

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020218.D
 Acq On : 09 May 2019 15:39
 Operator : JU/SJ
 Sample : K2729-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 10 04:41:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	110261	20.00	ng	-0.02
21) Naphthalene-d8	10.57	136	382386	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	232121	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	537215	20.00	ng	-0.01
76) Chrysene-d12	21.36	240	580484	20.00	ng	-0.01
87) Perylene-d12	23.64	264	697863	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	1084164	160.72	ng	0.00
7) Phenol-d6	6.95	99	1460150	158.45	ng	0.00
23) Nitrobenzene-d5	8.95	82	1023068	105.63	ng	-0.01
42) 2,4,6-Tribromophenol	15.92	330	641674	178.10	ng	0.00
45) 2-Fluorobiphenyl	13.04	172	1796043	95.20	ng	-0.02
79) Terphenyl-d14	19.80	244	2956757	88.84	ng	-0.01

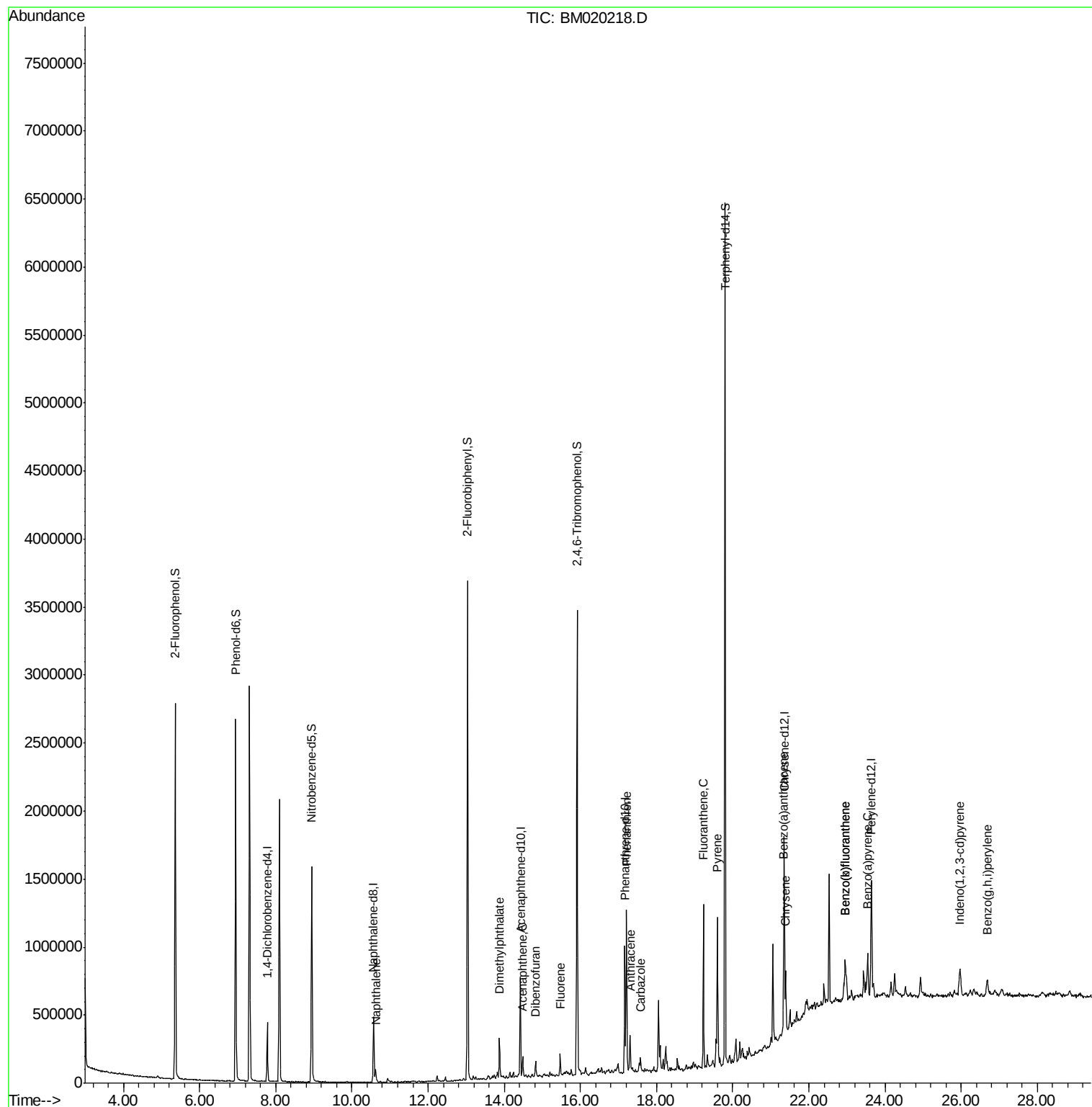
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.62	128	69776	3.516	ng	96
50) Dimethylphthalate	13.87	163	161400	8.181	ng	99
52) Acenaphthene	14.49	154	48995	3.500	ng	94
55) Dibenzofuran	14.82	168	65124	2.758	ng	95
58) Fluorene	15.47	166	68185	3.516	ng	96
71) Phenanthrene	17.21	178	702818	23.700	ng	99
72) Anthracene	17.30	178	172256	5.810	ng	100
73) Carbazole	17.58	167	64471	2.410	ng	95
75) Fluoranthene	19.23	202	721061	19.218	ng	99
78) Pyrene	19.59	202	651357	16.713	ng	99
81) Benzo(a)anthracene	21.34	228	279300	6.861	ng	98
83) Chrysene	21.39	228	233905	5.924	ng	96
86) Indeno(1,2,3-cd)pyrene	25.96	276	156337	3.329	ng	# 100
88) Benzo(b)fluoranthene	22.95	252	399003	8.658	ng	97
89) Benzo(k)fluoranthene	22.95	252	395866	9.417	ng	# 98
90) Benzo(a)pyrene	23.54	252	248155	5.928	ng	97
92) Benzo(a,h,i)perylene	26.69	276	157115	3.802	ng	98

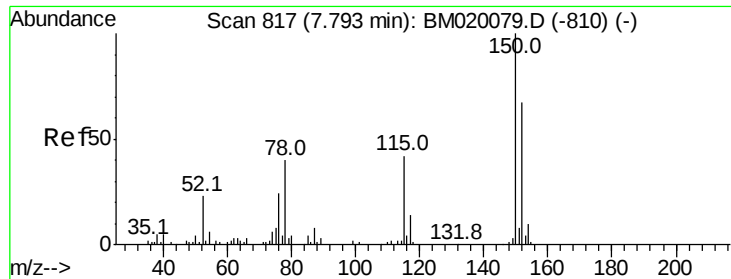
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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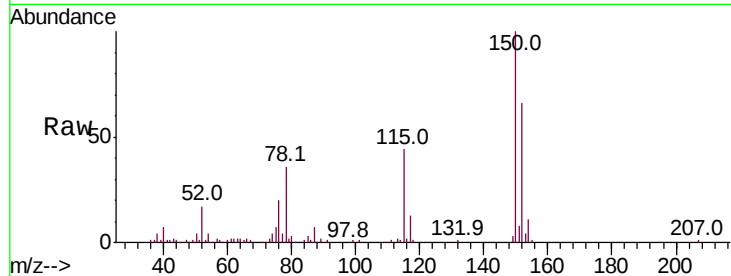


#1

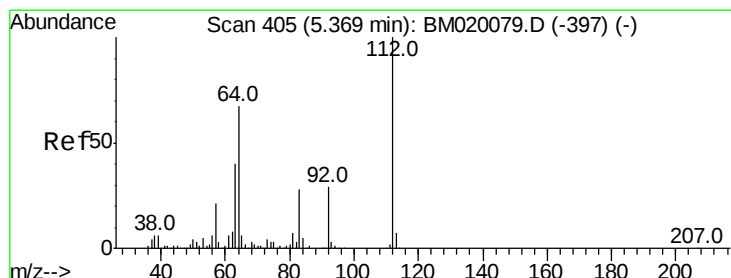
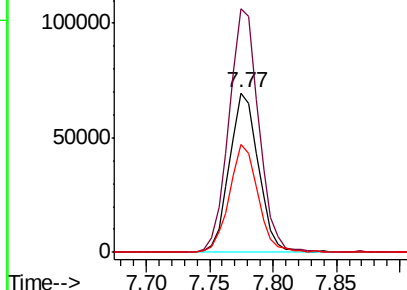
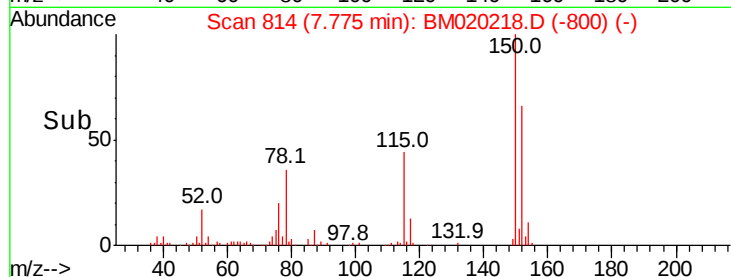
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.77 min Scan# 814
Delta R.T. -0.02 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 110261
Ion Ratio Lower Upper
152 100
150 152.6 119.8 179.8
115 67.4 50.8 76.2



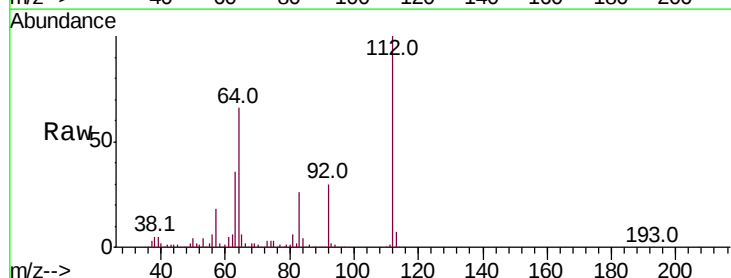
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



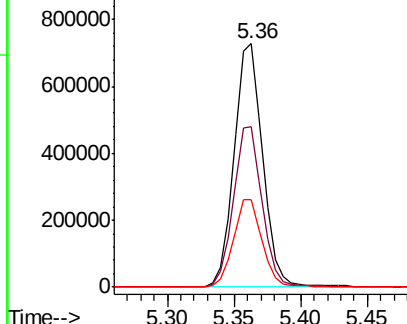
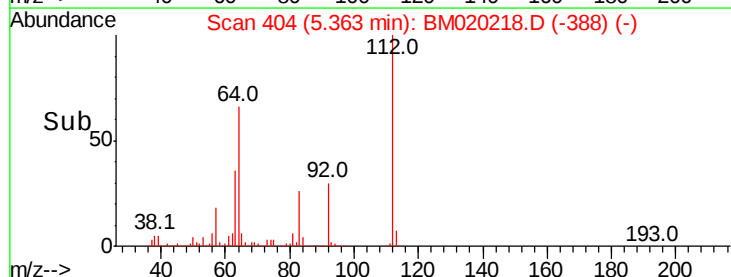
#5

