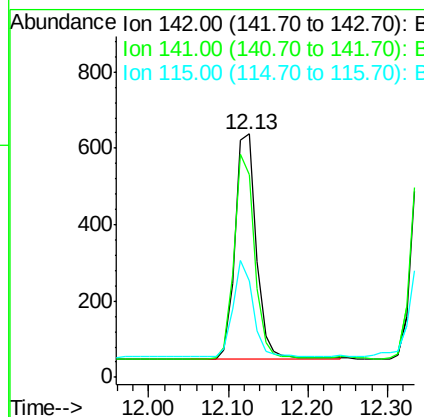
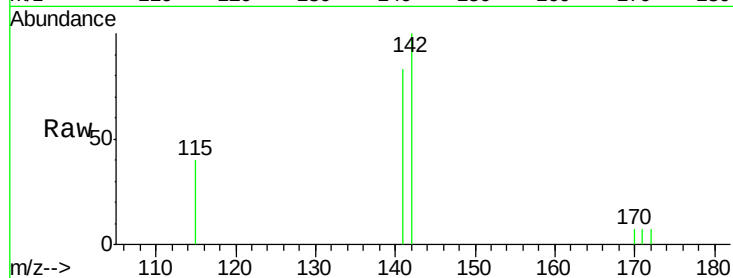
ClientSampleId :

LOQ-WATER2015-02

Tgt Ion:	142	Resp:	1098
Ion Ratio	Lower	Upper	
142	100		
141	83.4	73.6	110.4
115	39.8	34.1	51.1

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#12

Acenaphthene-d10

Concen: 5.00 ng

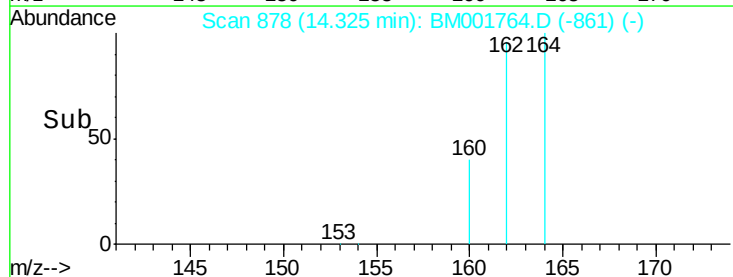
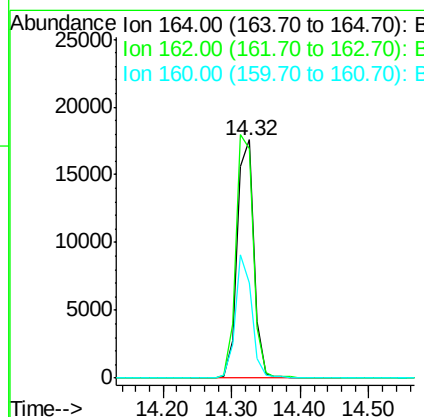
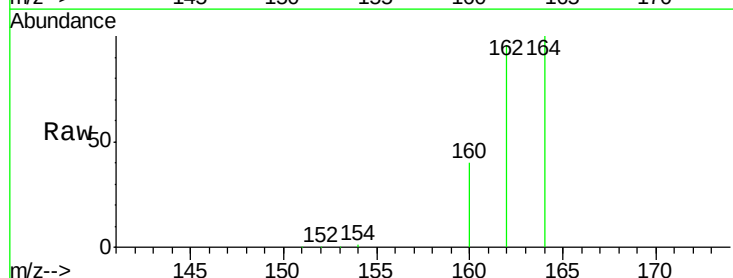
RT: 14.32 min Scan# 878

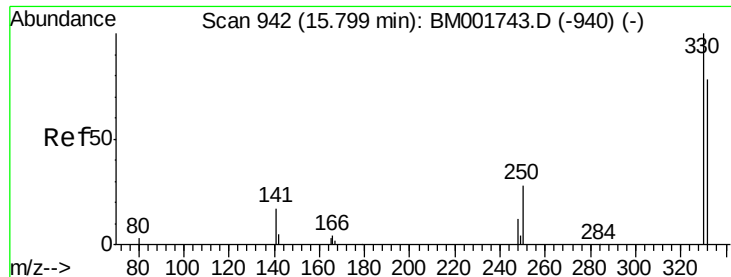
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	164	Resp:	29374
Ion Ratio	Lower	Upper	
164	100		
162	96.4	76.6	114.8
160	40.0	31.8	47.8





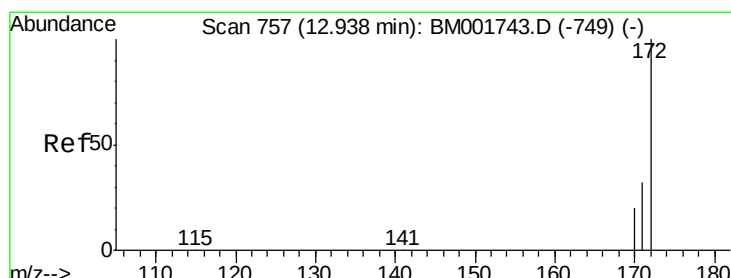
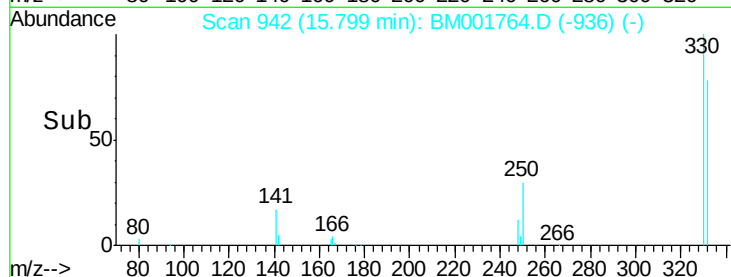
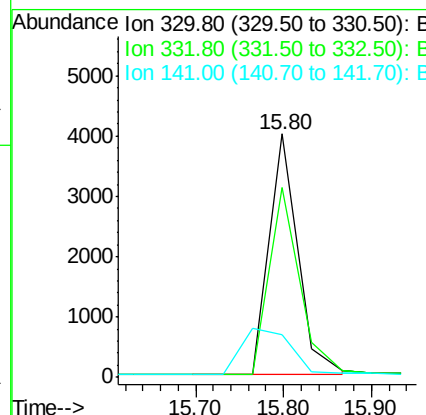
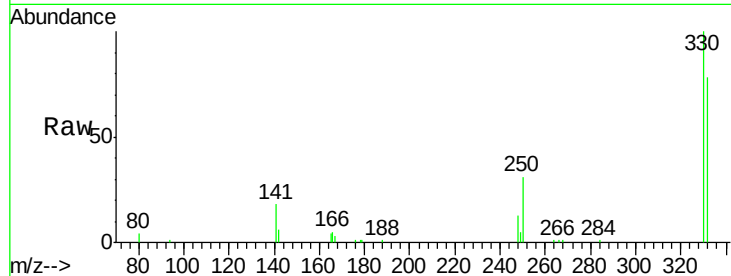
#13
 2,4,6-Tribromophenol
 Concen: 9.99 ng
 RT: 15.80 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-WATER2015-02

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	9163		
332	82.3	65.8	98.8	
141	0.0	0.0	0.0	

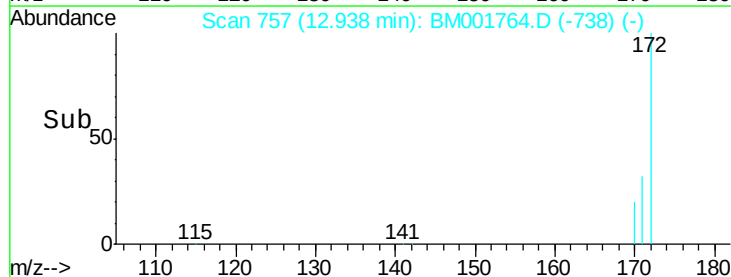
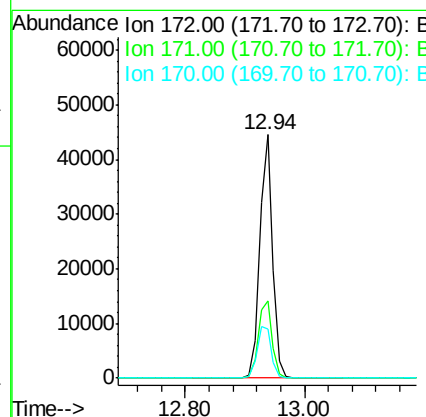
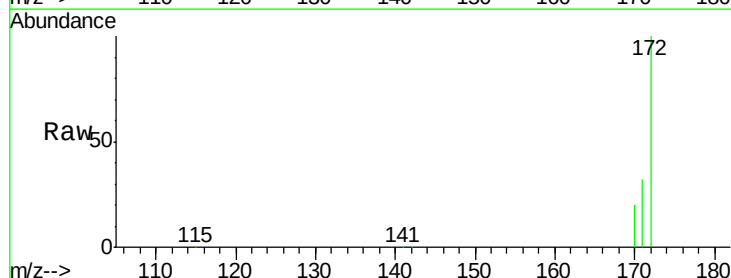
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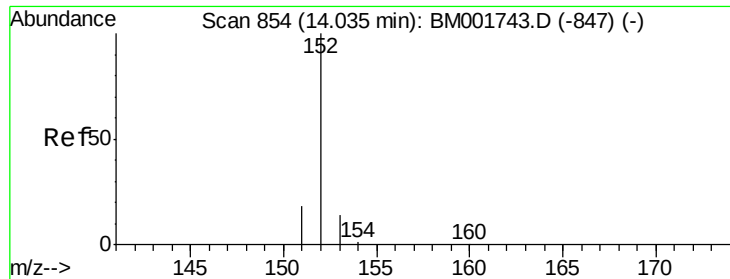
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#14
 2-Fluorobiphenyl
 Concen: 6.39 ng
 RT: 12.94 min Scan# 757
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	67107		
171	31.9	26.2	39.2	
170	20.0	16.6	24.8	





