**Supporting Information**

**Sesquiterpenes from *Ambrosia artemisiifolia* and their allelopathy**

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**Figure. S1.**  The UV spectrum of compound **1**

**Figure. S2.** The HR-ESIMS spectrum of compound **1**

**Figure. S3.** The 1H-NMR spectrum of compound **1**

**Figure. S4.** The 13C-NMR spectrum of compound **1**

**Figure. S5.** The HSQC spectrum of compound **1**

**Figure. S6.** The HMBC spectrum of compound **1**

**Figure. S7.** The NOESY spectrum of compound **1**

**Figure. S8.** The UV spectrum of compound **2**

**Figure. S9.** The HR-ESIMS spectrum of compound **2**

**Figure. S10.** The 1H-NMR spectrum of compound **2**

**Figure. S11.** The 13C-NMR spectrum of compound **2**

**Figure. S12.**  The HSQC spectrum of compound **2**

**Figure. S13.** The HMBC spectrum of compound **2**

**Figure. S14.** The NOESY spectrum of compound **2**

**Figure. S15.**  The UV spectrum of compound **3**

**Figure. S16.** The HR-ESIMS spectrum of compound **3**

**Figure. S17.** The 1H-NMR spectrum of compound **3**

**Figure. S18.** The 13C-NMR spectrum of compound **3**

**Figure. S19.**  The HSQC spectrum of compound **3**

**Figure. S20.** The HMBC spectrum of compound **3**

**Figure. S21.** The NOESY spectrum of compound **3**

**Figure. S22.**  The UV spectrum of compound **4**

**Figure. S23.** The HR-ESIMS spectrum of compound **4**

**Figure. S24.** The 1H-NMR spectrum of compound **4**

**Figure. S25.** The 13C-NMR spectrum of compound **4**

**Figure. S26.** The HSQC spectrum of compound **4**

**Figure. S27.** The HMBC spectrum of compound **4**

**Figure. S28.** The NOESY spectrum of compound **4**

**Figure. S29.** The MS spectra of compounds **1** in the TIC chromatogram.

**Figure. S30.** The MS spectra of compounds **2** in the TIC chromatogram.

**Figure. S31.** The MS spectra of compounds **3** in the TIC chromatogram.

**Figure. S32.** The MS spectra of compounds **4** in the TIC chromatogram.

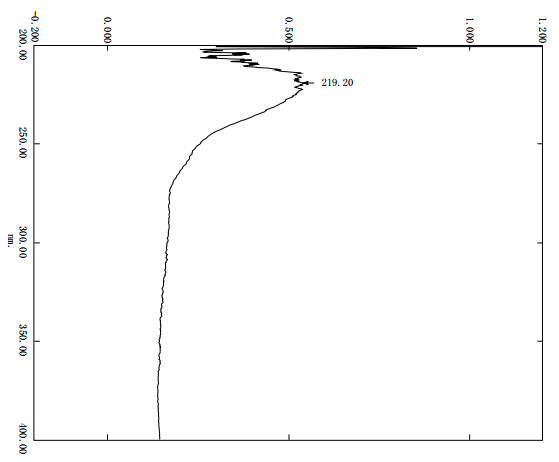
**Figure. S33.** The MS/MS spectra of compounds **1** in the TIC chromatogram.

**Figure. S34.** The MS/MS spectra of compounds **2** in the TIC chromatogram.

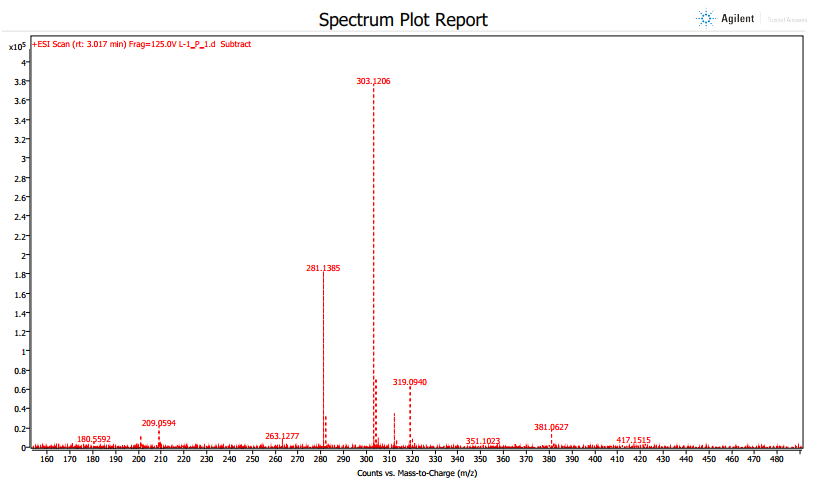
**Figure. S35.** The MS/MS spectra of compounds **3** in the TIC chromatogram.

