

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\
 Data File : BM014796.D
 Acq On : 24 Apr 2018 03:17
 Operator : SJ/JU
 Sample : J2431-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Apr 24 04:06:49 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	390740	20.00	ng/ul	0.00
18) Naphthalene-d8	11.37	136	1660769	20.00	ng/ul	0.00
35) Acenaphthene-d10	15.13	164	874678	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.84	188	1787855	20.00	ng/ul	0.00
75) Chrysene-d12	21.93	240	1747475	20.00	ng/ul	0.00
83) Perylene-d12	24.42	264	1838758	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.66	96	42833	4.79	ng/uL	0.00
5) Phenol-d5	7.65	99	803520	26.60	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.83	67	525712	27.14	ng/ul	0.00
9) 2-Chlorophenol-d4	8.05	132	678210	26.84	ng/ul	0.00
13) 4-Methylphenol-d8	9.22	113	637456	26.46	ng/ul	0.00
19) Nitrobenzene-d5	9.70	128	316659	26.37	ng/ul	0.00
22) 2-Nitrophenol-d4	10.44	143	340535	28.48	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.97	165	609979	25.11	ng/ul	0.00
29) 4-Chloroaniline-d4	11.49	131	689896	28.77	ng/ul	0.00
43) Dimethylphthalate-d6	14.52	166	1798533	26.34	ng/ul	0.00
46) Acenaphthylene-d8	14.83	160	2158274	25.60	ng/ul	0.00
51) 4-Nitrophenol-d4	15.28	143	270324	21.33	ng/ul	0.00
57) Fluorene-d10	16.10	176	1539170	25.92	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.20	200	143893	14.87	ng/ul	0.00
70) Anthracene-d10	17.94	188	2265917	27.20	ng/ul	0.00
76) Pyrene-d10	20.17	212	2362072	28.57	ng/ul	0.00
87) Benzo(a)pyrene-d12	24.26	264	2624300	29.05	ng/ul	0.00

Target Compounds

					Ovalue
14) Acetophenone	9.34	105	36359	1.030 ng/ul#	36
17) Hexachloroethane	9.65	117	10916	1.072 ng/ul#	1
28) Naphthalene	11.42	128	759187	9.381 ng/ul	100
30) 4-Chloroaniline	11.42	127	100397	4.313 ng/ul#	17
34) 2-Methylnaphthalene	12.99	142	317071	5.642 ng/ul	96
40) 1,1'-Biphenyl	13.97	154	110845	1.576 ng/ul#	98
44) Dimethylphthalate	14.56	163	354644	5.373 ng/ul	99
47) Acenaphthylene	14.86	152	195634	2.395 ng/ul	98
49) Acenaphthene	15.19	153	599858	10.333 ng/ul	100
53) Dibenzofuran	15.52	168	779773	9.673 ng/ul	100
58) Fluorene	16.16	166	613700	9.428 ng/ul	99
68) Pentachlorophenol	17.48	266	50083	4.014 ng/ul	95
69) Phenanthrene	17.89	178	3735033	38.900 ng/ul	99
71) Anthracene	17.97	178	945217	9.700 ng/ul	99
72) Carbazole	18.23	167	244163	2.937 ng/ul	97
73) Di-n-butylphthalate	18.75	149	102616	1.015 ng/ul#	90
74) Fluoranthene	19.84	202	3988737	38.103 ng/ul#	82
77) Pyrene	20.20	202	2935108	28.747 ng/ul#	80
80) Benzo(a)anthracene	21.91	228	1381129	13.515 ng/ul	96
81) Bis(2-ethylhexyl)phthalate	21.79	149	1622680	26.540 ng/ul#	96
82) Chrysene	21.97	228	1574941	16.463 ng/ul	96
85) Benzo(b)fluoranthene	23.66	252	4764952	43.960 ng/ul#	97
86) Benzo(k)fluoranthene	23.66	252	4764952	45.715 ng/ul#	95

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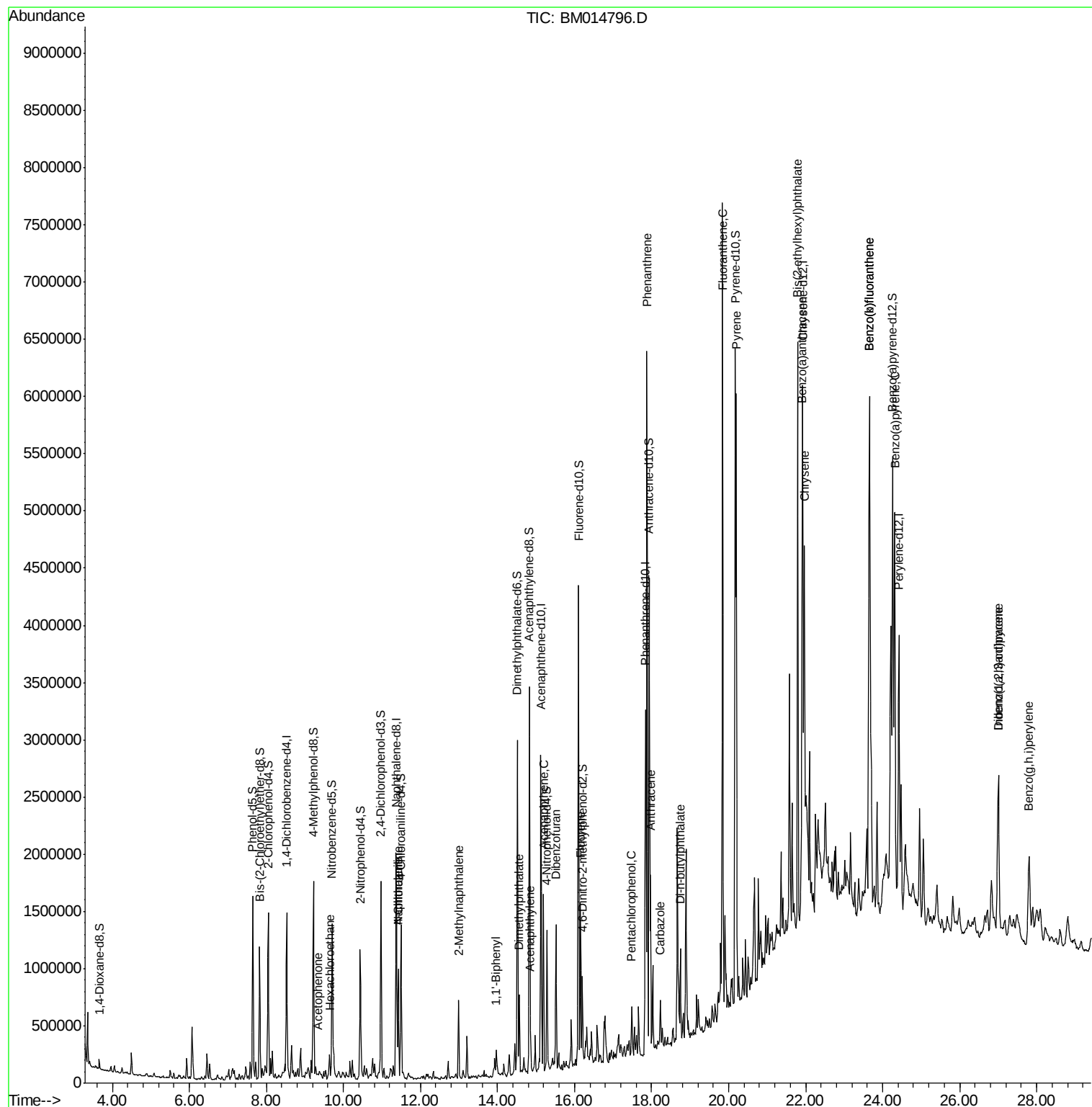
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	24.32	252	2326130	22.623	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	27.00	276	1336253	10.743	ng/ul#	90
90) Dibenzo(a,h)anthracene	27.00	278	349458	3.337	ng/ul#	94
91) Benzo(g,h,i)perylene	27.80	276	954262	9.325	ng/ul#	89

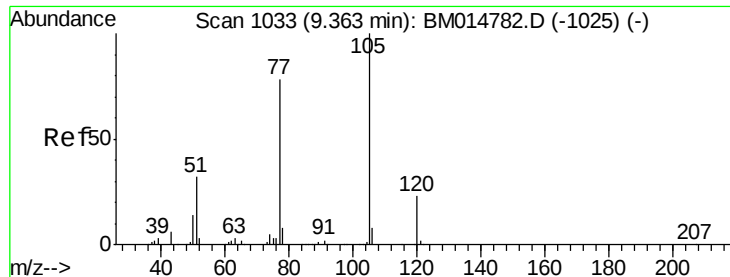
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 1.030 ng/ul

RT: 9.34 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

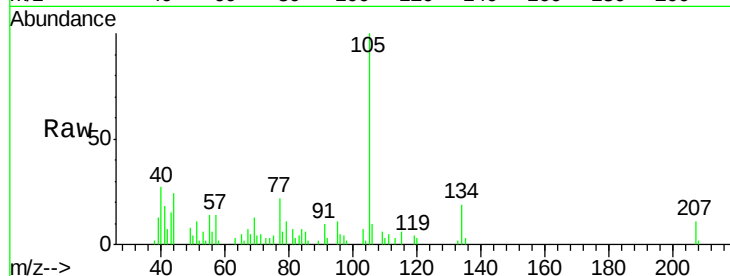
Tot Ion:105 Resp: 36359

Ion Ratio Lower Upper

105 100

77 22.1 74.2 111.4#

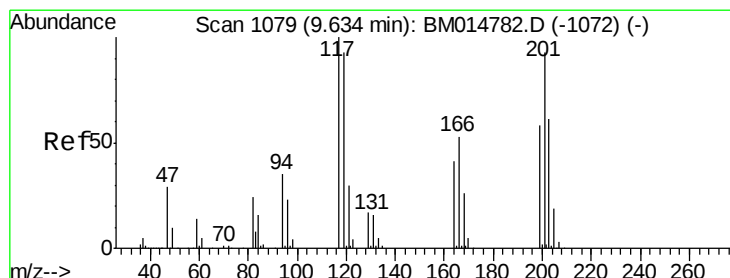
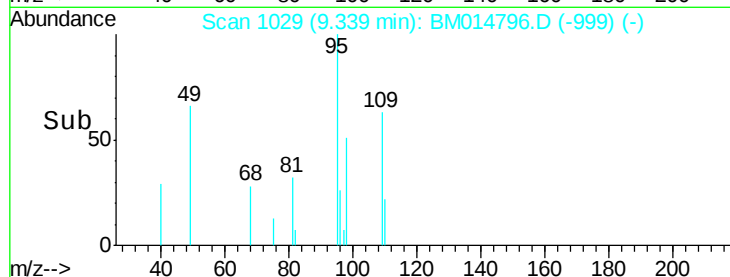
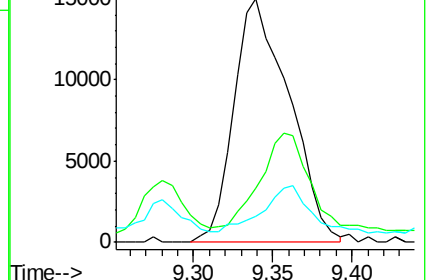
51 10.7 23.4 35.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#17

