

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\
 Data File : BM020163.D
 Acq On : 07 May 2019 10:39
 Operator : JU/SJ
 Sample : K2672-04 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 07 11:22:18 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	7.80	152	181025	20.00	ng	0.00
21) Naphthalene-d8	10.59	136	639191	20.00	ng	0.00
39) Acenaphthene-d10	14.44	164	369403	20.00	ng	0.00
64) Phenanthrene-d10	17.19	188	870060	20.00	ng	0.00
76) Chrysene-d12	21.37	240	868694	20.00	ng	0.00
87) Perylene-d12	23.67	264	1015460	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	76426	6.90	ng	0.01
7) Phenol-d6	6.96	99	105038	6.94	ng	0.01
23) Nitrobenzene-d5	8.96	82	60969	3.77	ng	0.00
42) 2,4,6-Tribromophenol	15.93	330	37286	6.50	ng	0.01
45) 2-Fluorobiphenyl	13.06	172	131149	4.37	ng	0.00
79) Terphenyl-d14	19.81	244	203774	4.09	ng	0.00

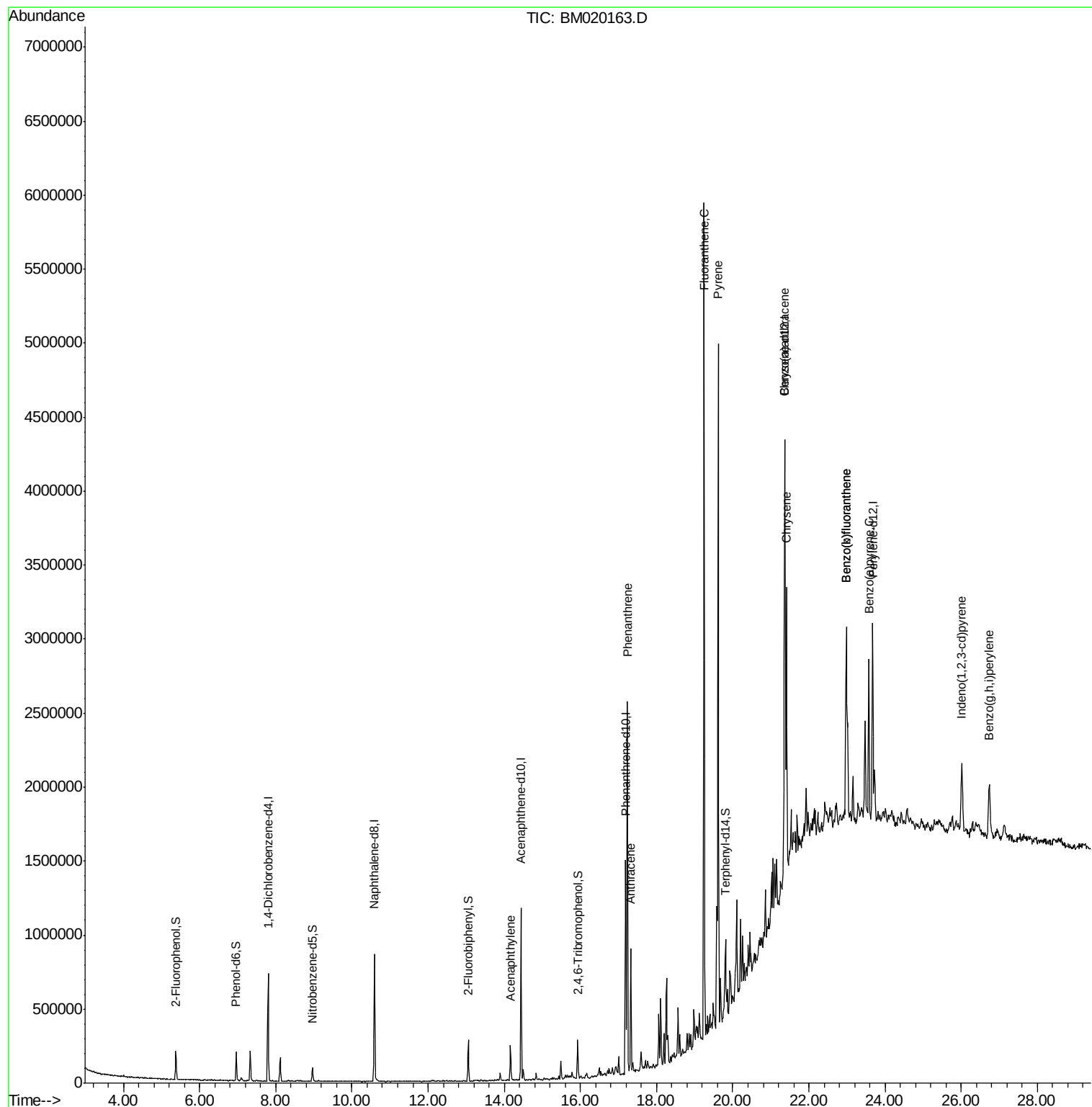
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Acenaphthylene	14.16	152	164527	4.235	ng	97
71) Phenanthrene	17.23	178	1460467	30.409	ng	99
72) Anthracene	17.32	178	488867	10.181	ng	99
75) Fluoranthene	19.25	202	3269780	53.808	ng	100
78) Pyrene	19.62	202	2683615	46.013	ng	99
81) Benzo(a)anthracene	21.36	228	1256770	20.629	ng	98
83) Chrysene	21.41	228	1073218	18.164	ng	96
86) Indeno(1,2,3-cd)pyrene	26.01	276	473103	6.732	ng	# 100
88) Benzo(b)fluoranthene	22.98	252	1200797	17.907	ng	# 95
89) Benzo(k)fluoranthene	22.98	252	1192407	19.494	ng	# 96
90) Benzo(a)pyrene	23.57	252	803836	13.197	ng	96
92) Benzo(a,h,i)perylene	26.74	276	473494	7.874	ng	96

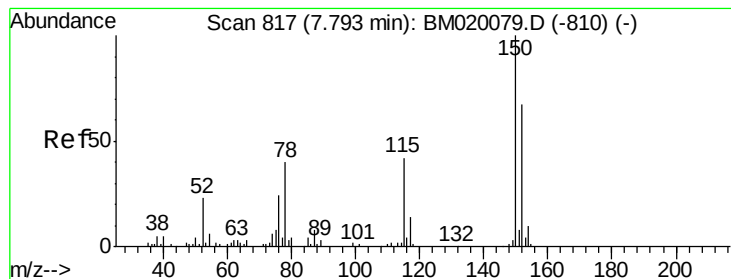
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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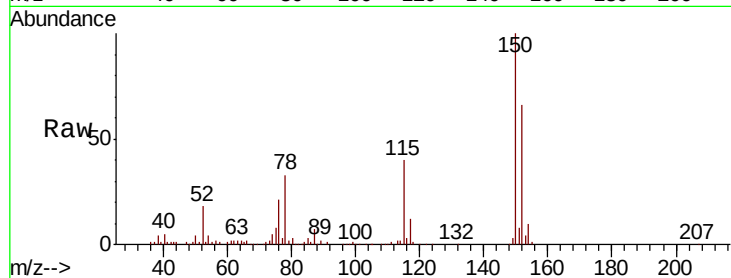


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	119.8	179.8
115	61.3	50.8	76.2

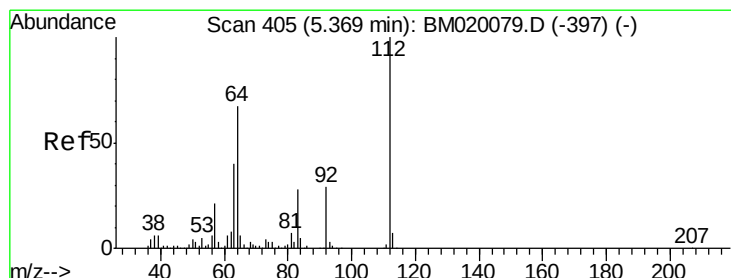
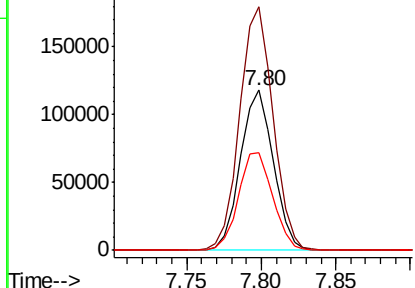
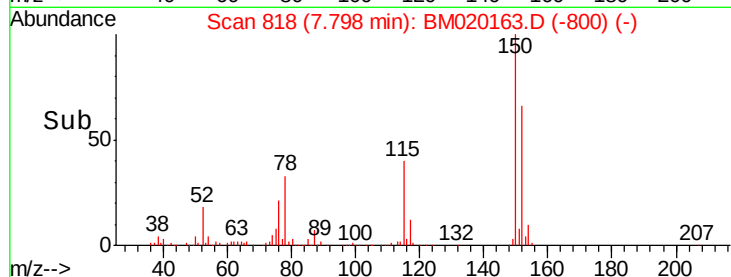


