

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052116\
 Data File : BM005575.D
 Acq On : 22 May 2016 06:03
 Operator : UM/SJ
 Sample : H2890-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9WT5

Manual Integrations
 APPROVED

umangi
 5/23/2016 8:32:57 PM

Quant Time: May 23 12:18:31 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 23 05:32:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	135860	20.00	ng/ul	0.02
18) Naphthalene-d8	10.62	136	535650	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.46	164	284421	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.20	188	586370	20.00	ng/ul	0.02
75) Chrysene-d12	21.39	240	602058	20.00	ng/ul	0.02
83) Perylene-d12	23.69	264	650272	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	6628	2.14	ng/uL	0.02
5) Phenol-d5	7.00	99	130529	11.72	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.16	67	92237	14.29	ng/ul	0.01
9) 2-Chlorophenol-d4	7.36	132	113122	12.18	ng/ul	0.02
13) 4-Methylphenol-d8	8.53	113	104666	11.47	ng/ul	0.02
19) Nitrobenzene-d5	8.98	128	57269	13.98	ng/ul	0.01
22) 2-Nitrophenol-d4	9.70	143	62793	13.93	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.24	165	100418	11.83	ng/ul	0.01
29) 4-Chloroaniline-d4	10.73	131	24351	2.86	ng/ul	-0.01
43) Dimethylphthalate-d6	13.87	166	299401	12.90	ng/ul	0.01
46) Acenaphthylene-d8	14.16	160	382068	13.16	ng/ul	0.02
51) 4-Nitrophenol-d4	14.67	143	23960	5.46	ng/ul	0.02
57) Fluorene-d10	15.45	176	260522	12.90	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.58	200	34216	10.14	ng/ul	0.02
70) Anthracene-d10	17.30	188	369168	13.22	ng/ul	0.02
76) Pyrene-d10	19.59	212	363604	13.34	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.54	264	355270	11.70	ng/ul	0.04

Target Compounds

						Qvalue
11) 2-Methylphenol	8.27	108	18446	2.12	ng/ul	99
14) Acetophenone	8.63	105	186635	13.58	ng/ul#	44
16) 4-Methylphenol	8.59	108	14889	1.58	ng/ul	97
24) 2,4-Dimethylphenol	9.79	107	43744m	4.37	ng/ul	
28) Naphthalene	10.67	128	2815894	104.65	ng/ul	99
34) 2-Methylnaphthalene	12.29	142	2635376	133.85	ng/ul	98
40) 1,1'-Biphenyl	13.29	154	305671	12.80	ng/ul	99
44) Dimethylphthalate	13.92	163	112809	4.92	ng/ul	98
53) Dibenzofuran	14.86	168	870215	31.34	ng/ul	94
58) Fluorene	15.51	166	62377m	2.81	ng/ul	
69) Phenanthrene	17.25	178	1923296	58.69	ng/ul	99
72) Carbazole	17.61	167	106300	3.67	ng/ul#	80
74) Fluoranthene	19.26	202	448327	12.15	ng/ul	99
77) Pyrene	19.63	202	468073	13.52	ng/ul	98
80) Benzo(a)anthracene	21.37	228	287848	8.13	ng/ul#	82
82) Chrysene	21.42	228	399823	11.88	ng/ul#	89
85) Benzo(b)fluoranthene	22.99	252	311783	8.13	ng/ul#	87
86) Benzo(k)fluoranthene	23.03	252	61523m	1.69	ng/ul	
88) Benzo(a)pyrene	23.59	252	156803	4.21	ng/ul#	81
89) Indeno(1,2,3-cd)pyrene	26.01	276	99716	2.26	ng/ul#	89
90) Dibenzo(a,h)anthracene	26.01	278	44035	1.20	ng/ul#	42
91) Benzo(g,h,i)perylene	26.73	276	135568	3.65	ng/ul#	89

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052116\
Data File : BM005575.D
Acq On : 22 May 2016 06:03
Operator : UM/SJ
Sample : H2890-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9WT5

Manual Integrations
APPROVED

umangi
5/23/2016 8:32:57 PM

Quant Time: May 23 12:18:31 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 23 05:32:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

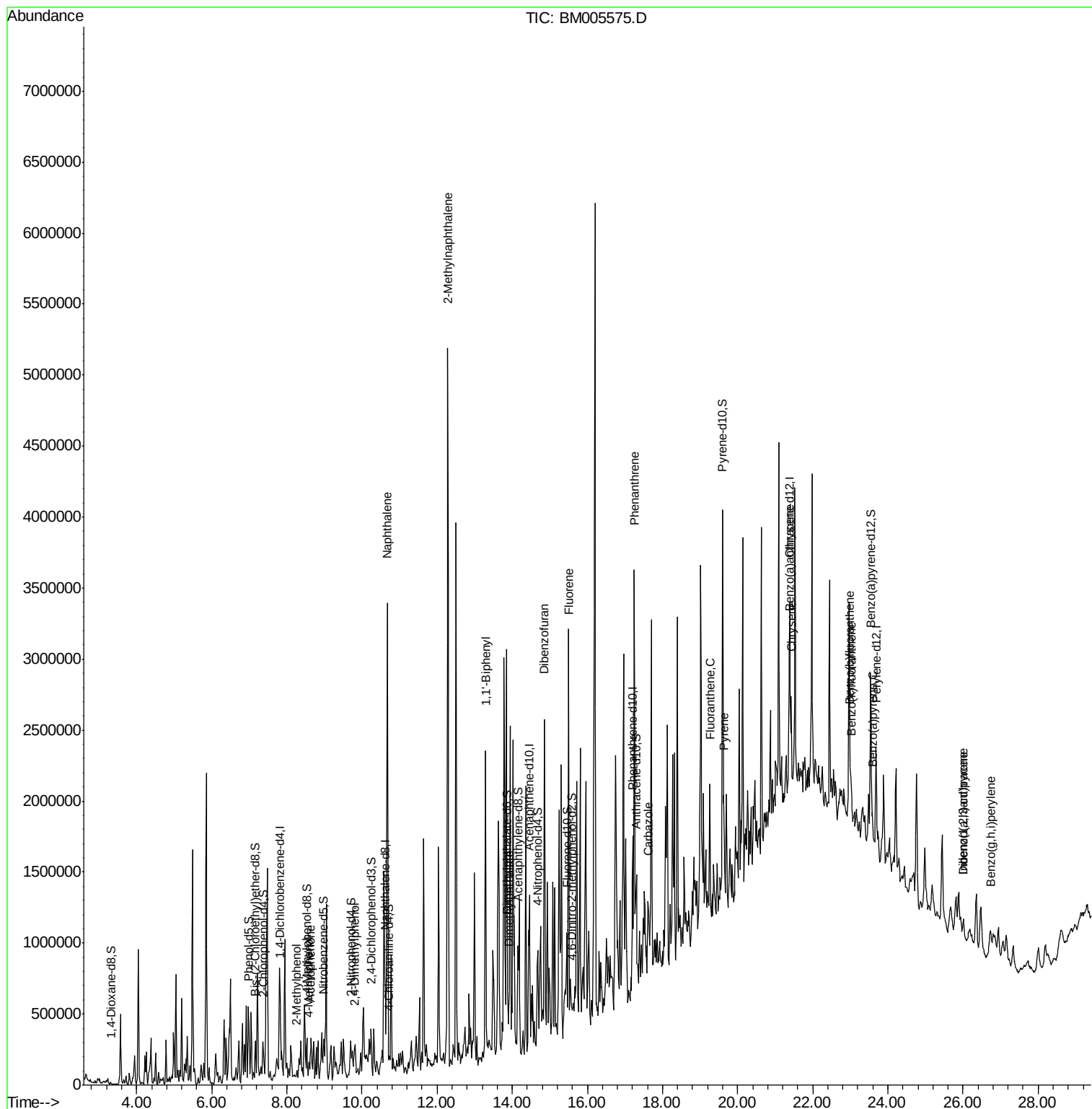
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052116\
Data File : BM005575.D
Acq On : 22 May 2016 06:03
Operator : UM/SJ
Sample : H2890-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

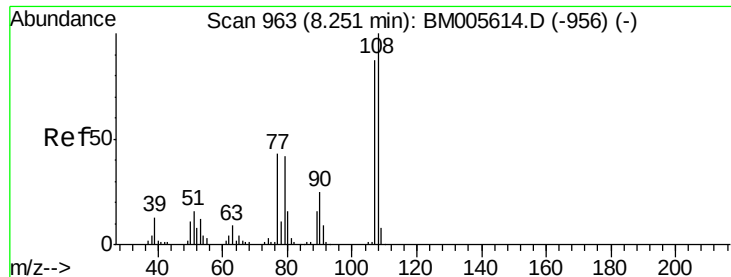
Instrument :
BNA_M
ClientSampleId :
D9WT5

