

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042318\
 Data File : BM014800.D
 Acq On : 24 Apr 2018 05:40
 Operator : SJ/JU
 Sample : J2431-15
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DASP6

Manual Integrations
 APPROVED

Sohil
 4/27/2018 7:32:21 PM

Quant Time: Apr 27 12:16:33 2018
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Apr 24 02:13:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.53	152	397147	20.00	ng/ul	0.00
18) Naphthalene-d8	11.37	136	1652627	20.00	ng/ul	0.00
35) Acenaphthene-d10	15.13	164	831979	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.89	188	1555099m	20.00	ng/ul	0.05
75) Chrysene-d12	21.96	240	1813767	20.00	ng/ul	0.03
83) Perylene-d12	24.44	264	2073928m	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.66	96	42537	4.68	ng/uL	0.00
5) Phenol-d5	7.65	99	780062	25.41	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.83	67	628322	31.91	ng/ul	0.00
9) 2-Chlorophenol-d4	8.05	132	649779	25.30	ng/ul	0.00
13) 4-Methylphenol-d8	9.22	113	593865	24.26	ng/ul	0.00
19) Nitrobenzene-d5	9.71	128	311150	26.04	ng/ul	0.00
22) 2-Nitrophenol-d4	10.44	143	320104	26.90	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.98	165	580639	24.02	ng/ul	0.00
29) 4-Chloroaniline-d4	11.49	131	838908	35.16	ng/ul	0.00
43) Dimethylphthalate-d6	14.52	166	1608849	24.77	ng/ul	0.00
46) Acenaphthylene-d8	14.83	160	2013462	25.11	ng/ul	0.00
51) 4-Nitrophenol-d4	15.29	143	261511	21.70	ng/ul	0.00
57) Fluorene-d10	16.12	176	1415886	25.07	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	16.27	200	40434m	4.81	ng/ul	0.07
70) Anthracene-d10	18.00	188	1980949	27.33	ng/ul	0.06
76) Pyrene-d10	20.20	212	2038255	23.75	ng/ul	0.02
87) Benzo(a)pyrene-d12	24.28	264	2550183m	25.03	ng/ul	0.02

Target Compounds

					Qvalue	
28) Naphthalene	11.43	128	999803	12.415	ng/ul#	93
34) 2-Methylnaphthalene	13.00	142	4714550	84.302	ng/ul	97
40) 1,1'-Biphenyl	13.97	154	5269681	78.765	ng/ul#	97
44) Dimethylphthalate	14.57	163	288257	4.591	ng/ul#	97
47) Acenaphthylene	14.86	152	1872324	24.098	ng/ul#	91
49) Acenaphthene	15.20	153	20633876m	373.693	ng/ul	
53) Dibenzofuran	15.52	168	22313667m	291.015	ng/ul	
58) Fluorene	16.17	166	29775877m	480.932	ng/ul	
69) Phenanthrene	17.89	178	63105213m	755.612	ng/ul	
71) Anthracene	18.02	178	24258981m	286.217	ng/ul	
72) Carbazole	18.24	167	1744563	24.128	ng/ul	94
73) Di-n-butylphthalate	18.76	149	996661m	11.335	ng/ul	
74) Fluoranthene	19.85	202	45952589m	504.675	ng/ul	
77) Pyrene	20.22	202	40503463m	382.200	ng/ul	
78) Butylbenzylphthalate	21.04	149	1566867	36.241	ng/ul	91
80) Benzo(a)anthracene	21.92	228	28429558m	268.038	ng/ul	
81) Bis(2-ethylhexyl)phthalate	21.80	149	13569798	213.828	ng/ul#	84
82) Chrysene	21.98	228	24571605m	247.465	ng/ul	
84) Di-n-octyl phthalate	22.76	149	1556089m	13.045	ng/ul	
85) Benzo(b)fluoranthene	23.69	252	30250344m	247.433	ng/ul	
86) Benzo(k)fluoranthene	23.74	252	12776908m	108.682	ng/ul	
88) Benzo(a)pyrene	24.34	252	22665211m	195.439	ng/ul	
89) Indeno(1,2,3-cd)pyrene	27.03	276	9076188m	64.693	ng/ul	

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Quant Title : SVOA CALIBRATION
QLast Update : Tue Apr 24 02:13:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	27.03	278	2591079m	21.935	ng/ul	
91) Benzo(g,h,i)perylene	27.84	276	7131706m	61.790	ng/ul	

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

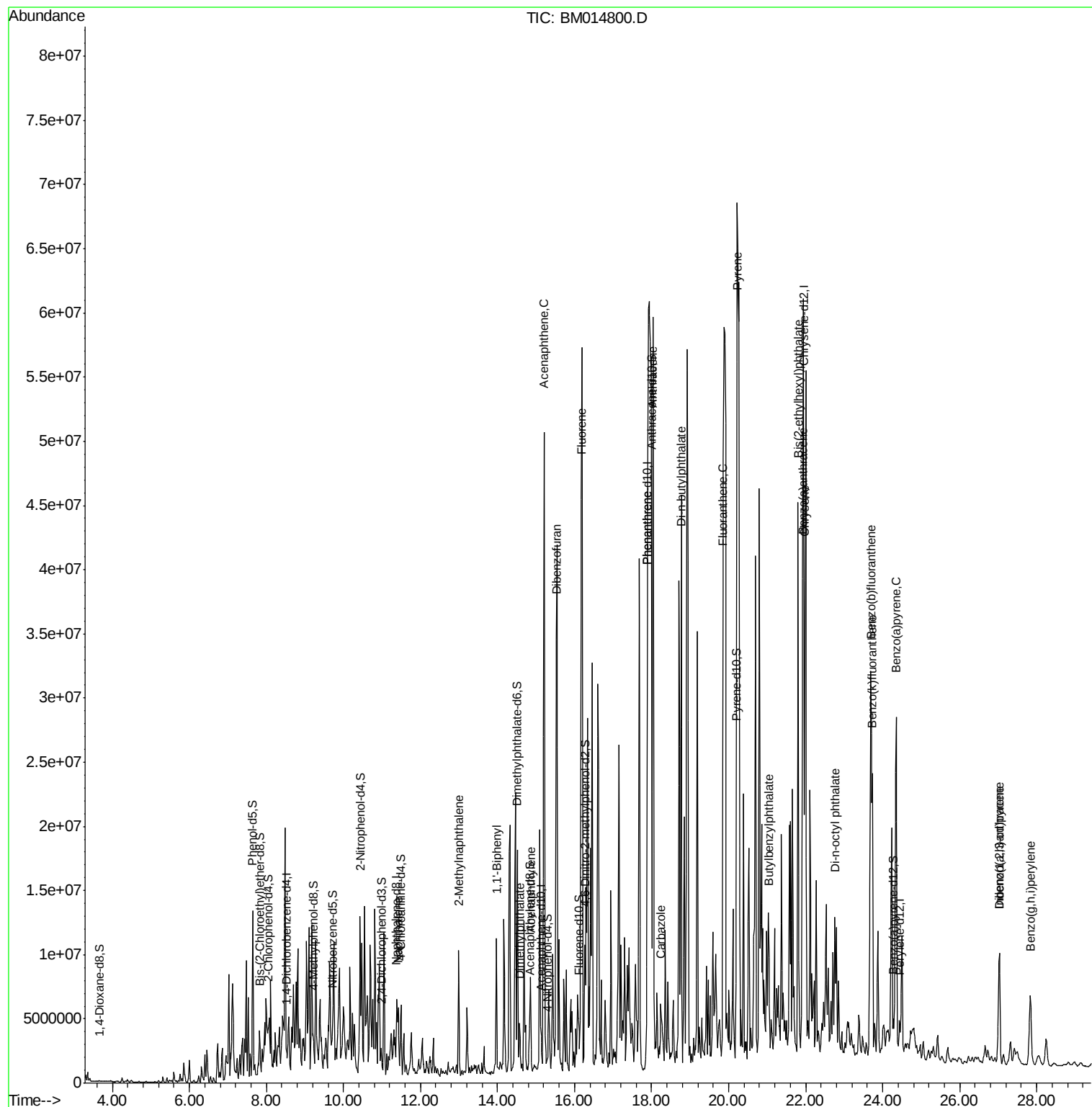
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042318\
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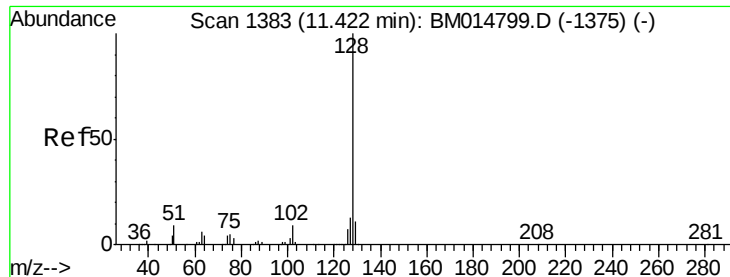
Instrument :
BNA_M
ClientSampled :
DASP6

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#28

Naphthalene

Concen: 12.415 ng/ul

RT: 11.43 min Scan# 1384

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

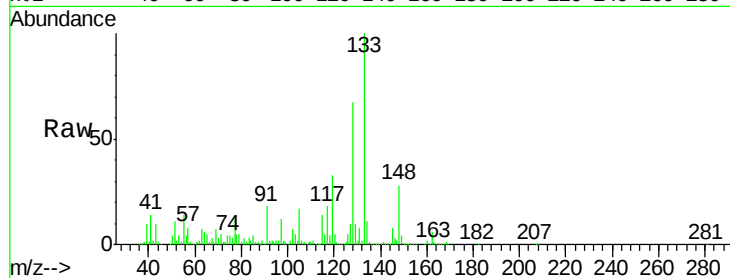
ClientSampled :