#15

Acenaphthylene

Concen: 0.10 ng

RT: 14.03 min Scan# 854

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

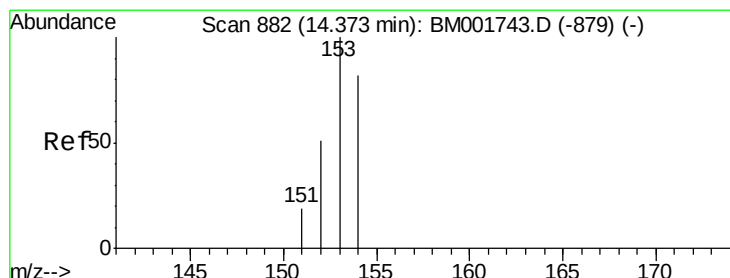
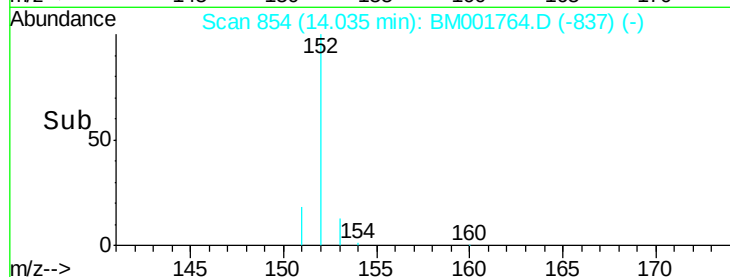
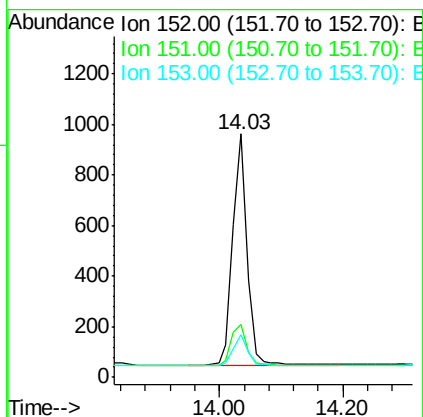
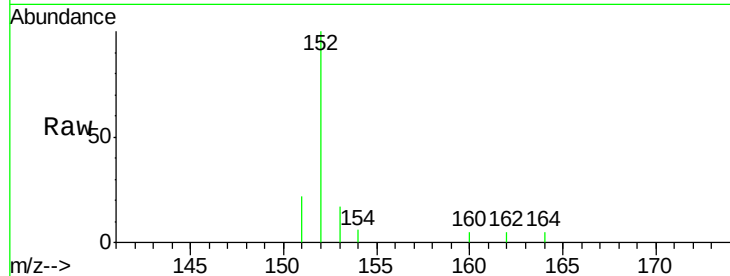
ClientSampleId :

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Tgt Ion:	152	Resp:	1459
Ion Ratio	Lower	Upper	
152	100		
151	18.8	15.4	23.2
153	13.1	10.4	15.6

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#16

Acenaphthene

Concen: 0.11 ng

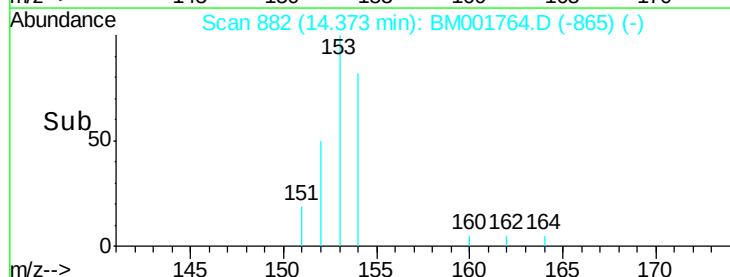
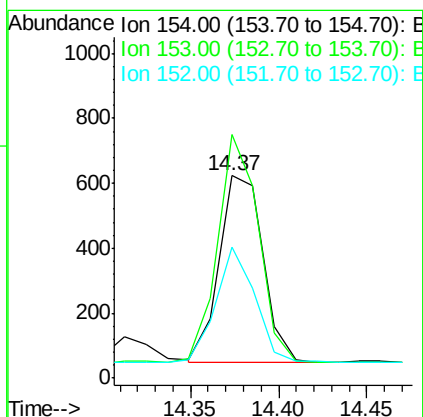
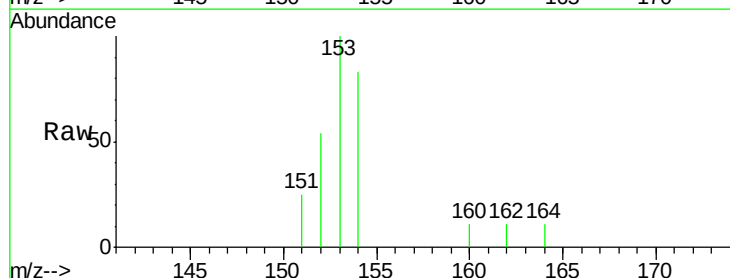
RT: 14.37 min Scan# 882

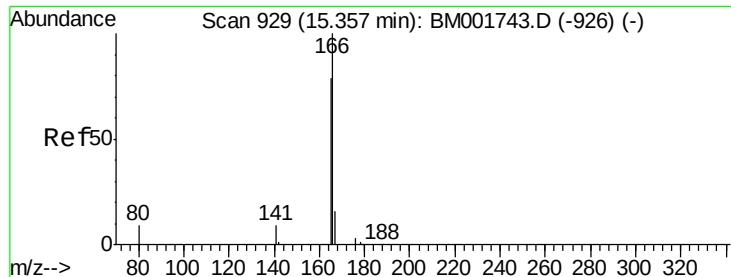
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	154	Resp:	991
Ion Ratio	Lower	Upper	
154	100		
153	116.2	90.0	135.0
152	55.7	44.2	66.4





#17

Fluorene

Concen: 0.13 ng

RT: 15.36 min Scan# 929

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

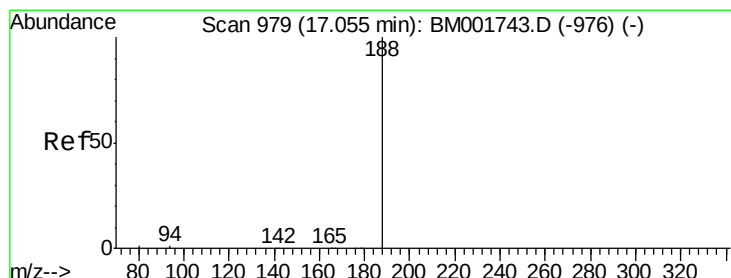
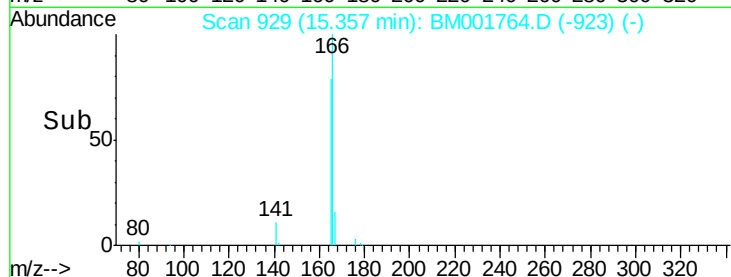
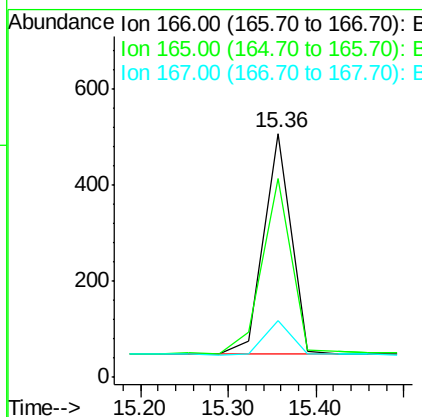
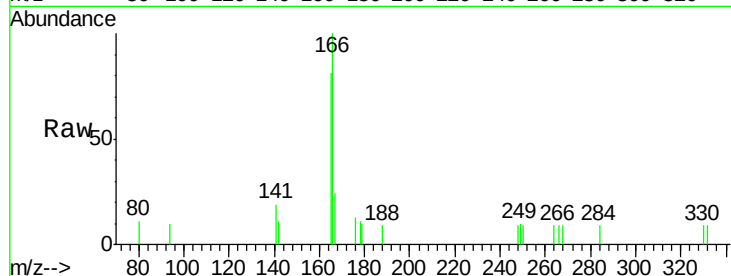
ClientSampleId :

