

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061215\
 Data File : BM001663.D
 Acq On : 12 Jun 2015 06:03
 Operator : TP/IZ
 Sample : G2449-03MS 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMS

Manual Integrations
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Quant Time: Jun 12 17:01:16 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 12 16:27:37 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	24025	5.00	ng	0.00
6) Naphthalene-d8	10.47	136	90452	5.00	ng	0.00
12) Acenaphthene-d10	14.34	164	43603	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	50218	5.00	ng	0.00
25) Chrysene-d12	21.27	240	59504	5.00	ng	0.00
32) Perylene-d12	23.51	264	53521	5.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.27	112	14302	2.51	ng	0.00
5) Phenol-d6	6.84	99	20080	2.81	ng	0.00
7) Nitrobenzene-d5	8.85	82	12557	1.81	ng	0.00
13) 2,4,6-Tribromophenol	15.83	330	4645	2.93	ng	0.00
14) 2-Fluorobiphenyl	12.96	172	27734	1.82	ng	0.00
27) Terphenyl-d14	19.72	244	17076	1.90	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.21	88	3968	1.55	ng	99
3) n-Nitrosodimethylamine	3.51	42	7018	1.67	ng	# 97
8) Nitrobenzene	8.89	77	13411	1.79	ng	99
9) Naphthalene	10.52	128	51380	2.34	ng	99
10) Hexachlorobutadiene	10.80	225	6386	1.75	ng	99
11) 2-Methylnaphthalene	12.14	142	29958	2.12	ng	# 86
15) Acenaphthylene	14.05	152	45816	2.25	ng	99
16) Acenaphthene	14.40	154	44442	3.43	ng	96
17) Fluorene	15.36	166	54429	4.11	ng	# 98
19) 4-Bromophenyl-phenylether	16.27	248	7776	1.54	ng	# 83
20) Hexachlorobenzene	16.38	284	9469	2.07	ng	# 73
21) Pentachlorophenol	16.72	266	40134	21.82	ng	95
22) Phenanthrene	17.12	178	245440	14.90	ng	# 99
23) Anthracene	17.19	178	143460m	7.37	ng	
24) Fluoranthene	19.14	202	514287	21.08	ng	100
26) Pyrene	19.50	202	478811	23.44	ng	# 95
28) Benzo(a)anthracene	21.25	228	242404	12.97	ng	97
29) Chrysene	21.30	228	177818	9.94	ng	97
30) Bis(2-ethylhexyl)phthalate	21.18	149	25978	2.08	ng	100
31) Indeno(1,2,3-cd)pyrene	25.75	276	108062	7.69	ng	96
33) Benzo(b)fluoranthene	22.83	252	209450m	12.00	ng	
34) Benzo(k)fluoranthene	22.88	252	99527m	5.87	ng	
35) Benzo(a)pyrene	23.41	252	162090	11.14	ng	97
36) Dibenzo(a,h)anthracene	25.77	278	42413	3.47	ng	99
37) Benzo(g,h,i)perylene	26.45	276	101703	8.17	ng	99

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

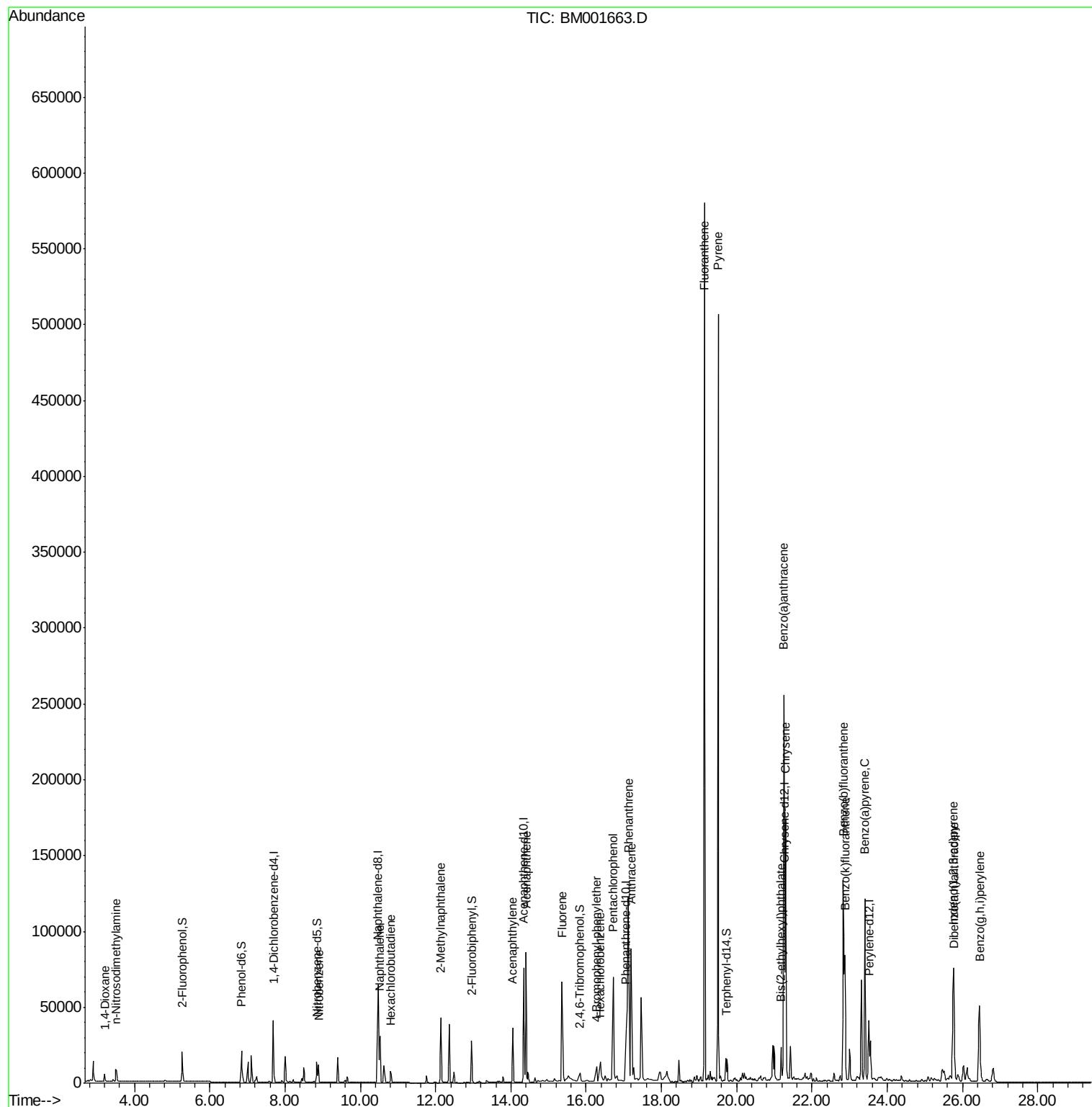
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061215\
Data File : BM001663.D
Acq On : 12 Jun 2015 06:03
Operator : TP/IZ
Sample : G2449-03MS 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

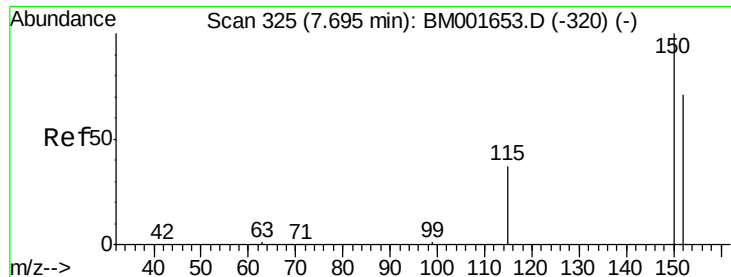
Instrument :
BNA_M
ClientSampleId :
FM2AMS

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Quant Time: Jun 12 17:01:16 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061215.M
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QLast Update : Fri Jun 12 16:27:37 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.70 min Scan# 325

Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

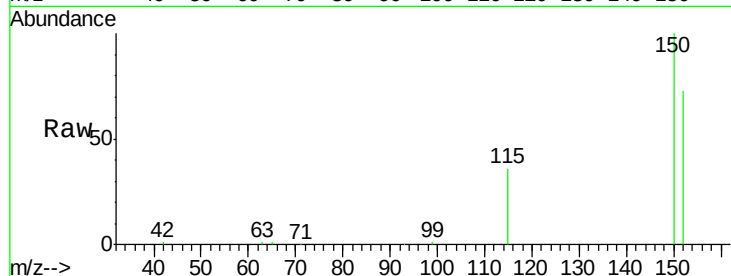
ClientSampled :

FM2AMS

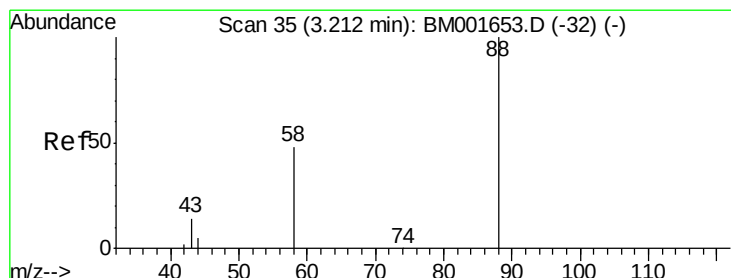
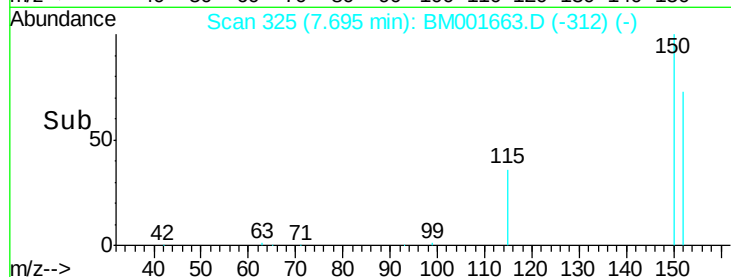
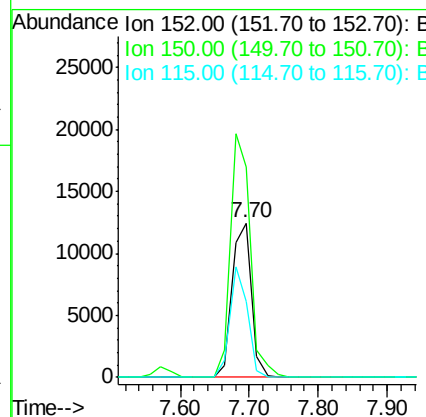
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Tgt Ion:	152	Resp:	24025
Ion	Ratio	Lower	Upper
152	100		
150	136.6	112.2	168.2
115	49.4	41.7	62.5



#2

1,4-Dioxane

Concen: 1.55 ng

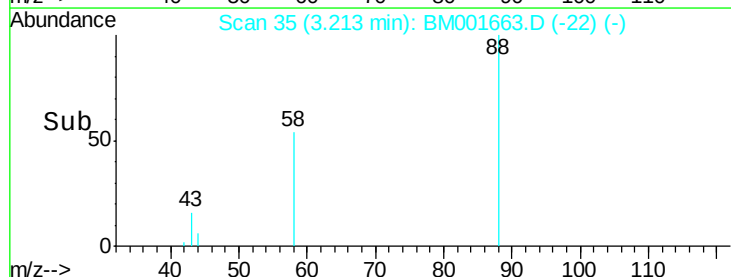
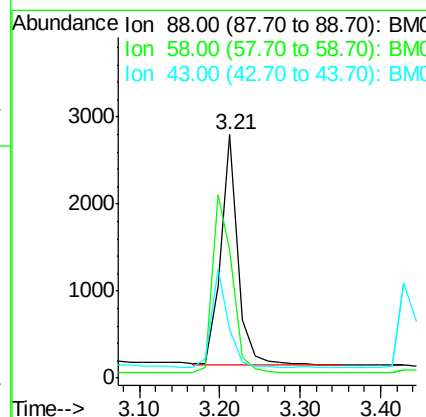
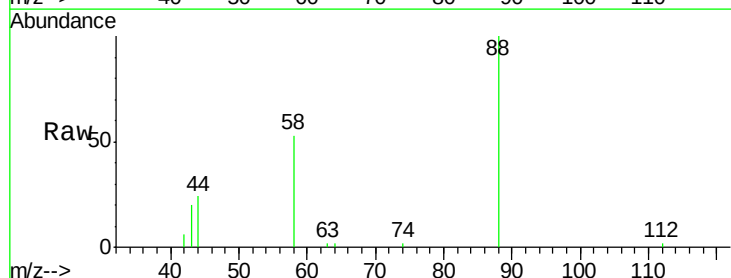
RT: 3.21 min Scan# 35

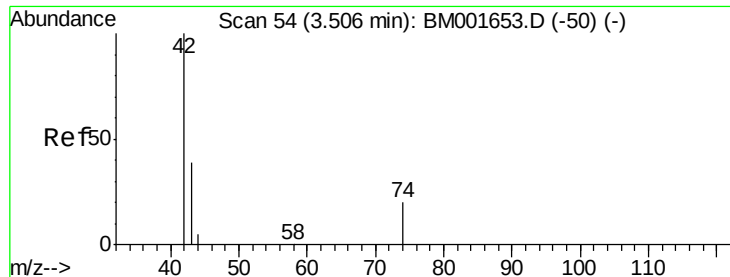
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	88	Resp:	3968
Ion	Ratio	Lower	Upper
88	100		
58	88.7	70.5	105.7
43	40.3	33.3	49.9





#3

n-Nitrosodimethylamine

Concen: 1.67 ng

RT: 3.51 min Scan# 54

Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampled :

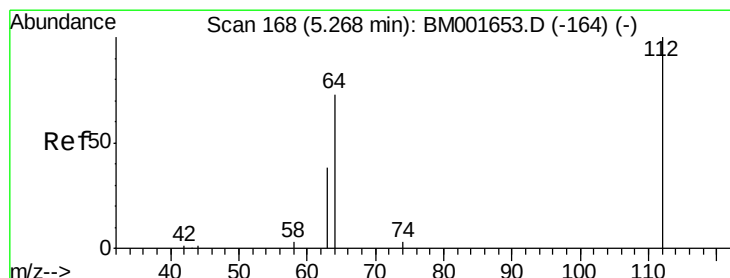
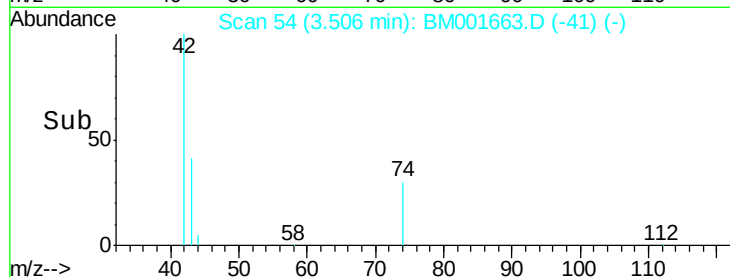
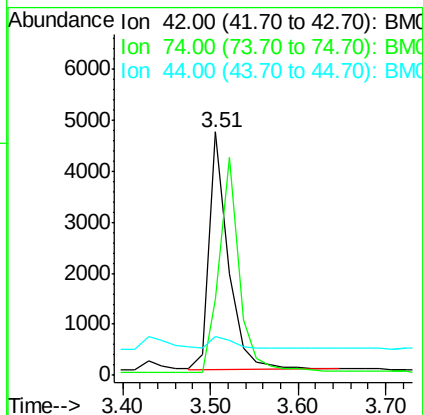
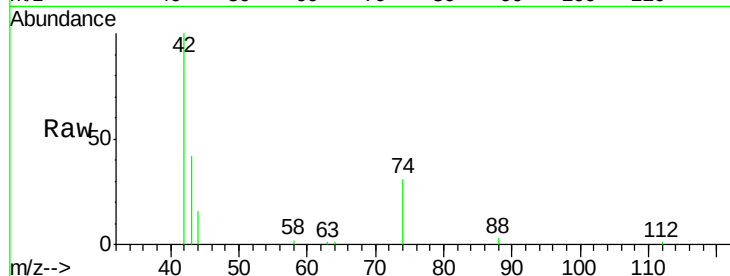
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Tgt Ion:	42	Resp:	7018
Ion	Ratio	Lower	Upper
42	100		
74	96.9	75.7	113.5
44	6.5	6.7	10.1#



#4

2-Fluorophenol

Concen: 2.51 ng

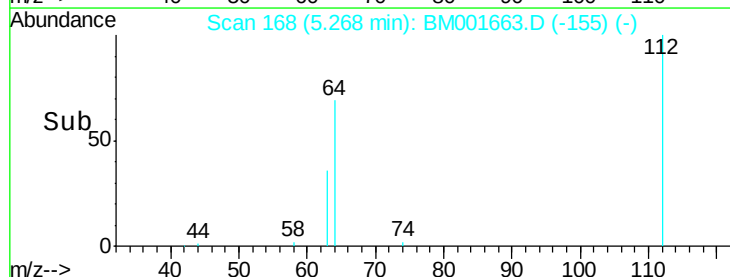
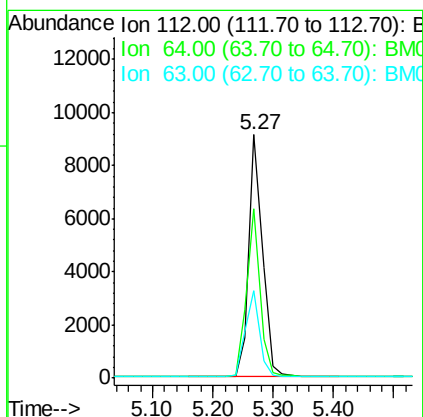
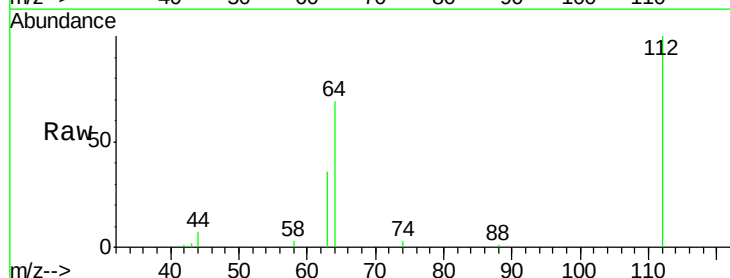
RT: 5.27 min Scan# 168

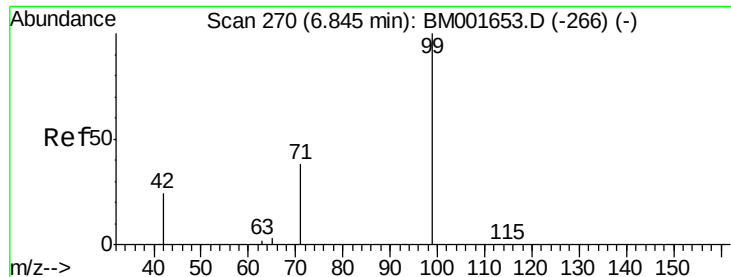
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	112	Resp:	14302
Ion	Ratio	Lower	Upper
112	100		
64	69.0	55.5	83.3
63	37.7	29.9	44.9





#5

Phenol-d6

Concen: 2.81 ng

RT: 6.84 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

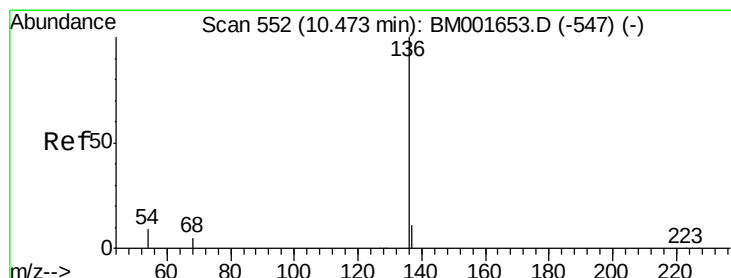
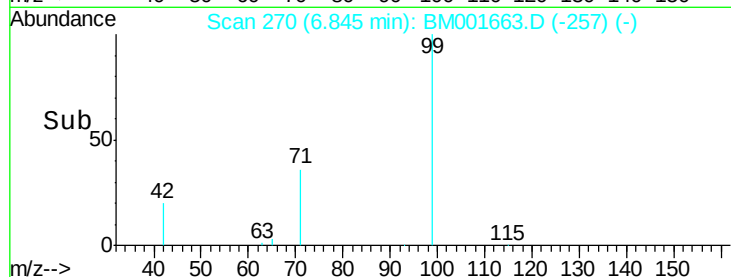
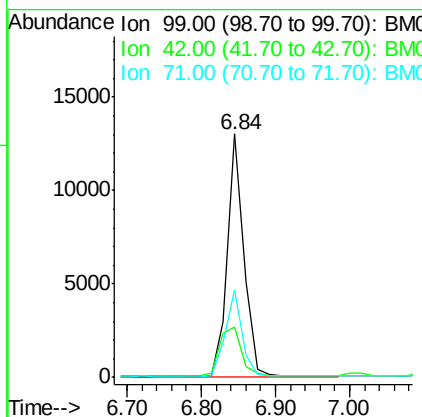
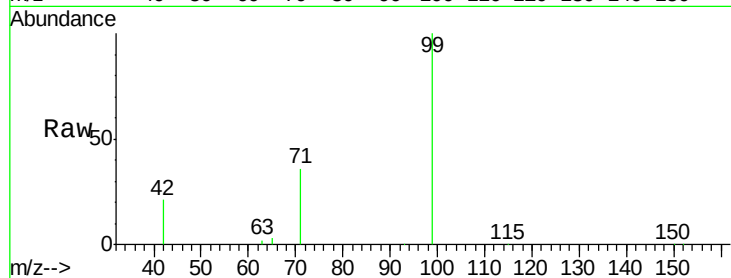
ClientSampleId :

FM2AMS

Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.1	21.6	32.4
71	35.8	28.7	43.1

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#6

Naphthalene-d8

Concen: 5.00 ng

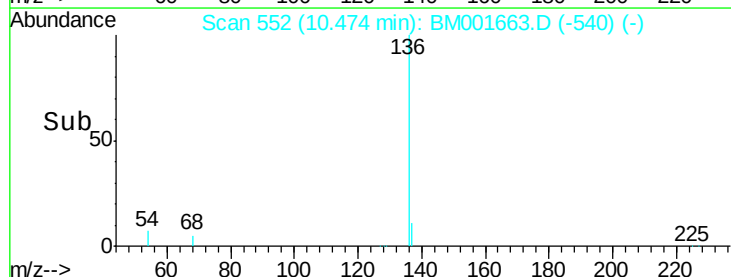
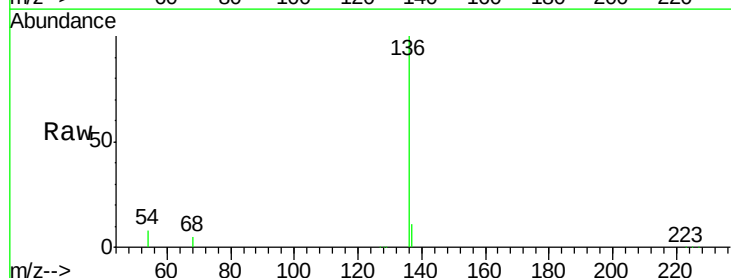
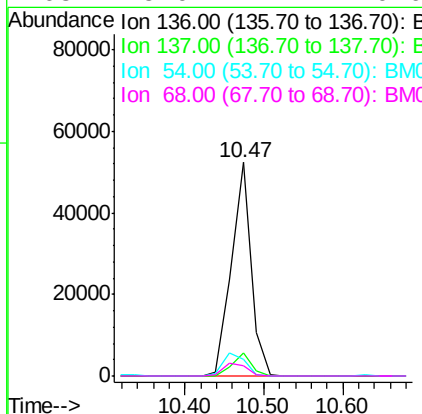
RT: 10.47 min Scan# 552

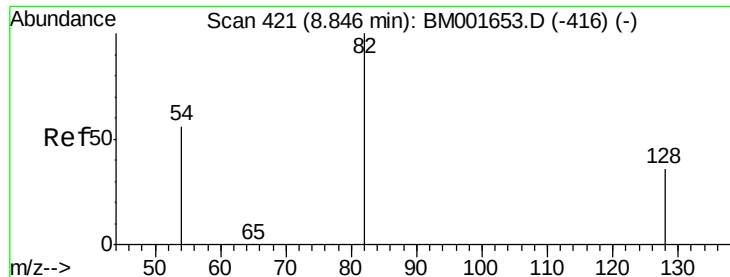
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	7.6	6.9	10.3
68	5.0	4.4	6.6





#7

Nitrobenzene-d5

Concen: 1.81 ng

RT: 8.85 min Scan# 421

Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

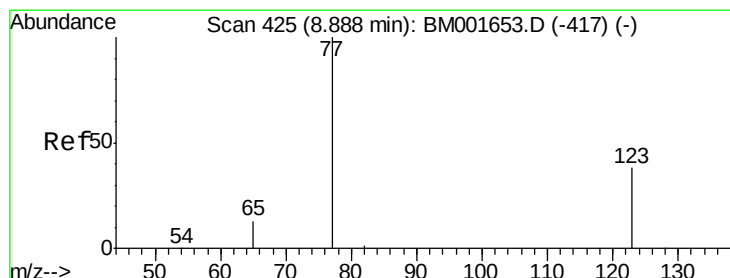
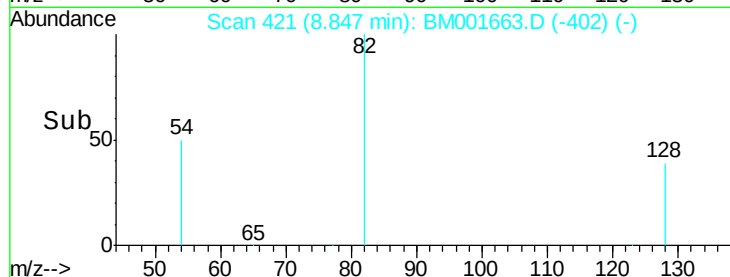
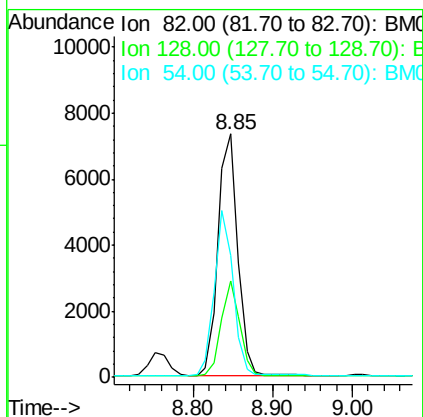
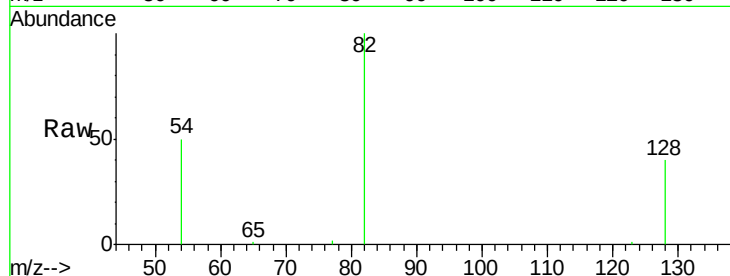
ClientSampled :

FM2AMS

Tgt Ion:	82	Resp:	12557
Ion Ratio	Lower	Upper	
82	100		
128	39.8	29.7	44.5
54	50.4	45.1	67.7

