

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM092519\
 Data File : BM022779.D
 Acq On : 25 Sep 2019 19:43
 Operator : JU
 Sample : K4997-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Sep 26 06:02:14 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

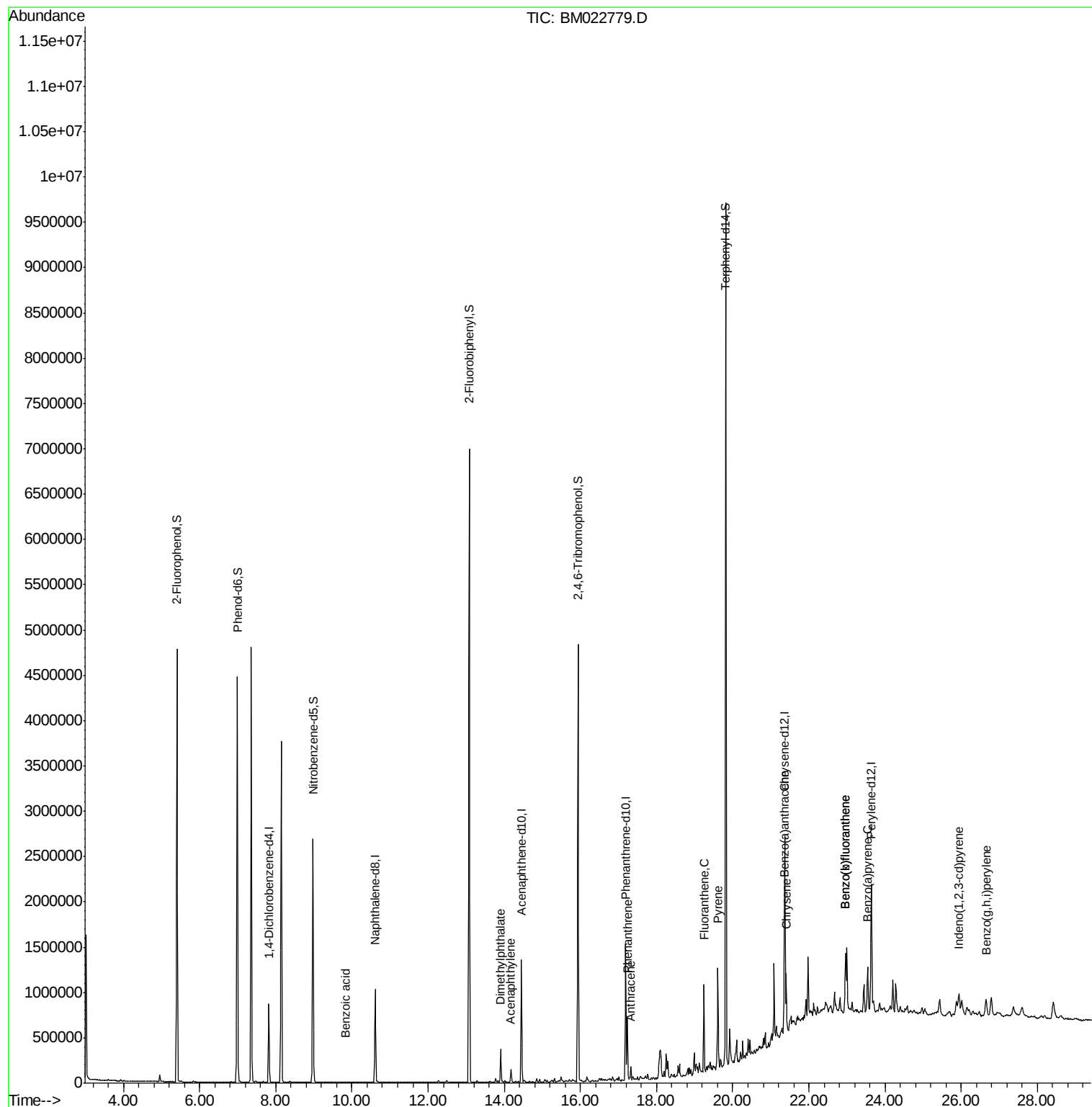
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	245956	20.00	ng	0.00
21) Naphthalene-d8	10.61	136	866279	20.00	ng	-0.01
39) Acenaphthene-d10	14.45	164	465507	20.00	ng	-0.01
64) Phenanthrene-d10	17.19	188	837391	20.00	ng	0.00
76) Chrysene-d12	21.37	240	835142	20.00	ng	-0.01
87) Perylene-d12	23.64	264	1038118	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	2075090	133.81	ng	0.00
7) Phenol-d6	6.99	99	2709416	136.02	ng	0.00
23) Nitrobenzene-d5	8.97	82	1553036	99.52	ng	0.00
42) 2,4,6-Tribromophenol	15.94	330	888652	152.92	ng	0.00
45) 2-Fluorobiphenyl	13.08	172	3607283	106.71	ng	0.00
79) Terphenyl-d14	19.82	244	4309091	99.91	ng	0.00
Target Compounds						
32) Benzoic acid	9.85	122	1086	4.056	ng	Qvalue # 70
49) Acenaphthylene	14.17	152	112449	2.644	ng	100
50) Dimethylphthalate	13.91	163	227445	6.761	ng	99
71) Phenanthrene	17.23	178	399914	8.464	ng	100
72) Anthracene	17.32	178	101825	2.224	ng	98
75) Fluoranthene	19.24	202	545216	10.226	ng	99
78) Pyrene	19.61	202	635165	11.605	ng	100
81) Benzo(a)anthracene	21.35	228	299298	5.530	ng	95
83) Chrysene	21.40	228	345659	6.587	ng	97
86) Indeno(1,2,3-cd)pyrene	25.94	276	204835	3.270	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	512517	8.154	ng	98
89) Benzo(k)fluoranthene	22.96	252	512833	8.223	ng	98
90) Benzo(a)pyrene	23.54	252	301695	5.209	ng	98
92) Benzo(a,h,i)perylene	26.65	276	217649	3.782	ng	99

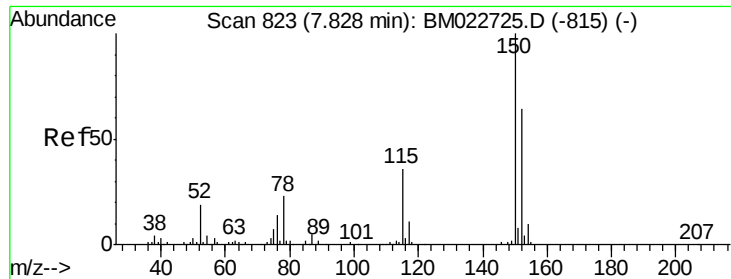
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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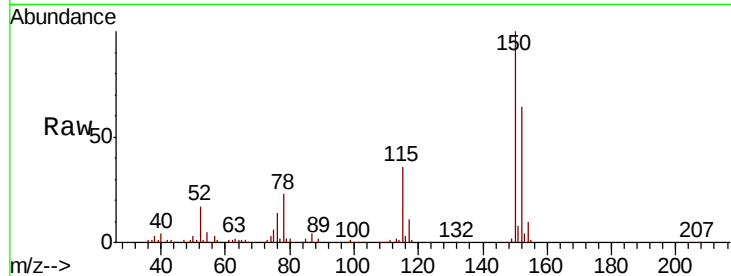


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.82 min Scan# 822
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.5	186.7
115	56.4	45.0	67.4

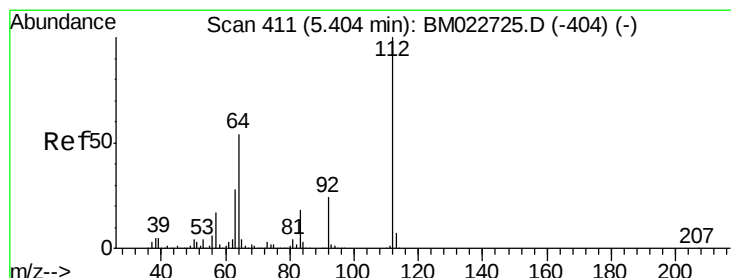
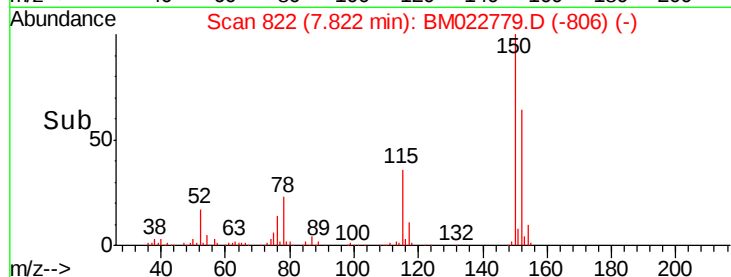
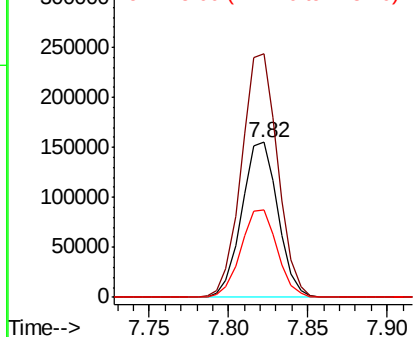


