

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
 Data File : BM022775.D
 Acq On : 25 Sep 2019 17:16
 Operator : JU
 Sample : K4997-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Sep 26 06:01:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM092019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 20 16:34:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	217837	20.00	ng	-0.01
21) Naphthalene-d8	10.61	136	822083	20.00	ng	-0.01
39) Acenaphthene-d10	14.45	164	472493	20.00	ng	-0.01
64) Phenanthrene-d10	17.19	188	937577	20.00	ng	0.00
76) Chrysene-d12	21.37	240	934188	20.00	ng	-0.01
87) Perylene-d12	23.64	264	1080092	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	1148582	83.62	ng	0.00
7) Phenol-d6	6.99	99	1552611	88.01	ng	0.00
23) Nitrobenzene-d5	8.97	82	883382	59.65	ng	-0.01
42) 2,4,6-Tribromophenol	15.94	330	553231	93.79	ng	0.00
45) 2-Fluorobiphenyl	13.07	172	2126540	61.98	ng	-0.01
79) Terphenyl-d14	19.82	244	2986829	61.91	ng	0.00

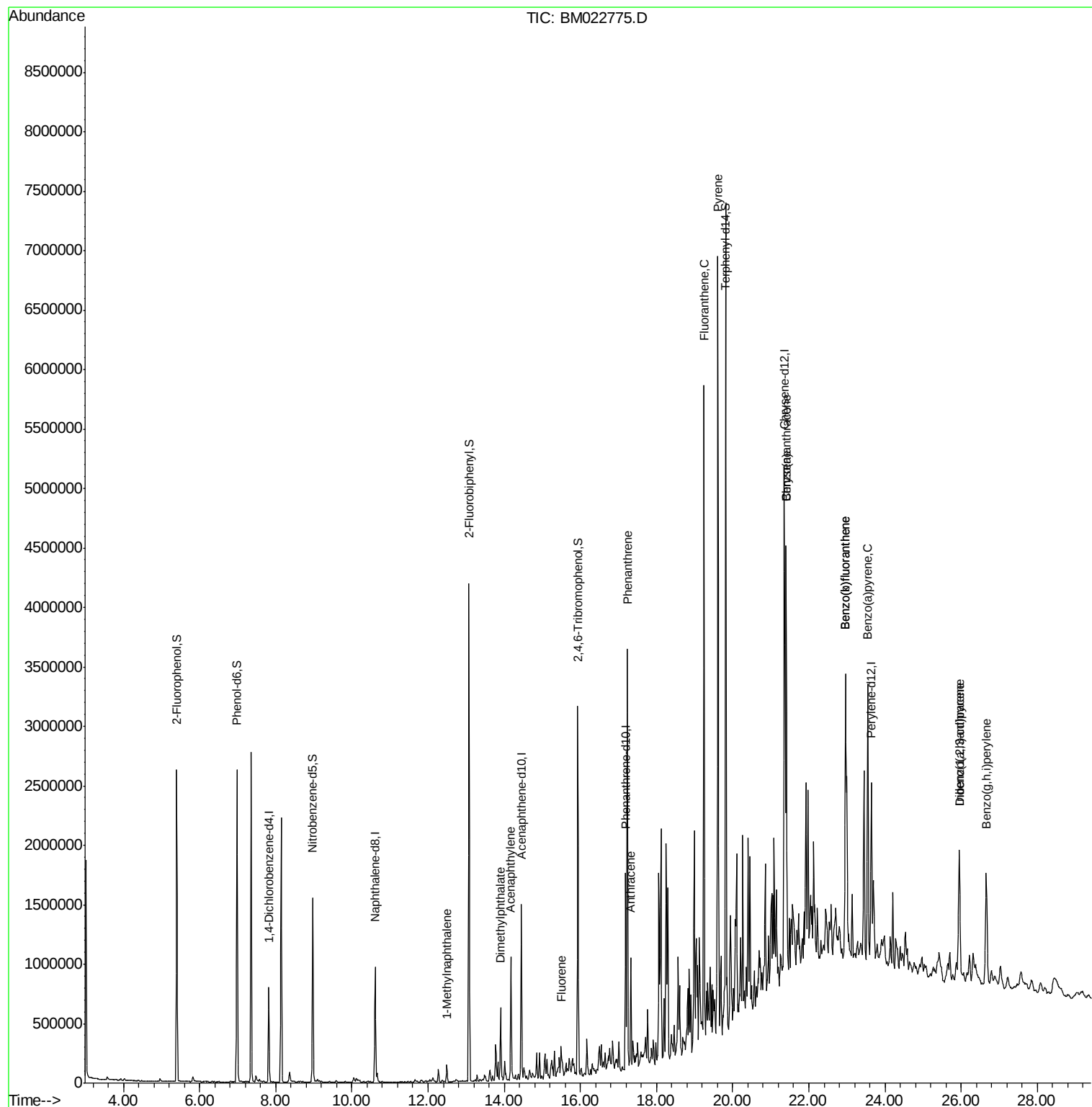
Target Compounds				Qvalue		
38) 1-Methylnaphthalene	12.49	142	67206	2.504	ng	98
49) Acenaphthylene	14.17	152	727755	16.861	ng	99
50) Dimethylphthalate	13.90	163	274289	8.033	ng	100
58) Fluorene	15.50	166	125126	3.735	ng	# 96
71) Phenanthrene	17.23	178	2091987	39.544	ng	100
72) Anthracene	17.32	178	589228	11.492	ng	99
75) Fluoranthene	19.25	202	2976239	49.855	ng	98
78) Pyrene	19.61	202	3941000	64.373	ng	99
81) Benzo(a)anthracene	21.40	228	1873067	30.936	ng	93
83) Chrysene	21.40	228	2040777	34.767	ng	97
86) Indeno(1,2,3-cd)pyrene	25.95	276	1051352	15.007	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	2557105	39.102	ng	98
89) Benzo(k)fluoranthene	22.96	252	2548615	39.277	ng	99
90) Benzo(a)pyrene	23.54	252	1589754	26.382	ng	98
91) Dibenzo(a,h)anthracene	25.96	278	283003	4.490	ng	# 88
92) Benzo(g,h,i)perylene	26.66	276	1163985	19.442	ng	99

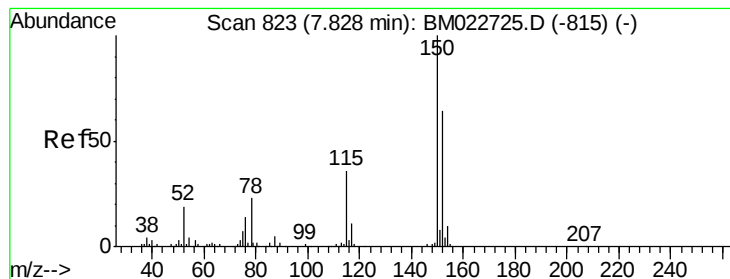
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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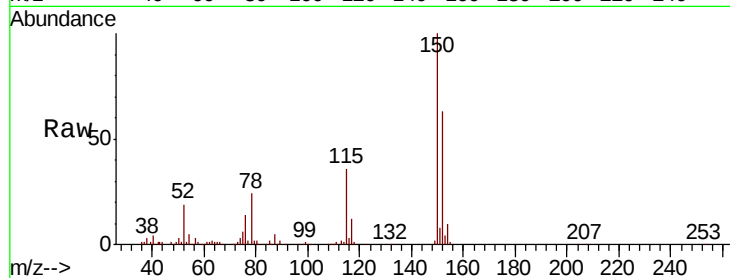


#1

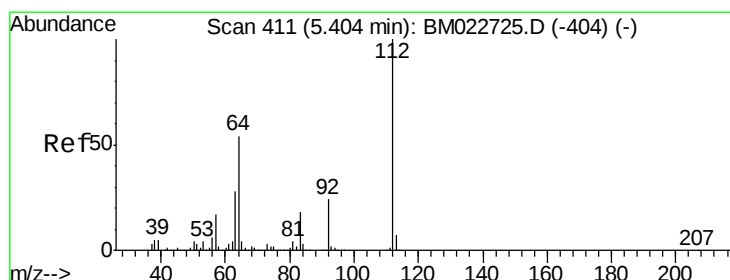
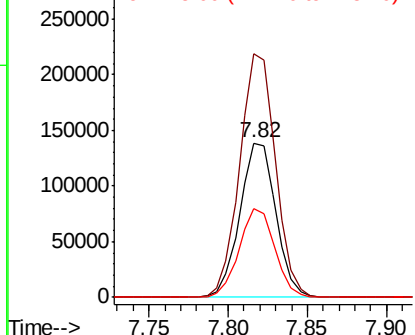
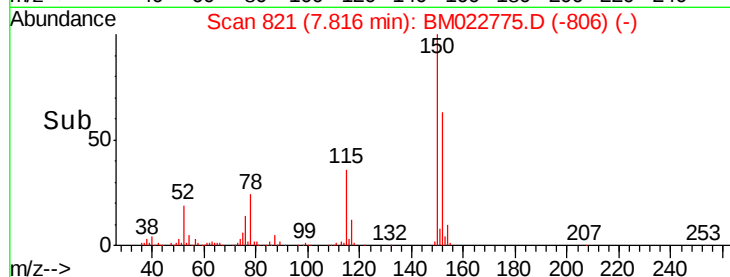
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.82 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.1	124.5	186.7
115	57.4	45.0	67.4



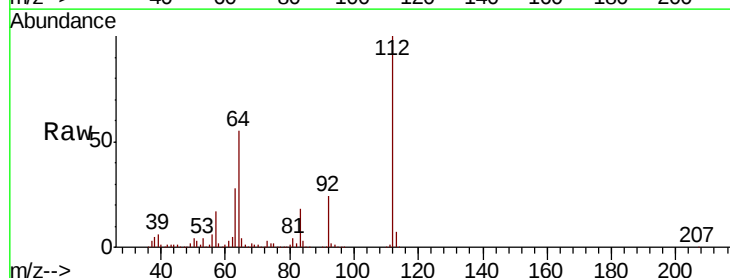
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



