

Barton Decarboxylation Under Ultrasonic Continuous Flow

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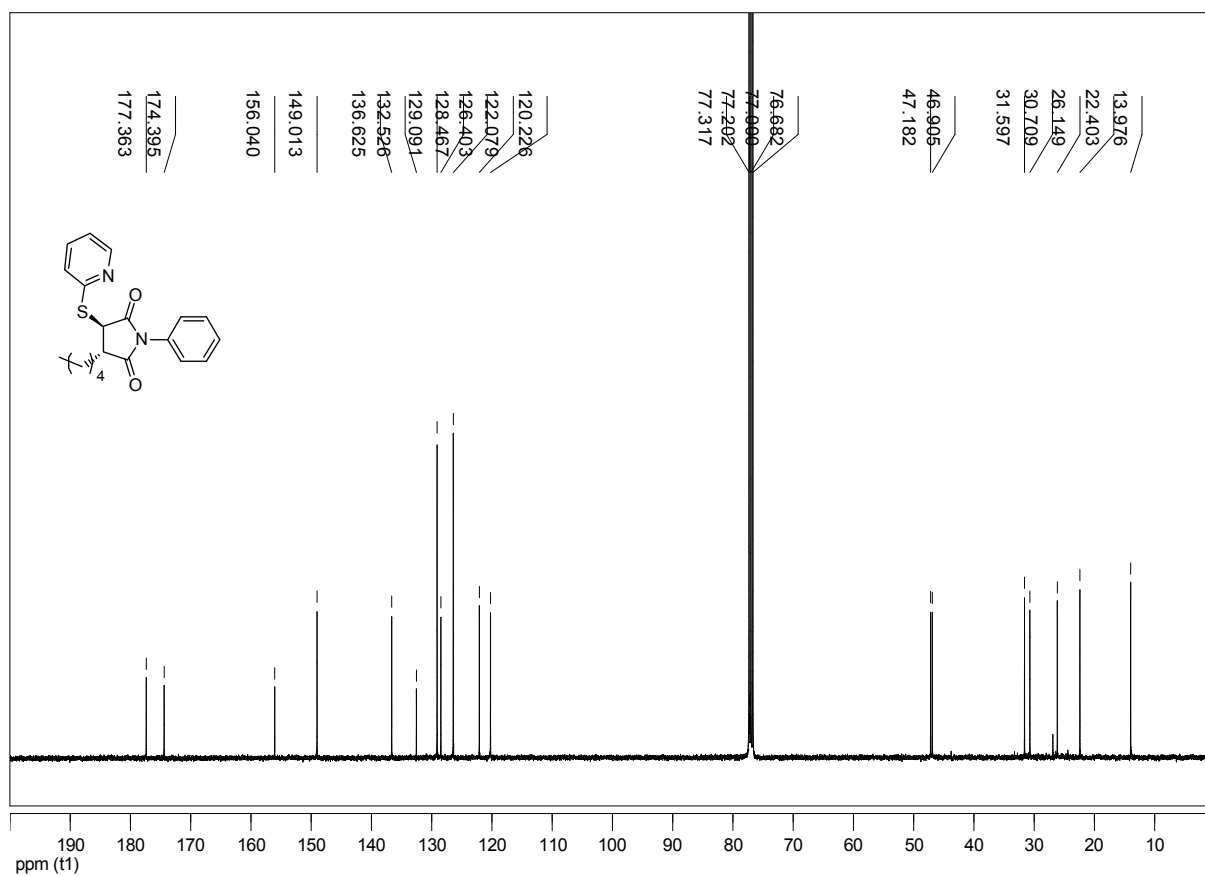
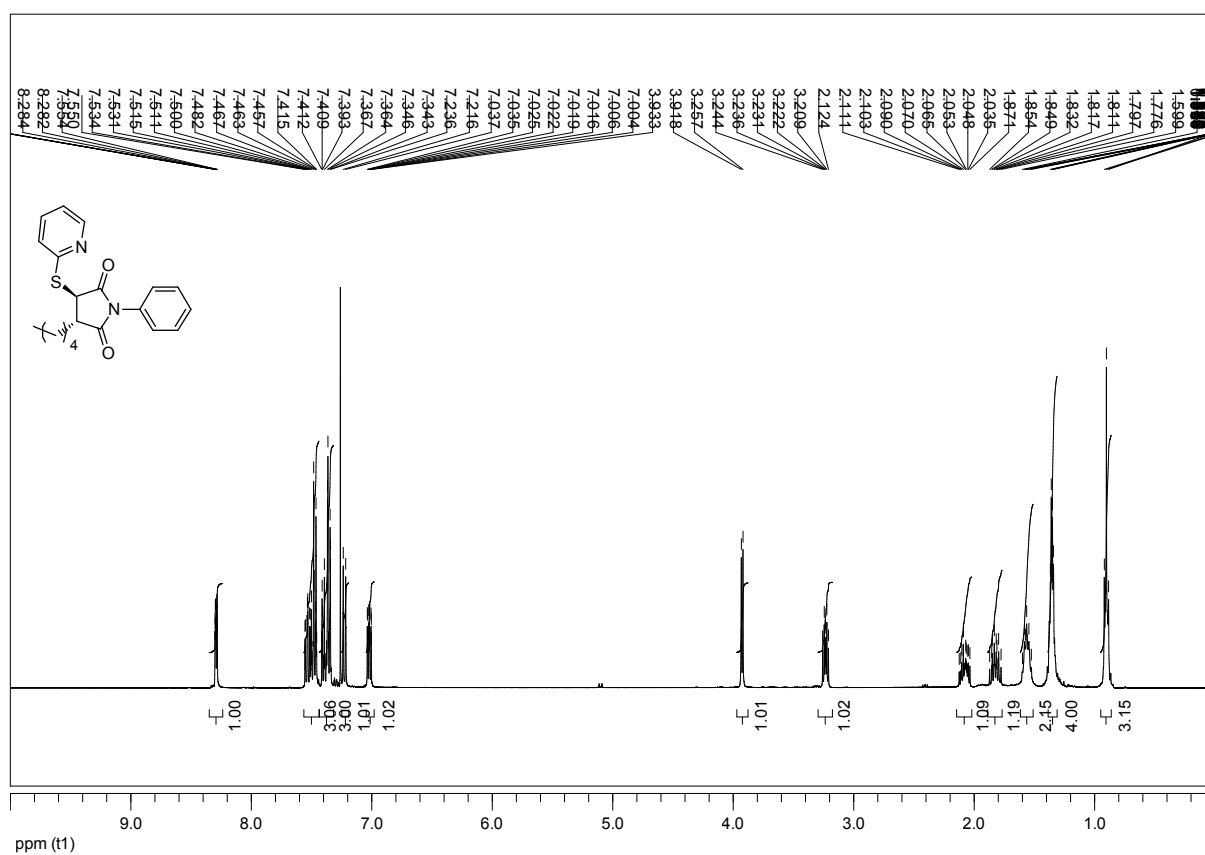
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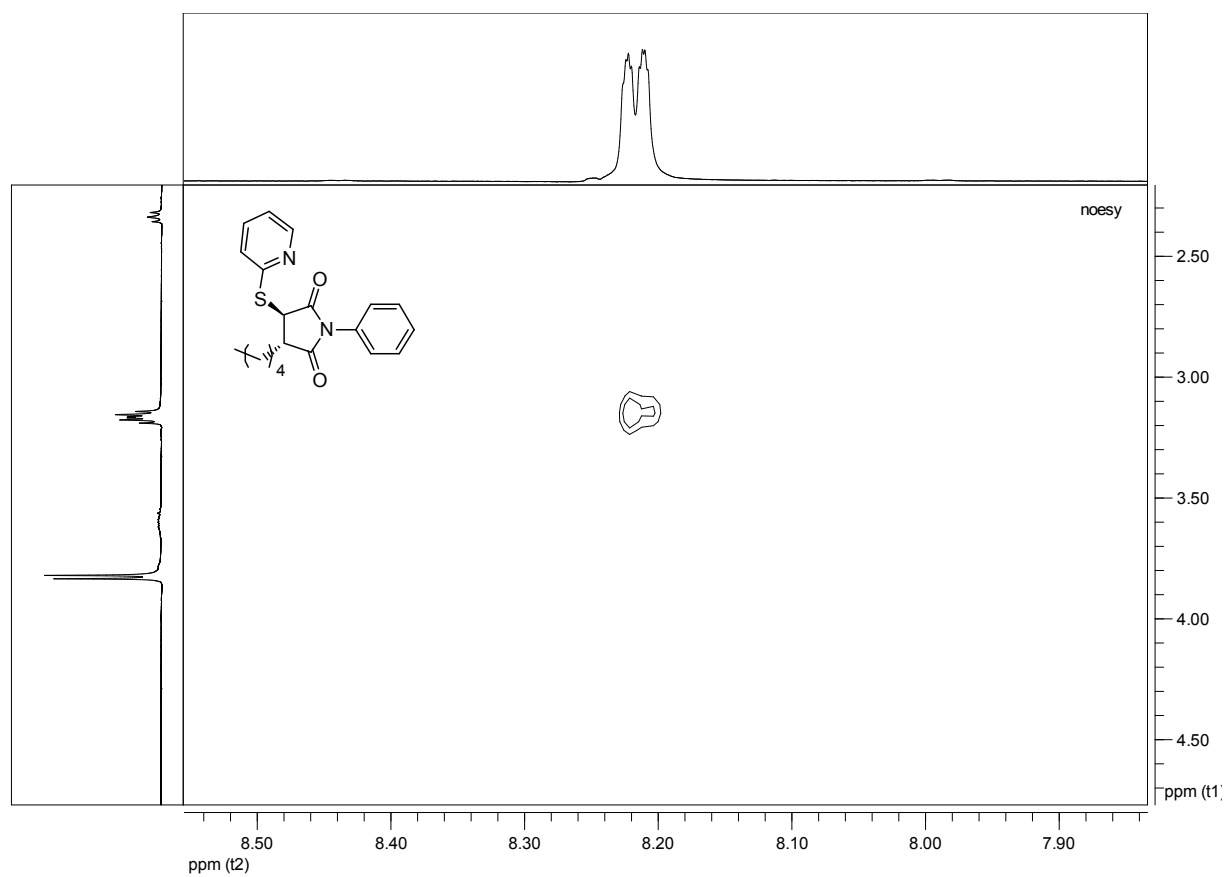
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SUPPORTING INFORMATION CONTENT