Hexachloroethane

Concen: 1.072 ng/ul

RT: 9.65 min Scan# 1081

Delta R.T. 0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

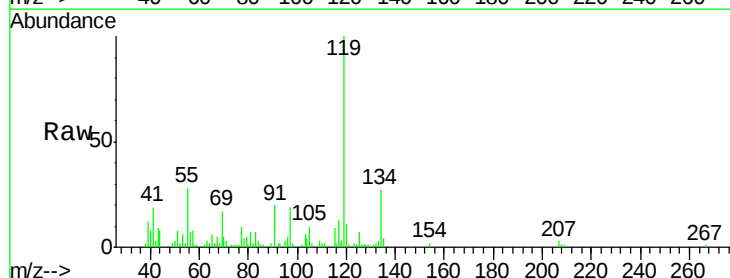
Tgt Ion:117 Resp: 10916

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

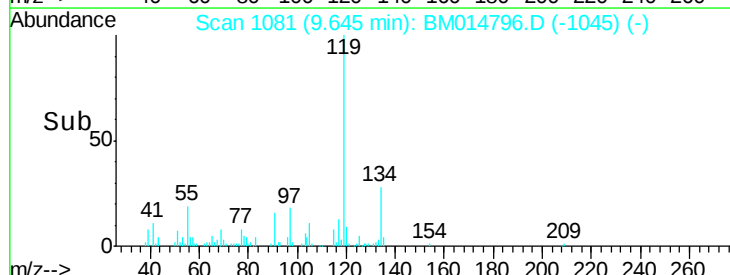
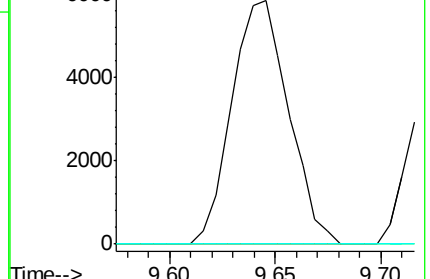
199 0.0 67.8 101.6#

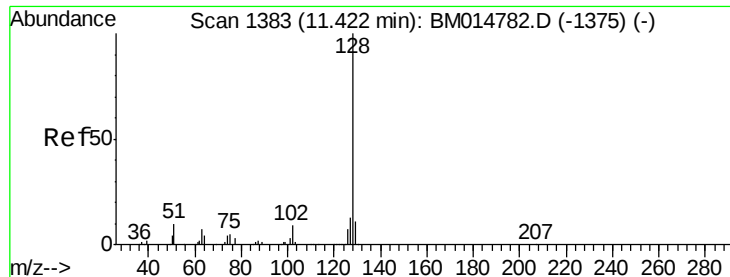


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#28

Naphthalene

Concen: 9.381 ng/ul

RT: 11.42 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampled :

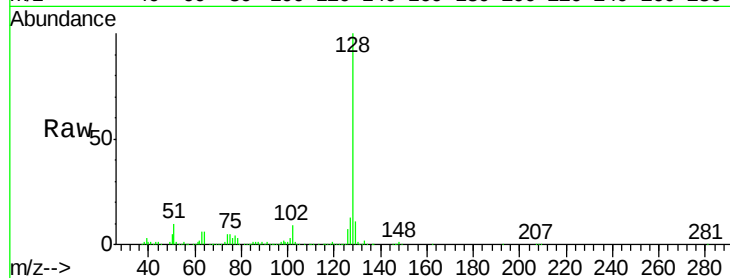
Tot Ion:128 Resp: 759187

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

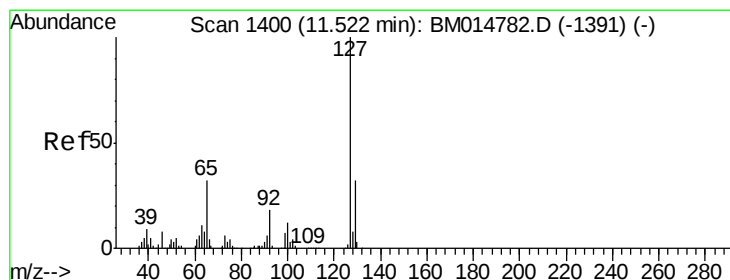
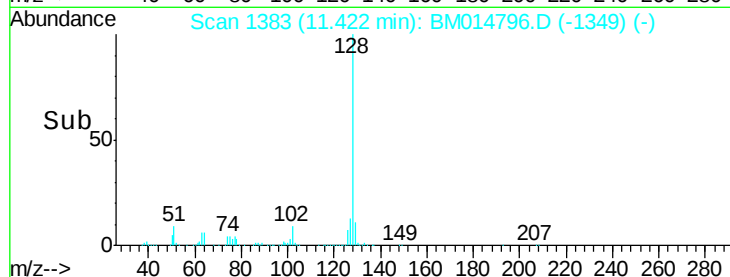
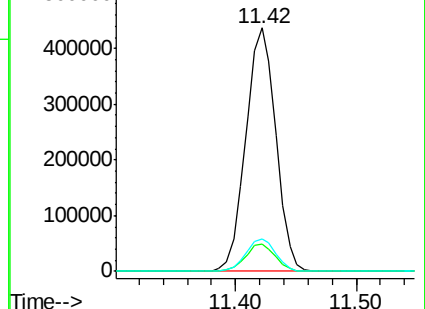
127 13.1 10.6 16.0



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



#30

4-Chloroaniline

Concen: 4.313 ng/ul

RT: 11.42 min Scan# 1383

Delta R.T. -0.10 min

Lab File: BM014796.D

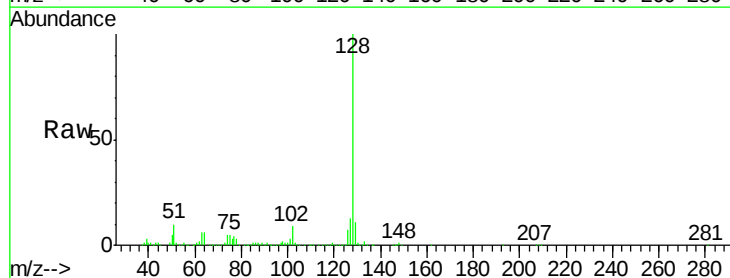
Acq: 24 Apr 2018 03:17

Tgt Ion:127 Resp: 100397

Ion Ratio Lower Upper

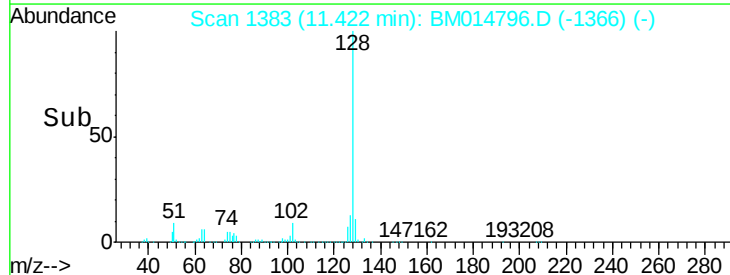
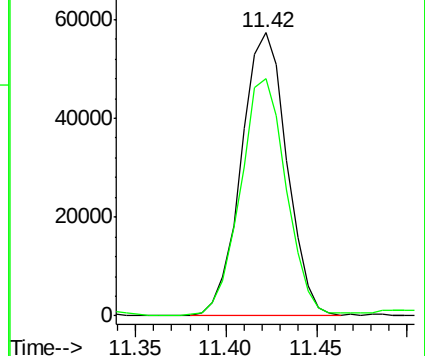
127 100

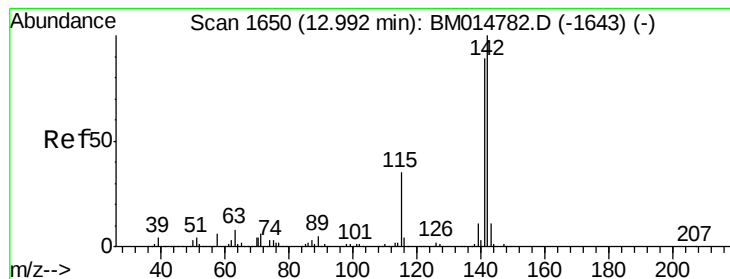
129 83.7 28.4 42.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#34

2-Methylnaphthalene

Concen: 5.642 ng/ul

RT: 12.99 min Scan# 1650

Delta R.T. -0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

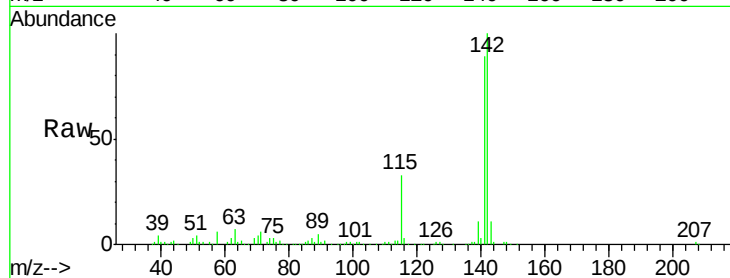
ClientSampleId :

