

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
 Data File : BM005631.D
 Acq On : 24 May 2016 04:54
 Operator : UM/SJ
 Sample : H3086-03RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 JHGF4RE

Manual Integrations
 APPROVED

umangi
 5/24/2016 7:41:59 PM

Quant Time: May 24 07:58:12 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 24 06:55:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	254636	20.00	ng/ul	0.00
18) Naphthalene-d8	10.60	136	1038019	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.44	164	508351	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.19	188	998969	20.00	ng/ul	0.00
75) Chrysene-d12	21.37	240	830903	20.00	ng/ul	0.01
83) Perylene-d12	23.67	264	920746	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.27	96	17308	2.98	ng/uL	0.00
5) Phenol-d5	6.99	99	381392	18.27	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.13	67	226500	18.73	ng/ul	0.00
9) 2-Chlorophenol-d4	7.34	132	323704	18.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.52	113	292837	17.12	ng/ul	0.00
19) Nitrobenzene-d5	8.96	128	154724	19.50	ng/ul	0.00
22) 2-Nitrophenol-d4	9.68	143	165833	18.98	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.23	165	292546	17.78	ng/ul	0.00
29) 4-Chloroaniline-d4	10.73	131	254378	15.44	ng/ul	0.00
43) Dimethylphthalate-d6	13.85	166	786955	18.96	ng/ul	0.00
46) Acenaphthylene-d8	14.14	160	1021910	19.70	ng/ul	0.00
51) 4-Nitrophenol-d4	14.67	143	107086	13.64	ng/ul	0.01
57) Fluorene-d10	15.44	176	675035	18.70	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.57	200	27102	4.72	ng/ul	0.01
70) Anthracene-d10	17.29	188	968835	20.36	ng/ul	0.00
76) Pyrene-d10	19.58	212	937123	24.90	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.52	264	855996	19.91	ng/ul	0.02

Target Compounds

					Qvalue
44) Dimethylphthalate	13.90	163	140714	3.43 ng/ul	100
47) Acenaphthylene	14.17	152	1886416	35.79 ng/ul	99
49) Acenaphthene	14.51	153	52711	1.52 ng/ul#	92
58) Fluorene	15.49	166	84003	2.12 ng/ul#	99
69) Phenanthrene	17.23	178	662886	11.87 ng/ul	99
71) Anthracene	17.32	178	1057979	18.59 ng/ul	99
72) Carbazole	17.59	167	57554	1.17 ng/ul#	91
74) Fluoranthene	19.25	202	3211620	51.11 ng/ul	98
77) Pyrene	19.62	202	3847872	80.56 ng/ul	100
80) Benzo(a)anthracene	21.36	228	2358568	48.29 ng/ul#	88
82) Chrysene	21.41	228	2365460	50.91 ng/ul	95
85) Benzo(b)fluoranthene	22.99	252	3805077	70.07 ng/ul#	95
86) Benzo(k)fluoranthene	23.01	252	1281624m	24.93 ng/ul	
88) Benzo(a)pyrene	23.57	252	3049667	57.89 ng/ul	96
89) Indeno(1,2,3-cd)pyrene	26.00	276	2354412	37.63 ng/ul	99
90) Dibenzo(a,h)anthracene	26.00	278	602126	11.55 ng/ul#	88
91) Benzo(g,h,i)perylene	26.72	276	1846792	35.11 ng/ul	97

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

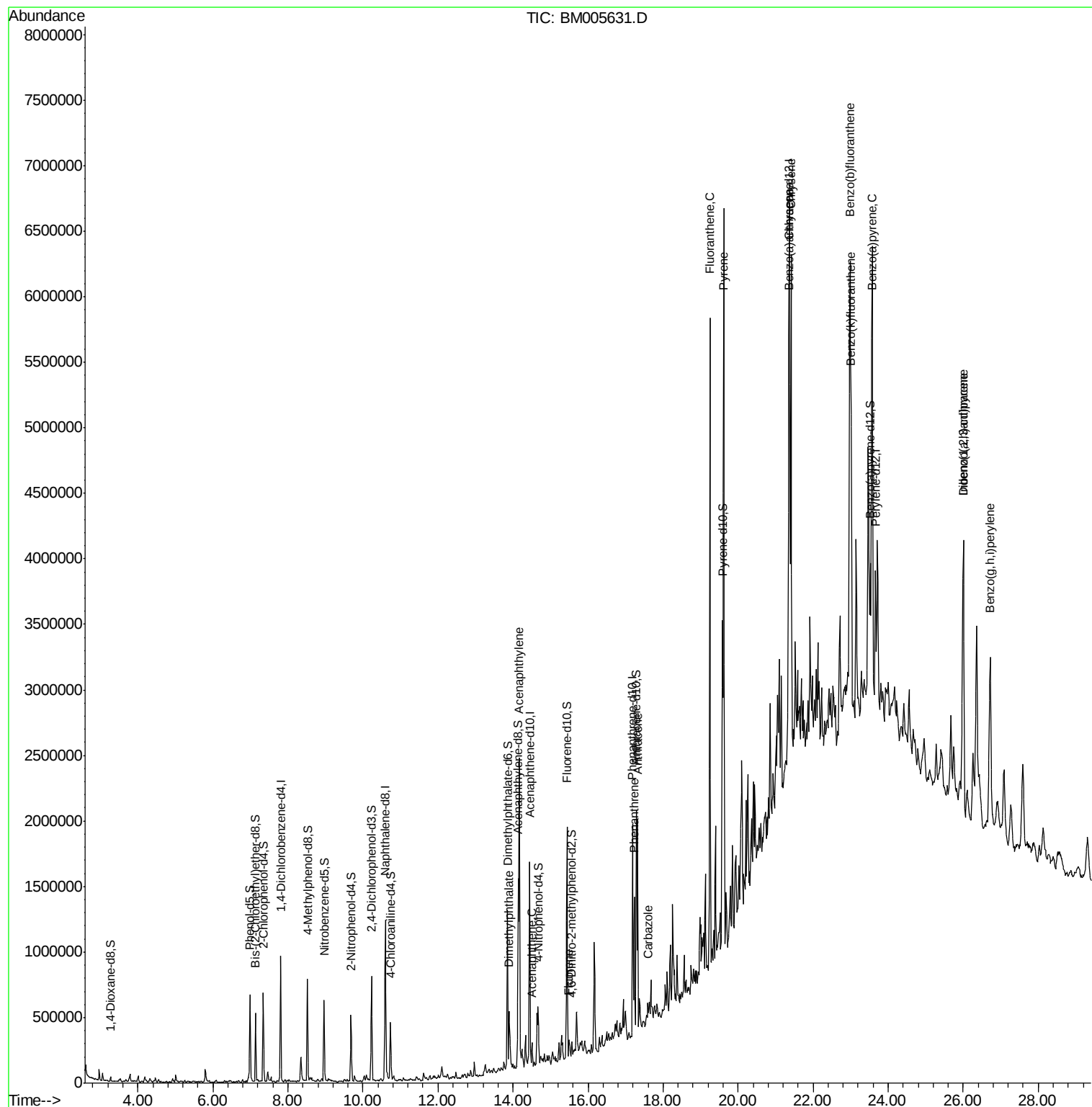
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005631.D
Acq On : 24 May 2016 04:54
Operator : UM/SJ
Sample : H3086-03RE
Misc :
ALS Vial : 17 Sample Multiplier: 1

