

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
 Data File : BM024704.D
 Acq On : 03 Feb 2020 18:12
 Operator : CG/JU
 Sample : L1351-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Feb 04 03:00:24 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	256947	20.00	ng	-0.02
21) Naphthalene-d8	10.18	136	958005	20.00	ng	-0.02
39) Acenaphthene-d10	14.07	164	634152	20.00	ng	-0.02
64) Phenanthrene-d10	16.83	188	1327536	20.00	ng	-0.02
76) Chrysene-d12	21.04	240	1289226	20.00	ng	-0.02
87) Perylene-d12	23.15	264	1524001	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.07	112	1414627	104.70	ng	-0.01
7) Phenol-d6	6.63	99	1754850	94.28	ng	-0.02
23) Nitrobenzene-d5	8.56	82	1130797	57.89	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	1029251	99.78	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	2494536	53.48	ng	-0.02
79) Terphenyl-d14	19.49	244	3876347	56.13	ng	-0.02

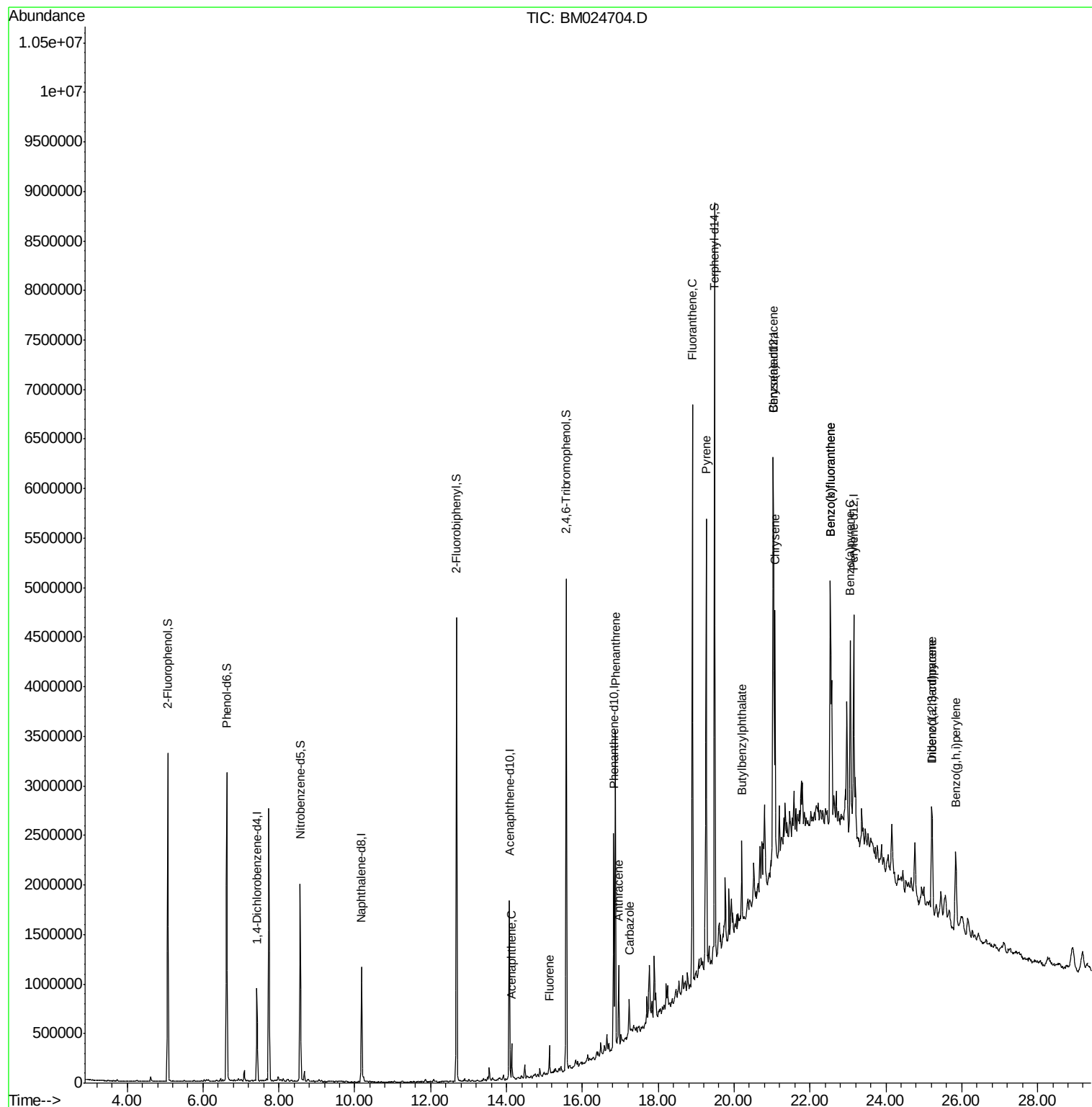
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
52) Acenaphthene	14.14	154	130069	3.614	ng	98
58) Fluorene	15.13	166	125691	2.548	ng	100
71) Phenanthrene	16.87	178	1955675	27.204	ng	99
72) Anthracene	16.96	178	504652	7.174	ng	99
73) Carbazole	17.23	167	254202	3.970	ng	99
75) Fluoranthene	18.90	202	3542855	39.486	ng	99
78) Pyrene	19.26	202	2907015	34.204	ng	99
80) Butylbenzylphthalate	20.20	149	256367	7.189	ng	93
81) Benzo(a)anthracene	21.03	228	1708431	19.093	ng	99
83) Chrysene	21.08	228	1509052	17.674	ng	98
86) Indeno(1,2,3-cd)pyrene	25.22	276	981186	10.543	ng	97
88) Benzo(b)fluoranthene	22.54	252	2782776	28.153	ng	# 97
89) Benzo(k)fluoranthene	22.54	252	2785384	28.870	ng	# 96
90) Benzo(a)pyrene	23.06	252	1416966	15.768	ng	# 95
91) Dibenzo(a,h)anthracene	25.23	278	256452	3.007	ng	# 90
92) Benzo(g,h,i)perylene	25.84	276	926025	11.957	ng	98

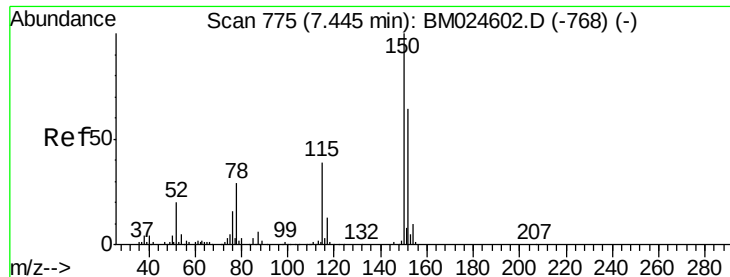
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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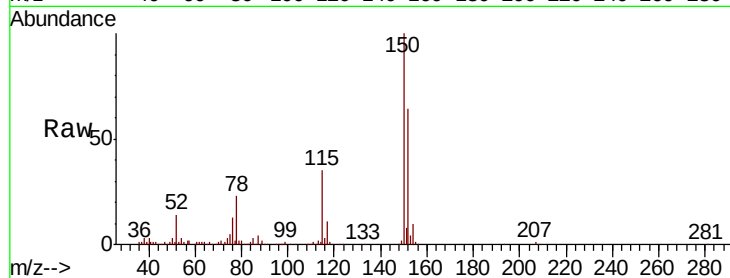


#1

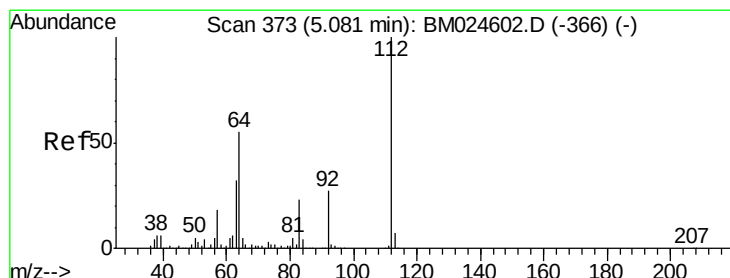
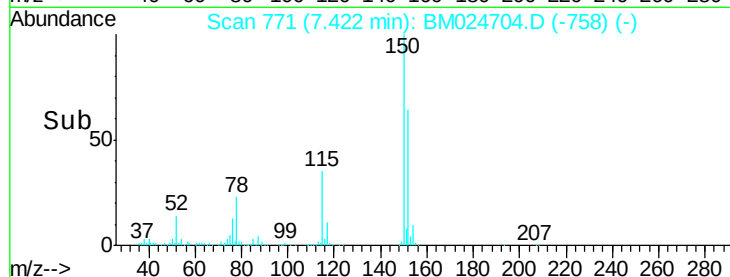
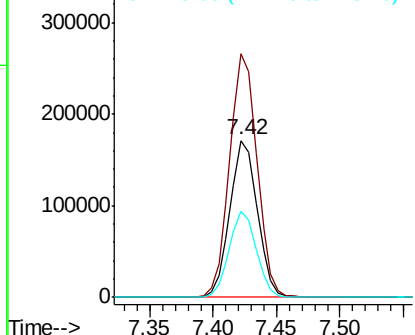
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.42 min Scan# 771
Delta R.T. -0.02 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.2	186.4
115	54.7	48.6	72.8



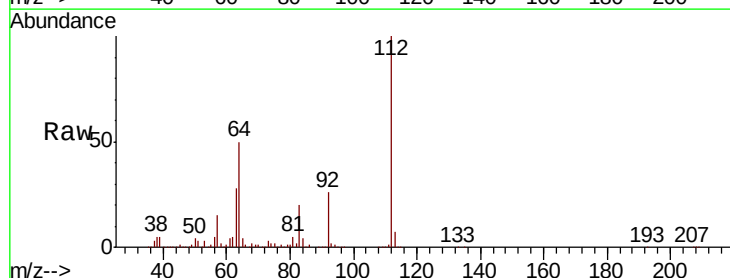
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



