Article

Studies on the genus *Pyrenopolyporus* (Hypoxylaceae) in Thailand using a polyphasic taxonomic approach

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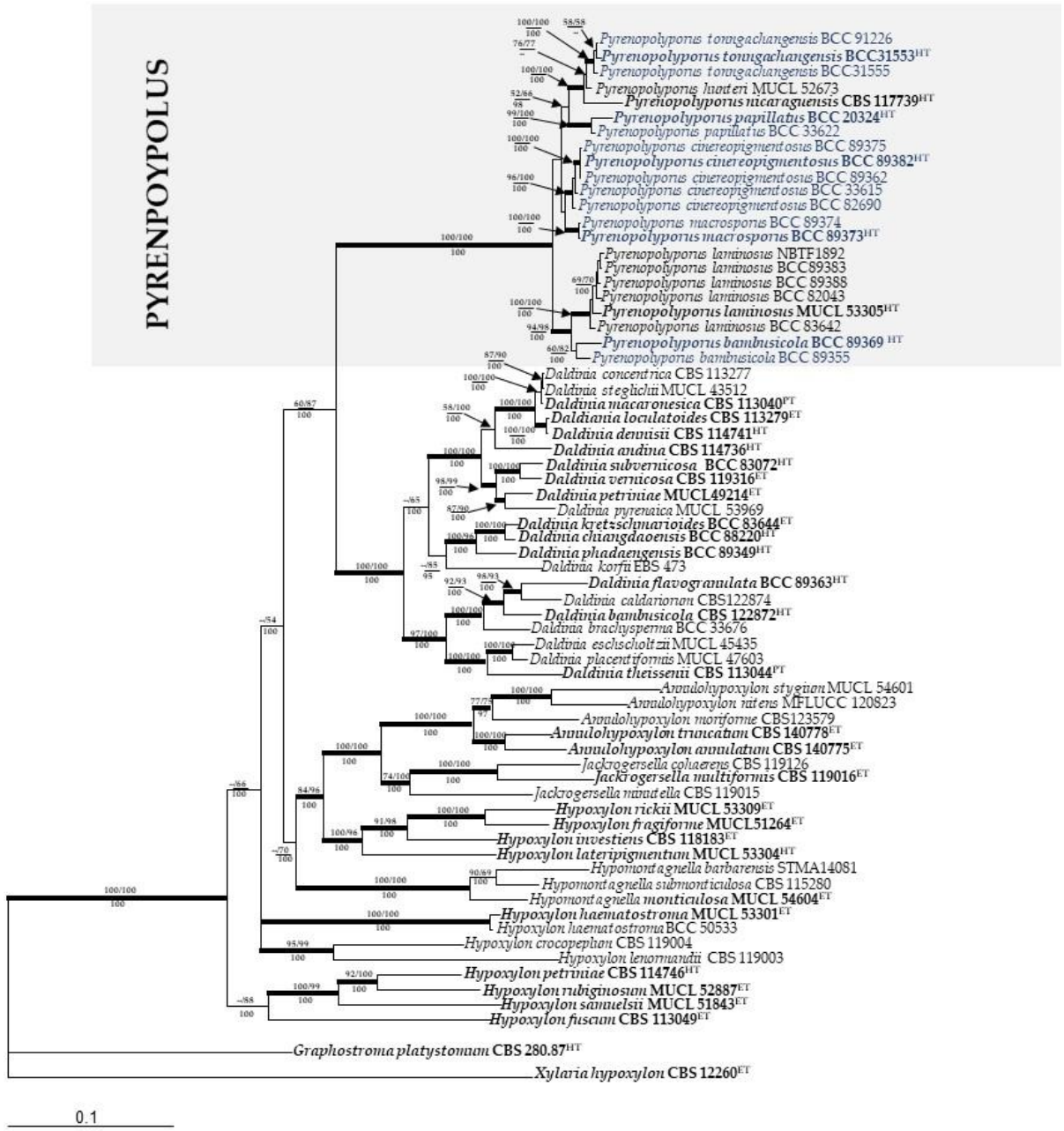


Figure S1. Phylogeny of the Hypoxylaceae. The phylogenetic relationships inferred from Bayesian analysis based on multiple genetic loci of nuclear ribosomal LSU and proteinogenic (*TUB2* and *RPB2*) sequences**.** Support values of more than 50% (MPBS/MLBS) or 0.95 (BPP) were calculated via MP, ML and Bayesian analysis and are indicated above (MPBS/MLBS) and below (BPP) the respective branches. Branches of significant support (MPBS, MLBS =70% and BPP =95) are thickened. New species are indicated in blue and the clade comprising the sequences of the *Pyrenopolyporus* spp. is marked by a grey rectangle, ET indicates ex-epitype, HT ex-holotype, and PT ex-paratype strains.

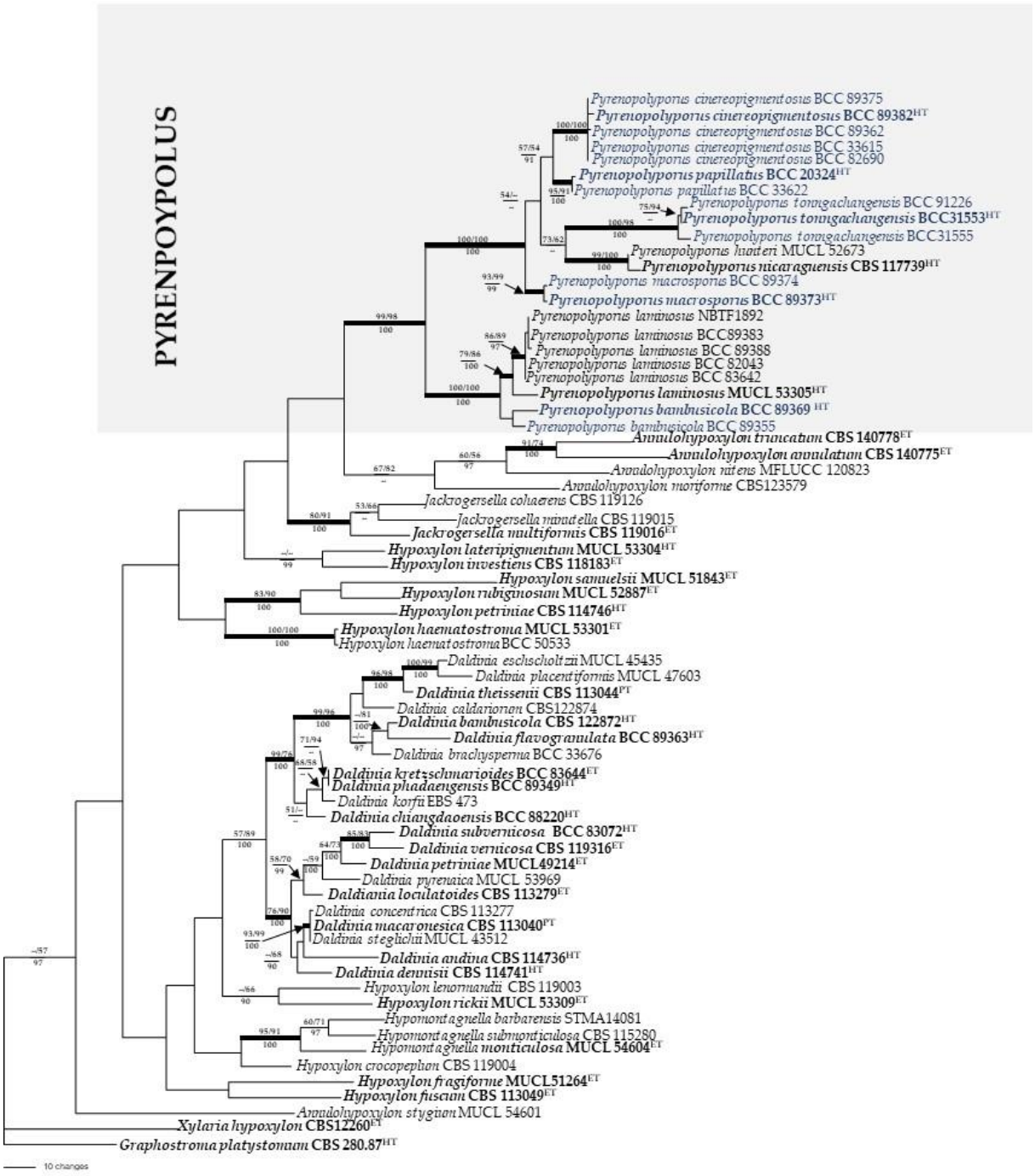


Figure S2. Phylogeny of the Hypoxylaceae. The phylogenetic relationships depicted as Maximum parsimony tree generated based on ITS sequences. Support values of more than 50% (MPBS/MLBS) or 95 (BPP) were calculated via MP, ML and Bayesian analysis and are indicated above (MPBS/MLBS) and below (BPP) the respective branches. Branches of significant support (MPBS, MLBS =70% and BPP =95) are thickened. New species are indicated in blue and the clade comprising the sequences of the *Pyrenopolyporus* spp. is marked by a grey rectangle, ET indicates ex-epitype, HT ex-holotype, and PT ex-paratype strains.

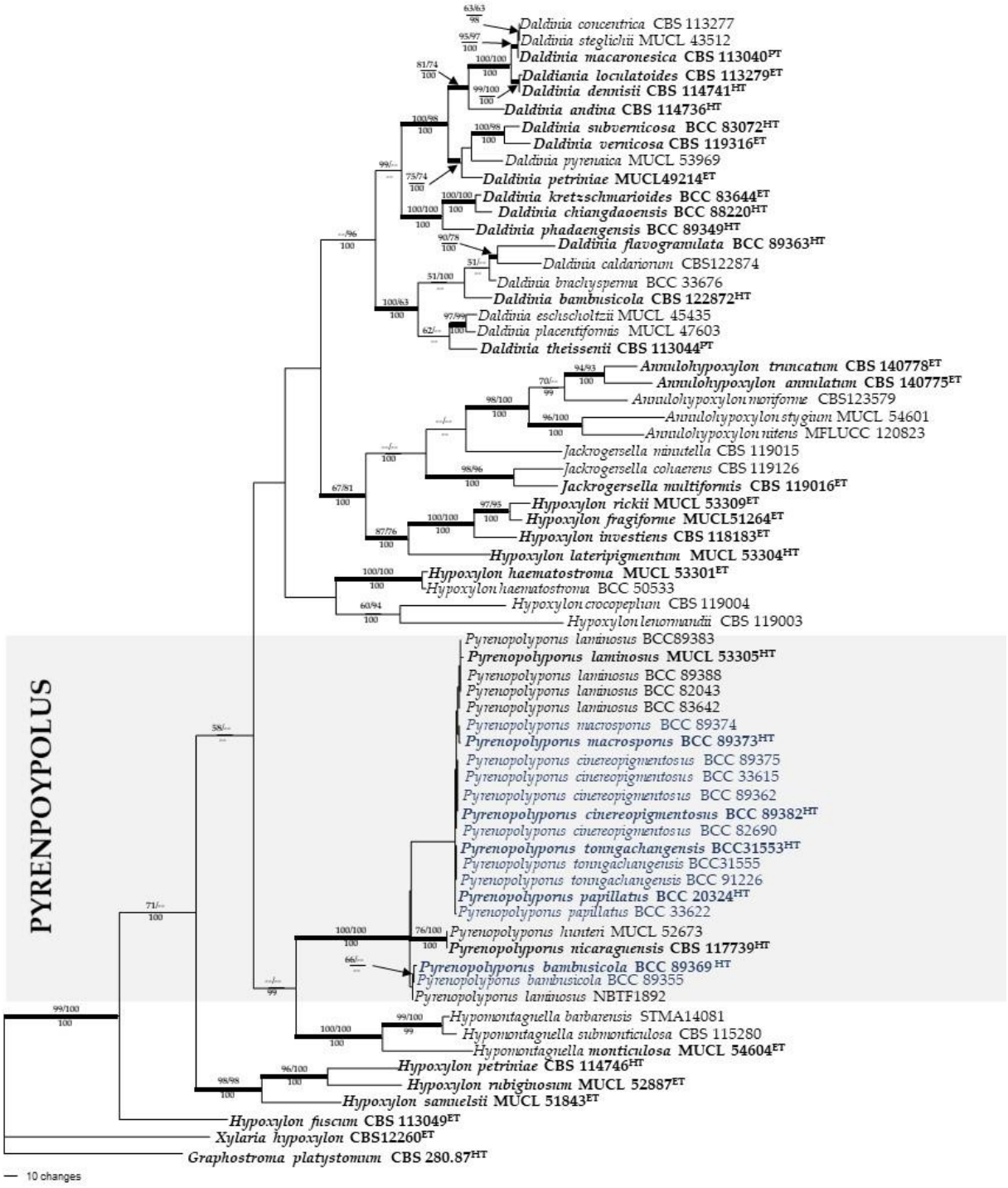


Figure S3. Phylogeny of the Hypoxylaceae. The phylogenetic relationships depicted as Maximum parsimony tree generated based on LSU sequences. Support values of more than 50% (MPBS/MLBS) or 95 (BPP) were calculated via MP, ML and Bayesian analysis and are indicated above (MPBS/MLBS) and below (BPP) the respective branches. Branches of significant support (MPBS, MLBS =70% and BPP =95) are thickened. New species are indicated in blue and the clade comprising the sequences of the *Pyrenopolyporus* spp. is marked by a grey rectangle, ET indicates ex-epitype, HT ex-holotype, and PT ex-paratype strains.

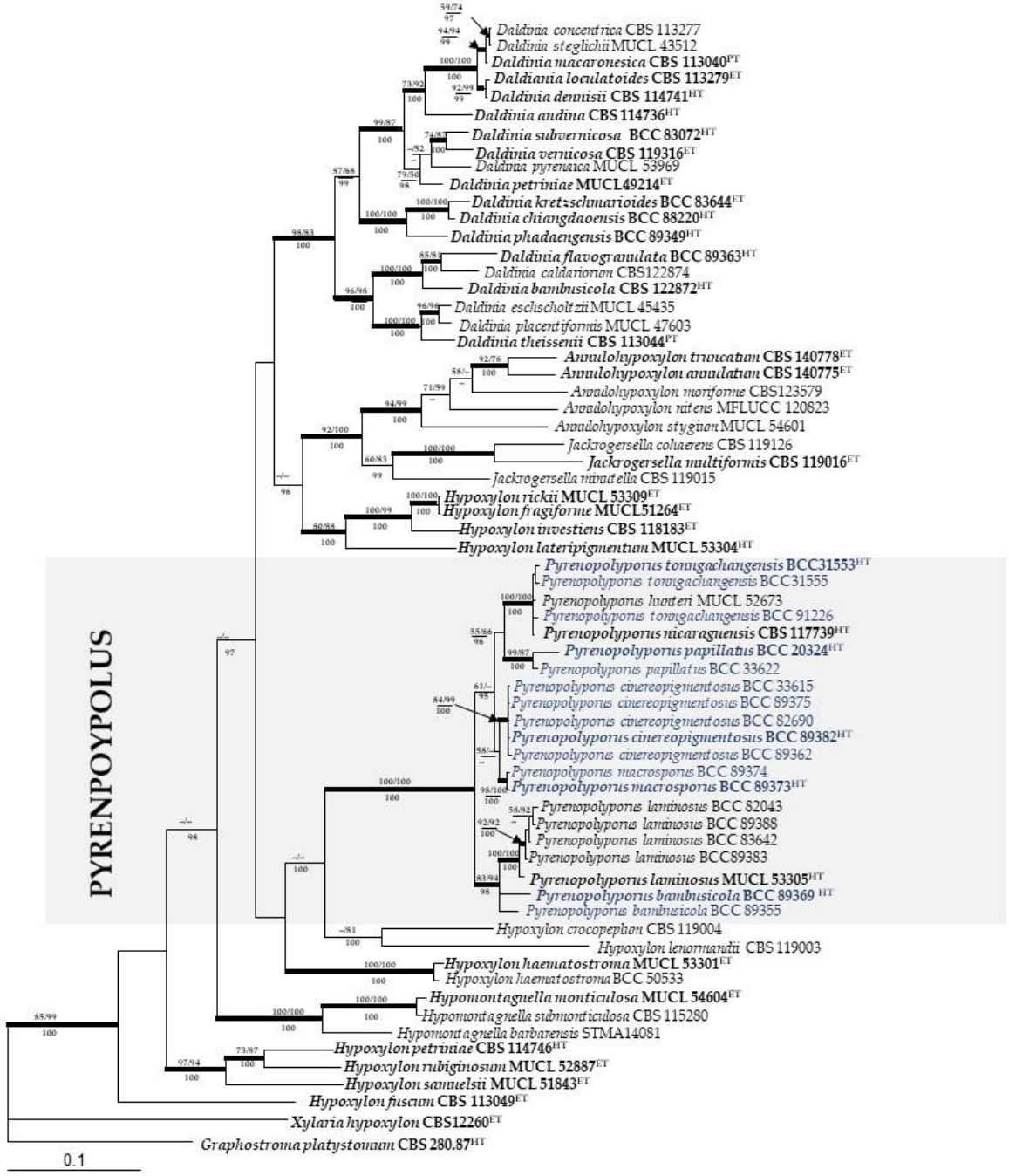


Figure S4. Phylogeny of the Hypoxylaceae. The phylogenetic relationships inferred from Bayesian analysis based on proteinogenic (*RPB2)* sequences**.** Support values of more than 50% (MPBS/MLBS) or 0.95 (BPP) were calculated via MP, ML and Bayesian analysis and are indicated above (MPBS/MLBS) and below (BPP) the respective branches. Branches of significant support (MPBS, MLBS =70% and BPP =95) are thickened. New species are indicated in blue and the clade comprising the sequences of the *Pyrenopolyporus* spp. is marked by a grey rectangle, ET indicates ex-epitype, HT ex-holotype, and PT ex-paratype strains.

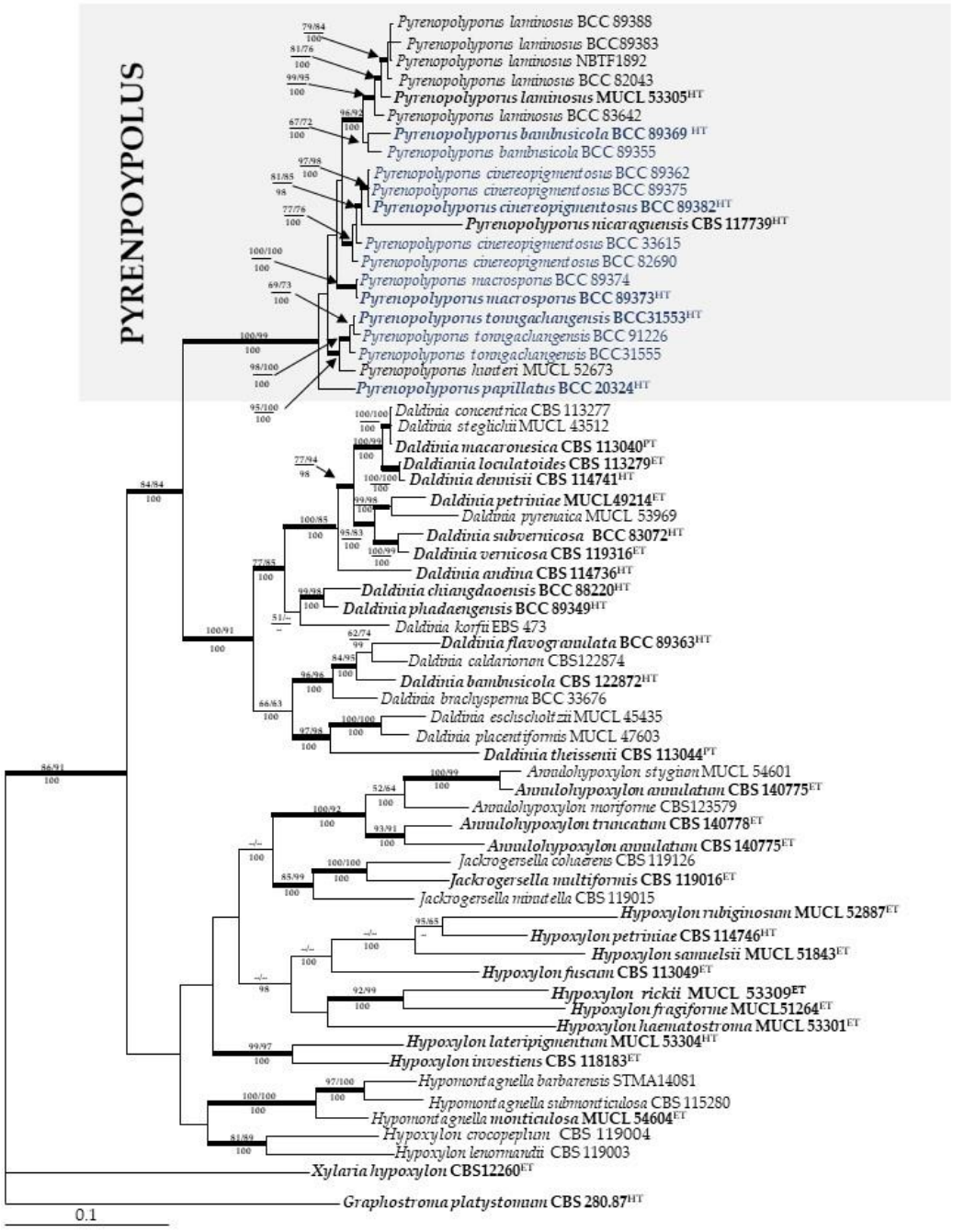
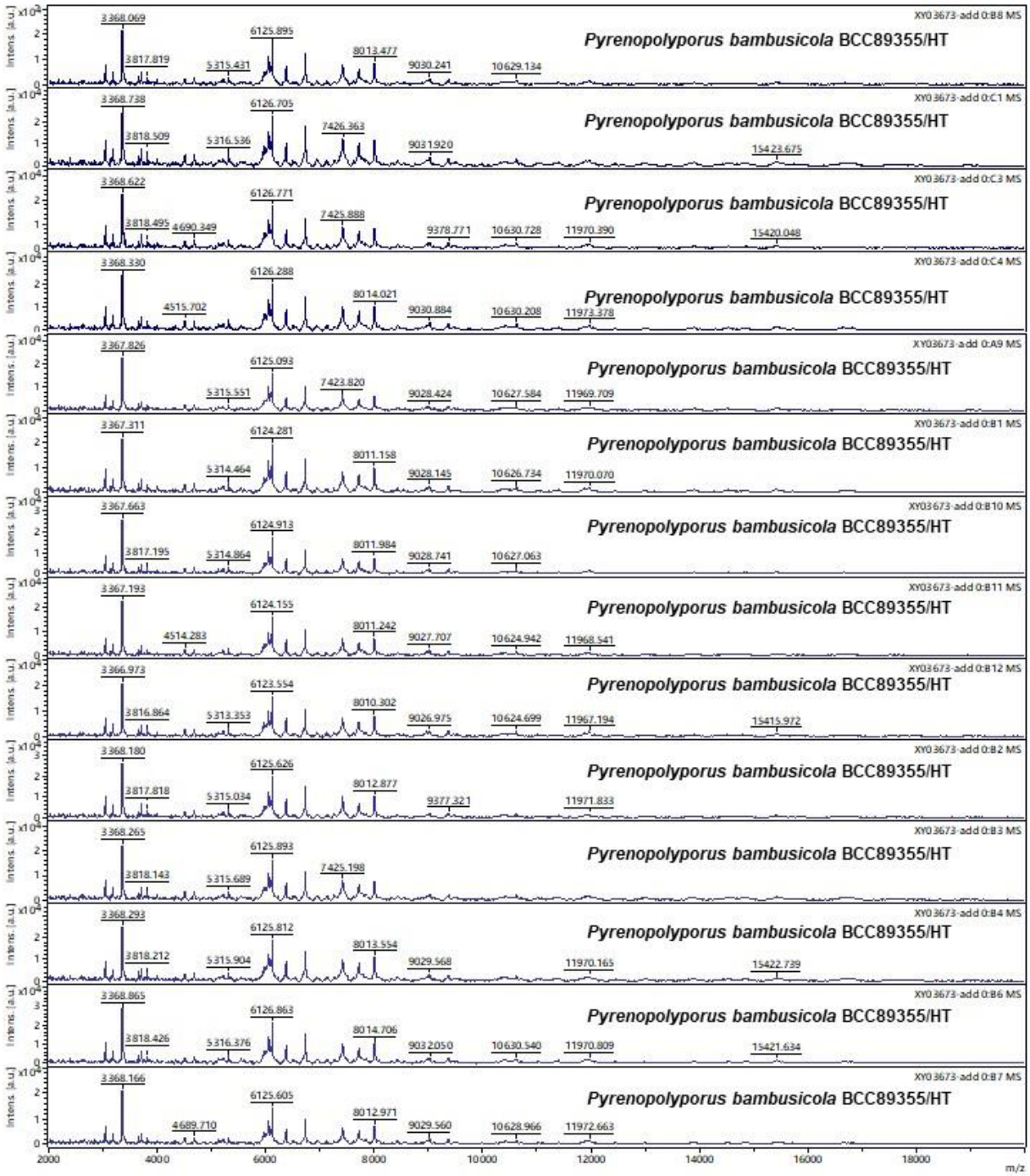