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

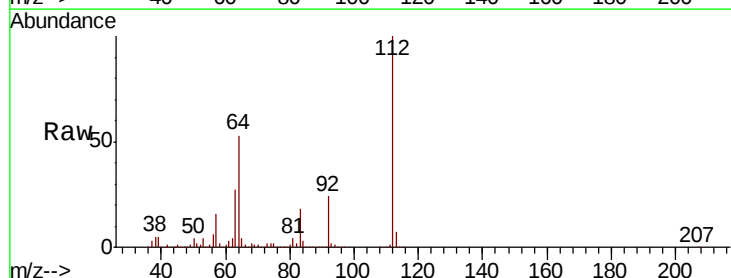
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 133.805 ng
RT: 5.40 min Scan# 411
Delta R.T. 0.00 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.3	43.4	65.2
63	27.4	22.1	33.1

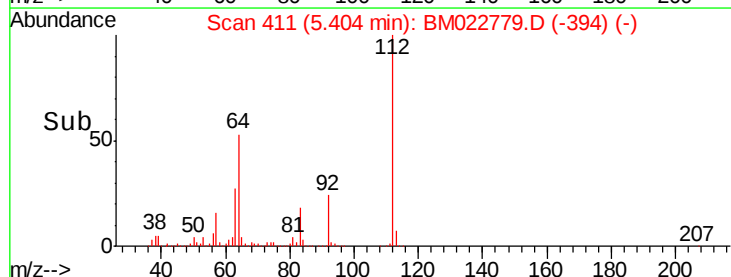
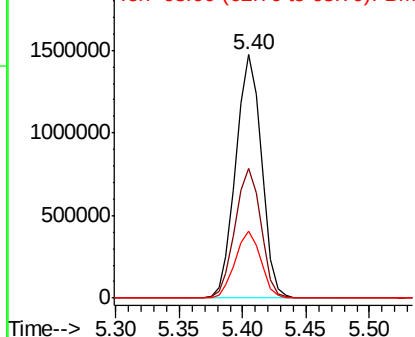


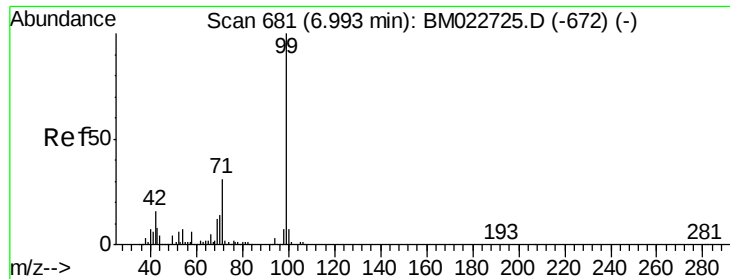
Abundance

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: 136.024 ng

RT: 6.99 min Scan# 681

Delta R.T. 0.00 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

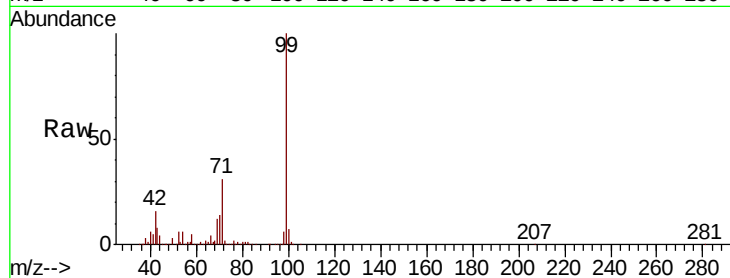
Tot Ion: 99 Resp: 2709416

Ion Ratio Lower Upper

99 100

42 15.5 13.0 19.4

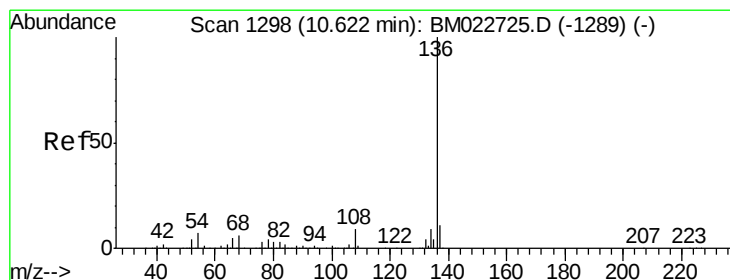
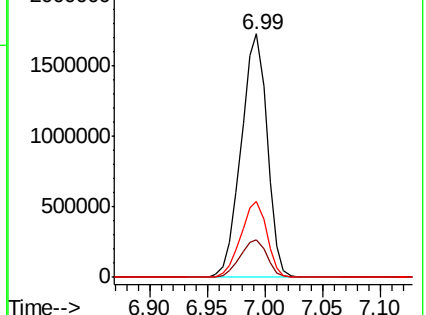
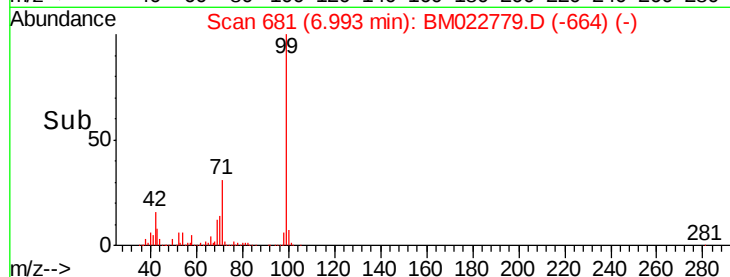
71 31.0 24.7 37.1



Abundance Ion 99.00 (98.70 to 99.70): BM022779.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM022779.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM022779.D (-664) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.61 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Tgt Ion: 136 Resp: 866279

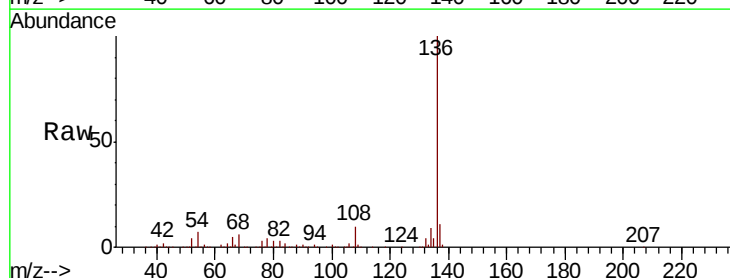
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 7.2 6.0 9.0

68 5.8 4.9 7.3

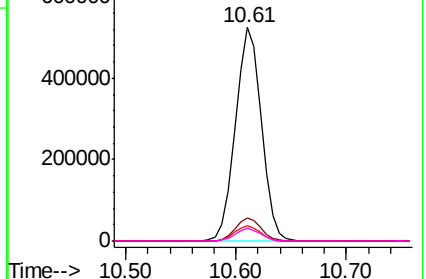
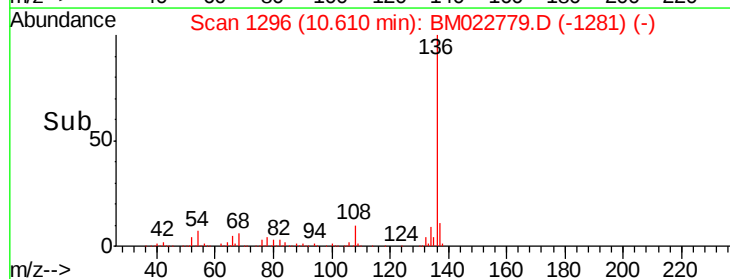


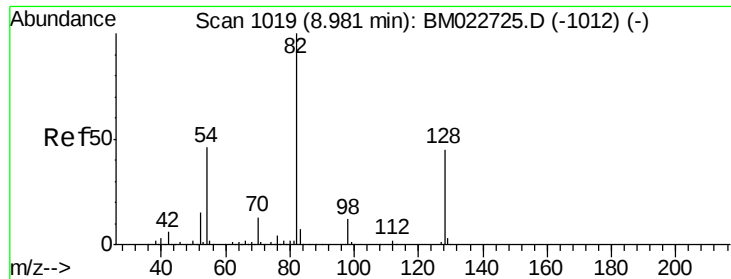
Abundance Ion 136.00 (135.70 to 136.70): BM022779.D (-1281) (-)

Ion 137.00 (136.70 to 137.70): BM022779.D (-1281) (-)

Ion 54.00 (53.70 to 54.70): BM022779.D (-1281) (-)

Ion 68.00 (67.70 to 68.70): BM022779.D (-1281) (-)

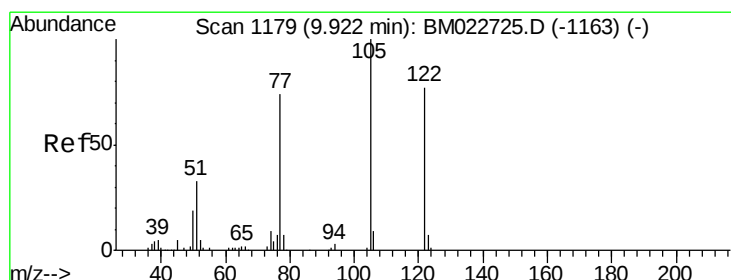
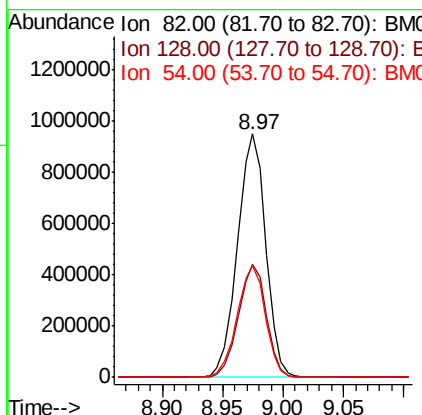
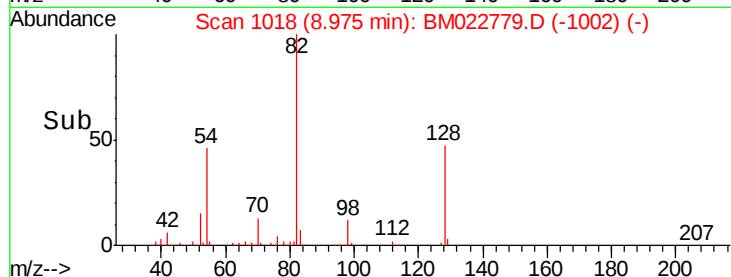
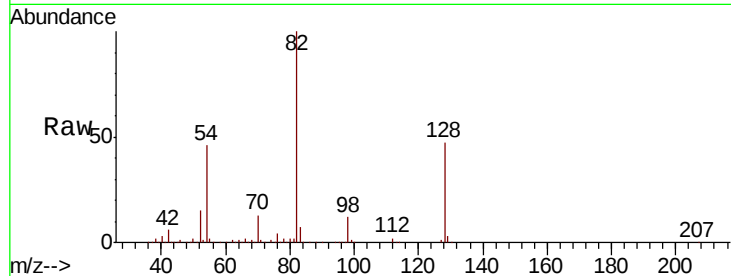