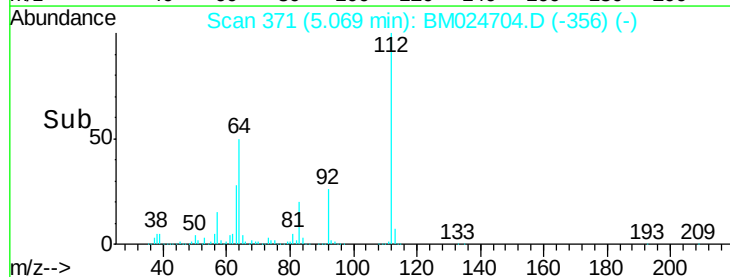
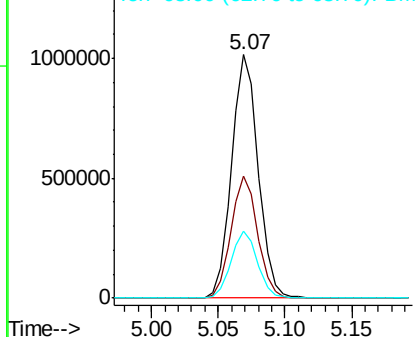
#5

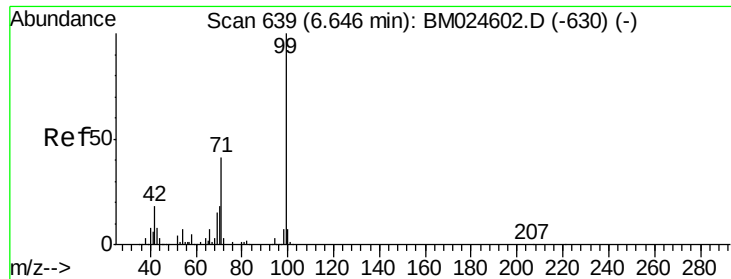
2-Fluorophenol
Concen: 104.702 ng
RT: 5.07 min Scan# 371
Delta R.T. -0.01 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	44.2	66.4
63	27.7	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: 94.284 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

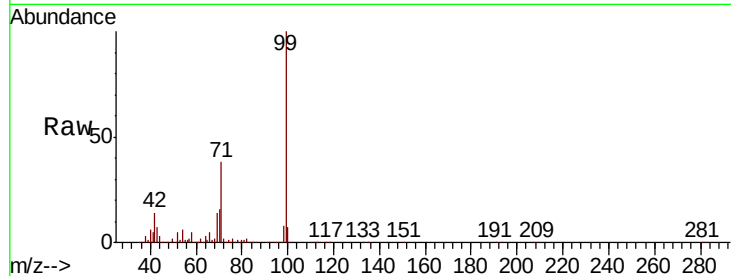
Instrument :

BNA_M

ClientSampleId :

Tot Ion: 99 Resp: 1754850

Ion	Ratio	Lower	Upper
99	100		
42	14.4	14.1	21.1
71	37.6	33.0	49.6

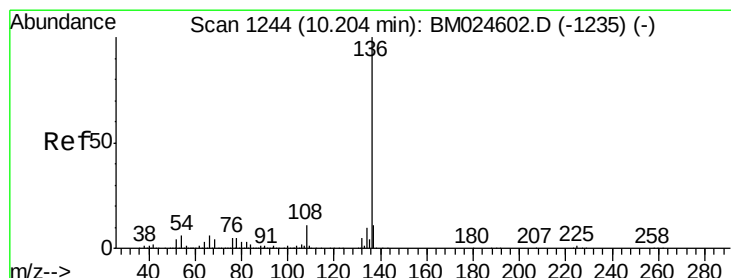
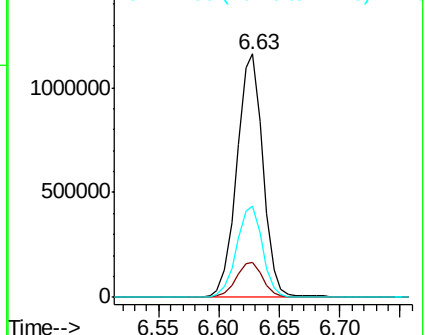
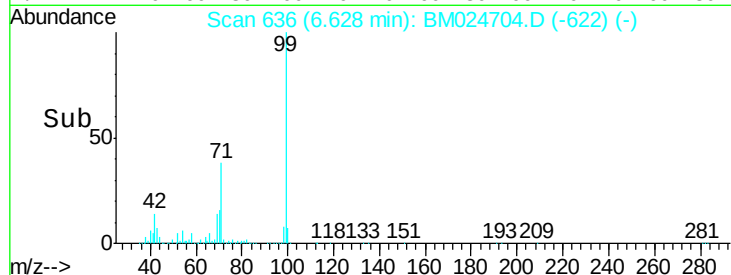


Abundance

Ion 99.00 (98.70 to 99.70): BM024704.D (-622) (-)

Ion 42.00 (41.70 to 42.70): BM024704.D (-622) (-)

Ion 71.00 (70.70 to 71.70): BM024704.D (-622) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

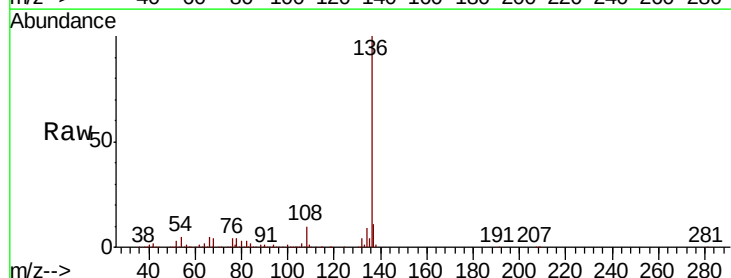
Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Tgt Ion: 136 Resp: 958005

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	4.7	4.5	6.7
68	4.4	3.4	5.0



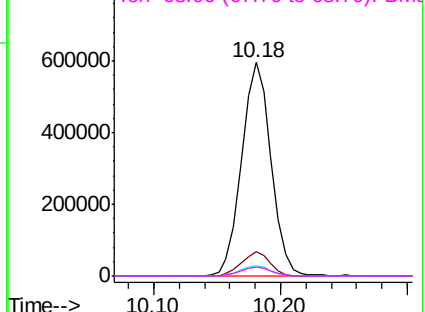
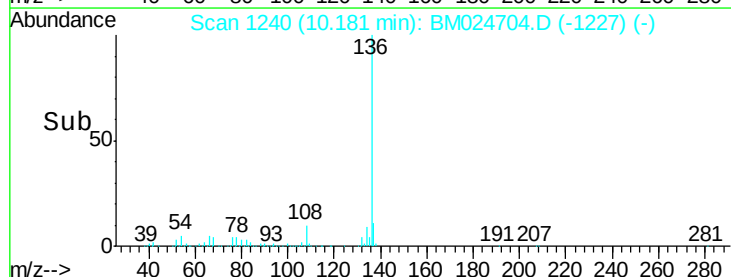
Abundance

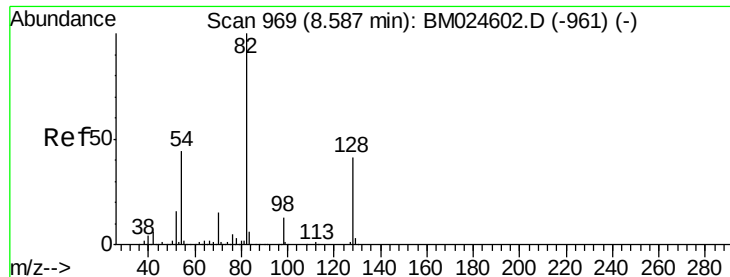
Ion 136.00 (135.70 to 136.70): BM024704.D (-1227) (-)

Ion 137.00 (136.70 to 137.70): BM024704.D (-1227) (-)

Ion 54.00 (53.70 to 54.70): BM024704.D (-1227) (-)

Ion 68.00 (67.70 to 68.70): BM024704.D (-1227) (-)

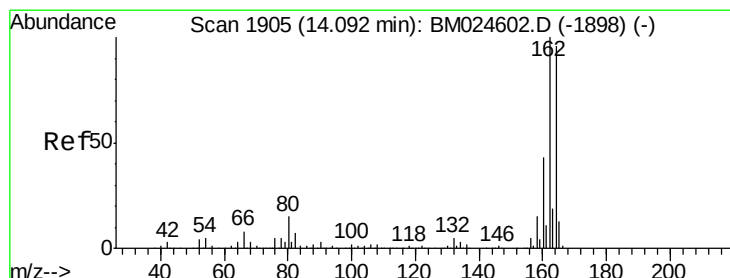
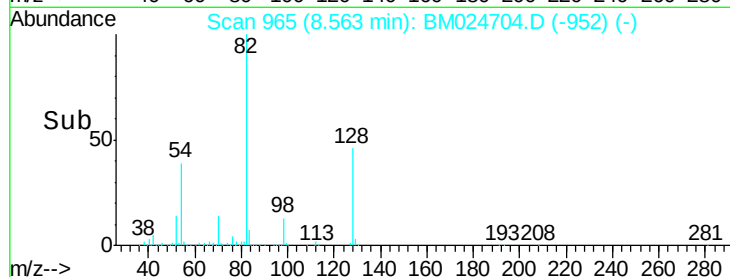
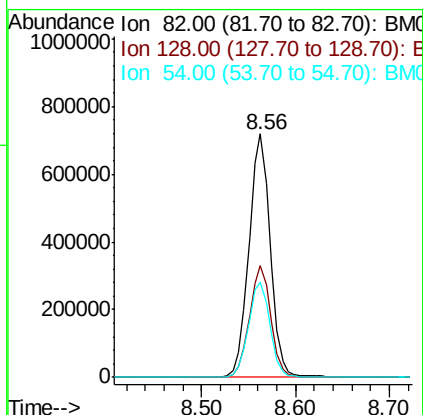
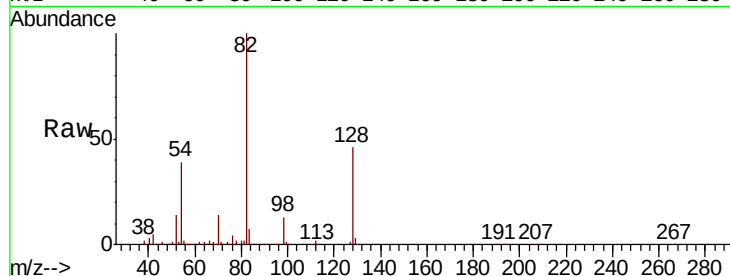




#23
Nitrobenzene-d5
Concen: 57.887 ng
RT: 8.56 min Scan# 965
Delta R.T. -0.02 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

