Supplementary Material:

2-((4-(2-Ethylhexyl)-1,2,3,3a,4,8b-hexahydrocyclopenta[b]indol-7-yl)methylene)malononitrile

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Figure S1. ^{1}H NMR spectrum of 4-(2-ethylhexyl)-1,2,3,3a,4,8b-hexahydrocyclopenta[b]indole-7-carbaldehyde **3**.
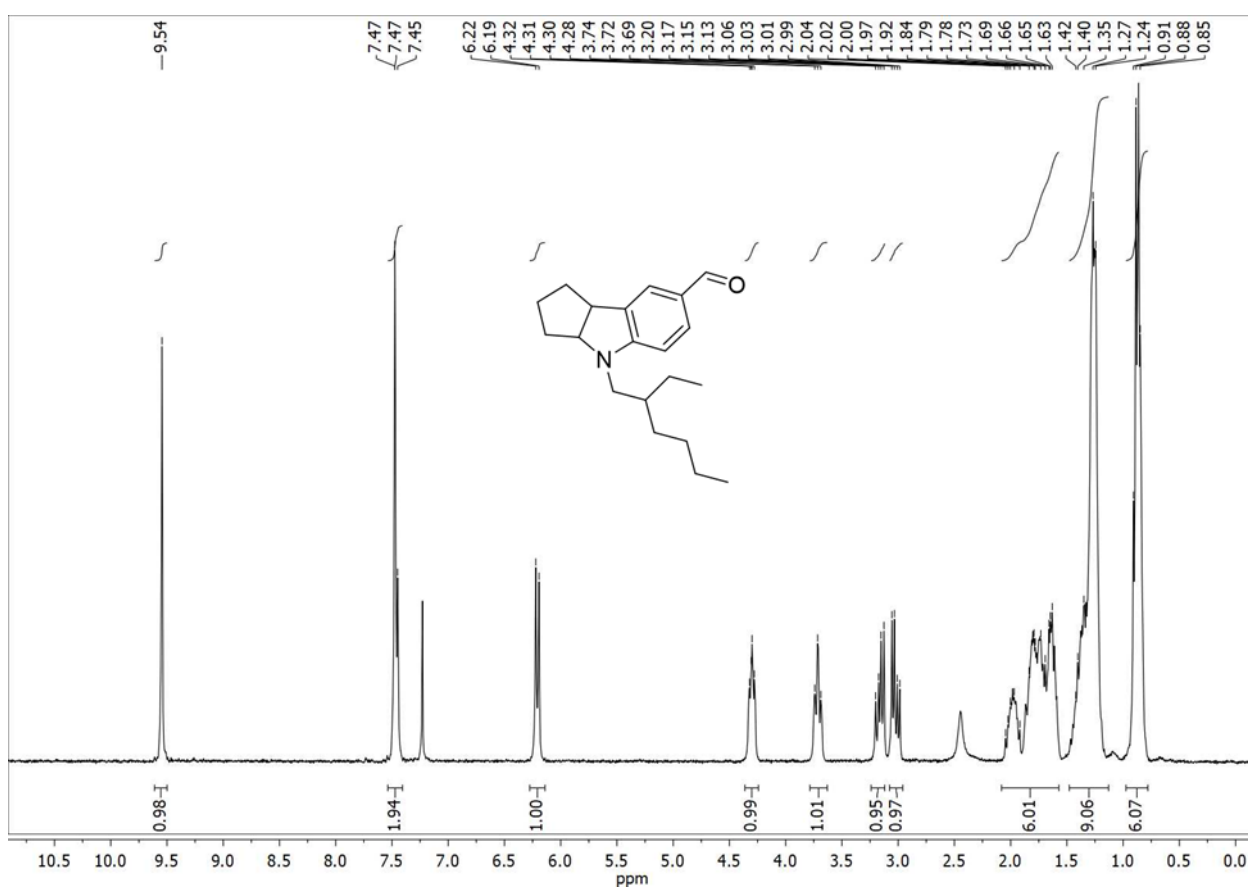
Figure S2. ^{13}C NMR spectrum of 4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indole-7-carbaldehyde **3**.
