

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
 Data File : BM014791.D
 Acq On : 24 Apr 2018 00:16
 Operator : SJ/JU
 Sample : J2431-08
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 DASN9

Manual Integrations
 APPROVED

Sohil
 4/24/2018 7:13:33 PM

Quant Time: Apr 24 18:27:39 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	393947	20.00	ng/ul	0.00
18) Naphthalene-d8	11.37	136	1610452	20.00	ng/ul	0.00
35) Acenaphthene-d10	15.13	164	832483	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.85	188	1711856	20.00	ng/ul	0.01
75) Chrysene-d12	21.93	240	1766243	20.00	ng/ul	0.00
83) Perylene-d12	24.42	264	1798602	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.66	96	46640	5.17	ng/uL	0.00
5) Phenol-d5	7.65	99	868677	28.52	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.83	67	592408	30.33	ng/ul	0.00
9) 2-Chlorophenol-d4	8.05	132	718099	28.19	ng/ul	0.00
13) 4-Methylphenol-d8	9.22	113	658791	27.13	ng/ul	0.00
19) Nitrobenzene-d5	9.71	128	338990	29.11	ng/ul	0.00
22) 2-Nitrophenol-d4	10.44	143	360056	31.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.98	165	630834	26.78	ng/ul	0.00
29) 4-Chloroaniline-d4	11.49	131	843306	36.27	ng/ul	0.00
43) Dimethylphthalate-d6	14.52	166	1802955	27.74	ng/ul	0.00
46) Acenaphthylene-d8	14.83	160	2214060	27.59	ng/ul	0.00
51) 4-Nitrophenol-d4	15.29	143	266372	22.09	ng/ul	0.00
57) Fluorene-d10	16.10	176	1550125	27.43	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.22	200	156588	16.90	ng/ul	0.02
70) Anthracene-d10	17.96	188	2227728	27.92	ng/ul	0.02
76) Pyrene-d10	20.18	212	2468166	29.54	ng/ul	0.00
87) Benzo(a)pyrene-d12	24.26	264	2667684	30.19	ng/ul	0.00

Target Compounds

					Ovalue	
6) Phenol	7.68	94	53403	1.782	ng/ul#	84
28) Naphthalene	11.42	128	178865	2.279	ng/ul#	93
34) 2-Methylnaphthalene	12.99	142	761238	13.968	ng/ul	97
40) 1,1'-Biphenyl	13.97	154	973222	14.538	ng/ul#	97
44) Dimethylphthalate	14.56	163	335219	5.336	ng/ul	99
47) Acenaphthylene	14.86	152	355098	4.568	ng/ul#	88
49) Acenaphthene	15.20	153	5825148	105.433	ng/ul	98
53) Dibenzofuran	15.52	168	8682580	113.170	ng/ul	99
58) Fluorene	16.17	166	14274478	230.418	ng/ul#	97
69) Phenanthrene	17.89	178	32130215m	349.492	ng/ul	
71) Anthracene	17.99	178	13427354	143.914	ng/ul#	89
72) Carbazole	18.23	167	299399	3.762	ng/ul	92
74) Fluoranthene	19.85	202	23471357m	234.170	ng/ul	
77) Pyrene	20.21	202	21789991m	211.148	ng/ul	
78) Butylbenzylphthalate	21.04	149	160261	3.807	ng/ul	93
80) Benzo(a)anthracene	21.92	228	11448060	110.838	ng/ul	94
81) Bis(2-ethylhexyl)phthalate	21.79	149	4903846	79.352	ng/ul#	98
82) Chrysene	21.97	228	9500760m	98.258	ng/ul	
84) Di-n-octyl phthalate	22.75	149	254341	2.459	ng/ul#	87
85) Benzo(b)fluoranthene	23.67	252	7308953	68.935	ng/ul#	96
86) Benzo(k)fluoranthene	23.71	252	2313816m	22.694	ng/ul	
88) Benzo(a)pyrene	24.32	252	4708086	46.812	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	27.00	276	1658998	13.635	ng/ul#	90

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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	27.00	278	481299	4.698	ng/ul#	92
91) Benzo(g,h,i)perylene	27.80	276	1183448	11.823	ng/ul#	91

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

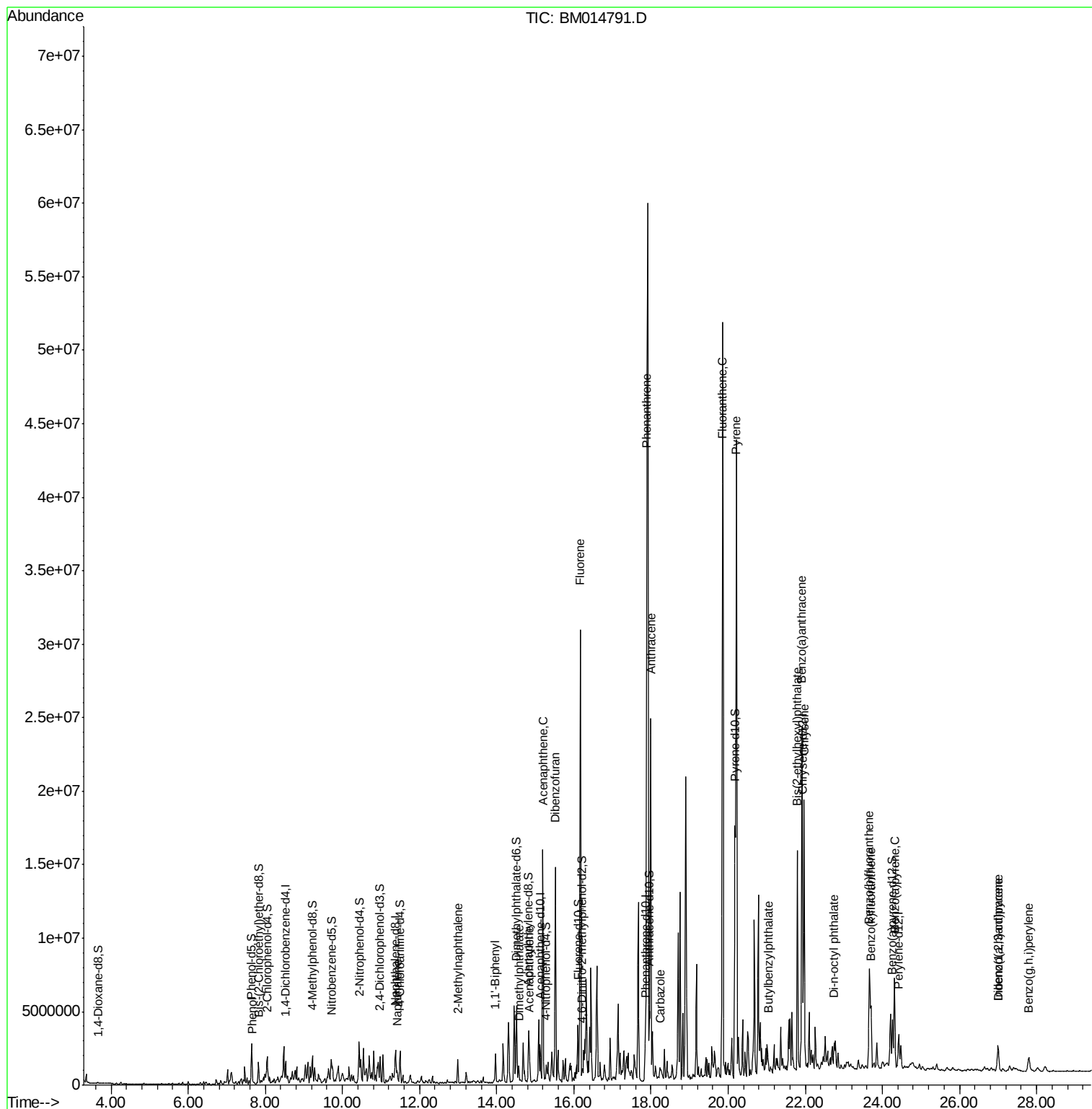
Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
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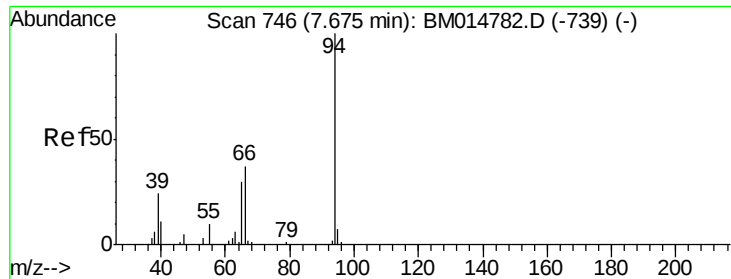
Instrument :
BNA_M
ClientSampleId :
DASN9

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Quant Title : SVOA CALIBRATION
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#6

Phenol

Concen: 1.782 ng/ul

RT: 7.68 min Scan# 746

Delta R.T. 0.00 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampleId :

DASN9

Tot Ion: 94 Resp: 53403

Ion Ratio Lower Upper

94 100

65 33.9 28.2 42.4

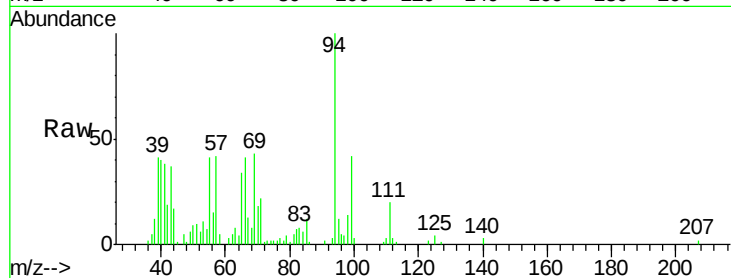
66 41.4 47.2 70.8#

Manual Integrations

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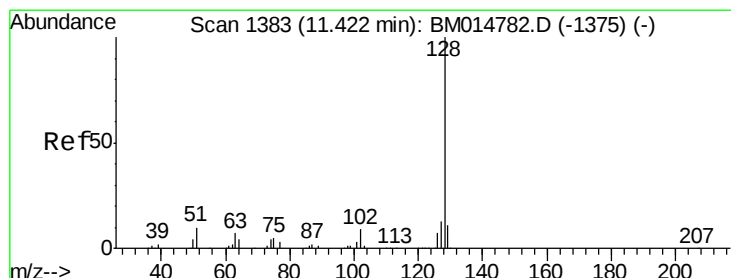
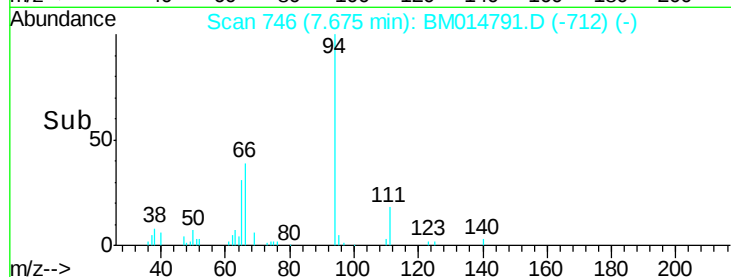
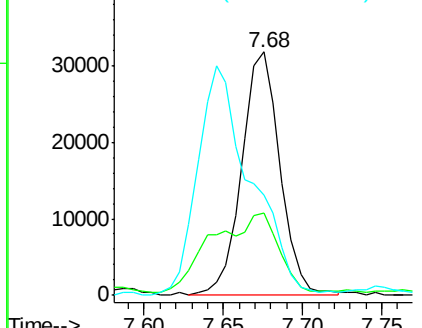
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Abundance Ion 94.00 (93.70 to 94.70): BM014782.D (-739) (-)

Ion 65.00 (64.70 to 65.70): BM014782.D (-739) (-)

Ion 66.00 (65.70 to 66.70): BM014782.D (-739) (-)



#28

Naphthalene

Concen: 2.279 ng/ul

RT: 11.42 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

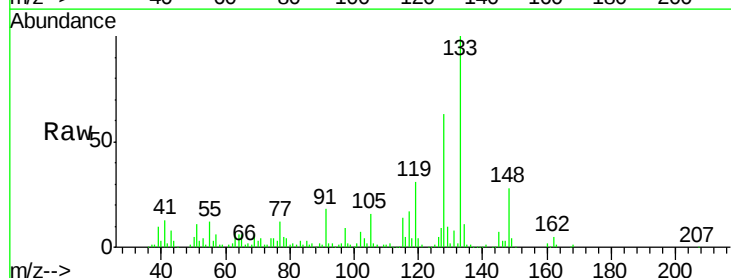
Tgt Ion: 128 Resp: 178865

Ion Ratio Lower Upper

128 100

129 15.3 8.8 13.2#

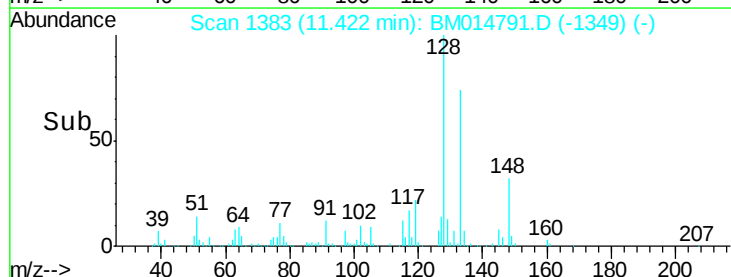
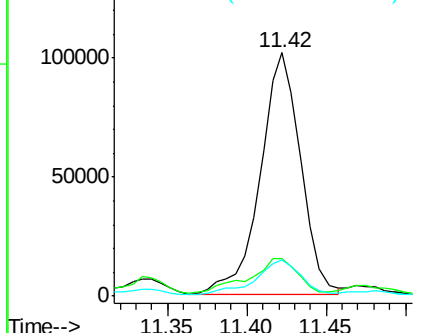
127 14.9 10.6 16.0

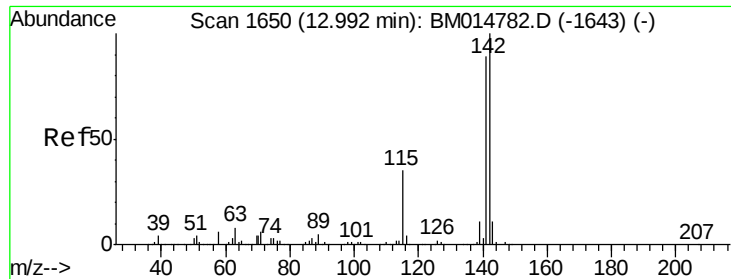


Abundance Ion 128.00 (127.70 to 128.70): BM014782.D (-1375) (-)

Ion 129.00 (128.70 to 129.70): BM014782.D (-1375) (-)

Ion 127.00 (126.70 to 127.70): BM014782.D (-1375) (-)





#34

2-Methylnaphthalene

Concen: 13.968 ng/ul

RT: 12.99 min Scan# 1650

Delta R.T. 0.00 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampled :

DASN9

Tot Ion:142 Resp: 761238

Ion Ratio Lower Upper

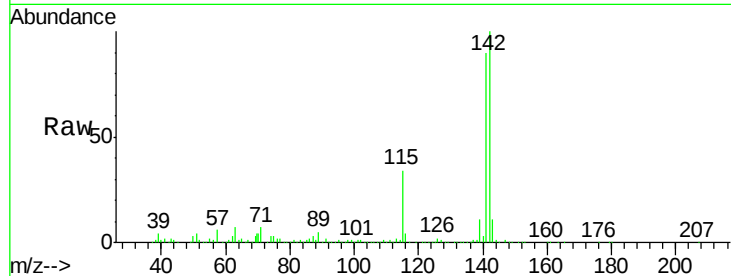
142 100

141 89.7 74.1 111.1

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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.99

500000

400000

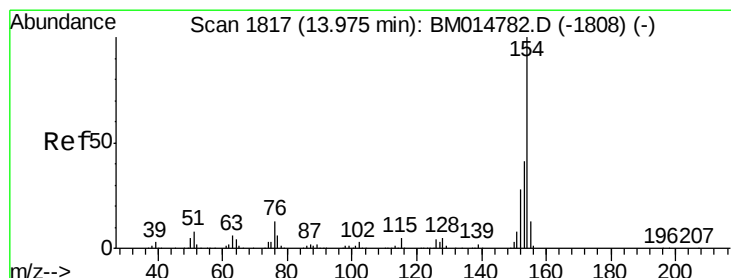
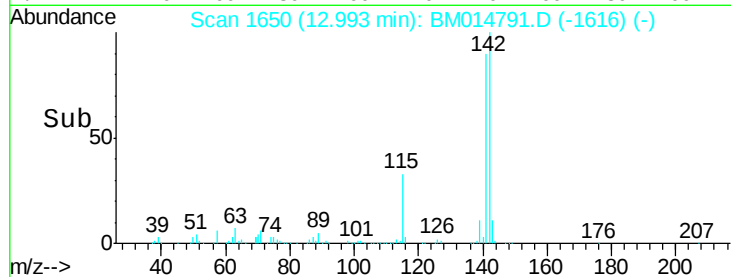
300000