#23
Nitrobenzene-d5
Concen: 99.517 ng
RT: 8.97 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

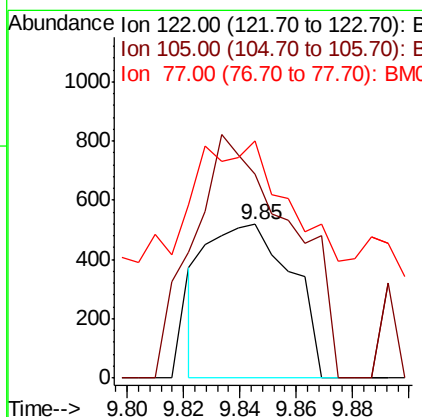
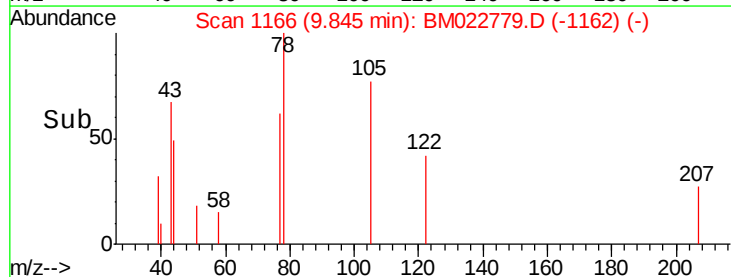
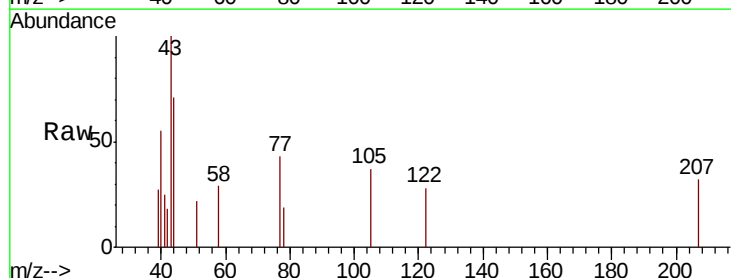
Instrument :
BNA_M
ClientSampleId :

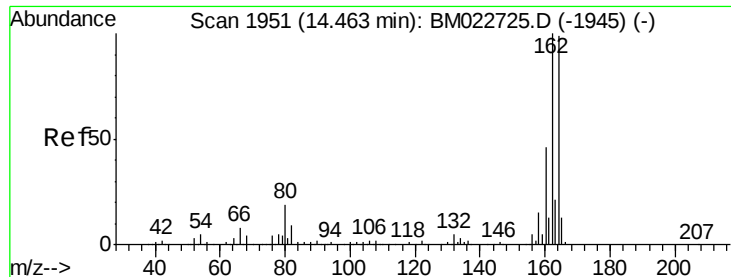
Tot Ion: 82 Resp: 1553036
Ion Ratio Lower Upper
82 100
128 46.7 36.0 54.0
54 45.8 37.1 55.7



#32
Benzoic acid
Concen: 4.056 ng
RT: 9.85 min Scan# 1166
Delta R.T. -0.08 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 122 Resp: 1086
Ion Ratio Lower Upper
122 100
105 132.8 105.3 145.3
77 154.2 74.7 114.7#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.45 min Scan# 1949

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

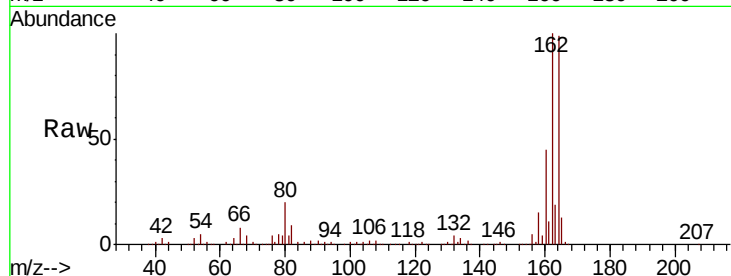
Tot Ion:164 Resp: 465507

Ion Ratio Lower Upper

164 100

162 101.1 81.1 121.7

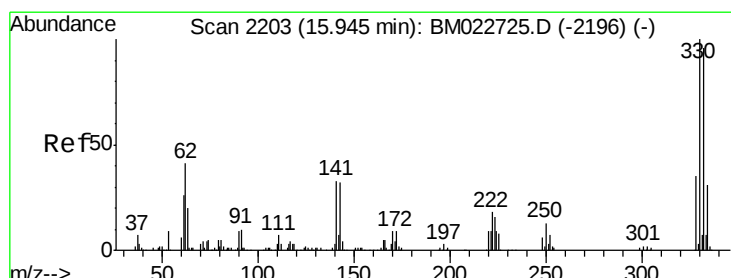
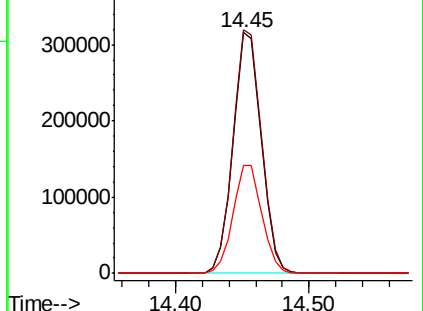
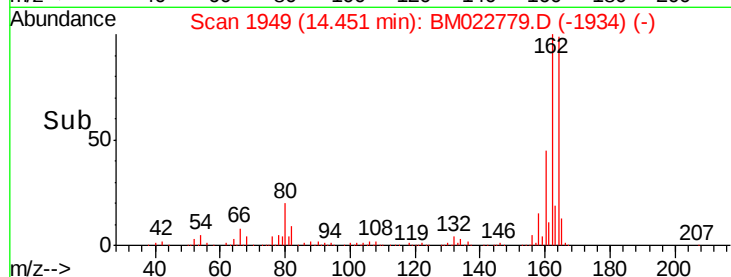
160 45.0 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 152.923 ng

RT: 15.94 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

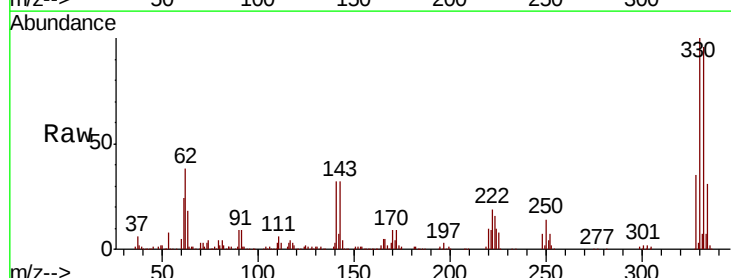
Tgt Ion:330 Resp: 888652

Ion Ratio Lower Upper

330 100

332 96.0 76.9 115.3

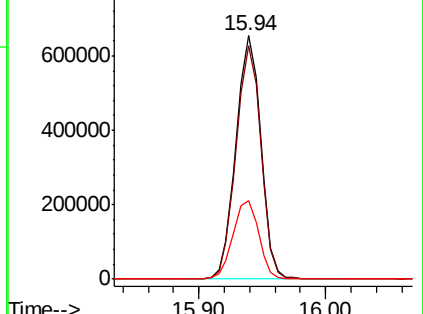
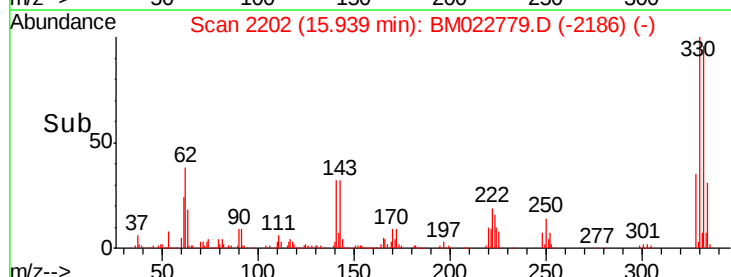
141 33.2 28.6 42.8