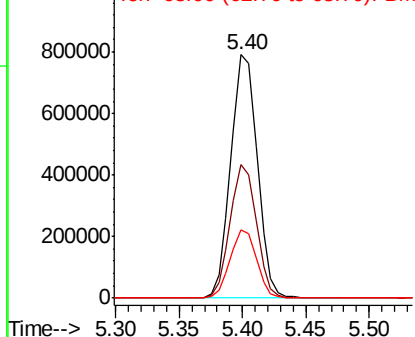
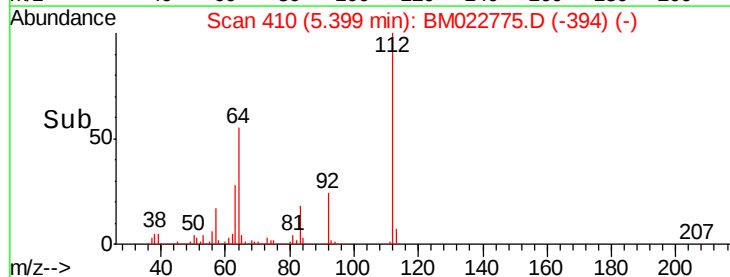
#5

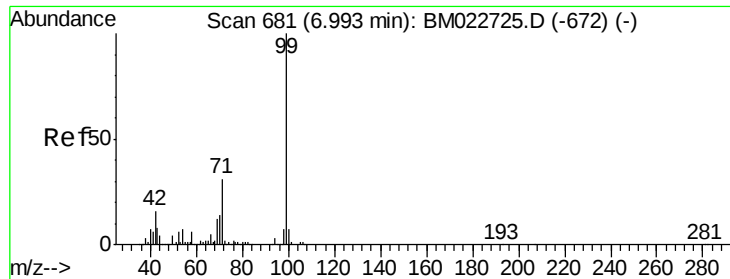
2-Fluorophenol
 Concen: 83.623 ng
 RT: 5.40 min Scan# 410
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	43.4	65.2
63	28.1	22.1	33.1



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: 88.009 ng

RT: 6.99 min Scan# 680

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Instrument :

BNA_M

ClientSampleId :

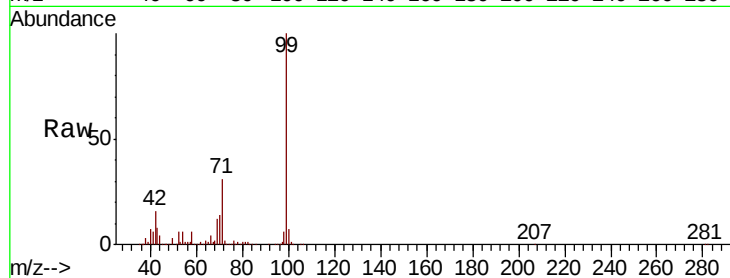
Tot Ion: 99 Resp: 1552611

Ion Ratio Lower Upper

99 100

42 16.0 13.0 19.4

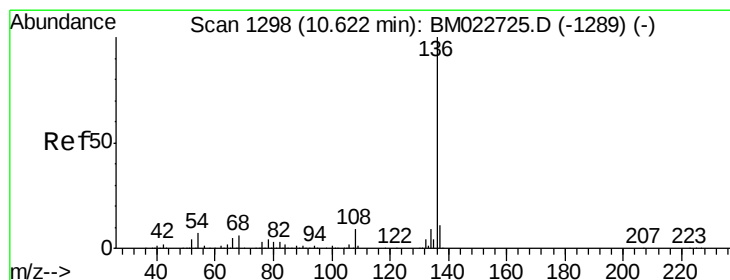
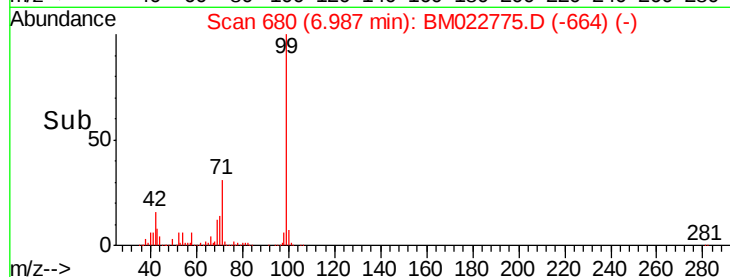
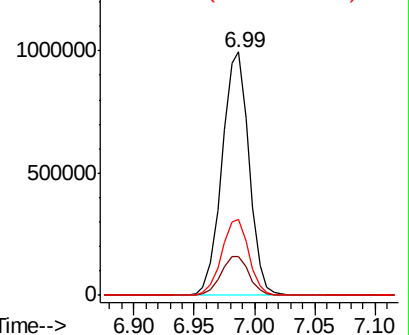
71 31.2 24.7 37.1



Abundance Ion 99.00 (98.70 to 99.70): BM022775.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM022775.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM022775.D (-664) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.61 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Tgt Ion: 136 Resp: 822083

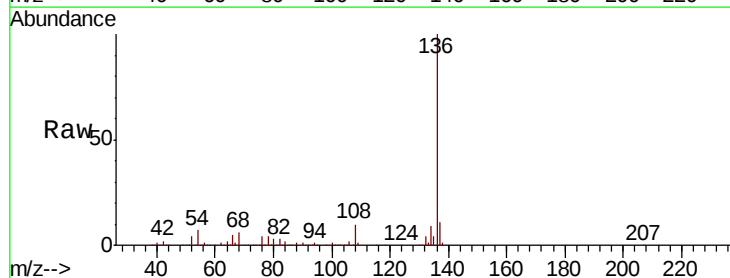
Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 7.4 6.0 9.0

68 5.8 4.9 7.3

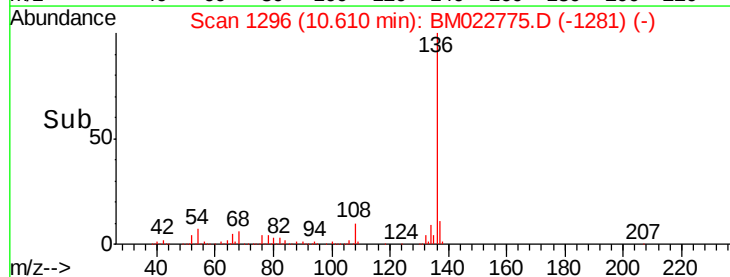
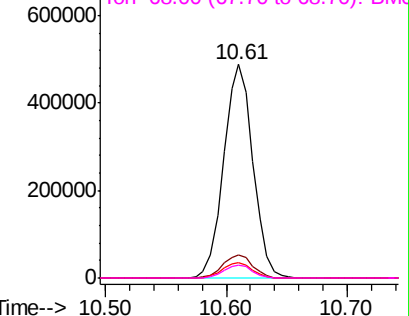


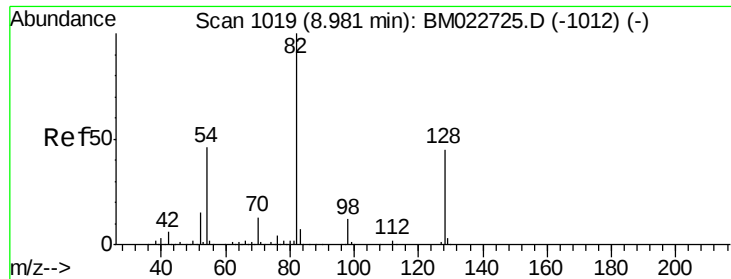
Abundance Ion 136.00 (135.70 to 136.70): BM022775.D (-1281) (-)

Ion 137.00 (136.70 to 137.70): BM022775.D (-1281) (-)

Ion 54.00 (53.70 to 54.70): BM022775.D (-1281) (-)

Ion 68.00 (67.70 to 68.70): BM022775.D (-1281) (-)

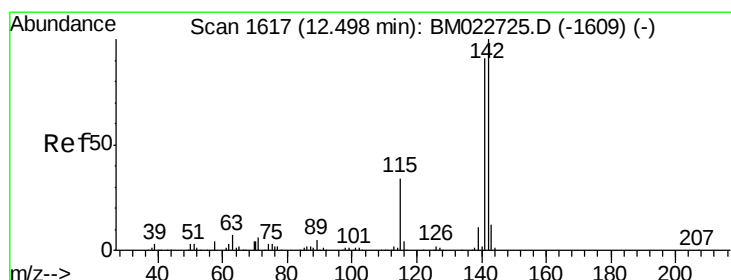
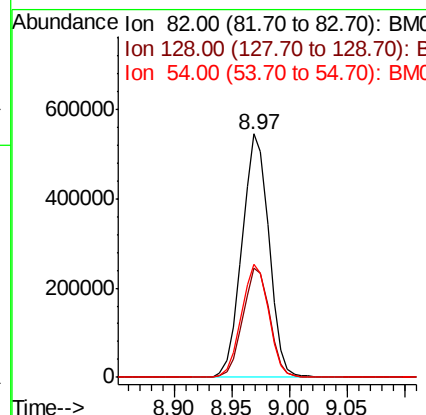
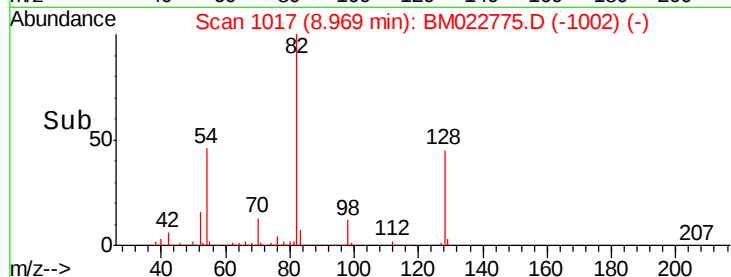
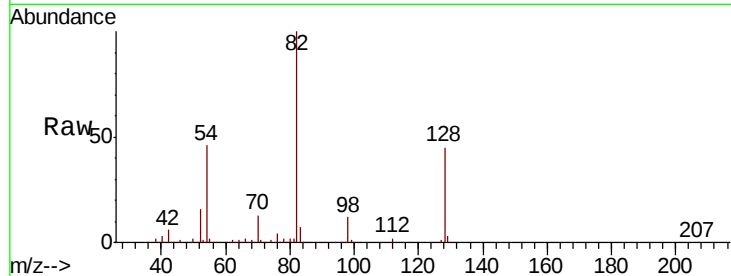




#23
 Nitrobenzene-d5
 Concen: 59.649 ng
 RT: 8.97 min Scan# 1017
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