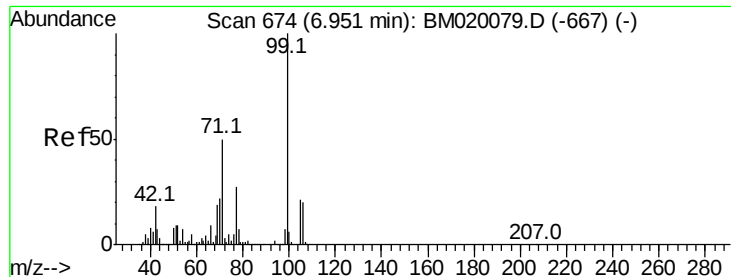
2-Fluorophenol
Concen: 160.725 ng
RT: 5.36 min Scan# 404
Delta R.T. -0.01 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Tgt Ion:112 Resp: 1084164
Ion Ratio Lower Upper
112 100
64 65.8 53.8 80.6
63 35.8 32.3 48.5



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: 158.449 ng

RT: 6.95 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

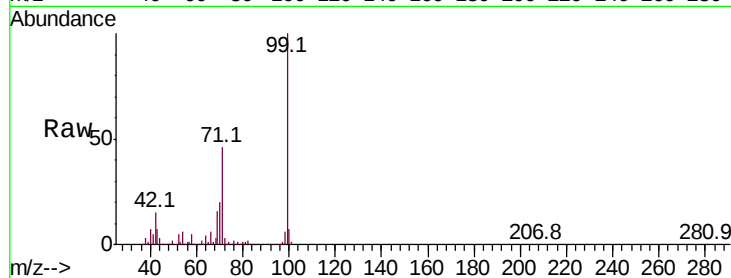
Instrument :

BNA_M

ClientSampleId :

Tot Ion: 99 Resp: 1460150

Ion	Ratio	Lower	Upper
99	100		
42	15.1	14.2	21.2
71	45.8	40.3	60.5

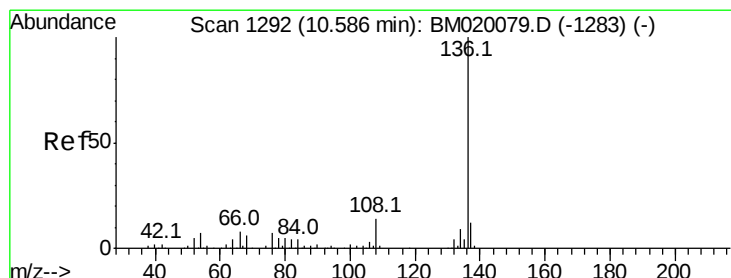
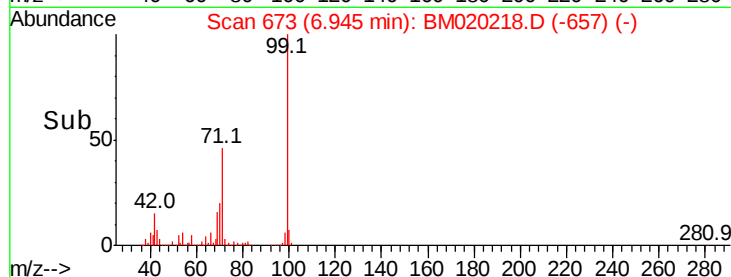
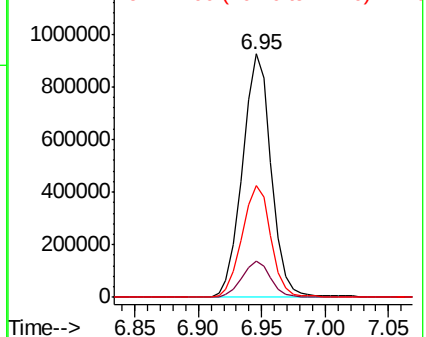


Abundance

Ion 99.00 (98.70 to 99.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 71.00 (70.70 to 71.70): BM0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.57 min Scan# 1289

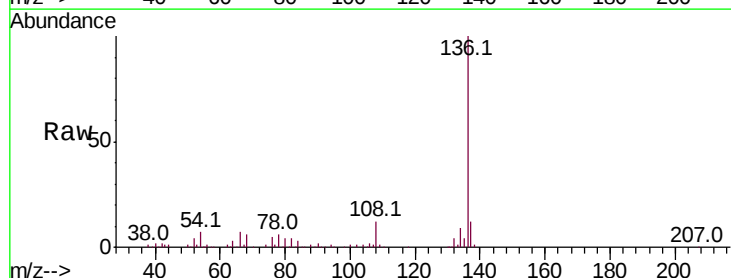
Delta R.T. -0.02 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Tgt Ion: 136 Resp: 382386

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.6	14.4
54	6.7	5.5	8.3
68	6.0	4.6	6.8



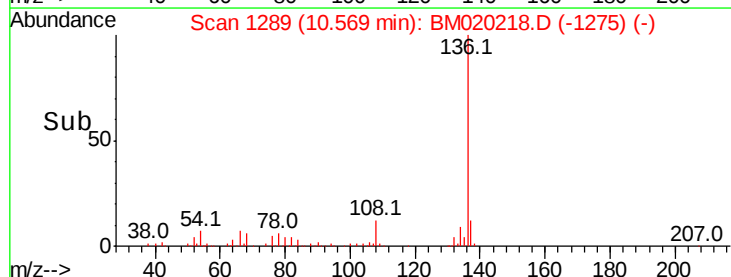
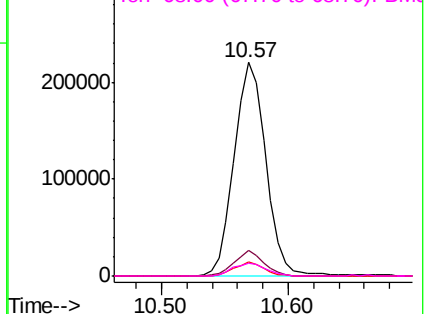
Abundance

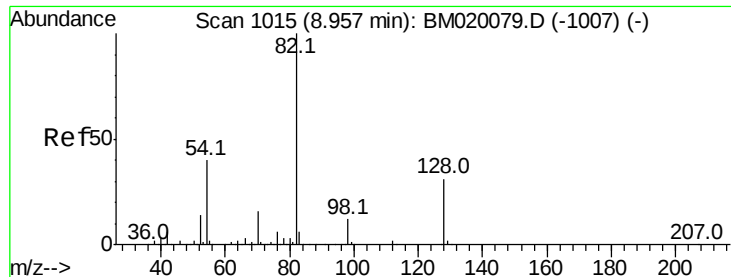
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM0

Ion 68.00 (67.70 to 68.70): BM0

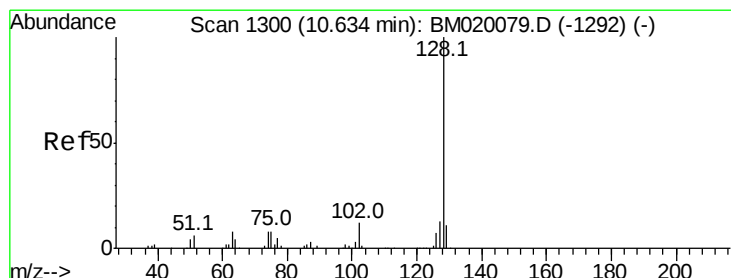
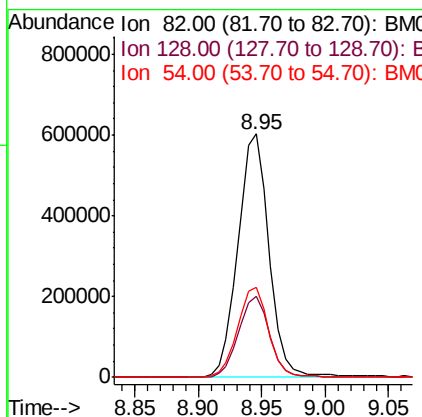
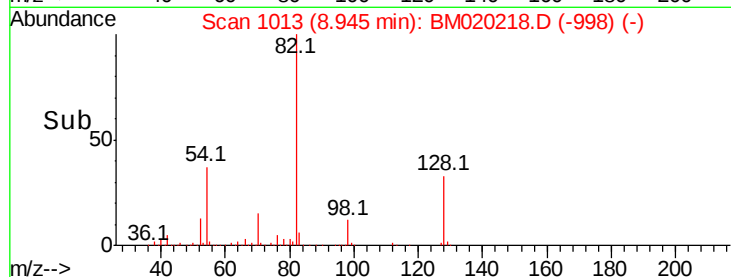
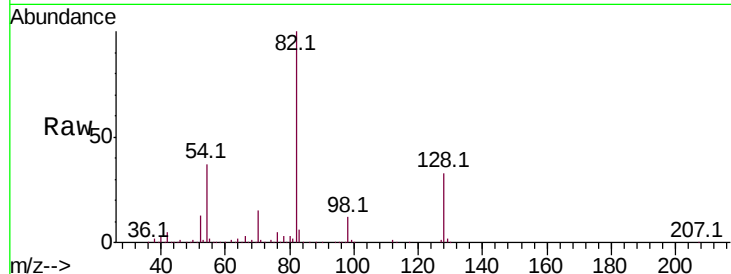




#23
Nitrobenzene-d5
Concen: 105.628 ng
RT: 8.95 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

