

Are n-3 PUFA from microalgae incorporated into membrane- and storage lipids in pig muscle tissues? – A lipidomic approach

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The supporting Information includes the file (Supplemented figure 1.pptx)

S4 Exemplary MS spectra of muscle tissue lipid extracts in the positive ion mode

S5 Exemplary MS² spectra of TAG 52:2 present in muscle tissue lipid extracts

S6 Exemplary MS² spectra of TAG 56:6 present in muscle tissue lipid extracts

S7 Exemplary MS² spectra of TAG 54:6 present in muscle tissue lipid extracts

Supplement Figure 1

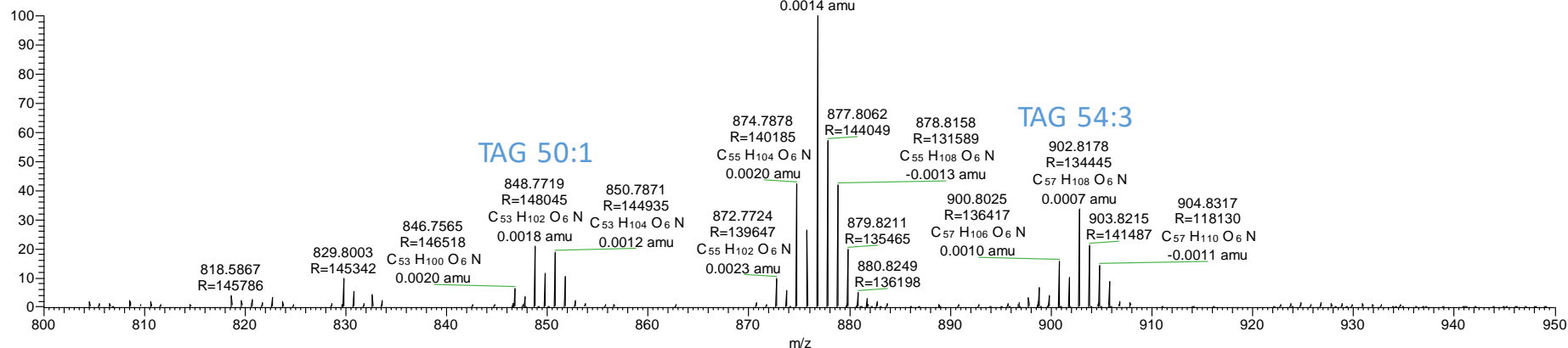
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07/11/18 12:05:48

36722

180711_36722_a #29-743 RT: 0.69-4.65 AV: 7 N
T: FTMS + p NSI Full ms [800.0000-950.0000]

Control (A)



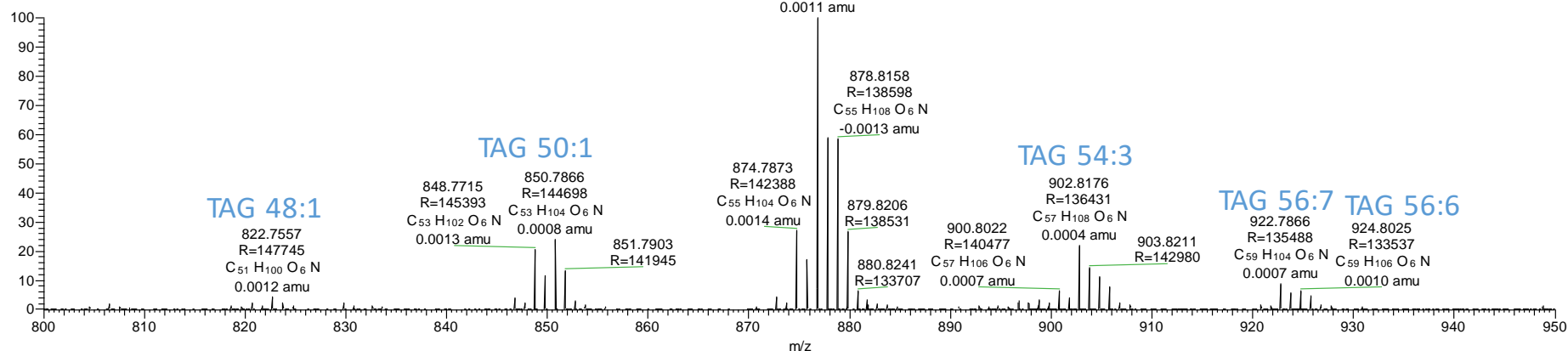
F:\LX_Versions\...\180711_36724_a

07/11/18 12:27:44

36724

180711_36724_a #28-744 RT: 0.68-4.64 AV: 7 N
T: FTMS + p NSI Full ms [800.0000-950.0000]