DASP6

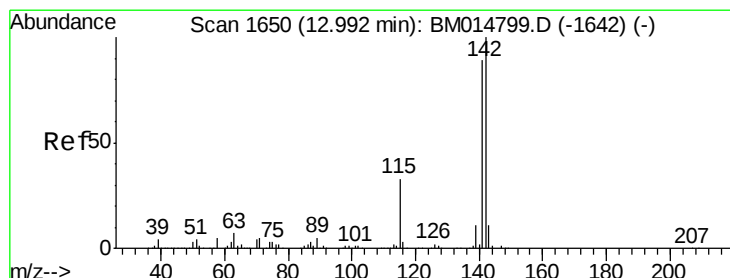
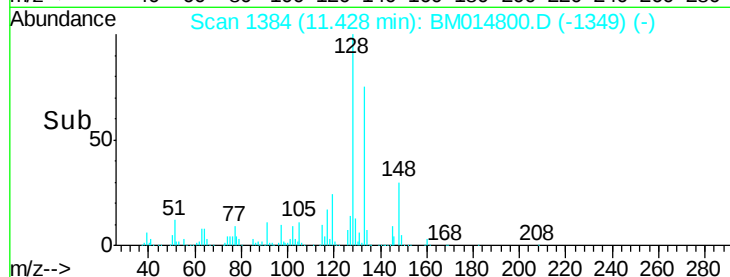
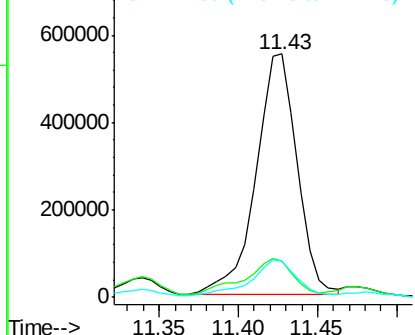
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	999803		
129	14.8	8.8	13.2#	
127	14.7	10.6	16.0	

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



#34

2-Methylnaphthalene

Concen: 84.302 ng/ul

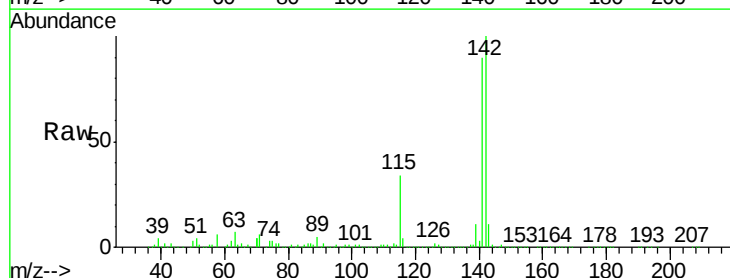
RT: 13.00 min Scan# 1651

Delta R.T. 0.01 min

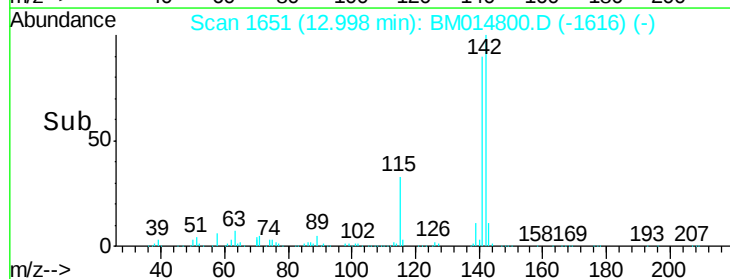
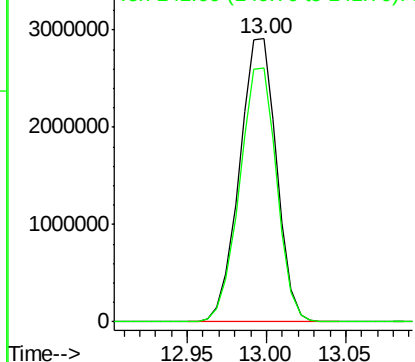
Lab File: BM014800.D

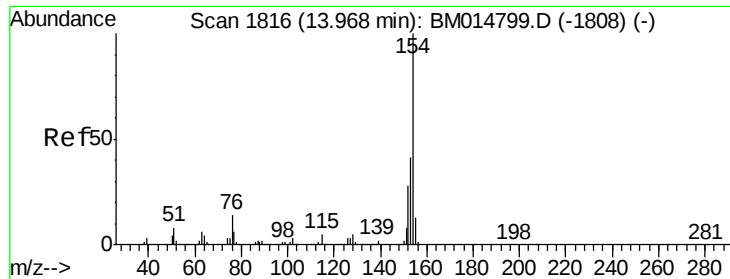
Acq: 24 Apr 2018 05:40

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	4714550		
141	89.8	74.1	111.1	



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





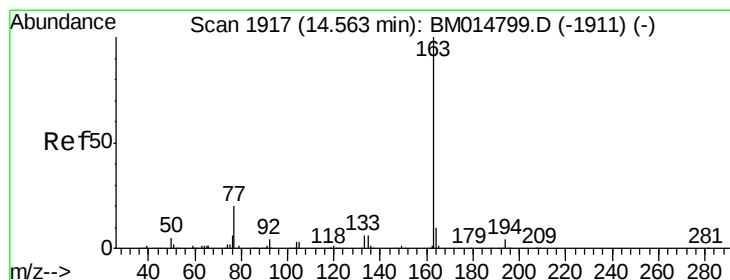
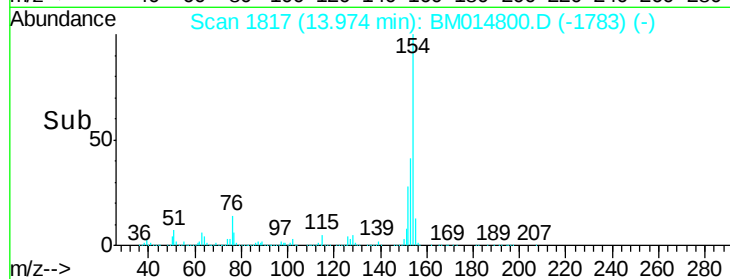
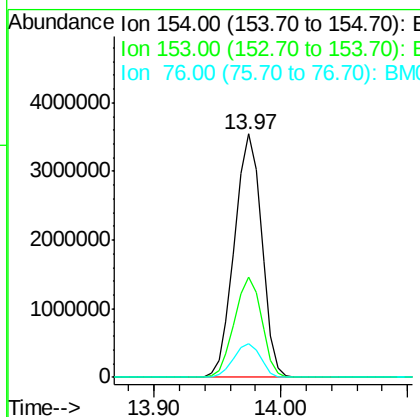
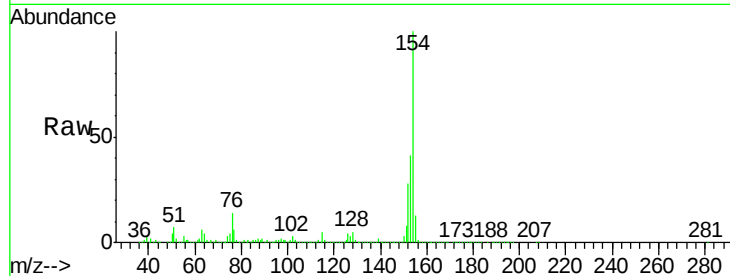
#40
1,1'-Biphenyl
Concen: 78.765 ng/ul
RT: 13.97 min Scan# 1817
Delta R.T. -0.00 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Instrument :
BNA_M
ClientSampleId :
DASP6

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.4	32.6	48.8
76	13.8	8.5	12.7

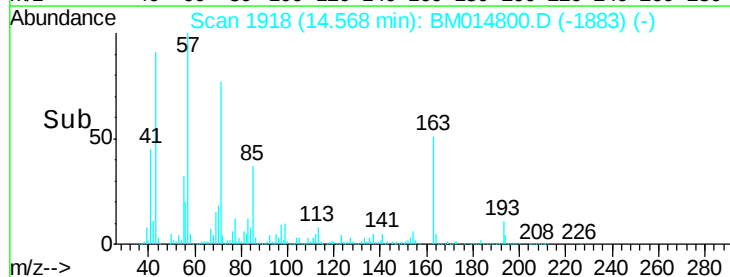
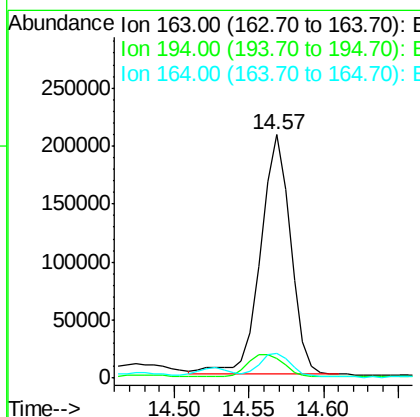
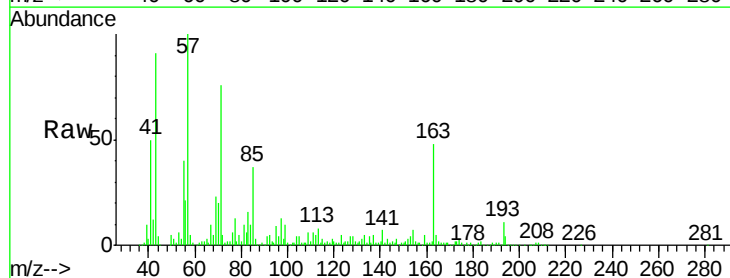
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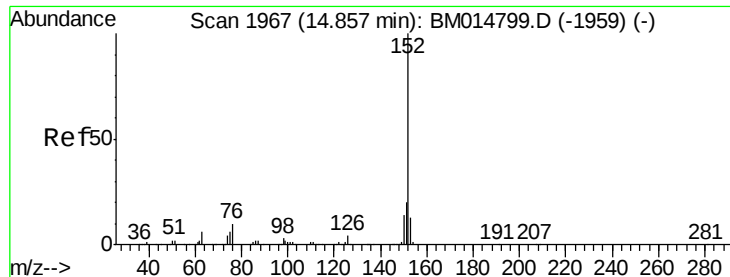
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#44
Dimethylphthalate
Concen: 4.591 ng/ul
RT: 14.57 min Scan# 1918
Delta R.T. 0.01 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Tgt Ion	Ratio	Lower	Upper
163	100		
194	8.0	3.5	5.3
164	10.2	8.2	12.4