**Figure. S36.** The MS/MS spectra of compounds **4** in the TIC chromatogram.

**Figure. S1.**



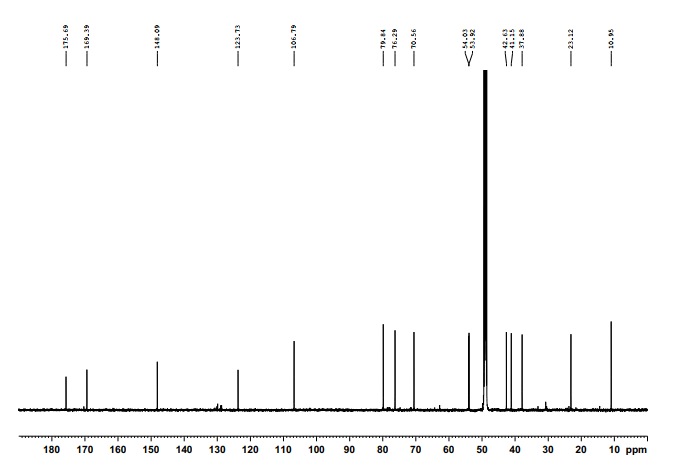
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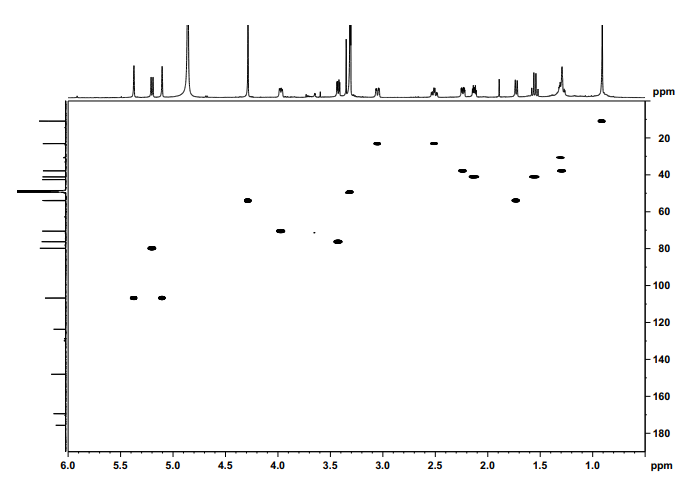
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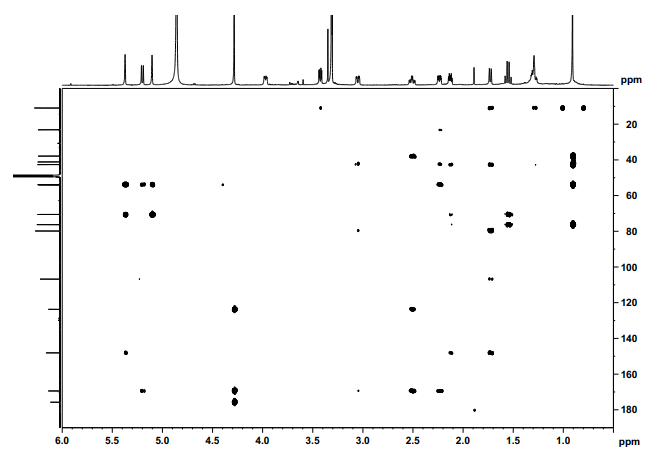
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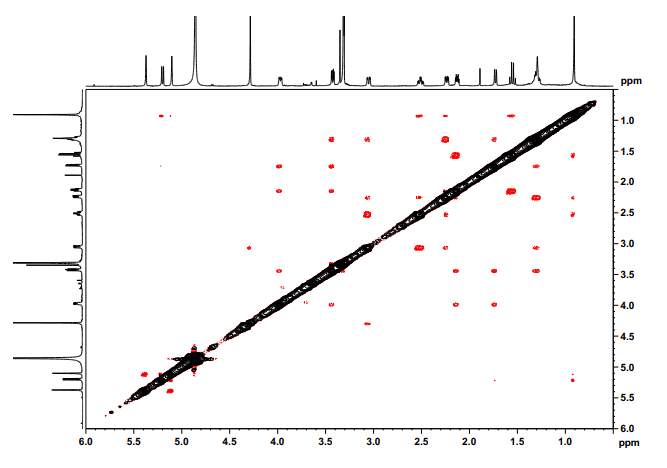