200000

100000

0

Time-->



#40

1,1'-Biphenyl

Concen: 14.538 ng/ul

RT: 13.97 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

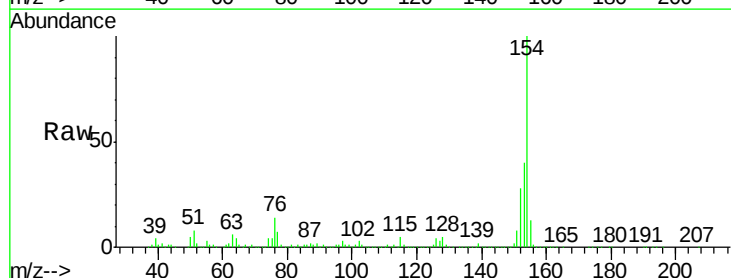
Tgt Ion:154 Resp: 973222

Ion Ratio Lower Upper

154 100

153 40.1 32.6 48.8

76 14.2 8.5 12.7#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM0

13.97

800000

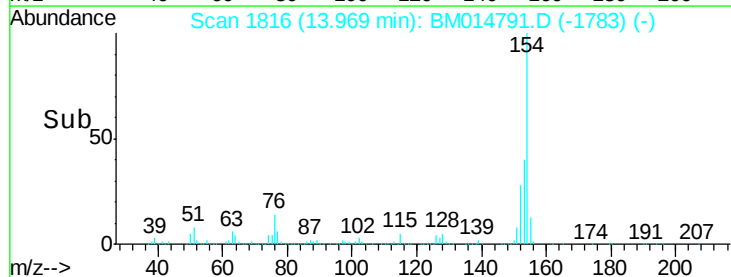
600000

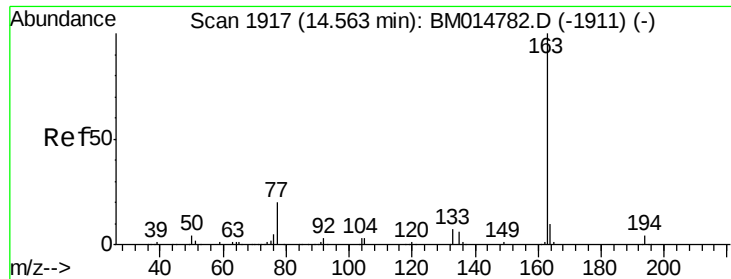
400000

200000

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Time-->





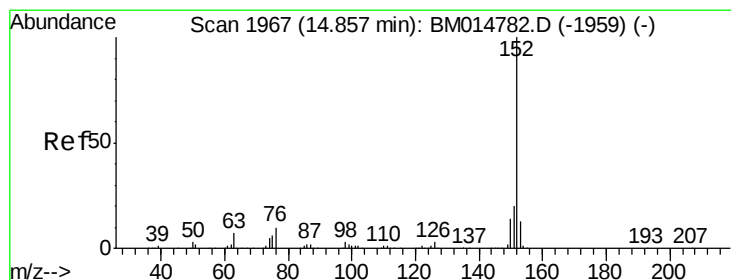
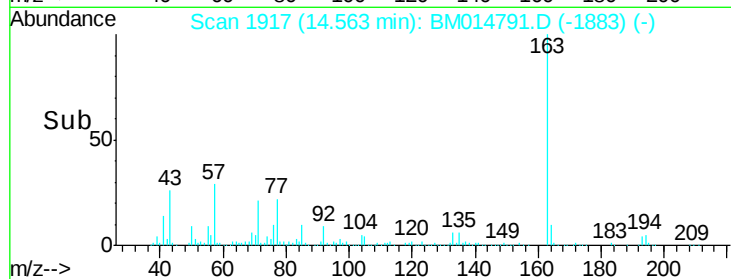
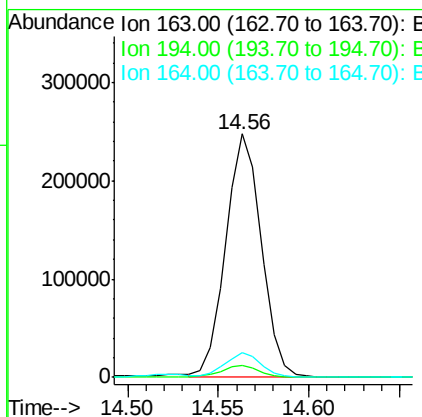
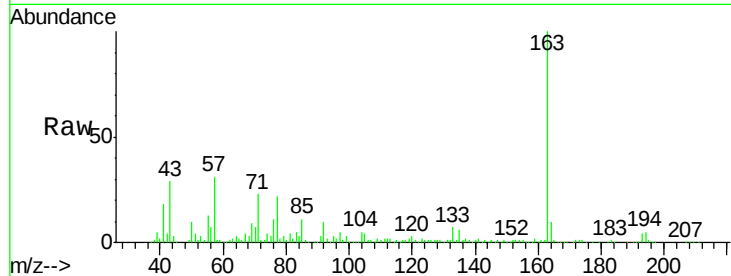
#44
Dimethylphthalate
Concen: 5.336 ng/ul
RT: 14.56 min Scan# 1917
Delta R.T. 0.00 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Instrument :
BNA_M
ClientSampleId :
DASN9

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.5	5.3
164	10.0	8.2	12.4

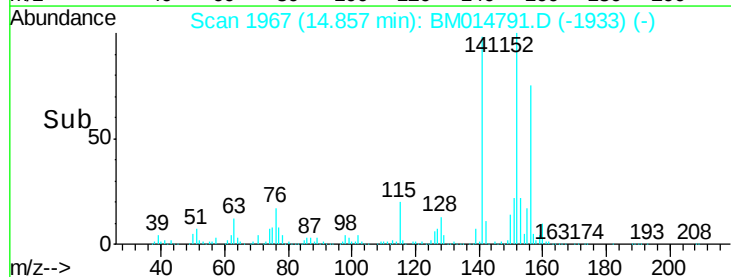
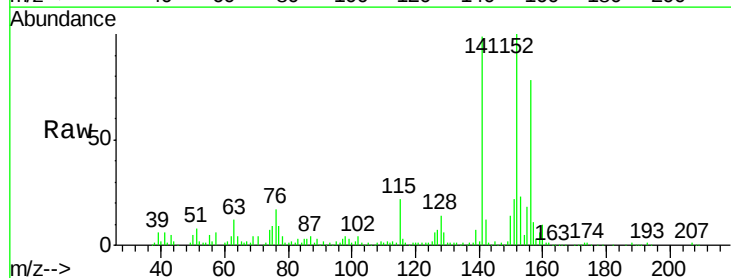
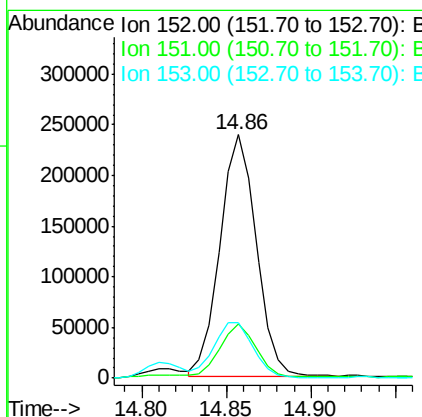
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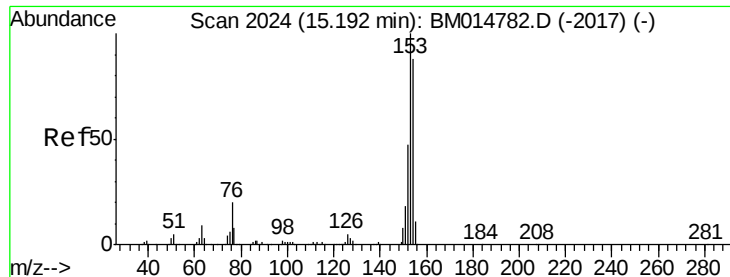
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#47
Acenaphthylene
Concen: 4.568 ng/ul
RT: 14.86 min Scan# 1967
Delta R.T. 0.00 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.2	16.3	24.5
153	22.8	10.2	15.4





#49

Acenaphthene

Concen: 105.433 ng/ul

RT: 15.20 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampled :

DASN9

Tot Ion:153 Resp: 5825148

Ion Ratio Lower Upper

153 100

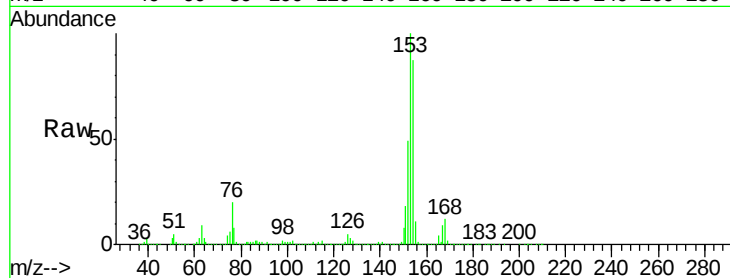
152 49.2 37.6 56.4

154 86.8 70.4 105.6

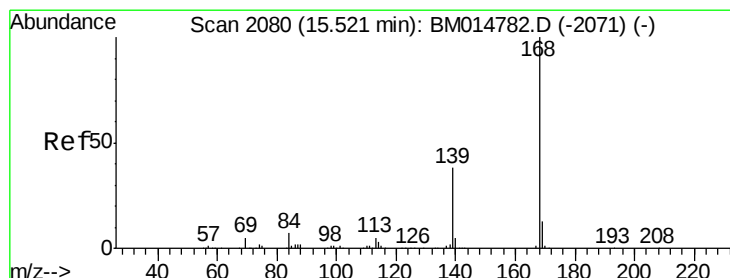
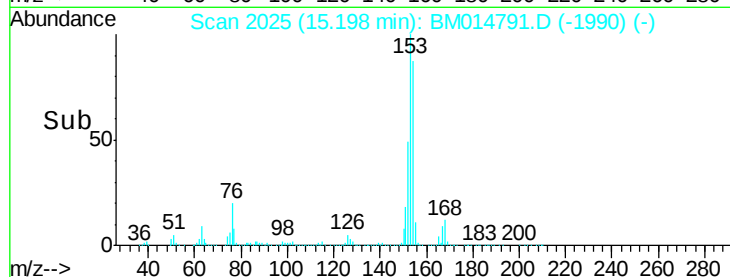
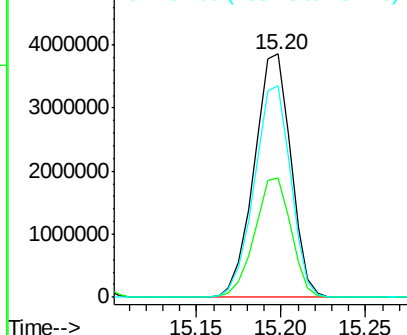
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Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 113.170 ng/ul