#47

Acenaphthylene

Concen: 24.098 ng/ul

RT: 14.86 min Scan# 1968

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampleId :

DASP6

Tgt Ion:152 Resp: 1872324

Ion Ratio Lower Upper

152 100

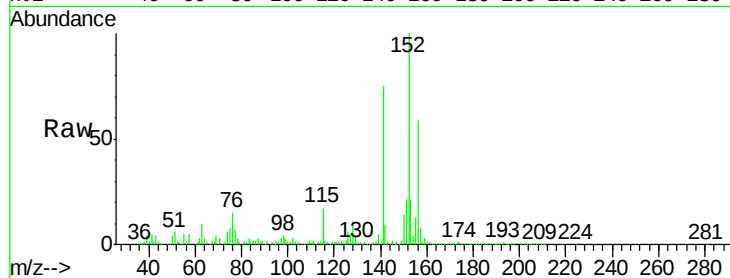
151 21.4 16.3 24.5

153 20.8 10.2 15.4#

Manual Integrations
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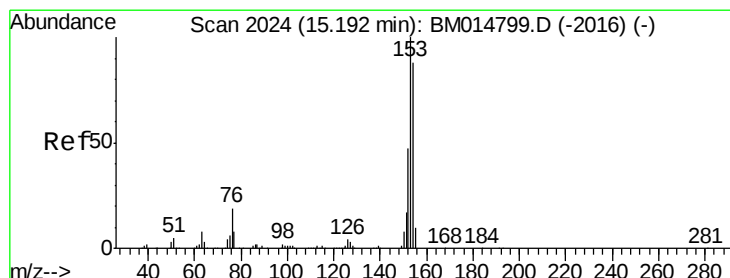
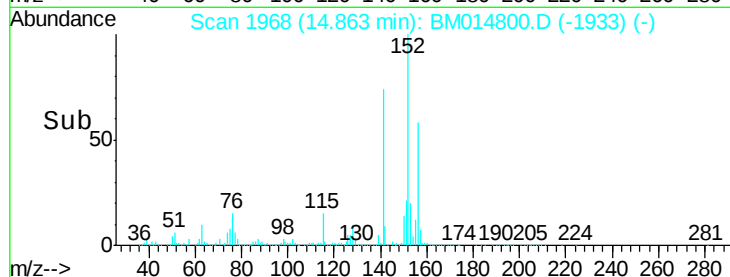
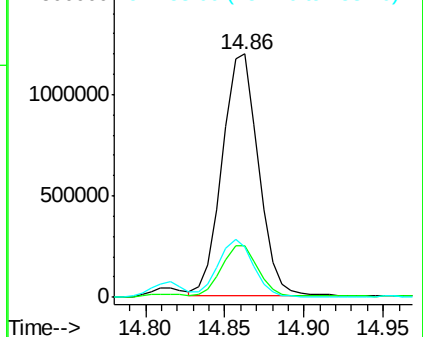
4/27/2018 7:32:21 PM



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: 373.693 ng/ul m

RT: 15.20 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

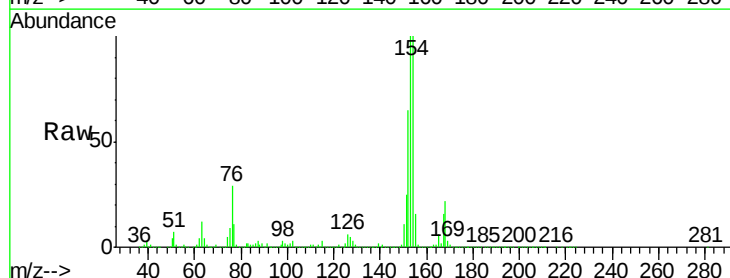
Tgt Ion:153 Resp:20633876

Ion Ratio Lower Upper

153 100

152 65.4 37.6 56.4#

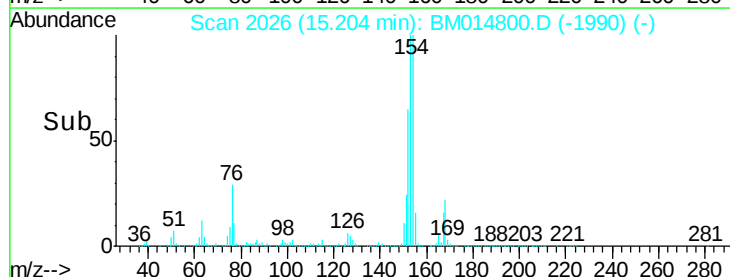
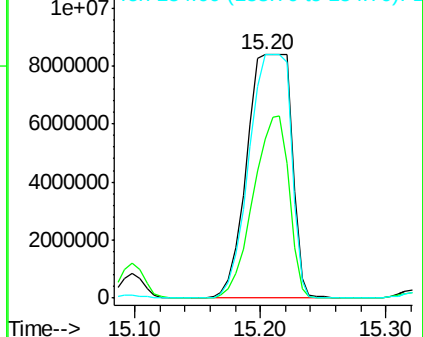
154 100.0 70.4 105.6

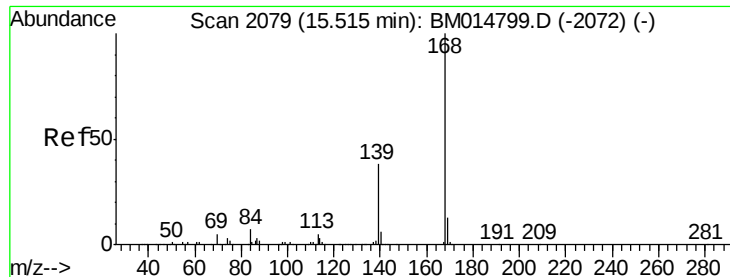


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 291.015 ng/ul m

RT: 15.52 min Scan# 2080

Delta R.T. -0.00 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampleId :

DASP6

Tgt Ion:168 Resp:22313667

Ion Ratio Lower Upper

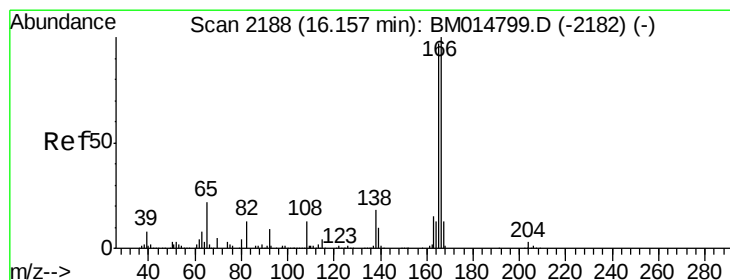
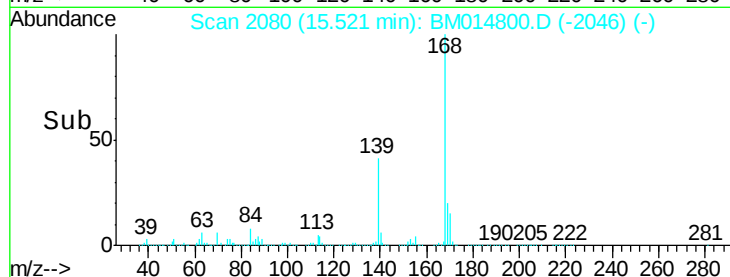
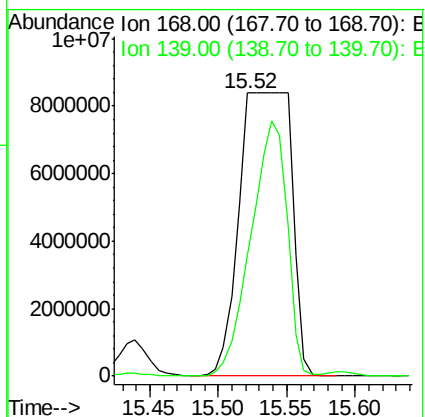
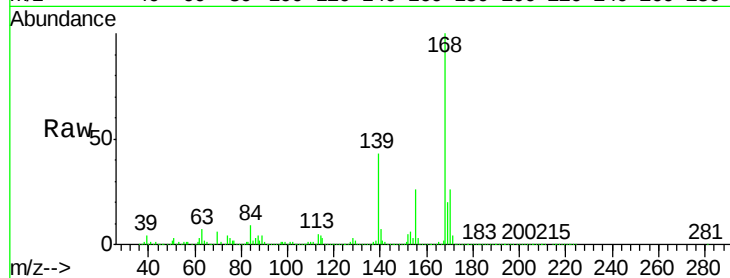
168 100