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#8

Nitrobenzene

Concen: 1.79 ng

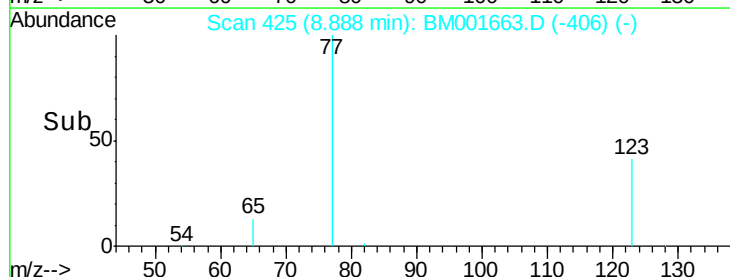
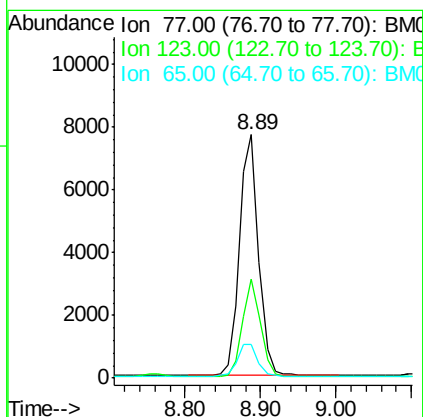
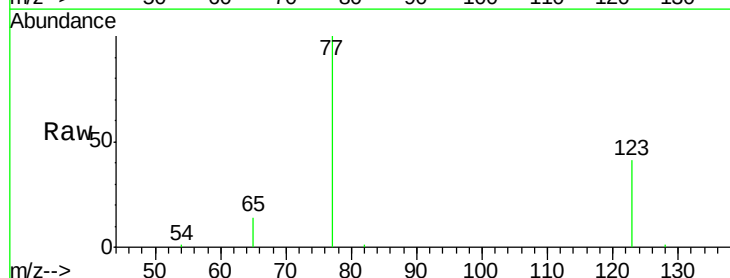
RT: 8.89 min Scan# 425

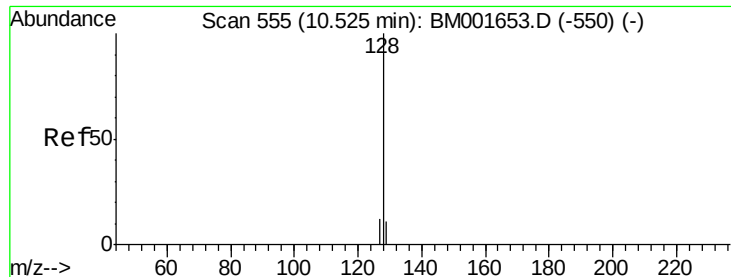
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	77	Resp:	13411
Ion Ratio	Lower	Upper	
77	100		
123	38.4	30.3	45.5
65	14.2	11.2	16.8





#9

Naphthalene

Concen: 2.34 ng

RT: 10.52 min Scan# 555

Delta R.T. 0.00 min

Lab File: BM001663.D

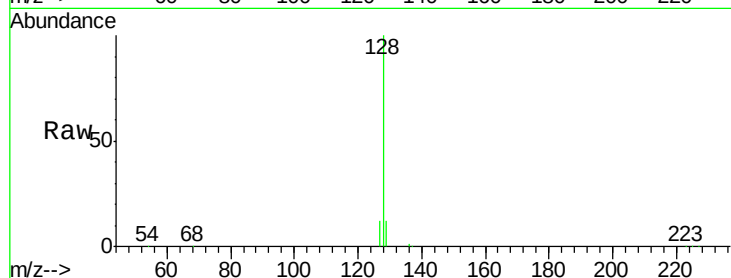
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

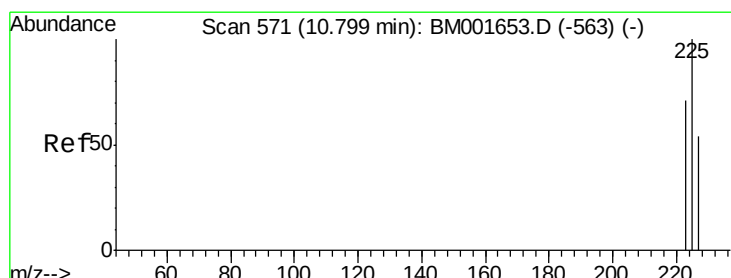
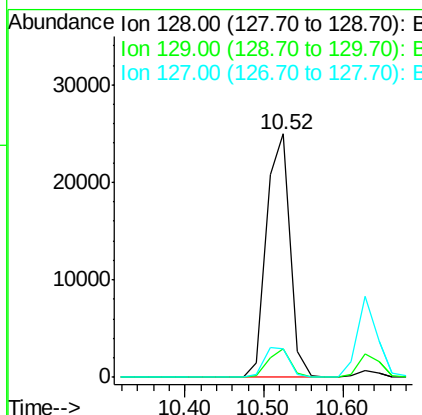
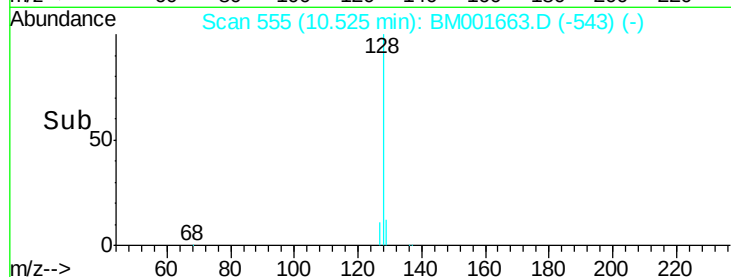
FM2AMS



Tgt Ion:	128	Resp:	51380
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.4	14.2
127	11.6	9.7	14.5

Manual Integrations
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#10

Hexachlorobutadiene

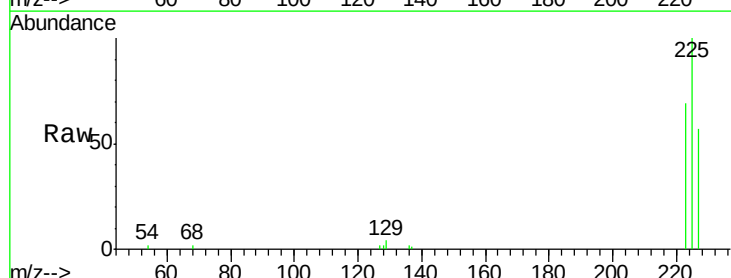
Concen: 1.75 ng

RT: 10.80 min Scan# 571

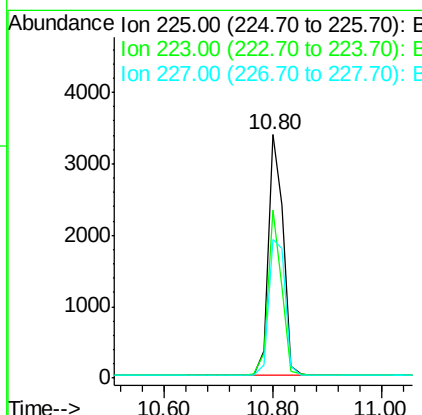
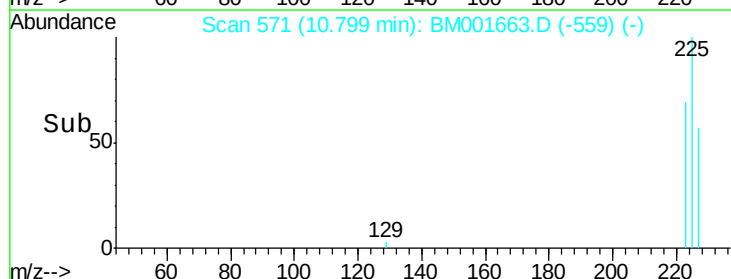
Delta R.T. 0.00 min

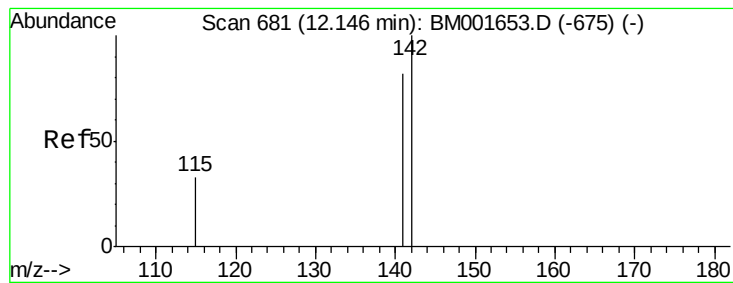
Lab File: BM001663.D

Acq: 12 Jun 2015 06:03



Tgt Ion:	225	Resp:	6386
Ion Ratio	Lower	Upper	
225	100		
223	62.8	51.0	76.4
227	63.7	51.2	76.8





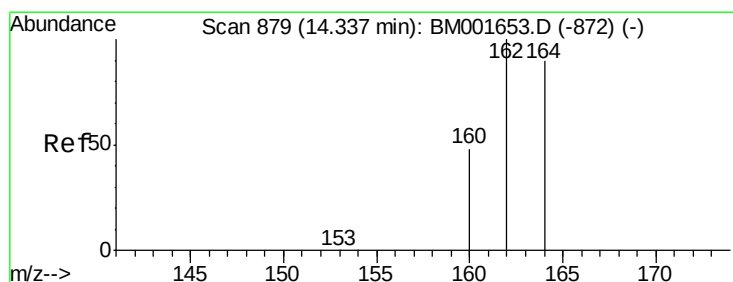
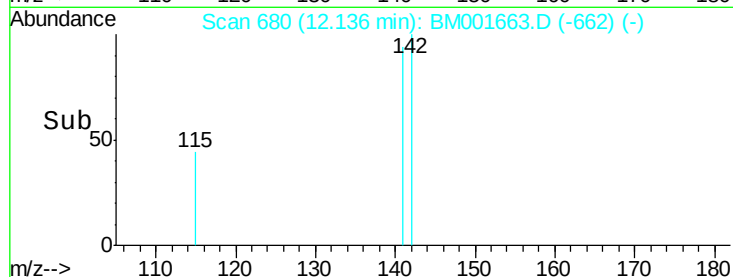
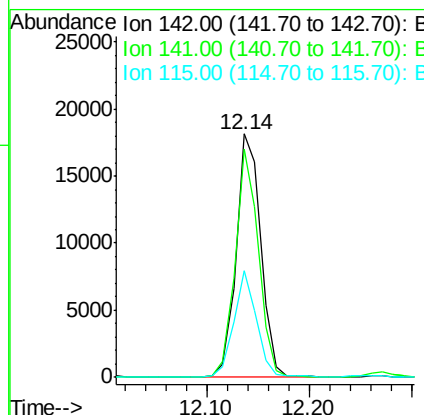
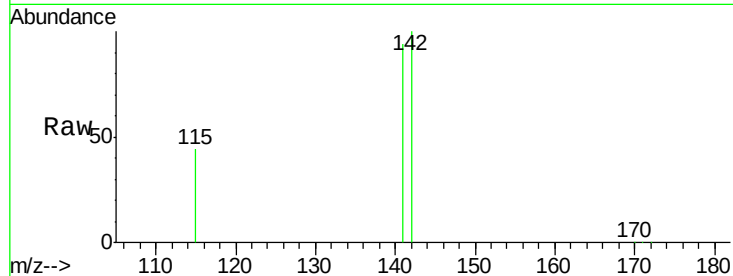
#11
2-Methylnaphthalene
Concen: 2.12 ng
RT: 12.14 min Scan# 680
Delta R.T. -0.01 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Instrument :
BNA_M
ClientSampleId :
FM2AMS

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.0	65.8	98.6
115	43.9	27.0	40.6

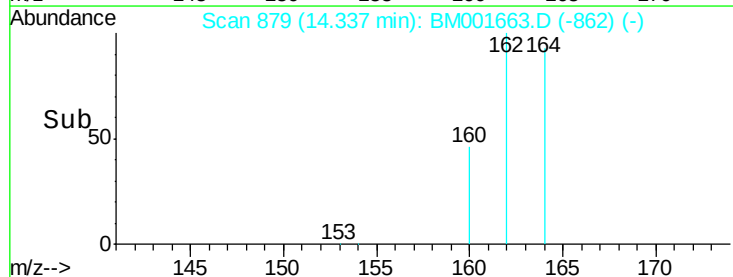
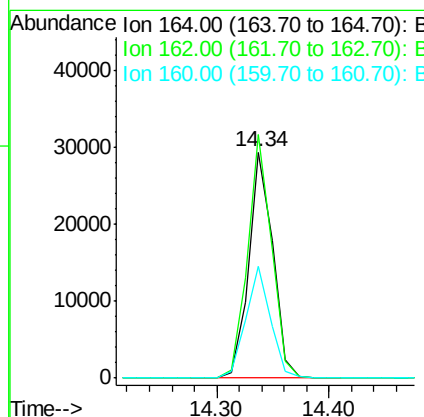
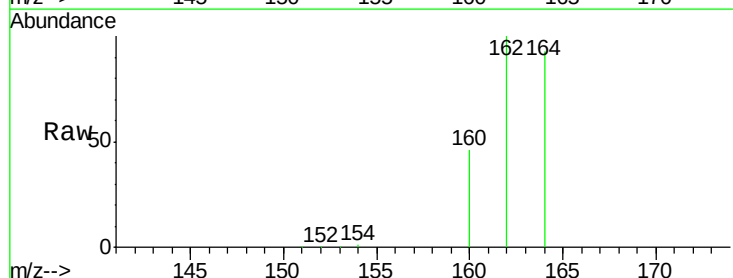
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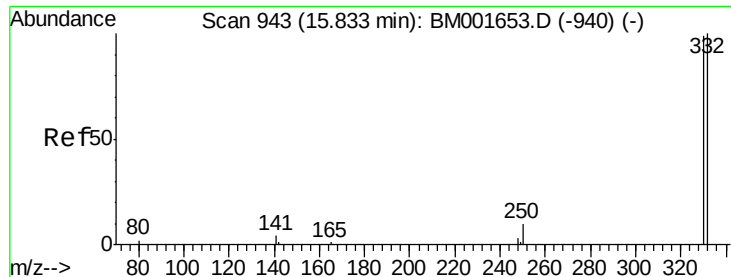
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.34 min Scan# 879
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.8	89.0	133.4
160	49.4	42.6	63.8





