

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011616\
 Data File : BM004043.D
 Acq On : 15 Jan 2016 12:22
 Operator : SJ/UM
 Sample : H1100-01 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BC982

Manual Integrations
 APPROVED

Sohil
 1/16/2016 5:00:56 AM

Quant Time: Jan 16 00:57:04 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Jan 16 00:22:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	36373	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	176064	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.32	164	103291	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.07	188	228085	20.00	ng/ul	0.00
78) Chrysene-d12	21.28	240	193821	20.00	ng/ul	0.00
86) Perylene-d12	23.51	264	171017	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.85	99	4832	1.60	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	2799	1.64	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	4168	1.68	ng/ul	0.00
13) 4-Methylphenol-d8	8.38	113	3487	1.42	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	1652	1.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	1598	1.10	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.09	165	3755	1.45	ng/ul	0.01
29) 4-Chloroaniline-d4	0.00	131	0d	0.00	ng/ul	
44) Dimethylphthalate-d6	13.73	166	14724	1.82	ng/ul	0.00
47) Acenaphthylene-d8	14.01	160	18705	1.89	ng/ul	0.00
52) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
58) Fluorene-d10	15.32	176	14669	2.13	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.17	188	22510	2.13	ng/ul	0.00
79) Pyrene-d10	19.47	212	24662	2.46	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.37	264	18819	2.20	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.50	128	17851	1.95	ng/ul	99
34) 2-Methylnaphthalene	12.13	142	7043	1.09	ng/ul	93
48) Acenaphthylene	14.04	152	34557	3.19	ng/ul	99
50) Acenaphthene	14.39	153	7877	1.10	ng/ul	97
59) Fluorene	15.37	166	15367	1.93	ng/ul	100
70) Phenanthrene	17.12	178	293558	22.89	ng/ul	100
72) Anthracene	17.20	178	69532	5.29	ng/ul	99
75) Carbazole	17.48	167	17806	1.54	ng/ul	96
77) Fluoranthene	19.14	202	452949	33.98	ng/ul	98
80) Pyrene	19.50	202	559459	42.52	ng/ul	98
83) Benzo(a)anthracene	21.26	228	210116	18.20	ng/ul	96
85) Chrysene	21.31	228	250414	22.83	ng/ul	97
88) Benzo(b)fluoranthene	22.85	252	232545	22.37	ng/ul	98
89) Benzo(k)fluoranthene	22.89	252	77623m	7.85	ng/ul	
91) Benzo(a)pyrene	23.42	252	186671	18.93	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.77	276	106969	9.81	ng/ul	97
93) Dibenzo(a,h)anthracene	25.77	278	32842	3.58	ng/ul#	79
94) Benzo(g,h,i)perylene	26.46	276	100767	11.00	ng/ul	98

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

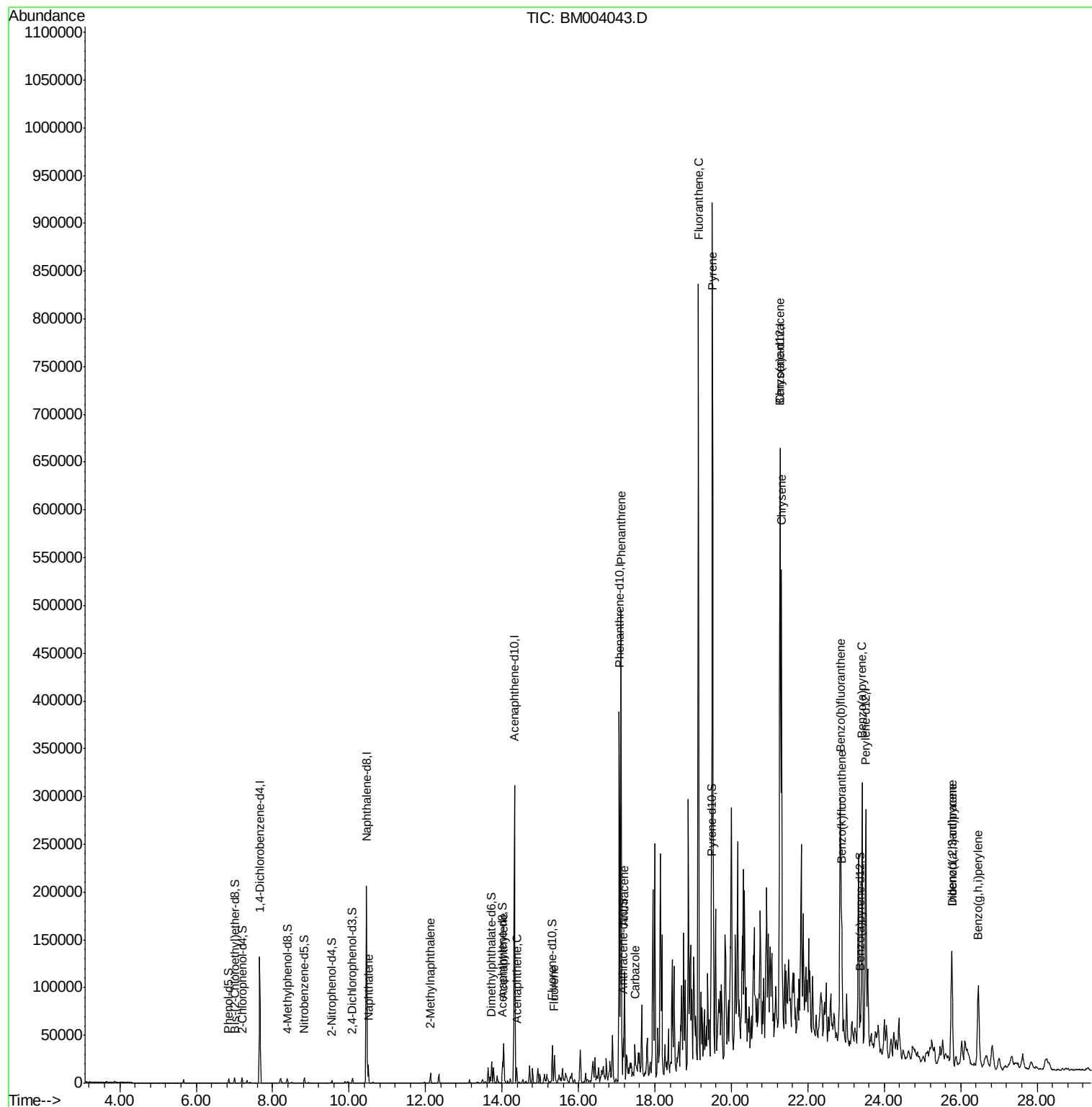
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011616\
Data File : BM004043.D
Acq On : 15 Jan 2016 12:22
Operator : SJ/UM
Sample : H1100-01 10X
Misc :
ALS Vial : 4 Sample Multiplier: 1

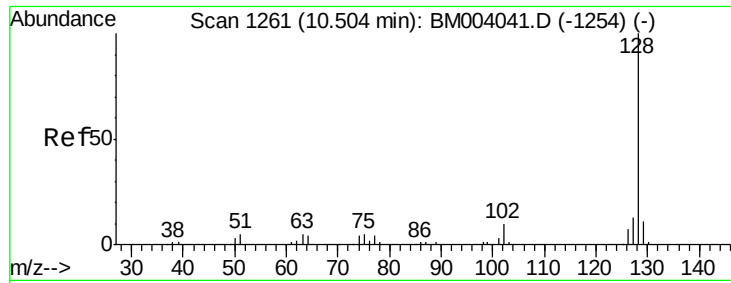
Instrument :
BNA_M
ClientSampleId :
BC982