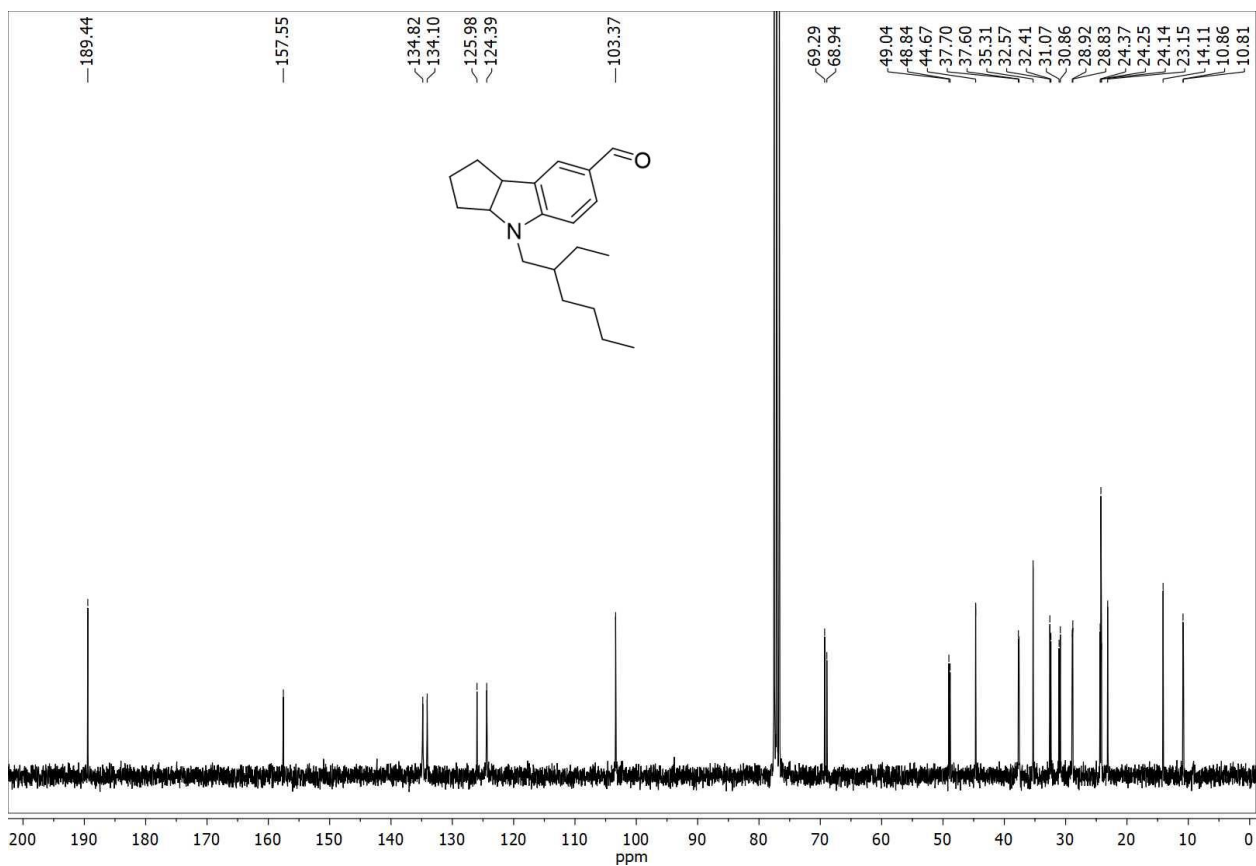

Figure S3. IR spectrum of 4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indole-7-carbaldehyde **3**.
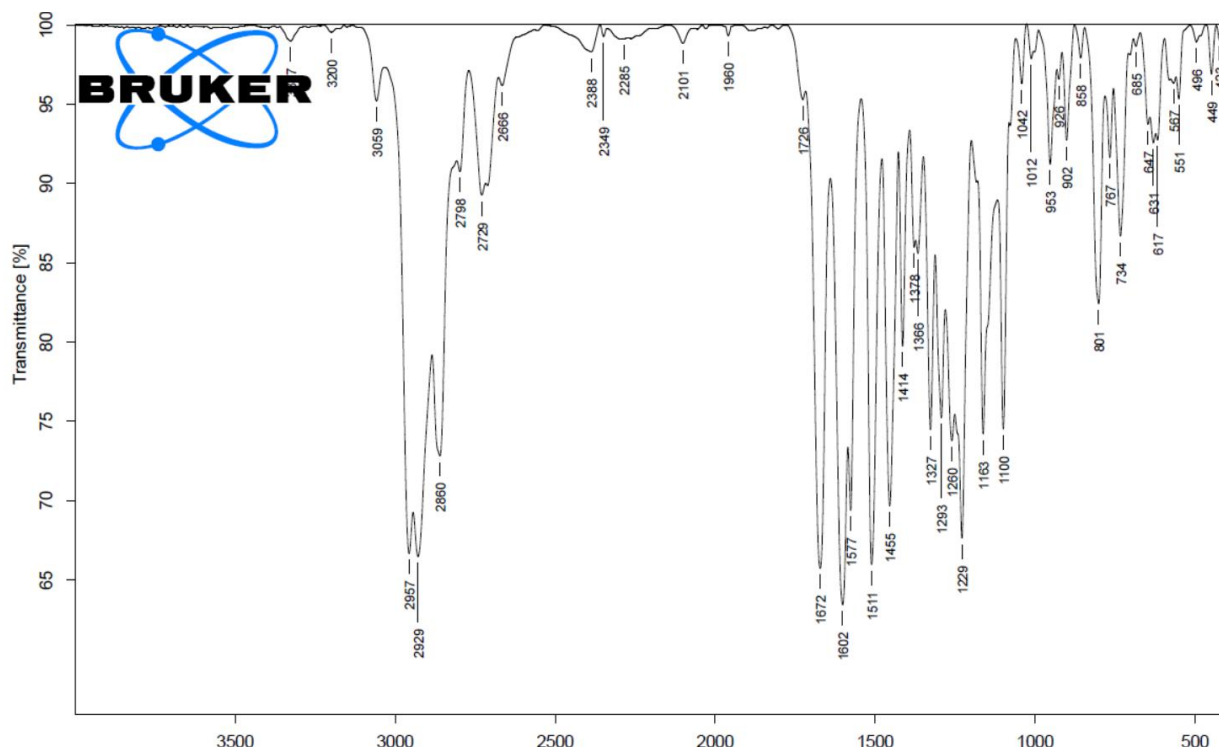
Figure S4. HRMS spectrum of 4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indole-7-carbaldehyde **3**.