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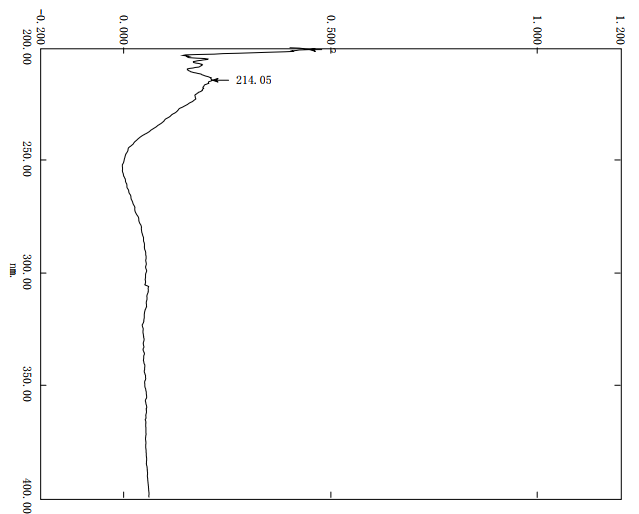
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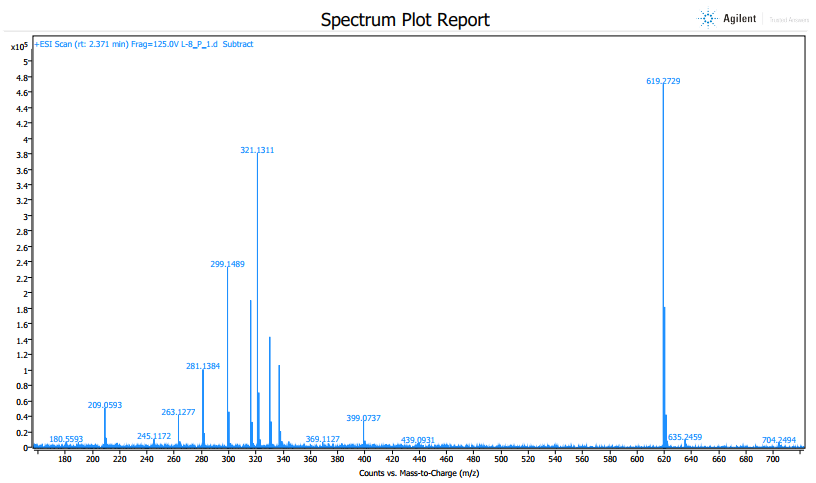
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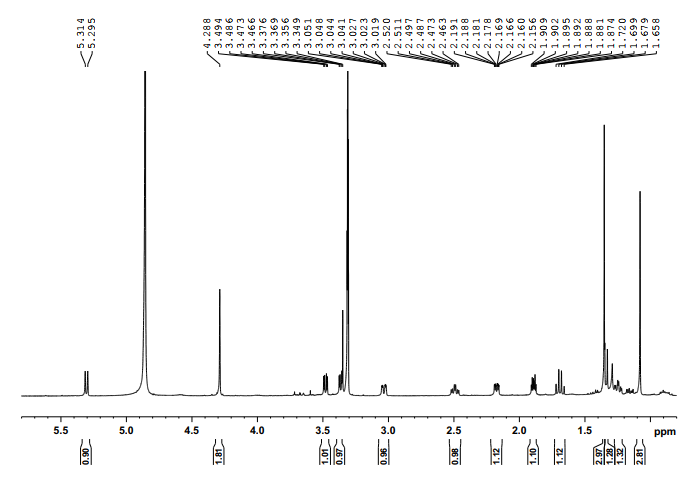
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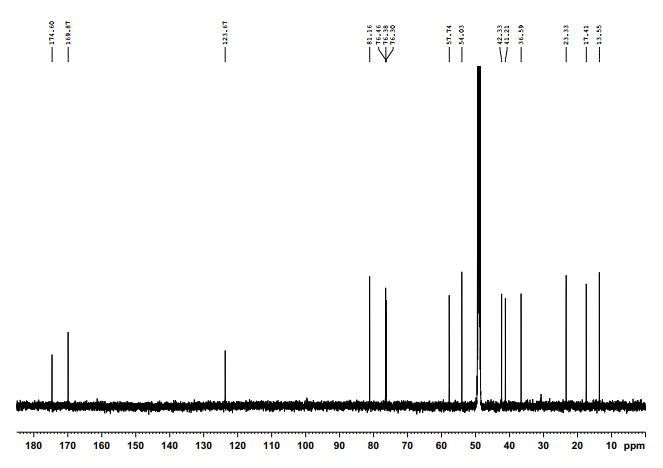
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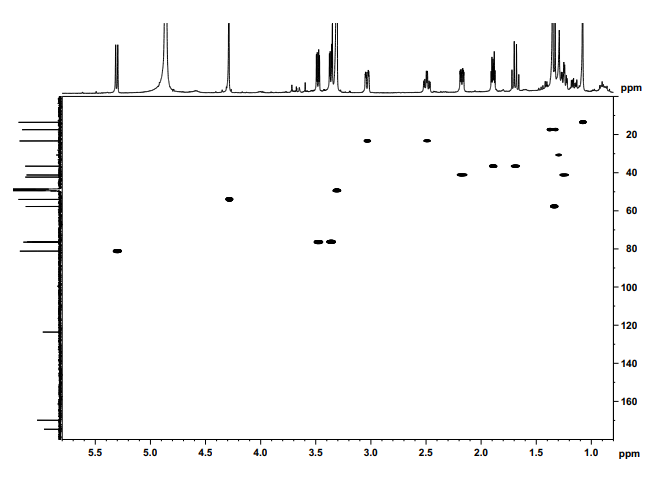