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM

Quant Time: Jan 16 00:57:04 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Jan 16 00:22:06 2016
Response via : Initial Calibration





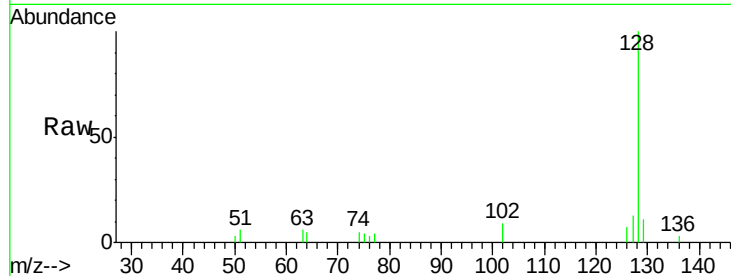
#28
Naphthalene
Concen: 1.95 ng/ul
RT: 10.50 min Scan# 1261
Delta R.T. -0.00 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Instrument :
BNA_M
ClientSampled :
BC982

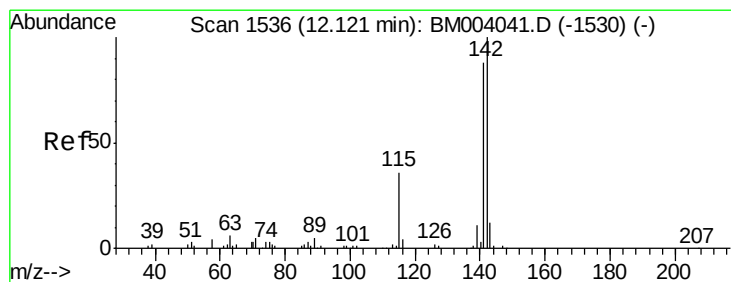
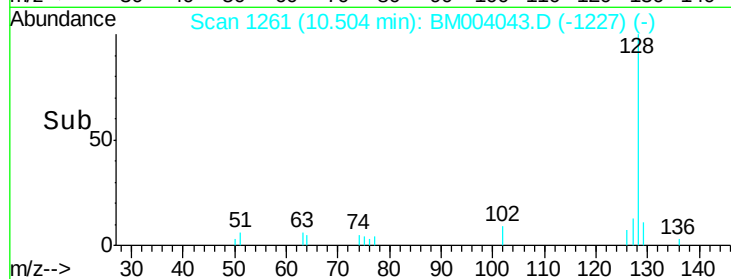
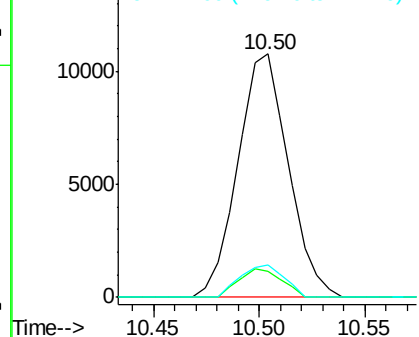
Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.5	8.8	13.2
127	13.3	10.5	15.7

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM

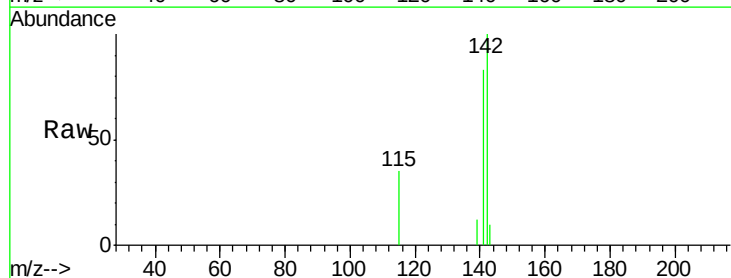


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

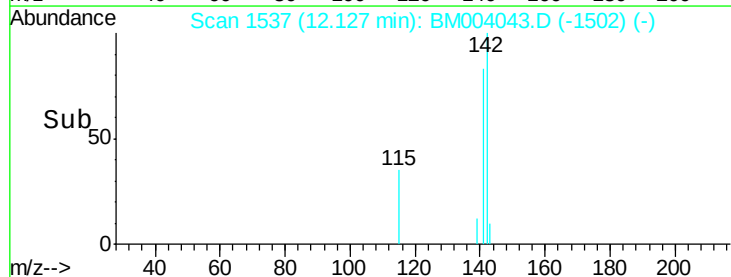
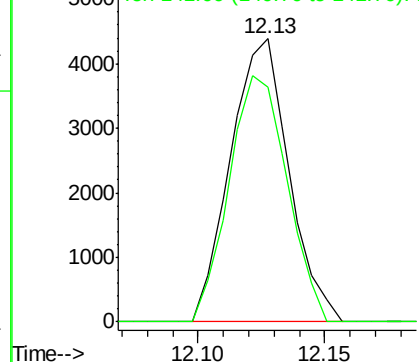


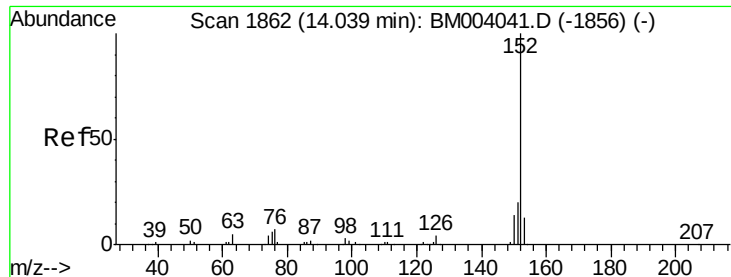
#34
2-Methylnaphthalene
Concen: 1.09 ng/ul
RT: 12.13 min Scan# 1537
Delta R.T. 0.01 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	83.1	71.6	107.4



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E





#48

Acenaphthylene

Concen: 3.19 ng/ul

RT: 14.04 min Scan# 1862

Delta R.T. -0.00 min

Lab File: BM004043.D

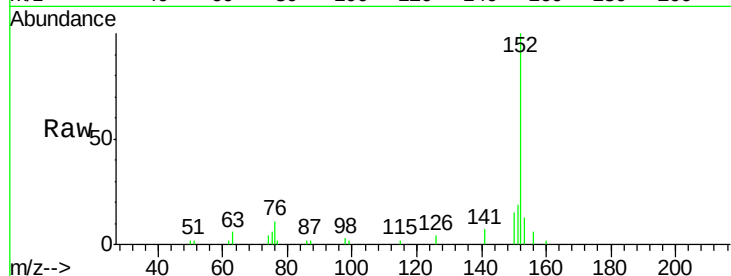
Acq: 15 Jan 2016 12:22

Instrument :

BNA_M

ClientSampled :