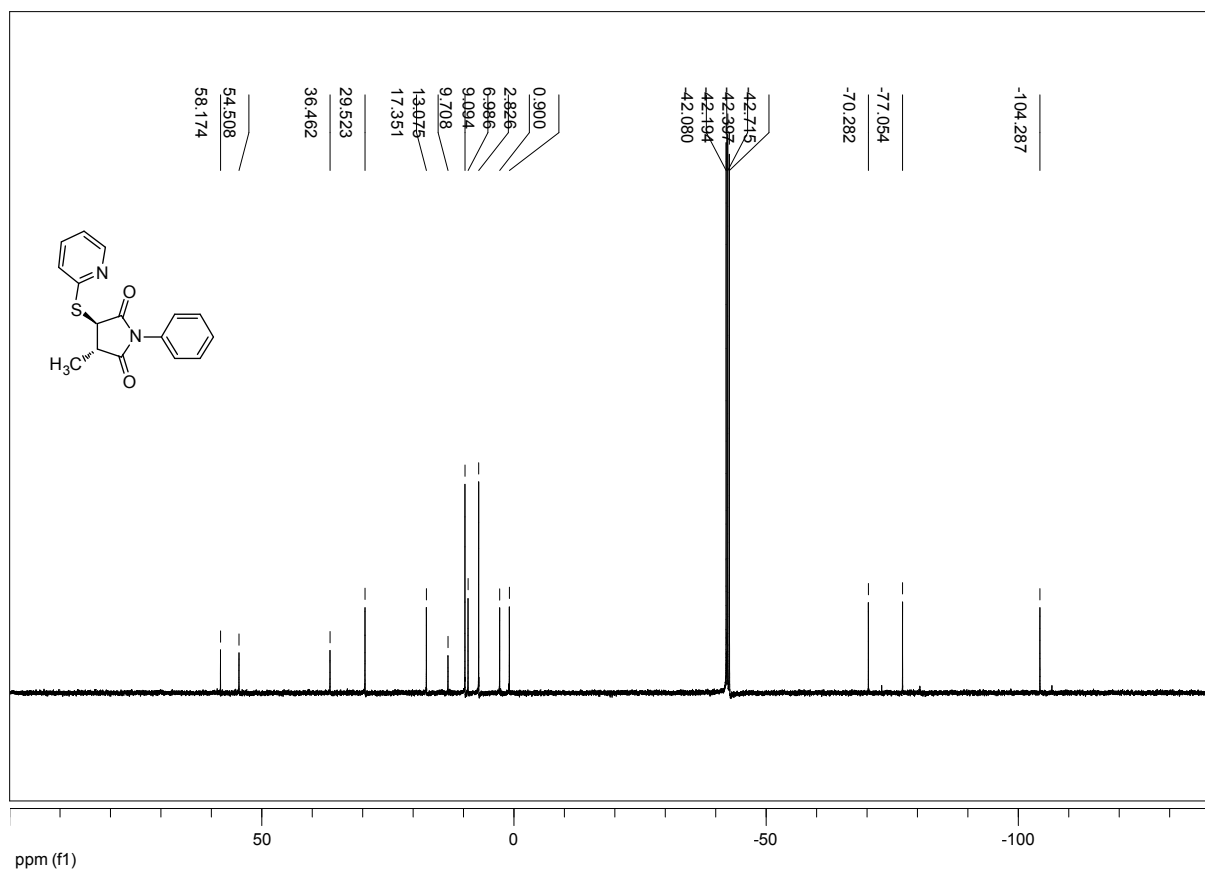
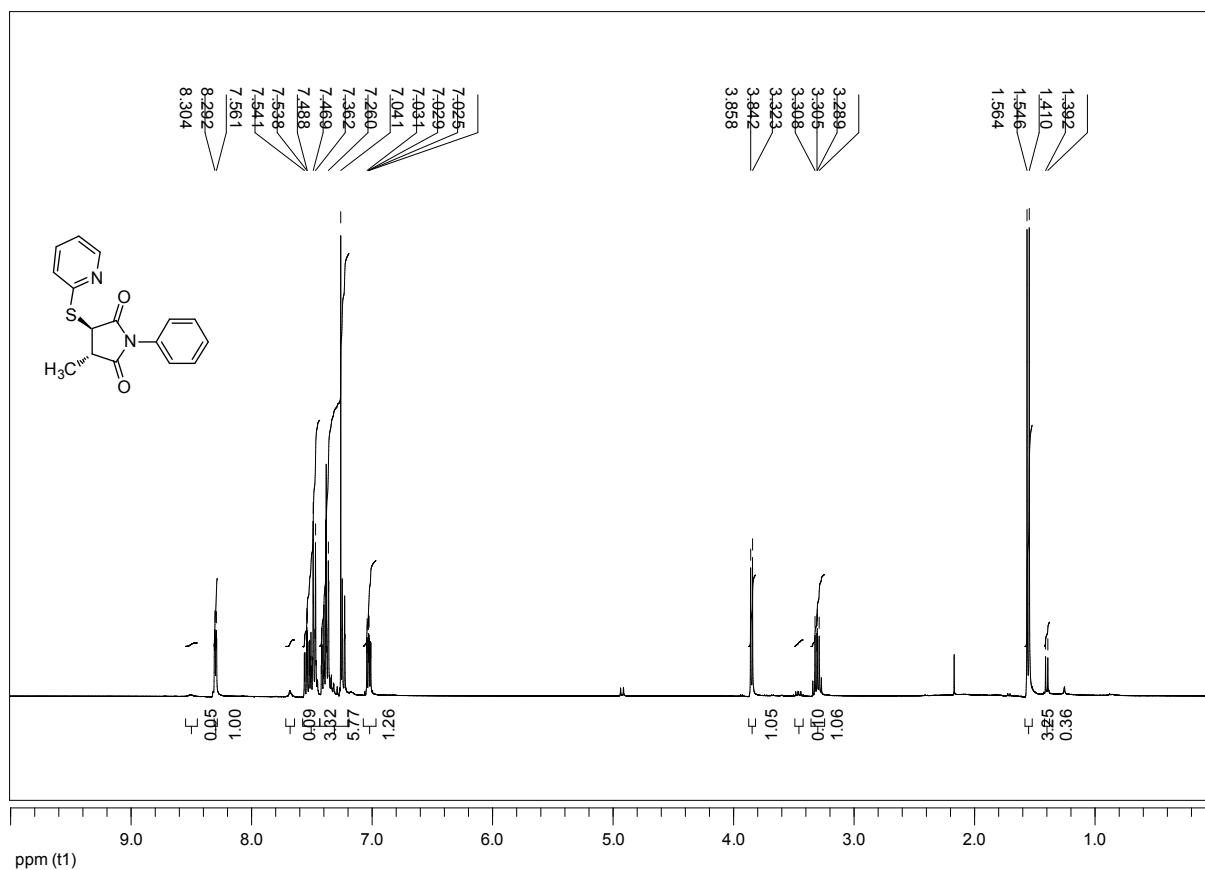
2	¹ H and ¹³ C NMR Spectra of (±1)
3	noesy spectrum of (±1)
4 to 12	¹ H and ¹³ C NMR Spectra of (±2) to (10)

