

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020224.D
 Acq On : 09 May 2019 19:15
 Operator : JU/SJ
 Sample : K2645-09 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 10 04:43:30 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	118780	20.00	ng	-0.02
21) Naphthalene-d8	10.57	136	426908	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	246056	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	570984	20.00	ng	-0.01
76) Chrysene-d12	21.36	240	638801	20.00	ng	-0.01
87) Perylene-d12	23.65	264	797166	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	166504	22.91	ng	-0.01
7) Phenol-d6	6.94	99	211204	21.28	ng	-0.01
23) Nitrobenzene-d5	8.95	82	151407	14.00	ng	-0.01
42) 2,4,6-Tribromophenol	15.92	330	84113	22.02	ng	0.00
45) 2-Fluorobiphenyl	13.04	172	267237	13.36	ng	-0.02
79) Terphenyl-d14	19.79	244	411601	11.24	ng	-0.02

Target Compounds

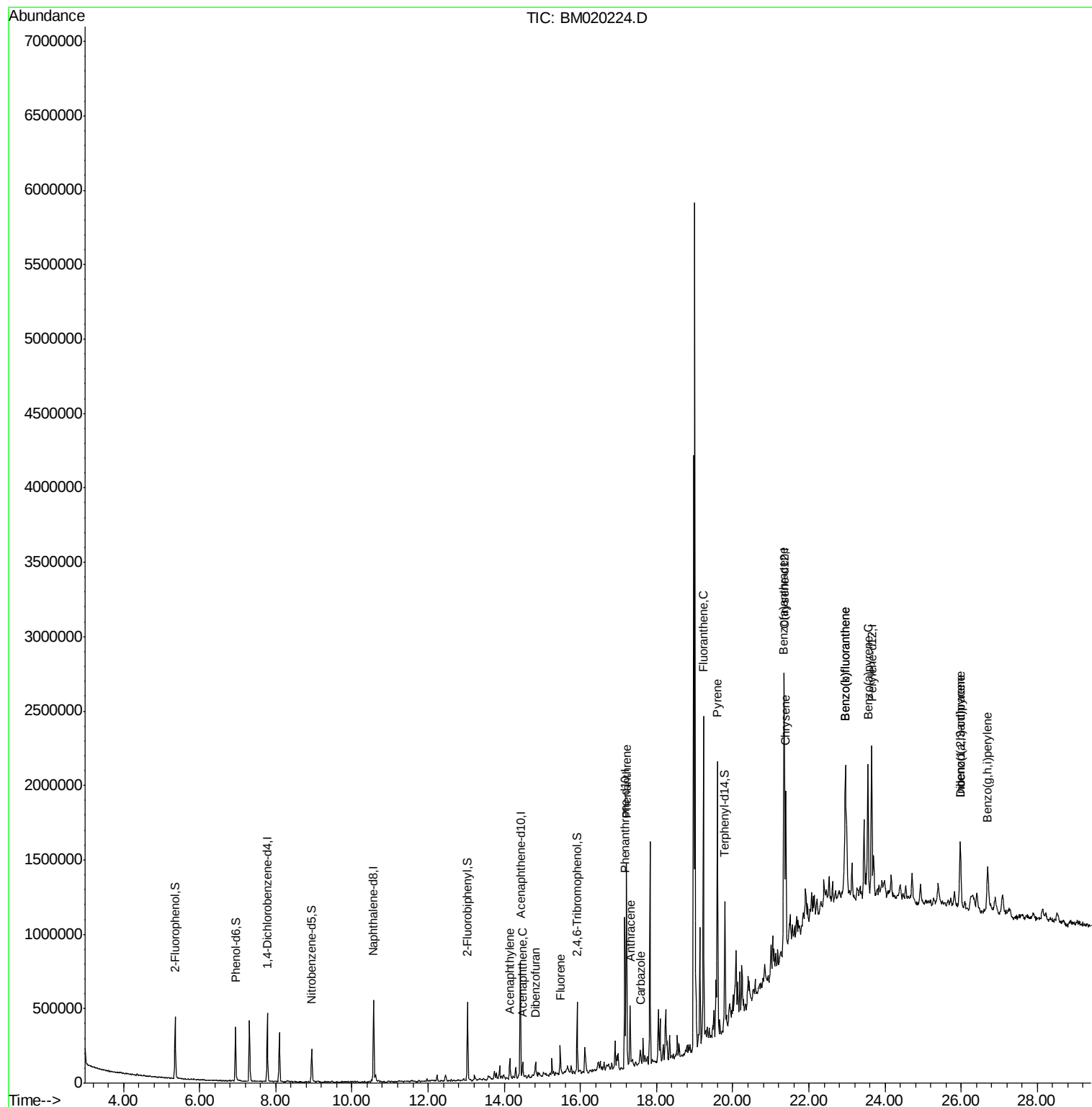
						Qvalue
49) Acenaphthylene	14.15	152	92907	3.590	ng	99
52) Acenaphthene	14.49	154	36520	2.461	ng	98
55) Dibenzofuran	14.82	168	51358	2.052	ng	99
58) Fluorene	15.47	166	88413	4.301	ng	96
71) Phenanthrene	17.21	178	803106	25.480	ng	99
72) Anthracene	17.30	178	246000	7.806	ng	99
73) Carbazole	17.57	167	64584	2.271	ng	95
75) Fluoranthene	19.23	202	1304760	32.718	ng	99
78) Pyrene	19.60	202	1154559	26.920	ng	99
81) Benzo(a)anthracene	21.34	228	682594	15.237	ng	99
83) Chrysene	21.39	228	597250	13.747	ng	96
86) Indeno(1,2,3-cd)pyrene	25.97	276	447611	8.661	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	869692	16.521	ng	97
89) Benzo(k)fluoranthene	22.96	252	862008	17.952	ng	98
90) Benzo(a)pyrene	23.55	252	639960	13.384	ng	# 95
91) Dibenzo(a,h)anthracene	25.98	278	116422	2.341	ng	# 88
92) Benzo(g,h,i)perylene	26.69	276	430700	9.123	ng	98

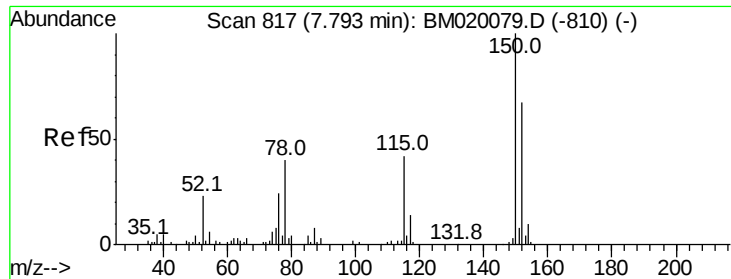
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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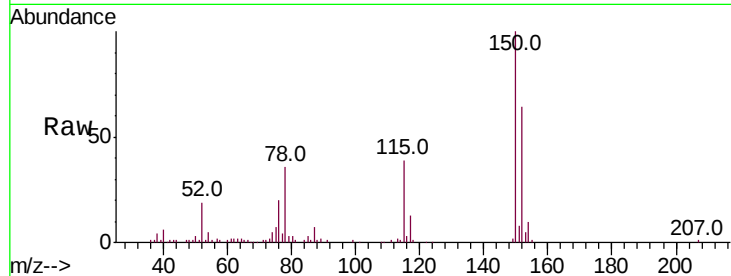


#1

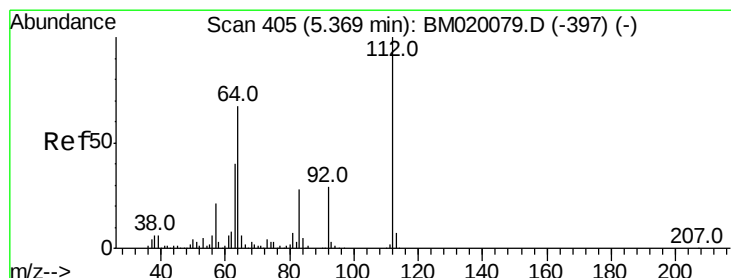
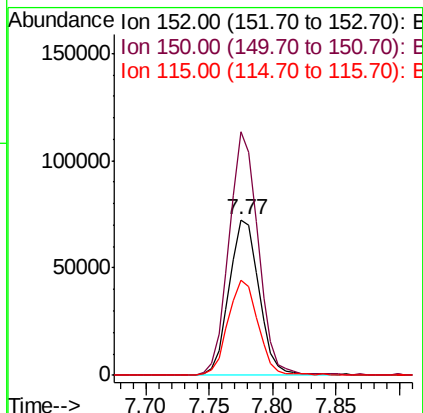
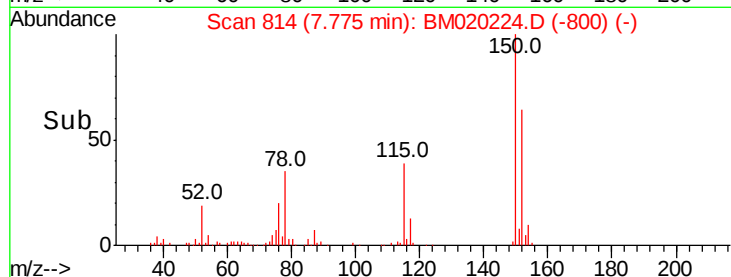
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.77 min Scan# 814
Delta R.T. -0.02 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

Instrument :
BNA_M
ClientSampleId :

Tot Ion:152 Resp: 118780
Ion Ratio Lower Upper
152 100
150 156.5 119.8 179.8
115 61.1 50.8 76.2



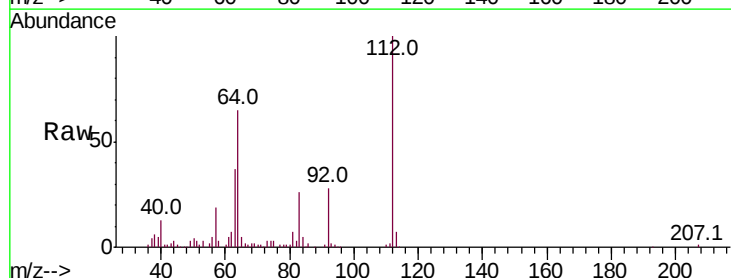
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