Tot Ion:142 Resp: 317071

Ion Ratio Lower Upper

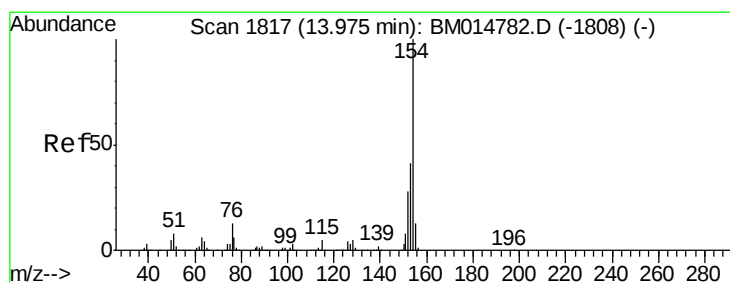
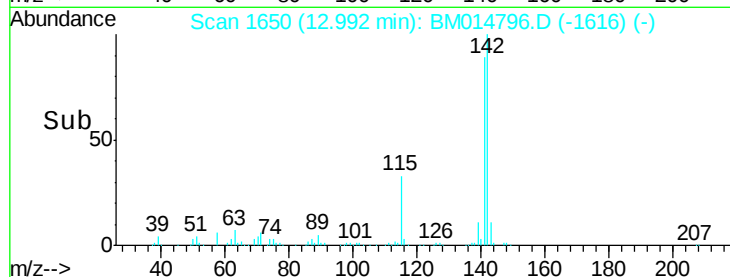
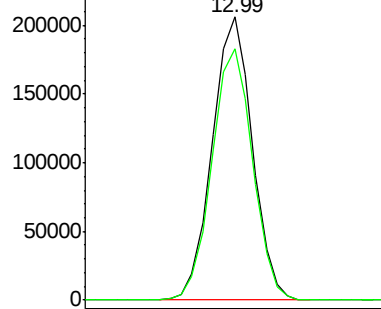
142 100

141 88.7 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: 1.576 ng/ul

RT: 13.97 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

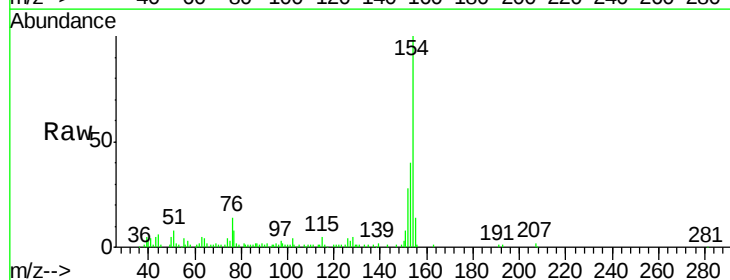
Tgt Ion:154 Resp: 110845

Ion Ratio Lower Upper

154 100

153 40.4 32.6 48.8

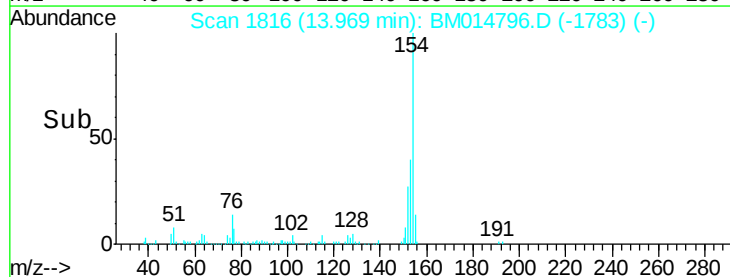
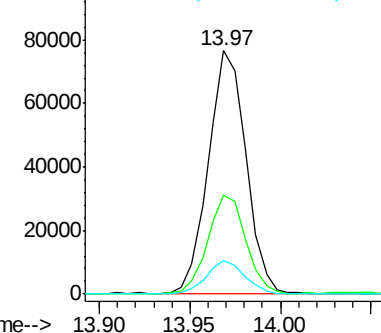
76 13.7 8.5 12.7#

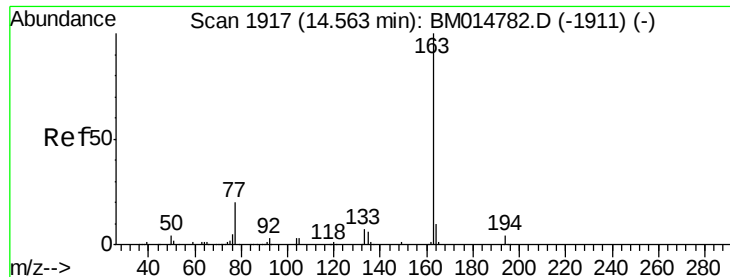


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM

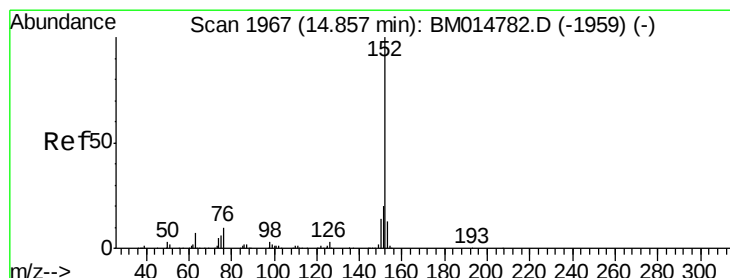
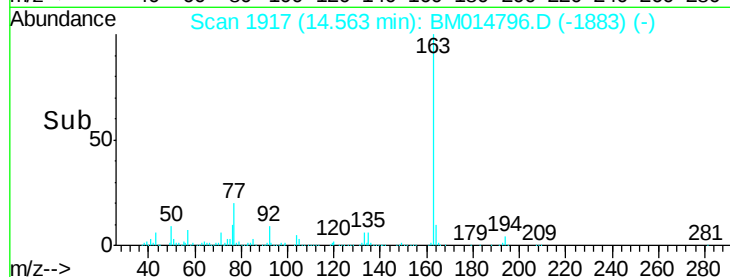
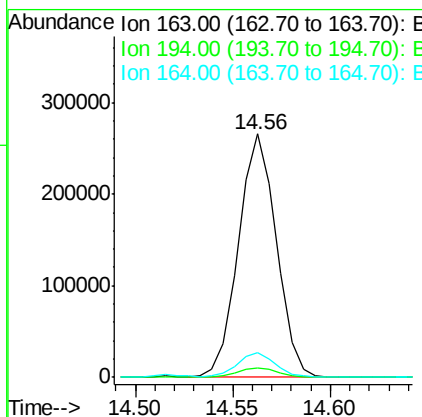
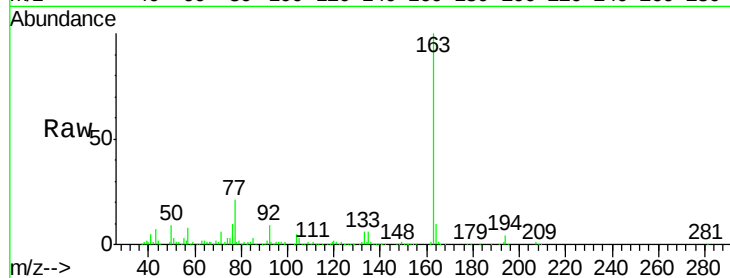




#44
Dimethylphthalate
Concen: 5.373 ng/ul
RT: 14.56 min Scan# 1917
Delta R.T. -0.00 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

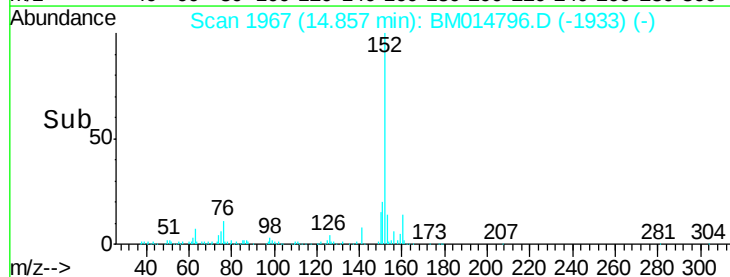
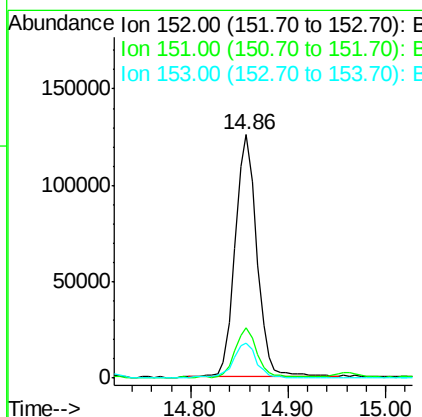
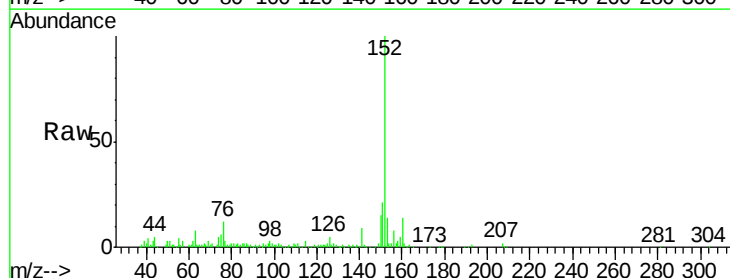
Instrument :
BNA_M
ClientSampleId :

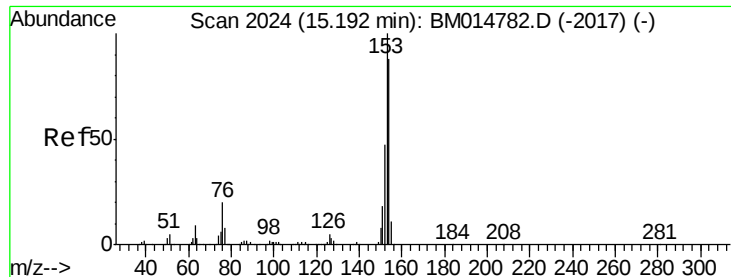
Tot Ion:163 Resp: 354644
Ion Ratio Lower Upper
163 100
194 4.0 3.5 5.3
164 10.2 8.2 12.4



#47
Acenaphthylene
Concen: 2.395 ng/ul
RT: 14.86 min Scan# 1967
Delta R.T. -0.00 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

Tgt Ion:152 Resp: 195634
Ion Ratio Lower Upper
152 100
151 20.7 16.3 24.5
153 14.3 10.2 15.4