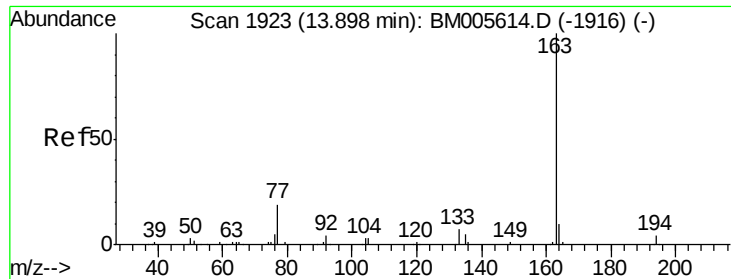
Instrument :
BNA_M
ClientSampled :
JHGF4RE

Manual Integrations
APPROVED

umangi
5/24/2016 7:41:59 PM

Quant Time: May 24 07:58:12 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 24 06:55:29 2016
Response via : Initial Calibration





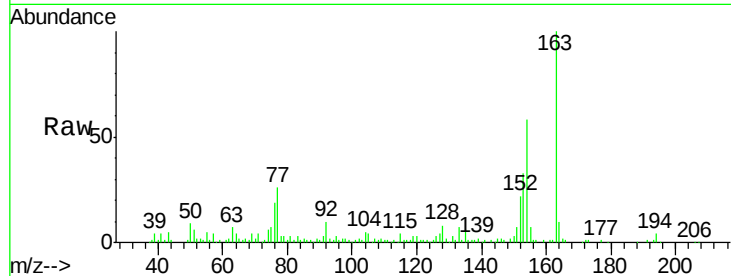
#44
Dimethylphthalate
Concen: 3.43 ng/ul
RT: 13.90 min Scan# 1923
Delta R.T. -0.00 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Instrument :
BNA_M
ClientSampleId :
JHGF4RE

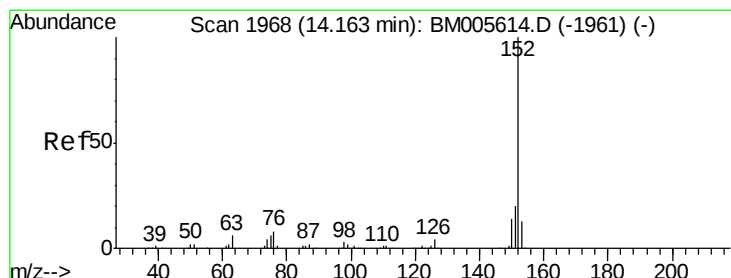
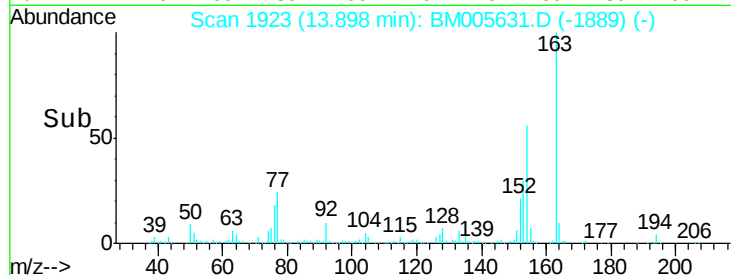
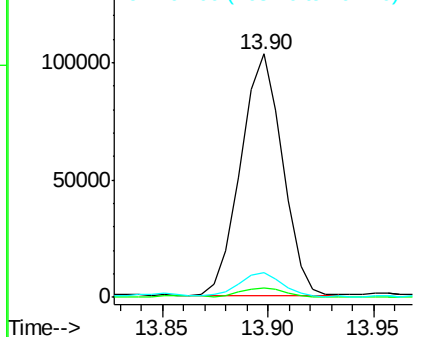
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	140714		
194	3.9		3.4	5.0
164	10.0		8.0	12.0

Manual Integrations
APPROVED

umangi
5/24/2016 7:41:59 PM



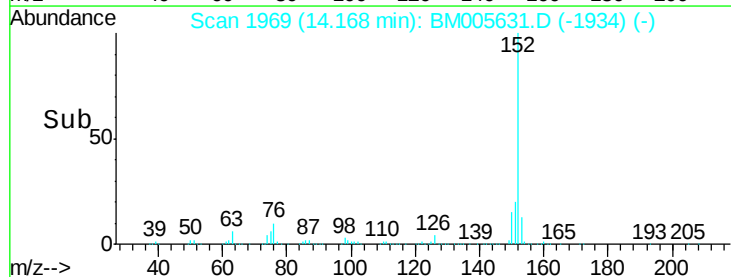
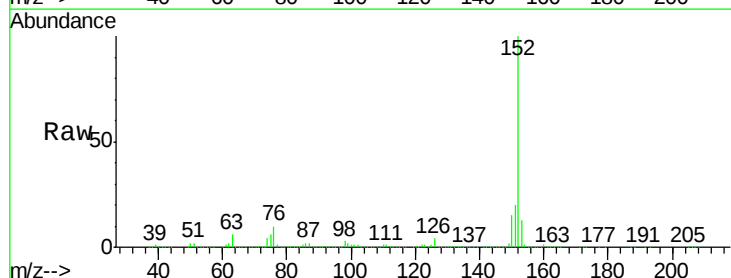
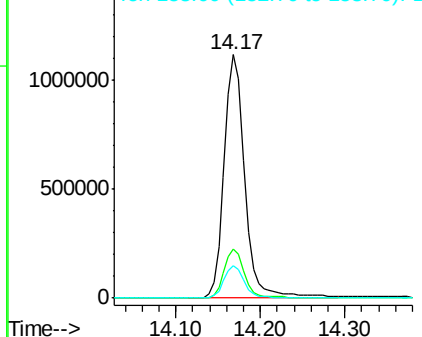
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

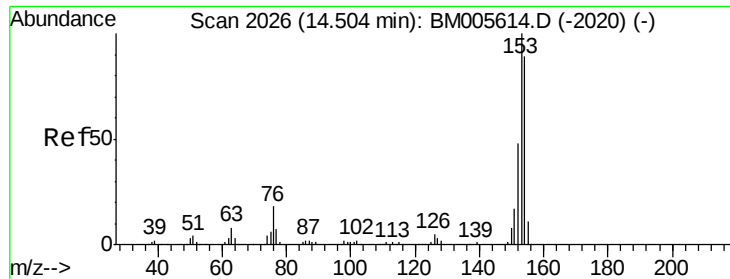


#47
Acenaphthylene
Concen: 35.79 ng/ul
RT: 14.17 min Scan# 1969
Delta R.T. 0.01 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	1886416		
151	20.3		15.7	23.5
153	13.2		10.5	15.7

Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 1.52 ng/ul

RT: 14.51 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BM005631.D

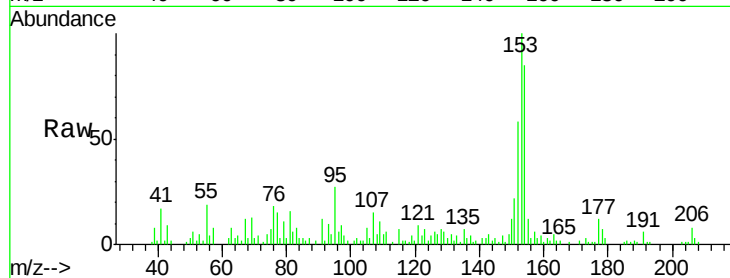
Acq: 24 May 2016 04:54

Instrument :

BNA_M

ClientSampleId :

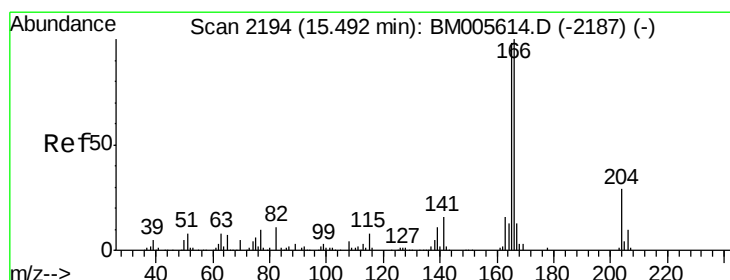
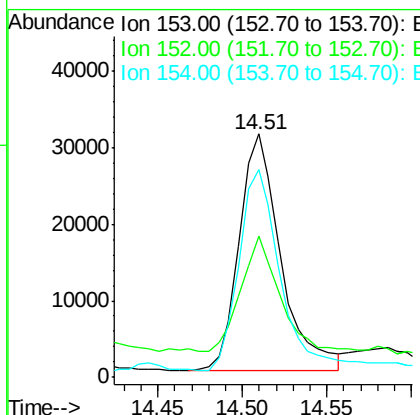
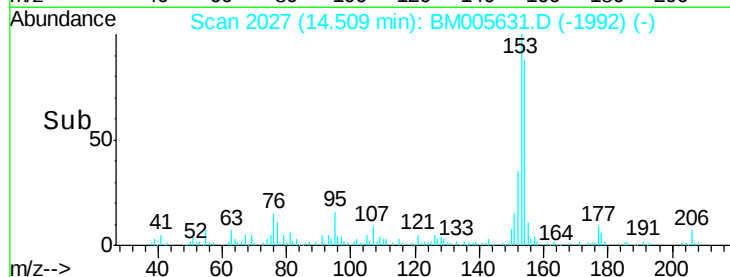
JHGF4RE



Tgt Ion:	153	Resp:	52711
Ion Ratio	Lower	Upper	
153	100		
152	58.0	37.8	56.6#
154	85.2	71.1	106.7

Manual Integrations
APPROVED

umangi
5/24/2016 7:41:59 PM



#58

Fluorene

Concen: 2.12 ng/ul

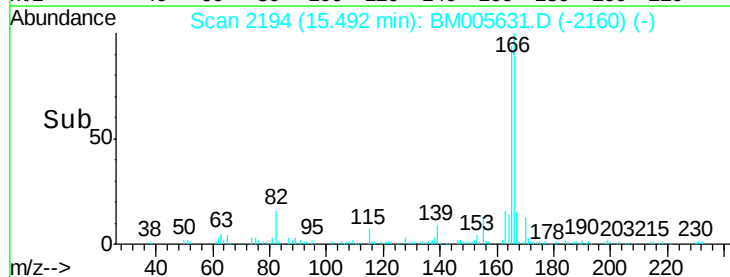
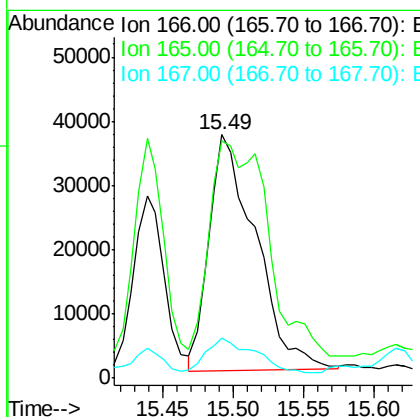
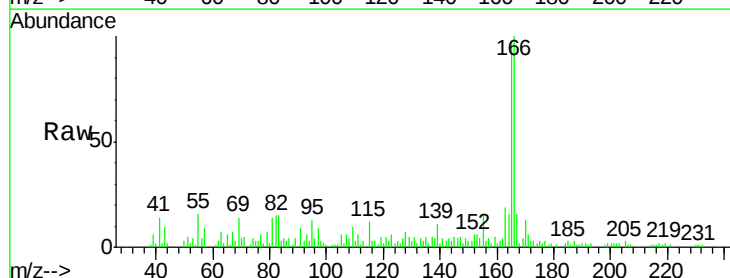
RT: 15.49 min Scan# 2194

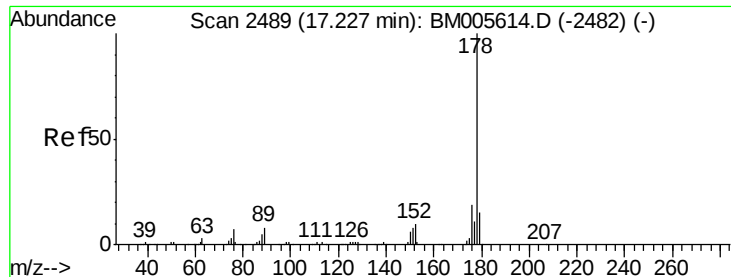
Delta R.T. -0.00 min

Lab File: BM005631.D

Acq: 24 May 2016 04:54

Tgt Ion:	166	Resp:	84003
Ion Ratio	Lower	Upper	
166	100		
165	97.2	78.0	117.0
167	16.3	10.5	15.7#





#69

Phenanthrene

Concen: 11.87 ng/ul

RT: 17.23 min Scan# 2490

Delta R.T. 0.01 min

Lab File: BM005631.D

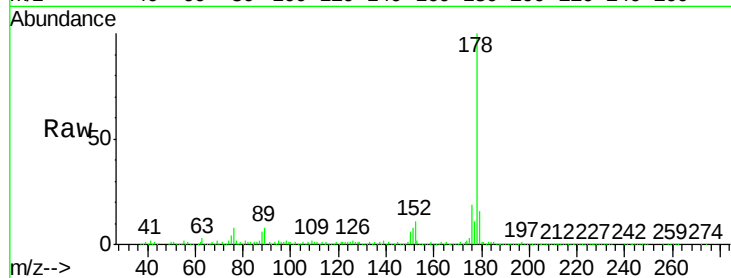
Acq: 24 May 2016 04:54

Instrument :

BNA_M

ClientSampleId :

