

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
 Data File : BM005989.D
 Acq On : 25 Jun 2016 05:13
 Operator : UM/SJ
 Sample : H3612-14 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9Z32

Manual Integrations

umangi
 6/27/2016 4:40:37 PM

Quant Time: Jun 27 03:15:31 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jun 24 23:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	137417	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	624695	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.31	164	331049	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.06	188	623525	20.00	ng/ul	0.00
75) Chrysene-d12	21.25	240	546459	20.00	ng/ul	0.00
83) Perylene-d12	23.47	264	594702	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.18	96	2821	0.82	ng/uL	0.00
5) Phenol-d5	6.83	99	128843	10.89	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	79585	10.99	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	98639	10.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.36	113	98974	10.68	ng/ul	0.00
19) Nitrobenzene-d5	8.82	128	46787	10.18	ng/ul	0.00
22) 2-Nitrophenol-d4	9.53	143	49764	10.35	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.06	165	94439	10.25	ng/ul	0.00
29) 4-Chloroaniline-d4	10.59	131	58620	5.81	ng/ul	0.00
43) Dimethylphthalate-d6	13.72	166	274523	10.44	ng/ul	0.00
46) Acenaphthylene-d8	14.00	160	348542	10.61	ng/ul	0.00
51) 4-Nitrophenol-d4	14.51	143	29366	5.71	ng/ul	0.00
57) Fluorene-d10	15.30	176	236816	10.42	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.43	200	19851	6.39	ng/ul	0.00
70) Anthracene-d10	17.16	188	327214	11.52	ng/ul	0.00
76) Pyrene-d10	19.46	212	314504	12.40	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.33	264	297230	11.09	ng/ul	0.01

Target Compounds

					Qvalue
14) Acetophenone	8.48	105	22375	1.57 ng/ul	98
28) Naphthalene	10.49	128	323426	10.38 ng/ul	98
34) 2-Methylnaphthalene	12.11	142	105530	4.62 ng/ul	98
40) 1,1'-Biphenyl	13.14	154	44158	1.62 ng/ul	97
44) Dimethylphthalate	13.77	163	192044	7.23 ng/ul	99
47) Acenaphthylene	14.03	152	35309	1.01 ng/ul#	89
49) Acenaphthene	14.37	153	404323	18.32 ng/ul	99
53) Dibenzofuran	14.71	168	387094	12.15 ng/ul	99
58) Fluorene	15.36	166	427424	17.21 ng/ul	97
69) Phenanthrene	17.10	178	4780037	141.22 ng/ul	99
71) Anthracene	17.19	178	808884	23.39 ng/ul	99
72) Carbazole	17.46	167	868534	29.21 ng/ul	99
74) Fluoranthene	19.13	202	5451149	146.84 ng/ul	97
77) Pyrene	19.49	202	4206986	125.89 ng/ul	99
78) Butylbenzylphthalate	20.40	149	22087	1.58 ng/ul	88
80) Benzo(a)anthracene	21.23	228	2134930	65.84 ng/ul	99
81) Bis(2-ethylhexyl)phthalate	21.17	149	346113	17.68 ng/ul	99
82) Chrysene	21.29	228	2208506	73.81 ng/ul	98
85) Benzo(b)fluoranthene	22.81	252	2932458	81.18 ng/ul	99
86) Benzo(k)fluoranthene	22.85	252	927127m	28.19 ng/ul	
88) Benzo(a)pyrene	23.37	252	1843086	54.93 ng/ul	97
89) Indeno(1,2,3-cd)pyrene	25.69	276	1411457	37.71 ng/ul	96
90) Dibenzo(a,h)anthracene	25.69	278	367956m	11.91 ng/ul	

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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9Z32

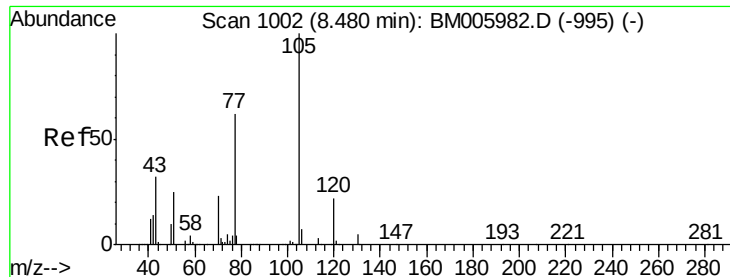
Manual Integrations

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Quant Time: Jun 27 03:15:31 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jun 24 23:55:23 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(g,h,i)perylene	26.37	276	1295410	40.13	ng/ul	97

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



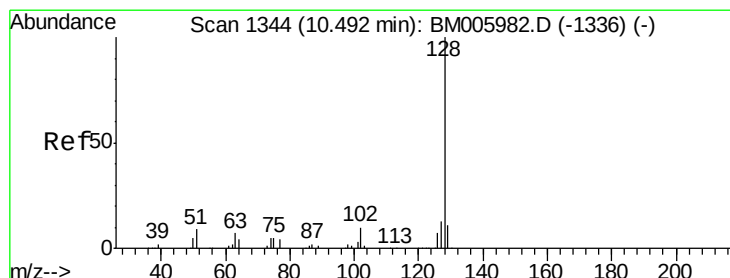
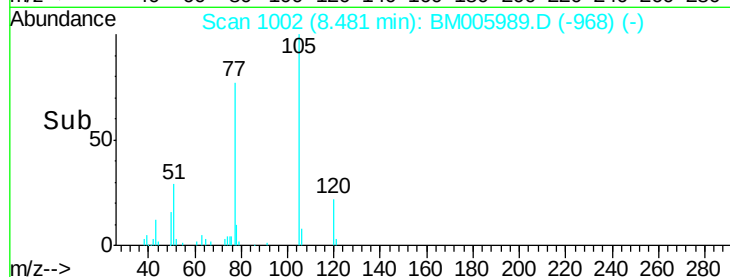
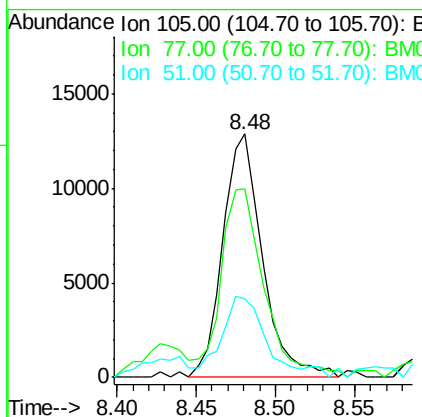
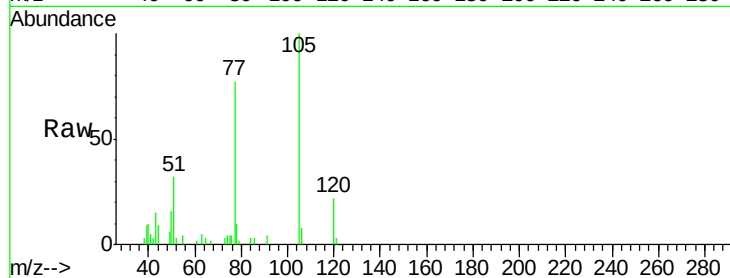
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Acetophenone
Concen: 1.57 ng/ul
RT: 8.48 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Instrument :
BNA_M
ClientSampleId :
D9Z32

Tgt Ion	Ratio	Lower	Upper
105	100		
77	77.4	63.4	95.2
51	32.3	25.4	38.2

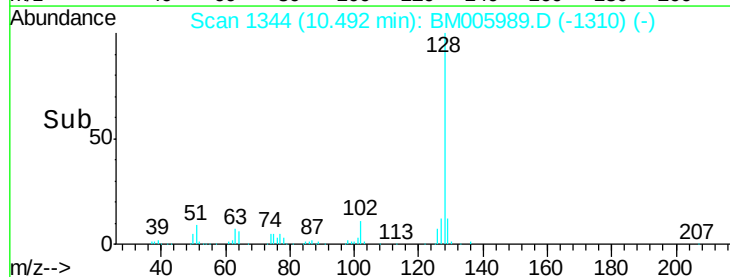
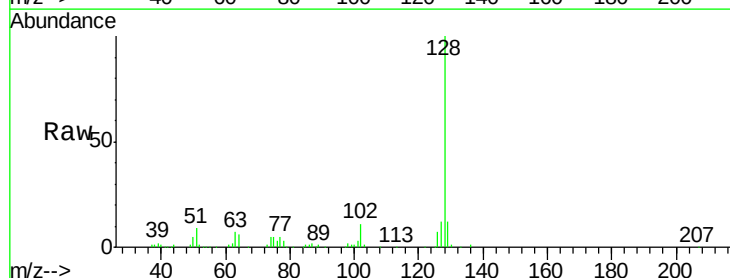
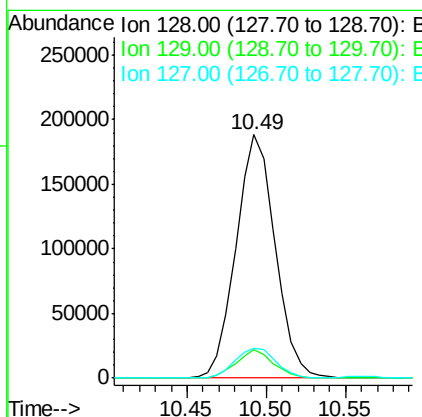
Manual Integrations