Quant Time: May 23 12:18:31 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 23 05:32:02 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

umangi
5/23/2016 8:32:57 PM





#11

2-Methylphenol

Concen: 2.12 ng/ul

RT: 8.27 min Scan# 966

Delta R.T. 0.01 min

Lab File: BM005575.D

Acq: 22 May 2016 06:03

Instrument :

BNA_M

ClientSampleId :

D9WT5

Tgt Ion:108 Resp: 18446

Ion Ratio Lower Upper

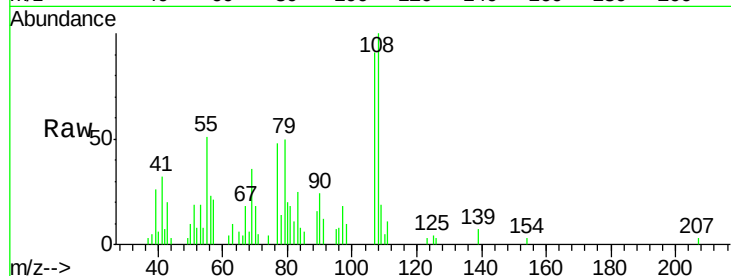
108 100

107 91.4 74.0 111.0

Manual Integrations
APPROVED

umangi

5/23/2016 8:32:57 PM



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

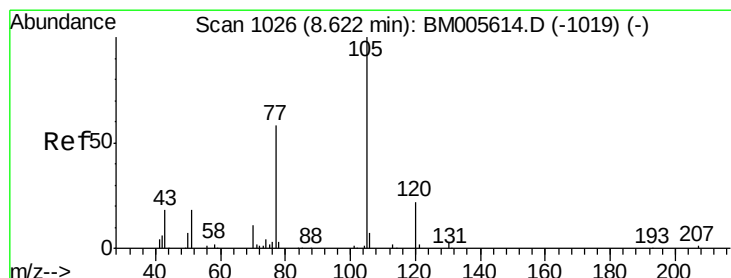
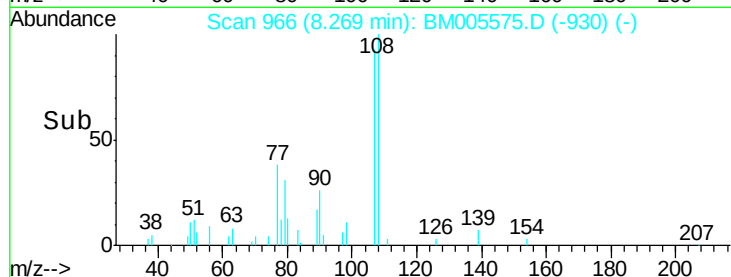
8.27

10000

5000

0

Time--> 8.20 8.25 8.30



#14

Acetophenone

Concen: 13.58 ng/ul

RT: 8.63 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BM005575.D

Acq: 22 May 2016 06:03

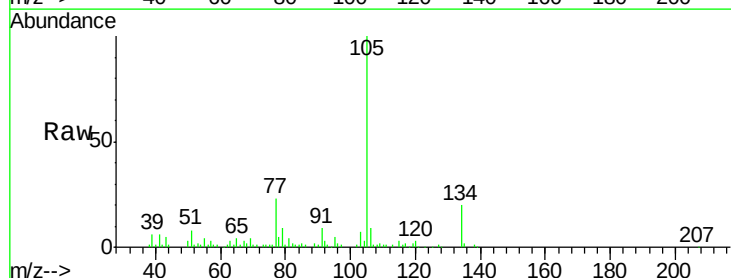
Tgt Ion:105 Resp: 186635

Ion Ratio Lower Upper

105 100

77 22.7 60.8 91.2#

51 8.1 22.2 33.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0

8.63

100000

80000

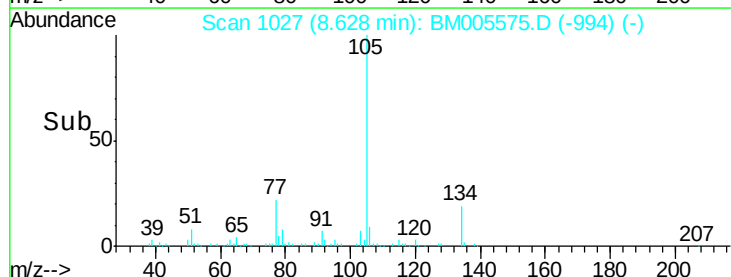
60000

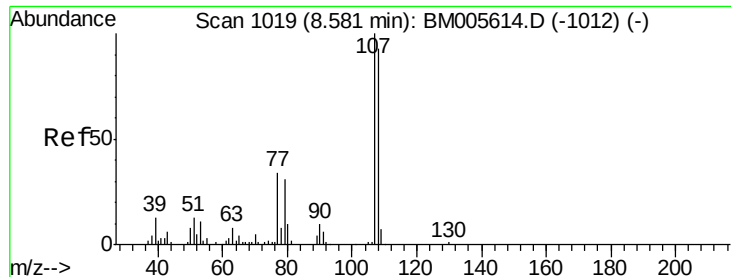
40000

20000

0

Time--> 8.55 8.60 8.65 8.70





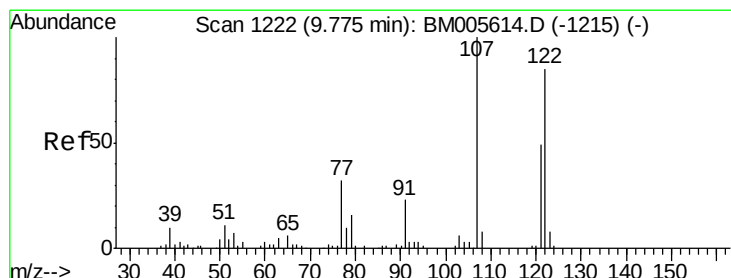
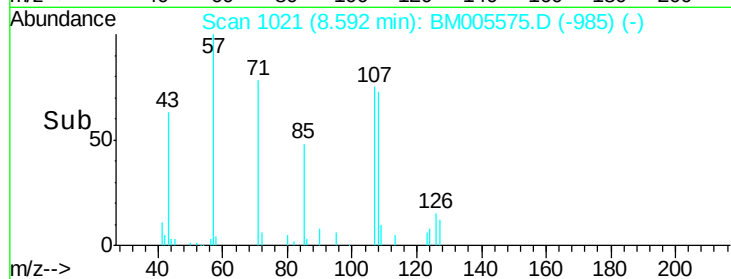
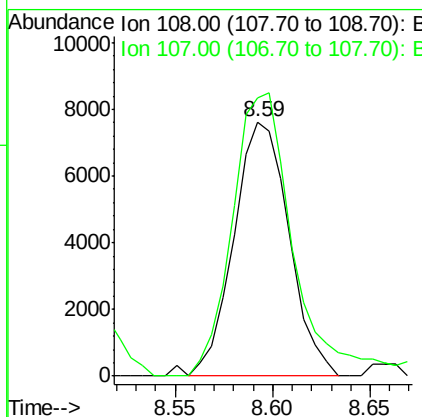
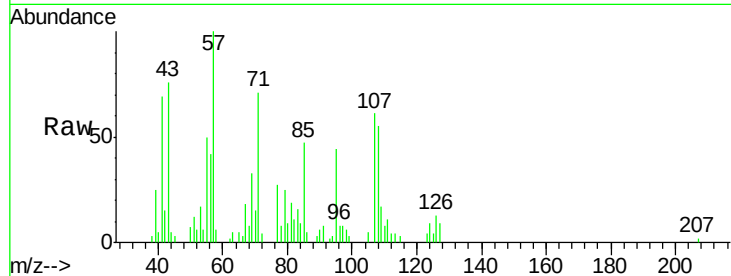
#16
4-Methylphenol
Concen: 1.58 ng/ul
RT: 8.59 min Scan# 1021
Delta R.T. 0.01 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampled :
D9WT5

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	14889		
107	109.4	90.3	135.5	

