

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
 Data File : BM001740.D
 Acq On : 18 Jun 2015 17:12
 Operator : TP/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

apatel
 6/22/2015 2:45:00 PM

Quant Time: Jun 19 05:01:37 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 04:18:06 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	14729	5.00	ng	0.00
6) Naphthalene-d8	10.46	136	55921	5.00	ng	0.00
12) Acenaphthene-d10	14.32	164	27849	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	45784	5.00	ng	0.00
25) Chrysene-d12	21.25	240	49116	5.00	ng	0.00
32) Perylene-d12	23.48	264	44918	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.25	112	35001	9.99	ng	0.00
5) Phenol-d6	6.83	99	46968	10.65	ng	0.00
7) Nitrobenzene-d5	8.83	82	46488	10.79	ng	0.00
13) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ng	0.00
14) 2-Fluorobiphenyl	12.93	172	92603	9.43	ng	0.00
27) Terphenyl-d14	19.69	244	71091	9.64	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.18	88	15243	8.21	ng	94
3) n-Nitrosodimethylamine	3.48	42	27478	10.65	ng	94
8) Nitrobenzene	8.87	77	51869	11.12	ng	98
9) Naphthalene	10.49	128	128869	9.44	ng	99
10) Hexachlorobutadiene	10.78	225	21270	9.37	ng	99
11) 2-Methylnaphthalene	12.12	142	85120	9.69	ng	92
15) Acenaphthylene	14.03	152	141419	10.80	ng	100
16) Acenaphthene	14.38	154	79797	9.57	ng	99
17) Fluorene	15.36	166	52911	6.26	ng	# 21
19) 4-Bromophenyl-phenylether	16.25	248	40369	9.85	ng	# 56
20) Hexachlorobenzene	16.35	284	15558	4.09	ng	# 100
22) Phenanthrene	17.10	178	190865	12.57	ng	96
23) Anthracene	17.20	178	73653m	4.51	ng	
26) Pyrene	19.49	202	172190	10.22	ng	100
28) Benzo(a)anthracene	21.23	228	152583	9.92	ng	93
29) Chrysene	21.30	228	144153m	9.67	ng	
30) Bis(2-ethylhexyl)phthalate	21.17	149	107470	11.26	ng	98
31) Indeno(1,2,3-cd)pyrene	25.71	276	155029	12.76	ng	100
33) Benzo(b)fluoranthene	22.81	252	152816	10.35	ng	98
34) Benzo(k)fluoranthene	22.85	252	127234	9.00	ng	98
35) Benzo(a)pyrene	23.37	252	128061	10.42	ng	97
36) Dibenzo(a,h)anthracene	25.73	278	124386	11.71	ng	98
37) Benzo(g,h,i)perylene	26.40	276	126445	11.07	ng	99

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

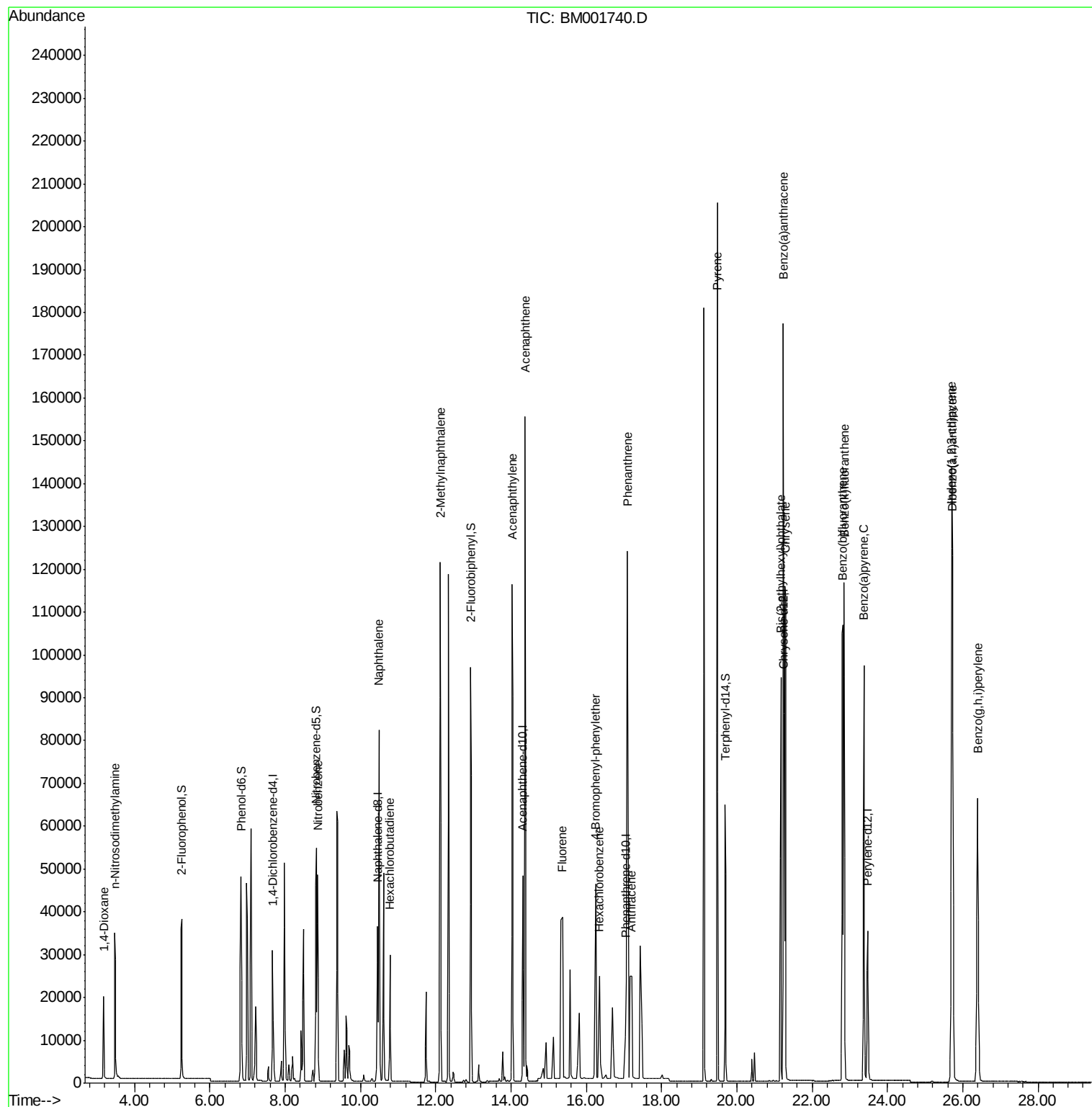
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
Data File : BM001740.D
Acq On : 18 Jun 2015 17:12
Operator : TP/IZ
Sample : SSTDIC010
Misc :
ALS Vial : 3 Sample Multiplier: 1

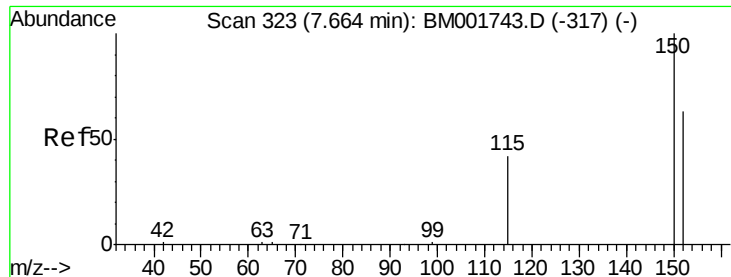
Instrument :
BNA_M
ClientSampleId :
SSTDIC010

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM

Quant Time: Jun 19 05:01:37 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 04:18:06 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.66 min Scan# 323

Delta R.T. 0.00 min

Lab File: BM001740.D

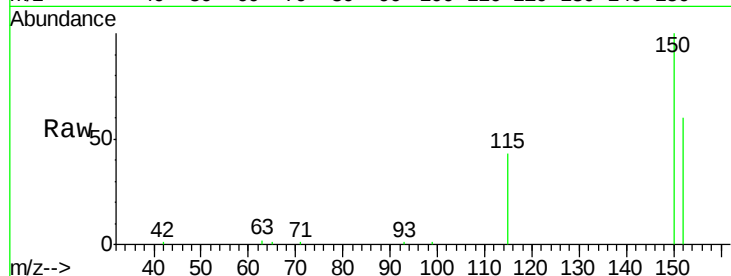
Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleId :

SSTDIC010



Tgt Ion:152 Resp: 14729

Ion Ratio Lower Upper

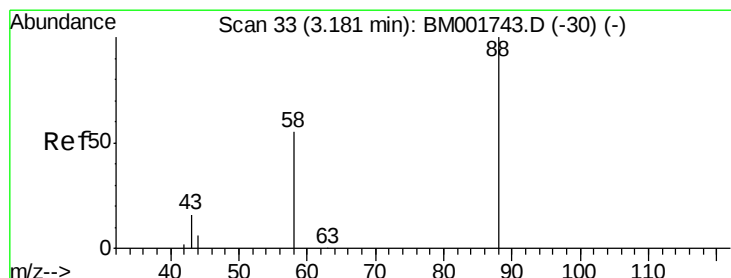
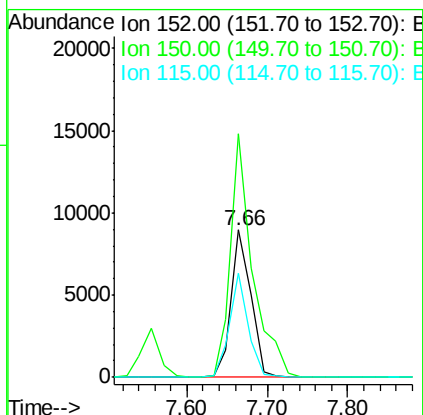
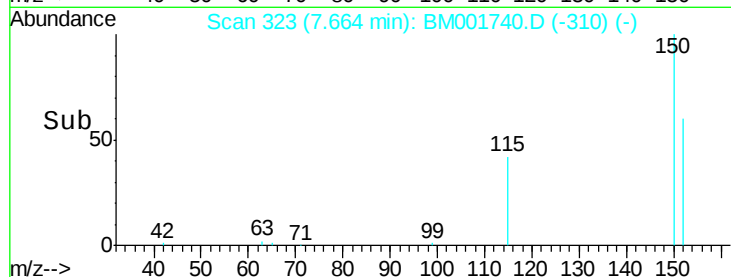
152 100

150 165.6 127.5 191.3

115 70.7 53.2 79.8

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#2

1,4-Dioxane

Concen: 8.21 ng

RT: 3.18 min Scan# 33

Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

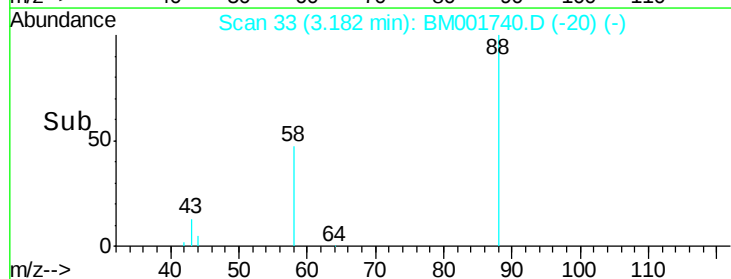
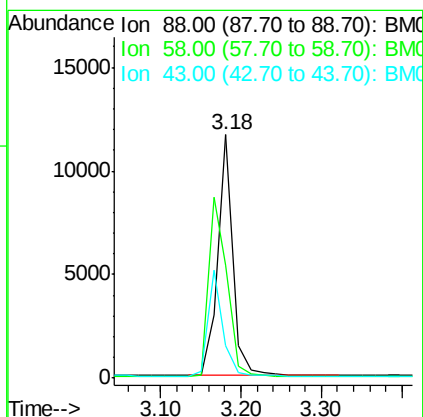
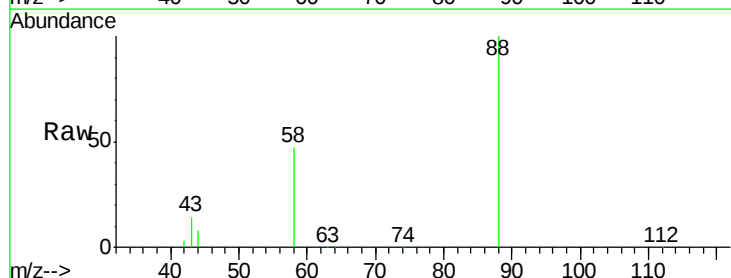
Tgt Ion: 88 Resp: 15243

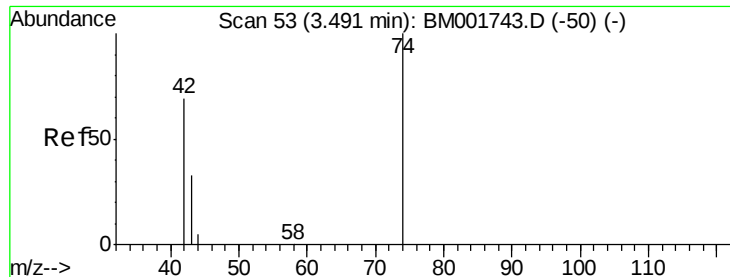
Ion Ratio Lower Upper

88 100

58 91.8 68.3 102.5

43 43.3 32.6 48.8





#3

n-Nitrosodimethylamine

Concen: 10.65 ng

RT: 3.48 min Scan# 52

Delta R.T. -0.02 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleID :

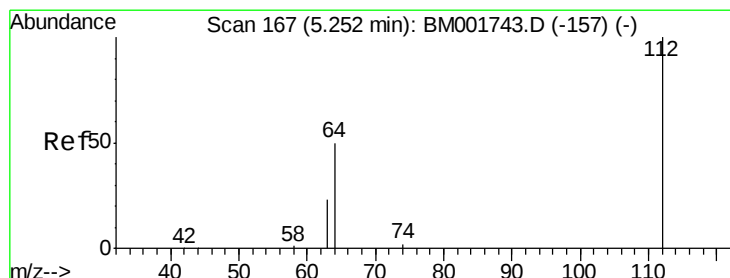
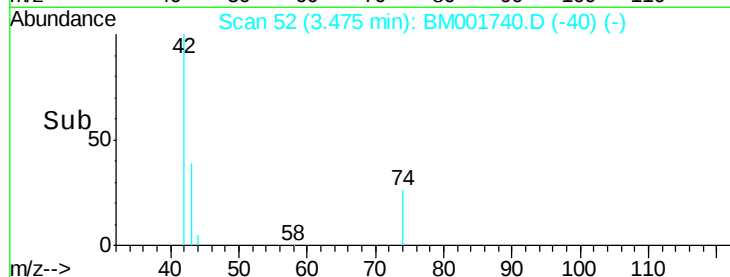
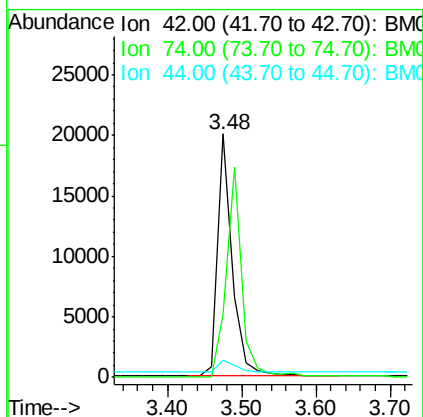
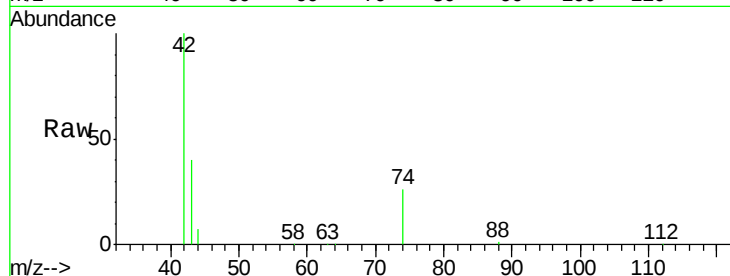
SSTDICC010

Manual Integrations
APPROVED

apatel

6/22/2015 2:45:00 PM

Tgt Ion:	42	Resp:	27478
Ion	Ratio	Lower	Upper
42	100		
74	92.3	78.6	118.0
44	6.0	5.0	7.6



#4

2-Fluorophenol

Concen: 9.99 ng

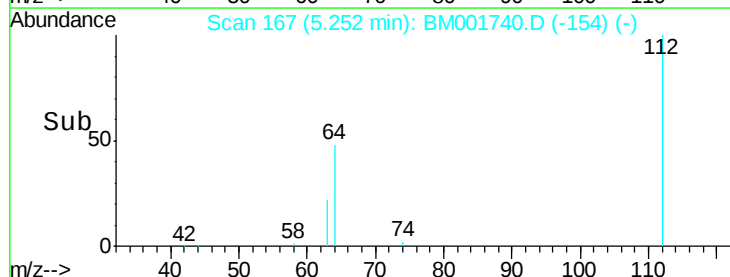
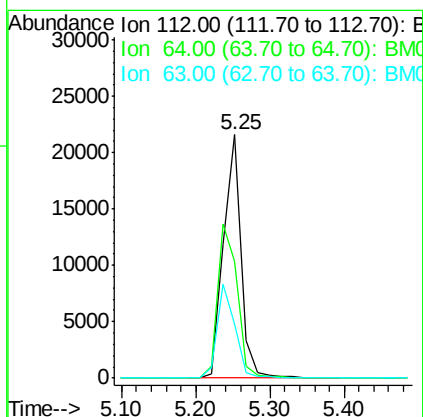
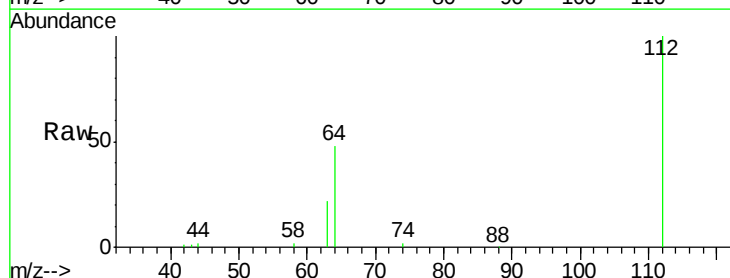
RT: 5.25 min Scan# 167

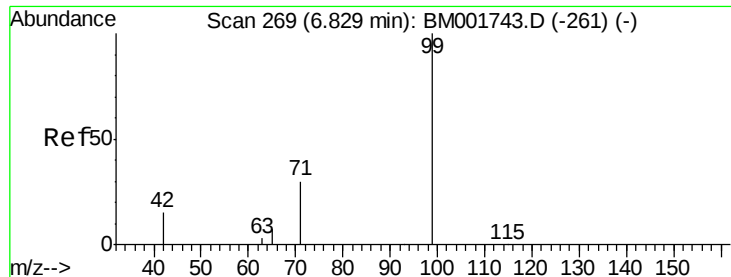
Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion:	112	Resp:	35001
Ion	Ratio	Lower	Upper
112	100		
64	70.1	55.6	83.4
63	38.5	30.2	45.2





#5

Phenol-d6

Concen: 10.65 ng

RT: 6.83 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

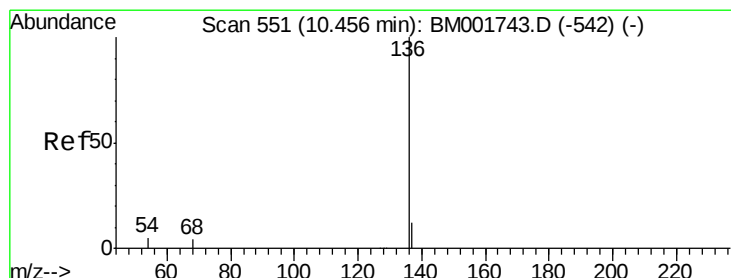
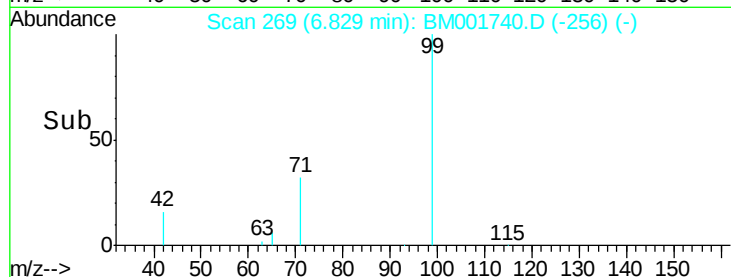
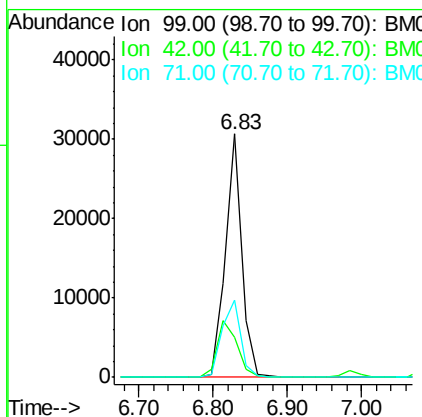
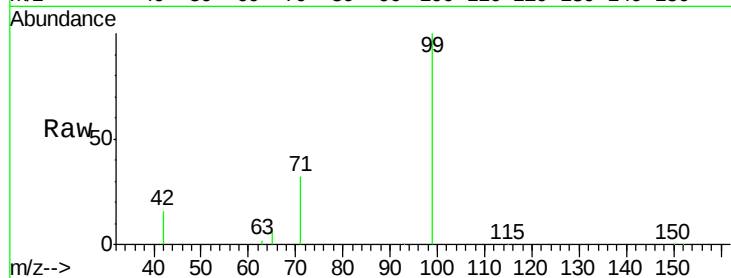
ClientSampleId :

SSTDIC010

Tgt Ion:	99	Resp:	46968
Ion Ratio	Lower	Upper	
99	100		
42	27.8	21.4	32.0
71	36.0	28.3	42.5

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#6

Naphthalene-d8

Concen: 5.00 ng

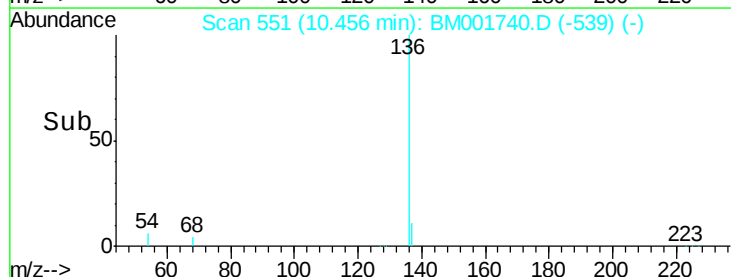
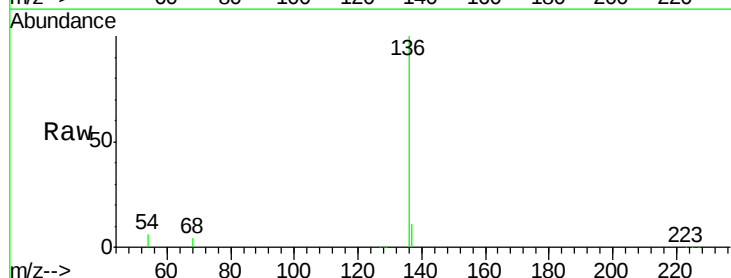
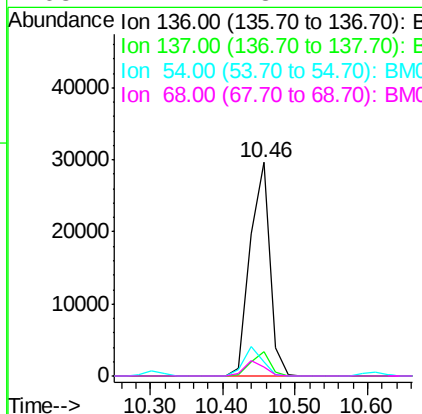
RT: 10.46 min Scan# 551

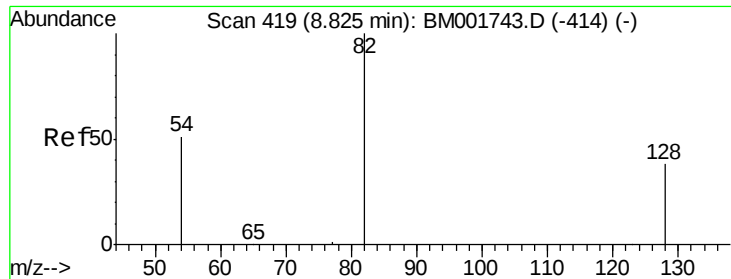
Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion:	136	Resp:	55921
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.4	14.0
54	6.5	4.4	6.6
68	4.4	3.1	4.7





#7

Nitrobenzene-d5

Concen: 10.79 ng

RT: 8.83 min Scan# 419

Delta R.T. 0.00 min

Lab File: BM001740.D

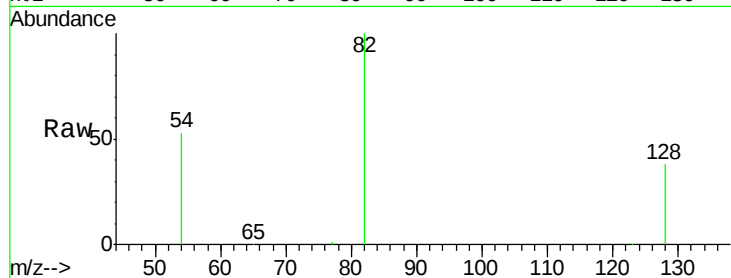
Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleId :