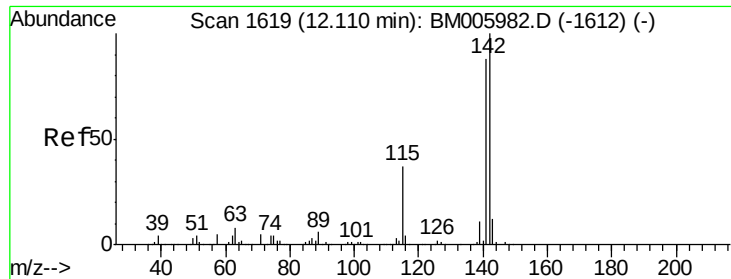
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#28
Naphthalene
Concen: 10.38 ng/ul
RT: 10.49 min Scan# 1344
Delta R.T. -0.00 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.6	12.8
127	12.2	10.4	15.6





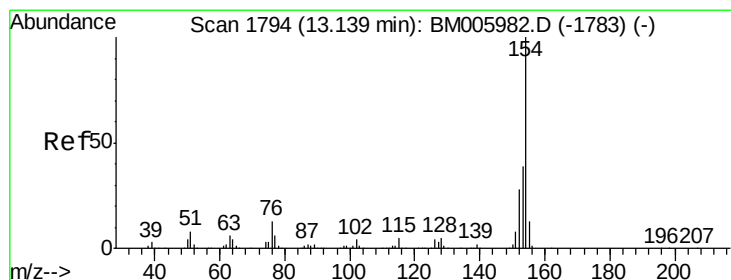
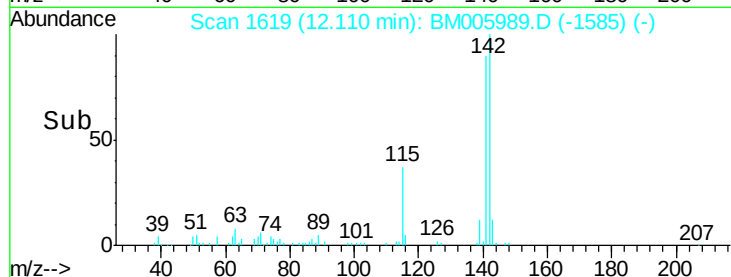
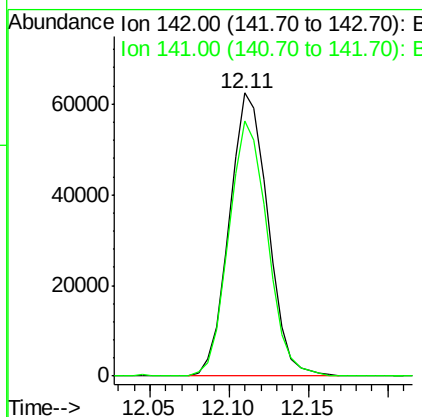
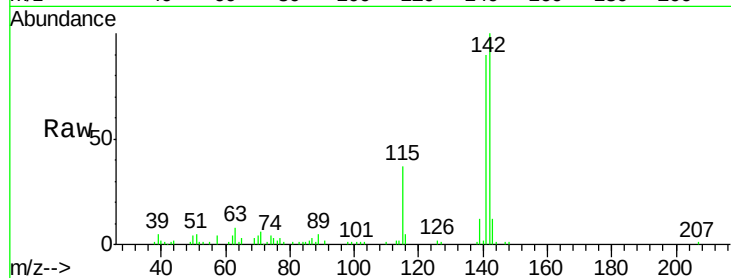
#34
 2-Methylnaphthalene
 Concen: 4.62 ng/ul
 RT: 12.11 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BM005989.D
 Acq: 25 Jun 2016 05:13

Instrument :
 BNA_M
 ClientSampleId :
 D9Z32

Tgt Ion:142 Resp: 105530
 Ion Ratio Lower Upper
 142 100
 141 90.0 70.4 105.6

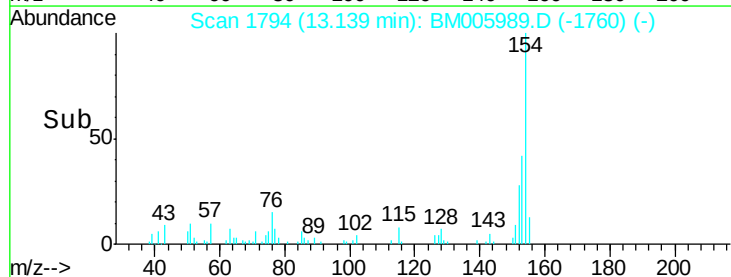
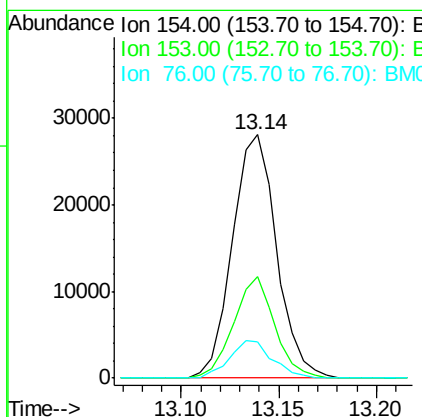
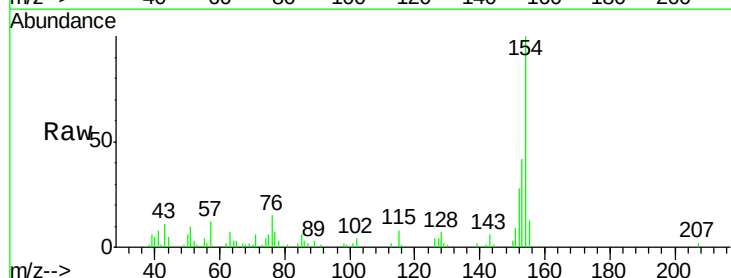
Manual Integrations

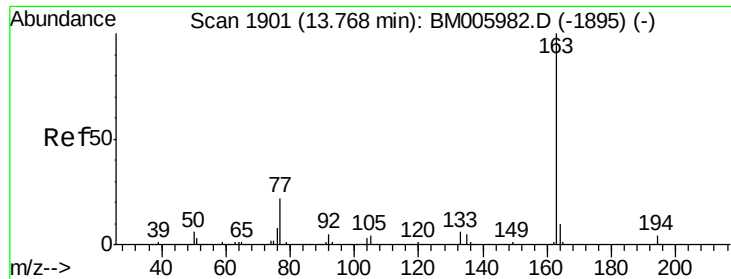
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#40
 1,1'-Biphenyl
 Concen: 1.62 ng/ul
 RT: 13.14 min Scan# 1794
 Delta R.T. -0.00 min
 Lab File: BM005989.D
 Acq: 25 Jun 2016 05:13

Tgt Ion:154 Resp: 44158
 Ion Ratio Lower Upper
 154 100
 153 41.7 32.0 48.0
 76 15.0 10.4 15.6





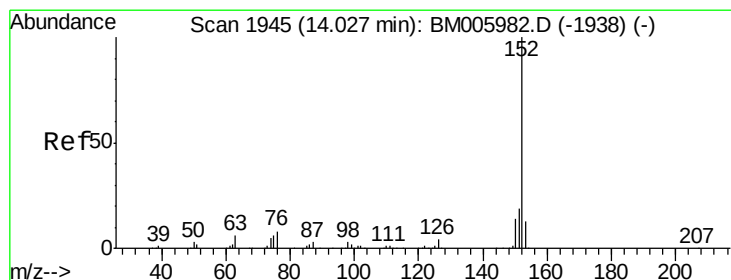
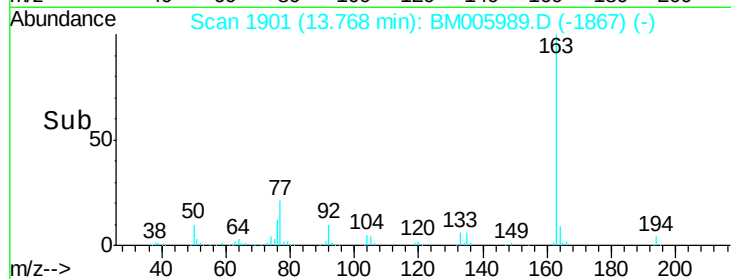
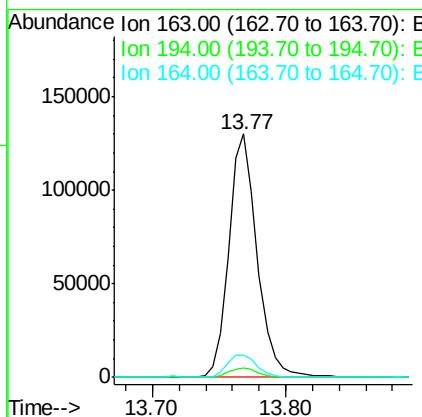
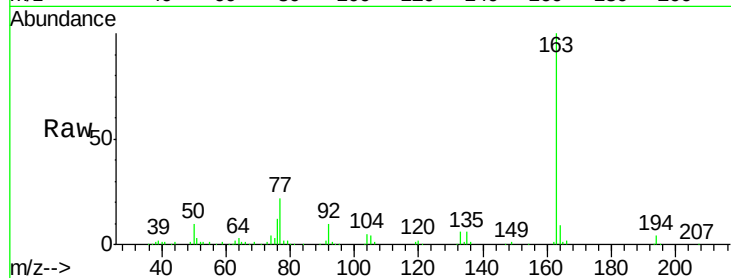
#44
Dimethylphthalate
Concen: 7.23 ng/ul
RT: 13.77 min Scan# 1901
Delta R.T. -0.00 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Instrument :
BNA_M
ClientSampleId :
D9Z32