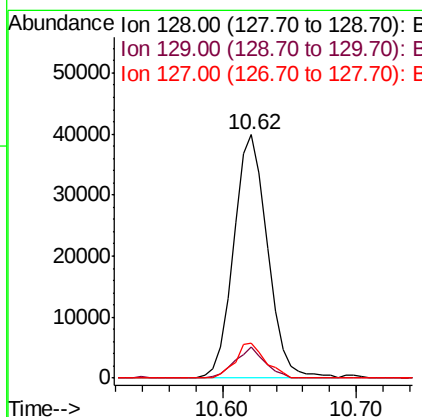
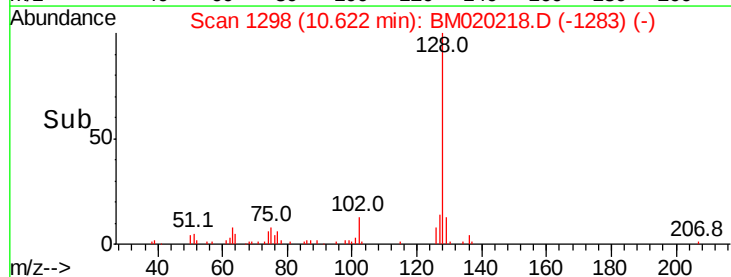
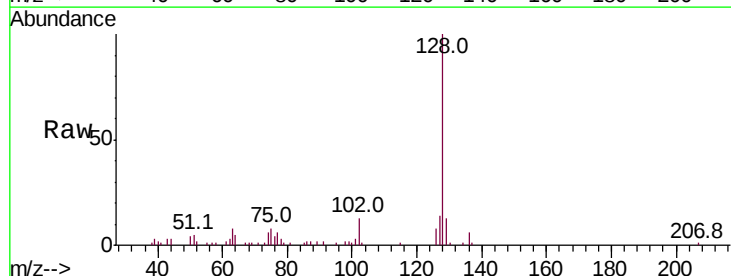
Instrument :
BNA_M
ClientSampleId :

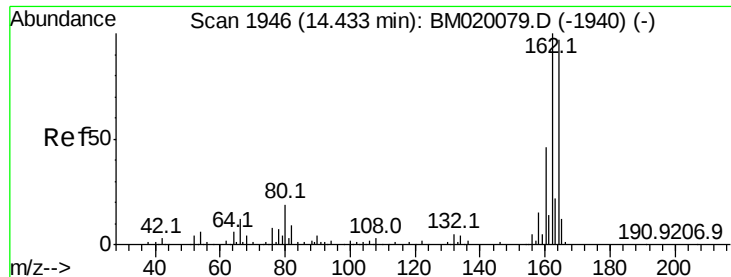
Tot Ion: 82 Resp: 1023068
Ion Ratio Lower Upper
82 100
128 33.5 25.2 37.8
54 36.8 31.9 47.9



#31
Naphthalene
Concen: 3.516 ng
RT: 10.62 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Tgt Ion: 128 Resp: 69776
Ion Ratio Lower Upper
128 100
129 12.6 9.0 13.4
127 14.4 10.4 15.6

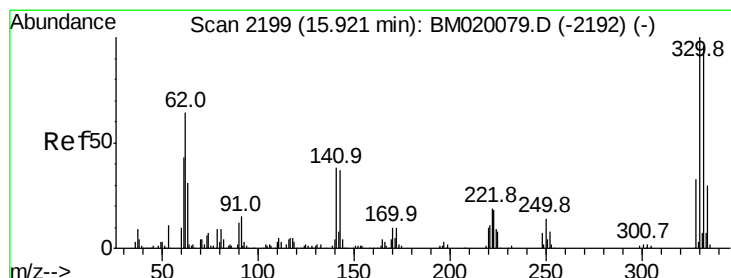
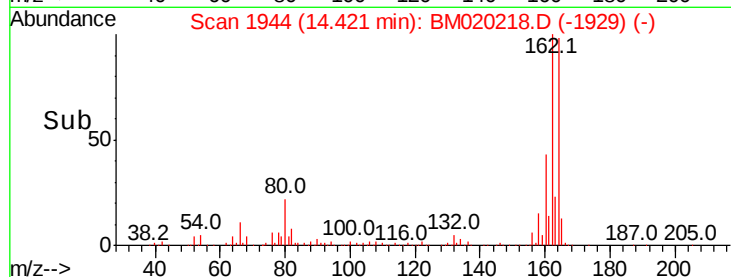
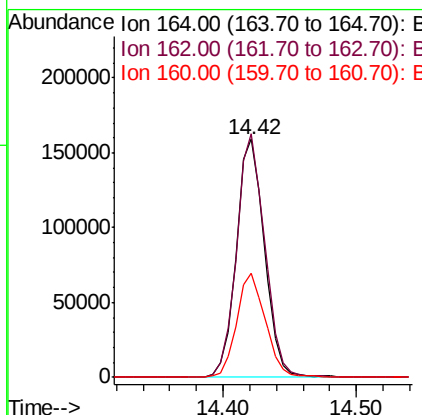
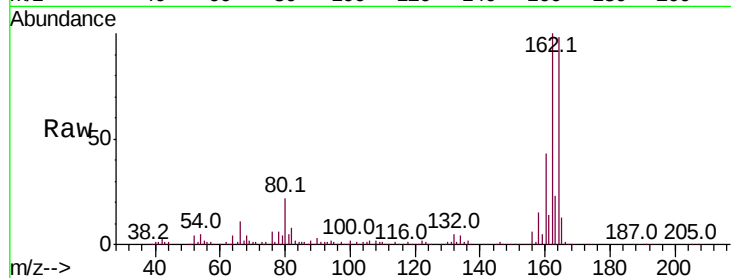




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.42 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: BM020218.D
 Acq: 09 May 2019 15:39

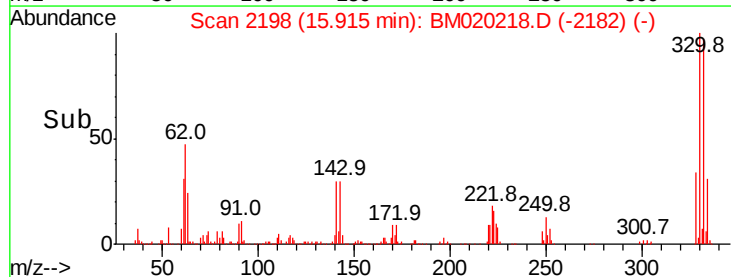
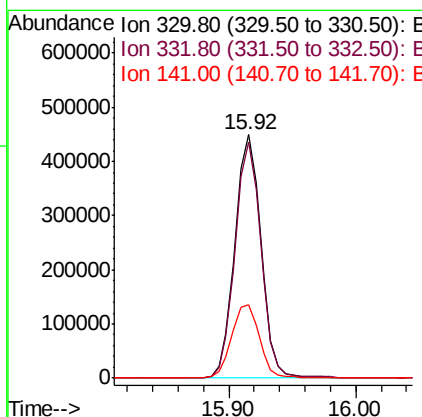
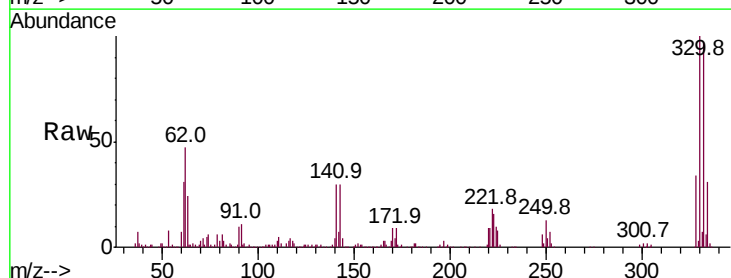
Instrument :
 BNA_M
 ClientSampled :

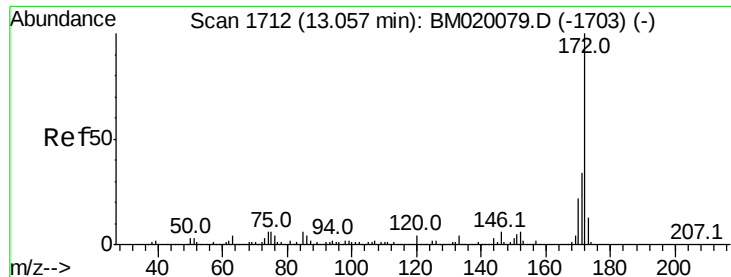
Tot Ion:164 Resp: 232121
 Ion Ratio Lower Upper
 164 100
 162 102.1 82.2 123.2
 160 43.6 37.6 56.4



#42
 2,4,6-Tribromophenol
 Concen: 178.097 ng
 RT: 15.92 min Scan# 2198
 Delta R.T. -0.01 min
 Lab File: BM020218.D
 Acq: 09 May 2019 15:39

Tgt Ion:330 Resp: 641674
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.8 115.2
 141 32.2 29.2 43.8



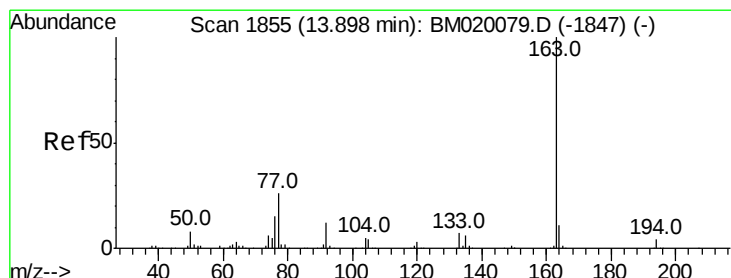
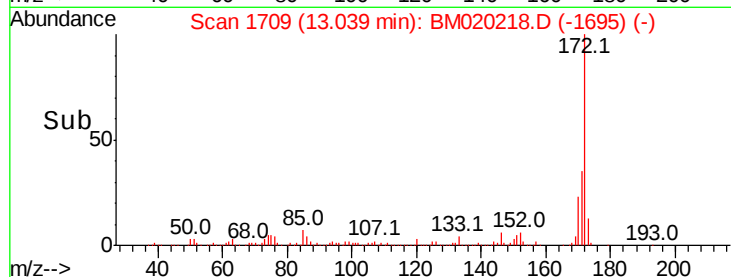
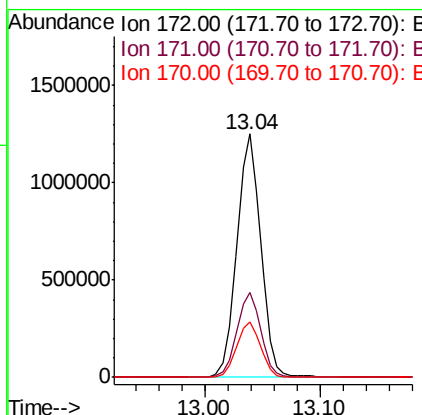
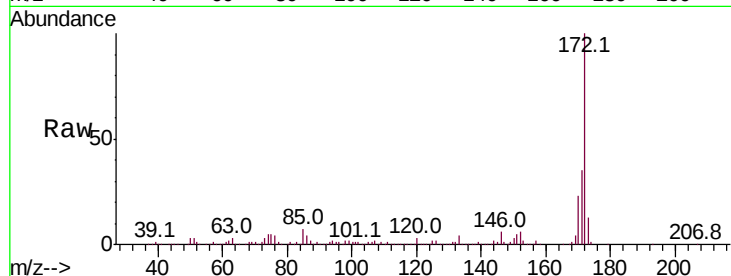