Figure S5. Phylogeny of the Hypoxylaceae. The phylogenetic relationships inferred from Bayesian analysis based on proteinogenic (*TUB2)* sequences**.** Support values of more than 50% (MPBS/MLBS) or 0.95 (BPP) were calculated via MP, ML and Bayesian analysis and are indicated above (MPBS/MLBS) and below (BPP) the respective branches. Branches of significant support (MPBS, MLBS =70% and BPP =95) are thickened. New species are indicated in blue and the clade comprising the sequences of the *Pyrenopolyporus* spp. is marked by a grey rectangle, ET indicates ex-epitype, HT ex-holotype, and PT ex-paratype strains.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10629.134
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7426.363
3818.509
5316.536
9031.920
15423.675
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7425.888
3818.495
4690.349
9378.771
10630.728
11970.390
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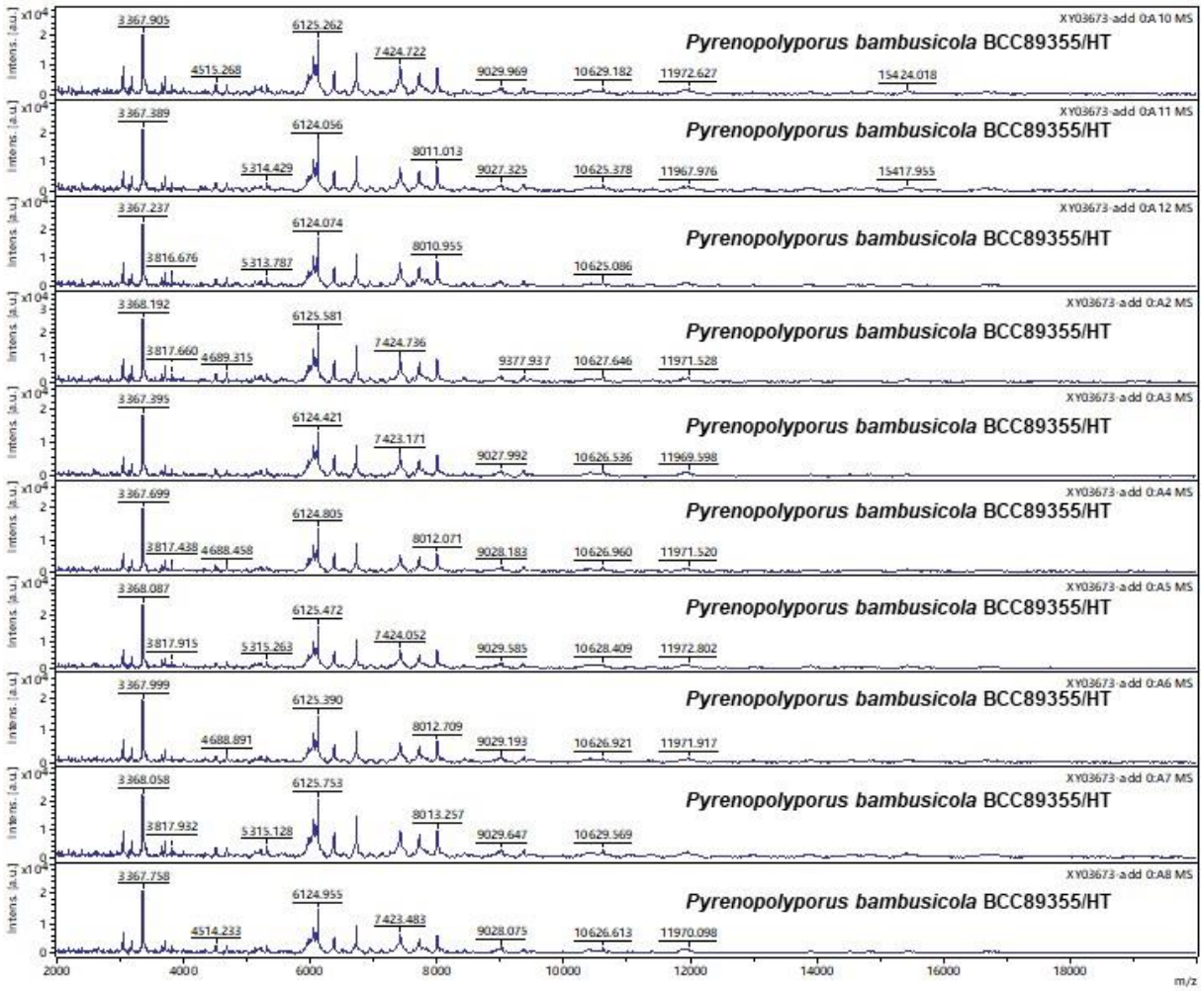
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11971.520
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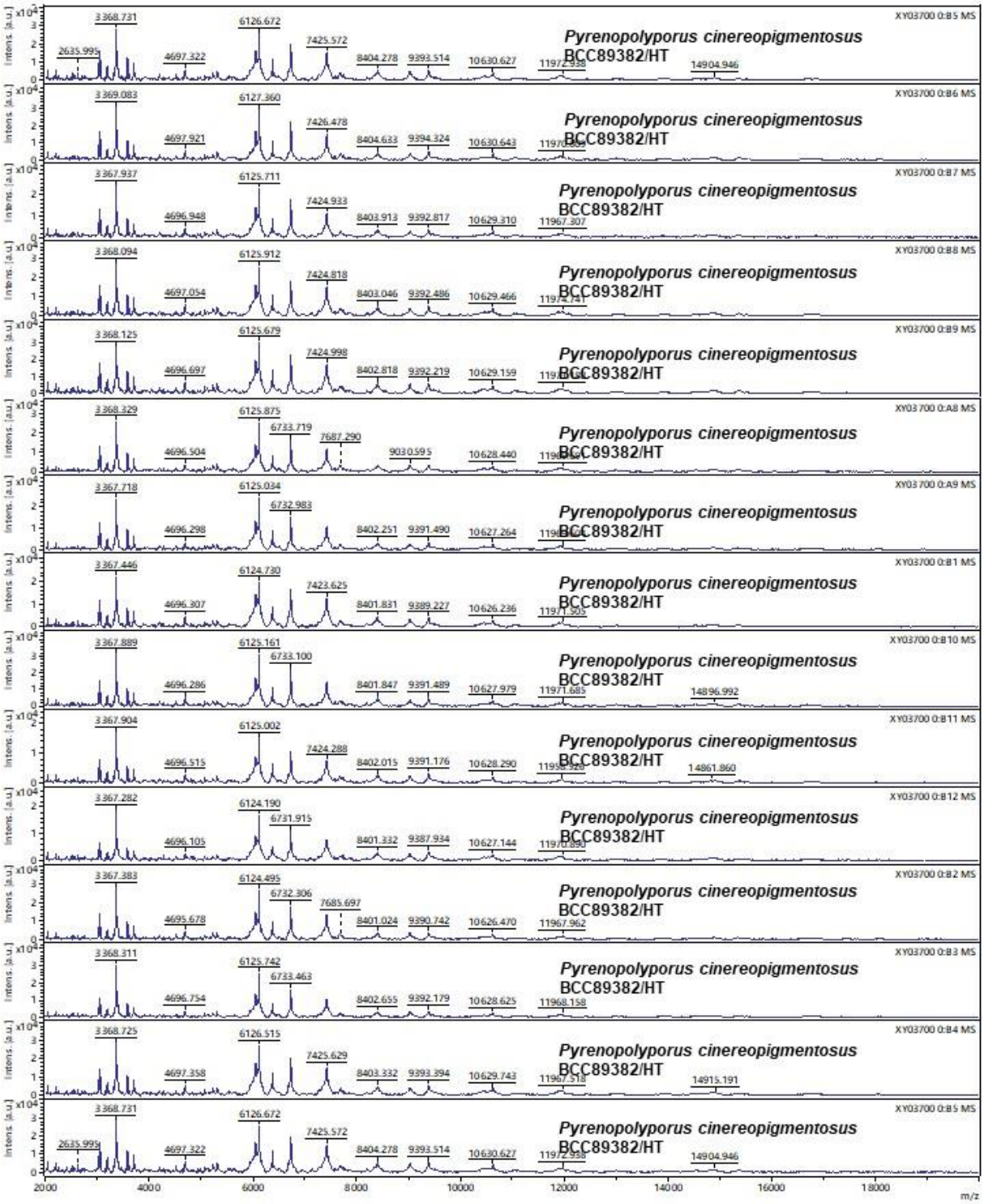
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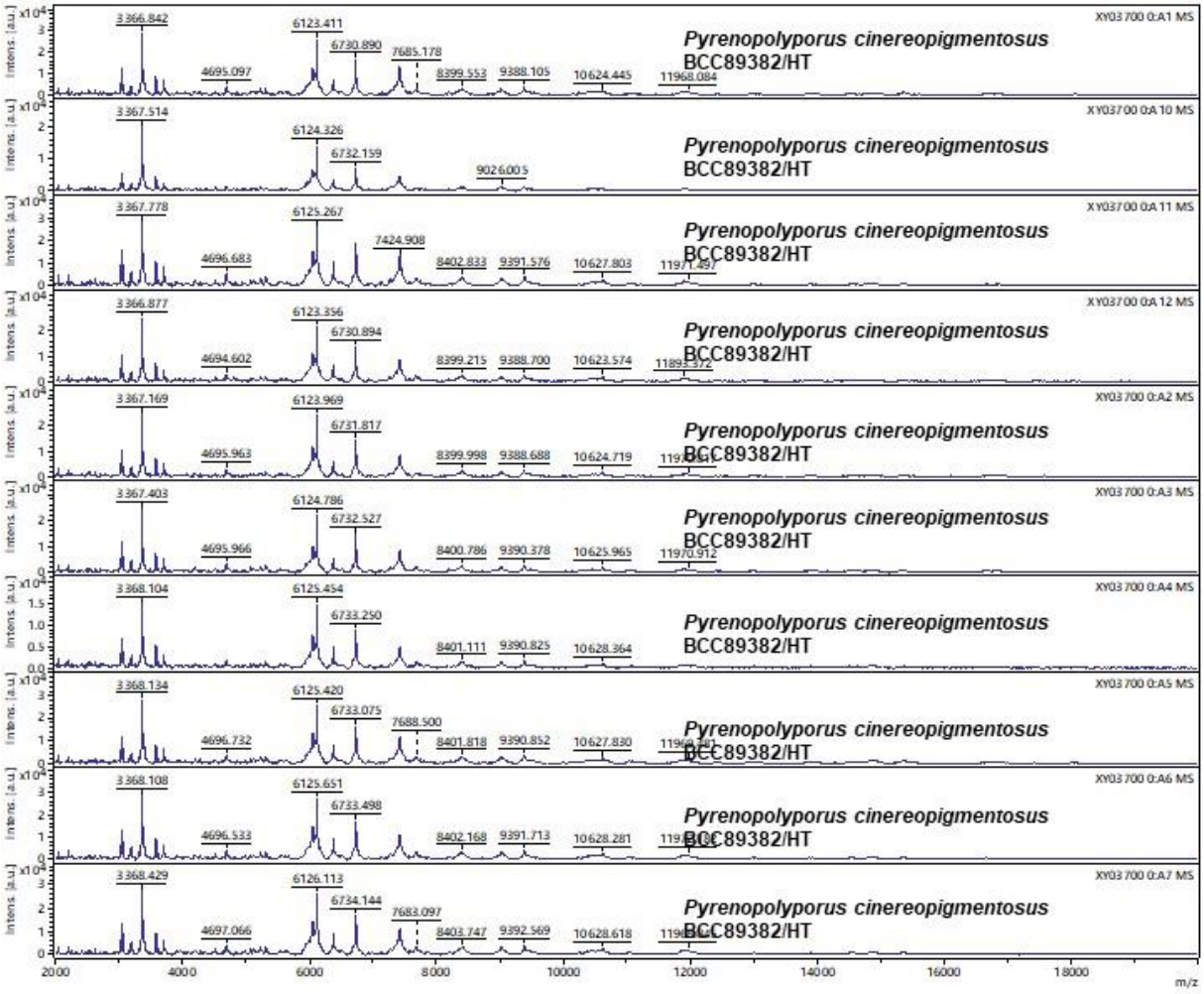
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Pyrenopolyporus cinereopigmentosus
BCC89382/HT
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Pyrenopolyporus cinereopigmentosus
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BCC89382/HT
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BCC89382/HT
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BCC89382/HT
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BCC89382/HT
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BCC89382/HT
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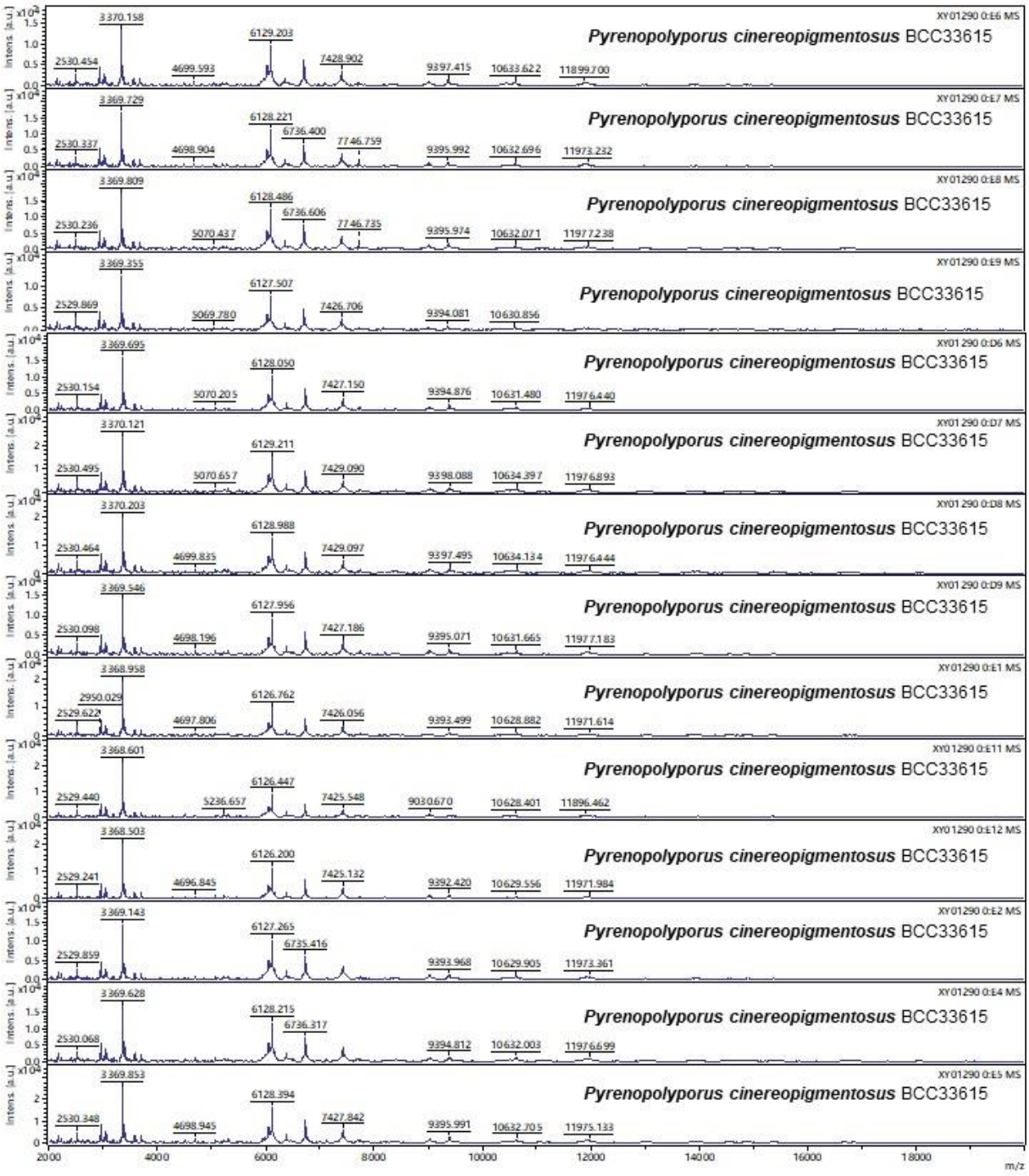
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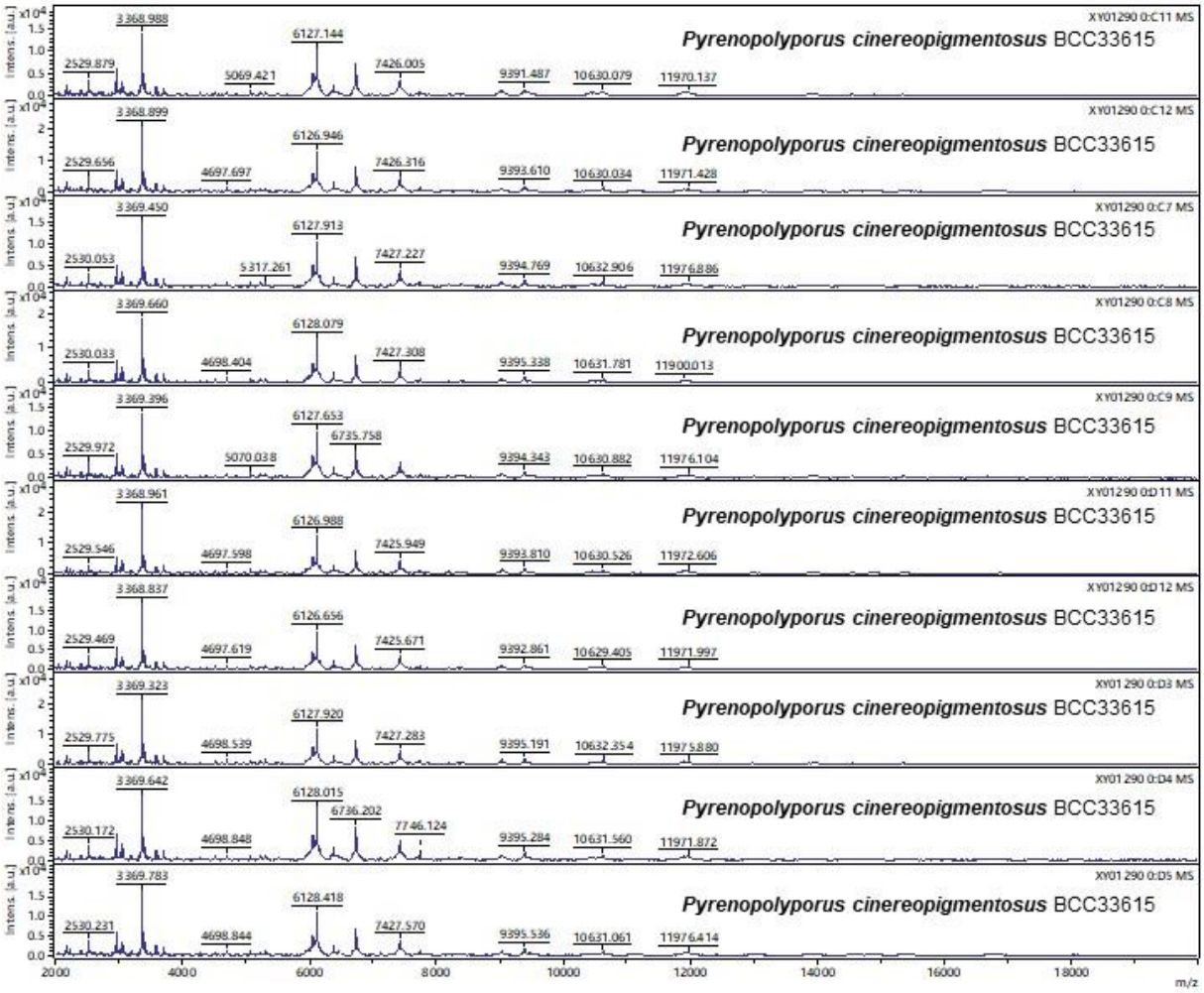
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7746.124
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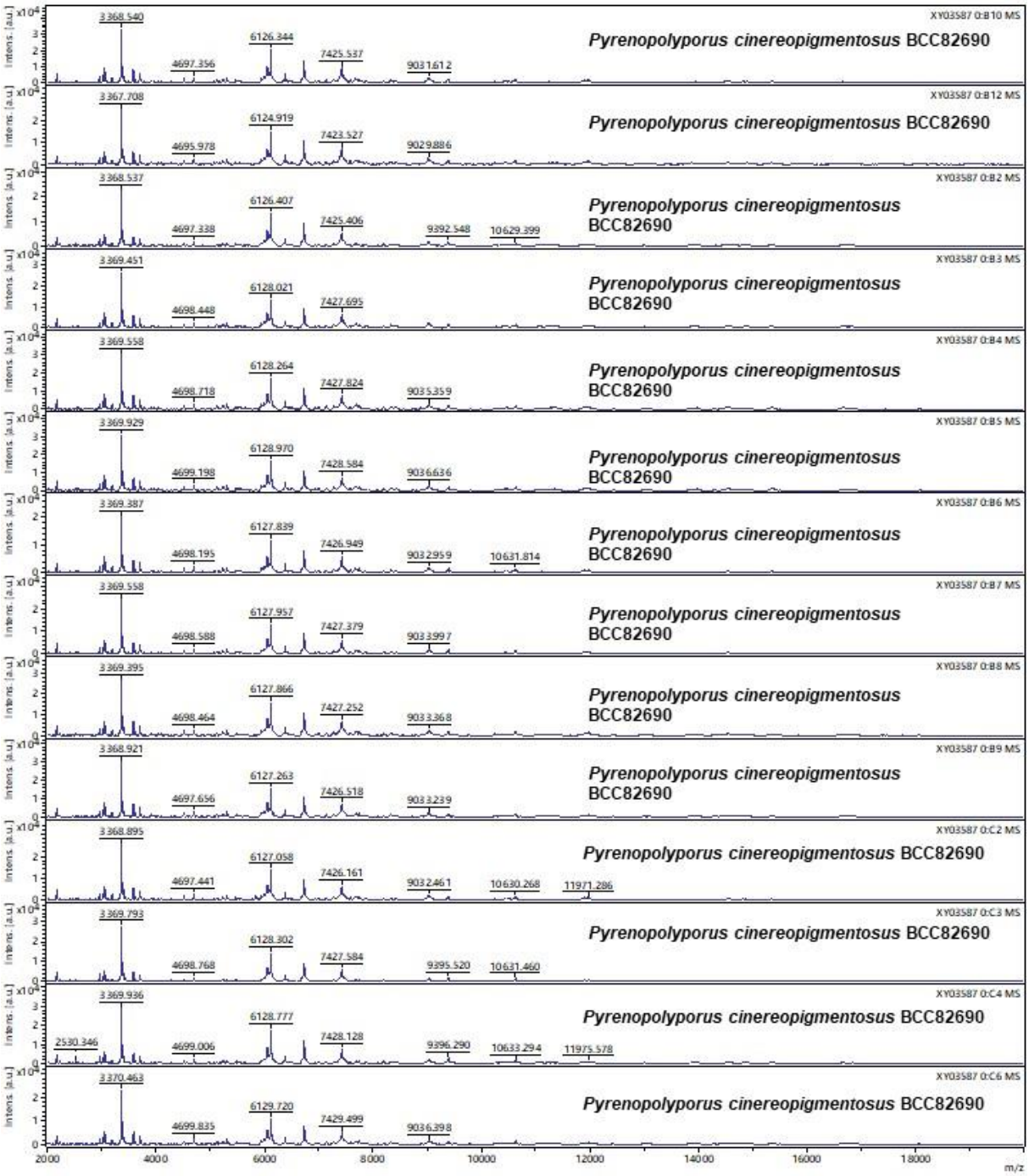
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Pyrenopolyporus cinereopigmentosus BCC82690
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7426.518
4697.656
9033.239
Pyrenopolyporus cinereopigmentosus BCC82690
XY03587 0:C2 MS
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6127.058
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4697.441
9032.461
10630.268
11971.286
Pyrenopolyporus cinereopigmentosus BCC82690
XY03587 0:C3 MS
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7427.584
4698.768
9395.520
10631.460
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XY03587 0:C4 MS
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2530.346
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10633.294
11975.578
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XY03587 0:C6 MS
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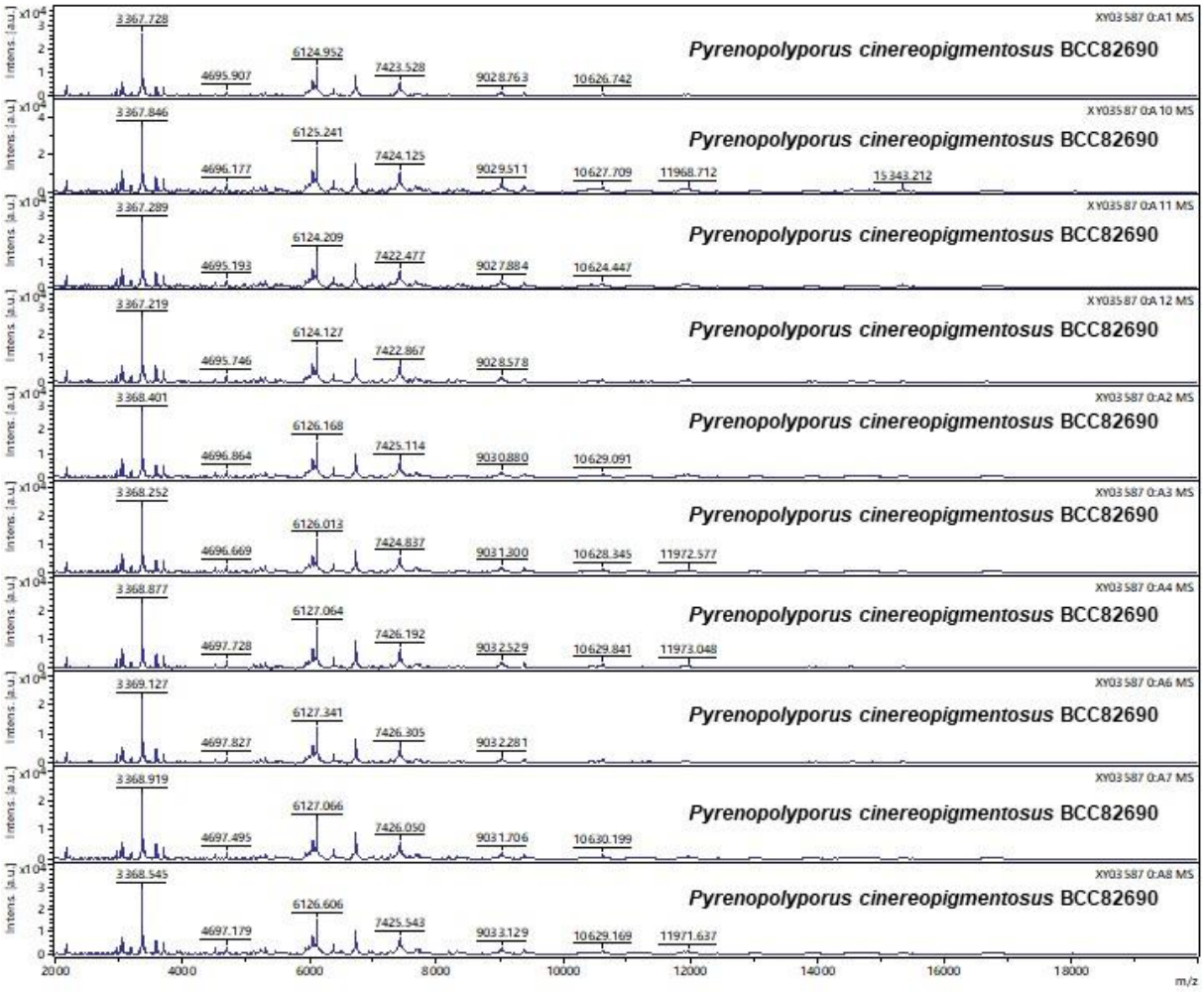
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XY03587 0:A11 MS
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10624.447
XY03587 0:A12 MS
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6124.127
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6126.168
7425.114
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XY03587 0:A3 MS
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6126.013
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XY03587 0:A4 MS
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7426.192
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11973.048
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7426.305
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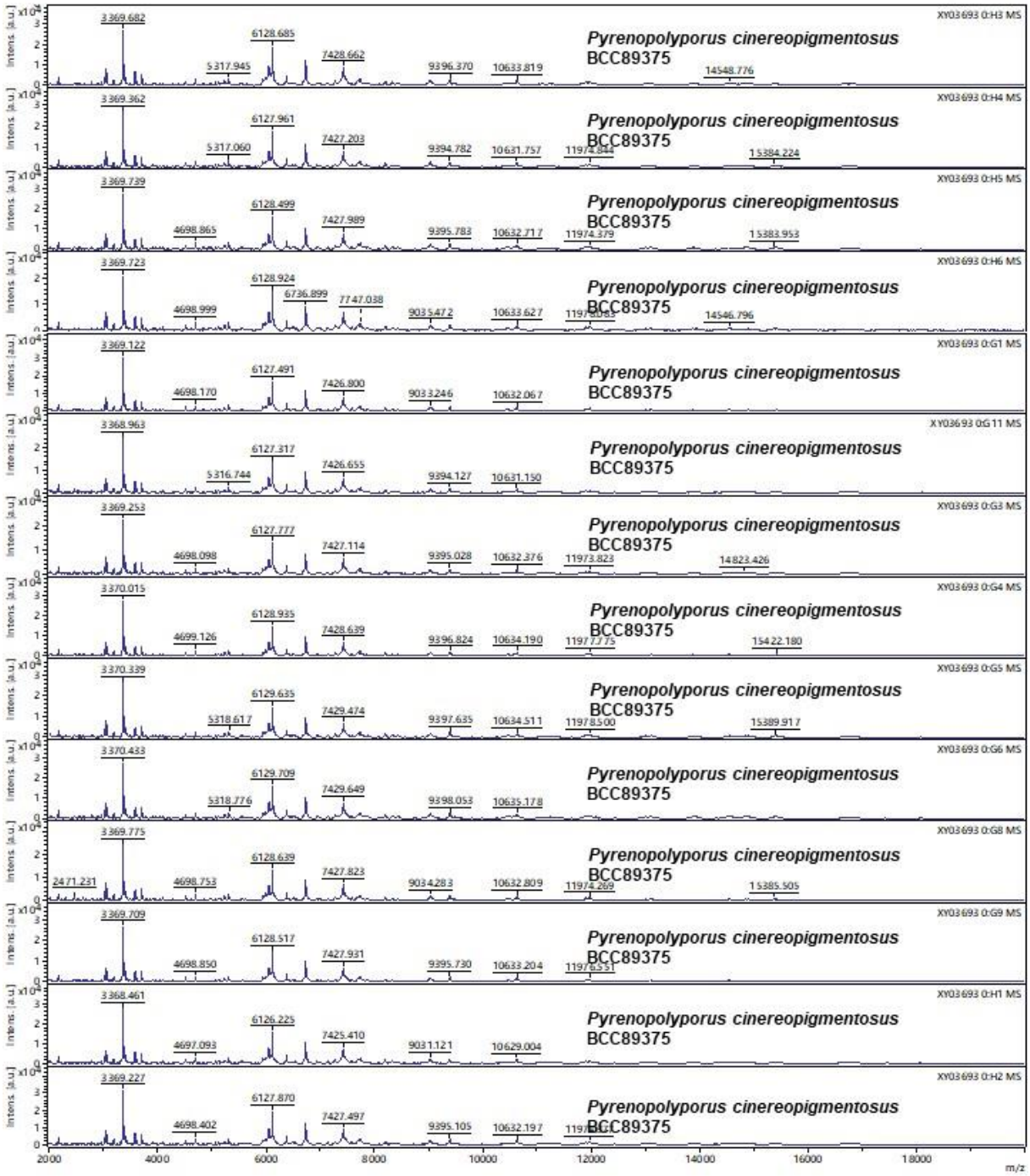
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15383.953
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Pyrenopolyporus cinereopigmentosus BCC89375
3369.723
6128.924
6736.899
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XY03693 0:G1 MS
Pyrenopolyporus cinereopigmentosus BCC89375
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XY03693 0:G3 MS
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7427.114
4698.098
9395.028
10632.376
11973.823
14823.426
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6128.935
7428.639
4699.126
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3370.339
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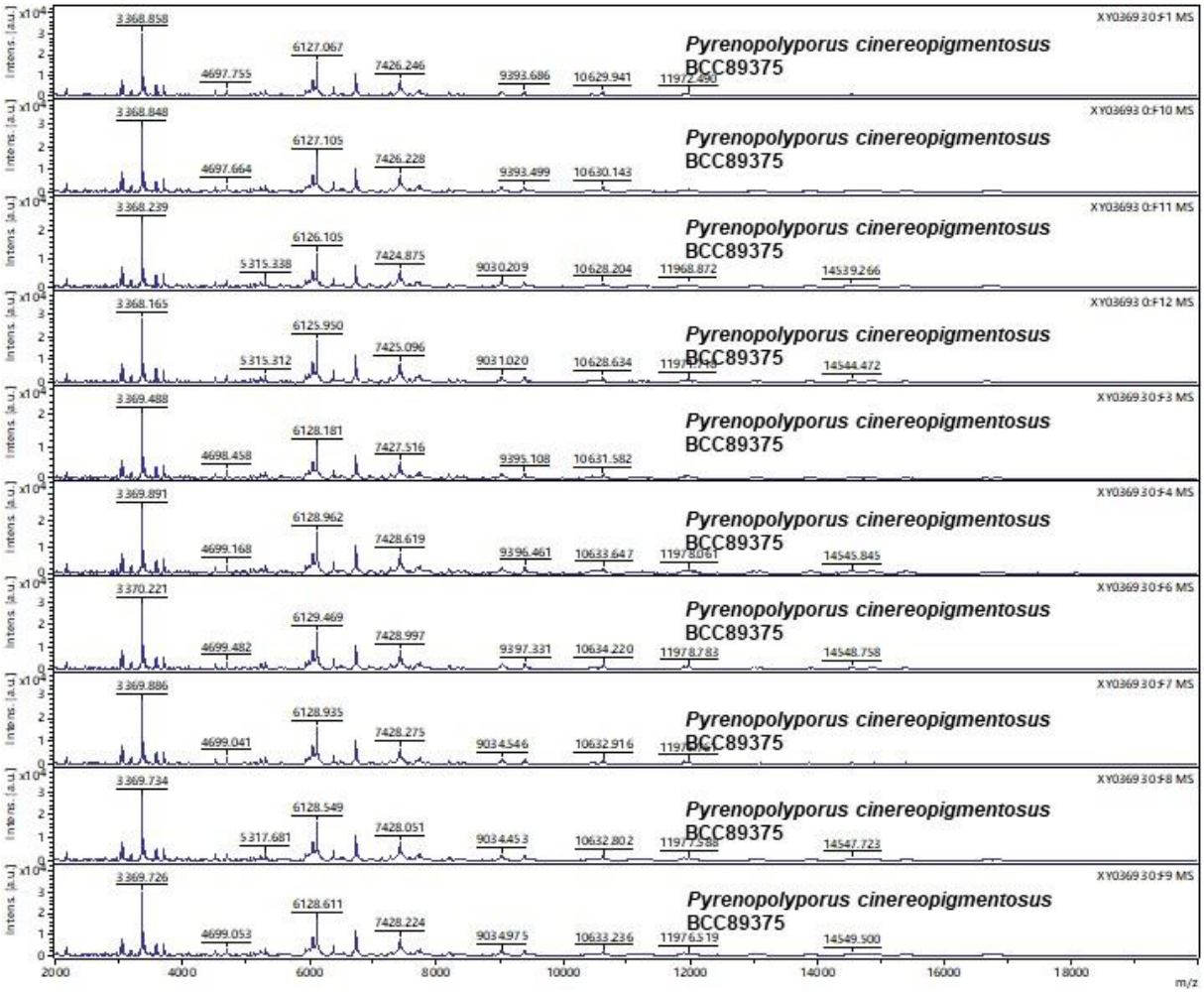
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Pyrenopolyporus cinereopigmentosus BCC89375
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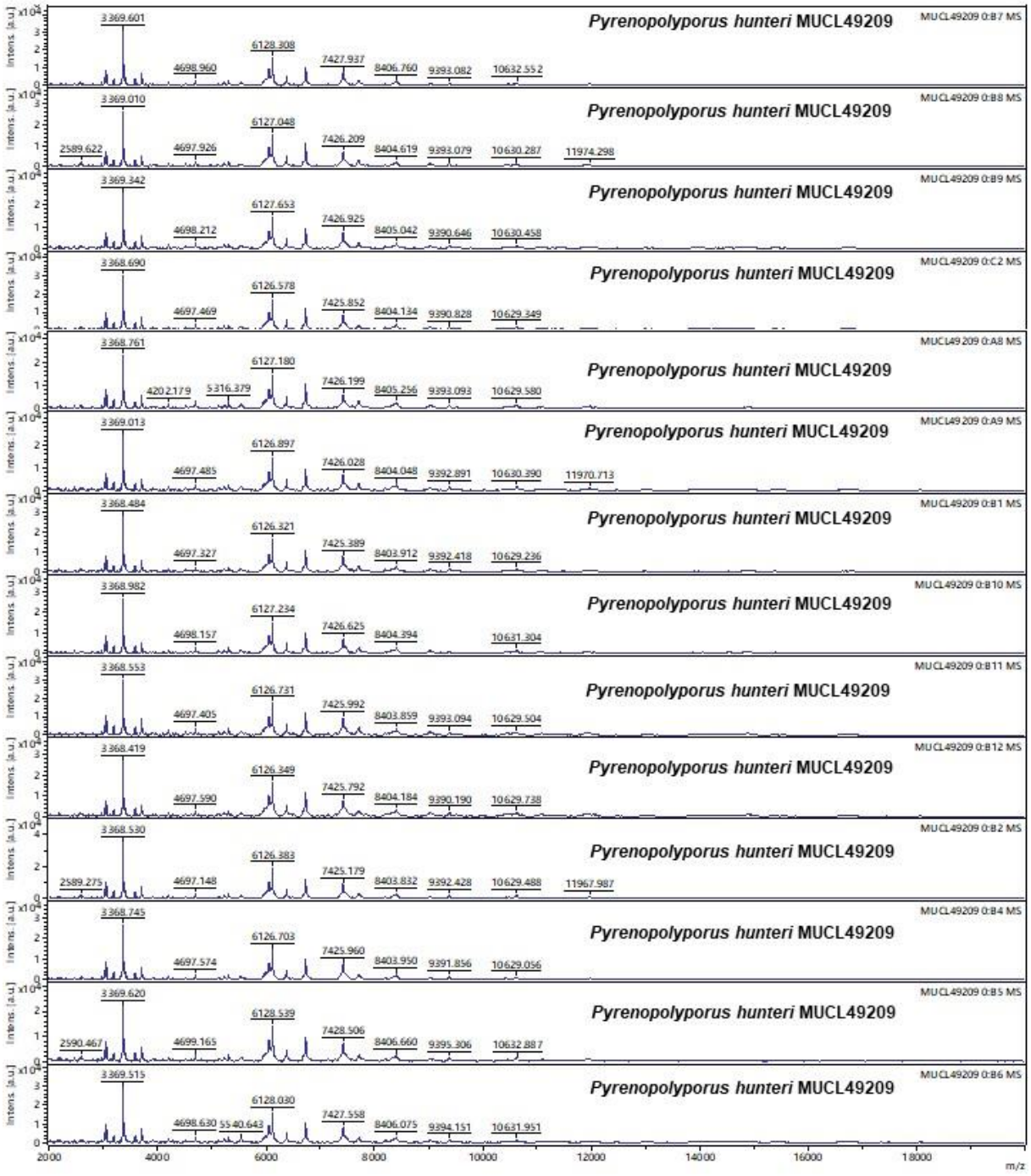
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10630.287
11974.298
Pyrenopolyporus hunteri MUCL49209
MUCL49209 0:B9 MS
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6127.653
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7426.925
8405.042
9390.646
10630.458
Pyrenopolyporus hunteri MUCL49209
MUCL49209 0:C2 MS
3368.690
6126.578
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7425.852
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9390.828
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MUCL49209 0:A8 MS
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6127.180
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5316.379
7426.199
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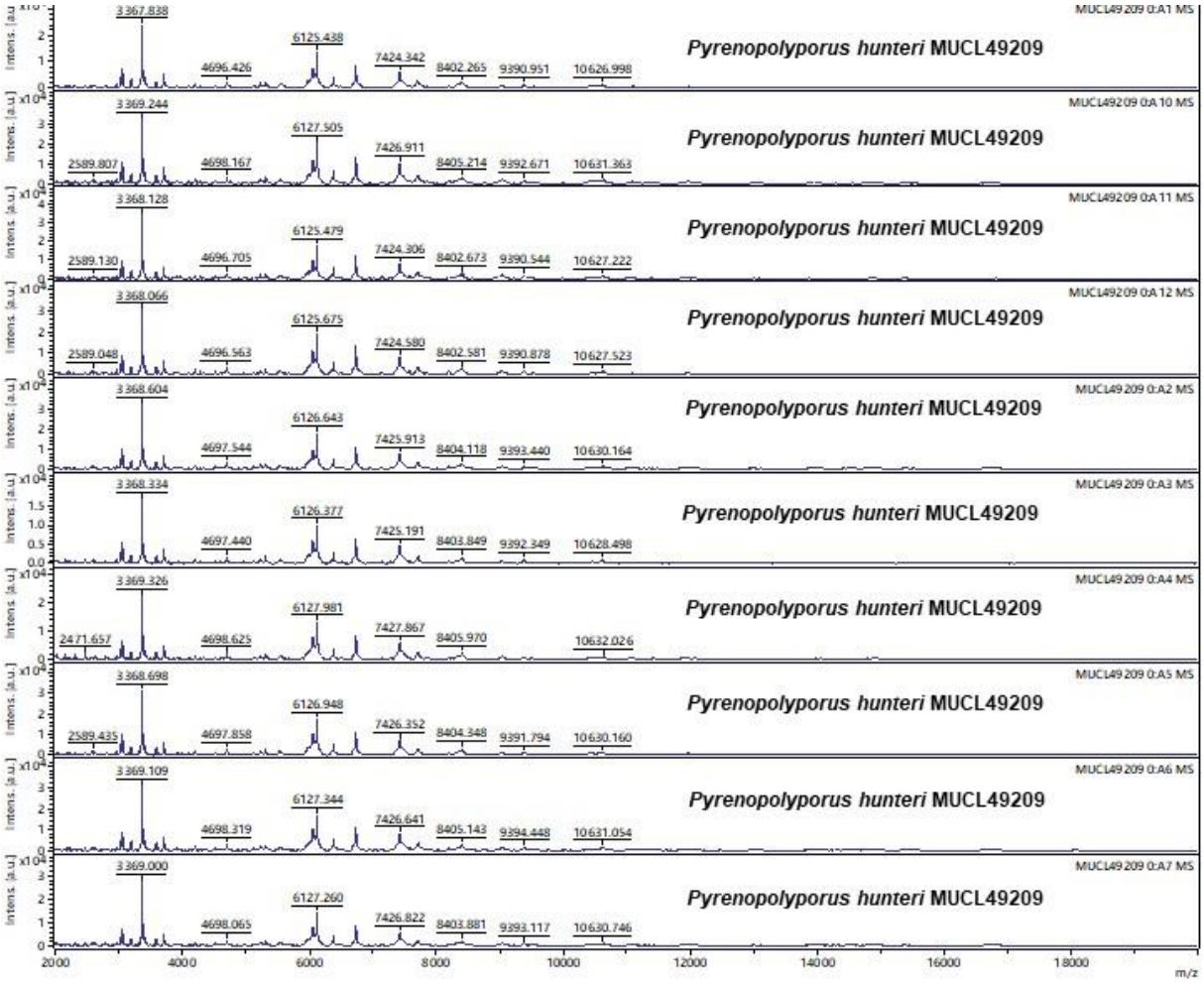