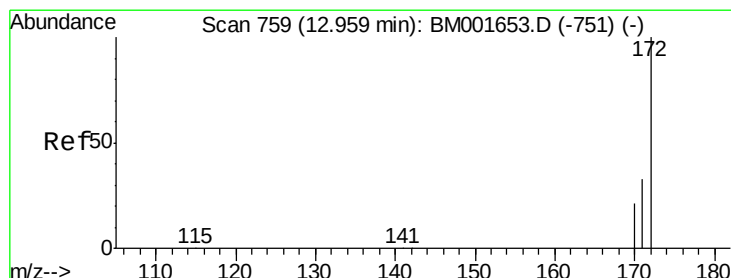
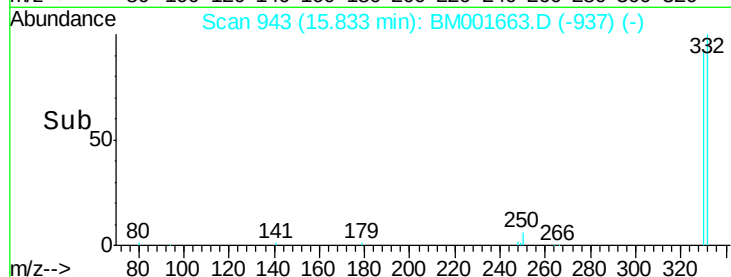
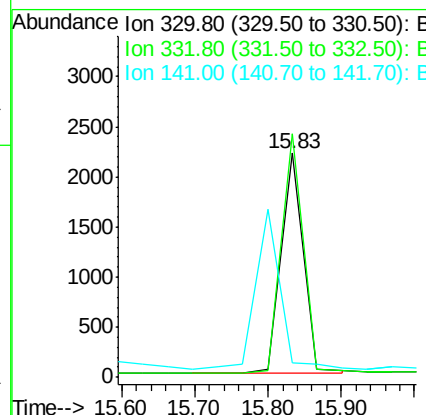
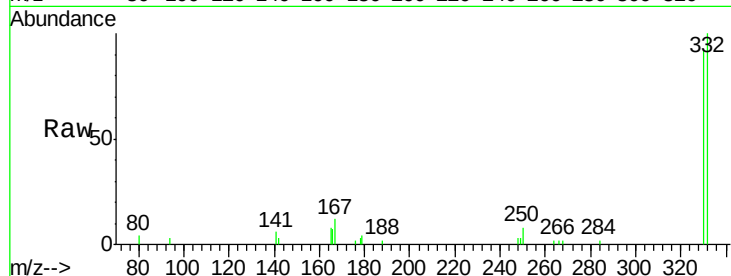
#13
 2,4,6-Tribromophenol
 Concen: 2.93 ng
 RT: 15.83 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMS

Tgt Ion	Ratio	Lower	Upper
330	100		
332	107.7	80.6	120.8
141	0.0	0.0	0.0

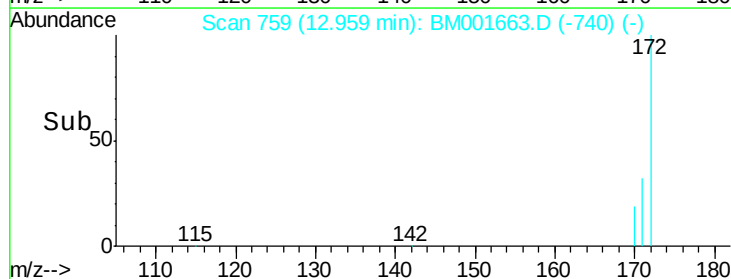
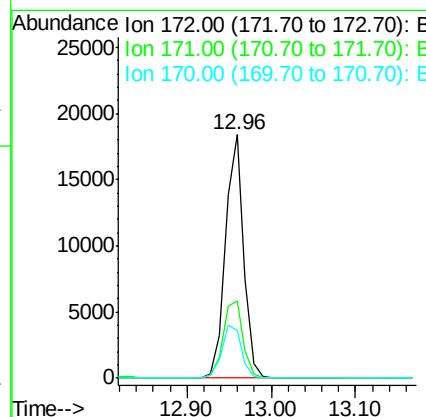
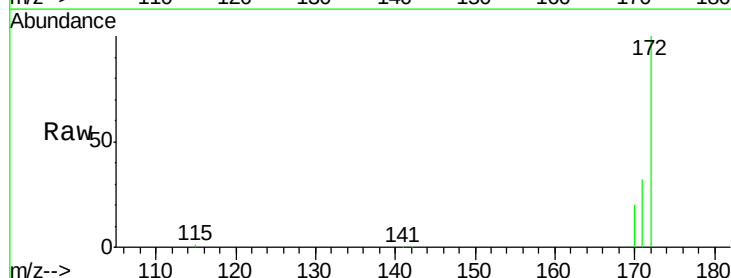
Manual Integrations
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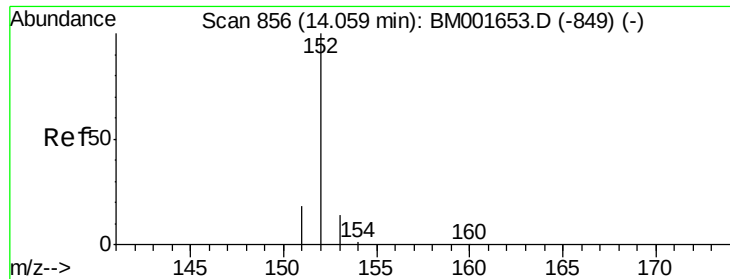
apatel
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#14
 2-Fluorobiphenyl
 Concen: 1.82 ng
 RT: 12.96 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.0	26.6	40.0
170	19.7	17.1	25.7





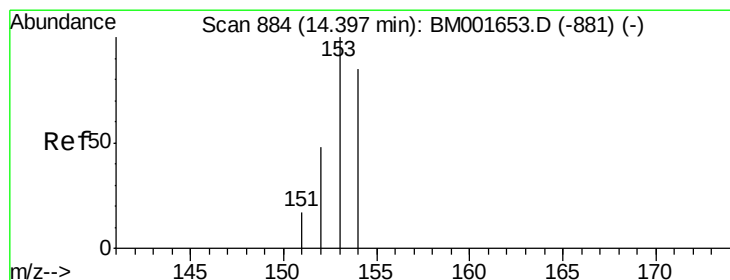
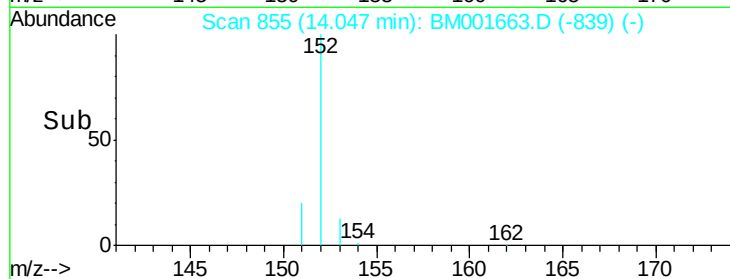
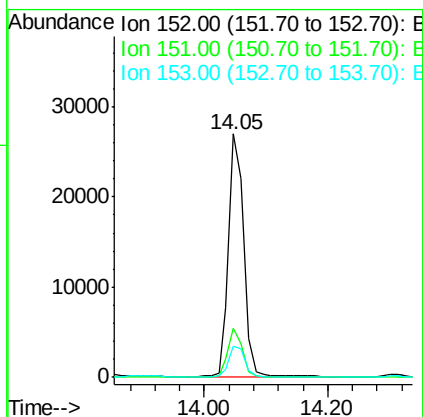
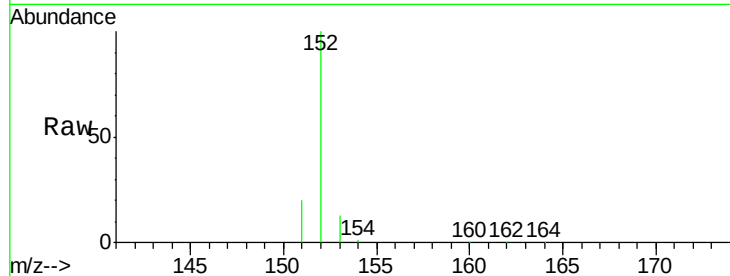
#15
Acenaphthylene
Concen: 2.25 ng
RT: 14.05 min Scan# 855
Delta R.T. -0.01 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Instrument :
BNA_M
ClientSampleId :
FM2AMS

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.5	23.3
153	13.4	10.2	15.4

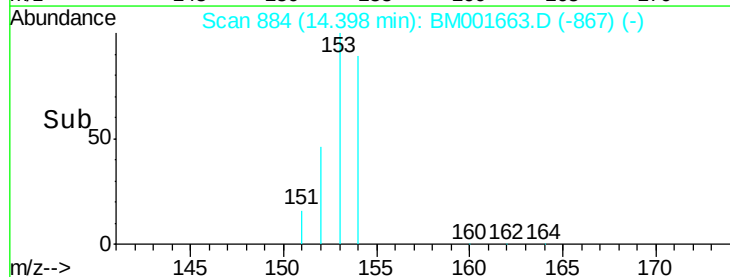
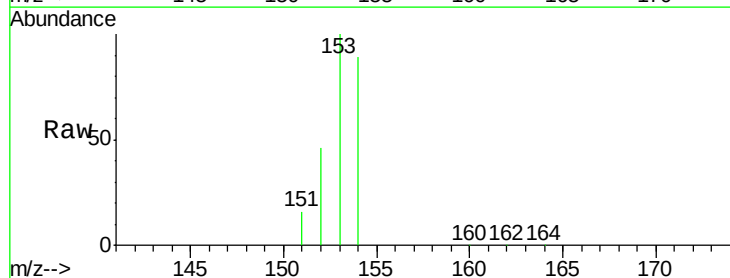
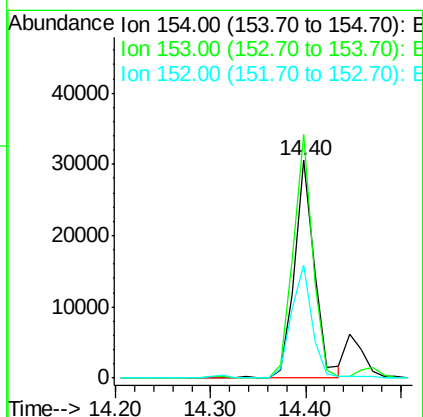
Manual Integrations
APPROVED

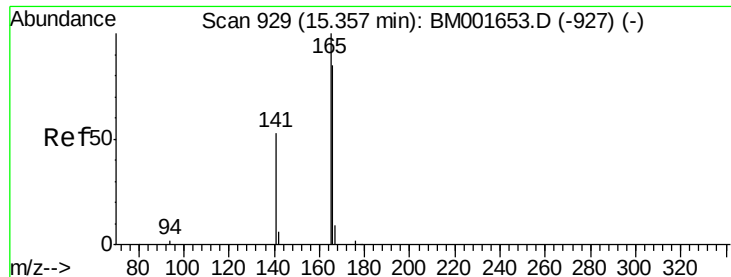
apatel
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#16
Acenaphthene
Concen: 3.43 ng
RT: 14.40 min Scan# 884
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.8	91.0	136.6
152	52.7	43.8	65.8





#17

Fluorene

Concen: 4.11 ng

RT: 15.36 min Scan# 929

Delta R.T. 0.00 min

Lab File: BM001663.D

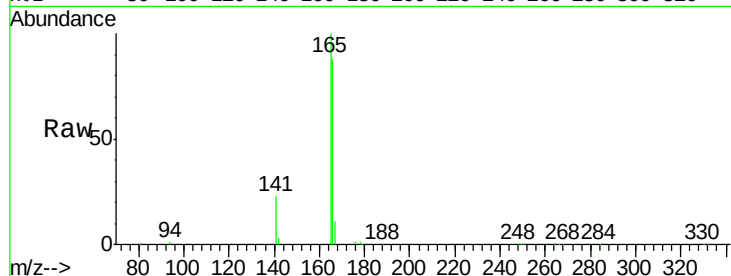
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

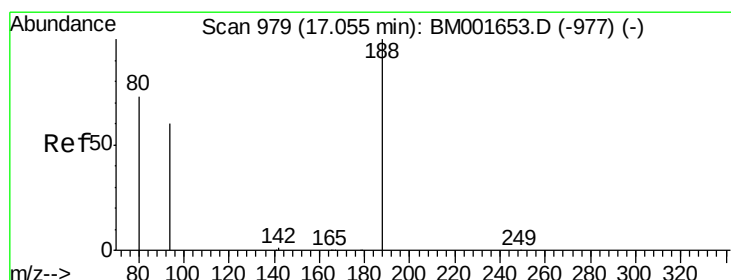
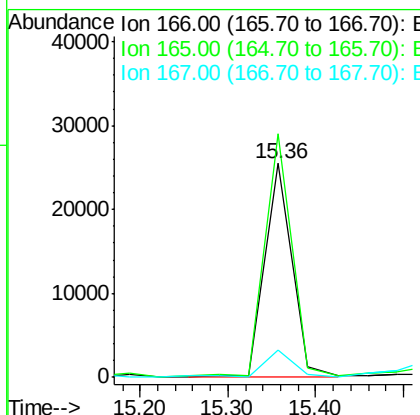
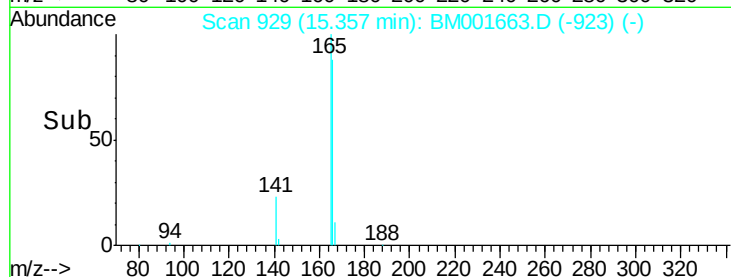
FM2AMS