#45
2-Fluorobiphenyl
Concen: 95.200 ng
RT: 13.04 min Scan# 1709
Delta R.T. -0.02 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Instrument :
BNA_M
ClientSampleId :

Tot Ion:172 Resp: 1796043

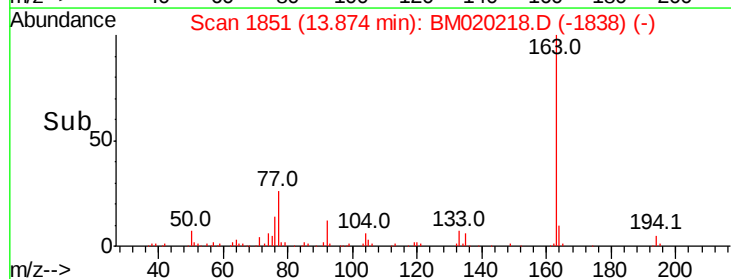
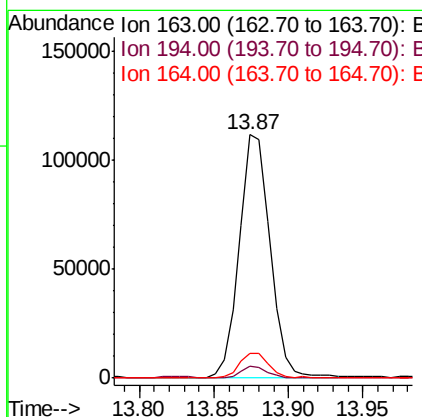
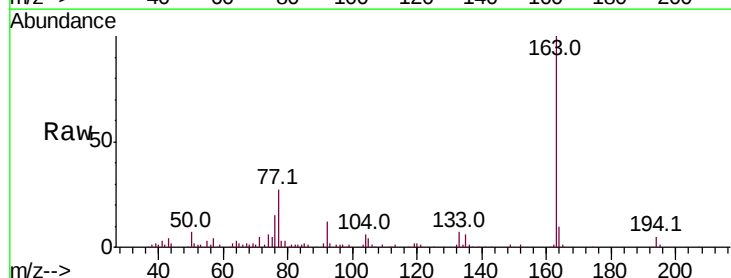
Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.3	40.9
170	22.6	17.9	26.9

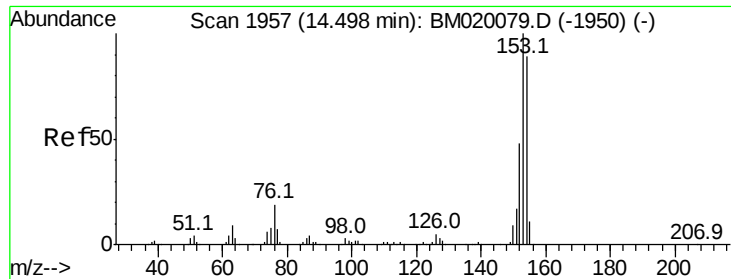


#50
Dimethylphthalate
Concen: 8.181 ng
RT: 13.87 min Scan# 1851
Delta R.T. -0.02 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Tgt Ion:163 Resp: 161400

Ion	Ratio	Lower	Upper
163	100		
194	5.1	3.6	5.4
164	10.2	8.4	12.6





#52

Acenaphthene

Concen: 3.500 ng

RT: 14.49 min Scan# 1955

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampled :

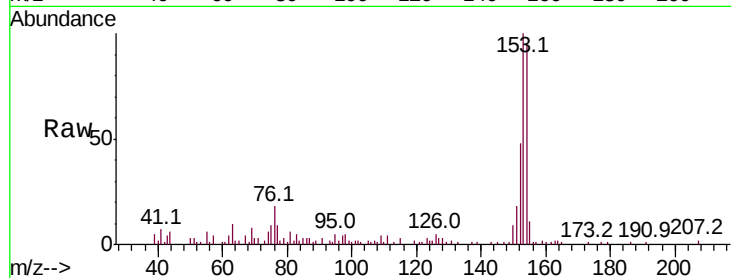
Tot Ion:154 Resp: 48995

Ion Ratio Lower Upper

154 100

153 105.3 90.2 135.2

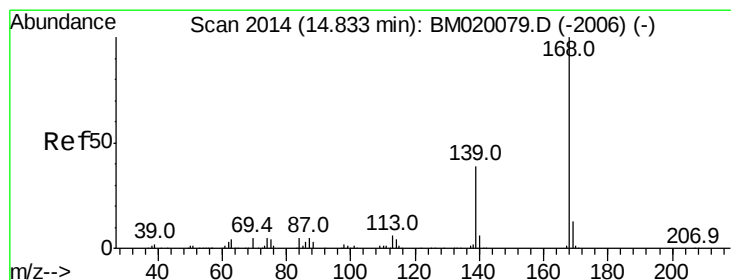
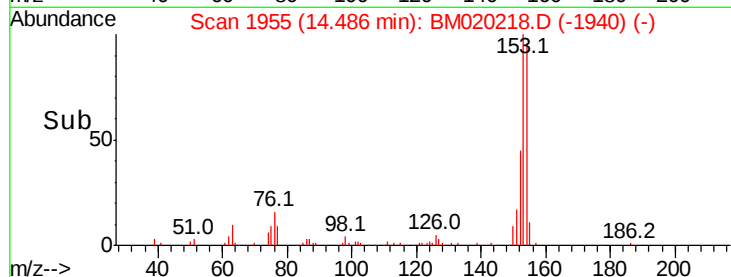
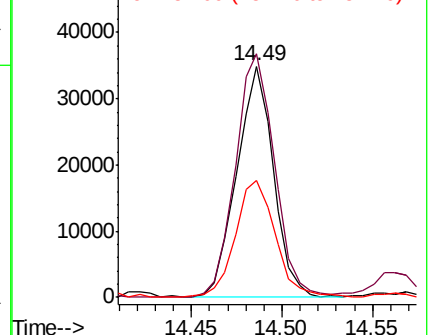
152 50.5 43.0 64.4



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



#55

Dibenzofuran

Concen: 2.758 ng

RT: 14.82 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

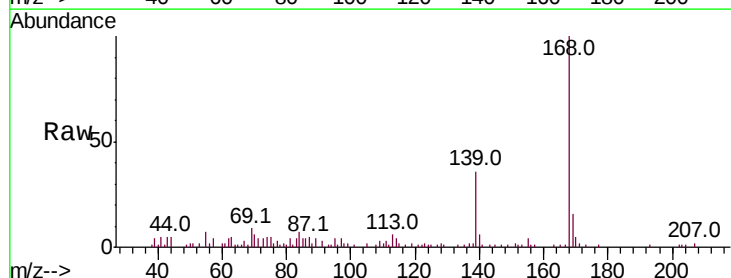
Tgt Ion:168 Resp: 65124

Ion Ratio Lower Upper

168 100

139 35.9 31.1 46.7

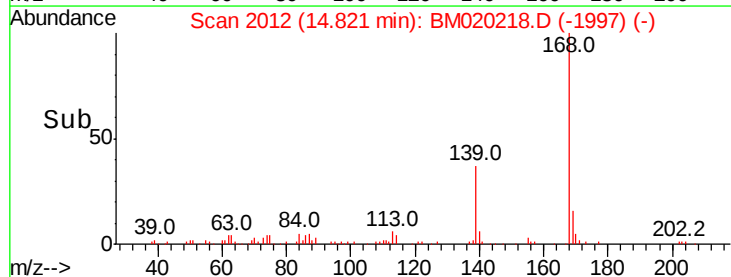
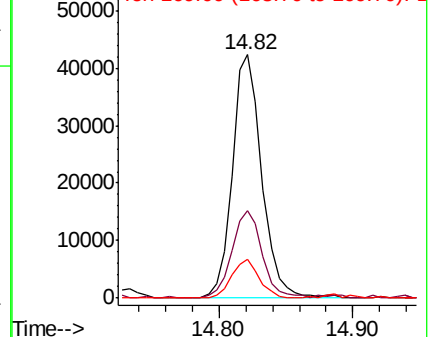
169 15.8 10.6 16.0

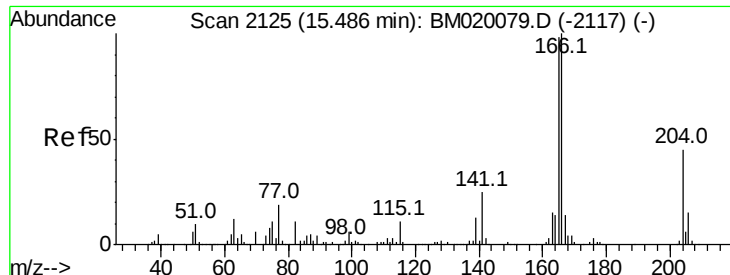


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 3.516 ng

RT: 15.47 min Scan# 2122

Delta R.T. -0.02 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

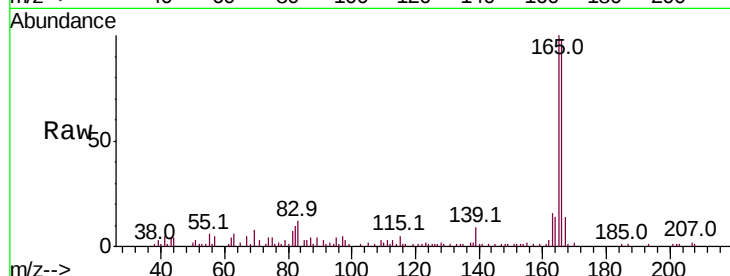
Tot Ion:166 Resp: 68185

Ion Ratio Lower Upper

166 100

165 102.3 78.2 117.2

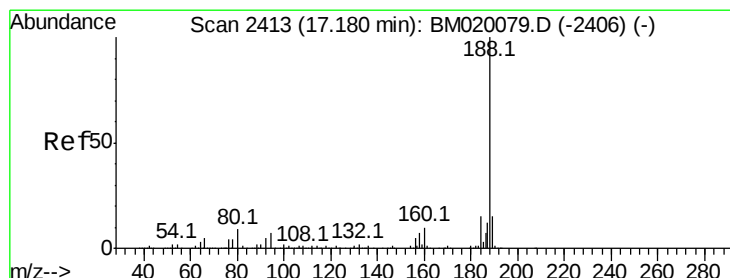
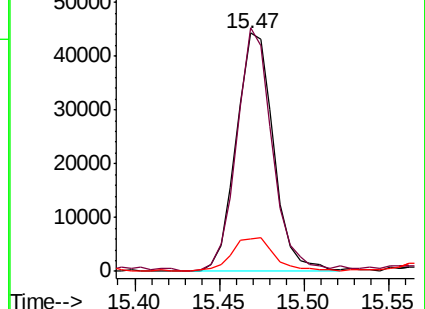
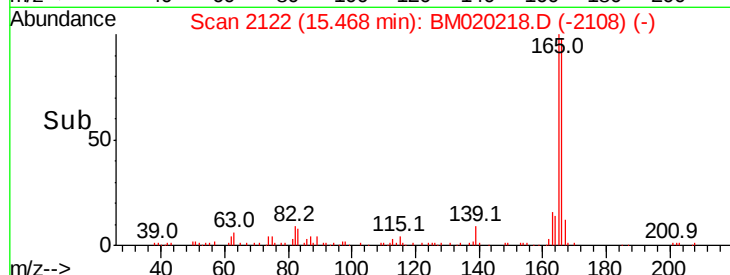
167 13.9 11.0 16.4