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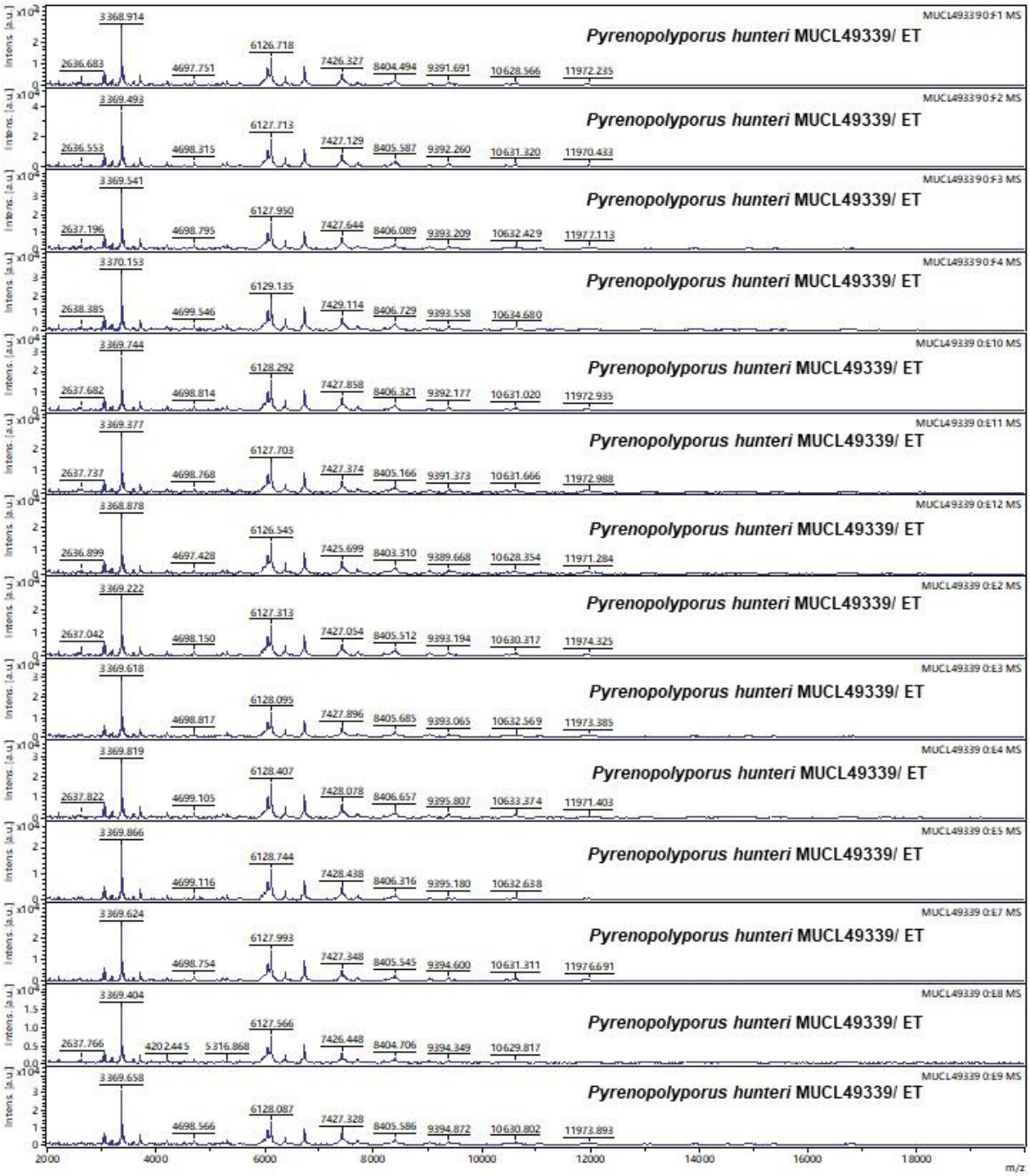
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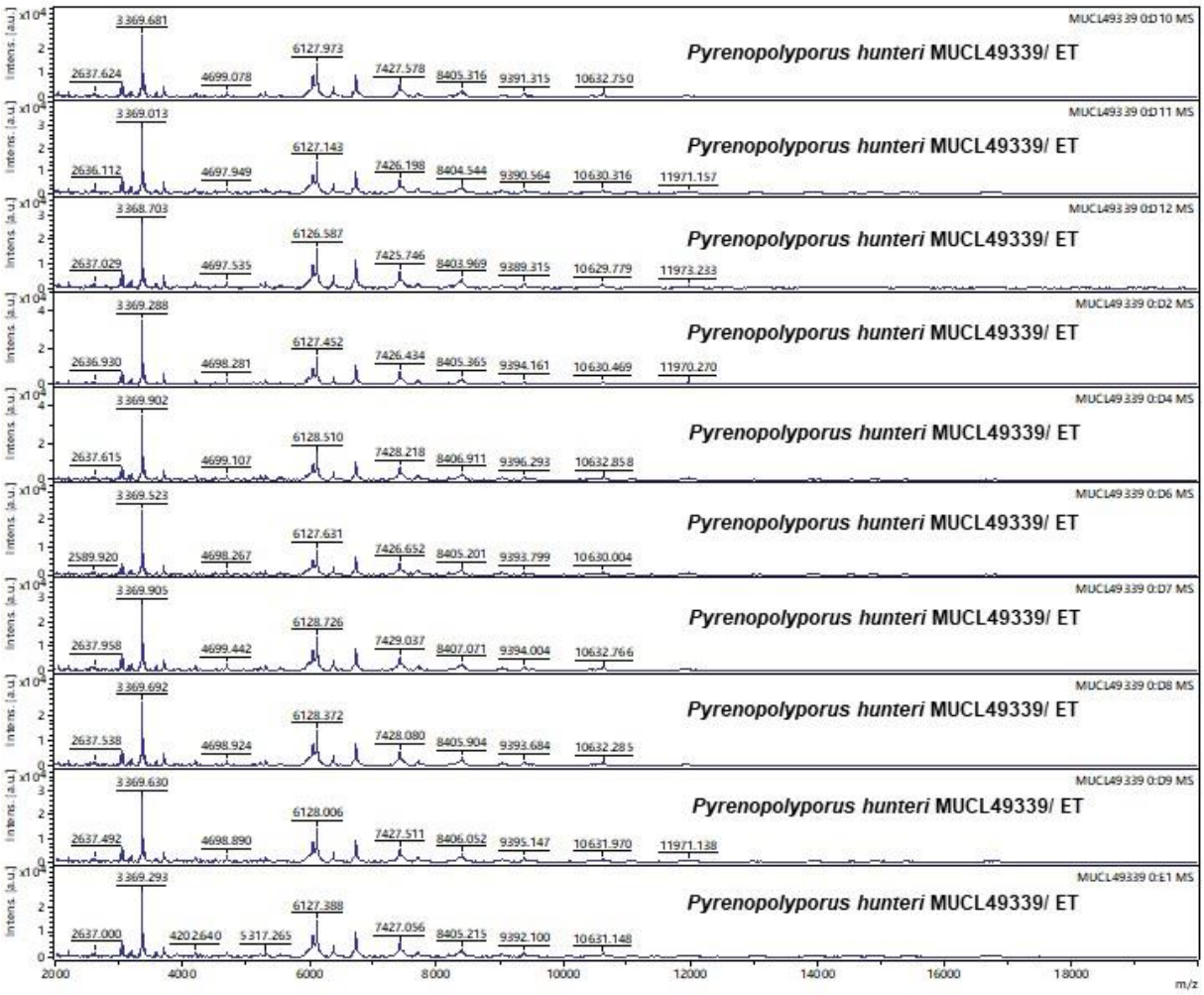
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Pyrenopolyporus hunteri MUCL49339/ ET
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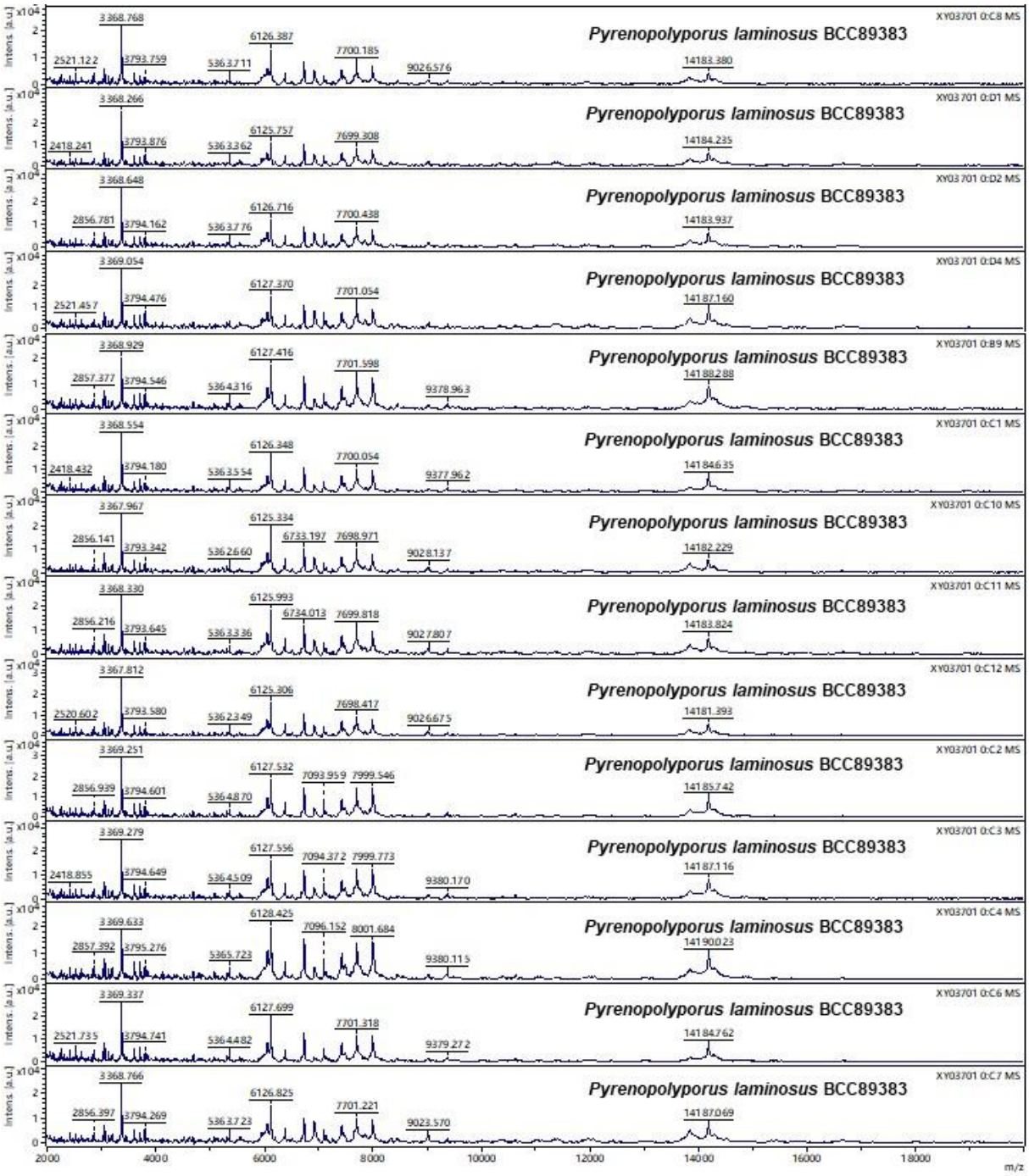
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Pyrenopolyporus laminosus BCC89383
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XY03701 0:C6 MS
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XY03701 0:C7 MS
Pyrenopolyporus laminosus BCC89383
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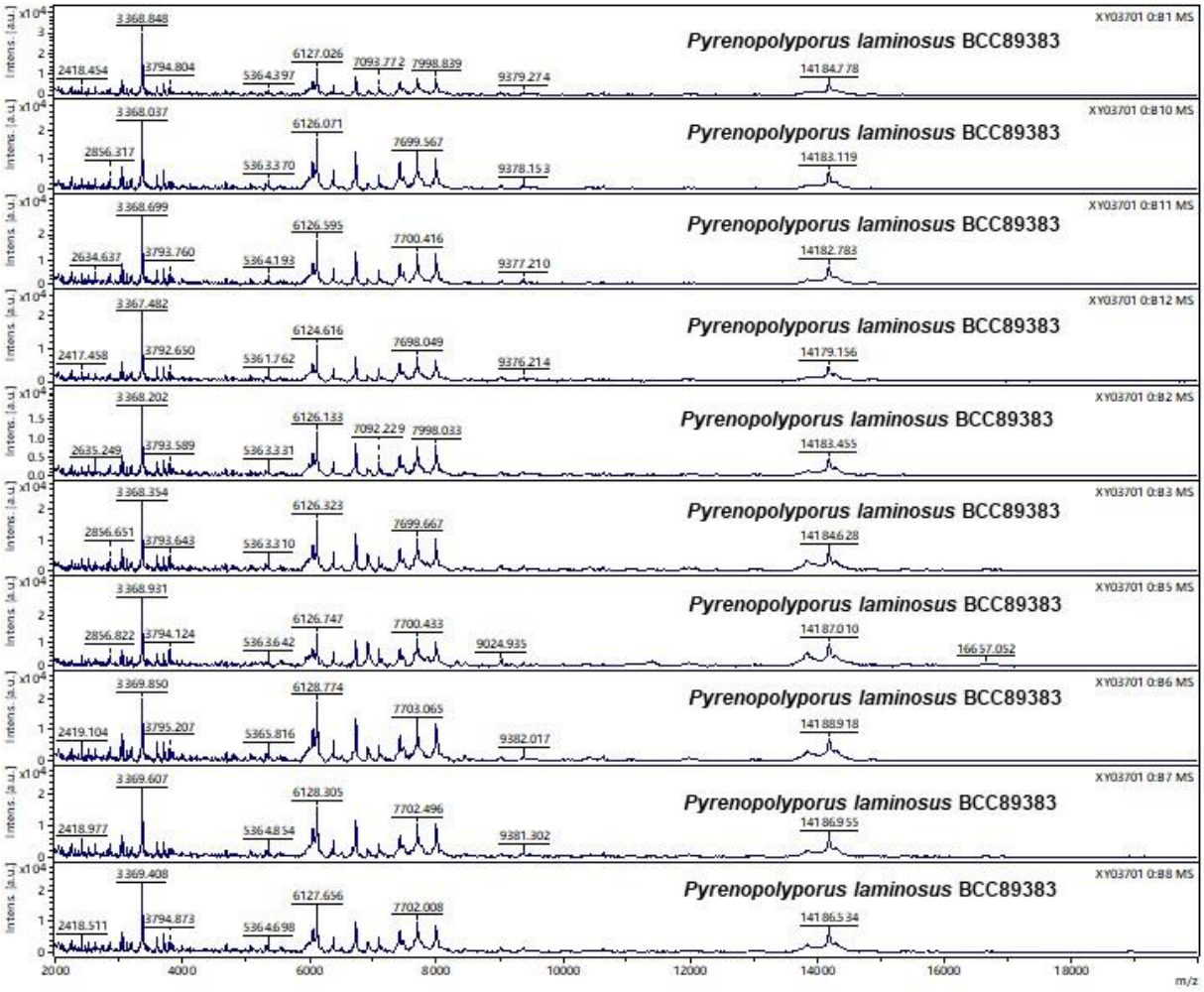
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14184.778
XY03701 0:B10 MS
Pyrenopolyporus laminosus BCC89383
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5363.370
7699.567
9378.153
14183.119
XY03701 0:B11 MS
Pyrenopolyporus laminosus BCC89383
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2634.637
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6126.595
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9377.210
14182.783
XY03701 0:B12 MS
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3367.482
2417.458
3792.650
6124.616
5361.762
7698.049
9376.214
14179.156
XY03701 0:B2 MS
Pyrenopolyporus laminosus BCC89383
3368.202
2635.249
3793.589
6126.133
7092.229
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XY03701 0:B3 MS
Pyrenopolyporus laminosus BCC89383
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3793.643
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7699.667
14184.628
XY03701 0:B5 MS
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2856.822
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14187.010
16657.052
XY03701 0:B6 MS
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2419.104
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XY03701 0:B7 MS
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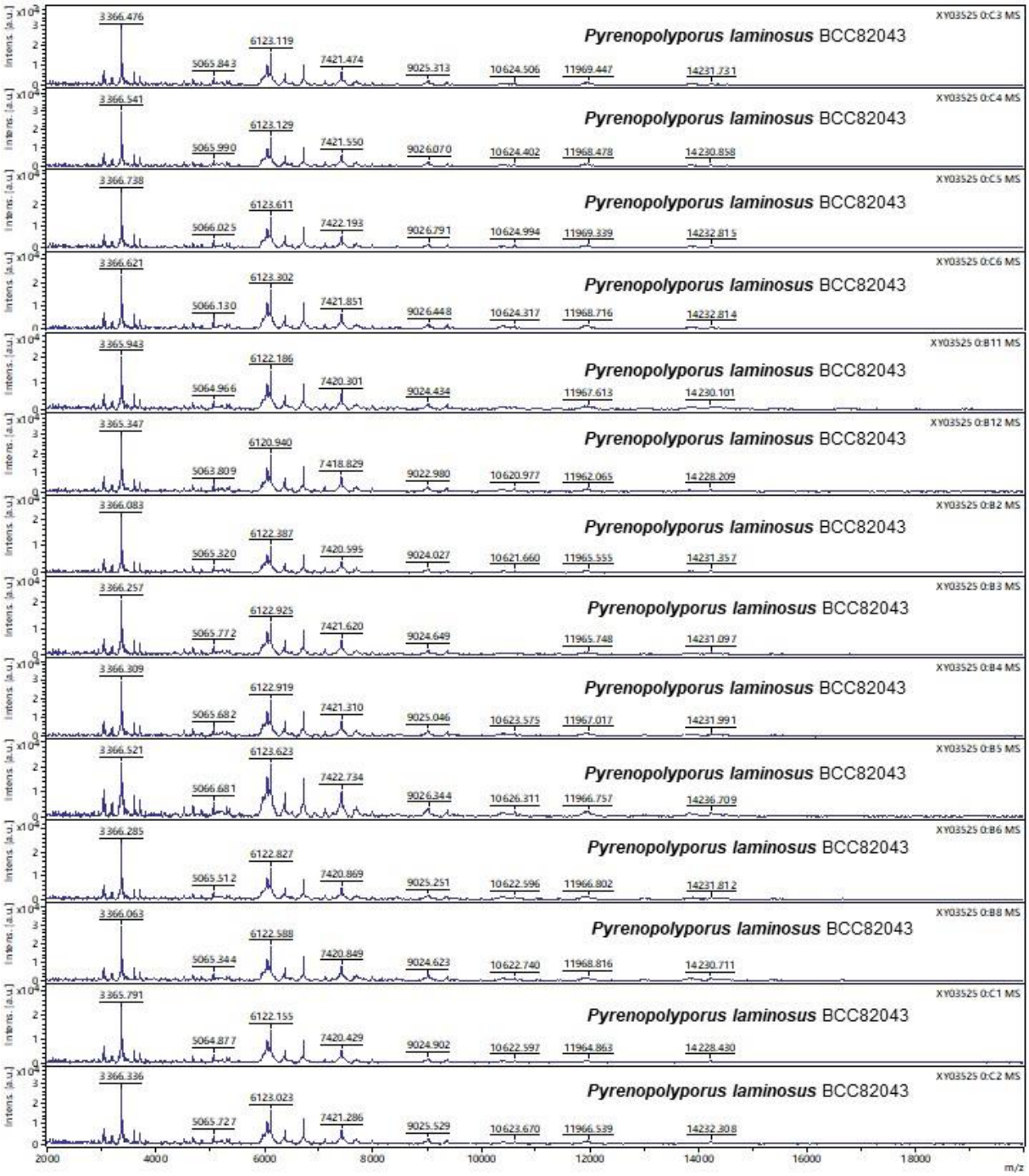
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XY03525 0:C4 MS
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7421.550
9026.070
10624.402
11968.478
14230.858
XY03525 0:C5 MS
Pyrenopolyporus laminosus BCC82043
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5066.025
7422.193
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XY03525 0:C6 MS
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11968.716
14232.814
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Pyrenopolyporus laminosus BCC82043
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9024.434
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14230.101
XY03525 0:B12 MS
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XY03525 0:B2 MS
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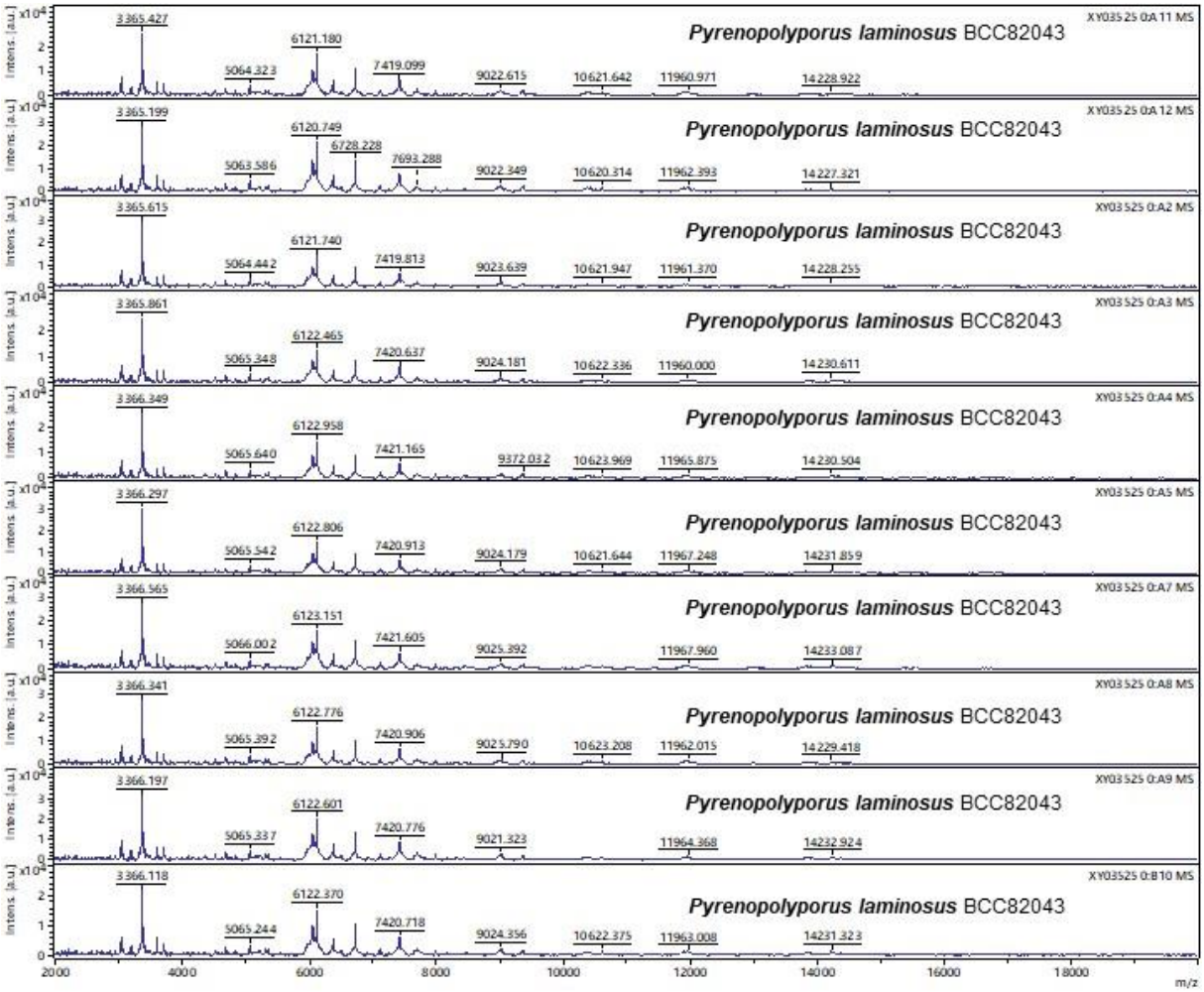
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5063.586
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9022.349
10620.314
11962.393
14227.321
XY03525 0:A2 MS
Pyrenopolyporus laminosus BCC82043
3365.615
6121.740
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7419.813
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11961.370
14228.255
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XY03525 0:A4 MS
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XY03525 0:A5 MS
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10621.644
11967.248
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XY03525 0:A7 MS
Pyrenopolyporus laminosus BCC82043
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XY03525 0:A8 MS
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6122.776
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7420.906
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XY03525 0:A9 MS
Pyrenopolyporus laminosus BCC82043
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6122.601
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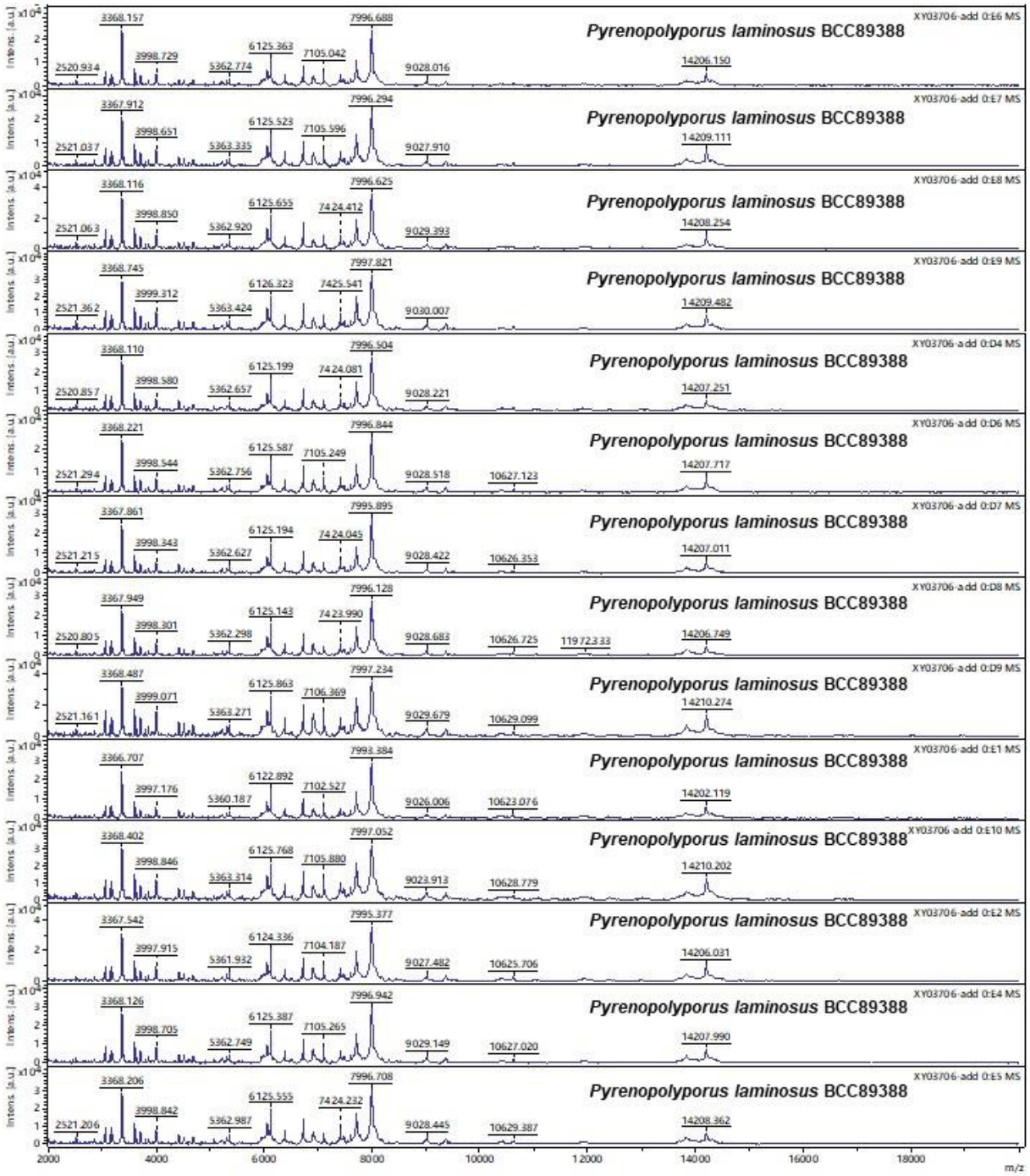
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9028.016
14206.150
Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E7 MS
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7996.294
6125.523
7105.596
3998.651
5363.335
2521.037
9027.910
14209.111
Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E8 MS
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7996.625
6125.655
7424.412
3998.850
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14208.254
Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E9 MS
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7997.821
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7425.541
3999.312
5363.424
2521.362
9030.007
14209.482
Pyrenopolyporus laminosus BCC89388
XY03706-add 0:D4 MS
3368.110
7996.504
6125.199
7424.081
3998.580
5362.657
2520.857
9028.221
14207.251
Pyrenopolyporus laminosus BCC89388
XY03706-add 0:D6 MS
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6125.587
7105.249
3998.544
5362.756
2521.294
9028.518
10627.123
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Pyrenopolyporus laminosus BCC89388
XY03706-add 0:D7 MS
3367.861
7995.895
6125.194
7424.045
3998.343
5362.627
2521.215
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10626.353
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Pyrenopolyporus laminosus BCC89388
XY03706-add 0:D8 MS
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7996.128