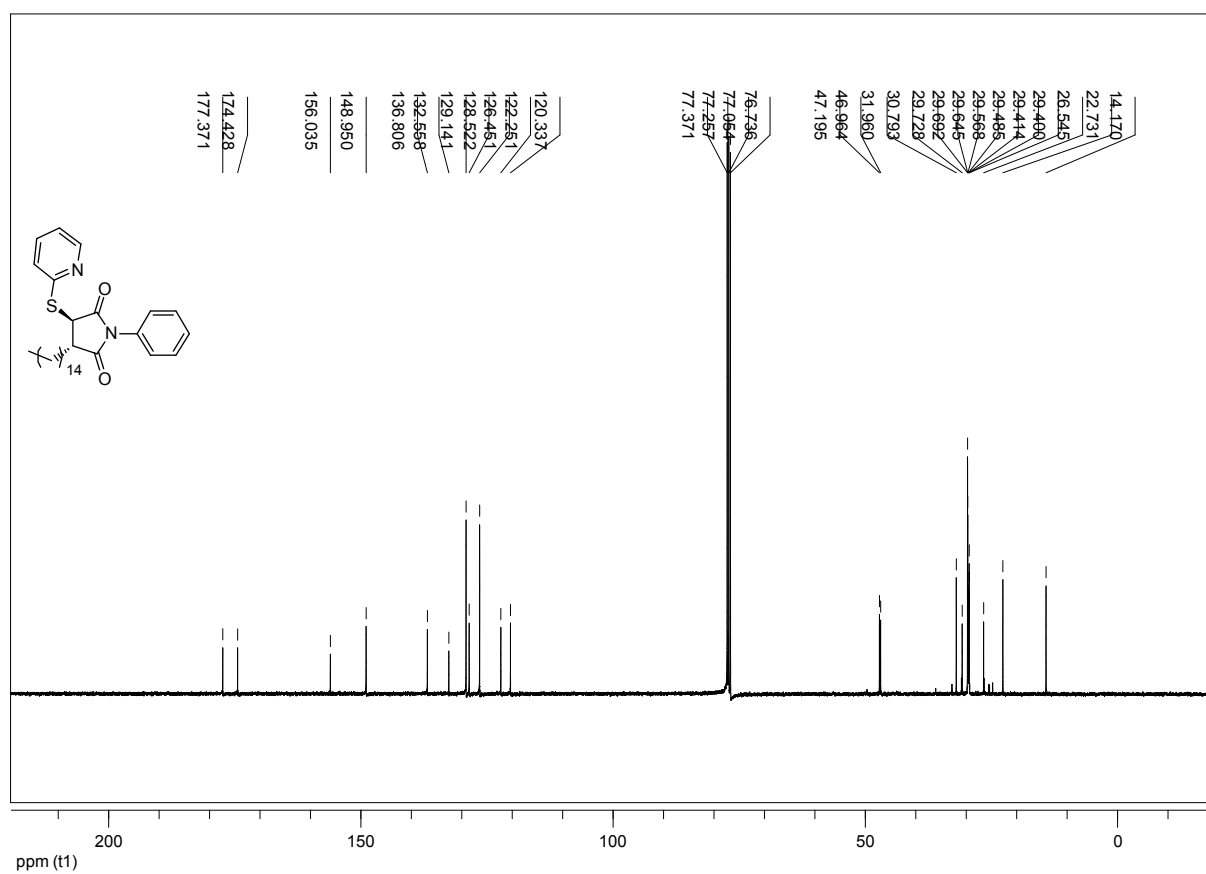
3-Pentyl-1-phenyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (±1)



