

### **Supplementary Information**

#### **Neuroprotective Effects of Cannabispirenone A Against NMDA-Induced Excitotoxicity in Differentiated N2a Cells**

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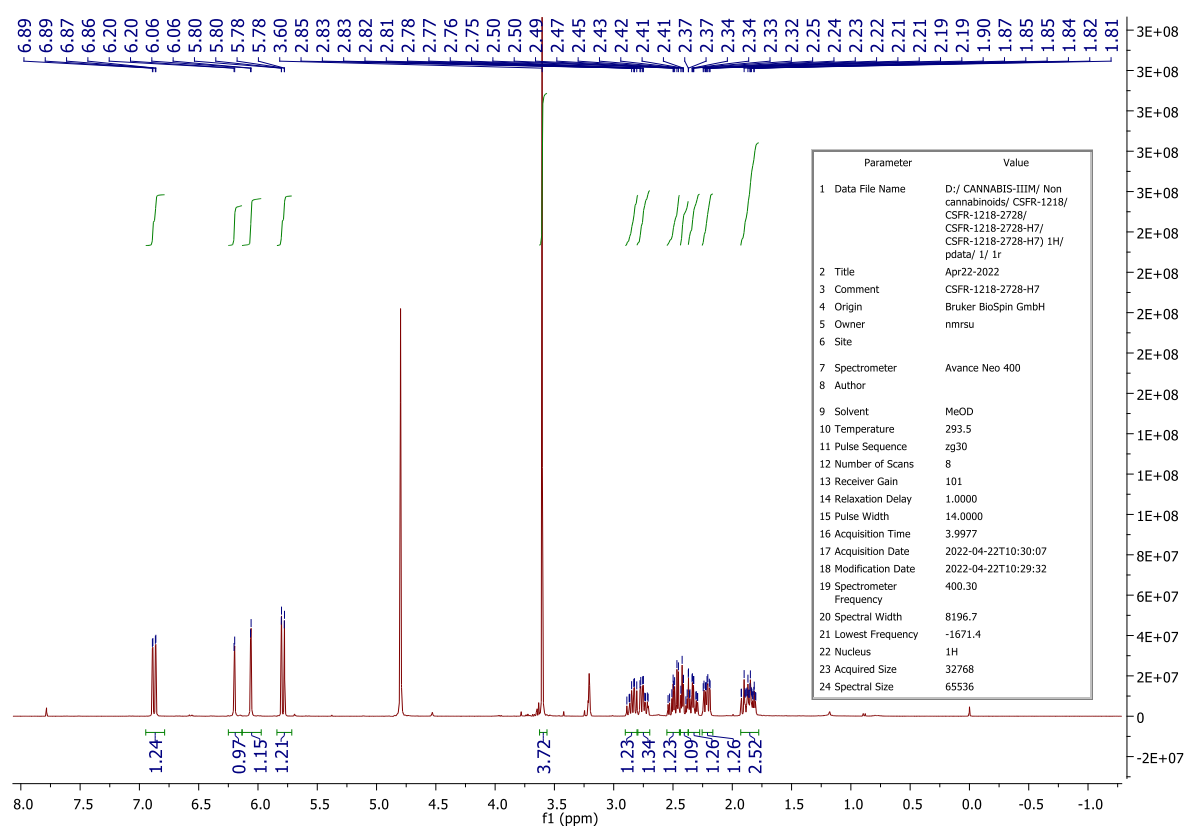
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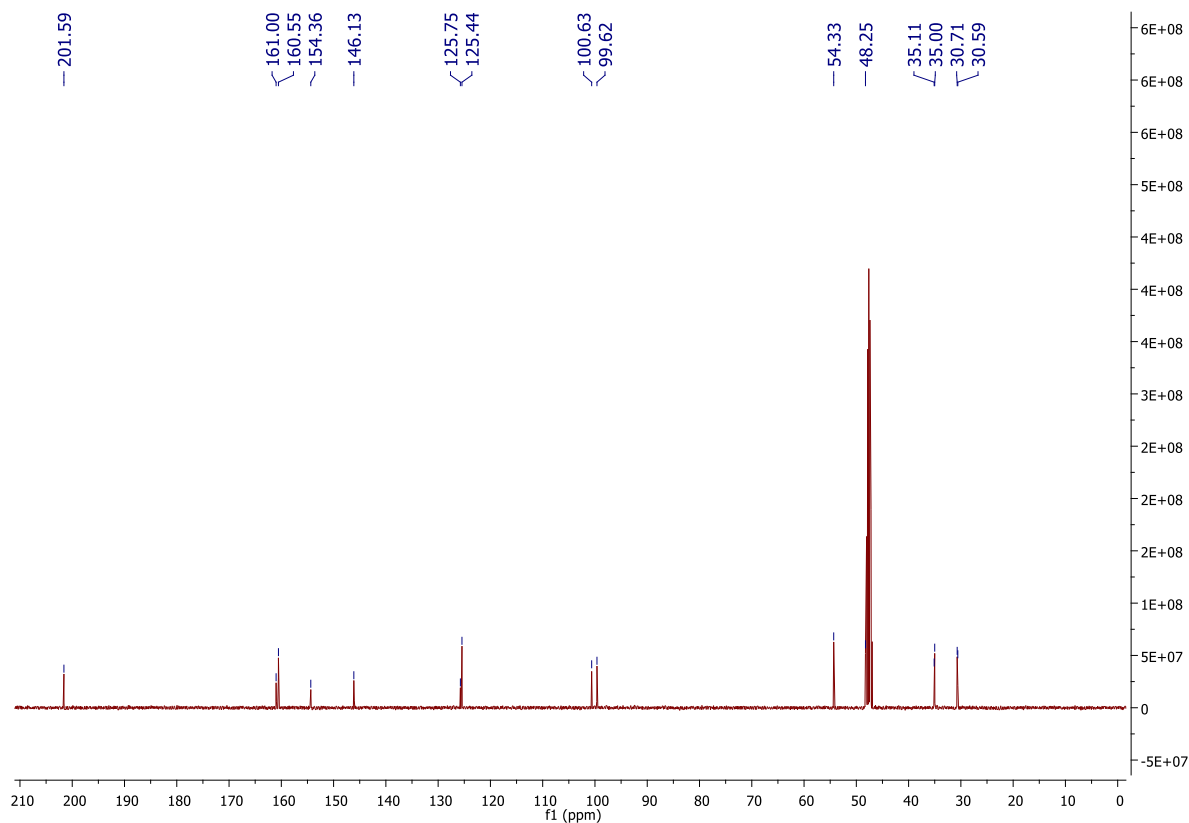