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	9.3	7.9	11.9

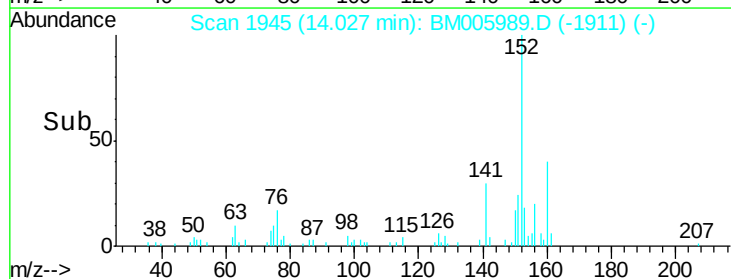
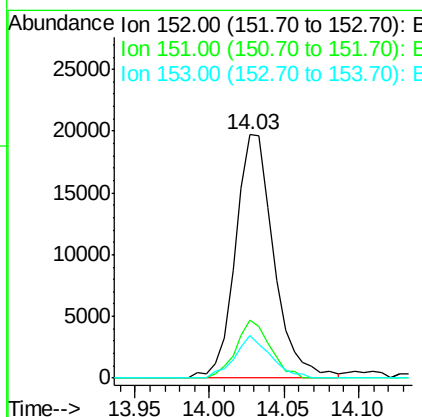
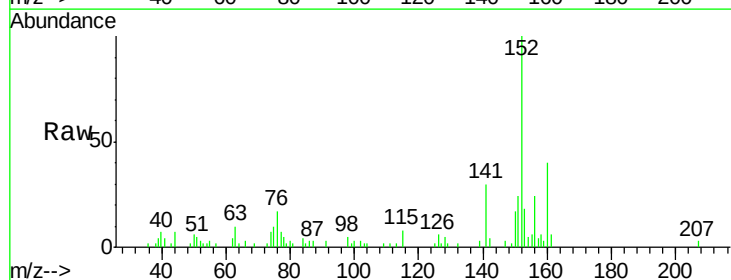
Manual Integrations

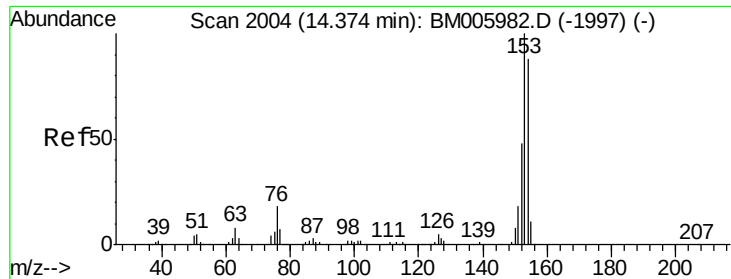
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#47
Acenaphthylene
Concen: 1.01 ng/ul
RT: 14.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Tgt Ion	Ratio	Lower	Upper
152	100		
151	23.9	15.4	23.2#
153	17.5	10.0	15.0#





#49

Acenaphthene

Concen: 18.32 ng/ul

RT: 14.37 min Scan# 2004

Delta R.T. -0.00 min

Lab File: BM005989.D

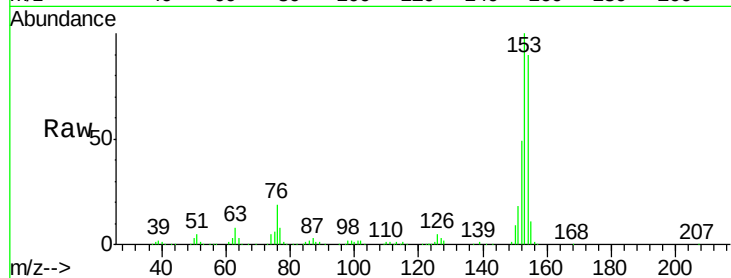
Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

D9Z32



Tgt Ion:153 Resp: 404323

Ion Ratio Lower Upper

153 100

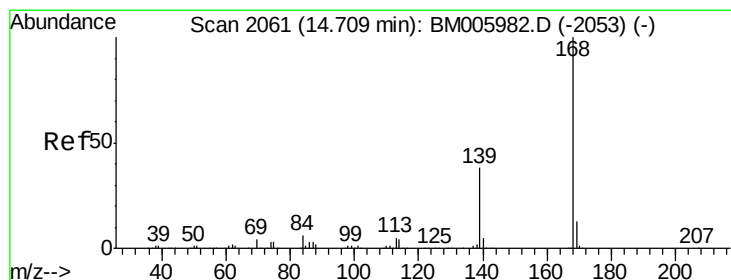
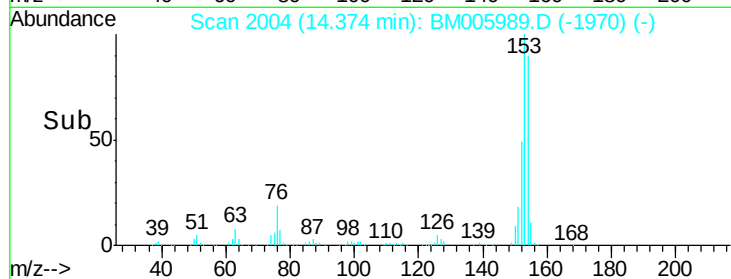
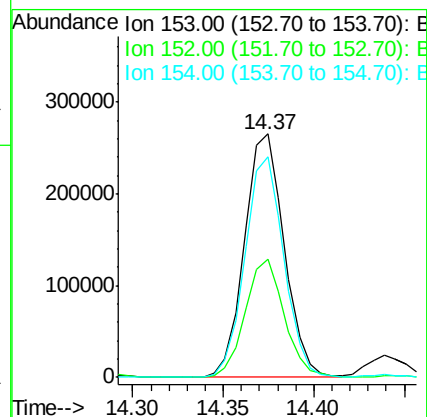
152 48.6 38.4 57.6

154 90.5 71.9 107.9

Manual Integrations

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#53

Dibenzofuran

Concen: 12.15 ng/ul

RT: 14.71 min Scan# 2061

Delta R.T. -0.00 min

Lab File: BM005989.D

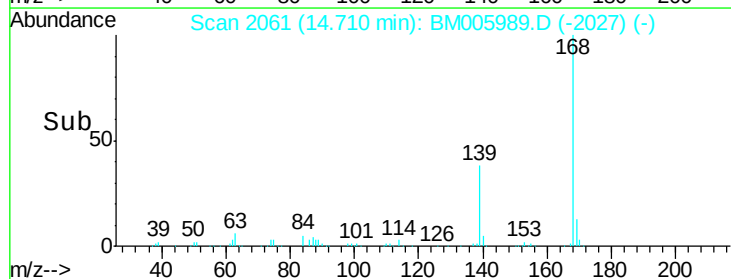
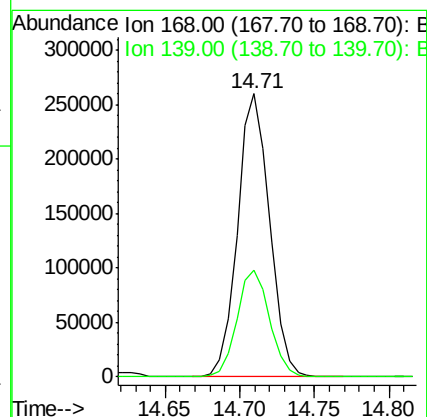
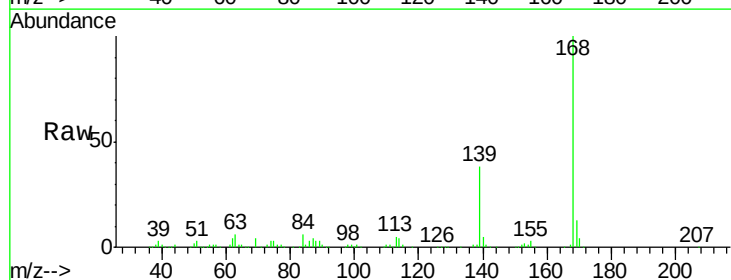
Acq: 25 Jun 2016 05:13