RT: 15.52 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BM014791.D

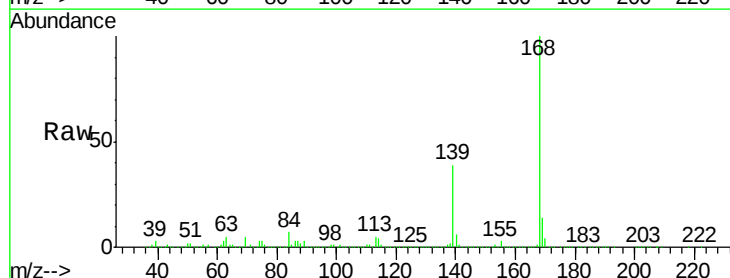
Acq: 24 Apr 2018 00:16

Tgt Ion:168 Resp: 8682580

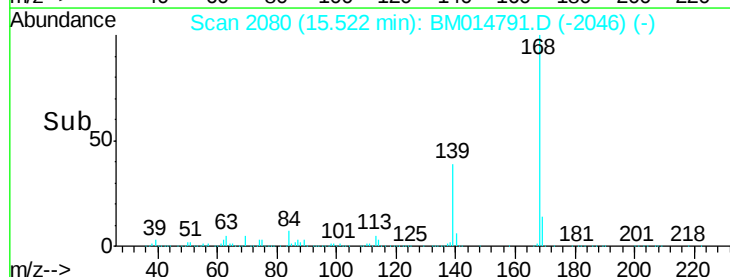
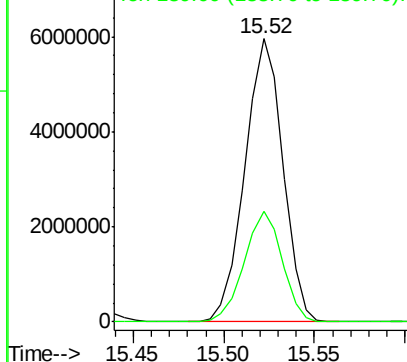
Ion Ratio Lower Upper

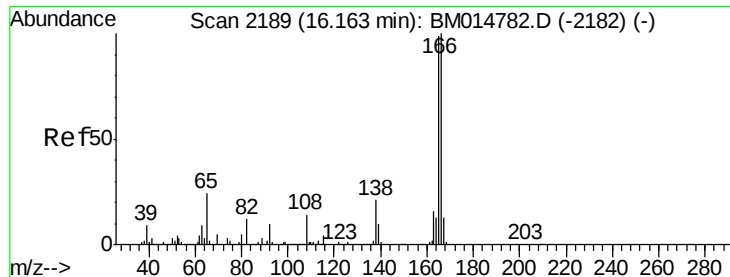
168 100

139 39.1 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: 230.418 ng/ul

RT: 16.17 min Scan# 2190

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampleId :

DASN9

Tot Ion:166 Resp:14274478

Ion Ratio Lower Upper

166 100

165 100.0 77.9 116.9

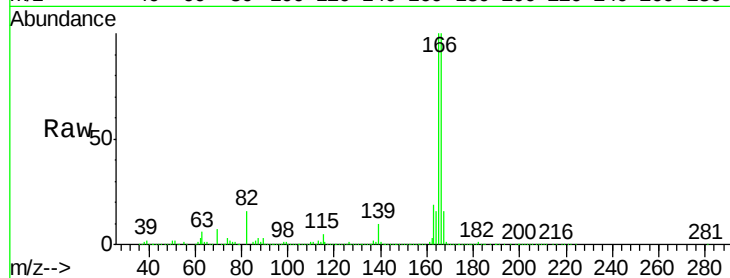
167 16.3 10.6 16.0#

Manual Integrations

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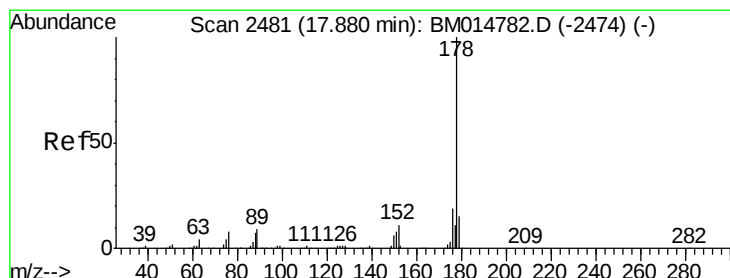
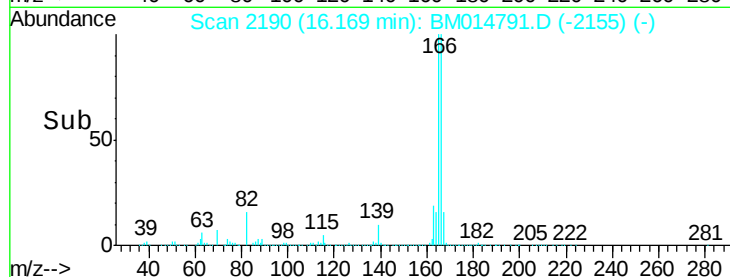
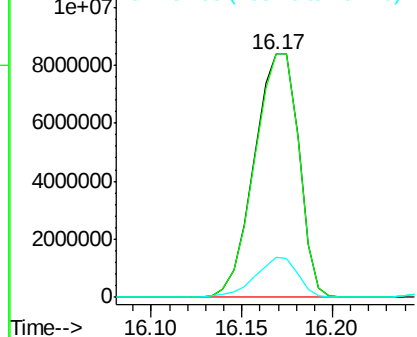
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 349.492 ng/ul m

RT: 17.89 min Scan# 2482

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

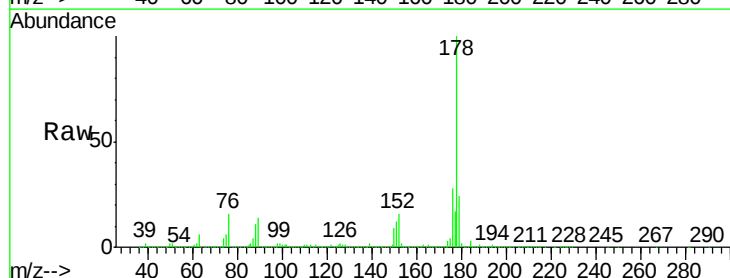
Tgt Ion:178 Resp:32130215

Ion Ratio Lower Upper

178 100

179 23.7 12.6 19.0#

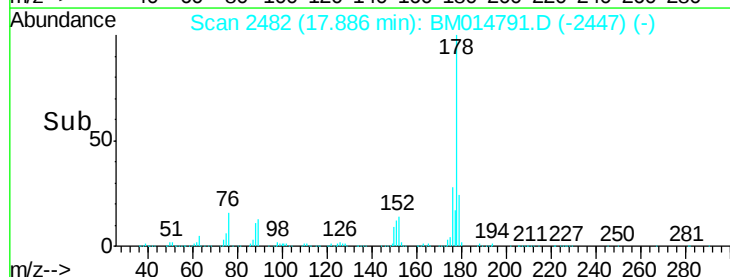
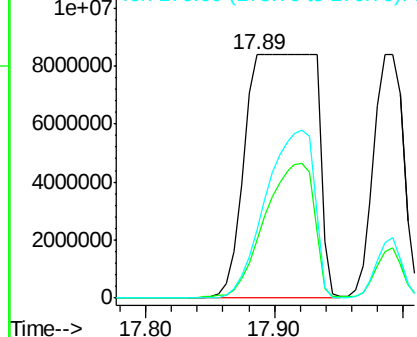
176 28.1 14.9 22.3#

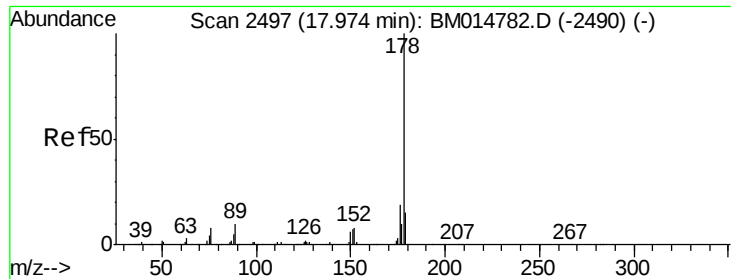


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 143.914 ng/ul

RT: 17.99 min Scan# 2499

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampleId :

DASN9

Tot Ion:178 Resp:13427354

Ion Ratio Lower Upper

178 100

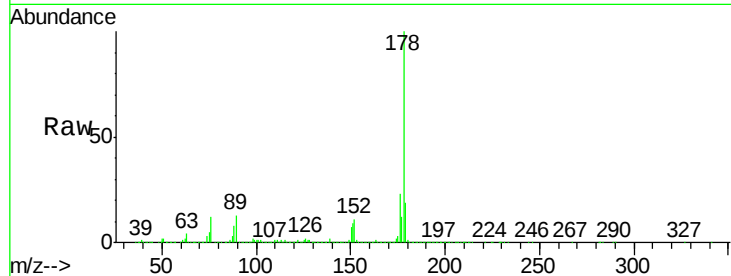
179 19.3 11.7 17.5#

176 22.9 14.6 21.8#

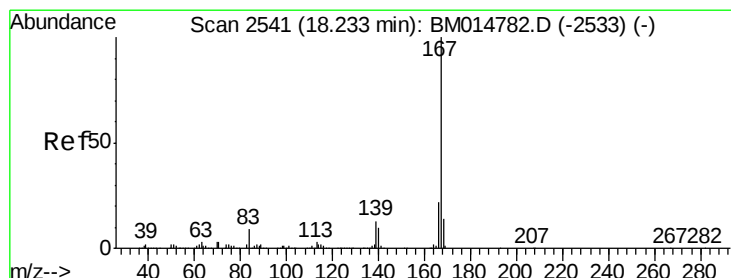
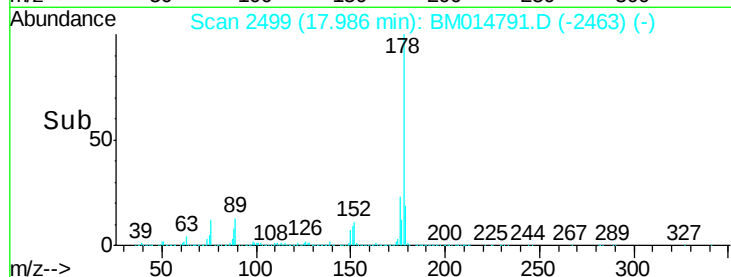
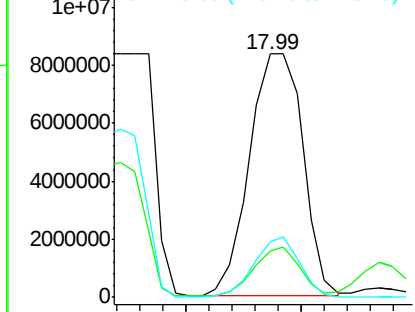
Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 3.762 ng/ul