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: 17.17 min Scan# 2411

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

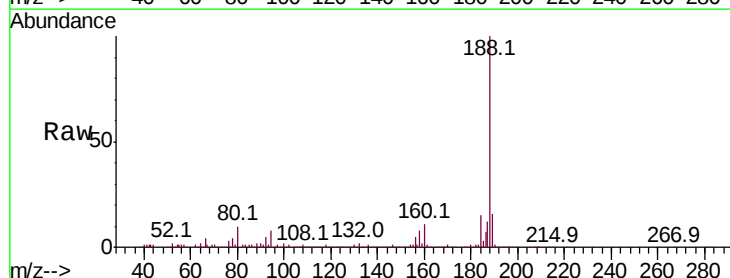
Tgt Ion:188 Resp: 537215

Ion Ratio Lower Upper

188 100

94 7.7 5.8 8.6

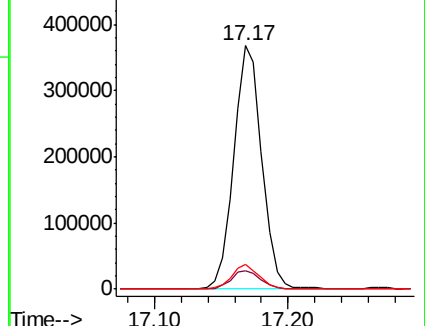
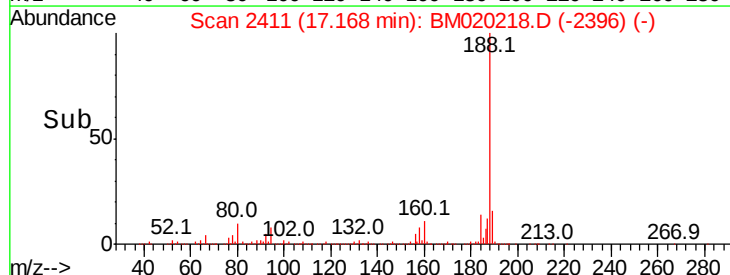
80 10.1 7.4 11.2

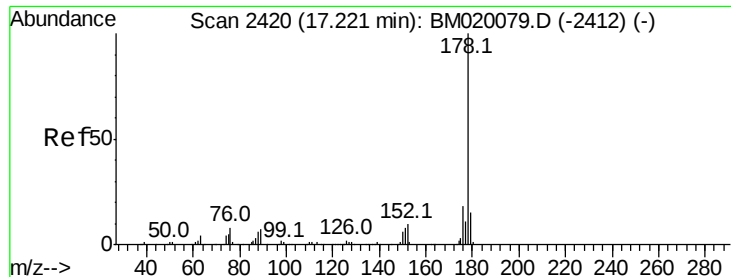


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





#71

Phenanthrene

Concen: 23.700 ng

RT: 17.21 min Scan# 2418

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

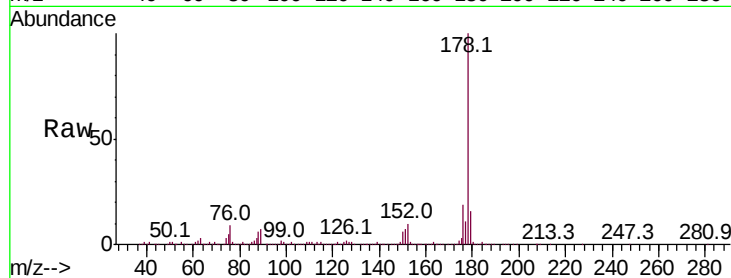
Tot Ion:178 Resp: 702818

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

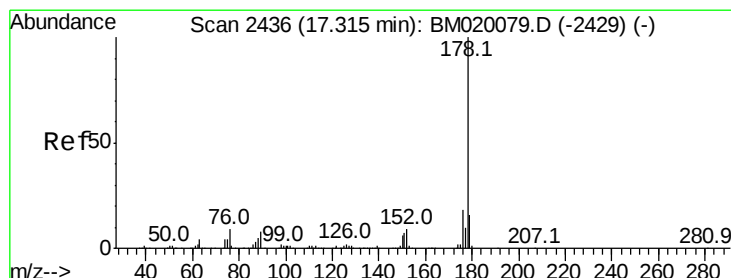
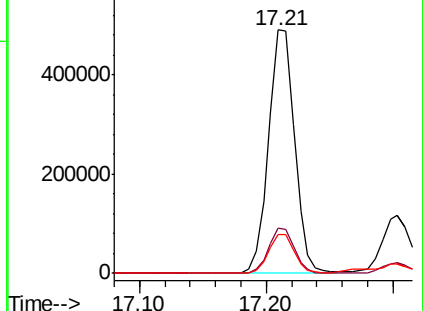
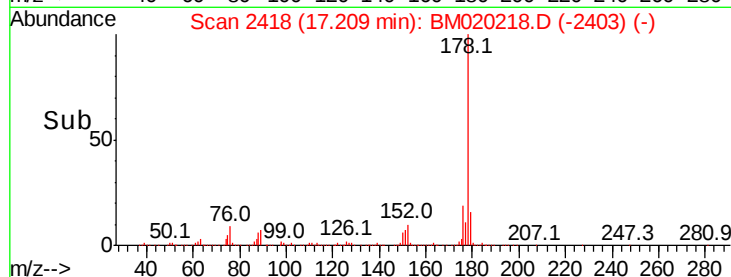
179 15.8 12.4 18.6



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: 5.810 ng

RT: 17.30 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

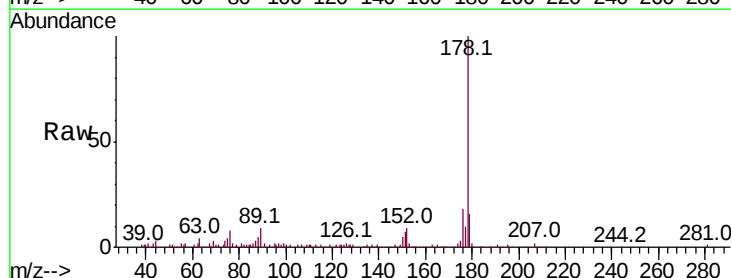
Tgt Ion:178 Resp: 172256

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

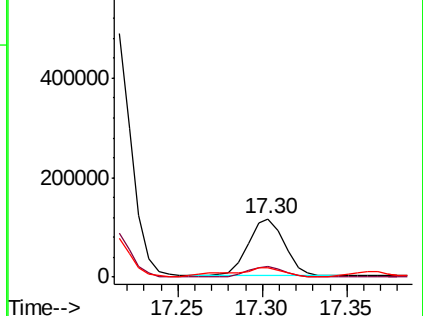
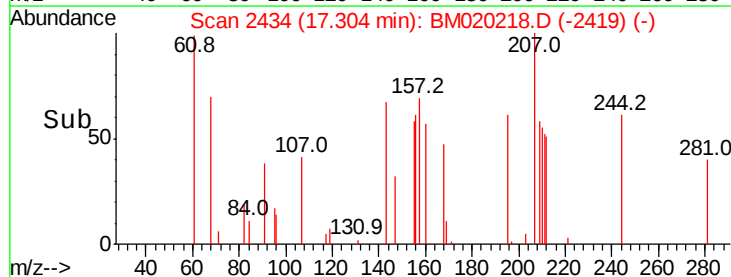
179 15.7 12.4 18.6

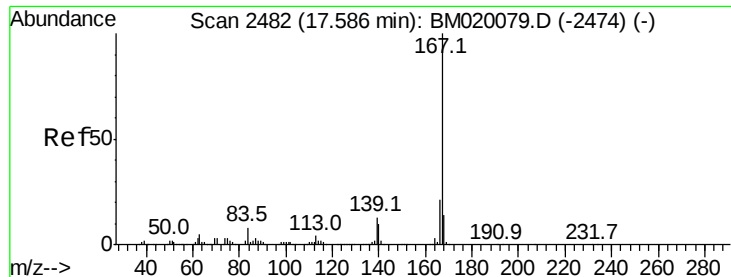


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 2.410 ng

RT: 17.58 min Scan# 2481

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

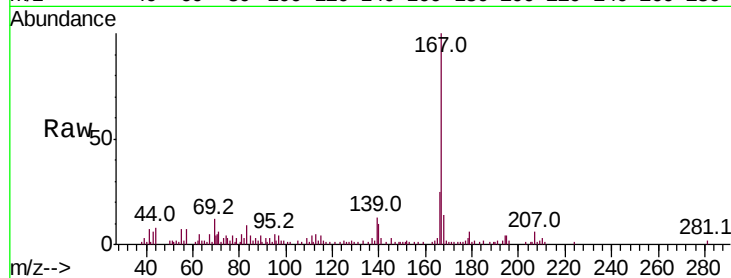
Tot Ion:167 Resp: 64471

Ion Ratio Lower Upper

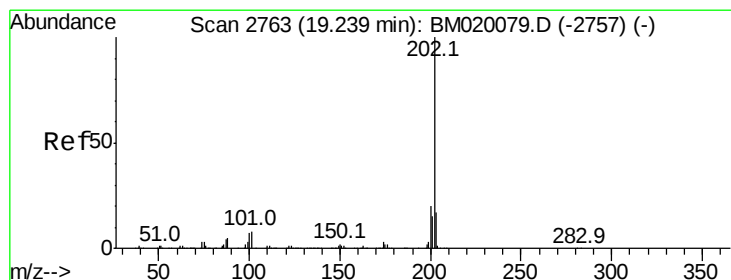
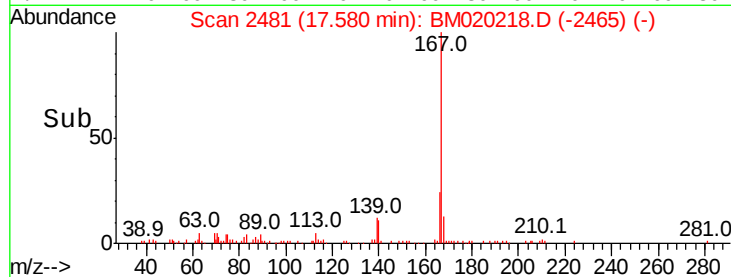
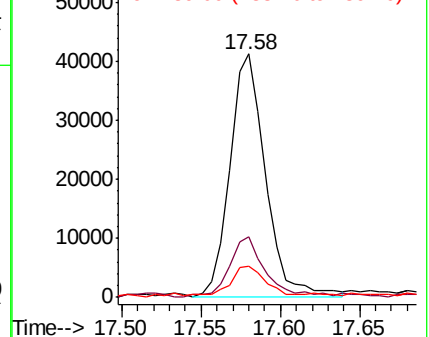
167 100