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Tgt Ion:	166	Resp:	1007
Ion Ratio	Lower	Upper	
166	100		
165	84.0	68.2	102.2
167	15.4	12.2	18.2

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#18

Phenanthrene-d10

Concen: 5.00 ng

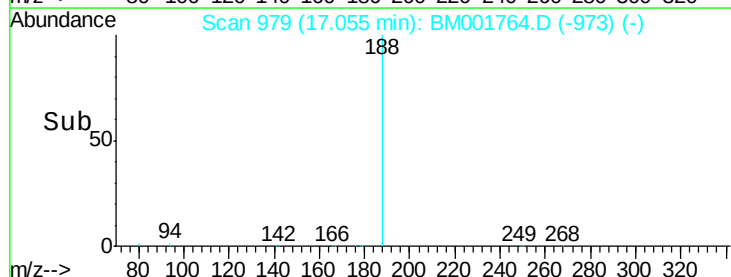
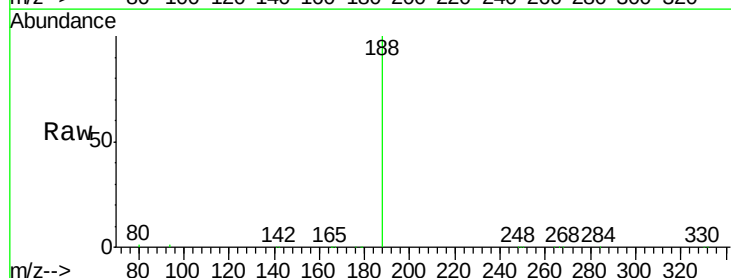
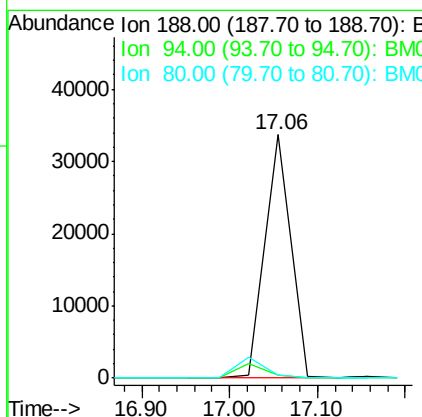
RT: 17.06 min Scan# 979

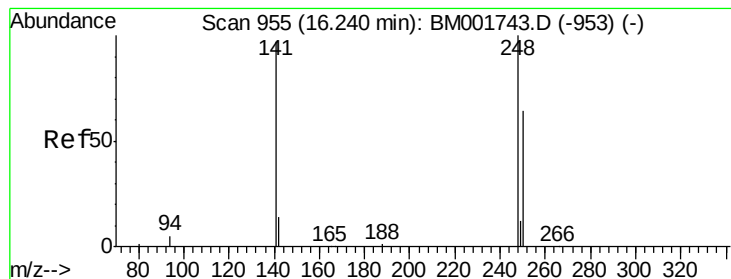
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	188	Resp:	69734
Ion Ratio	Lower	Upper	
188	100		
94	1.4	1.3	1.9
80	1.2	1.0	1.6





#19

4-Bromophenyl-phenylether

Concen: 0.12 ng

RT: 16.24 min Scan# 955

Delta R.T. 0.00 min

Lab File: BM001764.D

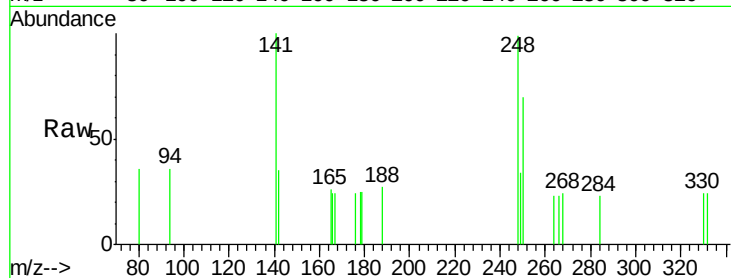
Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

ClientSampleId :

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Tgt Ion: 248 Resp: 332

Ion Ratio Lower Upper

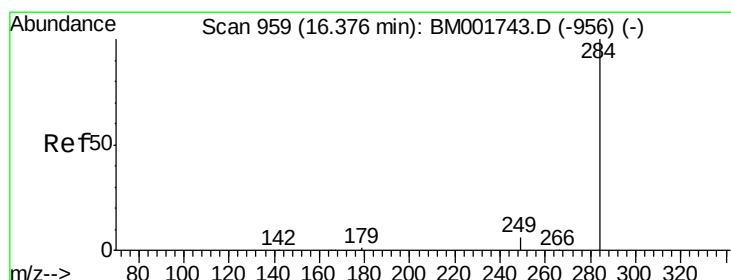
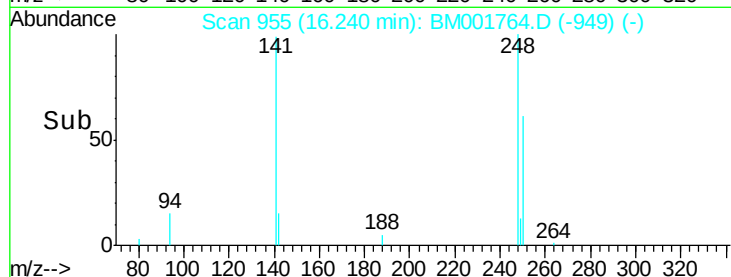
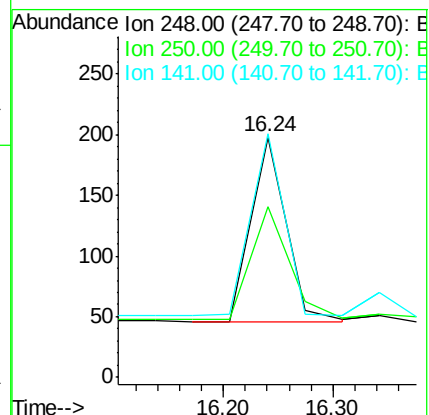
248 100

250 66.9 54.8 82.2

141 93.4 76.2 114.4

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#20

Hexachlorobenzene

Concen: 0.13 ng

RT: 16.38 min Scan# 959

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

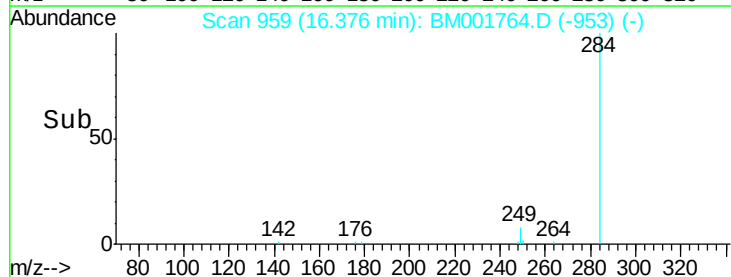
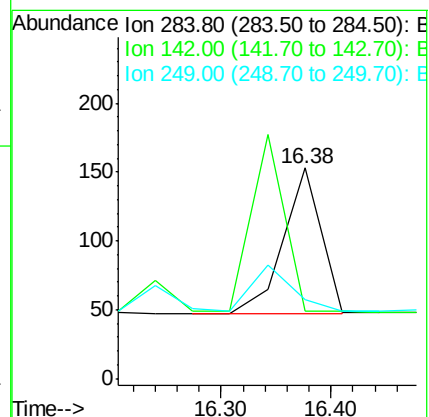
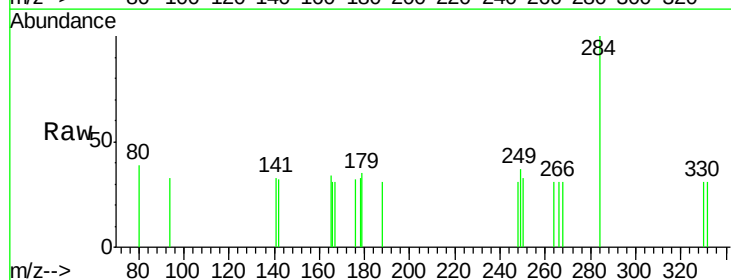
Tgt Ion: 284 Resp: 255

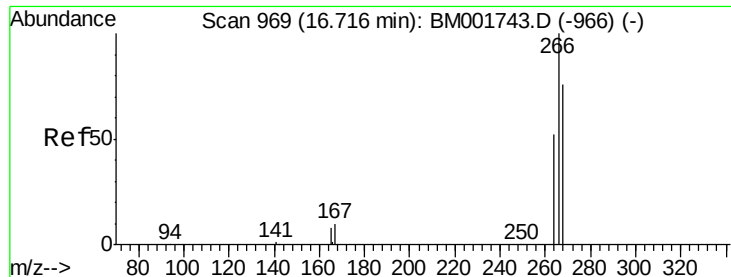
Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