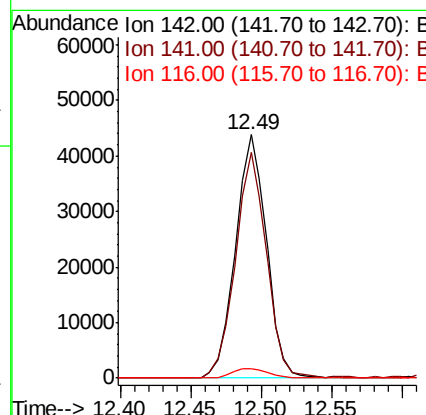
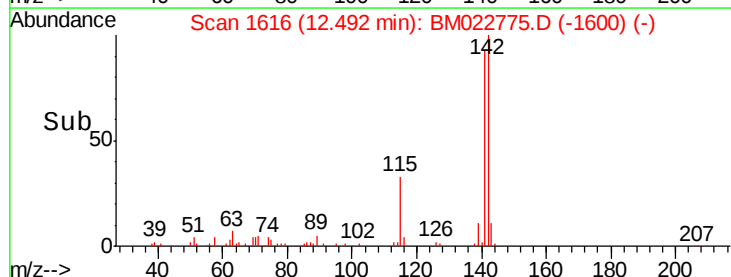
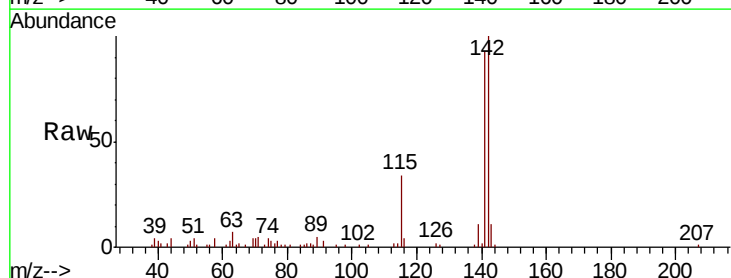
Instrument :
 BNA_M
 ClientSampleId :

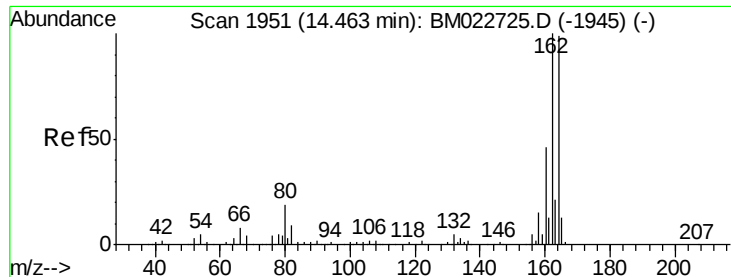
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.0	54.0
54	46.3	37.1	55.7



#38
 1-Methylnaphthalene
 Concen: 2.504 ng
 RT: 12.49 min Scan# 1616
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.9	73.0	109.4
116	4.1	2.9	4.3

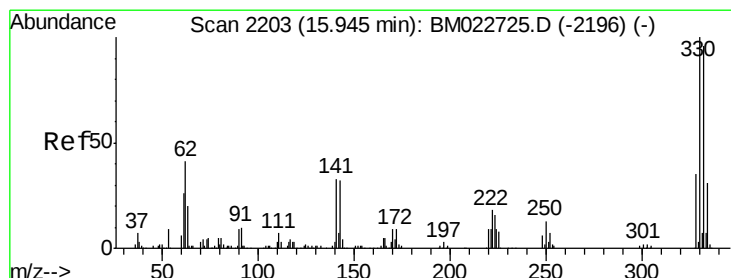
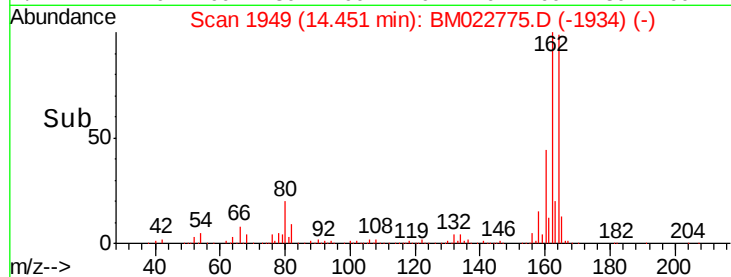
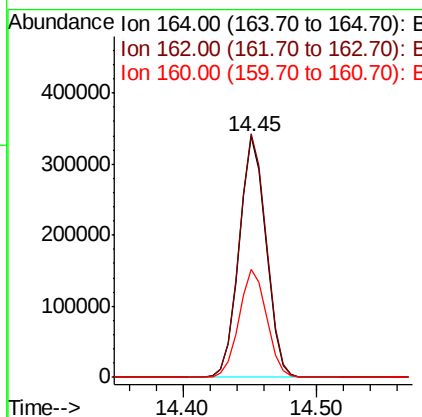
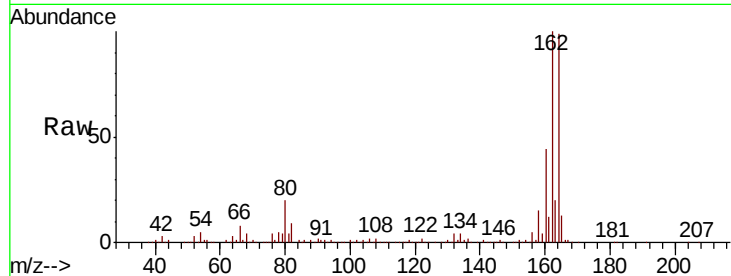




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.45 min Scan# 1949
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

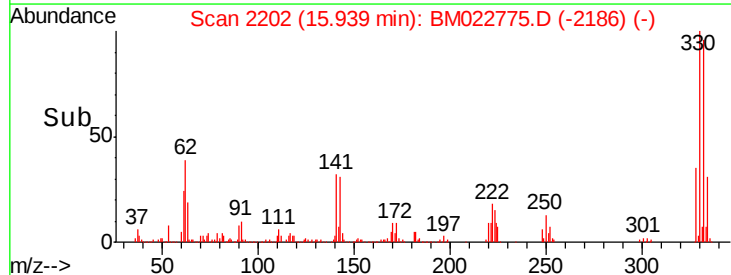
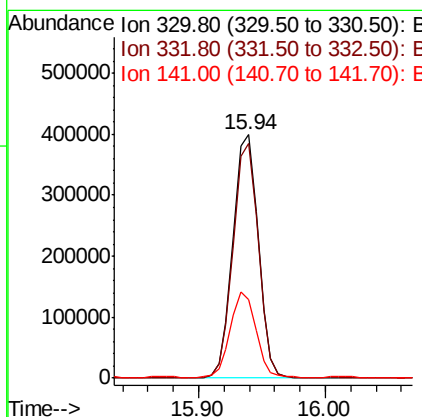
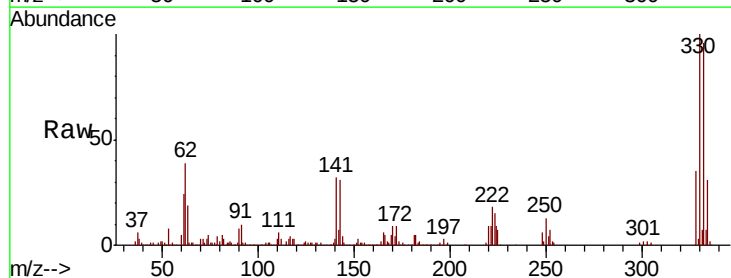
Instrument :
 BNA_M
 ClientSampleId :

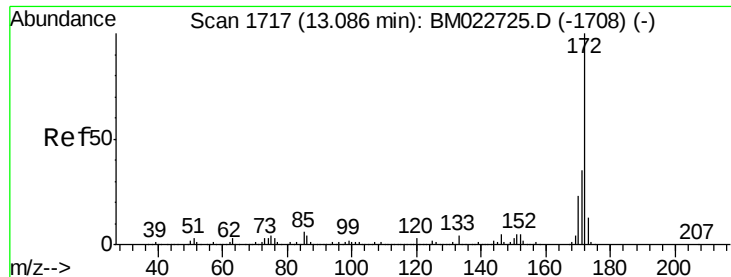
Tot Ion:164 Resp: 472493
 Ion Ratio Lower Upper
 164 100
 162 101.1 81.1 121.7
 160 44.9 36.9 55.3



#42
 2,4,6-Tribromophenol
 Concen: 93.795 ng
 RT: 15.94 min Scan# 2202
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion:330 Resp: 553231
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.9 115.3
 141 35.4 28.6 42.8

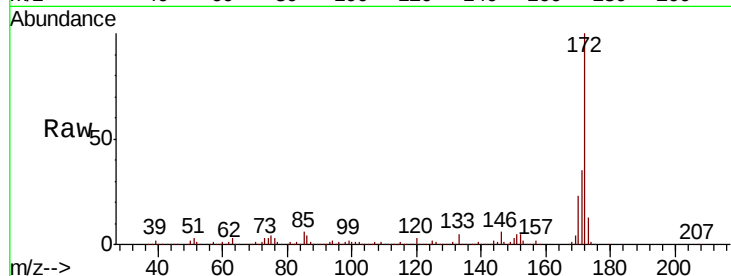




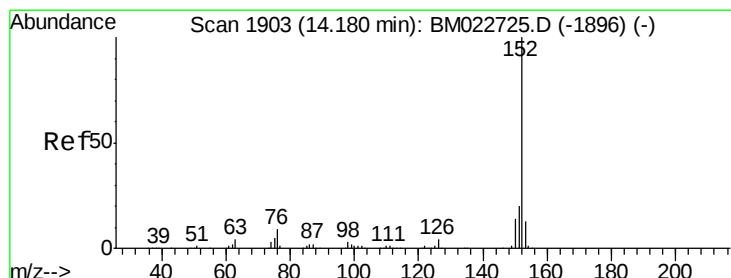
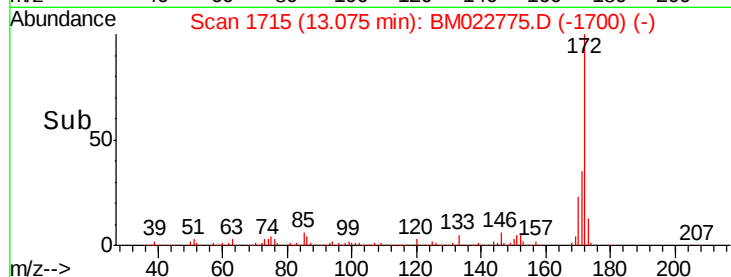
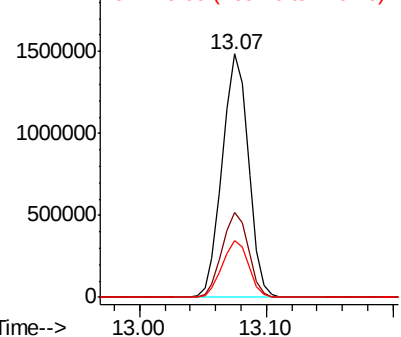
#45
2-Fluorobiphenyl
Concen: 61.976 ng
RT: 13.07 min Scan# 1715
Delta R.T. -0.01 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