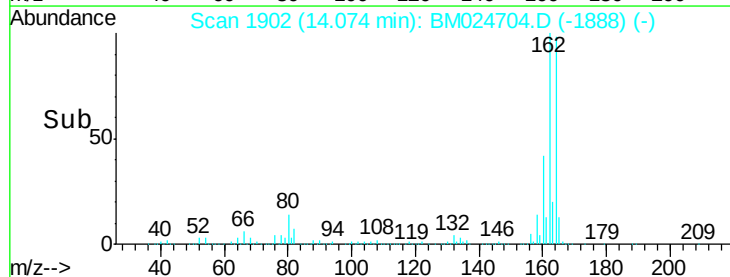
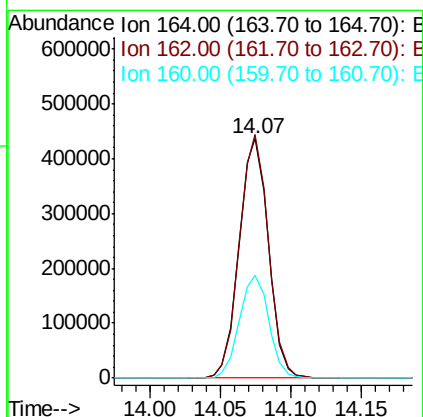
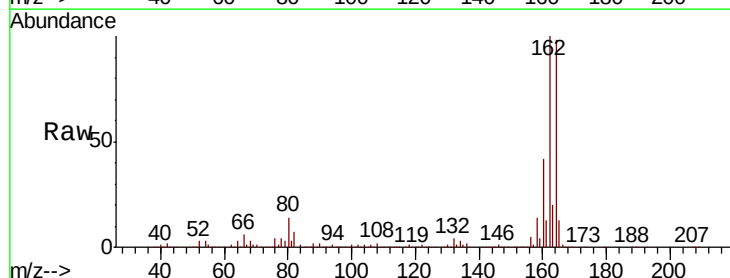
Instrument :
BNA_M
ClientSampled :

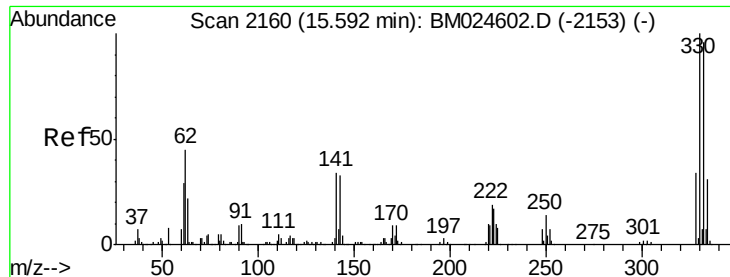
Tot Ion: 82 Resp: 1130797
Ion Ratio Lower Upper
82 100
128 46.0 32.6 48.8
54 38.9 34.8 52.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.07 min Scan# 1902
Delta R.T. -0.02 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Tgt Ion:164 Resp: 634152
Ion Ratio Lower Upper
164 100
162 101.7 82.9 124.3
160 42.9 35.5 53.3

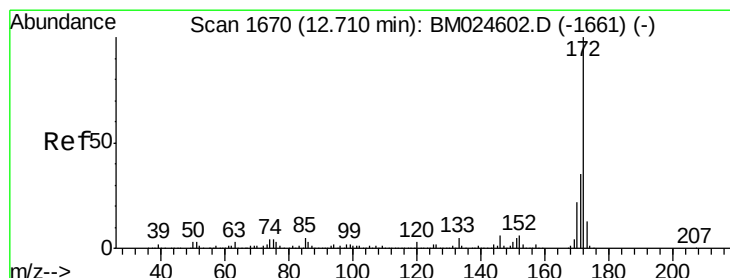
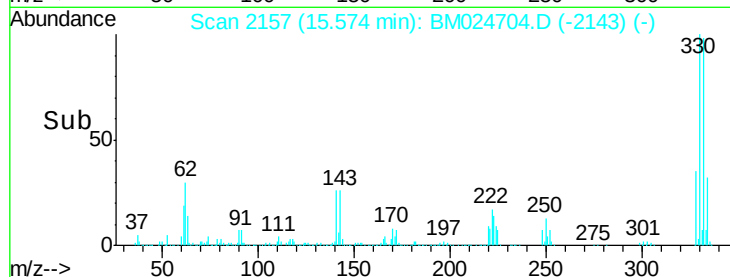
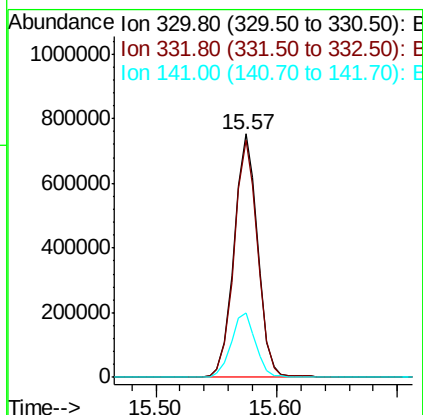
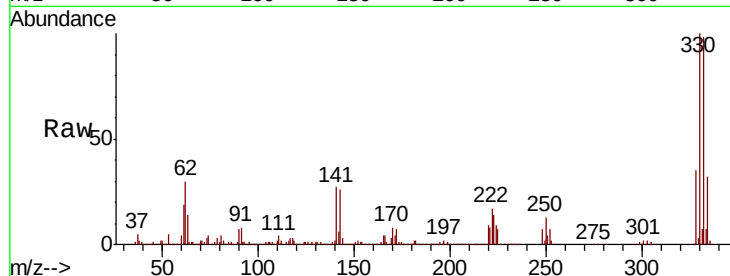




#42
 2,4,6-Tribromophenol
 Concen: 99.778 ng
 RT: 15.57 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: BM024704.D
 Acq: 03 Feb 2020 18:12

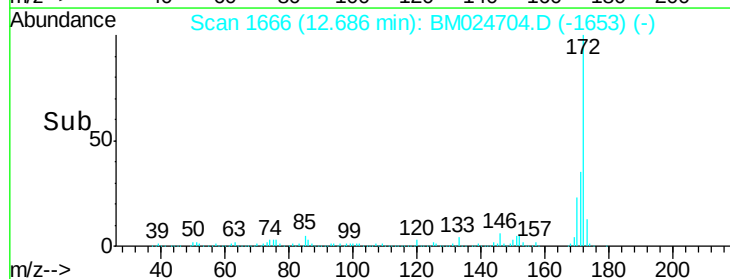
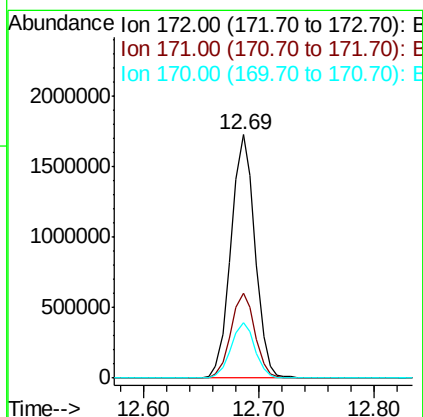
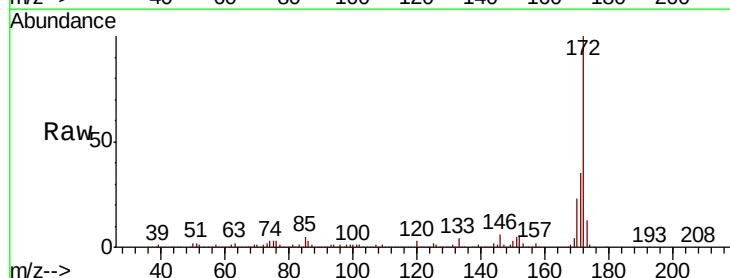
Instrument :
 BNA_M
 ClientSampled :

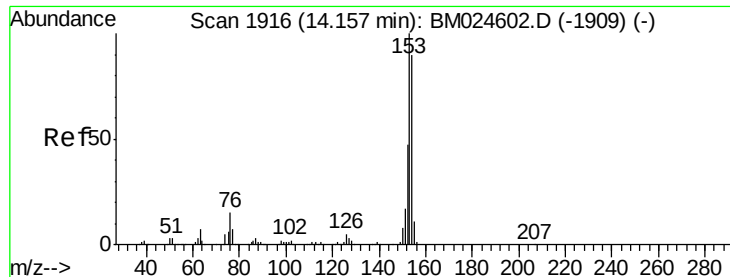
Tot Ion:330 Resp: 1029251
 Ion Ratio Lower Upper
 330 100
 332 97.1 77.2 115.8
 141 26.8 26.9 40.3#



#45
 2-Fluorobiphenyl
 Concen: 53.478 ng
 RT: 12.69 min Scan# 1666
 Delta R.T. -0.02 min
 Lab File: BM024704.D
 Acq: 03 Feb 2020 18:12

Tgt Ion:172 Resp: 2494536
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.3 42.5
 170 22.6 17.9 26.9





#52

Acenaphthene

Concen: 3.614 ng

RT: 14.14 min Scan# 1913

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampleId :

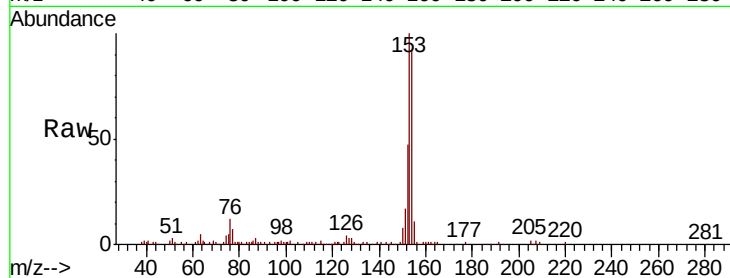
Tot Ion:154 Resp: 130069

Ion Ratio Lower Upper

154 100

153 108.6 89.1 133.7

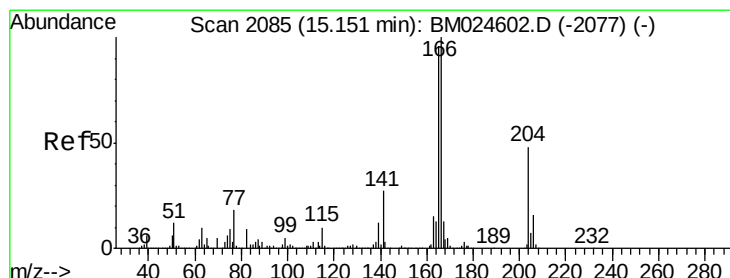
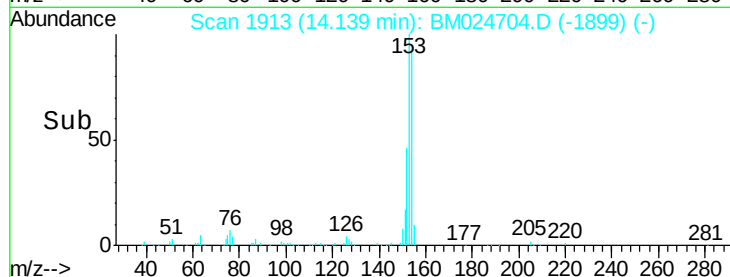
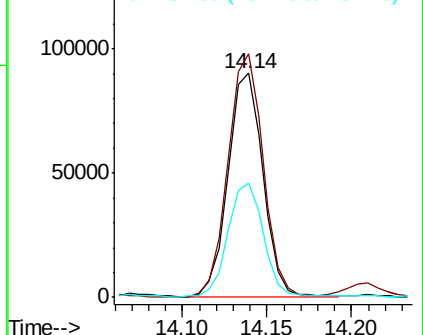
152 50.9 41.9 62.9



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



#58

Fluorene

Concen: 2.548 ng

RT: 15.13 min Scan# 2082

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

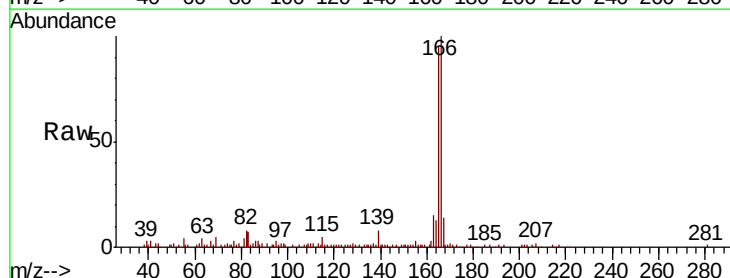
Tgt Ion:166 Resp: 125691

Ion Ratio Lower Upper

166 100

165 95.4 76.6 114.8

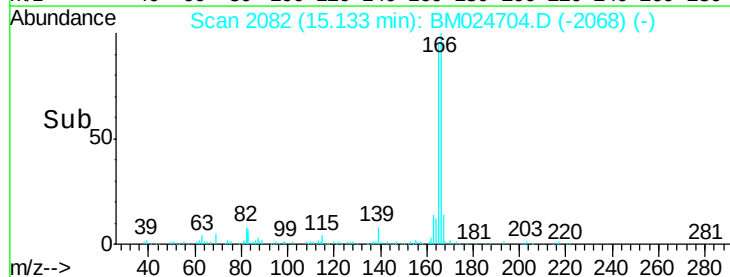
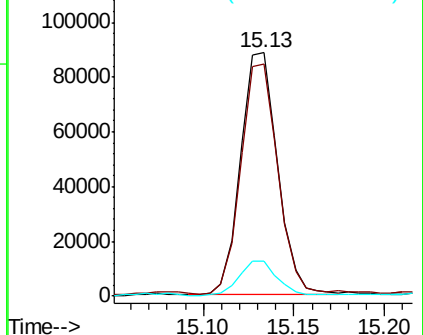
167 14.3 10.8 16.2

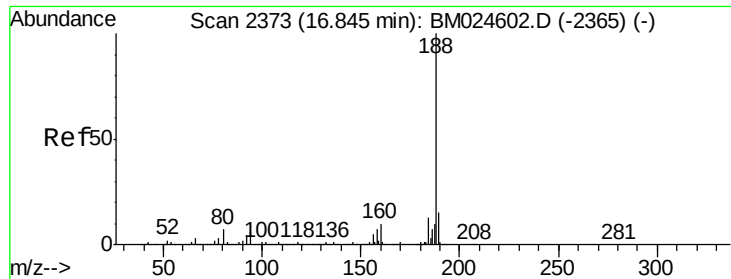


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.83 min Scan# 2370

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampleId :

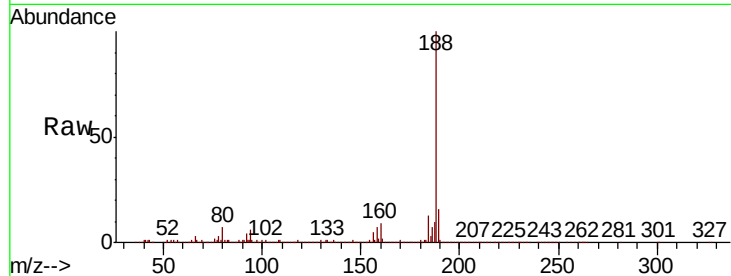
Tot Ion:188 Resp: 1327536

Ion Ratio Lower Upper

188 100

94 6.2 5.0 7.6

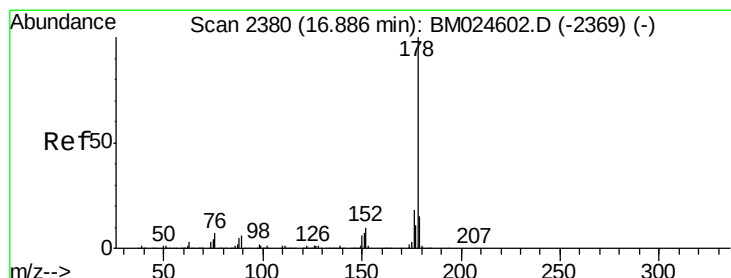
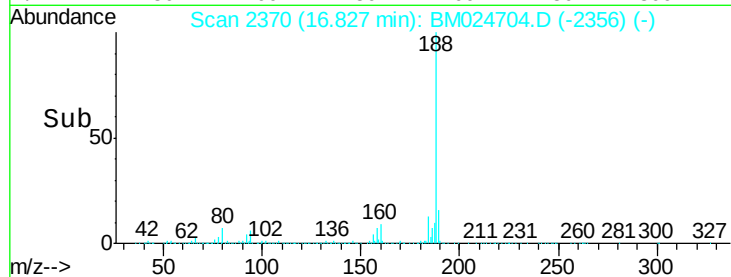
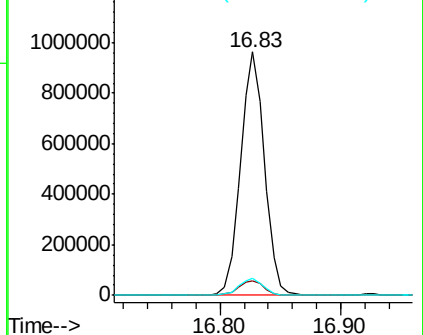
80 7.2 5.8 8.8



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



#71

Phenanthrene

Concen: 27.204 ng

RT: 16.87 min Scan# 2377

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

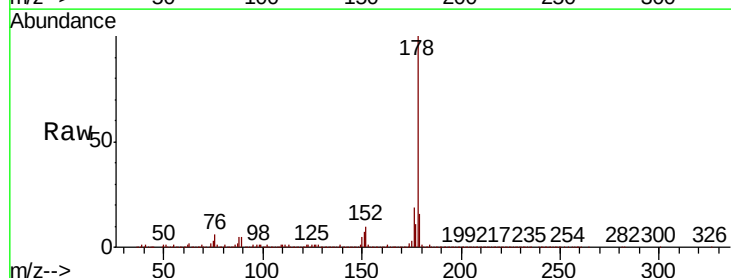
Tgt Ion:178 Resp: 1955675

Ion Ratio Lower Upper

178 100

176 18.5 14.5 21.7

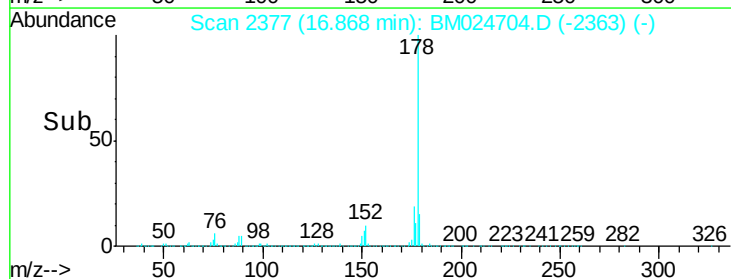
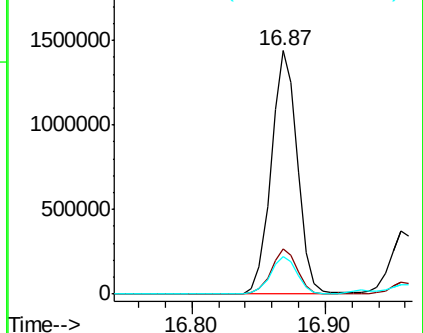
179 15.6 11.9 17.9

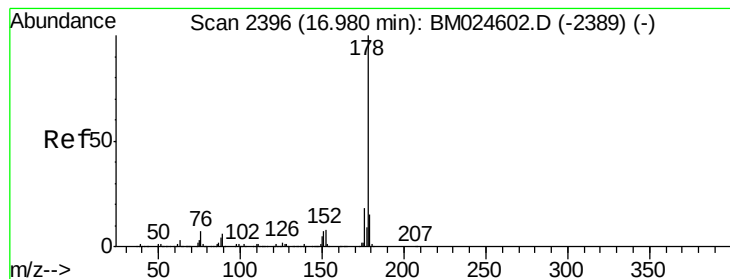


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.174 ng

RT: 16.96 min Scan# 2392

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampled :

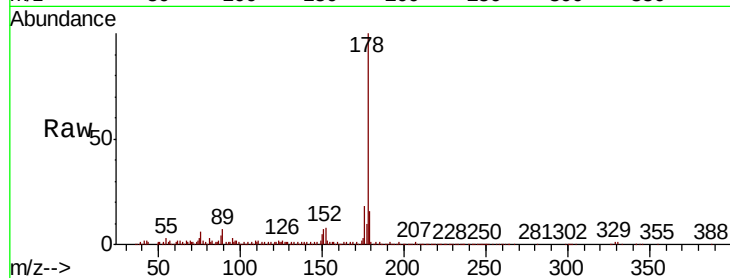
Tot Ion:178 Resp: 504652

Ion Ratio Lower Upper

178 100

176 18.2 14.3 21.5

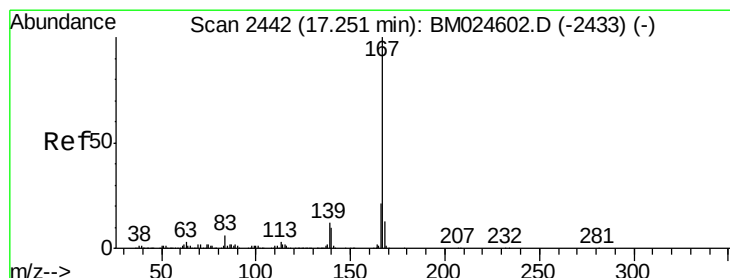
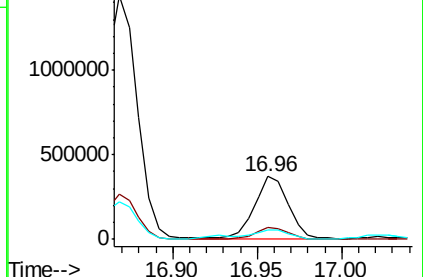
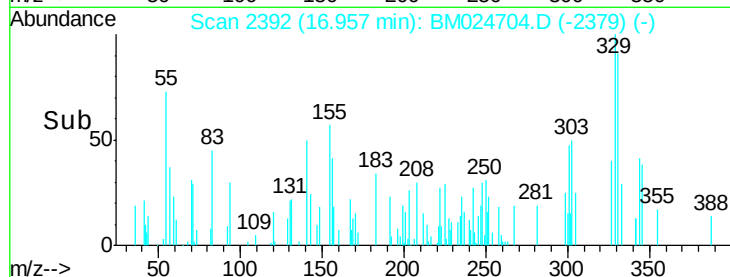
179 15.6 12.1 18.1



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: 3.970 ng

RT: 17.23 min Scan# 2439

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

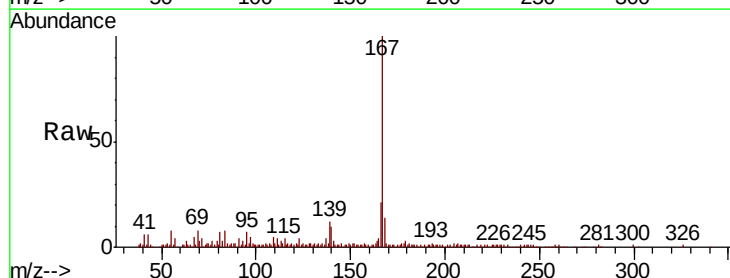
Tgt Ion:167 Resp: 254202

Ion Ratio Lower Upper

167 100

166 21.0 17.1 25.7

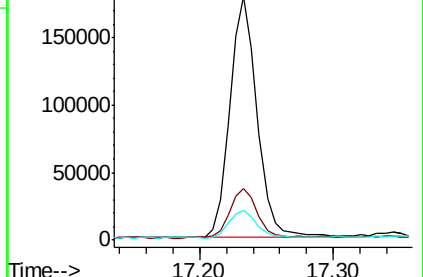
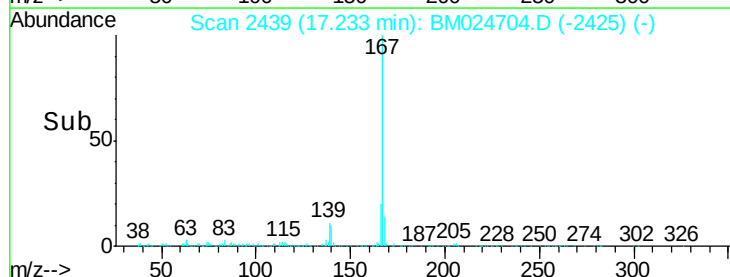
139 12.0 9.8 14.8

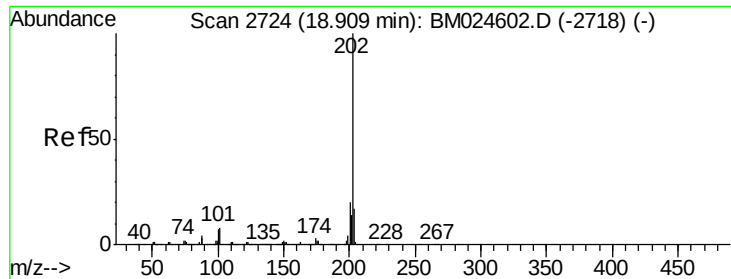


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 39.486 ng

RT: 18.90 min Scan# 2722

Delta R.T. -0.01 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampleId :

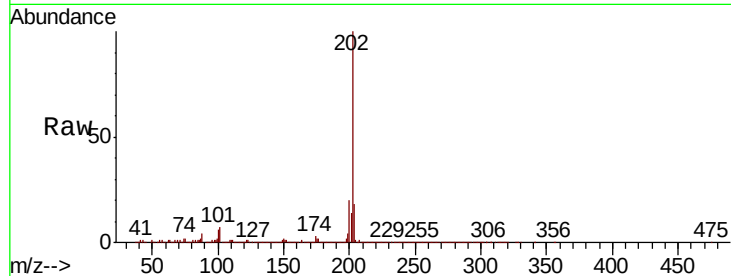
Tot Ion:202 Resp: 3542855

Ion Ratio Lower Upper

202 100

101 7.3 0.0 28.4

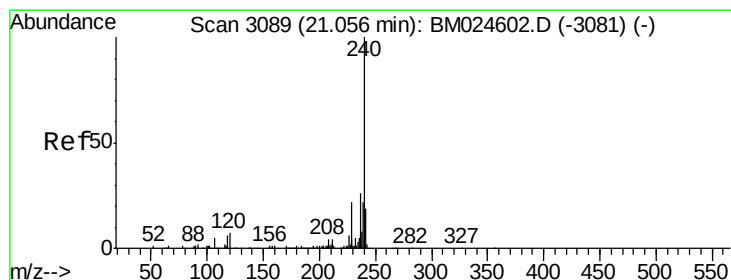
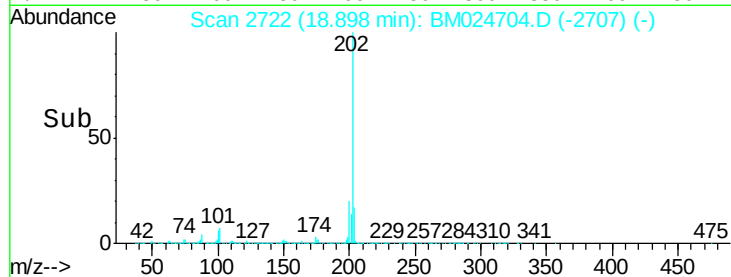
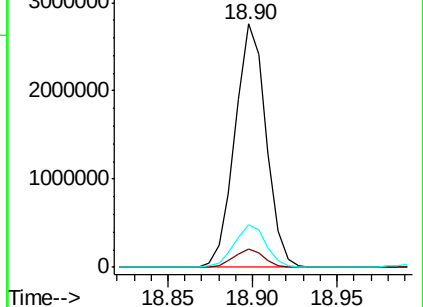
203 17.7 0.0 37.5



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: BM024704.D

Acq: 03 Feb 2020 18:12

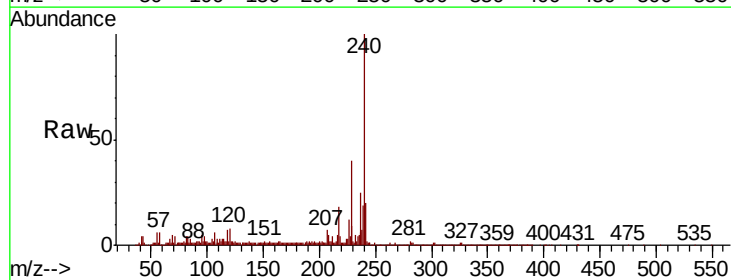
Tgt Ion:240 Resp: 1289226

Ion Ratio Lower Upper

240 100

120 7.5 5.3 7.9

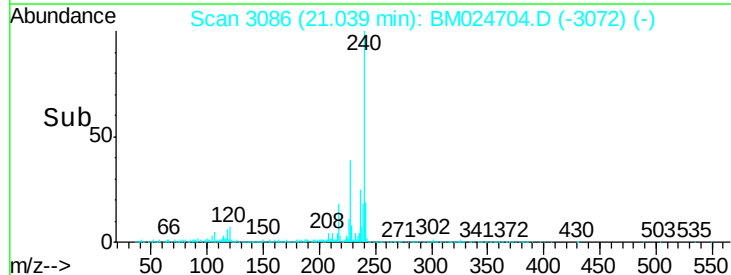
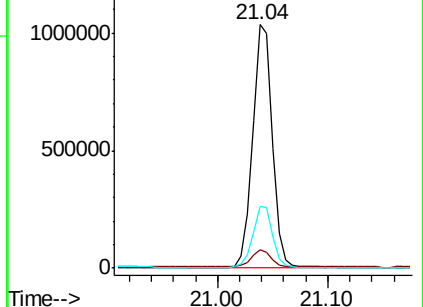
236 25.2 20.6 31.0

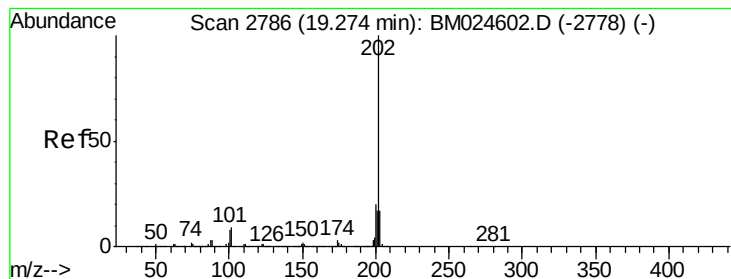


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 34.204 ng

RT: 19.26 min Scan# 2784

Delta R.T. -0.01 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

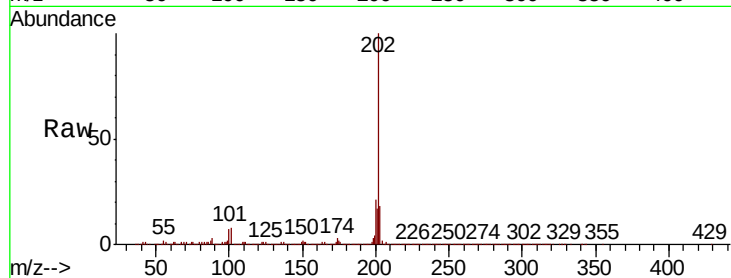
Instrument :