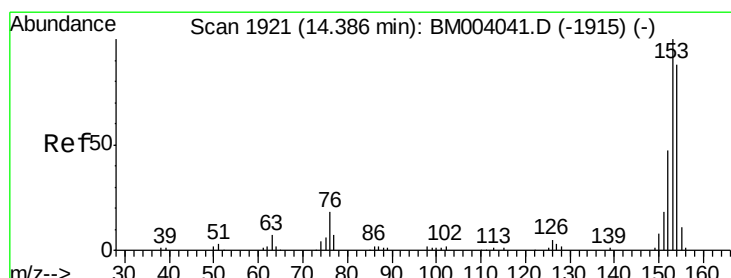
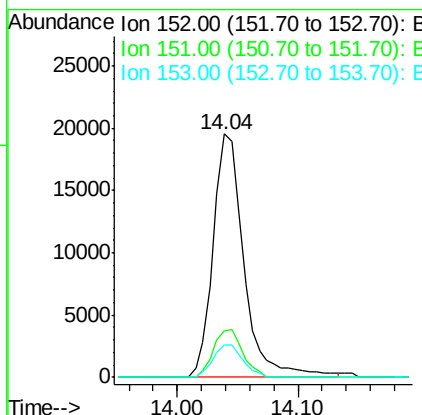
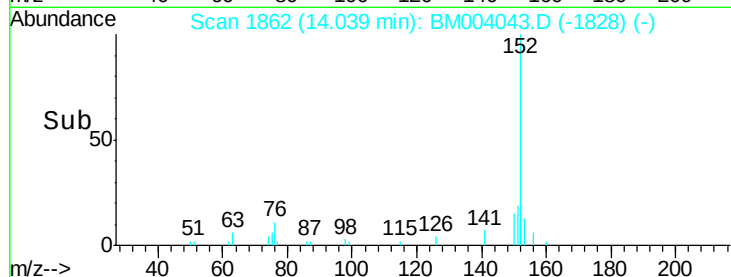
BC982



Tgt Ion:	152	Resp:	34557
Ion Ratio	Lower	Upper	
152	100		
151	19.0	15.7	23.5
153	13.3	10.5	15.7

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM



#50

Acenaphthene

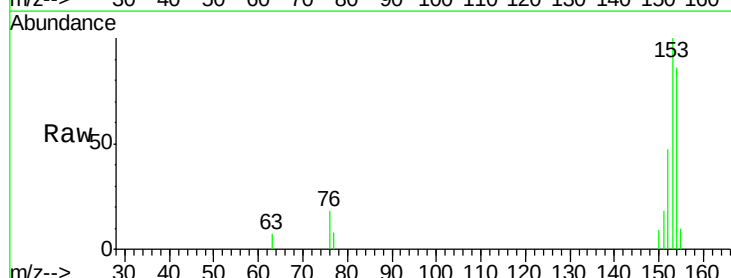
Concen: 1.10 ng/ul

RT: 14.39 min Scan# 1921

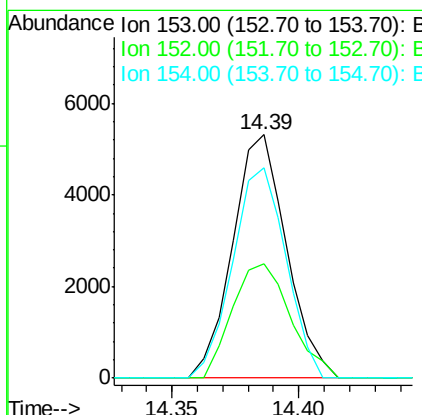
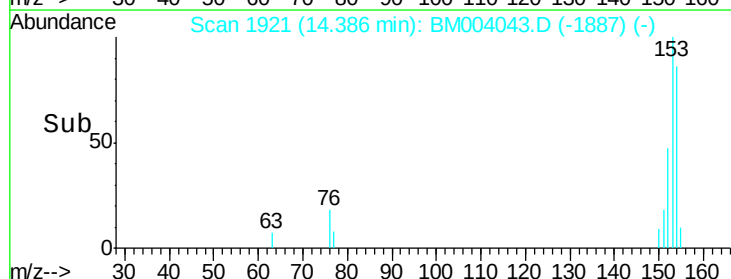
Delta R.T. -0.00 min

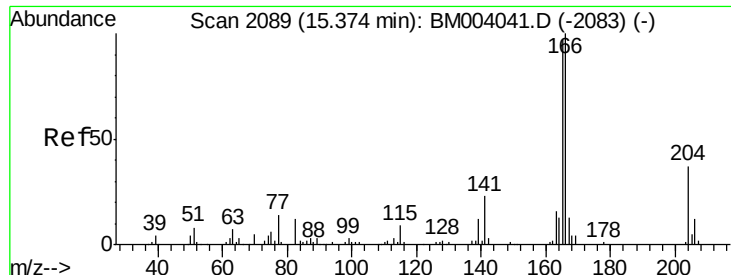
Lab File: BM004043.D

Acq: 15 Jan 2016 12:22



Tgt Ion:	153	Resp:	7877
Ion Ratio	Lower	Upper	
153	100		
152	47.1	38.3	57.5
154	86.4	71.8	107.8





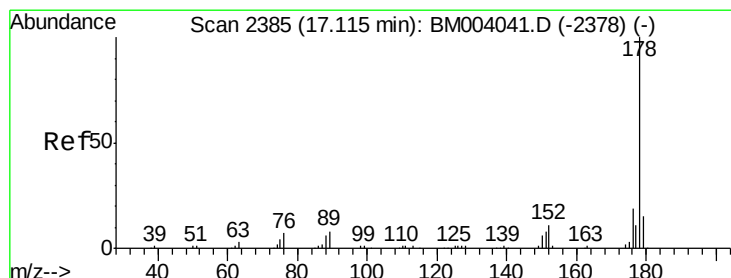
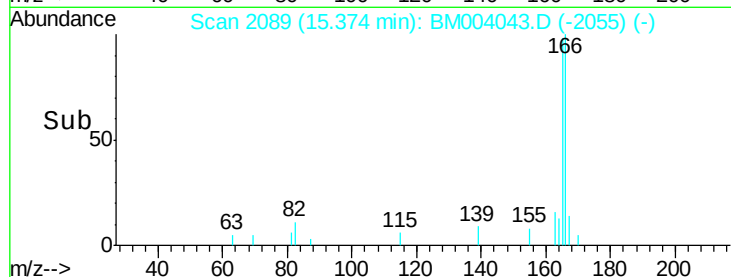
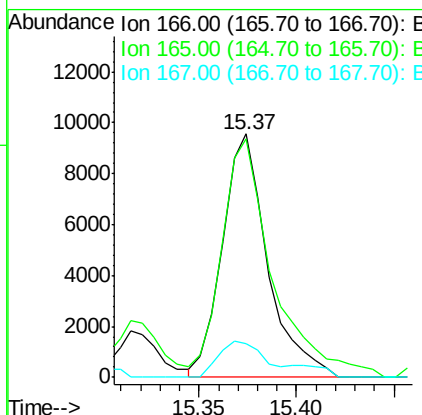
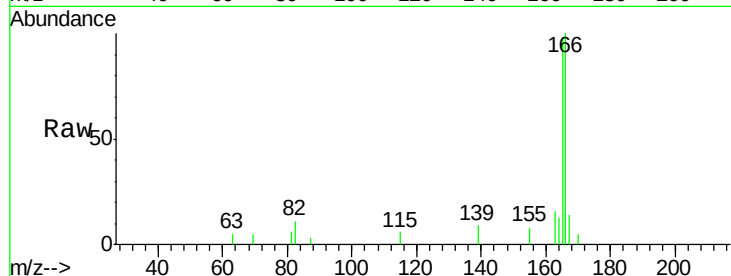
#59
 Fluorene
 Concen: 1.93 ng/ul
 RT: 15.37 min Scan# 2089
 Delta R.T. -0.00 min
 Lab File: BM004043.D
 Acq: 15 Jan 2016 12:22

