

Data Path : U:\HPCHEM1\BNA M\DATA\BM012818\
 Data File : BM013947.D
 Acq On : 29 Jan 2018 06:00
 Operator : SJ/JU
 Sample : J1243-10 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F6B33

Manual Integrations
 APPROVED

Sohil
 1/29/2018 6:08:56 PM

Quant Time: Jan 29 07:24:35 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jan 29 04:03:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	194252	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	742654	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.23	164	637284	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.00	188	797891	20.00	ng/ul	0.01
75) Chrysene-d12	21.20	240	863647	20.00	ng/ul	0.01
83) Perylene-d12	23.38	264	870156	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.14	96	14884	3.03	ng/uL	0.00
5) Phenol-d5	6.77	99	367352	24.63	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	232090	25.69	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	316536	26.05	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	281752	24.58	ng/ul	0.00
19) Nitrobenzene-d5	8.74	128	159503	27.68	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	173911	28.56	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	327366	27.83	ng/ul	0.01
29) 4-Chloroaniline-d4	10.50	131	180975	17.73	ng/ul	0.00
43) Dimethylphthalate-d6	13.66	166	873645	16.63	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	1061549	15.85	ng/ul	0.00
51) 4-Nitrophenol-d4	14.48	143	104259	12.21	ng/ul	0.01
57) Fluorene-d10	15.23	176	713785	15.45	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.41	200	95816	19.95	ng/ul	0.04
70) Anthracene-d10	17.12	188	1101041	28.33	ng/ul	0.04
76) Pyrene-d10	19.40	212	1269579	31.57	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.24	264	1173904	29.35	ng/ul	0.01

Target Compounds

					Ovalue
6) Phenol	6.79	94	56158	3.755 ng/ul#	85
28) Naphthalene	10.41	128	32393765m	876.765 ng/ul	
34) 2-Methylnaphthalene	12.04	142	22716572m	824.669 ng/ul	
40) 1,1'-Biphenyl	13.06	154	7203655	135.797 ng/ul	99
44) Dimethylphthalate	13.70	163	198521	3.844 ng/ul	98
47) Acenaphthylene	13.96	152	209000	3.410 ng/ul#	60
49) Acenaphthene	14.32	153	17446049	411.051 ng/ul#	86
53) Dibenzofuran	14.64	168	19519689m	305.713 ng/ul	
58) Fluorene	15.30	166	15084409	288.408 ng/ul	97
68) Pentachlorophenol	16.67	266	920151	170.700 ng/ul	98
69) Phenanthrene	17.04	178	36316077m	818.824 ng/ul	
71) Anthracene	17.15	178	10816829	236.452 ng/ul	95
72) Carbazole	17.41	167	4318735	114.369 ng/ul	99
74) Fluoranthene	19.07	202	24791950m	468.289 ng/ul	
77) Pyrene	19.43	202	21122589m	402.307 ng/ul	
80) Benzo(a)anthracene	21.18	228	5459464	104.616 ng/ul	99
82) Chrysene	21.23	228	3906940	81.608 ng/ul	98
85) Benzo(b)fluoranthene	22.73	252	2202616	41.218 ng/ul#	99
86) Benzo(k)fluoranthene	22.77	252	849437m	16.445 ng/ul	
88) Benzo(a)pyrene	23.29	252	1271428	25.186 ng/ul#	97
89) Indeno(1,2,3-cd)pyrene	25.56	276	383476	6.435 ng/ul	97
90) Dibenz(a,h)anthracene	25.55	278	113071	2.247 ng/ul#	95
91) Benzo(g,h,i)perylene	26.23	276	226056	4.609 ng/ul	94

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Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

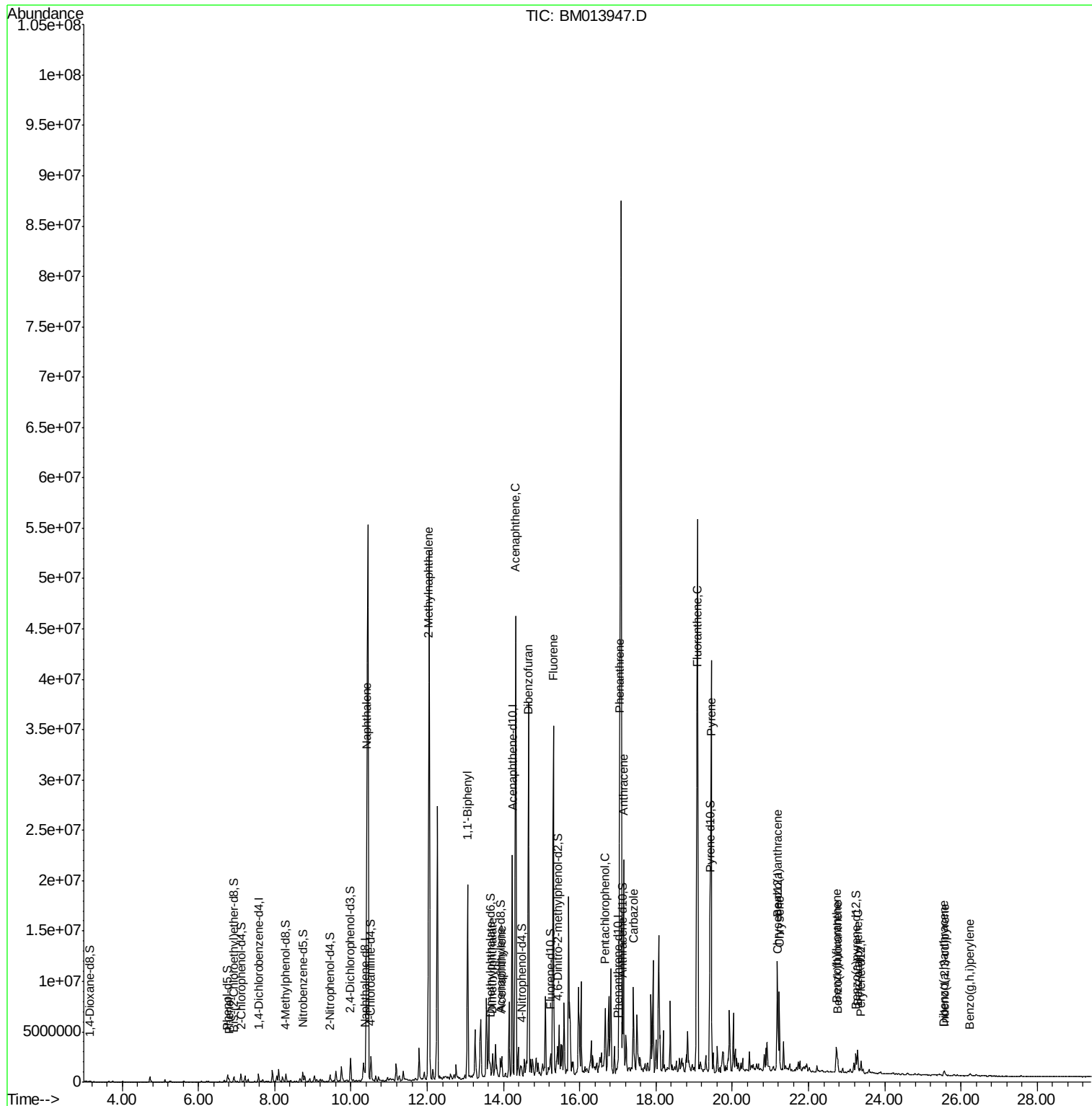
Data Path : U:\HPCHEM1\BNA M\DATA\BM012818\
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Sample : J1243-10 20X
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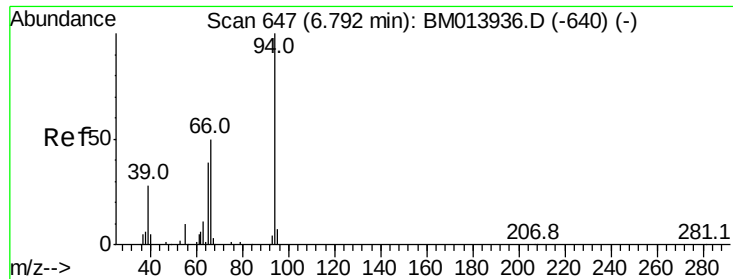
Instrument :
BNA_M
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F6B33

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#6

Phenol

Concen: 3.755 ng/ul

RT: 6.79 min Scan# 647

Delta R.T. 0.00 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

ClientSampled :