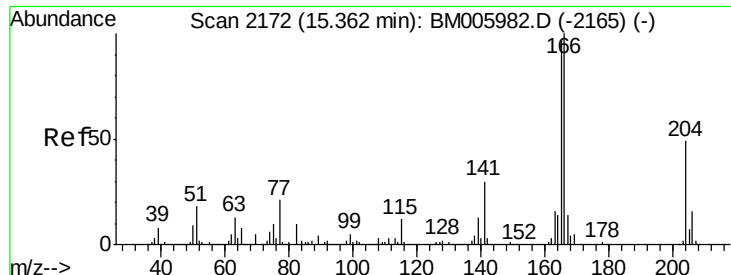
Tgt Ion:168 Resp: 387094

Ion Ratio Lower Upper

168 100

139 37.8 30.8 46.2





#58

Fluorene

Concen: 17.21 ng/ul

RT: 15.36 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BM005989.D

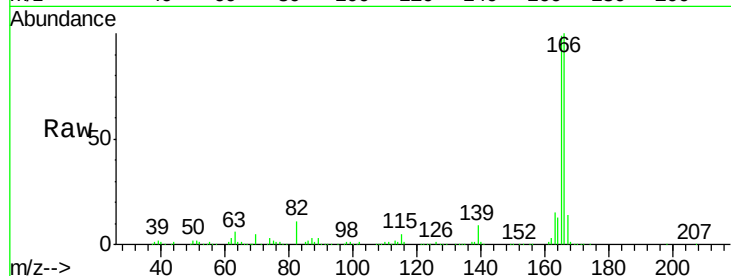
Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

D9Z32



Tgt Ion:166 Resp: 427424

Ion Ratio Lower Upper

166 100

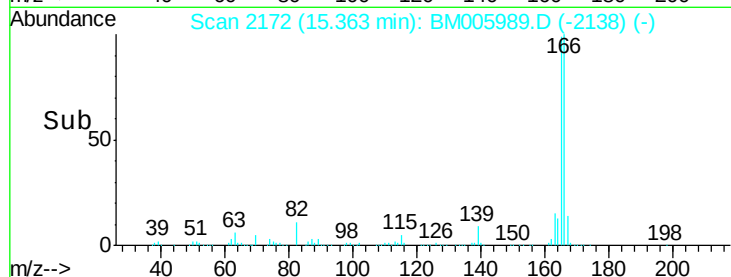
165 99.5 77.3 115.9

167 14.0 11.0 16.6

Manual Integrations

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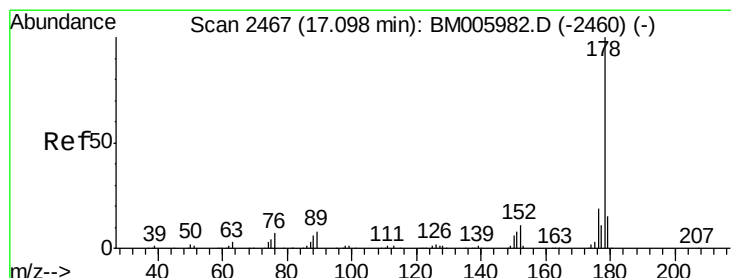
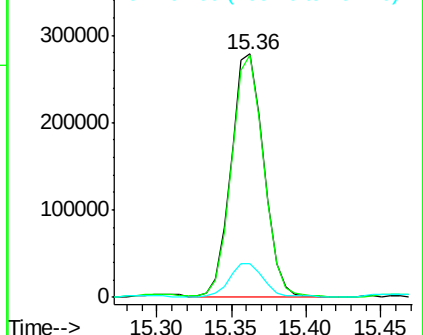
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 141.22 ng/ul

RT: 17.10 min Scan# 2468

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

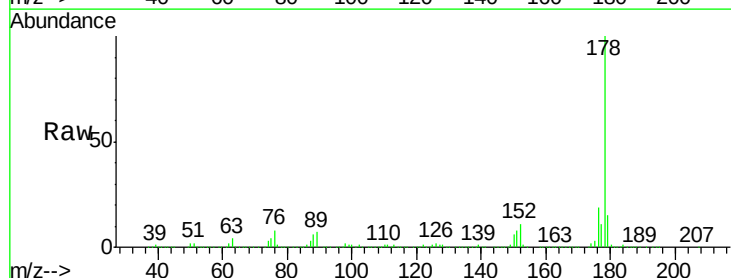
Tgt Ion:178 Resp: 4780037

Ion Ratio Lower Upper

178 100

179 15.4 12.0 18.0

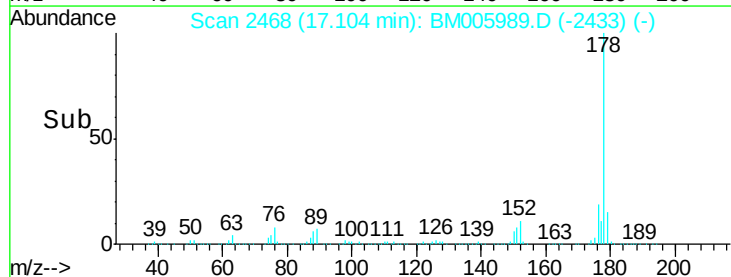
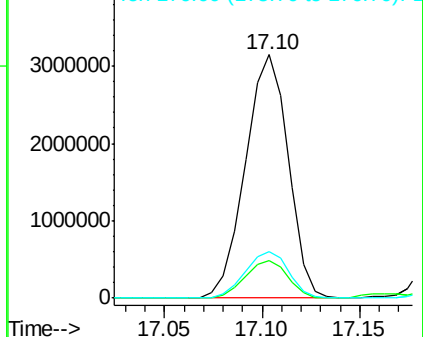
176 19.4 15.3 22.9

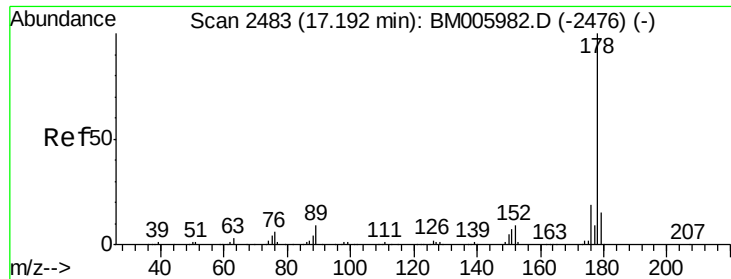


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





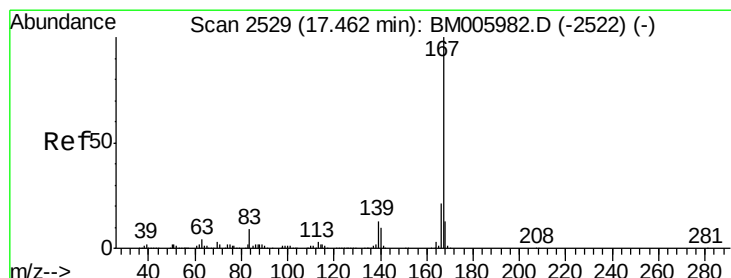
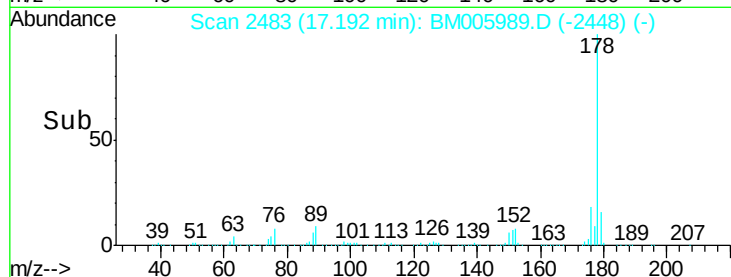
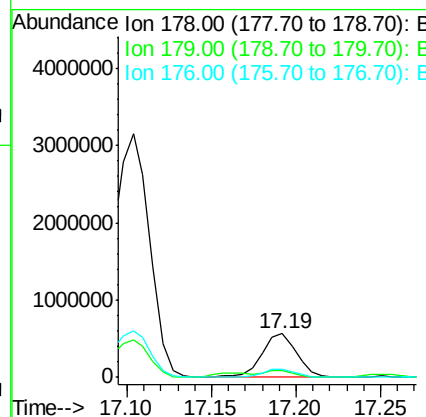
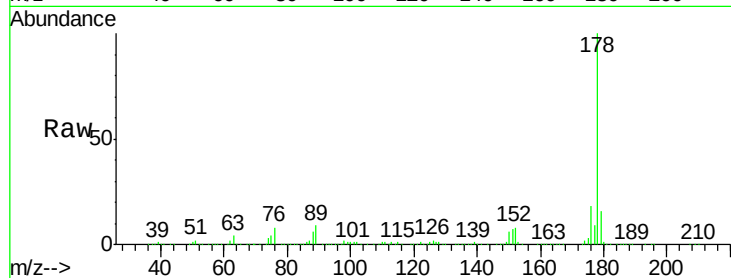
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 Anthracene
 Concen: 23.39 ng/ul
 RT: 17.19 min Scan# 2483
 Delta R.T. 0.01 min
 Lab File: BM005989.D
 Acq: 25 Jun 2016 05:13