#49

Acenaphthene

Concen: 10.333 ng/ul

RT: 15.19 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

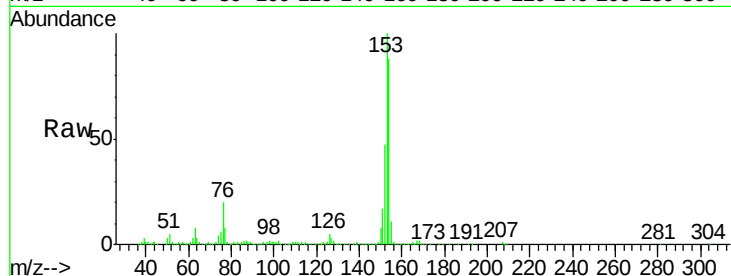
Tot Ion:153 Resp: 599858

Ion Ratio Lower Upper

153 100

152 46.9 37.6 56.4

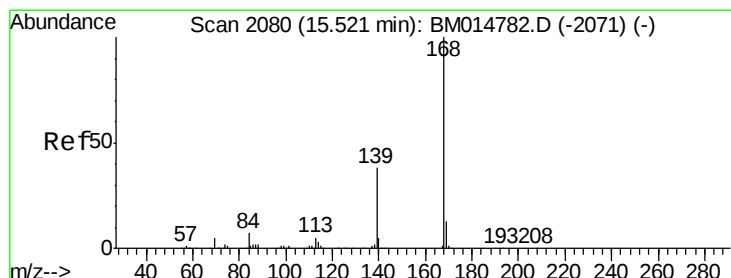
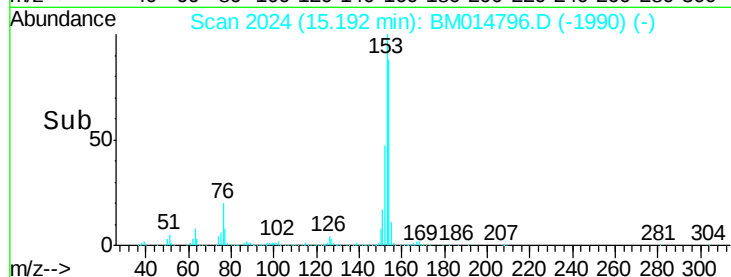
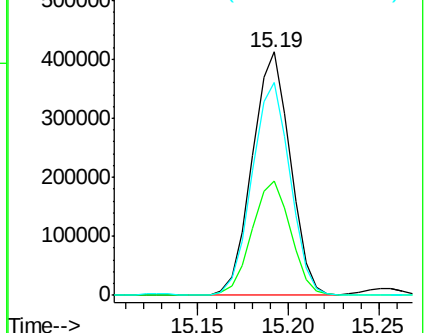
154 87.6 70.4 105.6



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

Dibenzofuran

Concen: 9.673 ng/ul

RT: 15.52 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BM014796.D

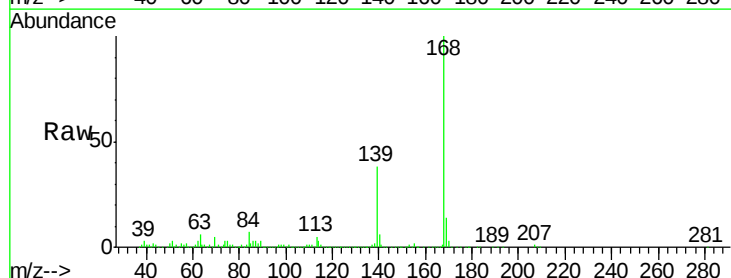
Acq: 24 Apr 2018 03:17

Tgt Ion:168 Resp: 779773

Ion Ratio Lower Upper

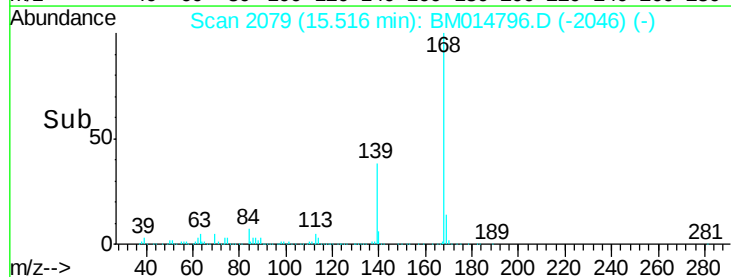
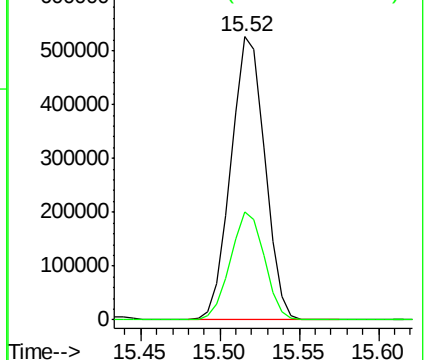
168 100

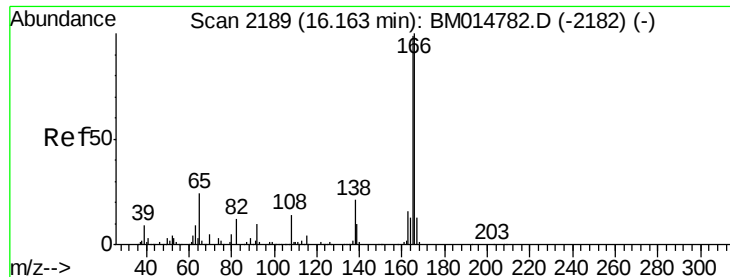
139 38.3 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 9.428 ng/ul

RT: 16.16 min Scan# 2188

Delta R.T. -0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

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ClientSampleId :

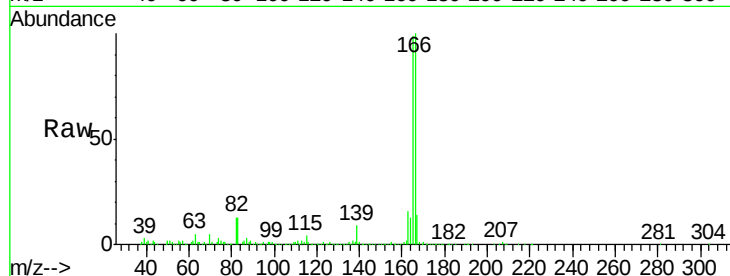
Tot Ion:166 Resp: 613700

Ion Ratio Lower Upper

166 100

165 98.5 77.9 116.9

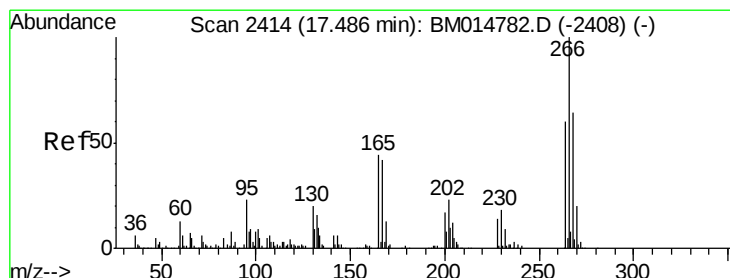
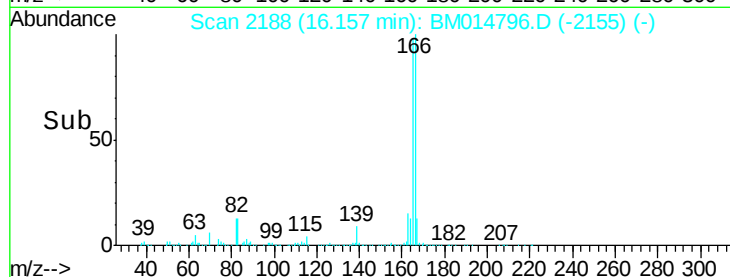
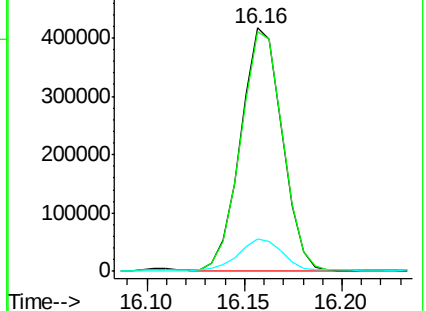
167 13.5 10.6 16.0



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



#68

Pentachlorophenol

Concen: 4.014 ng/ul

RT: 17.48 min Scan# 2413

Delta R.T. -0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

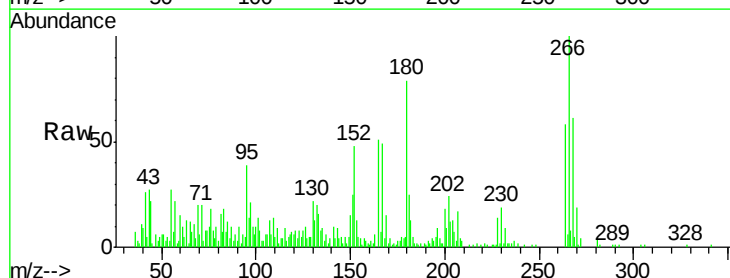
Tgt Ion:266 Resp: 50083

Ion Ratio Lower Upper

266 100

264 58.3 49.3 73.9

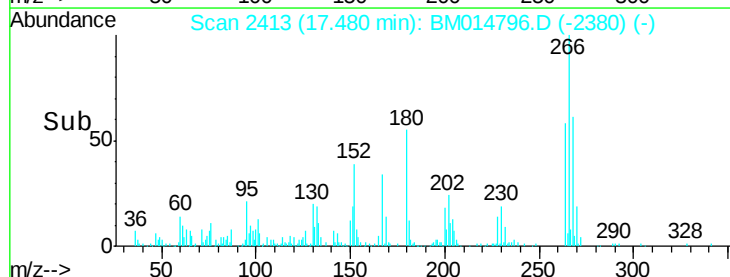
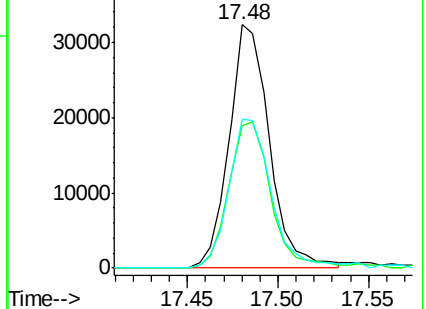
268 61.1 52.6 78.8