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7423.990
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XY03706-add 0:D9 MS
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7997.234
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7106.369
3999.071
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2521.161
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XY03706-add 0:E1 MS
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6122.892
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5360.187
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XY03706-add 0:E10 MS
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7105.880
3998.846
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Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E2 MS
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6124.336
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Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E4 MS
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7105.265
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Pyrenopolyporus laminosus BCC89388
XY03706-add 0:E5 MS
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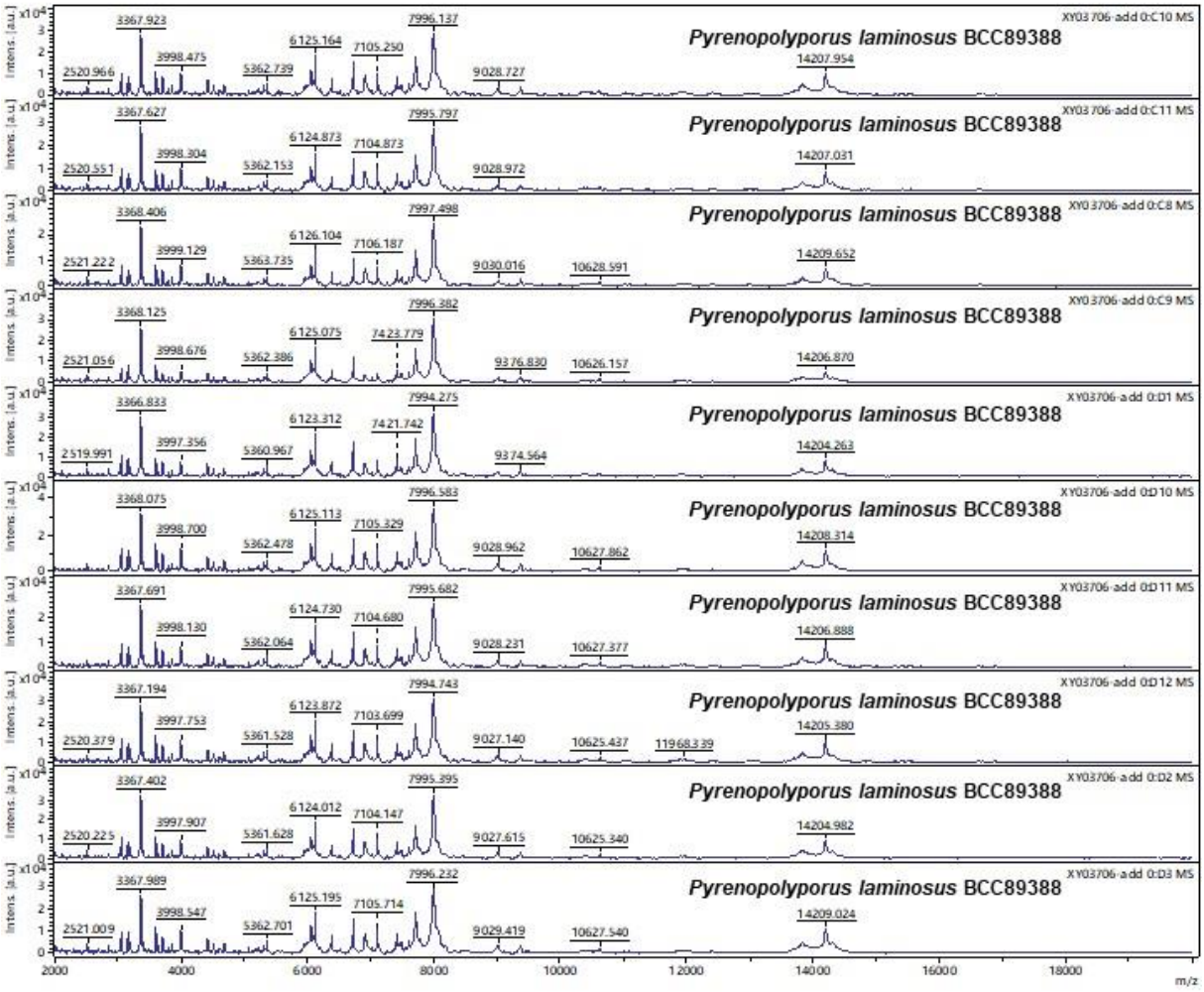
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XY03706-add 0:C11 MS
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XY03706-add 0:C8 MS
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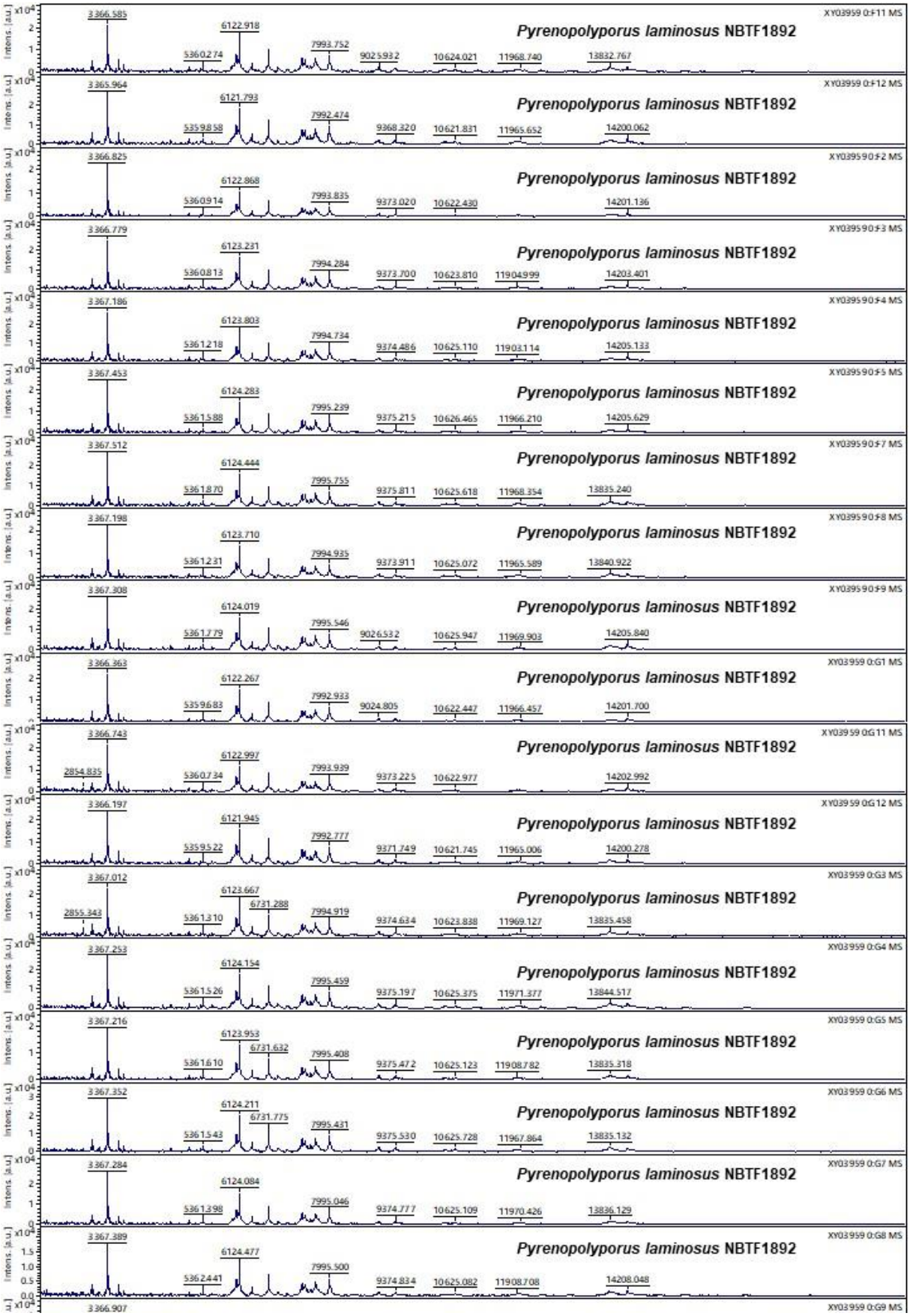
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XY03959 0:F12 MS
Pyrenopolyporus laminosus NBTF1892
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9368.320
10621.831
11965.652
14200.062
XY03959 0:F2 MS
Pyrenopolyporus laminosus NBTF1892
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Pyrenopolyporus laminosus NBTF1892
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5360.813
9373.700
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11904.999
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Pyrenopolyporus laminosus NBTF1892
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11903.114
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Pyrenopolyporus laminosus NBTF1892
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11966.457
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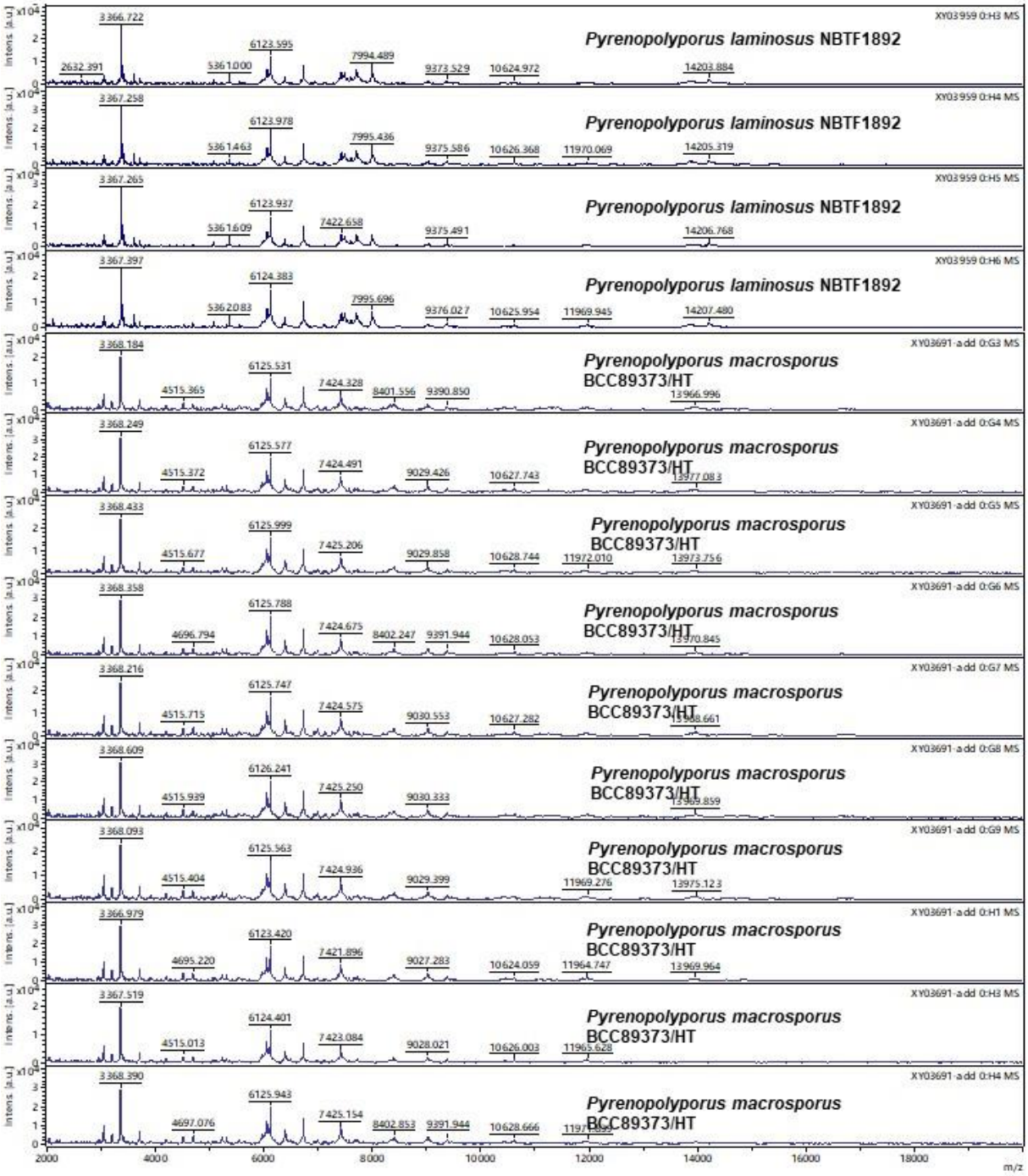
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XY03959 0:H4 MS
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7995.436
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11970.069
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XY03959 0:H5 MS
Pyrenopolyporus laminosus NBTF1892
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7422.658
5361.609
9375.491
14206.768
XY03959 0:H6 MS
Pyrenopolyporus laminosus NBTF1892
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7995.696
5362.083
9376.027
10625.954
11969.945
14207.480
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Pyrenopolyporus macrosporus
BCC89373/HT
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7424.328
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XY03691 add 0:G4 MS
Pyrenopolyporus macrosporus
BCC89373/HT
3368.249
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10627.743
13977.083
XY03691 add 0:G5 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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9029.858
10628.744
11972.010
13973.756
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Pyrenopolyporus macrosporus
BCC89373/HT
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6125.788
7424.675
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8402.247
9391.944
10628.053
13970.845
XY03691 add 0:G7 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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6125.747
7424.575
4515.715
9030.553
10627.282
13968.661
XY03691 add 0:G8 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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7425.250
4515.939
9030.333
13969.859
XY03691 add 0:G9 MS
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BCC89373/HT
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6125.563
7424.936
4515.404
9029.399
11969.276
13975.123
XY03691 add 0:H1 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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10624.059
11964.747
13969.964
XY03691 add 0:H3 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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6124.401
7423.084
4515.013
9028.021
10626.003
11965.628
XY03691 add 0:H4 MS
Pyrenopolyporus macrosporus
BCC89373/HT
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10628.666
Intens. [a.u.]
x10^4
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12000
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16000
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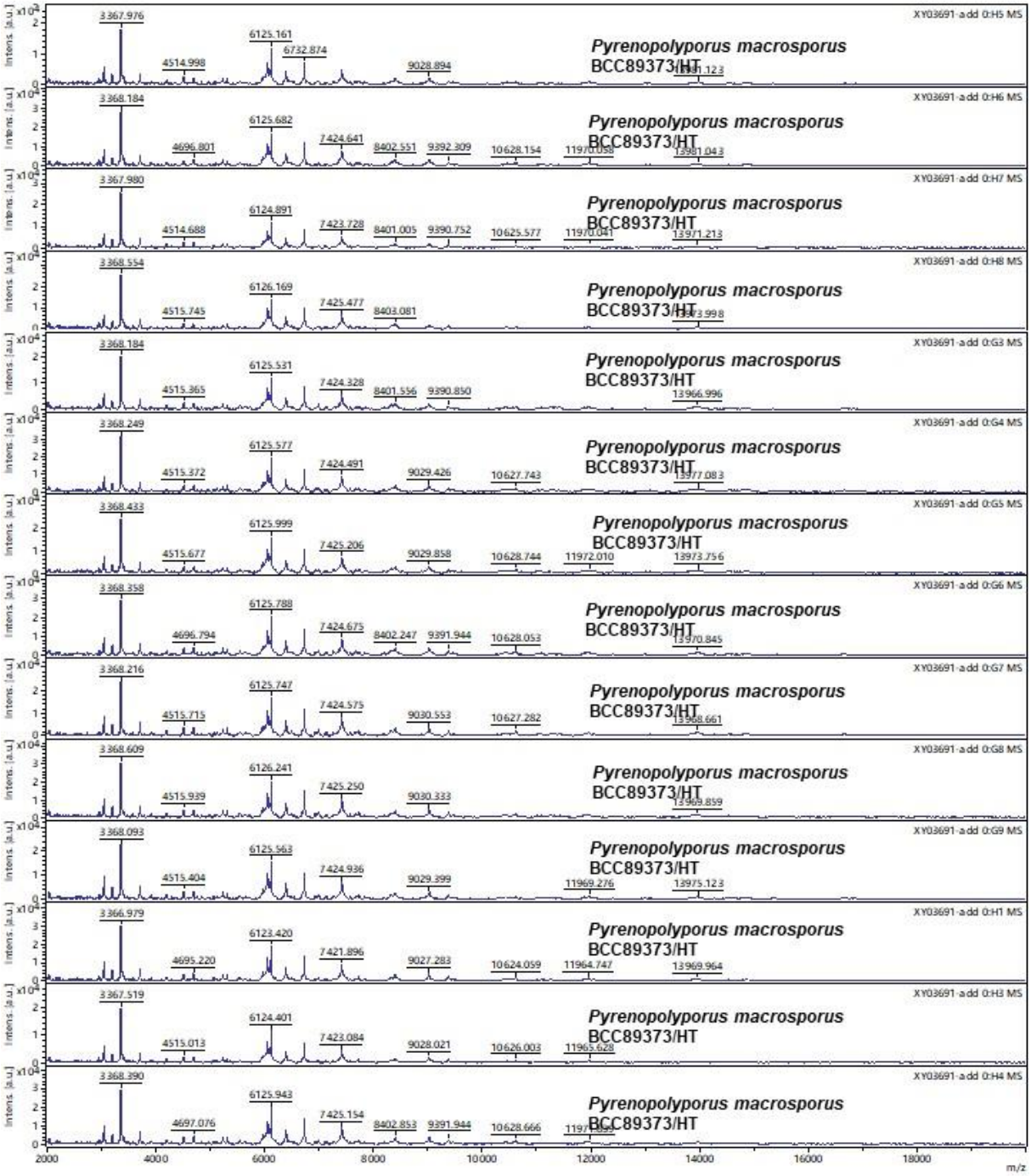
m/z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Pyrenopolyporus macrosporus
BCC89373/HT
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4514.998
9028.894
13981.123
XY03691-add 0:H6 MS
Pyrenopolyporus macrosporus
BCC89373/HT
3368.184
6125.682
7424.641
4696.801
8402.551
9392.309
10628.154
11970.058
13981.043
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Pyrenopolyporus macrosporus
BCC89373/HT
3367.980
6124.891
7423.728
4514.688
8401.005
9390.752
10625.577
11970.041
13971.213
XY03691-add 0:H8 MS
Pyrenopolyporus macrosporus
BCC89373/HT