Instrument :
BNA_M
ClientSampled :

Tot Ion:172 Resp: 2126540
Ion Ratio Lower Upper
172 100
171 35.0 27.8 41.8
170 23.1 18.7 28.1

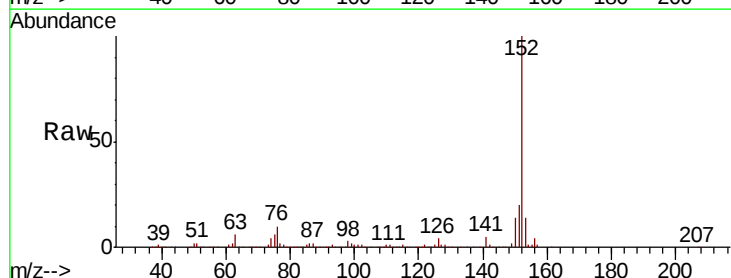


Abundance Ion 172.00 (171.70 to 172.70): E
2000000 Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

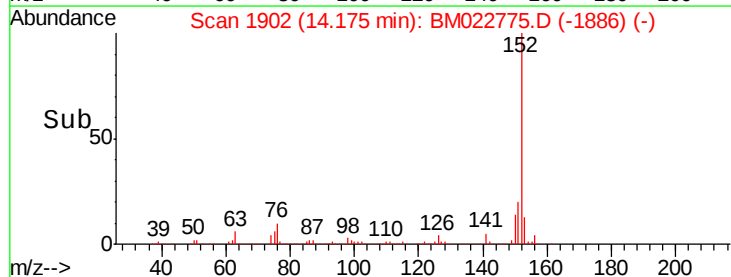
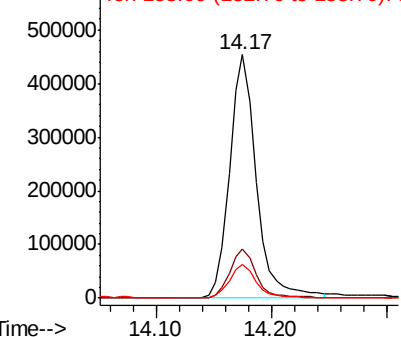


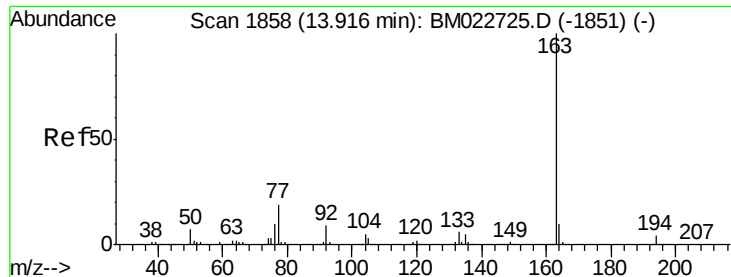
#49
Acenaphthylene
Concen: 16.861 ng
RT: 14.17 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

Tgt Ion:152 Resp: 727755
Ion Ratio Lower Upper
152 100
151 20.2 15.9 23.9
153 13.7 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
600000 Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 8.033 ng

RT: 13.90 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Instrument :

BNA_M

ClientSampleId :

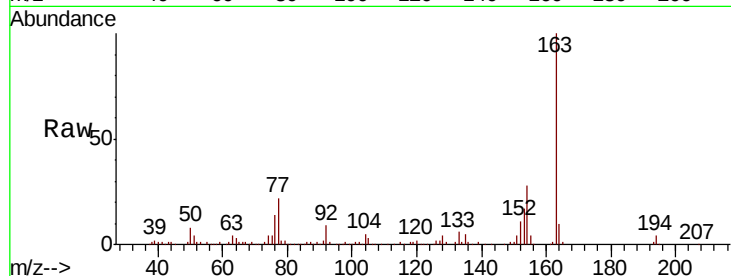
Tot Ion:163 Resp: 274289

Ion Ratio Lower Upper

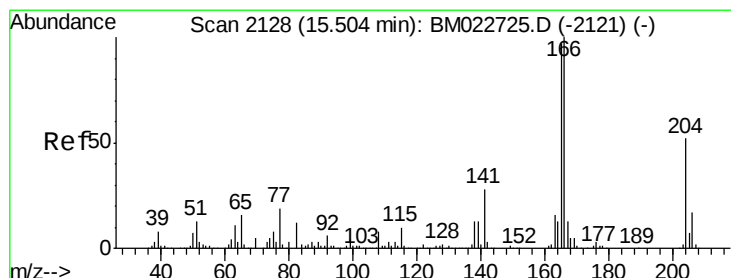
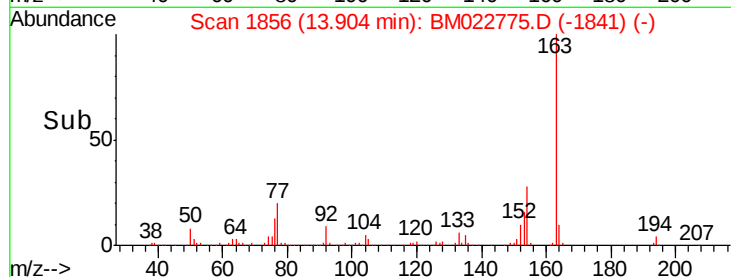
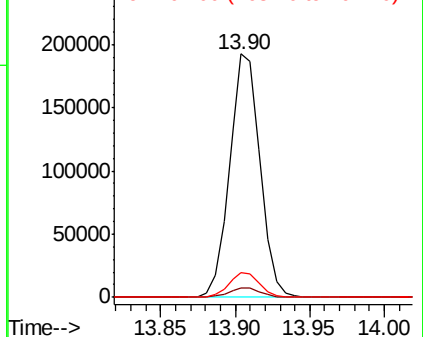
163 100

194 4.1 3.3 4.9

164 10.2 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#58

Fluorene

Concen: 3.735 ng

RT: 15.50 min Scan# 2127

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

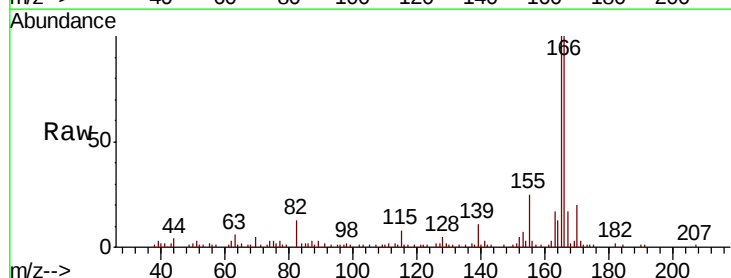
Tgt Ion:166 Resp: 125126

Ion Ratio Lower Upper

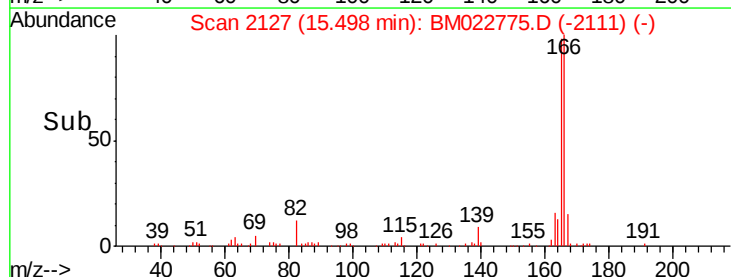
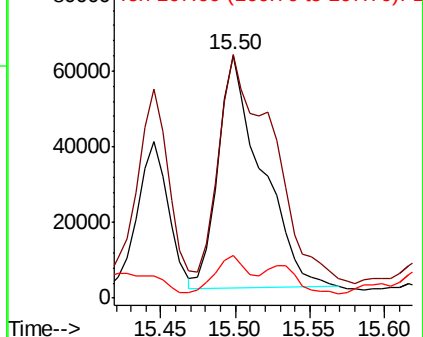
166 100

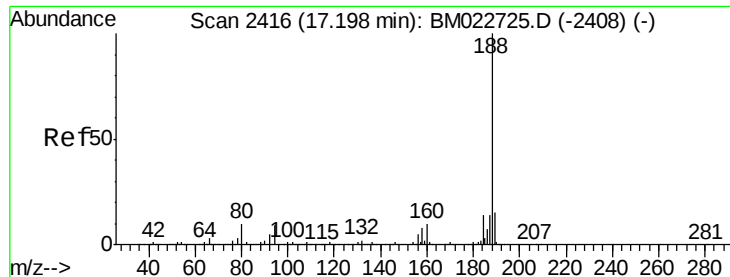
165 100.3 77.6 116.4

167 17.4 10.8 16.2#



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

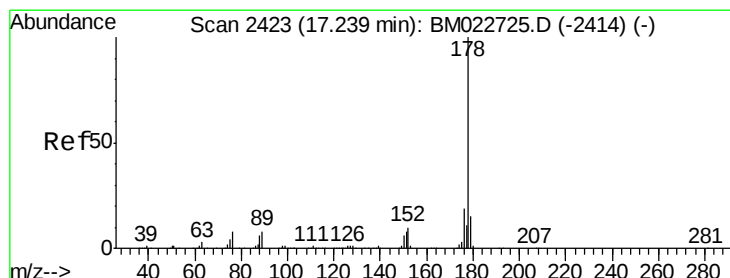
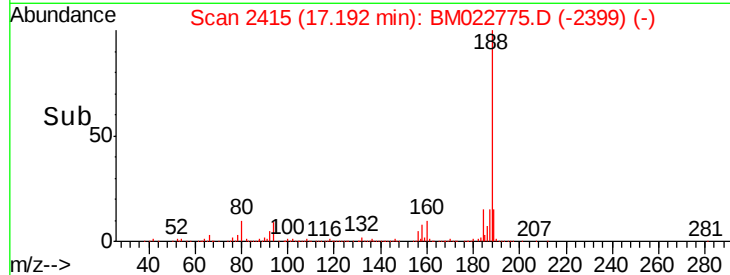
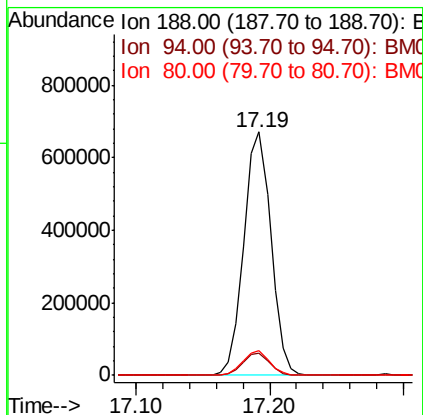
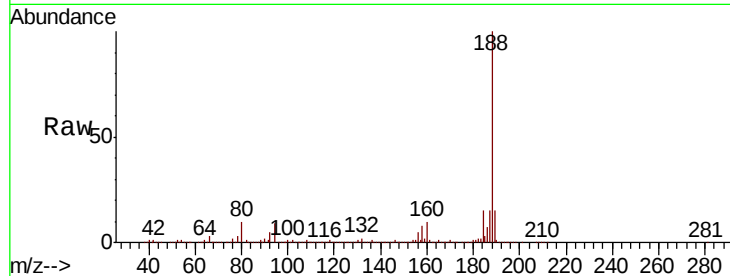