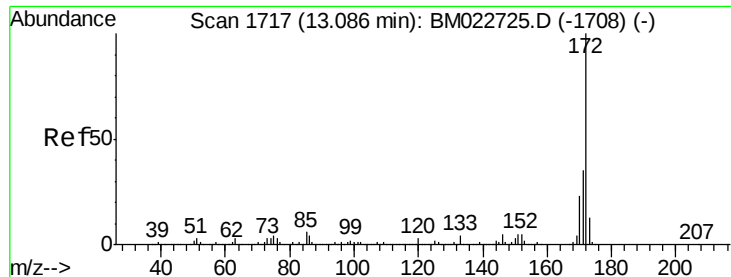


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

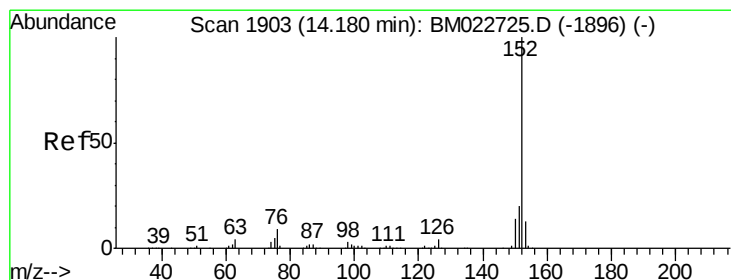
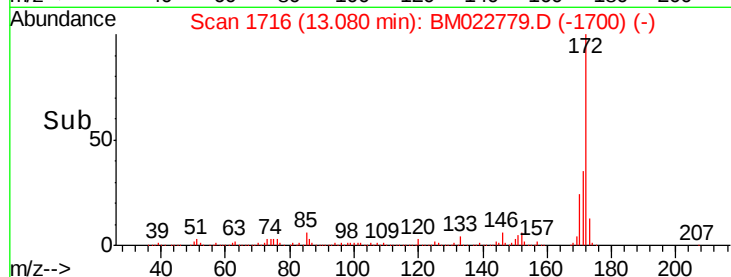
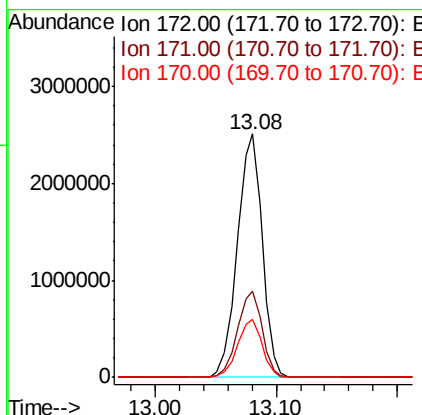
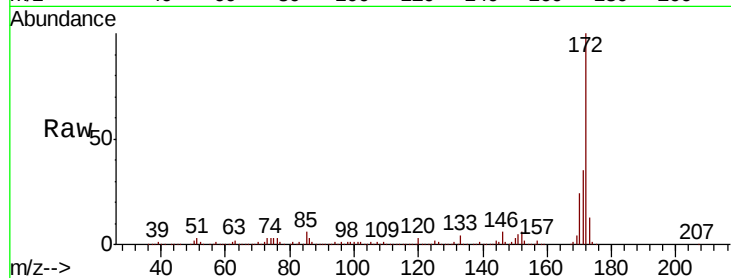




#45
2-Fluorobiphenyl
Concen: 106.709 ng
RT: 13.08 min Scan# 1716
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

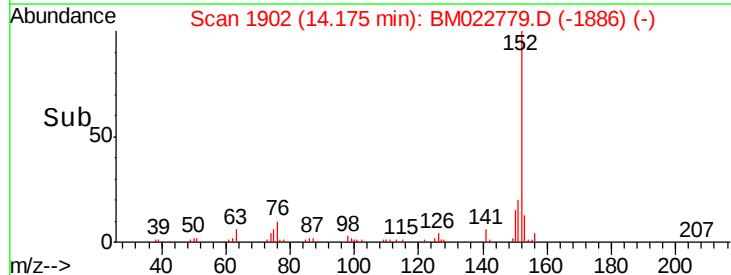
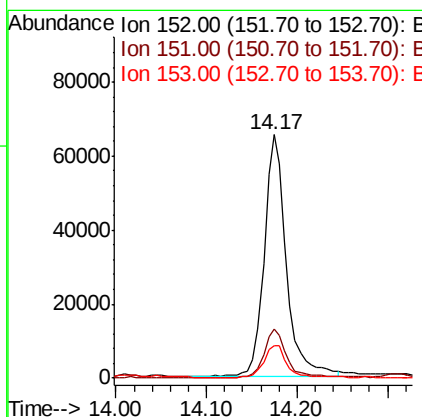
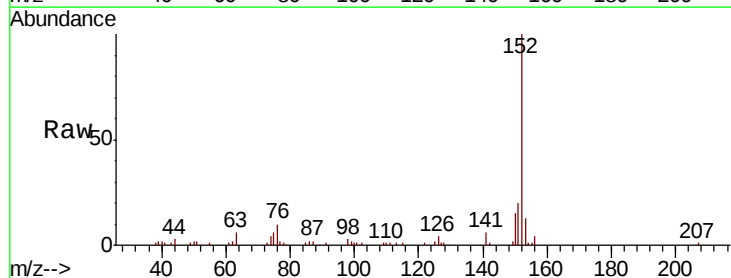
Instrument :
BNA_M
ClientSampleId :

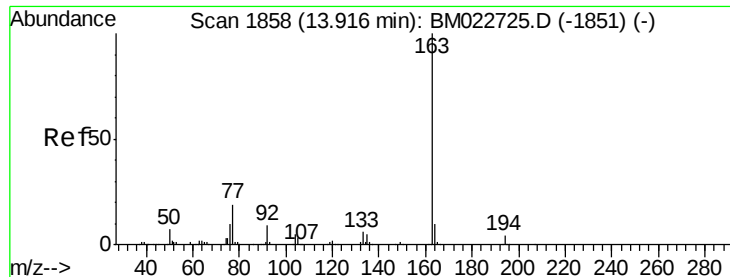
Tot Ion:172 Resp: 3607283
Ion Ratio Lower Upper
172 100
171 35.3 27.8 41.8
170 23.6 18.7 28.1



#49
Acenaphthylene
Concen: 2.644 ng
RT: 14.17 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion:152 Resp: 112449
Ion Ratio Lower Upper
152 100
151 20.0 15.9 23.9
153 13.4 10.5 15.7





#50

Dimethylphthalate

Concen: 6.761 ng

RT: 13.91 min Scan# 1857

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

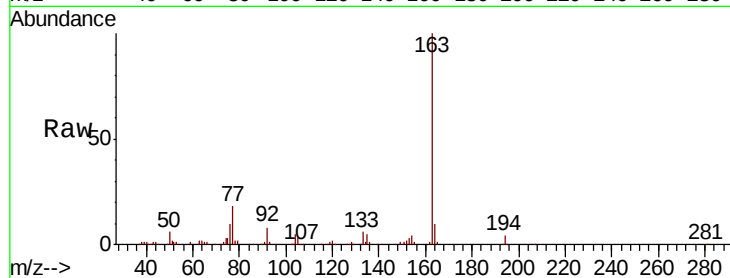
Tot Ion:163 Resp: 227445

Ion Ratio Lower Upper

163 100

194 4.2 3.3 4.9

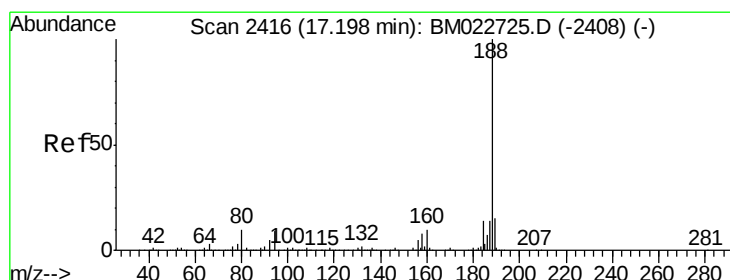
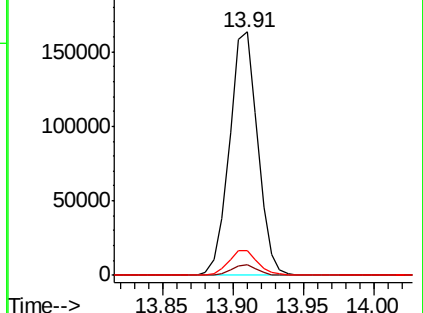
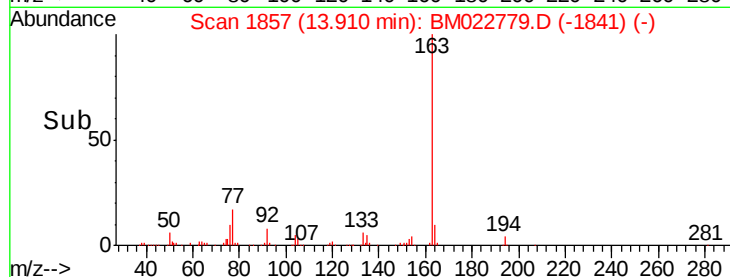
164 9.9 8.2 12.2



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2415

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

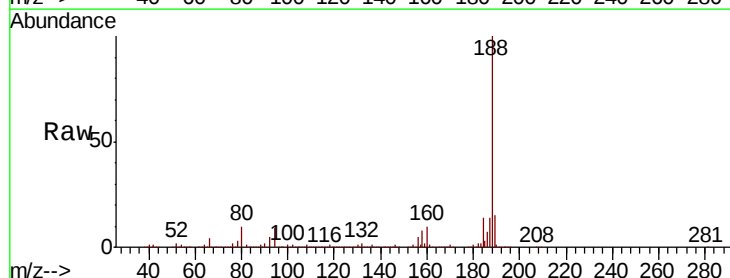
Tgt Ion:188 Resp: 837391

Ion Ratio Lower Upper

188 100

94 9.0 7.3 10.9

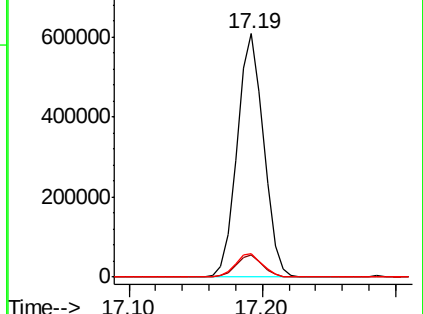
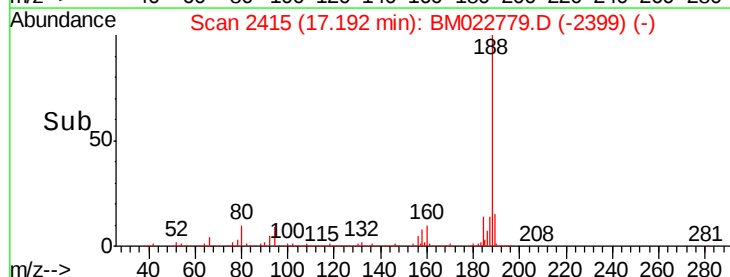
80 9.9 7.8 11.8