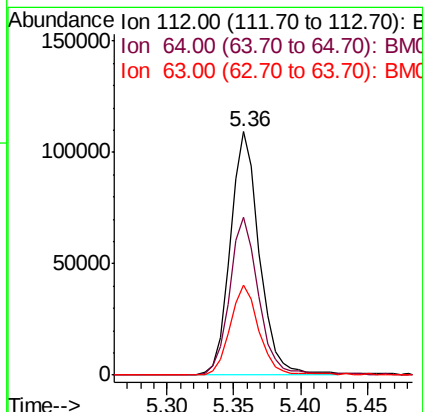
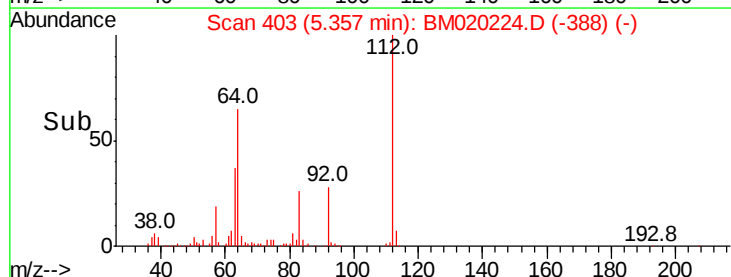
#5

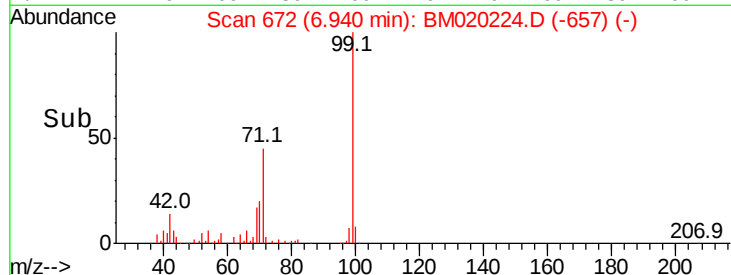
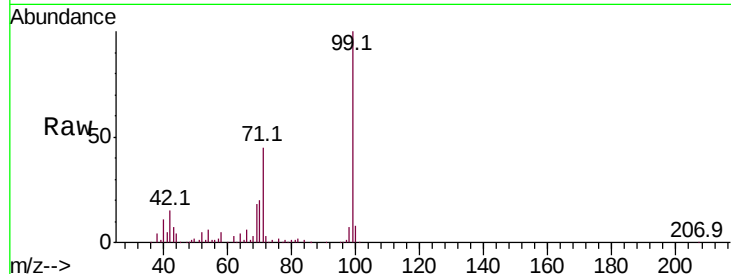
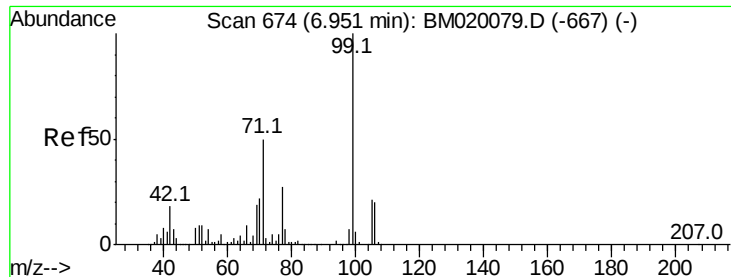
2-Fluorophenol
Concen: 22.913 ng
RT: 5.36 min Scan# 403
Delta R.T. -0.01 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

Tgt Ion:112 Resp: 166504
Ion Ratio Lower Upper
112 100
64 64.6 53.8 80.6
63 36.8 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

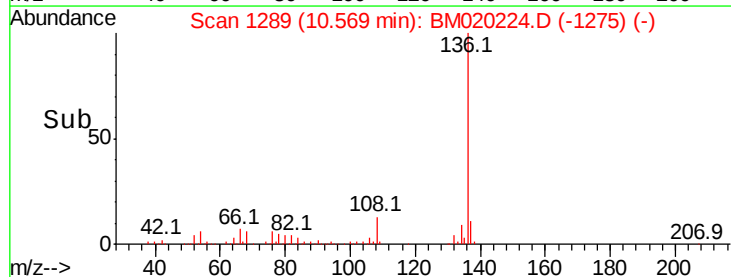
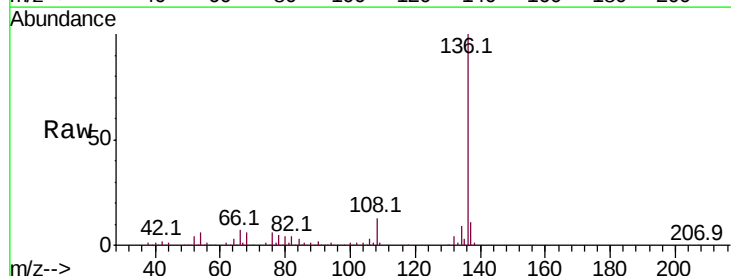
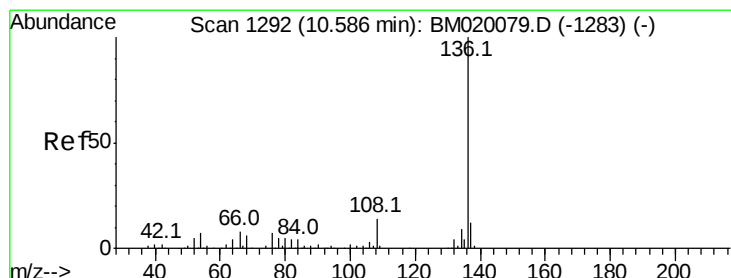
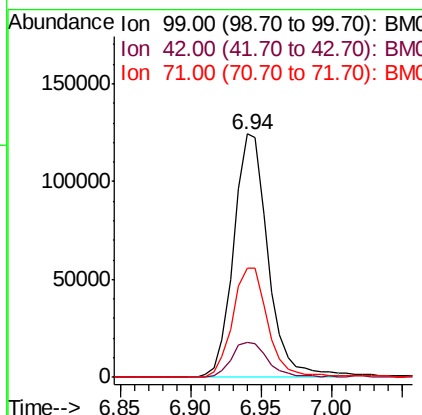




#7
 Phenol-d6
 Concen: 21.275 ng
 RT: 6.94 min Scan# 672
 Delta R.T. -0.01 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

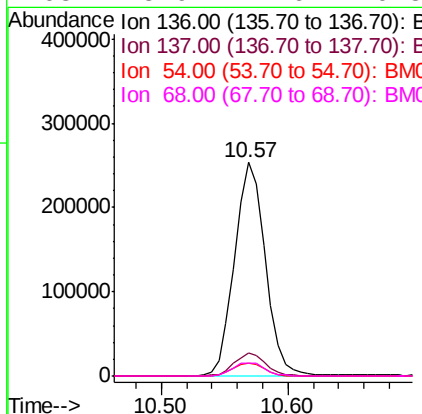
Tot Ion	Ratio	Lower	Upper
99	100		
42	14.6	14.2	21.2
71	45.1	40.3	60.5

Instrument :
 BNA_M
 ClientSampleId :



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 10.57 min Scan# 1289
 Delta R.T. -0.02 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.6	14.4
54	5.9	5.5	8.3
68	5.9	4.6	6.8

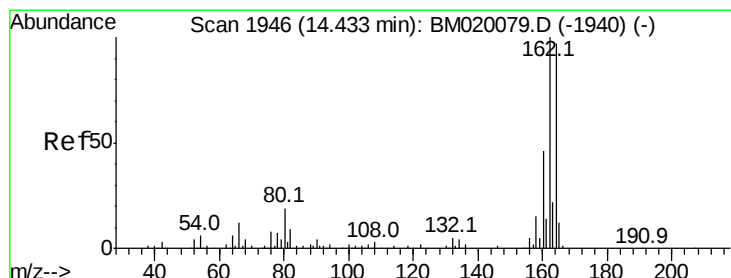
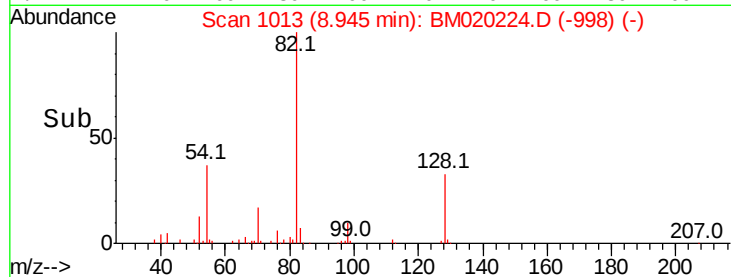
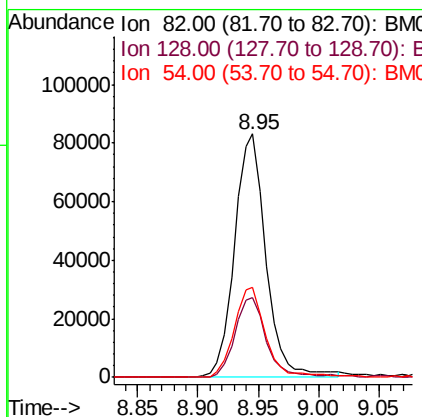
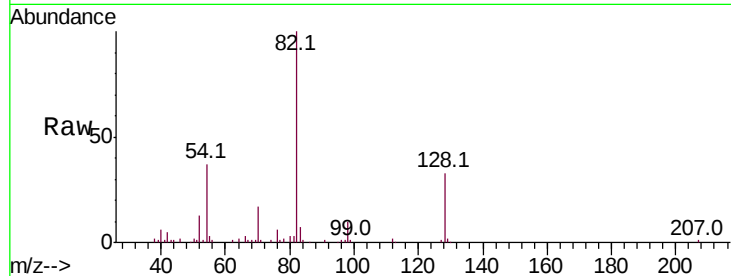




#23
Nitrobenzene-d5
Concen: 14.002 ng
RT: 8.95 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

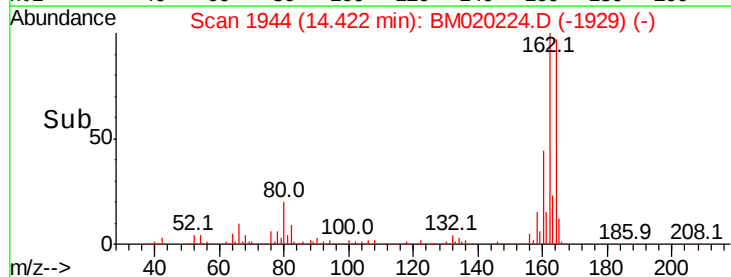
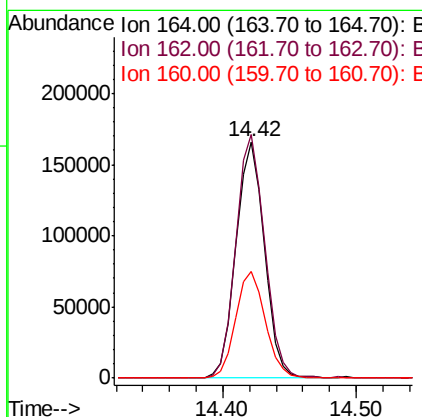
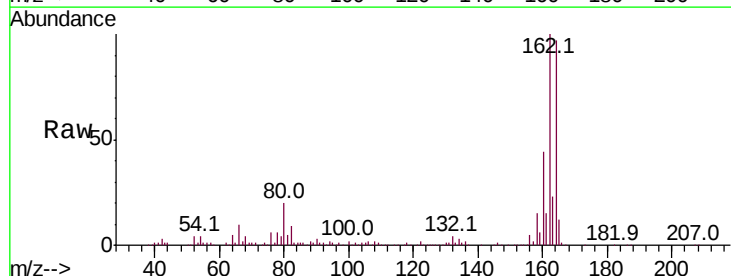
Instrument :
BNA_M
ClientSampled :

