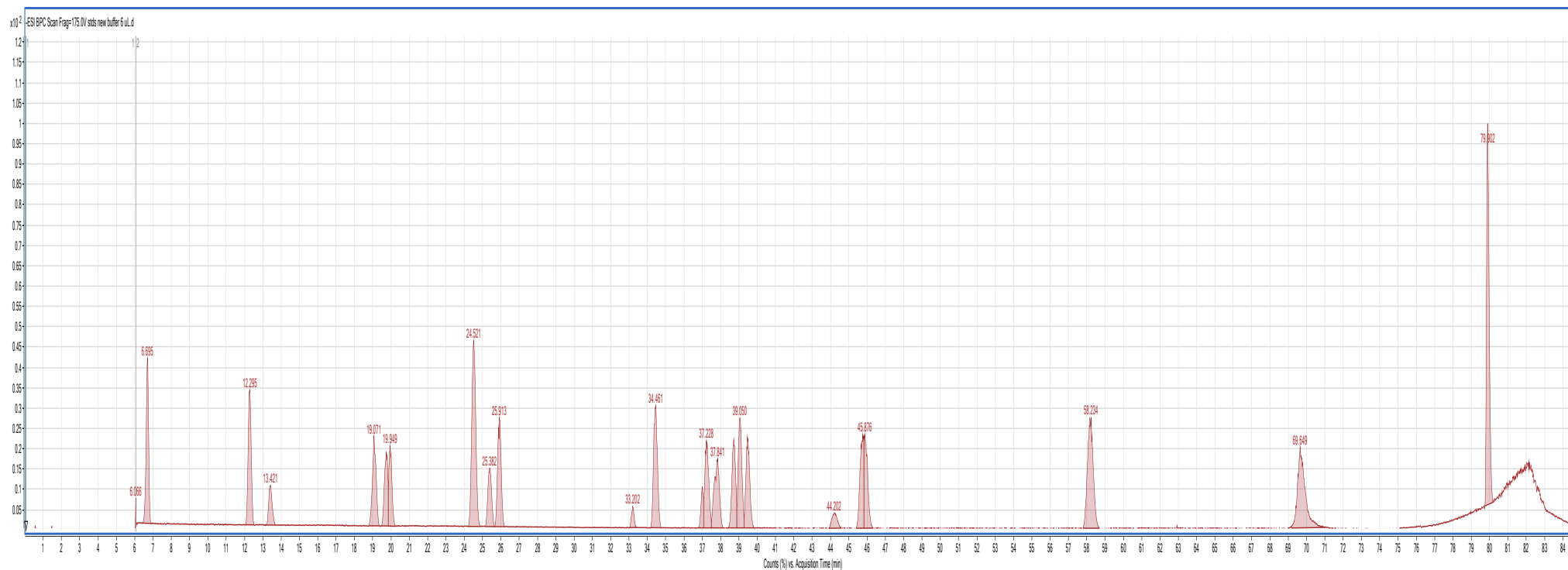


**Table 1S.** Identification and characterization of phenolic compounds through HPLC and LCMS.

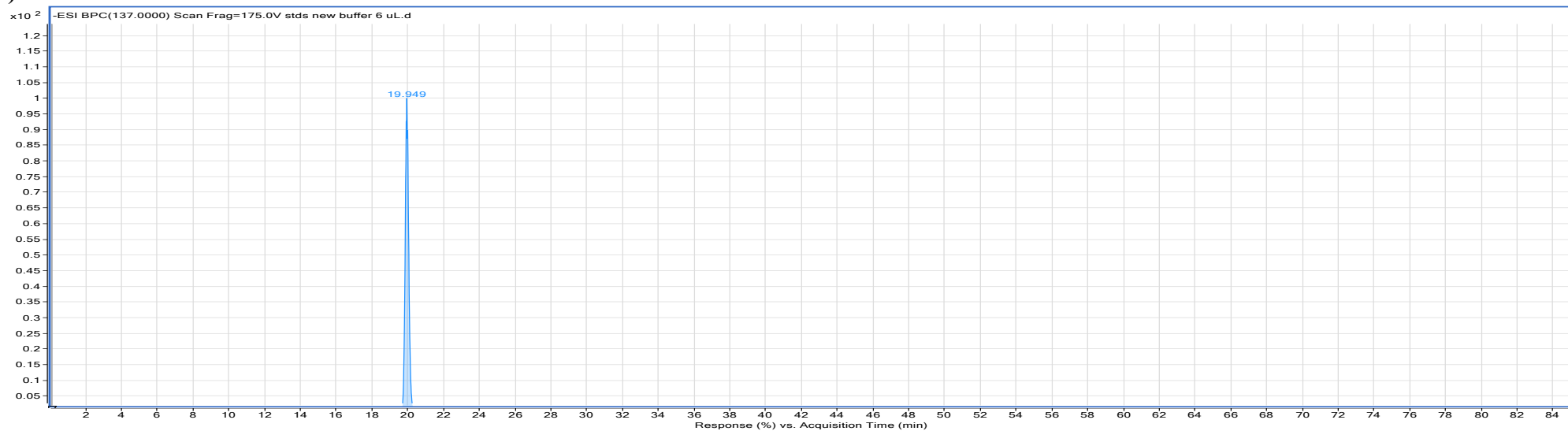
No.	Compound	Molecular Formula	RT (min)	MW (m/z)	[M - H] <sup>-</sup> (m/z)	Standard Equation (0 - 250 µg/mL)
1	Gallic acid	C <sub>7</sub> H <sub>6</sub> O <sub>5</sub>	6.695	170.0215	169.0142	y = 2643x - 4585.4
2	<i>p</i> -hydroxybenzoic acid	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	19.071	138.0317	137.0244	y = 1440.6x - 2741.4
3	Catechin	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	19.681	290.0790	289.0717	y = 809.19x - 2154.2