Microalgae (B)



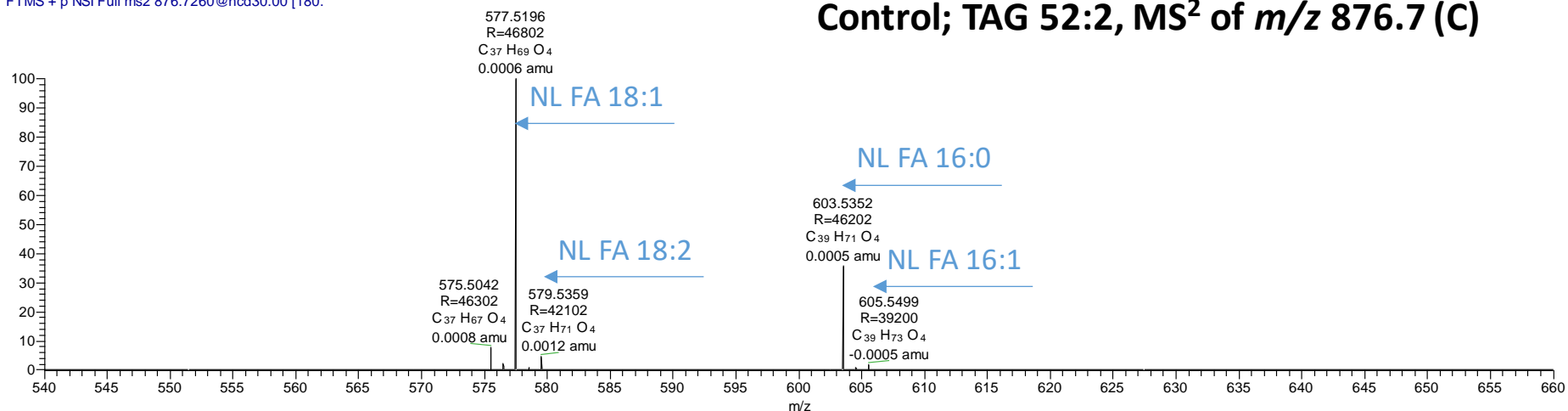
S4 Exemplary MS spectra of muscle tissue lipid extracts in the positive ion mode. TAGs are ionized as $[M+NH_4]^+$ adduct ions.

The m/z region 800-950 is shown for A) control diet B) diet supplemented with microalgae.

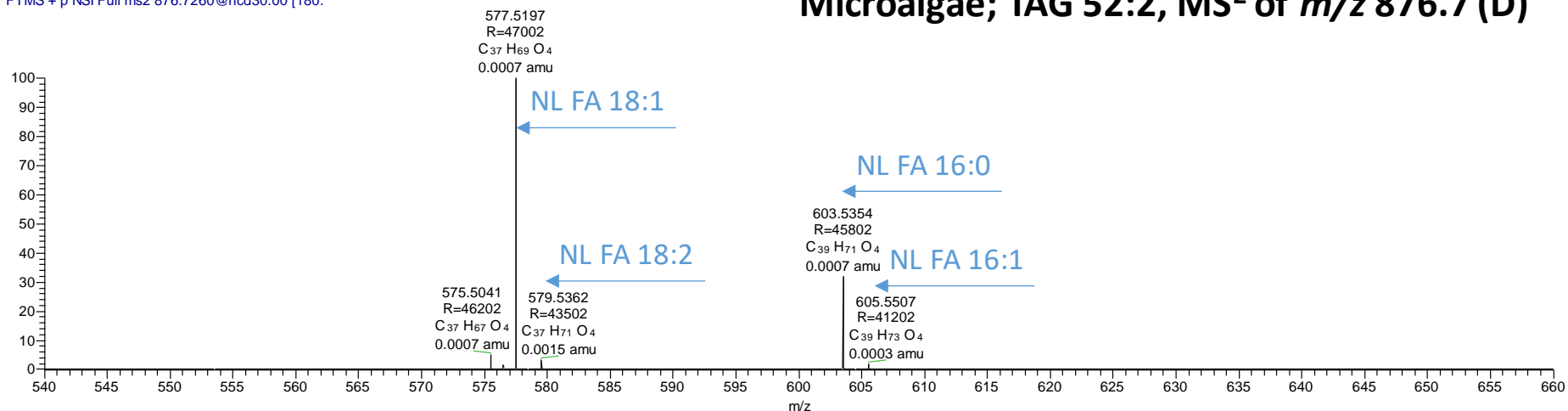
Main TAG species are assigned including m/z , resolution (R), chemical sum composition and mass difference.