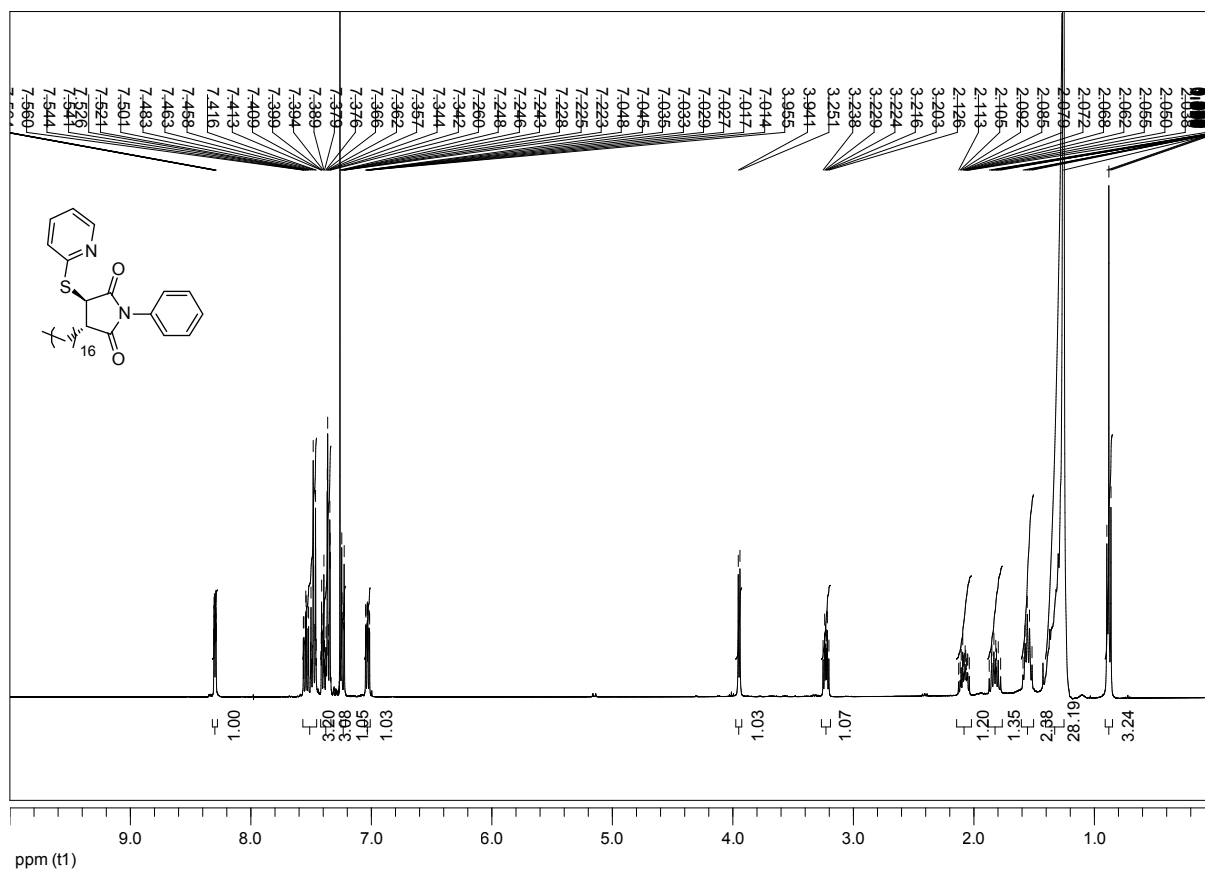


3-Methyl-1-phenyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (± 2)

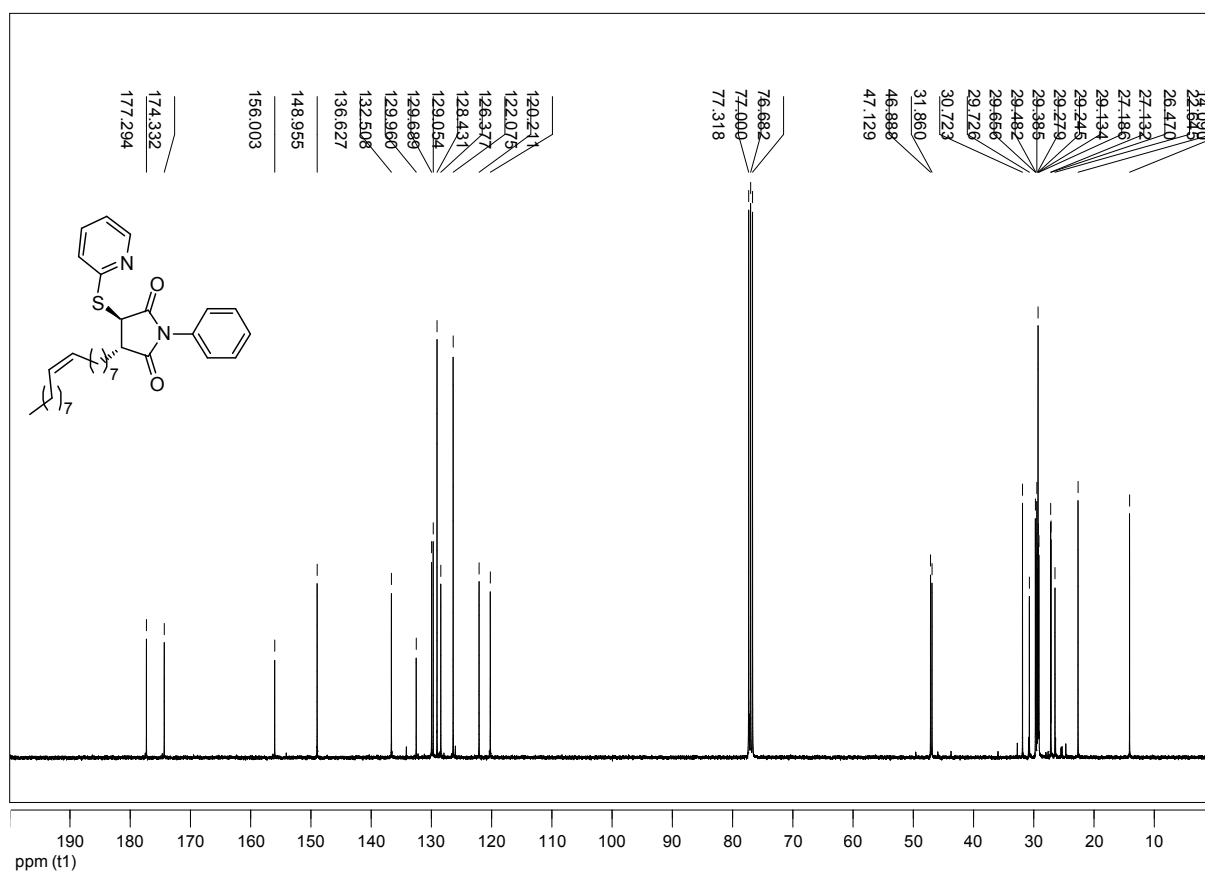
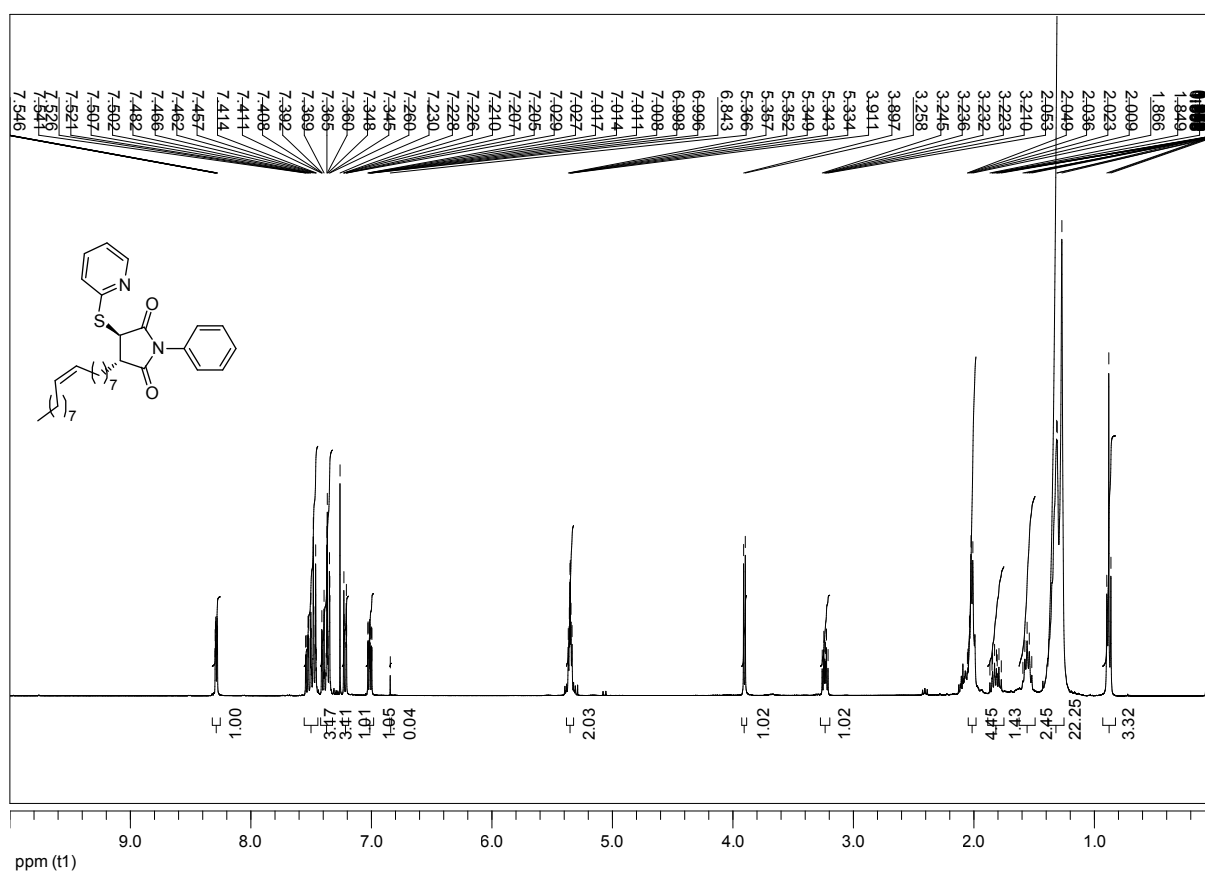