Instrument :
 BNA_M
 ClientSampleId :
 BC982

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	15367		
165	98.2	78.5	117.7	
167	13.9	10.7	16.1	

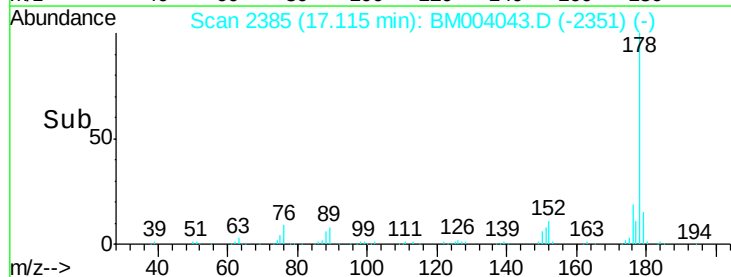
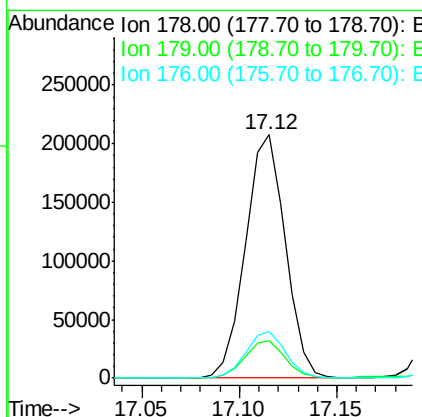
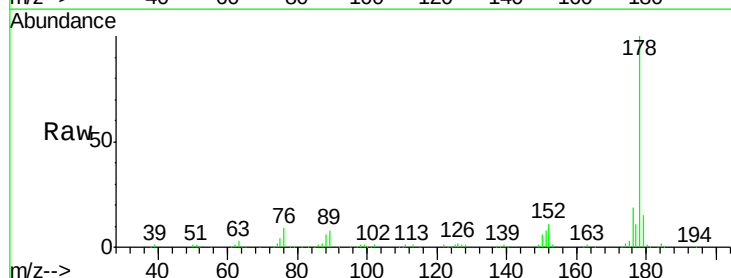
Manual Integrations
 APPROVED

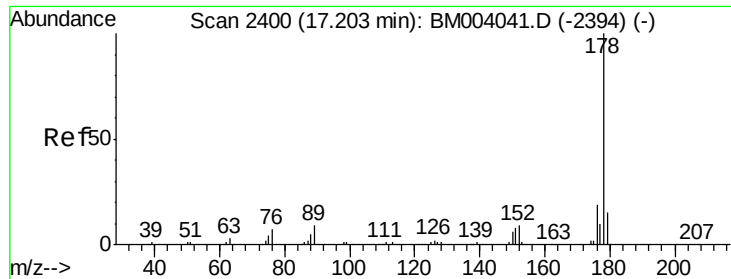
Sohil
 1/16/2016 5:00:56 AM



#70
 Phenanthrene
 Concen: 22.89 ng/ul
 RT: 17.12 min Scan# 2385
 Delta R.T. -0.00 min
 Lab File: BM004043.D
 Acq: 15 Jan 2016 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	293558		
179	15.3	12.2	18.4	
176	19.3	15.6	23.4	





#72

Anthracene

Concen: 5.29 ng/ul

RT: 17.20 min Scan# 2400

Delta R.T. -0.00 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Instrument :

BNA_M

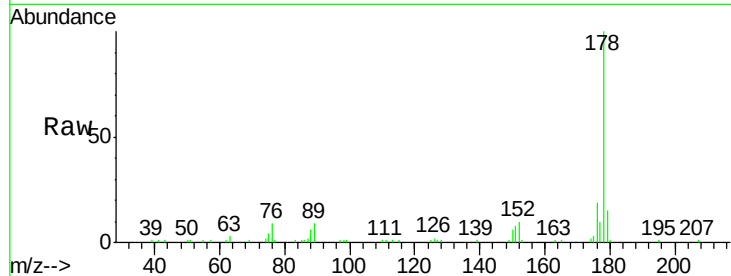
ClientSampleId :

BC982

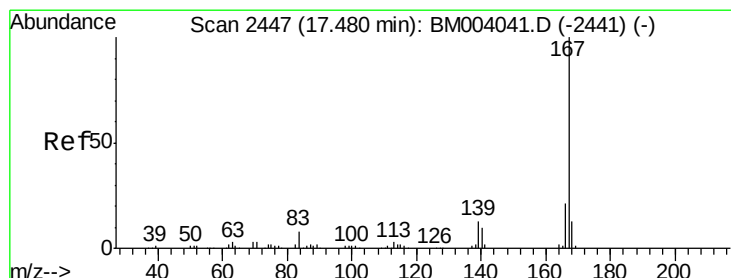
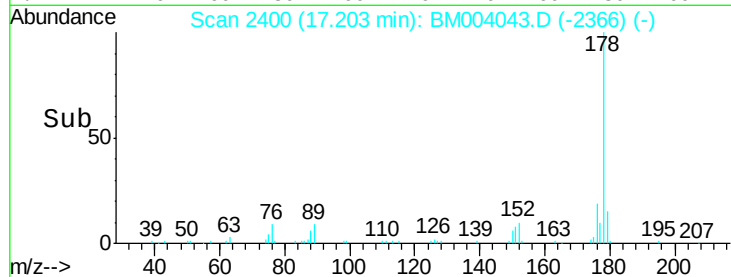
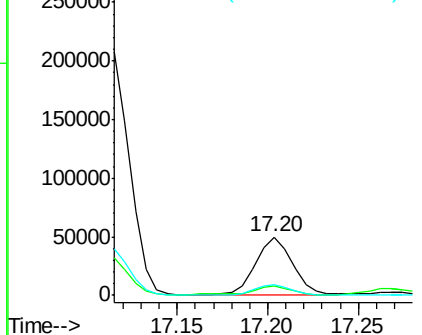
Tgt Ion:	178	Resp:	69532
Ion Ratio	Lower	Upper	
178	100		
179	15.4	12.1	18.1
176	18.9	14.8	22.2

