

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121818\
 Data File : BM018274.D
 Acq On : 18 Dec 2018 16:59
 Operator : JU/SJ
 Sample : J6403-17DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 18 17:33:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 15 21:39:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.49	152	166540	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	702142	20.00	ng	-0.02
39) Acenaphthene-d10	14.14	164	386437	20.00	ng	-0.02
64) Phenanthrene-d10	16.91	188	747737	20.00	ng	-0.01
76) Chrysene-d12	21.13	240	628032	20.00	ng	-0.01
87) Perylene-d12	23.29	264	659048	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.12	112	84033	8.43	ng	0.00
7) Phenol-d6	6.69	99	113154	8.17	ng	-0.02
23) Nitrobenzene-d5	8.65	82	70441	5.15	ng	-0.01
42) 2,4,6-Tribromophenol	15.66	330	33598	5.92	ng	-0.01
45) 2-Fluorobiphenyl	12.75	172	149973	5.03	ng	-0.02
79) Terphenyl-d14	19.56	244	158033	5.69	ng	-0.01

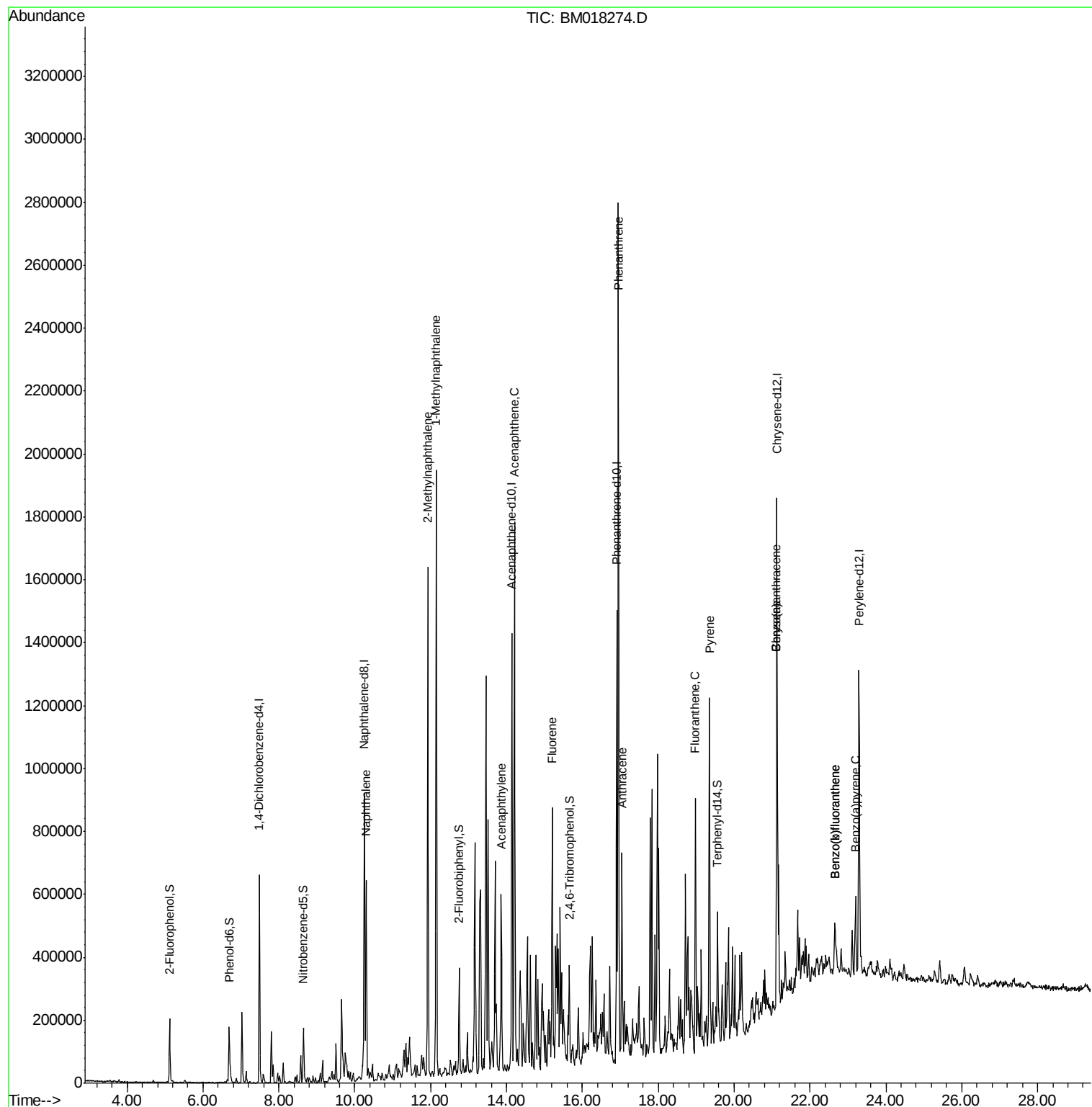
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.30	128	479480	13.966	ng	99
37) 2-Methylnaphthalene	11.93	142	723551	29.884	ng	98
38) 1-Methylnaphthalene	12.15	142	811503	34.348	ng	99
49) Acenaphthylene	13.86	152	97667	2.533	ng	# 80
52) Acenaphthene	14.21	154	570124	24.193	ng	98
58) Fluorene	15.20	166	326343	11.159	ng	99
71) Phenanthrene	16.95	178	1482834	36.509	ng	99
72) Anthracene	17.04	178	396234	9.834	ng	98
75) Fluoranthene	18.98	202	398102	8.431	ng	97
78) Pyrene	19.35	202	665516	17.784	ng	98
81) Benzo(a)anthracene	21.12	228	240158	6.546	ng	92
83) Chrysene	21.12	228	240158	6.806	ng	95
88) Benzo(b)fluoranthene	22.66	252	167905	4.535	ng	93
89) Benzo(k)fluoranthene	22.66	252	167209	4.535	ng	# 92
90) Benzo(a)pyrene	23.20	252	159739	4.537	ng	99

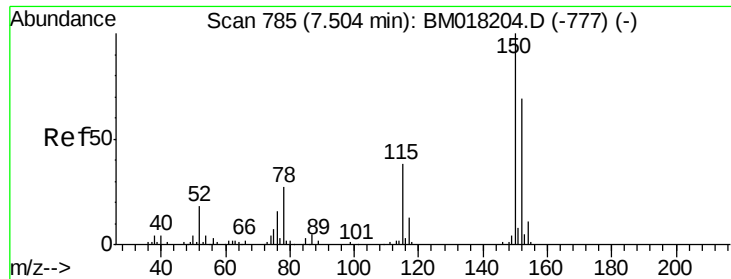
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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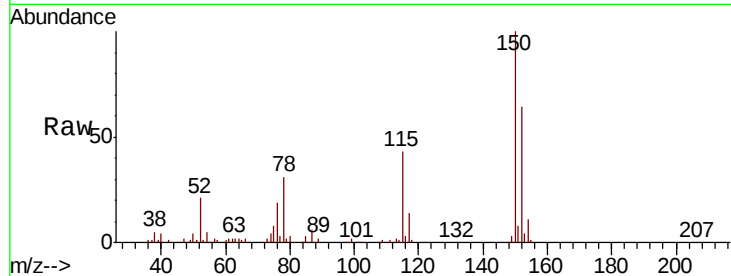


#1

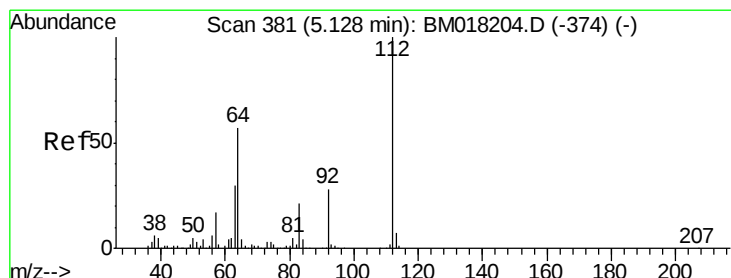
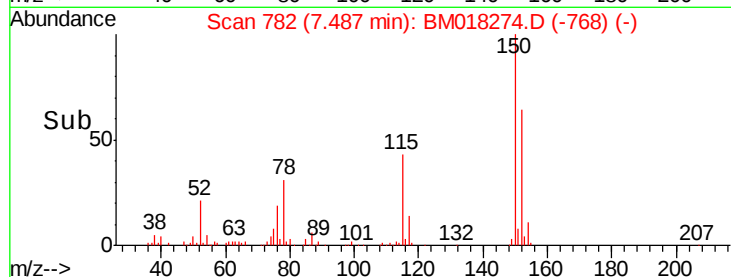
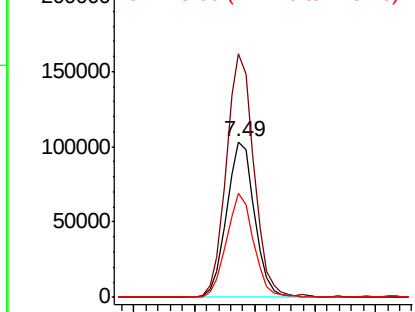
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.49 min Scan# 782
Delta R.T. -0.02 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Instrument :
BNA_M
ClientSampled :

Tot Ion:152 Resp: 166540
Ion Ratio Lower Upper
152 100
150 156.6 116.1 174.1
115 66.9 44.6 67.0



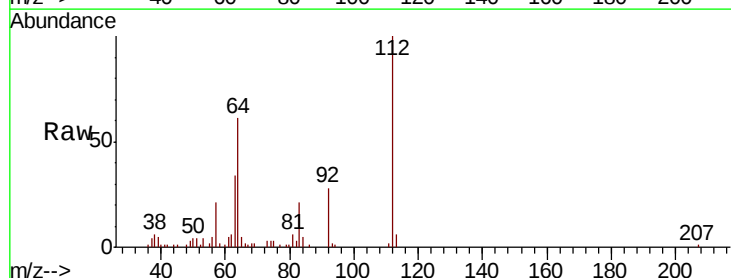
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



