

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM050819\
 Data File : BM020207.D
 Acq On : 08 May 2019 22:36
 Operator : JU/SJ
 Sample : K2643-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

Quant Time: May 09 02:09:14 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	7.79	152	164259	20.00	ng	0.00
21) Naphthalene-d8	10.58	136	596710	20.00	ng	0.00
39) Acenaphthene-d10	14.43	164	342639	20.00	ng	0.00
64) Phenanthrene-d10	17.18	188	790275	20.00	ng	0.00
76) Chrysene-d12	21.36	240	808482	20.00	ng	0.00
87) Perylene-d12	23.66	264	956549	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	177661	17.68	ng	0.00
7) Phenol-d6	6.95	99	238157	17.35	ng	0.00
23) Nitrobenzene-d5	8.95	82	166659	11.03	ng	0.00
42) 2,4,6-Tribromophenol	15.92	330	93304	17.54	ng	0.00
45) 2-Fluorobiphenyl	13.05	172	299675	10.76	ng	-0.01
79) Terphenyl-d14	19.80	244	457959	9.88	ng	0.00

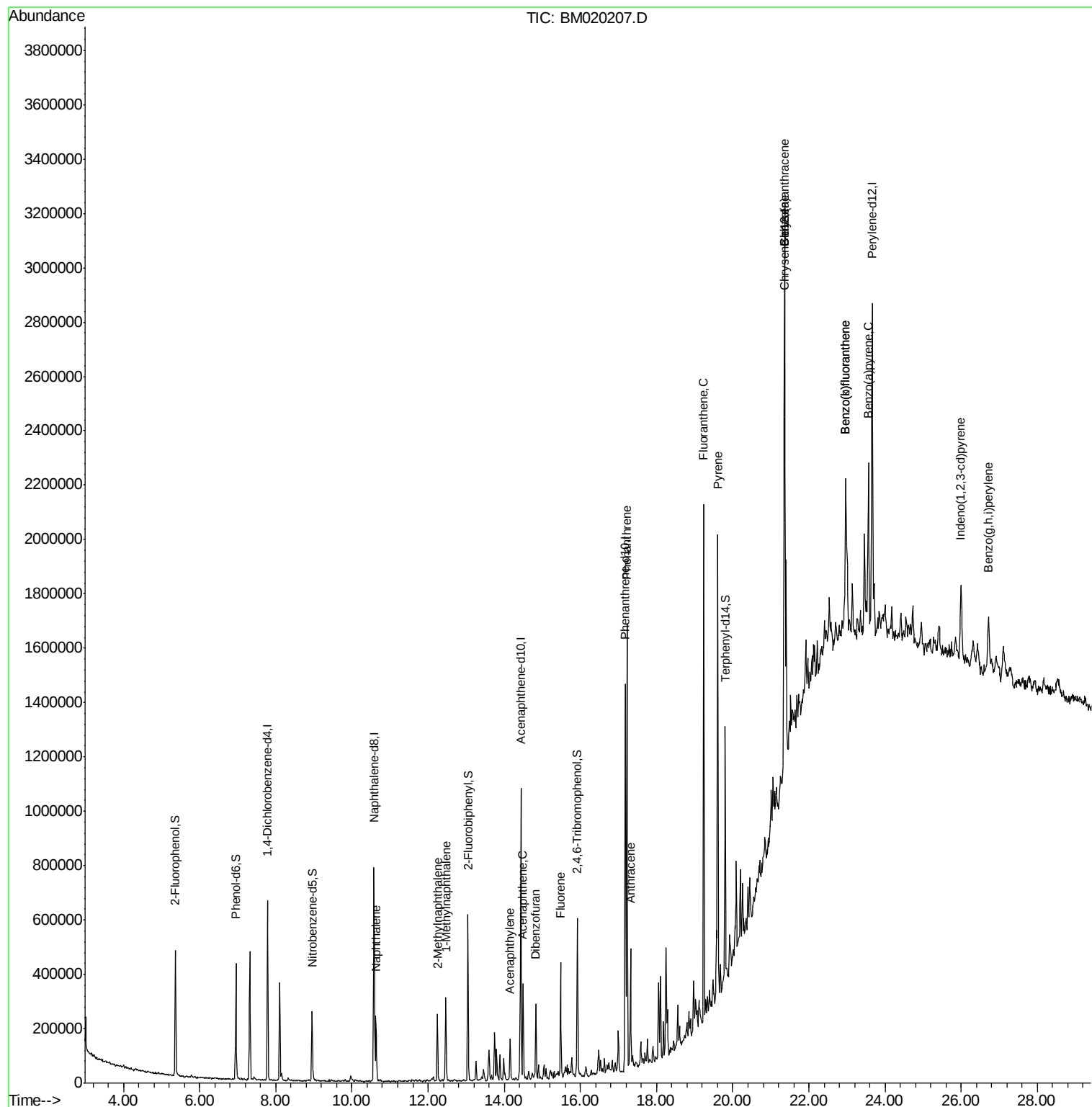
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.63	128	179978	5.812	ng	99
37) 2-Methylnaphthalene	12.25	142	107340	4.755	ng	97
38) 1-Methylnaphthalene	12.46	142	129988	5.888	ng	98
49) Acenaphthylene	14.16	152	80758	2.241	ng	96
52) Acenaphthene	14.49	154	121669	5.888	ng	99
55) Dibenzofuran	14.83	168	141735	4.066	ng	97
58) Fluorene	15.48	166	171815	6.002	ng	99
71) Phenanthrene	17.22	178	921480	21.123	ng	100
72) Anthracene	17.32	178	276658	6.343	ng	100
75) Fluoranthene	19.24	202	1091831	19.781	ng	99
78) Pyrene	19.60	202	1030924	18.992	ng	99
81) Benzo(a)anthracene	21.35	228	507900	8.958	ng	97
83) Chrysene	21.35	228	492597	8.958	ng	97
86) Indeno(1,2,3-cd)pyrene	26.00	276	283364	4.332	ng	# 100
88) Benzo(b)fluoranthene	22.97	252	570340	9.029	ng	# 92
89) Benzo(k)fluoranthene	22.97	252	563035	9.772	ng	# 92
90) Benzo(a)pyrene	23.56	252	447441	7.799	ng	# 93
92) Benzo(g,h,i)perylene	26.71	276	284191	5.017	ng	93

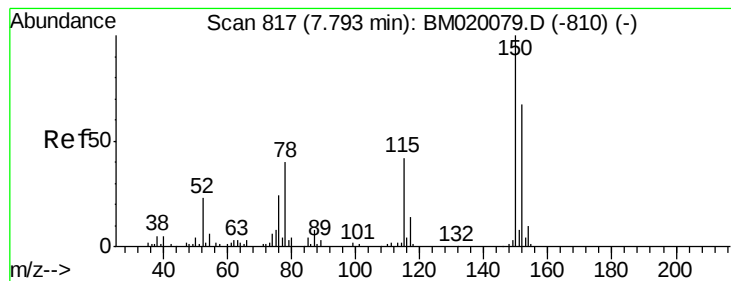
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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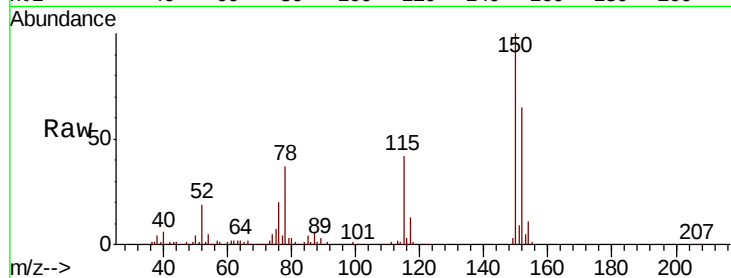


#1

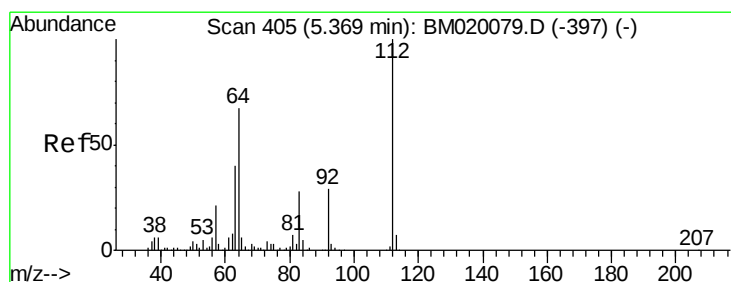
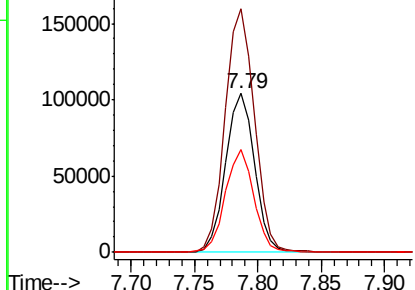
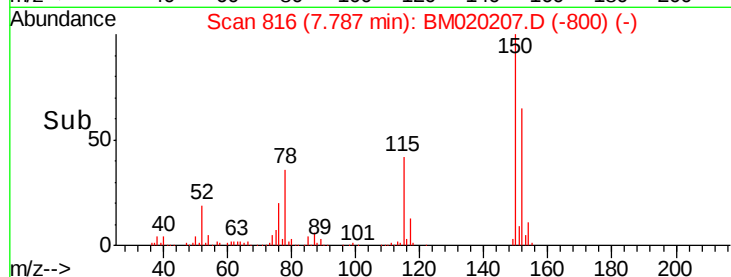
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.79 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

Tgt Ion:152 Resp: 164259
 Ion Ratio Lower Upper
 152 100
 150 153.4 119.8 179.8
 115 64.7 50.8 76.2



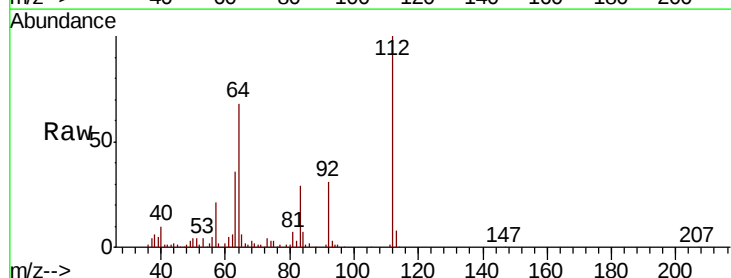
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



