

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121818\
 Data File : BM018275.D
 Acq On : 18 Dec 2018 17:35
 Operator : JU/SJ
 Sample : J6403-21DL 25X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 18 18:08:32 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	148377	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	607012	20.00	ng	-0.02
39) Acenaphthene-d10	14.15	164	313623	20.00	ng	-0.02
64) Phenanthrene-d10	16.91	188	610629	20.00	ng	-0.01
76) Chrysene-d12	21.13	240	615878	20.00	ng	-0.02
87) Perylene-d12	23.29	264	666390	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	28104	3.16	ng	0.00
7) Phenol-d6	6.70	99	31733	2.57	ng	0.00
23) Nitrobenzene-d5	8.66	82	20030	1.69	ng	0.00
42) 2,4,6-Tribromophenol	15.66	330	9013	1.96	ng	0.00
45) 2-Fluorobiphenyl	12.75	172	41711	1.72	ng	-0.02
79) Terphenyl-d14	19.56	244	51488	1.89	ng	-0.01

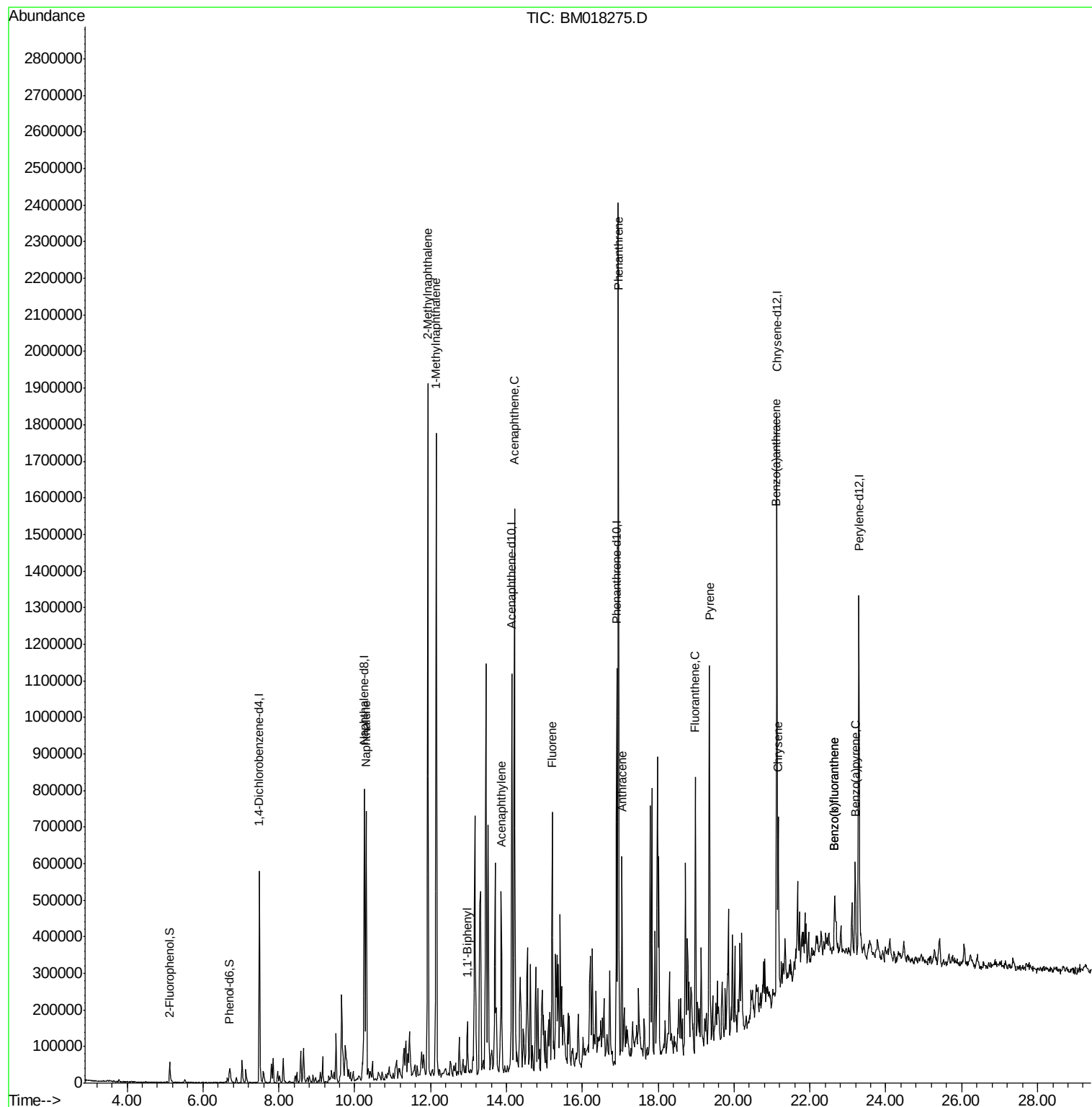
Target Compounds				Qvalue		
31) Naphthalene	10.30	128	555021	18.699	ng	99
37) 2-Methylnaphthalene	11.93	142	835668	39.923	ng	97
38) 1-Methylnaphthalene	12.15	142	779976	38.187	ng	100
46) 1,1'-Biphenyl	12.96	154	71342	2.529	ng	95
49) Acenaphthylene	13.86	152	93541	2.989	ng	# 78
52) Acenaphthene	14.21	154	499718	26.129	ng	98
58) Fluorene	15.20	166	274789	11.577	ng	99
71) Phenanthrene	16.95	178	1255558	37.854	ng	99
72) Anthracene	17.05	178	339804	10.327	ng	98
75) Fluoranthene	18.98	202	364331	9.448	ng	98
78) Pyrene	19.35	202	617112	16.816	ng	99
81) Benzo(a)anthracene	21.12	228	251135	6.981	ng	# 90
83) Chrysene	21.17	228	241528	6.980	ng	# 96
88) Benzo(b)fluoranthene	22.66	252	172637	4.612	ng	95
89) Benzo(k)fluoranthene	22.66	252	170133	4.564	ng	94
90) Benzo(a)pyrene	23.20	252	163954	4.605	ng	97

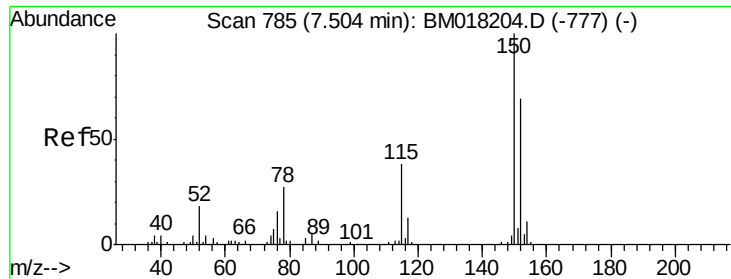
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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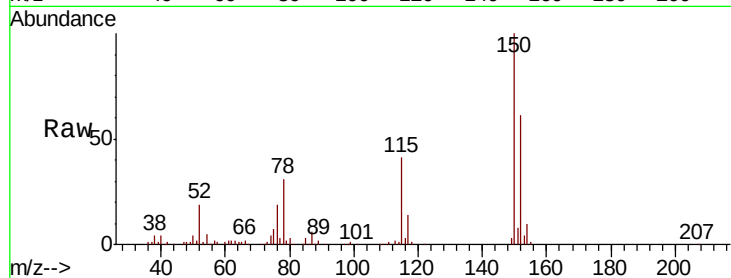


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.49 min Scan# 782
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.1	116.1	174.1
115	67.6	44.6	67.0

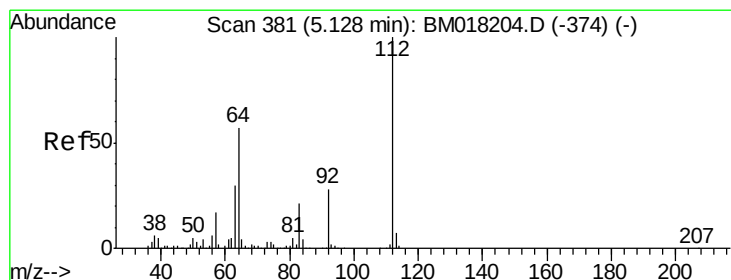
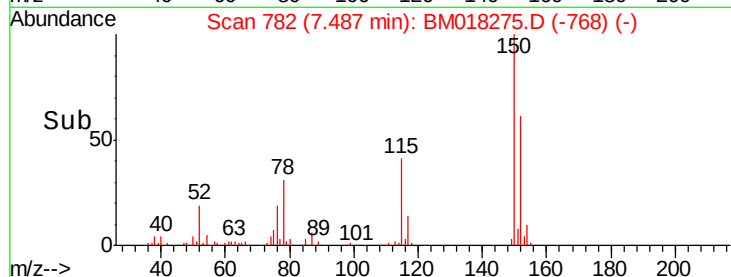
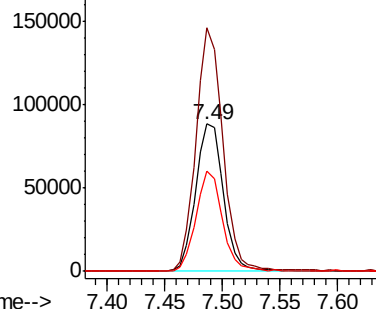


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

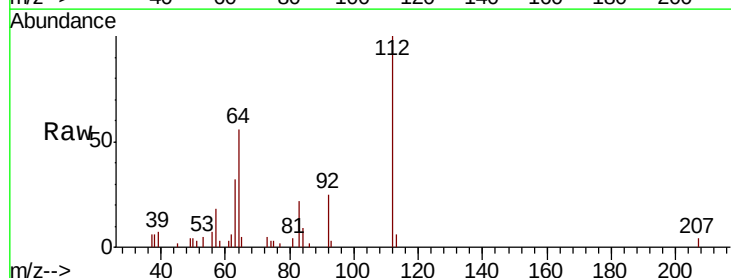
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 3.164 ng
RT: 5.13 min Scan# 381
Delta R.T. 0.00 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	45.4	68.2
63	31.8	24.0	36.0