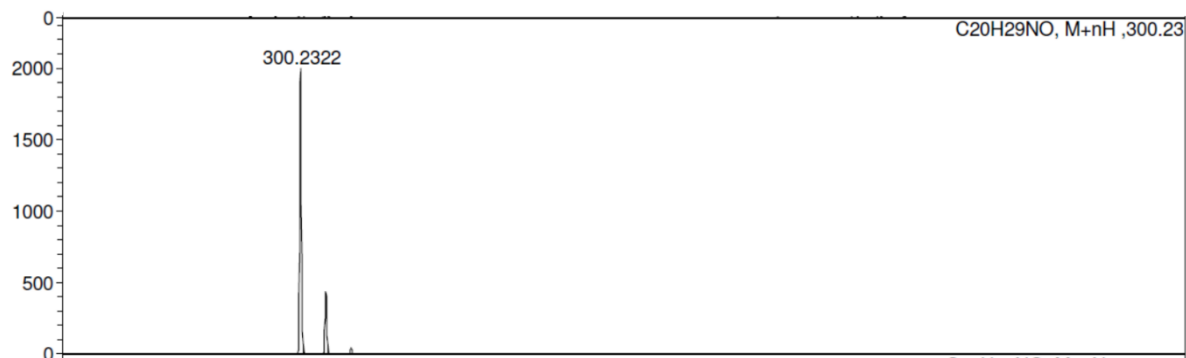

Figure S5. UV spectrum of 4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indole-7-carbaldehyde **3**.
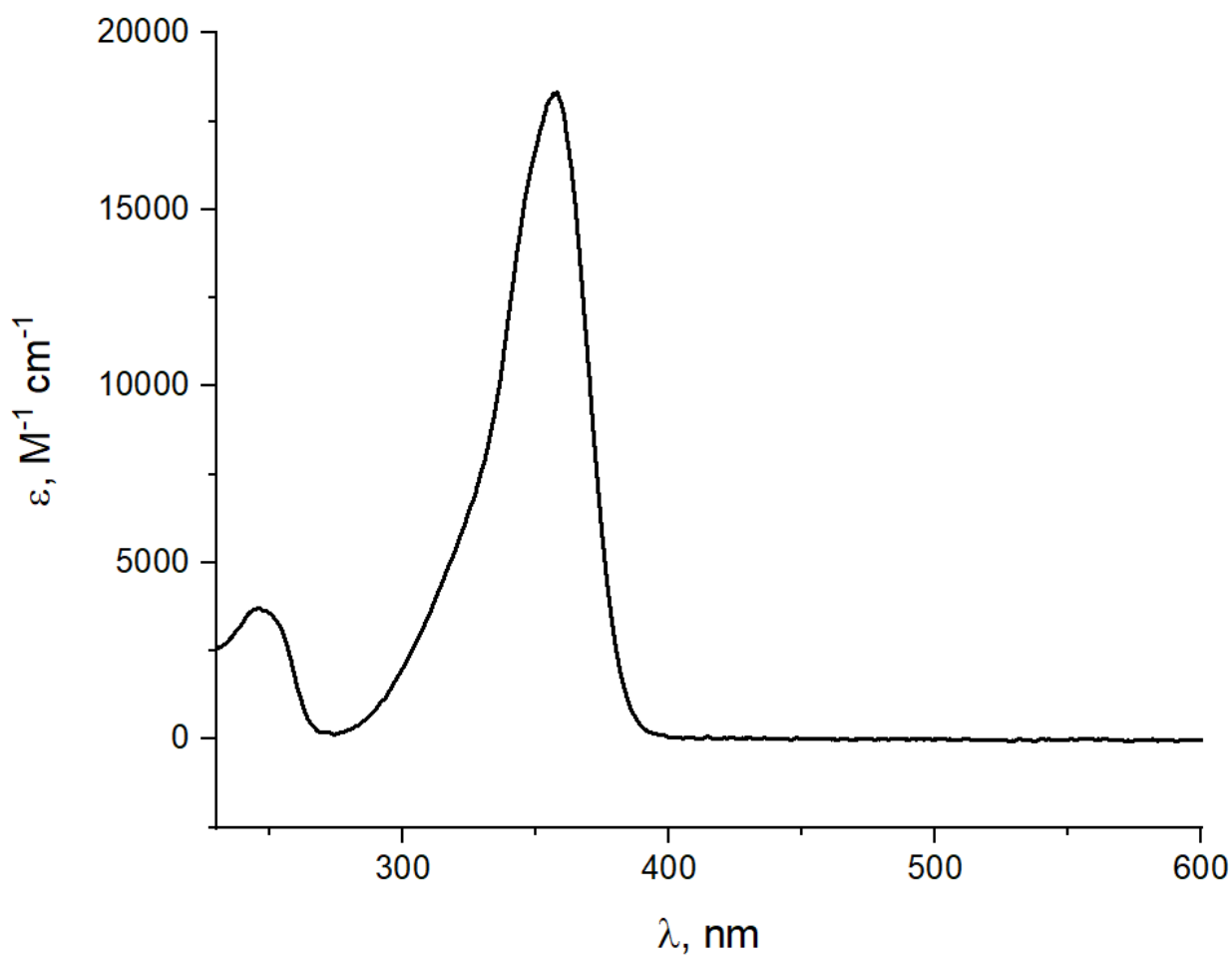