F6B33

Tot Ion: 94 Resp: 56158

Ion Ratio Lower Upper

94 100

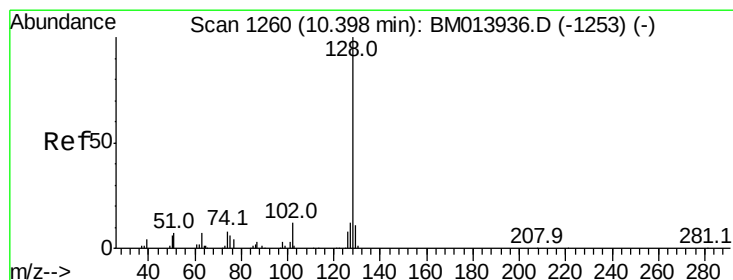
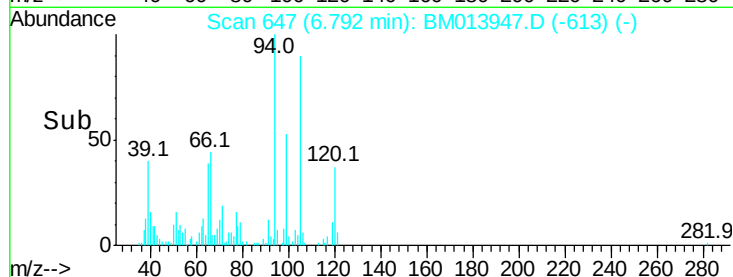
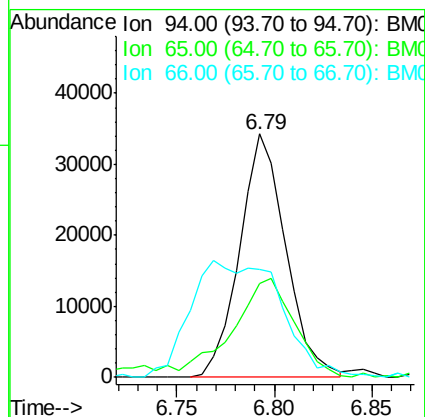
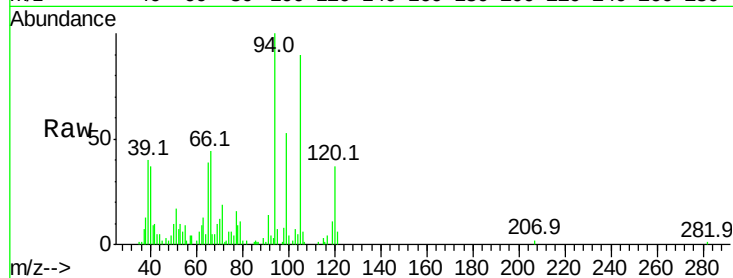
65 38.7 28.2 42.4

66 44.1 47.2 70.8#

Manual Integrations
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#28

Naphthalene

Concen: 876.765 ng/ul m

RT: 10.41 min Scan# 1262

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

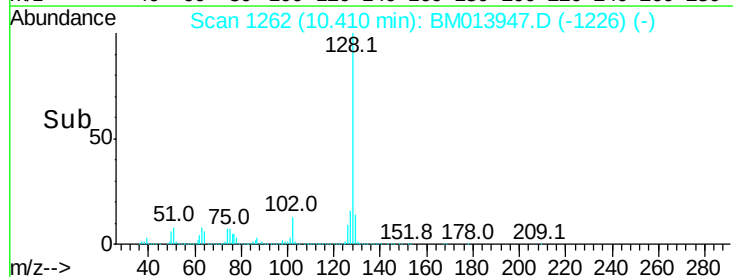
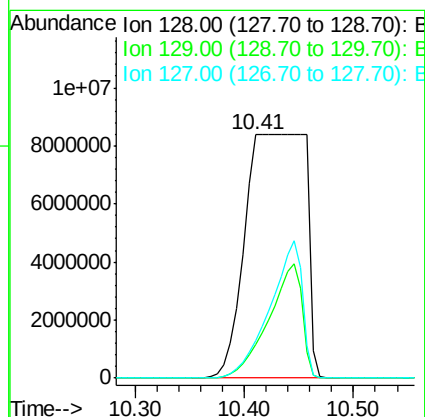
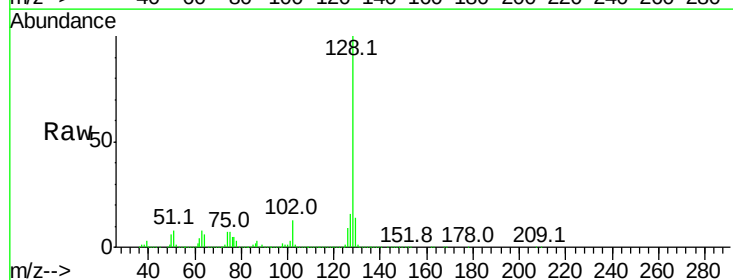
Tgt Ion: 128 Resp: 32393765

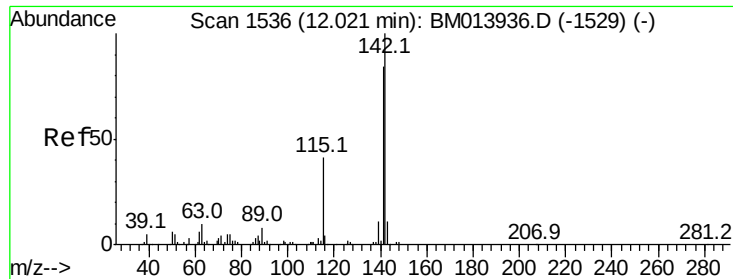
Ion Ratio Lower Upper

128 100

129 13.8 8.8 13.2#

127 15.6 10.6 16.0





#34

2-Methylnaphthalene

Concen: 824.669 ng/ul m

RT: 12.04 min Scan# 1539

Delta R.T. 0.02 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

ClientSampleId :

F6B33

Tot Ion:142 Resp:22716572

Ion Ratio Lower Upper

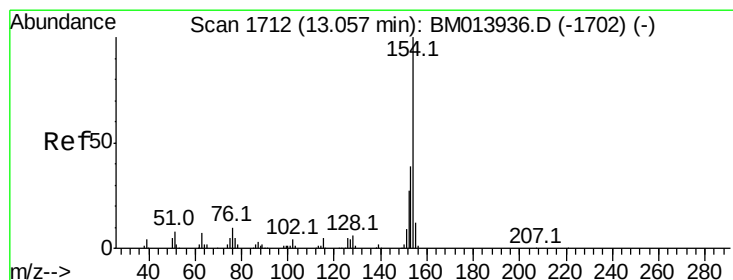
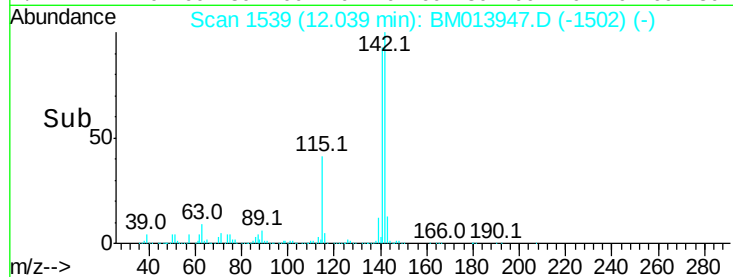
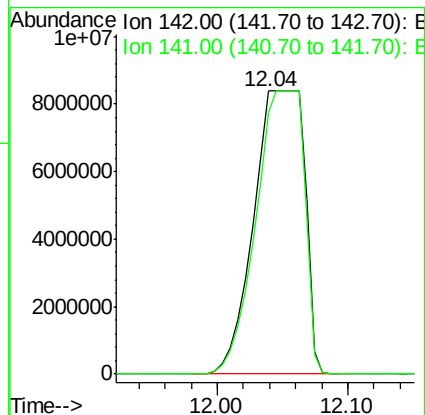
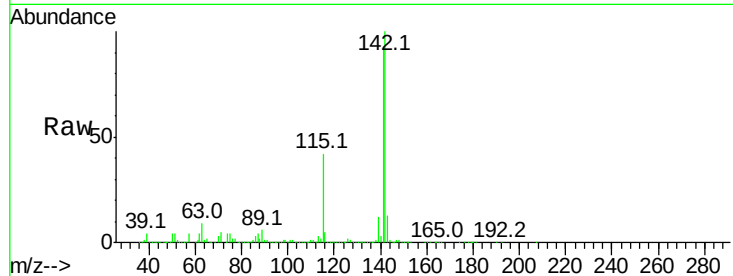
142 100

141 92.6 74.1 111.1

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#40

1,1'-Biphenyl

Concen: 135.797 ng/ul

RT: 13.06 min Scan# 1713

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

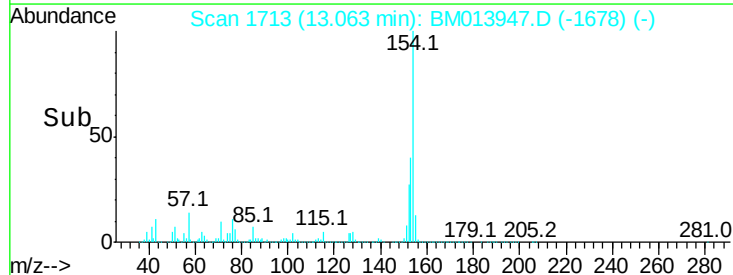
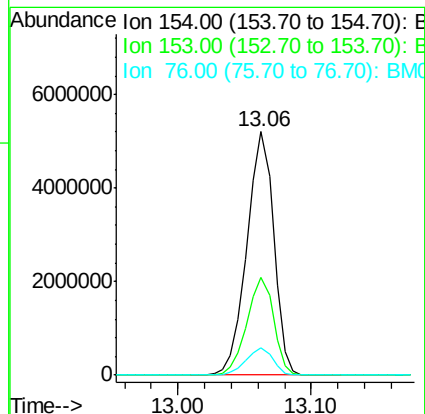
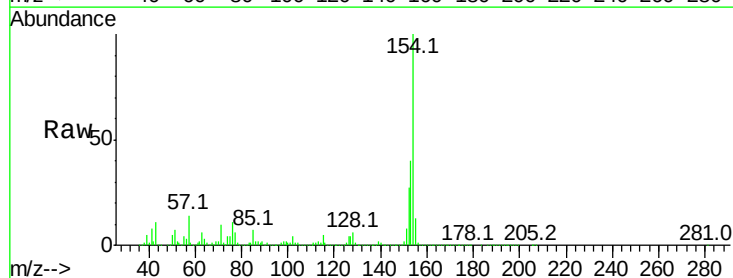
Tgt Ion:154 Resp: 7203655