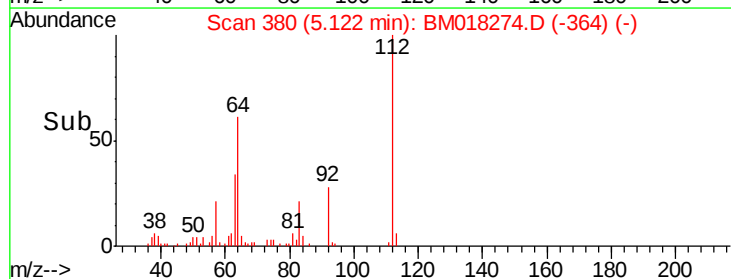
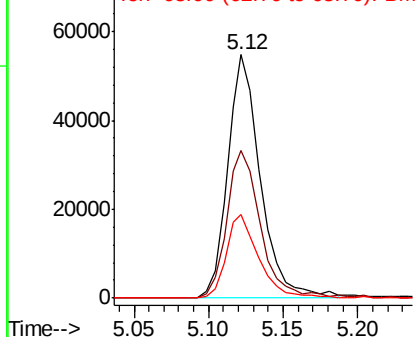
#5

2-Fluorophenol
Concen: 8.429 ng
RT: 5.12 min Scan# 380
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Tgt Ion:112 Resp: 84033
Ion Ratio Lower Upper
112 100
64 60.8 45.4 68.2
63 34.5 24.0 36.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 8.166 ng

RT: 6.69 min Scan# 646

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

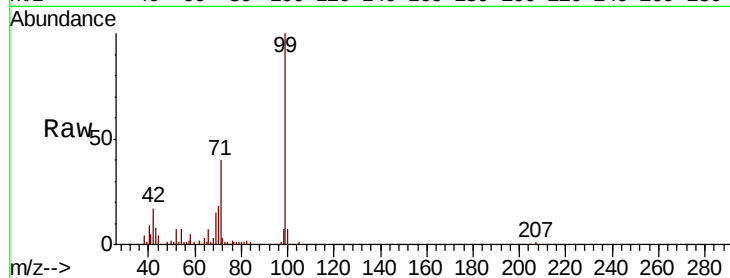
Tot Ion: 99 Resp: 113154

Ion Ratio Lower Upper

99 100

42 17.1 12.3 18.5

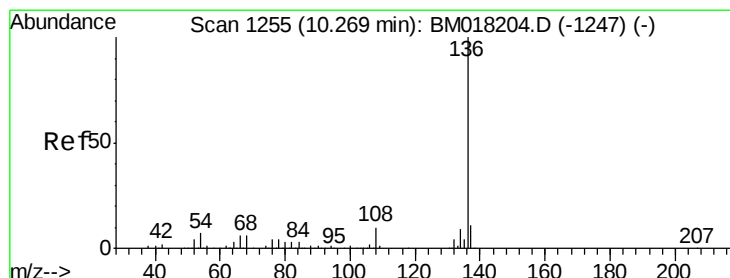
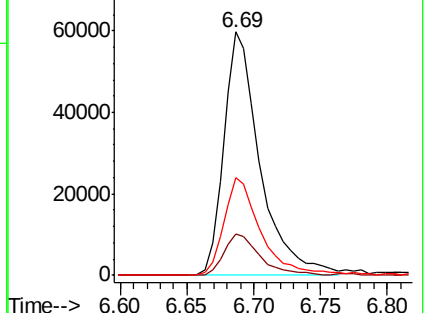
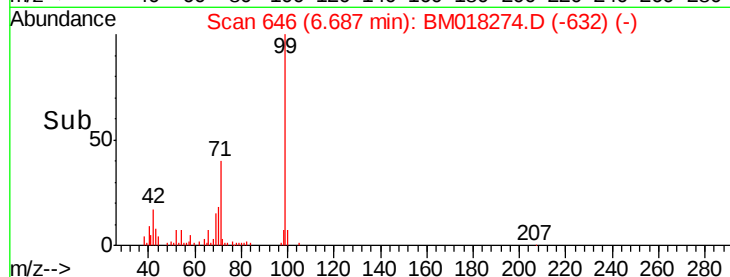
71 39.9 30.2 45.2



Abundance Ion 99.00 (98.70 to 99.70): BM018274.D (-632) (-)

Ion 42.00 (41.70 to 42.70): BM018274.D (-632) (-)

Ion 71.00 (70.70 to 71.70): BM018274.D (-632) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.25 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Tgt Ion: 136 Resp: 702142

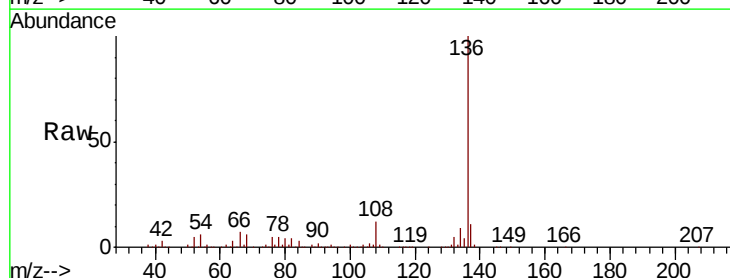
Ion Ratio Lower Upper

136 100

137 11.0 9.2 13.8

54 6.2 5.2 7.8

68 6.0 5.0 7.6

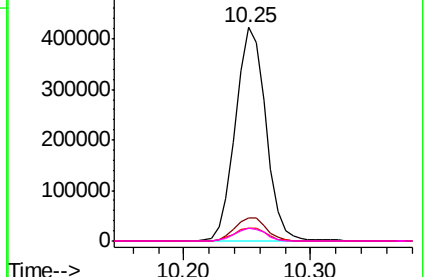
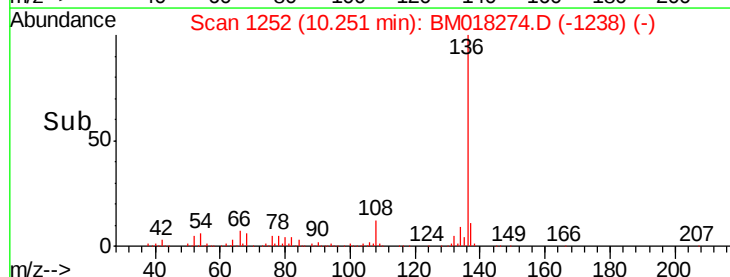


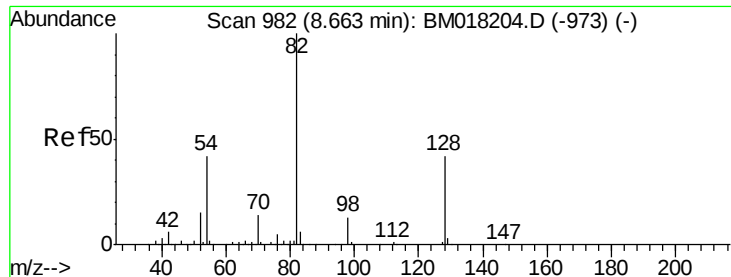
Abundance Ion 136.00 (135.70 to 136.70): BM018274.D (-1238) (-)

Ion 137.00 (136.70 to 137.70): BM018274.D (-1238) (-)

Ion 54.00 (53.70 to 54.70): BM018274.D (-1238) (-)

Ion 68.00 (67.70 to 68.70): BM018274.D (-1238) (-)

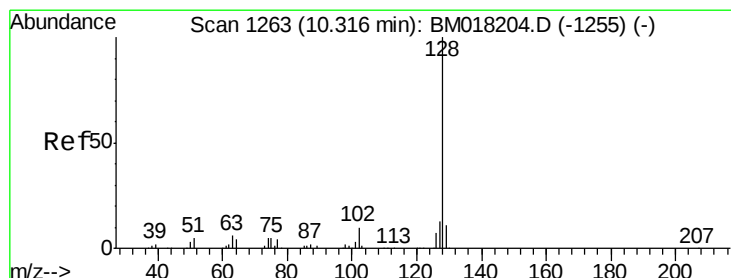
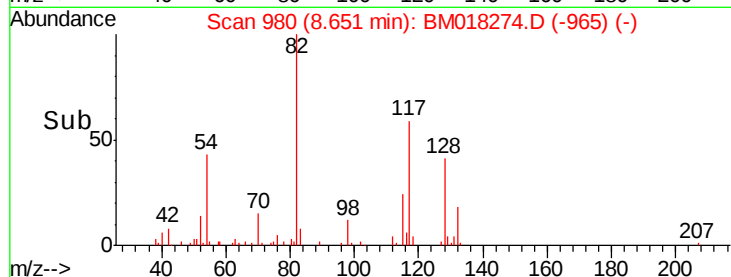
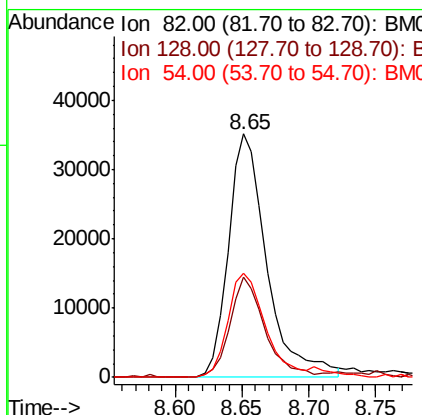
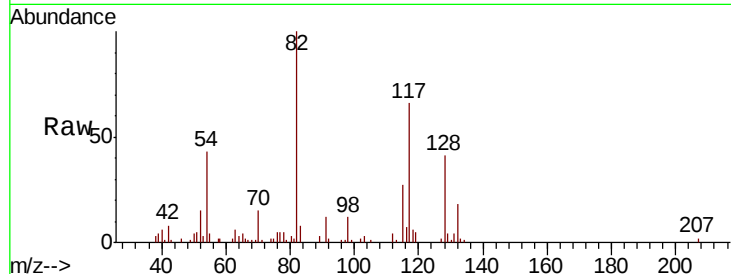