BNA_M

ClientSampled :

Tot Ion:202 Resp: 2907015

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.2	24.2
203	18.2	14.0	21.0

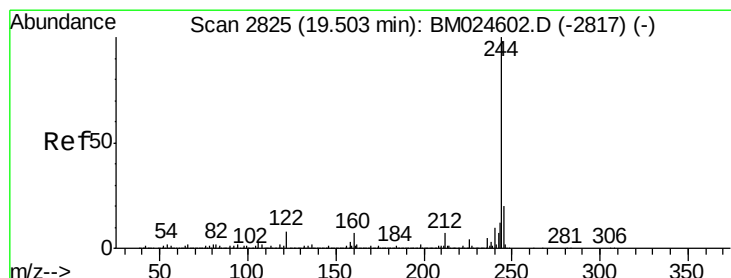
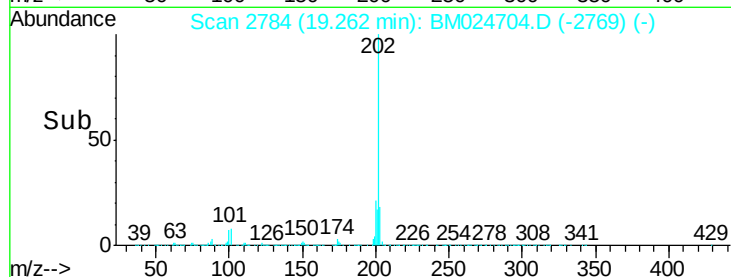
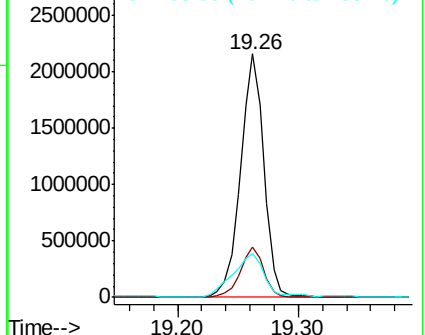


Abundance

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: 56.133 ng

RT: 19.49 min Scan# 2822

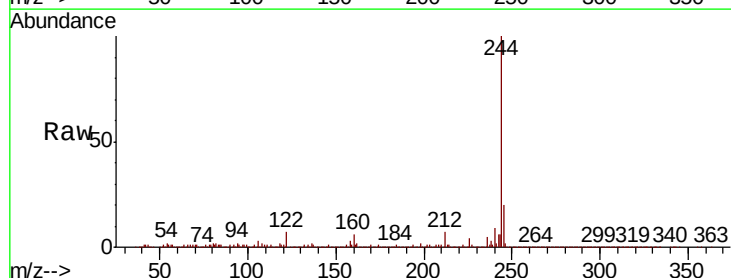
Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Tgt Ion:244 Resp: 3876347

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	7.4	6.2	9.4

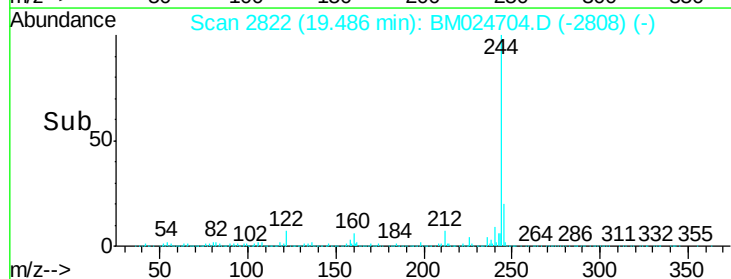
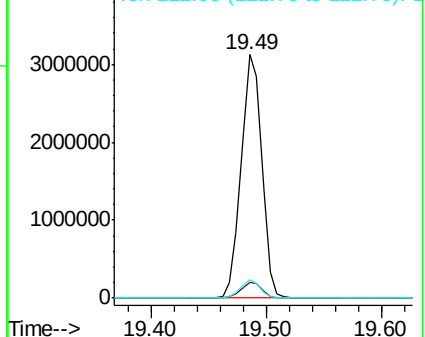


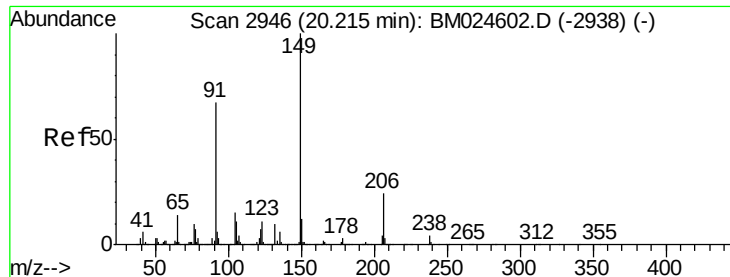
Abundance

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

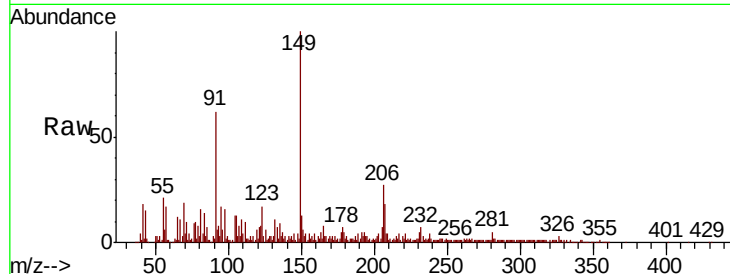




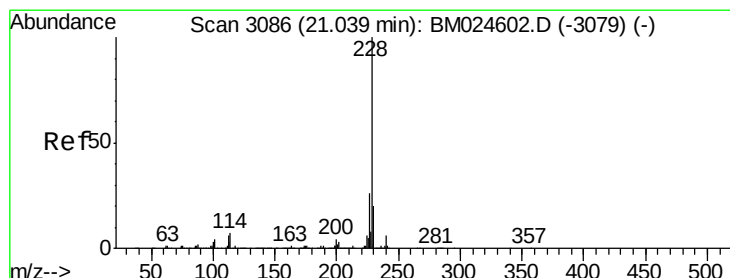
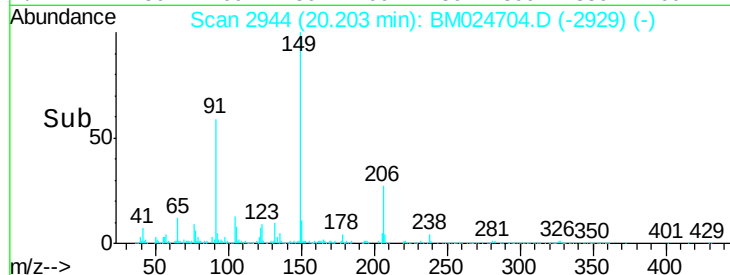
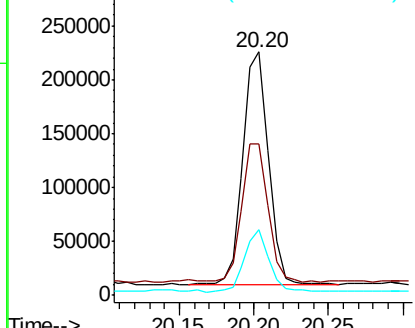
#80
Butylbenzylphthalate
Concen: 7.189 ng
RT: 20.20 min Scan# 2944
Delta R.T. -0.01 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
149	100		
91	62.1	53.9	80.9
206	27.2	19.0	28.6

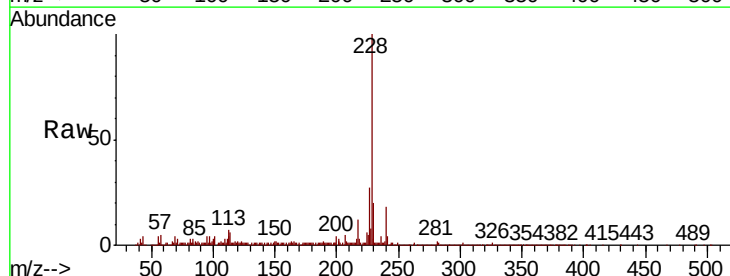


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BM
Ion 206.00 (205.70 to 206.70): E

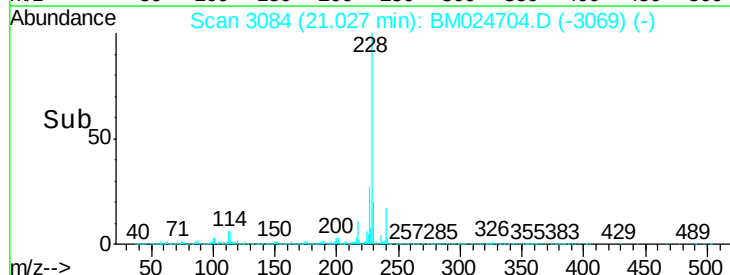
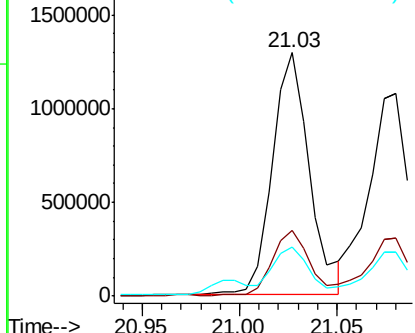


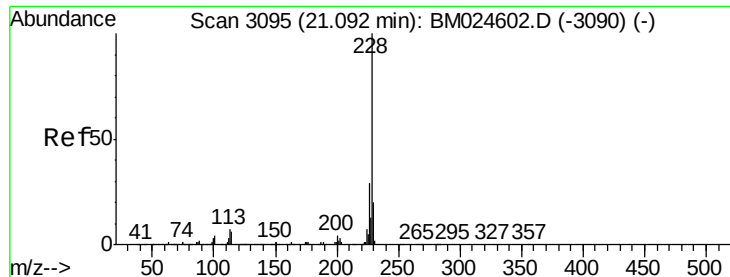
#81
Benzo(a)anthracene
Concen: 19.093 ng
RT: 21.03 min Scan# 3084
Delta R.T. -0.01 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.1	31.7
229	20.4	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: 17.674 ng