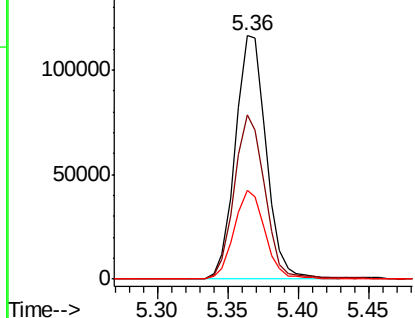
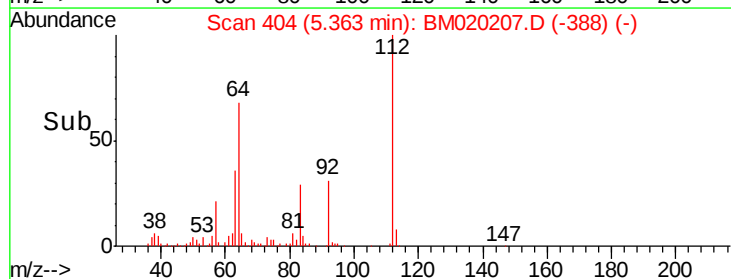
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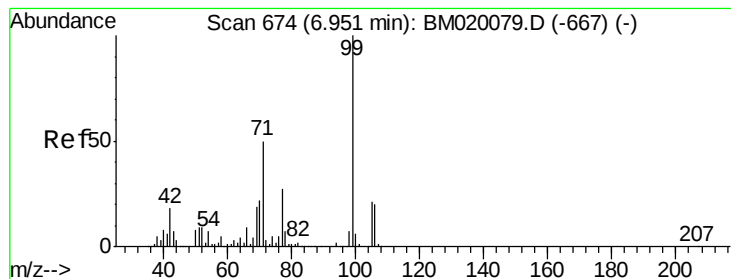
2-Fluorophenol
 Concen: 17.680 ng
 RT: 5.36 min Scan# 404
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Tgt Ion:112 Resp: 177661
 Ion Ratio Lower Upper
 112 100
 64 67.6 53.8 80.6
 63 36.2 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: 17.348 ng

RT: 6.95 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

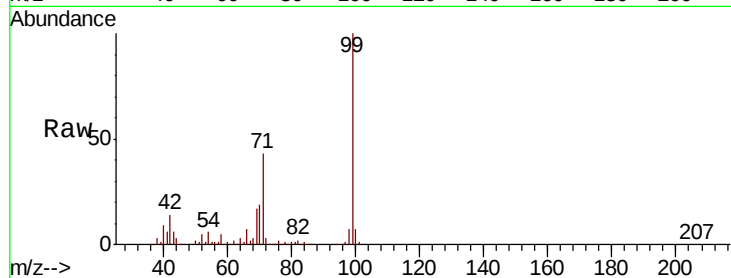
Tgt Ion: 99 Resp: 238157

Ion Ratio Lower Upper

99 100

42 13.8 14.2 21.2#

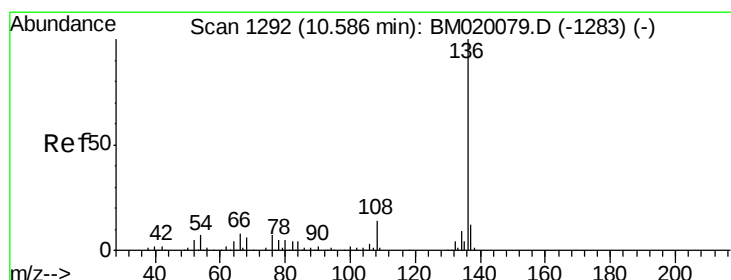
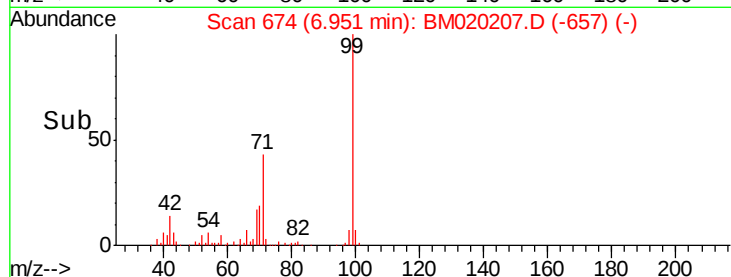
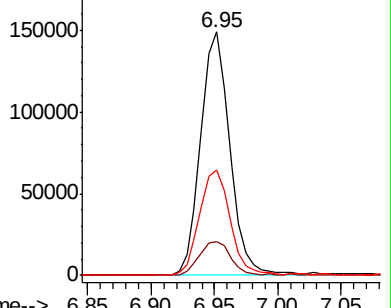
71 43.5 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM020079.D (-667) (-)

Ion 42.00 (41.70 to 42.70): BM020079.D (-667) (-)

Ion 71.00 (70.70 to 71.70): BM020079.D (-667) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.58 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Tgt Ion: 136 Resp: 596710

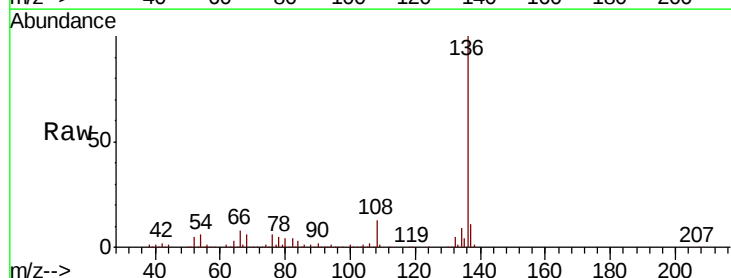
Ion Ratio Lower Upper

136 100

137 10.9 9.6 14.4

54 6.3 5.5 8.3

68 6.3 4.6 6.8

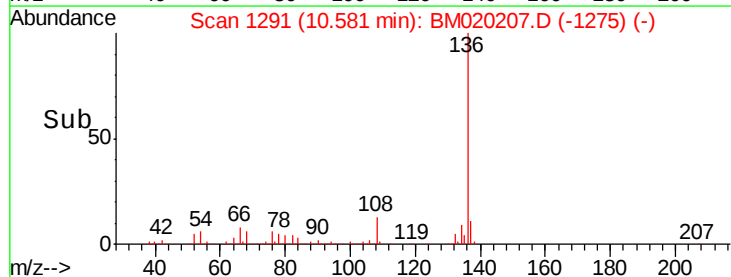
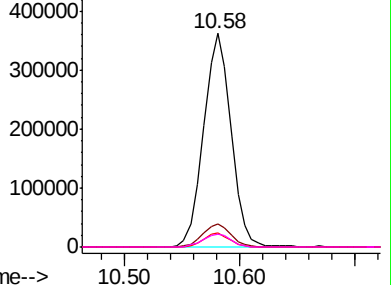


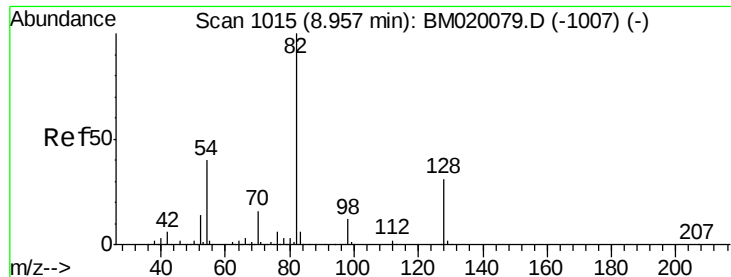
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

Ion 137.00 (136.70 to 137.70): BM020079.D (-1283) (-)

Ion 54.00 (53.70 to 54.70): BM020079.D (-1283) (-)

Ion 68.00 (67.70 to 68.70): BM020079.D (-1283) (-)

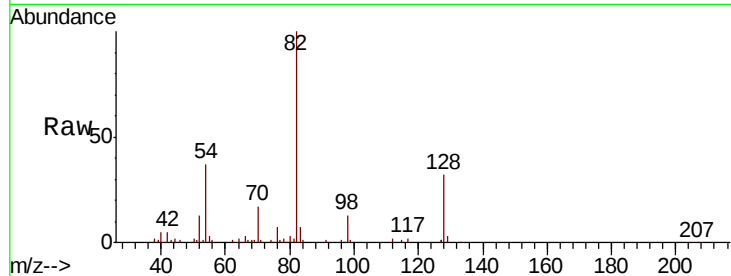




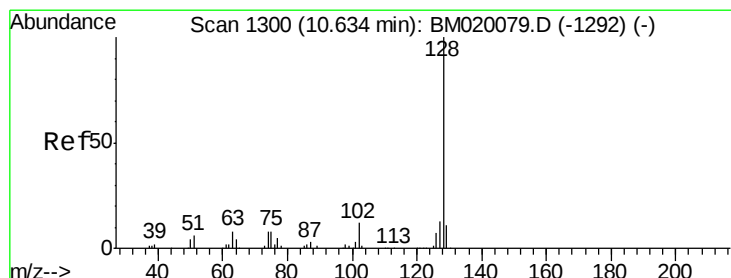
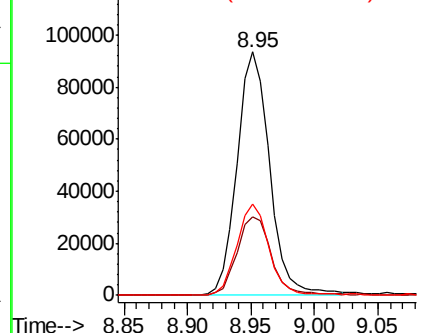
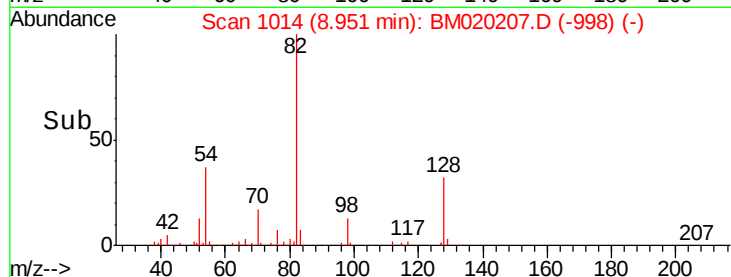
#23
 Nitrobenzene-d5
 Concen: 11.027 ng
 RT: 8.95 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Instrument :
 BNA_M
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 OR-03-050719-A

Tgt Ion	Ratio	Lower	Upper
82	100		
128	32.2	25.2	37.8
54	37.5	31.9	47.9

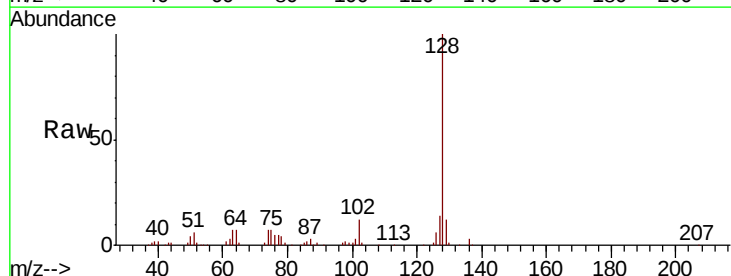


Abundance Ion 82.00 (81.70 to 82.70): BM020207.D (-998) (-)