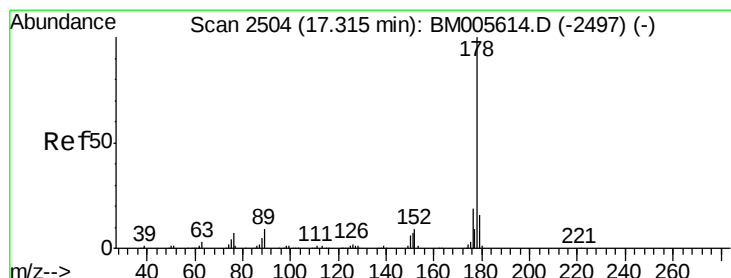
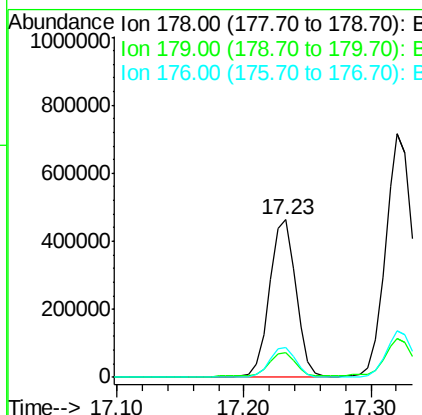
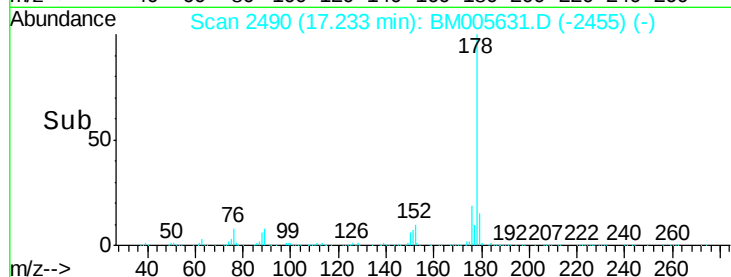
JHGF4RE



Tgt Ion:	178	Resp:	662886
Ion Ratio	Lower	Upper	
178	100		
179	15.9	12.2	18.2
176	19.2	15.8	23.6

Manual Integrations
APPROVED

umangi
5/24/2016 7:41:59 PM



#71

Anthracene

Concen: 18.59 ng/ul

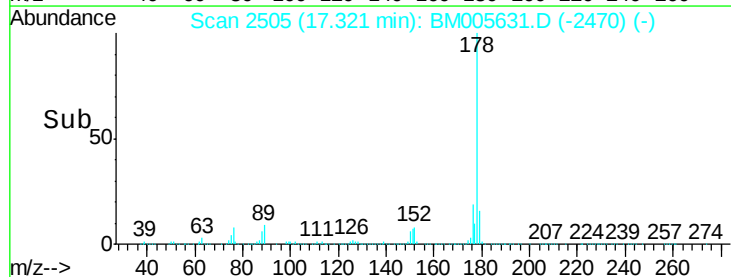
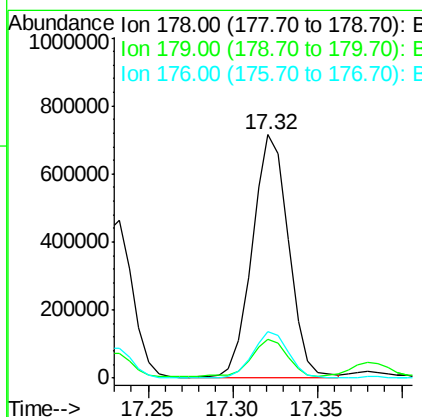
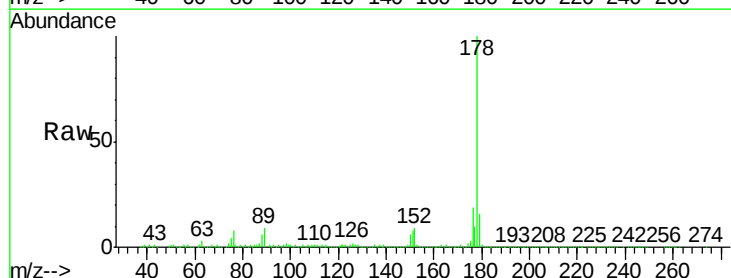
RT: 17.32 min Scan# 2505

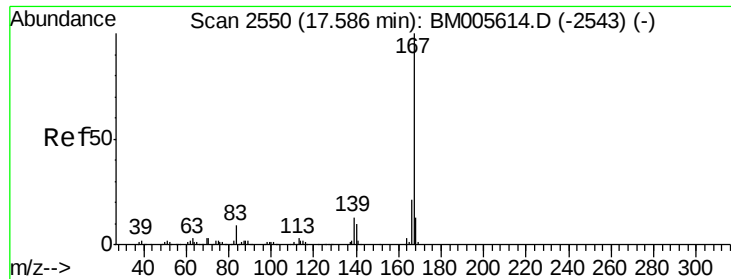
Delta R.T. 0.01 min

Lab File: BM005631.D

Acq: 24 May 2016 04:54

Tgt Ion:	178	Resp:	1057979
Ion Ratio	Lower	Upper	
178	100		
179	16.1	12.6	18.8
176	18.9	15.0	22.4





#72

Carbazole

Concen: 1.17 ng/ul

RT: 17.59 min Scan# 2551

Delta R.T. 0.01 min

Lab File: BM005631.D

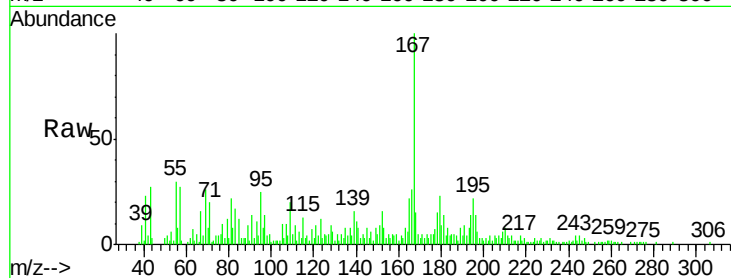
Acq: 24 May 2016 04:54

Instrument :

BNA_M

ClientSampleId :

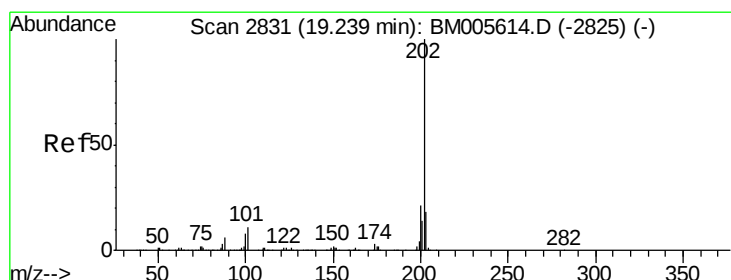
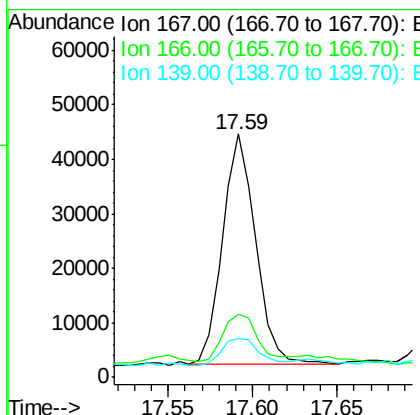
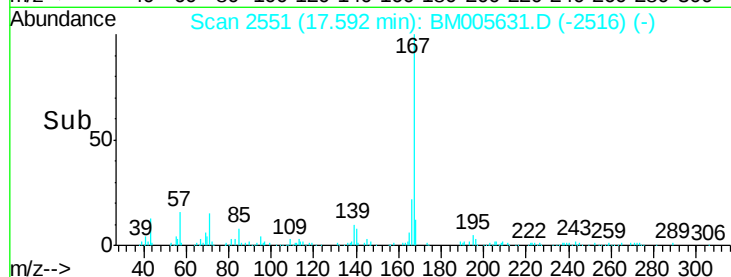
JHGF4RE