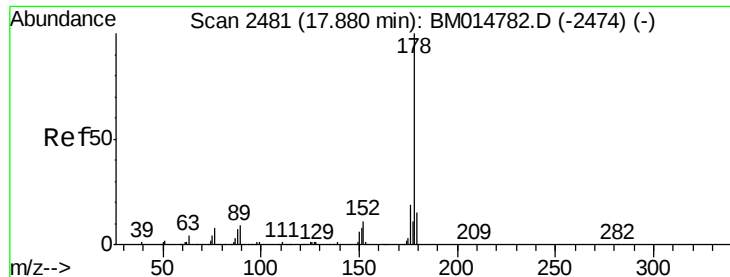


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 38.900 ng/ul

RT: 17.89 min Scan# 2482

Delta R.T. 0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

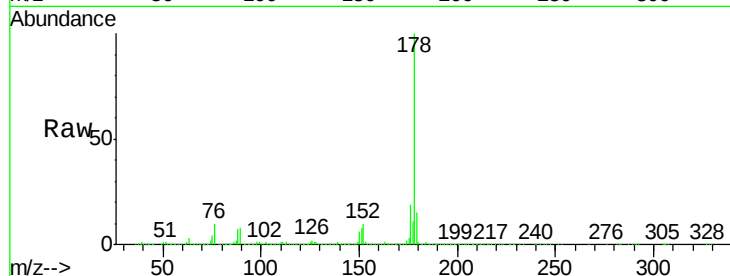
Tot Ion:178 Resp: 3735033

Ion Ratio Lower Upper

178 100

179 15.4 12.6 19.0

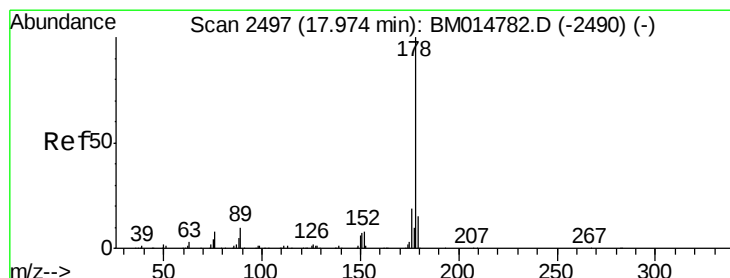
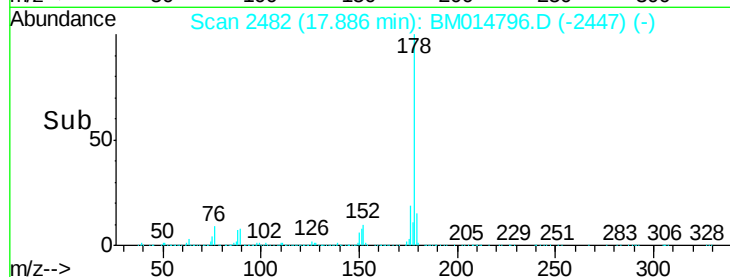
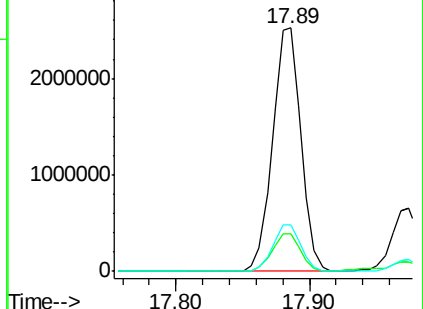
176 19.3 14.9 22.3



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: 9.700 ng/ul

RT: 17.97 min Scan# 2497

Delta R.T. 0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

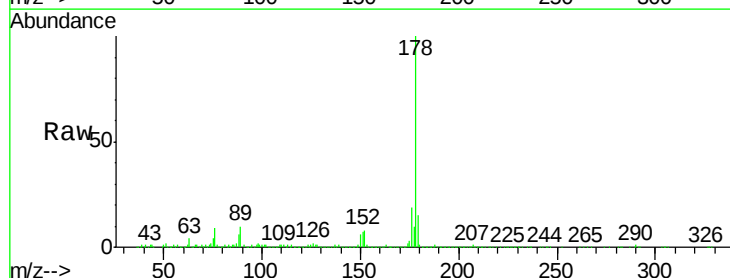
Tgt Ion:178 Resp: 945217

Ion Ratio Lower Upper

178 100

179 15.4 11.7 17.5

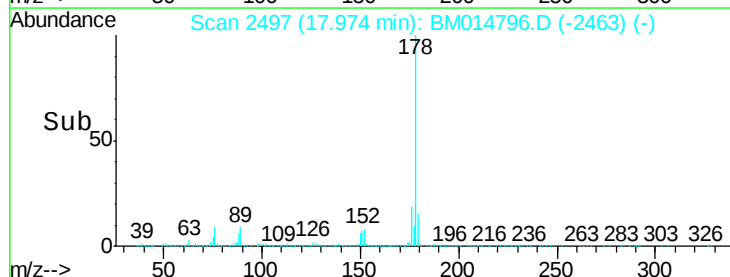
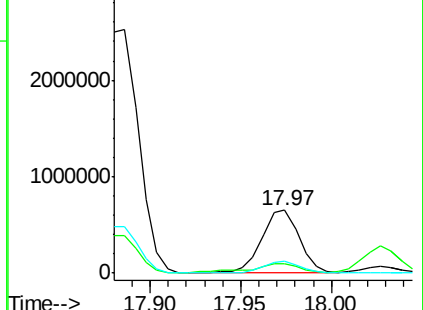
176 18.6 14.6 21.8

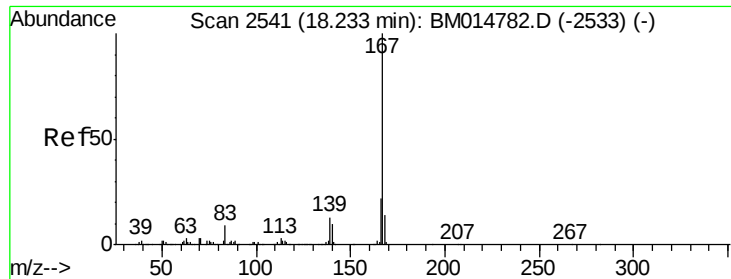


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 2.937 ng/ul

RT: 18.23 min Scan# 2540

Delta R.T. -0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

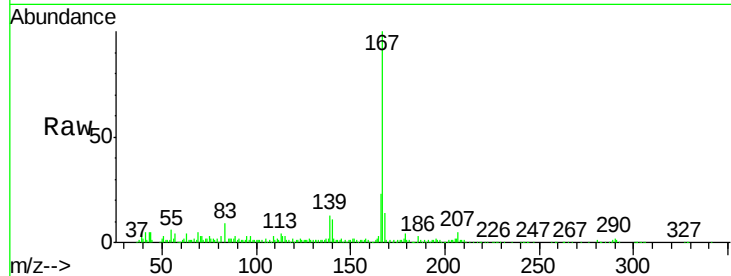
Tot Ion:167 Resp: 244163

Ion Ratio Lower Upper

167 100

166 23.1 17.1 25.7

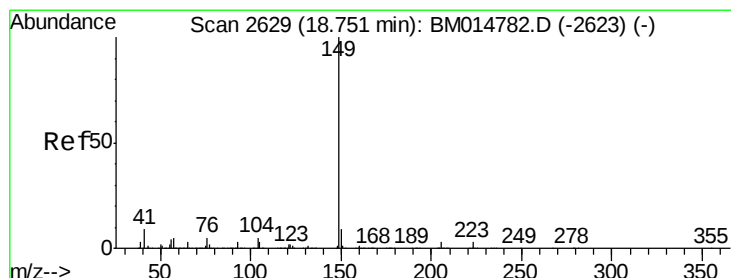
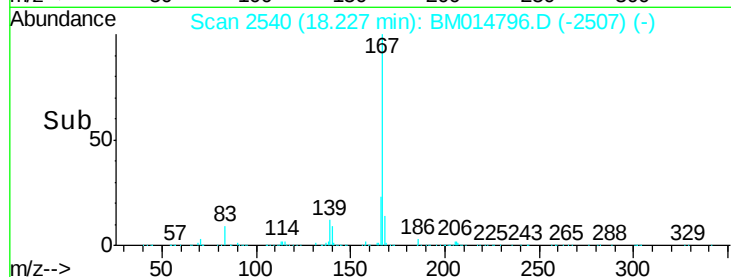
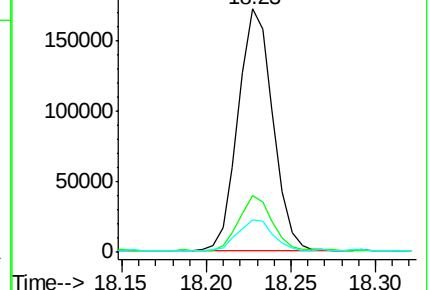
139 13.5 10.0 15.0



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



#73

Di-n-butylphthalate

Concen: 1.015 ng/ul

RT: 18.75 min Scan# 2629

Delta R.T. -0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

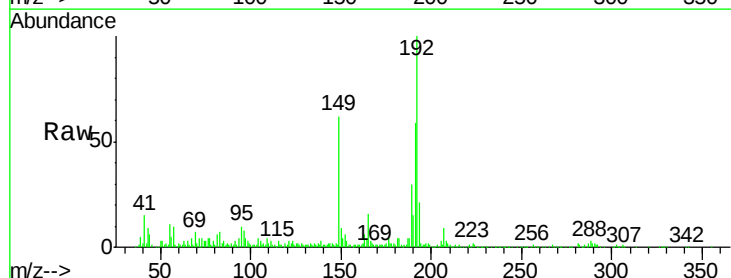
Tgt Ion:149 Resp: 102616

Ion Ratio Lower Upper

149 100

150 14.2 7.1 10.7#

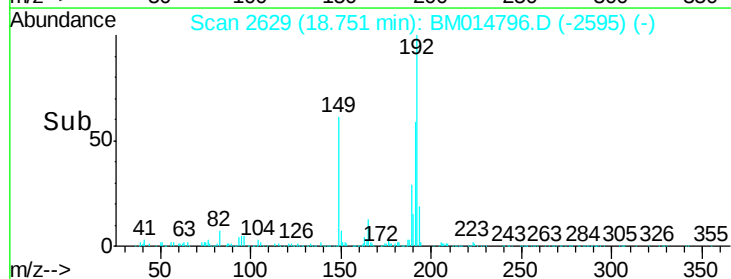
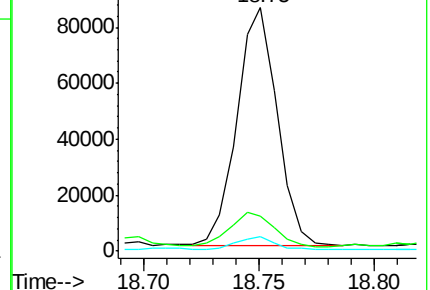
104 5.8 5.6 8.4