3368.554
6126.169
7425.477
4515.745
8403.081
13973.998
XY03691-add 0:G3 MS
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BCC89373/HT
3368.184
6125.531
7424.328
4515.365
8401.556
9390.850
13966.996
XY03691-add 0:G4 MS
Pyrenopolyporus macrosporus
BCC89373/HT
3368.249
6125.577
7424.491
4515.372
9029.426
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XY03691-add 0:G5 MS
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BCC89373/HT
3368.433
6125.999
7425.206
4515.677
9029.858
10628.744
11972.010
13973.756
XY03691-add 0:G6 MS
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9391.944
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13970.845
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9030.553
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BCC89373/HT
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10624.059
11964.747
13969.964
XY03691-add 0:H3 MS
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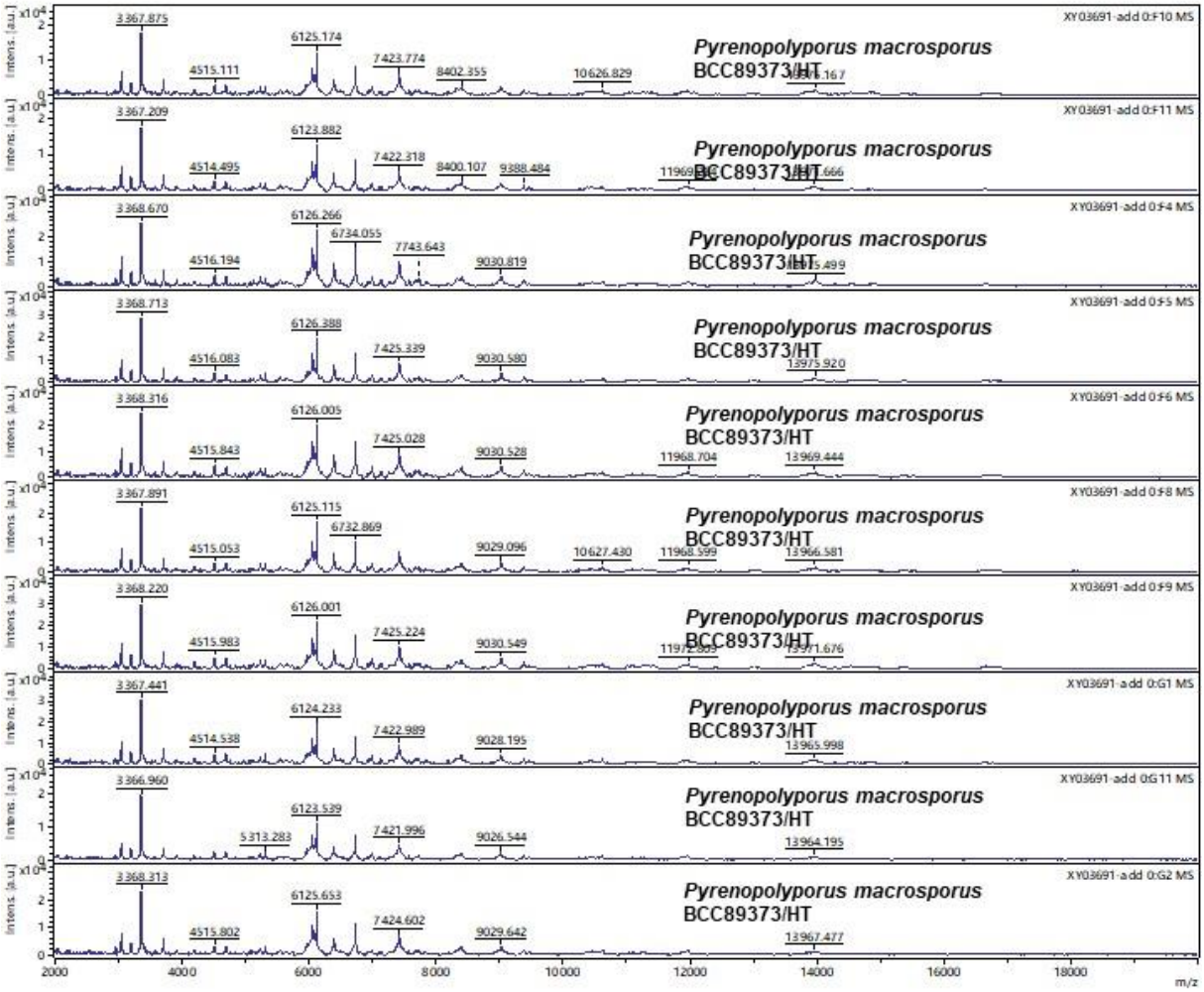
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XY03691-add 0:F11 MS
3367.209
6123.882
4514.495
7422.318
8400.107
9388.484
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:F4 MS
3368.670
6126.266
6734.055
4516.194
7743.643
9030.819
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:F5 MS
3368.713
6126.388
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7425.339
9030.580
13975.920
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BCC89373/HT
XY03691-add 0:F6 MS
3368.316
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BCC89373/HT
XY03691-add 0:F8 MS
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6125.115
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4515.053
9029.096
10627.430
11968.599
13966.581
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:F9 MS
3368.220
6126.001
4515.983
7425.224
9030.549
13971.676
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:G1 MS
3367.441
6124.233
4514.538
7422.989
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13965.998
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:G11 MS
3366.960
6123.539
5313.283
7421.996
9026.544
13964.195
Pyrenopolyporus macrosporus
BCC89373/HT
XY03691-add 0:G2 MS
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6125.653
4515.802
7424.602
9029.642
13967.477
Pyrenopolyporus macrosporus
BCC89373/HT
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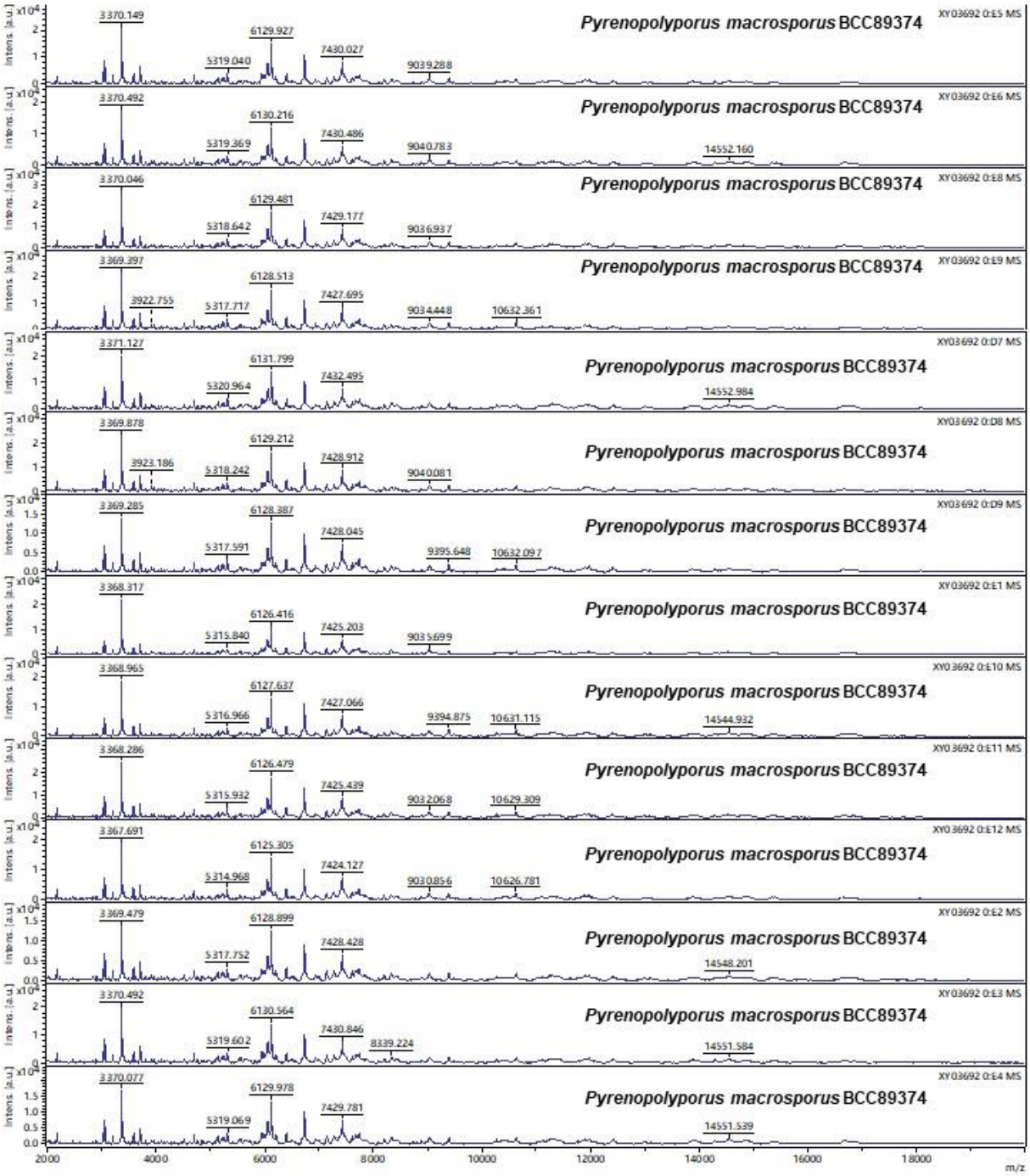
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XY03692 0:E6 MS
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6130.216
5319.369
7430.486
9040.783
14552.160
XY03692 0:E8 MS
3370.046
6129.481
5318.642
7429.177
9036.937
XY03692 0:E9 MS
3369.397
6128.513
3922.755
5317.717
7427.695
9034.448
10632.361
XY03692 0:D7 MS
3371.127
6131.799
5320.964
7432.495
14552.984
XY03692 0:D8 MS
3369.878
6129.212
3923.186
5318.242
7428.912
9040.081
XY03692 0:D9 MS
3369.285
6128.387
5317.591
7428.045
9395.648
10632.097
XY03692 0:E1 MS
3368.317
6126.416
5315.840
7425.203
9035.699
XY03692 0:E10 MS
3368.965
6127.637
5316.966
7427.066
9394.875
10631.115
14544.932
XY03692 0:E11 MS
3368.286
6126.479
5315.932
7425.439
9032.068
10629.309
XY03692 0:E12 MS
3367.691
6125.305
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7424.127
9030.856
10626.781
XY03692 0:E2 MS
3369.479
6128.899
5317.752
7428.428
14548.201
XY03692 0:E3 MS
3370.492
6130.564
5319.602
7430.846
8339.224
14551.584
XY03692 0:E4 MS
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6129.978
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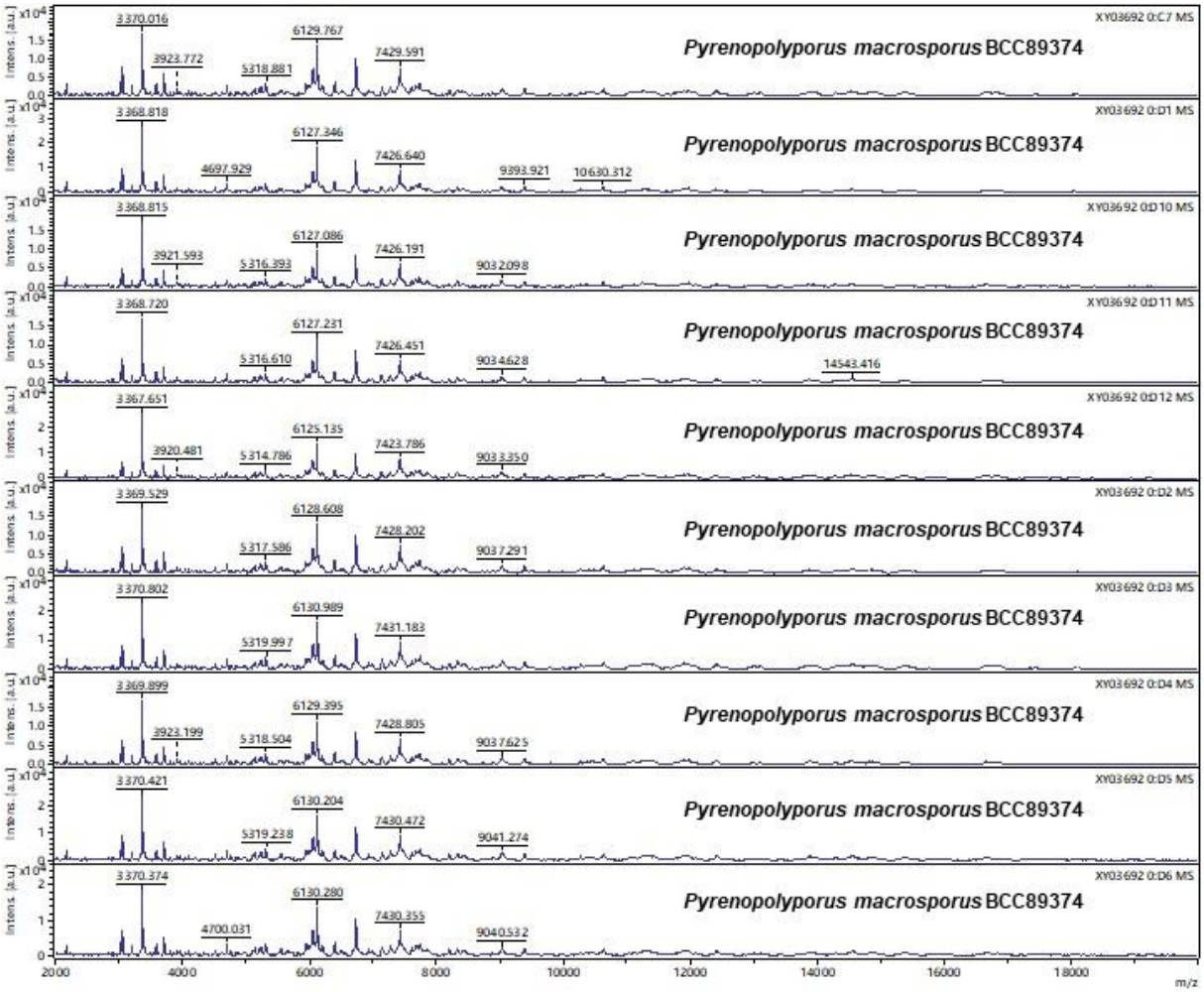
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7429.591
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XY03692 0:D1 MS
3368.818
6127.346
7426.640
4697.929
9393.921
10630.312
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D10 MS
3368.815
6127.086
3921.593
5316.393
7426.191
9032.098
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D11 MS
3368.720
6127.231
5316.610
7426.451
9034.628
14543.416
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D12 MS
3367.651
6125.135
3920.481
5314.786
7423.786
9033.350
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D2 MS
3369.529
6128.608
5317.586
7428.202
9037.291
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D3 MS
3370.802
6130.989
5319.997
7431.183
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D4 MS
3369.899
6129.395
3923.199
5318.504
7428.805
9037.625
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D5 MS
3370.421
6130.204
5319.238
7430.472
9041.274
Pyrenopolyporus macrosporus BCC89374
XY03692 0:D6 MS
3370.374
6130.280
4700.031
7430.355
9040.532
Pyrenopolyporus macrosporus BCC89374
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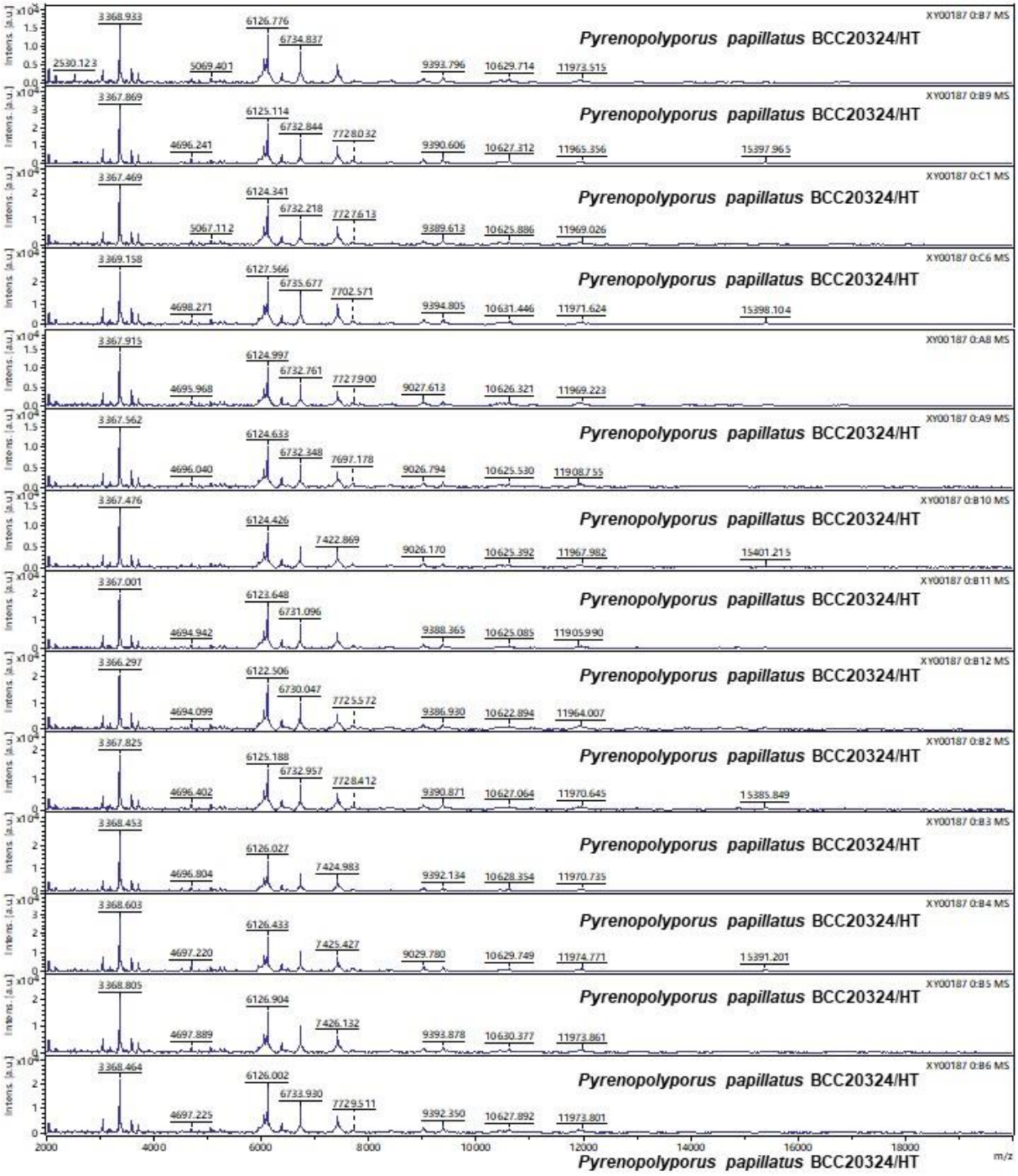
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9393.796
10629.714
11973.515
XY00187 0:B9 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.869
6125.114
6732.844
7728.032
4696.241
9390.606
10627.312
11965.356
15397.965
XY00187 0:C1 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.469
6124.341
6732.218
7727.613
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10625.886
11969.026
XY00187 0:C6 MS
Pyrenopolyporus papillatus BCC20324/HT
3369.158
6127.566
6735.677
7702.571
4698.271
9394.805
10631.446
11971.624
15398.104
XY00187 0:A8 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.915
6124.997
6732.761
7727.900
4695.968
9027.613
10626.321
11969.223