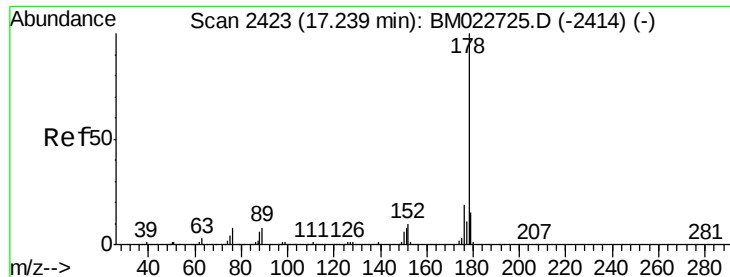


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

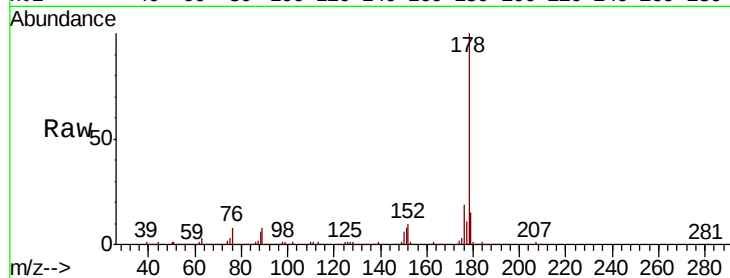




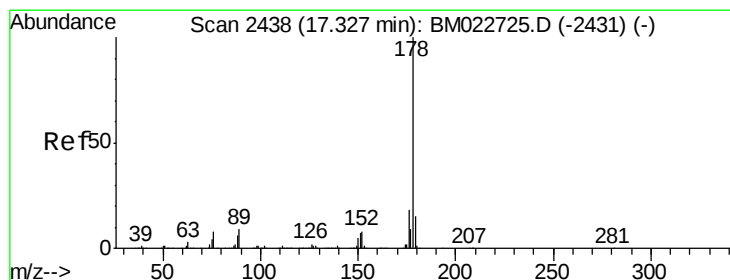
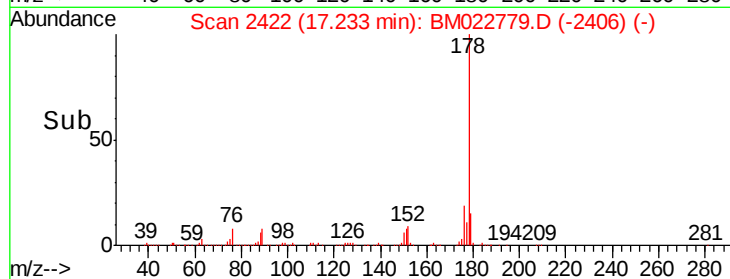
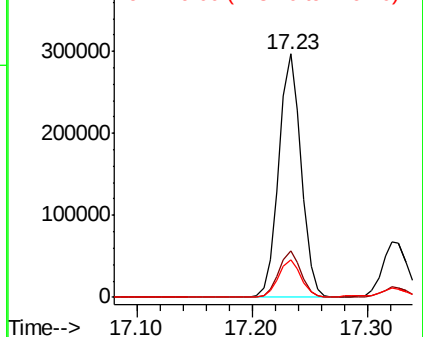
#71
Phenanthrene
Concen: 8.464 ng
RT: 17.23 min Scan# 2422
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Instrument :
BNA_M
ClientSampleId :

Tot Ion:178 Resp: 399914
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.4 12.3 18.5

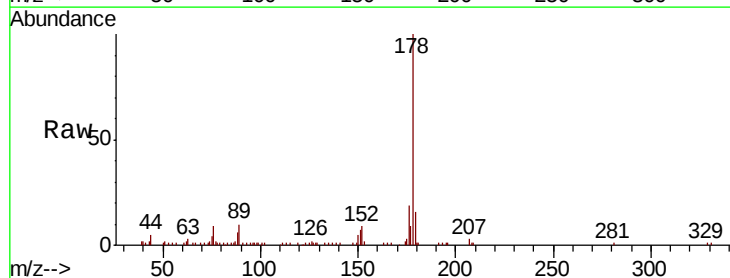


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

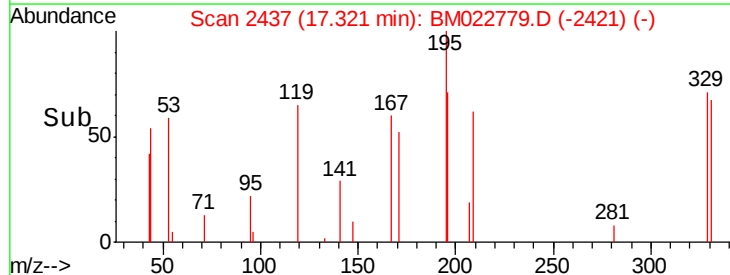
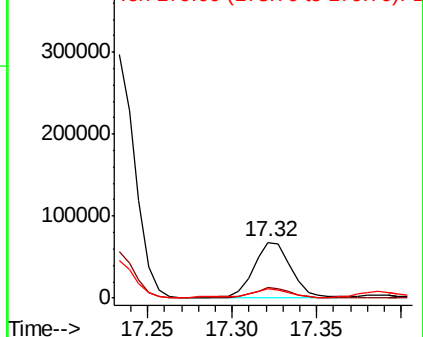


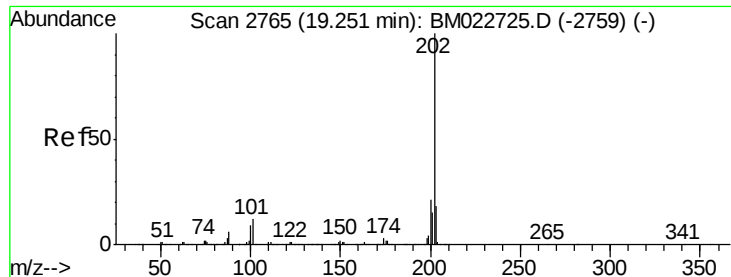
#72
Anthracene
Concen: 2.224 ng
RT: 17.32 min Scan# 2437
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion:178 Resp: 101825
Ion Ratio Lower Upper
178 100
176 19.2 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: 10.226 ng

RT: 19.24 min Scan# 2764

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

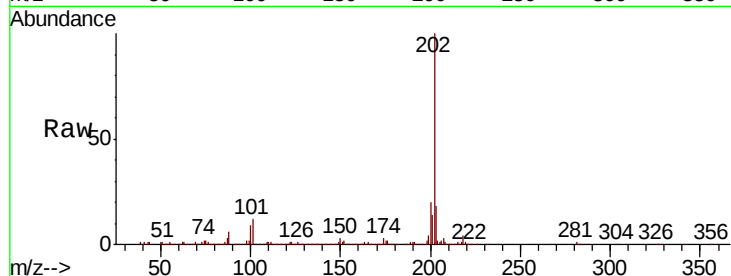
Tot Ion:202 Resp: 545216

Ion Ratio Lower Upper

202 100

101 11.5 0.0 32.1

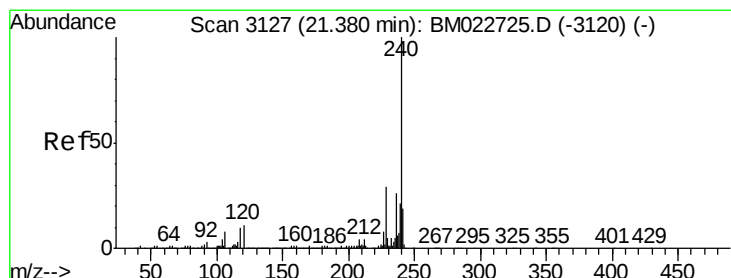
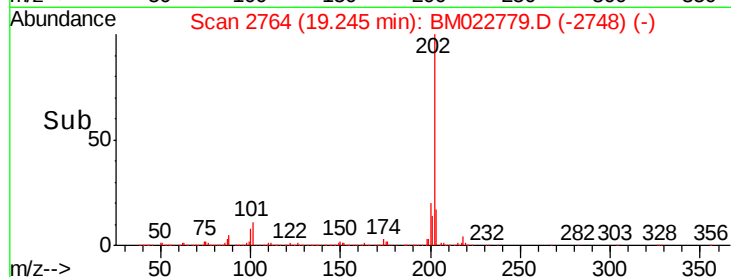
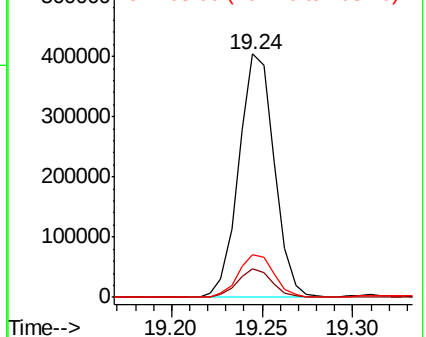
203 17.8 0.0 37.7