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.19 min Scan# 2415
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

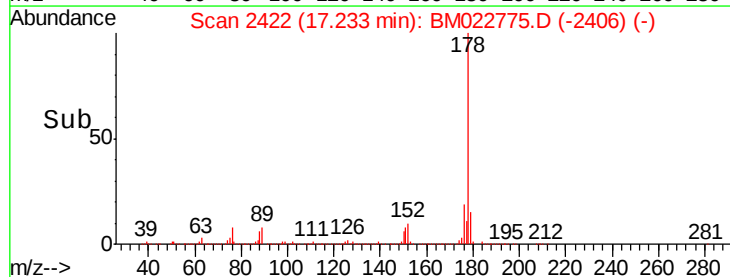
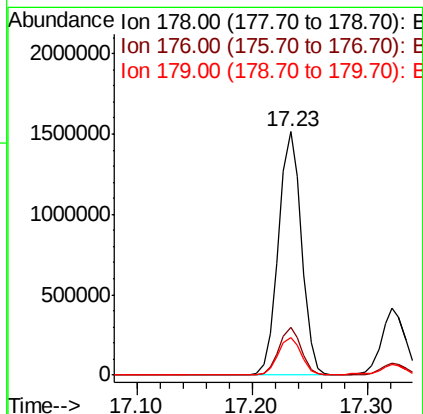
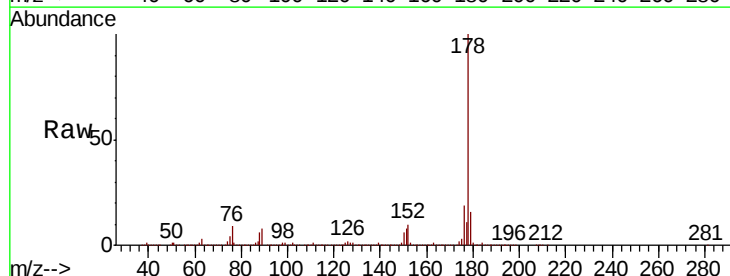
Instrument :
 BNA_M
 ClientSampleId :

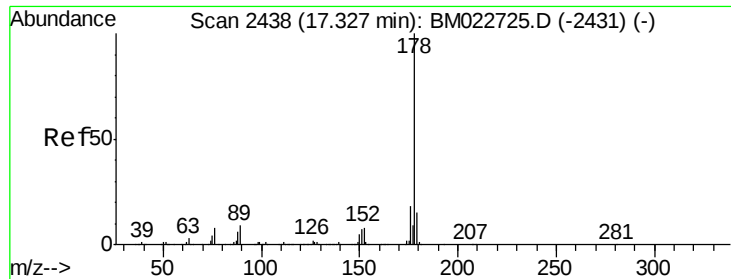
Tot Ion:188 Resp: 937577
 Ion Ratio Lower Upper
 188 100
 94 9.0 7.3 10.9
 80 9.9 7.8 11.8



#71
 Phenanthrene
 Concen: 39.544 ng
 RT: 17.23 min Scan# 2422
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion:178 Resp: 2091987
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.4 23.2
 179 15.6 12.3 18.5





#72

Anthracene

Concen: 11.492 ng

RT: 17.32 min Scan# 2437

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Instrument :

BNA_M

ClientSampleId :

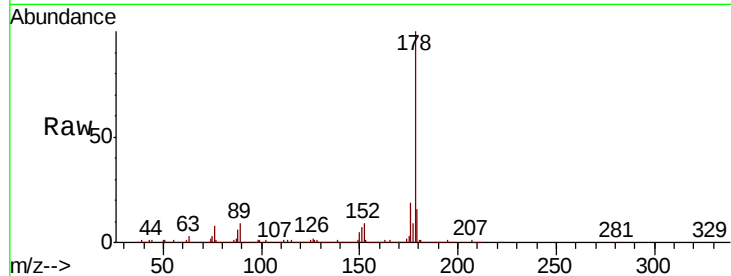
Tot Ion:178 Resp: 589228

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

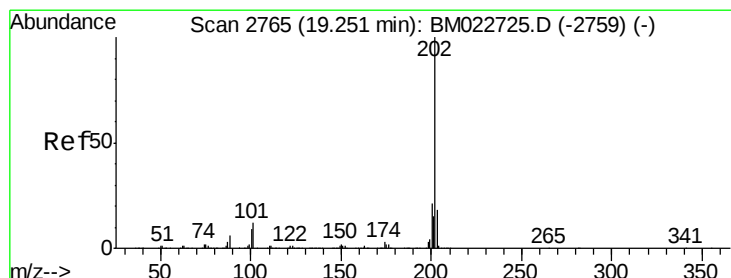
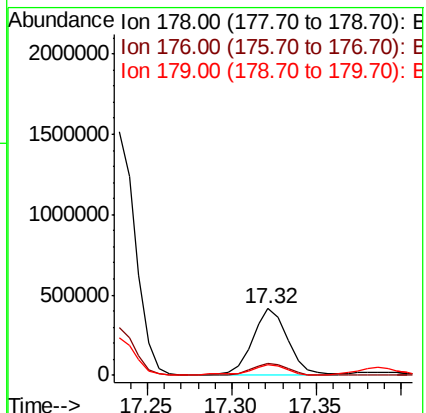
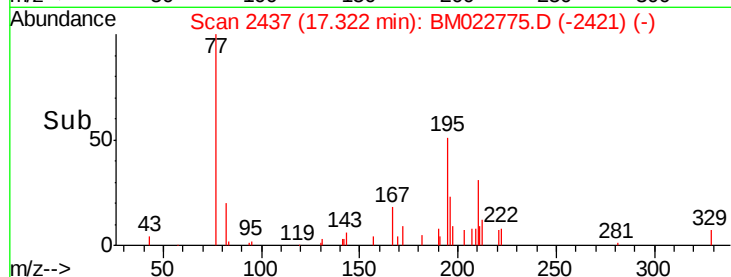
179 15.9 12.2 18.4



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: 49.855 ng

RT: 19.25 min Scan# 2765

Delta R.T. 0.00 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

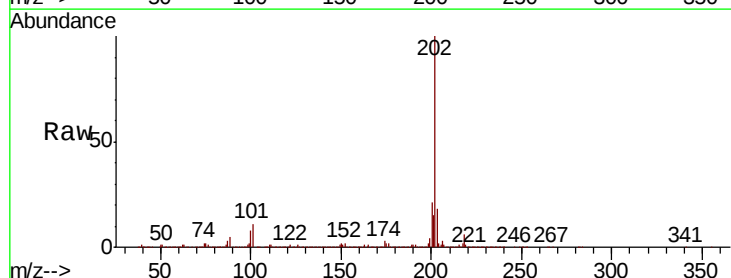
Tgt Ion:202 Resp: 2976239

Ion Ratio Lower Upper

202 100

101 10.8 0.0 32.1

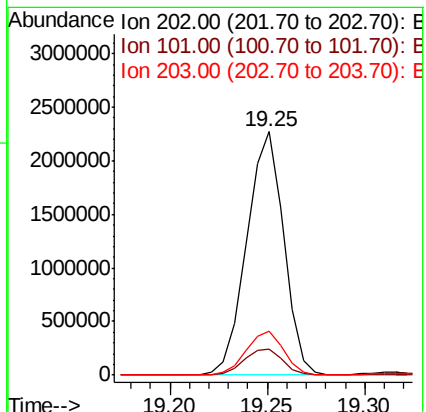
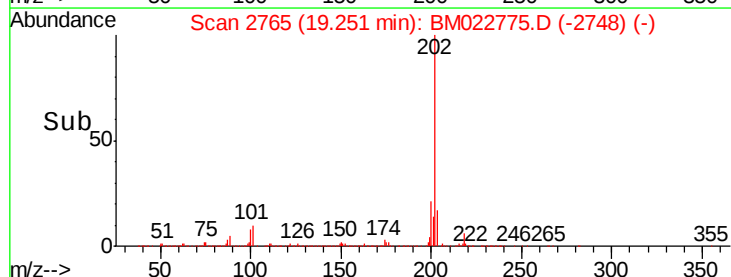
203 18.2 0.0 37.7

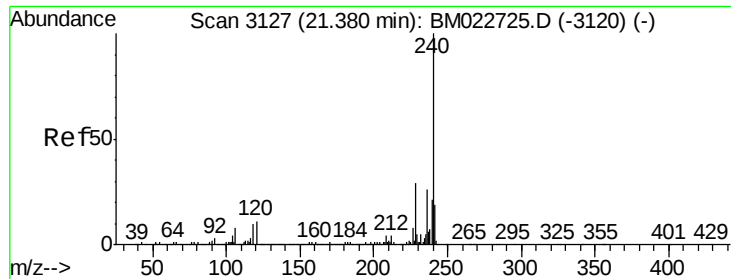


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3125

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Instrument :

BNA_M

ClientSampleId :