166 24.9 17.0 25.6

139 12.9 10.6 16.0



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



#75

Fluoranthene

Concen: 19.218 ng

RT: 19.23 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

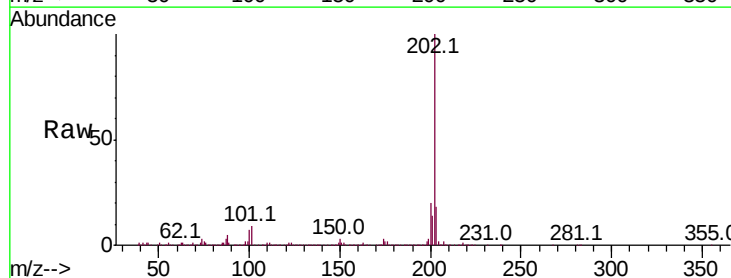
Tgt Ion:202 Resp: 721061

Ion Ratio Lower Upper

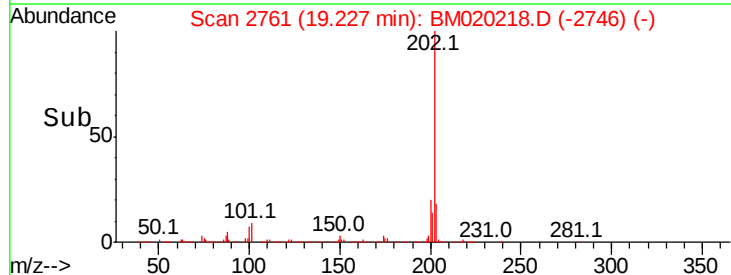
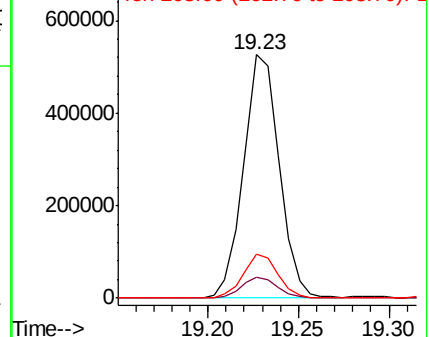
202 100

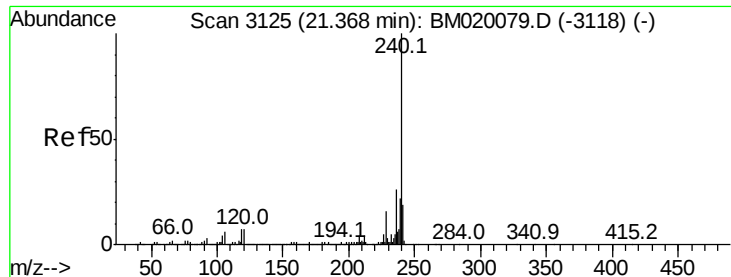
101 8.8 0.0 28.4

203 17.9 0.0 37.4



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

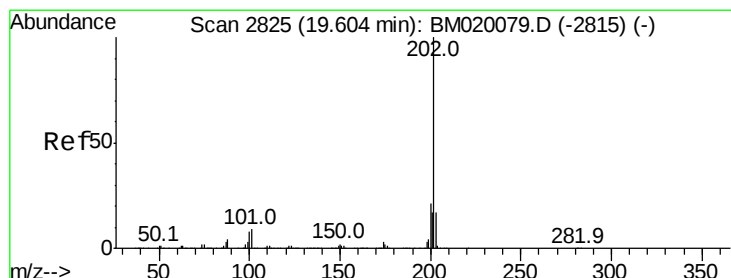
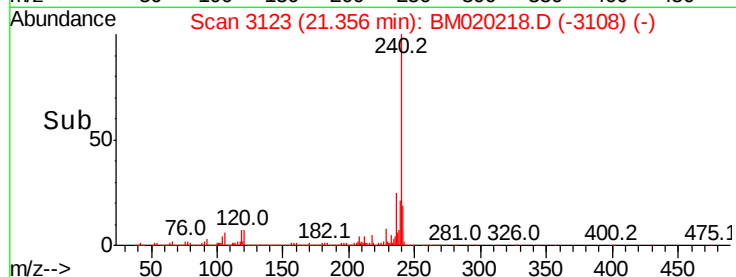
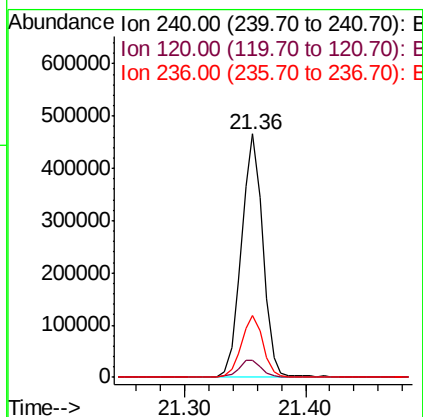
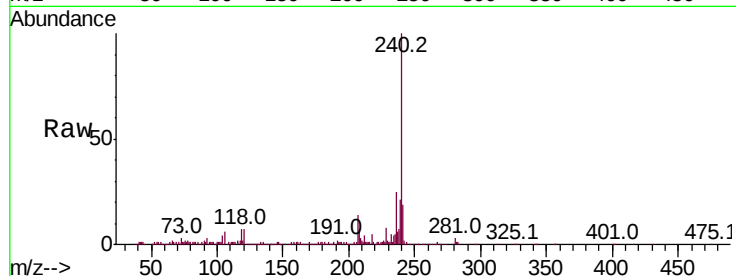




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.36 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

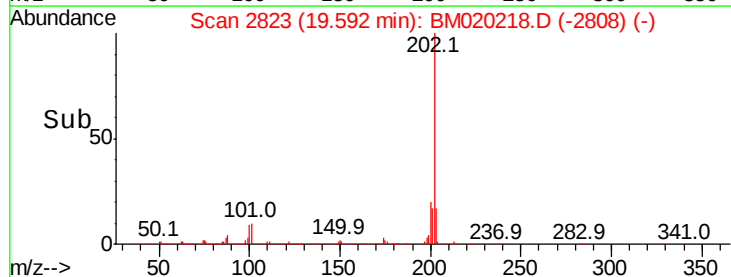
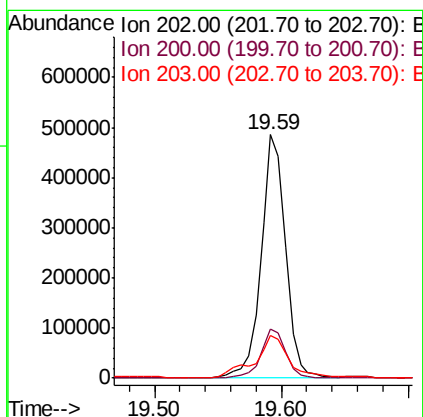
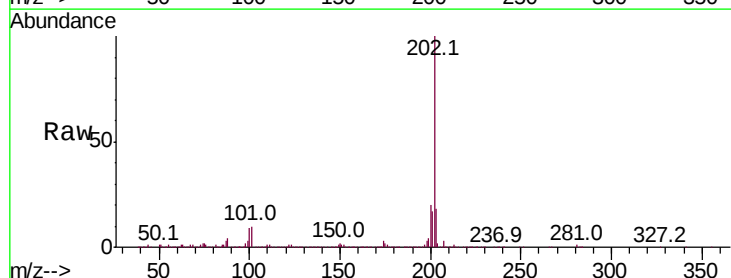
Instrument :
BNA_M
ClientSampleId :

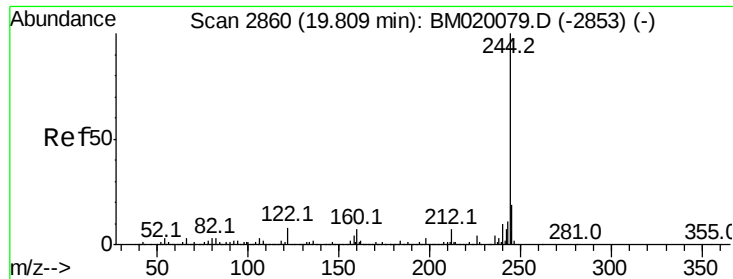
Tot Ion:240 Resp: 580484
Ion Ratio Lower Upper
240 100
120 7.1 5.6 8.4
236 25.2 20.9 31.3



#78
Pyrene
Concen: 16.713 ng
RT: 19.59 min Scan# 2823
Delta R.T. -0.01 min
Lab File: BM020218.D
Acq: 09 May 2019 15:39

Tgt Ion:202 Resp: 651357
Ion Ratio Lower Upper
202 100
200 20.1 16.5 24.7
203 17.8 13.9 20.9