Tgt Ion	Ratio	Lower	Upper
167	100		
166	26.1	16.9	25.3#
139	16.0	10.6	16.0#

Manual Integrations
APPROVED

umangi
5/24/2016 7:41:59 PM



#74

Fluoranthene

Concen: 51.11 ng/ul

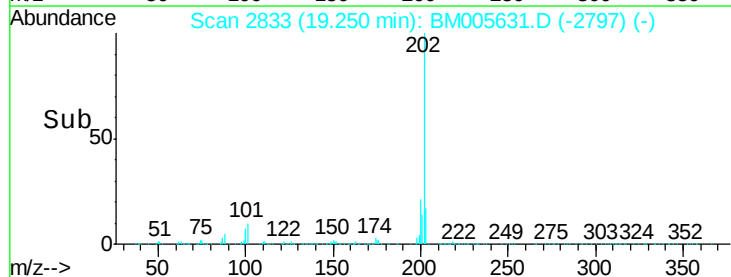
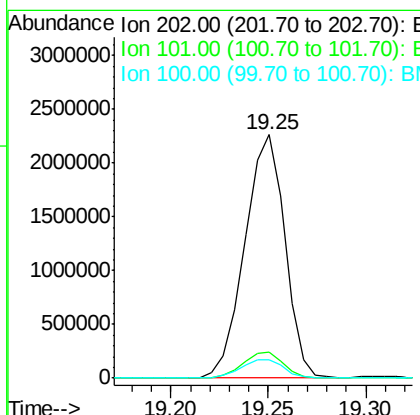
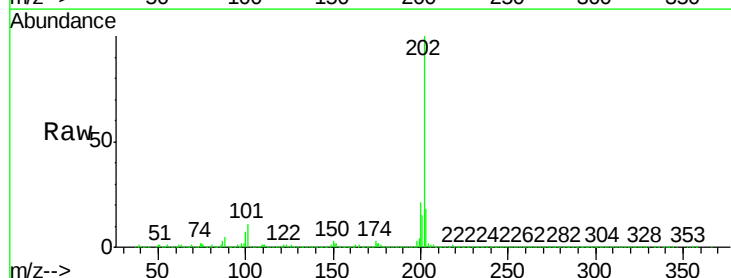
RT: 19.25 min Scan# 2833

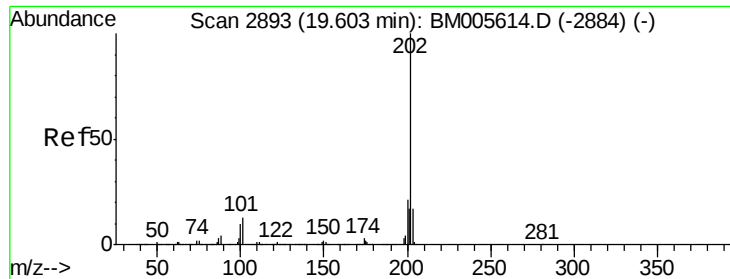
Delta R.T. 0.01 min

Lab File: BM005631.D

Acq: 24 May 2016 04:54

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	7.9	11.9
100	7.5	5.6	8.4





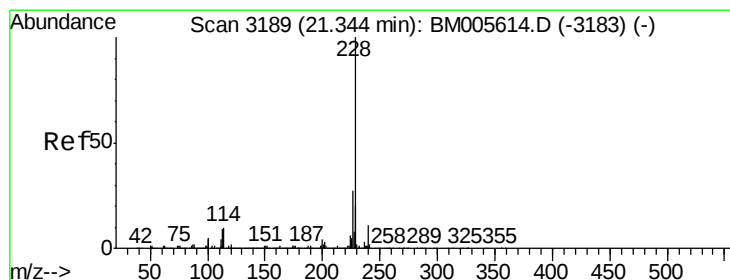
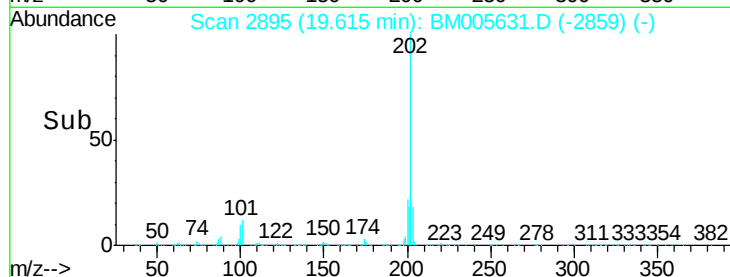
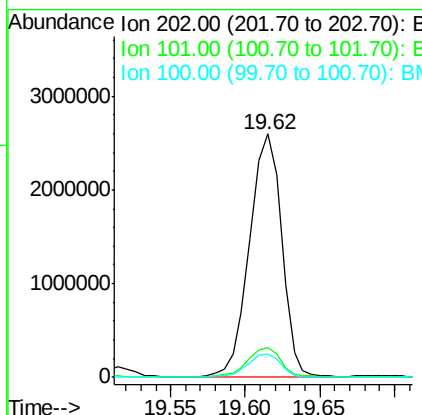
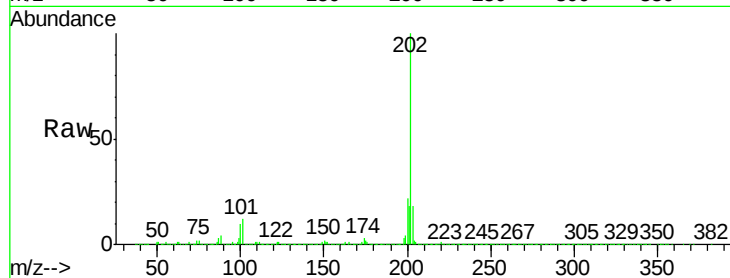
#77
 Pyrene
 Concen: 80.56 ng/ul
 RT: 19.62 min Scan# 2895
 Delta R.T. 0.01 min
 Lab File: BM005631.D
 Acq: 24 May 2016 04:54