249 0.0 0.0 0.0





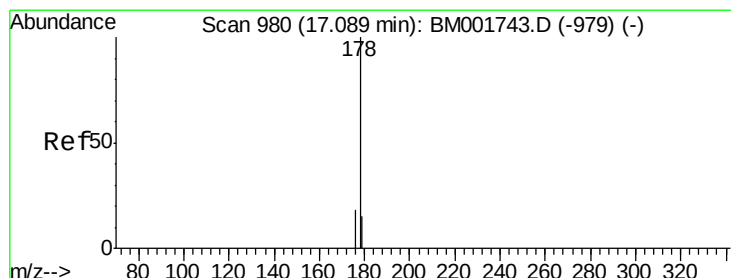
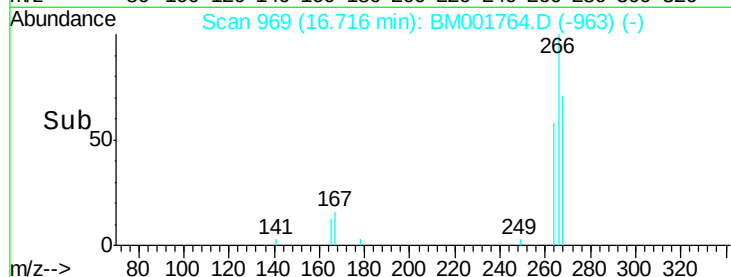
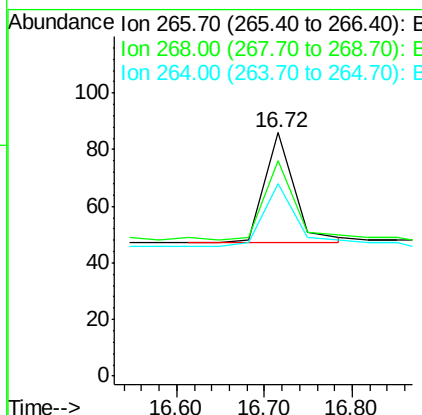
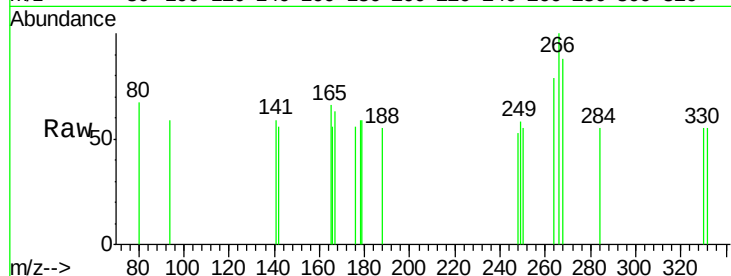
#21
 Pentachlorophenol
 Concen: 0.11 ng
 RT: 16.72 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-WATER2015-02

Tgt Ion	Ratio	Lower	Upper
266	100		
268	88.4	63.2	94.8
264	79.1	46.2	69.2

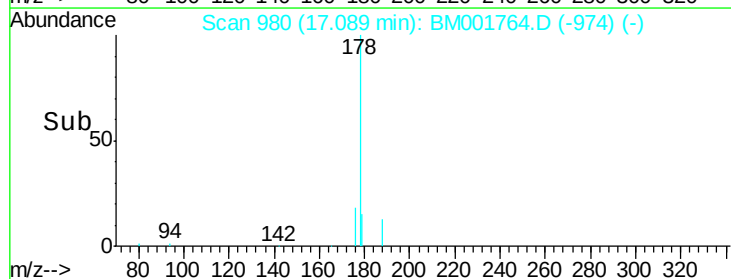
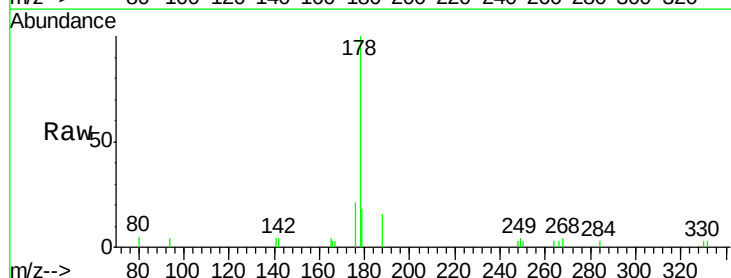
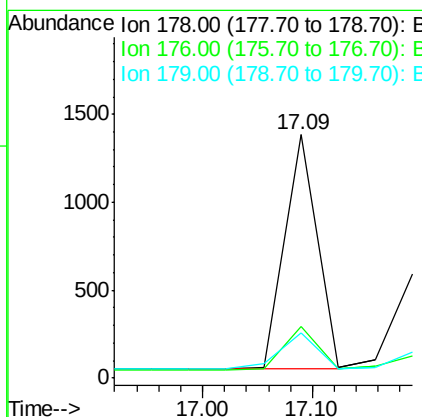
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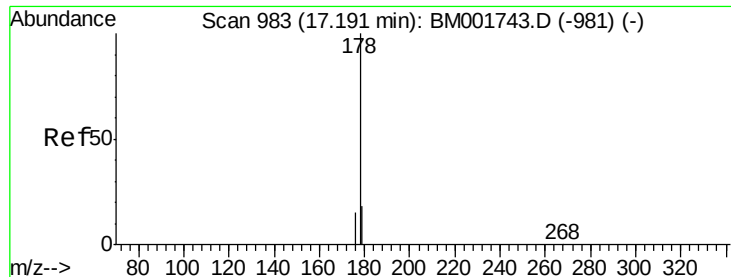
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#22
 Phenanthrene
 Concen: 0.12 ng
 RT: 17.09 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	17.2	12.6	19.0





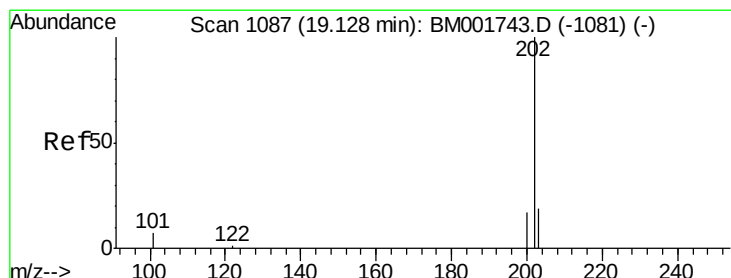
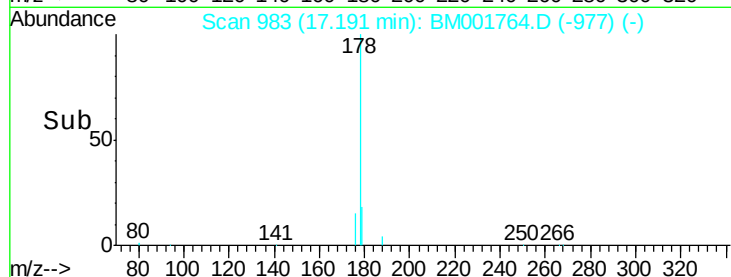
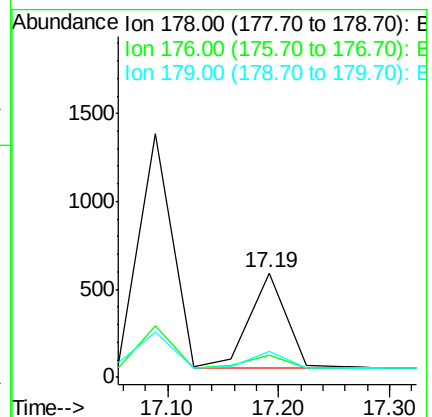
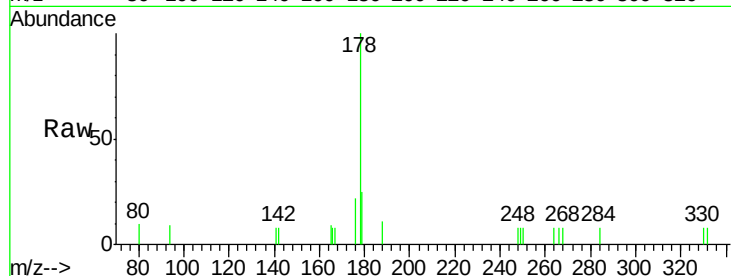
#23
 Anthracene
 Concen: 0.13 ng m
 RT: 17.19 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Instrument :
 BNA_M
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
178	100		
176	12.7	10.0	15.0
179	16.0	12.3	18.5

