

# PCA

28 août, 2021

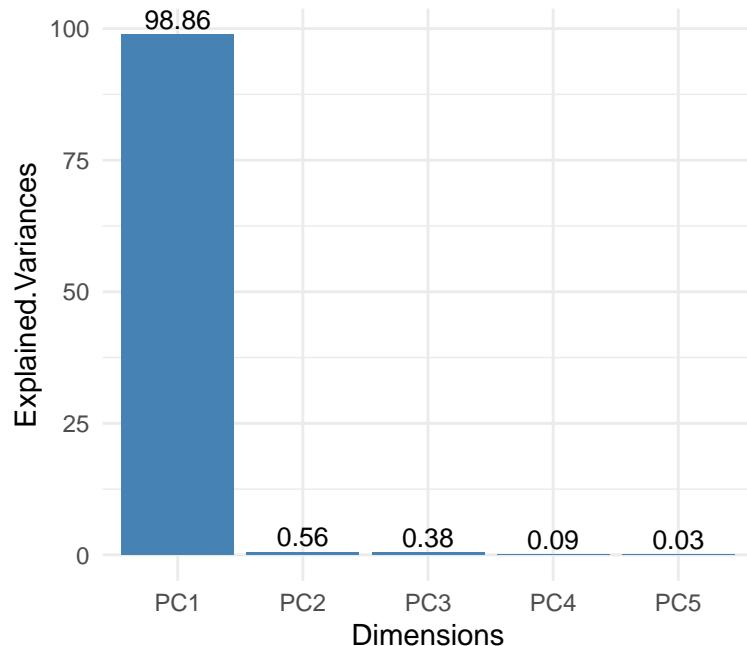
## Présentation du jeu de donnée

Il y a 420 acquisitions différentes pour cette analyse. Le détail du nombre de spectres de masse pour chaque acquisition est donné ci-dessus :

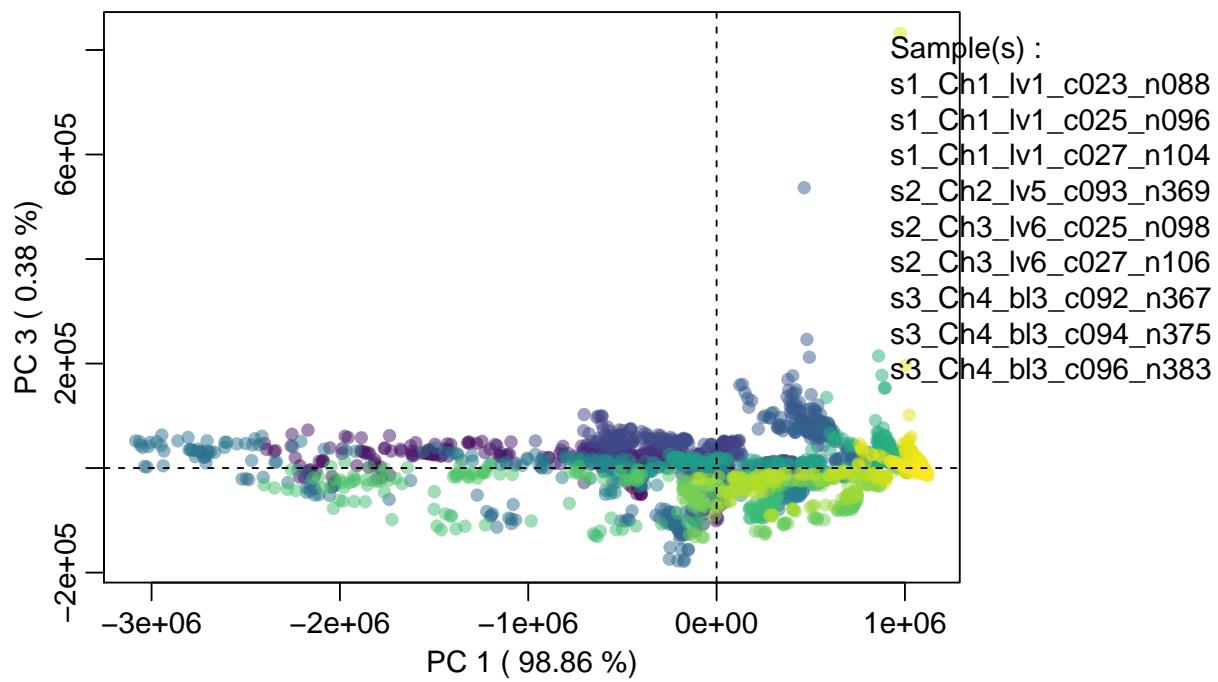
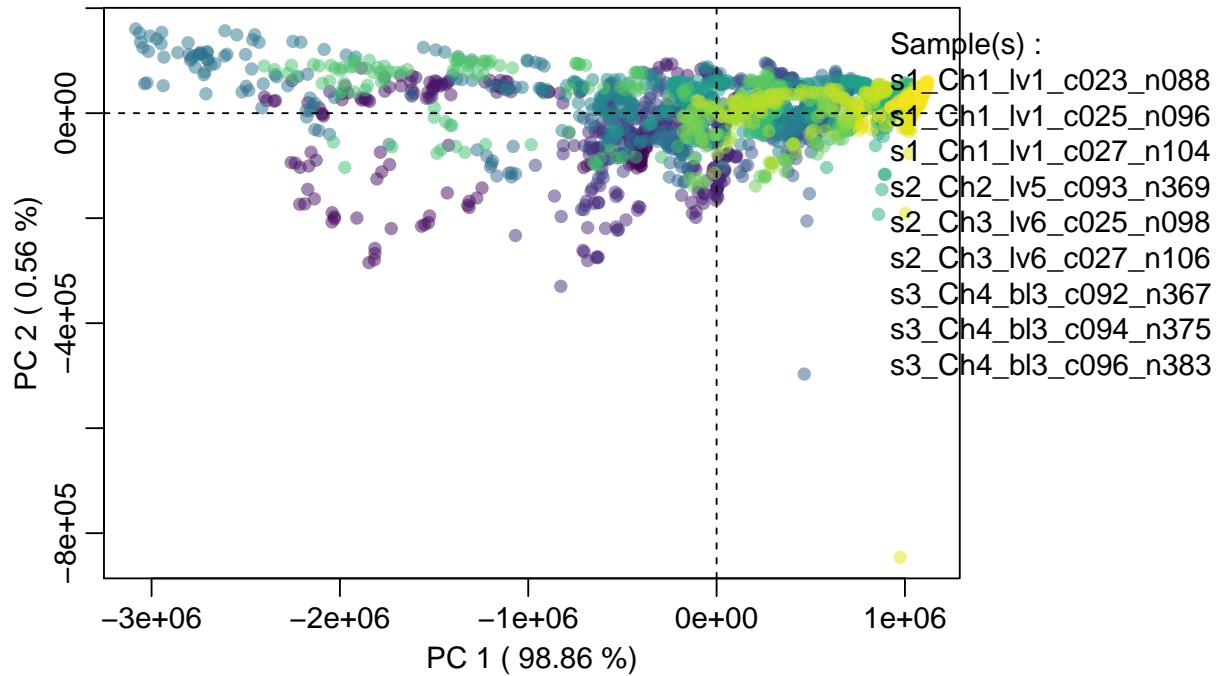
Nom de l'acquisition	Nbr de MS
s1_Ch1_lv1_c023_n088	5
s1_Ch1_lv1_c025_n096	5
s1_Ch1_lv1_c027_n104	5
s1_Ch1_lv1_c029_n112	5
s1_Ch1_lv1_c031_n120	5
s1_Ch1_lv1_c033_n128	5
s1_Ch1_lv1_c035_n136	5
s1_Ch1_lv1_c037_n144	5
s1_Ch1_lv1_c039_n152	5
s1_Ch1_lv1_c041_n160	5

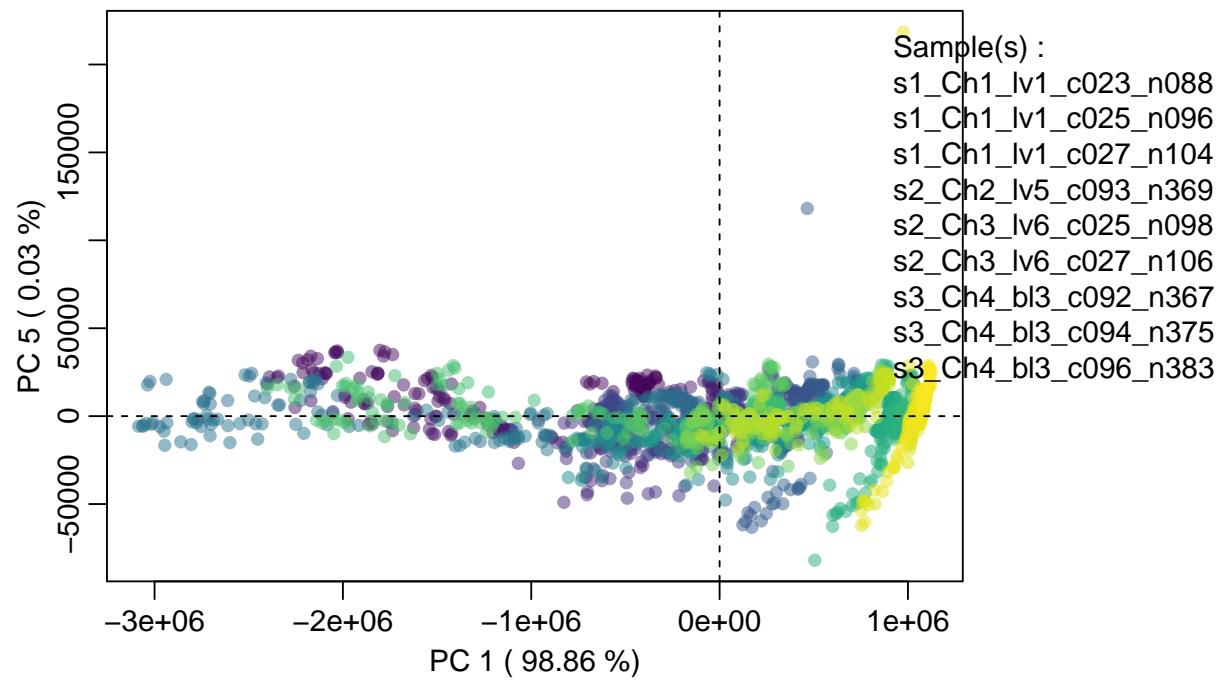
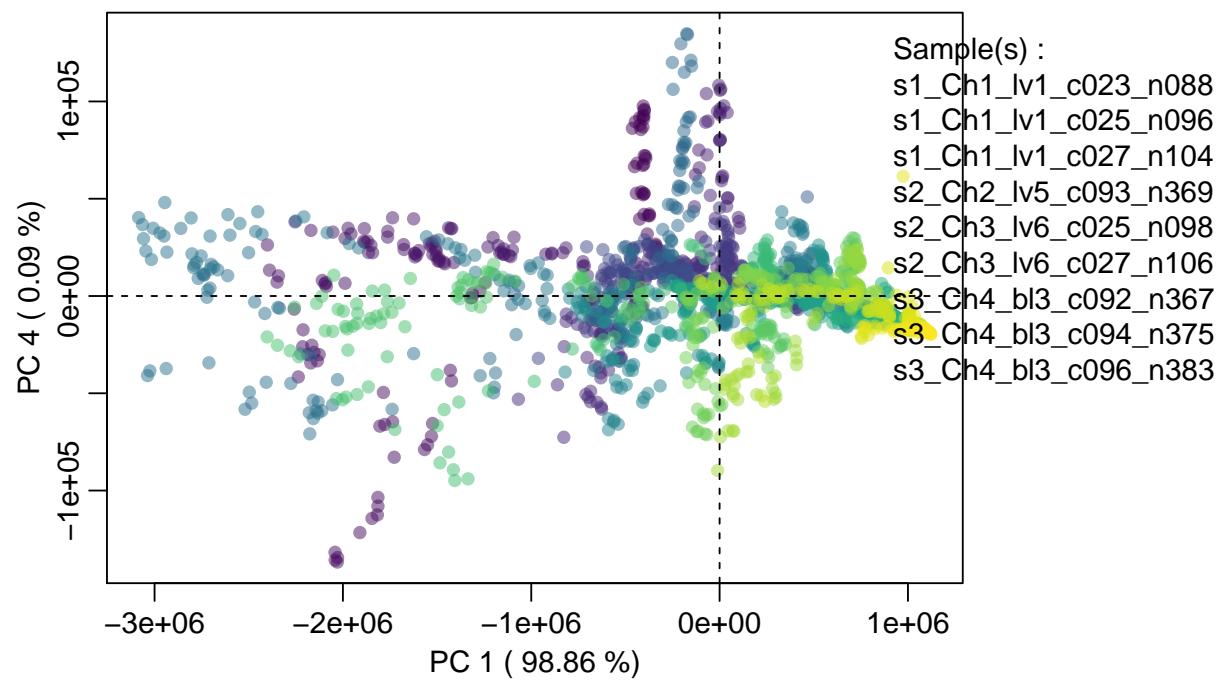
## Pourcentage de variance exprimée

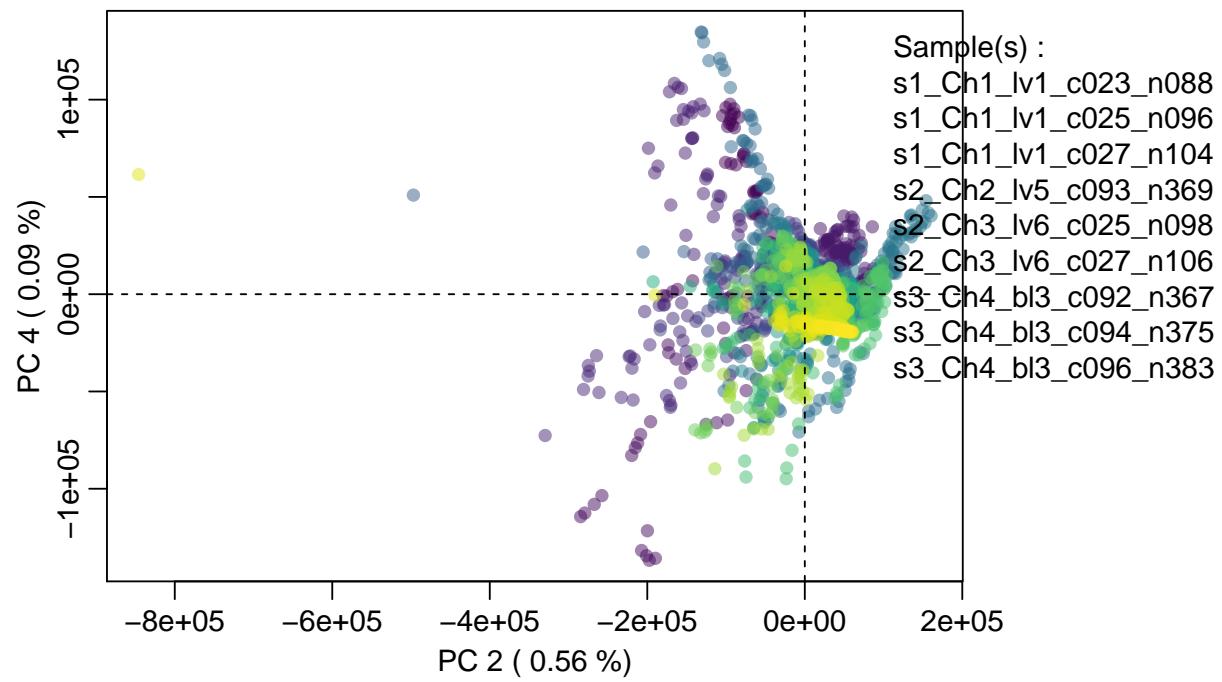
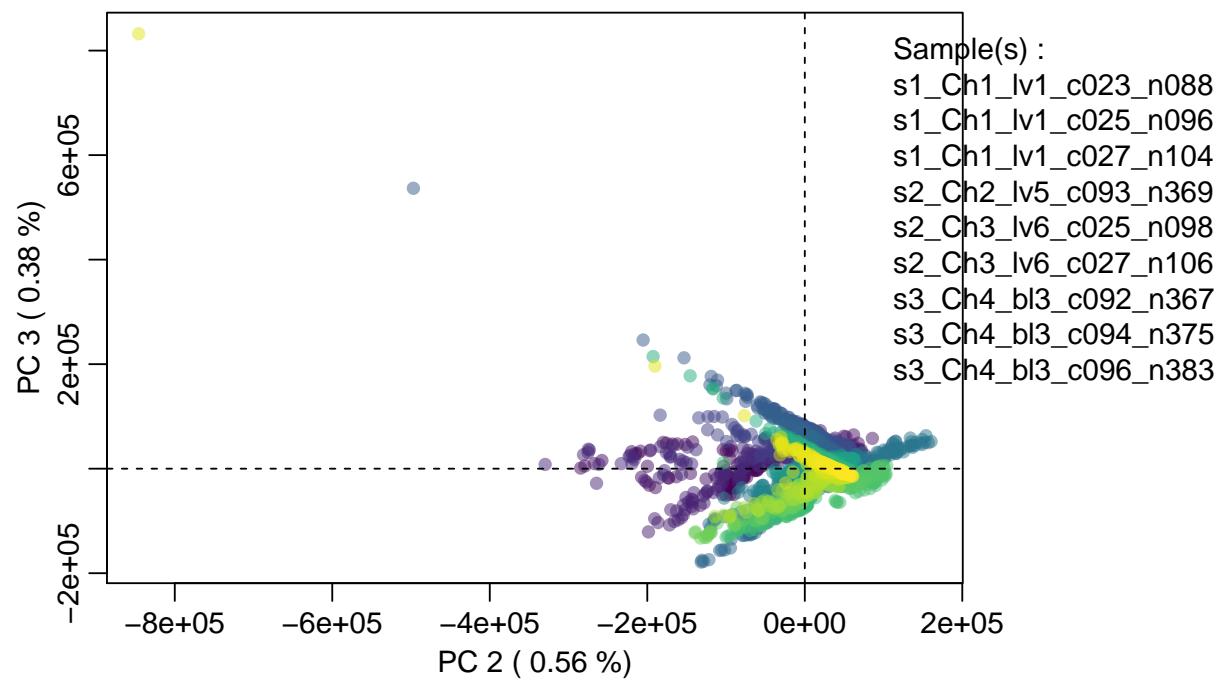
Il y a 5 composantes principales pour cette PCA.

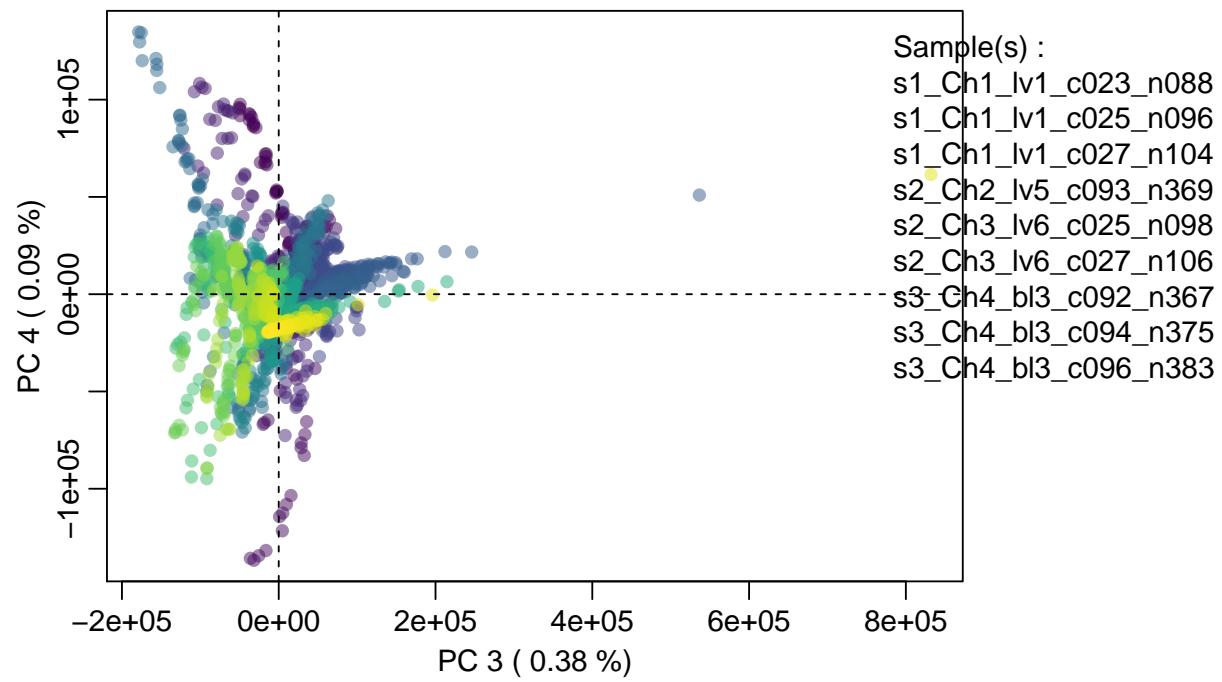
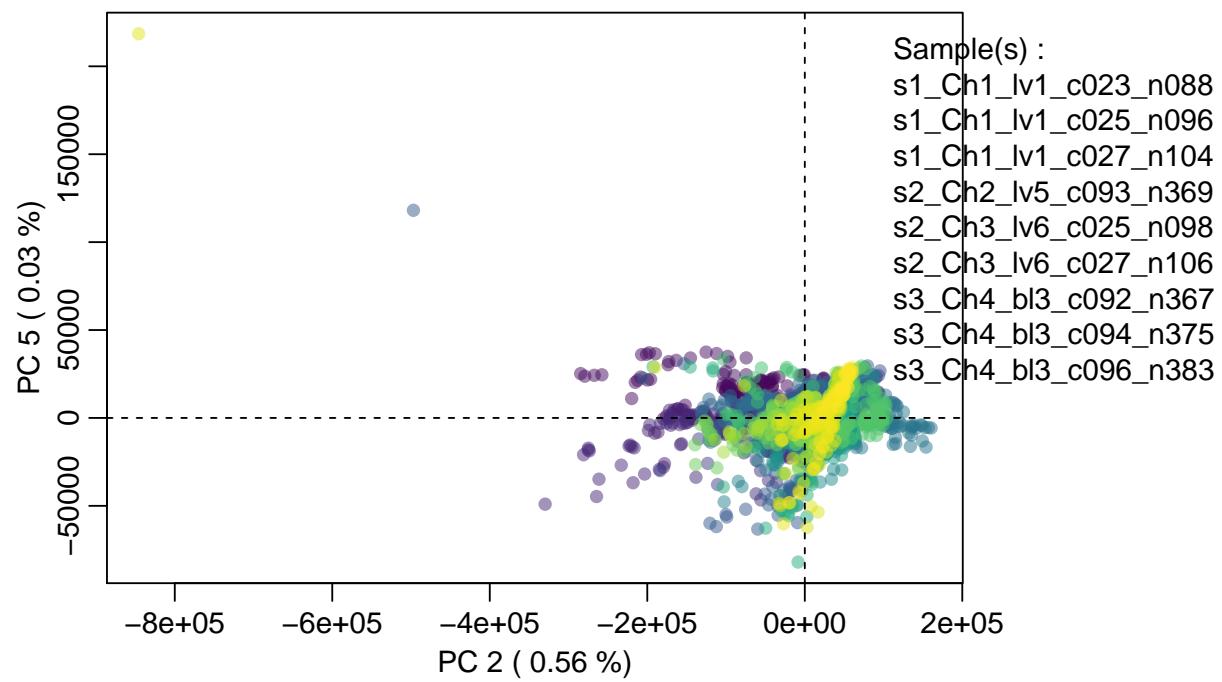


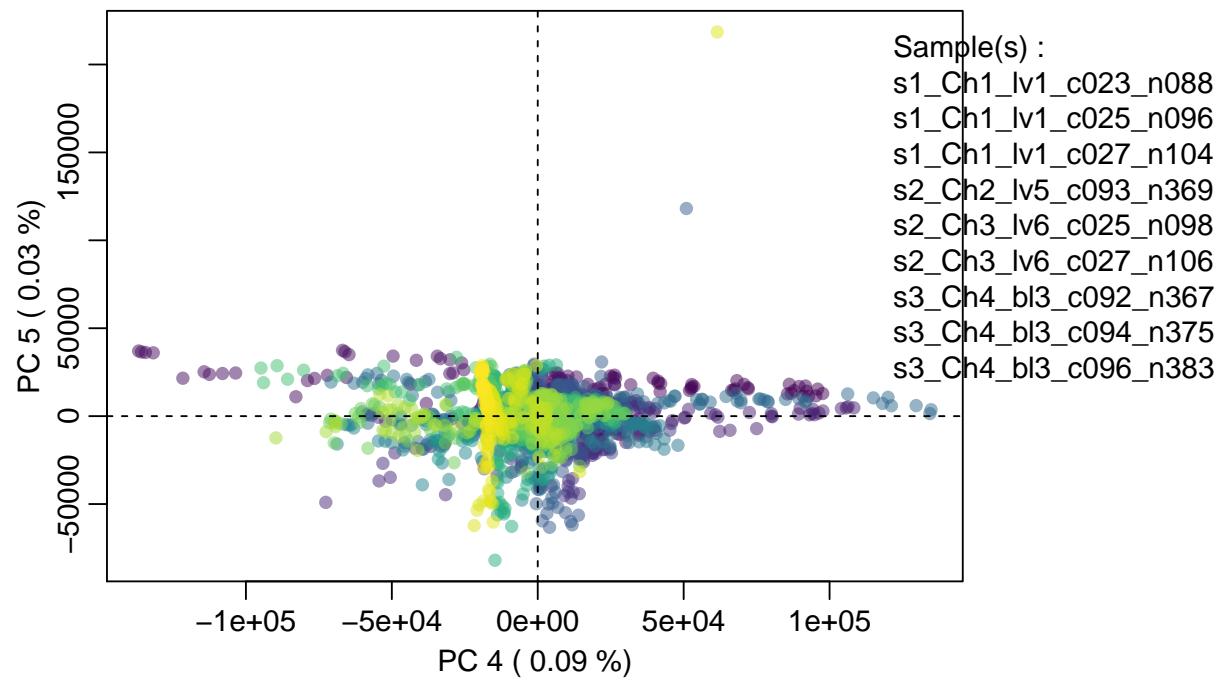
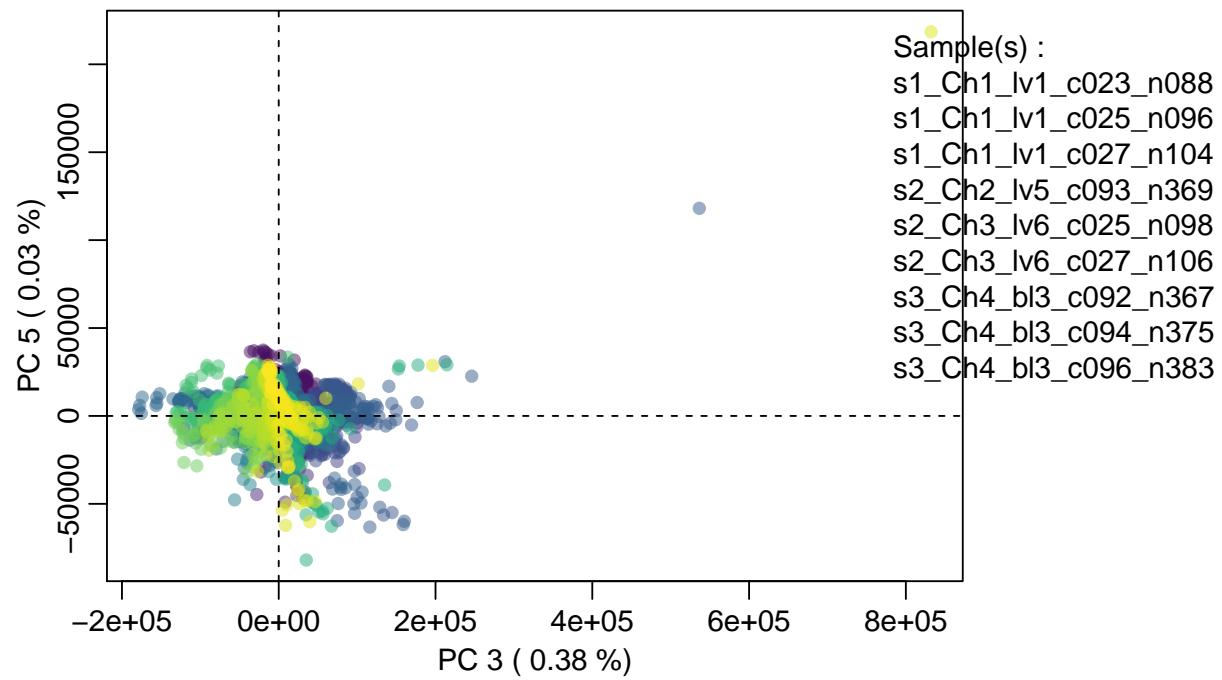
## Projection des scores sur PCa et PCb



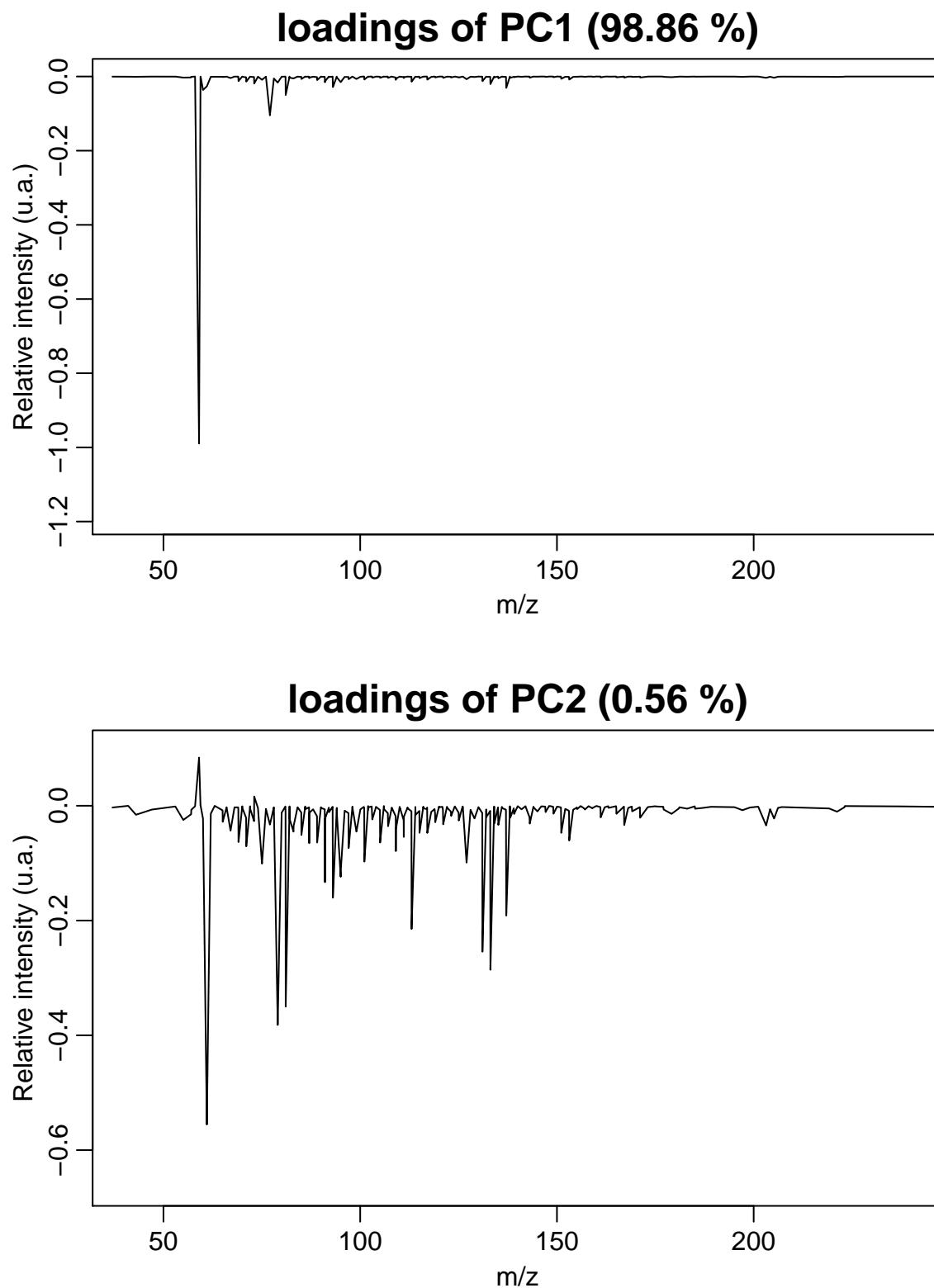




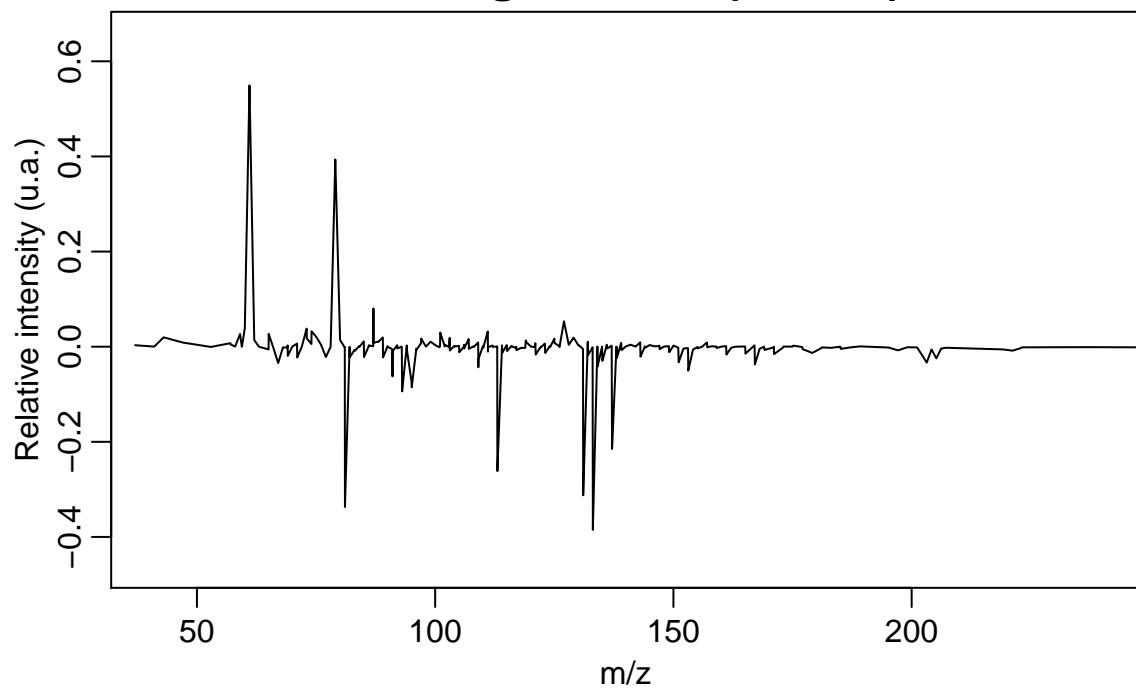




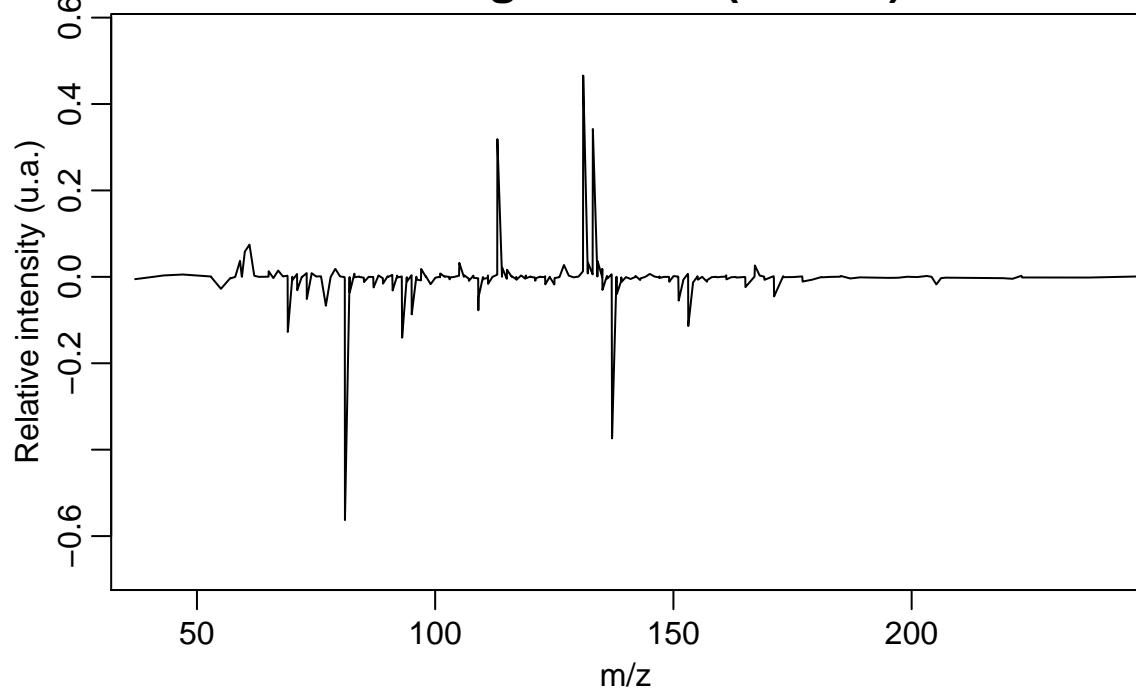
Loadings



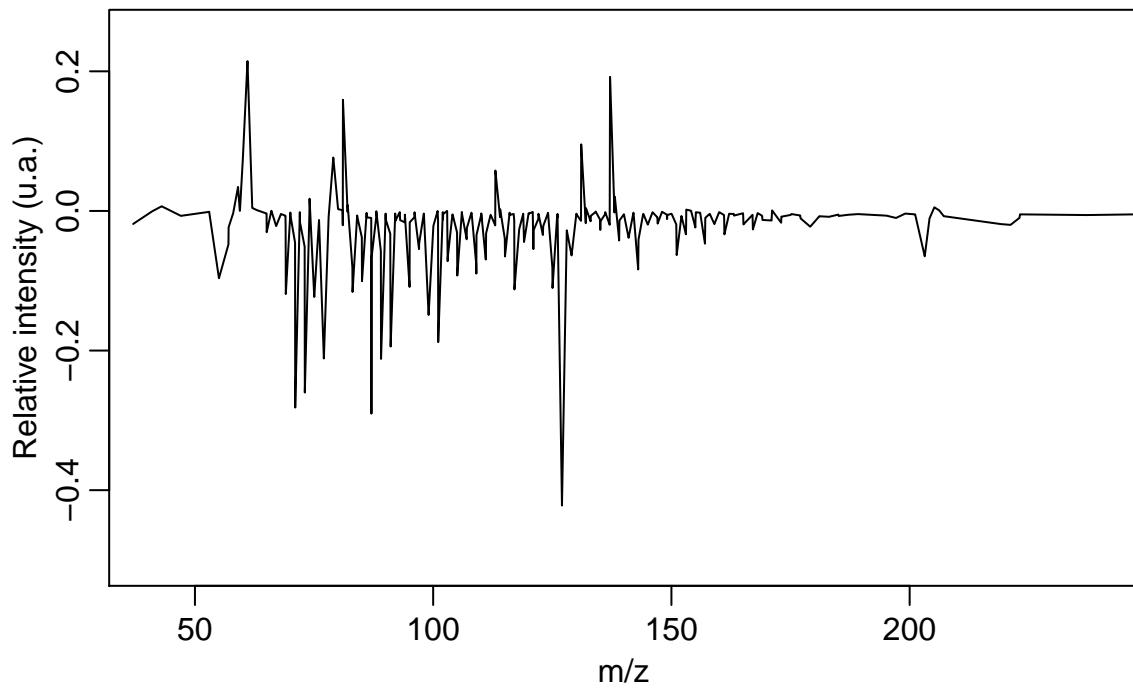
**loadings of PC3 (0.38 %)**



**loadings of PC4 (0.09 %)**

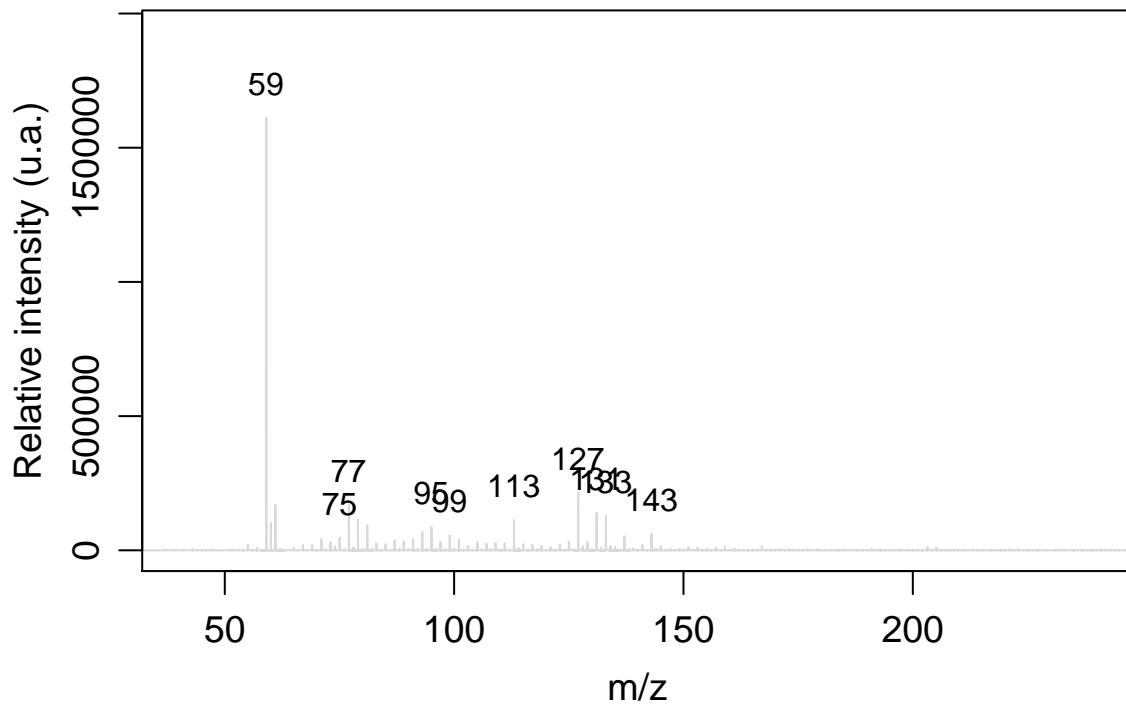


### **loadings of PC5 (0.03 %)**

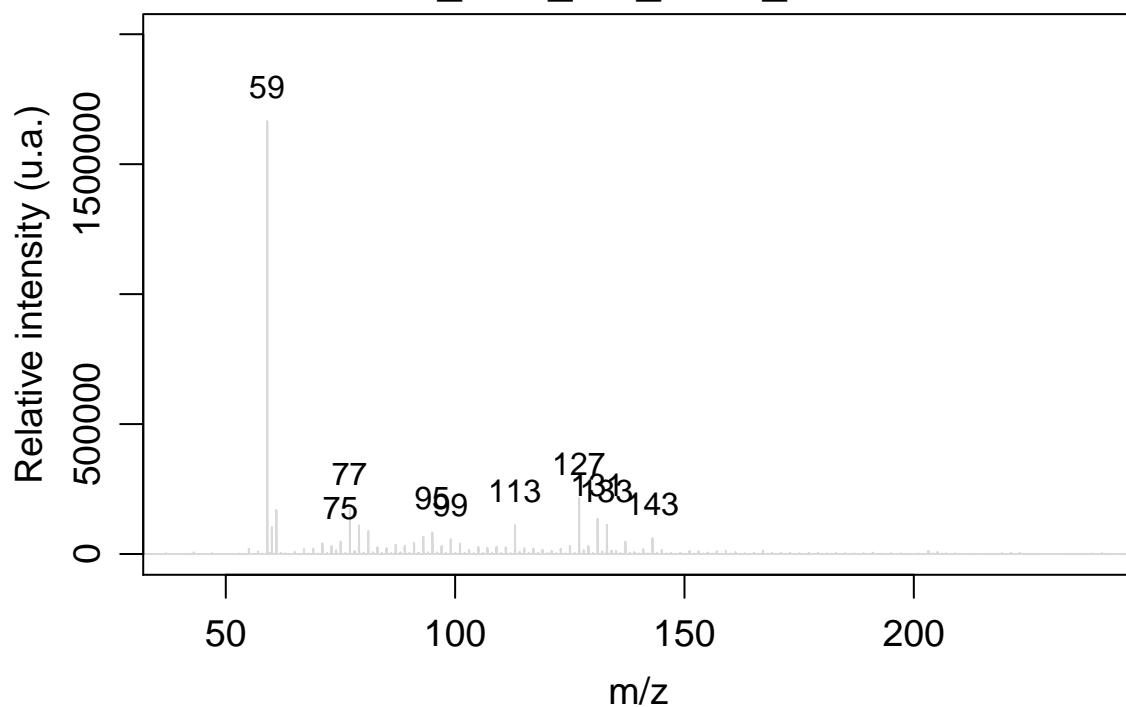


Spectres des produits pures

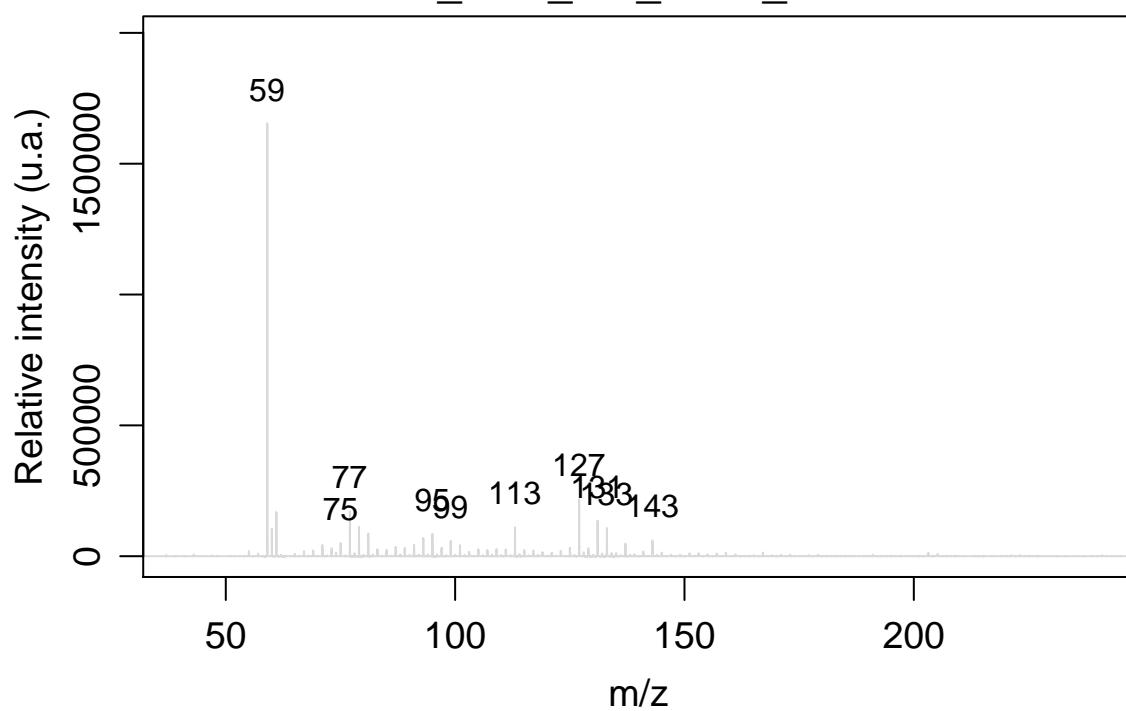
### **s1\_Ch1\_!v1\_c023\_n088**



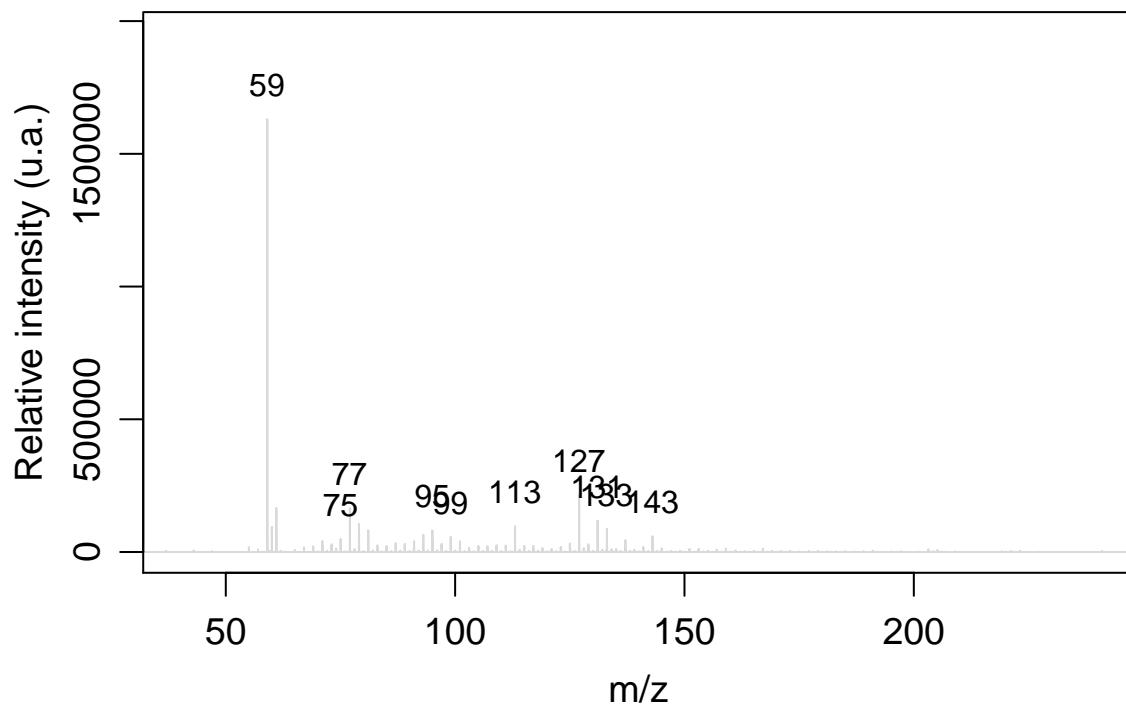
**s1\_Ch1\_1v1\_c025\_n096**



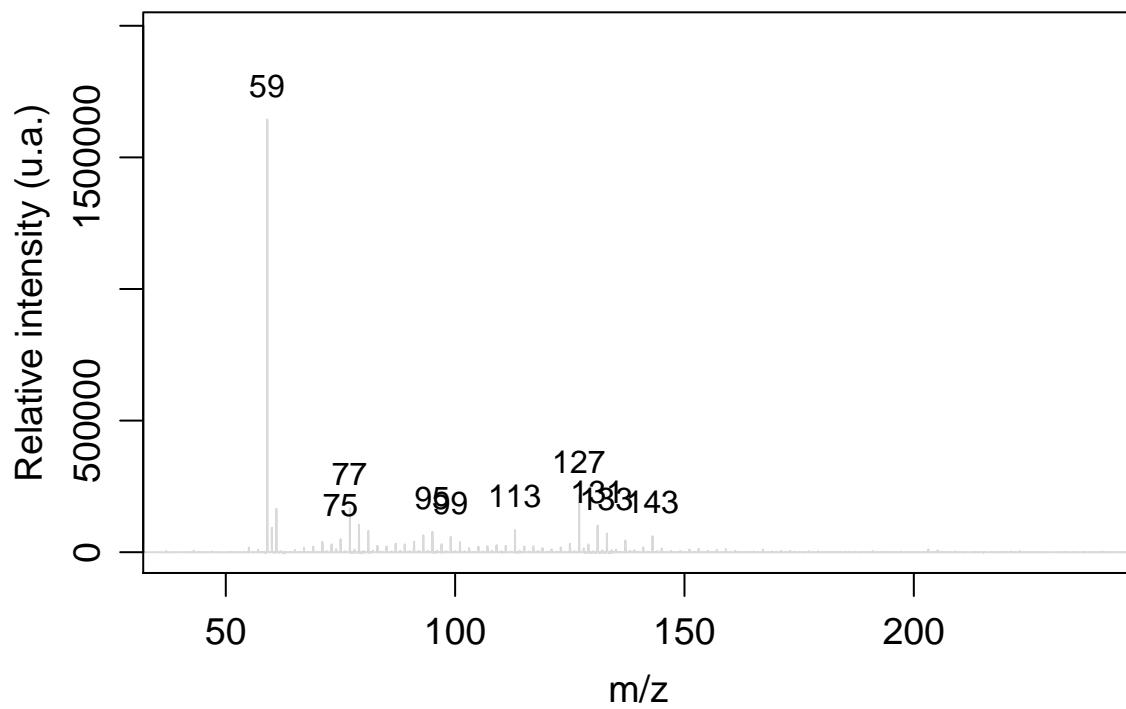
**s1\_Ch1\_1v1\_c027\_n104**



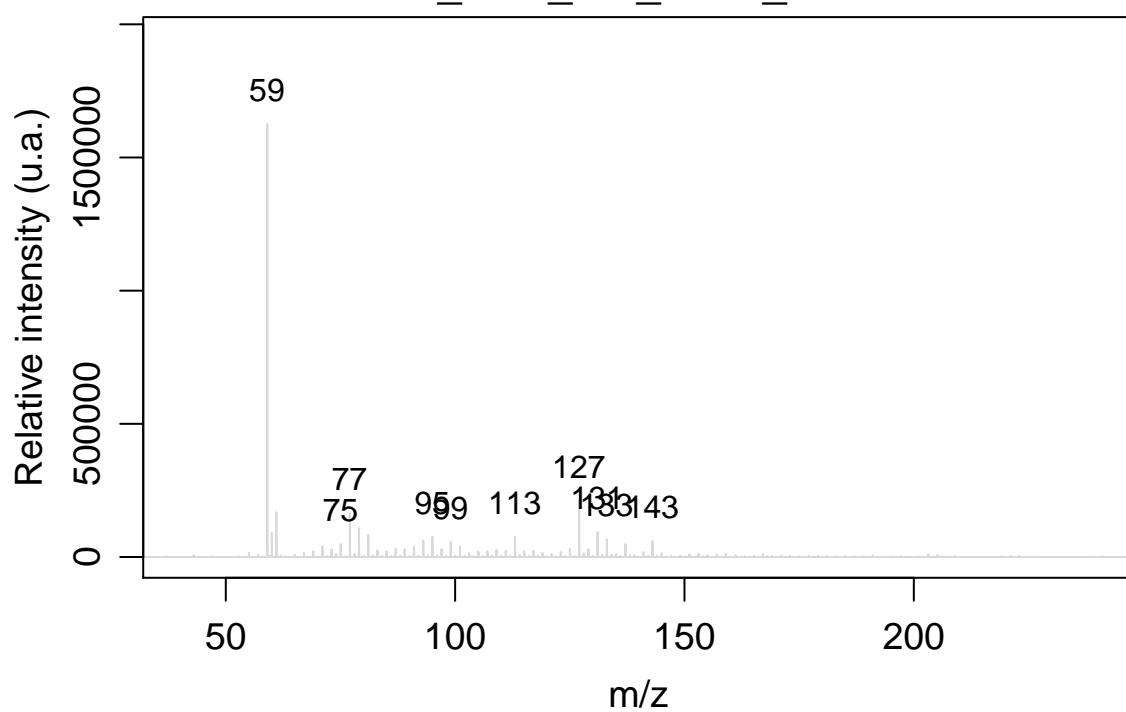
**s1\_Ch1\_1v1\_c029\_n112**



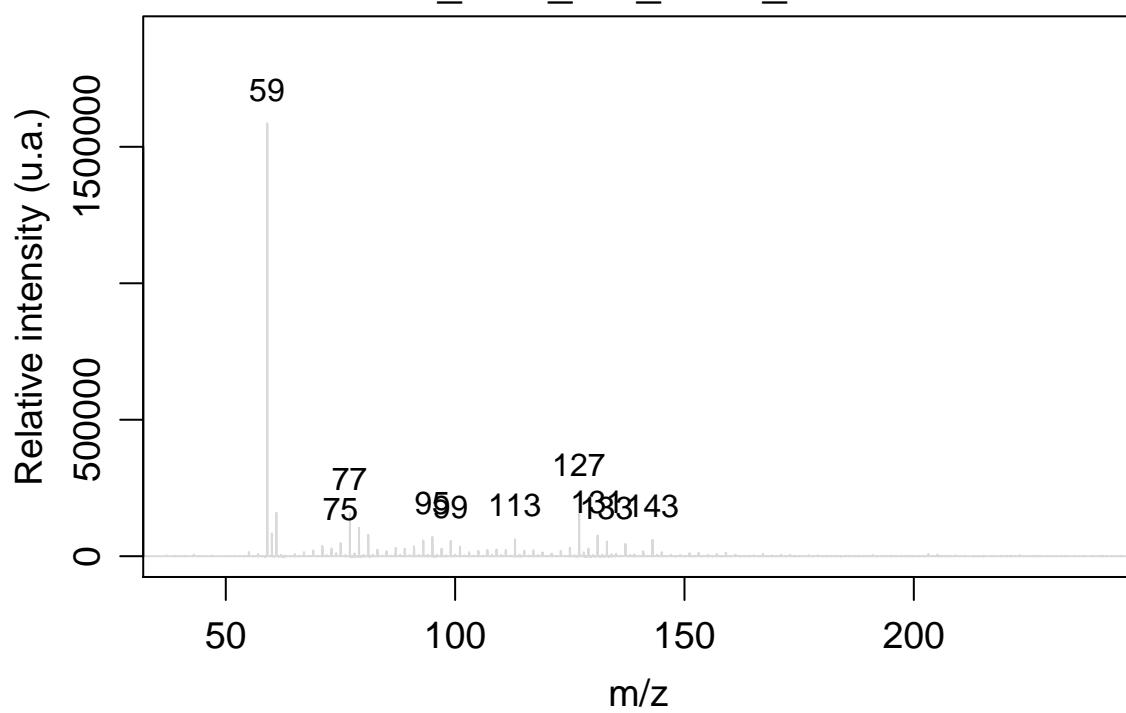
**s1\_Ch1\_1v1\_c031\_n120**



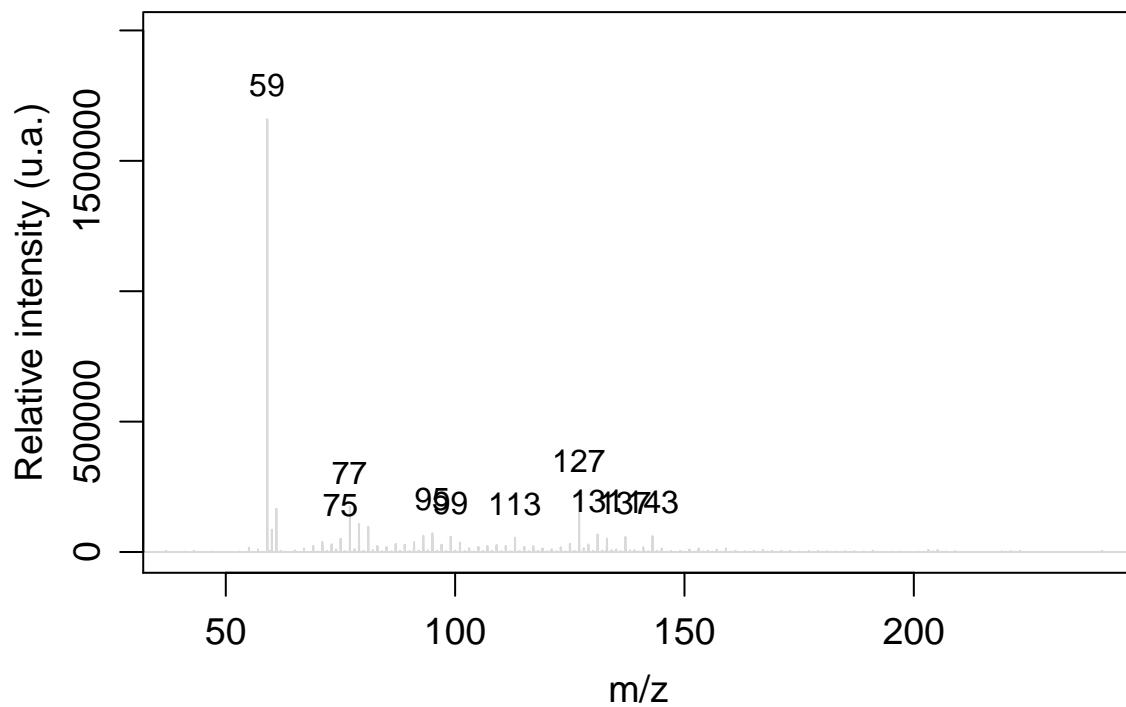
**s1\_Ch1\_!v1\_c033\_n128**



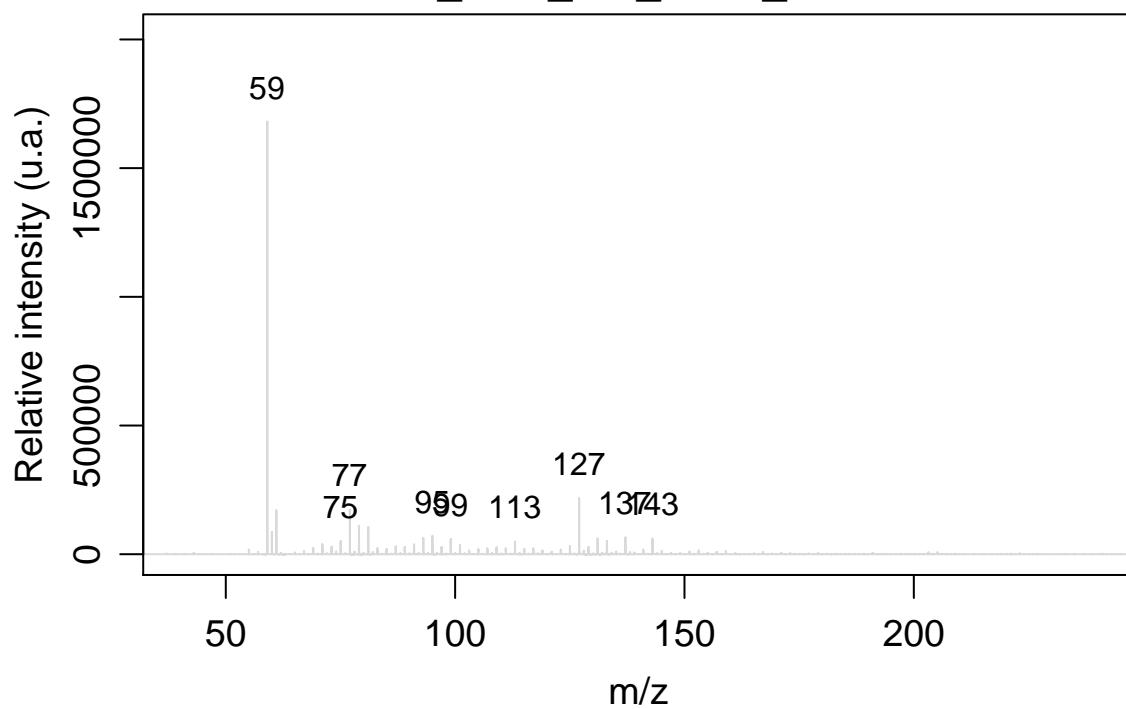
**s1\_Ch1\_!v1\_c035\_n136**



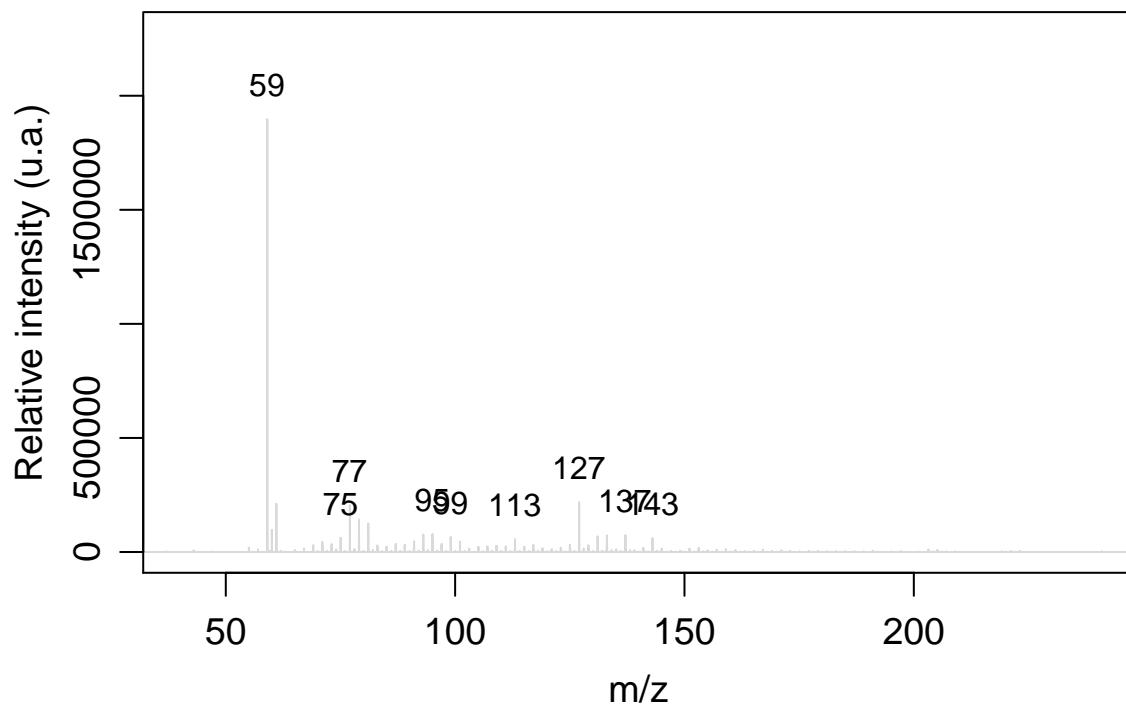
**s1\_Ch1\_1v1\_c037\_n144**



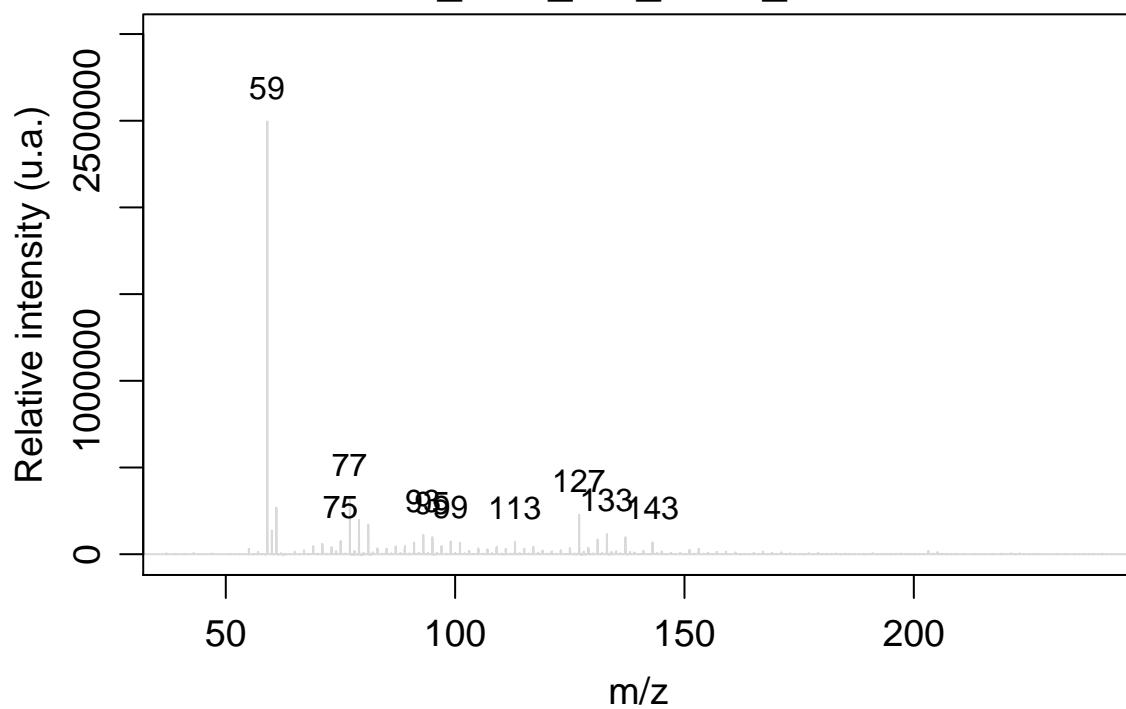
**s1\_Ch1\_1v1\_c039\_n152**



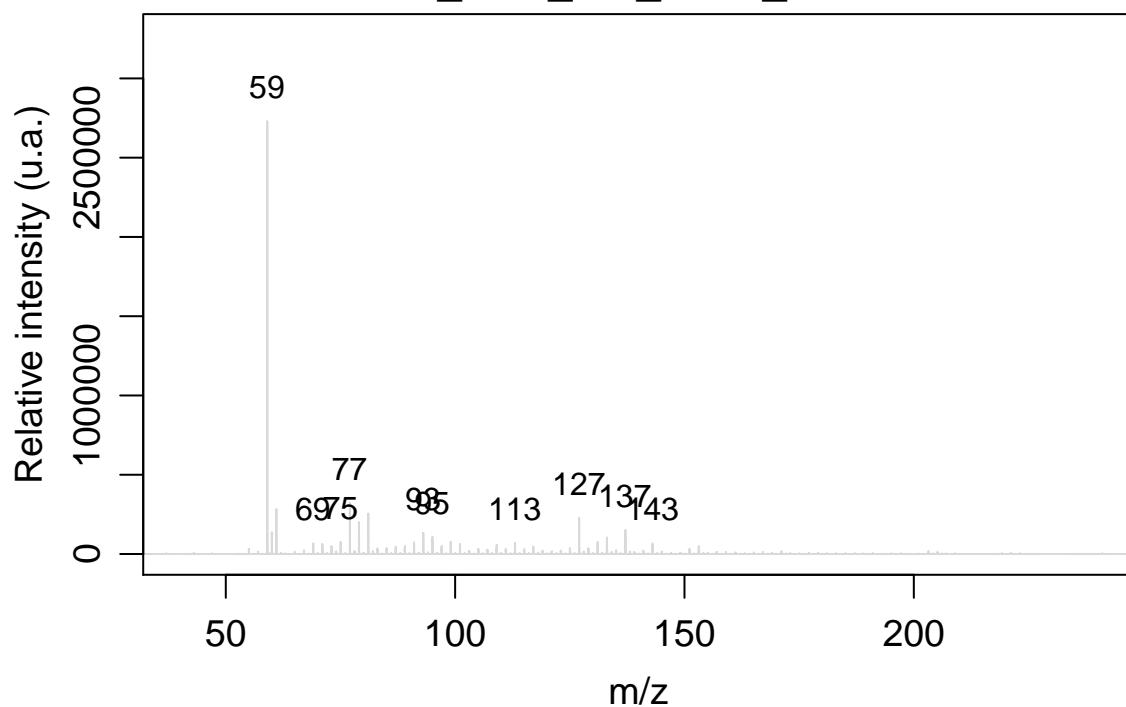
**s1\_Ch1\_1v1\_c041\_n160**



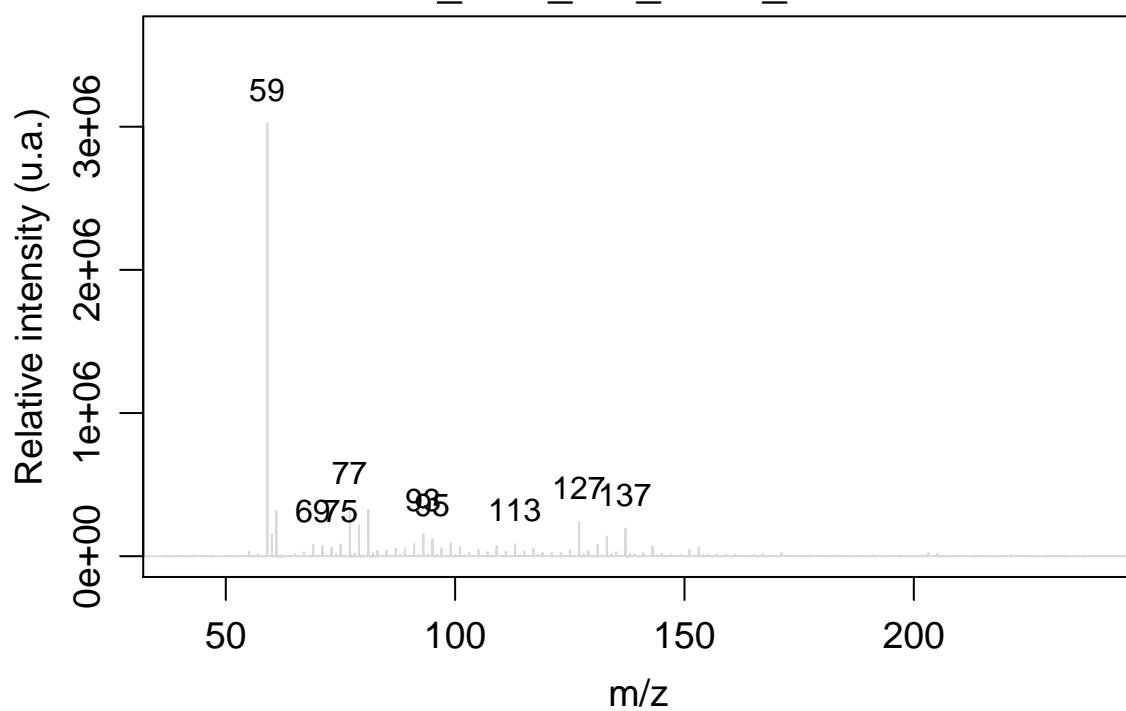
**s1\_Ch1\_1v1\_c043\_n168**



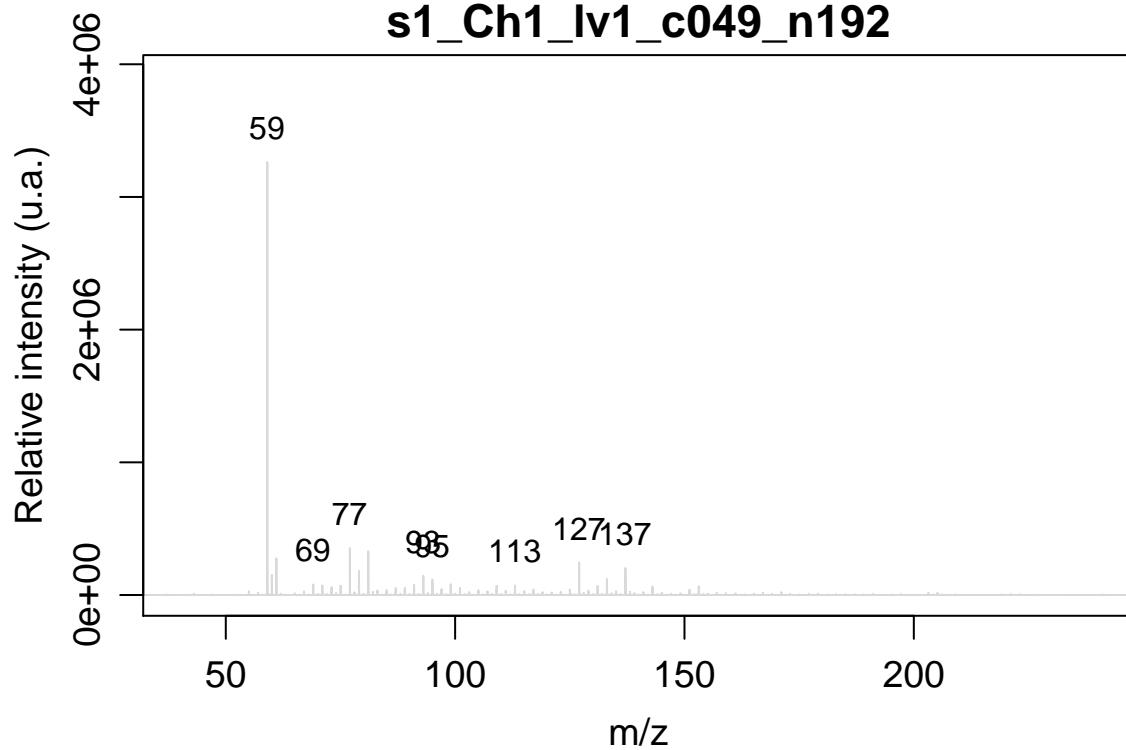
**s1\_Ch1\_1v1\_c045\_n176**



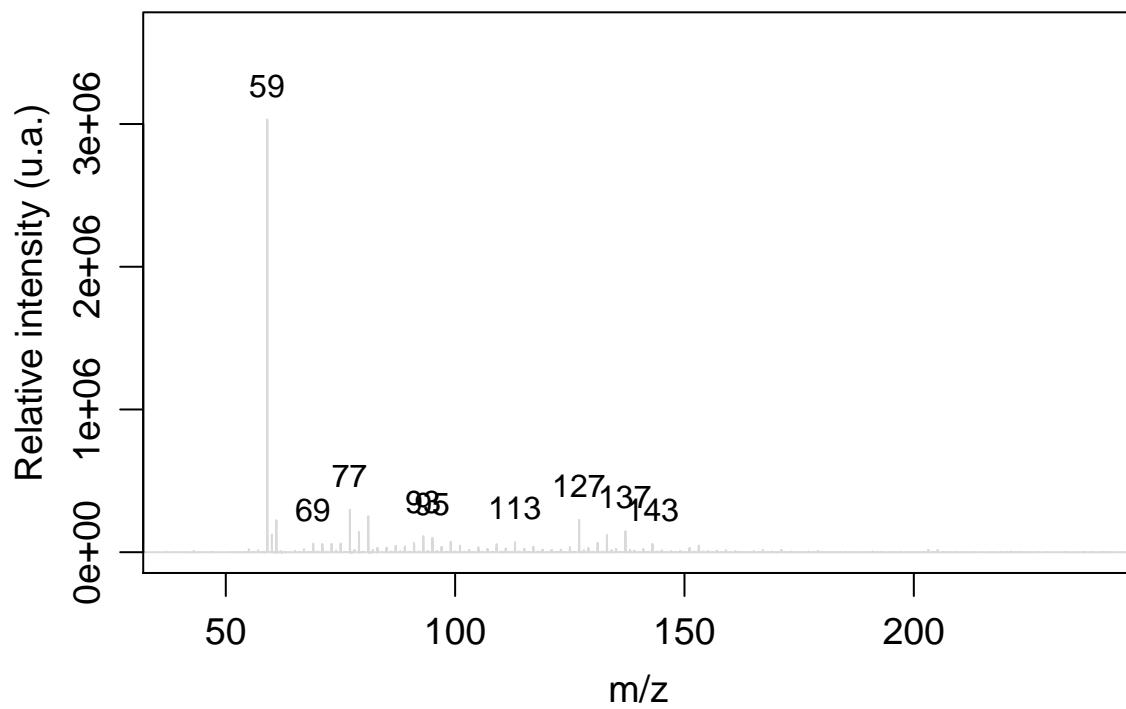
**s1\_Ch1\_1v1\_c047\_n184**



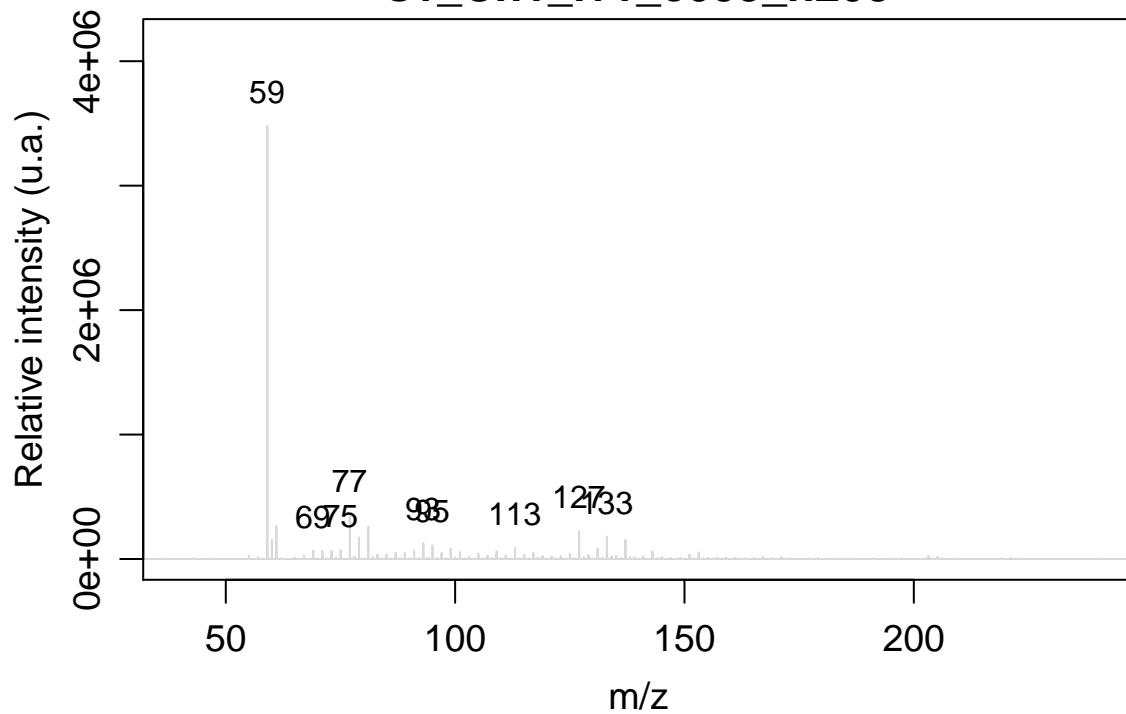
**s1\_Ch1\_!v1\_c049\_n192**



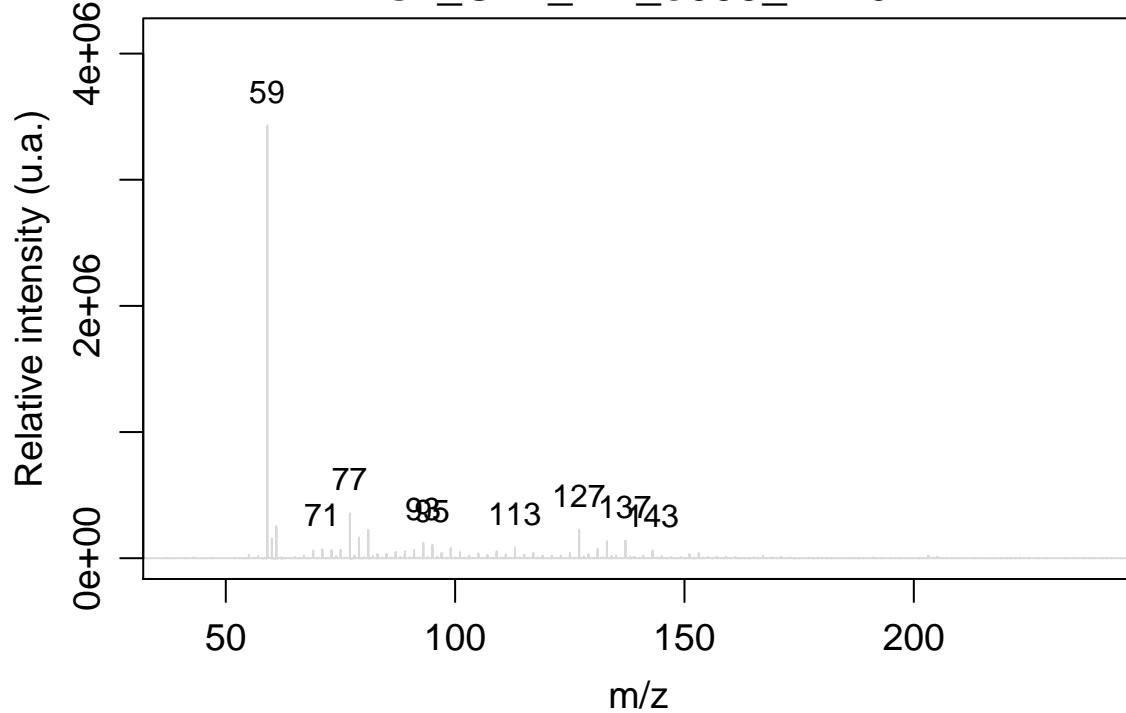
**s1\_Ch1\_!v1\_c051\_n200**



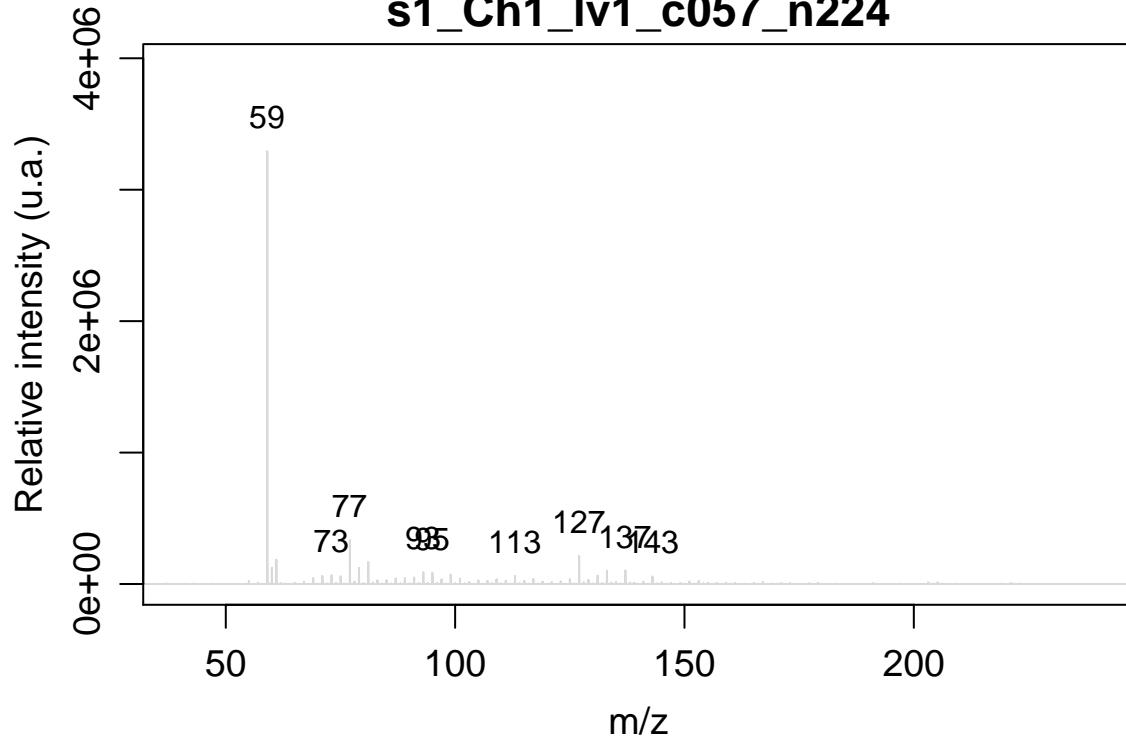
**s1\_Ch1\_!v1\_c053\_n208**



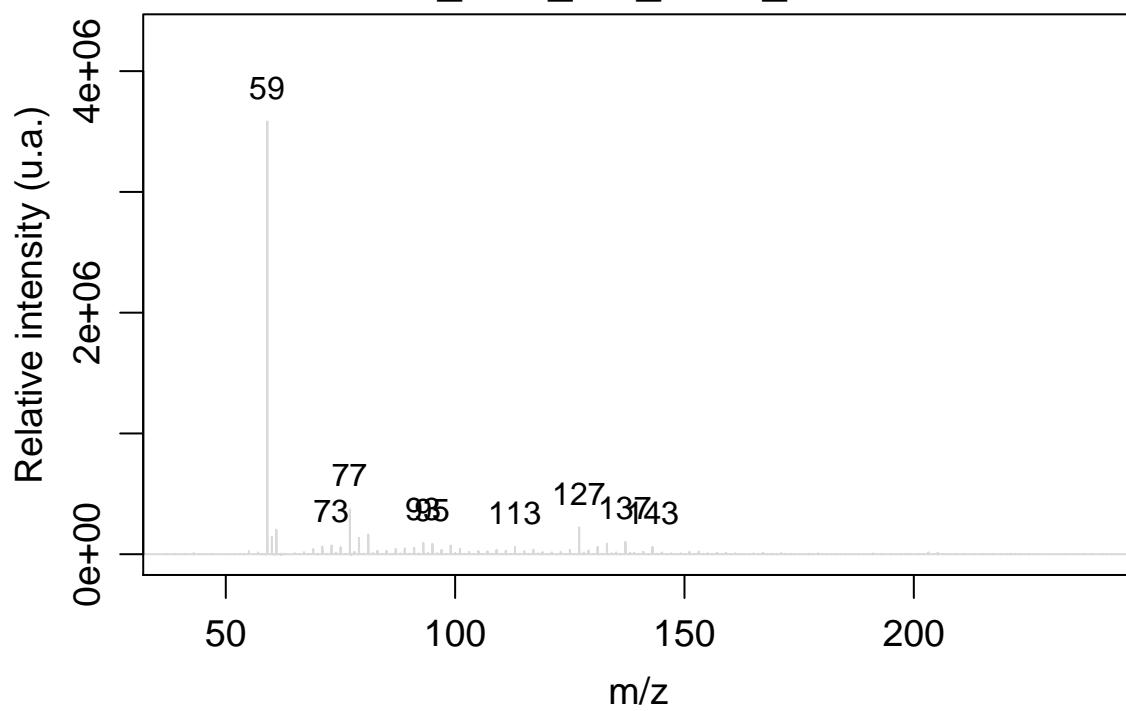
**s1\_Ch1\_!v1\_c055\_n216**

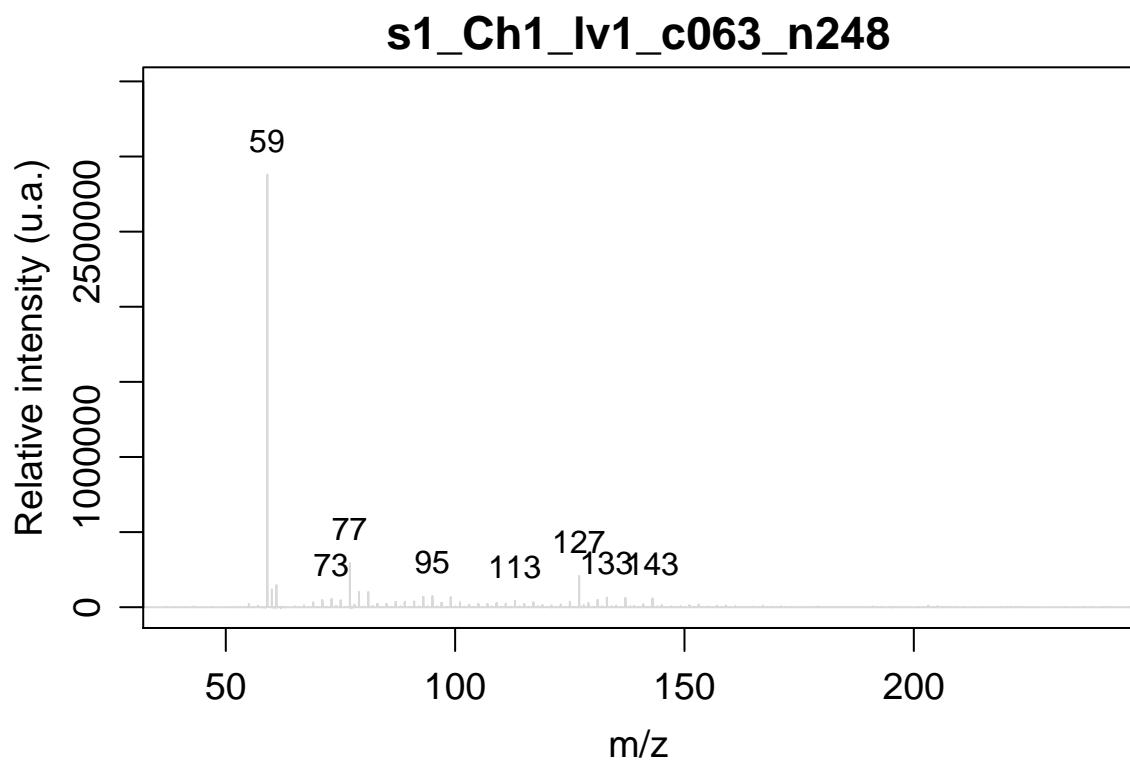
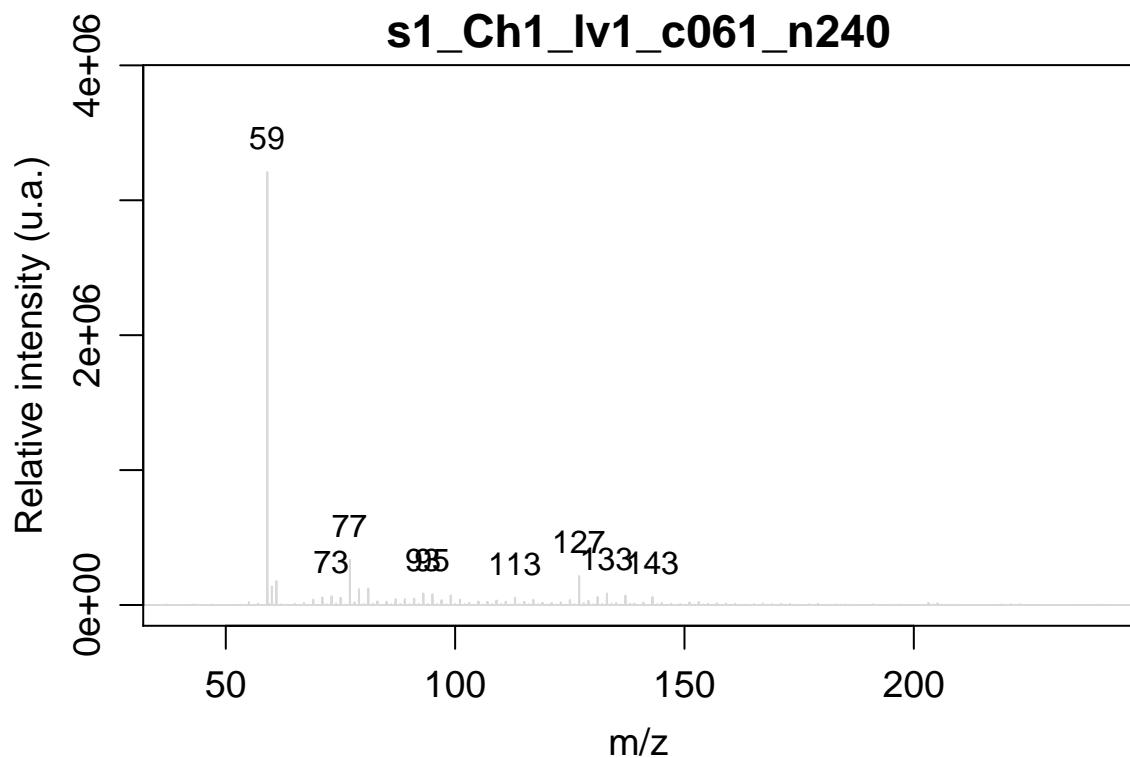


**s1\_Ch1\_1v1\_c057\_n224**

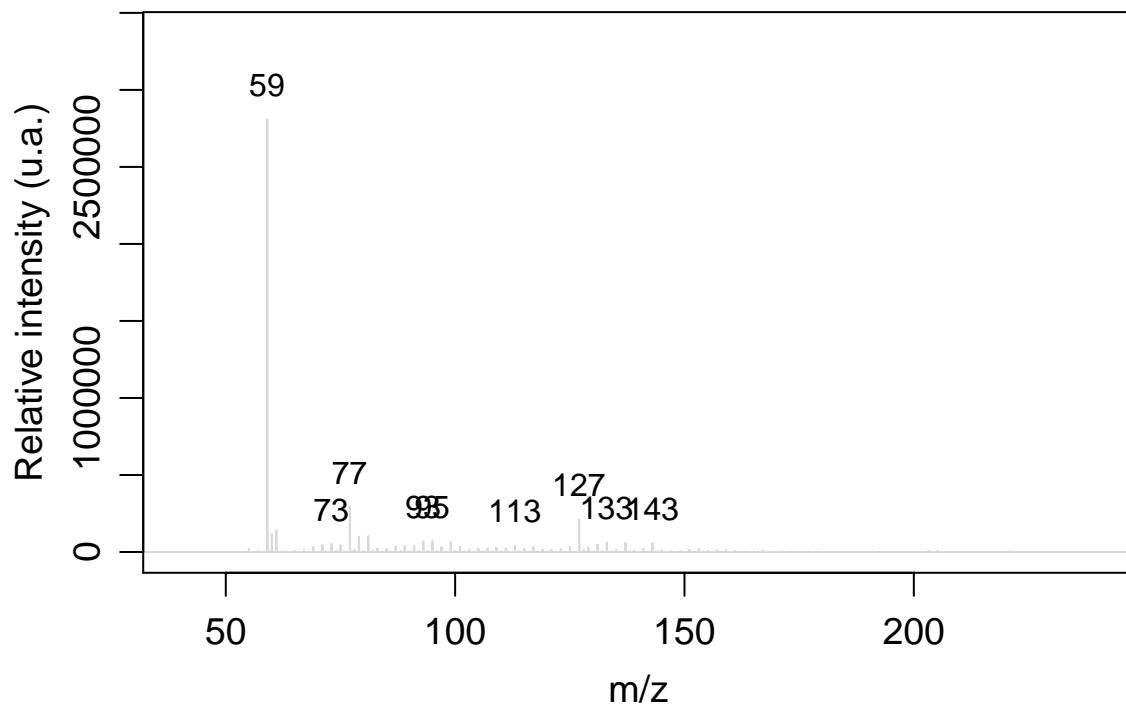


**s1\_Ch1\_1v1\_c059\_n232**

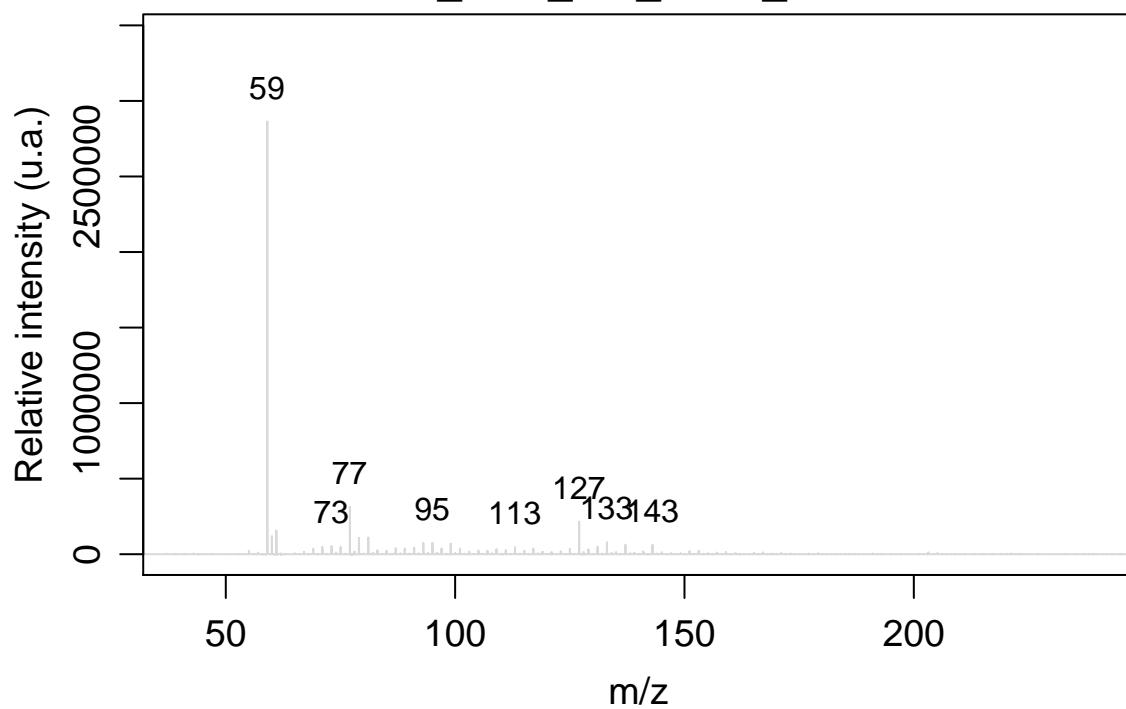




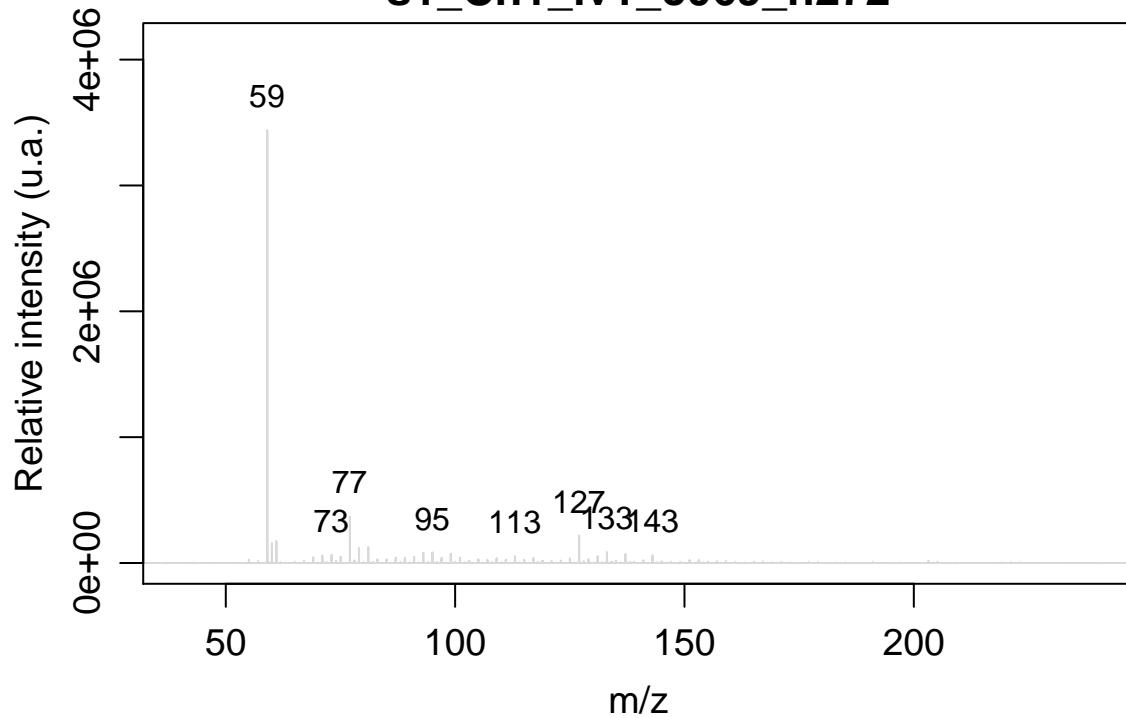
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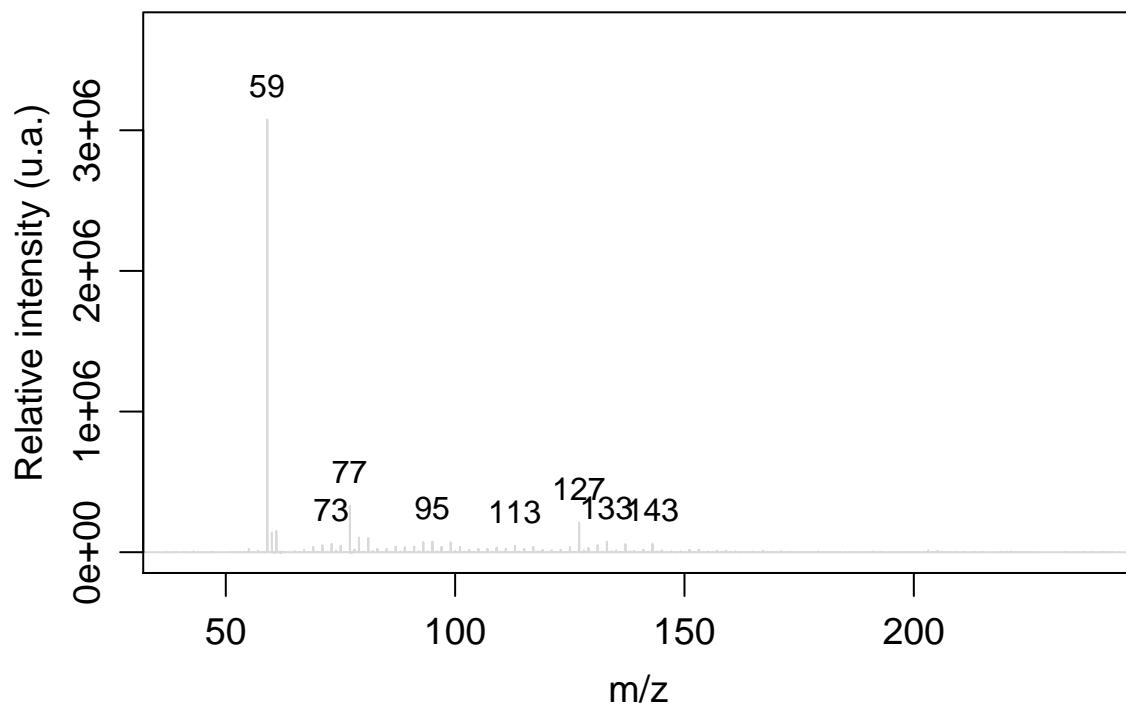
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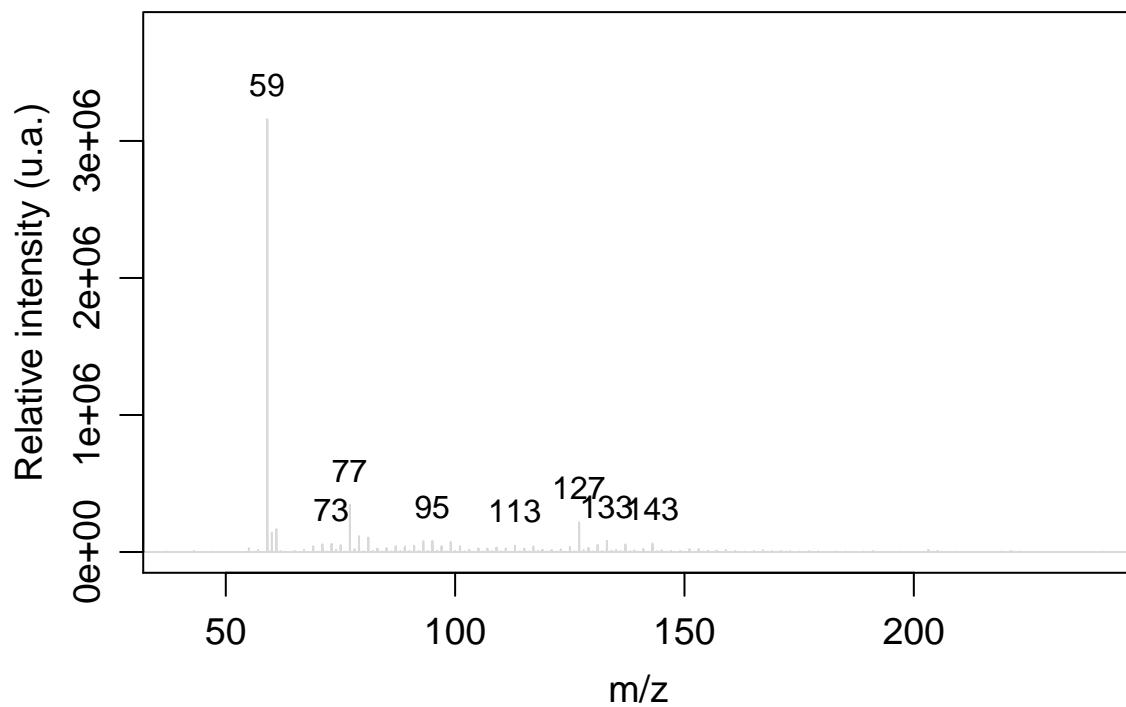
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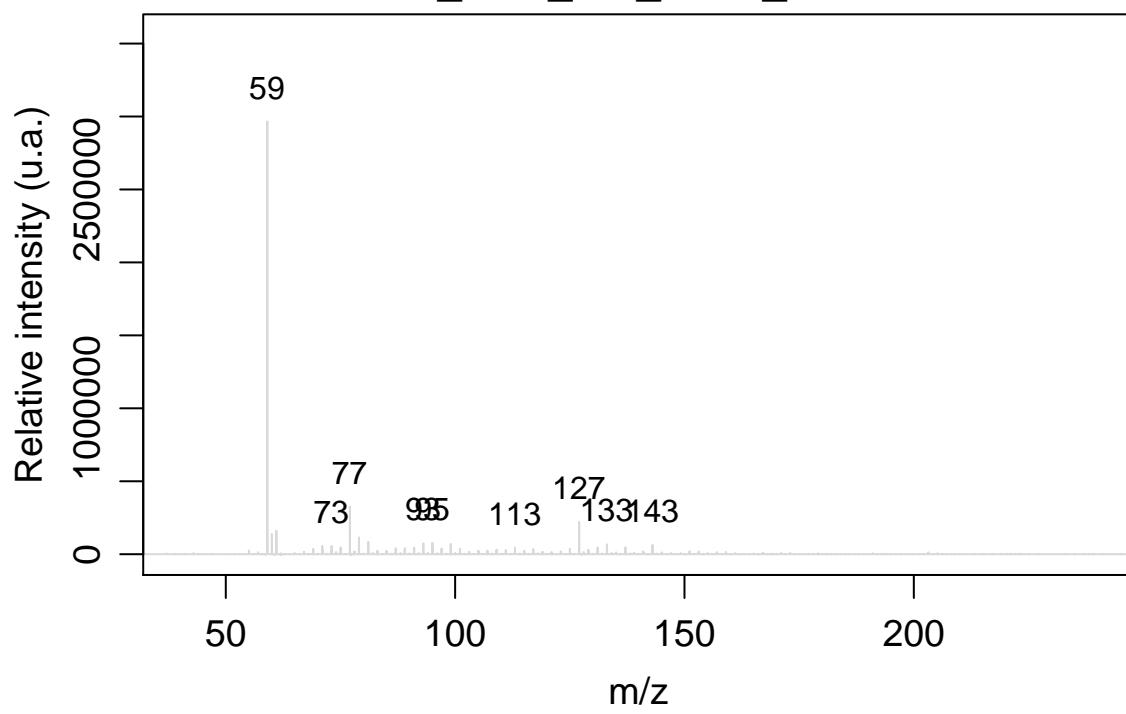
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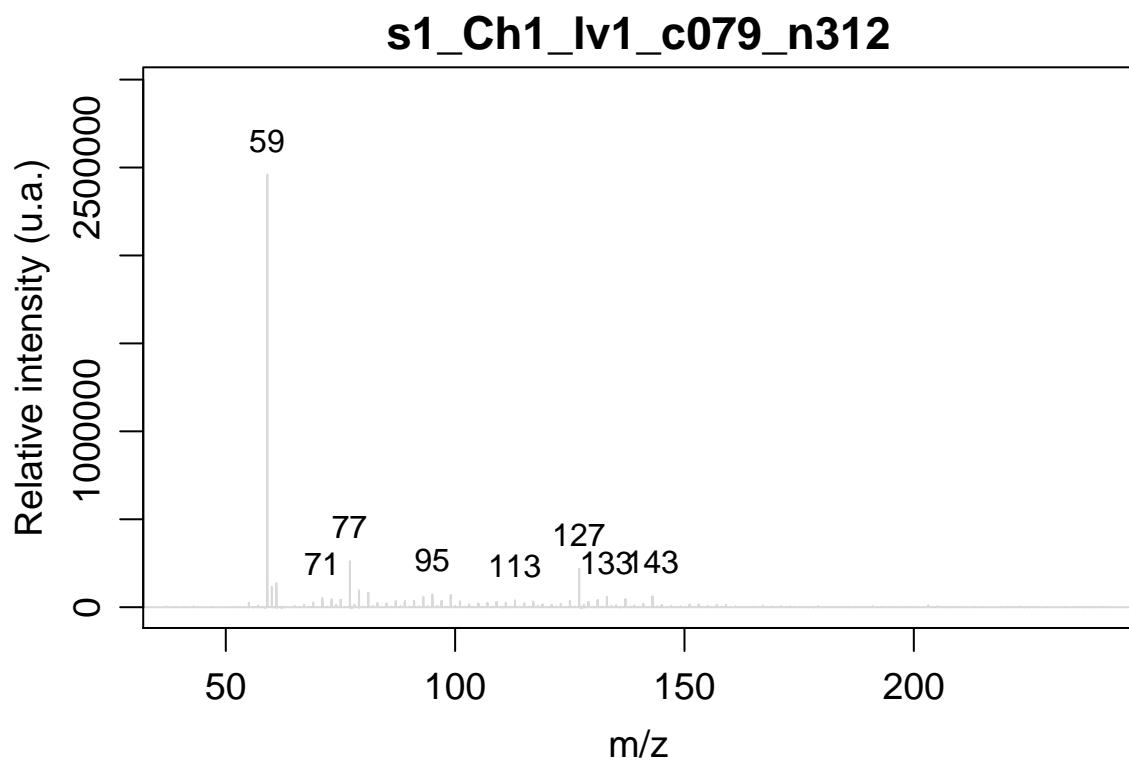
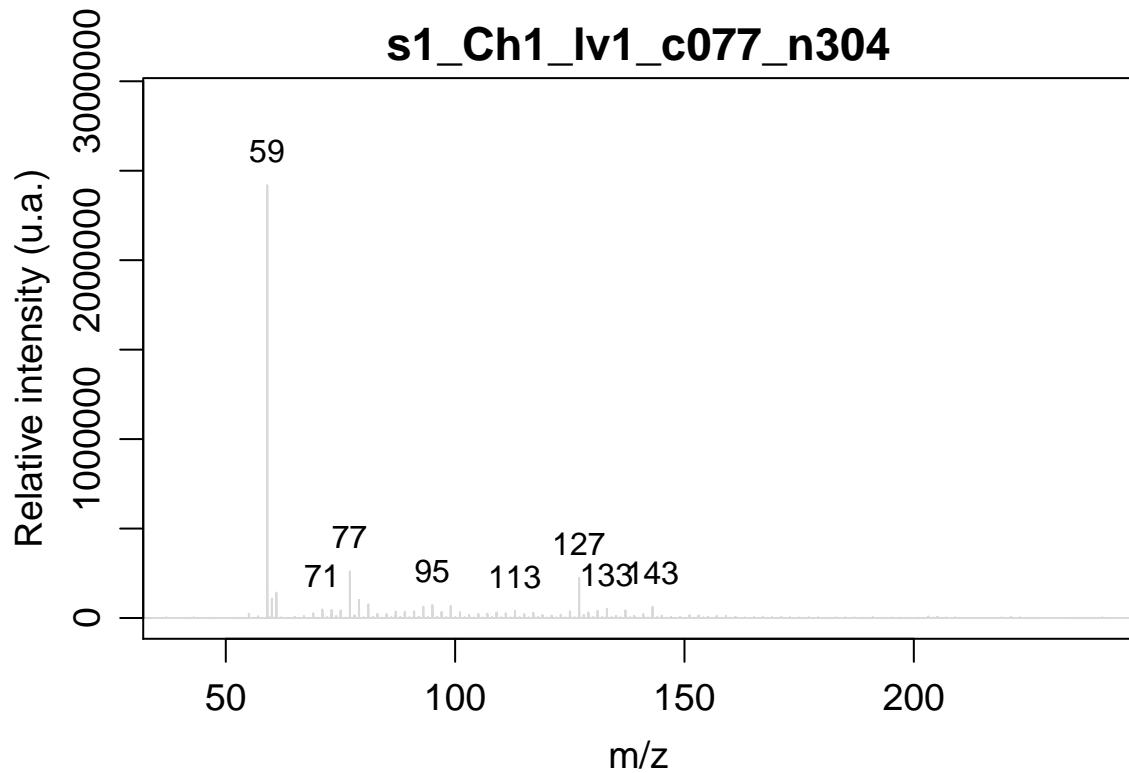


**s1\_Ch1\_1v1\_c073\_n288**

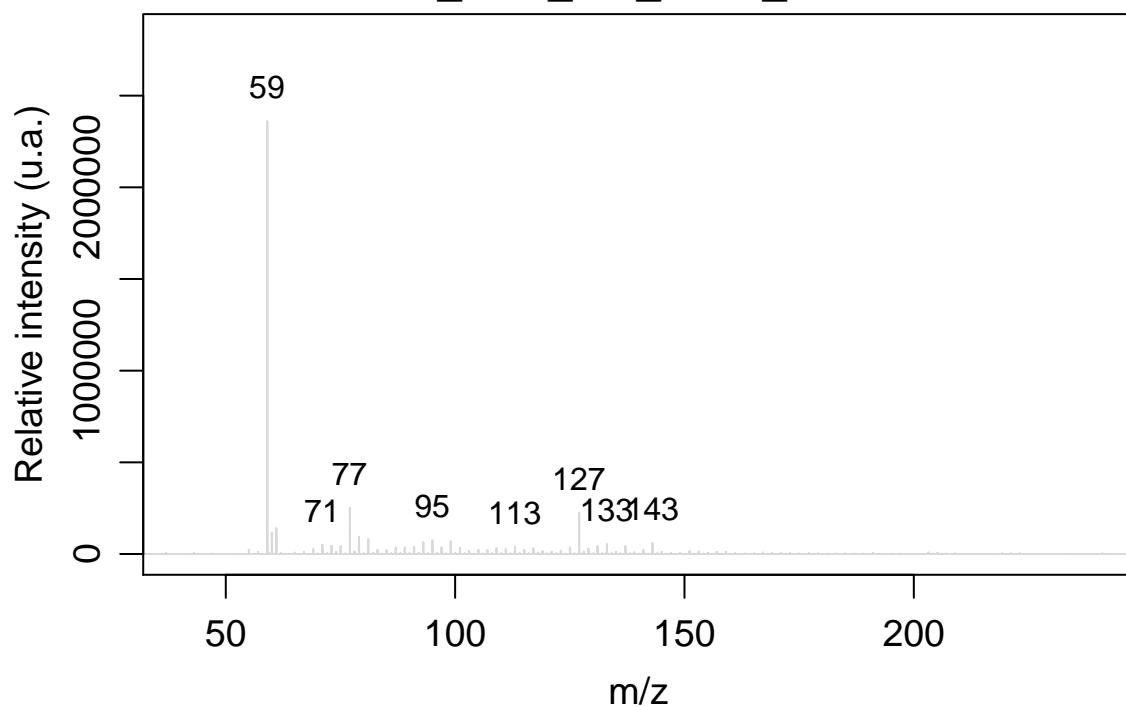


**s1\_Ch1\_1v1\_c075\_n296**

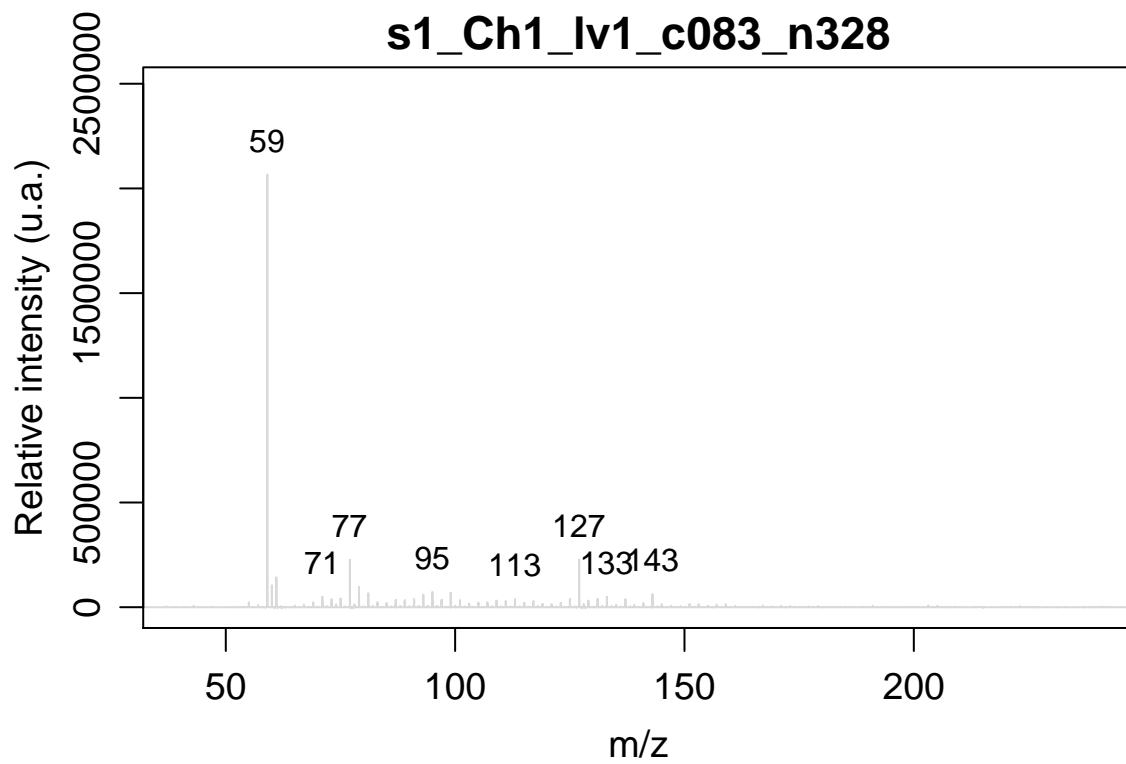




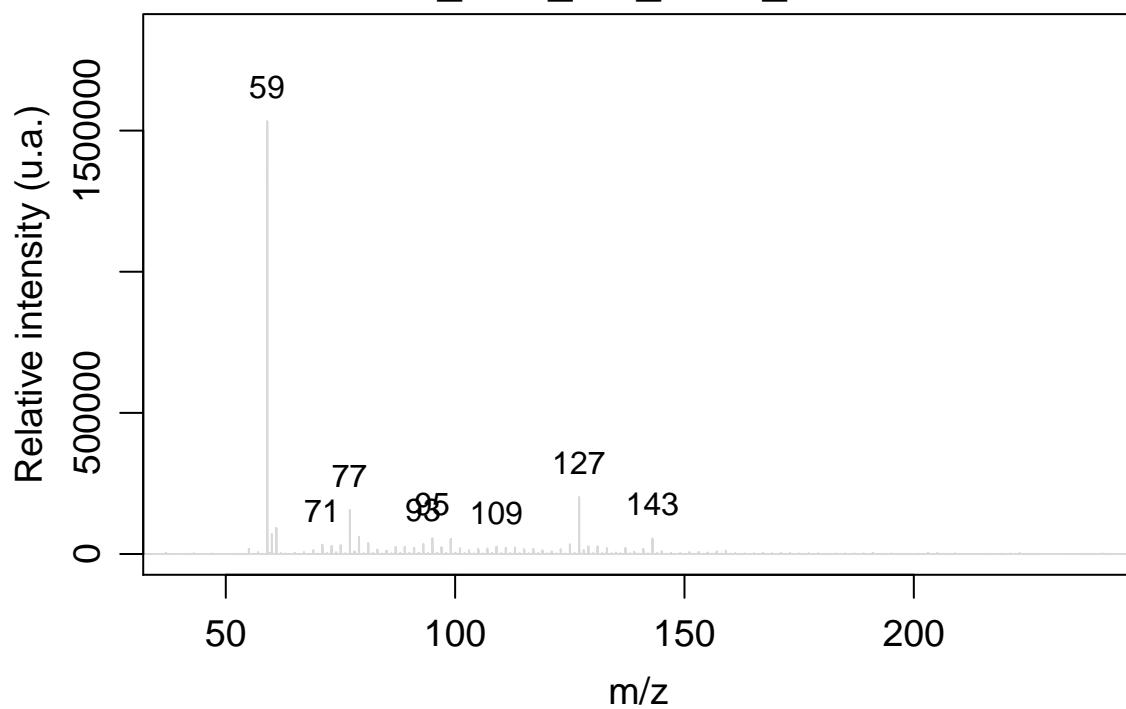
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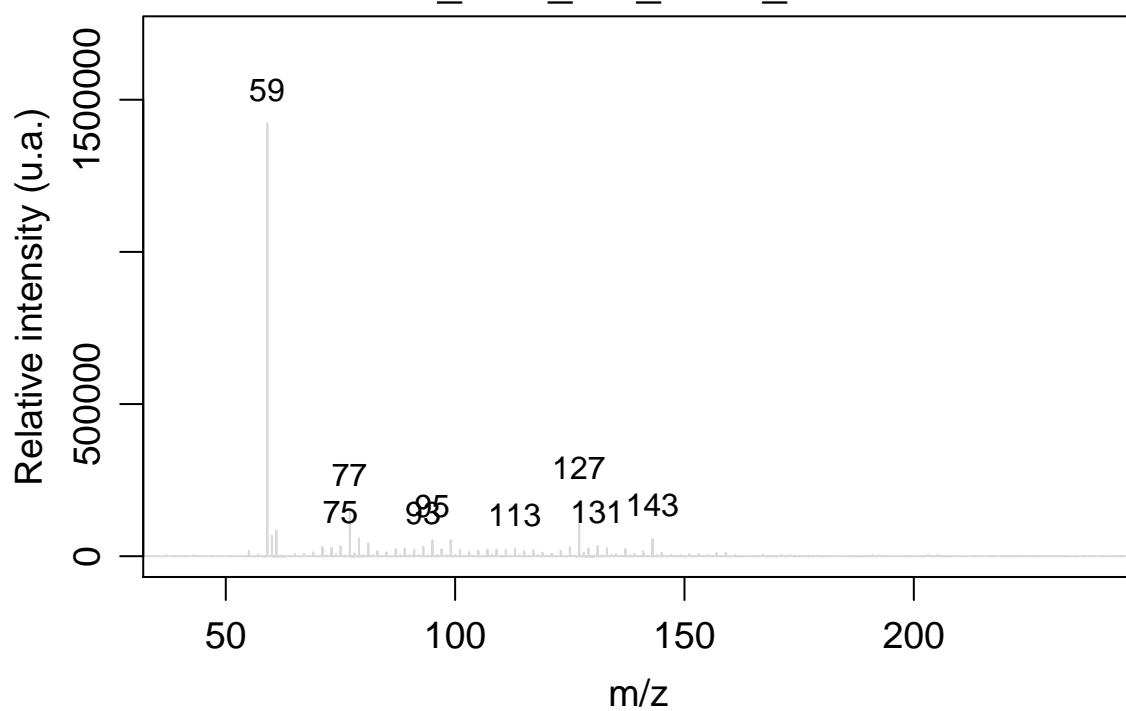
**s1\_Ch1\_lv1\_c083\_n328**



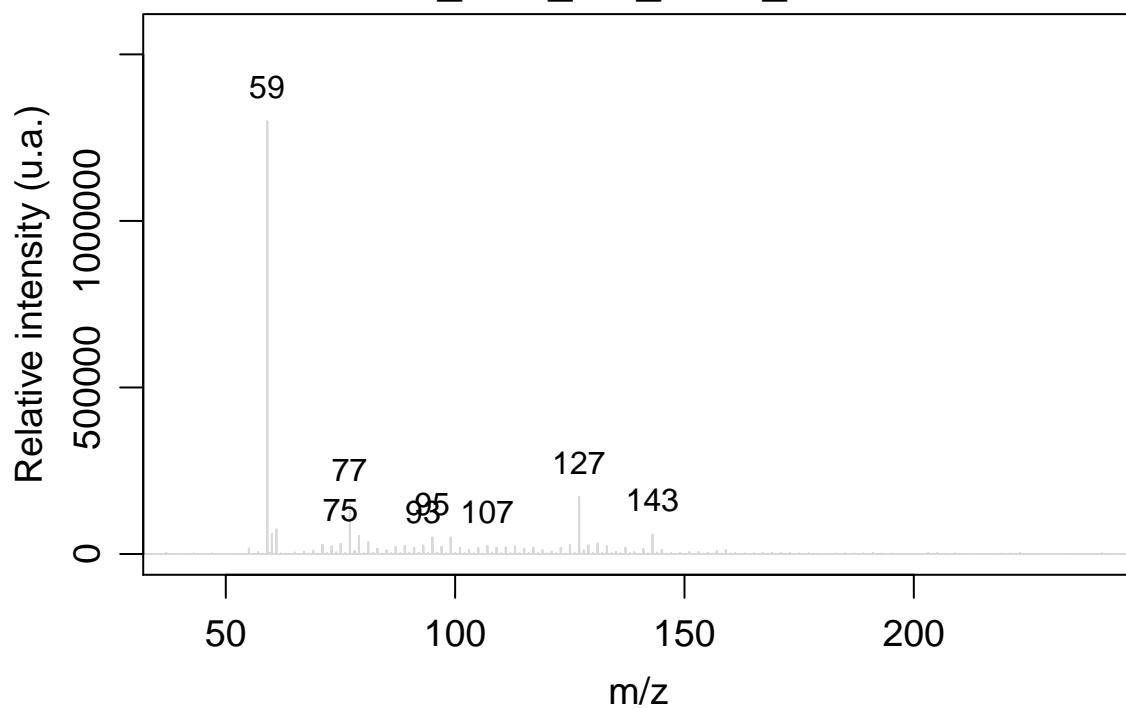
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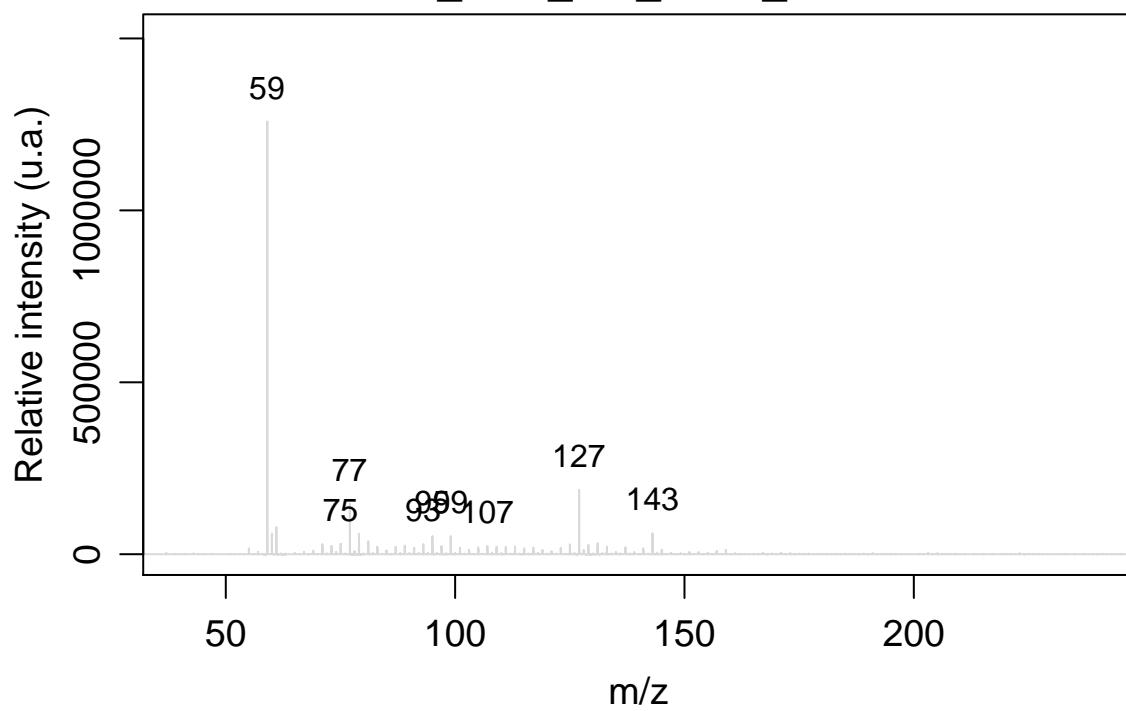
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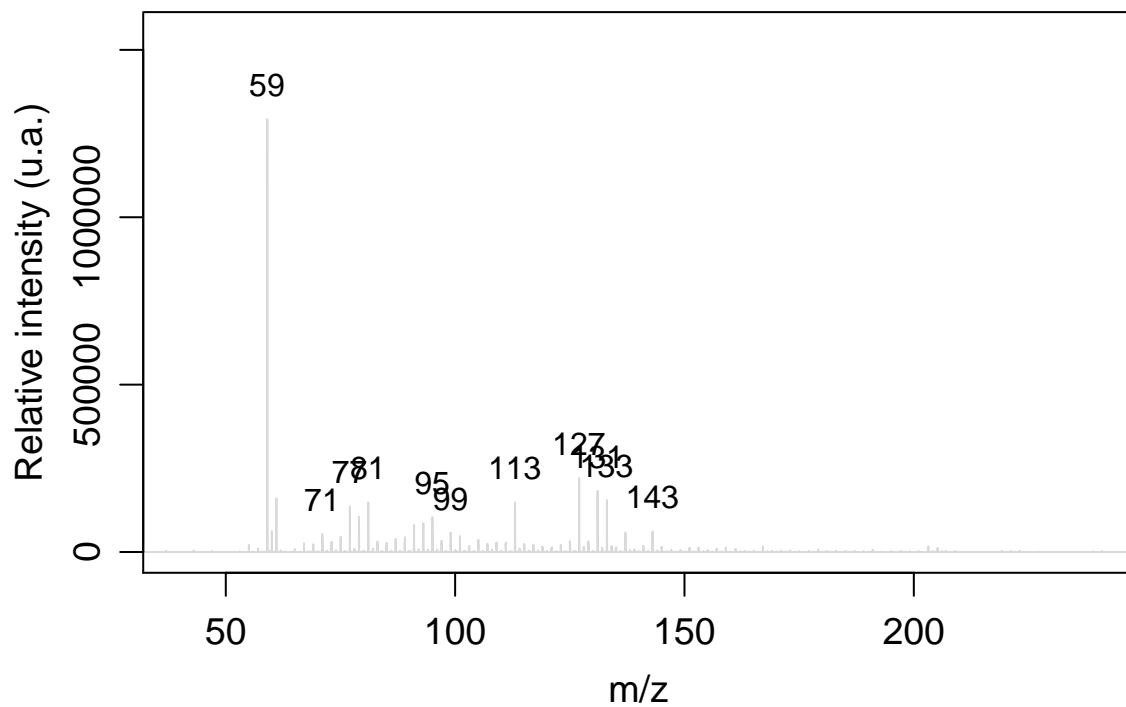
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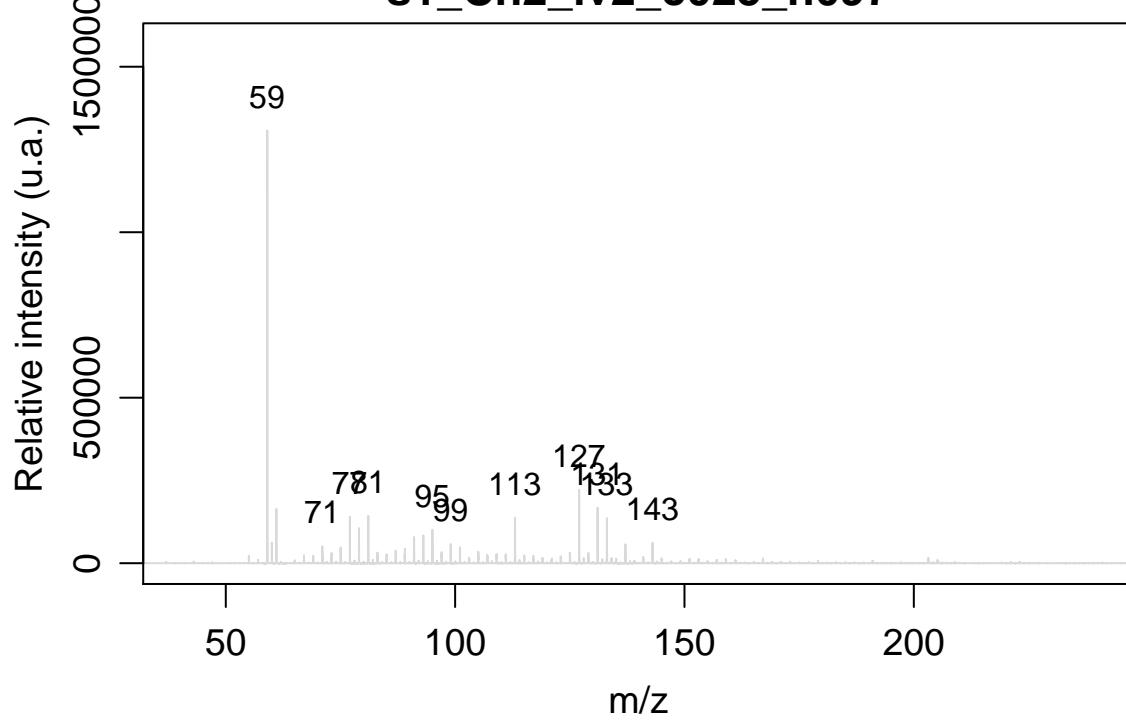
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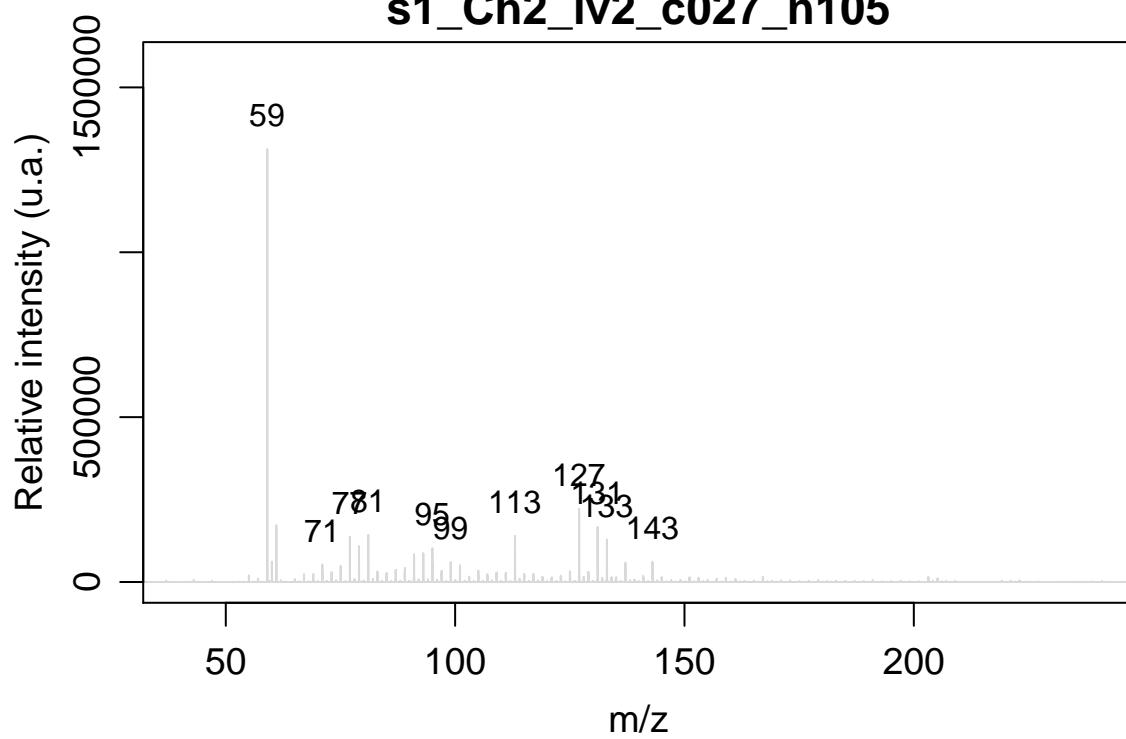
**s1\_Ch2\_!v2\_c023\_n089**