#23
Nitrobenzene-d5
Concen: 5.146 ng
RT: 8.65 min Scan# 980
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

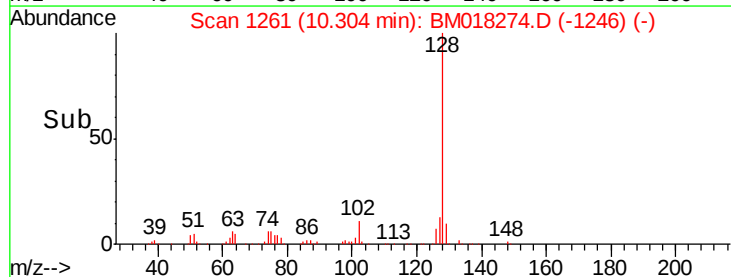
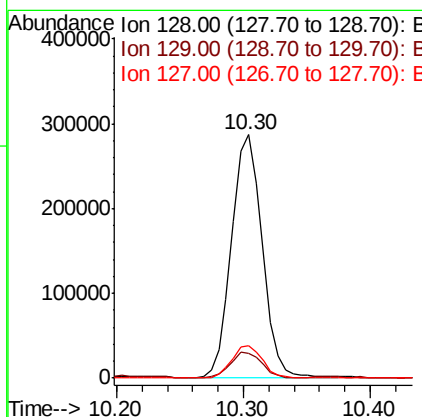
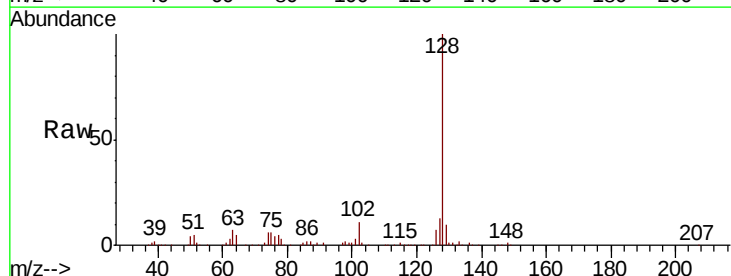
Instrument :
BNA_M
ClientSampled :

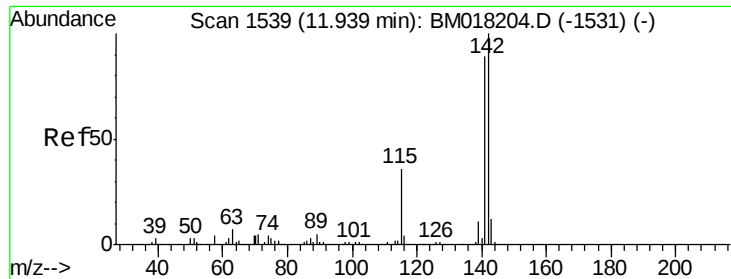
Tot Ion	82	Resp	70441
Ion Ratio	Lower	Upper	
82	100		
128	41.0	33.4	50.2
54	42.7	33.4	50.2



#31
Naphthalene
Concen: 13.966 ng
RT: 10.30 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Tgt Ion	128	Resp	479480
Ion Ratio	Lower	Upper	
128	100		
129	10.4	8.9	13.3
127	13.2	10.4	15.6

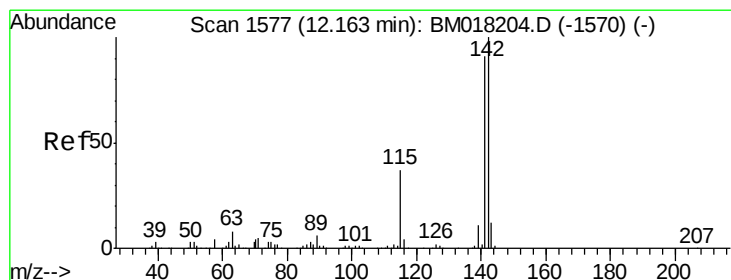
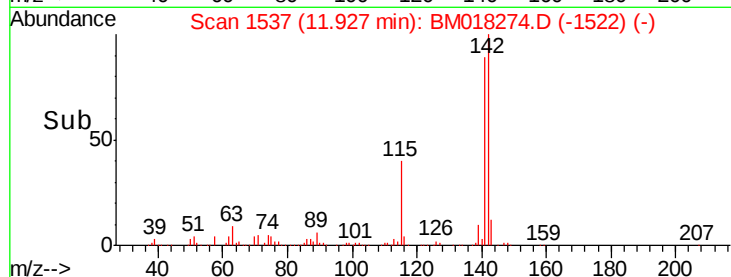
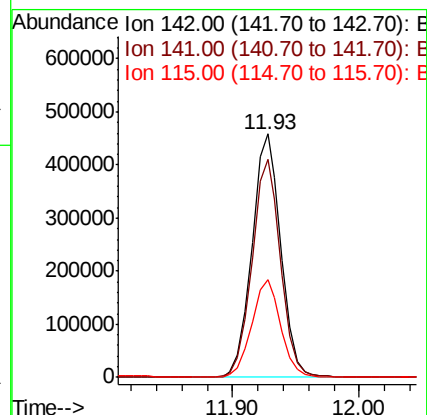
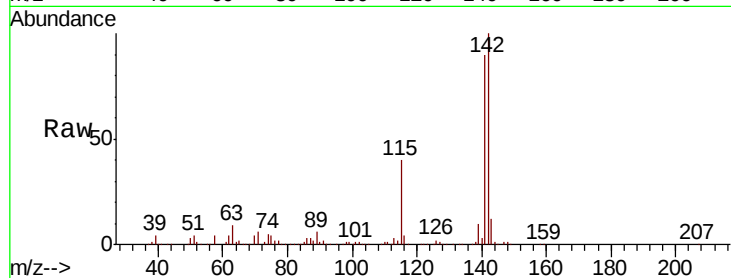




#37
2-Methylnaphthalene
Concen: 29.884 ng
RT: 11.93 min Scan# 1537
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

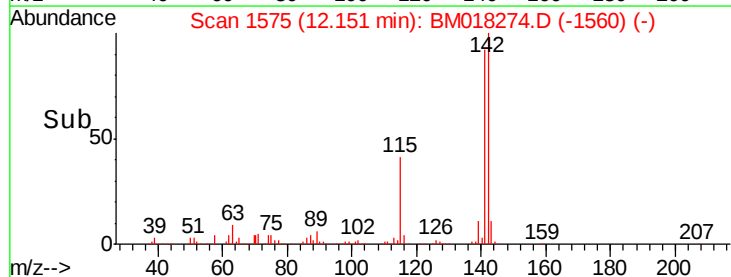
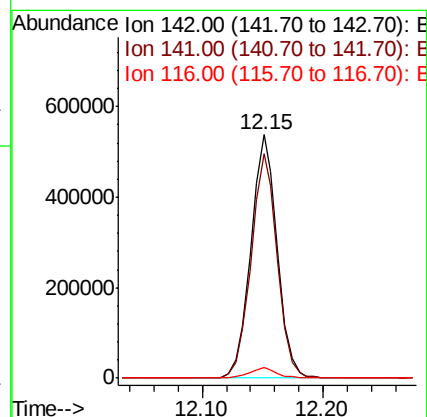
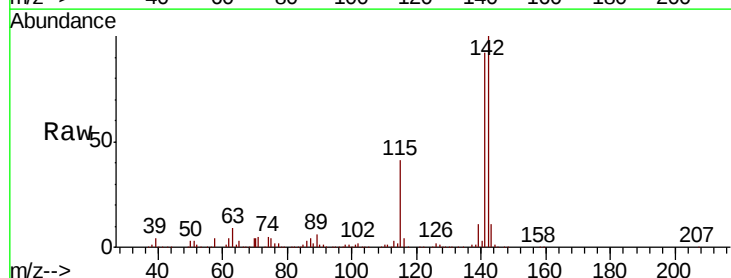
Instrument :
BNA_M
ClientSampleId :

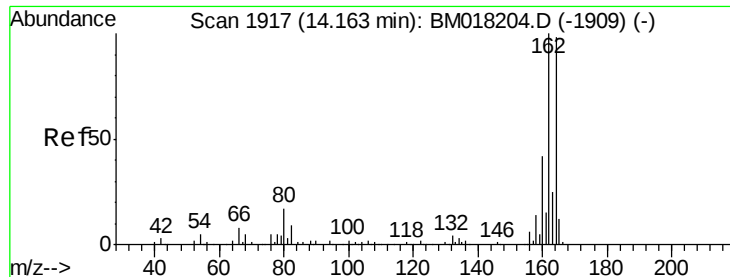
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.4	107.2
115	40.2	29.0	43.6



#38
1-Methylnaphthalene
Concen: 34.348 ng
RT: 12.15 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.0	109.4
116	4.2	3.0	4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.14 min Scan# 1914