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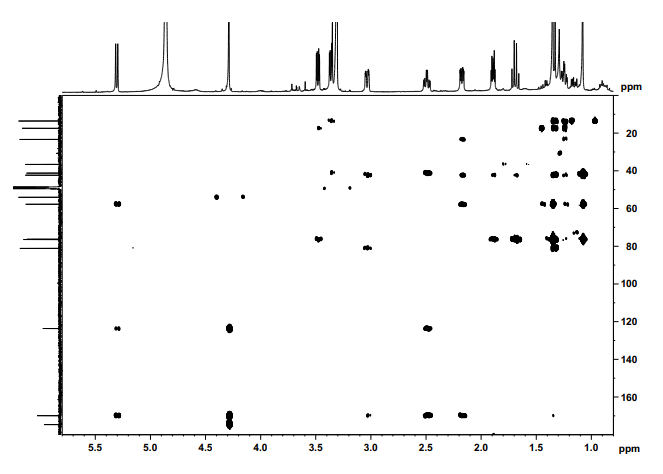
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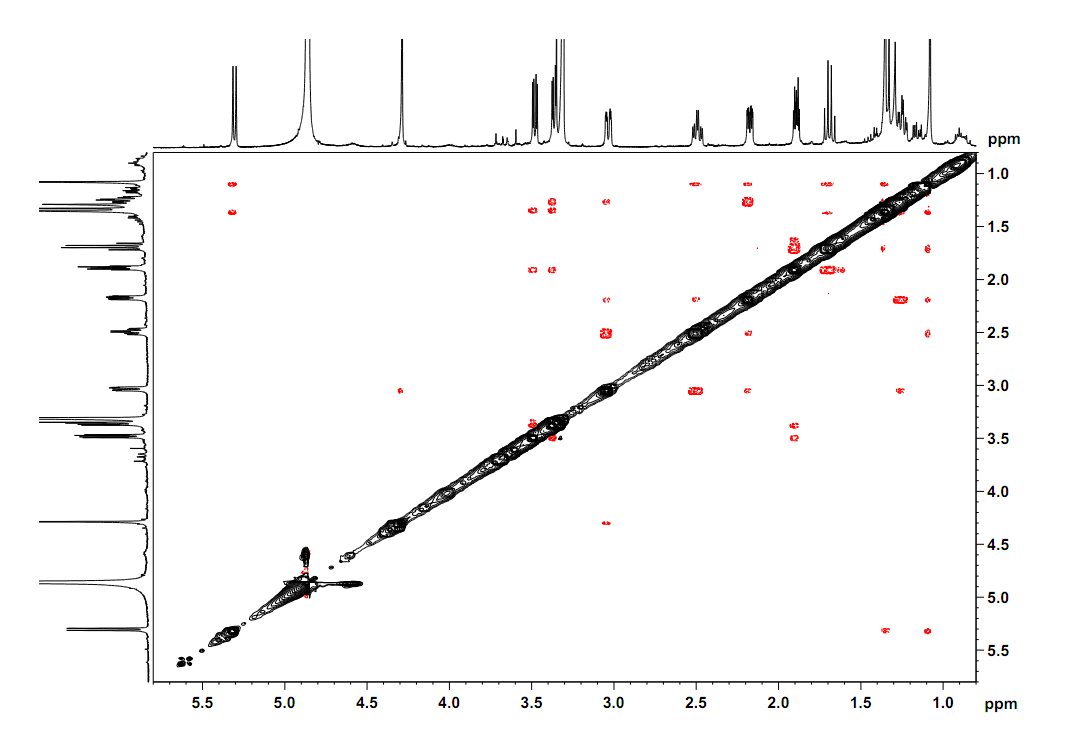
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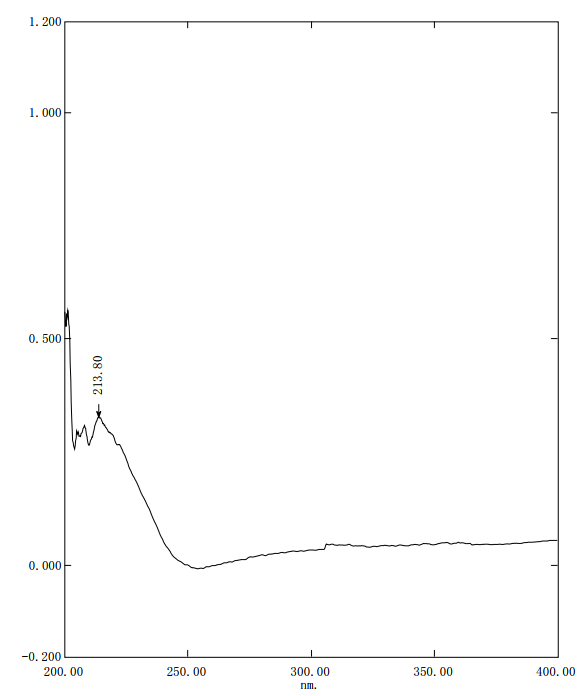
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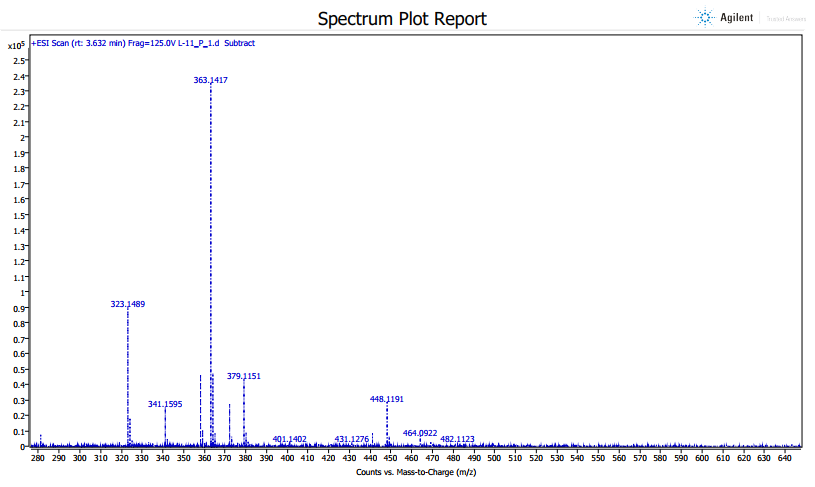
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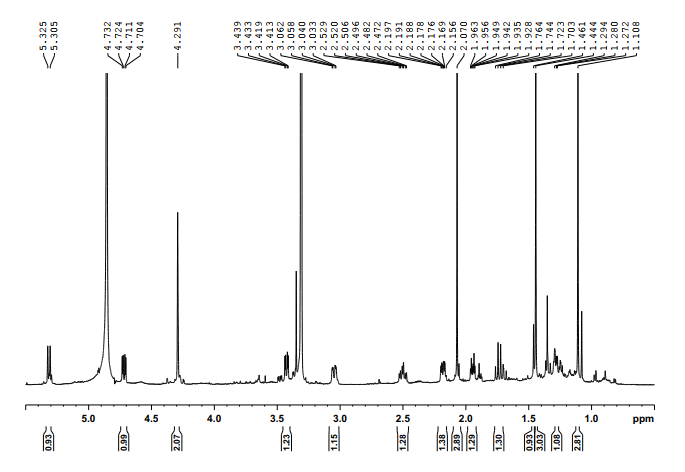