Supplement Figure 2

180711_36722_a #617 RT: 4.15 AV: 1 NL: 3.72E
T: FTMS + p NSI Full ms2 876.7260@hcd30.00 [180.



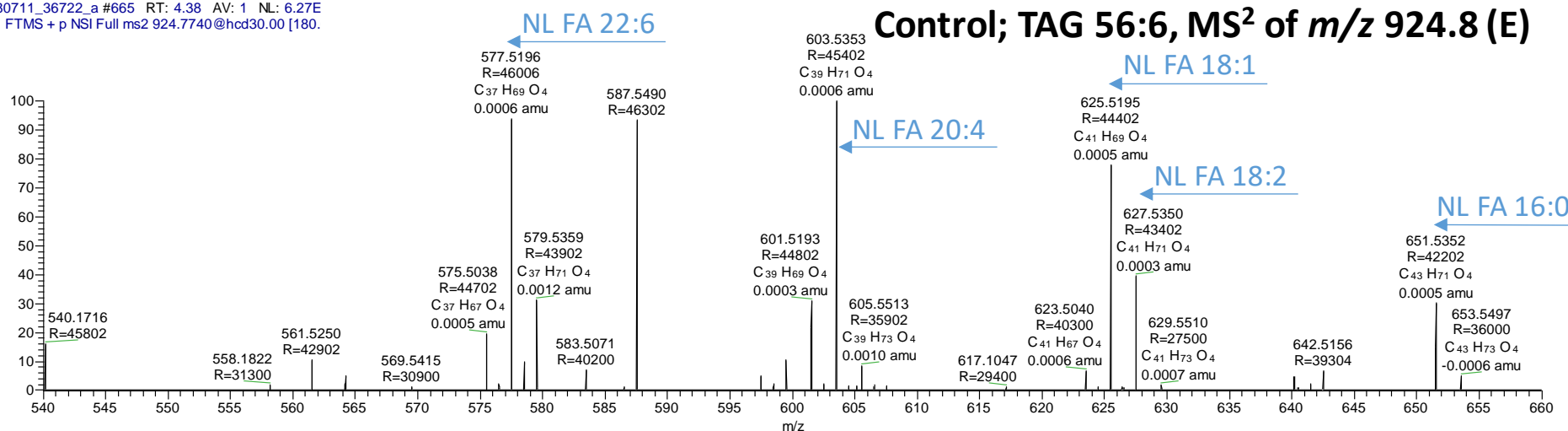
180711_36724_a #616 RT: 4.15 AV: 1 NL: 1.08E
T: FTMS + p NSI Full ms2 876.7260@hcd30.00 [180.