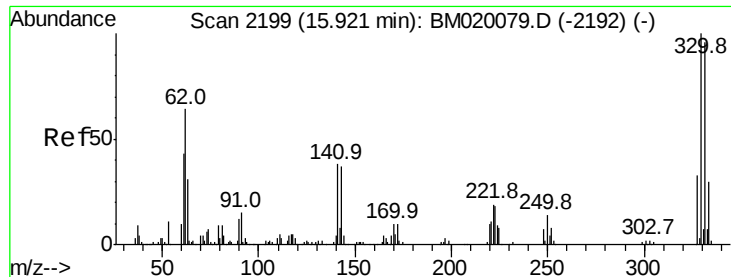
Tot Ion	82	Resp	151407
Ion	Ratio	Lower	Upper
82	100		
128	32.8	25.2	37.8
54	36.9	31.9	47.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.42 min Scan# 1944
Delta R.T. -0.01 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

Tgt Ion	164	Resp	246056
Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	44.9	37.6	56.4

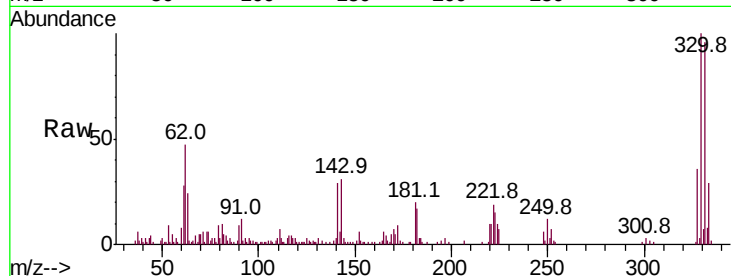




#42
 2,4,6-Tribromophenol
 Concen: 22.023 ng
 RT: 15.92 min Scan# 2198
 Delta R.T. -0.01 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.8	115.2
141	32.6	29.2	43.8

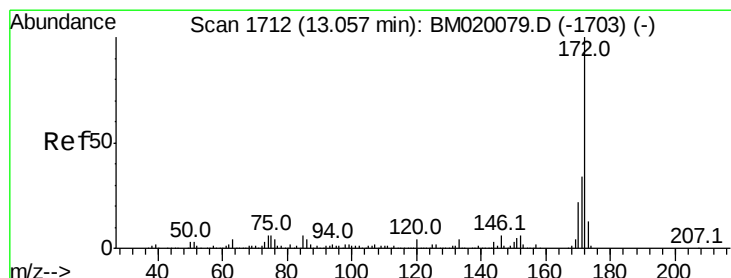
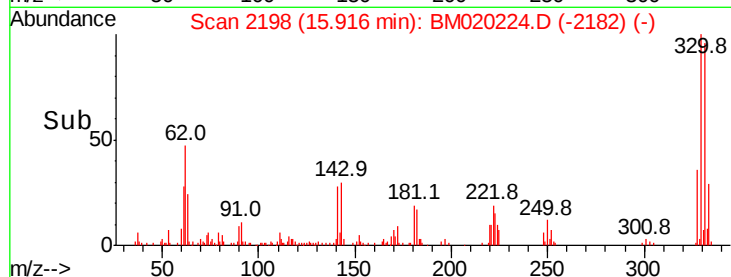
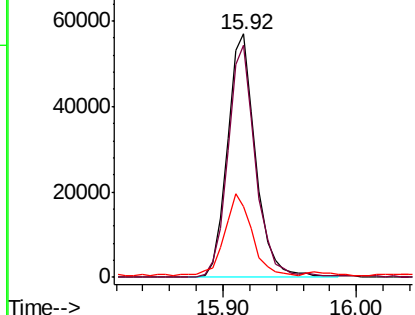


Abundance

Ion 329.80 (329.50 to 330.50): E

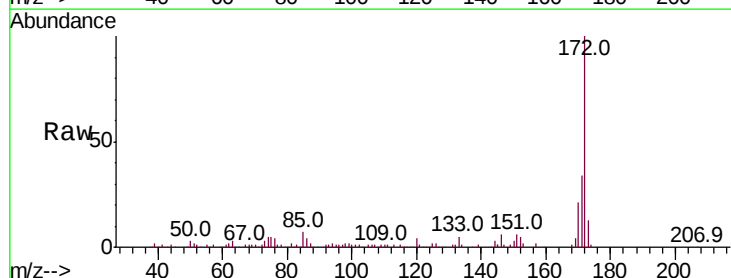
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 13.363 ng
 RT: 13.04 min Scan# 1709
 Delta R.T. -0.02 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.8	27.3	40.9
170	21.5	17.9	26.9

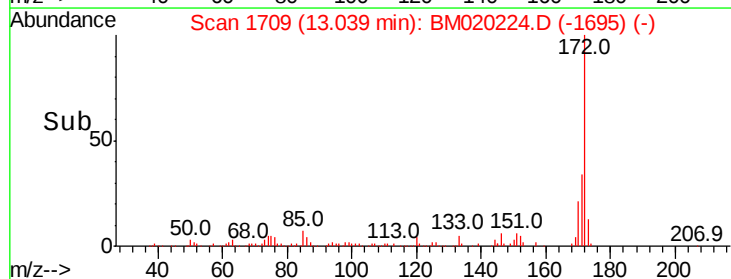
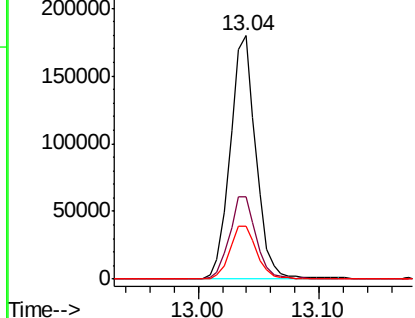


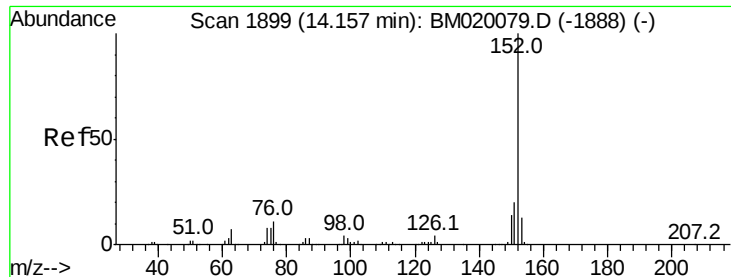
Abundance

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: 3.590 ng

RT: 14.15 min Scan# 1897

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

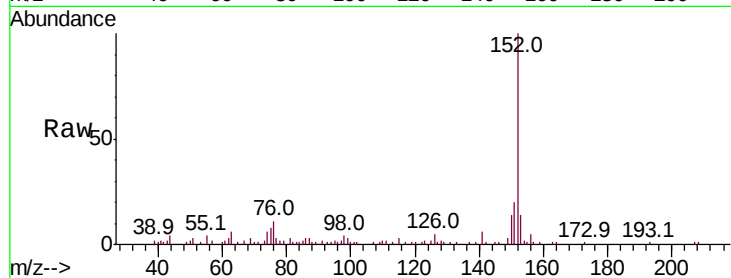
Tot Ion:152 Resp: 92907

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	14.3	10.6	16.0

152 100

151 20.2 16.2 24.2

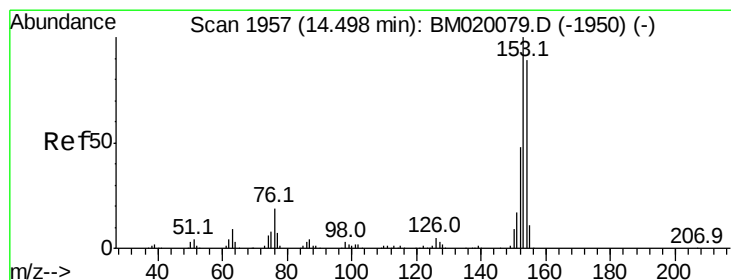
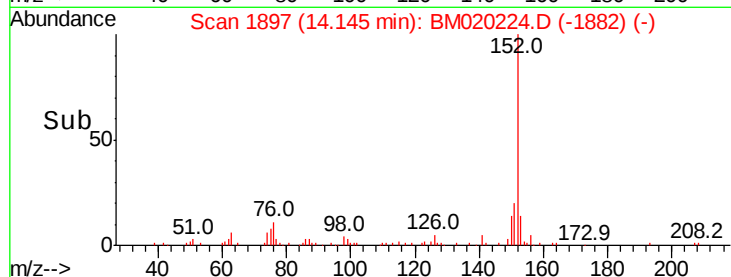
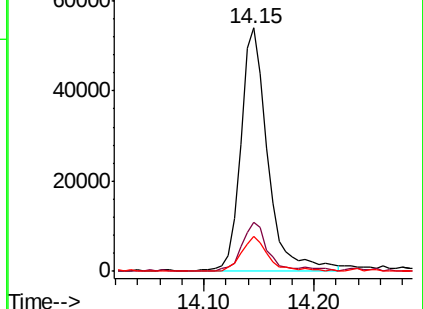
153 14.3 10.6 16.0