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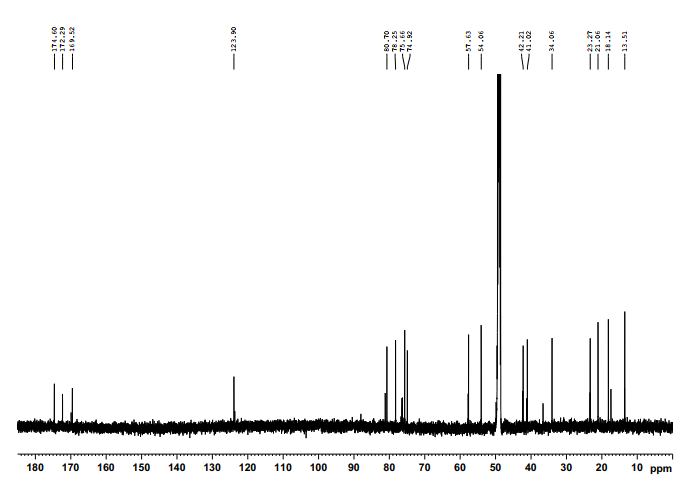
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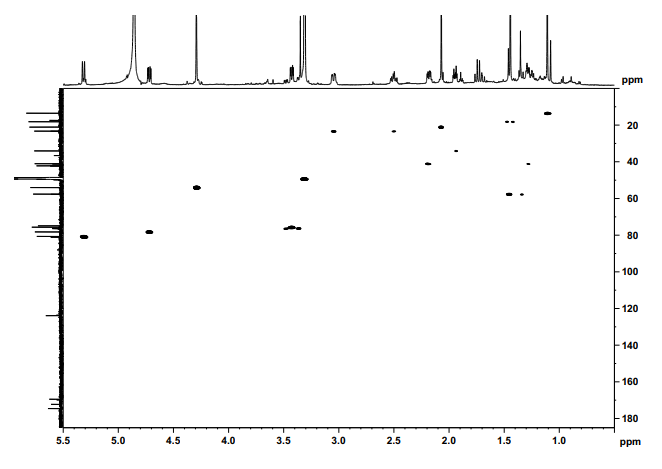
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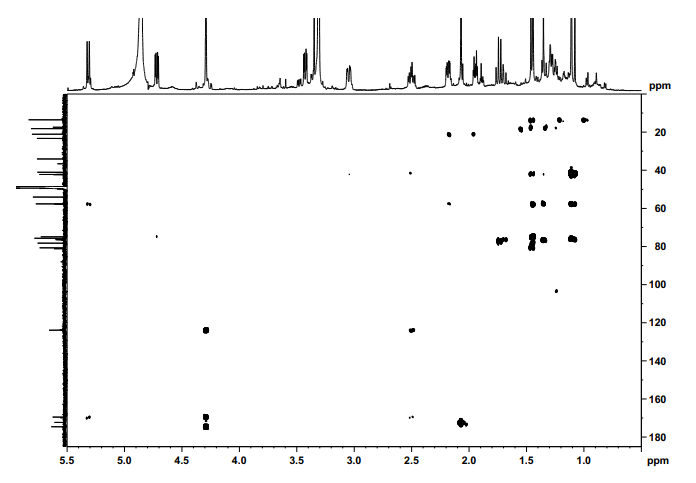
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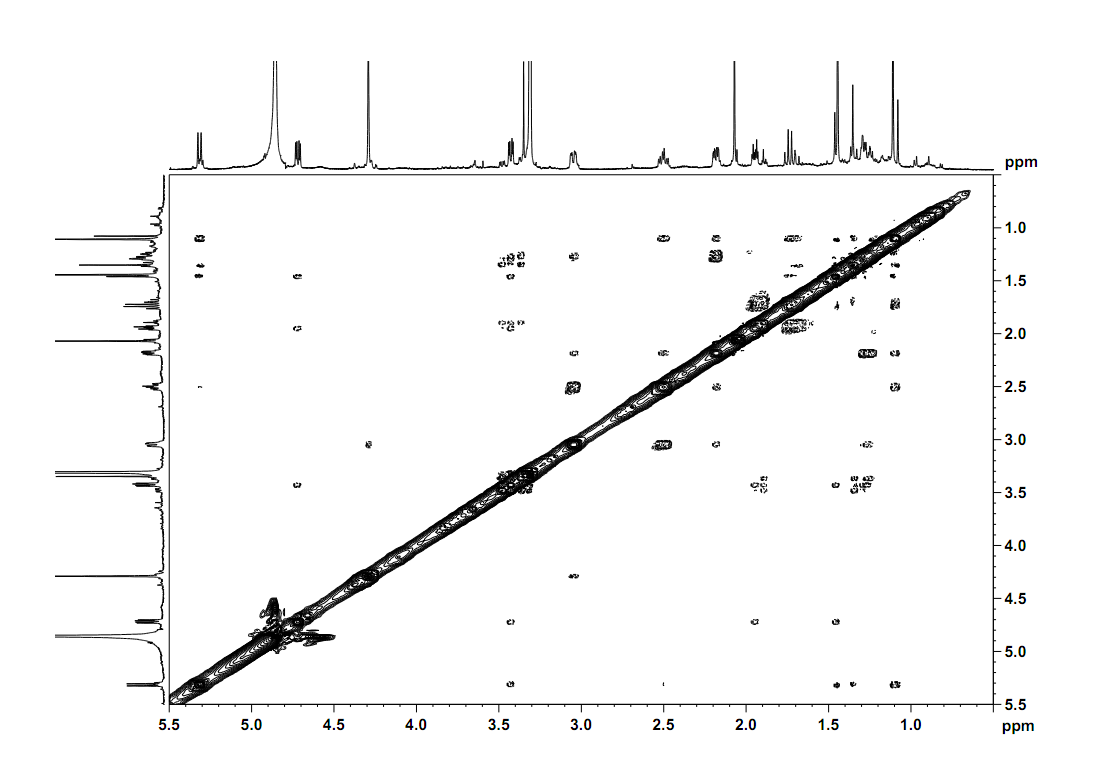
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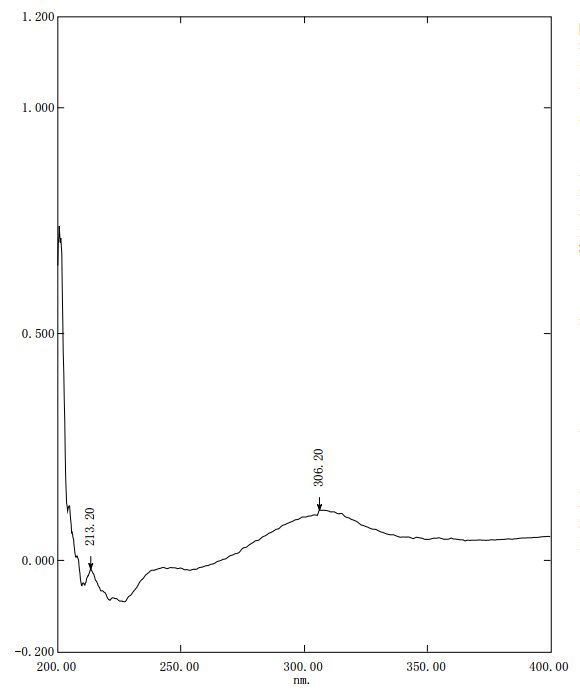