139 42.6 30.8 46.2

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#58

Fluorene

Concen: 480.932 ng/ul m

RT: 16.17 min Scan# 2190

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

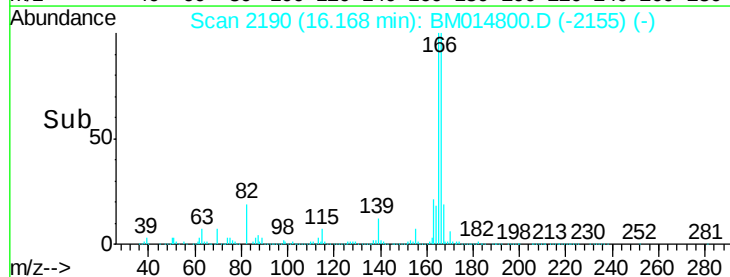
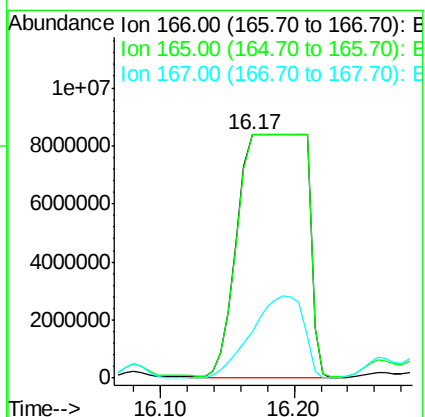
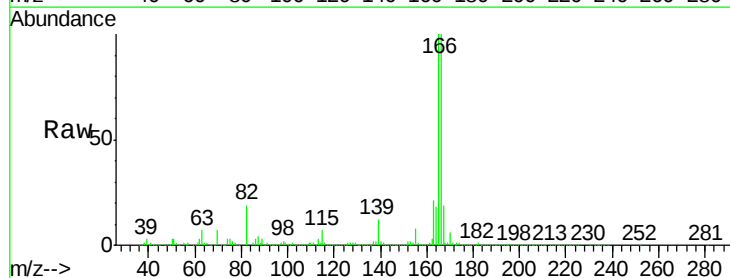
Tgt Ion:166 Resp:29775877

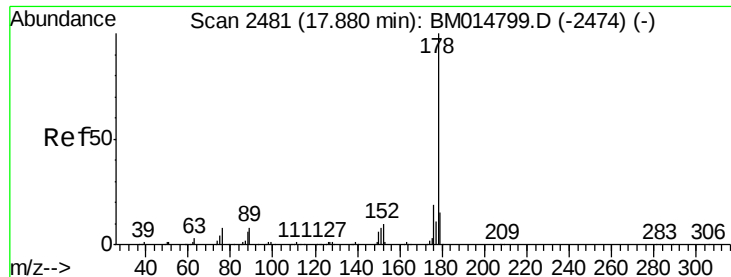
Ion Ratio Lower Upper

166 100

165 100.0 77.9 116.9

167 19.2 10.6 16.0#





#69

Phenanthrene

Concen: 755.612 ng/ul m

RT: 17.89 min Scan# 2482

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampled :

DASP6

Tgt Ion:178 Resp:63105213

Ion Ratio Lower Upper

178 100

179 20.5 12.6 19.0#

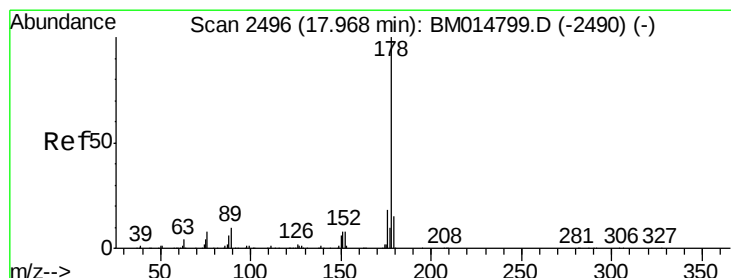
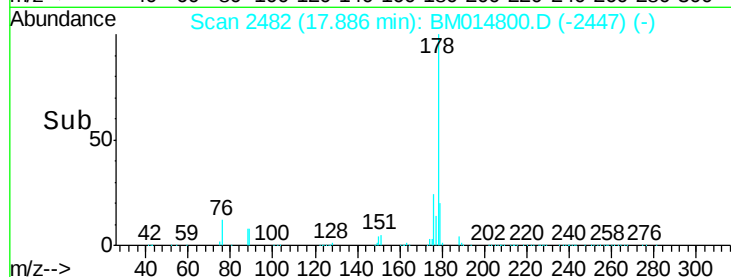
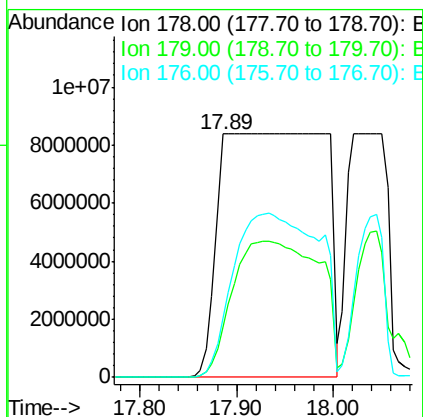
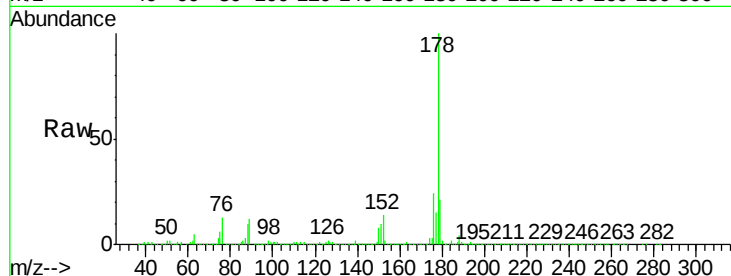
176 24.3 14.9 22.3#

Manual Integrations

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#71

Anthracene

Concen: 286.217 ng/ul m

RT: 18.02 min Scan# 2505

Delta R.T. 0.05 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

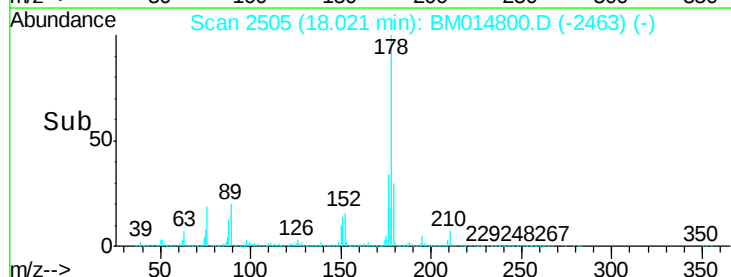
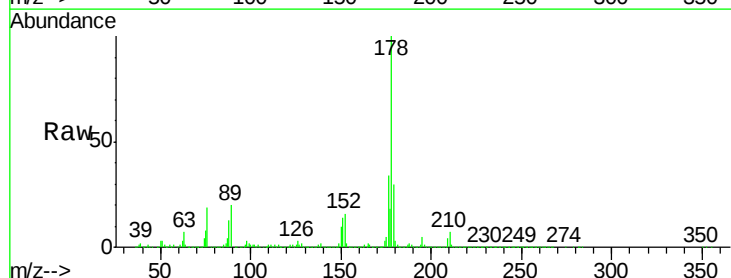
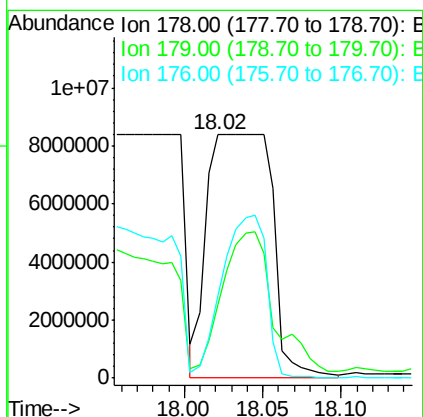
Tgt Ion:178 Resp:24258981

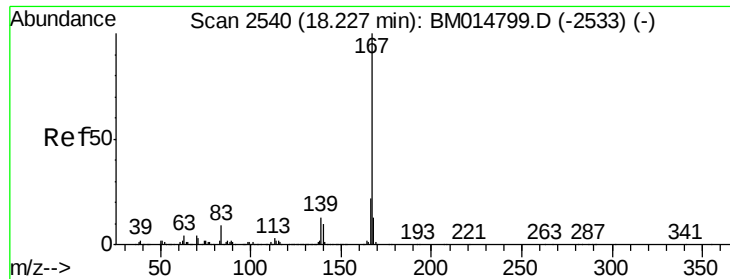
Ion Ratio Lower Upper

178 100

179 30.4 11.7 17.5#

176 33.9 14.6 21.8#





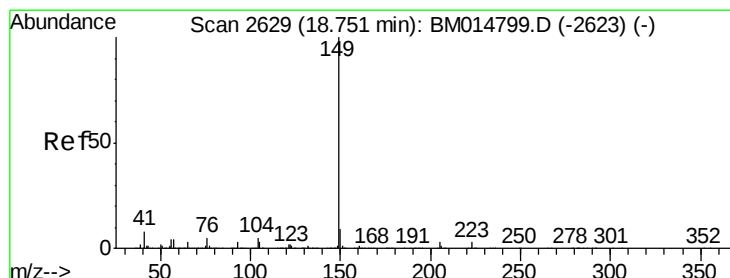
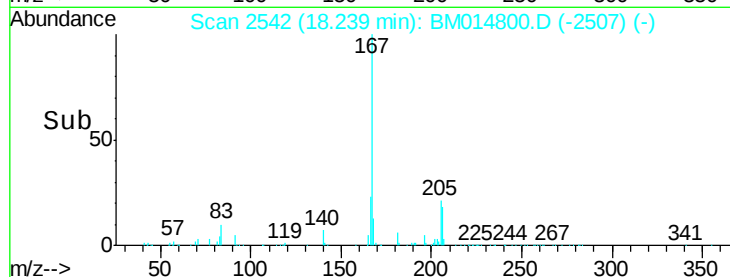
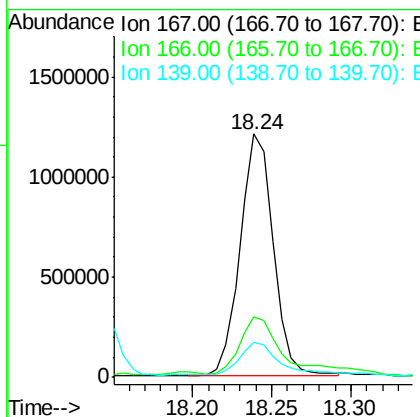
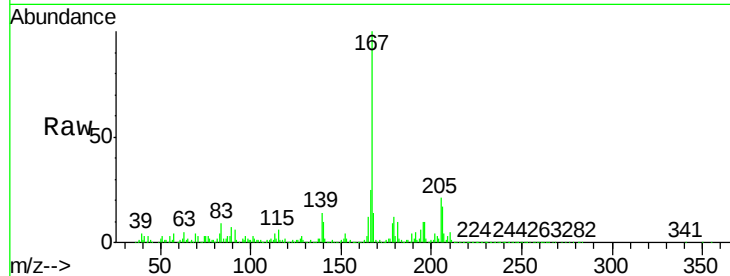
#72
 Carbazole
 Concen: 24.128 ng/ul
 RT: 18.24 min Scan# 2542
 Delta R.T. 0.01 min
 Lab File: BM014800.D
 Acq: 24 Apr 2018 05:40