4	Chlorogenic acid	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>	19.949	354.0951	353.0878	y = 3124.5x - 10872
5	Caffeic acid	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	24.521	180.0423	179.0350	y = 5843.3x - 12335
6	Coumaric acid	C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>	34.461	164.0473	163.0400	y = 6892.7x - 13346
7	Kaempferol	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	79.902	286.0477	285.0437	y = 3736.2x - 34169

RT stands for “Retention Time”, MW stands for molecular weight and [M - H]<sup>-</sup> stands for molecular ions observed in negative ionization mass spectra

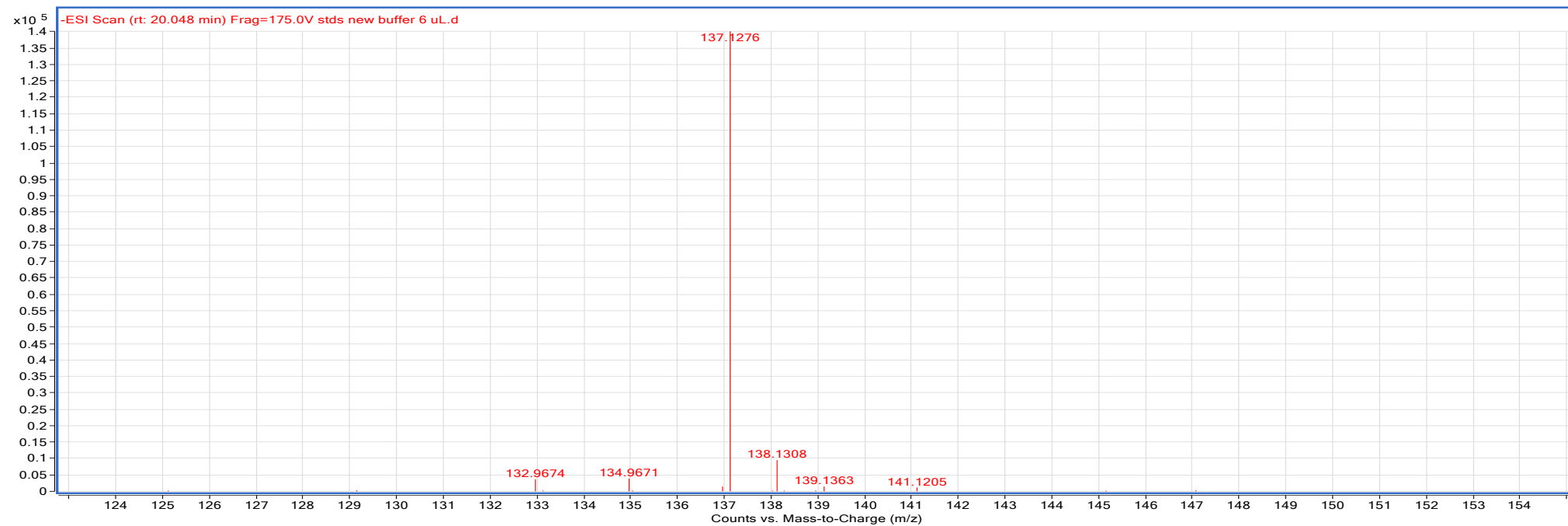
(a)