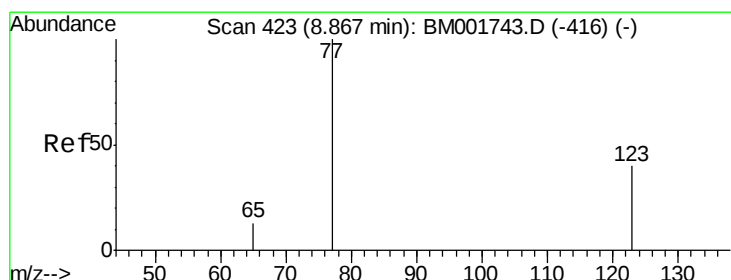
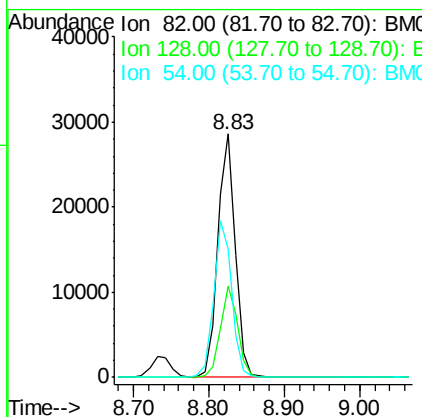
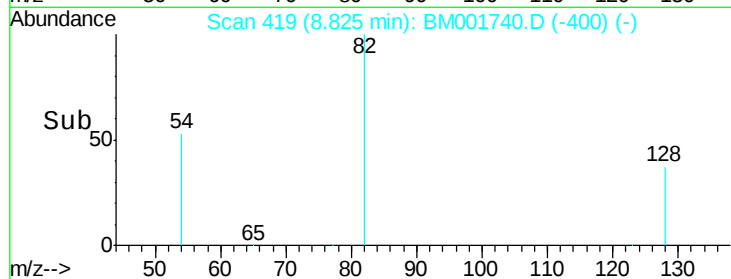
SSTDICC010



Tgt Ion:	82	Resp:	46488
Ion Ratio	Lower	Upper	
82	100		
128	37.6	31.3	46.9
54	52.8	41.9	62.9

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#8

Nitrobenzene

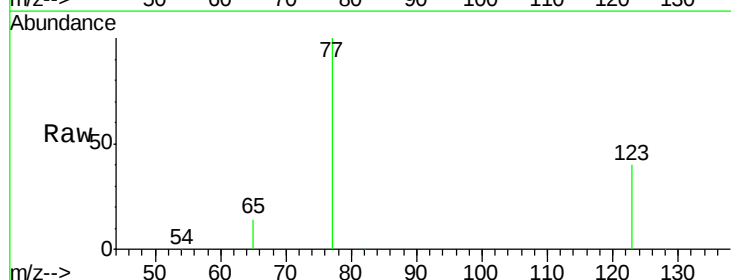
Concen: 11.12 ng

RT: 8.87 min Scan# 423

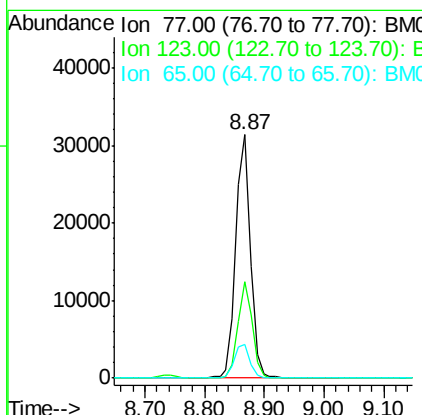
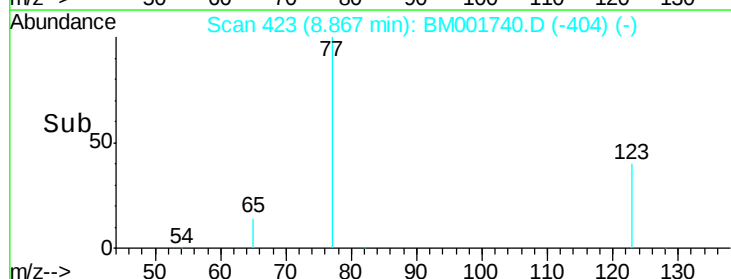
Delta R.T. 0.00 min

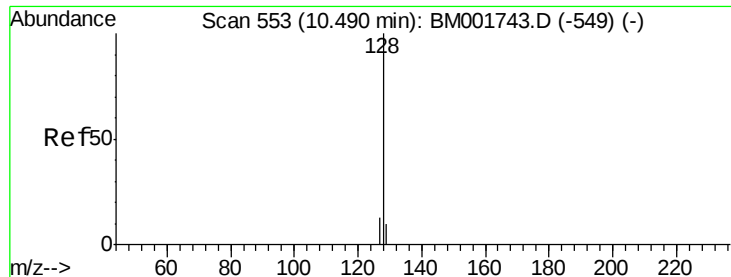
Lab File: BM001740.D

Acq: 18 Jun 2015 17:12



Tgt Ion:	77	Resp:	51869
Ion Ratio	Lower	Upper	
77	100		
123	38.6	30.1	45.1
65	14.6	11.3	16.9





#9

Naphthalene

Concen: 9.44 ng

RT: 10.49 min Scan# 553

Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

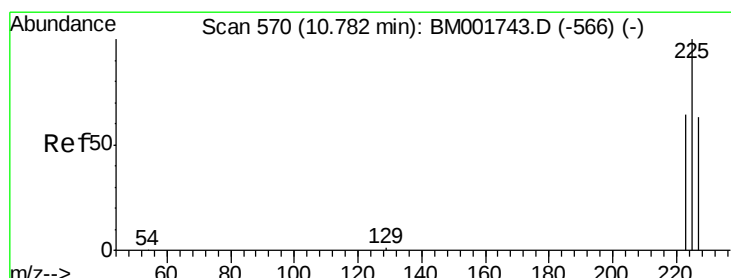
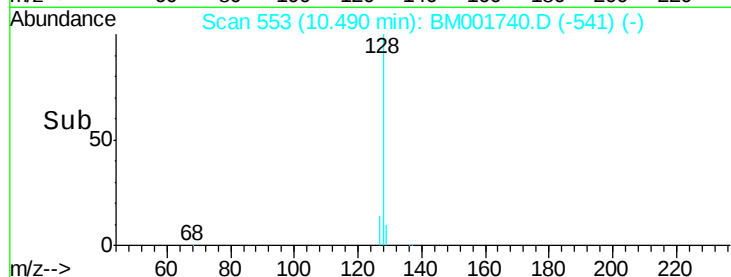
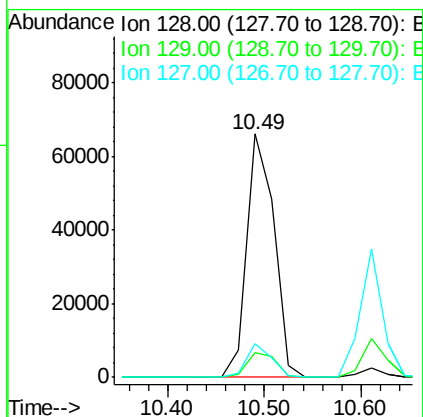
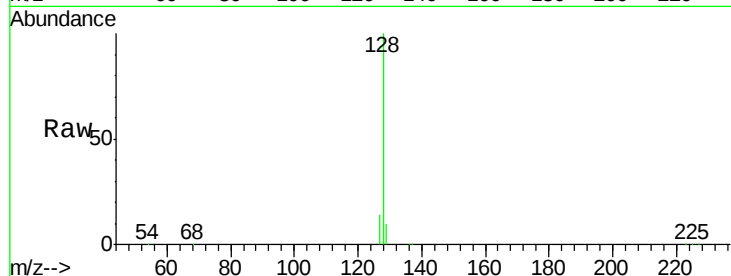
ClientSampleId :

SSTDIC010

Tgt Ion:	128	Resp:	128869
Ion Ratio	Lower	Upper	
128	100		
129	10.1	8.7	13.1
127	13.8	11.2	16.8

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#10

Hexachlorobutadiene

Concen: 9.37 ng

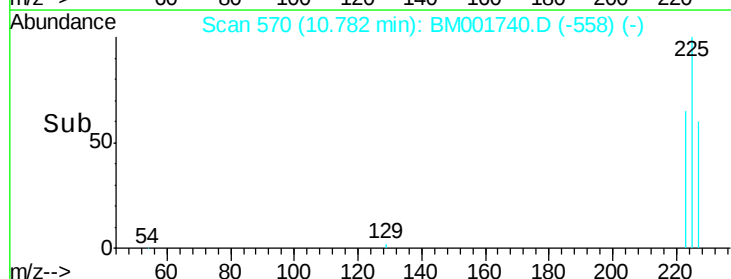
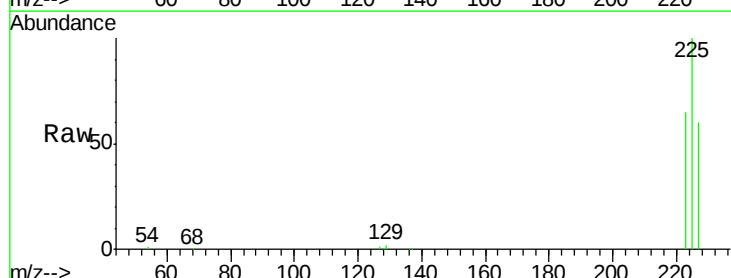
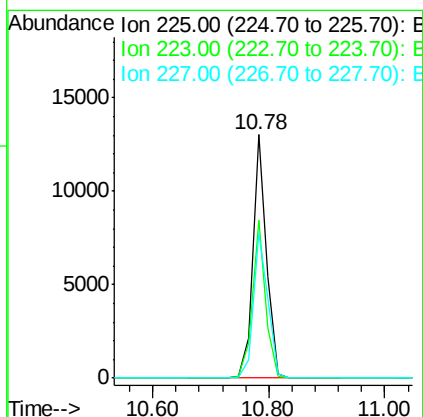
RT: 10.78 min Scan# 570

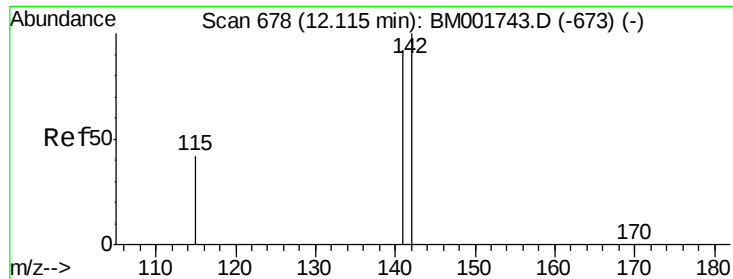
Delta R.T. 0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion:	225	Resp:	21270
Ion Ratio	Lower	Upper	
225	100		
223	62.8	51.0	76.4
227	63.4	51.8	77.8





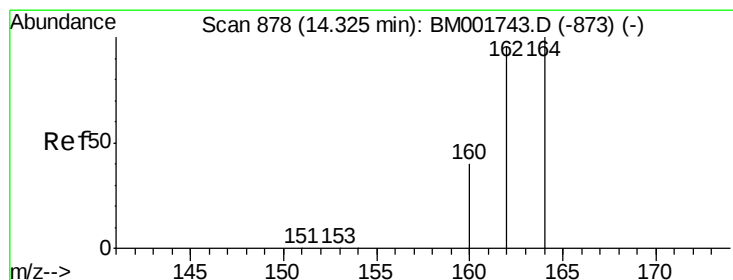
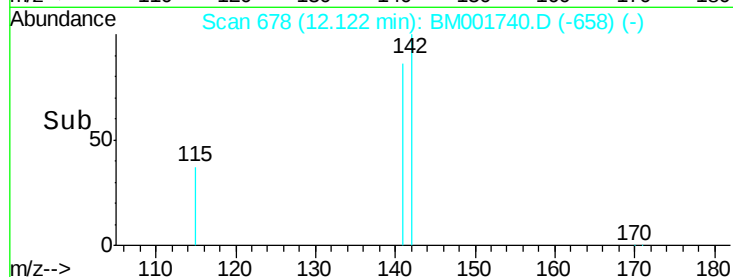
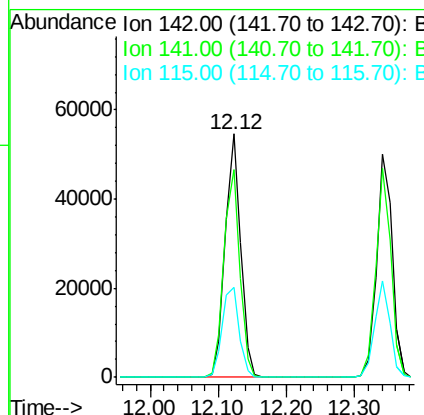
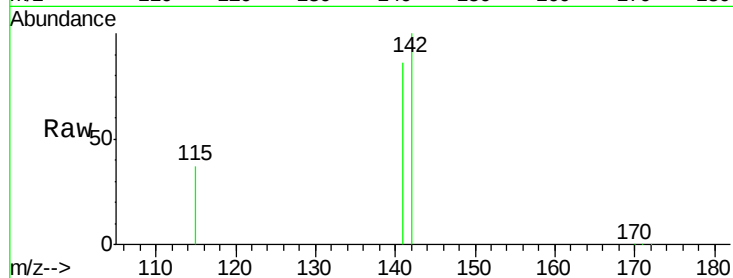
#11
2-Methylnaphthalene
Concen: 9.69 ng
RT: 12.12 min Scan# 678
Delta R.T. 0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Instrument :
BNA_M
ClientSampleId :
SSTDIC010

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.5	73.6	110.4
115	36.8	34.1	51.1