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: BM022779.D

Acq: 25 Sep 2019 19:43

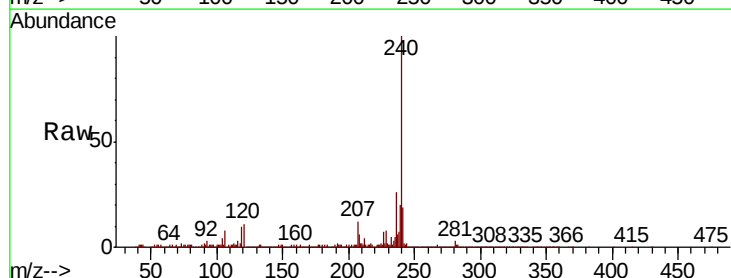
Tgt Ion:240 Resp: 835142

Ion Ratio Lower Upper

240 100

120 10.9 8.8 13.2

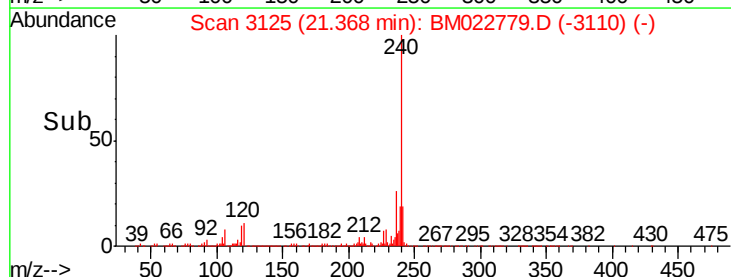
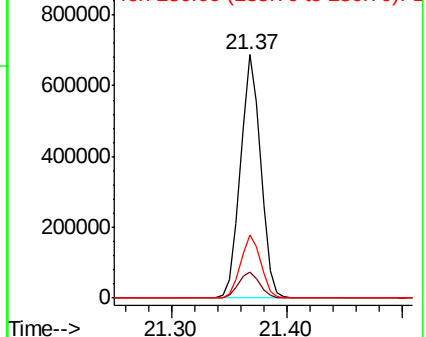
236 25.8 20.8 31.2

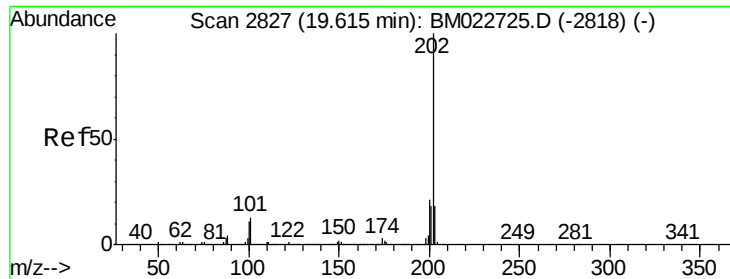


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

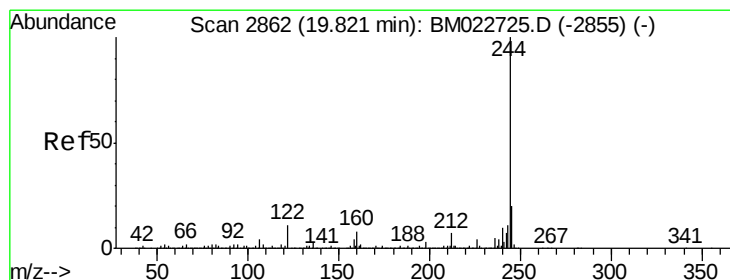
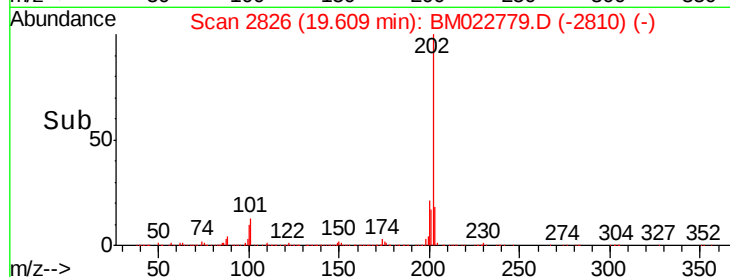
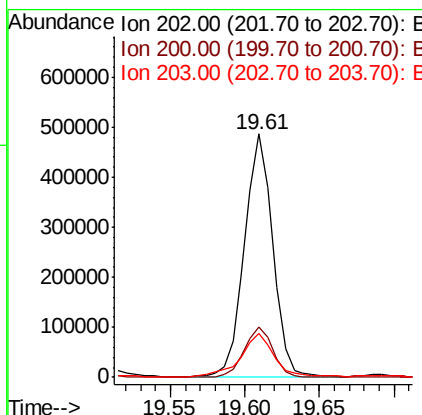
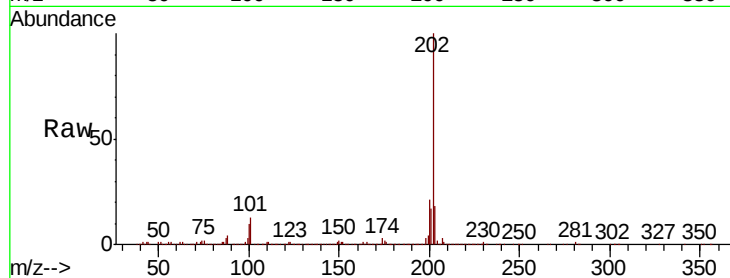




#78
Pvrene
Concen: 11.605 ng
RT: 19.61 min Scan# 2826
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

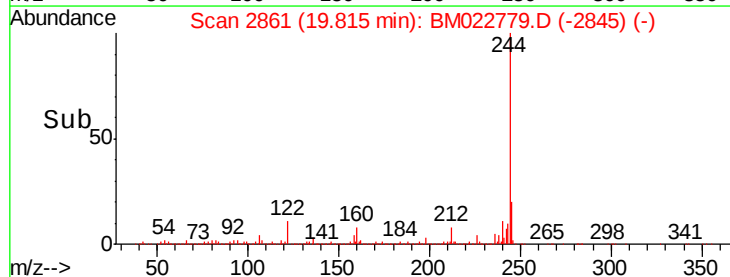
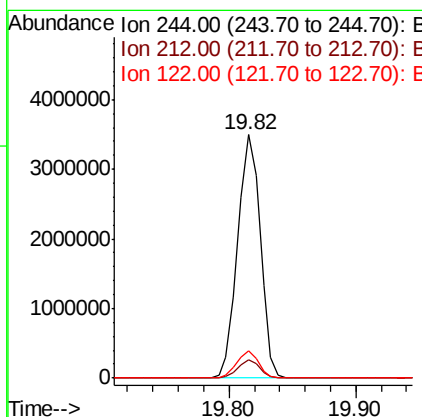
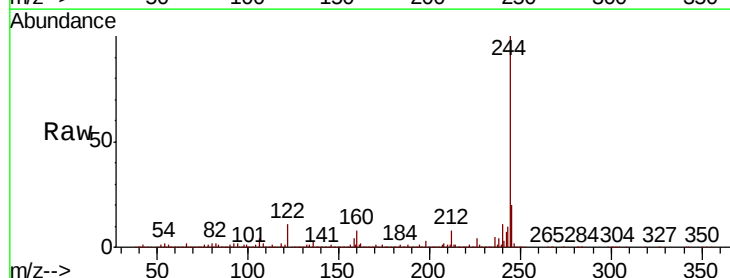
Instrument :
BNA_M
ClientSampleId :

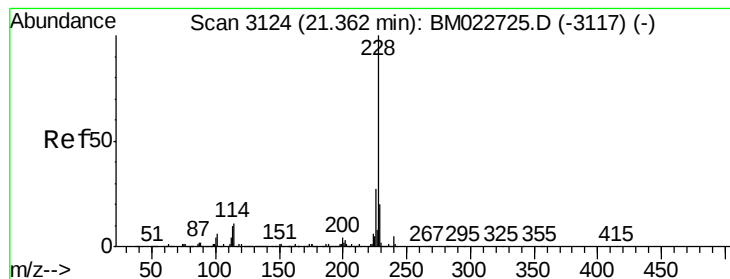
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.1	21.1



#79
Terphenyl-d14
Concen: 99.911 ng
RT: 19.82 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.9	8.9
122	11.0	9.0	13.4