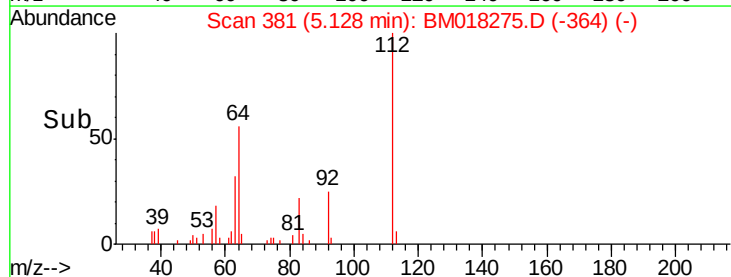
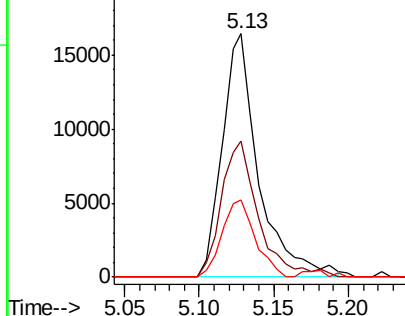


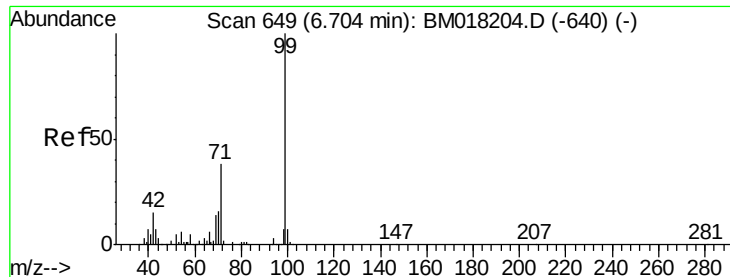
Abundance

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: 2.570 ng

RT: 6.70 min Scan# 648

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

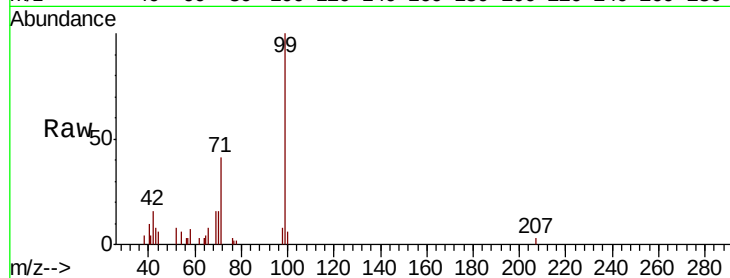
Instrument :

BNA_M

ClientSampleId :

Tot Ion: 99 Resp: 31733

Ion	Ratio	Lower	Upper
99	100		
42	15.5	12.3	18.5
71	41.3	30.2	45.2

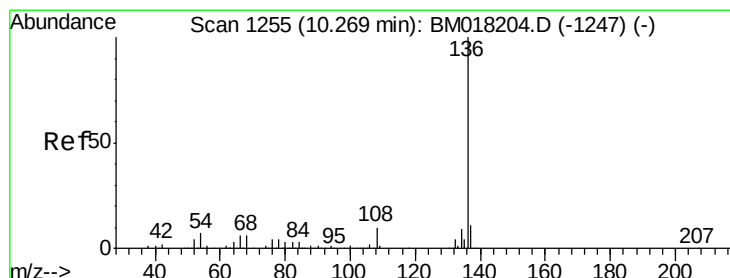
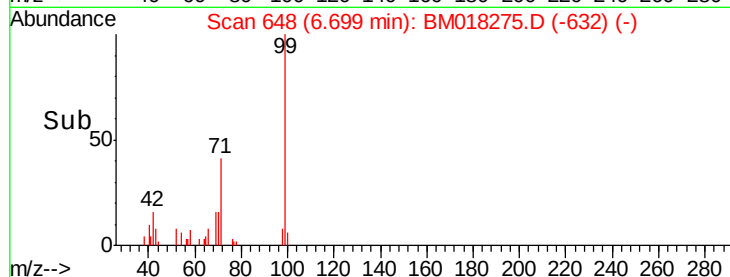
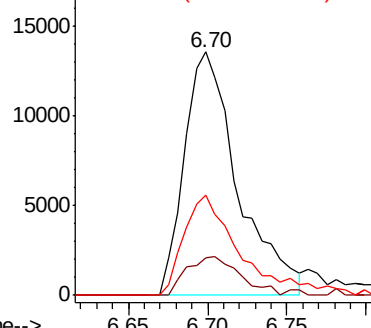


Abundance

Ion 99.00 (98.70 to 99.70): BM018204.D (-640) (-)

Ion 42.00 (41.70 to 42.70): BM018204.D (-640) (-)

Ion 71.00 (70.70 to 71.70): BM018204.D (-640) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.25 min Scan# 1252

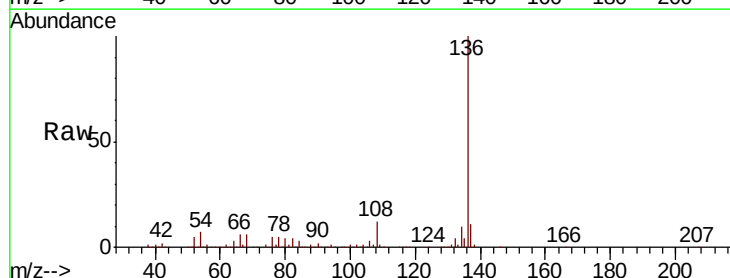
Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Tgt Ion: 136 Resp: 607012

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	6.6	5.2	7.8
68	5.9	5.0	7.6



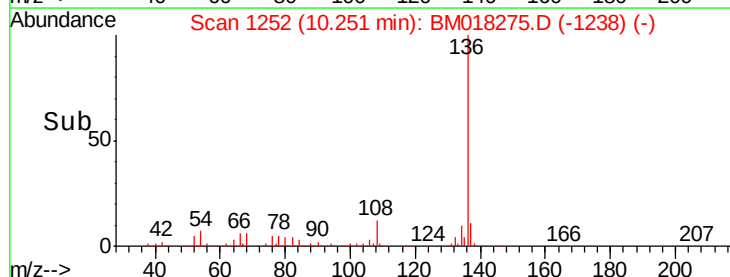
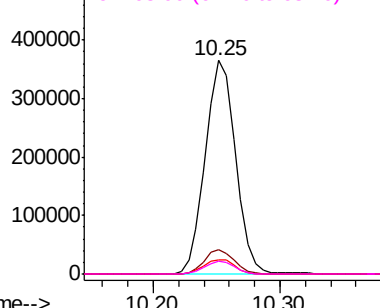
Abundance

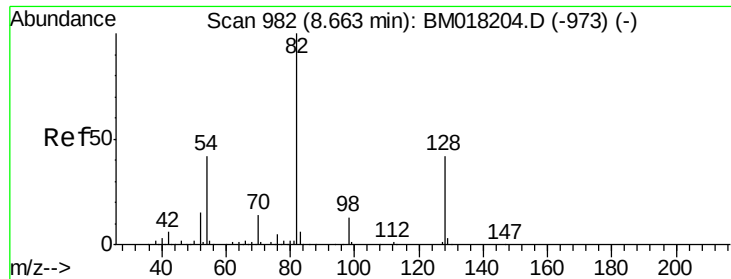
Ion 136.00 (135.70 to 136.70): BM018204.D (-1247) (-)

Ion 137.00 (136.70 to 137.70): BM018204.D (-1247) (-)

Ion 54.00 (53.70 to 54.70): BM018204.D (-1247) (-)

Ion 68.00 (67.70 to 68.70): BM018204.D (-1247) (-)

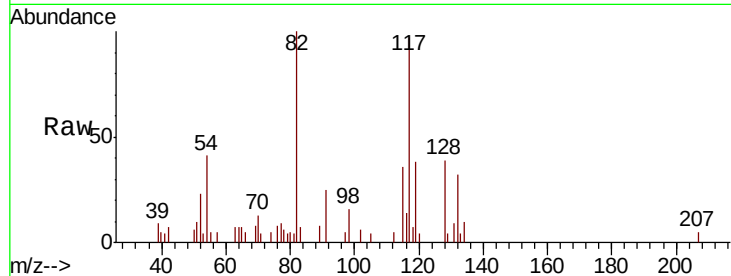




#23
 Nitrobenzene-d5
 Concen: 1.693 ng
 RT: 8.66 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Instrument :
 BNA_M
 ClientSampled :

Tot Ion	82	Resp	20030
Ion Ratio	Lower	Upper	
82	100		
128	38.6	33.4	50.2
54	41.1	33.4	50.2

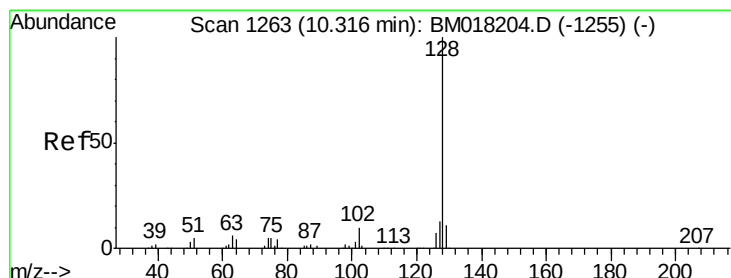
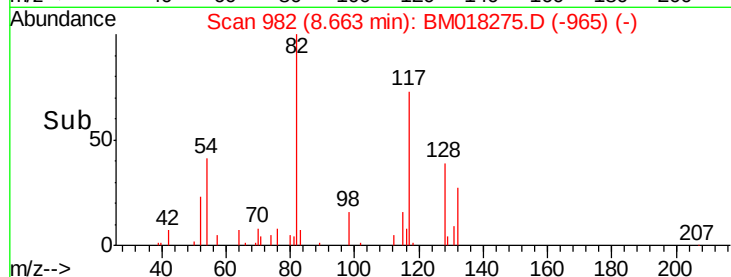
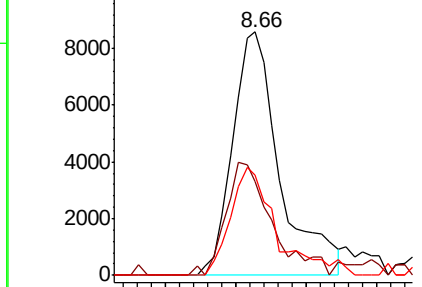


Abundance

Ion 82.00 (81.70 to 82.70): BM018204.D (-973) (-)