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#75

Carbazole

Concen: 1.54 ng/ul

RT: 17.48 min Scan# 2447

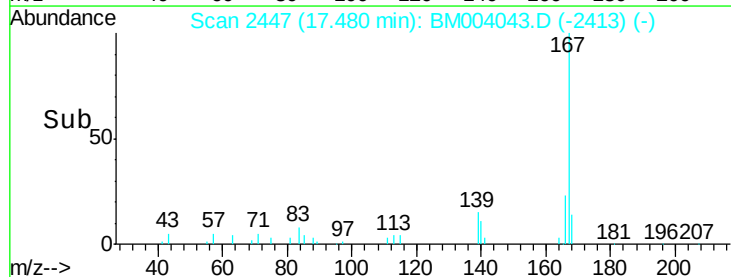
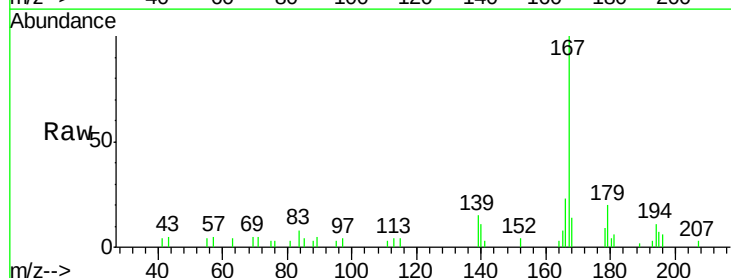
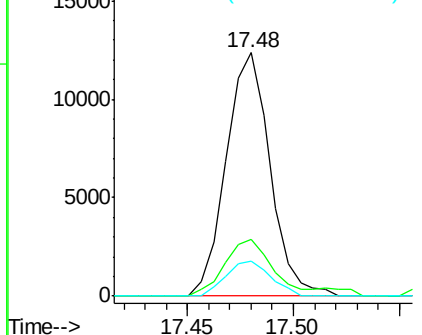
Delta R.T. -0.00 min

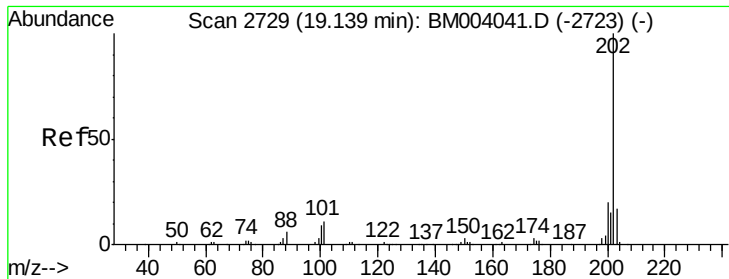
Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Tgt Ion:	167	Resp:	17806
Ion Ratio	Lower	Upper	
167	100		
166	23.5	17.0	25.6
139	14.6	11.0	16.4

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 33.98 ng/ul

RT: 19.14 min Scan# 2729

Delta R.T. -0.00 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Instrument :

BNA_M

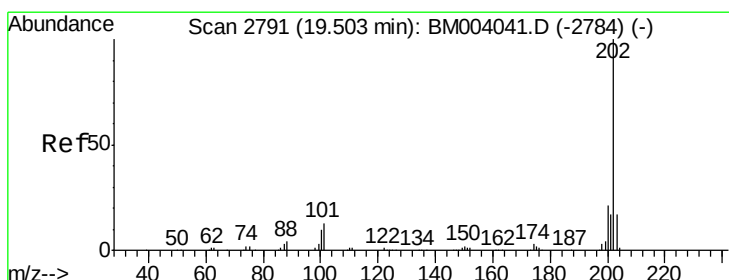
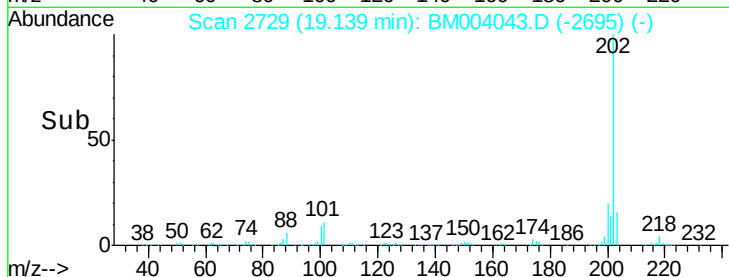
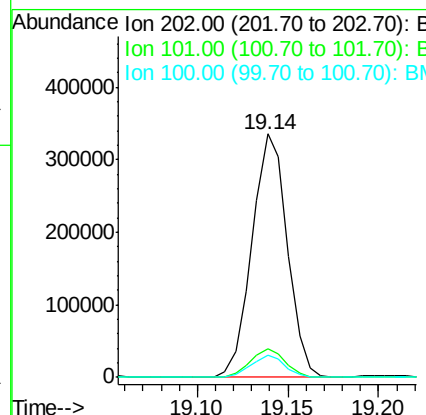
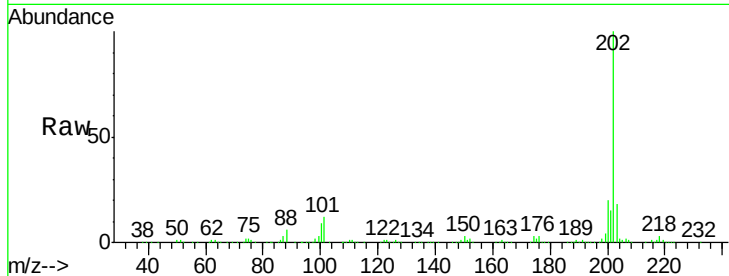
ClientSampleId :

BC982

Tgt	Ion	202	Resp	452949
Ion	Ratio	Lower	Upper	
202	100			
101	11.8	8.8	13.2	
100	9.0	6.6	9.8	

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM



#80

Pyrene

Concen: 42.52 ng/ul

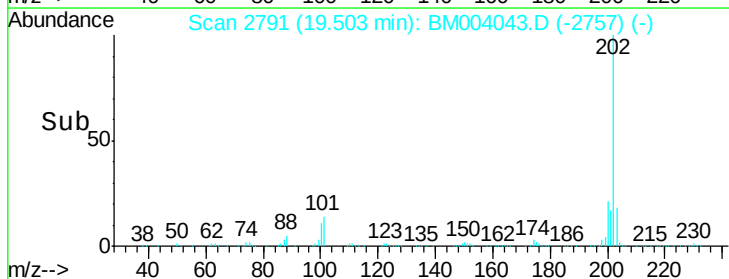
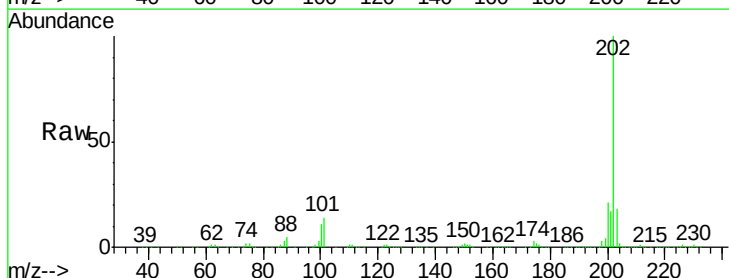
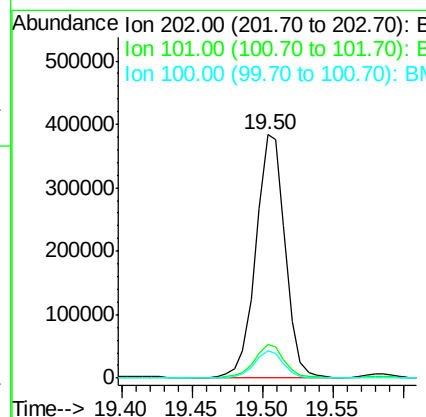
RT: 19.50 min Scan# 2791