RT: 18.23 min Scan# 2541

Delta R.T. 0.00 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

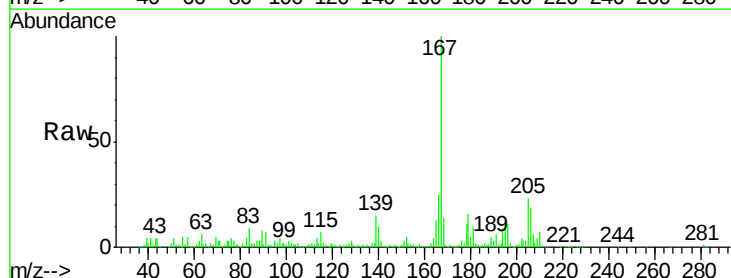
Tgt Ion:167 Resp: 299399

Ion Ratio Lower Upper

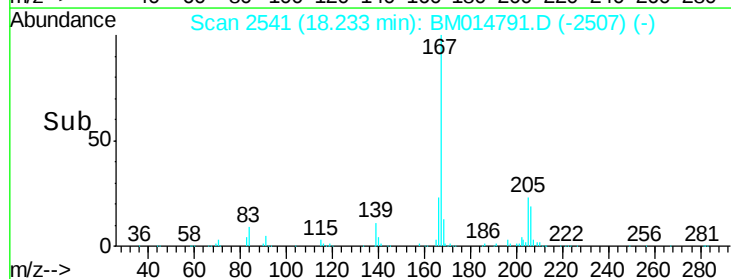
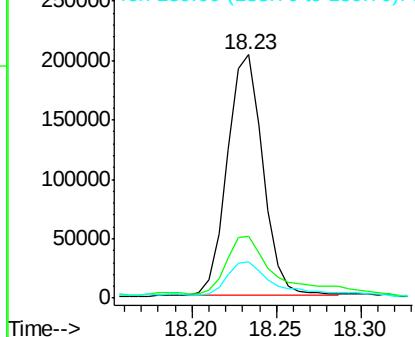
167 100

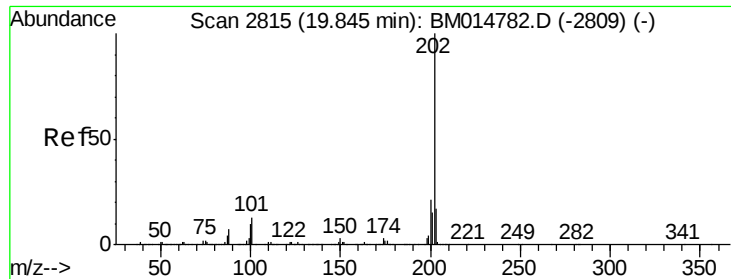
166 25.4 17.1 25.7

139 14.9 10.0 15.0



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: 234.170 ng/ul m

RT: 19.85 min Scan# 2816

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

ClientSampleId :

DASN9

Tot Ion:202 Resp:23471357

Ion Ratio Lower Upper

202 100

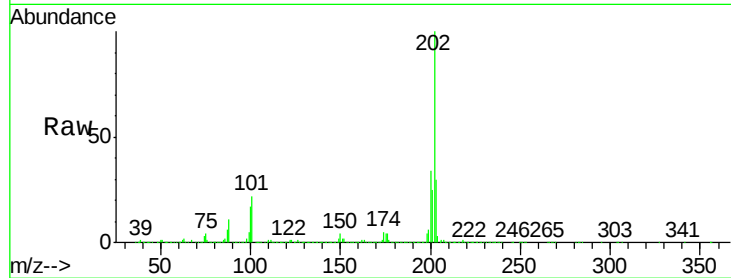
101 21.7 4.6 7.0#

100 16.9 3.4 5.2#

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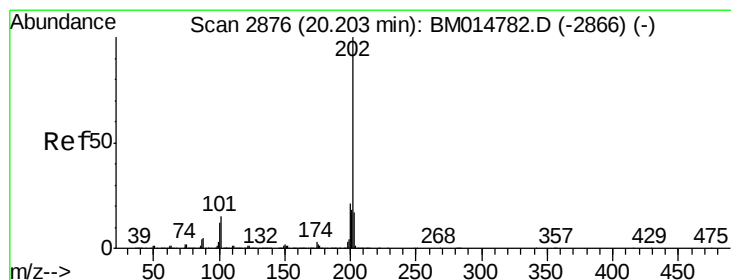
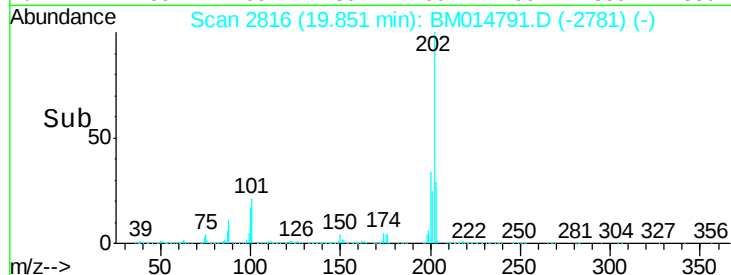
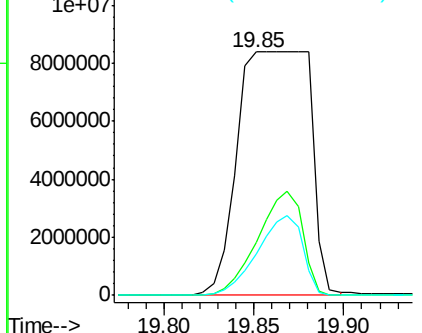
4/24/2018 7:13:33 PM



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: 211.148 ng/ul m

RT: 20.21 min Scan# 2877

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

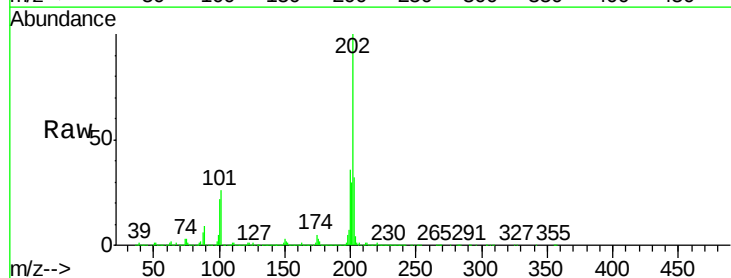
Tgt Ion:202 Resp:21789991

Ion Ratio Lower Upper

202 100

101 25.9 5.1 7.7#

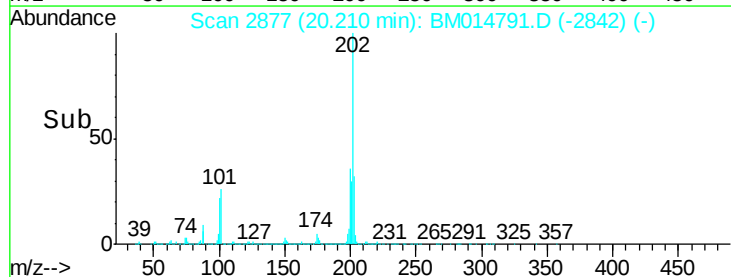
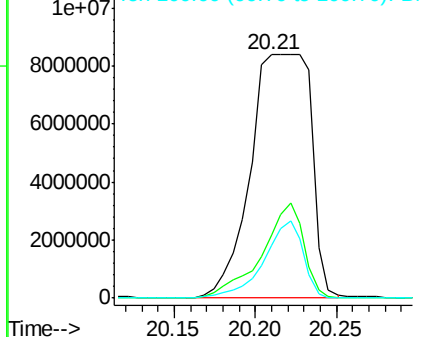
100 21.5 4.9 7.3#

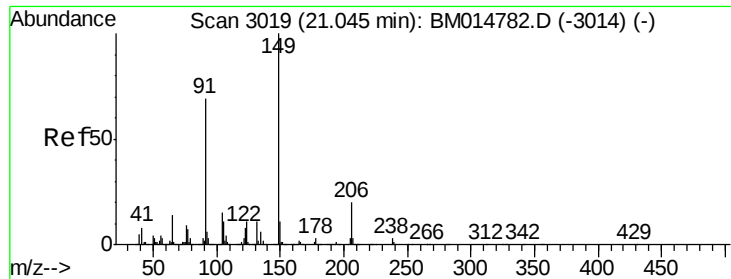


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





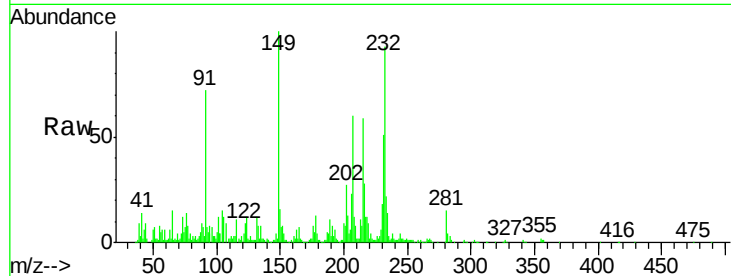
#78
Butylbenzylphthalate
Concen: 3.807 ng/ul
RT: 21.04 min Scan# 3018
Delta R.T. -0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Instrument :
BNA_M
ClientSampleId :
DASN9