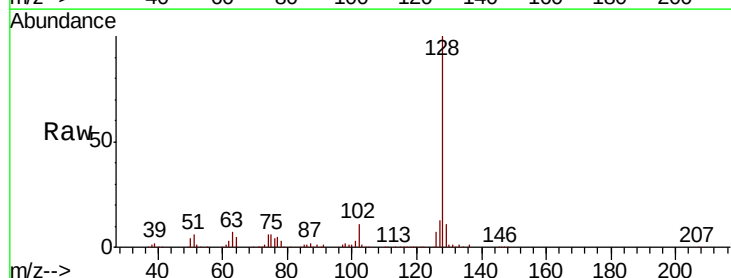
Ion 128.00 (127.70 to 128.70): BM018204.D (-973) (-)

Ion 54.00 (53.70 to 54.70): BM018204.D (-973) (-)



#31
 Naphthalene
 Concen: 18.699 ng
 RT: 10.30 min Scan# 1261
 Delta R.T. -0.01 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Tgt Ion	128	Resp	555021
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.9	13.3
127	12.7	10.4	15.6

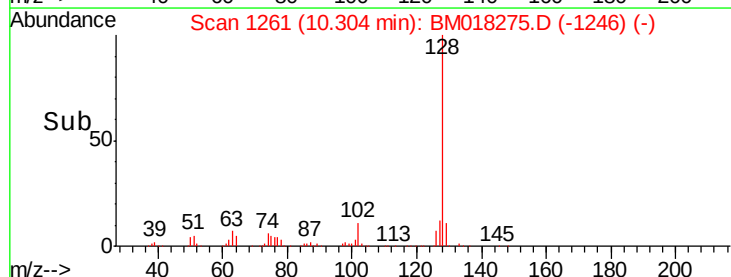
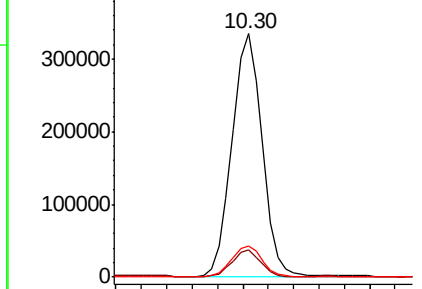


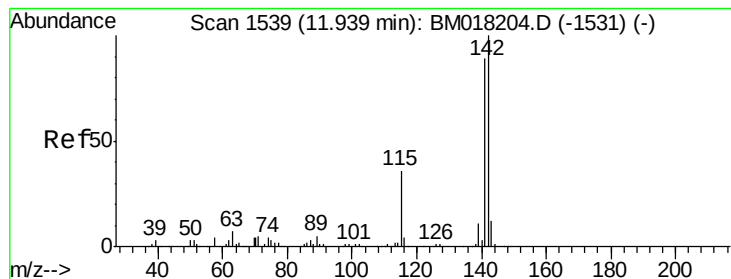
Abundance

Ion 128.00 (127.70 to 128.70): BM018204.D (-1255) (-)

Ion 129.00 (128.70 to 129.70): BM018204.D (-1255) (-)

Ion 127.00 (126.70 to 127.70): BM018204.D (-1255) (-)





#37

2-Methylnaphthalene

Concen: 39.923 ng

RT: 11.93 min Scan# 1537

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampleId :

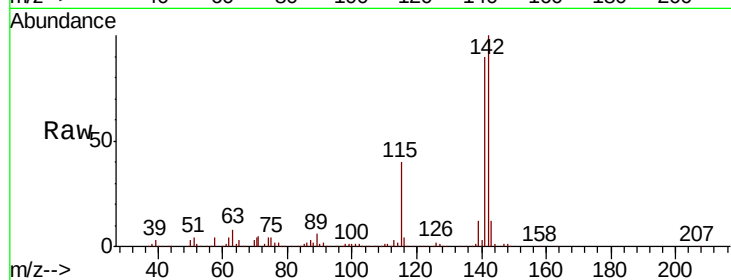
Tot Ion:142 Resp: 835668

Ion Ratio Lower Upper

142 100

141 90.1 71.4 107.2

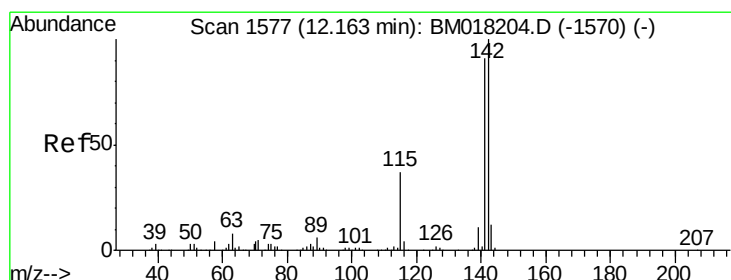
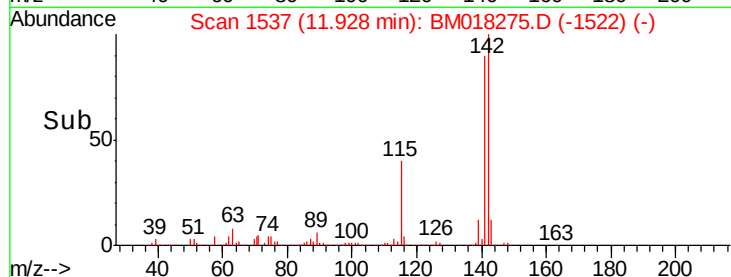
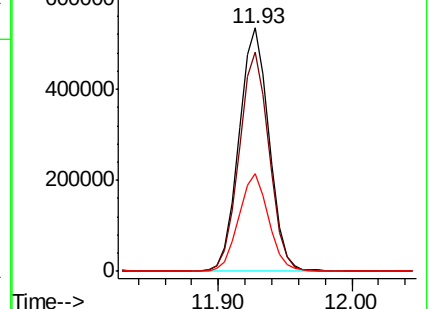
115 40.2 29.0 43.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 38.187 ng

RT: 12.15 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

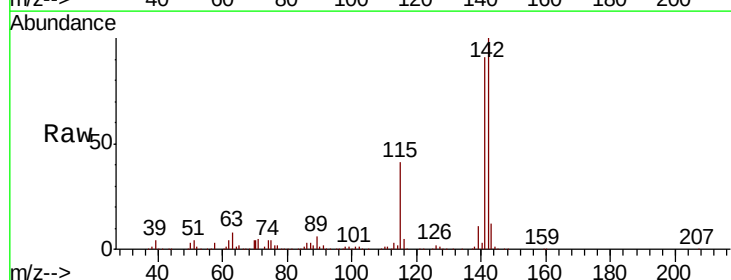
Tgt Ion:142 Resp: 779976

Ion Ratio Lower Upper

142 100

141 90.8 73.0 109.4

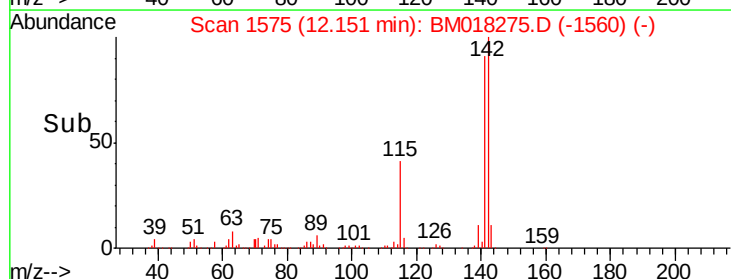
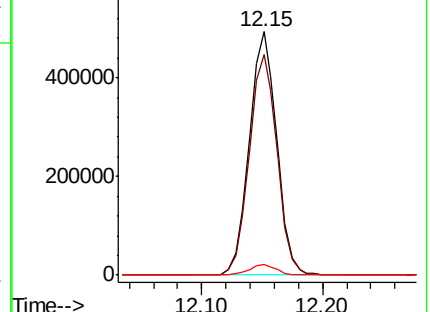
116 4.5 3.0 4.6

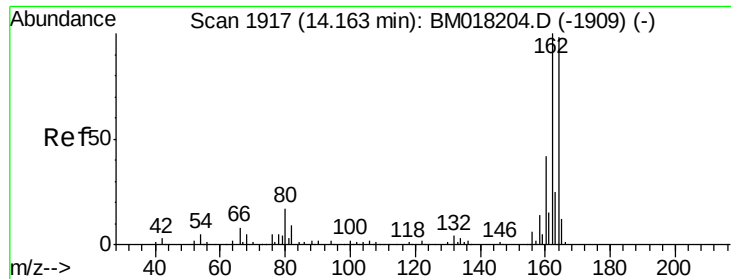


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.15 min Scan# 1914

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampleId :

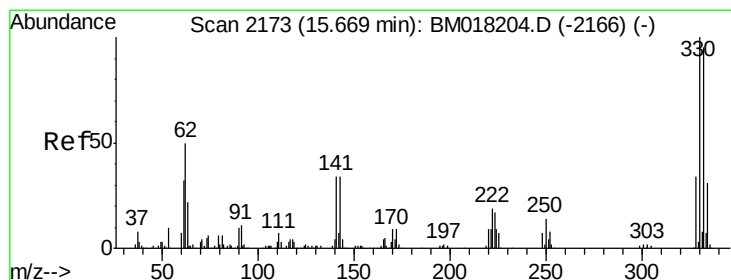
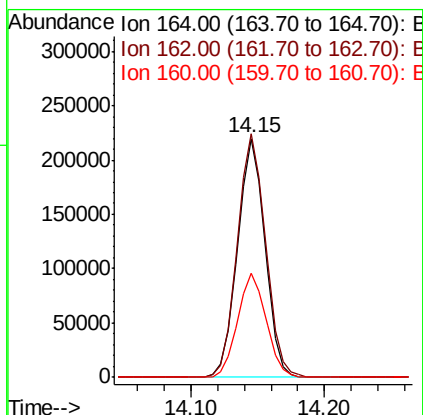
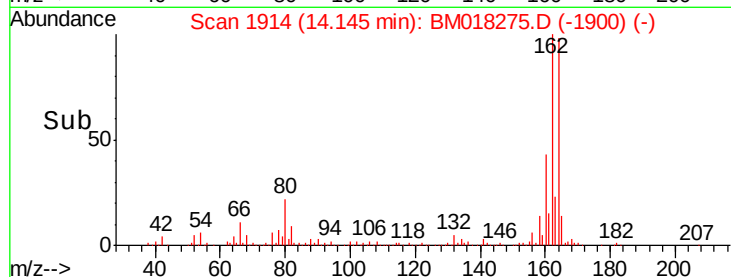
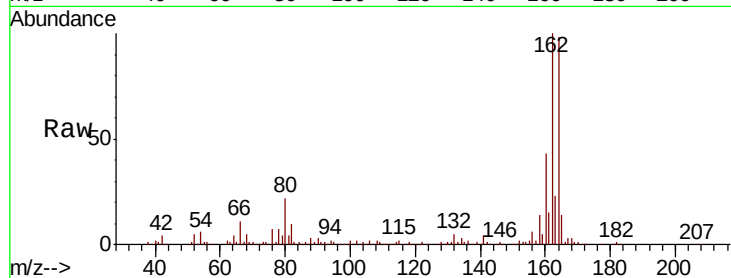
Tot Ion:164 Resp: 313623

