

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
 Data File : BM024702.D
 Acq On : 03 Feb 2020 16:59
 Operator : CG/JU
 Sample : L1351-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Feb 04 02:59:42 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	223669	20.00	ng	-0.02
21) Naphthalene-d8	10.18	136	822309	20.00	ng	-0.02
39) Acenaphthene-d10	14.07	164	546180	20.00	ng	-0.02
64) Phenanthrene-d10	16.83	188	1215334	20.00	ng	-0.02
76) Chrysene-d12	21.04	240	1279049	20.00	ng	-0.02
87) Perylene-d12	23.16	264	1508961	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.07	112	1047631	89.08	ng	-0.01
7) Phenol-d6	6.62	99	1303036	80.43	ng	-0.02
23) Nitrobenzene-d5	8.56	82	841060	50.16	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	803187	90.40	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	2057646	51.22	ng	-0.02
79) Terphenyl-d14	19.49	244	3638693	53.11	ng	-0.02

Target Compounds

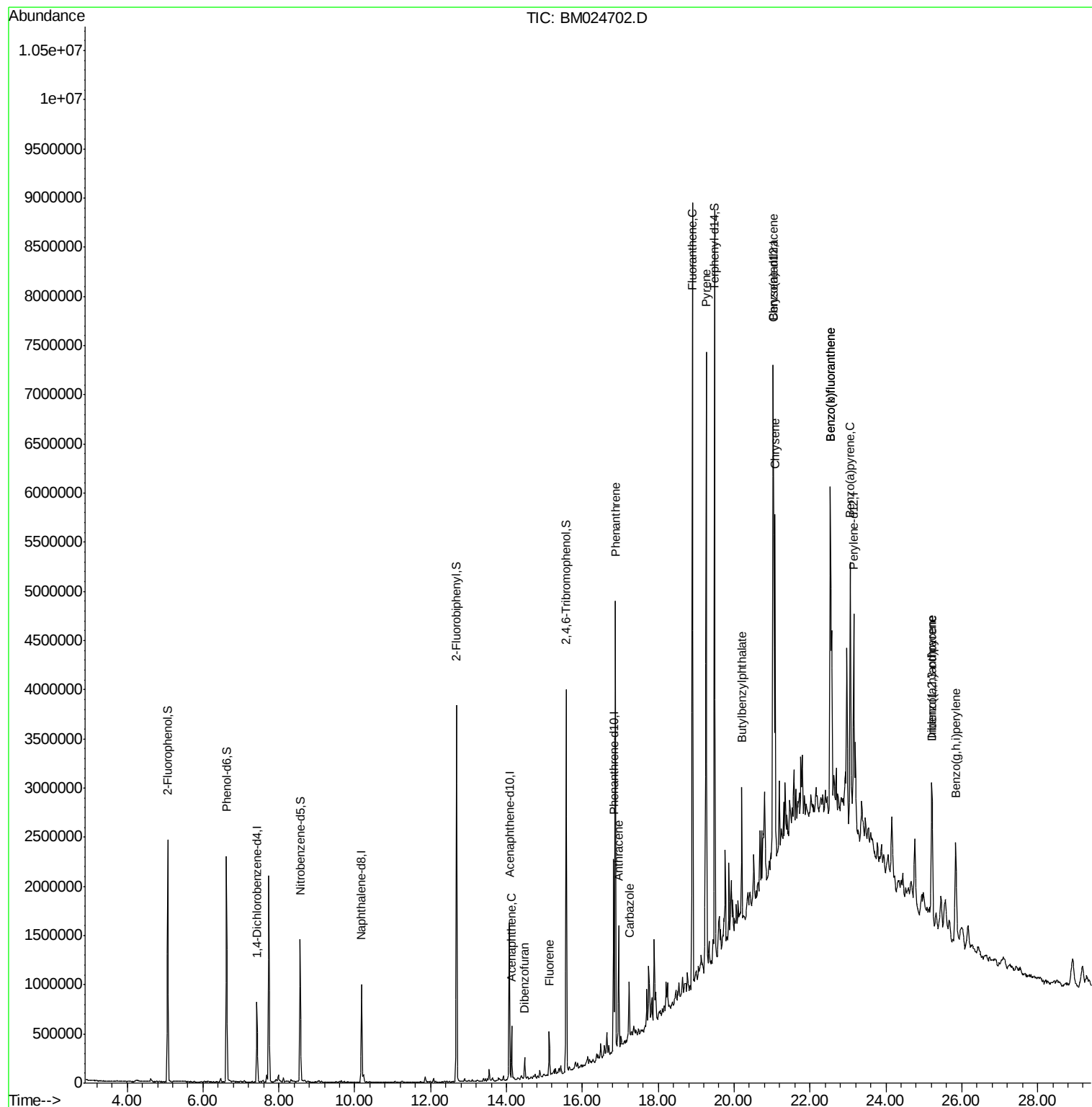
						Qvalue
52) Acenaphthene	14.14	154	200108	6.456	ng	99
55) Dibenzofuran	14.47	168	141471	2.798	ng	94
58) Fluorene	15.13	166	200271	4.714	ng	99
71) Phenanthrene	16.87	178	2815468	42.780	ng	99
72) Anthracene	16.96	178	764440	11.871	ng	99
73) Carbazole	17.23	167	384638	6.561	ng	99
75) Fluoranthene	18.90	202	4874482	59.343	ng	99
78) Pyrene	19.26	202	3979474	47.195	ng	99
80) Butylbenzylphthalate	20.20	149	409253	11.567	ng	94
81) Benzo(a)anthracene	21.03	228	2378083	26.788	ng	98
83) Chrysene	21.08	228	2090995	24.685	ng	98
86) Indeno(1,2,3-cd)pyrene	25.21	276	1280846	13.873	ng	97
88) Benzo(b)fluoranthene	22.54	252	3741982	38.235	ng	97
89) Benzo(k)fluoranthene	22.54	252	3730526	39.052	ng	# 96
90) Benzo(a)pyrene	23.06	252	1916329	21.537	ng	# 95
91) Dibenzo(a,h)anthracene	25.23	278	332162	3.933	ng	# 94
92) Benzo(a,h,i)perylene	25.84	276	1189929	15.517	ng	99

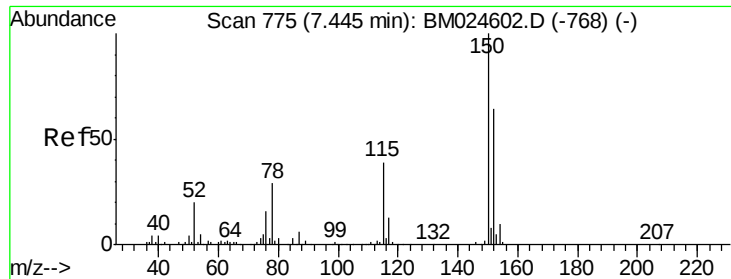
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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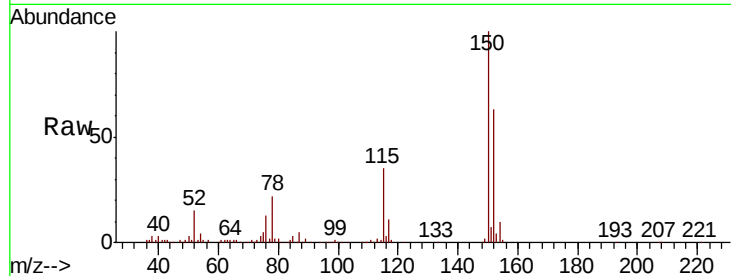


#1

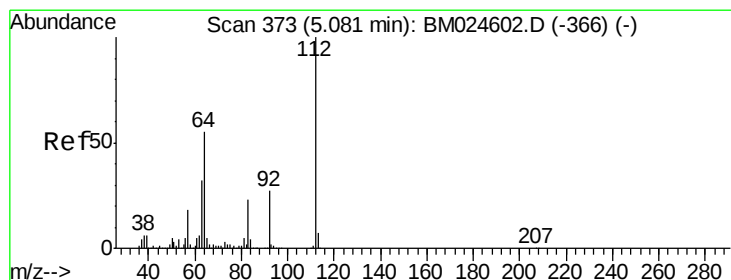
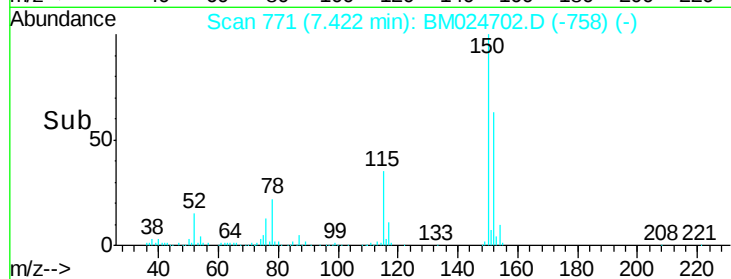
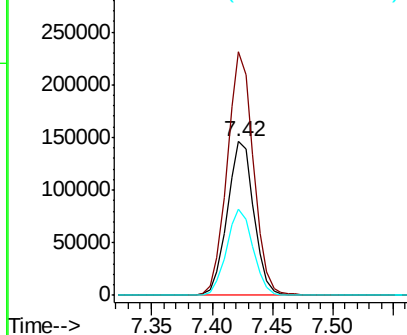
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.42 min Scan# 771
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Instrument :
BNA_M
ClientSampleId :

Tot Ion	152	Resp	223669
Ion Ratio	Lower	Upper	
152	100		
150	158.6	124.2	186.4
115	56.2	48.6	72.8



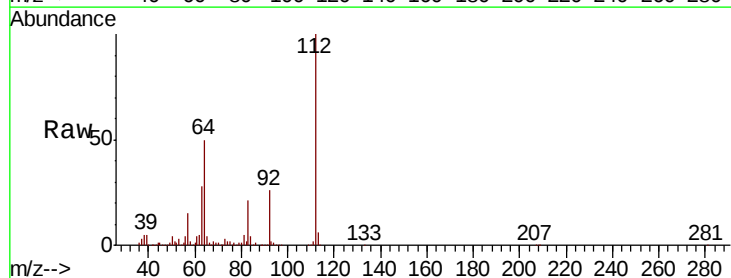
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