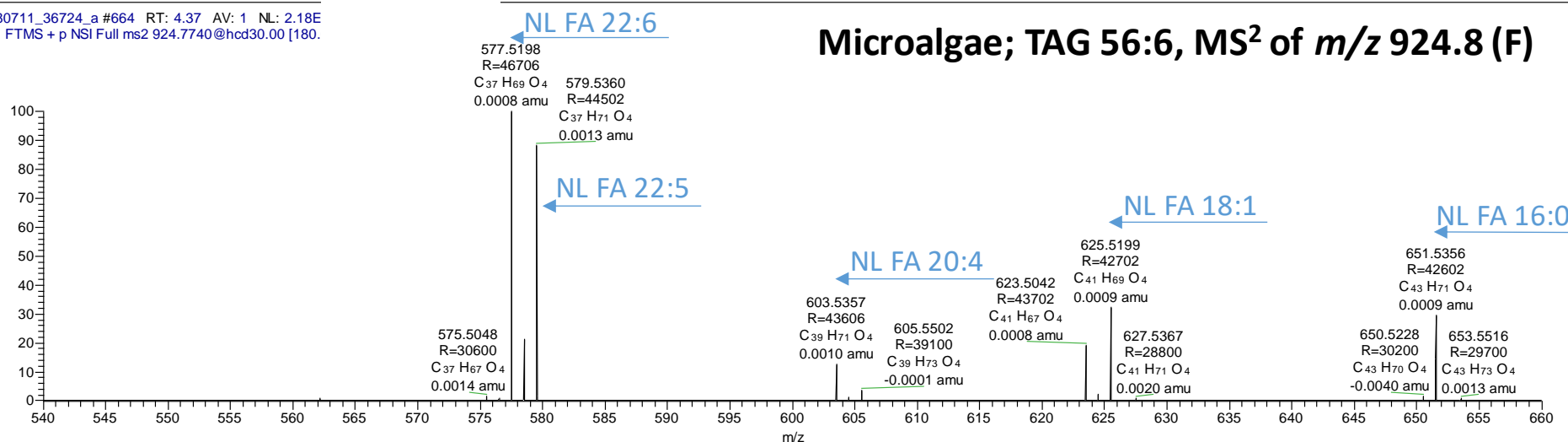
S5 Exemplary MS² spectra of TAG 52:2 present in muscle tissue lipid extracts C) control diet D) diet supplemented with microalgae. Major peaks are assigned according to earlier described fragmentation of [TAG+NH₄]⁺ adduct ions that undergo a neutral loss (NL) of the fatty acid and ammonia [35]. The spectral region (*m/z* 540-660) is shown for better overview on the resulting [DAG-OH]⁺ fragment ions.

Supplement Figure 3

180711_36722_a #665 RT: 4.38 AV: 1 NL: 6.27E
T: FTMS + p NSI Full ms2 924.7740@hcd30.00 [180.



180711_36724_a #664 RT: 4.37 AV: 1 NL: 2.18E
T: FTMS + p NSI Full ms2 924.7740@hcd30.00 [180.