Instrument :
 BNA_M
 ClientSampleId :
 D9Z32

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.2
176	18.2	14.7	22.1

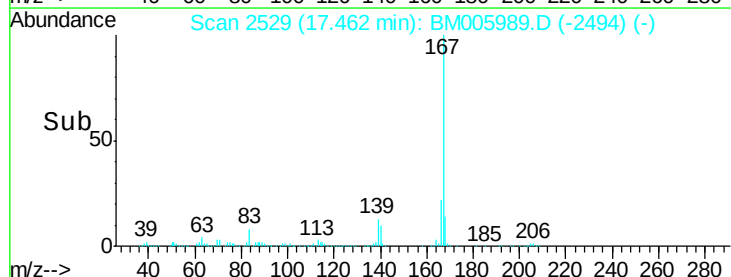
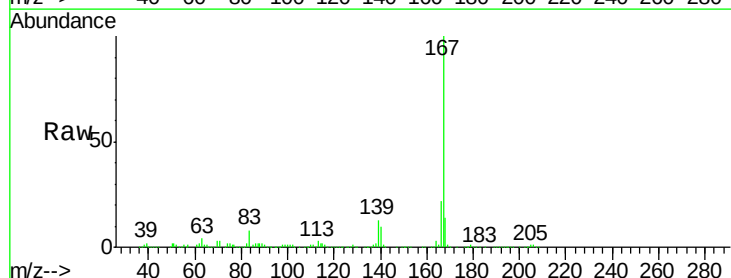
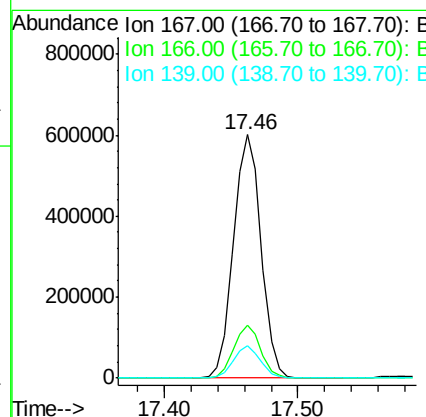
Manual Integrations

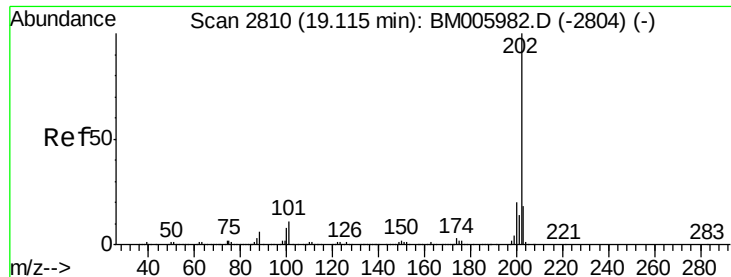
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#72
 Carbazole
 Concen: 29.21 ng/ul
 RT: 17.46 min Scan# 2529
 Delta R.T. 0.01 min
 Lab File: BM005989.D
 Acq: 25 Jun 2016 05:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.3	25.9
139	13.2	10.8	16.2





#74

Fluoranthene

Concen: 146.84 ng/ul

RT: 19.13 min Scan# 2812

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

D9Z32

Tgt Ion:202 Resp: 5451149

Ion Ratio Lower Upper

202 100

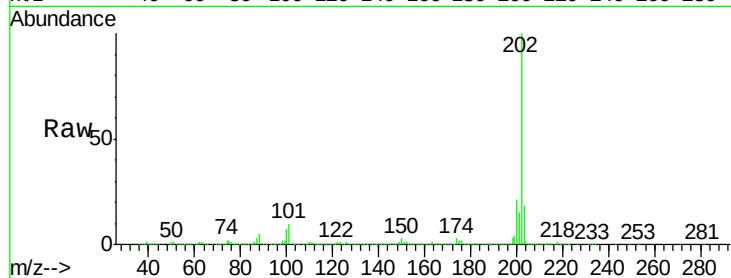
101 10.0 9.2 13.8

100 7.3 6.6 9.8

Manual Integrations

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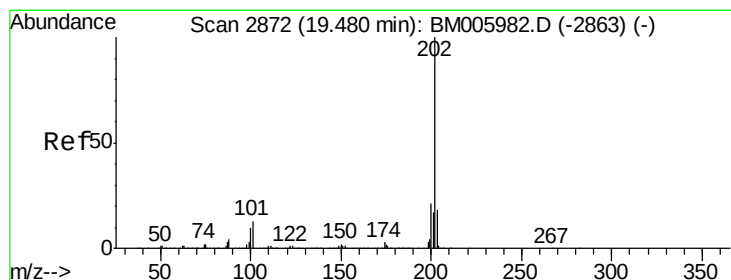
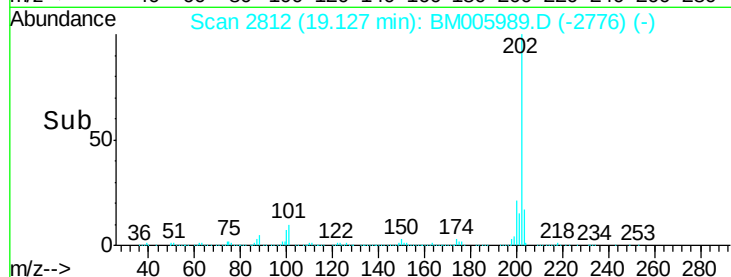
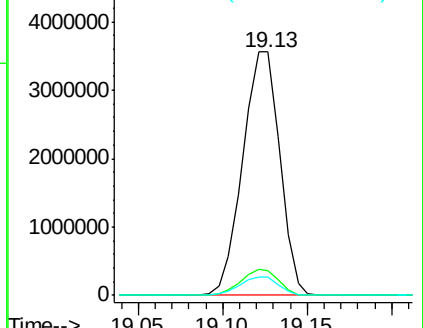
6/27/2016 4:40:37 PM



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



#77

Pyrene

Concen: 125.89 ng/ul

RT: 19.49 min Scan# 2873

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Tgt Ion:202 Resp: 4206986

Ion Ratio Lower Upper

202 100

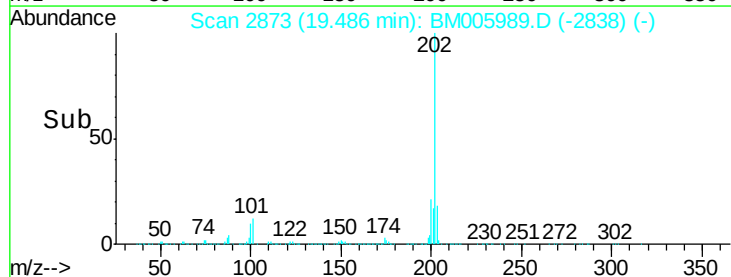
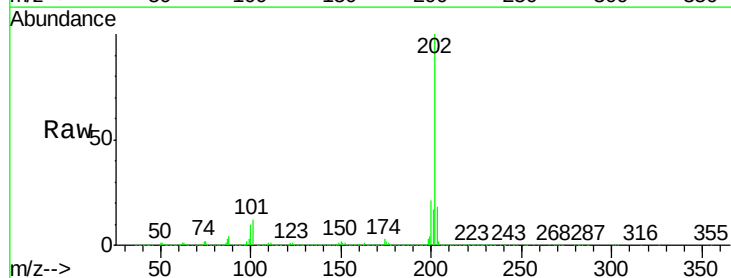
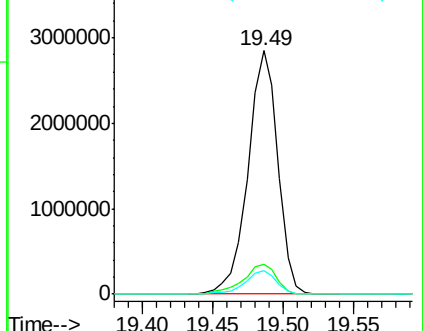
101 12.2 10.2 15.2