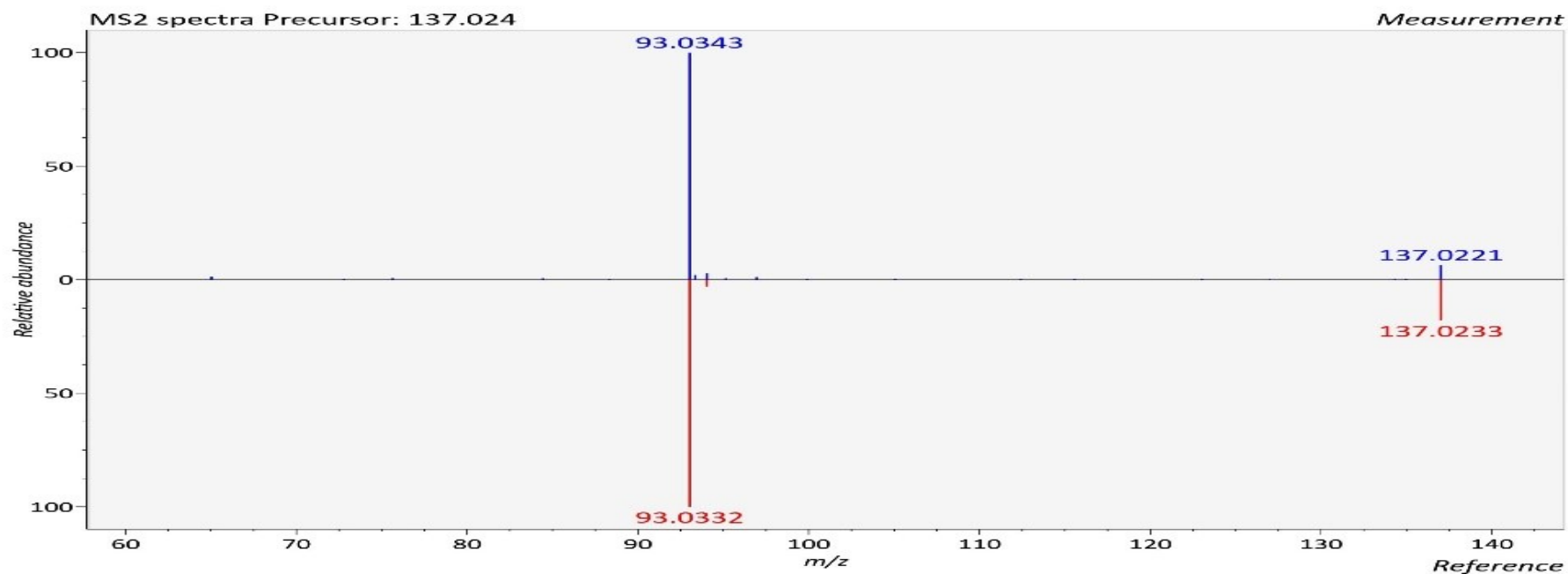
(b)