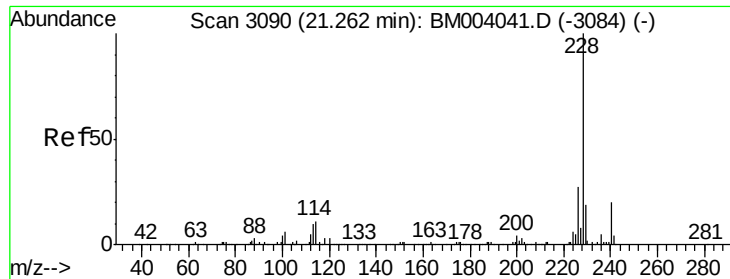
Delta R.T. -0.00 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Tgt	Ion	202	Resp	559459
Ion	Ratio	Lower	Upper	
202	100			
101	13.8	10.2	15.2	
100	11.3	8.5	12.7	





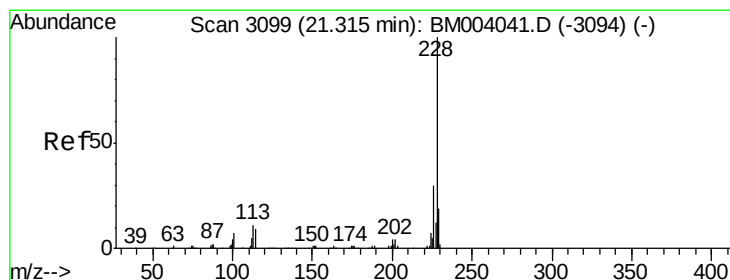
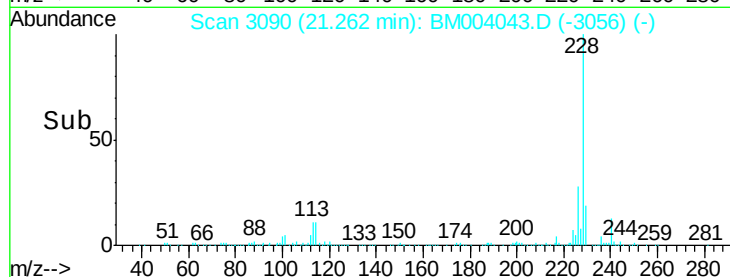
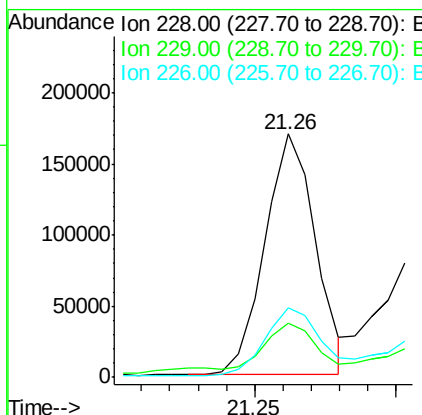
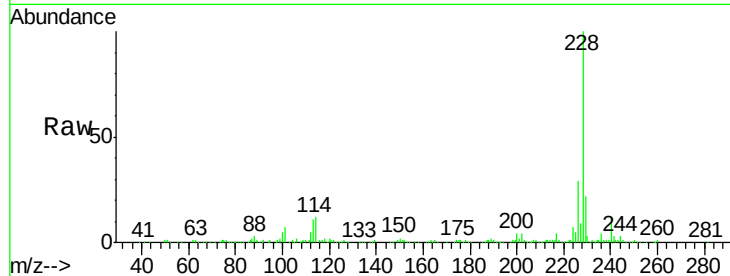
#83
Benzo(a)anthracene
Concen: 18.20 ng/ul
RT: 21.26 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Instrument :
BNA_M
ClientSampleId :
BC982

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
229	22.1	15.7	23.5
226	28.6	21.8	32.6

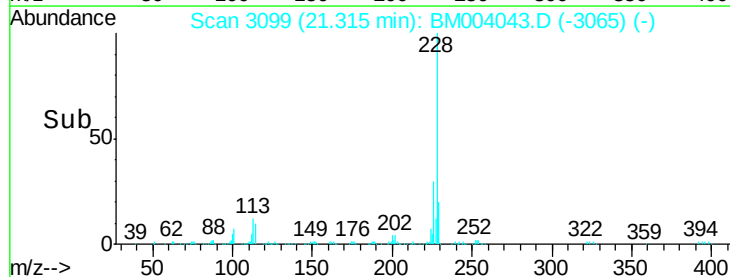
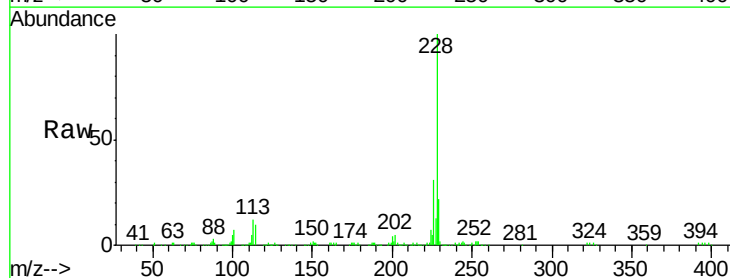
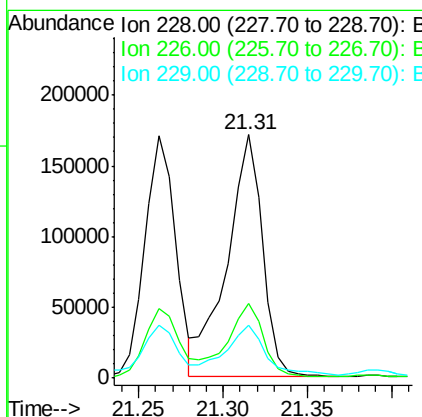
Manual Integrations
APPROVED

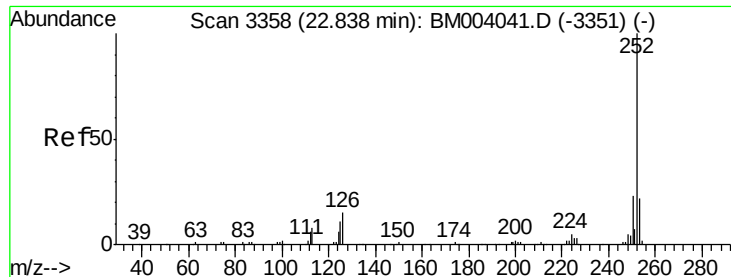
Sohil
1/16/2016 5:00:56 AM



#85
Chrysene
Concen: 22.83 ng/ul
RT: 21.31 min Scan# 3099
Delta R.T. -0.00 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.6	24.0	36.0
229	21.7	15.6	23.4