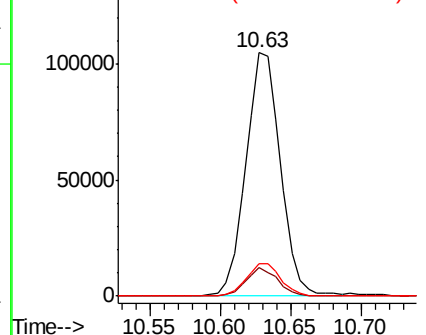
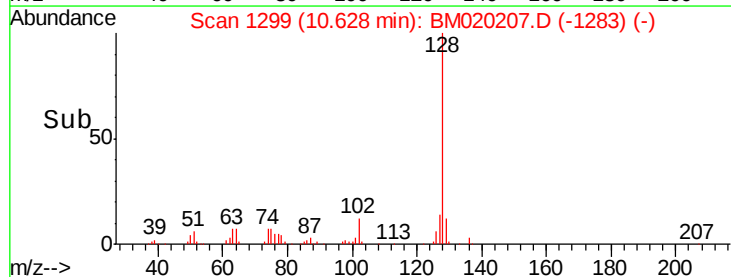


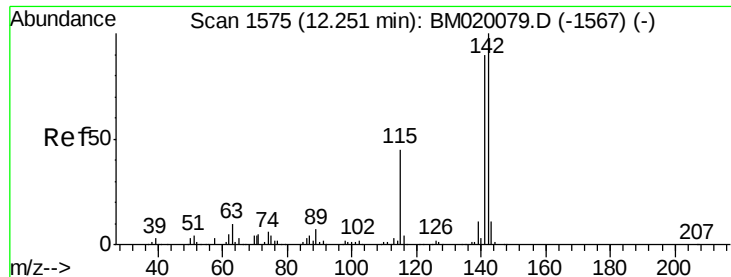
#31
 Naphthalene
 Concen: 5.812 ng
 RT: 10.63 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.0	13.4
127	13.5	10.4	15.6



Abundance Ion 128.00 (127.70 to 128.70): BM020207.D (-1283) (-)





#37

2-Methylnaphthalene

Concen: 4.755 ng

RT: 12.25 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

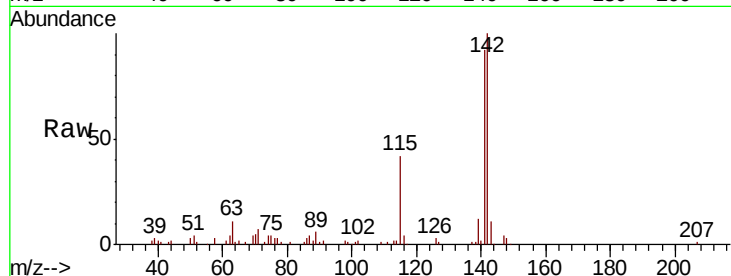
Tgt Ion:142 Resp: 107340

Ion Ratio Lower Upper

142 100

141 91.7 71.6 107.4

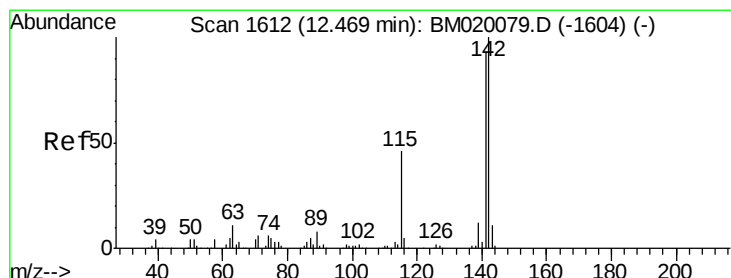
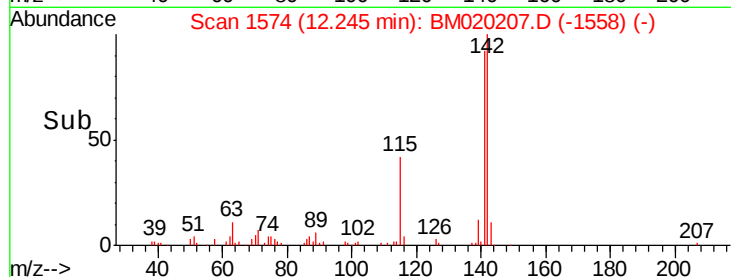
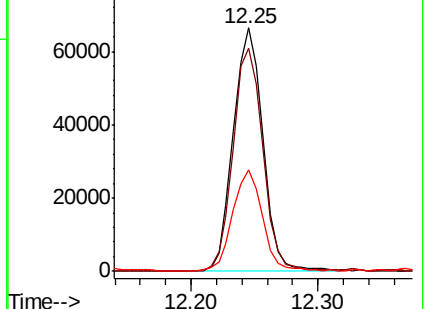
115 41.6 35.8 53.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 5.888 ng

RT: 12.46 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

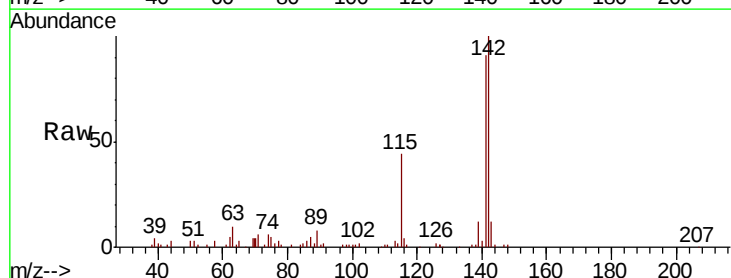
Tgt Ion:142 Resp: 129988

Ion Ratio Lower Upper

142 100

141 91.3 74.8 112.2

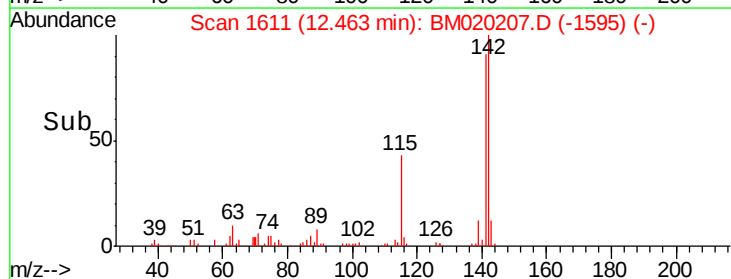
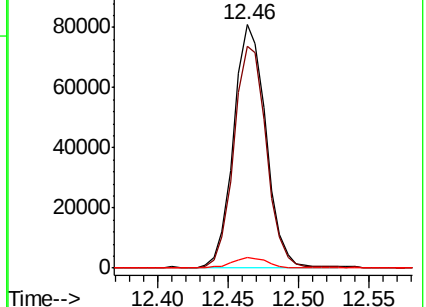
116 4.3 3.9 5.9

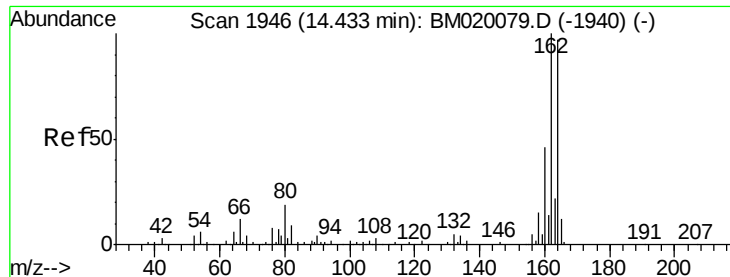


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.43 min Scan# 1946

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

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OR-03-050719-A

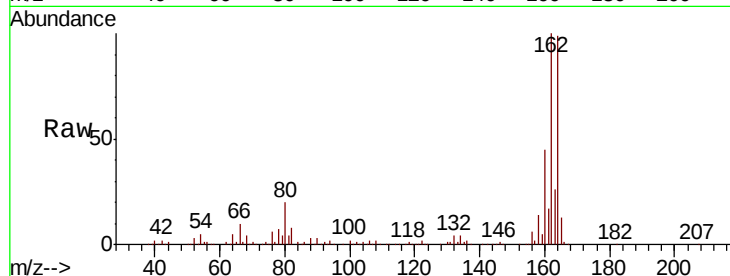
Tgt Ion:164 Resp: 342639

Ion Ratio Lower Upper

164 100

162 101.4 82.2 123.2

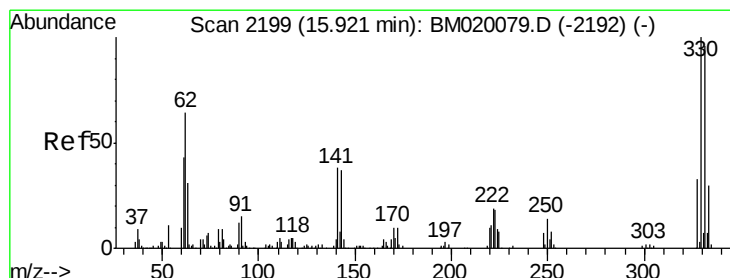
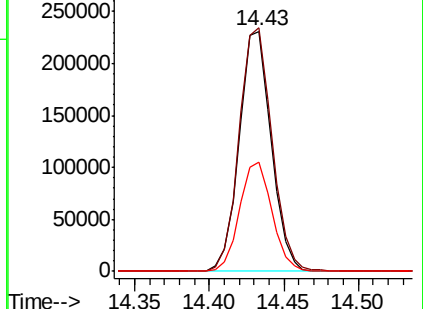
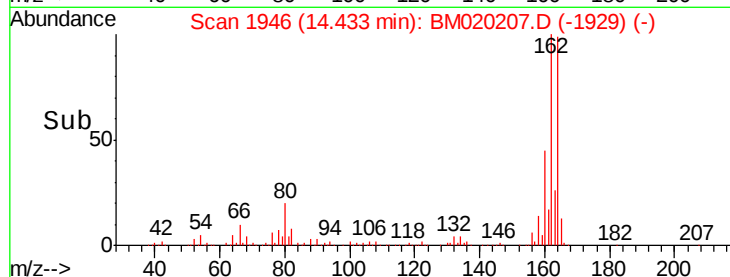
160 45.4 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 17.544 ng

RT: 15.92 min Scan# 2199

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

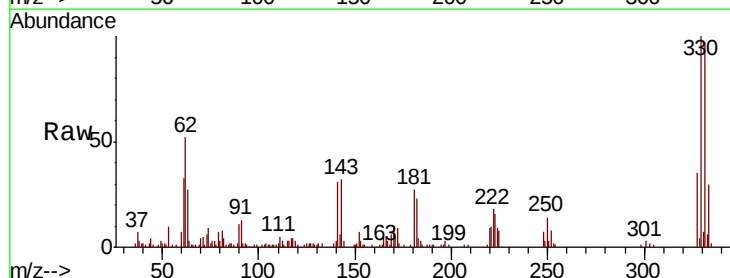
Tgt Ion:330 Resp: 93304

Ion Ratio Lower Upper

330 100

332 98.0 76.8 115.2

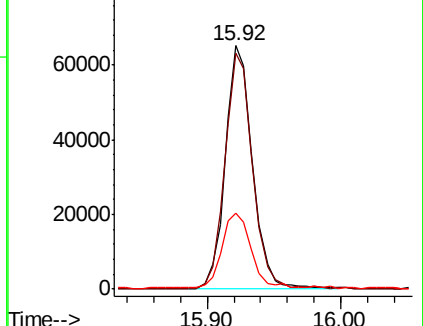
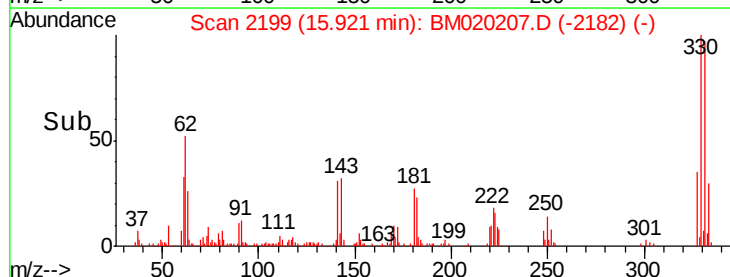
141 33.1 29.2 43.8