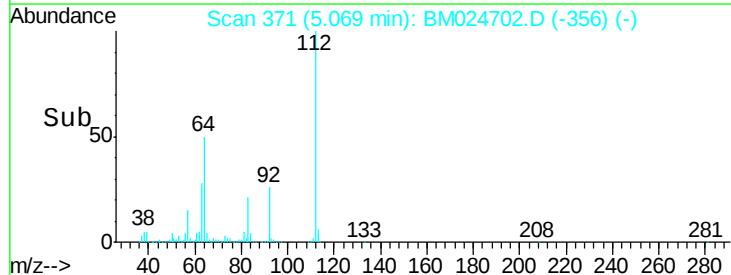
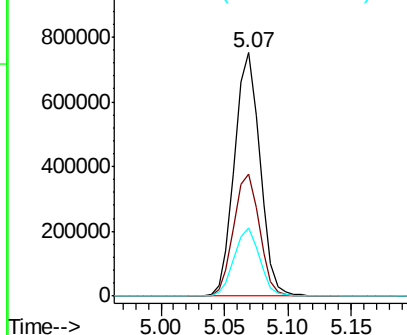
#5

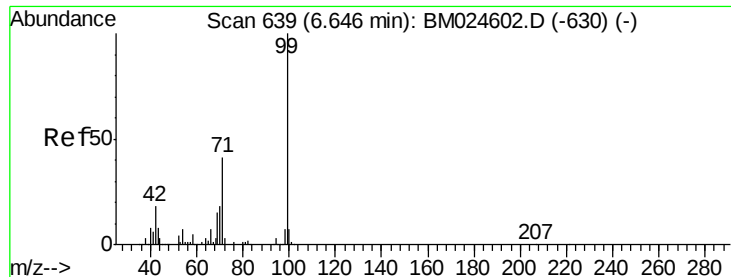
2-Fluorophenol
Concen: 89.075 ng
RT: 5.07 min Scan# 371
Delta R.T. -0.01 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion	112	Resp	1047631
Ion Ratio	Lower	Upper	
112	100		
64	49.9	44.2	66.4
63	27.9	25.9	38.9



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: 80.425 ng

RT: 6.62 min Scan# 635

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

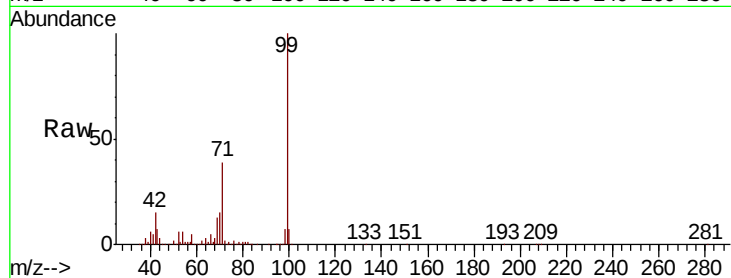
Tot Ion: 99 Resp: 1303036

Ion Ratio Lower Upper

99 100

42 14.6 14.1 21.1

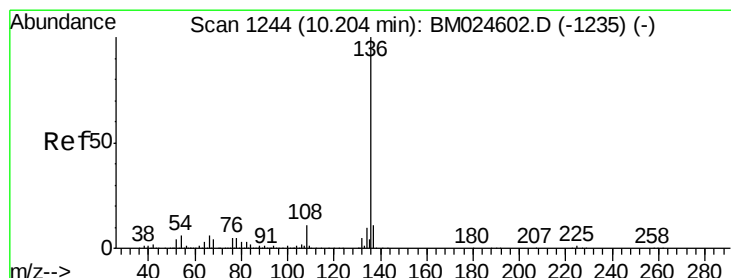
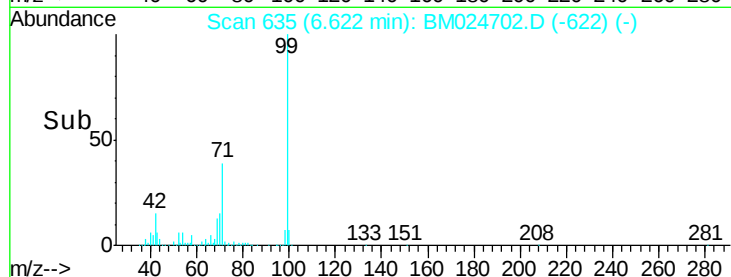
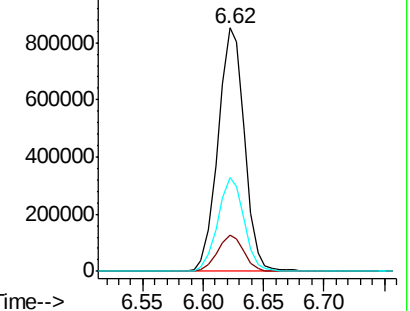
71 38.8 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BM024702.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM024702.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM024702.D (-630) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Tgt Ion: 136 Resp: 822309

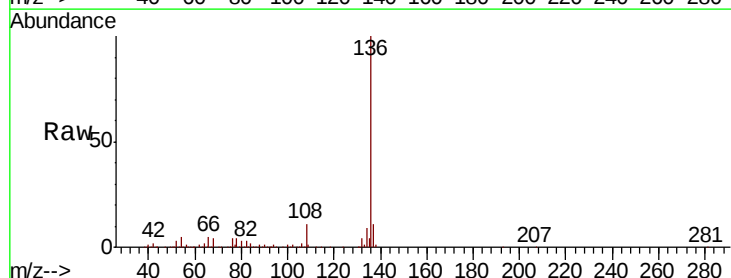
Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 5.1 4.5 6.7

68 3.7 3.4 5.0

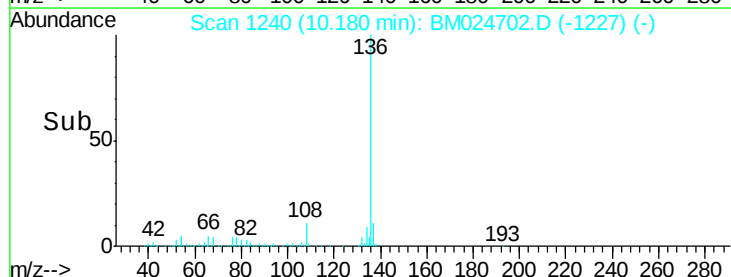
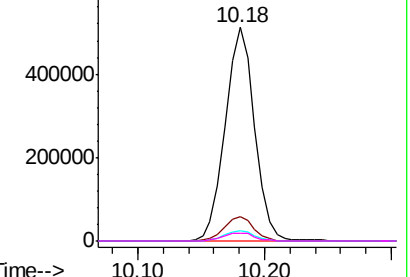


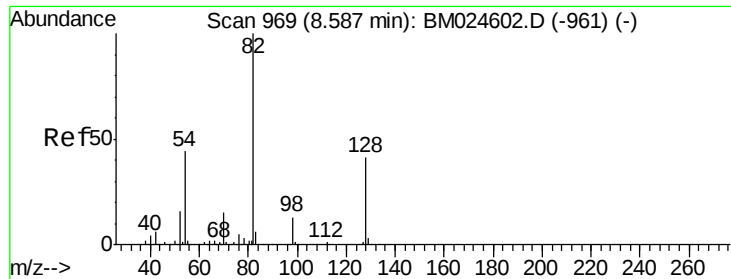
Abundance Ion 136.00 (135.70 to 136.70): BM024702.D (-1227) (-)

Ion 137.00 (136.70 to 137.70): BM024702.D (-1227) (-)

Ion 54.00 (53.70 to 54.70): BM024702.D (-1227) (-)

Ion 68.00 (67.70 to 68.70): BM024702.D (-1227) (-)

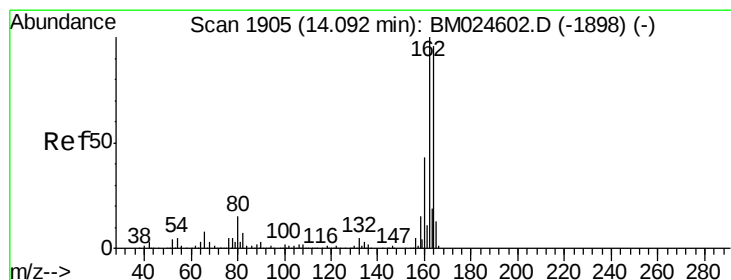
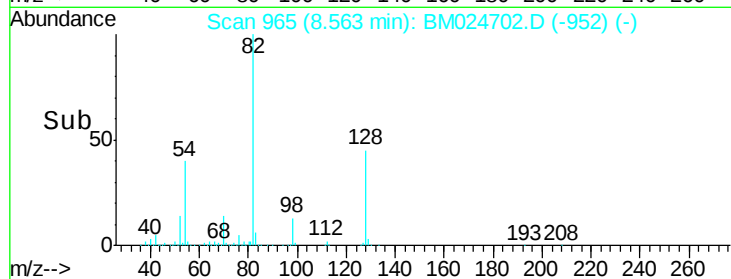
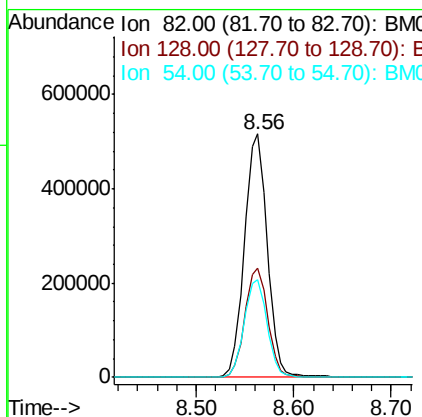
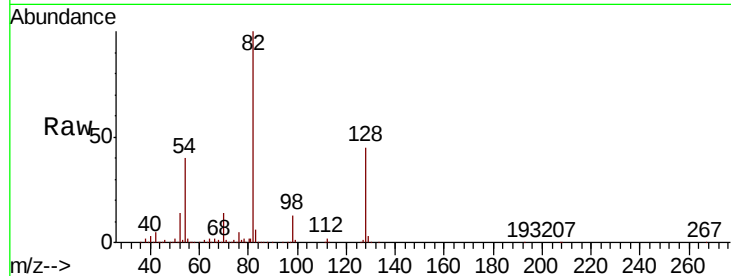




#23
 Nitrobenzene-d5
 Concen: 50.160 ng
 RT: 8.56 min Scan# 965
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