Ion Ratio Lower Upper

164 100

162 101.9 81.8 122.6

160 43.7 34.6 51.8



#42

2,4,6-Tribromophenol

Concen: 1.958 ng

RT: 15.66 min Scan# 2172

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

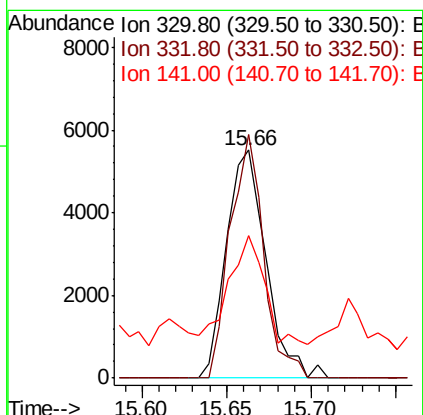
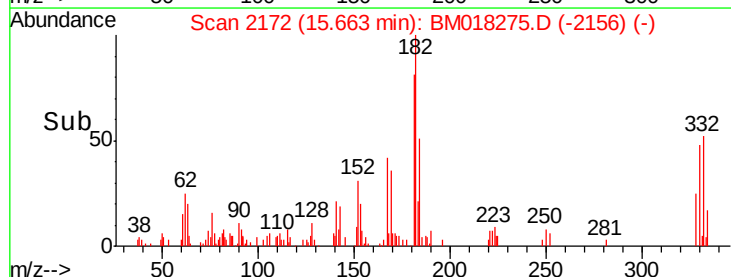
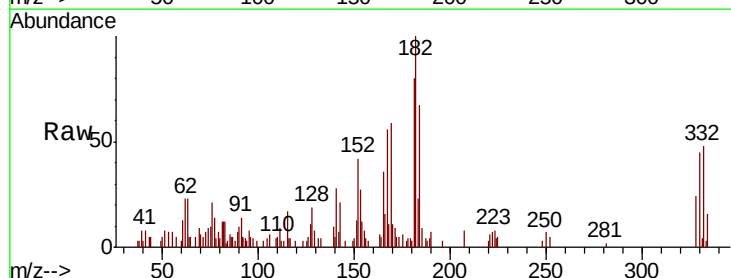
Tgt Ion:330 Resp: 9013

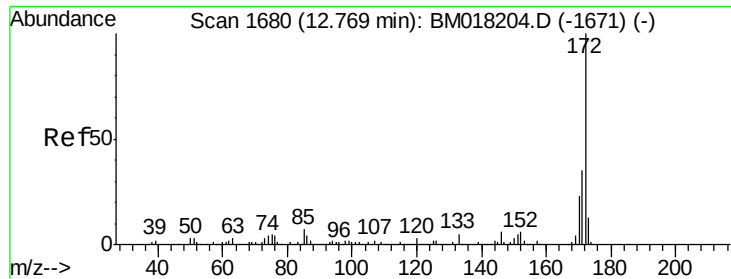
Ion Ratio Lower Upper

330 100

332 90.1 78.6 118.0

141 42.1 27.1 40.7#

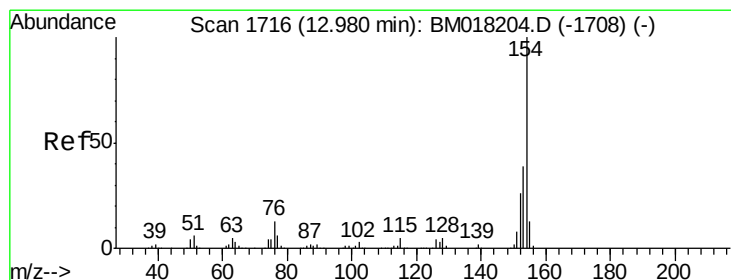
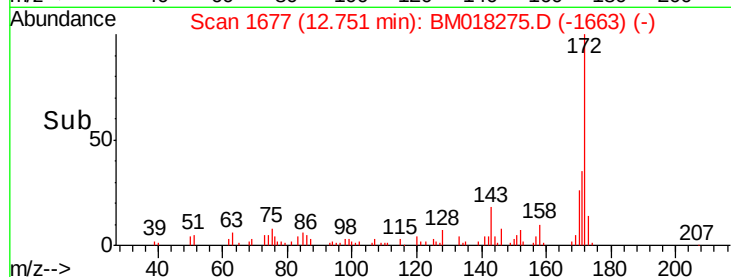
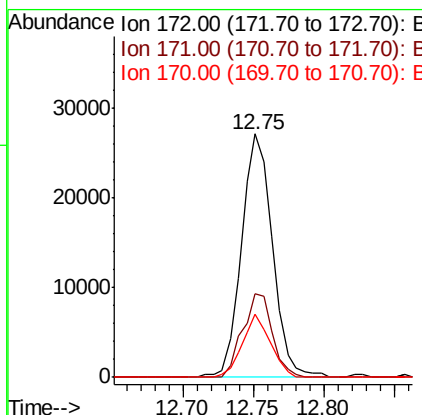
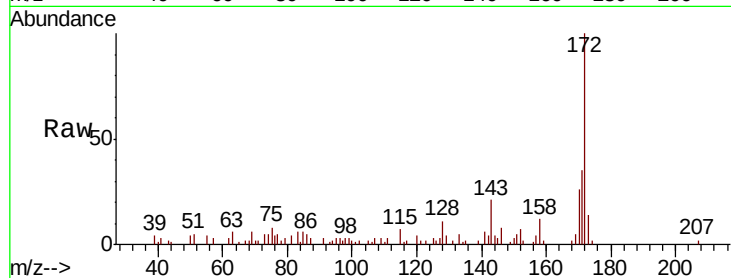




#45
2-Fluorobiphenyl
Concen: 1.723 ng
RT: 12.75 min Scan# 1677
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

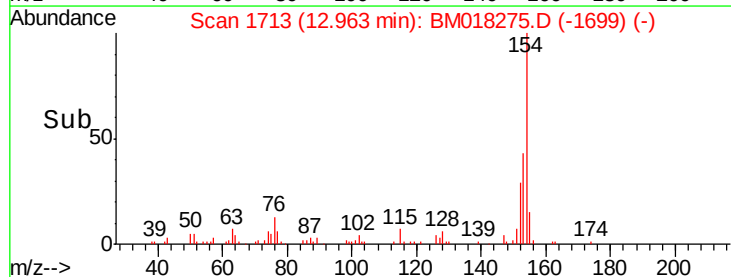
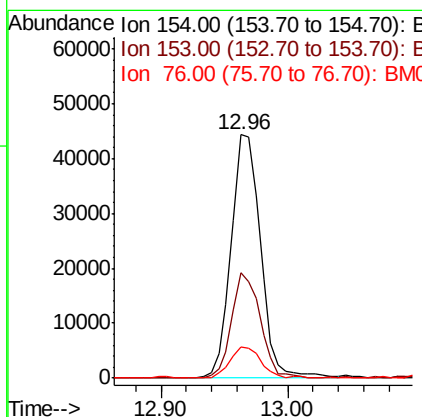
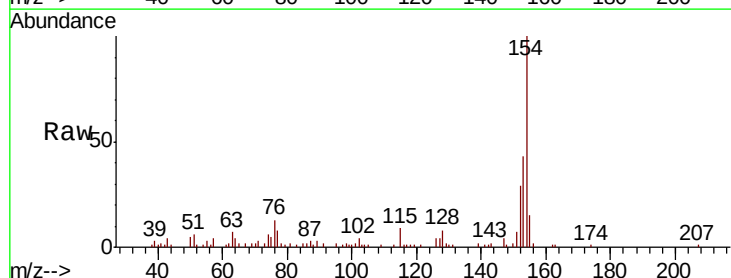
Instrument :
BNA_M
ClientSampleId :

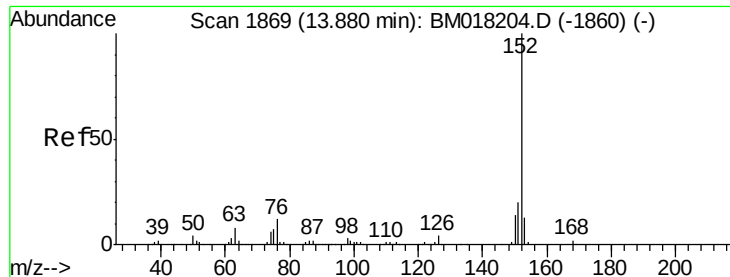
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.3	42.5
170	26.1	18.1	27.1



#46
1,1'-Biphenyl
Concen: 2.529 ng
RT: 12.96 min Scan# 1713
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.2	19.5	59.5
76	12.9	0.0	33.1





#49

Acenaphthylene

Concen: 2.989 ng

RT: 13.86 min Scan# 1866

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampleId :

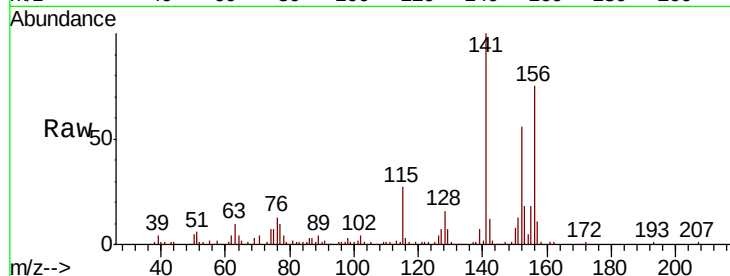
Tot Ion:152 Resp: 93541

Ion Ratio Lower Upper

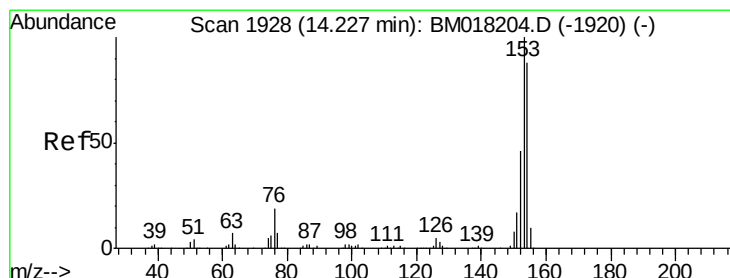
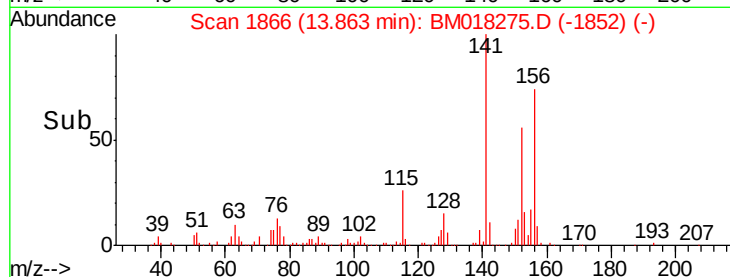
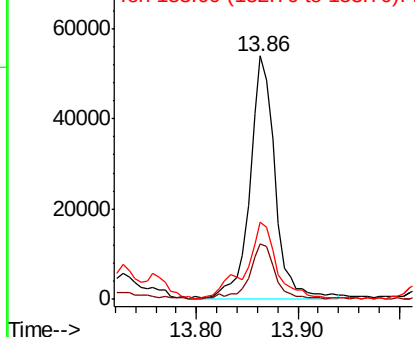
152 100

151 22.5 16.0 24.0

153 31.9 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: 26.129 ng

RT: 14.21 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

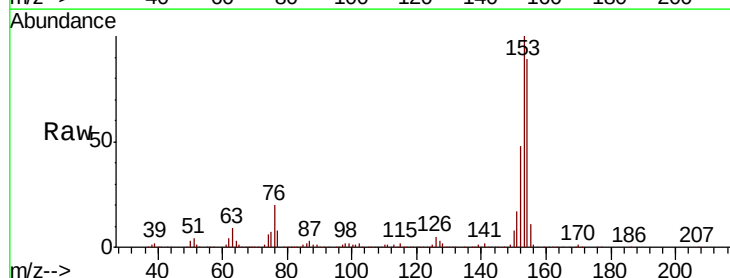
Tgt Ion:154 Resp: 499718

Ion Ratio Lower Upper

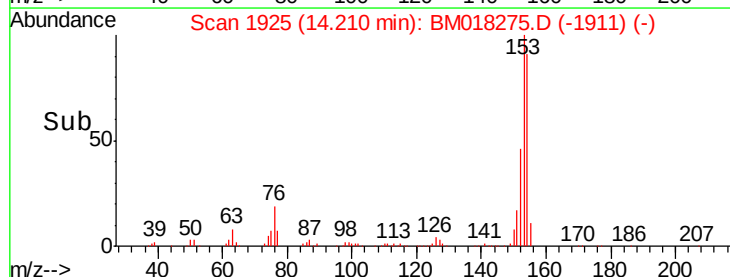
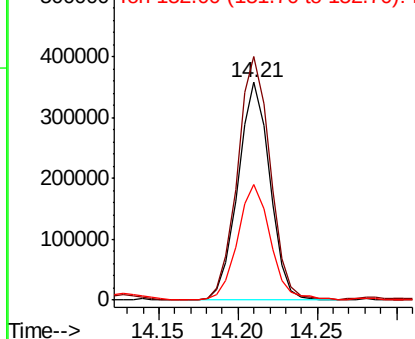
154 100

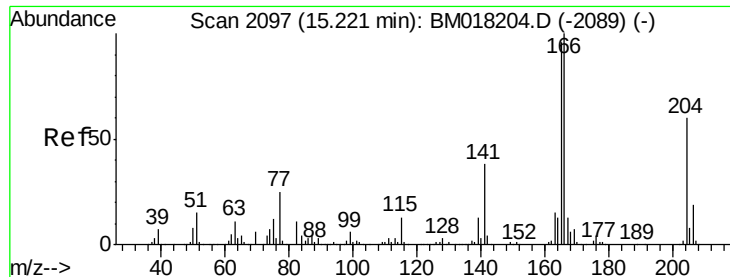
153 111.8 90.4 135.6

152 53.2 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

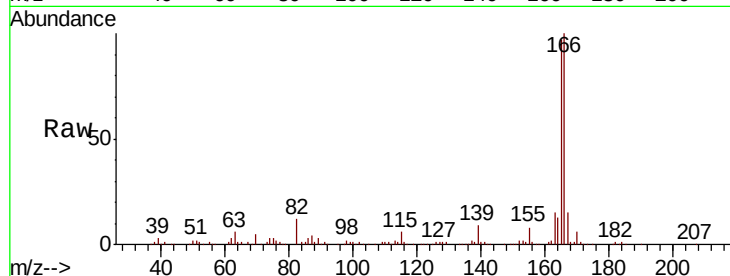




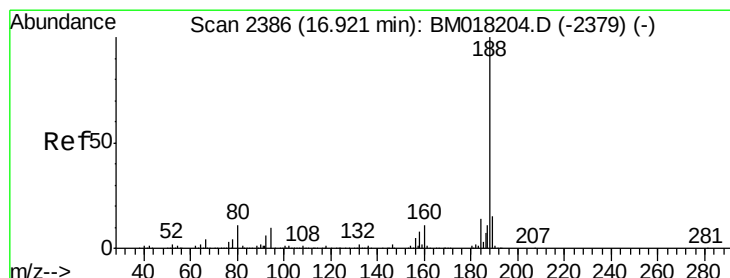
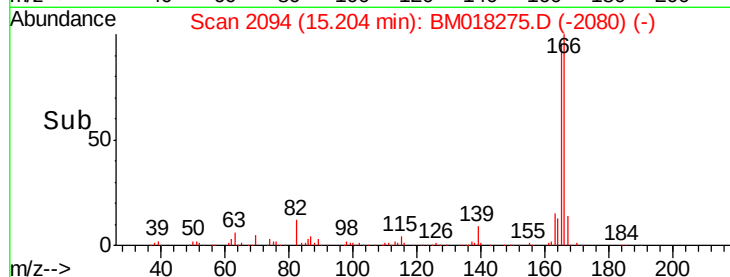
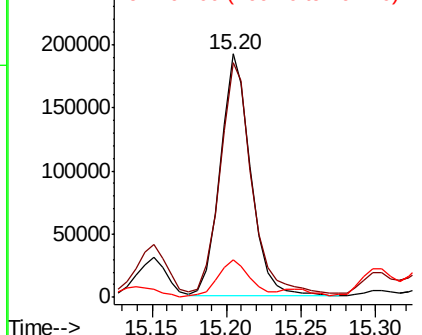
#58
 Fluorene
 Concen: 11.577 ng
 RT: 15.20 min Scan# 2094
 Delta R.T. -0.02 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:166 Resp: 274789
 Ion Ratio Lower Upper
 166 100
 165 96.5 76.9 115.3
 167 15.5 10.5 15.7

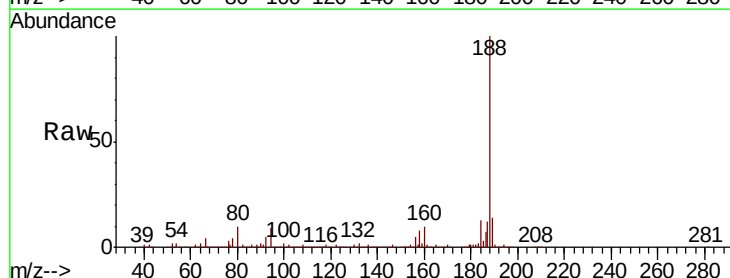


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

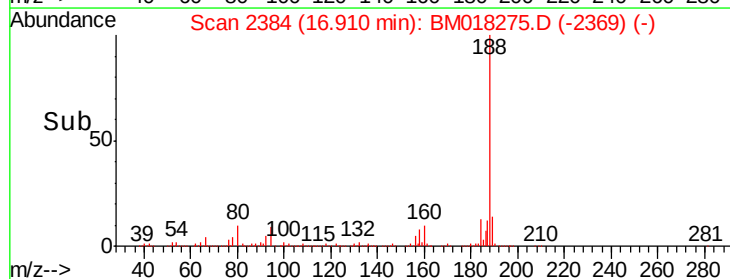
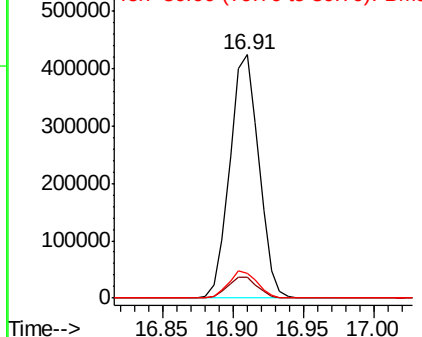


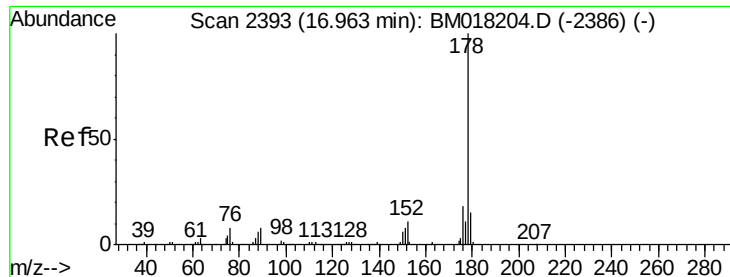
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 16.91 min Scan# 2384
 Delta R.T. -0.01 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Tgt Ion:188 Resp: 610629
 Ion Ratio Lower Upper
 188 100
 94 8.6 8.0 12.0
 80 10.2 9.0 13.6



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BM0
 Ion 80.00 (79.70 to 80.70): BM0