Instrument :
 BNA_M
 ClientSampleId :
 JHGF4RE

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.6	14.4
100	9.5	7.8	11.6

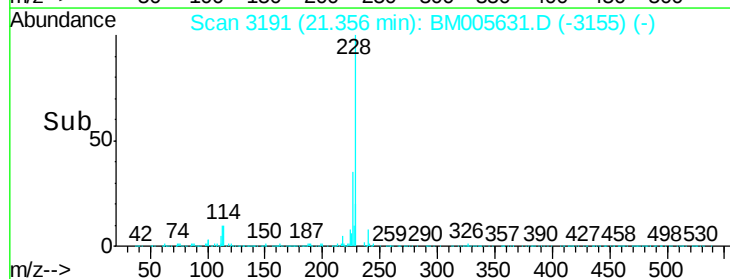
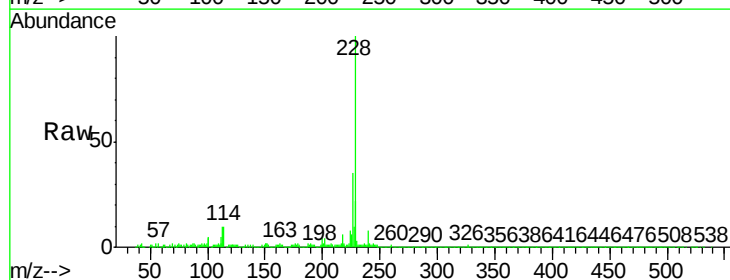
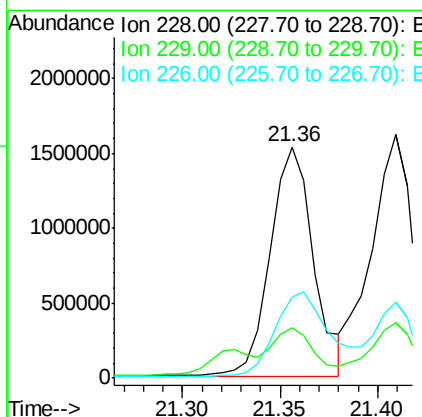
Manual Integrations
 APPROVED

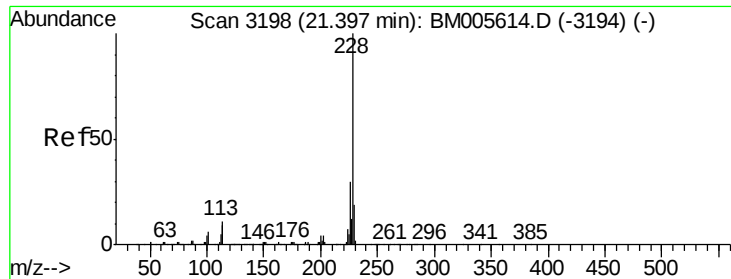
umangi
 5/24/2016 7:41:59 PM



#80
 Benzo(a)anthracene
 Concen: 48.29 ng/ul
 RT: 21.36 min Scan# 3191
 Delta R.T. 0.01 min
 Lab File: BM005631.D
 Acq: 24 May 2016 04:54

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.6	15.4	23.2
226	35.3	21.0	31.4#





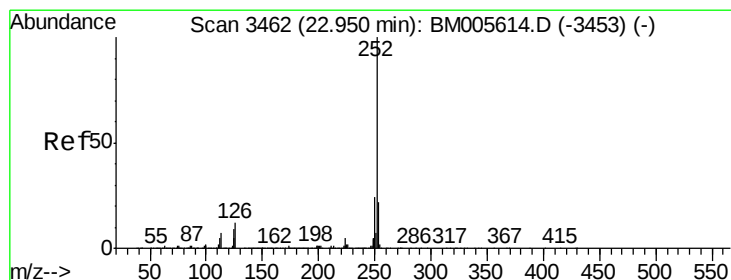
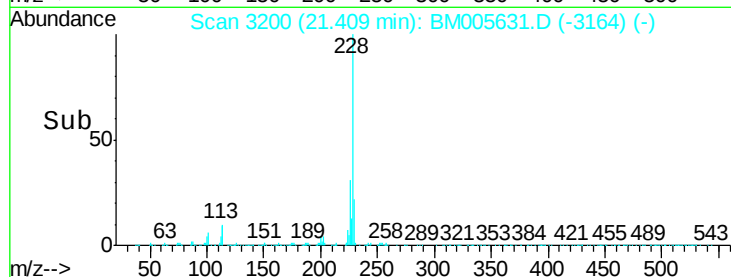
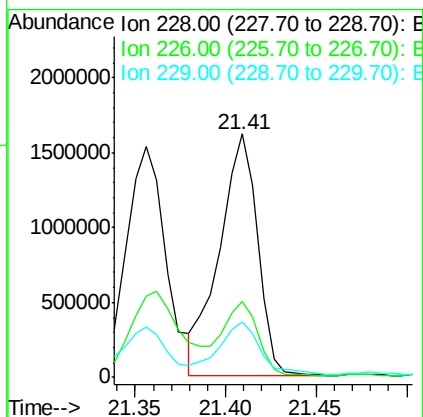
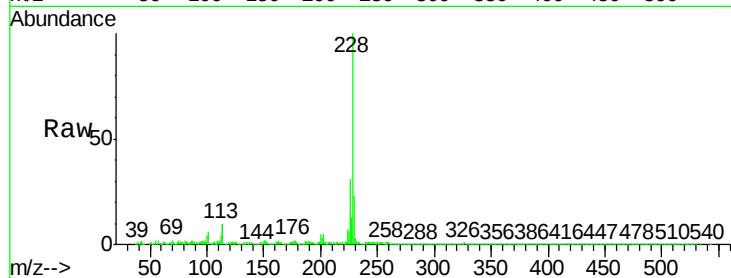
#82
Chrysene
Concen: 50.91 ng/ul
RT: 21.41 min Scan# 3200
Delta R.T. 0.01 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Instrument :
BNA_M
ClientSampleId :
JHGF4RE

Tgt Ion:228 Resp: 2365460
Ion Ratio Lower Upper
228 100
226 31.4 23.7 35.5
229 22.6 15.5 23.3

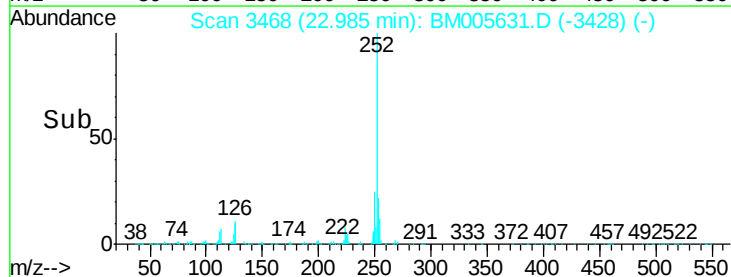
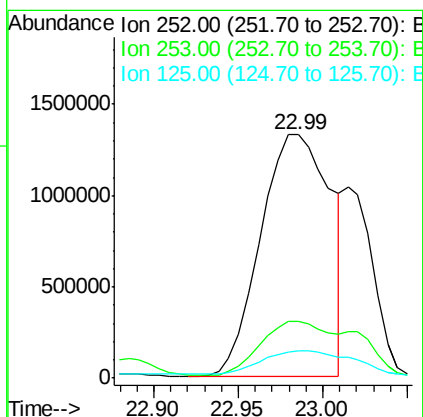
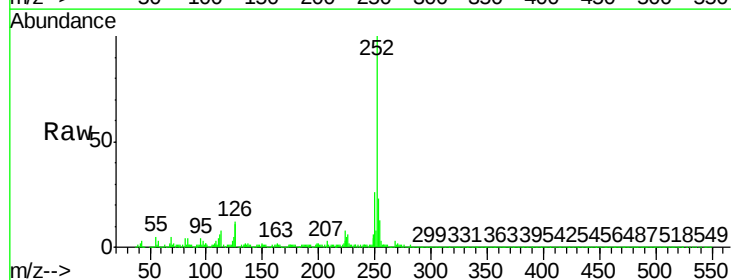
Manual Integrations
APPROVED