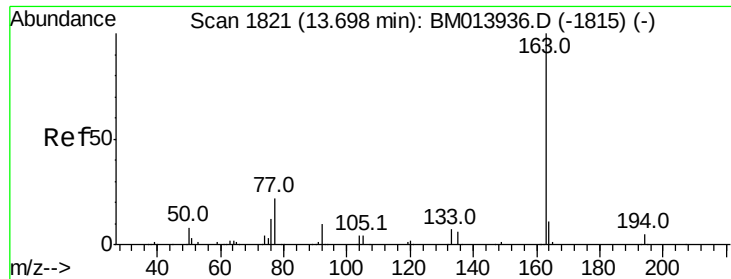
Ion Ratio Lower Upper

154 100

153 40.2 32.6 48.8

76 11.3 8.5 12.7





#44

Dimethylphthalate

Concen: 3.844 ng/ul

RT: 13.70 min Scan# 1822

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

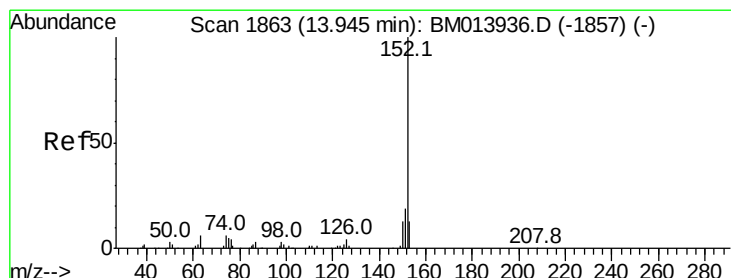
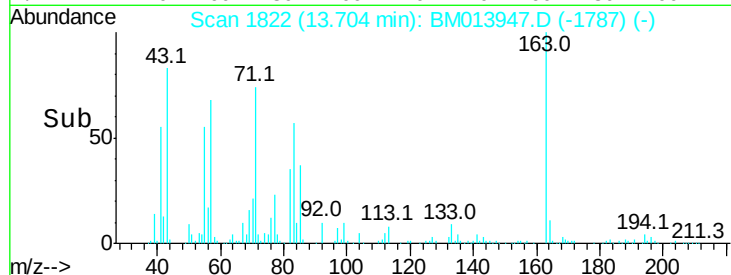
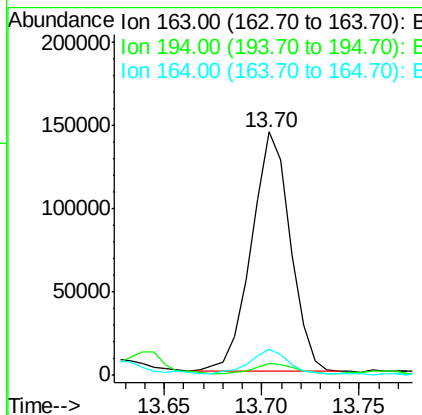
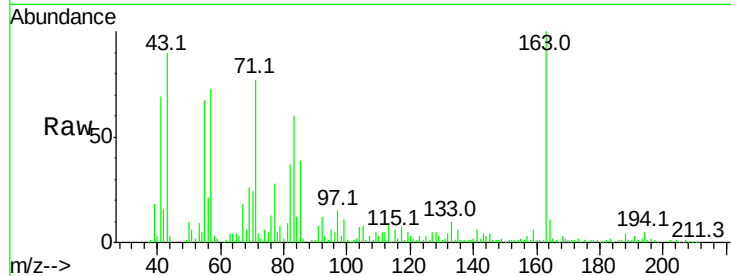
ClientSampled :

F6B33

Tot Ion:	163	Resp:	198521
Ion Ratio	Lower	Upper	
163	100		
194	4.9	3.5	5.3
164	10.9	8.2	12.4

Manual Integrations
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#47

Acenaphthylene

Concen: 3.410 ng/ul

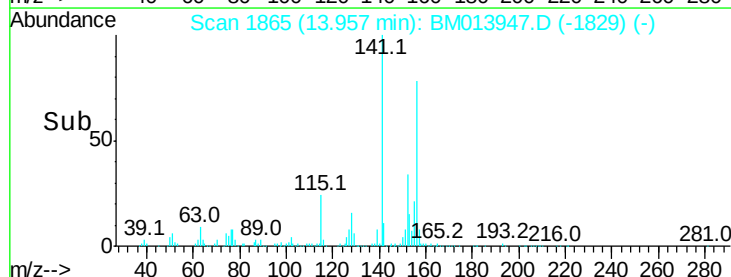
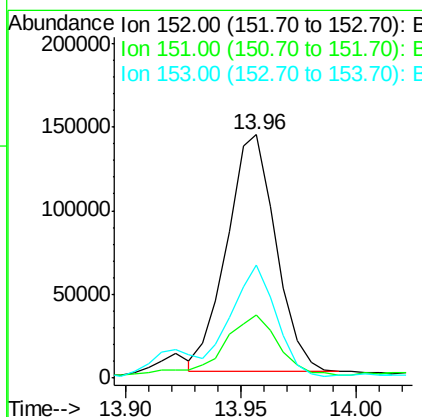
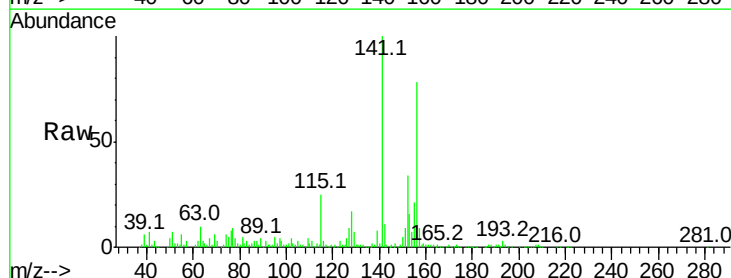
RT: 13.96 min Scan# 1865

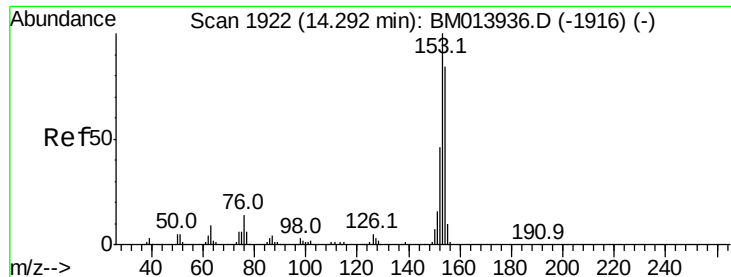
Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Tgt Ion:	152	Resp:	209000
Ion Ratio	Lower	Upper	
152	100		
151	26.2	16.3	24.5#
153	46.2	10.2	15.4#





#49

Acenaphthene

Concen: 411.051 ng/ul

RT: 14.32 min Scan# 1926

Delta R.T. 0.02 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

ClientSampled :

F6B33

Tot Ion:153 Resp:17446049

Ion Ratio Lower Upper

153 100

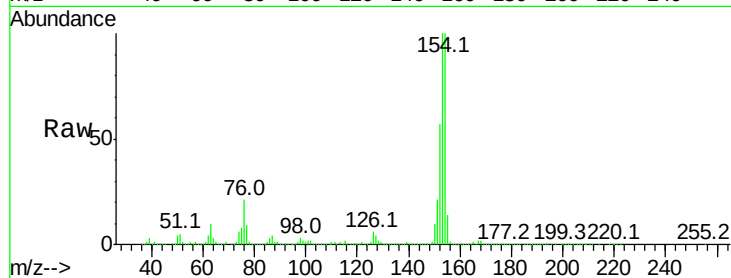
152 57.4 37.6 56.4#

154 100.0 70.4 105.6

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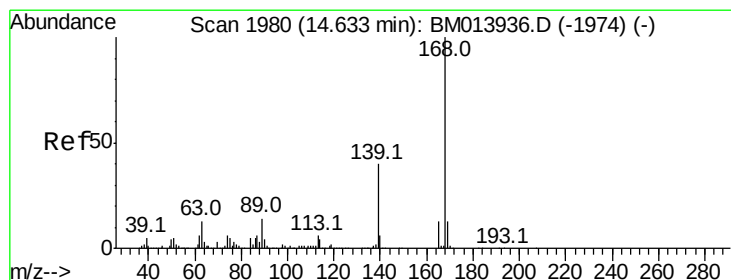
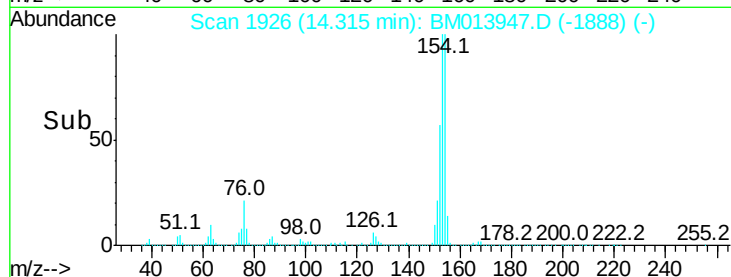
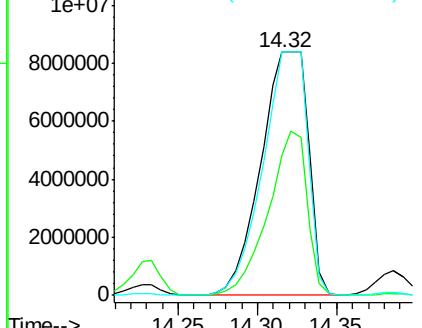
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 305.713 ng/ul m