#71

Phenanthrene

Concen: 37.854 ng

RT: 16.95 min Scan# 2391

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampleId :

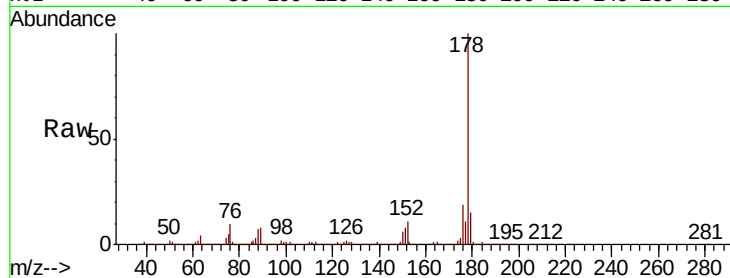
Tot Ion:178 Resp: 1255558

Ion Ratio Lower Upper

178 100

176 19.1 14.7 22.1

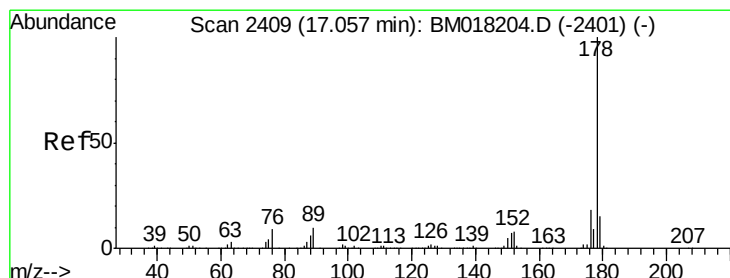
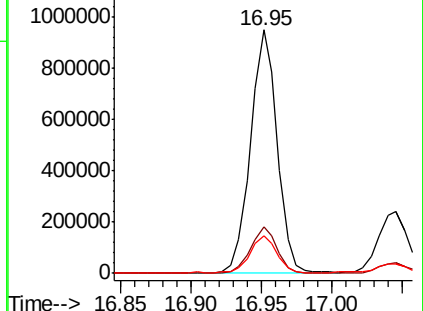
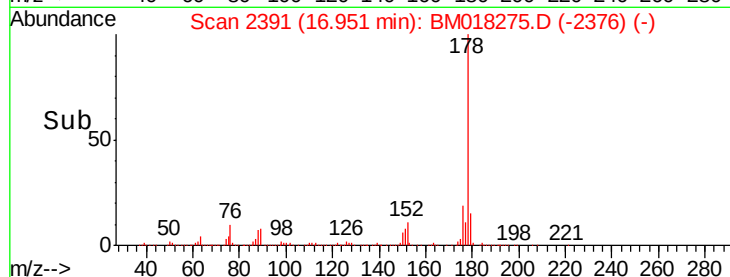
179 15.5 12.0 18.0



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: 10.327 ng

RT: 17.05 min Scan# 2407

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

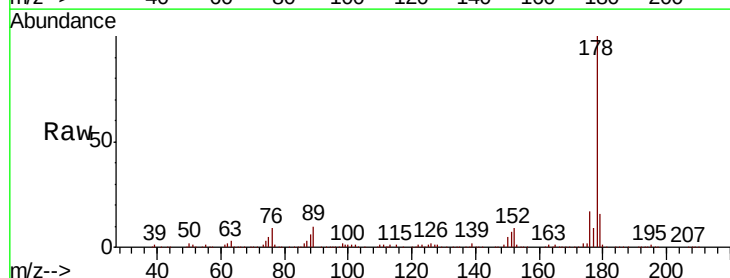
Tgt Ion:178 Resp: 339804

Ion Ratio Lower Upper

178 100

176 17.2 14.3 21.5

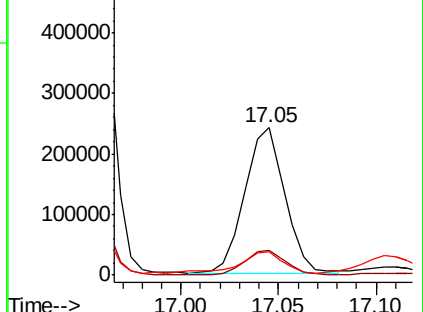
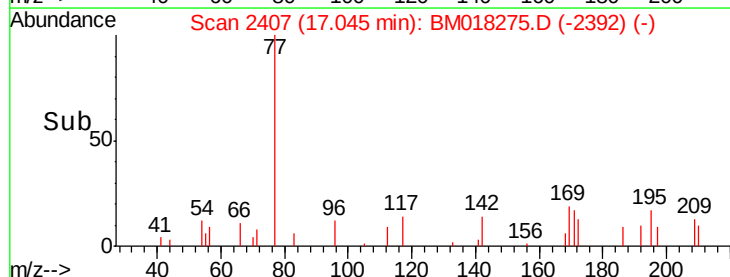
179 16.0 12.0 18.0

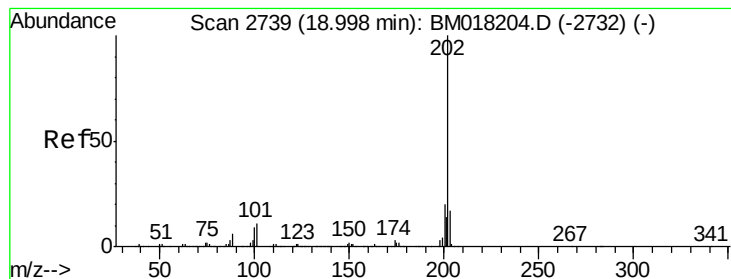


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 9.448 ng

RT: 18.98 min Scan# 2736

Delta R.T. -0.02 min

Lab File: BM018275.D

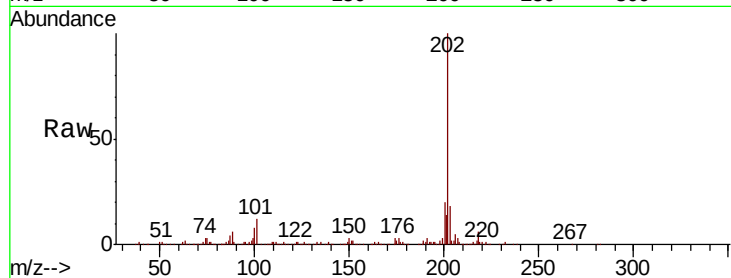
Acq: 18 Dec 2018 17:35

Instrument :

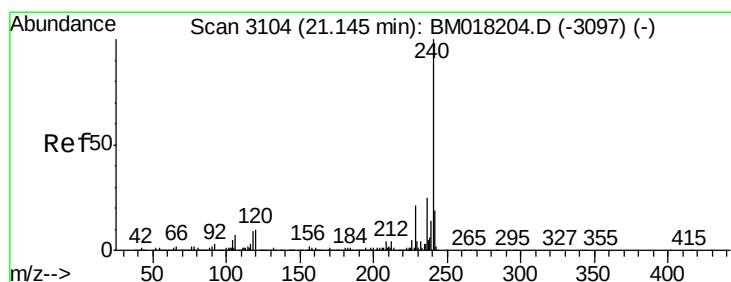
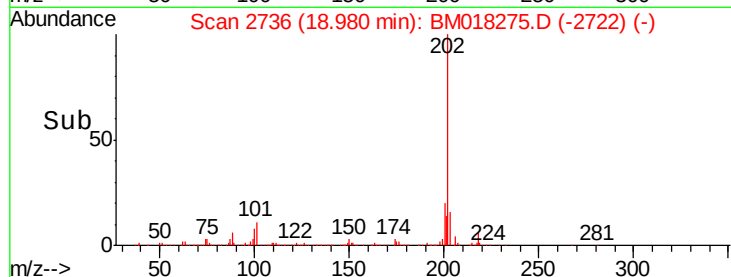
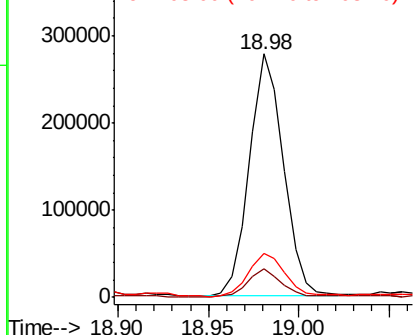
BNA_M

ClientSampleId :

Tot Ion:	202	Resp:	364331
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	30.5
203	17.9	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

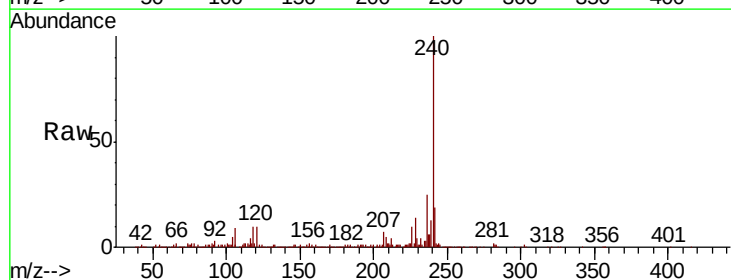
RT: 21.13 min Scan# 3101

Delta R.T. -0.02 min

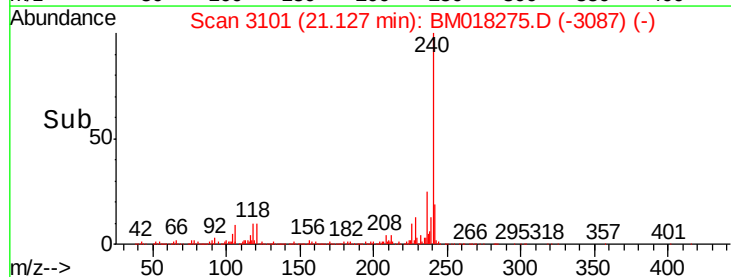
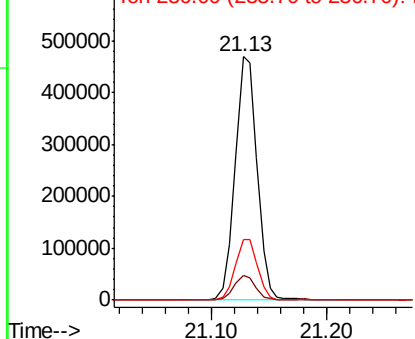
Lab File: BM018275.D