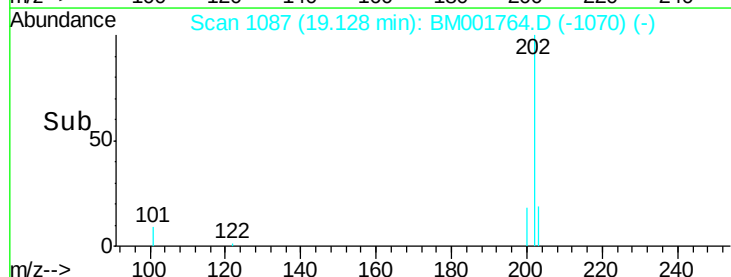
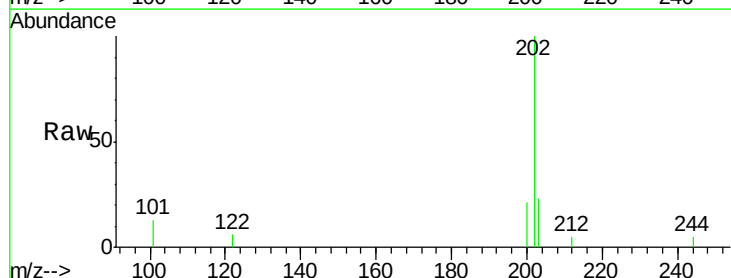
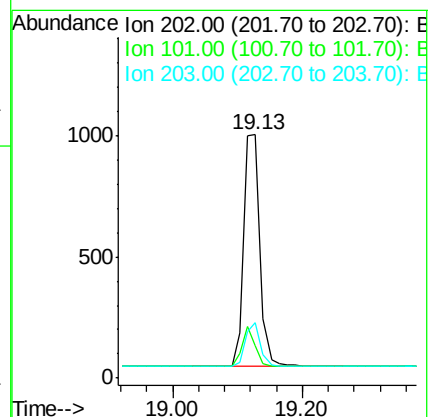
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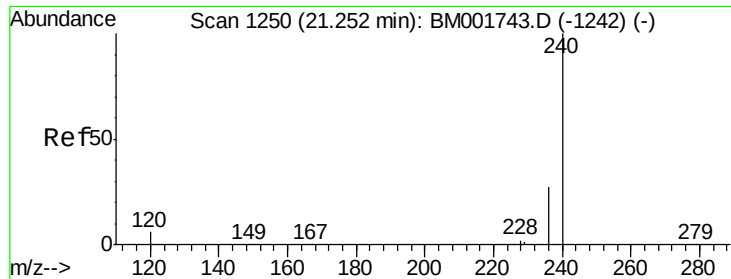
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#24
 Fluoranthene
 Concen: 0.11 ng
 RT: 19.13 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.4	10.8	16.2
203	17.3	13.8	20.6





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.25 min Scan# 1250

Delta R.T. 0.00 min

Lab File: BM001764.D

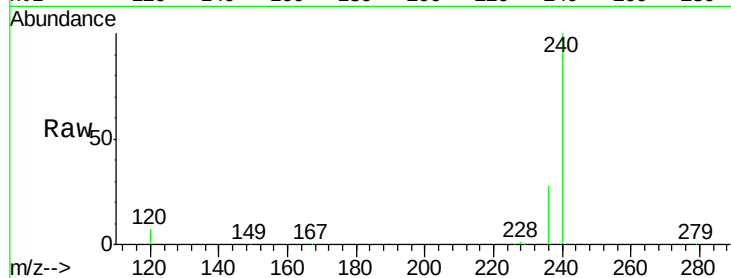
Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

ClientSampleId :

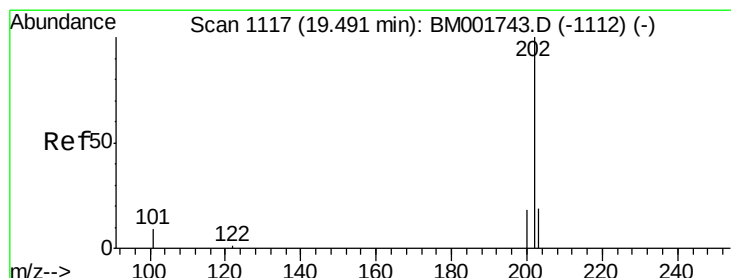
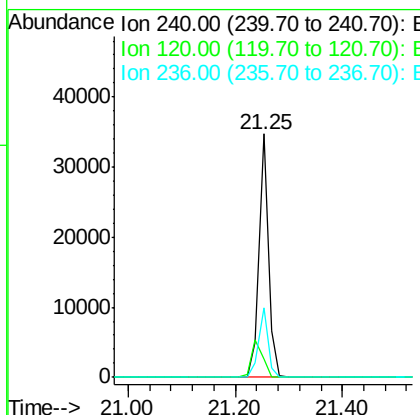
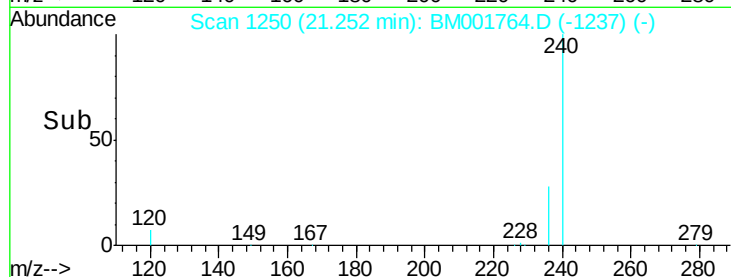
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Tgt Ion:	240	Resp:	43411
Ion Ratio	Lower	Upper	
240	100		
120	7.4	4.7	7.1#
236	28.3	21.6	32.4

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#26

Pyrene

Concen: 0.11 ng

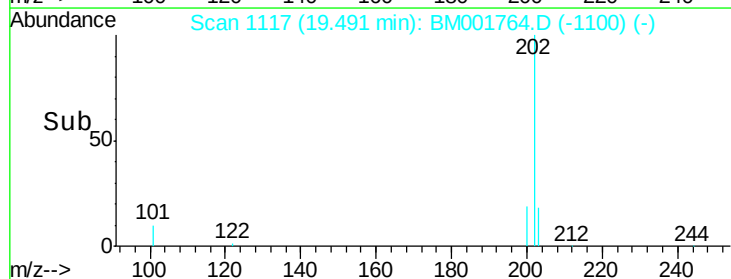
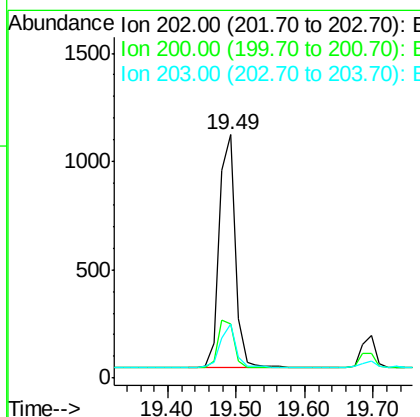
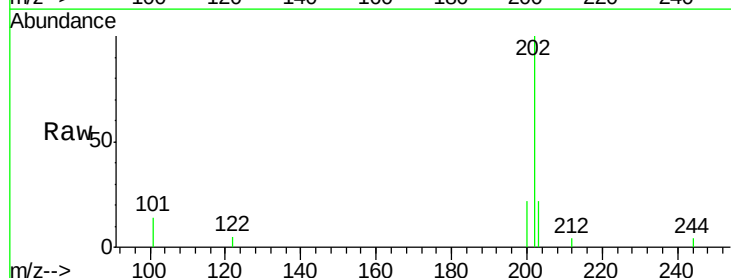
RT: 19.49 min Scan# 1117

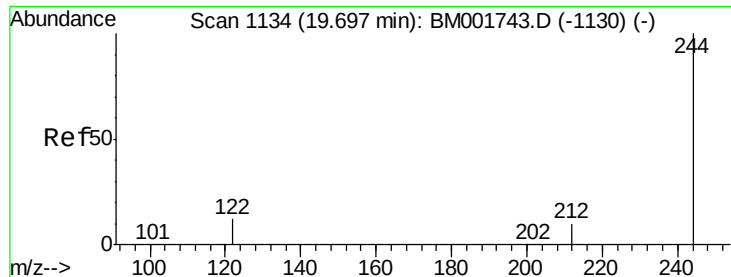
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion:	202	Resp:	1738
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.6	24.8
203	18.2	13.9	20.9





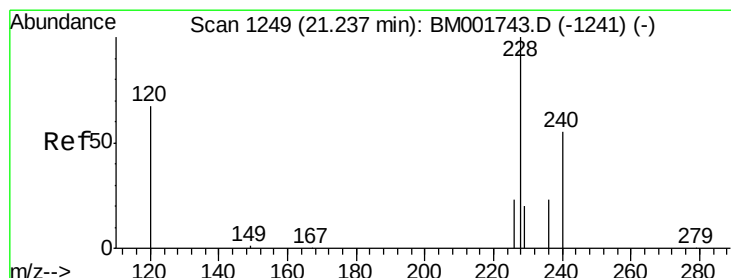
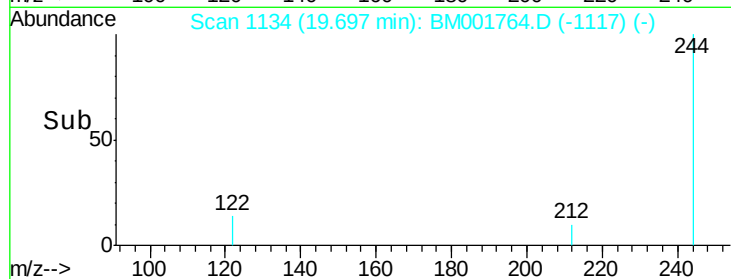
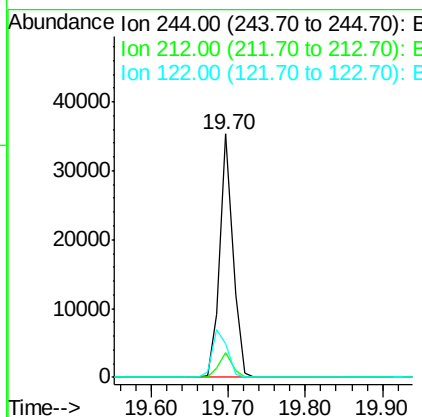
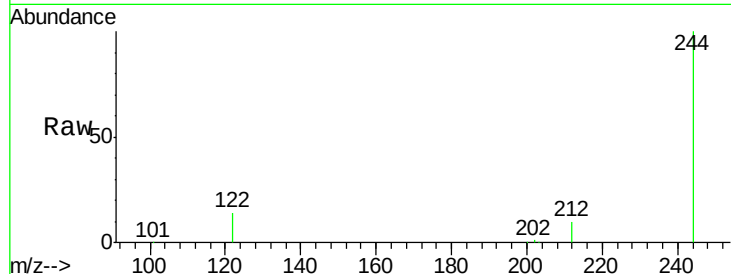
#27
 Terphenyl-d14
 Concen: 6.52 ng
 RT: 19.70 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Instrument :
 BNA_M
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.6	13.0
122	13.9	10.6	15.8