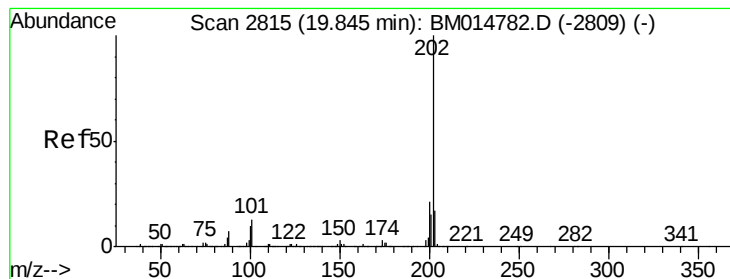


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 38.103 ng/ul

RT: 19.84 min Scan# 2815

Delta R.T. 0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

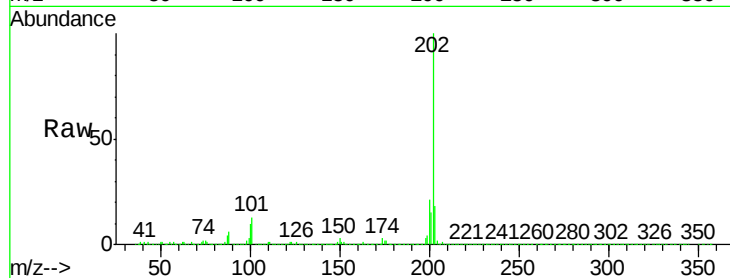
Tot Ion:202 Resp: 3988737

Ion Ratio Lower Upper

202 100

101 12.5 4.6 7.0#

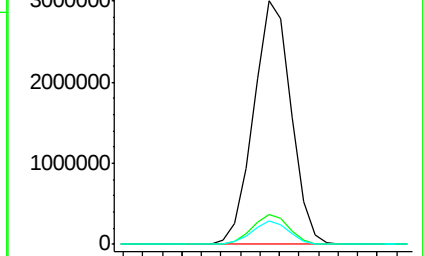
100 9.6 3.4 5.2#



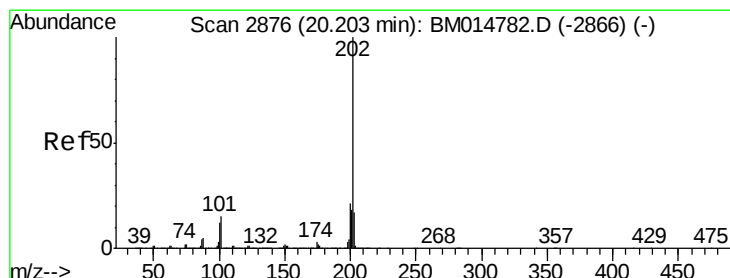
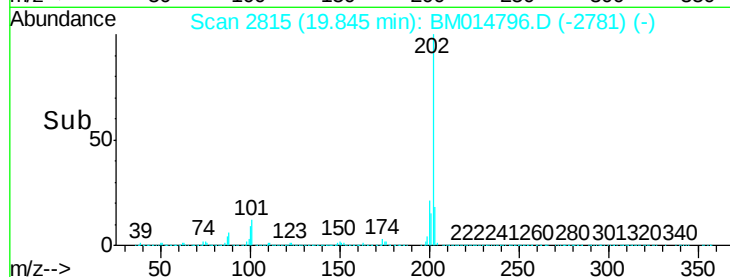
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time-->



#77

Pyrene

Concen: 28.747 ng/ul

RT: 20.20 min Scan# 2876

Delta R.T. 0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

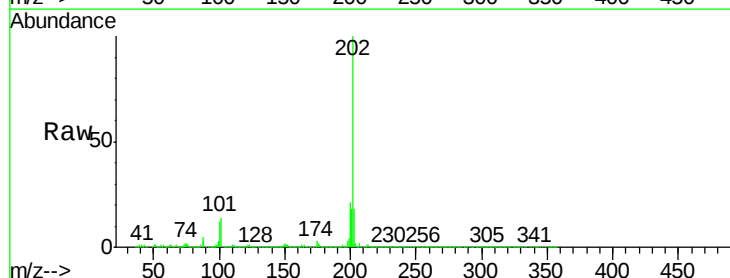
Tgt Ion:202 Resp: 2935108

Ion Ratio Lower Upper

202 100

101 14.3 5.1 7.7#

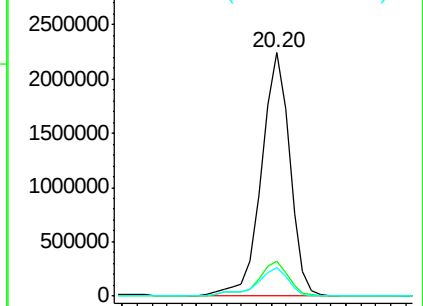
100 11.7 4.9 7.3#



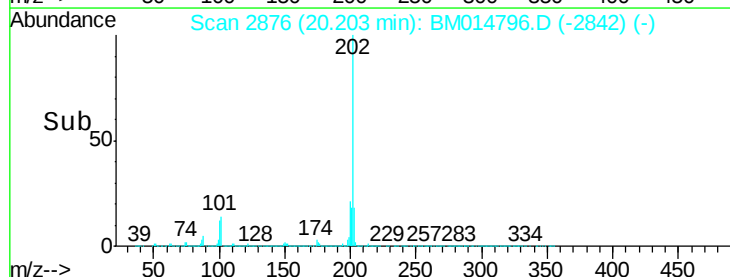
Abundance Ion 202.00 (201.70 to 202.70): E

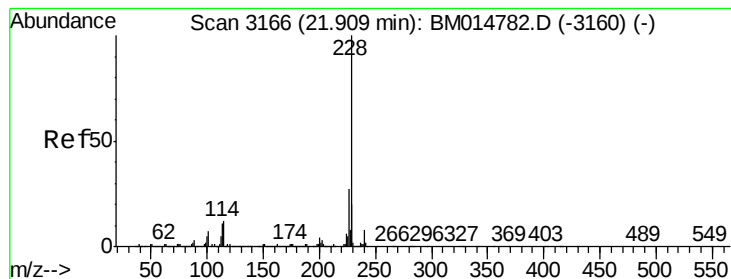
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time-->





#80

Benzo(a)anthracene

Concen: 13.515 ng/ul

RT: 21.91 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

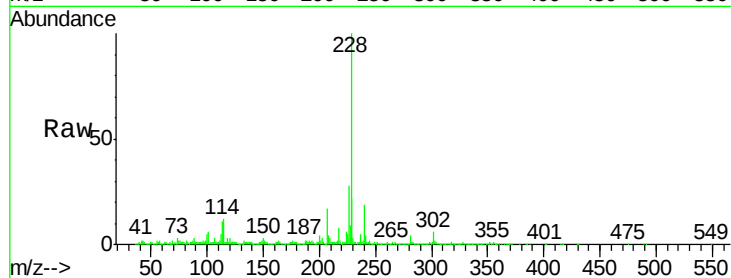
Tot Ion:228 Resp: 1381129

Ion	Ratio	Lower	Upper
228	100		
229	22.2	15.4	23.0
226	27.9	21.4	32.0

228 100

229 22.2 15.4 23.0

226 27.9 21.4 32.0

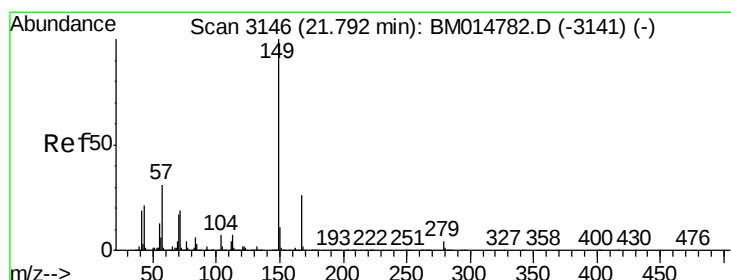
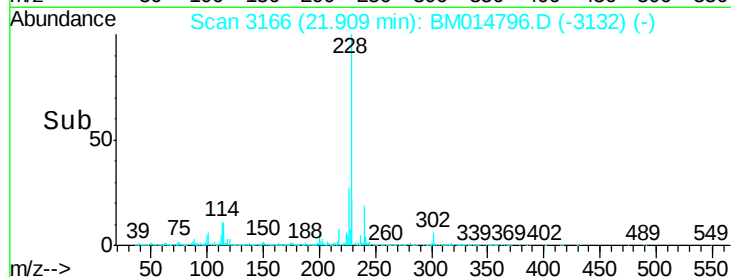
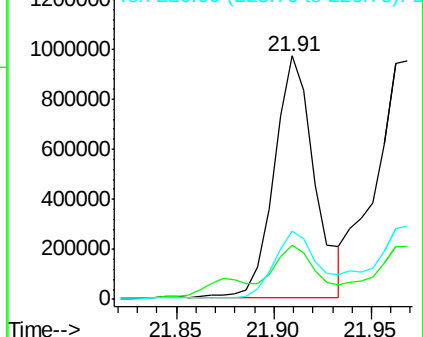