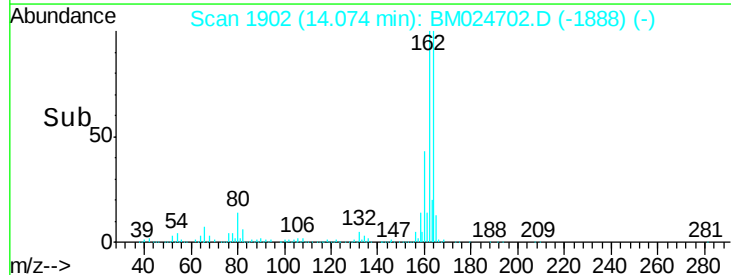
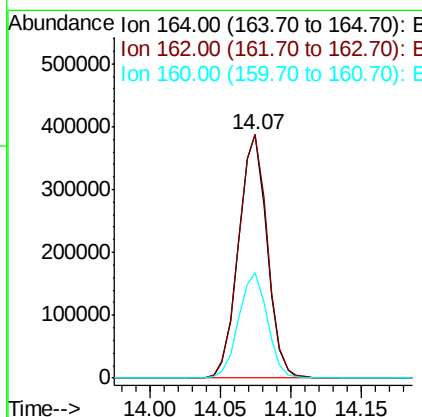
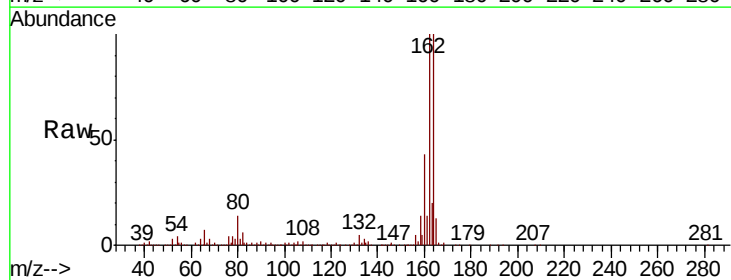
Instrument :
 BNA_M
 ClientSampleId :

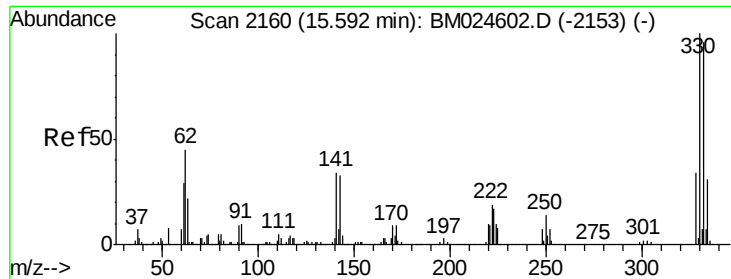
Tot Ion	82	Resp	841060
Ion Ratio	100	Lower	Upper
128	44.8	32.6	48.8
54	40.0	34.8	52.2



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.07 min Scan# 1902
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion	164	Resp	546180
Ion Ratio	100	Lower	Upper
162	100.0	82.9	124.3
160	43.4	35.5	53.3

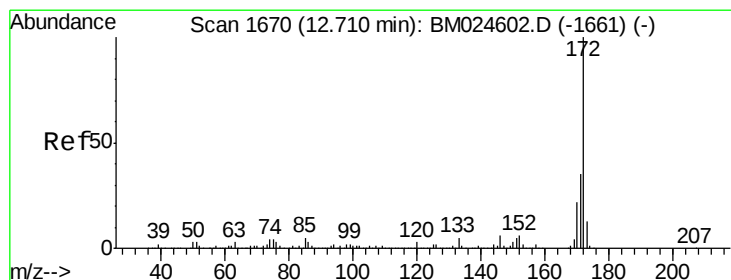
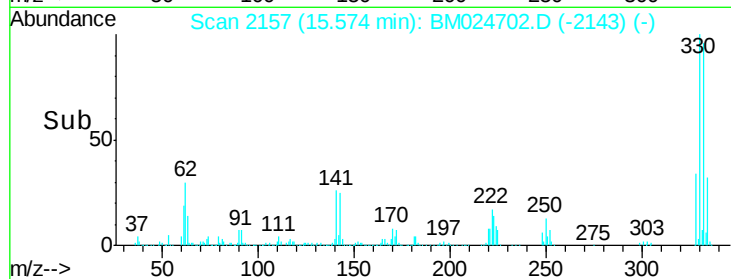
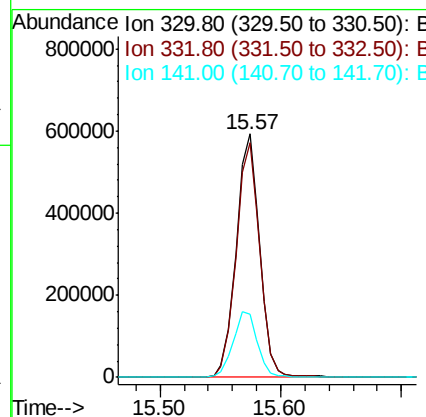
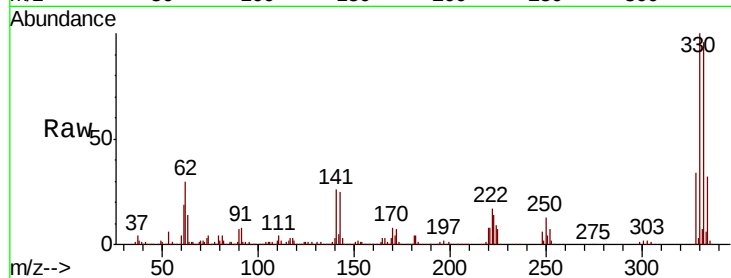




#42
 2,4,6-Tribromophenol
 Concen: 90.404 ng
 RT: 15.57 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

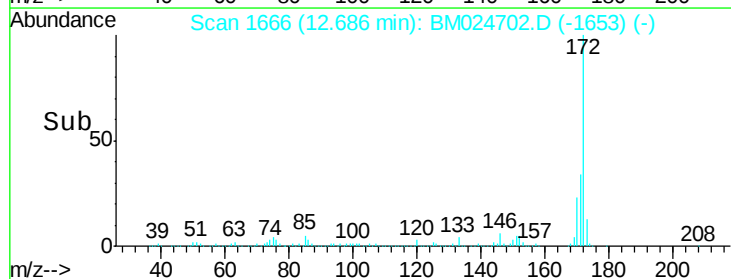
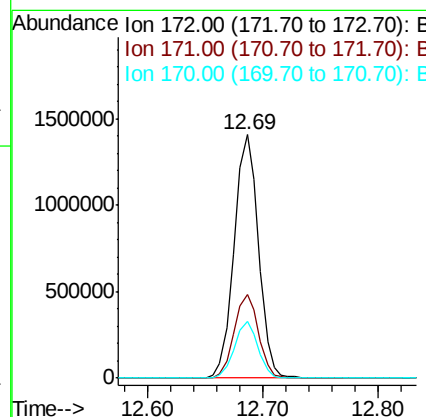
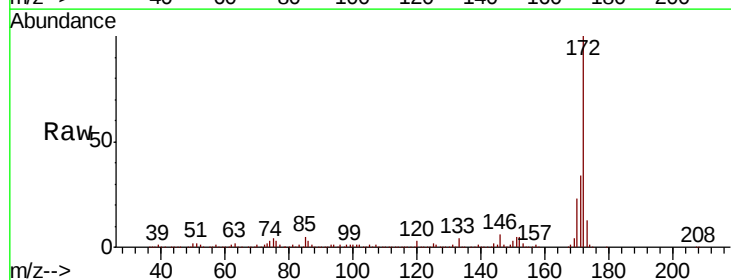
Instrument :
 BNA_M
 ClientSampleId :

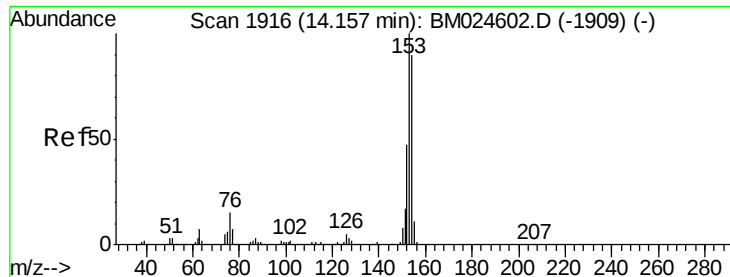
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.2	115.8
141	28.1	26.9	40.3



#45
 2-Fluorobiphenyl
 Concen: 51.217 ng
 RT: 12.69 min Scan# 1666
 Delta R.T. -0.02 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.3	42.5
170	23.1	17.9	26.9





#52

Acenaphthene

Concen: 6.456 ng

RT: 14.14 min Scan# 1913

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

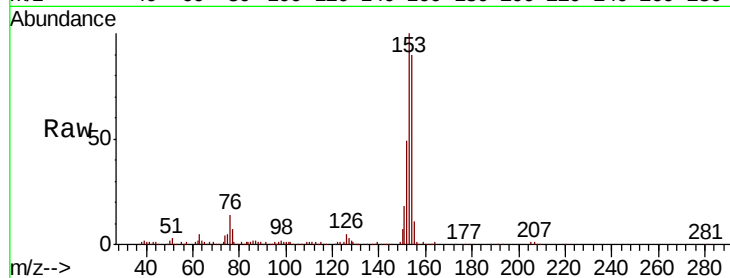
Tot Ion:154 Resp: 200108

Ion Ratio Lower Upper

154 100

153 110.7 89.1 133.7

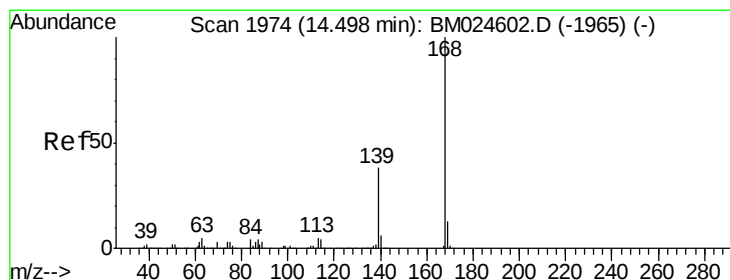
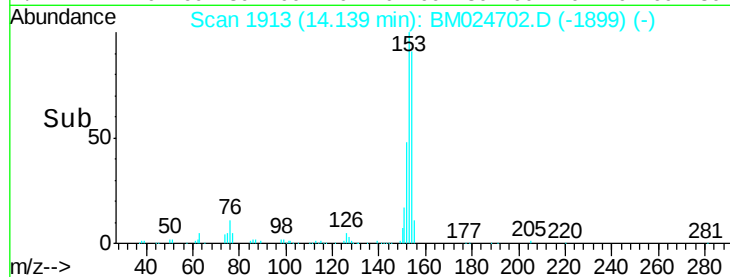
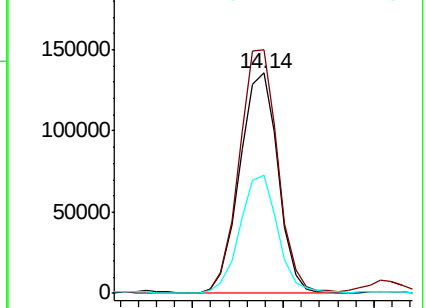
152 53.8 41.9 62.9