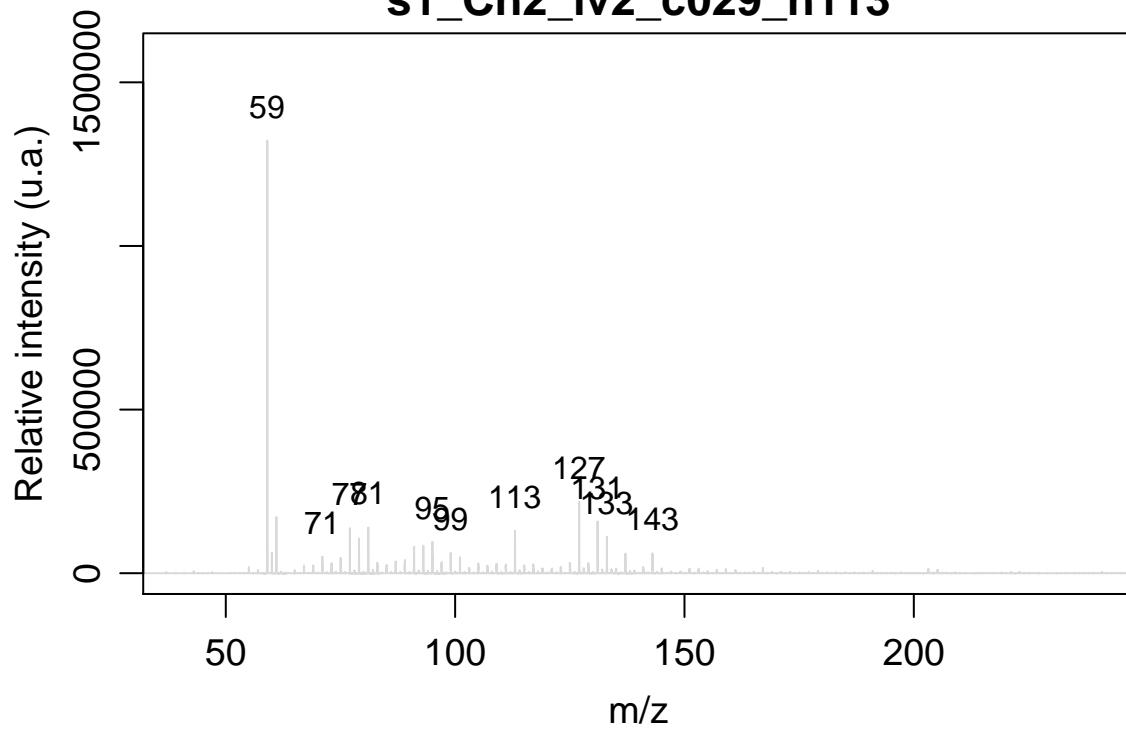
**s1\_Ch2\_!v2\_c025\_n097**



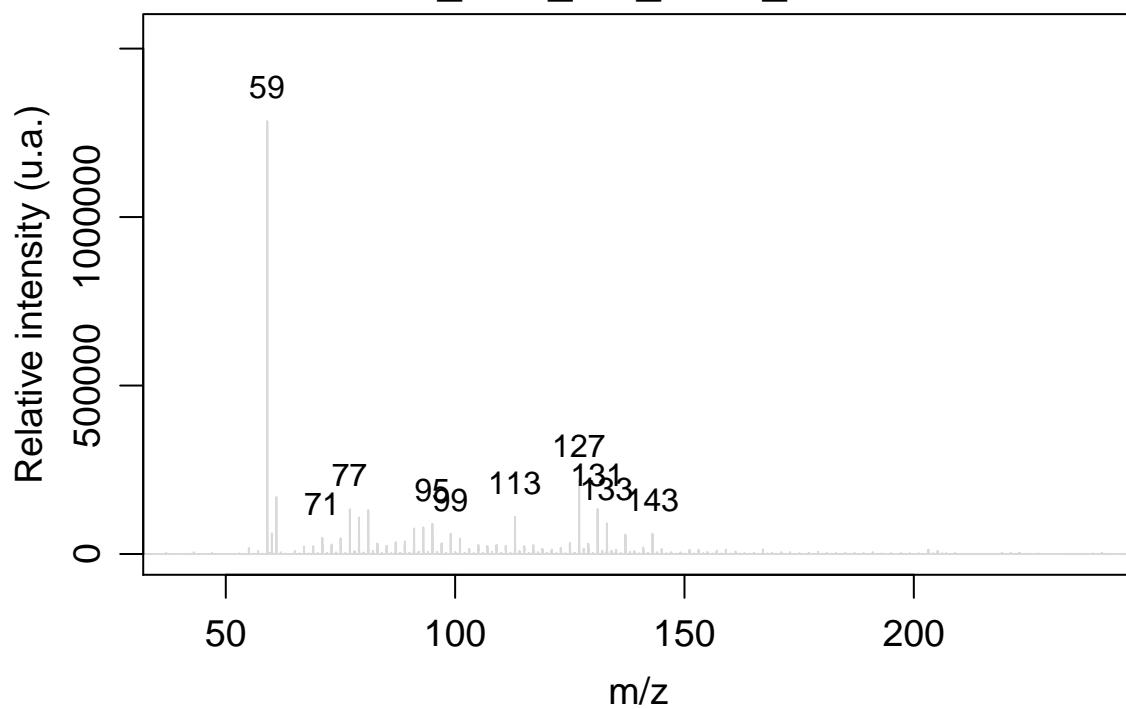
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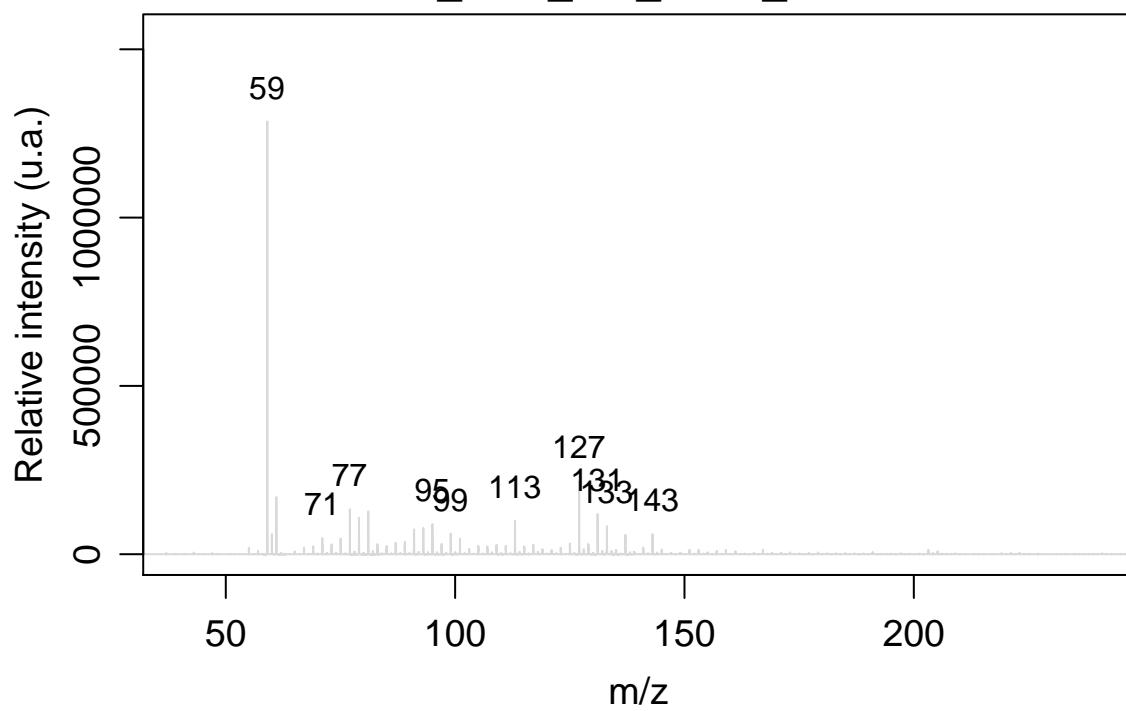
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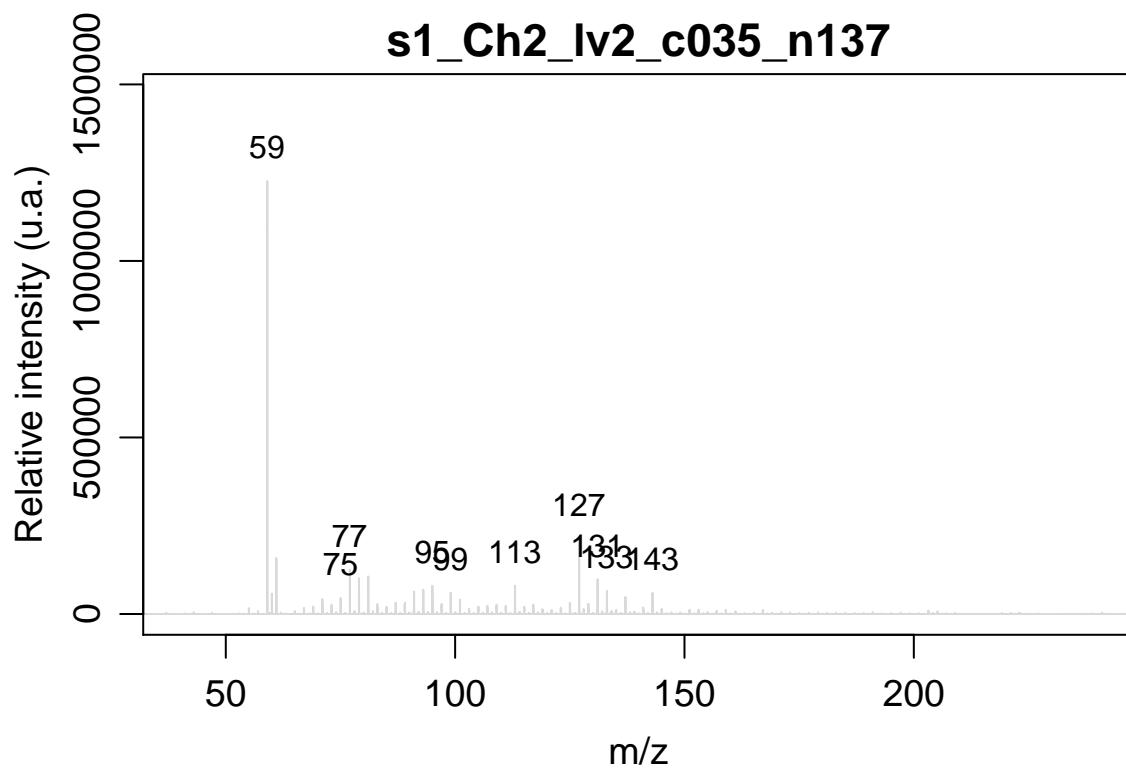
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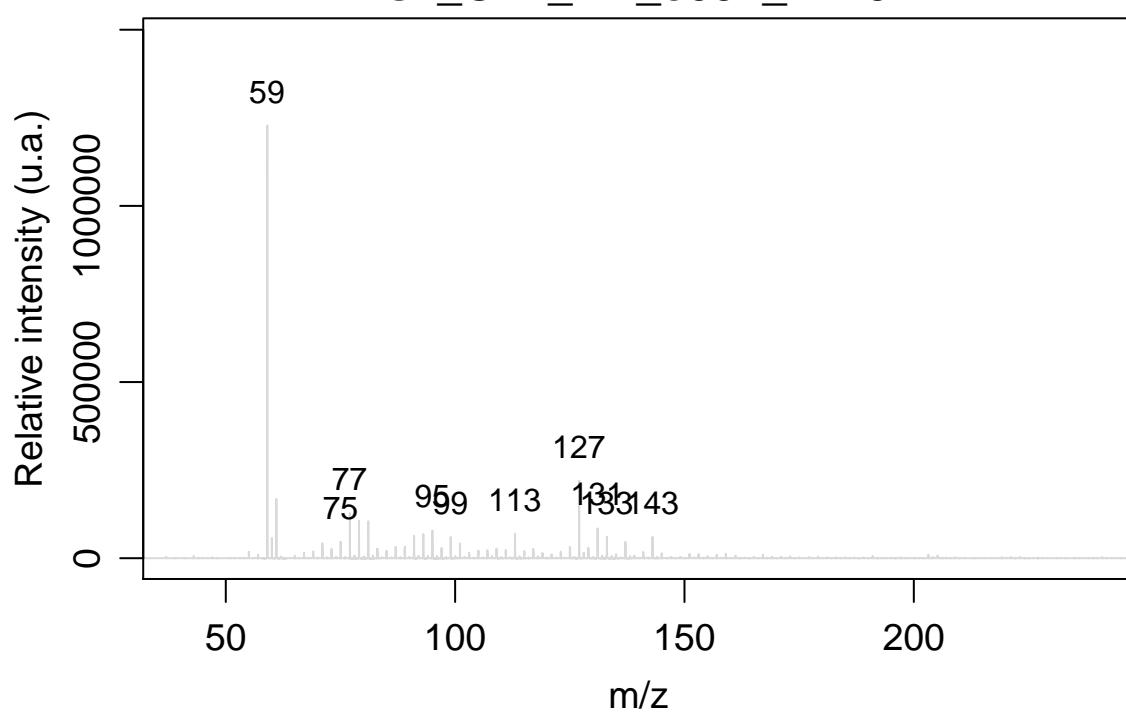
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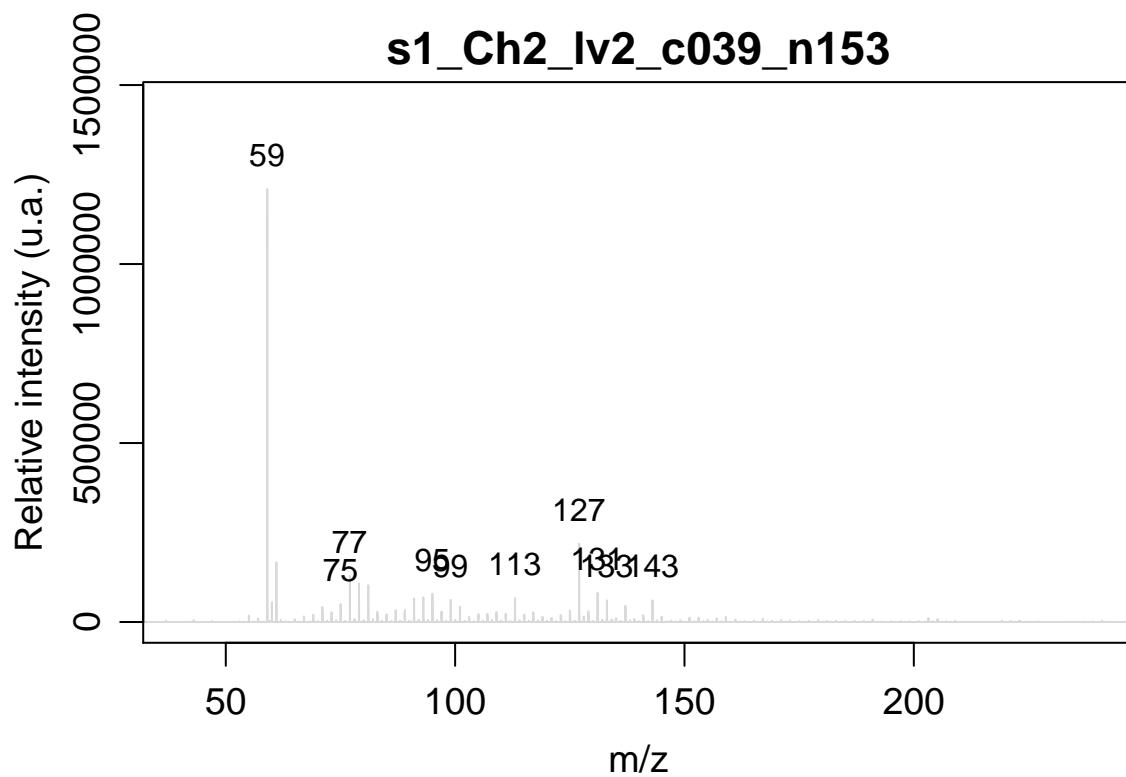
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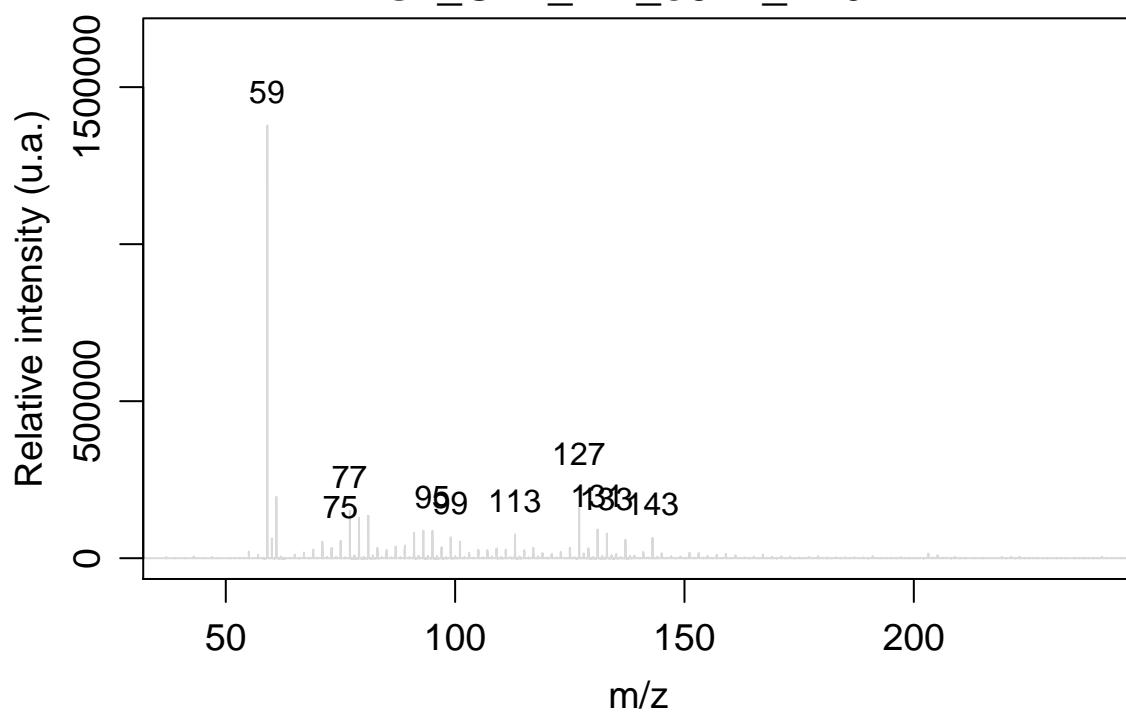
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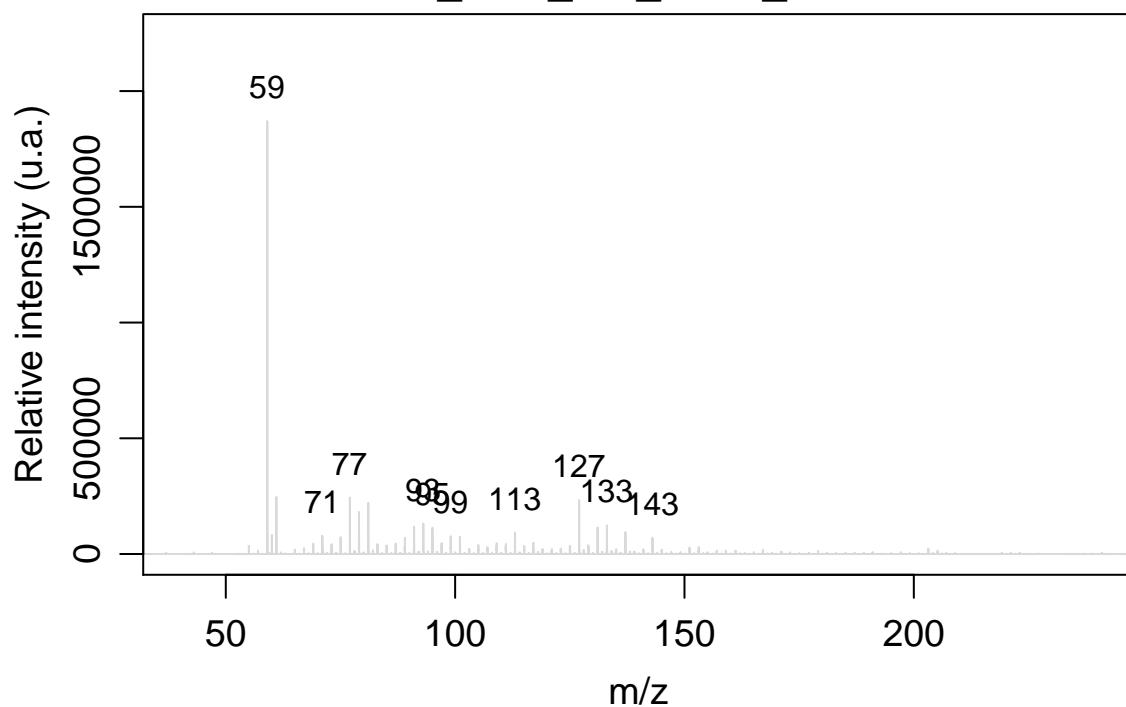
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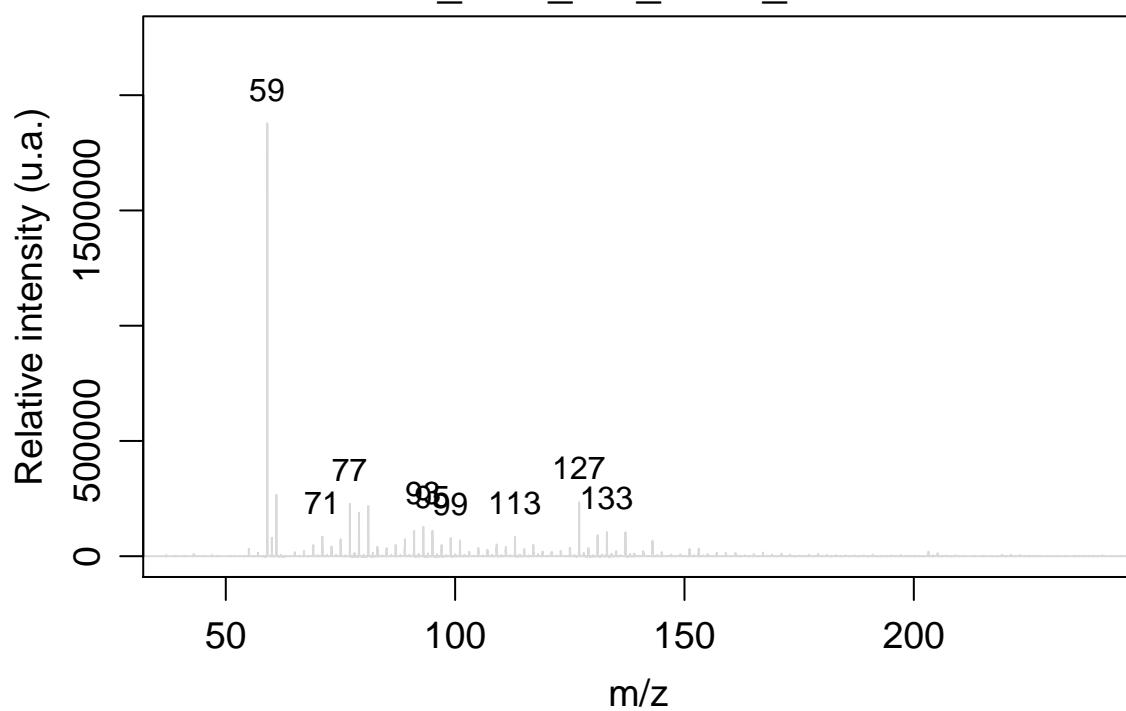
**s1\_Ch2\_!v2\_c041\_n161**



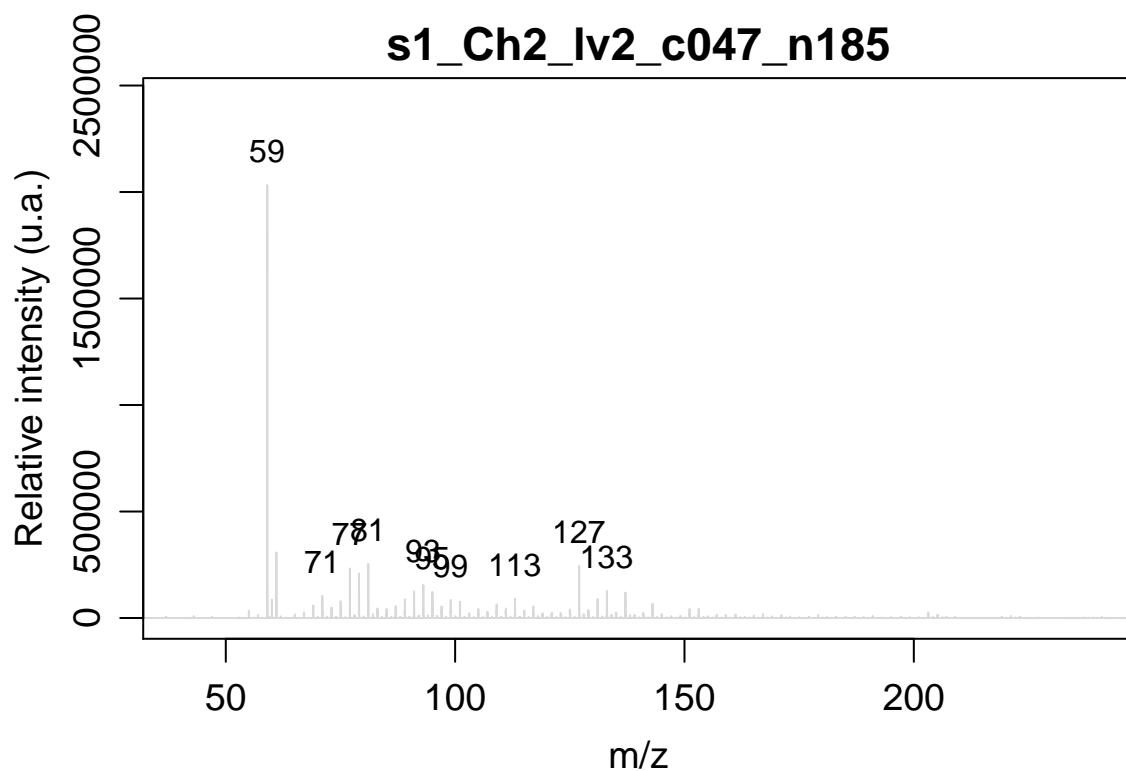
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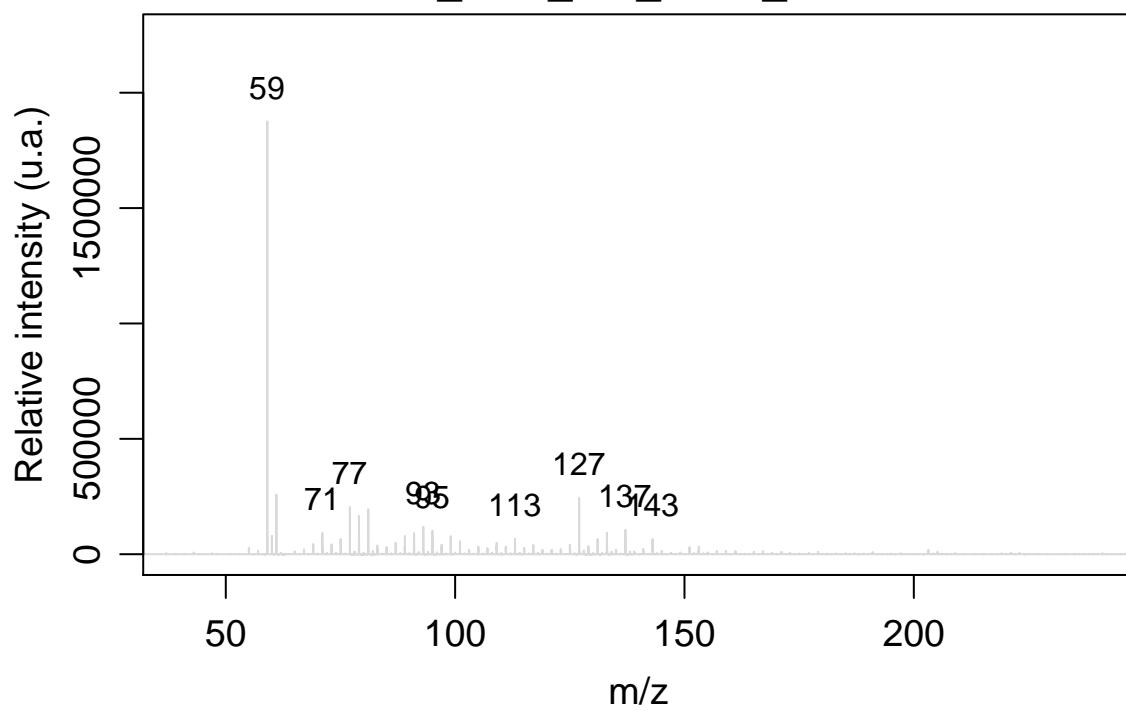
**s1\_Ch2\_!v2\_c045\_n177**



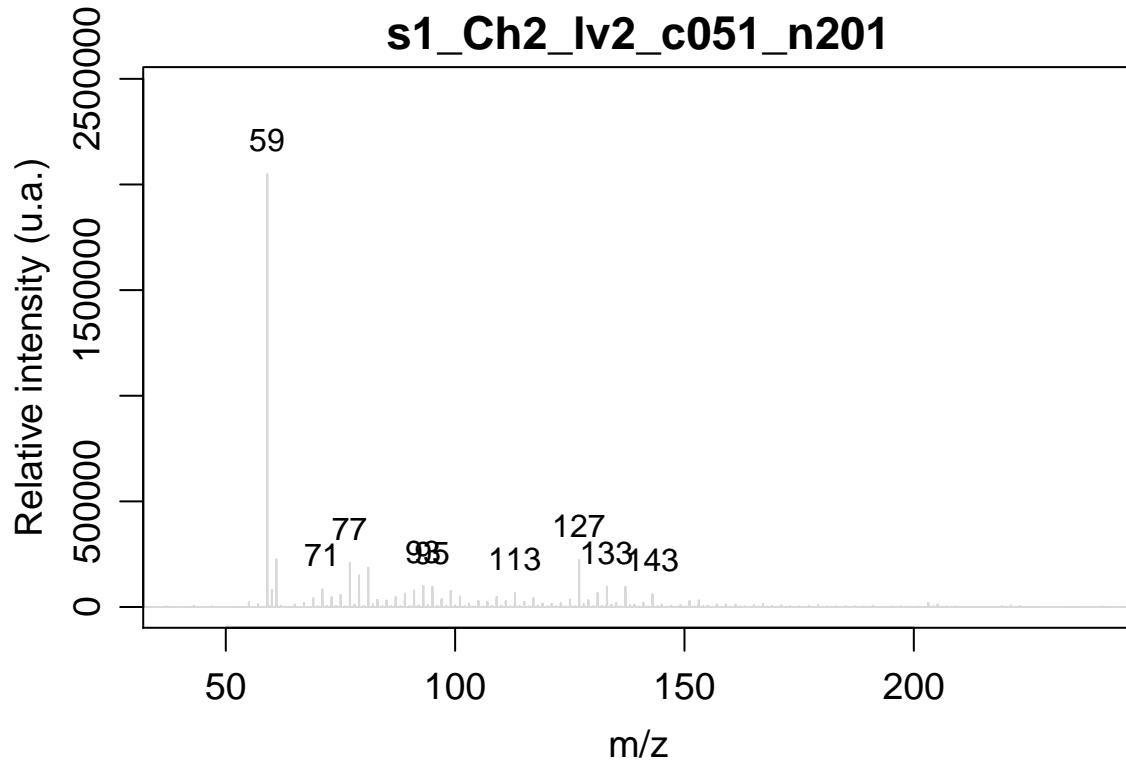
**s1\_Ch2\_!v2\_c047\_n185**



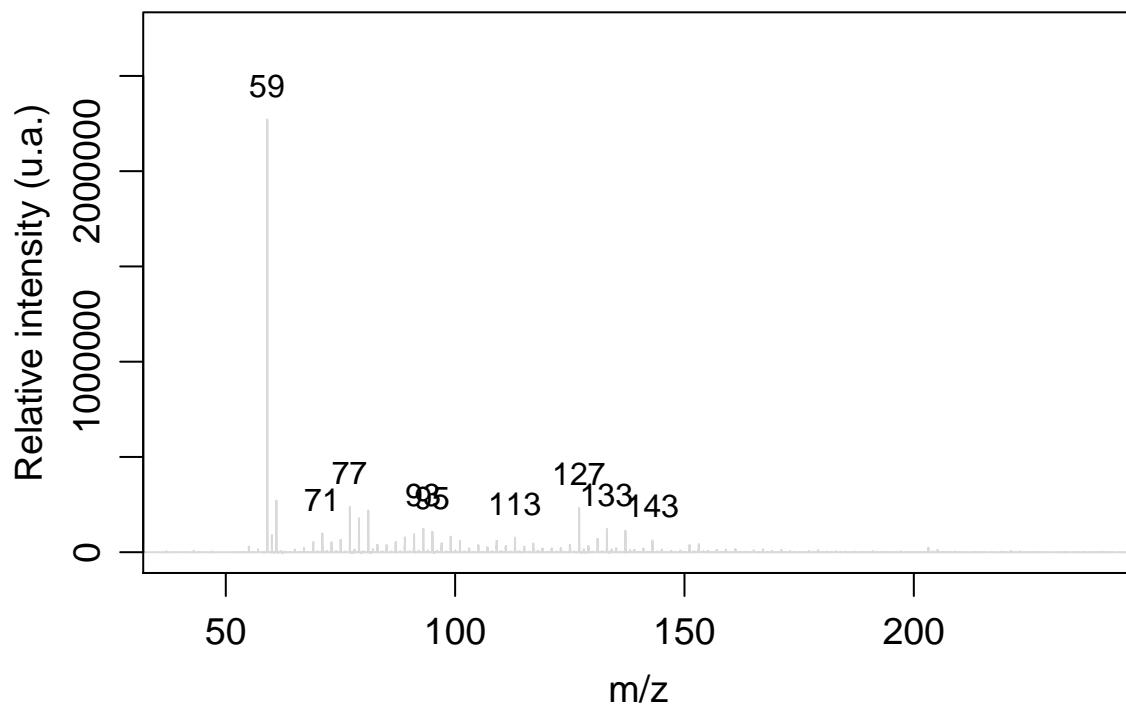
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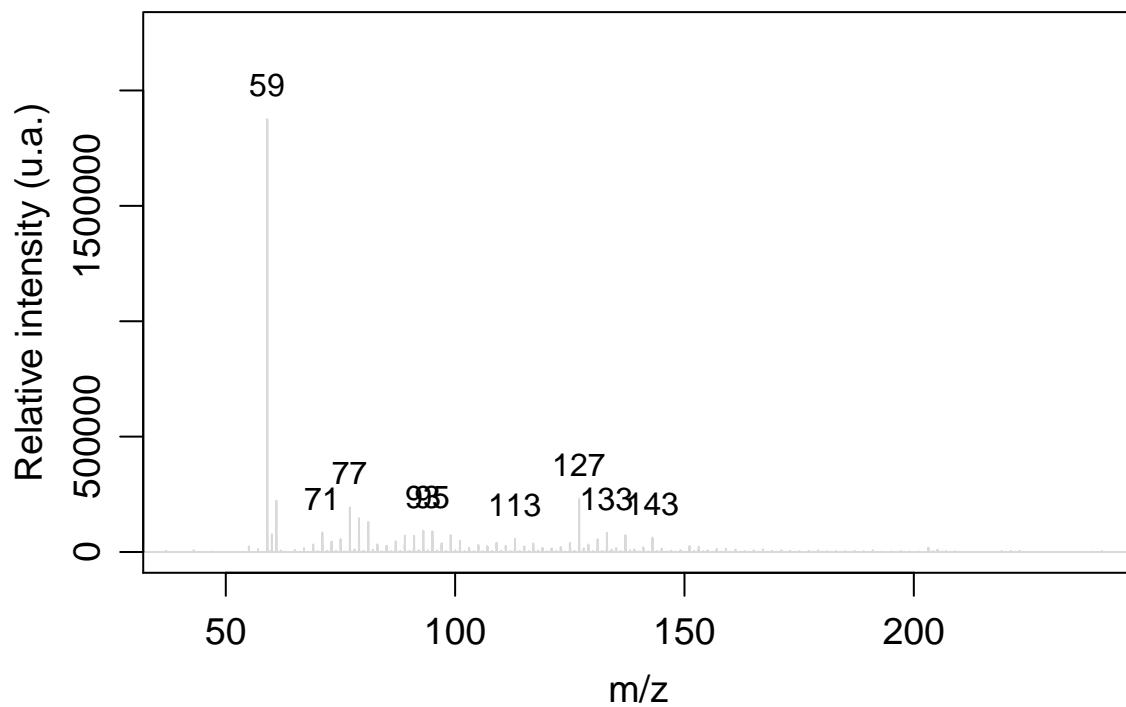
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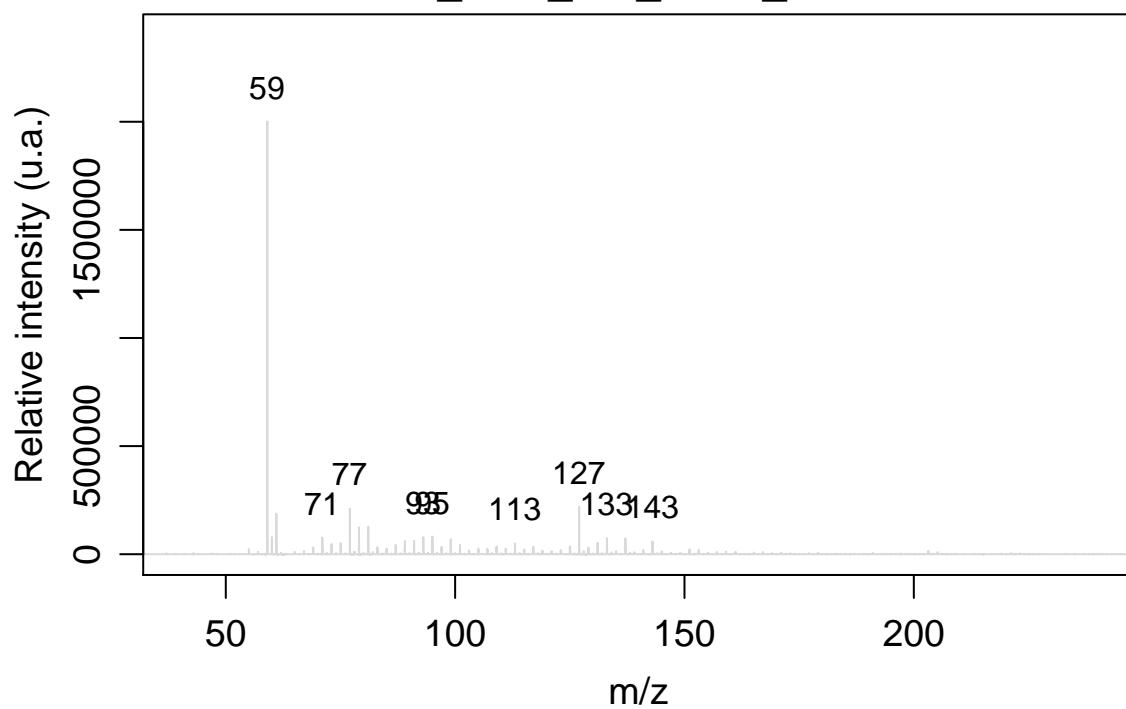
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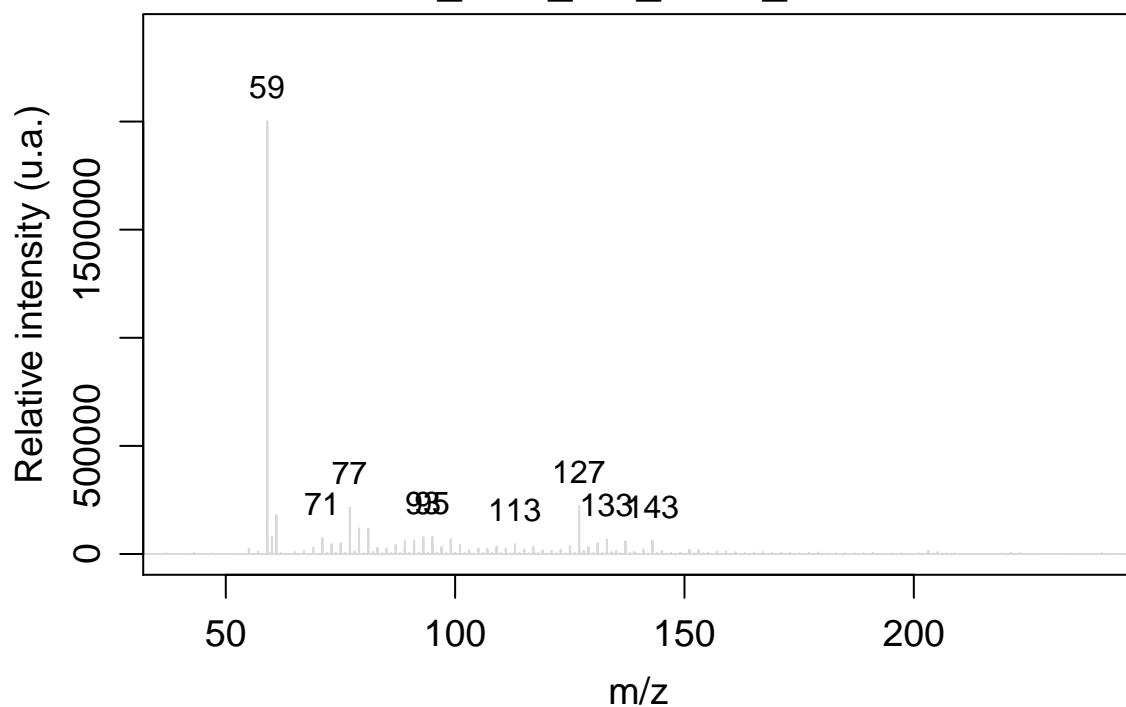
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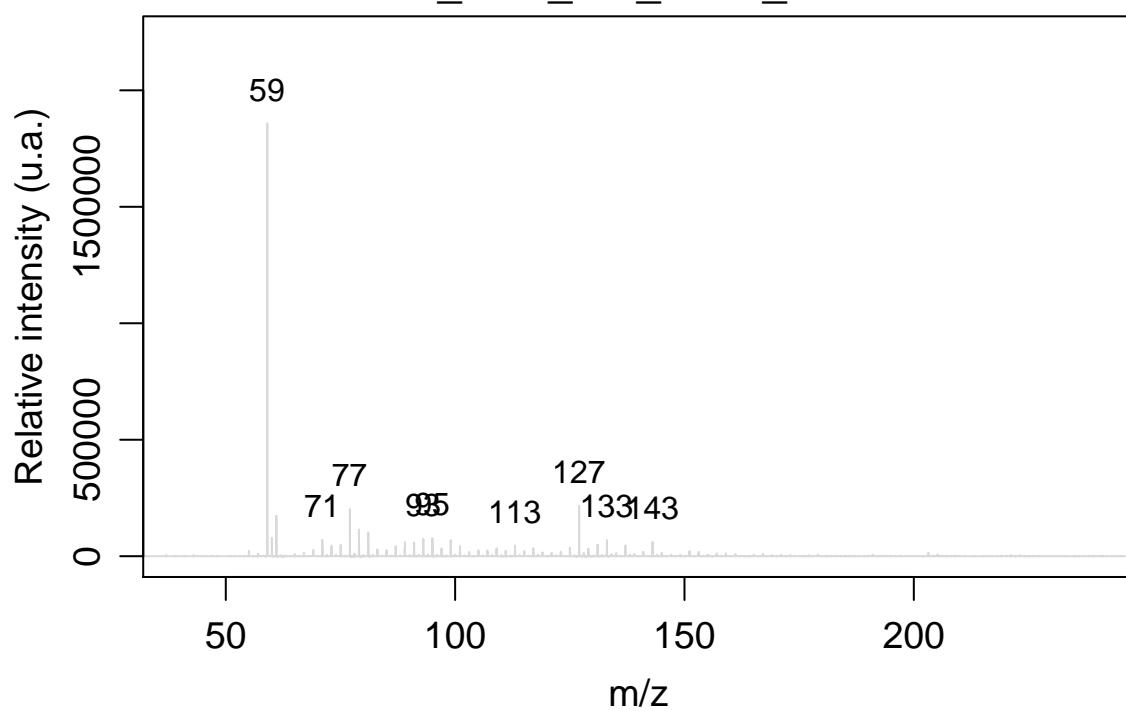
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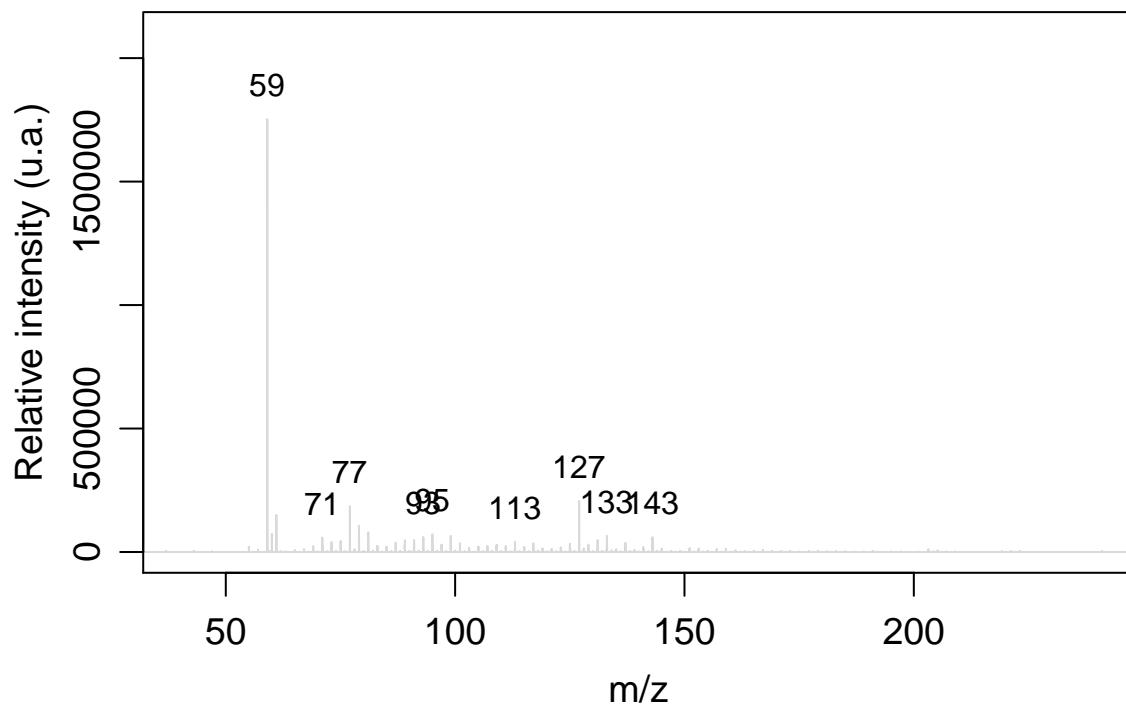
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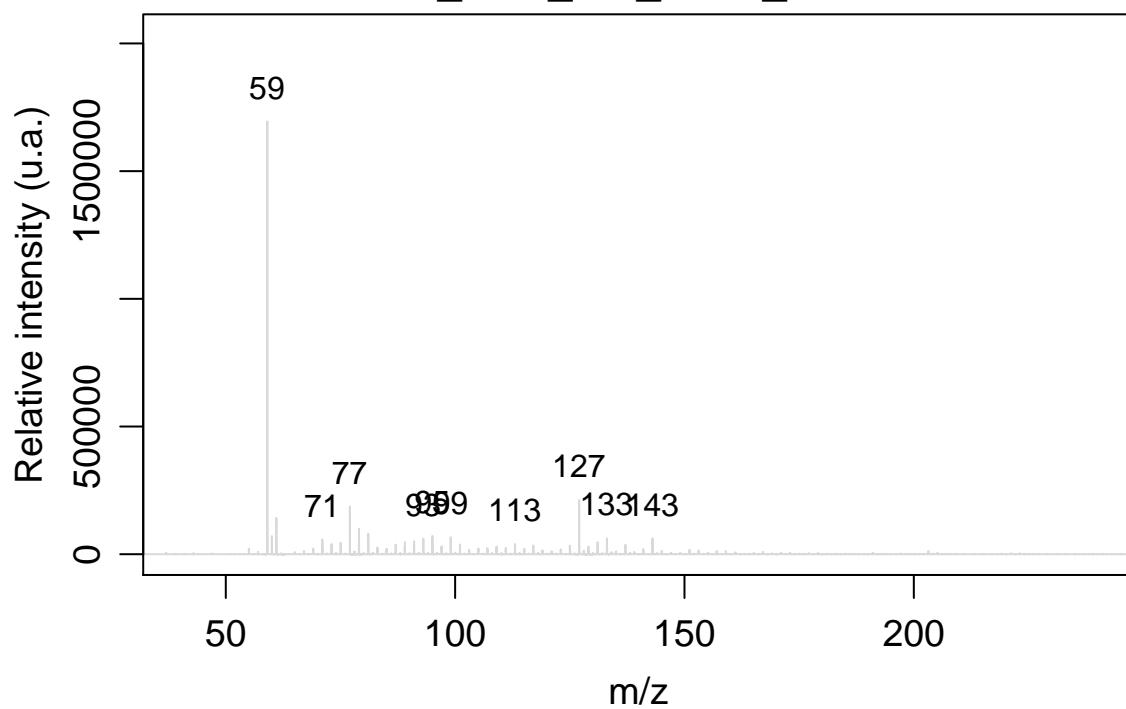
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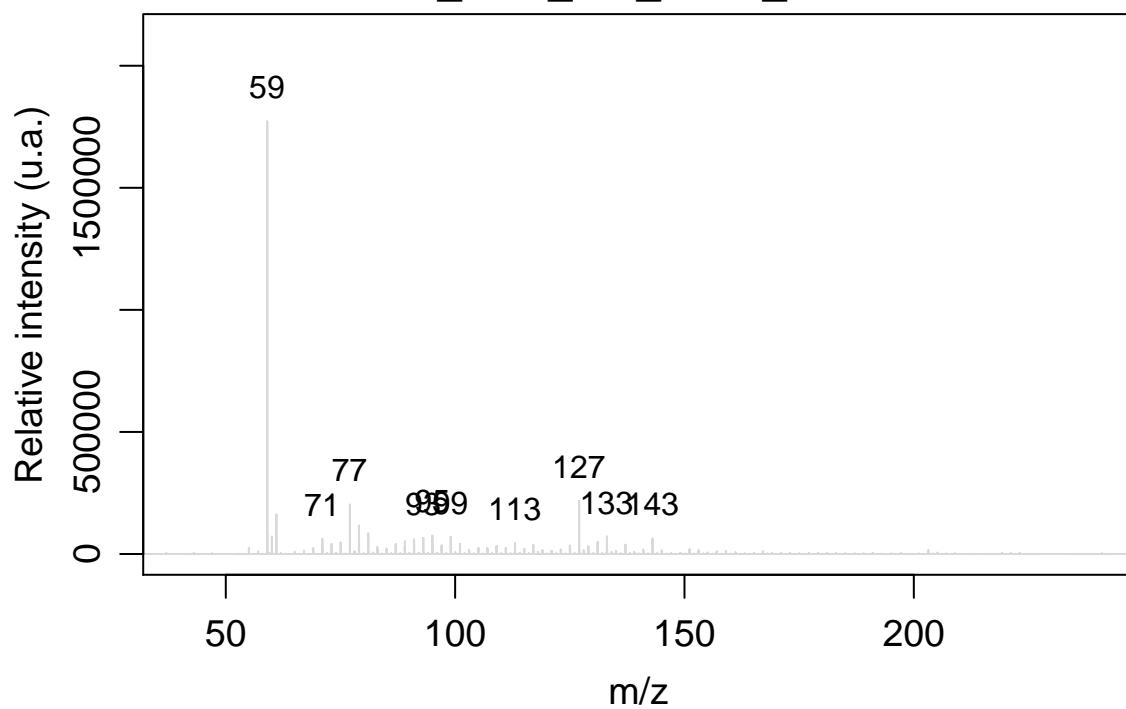
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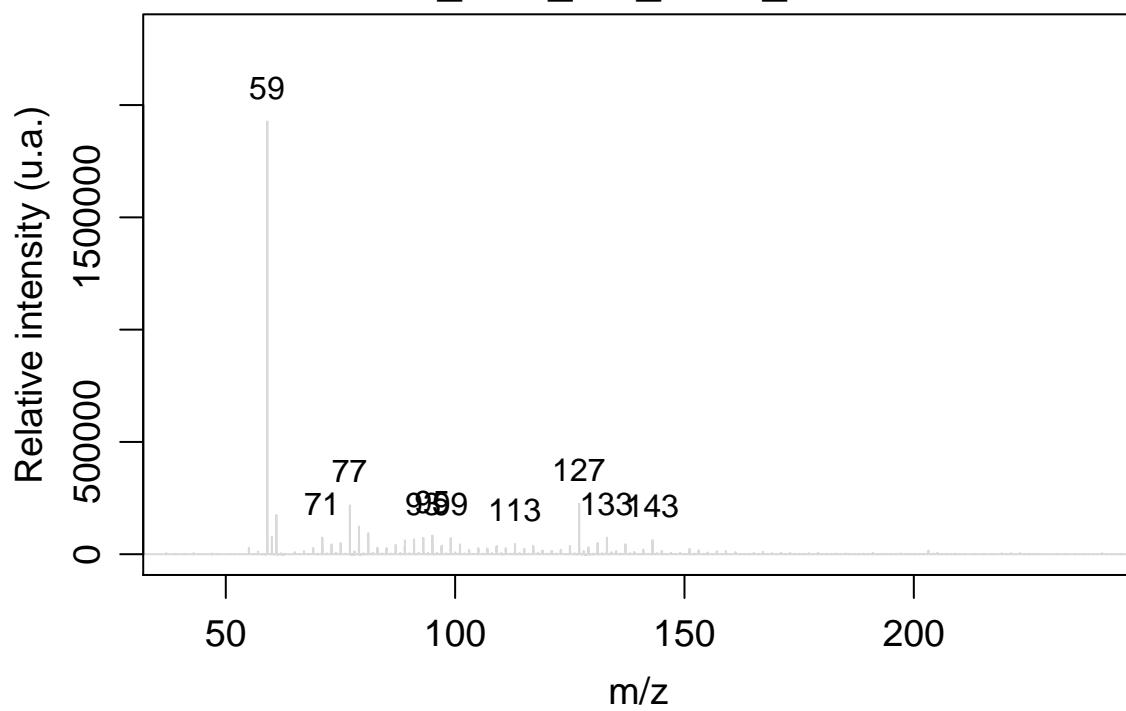
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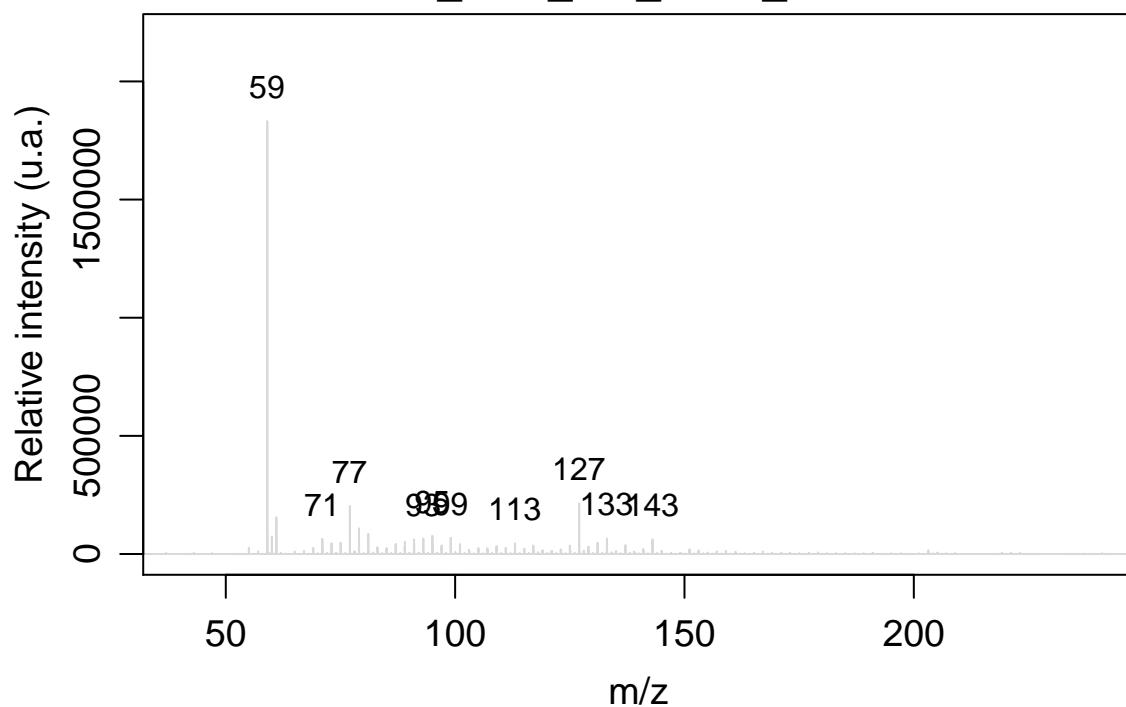
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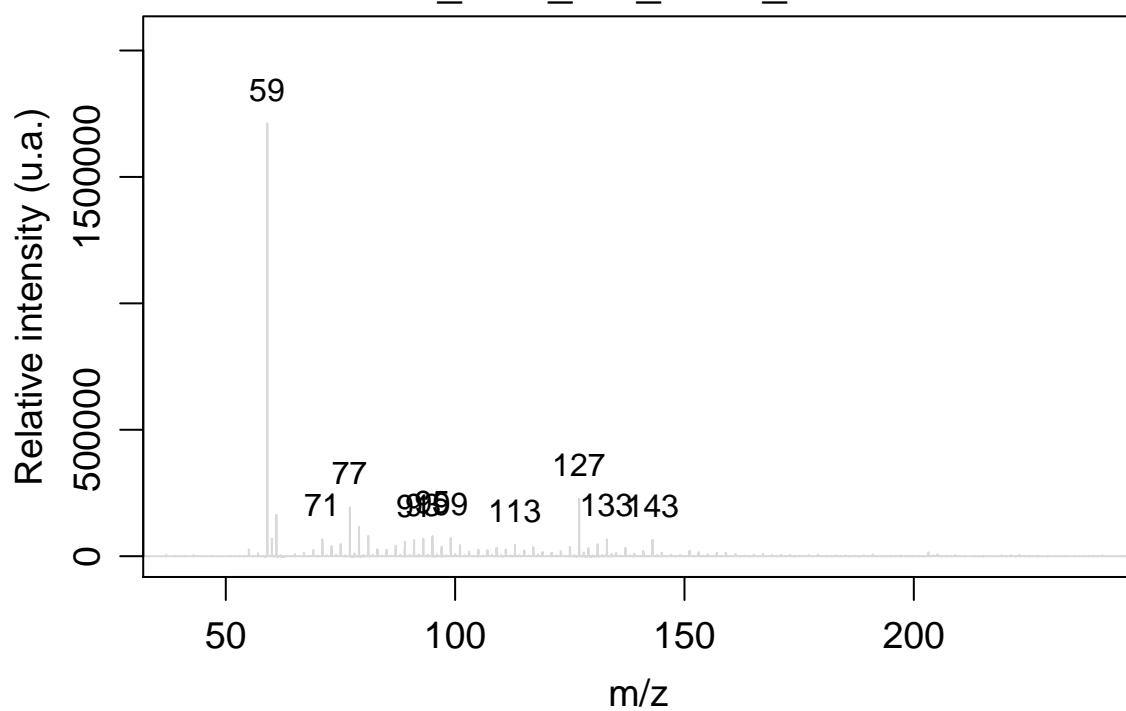
**s1\_Ch2\_!v2\_c069\_n273**



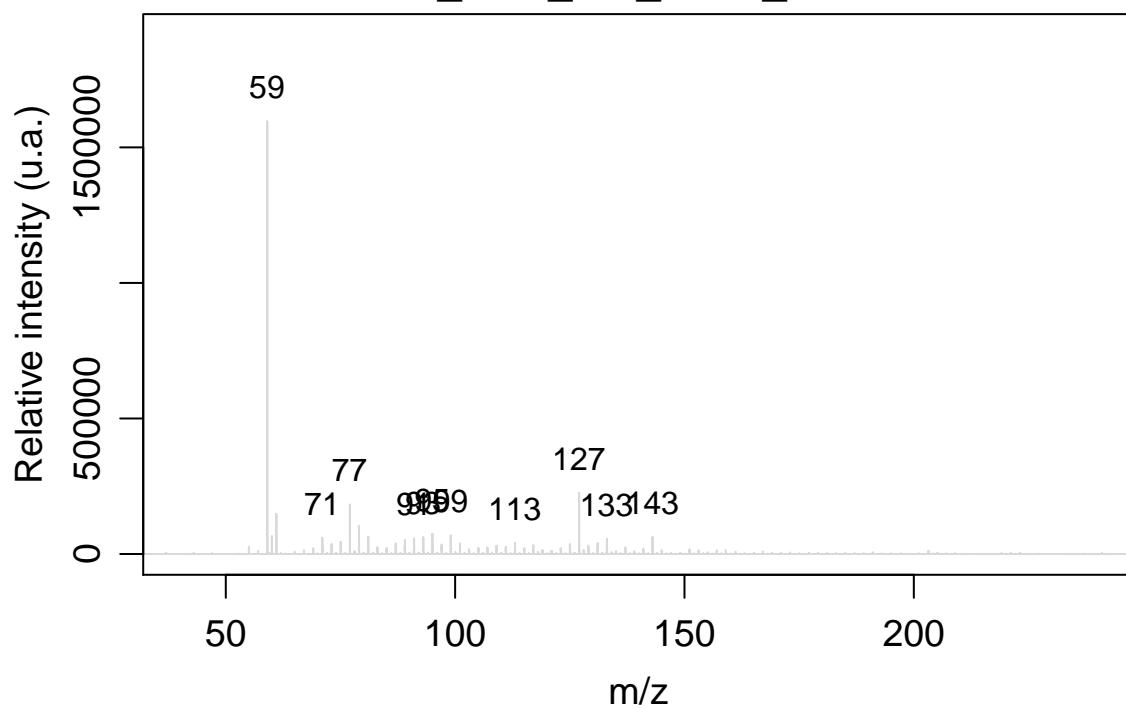
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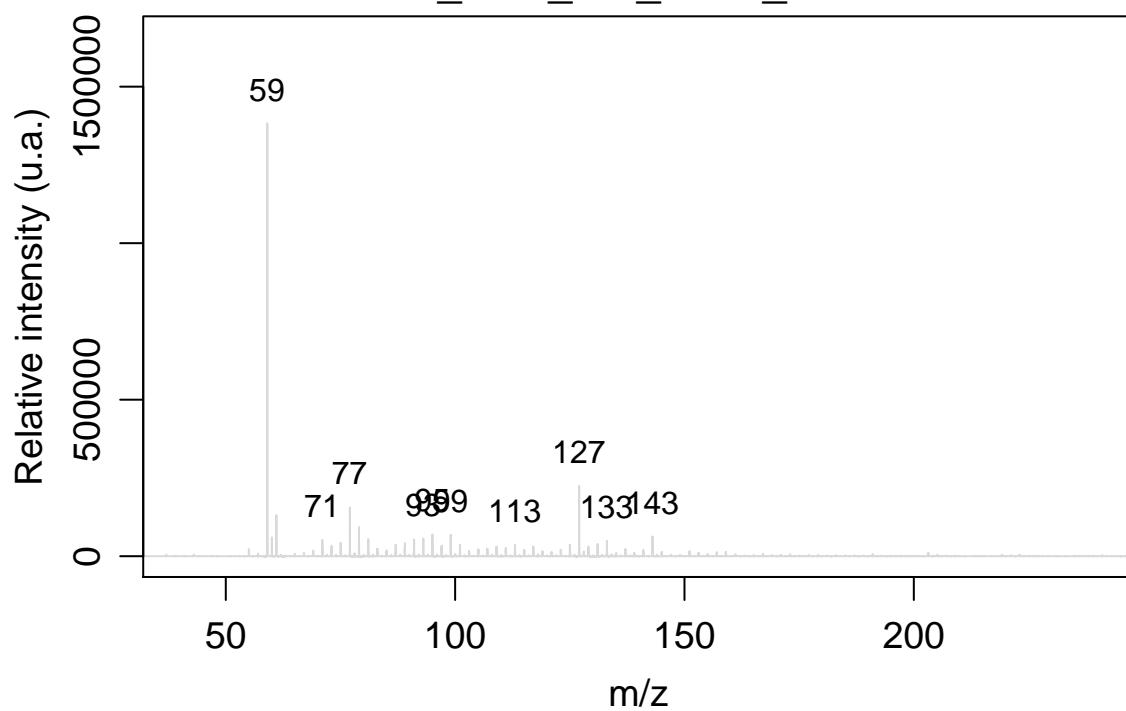
**s1\_Ch2\_!v2\_c073\_n289**



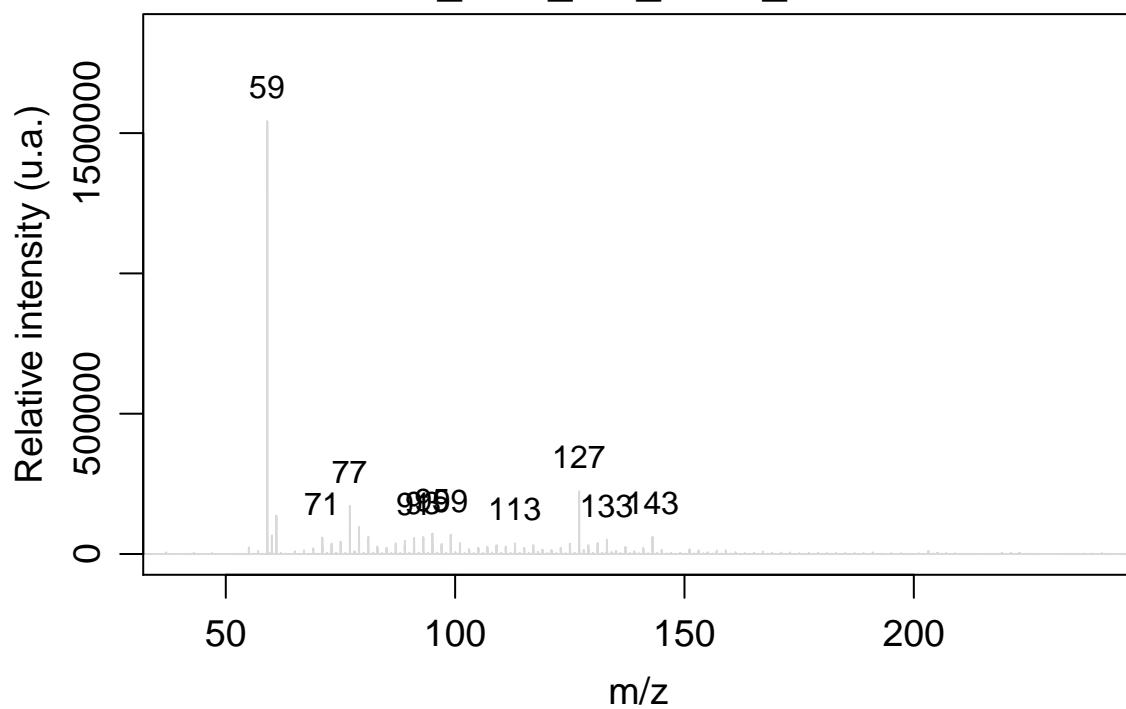
**s1\_Ch2\_!v2\_c075\_n297**



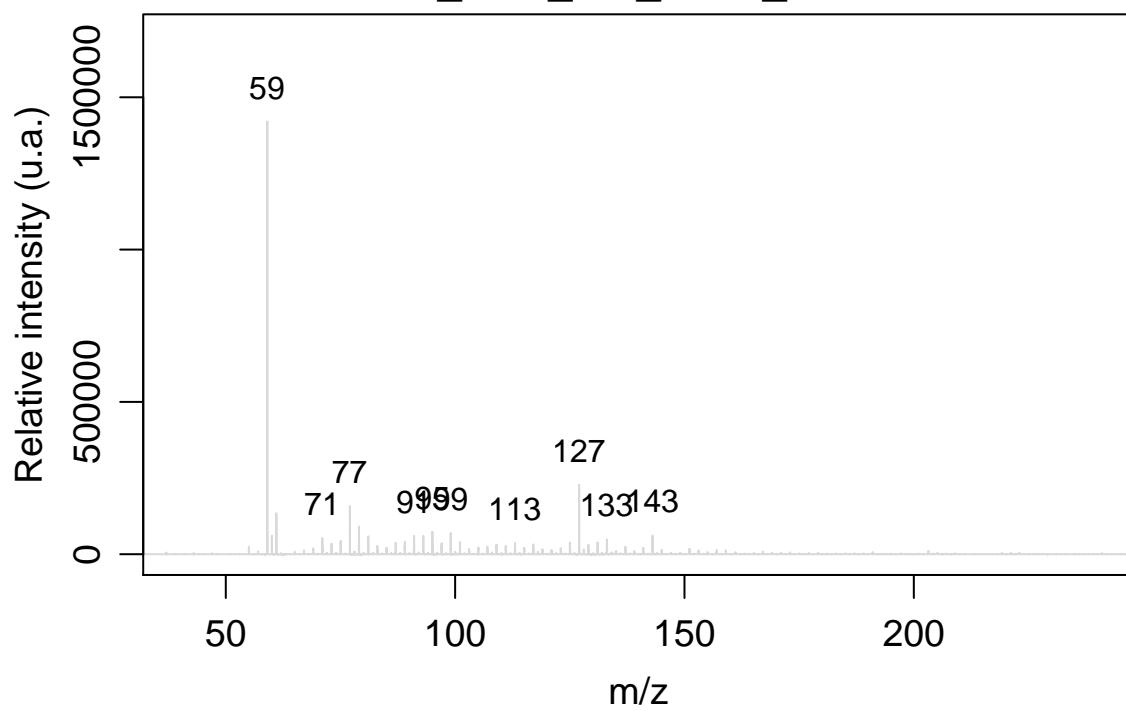
**s1\_Ch2\_!v2\_c077\_n305**



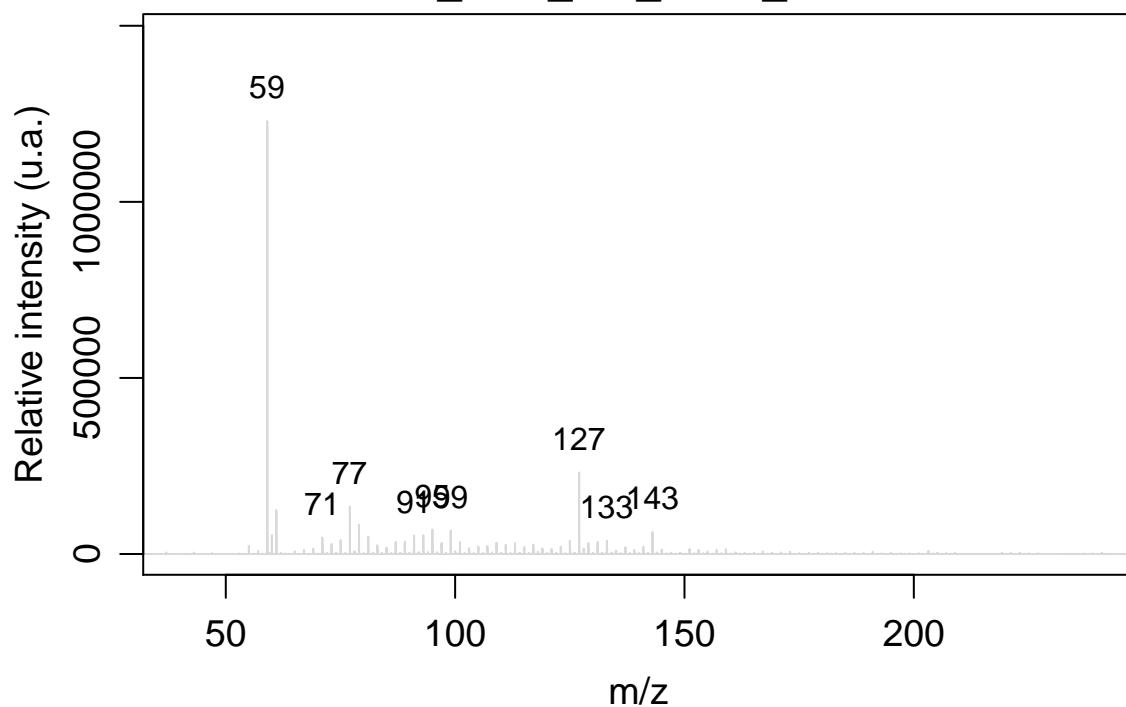
**s1\_Ch2\_!v2\_c079\_n313**



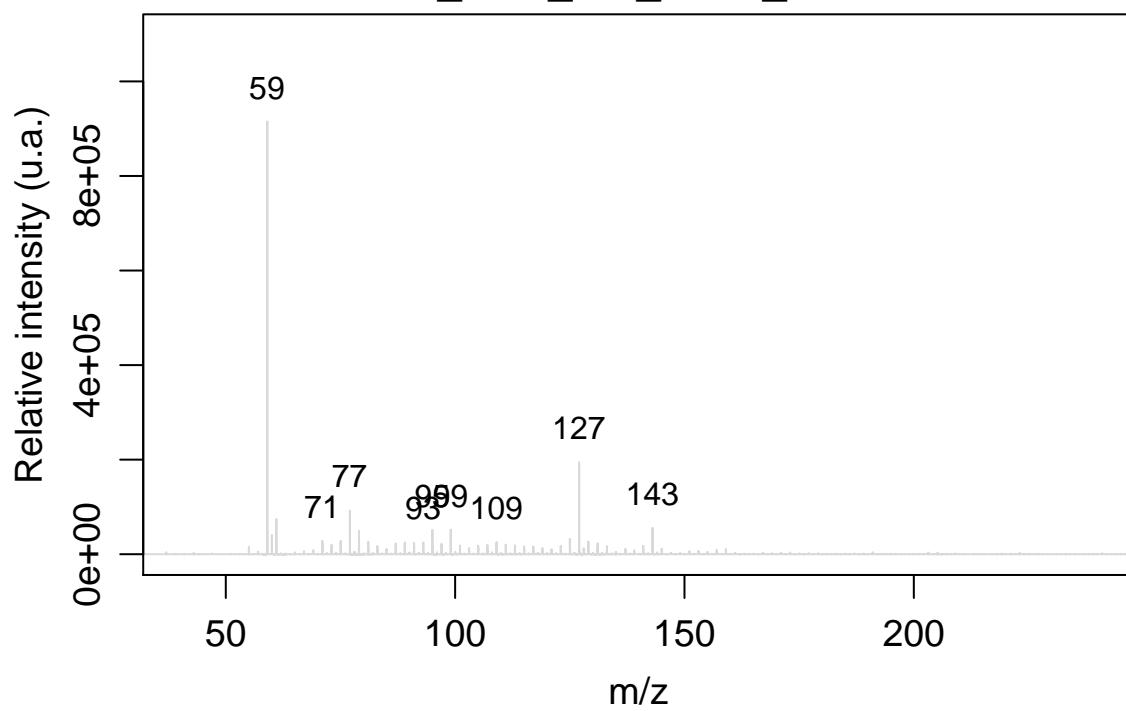
**s1\_Ch2\_!v2\_c081\_n321**



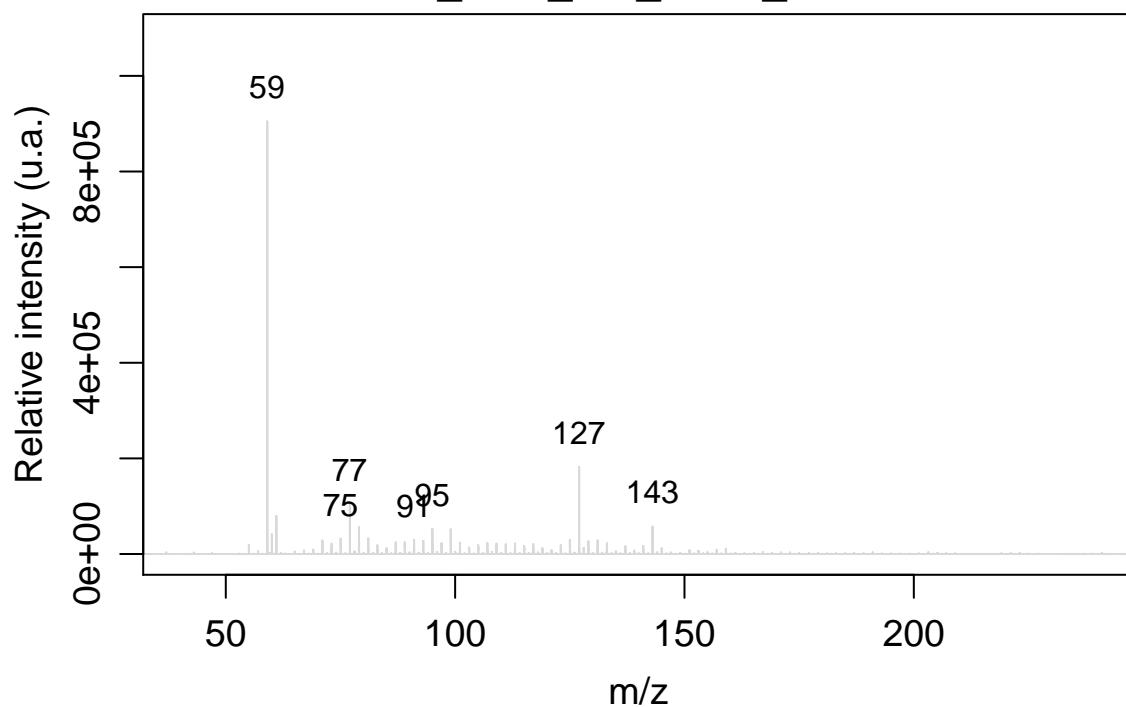
**s1\_Ch2\_!v2\_c083\_n329**



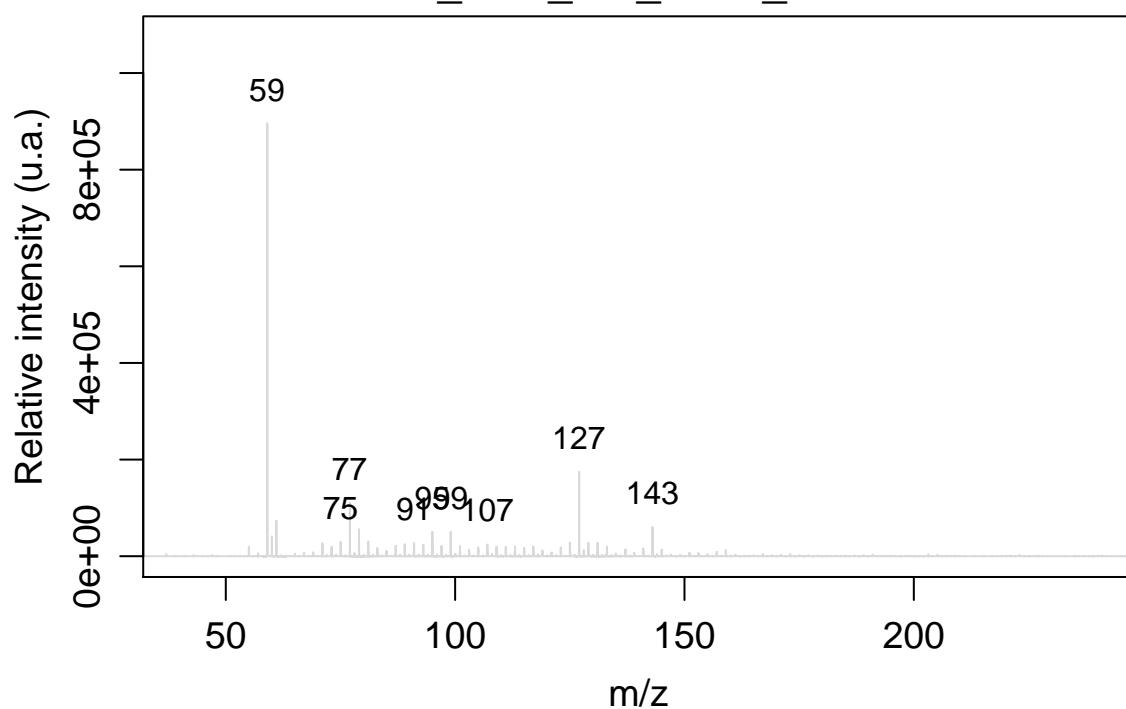
**s1\_Ch2\_!v2\_c085\_n337**



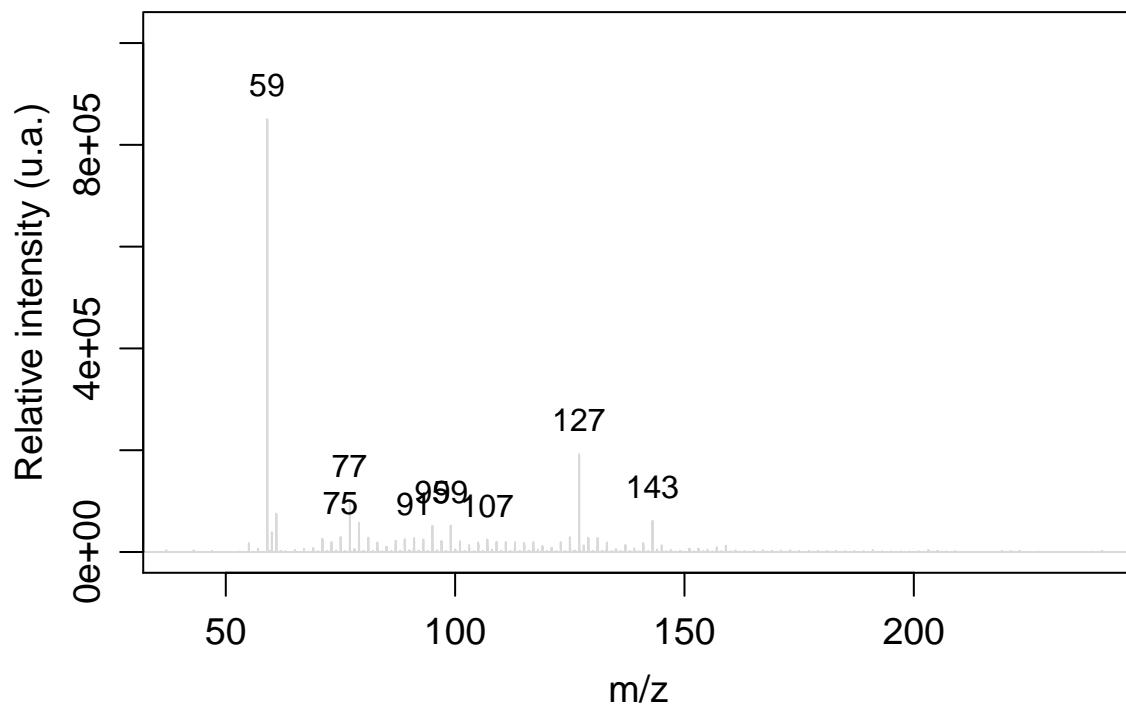
**s1\_Ch2\_!v2\_c087\_n345**



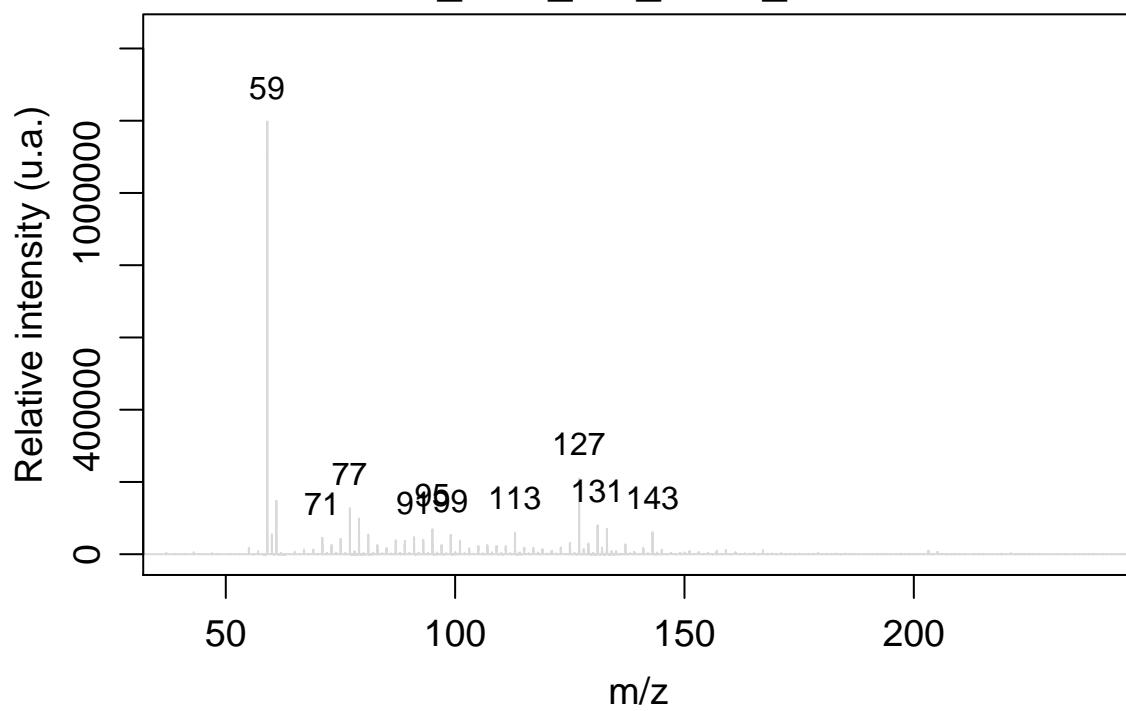
**s1\_Ch2\_!v2\_c089\_n353**



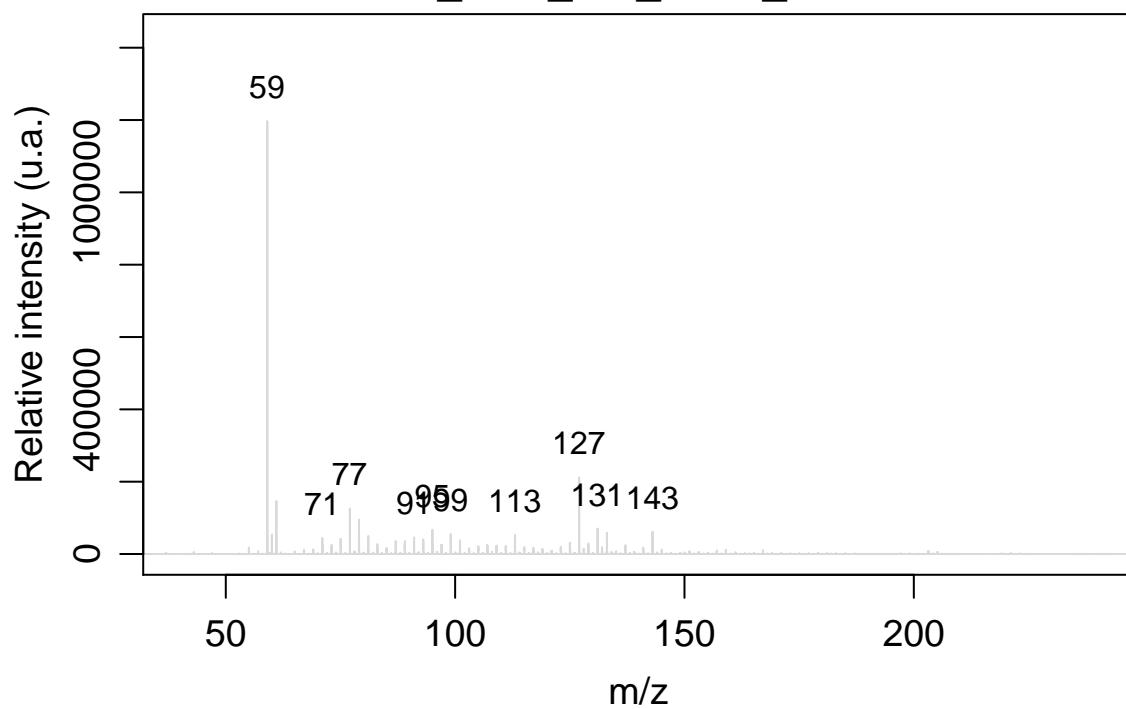
**s1\_Ch2\_!v2\_c091\_n361**



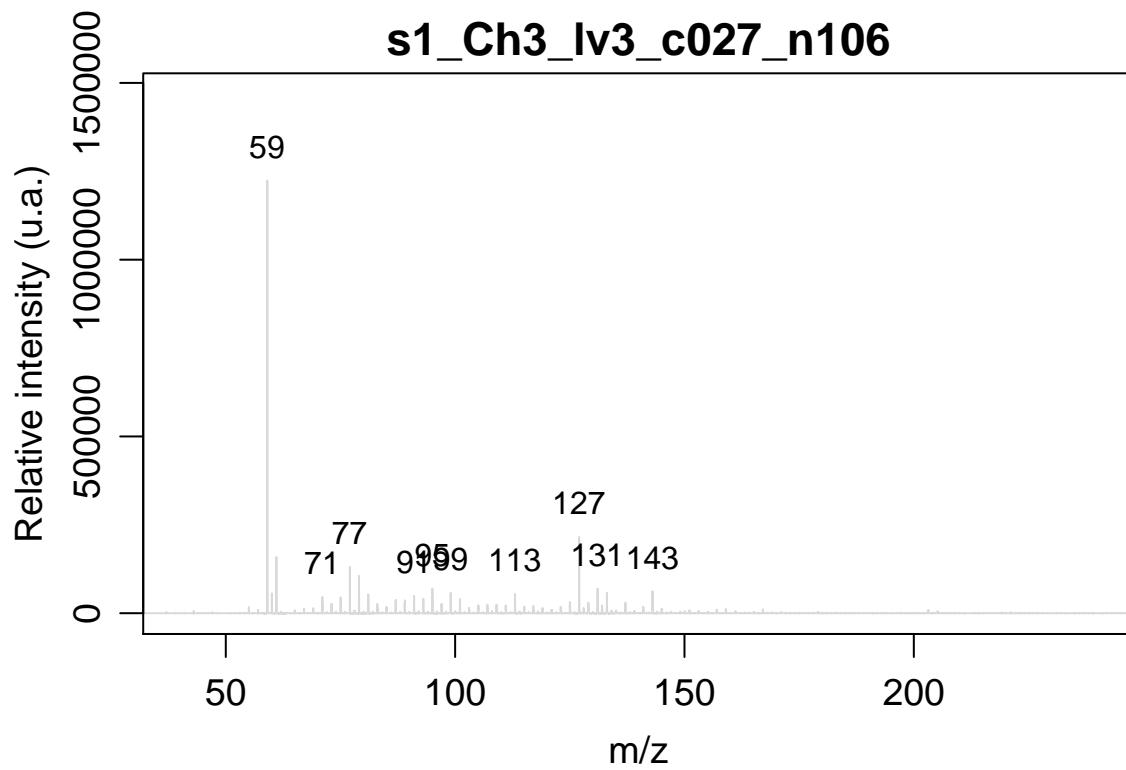
**s1\_Ch3\_!v3\_c023\_n090**



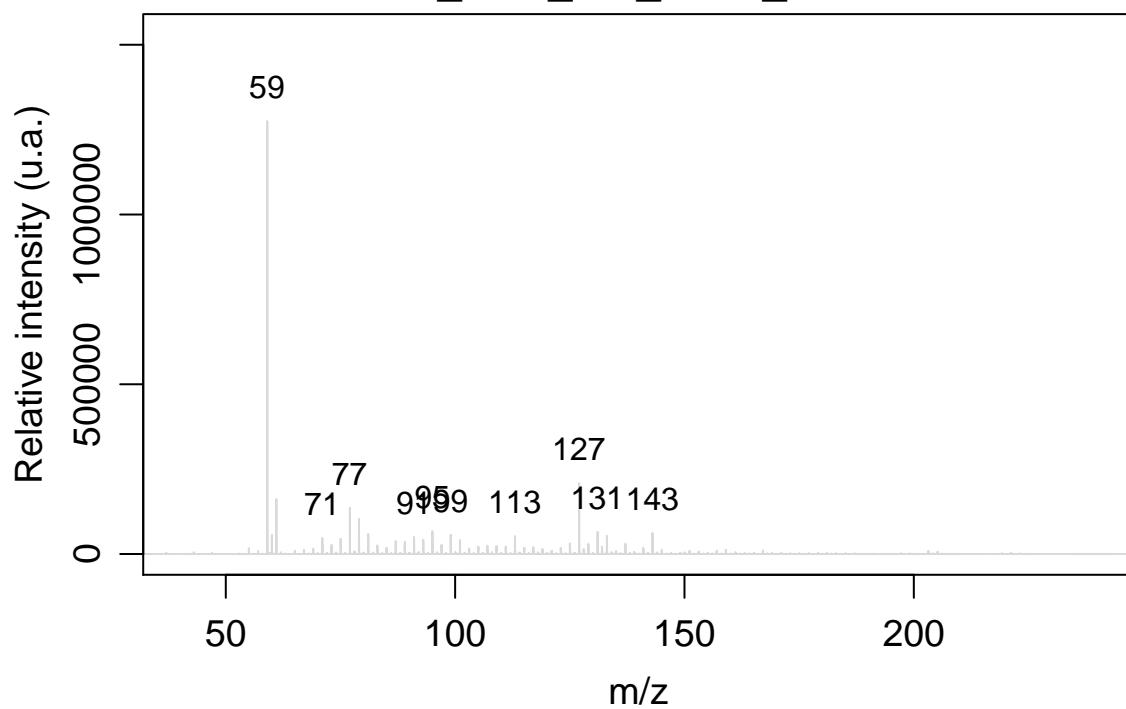
**s1\_Ch3\_1v3\_c025\_n098**



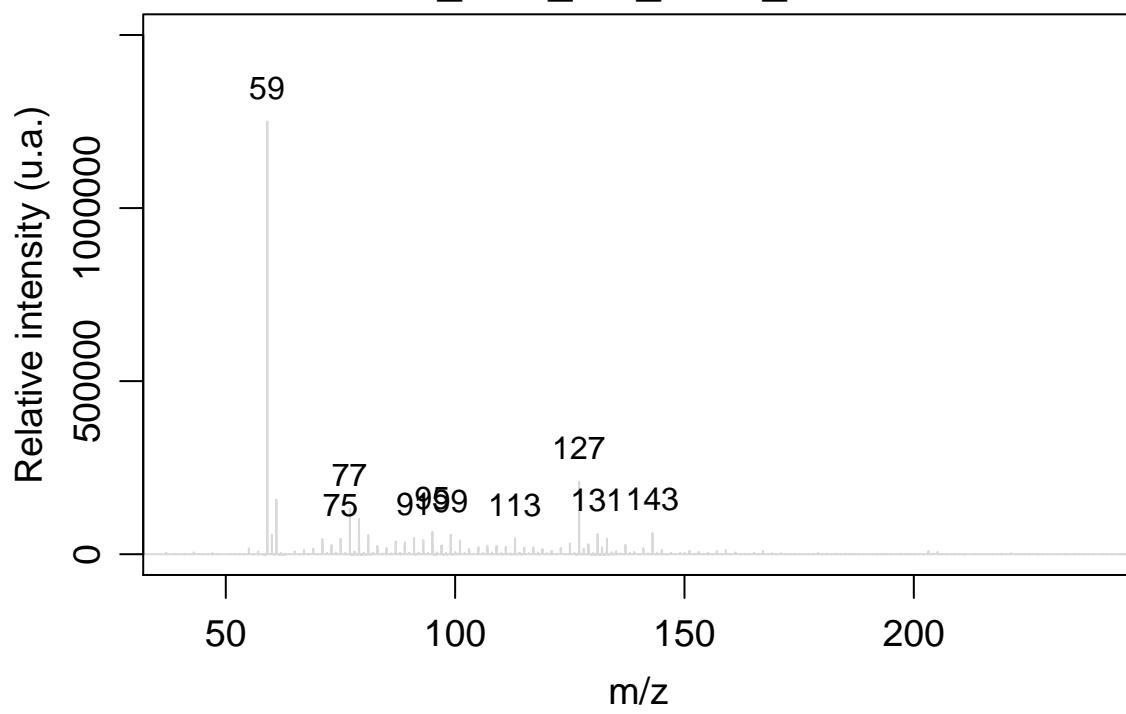
**s1\_Ch3\_1v3\_c027\_n106**



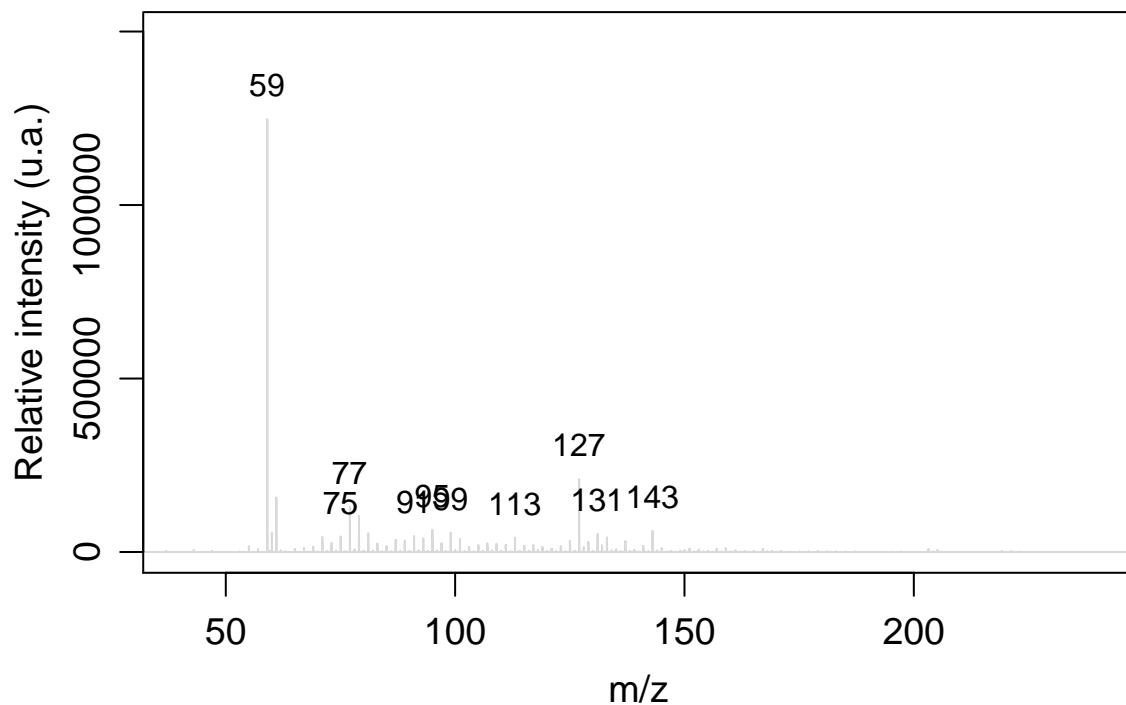
**s1\_Ch3\_!v3\_c029\_n114**



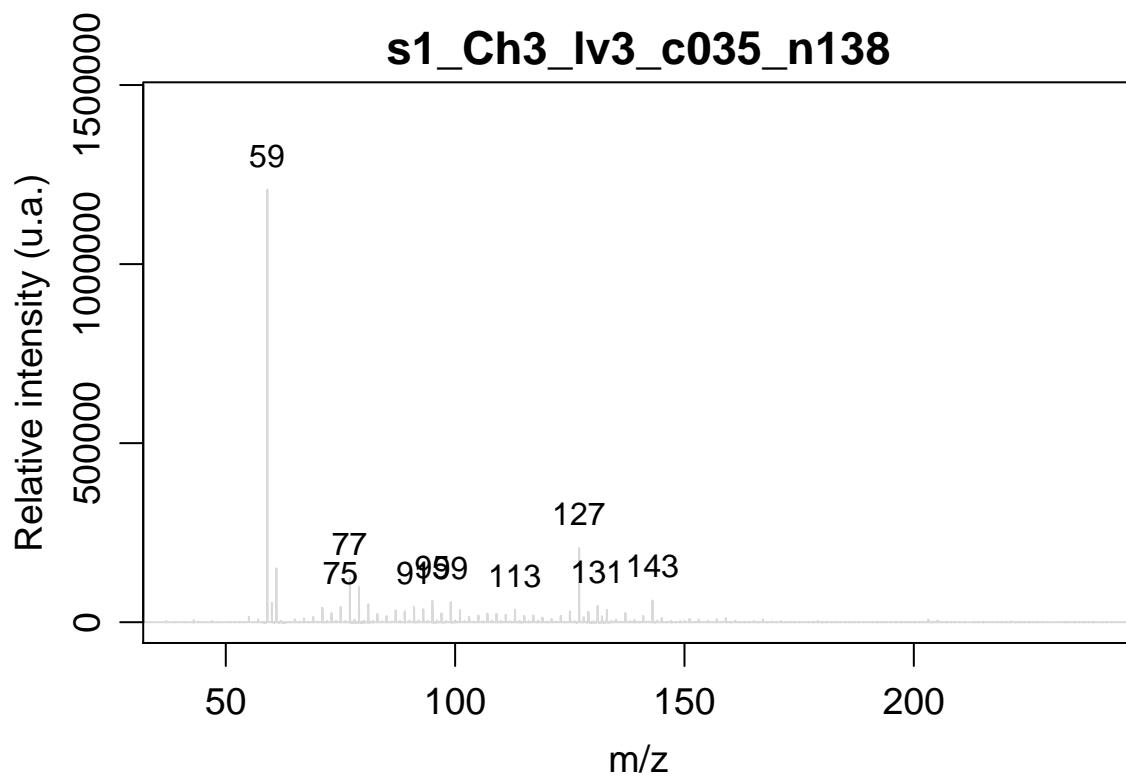
**s1\_Ch3\_!v3\_c031\_n122**



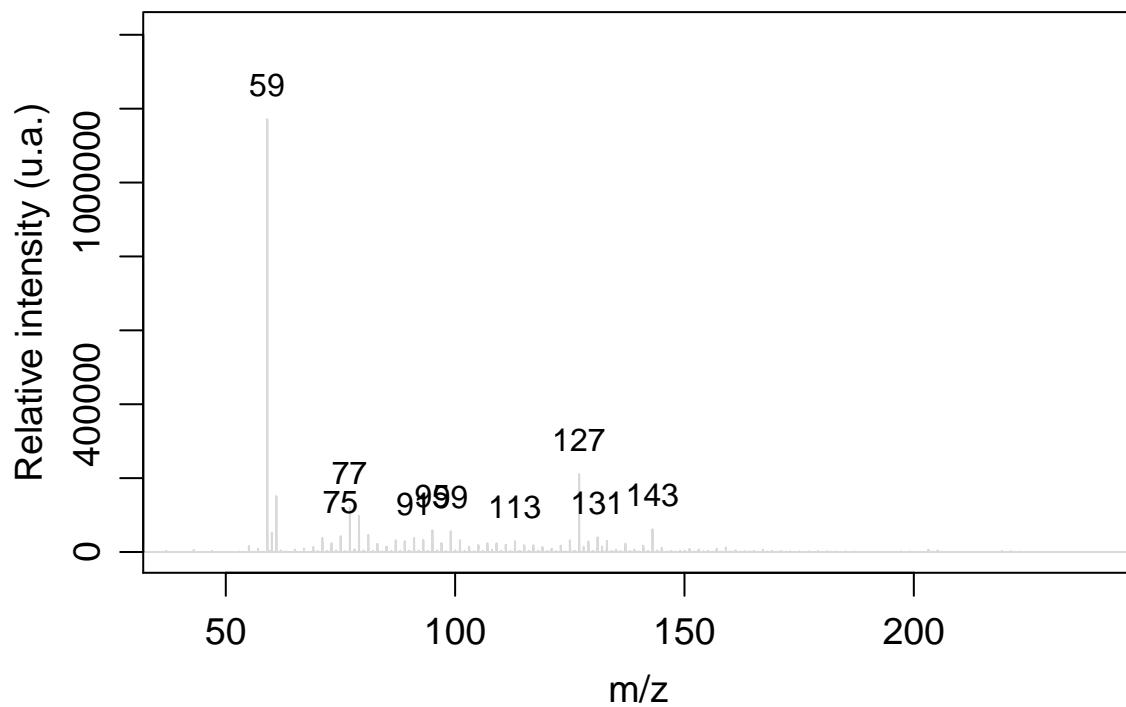
**s1\_Ch3\_!v3\_c033\_n130**



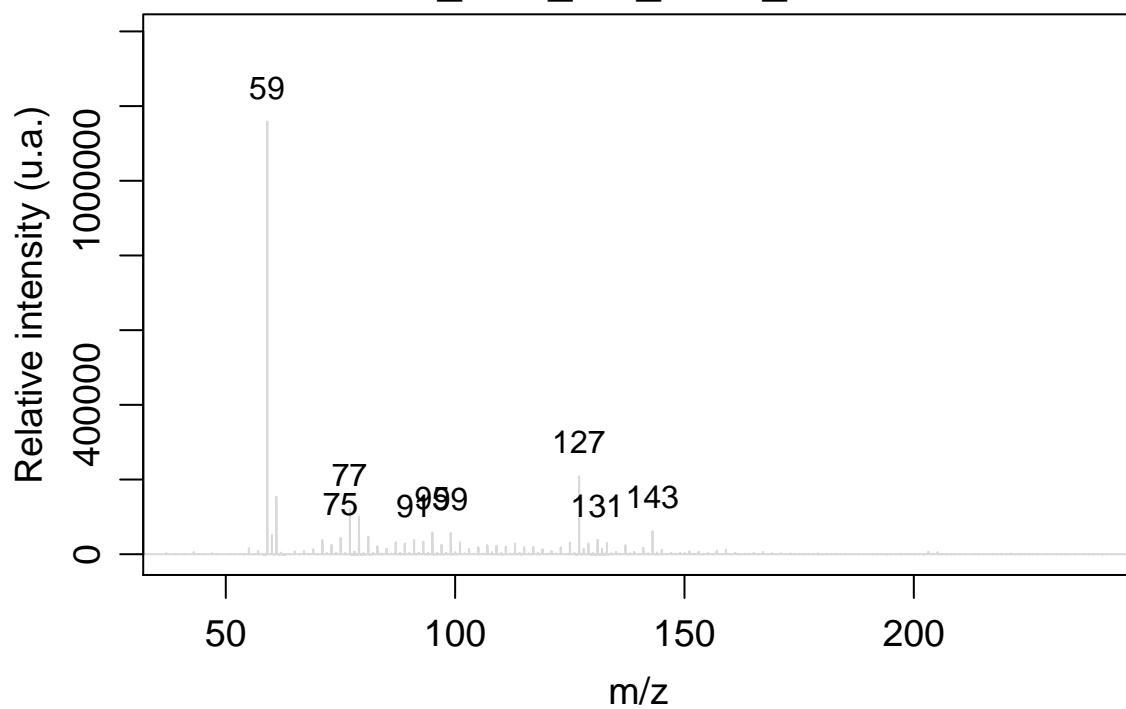
**s1\_Ch3\_!v3\_c035\_n138**



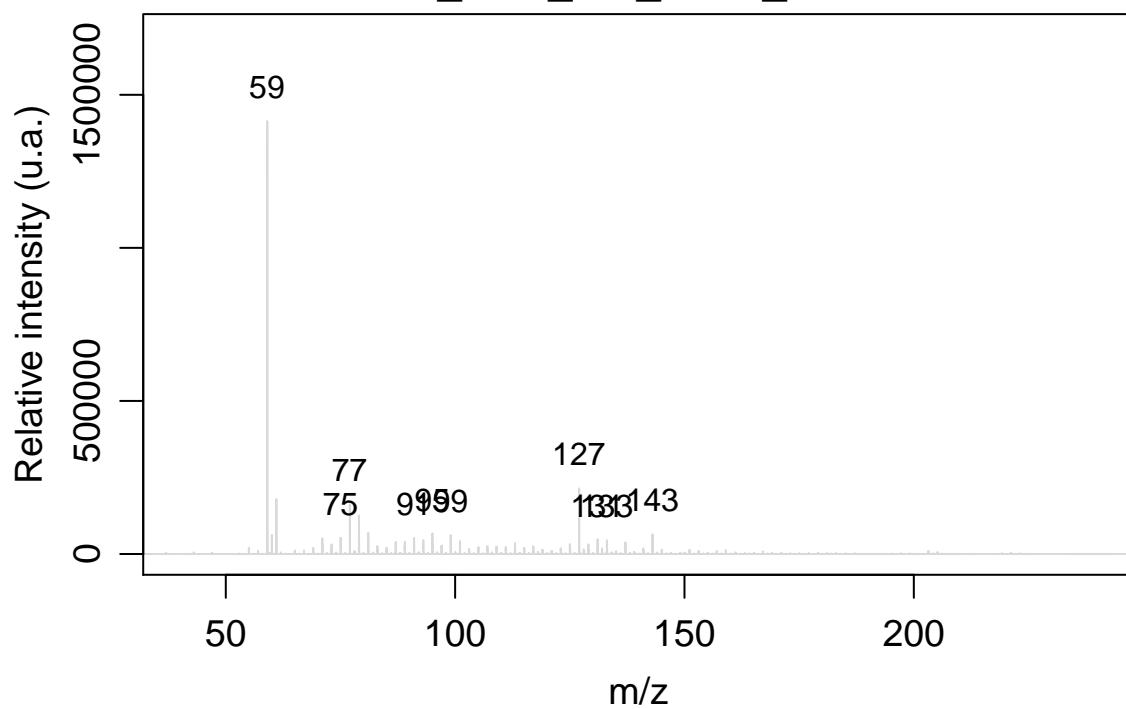
**s1\_Ch3\_!v3\_c037\_n146**



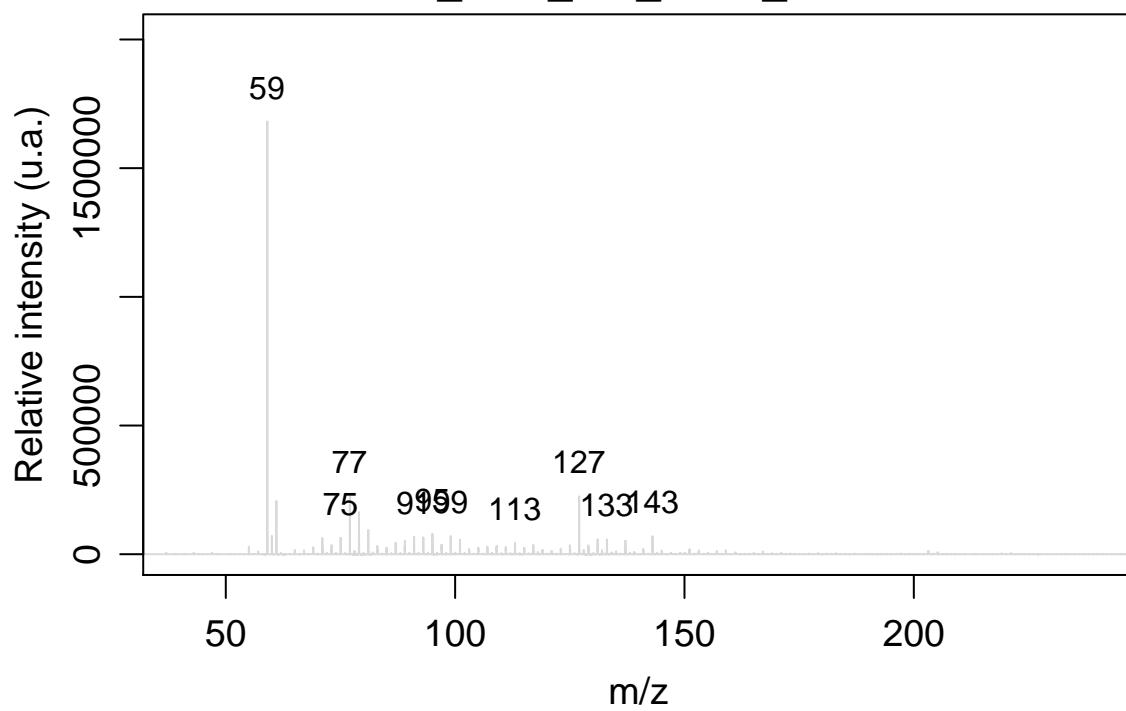
**s1\_Ch3\_!v3\_c039\_n154**



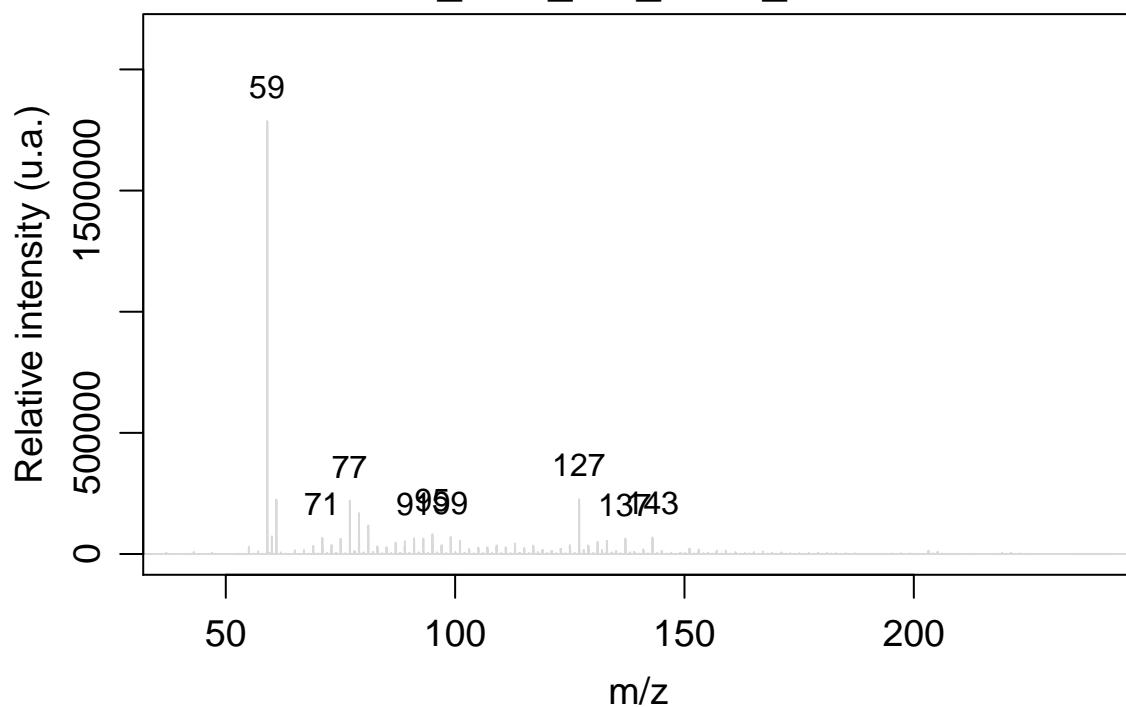
**s1\_Ch3\_!v3\_c041\_n162**



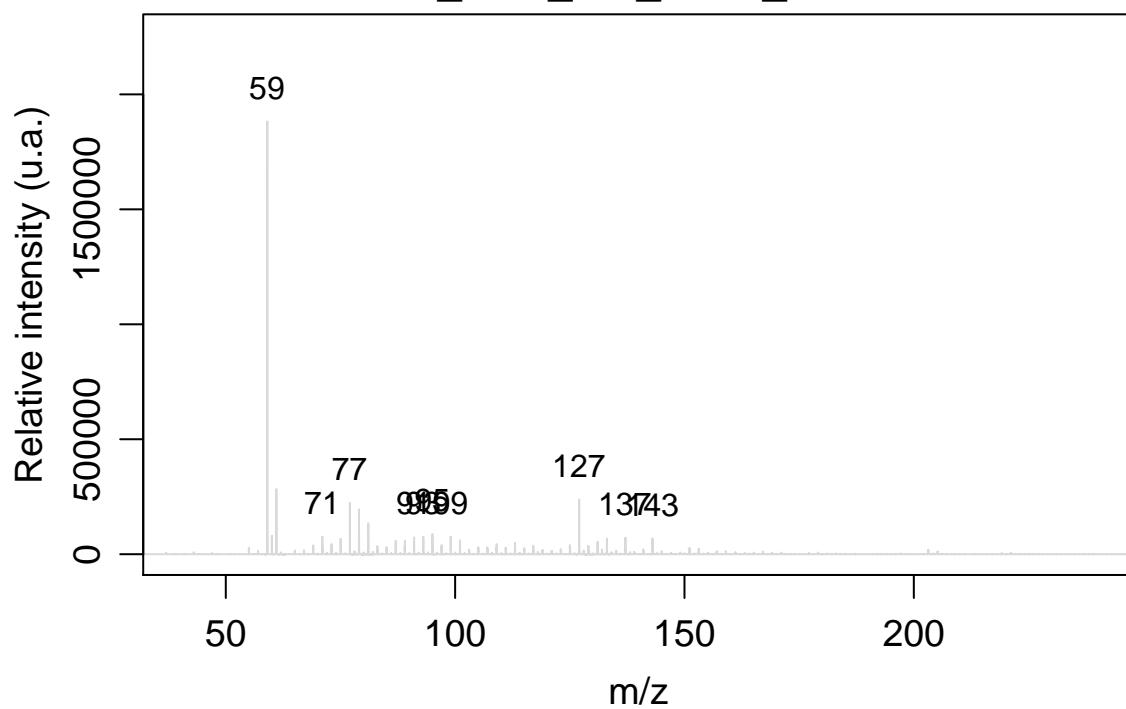
**s1\_Ch3\_!v3\_c043\_n170**



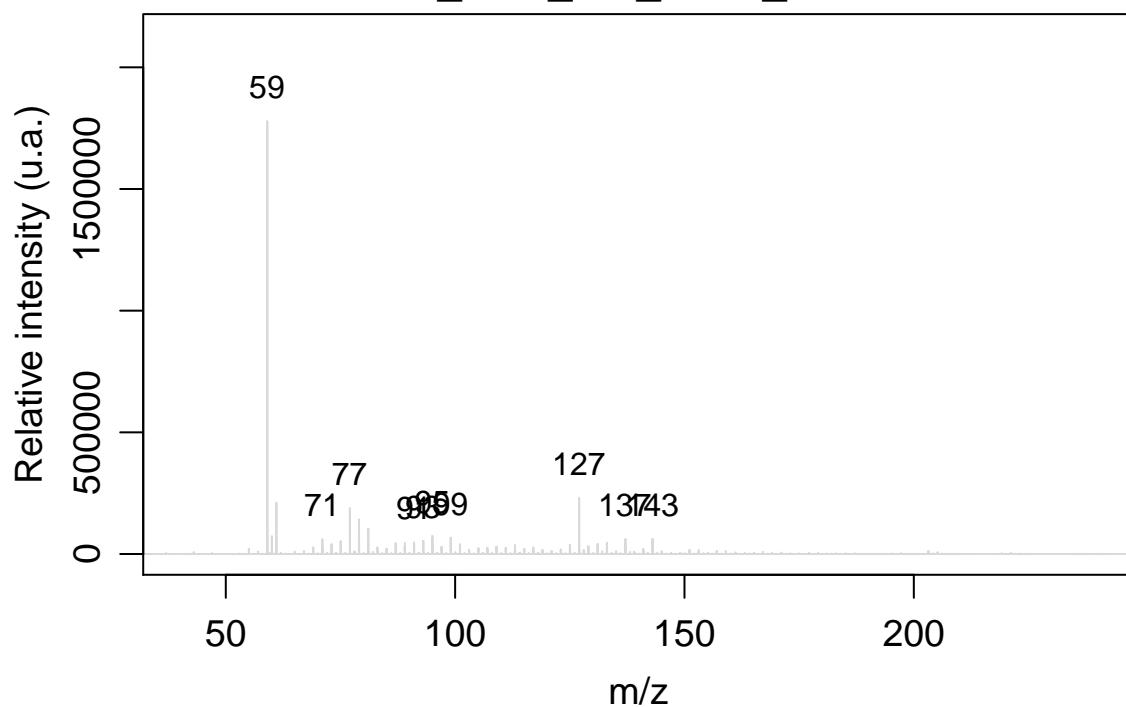
**s1\_Ch3\_1v3\_c045\_n178**



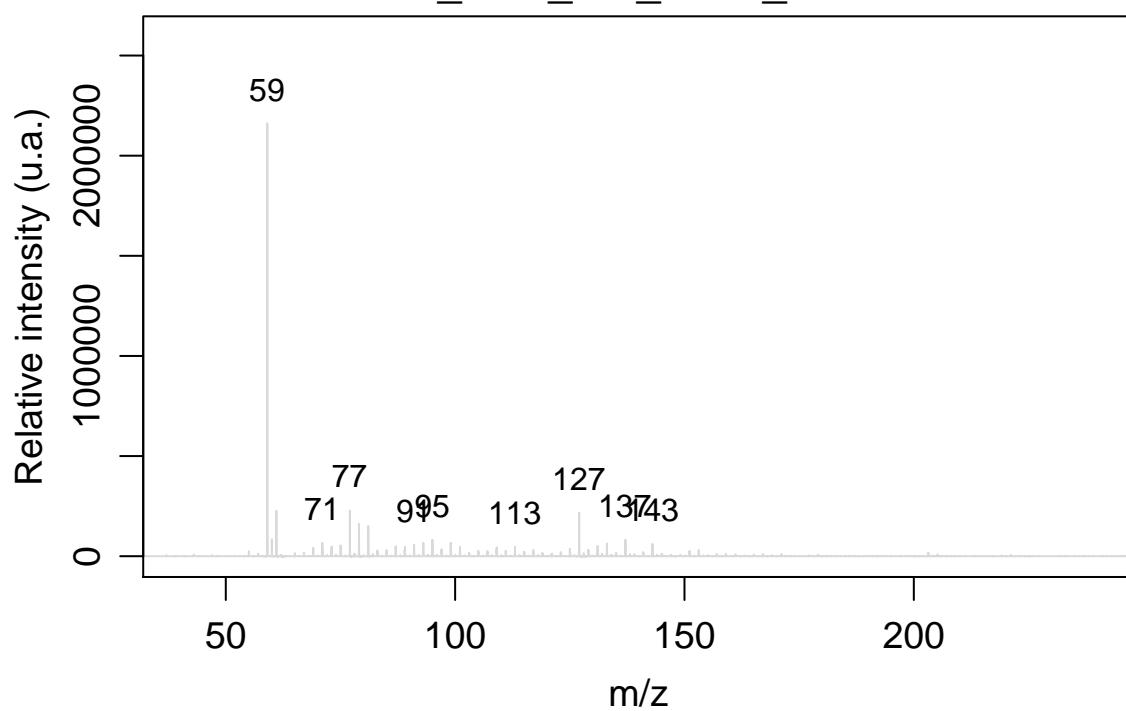
**s1\_Ch3\_1v3\_c047\_n186**



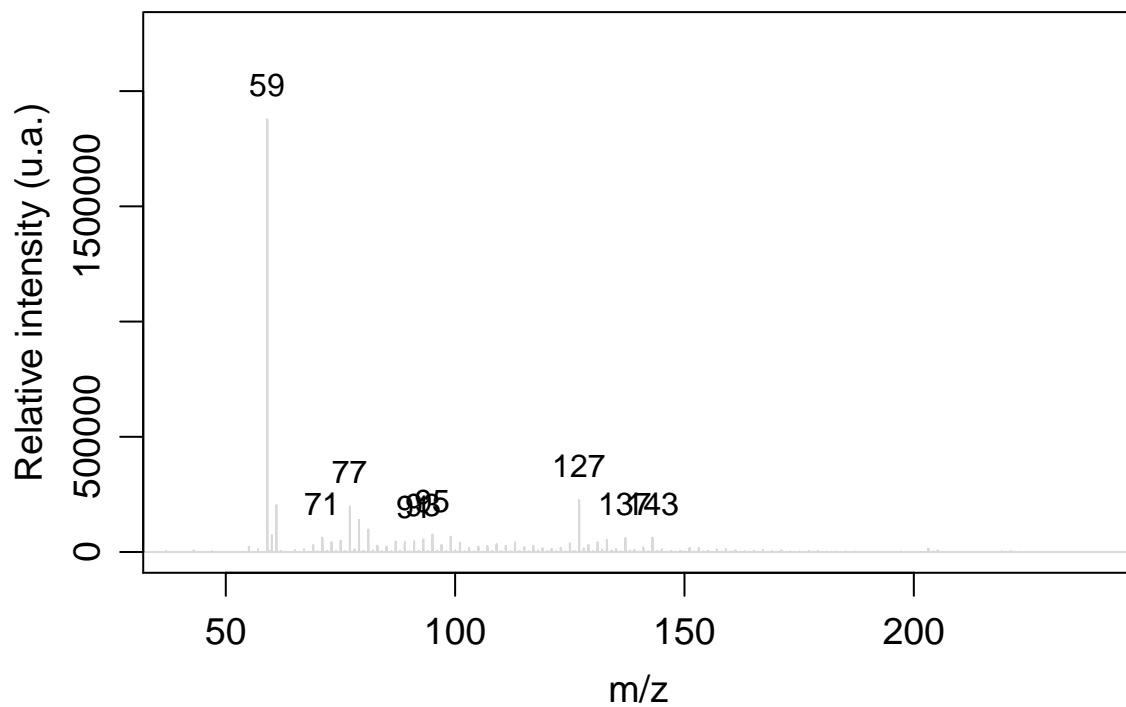
**s1\_Ch3\_!v3\_c049\_n194**



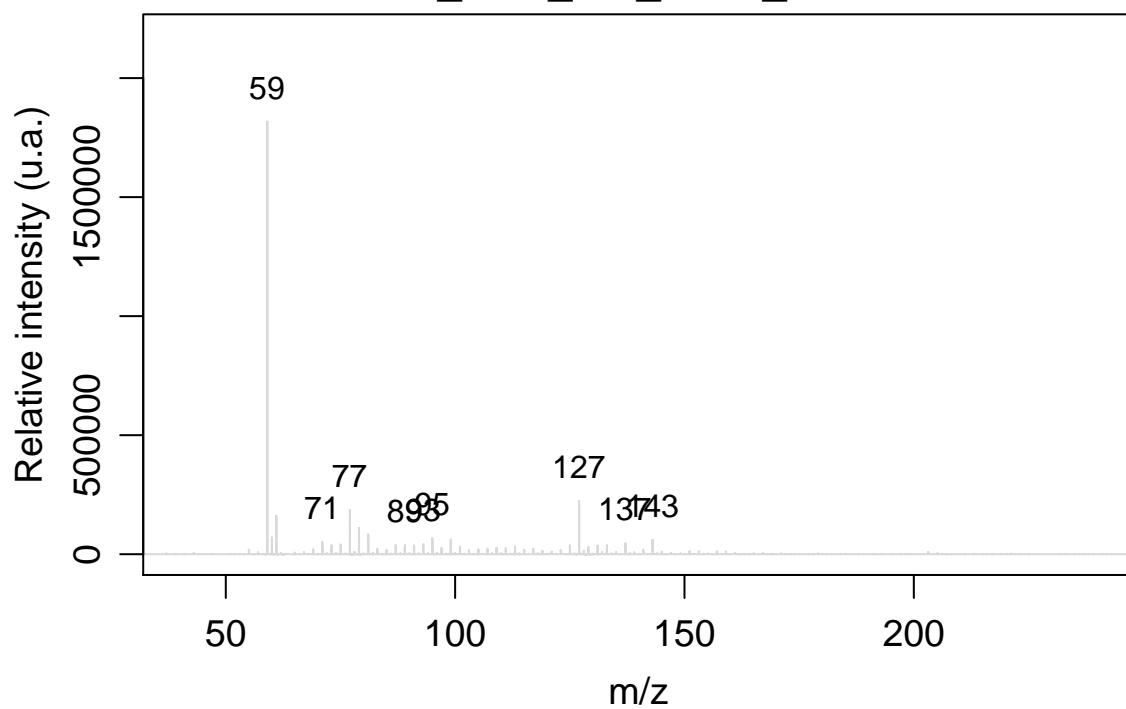
**s1\_Ch3\_!v3\_c051\_n202**



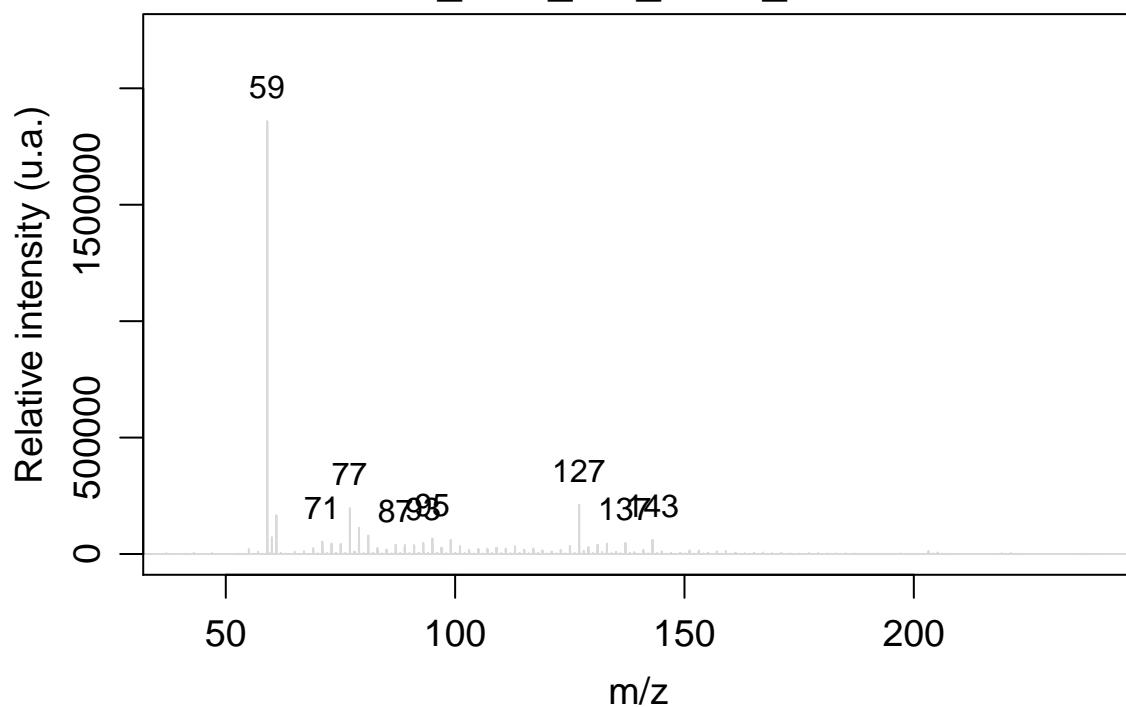
**s1\_Ch3\_1v3\_c053\_n210**



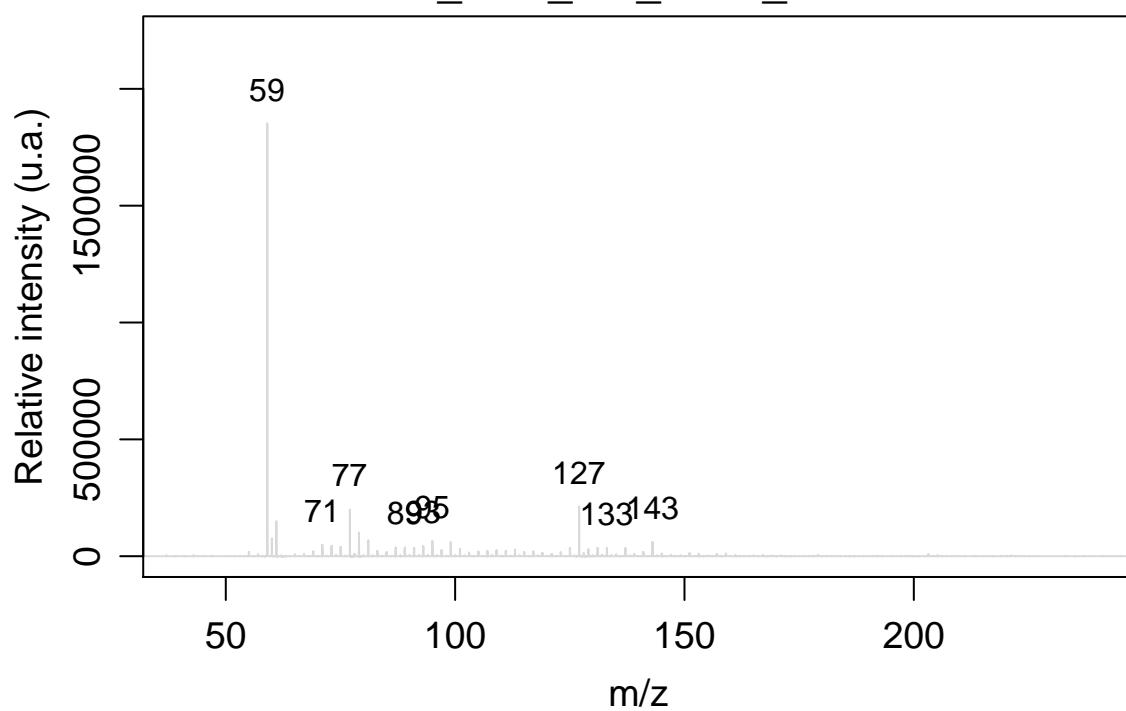
**s1\_Ch3\_1v3\_c055\_n218**



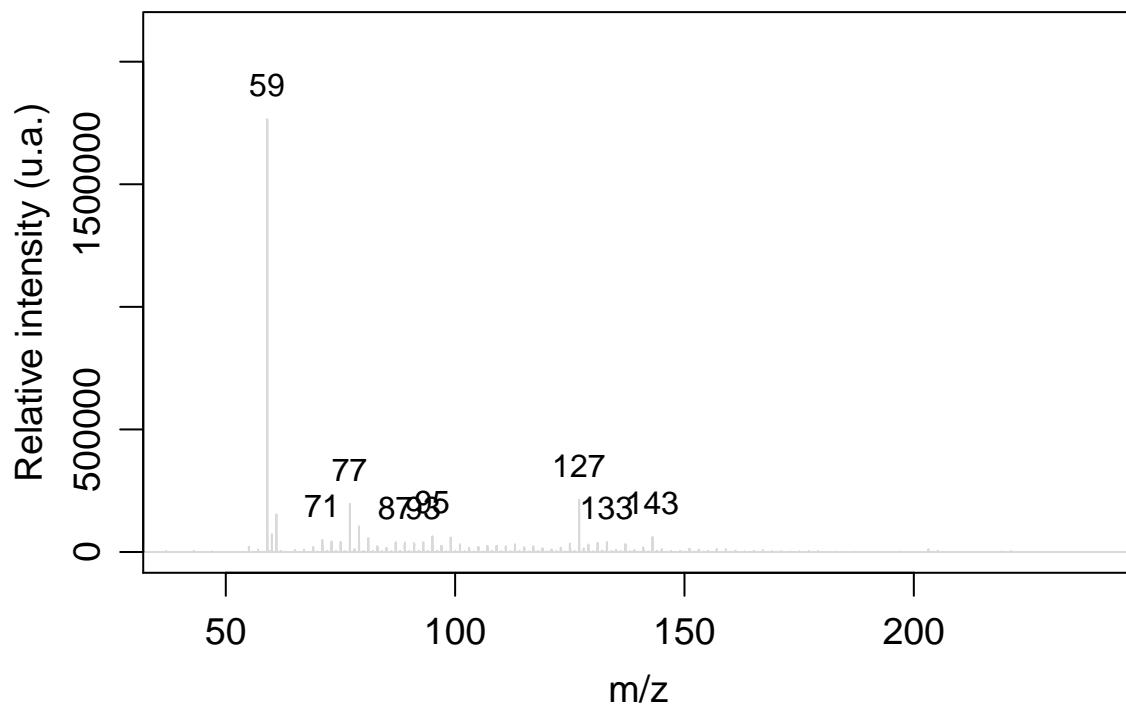
**s1\_Ch3\_!v3\_c057\_n226**



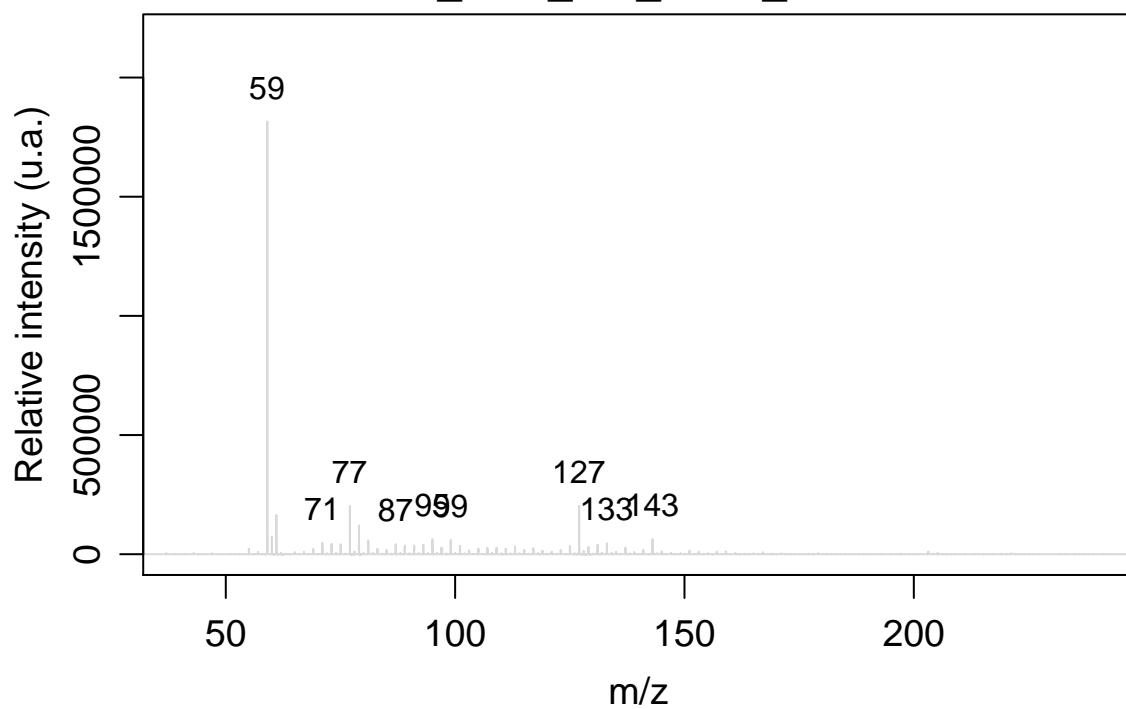
**s1\_Ch3\_!v3\_c059\_n234**



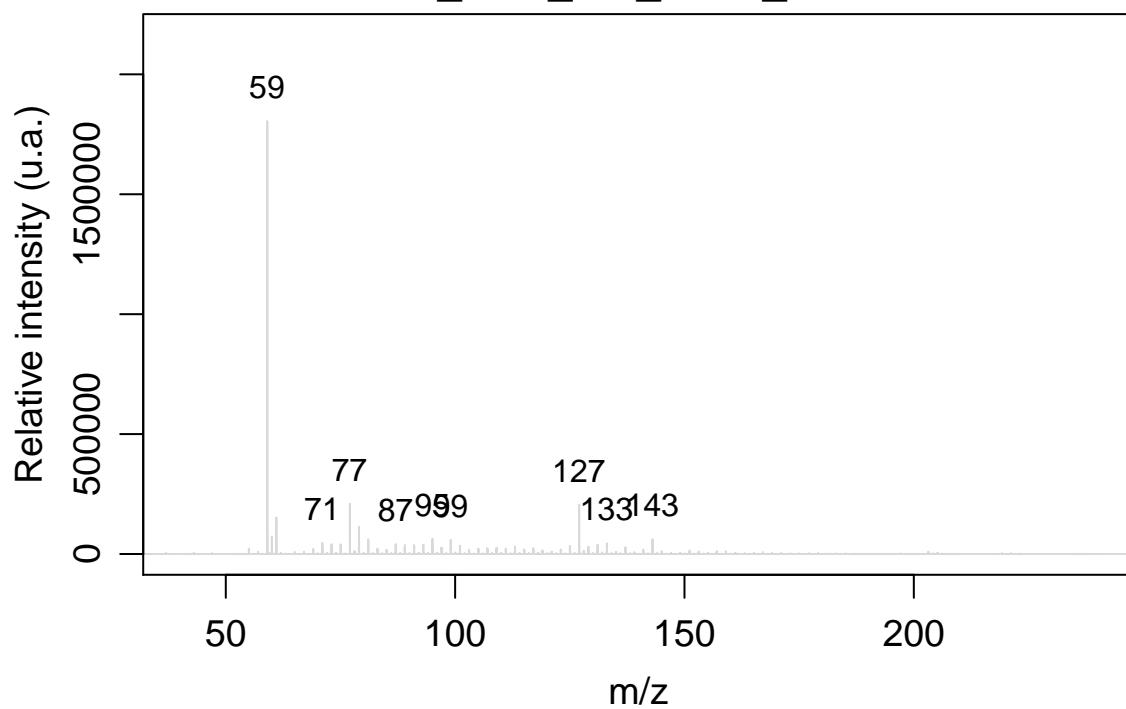
**s1\_Ch3\_1v3\_c061\_n242**



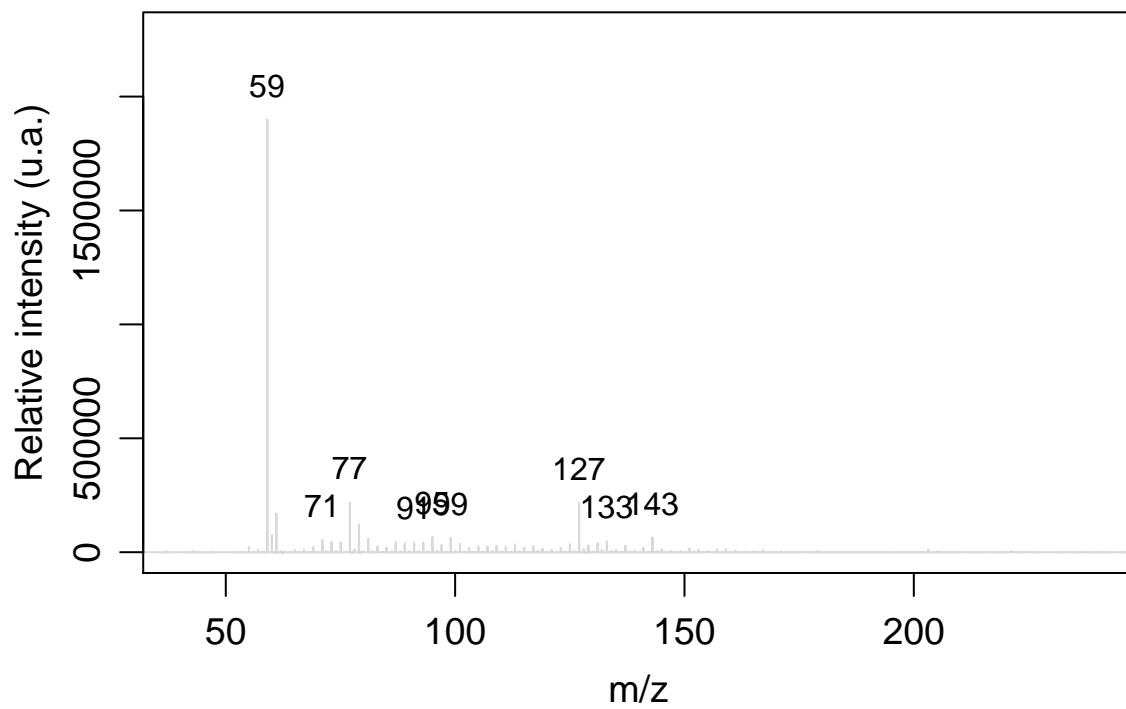
**s1\_Ch3\_1v3\_c063\_n250**



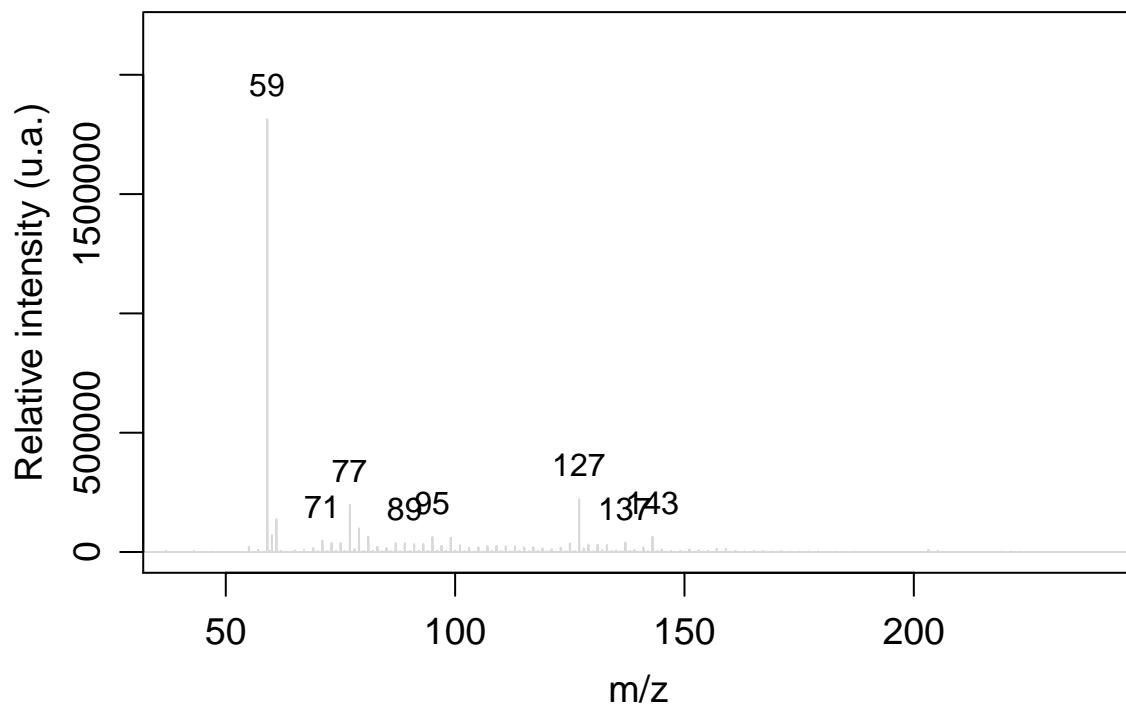
**s1\_Ch3\_1v3\_c065\_n258**



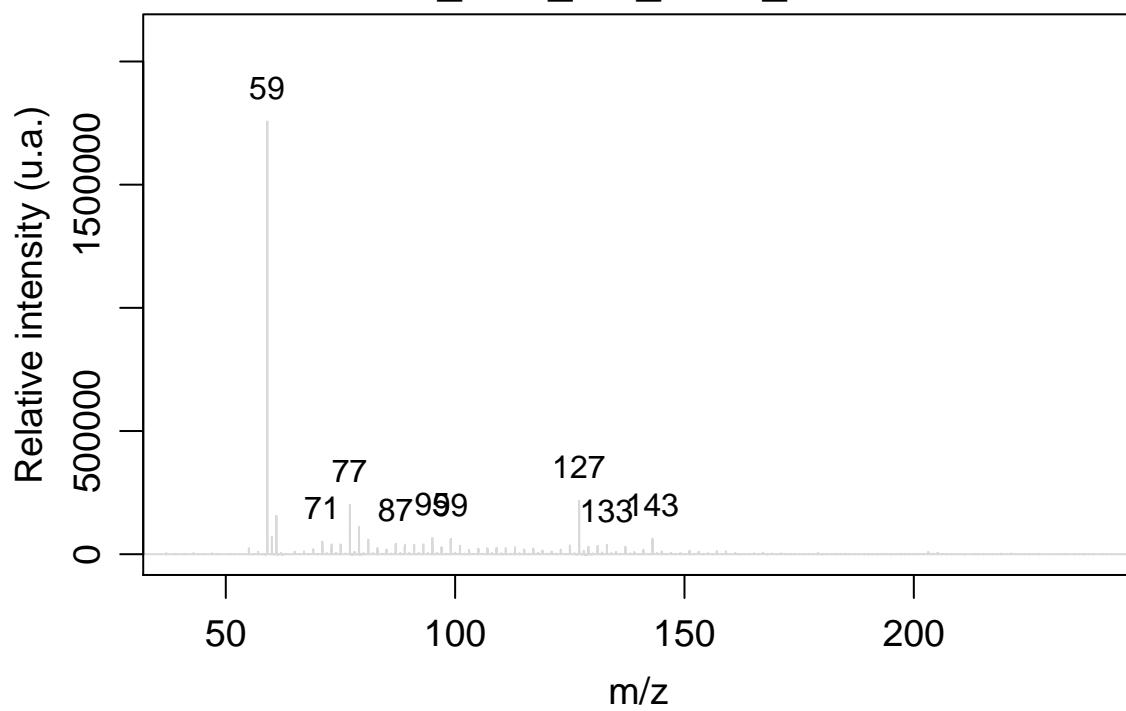
**s1\_Ch3\_1v3\_c067\_n266**



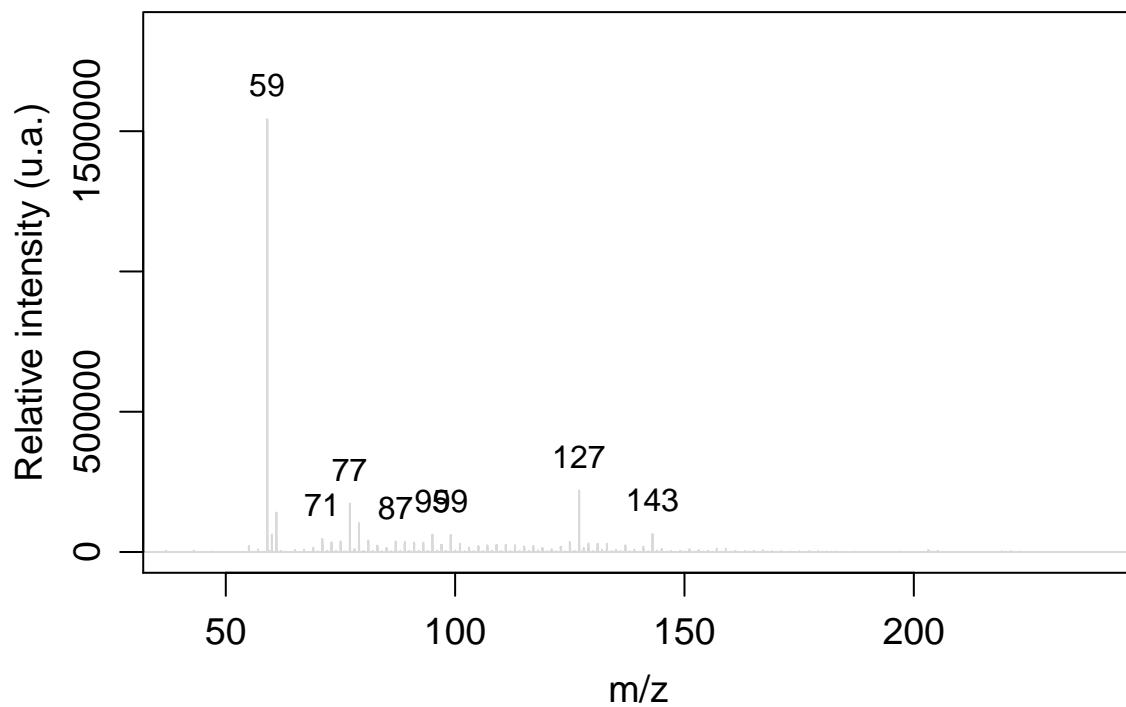
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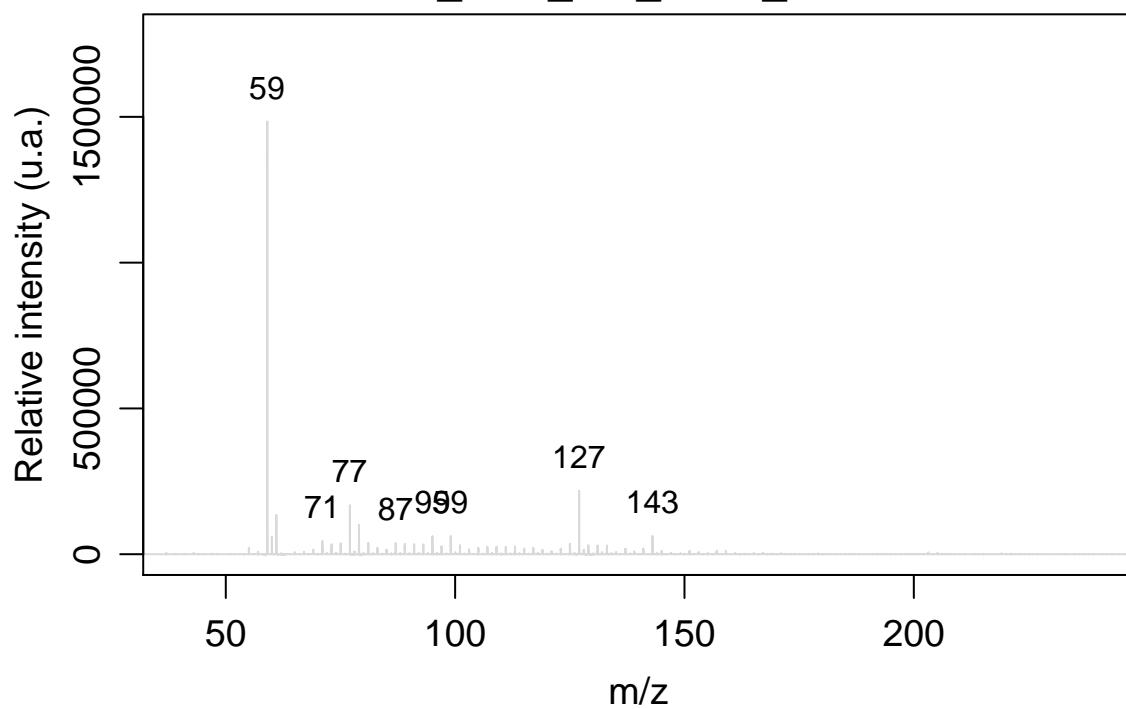
**s1\_Ch3\_1v3\_c071\_n282**