XY00187 0:A9 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.562
6124.633
6732.348
7697.178
4696.040
9026.794
10625.530
11908.755
XY00187 0:B10 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.476
6124.426
7422.869
9026.170
10625.392
11967.982
15401.215
XY00187 0:B11 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.001
6123.648
6731.096
4694.942
9388.365
10625.085
11905.990
XY00187 0:B12 MS
Pyrenopolyporus papillatus BCC20324/HT
3366.297
6122.506
6730.047
7725.572
4694.099
9386.930
10622.894
11964.007
XY00187 0:B2 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.825
6125.188
6732.957
7728.412
4696.402
9390.871
10627.064
11970.645
15385.849
XY00187 0:B3 MS
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3368.453
6126.027
7424.983
4696.804
9392.134
10628.354
11970.735
XY00187 0:B4 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.603
6126.433
7425.427
4697.220
9029.780
10629.749
11974.771
15391.201
XY00187 0:B5 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.805
6126.904
7426.132
4697.889
9393.878
10630.377
11973.861
XY00187 0:B6 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.464
6126.002
6733.930
7729.511
4697.225
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10627.892
11973.801
Intens. [a.u.]
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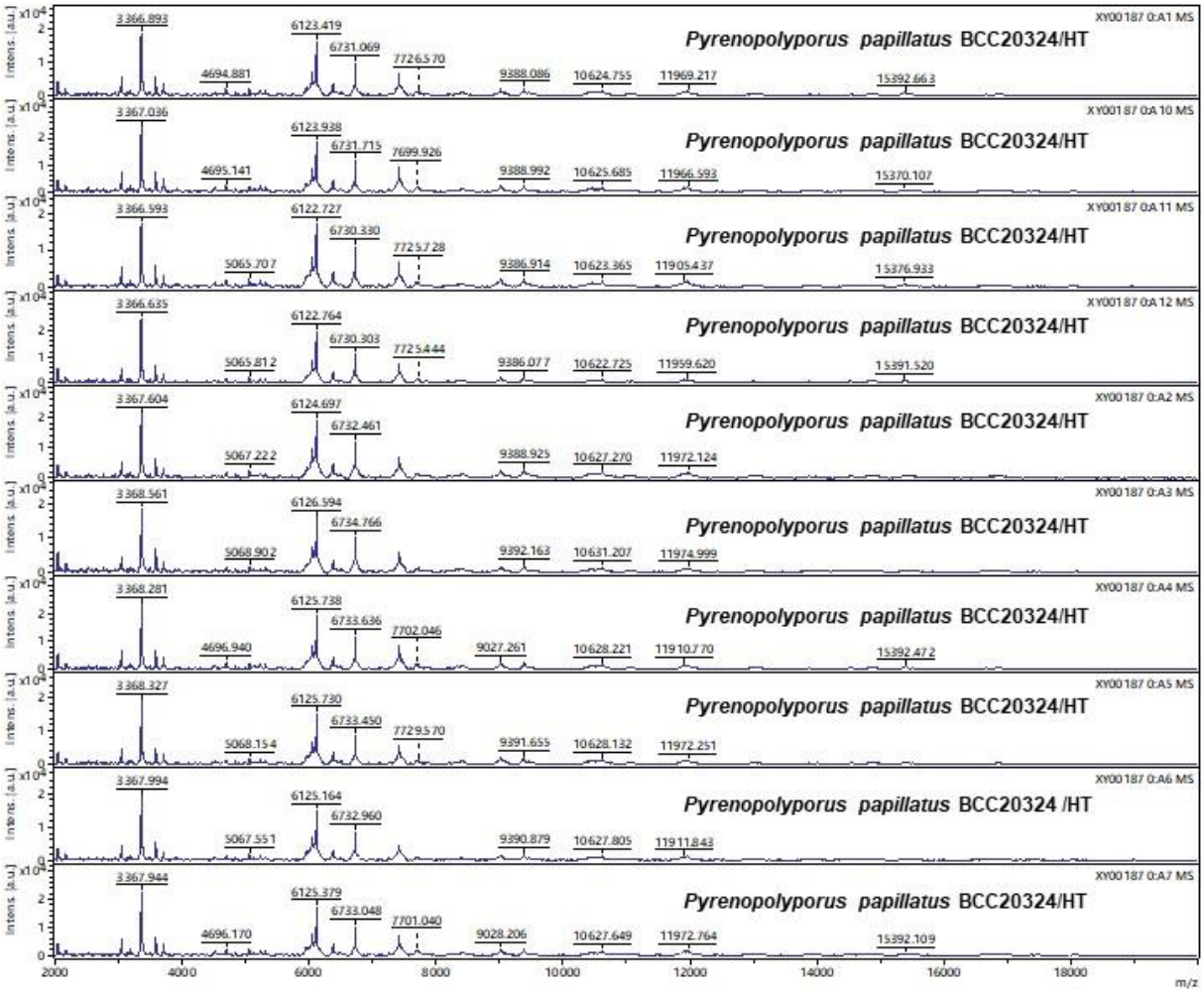
18000
m/z
Pyrenopolyporus papillatus BCC20324/HT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Pyrenopolyporus papillatus BCC20324/HT
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10624.755
11969.217
15392.663
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6123.938
6731.715
7699.926
4695.141
9388.992
10625.685
11966.593
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XY00187 0:A11 MS
Pyrenopolyporus papillatus BCC20324/HT
3366.593
6122.727
6730.330
7725.728
5065.707
9386.914
10623.365
11905.437
15376.933
XY00187 0:A12 MS
Pyrenopolyporus papillatus BCC20324/HT
3366.635
6122.764
6730.303
7725.444
5065.812
9386.077
10622.725
11959.620
15391.520
XY00187 0:A2 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.604
6124.697
6732.461
5067.222
9388.925
10627.270
11972.124
XY00187 0:A3 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.561
6126.594
6734.766
5068.902
9392.163
10631.207
11974.999
XY00187 0:A4 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.281
6125.738
6733.636
7702.046
4696.940
9027.261
10628.221
11910.770
15392.472
XY00187 0:A5 MS
Pyrenopolyporus papillatus BCC20324/HT
3368.327
6125.730
6733.450
7729.570
5068.154
9391.655
10628.132
11972.251
XY00187 0:A6 MS
Pyrenopolyporus papillatus BCC20324 /HT
3367.994
6125.164
6732.960
5067.551
9390.879
10627.805
11911.843
XY00187 0:A7 MS
Pyrenopolyporus papillatus BCC20324/HT
3367.944
6125.379
6733.048
7701.040
4696.170
9028.206
10627.649
11972.764
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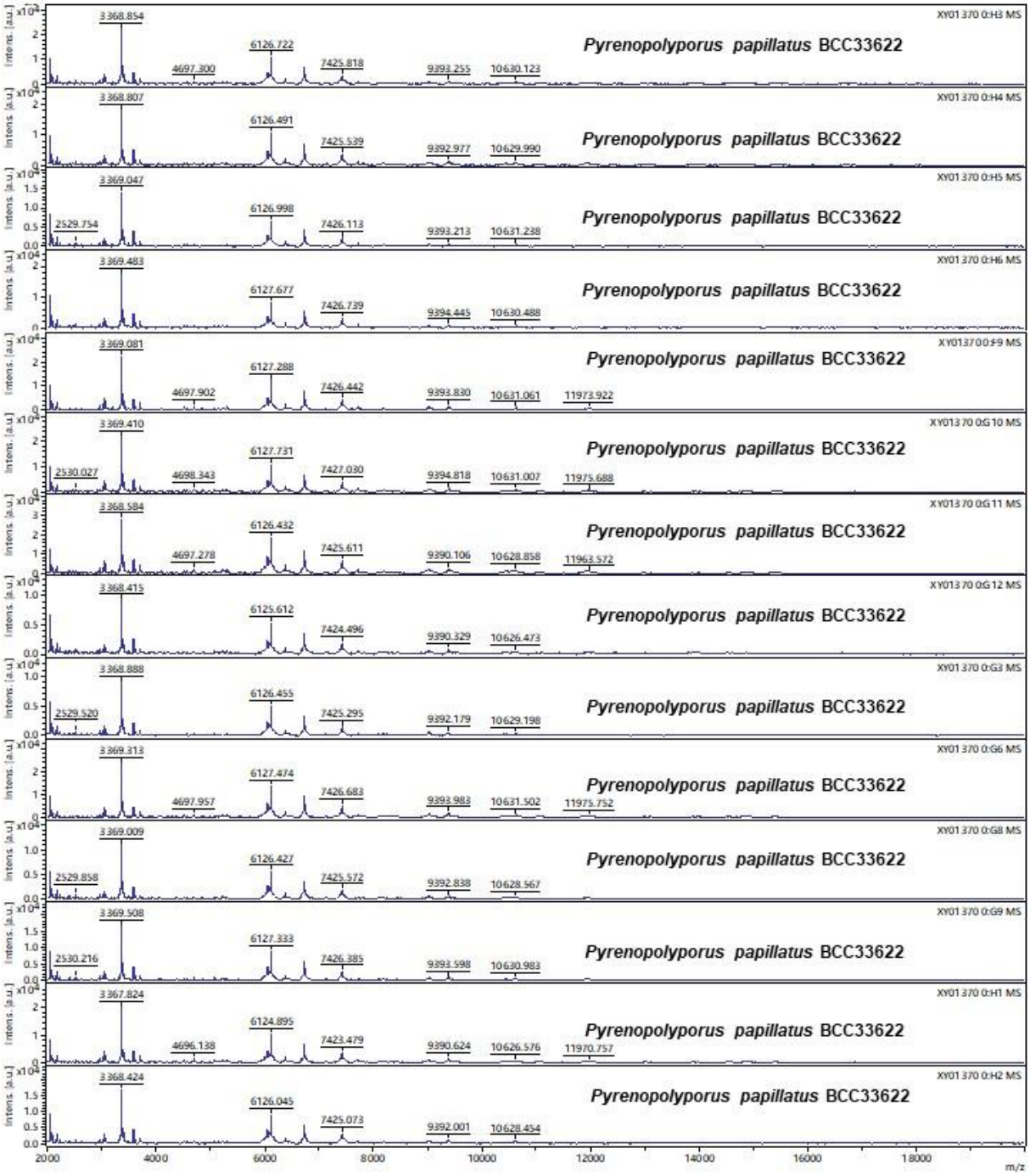
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Pyrenopolyporus papillatus BCC33622
XY01370:H4 MS
3368.807
6126.491
7425.539
9392.977
10629.990
Pyrenopolyporus papillatus BCC33622
XY01370:H5 MS
3369.047
2529.754
6126.998
7426.113
9393.213
10631.238
Pyrenopolyporus papillatus BCC33622
XY01370:H6 MS
3369.483
6127.677
7426.739
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Pyrenopolyporus papillatus BCC33622
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Pyrenopolyporus papillatus BCC33622
XY01370:G10 MS
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7427.030
9394.818
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11975.688
Pyrenopolyporus papillatus BCC33622
XY01370:G11 MS
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7425.611
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11963.572
Pyrenopolyporus papillatus BCC33622
XY01370:G12 MS
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9390.329
10626.473
Pyrenopolyporus papillatus BCC33622
XY01370:G3 MS
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6126.455
7425.295
9392.179
10629.198
Pyrenopolyporus papillatus BCC33622
XY01370:G6 MS
3369.313
6127.474
4697.957
7426.683
9393.983
10631.502
11975.752
Pyrenopolyporus papillatus BCC33622
XY01370:G8 MS
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7425.572
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10628.567
Pyrenopolyporus papillatus BCC33622
XY01370:G9 MS
3369.508
2530.216
6127.333
7426.385
9393.598
10630.983
Pyrenopolyporus papillatus BCC33622
XY01370:H1 MS
3367.824
6124.895
4696.138
7423.479
9390.624
10626.576
11970.757
Pyrenopolyporus papillatus BCC33622
XY01370:H2 MS
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7425.073
9392.001
10628.454
Pyrenopolyporus papillatus BCC33622
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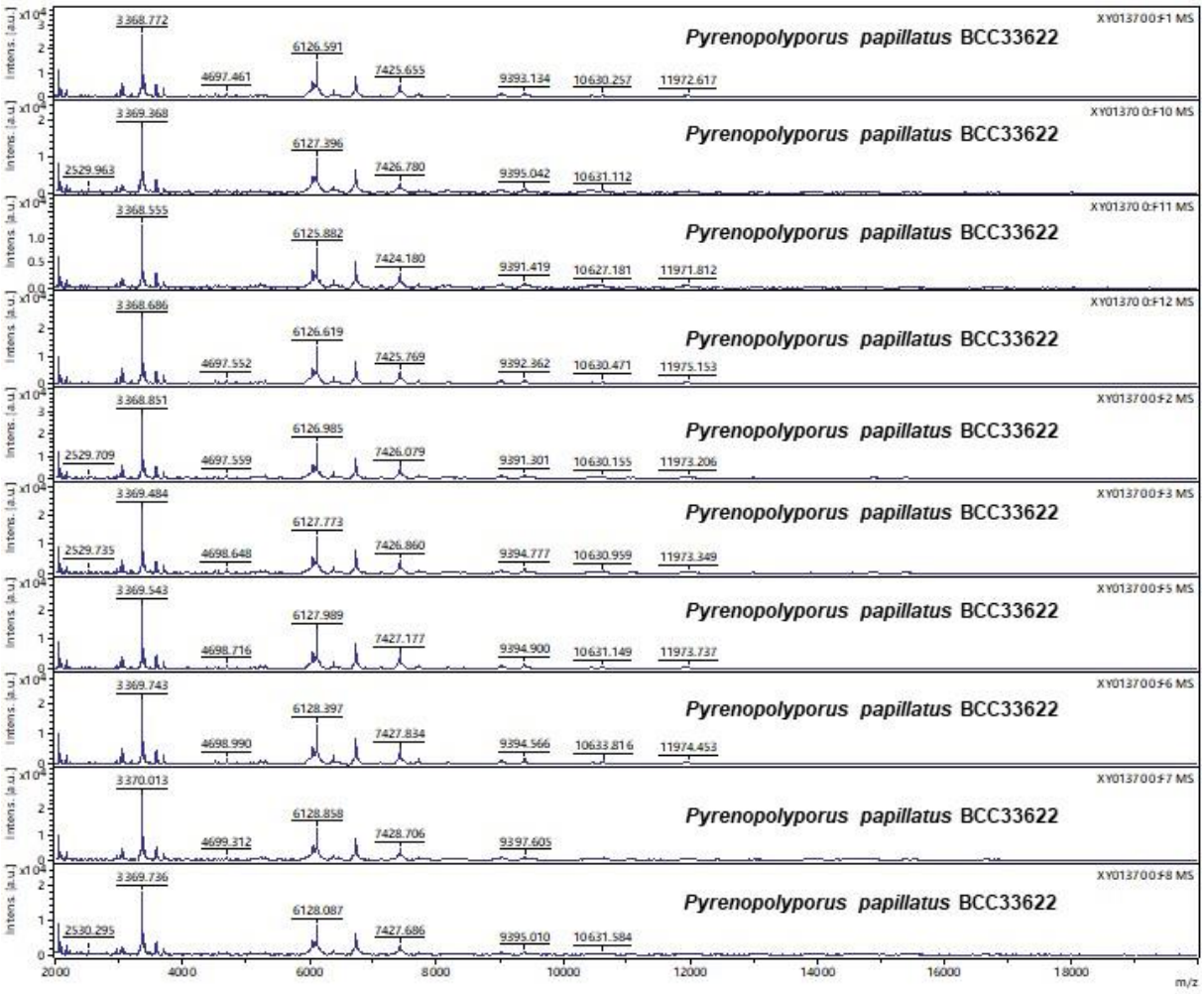
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Pyrenopolyporus papillatus BCC33622
3369.368
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2529.963
7426.780
9395.042
10631.112
XY01370 0:F10 MS
Pyrenopolyporus papillatus BCC33622
3368.555
6125.882
7424.180
9391.419
10627.181
11971.812
XY01370 0:F11 MS
Pyrenopolyporus papillatus BCC33622
3368.686
6126.619
4697.552
7425.769
9392.362
10630.471
11975.153
XY01370 0:F12 MS
Pyrenopolyporus papillatus BCC33622
3368.851
6126.985
2529.709
4697.559
7426.079
9391.301
10630.155
11973.206
XY013700$F2 MS
Pyrenopolyporus papillatus BCC33622
3369.484
6127.773
2529.735
4698.648
7426.860
9394.777
10630.959