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: 2.798 ng

RT: 14.47 min Scan# 1970

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

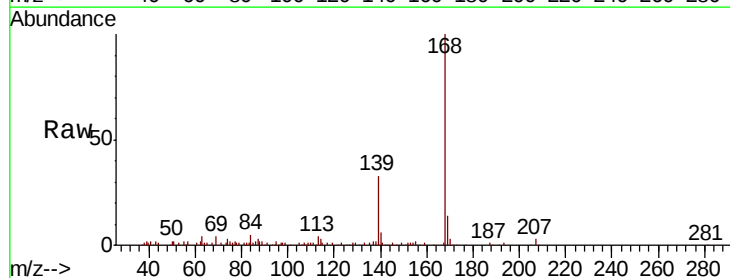
Tgt Ion:168 Resp: 141471

Ion Ratio Lower Upper

168 100

139 33.3 30.2 45.4

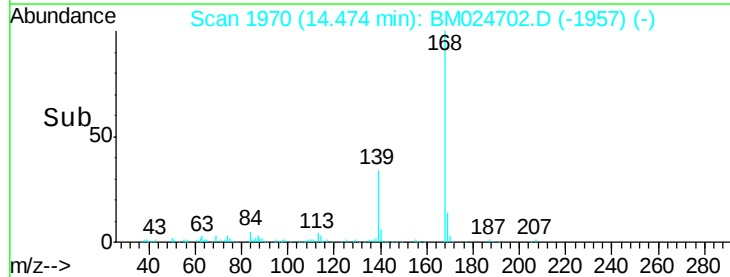
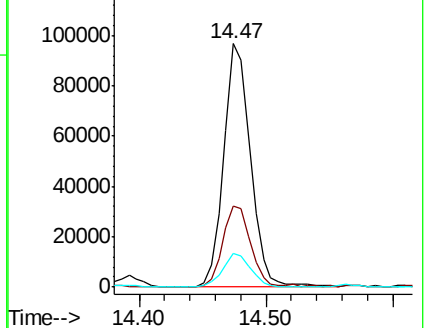
169 13.8 10.7 16.1

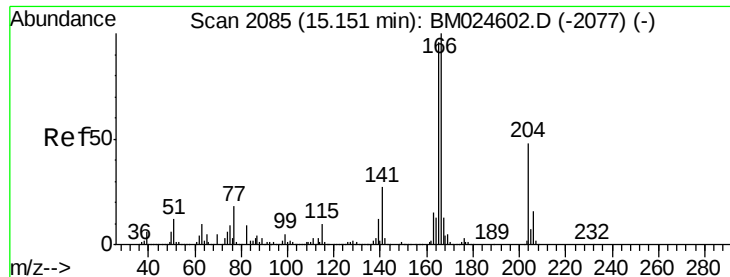


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 4.714 ng

RT: 15.13 min Scan# 2081

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

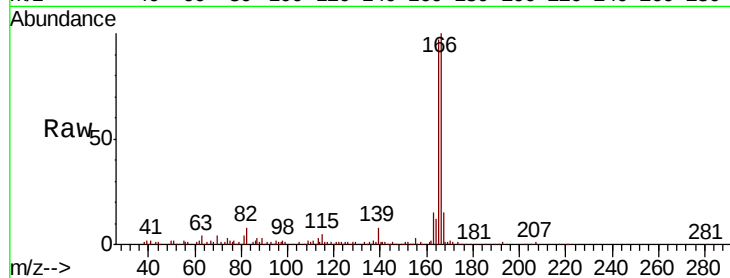
Tot Ion:166 Resp: 200271

Ion Ratio Lower Upper

166 100

165 96.6 76.6 114.8

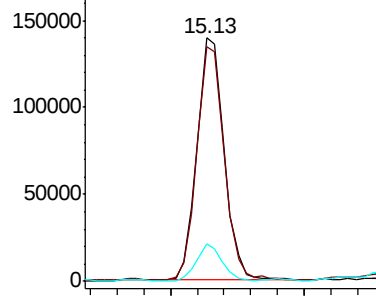
167 15.2 10.8 16.2



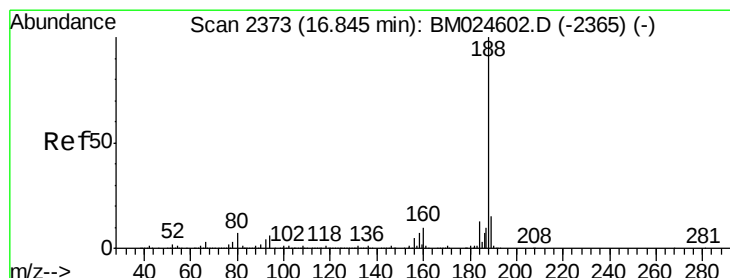
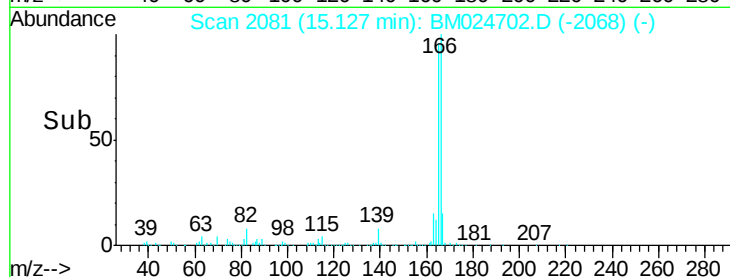
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.83 min Scan# 2370

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

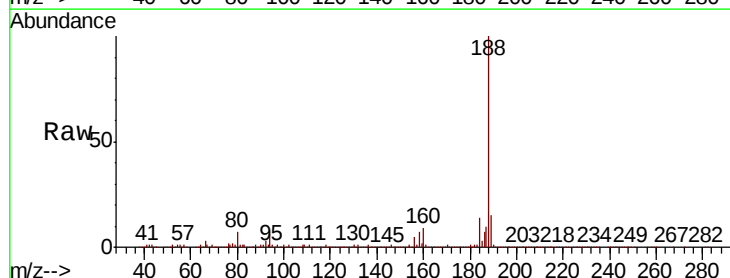
Tgt Ion:188 Resp: 1215334

Ion Ratio Lower Upper

188 100

94 5.6 5.0 7.6

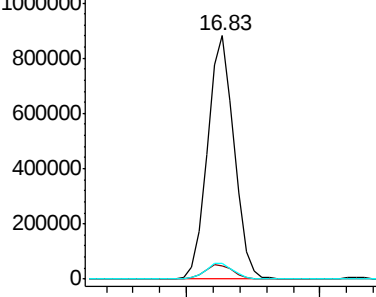
80 6.5 5.8 8.8



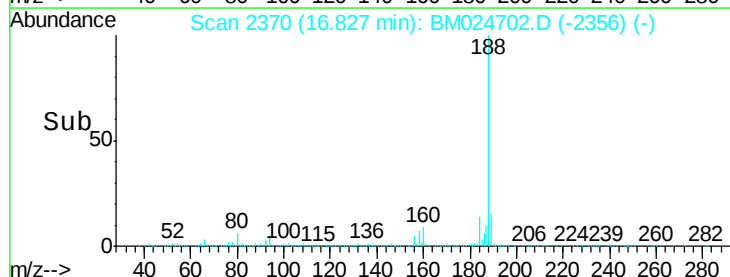
Abundance Ion 188.00 (187.70 to 188.70): E

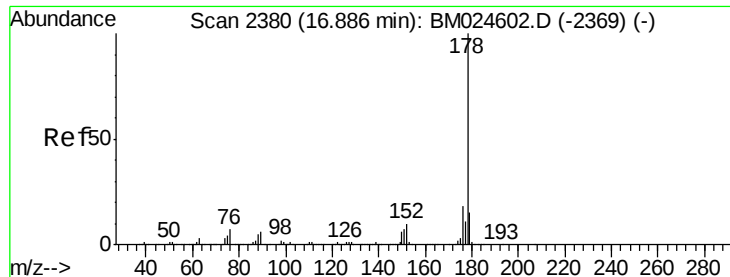
Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



Time-->

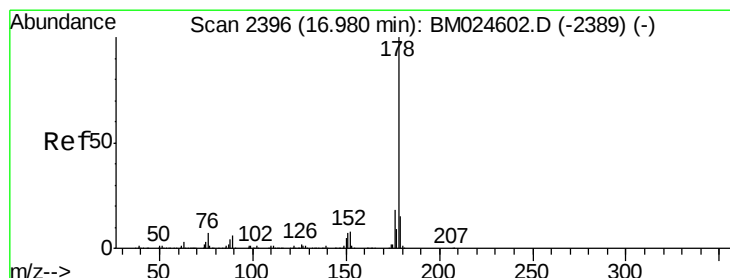
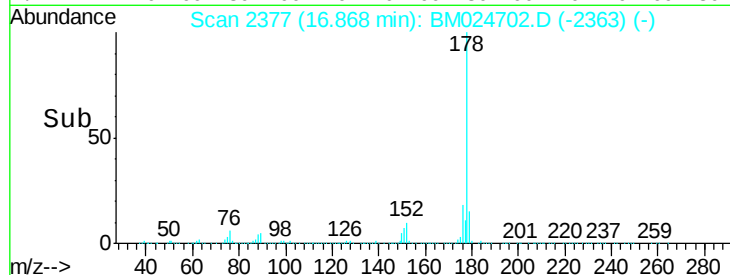
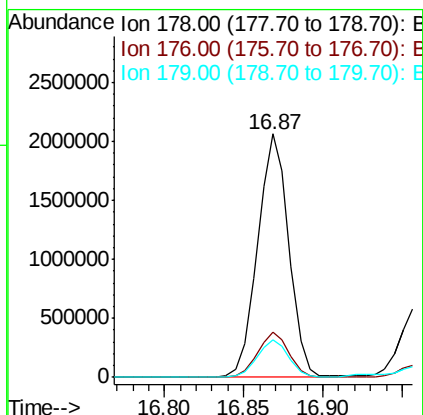
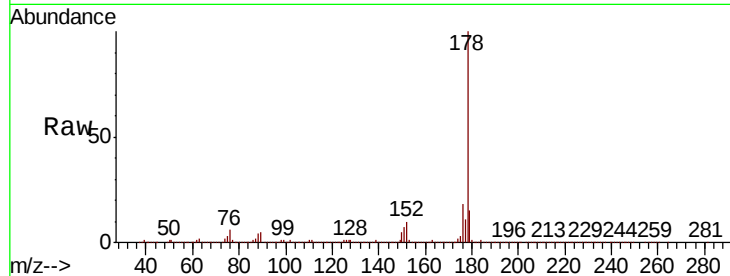




#71
Phenanthrene
Concen: 42.780 ng
RT: 16.87 min Scan# 2377
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