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



#52

Acenaphthene

Concen: 2.461 ng

RT: 14.49 min Scan# 1955

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

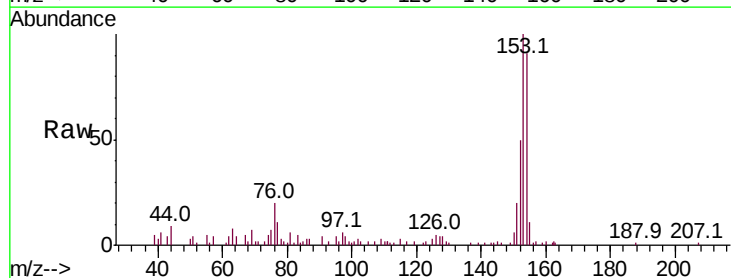
Tgt Ion:154 Resp: 36520

Ion	Ratio	Lower	Upper
154	100		
153	109.6	90.2	135.2
152	54.4	43.0	64.4

154 100

153 109.6 90.2 135.2

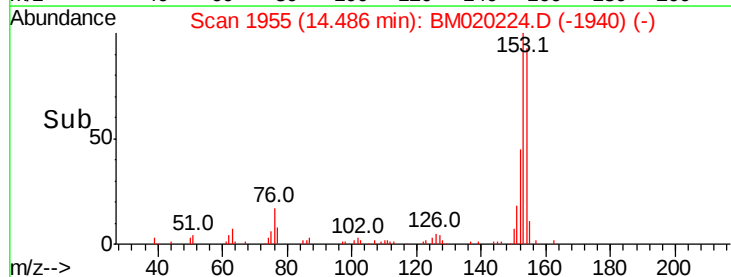
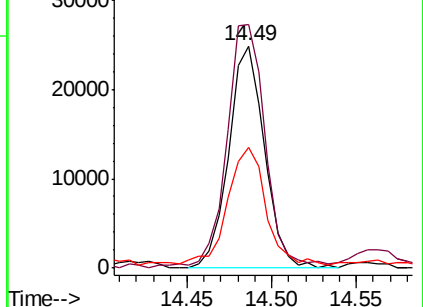
152 54.4 43.0 64.4

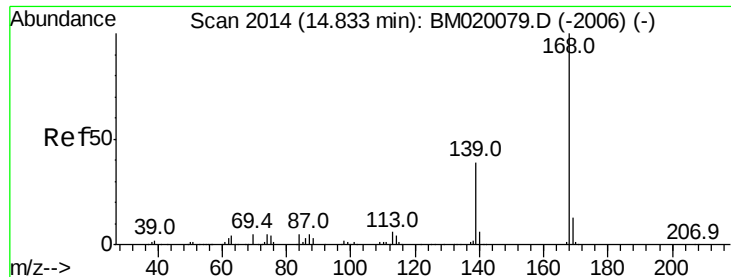


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

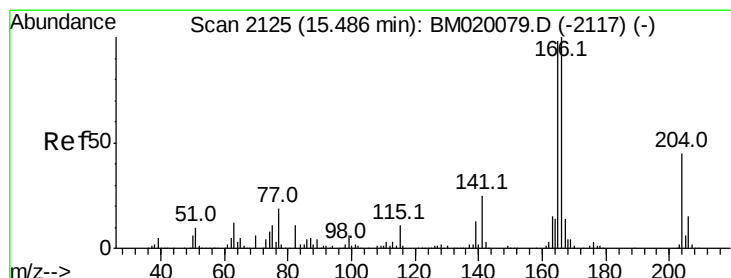
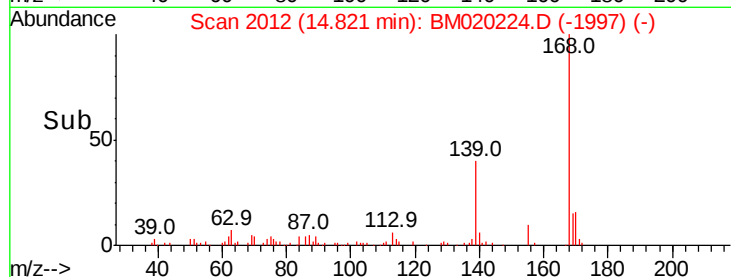
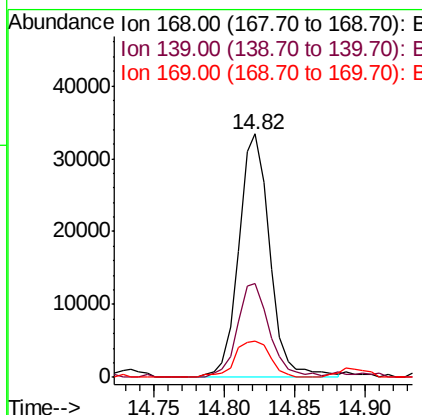
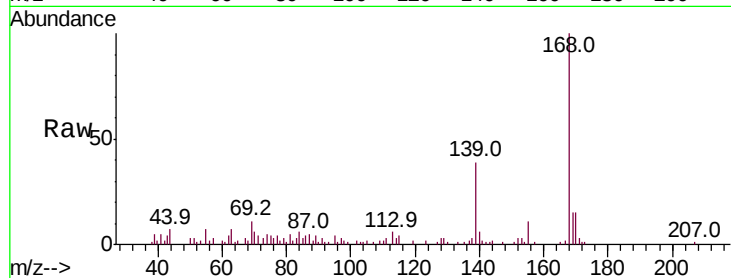




#55
Dibenzofuran
Concen: 2.052 ng
RT: 14.82 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

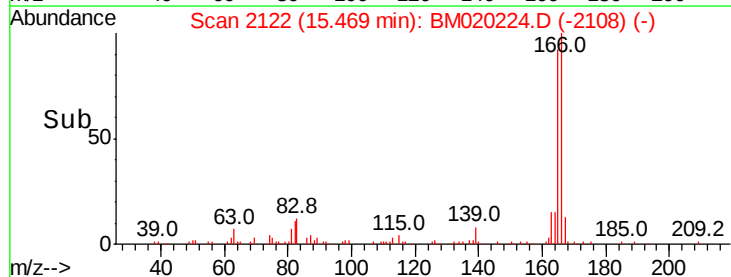
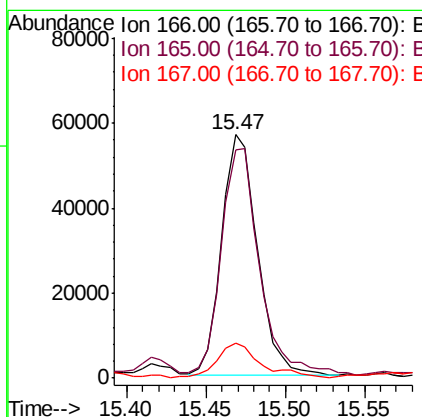
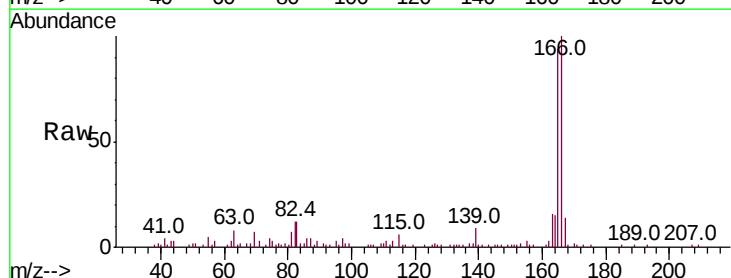
Instrument :
BNA_M
ClientSampled :

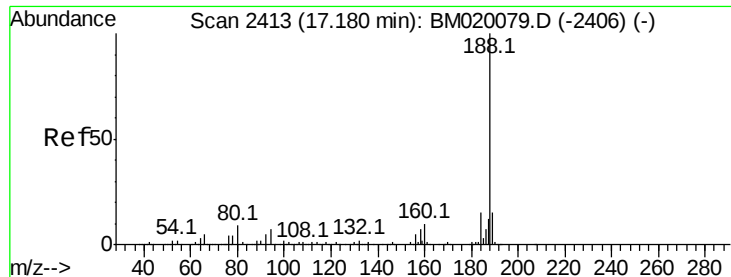
Tot Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.1	46.7
169	14.7	10.6	16.0



#58
Fluorene
Concen: 4.301 ng
RT: 15.47 min Scan# 2122
Delta R.T. -0.02 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.7	78.2	117.2
167	14.2	11.0	16.4

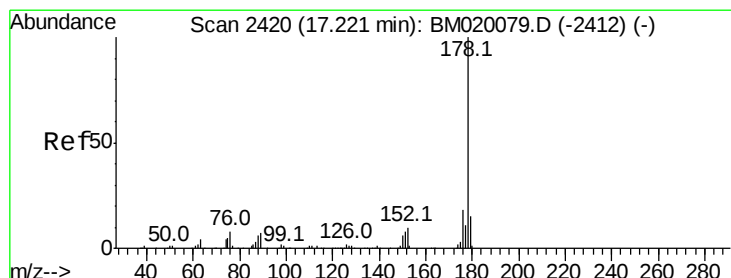
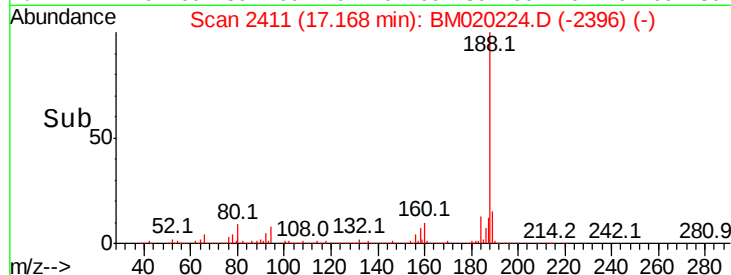
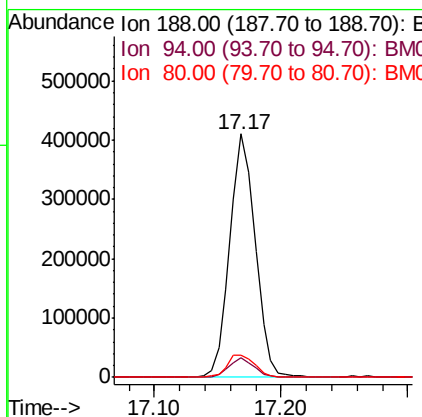
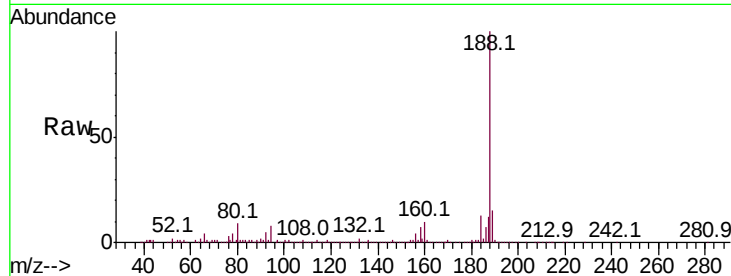




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.17 min Scan# 2411
 Delta R.T. -0.01 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