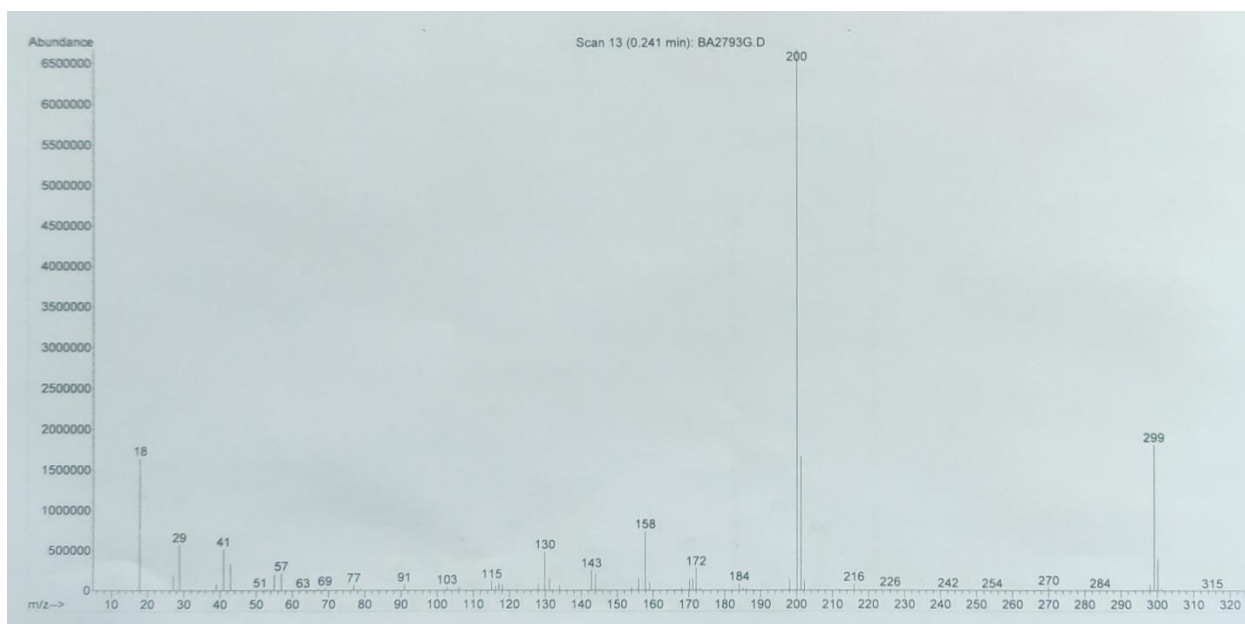**Figure S6**. Mass-spectrum of 4-(2-ethylhexyl)-1,2,3,3a,4,8b-hexahydrocyclopenta[b]indole-7-carbaldehyde **3**.