Instrument :
 BNA_M
 ClientSampleId :
 DASP6

Tgt Ion:167 Resp: 1744563
 Ion Ratio Lower Upper
 167 100
 166 25.1 17.1 25.7
 139 14.1 10.0 15.0

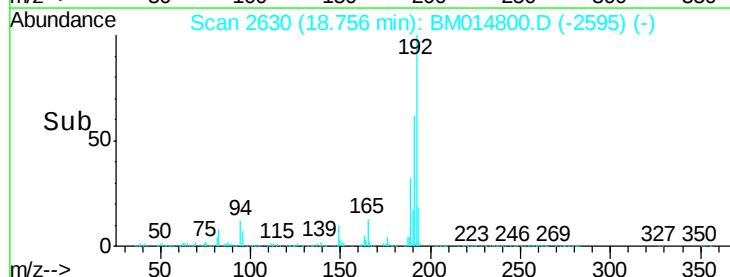
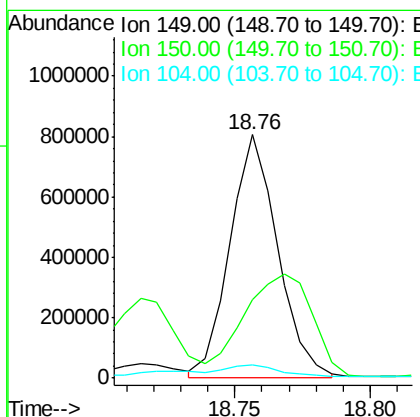
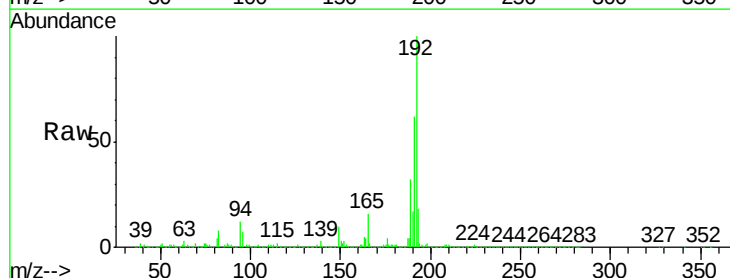
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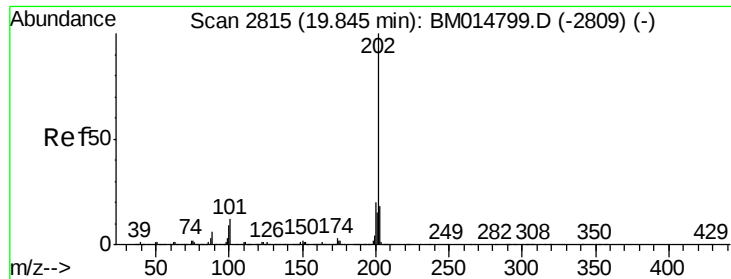
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#73
 Di-n-butylphthalate
 Concen: 11.335 ng/ul m
 RT: 18.76 min Scan# 2630
 Delta R.T. 0.01 min
 Lab File: BM014800.D
 Acq: 24 Apr 2018 05:40

Tgt Ion:149 Resp: 996661
 Ion Ratio Lower Upper
 149 100
 150 32.1 7.1 10.7#
 104 5.6 5.6 8.4





#74

Fluoranthene

Concen: 504.675 ng/ul m

RT: 19.85 min Scan# 2816

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampleId :

DASP6

Tgt Ion:202 Resp:45952589

Ion Ratio Lower Upper

202 100

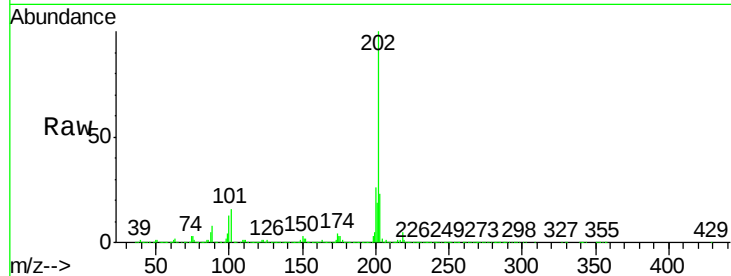
101 16.4 4.6 7.0#

100 12.5 3.4 5.2#

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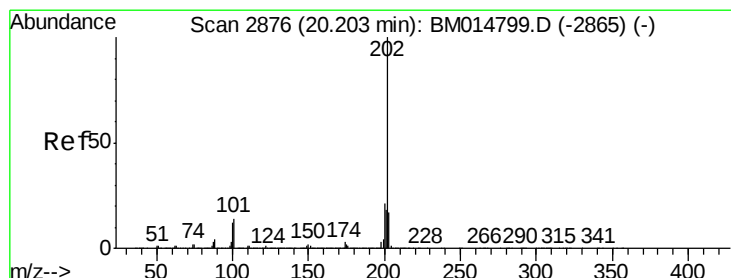
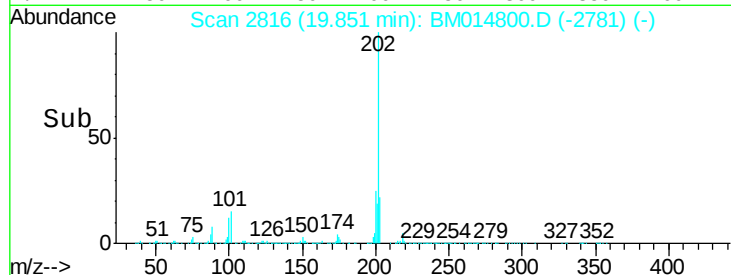
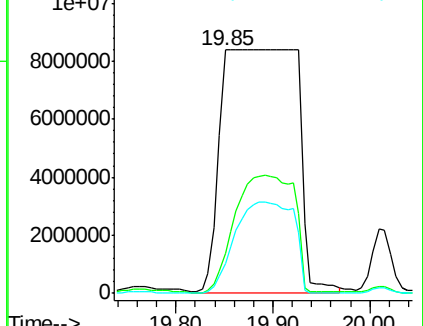
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 382.200 ng/ul m

RT: 20.22 min Scan# 2878

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

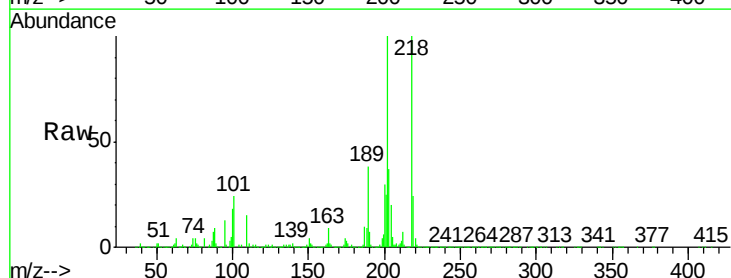
Tgt Ion:202 Resp:40503463

Ion Ratio Lower Upper

202 100

101 24.2 5.1 7.7#

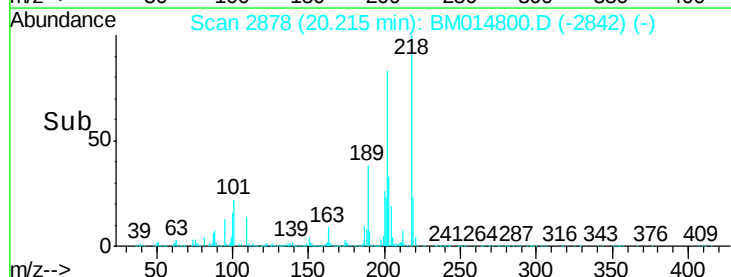
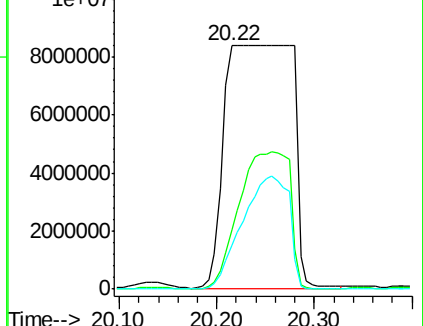
100 18.1 4.9 7.3#