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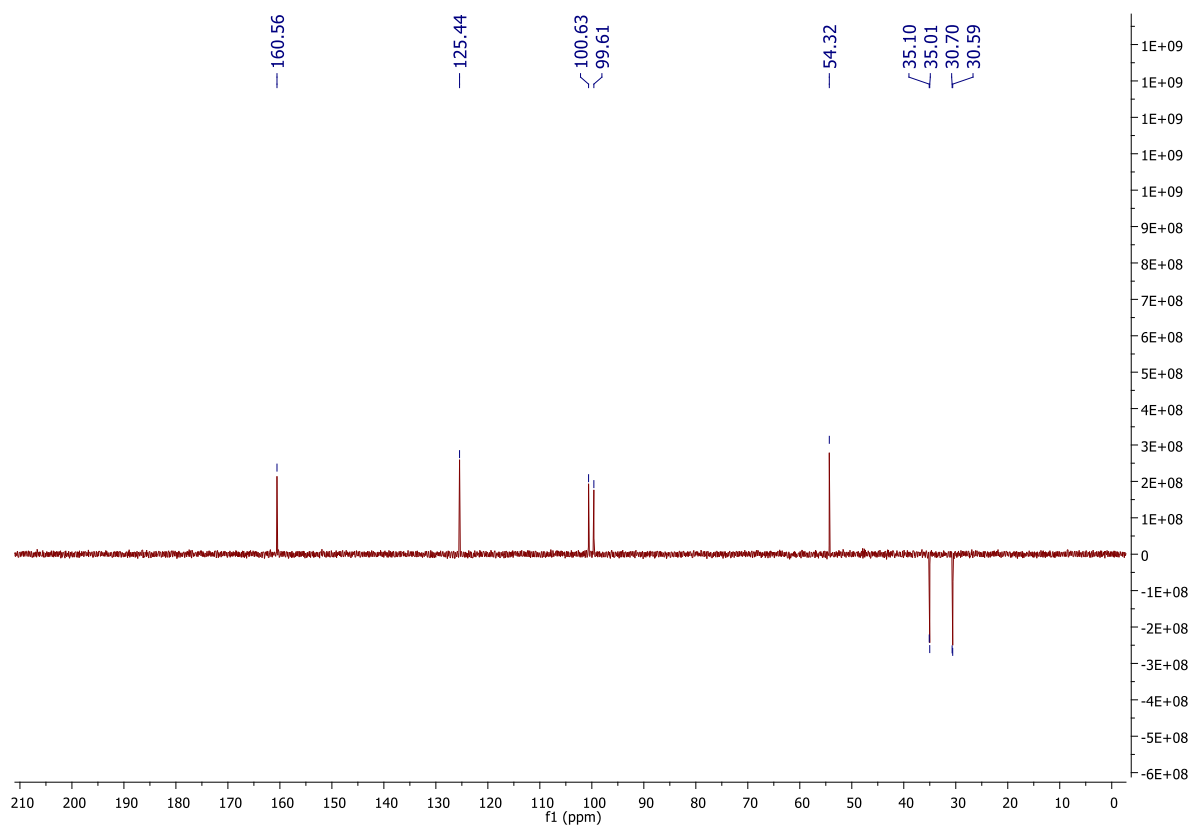
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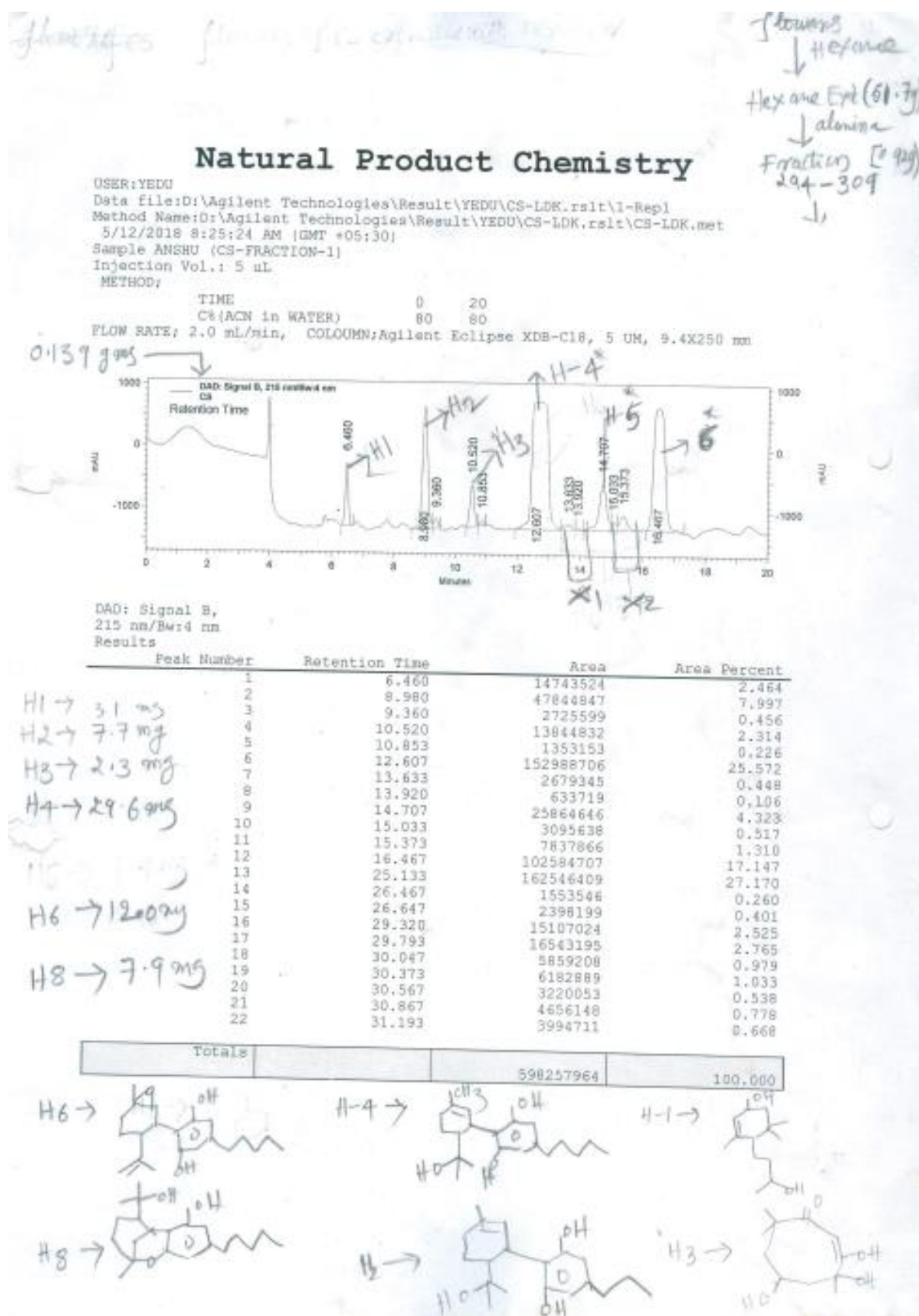
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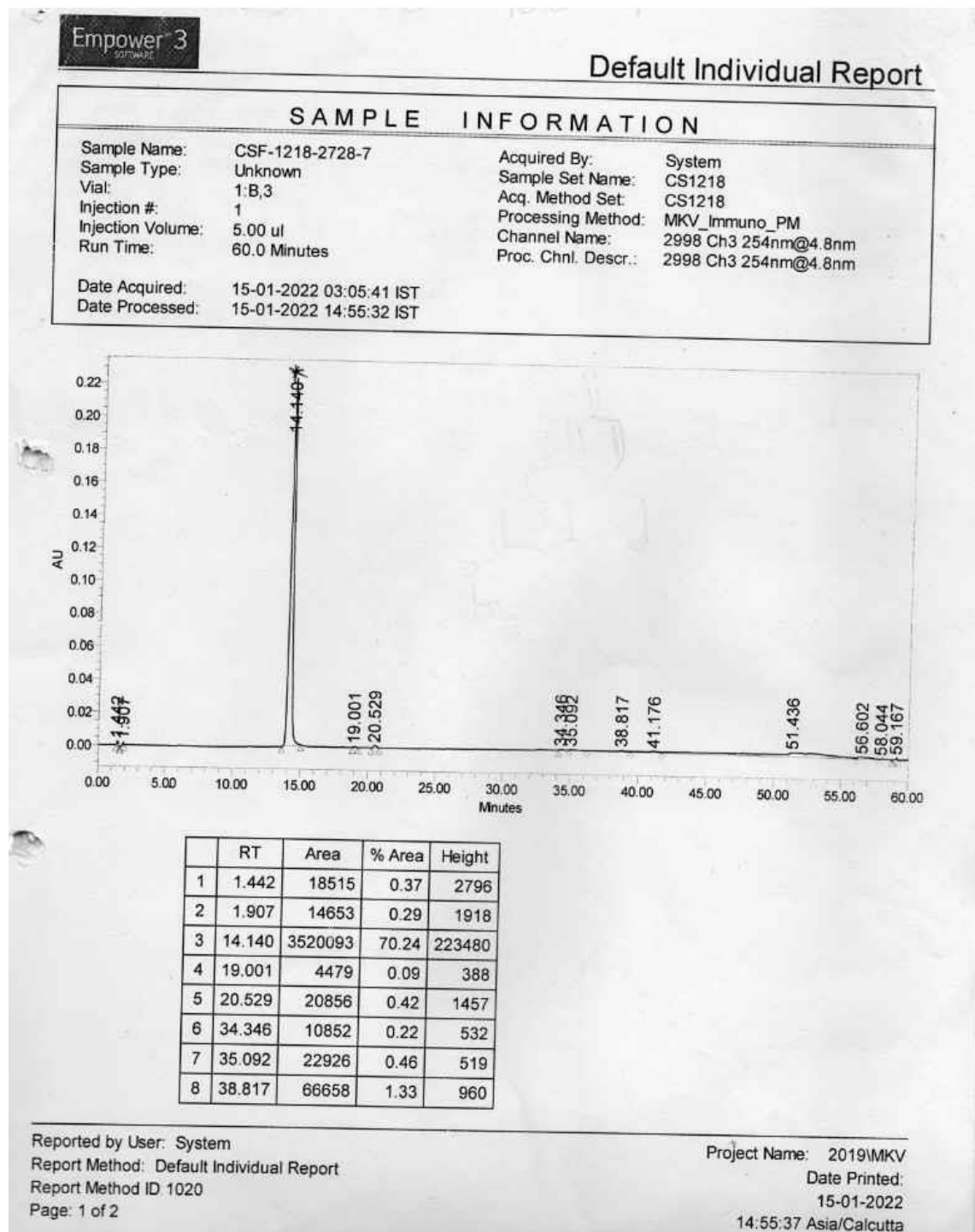
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**Figure S4:** HPLC chromatogram for the separation of compounds **1-6**



**Figure S5:** Standard HPLC chromatogram for cannabispirenone A (9)



**Table S1:** Percentage cell survival of the compounds against NMDA-induced cell death in differentiated Neuro2a cells at 10 $\mu$ M each.

| Compound | % Cell viability |
|----------|------------------|
| 1        | 39.4 $\pm$ 1.8   |
| 2        | 52.1 $\pm$ 2.6   |
| 3        | 62.2 $\pm$ 1.9   |
| 4        | 17.6 $\pm$ 1.5   |
| 5        | 34.8 $\pm$ 2.4   |
| 6        | 32.9 $\pm$ 2.2   |
| 7        | 54.2 $\pm$ 1.6   |
| 8        | 48.7 $\pm$ 1.4   |
| 9        | 84.2 $\pm$ 3.4   |