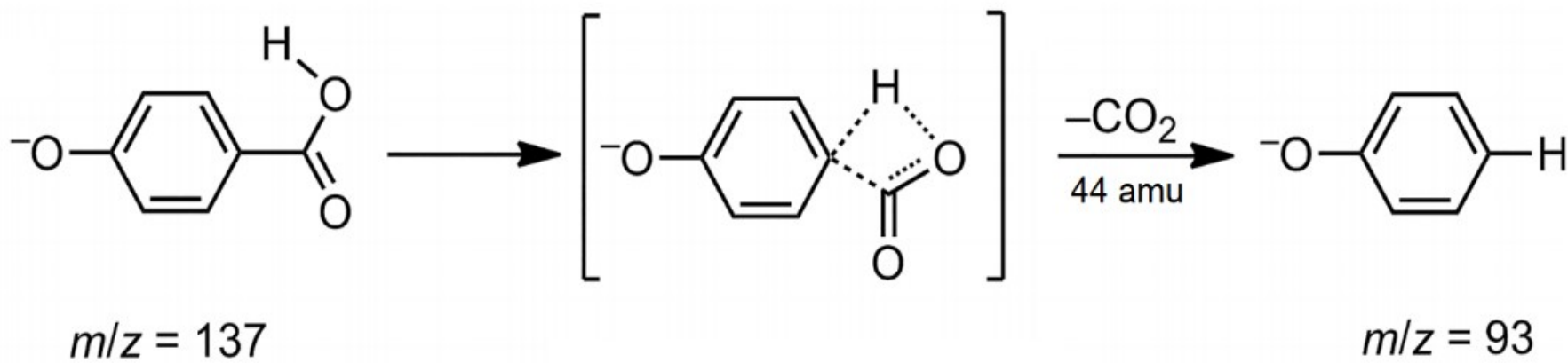
(c)

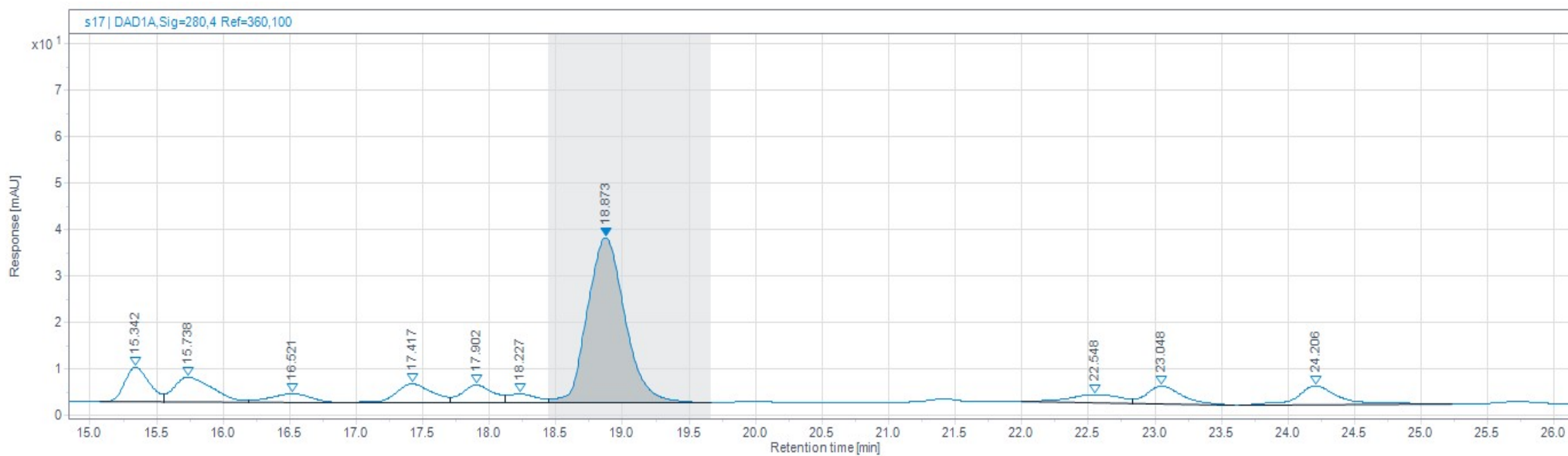
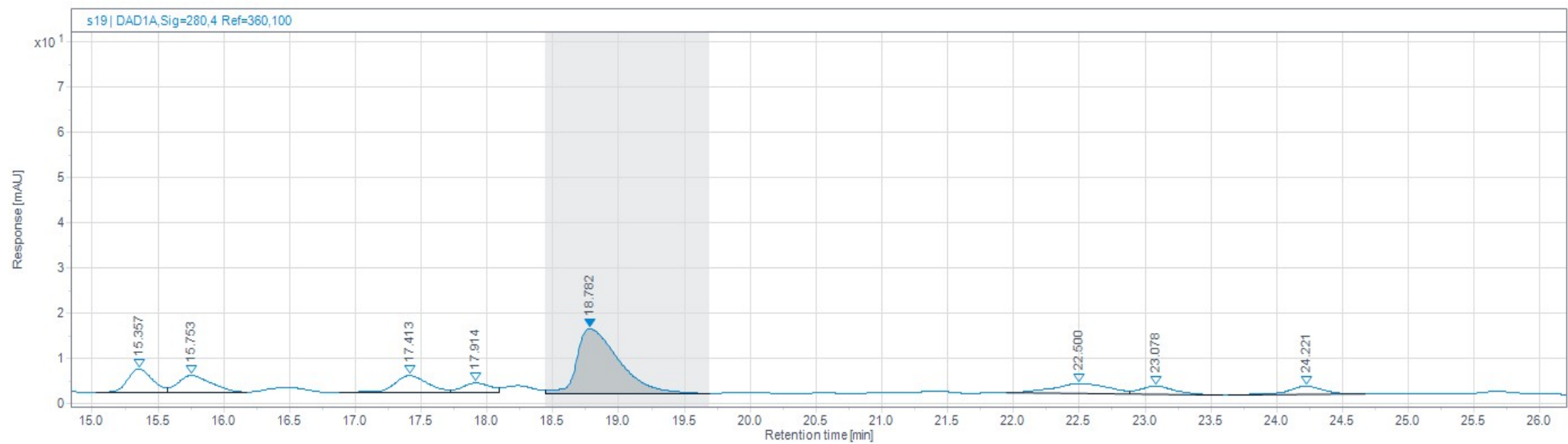