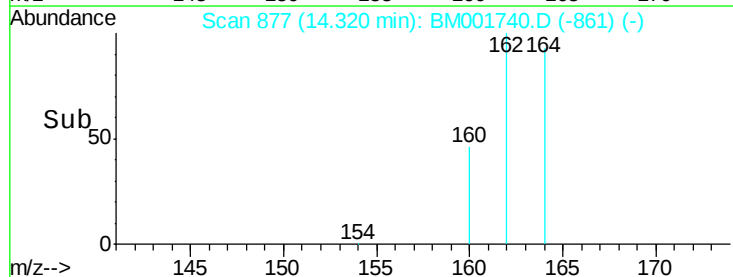
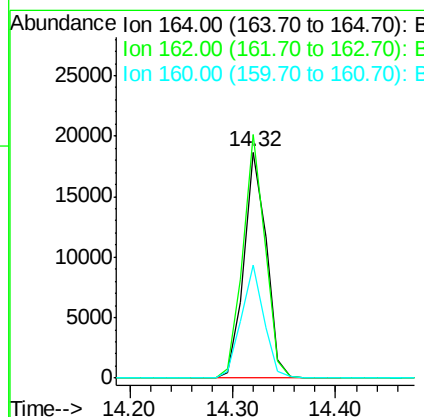
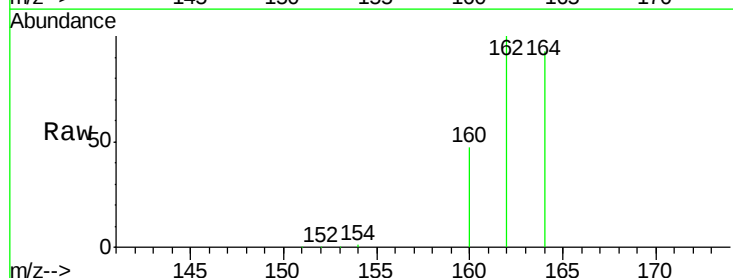
Manual Integrations
APPROVED

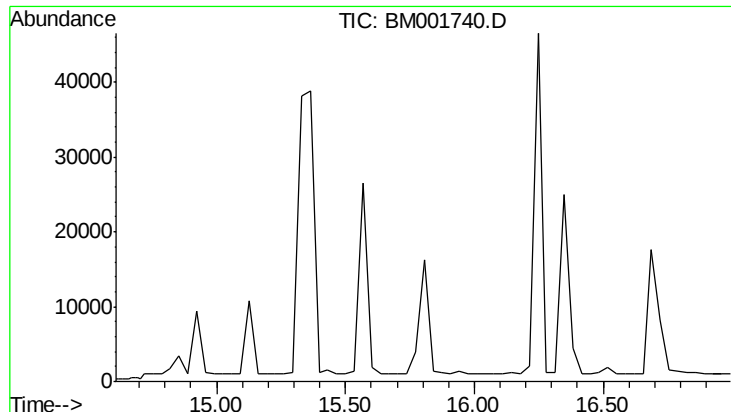
apatel
6/22/2015 2:45:00 PM



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.32 min Scan# 877
Delta R.T. -0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.6	76.6	114.8
160	50.1	31.8	47.8#





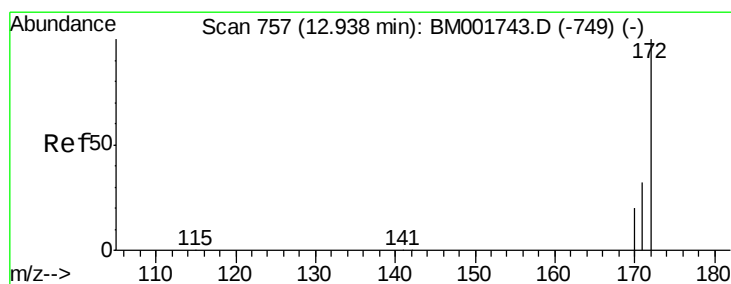
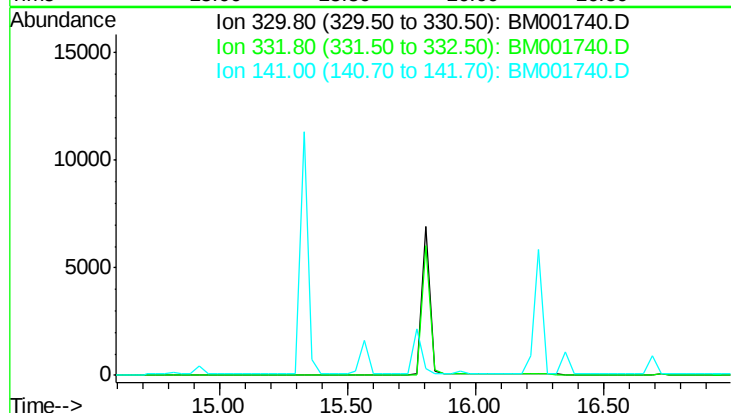
#13
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 15.80 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC010

Tgt Ion: 330
 Sig Exp Ratio
 330 100
 332 82.3
 141 0.0

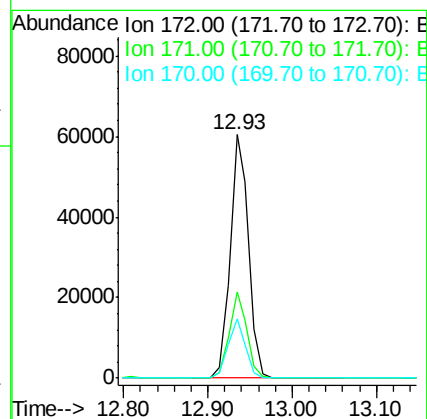
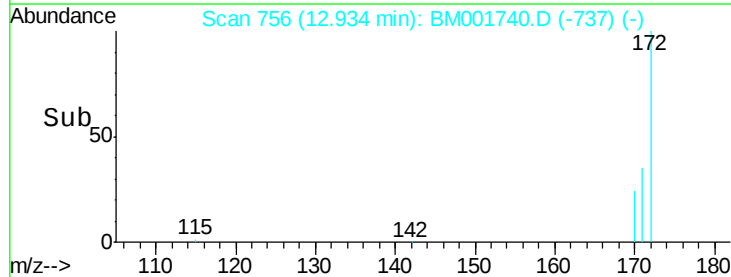
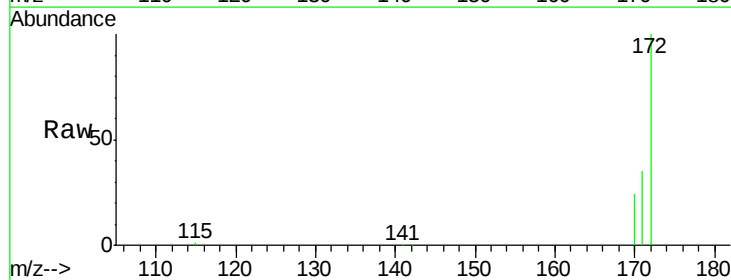
Manual Integrations
 APPROVED

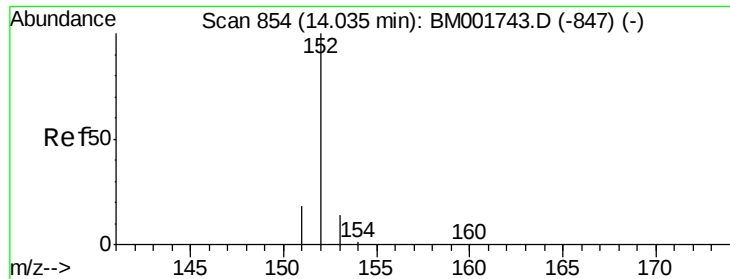
apatel
 6/22/2015 2:45:00 PM



#14
 2-Fluorobiphenyl
 Concen: 9.43 ng
 RT: 12.93 min Scan# 756
 Delta R.T. -0.00 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Tgt Ion: 172 Resp: 92603
 Ion Ratio Lower Upper
 172 100
 171 35.3 26.2 39.2
 170 24.5 16.6 24.8





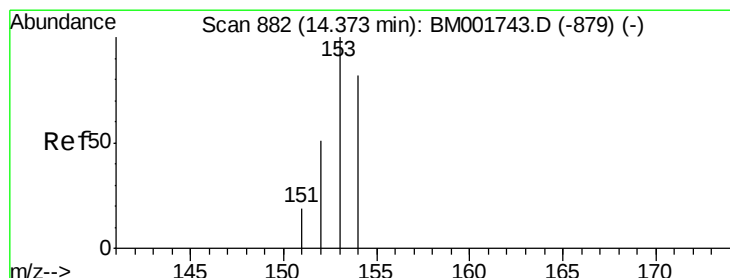
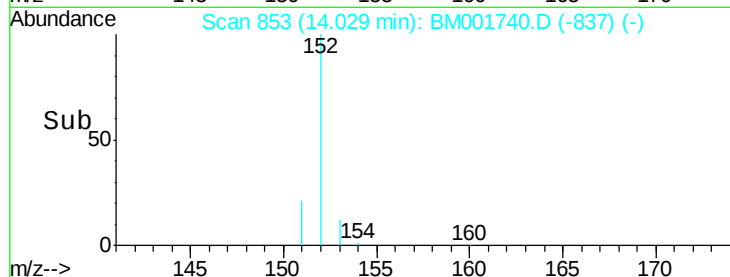
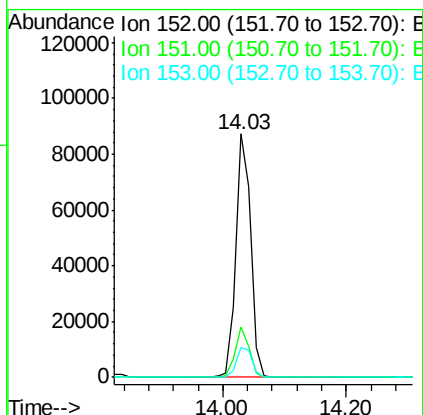
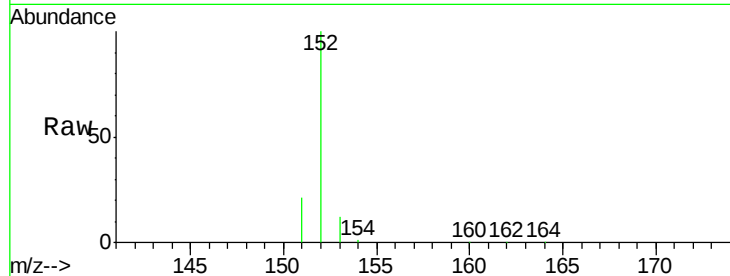
#15
Acenaphthylene
Concen: 10.80 ng
RT: 14.03 min Scan# 853
Delta R.T. -0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.4	23.2
153	12.9	10.4	15.6

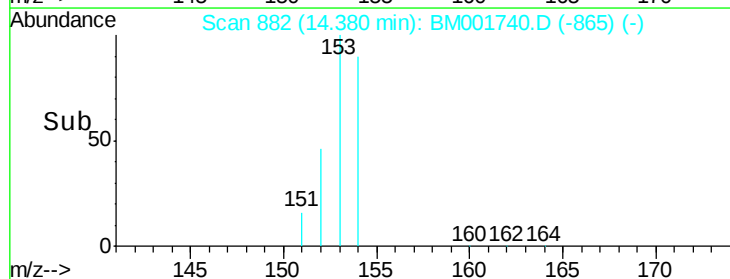
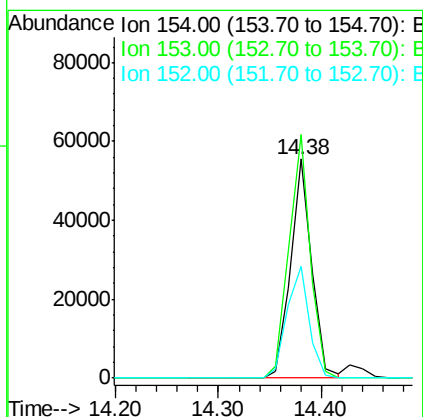
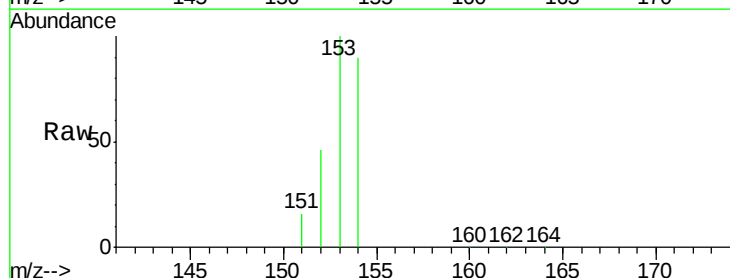
Manual Integrations
APPROVED

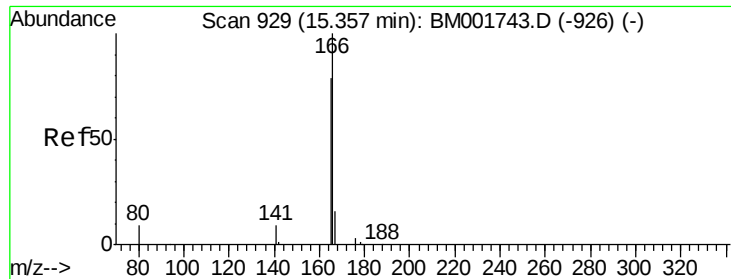
apatel
6/22/2015 2:45:00 PM



#16
Acenaphthene
Concen: 9.57 ng
RT: 14.38 min Scan# 882
Delta R.T. 0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.5	90.0	135.0
152	53.7	44.2	66.4