Abundance

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: 26.540 ng/ul

RT: 21.79 min Scan# 3146

Delta R.T. 0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

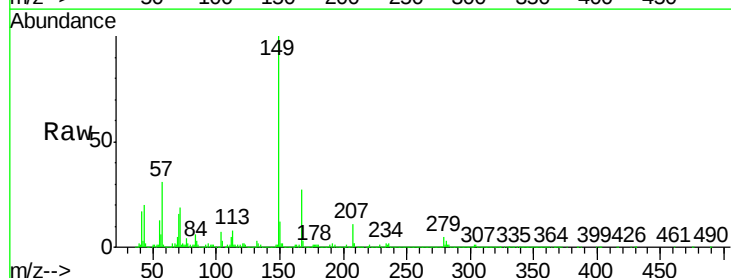
Tgt Ion:149 Resp: 1622680

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.8	34.2
279	4.5	4.9	7.3#

149 100

167 26.7 22.8 34.2

279 4.5 4.9 7.3#

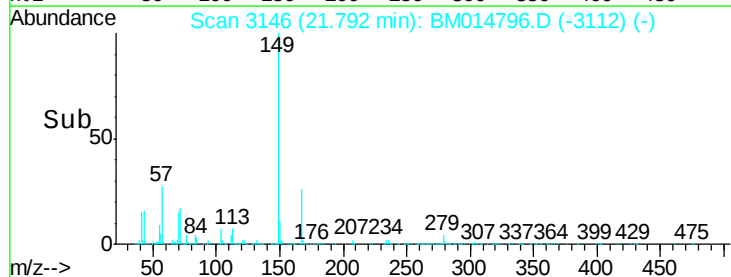
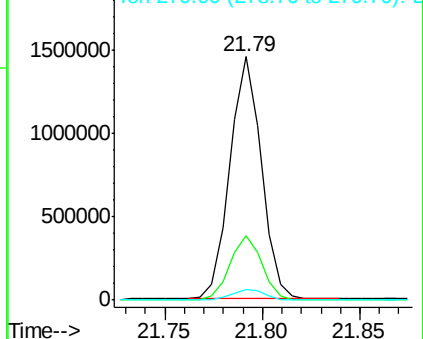


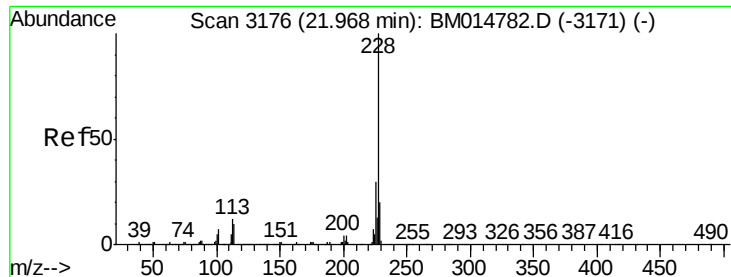
Abundance

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: 16.463 ng/ul

RT: 21.97 min Scan# 3176

Delta R.T. -0.00 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

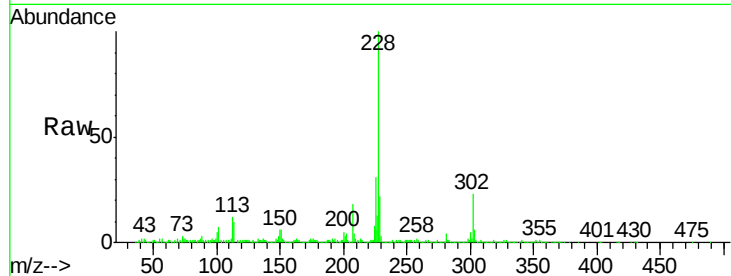
Tot Ion:228 Resp: 1574941

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.2

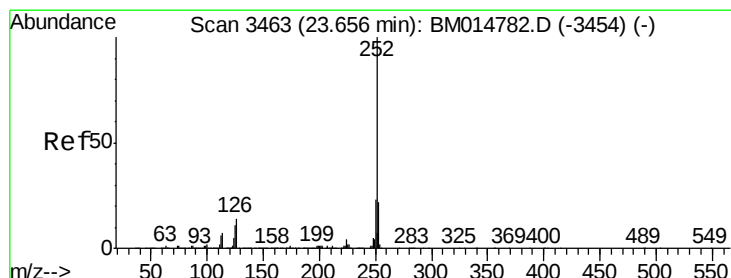
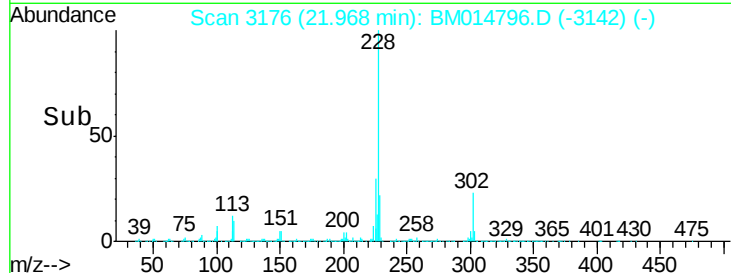
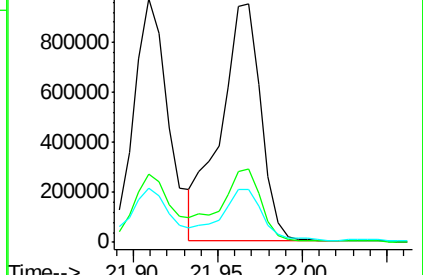
229 22.3 15.5 23.3



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



#85

Benzo(b)fluoranthene

Concen: 43.960 ng/ul

RT: 23.66 min Scan# 3464

Delta R.T. 0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

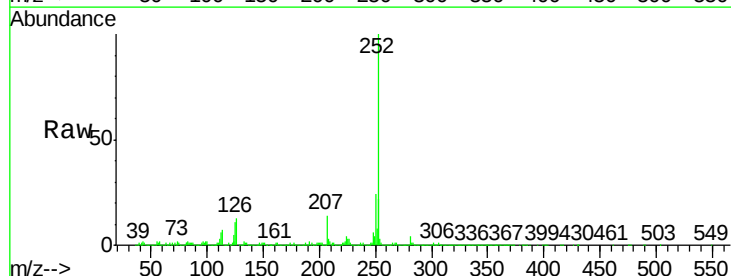
Tgt Ion:252 Resp: 4764952

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

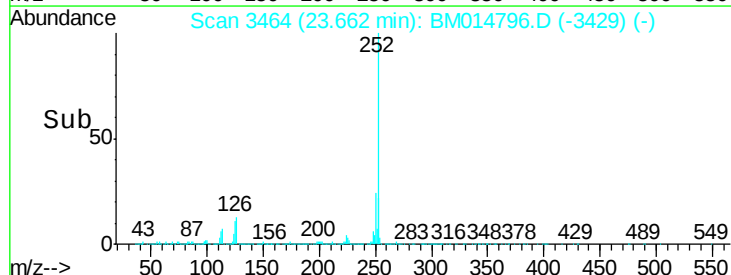
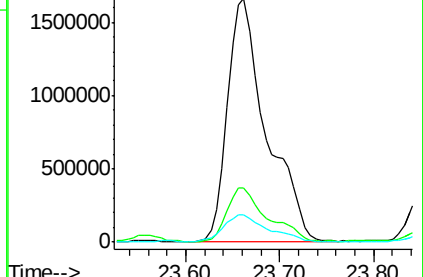
125 11.0 3.6 5.4#

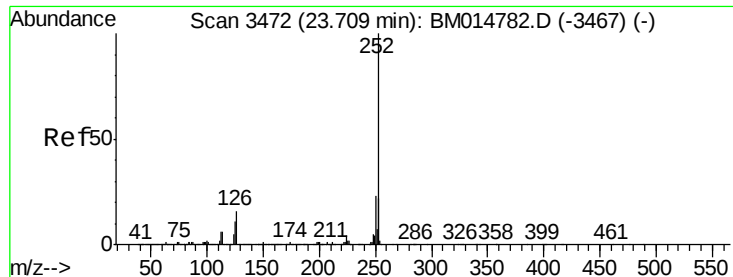


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

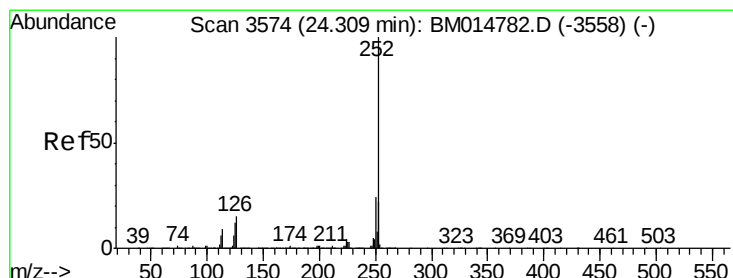
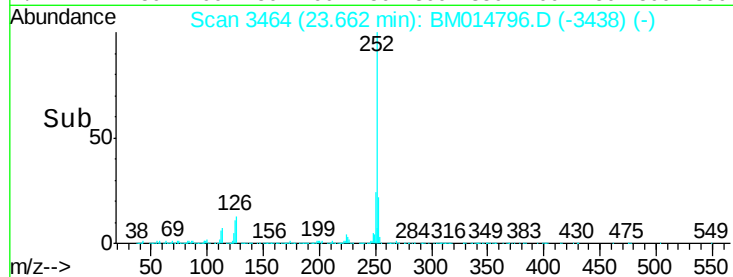
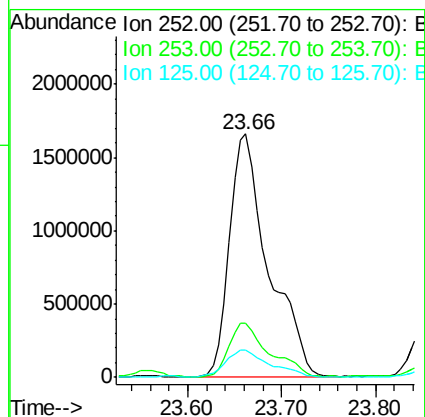
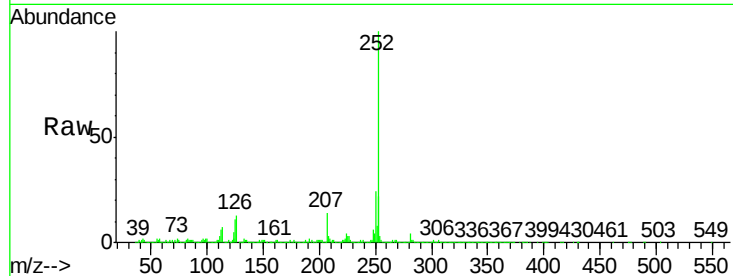




#86
Benzo(k)fluoranthene
Concen: 45.715 ng/ul
RT: 23.66 min Scan# 3464
Delta R.T. -0.05 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