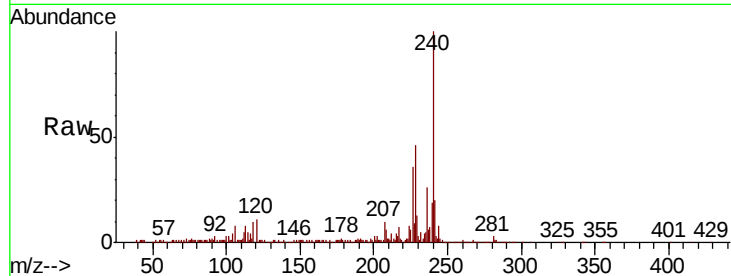
Tot Ion:240 Resp: 934188

Ion Ratio Lower Upper

240 100

120 11.3 8.8 13.2

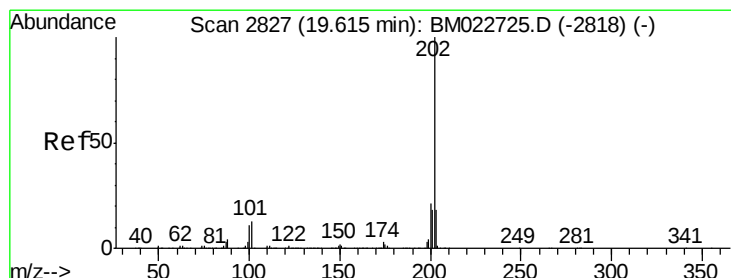
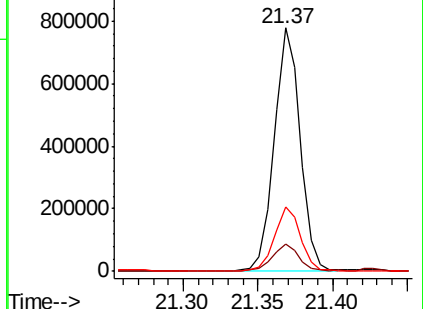
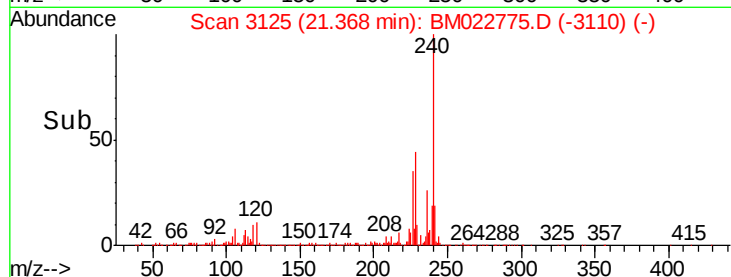
236 26.2 20.8 31.2



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

Pyrene

Concen: 64.373 ng

RT: 19.61 min Scan# 2826

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

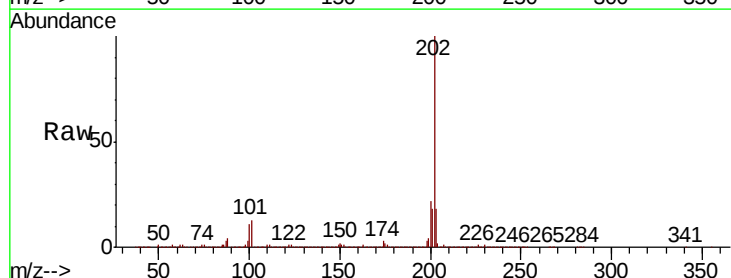
Tgt Ion:202 Resp: 3941000

Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

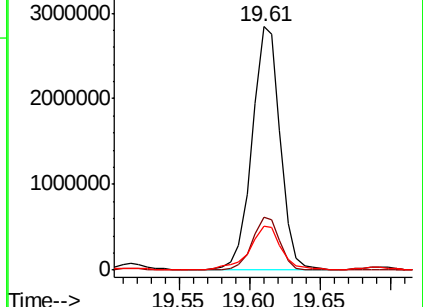
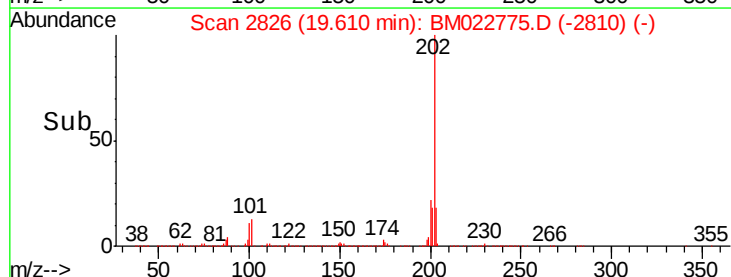
203 18.1 14.1 21.1

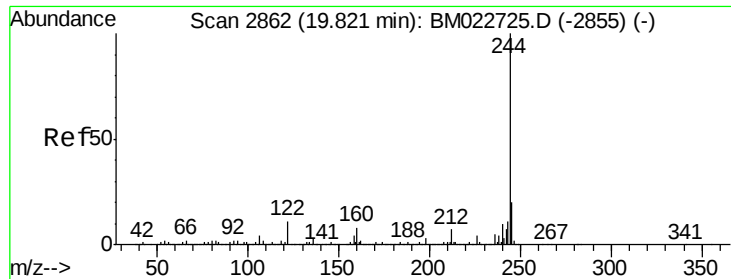


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

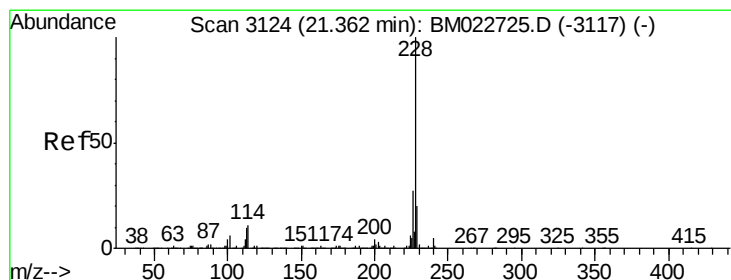
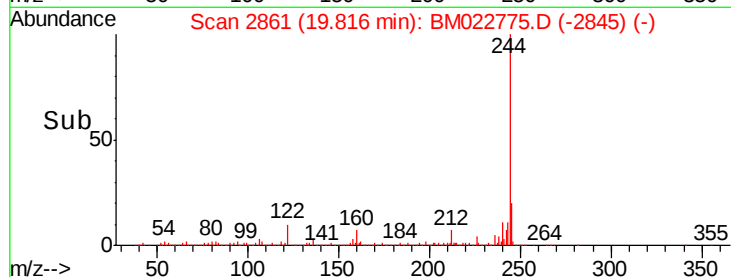
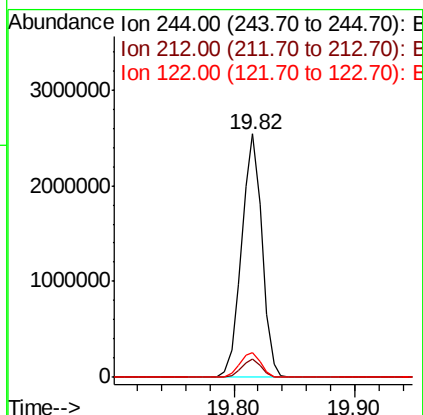
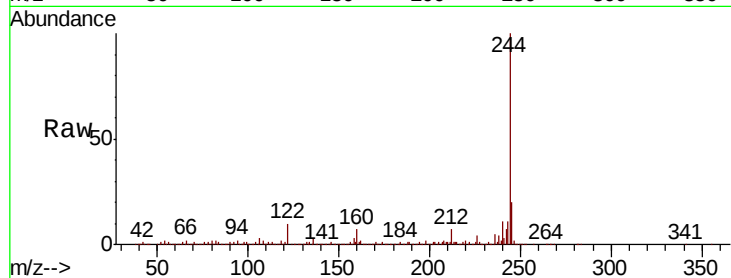




#79
 Terphenyl-d14
 Concen: 61.911 ng
 RT: 19.82 min Scan# 2861
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

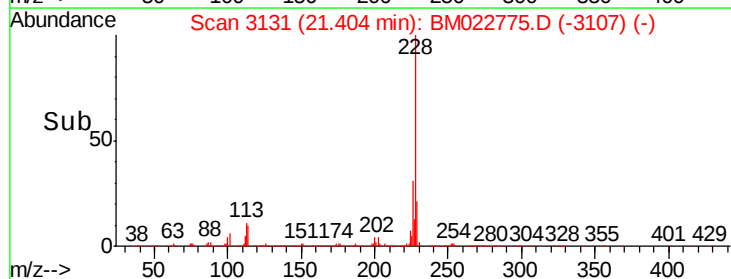
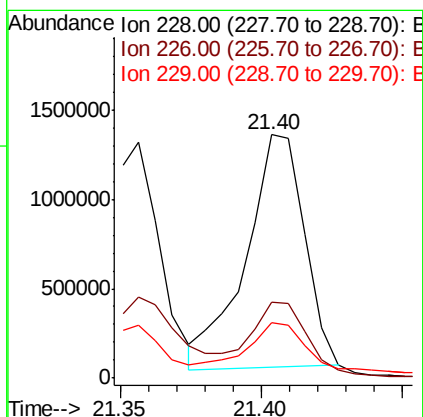
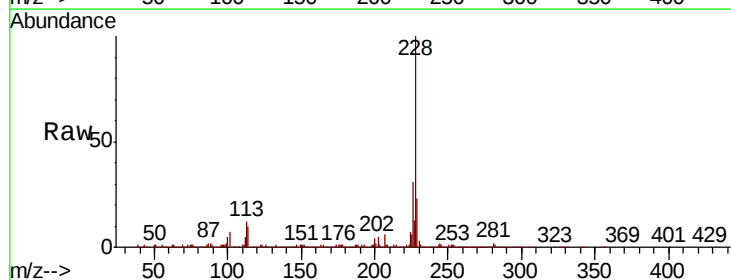
Instrument :
 BNA_M
 ClientSampleId :

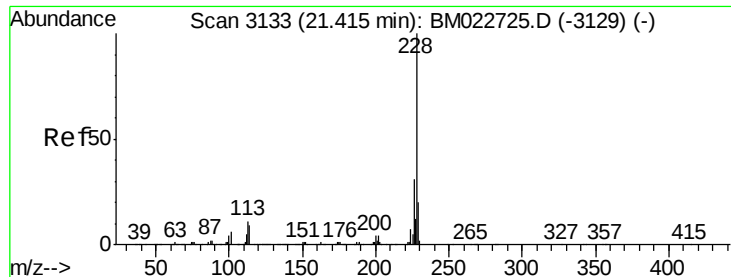
Tot Ion:244 Resp: 2986829
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.9 8.9
 122 10.4 9.0 13.4