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

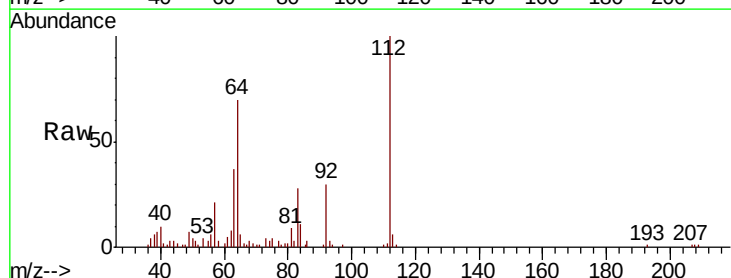
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 6.901 ng
RT: 5.38 min Scan# 407
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.1	53.8	80.6
63	37.2	32.3	48.5

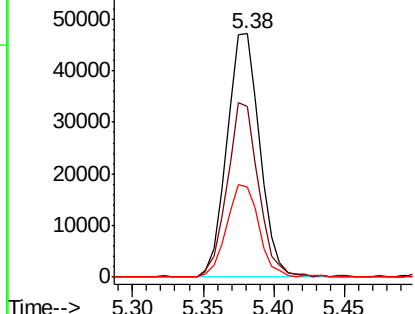
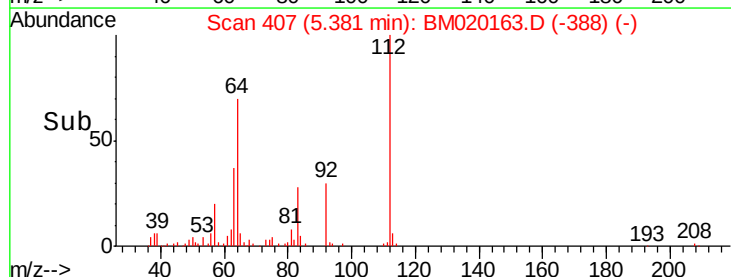


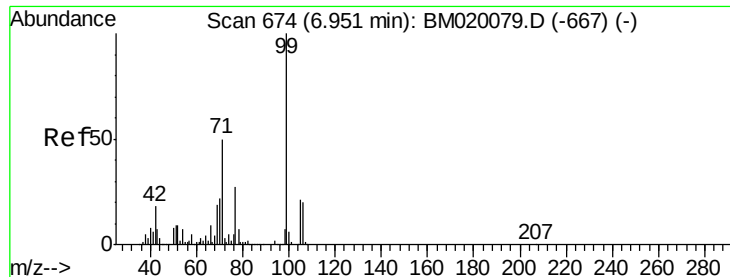
Abundance

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: 6.943 ng

RT: 6.96 min Scan# 676

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampleId :

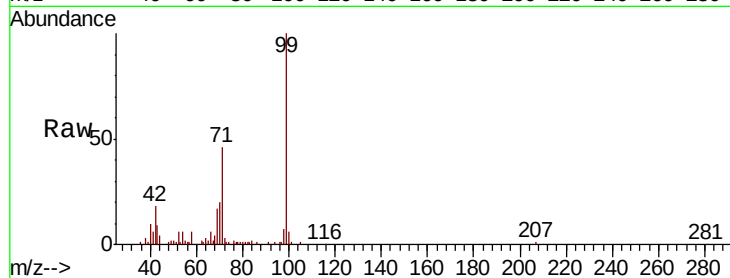
Tot Ion: 99 Resp: 105038

Ion Ratio Lower Upper

99 100

42 17.7 14.2 21.2

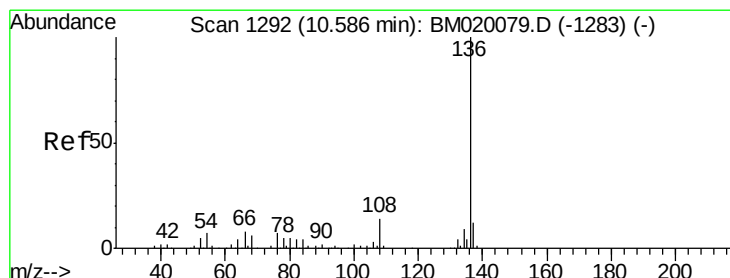
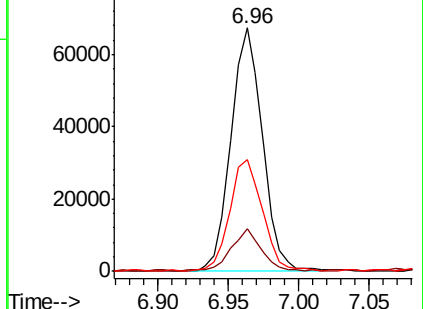
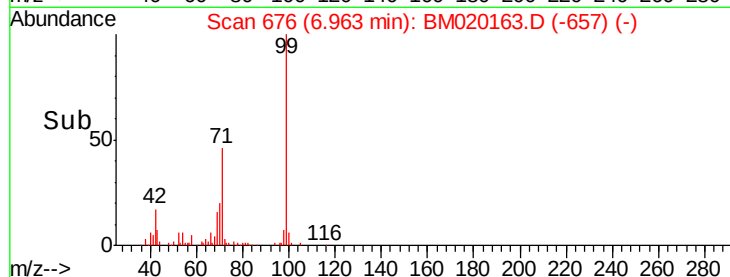
71 45.9 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM020079.D (-667) (-)

Ion 42.00 (41.70 to 42.70): BM020079.D (-667) (-)

Ion 71.00 (70.70 to 71.70): BM020079.D (-667) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.59 min Scan# 1293

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Tgt Ion: 136 Resp: 639191

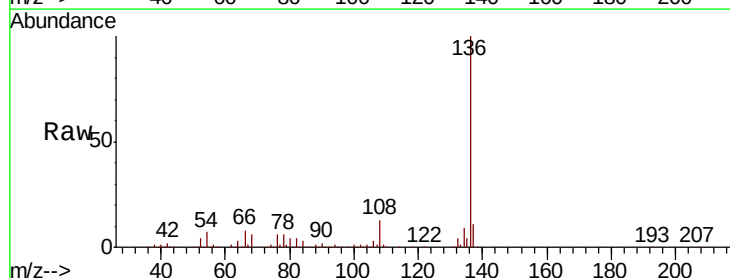
Ion Ratio Lower Upper

136 100

137 11.2 9.6 14.4

54 7.0 5.5 8.3

68 6.2 4.6 6.8

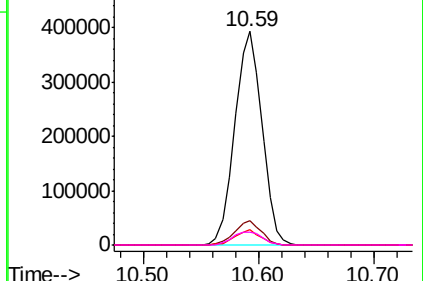
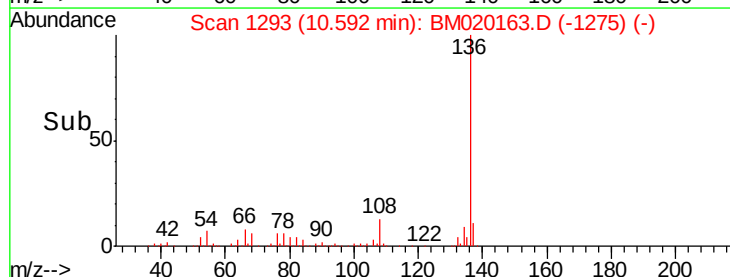


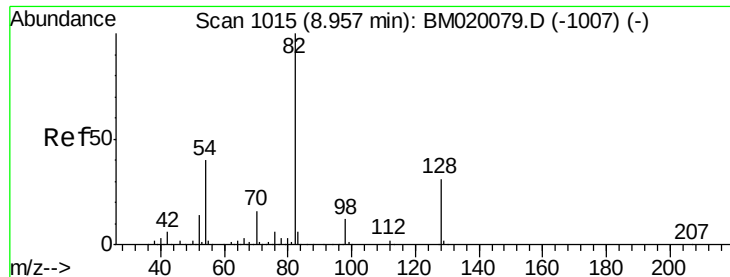
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

Ion 137.00 (136.70 to 137.70): BM020079.D (-1283) (-)

Ion 54.00 (53.70 to 54.70): BM020079.D (-1283) (-)

Ion 68.00 (67.70 to 68.70): BM020079.D (-1283) (-)