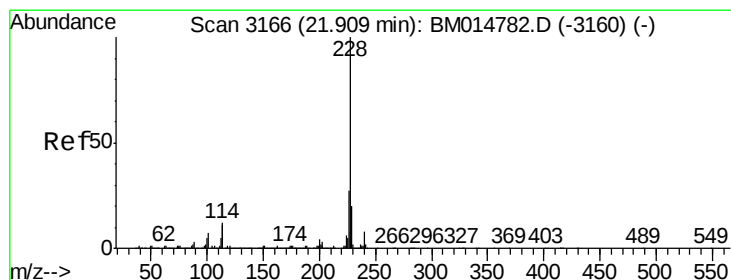
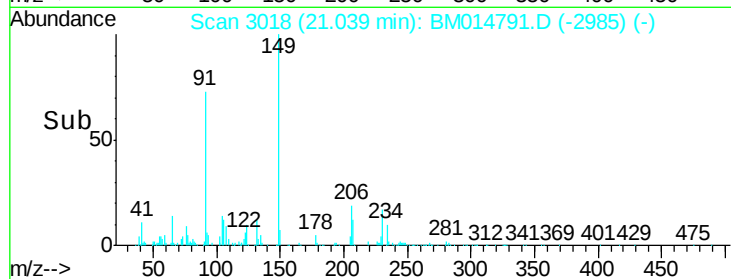
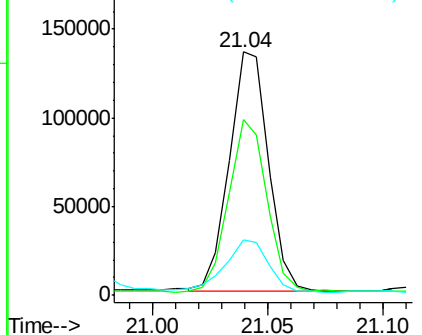
Tot Ion	Ratio	Lower	Upper
149	100		
91	72.0	62.7	94.1
206	22.6	20.8	31.2

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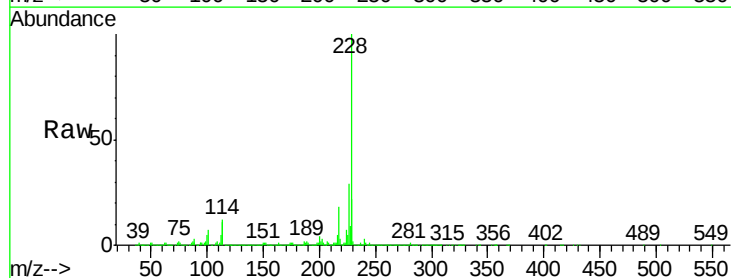


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BM014791.D (-3014) (-)
Ion 206.00 (205.70 to 206.70): E

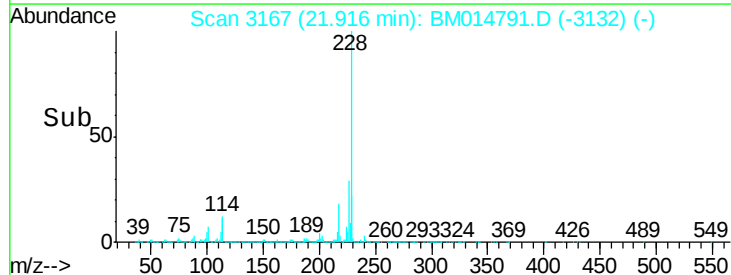
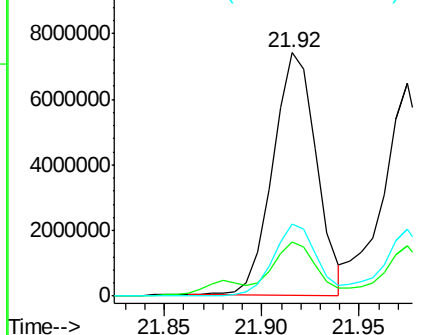


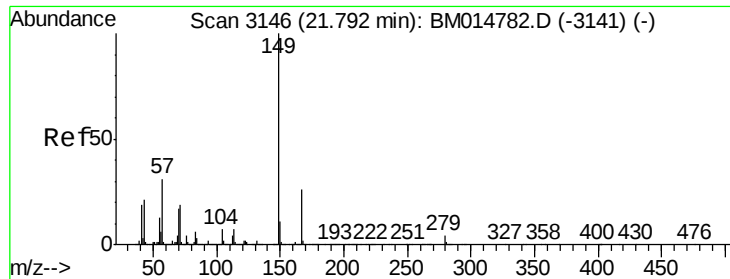
#80
Benzo(a)anthracene
Concen: 110.838 ng/ul
RT: 21.92 min Scan# 3167
Delta R.T. 0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.3	15.4	23.0
226	29.5	21.4	32.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 79.352 ng/ul

RT: 21.79 min Scan# 3146

Delta R.T. 0.00 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

Instrument :

BNA_M

Client Sampled :

DASN9

Tot Ion:149 Resp: 4903846

Ion Ratio Lower Upper

149 100

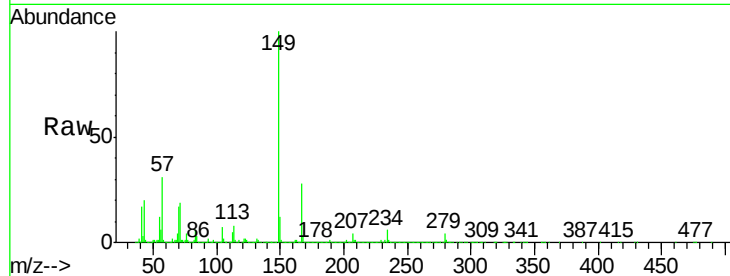
167 27.6 22.8 34.2

279 4.4 4.9 7.3#

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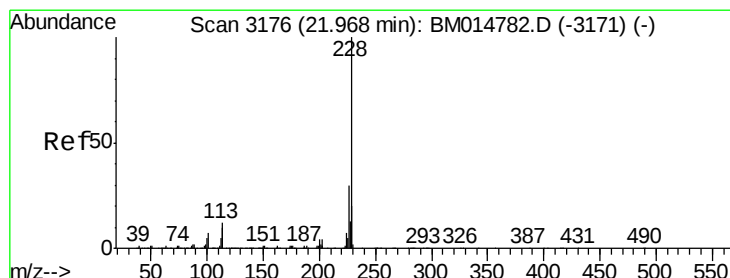
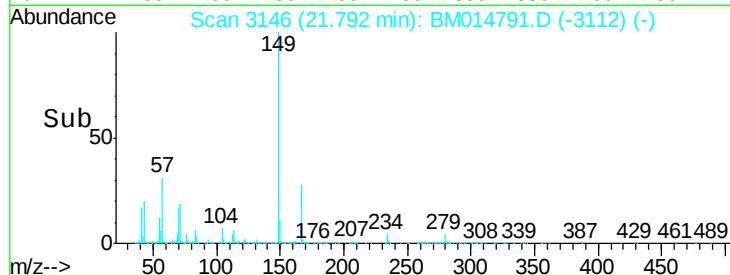
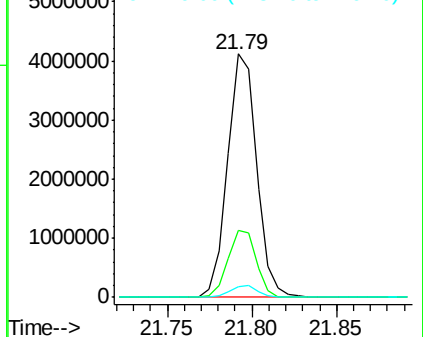
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 98.258 ng/ul m

RT: 21.97 min Scan# 3177

Delta R.T. 0.01 min

Lab File: BM014791.D

Acq: 24 Apr 2018 00:16

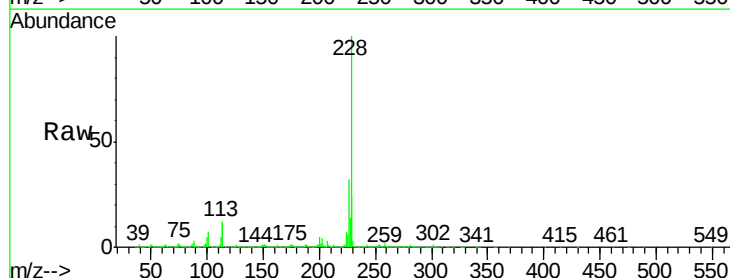
Tgt Ion:228 Resp: 9500760

Ion Ratio Lower Upper

228 100

226 31.6 23.4 35.2

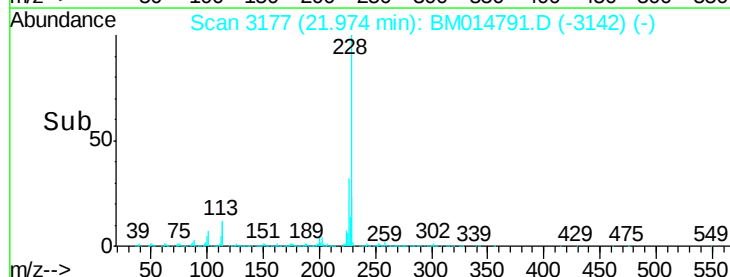
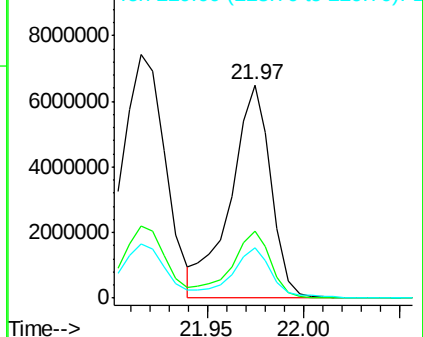
229 23.7 15.5 23.3#