RT: 14.64 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BM013947.D

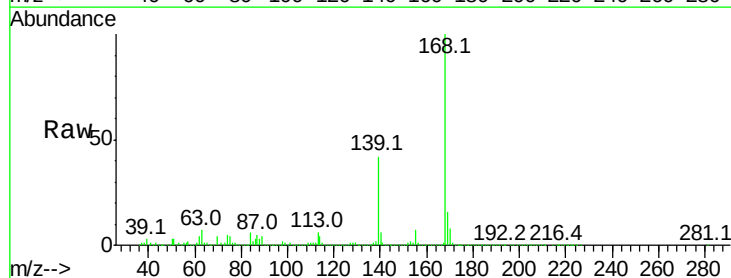
Acq: 29 Jan 2018 06:00

Tgt Ion:168 Resp:19519689

Ion Ratio Lower Upper

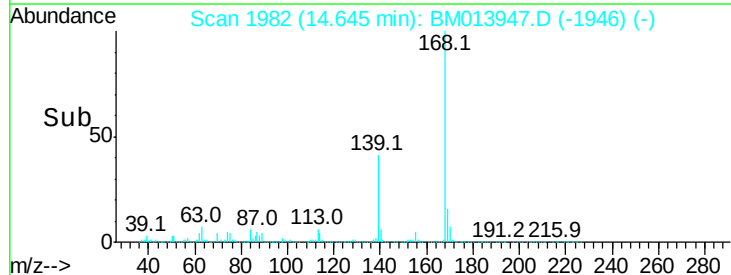
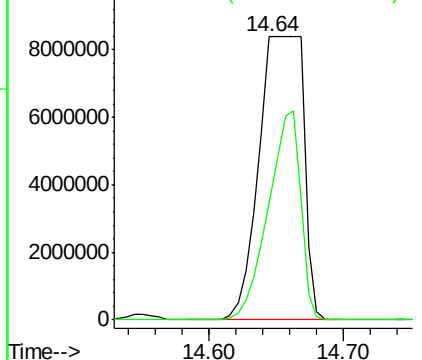
168 100

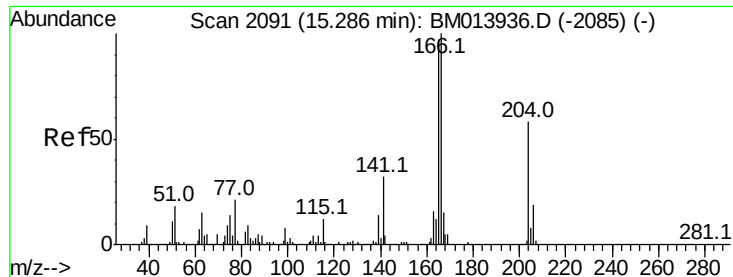
139 41.5 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





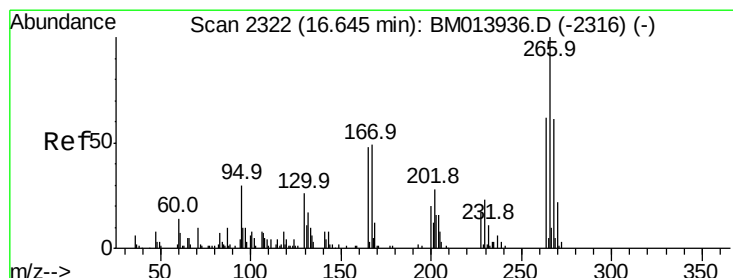
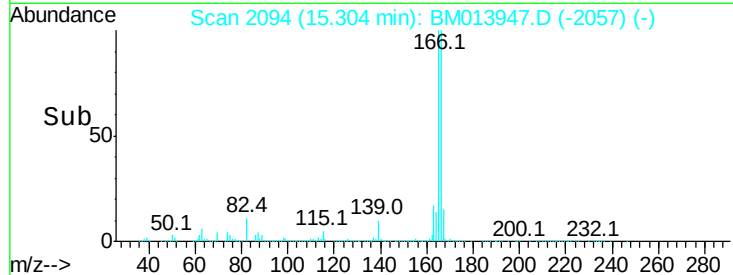
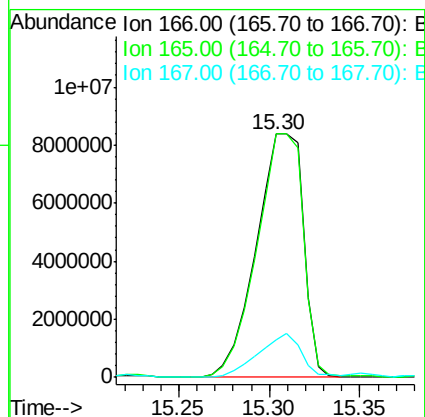
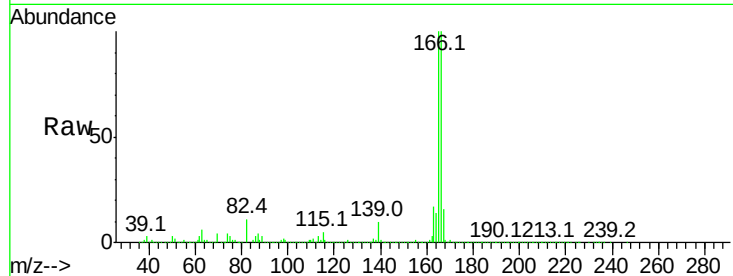
#58
 Fluorene
 Concen: 288.408 ng/ul
 RT: 15.30 min Scan# 2094
 Delta R.T. 0.02 min
 Lab File: BM013947.D
 Acq: 29 Jan 2018 06:00

Instrument :
 BNA_M
 ClientSampled :
 F6B33

Tot Ion:166 Resp:15084409
 Ion Ratio Lower Upper
 166 100
 165 100.0 77.9 116.9
 167 15.6 10.6 16.0

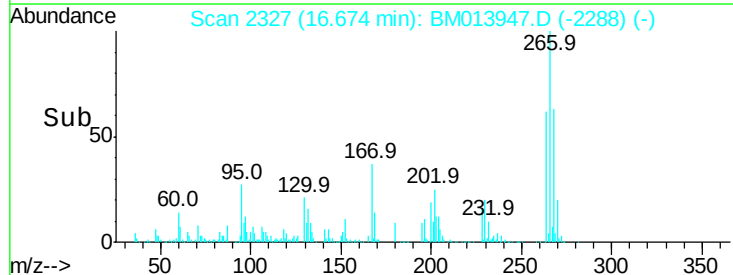
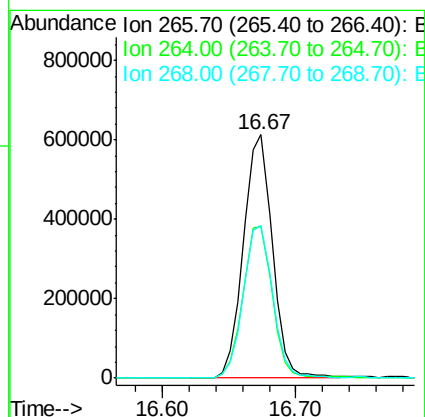
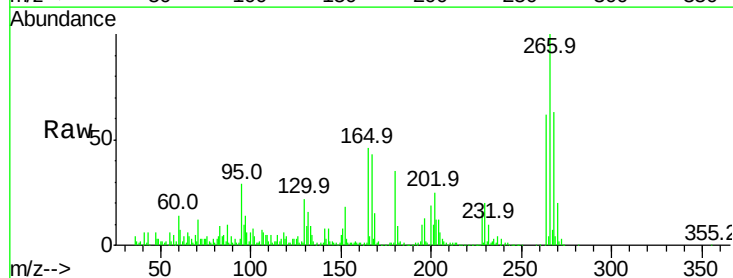
Manual Integrations
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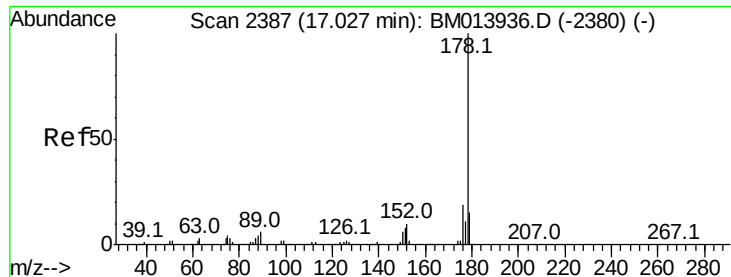
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#68
 Pentachlorophenol
 Concen: 170.700 ng/ul
 RT: 16.67 min Scan# 2327
 Delta R.T. 0.03 min
 Lab File: BM013947.D
 Acq: 29 Jan 2018 06:00