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

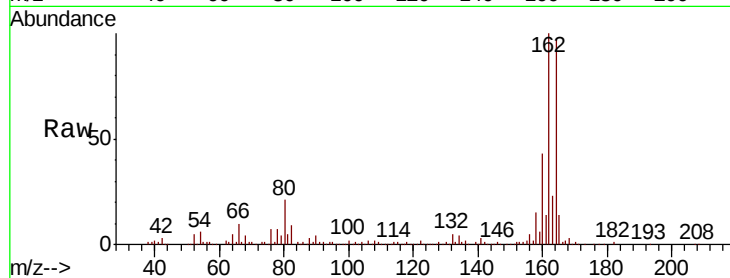
Tot Ion:164 Resp: 386437

Ion Ratio Lower Upper

164 100

162 103.5 81.8 122.6

160 44.7 34.6 51.8

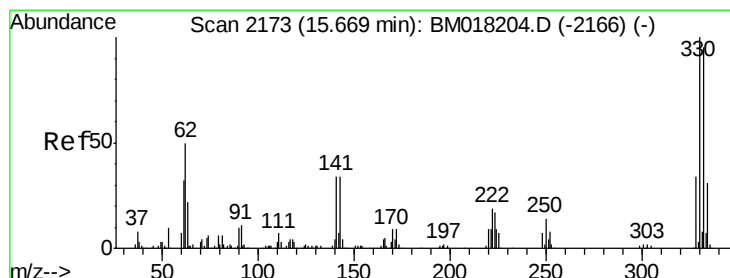
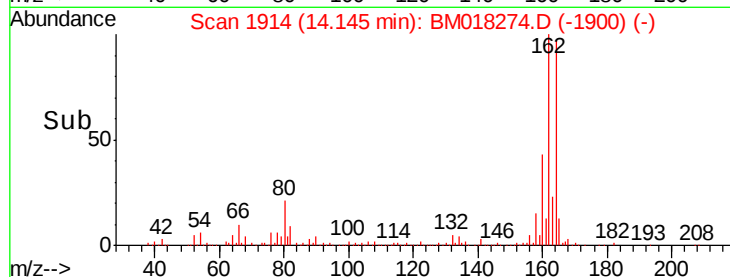
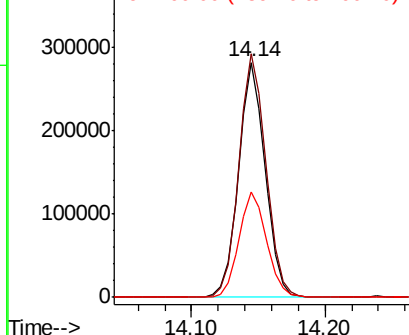


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 5.924 ng

RT: 15.66 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

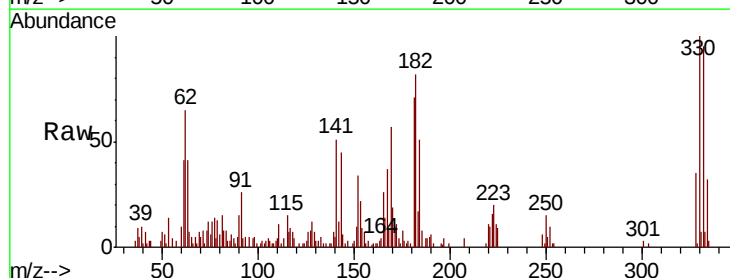
Tgt Ion:330 Resp: 33598

Ion Ratio Lower Upper

330 100

332 93.7 78.6 118.0

141 45.1 27.1 40.7#

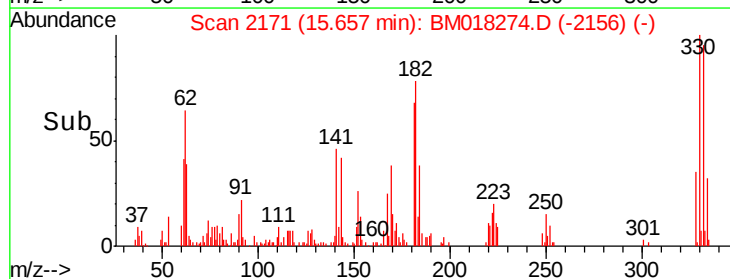
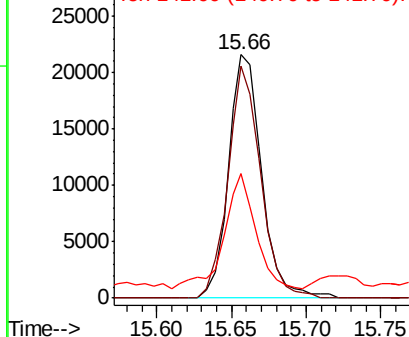


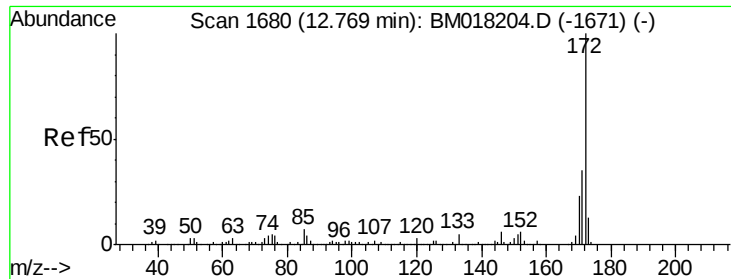
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

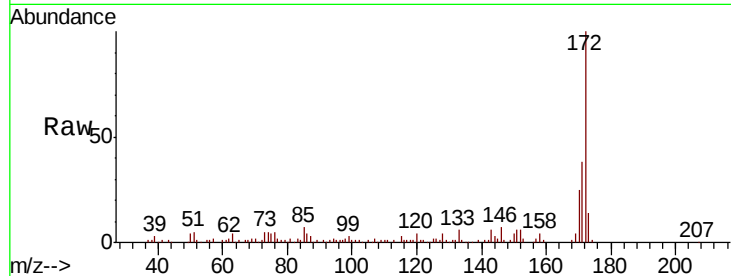




#45
 2-Fluorobiphenyl
 Concen: 5.027 ng
 RT: 12.75 min Scan# 1677
 Delta R.T. -0.02 min
 Lab File: BM018274.D
 Acq: 18 Dec 2018 16:59

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.8	28.3	42.5
170	24.6	18.1	27.1

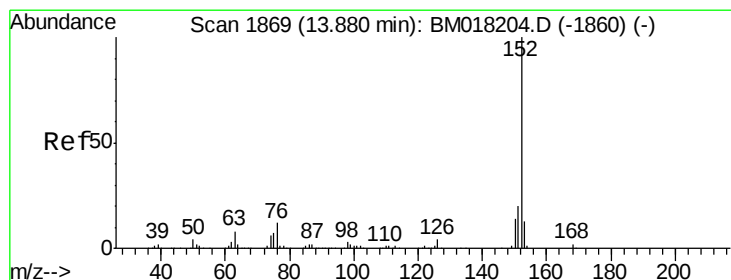
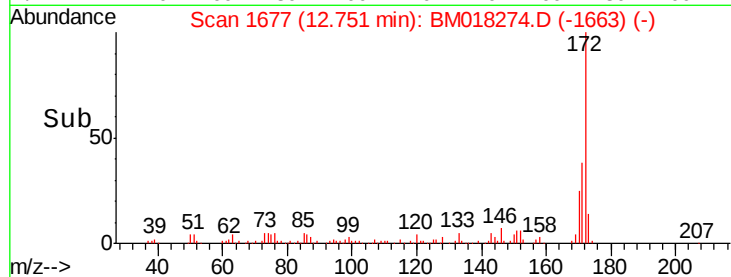
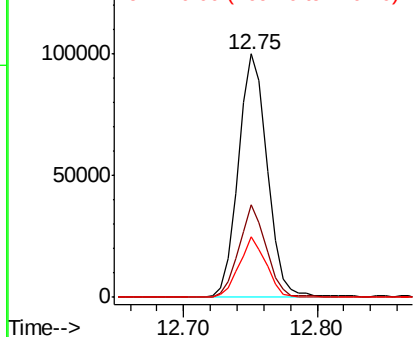


Abundance

Ion 172.00 (171.70 to 172.70): E

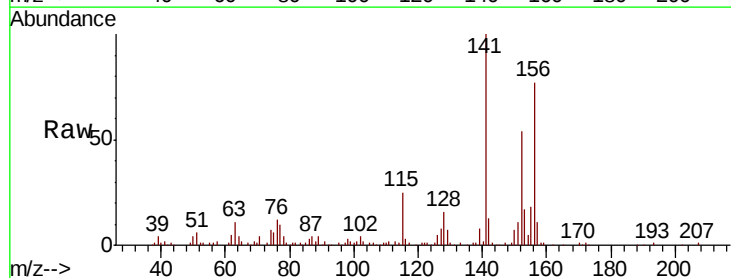
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
 Acenaphthylene
 Concen: 2.533 ng
 RT: 13.86 min Scan# 1866
 Delta R.T. -0.02 min
 Lab File: BM018274.D
 Acq: 18 Dec 2018 16:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.0	24.0
153	31.6	10.2	15.2#

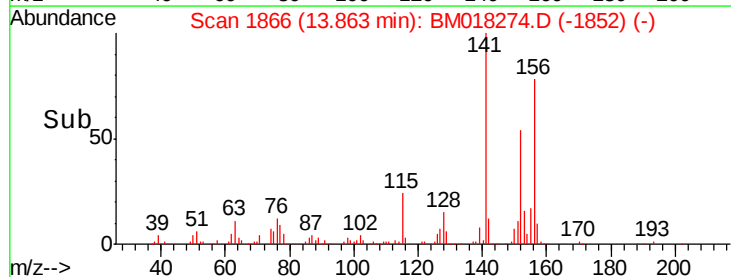
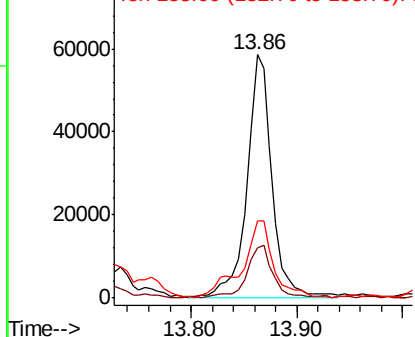