RT: 21.08 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampleId :

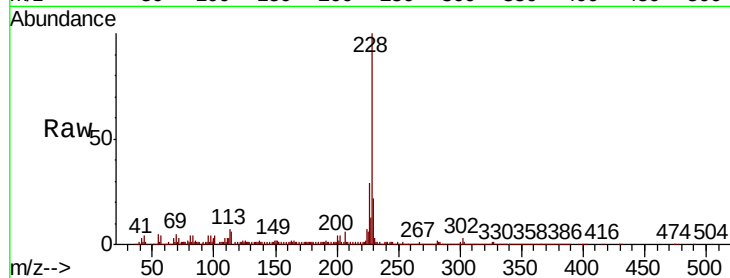
Tot Ion:228 Resp: 1509052

Ion Ratio Lower Upper

228 100

226 28.8 23.2 34.8

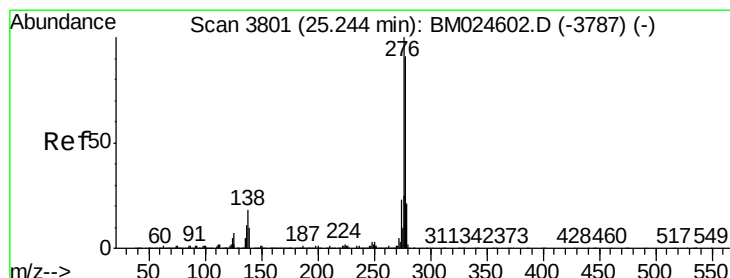
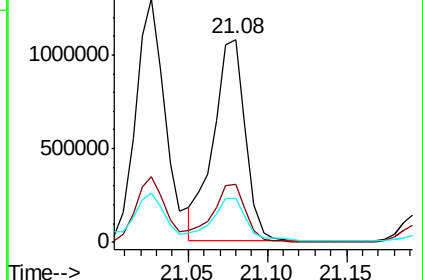
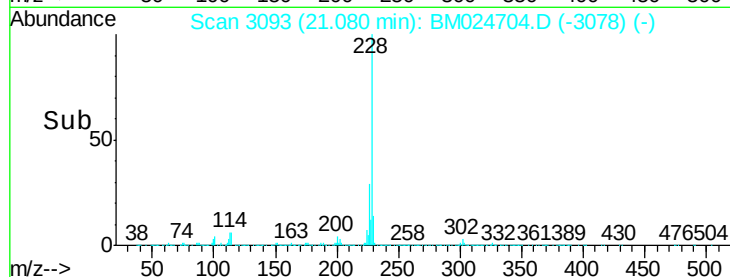
229 21.9 15.7 23.5



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: 10.543 ng

RT: 25.22 min Scan# 3797

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

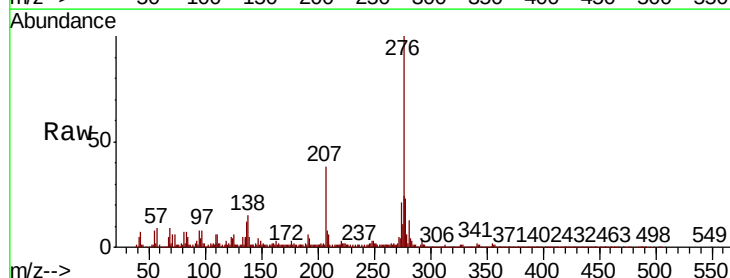
Tgt Ion:276 Resp: 981186

Ion Ratio Lower Upper

276 100

138 13.8 13.4 20.0

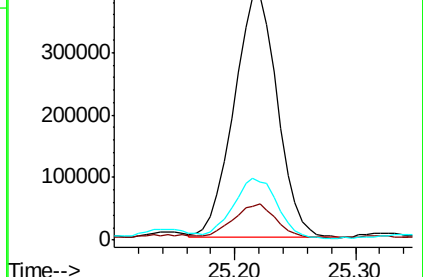
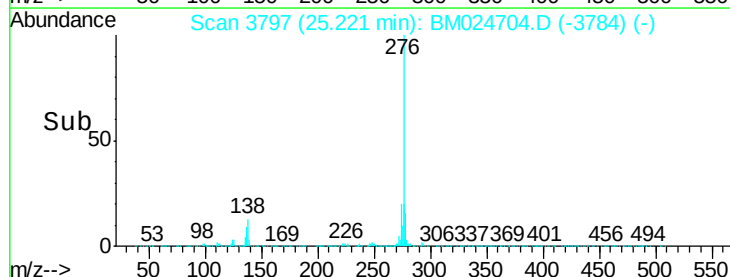
277 24.6 19.6 29.4

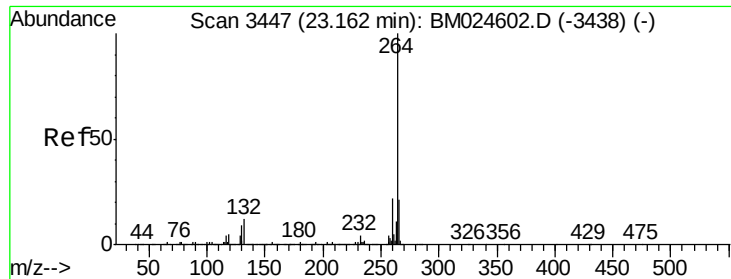


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.15 min Scan# 3445

Delta R.T. -0.01 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

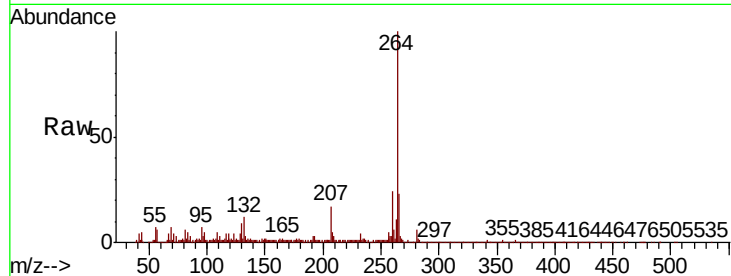
Instrument :

BNA_M

ClientSampled :

Tot Ion:264 Resp: 1524001

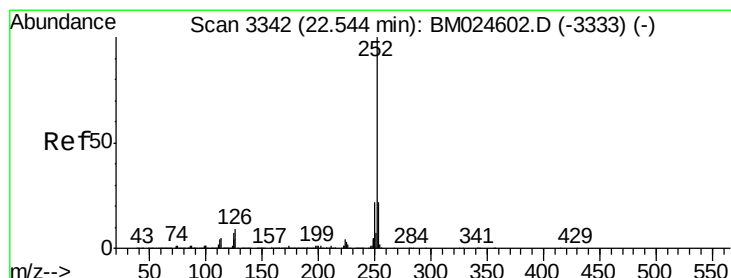
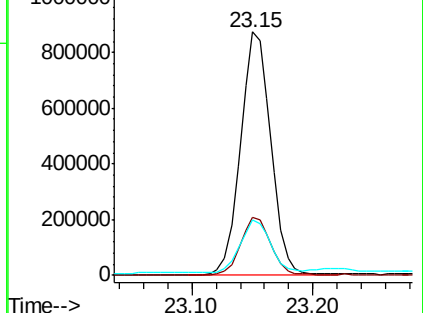
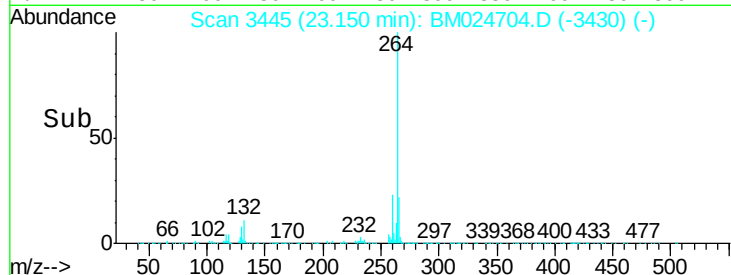
Ion	Ratio	Lower	Upper
264	100		
260	23.7	17.9	26.9
265	22.7	17.3	25.9



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: 28.153 ng

RT: 22.54 min Scan# 3341

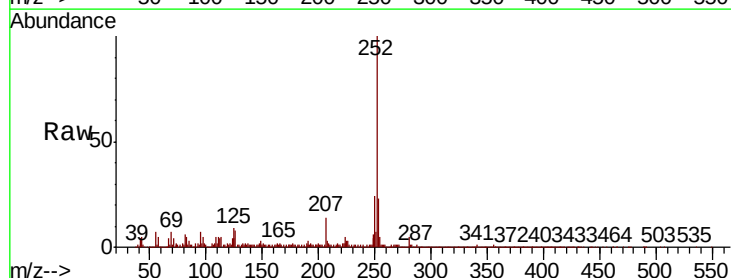
Delta R.T. -0.01 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Tgt Ion:252 Resp: 2782776

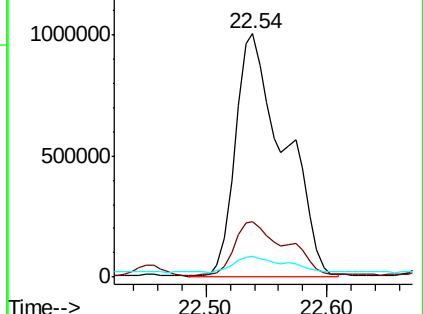
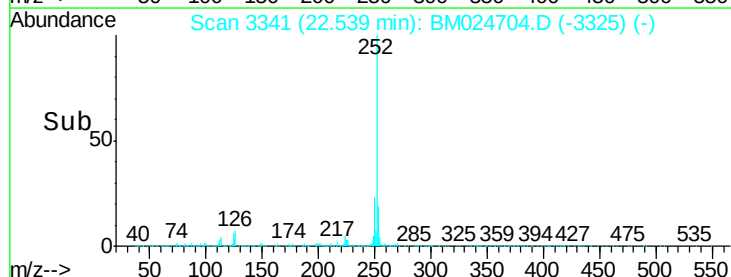
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	8.6	5.7	8.5#