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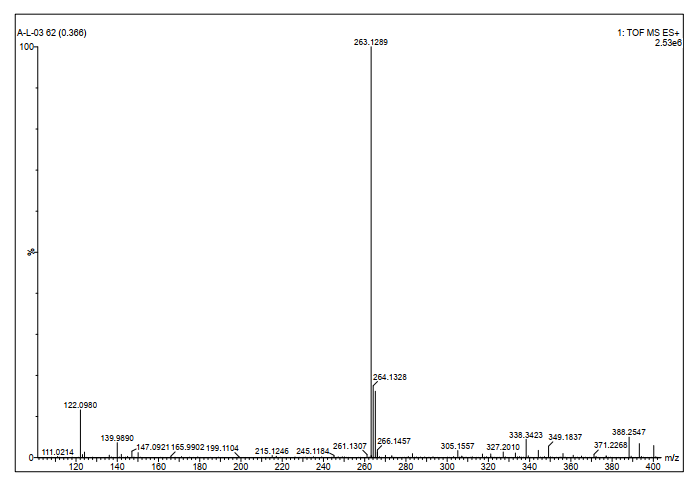
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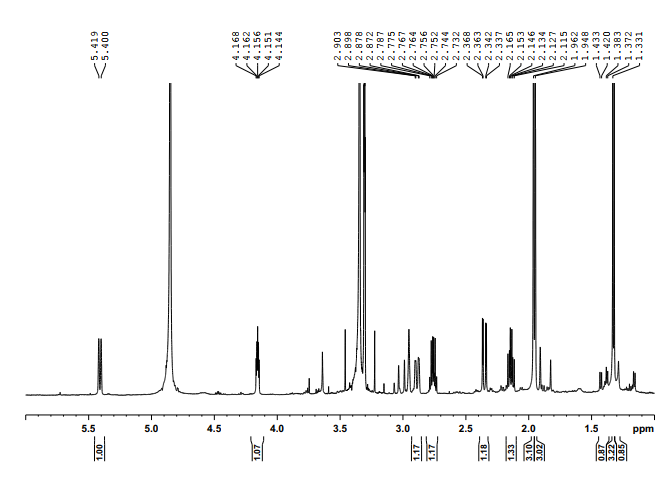
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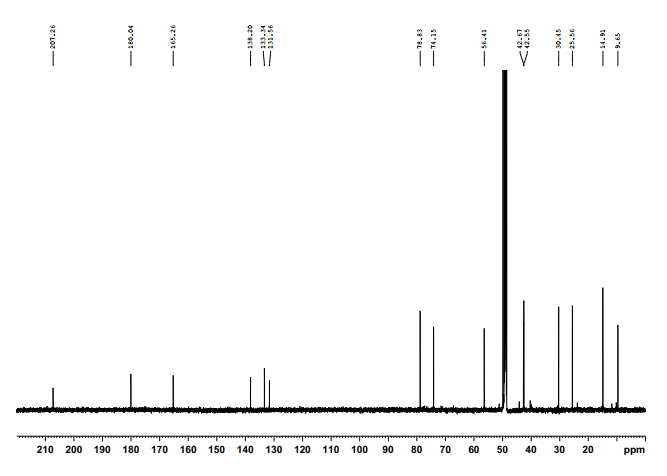
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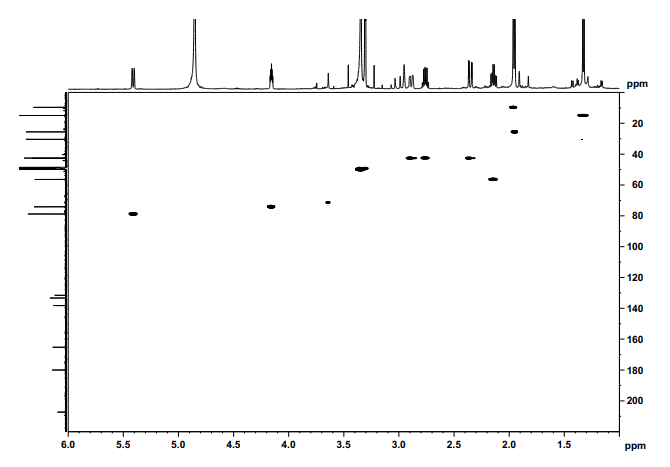