[illegible]

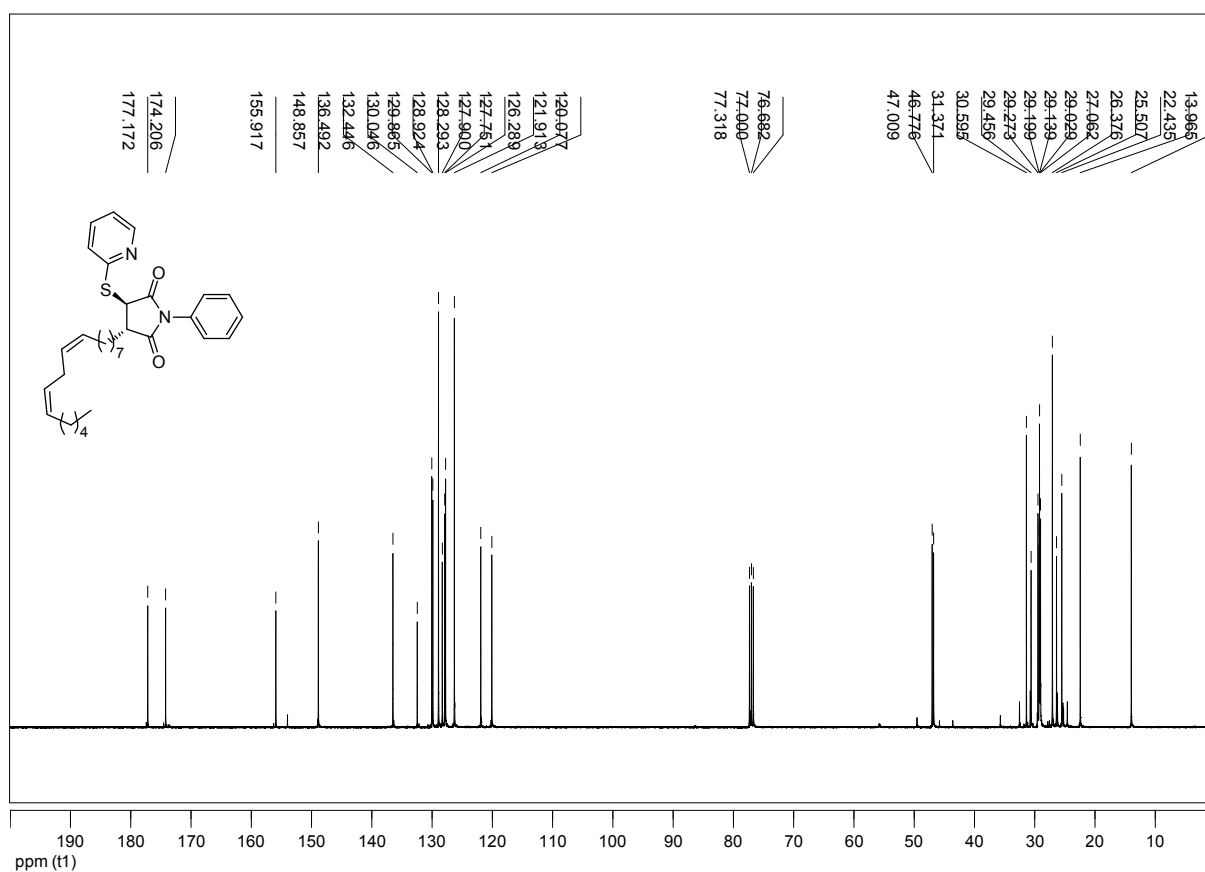
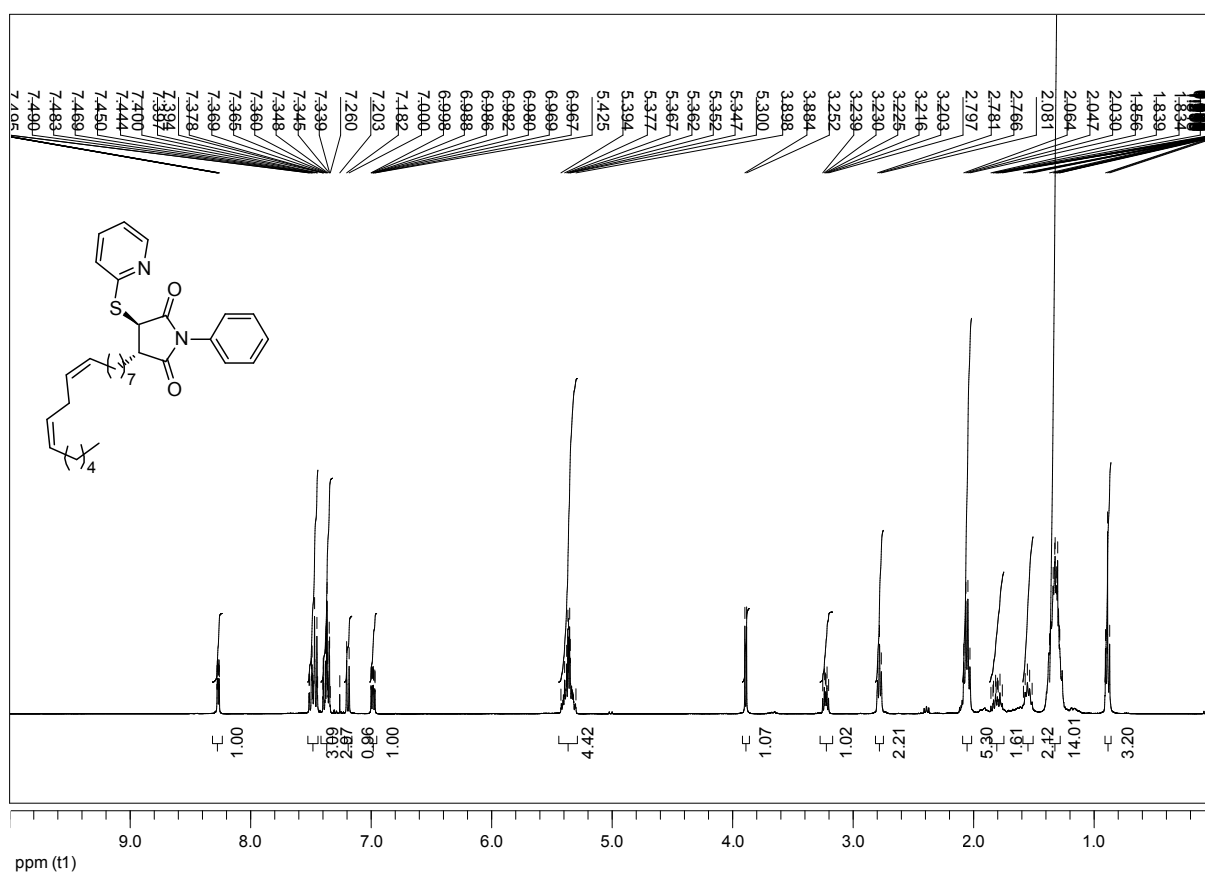
3-Heptadecyl-1-phenyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (± 4)