#81
 Benzo(a)anthracene
 Concen: 30.936 ng
 RT: 21.40 min Scan# 3131
 Delta R.T. 0.04 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion:228 Resp: 1873067
 Ion Ratio Lower Upper
 228 100
 226 31.2 22.0 33.0
 229 22.5 15.9 23.9





#83

Chrysene

Concen: 34.767 ng

RT: 21.40 min Scan# 3131

Delta R.T. -0.01 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

Instrument :

BNA_M

ClientSampleId :

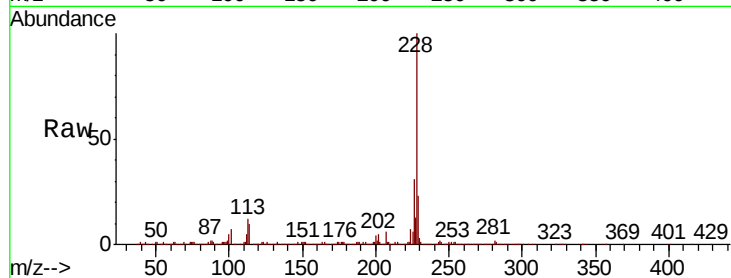
Tot Ion:228 Resp: 2040777

Ion Ratio Lower Upper

228 100

226 31.2 24.5 36.7

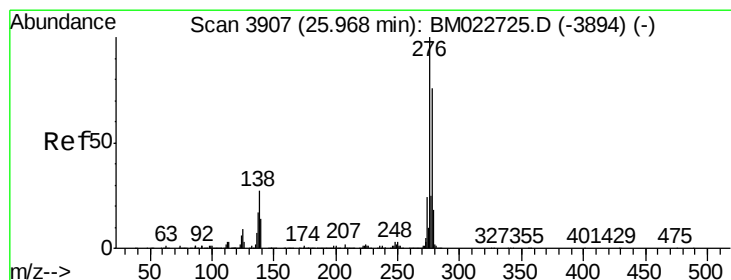
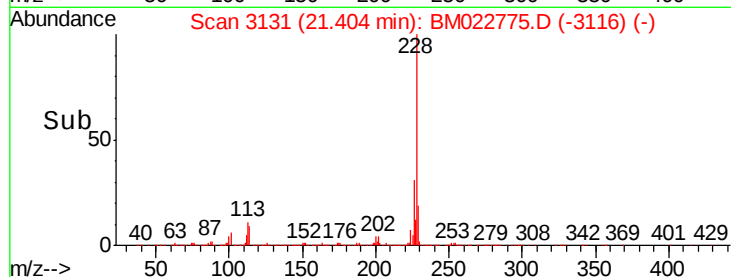
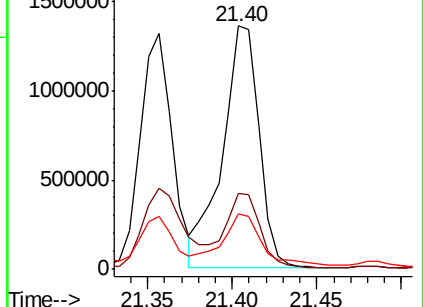
229 22.5 15.9 23.9



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: 15.007 ng

RT: 25.95 min Scan# 3904

Delta R.T. -0.02 min

Lab File: BM022775.D

Acq: 25 Sep 2019 17:16

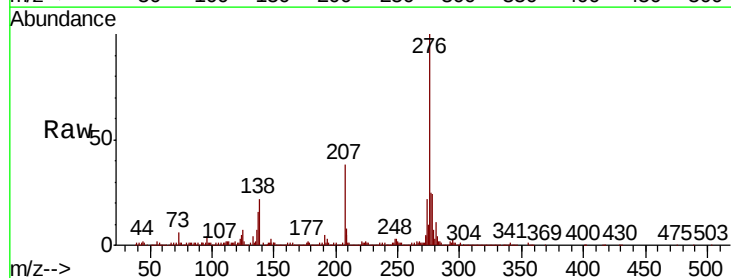
Tgt Ion:276 Resp: 1051352

Ion Ratio Lower Upper

276 100

138 21.7 0.0 0.0#

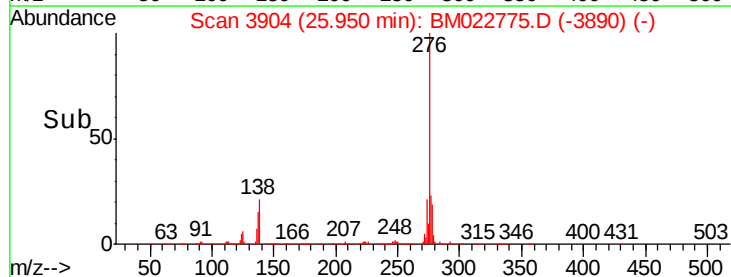
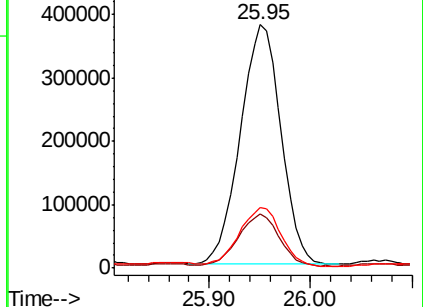
277 25.1 0.0 0.0#

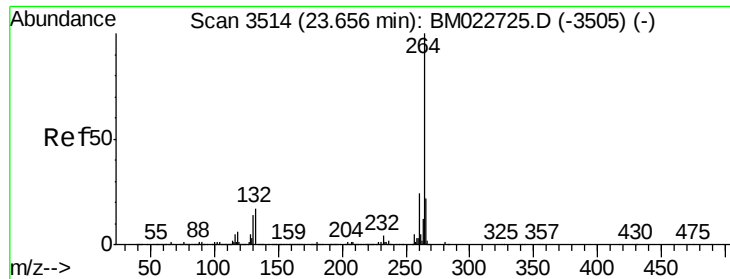


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

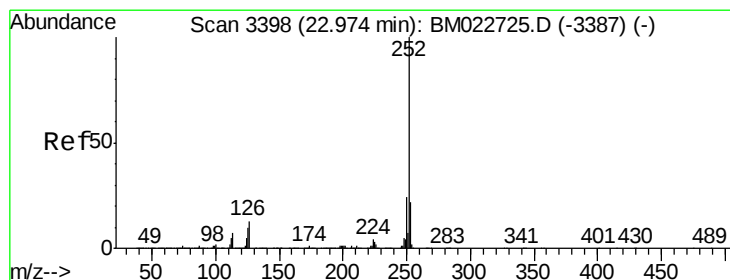
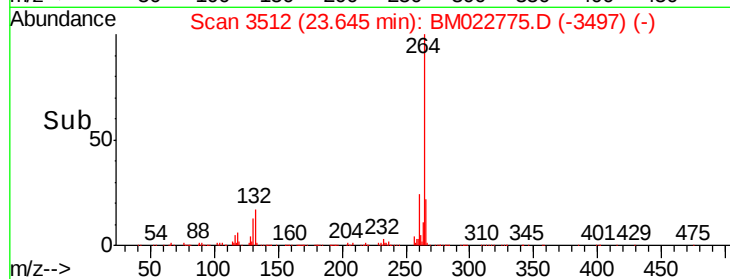
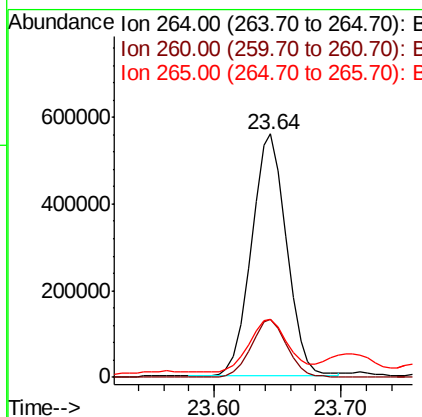
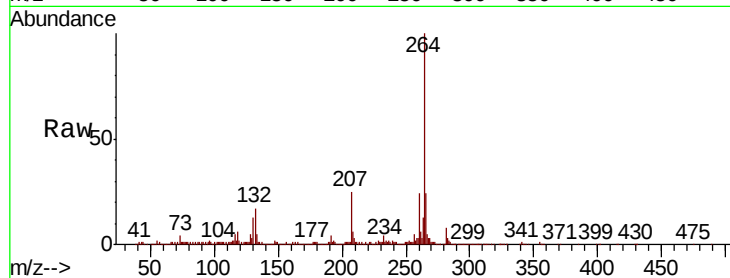




#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 23.64 min Scan# 3512
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

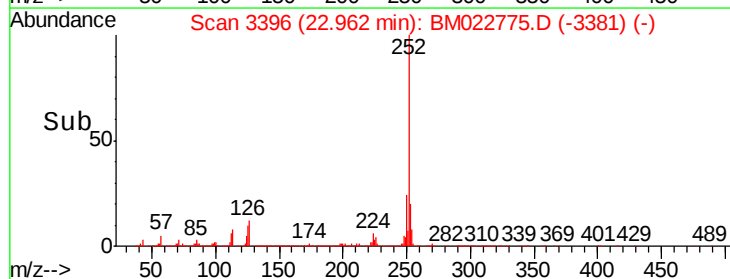
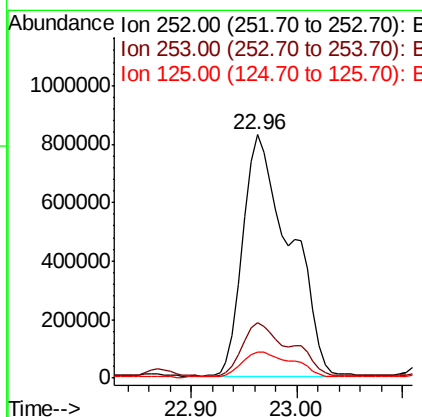
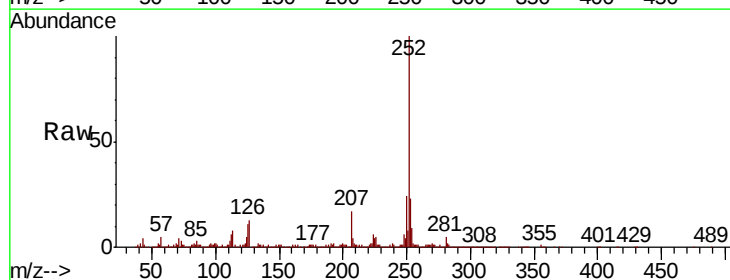
Instrument :
 BNA_M
 ClientSampleId :