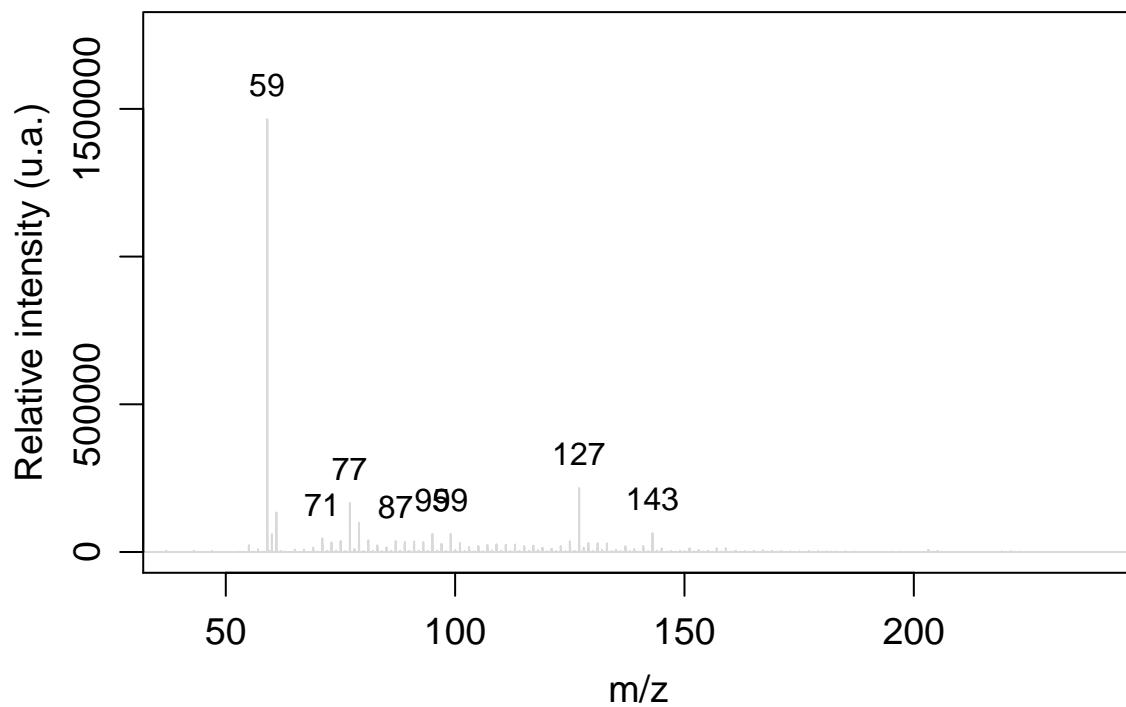
**s1\_Ch3\_1v3\_c073\_n290**



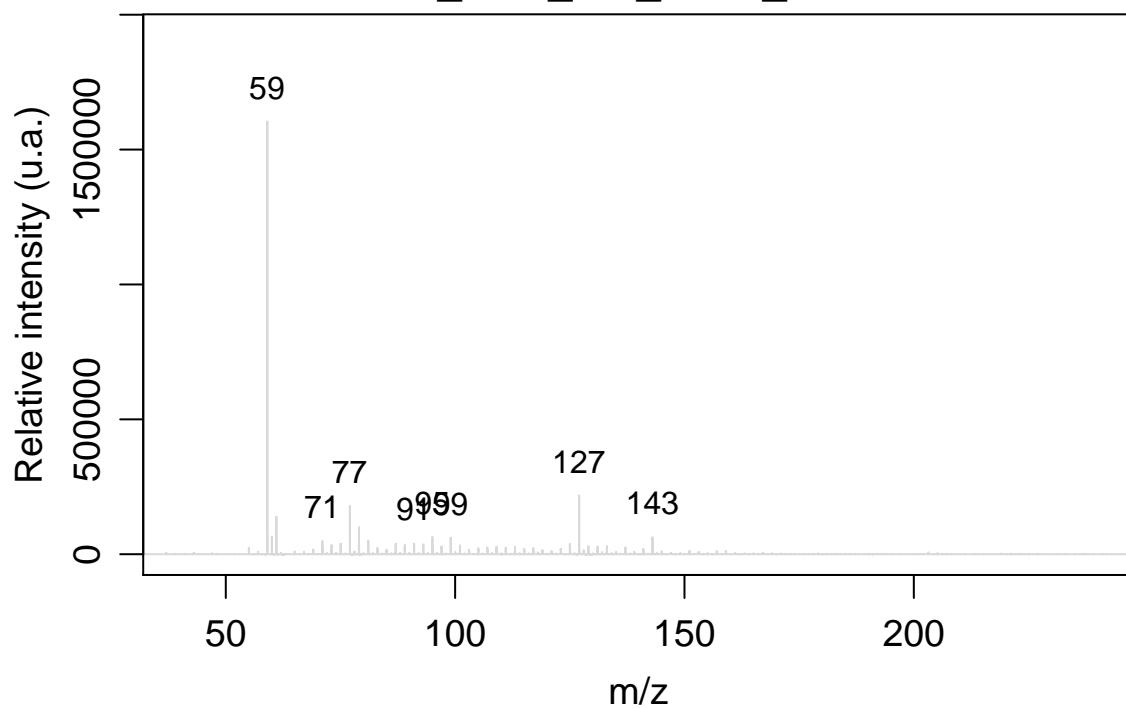
**s1\_Ch3\_1v3\_c075\_n298**



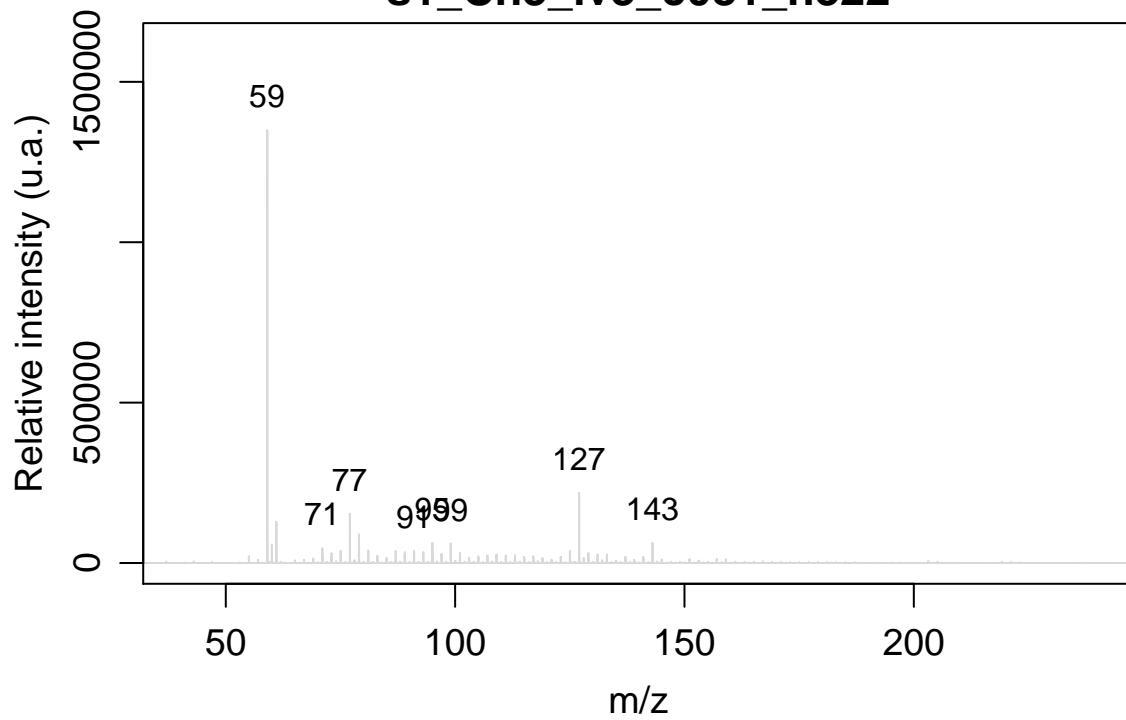
**s1\_Ch3\_1v3\_c077\_n306**



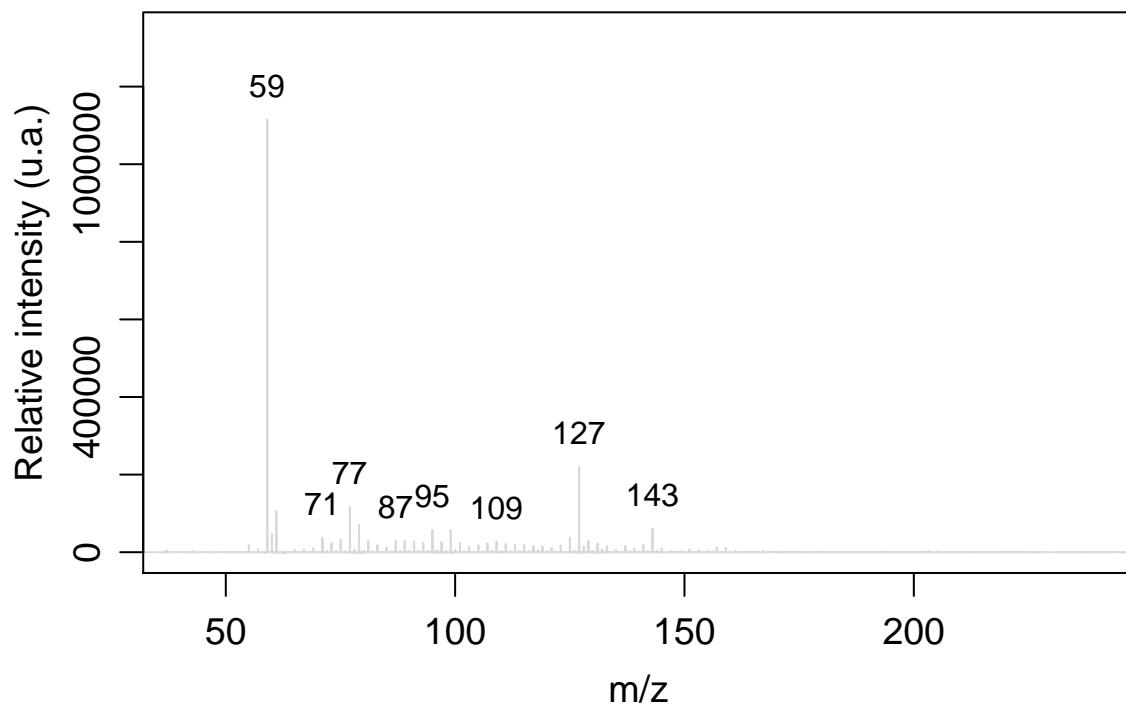
**s1\_Ch3\_1v3\_c079\_n314**



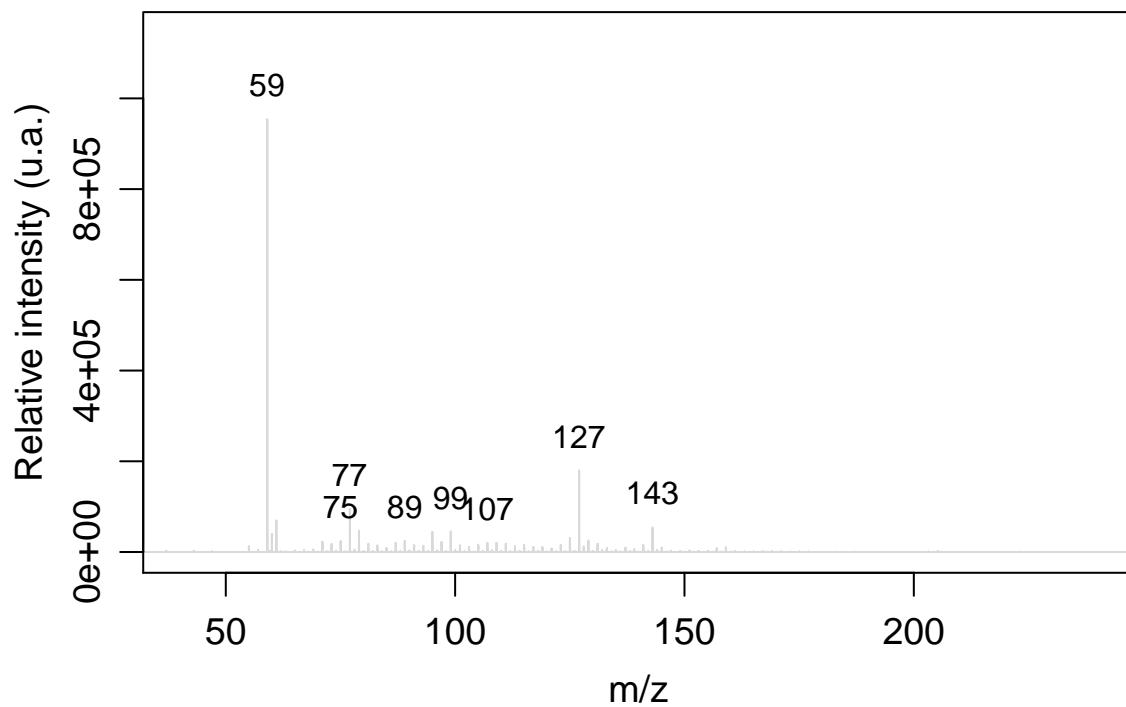
**s1\_Ch3\_1v3\_c081\_n322**



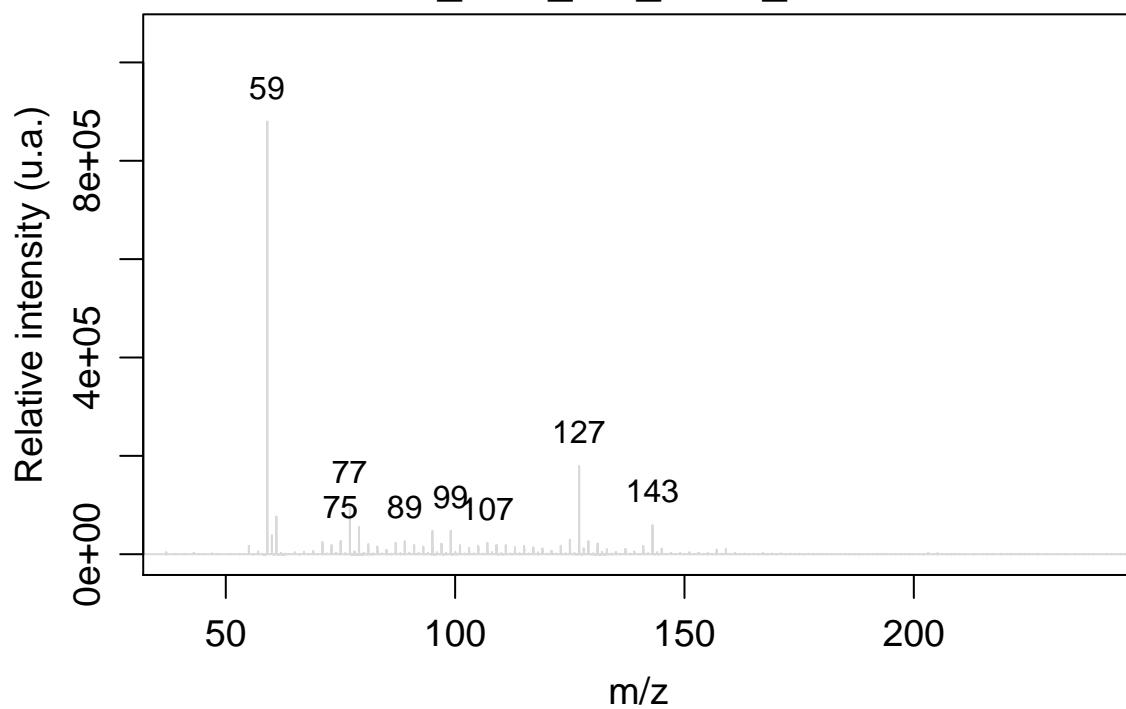
**s1\_Ch3\_1v3\_c083\_n330**



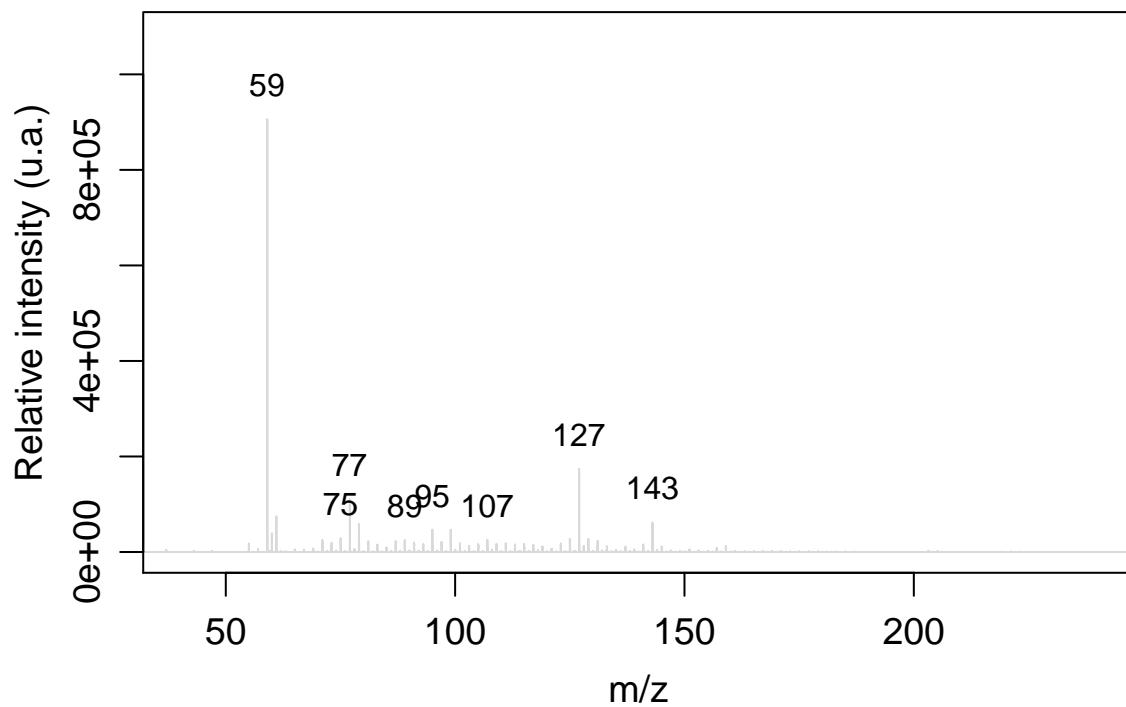
**s1\_Ch3\_1v3\_c085\_n338**



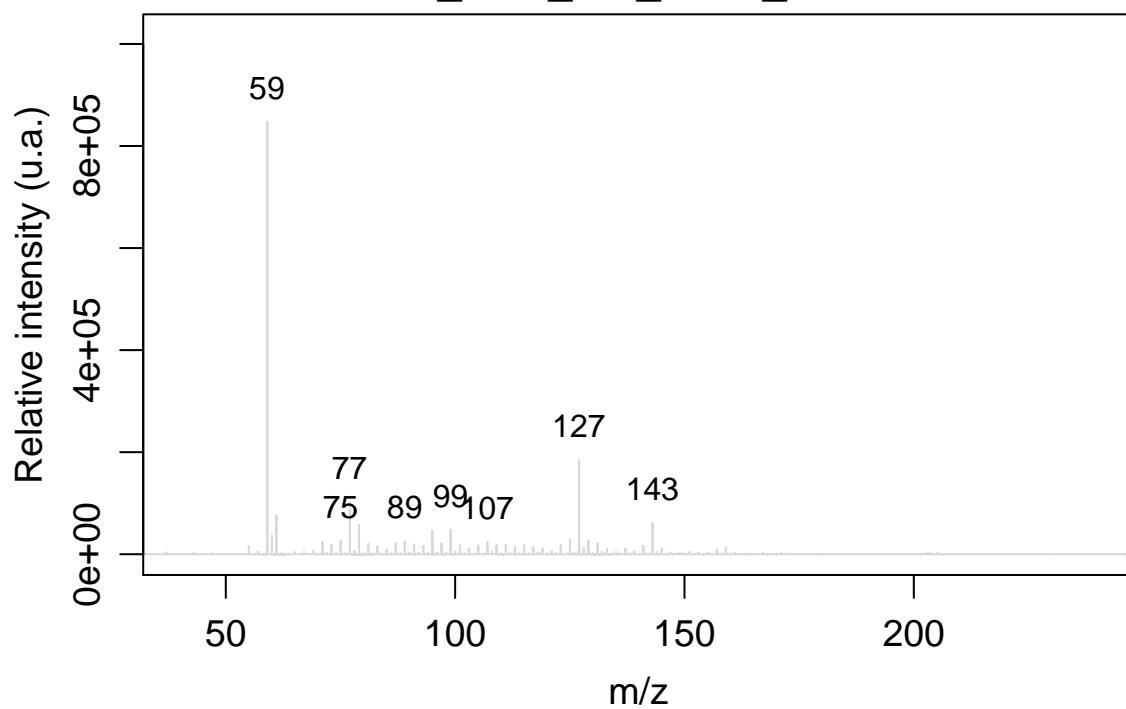
**s1\_Ch3\_1v3\_c087\_n346**



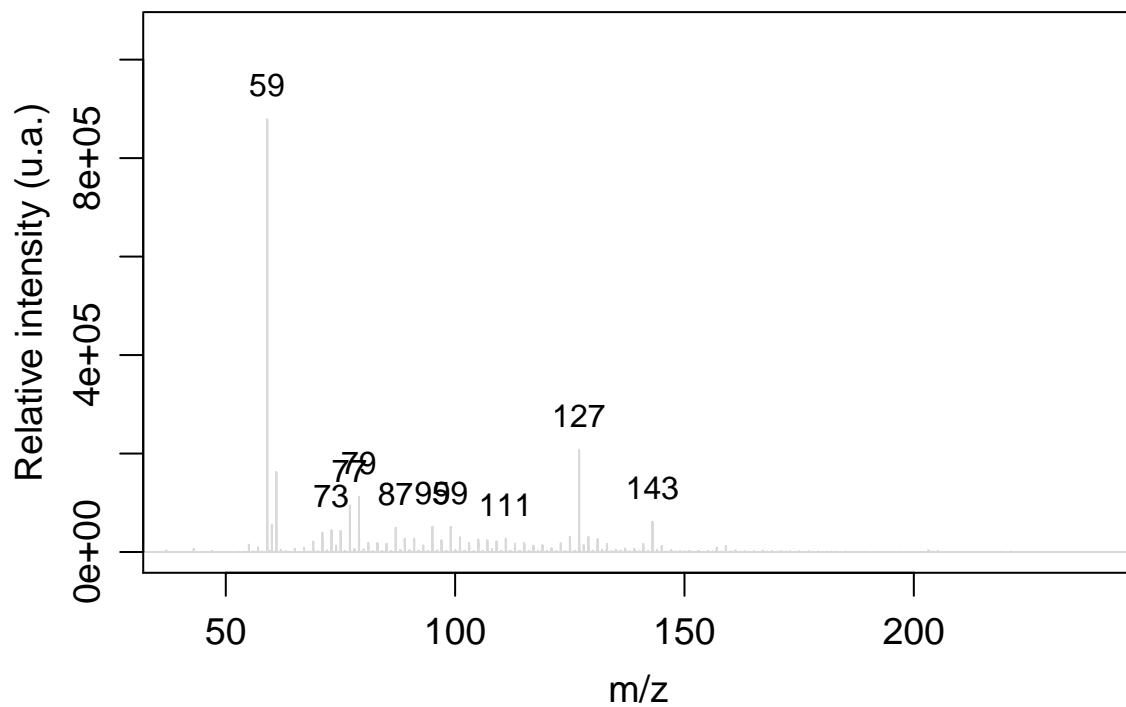
**s1\_Ch3\_!v3\_c089\_n354**



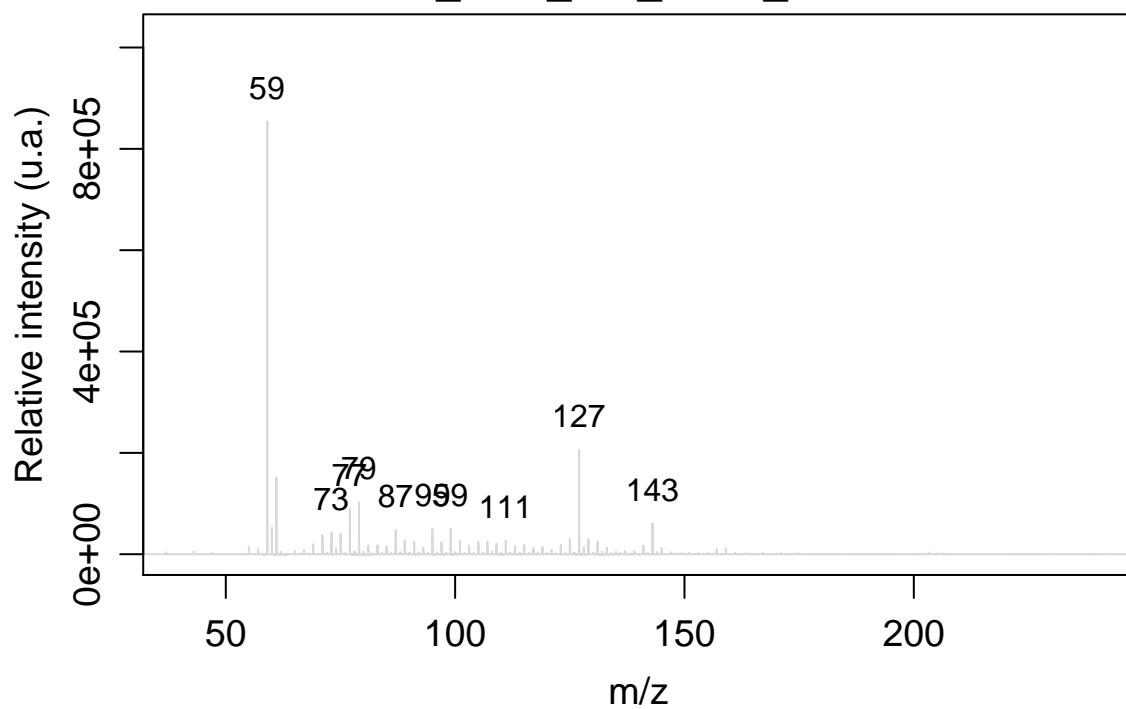
**s1\_Ch3\_!v3\_c091\_n362**



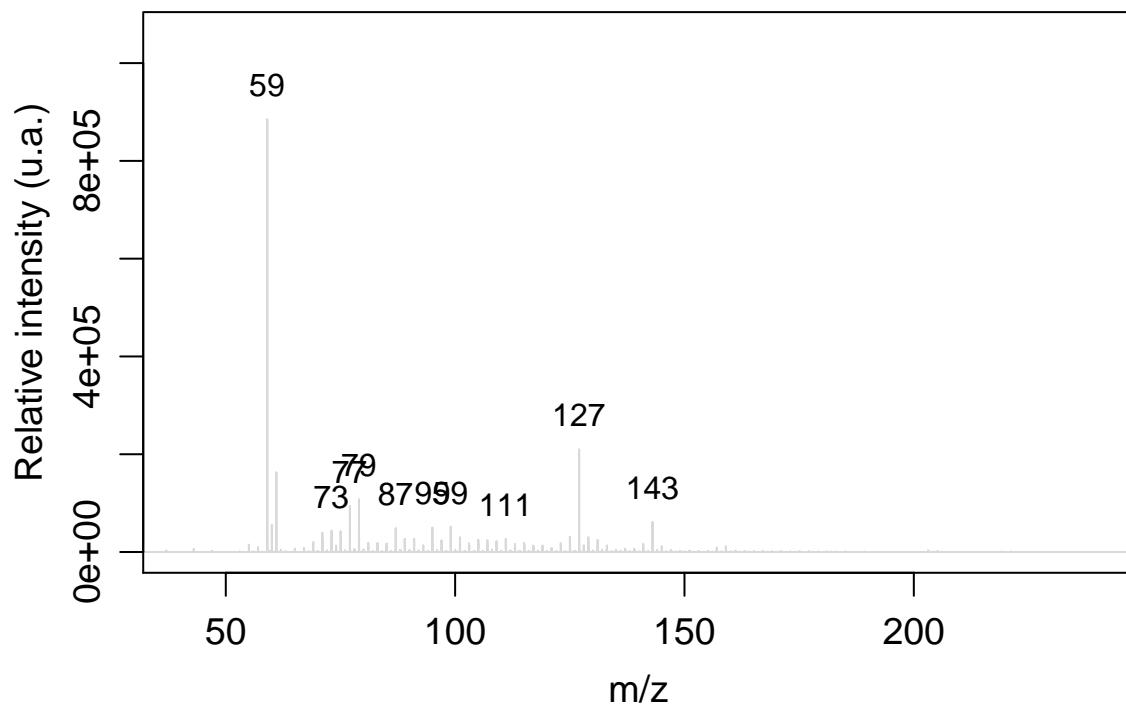
**s1\_Ch4\_b1\_c023\_n091**



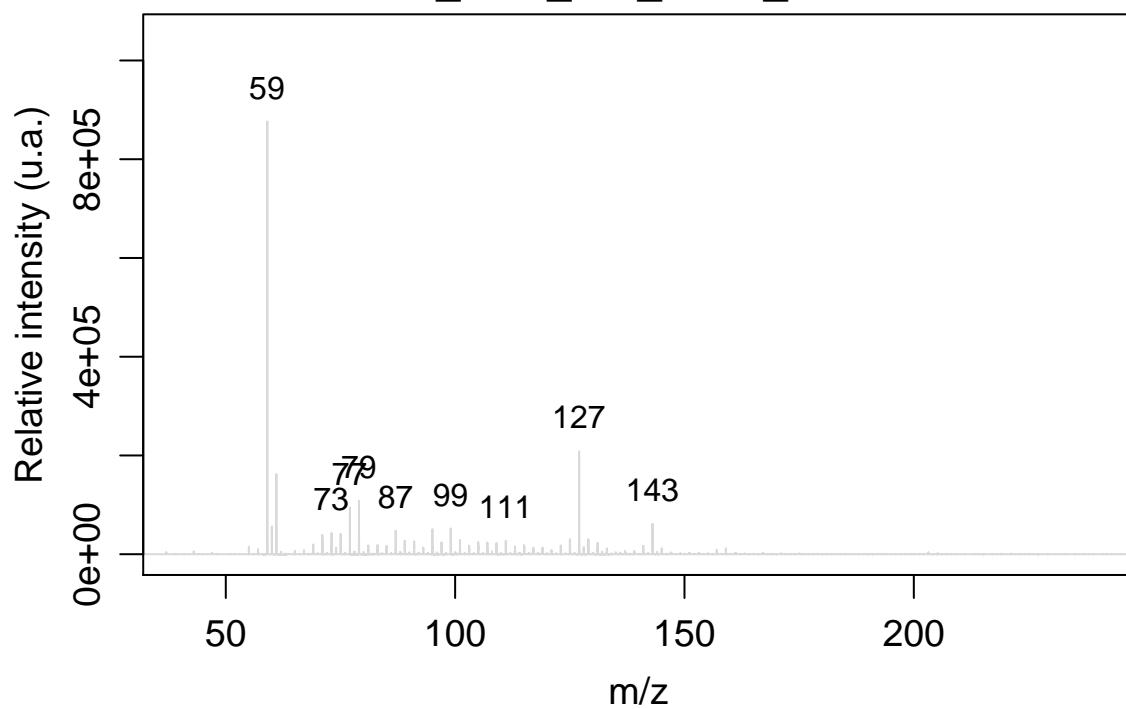
**s1\_Ch4\_b1\_c025\_n099**



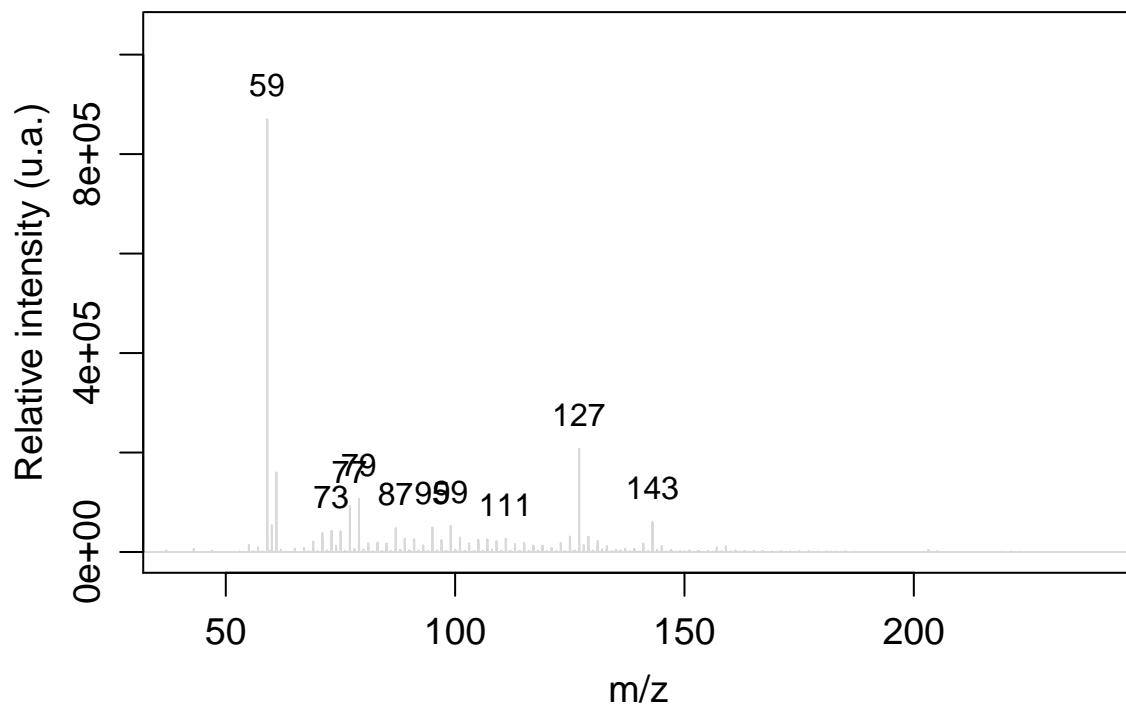
**s1\_Ch4\_b1\_c027\_n107**



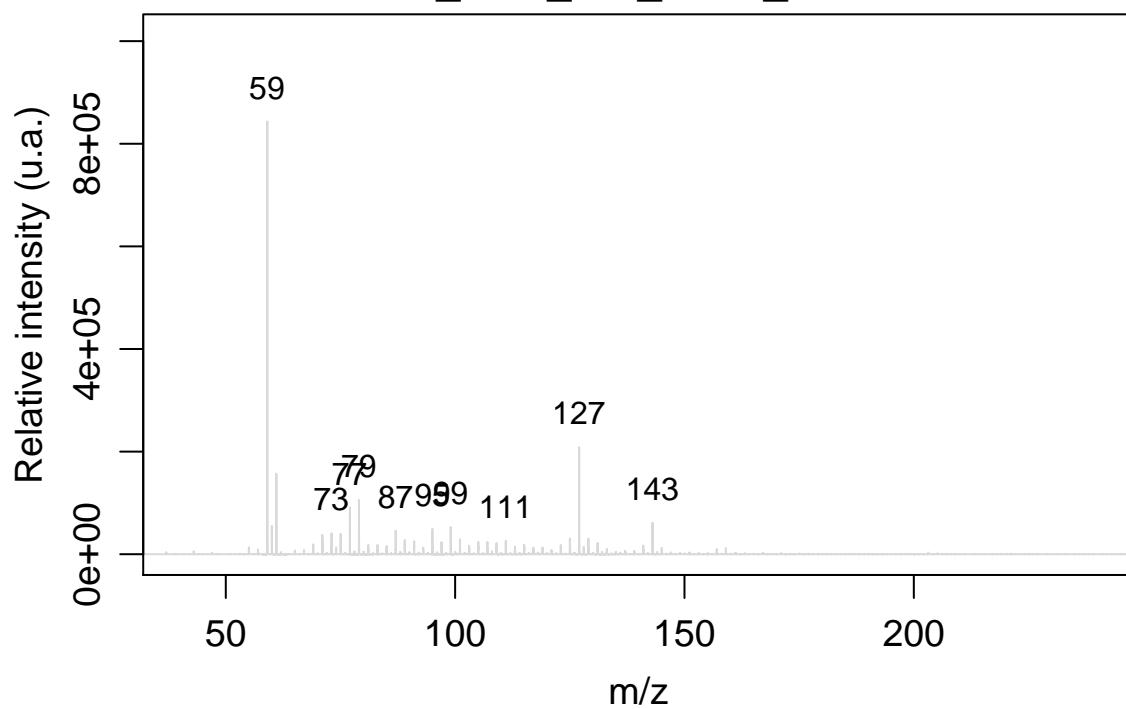
**s1\_Ch4\_b1\_c029\_n115**



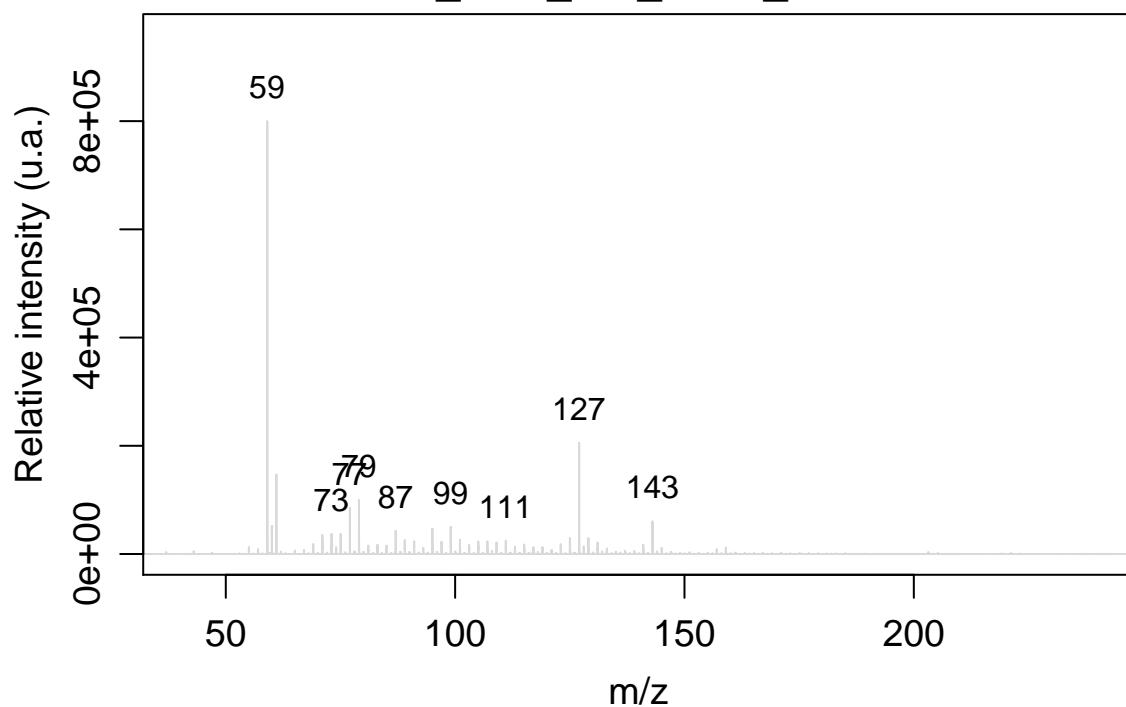
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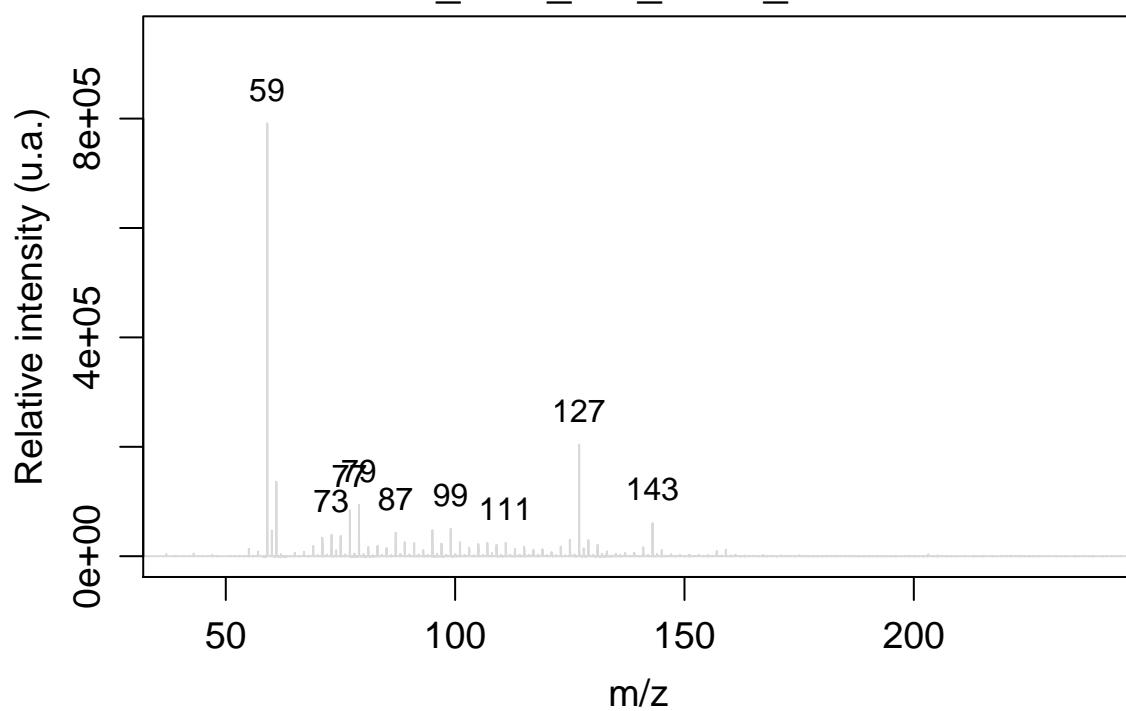
**s1\_Ch4\_b1\_c033\_n131**



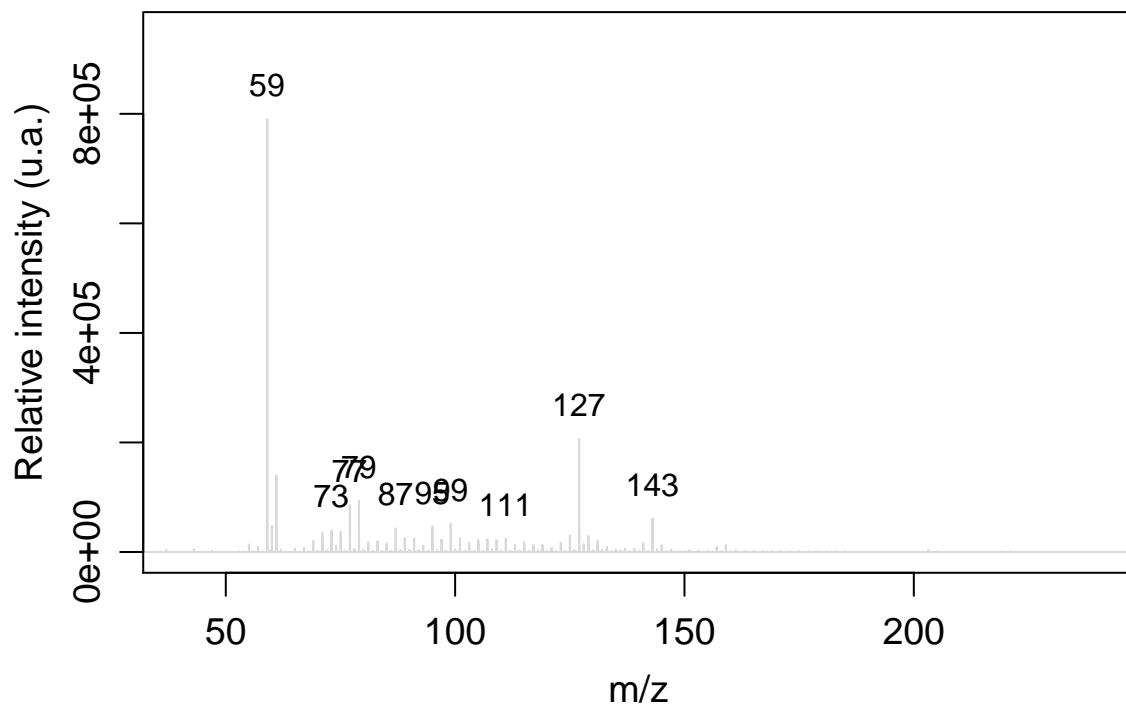
**s1\_Ch4\_b1\_c035\_n139**



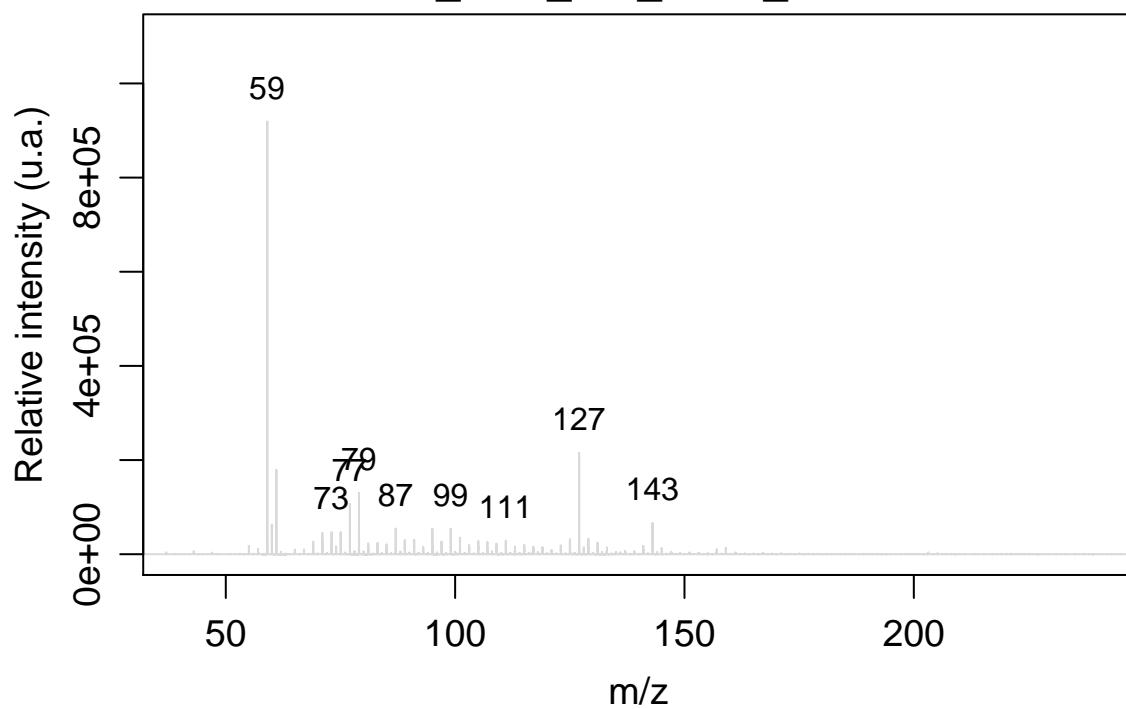
**s1\_Ch4\_b1\_c037\_n147**



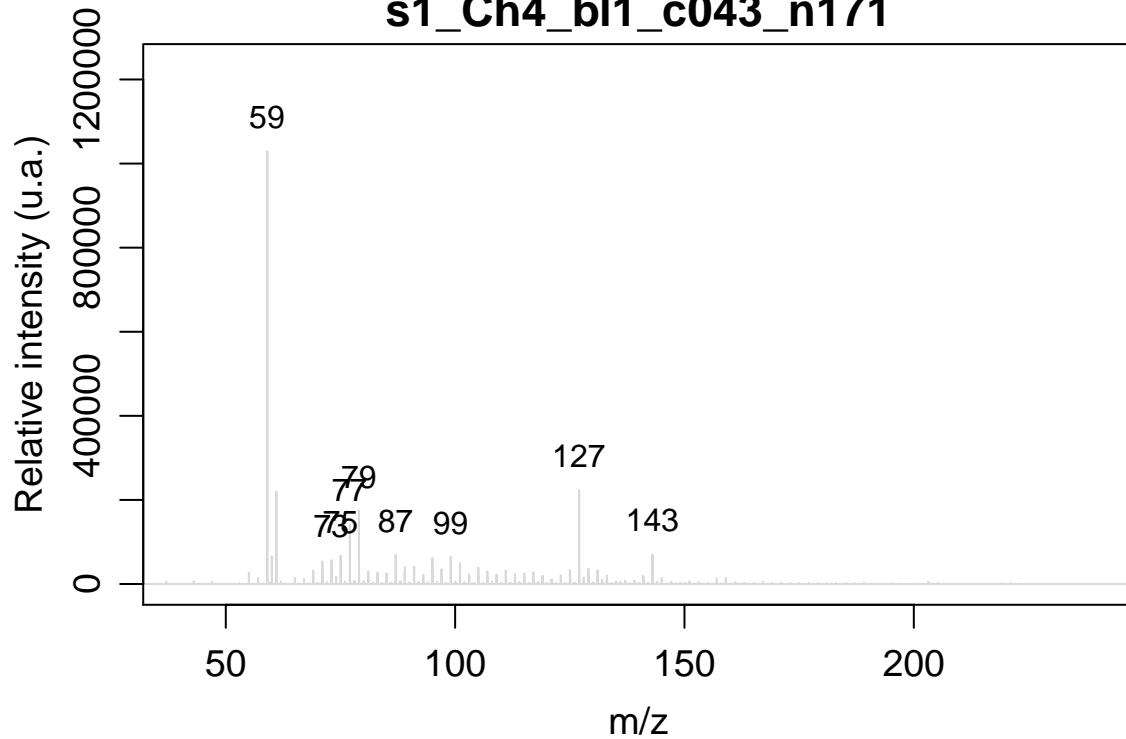
**s1\_Ch4\_b1\_c039\_n155**



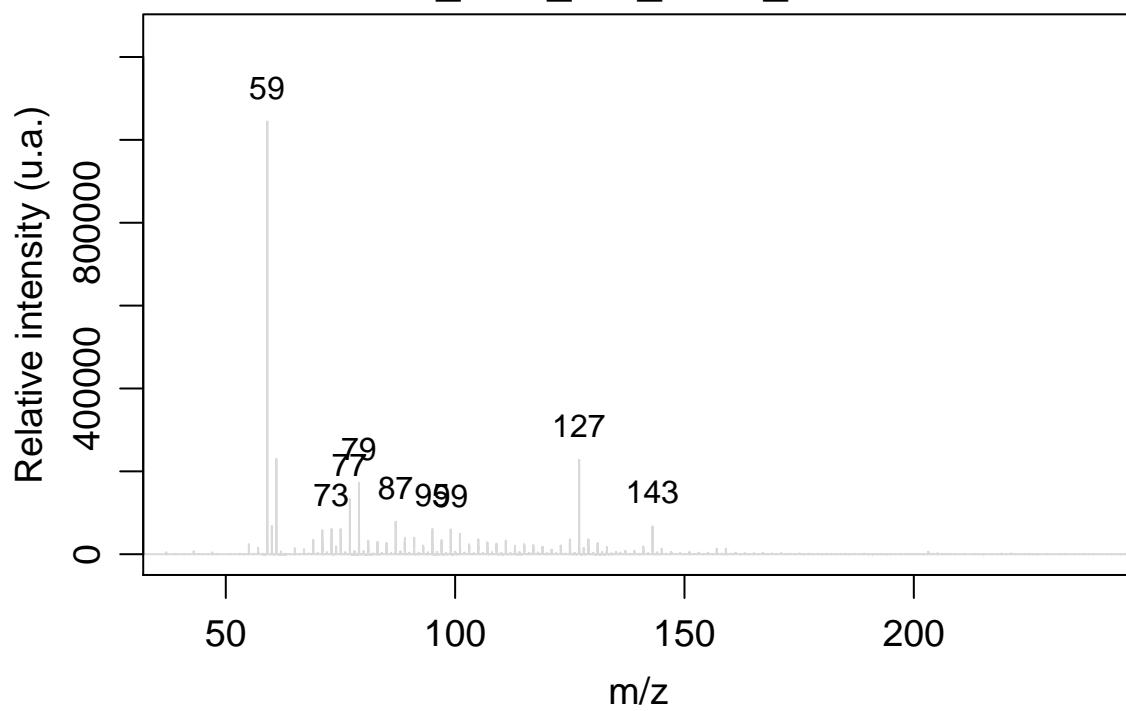
**s1\_Ch4\_b1\_c041\_n163**



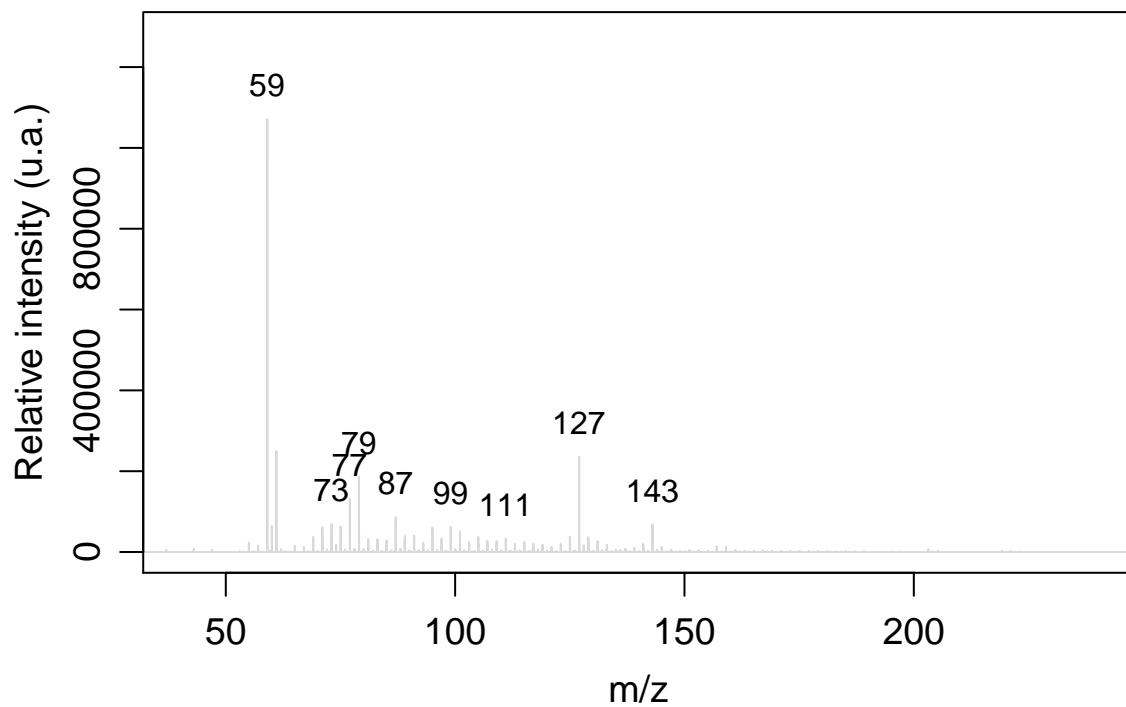
**s1\_Ch4\_b1\_c043\_n171**



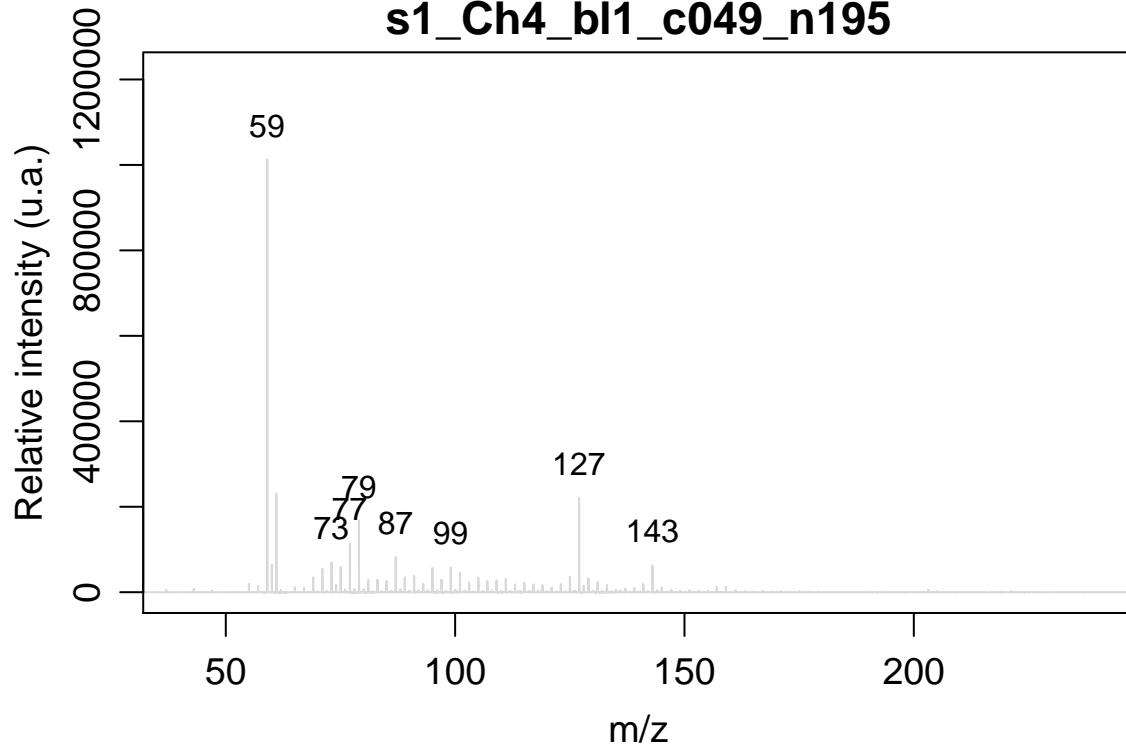
**s1\_Ch4\_b1\_c045\_n179**



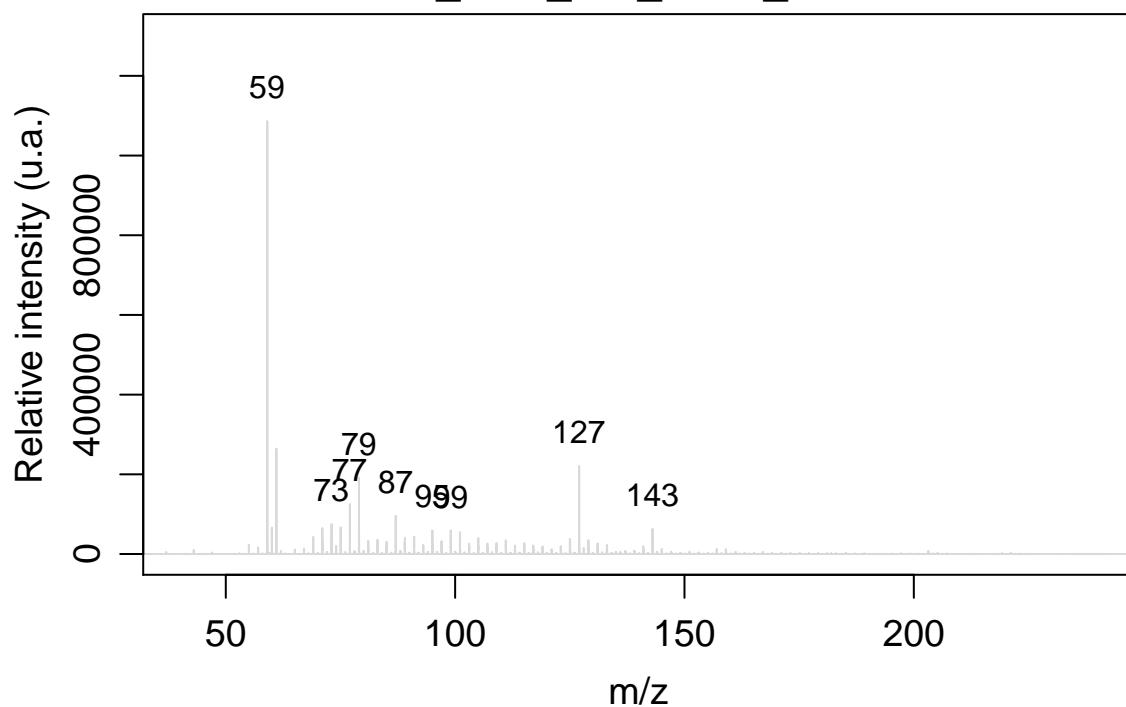
**s1\_Ch4\_bl1\_c047\_n187**



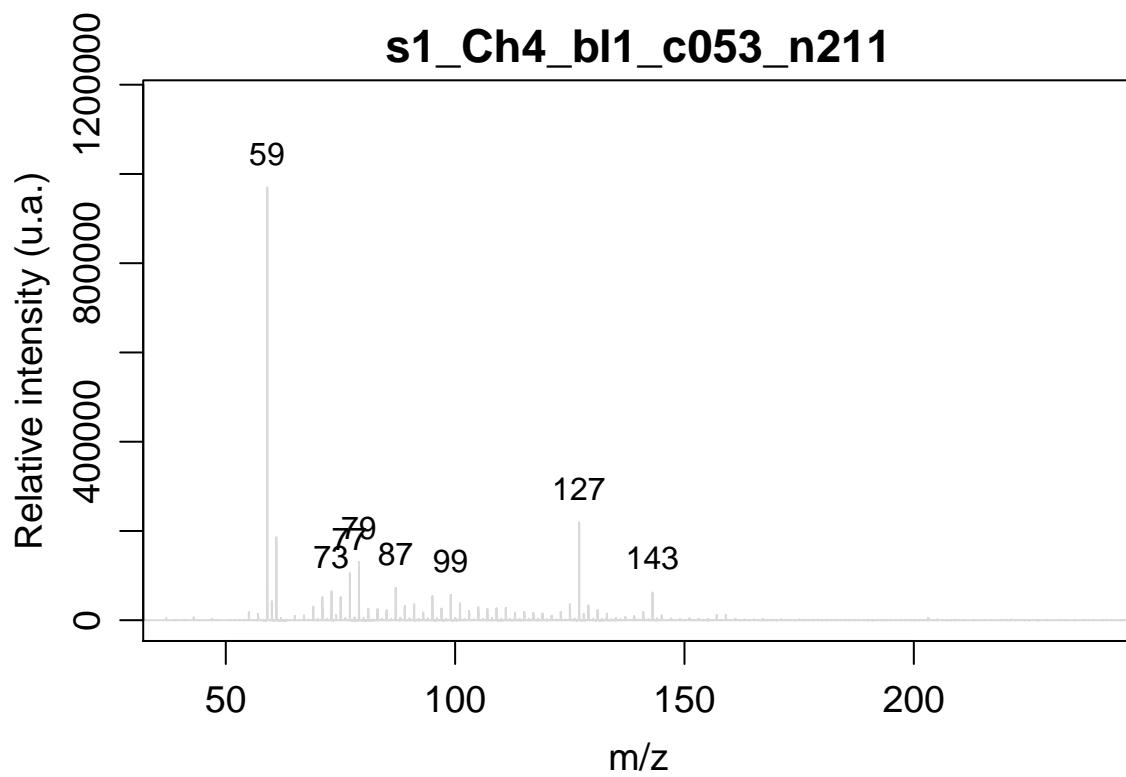
**s1\_Ch4\_bl1\_c049\_n195**



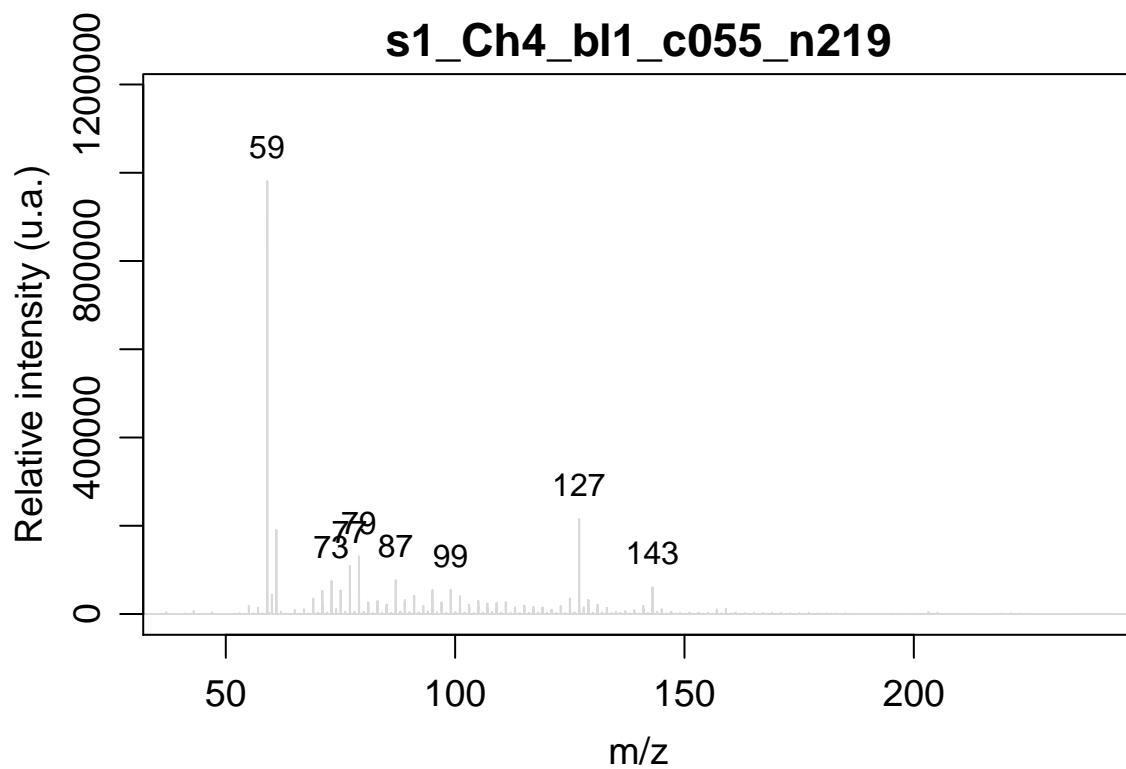
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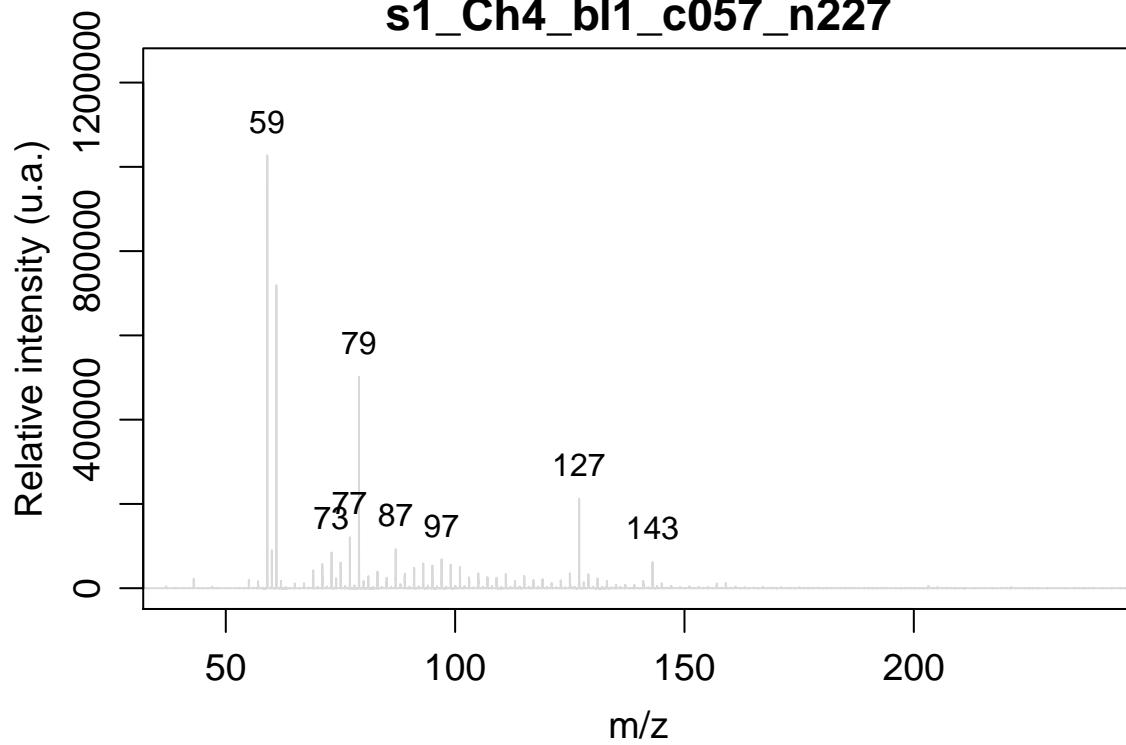
**s1\_Ch4\_b1\_c053\_n211**



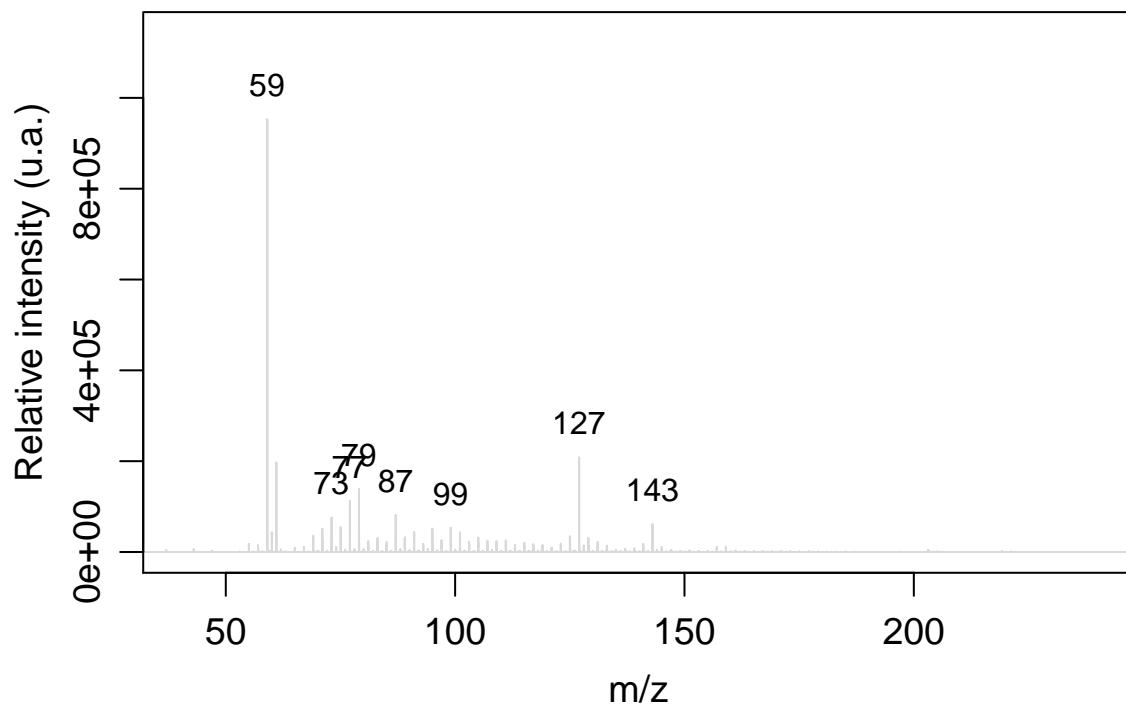
**s1\_Ch4\_b1\_c055\_n219**



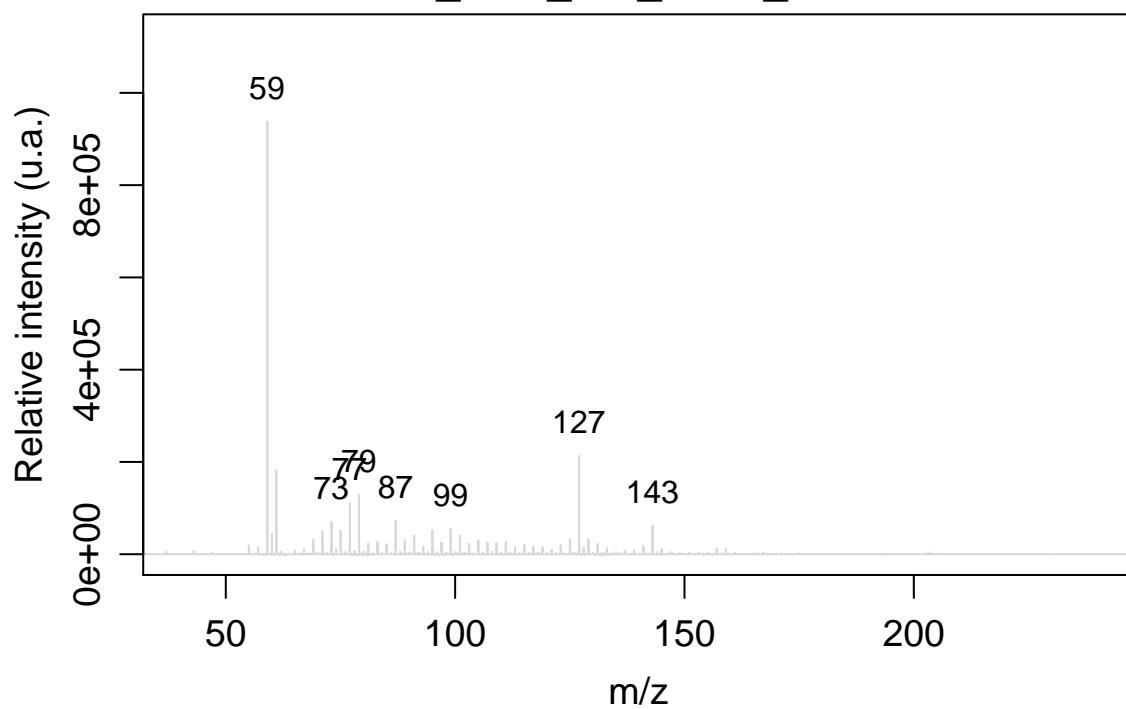
**s1\_Ch4\_b1\_c057\_n227**



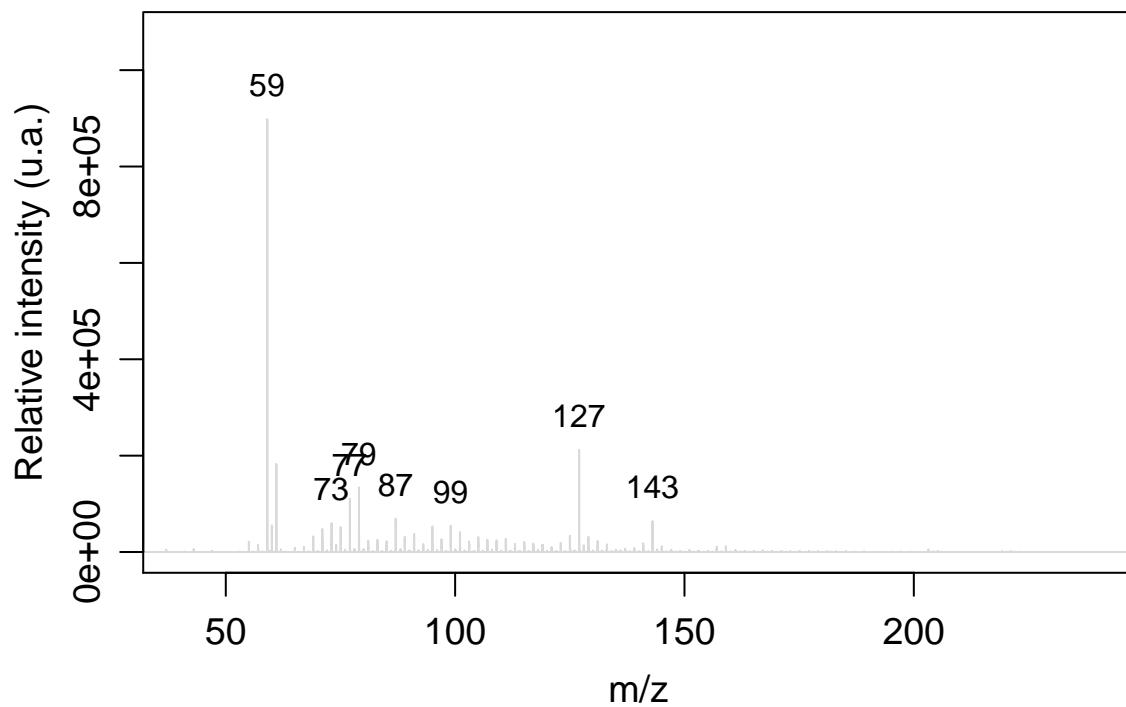
**s1\_Ch4\_b1\_c059\_n235**



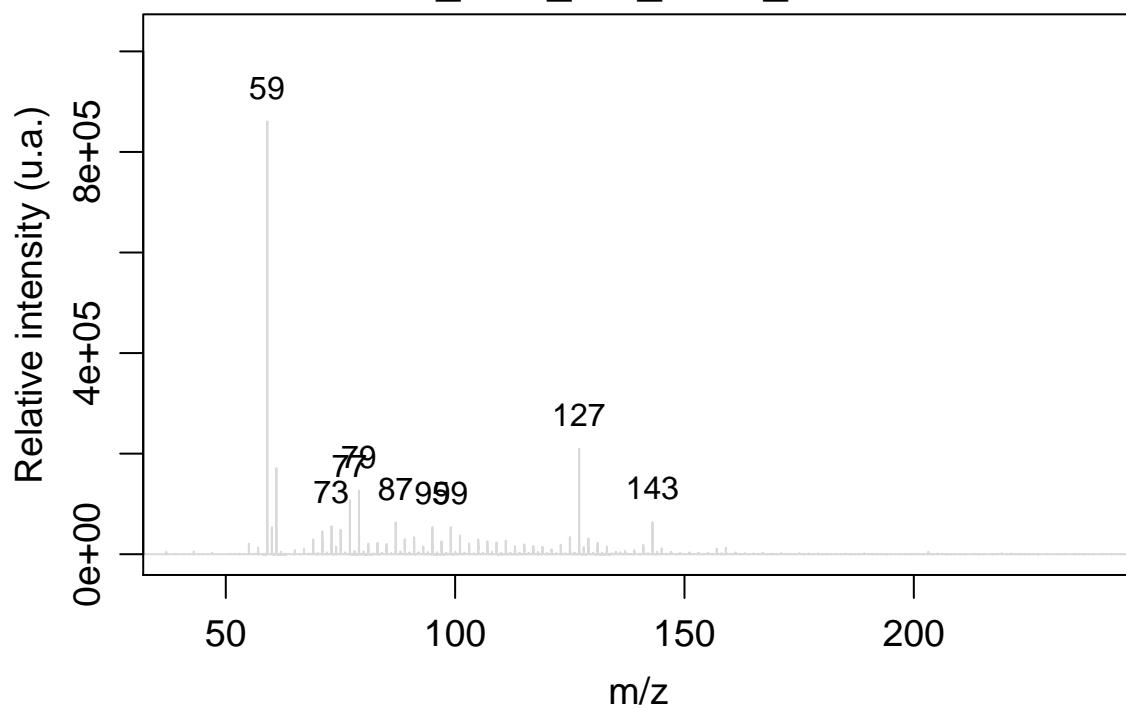
**s1\_Ch4\_b1\_c061\_n243**



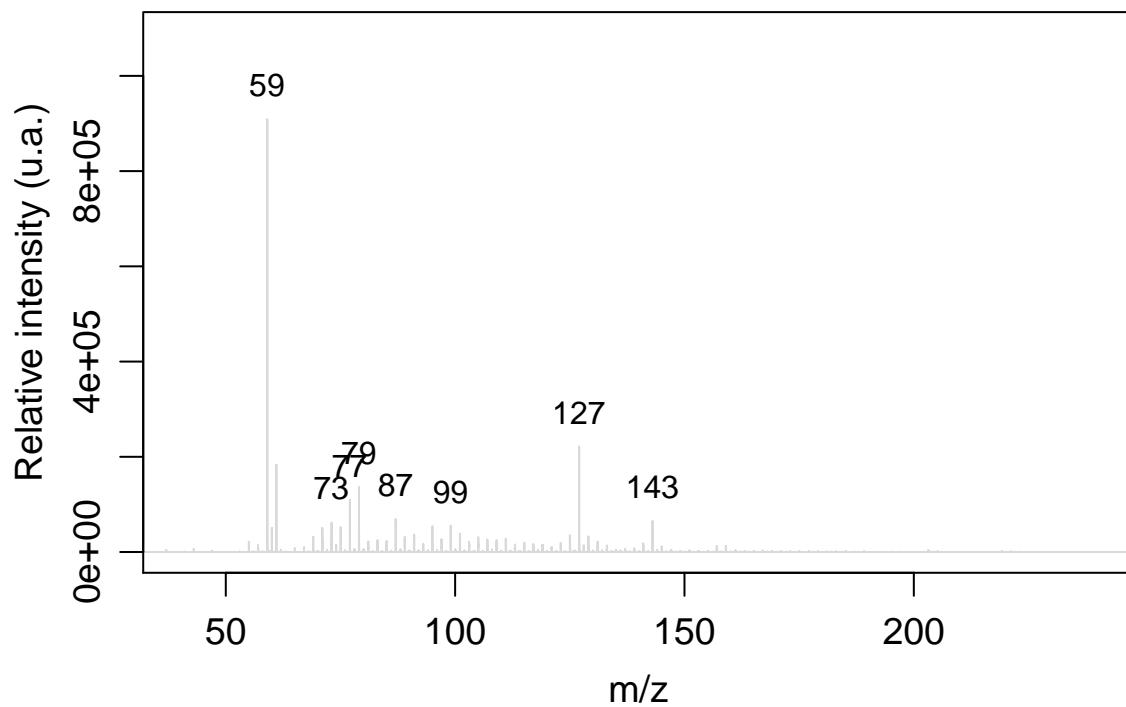
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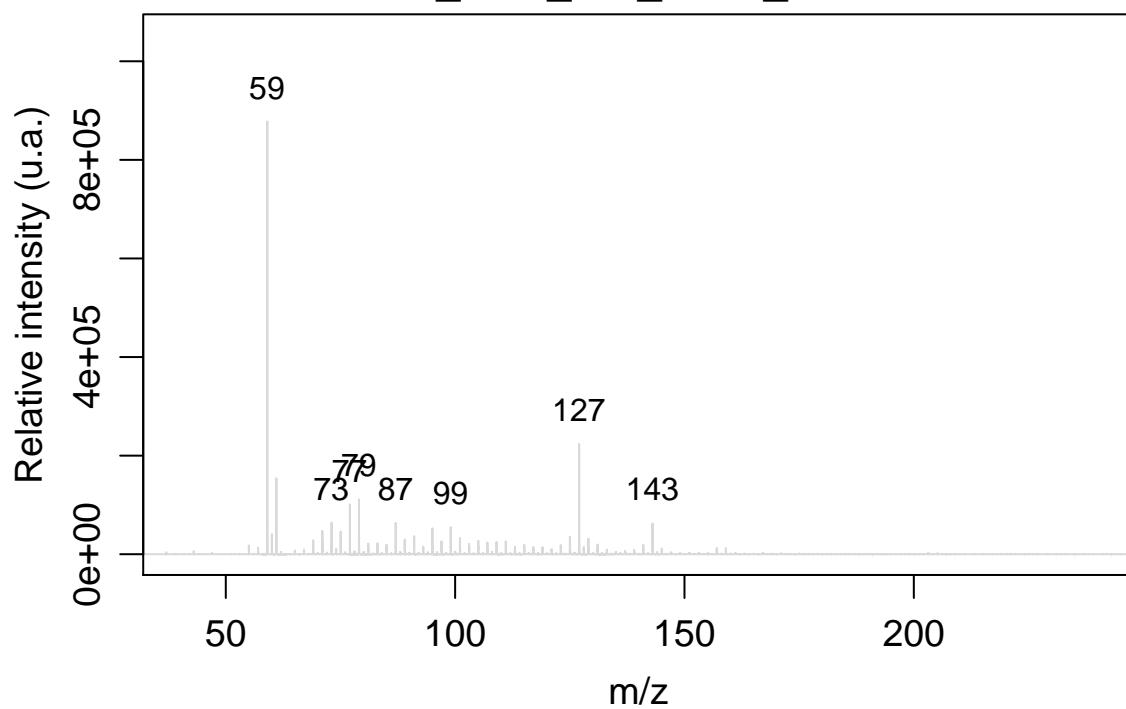
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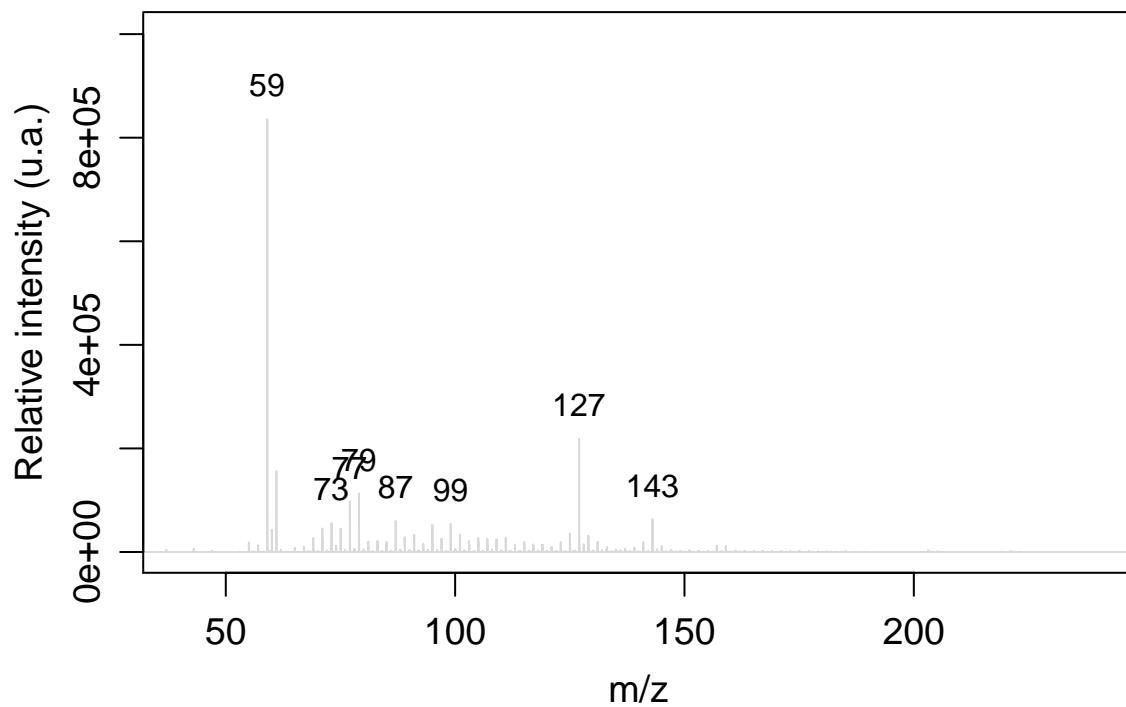
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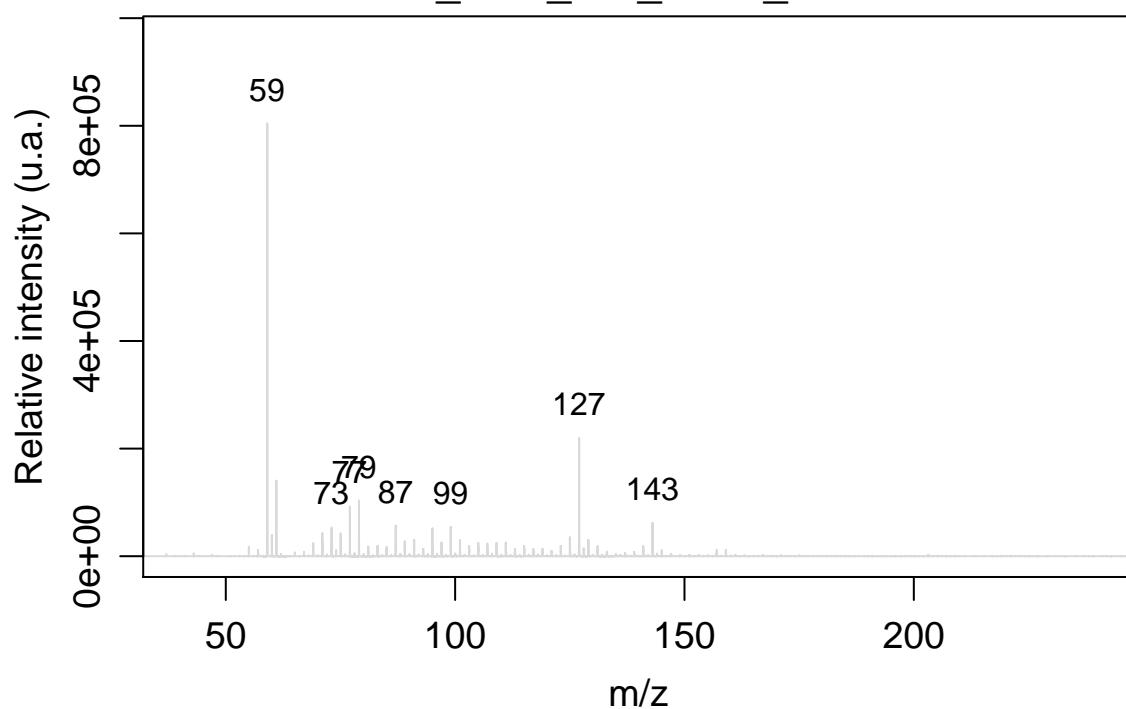
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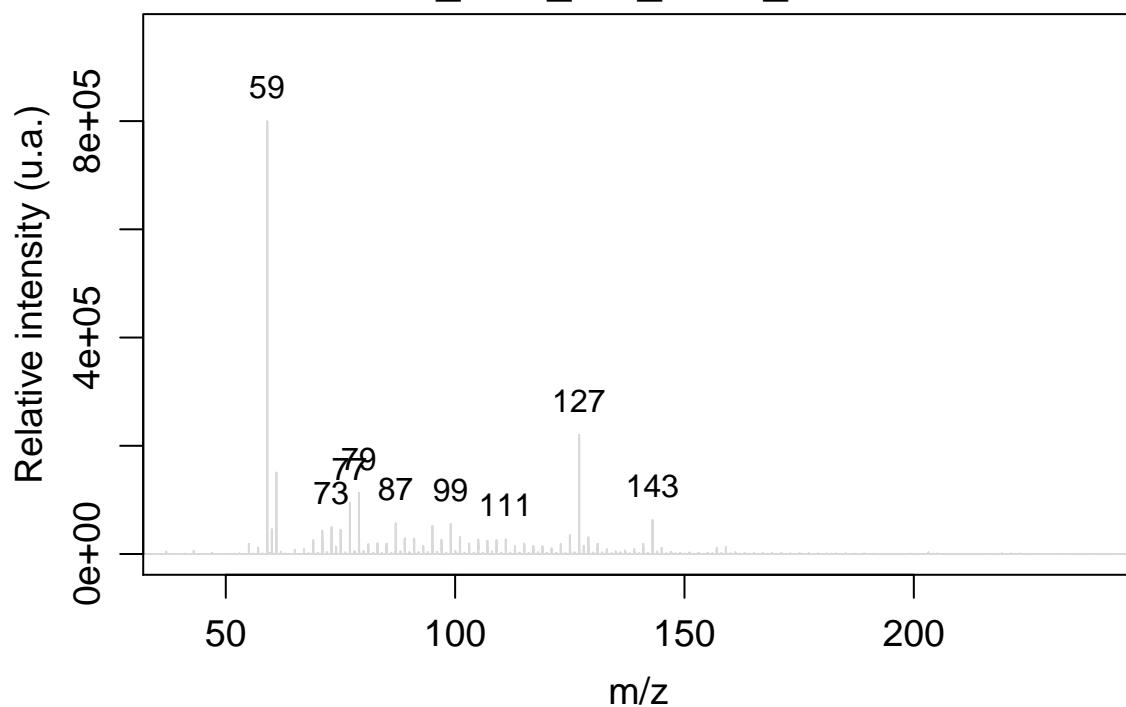
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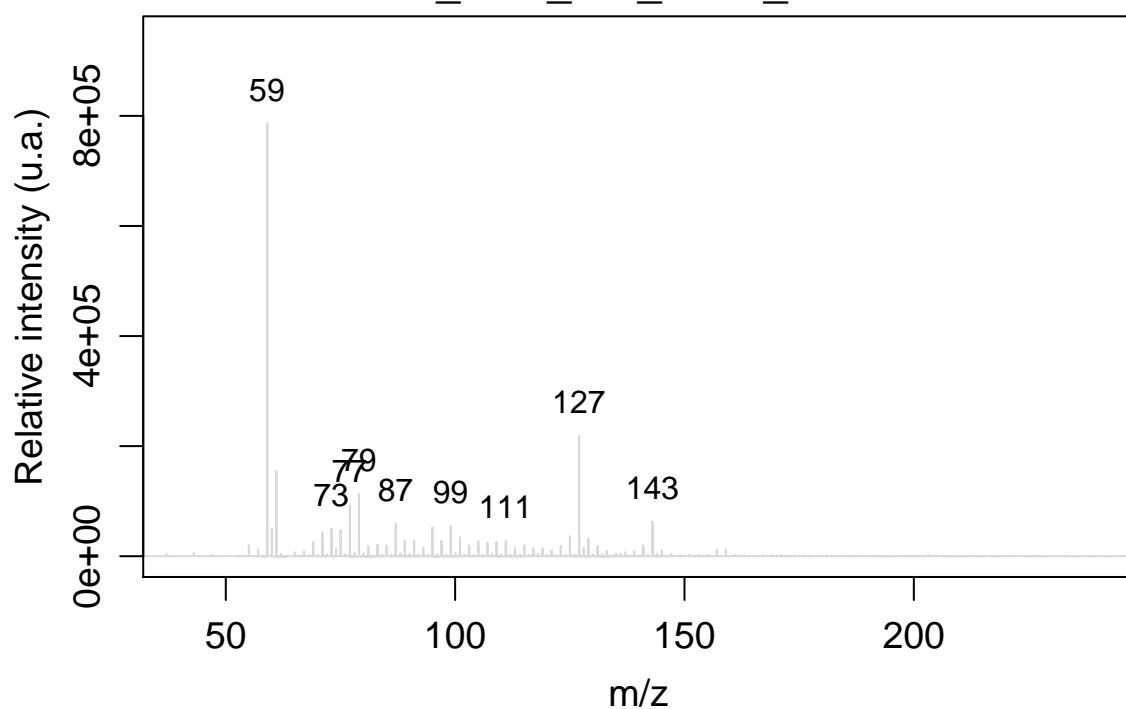
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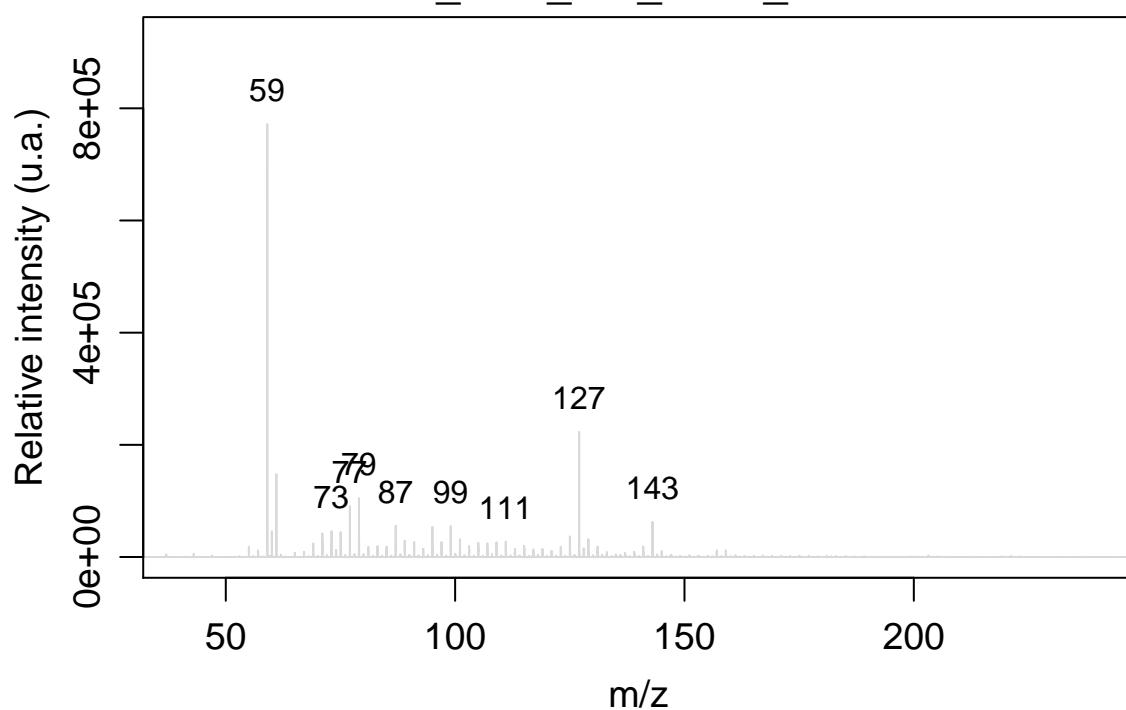
**s1\_Ch4\_b1\_c075\_n299**



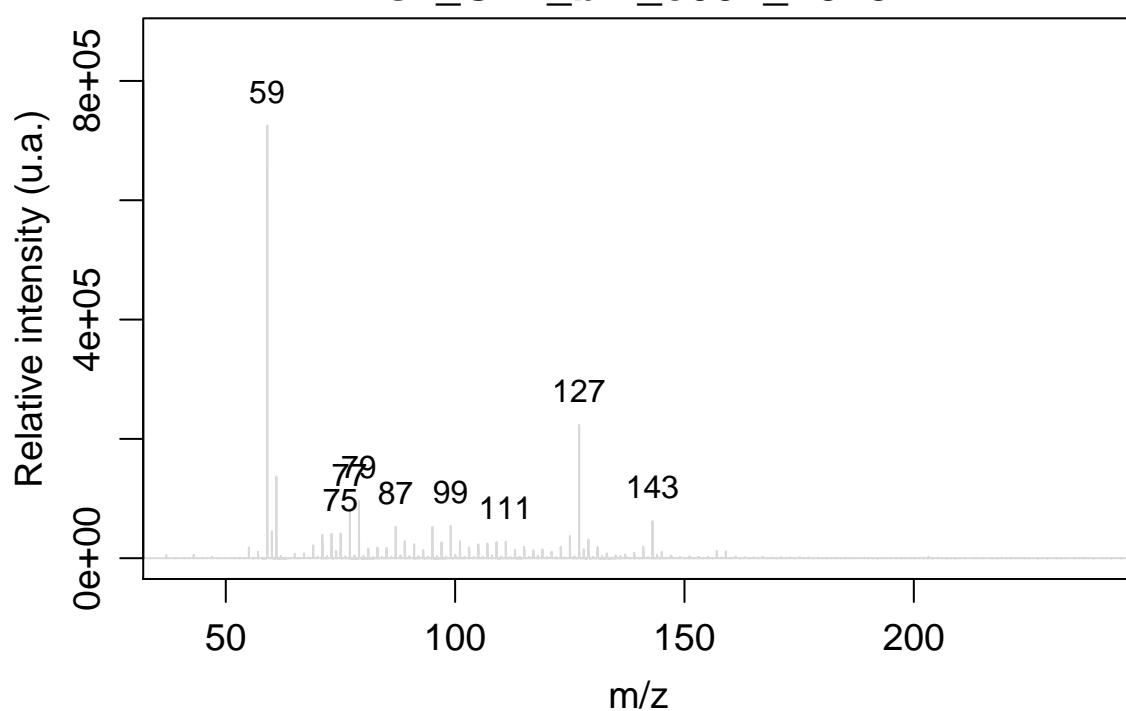
**s1\_Ch4\_b1\_c077\_n307**

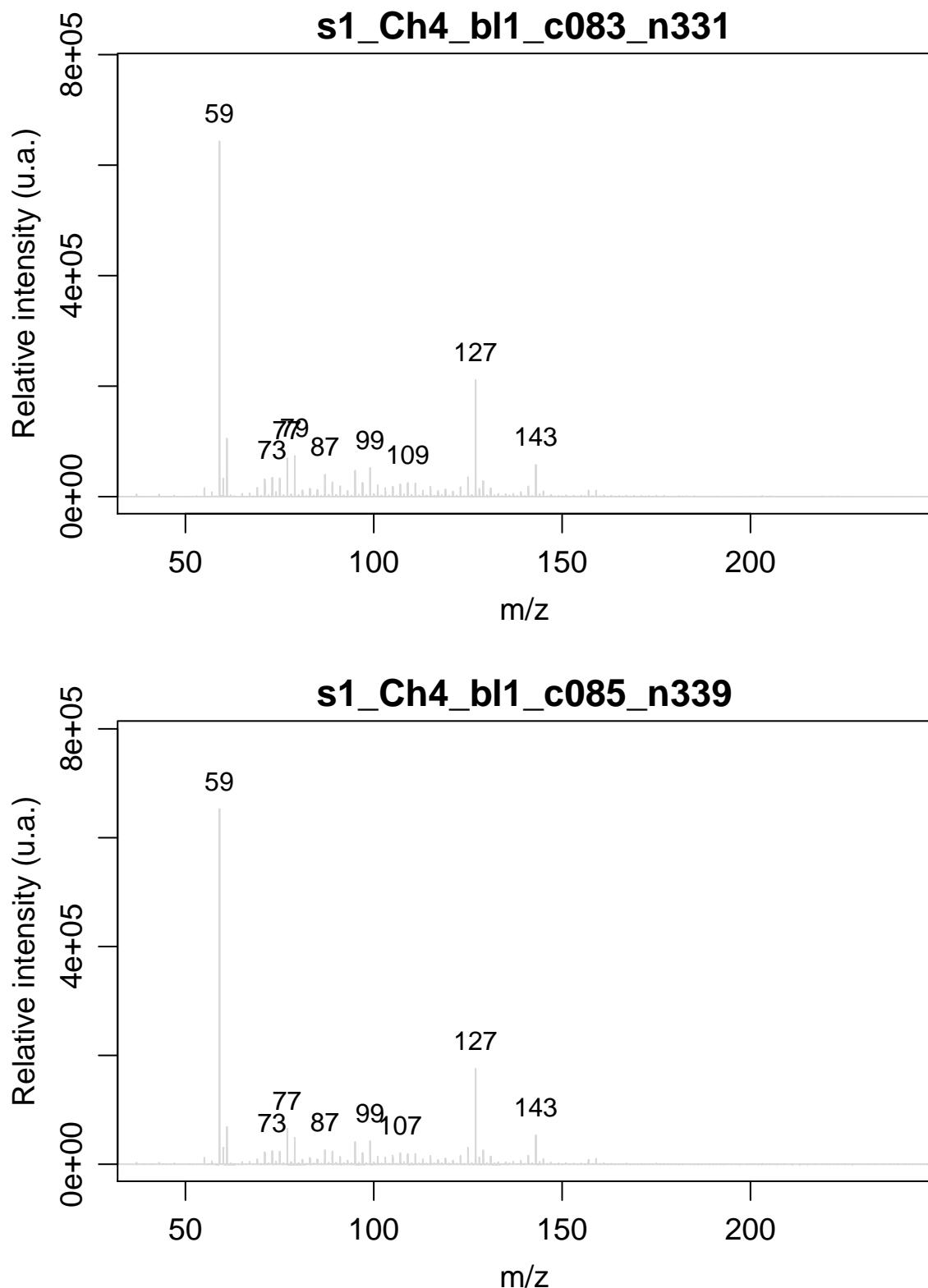


**s1\_Ch4\_b1\_c079\_n315**

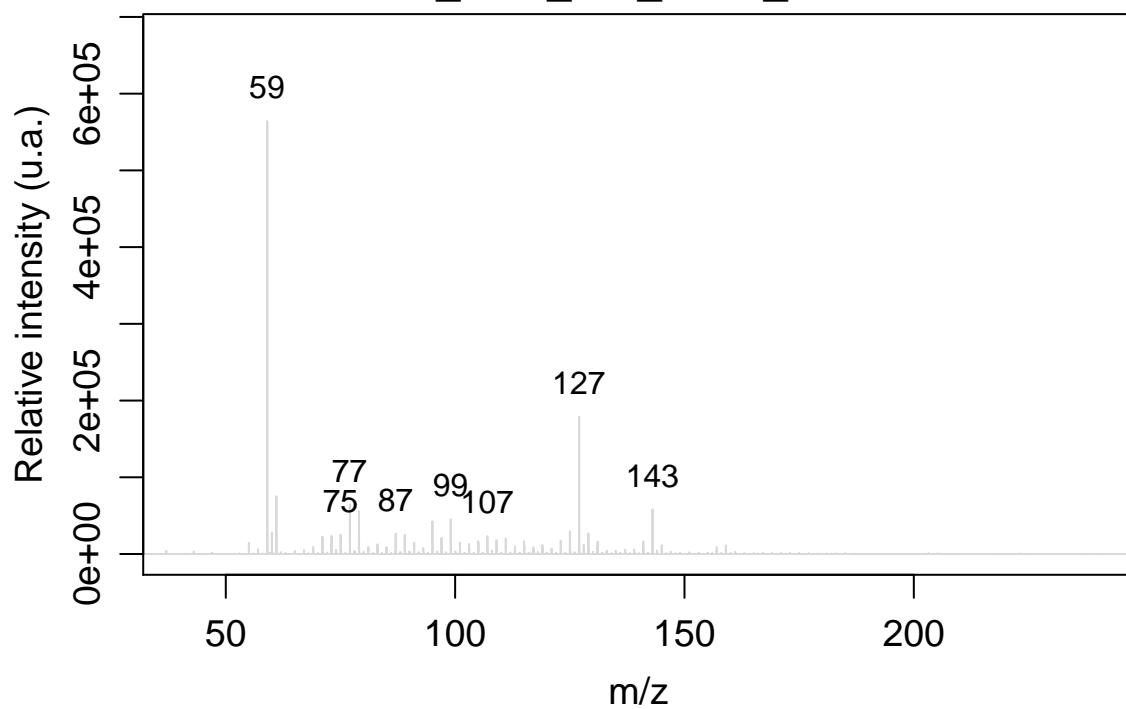


**s1\_Ch4\_b1\_c081\_n323**

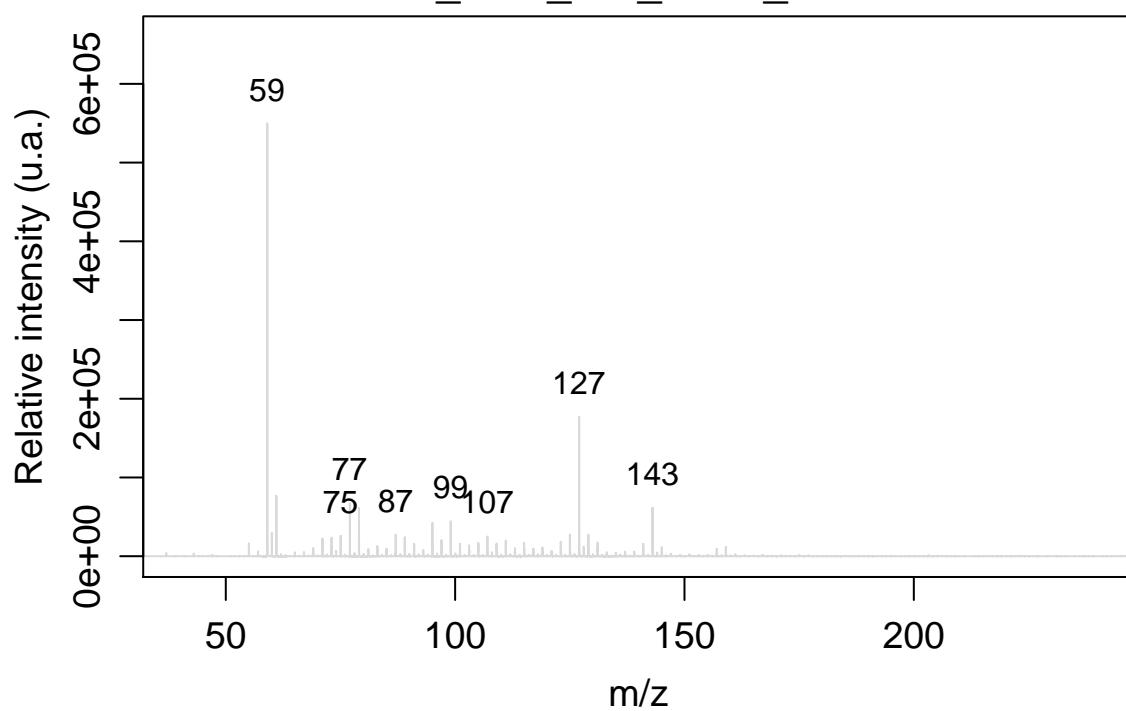




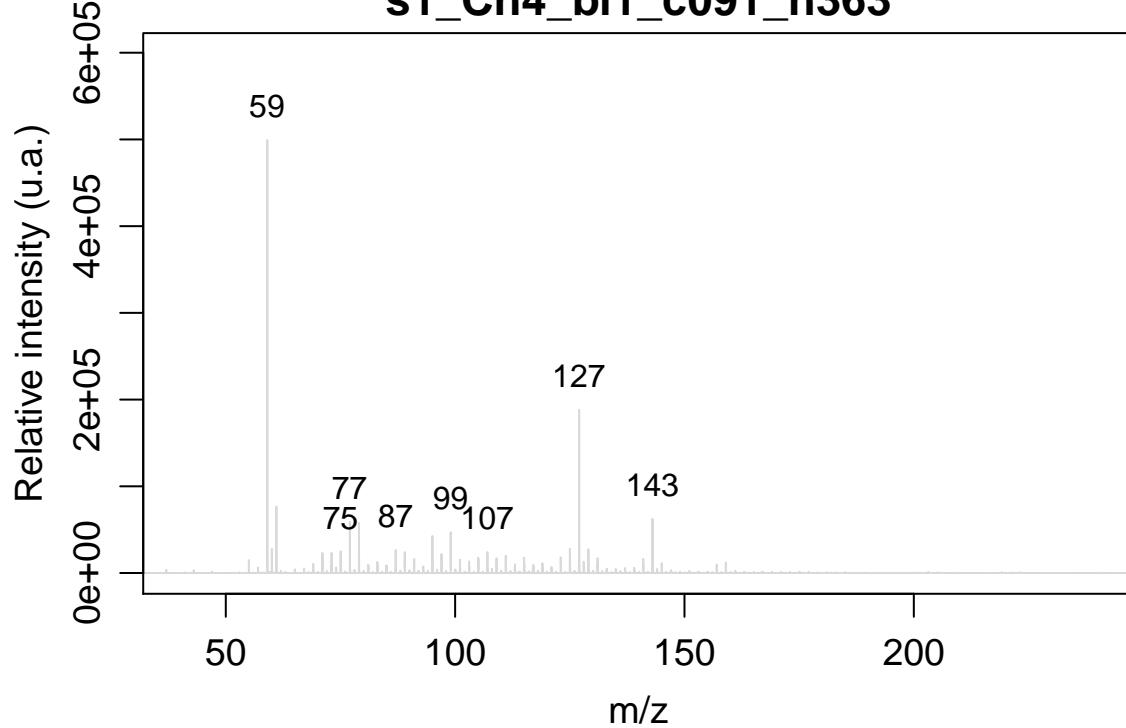
**s1\_Ch4\_b1\_c087\_n347**



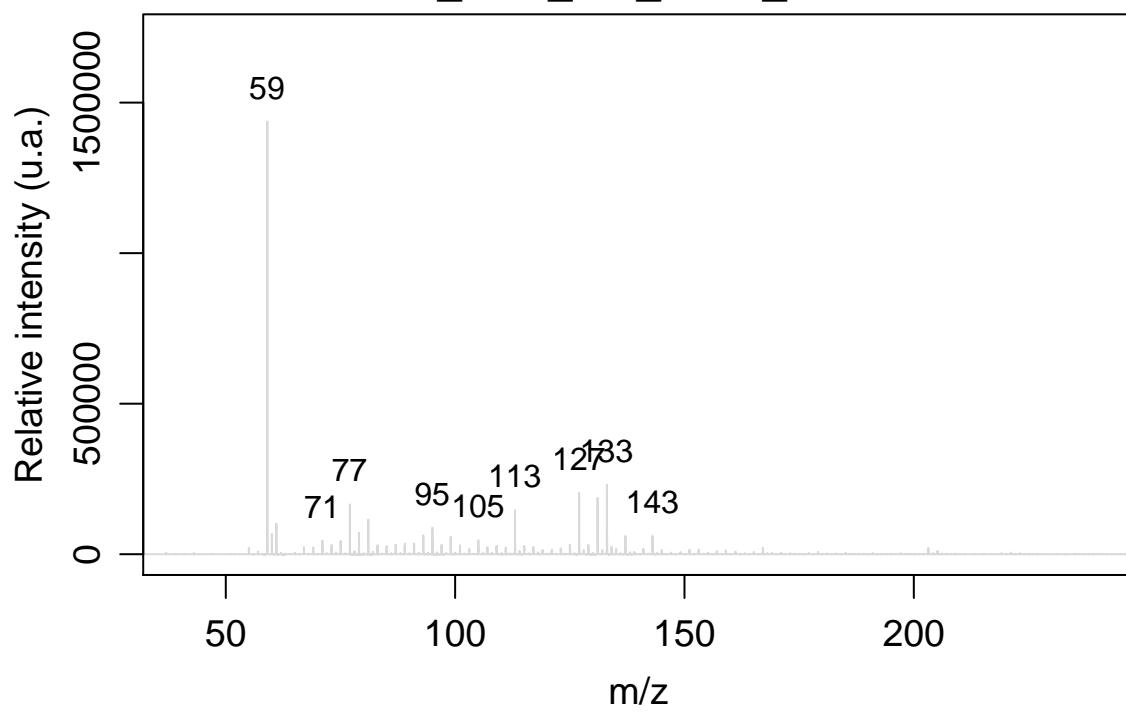
**s1\_Ch4\_b1\_c089\_n355**



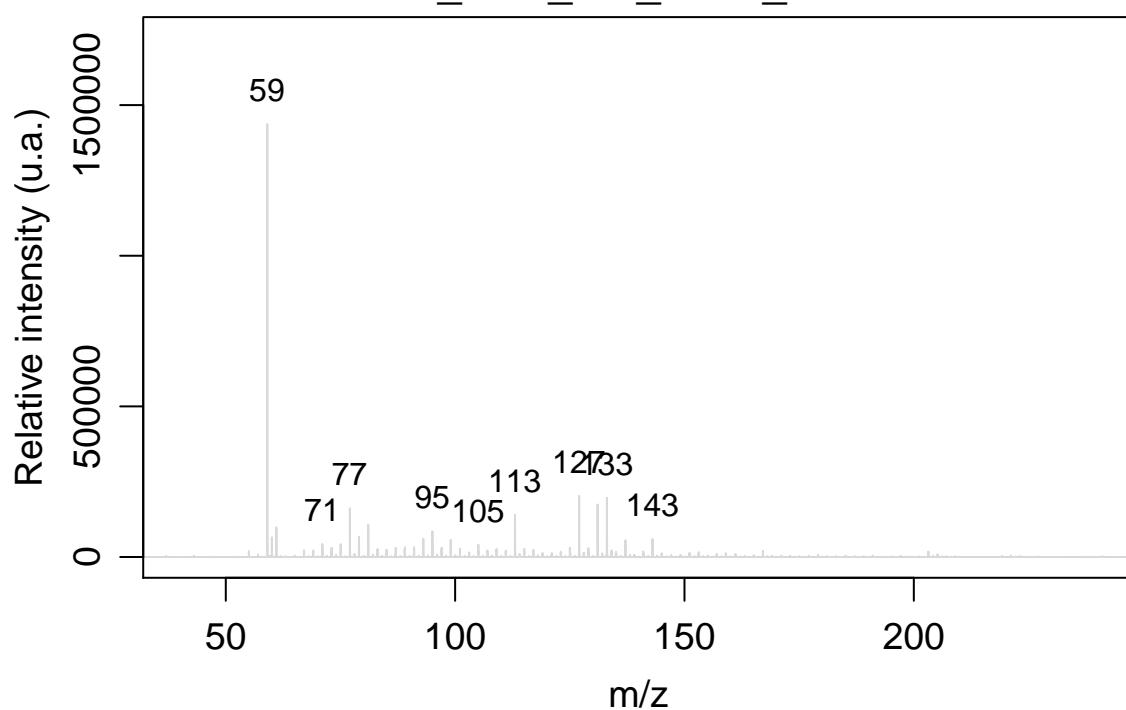
**s1\_Ch4\_bl1\_c091\_n363**



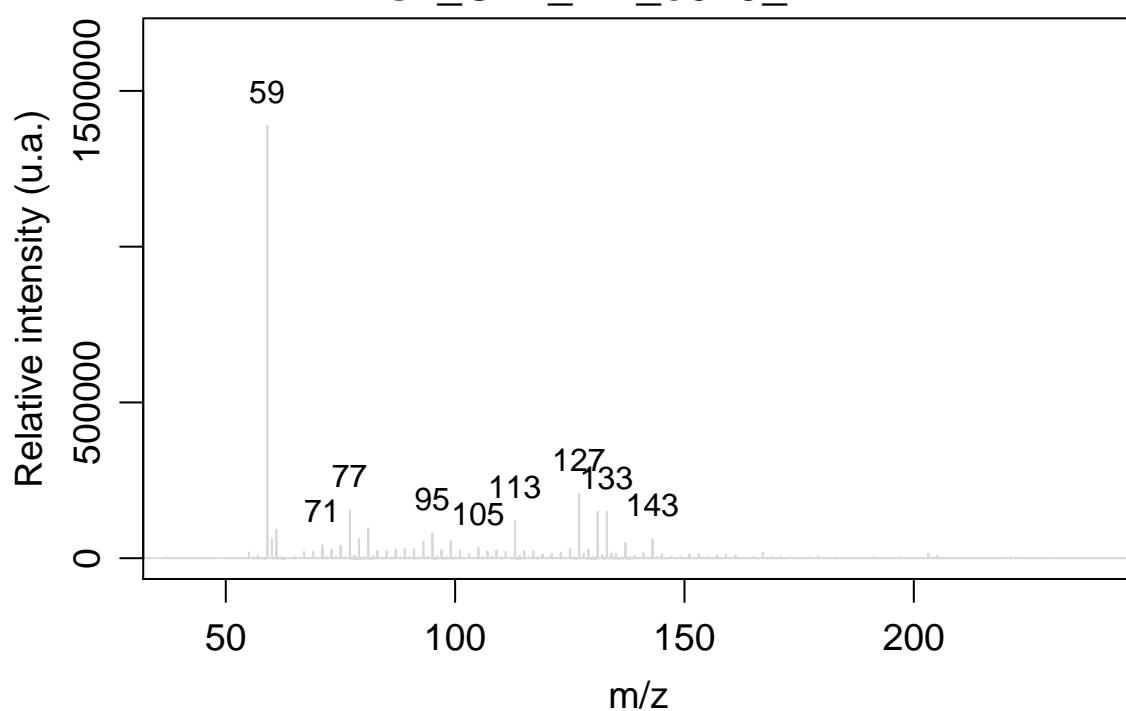
**s2\_Ch1\_lv4\_c025\_n096**



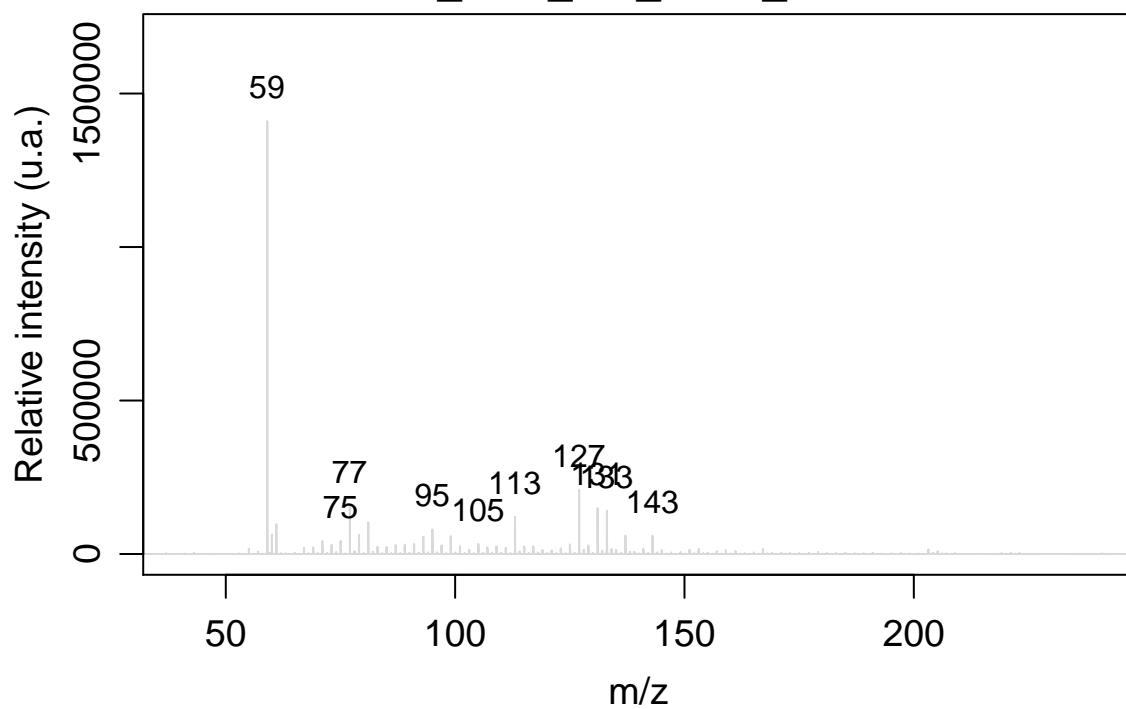
**s2\_Ch1\_!v4\_c027\_n104**



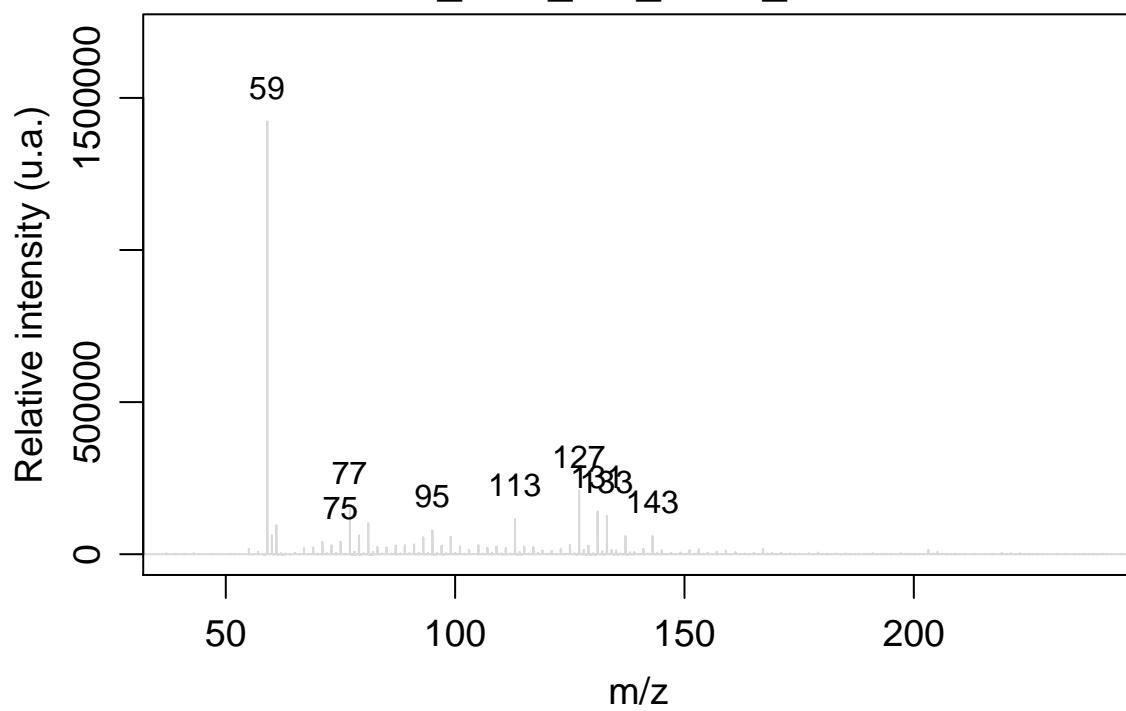
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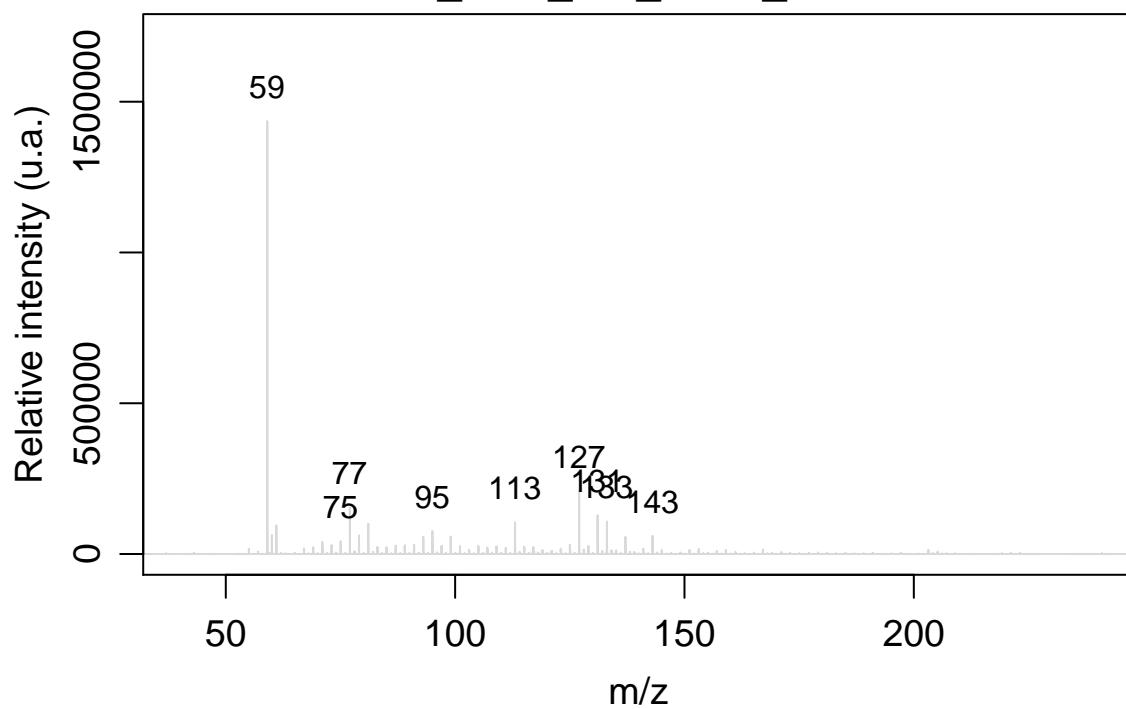
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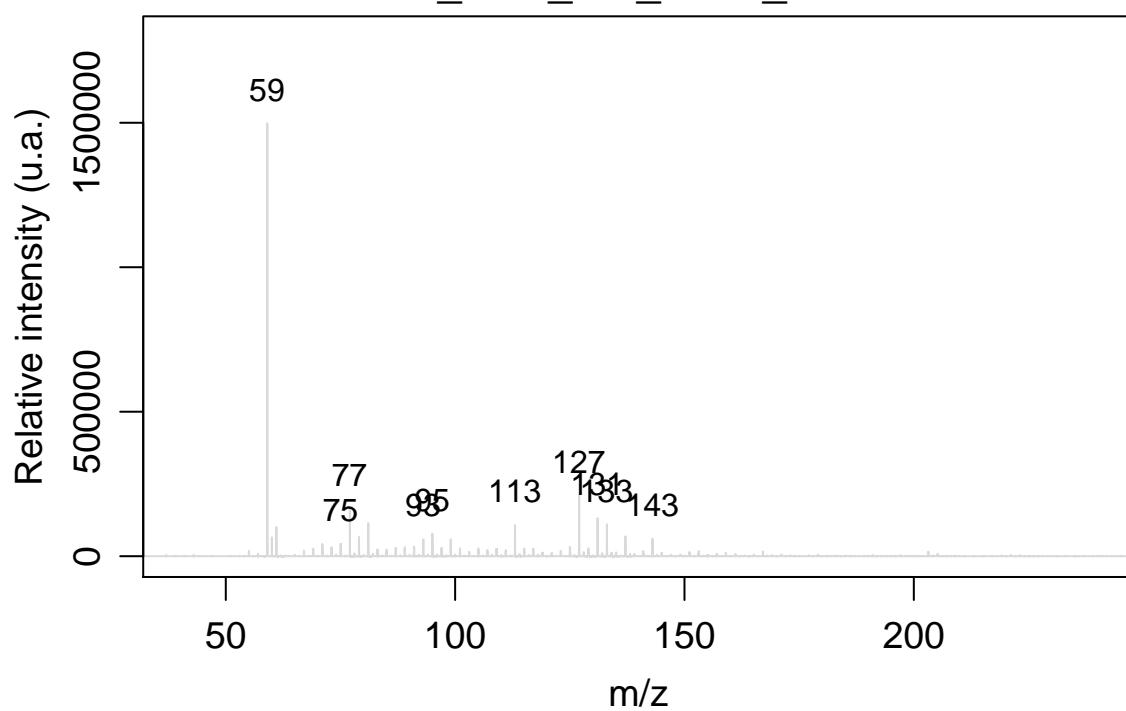
**s2\_Ch1\_!v4\_c033\_n128**



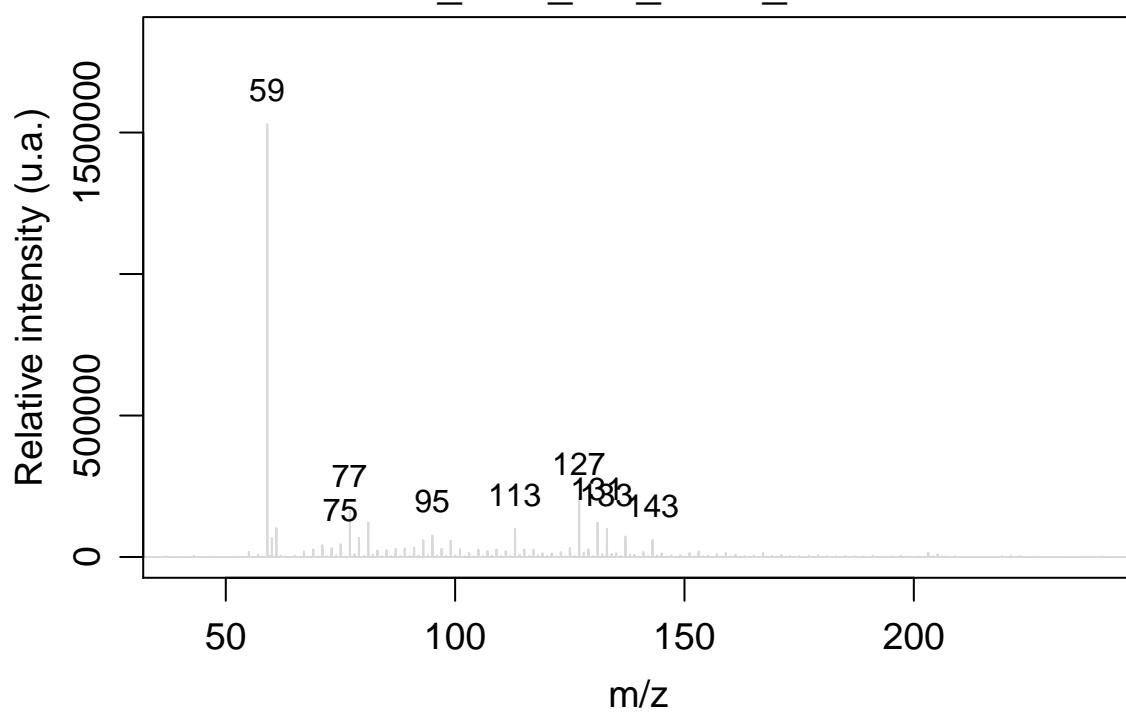
**s2\_Ch1\_!v4\_c035\_n136**



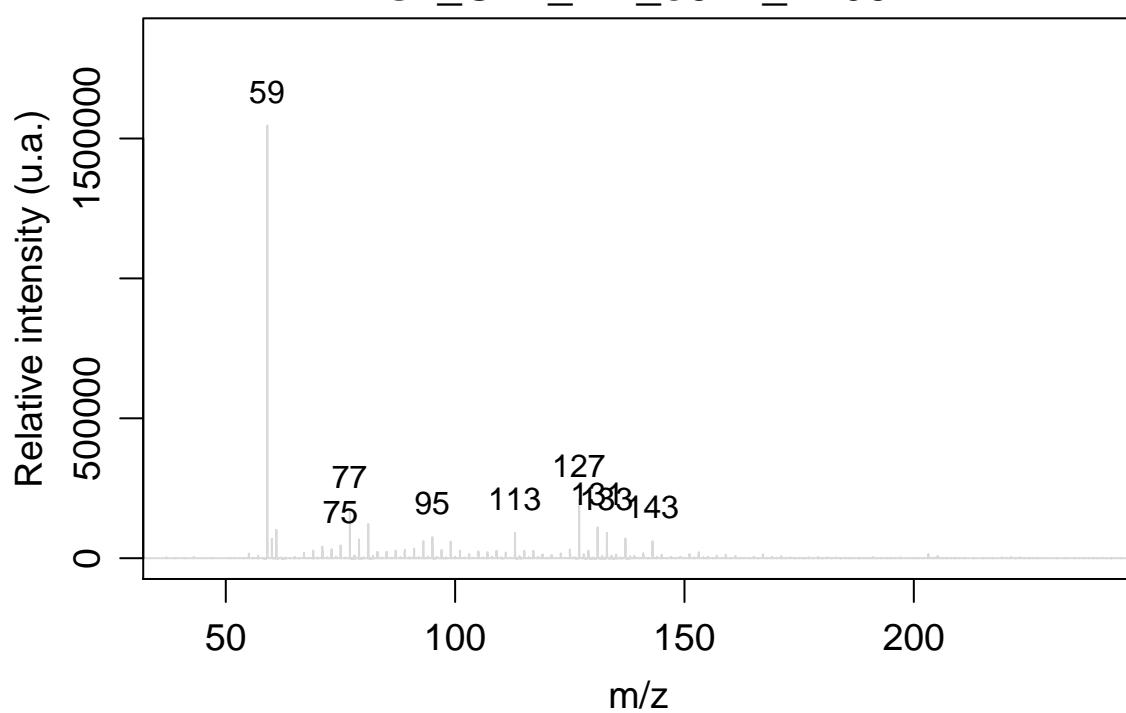
**s2\_Ch1\_!v4\_c037\_n144**



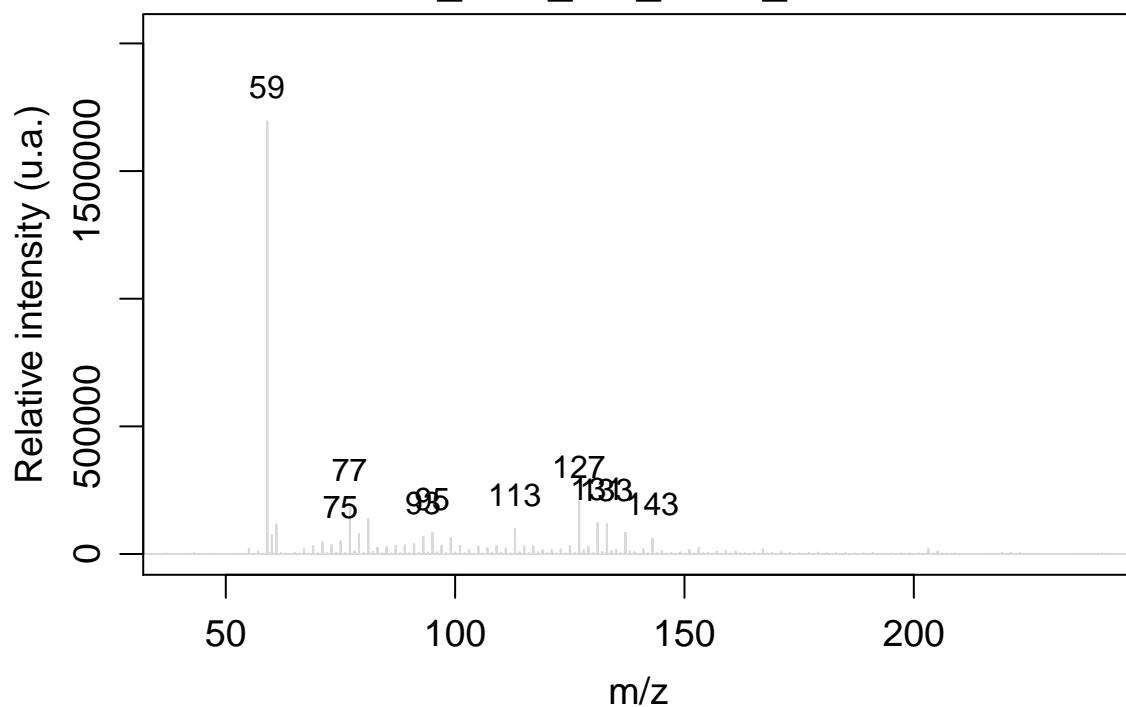
**s2\_Ch1\_!v4\_c039\_n152**



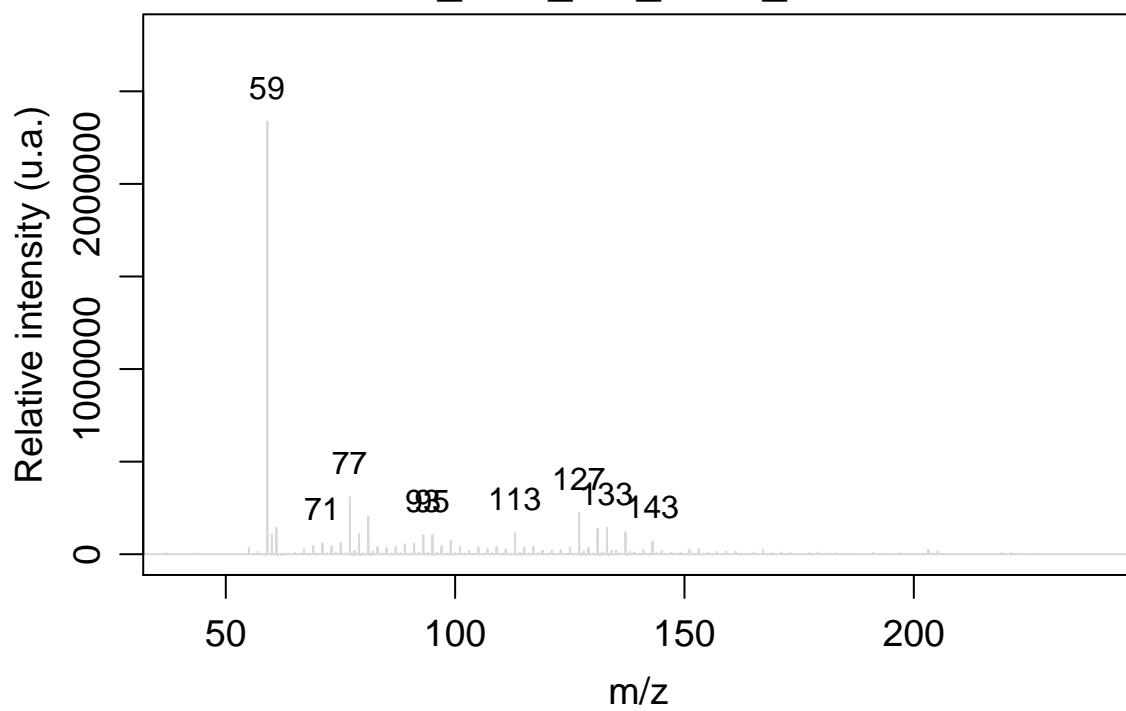
**s2\_Ch1\_!v4\_c041\_n160**



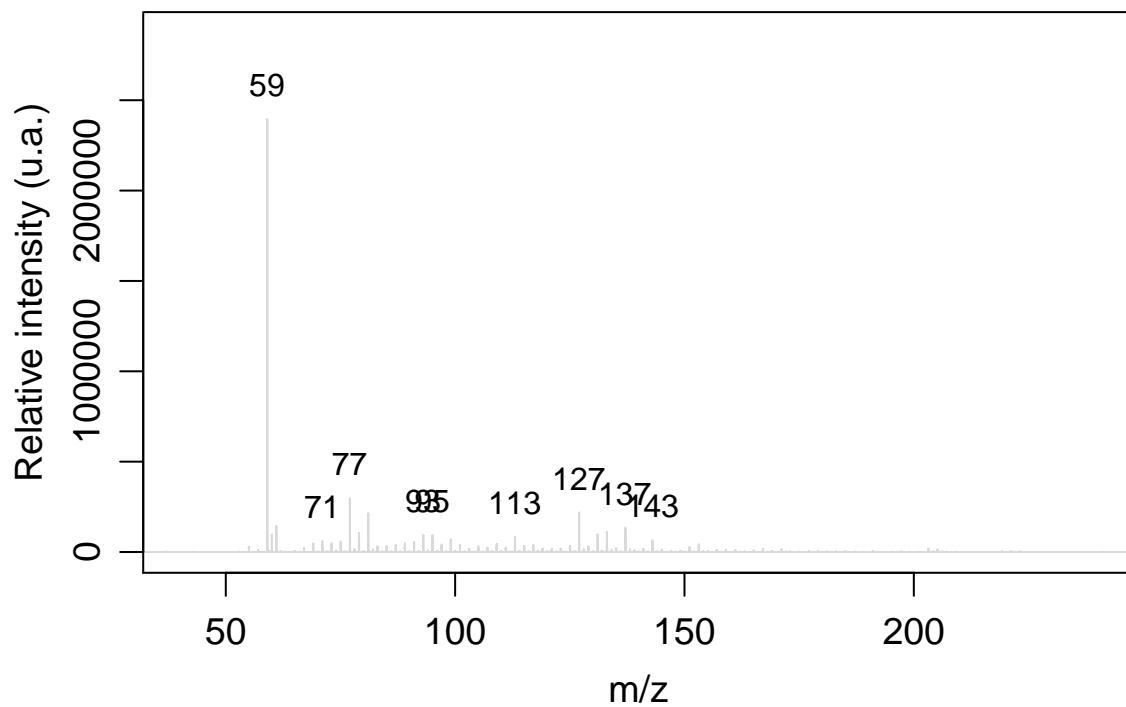
**s2\_Ch1\_!v4\_c043\_n168**



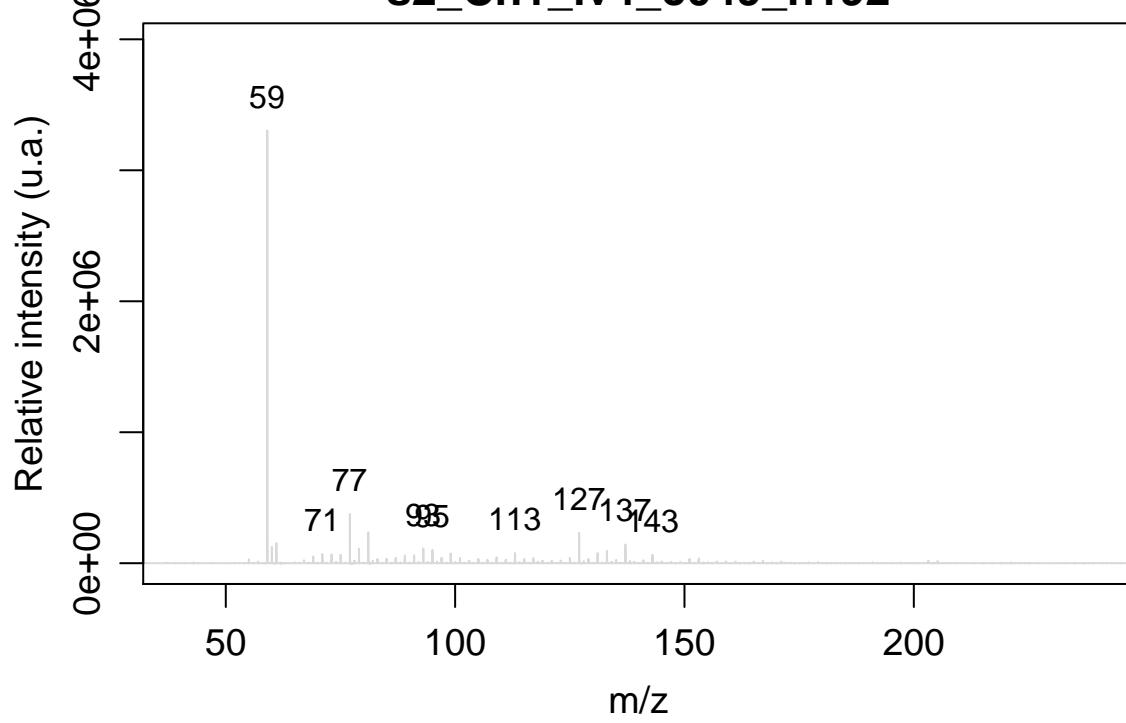
**s2\_Ch1\_!v4\_c045\_n176**



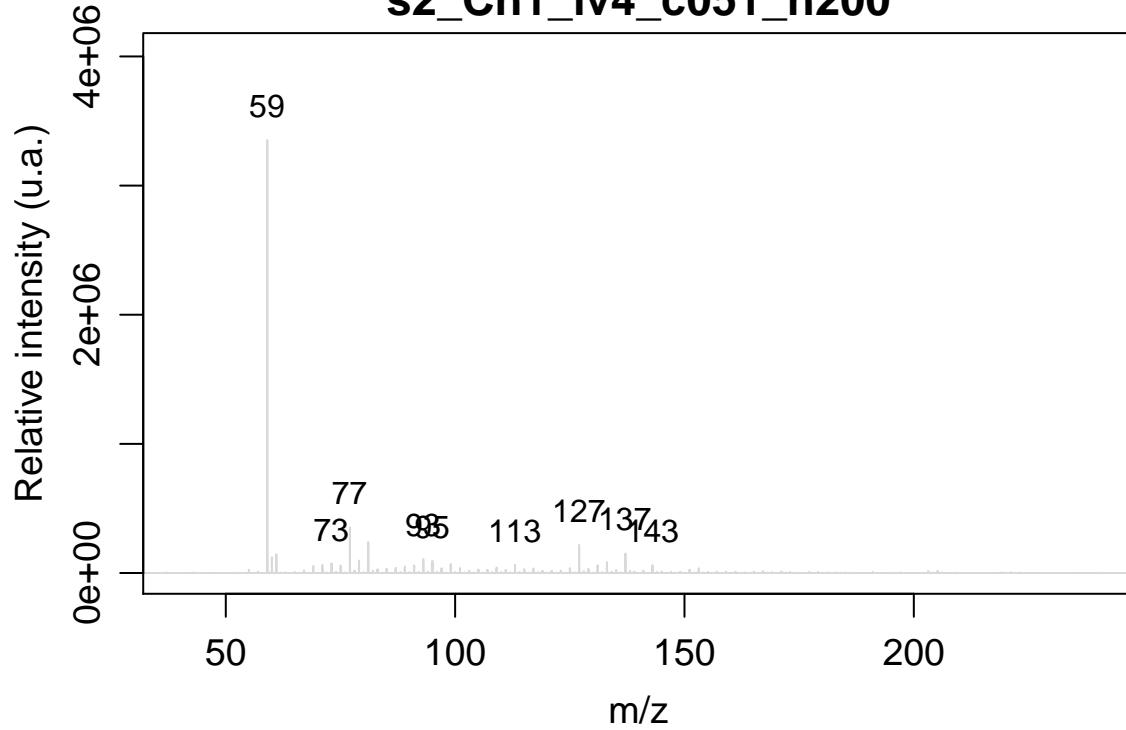
**s2\_Ch1\_!v4\_c047\_n184**



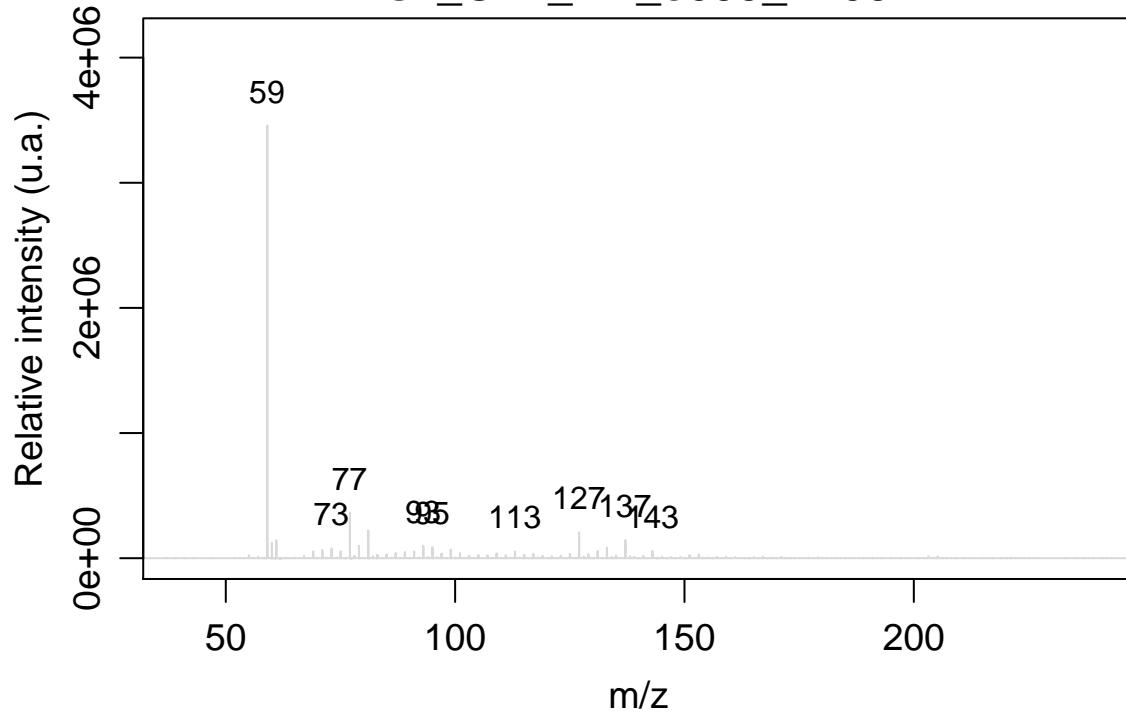
**s2\_Ch1\_!v4\_c049\_n192**



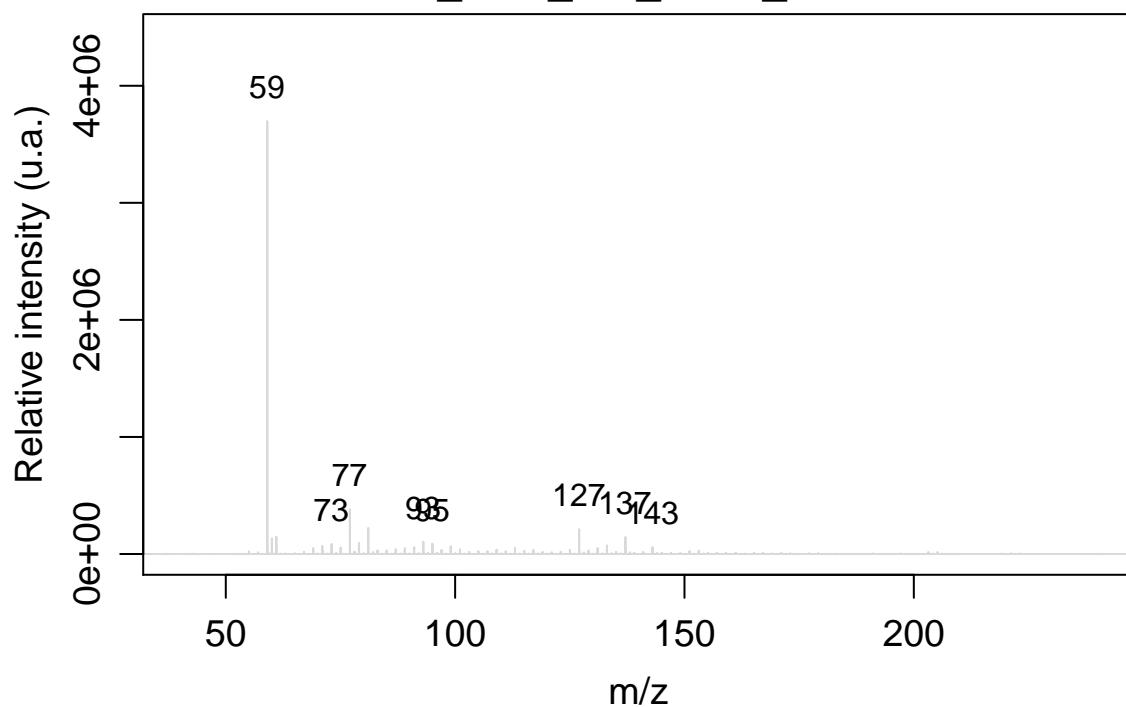
**s2\_Ch1\_!v4\_c051\_n200**



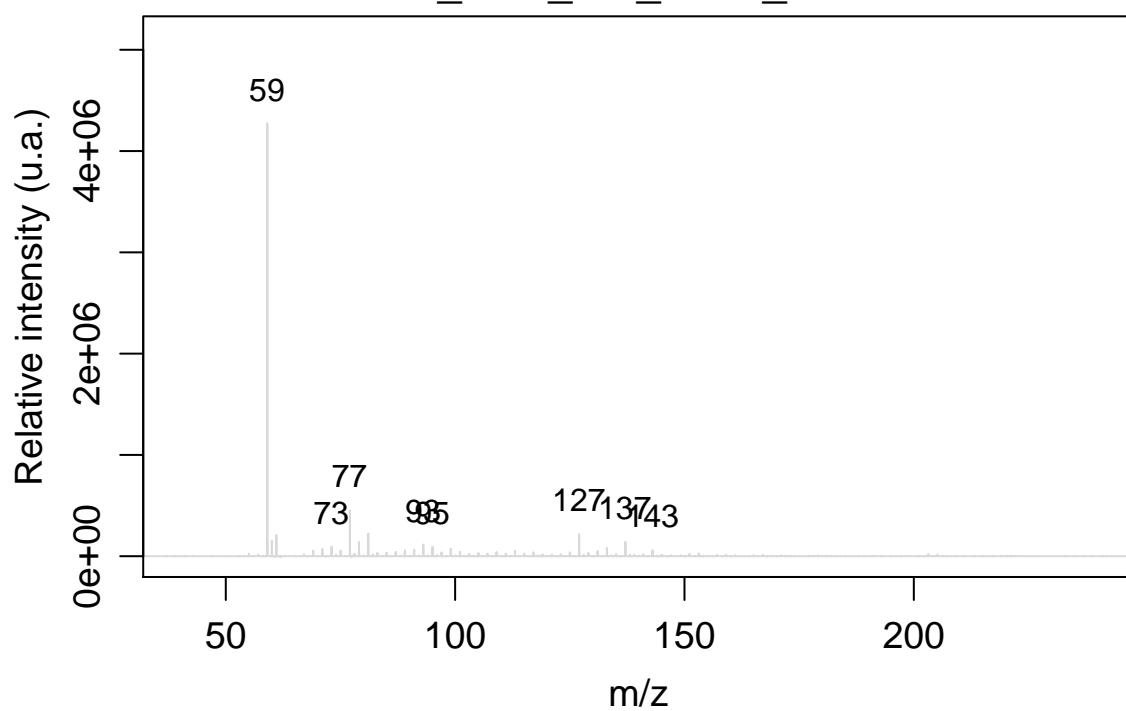
**s2\_Ch1\_!v4\_c053\_n208**



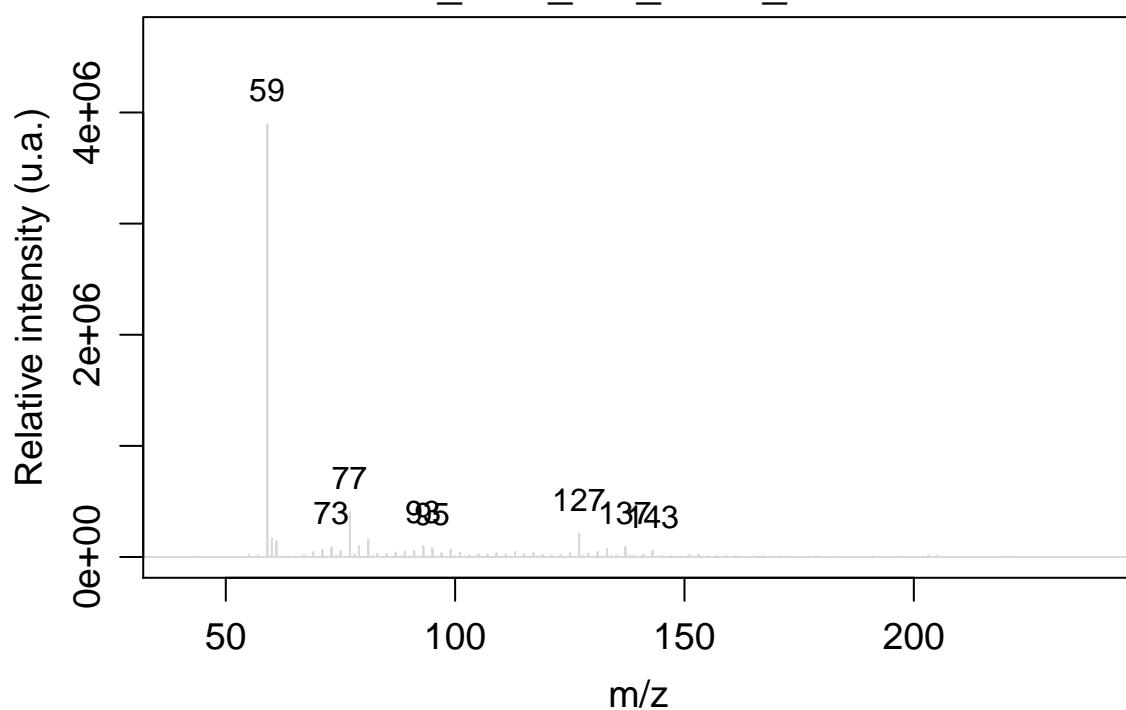
**s2\_Ch1\_!v4\_c055\_n216**



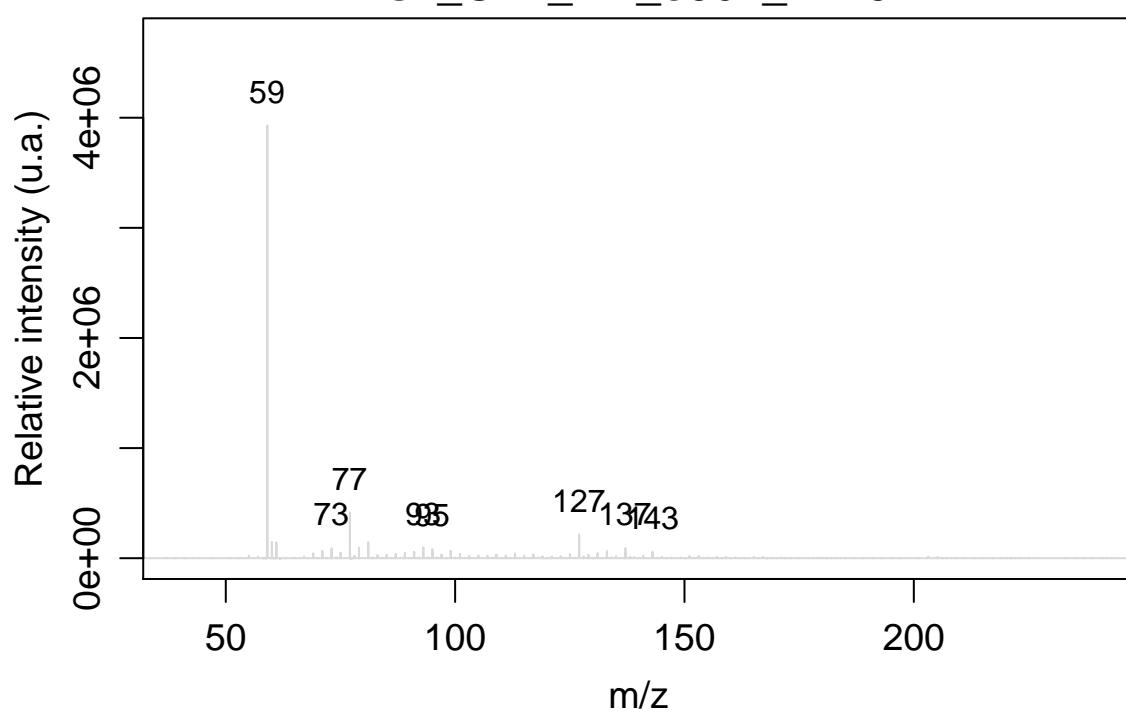
**s2\_Ch1\_!v4\_c057\_n224**



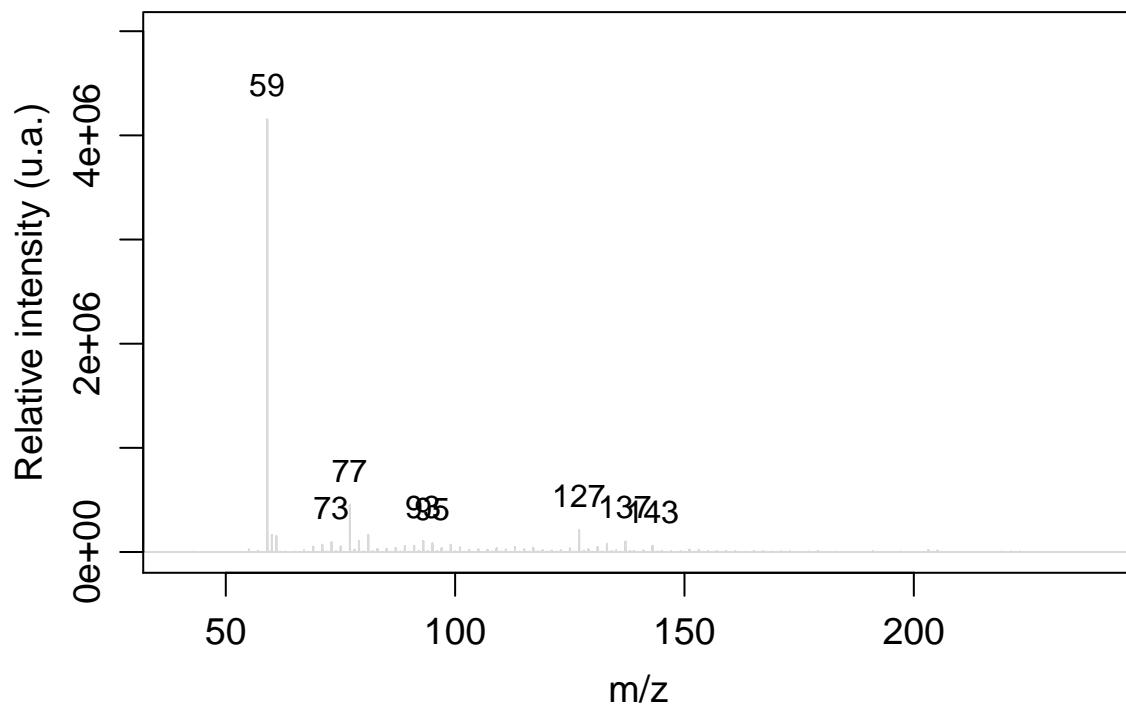
**s2\_Ch1\_!v4\_c059\_n232**



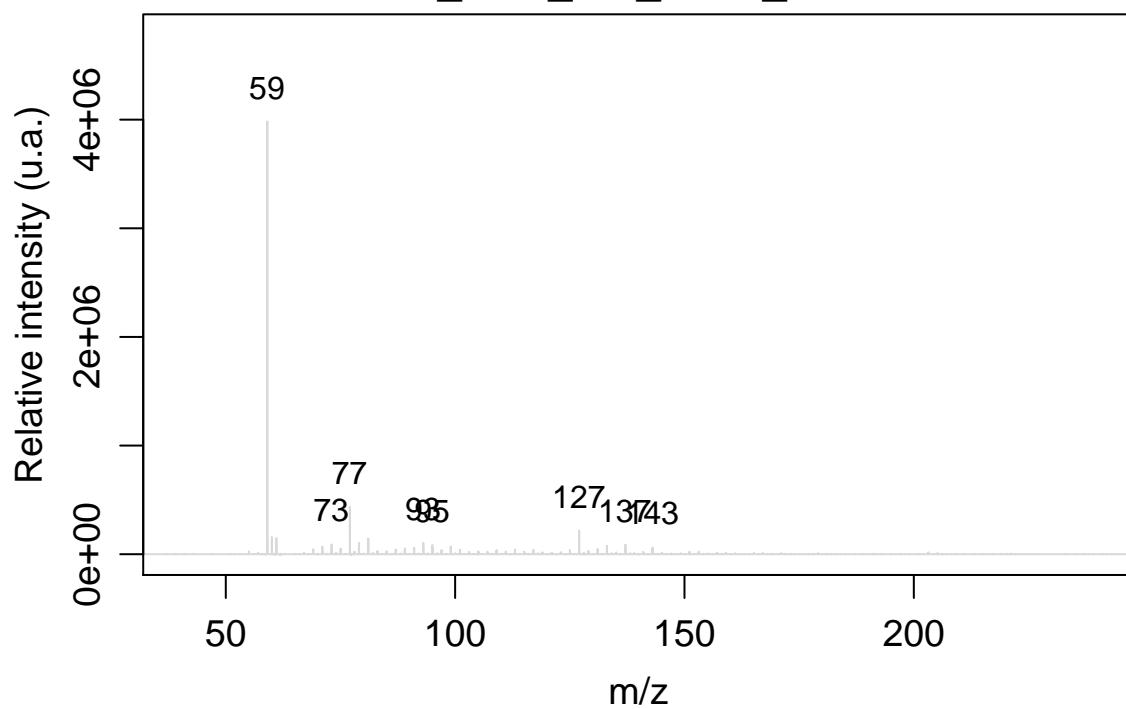
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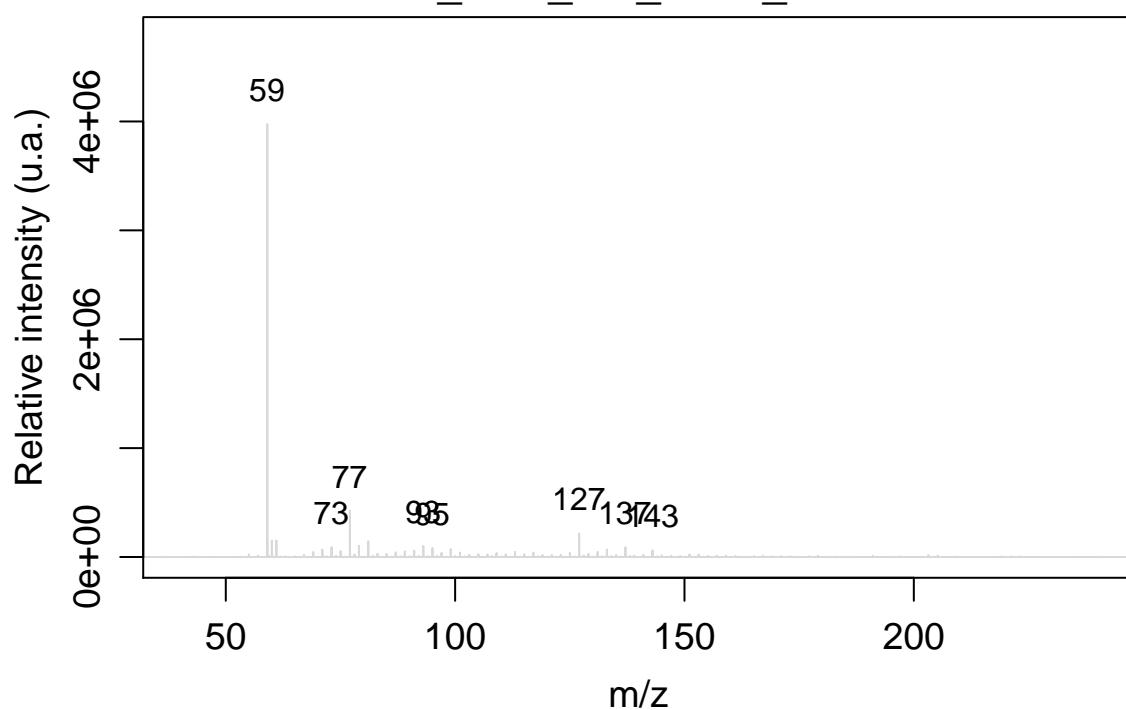
**s2\_Ch1\_!v4\_c063\_n248**