#81

Benzo(a)anthracene

Concen: 5.530 ng

RT: 21.35 min Scan# 3122

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

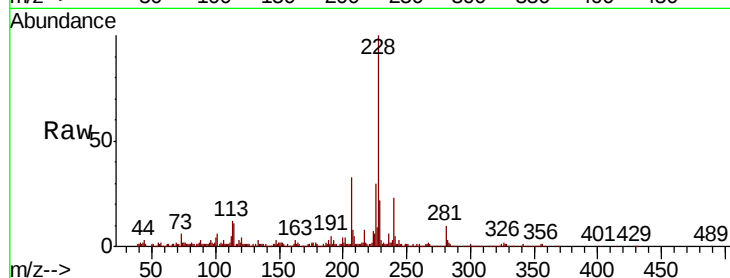
Tot Ion:228 Resp: 299298

Ion Ratio Lower Upper

228 100

226 30.4 22.0 33.0

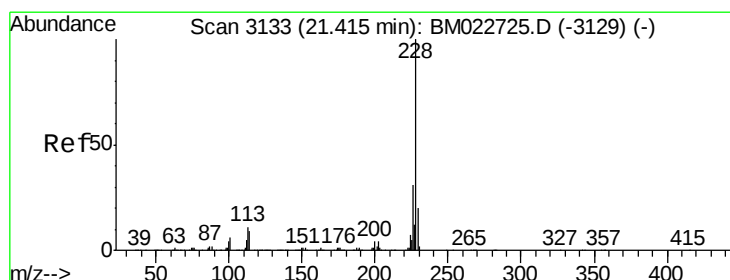
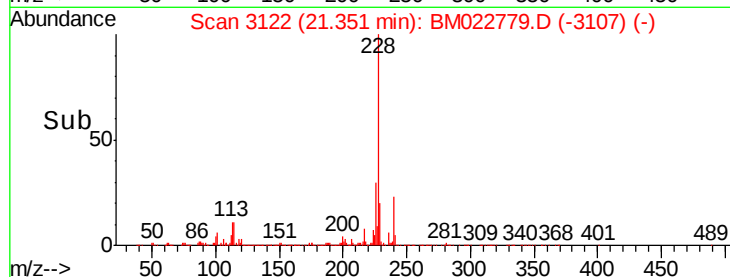
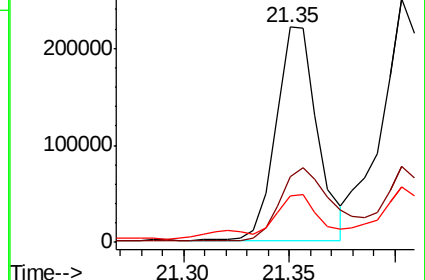
229 21.9 15.9 23.9



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



#83

Chrysene

Concen: 6.587 ng

RT: 21.40 min Scan# 3131

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

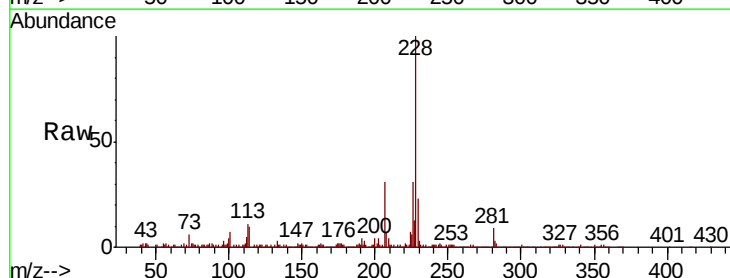
Tgt Ion:228 Resp: 345659

Ion Ratio Lower Upper

228 100

226 31.1 24.5 36.7

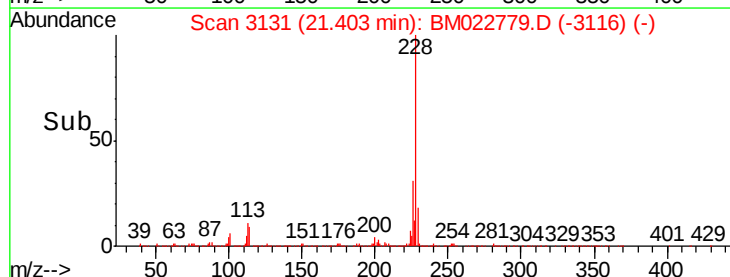
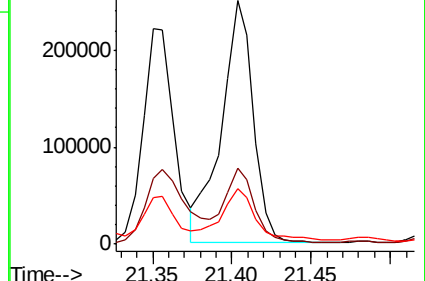
229 22.6 15.9 23.9

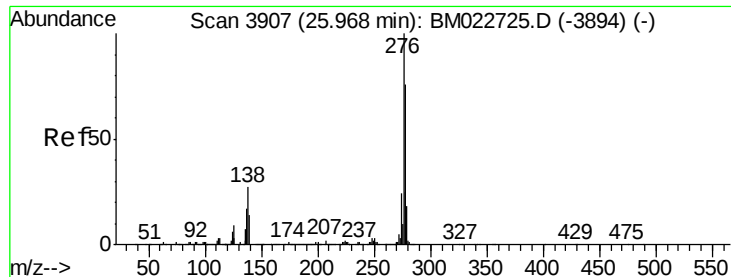


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.270 ng

RT: 25.94 min Scan# 3903

Delta R.T. -0.02 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

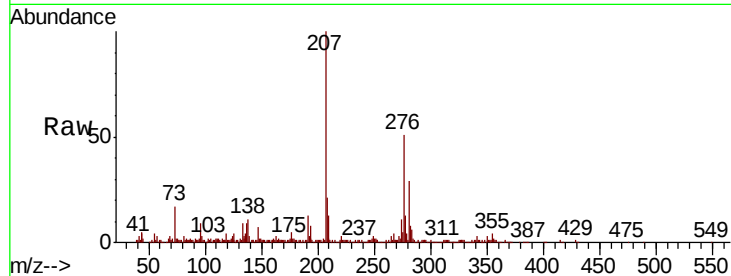
Tot Ion:276 Resp: 204835

Ion Ratio Lower Upper

276 100

138 20.7 0.0 0.0#

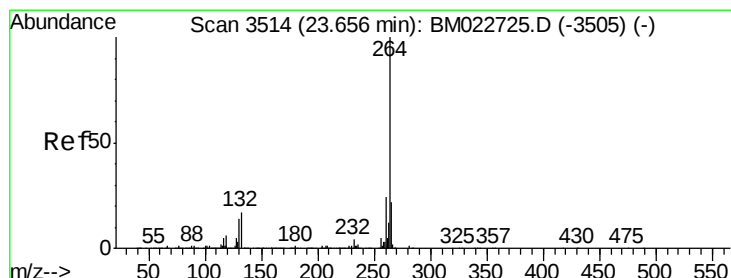
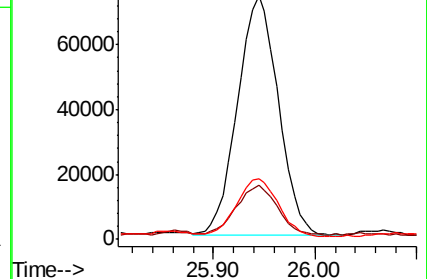
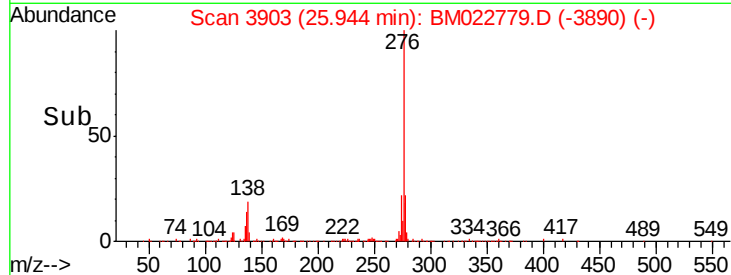
277 24.9 0.0 0.0#



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

Perylene-d12

Concen: 20.000 ng

RT: 23.64 min Scan# 3512

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

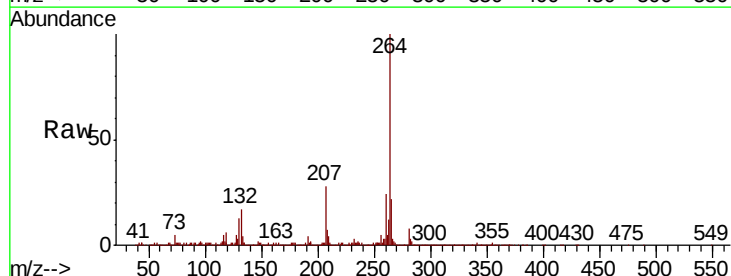
Tgt Ion:264 Resp: 1038118

Ion Ratio Lower Upper

264 100

260 23.6 19.1 28.7

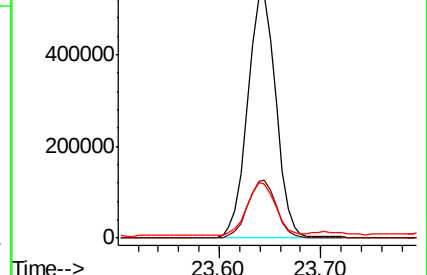
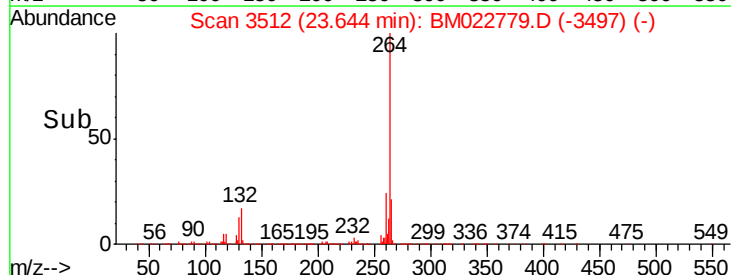
265 22.3 17.9 26.9