Figure S7. ^{1}H NMR spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3a,4,8b-hexahydrocyclopenta[b]indol-7-yl)methylene)malononitrile **1**.
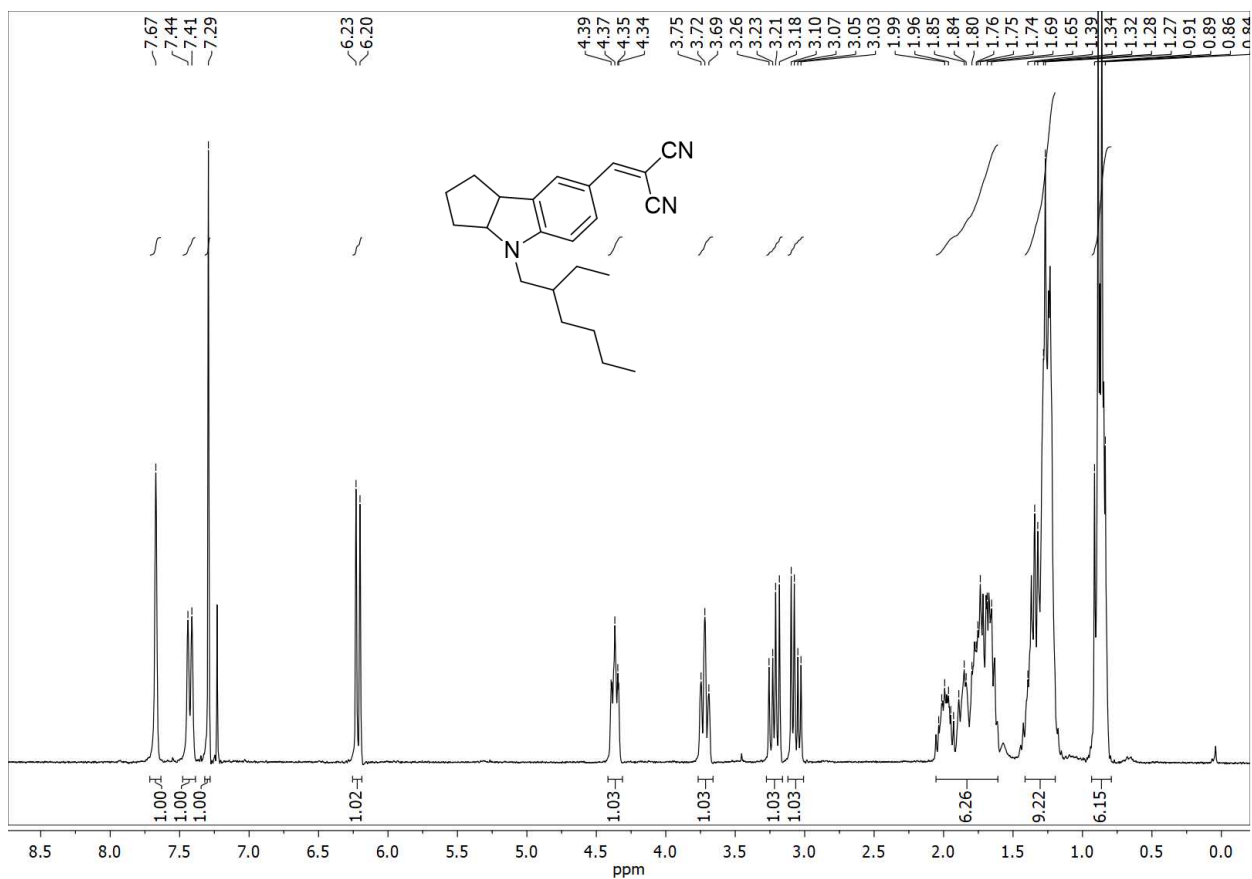
Figure S8. ^{13}C NMR spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.