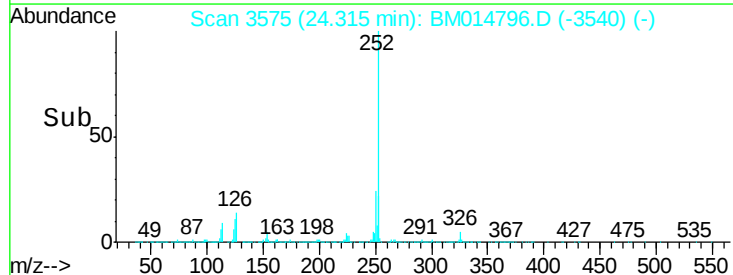
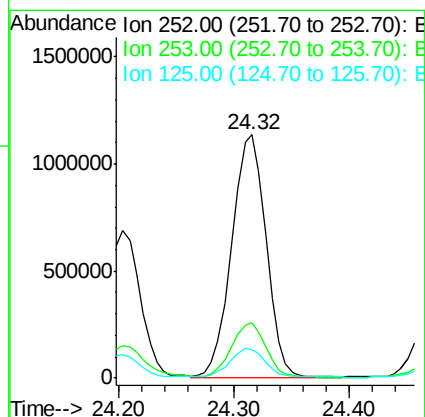
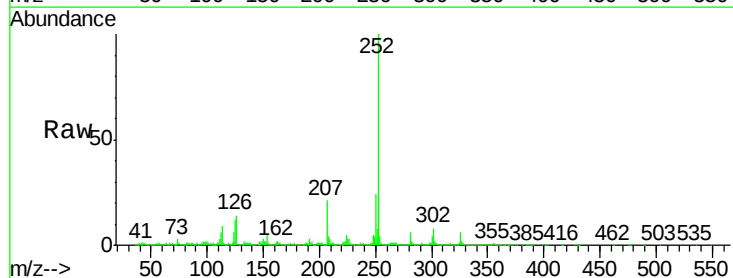
Instrument :
BNA_M
ClientSampleId :

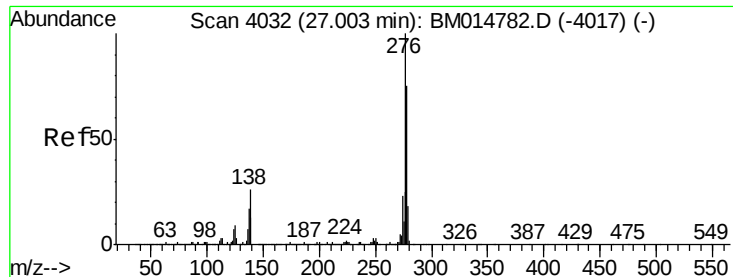
Tot Ion:252 Resp: 4764952
Ion Ratio Lower Upper
252 100
253 22.3 17.1 25.7
125 11.0 3.4 5.2#



#88
Benzo(a)pyrene
Concen: 22.623 ng/ul
RT: 24.32 min Scan# 3575
Delta R.T. 0.01 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

Tgt Ion:252 Resp: 2326130
Ion Ratio Lower Upper
252 100
253 22.7 18.2 27.2
125 11.8 4.0 6.0#



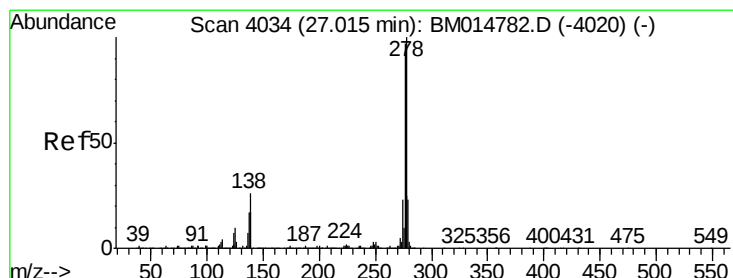
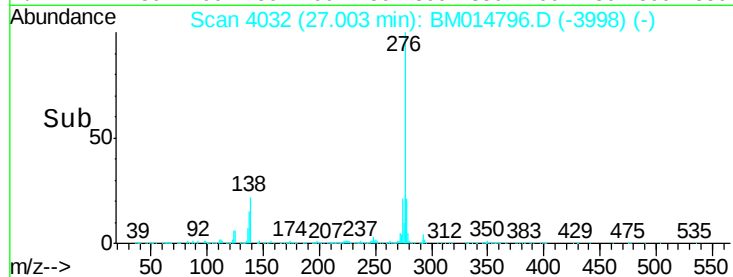
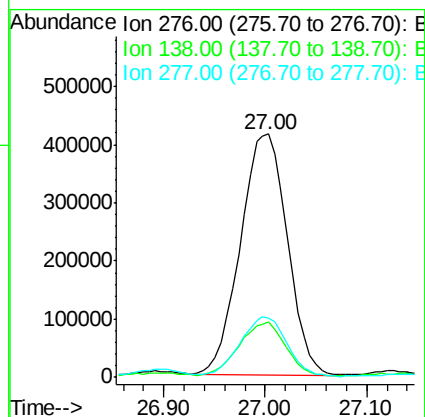
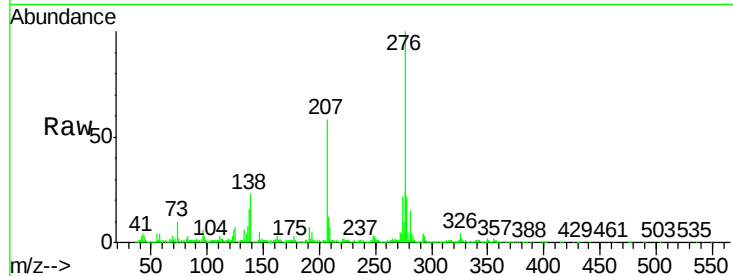


#89

Indeno(1,2,3-cd)pyrene
Concen: 10.743 ng/ul
RT: 27.00 min Scan# 4032
Delta R.T. -0.00 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

Instrument :
BNA_M
ClientSampled :

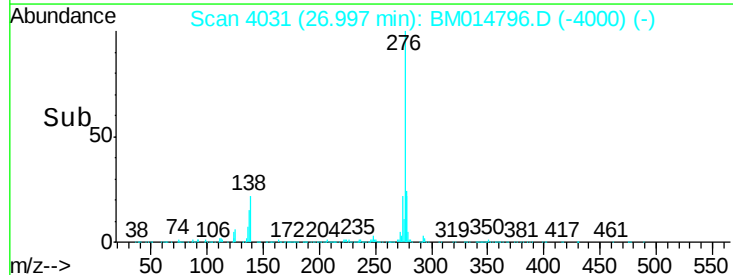
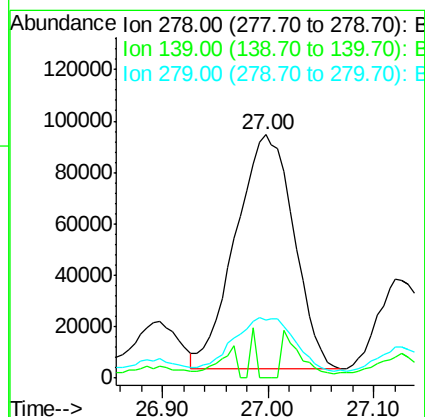
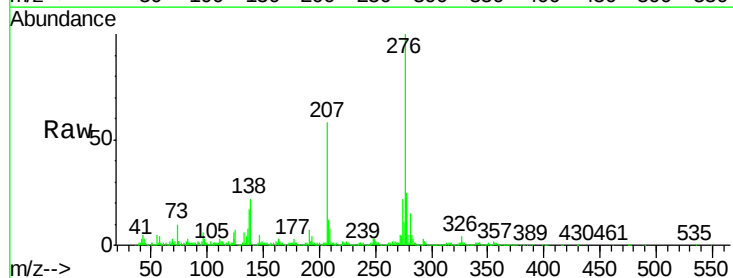
Tot Ion:276 Resp: 1336253
Ion Ratio Lower Upper
276 100
138 22.9 9.3 13.9#
277 24.3 19.9 29.9

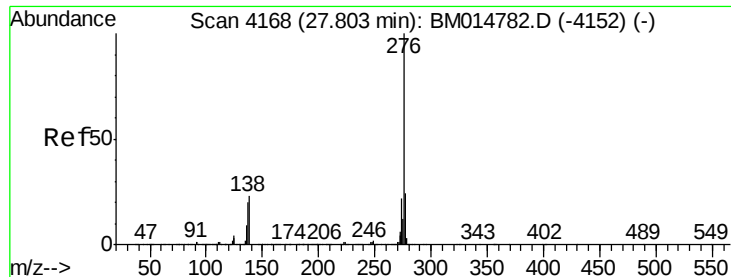


#90

Dibenzo(a,h)anthracene
Concen: 3.337 ng/ul
RT: 27.00 min Scan# 4031
Delta R.T. -0.02 min
Lab File: BM014796.D
Acq: 24 Apr 2018 03:17

Tgt Ion:278 Resp: 349458
Ion Ratio Lower Upper
278 100
139 0.0 5.8 8.8#
279 23.9 18.6 27.8





#91

Benzo(a,h,i)perylene

Concen: 9.325 ng/ul

RT: 27.80 min Scan# 4167

Delta R.T. -0.01 min

Lab File: BM014796.D

Acq: 24 Apr 2018 03:17

Instrument :

BNA_M

ClientSampleId :

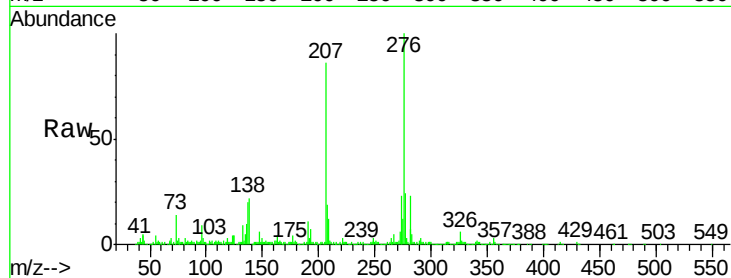
Tot Ion:276 Resp: 954262

Ion Ratio Lower Upper

276 100

138 22.1 8.5 12.7#

277 24.0 18.6 28.0



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