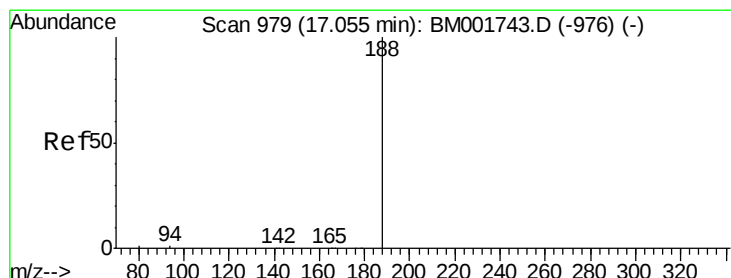
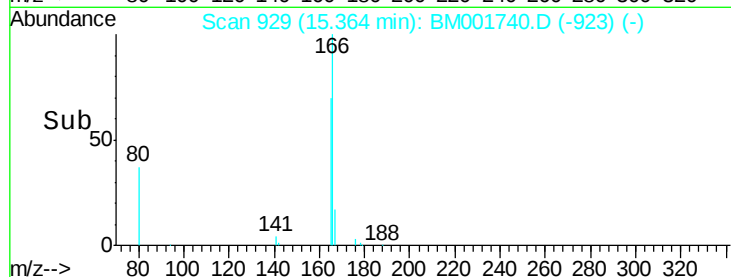
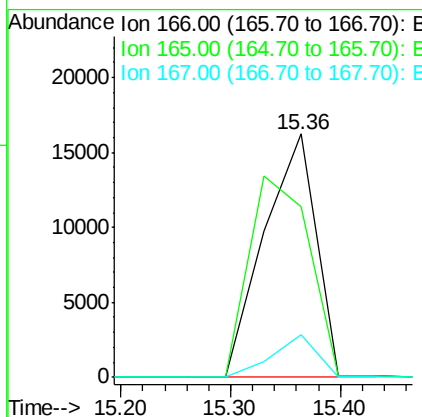
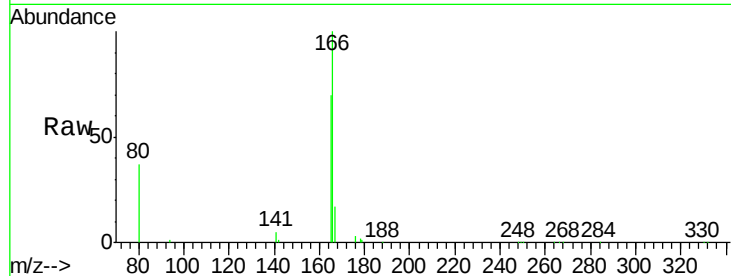
#17
Fluorene
 Concen: 6.26 ng
 RT: 15.36 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	68.2	102.2#
167	14.4	12.2	18.2

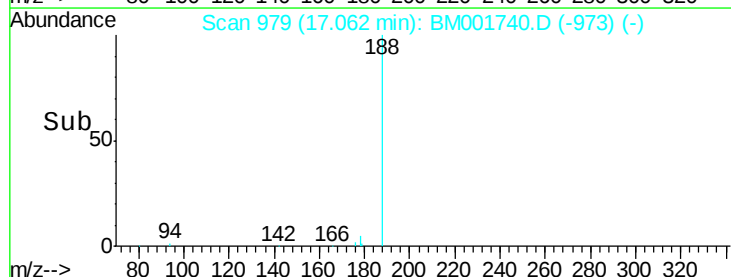
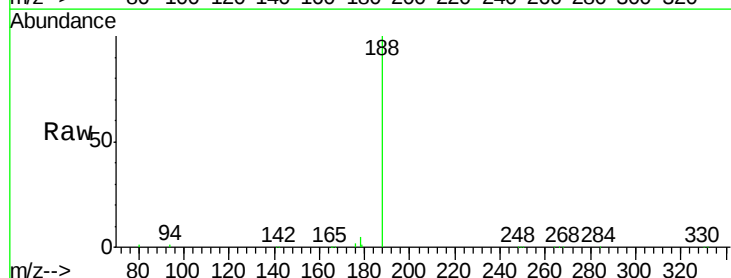
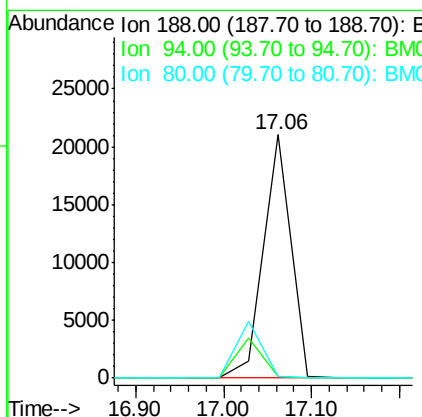
Manual Integrations
 APPROVED

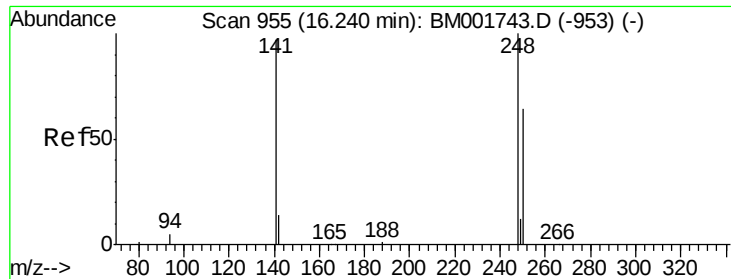
apatel
 6/22/2015 2:45:00 PM



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.06 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.9	1.3	1.9#
80	0.7	1.0	1.6#





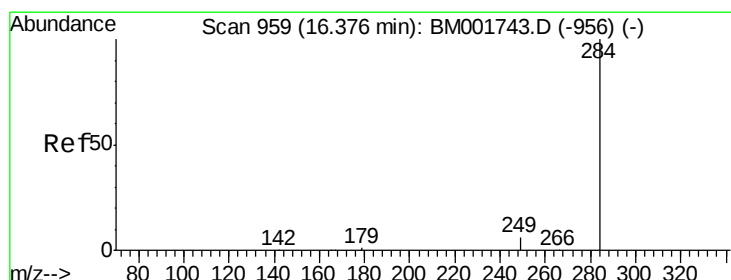
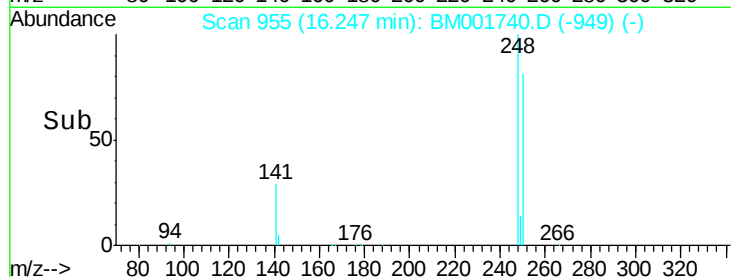
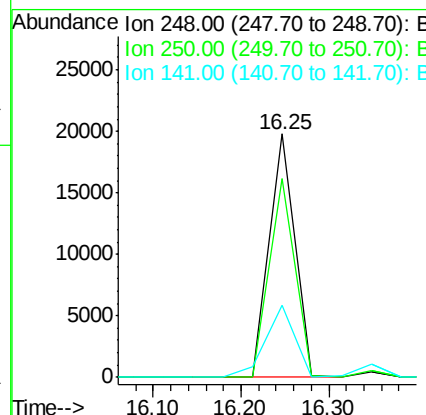
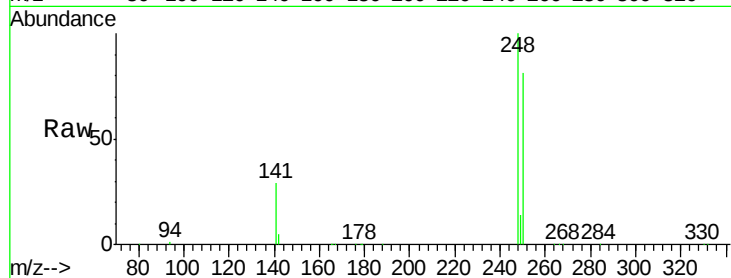
#19
4-Bromophenyl-phenylether
Concen: 9.85 ng
RT: 16.25 min Scan# 955
Delta R.T. 0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Tgt Ion	Ratio	Lower	Upper
248	100		
250	81.8	54.8	82.2
141	33.6	76.2	114.4

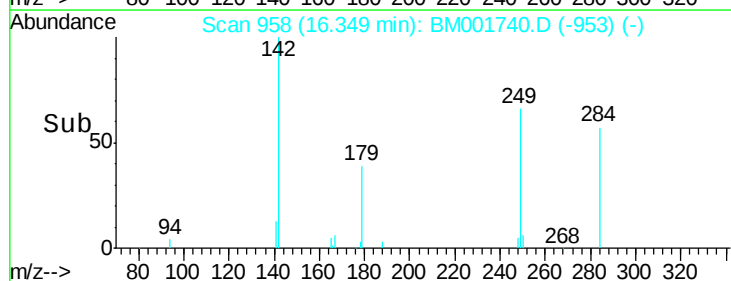
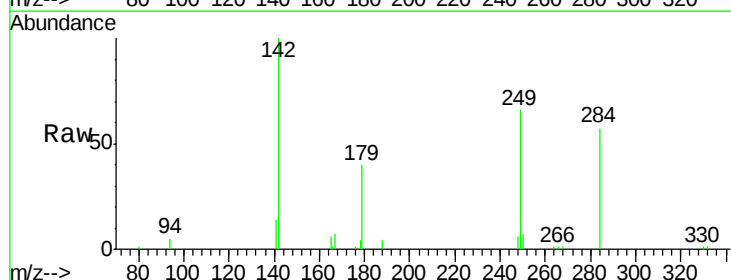
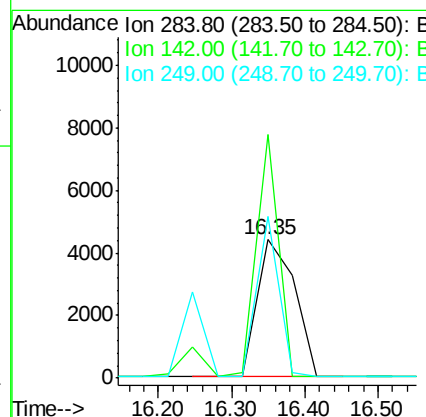
Manual Integrations
APPROVED

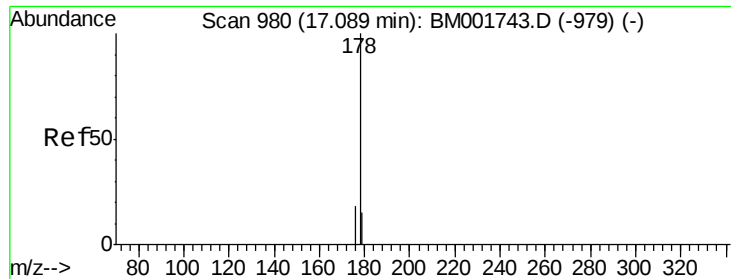
apatel
6/22/2015 2:45:00 PM



#20
Hexachlorobenzene
Concen: 4.09 ng
RT: 16.35 min Scan# 958
Delta R.T. -0.03 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	103.1	0.0	0.0
249	68.6	0.0	0.0





#22

Phenanthrene

Concen: 12.57 ng

RT: 17.10 min Scan# 980

Delta R.T. 0.01 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

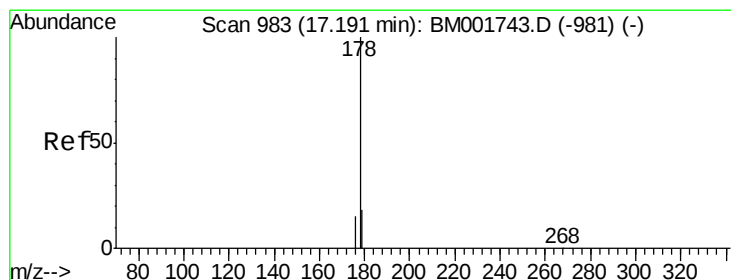
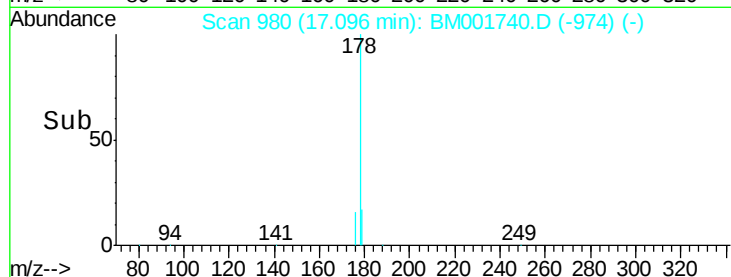
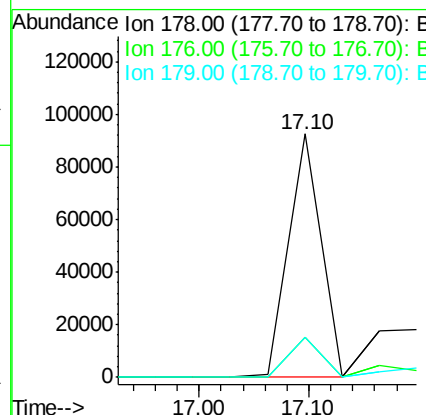
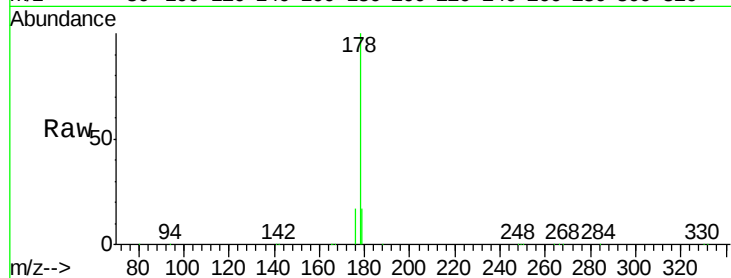
Instrument :
BNA_M