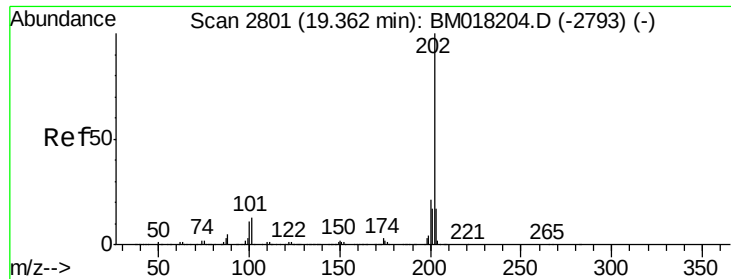
Acq: 18 Dec 2018 17:35

Tgt Ion:	240	Resp:	615878
Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.2	12.2
236	25.1	20.3	30.5



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

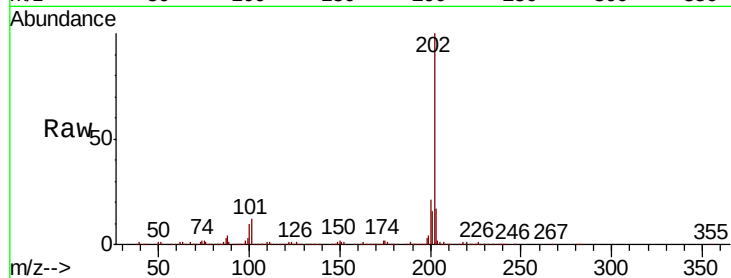




#78
Pvrene
Concen: 16.816 ng
RT: 19.35 min Scan# 2799
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	16.7	14.0	21.0

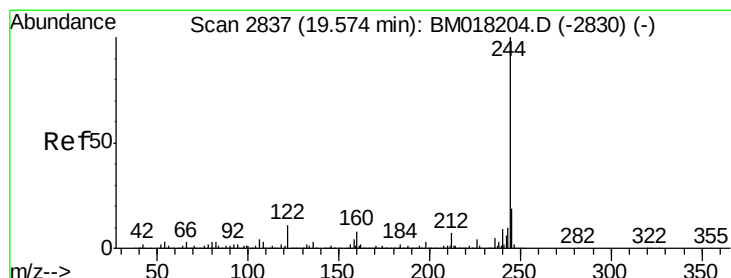
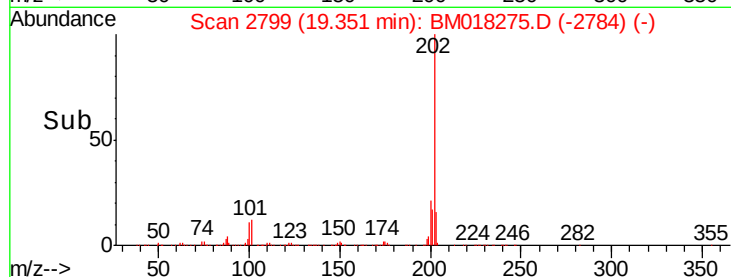
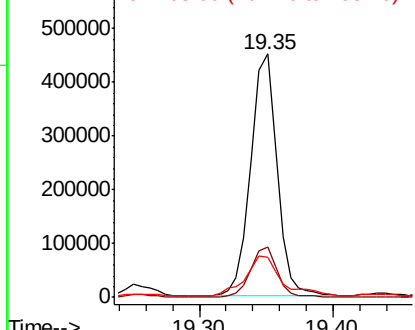


Abundance

Ion 202.00 (201.70 to 202.70): E

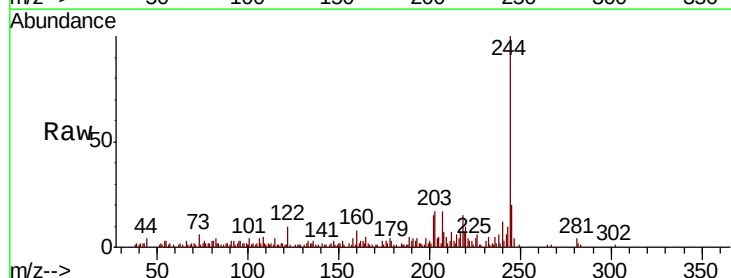
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 1.891 ng
RT: 19.56 min Scan# 2835
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	9.9	9.0	13.6

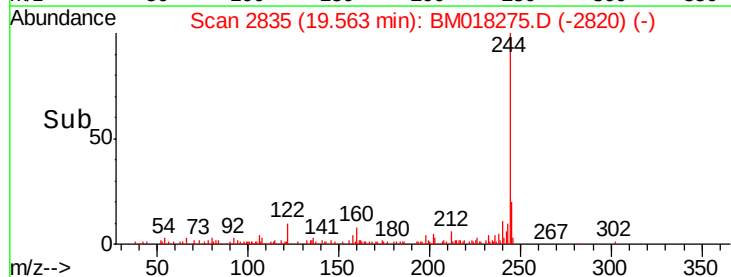
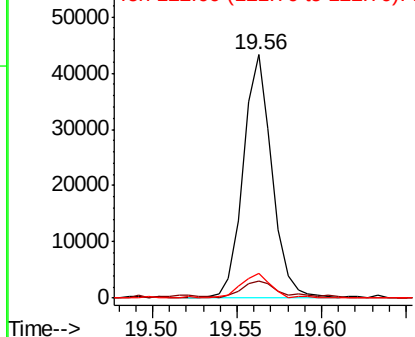


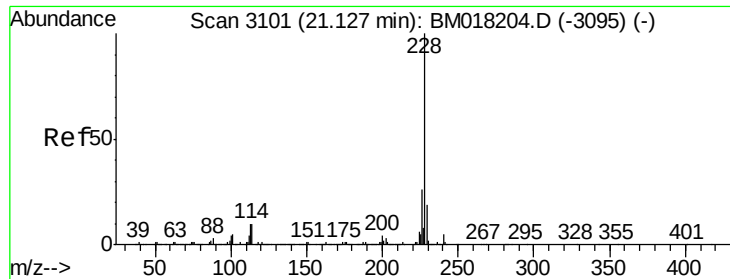
Abundance

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

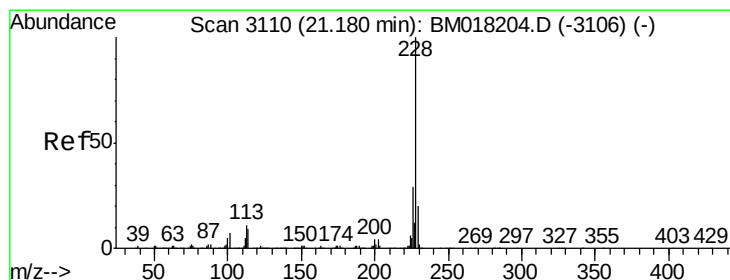
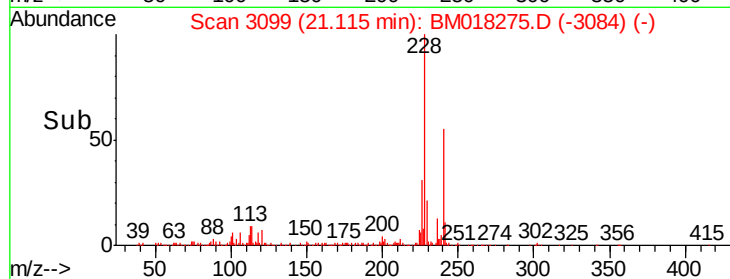
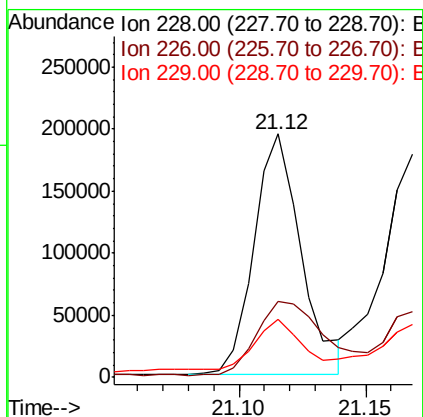
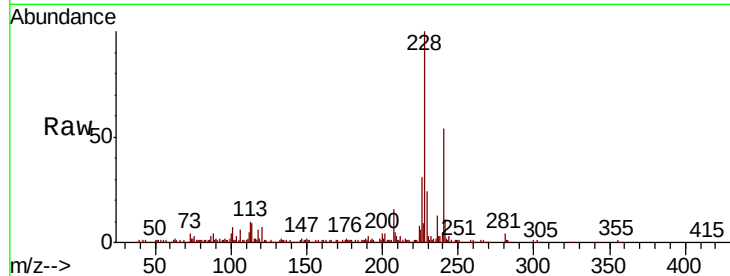




#81
Benzo(a)anthracene
Concen: 6.981 ng
RT: 21.12 min Scan# 3099
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

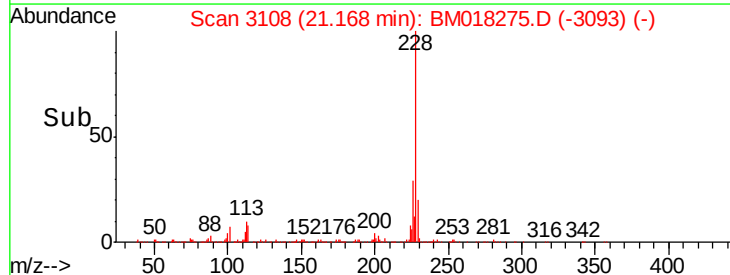
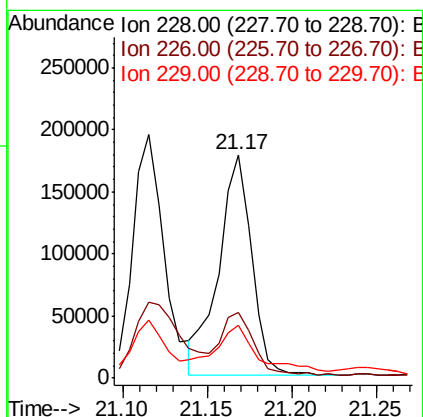
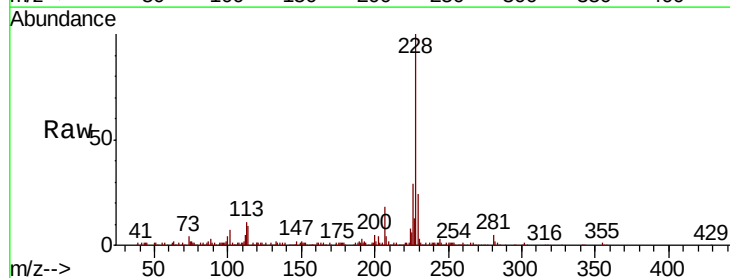
Instrument :
BNA_M
ClientSampled :