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XY013700$F3 MS
Pyrenopolyporus papillatus BCC33622
3369.543
6127.989
4698.716
7427.177
9394.900
10631.149
11973.737
XY013700$F5 MS
Pyrenopolyporus papillatus BCC33622
3369.743
6128.397
4698.990
7427.834
9394.566
10633.816
11974.453
XY013700$F6 MS
Pyrenopolyporus papillatus BCC33622
3370.013
6128.858
4699.312
7428.706
9397.605
XY013700$F7 MS
Pyrenopolyporus papillatus BCC33622
3369.736
6128.087
2530.295
7427.686
9395.010
10631.584
XY013700$F8 MS
Pyrenopolyporus papillatus BCC33622
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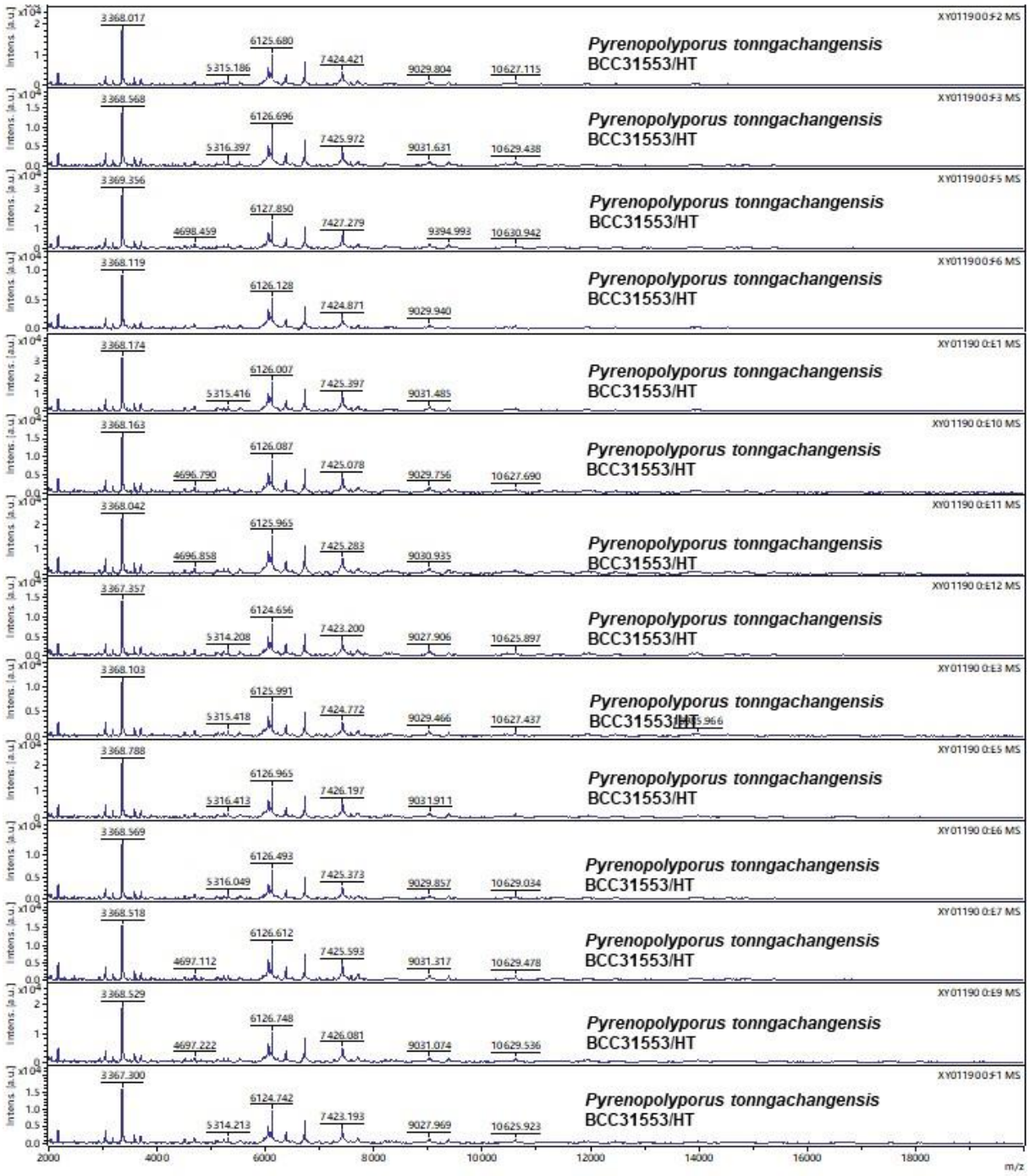
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9029.804
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Pyrenopolyporus tonngachangensis
BCC31553/HT
XY011900:F3 MS
3368.568
6126.696
5316.397
7425.972
9031.631
10629.438
Pyrenopolyporus tonngachangensis
BCC31553/HT
XY011900:F5 MS
3369.356
6127.850
4698.459
7427.279
9394.993
10630.942
Pyrenopolyporus tonngachangensis
BCC31553/HT
XY011900:F6 MS
3368.119
6126.128
7424.871
9029.940
Pyrenopolyporus tonngachangensis
BCC31553/HT
XY01190 0:E1 MS
3368.174
6126.007
5315.416
7425.397
9031.485
Pyrenopolyporus tonngachangensis
BCC31553/HT
XY01190 0:E10 MS
3368.163
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XY01190 0:E12 MS
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5314.208
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7426.197
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XY01190 0:E6 MS
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7425.373
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6126.612
4697.112
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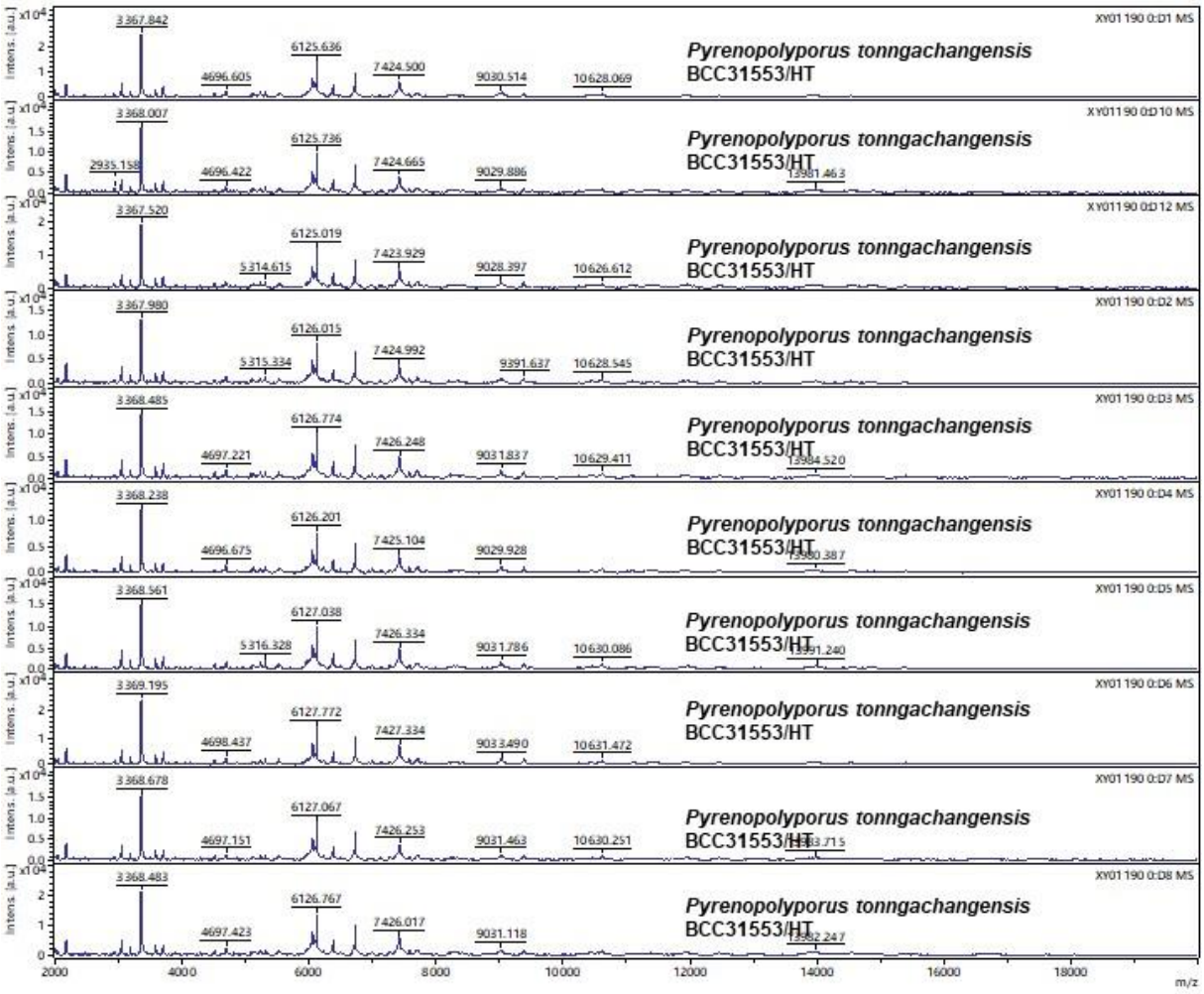
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Pyrenopolyporus tonngachangensis
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7427.334
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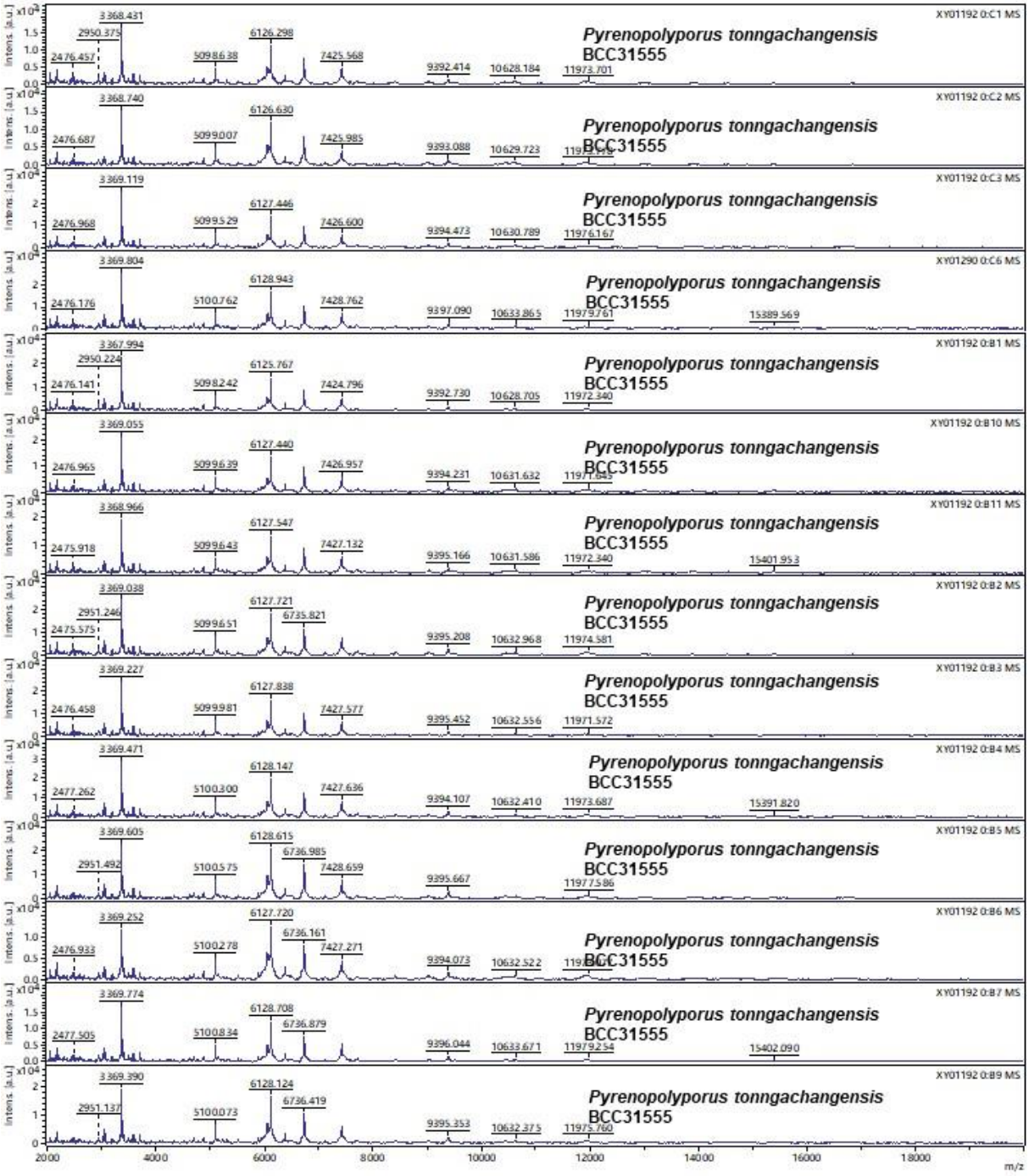
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BCC31555
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BCC31555
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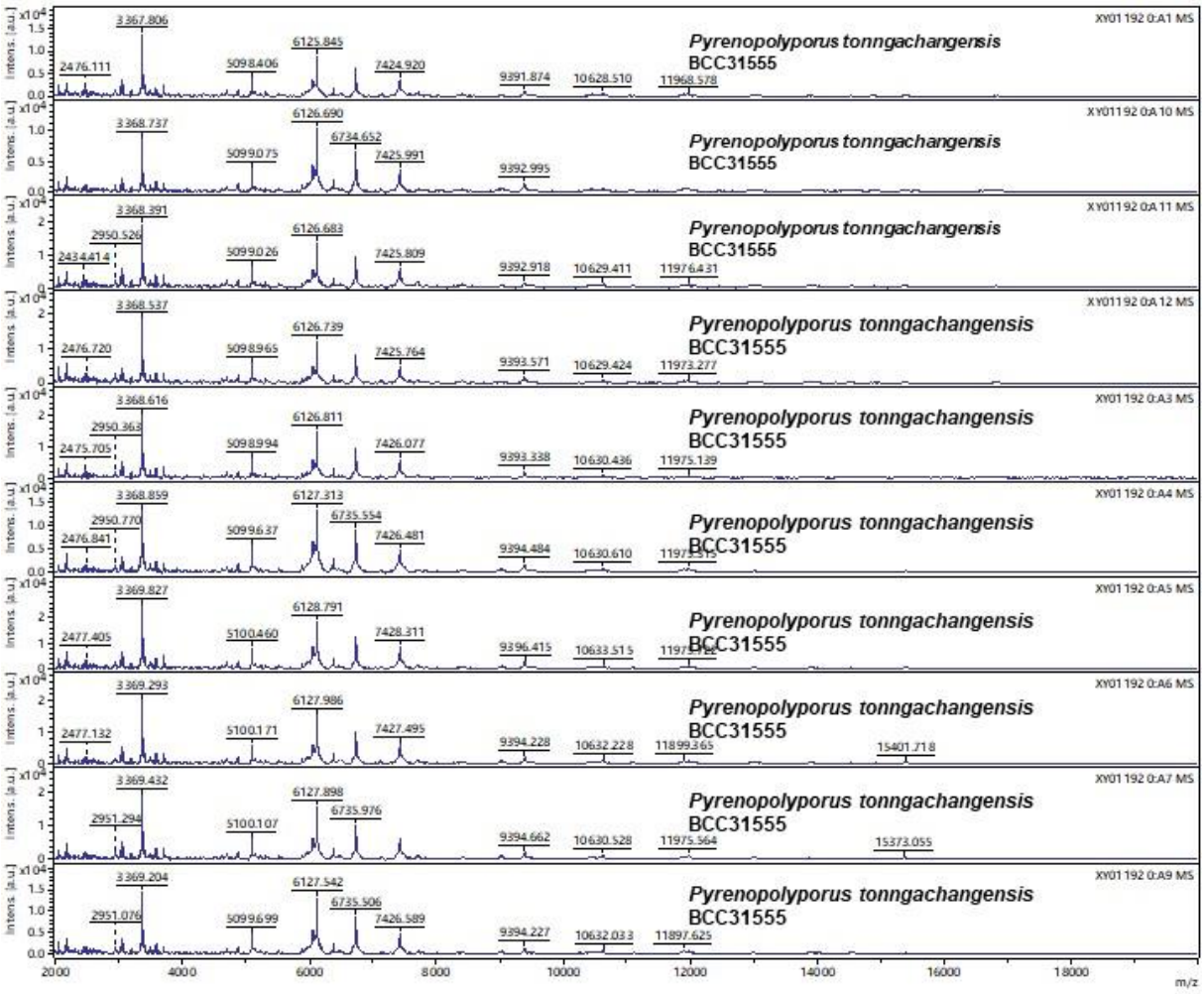
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XY011192 0A10 MS
Pyrenopolyporus tonngachangensis
BCC31555
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11899.365
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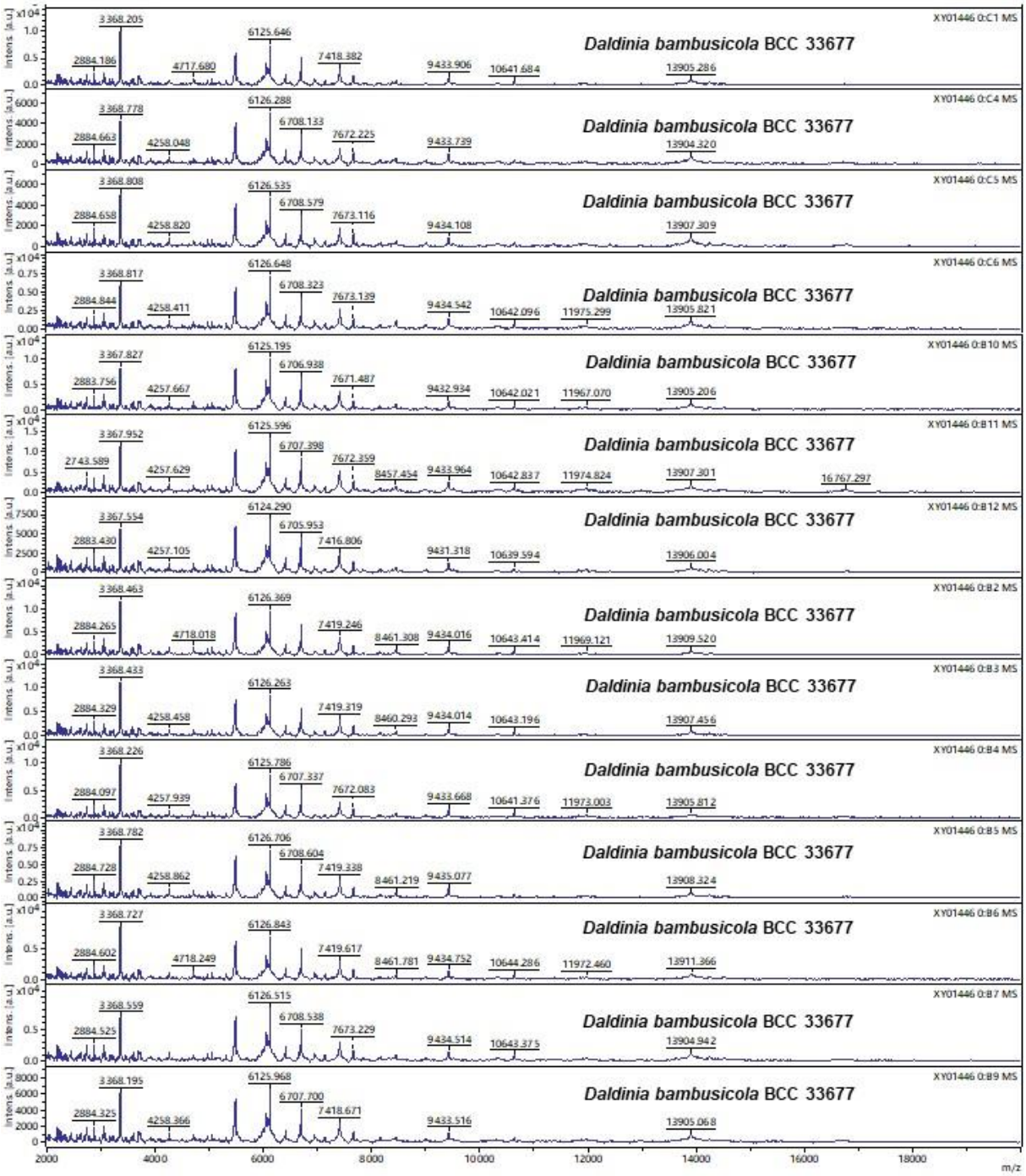
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6126.288
6708.133
2884.663
4258.048
7672.225
9433.739
13904.320
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6708.579
2884.658
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7673.116
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13907.309
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6708.323
2884.844
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7673.139
9434.542
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4257.667
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9432.934
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7672.359
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13907.301
16767.297
XY01446 0:B12 MS
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6705.953
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10639.594
13906.004
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4718.018
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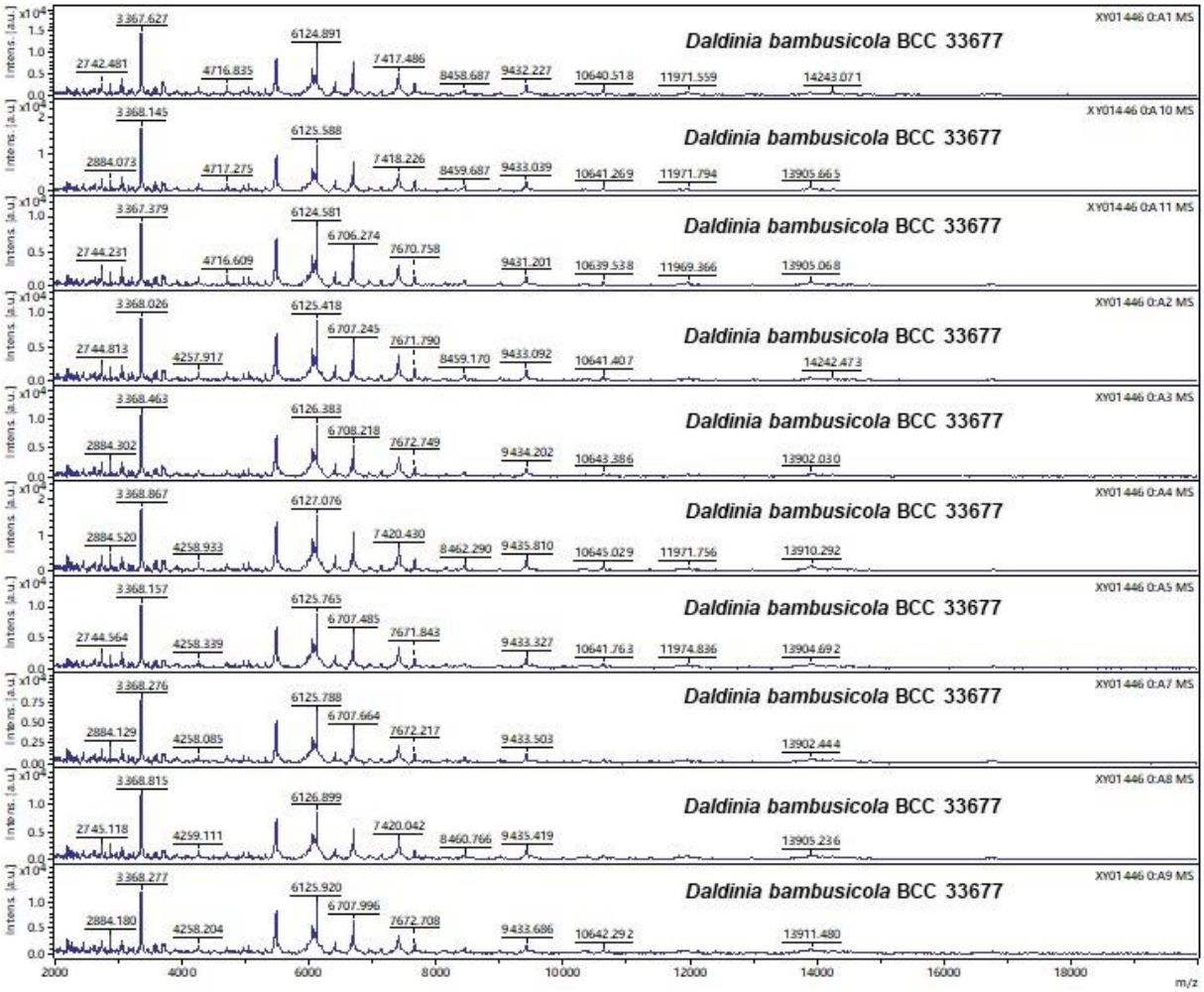
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7420.042
8460.766
9435.419
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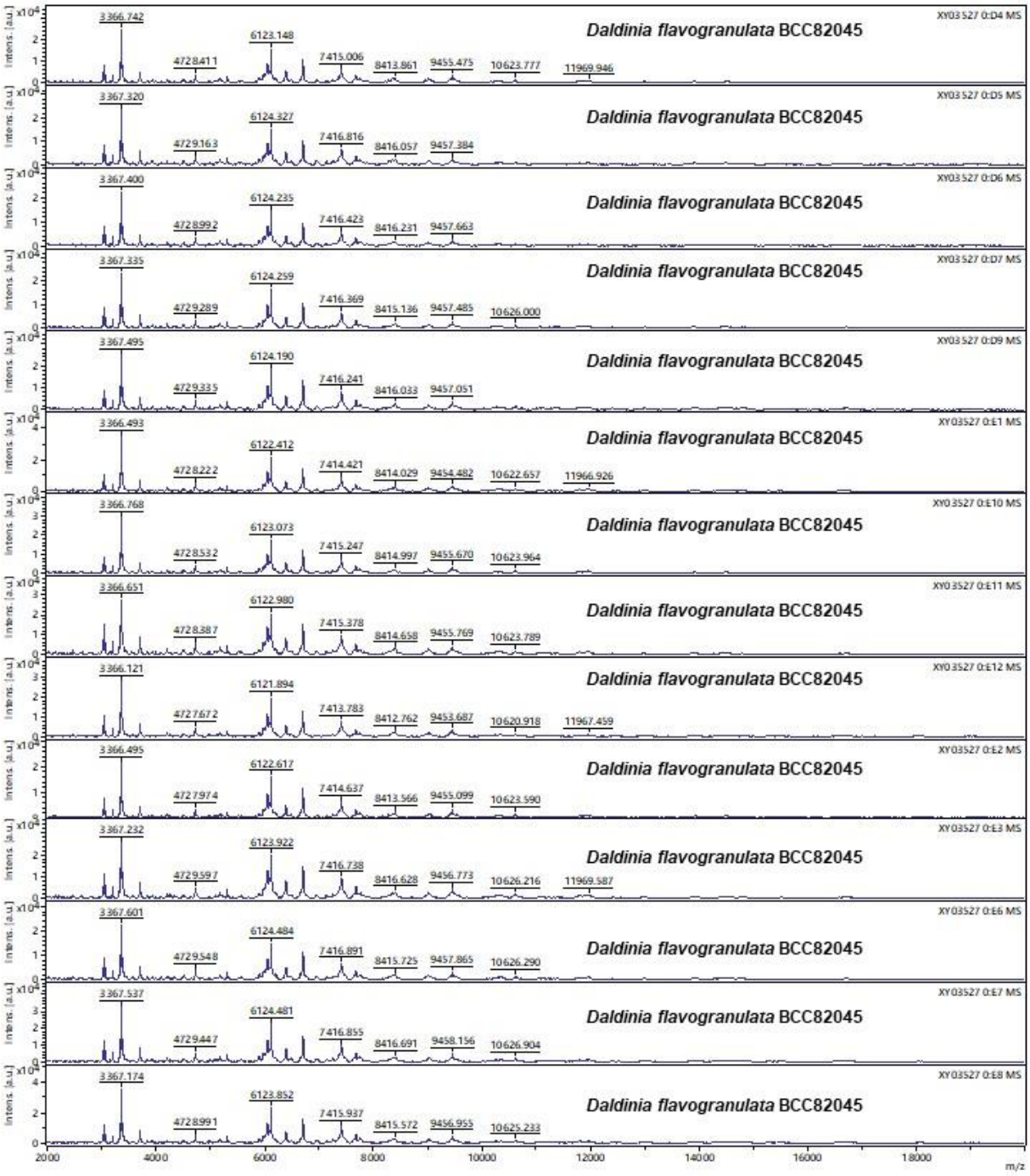
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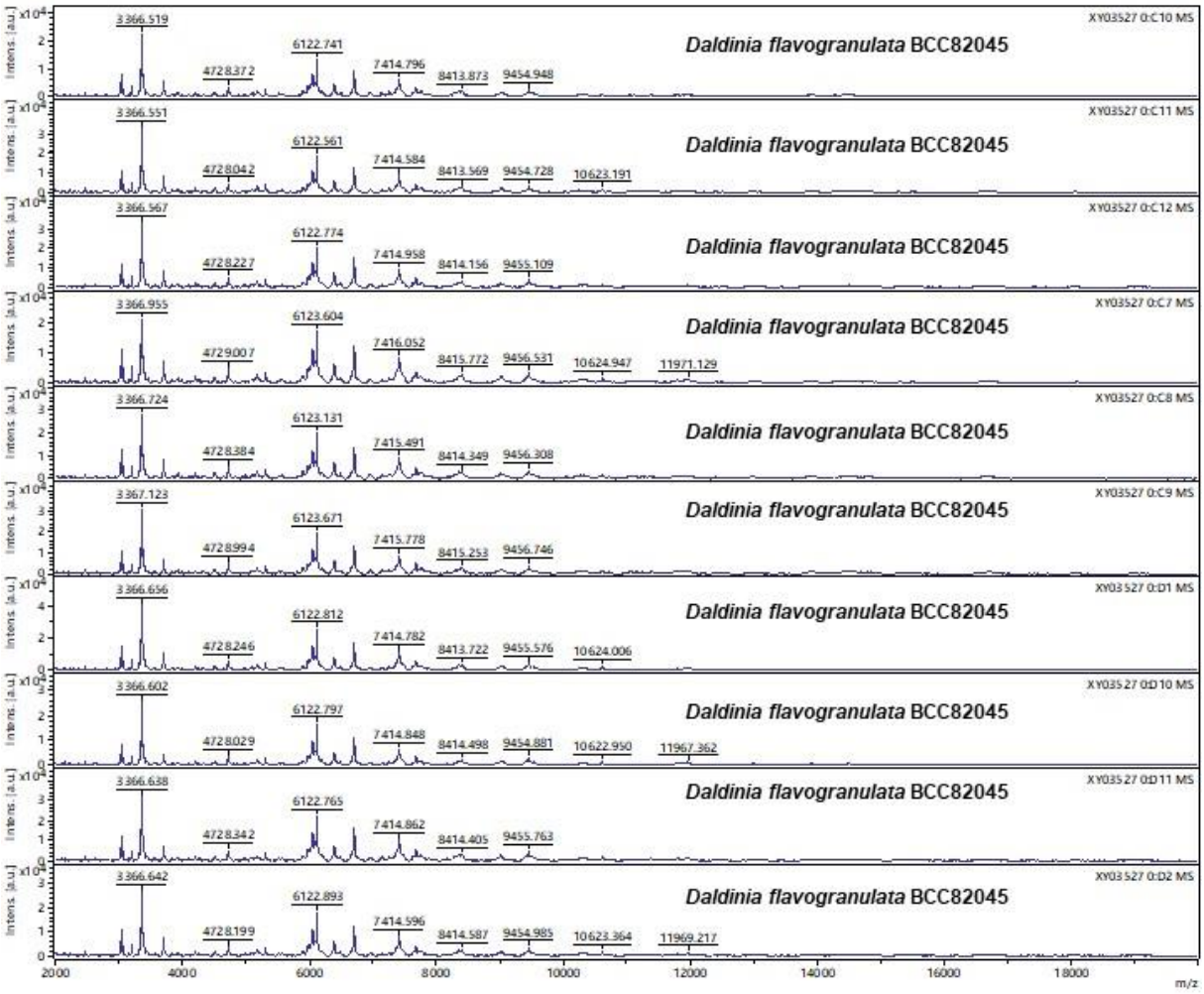
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4728.994
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Daldinia flavogranulata BCC82045
XY03527 0:D1 MS
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4728.246
8413.722
9455.576
10624.006
Daldinia flavogranulata BCC82045
XY03527 0:D10 MS
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7414.848
4728.029
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Daldinia flavogranulata BCC82045
XY03527 0:D11 MS
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7414.862
4728.342
8414.405
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Daldinia flavogranulata BCC82045
XY03527 0:D2 MS
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6122.893
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4728.199
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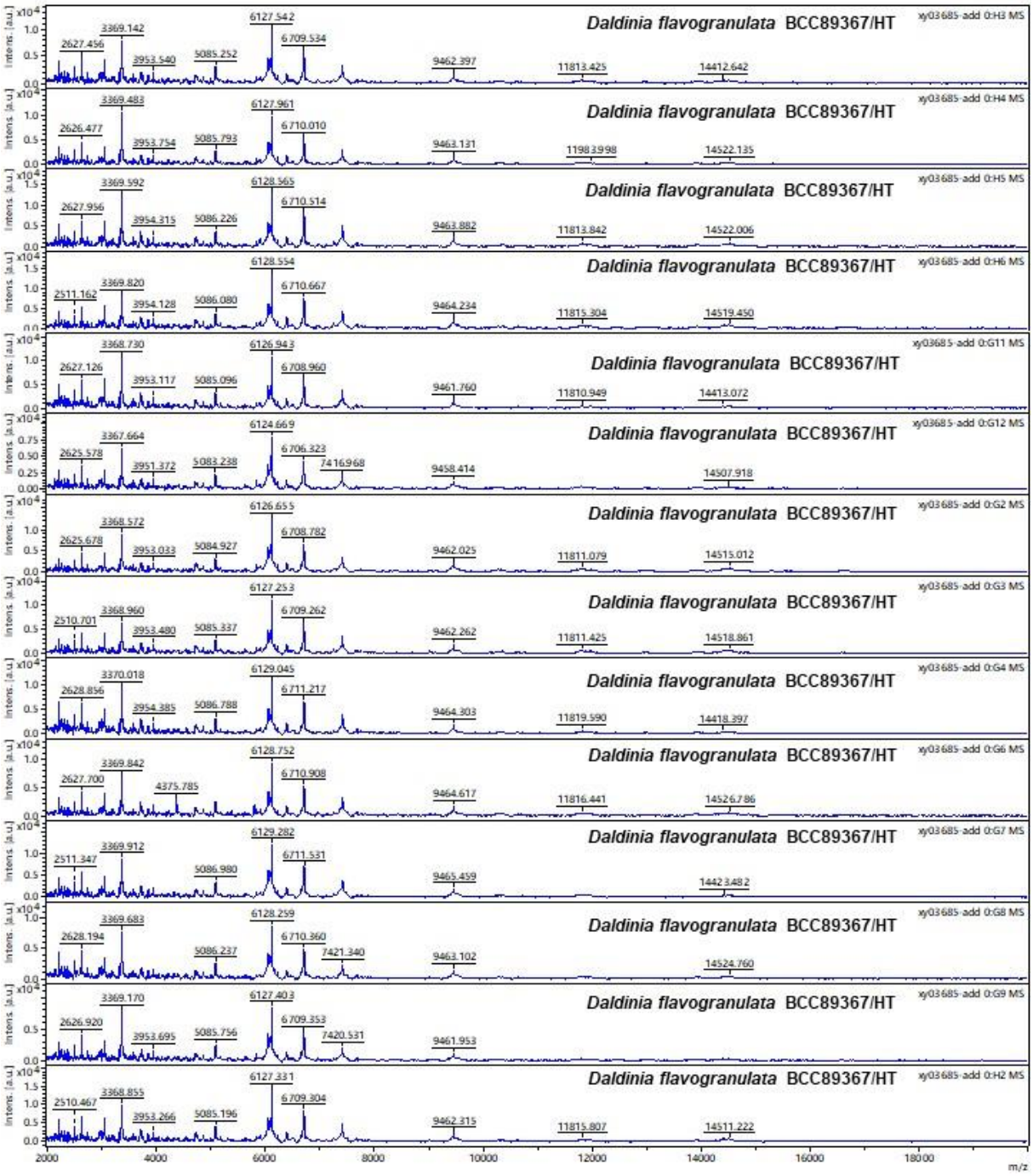
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3369.820
3954.128
5086.080
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2627.700
4375.785
6128.752
6710.908
9464.617
11816.441
14526.786
Daldinia flavogranulata BCC89367/HT
xy03685-add 0:G7 MS
2511.347
3369.912
5086.980
6129.282
6711.531
9465.459
14423.482
Daldinia flavogranulata BCC89367/HT
xy03685-add 0:G8 MS
3369.683
2628.194
5086.237
6128.259
6710.360
7421.340
9463.102
14524.760
Daldinia flavogranulata BCC89367/HT
xy03685-add 0:G9 MS
3369.170
2626.920
3953.695
5085.756
6127.403
6709.353
7420.531
9461.953
Daldinia flavogranulata BCC89367/HT
xy03685-add 0:H2 MS
2510.467
3368.855
3953.266
5085.196
6127.331
6709.304
9462.315
11815.807
14511.222
Intens. [a.u.]
x10^4
2000
4000
6000
8000
10000
12000
14000
16000
18000
m/z