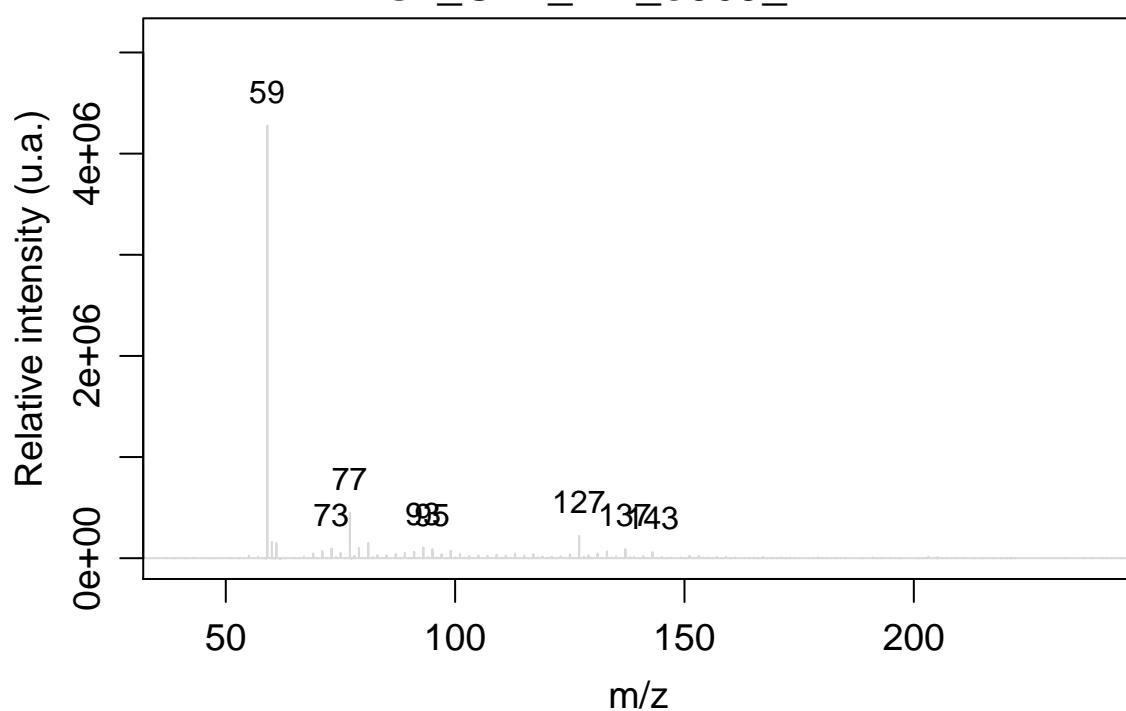
**s2\_Ch1\_!v4\_c065\_n256**



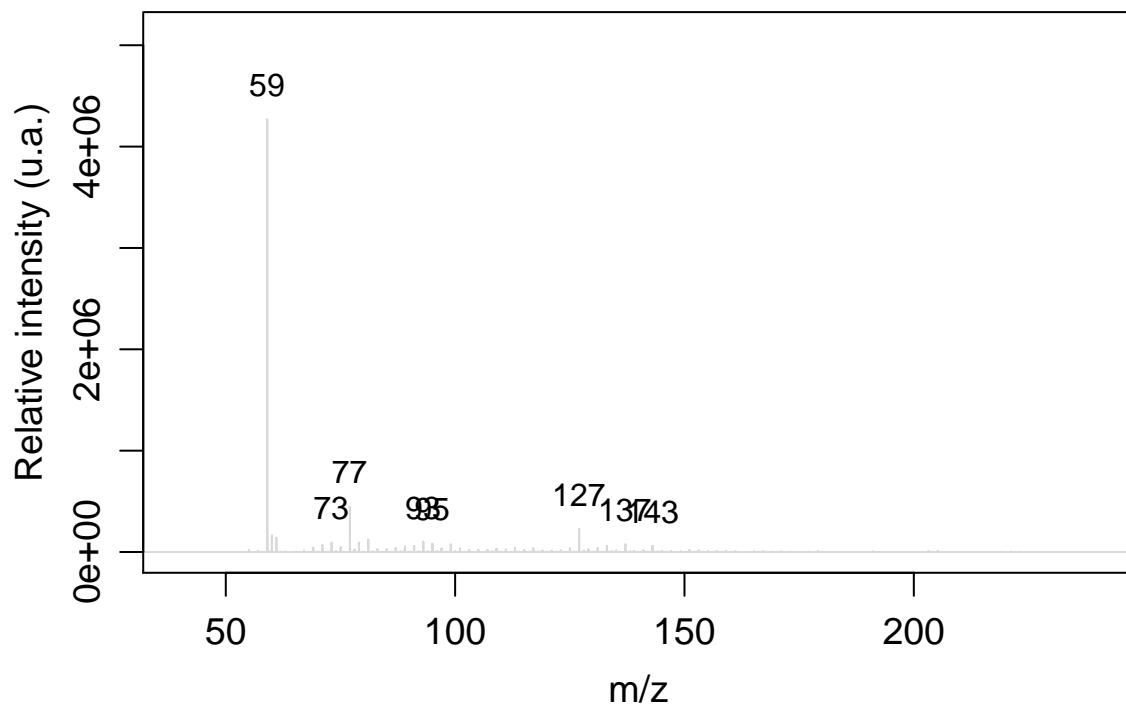
**s2\_Ch1\_!v4\_c067\_n264**



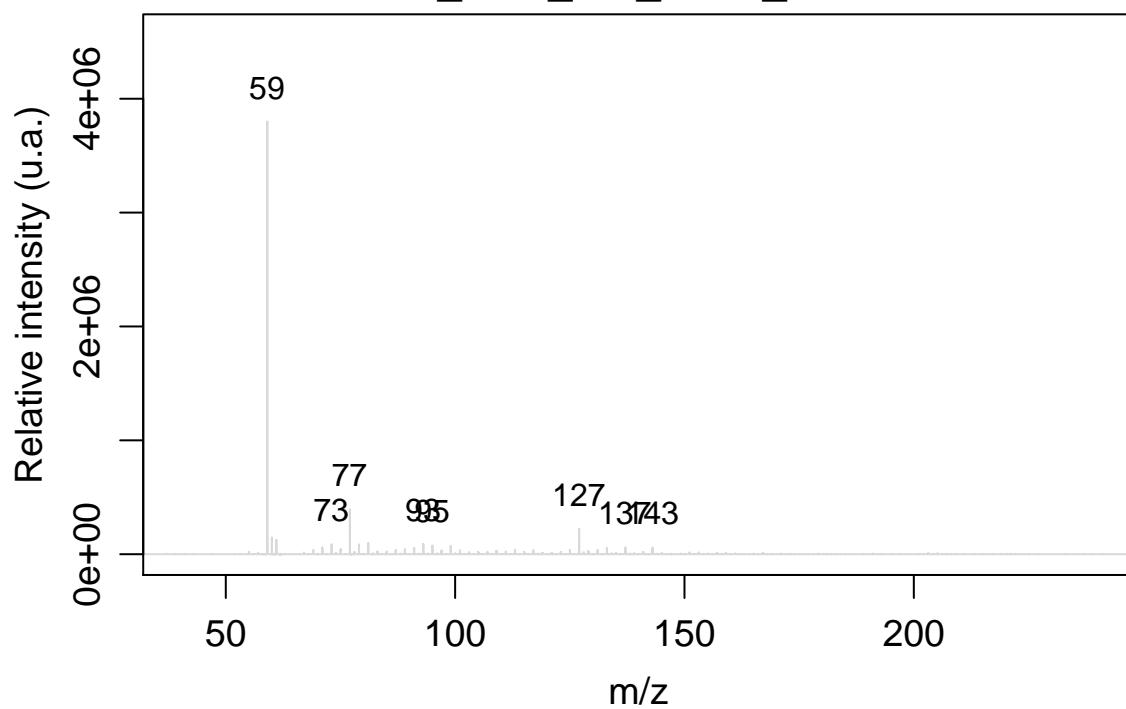
**s2\_Ch1\_!v4\_c069\_n272**



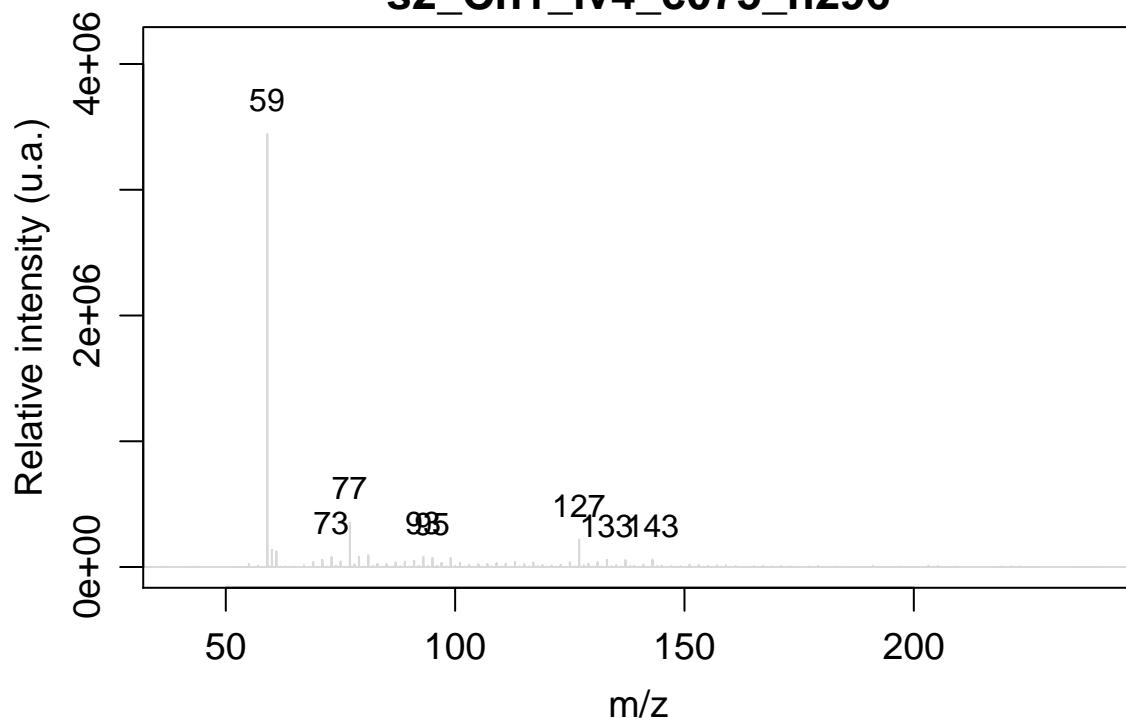
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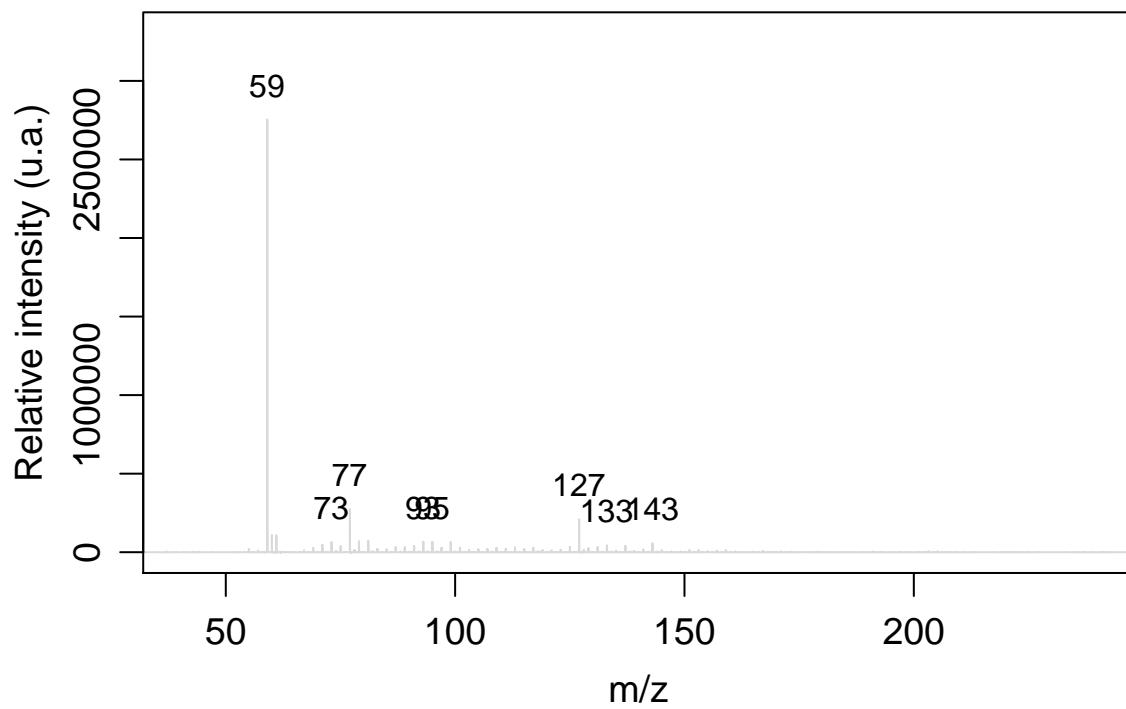
**s2\_Ch1\_!v4\_c073\_n288**



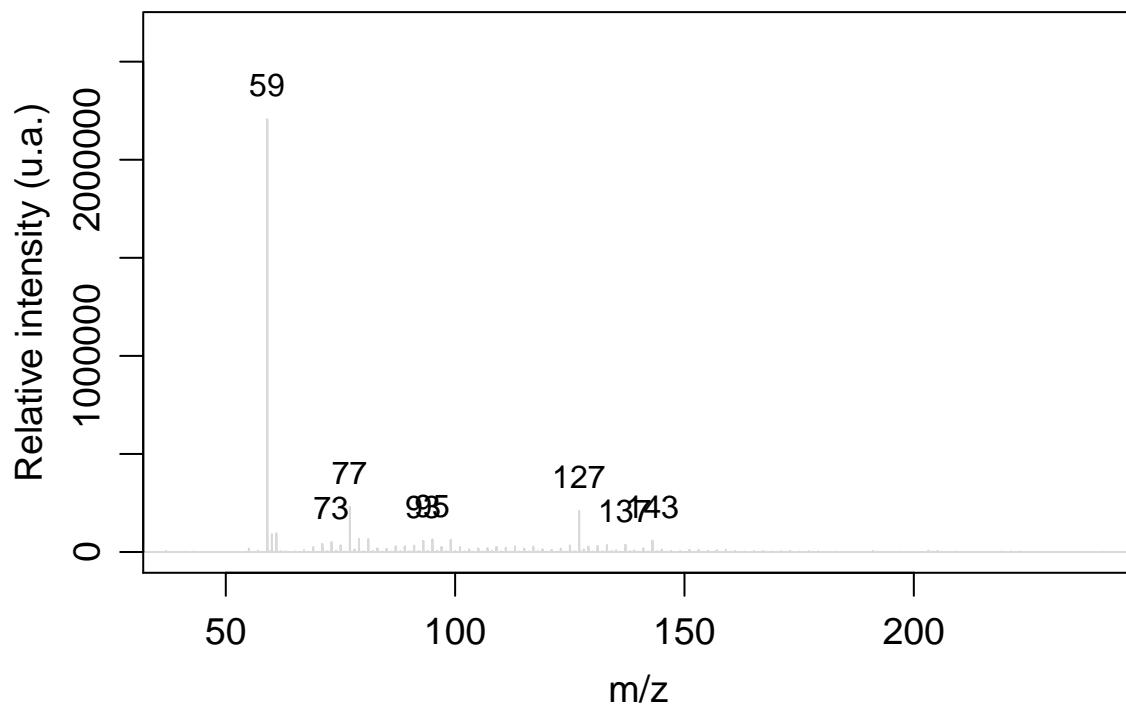
**s2\_Ch1\_!v4\_c075\_n296**



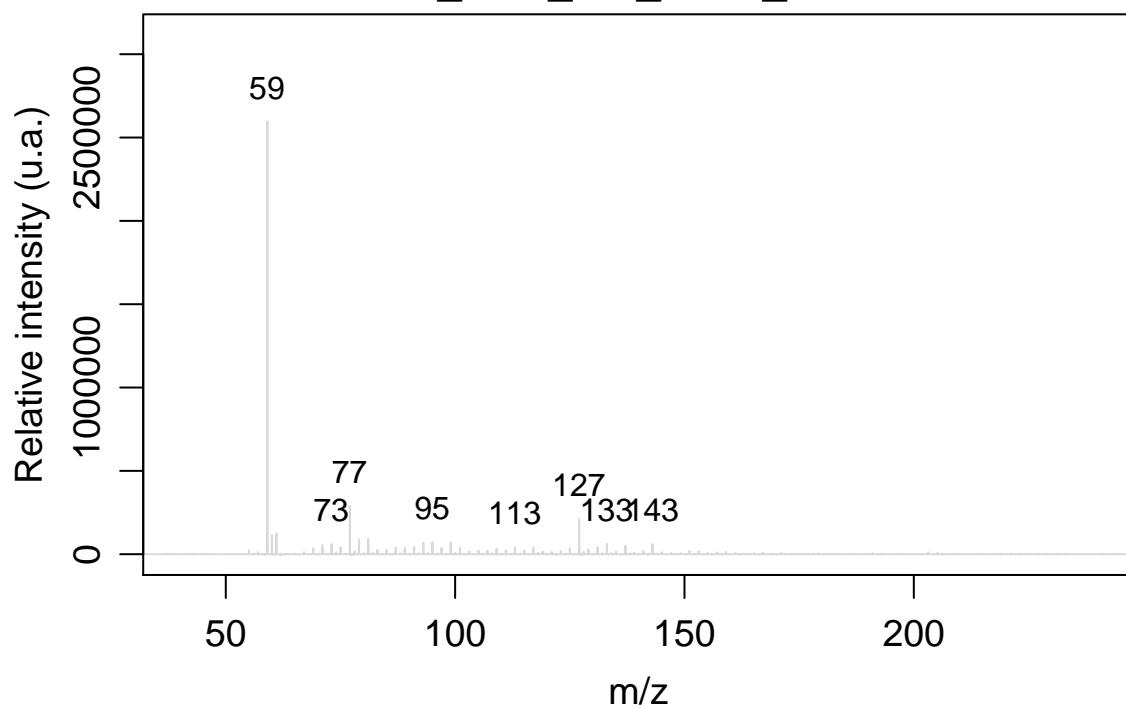
**s2\_Ch1\_!v4\_c077\_n304**



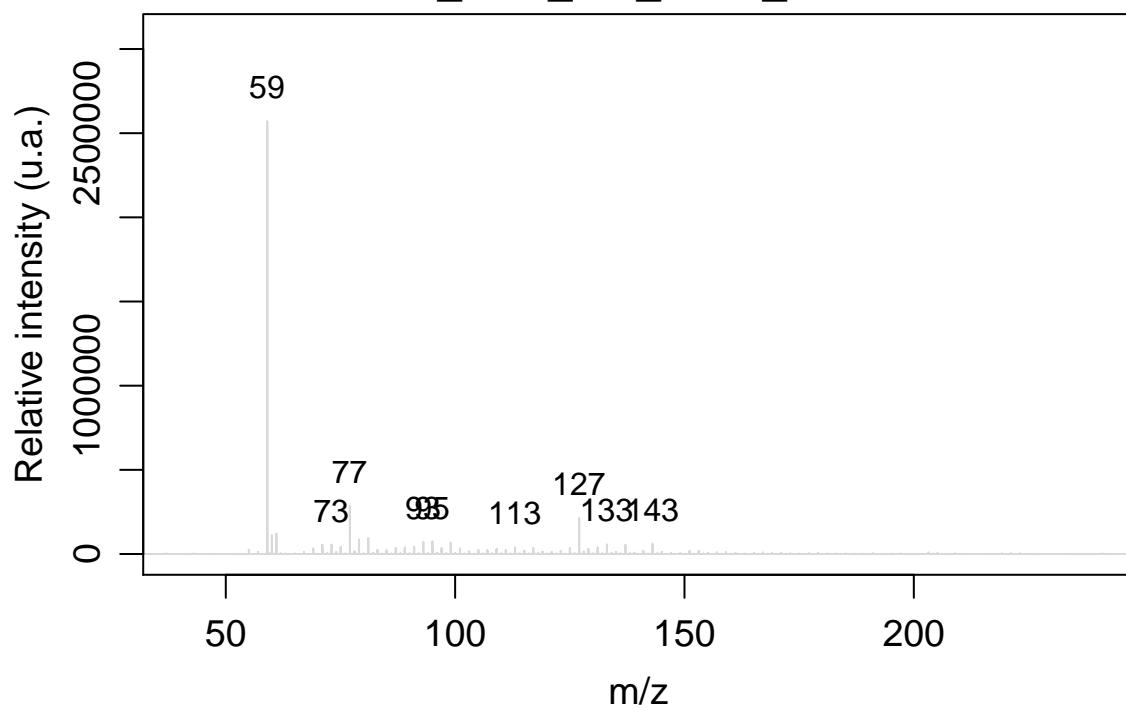
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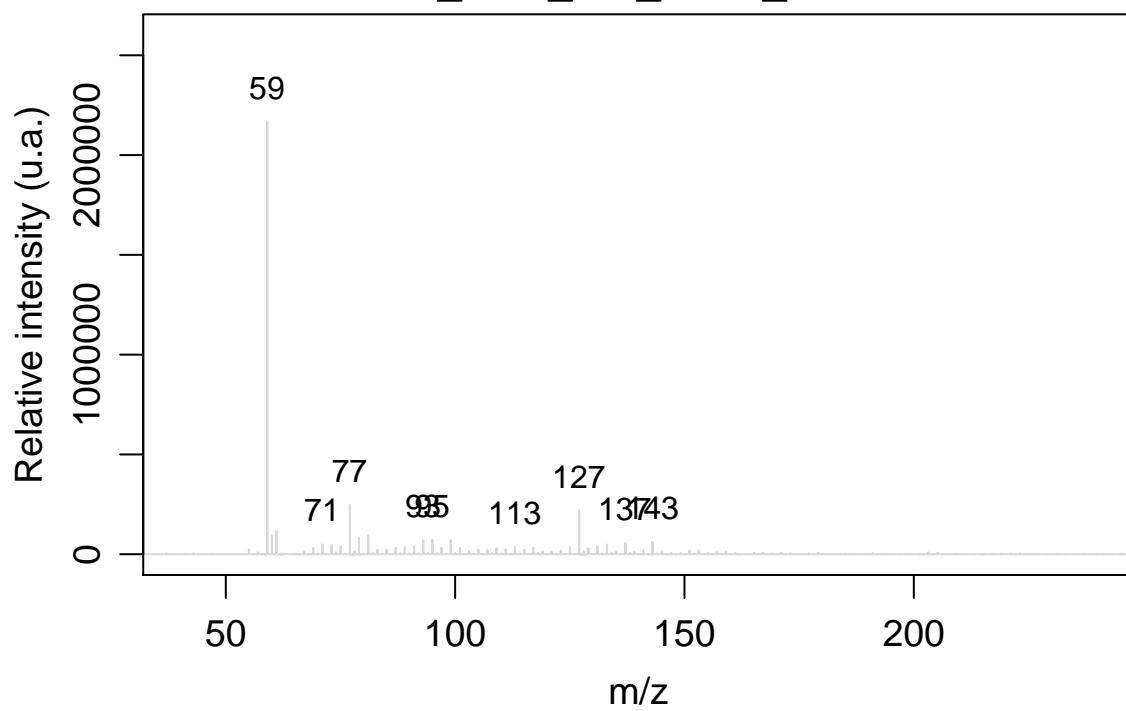
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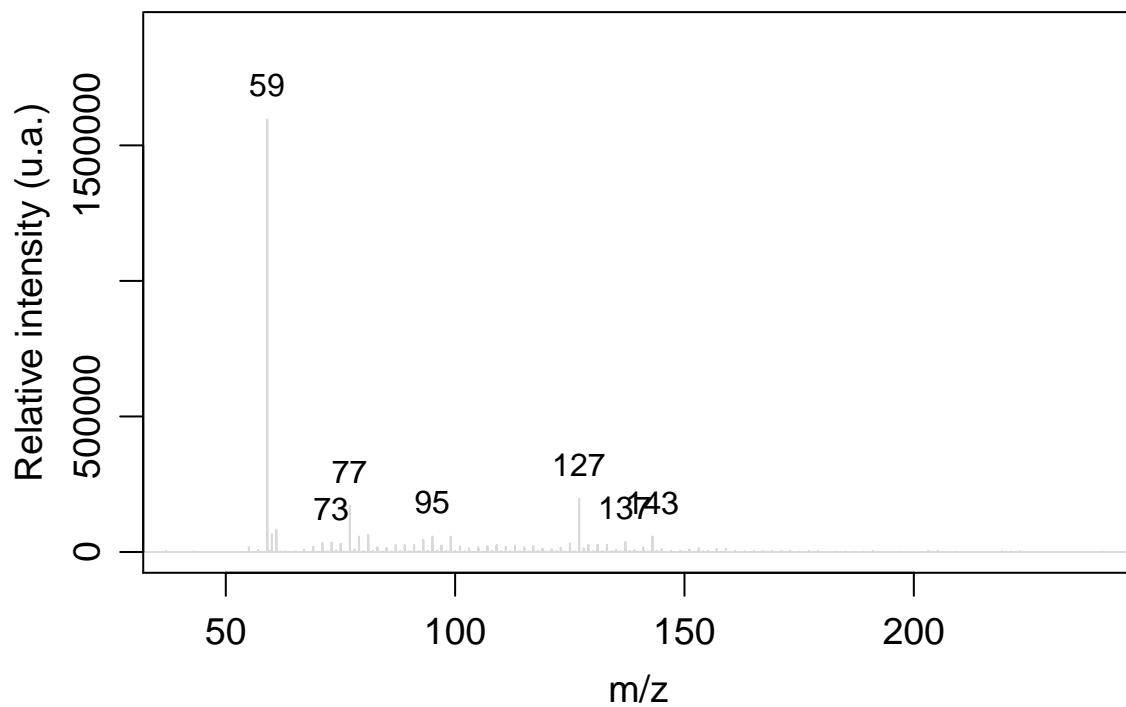
**s2\_Ch1\_!v4\_c083\_n328**



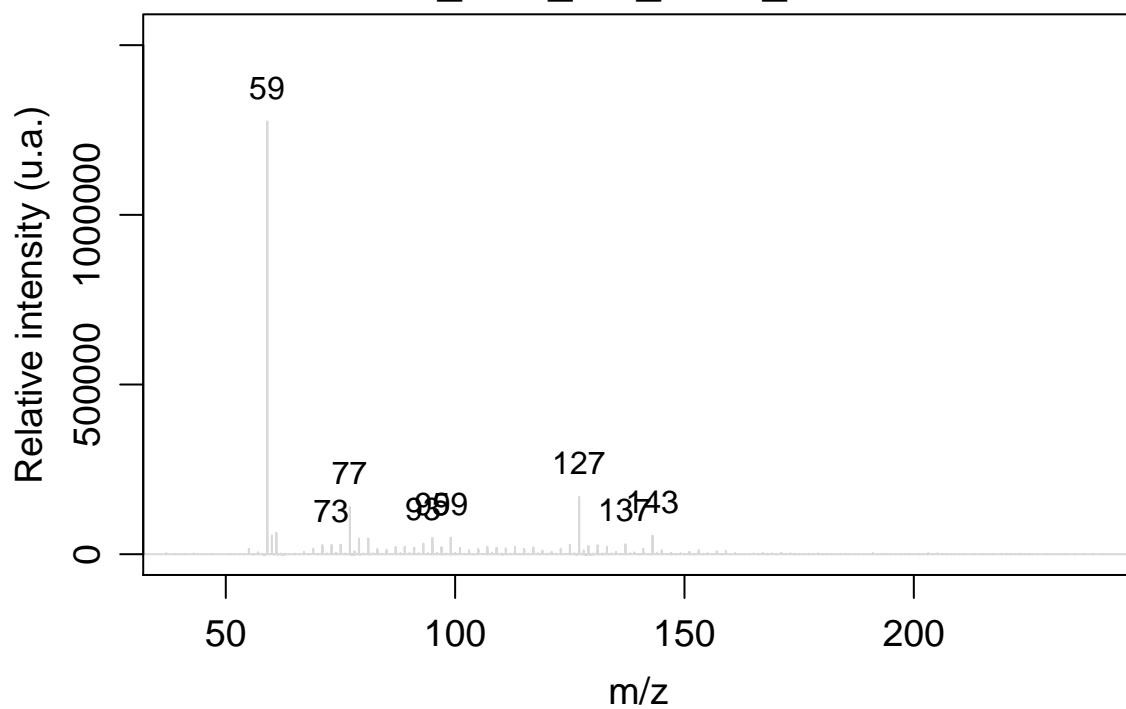
**s2\_Ch1\_!v4\_c085\_n336**



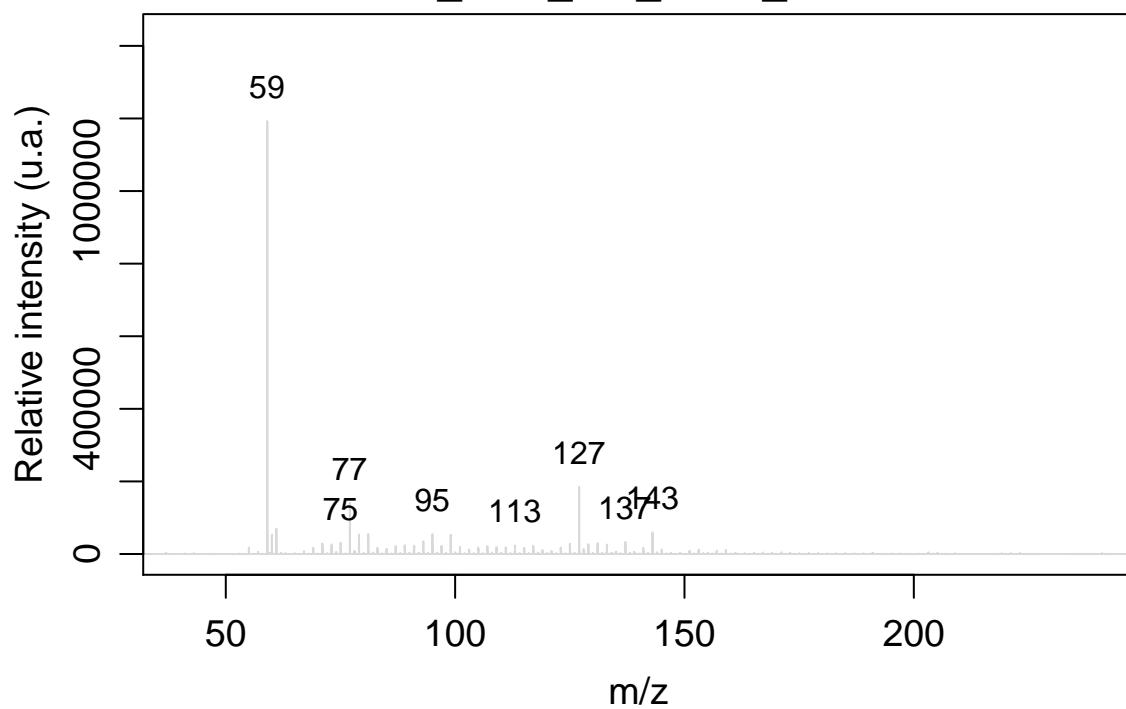
**s2\_Ch1\_!v4\_c087\_n344**



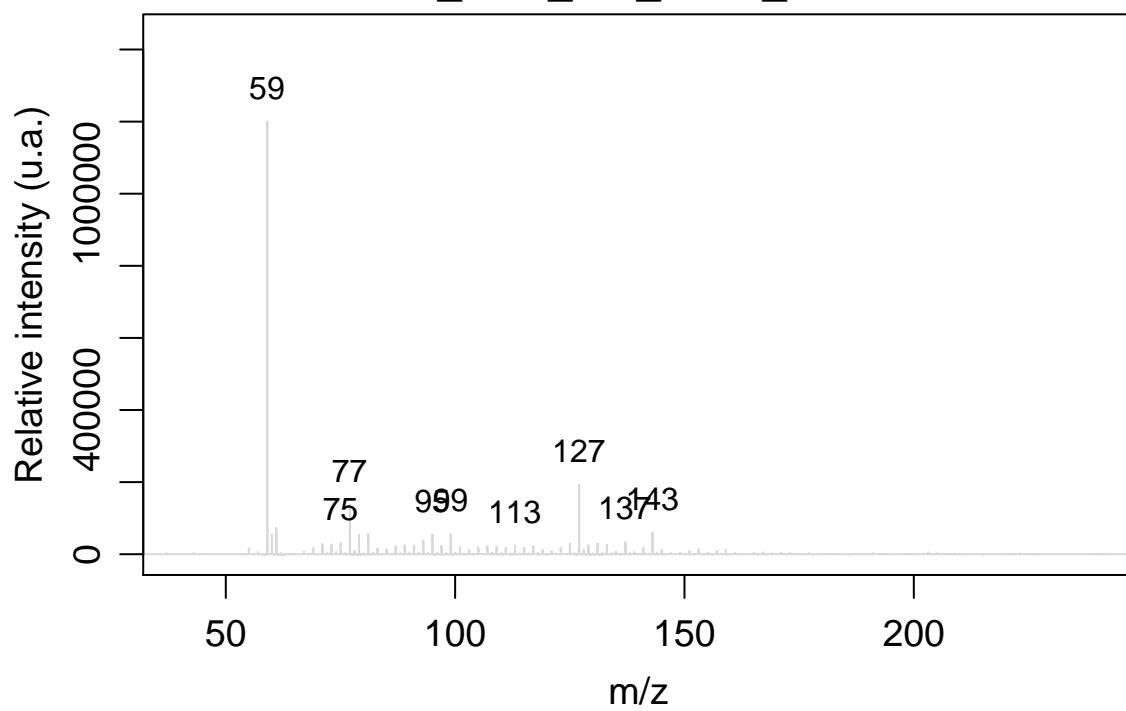
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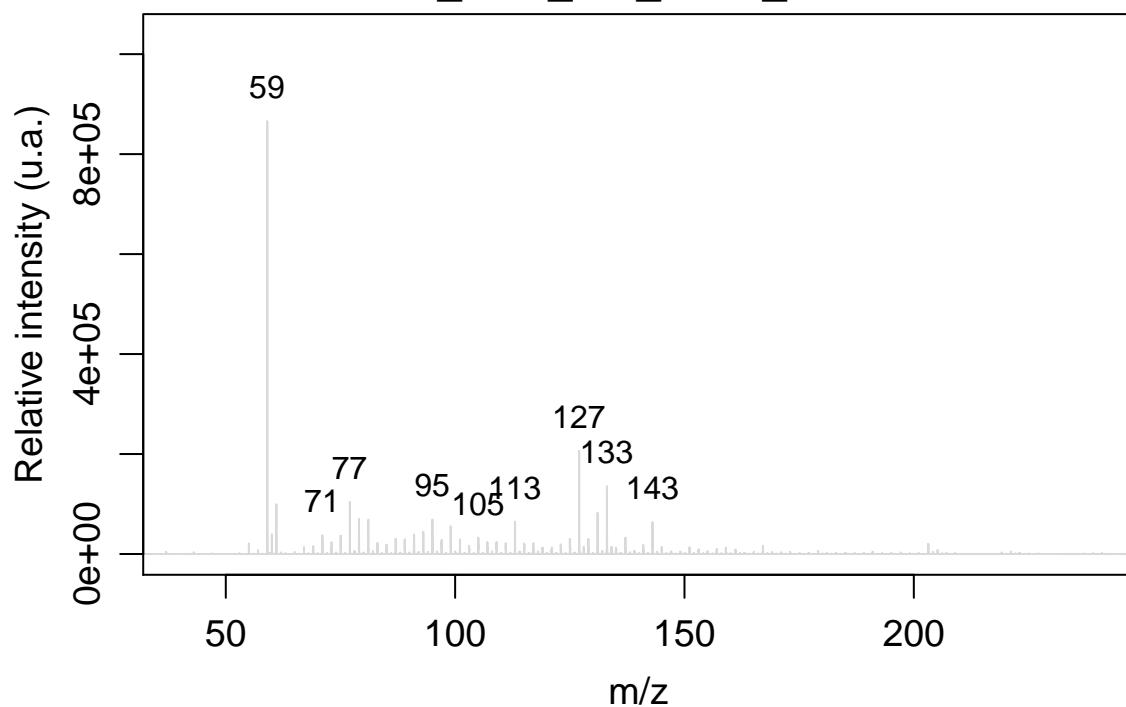
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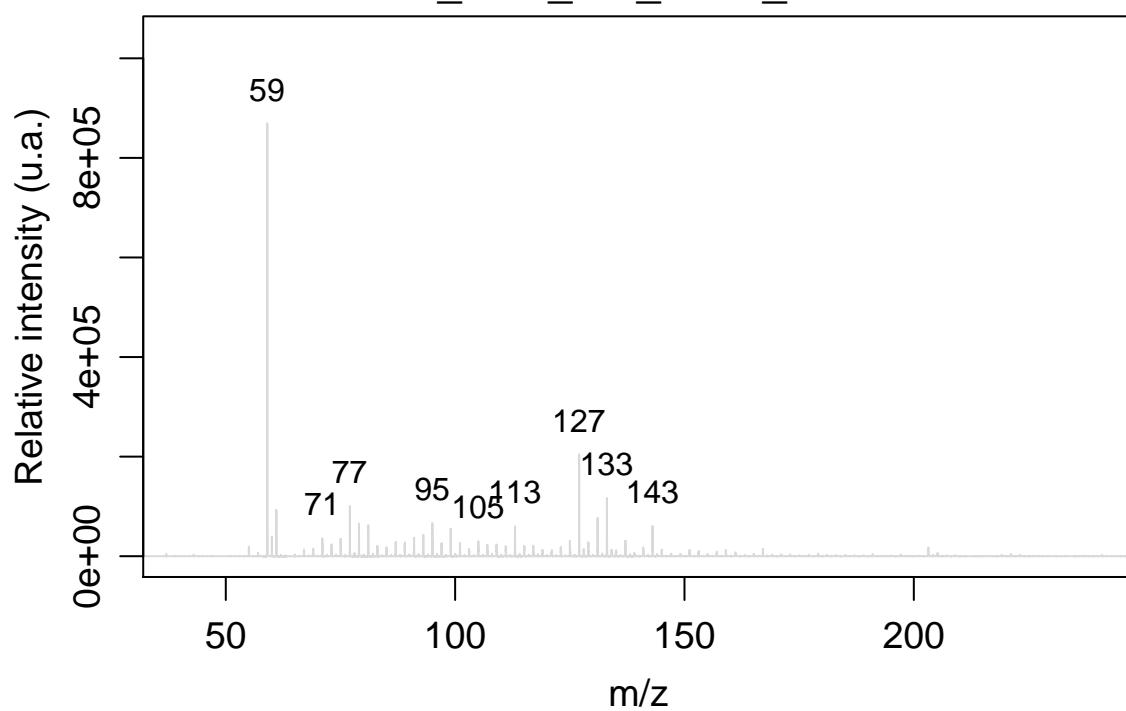
**s2\_Ch1\_!v4\_c093\_n368**



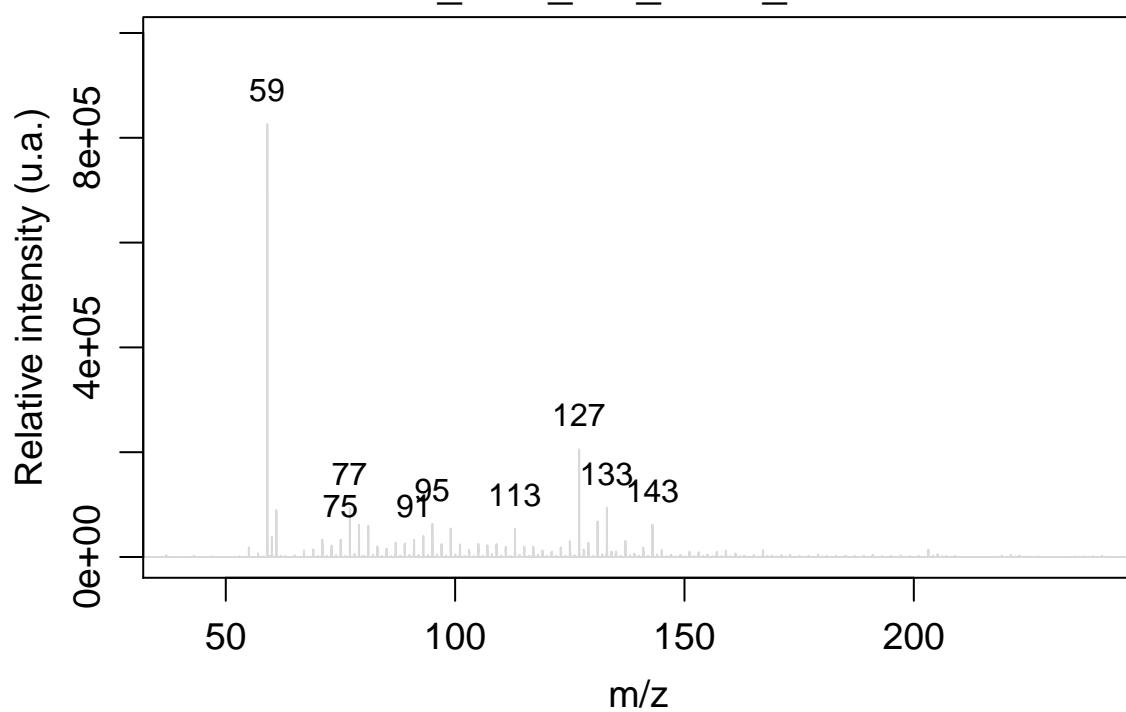
**s2\_Ch2\_1v5\_c025\_n097**



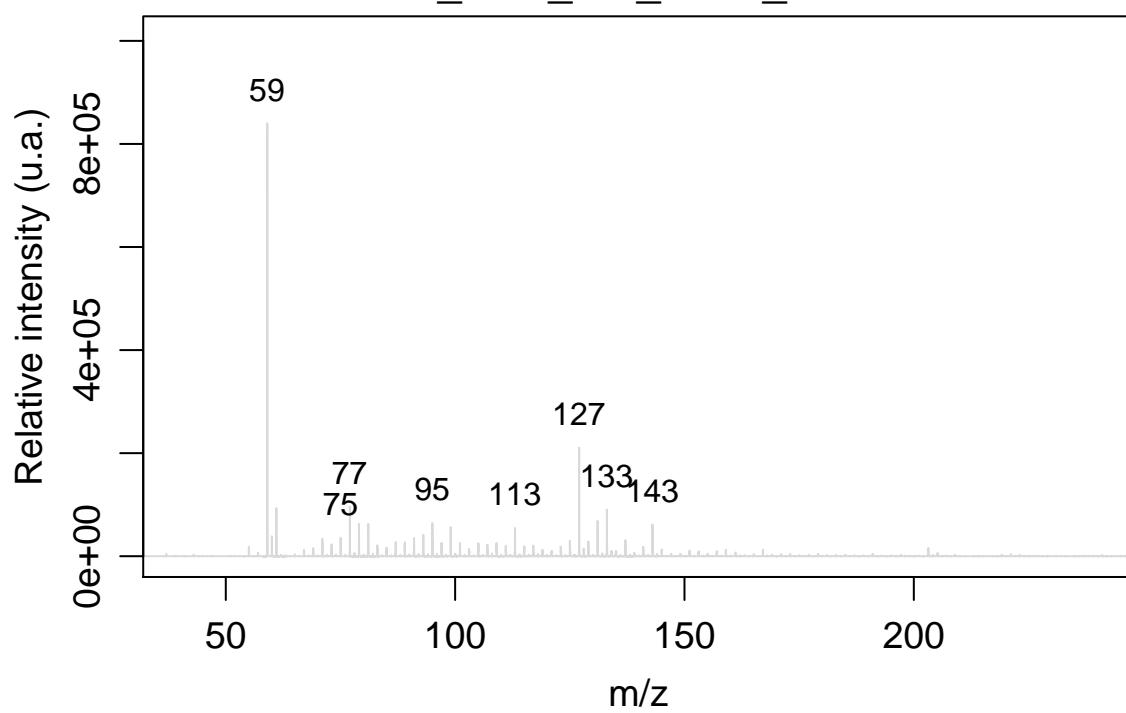
**s2\_Ch2\_1v5\_c027\_n105**



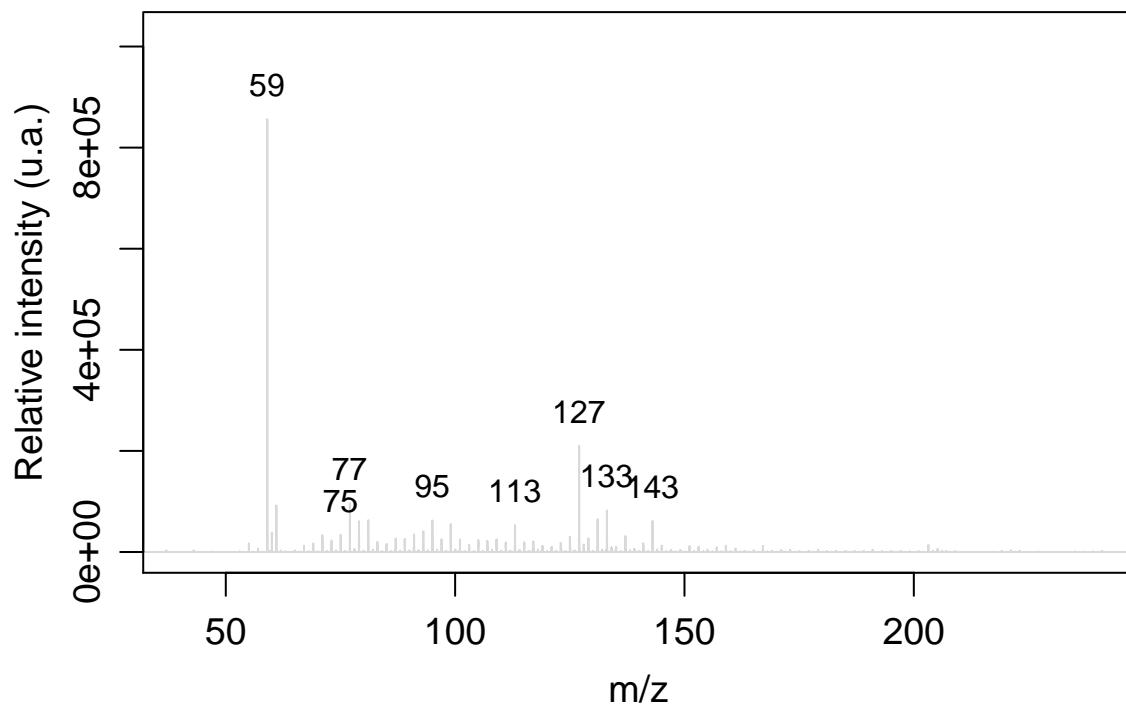
**s2\_Ch2\_!v5\_c029\_n113**



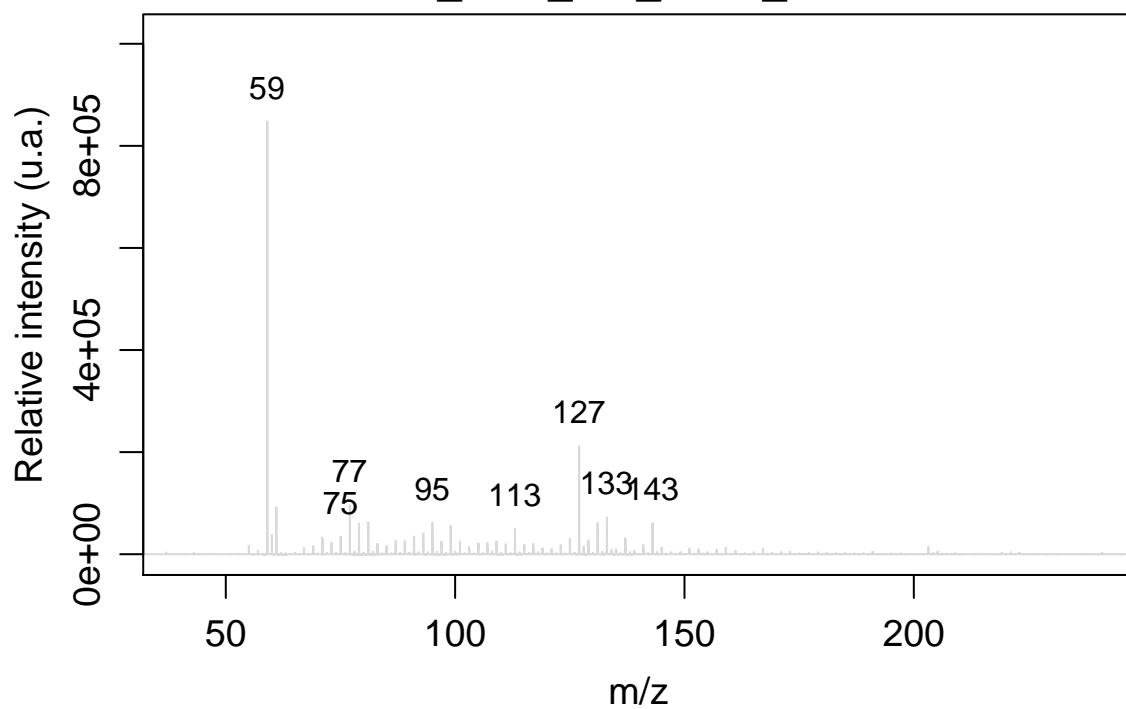
**s2\_Ch2\_!v5\_c031\_n121**



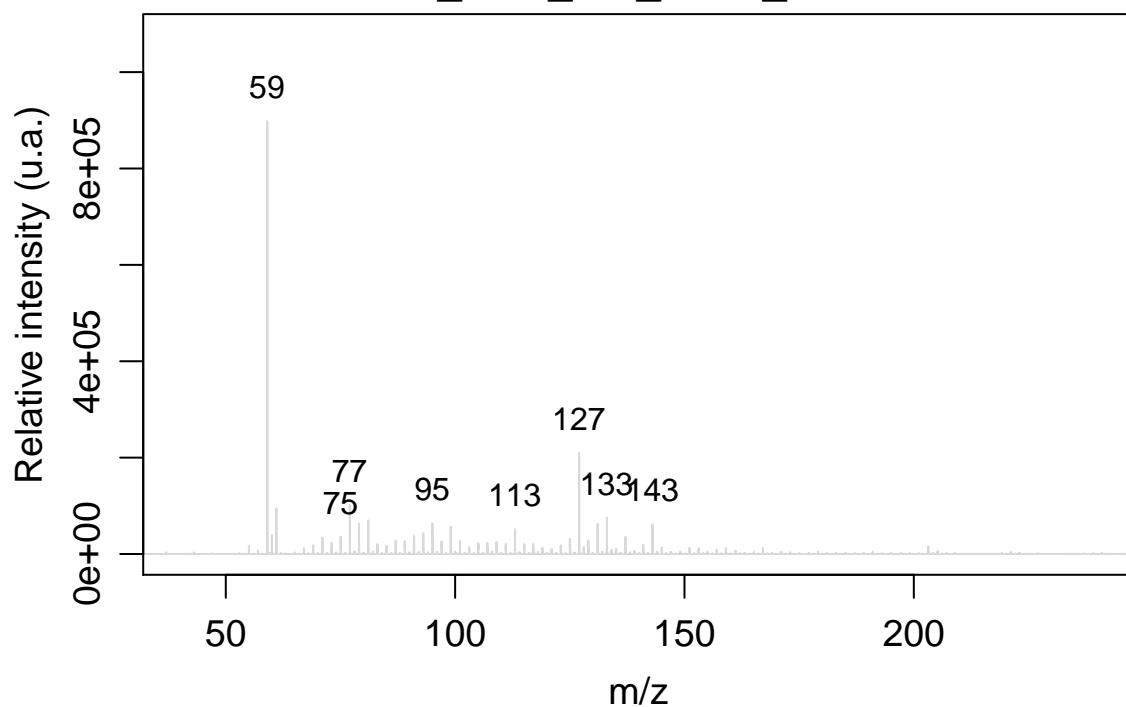
**s2\_Ch2\_!v5\_c033\_n129**



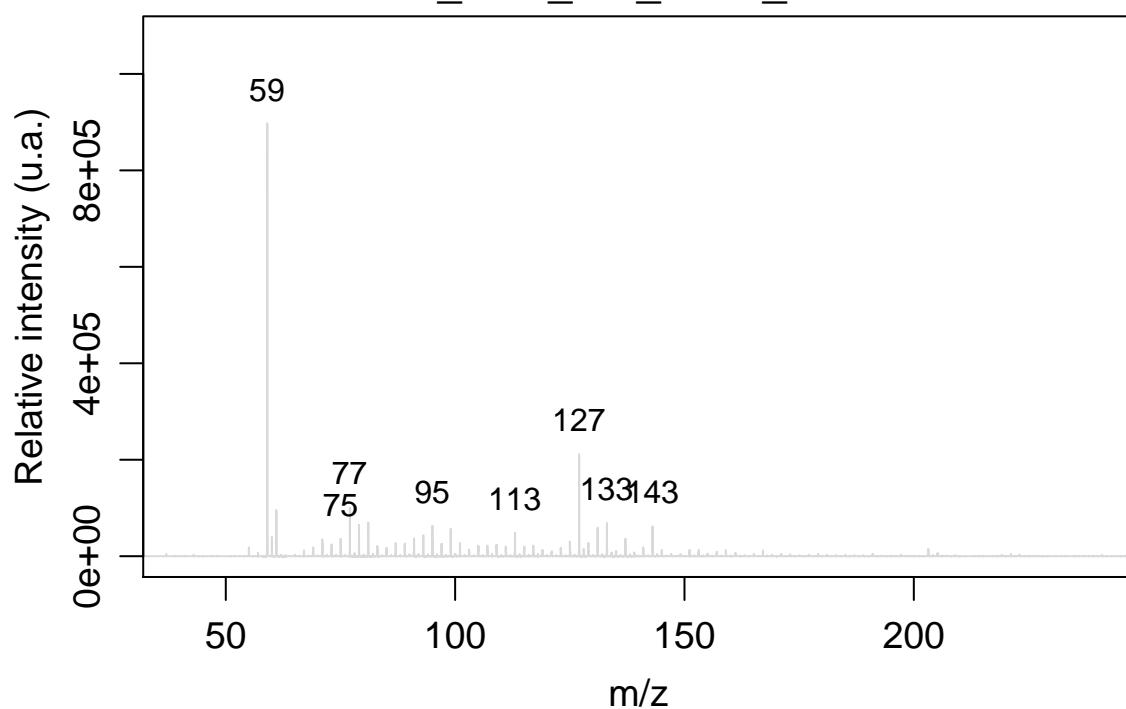
**s2\_Ch2\_!v5\_c035\_n137**



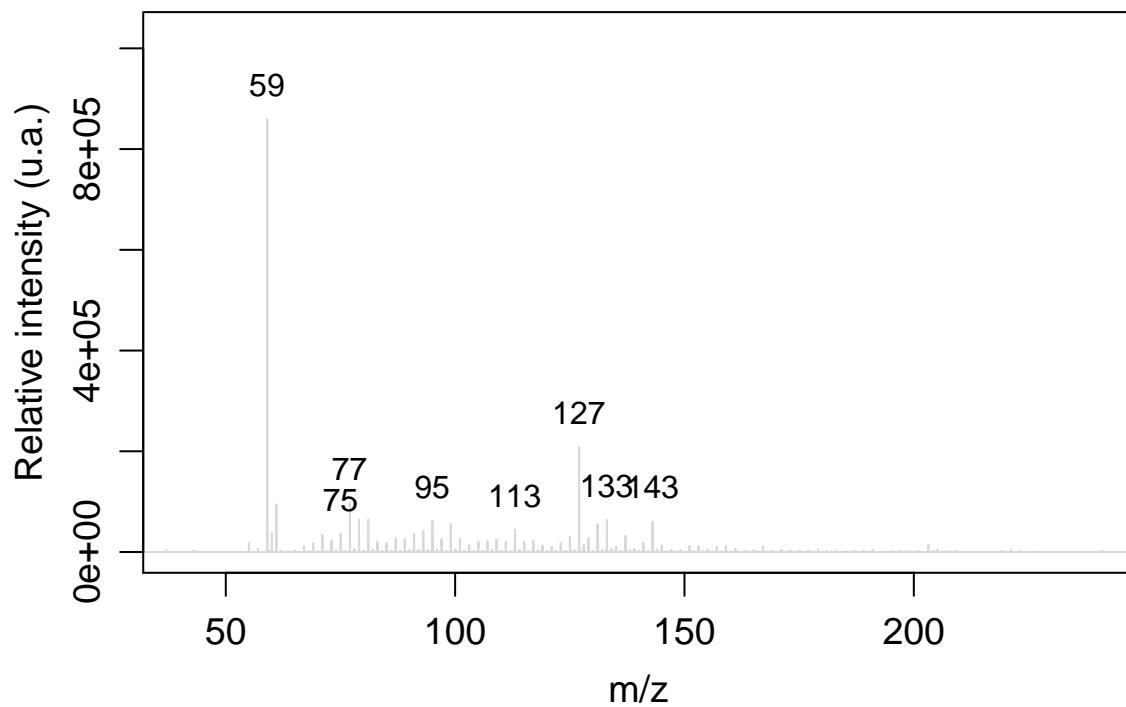
**s2\_Ch2\_!v5\_c037\_n145**



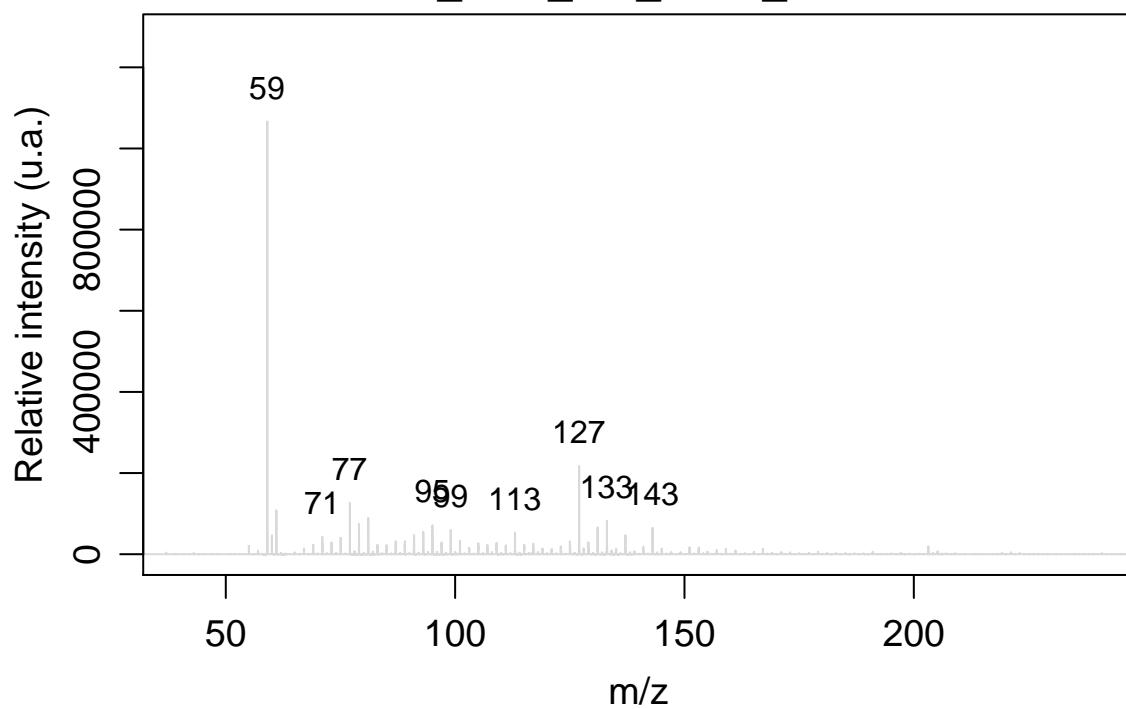
**s2\_Ch2\_!v5\_c039\_n153**



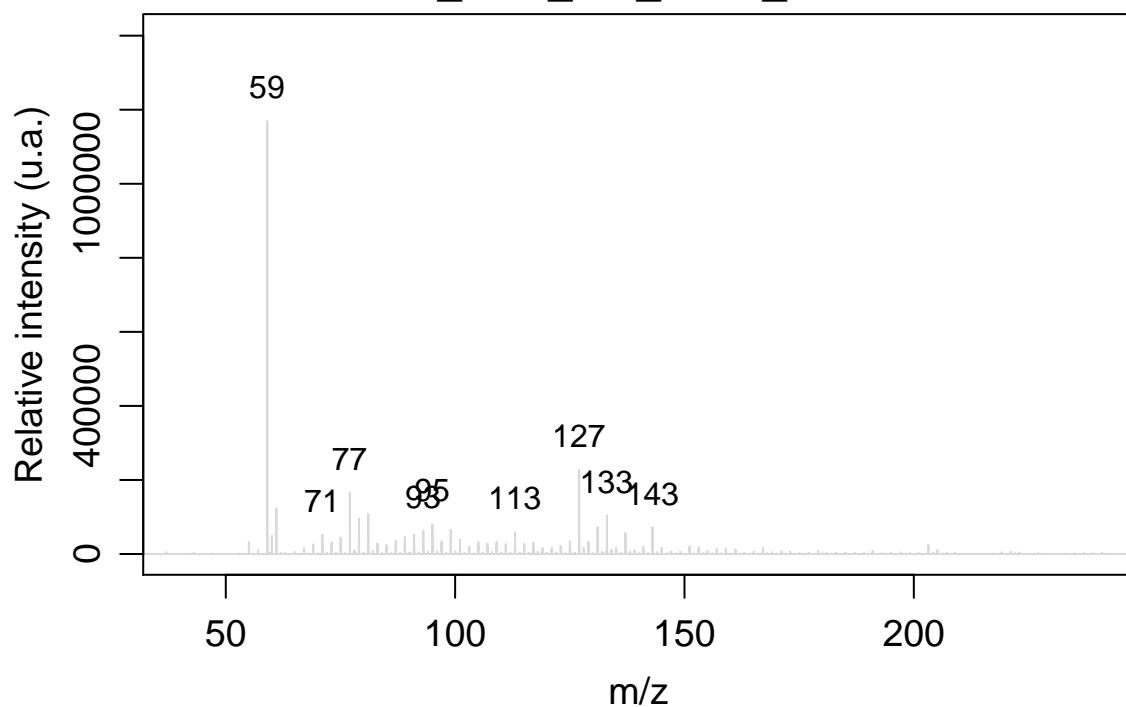
**s2\_Ch2\_!v5\_c041\_n161**



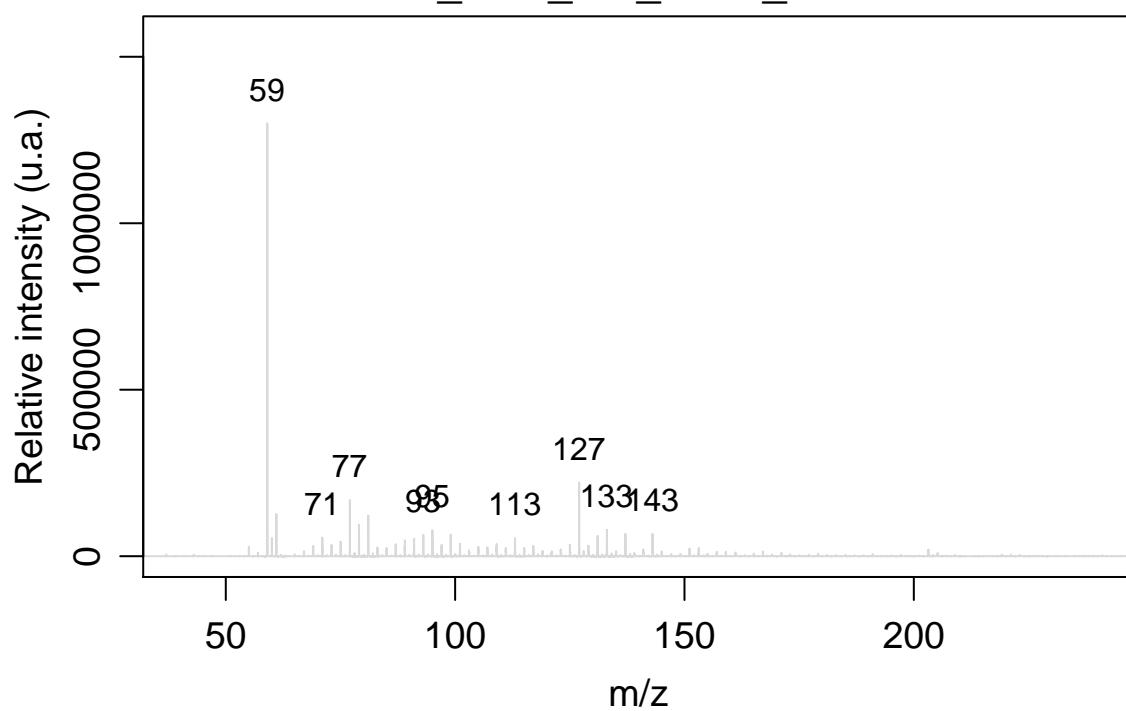
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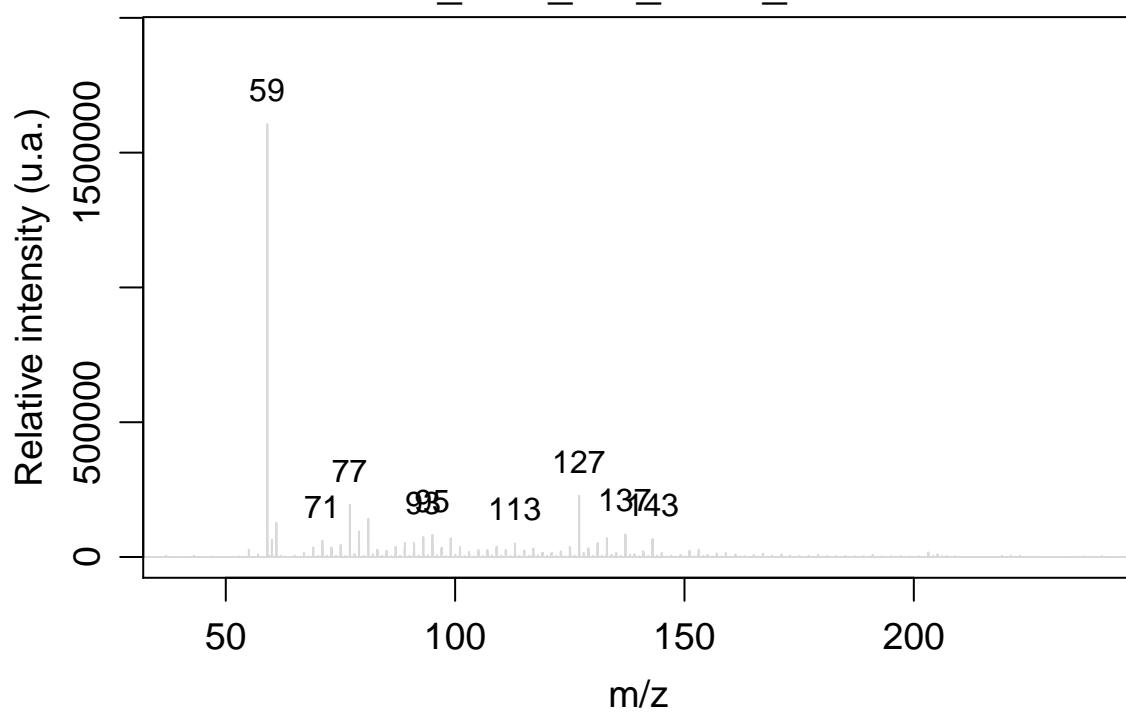
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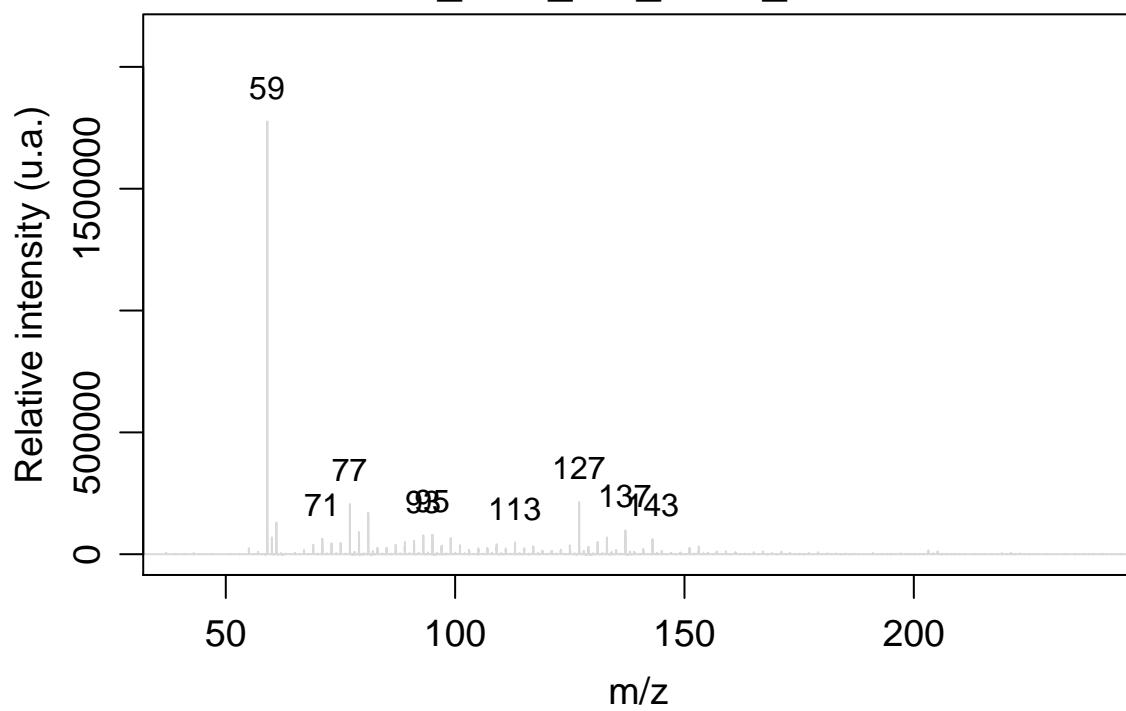
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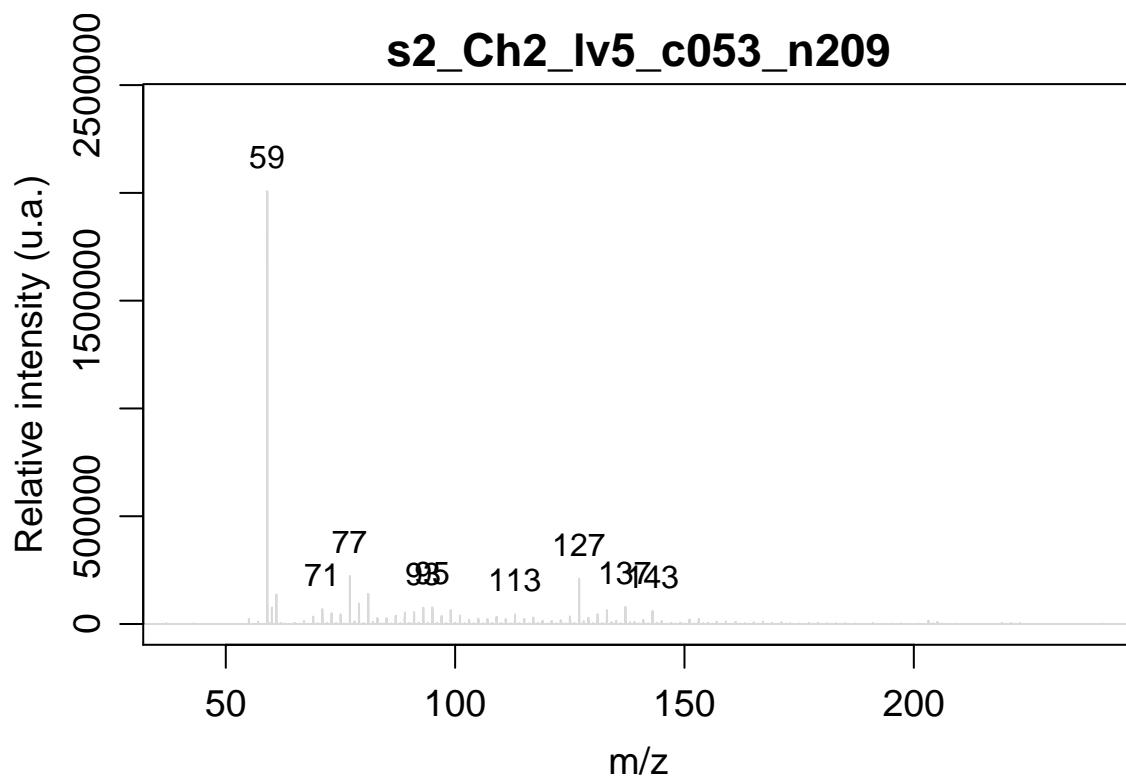
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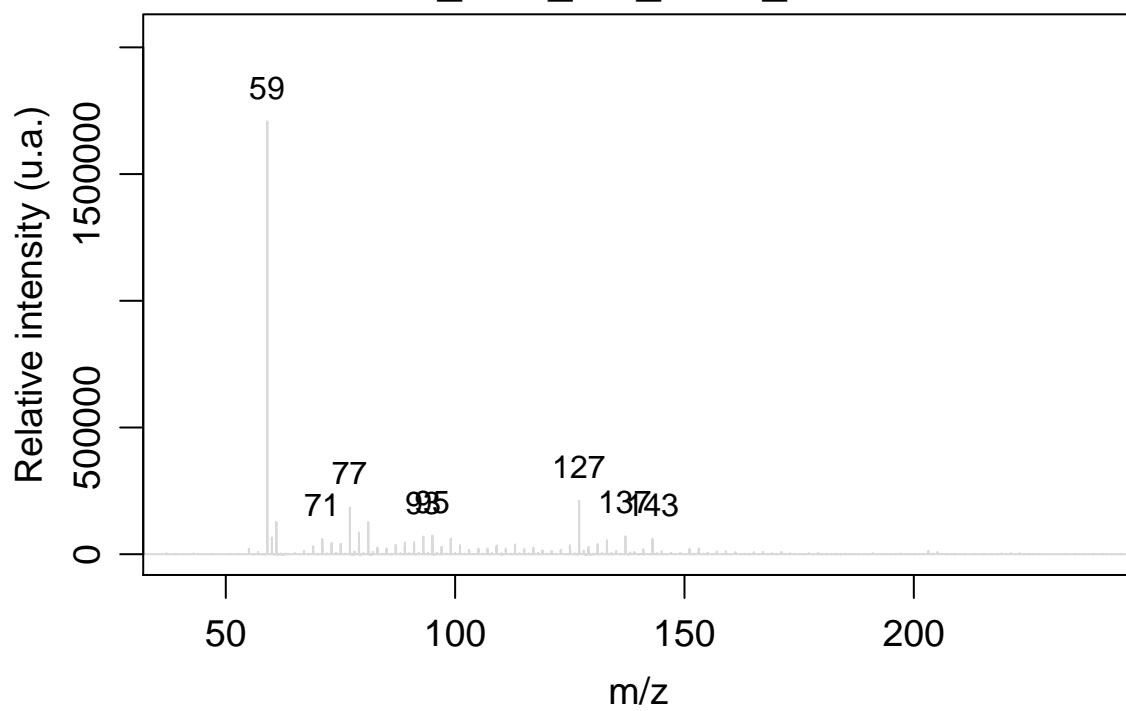
**s2\_Ch2\_!v5\_c051\_n201**



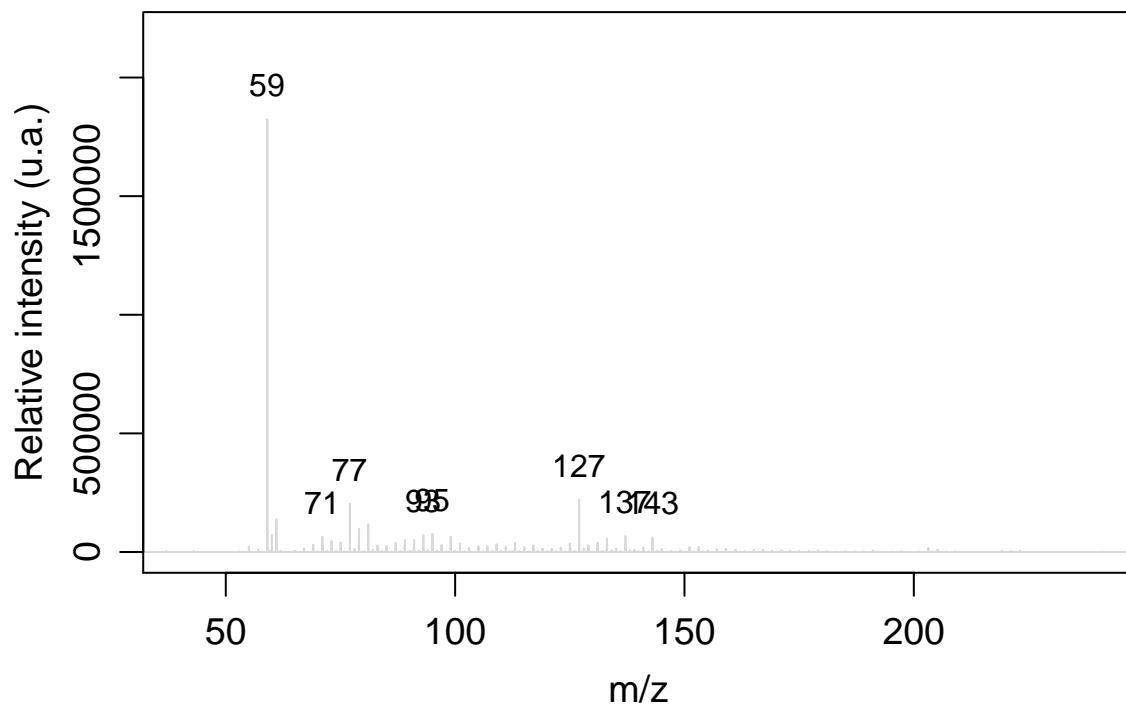
**s2\_Ch2\_1v5\_c053\_n209**



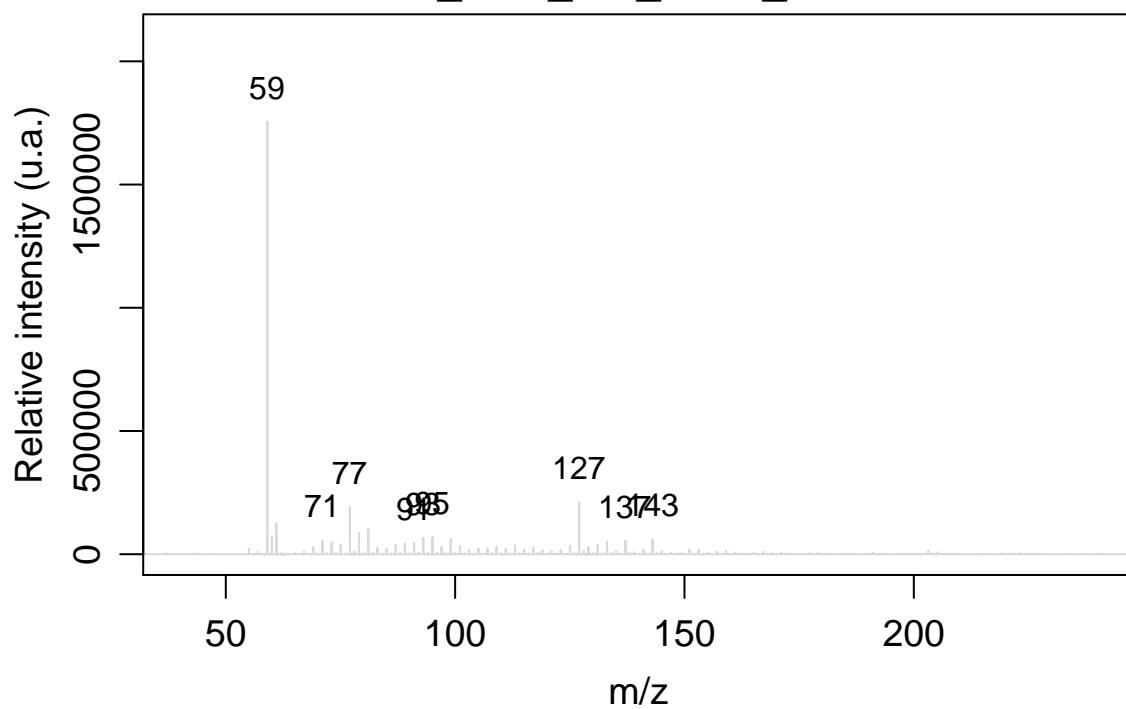
**s2\_Ch2\_1v5\_c055\_n217**



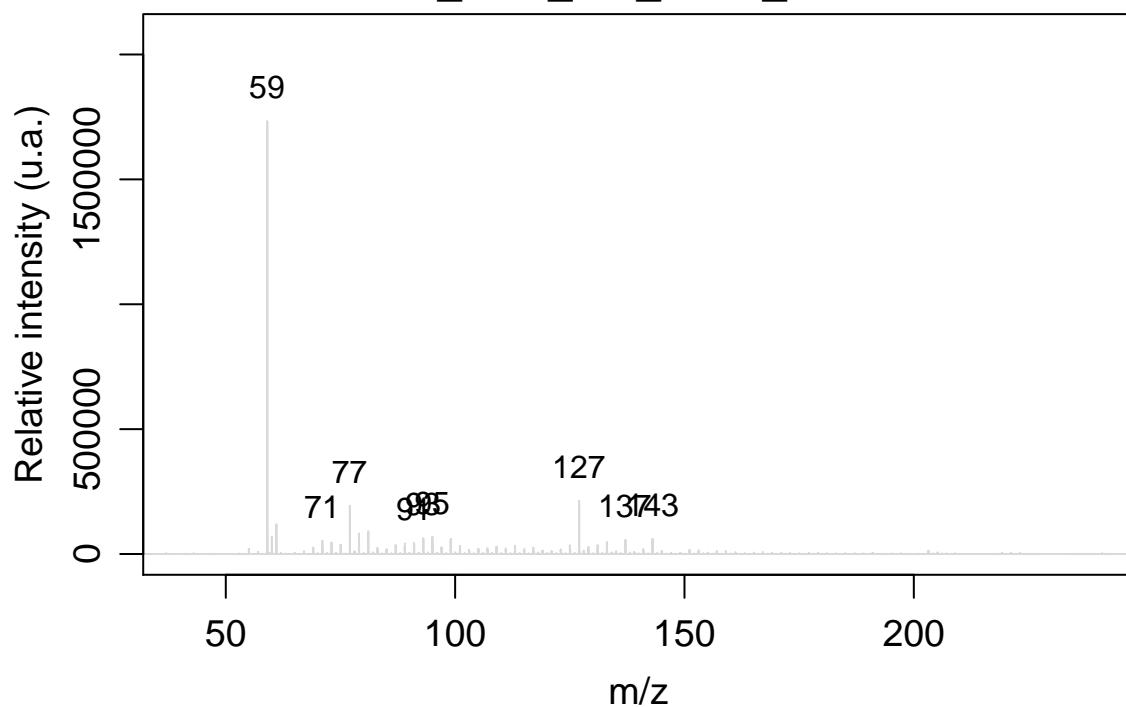
**s2\_Ch2\_1v5\_c057\_n225**



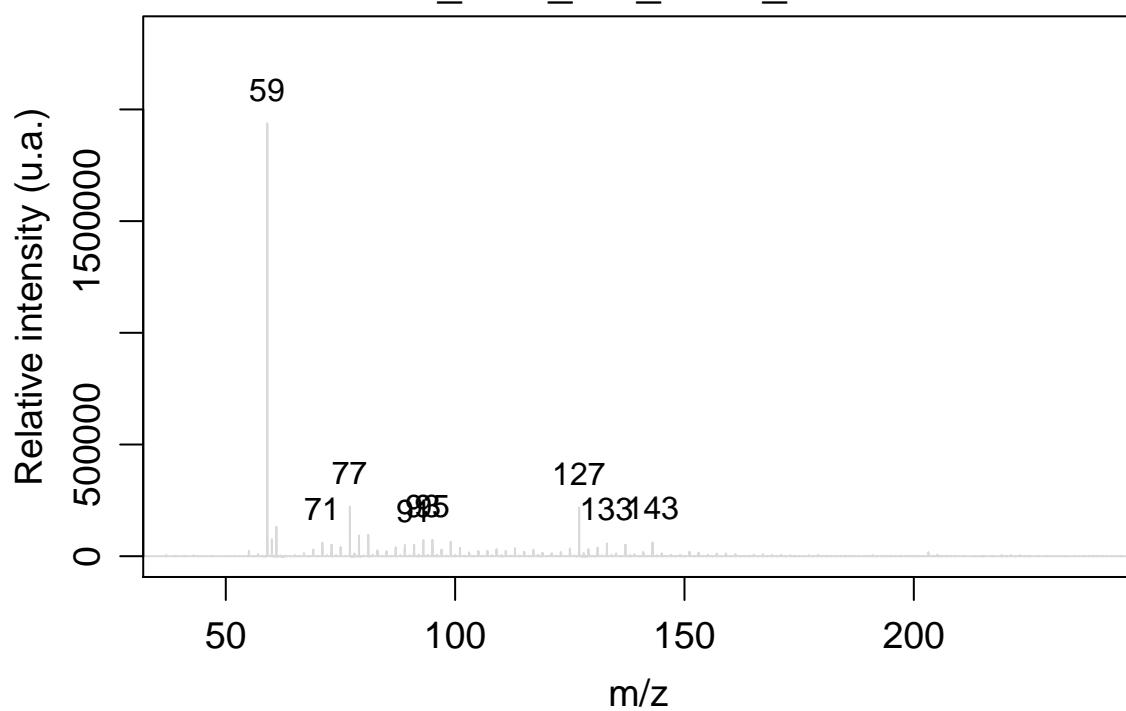
**s2\_Ch2\_1v5\_c059\_n233**



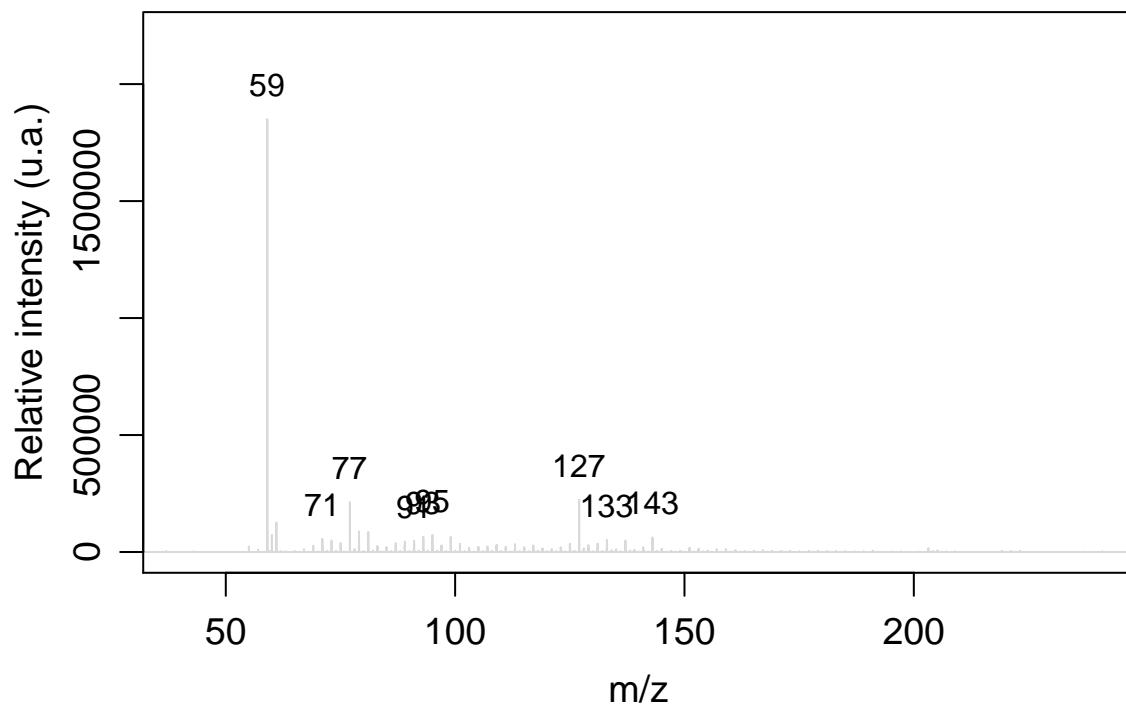
**s2\_Ch2\_1v5\_c061\_n241**



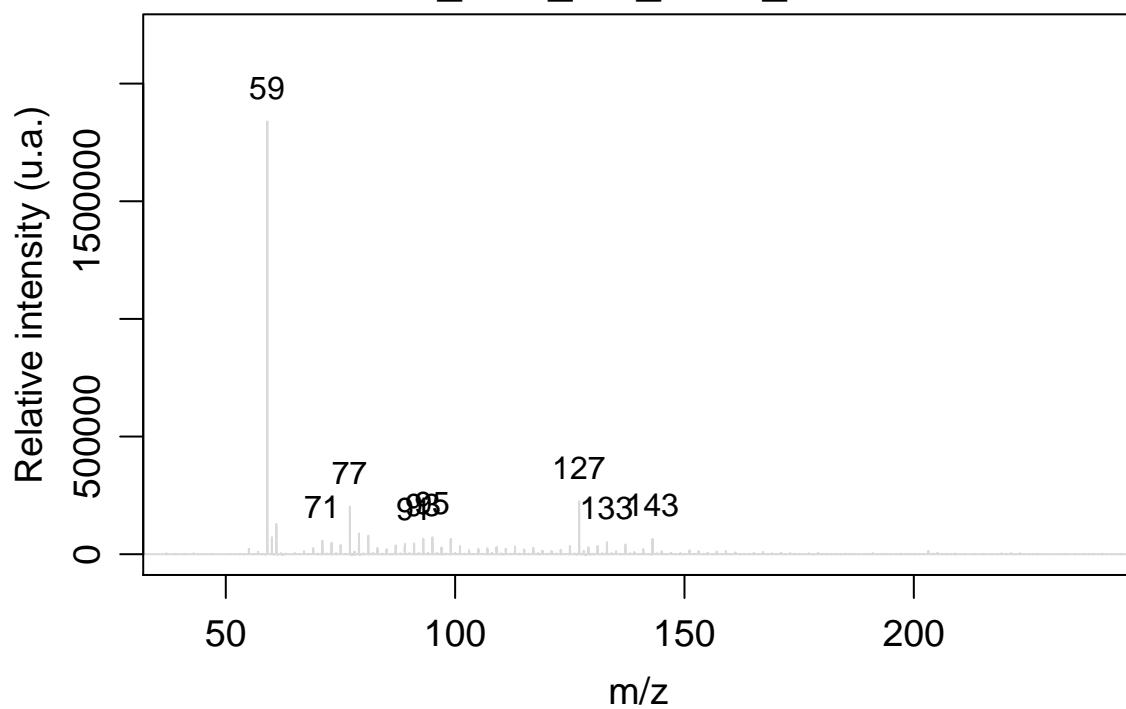
**s2\_Ch2\_1v5\_c063\_n249**



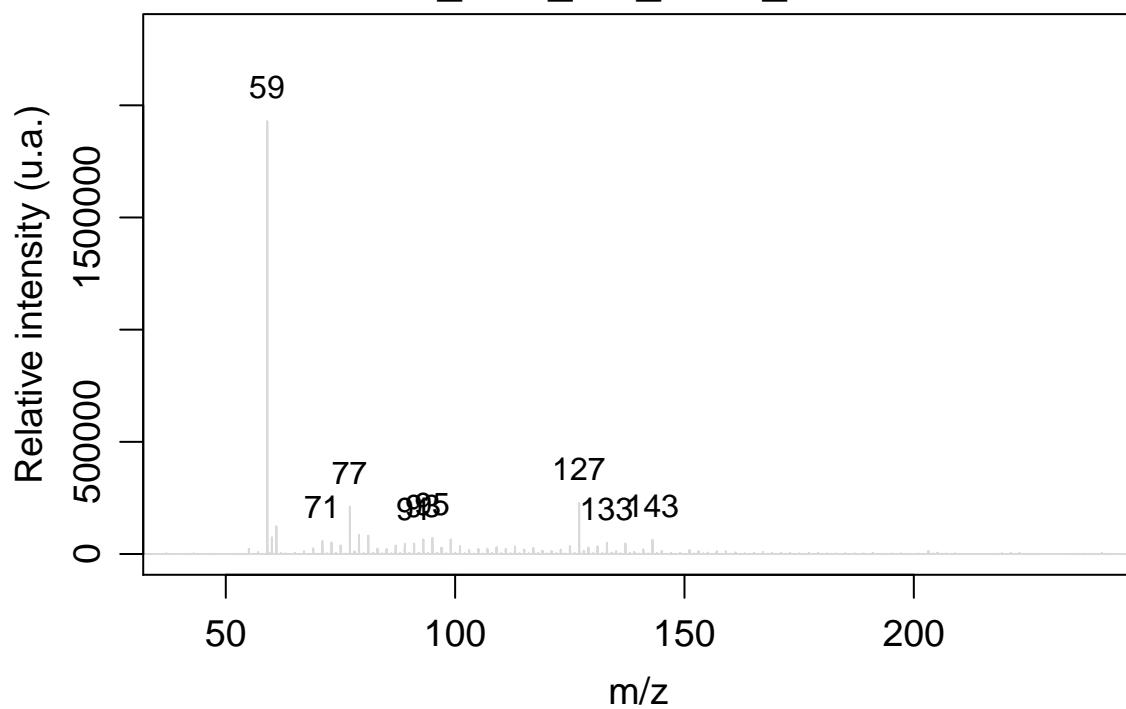
**s2\_Ch2\_1v5\_c065\_n257**



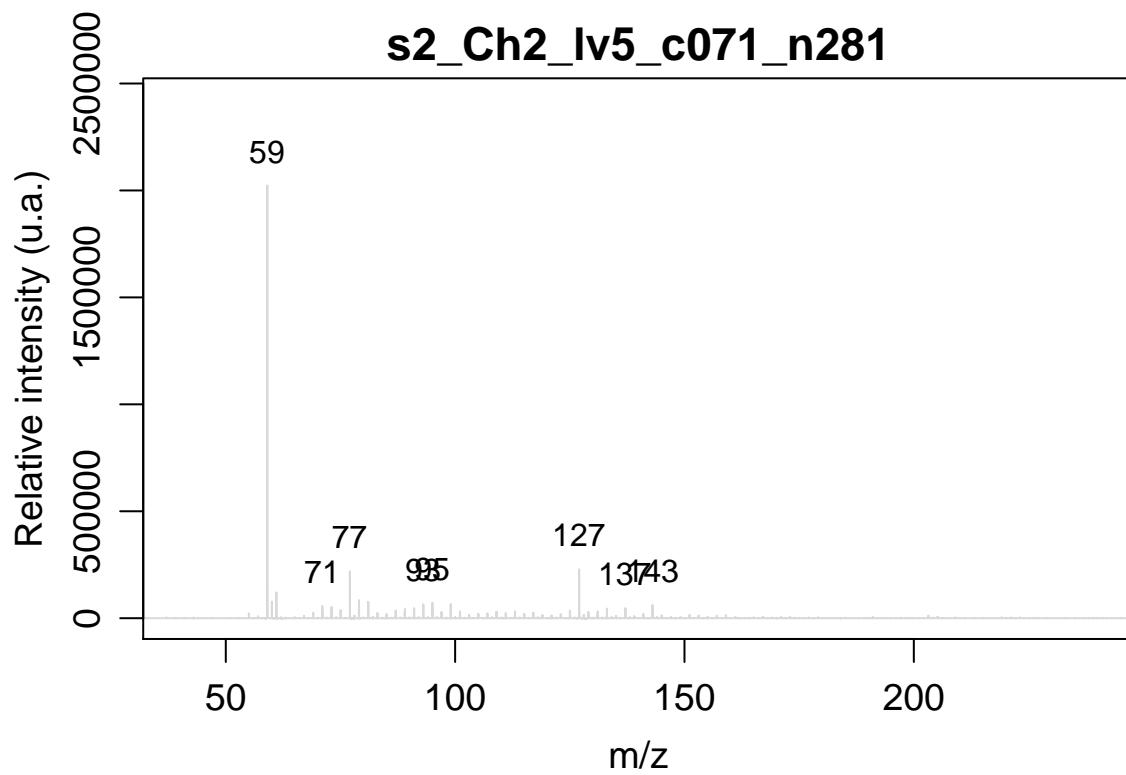
**s2\_Ch2\_1v5\_c067\_n265**



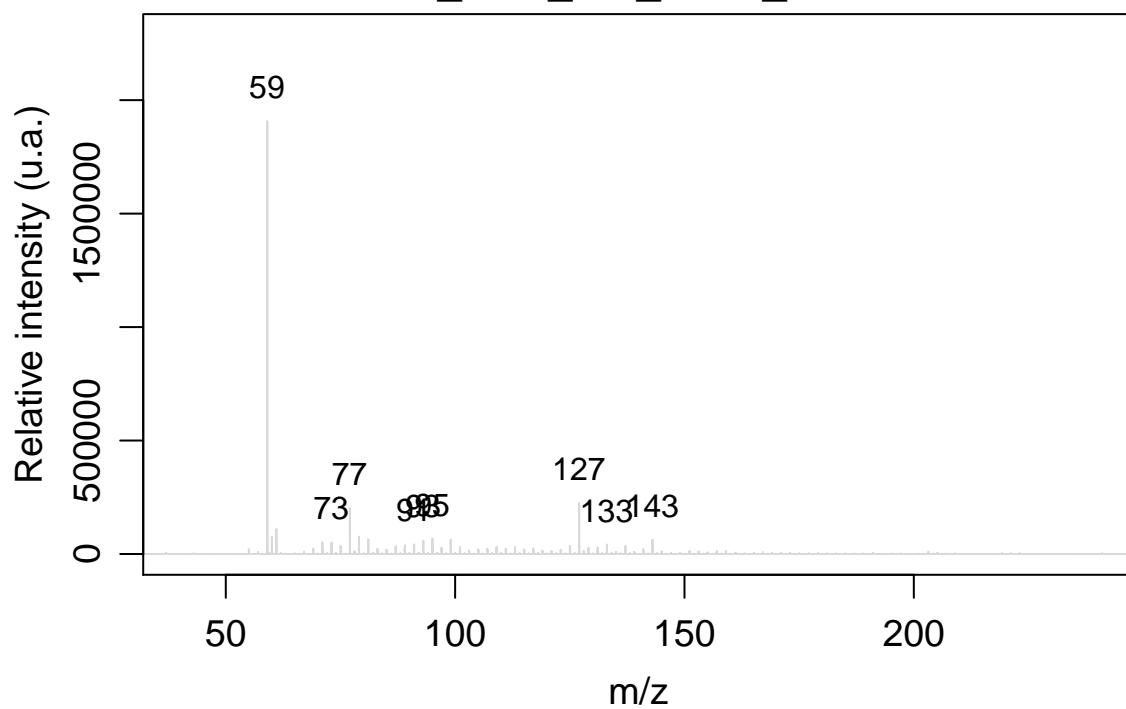
**s2\_Ch2\_1v5\_c069\_n273**



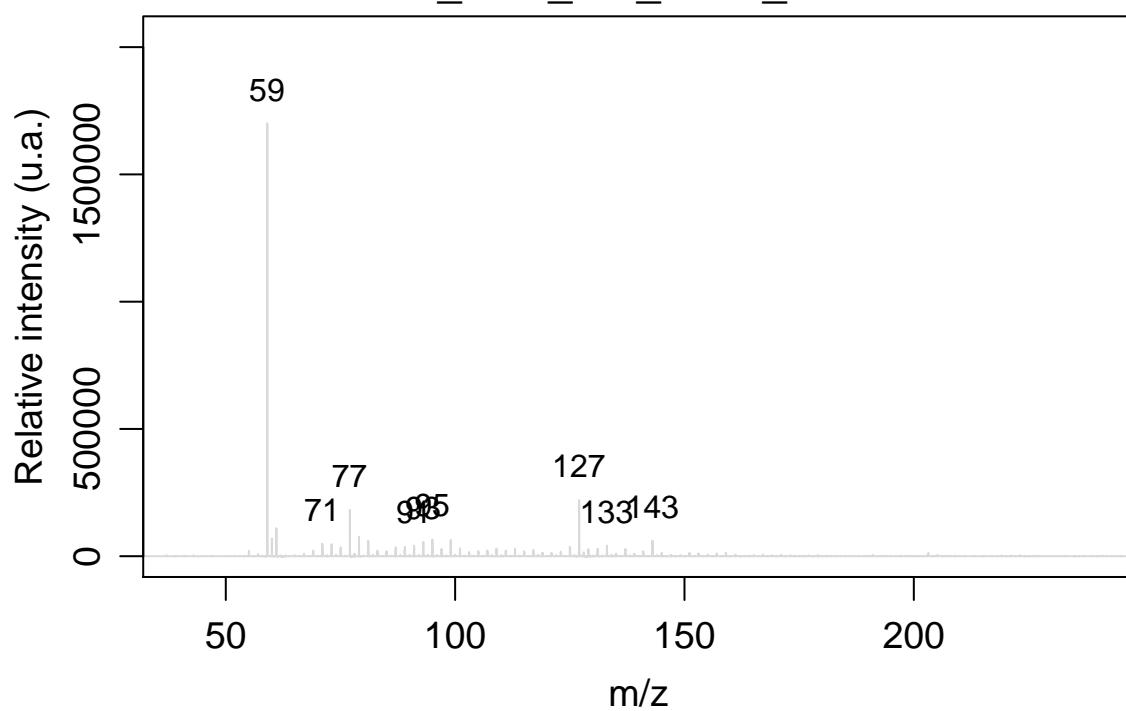
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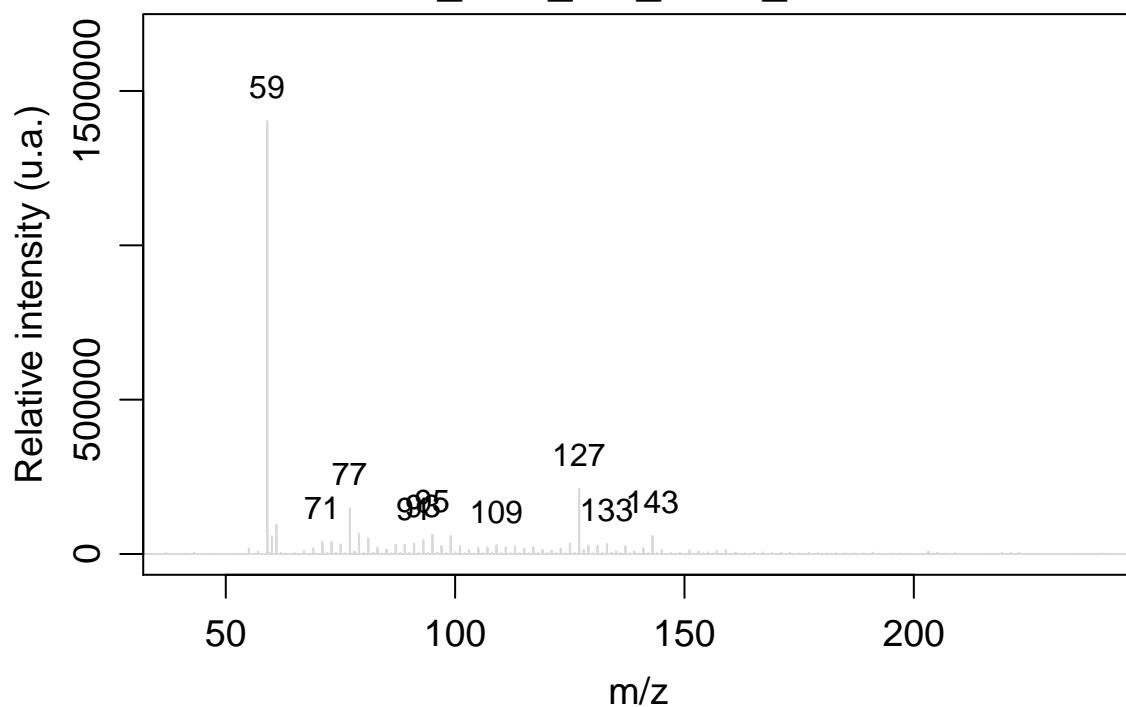
**s2\_Ch2\_1v5\_c073\_n289**



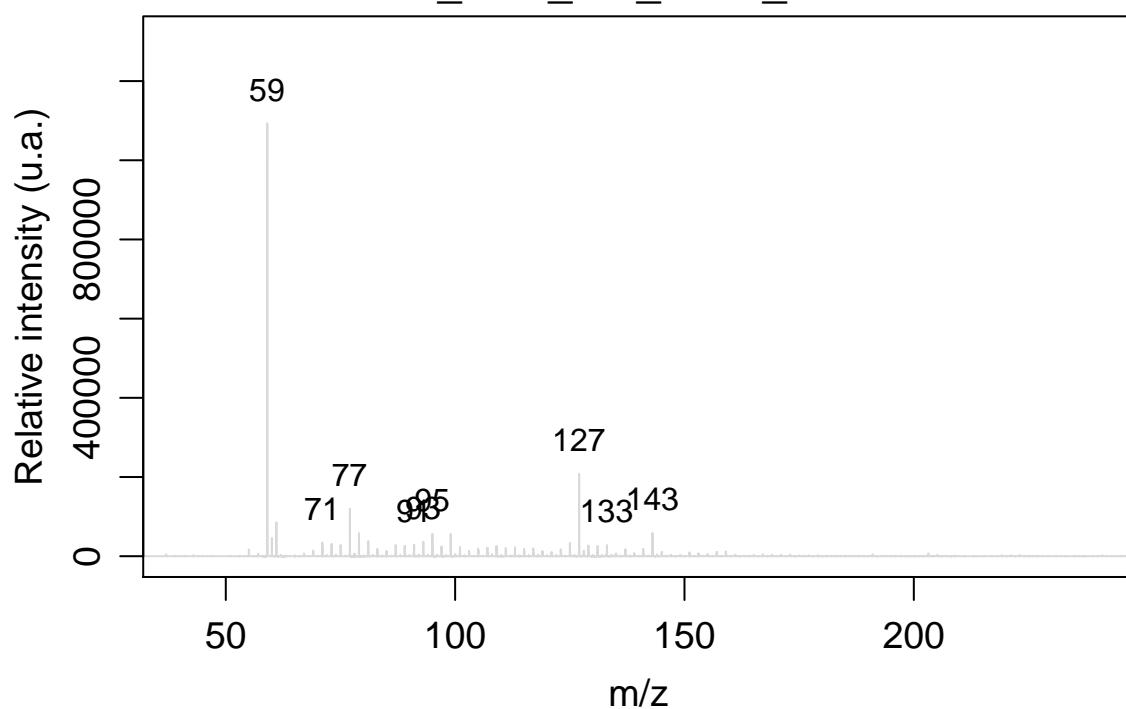
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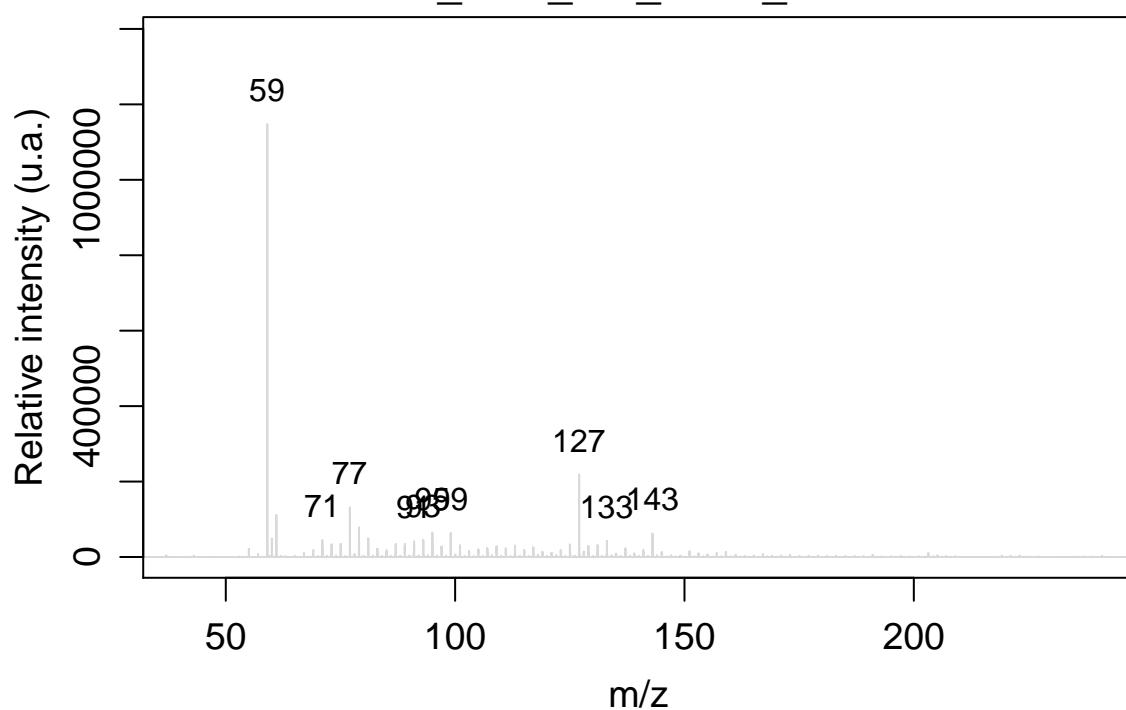
**s2\_Ch2\_!v5\_c077\_n305**



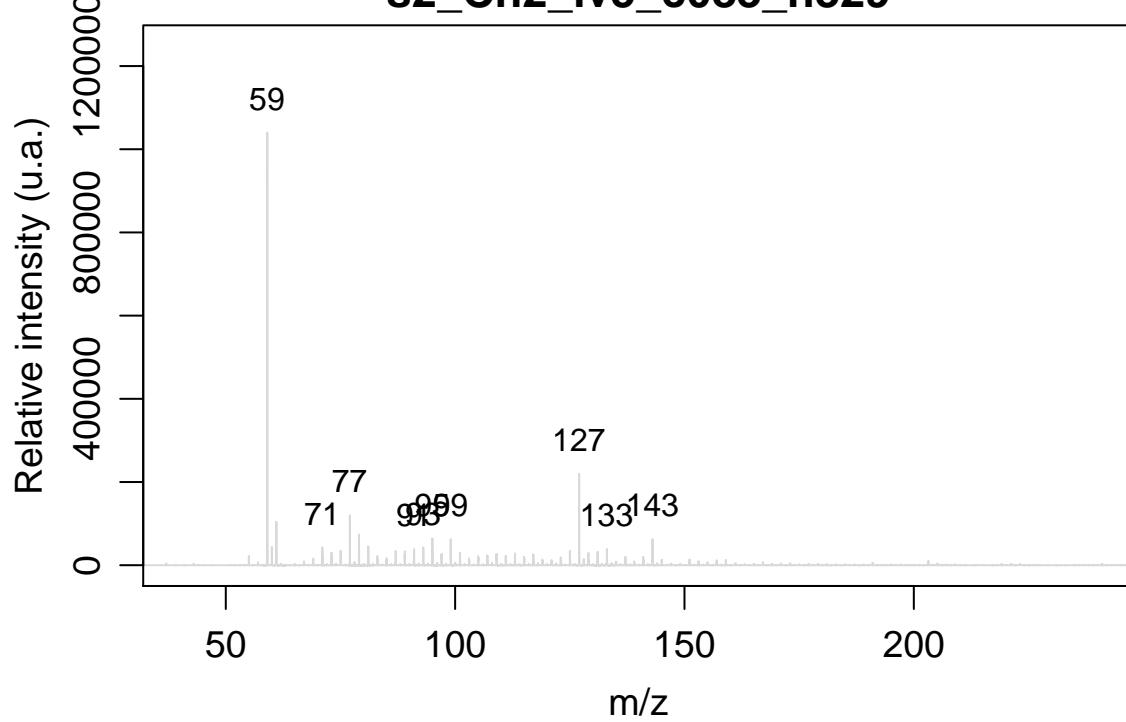
**s2\_Ch2\_!v5\_c079\_n313**



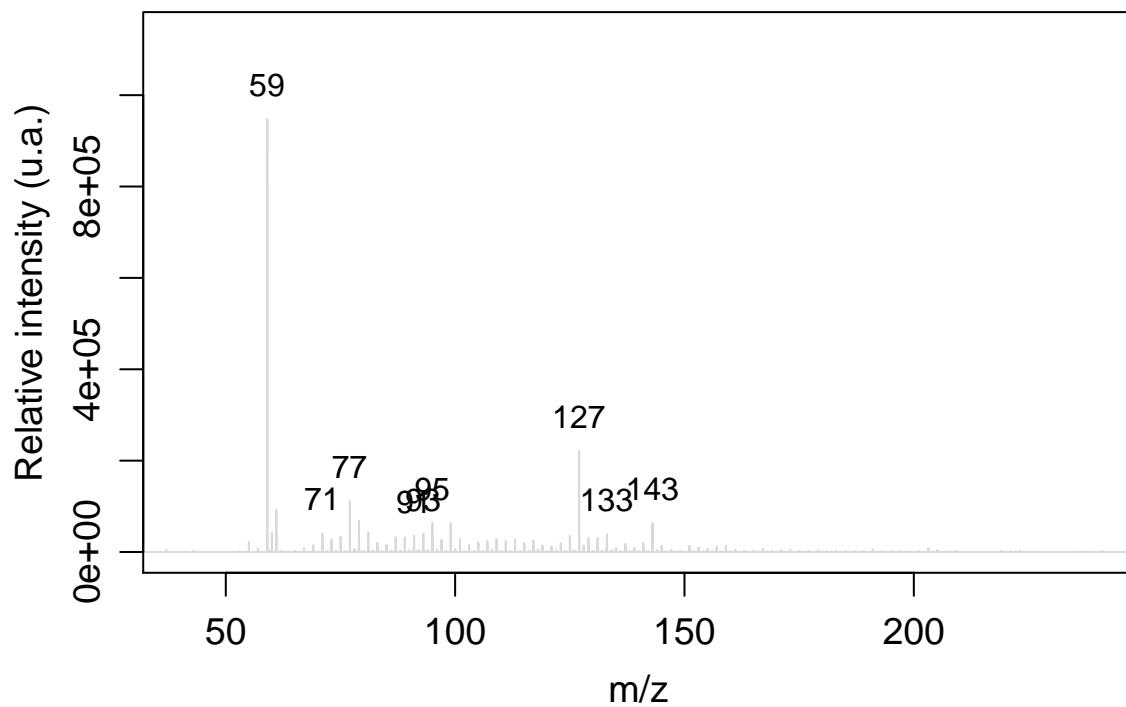
**s2\_Ch2\_1v5\_c081\_n321**



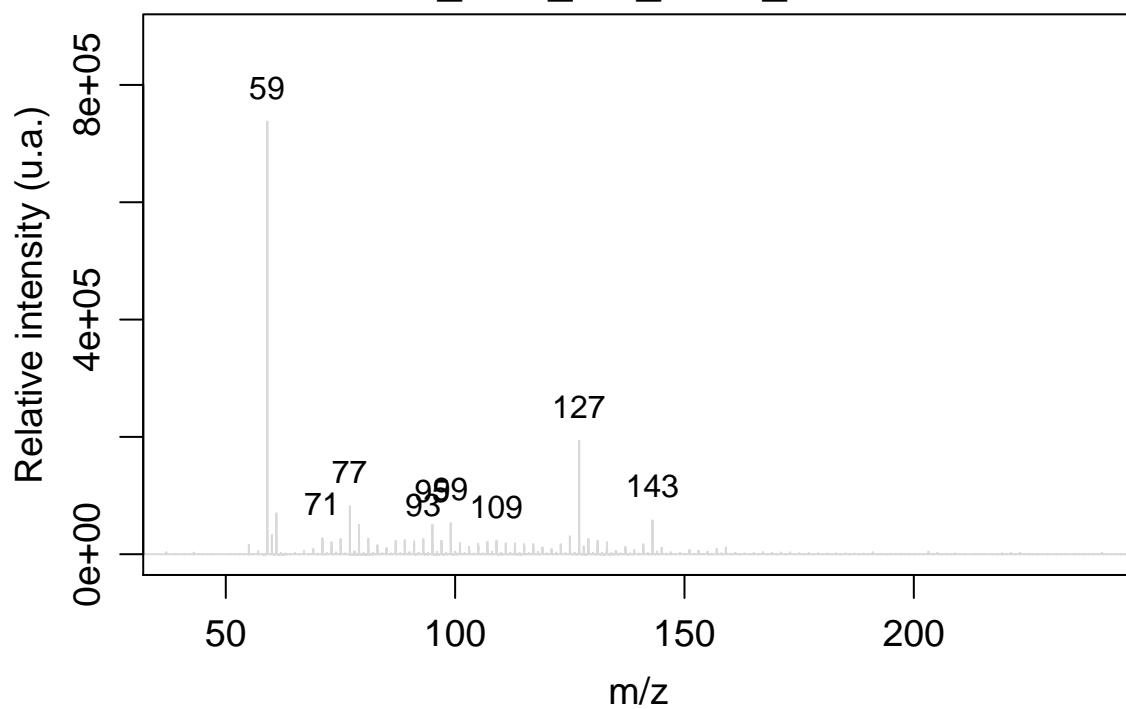
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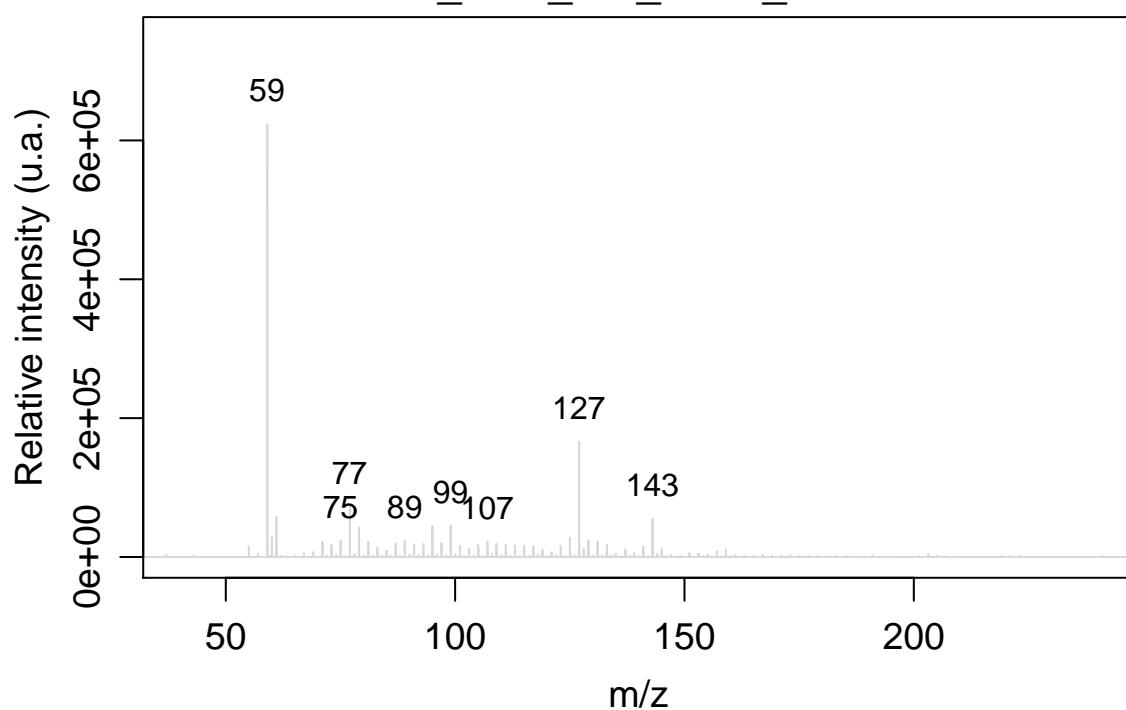
**s2\_Ch2\_1v5\_c085\_n337**