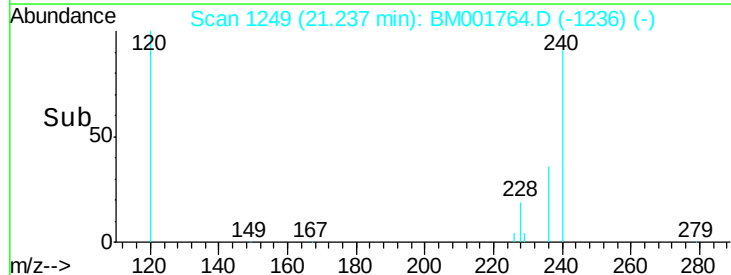
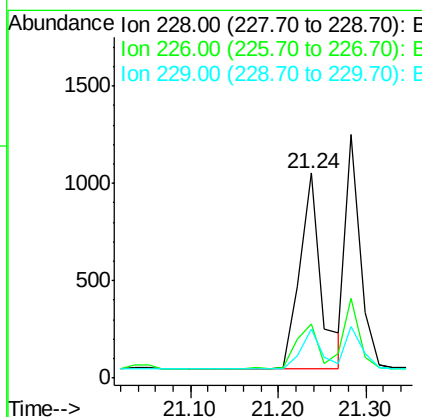
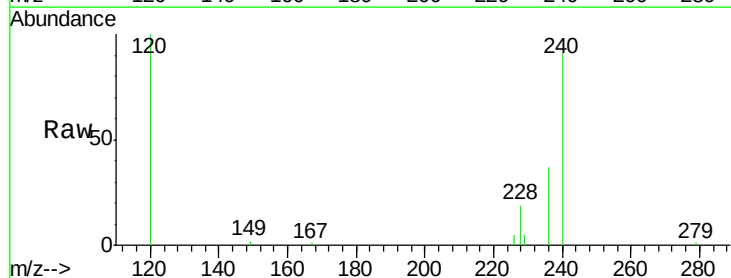
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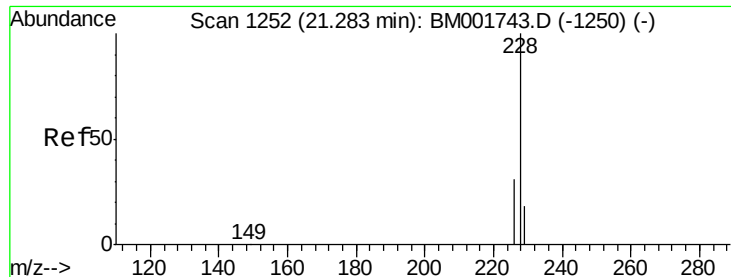
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#28
 Benzo(a)anthracene
 Concen: 0.13 ng
 RT: 21.24 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	18.9	28.3
229	23.9	16.6	25.0





#29

Chrysene

Concen: 0.10 ng

RT: 21.28 min Scan# 1252

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

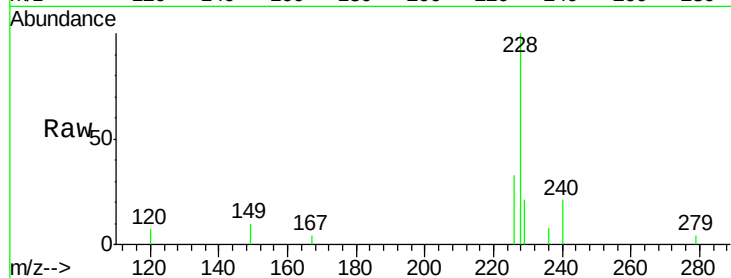
ClientSampleId :

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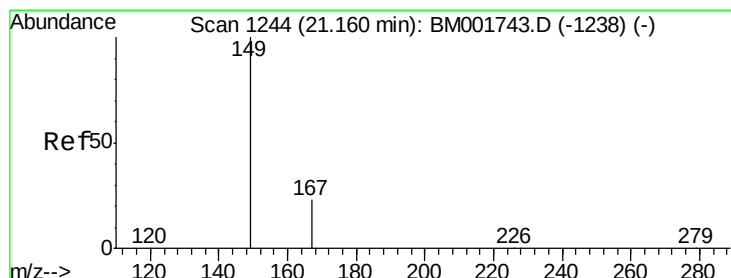
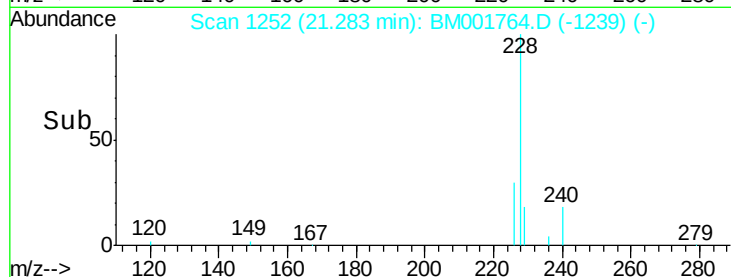
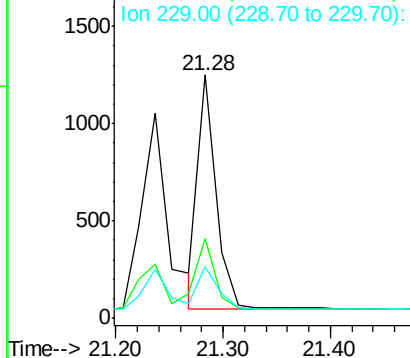
Tgt Ion:	228	Resp:	1409
Ion Ratio	Lower	Upper	
228	100		
226	32.8	24.3	36.5
229	21.1	15.0	22.6

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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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.13 ng

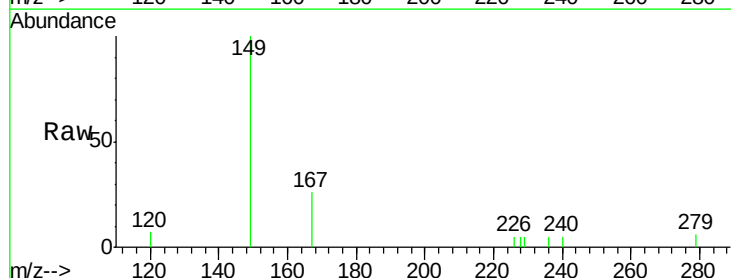
RT: 21.16 min Scan# 1244

Delta R.T. 0.00 min

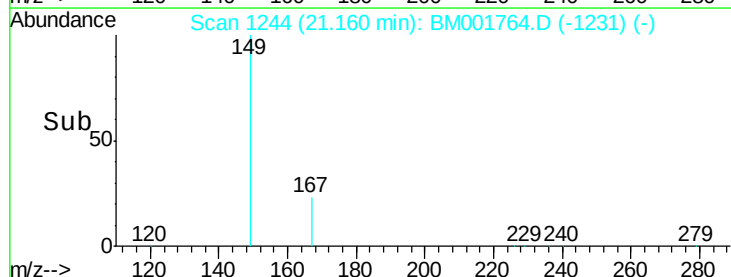
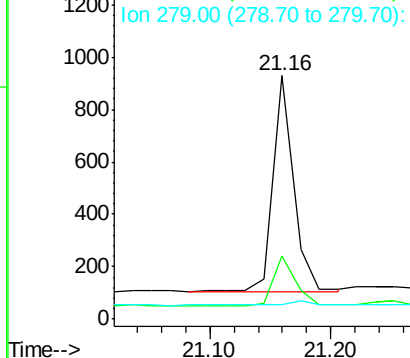
Lab File: BM001764.D