#79

Terphenyl-d14

Concen: 88.844 ng

RT: 19.80 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

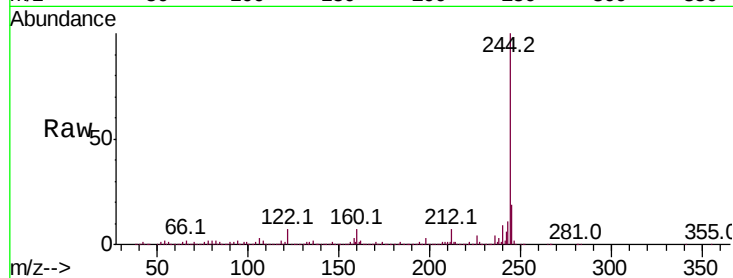
Tot Ion:244 Resp: 2956757

Ion Ratio Lower Upper

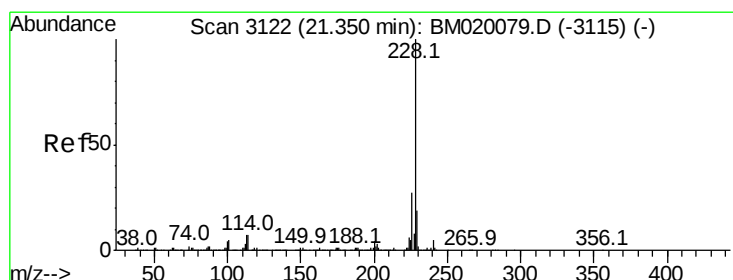
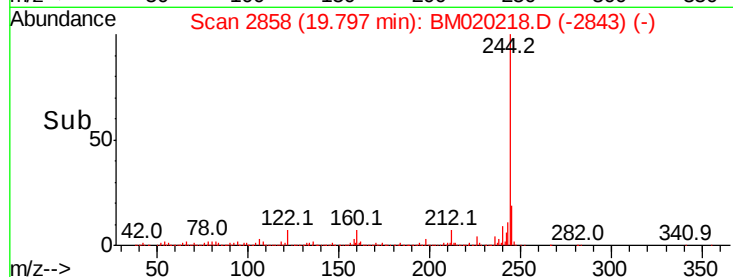
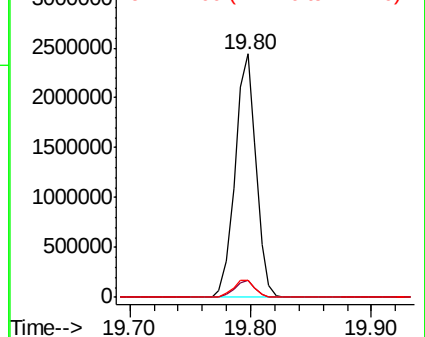
244 100

212 6.8 5.7 8.5

122 7.1 6.2 9.2



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: 6.861 ng

RT: 21.34 min Scan# 3120

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

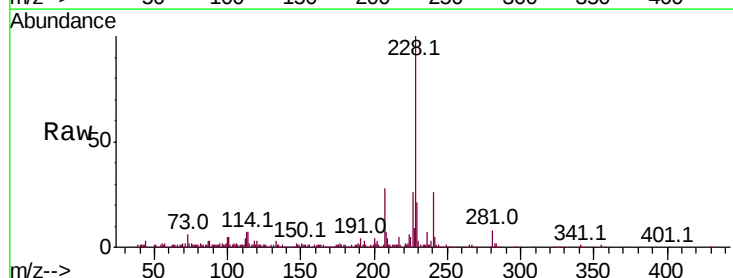
Tgt Ion:228 Resp: 279300

Ion Ratio Lower Upper

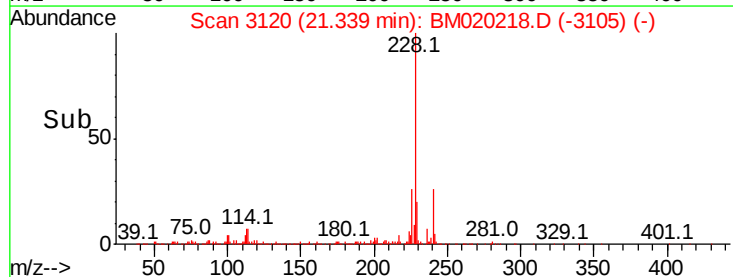
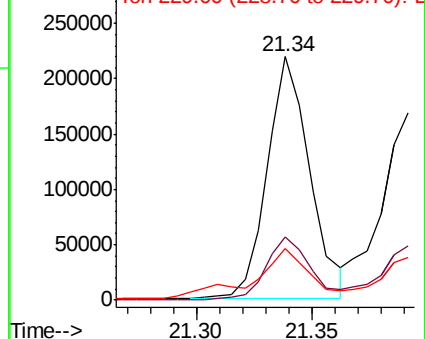
228 100

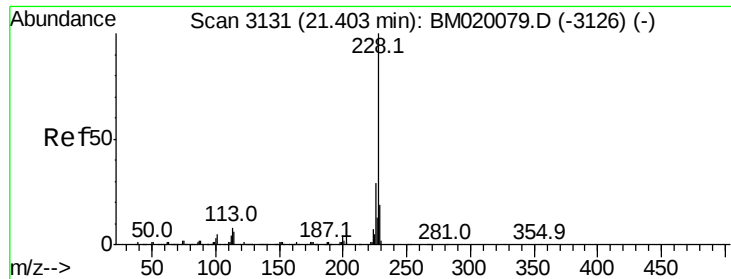
226 26.0 21.3 31.9

229 21.0 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: 5.924 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampled :

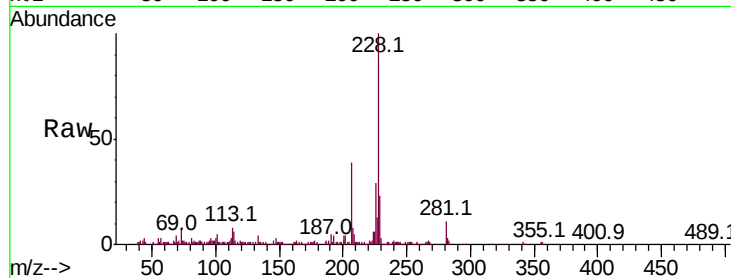
Tot Ion:228 Resp: 233905

Ion Ratio Lower Upper

228 100

226 29.2 23.0 34.6

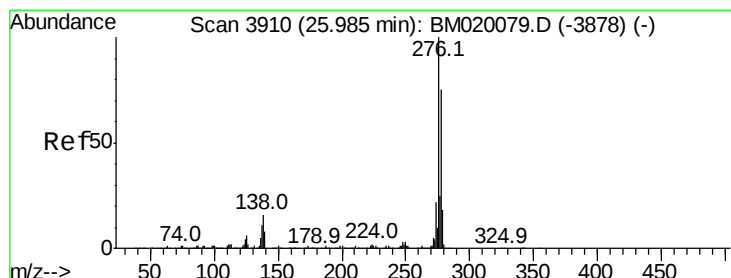
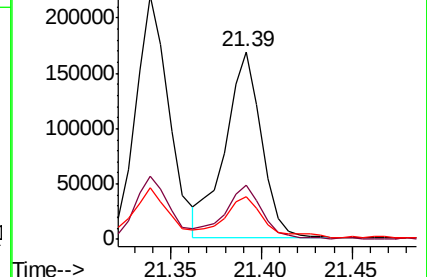
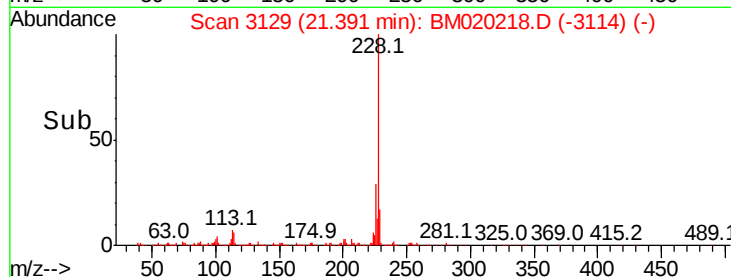
229 23.0 15.5 23.3



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.329 ng

RT: 25.96 min Scan# 3906

Delta R.T. -0.02 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

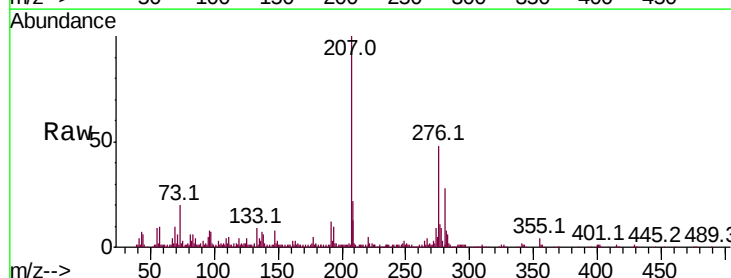
Tgt Ion:276 Resp: 156337

Ion Ratio Lower Upper

276 100

138 13.5 0.0 0.0#

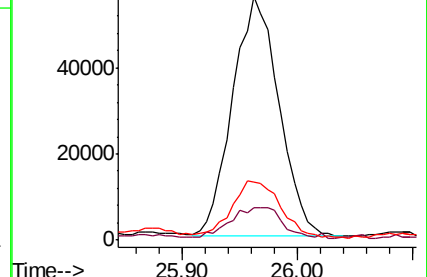
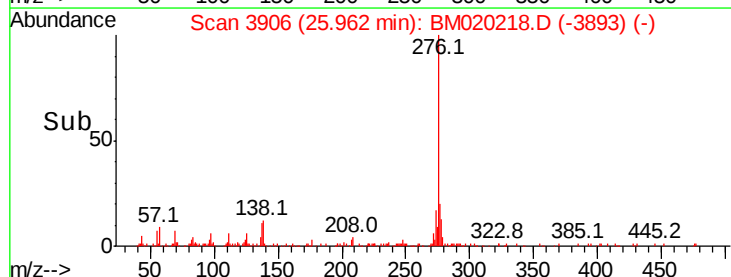
277 25.0 0.0 0.0#