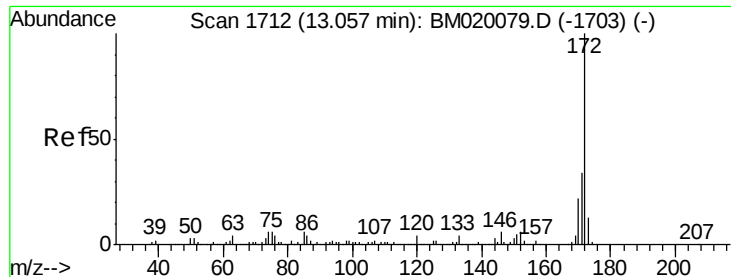


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

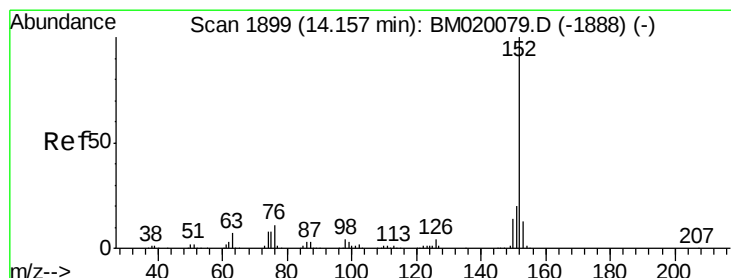
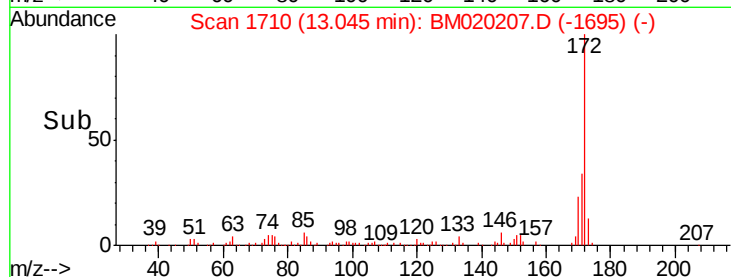
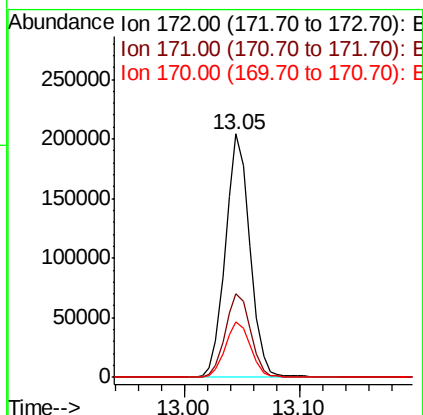
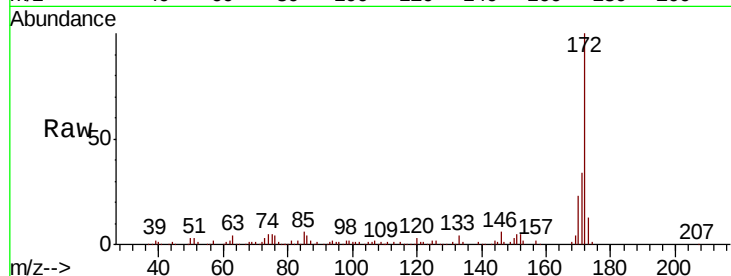




#45
2-Fluorobiphenyl
Concen: 10.761 ng
RT: 13.05 min Scan# 1710
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

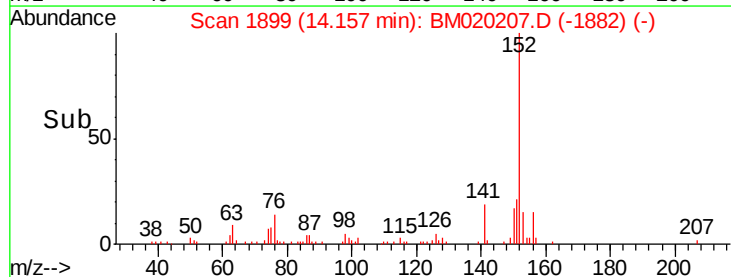
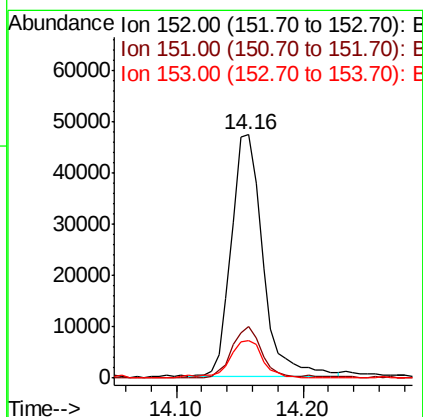
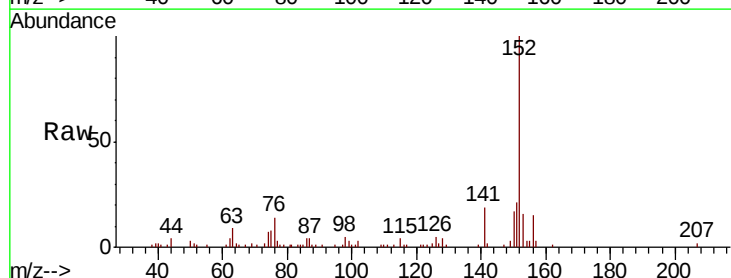
Instrument :
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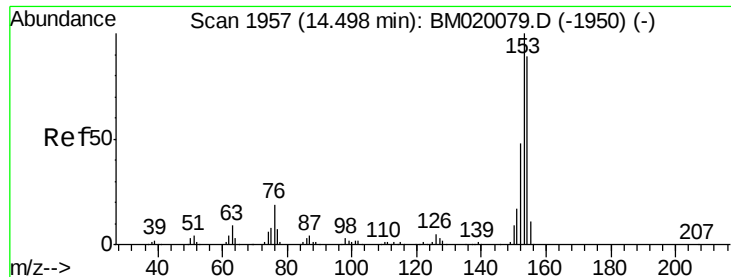
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.3	40.9
170	23.0	17.9	26.9



#49
Acenaphthylene
Concen: 2.241 ng
RT: 14.16 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.2	24.2
153	15.6	10.6	16.0





#52

Acenaphthene

Concen: 5.888 ng

RT: 14.49 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

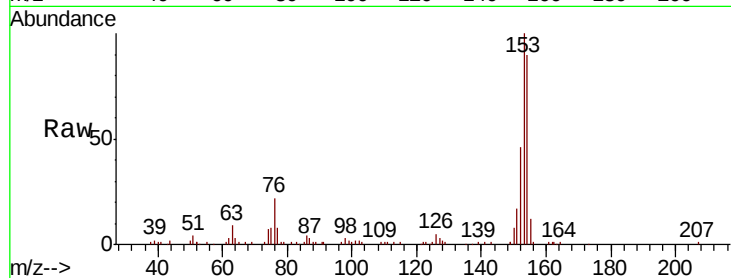
Tgt Ion:154 Resp: 121669

Ion Ratio Lower Upper

154 100

153 111.7 90.2 135.2

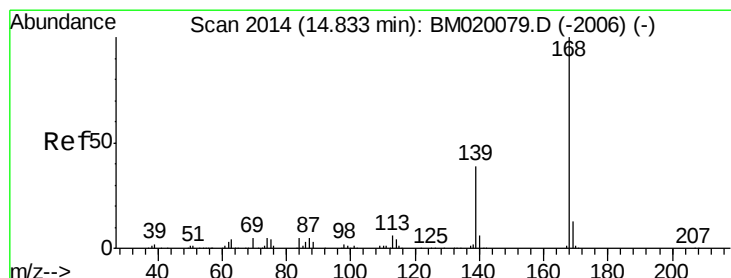
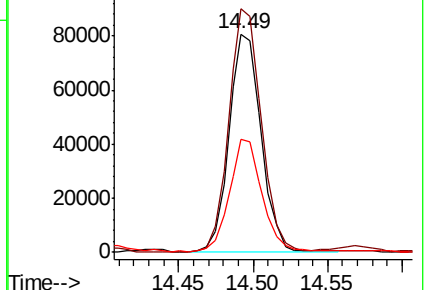
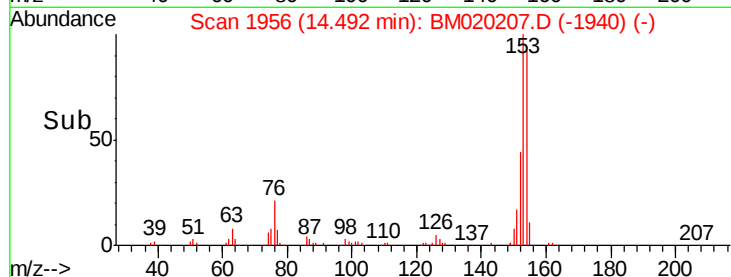
152 51.9 43.0 64.4



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: 4.066 ng

RT: 14.83 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

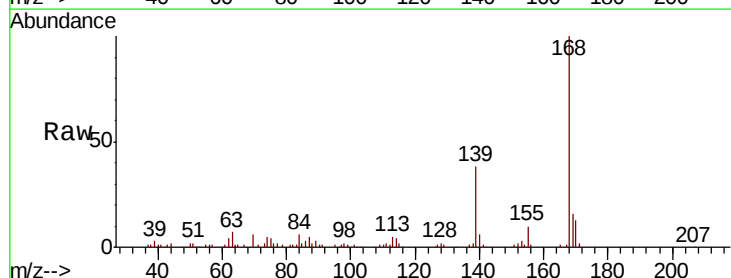
Tgt Ion:168 Resp: 141735

Ion Ratio Lower Upper

168 100

139 37.9 31.1 46.7

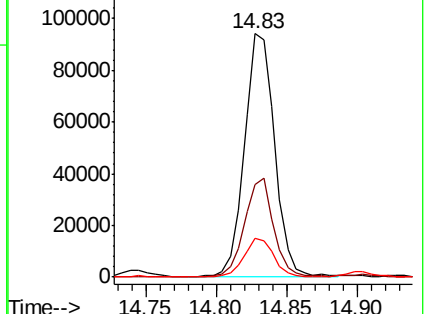
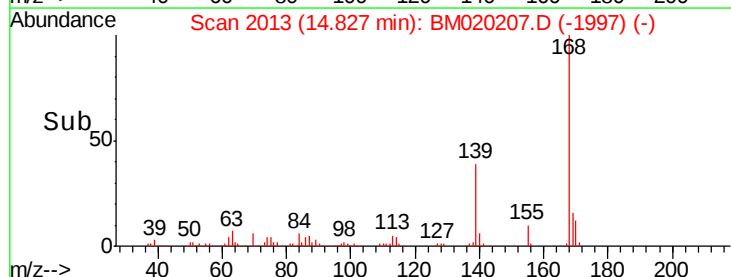
169 16.0 10.6 16.0