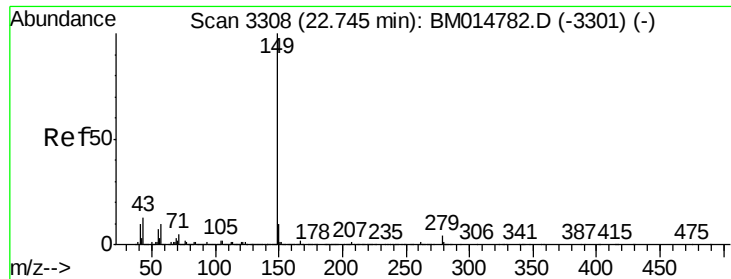


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





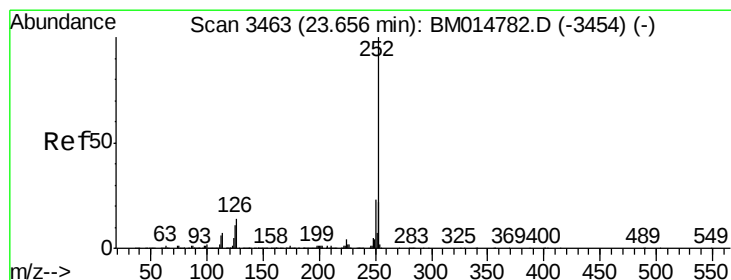
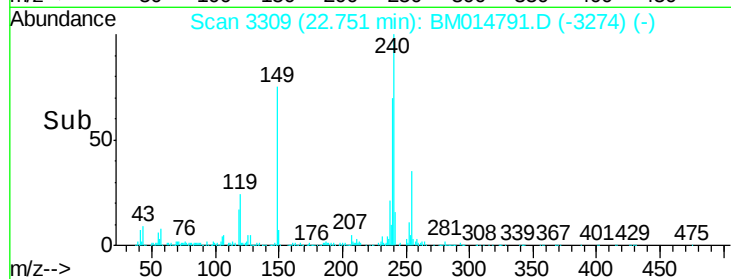
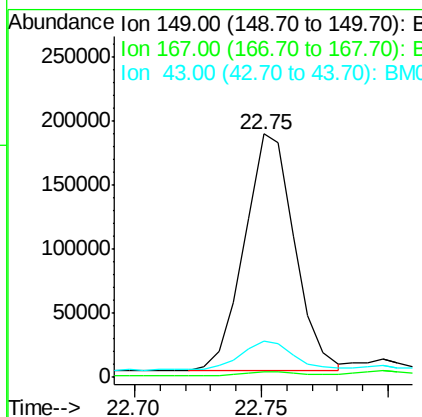
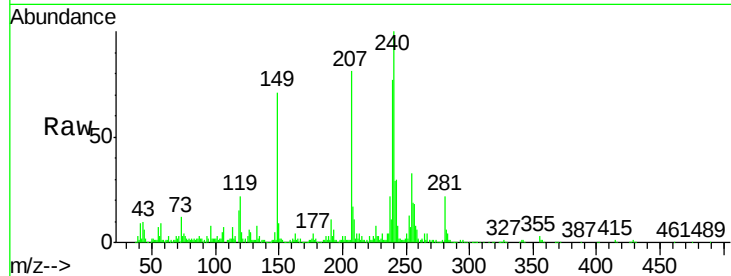
#84
Di-n-octyl phthalate
Concen: 2.459 ng/ul
RT: 22.75 min Scan# 3309
Delta R.T. 0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Instrument :
BNA_M
ClientSampled :
DASN9

Tot Ion	Ratio	Lower	Upper
149	100		
167	2.4	1.3	1.9#
43	14.7	7.3	10.9#

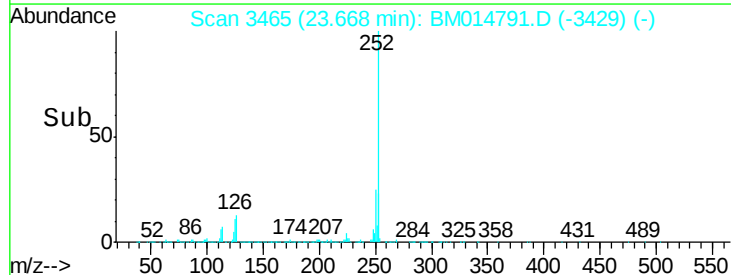
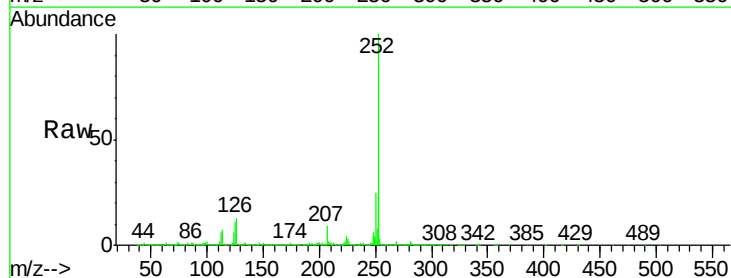
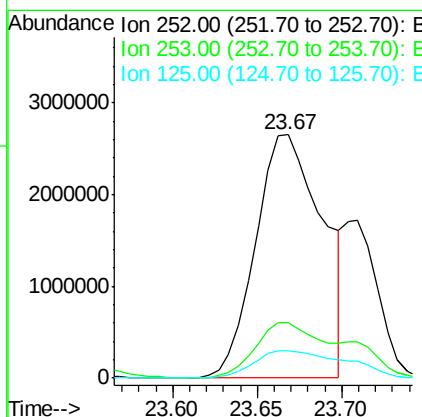
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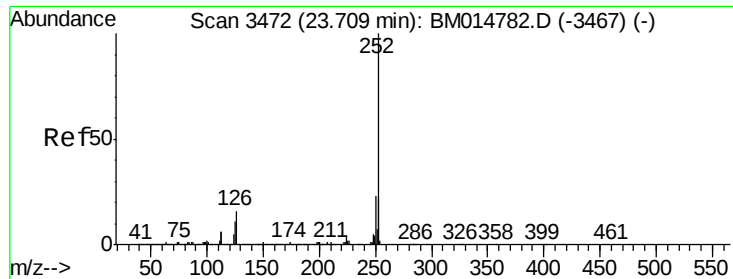
Sohil
4/24/2018 7:13:33 PM



#85
Benzo(b)fluoranthene
Concen: 68.935 ng/ul
RT: 23.67 min Scan# 3465
Delta R.T. 0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	11.4	3.6	5.4#





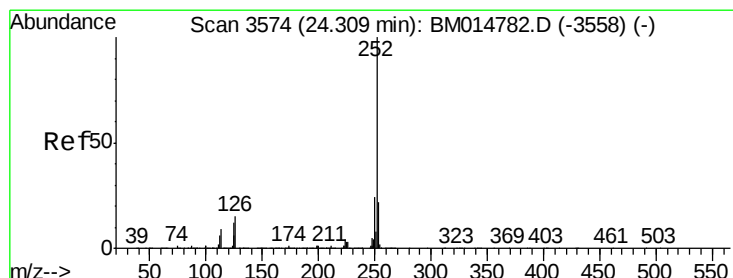
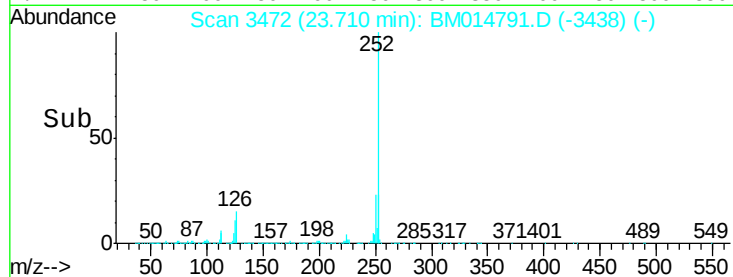
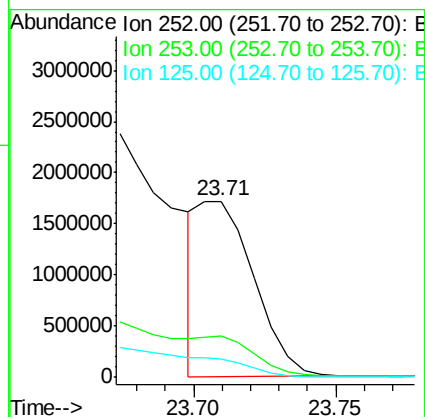
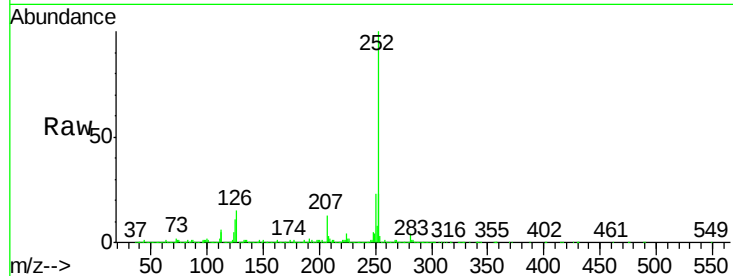
#86
Benzo(k)fluoranthene
Concen: 22.694 ng/ul m
RT: 23.71 min Scan# 3472
Delta R.T. 0.00 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Instrument :
BNA_M
ClientSampleId :
DASN9