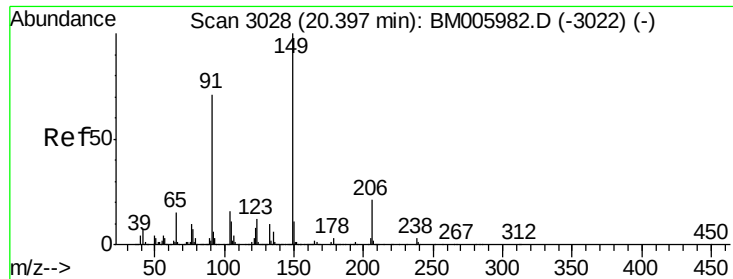
100 9.7 8.2 12.4

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





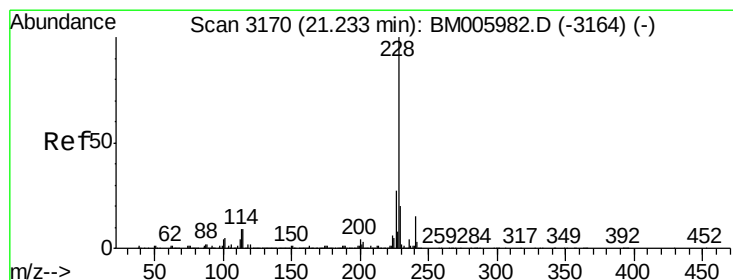
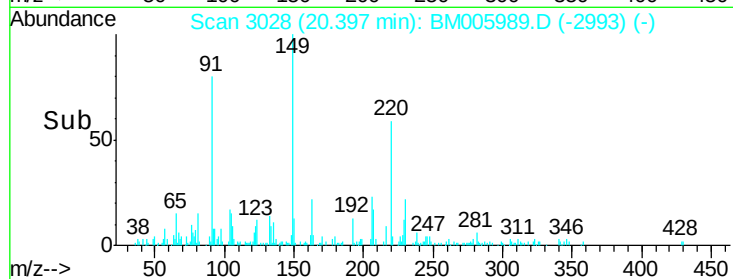
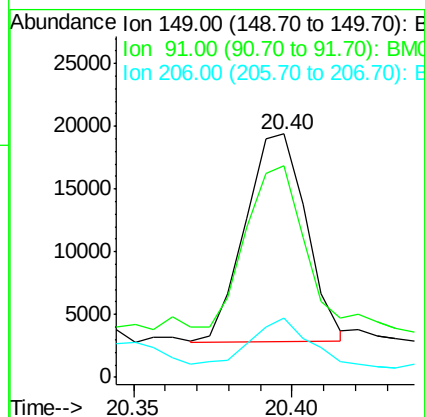
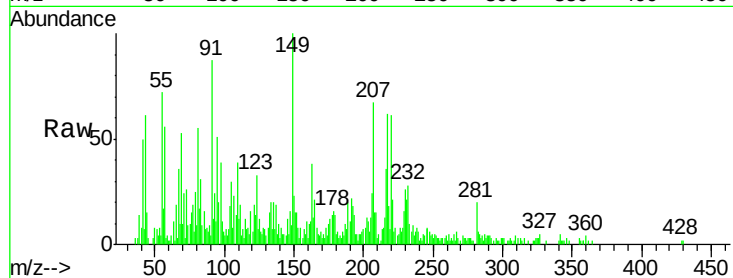
#78
Butylbenzylphthalate
Concen: 1.58 ng/ul
RT: 20.40 min Scan# 3028
Delta R.T. 0.01 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Instrument :
BNA_M
ClientSampleId :
D9Z32

Tgt Ion	Ratio	Lower	Upper
149	100		
91	86.8	60.2	90.4
206	24.4	17.0	25.6

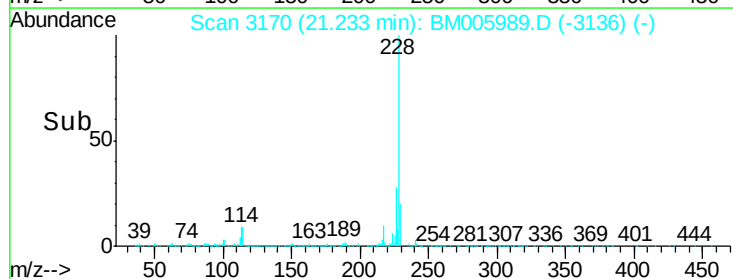
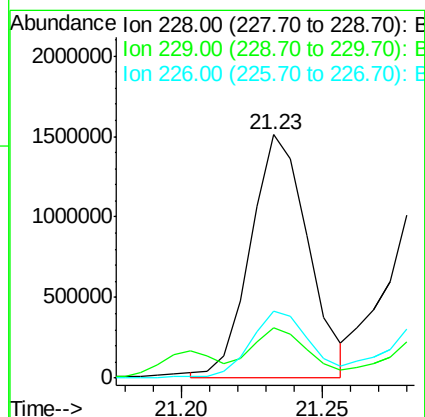
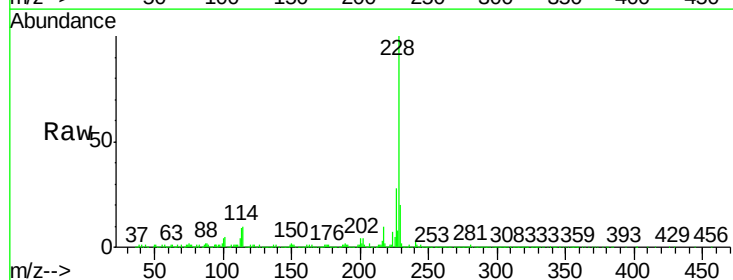
Manual Integrations

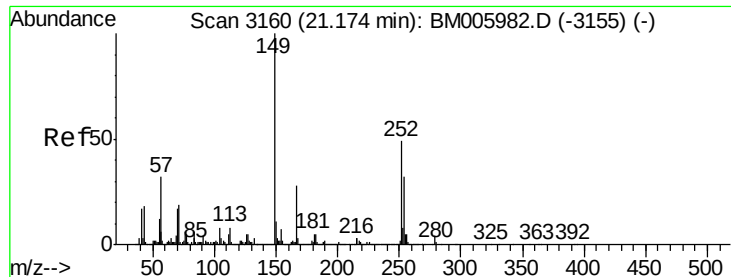
umangi
6/27/2016 4:40:37 PM



#80
Benzo(a)anthracene
Concen: 65.84 ng/ul
RT: 21.23 min Scan# 3170
Delta R.T. -0.00 min
Lab File: BM005989.D
Acq: 25 Jun 2016 05:13

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.5	15.8	23.8
226	27.7	21.6	32.4





#81

Bis(2-ethylhexyl)phthalate

Concen: 17.68 ng/ul

RT: 21.17 min Scan# 3160

Delta R.T. -0.00 min

Lab File: BM005989.D

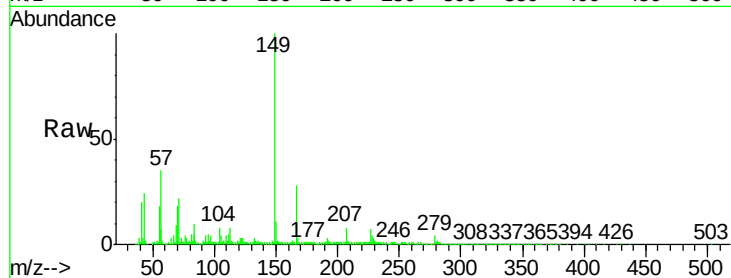
Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

D9Z32



Tgt Ion:149 Resp: 346113

Ion Ratio Lower Upper

149 100

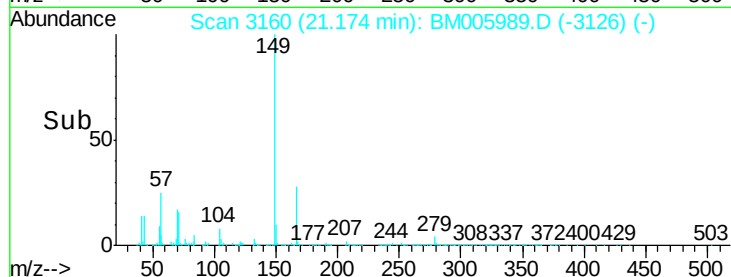
167 28.4 22.1 33.1

279 3.9 3.3 4.9

Manual Integrations

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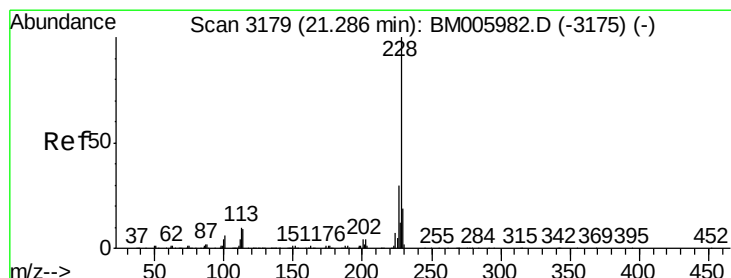
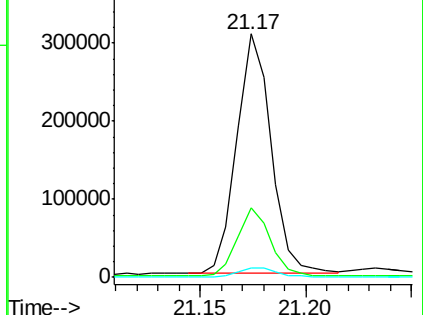
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 73.81 ng/ul