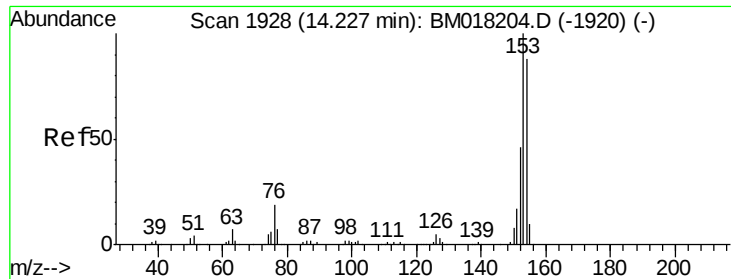
Abundance

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





#52

Acenaphthene

Concen: 24.193 ng

RT: 14.21 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

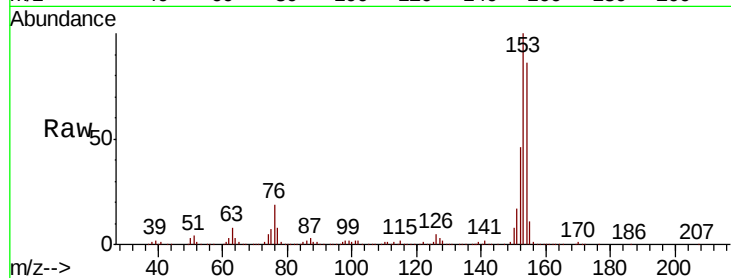
Tot Ion:154 Resp: 570124

Ion Ratio Lower Upper

154 100

153 115.9 90.4 135.6

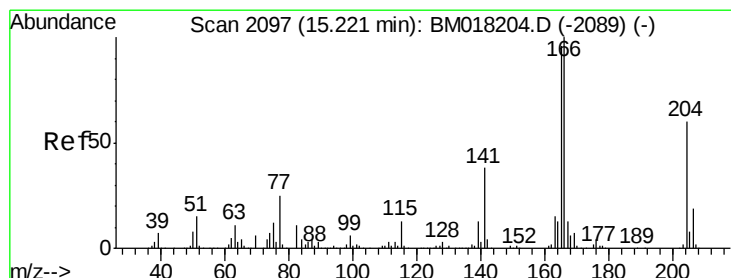
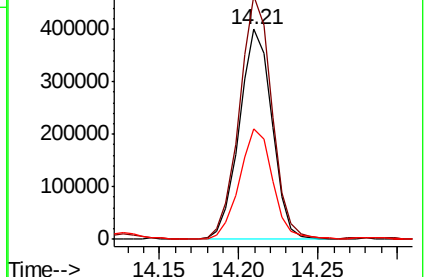
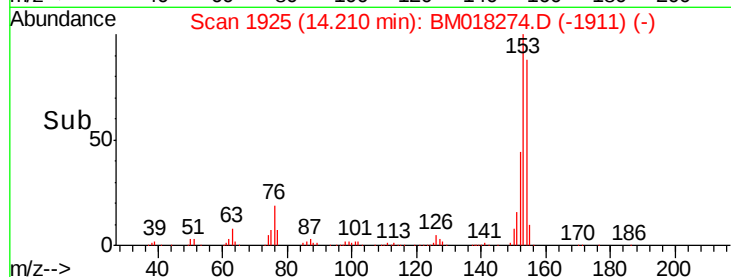
152 52.8 41.2 61.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 11.159 ng

RT: 15.20 min Scan# 2094

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

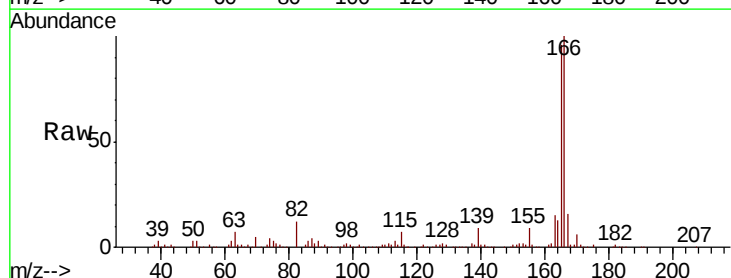
Tgt Ion:166 Resp: 326343

Ion Ratio Lower Upper

166 100

165 96.2 76.9 115.3

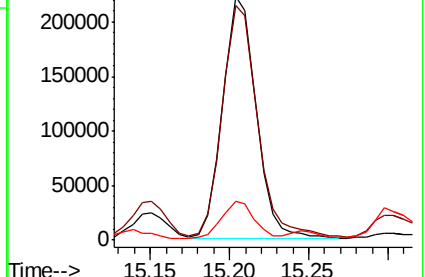
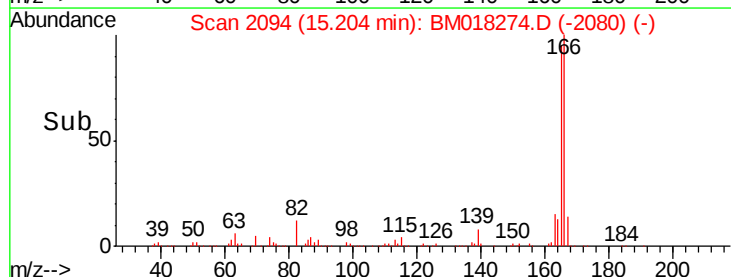
167 15.7 10.5 15.7

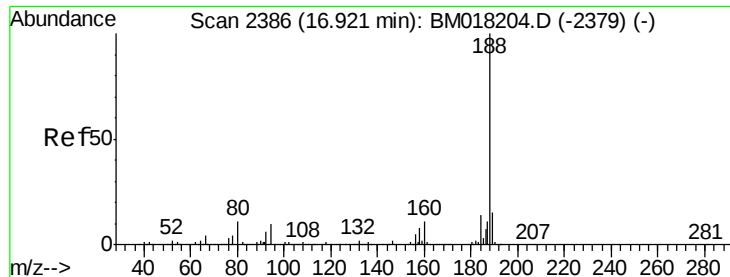


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.91 min Scan# 2384

Delta R.T. -0.01 min

Lab File: BM018274.D

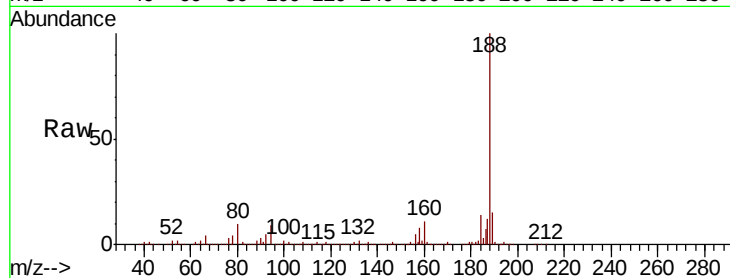
Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

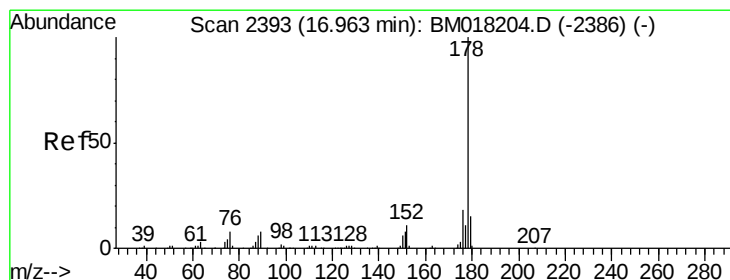
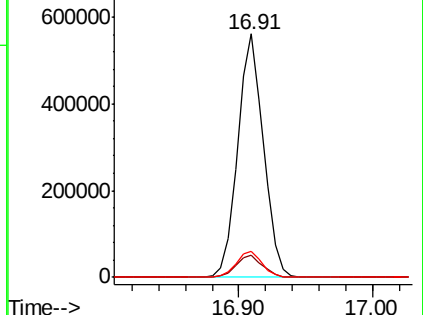
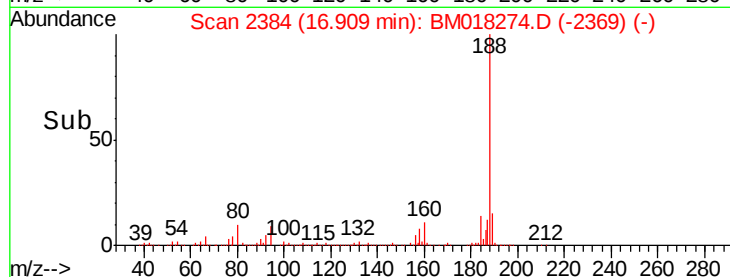
Tot Ion:188	Resp:	747737
Ion Ratio	Lower	Upper
188	100	
94	8.9	8.0 12.0
80	10.4	9.0 13.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 36.509 ng

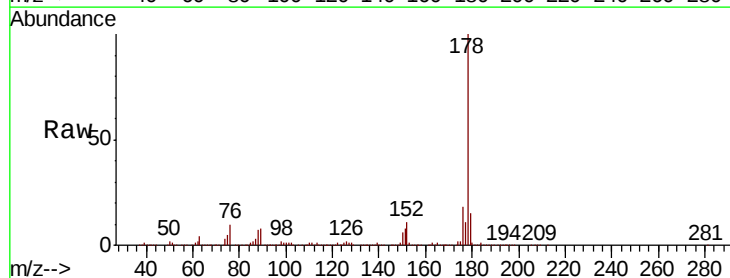
RT: 16.95 min Scan# 2391

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

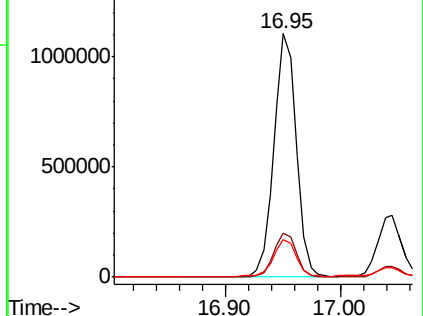
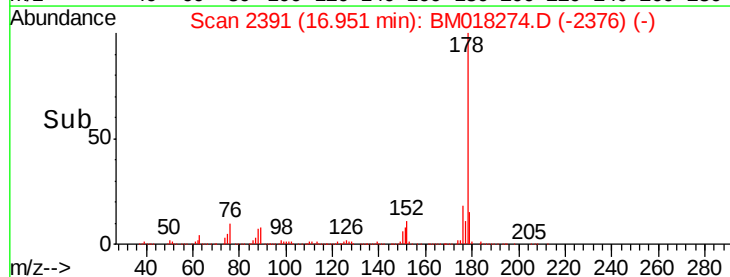
Tgt Ion:178	Resp:	1482834
Ion Ratio	Lower	Upper
178	100	
176	18.2	14.7 22.1
179	15.3	12.0 18.0