Tgt Ion:	166	Resp:	54429
Ion Ratio	Lower	Upper	
166	100		
165	112.0	90.7	136.1
167	14.6	9.4	14.0#

Manual Integrations
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#18

Phenanthrene-d10

Concen: 5.00 ng

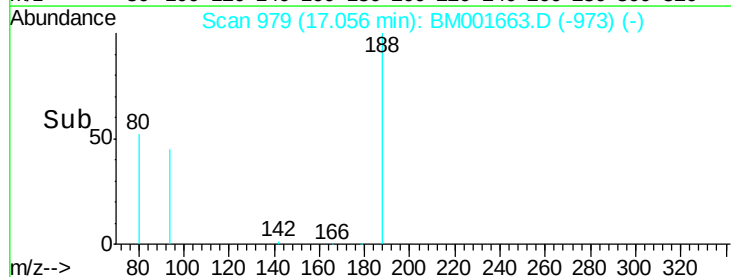
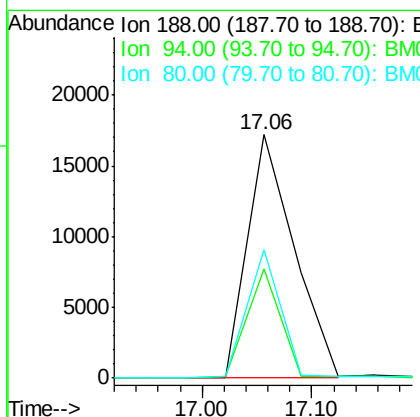
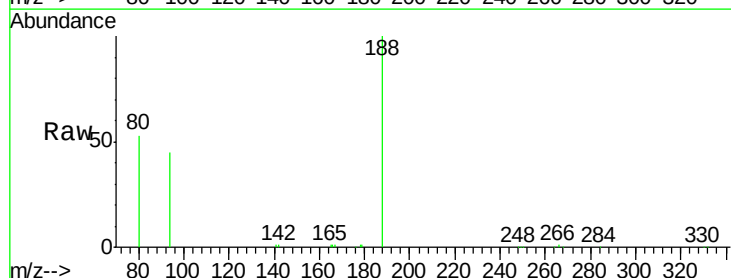
RT: 17.06 min Scan# 979

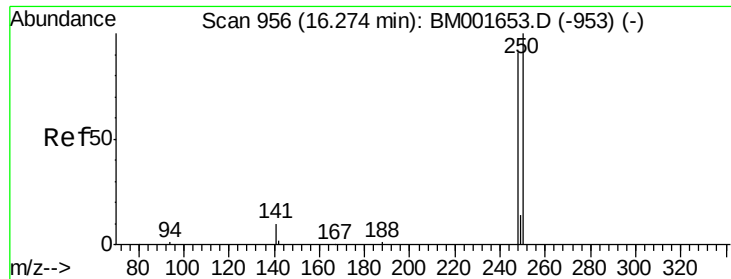
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	188	Resp:	50218
Ion Ratio	Lower	Upper	
188	100		
94	45.1	48.3	72.5#
80	52.5	58.6	88.0#





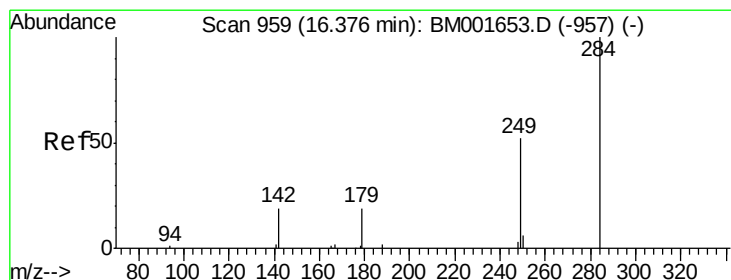
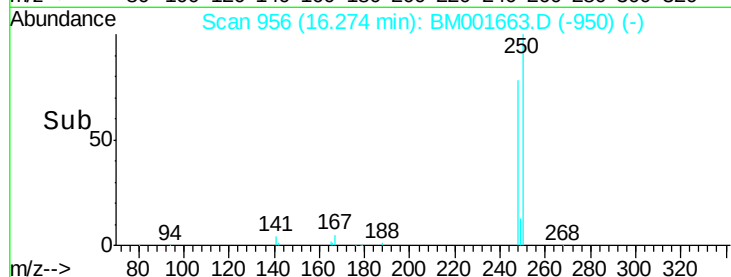
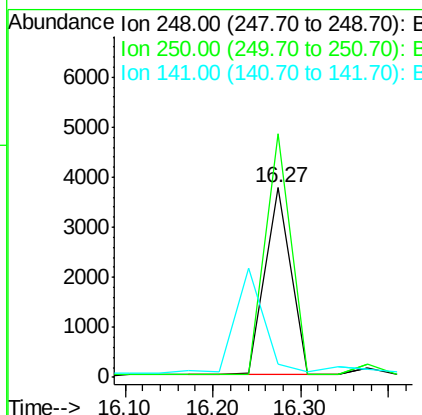
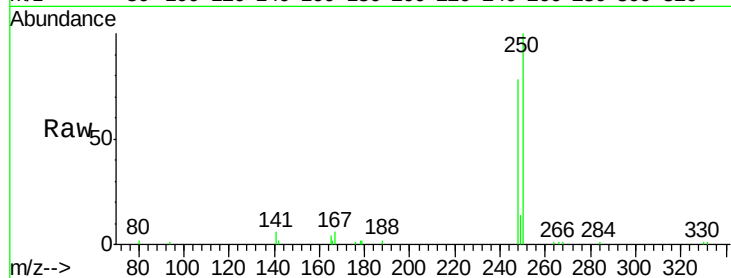
#19
4-Bromophenyl-phenylether
Concen: 1.54 ng
RT: 16.27 min Scan# 956
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Instrument :
BNA_M
ClientSampleId :
FM2AMS

Tgt Ion	Ratio	Lower	Upper
248	100		
250	127.3	87.5	131.3
141	0.0	0.0	0.0

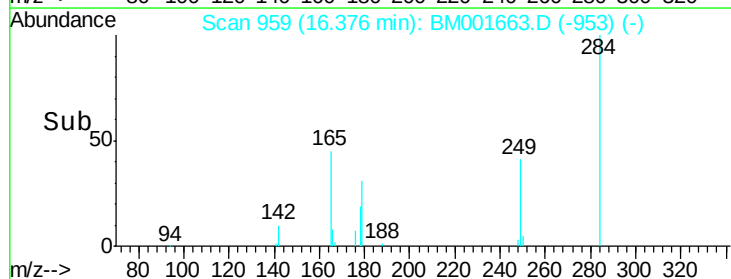
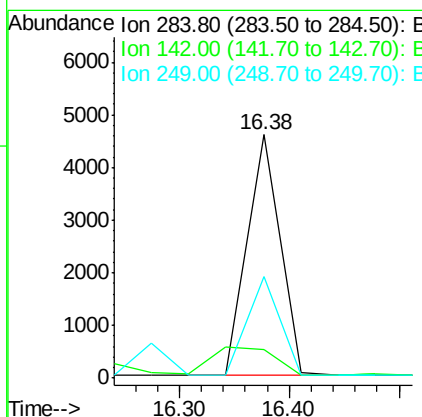
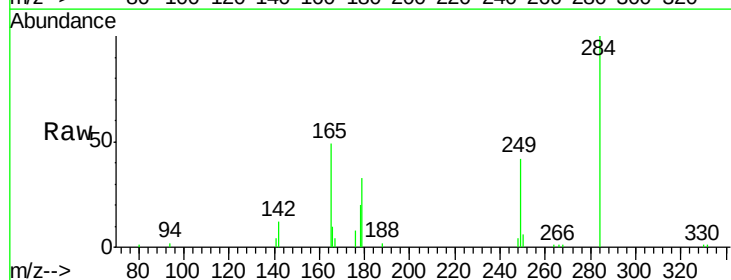
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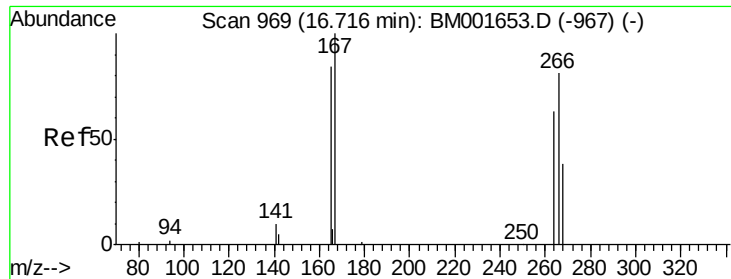
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#20
Hexachlorobenzene
Concen: 2.07 ng
RT: 16.38 min Scan# 959
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	21.5	32.3#
249	53.8	53.8	80.6





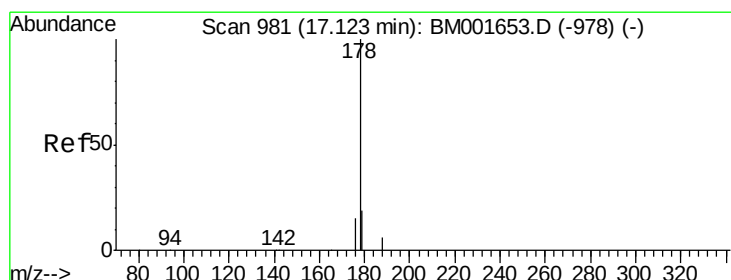
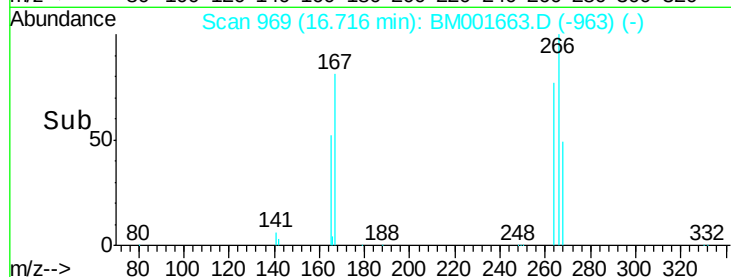
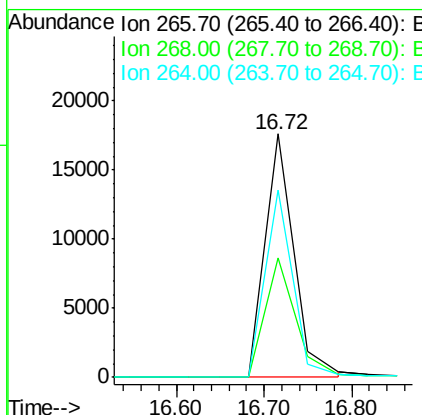
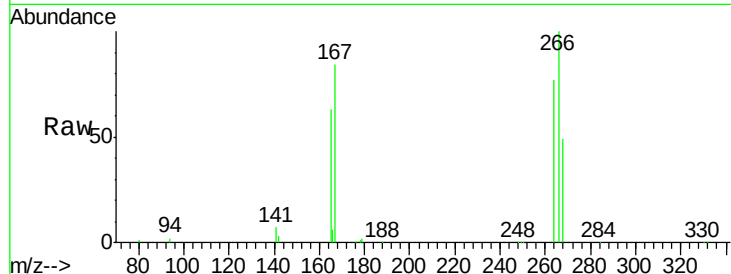
#21
 Pentachlorophenol
 Concen: 21.82 ng
 RT: 16.72 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMS

Tgt Ion	Ratio	Lower	Upper
266	100		
268	48.9	43.3	64.9
264	77.2	64.5	96.7

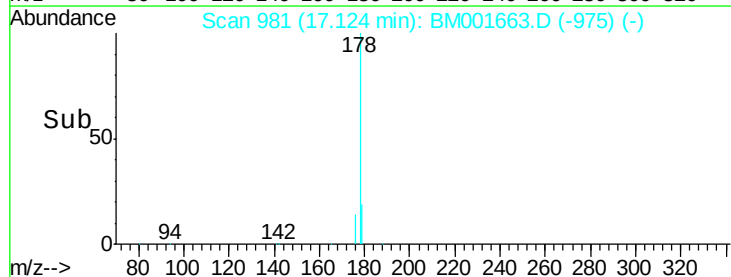
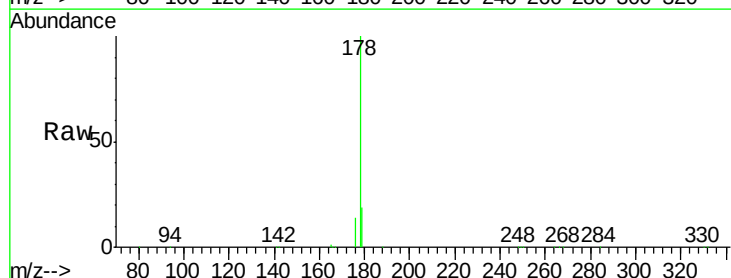
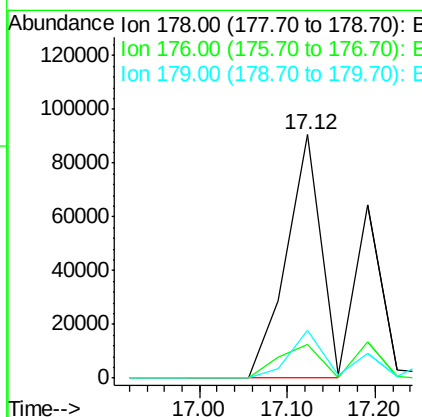
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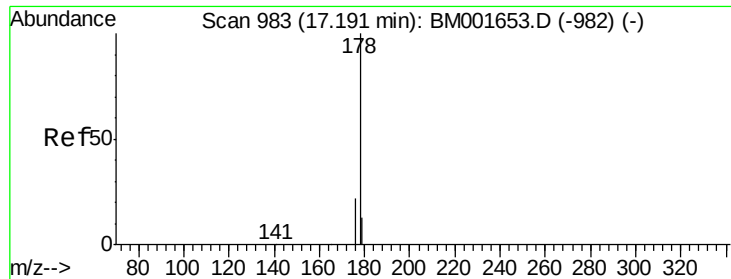
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#22
 Phenanthrene
 Concen: 14.90 ng
 RT: 17.12 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.2	0.0	0.0#
179	18.2	14.2	21.2