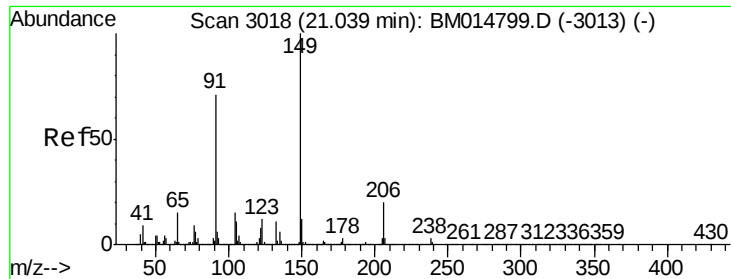


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





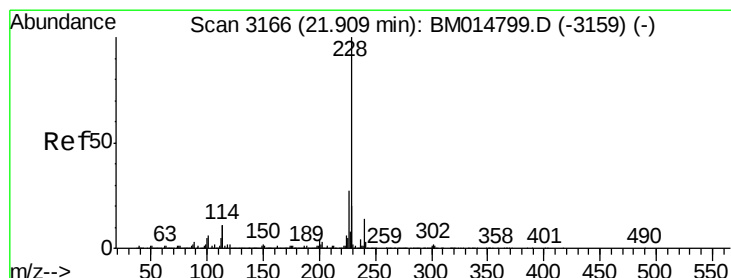
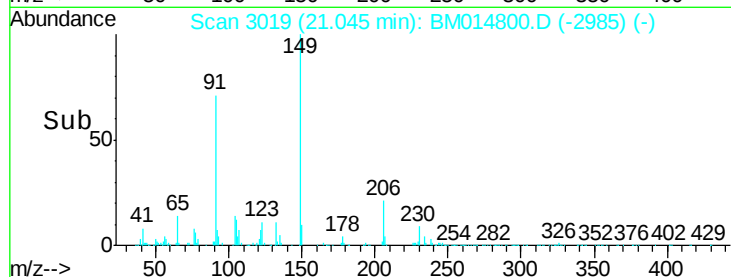
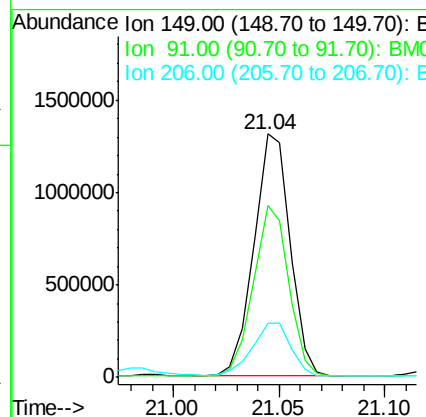
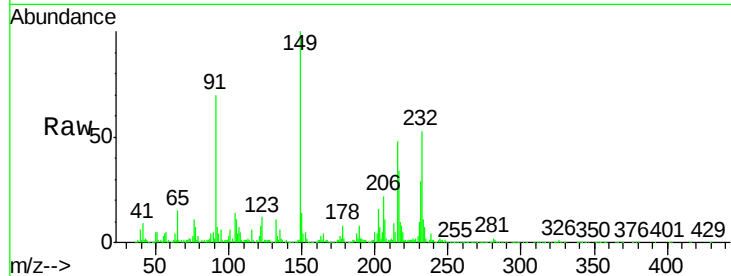
#78
Butylbenzylphthalate
Concen: 36.241 ng/ul
RT: 21.04 min Scan# 3019
Delta R.T. -0.00 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Instrument :
BNA_M
ClientSampleId :
DASP6

Tgt Ion:149 Resp: 1566867
Ion Ratio Lower Upper
149 100
91 70.4 62.7 94.1
206 22.5 20.8 31.2

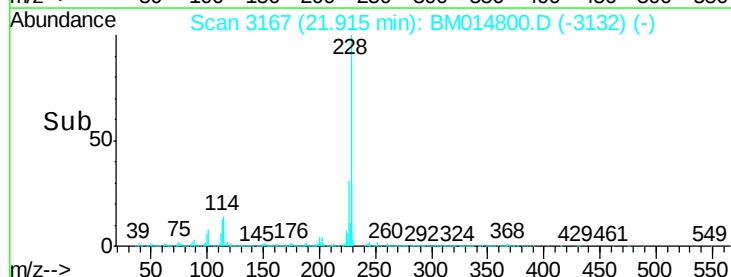
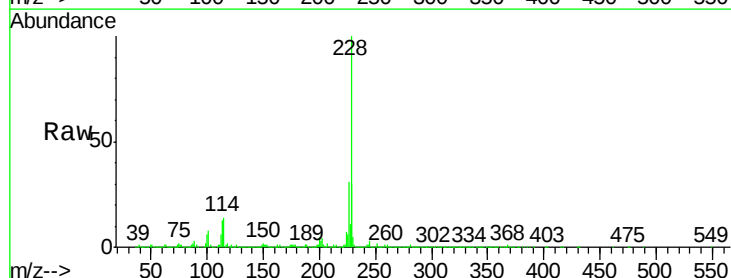
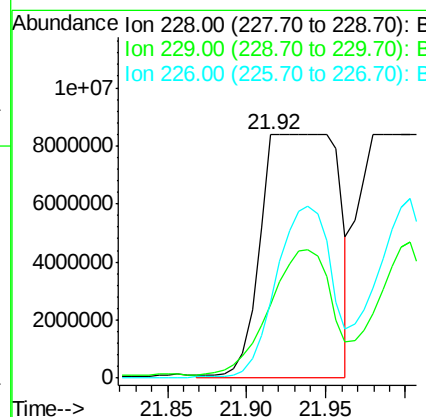
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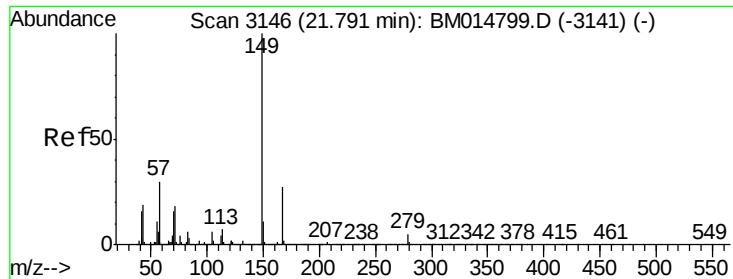
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#80
Benzo(a)anthracene
Concen: 268.038 ng/ul m
RT: 21.92 min Scan# 3167
Delta R.T. 0.01 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Tgt Ion:228 Resp:28429558
Ion Ratio Lower Upper
228 100
229 30.3 15.4 23.0#
226 31.4 21.4 32.0





#81

Bis(2-ethylhexyl)phthalate

Concen: 213.828 ng/ul

RT: 21.80 min Scan# 3147

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampled :

DASP6

Tgt Ion:149 Resp:13569798

Ion Ratio Lower Upper

149 100

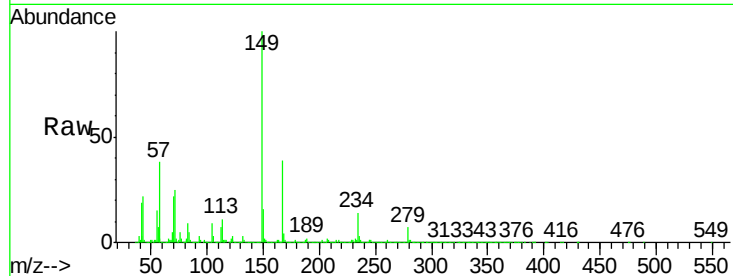
167 38.6 22.8 34.2#

279 7.1 4.9 7.3

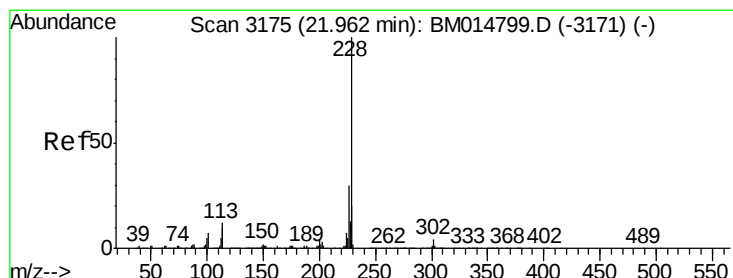
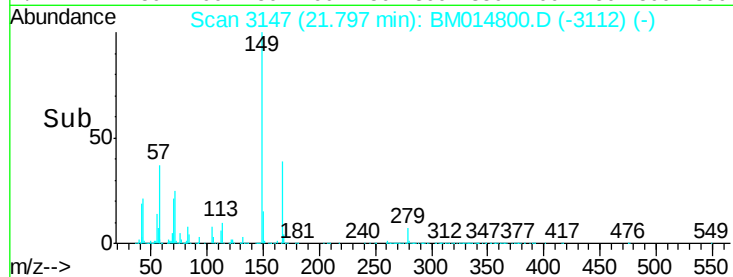
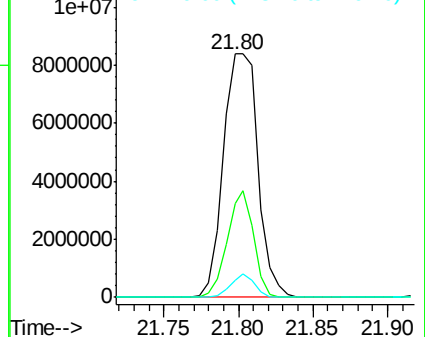
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 247.465 ng/ul m

RT: 21.98 min Scan# 3178

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

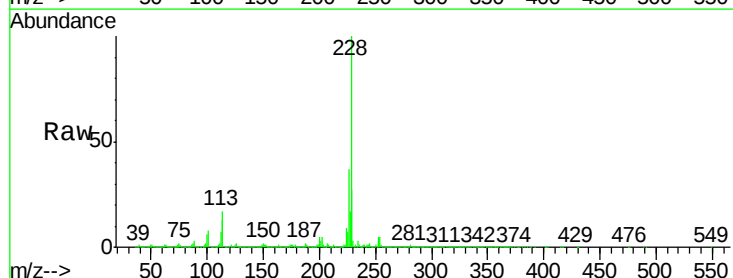
Tgt Ion:228 Resp:24571605

Ion Ratio Lower Upper

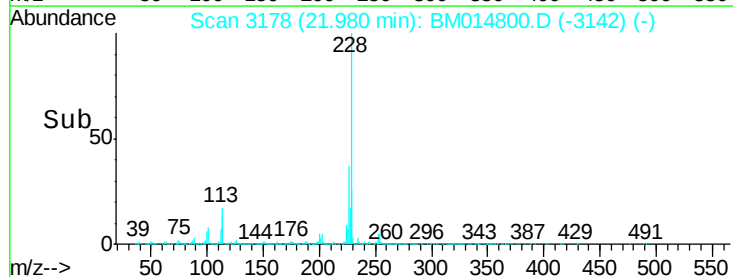
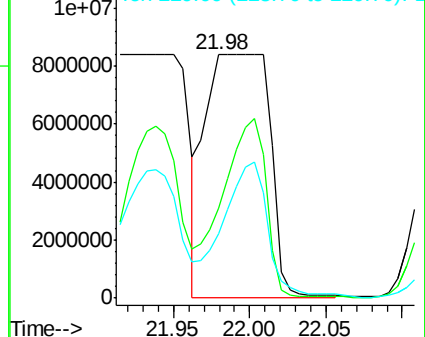
228 100