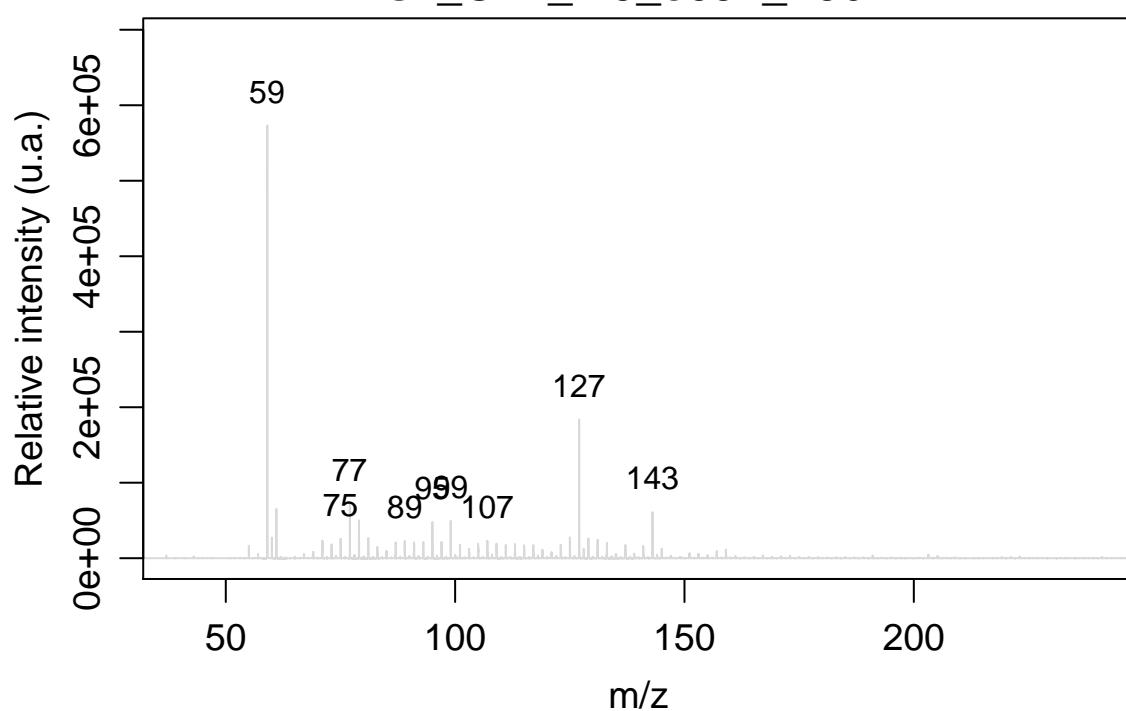
**s2\_Ch2\_1v5\_c087\_n345**



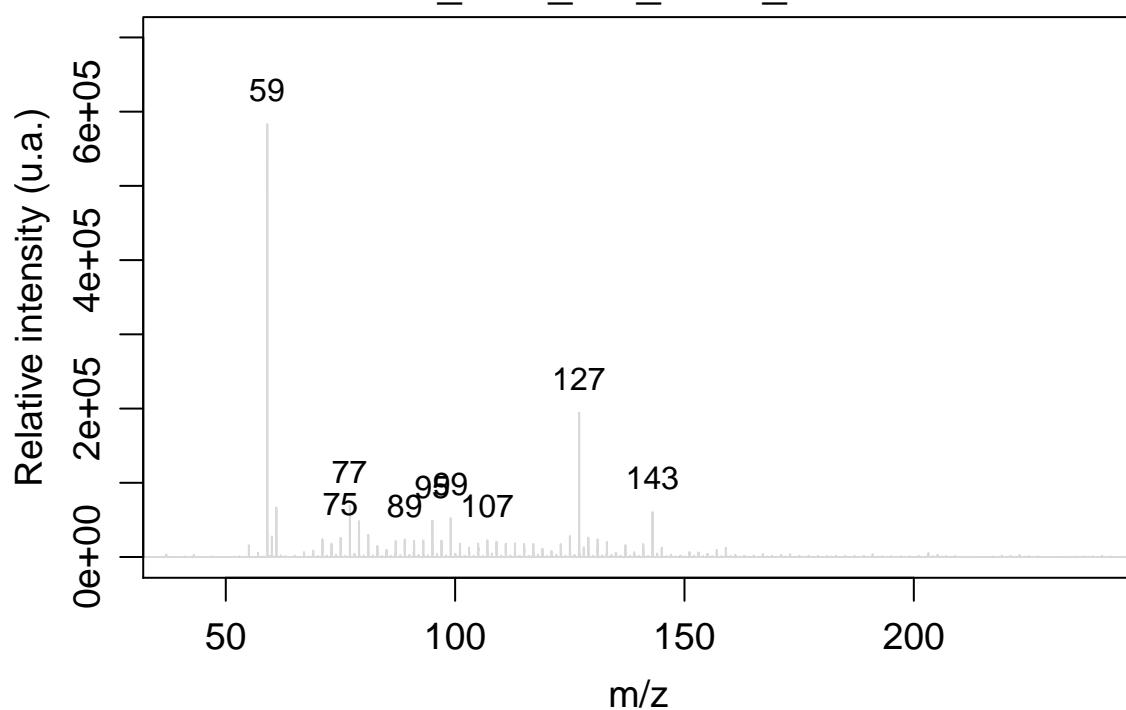
**s2\_Ch2\_1v5\_c089\_n353**



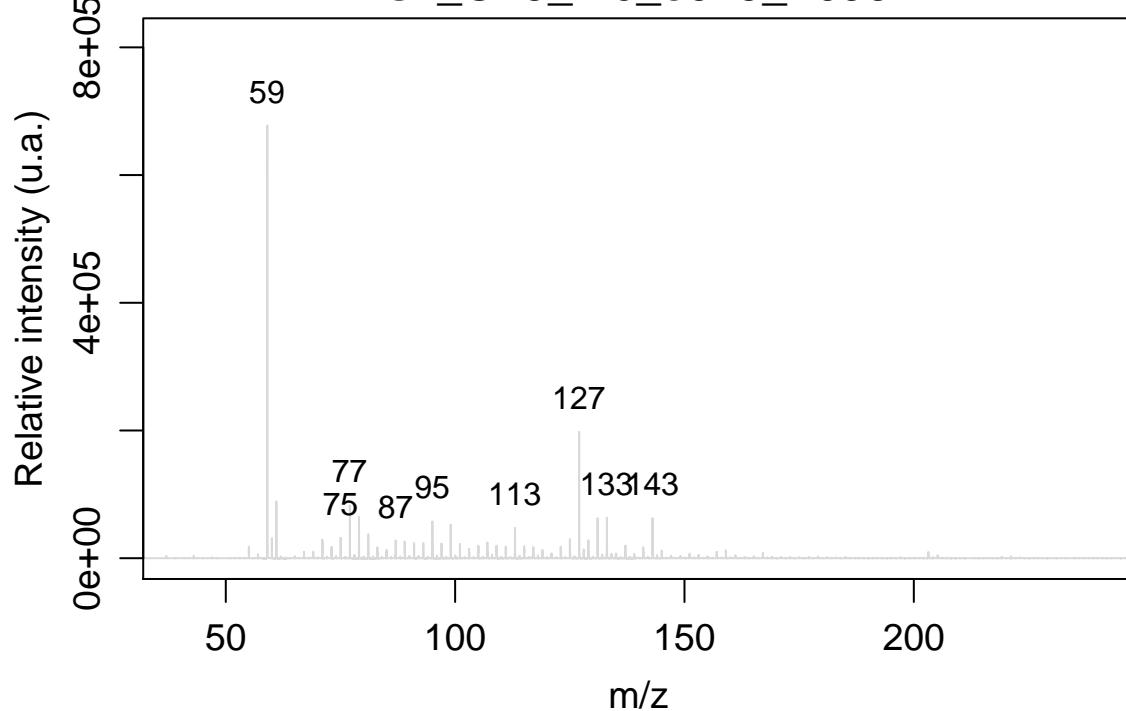
**s2\_Ch2\_1v5\_c091\_n361**



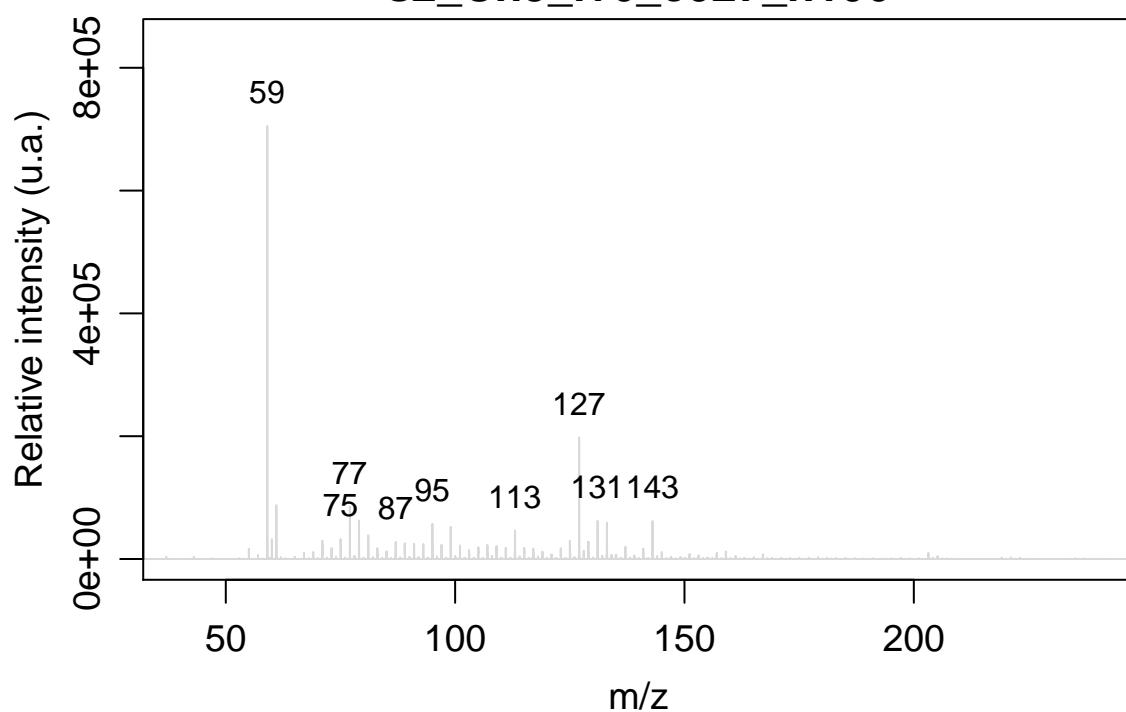
**s2\_Ch2\_1v5\_c093\_n369**



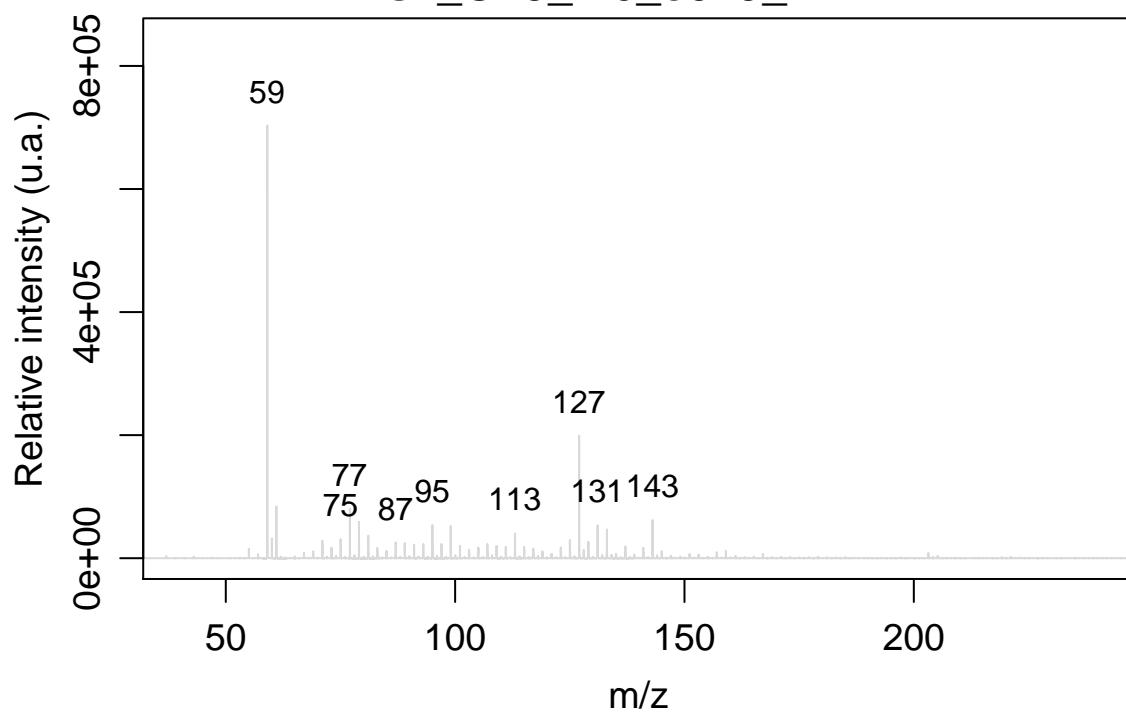
**s2\_Ch3\_1v6\_c025\_n098**



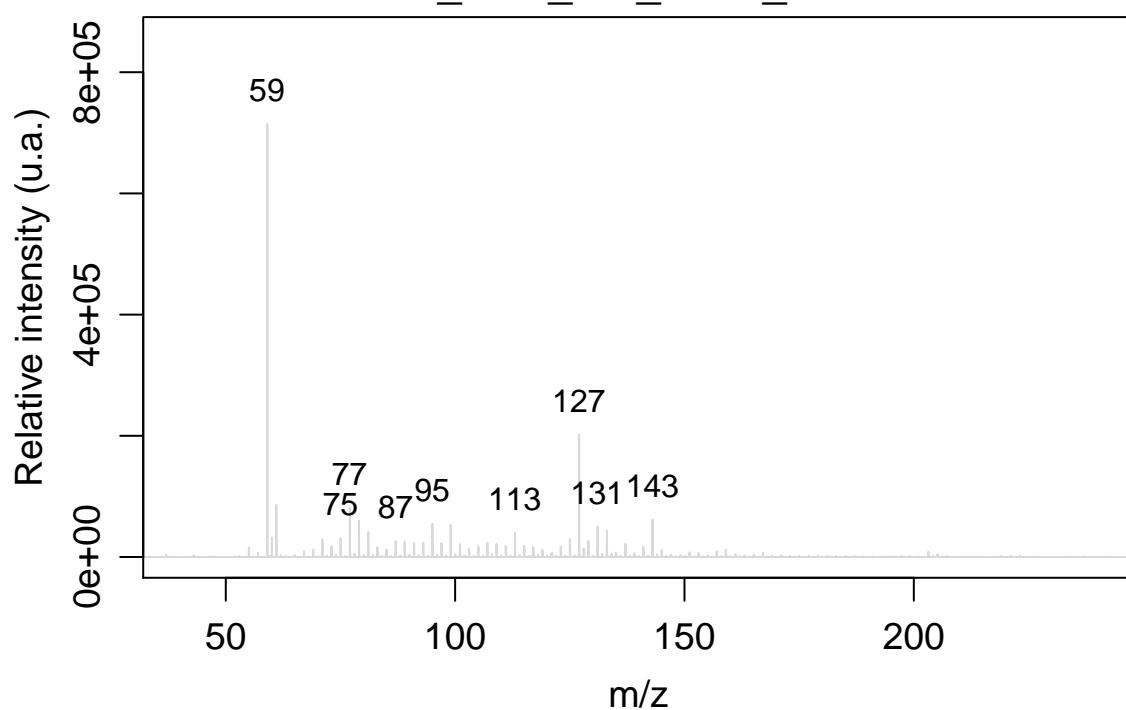
**s2\_Ch3\_!v6\_c027\_n106**



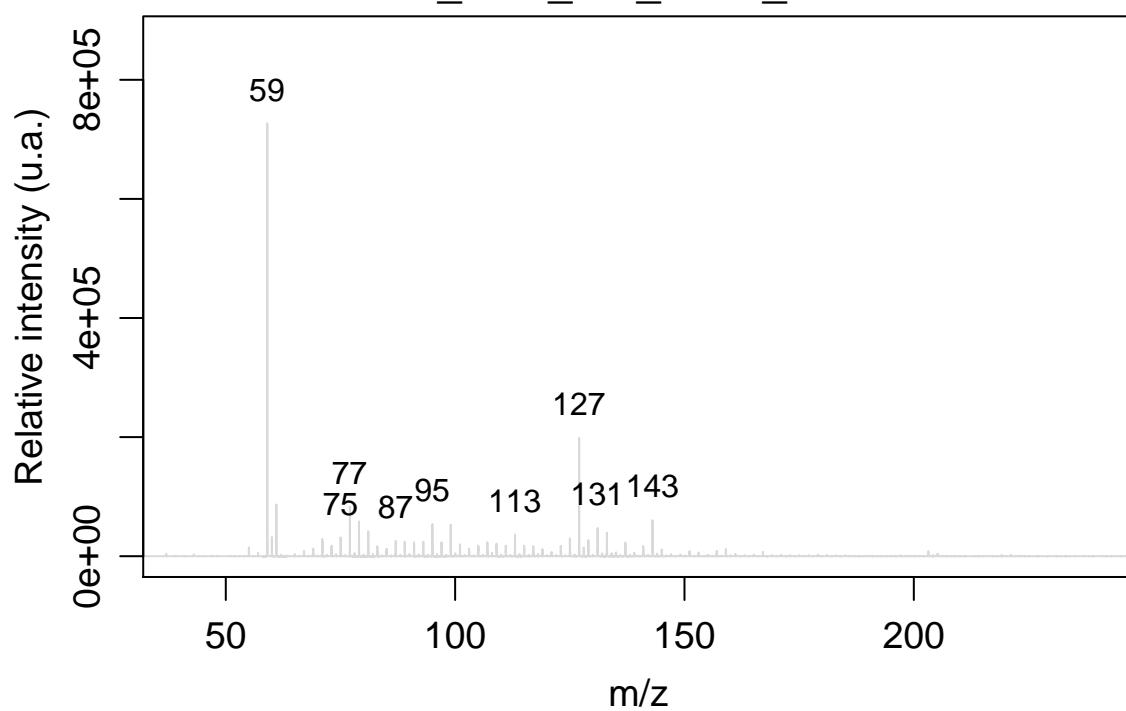
**s2\_Ch3\_!v6\_c029\_n114**



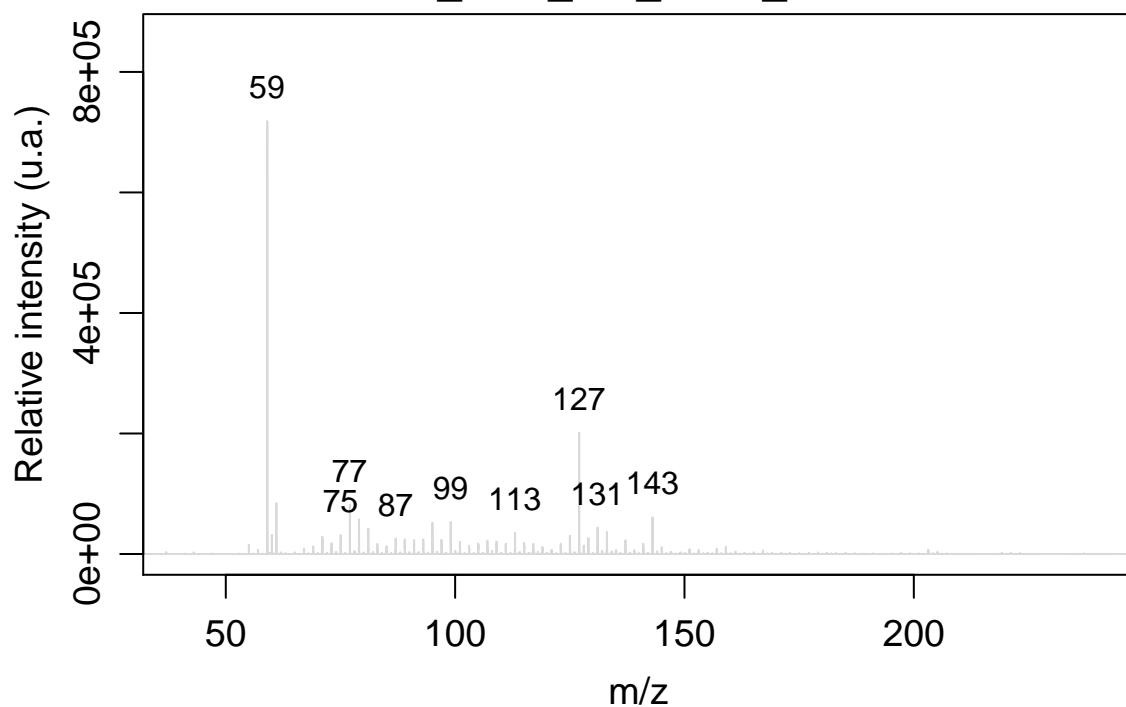
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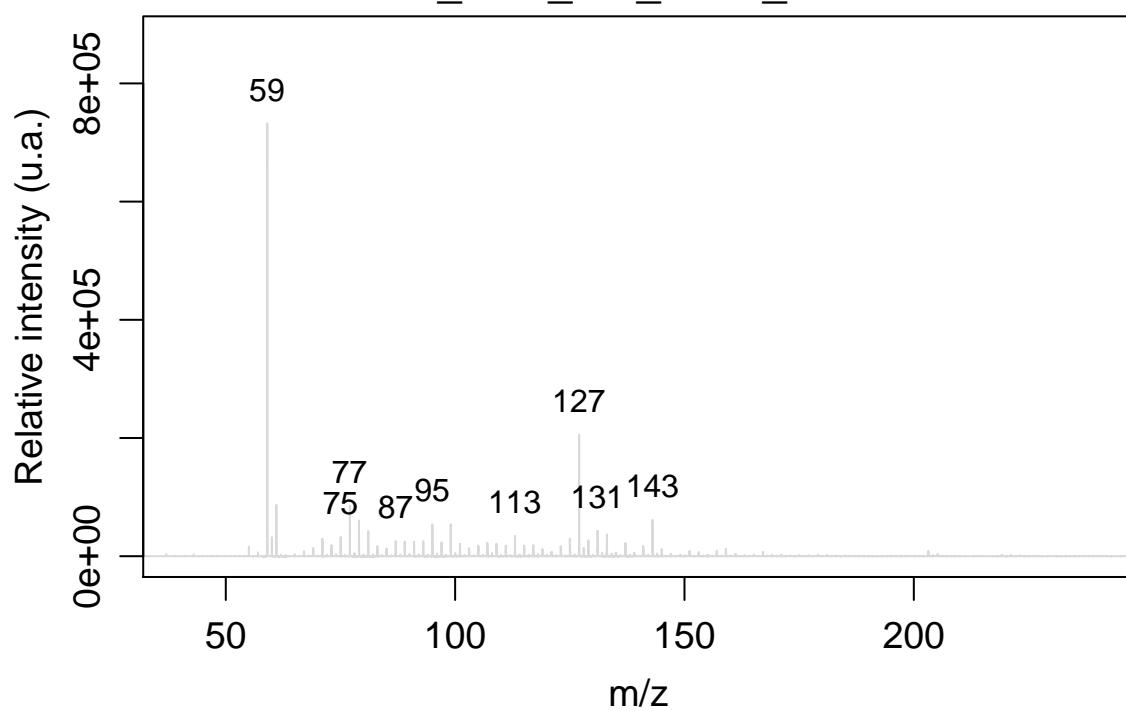
**s2\_Ch3\_lv6\_c033\_n130**



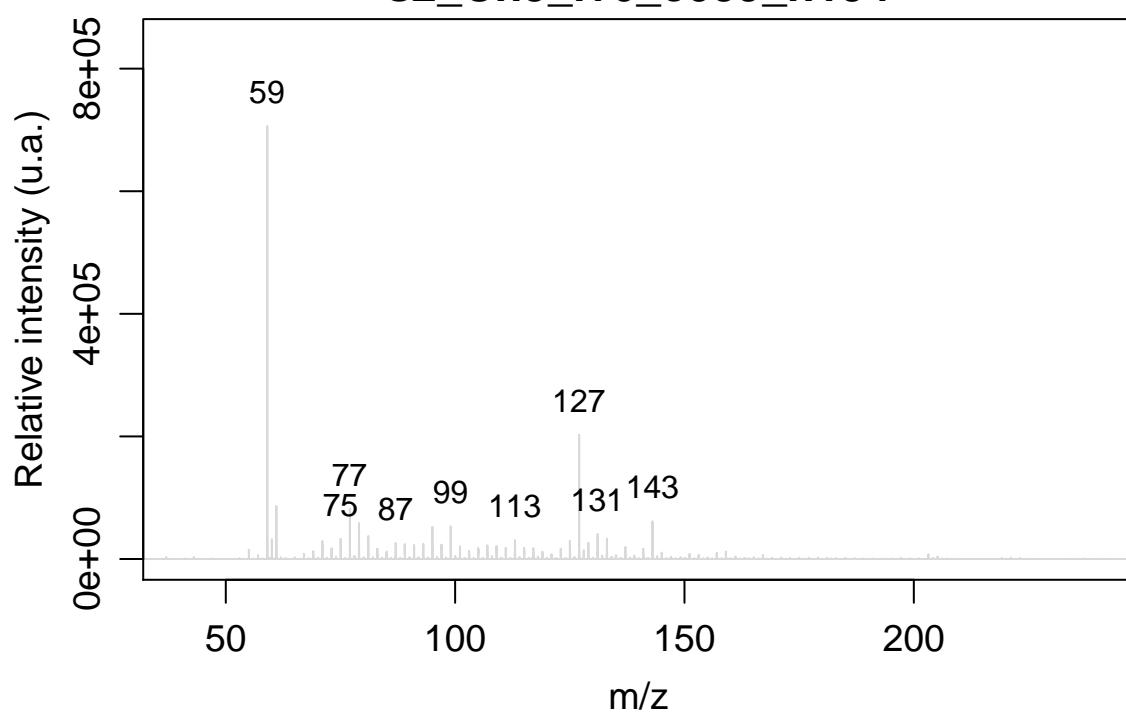
**s2\_Ch3\_lv6\_c035\_n138**



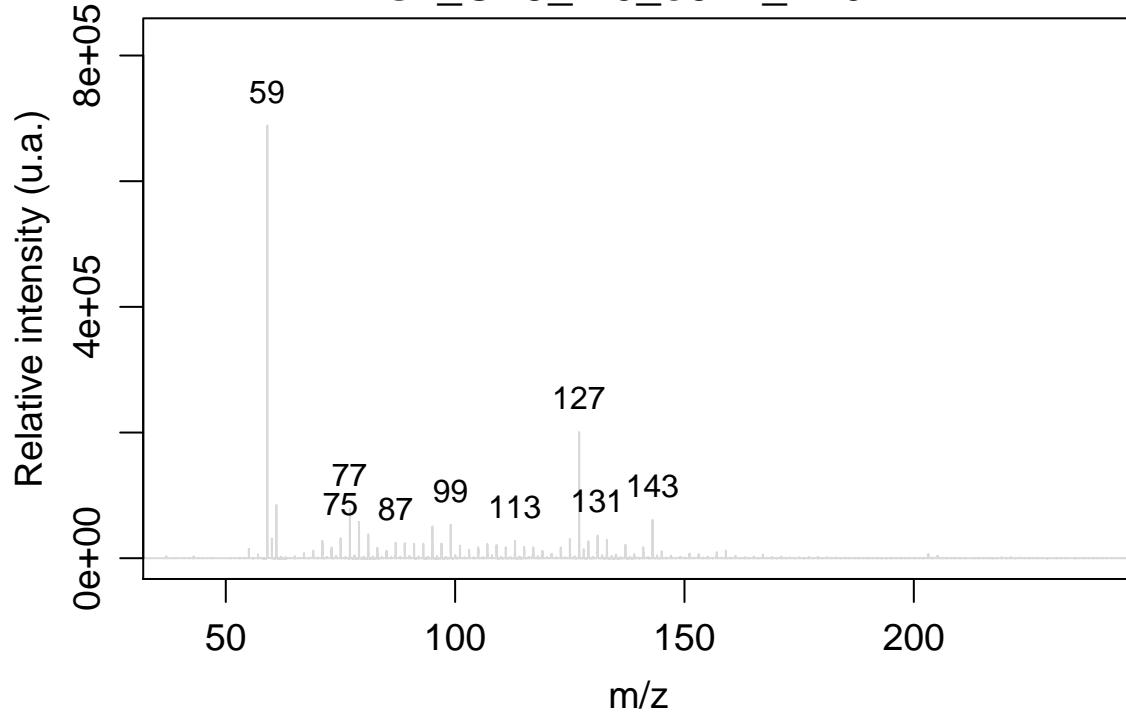
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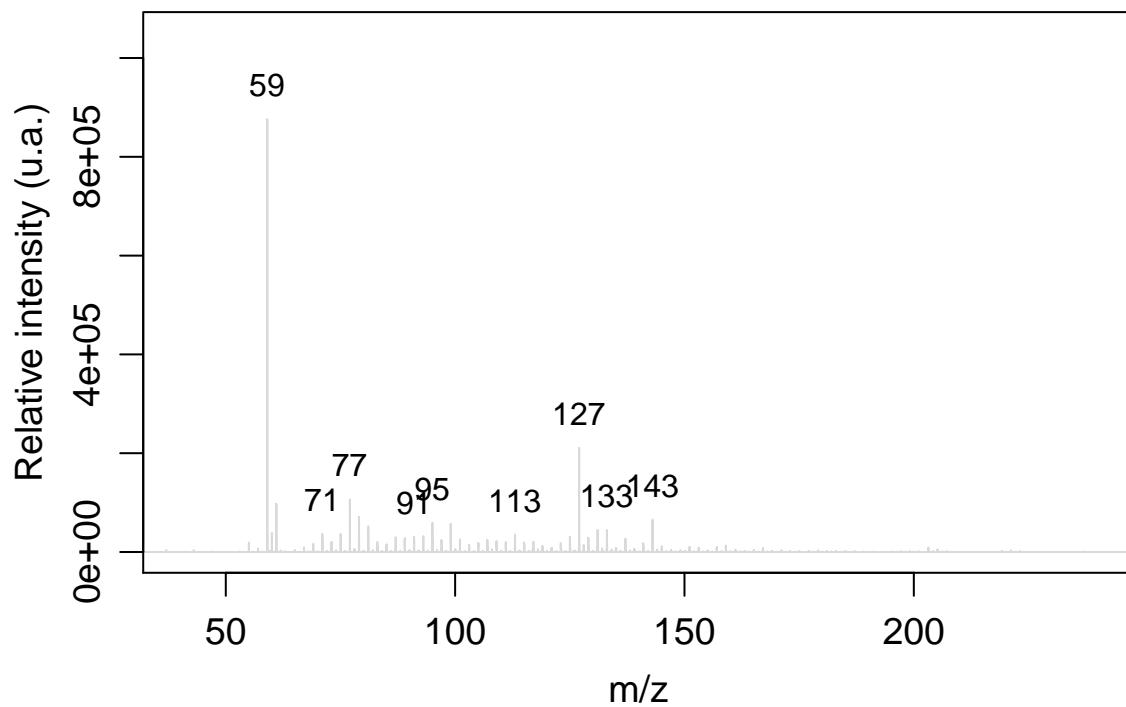
**s2\_Ch3\_!v6\_c039\_n154**



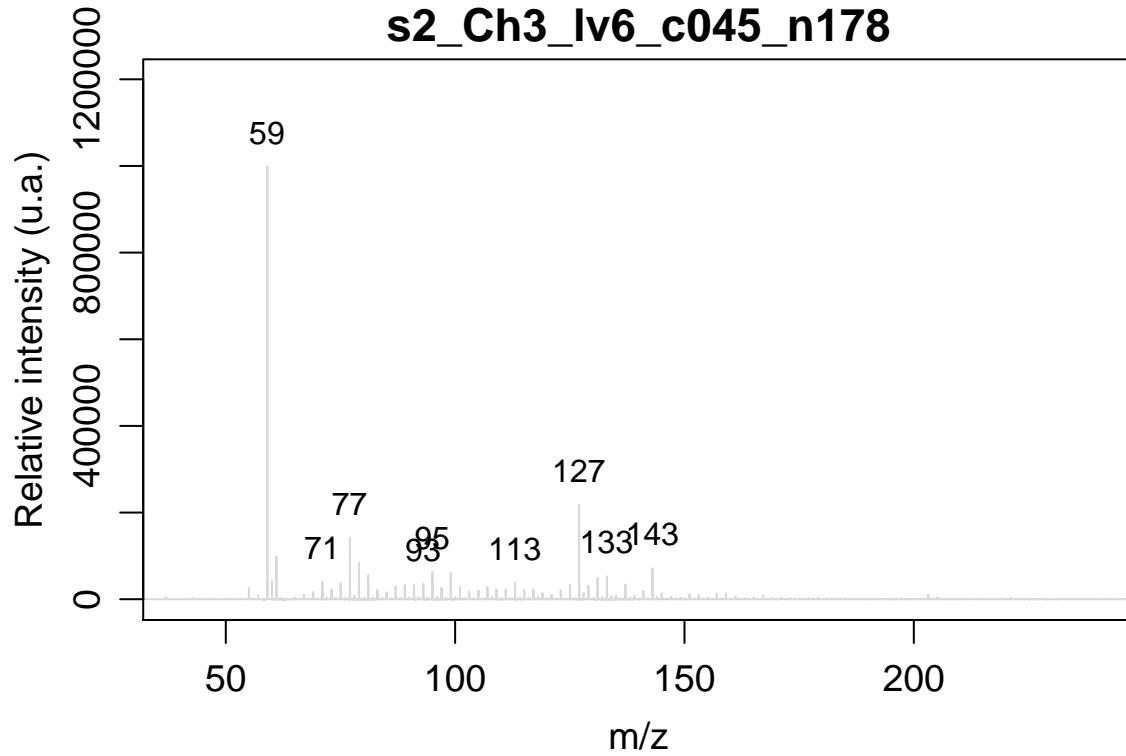
**s2\_Ch3\_!v6\_c041\_n162**



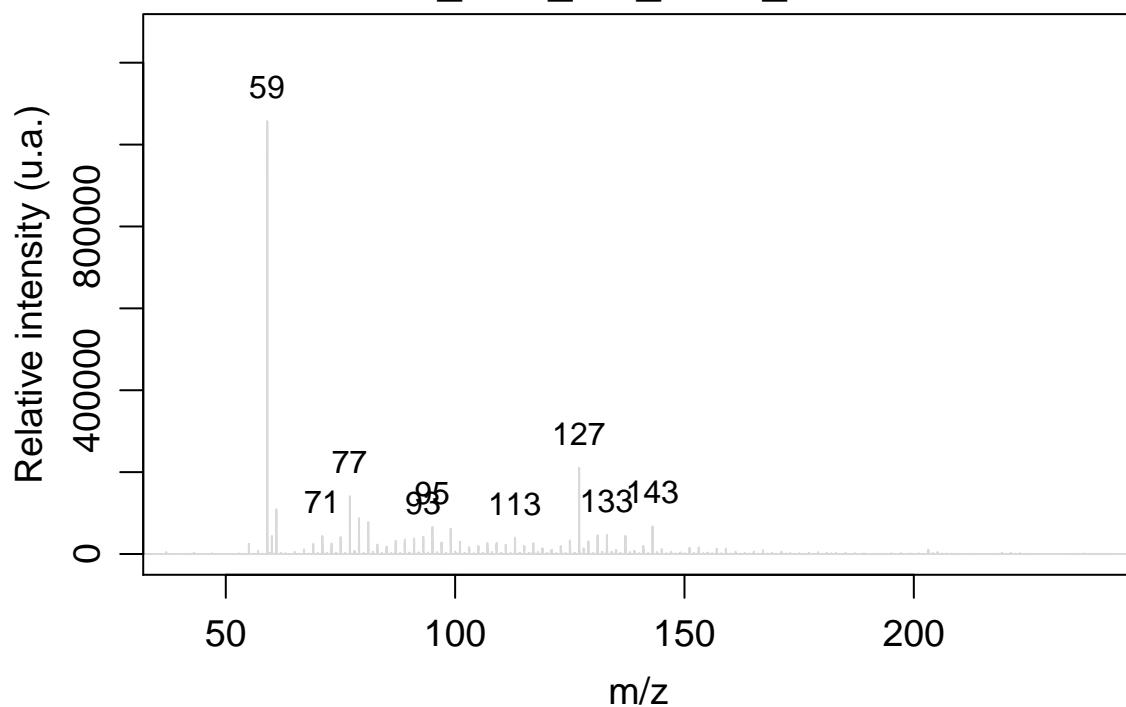
**s2\_Ch3\_!v6\_c043\_n170**



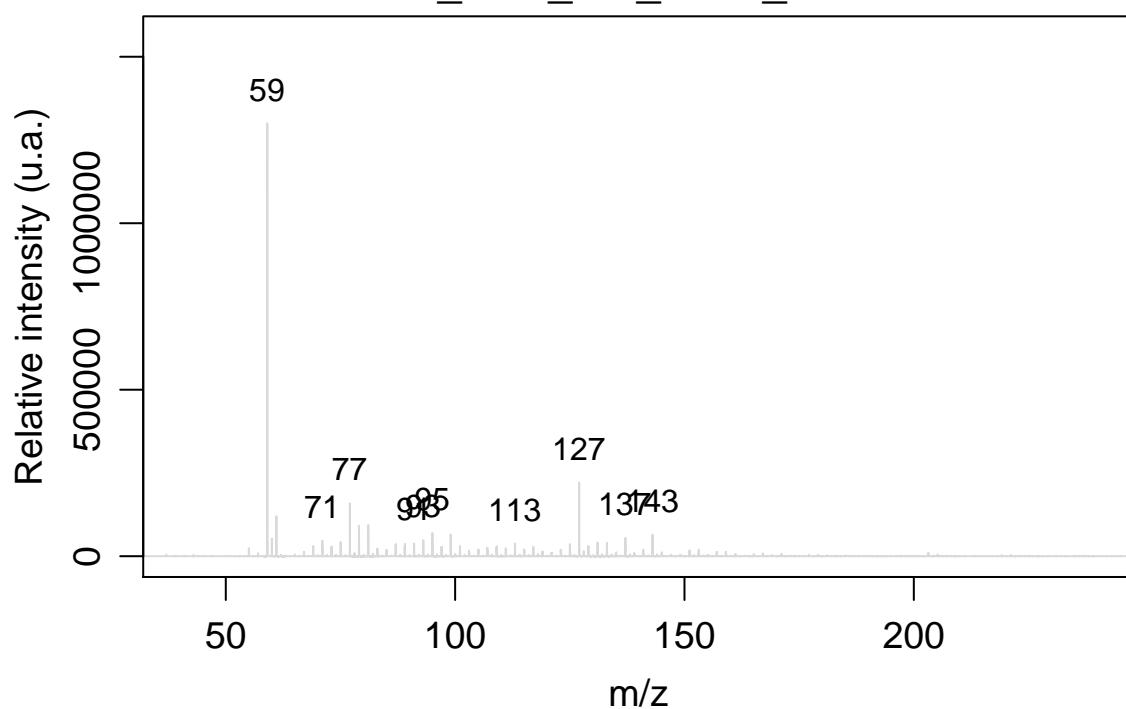
**s2\_Ch3\_!v6\_c045\_n178**



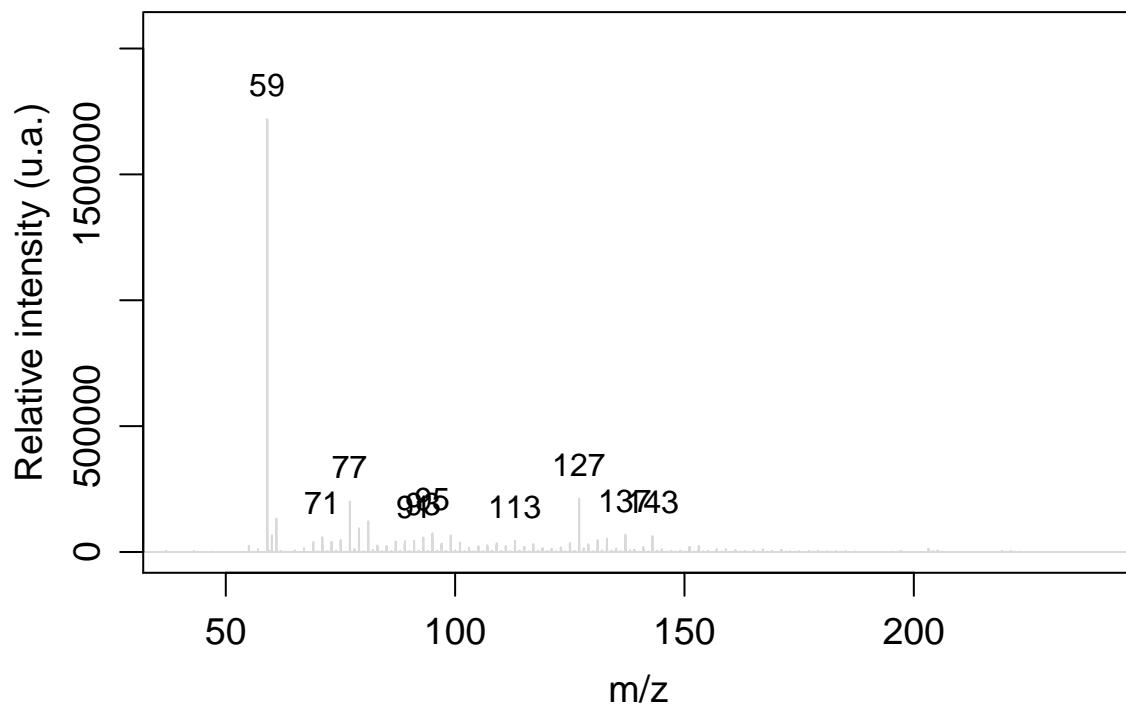
**s2\_Ch3\_lv6\_c047\_n186**



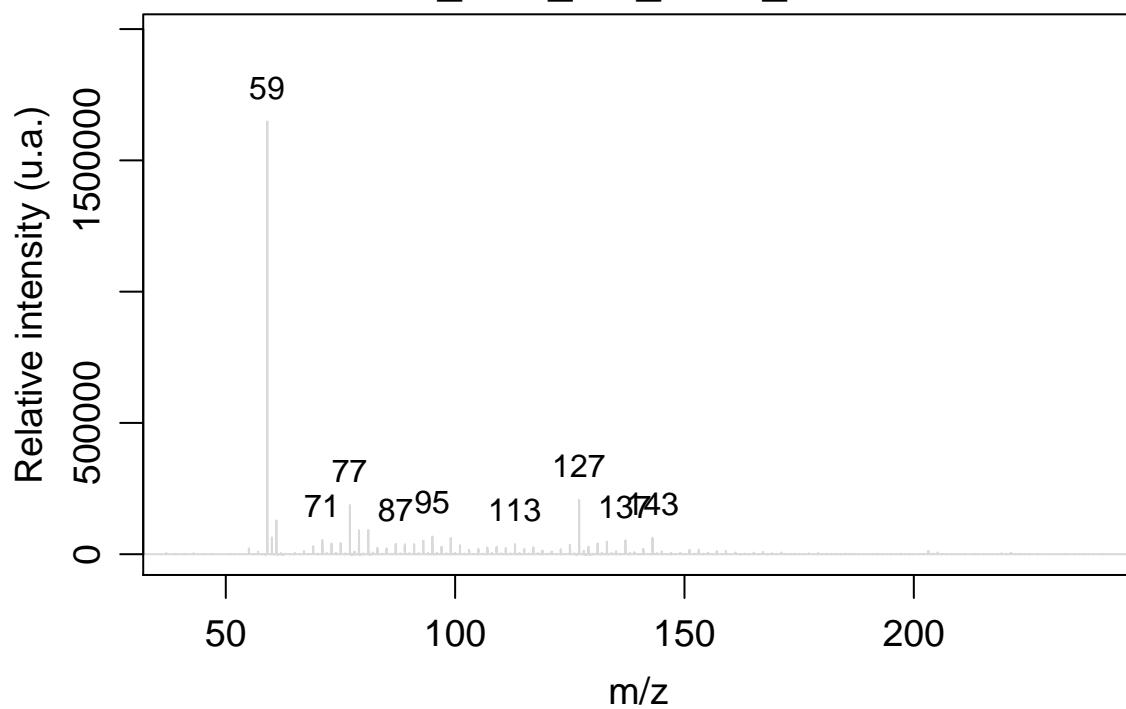
**s2\_Ch3\_lv6\_c049\_n194**



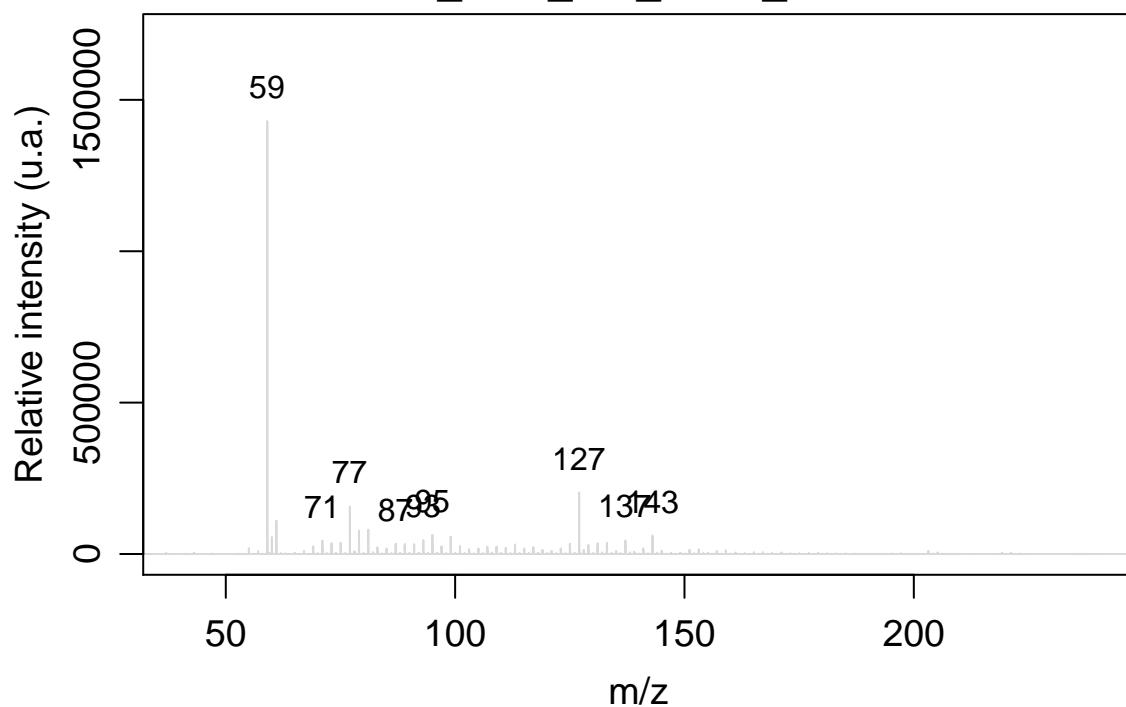
**s2\_Ch3\_1v6\_c051\_n202**



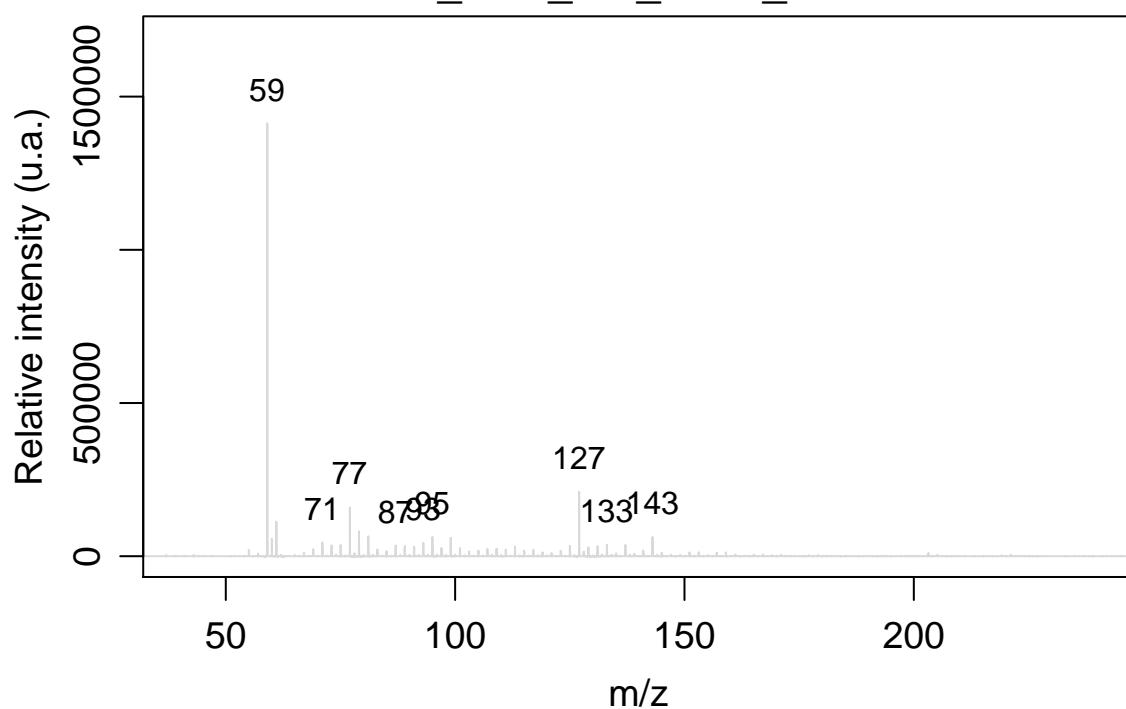
**s2\_Ch3\_1v6\_c053\_n210**



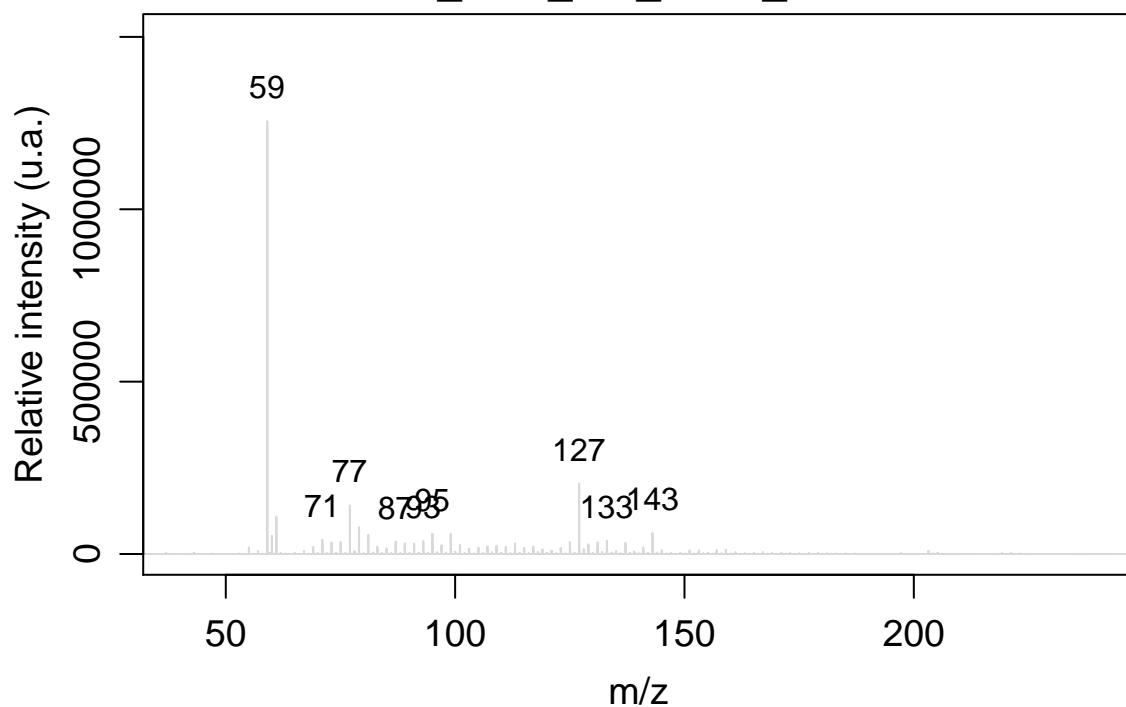
**s2\_Ch3\_1v6\_c055\_n218**



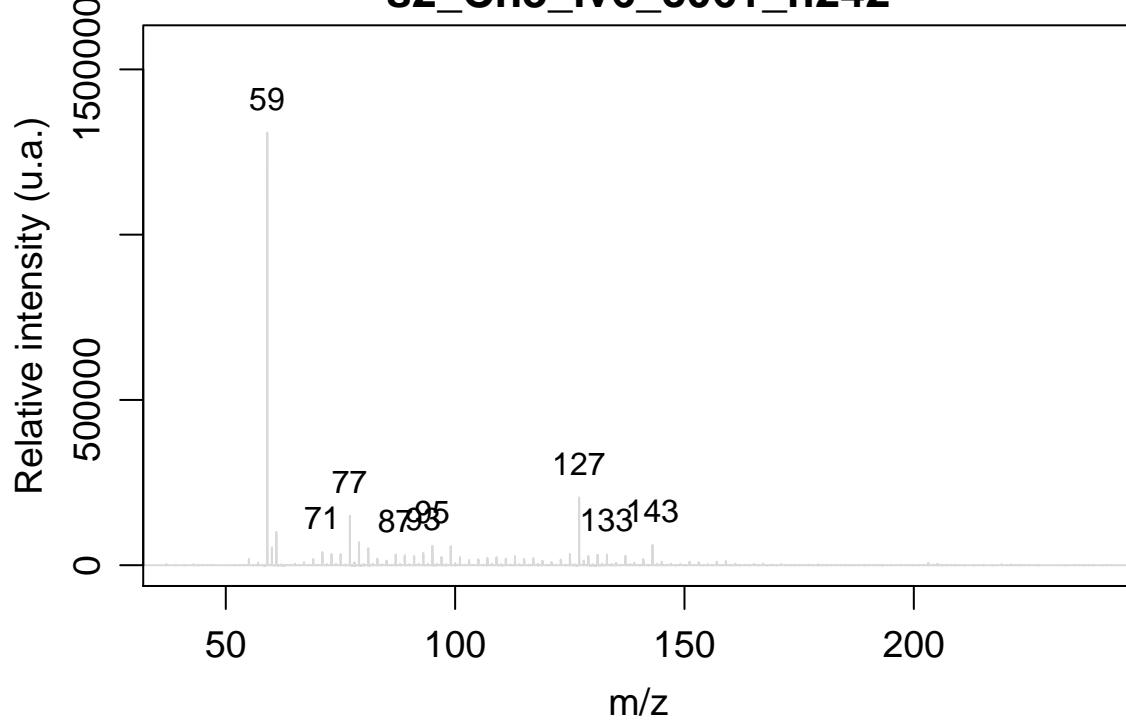
**s2\_Ch3\_1v6\_c057\_n226**



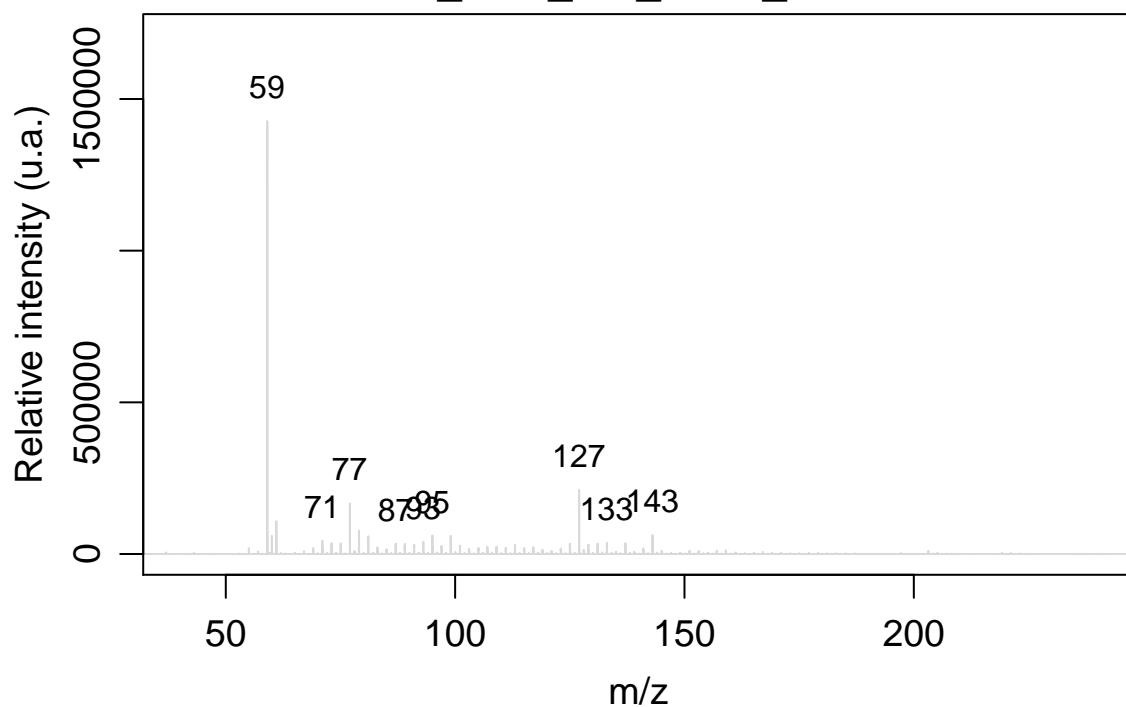
**s2\_Ch3\_!v6\_c059\_n234**



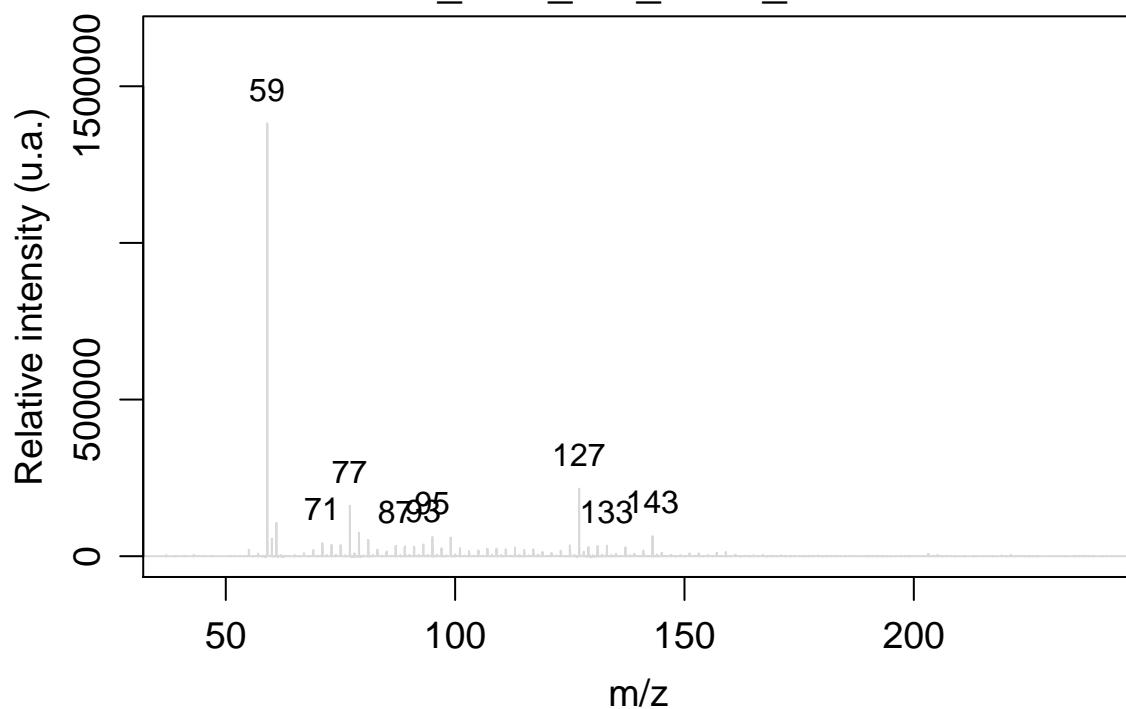
**s2\_Ch3\_!v6\_c061\_n242**



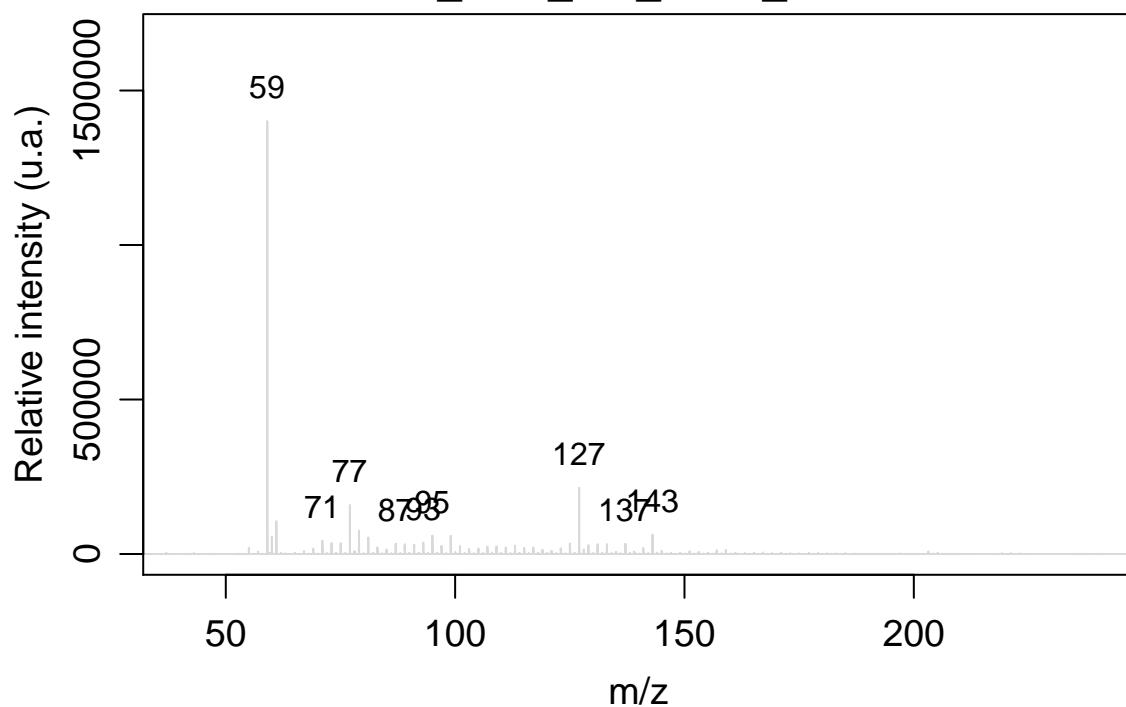
**s2\_Ch3\_1v6\_c063\_n250**



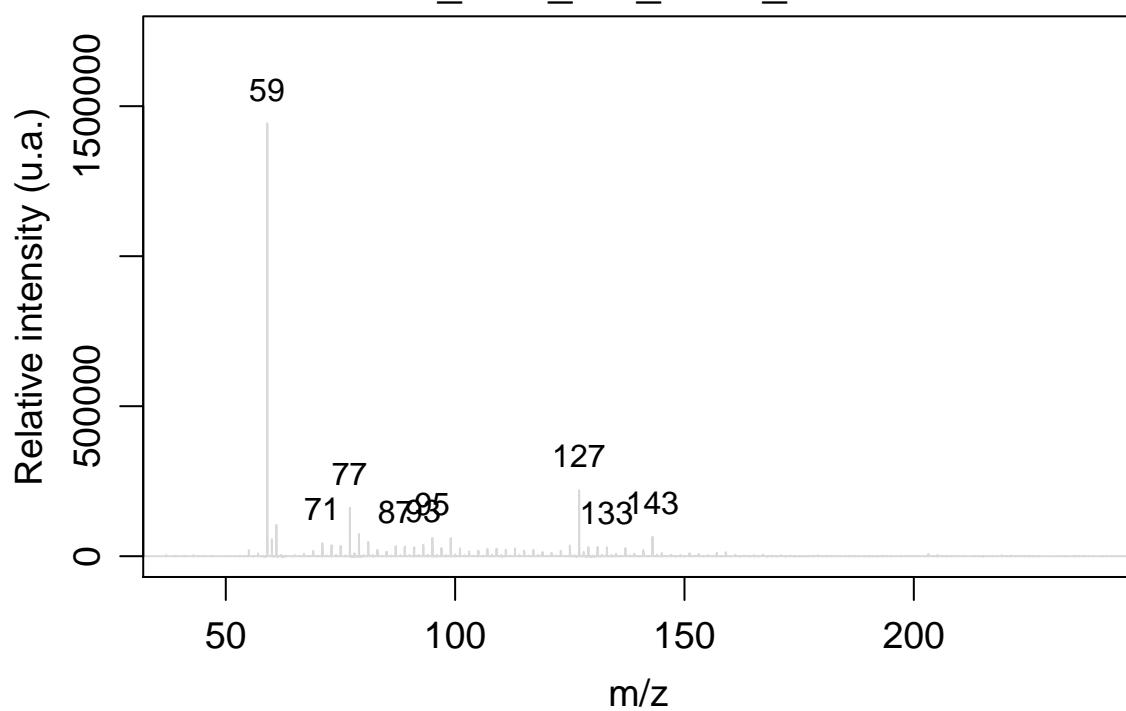
**s2\_Ch3\_1v6\_c065\_n258**



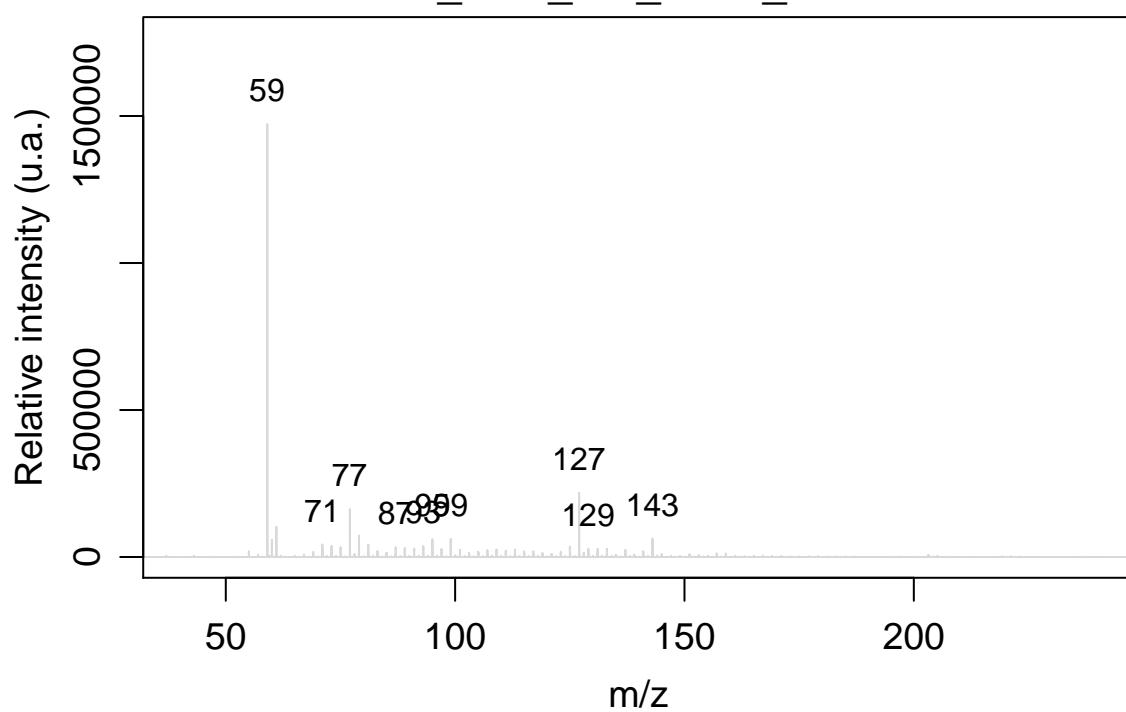
**s2\_Ch3\_1v6\_c067\_n266**



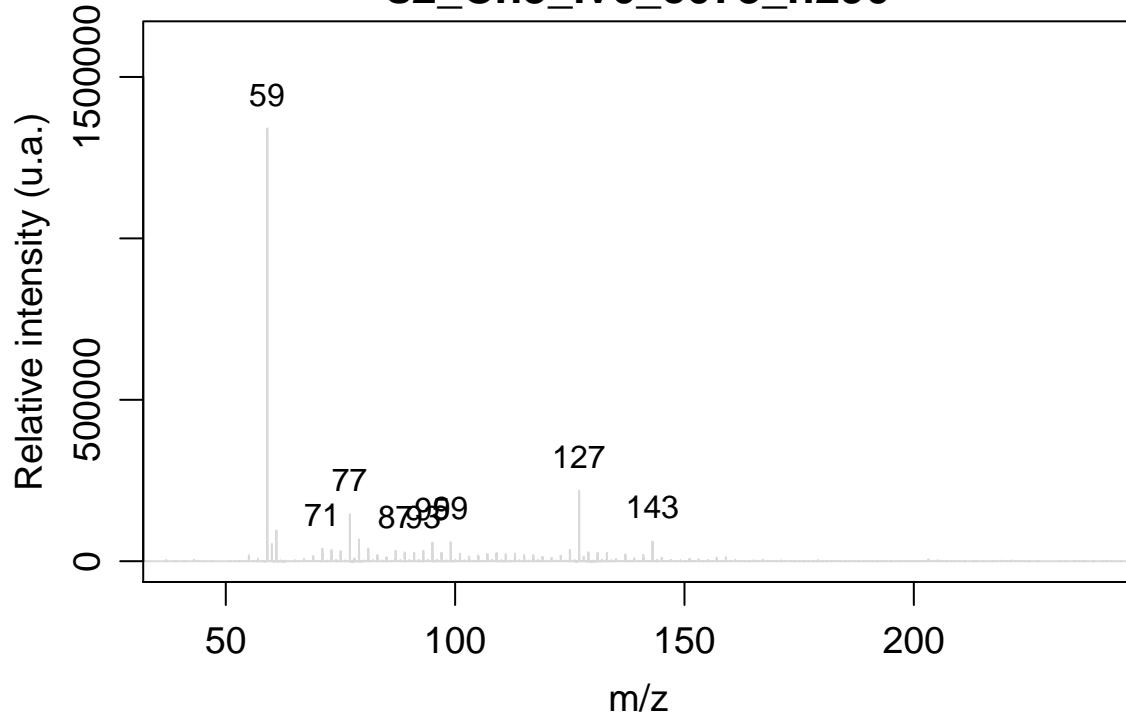
**s2\_Ch3\_1v6\_c069\_n274**

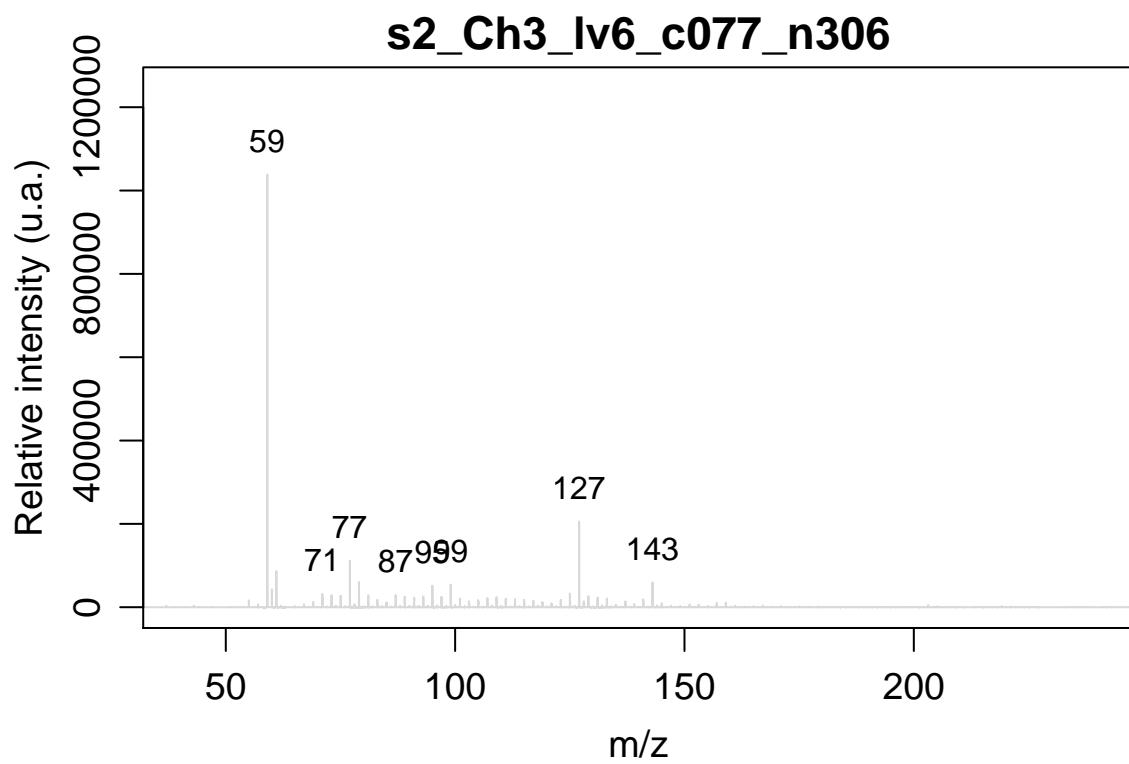
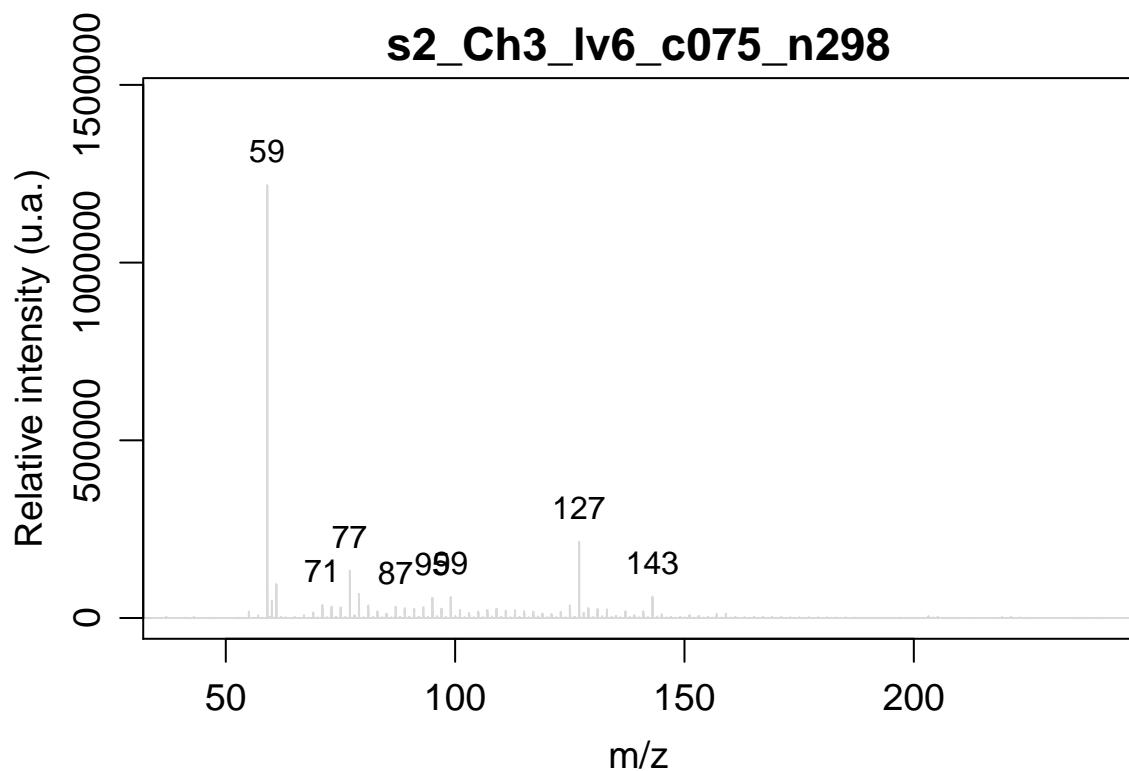