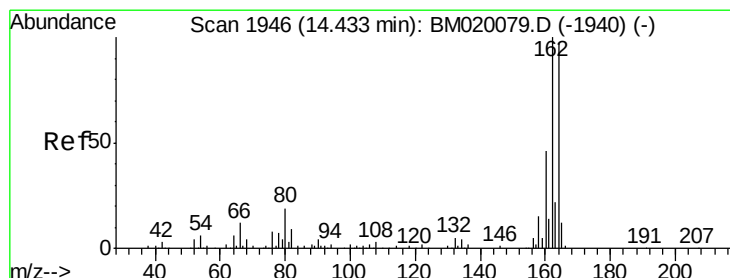
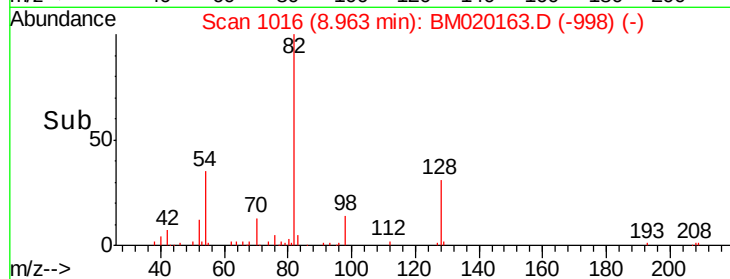
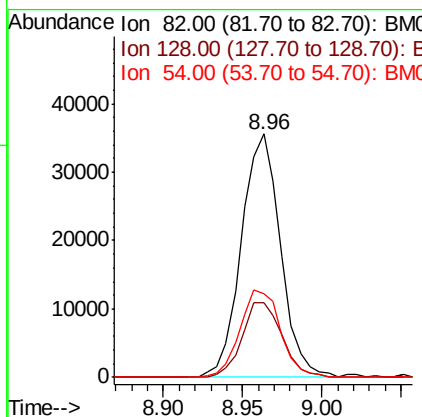
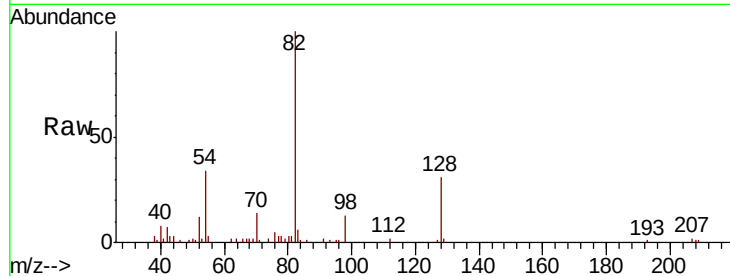




#23
Nitrobenzene-d5
Concen: 3.766 ng
RT: 8.96 min Scan# 1016
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

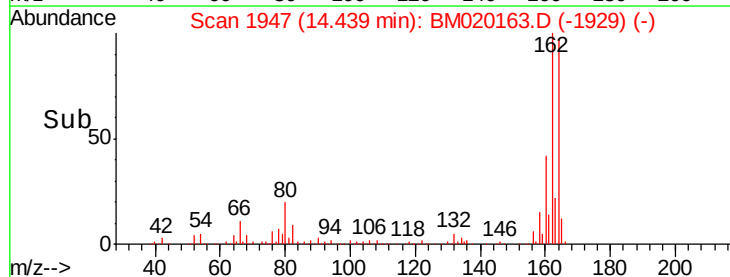
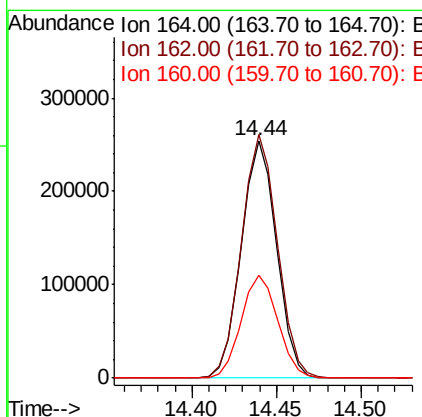
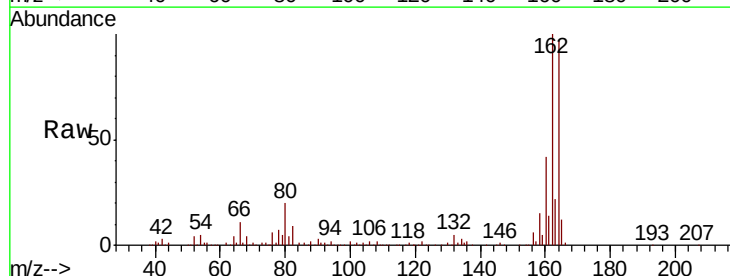
Instrument :
BNA_M
ClientSampleId :

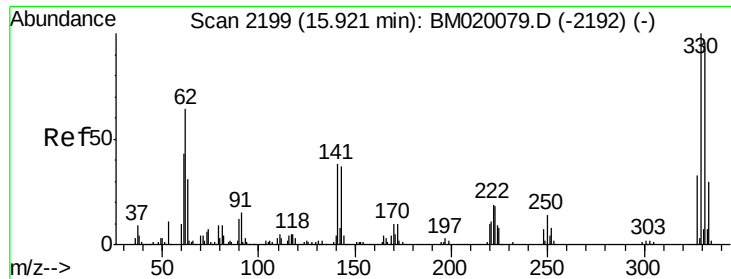
Tot Ion	82.00	Resp	60969
Ion Ratio	Lower	Upper	
82	100		
128	30.7	25.2	37.8
54	34.2	31.9	47.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.44 min Scan# 1947
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

Tgt Ion	164.00	Resp	369403
Ion Ratio	Lower	Upper	
164	100		
162	102.6	82.2	123.2
160	43.1	37.6	56.4

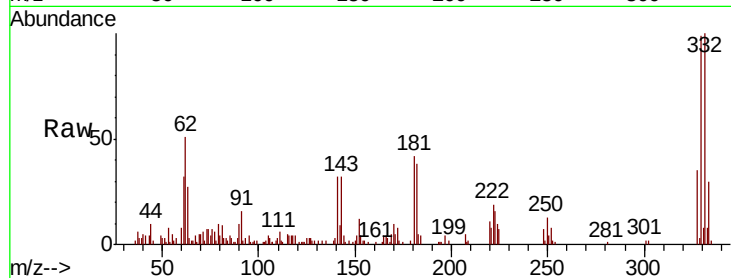




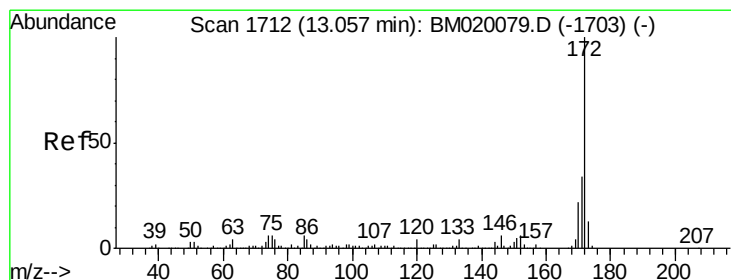
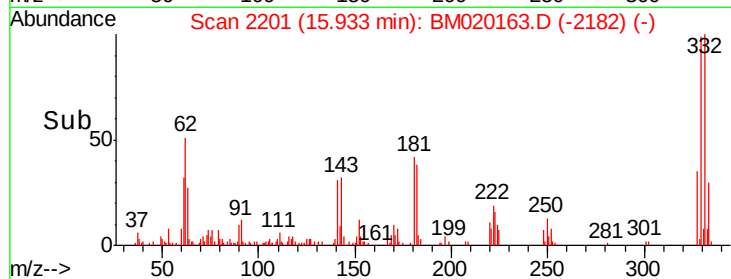
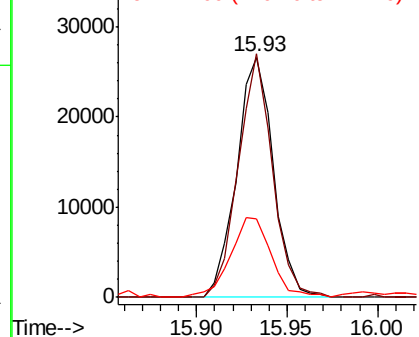
#42
 2,4,6-Tribromophenol
 Concen: 6.503 ng
 RT: 15.93 min Scan# 2201
 Delta R.T. 0.01 min
 Lab File: BM020163.D
 Acq: 07 May 2019 10:39

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:330 Resp: 37286
 Ion Ratio Lower Upper
 330 100
 332 94.3 76.8 115.2
 141 37.5 29.2 43.8