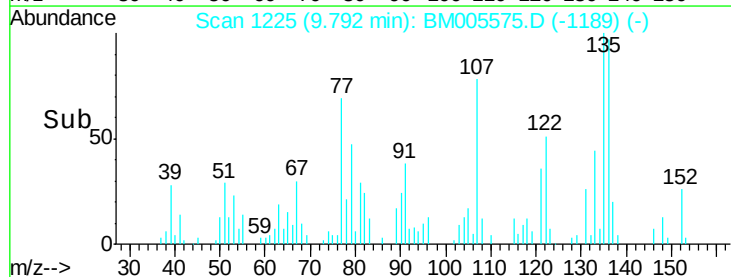
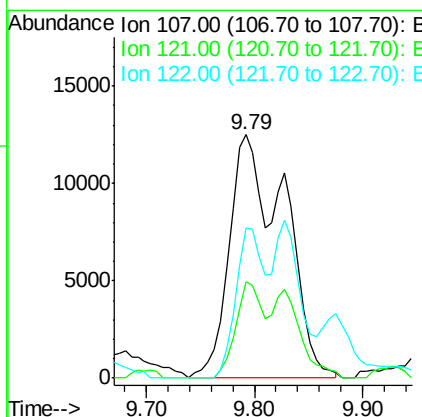
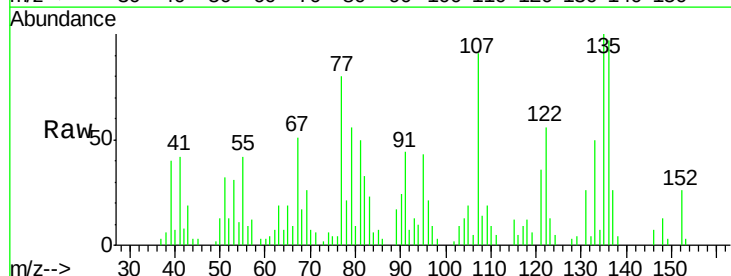
Manual Integrations
APPROVED

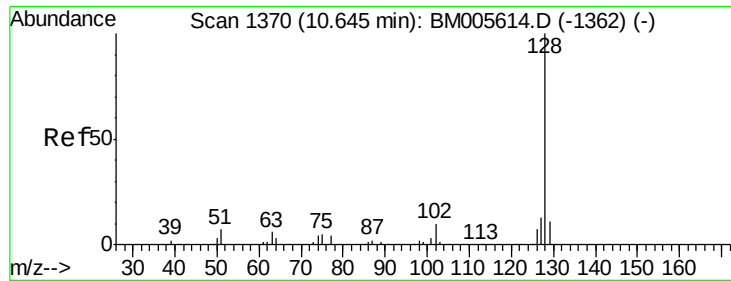
umangi
5/23/2016 8:32:57 PM



#24
2,4-Dimethylphenol
Concen: 4.37 ng/ul m
RT: 9.79 min Scan# 1225
Delta R.T. 0.01 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	43744		
121	39.6	37.5	56.3	
122	61.8	66.9	100.3#	





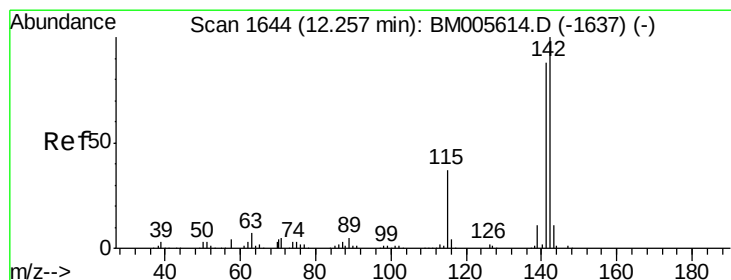
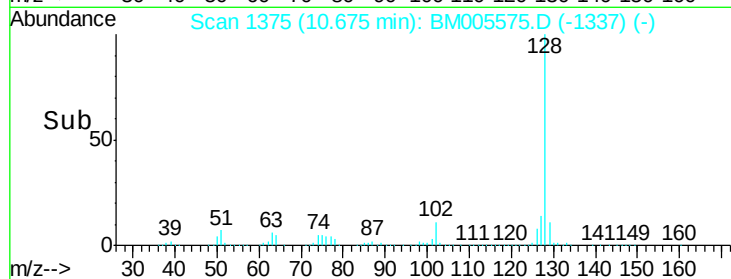
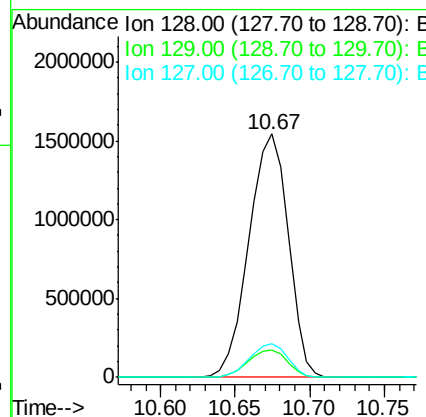
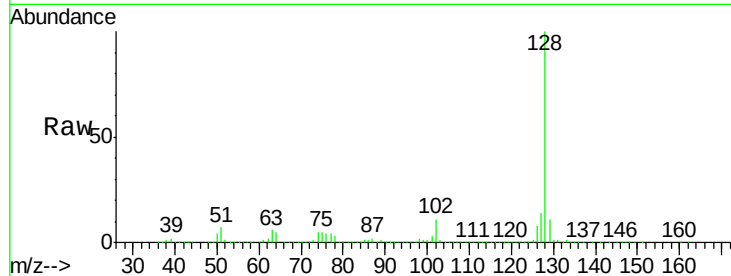
#28
Naphthalene
Concen: 104.65 ng/ul
RT: 10.67 min Scan# 1375
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampleId :
D9WT5

Tgt Ion:128 Resp: 2815894
Ion Ratio Lower Upper
128 100
129 11.2 8.6 13.0
127 13.6 10.6 15.8

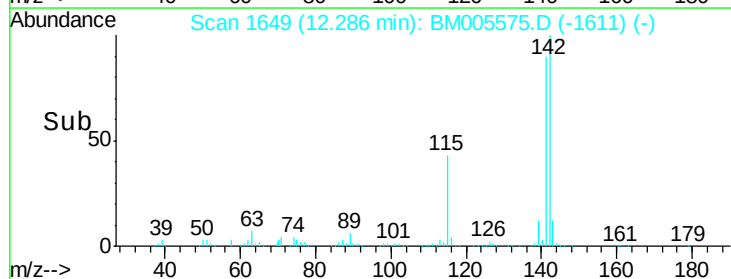
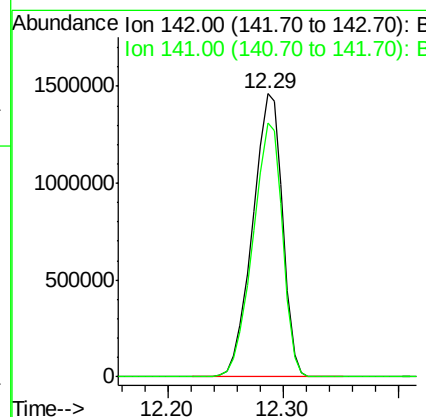
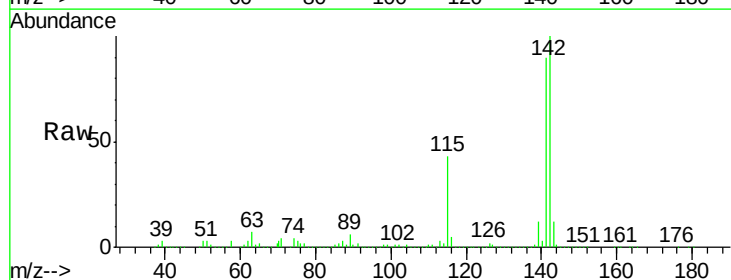
Manual Integrations
APPROVED

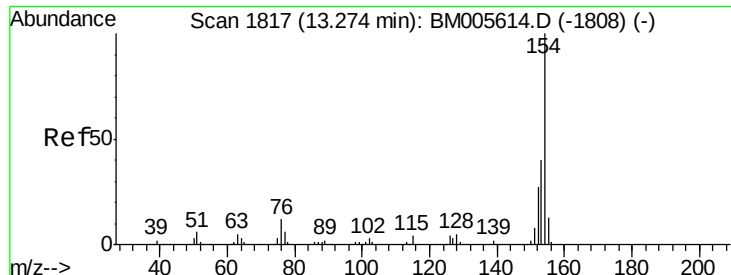
umangi
5/23/2016 8:32:57 PM



#34
2-Methylnaphthalene
Concen: 133.85 ng/ul
RT: 12.29 min Scan# 1649
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion:142 Resp: 2635376
Ion Ratio Lower Upper
142 100
141 89.9 70.6 106.0