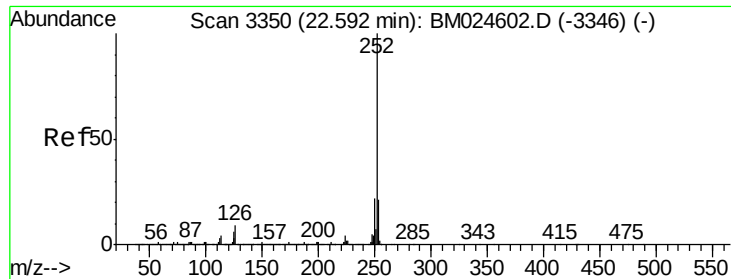


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

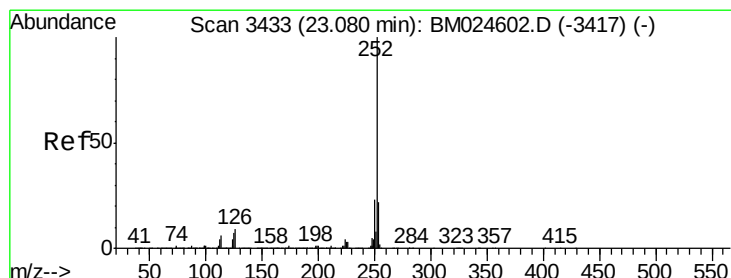
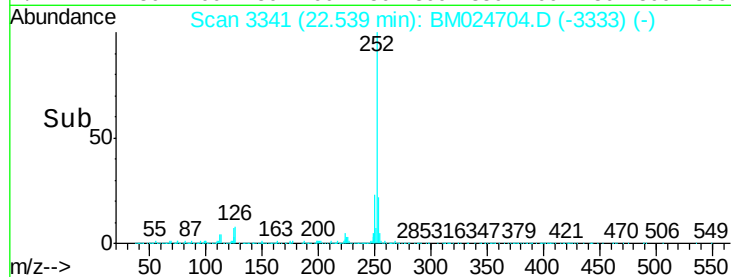
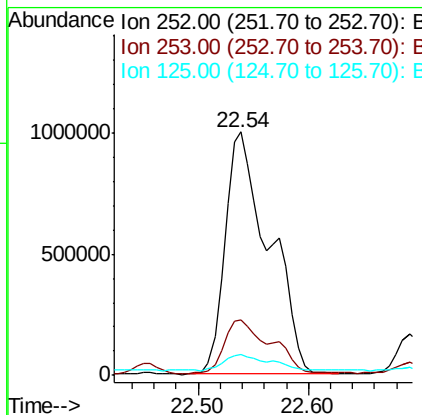
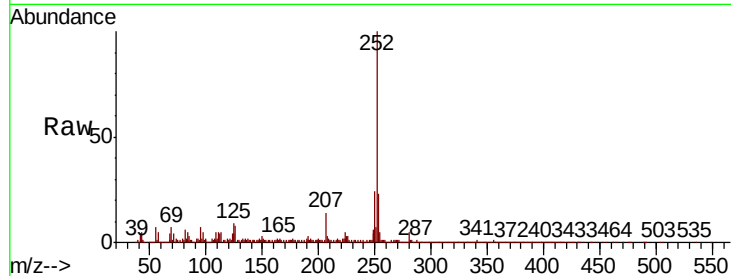




#89
Benzo(k)fluoranthene
Concen: 28.870 ng
RT: 22.54 min Scan# 3341
Delta R.T. -0.05 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

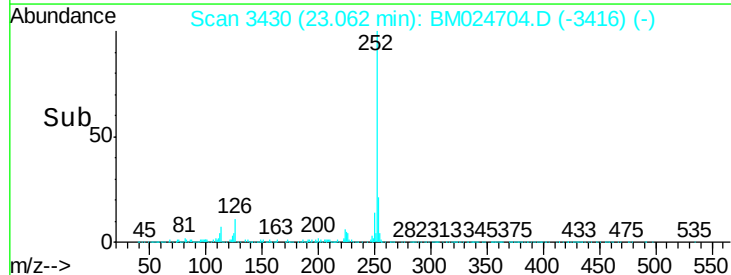
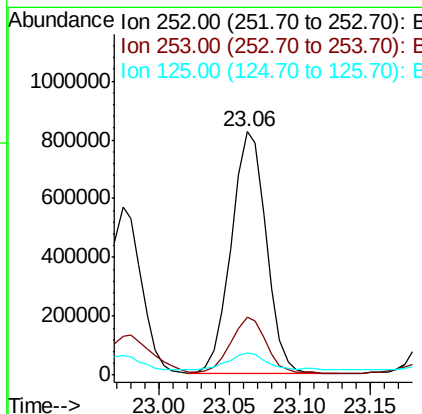
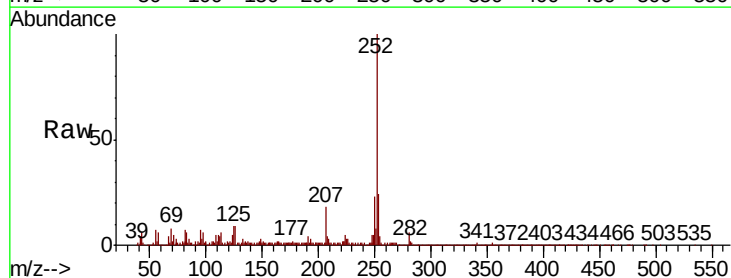
Instrument :
BNA_M
ClientSampled :

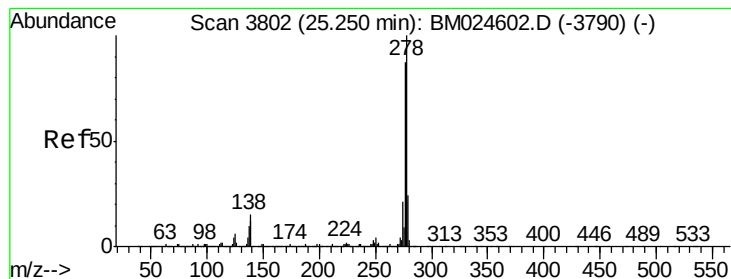
Tot Ion:252 Resp: 2785384
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 8.6 5.2 7.8#



#90
Benzo(a)pyrene
Concen: 15.768 ng
RT: 23.06 min Scan# 3430
Delta R.T. -0.02 min
Lab File: BM024704.D
Acq: 03 Feb 2020 18:12

Tgt Ion:252 Resp: 1416966
Ion Ratio Lower Upper
252 100
253 24.1 17.3 25.9
125 8.9 5.8 8.8#





#91

Dibenzo(a,h)anthracene

Concen: 3.007 ng

RT: 25.23 min Scan# 3798

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

Instrument :

BNA_M

ClientSampleId :

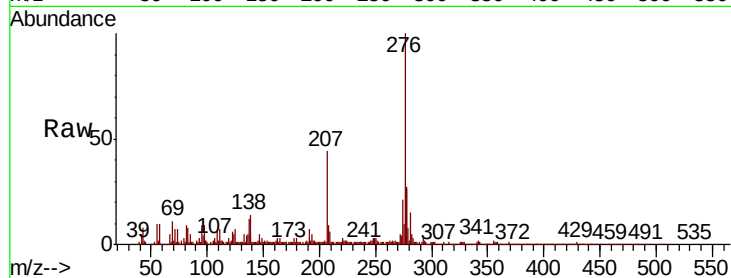
Tot Ion:278 Resp: 256452

Ion Ratio Lower Upper

278 100

139 16.2 9.3 13.9#

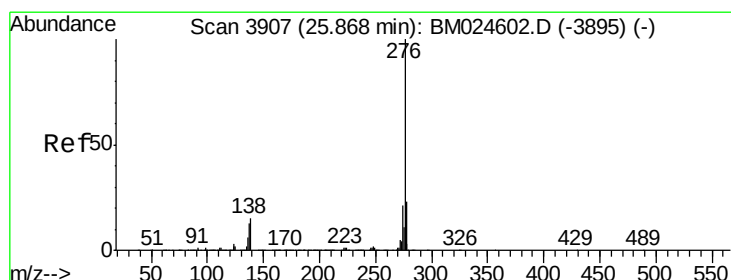
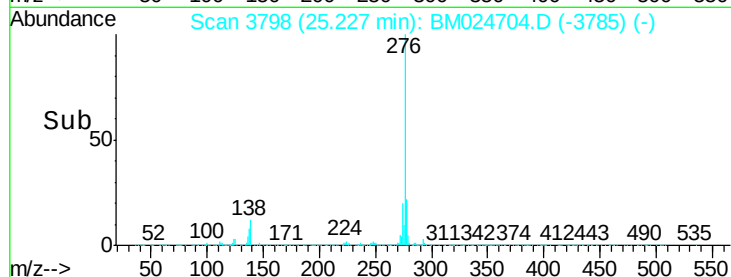
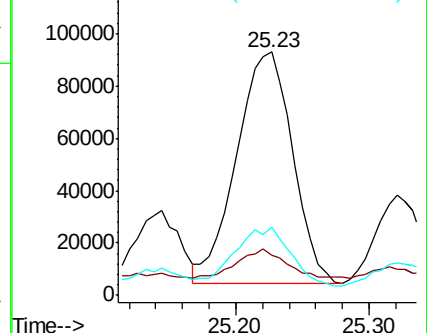
279 28.0 18.9 28.3



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(g,h,i)perylene

Concen: 11.957 ng

RT: 25.84 min Scan# 3903

Delta R.T. -0.02 min

Lab File: BM024704.D

Acq: 03 Feb 2020 18:12

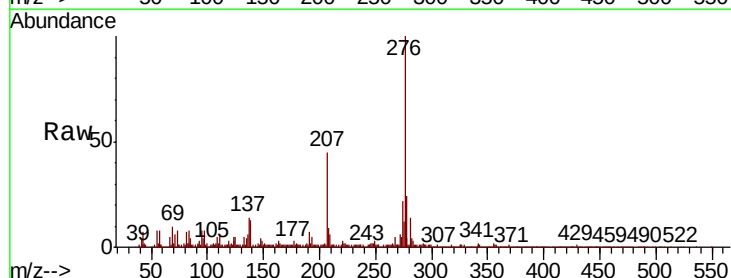
Tgt Ion:276 Resp: 926025

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 13.4 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