ClientSampleId :
SSTDICC010

Tgt Ion	Ratio	Lower	Upper
178	100		
176	16.6	15.4	23.2
179	16.6	12.6	19.0

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#23

Anthracene

Concen: 4.51 ng m

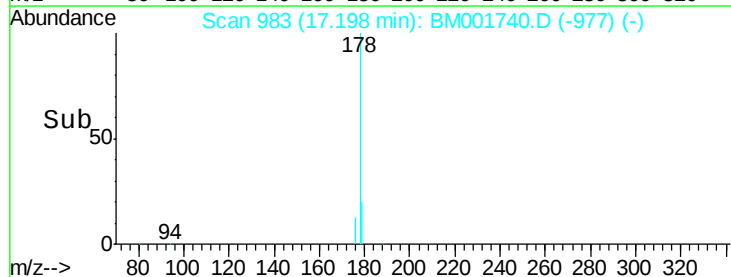
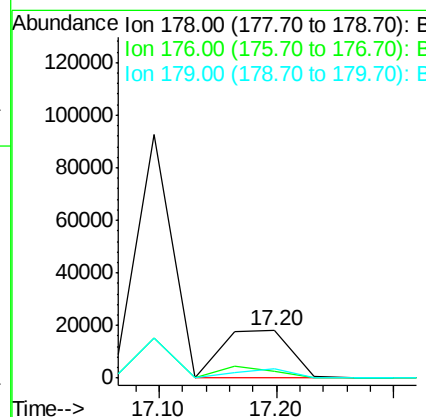
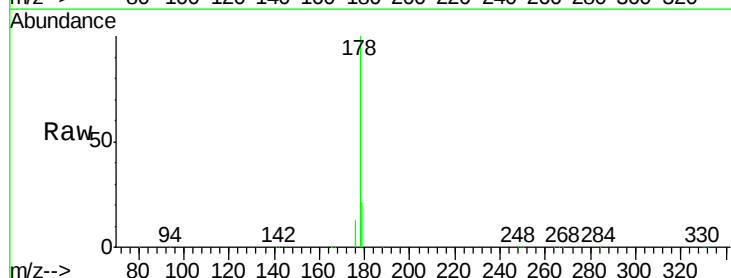
RT: 17.20 min Scan# 983

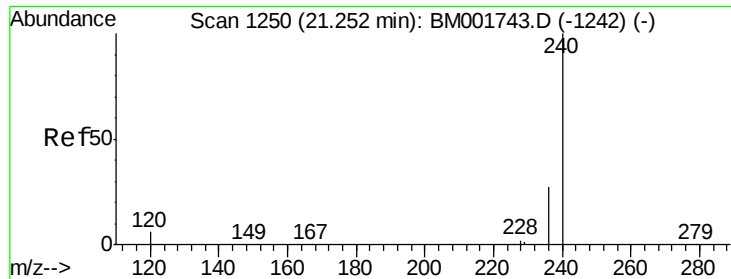
Delta R.T. 0.01 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
178	100		
176	60.7	10.0	15.0#
179	47.2	12.3	18.5#





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.25 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

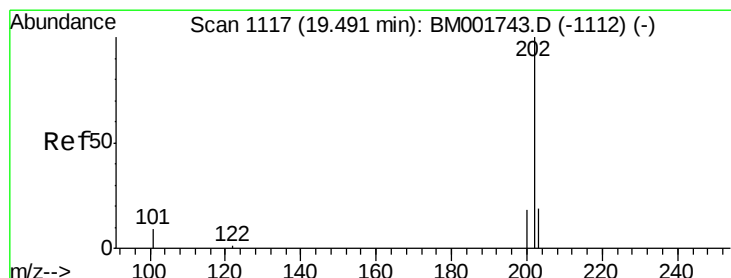
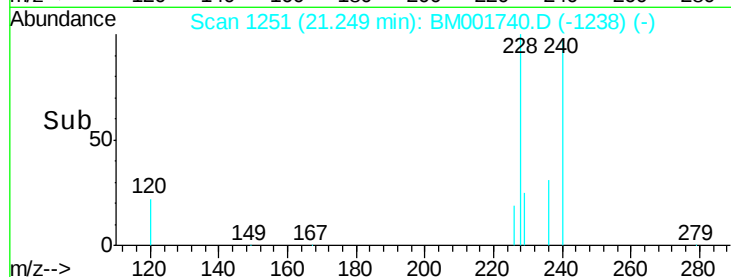
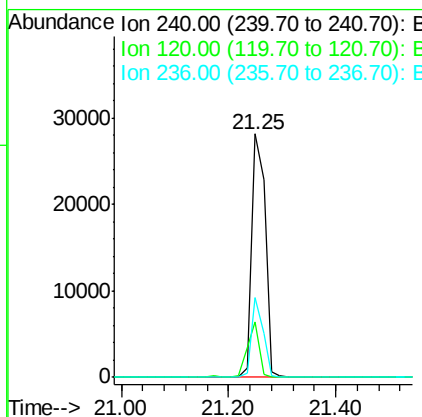
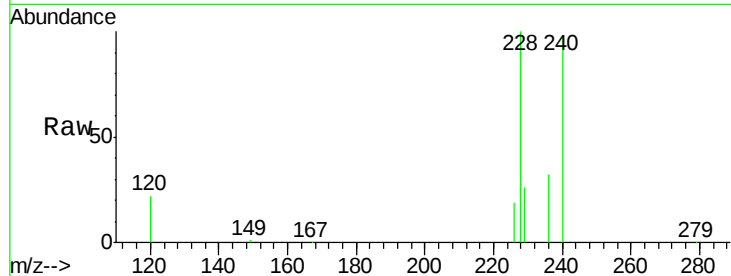
ClientSampleId :

SSTDIC010

Tgt Ion:	240	Resp:	49116
Ion Ratio	Lower	Upper	
240	100		
120	22.9	4.7	7.1#
236	32.7	21.6	32.4#

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#26

Pyrene

Concen: 10.22 ng

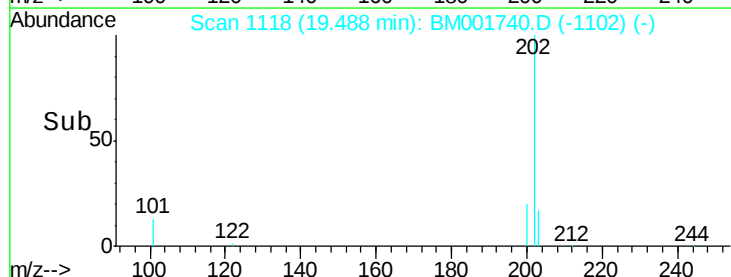
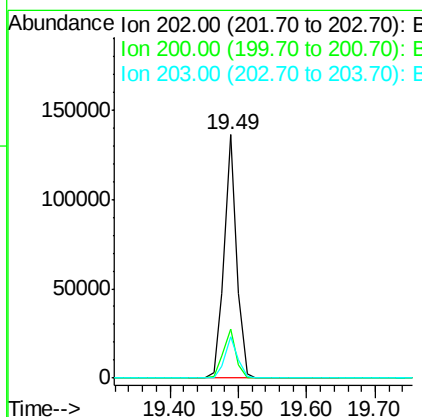
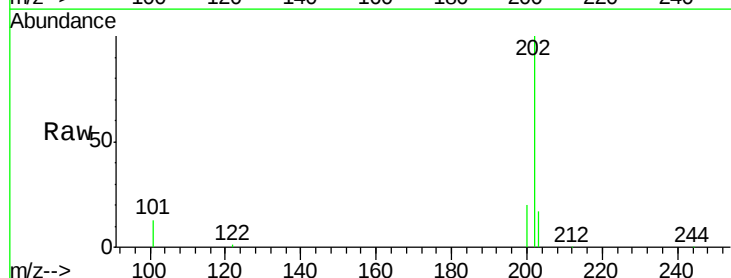
RT: 19.49 min Scan# 1118

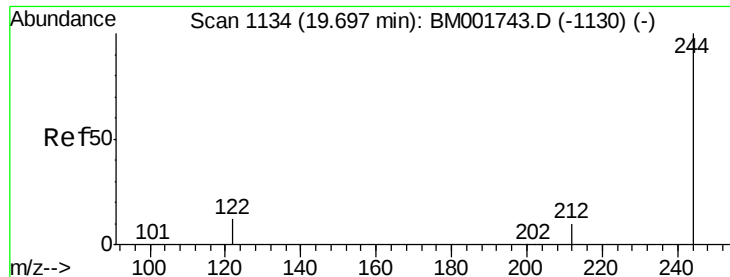
Delta R.T. -0.00 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion:	202	Resp:	172190
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.6	24.8
203	17.3	13.9	20.9





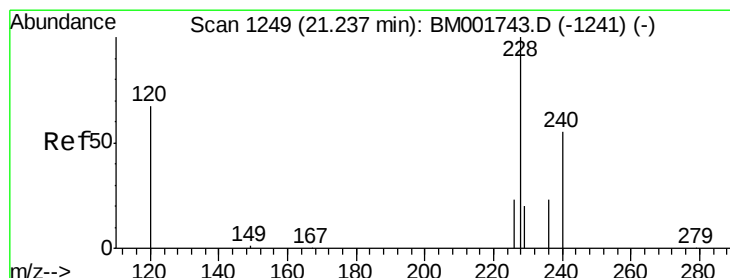
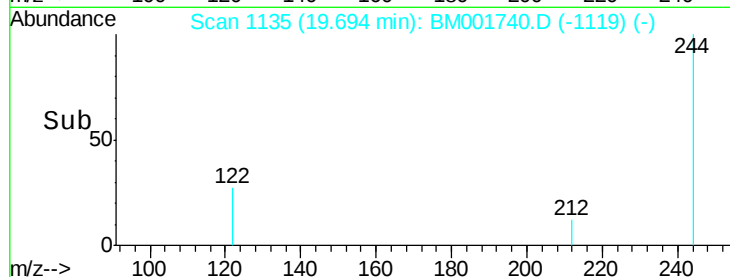
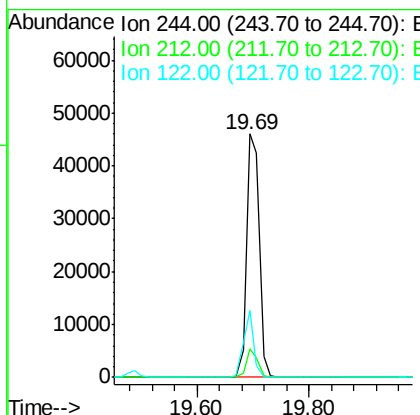
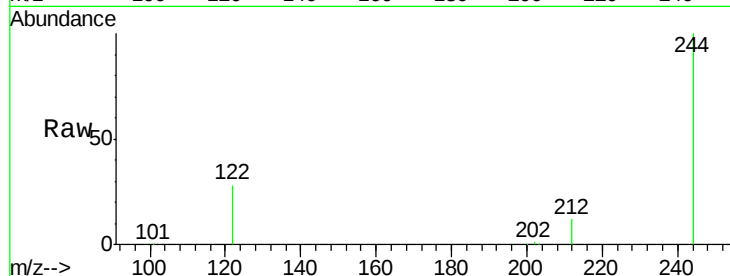
#27
 Terphenyl-d14
 Concen: 9.64 ng
 RT: 19.69 min Scan# 1135
 Delta R.T. -0.00 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC010

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	71091		
212	11.7	8.6	13.0	
122	27.7	10.6	15.8#	