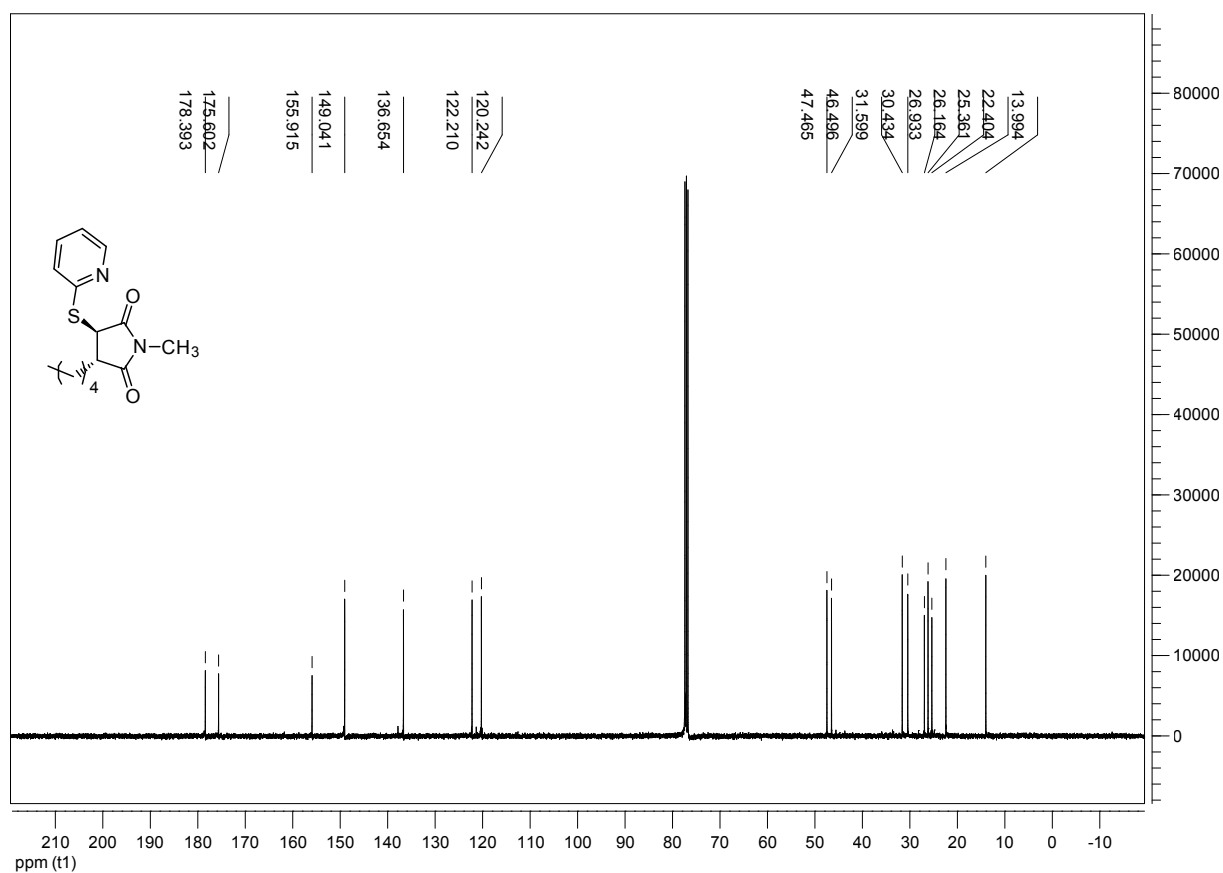
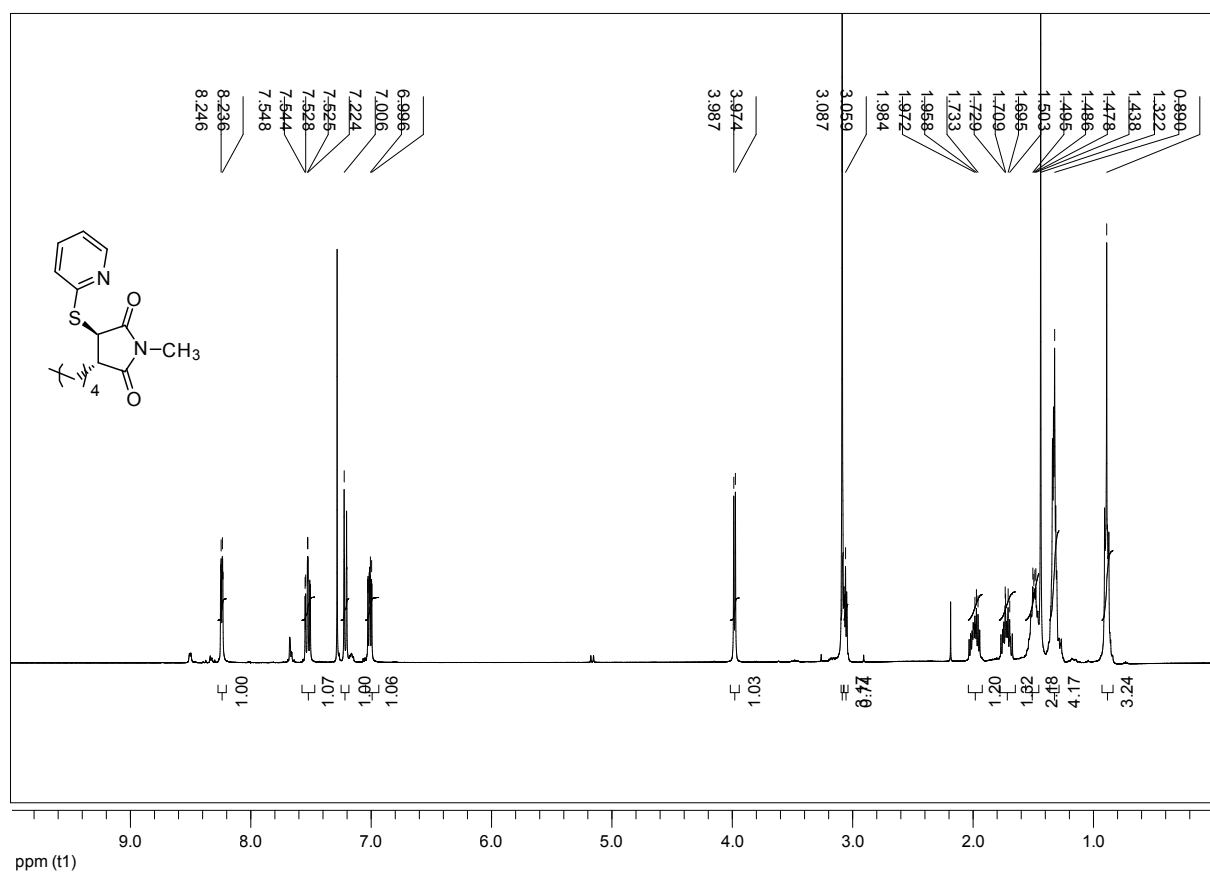
(Z)-3-(Heptadec-8-en-1-yl)-1-phenyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (±5)