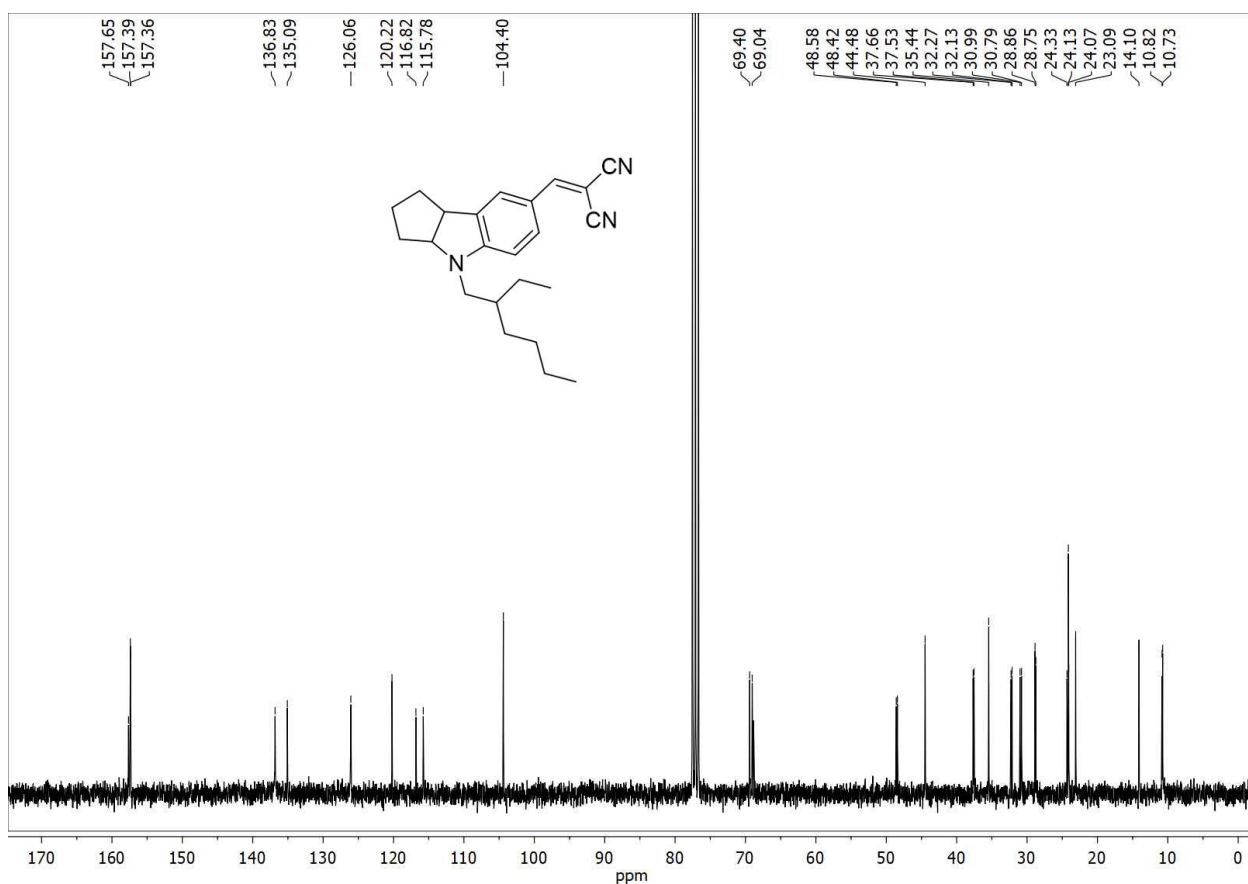

Figure S9. IR spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.
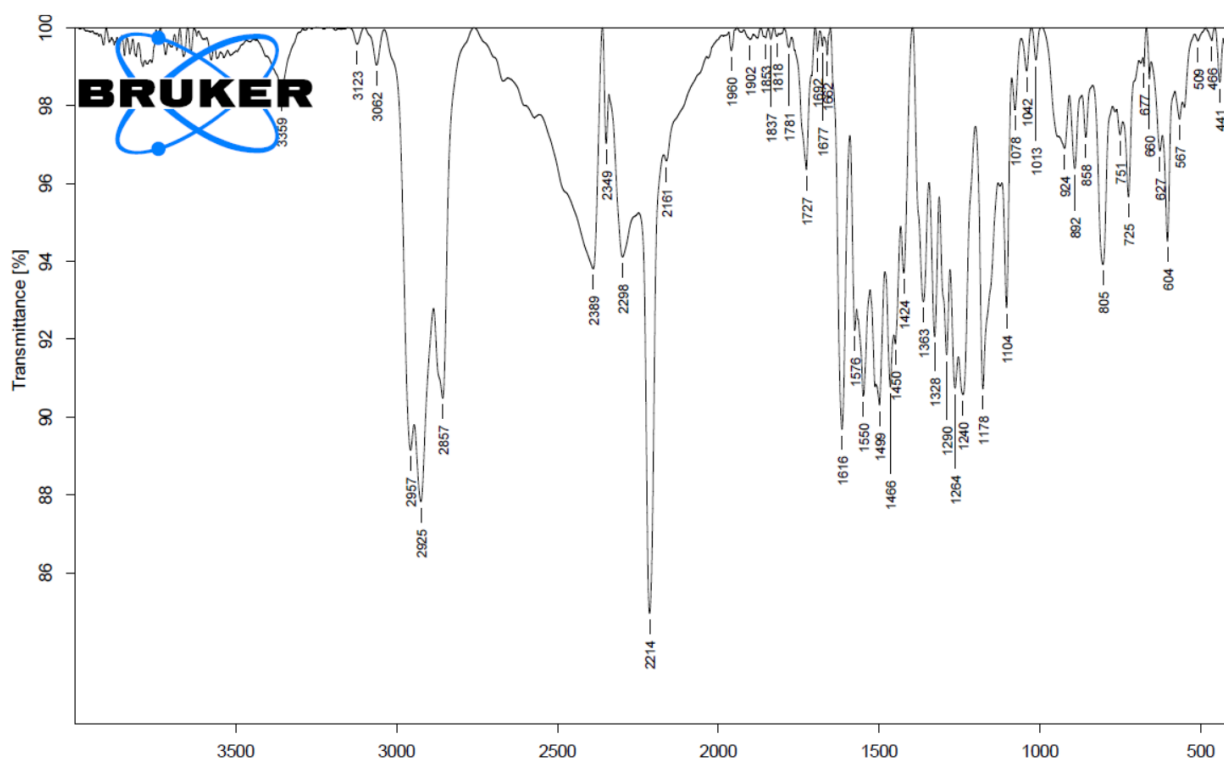
Figure S10. HRMS spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.