**s2\_Ch3\_1v6\_c071\_n282**

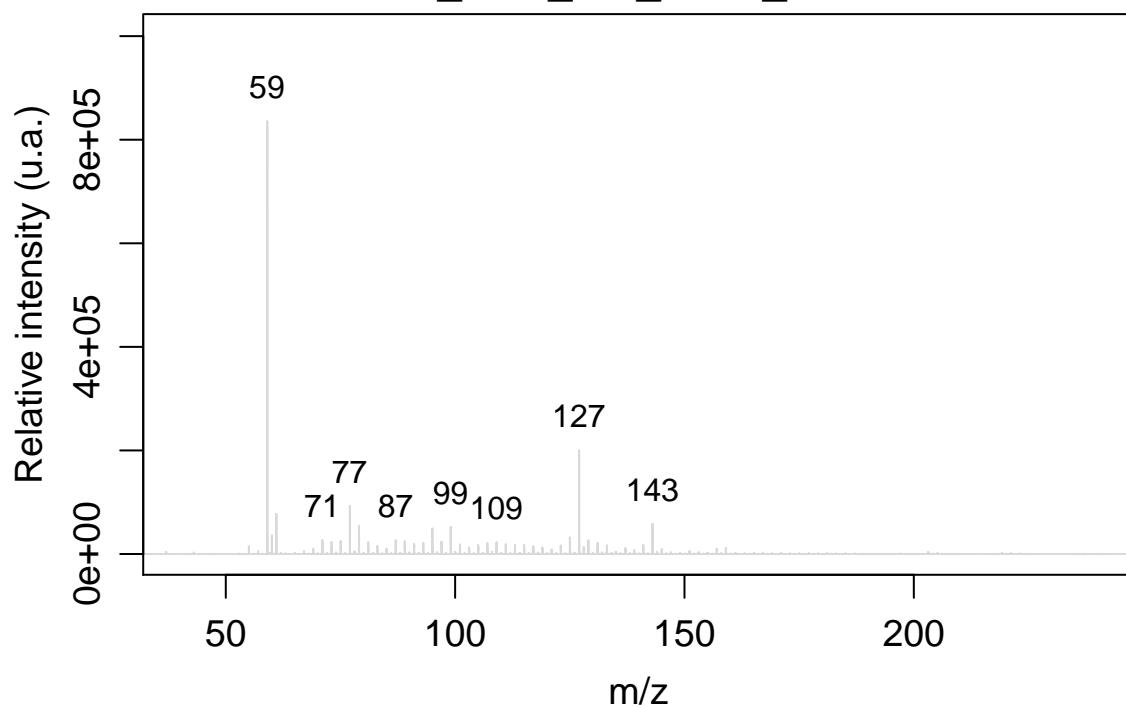


**s2\_Ch3\_1v6\_c073\_n290**

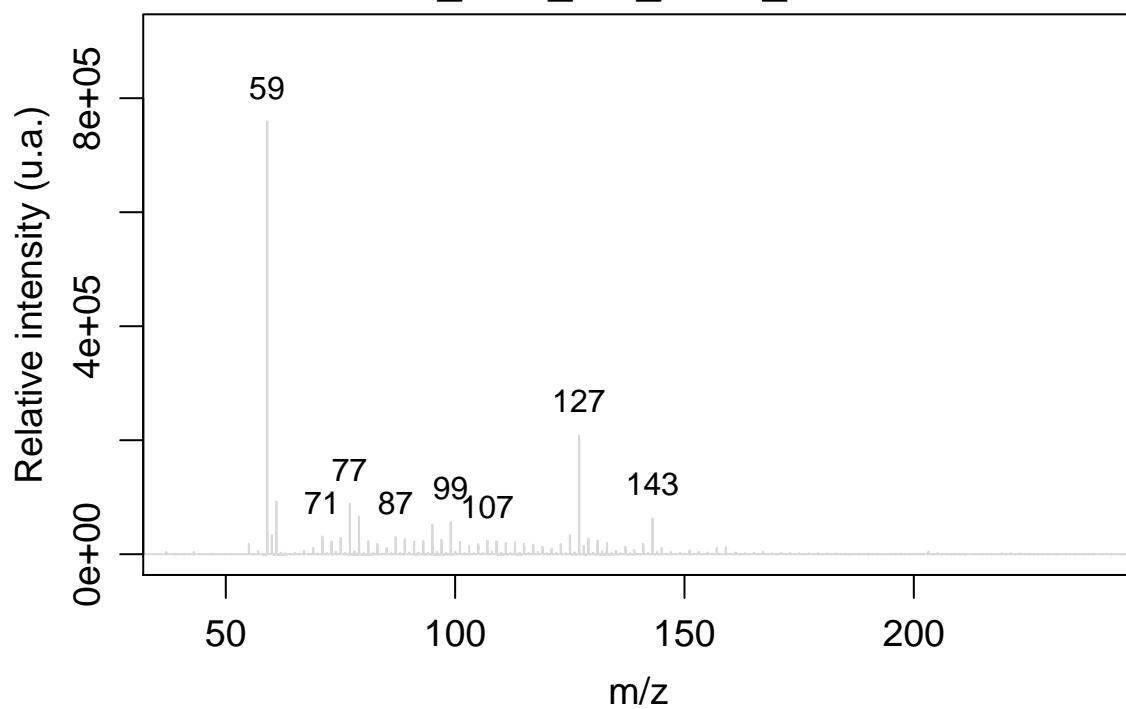




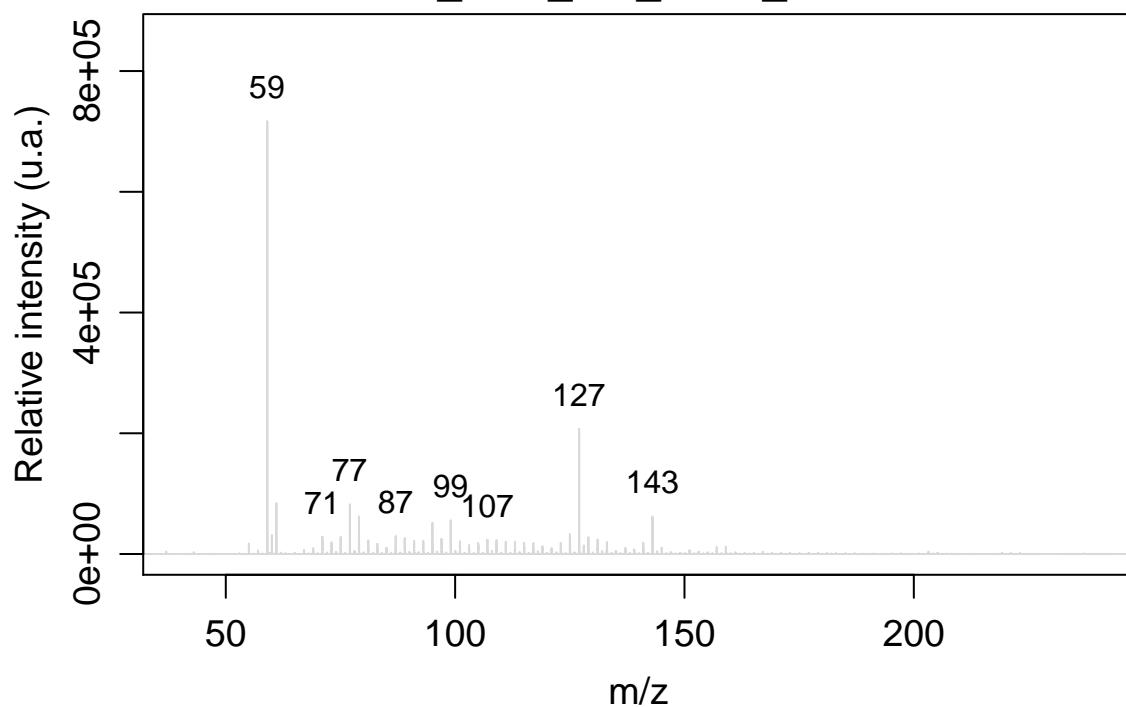
**s2\_Ch3\_lv6\_c079\_n314**



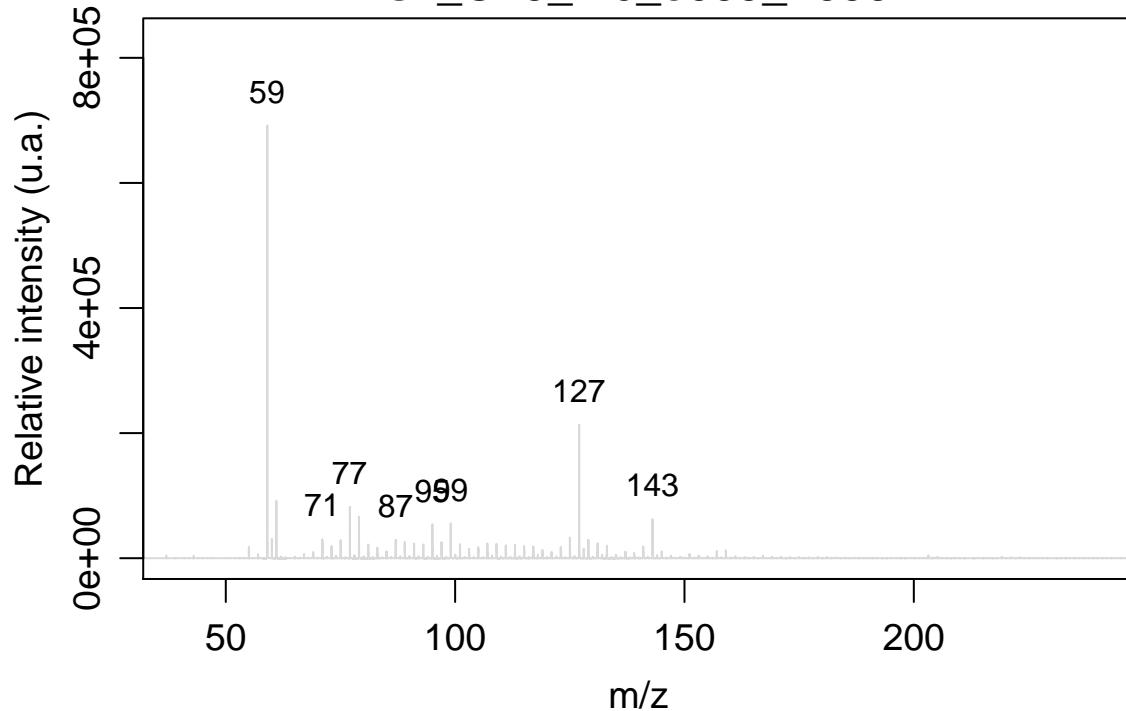
**s2\_Ch3\_lv6\_c081\_n322**



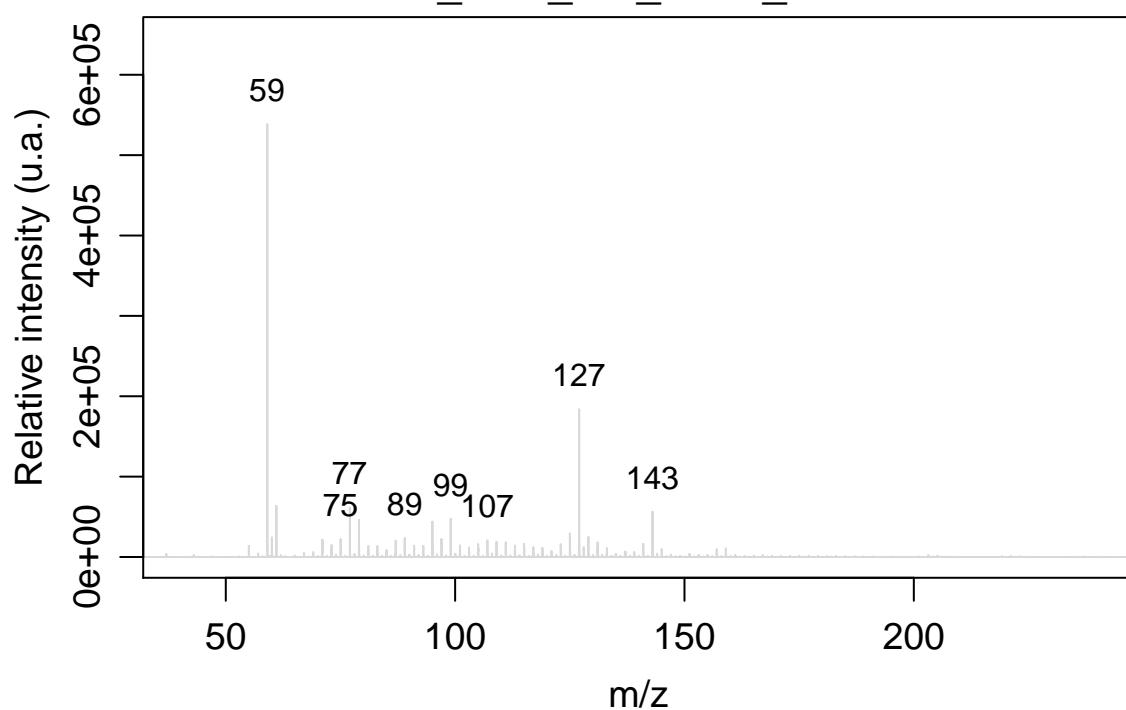
**s2\_Ch3\_lv6\_c083\_n330**



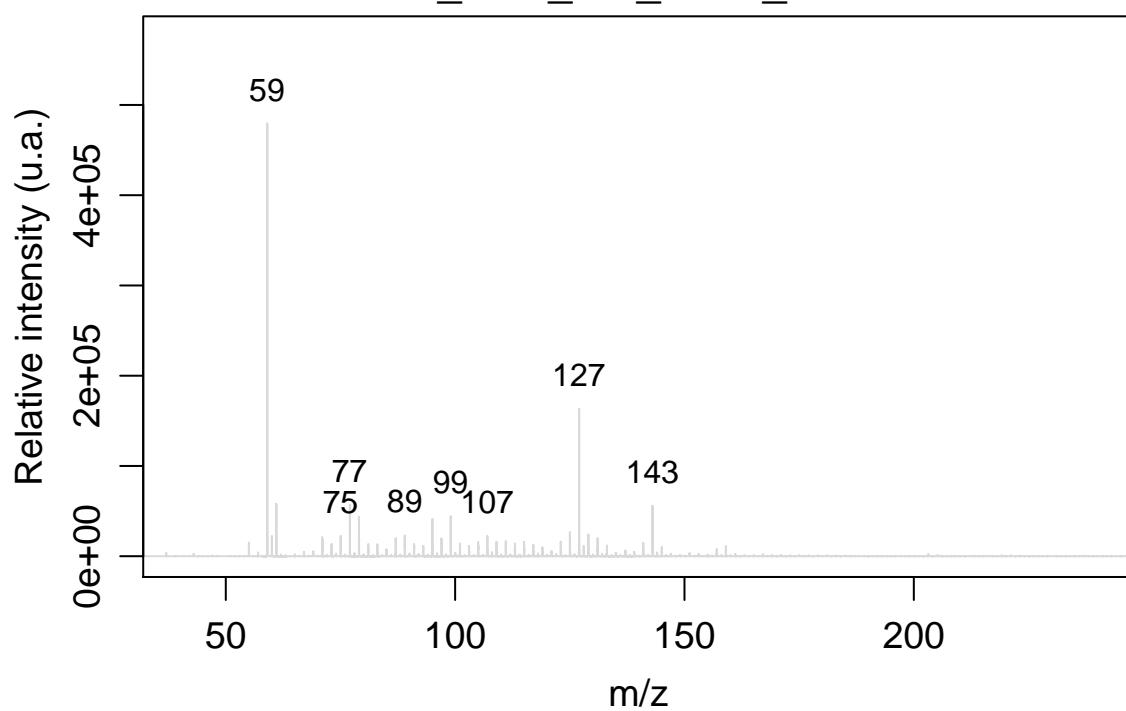
**s2\_Ch3\_lv6\_c085\_n338**



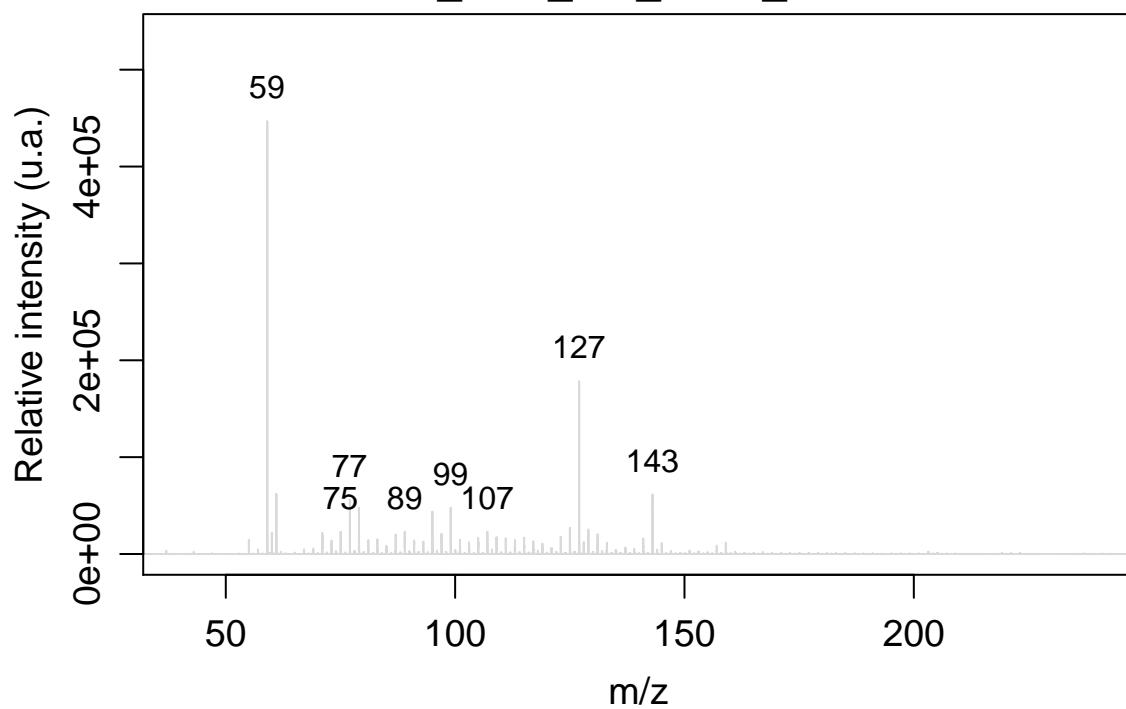
**s2\_Ch3\_!v6\_c087\_n346**



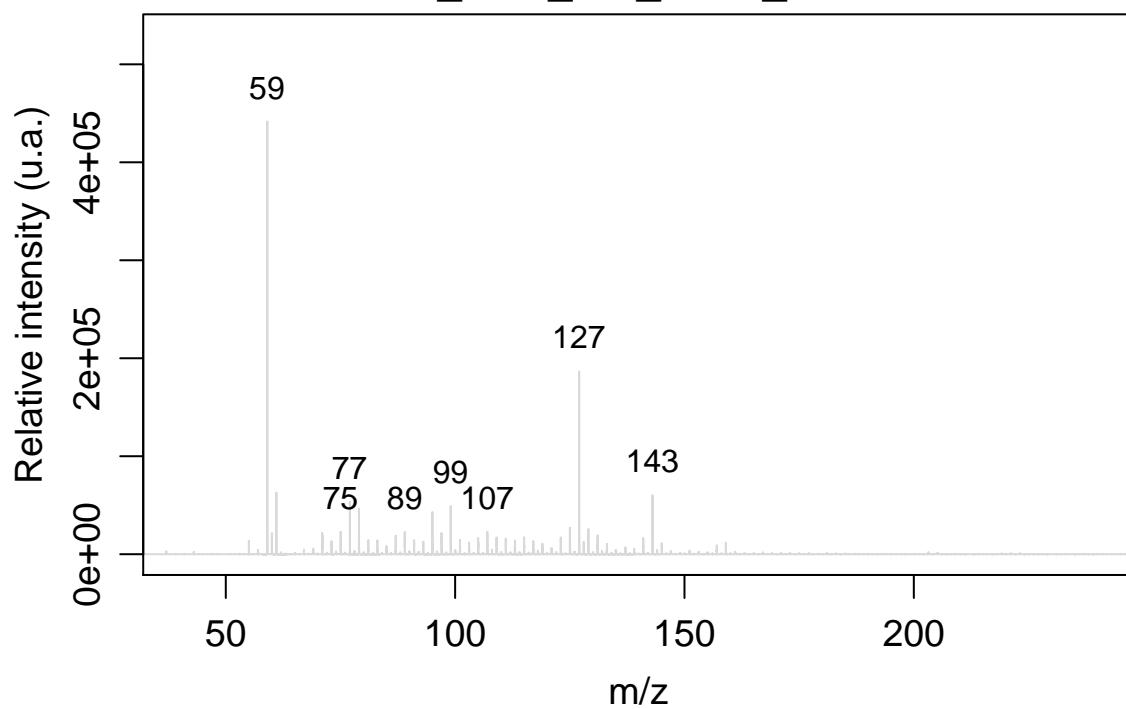
**s2\_Ch3\_!v6\_c089\_n354**



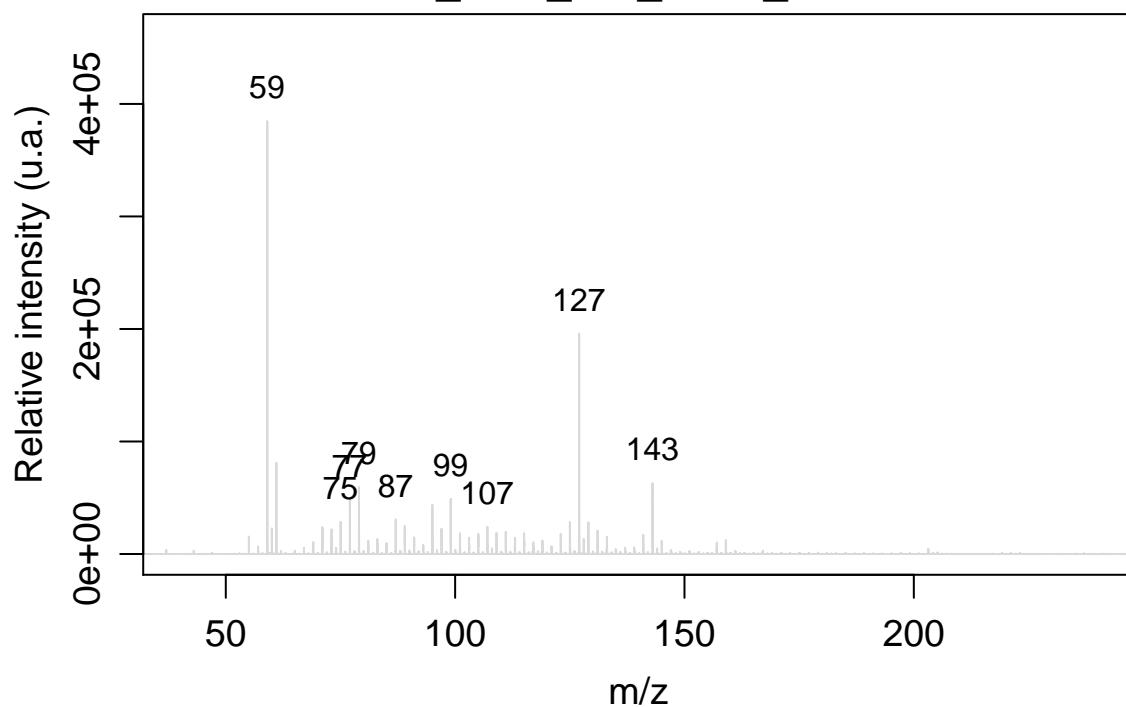
**s2\_Ch3\_lv6\_c091\_n362**



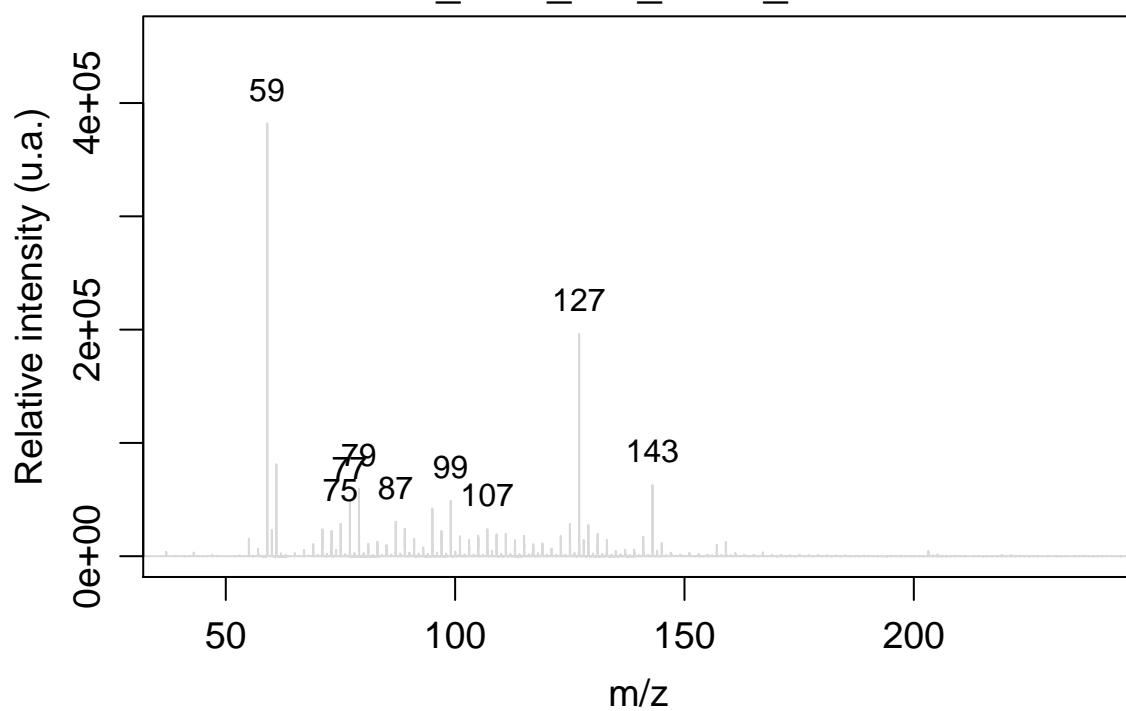
**s2\_Ch3\_lv6\_c093\_n370**



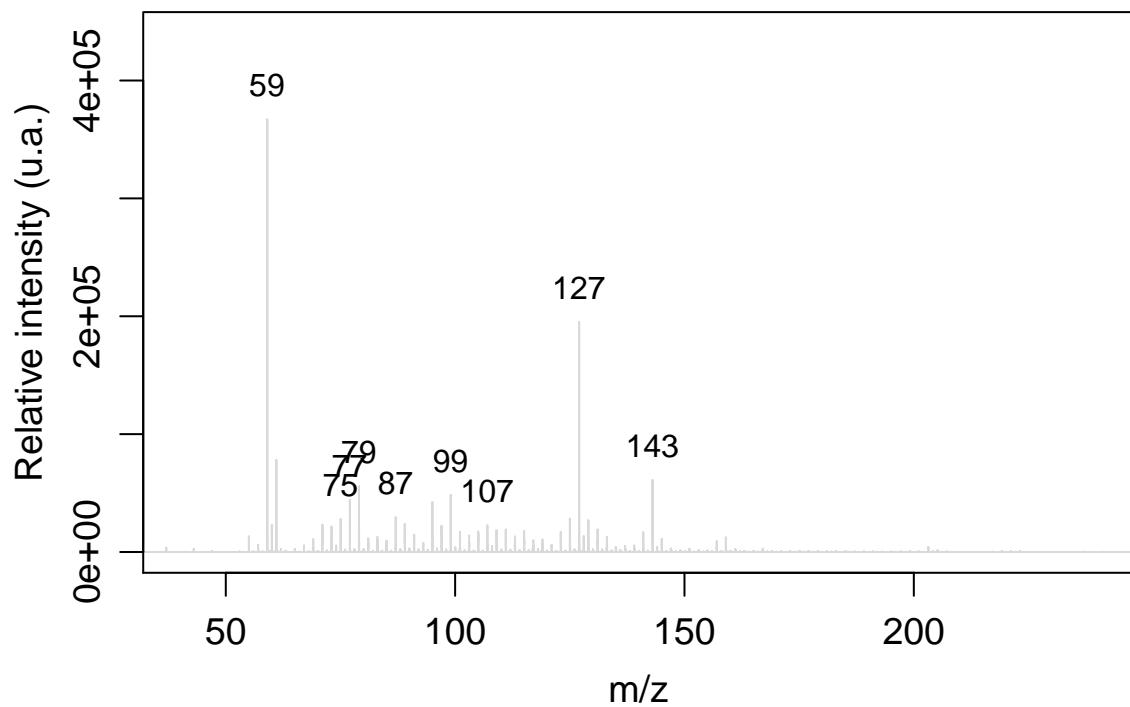
**s2\_Ch4\_bl2\_c025\_n099**



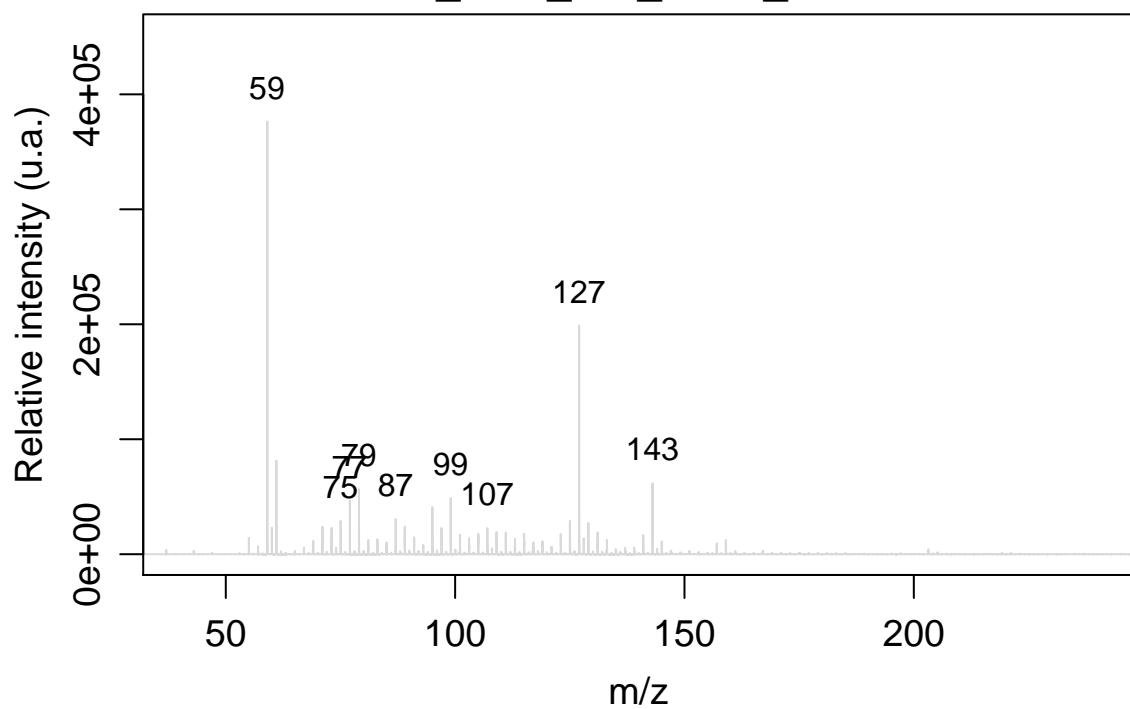
**s2\_Ch4\_bl2\_c027\_n107**



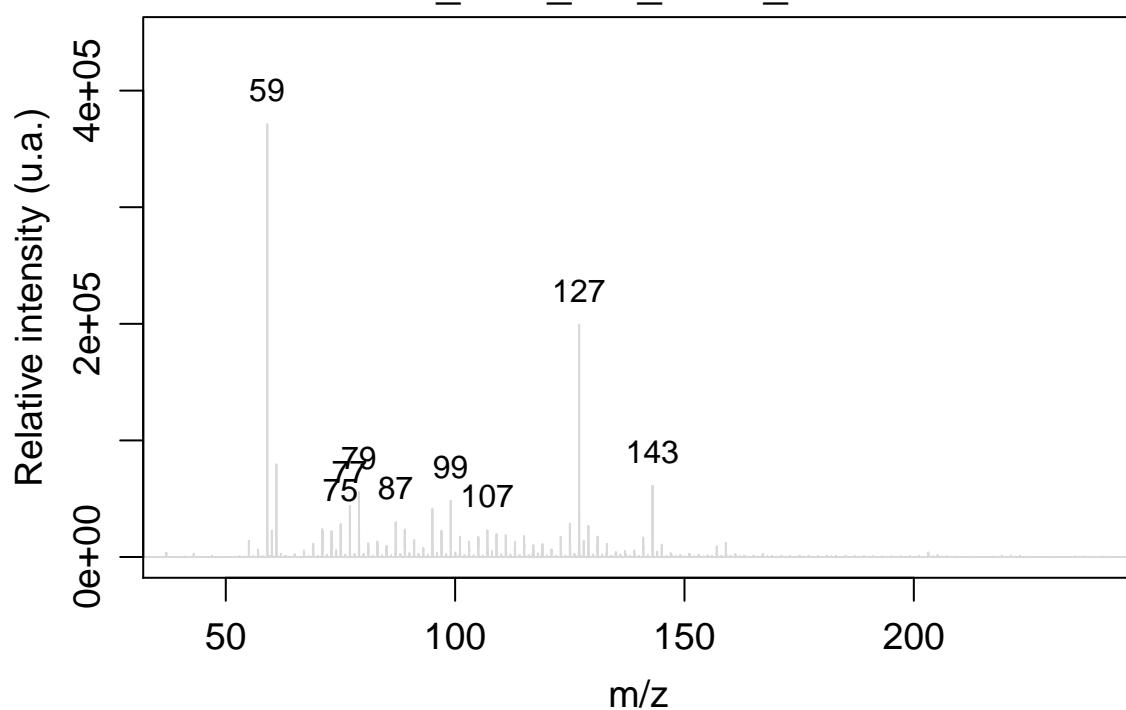
**s2\_Ch4\_bl2\_c029\_n115**



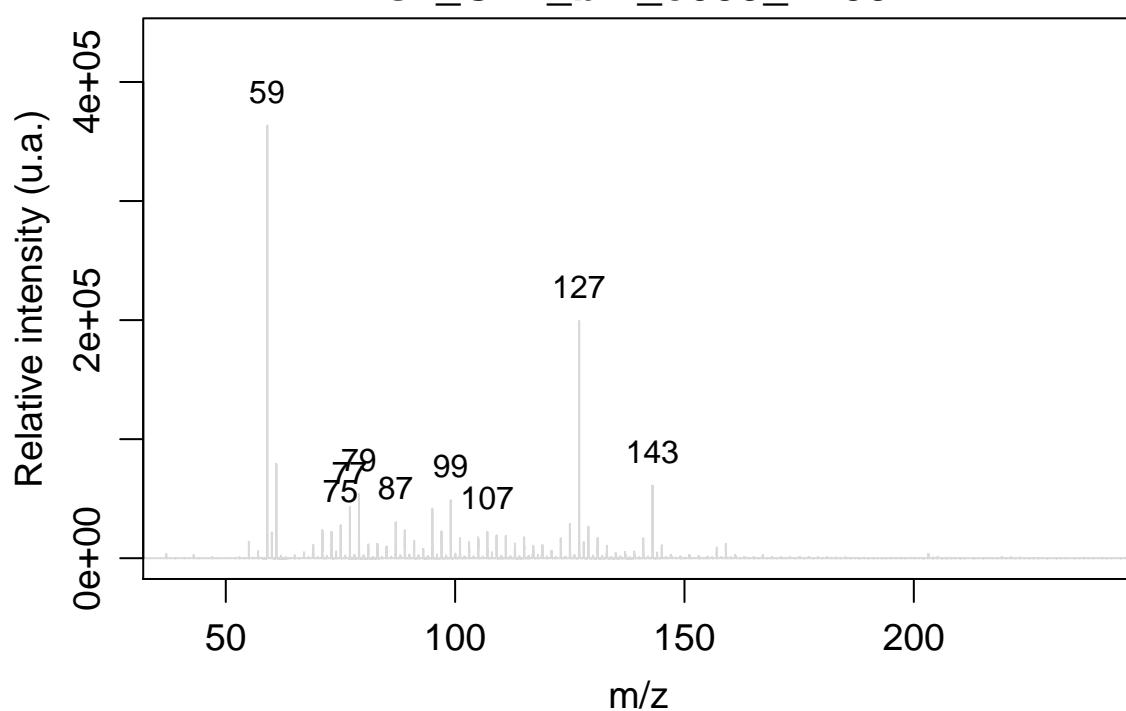
**s2\_Ch4\_bl2\_c031\_n123**



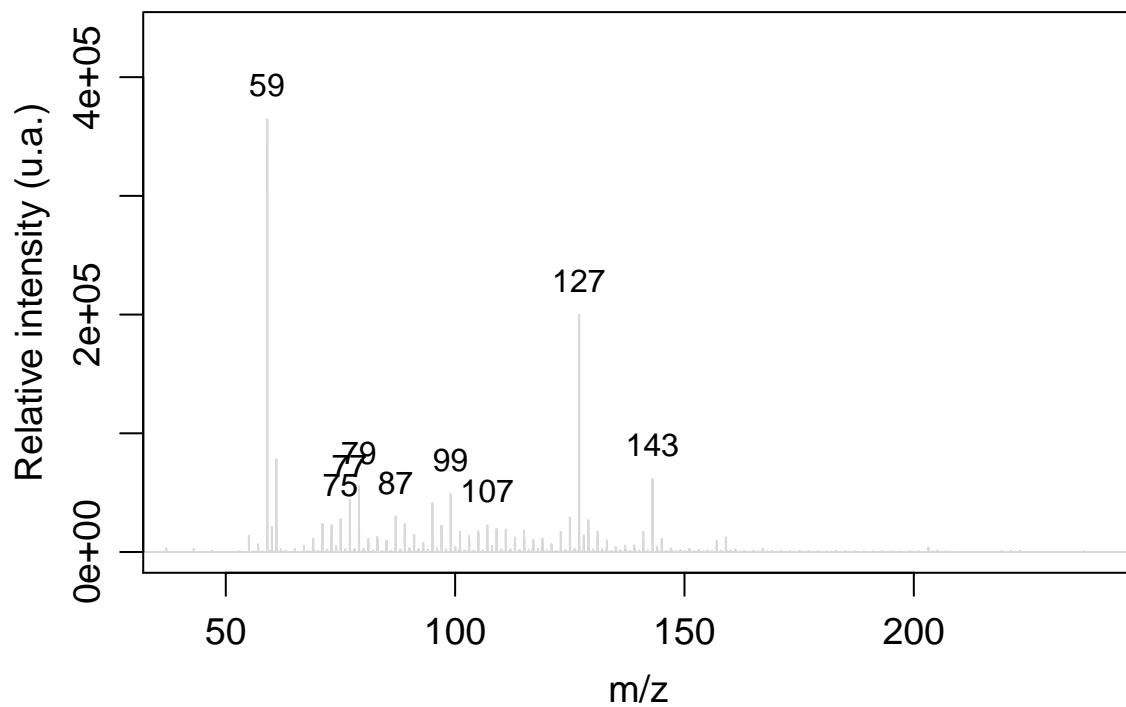
**s2\_Ch4\_bl2\_c033\_n131**



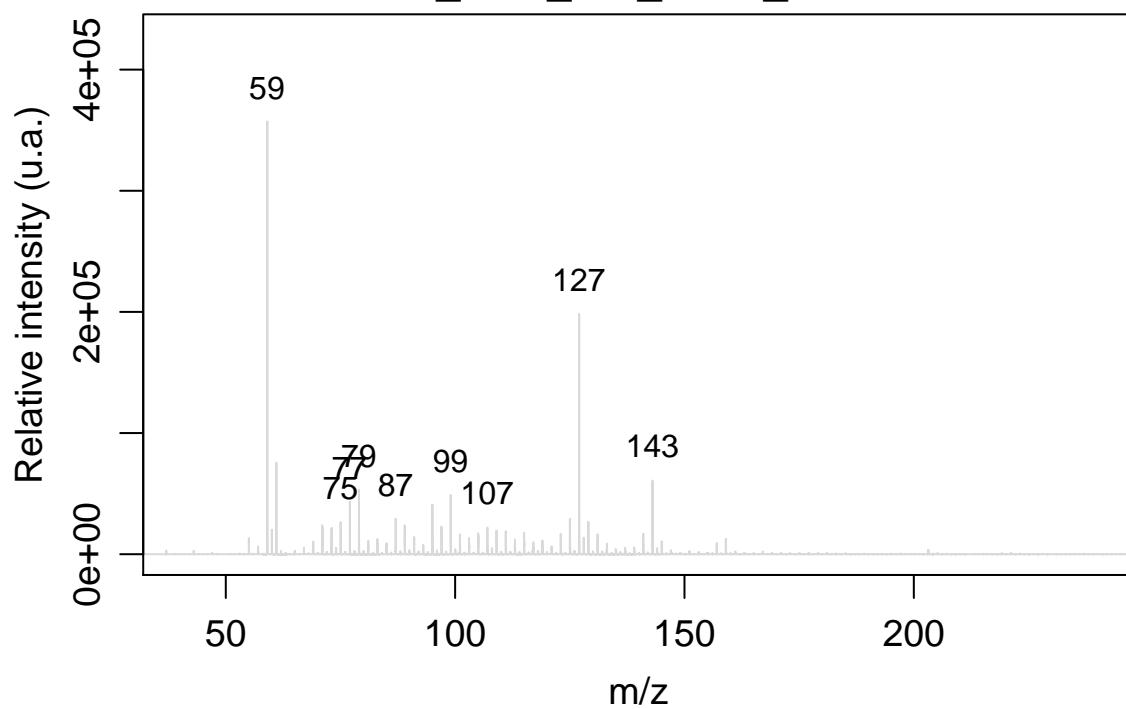
**s2\_Ch4\_bl2\_c035\_n139**



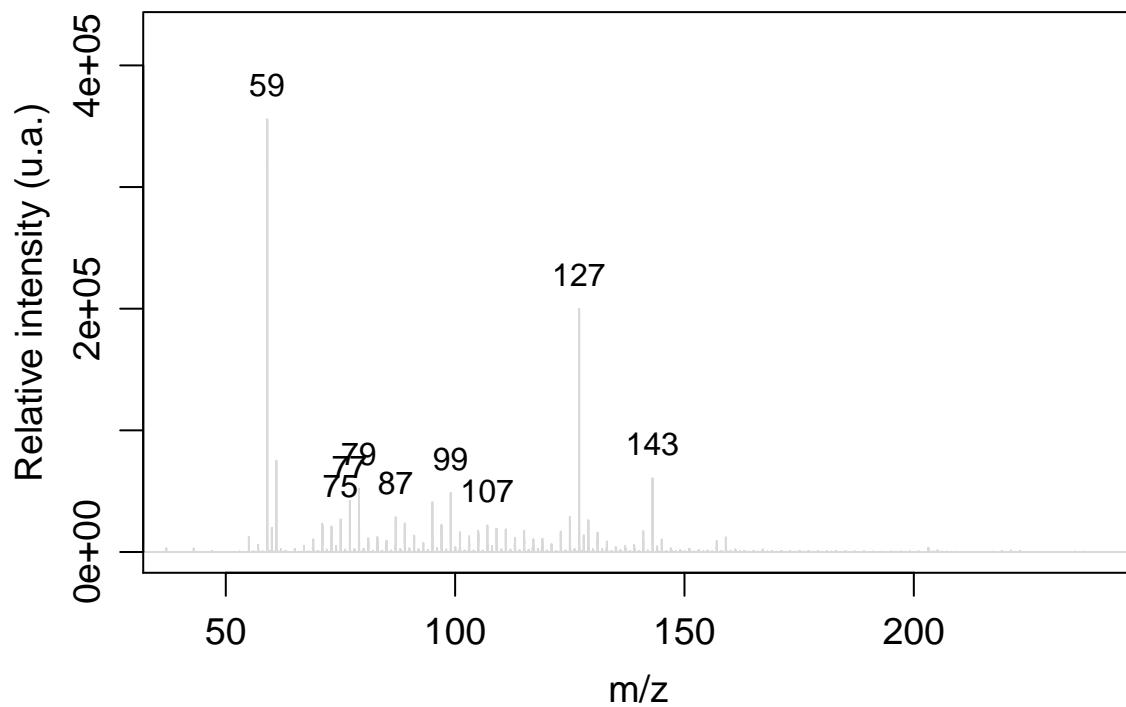
**s2\_Ch4\_bl2\_c037\_n147**



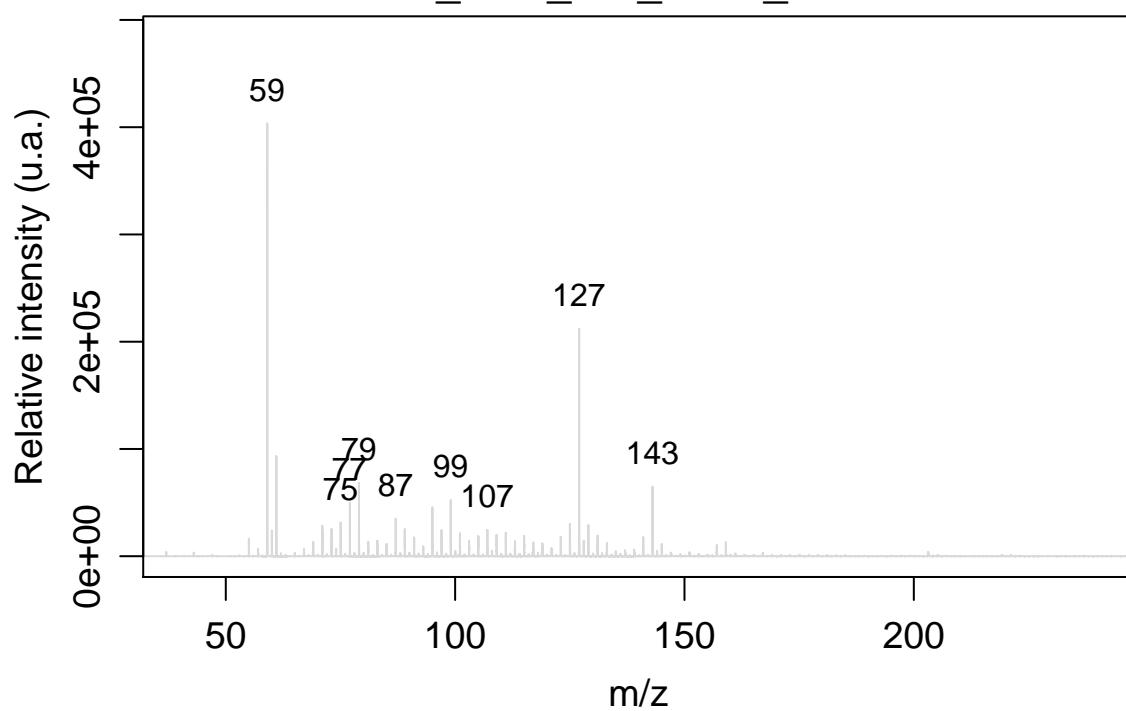
**s2\_Ch4\_bl2\_c039\_n155**



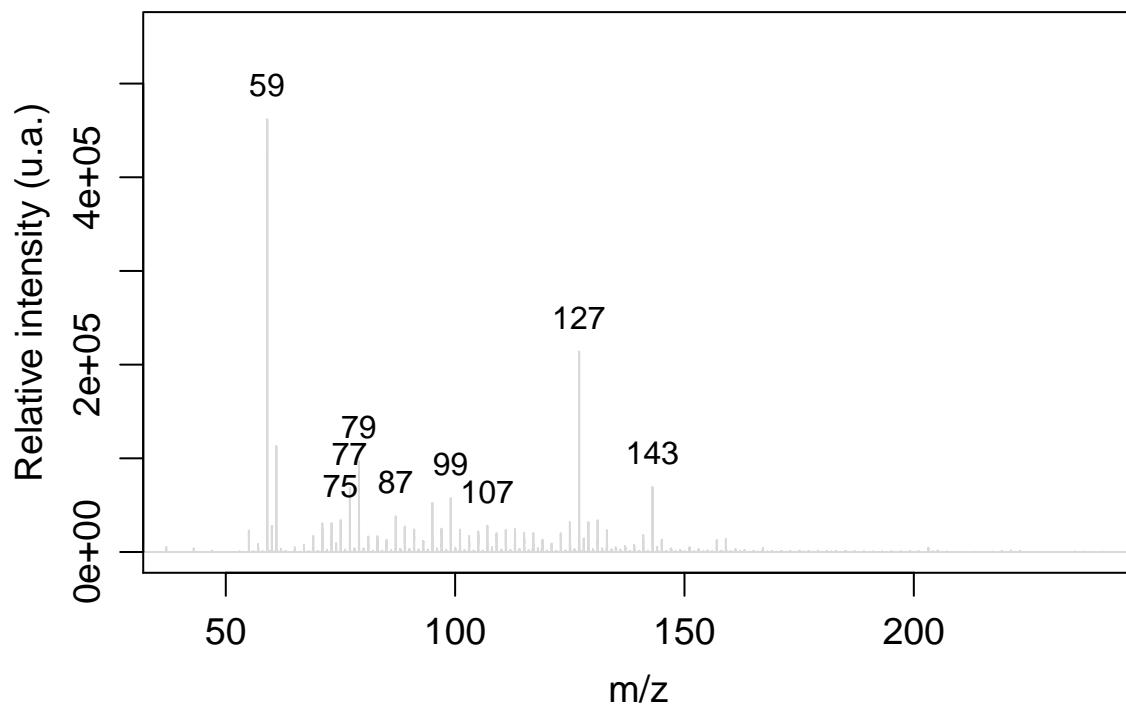
**s2\_Ch4\_bl2\_c041\_n163**



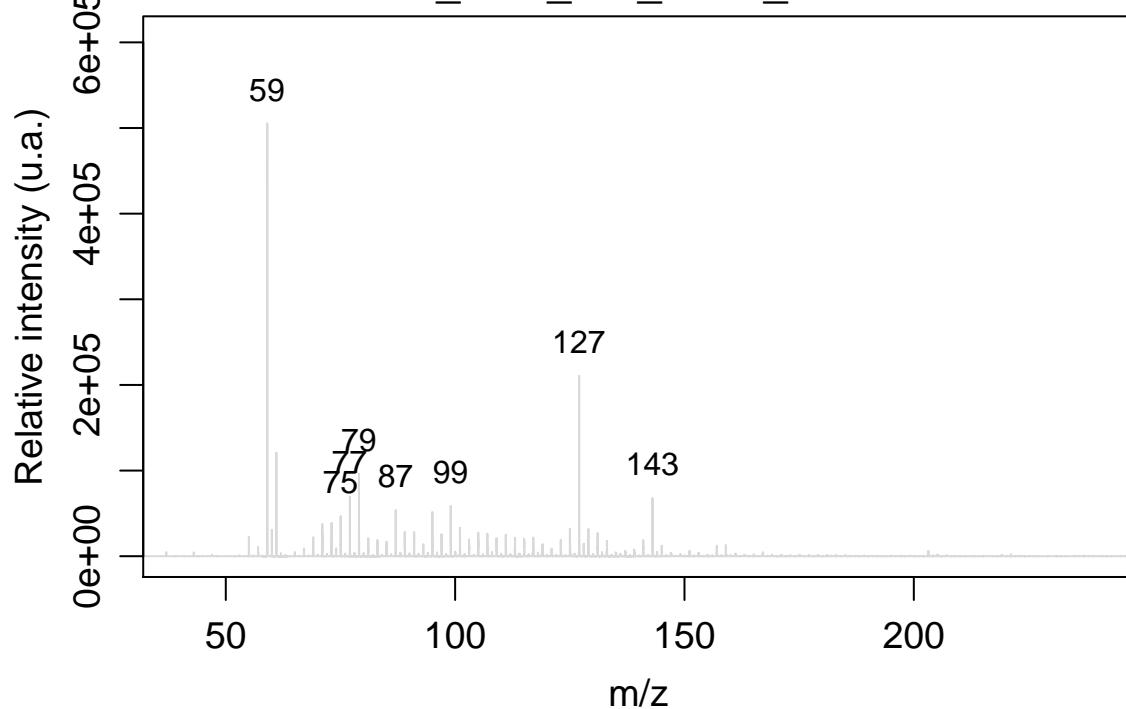
**s2\_Ch4\_bl2\_c043\_n171**



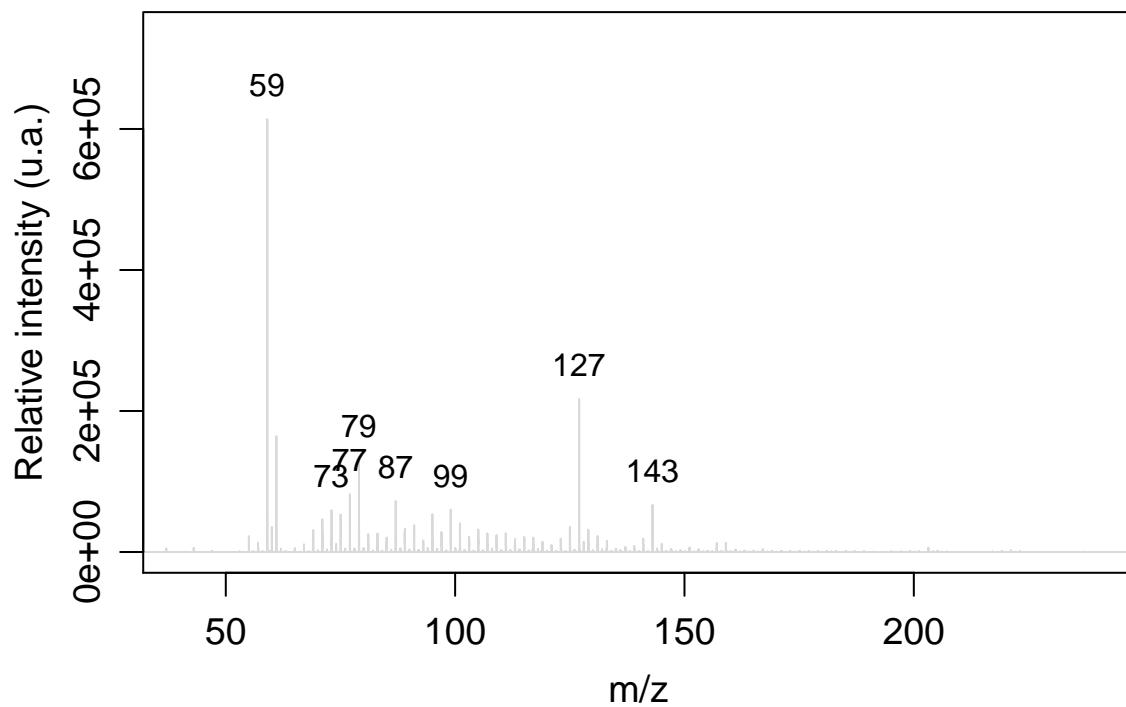
**s2\_Ch4\_bl2\_c045\_n179**



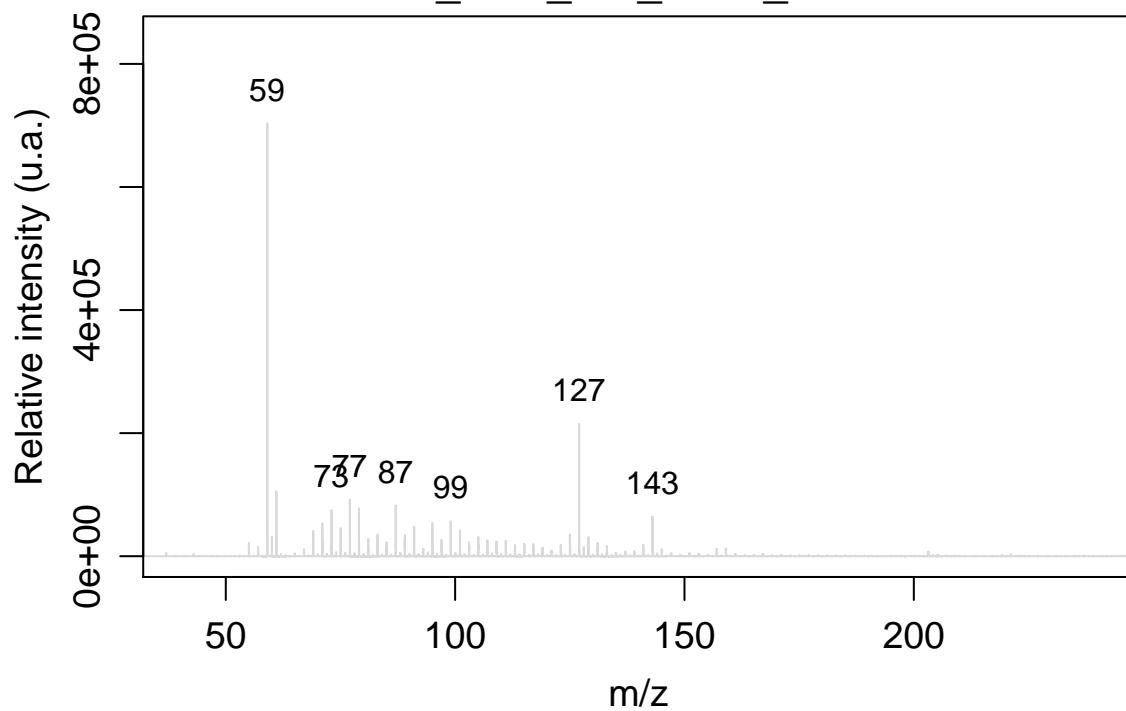
**s2\_Ch4\_bl2\_c047\_n187**



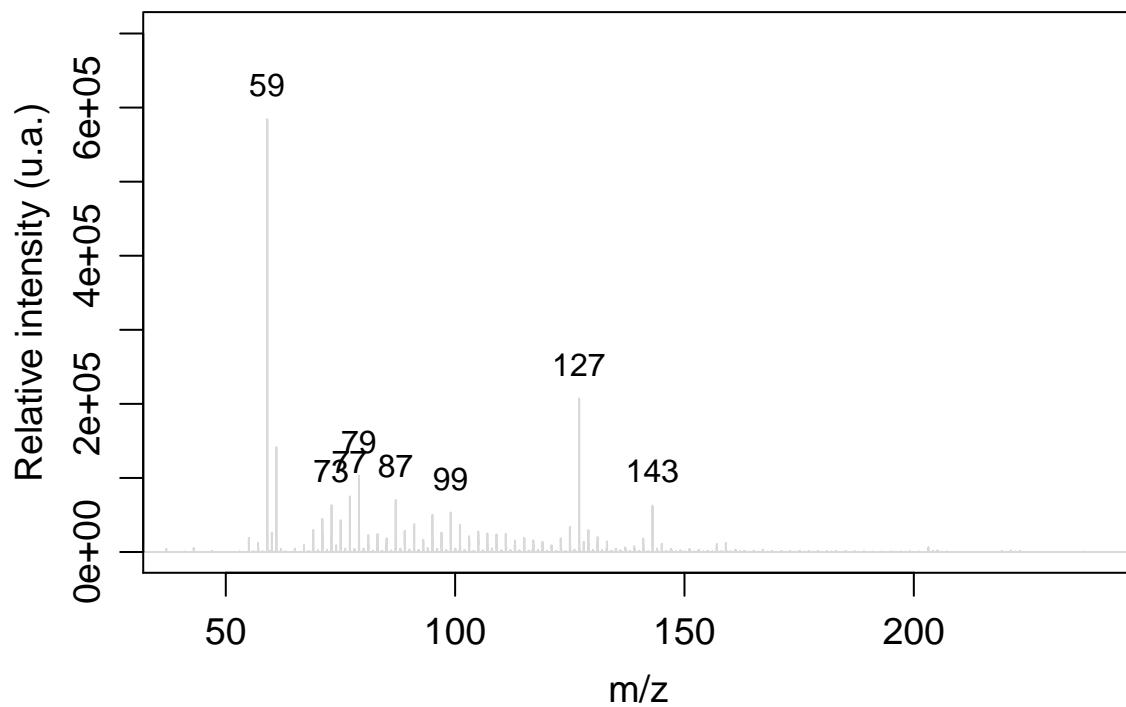
**s2\_Ch4\_bl2\_c049\_n195**



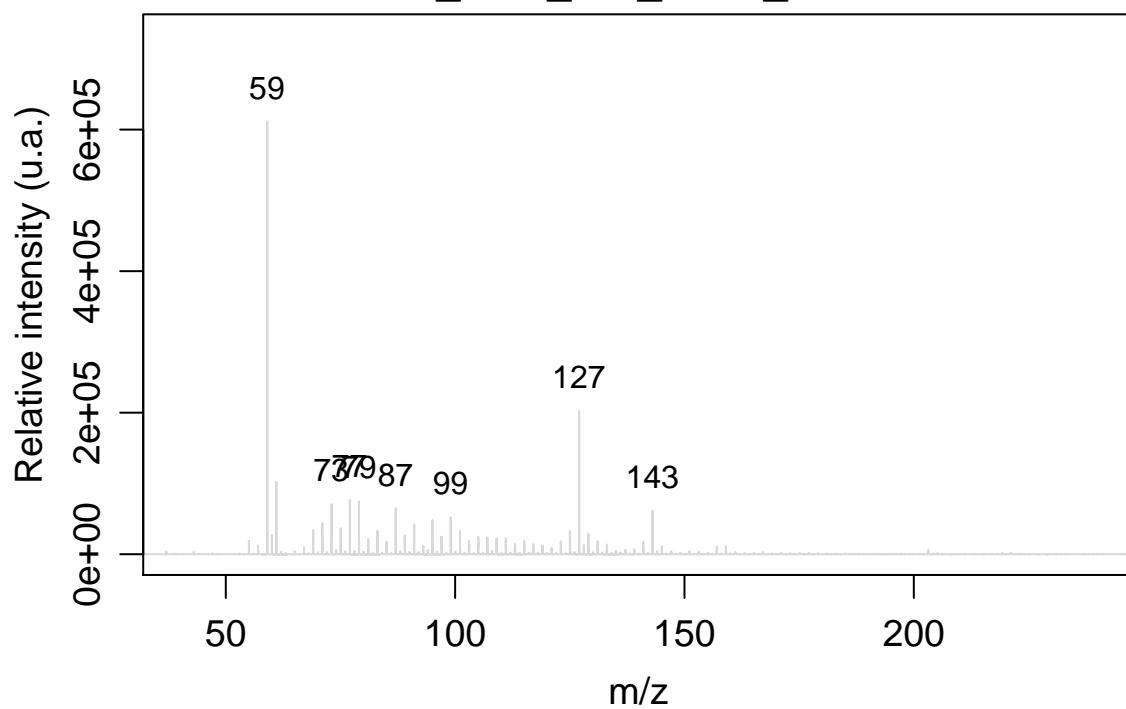
**s2\_Ch4\_bl2\_c051\_n203**



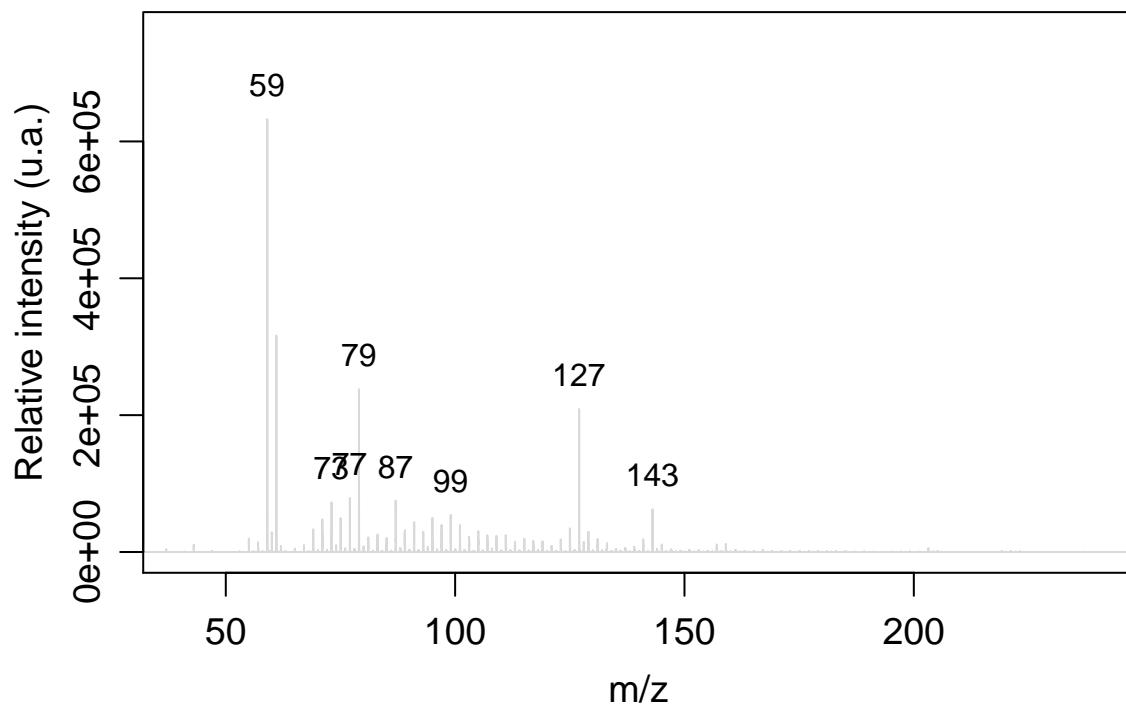
**s2\_Ch4\_bl2\_c053\_n211**



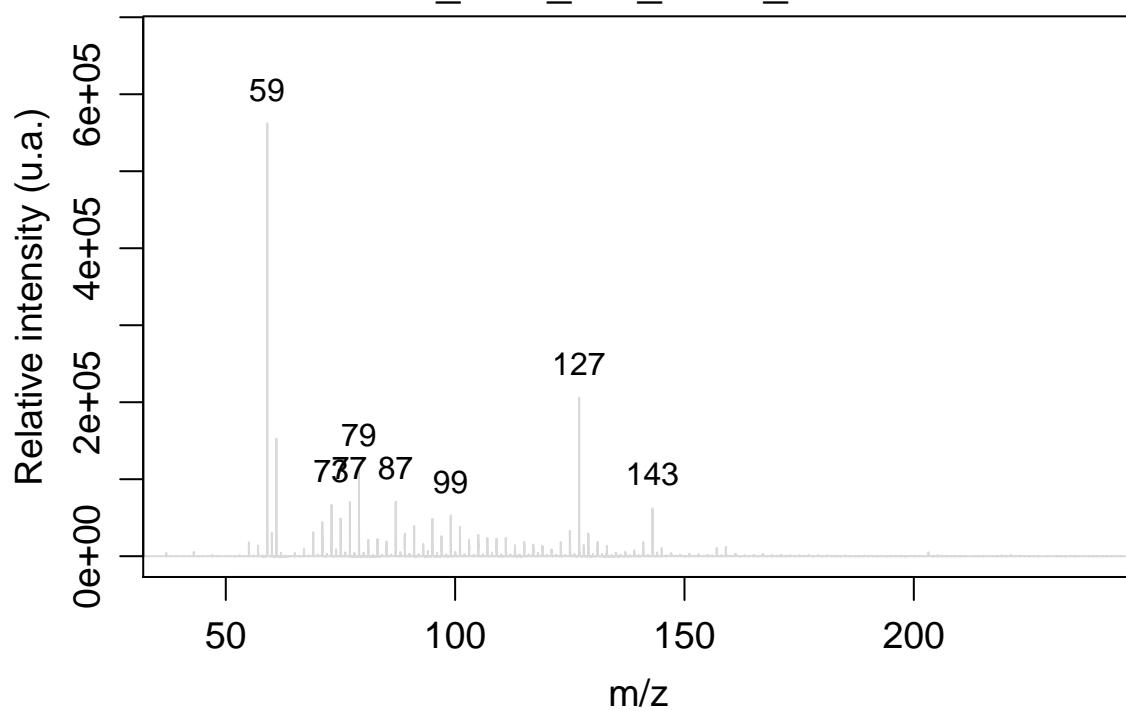
**s2\_Ch4\_bl2\_c055\_n219**



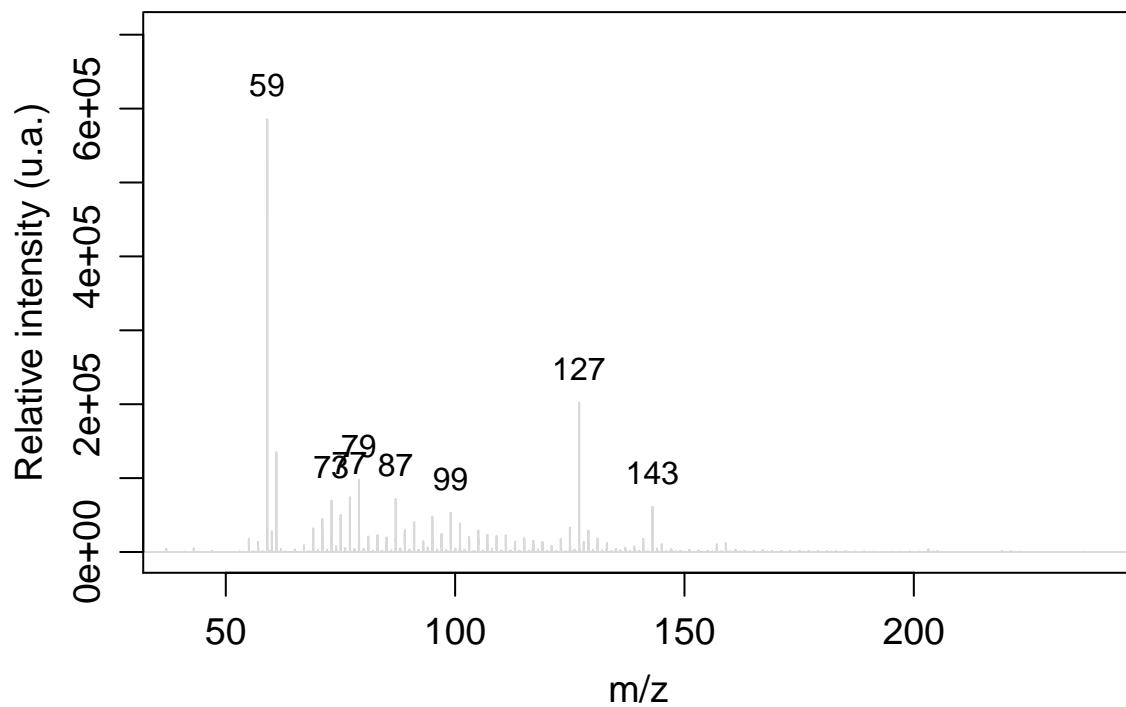
**s2\_Ch4\_bl2\_c057\_n227**



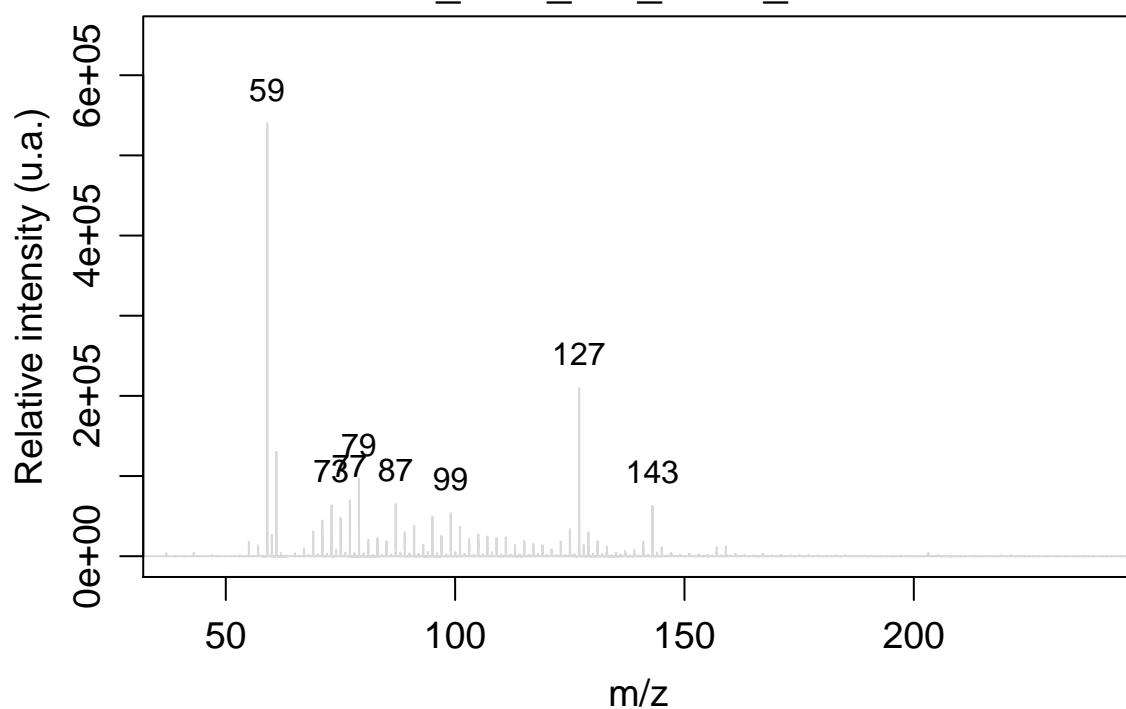
**s2\_Ch4\_bl2\_c059\_n235**



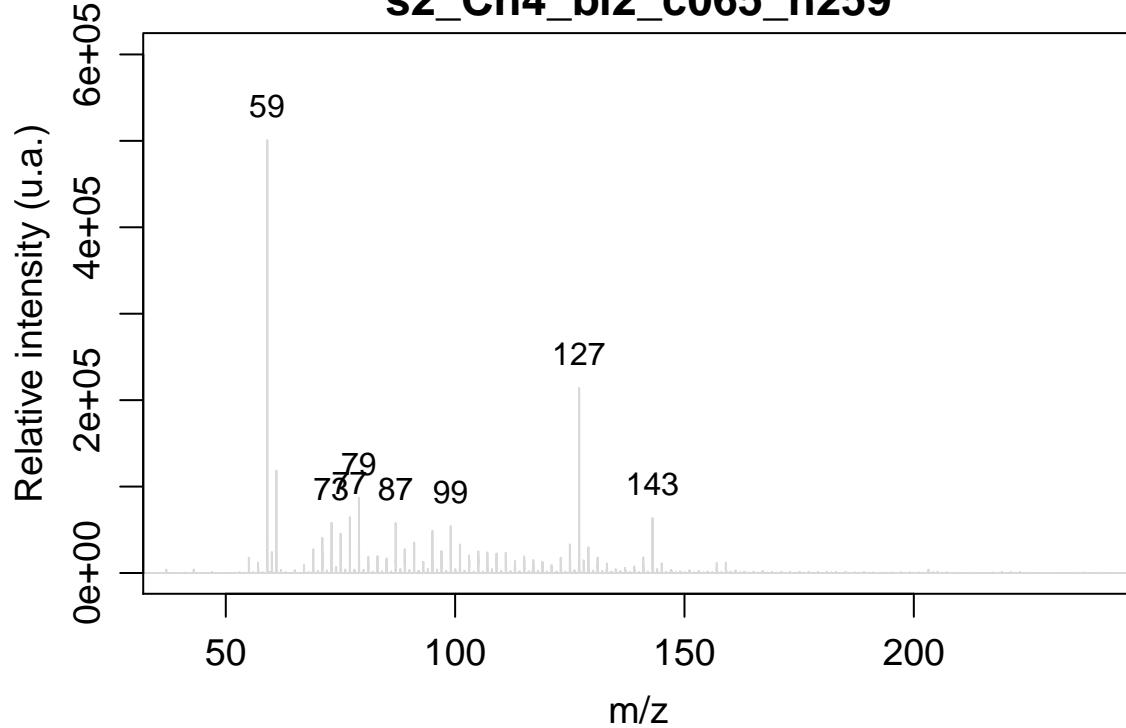
**s2\_Ch4\_bl2\_c061\_n243**



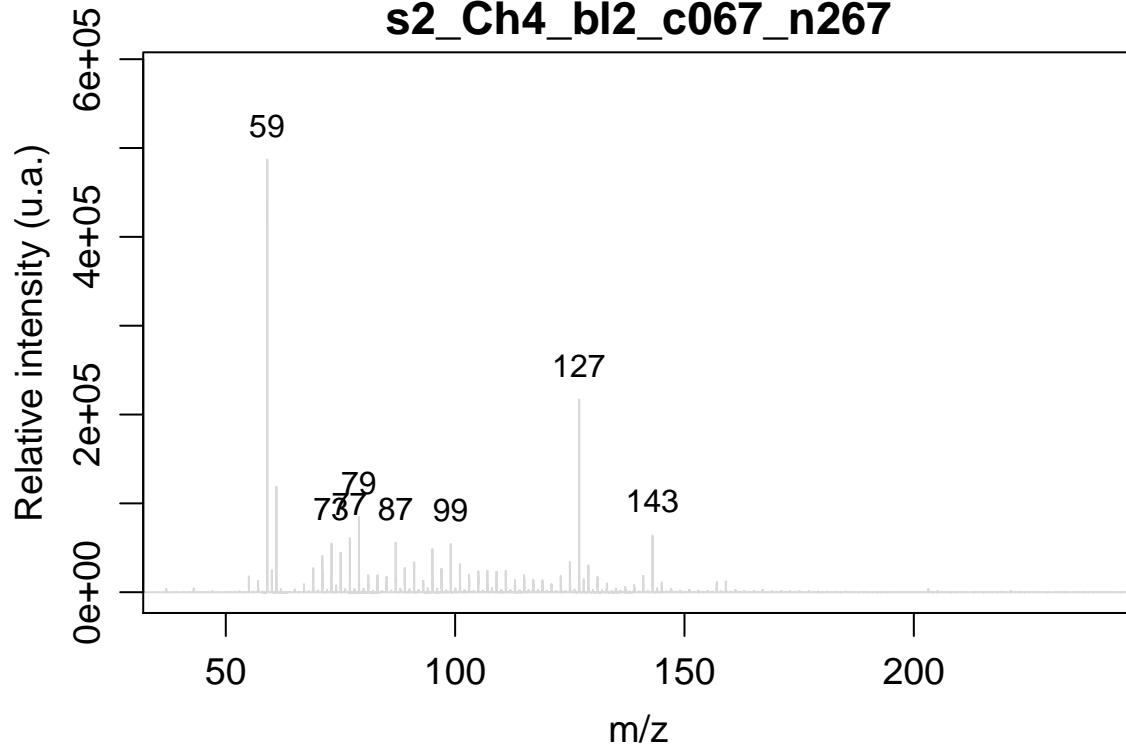
**s2\_Ch4\_bl2\_c063\_n251**



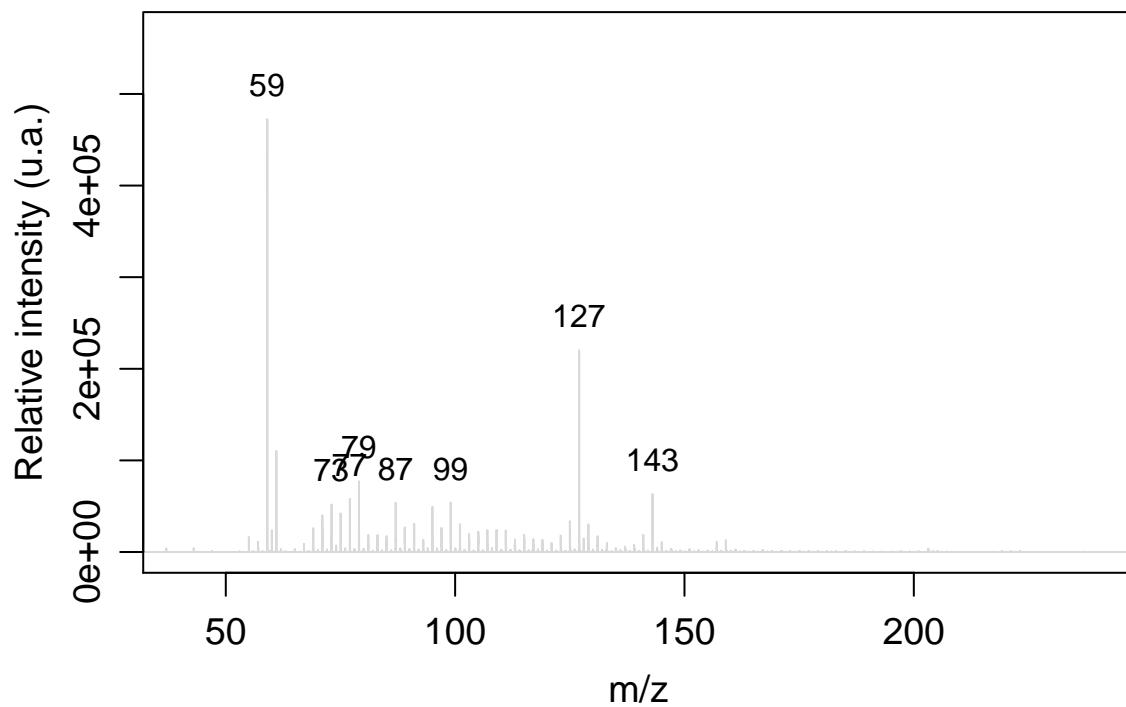
**s2\_Ch4\_bl2\_c065\_n259**



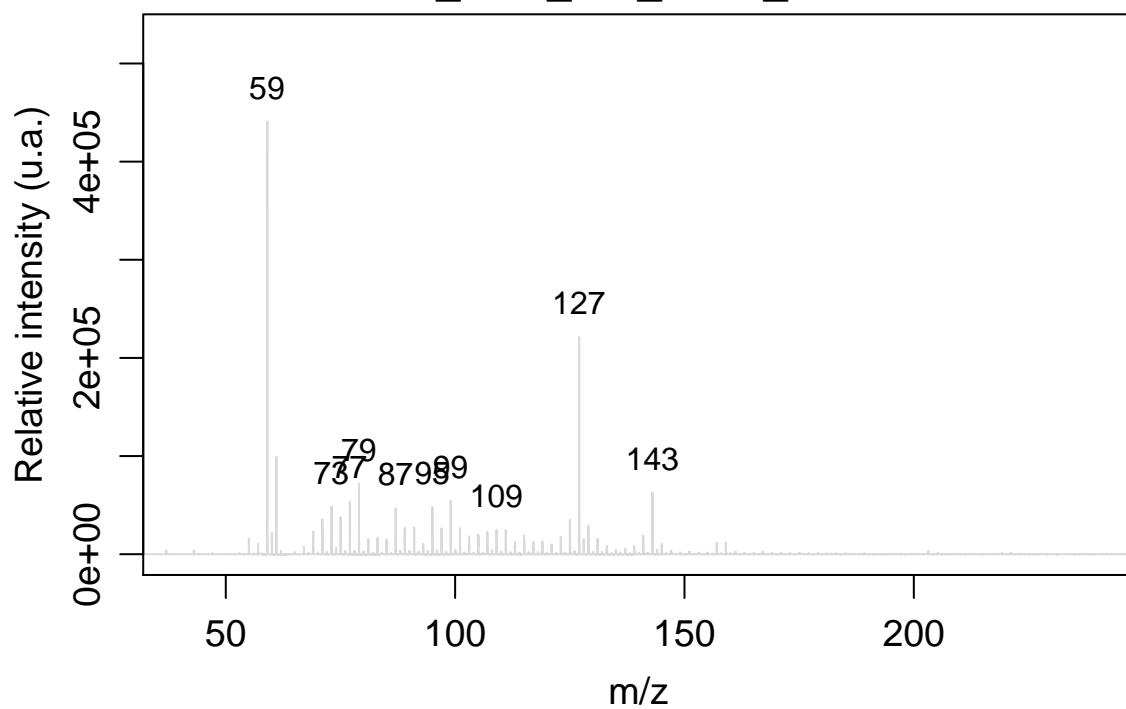
**s2\_Ch4\_bl2\_c067\_n267**



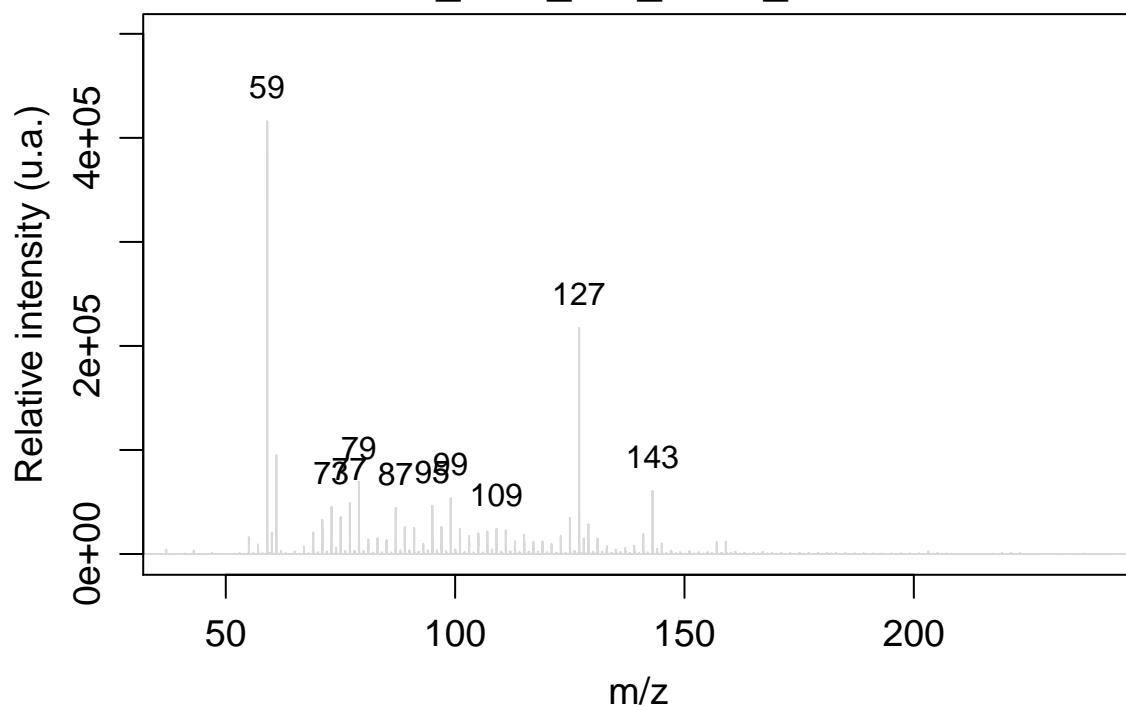
**s2\_Ch4\_bl2\_c069\_n275**



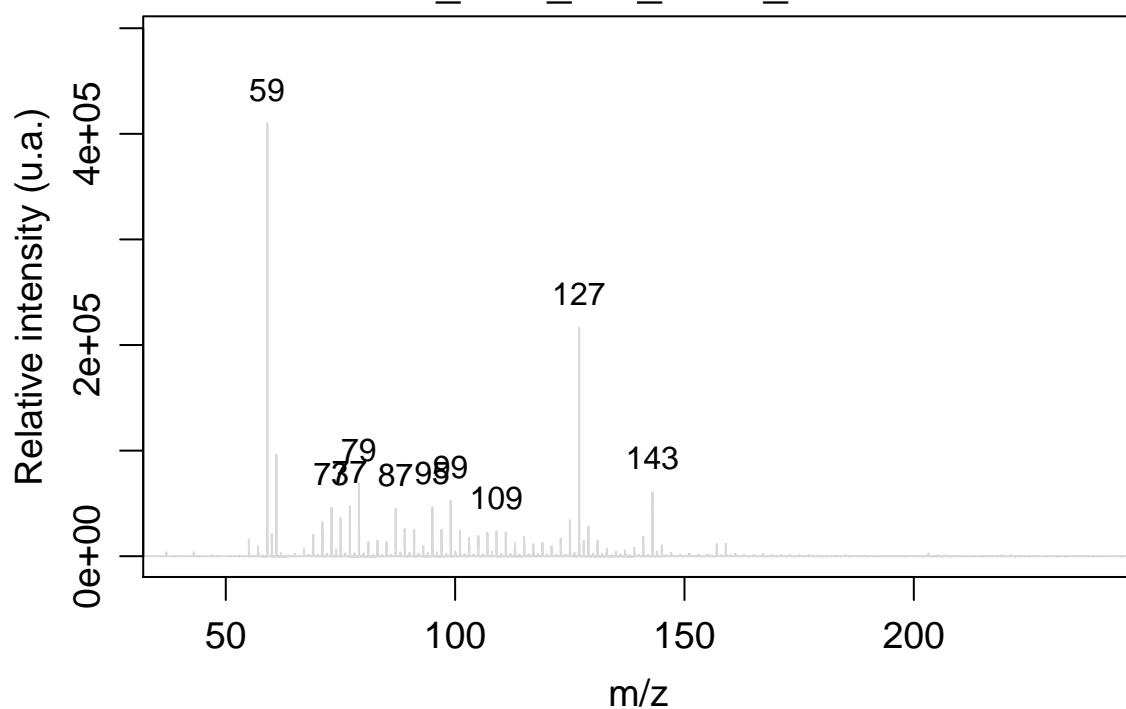
**s2\_Ch4\_bl2\_c071\_n283**



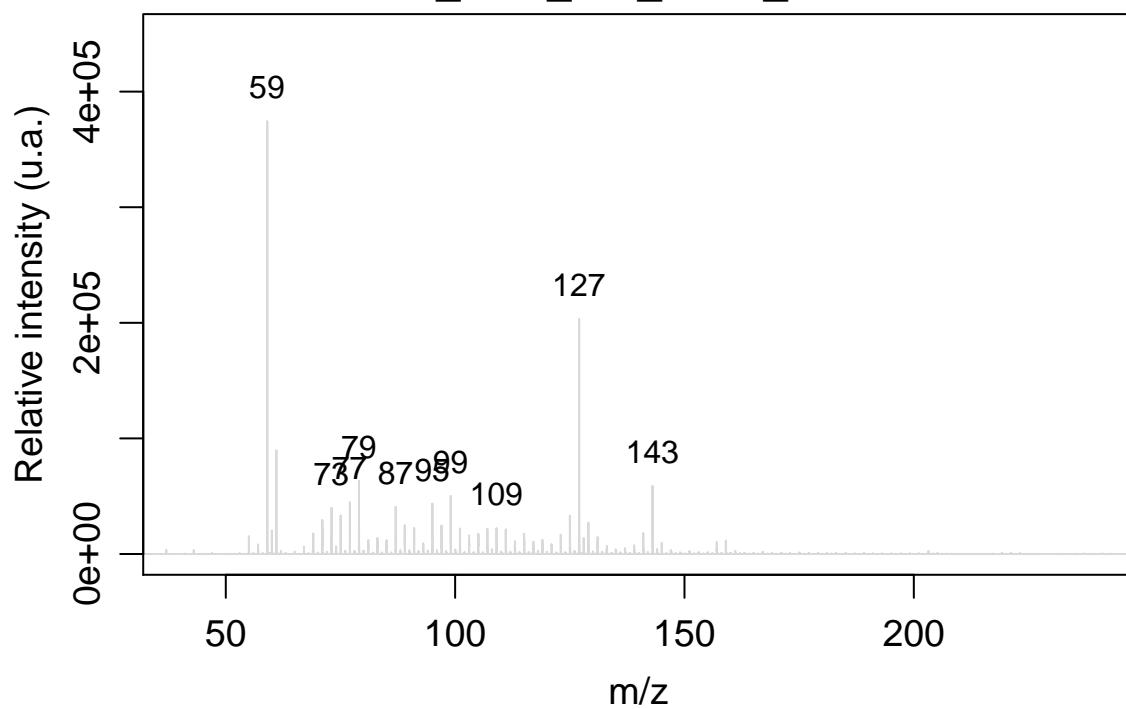
**s2\_Ch4\_bl2\_c073\_n291**



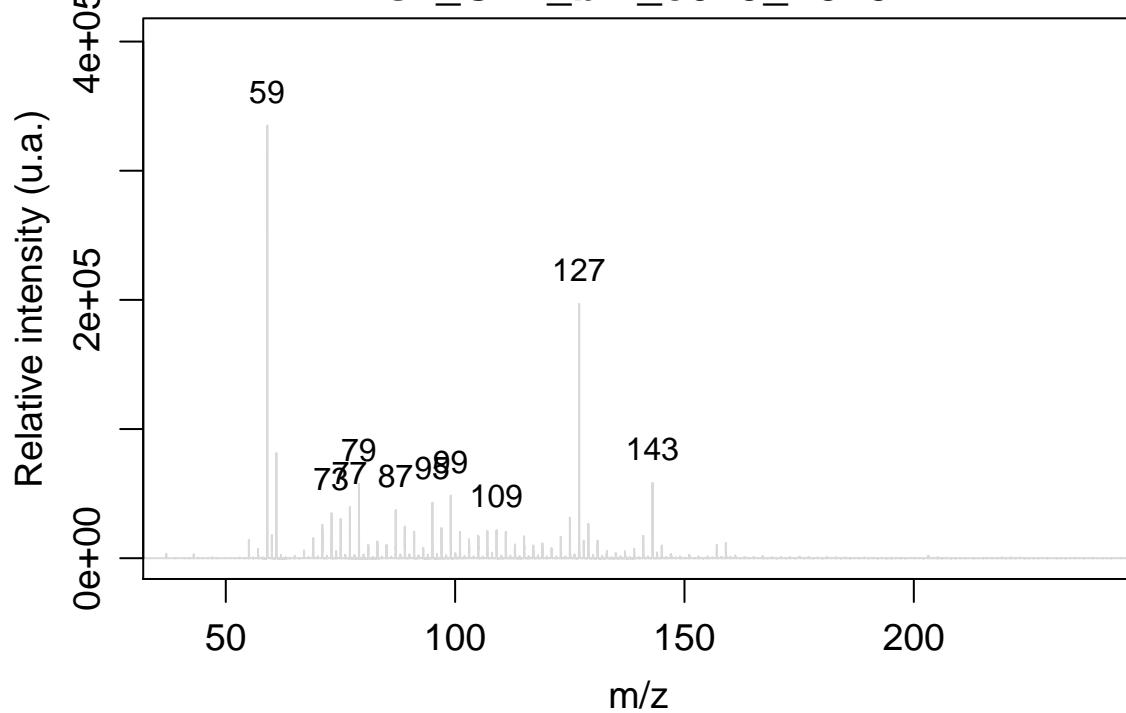
**s2\_Ch4\_bl2\_c075\_n299**



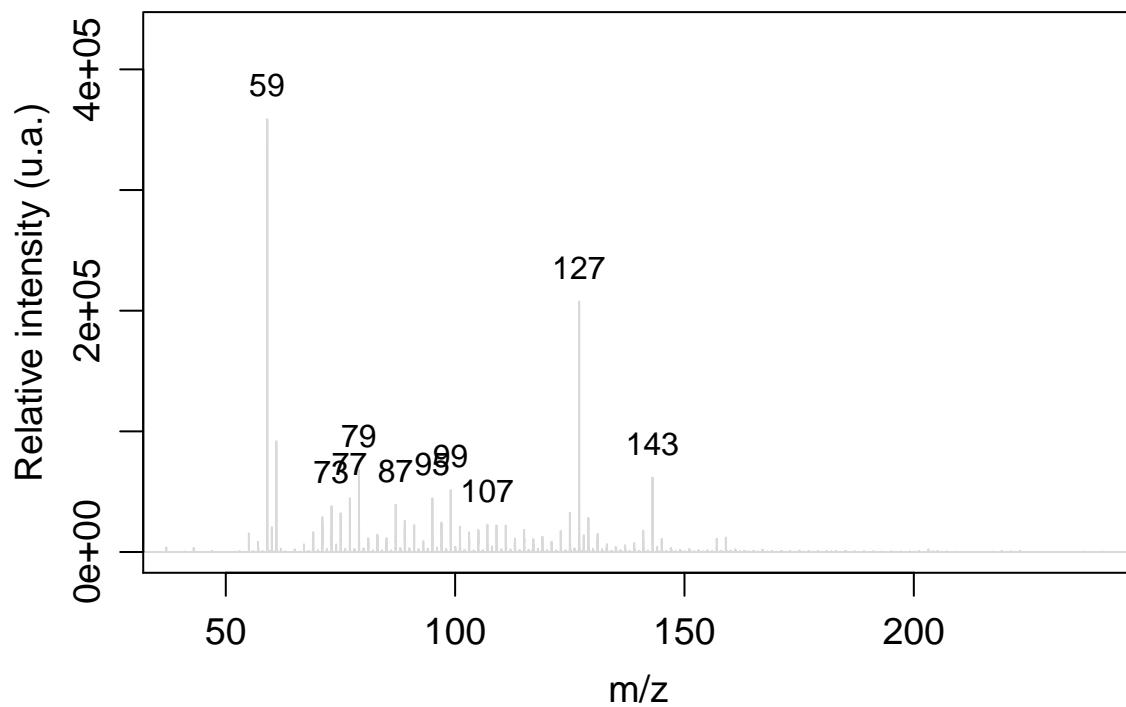
**s2\_Ch4\_bl2\_c077\_n307**



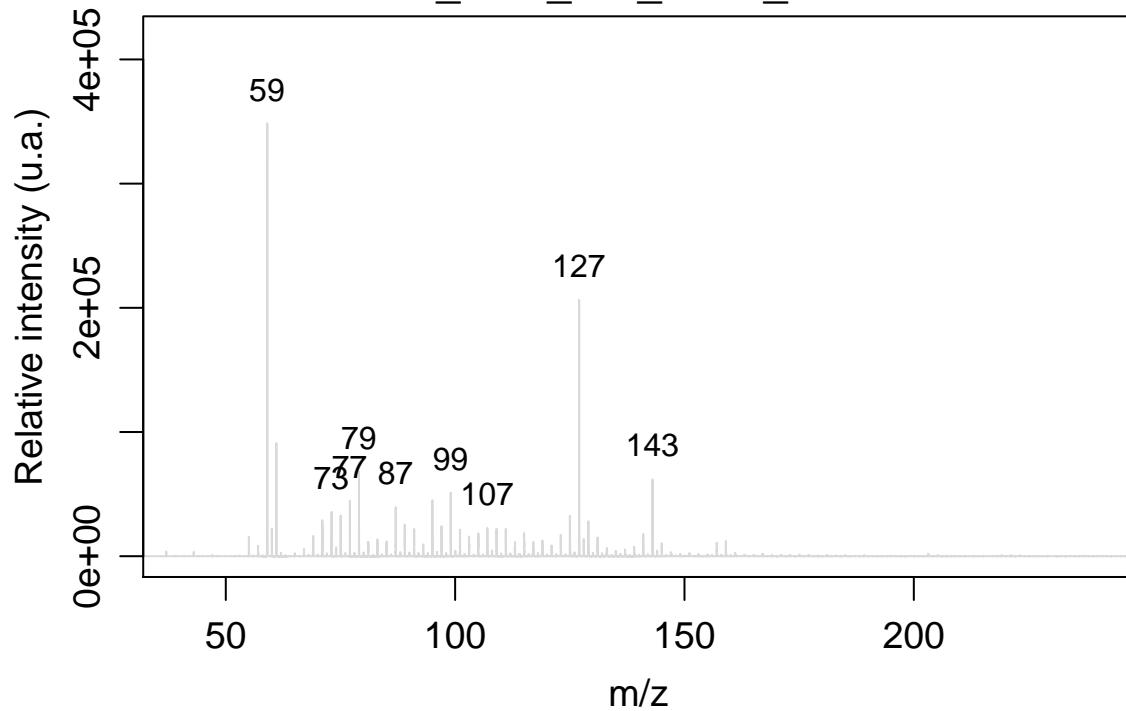
**s2\_Ch4\_bl2\_c079\_n315**



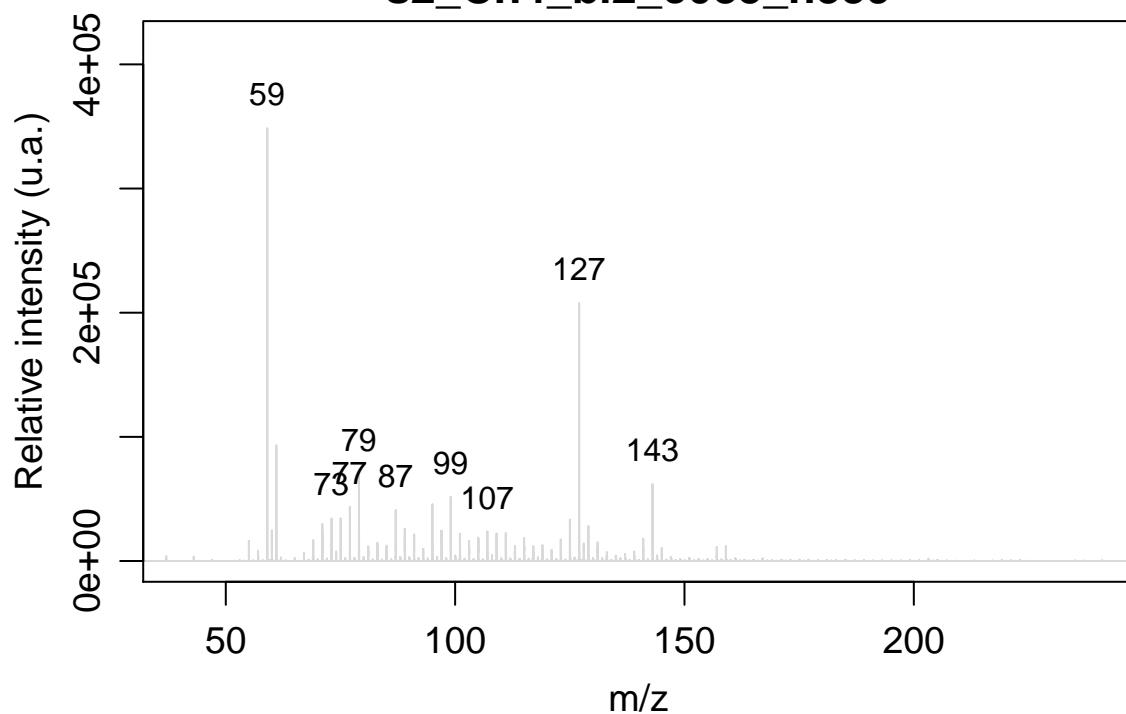
**s2\_Ch4\_bl2\_c081\_n323**



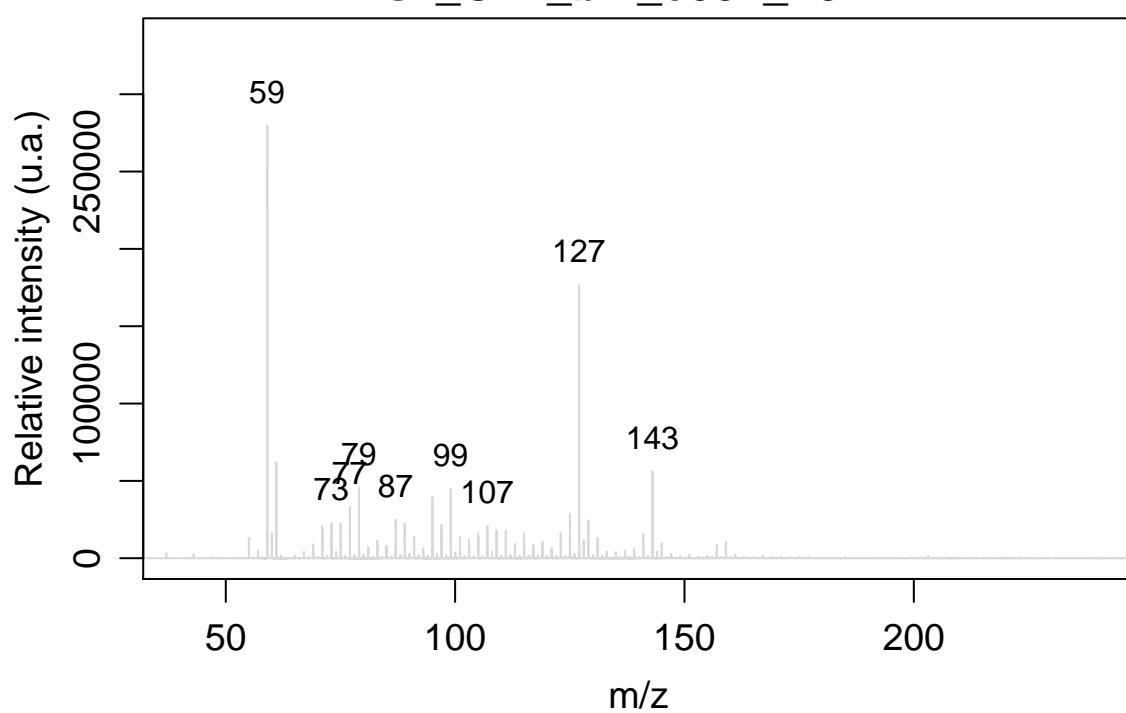
**s2\_Ch4\_bl2\_c083\_n331**



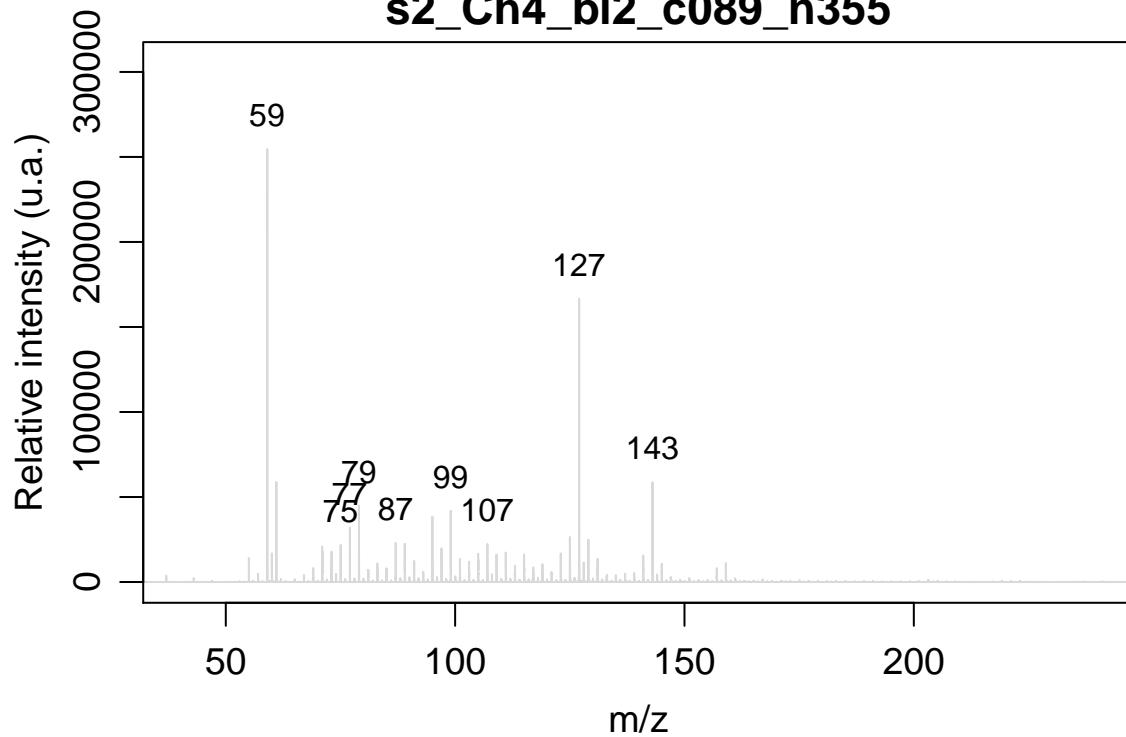
**s2\_Ch4\_bl2\_c085\_n339**



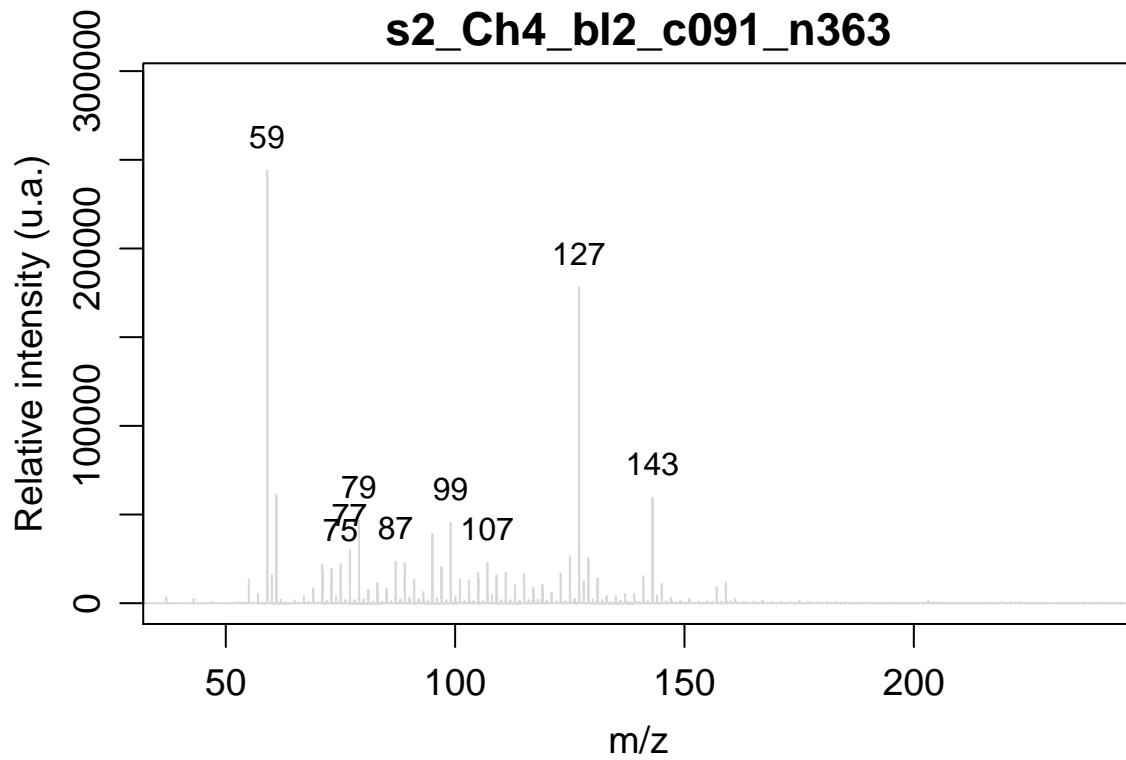
**s2\_Ch4\_bl2\_c087\_n347**



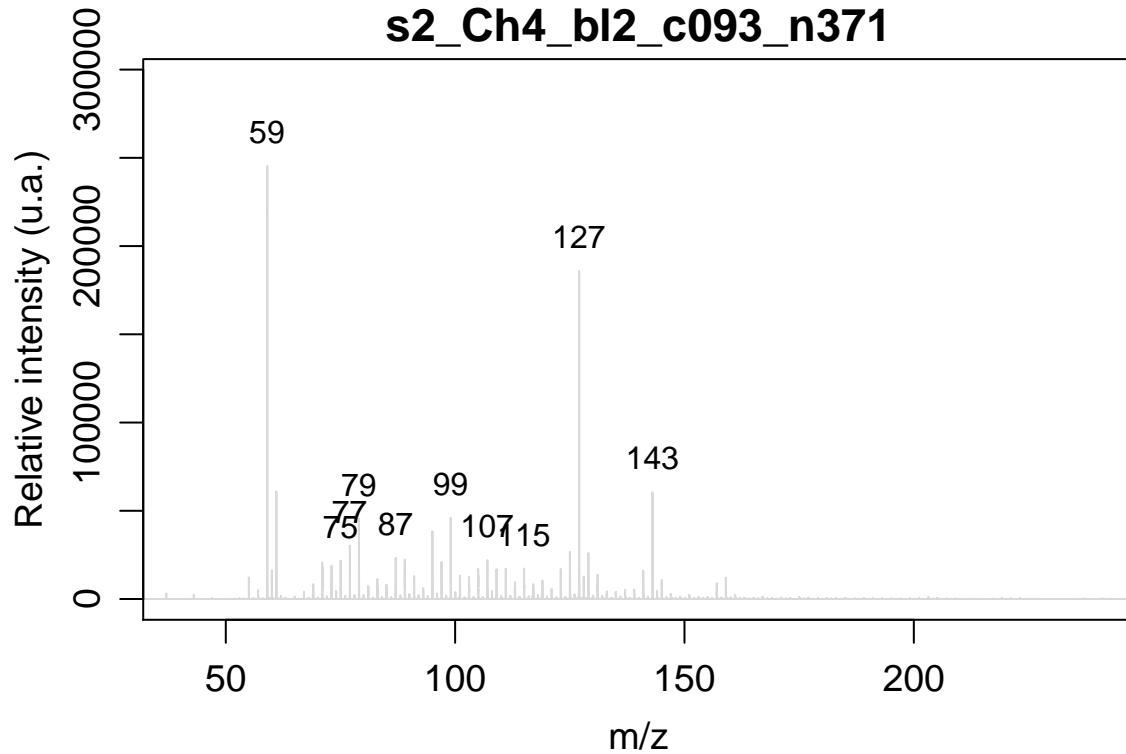
**s2\_Ch4\_bl2\_c089\_n355**



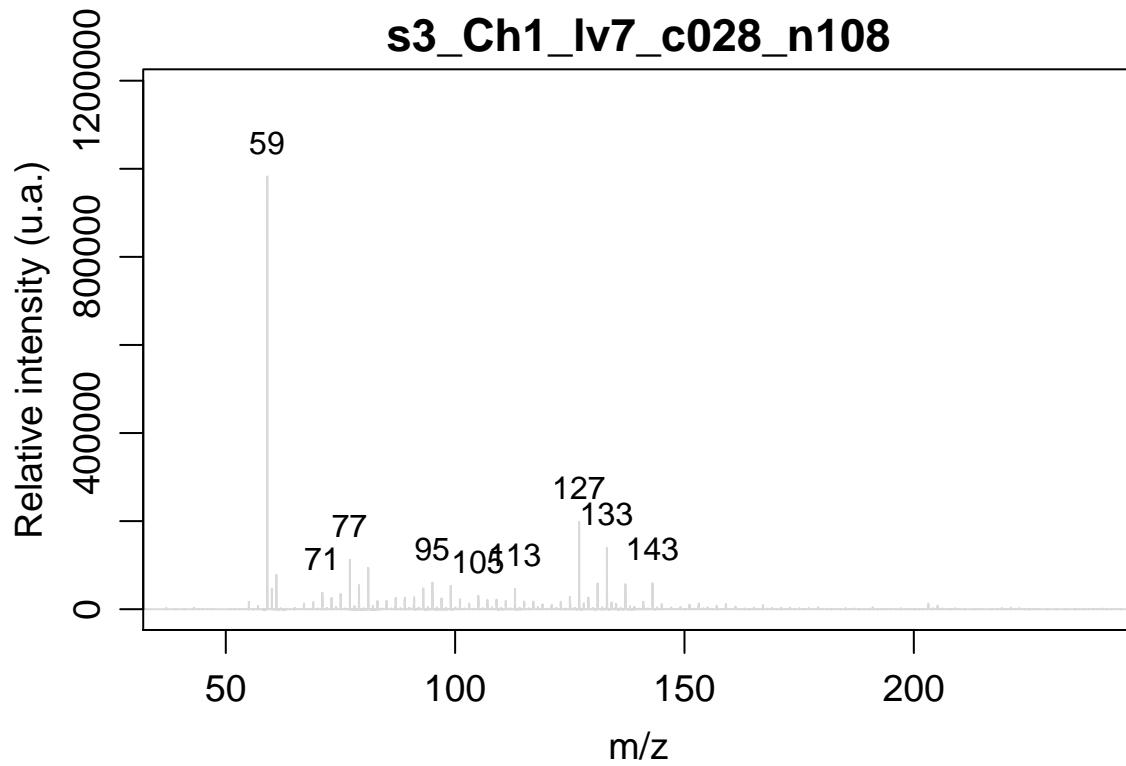
**s2\_Ch4\_bl2\_c091\_n363**



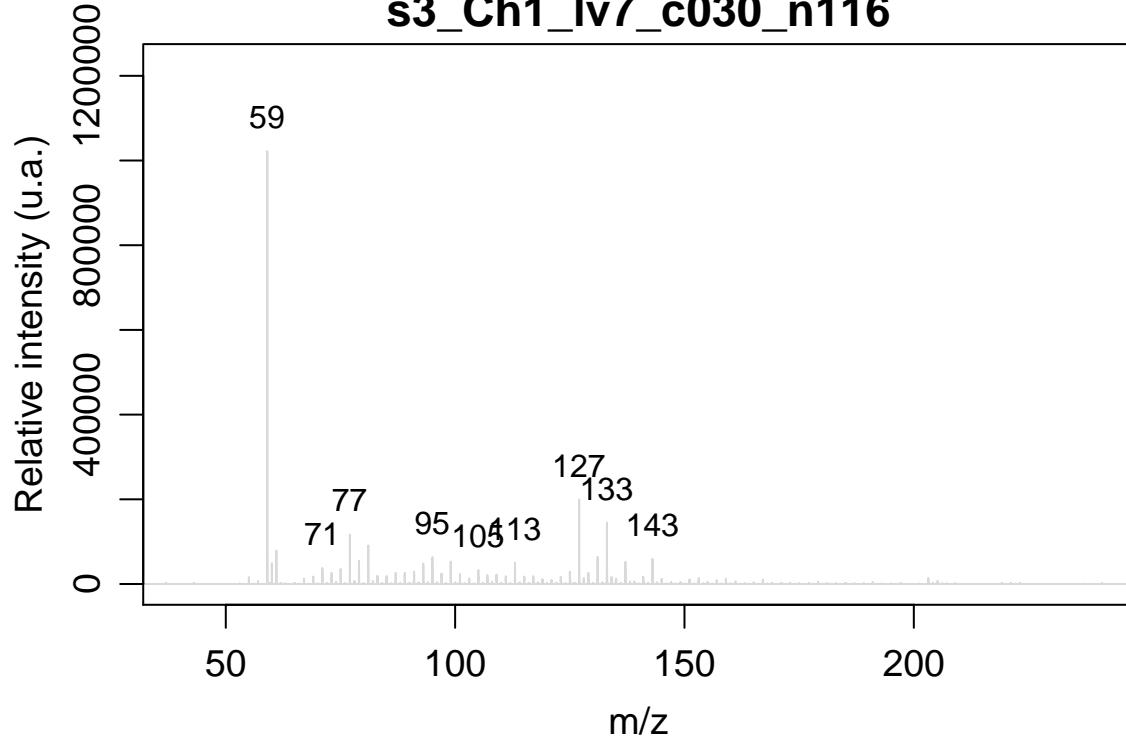
**s2\_Ch4\_bl2\_c093\_n371**



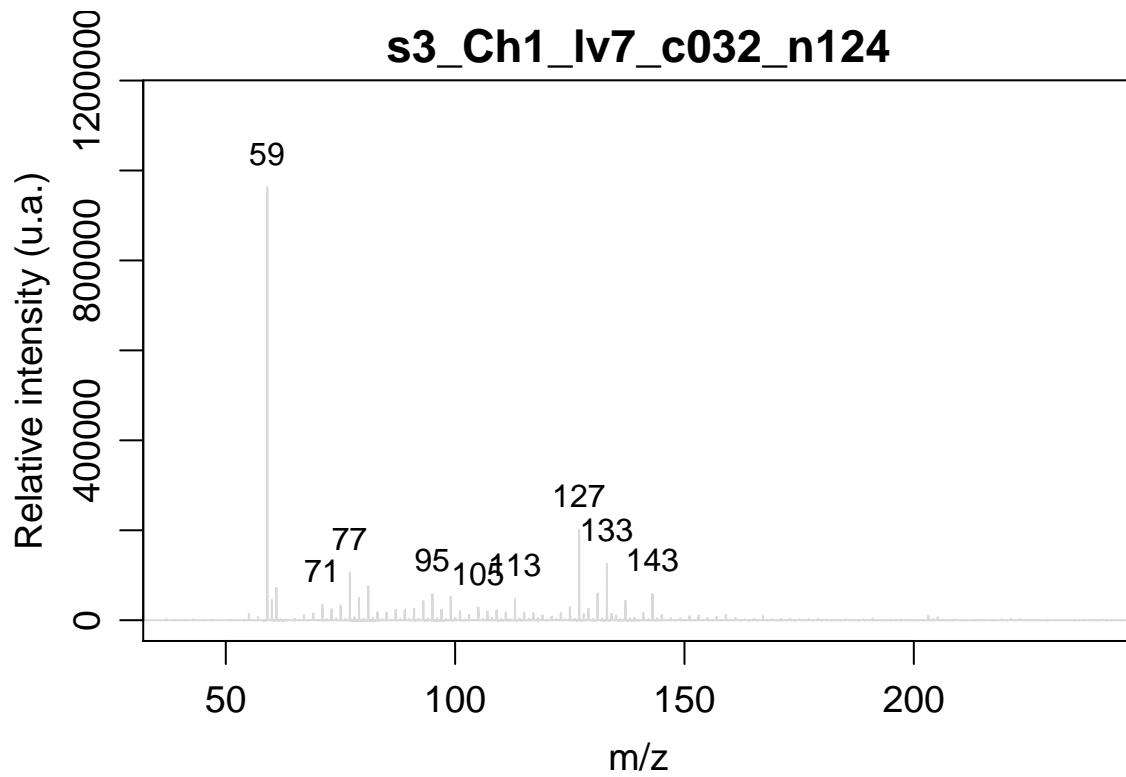
**s3\_Ch1\_lv7\_c028\_n108**



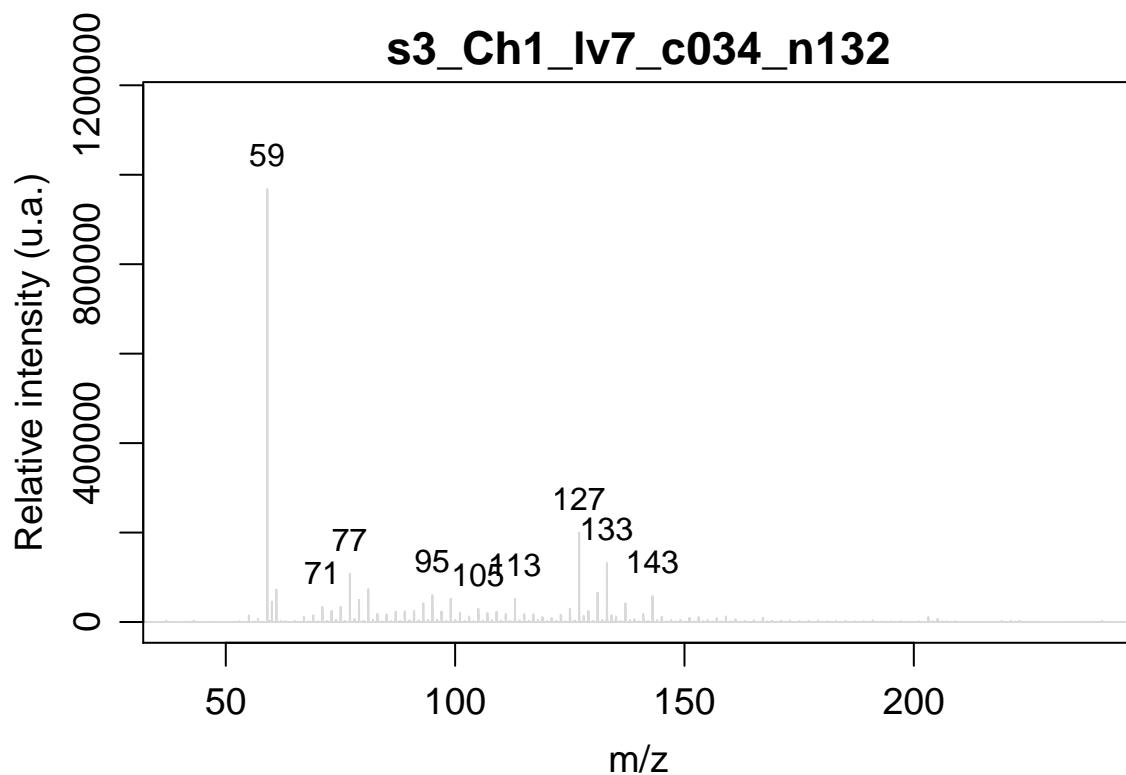
**s3\_Ch1\_!v7\_c030\_n116**



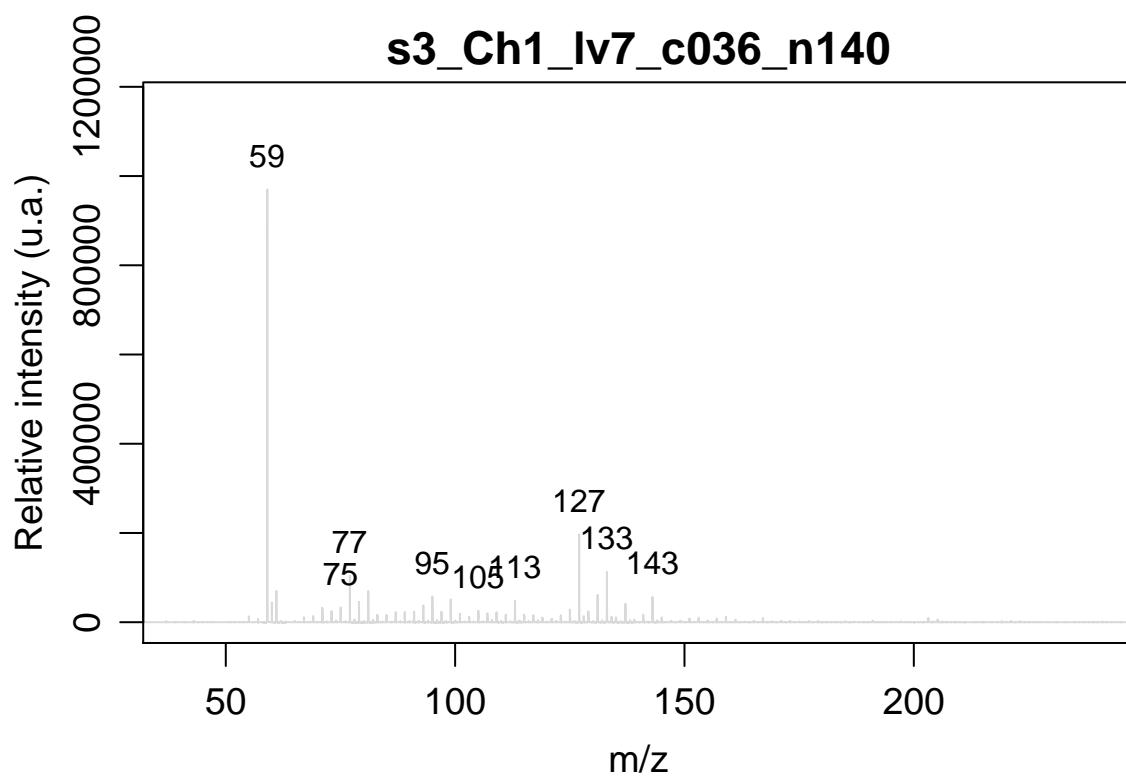
**s3\_Ch1\_!v7\_c032\_n124**



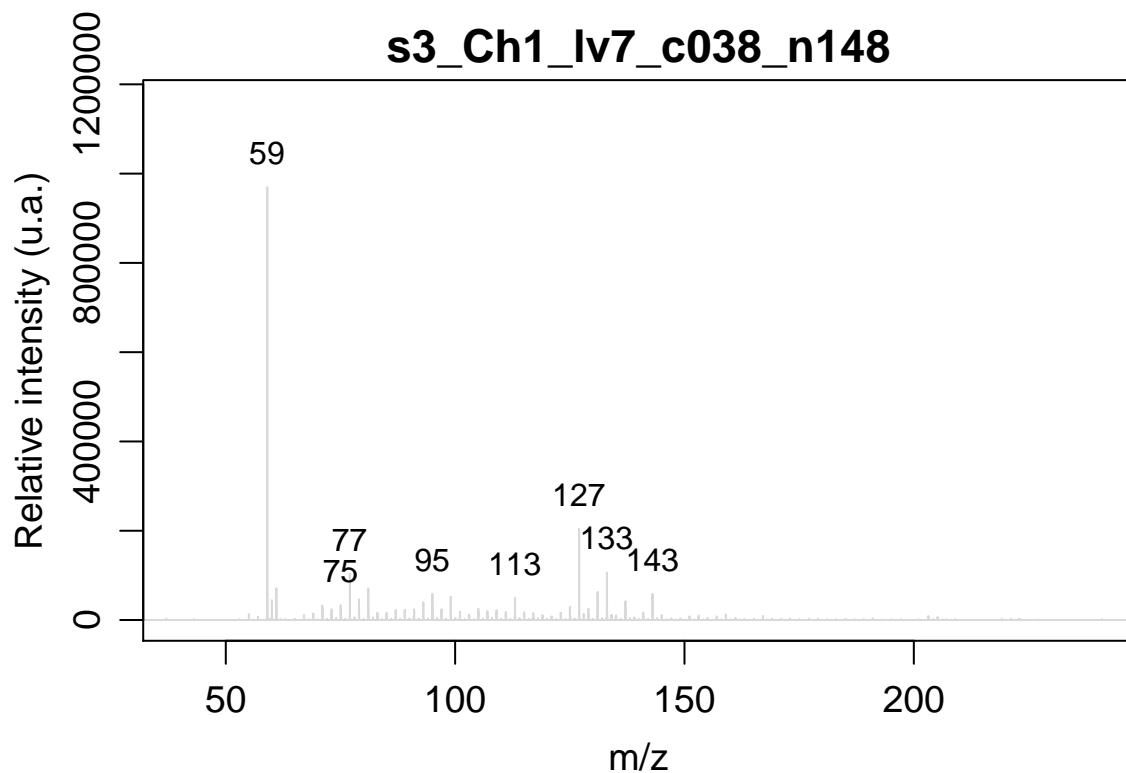
**s3\_Ch1\_!v7\_c034\_n132**



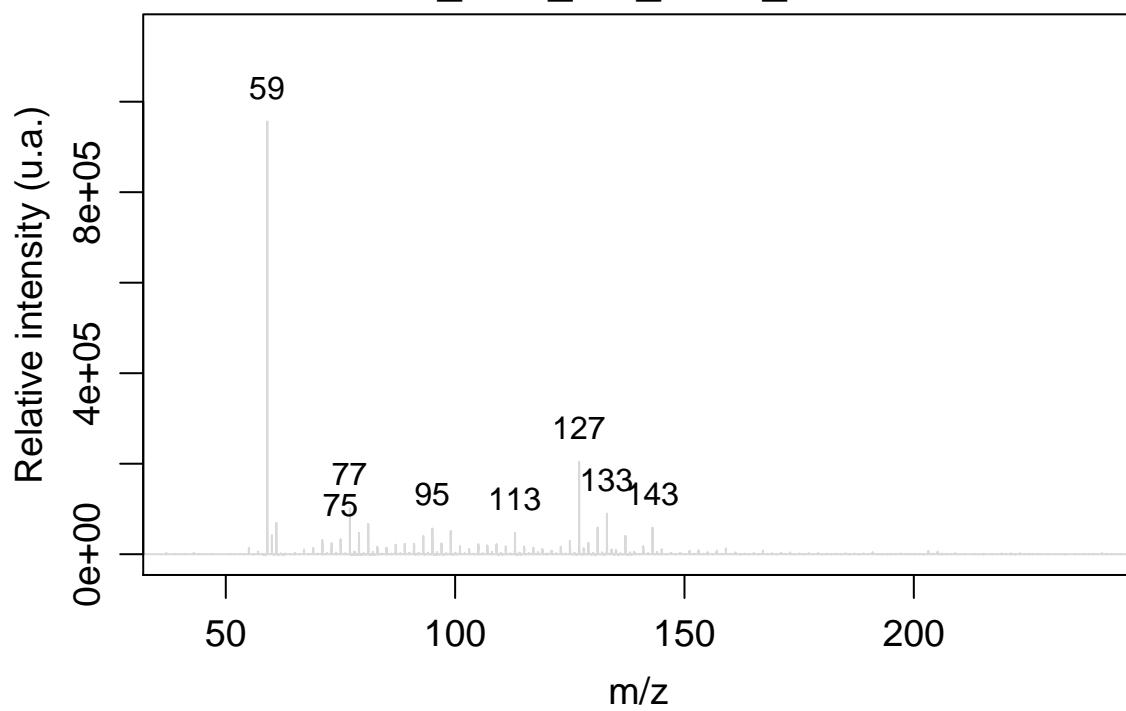
**s3\_Ch1\_!v7\_c036\_n140**



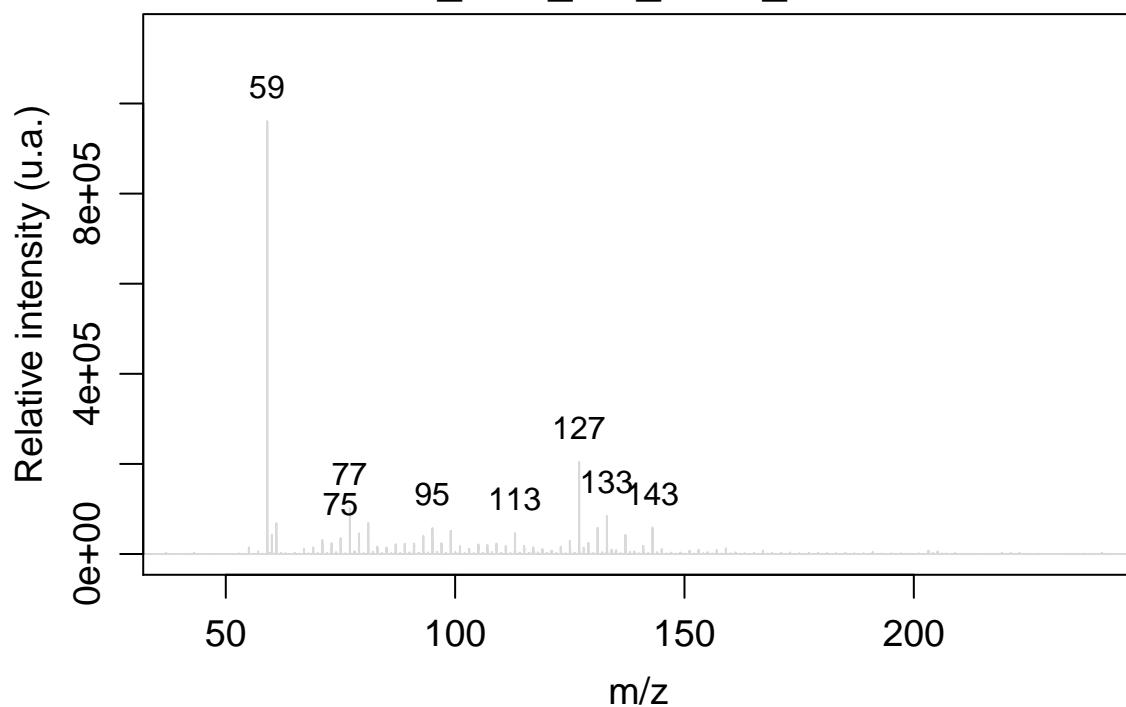
**s3\_Ch1\_!v7\_c038\_n148**



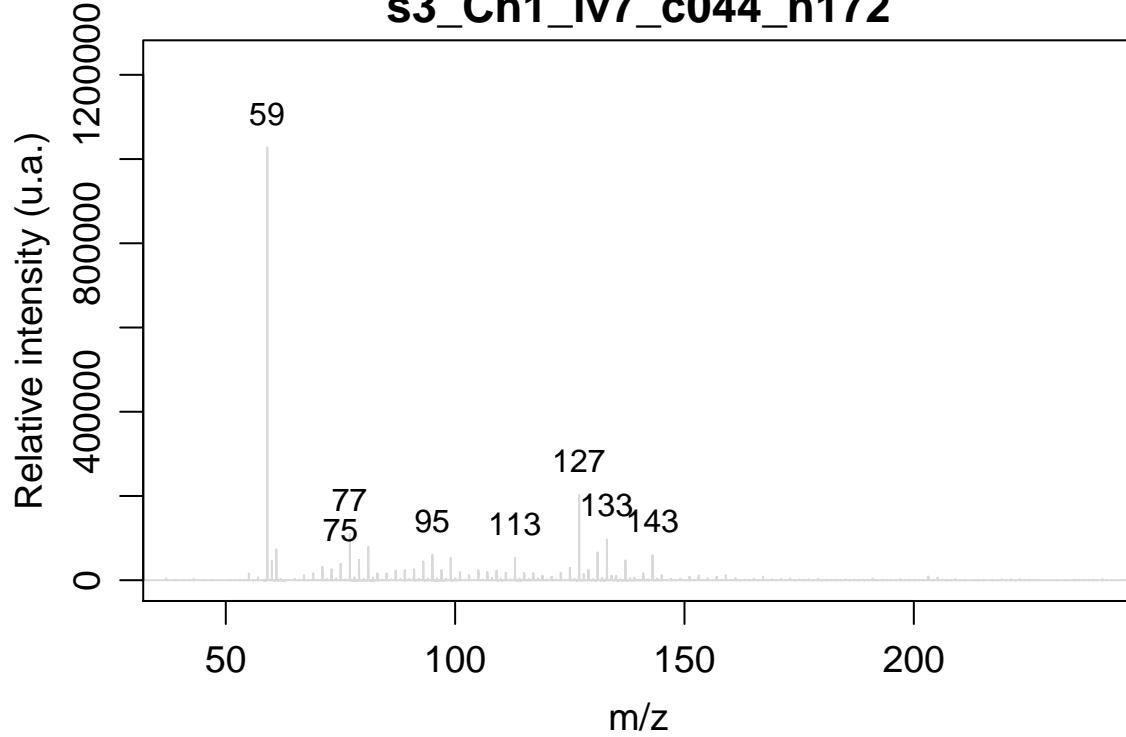
**s3\_Ch1\_!v7\_c040\_n156**



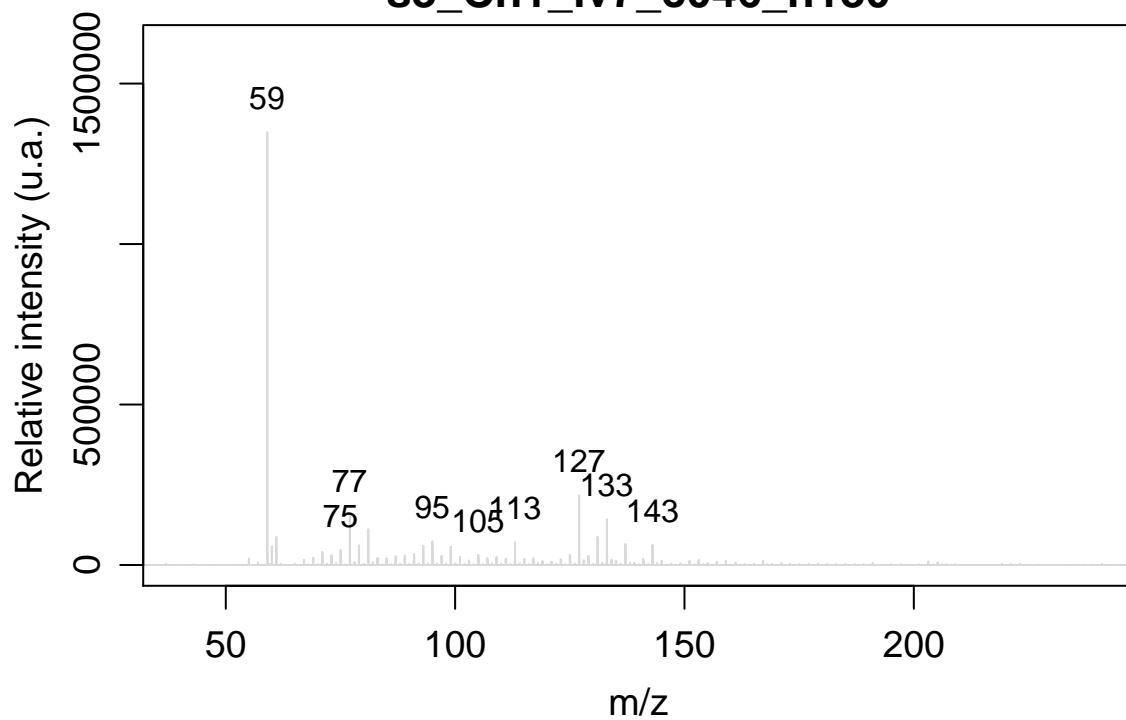
**s3\_Ch1\_!v7\_c042\_n164**



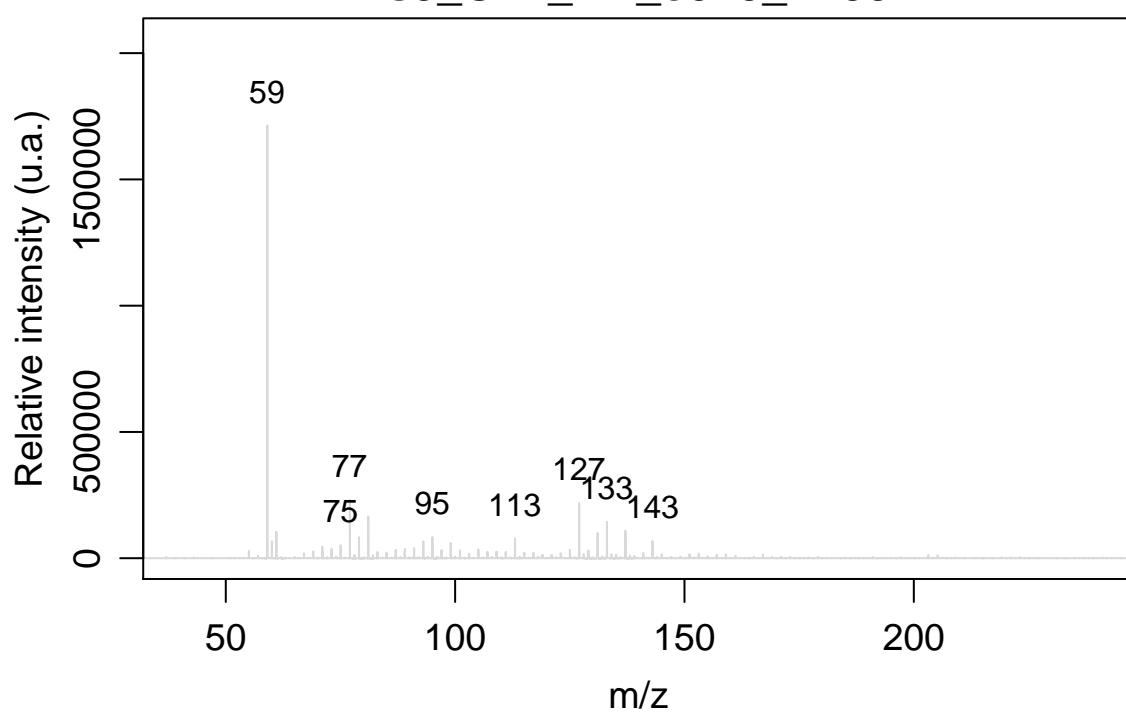
**s3\_Ch1\_!v7\_c044\_n172**



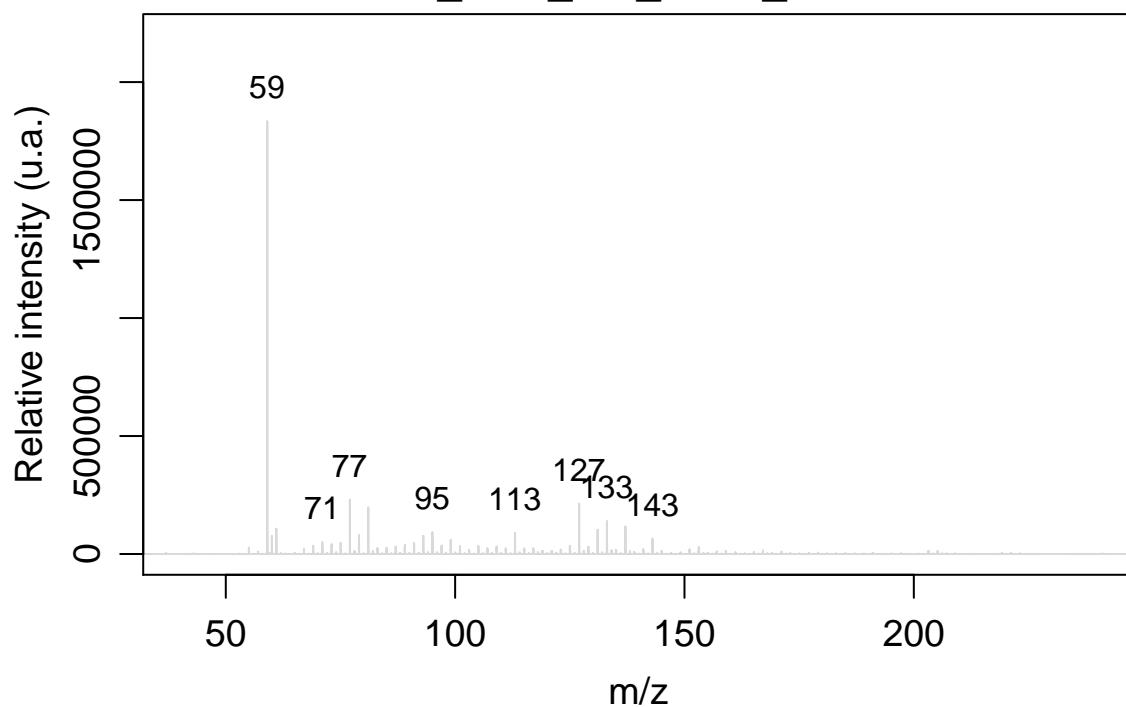
**s3\_Ch1\_!v7\_c046\_n180**



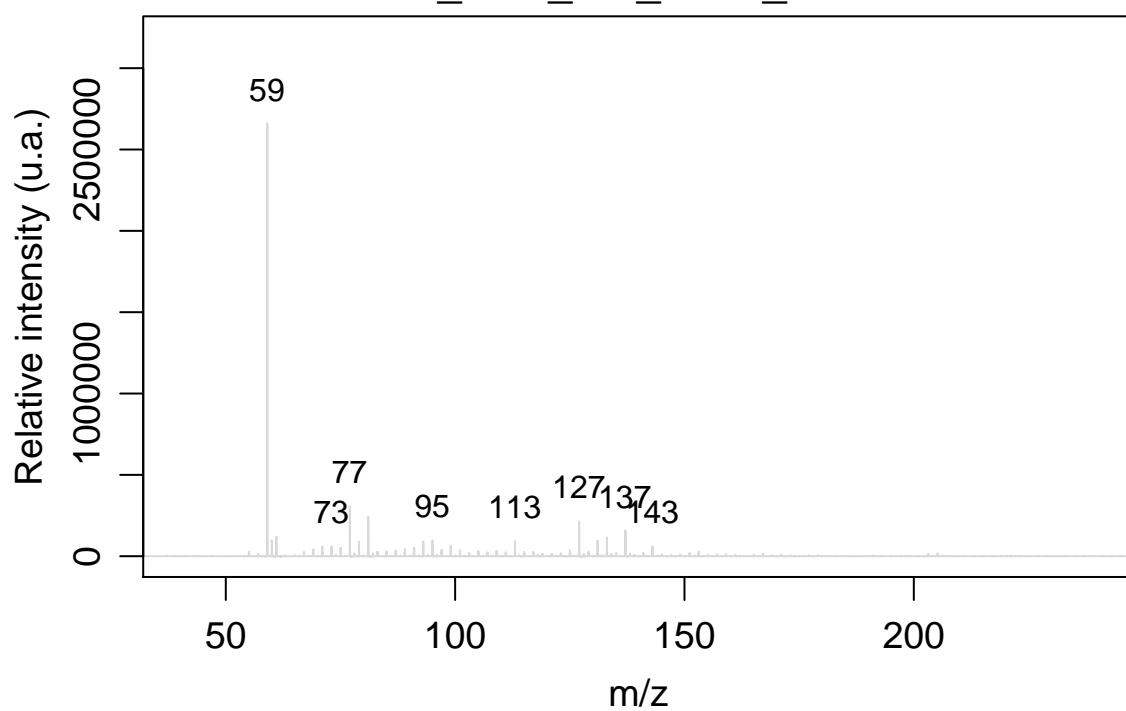
**s3\_Ch1\_!v7\_c048\_n188**



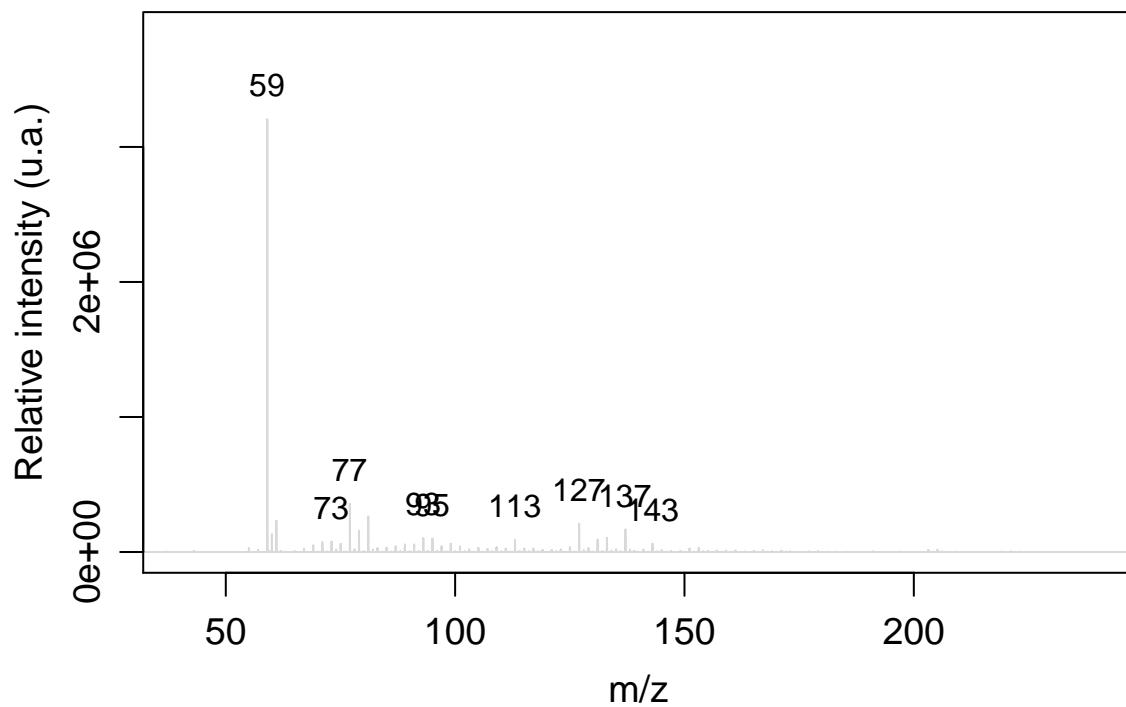
**s3\_Ch1\_!v7\_c050\_n196**



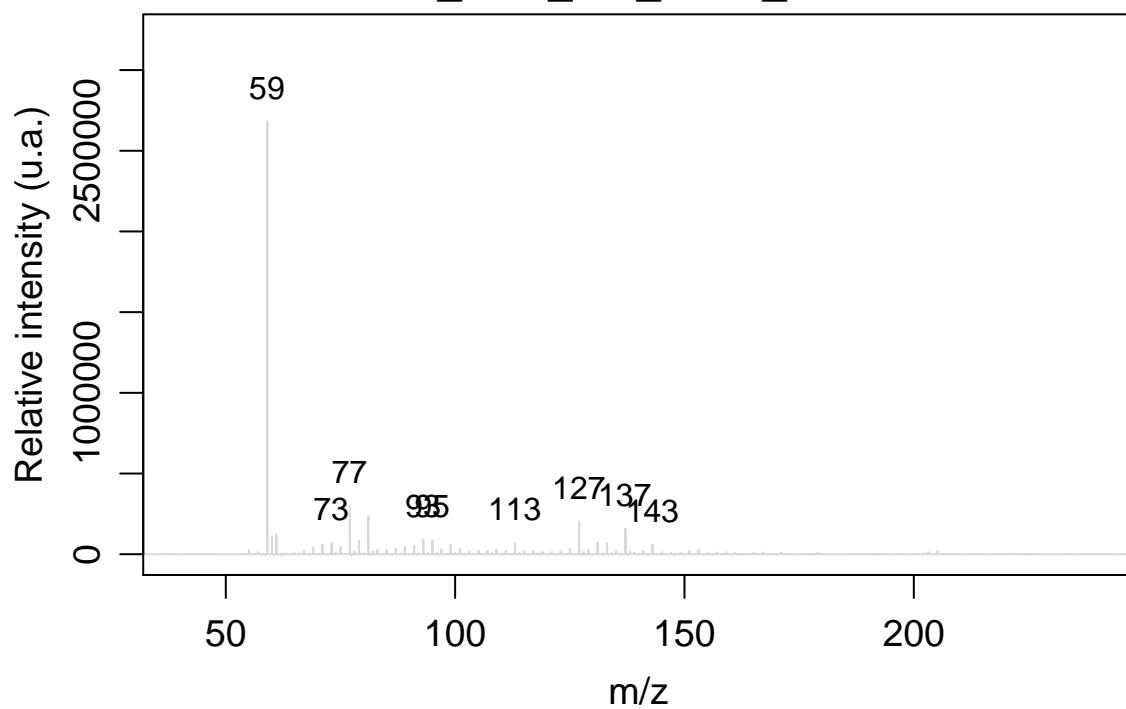
**s3\_Ch1\_!v7\_c052\_n204**



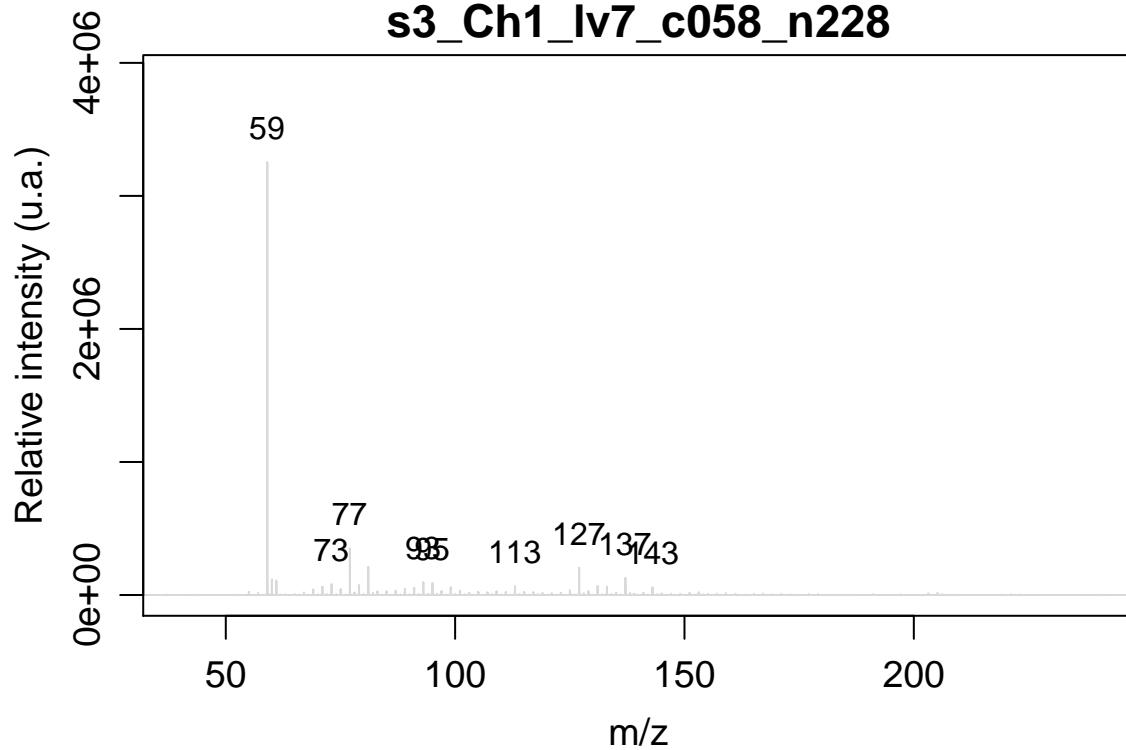
**s3\_Ch1\_!v7\_c054\_n212**



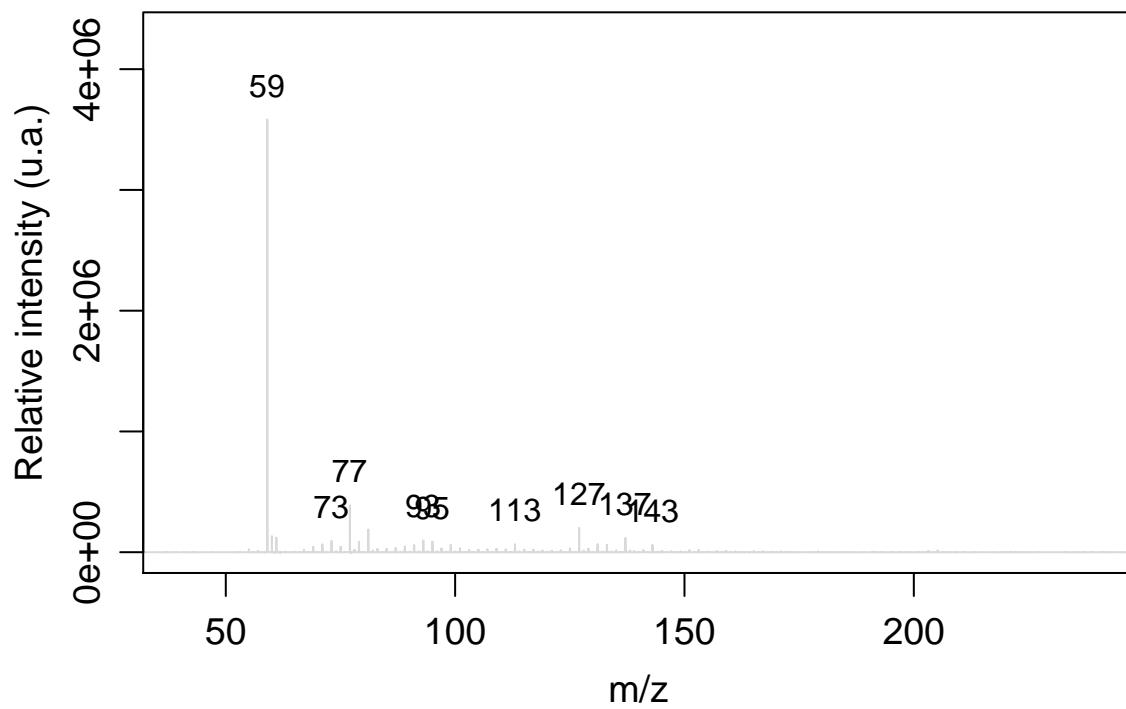
**s3\_Ch1\_!v7\_c056\_n220**



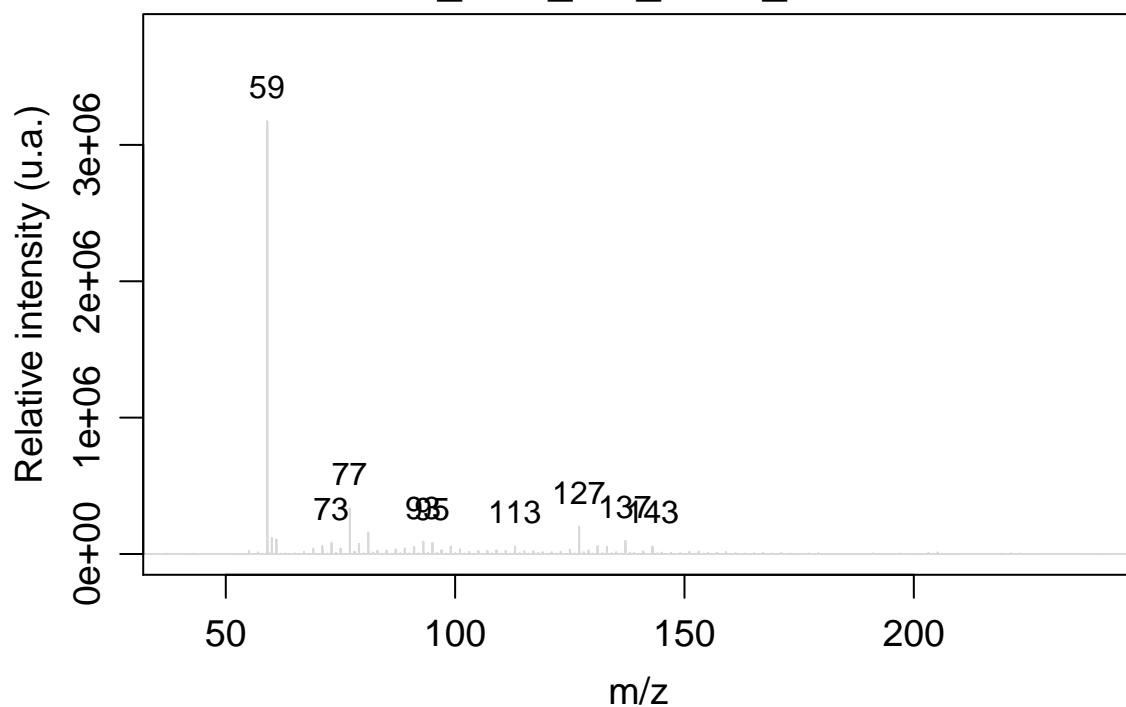
**s3\_Ch1\_!v7\_c058\_n228**



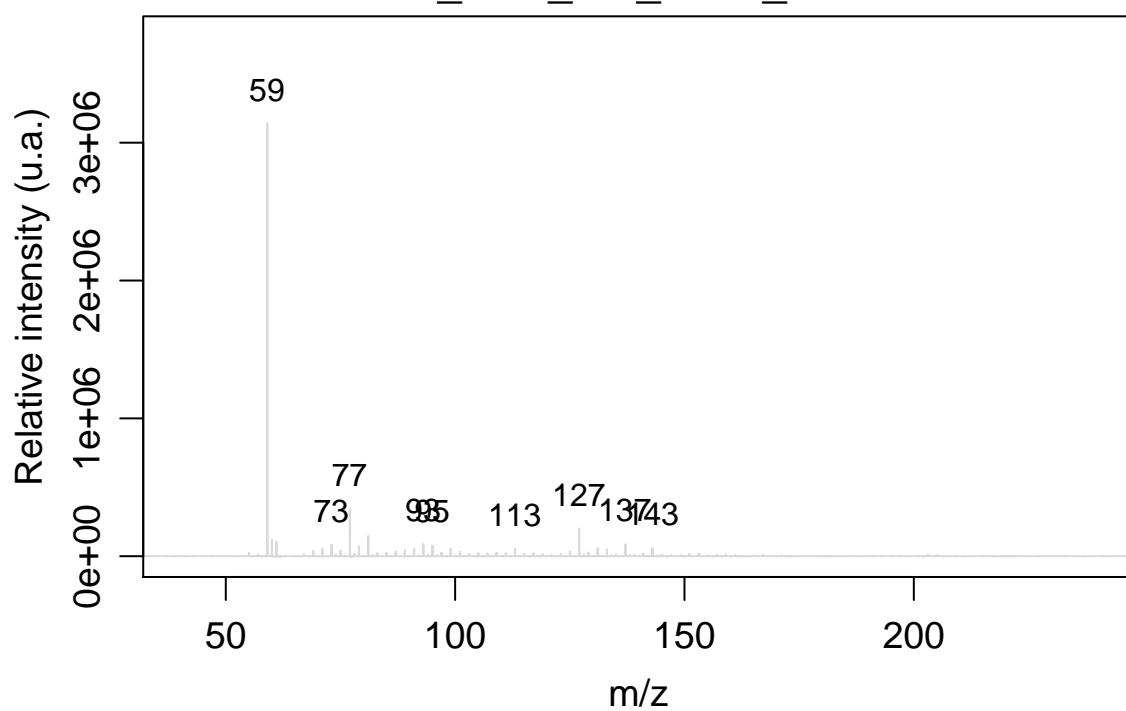
**s3\_Ch1\_!v7\_c060\_n236**



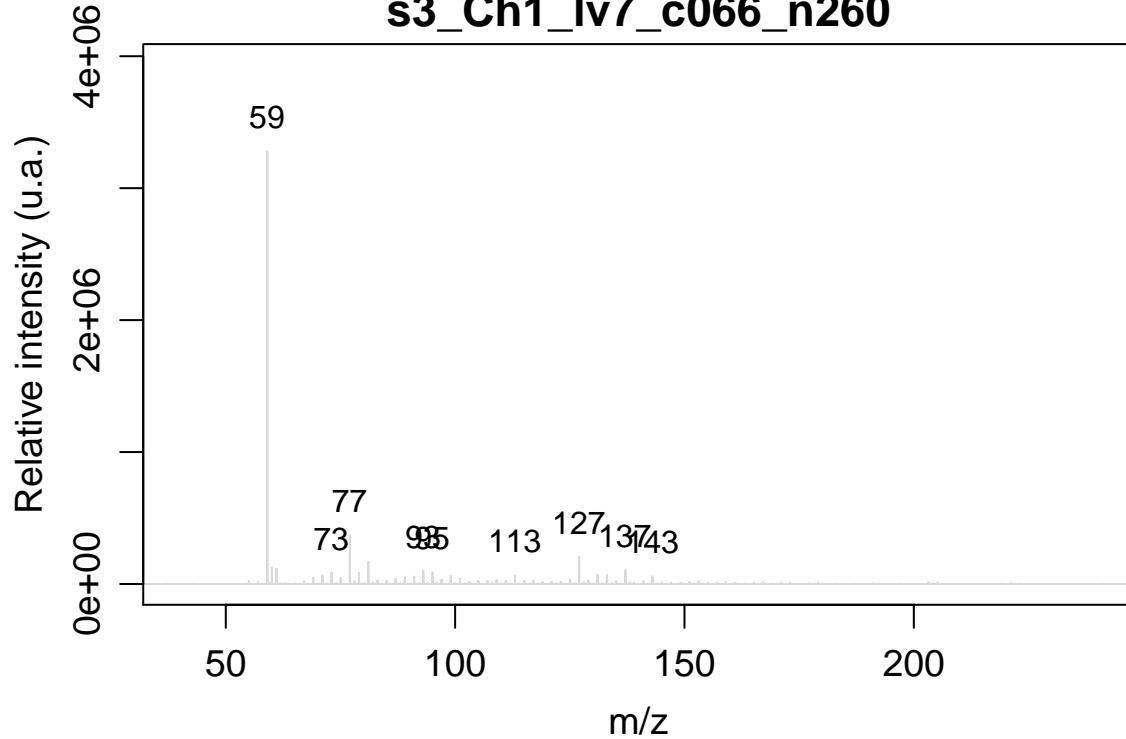
**s3\_Ch1\_!v7\_c062\_n244**



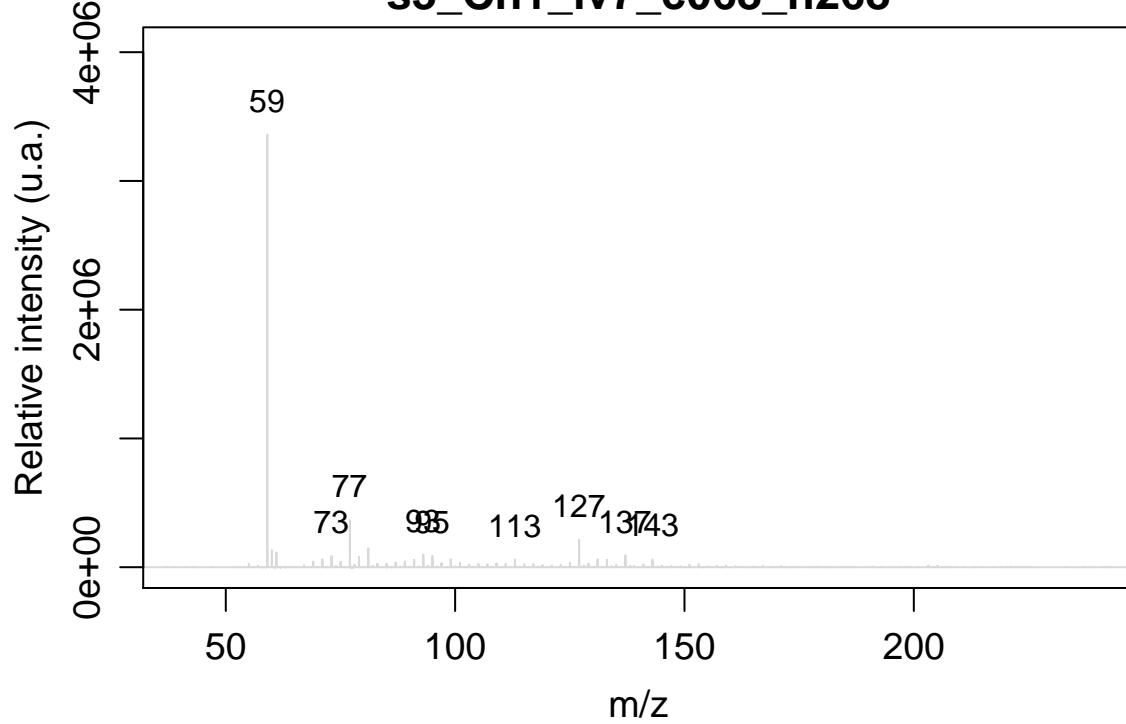
**s3\_Ch1\_!v7\_c064\_n252**



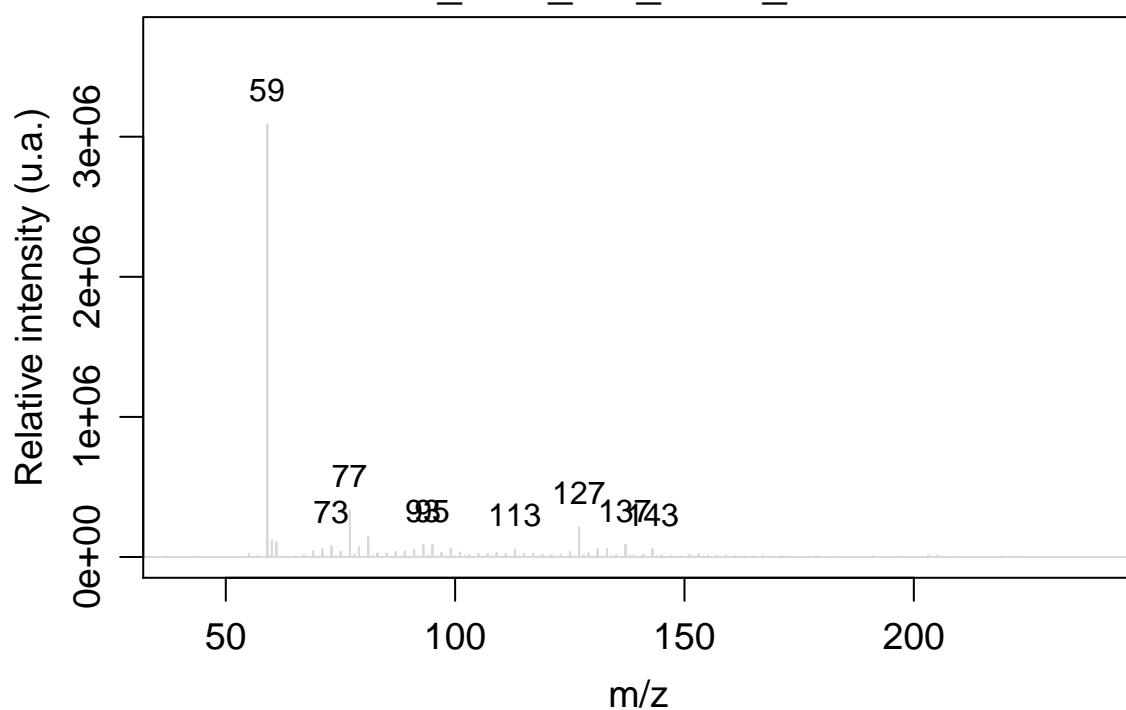
**s3\_Ch1\_!v7\_c066\_n260**



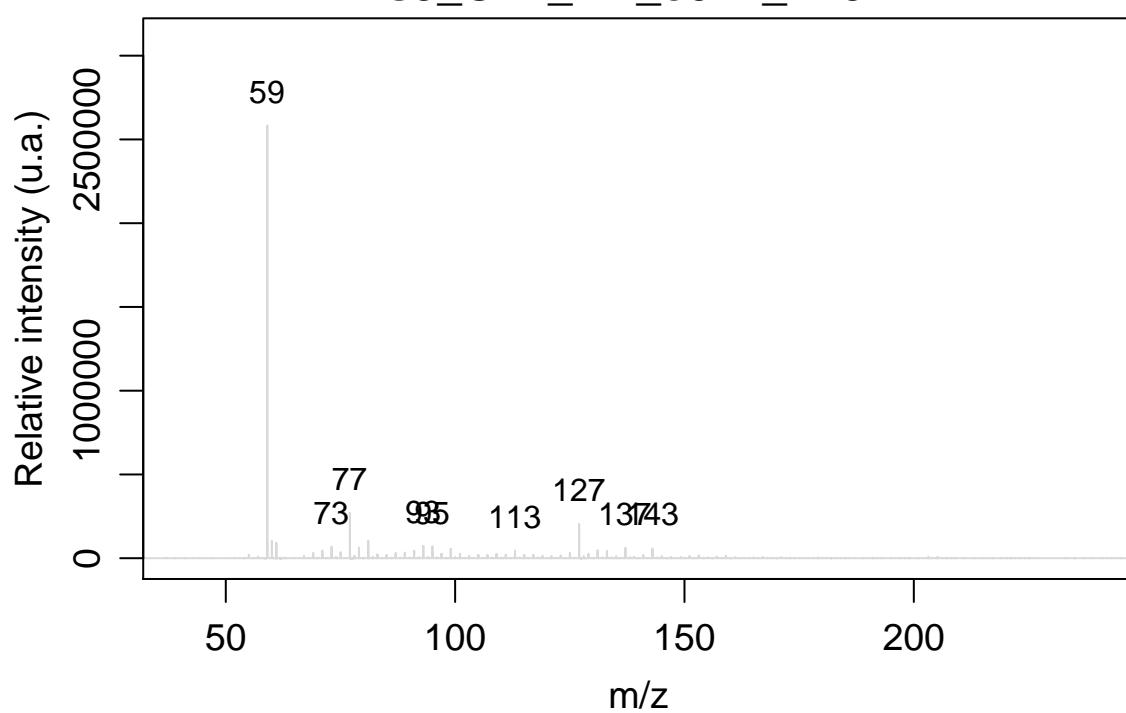
**s3\_Ch1\_!v7\_c068\_n268**



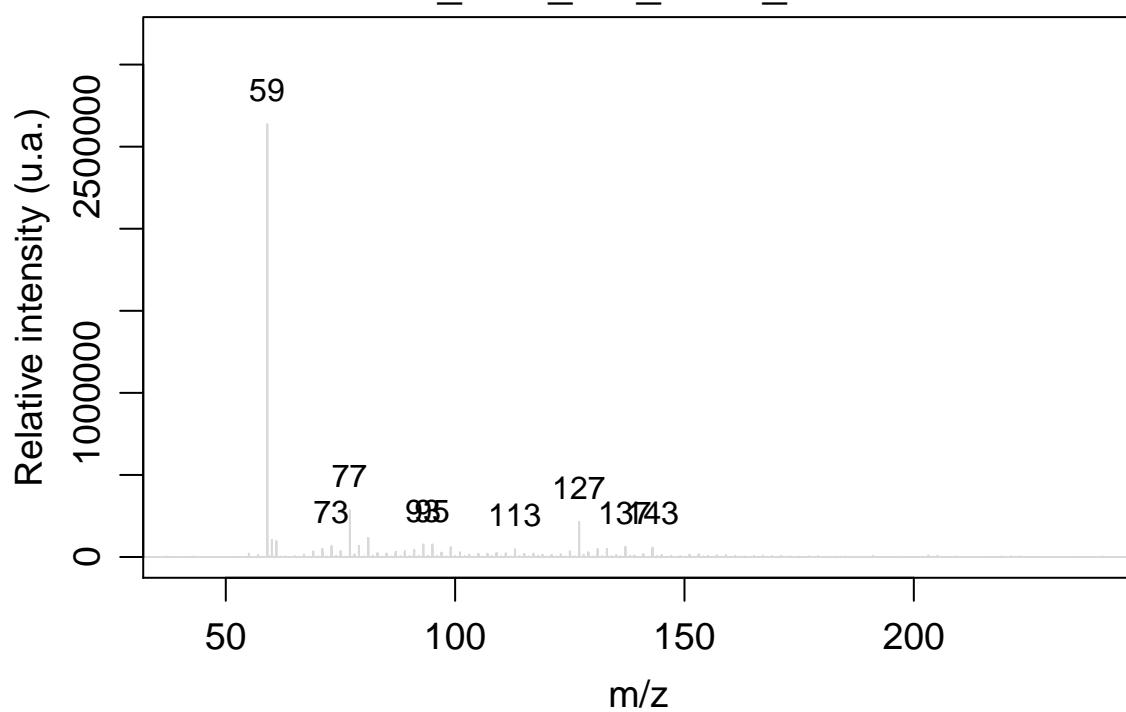
**s3\_Ch1\_!v7\_c070\_n276**



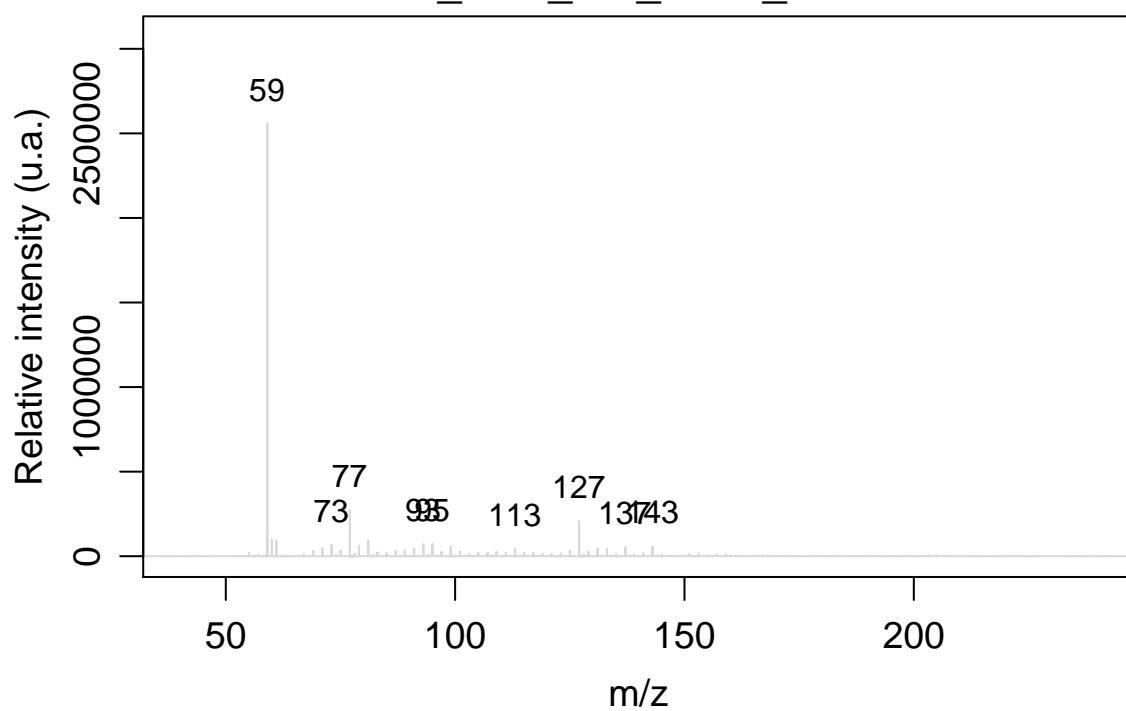
**s3\_Ch1\_!v7\_c072\_n284**



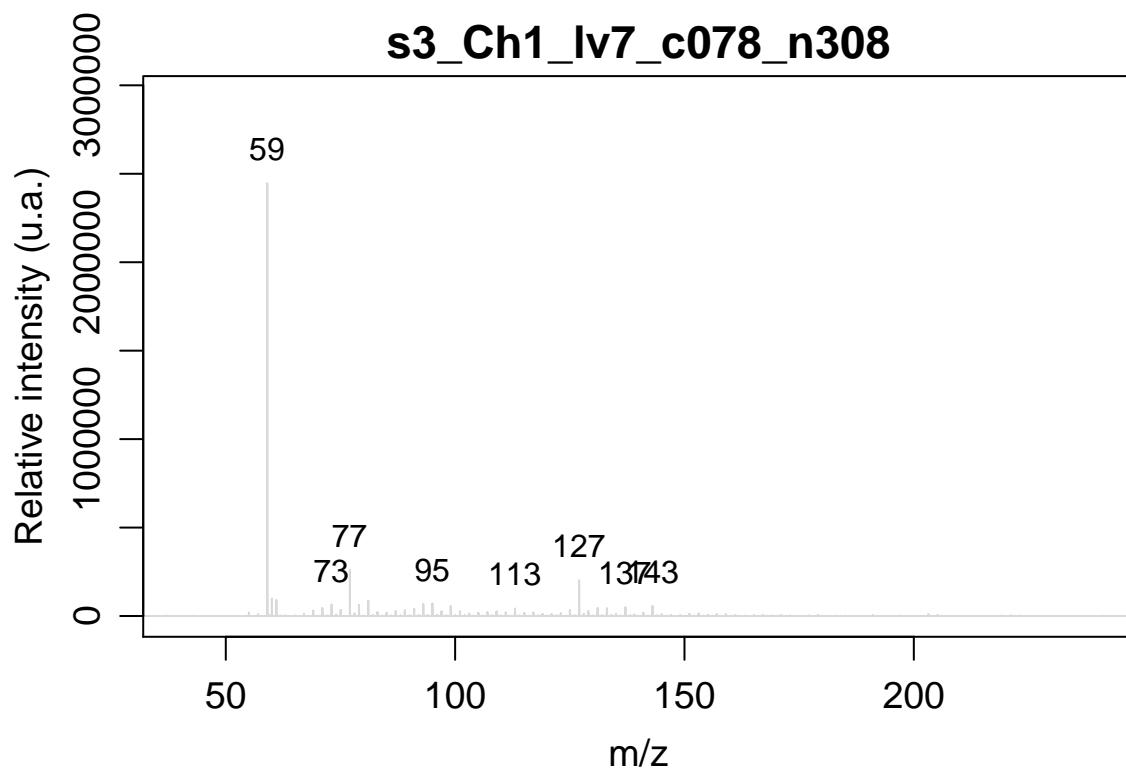
**s3\_Ch1\_!v7\_c074\_n292**



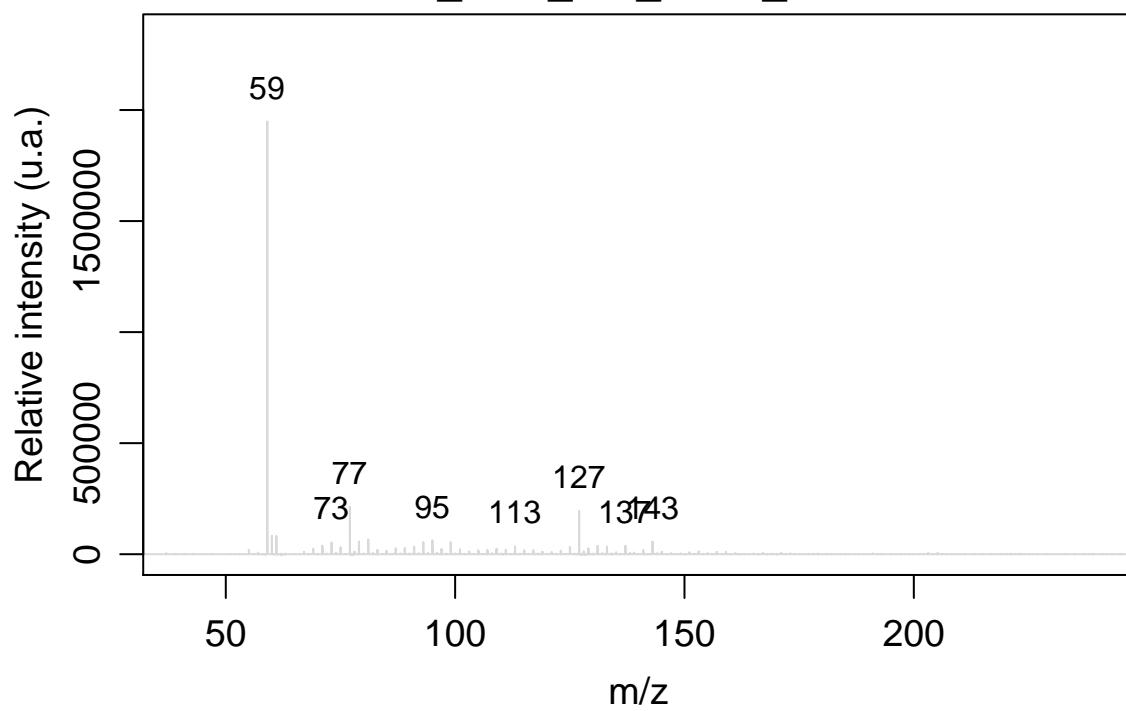
**s3\_Ch1\_!v7\_c076\_n300**



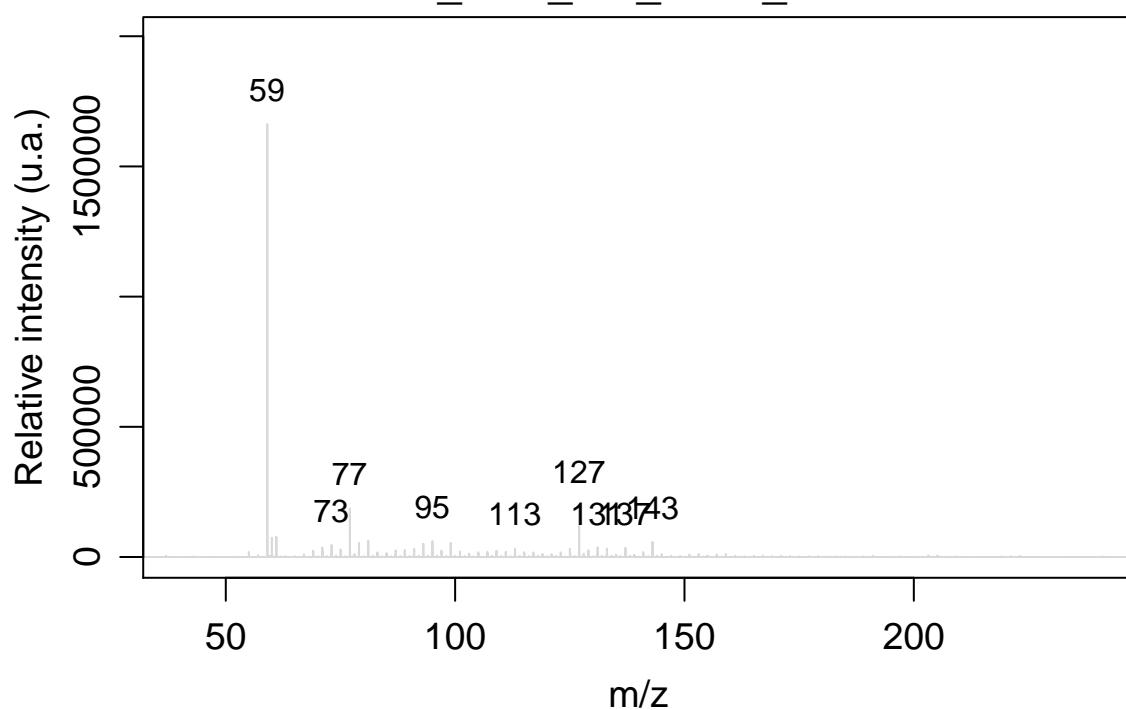
**s3\_Ch1\_!v7\_c078\_n308**



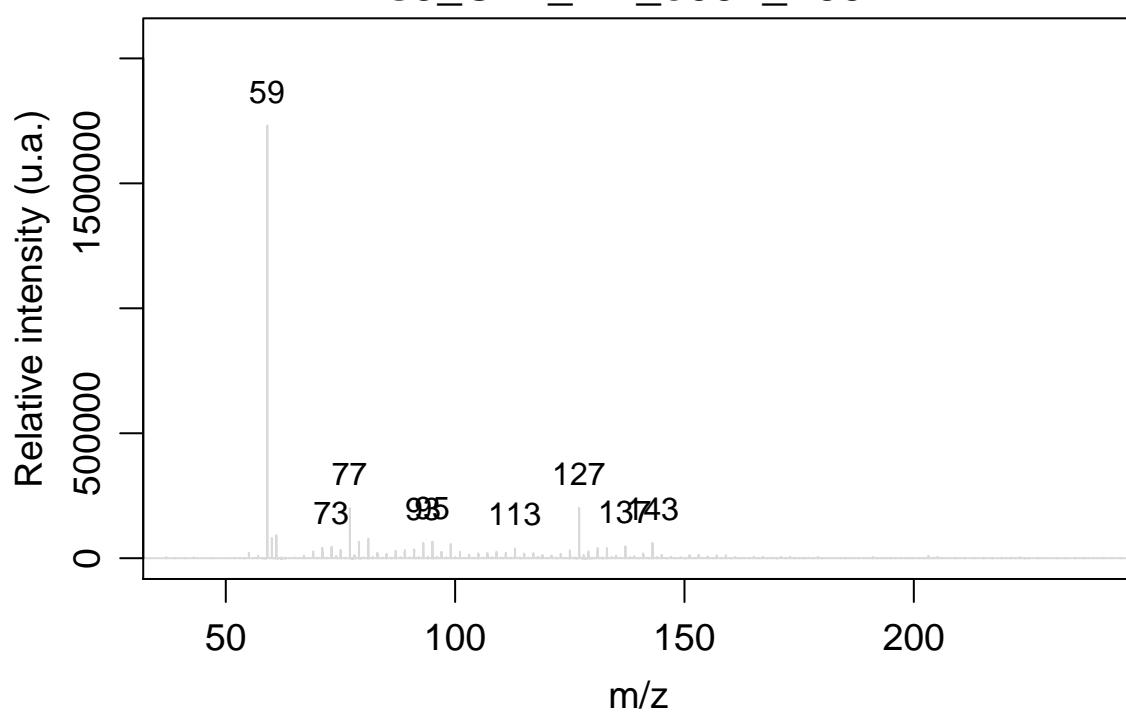
**s3\_Ch1\_!v7\_c080\_n316**



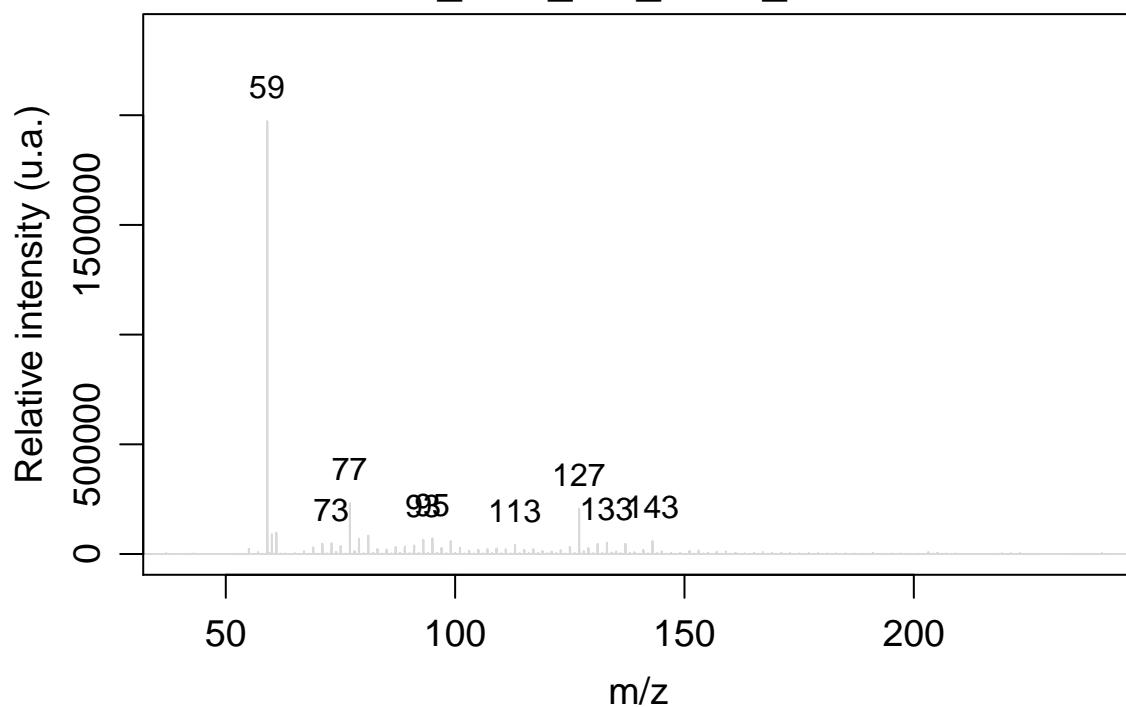
**s3\_Ch1\_!v7\_c082\_n324**



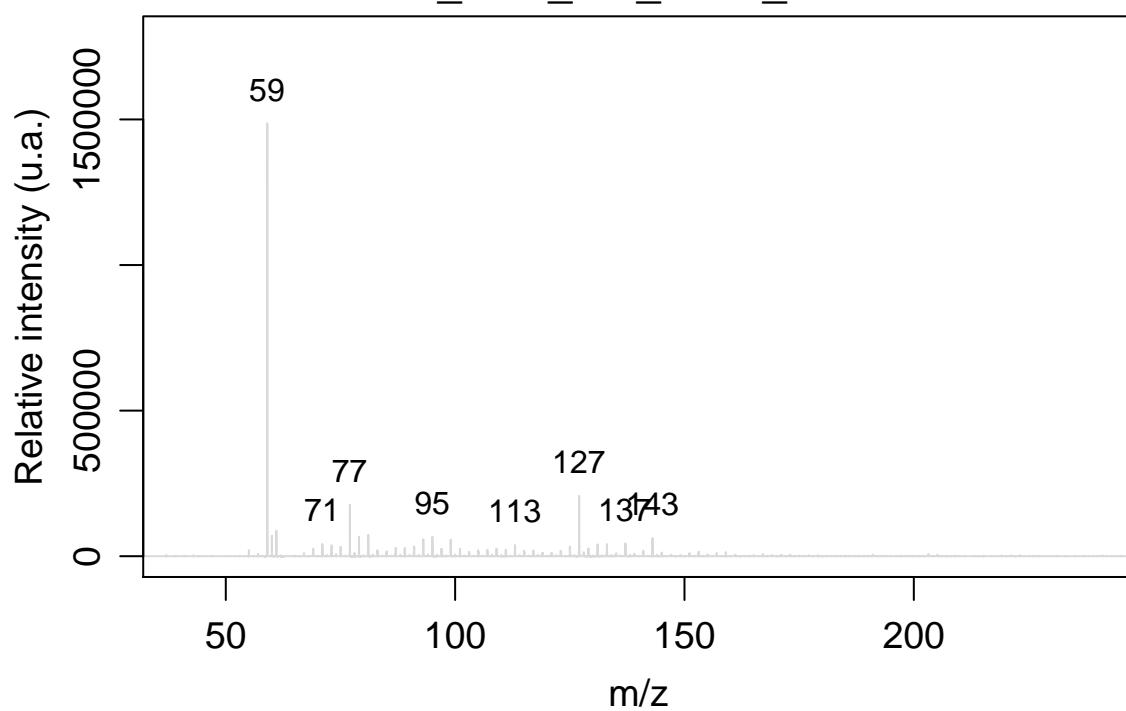
**s3\_Ch1\_!v7\_c084\_n332**



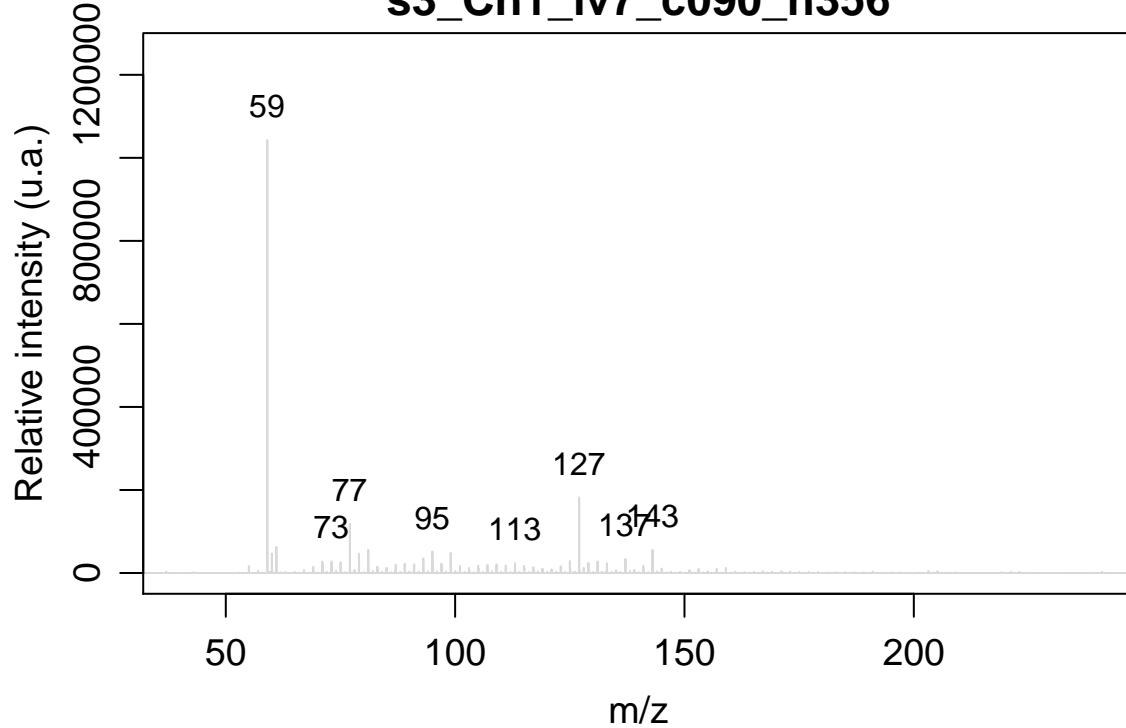
**s3\_Ch1\_!v7\_c086\_n340**



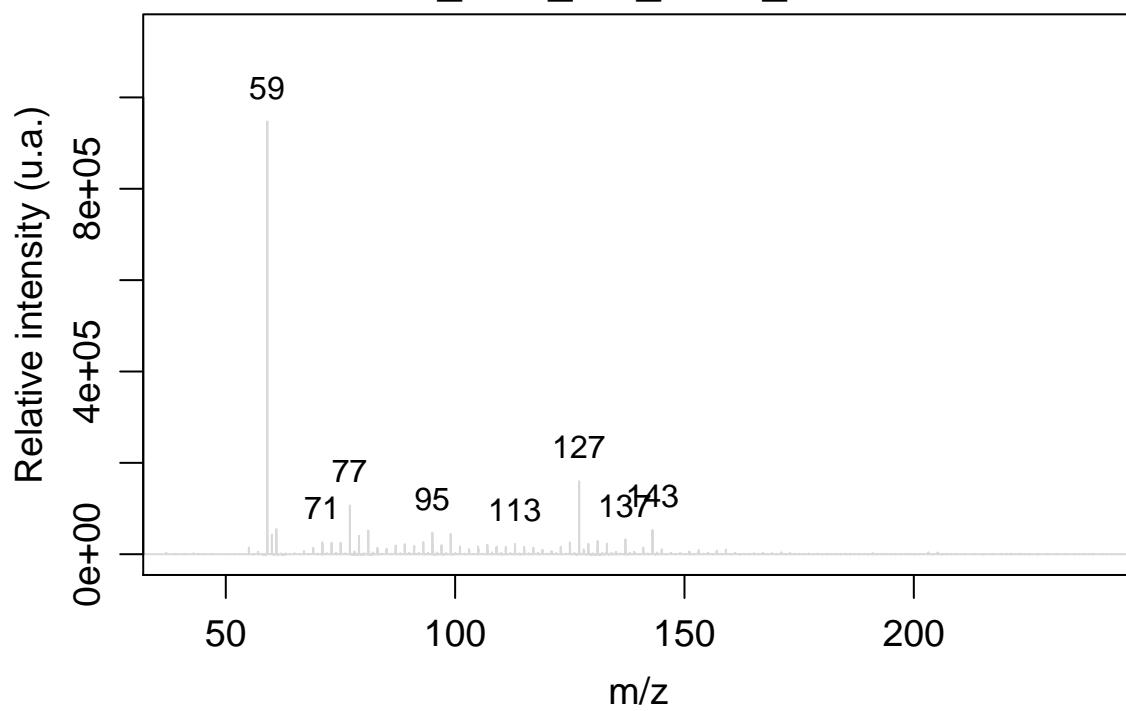
**s3\_Ch1\_!v7\_c088\_n348**



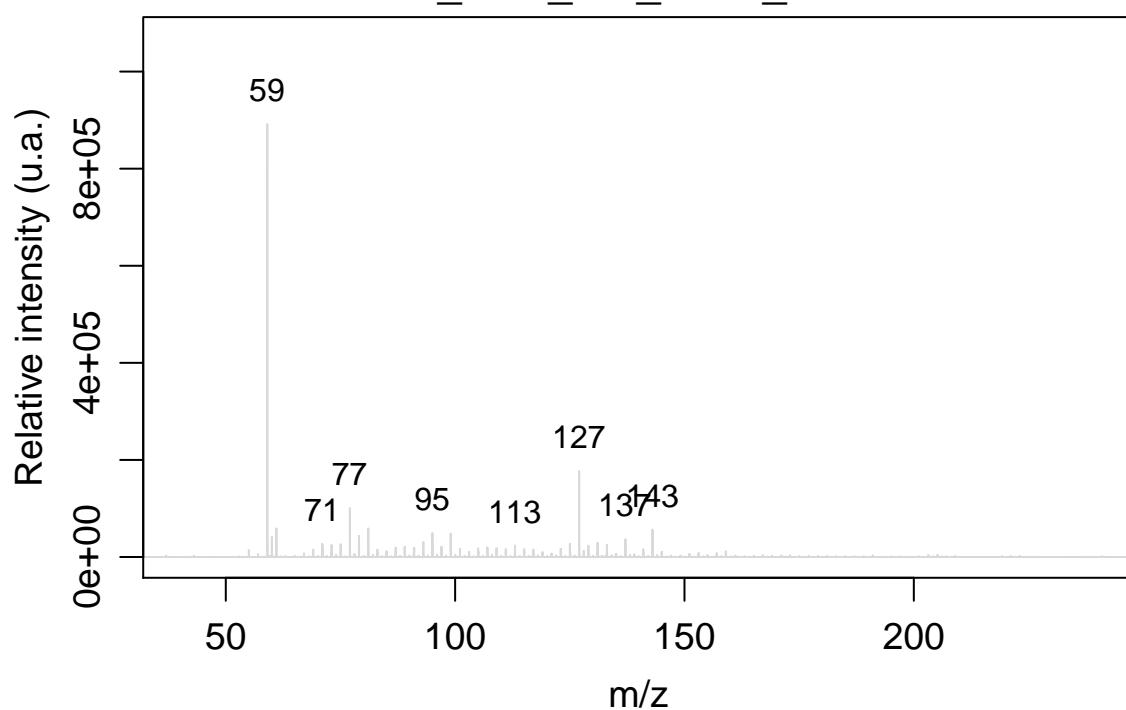
**s3\_Ch1\_!v7\_c090\_n356**



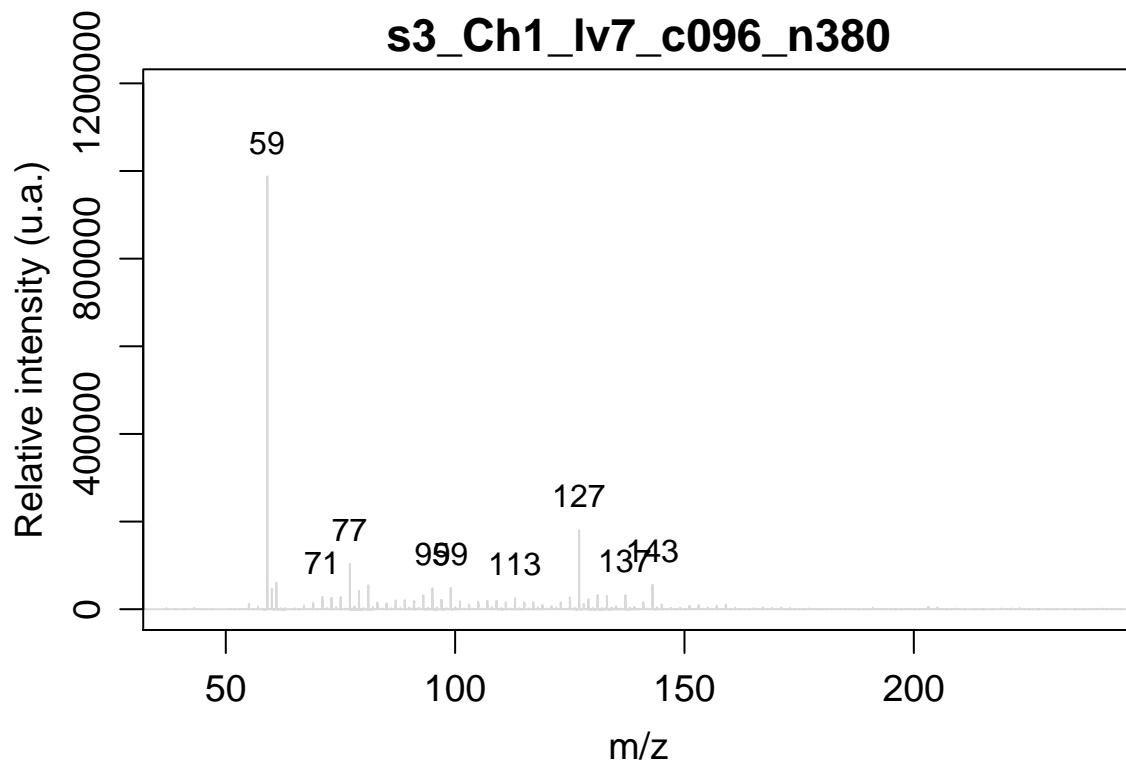
**s3\_Ch1\_!v7\_c092\_n364**



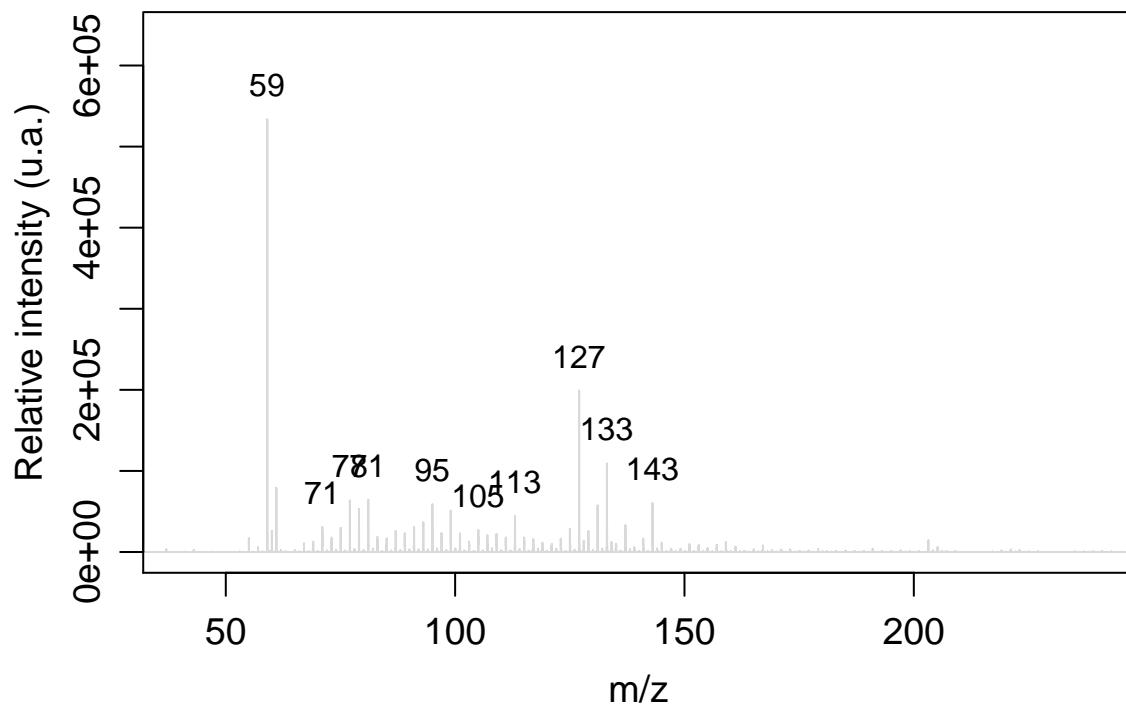
**s3\_Ch1\_!v7\_c094\_n372**



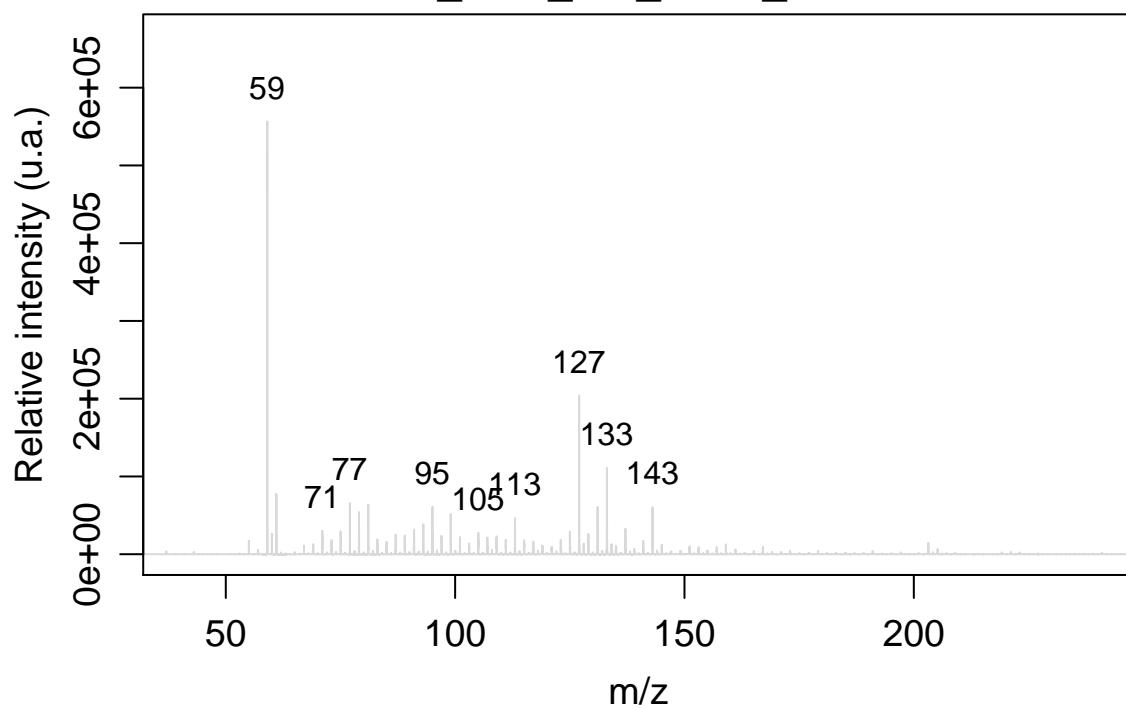
**s3\_Ch1\_!v7\_c096\_n380**



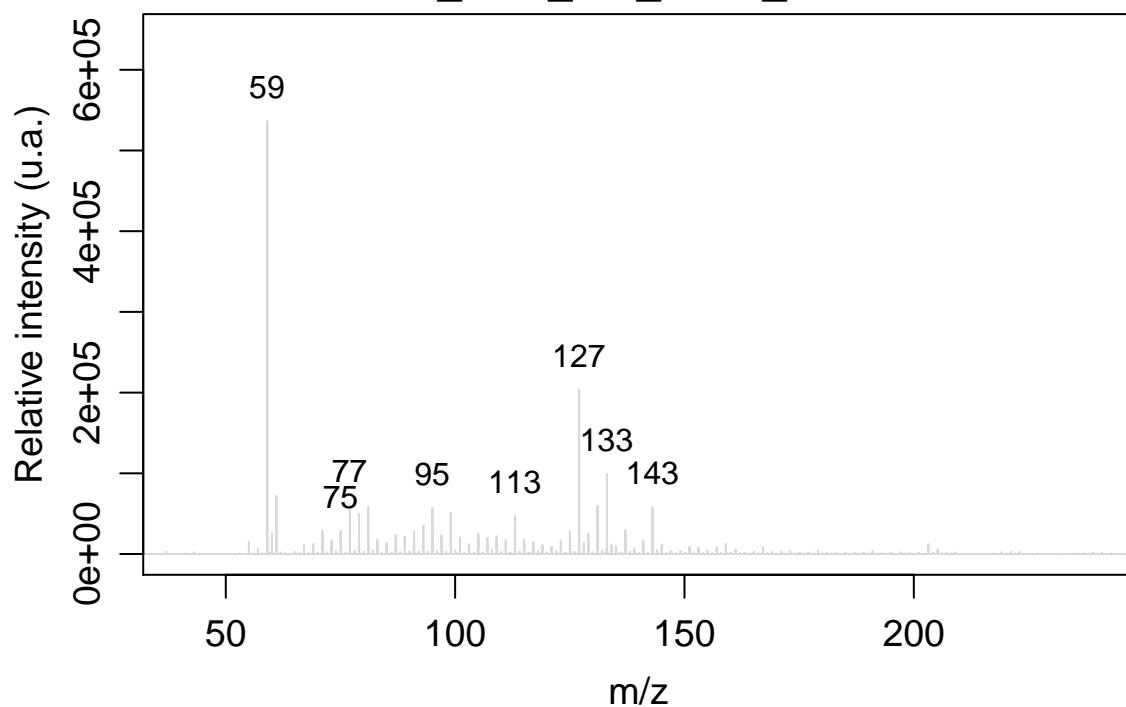
**s3\_Ch2\_!v8\_c028\_n109**



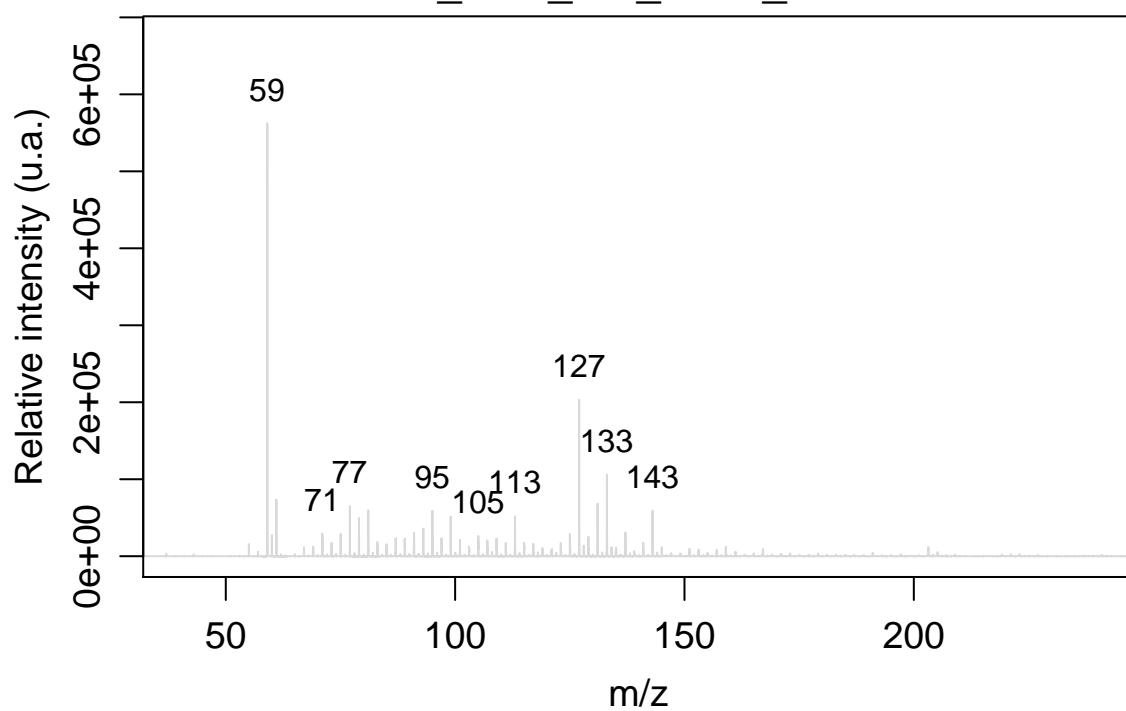
**s3\_Ch2\_!v8\_c030\_n117**



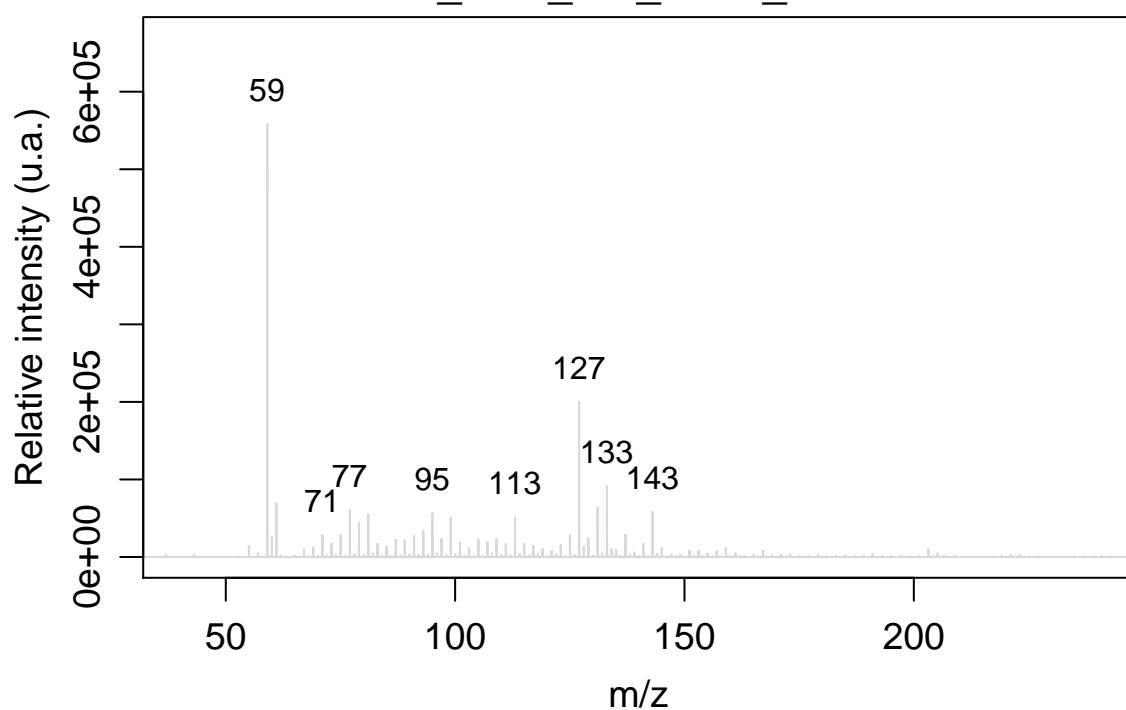
**s3\_Ch2\_!v8\_c032\_n125**



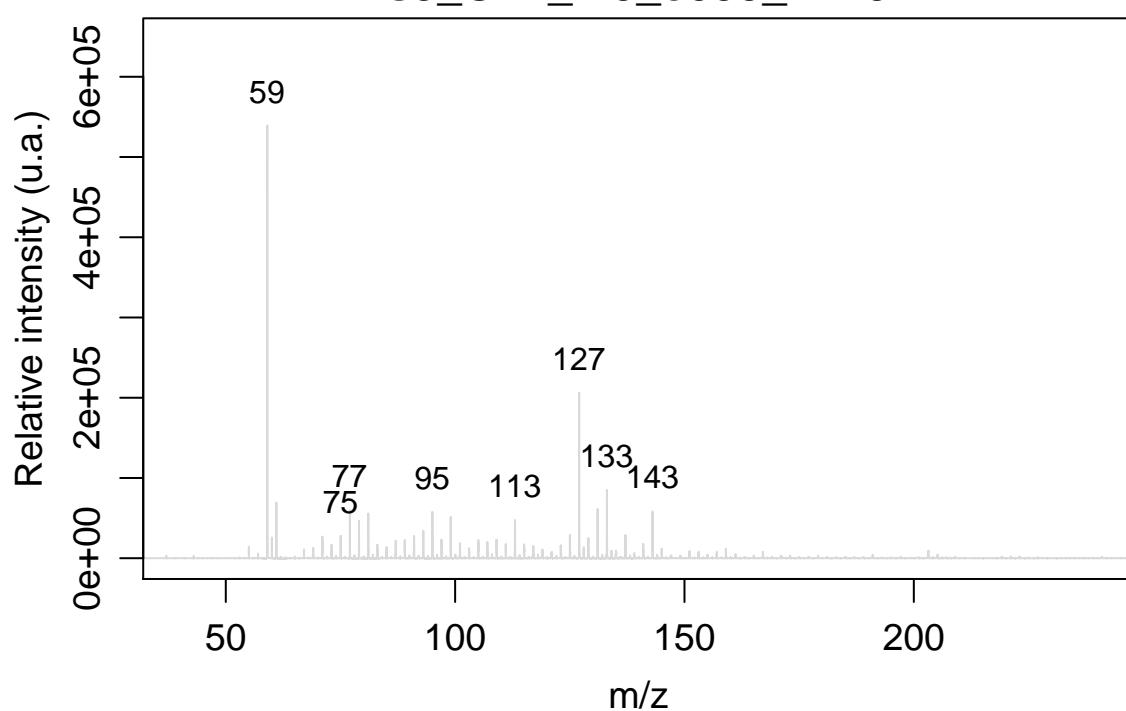
**s3\_Ch2\_!v8\_c034\_n133**



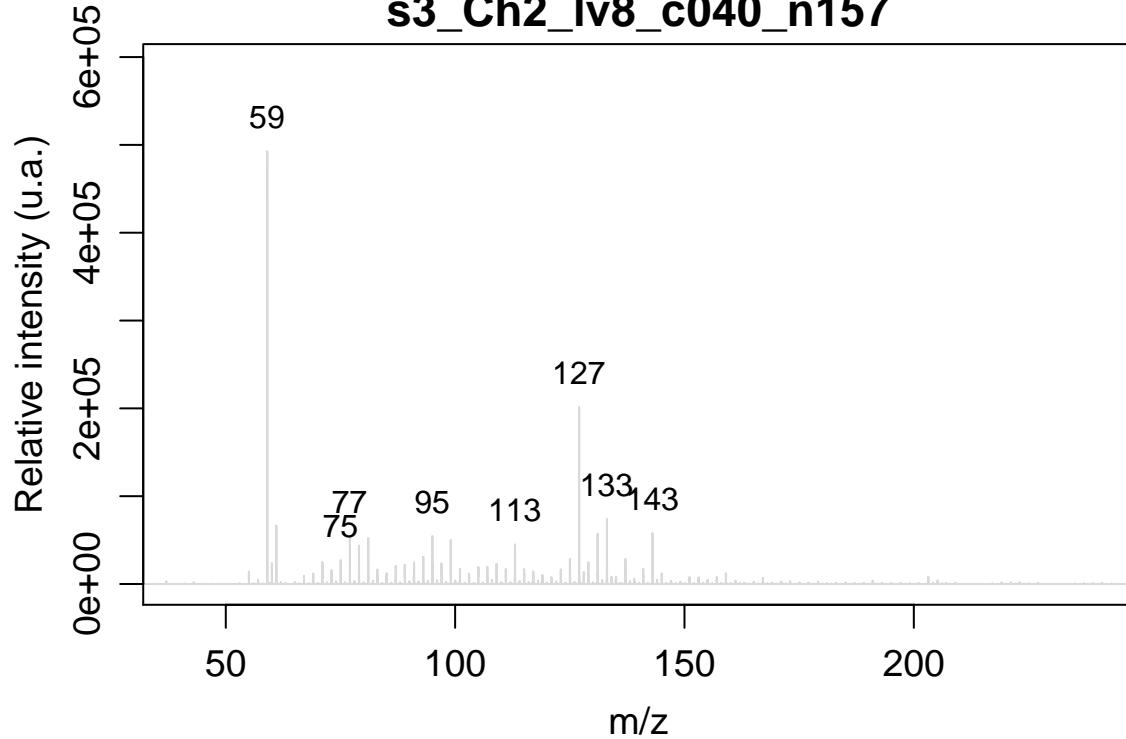
**s3\_Ch2\_!v8\_c036\_n141**



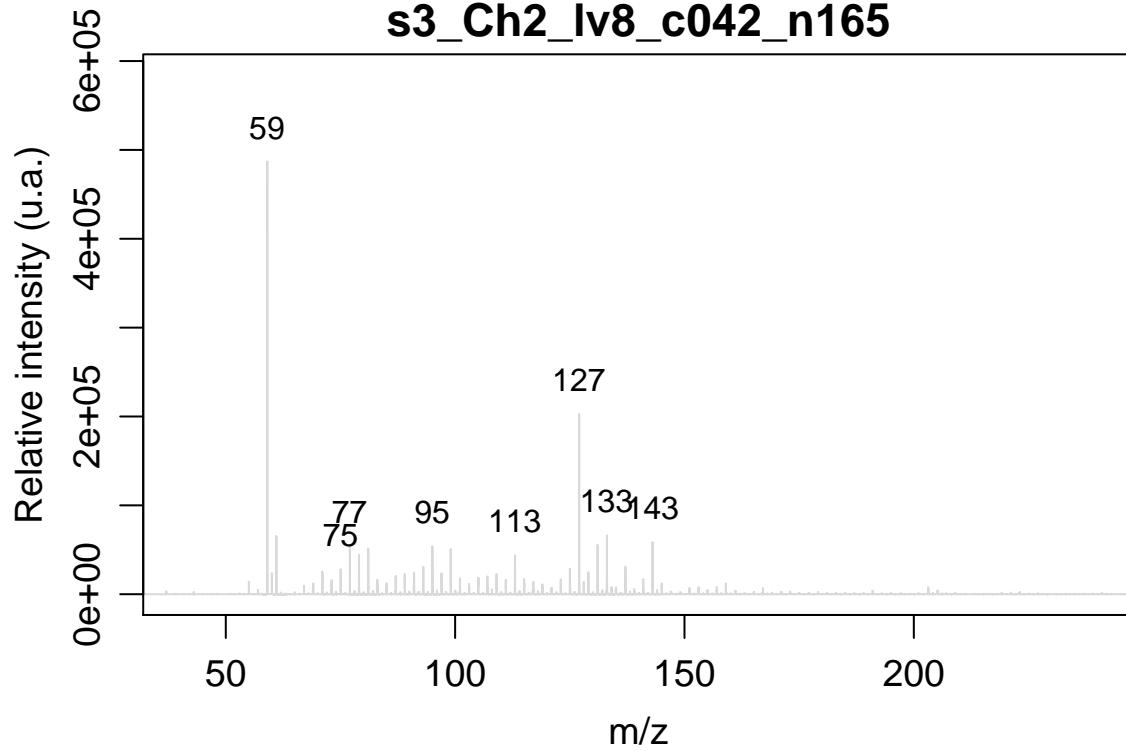
**s3\_Ch2\_!v8\_c038\_n149**



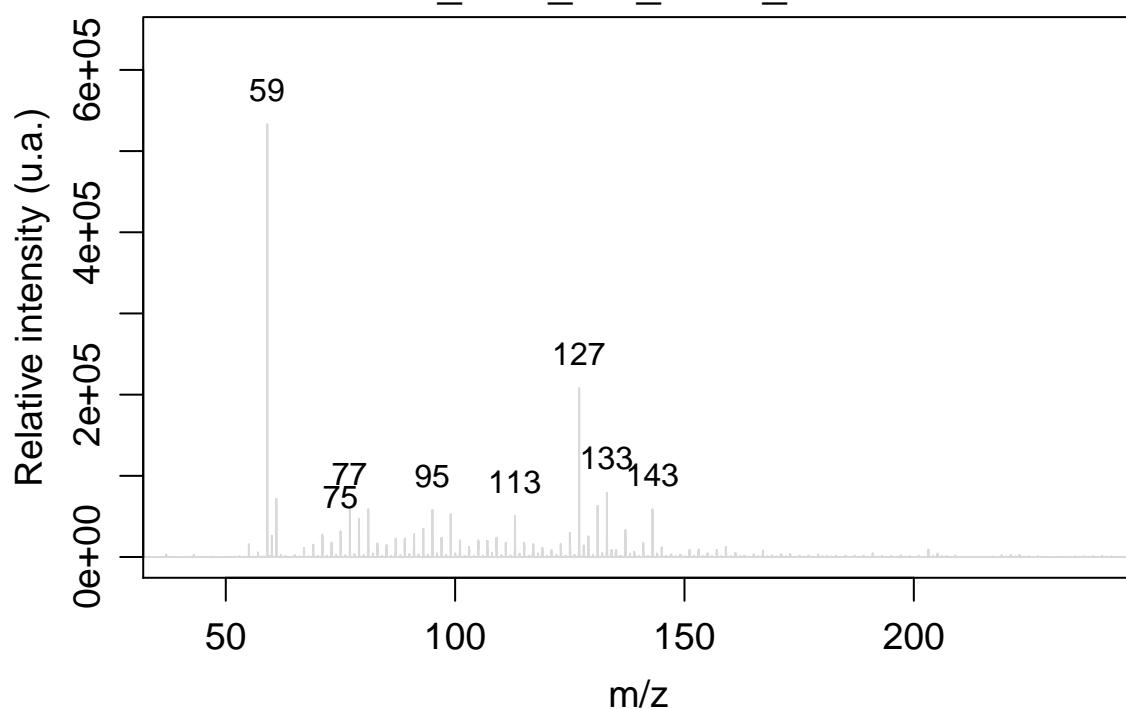
**s3\_Ch2\_lv8\_c040\_n157**



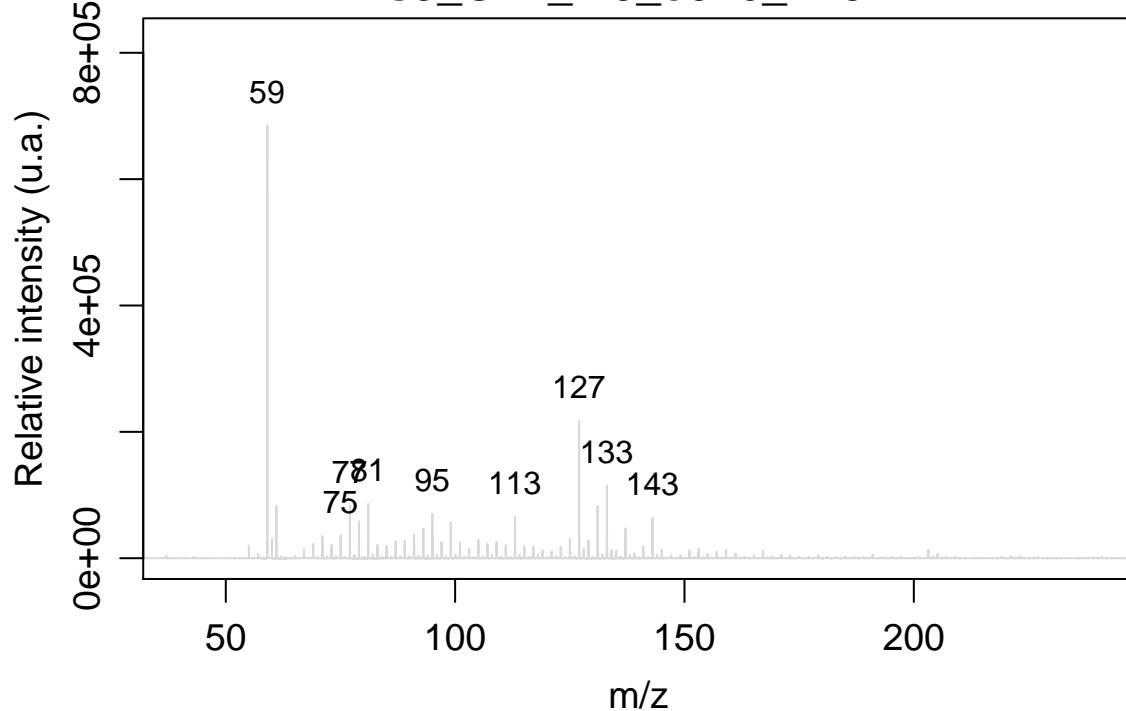
**s3\_Ch2\_lv8\_c042\_n165**



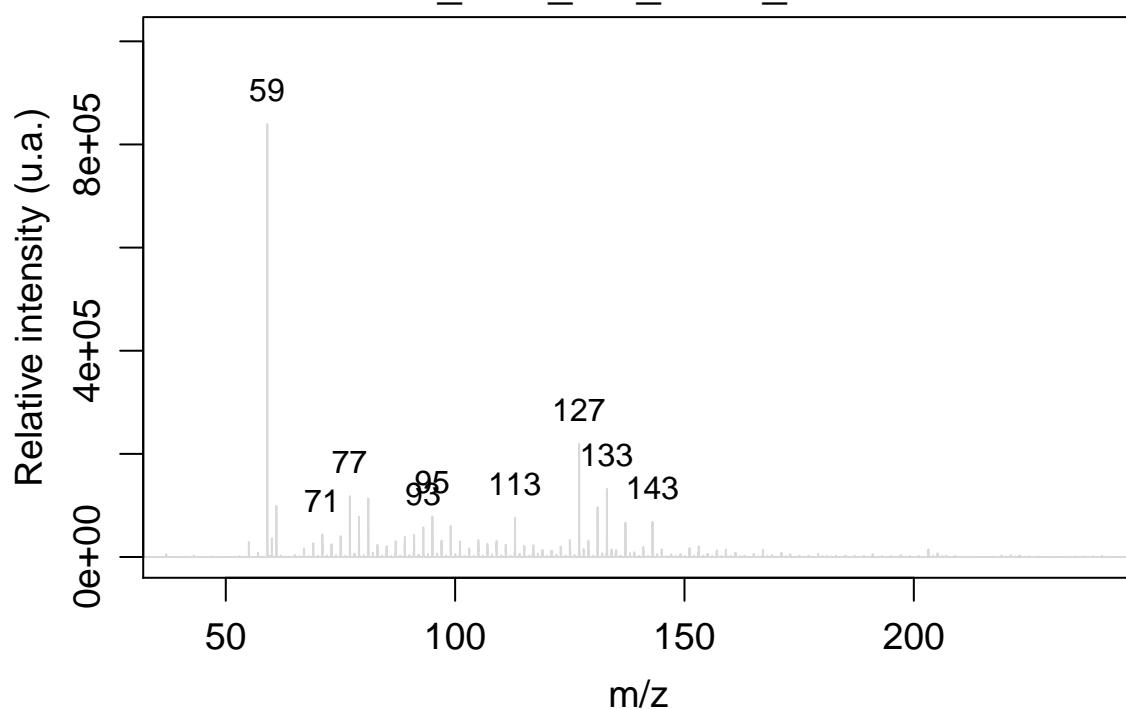
**s3\_Ch2\_lv8\_c044\_n173**



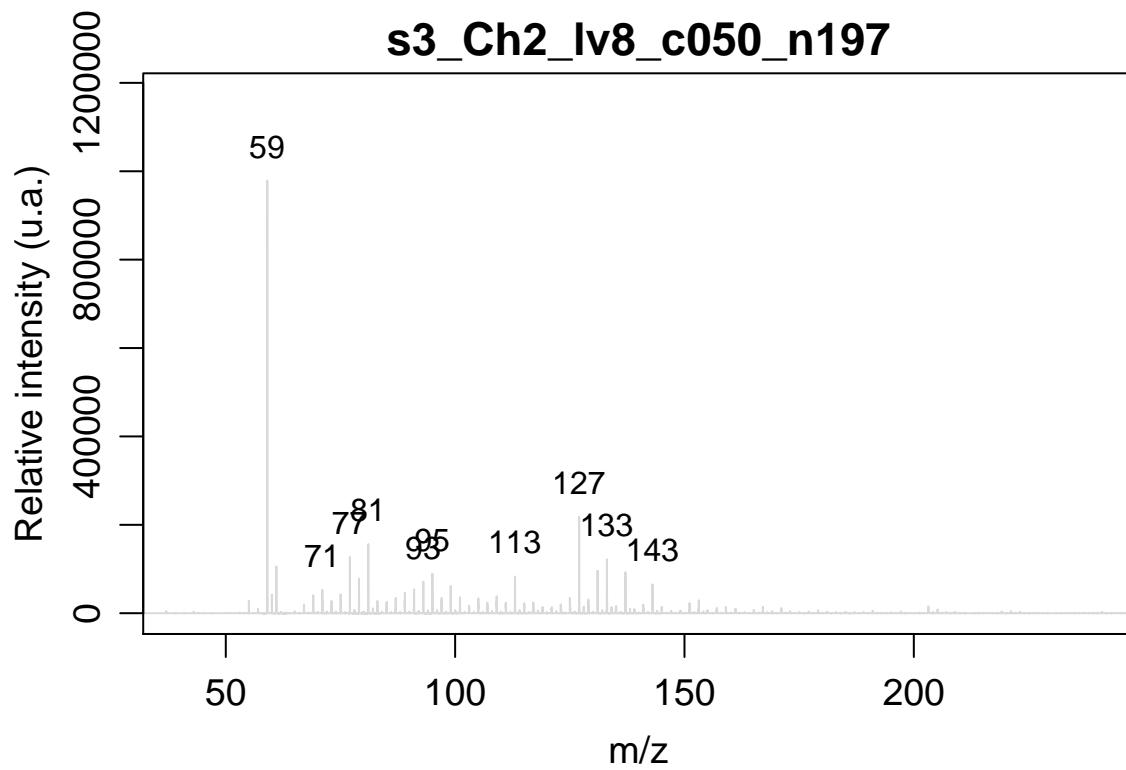
**s3\_Ch2\_lv8\_c046\_n181**



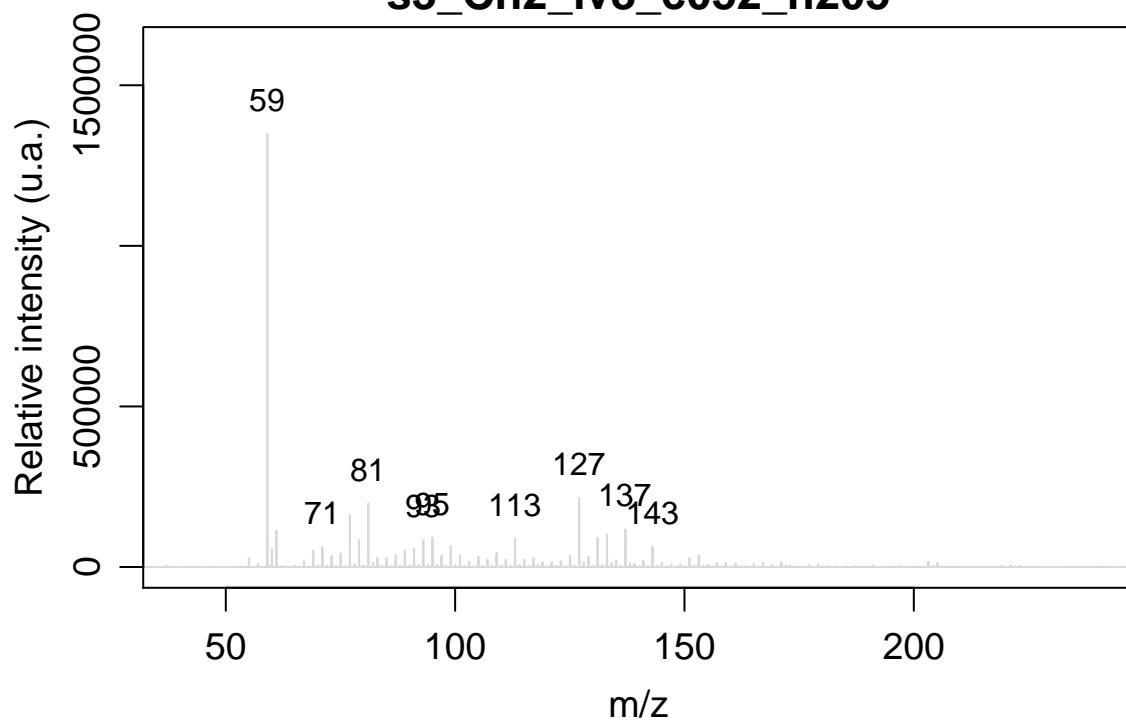
**s3\_Ch2\_1v8\_c048\_n189**



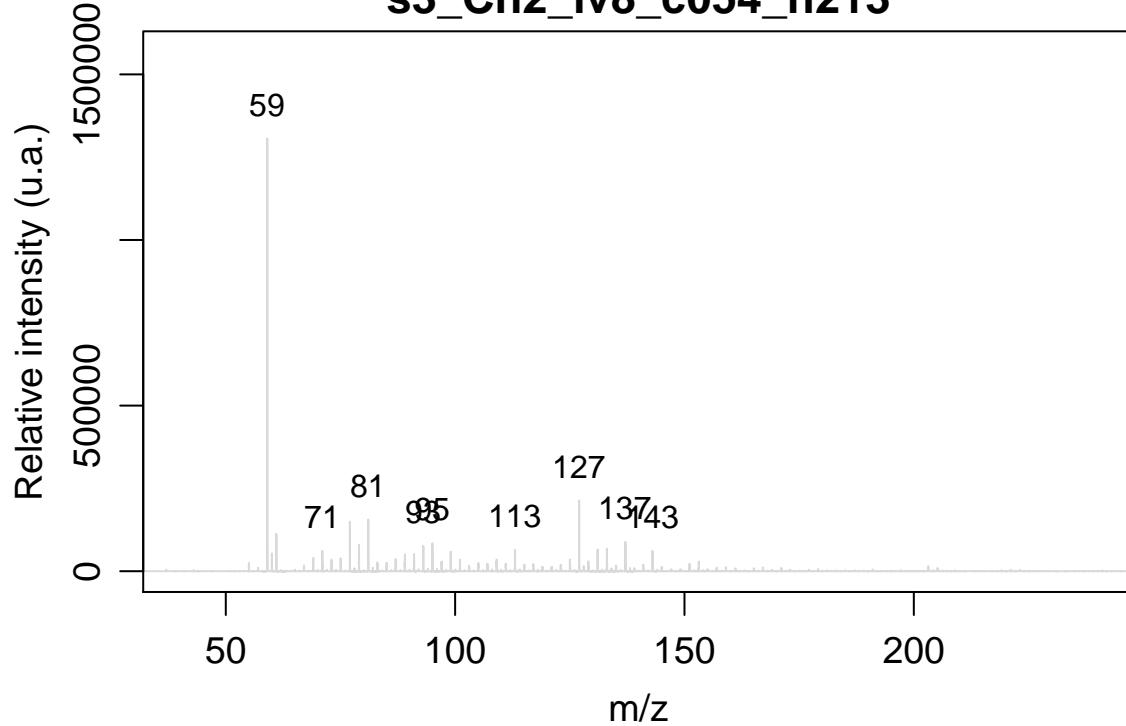
**s3\_Ch2\_1v8\_c050\_n197**



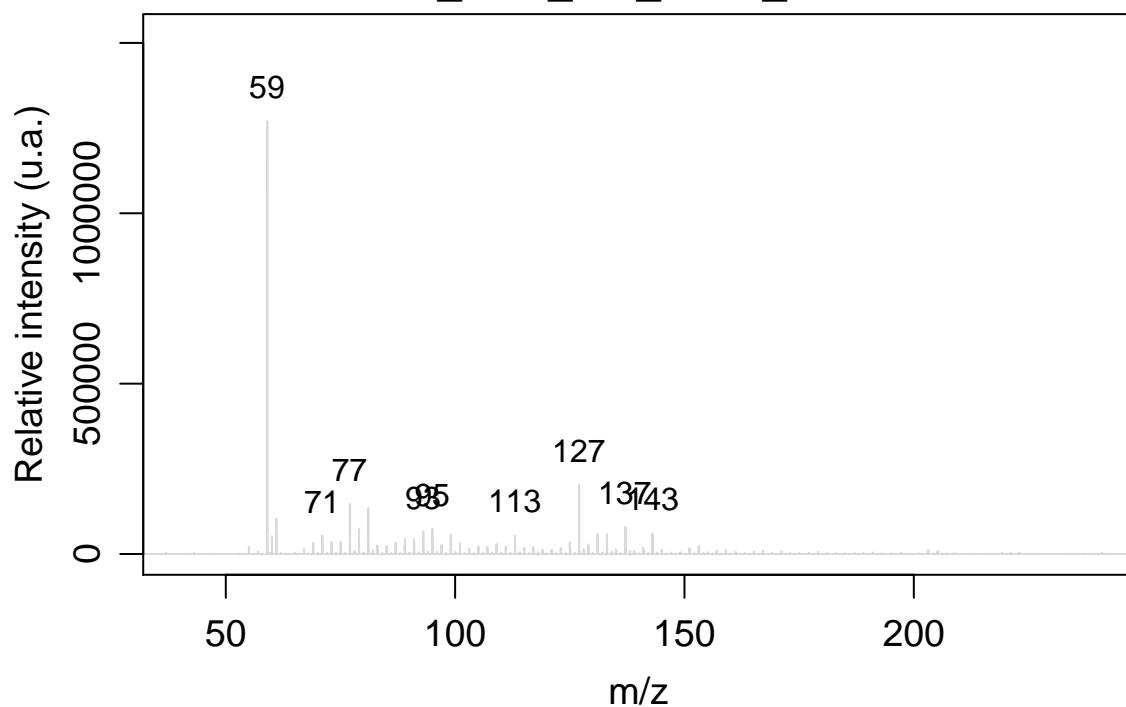
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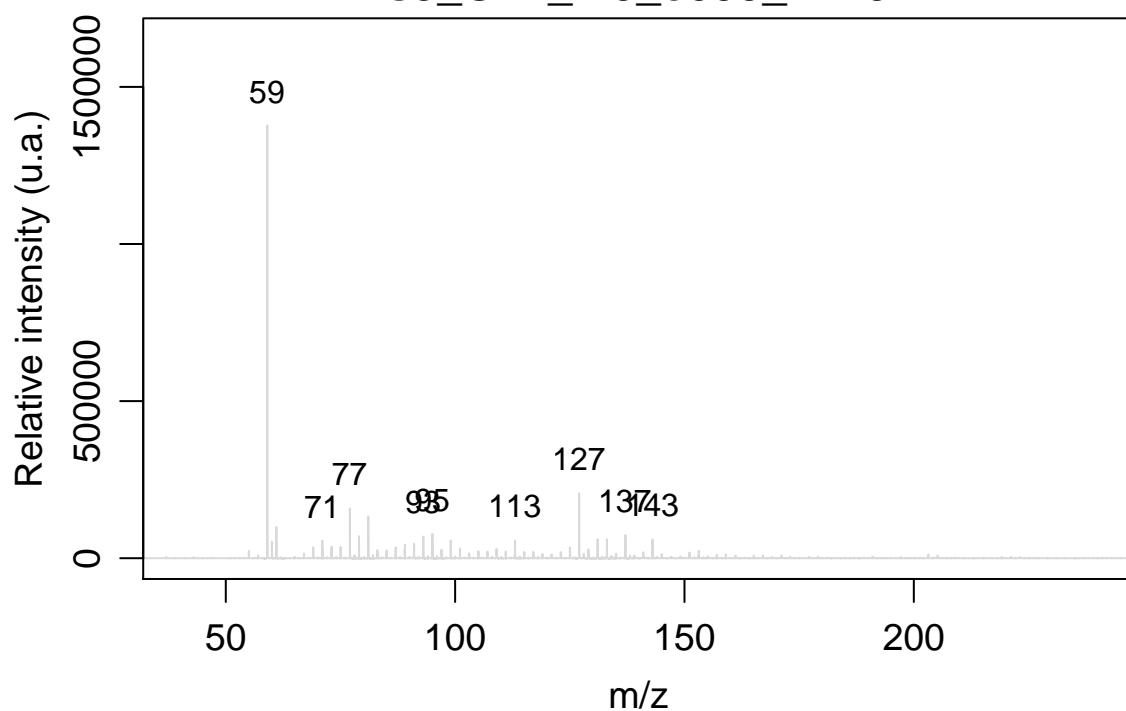
**s3\_Ch2\_lv8\_c054\_n213**