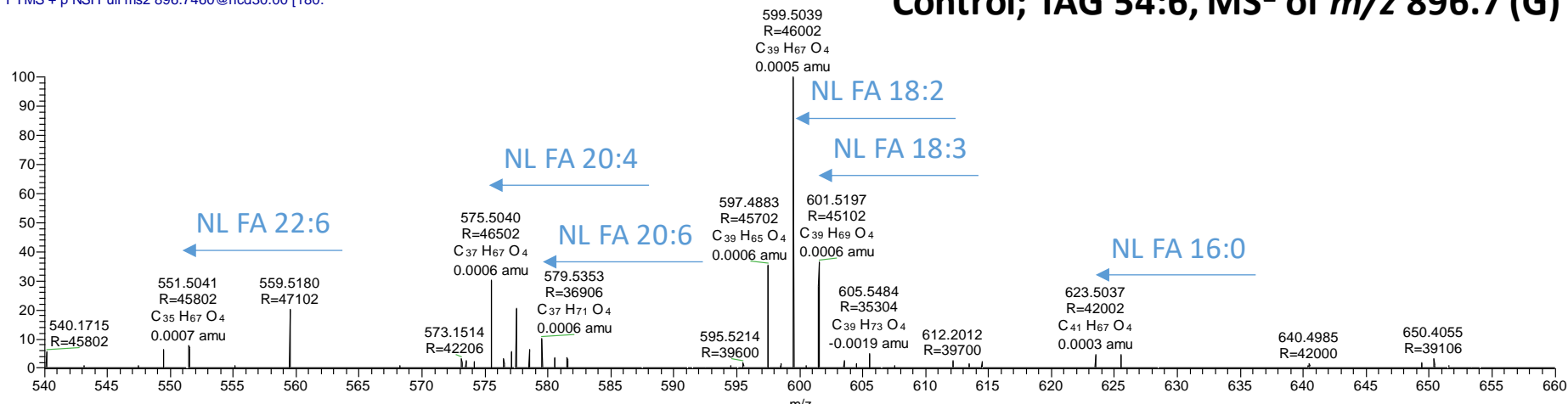


S6 Exemplary MS² spectra of TAG 56:6 present in muscle tissue lipid extracts E) control diet F) diet supplemented with microalgae. Major peaks are assigned according to earlier described fragmentation of [TAG+NH₄]⁺ adduct ions that undergo a neutral loss (NL) of the fatty acid and Ammonia [35]. The spectral region (*m/z* 540-660) is shown for better overview on the resulting [DAG-OH]⁺ fragment ions.

Supplement Figure 4

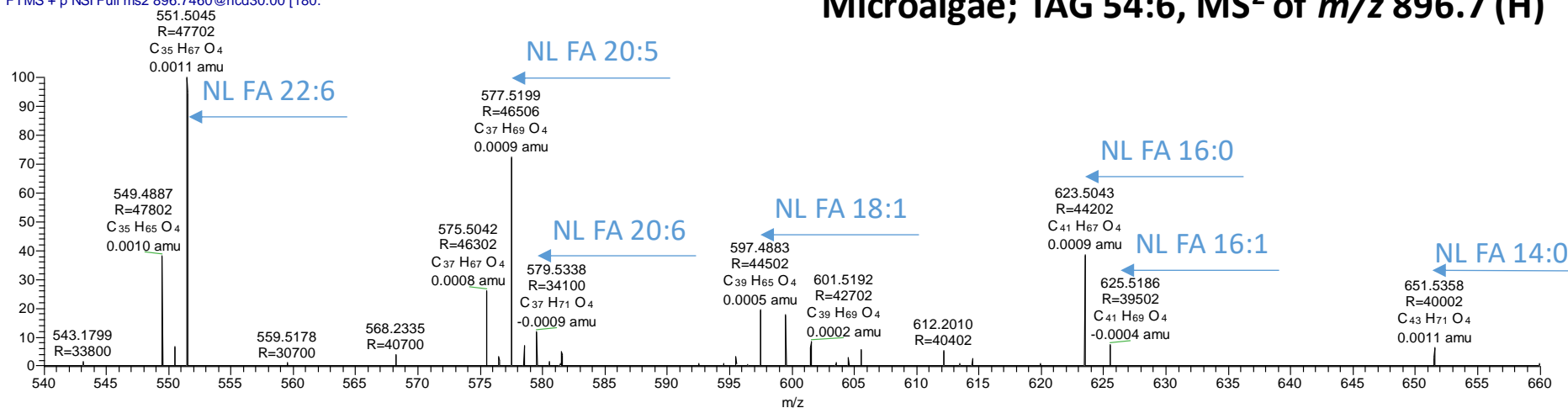
180711_36722_a #637 RT: 4.24 AV: 1 NL: 1.86E
T: FTMS + p NSI Full ms2 896.7460@hcd30.00 [180].

Control; TAG 54:6, MS² of *m/z* 896.7 (G)



180711_36724_a #636 RT: 4.24 AV: 1 NL: 7.50E
T: FTMS + p NSI Full ms2 896.7460@hcd30.00 [180].

Microalgae; TAG 54:6, MS² of *m/z* 896.7 (H)



S7 Exemplary MS² spectra of TAG 54:6 present in muscle tissue lipid extracts (G) control diet (H) diet supplemented with microalgae. Major peaks are assigned according to earlier described fragmentation of [TAG+NH₄]⁺ adduct ions that undergo a neutral loss (NL) of the fatty acid and ammonia [35]. The spectral region (*m/z* 540–660) is shown for better overview on the resulting [DAG-OH]⁺ fragment ions.