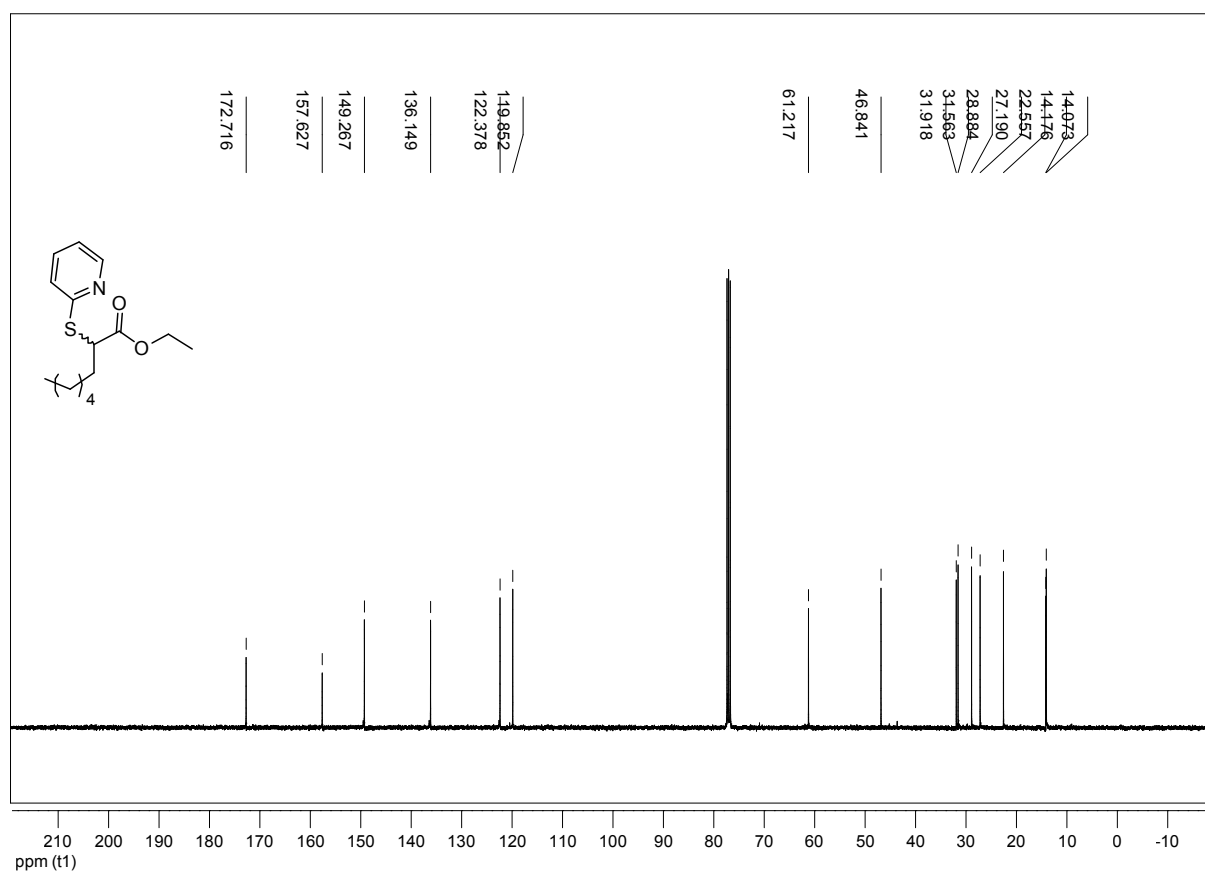
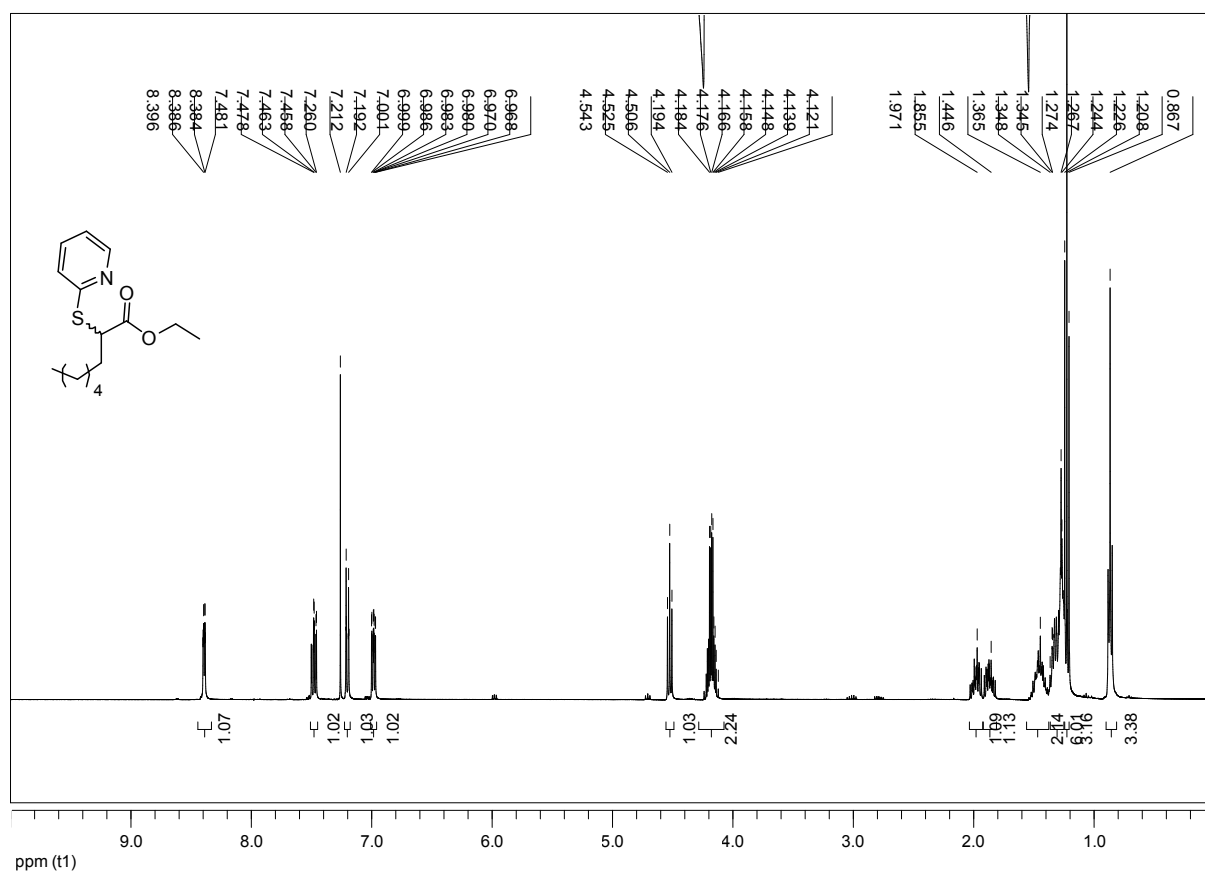
3-((8Z,11Z)-Heptadeca-8,11-dien-1-yl)-1-phenyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (±6)



3-Pentyl-1-methyl-4-(pyridin-2-ylthio)pyrrolidine-2,5-dione (±7)