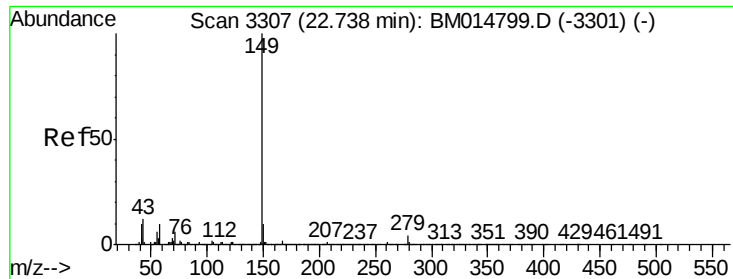
226 36.9 23.4 35.2#

229 26.6 15.5 23.3#



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





#84

Di-n-octyl phthalate

Concen: 13.045 ng/ul m

RT: 22.76 min Scan# 3310

Delta R.T. 0.01 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampled :

DASP6

Tgt Ion:149 Resp: 1556089

Ion Ratio Lower Upper

149 100

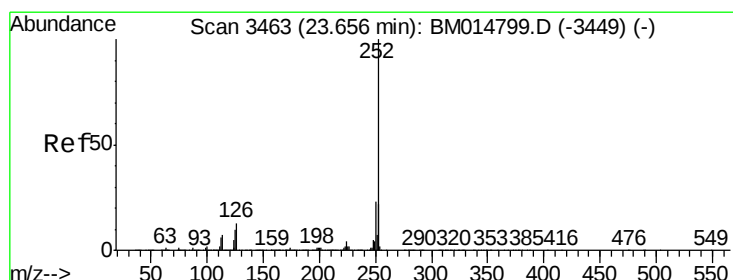
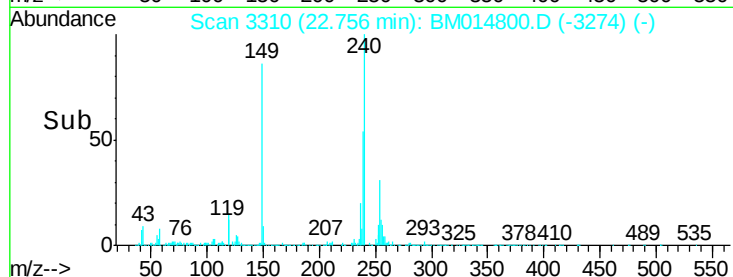
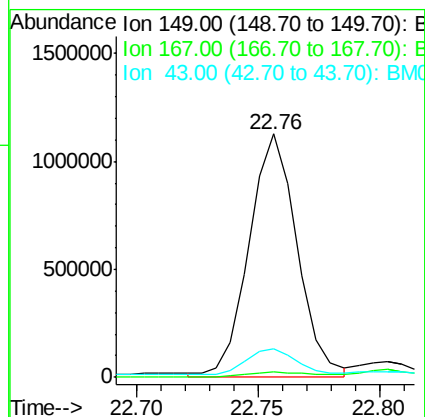
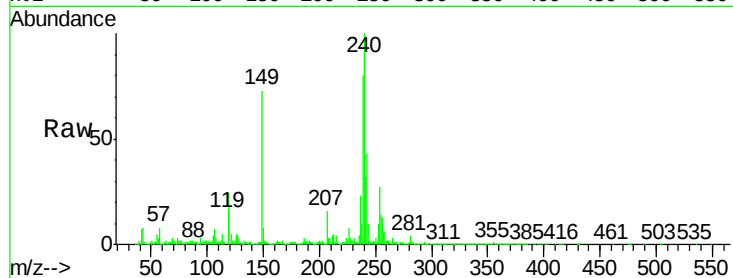
167 2.1 1.3 1.9#

43 11.6 7.3 10.9#

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#85

Benzo(b)fluoranthene

Concen: 247.433 ng/ul m

RT: 23.69 min Scan# 3468

Delta R.T. 0.03 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

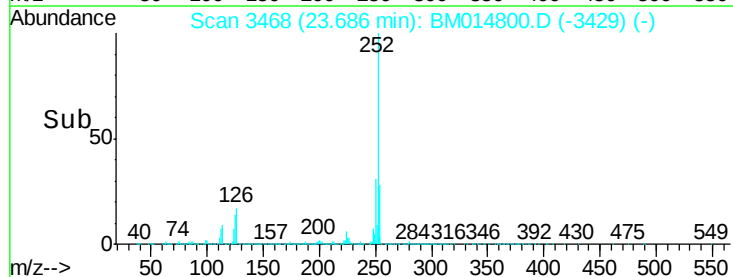
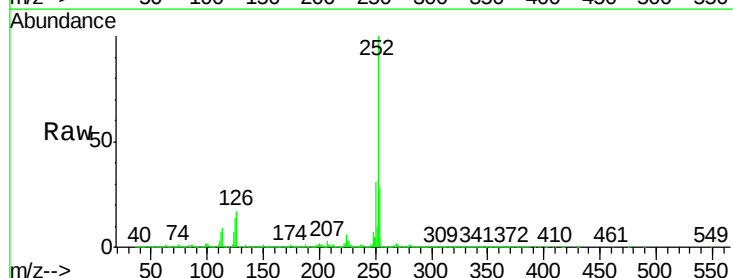
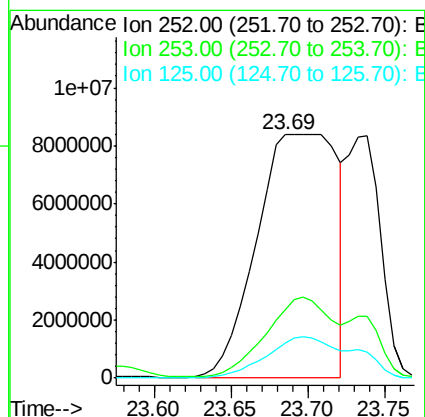
Tgt Ion:252 Resp:30250344

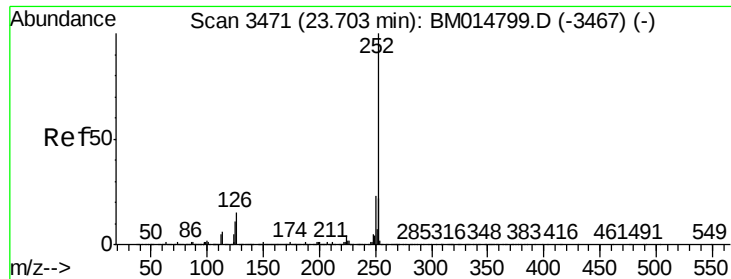
Ion Ratio Lower Upper

252 100

253 28.3 17.9 26.9#

125 14.4 3.6 5.4#





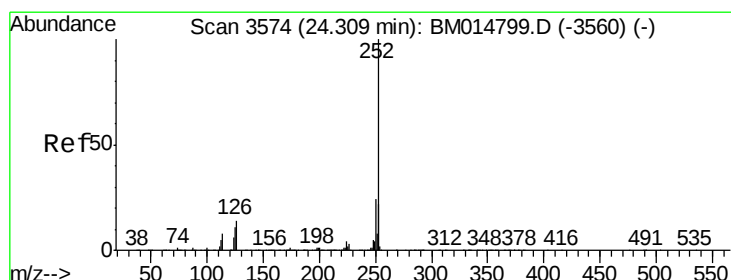
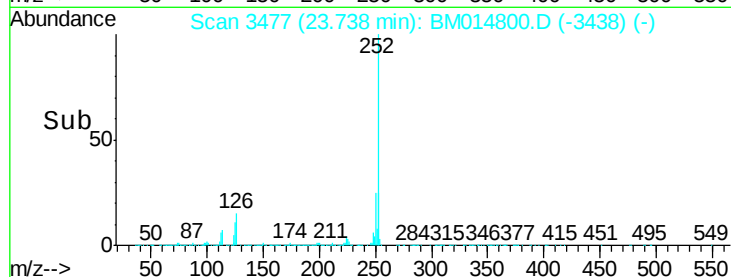
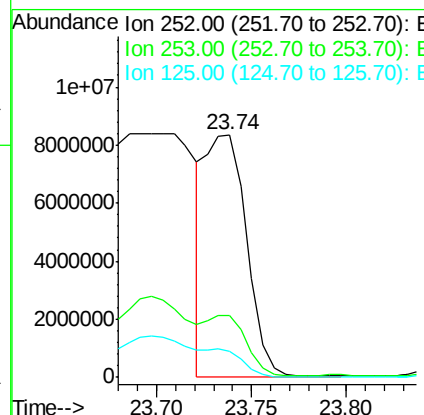
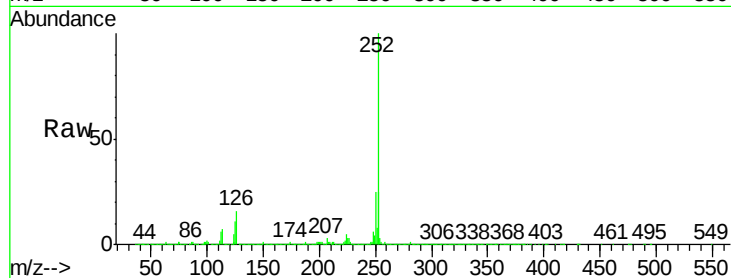
#86
Benzo(k)fluoranthene
Concen: 108.682 ng/ul m
RT: 23.74 min Scan# 3477
Delta R.T. 0.03 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Instrument :
BNA_M
ClientSampleId :
DASP6