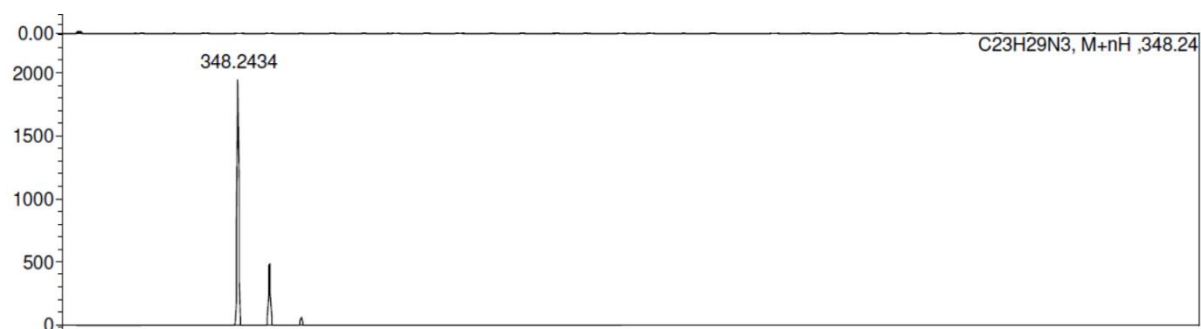

Figure S11. UV spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.
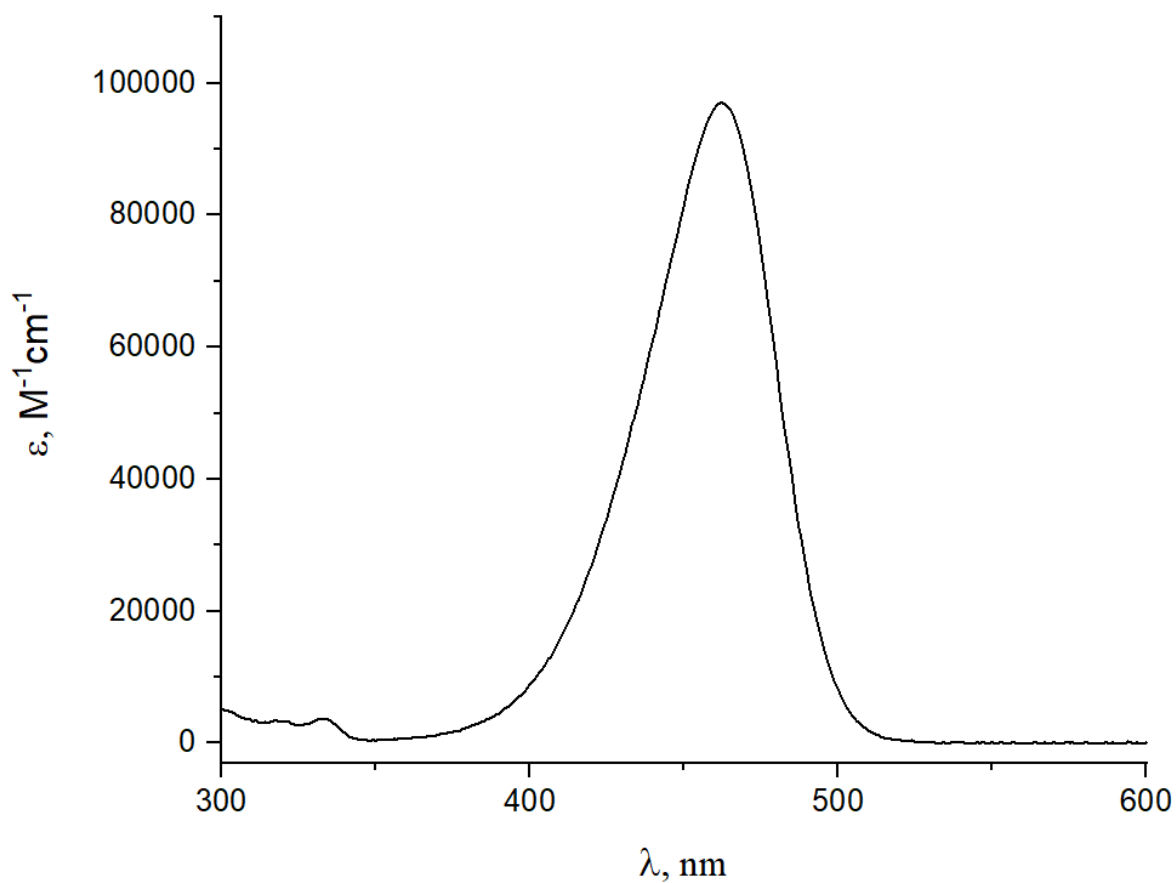
Figure S12. Emission spectrum 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.