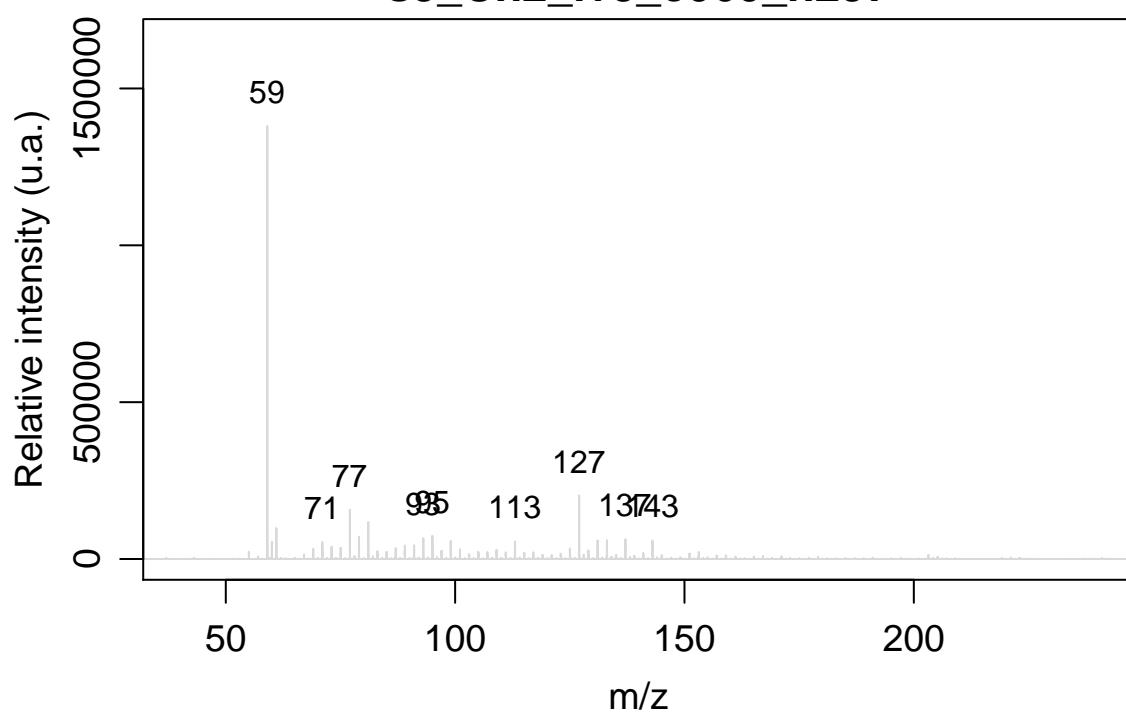
**s3\_Ch2\_!v8\_c056\_n221**



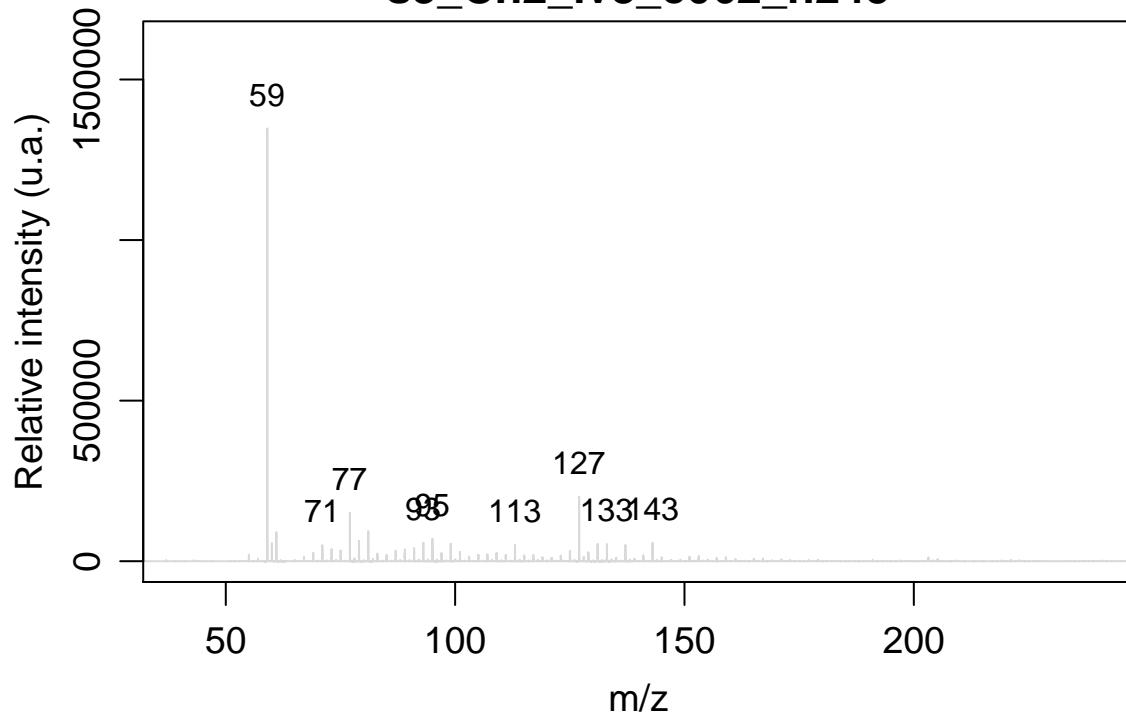
**s3\_Ch2\_!v8\_c058\_n229**



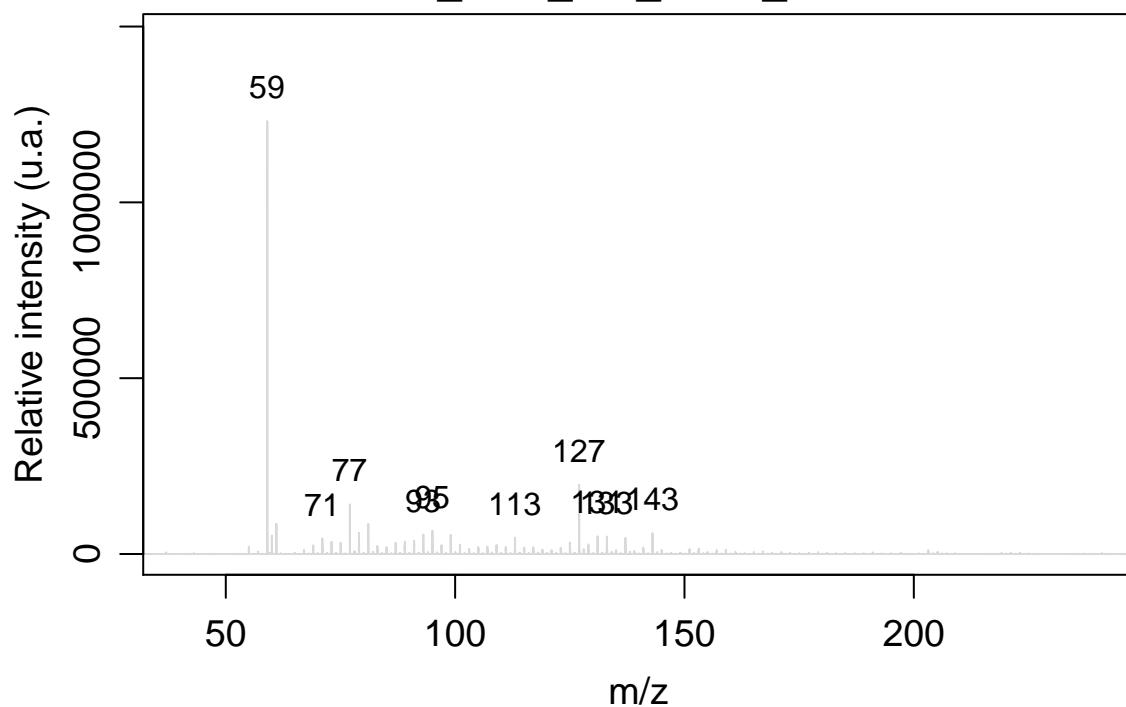
**s3\_Ch2\_!v8\_c060\_n237**



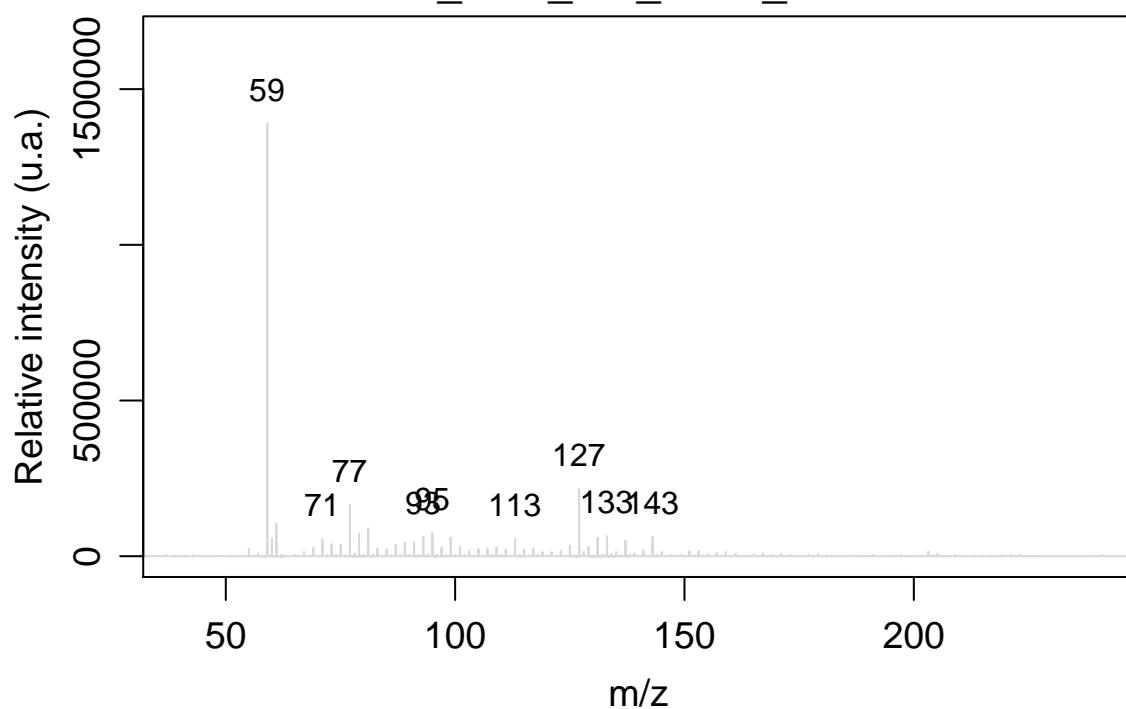
**s3\_Ch2\_!v8\_c062\_n245**



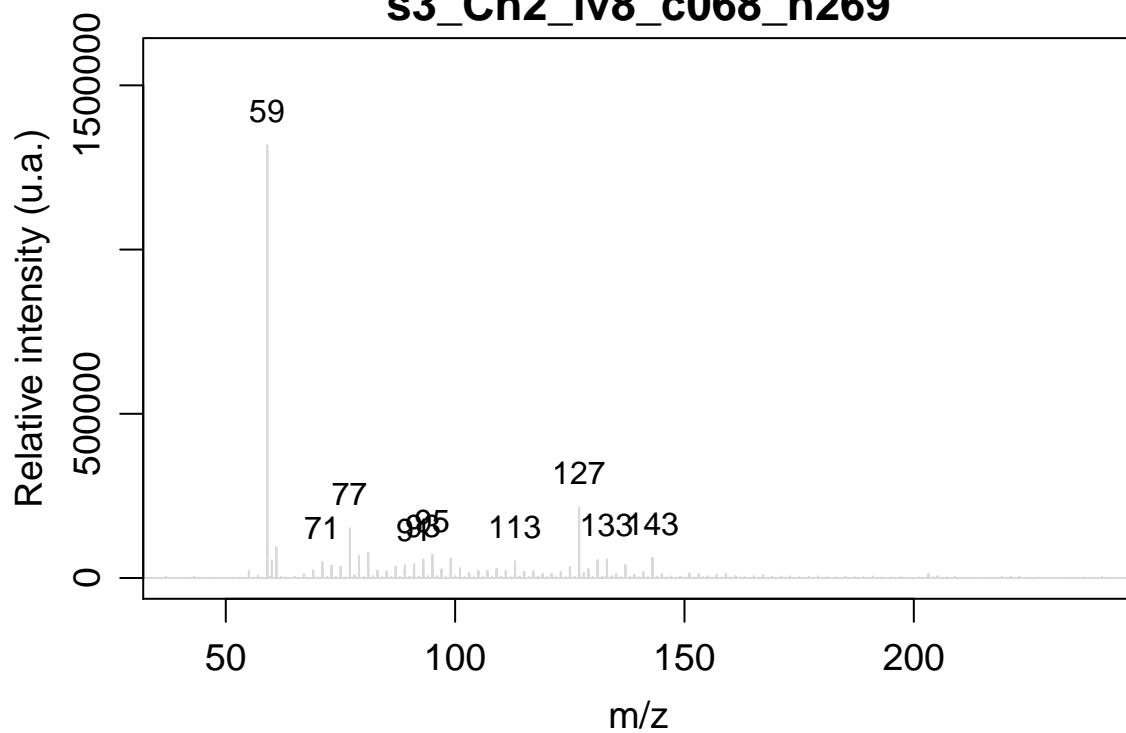
**s3\_Ch2\_lv8\_c064\_n253**



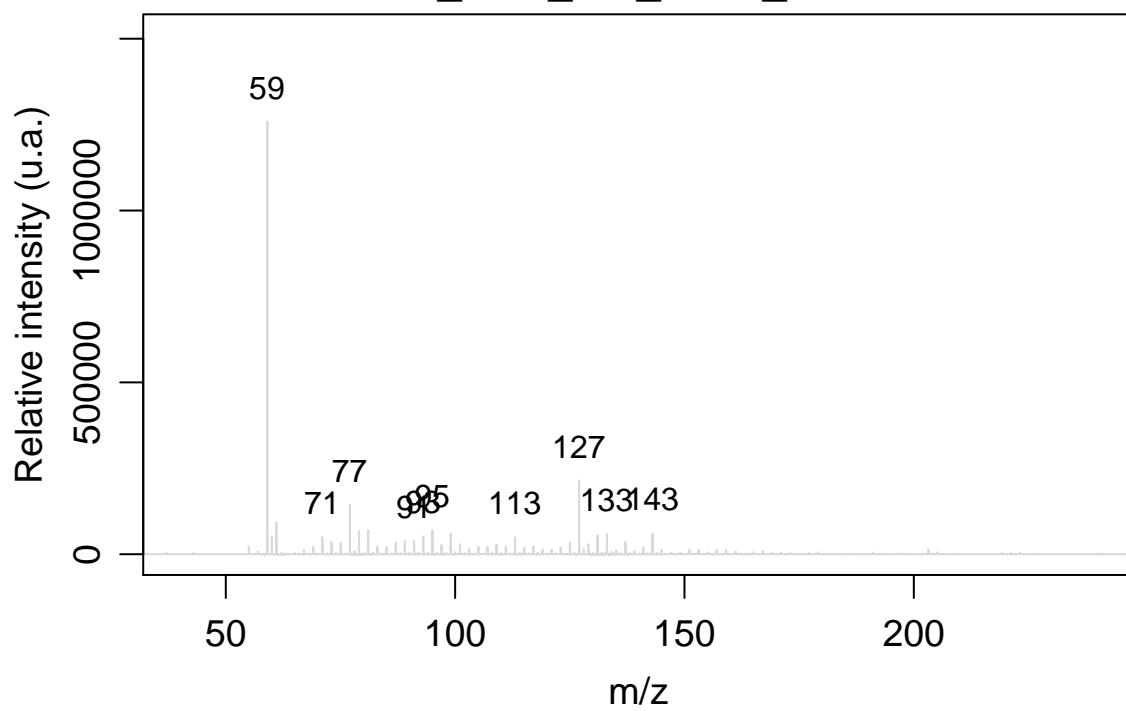
**s3\_Ch2\_lv8\_c066\_n261**



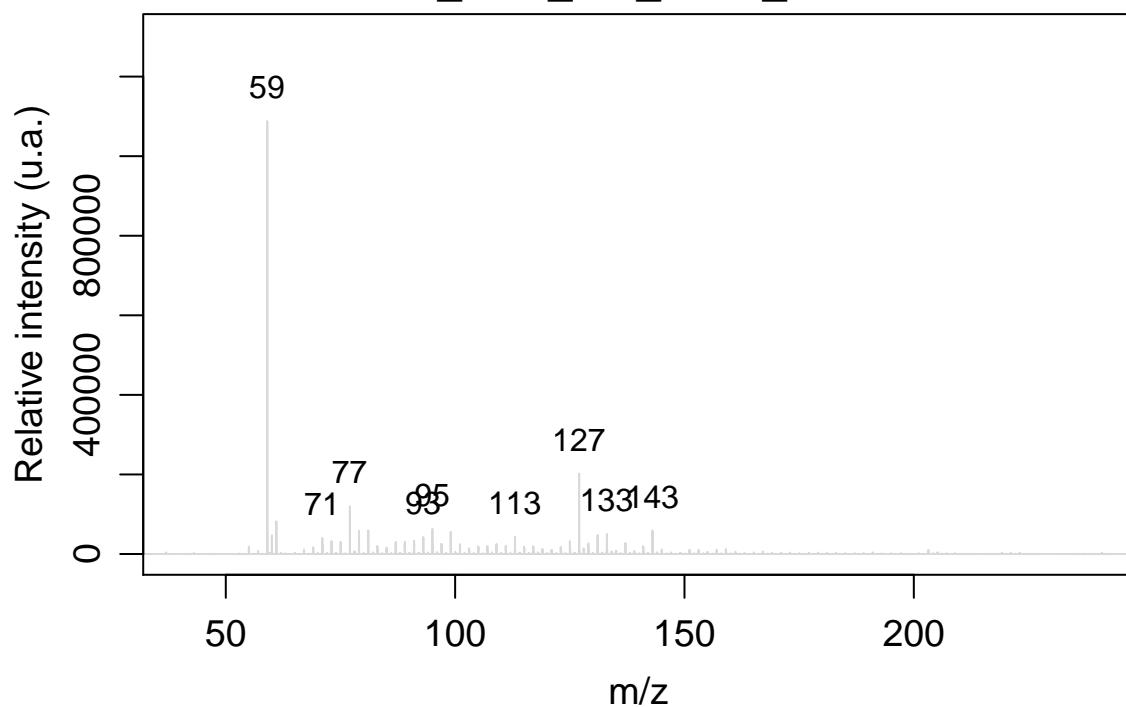
**s3\_Ch2\_lv8\_c068\_n269**



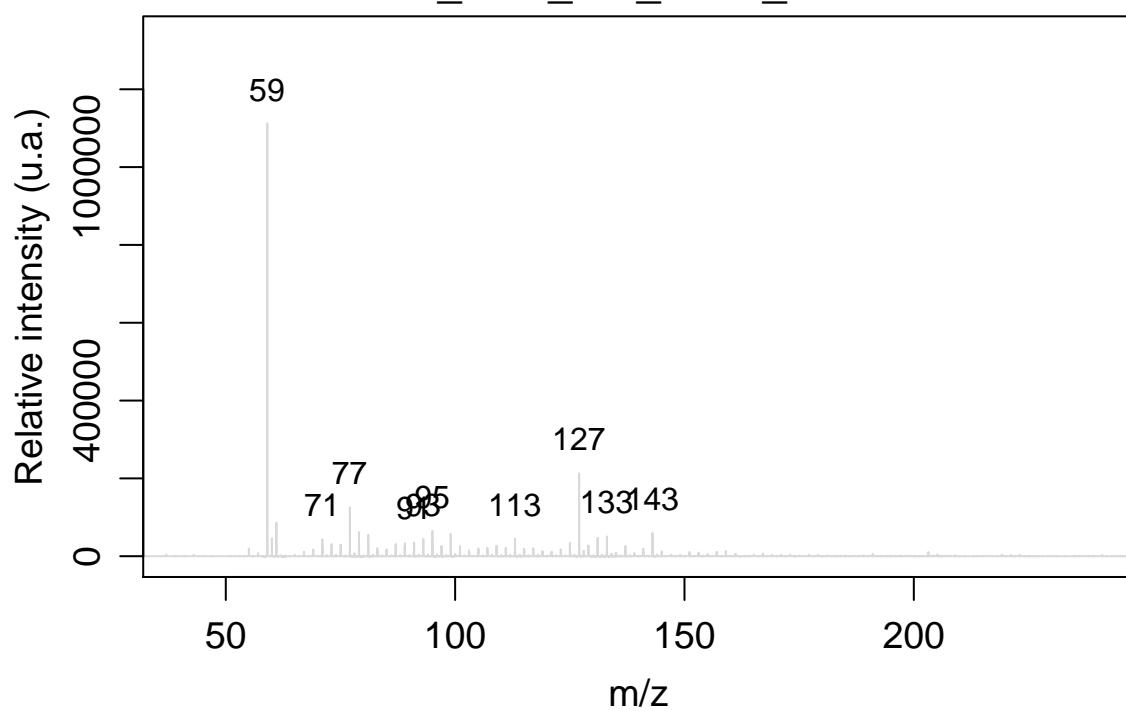
**s3\_Ch2\_lv8\_c070\_n277**



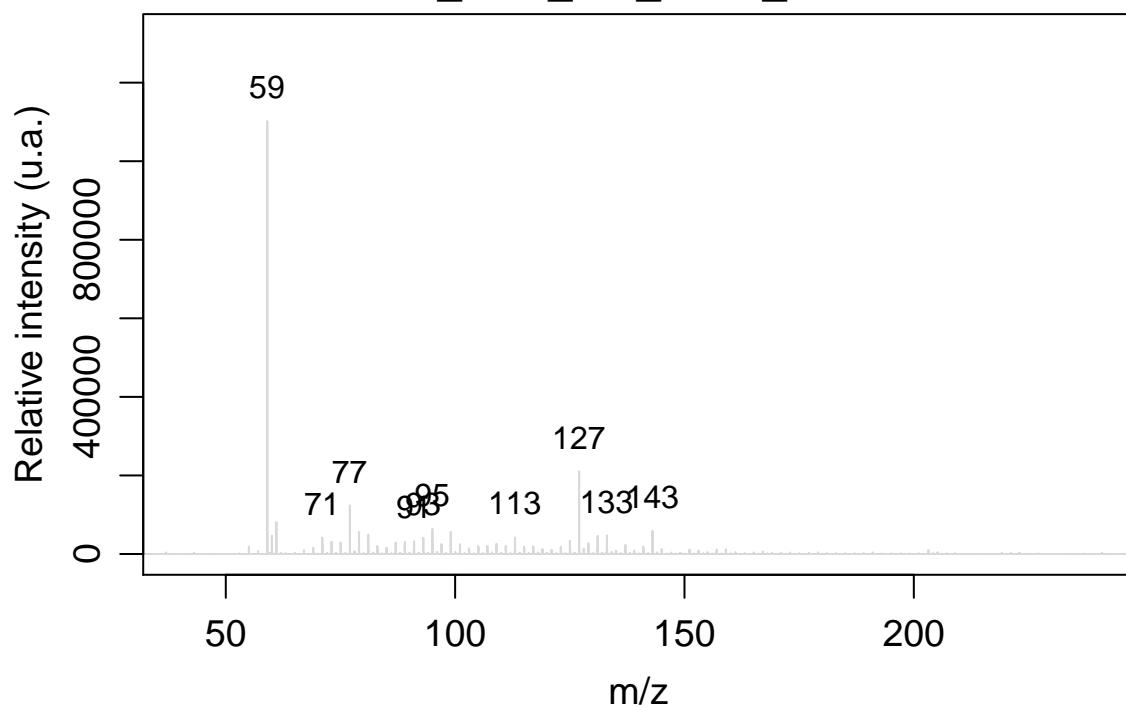
**s3\_Ch2\_!v8\_c072\_n285**



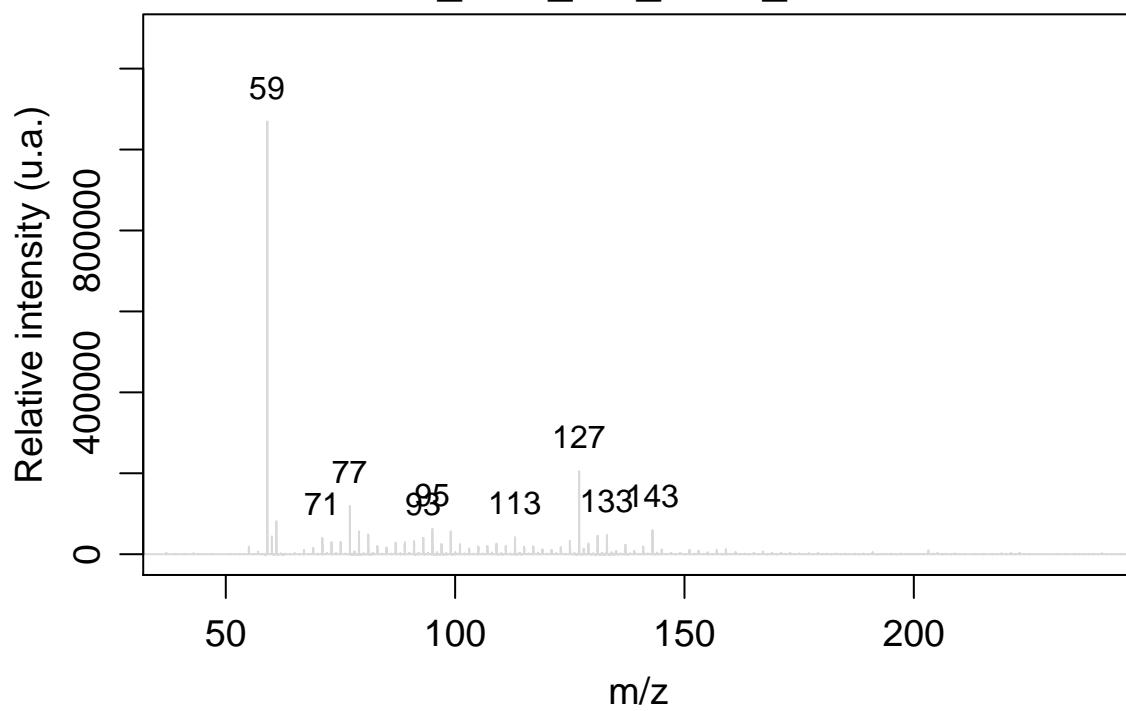
**s3\_Ch2\_!v8\_c074\_n293**



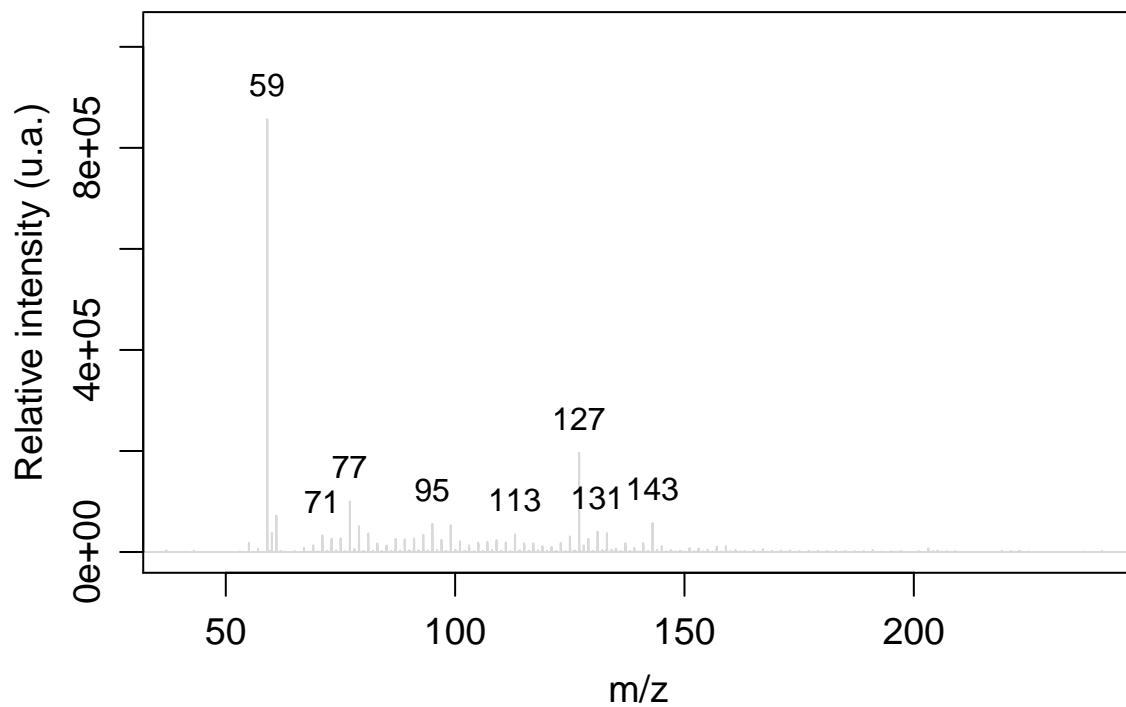
**s3\_Ch2\_!v8\_c076\_n301**



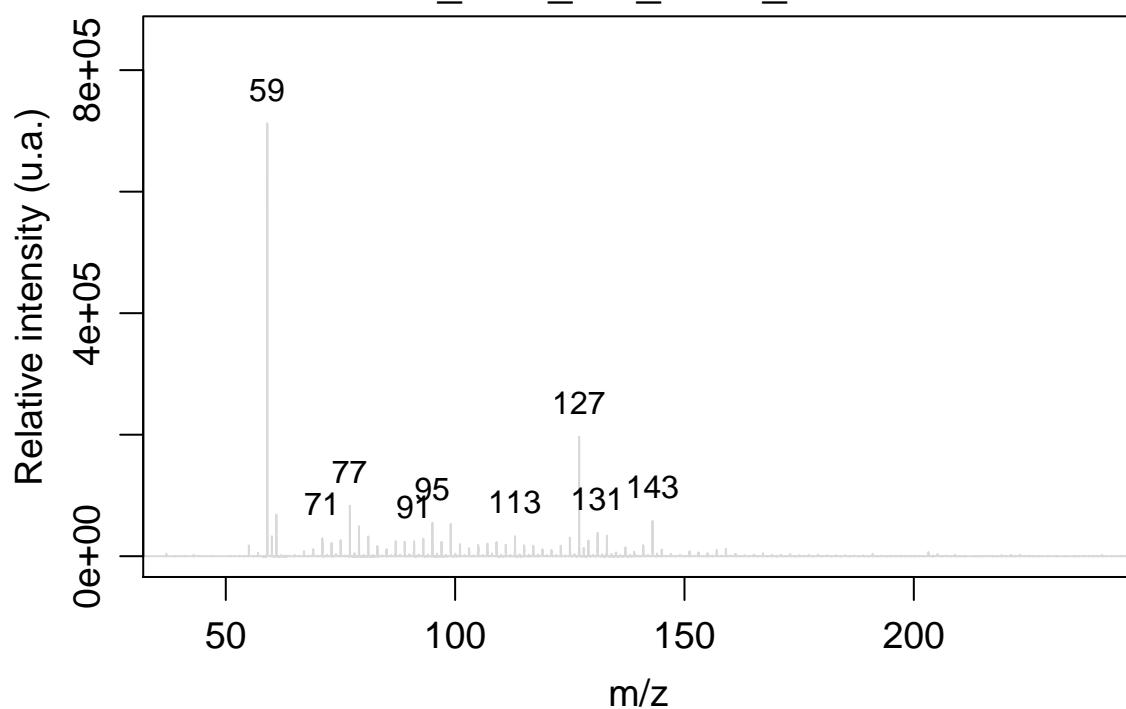
**s3\_Ch2\_!v8\_c078\_n309**



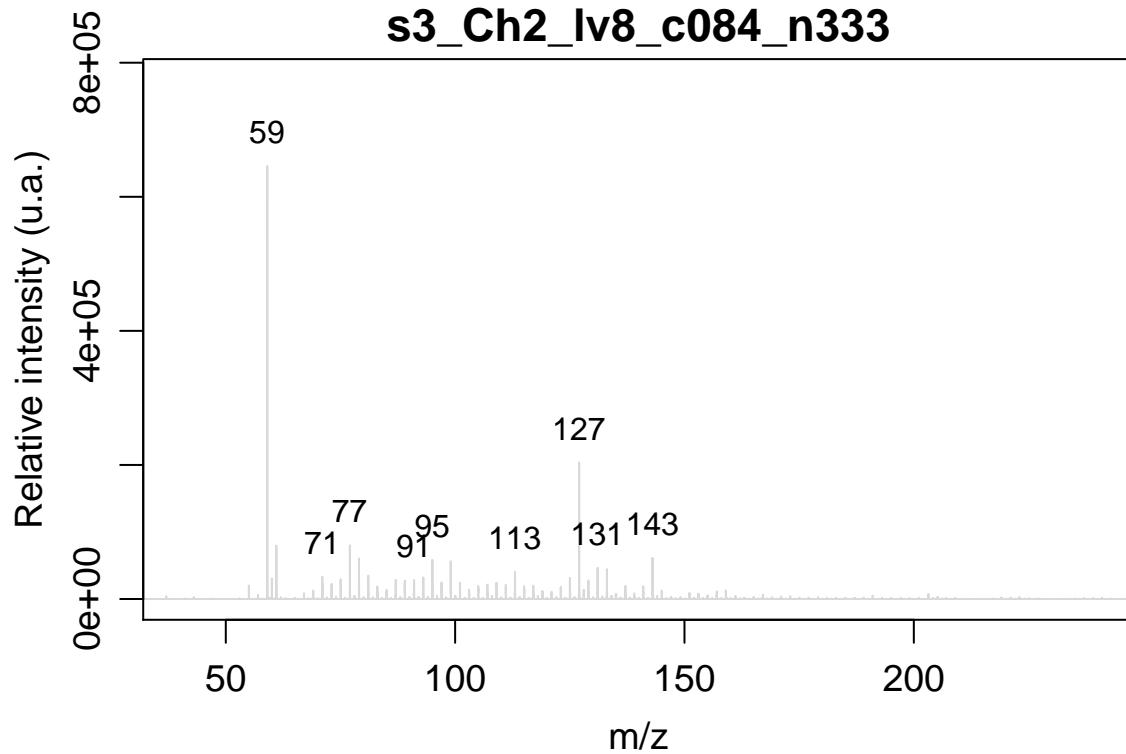
**s3\_Ch2\_1v8\_c080\_n317**



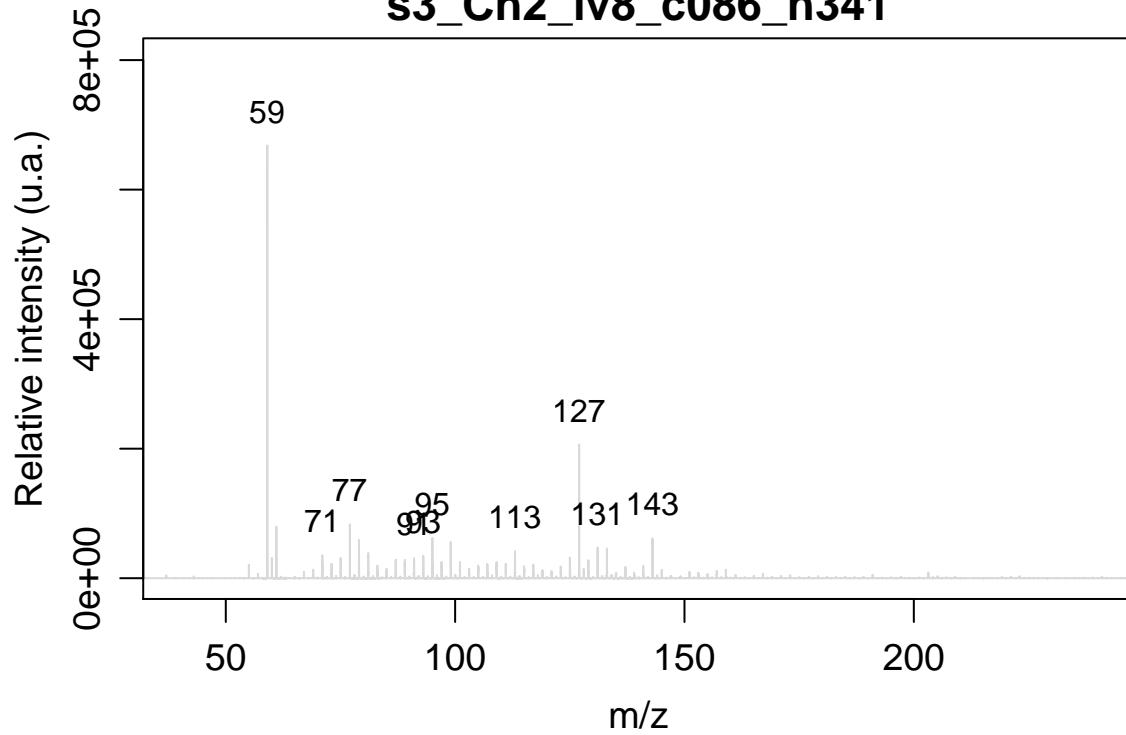
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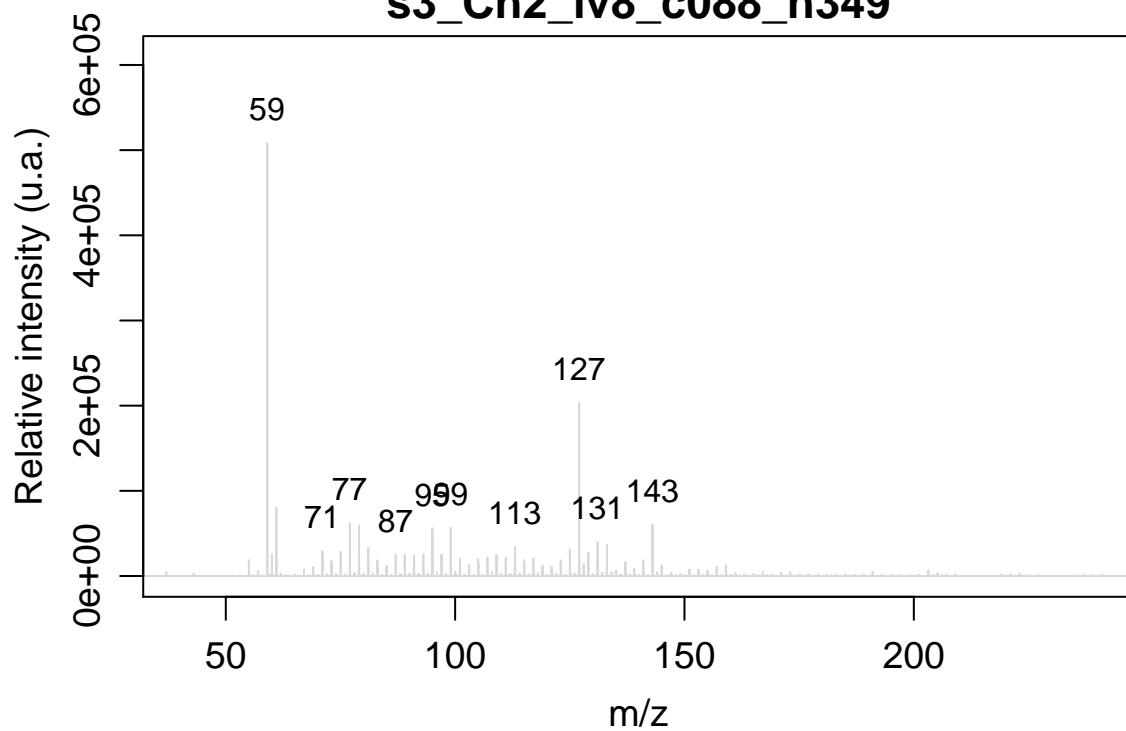
**s3\_Ch2\_lv8\_c084\_n333**



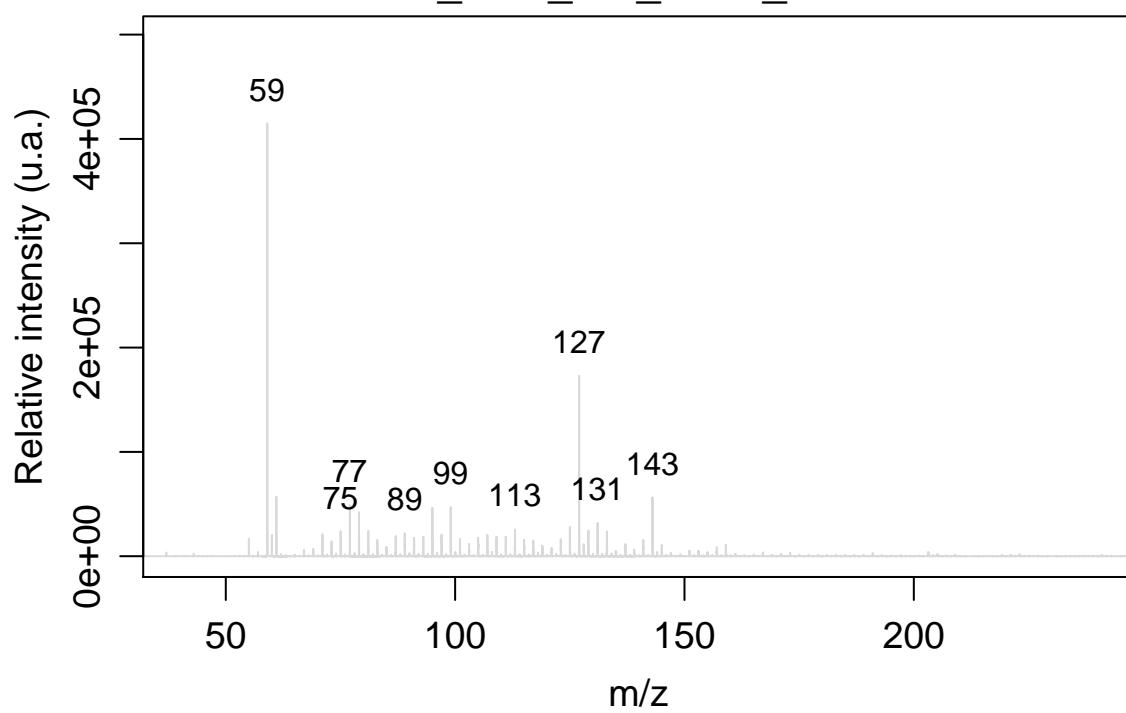
**s3\_Ch2\_lv8\_c086\_n341**



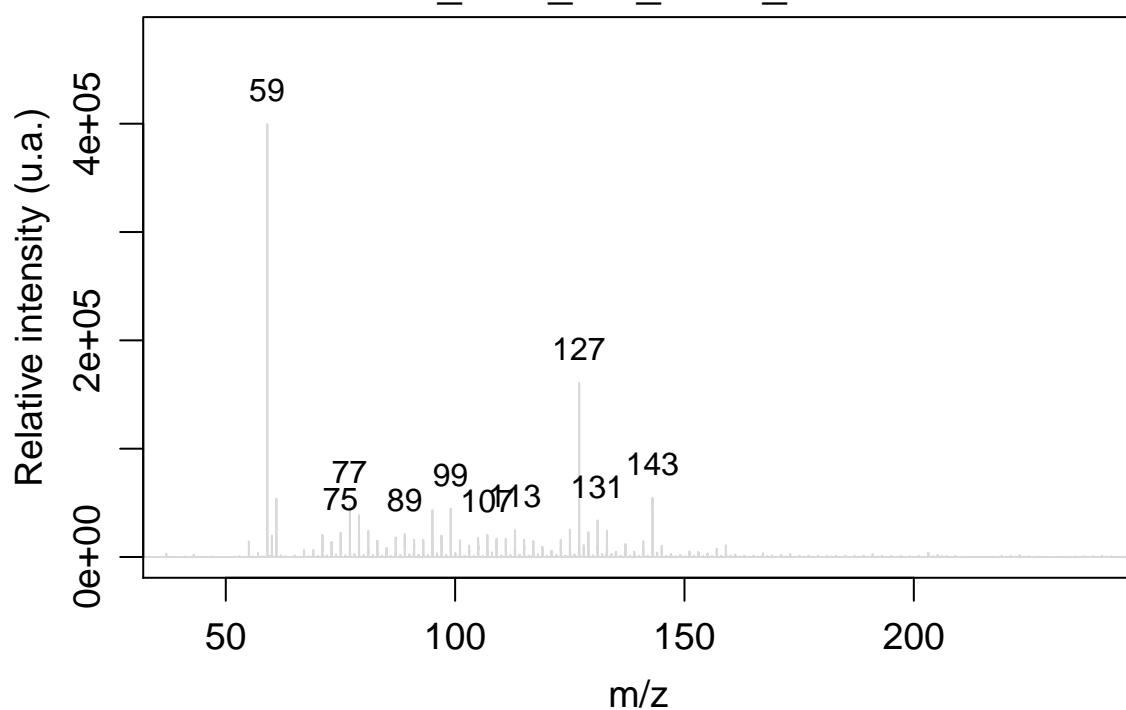
**s3\_Ch2\_!v8\_c088\_n349**



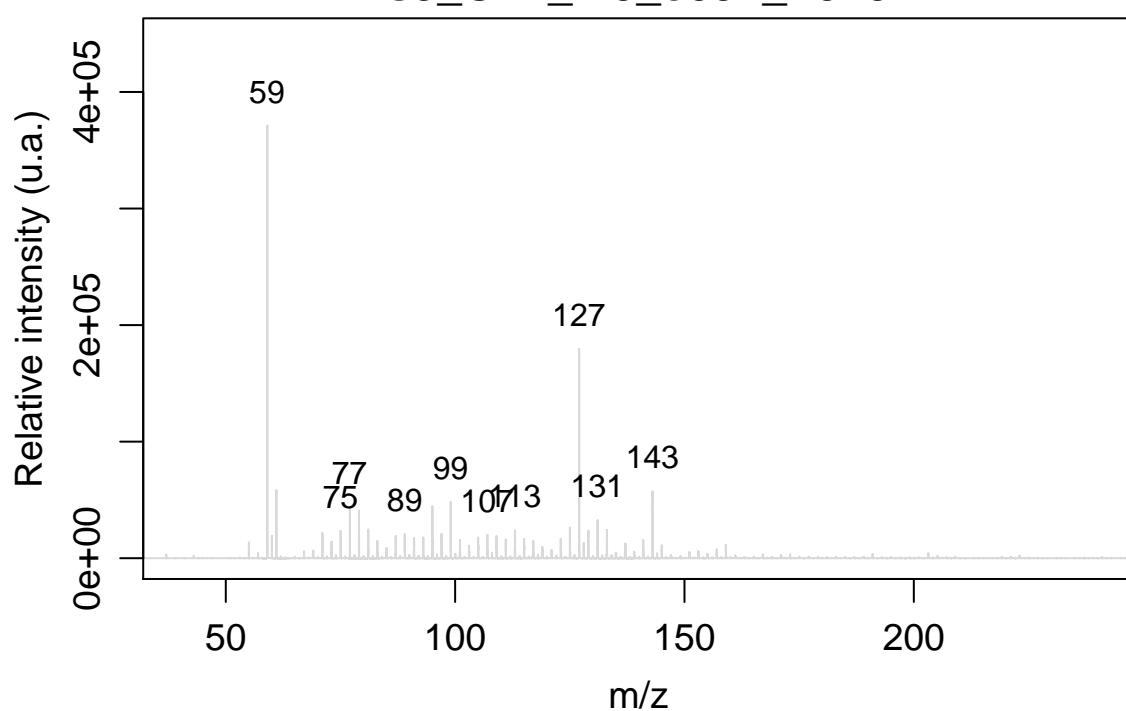
**s3\_Ch2\_!v8\_c090\_n357**



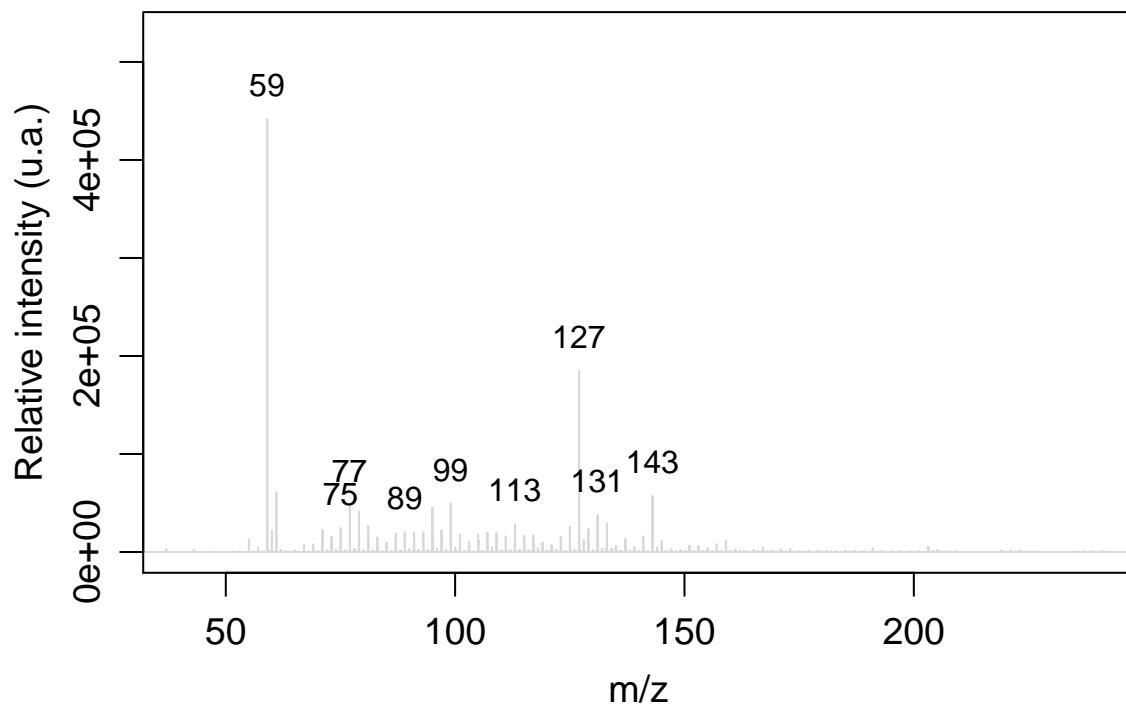
**s3\_Ch2\_1v8\_c092\_n365**



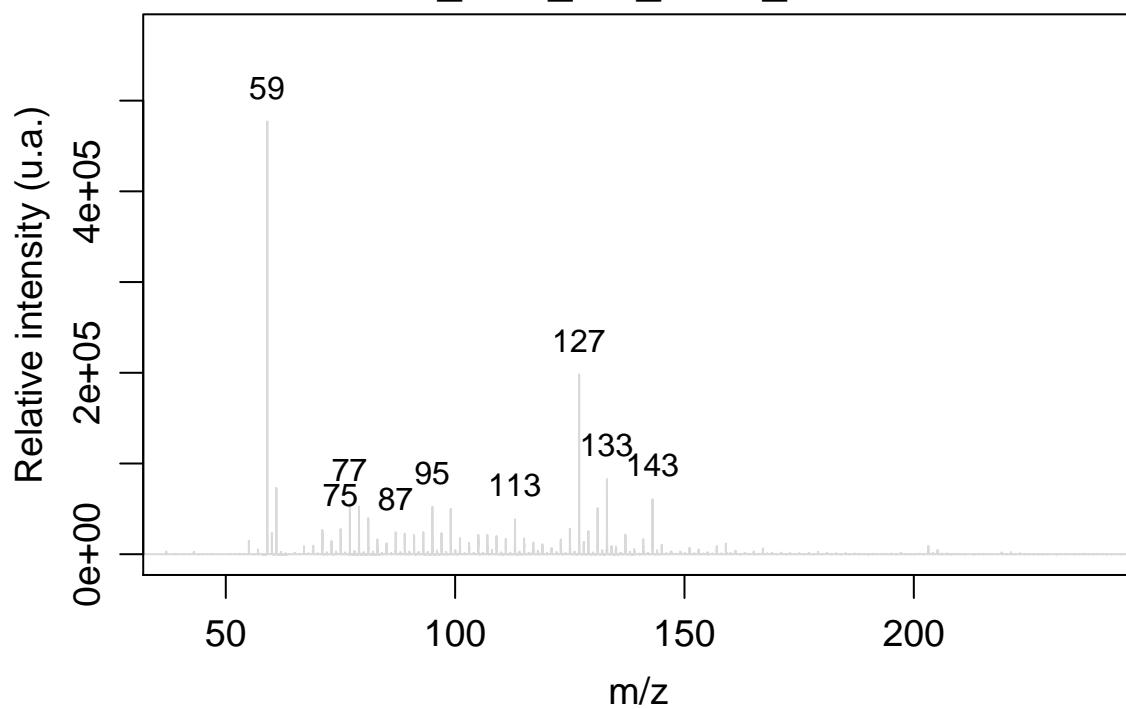
**s3\_Ch2\_1v8\_c094\_n373**



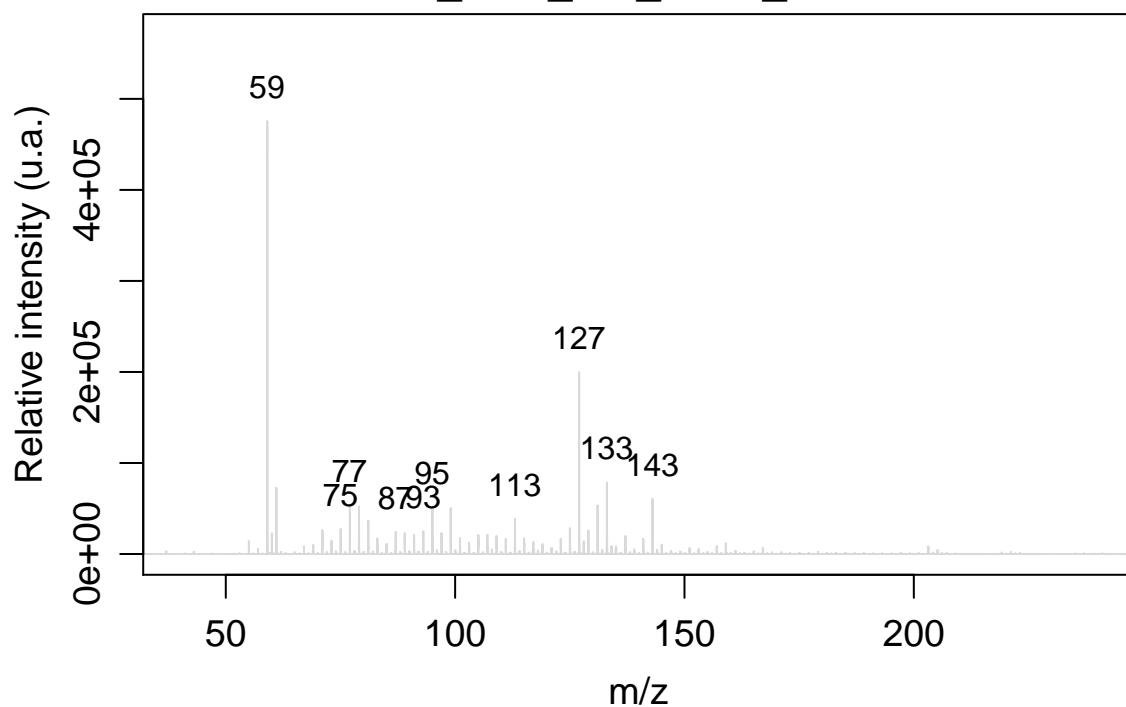
**s3\_Ch2\_!v8\_c096\_n381**



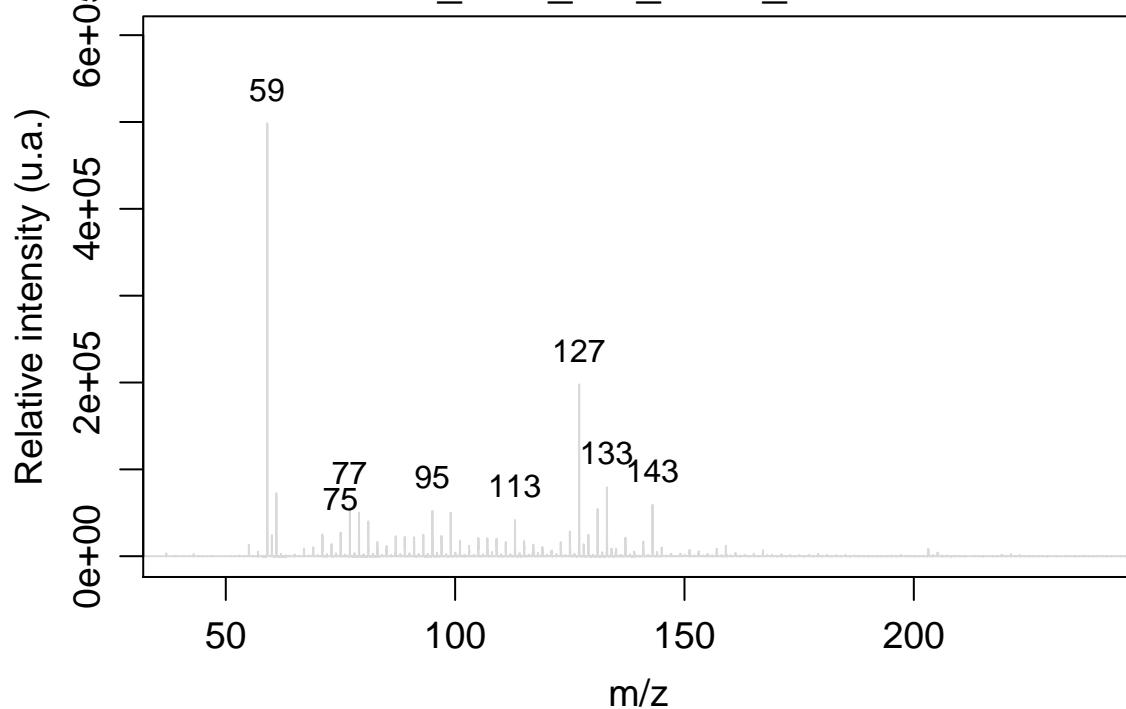
**s3\_Ch3\_!v9\_c028\_n110**



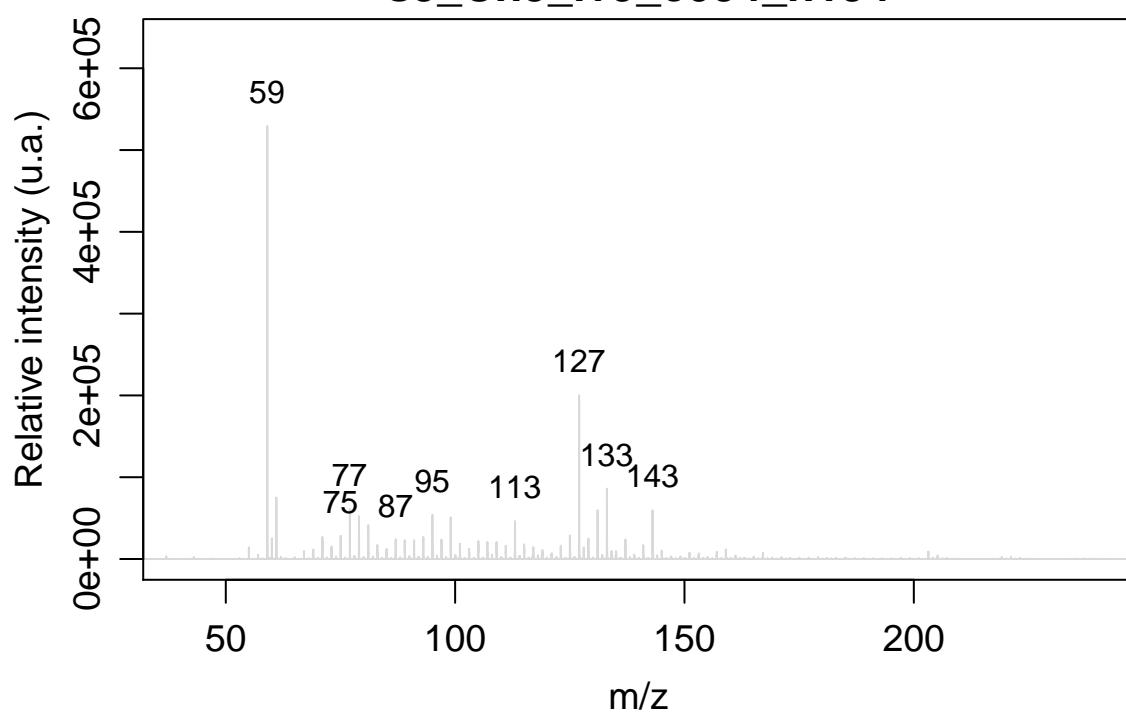
**s3\_Ch3\_!v9\_c030\_n118**



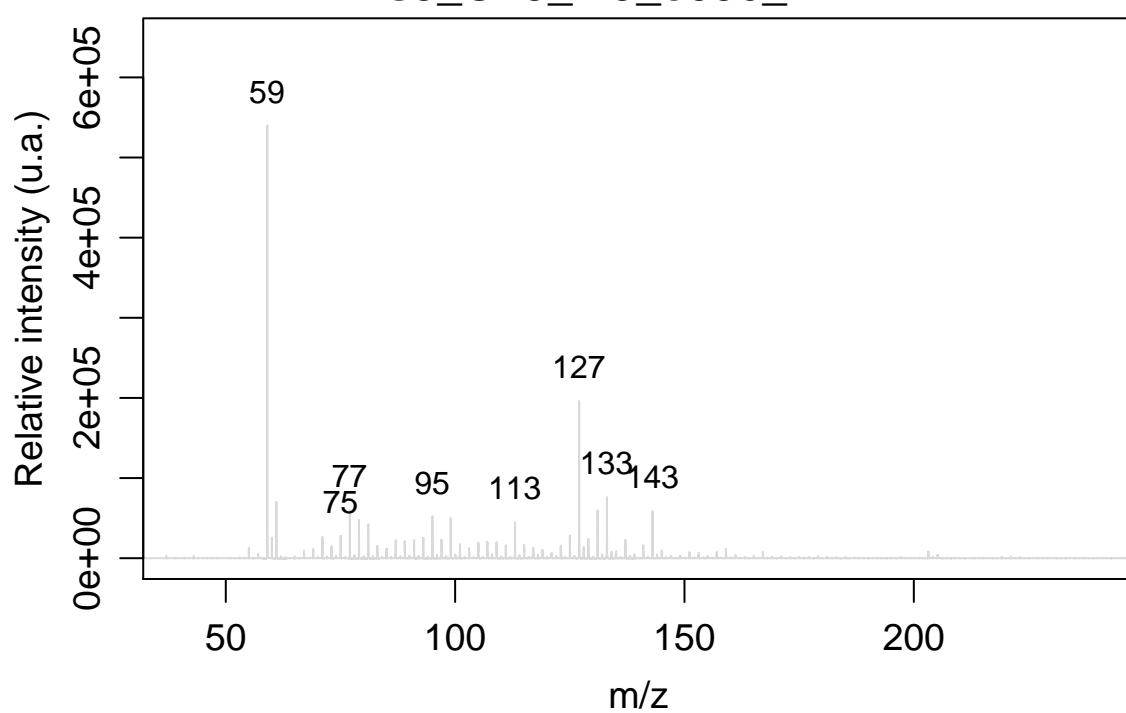
**s3\_Ch3\_!v9\_c032\_n126**



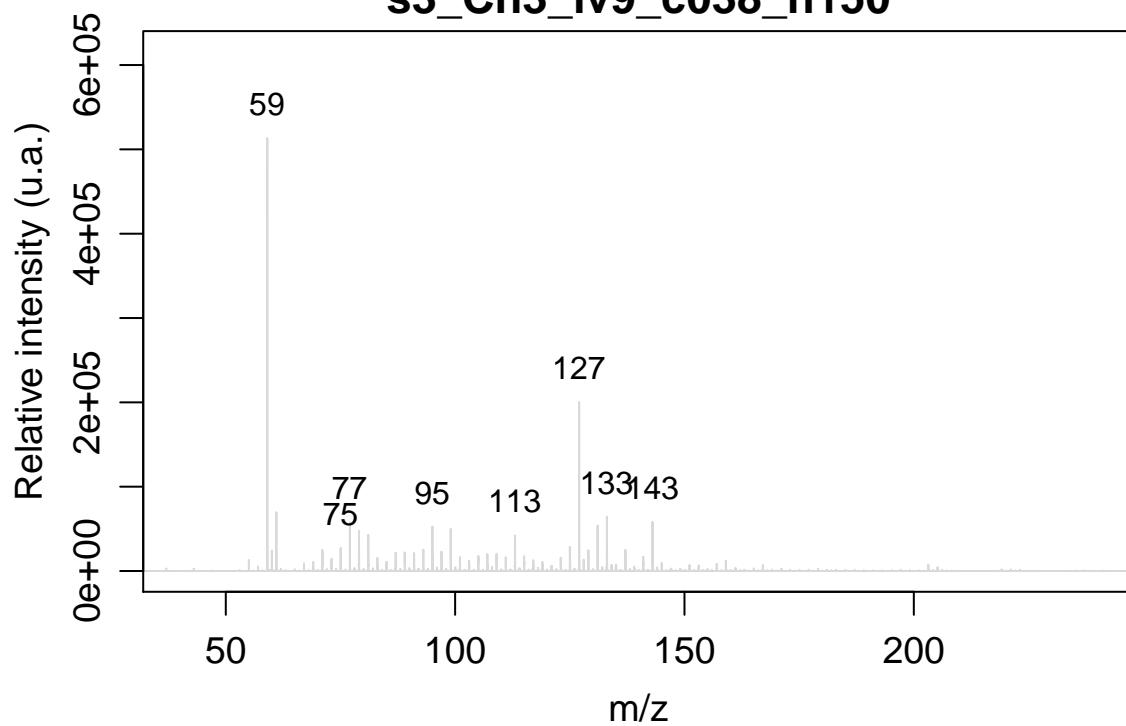
**s3\_Ch3\_!v9\_c034\_n134**



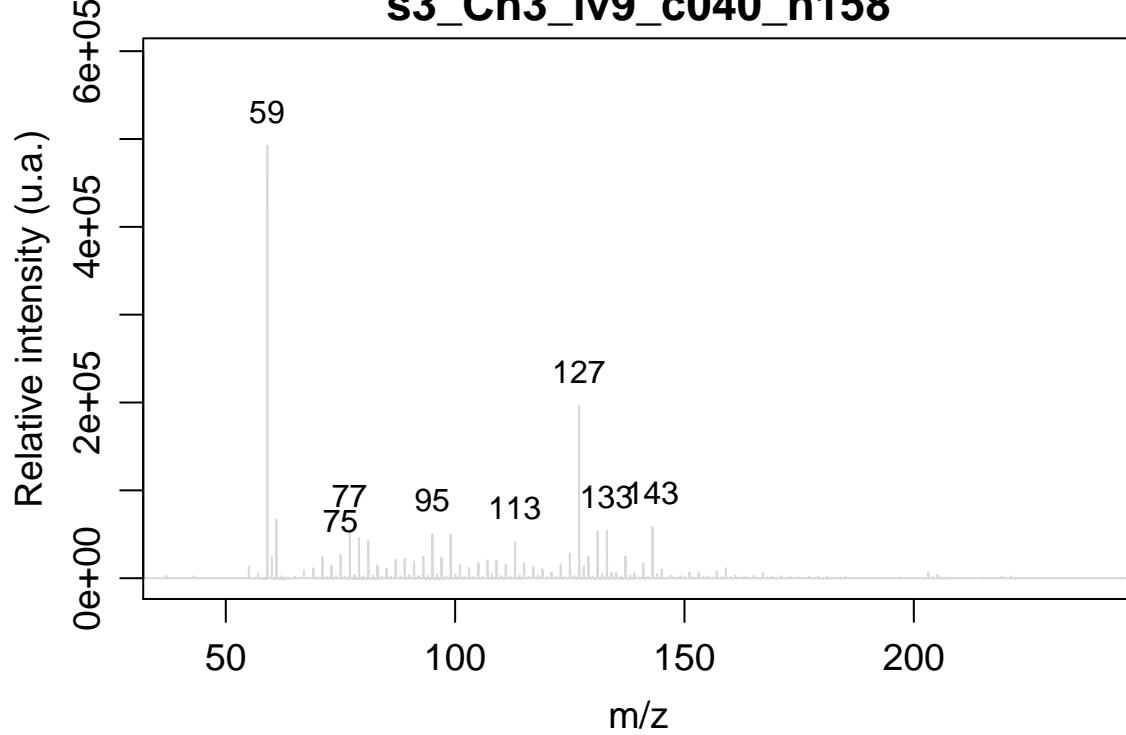
**s3\_Ch3\_!v9\_c036\_n142**



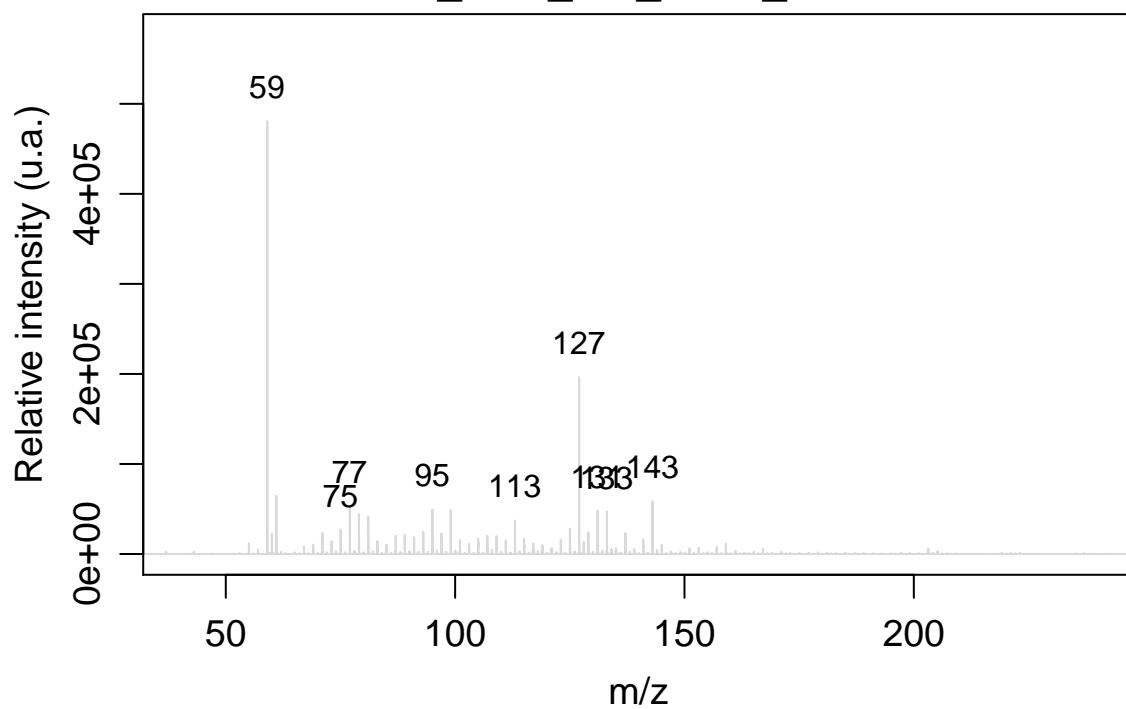
**s3\_Ch3\_!v9\_c038\_n150**



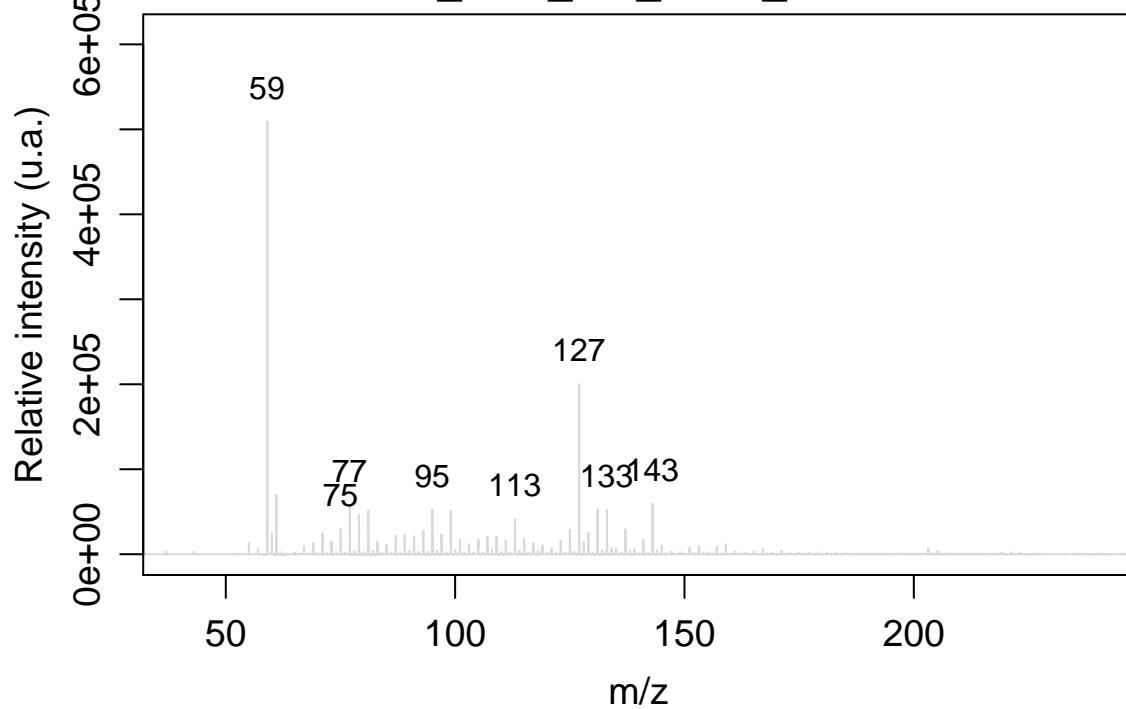
**s3\_Ch3\_!v9\_c040\_n158**



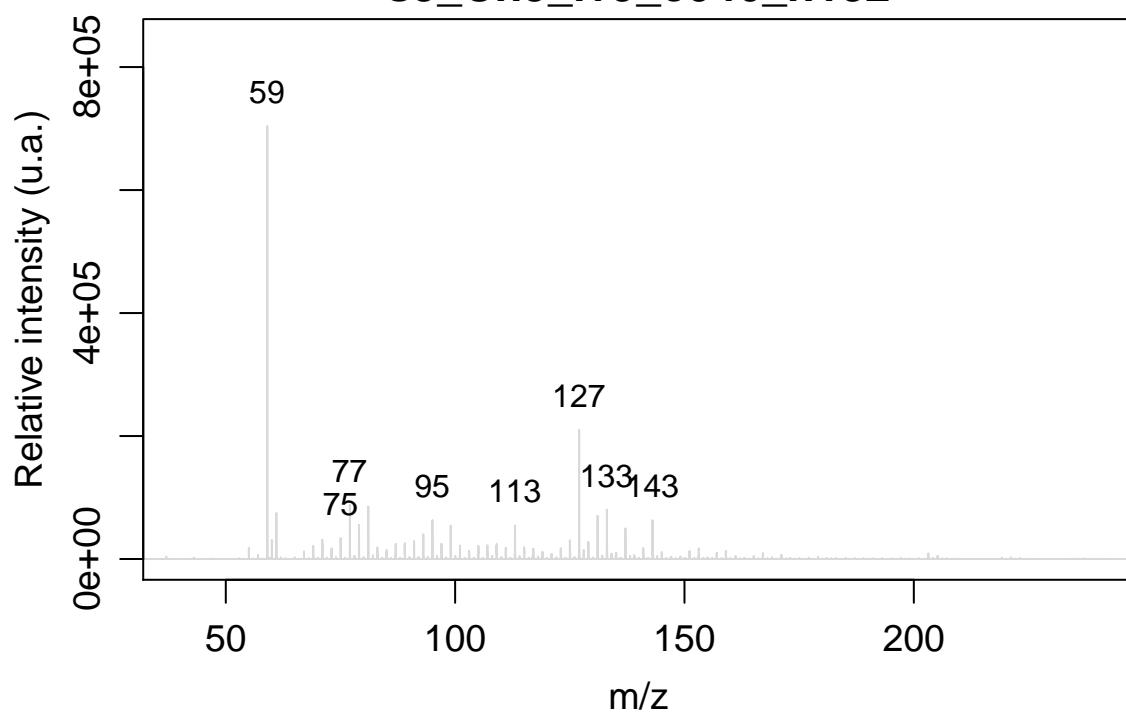
**s3\_Ch3\_!v9\_c042\_n166**



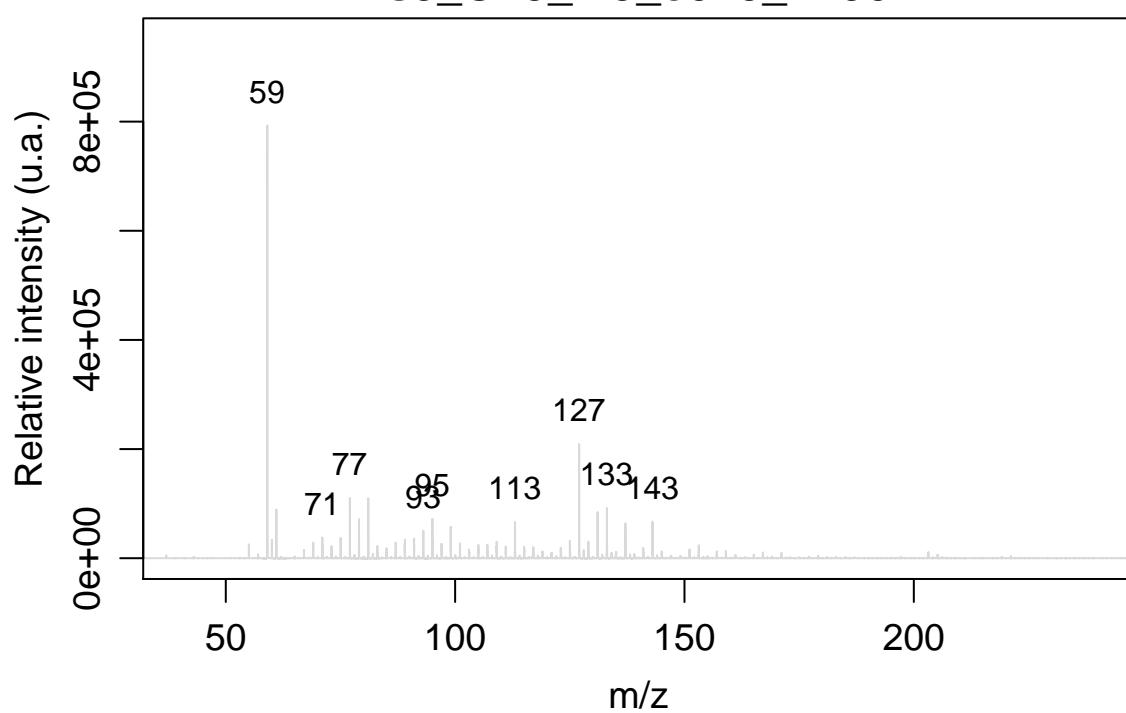
**s3\_Ch3\_!v9\_c044\_n174**



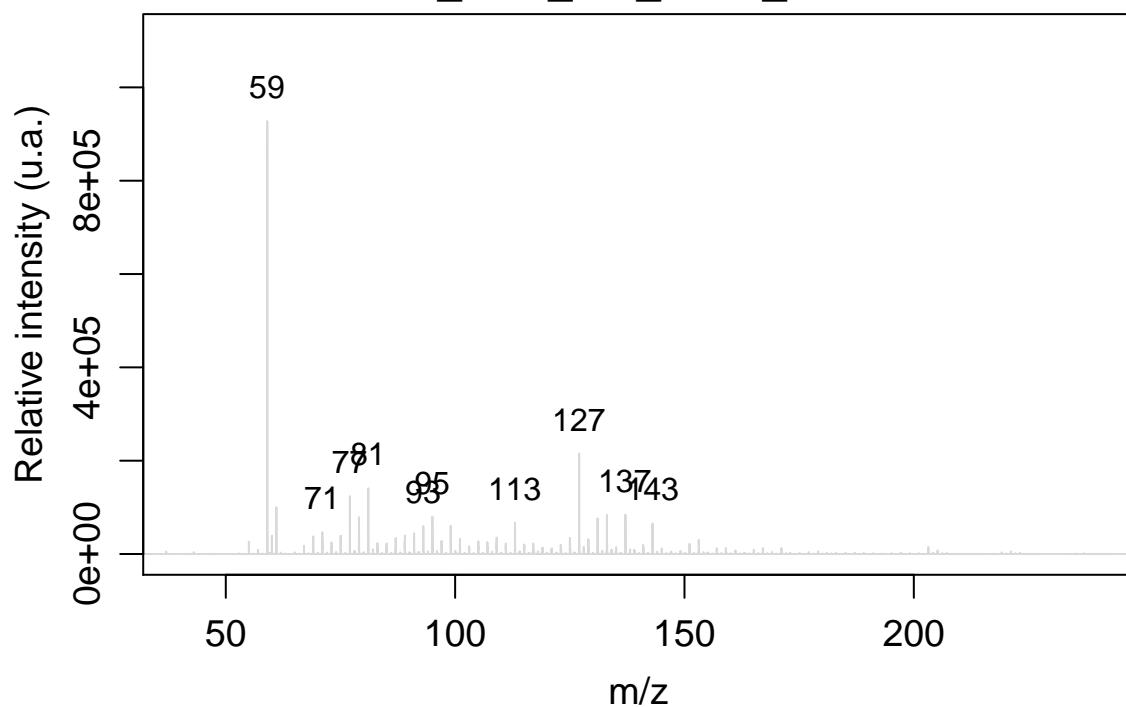
**s3\_Ch3\_!v9\_c046\_n182**



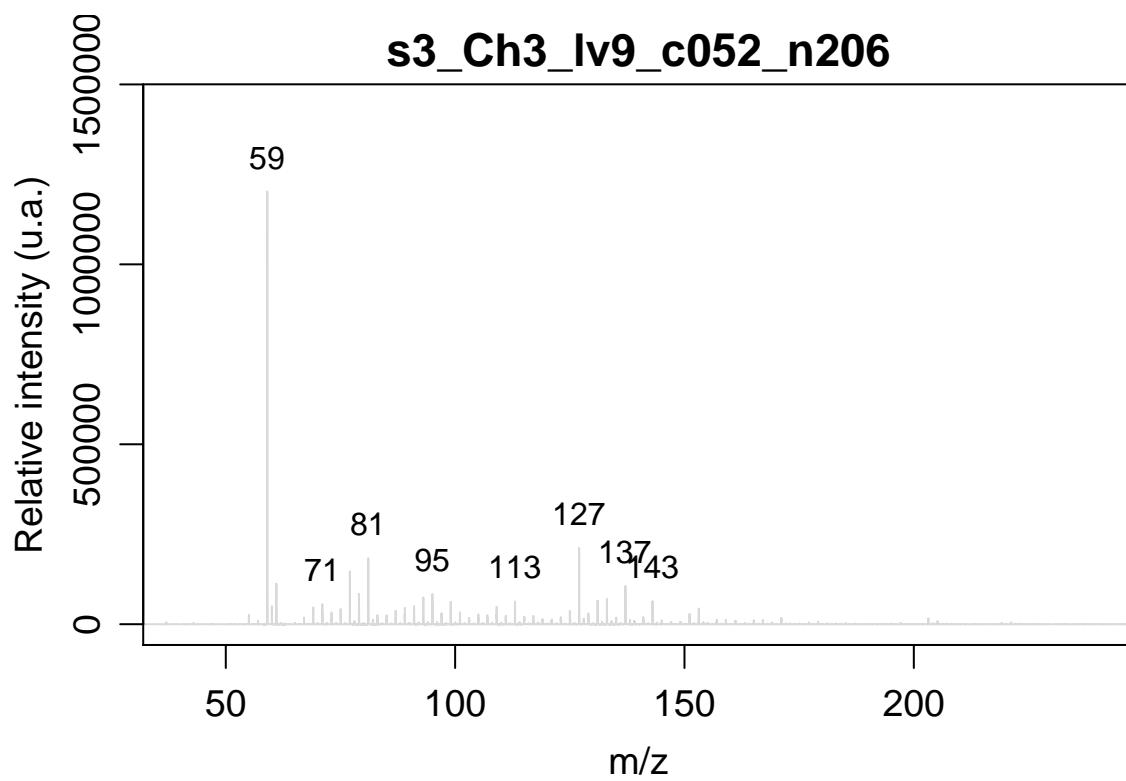
**s3\_Ch3\_!v9\_c048\_n190**



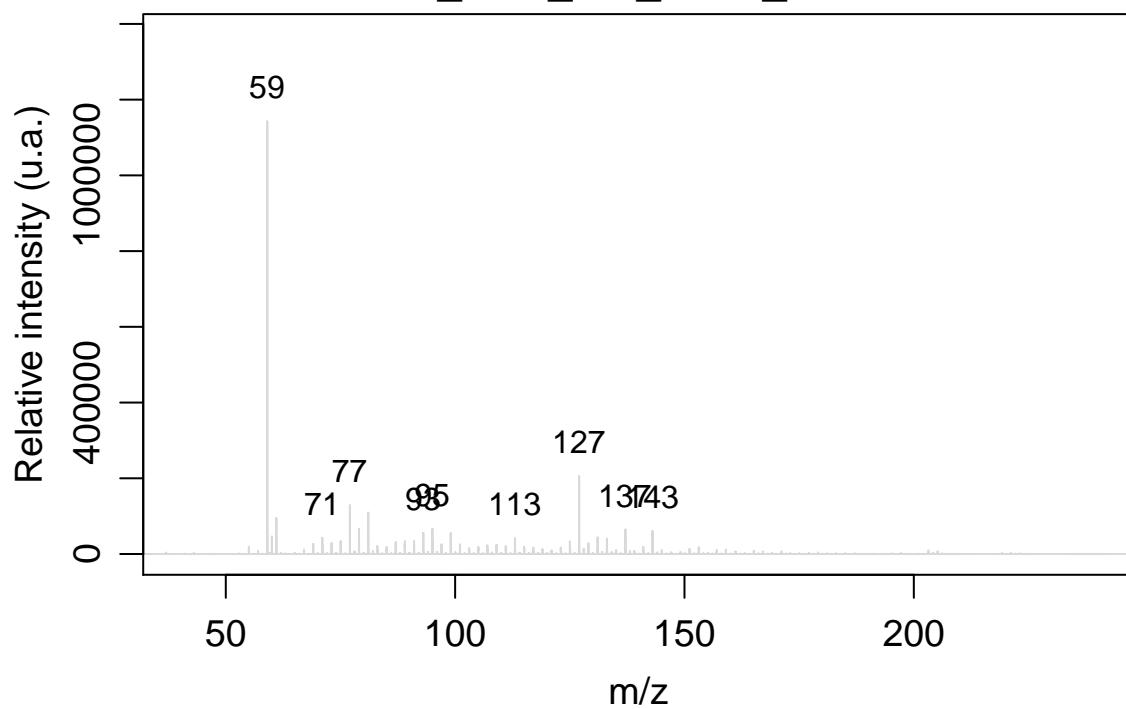
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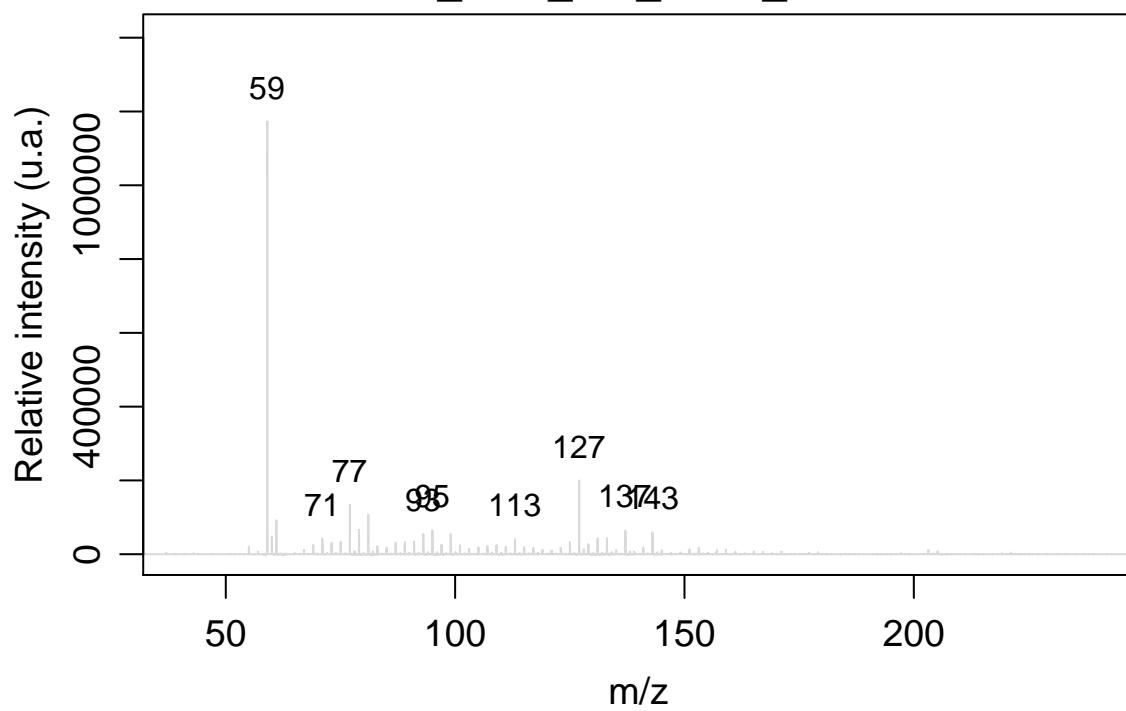
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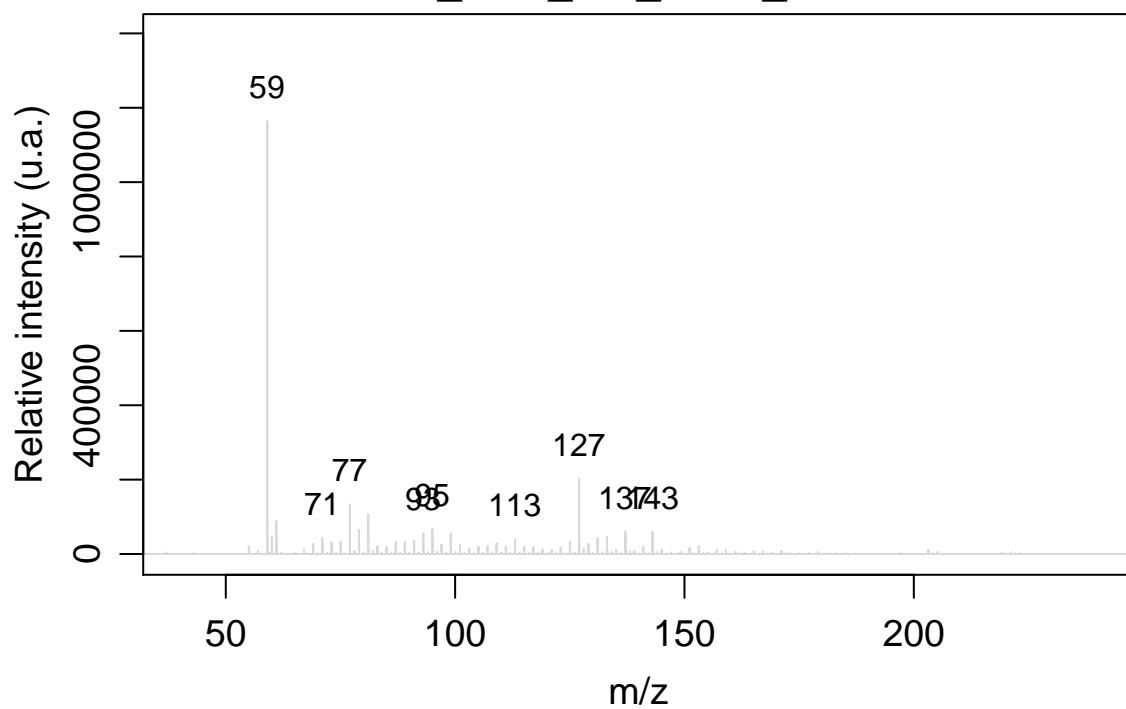
**s3\_Ch3\_!v9\_c054\_n214**



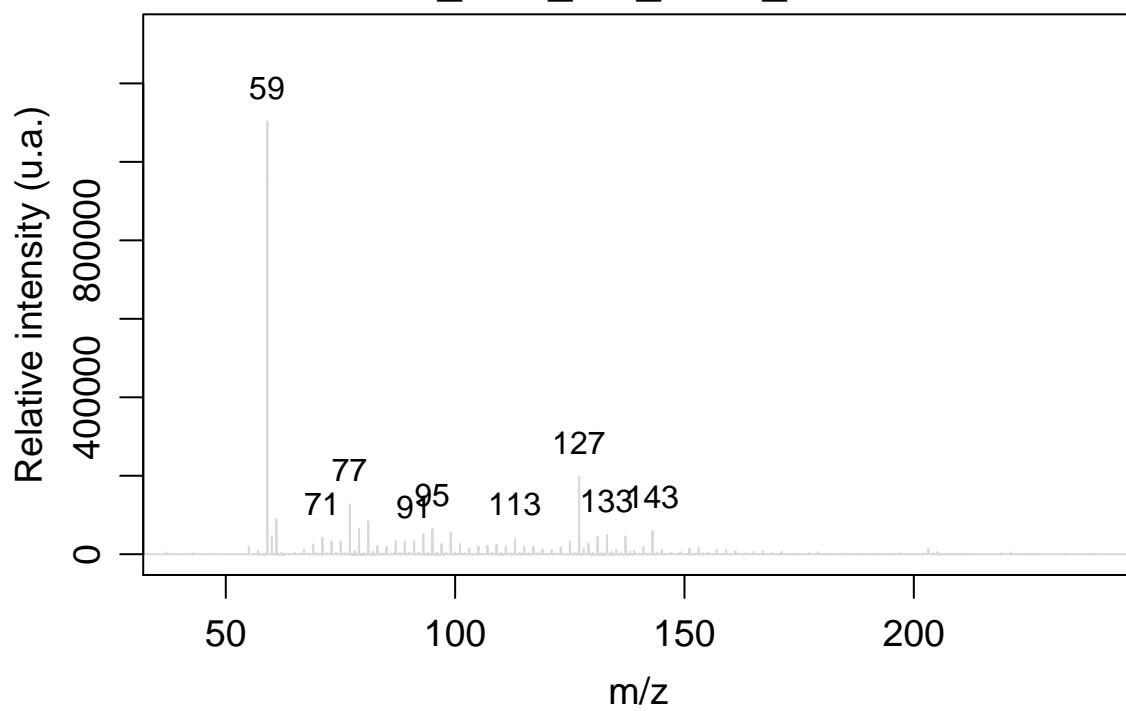
**s3\_Ch3\_!v9\_c056\_n222**



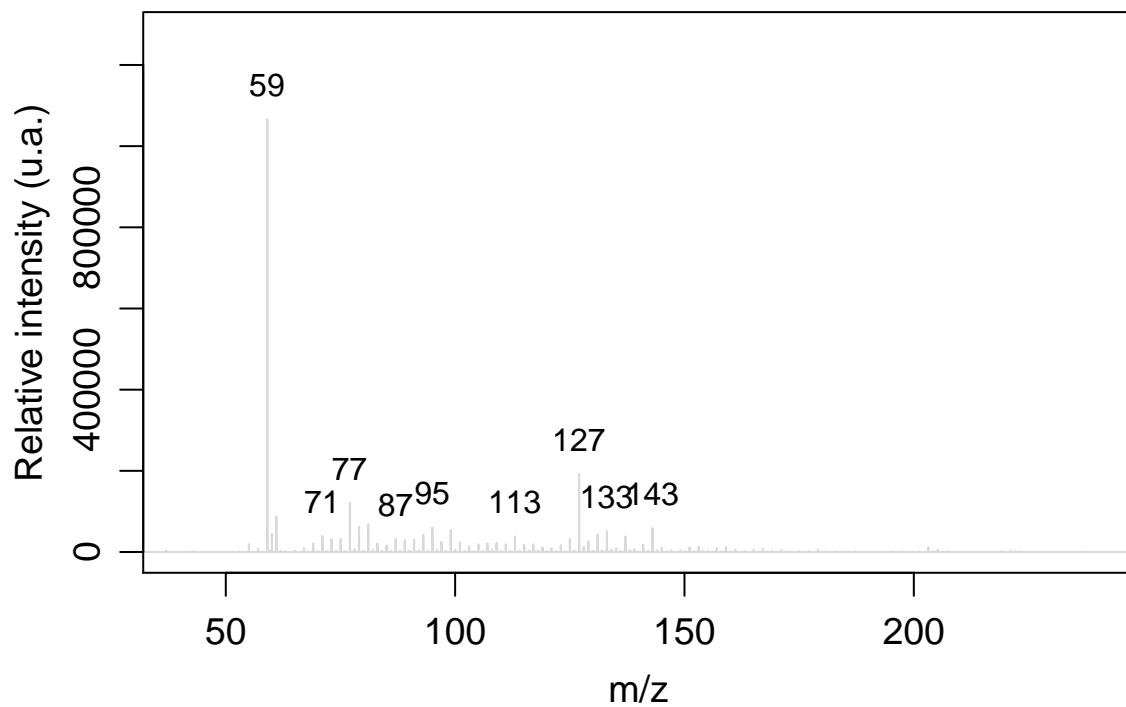
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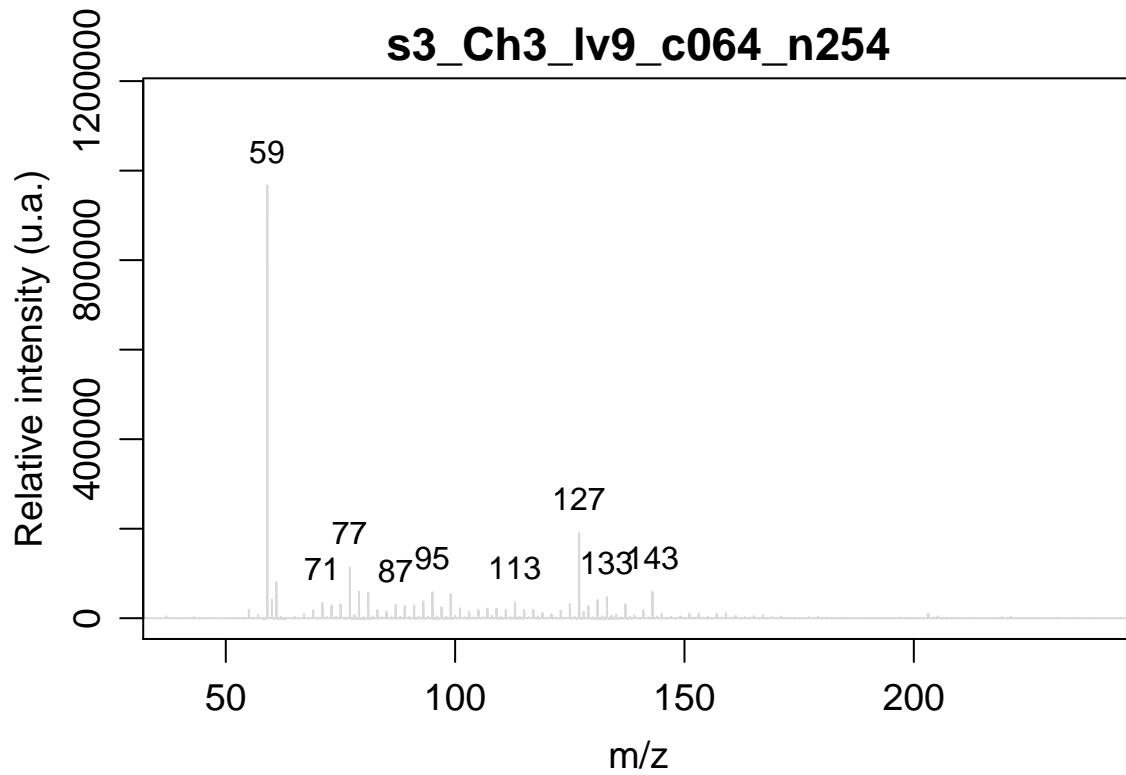
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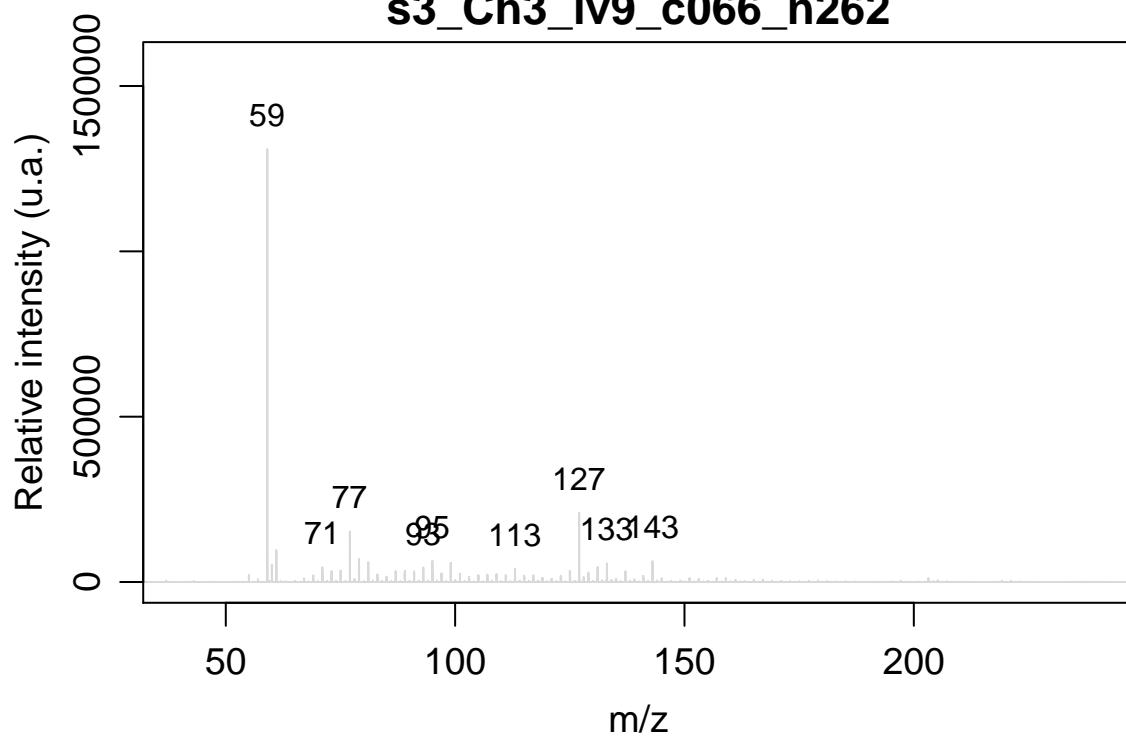
**s3\_Ch3\_!v9\_c062\_n246**



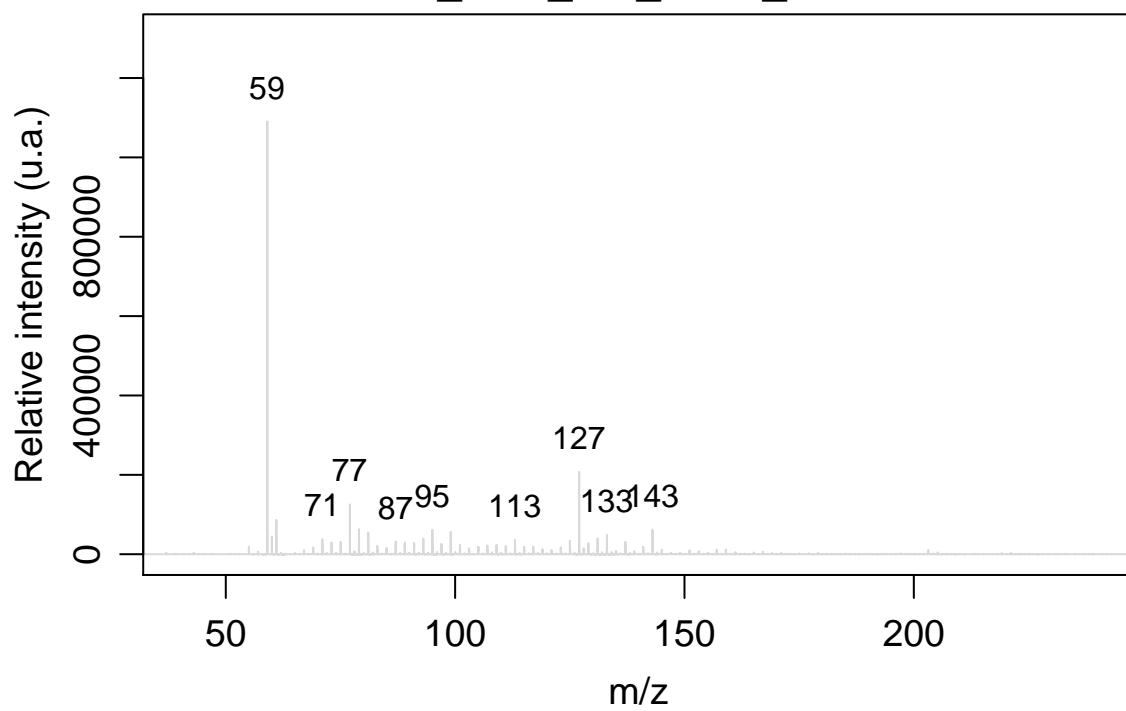
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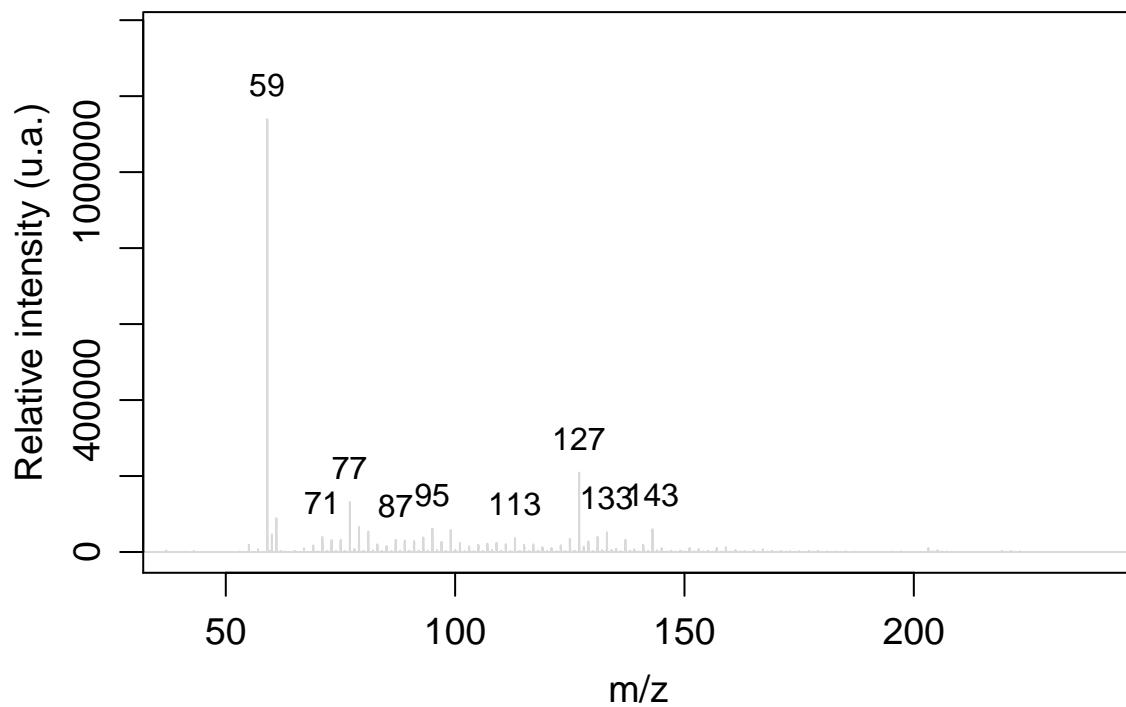
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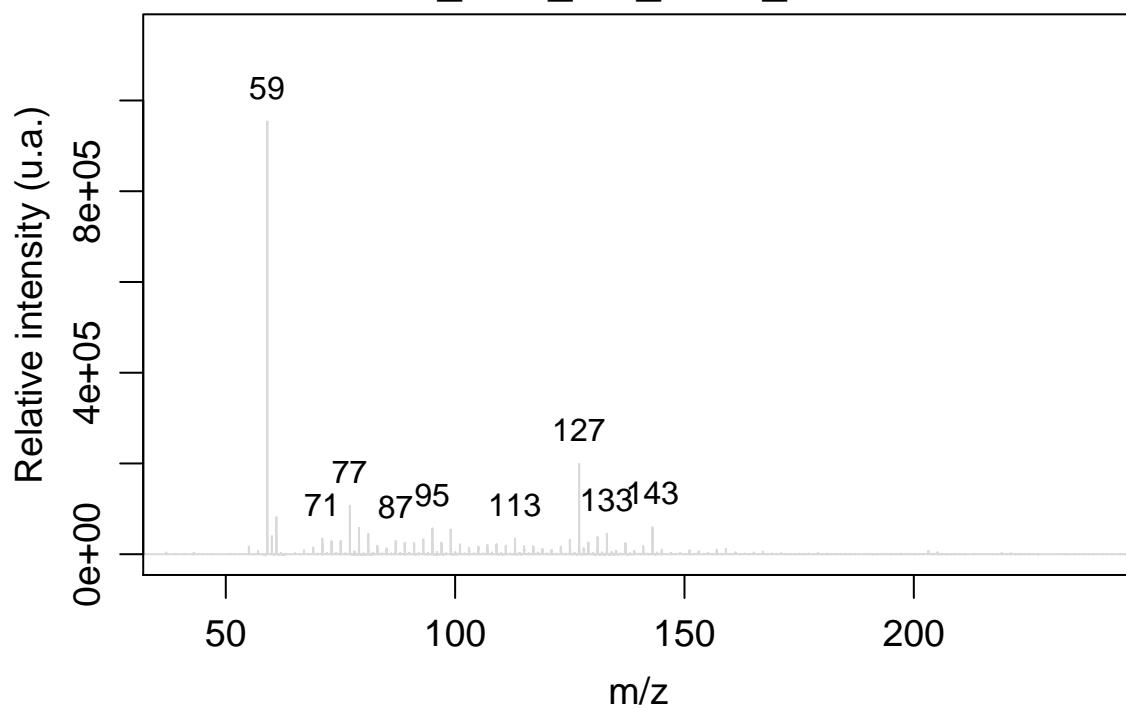
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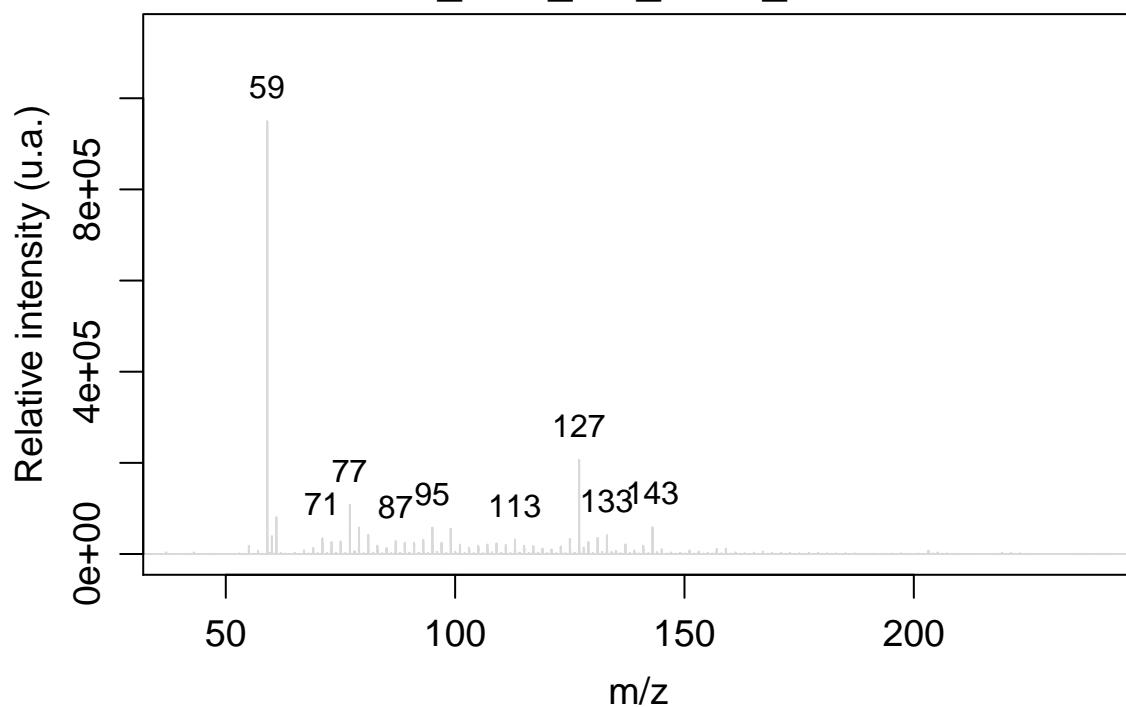
**s3\_Ch3\_!v9\_c070\_n278**