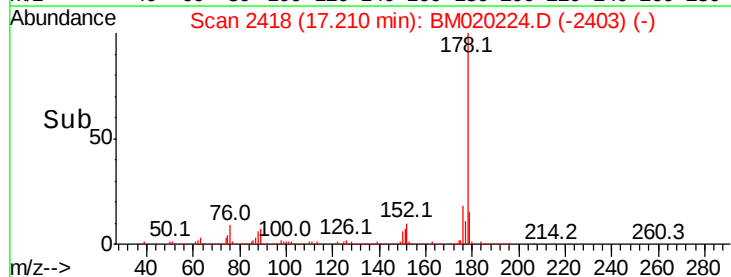
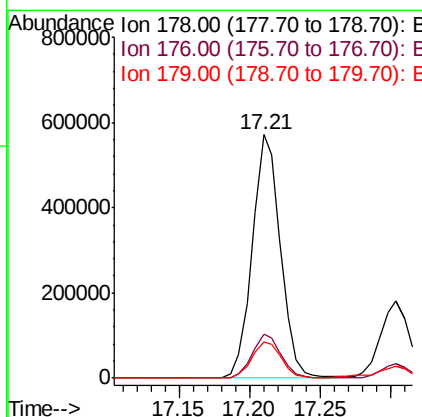
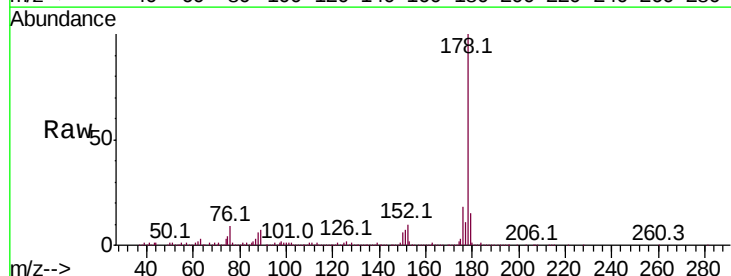
Instrument :
 BNA_M
 ClientSampled :

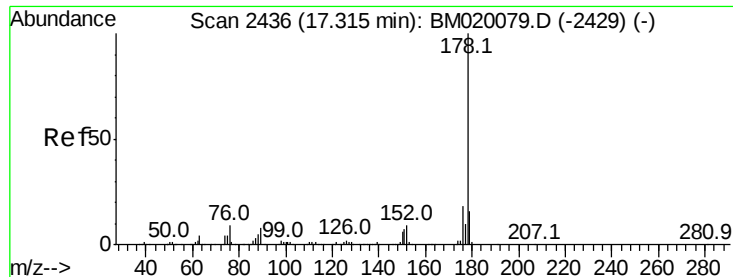
Tot Ion:188 Resp: 570984
 Ion Ratio Lower Upper
 188 100
 94 8.0 5.8 8.6
 80 9.0 7.4 11.2



#71
 Phenanthrene
 Concen: 25.480 ng
 RT: 17.21 min Scan# 2418
 Delta R.T. -0.01 min
 Lab File: BM020224.D
 Acq: 09 May 2019 19:15

Tgt Ion:178 Resp: 803106
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.6 21.8
 179 15.0 12.4 18.6





#72

Anthracene

Concen: 7.806 ng

RT: 17.30 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampled :

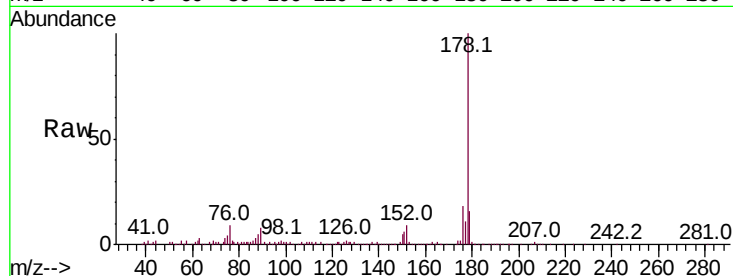
Tot Ion:178 Resp: 246000

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

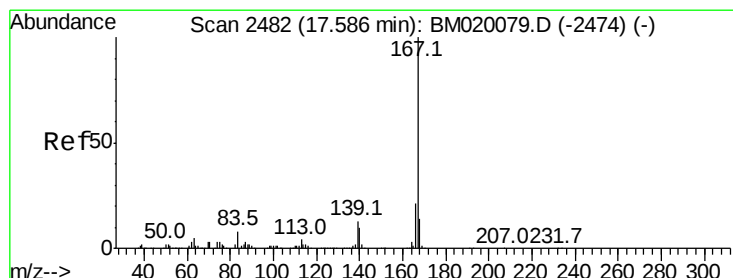
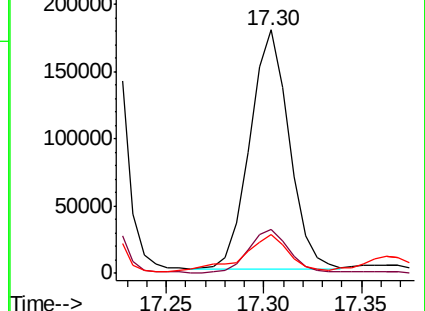
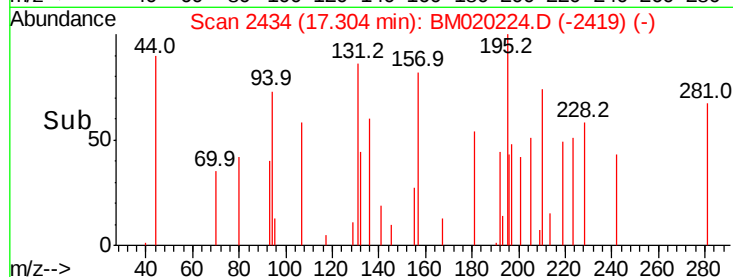
179 15.8 12.4 18.6



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



#73

Carbazole

Concen: 2.271 ng

RT: 17.57 min Scan# 2480

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

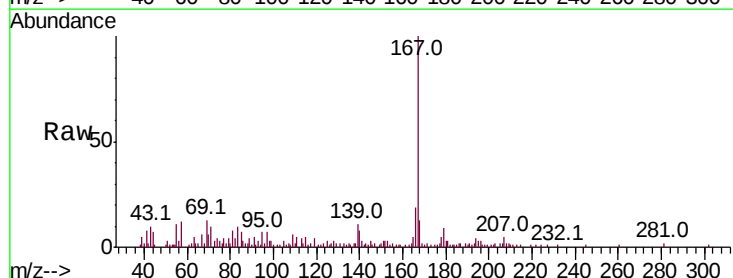
Tgt Ion:167 Resp: 64584

Ion Ratio Lower Upper

167 100

166 19.1 17.0 25.6

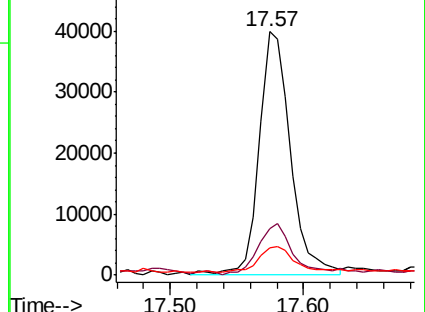
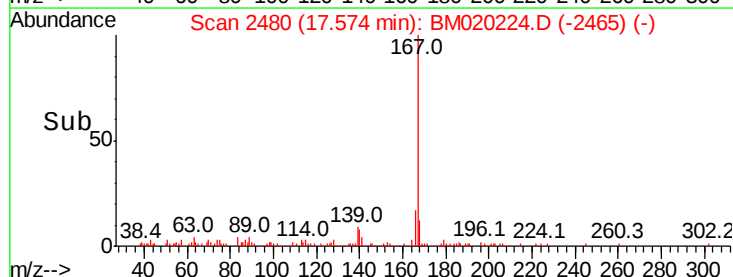
139 11.2 10.6 16.0

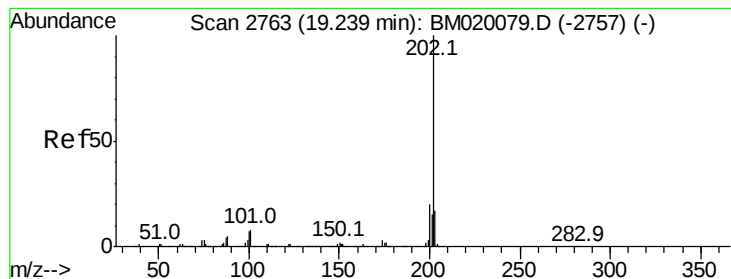


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 32.718 ng

RT: 19.23 min Scan# 2762

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

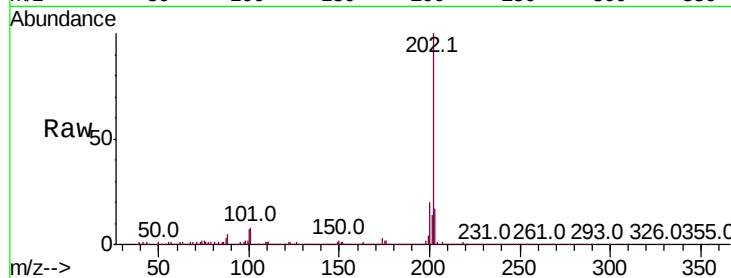
Tot Ion:202 Resp: 1304760

Ion Ratio Lower Upper

202 100

101 8.4 0.0 28.4

203 17.0 0.0 37.4

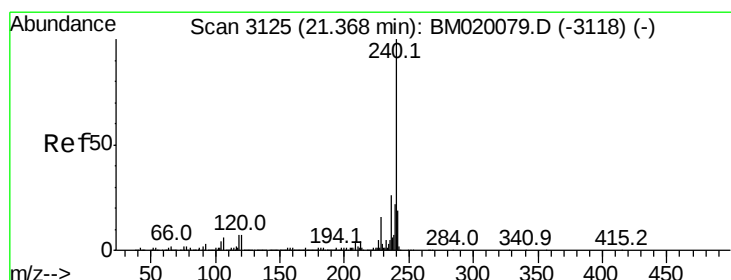
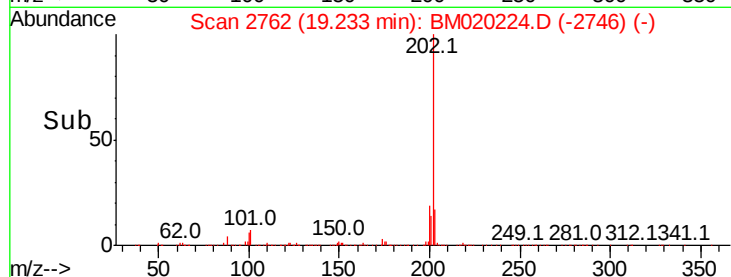
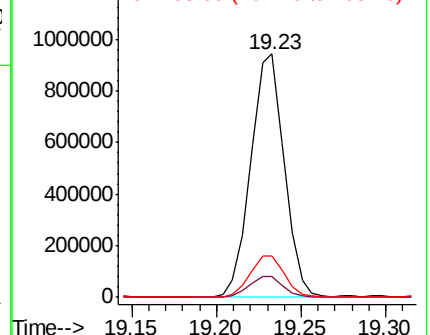