Tgt Ion:266 Resp: 920151
 Ion Ratio Lower Upper
 266 100
 264 62.1 49.3 73.9
 268 62.7 52.6 78.8





#69
 Phenanthrene
 Concen: 818.824 ng/ul m
 RT: 17.04 min Scan# 2389
 Delta R.T. 0.01 min
 Lab File: BM013947.D
 Acq: 29 Jan 2018 06:00

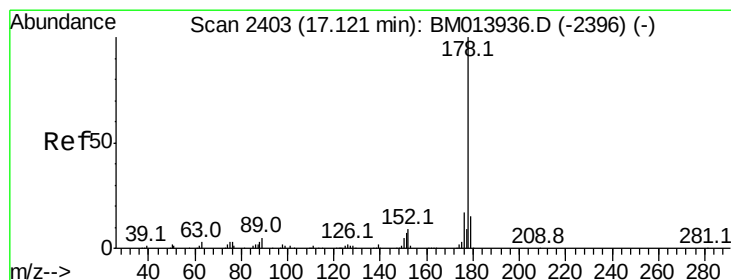
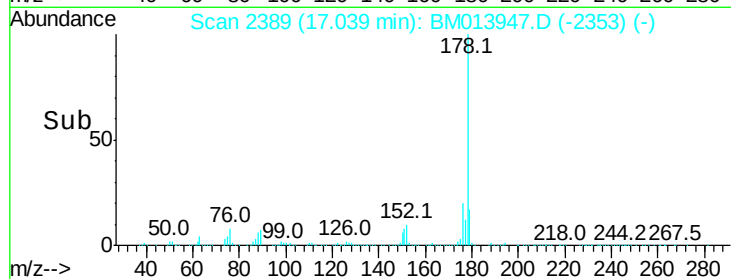
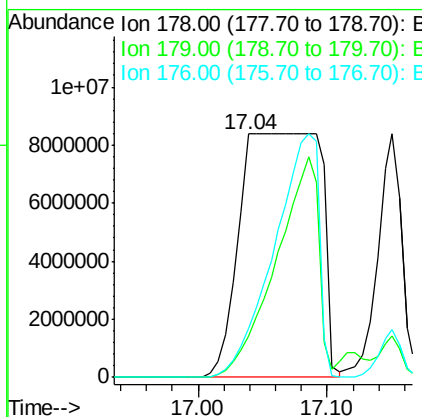
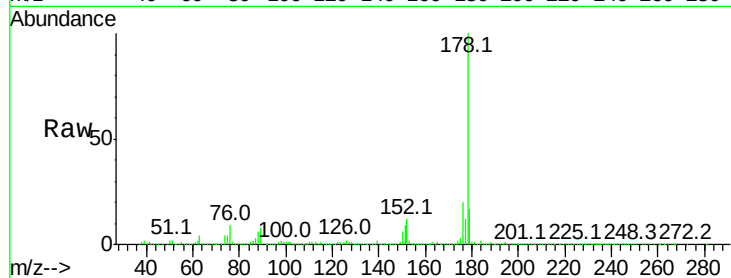
Instrument :
 BNA_M
 ClientSampled :
 F6B33

Tot Ion:178 Resp:36316077

Ion	Ratio	Lower	Upper
178	100		
179	17.2	12.6	19.0
176	20.1	14.9	22.3

Manual Integrations
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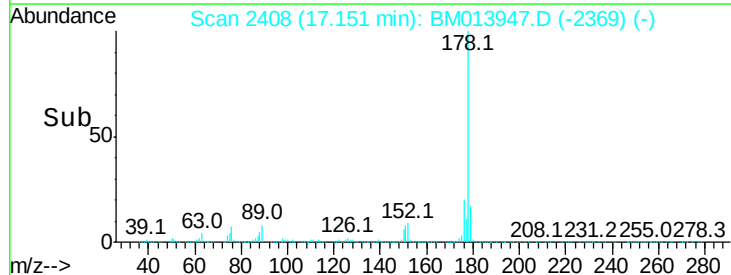
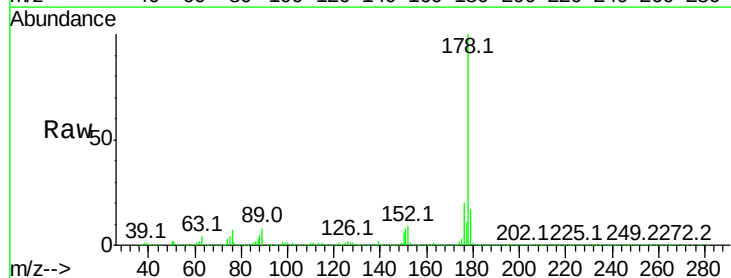
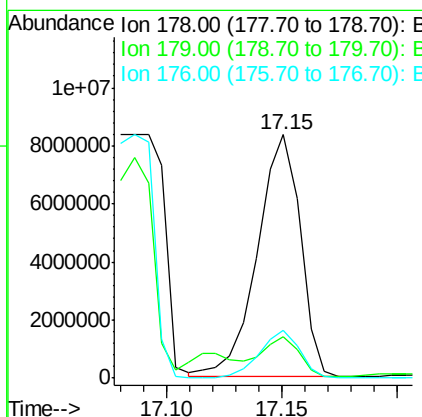
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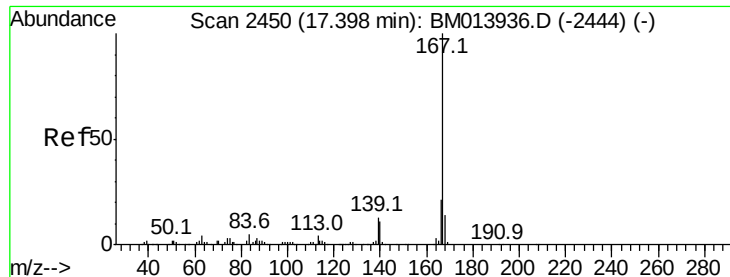


#71
 Anthracene
 Concen: 236.452 ng/ul
 RT: 17.15 min Scan# 2408
 Delta R.T. 0.03 min
 Lab File: BM013947.D
 Acq: 29 Jan 2018 06:00

Tgt Ion:178 Resp:10816829

Ion	Ratio	Lower	Upper
178	100		
179	17.0	11.7	17.5
176	19.9	14.6	21.8





#72

Carbazole

Concen: 114.369 ng/ul

RT: 17.41 min Scan# 2452

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

ClientSampleId :

F6B33

Tot Ion:167 Resp: 4318735

Ion Ratio Lower Upper

167 100

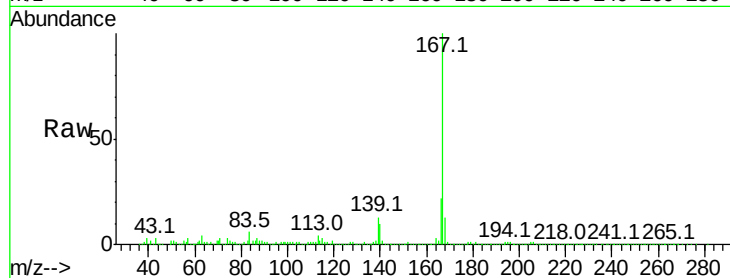
166 22.0 17.1 25.7

139 12.6 10.0 15.0

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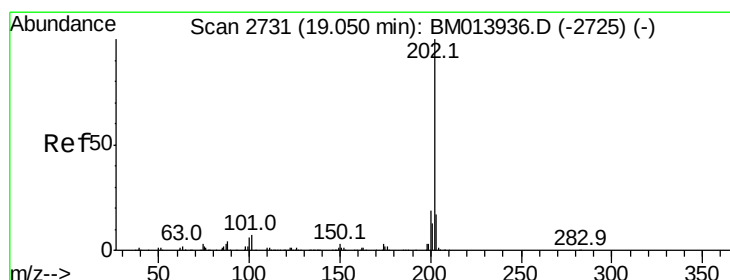
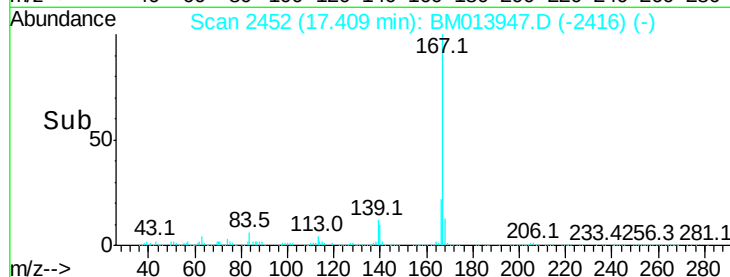
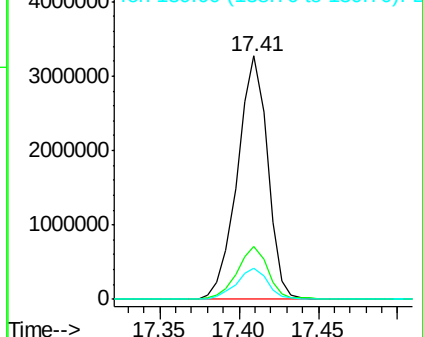
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 468.289 ng/ul m