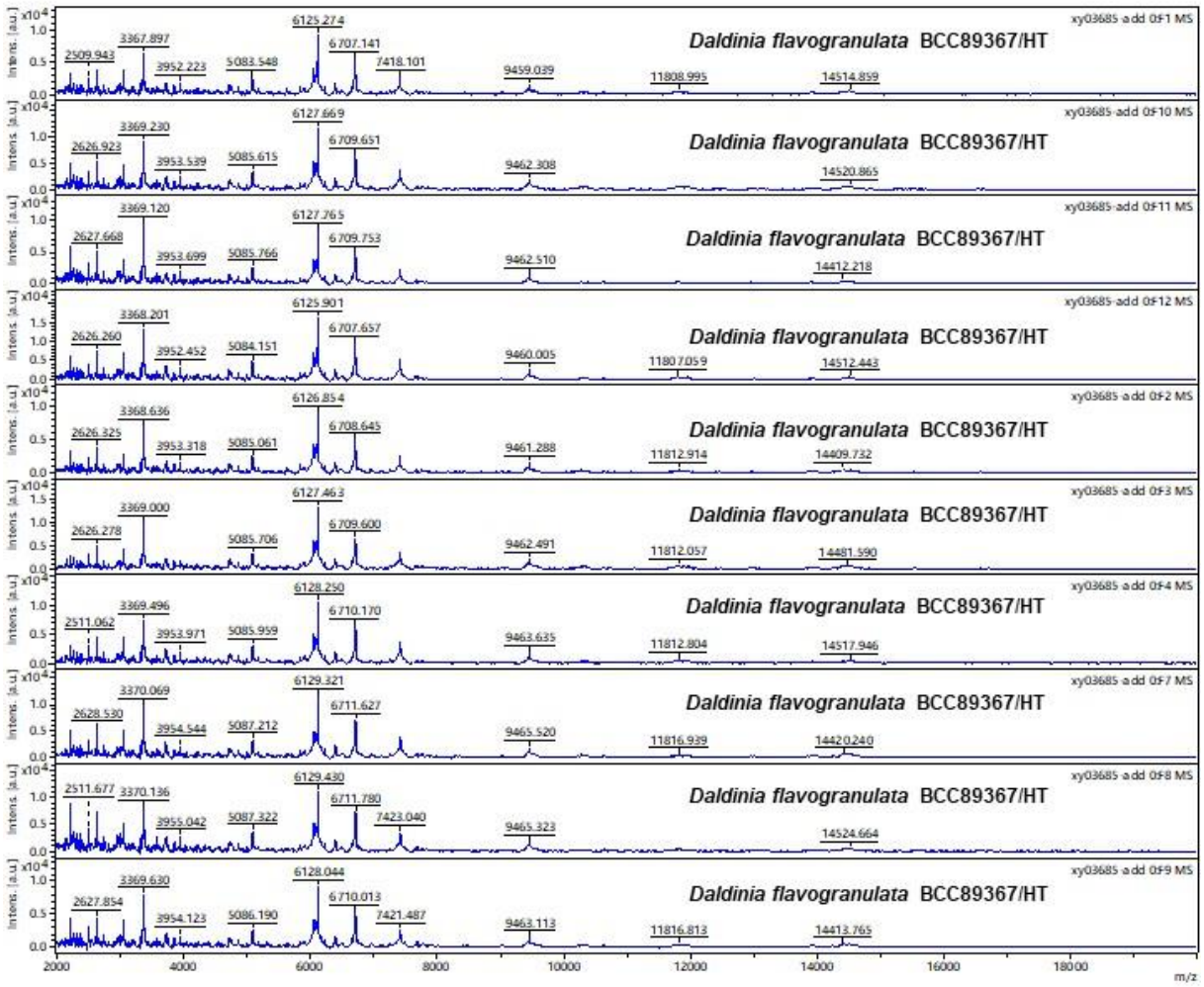

Figure S6. MALDI-TOF MASS SPECTRA.

Table S1. Comparison of morphological and chemotaxonomic features of Hypoxylaceae species with massive stroma and long tubular perithecia.

Taxon	Ostioles	Perispore	Germ Slite	Ascospore size (μm)	KOH-extractable pigments	Metabolites (stroma)
Hypoxylon begae	umbilicate	dehiscent	short, dorsal	21–29 × 12–14.5	Dense isabelline	BNT, napththols, and unknown metabolite
Daldinia placentiformis	umbilicate	dehiscent	spore length, dorsal	14.5–16 × 6.5–7	Olivaceous	BNT, napththols, naphthoquinones
D. kreztschmarioides	umbilicate	dehiscent	spore length, dorsal	(4) 5–6 × 13–15(16)	Dark Vinaceous	BNT, Cytochalasan
Pyrenopolyporus laminosus	umbilicate	**indehiscent**	spore length, dorsal	11–13.5 × 4.2–4.5	Dilute purple	BNT, napththols, naphthoquinones
P. hunteri	umbilicate	**indehiscent**	less than spore length, dorsal	11.5–14 × 5–5.5	Dense purple or absent	BNT, napththols, naphthoquinones
P. nicaraguensis	papillate	**indehiscent**	spore length, dorsal	(11–)12–15(–16) × 5–6.5	Dilute purple or absent	BNT, napththols, naphthoquinones
P. tortisporus	umbilicate	**indehiscent**	spore length, dorsal	9.5–14(–16) × 4–6	Dense amber or Olivaceous	BNT, napththols, naphthoquinones
P. sympyhon	papillate	**indehiscent**	spore length, dorsal	9.5–12(–13) × 4–5	Purple or absent	BNT, napththols, naphthoquinones, daldinal A, daldinal C
P. laminosus (this study)	umbilicate	**indehiscent**	spore length, dorsal	(12–)13–14(–15) × 4–5	Dense purple	BNT, hypoxylones
P. bambusicola (this study)	umbilicate	**indehiscent**	spore length, dorsal	8–10(–11) × (3–) 4–5	Dense purple	BNT, hypoxylones
P. macrosporus (this study)	inconspicuous	**indehiscent**	spore length, dorsal	(14–) 16–17 × (6–)7–8	Dense purple	BNT, hypoxylones
P. papillatus (this study)	papillate	**indehiscent**	spore length, dorsal	(11–) 12–13(–14) × 4–5	Dense purple	BNT, hypoxylones
P. tonngachangensi (this study)	umbilicate	**indehiscent**	2/3 spore length, dorsal	(12–) 13–14(–16) × 4–5	Dense purple	BNT, hypoxylones
P. cinereopigmentosus (this study)	inconspicuous	**indehiscent**	spore length, dorsal	(12–) 13–14 (–15) × 6–7	Grey	BNT, hypoxylones

Table S2. Dereplicated metabolites from the stromatal extracts of the *Pyrenopolyporus* spp. and in-house standards.

Compound	*m/z*	rt	CCS	Formula	Annotation*
Hypoxylone (**1**)	333.07588 $[M+H]^+$	13.42	169.2	$C_{20}H_{12}O_5$	Level 2
BNT (**2**)	319.09643 $[M+H]^+$	12.28	172.6	$C_{20}H_{14}O_4$	Level 1
3	349.07041 $[M+H]^+$	11.38	175.1	$C_{20}H_{12}O_6$	Level 2
4	258.10997 $[M+Na]^+$	8.92	159.3	$C_{13}H_{17}NO_3$	n.i.
5	633.45371 $[M+H]^+$	18.59	251.9	$C_{30}H_{60}N_6O_8$	n.i.

*Level 0 corresponds to data obtained from in-house standards; level 1 to annotations by comparison with standards; level 2 to putative annotations (i.e., MS/MS library search); level 3 to a compound class assignment; n.i. to non-identified metabolites. rt = retention time in min; CCS = collisional cross section in $Å^2$.

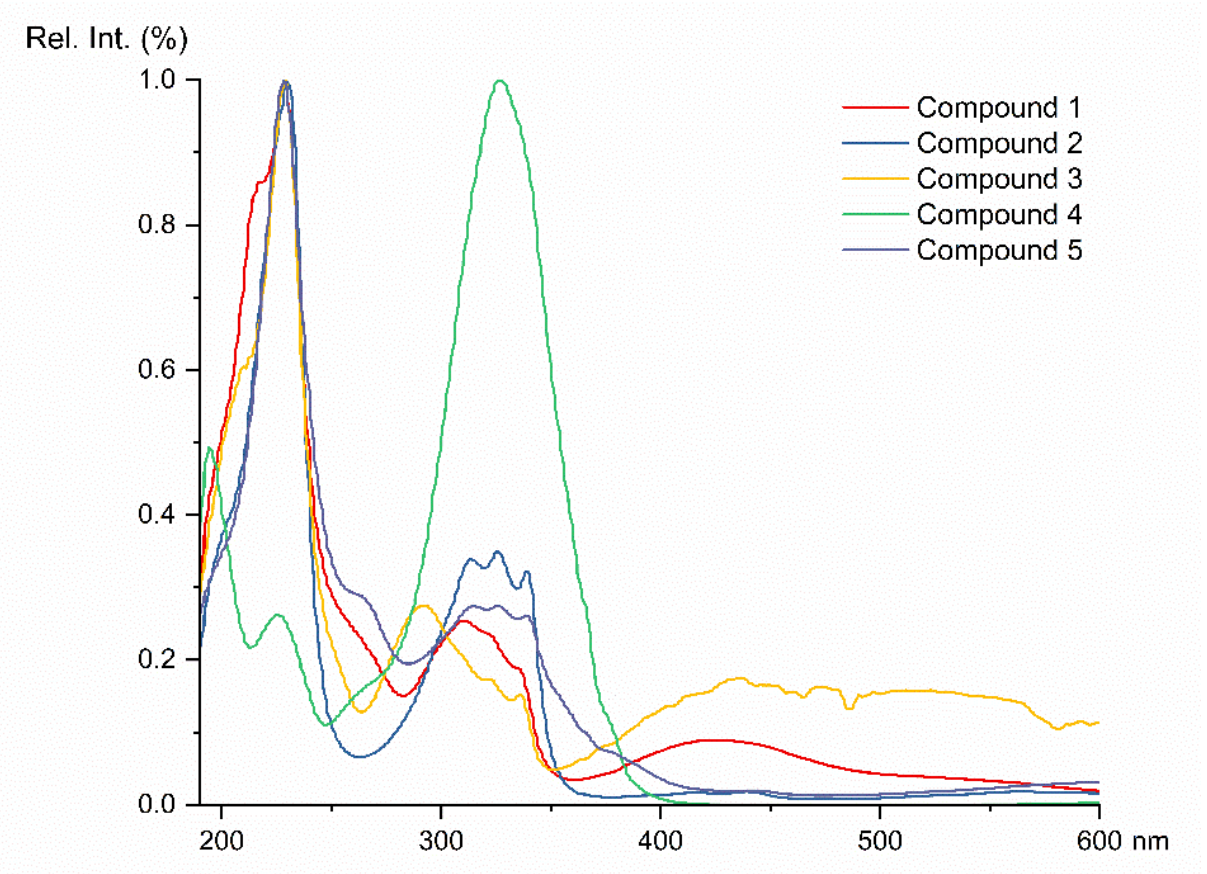

Figure S7. DAD spectra of the major metabolites (**1**–**5**) depicted in the stromata of the evaluated *Pyrenopolyporus* spp.

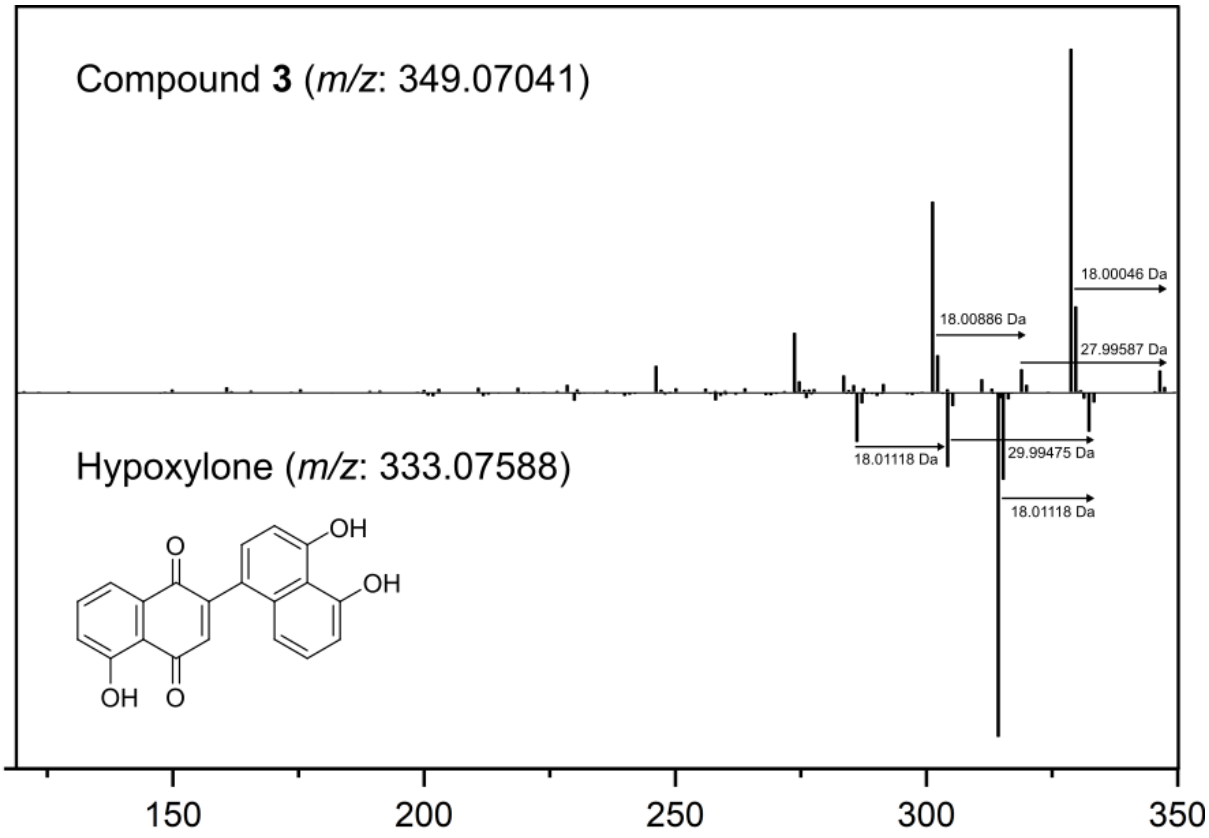

Figure S8. MS/MS spectra comparison between hypoxylone (**1**) and compound **3**. The MS/MS similarity score between the two metabolites is < 500, but both spectra share analogous neutral losses for the major fragment ions.