Abundance

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: BM020224.D

Acq: 09 May 2019 19:15

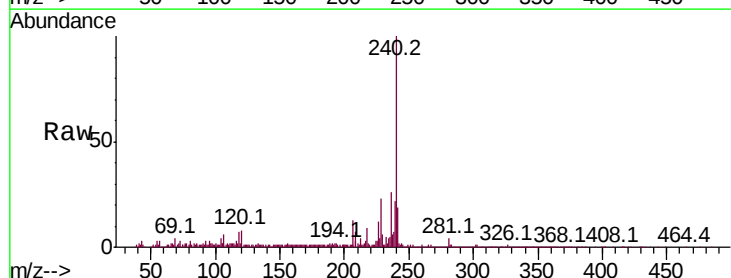
Tgt Ion:240 Resp: 638801

Ion Ratio Lower Upper

240 100

120 7.9 5.6 8.4

236 25.6 20.9 31.3

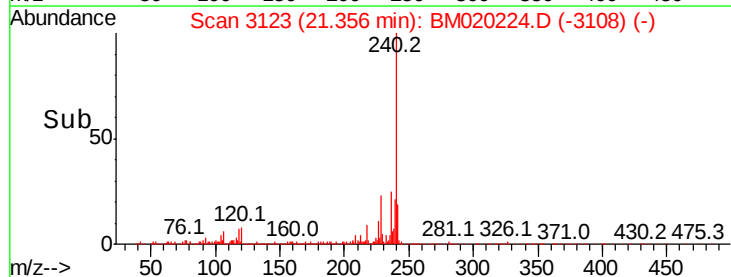
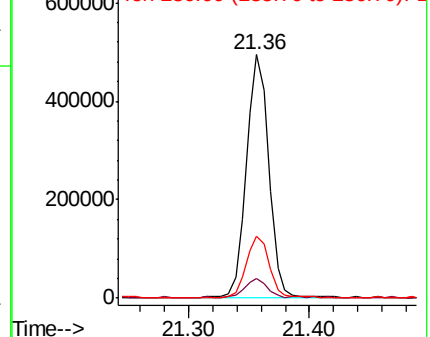


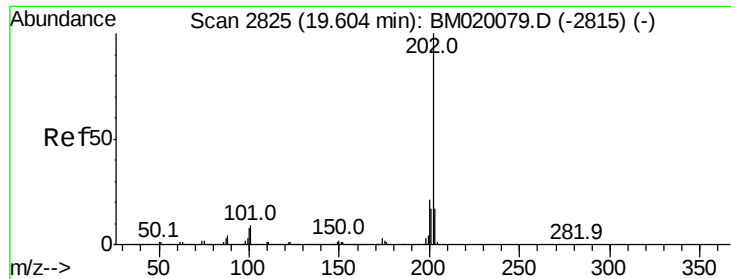
Abundance

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

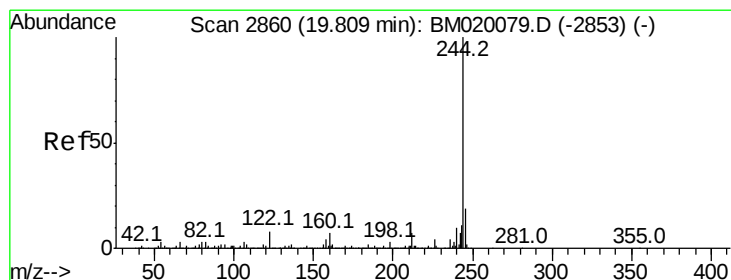
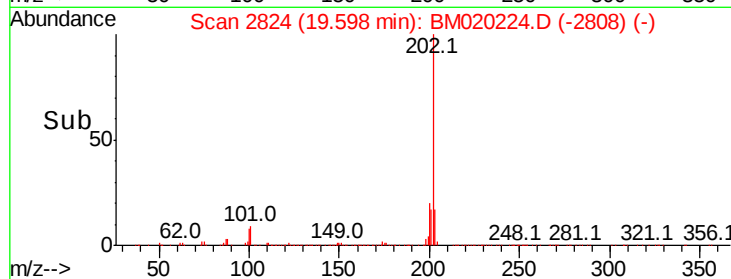
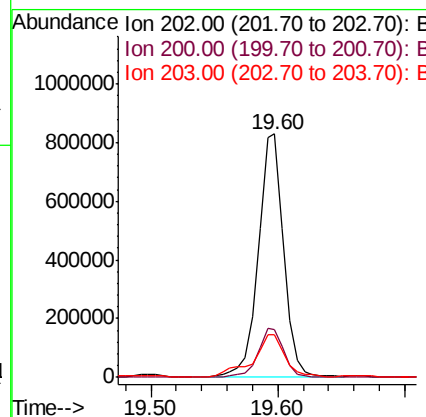
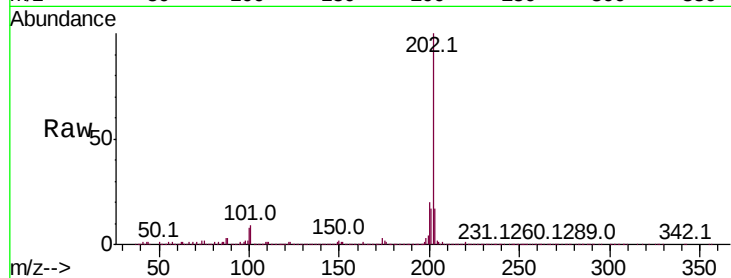




#78
Pvrene
Concen: 26.920 ng
RT: 19.60 min Scan# 2824
Delta R.T. -0.01 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

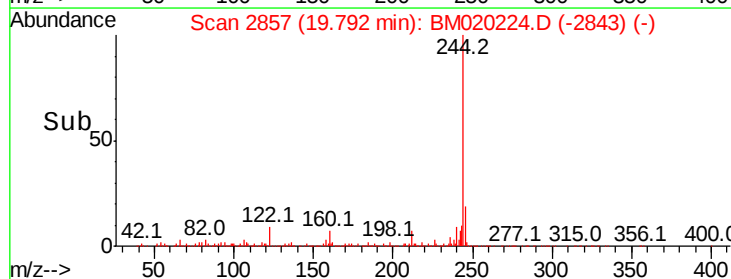
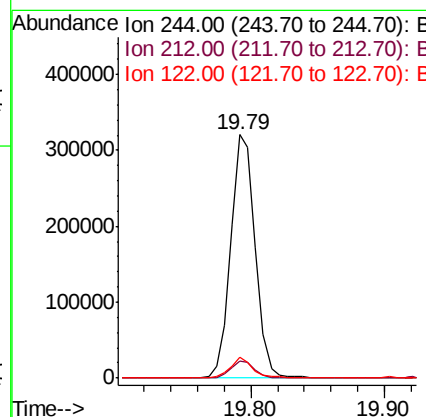
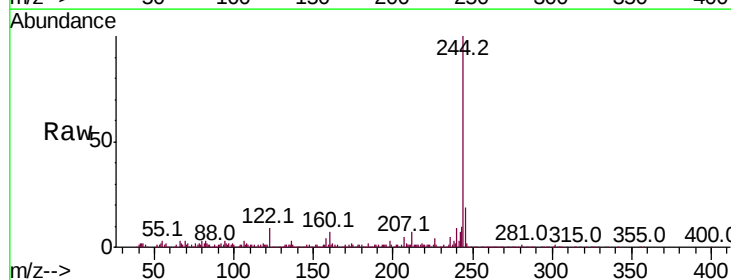
Instrument :
BNA_M
ClientSampleId :

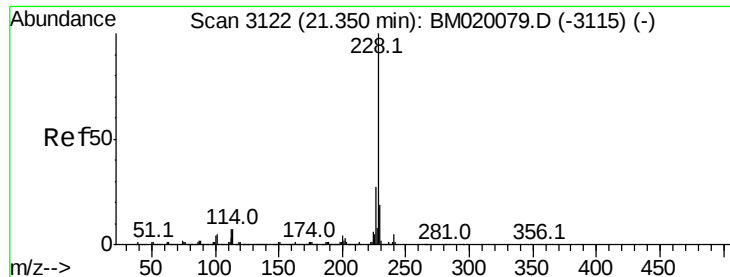
Tot Ion:202 Resp: 1154559
Ion Ratio Lower Upper
202 100
200 19.9 16.5 24.7
203 17.3 13.9 20.9



#79
Terphenyl-d14
Concen: 11.239 ng
RT: 19.79 min Scan# 2857
Delta R.T. -0.02 min
Lab File: BM020224.D
Acq: 09 May 2019 19:15

Tgt Ion:244 Resp: 411601
Ion Ratio Lower Upper
244 100
212 7.1 5.7 8.5
122 8.7 6.2 9.2





#81

Benzo(a)anthracene

Concen: 15.237 ng

RT: 21.34 min Scan# 3120

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

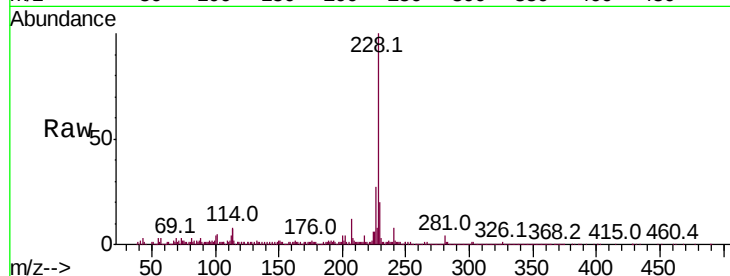
Tot Ion:228 Resp: 682594

Ion Ratio Lower Upper

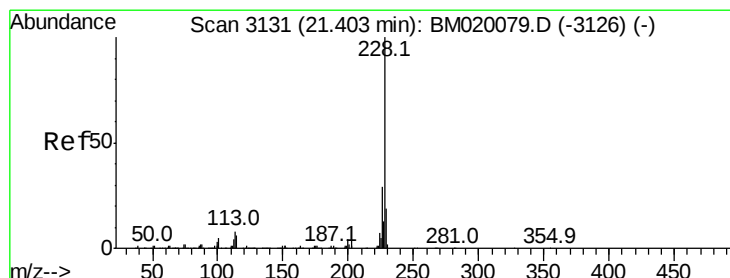
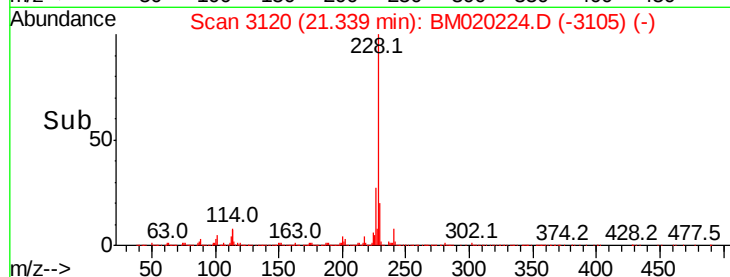
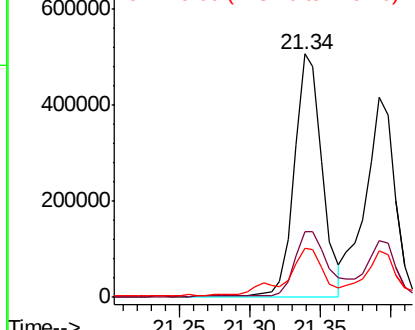
228 100