RT: 19.07 min Scan# 2734

Delta R.T. 0.02 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Tgt Ion:202 Resp:24791950

Ion Ratio Lower Upper

202 100

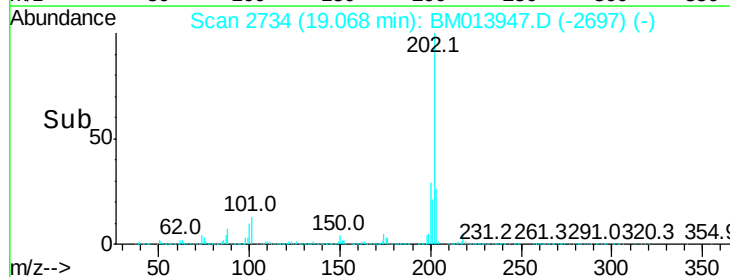
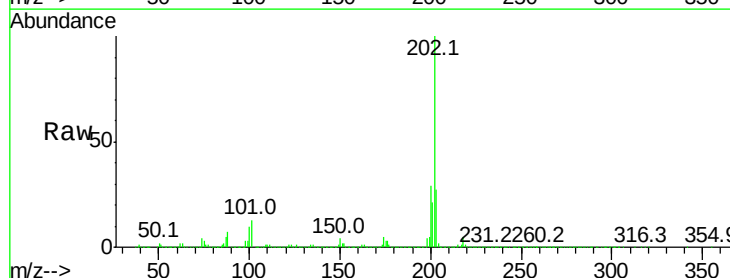
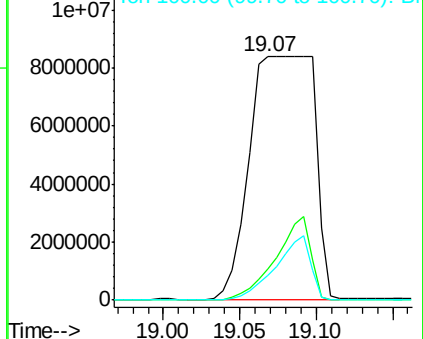
101 12.8 4.6 7.0#

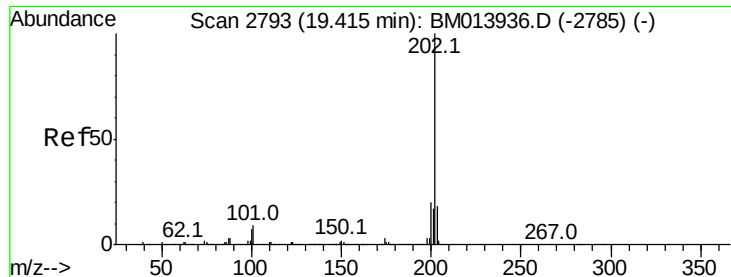
100 10.1 3.4 5.2#

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





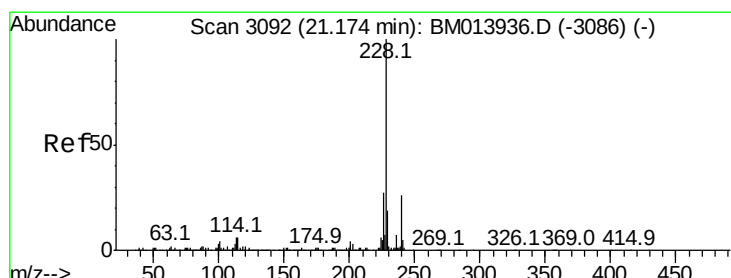
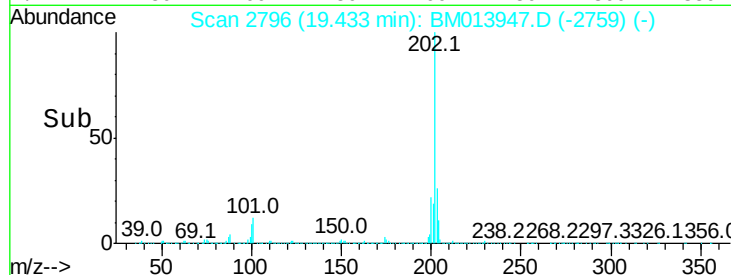
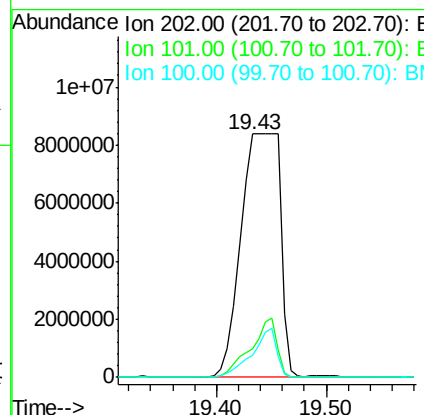
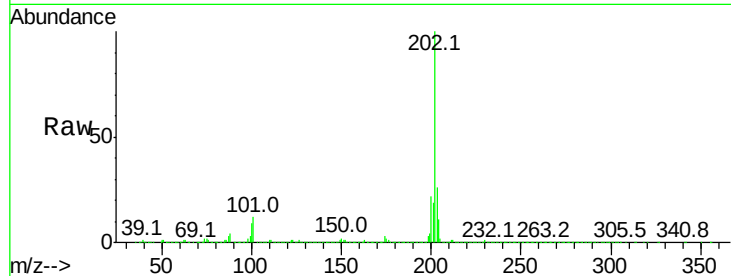
#77
Pvrene
Concen: 402.307 ng/ul m
RT: 19.43 min Scan# 2796
Delta R.T. 0.02 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Instrument :
BNA_M
ClientSampleId :
F6B33

Tot Ion:202 Resp:21122589
Ion Ratio Lower Upper
202 100
101 11.6 5.1 7.7#
100 9.0 4.9 7.3#

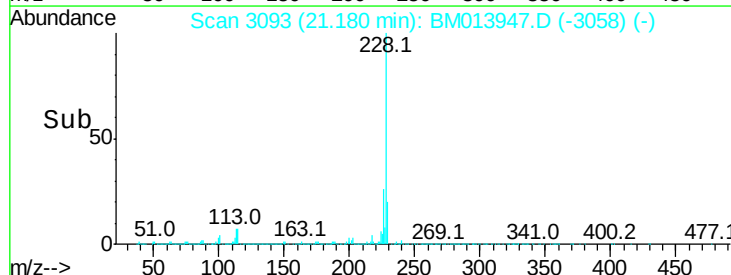
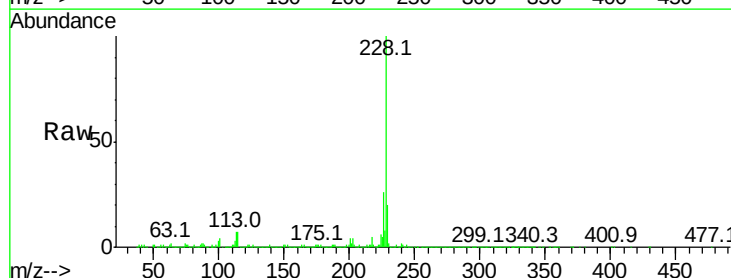
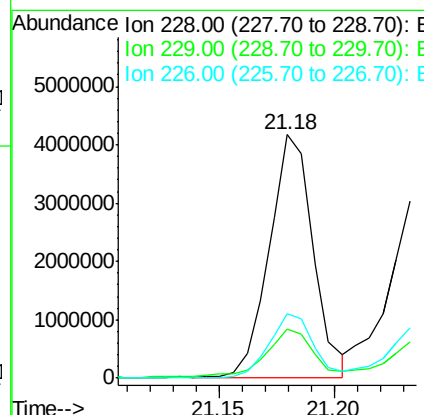
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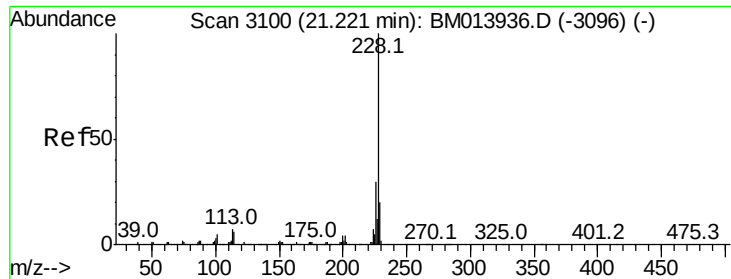
Sohil
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#80
Benzo(a)anthracene
Concen: 104.616 ng/ul
RT: 21.18 min Scan# 3093
Delta R.T. 0.01 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Tgt Ion:228 Resp: 5459464
Ion Ratio Lower Upper
228 100
229 20.2 15.4 23.0
226 26.4 21.4 32.0