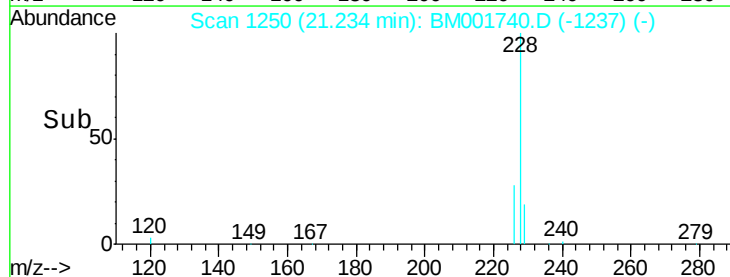
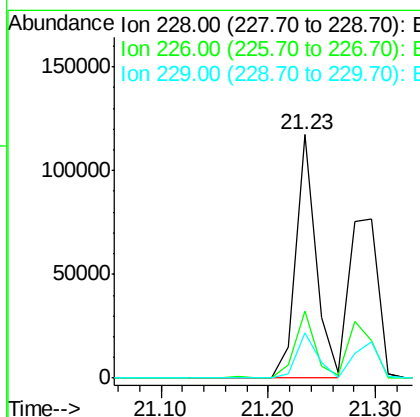
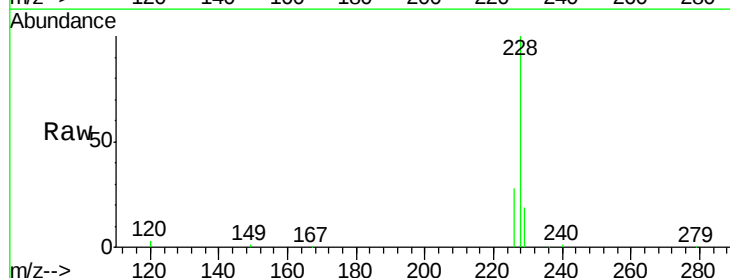
Manual Integrations
 APPROVED

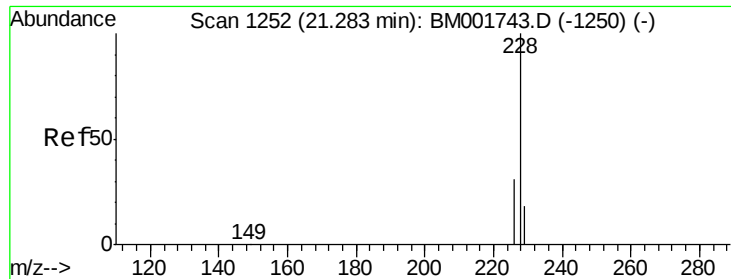
apatel
 6/22/2015 2:45:00 PM



#28
 Benzo(a)anthracene
 Concen: 9.92 ng
 RT: 21.23 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	152583		
226	27.6	18.9	28.3	
229	18.6	16.6	25.0	





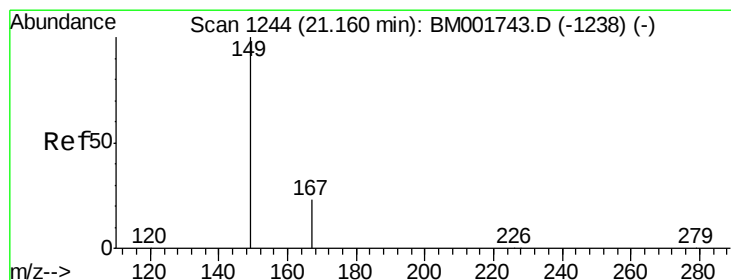
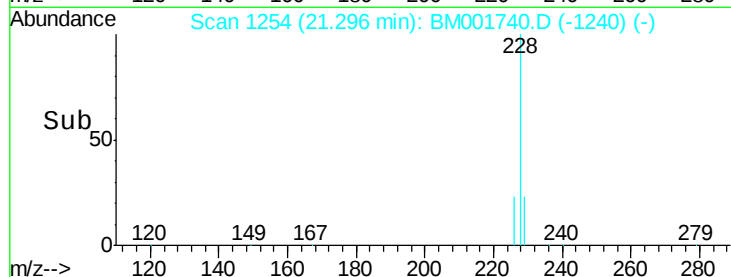
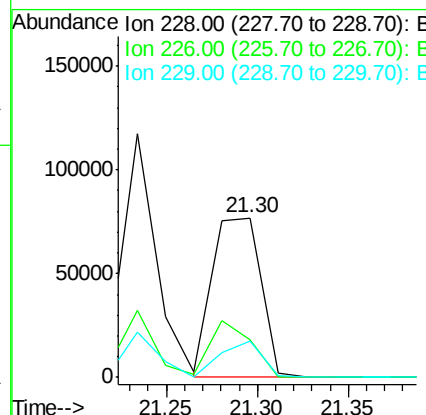
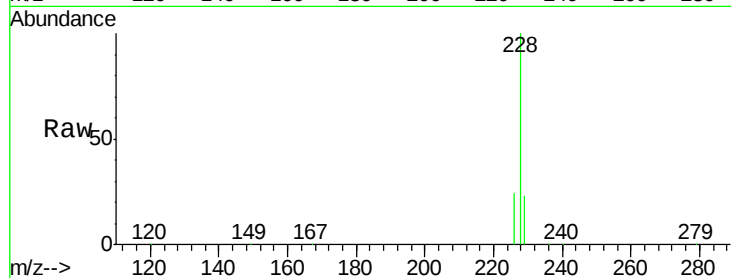
#29
Chrysene
Concen: 9.67 ng m
RT: 21.30 min Scan# 1254
Delta R.T. 0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.5	24.3	36.5#
229	22.8	15.0	22.6#

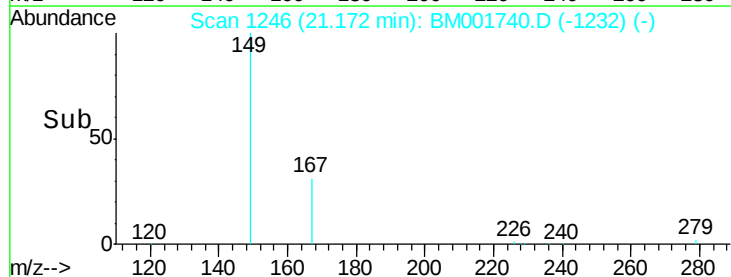
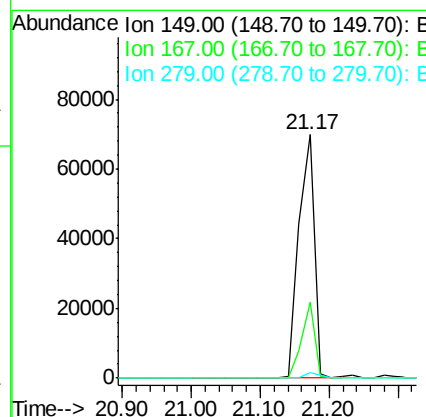
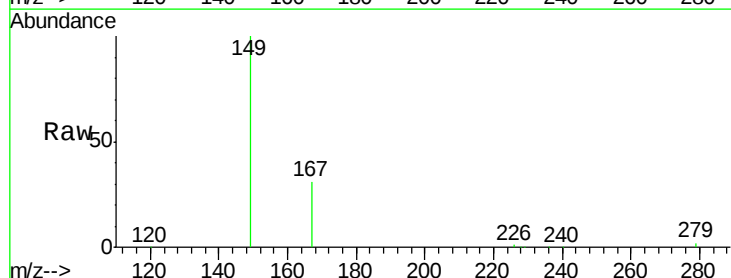
Manual Integrations
APPROVED

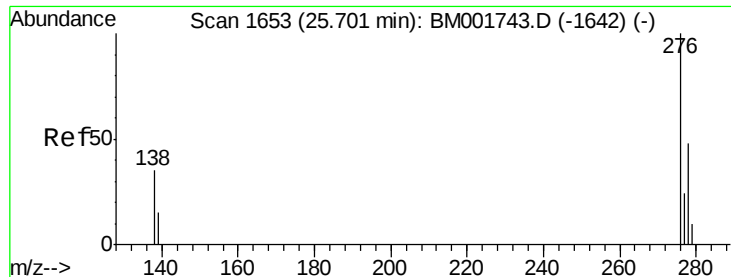
apatel
6/22/2015 2:45:00 PM



#30
Bis(2-ethylhexyl)phthalate
Concen: 11.26 ng
RT: 21.17 min Scan# 1246
Delta R.T. 0.01 min
Lab File: BM001740.D
Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.8	19.7	29.5
279	2.1	1.6	2.4





#31

Indeno(1,2,3-cd)pyrene

Concen: 12.76 ng

RT: 25.71 min Scan# 1655

Delta R.T. 0.01 min

Lab File: BM001740.D

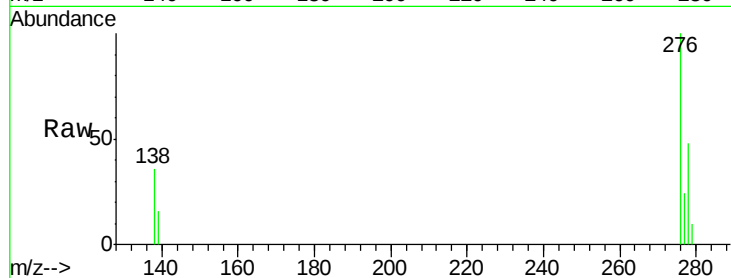
Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleId :

SSTDIC010



Tgt Ion: 276 Resp: 155029

Ion Ratio Lower Upper

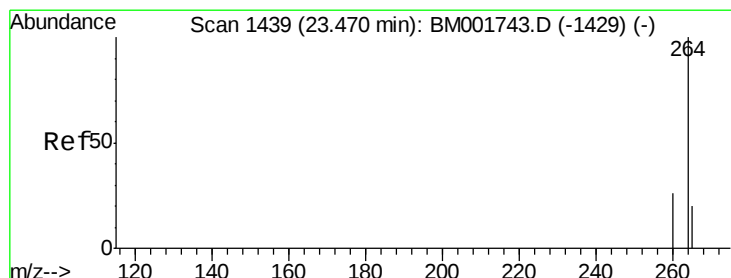
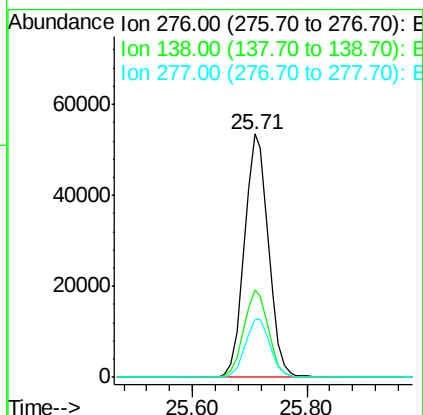
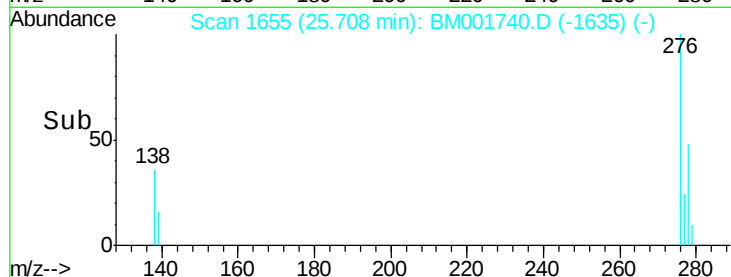
276 100

138 36.6 29.0 43.6

277 24.6 19.7 29.5

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.48 min Scan# 1441

Delta R.T. 0.01 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

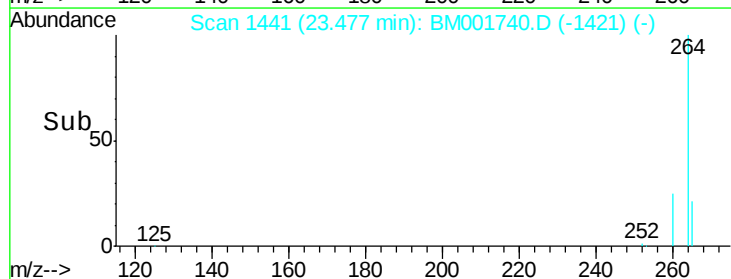
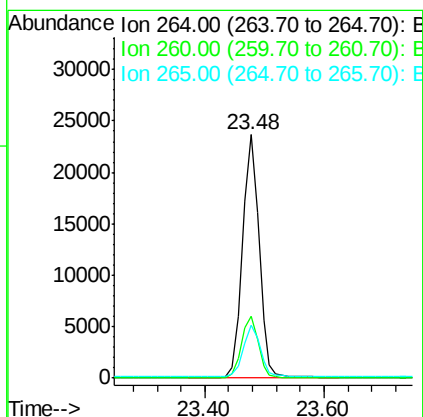
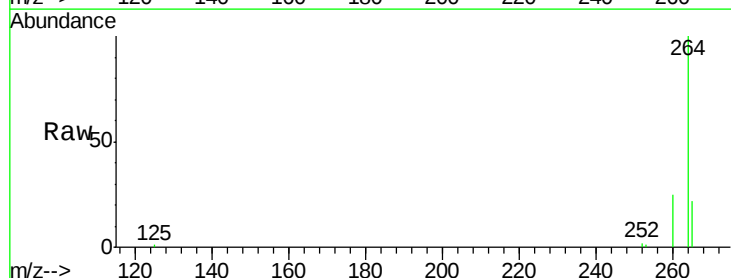
Tgt Ion: 264 Resp: 44918