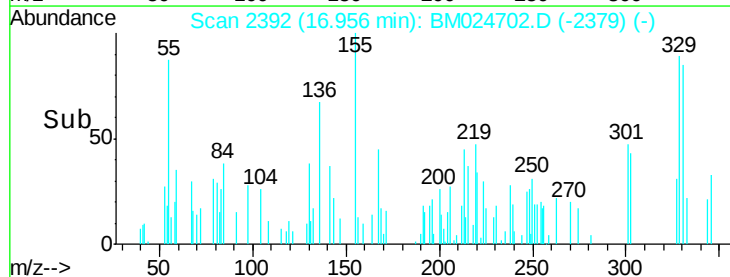
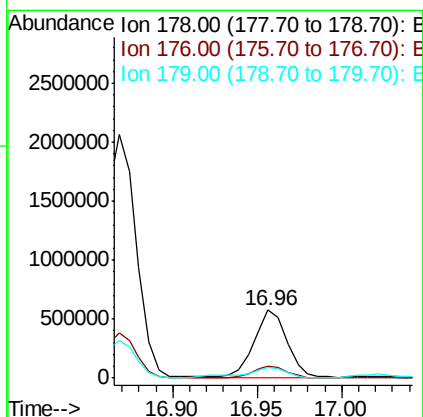
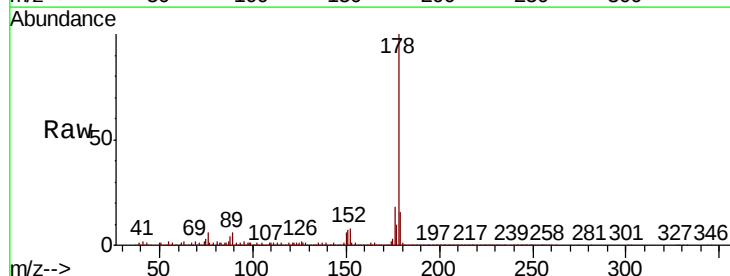
Instrument :
BNA_M
ClientSampleId :

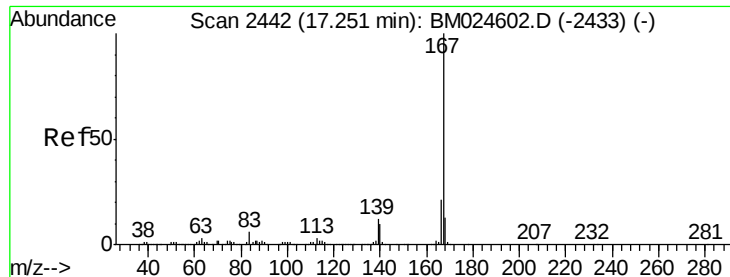
Tot Ion:178 Resp: 2815468
Ion Ratio Lower Upper
178 100
176 18.5 14.5 21.7
179 15.4 11.9 17.9



#72
Anthracene
Concen: 11.871 ng
RT: 16.96 min Scan# 2392
Delta R.T. -0.02 min
Lab File: BM024702.D
Acq: 03 Feb 2020 16:59

Tgt Ion:178 Resp: 764440
Ion Ratio Lower Upper
178 100
176 18.4 14.3 21.5
179 15.6 12.1 18.1





#73

Carbazole

Concen: 6.561 ng

RT: 17.23 min Scan# 2439

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

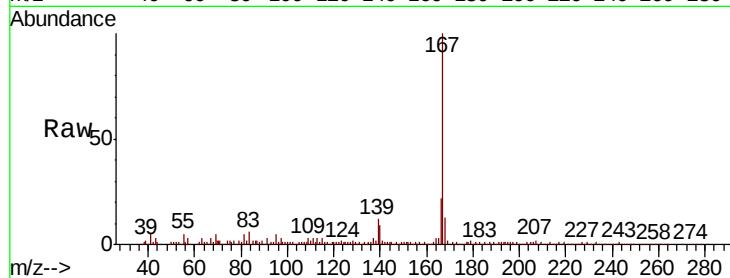
Tot Ion:167 Resp: 384638

Ion Ratio Lower Upper

167 100

166 22.0 17.1 25.7

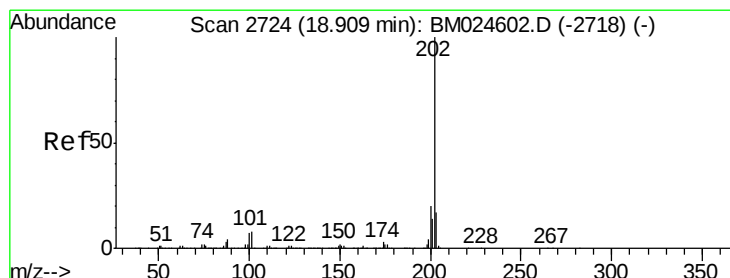
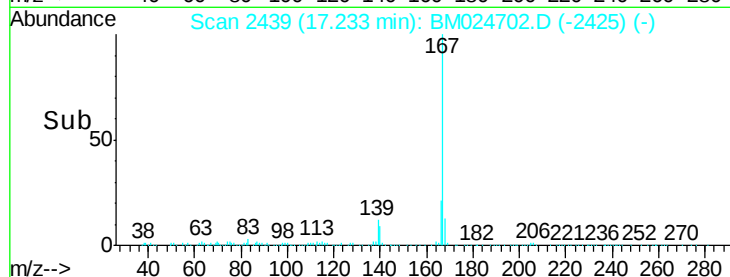
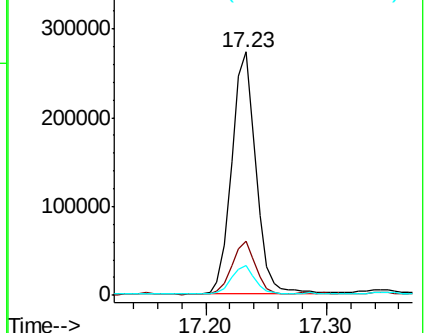
139 12.2 9.8 14.8



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: 59.343 ng

RT: 18.90 min Scan# 2722

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

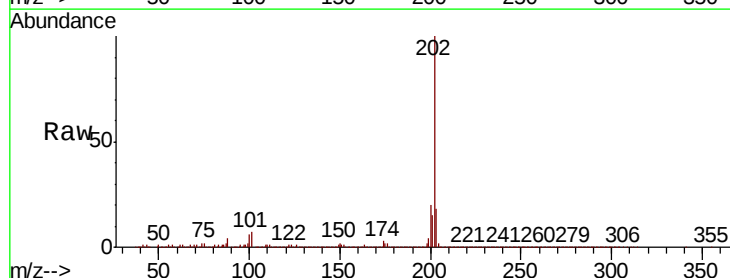
Tgt Ion:202 Resp: 4874482

Ion Ratio Lower Upper

202 100

101 7.4 0.0 28.4

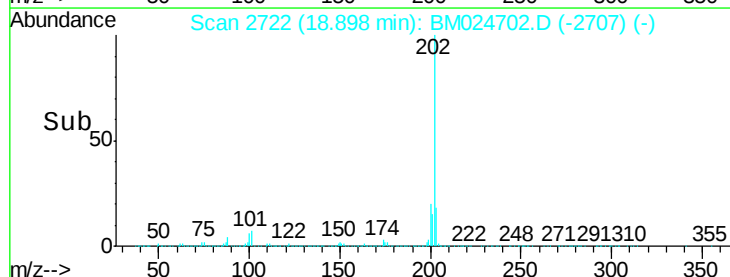
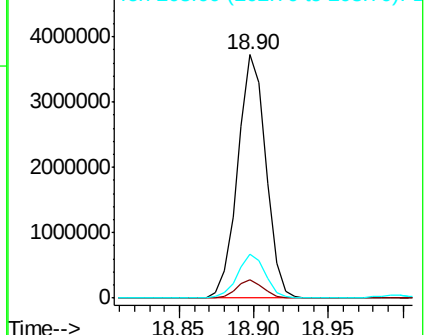
203 17.9 0.0 37.5

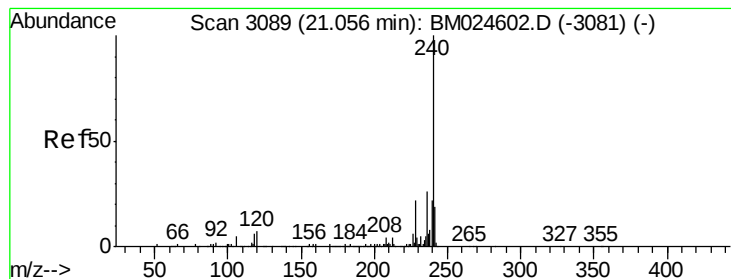


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.04 min Scan# 3086

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampled :

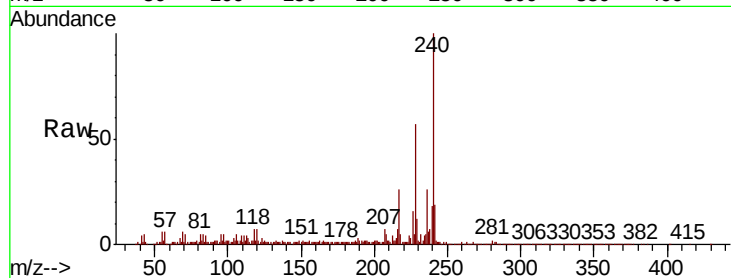
Tot Ion:240 Resp: 1279049

Ion Ratio Lower Upper

240 100

120 7.4 5.3 7.9

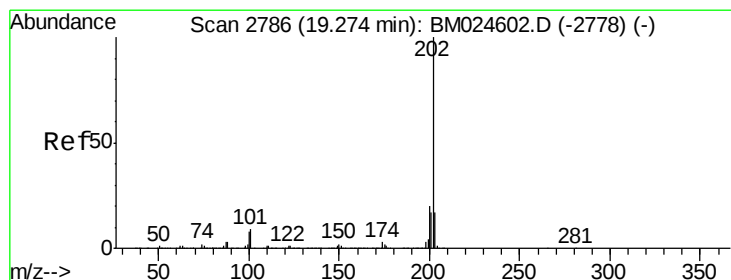
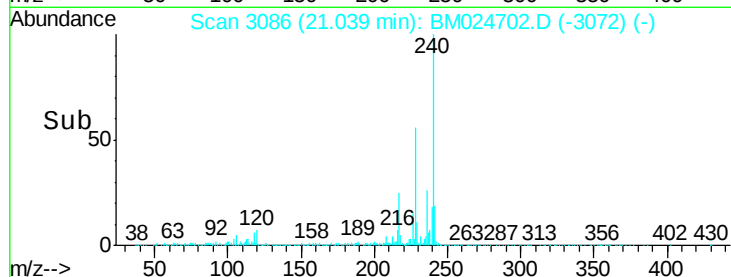
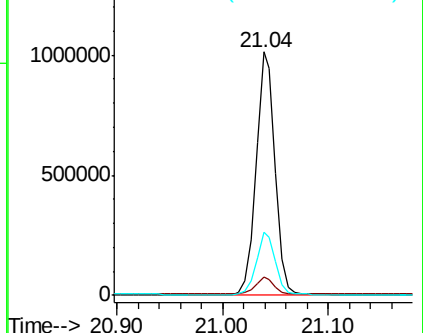
236 25.9 20.6 31.0