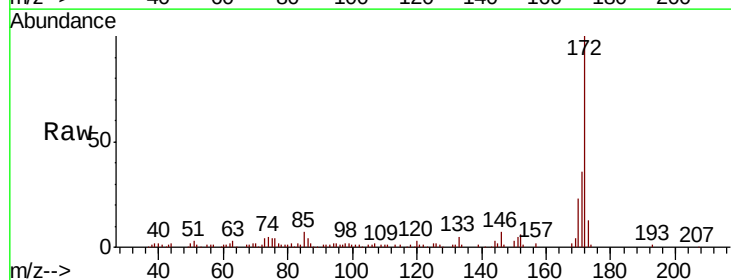


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

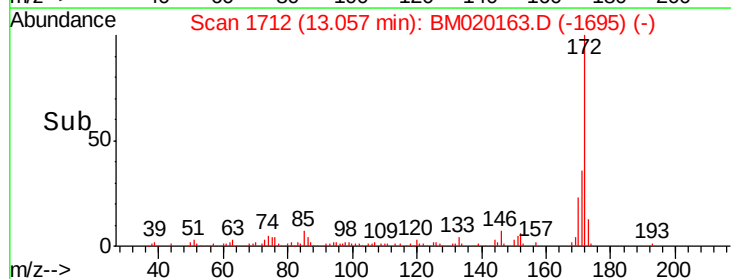
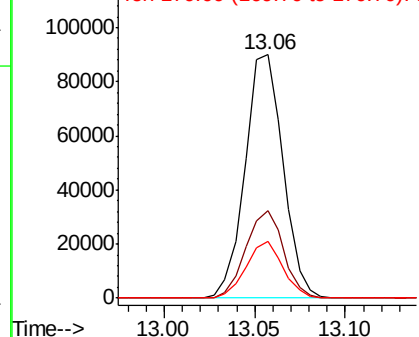


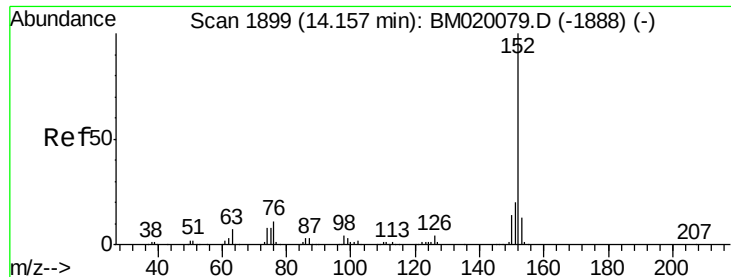
#45
 2-Fluorobiphenyl
 Concen: 4.368 ng
 RT: 13.06 min Scan# 1712
 Delta R.T. 0.00 min
 Lab File: BM020163.D
 Acq: 07 May 2019 10:39

Tgt Ion:172 Resp: 131149
 Ion Ratio Lower Upper
 172 100
 171 36.1 27.3 40.9
 170 23.3 17.9 26.9



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: 4.235 ng

RT: 14.16 min Scan# 1900

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampled :

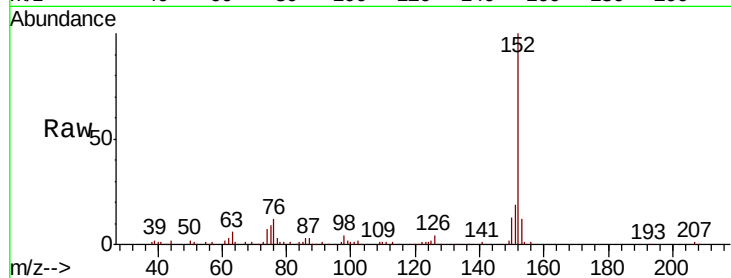
Tot Ion:152 Resp: 164527

Ion Ratio Lower Upper

152 100

151 18.9 16.2 24.2

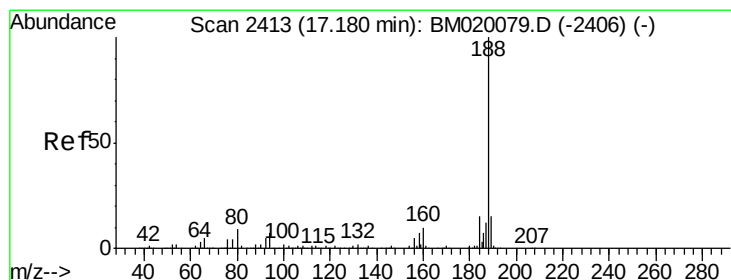
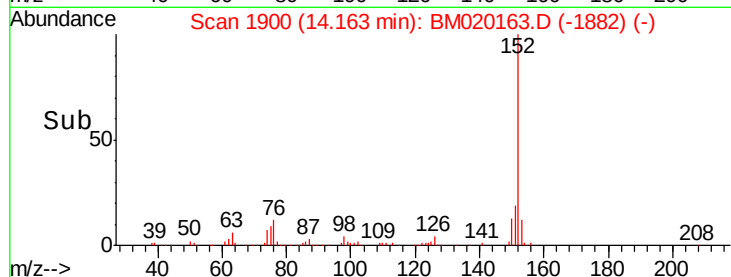
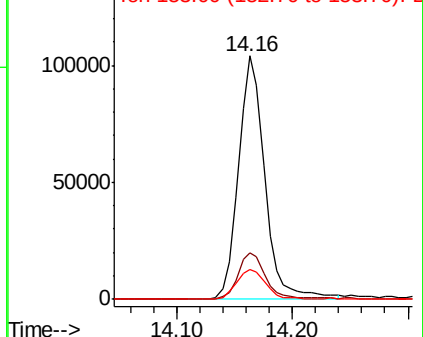
153 12.0 10.6 16.0



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

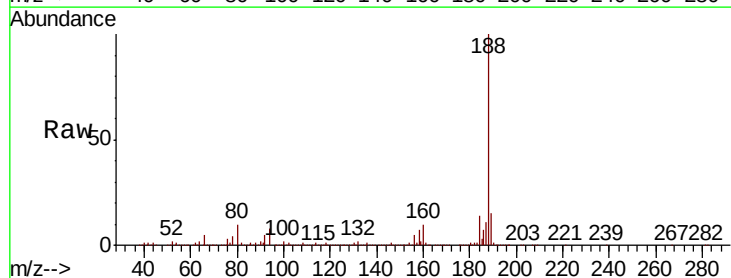
Tgt Ion:188 Resp: 870060

Ion Ratio Lower Upper

188 100

94 7.8 5.8 8.6

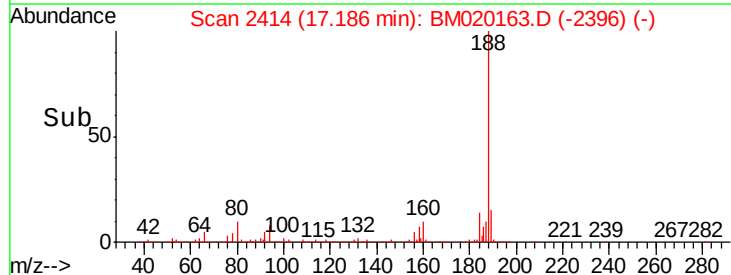
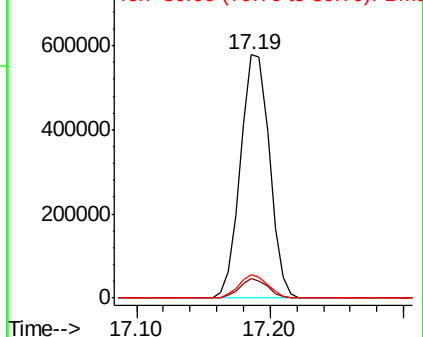
80 9.9 7.4 11.2