Tot Ion:252 Resp: 2313816
Ion Ratio Lower Upper
252 100
253 23.2 17.1 25.7
125 10.7 3.4 5.2#

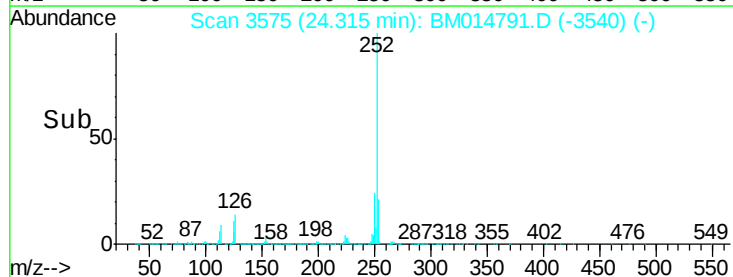
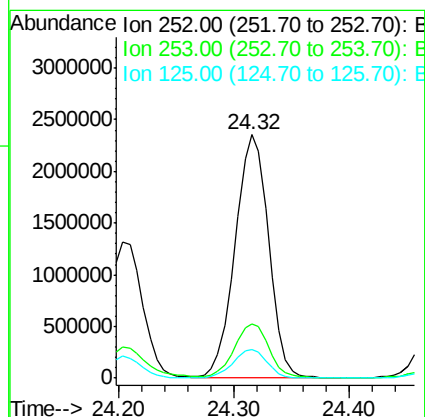
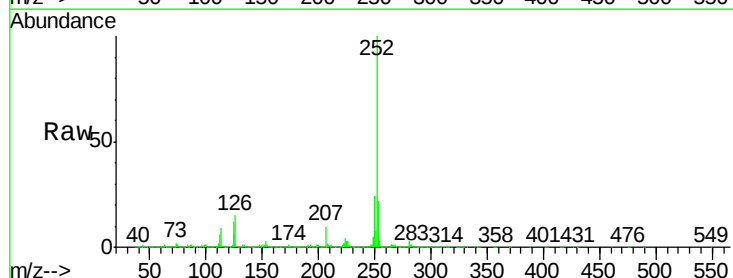
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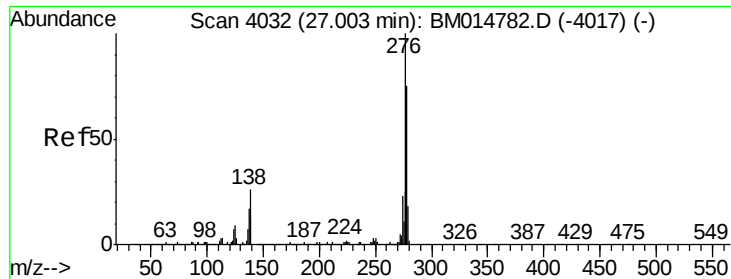
Sohil
4/24/2018 7:13:33 PM



#88
Benzo(a)pyrene
Concen: 46.812 ng/ul
RT: 24.32 min Scan# 3575
Delta R.T. 0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Tgt Ion:252 Resp: 4708086
Ion Ratio Lower Upper
252 100
253 22.4 18.2 27.2
125 11.8 4.0 6.0#





#89

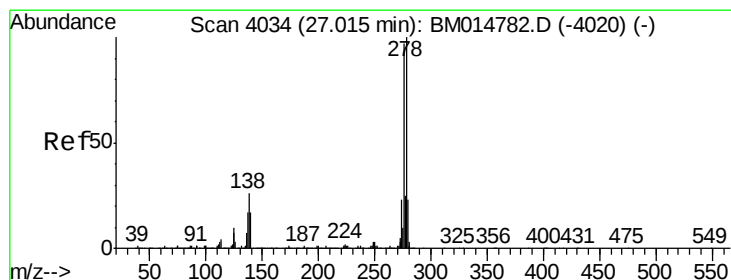
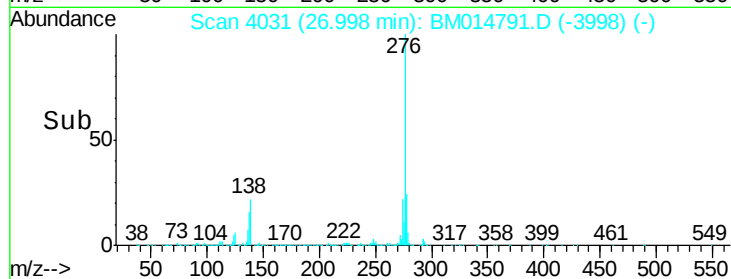
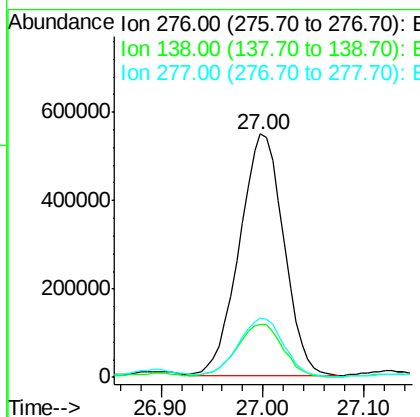
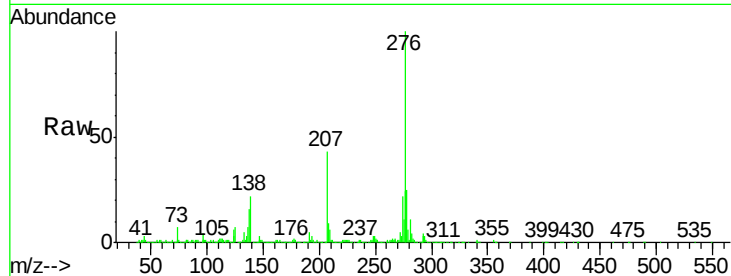
Indeno(1,2,3-cd)pyrene
Concen: 13.635 ng/ul
RT: 27.00 min Scan# 4031
Delta R.T. -0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Instrument :
BNA_M
ClientSampled :
DASN9

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.9	9.3	13.9#
277	24.1	19.9	29.9

Manual Integrations
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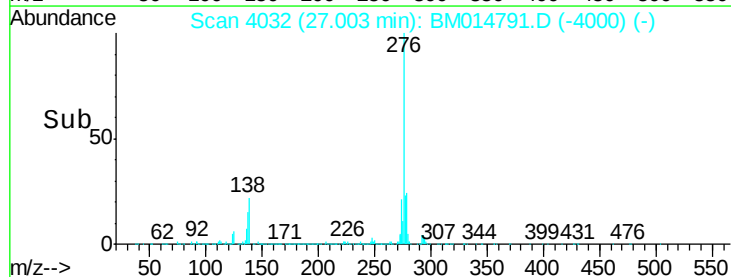
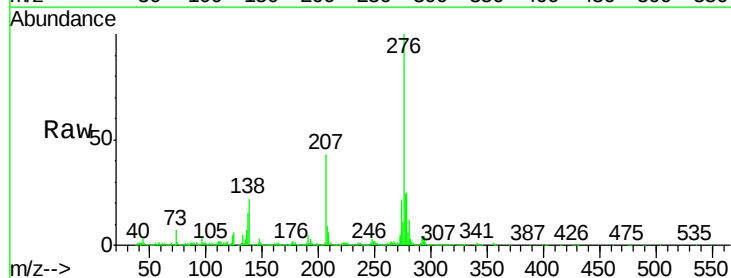
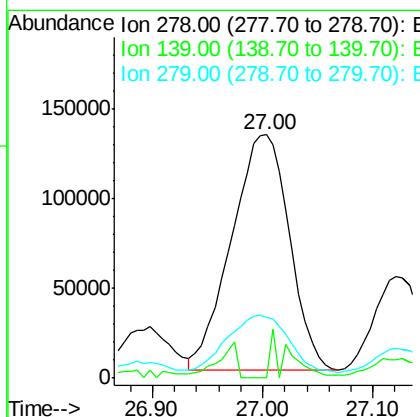
Sohil
4/24/2018 7:13:33 PM

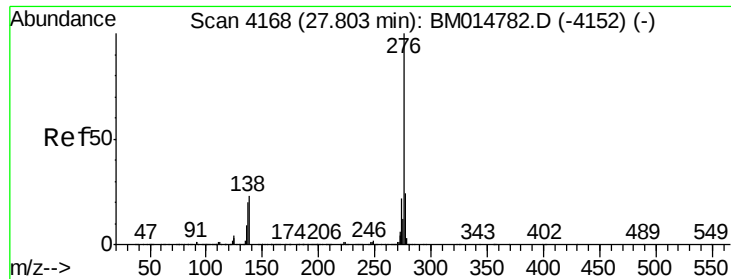


#90

Dibenzo(a,h)anthracene
Concen: 4.698 ng/ul
RT: 27.00 min Scan# 4032
Delta R.T. -0.01 min
Lab File: BM014791.D
Acq: 24 Apr 2018 00:16

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	5.8	8.8#
279	25.1	18.6	27.8





#91
 Benzo(a,h,i)perylene
 Concen: 11.823 ng/ul
 RT: 27.80 min Scan# 4167
 Delta R.T. -0.01 min
 Lab File: BM014791.D
 Acq: 24 Apr 2018 00:16

Instrument :
 BNA_M
 ClientSampleId :
 DASN9

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.7	8.5	12.7#
277	23.5	18.6	28.0

Manual Integrations
 APPROVED

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 4/24/2018 7:13:33 PM