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: 47.195 ng

RT: 19.26 min Scan# 2784

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

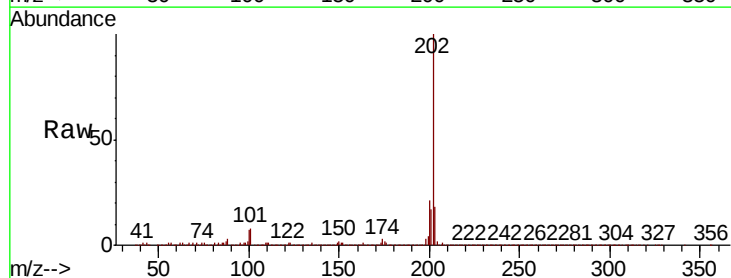
Tgt Ion:202 Resp: 3979474

Ion Ratio Lower Upper

202 100

200 20.7 16.2 24.2

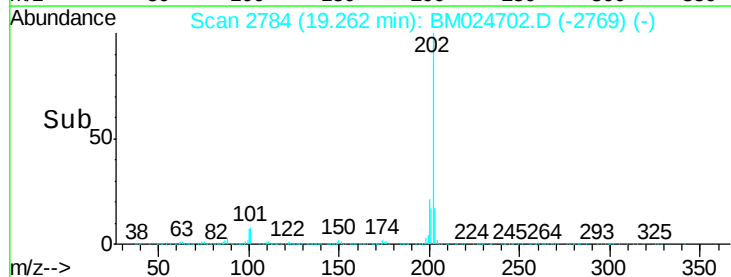
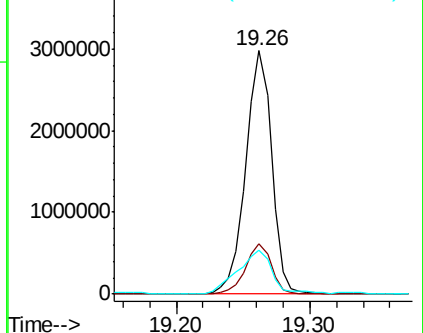
203 18.0 14.0 21.0

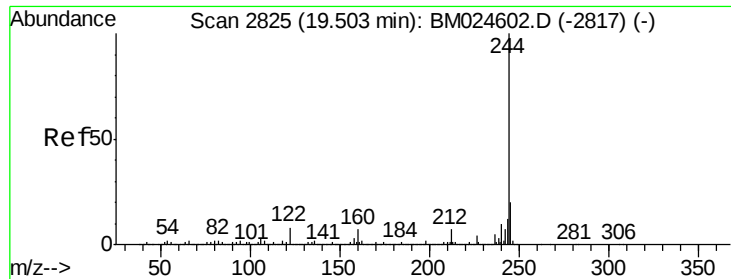


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 53.110 ng

RT: 19.49 min Scan# 2822

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

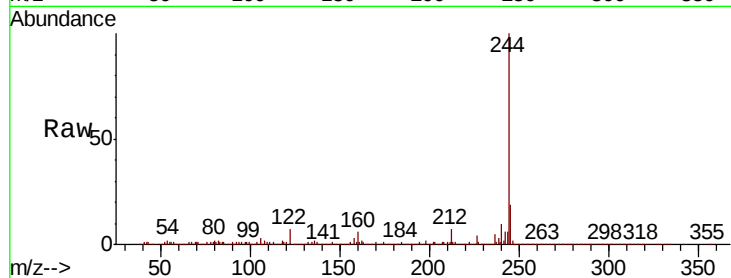
Tot Ion:244 Resp: 3638693

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

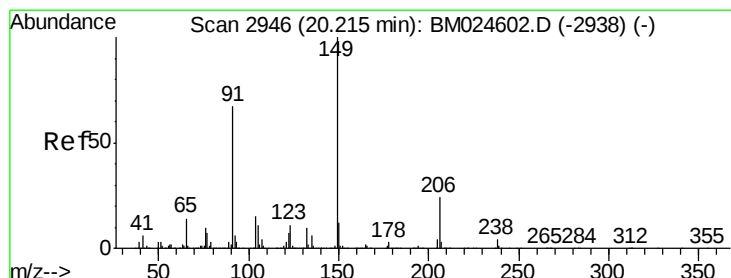
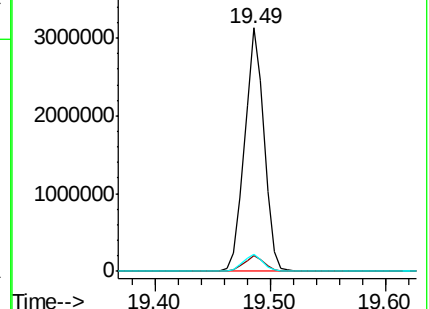
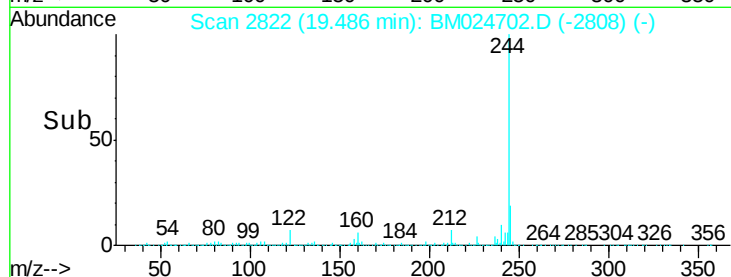
122 7.1 6.2 9.4



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



#80

Butylbenzylphthalate

Concen: 11.567 ng

RT: 20.20 min Scan# 2944

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

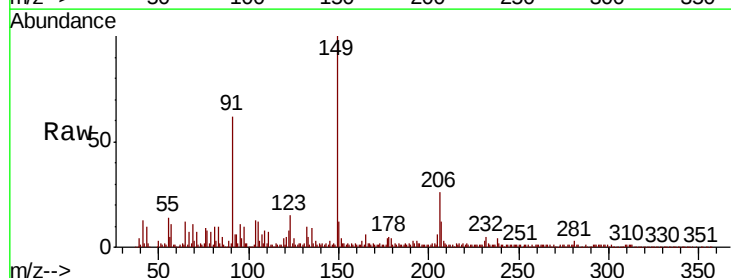
Tgt Ion:149 Resp: 409253

Ion Ratio Lower Upper

149 100

91 61.5 53.9 80.9

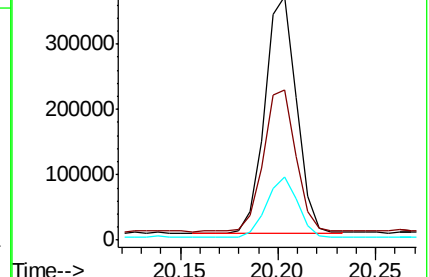
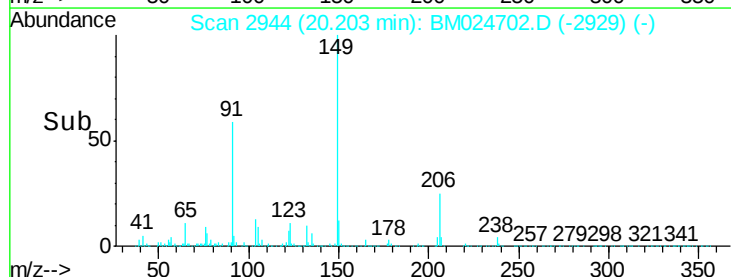
206 25.7 19.0 28.6

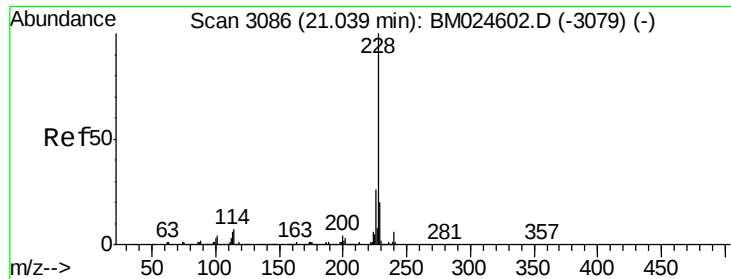


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 26.788 ng

RT: 21.03 min Scan# 3084

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

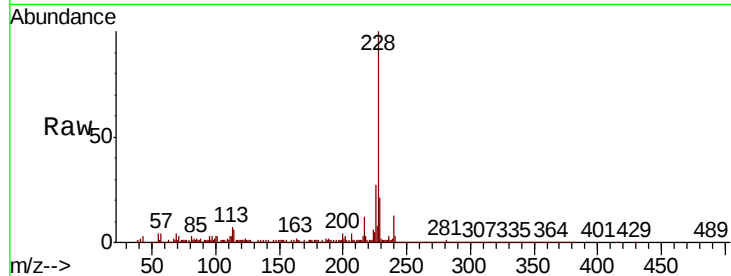
Tot Ion:228 Resp: 2378083

Ion Ratio Lower Upper

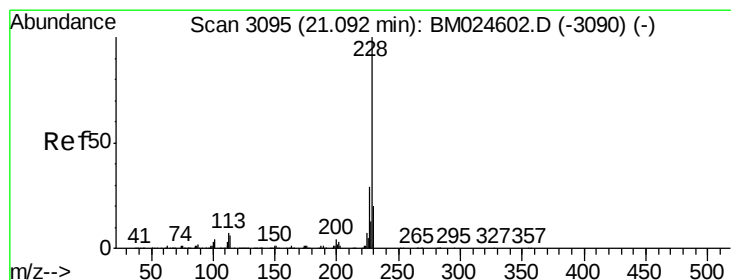
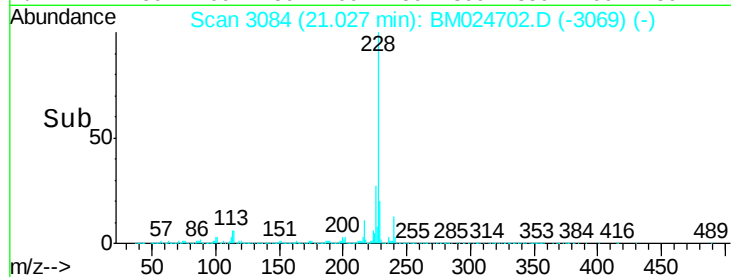
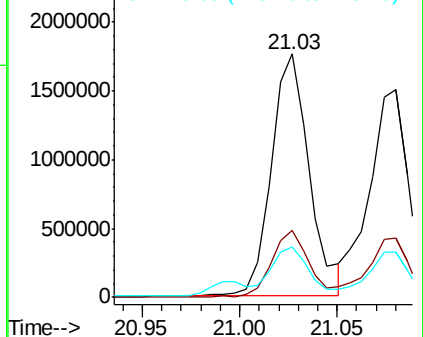
228 100