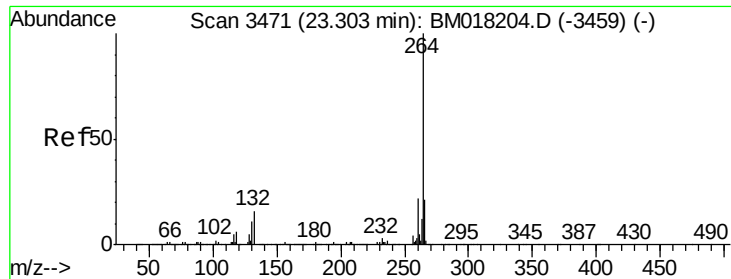
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	21.0	31.4
229	23.7	15.5	23.3#



#83
Chrysene
Concen: 6.980 ng
RT: 21.17 min Scan# 3108
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.1	34.7
229	23.9	15.8	23.6#

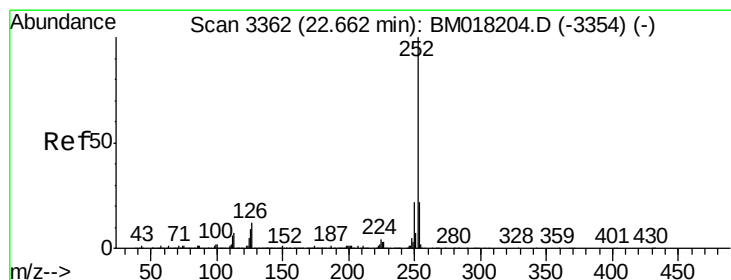
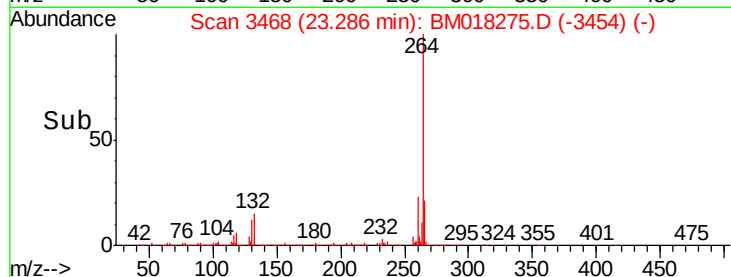
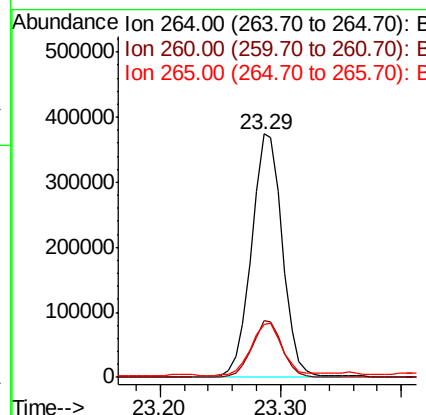
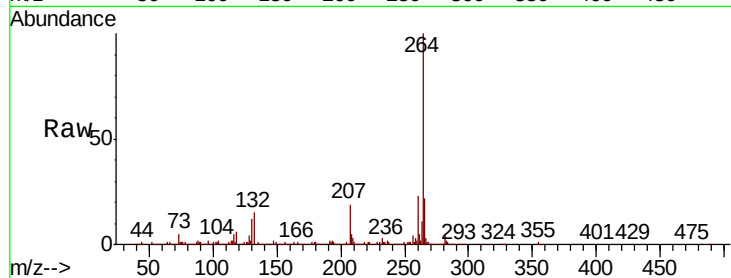




#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.29 min Scan# 3468
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

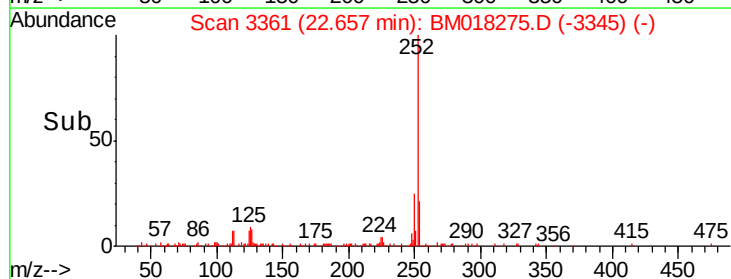
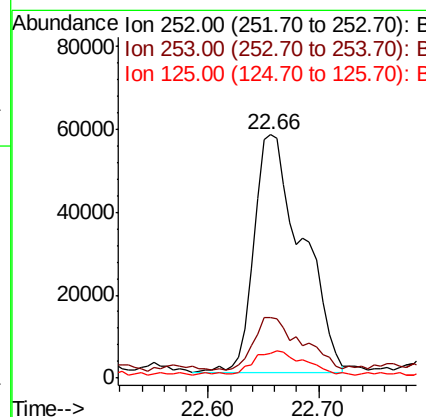
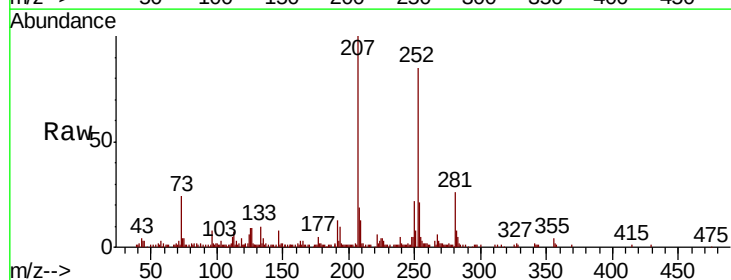
Instrument :
BNA_M
ClientSampled :

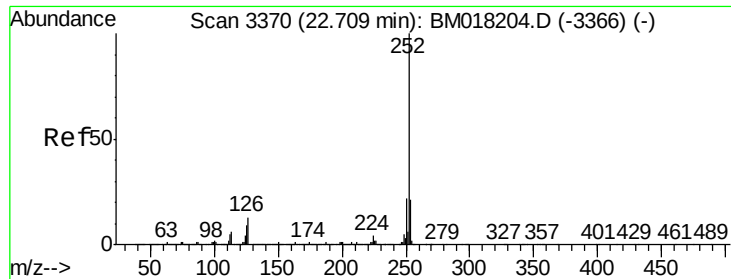
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	17.5	26.3
265	21.7	17.3	25.9



#88
Benzo(b)fluoranthene
Concen: 4.612 ng
RT: 22.66 min Scan# 3361
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.6	26.4
125	10.2	7.4	11.0

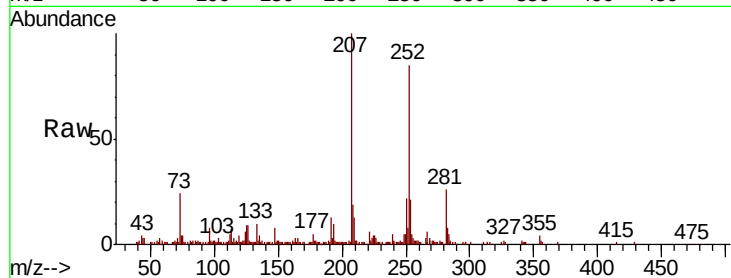




#89
Benzo(k)fluoranthene
Concen: 4.564 ng
RT: 22.66 min Scan# 3361
Delta R.T. -0.05 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	16.9	25.3
125	10.2	7.5	11.3

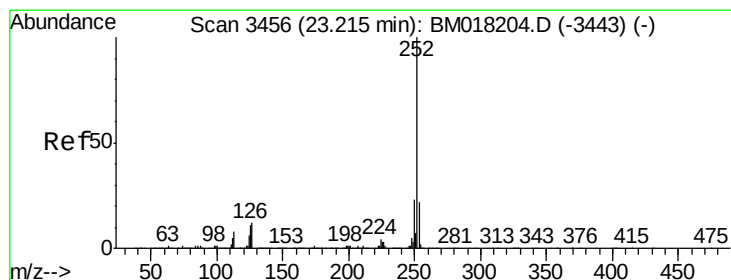
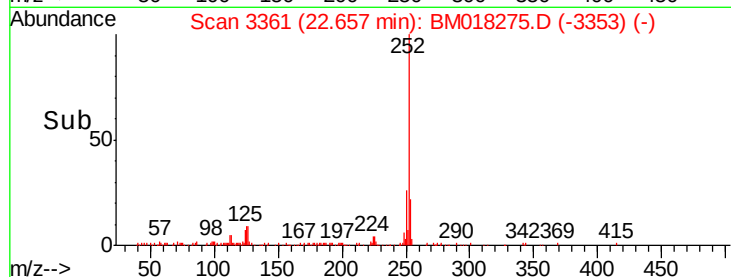
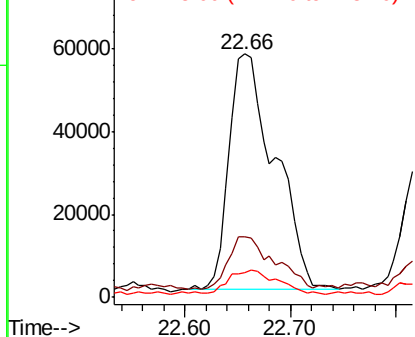


Abundance

Ion 252.00 (251.70 to 252.70): E

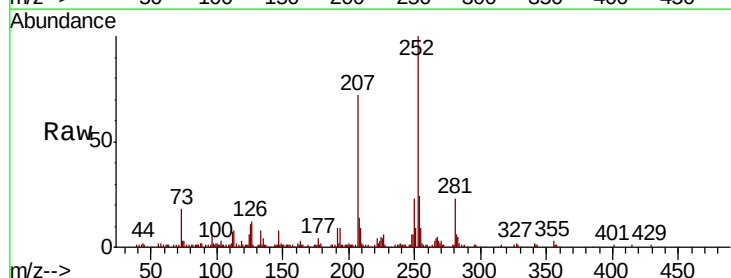
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 4.605 ng
RT: 23.20 min Scan# 3453
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.6	26.4
125	10.9	8.6	12.8



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