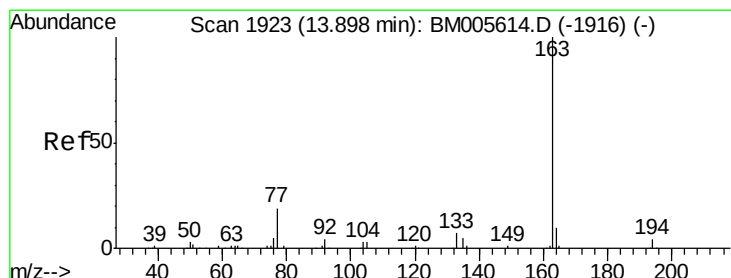
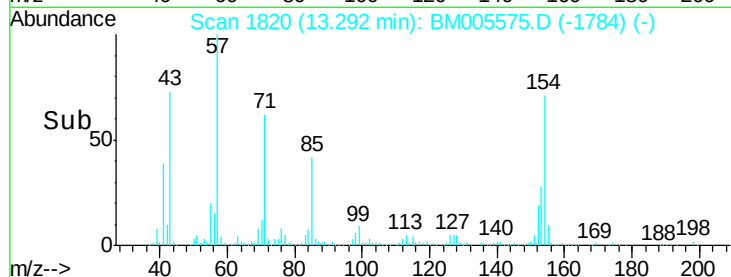
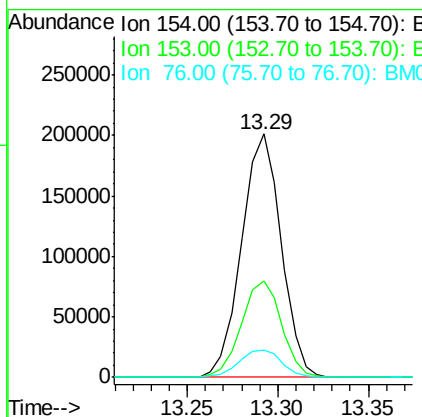
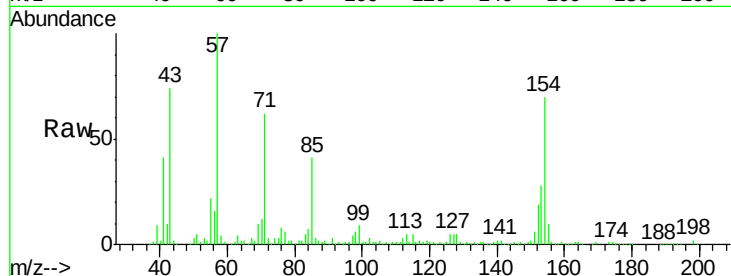
#40
 1,1'-Biphenyl
 Concen: 12.80 ng/ul
 RT: 13.29 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: BM005575.D
 Acq: 22 May 2016 06:03

Instrument :
 BNA_M
 ClientSampled :
 D9WT5

Tgt Ion:	154	Resp:	305671
Ion Ratio	Lower	Upper	
154	100		
153	39.7	31.7	47.5
76	11.3	10.1	15.1

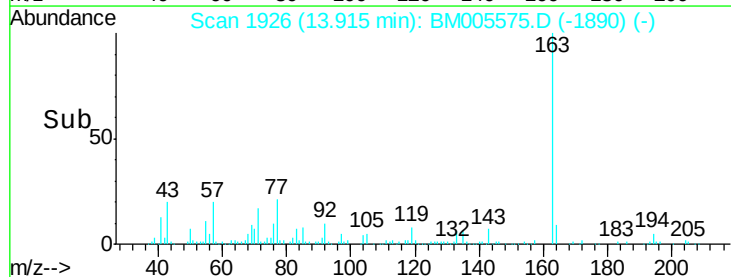
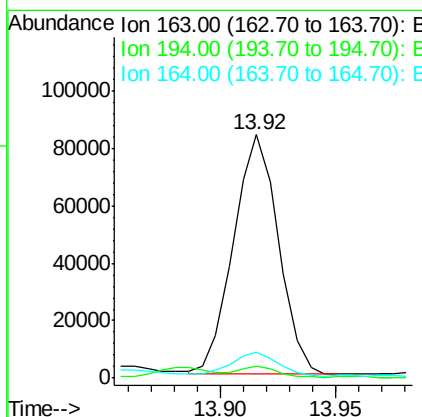
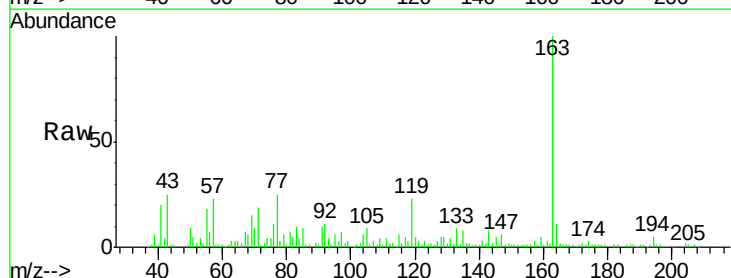
Manual Integrations
 APPROVED

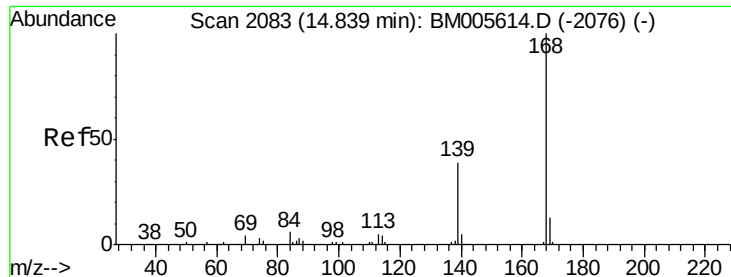
umangi
 5/23/2016 8:32:57 PM



#44
 Dimethylphthalate
 Concen: 4.92 ng/ul
 RT: 13.92 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: BM005575.D
 Acq: 22 May 2016 06:03

Tgt Ion:	163	Resp:	112809
Ion Ratio	Lower	Upper	
163	100		
194	4.9	3.4	5.0
164	10.7	8.0	12.0





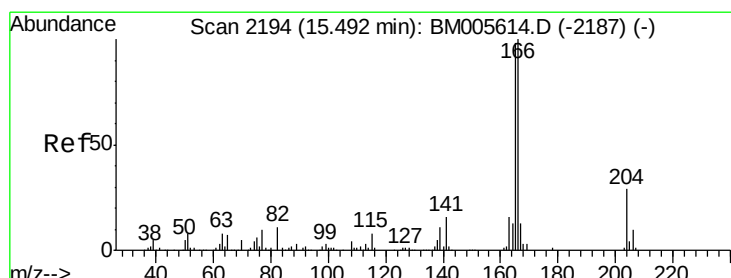
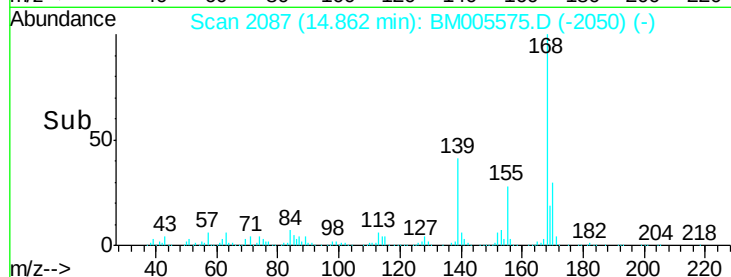
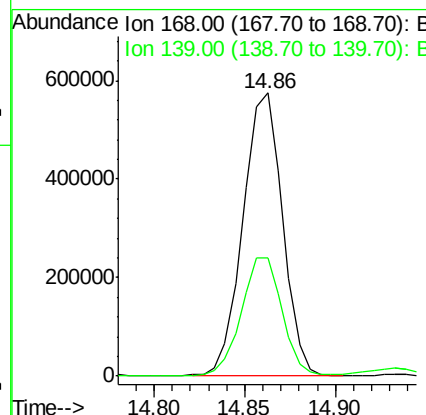
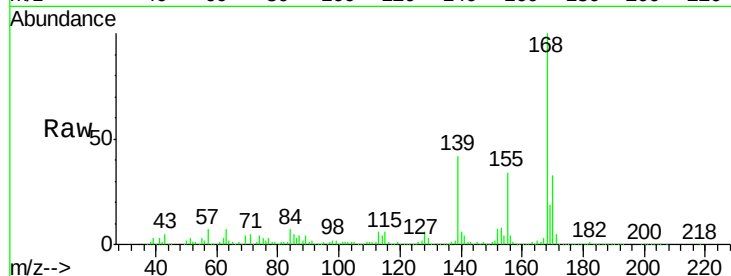
#53
Dibenzenofuran
Concen: 31.34 ng/ul
RT: 14.86 min Scan# 2087
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampleId :
D9WT5