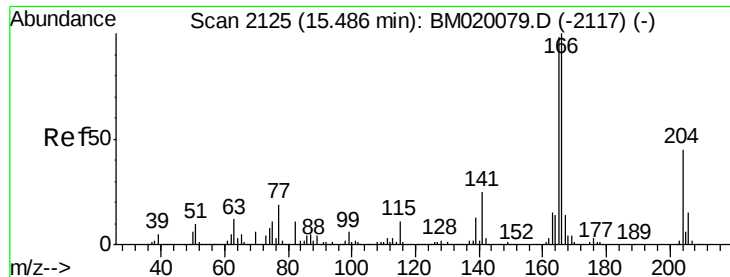


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 6.002 ng

RT: 15.48 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

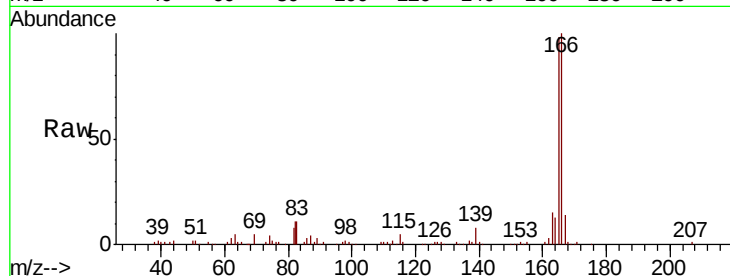
Tgt Ion:166 Resp: 171815

Ion Ratio Lower Upper

166 100

165 98.2 78.2 117.2

167 14.1 11.0 16.4

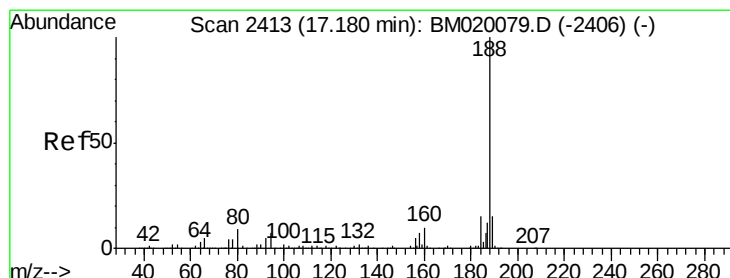
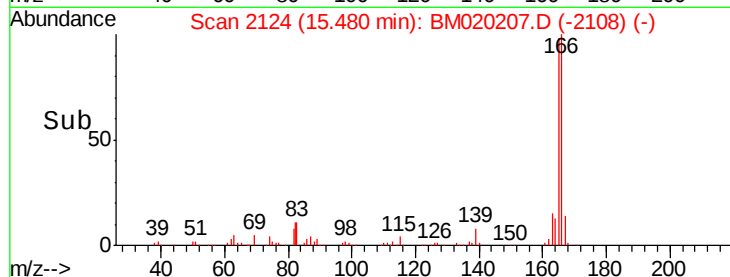
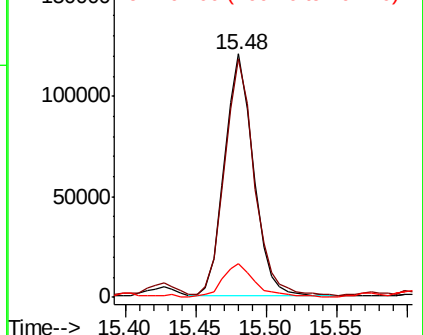


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.18 min Scan# 2413

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

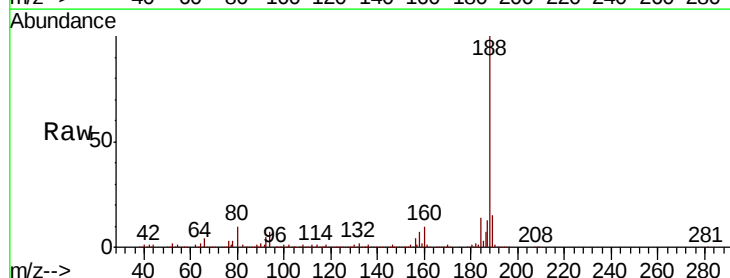
Tgt Ion:188 Resp: 790275

Ion Ratio Lower Upper

188 100

94 7.5 5.8 8.6

80 9.5 7.4 11.2

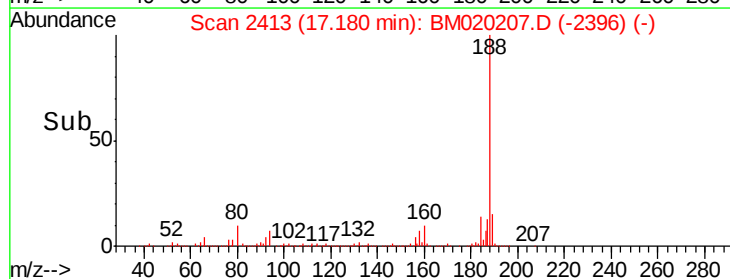
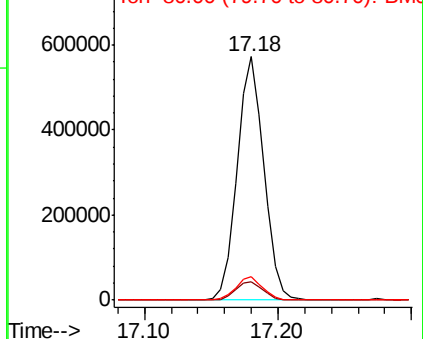


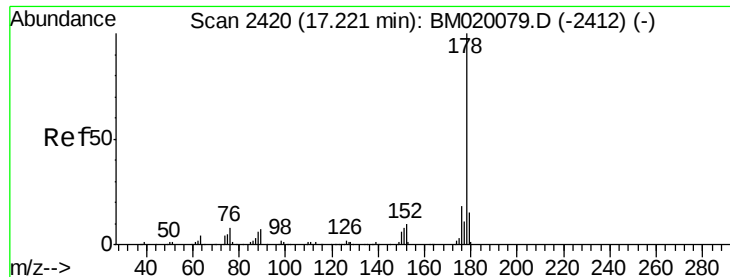
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM

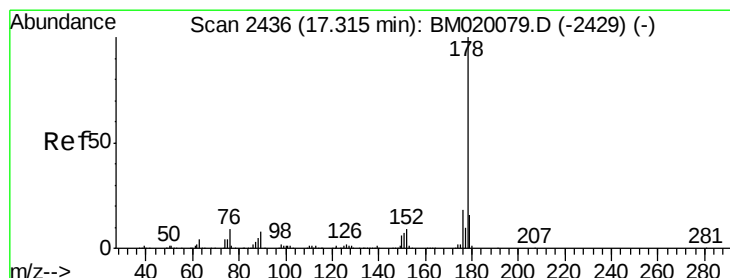
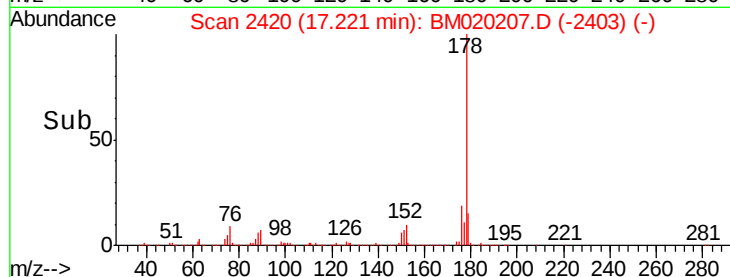
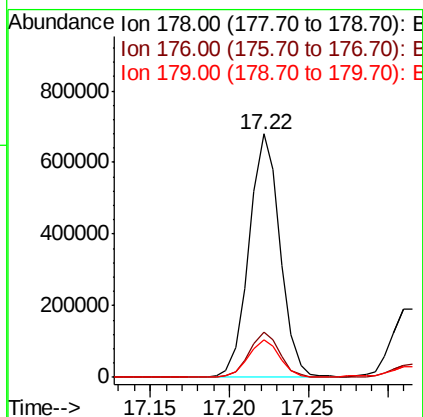
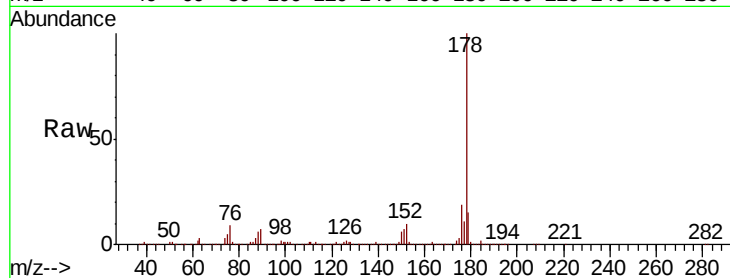




#71
Phenanthrene
Concen: 21.123 ng
RT: 17.22 min Scan# 2420
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

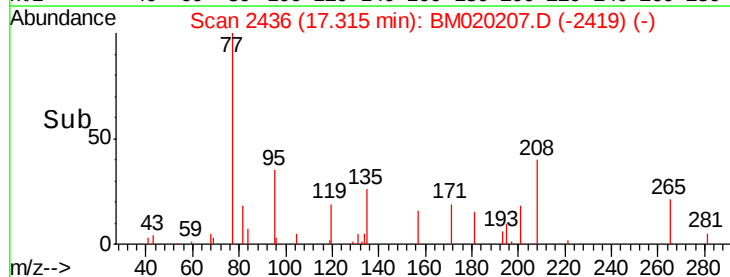
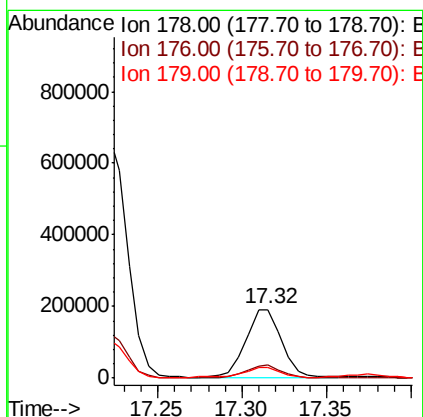
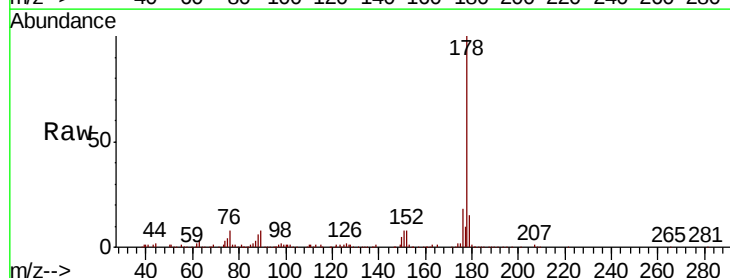
Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