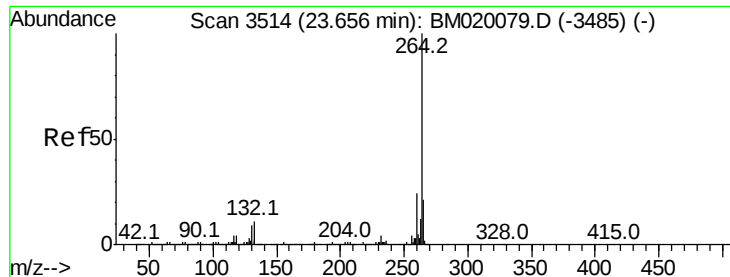


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.64 min Scan# 3512

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

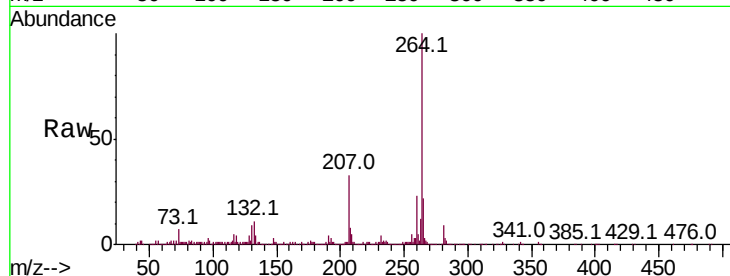
Tot Ion:264 Resp: 697863

Ion Ratio Lower Upper

264 100

260 23.0 19.2 28.8

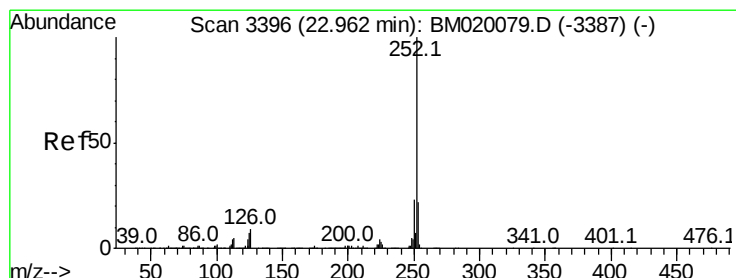
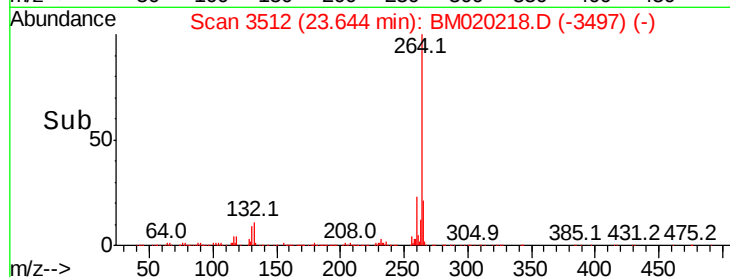
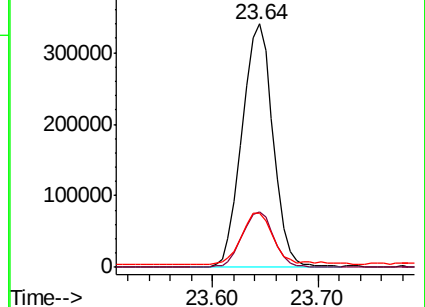
265 22.1 16.9 25.3



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: 8.658 ng

RT: 22.95 min Scan# 3394

Delta R.T. -0.01 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

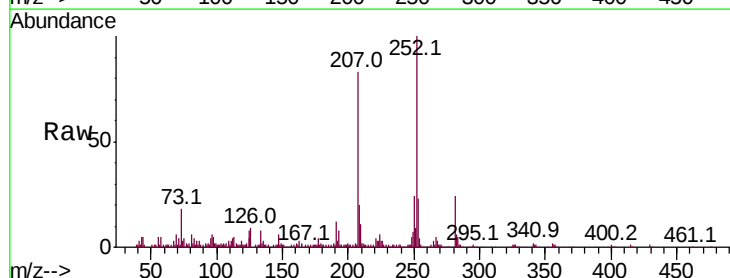
Tgt Ion:252 Resp: 399003

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

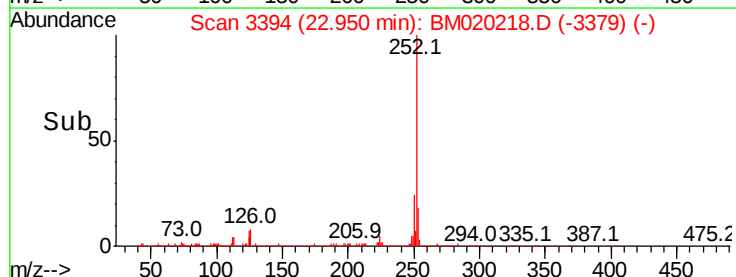
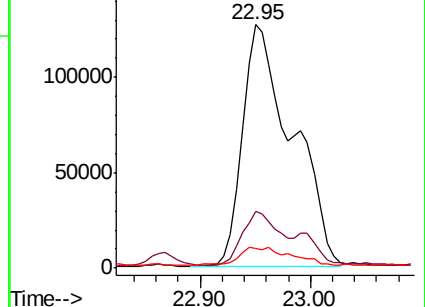
125 8.1 5.4 8.2

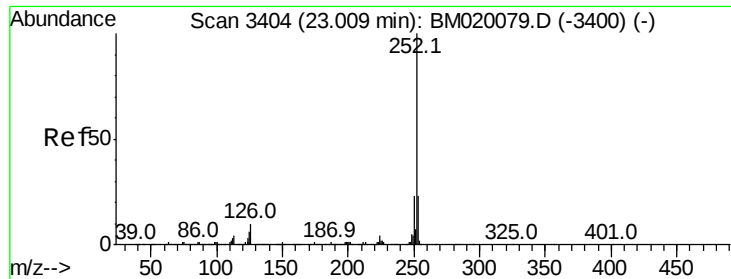


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 9.417 ng

RT: 22.95 min Scan# 3394

Delta R.T. -0.06 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

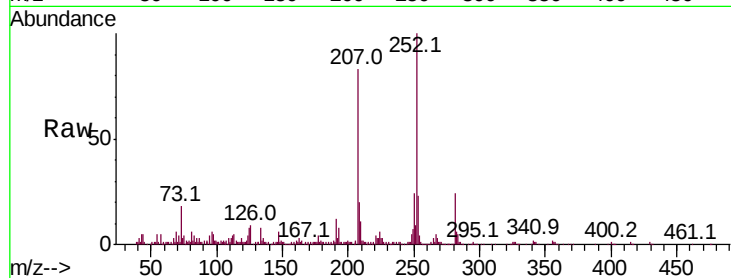
Tot Ion:252 Resp: 395866

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

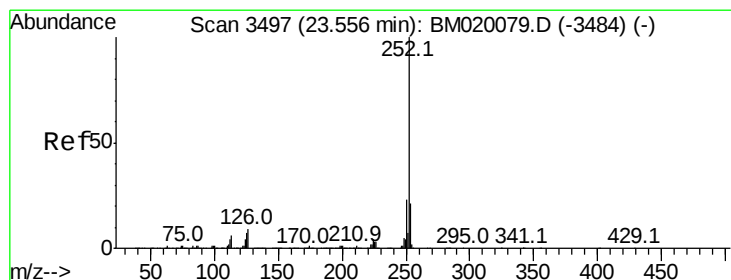
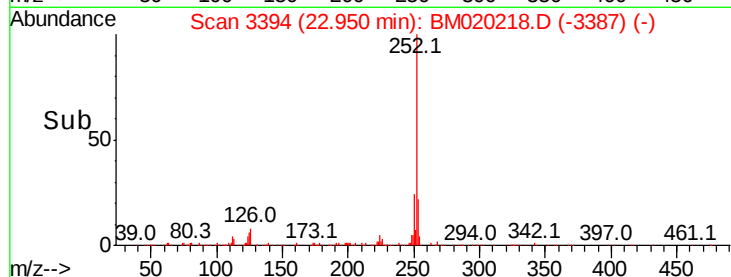
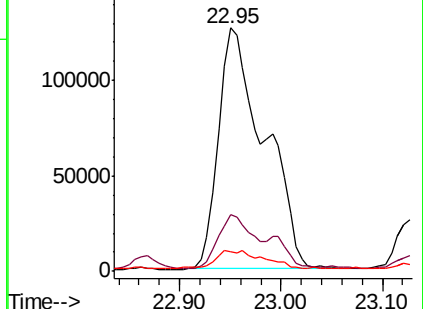
125 8.1 5.4 8.0#



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: 5.928 ng

RT: 23.54 min Scan# 3494

Delta R.T. -0.02 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

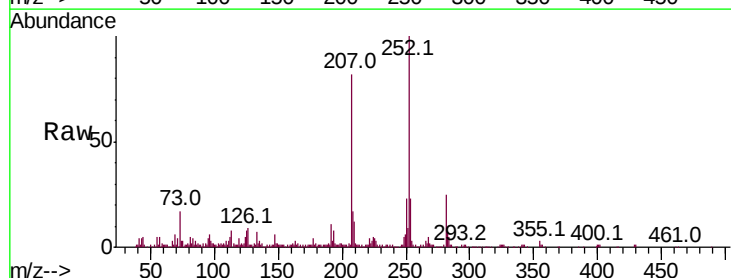
Tgt Ion:252 Resp: 248155

Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.6

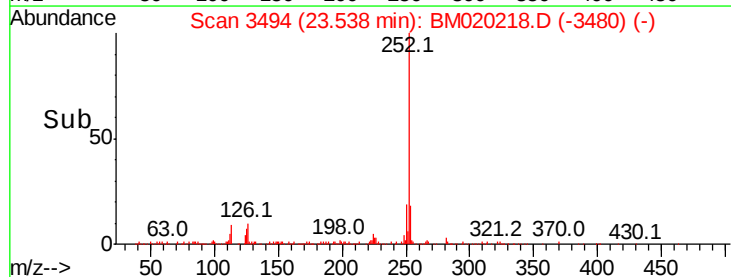
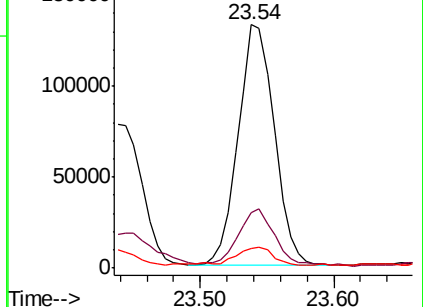
125 8.1 5.5 8.3

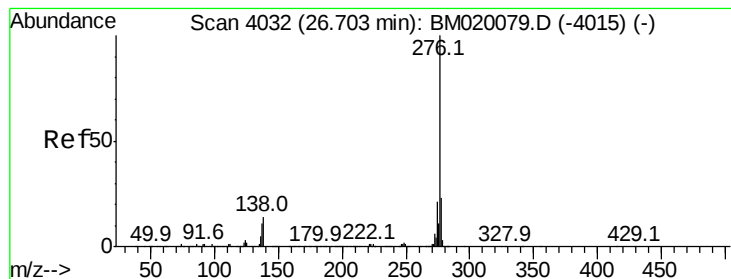


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 3.802 ng

RT: 26.69 min Scan# 4029

Delta R.T. -0.02 min

Lab File: BM020218.D

Acq: 09 May 2019 15:39

Instrument :

BNA_M

ClientSampleId :

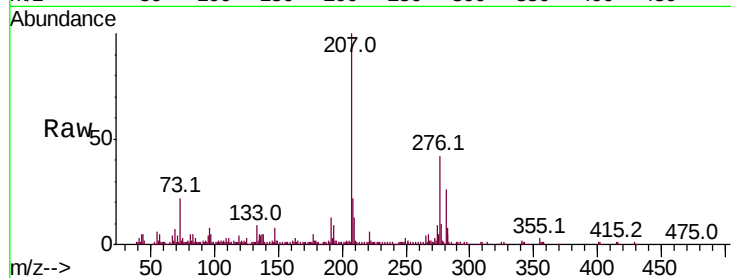
Tot Ion: 276 Resp: 157115

Ion Ratio Lower Upper

276 100

277 23.8 18.4 27.6

138 13.0 11.1 16.7



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