Tgt Ion:168 Resp: 870215
Ion Ratio Lower Upper
168 100
139 41.8 30.6 46.0

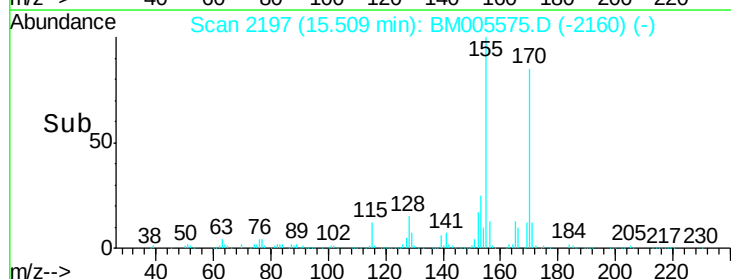
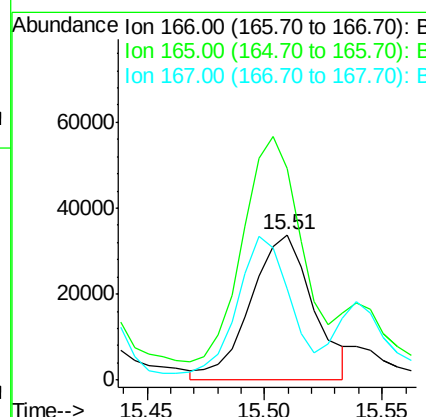
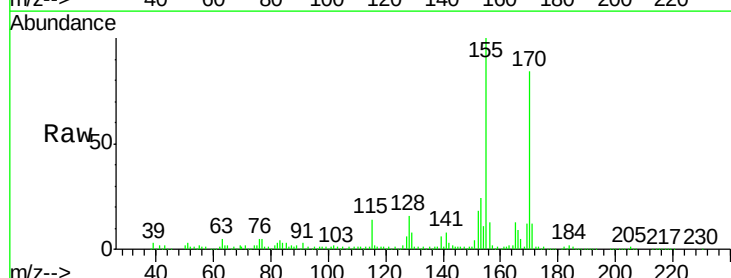
Manual Integrations
APPROVED

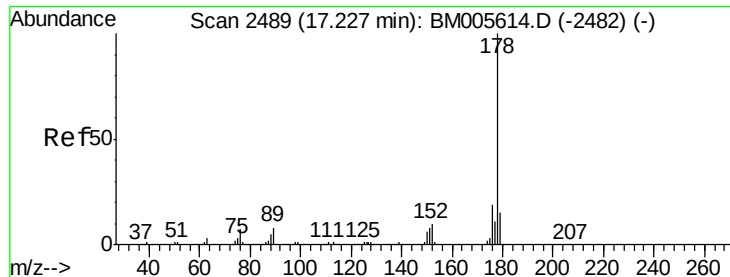
umangi
5/23/2016 8:32:57 PM



#58
Fluorene
Concen: 2.81 ng/ul m
RT: 15.51 min Scan# 2197
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion:166 Resp: 62377
Ion Ratio Lower Upper
166 100
165 145.7 78.0 117.0#
167 62.7 10.5 15.7#





#69

Phenanthrene

Concen: 58.69 ng/ul

RT: 17.25 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BM005575.D

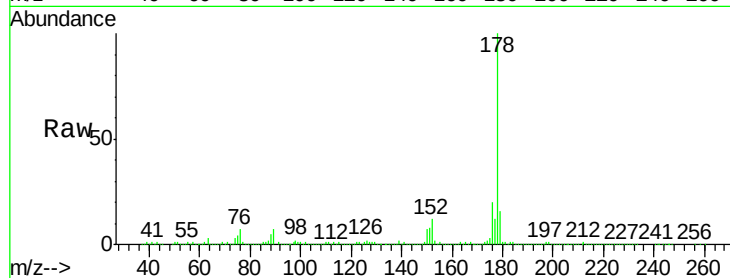
Acq: 22 May 2016 06:03

Instrument :

BNA_M

ClientSampleId :

D9WT5



Tgt Ion:178 Resp: 1923296

Ion Ratio Lower Upper

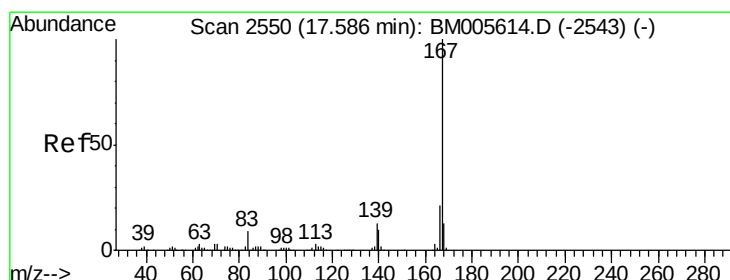
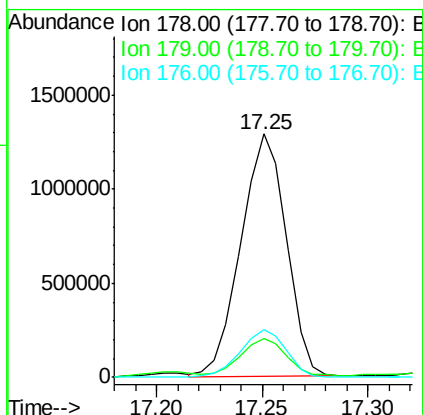
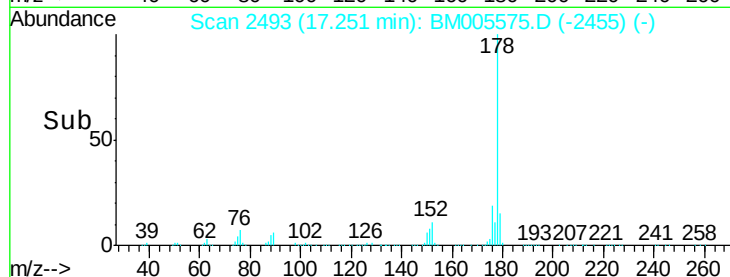
178 100

179 15.7 12.2 18.2

176 19.6 15.8 23.6

Manual Integrations
APPROVED

umangi
5/23/2016 8:32:57 PM



#72

Carbazole

Concen: 3.67 ng/ul

RT: 17.61 min Scan# 2554

Delta R.T. 0.02 min

Lab File: BM005575.D

Acq: 22 May 2016 06:03

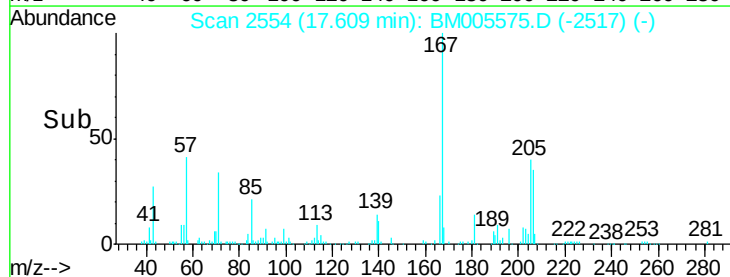
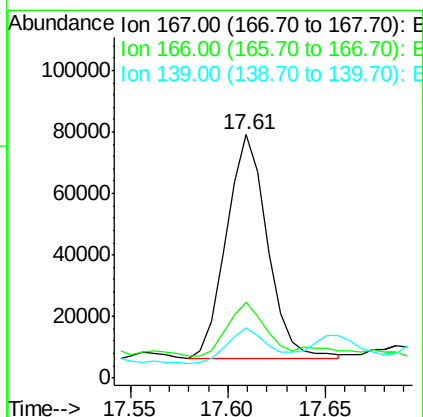
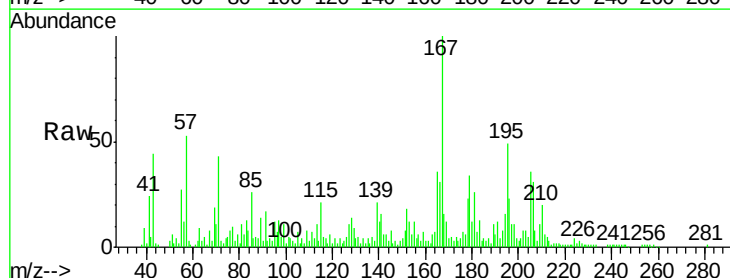
Tgt Ion:167 Resp: 106300

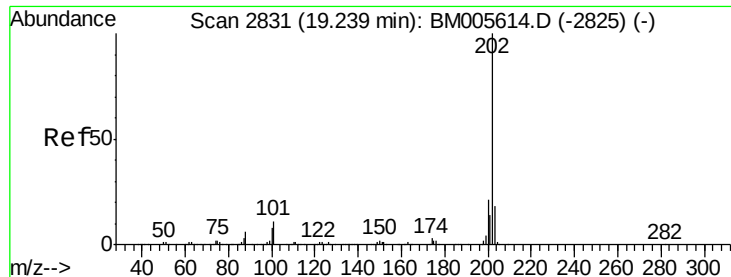
Ion Ratio Lower Upper

167 100

166 31.2 16.9 25.3#

139 20.6 10.6 16.0#





#74

Fluoranthene

Concen: 12.15 ng/ul

RT: 19.26 min Scan# 2835

Delta R.T. 0.02 min

Lab File: BM005575.D

Acq: 22 May 2016 06:03

Instrument :