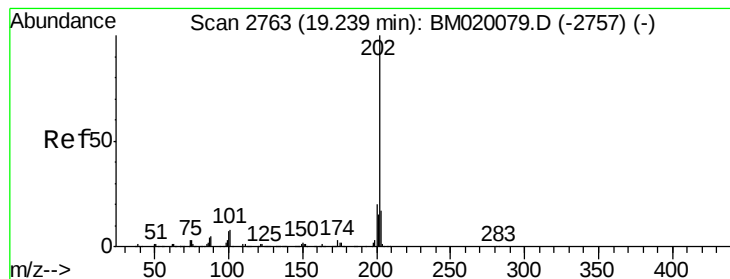
Tgt Ion:178 Resp: 921480
Ion Ratio Lower Upper
178 100
176 18.5 14.6 21.8
179 15.5 12.4 18.6



#72
Anthracene
Concen: 6.343 ng
RT: 17.32 min Scan# 2436
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion:178 Resp: 276658
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.3 12.4 18.6





#75

Fluoranthene

Concen: 19.781 ng

RT: 19.24 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

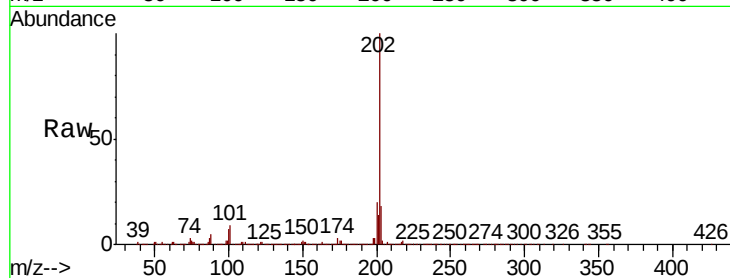
Tgt Ion:202 Resp: 1091831

Ion Ratio Lower Upper

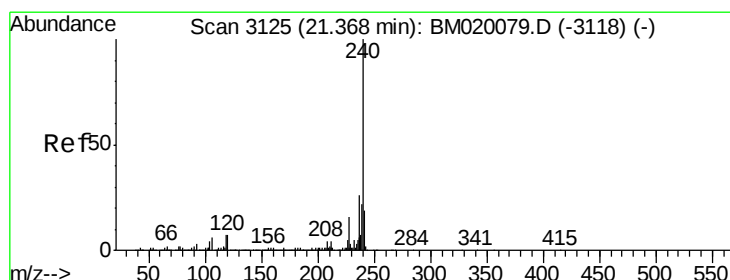
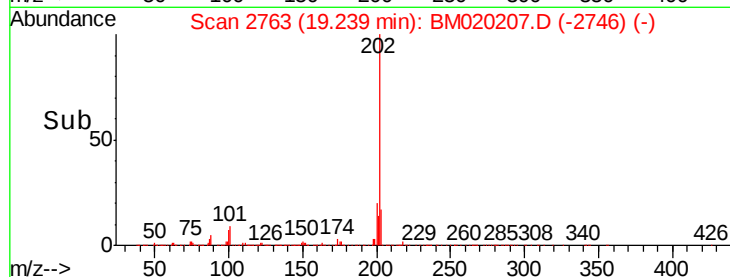
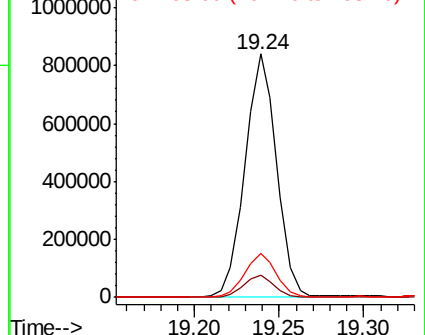
202 100

101 8.9 0.0 28.4

203 17.8 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# 3124

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

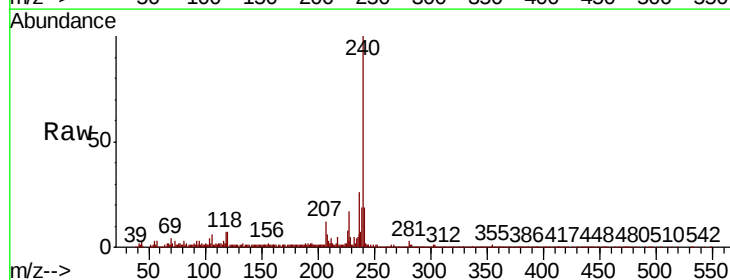
Tgt Ion:240 Resp: 808482

Ion Ratio Lower Upper

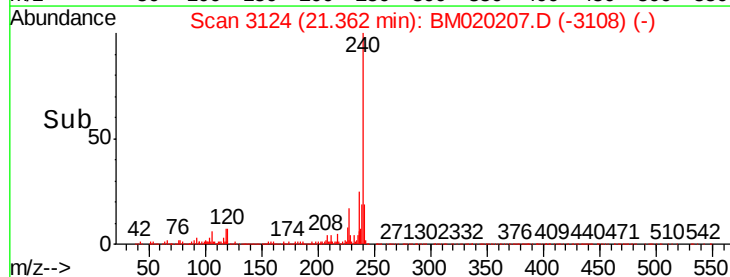
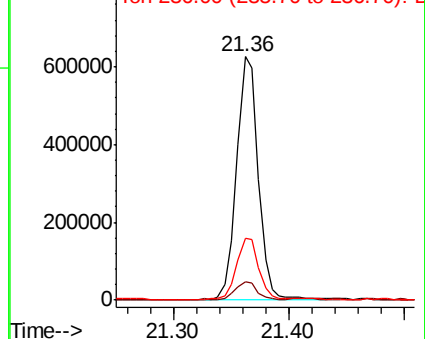
240 100

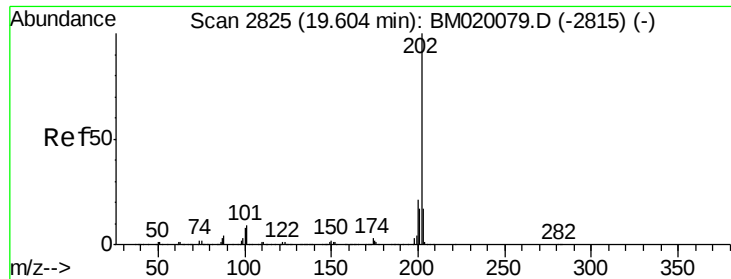
120 7.3 5.6 8.4

236 25.5 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

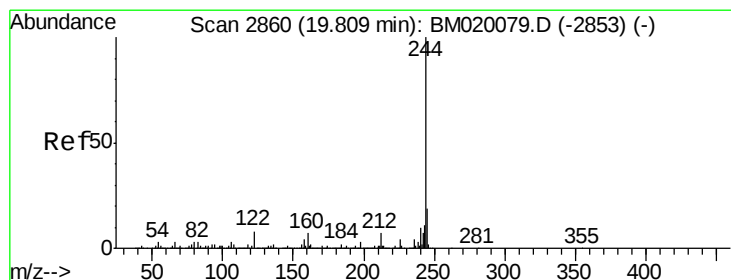
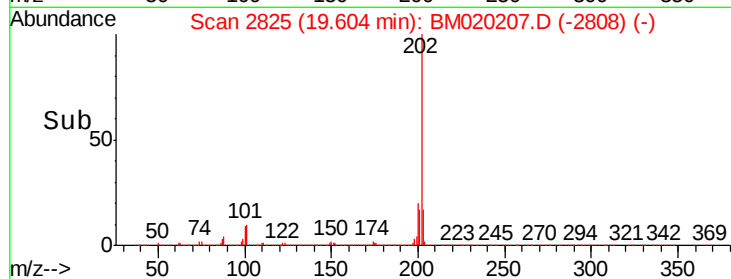
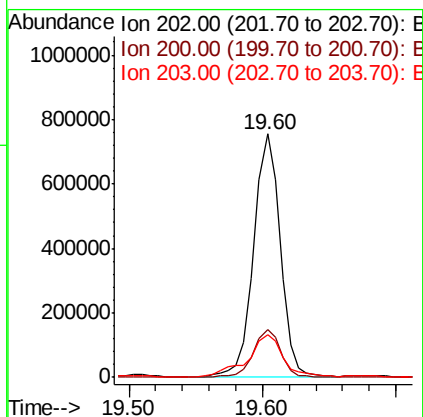
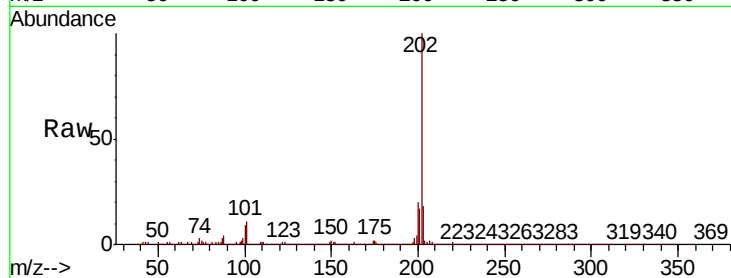




#78
 Pyrene
 Concen: 18.992 ng
 RT: 19.60 min Scan# 2825
 Delta R.T. 0.00 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

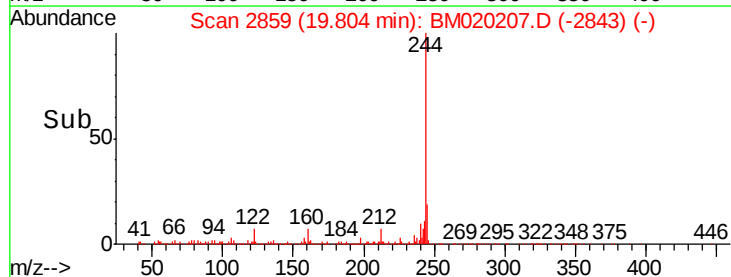
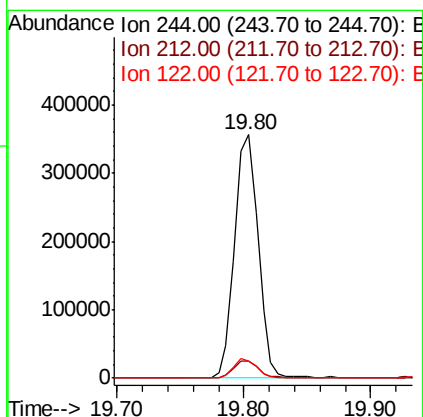
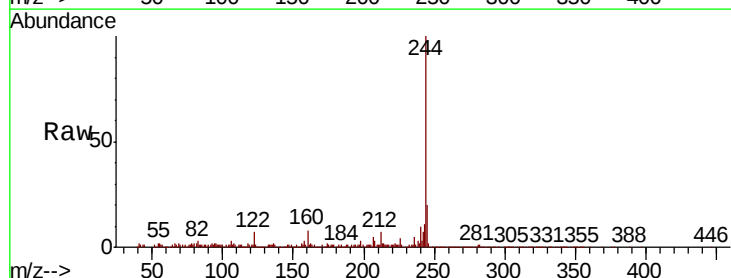
Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