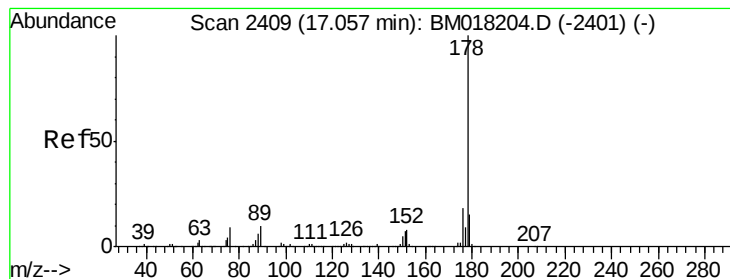


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 9.834 ng

RT: 17.04 min Scan# 2407

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampled :

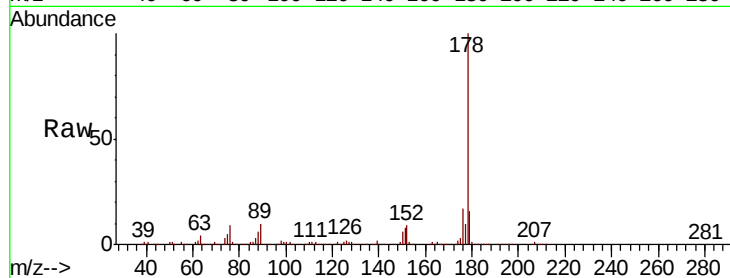
Tot Ion:178 Resp: 396234

Ion Ratio Lower Upper

178 100

176 16.9 14.3 21.5

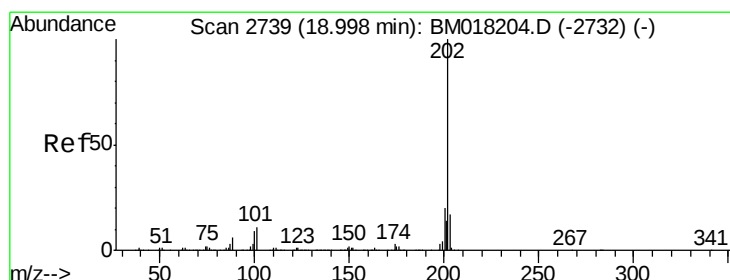
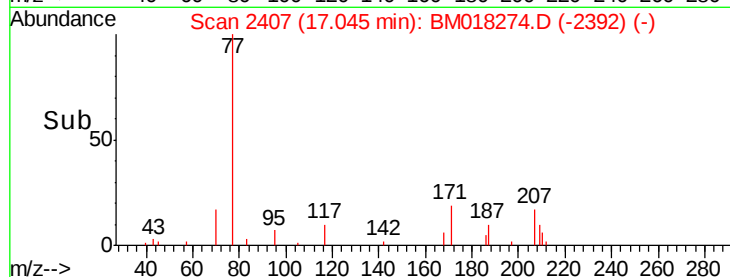
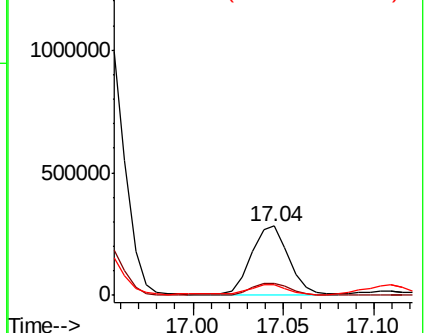
179 16.0 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 8.431 ng

RT: 18.98 min Scan# 2736

Delta R.T. -0.02 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

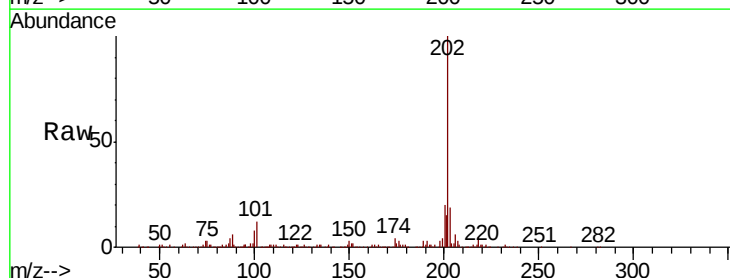
Tgt Ion:202 Resp: 398102

Ion Ratio Lower Upper

202 100

101 12.2 0.0 30.5

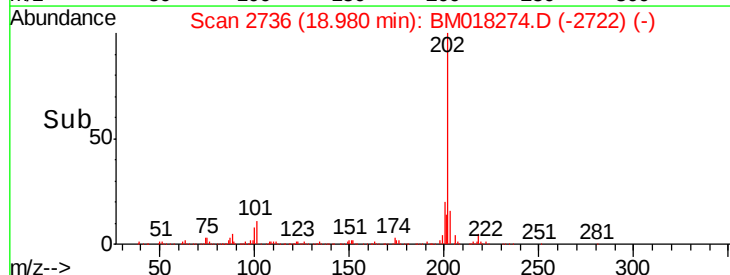
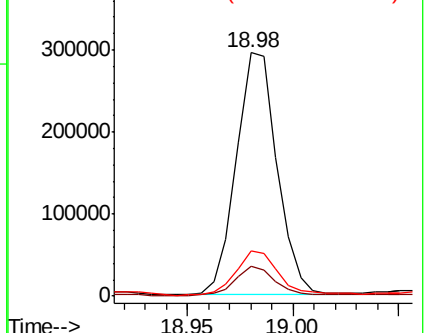
203 18.6 0.0 37.5

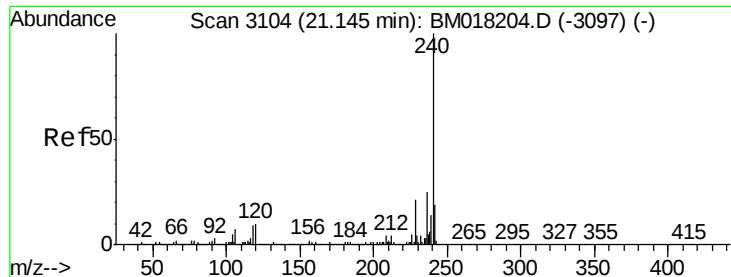


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

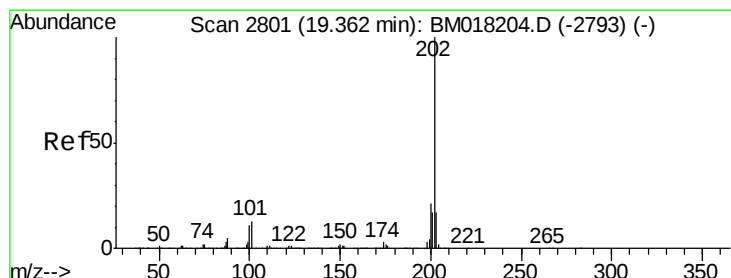
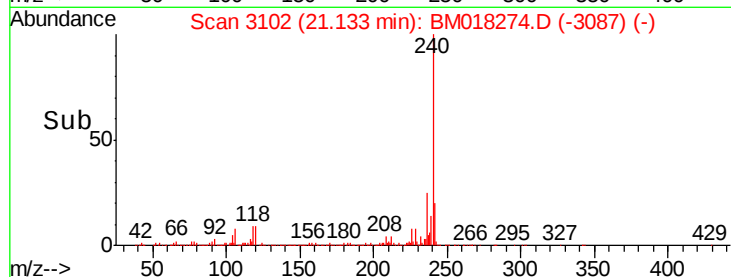
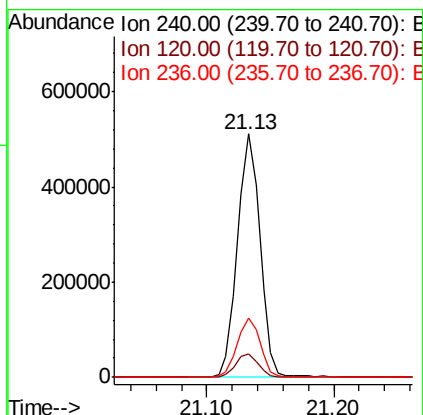
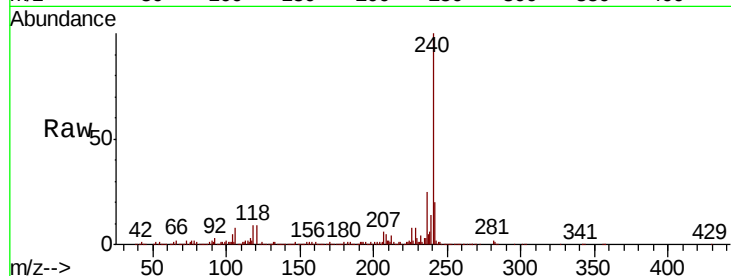




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.13 min Scan# 3102
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