BNA_M

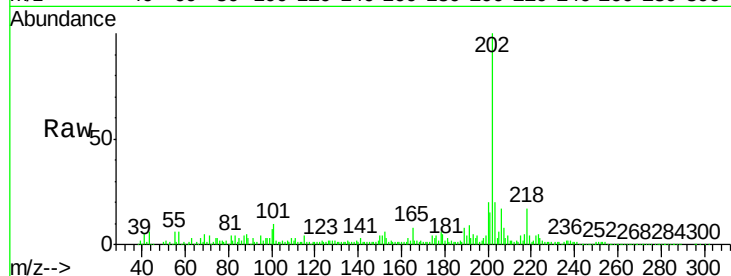
ClientSampleId :

D9WT5

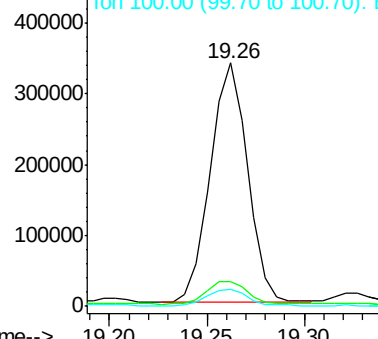
Tgt Ion:	202	Resp:	448327
Ion Ratio	Lower	Upper	
202	100		
101	10.3	7.9	11.9
100	7.0	5.6	8.4

Manual Integrations
APPROVED

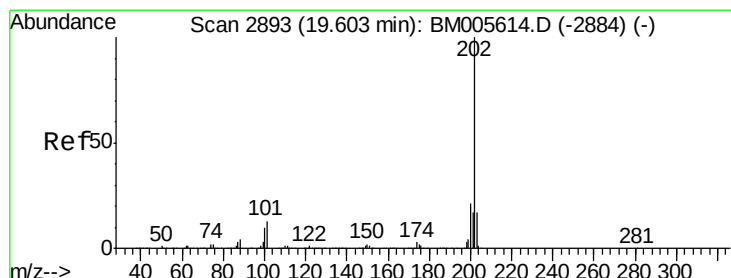
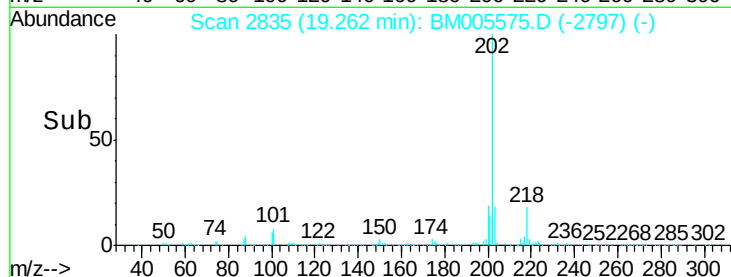
umangi
5/23/2016 8:32:57 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time-->



#77

Pyrene

Concen: 13.52 ng/ul

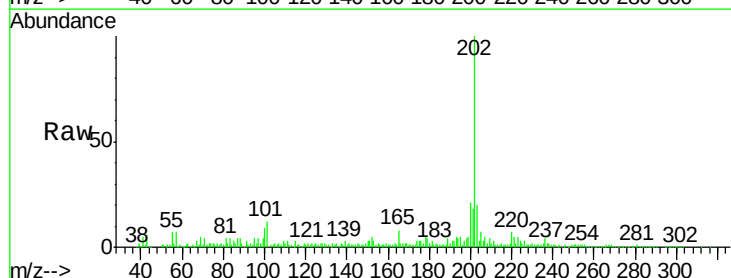
RT: 19.63 min Scan# 2897

Delta R.T. 0.02 min

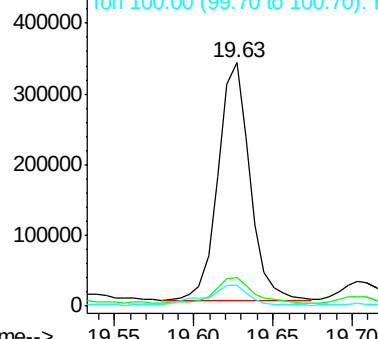
Lab File: BM005575.D

Acq: 22 May 2016 06:03

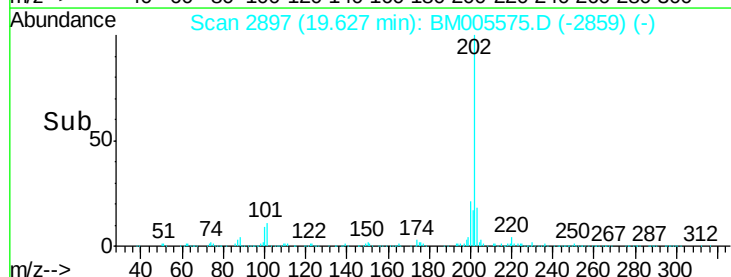
Tgt Ion:	202	Resp:	468073
Ion Ratio	Lower	Upper	
202	100		
101	11.7	9.6	14.4
100	8.8	7.8	11.6

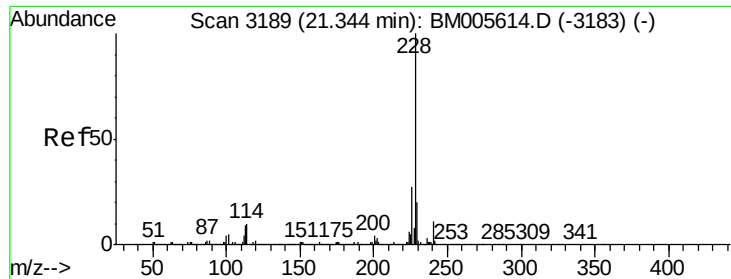


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time-->





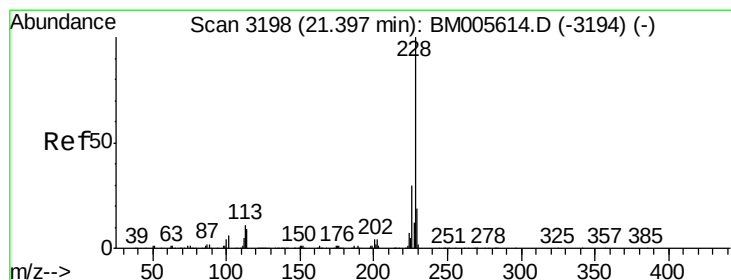
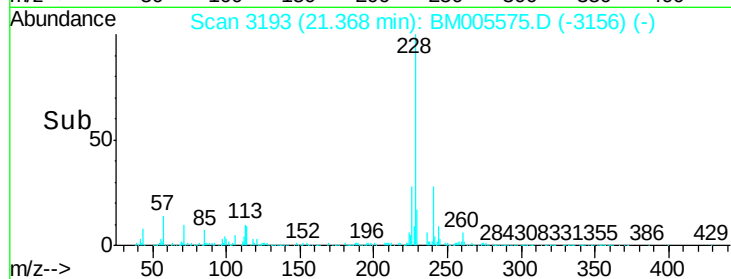
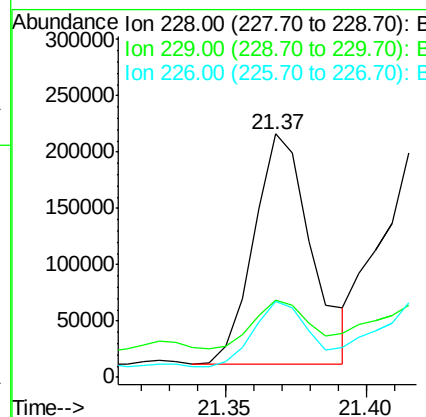
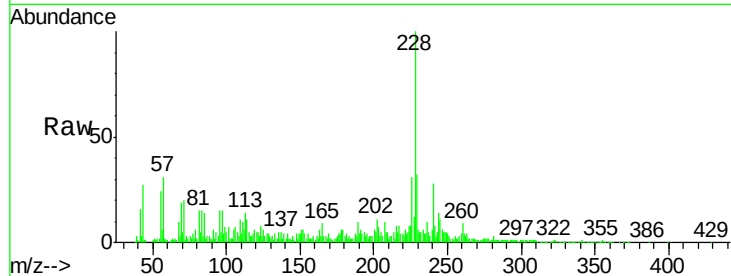
#80
Benzo(a)anthracene
Concen: 8.13 ng/ul
RT: 21.37 min Scan# 3193
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampled :
D9WT5