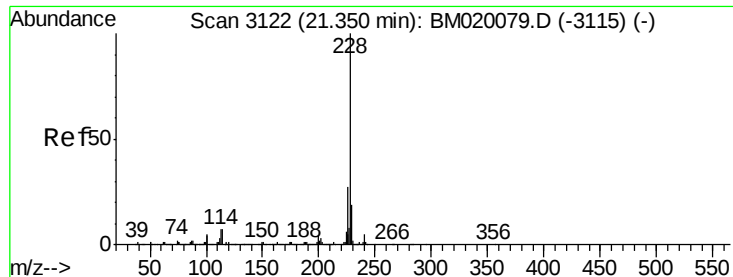
Tgt Ion:202 Resp: 1030924
 Ion Ratio Lower Upper
 202 100
 200 19.9 16.5 24.7
 203 17.6 13.9 20.9



#79
 Terphenyl-d14
 Concen: 9.880 ng
 RT: 19.80 min Scan# 2859
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Tgt Ion:244 Resp: 457959
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.7 8.5
 122 6.9 6.2 9.2

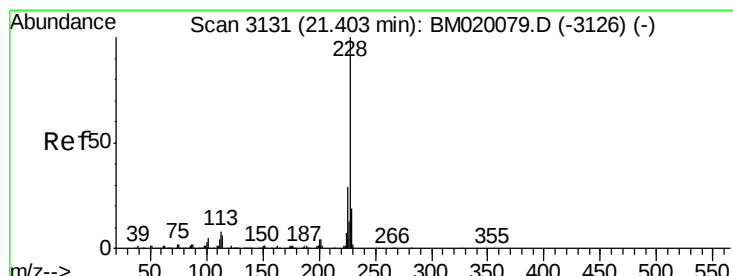
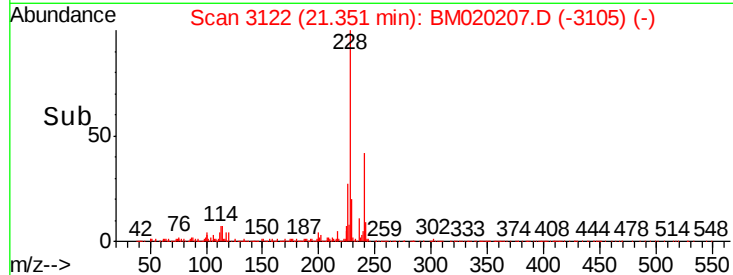
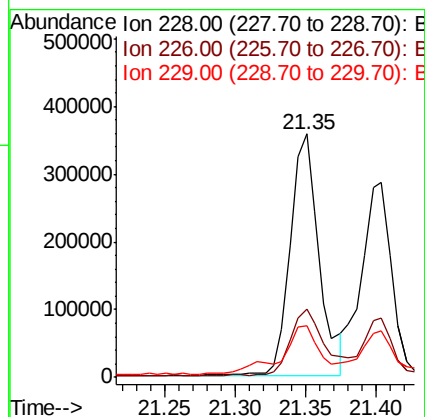
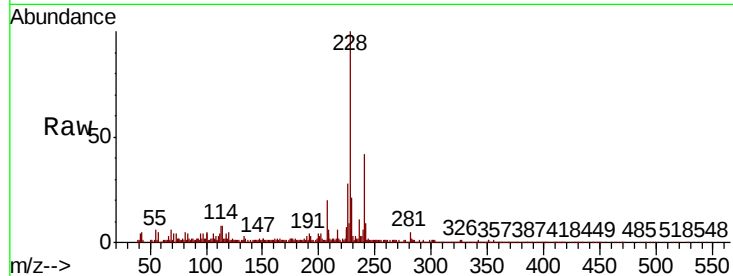




#81
Benzo(a)anthracene
Concen: 8.958 ng
RT: 21.35 min Scan# 3122
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

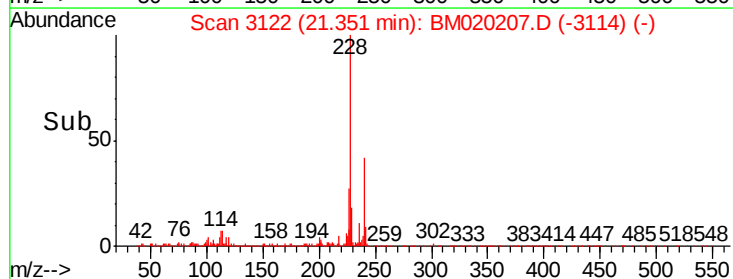
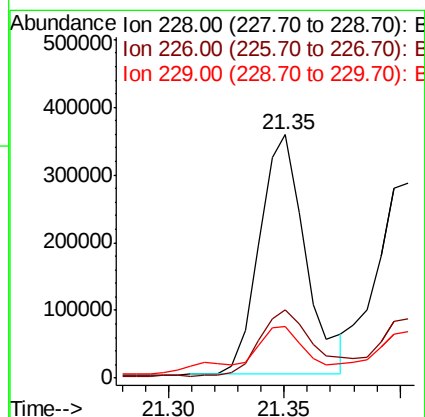
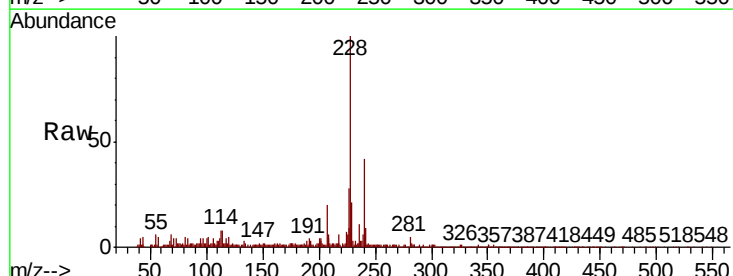
Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

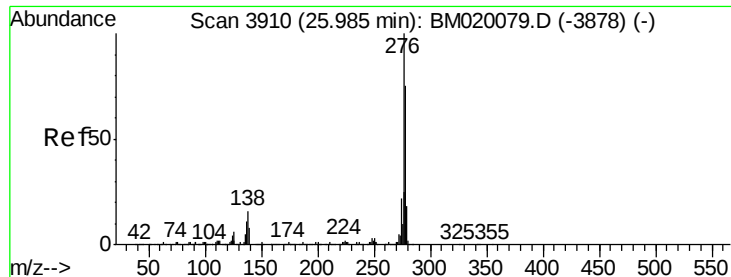
Tgt Ion:	228	Resp:	507900
Ion	Ratio	Lower	Upper
228	100		
226	28.0	21.3	31.9
229	21.3	15.5	23.3



#83
Chrysene
Concen: 8.958 ng
RT: 21.35 min Scan# 3122
Delta R.T. -0.05 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion:	228	Resp:	492597
Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.0	34.6
229	21.3	15.5	23.3





#86

Indeno(1,2,3-cd)pyrene

Concen: 4.332 ng

RT: 26.00 min Scan# 3912

Delta R.T. 0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

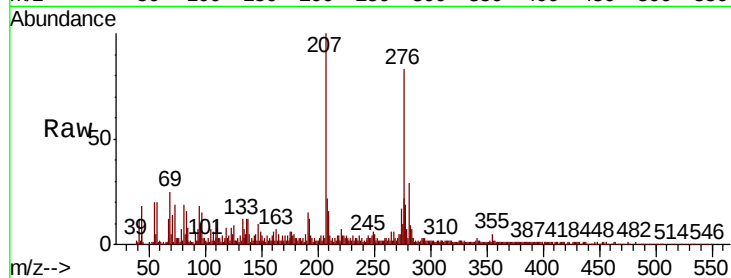
Tgt Ion: 276 Resp: 283364

Ion Ratio Lower Upper

276 100

138 13.1 0.0 0.0#

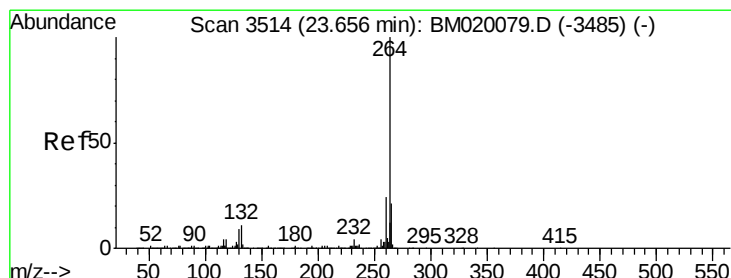
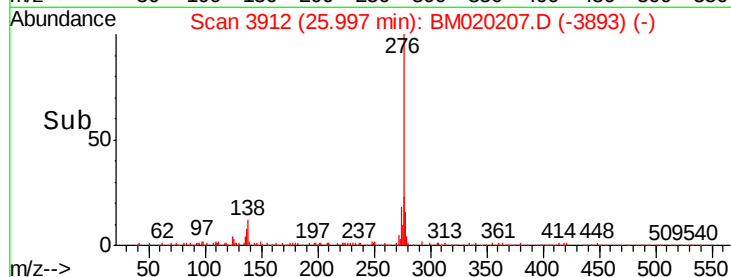
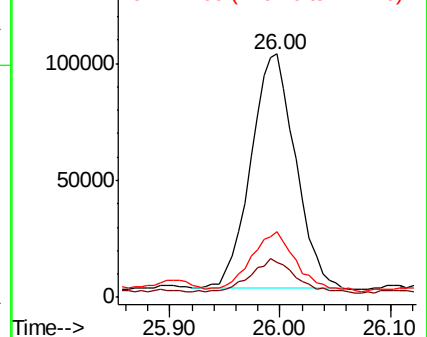
277 23.8 0.0 0.0#