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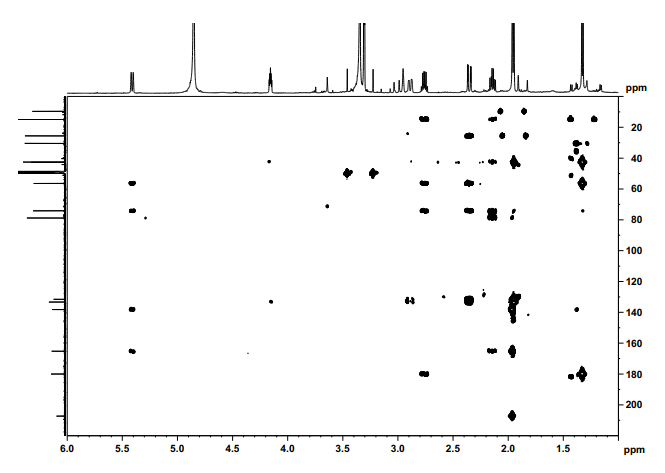
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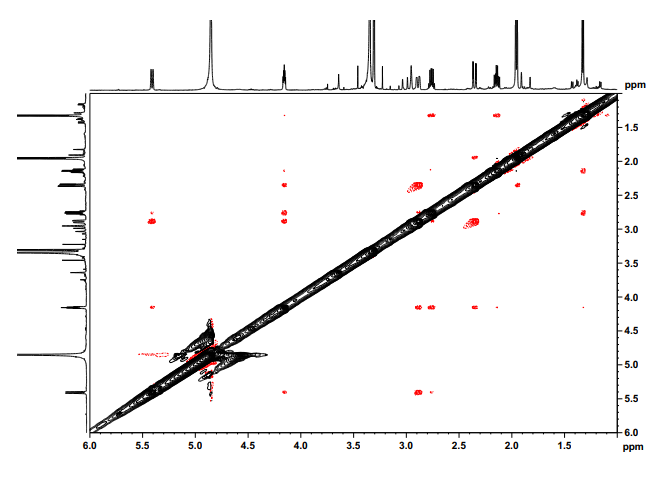
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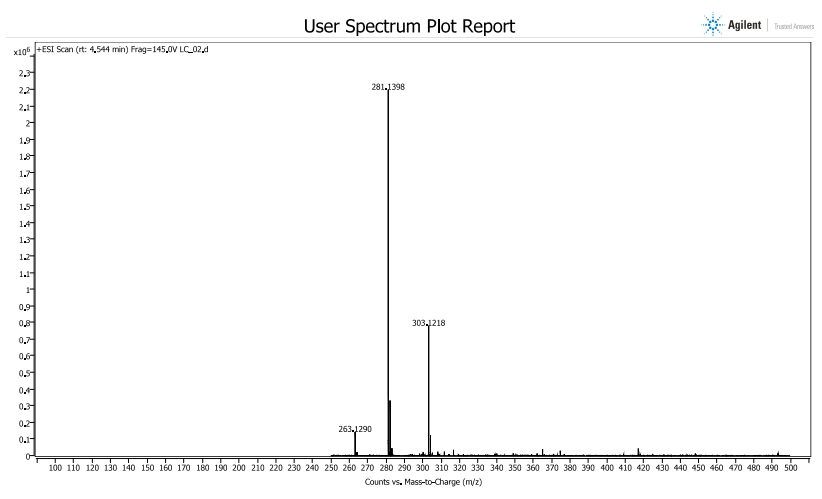
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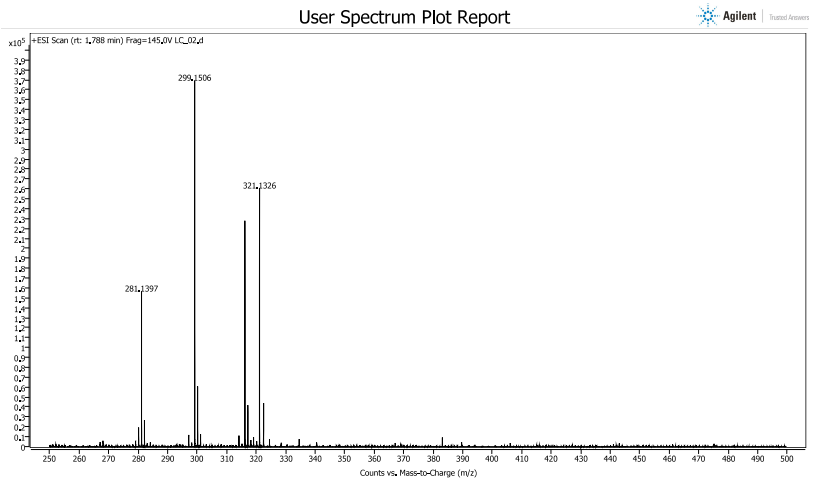
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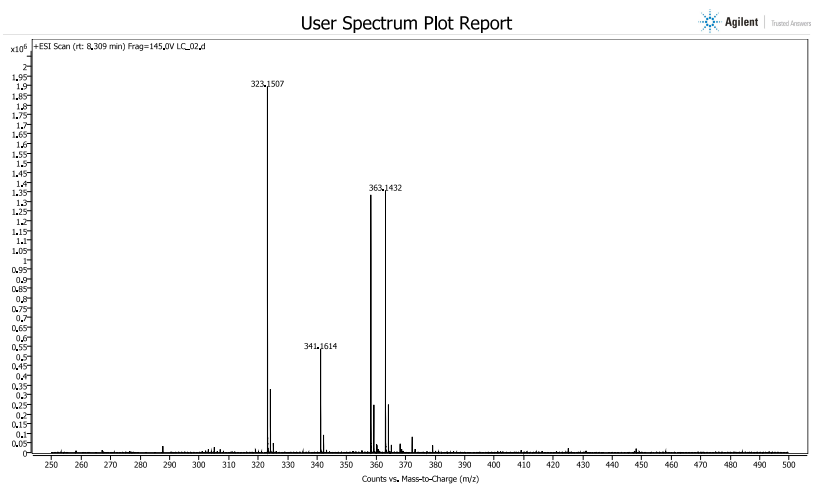