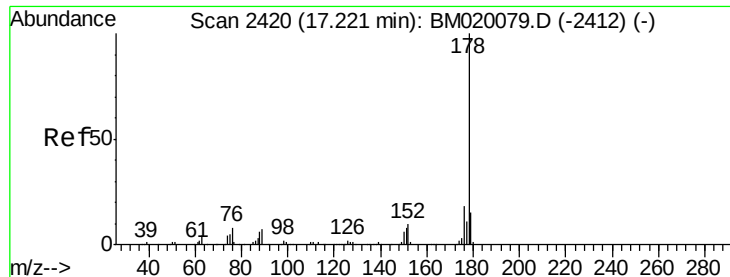


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

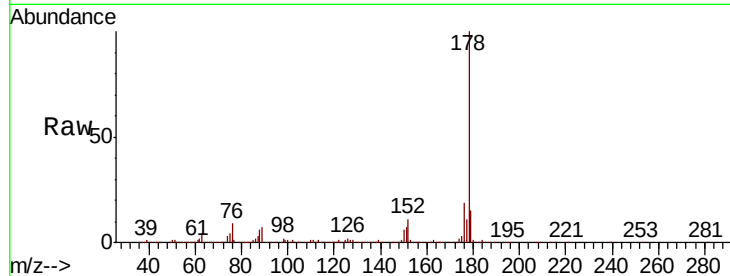




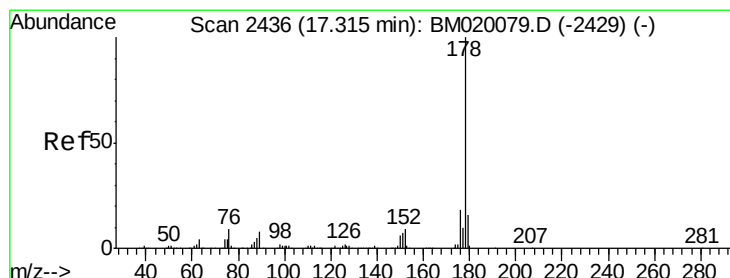
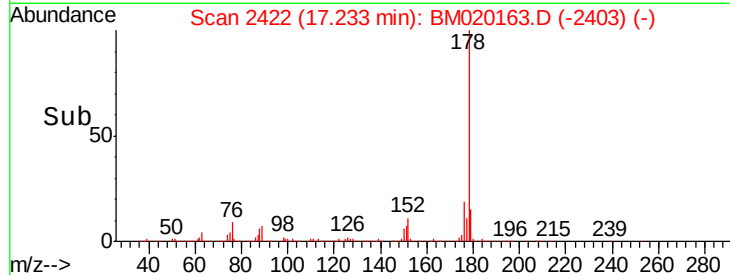
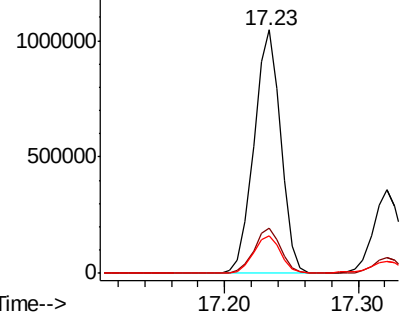
#71
Phenanthrene
Concen: 30.409 ng
RT: 17.23 min Scan# 2422
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

Instrument :
BNA_M
ClientSampled :

Tot Ion:178 Resp: 1460467
Ion Ratio Lower Upper
178 100
176 18.6 14.6 21.8
179 15.2 12.4 18.6

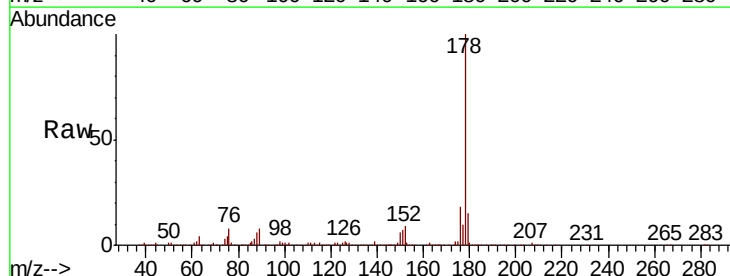


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

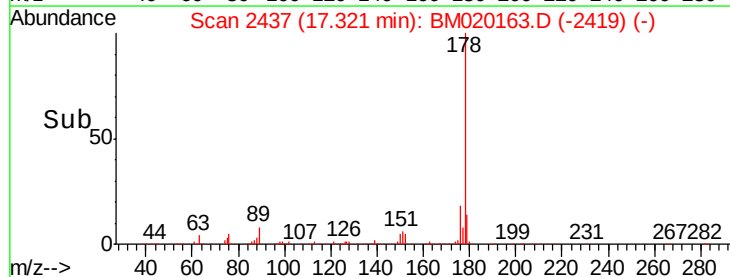
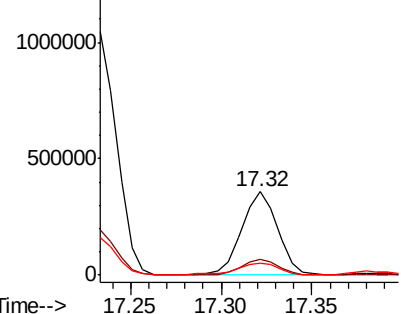


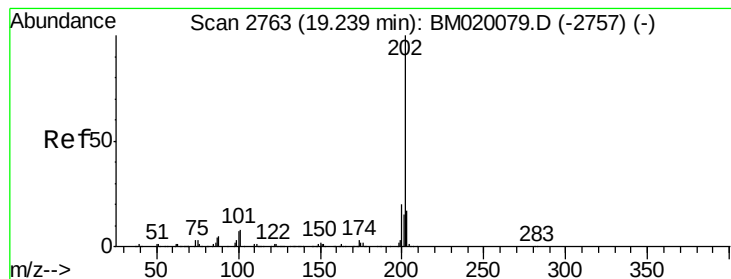
#72
Anthracene
Concen: 10.181 ng
RT: 17.32 min Scan# 2437
Delta R.T. 0.01 min
Lab File: BM020163.D
Acq: 07 May 2019 10:39

Tgt Ion:178 Resp: 488867
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.1 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





#75

Fluoranthene

Concen: 53.808 ng

RT: 19.25 min Scan# 2765

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampleId :

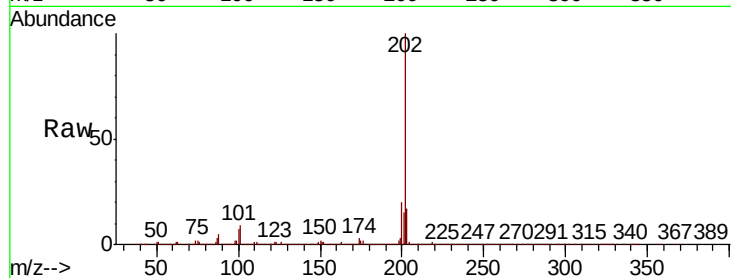
Tot Ion:202 Resp: 3269780

Ion Ratio Lower Upper

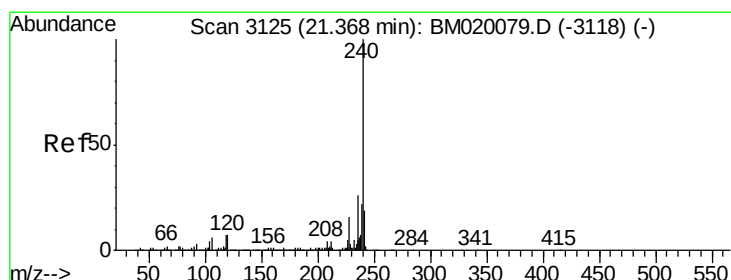
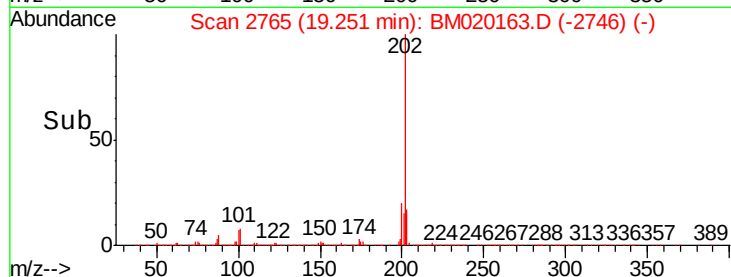
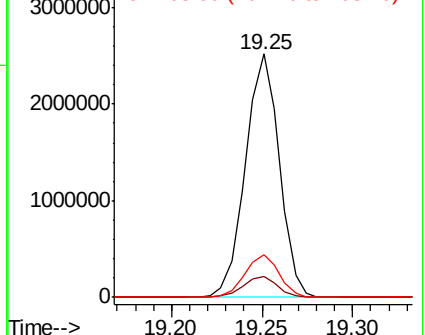
202 100

101 8.5 0.0 28.4

203 17.4 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: 21.37 min Scan# 3126

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

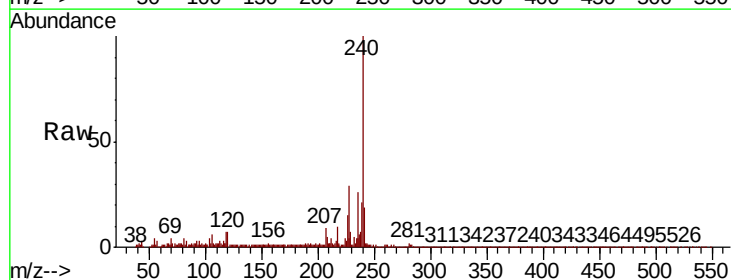
Tgt Ion:240 Resp: 868694

Ion Ratio Lower Upper

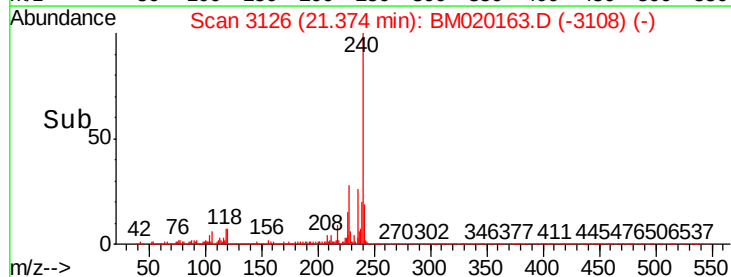
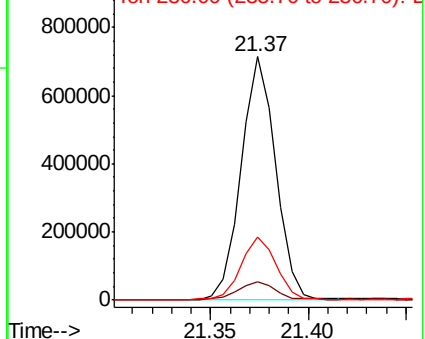
240 100