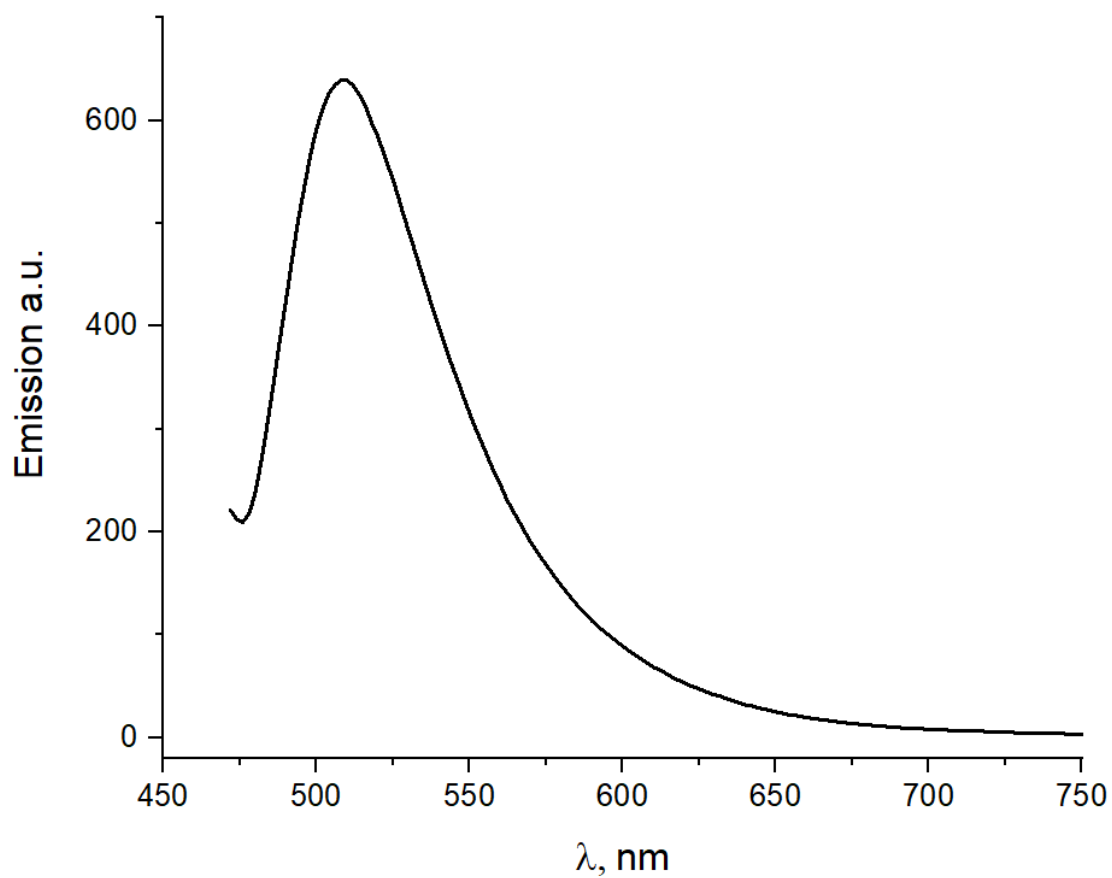

Figure S13. Mass-spectrum of 2-((4-(2-ethylhexyl)-1,2,3,3*a*,4,8*b*-hexahydrocyclopenta[*b*]indol-7-yl)methylene)malononitrile **1**.