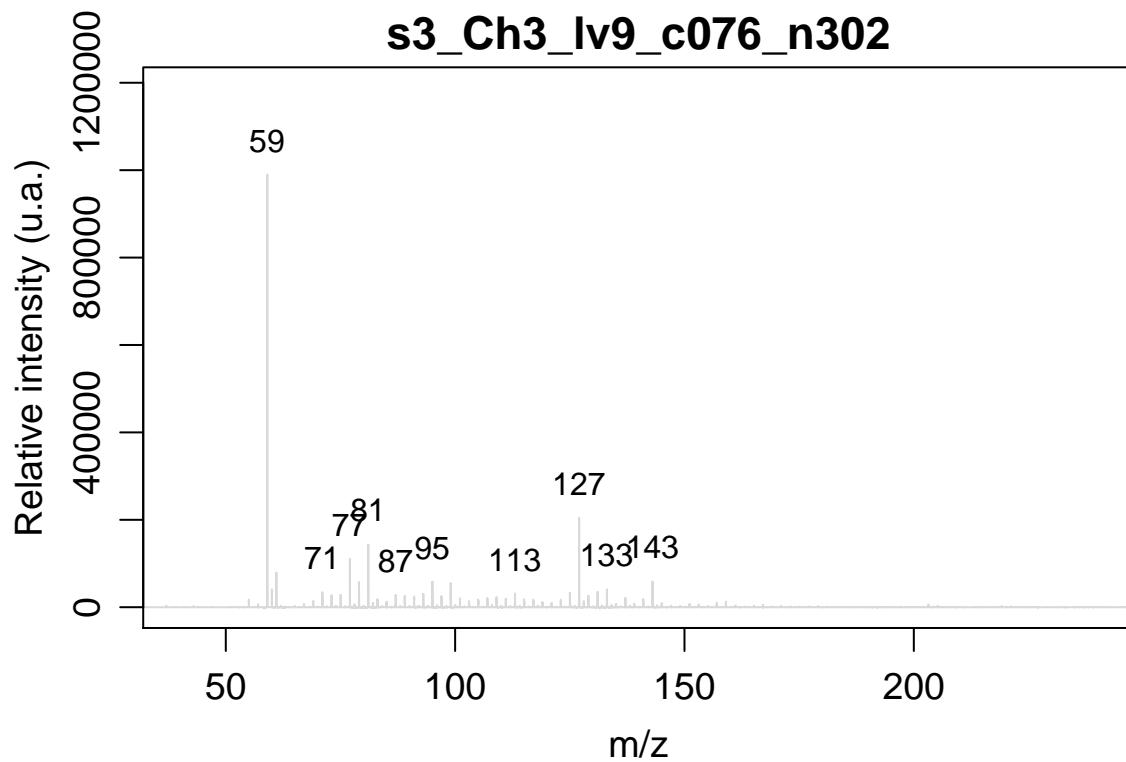
**s3\_Ch3\_!v9\_c072\_n286**



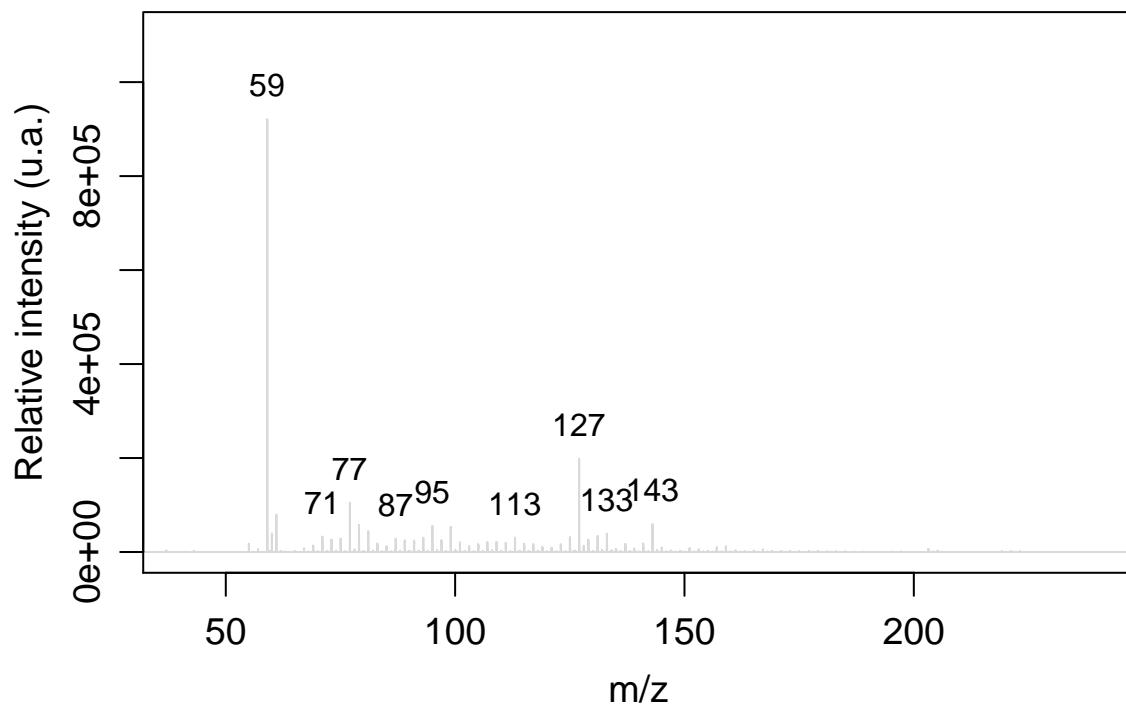
**s3\_Ch3\_!v9\_c074\_n294**



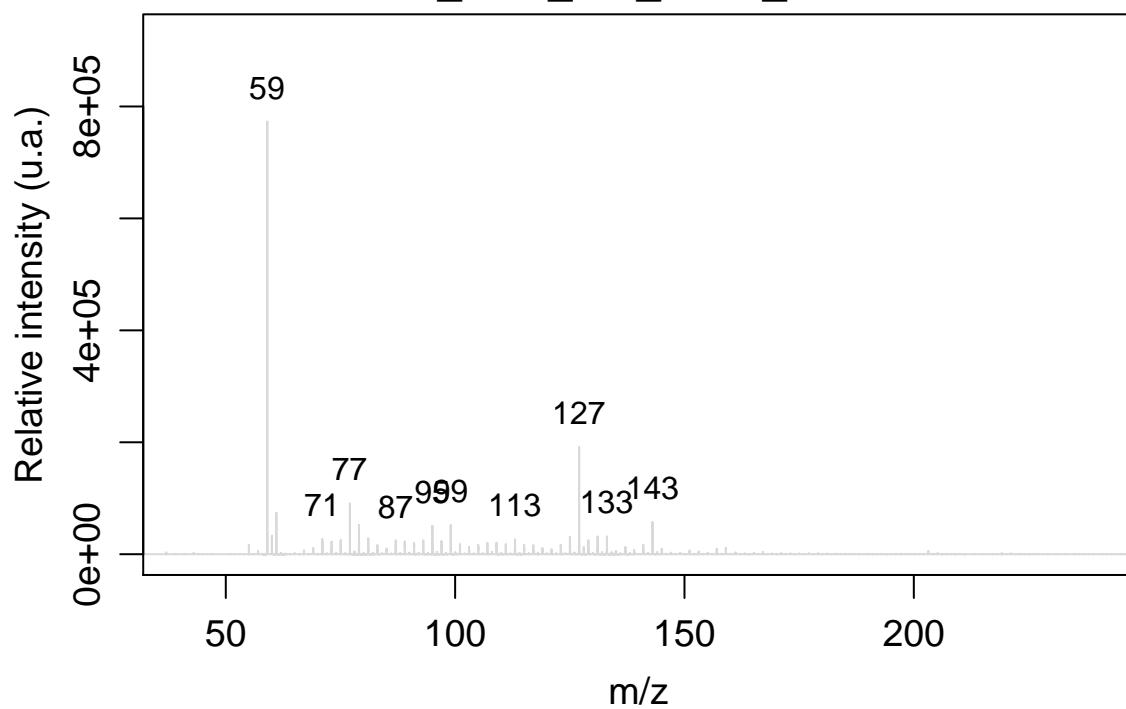
**s3\_Ch3\_!v9\_c076\_n302**



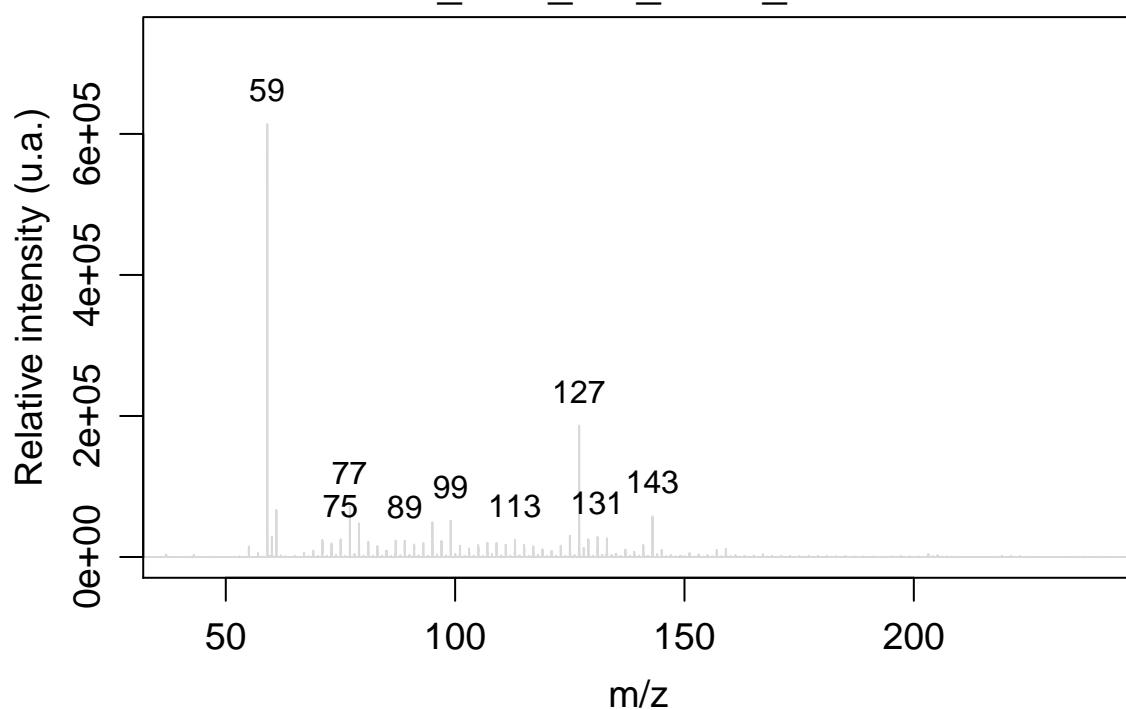
**s3\_Ch3\_!v9\_c078\_n310**



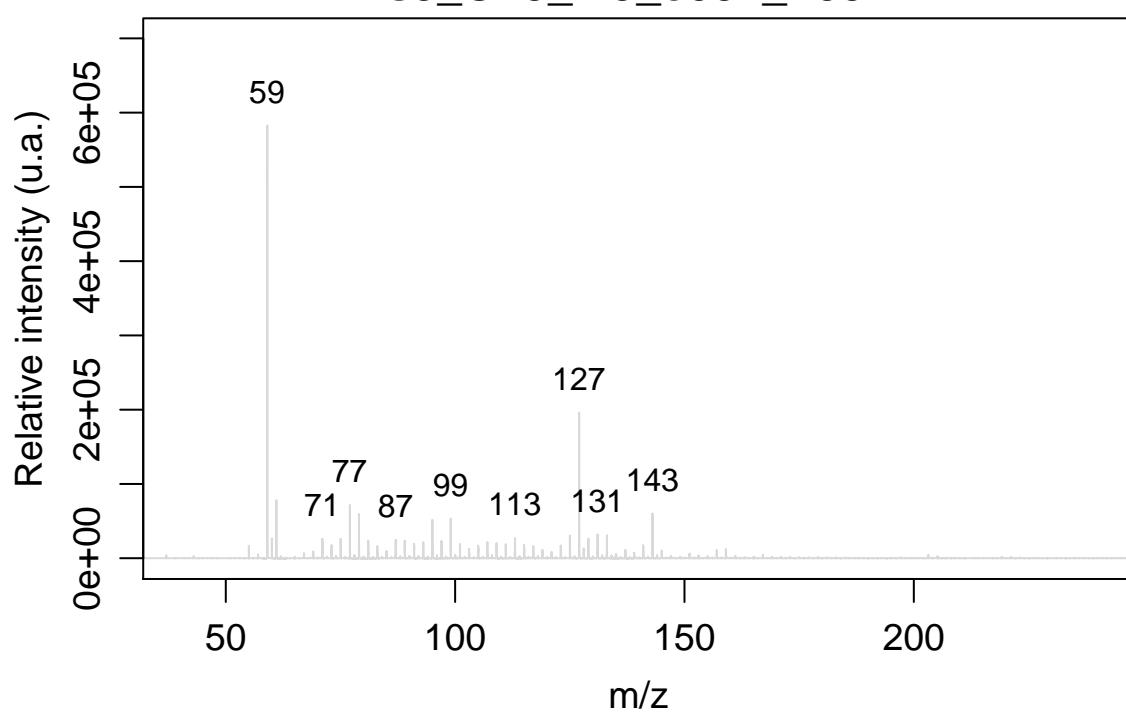
**s3\_Ch3\_!v9\_c080\_n318**



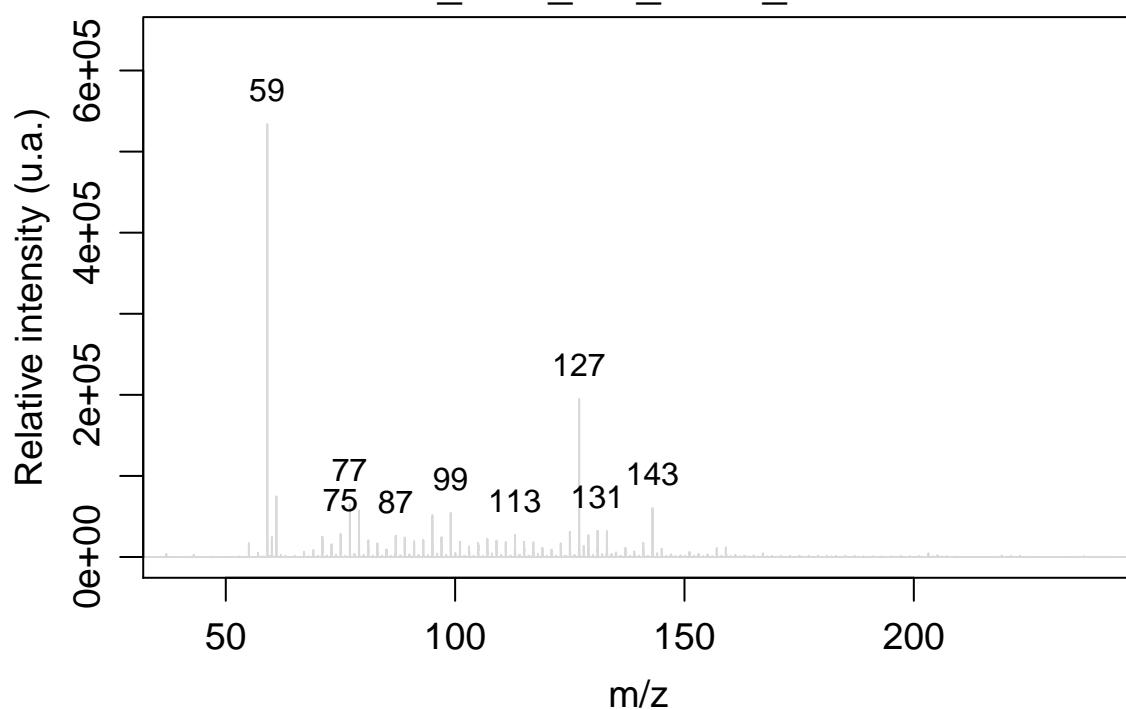
**s3\_Ch3\_!v9\_c082\_n326**



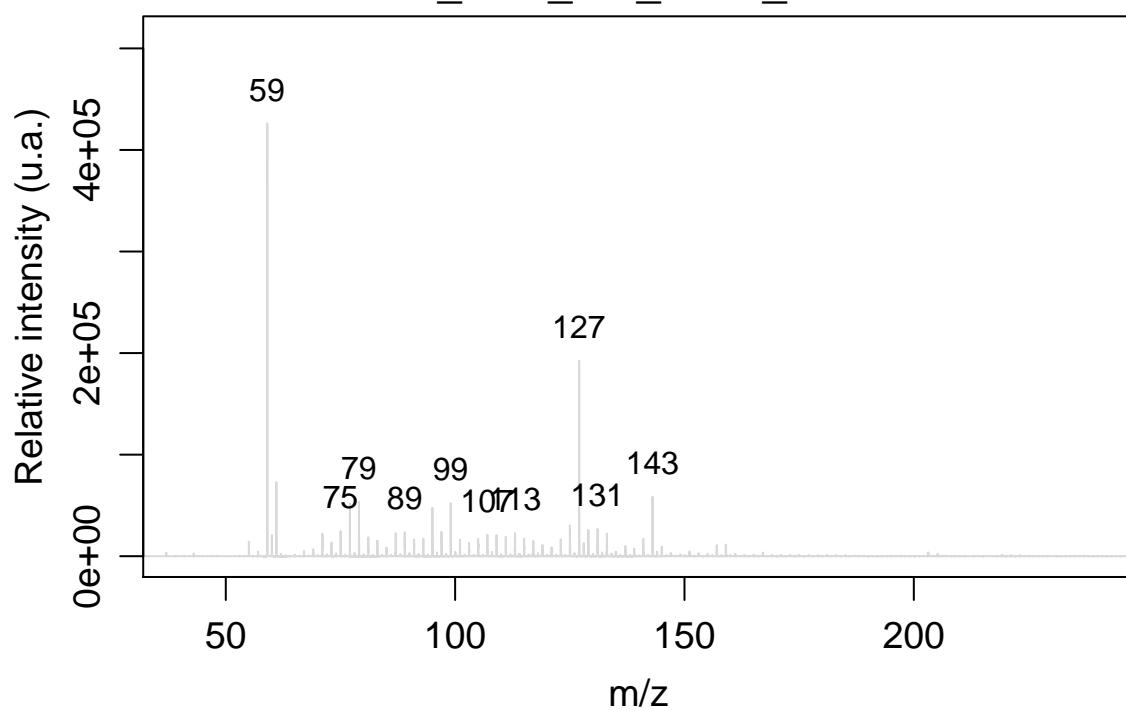
**s3\_Ch3\_!v9\_c084\_n334**



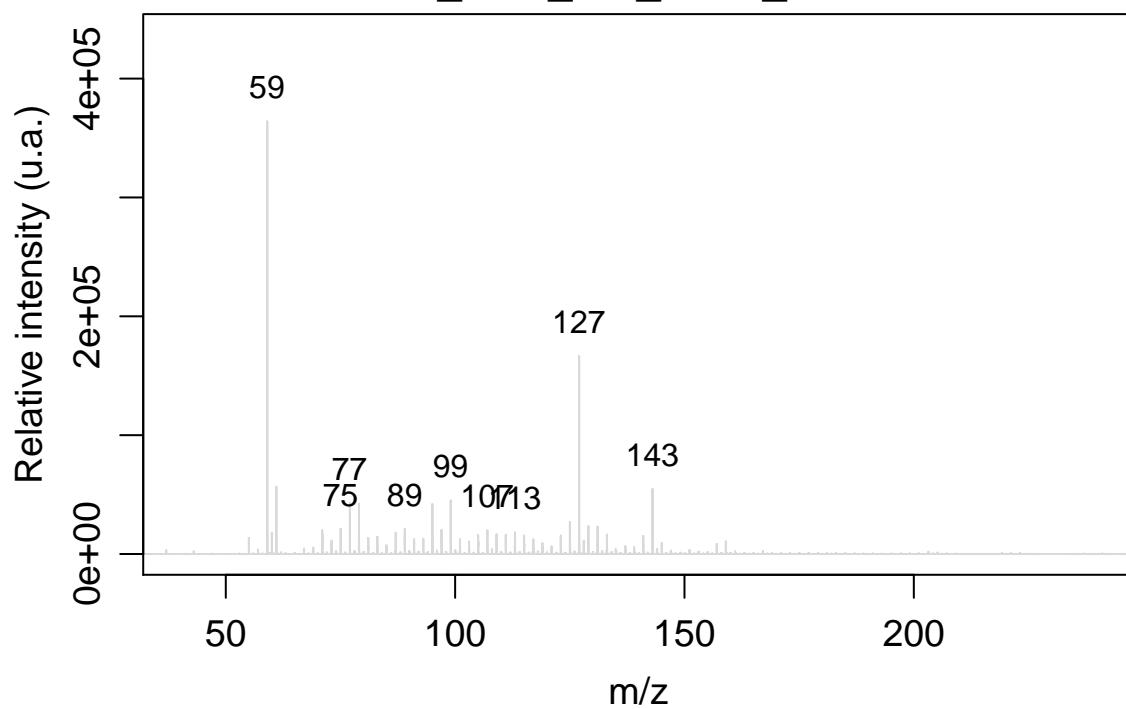
**s3\_Ch3\_1v9\_c086\_n342**



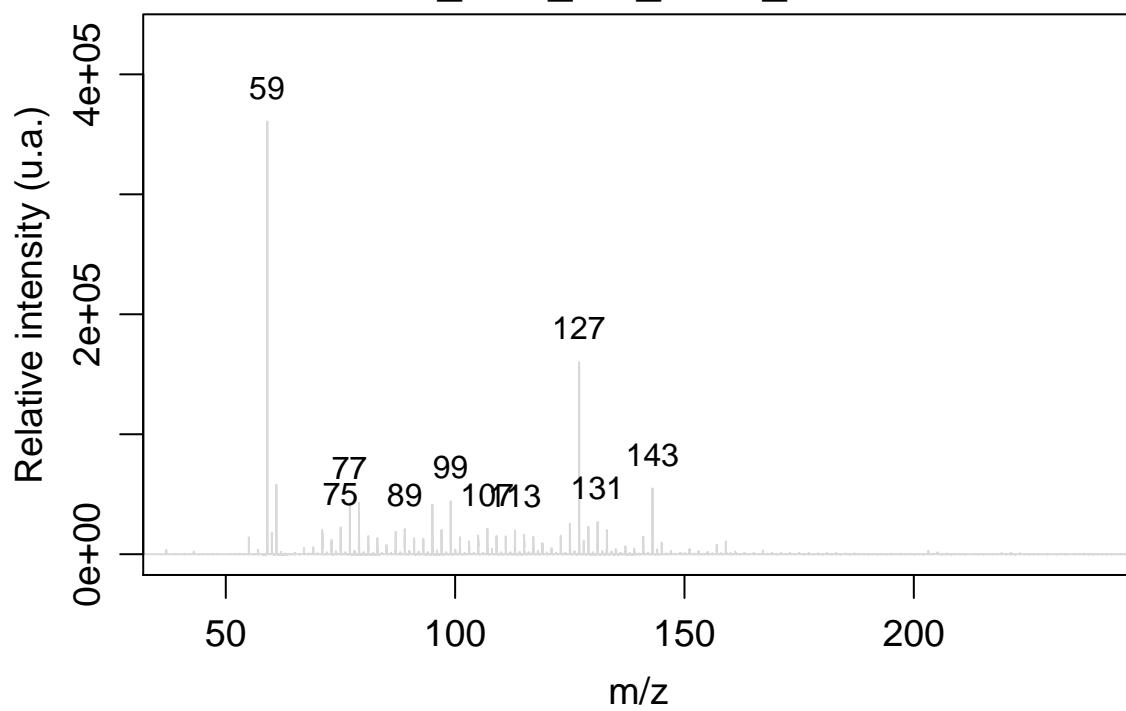
**s3\_Ch3\_1v9\_c088\_n350**



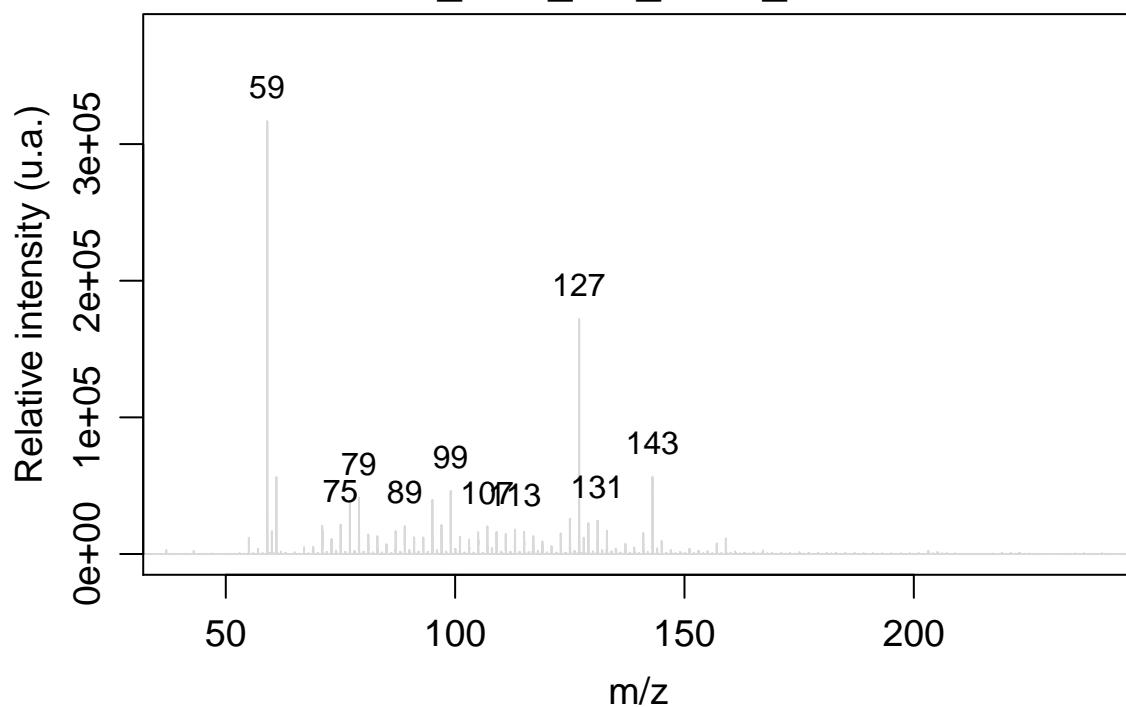
**s3\_Ch3\_!v9\_c090\_n358**



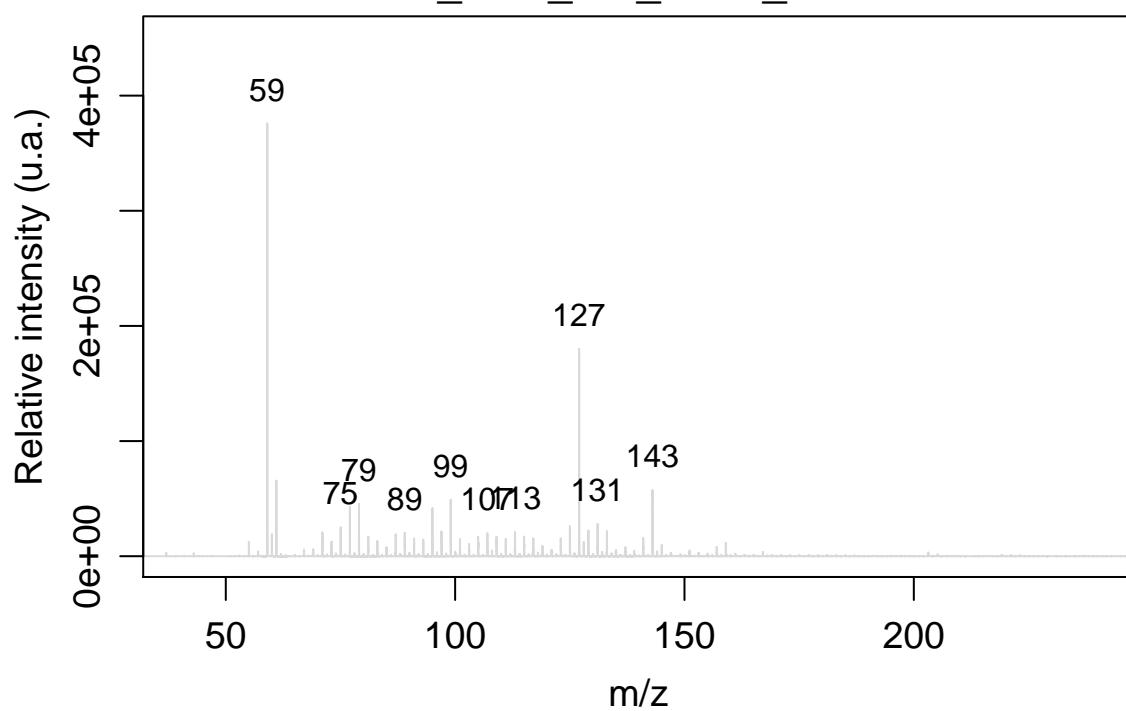
**s3\_Ch3\_!v9\_c092\_n366**



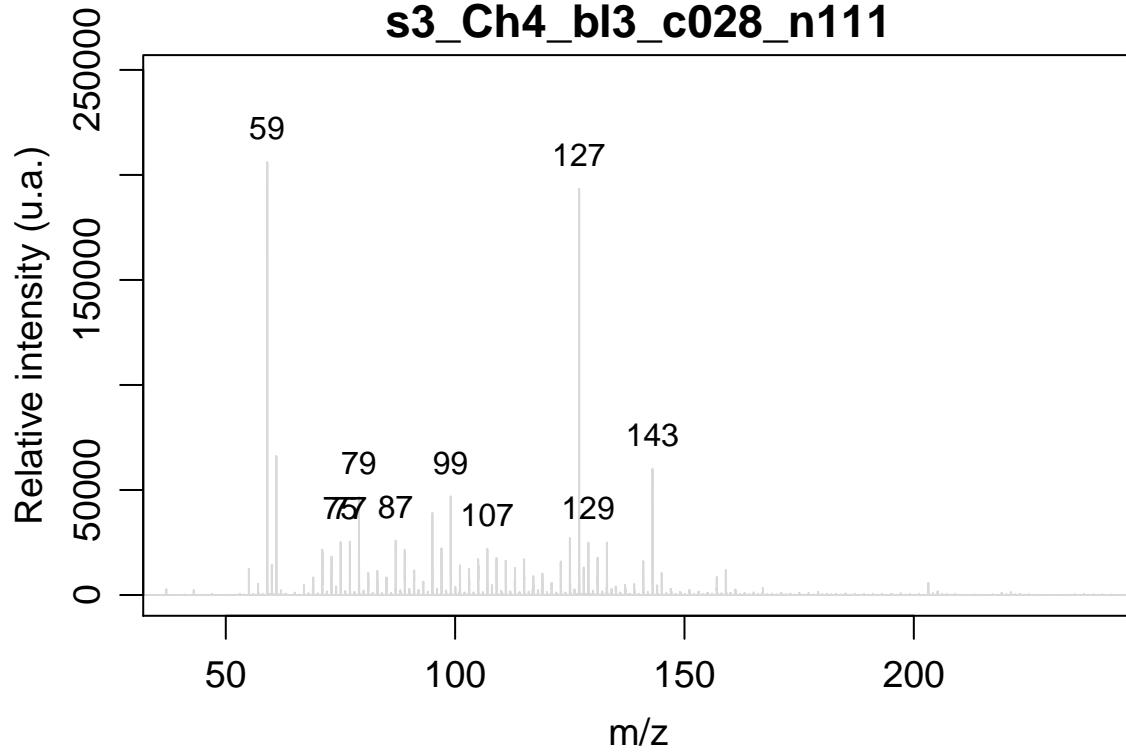
**s3\_Ch3\_!v9\_c094\_n374**



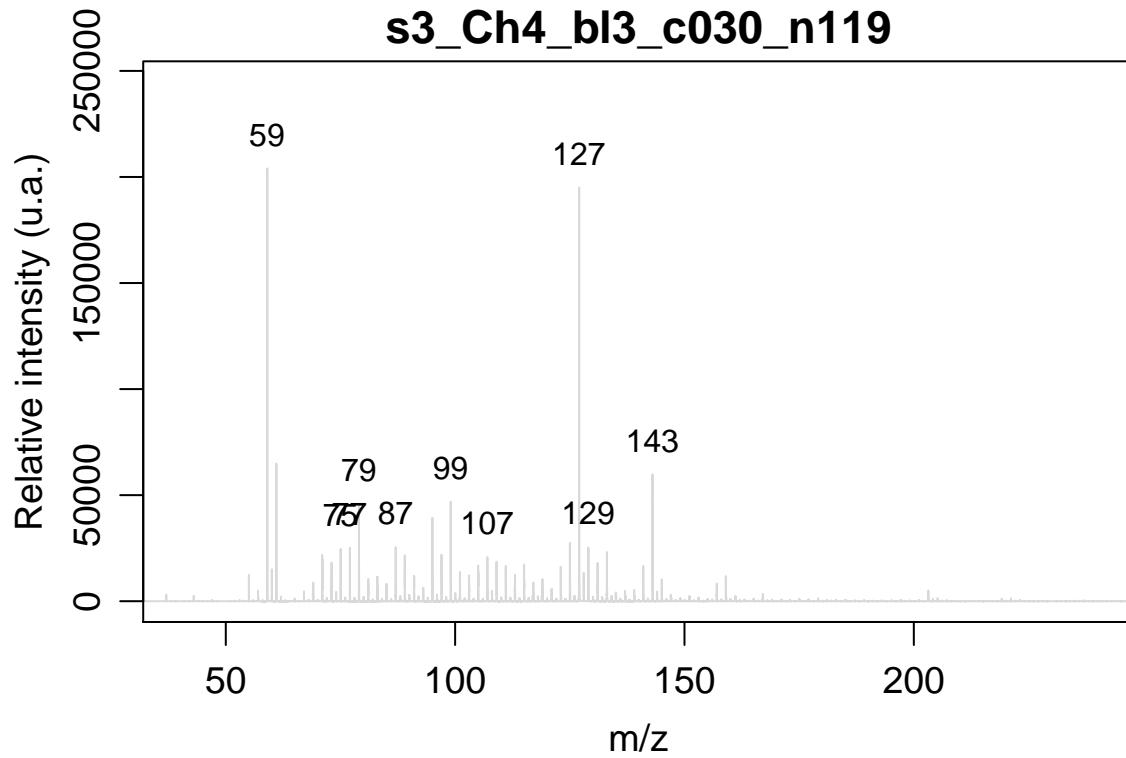
**s3\_Ch3\_!v9\_c096\_n382**



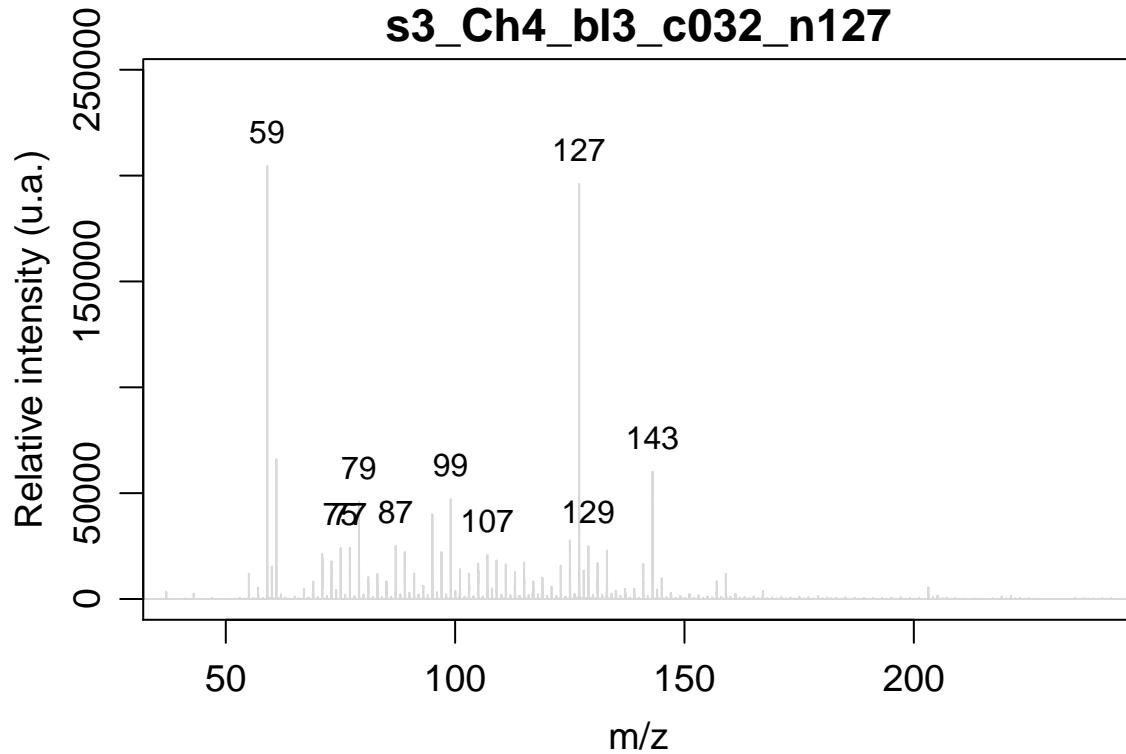
**s3\_Ch4\_b13\_c028\_n111**



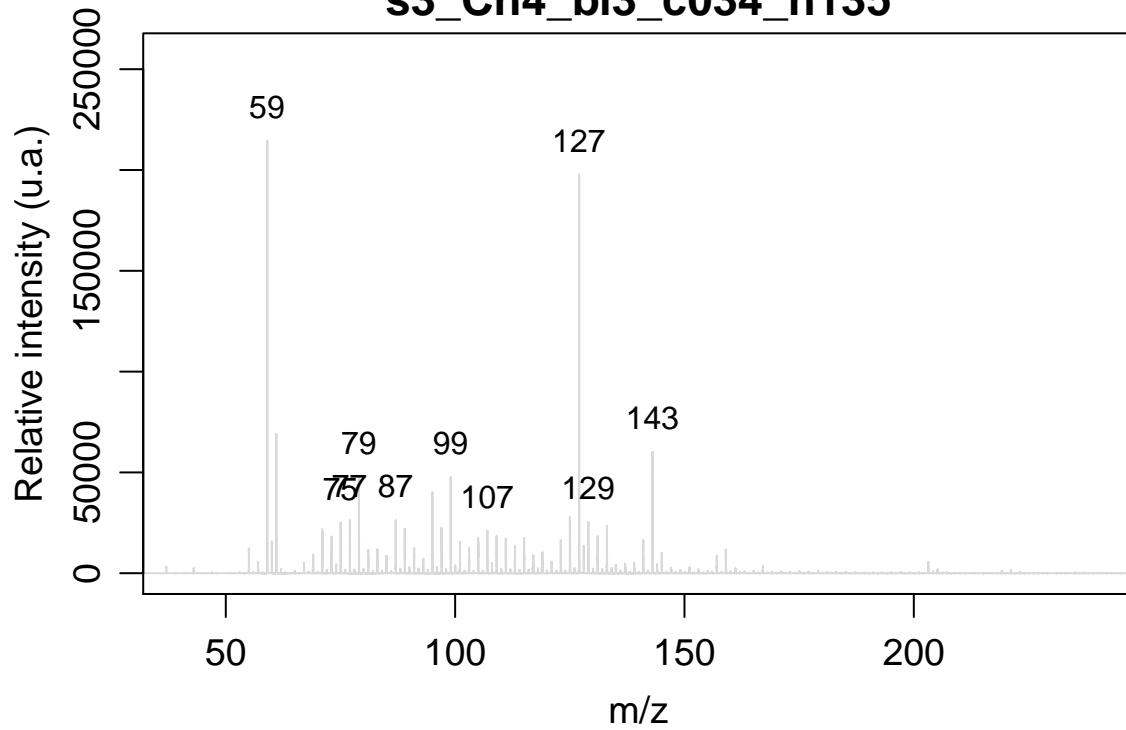
**s3\_Ch4\_b13\_c030\_n119**



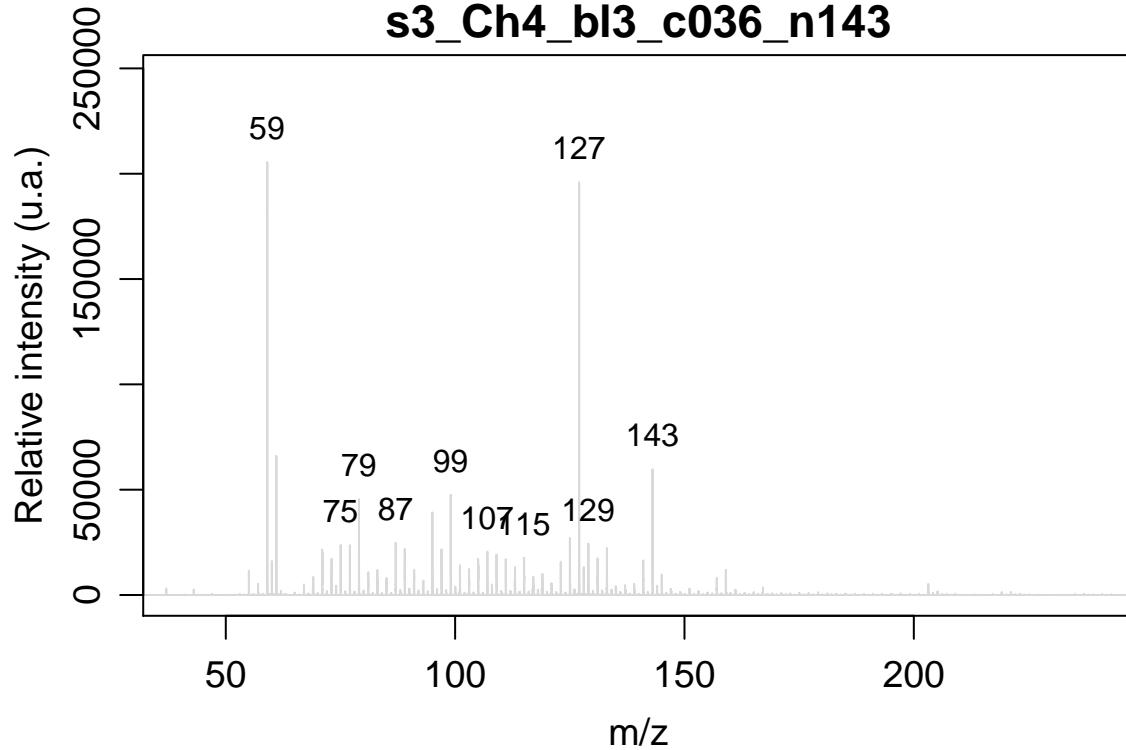
**s3\_Ch4\_b13\_c032\_n127**



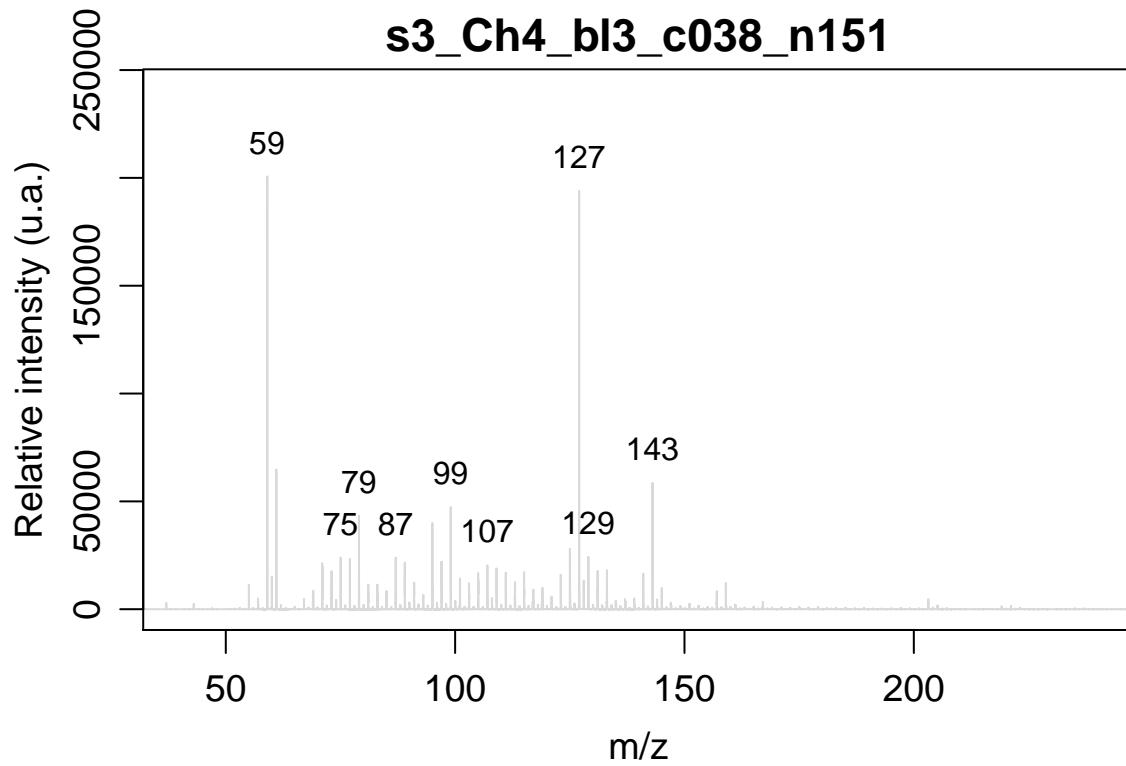
**s3\_Ch4\_b13\_c034\_n135**



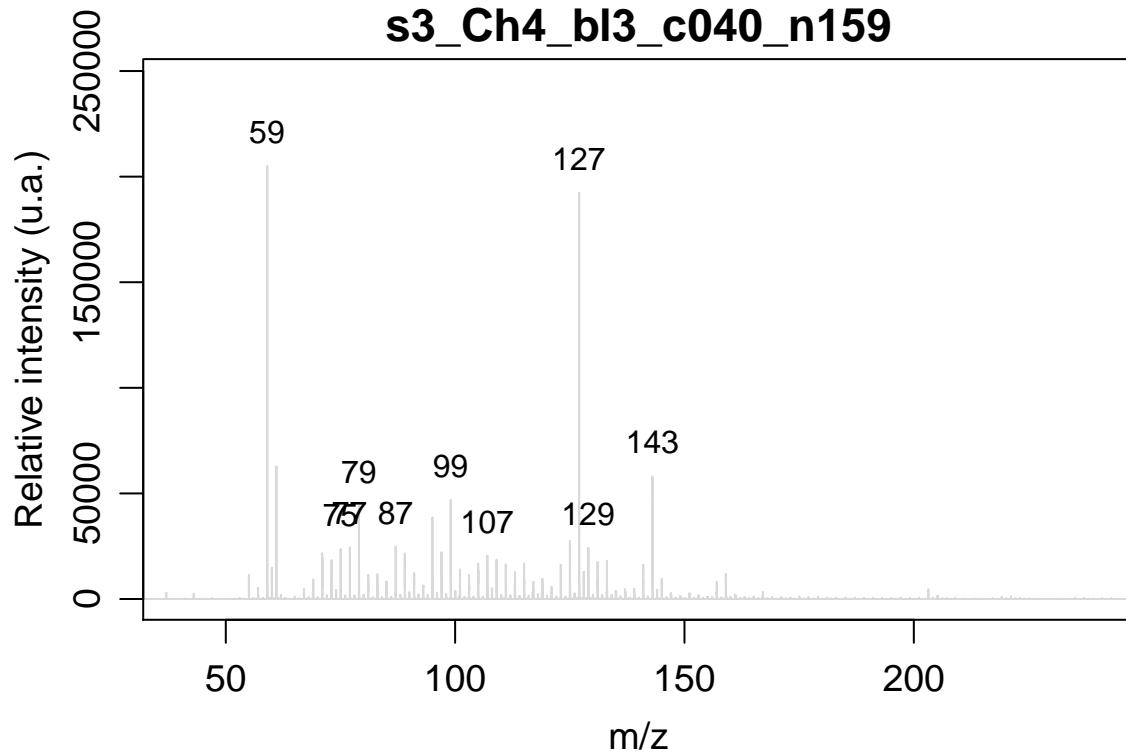
**s3\_Ch4\_b13\_c036\_n143**



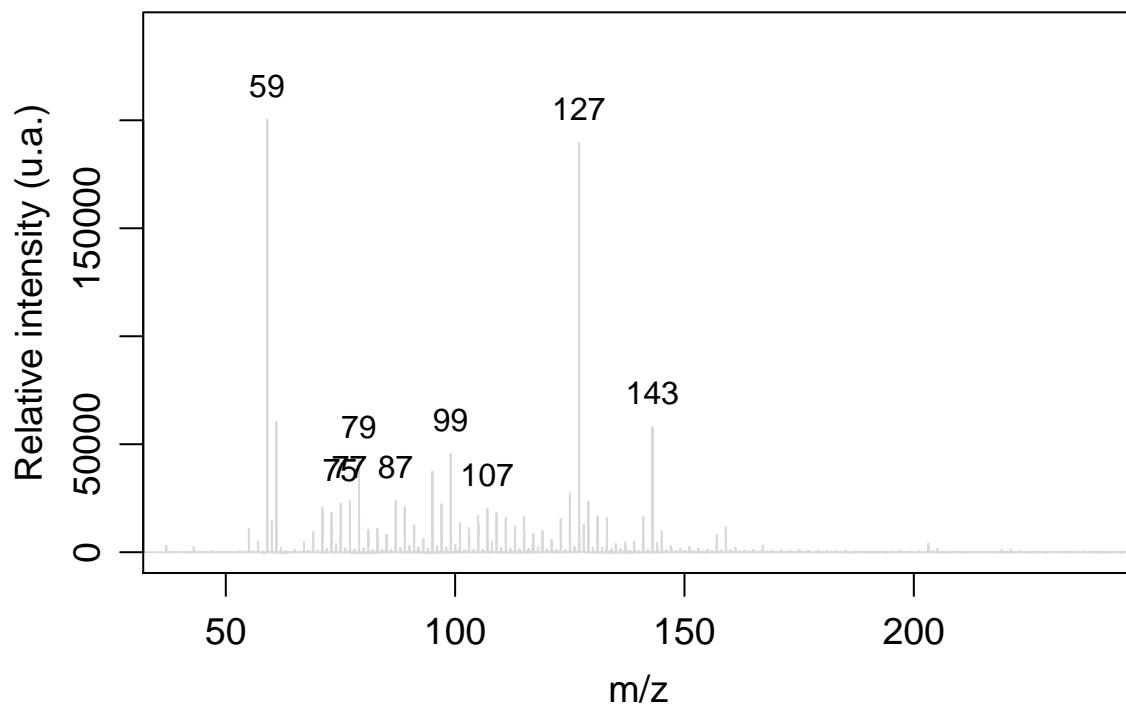
**s3\_Ch4\_b13\_c038\_n151**



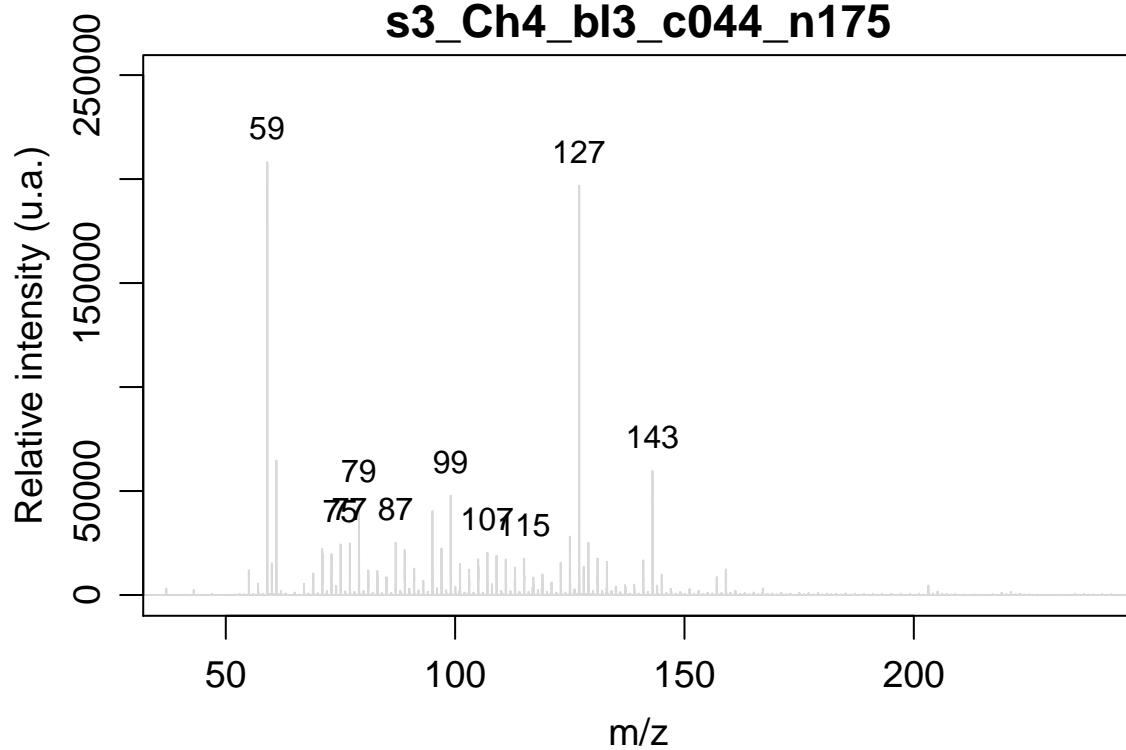
**s3\_Ch4\_b13\_c040\_n159**



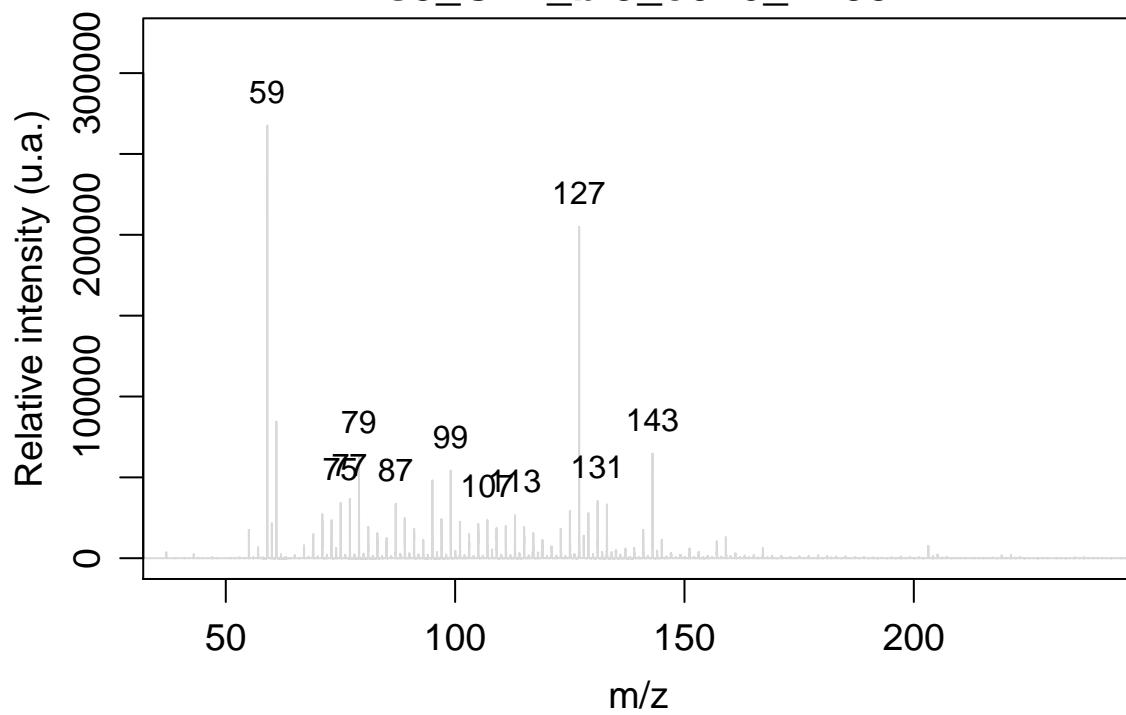
**s3\_Ch4\_b13\_c042\_n167**



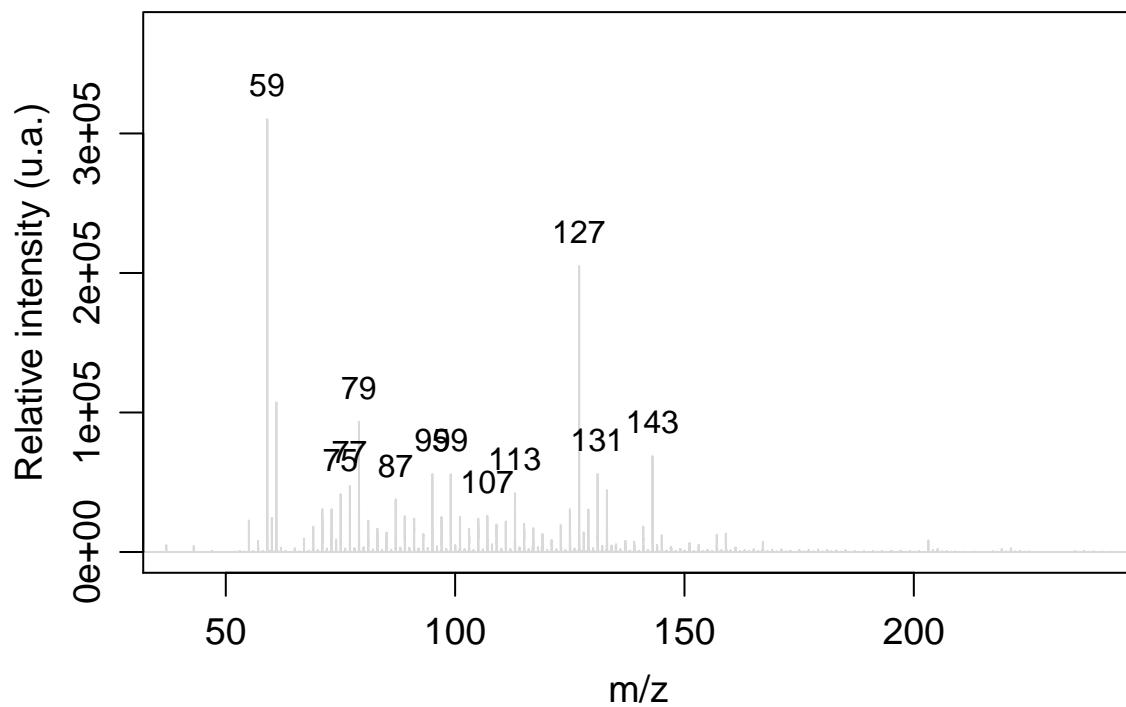
**s3\_Ch4\_b13\_c044\_n175**



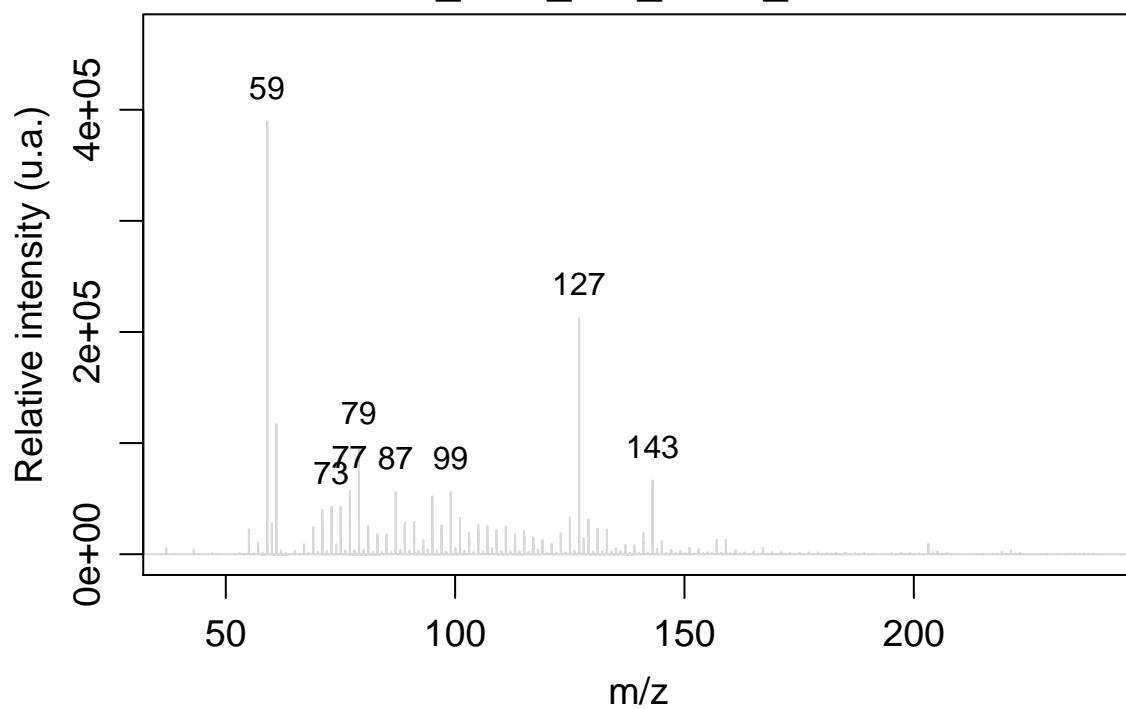
**s3\_Ch4\_b13\_c046\_n183**



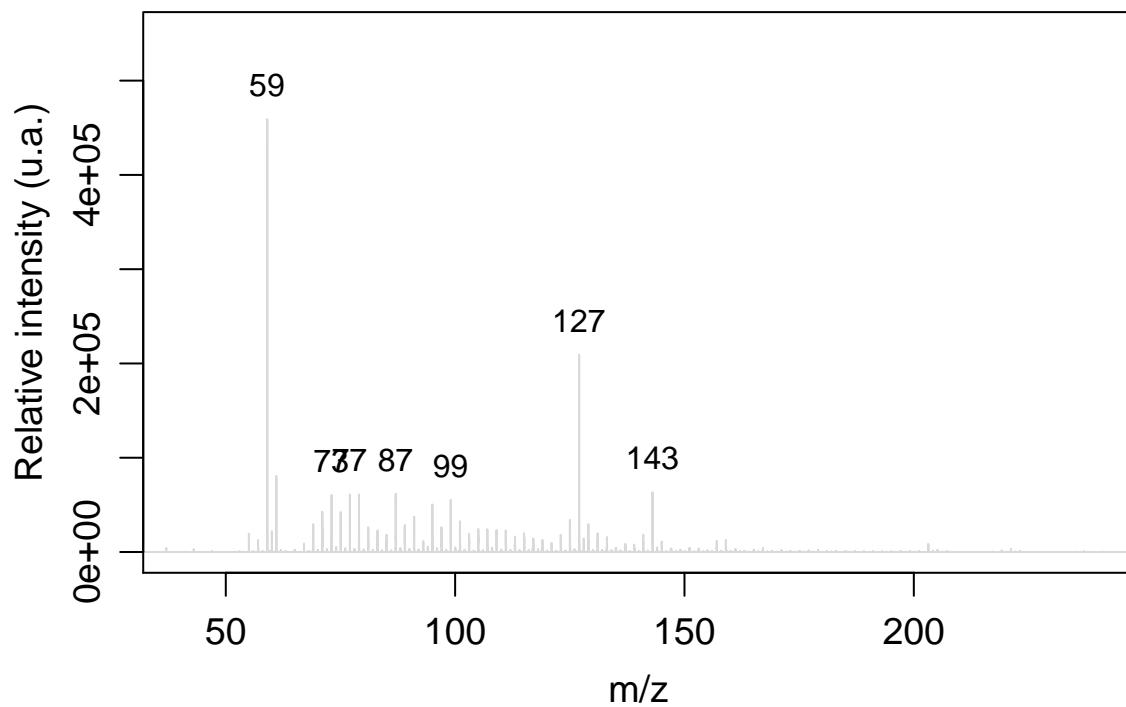
**s3\_Ch4\_b13\_c048\_n191**



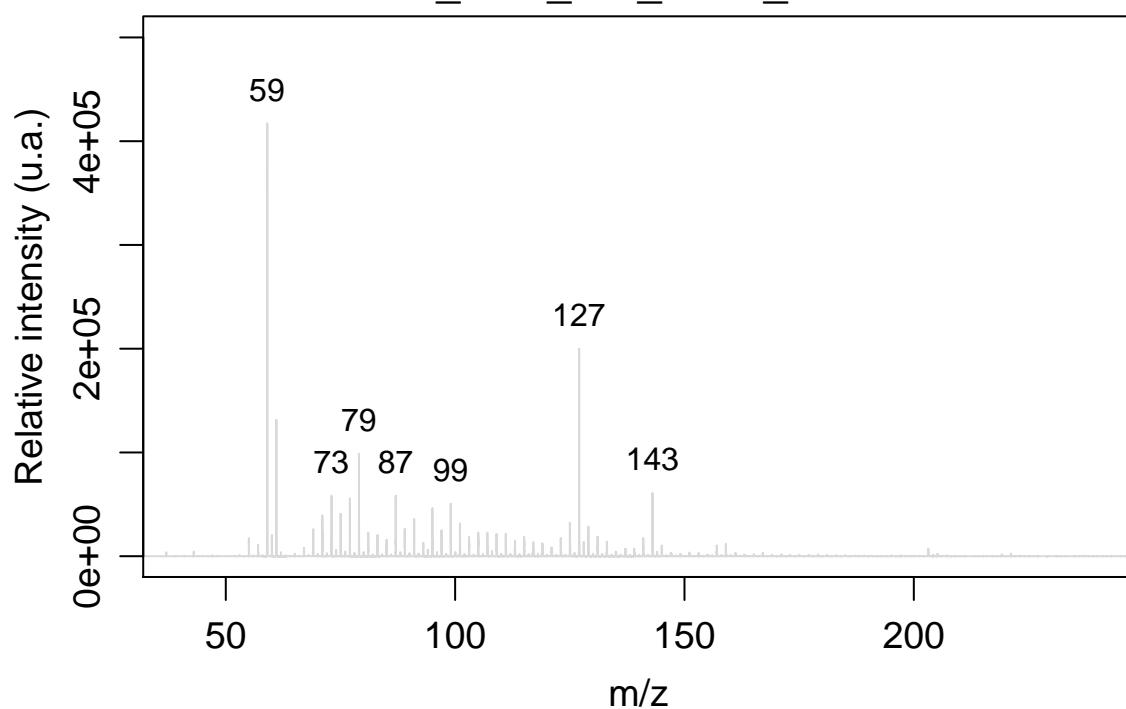
**s3\_Ch4\_b13\_c050\_n199**



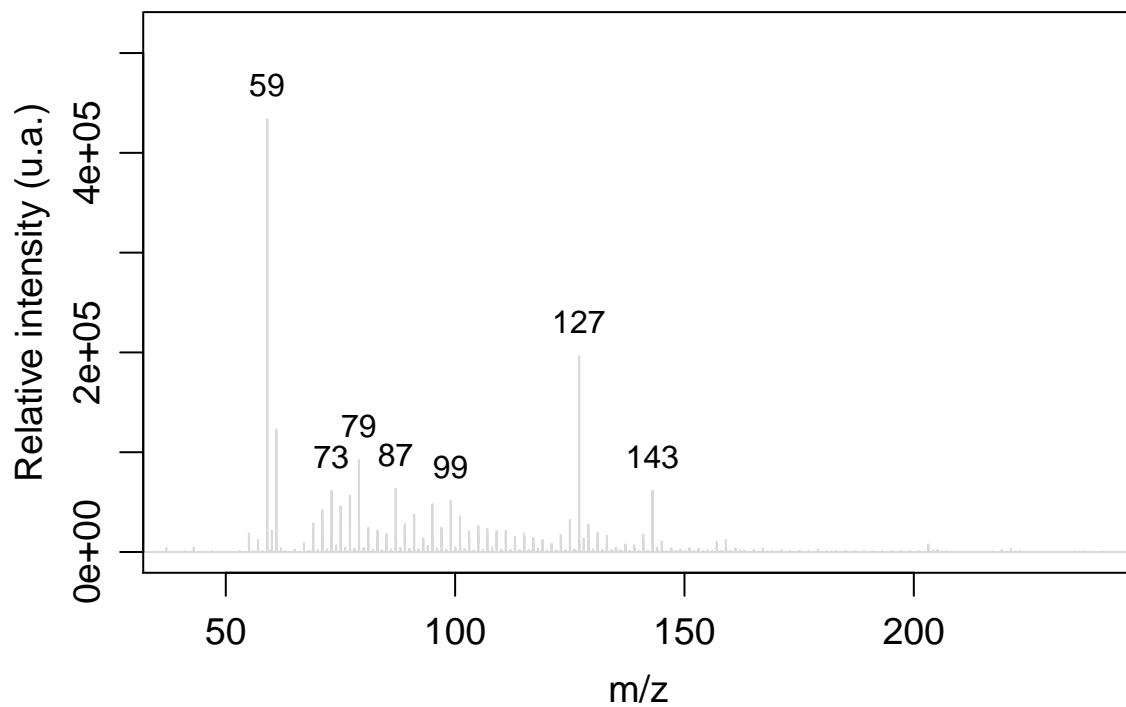
**s3\_Ch4\_b13\_c052\_n207**



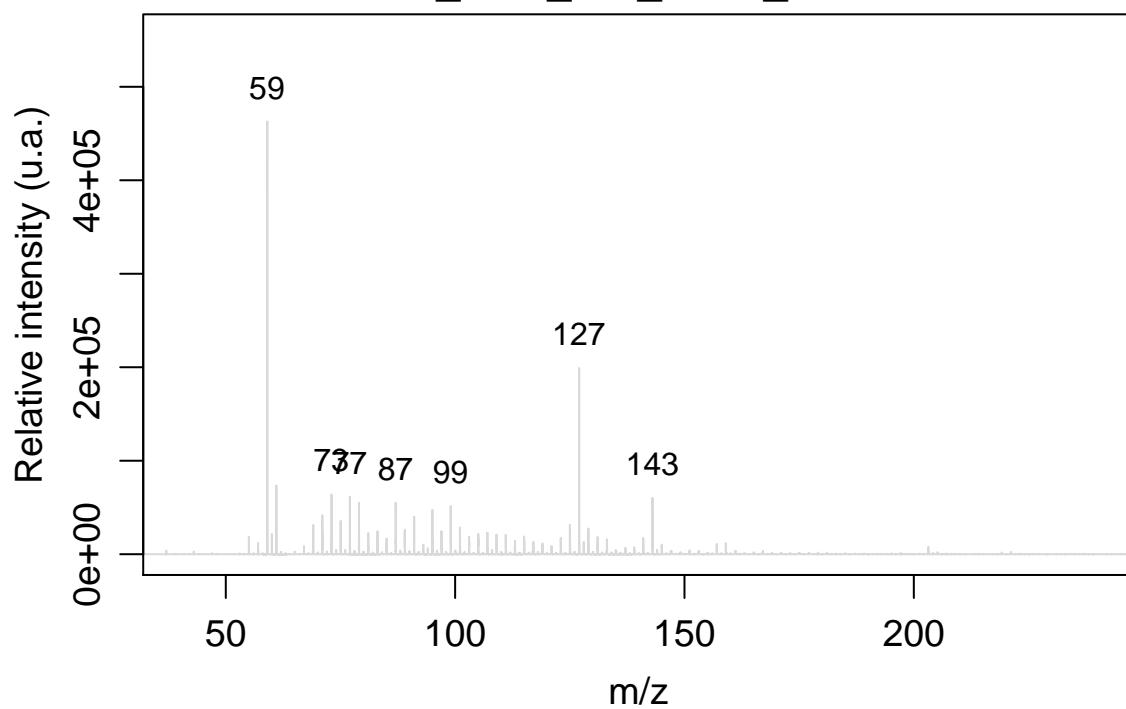
**s3\_Ch4\_b13\_c054\_n215**



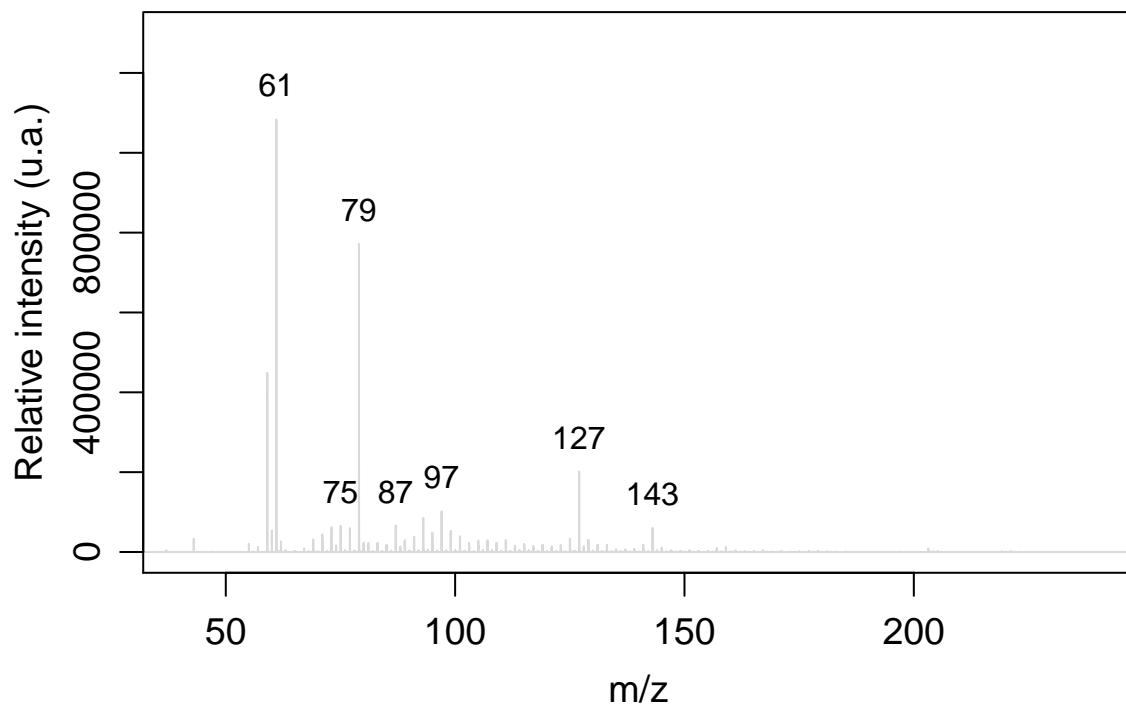
**s3\_Ch4\_b13\_c056\_n223**



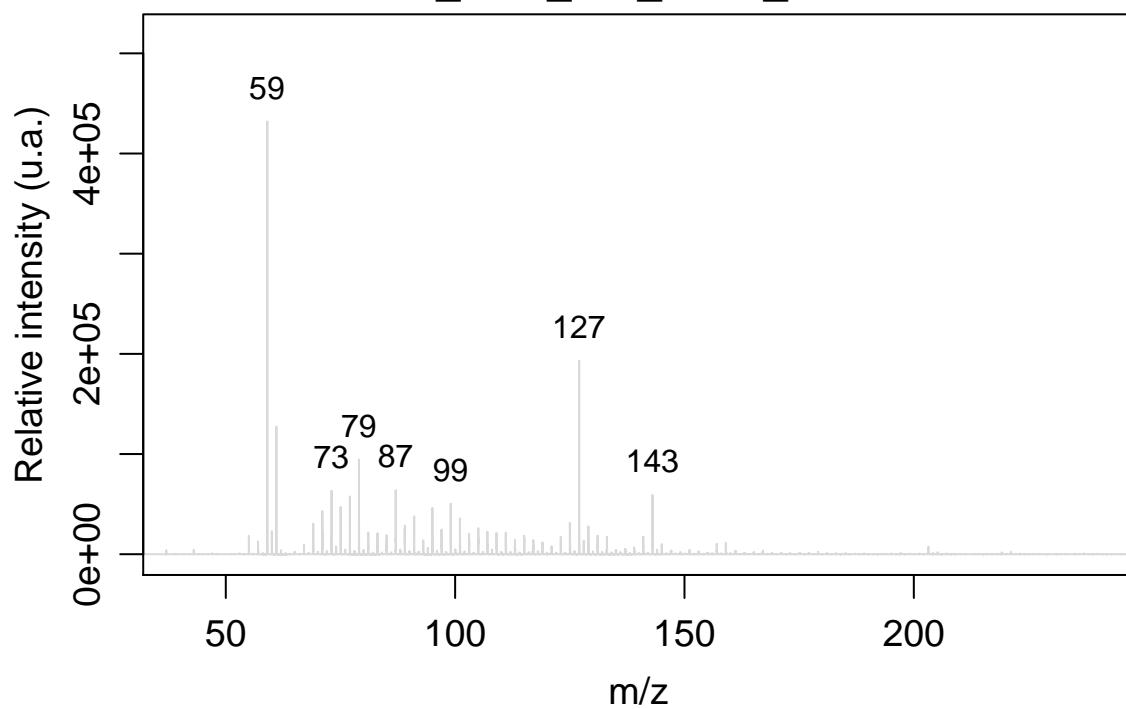
**s3\_Ch4\_b13\_c058\_n231**



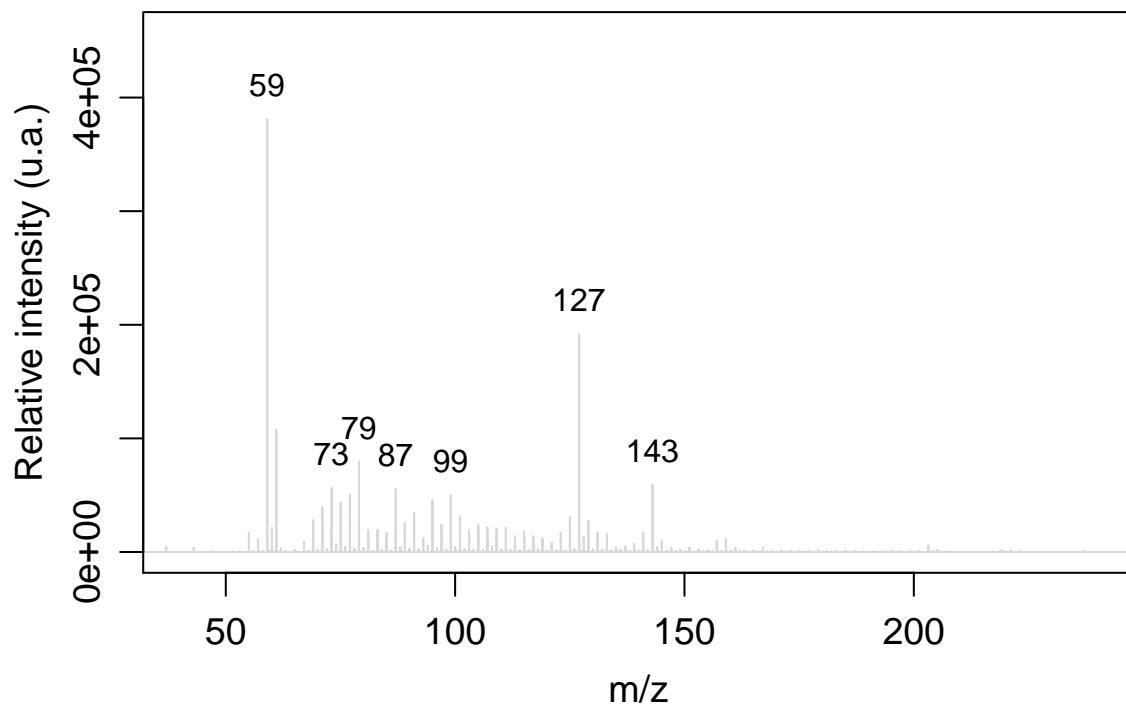
**s3\_Ch4\_b13\_c060\_n239**



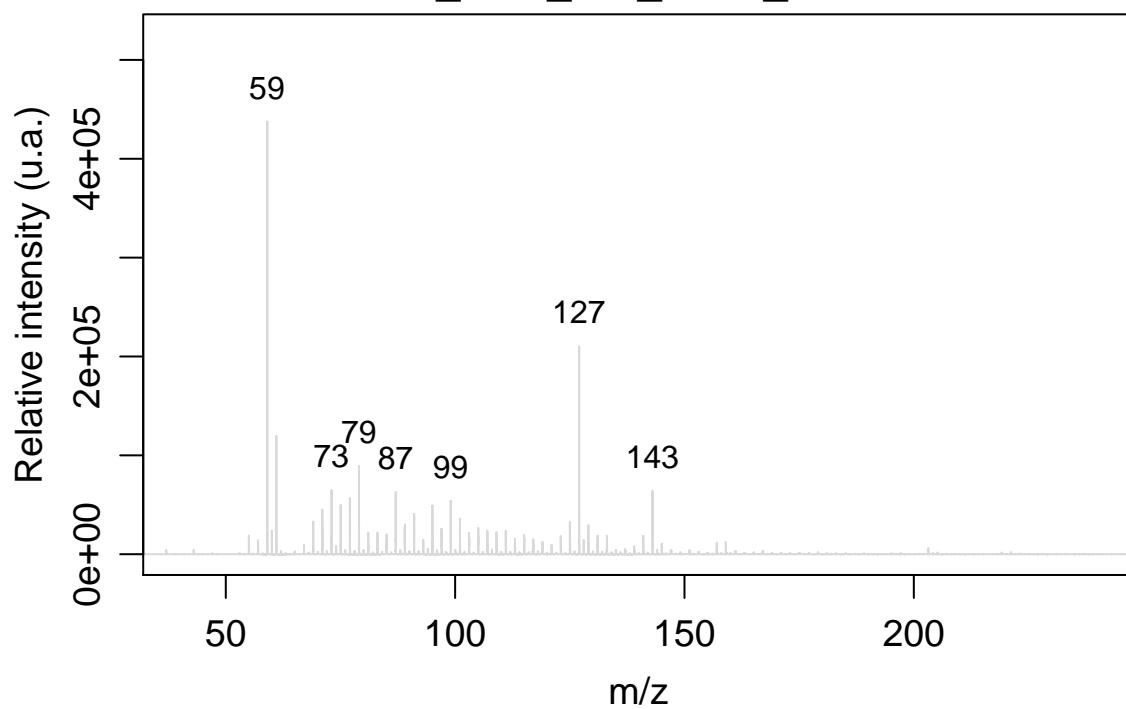
**s3\_Ch4\_b13\_c062\_n247**



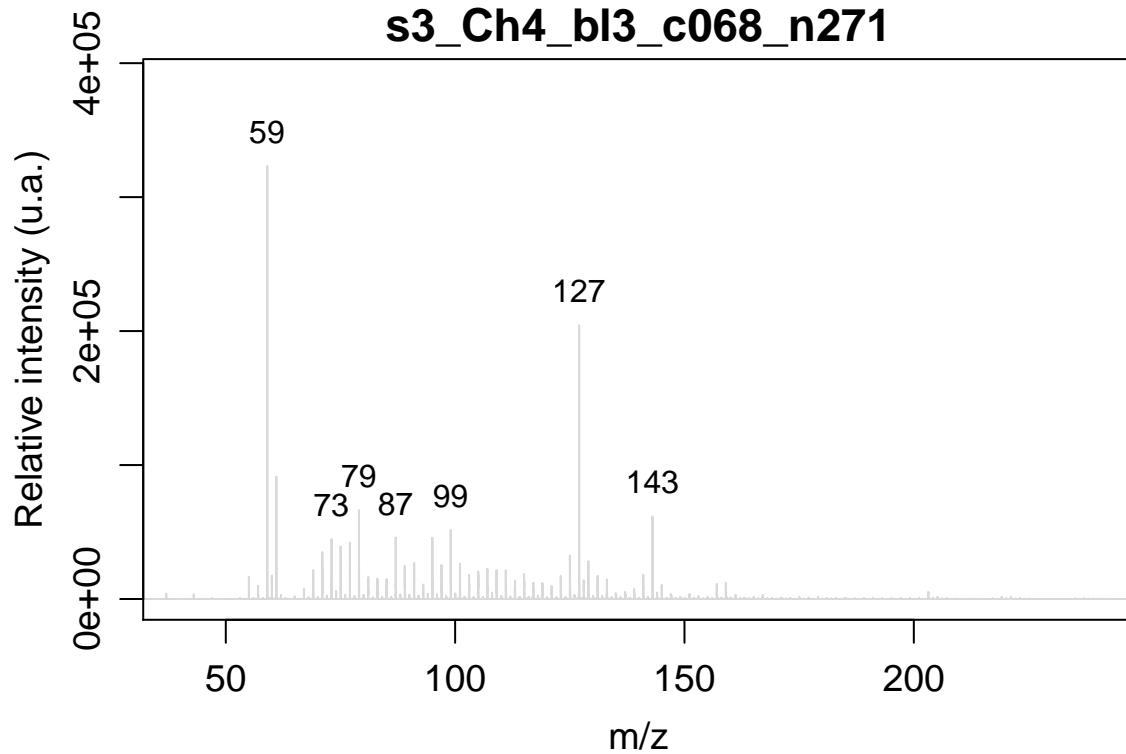
**s3\_Ch4\_b13\_c064\_n255**



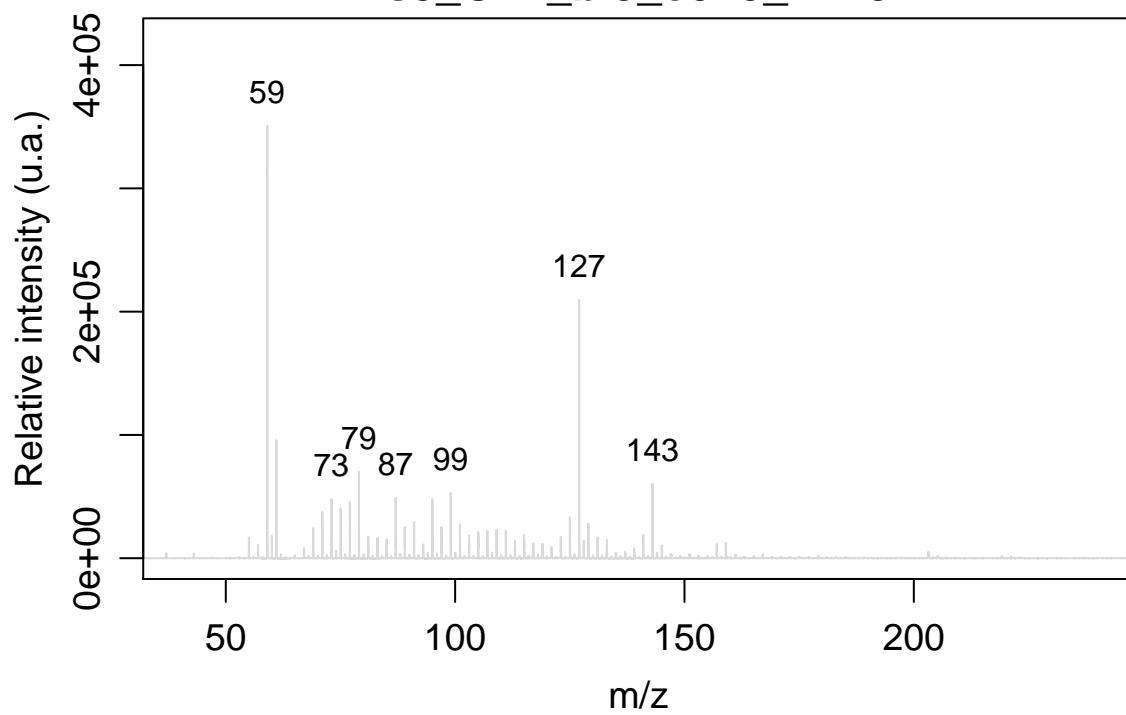
**s3\_Ch4\_b13\_c066\_n263**



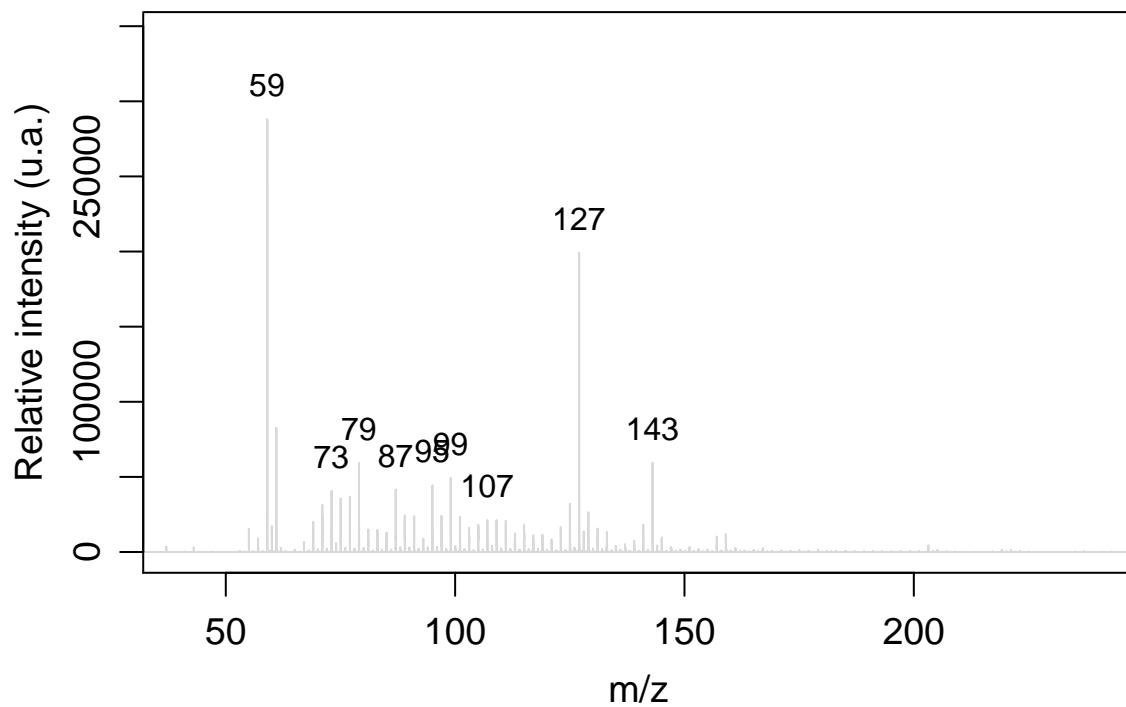
**s3\_Ch4\_b13\_c068\_n271**



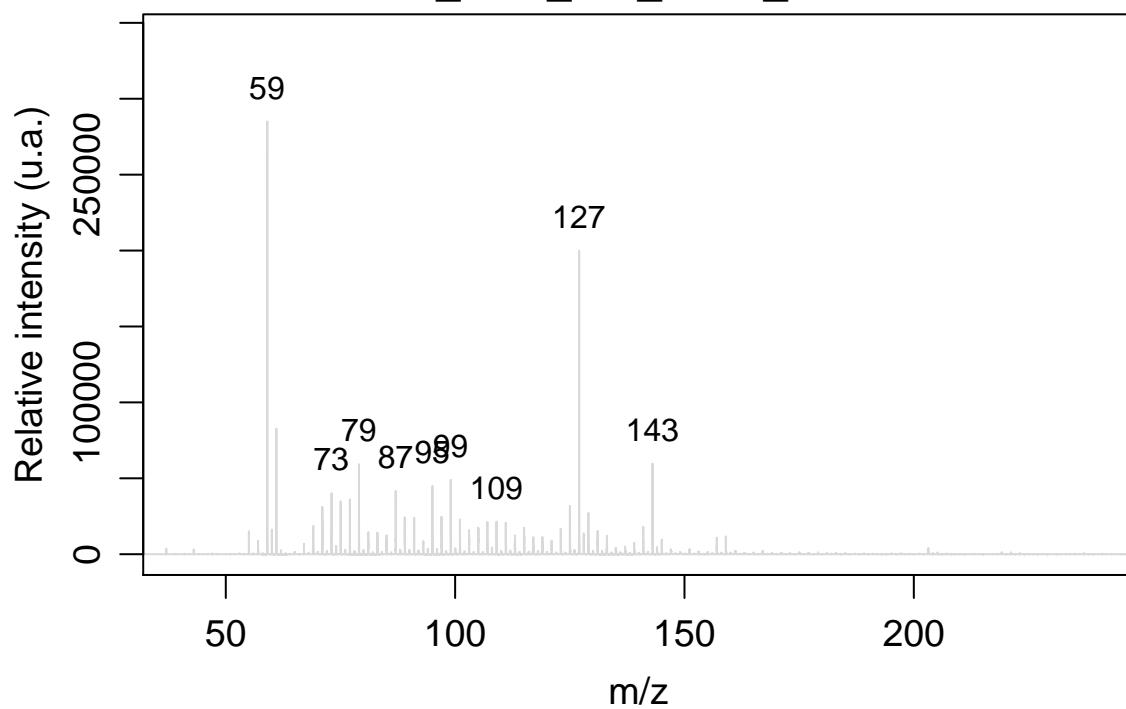
**s3\_Ch4\_b13\_c070\_n279**



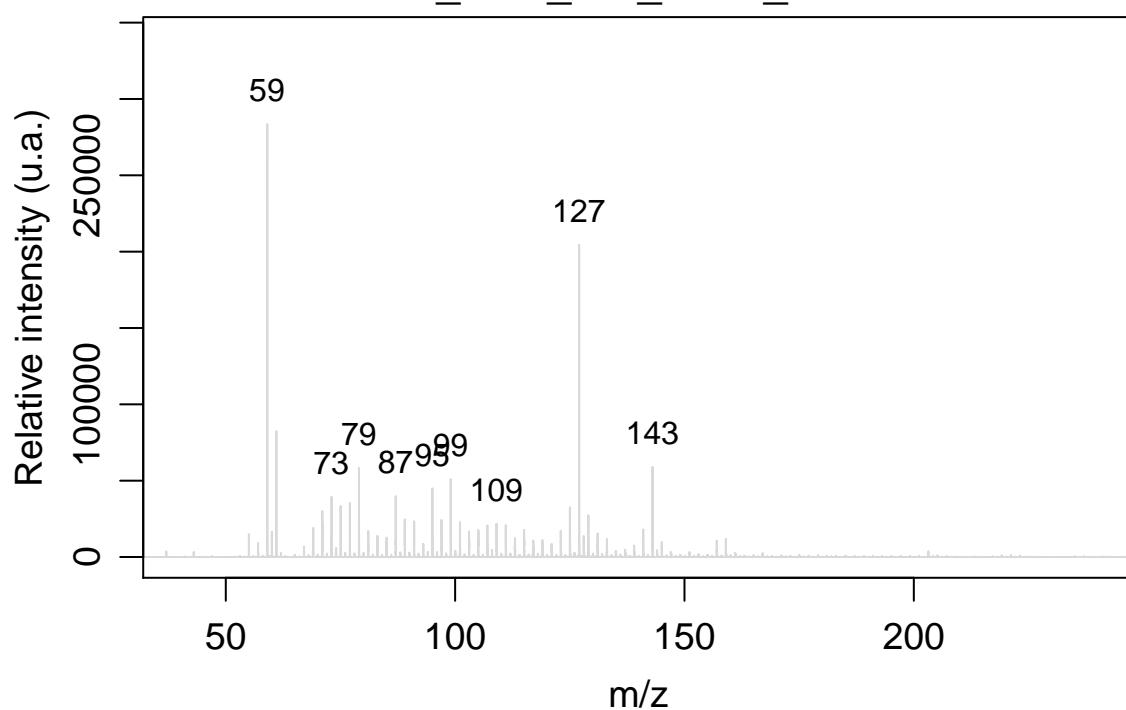
**s3\_Ch4\_b13\_c072\_n287**



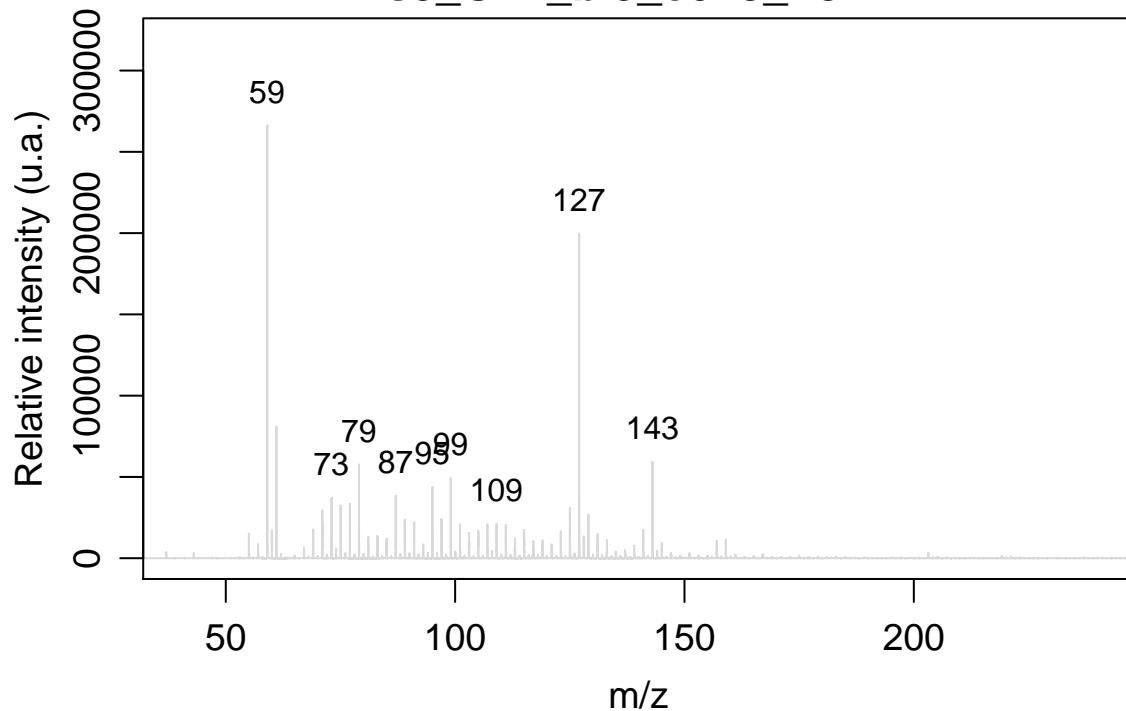
**s3\_Ch4\_b13\_c074\_n295**



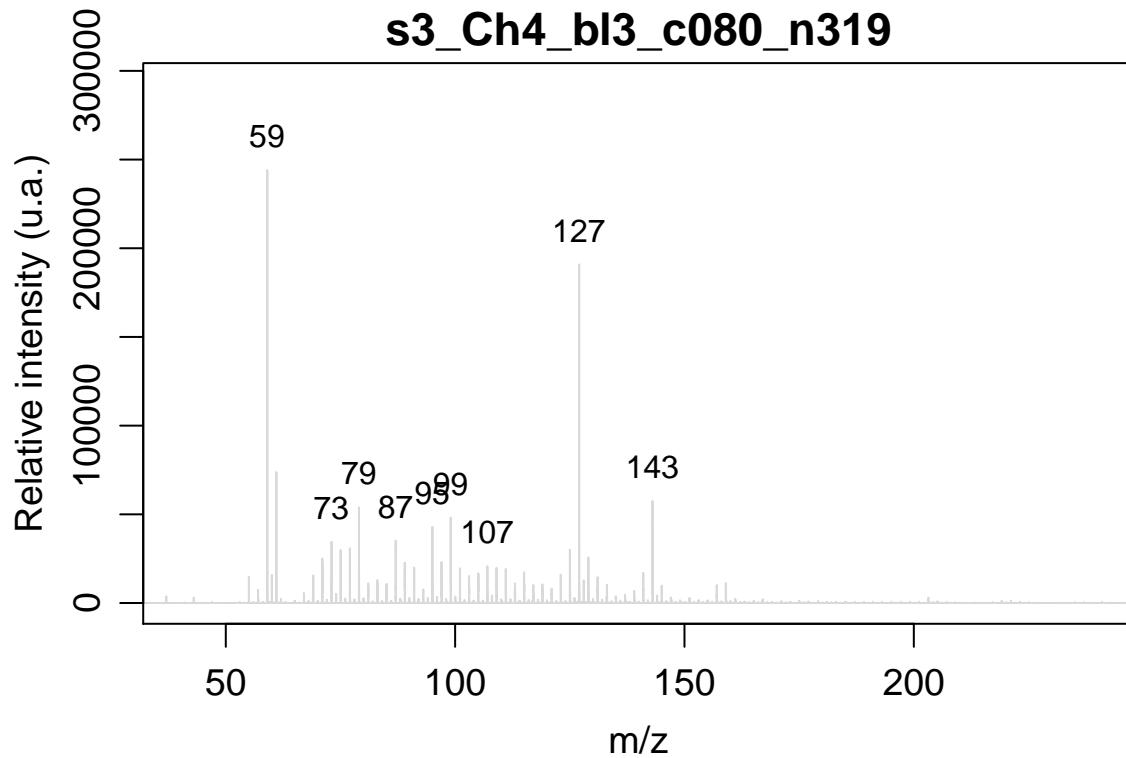
**s3\_Ch4\_b13\_c076\_n303**



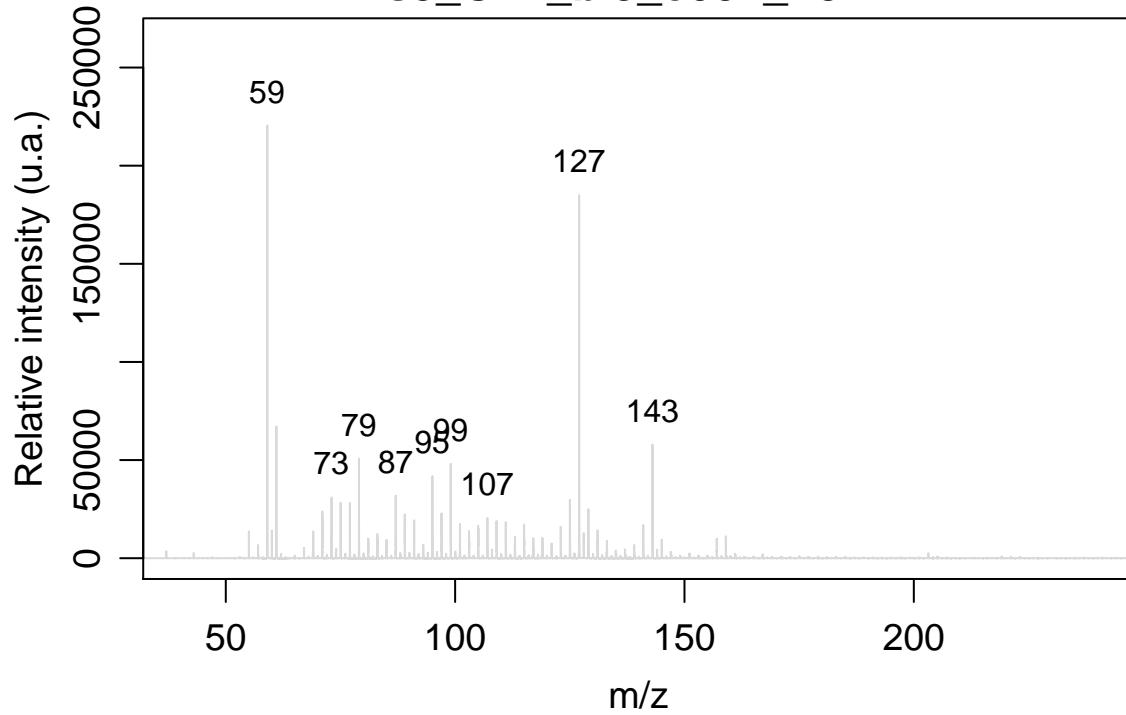
**s3\_Ch4\_b13\_c078\_n311**



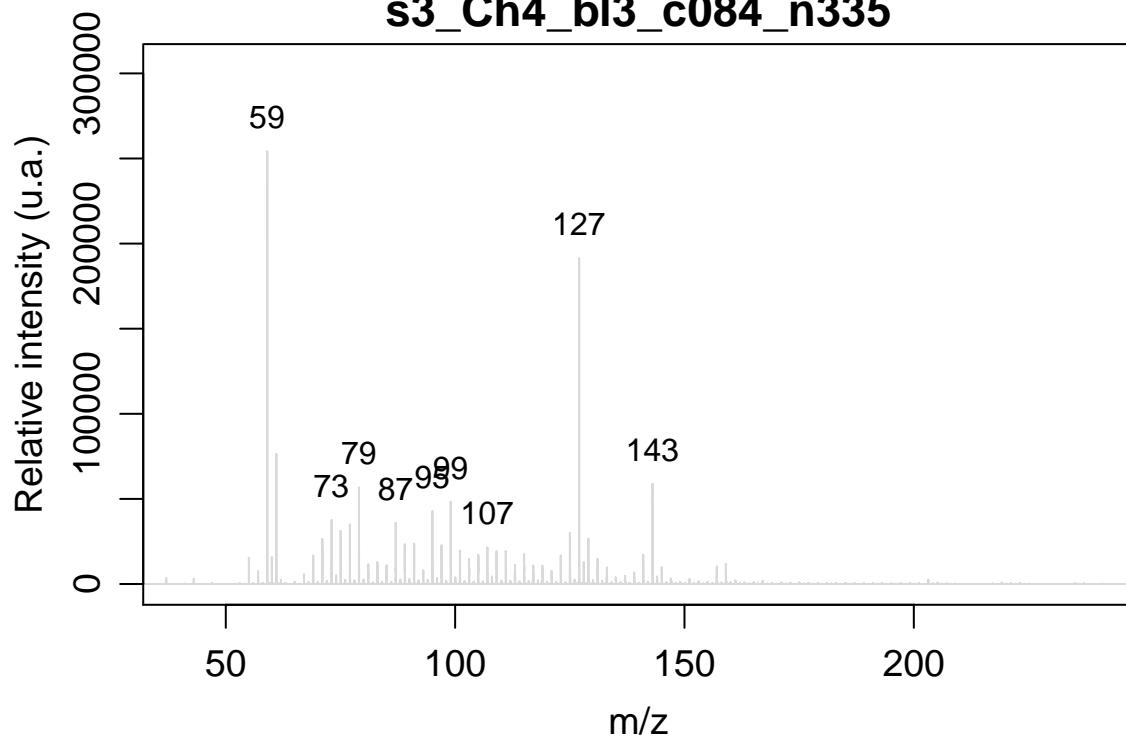
**s3\_Ch4\_b13\_c080\_n319**



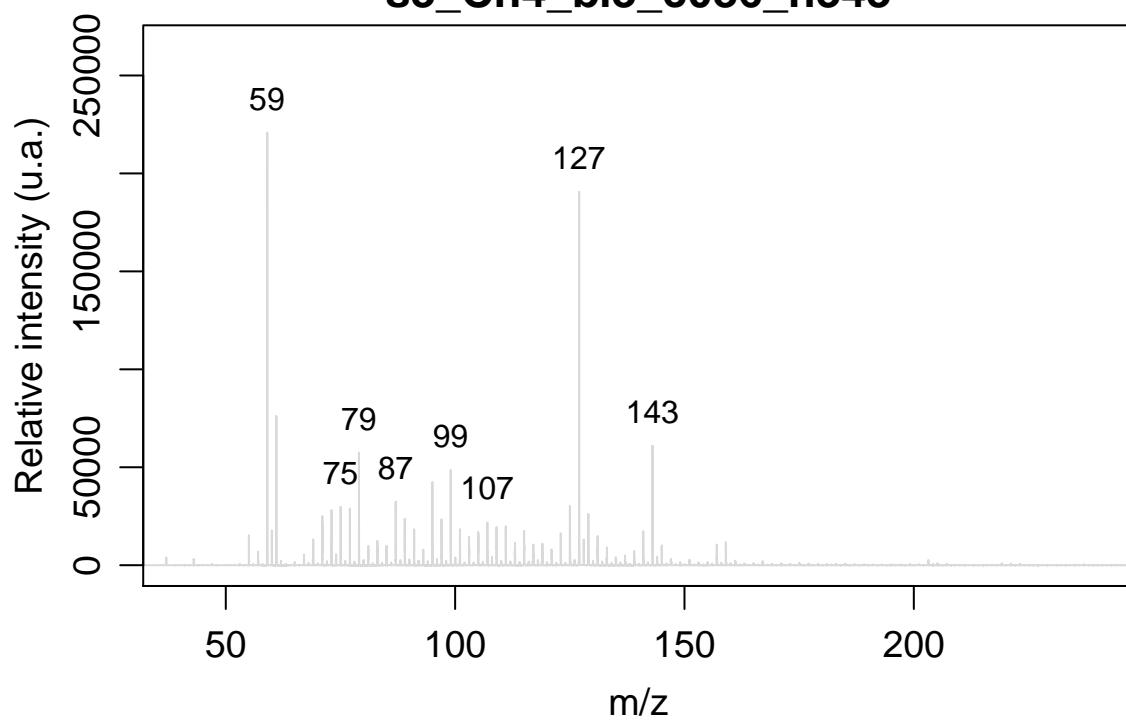
**s3\_Ch4\_b13\_c082\_n327**



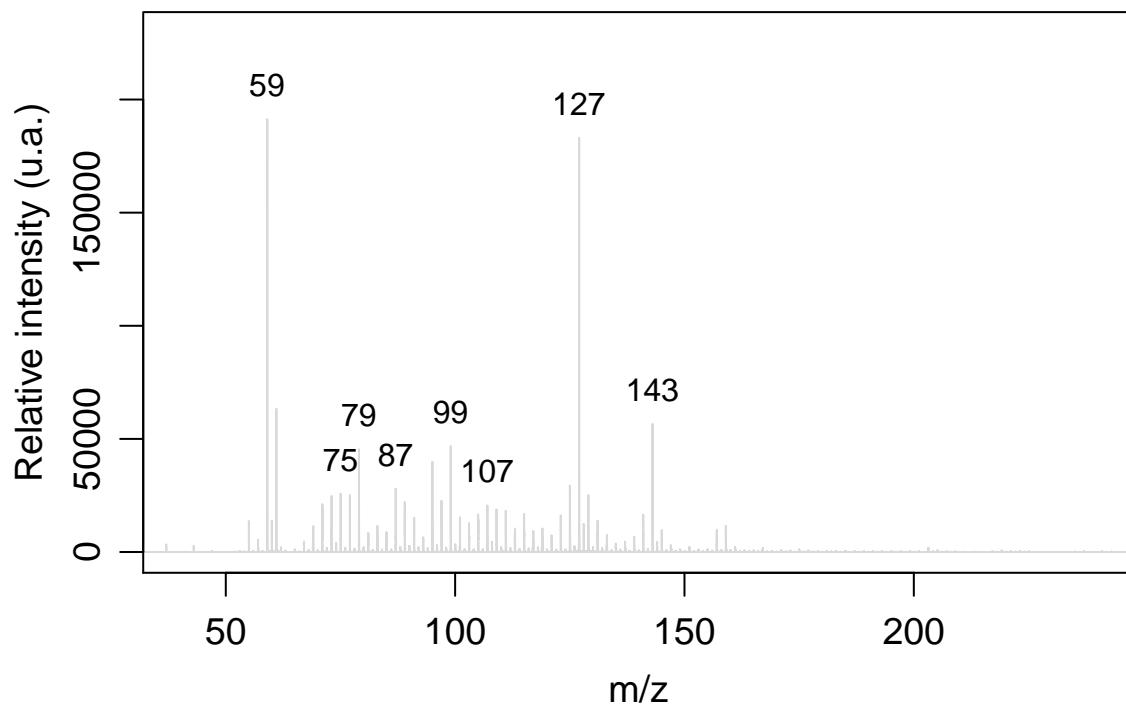
**s3\_Ch4\_b13\_c084\_n335**



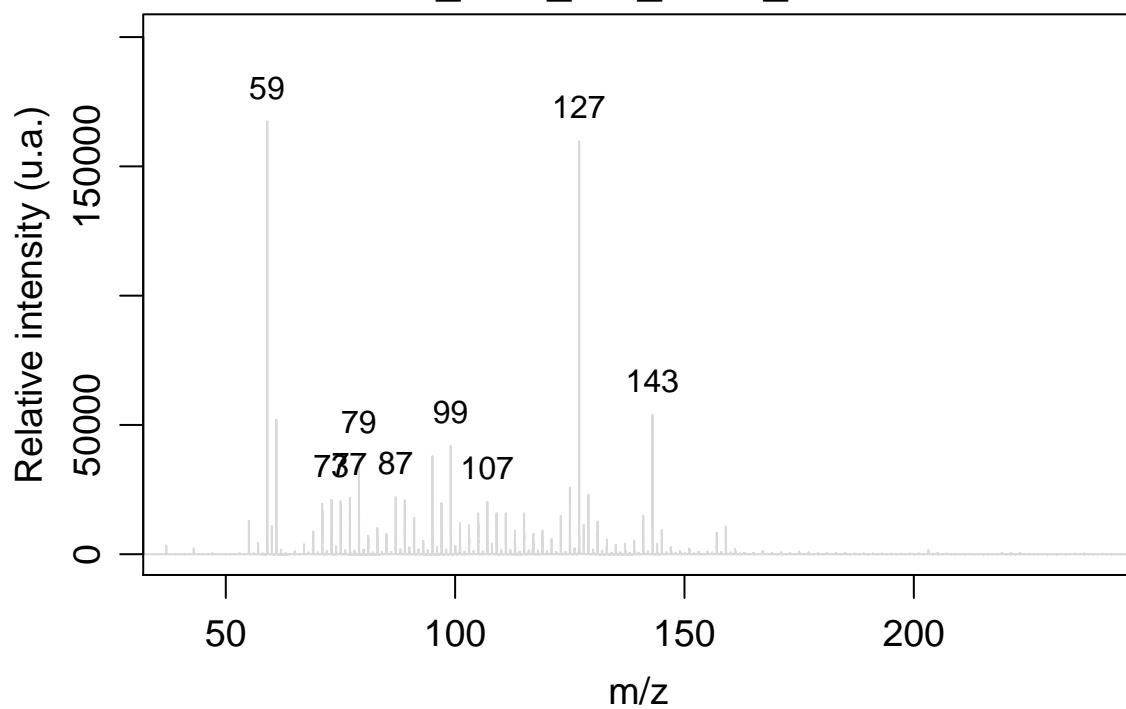
**s3\_Ch4\_b13\_c086\_n343**



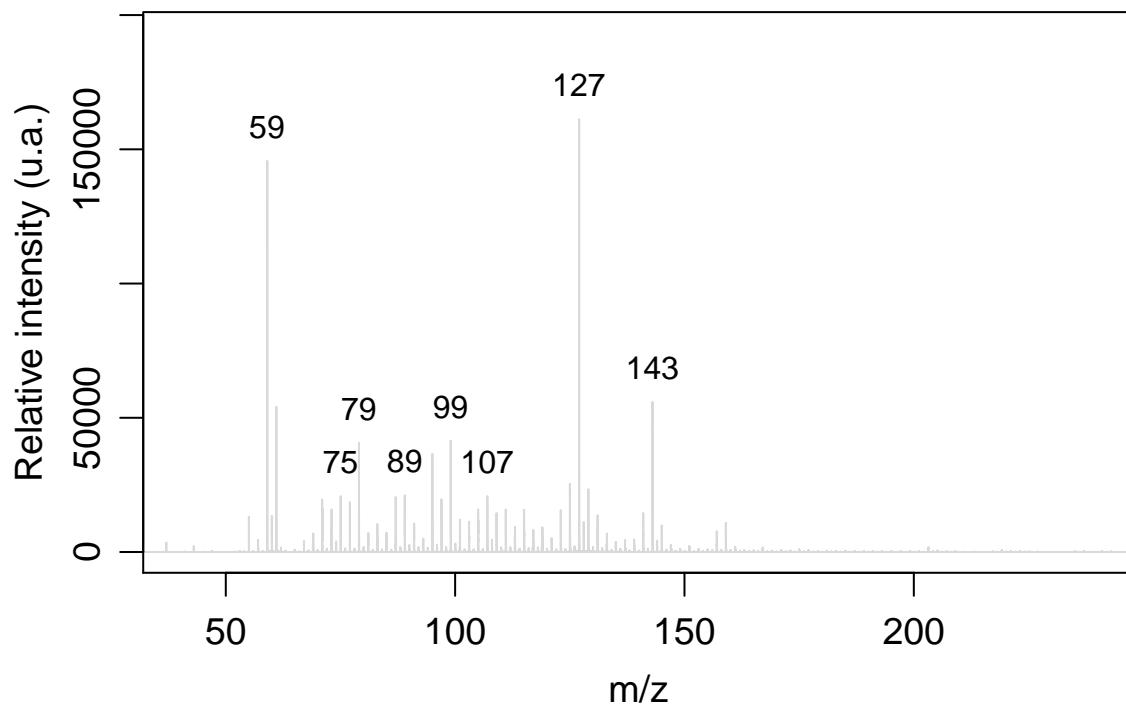
**s3\_Ch4\_b13\_c088\_n351**



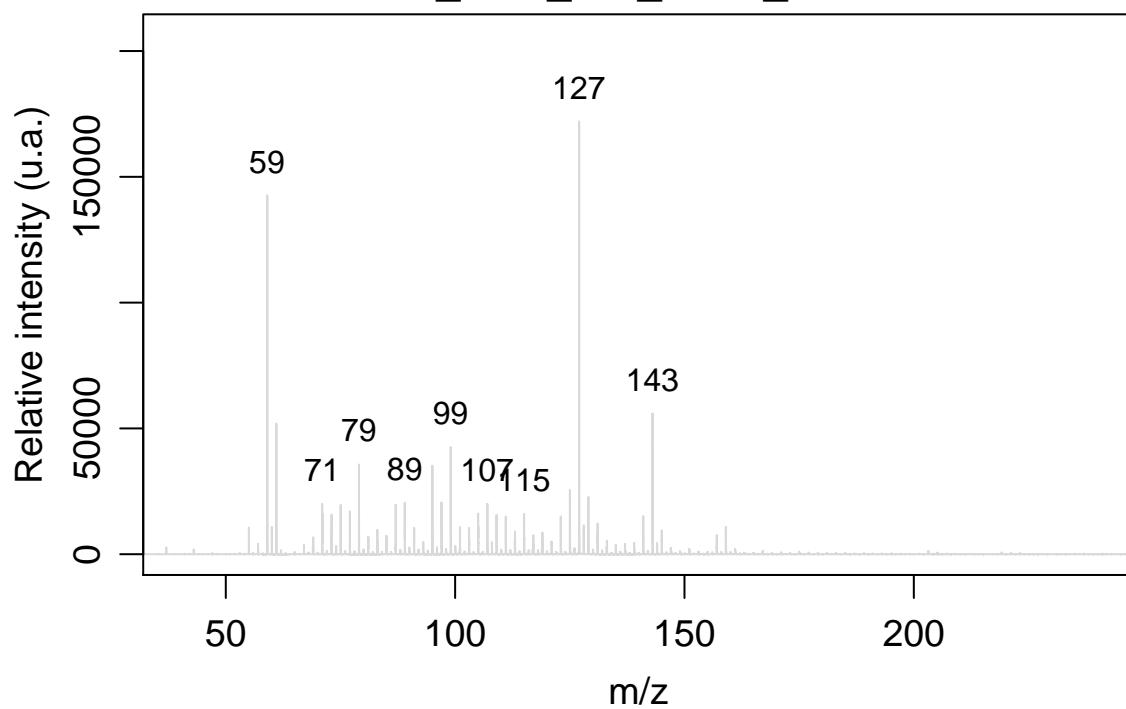
**s3\_Ch4\_b13\_c090\_n359**



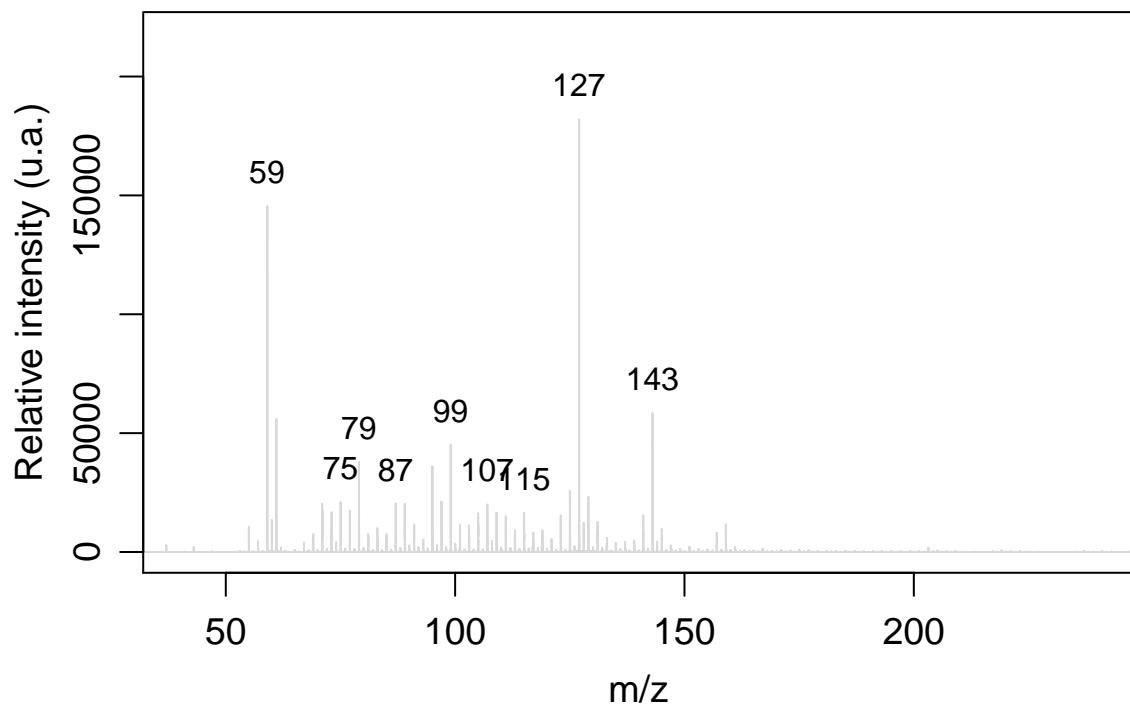
**s3\_Ch4\_b13\_c092\_n367**



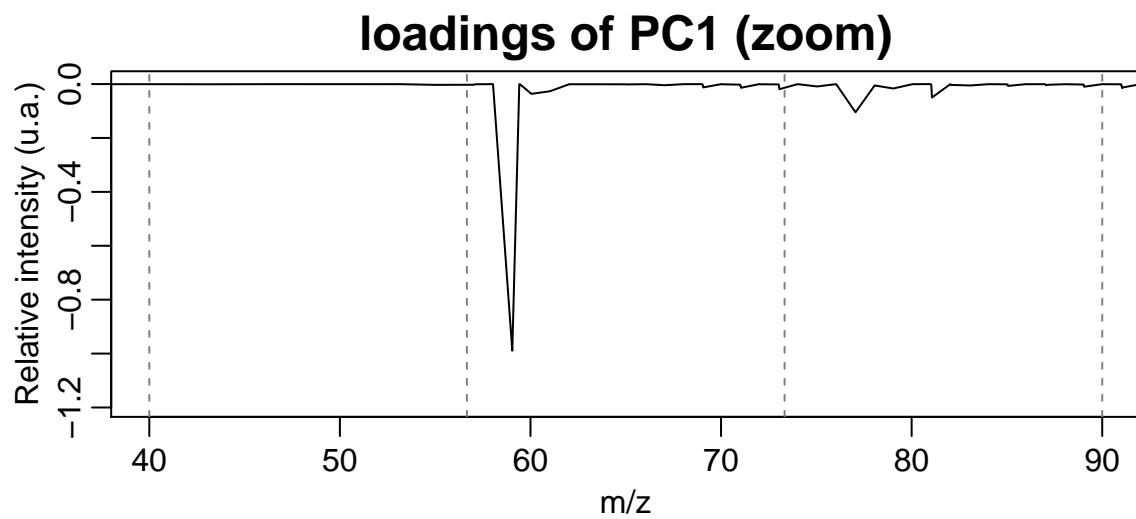
**s3\_Ch4\_b13\_c094\_n375**



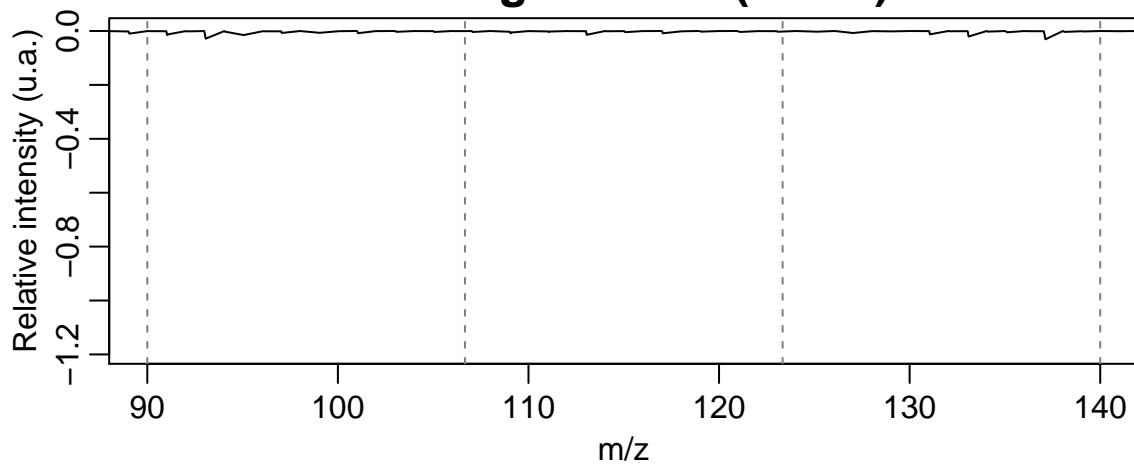
**s3\_Ch4\_b13\_c096\_n383**



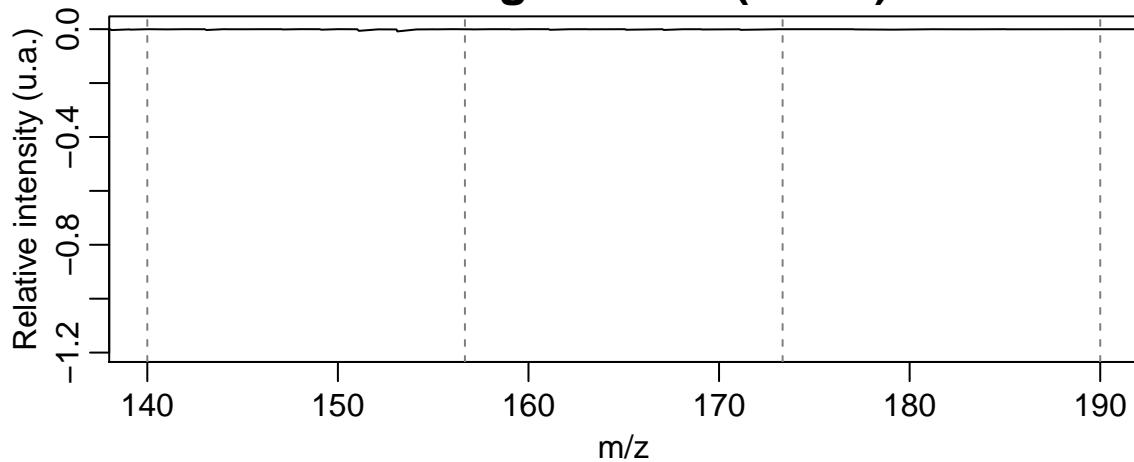
Loadings (zoom)



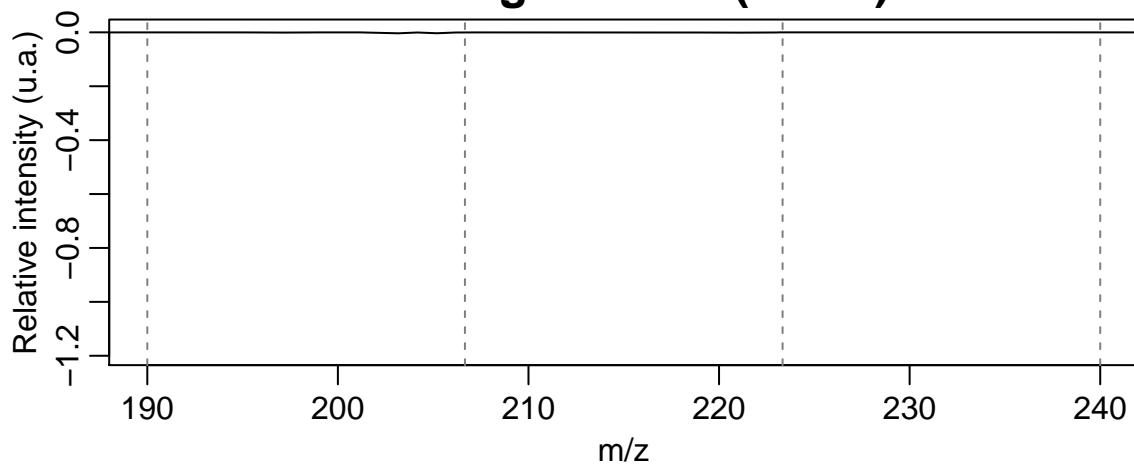
**loadings of PC1 (zoom)**



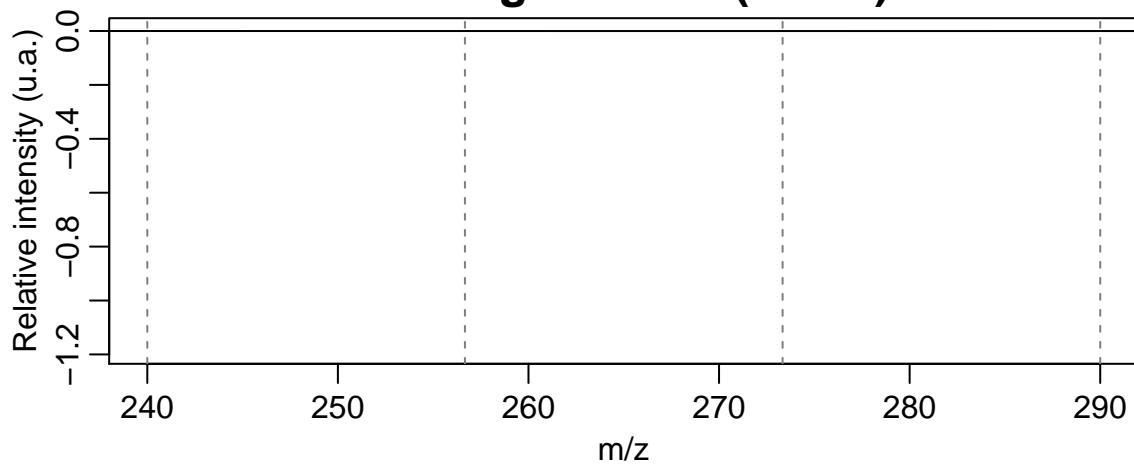
**loadings of PC1 (zoom)**



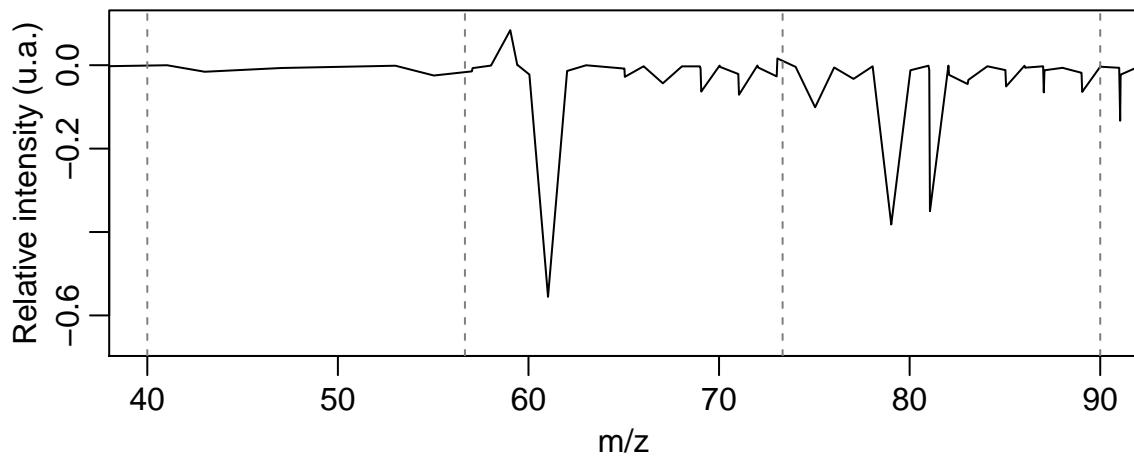
**loadings of PC1 (zoom)**



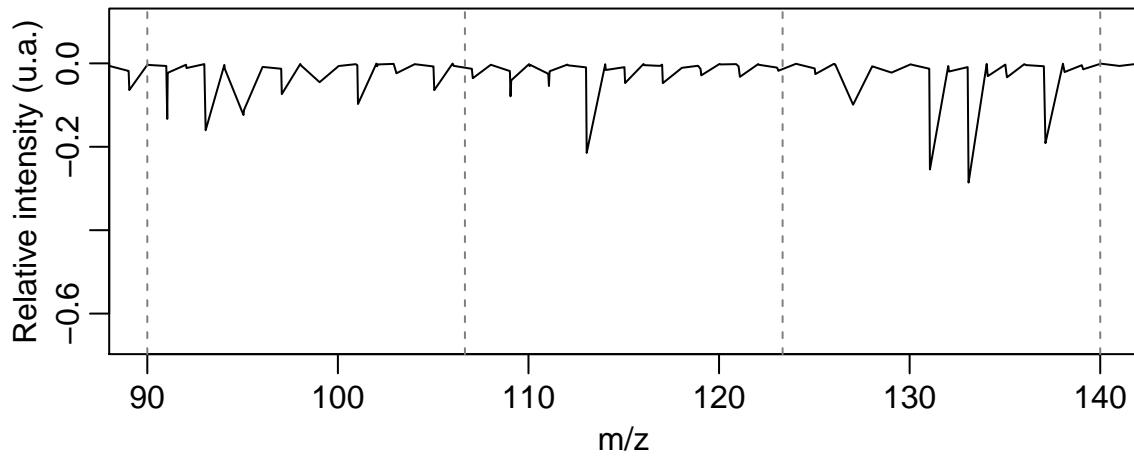
**loadings of PC1 (zoom)**



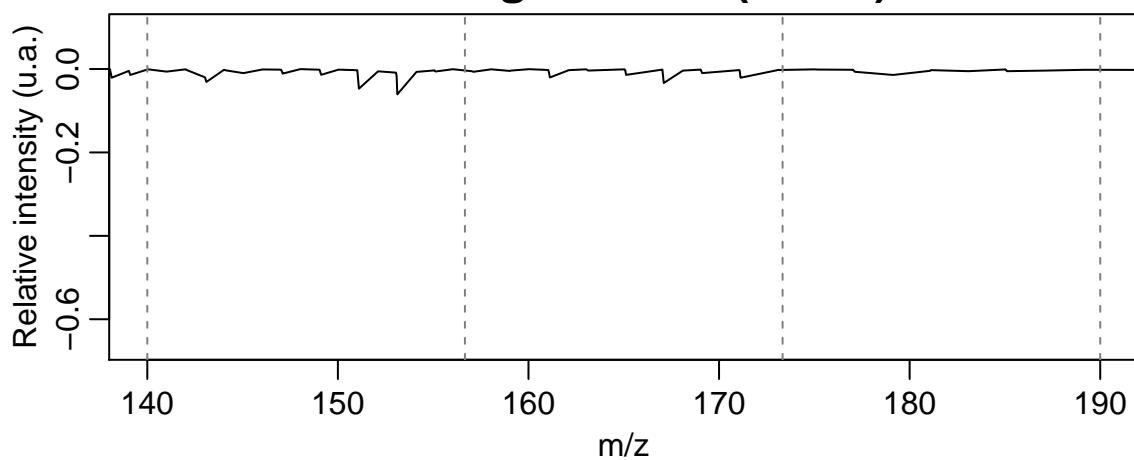
**loadings of PC2 (zoom)**



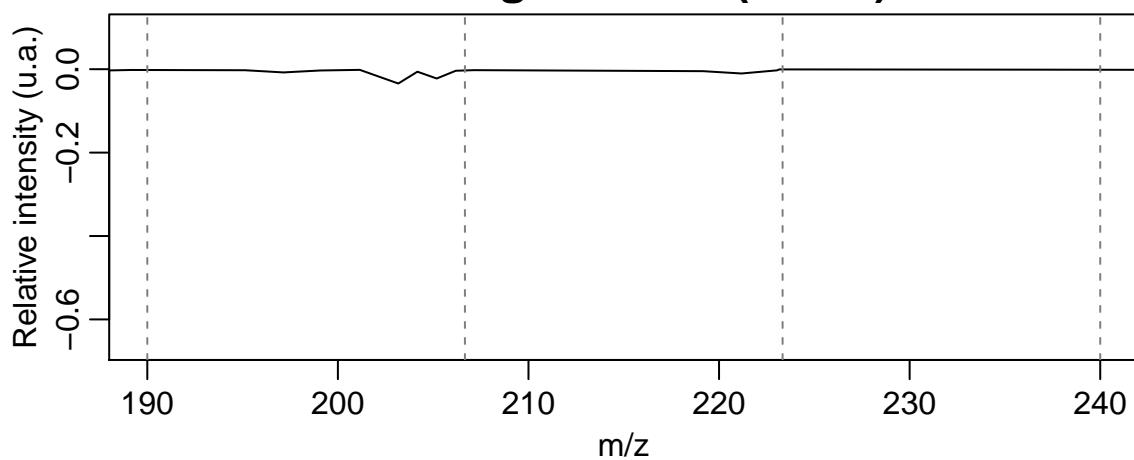
**loadings of PC2 (zoom)**



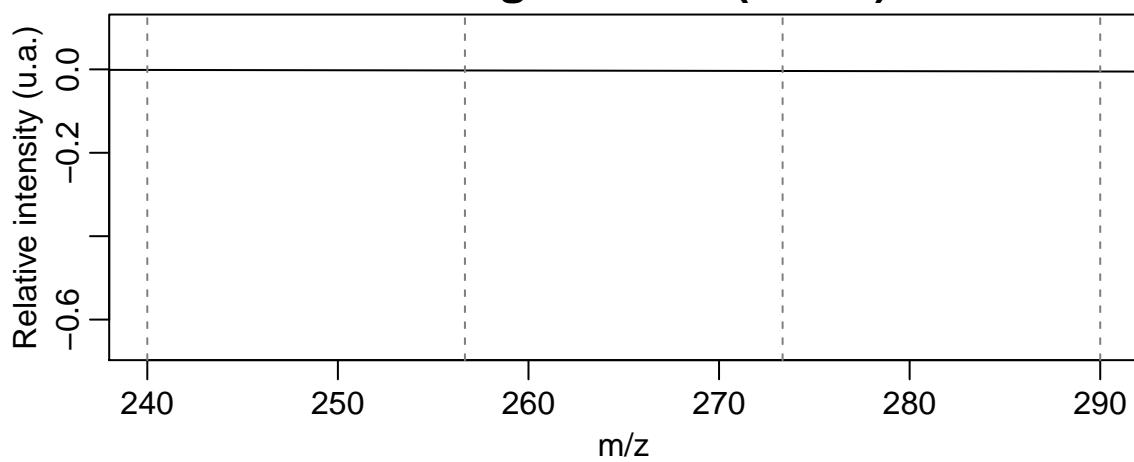
**loadings of PC2 (zoom)**



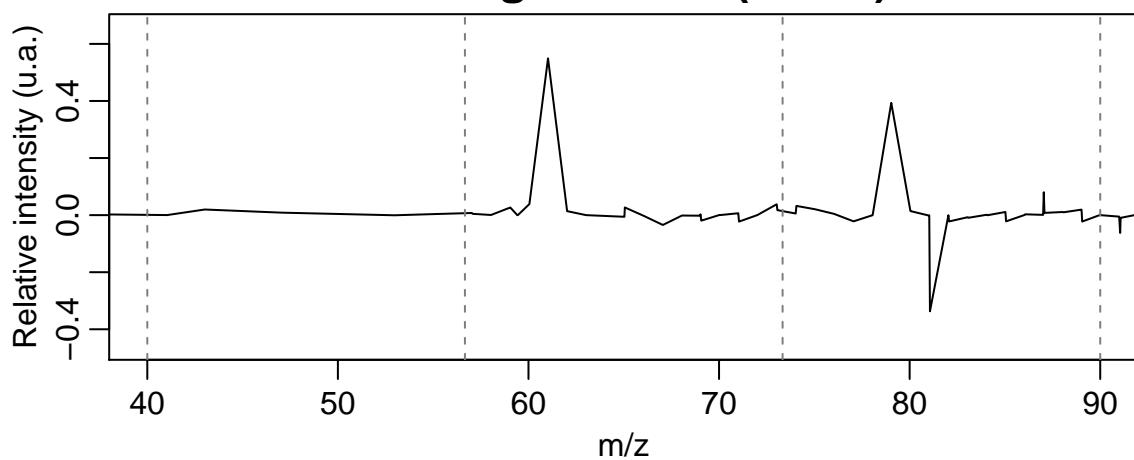
**loadings of PC2 (zoom)**



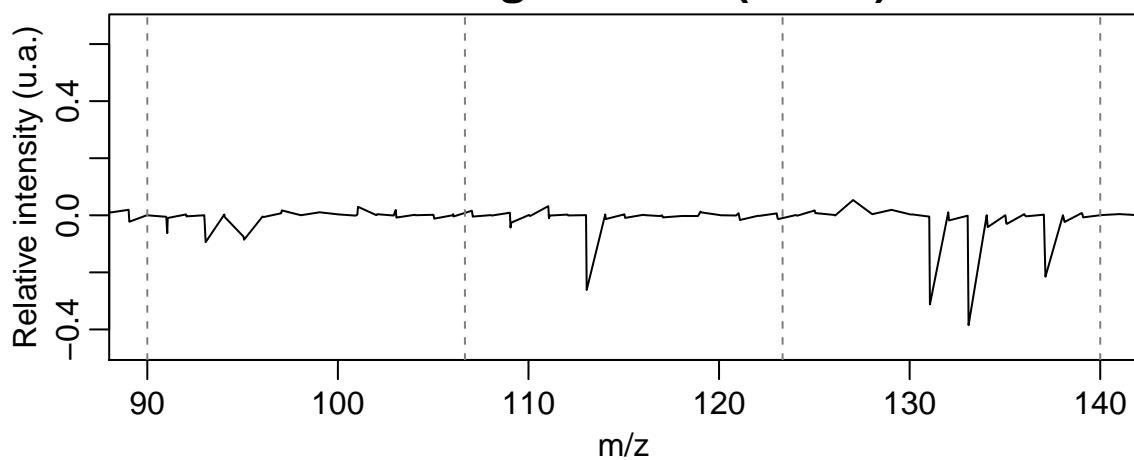
**loadings of PC2 (zoom)**



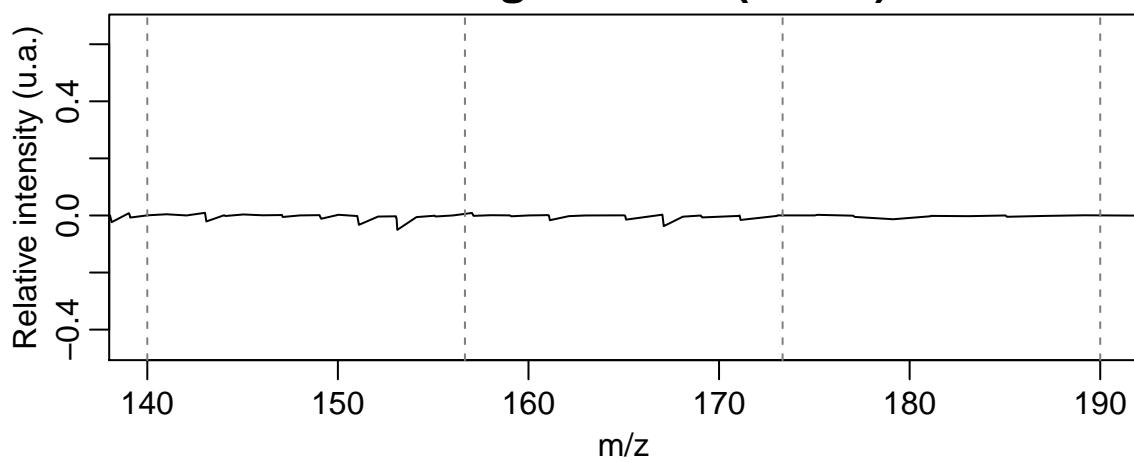
**loadings of PC3 (zoom)**



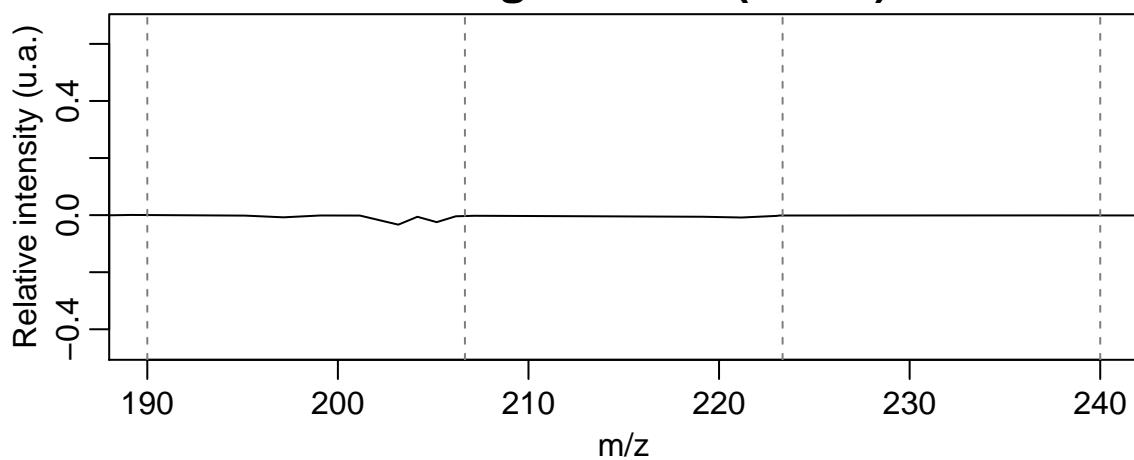
**loadings of PC3 (zoom)**



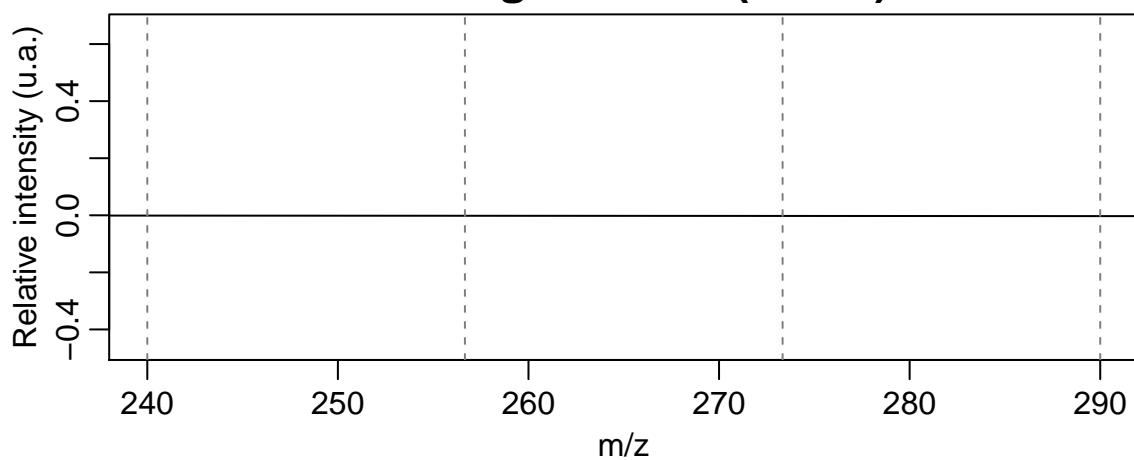
**loadings of PC3 (zoom)**



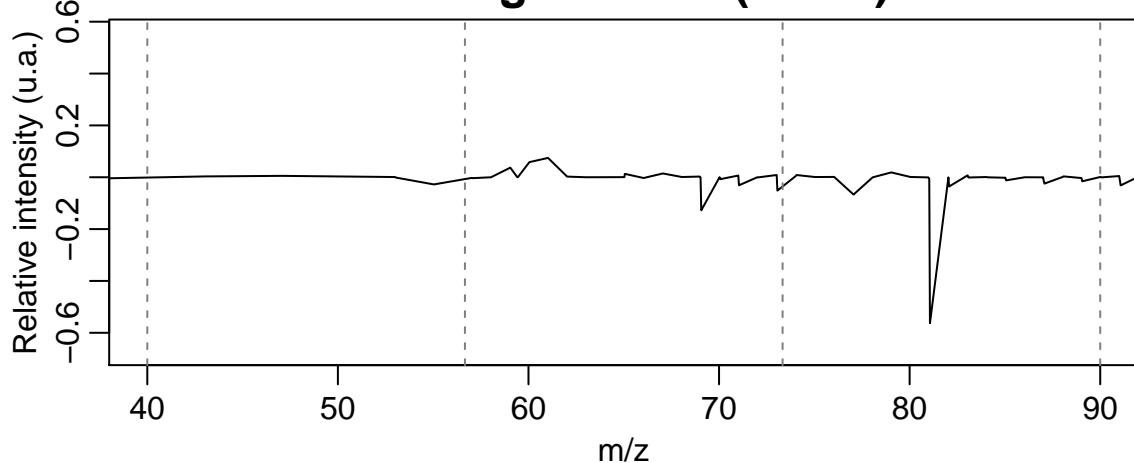
**loadings of PC3 (zoom)**



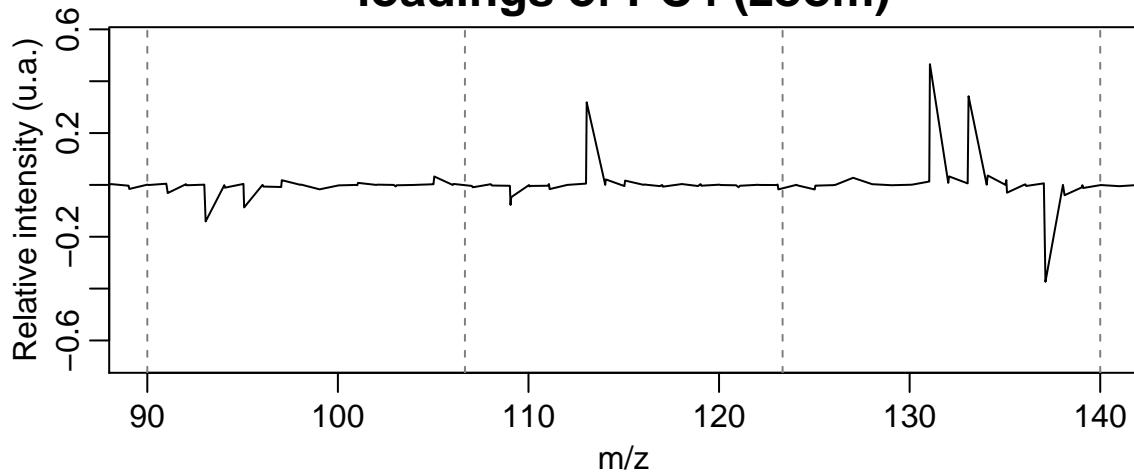
**loadings of PC3 (zoom)**



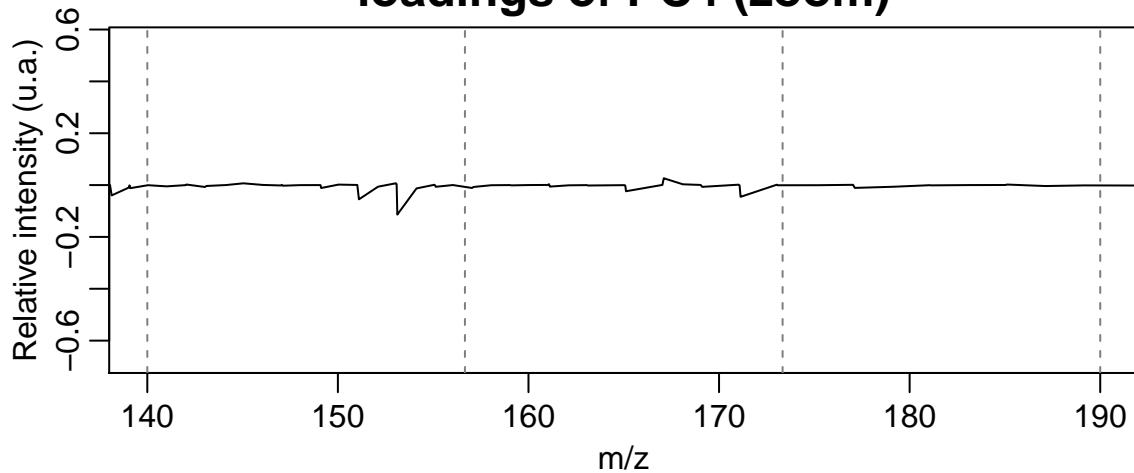
**loadings of PC4 (zoom)**



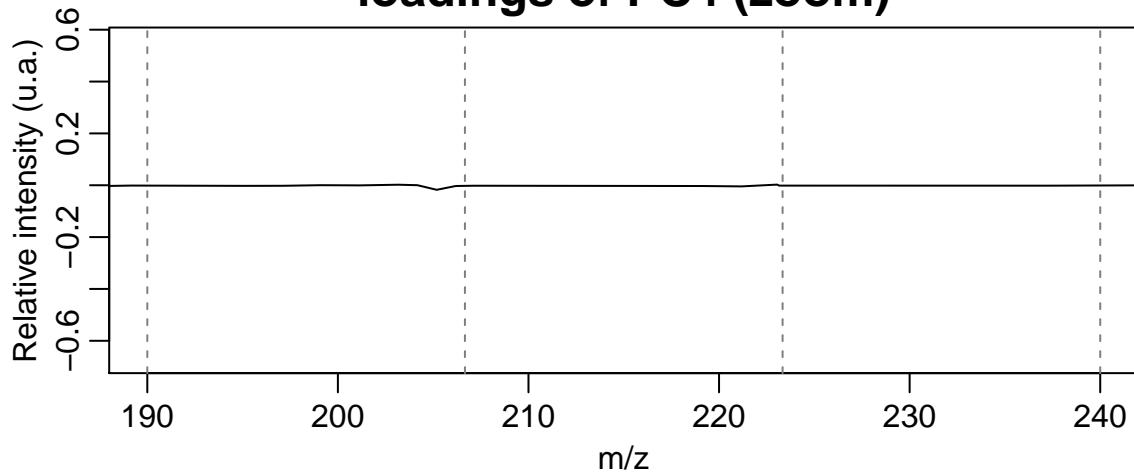
**loadings of PC4 (zoom)**



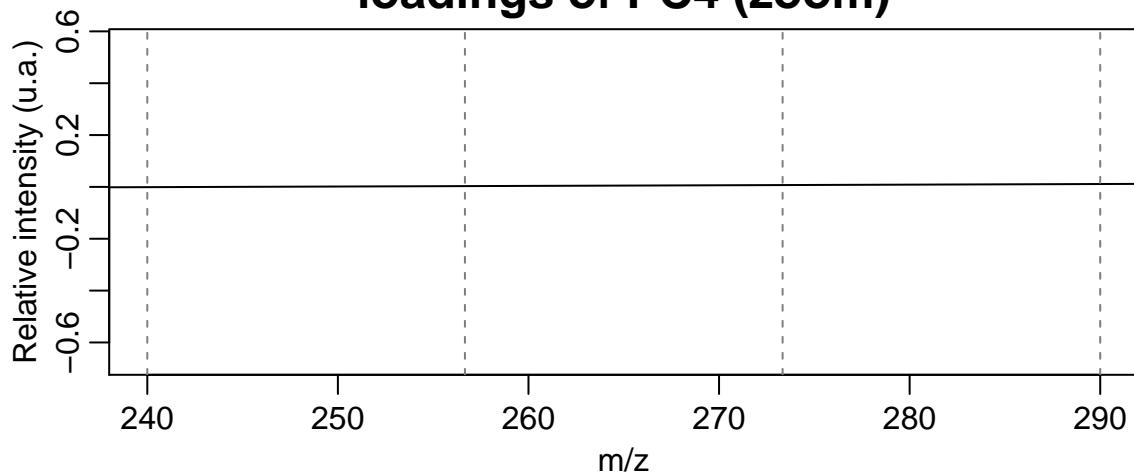
**loadings of PC4 (zoom)**



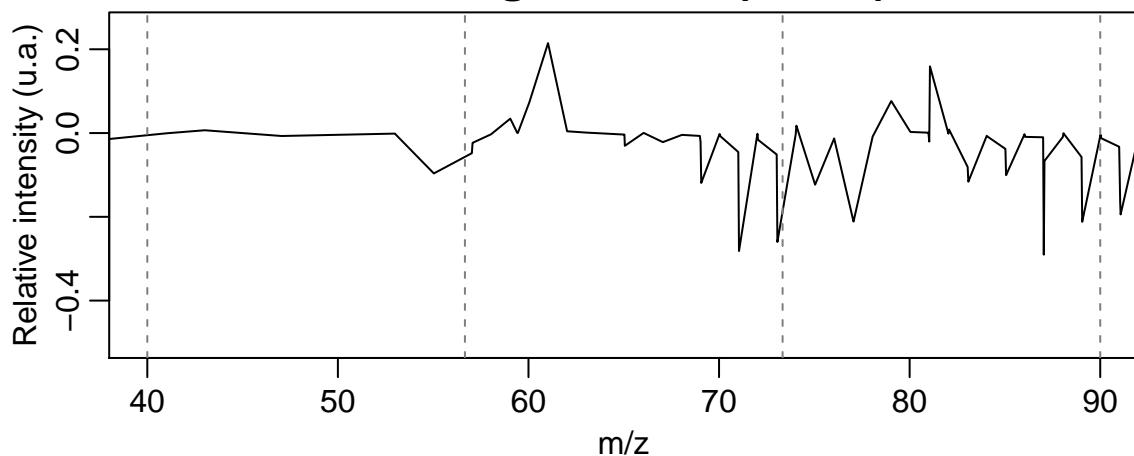
**loadings of PC4 (zoom)**



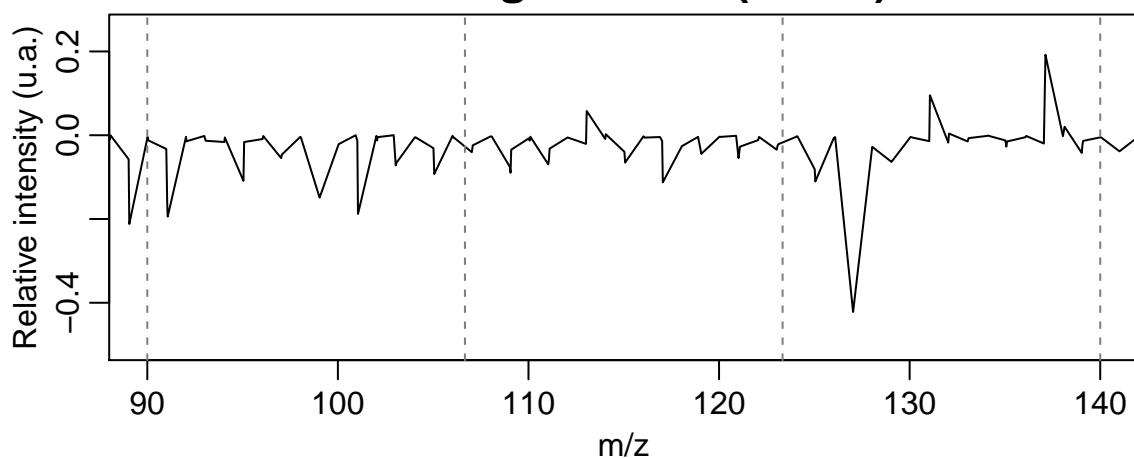
**loadings of PC4 (zoom)**



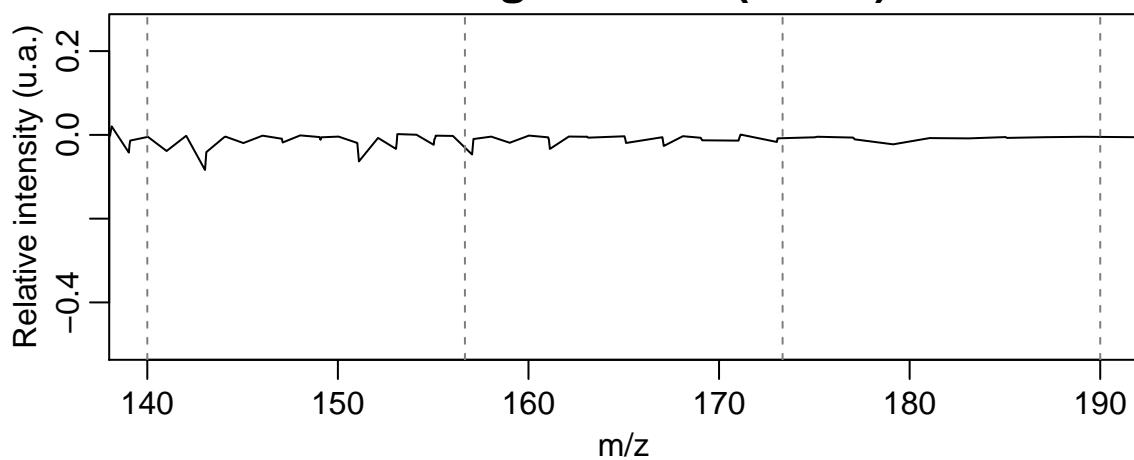
**loadings of PC5 (zoom)**



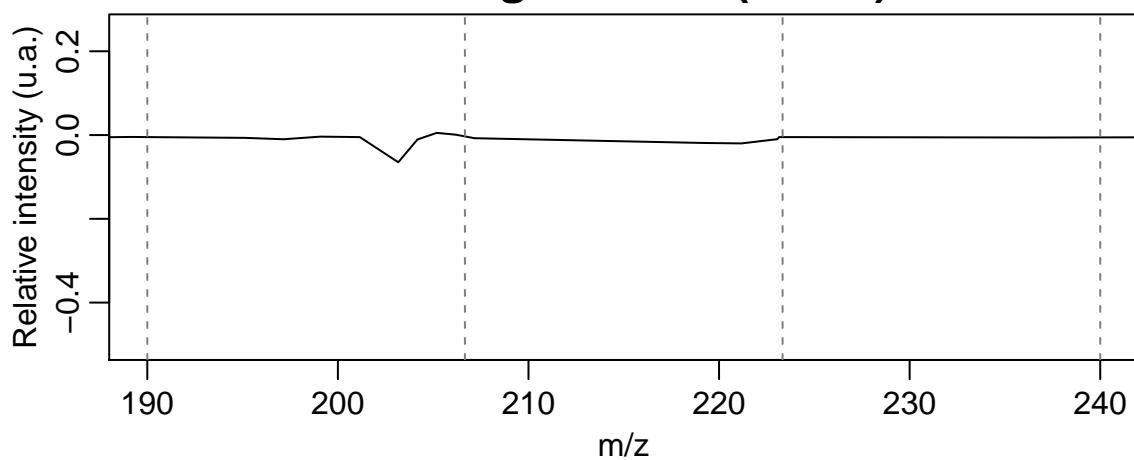
**loadings of PC5 (zoom)**



**loadings of PC5 (zoom)**



**loadings of PC5 (zoom)**



**loadings of PC5 (zoom)**