226 27.0 21.3 31.9

229 20.3 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: 13.747 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

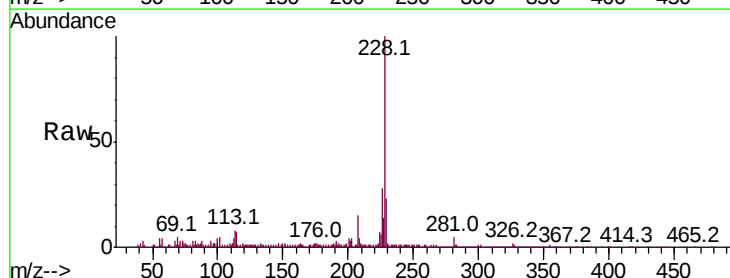
Tgt Ion:228 Resp: 597250

Ion Ratio Lower Upper

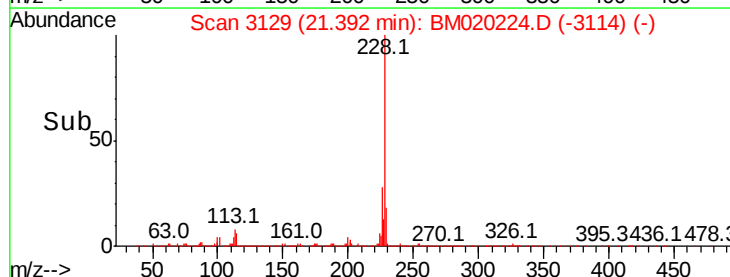
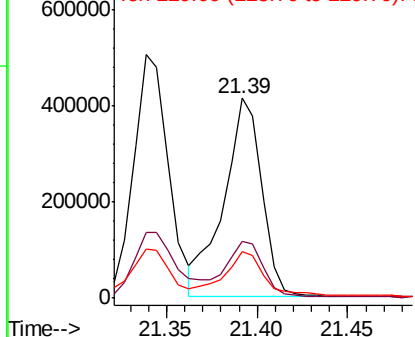
228 100

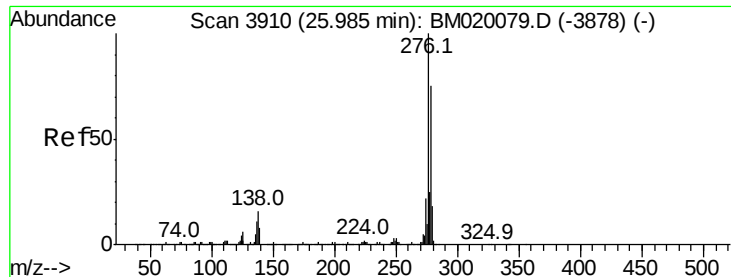
226 28.5 23.0 34.6

229 23.1 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: 8.661 ng

RT: 25.97 min Scan# 3908

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

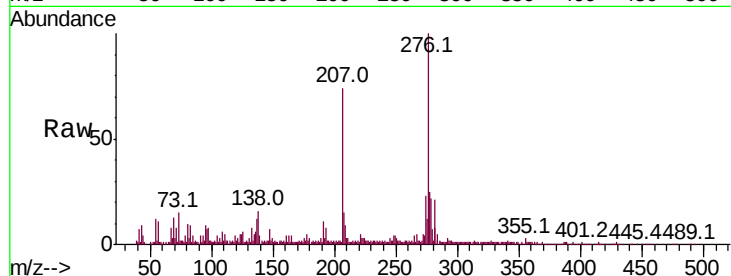
Tot Ion:276 Resp: 447611

Ion Ratio Lower Upper

276 100

138 13.7 0.0 0.0#

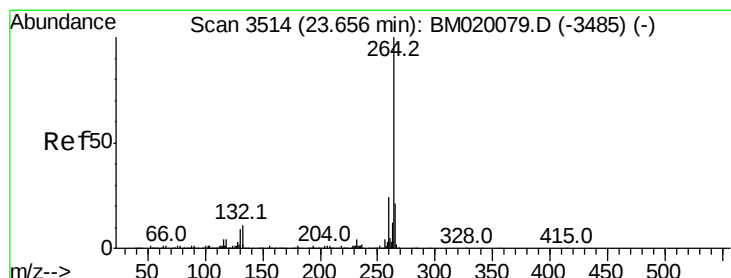
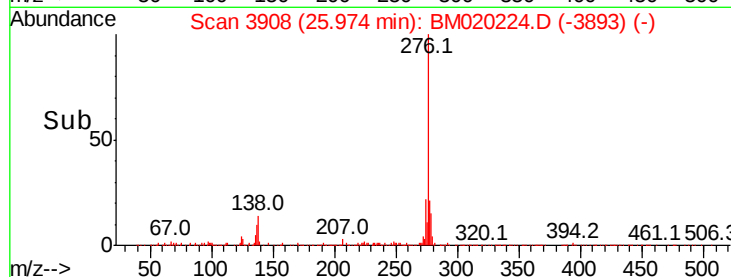
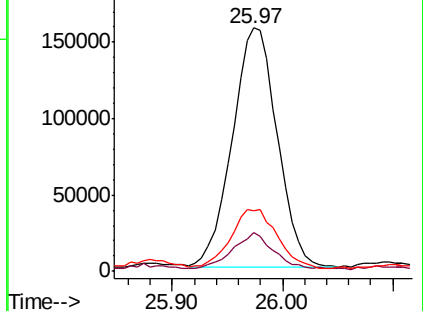
277 25.3 0.0 0.0#



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: 23.65 min Scan# 3513

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

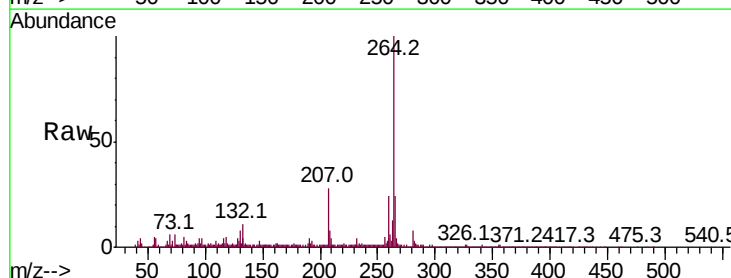
Tgt Ion:264 Resp: 797166

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

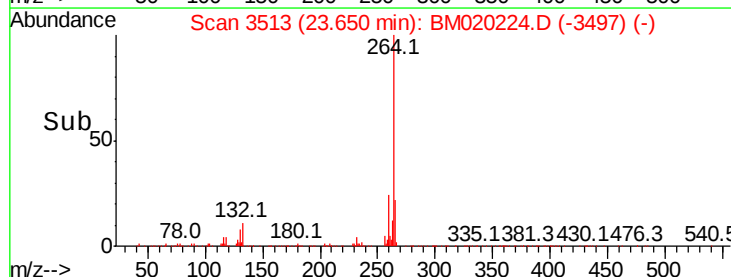
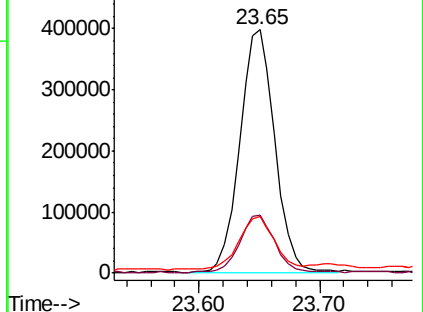
265 23.6 16.9 25.3

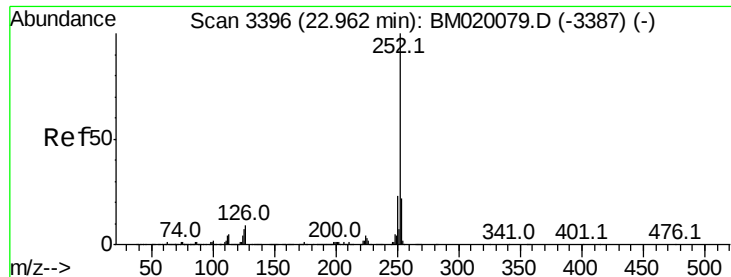


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 16.521 ng

RT: 22.96 min Scan# 3395

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampled :

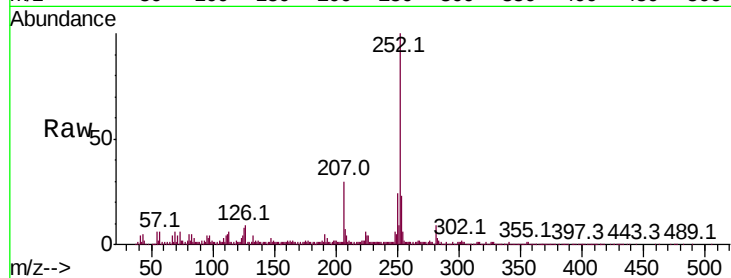
Tot Ion:252 Resp: 869692

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

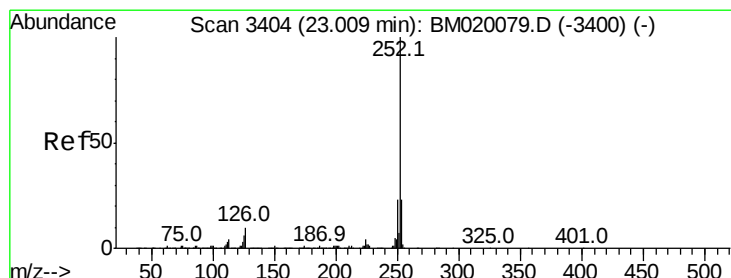
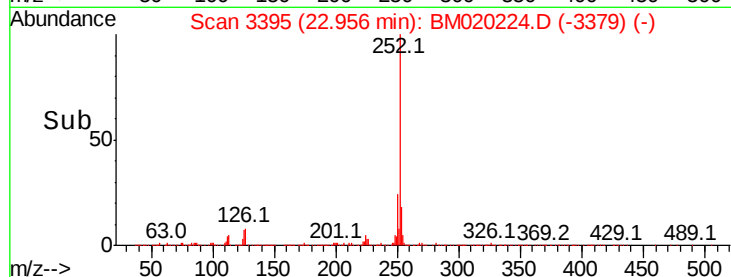
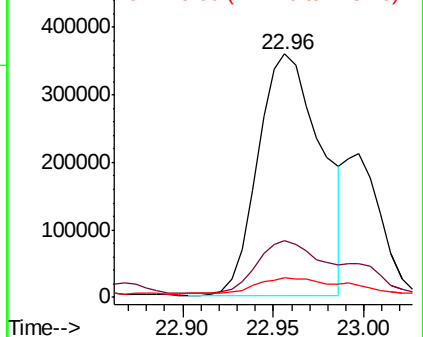
125 8.0 5.4 8.2