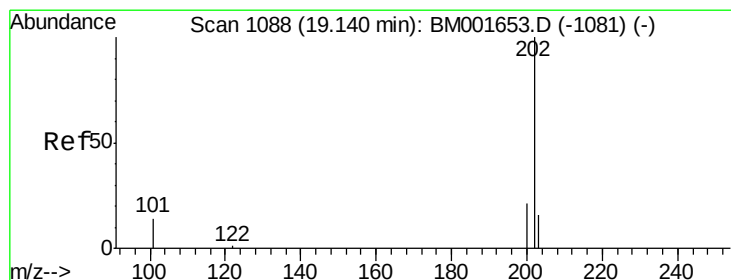
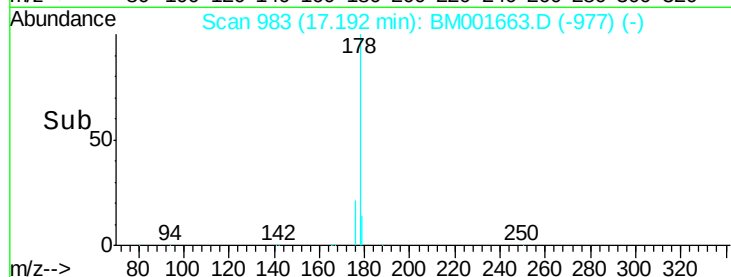
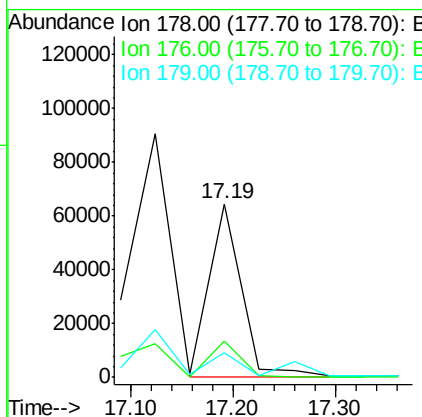
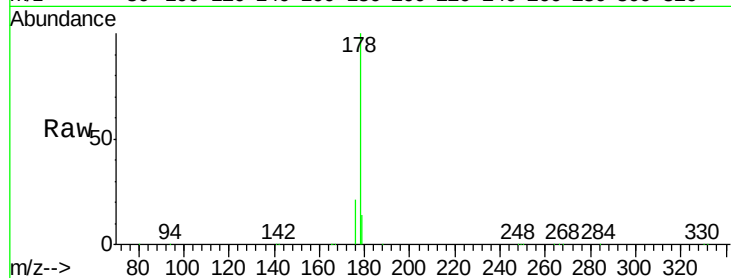
#23
 Anthracene
 Concen: 7.37 ng m
 RT: 17.19 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	0.0	0.0	0.0
179	44.7	21.4	32.0

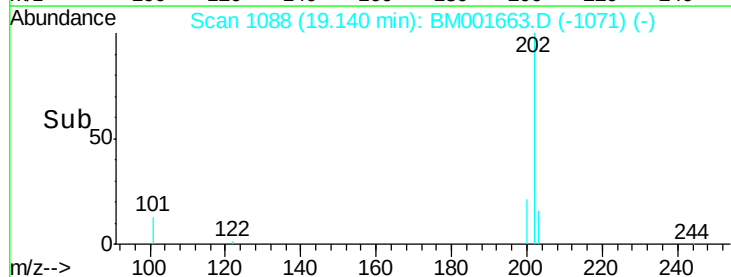
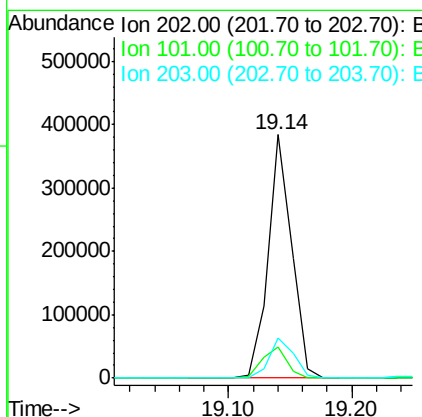
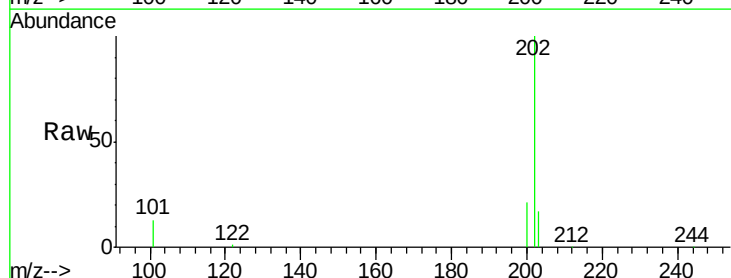
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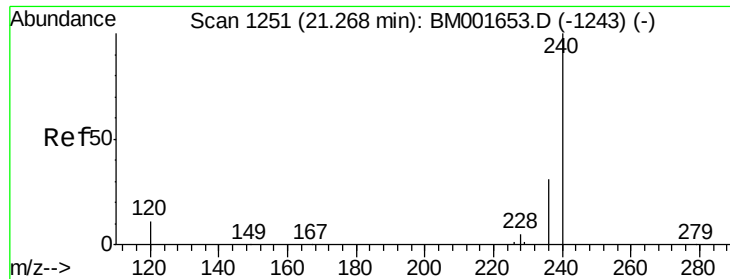
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#24
 Fluoranthene
 Concen: 21.08 ng
 RT: 19.14 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: BM001663.D
 Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.4	10.8	16.2
203	17.4	13.8	20.8





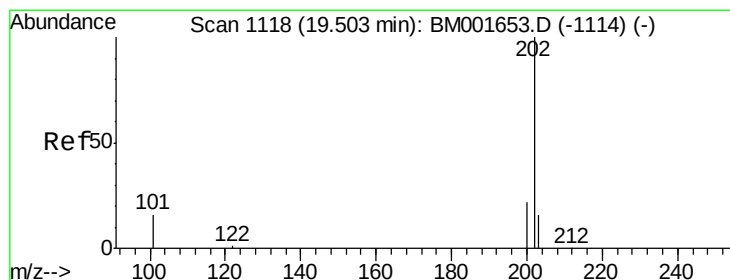
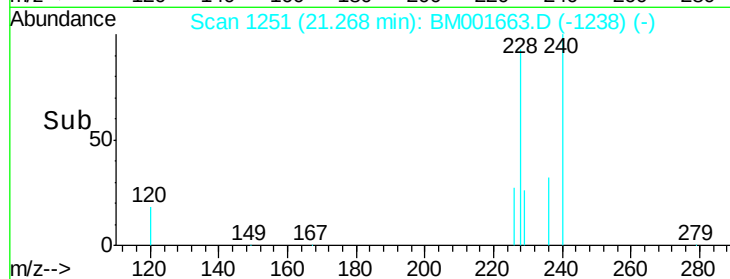
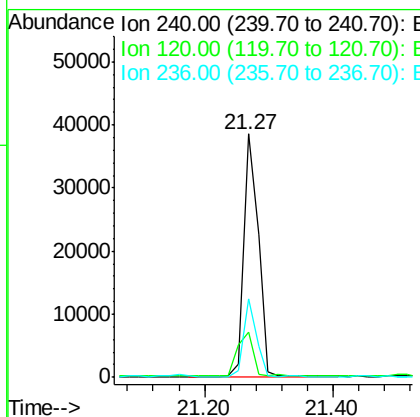
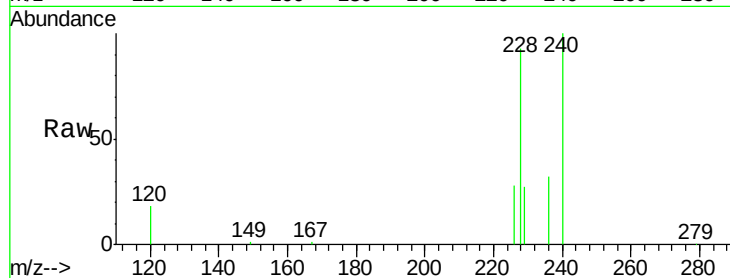
#25
Chrysene-d12
Concen: 5.00 ng
RT: 21.27 min Scan# 1251
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Instrument :
BNA_M
ClientSampleId :
FM2AMS

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	8.9	13.3#
236	32.1	24.6	36.8

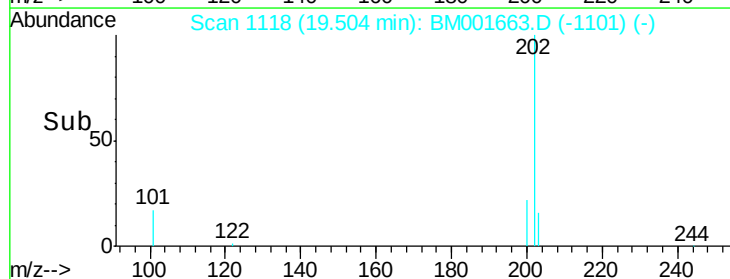
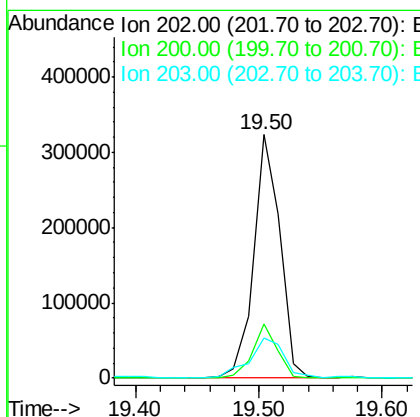
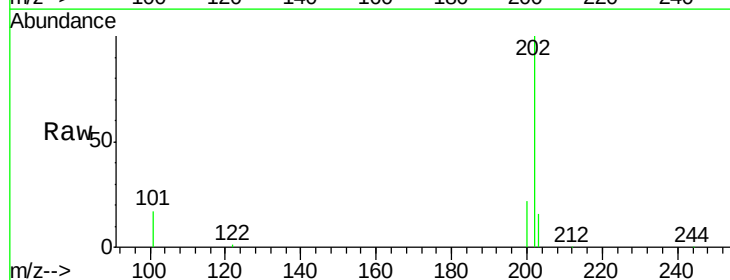
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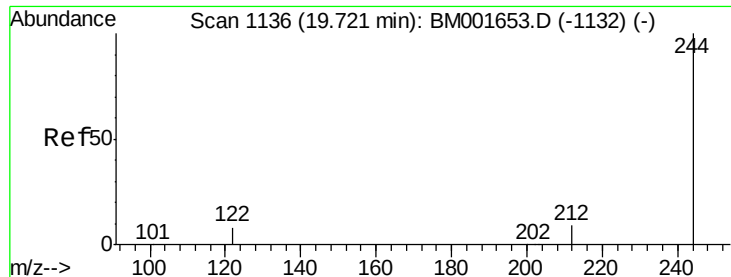
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#26
Pyrene
Concen: 23.44 ng
RT: 19.50 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	21.9	13.8	20.8#





#27

Terphenyl-d14

Concen: 1.90 ng

RT: 19.72 min Scan# 1136

Delta R.T. 0.00 min

Lab File: BM001663.D

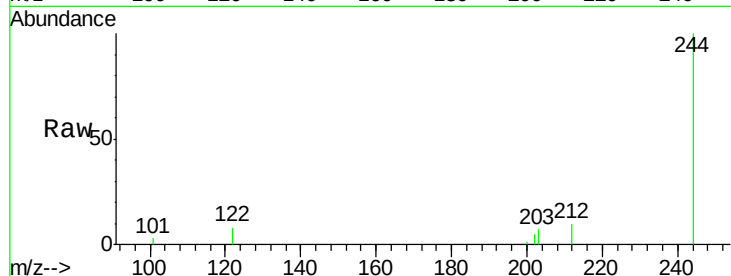
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

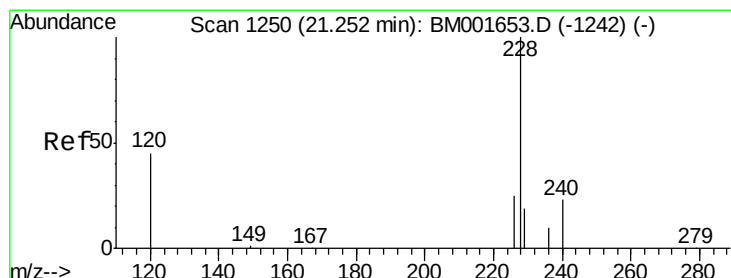
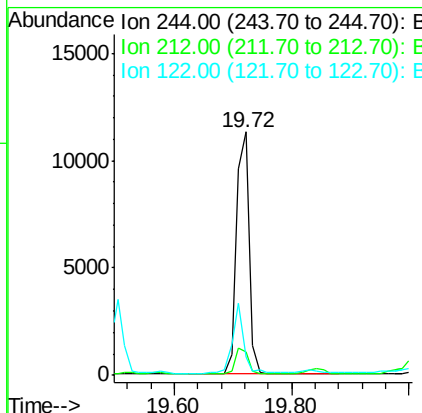
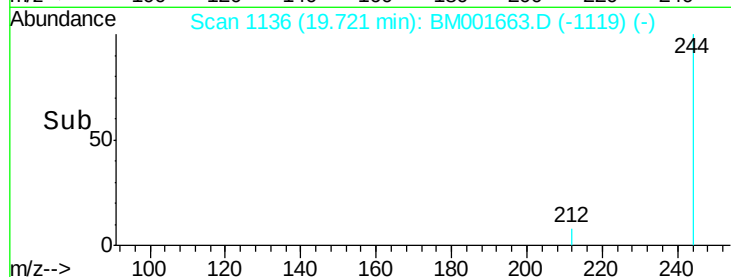
FM2AMS