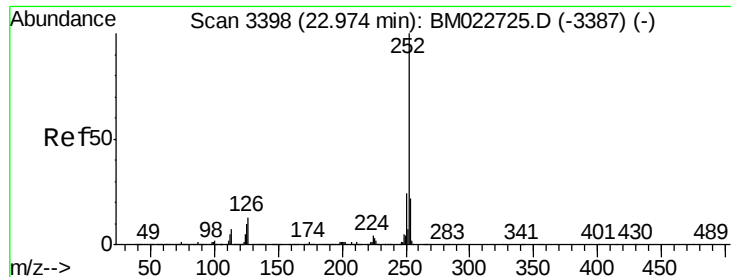


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

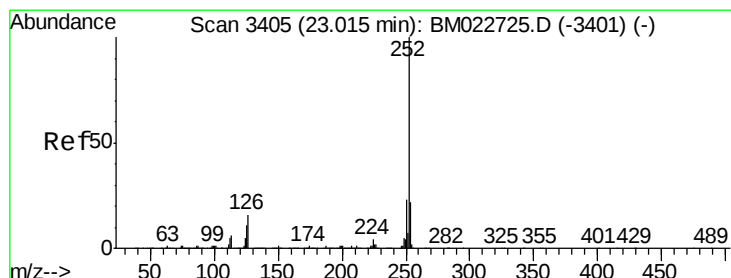
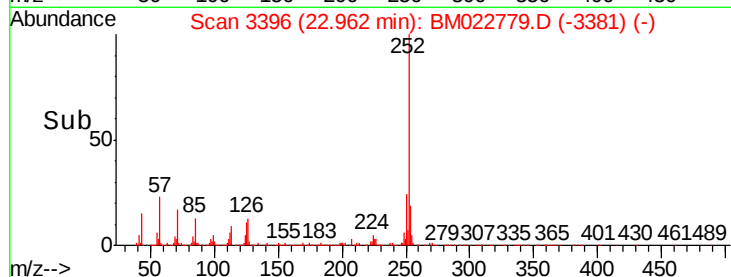
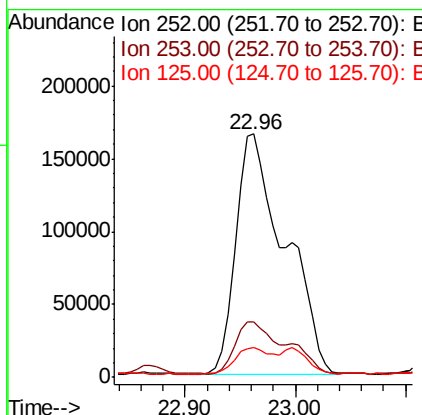
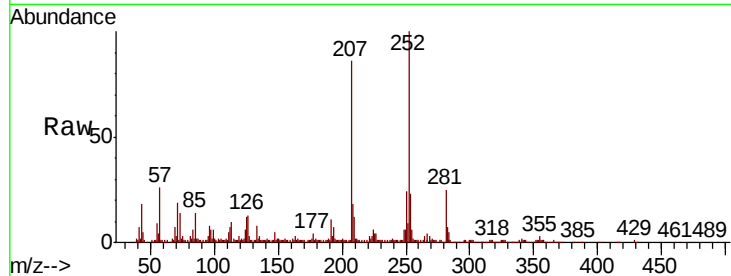




#88
Benzo(b)fluoranthene
Concen: 8.154 ng
RT: 22.96 min Scan# 3396
Delta R.T. -0.01 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

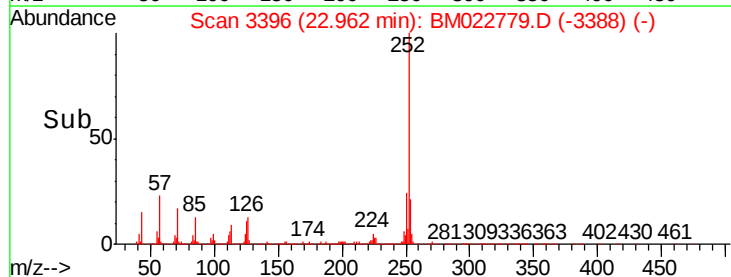
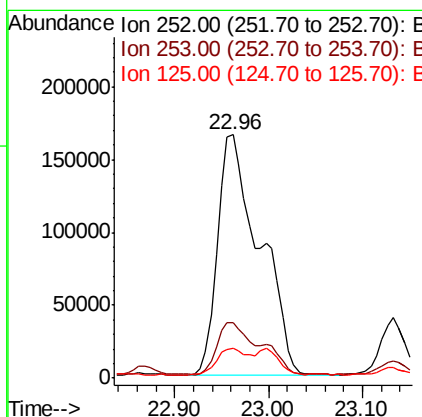
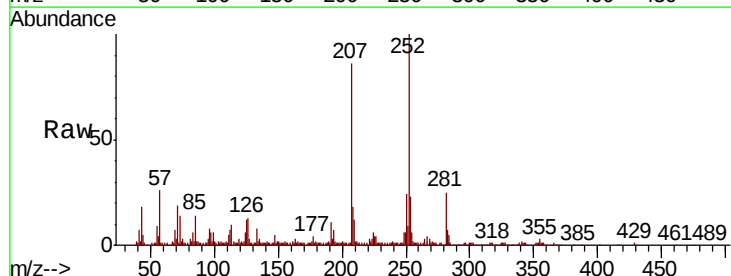
Instrument :
BNA_M
ClientSampleId :

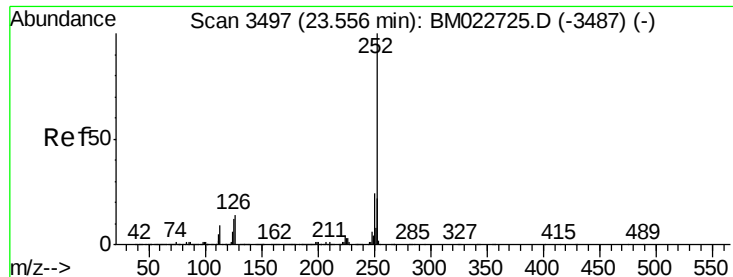
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	12.2	8.2	12.4



#89
Benzo(k)fluoranthene
Concen: 8.223 ng
RT: 22.96 min Scan# 3396
Delta R.T. -0.05 min
Lab File: BM022779.D
Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	12.2	8.5	12.7





#90

Benzo(a)pyrene

Concen: 5.209 ng

RT: 23.54 min Scan# 3495

Delta R.T. -0.01 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

Instrument :

BNA_M

ClientSampleId :

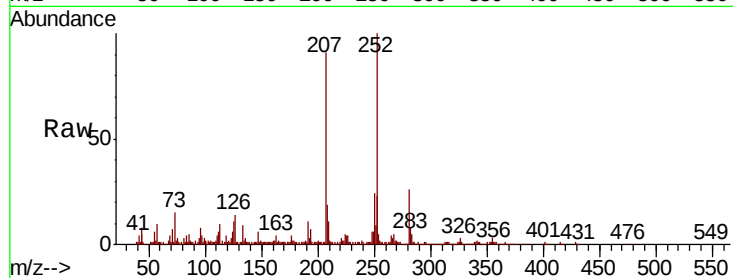
Tot Ion:252 Resp: 301695

Ion Ratio Lower Upper

252 100

253 23.1 17.3 25.9

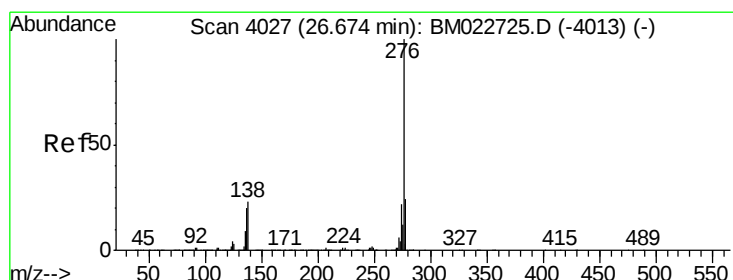
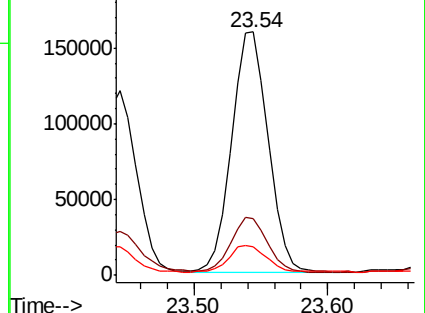
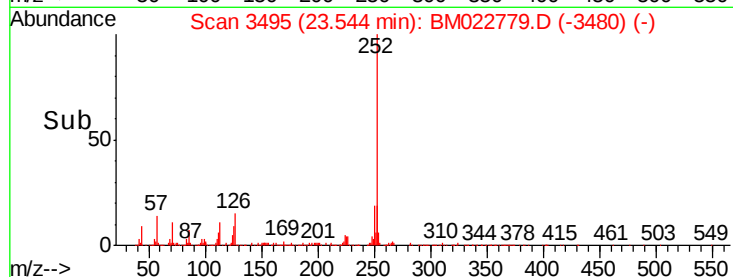
125 11.5 9.3 13.9



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: 3.782 ng

RT: 26.65 min Scan# 4023

Delta R.T. -0.02 min

Lab File: BM022779.D

Acq: 25 Sep 2019 19:43

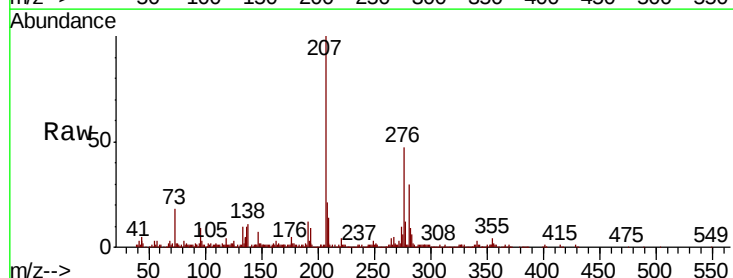
Tgt Ion:276 Resp: 217649

Ion Ratio Lower Upper

276 100

277 24.8 19.1 28.7

138 23.3 18.5 27.7



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