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: 23.66 min Scan# 3515

Delta R.T. 0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

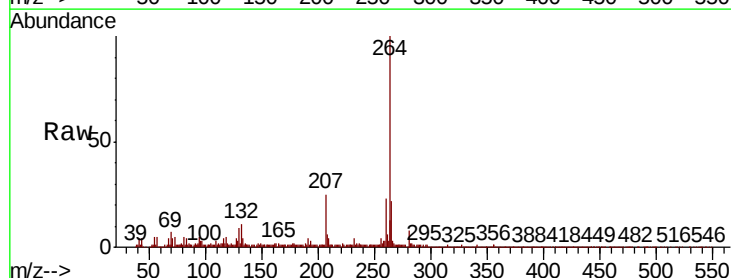
Tgt Ion: 264 Resp: 956549

Ion Ratio Lower Upper

264 100

260 22.8 19.2 28.8

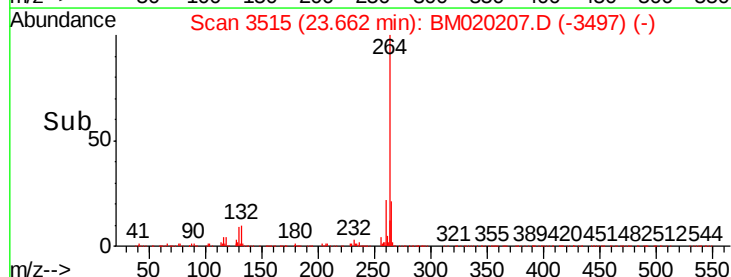
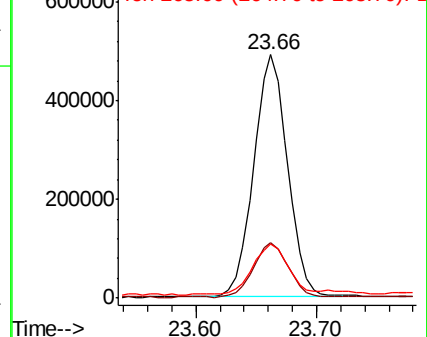
265 22.5 16.9 25.3

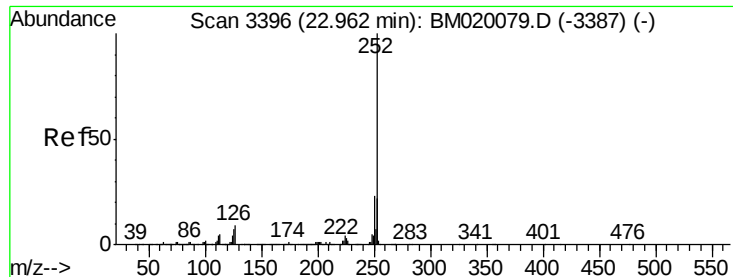


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 9.029 ng

RT: 22.97 min Scan# 3397

Delta R.T. 0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

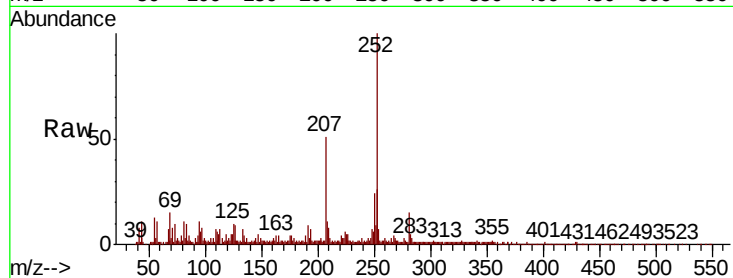
Tgt Ion:252 Resp: 570340

Ion Ratio Lower Upper

252 100

253 25.6 17.5 26.3

125 10.1 5.4 8.2#

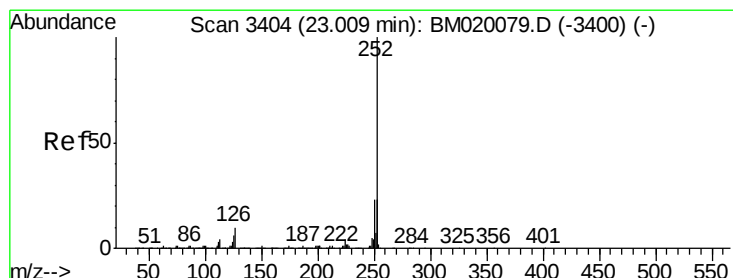
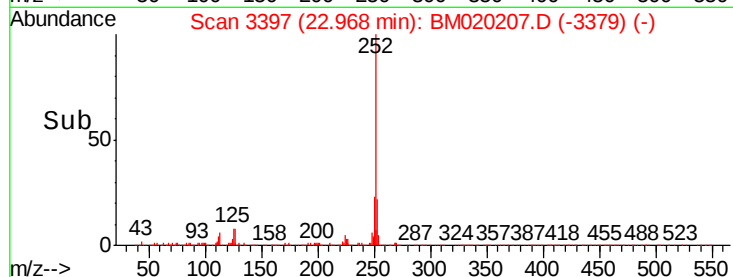
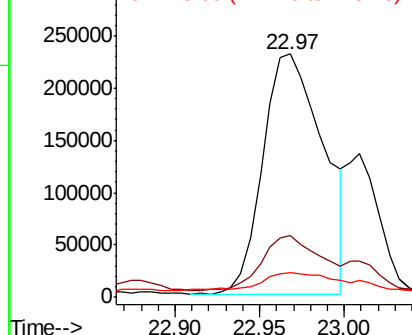


Abundance

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: 9.772 ng

RT: 22.97 min Scan# 3397

Delta R.T. -0.04 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

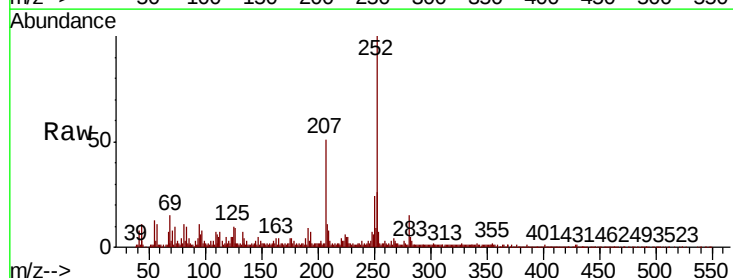
Tgt Ion:252 Resp: 563035

Ion Ratio Lower Upper

252 100

253 25.6 17.8 26.8

125 10.1 5.4 8.0#

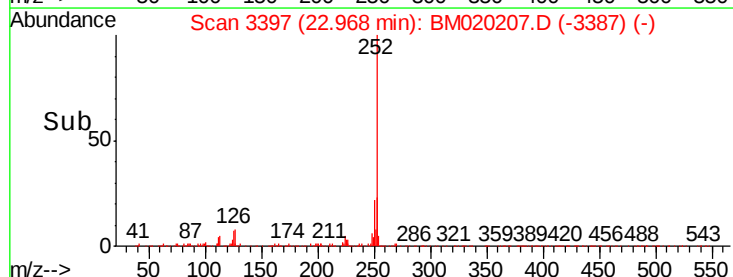
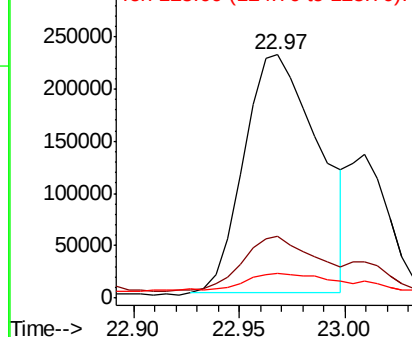


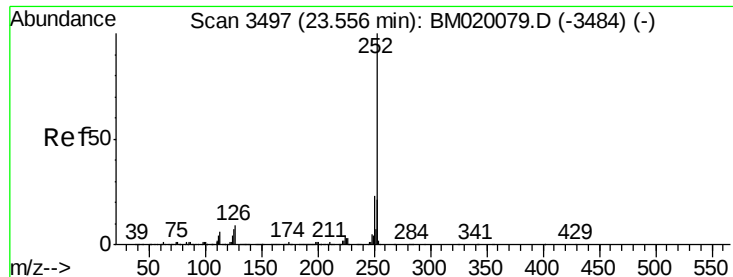
Abundance

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: 7.799 ng

RT: 23.56 min Scan# 3498

Delta R.T. 0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

ClientSampleId :

OR-03-050719-A

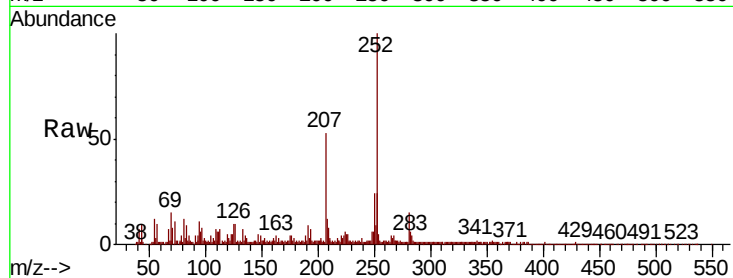
Tgt Ion:252 Resp: 447441

Ion Ratio Lower Upper

252 100

253 23.9 17.0 25.6

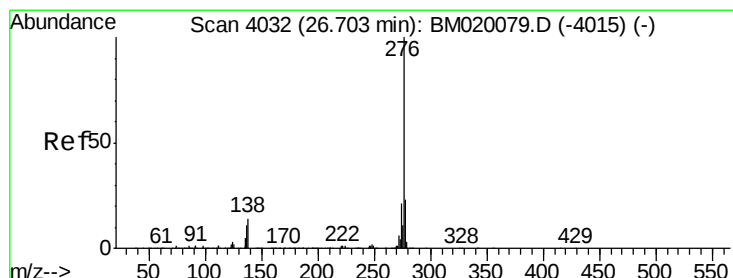
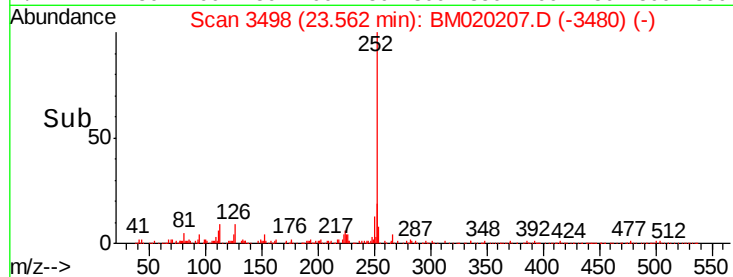
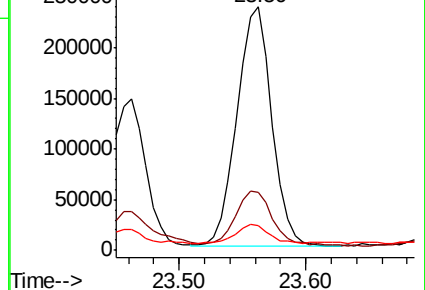
125 10.4 5.5 8.3#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 5.017 ng

RT: 26.71 min Scan# 4034

Delta R.T. 0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

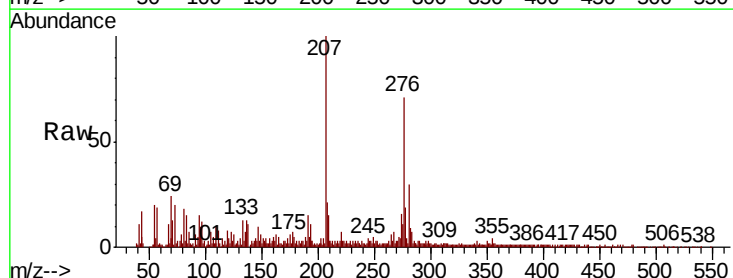
Tgt Ion:276 Resp: 284191

Ion Ratio Lower Upper

276 100

277 27.1 18.4 27.6

138 15.6 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