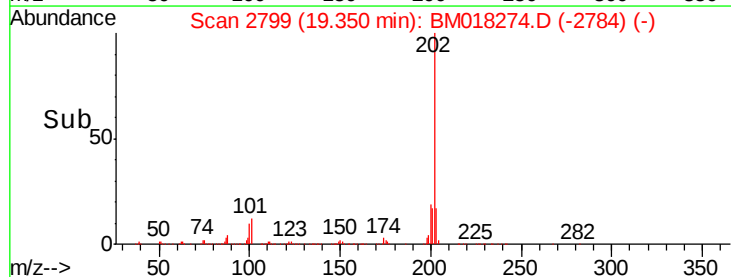
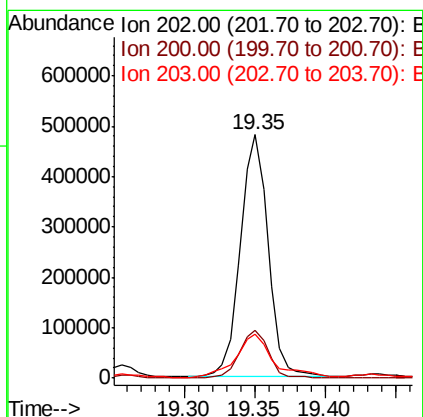
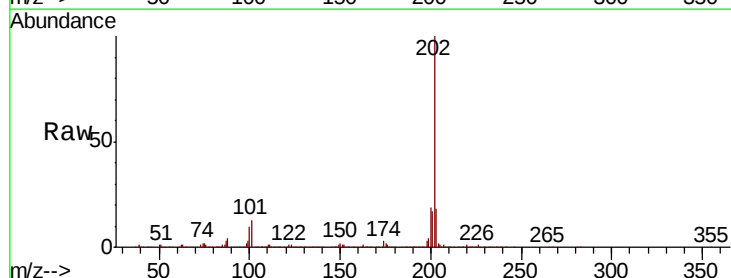
Instrument :
BNA_M
ClientSampleId :

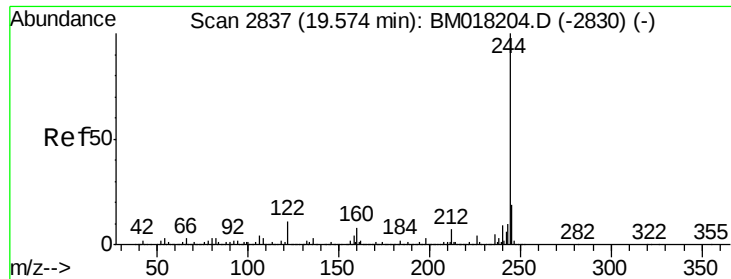
Tot Ion:240 Resp: 628032
Ion Ratio Lower Upper
240 100
120 9.4 8.2 12.2
236 24.6 20.3 30.5



#78
Pyrene
Concen: 17.784 ng
RT: 19.35 min Scan# 2799
Delta R.T. -0.01 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Tgt Ion:202 Resp: 665516
Ion Ratio Lower Upper
202 100
200 19.4 16.5 24.7
203 17.8 14.0 21.0





#79

Terphenyl-d14

Concen: 5.691 ng

RT: 19.56 min Scan# 2835

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

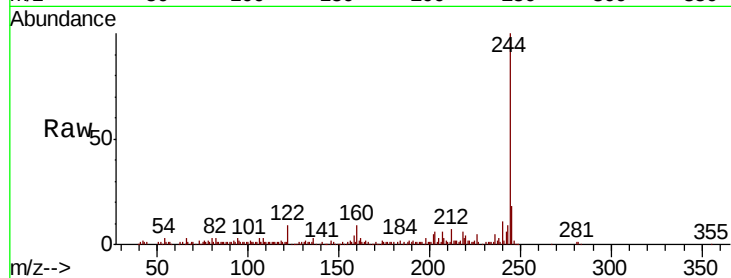
Tot Ion:244 Resp: 158033

Ion Ratio Lower Upper

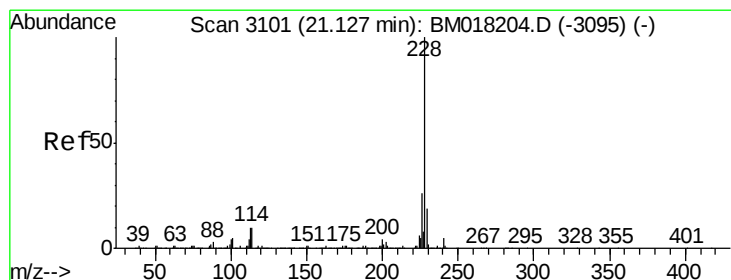
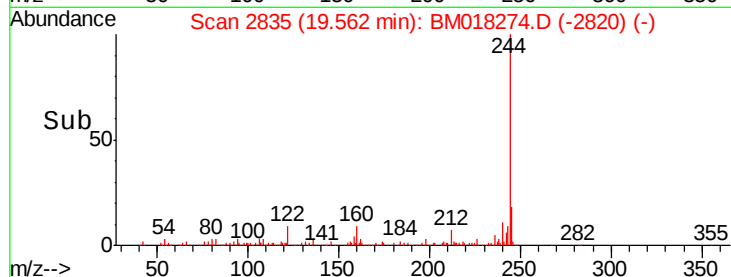
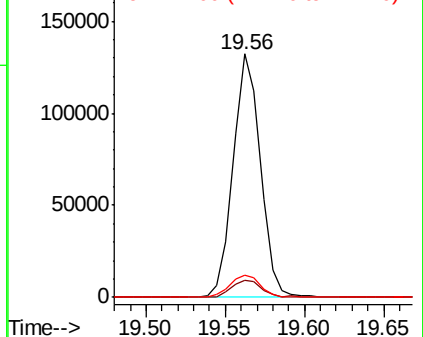
244 100

212 7.1 5.8 8.8

122 8.9 9.0 13.6#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 6.546 ng

RT: 21.12 min Scan# 3099

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

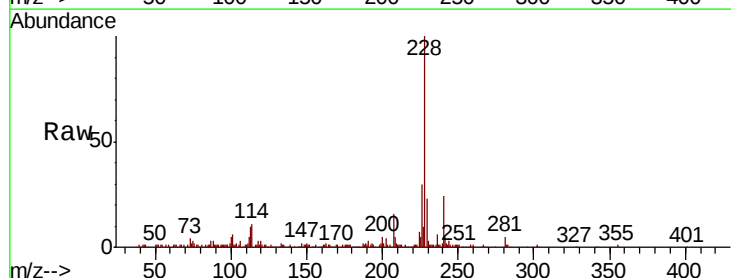
Tgt Ion:228 Resp: 240158

Ion Ratio Lower Upper

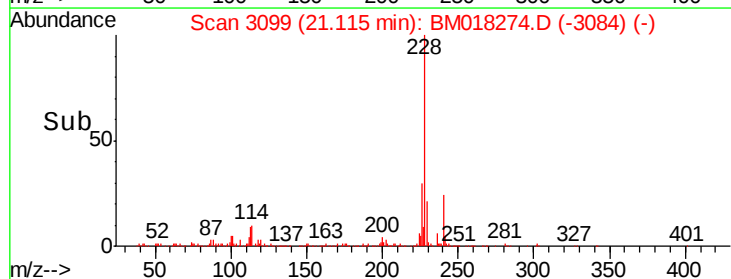
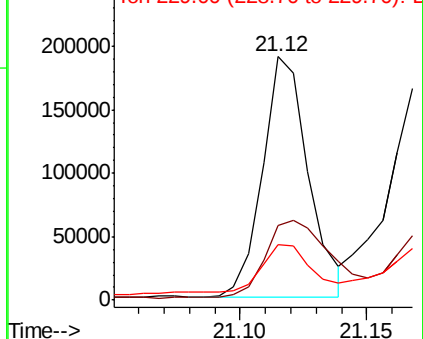
228 100

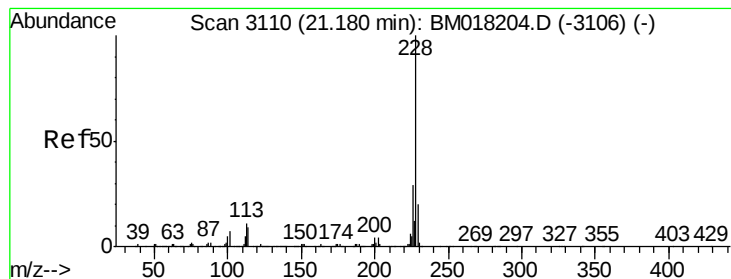
226 30.5 21.0 31.4

229 22.9 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





#83

Chrysene

Concen: 6.806 ng

RT: 21.12 min Scan# 3099

Delta R.T. -0.06 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampled :

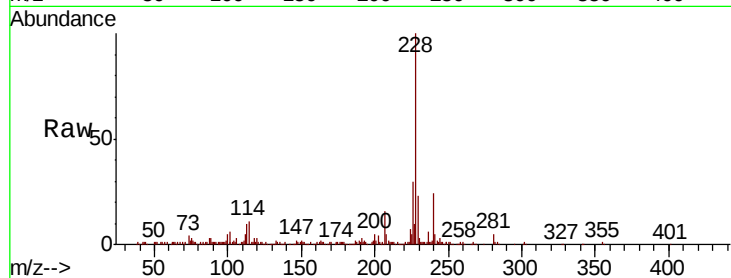
Tot Ion:228 Resp: 240158

Ion Ratio Lower Upper

228 100

226 30.5 23.1 34.7

229 22.9 15.8 23.6

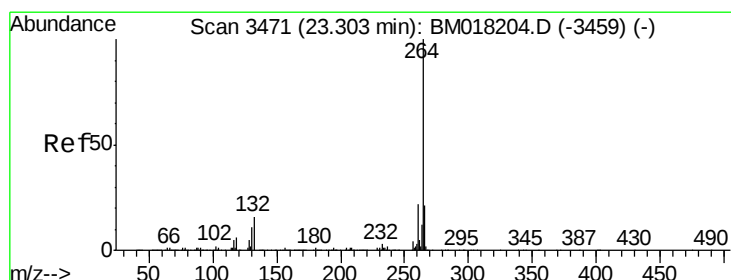
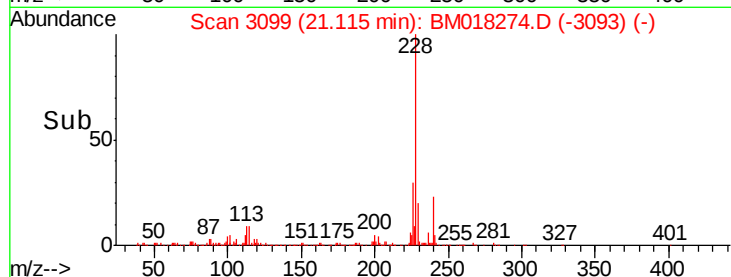
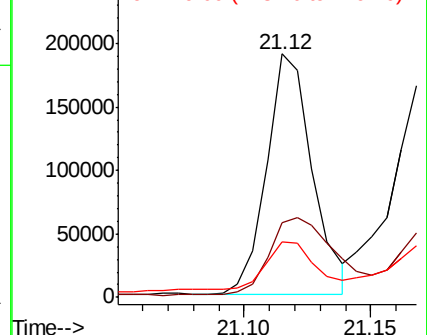