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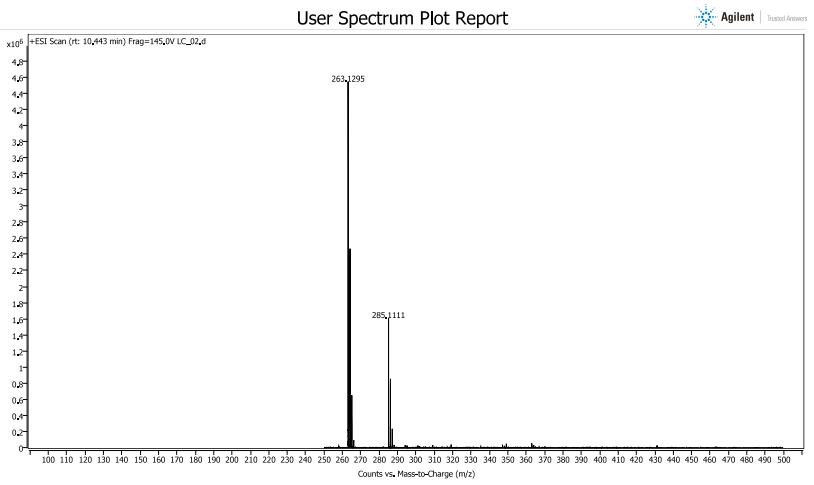
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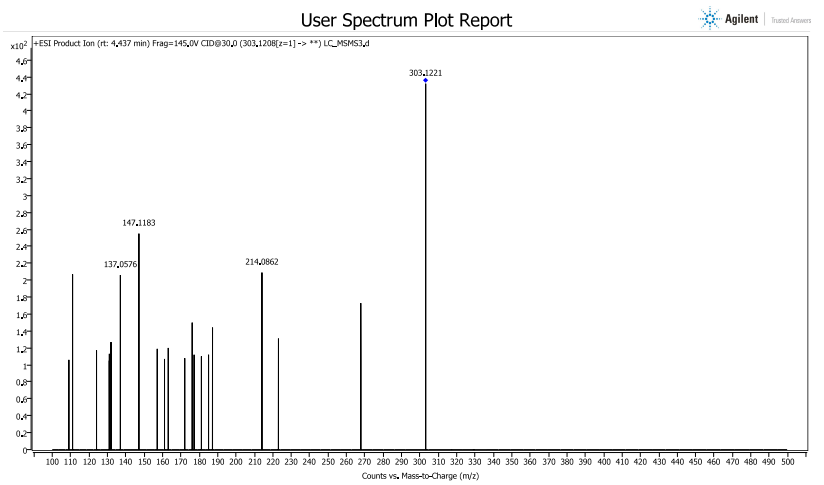
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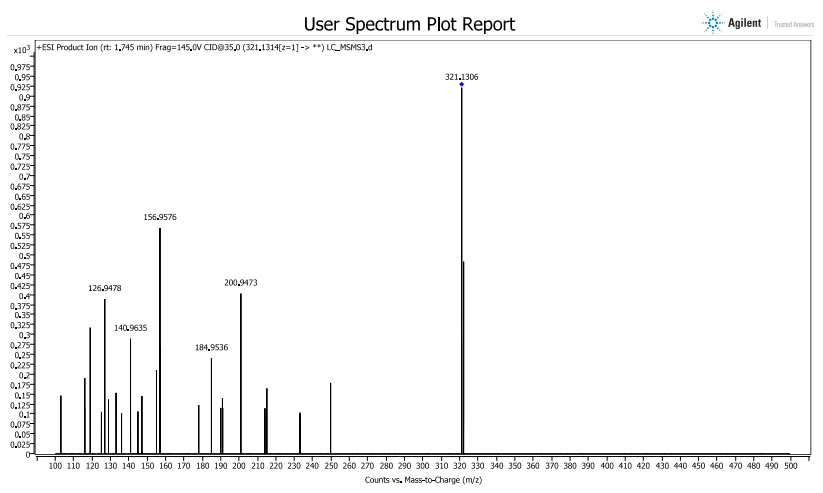
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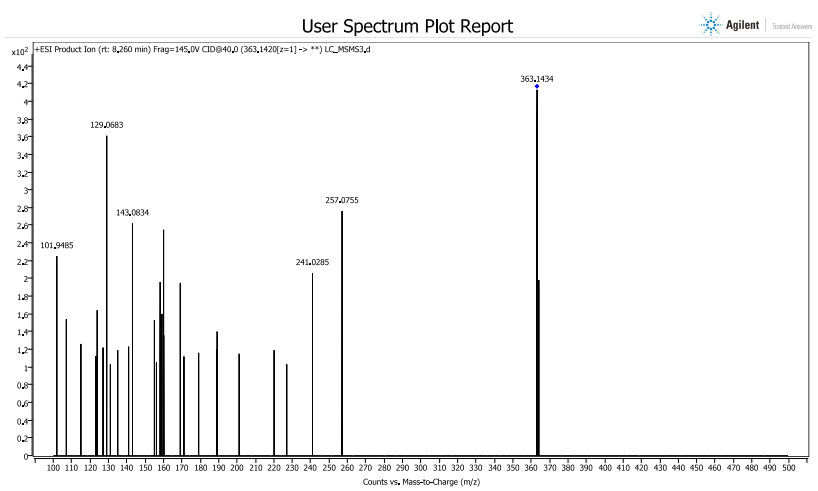
**Figure. S33.**



**Figure. S34.**



**Figure. S35.**



**Figure. S36.**