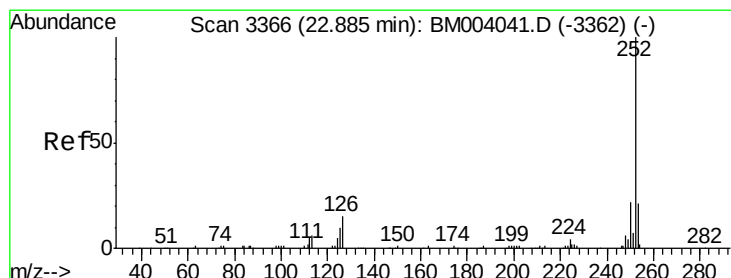
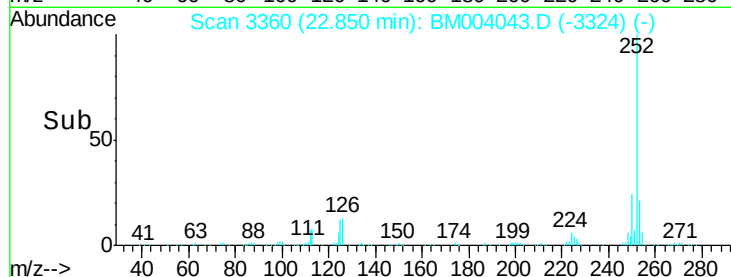
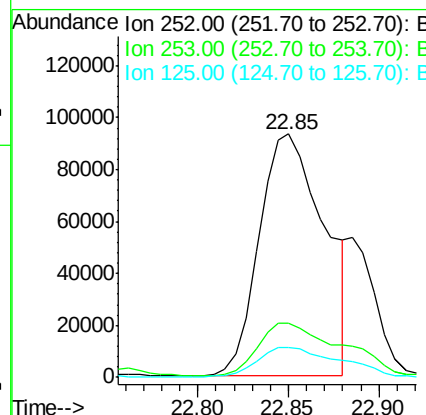
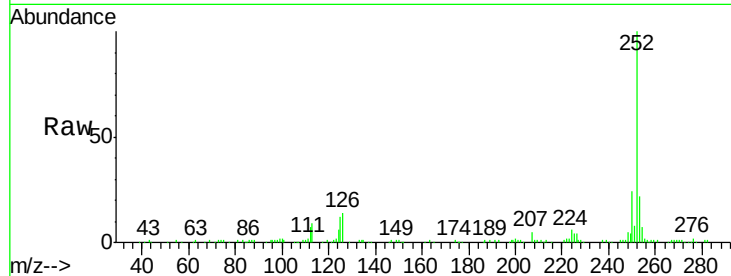
#88
Benzo(b)fluoranthene
Concen: 22.37 ng/ul
RT: 22.85 min Scan# 3360
Delta R.T. 0.01 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Instrument :
BNA_M
ClientSampleId :
BC982

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.3	17.5	26.3
125	12.0	8.5	12.7

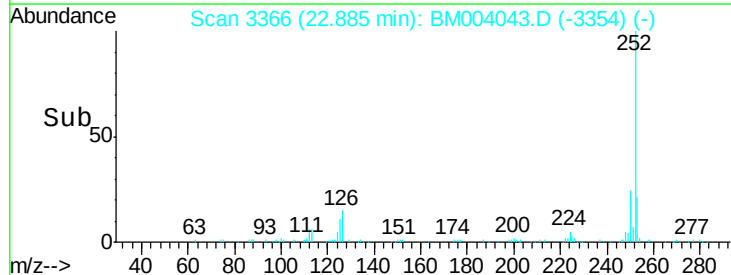
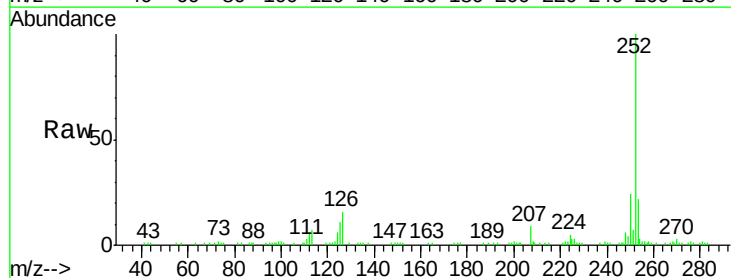
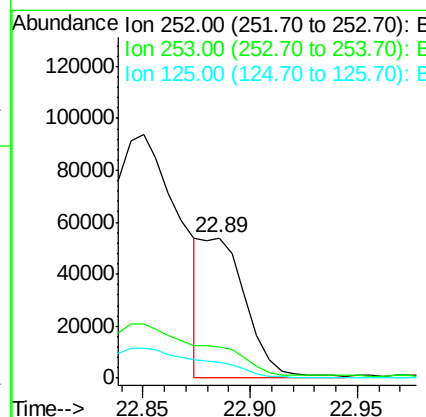
Manual Integrations
APPROVED

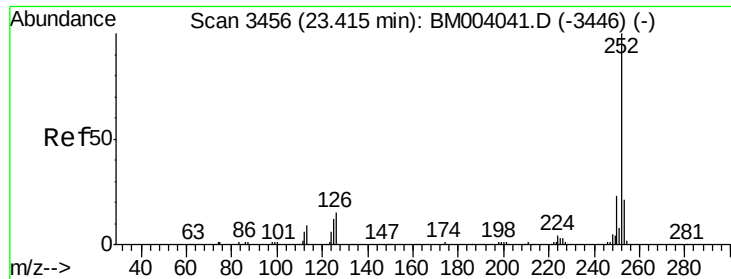
Sohil
1/16/2016 5:00:56 AM



#89
Benzo(k)fluoranthene
Concen: 7.85 ng/ul m
RT: 22.89 min Scan# 3366
Delta R.T. -0.00 min
Lab File: BM004043.D
Acq: 15 Jan 2016 12:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.1	17.3	25.9
125	11.2	8.2	12.2





#91

Benzo(a)pyrene

Concen: 18.93 ng/ul

RT: 23.42 min Scan# 3457

Delta R.T. 0.01 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Instrument :

BNA_M

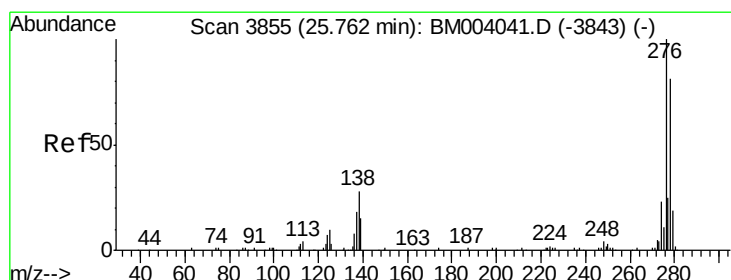
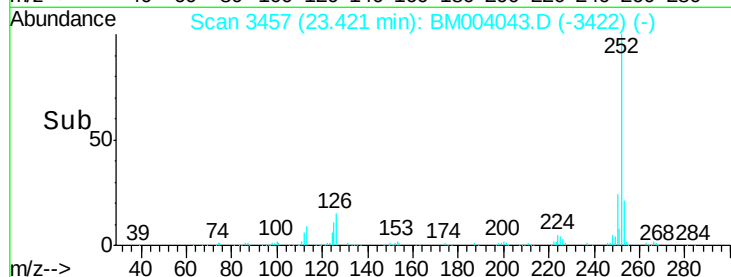
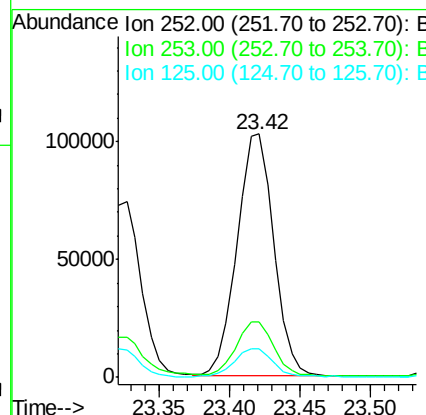
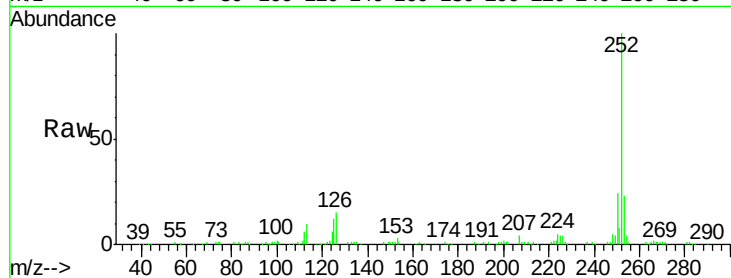
ClientSampled :