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 23.29 min Scan# 3469

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

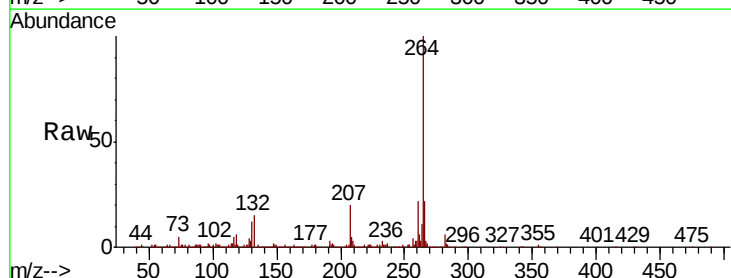
Tgt Ion:264 Resp: 659048

Ion Ratio Lower Upper

264 100

260 22.0 17.5 26.3

265 22.4 17.3 25.9

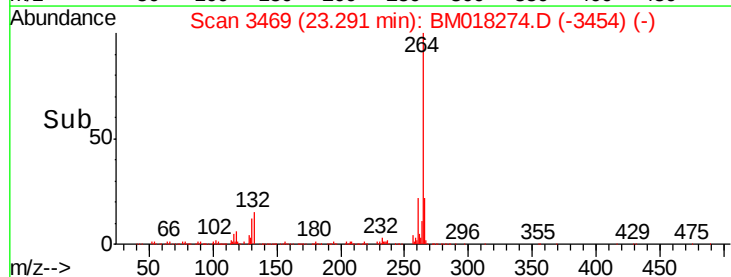
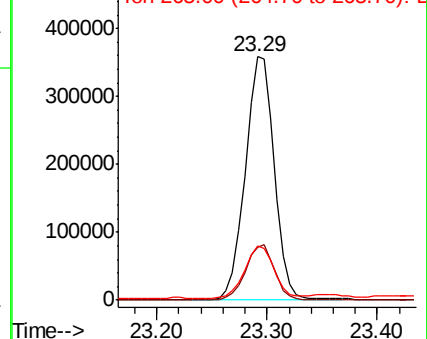


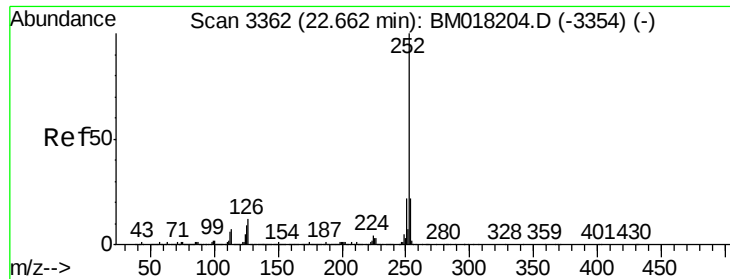
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

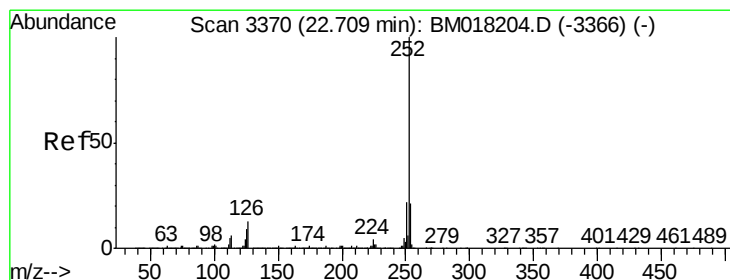
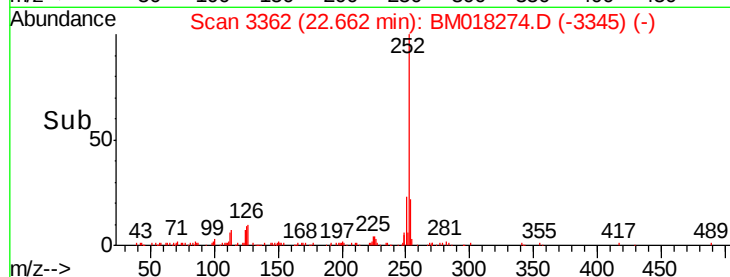
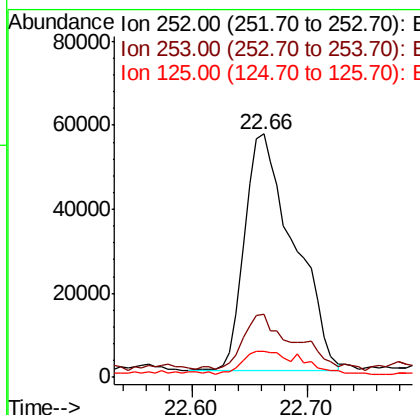
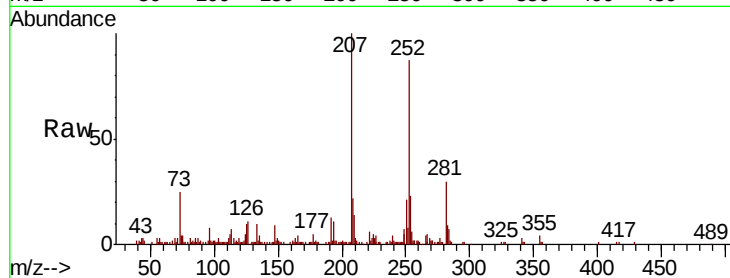




#88
Benzo(b)fluoranthene
Concen: 4.535 ng
RT: 22.66 min Scan# 3362
Delta R.T. -0.00 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

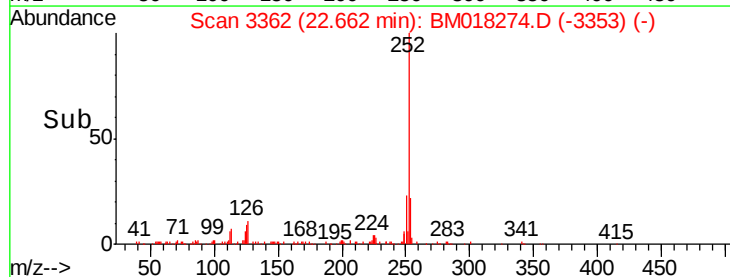
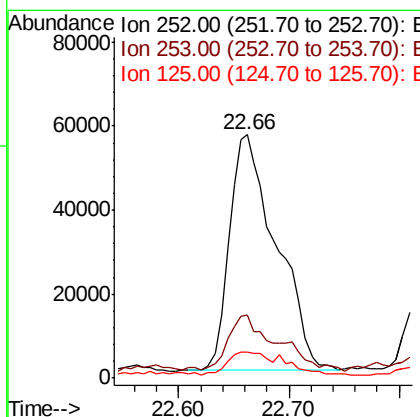
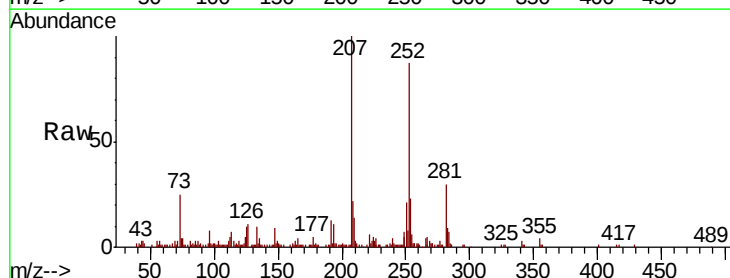
Instrument :
BNA_M
ClientSampleId :

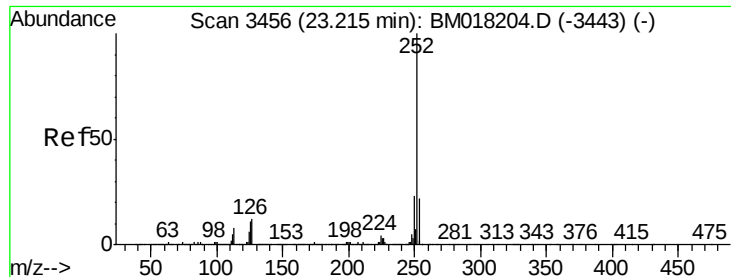
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.6	26.4
125	10.9	7.4	11.0



#89
Benzo(k)fluoranthene
Concen: 4.535 ng
RT: 22.66 min Scan# 3362
Delta R.T. -0.05 min
Lab File: BM018274.D
Acq: 18 Dec 2018 16:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	16.9	25.3#
125	10.9	7.5	11.3





#90

Benzo(a)pyrene

Concen: 4.537 ng

RT: 23.20 min Scan# 3454

Delta R.T. -0.01 min

Lab File: BM018274.D

Acq: 18 Dec 2018 16:59

Instrument :

BNA_M

ClientSampleId :

Tot Ion: 252 Resp: 159739

Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 10.8 8.6 12.8