Tgt Ion	Ratio	Lower	Upper
228	100		
229	32.0	15.4	23.2#
226	31.4	21.0	31.4

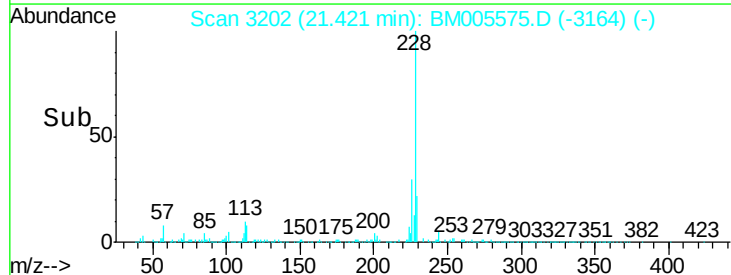
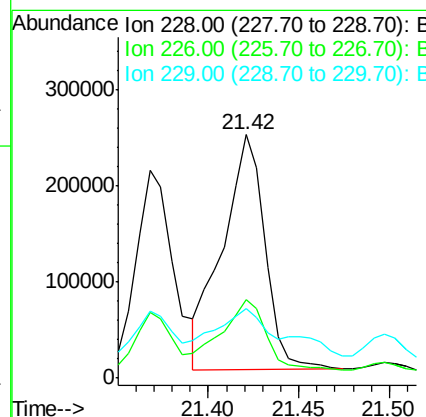
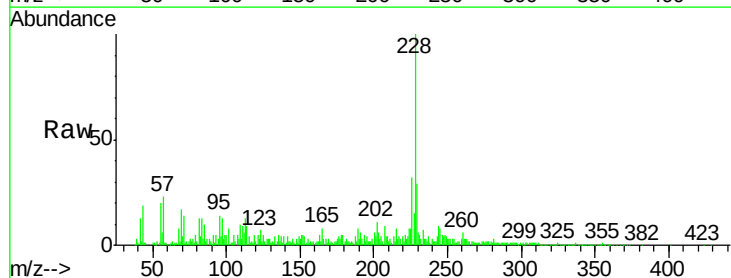
Manual Integrations
APPROVED

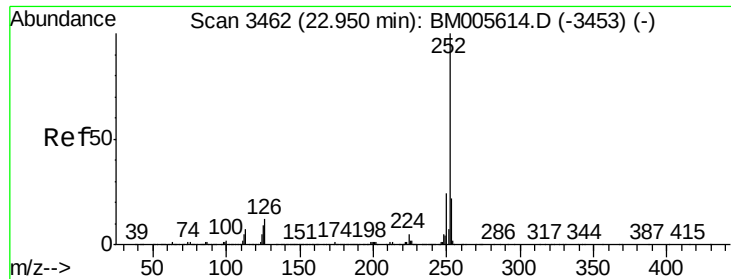
umangi
5/23/2016 8:32:57 PM



#82
Chrysene
Concen: 11.88 ng/ul
RT: 21.42 min Scan# 3202
Delta R.T. 0.02 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	23.7	35.5
229	28.6	15.5	23.3#





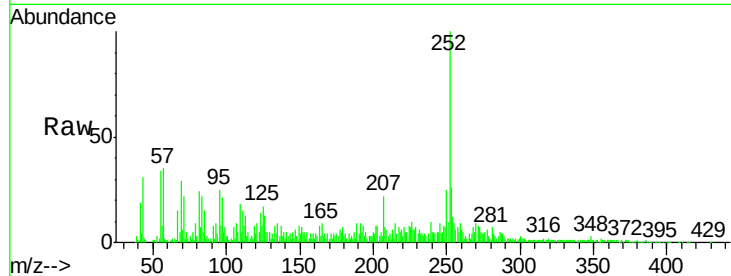
#85
Benzo(b)fluoranthene
Concen: 8.13 ng/ul
RT: 22.99 min Scan# 3469
Delta R.T. 0.03 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampleId :
D9WT5

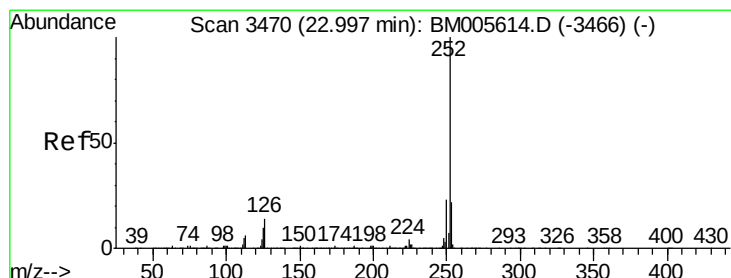
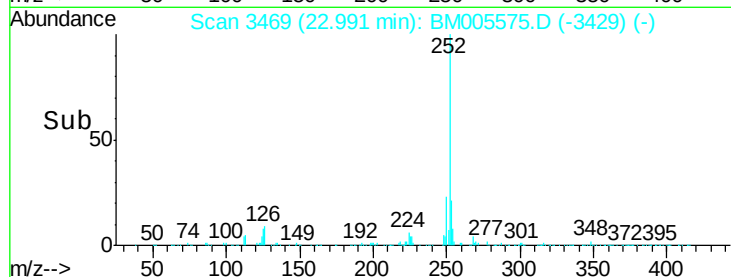
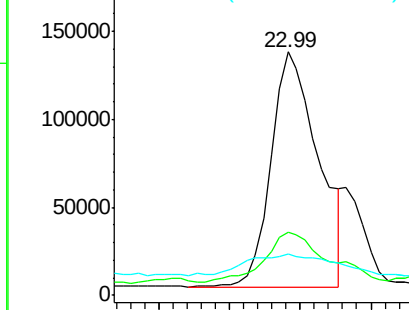
Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	25.7	17.3	25.9
125	16.9	7.0	10.4

Manual Integrations
APPROVED

umangi
5/23/2016 8:32:57 PM

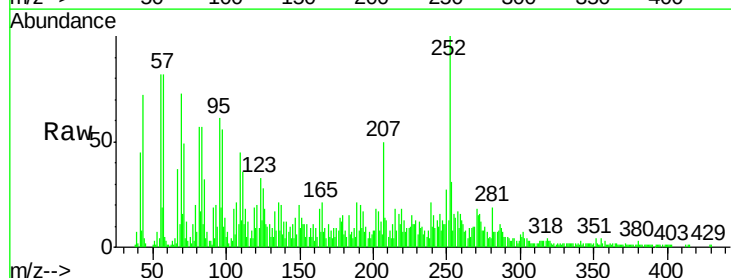


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

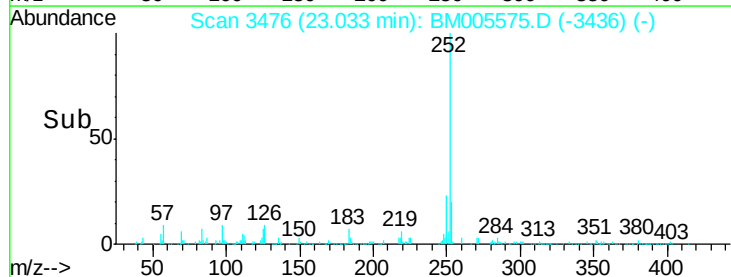
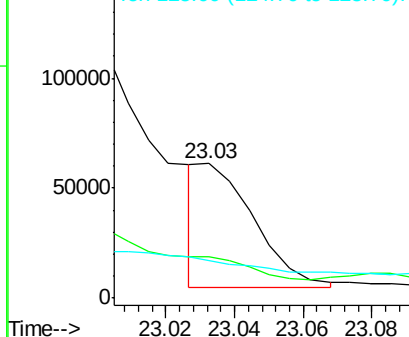


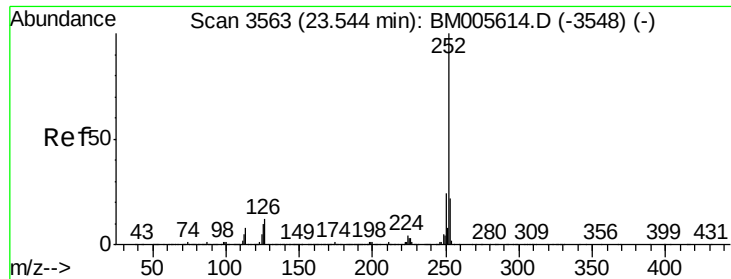
#86
Benzo(k)fluoranthene
Concen: 1.69 ng/ul m
RT: 23.03 min Scan# 3476
Delta R.T. 0.03 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	31.1	17.5	26.3
125	27.6	7.0	10.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