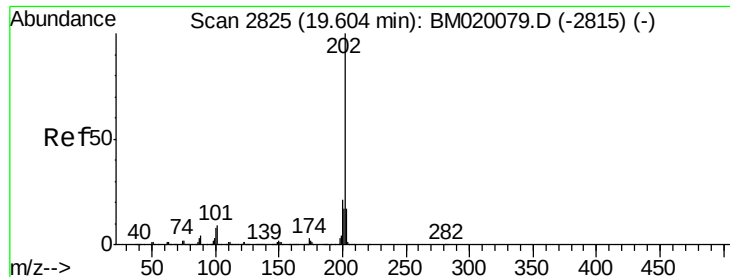
120 7.3 5.6 8.4

236 26.1 20.9 31.3



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: 46.013 ng

RT: 19.62 min Scan# 2827

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampled :

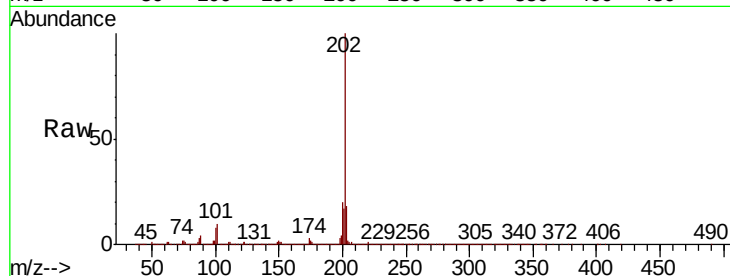
Tot Ion:202 Resp: 2683615

Ion Ratio Lower Upper

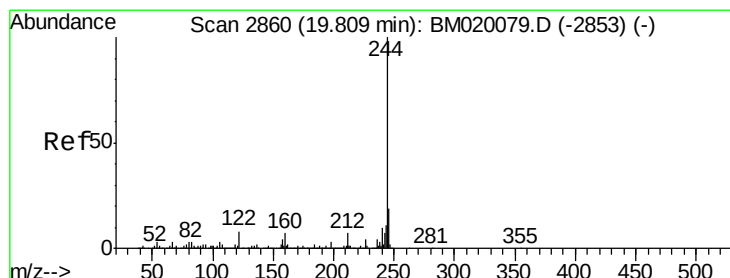
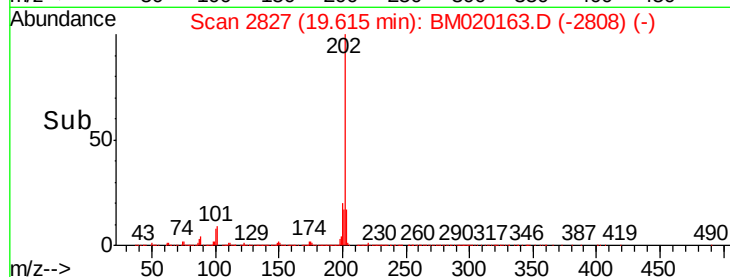
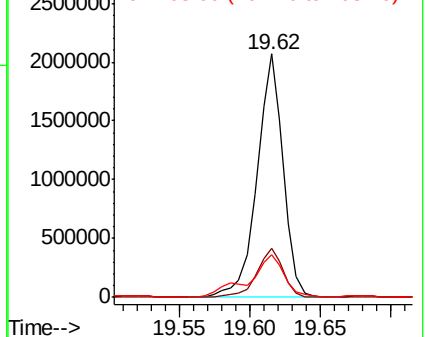
202 100

200 20.3 16.5 24.7

203 17.6 13.9 20.9



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: 4.092 ng

RT: 19.81 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

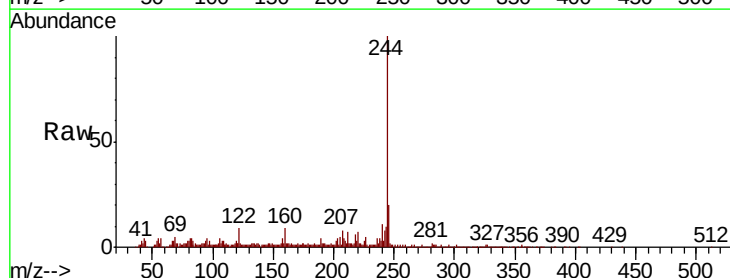
Tgt Ion:244 Resp: 203774

Ion Ratio Lower Upper

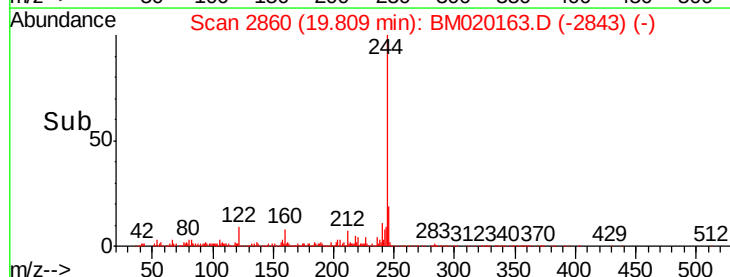
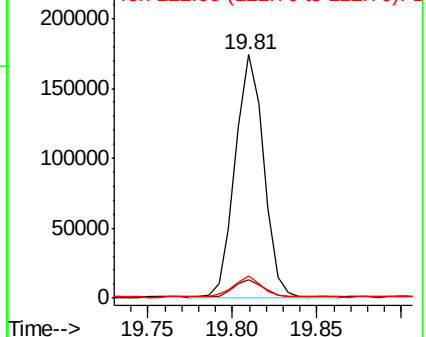
244 100

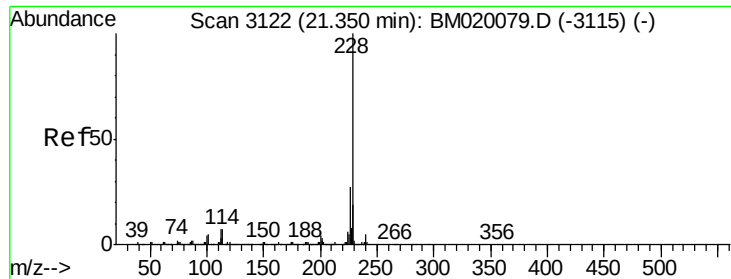
212 7.3 5.7 8.5

122 9.0 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: 20.629 ng

RT: 21.36 min Scan# 3123

Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

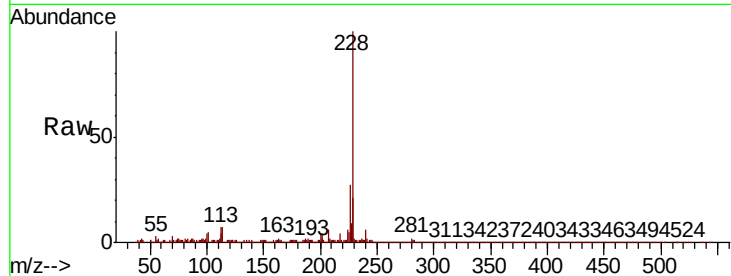
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 1256770

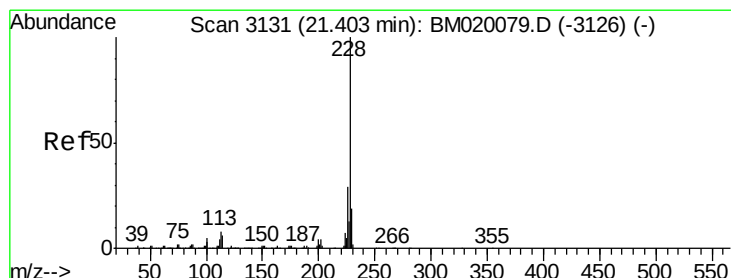
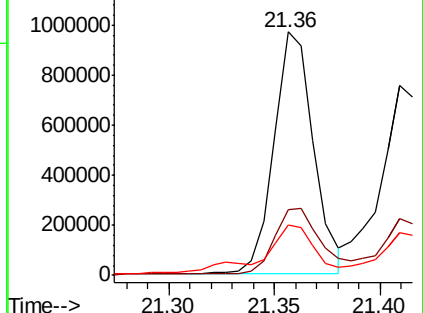
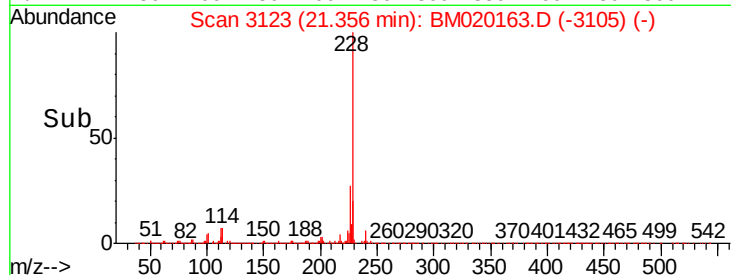
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.3	31.9
229	20.8	15.5	23.3