226 27.4 21.1 31.7

229 20.5 15.8 23.6



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: 24.685 ng

RT: 21.08 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

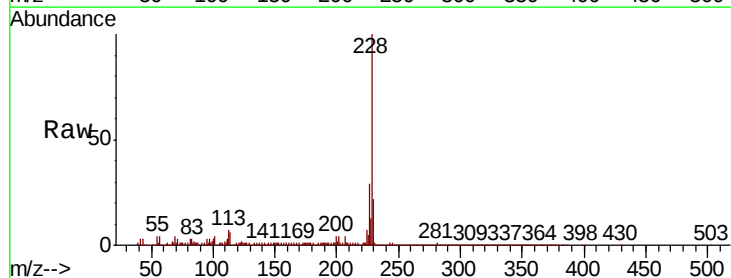
Tgt Ion:228 Resp: 2090995

Ion Ratio Lower Upper

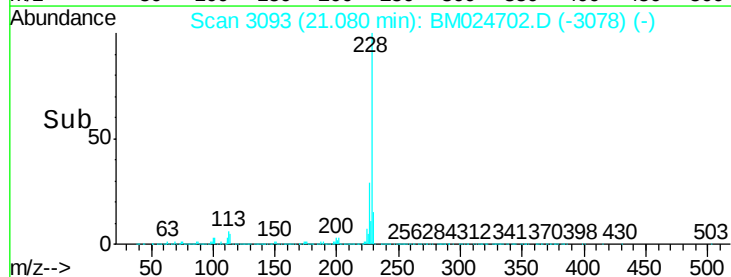
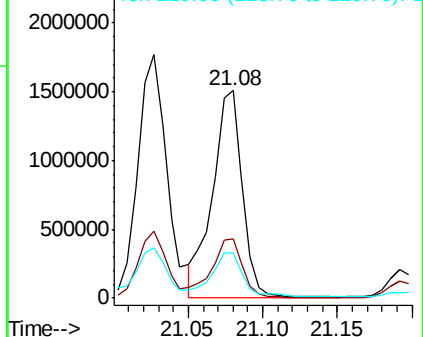
228 100

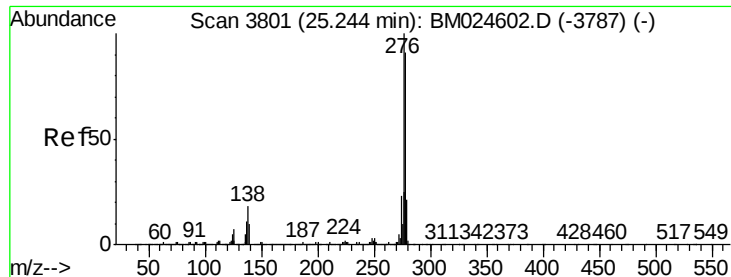
226 28.7 23.2 34.8

229 21.9 15.7 23.5



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



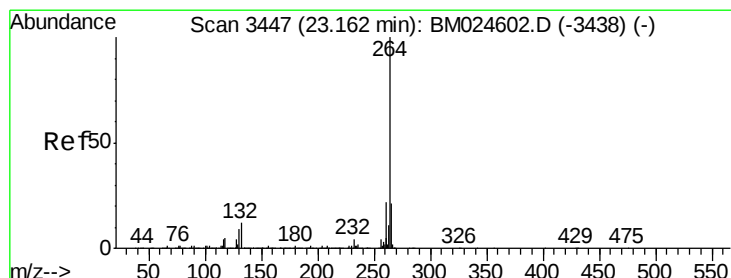
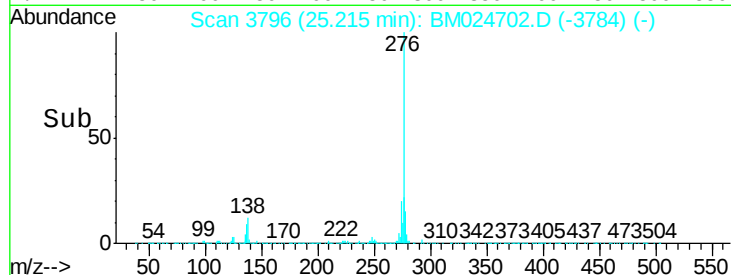
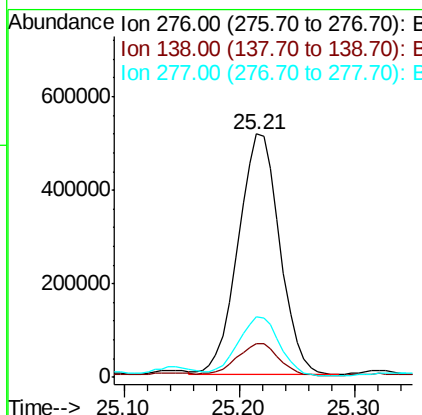
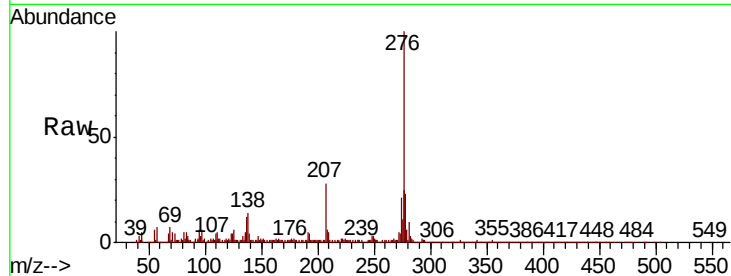


#86
 Indeno(1,2,3-cd)pyrene
 Concen: 13.873 ng
 RT: 25.21 min Scan# 3796
 Delta R.T. -0.03 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:276 Resp: 1280846

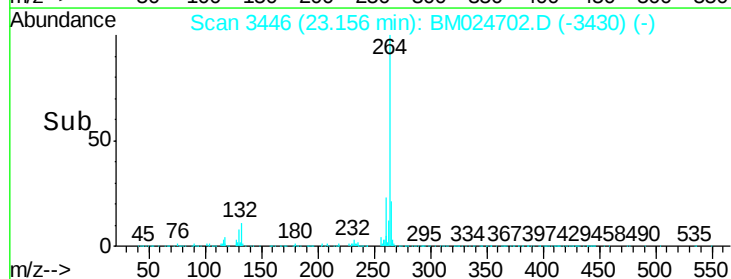
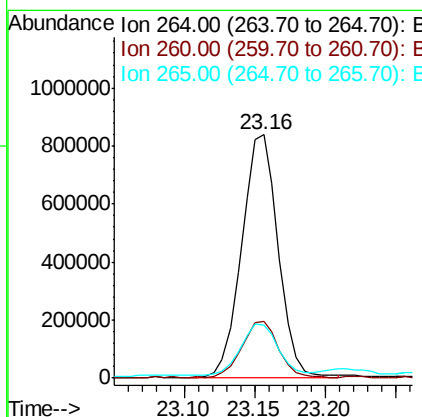
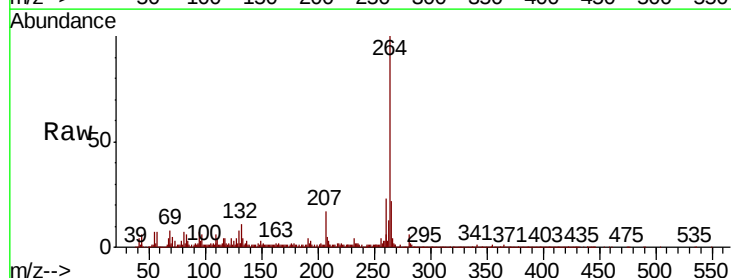
Ion	Ratio	Lower	Upper
276	100		
138	13.7	13.4	20.0
277	24.4	19.6	29.4

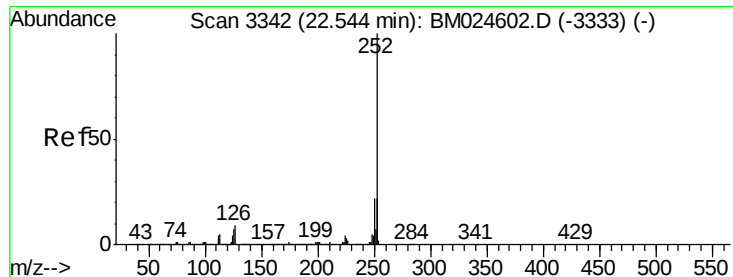


#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.16 min Scan# 3446
 Delta R.T. -0.01 min
 Lab File: BM024702.D
 Acq: 03 Feb 2020 16:59