Tgt Ion:	244	Resp:	17076
Ion Ratio	Lower	Upper	
244	100		
212	9.6	7.7	11.5
122	7.8	6.9	10.3

Manual Integrations
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#28

Benzo(a)anthracene

Concen: 12.97 ng

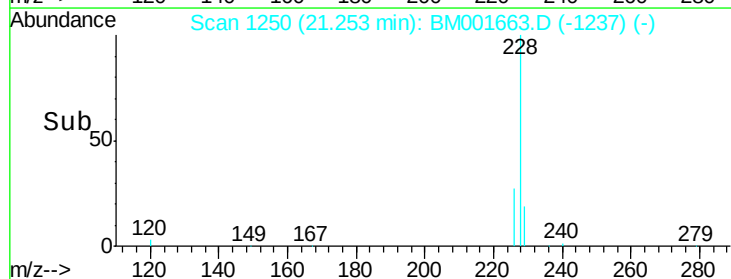
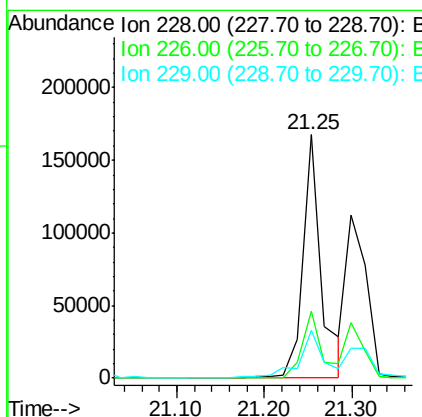
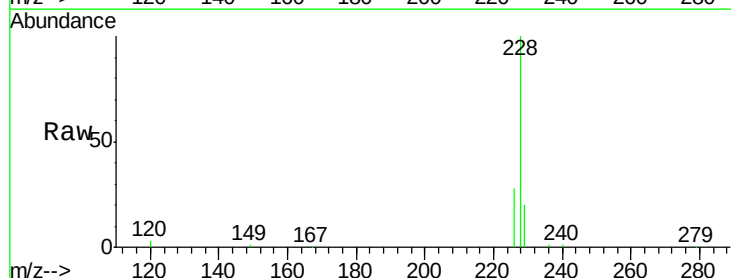
RT: 21.25 min Scan# 1250

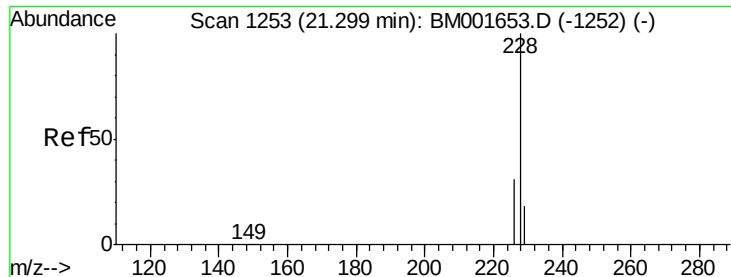
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	228	Resp:	242404
Ion Ratio	Lower	Upper	
228	100		
226	27.6	20.2	30.4
229	19.6	15.7	23.5





#29

Chrysene

Concen: 9.94 ng

RT: 21.30 min Scan# 1253

Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

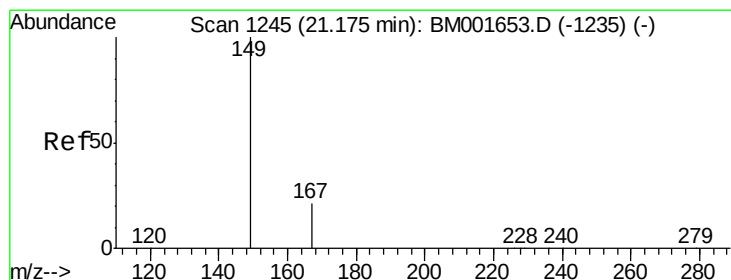
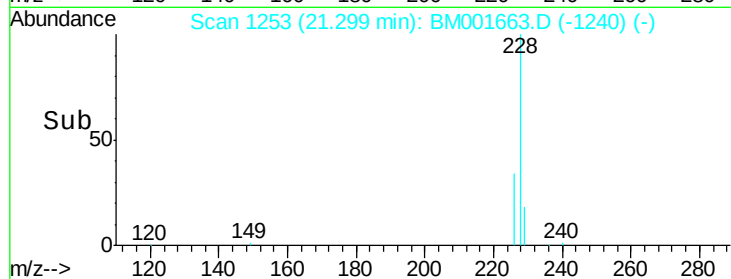
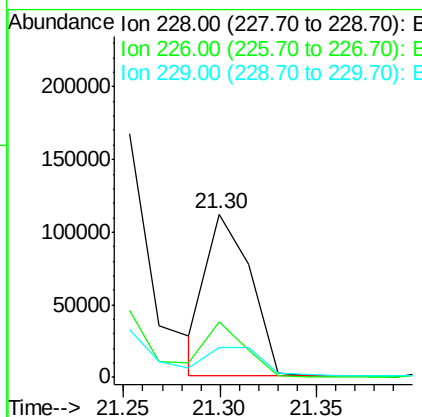
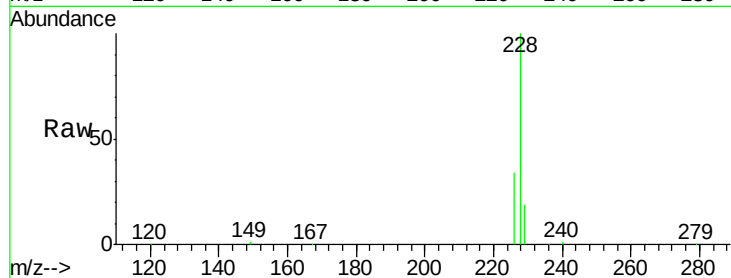
ClientSampleId :

FM2AMS

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Tgt Ion:	228	Resp:	177818
Ion	Ratio	Lower	Upper
228	100		
226	34.4	25.8	38.8
229	18.7	14.1	21.1



#30

Bis(2-ethylhexyl)phthalate

Concen: 2.08 ng

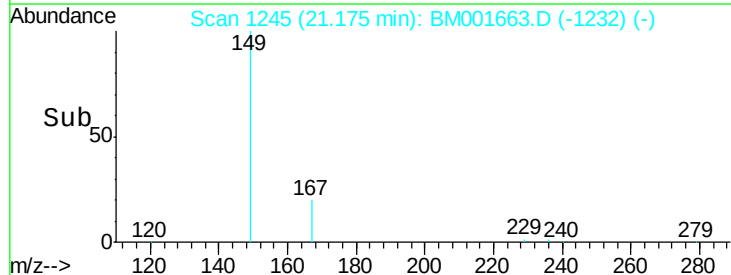
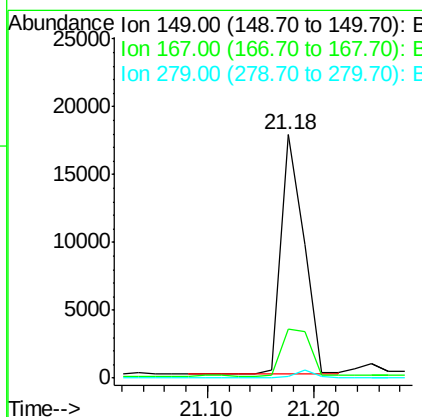
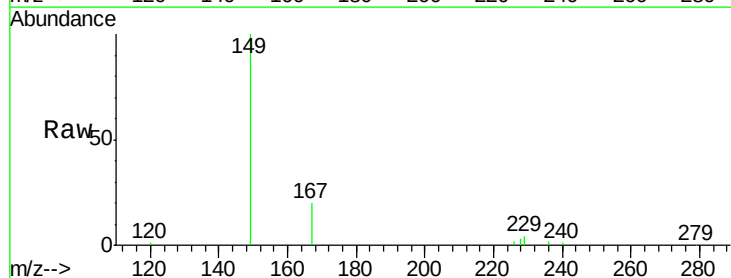
RT: 21.18 min Scan# 1245

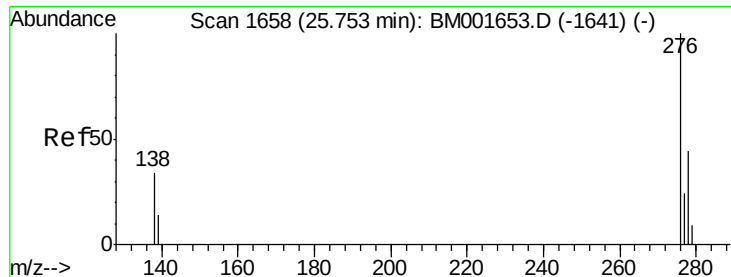
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	149	Resp:	25978
Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.2	30.2
279	2.1	1.7	2.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 7.69 ng

RT: 25.75 min Scan# 1658

Delta R.T. 0.00 min

Lab File: BM001663.D

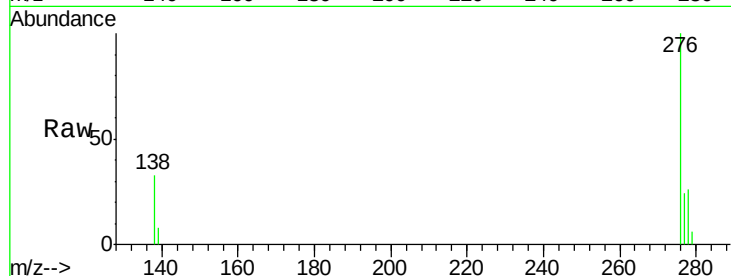
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

FM2AMS



Tgt Ion:276 Resp: 108062

Ion Ratio Lower Upper

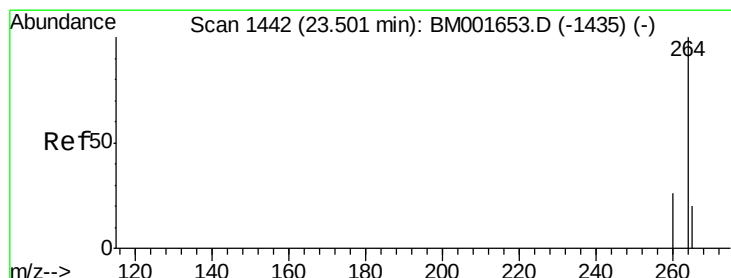
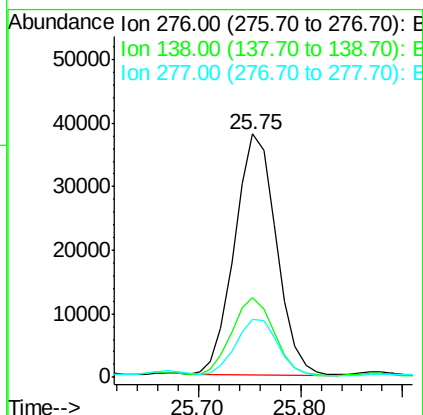
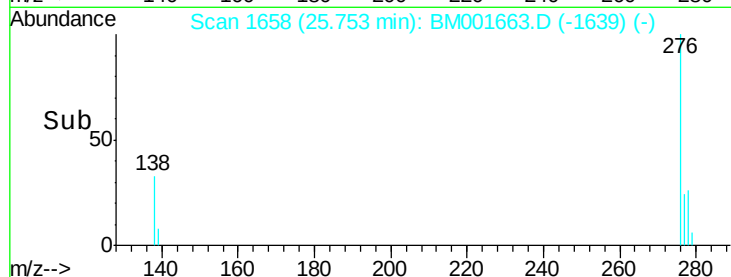
276 100

138 32.6 28.8 43.2

277 24.1 19.6 29.4

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#32

Perylene-d12

Concen: 5.00 ng

RT: 23.51 min Scan# 1443

Delta R.T. 0.01 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

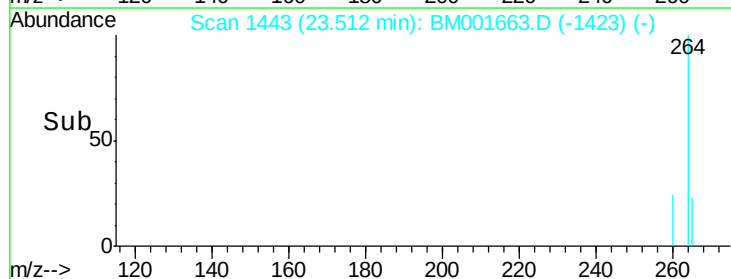
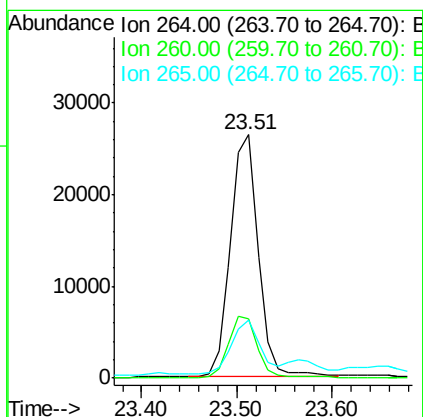
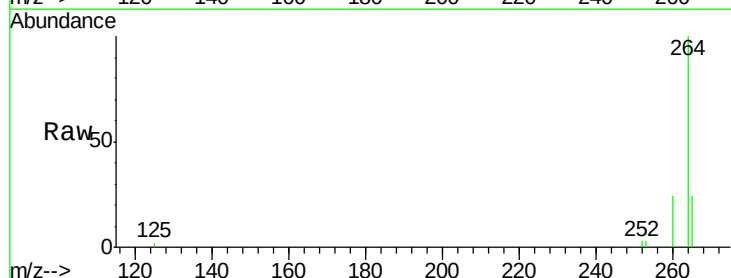
Tgt Ion:264 Resp: 53521