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: 18.164 ng

RT: 21.41 min Scan# 3132

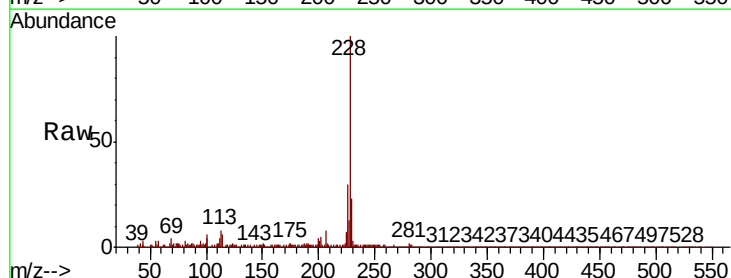
Delta R.T. 0.01 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Tgt Ion:228 Resp: 1073218

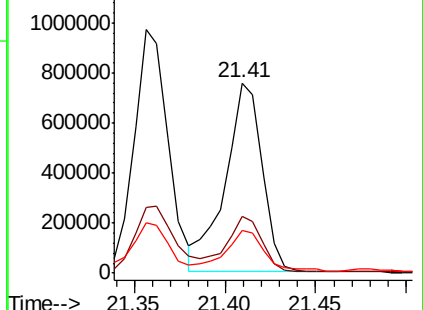
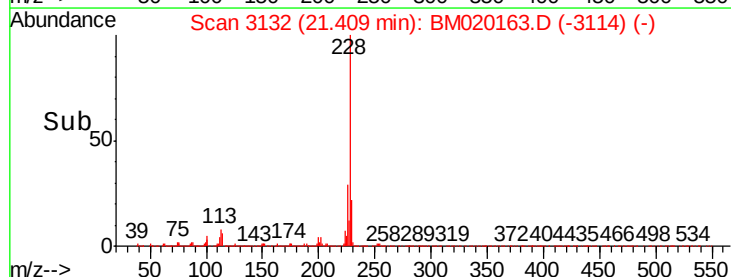
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.0	34.6
229	22.7	15.5	23.3

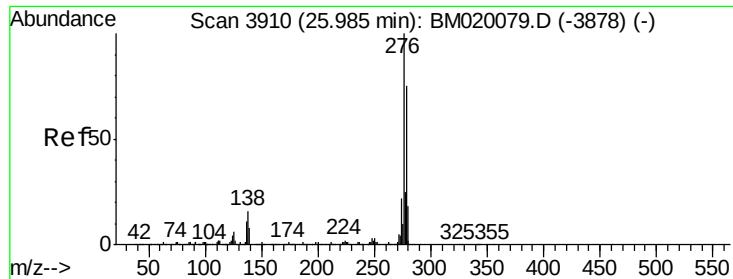


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

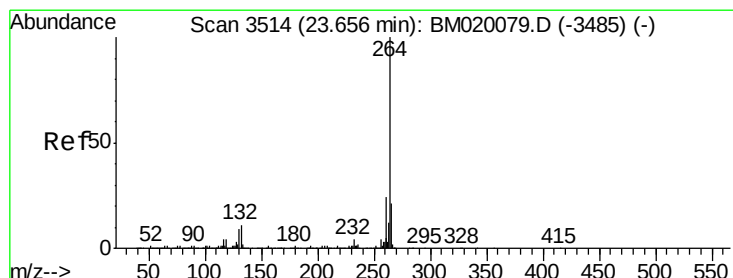
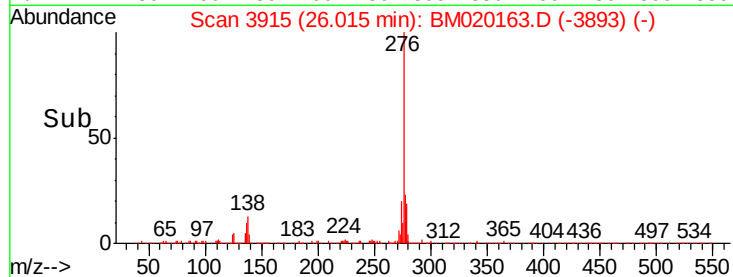
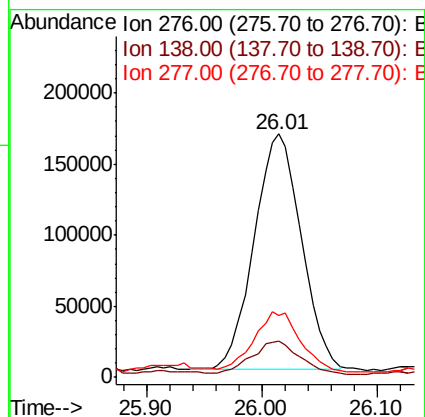
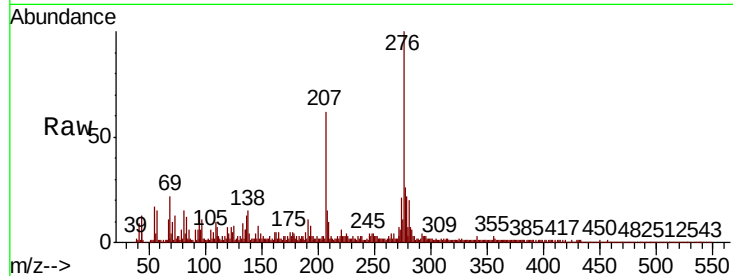




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.732 ng
 RT: 26.01 min Scan# 3915
 Delta R.T. 0.03 min
 Lab File: BM020163.D
 Acq: 07 May 2019 10:39

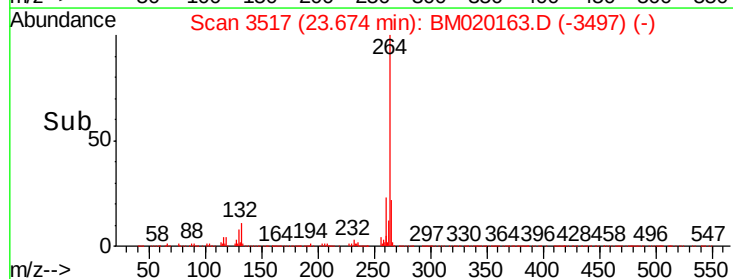
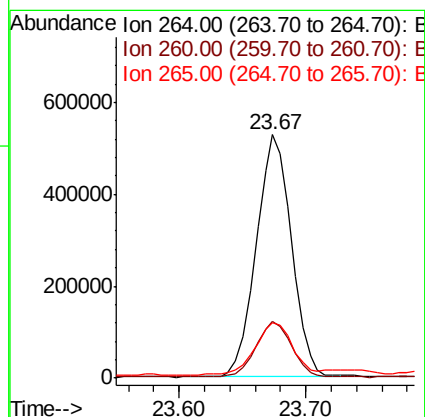
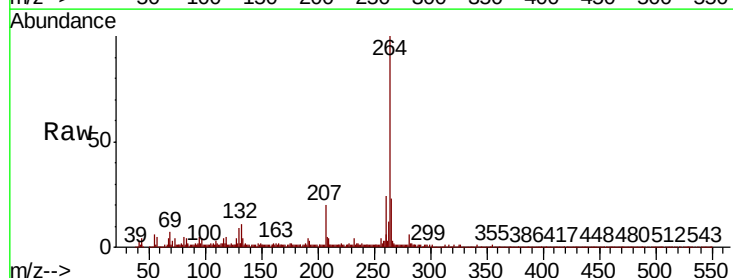
Instrument :
 BNA_M
 ClientSampleId :

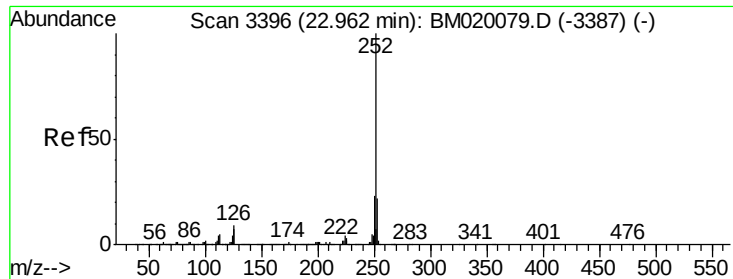
Tot Ion	Ratio	Lower	Upper
276	100		
138	13.7	0.0	0.0#
277	24.1	0.0	0.0#



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.67 min Scan# 3517
 Delta R.T. 0.02 min
 Lab File: BM020163.D
 Acq: 07 May 2019 10:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.9	16.9	25.3





#88

Benzo(b)fluoranthene

Concen: 17.907 ng

RT: 22.98 min Scan# 3399

Delta R.T. 0.02 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampleId :

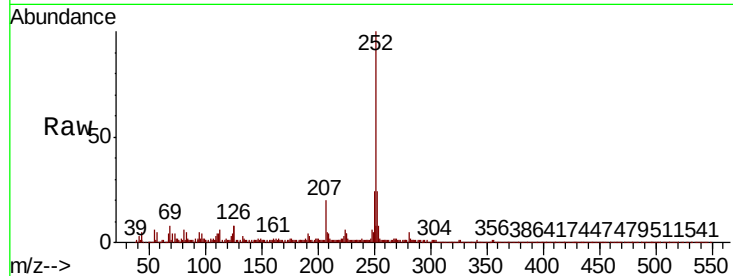
Tot Ion:252 Resp: 1200797

Ion Ratio Lower Upper

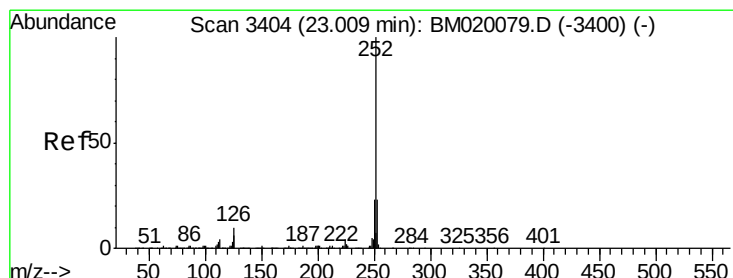
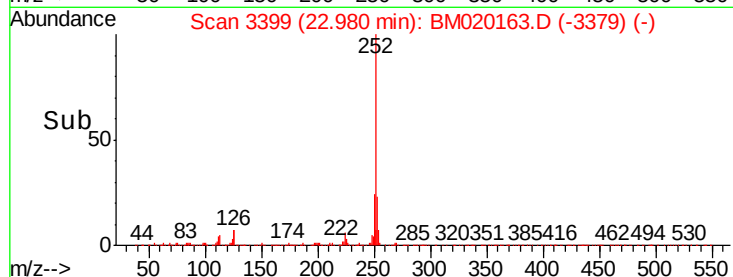
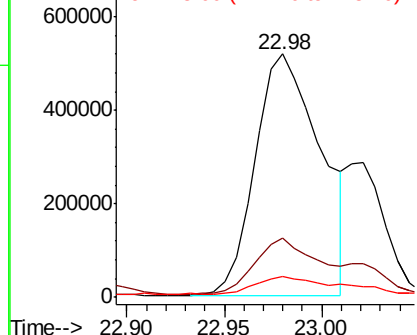
252 100

253 24.3 17.5 26.3

125 8.4 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: 19.494 ng

RT: 22.98 min Scan# 3399

Delta R.T. -0.03 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

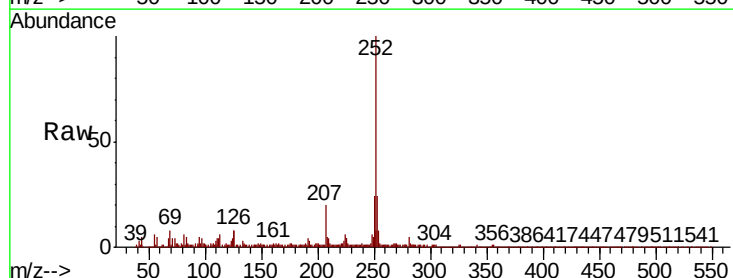
Tgt Ion:252 Resp: 1192407

Ion Ratio Lower Upper

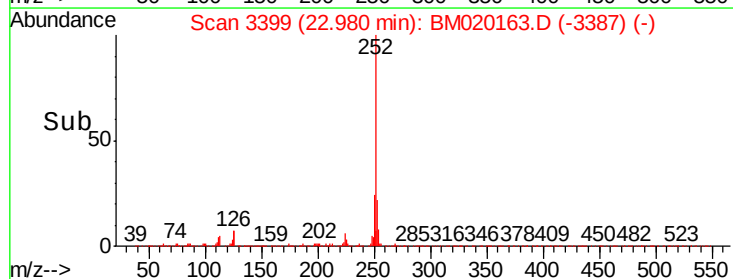
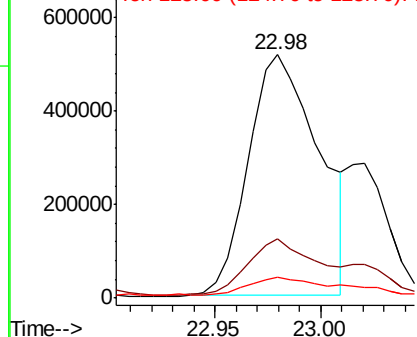
252 100

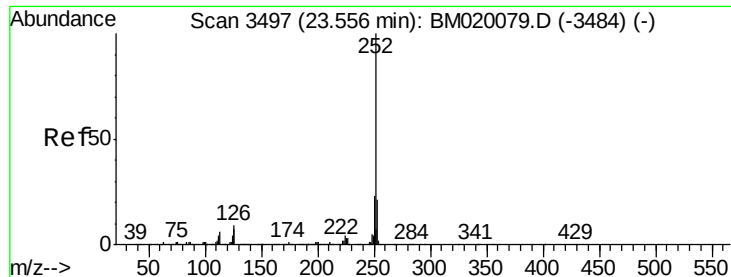
253 24.3 17.8 26.8

125 8.4 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: 13.197 ng

RT: 23.57 min Scan# 3500

Delta R.T. 0.02 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

Instrument :

BNA_M

ClientSampleId :

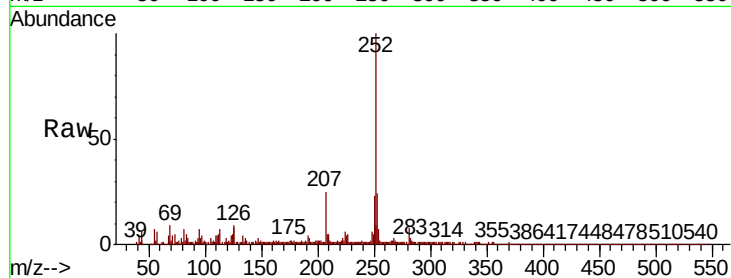
Tot Ion:252 Resp: 803836

Ion Ratio Lower Upper

252 100

253 23.6 17.0 25.6

125 8.0 5.5 8.3

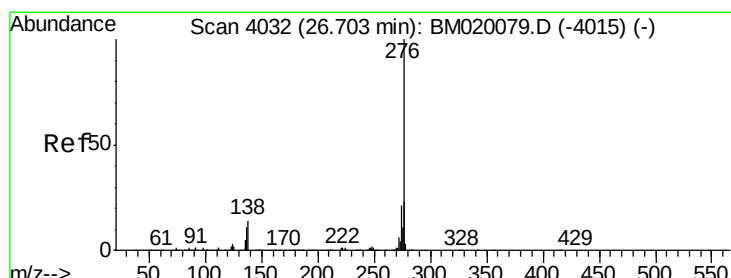
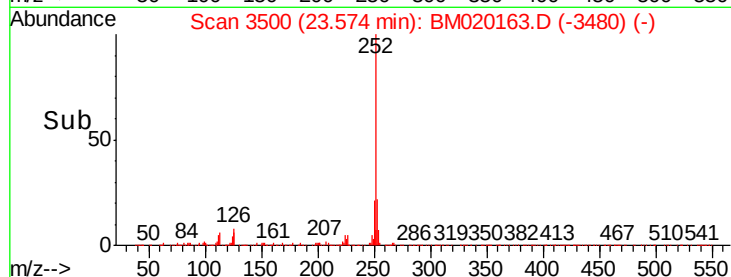
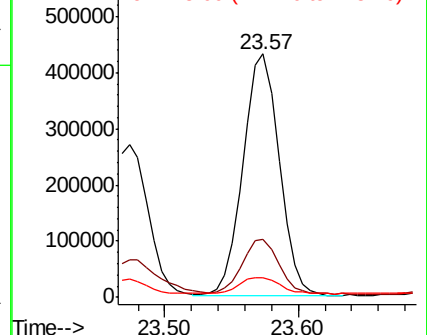


Abundance

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(g,h,i)perylene

Concen: 7.874 ng

RT: 26.74 min Scan# 4038

Delta R.T. 0.04 min

Lab File: BM020163.D

Acq: 07 May 2019 10:39

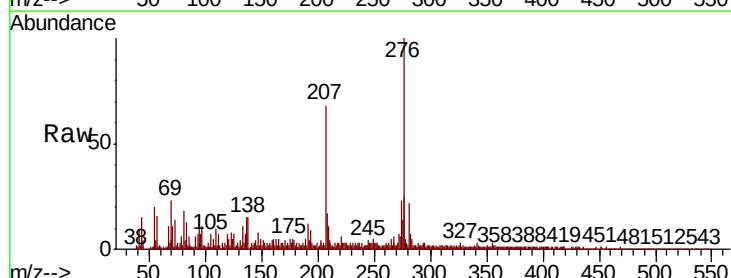
Tgt Ion:276 Resp: 473494

Ion Ratio Lower Upper

276 100

277 25.1 18.4 27.6

138 15.3 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