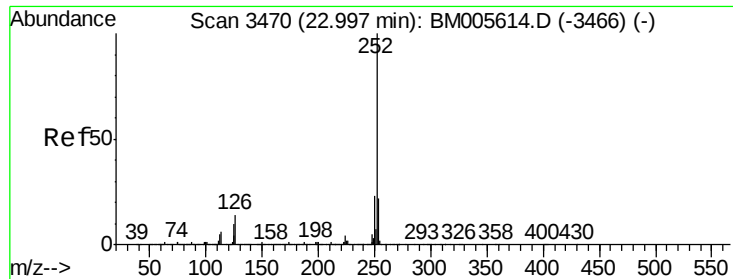
umangi
5/24/2016 7:41:59 PM



#85
Benzo(b)fluoranthene
Concen: 70.07 ng/ul
RT: 22.99 min Scan# 3468
Delta R.T. 0.04 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Tgt Ion:252 Resp: 3805077
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 11.2 7.0 10.4#





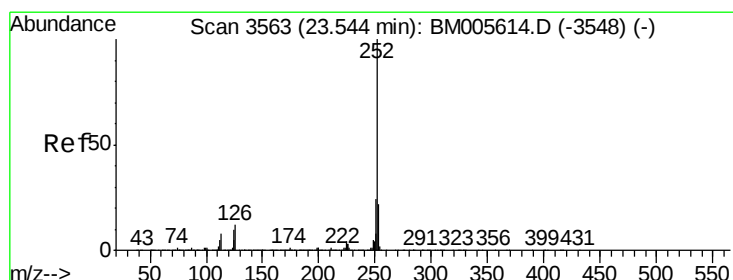
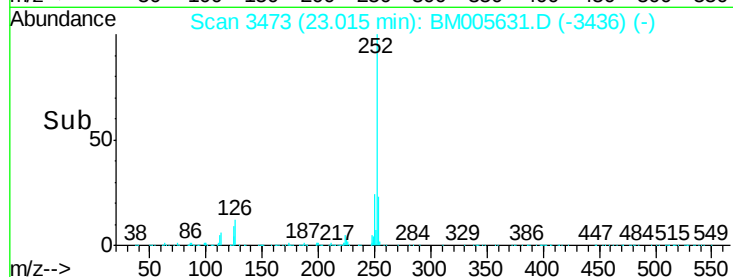
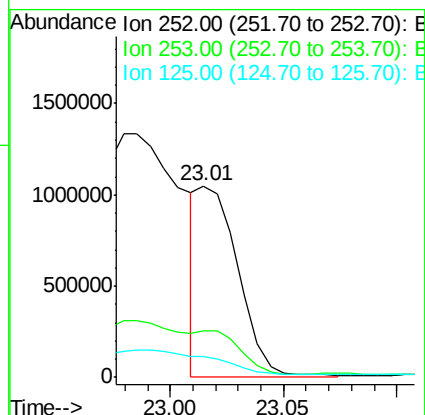
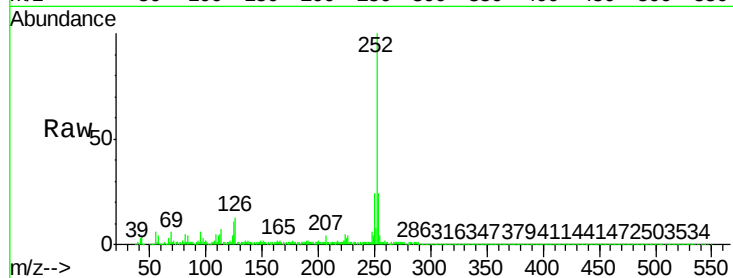
#86
Benzo(k)fluoranthene
Concen: 24.93 ng/ul m
RT: 23.01 min Scan# 3473
Delta R.T. 0.02 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Instrument :
BNA_M
ClientSampleId :
JHGF4RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	10.7	7.0	10.6

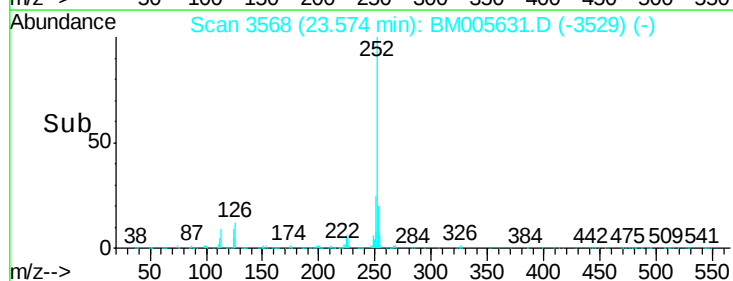
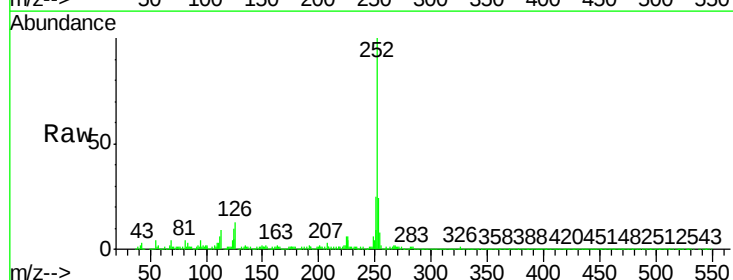
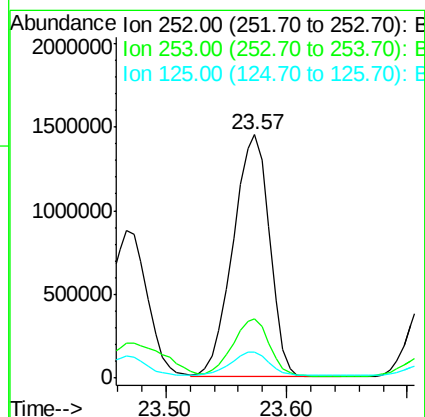
Manual Integrations
APPROVED

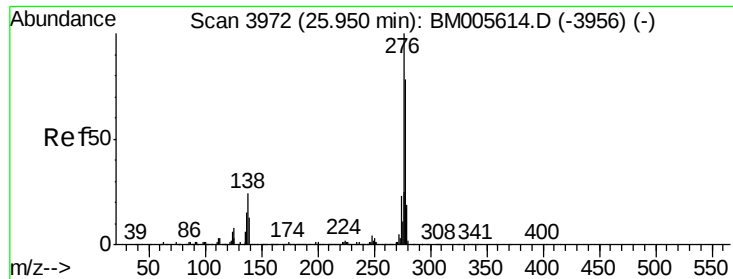
umangi
5/24/2016 7:41:59 PM



#88
Benzo(a)pyrene
Concen: 57.89 ng/ul
RT: 23.57 min Scan# 3568
Delta R.T. 0.03 min
Lab File: BM005631.D
Acq: 24 May 2016 04:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.6	26.4
125	10.5	7.6	11.4