RT: 21.29 min Scan# 3179

Delta R.T. -0.00 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

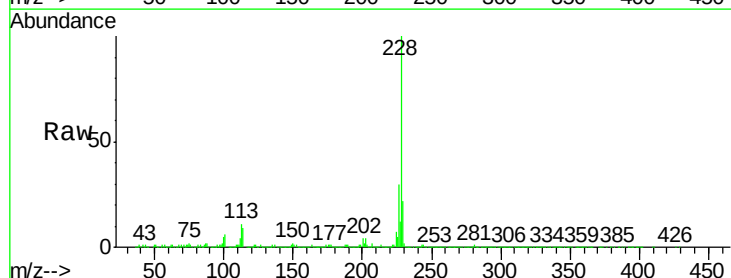
Tgt Ion:228 Resp: 2208506

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.2

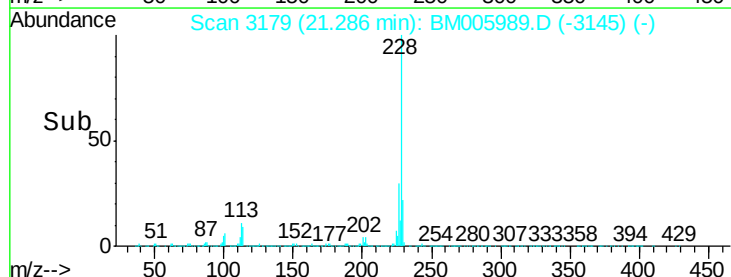
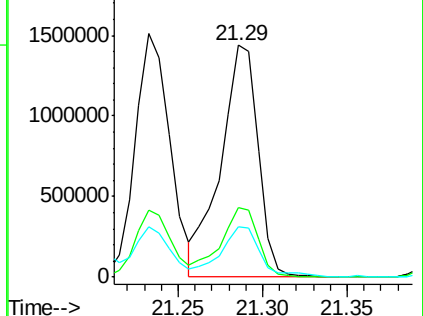
229 21.9 15.8 23.6

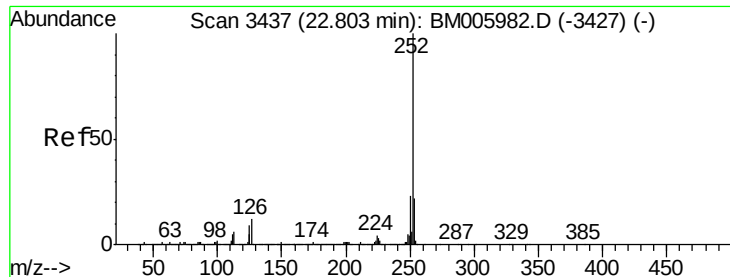


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 81.18 ng/ul

RT: 22.81 min Scan# 3438

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

D9Z32

Tgt Ion:252 Resp: 2932458

Ion Ratio Lower Upper

252 100

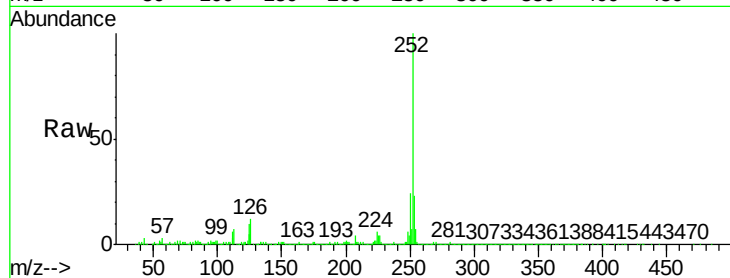
253 22.7 17.7 26.5

125 9.7 7.4 11.2

Manual Integrations

umangi

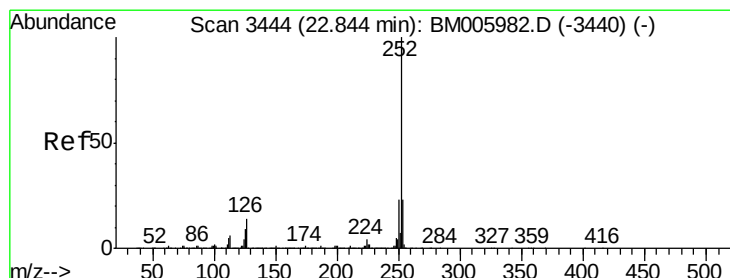
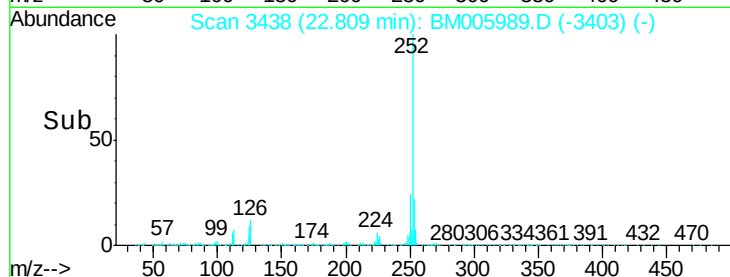
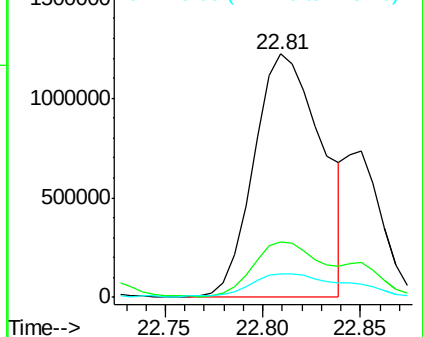
6/27/2016 4:40:37 PM



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: 28.19 ng/ul m

RT: 22.85 min Scan# 3445

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

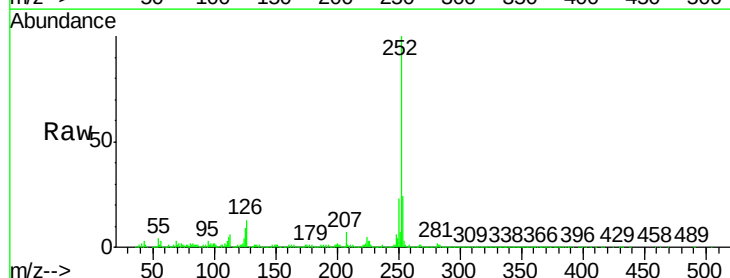
Tgt Ion:252 Resp: 927127

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

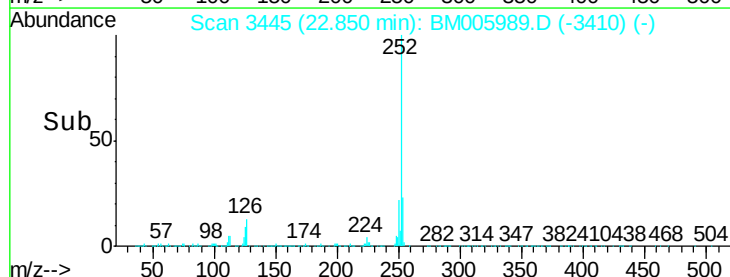
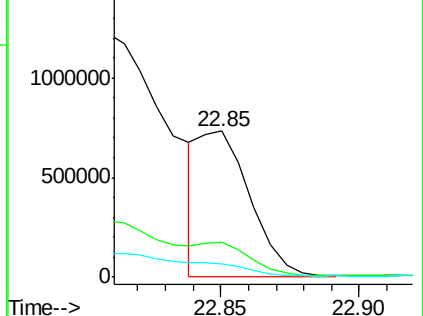
125 9.4 7.4 11.0

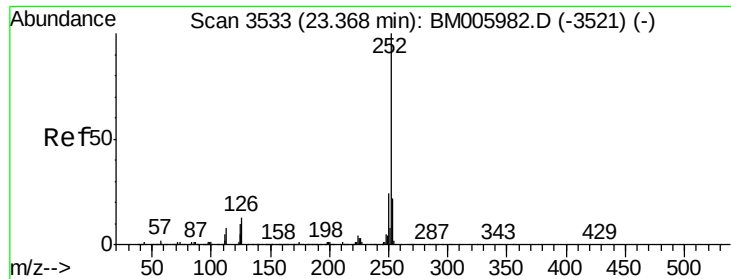


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 54.93 ng/ul

RT: 23.37 min Scan# 3534

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampled :