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: 17.952 ng

RT: 22.96 min Scan# 3395

Delta R.T. -0.05 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

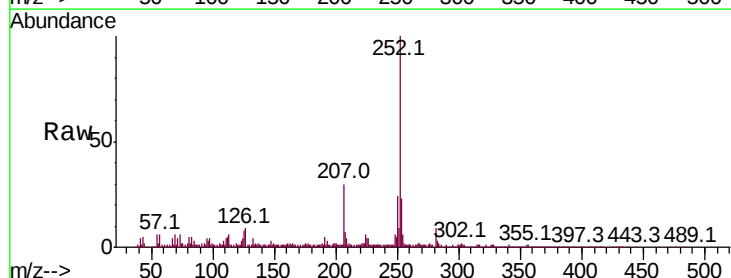
Tgt Ion:252 Resp: 862008

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

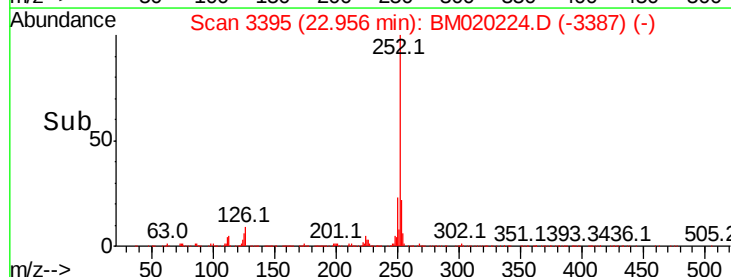
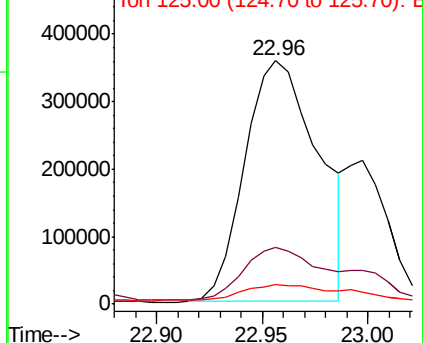
125 8.0 5.4 8.0

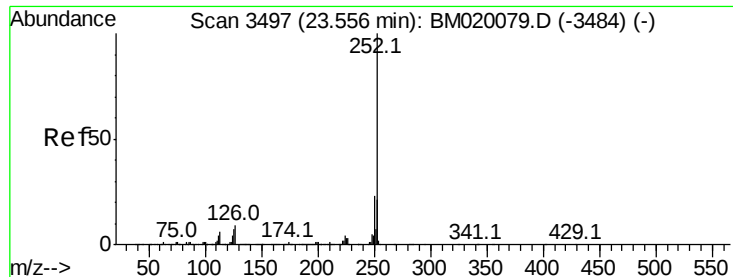


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 13.384 ng

RT: 23.55 min Scan# 3496

Delta R.T. -0.01 min

Lab File: BM020224.D

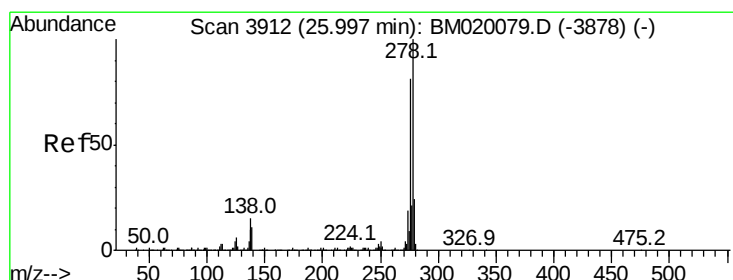
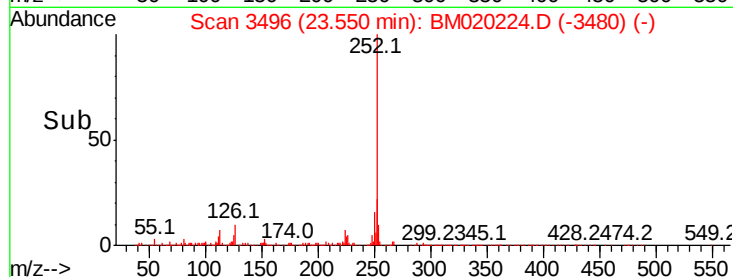
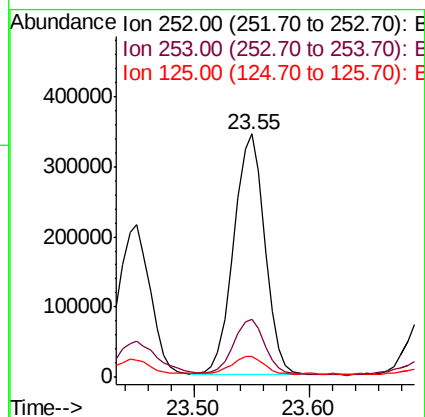
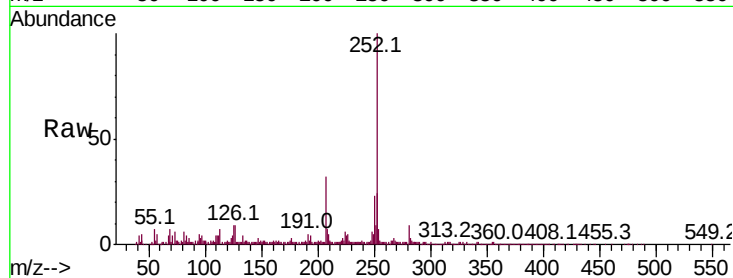
Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

Tot Ion:	252	Resp:	639960
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	8.8	5.5	8.3#



#91

Dibenzo(a,h)anthracene

Concen: 2.341 ng

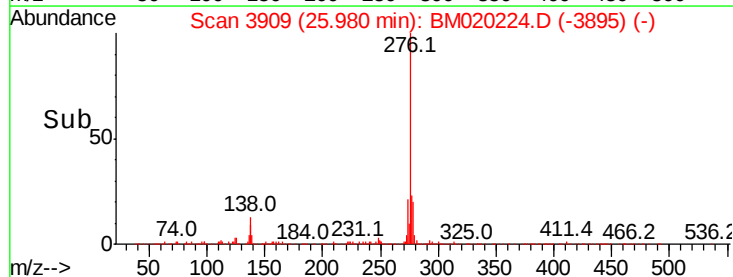
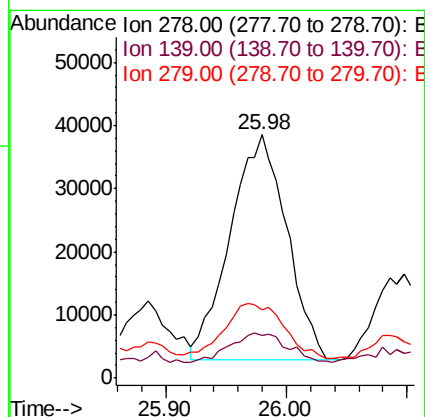
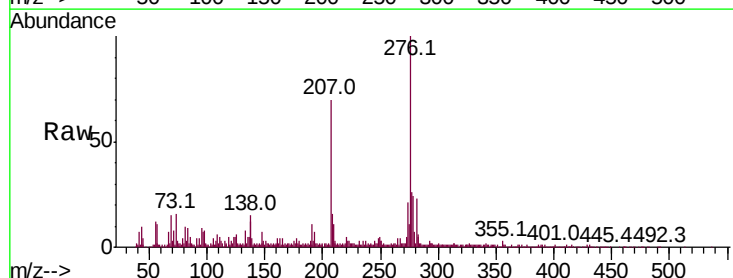
RT: 25.98 min Scan# 3909

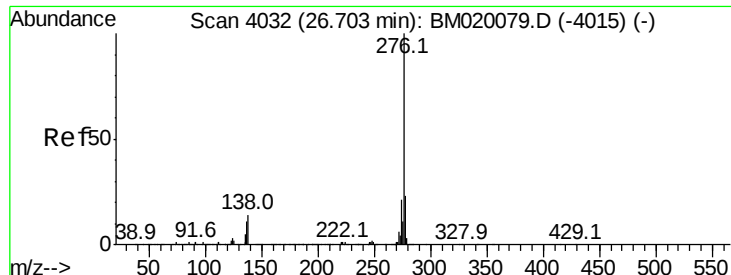
Delta R.T. -0.02 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Tgt Ion:	278	Resp:	116422
Ion	Ratio	Lower	Upper
278	100		
139	17.5	8.6	13.0#
279	28.3	18.8	28.2#





#92

Benzo(a,h,i)perylene

Concen: 9.123 ng

RT: 26.69 min Scan# 4030

Delta R.T. -0.01 min

Lab File: BM020224.D

Acq: 09 May 2019 19:15

Instrument :

BNA_M

ClientSampleId :

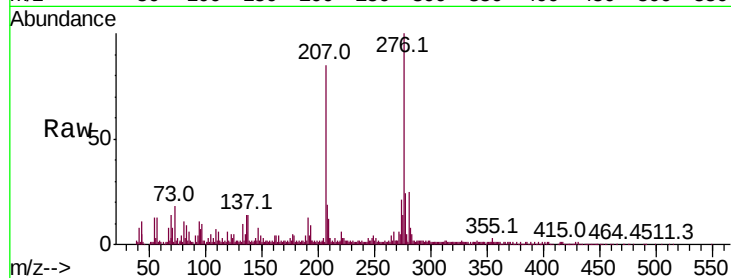
Tot Ion: 276 Resp: 430700

Ion Ratio Lower Upper

276 100

277 24.4 18.4 27.6

138 13.8 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