(d)

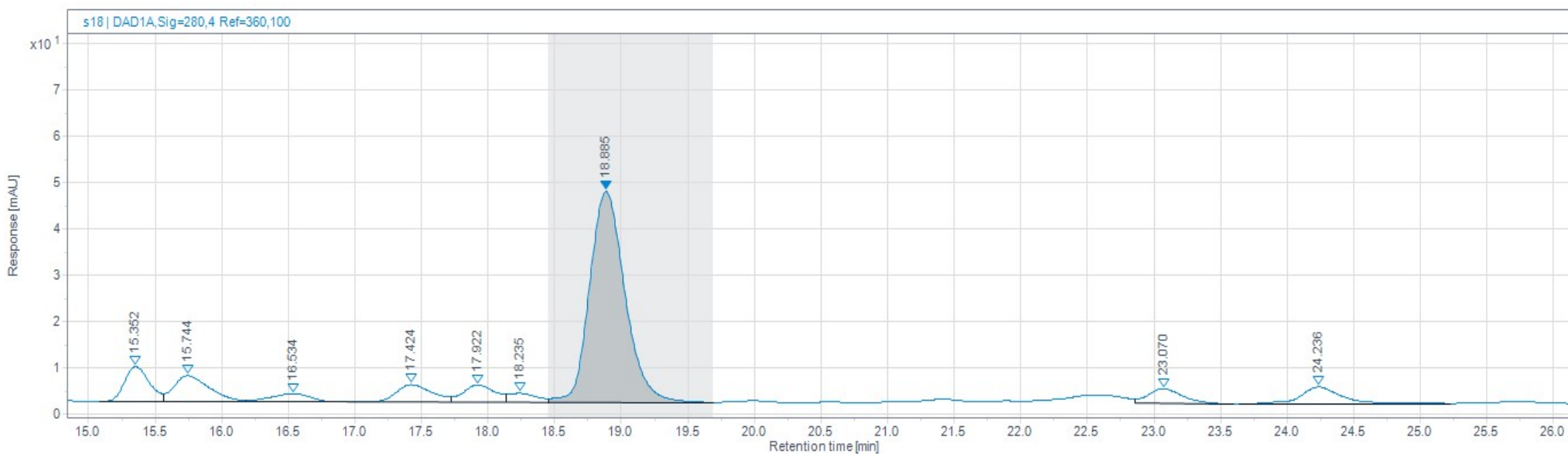


(e)