D9Z32

Tgt Ion:252 Resp: 1843086

Ion Ratio Lower Upper

252 100

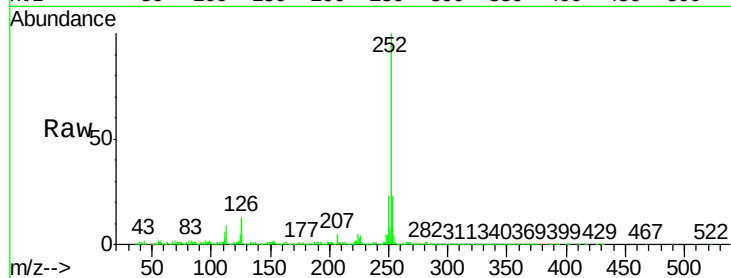
253 23.2 17.2 25.8

125 9.9 8.5 12.7

Manual Integrations

umangi

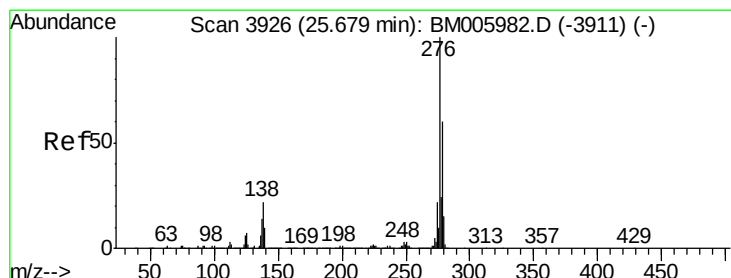
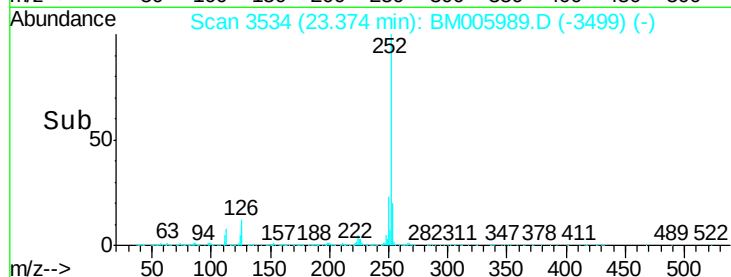
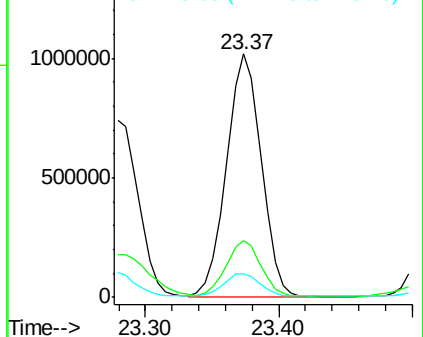
6/27/2016 4:40:37 PM



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 37.71 ng/ul

RT: 25.69 min Scan# 3928

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

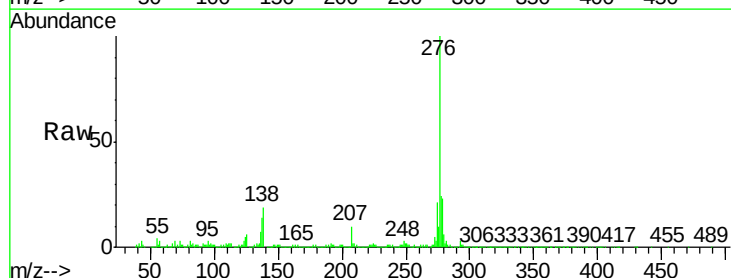
Tgt Ion:276 Resp: 1411457

Ion Ratio Lower Upper

276 100

138 19.2 18.1 27.1

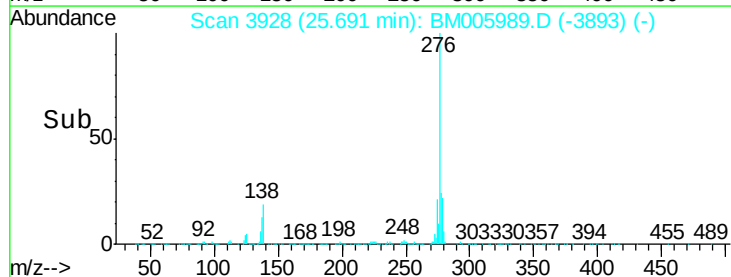
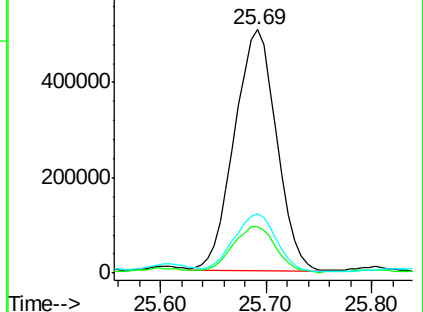
277 24.2 19.4 29.2

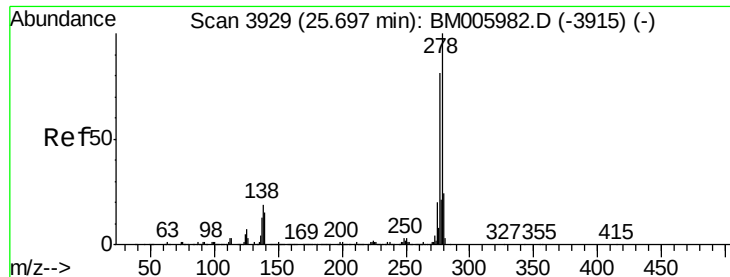


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 11.91 ng/ul m

RT: 25.69 min Scan# 3928

Delta R.T. -0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Instrument :

BNA_M

ClientSampleId :

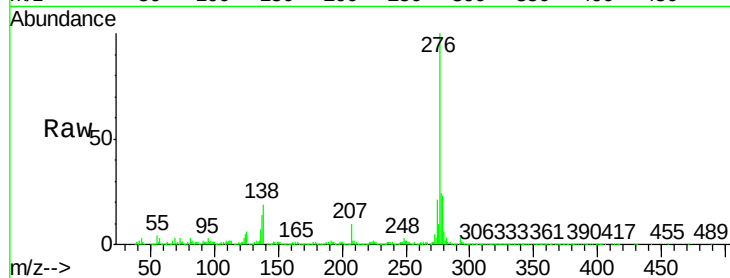
D9Z32

Tgt Ion:	278	Resp:	367956
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.6	19.0#
279	27.7	18.9	28.3

Manual Integrations

umangi

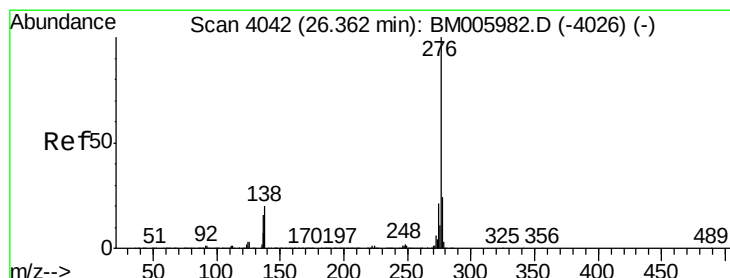
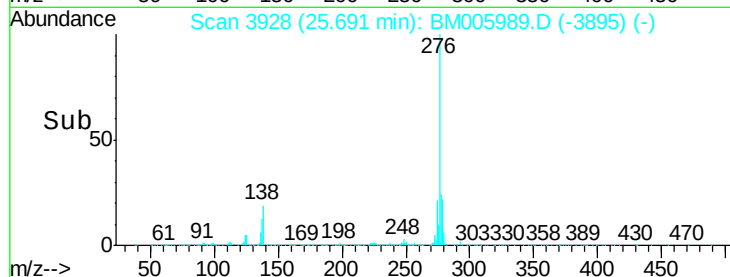
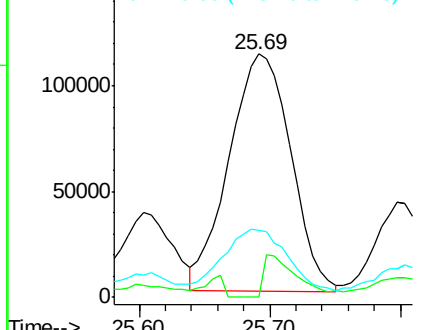
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Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 40.13 ng/ul

RT: 26.37 min Scan# 4044

Delta R.T. 0.01 min

Lab File: BM005989.D

Acq: 25 Jun 2016 05:13

Tgt Ion:	276	Resp:	1295410
Ion Ratio	Lower	Upper	
276	100		
138	19.1	17.2	25.8
277	22.6	18.7	28.1

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