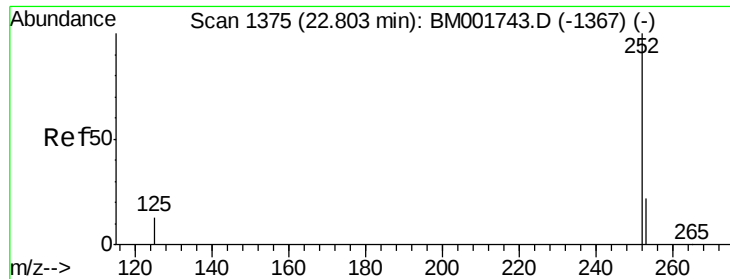
Ion Ratio Lower Upper

264 100

260 25.4 20.8 31.2

265 21.7 16.8 25.2





#33

Benzo(b)fluoranthene

Concen: 10.35 ng

RT: 22.81 min Scan# 1377

Delta R.T. 0.01 min

Lab File: BM001740.D

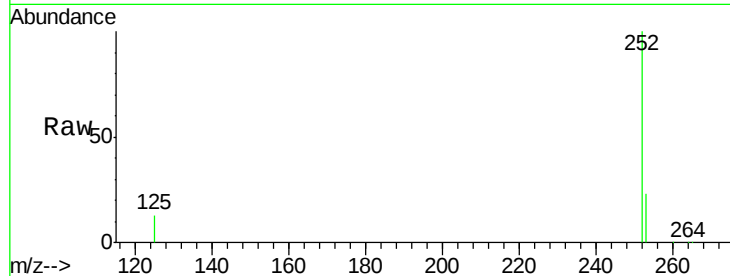
Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleId :

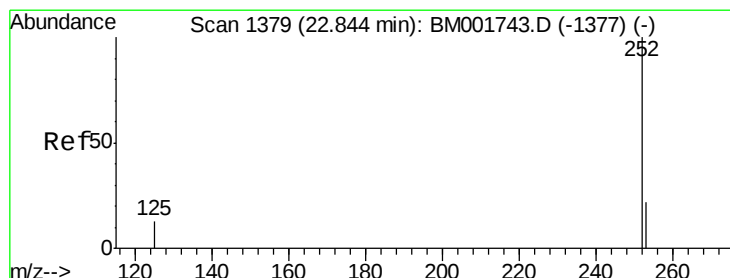
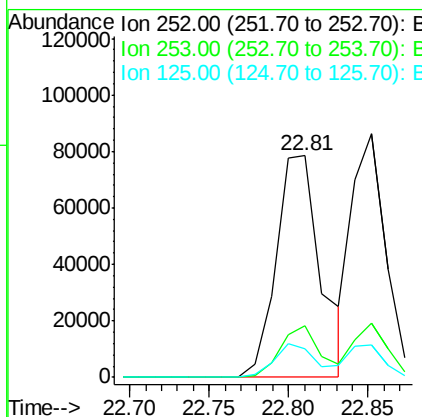
SSTDICC010



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.0	28.4
125	12.8	11.3	16.9

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#34

Benzo(k)fluoranthene

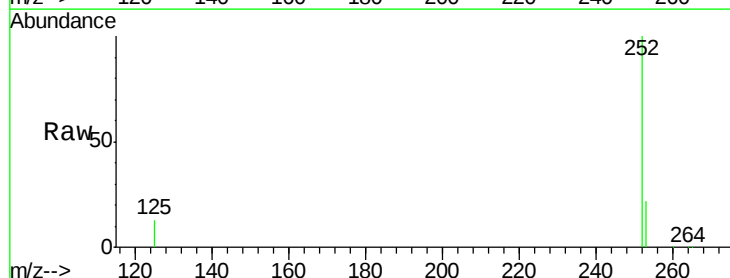
Concen: 9.00 ng

RT: 22.85 min Scan# 1381

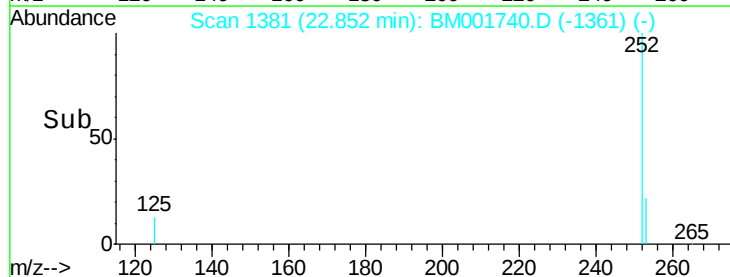
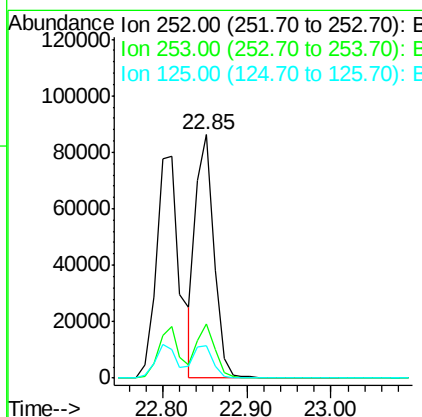
Delta R.T. 0.01 min

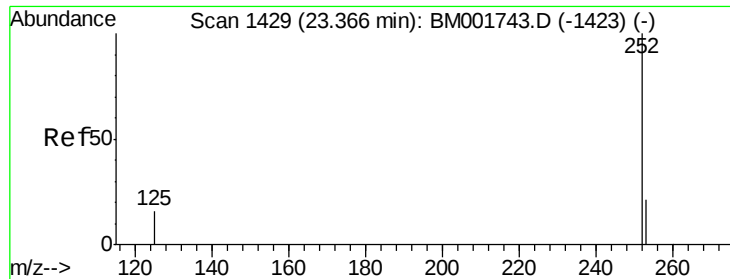
Lab File: BM001740.D

Acq: 18 Jun 2015 17:12



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.4
125	13.2	11.8	17.6





#35

Benzo(a)pyrene

Concen: 10.42 ng

RT: 23.37 min Scan# 1431

Delta R.T. 0.01 min

Lab File: BM001740.D

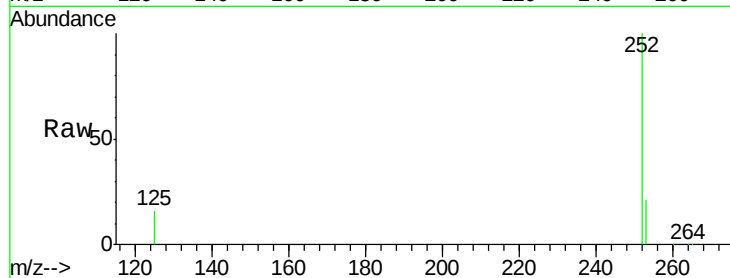
Acq: 18 Jun 2015 17:12

Instrument :

BNA_M

ClientSampleId :

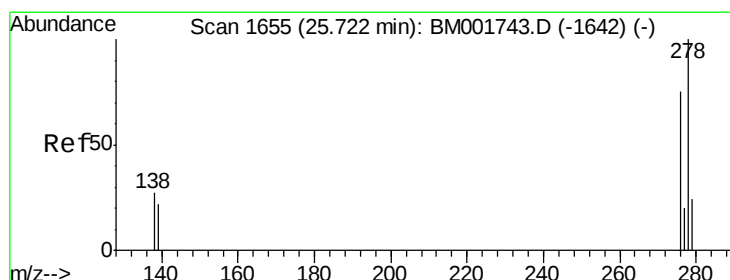
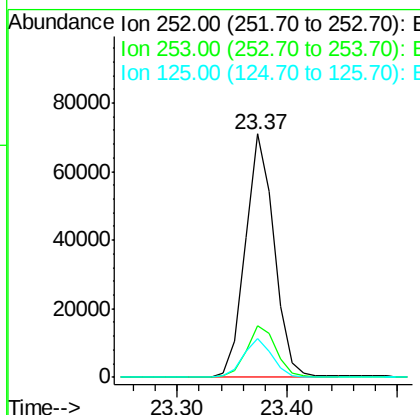
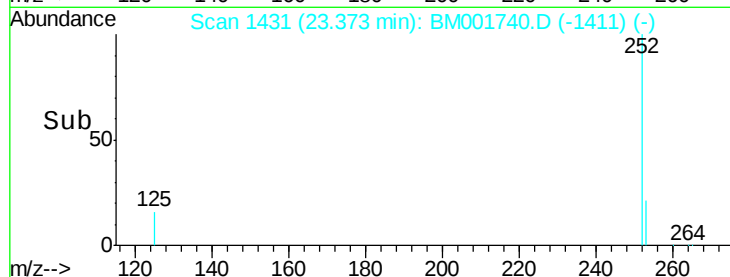
SSTDICC010



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.9	26.9
125	15.9	14.1	21.1

Manual Integrations
APPROVED

apatel
6/22/2015 2:45:00 PM



#36

Dibenzo(a,h)anthracene

Concen: 11.71 ng

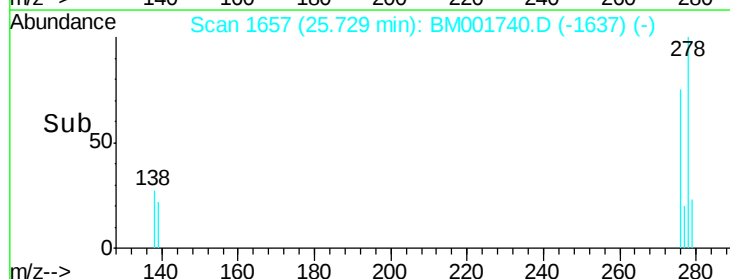
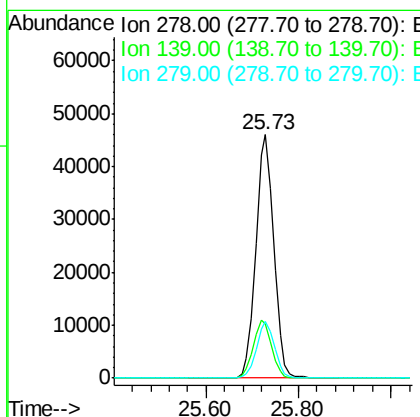
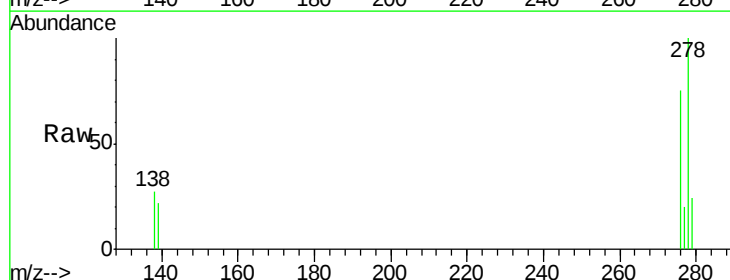
RT: 25.73 min Scan# 1657

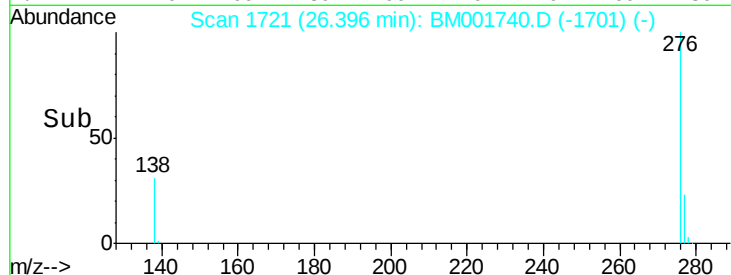
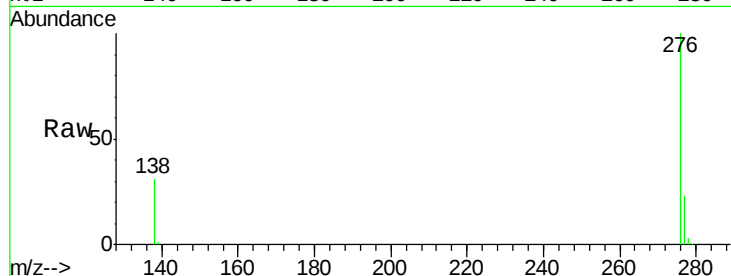
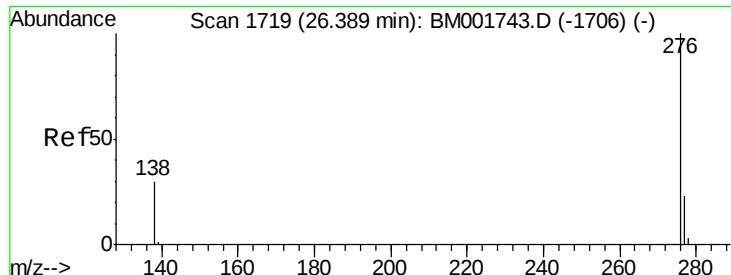
Delta R.T. 0.01 min

Lab File: BM001740.D

Acq: 18 Jun 2015 17:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.3	18.4	27.6
279	23.6	19.8	29.8





#37
 Benzo(g,h,i)perylene
 Concen: 11.07 ng
 RT: 26.40 min Scan# 1721
 Delta R.T. 0.01 min
 Lab File: BM001740.D
 Acq: 18 Jun 2015 17:12

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC010

Tgt Ion:	276	Resp:	126445
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.3	28.9
138	31.1	24.7	37.1

Manual Integrations
 APPROVED

apatel
 6/22/2015 2:45:00 PM