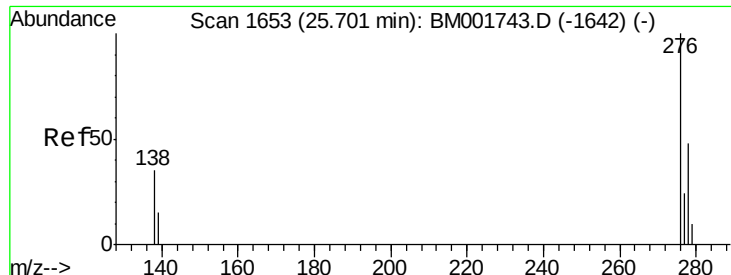
Acq: 19 Jun 2015 16:26

Tgt Ion:	149	Resp:	975
Ion Ratio	Lower	Upper	
149	100		
167	24.6	19.7	29.5
279	3.8	1.6	2.4#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.11 ng

RT: 25.71 min Scan# 1654

Delta R.T. 0.01 min

Lab File: BM001764.D

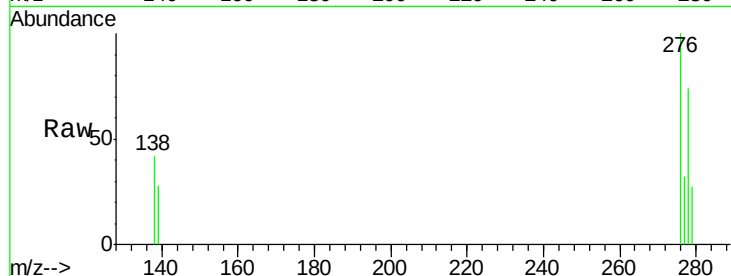
Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

ClientSampleId :

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Tgt Ion: 276 Resp: 1459

Ion Ratio Lower Upper

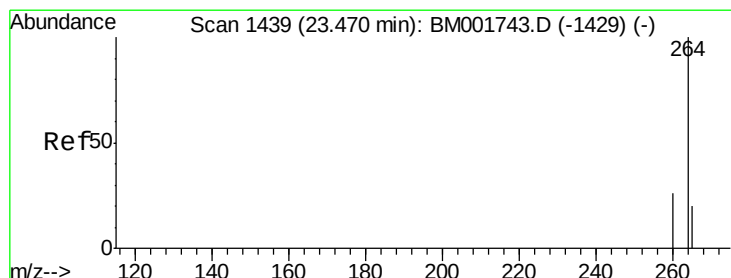
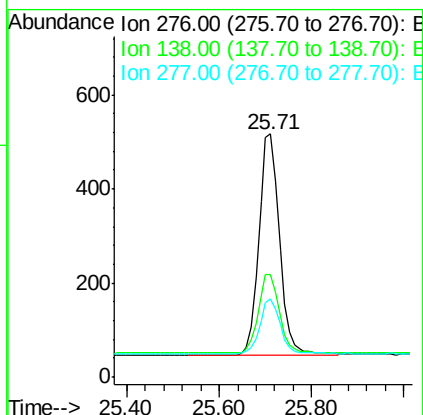
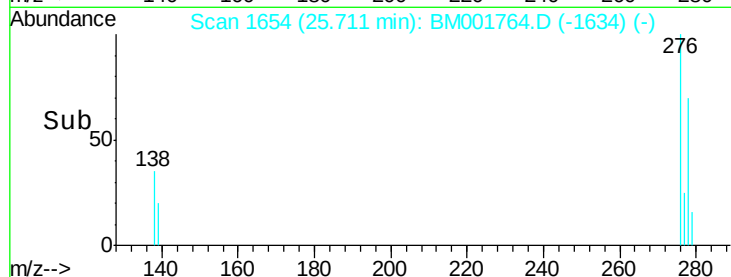
276 100

138 36.6 29.0 43.6

277 25.2 19.7 29.5

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#32

Perylene-d12

Concen: 5.00 ng

RT: 23.47 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

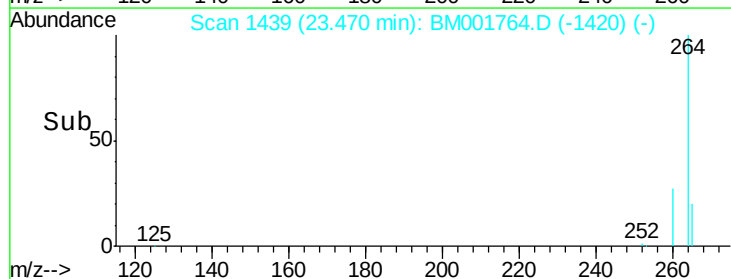
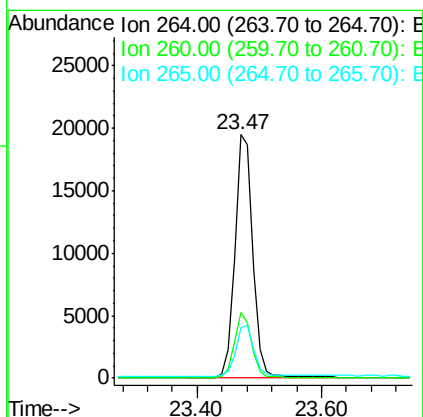
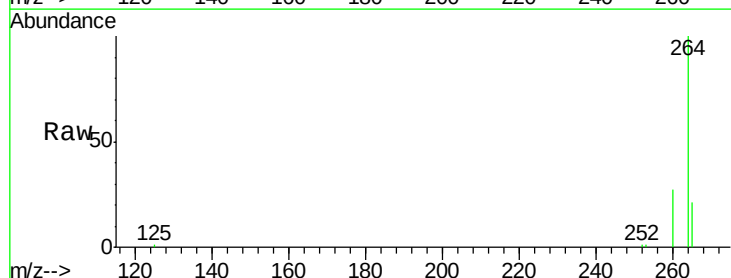
Tgt Ion: 264 Resp: 38916

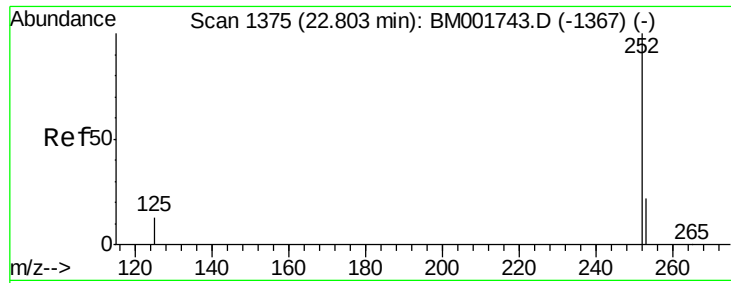
Ion Ratio Lower Upper

264 100

260 26.7 20.8 31.2

265 20.6 16.8 25.2





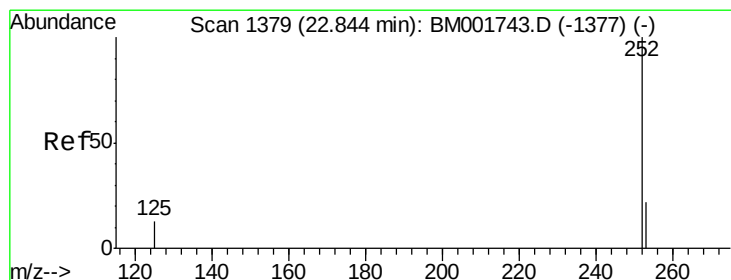
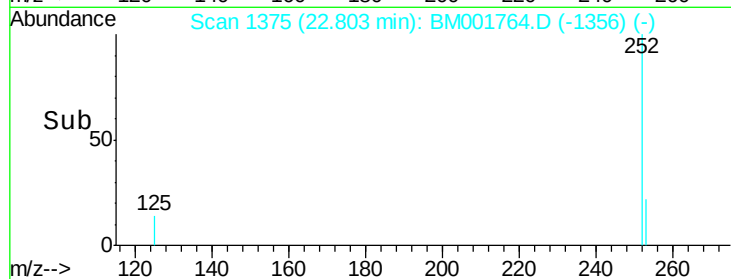
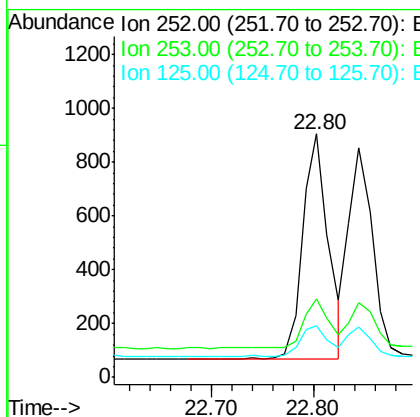
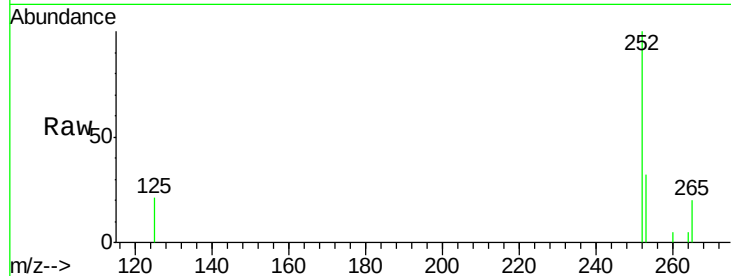
#33
Benzo(b)fluoranthene
Concen: 0.11 ng
RT: 22.80 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BM001764.D
Acq: 19 Jun 2015 16:26