Tgt Ion:252 Resp:12776908
Ion Ratio Lower Upper
252 100
253 25.5 17.1 25.7
125 11.0 3.4 5.2#

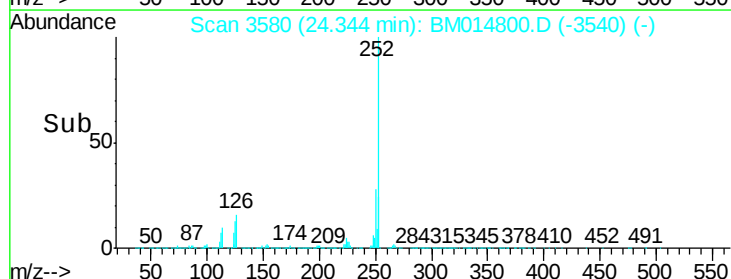
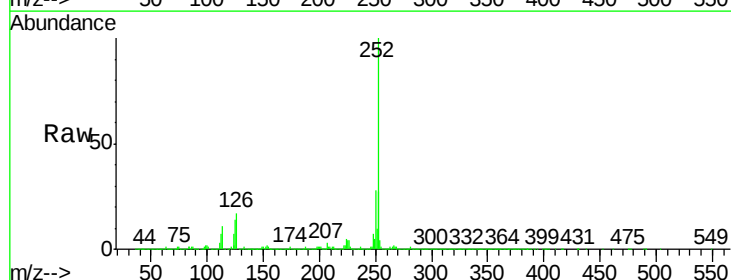
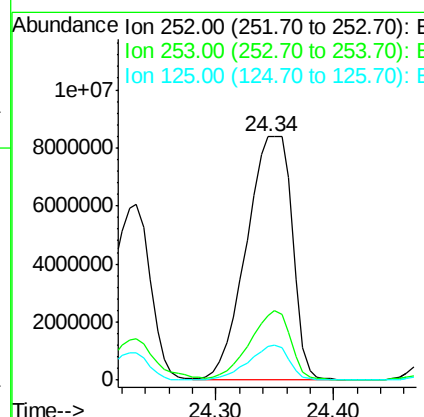
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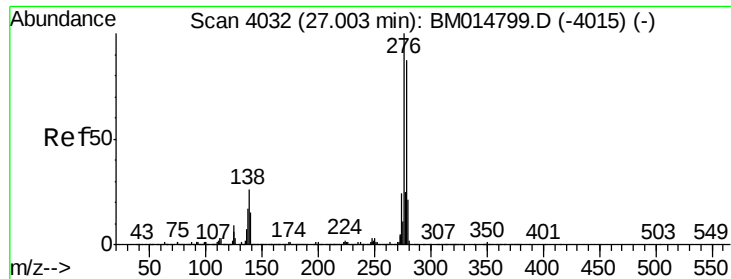
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#88
Benzo(a)pyrene
Concen: 195.439 ng/ul m
RT: 24.34 min Scan# 3580
Delta R.T. 0.04 min
Lab File: BM014800.D
Acq: 24 Apr 2018 05:40

Tgt Ion:252 Resp:22665211
Ion Ratio Lower Upper
252 100
253 26.6 18.2 27.2
125 13.7 4.0 6.0#





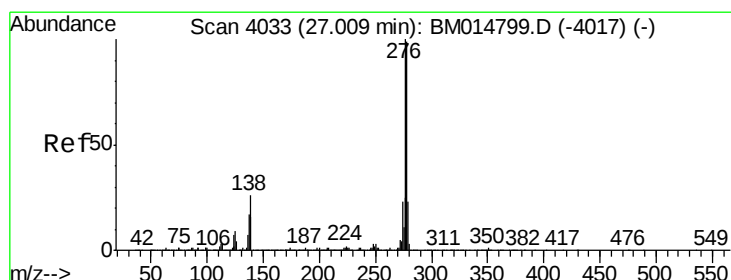
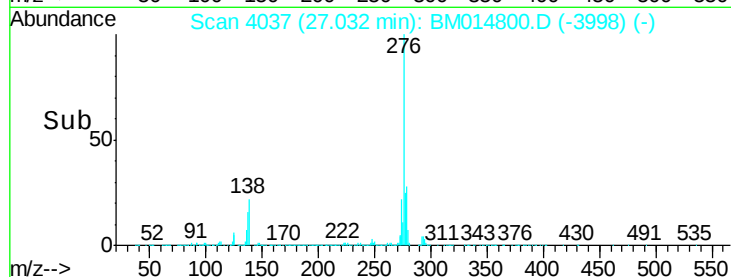
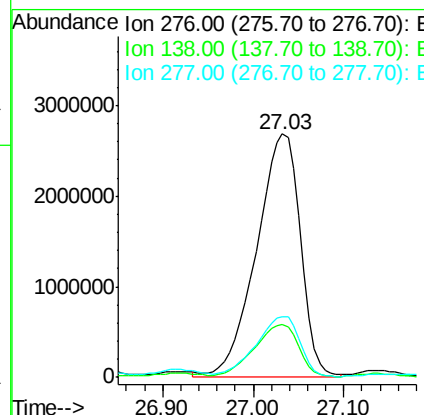
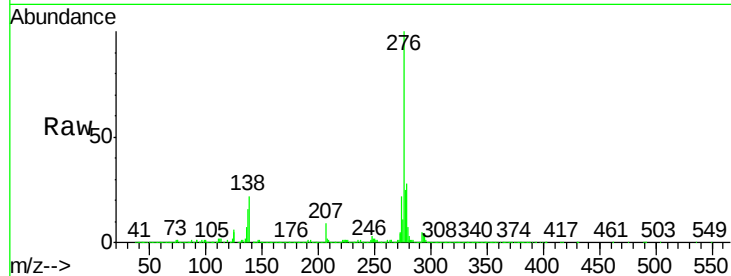
#89
 Indeno(1,2,3-cd)pyrene
 Concen: 64.693 ng/ul m
 RT: 27.03 min Scan# 4037
 Delta R.T. 0.03 min
 Lab File: BM014800.D
 Acq: 24 Apr 2018 05:40

Instrument :
 BNA_M
 ClientSampleId :
 DASP6

Tgt Ion:276 Resp: 9076188
 Ion Ratio Lower Upper
 276 100
 138 21.8 9.3 13.9#
 277 25.0 19.9 29.9

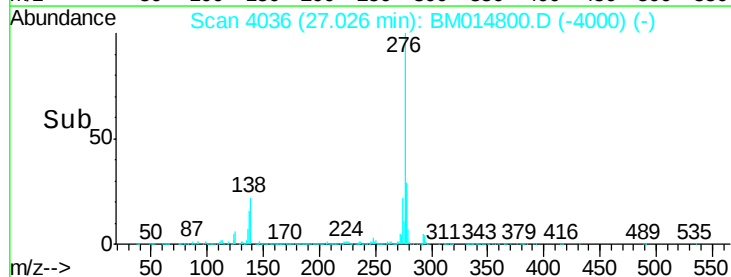
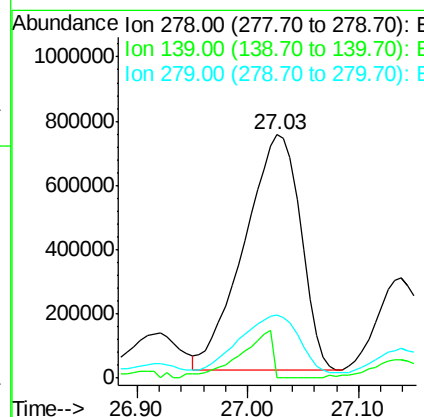
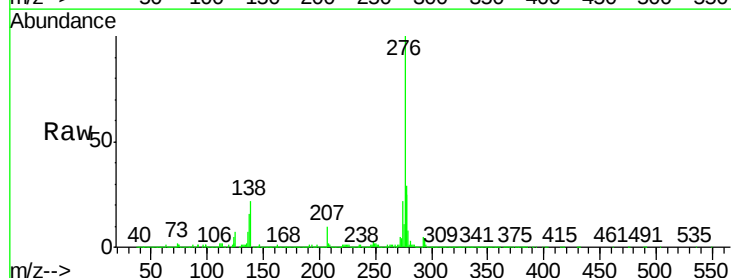
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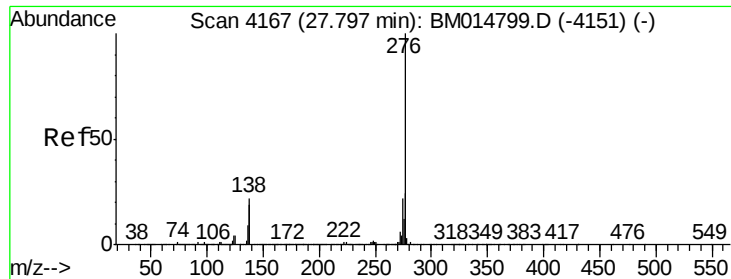
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#90
 Dibenzo(a,h)anthracene
 Concen: 21.935 ng/ul m
 RT: 27.03 min Scan# 4036
 Delta R.T. 0.01 min
 Lab File: BM014800.D
 Acq: 24 Apr 2018 05:40

Tgt Ion:278 Resp: 2591079
 Ion Ratio Lower Upper
 278 100
 139 0.0 5.8 8.8#
 279 25.9 18.6 27.8





#91

Benzo(g,h,i)perylene

Concen: 61.790 ng/ul m

RT: 27.84 min Scan# 4174

Delta R.T. 0.04 min

Lab File: BM014800.D

Acq: 24 Apr 2018 05:40

Instrument :

BNA_M

ClientSampleId :

DASP6

Tgt Ion:276 Resp: 7131706

Ion Ratio Lower Upper

276 100

138 22.1 8.5 12.7#

277 24.7 18.6 28.0

Manual Integrations

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