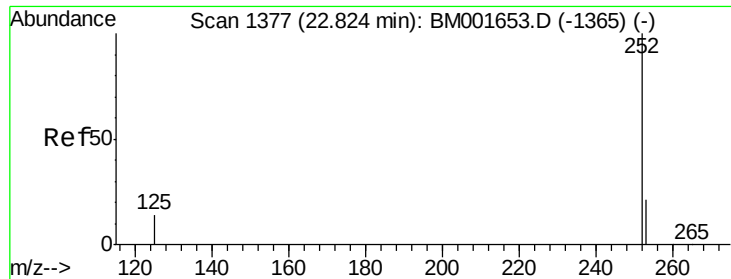
Ion Ratio Lower Upper

264 100

260 24.3 20.8 31.2

265 23.8 16.9 25.3





#33

Benzo(b)fluoranthene

Concen: 12.00 ng m

RT: 22.83 min Scan# 1378

Delta R.T. 0.01 min

Lab File: BM001663.D

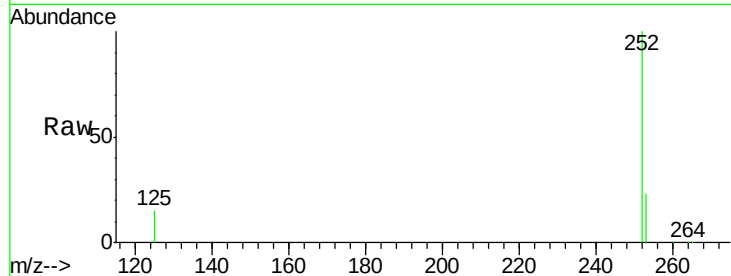
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

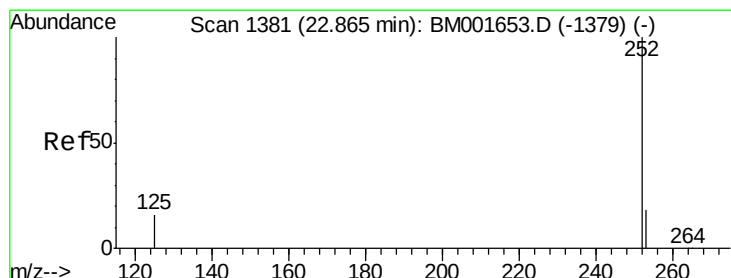
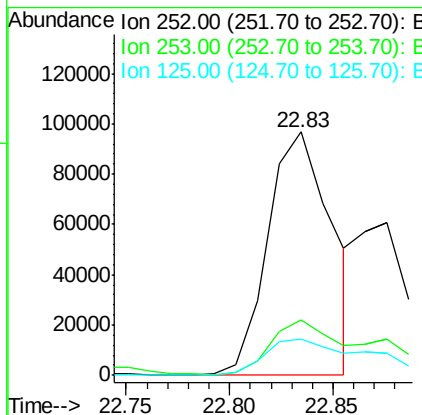
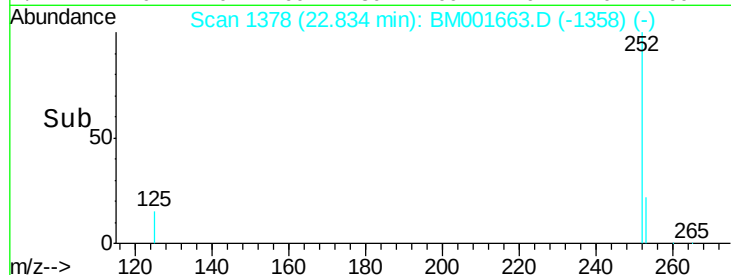
FM2AMS



Tgt Ion:	252	Resp:	209450
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.4	26.2
125	14.9	12.0	18.0

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#34

Benzo(k)fluoranthene

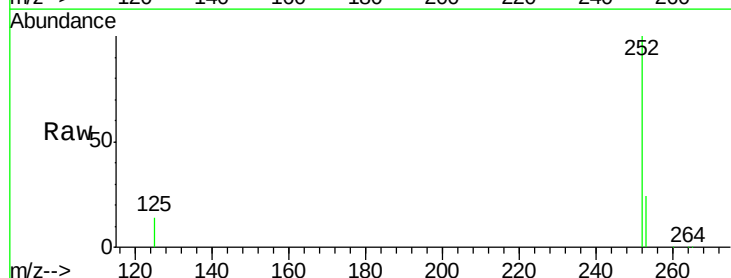
Concen: 5.87 ng m

RT: 22.88 min Scan# 1382

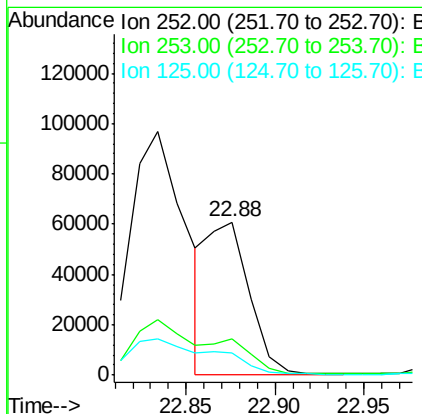
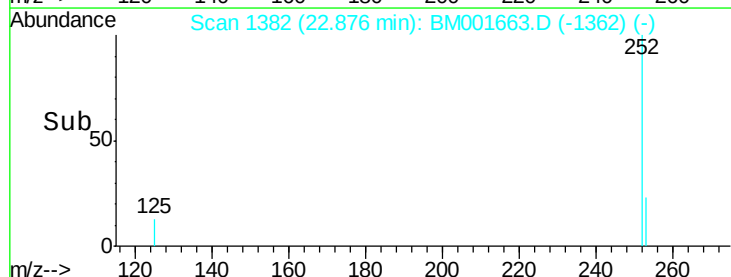
Delta R.T. 0.01 min

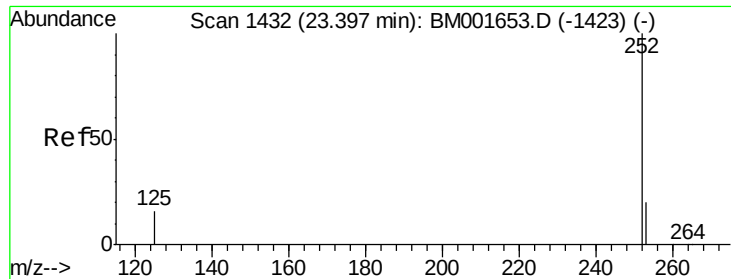
Lab File: BM001663.D

Acq: 12 Jun 2015 06:03



Tgt Ion:	252	Resp:	99527
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.0	25.6
125	14.1	12.5	18.7





#35

Benzo(a)pyrene

Concen: 11.14 ng

RT: 23.41 min Scan# 1433

Delta R.T. 0.01 min

Lab File: BM001663.D

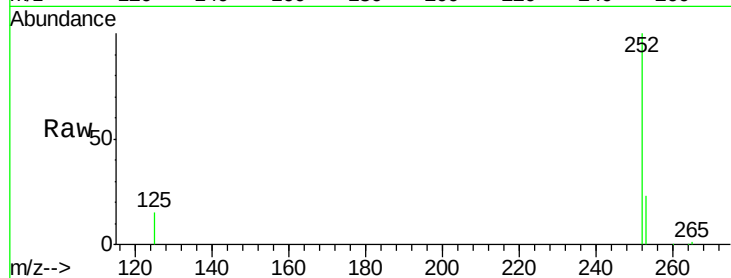
Acq: 12 Jun 2015 06:03

Instrument :

BNA_M

ClientSampleId :

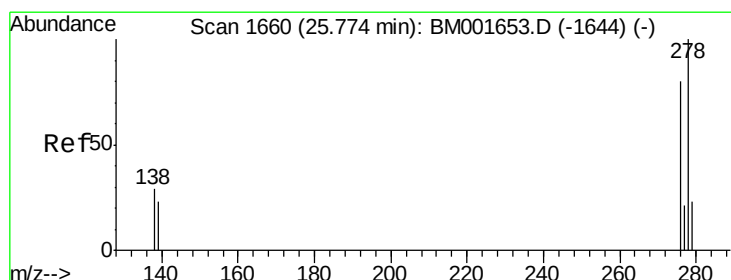
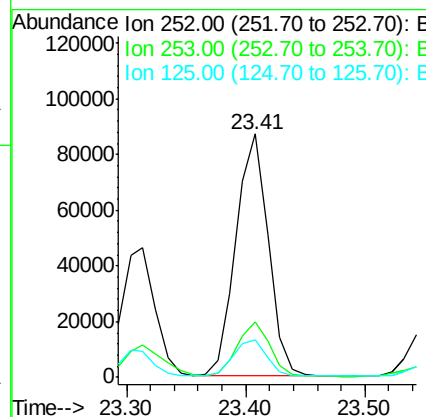
FM2AMS



Tgt Ion:	252	Resp:	162090
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.4	26.0
125	15.5	14.0	21.0

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#36

Dibenzo(a,h)anthracene

Concen: 3.47 ng

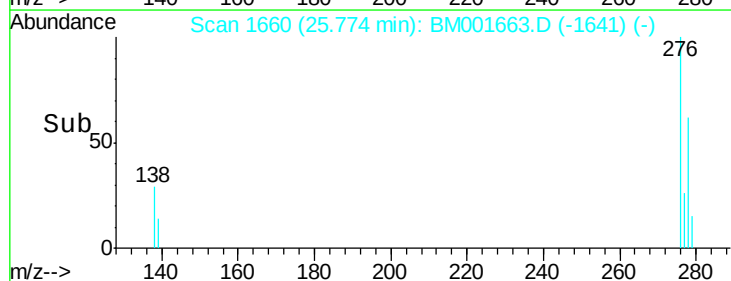
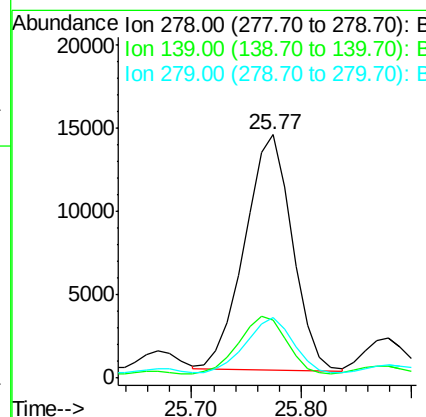
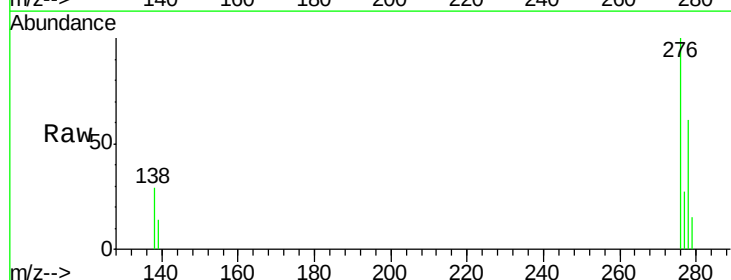
RT: 25.77 min Scan# 1660

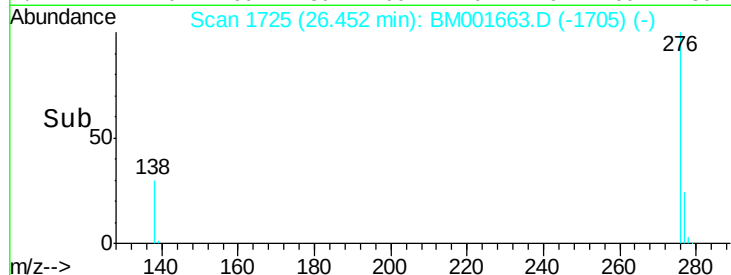
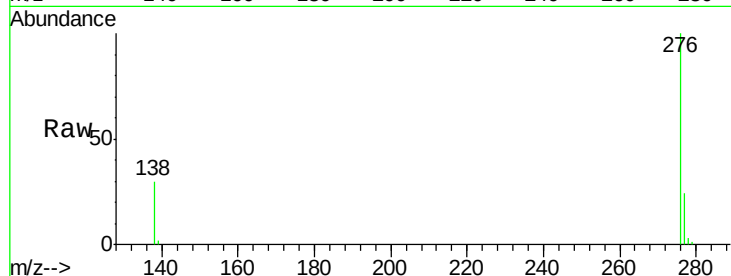
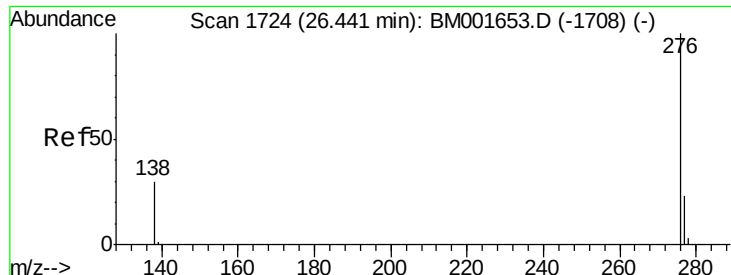
Delta R.T. 0.00 min

Lab File: BM001663.D

Acq: 12 Jun 2015 06:03

Tgt Ion:	278	Resp:	42413
Ion Ratio	Lower	Upper	
278	100		
139	23.6	19.1	28.7
279	24.8	19.7	29.5





#37
Benzo(g,h,i)perylene
Concen: 8.17 ng
RT: 26.45 min Scan# 1725
Delta R.T. 0.01 min
Lab File: BM001663.D
Acq: 12 Jun 2015 06:03

Tgt	Ion	276	Resp	101703
Ion	Ratio	Lower	Upper	
276	100			
277	24.0	19.3	28.9	
138	30.0	25.0	37.4	

Instrument :
BNA_M
ClientSampleId :
FM2AMS

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