Instrument :
BNA_M
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.4	19.0	28.4#
125	21.4	11.3	16.9#

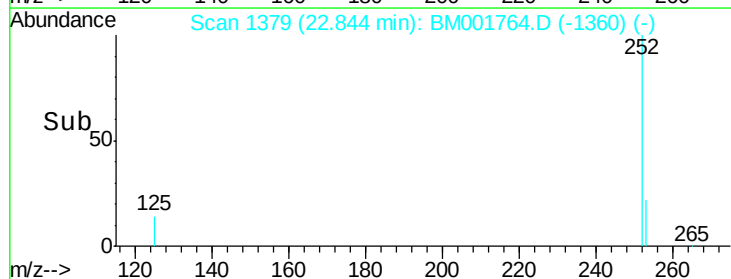
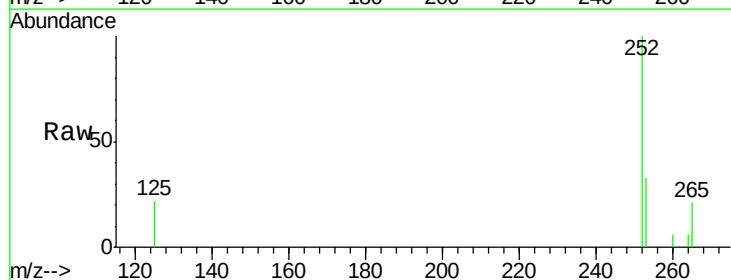
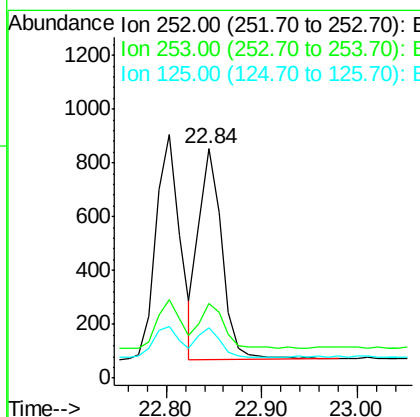
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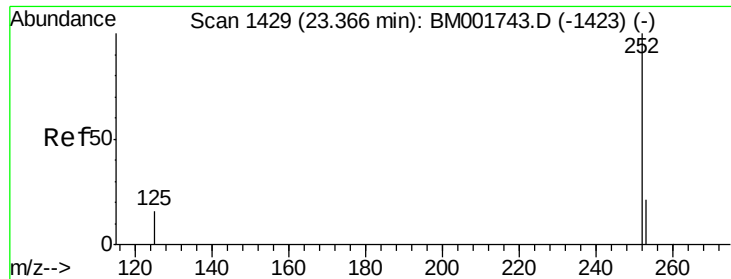
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#34
Benzo(k)fluoranthene
Concen: 0.11 ng
RT: 22.84 min Scan# 1379
Delta R.T. 0.00 min
Lab File: BM001764.D
Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.6	18.2	27.4#
125	22.2	11.8	17.6#





#35

Benzo(a)pyrene

Concen: 0.11 ng

RT: 23.38 min Scan# 1430

Delta R.T. 0.01 min

Lab File: BM001764.D

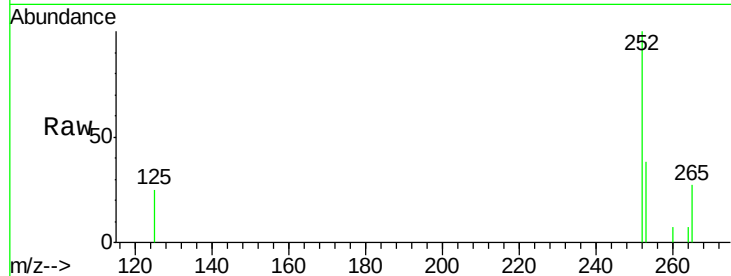
Acq: 19 Jun 2015 16:26

Instrument :

BNA_M

ClientSampleId :

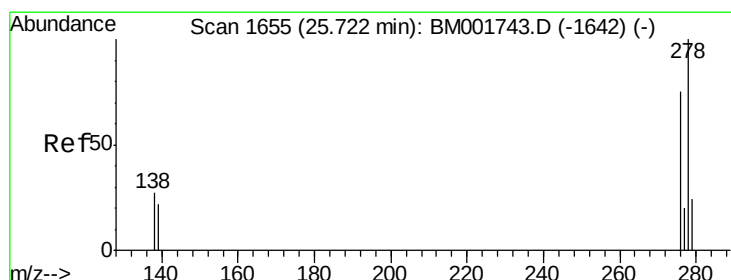
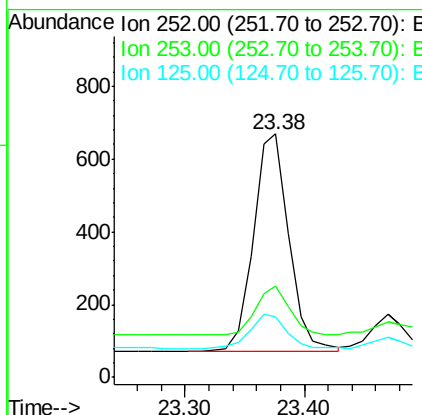
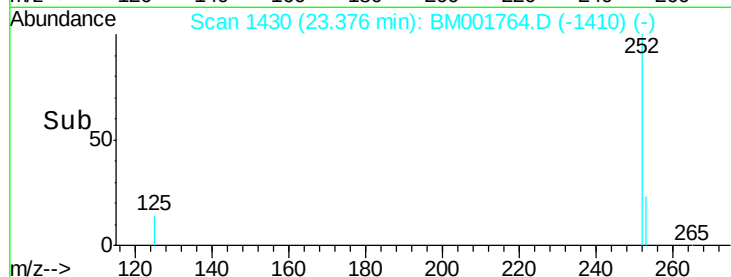
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	37.5	17.9	26.9#
125	25.0	14.1	21.1#

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#36

Dibenzo(a,h)anthracene

Concen: 0.11 ng

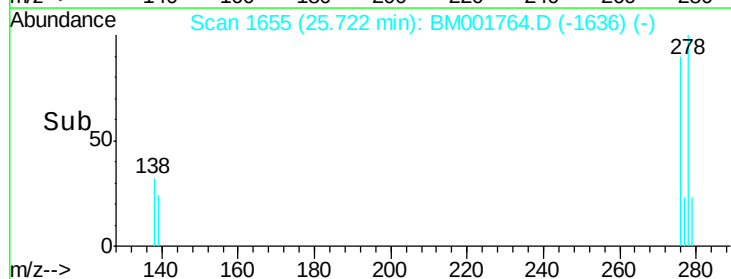
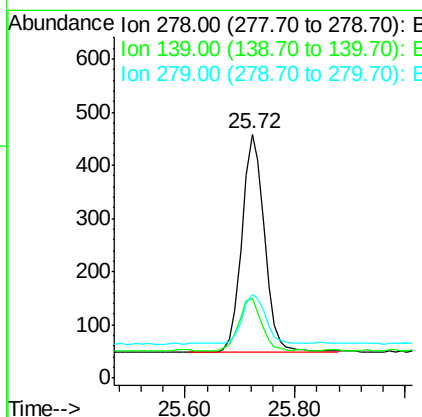
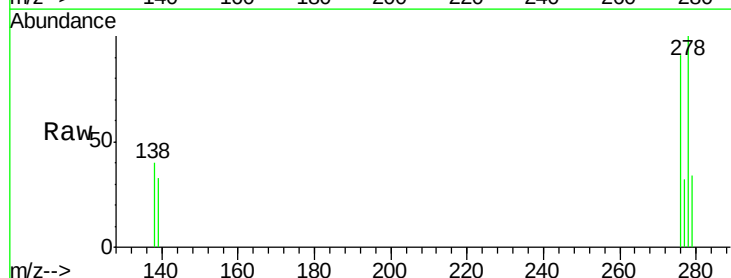
RT: 25.72 min Scan# 1655

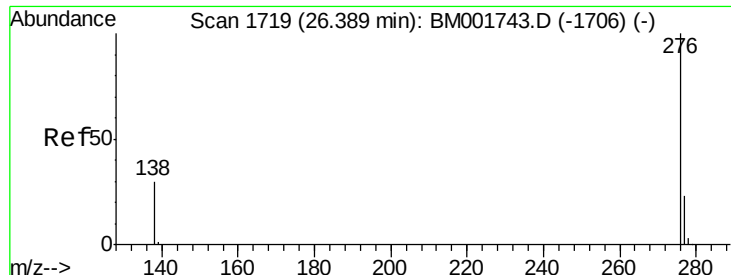
Delta R.T. 0.00 min

Lab File: BM001764.D

Acq: 19 Jun 2015 16:26

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.5	18.4	27.6#
279	34.5	19.8	29.8#





#37
 Benzo(g,h,i)perylene
 Concen: 0.12 ng
 RT: 26.39 min Scan# 1719
 Delta R.T. 0.00 min
 Lab File: BM001764.D
 Acq: 19 Jun 2015 16:26

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-WATER2015-02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.7	19.3	28.9#
138	38.6	24.7	37.1#

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