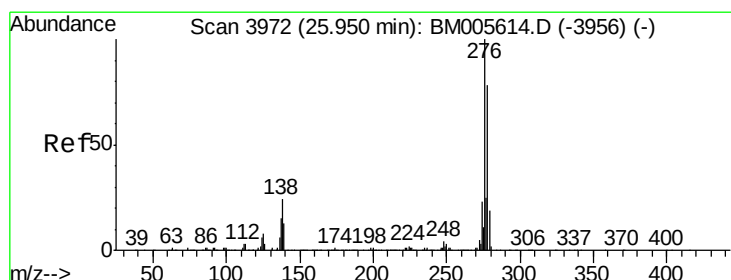
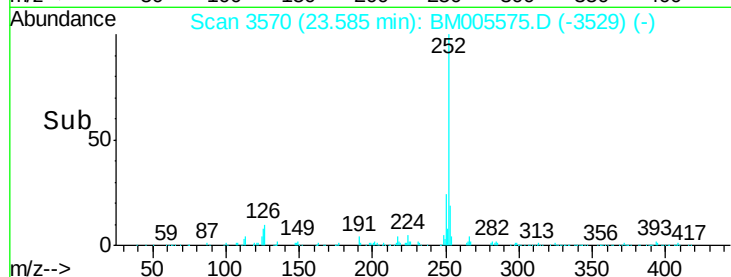
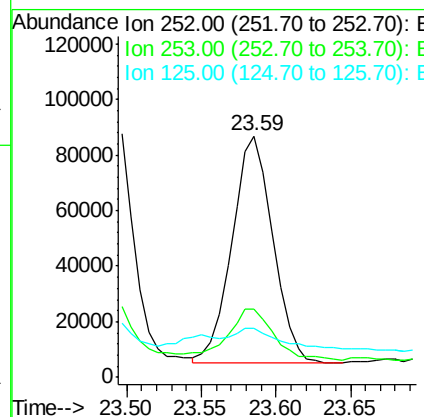
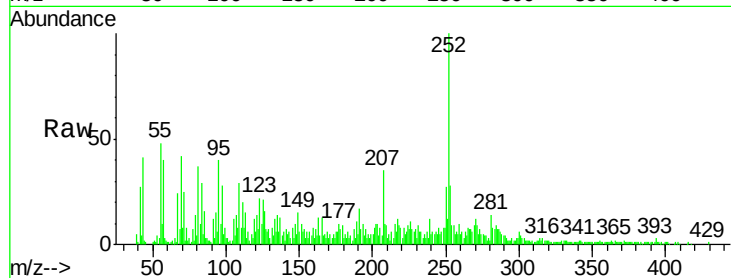
#88
Benzo(a)pyrene
Concen: 4.21 ng/ul
RT: 23.59 min Scan# 3570
Delta R.T. 0.04 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Instrument :
BNA_M
ClientSampleId :
D9WT5

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	28.5	17.6	26.4#
125	20.5	7.6	11.4#

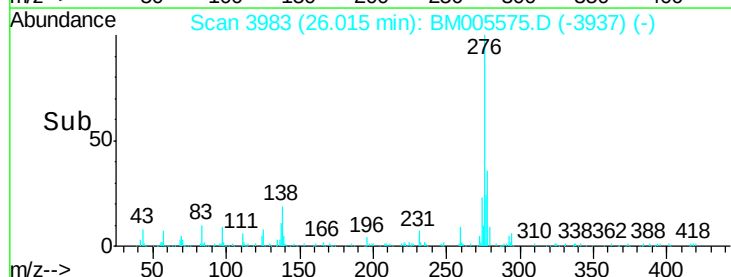
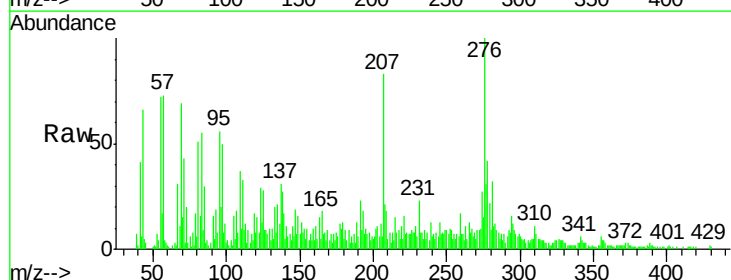
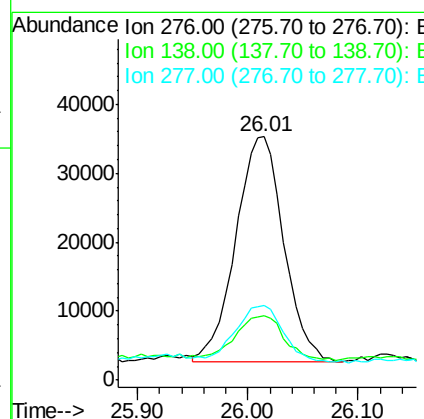
Manual Integrations
APPROVED

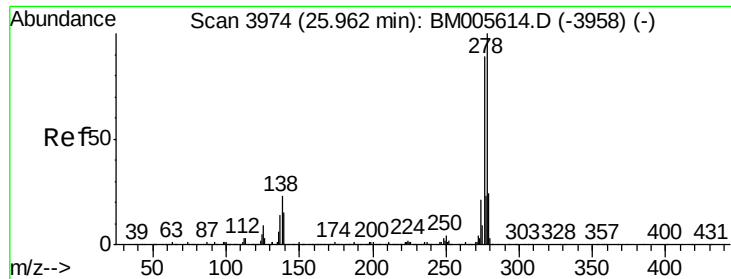
umangi
5/23/2016 8:32:57 PM



#89
Indeno(1,2,3-cd)pyrene
Concen: 2.26 ng/ul
RT: 26.01 min Scan# 3983
Delta R.T. 0.07 min
Lab File: BM005575.D
Acq: 22 May 2016 06:03

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	26.6	16.9	25.3#
277	30.9	20.2	30.4#





#90

Dibenzo(a,h)anthracene

Concen: 1.20 ng/ul

RT: 26.01 min Scan# 3983

Delta R.T. 0.06 min

Lab File: BM005575.D

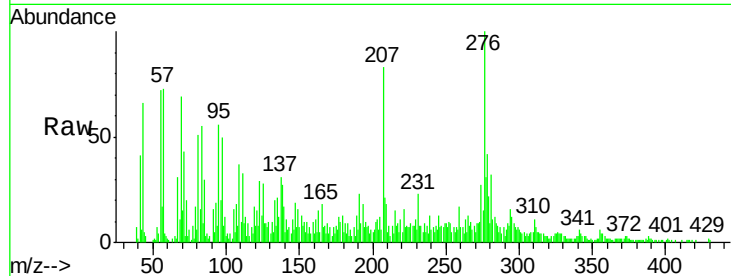
Acq: 22 May 2016 06:03

Instrument :

BNA_M

ClientSampleId :

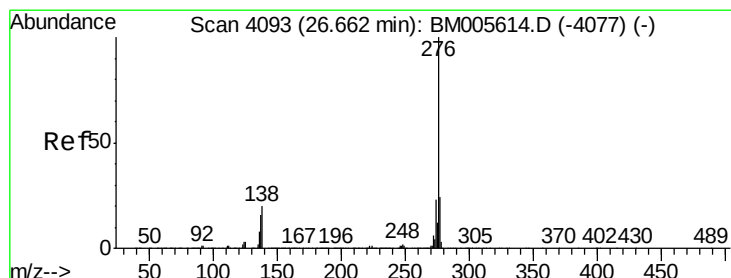
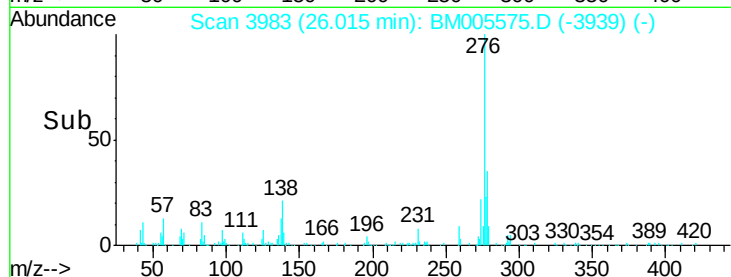
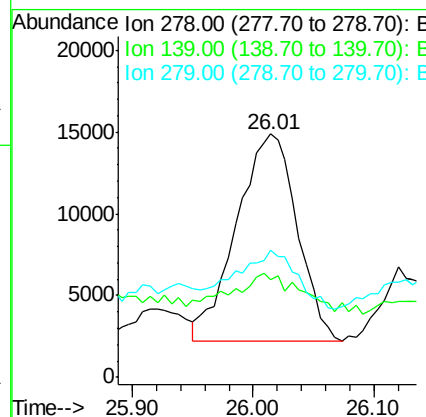
D9WT5



Tgt Ion	Ratio	Lower	Upper
278	100		
139	39.9	11.8	17.6#
279	52.0	19.4	29.2#

Manual Integrations
APPROVED

umangi
5/23/2016 8:32:57 PM



#91

Benzo(g,h,i)perylene

Concen: 3.65 ng/ul

RT: 26.73 min Scan# 4104

Delta R.T. 0.07 min

Lab File: BM005575.D

Acq: 22 May 2016 06:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.4	15.0	22.6#
277	28.0	18.6	28.0#