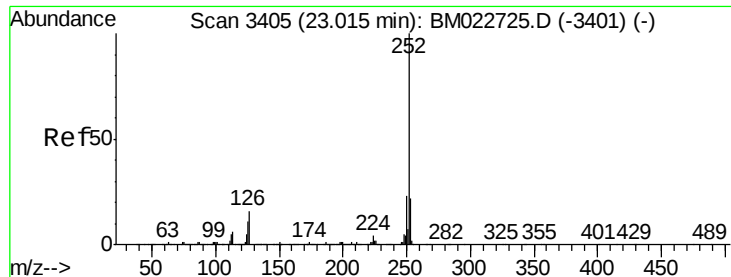
Tot Ion:264 Resp: 1080092
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.1 28.7
 265 23.9 17.9 26.9



#88
 Benzo(b)fluoranthene
 Concen: 39.102 ng
 RT: 22.96 min Scan# 3396
 Delta R.T. -0.01 min
 Lab File: BM022775.D
 Acq: 25 Sep 2019 17:16

Tgt Ion:252 Resp: 2557105
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.7 26.5
 125 10.8 8.2 12.4

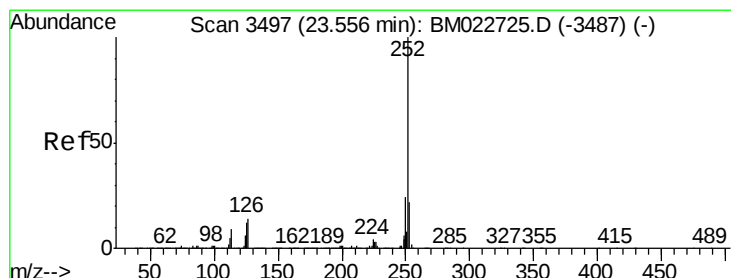
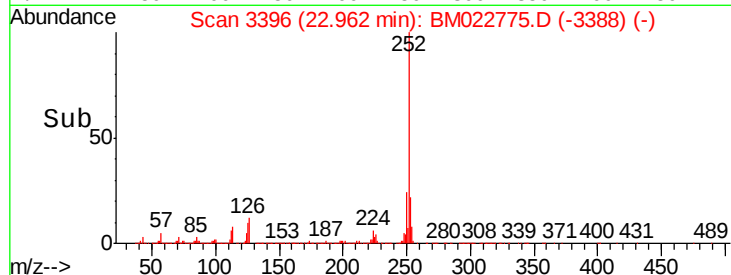
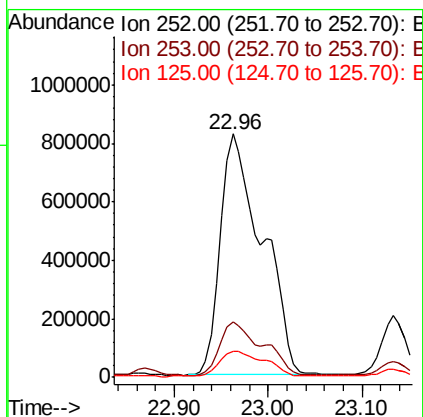
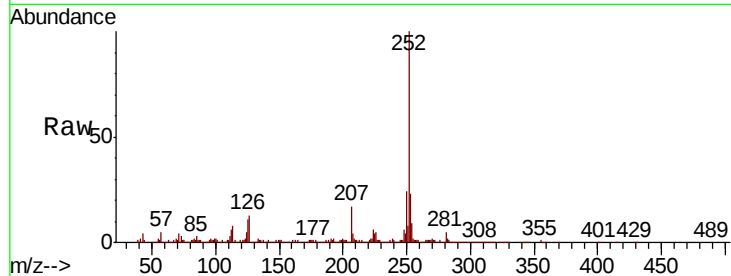




#89
Benzo(k)fluoranthene
Concen: 39.277 ng
RT: 22.96 min Scan# 3396
Delta R.T. -0.05 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

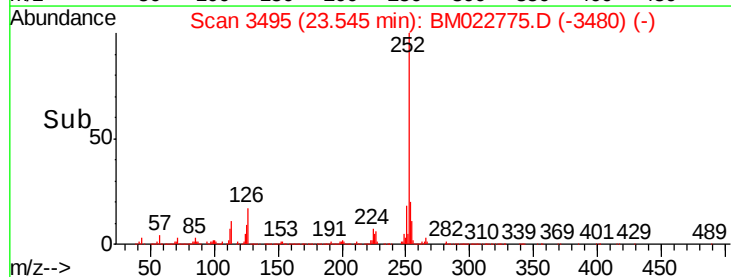
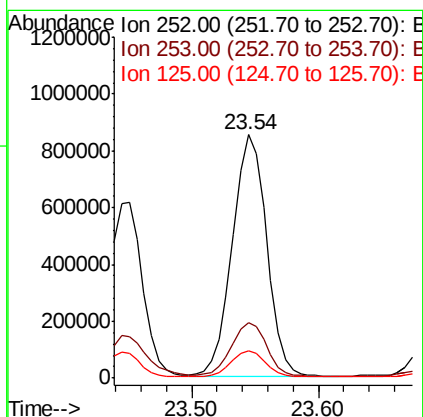
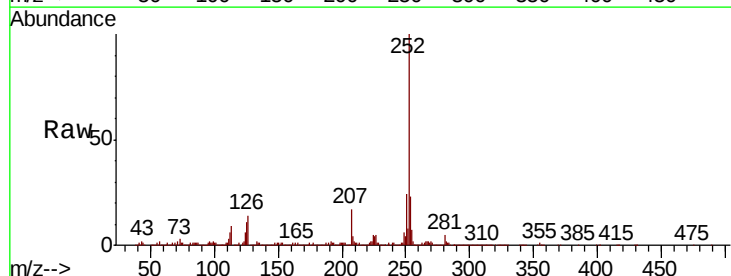
Instrument :
BNA_M
ClientSampled :

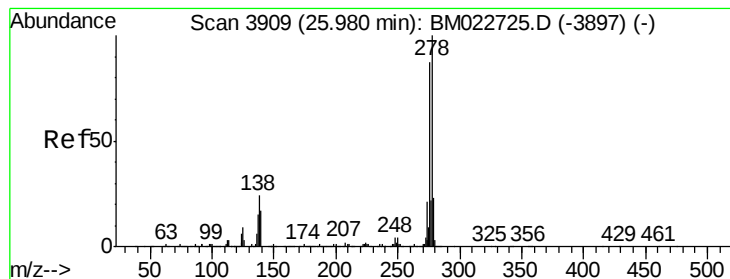
Tot Ion:252 Resp: 2548615
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 10.8 8.5 12.7



#90
Benzo(a)pyrene
Concen: 26.382 ng
RT: 23.54 min Scan# 3495
Delta R.T. -0.01 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

Tgt Ion:252 Resp: 1589754
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 11.4 9.3 13.9



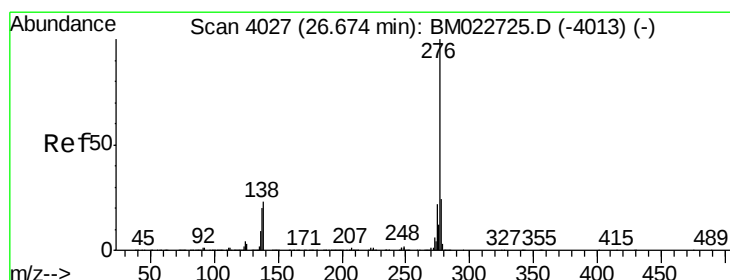
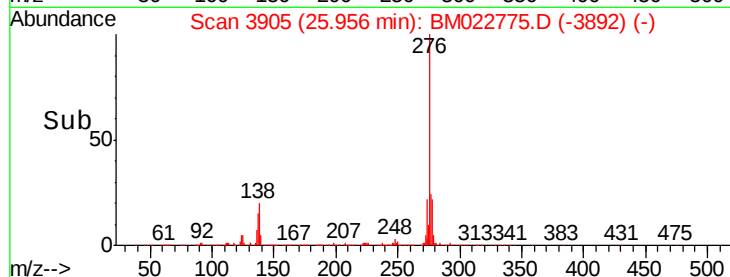
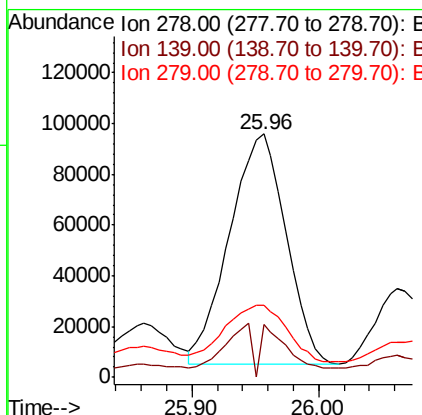
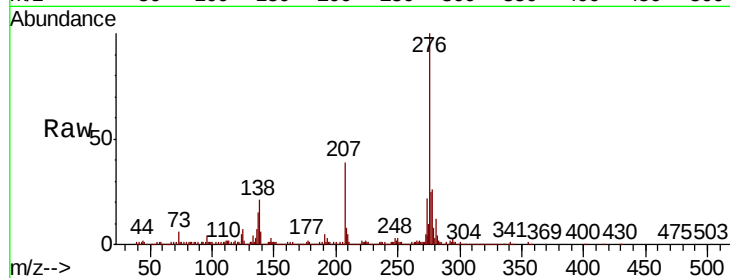


#91
Dibenzo(a,h)anthracene
Concen: 4.490 ng
RT: 25.96 min Scan# 3905
Delta R.T. -0.02 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

Instrument :
BNA_M
ClientSampleId :

Tot Ion:278 Resp: 283003

Ion	Ratio	Lower	Upper
278	100		
139	21.7	13.7	20.5#
279	29.5	18.6	28.0#



#92
Benzo(g,h,i)perylene
Concen: 19.442 ng
RT: 26.66 min Scan# 4024
Delta R.T. -0.02 min
Lab File: BM022775.D
Acq: 25 Sep 2019 17:16

Tgt Ion:276 Resp: 1163985

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.1	28.7
138	22.3	18.5	27.7