#82

Chrysene

Concen: 81.608 ng/ul

RT: 21.23 min Scan# 3102

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Instrument :

BNA_M

ClientSampleId :

F6B33

Tot Ion:228 Resp: 3906940

Ion	Ratio	Lower	Upper
228	100		
226	28.2	23.4	35.2
229	20.8	15.5	23.3

228 100

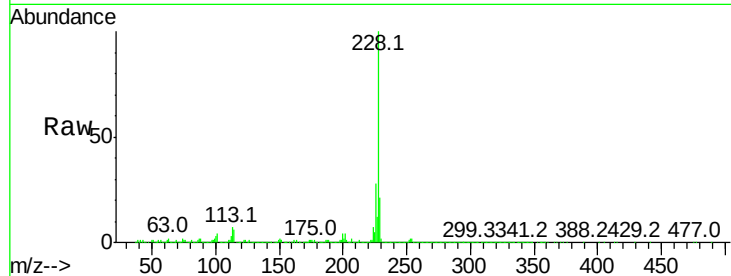
226 28.2 23.4 35.2

229 20.8 15.5 23.3

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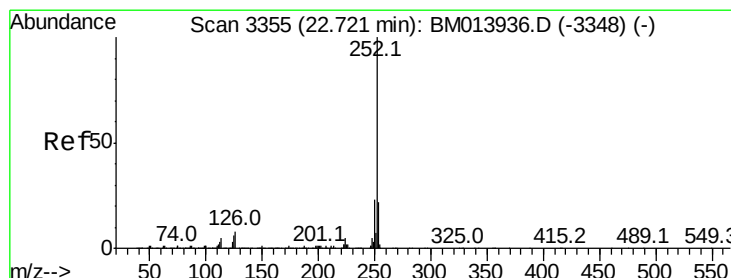
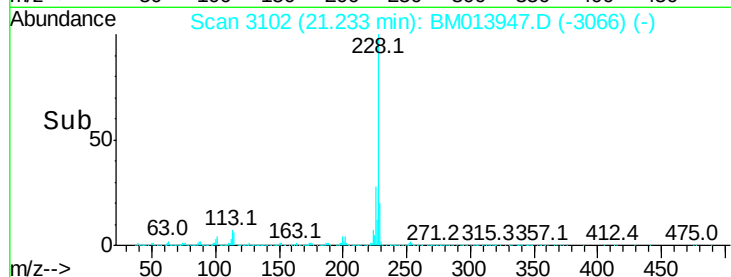
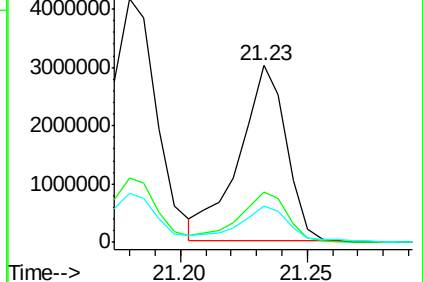
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 41.218 ng/ul

RT: 22.73 min Scan# 3357

Delta R.T. 0.01 min

Lab File: BM013947.D

Acq: 29 Jan 2018 06:00

Tgt Ion:252 Resp: 2202616

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	6.8	3.6	5.4

252 100

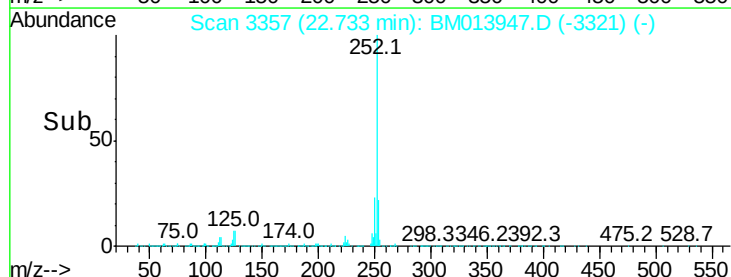
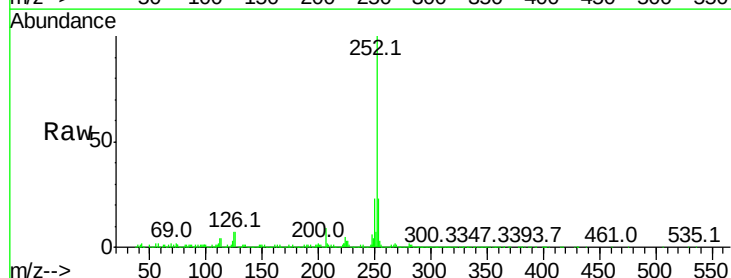
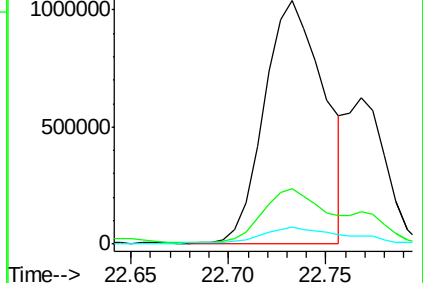
253 22.5 17.9 26.9

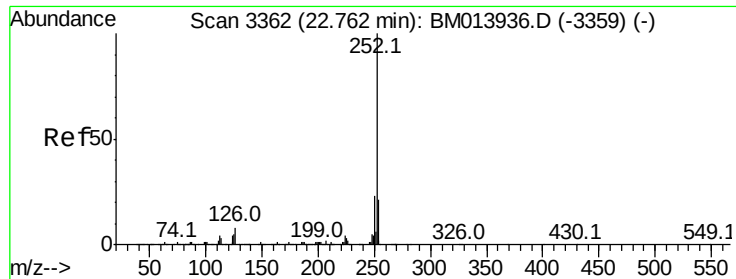
125 6.8 3.6 5.4

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





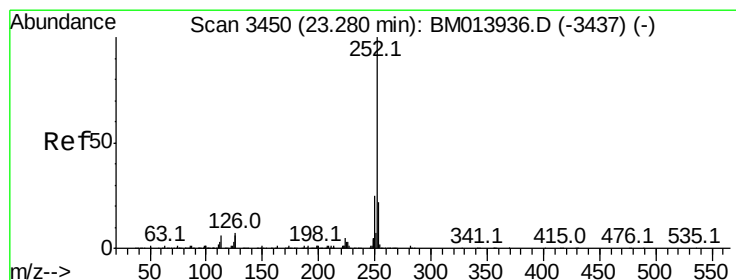
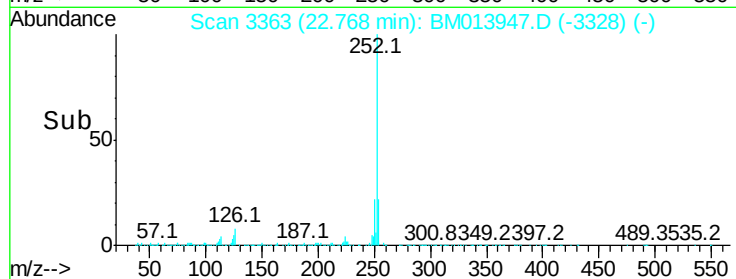
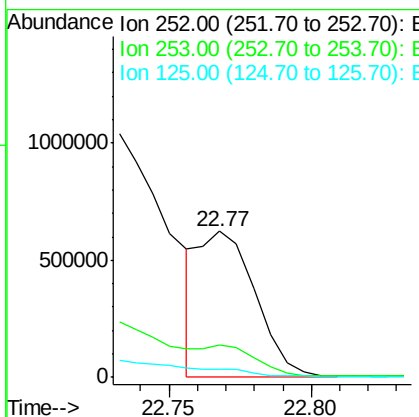
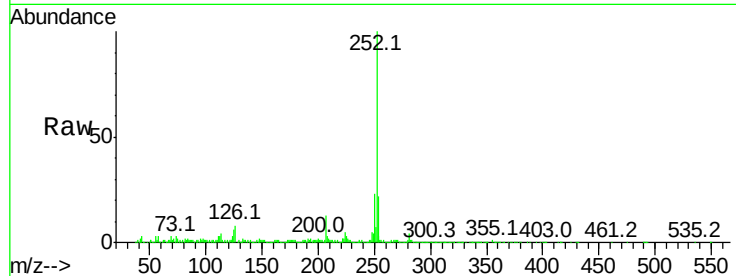
#86
Benzo(k)fluoranthene
Concen: 16.445 ng/ul m
RT: 22.77 min Scan# 3363
Delta R.T. 0.01 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Instrument :
BNA_M
ClientSampled :
F6B33

Tot Ion	Ratio	Resp	Lower	Upper
252	100	849437		
253	22.2	17.1	25.7	
125	5.8	3.4	5.2	