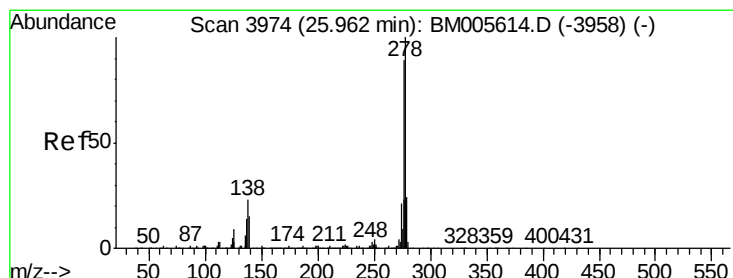
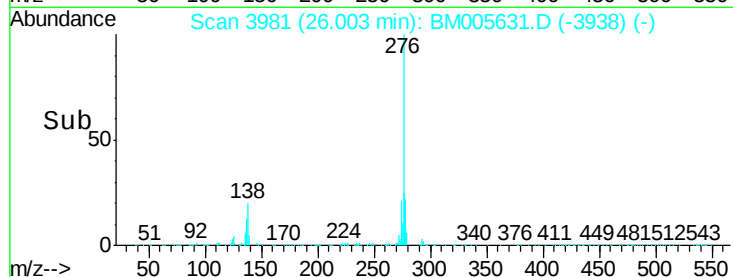
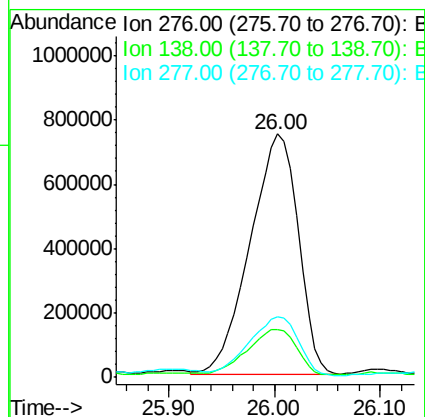
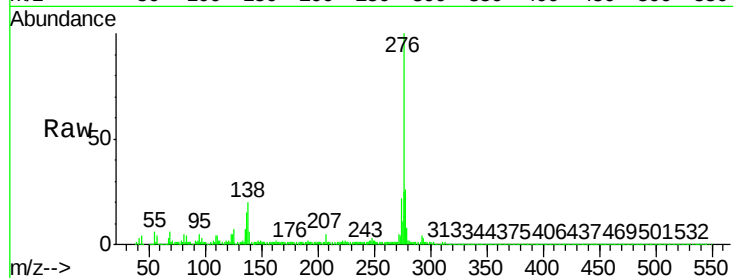
#89
 Indeno(1,2,3-cd)pyrene
 Concen: 37.63 ng/ul
 RT: 26.00 min Scan# 3981
 Delta R.T. 0.05 min
 Lab File: BM005631.D
 Acq: 24 May 2016 04:54

Instrument :
 BNA_M
 ClientSampleId :
 JHGF4RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.9	25.3
277	25.1	20.2	30.4

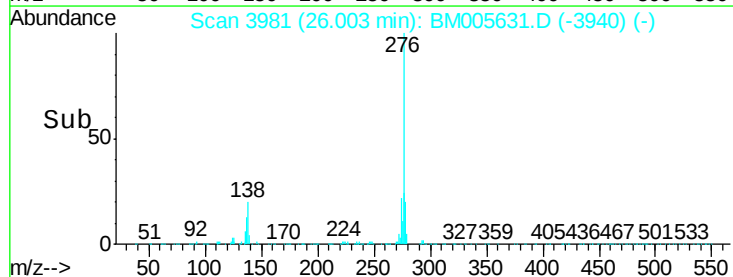
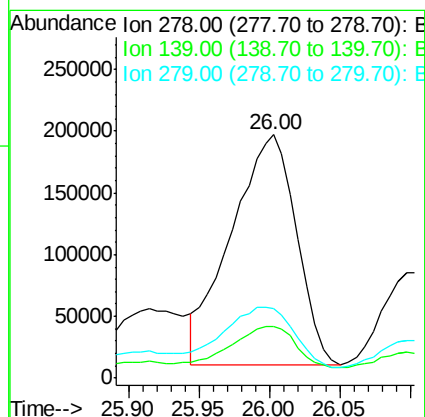
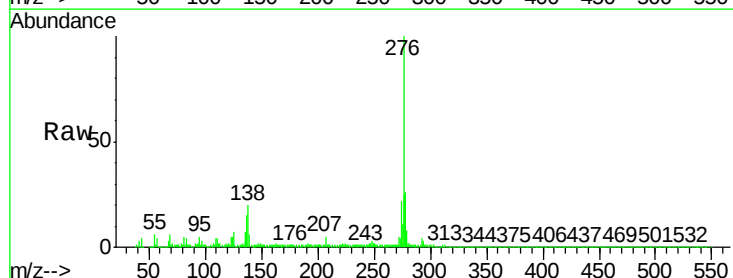
Manual Integrations
 APPROVED

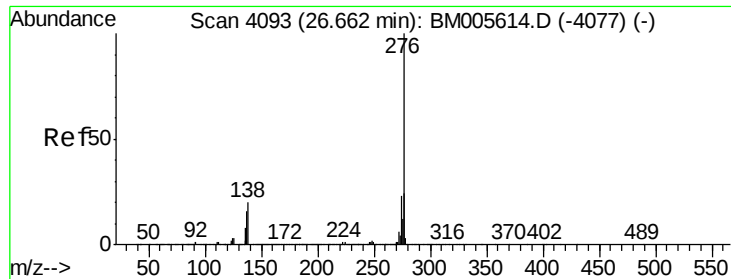
umangi
 5/24/2016 7:41:59 PM



#90
 Dibenzo(a,h)anthracene
 Concen: 11.55 ng/ul
 RT: 26.00 min Scan# 3981
 Delta R.T. 0.04 min
 Lab File: BM005631.D
 Acq: 24 May 2016 04:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.3	11.8	17.6#
279	28.8	19.4	29.2





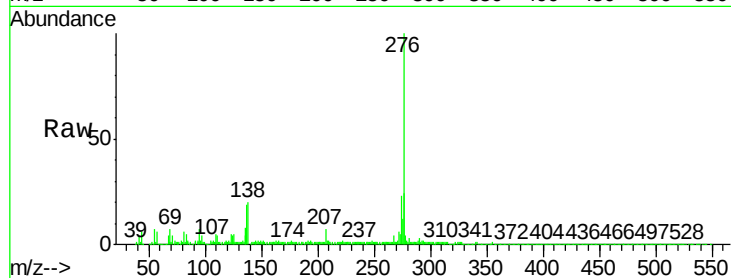
#91
 Benzo(g,h,i)perylene
 Concen: 35.11 ng/ul
 RT: 26.72 min Scan# 4103
 Delta R.T. 0.06 min
 Lab File: BM005631.D
 Acq: 24 May 2016 04:54

Instrument :
 BNA_M
 ClientSampleId :
 JHGF4RE

Tgt Ion:	276	Resp:	1846792
Ion	Ratio	Lower	Upper
276	100		
138	20.3	15.0	22.6
277	24.5	18.6	28.0

Manual Integrations
 APPROVED

umangi
 5/24/2016 7:41:59 PM



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