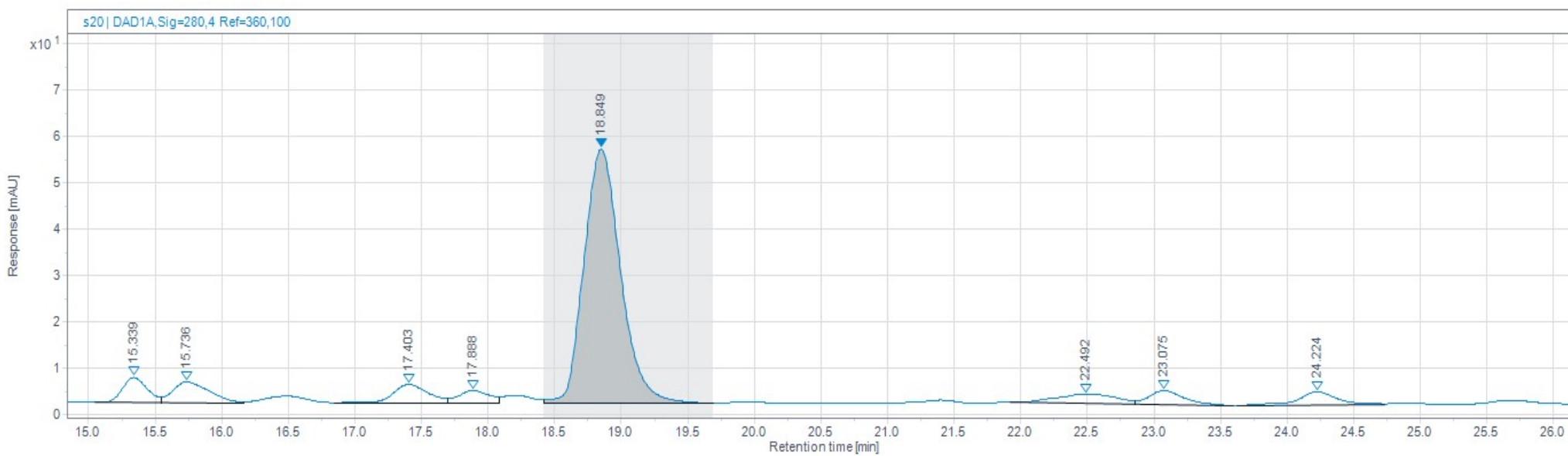


**(f)****(g)**

**h)**



**i)**



**Figure 1S: HPLC Separation and LCMS characterization of 21 phenolic compounds standard mixture.** (a) LCMS Chromatogram of phenolics standard mixture, extracted and characterized through high-performance liquid chromatography coupled with electrospray ionization-quadrupole-time of flight-mass spectrometry (LC-ESI-QTOF-MS/MS). (b) A chromatograph of *p*-hydroxybenzoic acid (Compound 2, Table 1S), Retention time (RT = 19.071 min) in the negative mode of ionization (ESI<sup>-</sup> / [M – H]<sup>-</sup>); (c) Mass spectra of *p*-hydroxybenzoic acid with observed/precursor of *m/z* 137.1276; (d) MS / MS spectrum of *p*-hydroxybenzoic acid reflecting the product ion of *m/z* 93, confirmation via online LC-MS library and database; (e) Fragmentation of *p*-hydroxybenzoic acid in negative mode [M – H]<sup>-</sup>, with observed/precursor of *m/z* 137, showing product ion of *m/z* 93 due to the loss of a CO<sub>2</sub> (44 Da); (f) A HPLC chromatogram of *p*-hydroxybenzoic acid (λ 280 nm) in Oxheart tomato sample; (g) Kumato tomato sample; (h) Green Zebra tomato sample and (i) Roma tomato sample.