Tgt Ion:264 Resp: 1508961

Ion	Ratio	Lower	Upper
264	100		
260	23.4	17.9	26.9
265	21.9	17.3	25.9





#88

Benzo(b)fluoranthene

Concen: 38.235 ng

RT: 22.54 min Scan# 3341

Delta R.T. -0.01 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

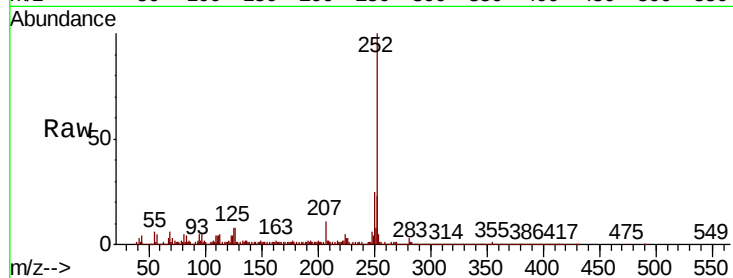
Tot Ion:252 Resp: 3741982

Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

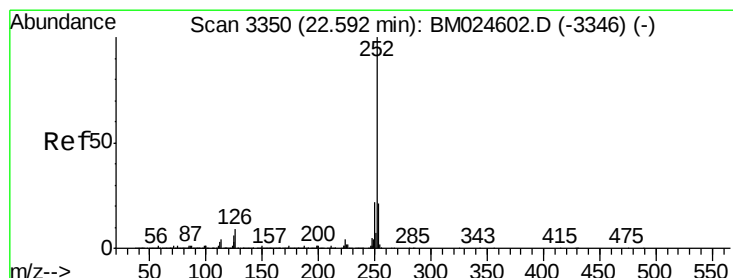
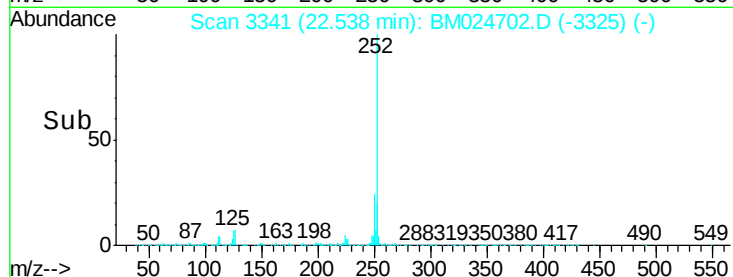
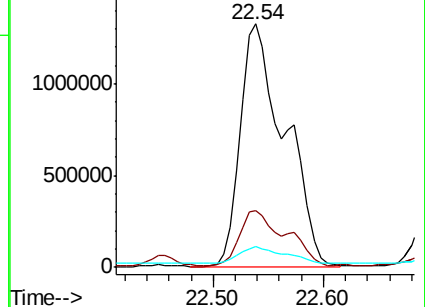
125 8.4 5.7 8.5



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: 39.052 ng

RT: 22.54 min Scan# 3341

Delta R.T. -0.05 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

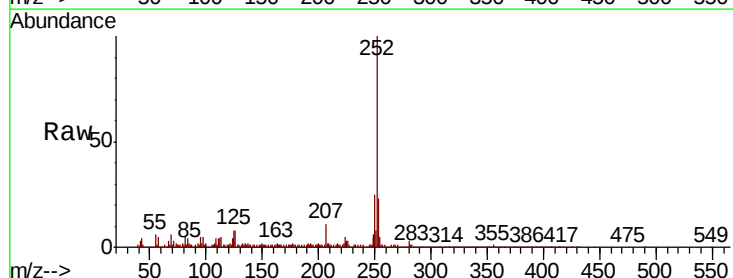
Tgt Ion:252 Resp: 3730526

Ion Ratio Lower Upper

252 100

253 23.4 17.3 25.9

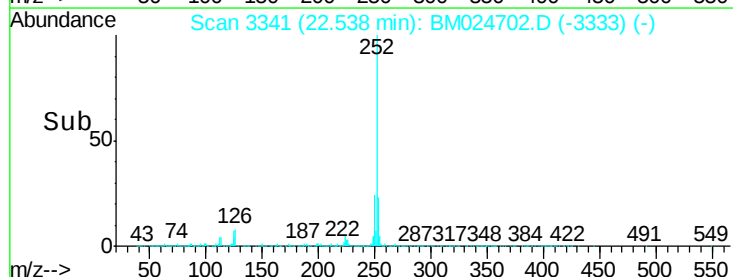
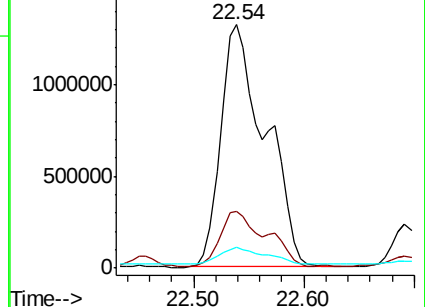
125 8.4 5.2 7.8#

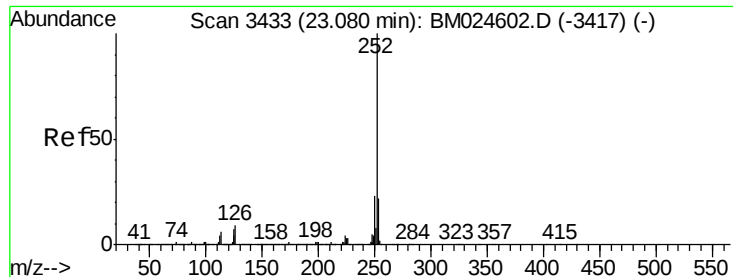


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 21.537 ng

RT: 23.06 min Scan# 3430

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

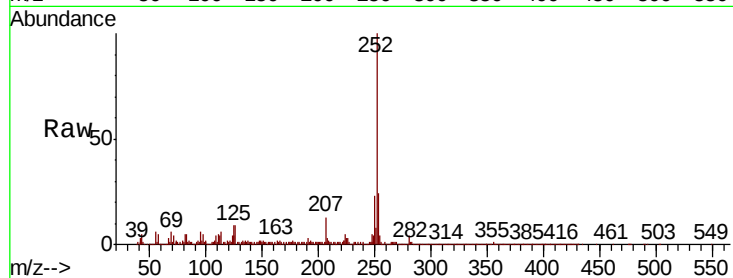
Tot Ion:252 Resp: 1916329

Ion Ratio Lower Upper

252 100

253 23.9 17.3 25.9

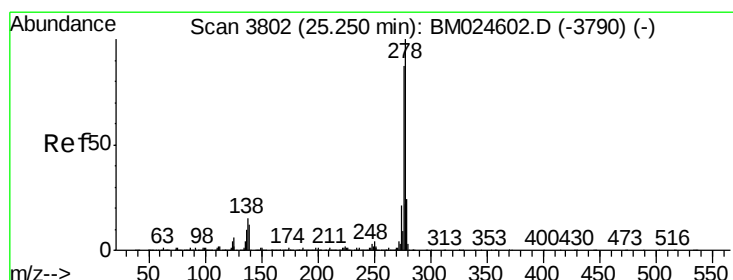
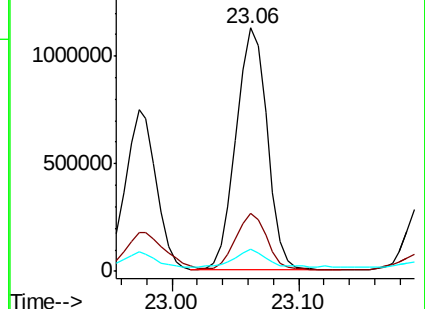
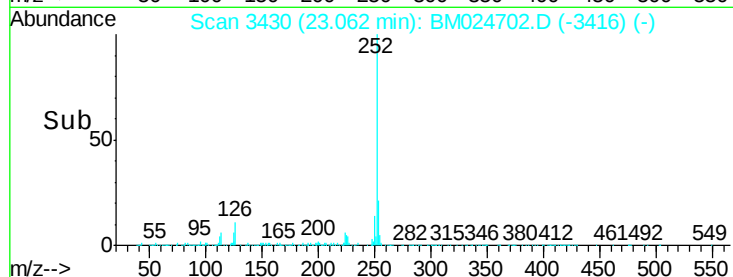
125 8.9 5.8 8.8#



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



#91

Dibenzo(a,h)anthracene

Concen: 3.933 ng

RT: 25.23 min Scan# 3798

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

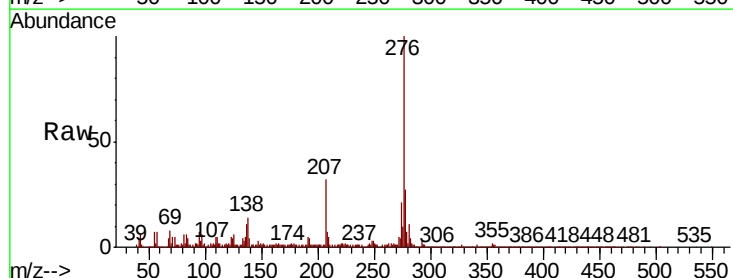
Tgt Ion:278 Resp: 332162

Ion Ratio Lower Upper

278 100

139 15.6 9.3 13.9#

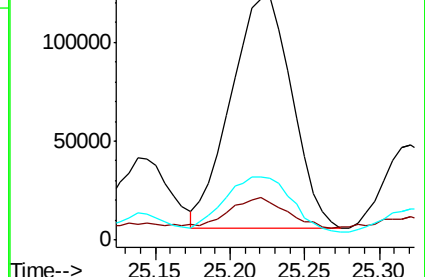
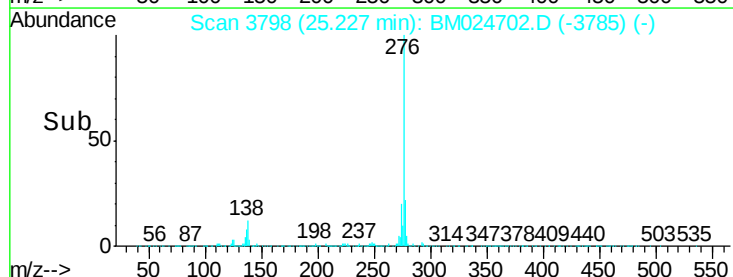
279 25.3 18.9 28.3

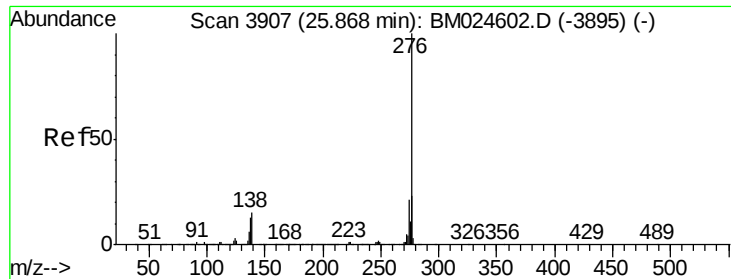


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 15.517 ng

RT: 25.84 min Scan# 3903

Delta R.T. -0.02 min

Lab File: BM024702.D

Acq: 03 Feb 2020 16:59

Instrument :

BNA_M

ClientSampleId :

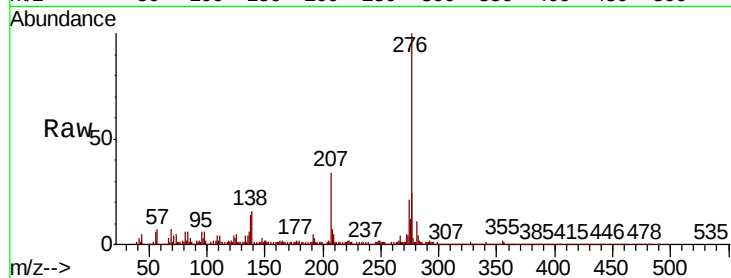
Tot Ion:276 Resp: 1189929

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 15.5 11.9 17.9



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