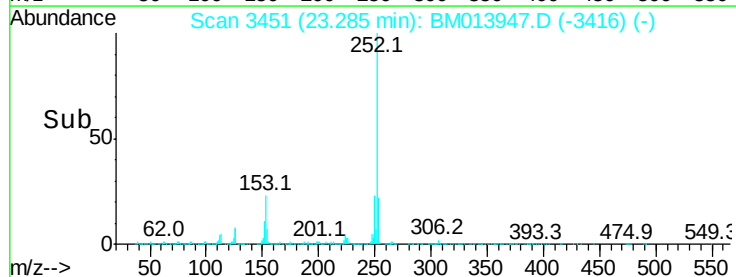
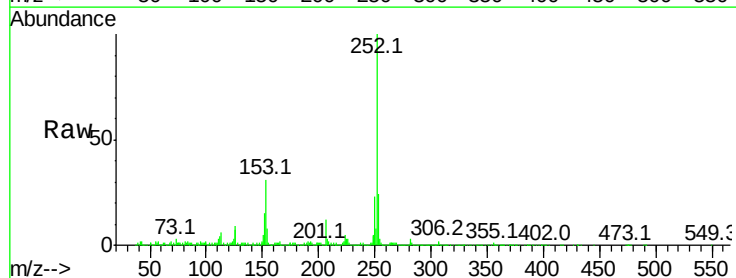
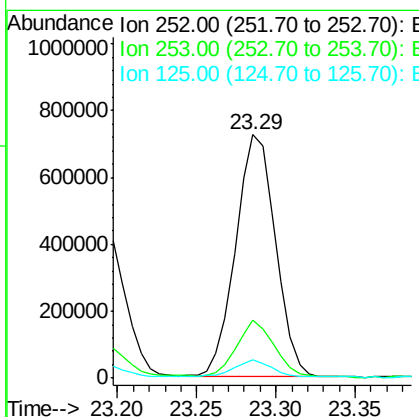
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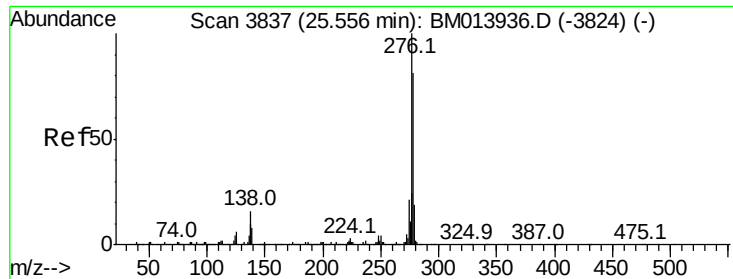
Sohil
1/29/2018 6:08:56 PM



#88
Benzo(a)pyrene
Concen: 25.186 ng/ul
RT: 23.29 min Scan# 3451
Delta R.T. 0.01 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1271428		
253	23.7	18.2	27.2	
125	7.3	4.0	6.0	





#89

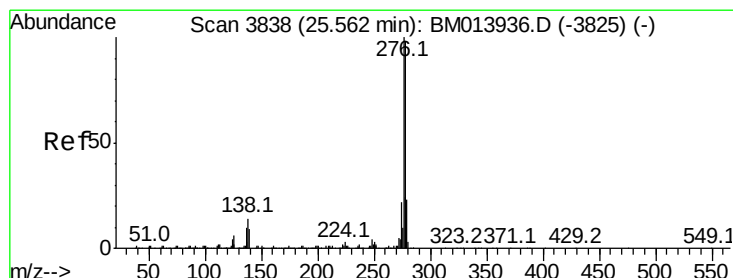
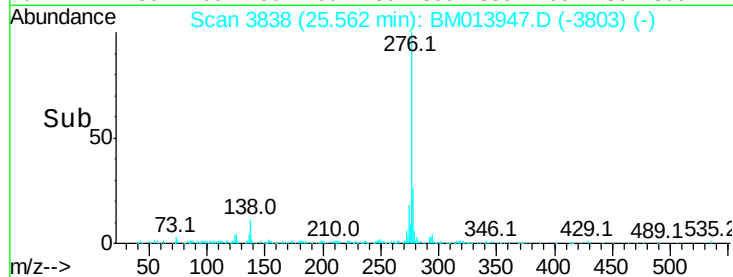
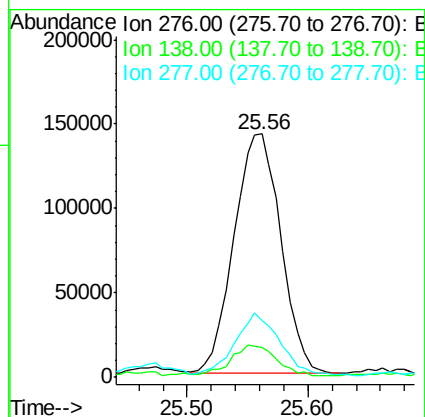
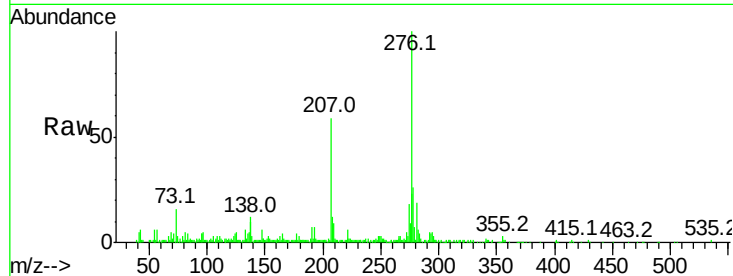
Indeno(1,2,3-cd)pyrene
Concen: 6.435 ng/ul
RT: 25.56 min Scan# 3838
Delta R.T. 0.01 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Instrument :
BNA_M
ClientSampleId :
F6B33

Tot Ion:	276	Resp:	383476
Ion Ratio	Lower	Upper	
276	100		
138	12.3	9.3	13.9
277	23.1	19.9	29.9

Manual Integrations
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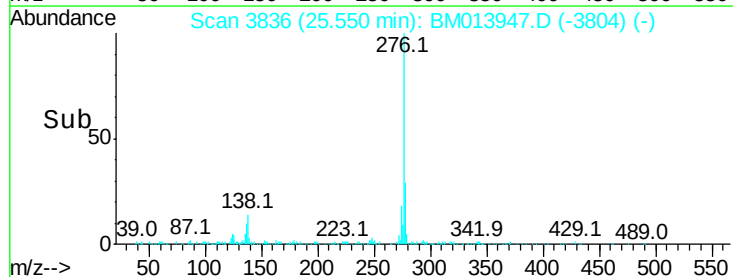
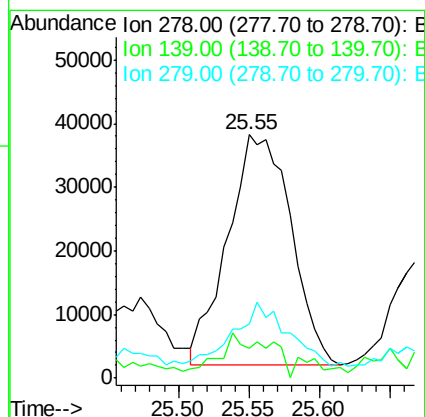
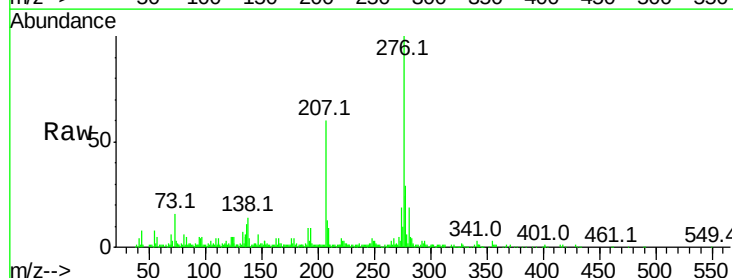
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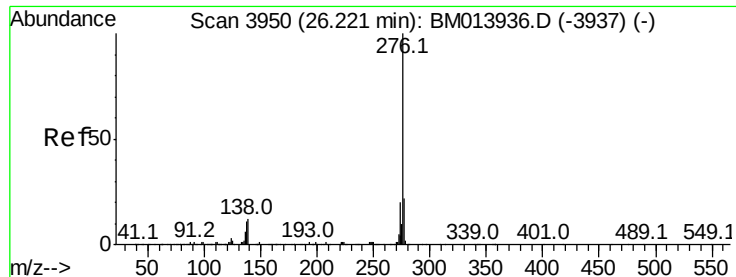


#90

Dibenzo(a,h)anthracene
Concen: 2.247 ng/ul
RT: 25.55 min Scan# 3836
Delta R.T. -0.01 min
Lab File: BM013947.D
Acq: 29 Jan 2018 06:00

Tgt Ion:	278	Resp:	113071
Ion Ratio	Lower	Upper	
278	100		
139	12.2	5.8	8.8#
279	22.0	18.6	27.8





#91
 Benzo(a,h,i)perylene
 Concen: 4.609 ng/ul
 RT: 26.23 min Scan# 3951
 Delta R.T. 0.01 min
 Lab File: BM013947.D
 Acq: 29 Jan 2018 06:00

Instrument :
 BNA_M
 ClientSampleId :
 F6B33

Tot Ion:	276	Resp:	226056
Ion Ratio	Lower	Upper	
276	100		
138	12.3	8.5	12.7
277	26.9	18.6	28.0

Manual Integrations
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Sohil
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