BC982

Tgt Ion:	252	Resp:	186671
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.2	25.8
125	11.8	9.0	13.6

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM



#92

Indeno(1,2,3-cd)pyrene

Concen: 9.81 ng/ul

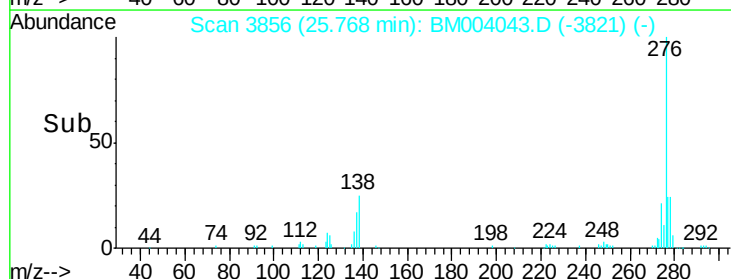
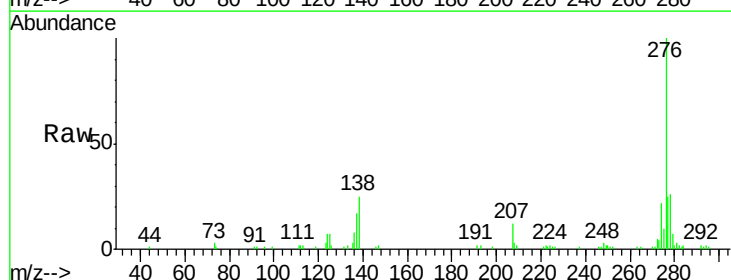
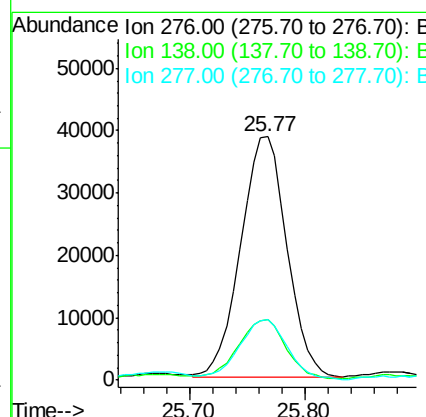
RT: 25.77 min Scan# 3856

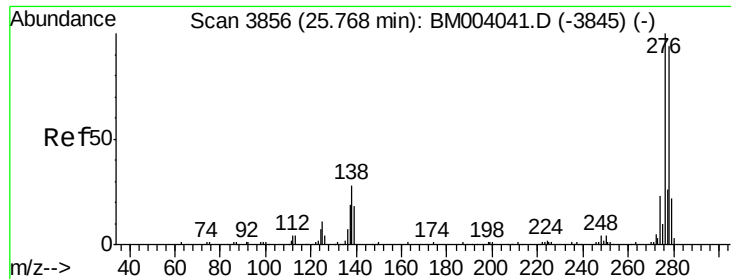
Delta R.T. 0.01 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Tgt Ion:	276	Resp:	106969
Ion Ratio	Lower	Upper	
276	100		
138	25.0	22.3	33.5
277	24.9	20.2	30.2





#93

Dibenzo(a,h)anthracene

Concen: 3.58 ng/ul

RT: 25.77 min Scan# 3856

Delta R.T. -0.00 min

Lab File: BM004043.D

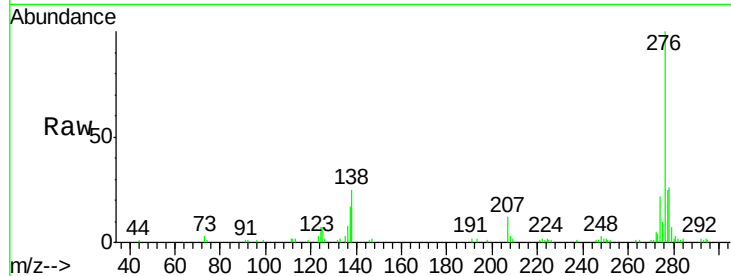
Acq: 15 Jan 2016 12:22

Instrument :

BNA_M

ClientSampled :

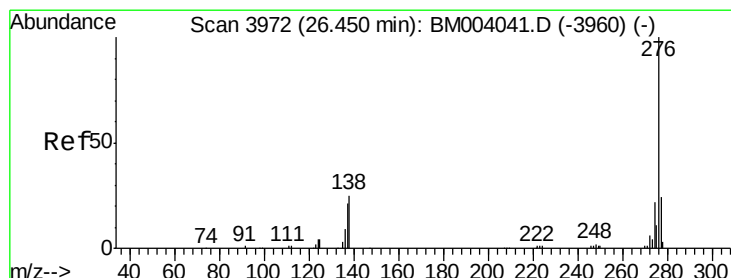
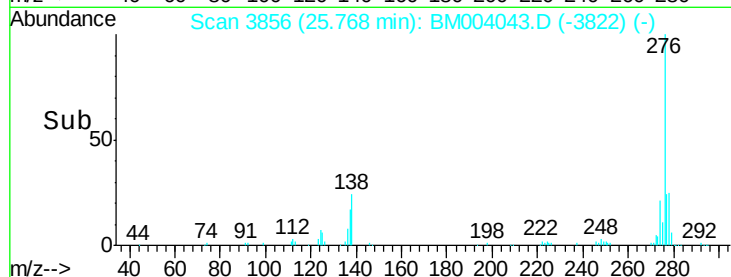
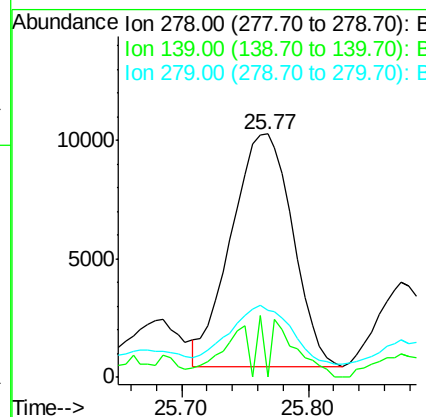
BC982



Tgt Ion:	278	Resp:	32842
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.9	20.9#
279	27.5	19.0	28.4

Manual Integrations
APPROVED

Sohil
1/16/2016 5:00:56 AM



#94

Benzo(g,h,i)perylene

Concen: 11.00 ng/ul

RT: 26.46 min Scan# 3973

Delta R.T. 0.01 min

Lab File: BM004043.D

Acq: 15 Jan 2016 12:22

Tgt Ion:	276	Resp:	100767
Ion Ratio	Lower	Upper	
276	100		
138	24.9	18.9	28.3
277	24.3	19.2	28.8

