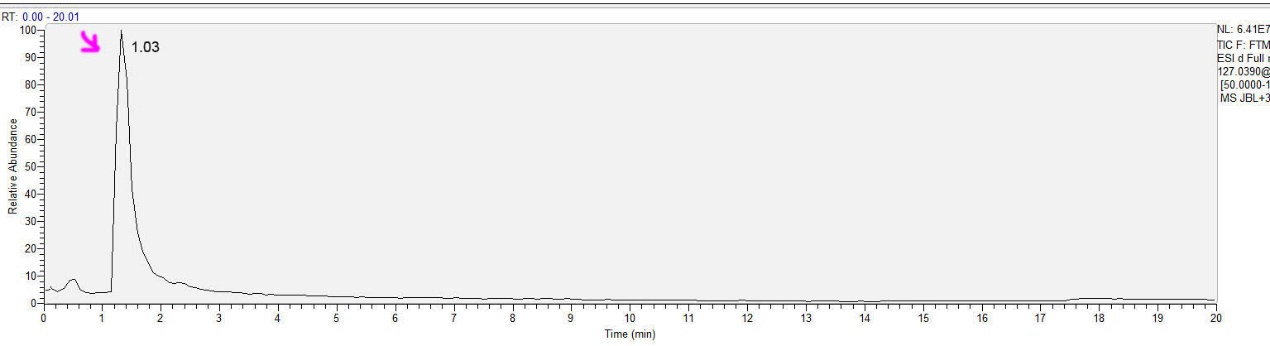
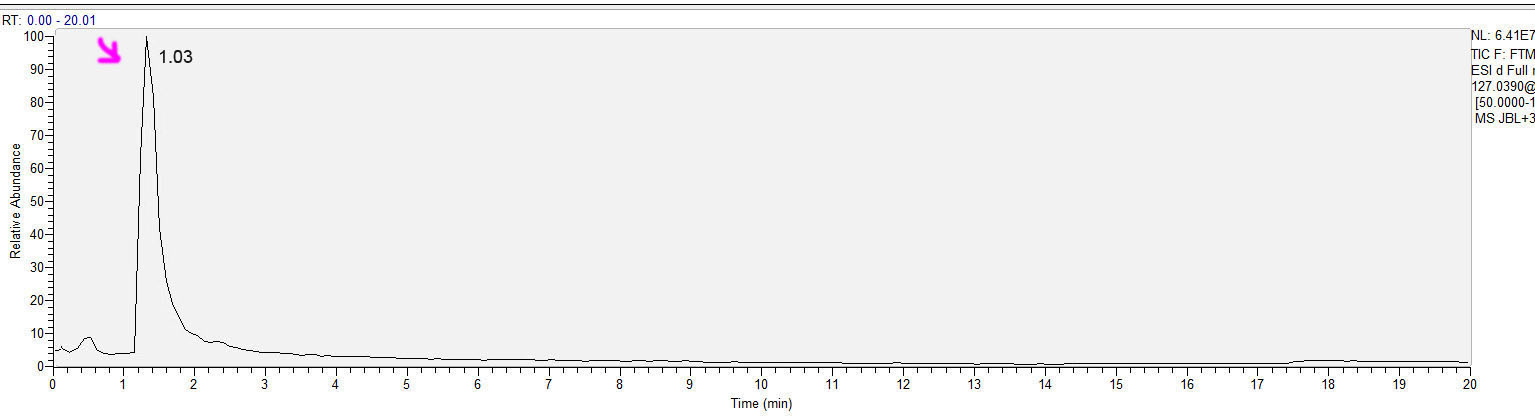
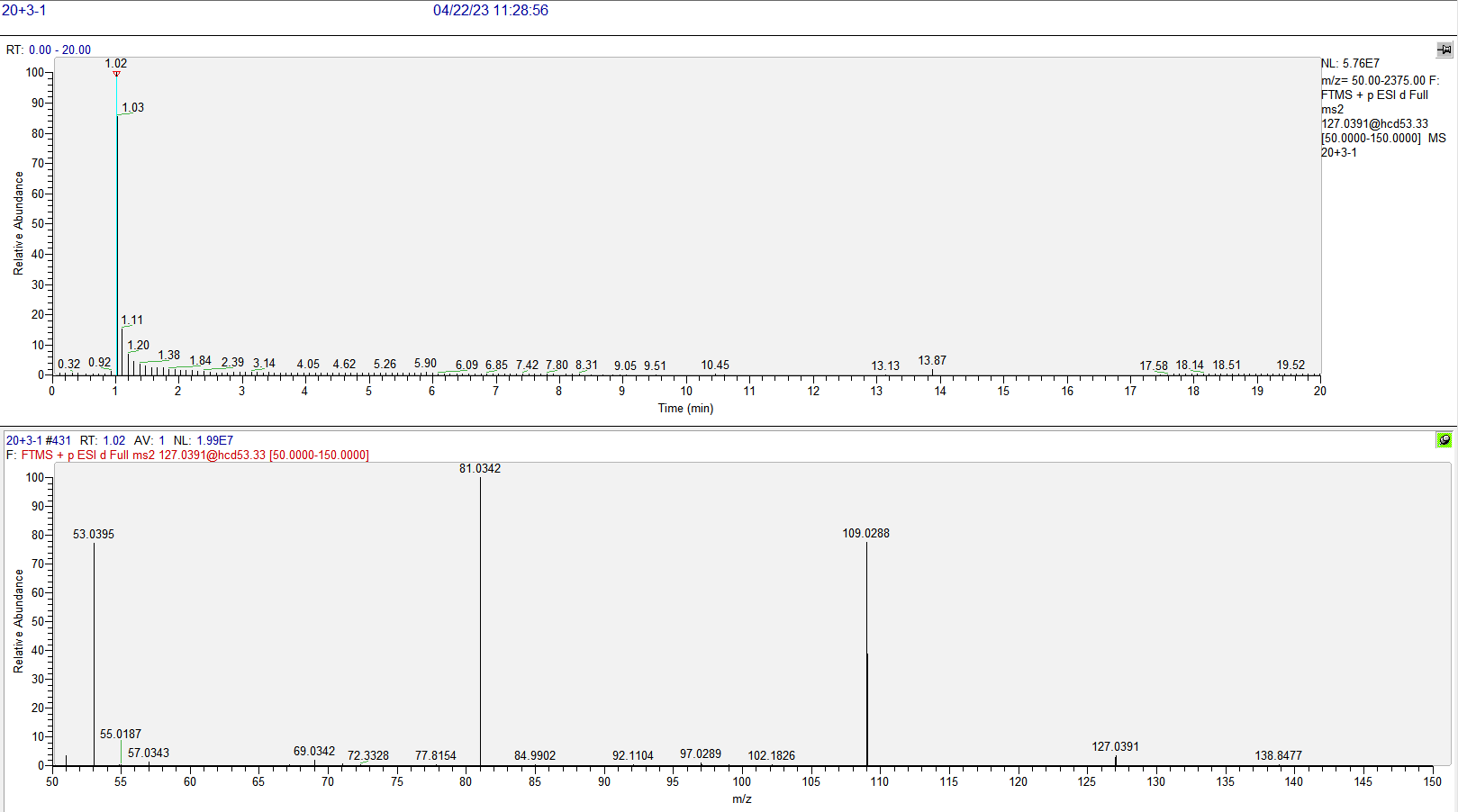
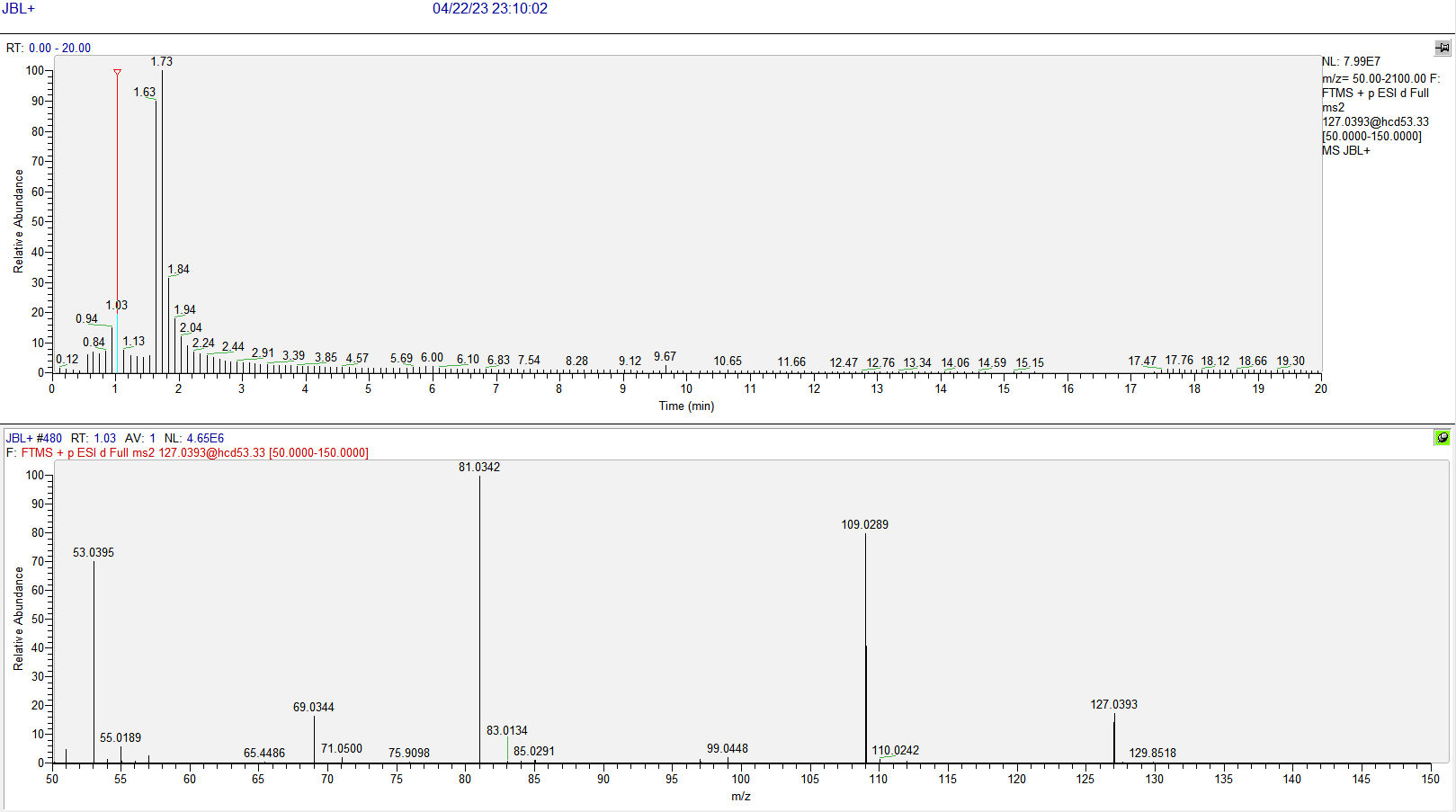
*Suppl. 2.8* Identification of 5-hydroxymethylfurfural (CAS 67-47-0, C6H6O3, M.W. 126.111).



**A**



**B**



**C**

**A**

**A**

**A**

Fig. S1.2.8 The main results of 5-hydroxymethylfurfural (CAS 67-47-0, C6H6O3) and its corresponding peak in the TIC diagram using UPLC-Q-Orbitrap-MS analysis. (**A**) The chromatographic peak in the extract. (**B**) The MS/MS fragments of standard 5-hydroxymethylfurfural. (**C**)The MS/MS spectra from chromatographic peak in the extract.

**Note**：The m/z values in purple are the calculated ones. The m/z calculation was based on the relative atomic masses of C (12.0000), H (1.007825), O (15.994915), and N (14.003074)[1]

**Identification**: As seen in Fig. S1.2.8, the extract ion peak, MS/MS spectra, and characteristic pears were highly similar. Thus, the chromatographic peaks in the JBL extracts were identified as 5-hydroxymethylfurfural (CAS 67-47-0).

**References**:

[1] JÜRGEN H GROSS, *Mass spectrometry*. 2013, Beijing: Science press.