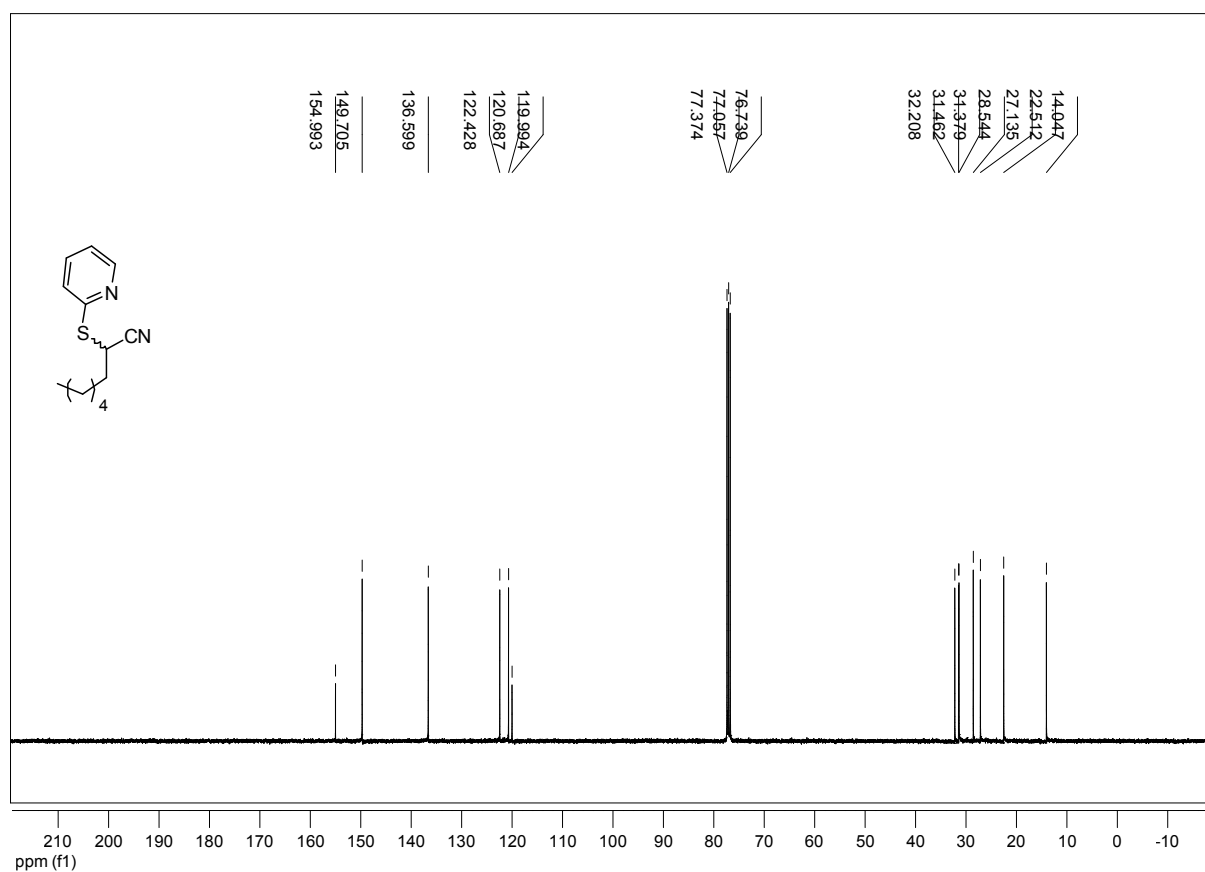
Ethyl 2-(pyridin-2-ylthio)octanoate (±8)



Chemical structure of the polymer repeat unit: *CC(C#N)SC1=CC=CC=N1*

¹H NMR spectrum (CDCl₃) showing peaks and integration values:

Chemical Shift (ppm)	Integration
8.894, 8.893, 8.892, 8.891, 8.890, 8.889, 8.888, 8.887, 8.886, 8.885, 8.884, 8.883, 8.882, 8.881, 8.880, 8.879, 8.878, 8.877, 8.876, 8.875, 8.874, 8.873, 8.872, 8.871, 8.870, 8.869, 8.868, 8.867, 8.866, 8.865, 8.864, 8.863, 8.862, 8.861, 8.860, 8.859, 8.858, 8.857, 8.856, 8.855, 8.854, 8.853, 8.852, 8.851, 8.850, 8.849, 8.848, 8.847, 8.846, 8.845, 8.844, 8.843, 8.842, 8.841, 8.840, 8.839, 8.838, 8.837, 8.836, 8.835, 8.834, 8.833, 8.832, 8.831, 8.830, 8.829, 8.828, 8.827, 8.826, 8.825, 8.824, 8.823, 8.822, 8.821, 8.820, 8.819, 8.818, 8.817, 8.816, 8.815, 8.814, 8.813, 8.812, 8.811, 8.810, 8.809, 8.808, 8.807, 8.806, 8.805, 8.804, 8.803, 8.802, 8.801, 8.800, 8.799, 8.798, 8.797, 8.796, 8.795, 8.794, 8.793, 8.792, 8.791, 8.790, 8.789, 8.788, 8.787, 8.786, 8.785, 8.784, 8.783, 8.782, 8.781, 8.780, 8.779, 8.778, 8.777, 8.776, 8.775, 8.774, 8.773, 8.772, 8.771, 8.770, 8.769, 8.768, 8.767, 8.766, 8.765, 8.764, 8.763, 8.762, 8.761, 8.760, 8.759, 8.758, 8.757, 8.756, 8.755, 8.754, 8.753, 8.752, 8.751, 8.750, 8.749, 8.748, 8.747, 8.746, 8.745, 8.744, 8.743, 8.742, 8.741, 8.740, 8.739, 8.738, 8.737, 8.736, 8.735, 8.734, 8.733, 8.732, 8.731, 8.730, 8.729, 8.728, 8.727, 8.726, 8.725, 8.724, 8.723, 8.722, 8.721, 8.720, 8.719, 8.718, 8.717, 8.716, 8.715, 8.714, 8.713, 8.712, 8.711, 8.710, 8.709, 8.708, 8.707, 8.706, 8.705, 8.704, 8.703, 8.702, 8.701, 8.700, 8.699, 8.698, 8.697, 8.696, 8.695, 8.694, 8.693, 8.692, 8.691, 8.690, 8.689, 8.688, 8.687, 8.686, 8.685, 8.684, 8.683, 8.682, 8.681, 8.680, 8.679, 8.678, 8.677, 8.676, 8.675, 8.674, 8.673, 8.672, 8.671, 8.670, 8.669, 8.668, 8.667, 8.666, 8.665, 8.664, 8.663, 8.662, 8.661, 8.660, 8.659, 8.658, 8.657, 8.656, 8.655, 8.654, 8.653, 8.652, 8.651, 8.650, 8.649, 8.648, 8.647, 8.646, 8.645, 8.644, 8.643, 8.642, 8.641, 8.640, 8.639, 8.638, 8.637, 8.636, 8.635, 8.634, 8.633, 8.632, 8.631, 8.630, 8.629, 8.628, 8.627, 8.626, 8.625, 8.624, 8.623, 8.622, 8.621, 8.620, 8.619, 8.618, 8.617, 8.616, 8.615, 8.614, 8.613, 8.612, 8.611, 8.610, 8.609, 8.608, 8.607, 8.606, 8.605, 8.604, 8.603, 8.602, 8.601, 8.600, 8.599, 8.598, 8.597, 8.596, 8.595, 8.594, 8.593, 8.592, 8.591, 8.590, 8.589, 8.588, 8.587, 8.586, 8.585, 8.584, 8.583, 8.582, 8.581, 8.580, 8.579, 8.578, 8.577, 8.576, 8.575, 8.574, 8.573, 8.572, 8.571, 8.570, 8.569, 8.568, 8.567, 8.566, 8.565, 8.564, 8.563, 8.562, 8.561, 8.560, 8.559, 8.558, 8.557, 8.556, 8.555, 8.554, 8.553, 8.552, 8.551, 8.550, 8.549, 8.548, 8.547, 8.546, 8.545, 8.544, 8.543, 8.542, 8.541, 8.540, 8.539, 8.538, 8.537, 8.536, 8.535, 8.534, 8.533, 8.532, 8.531, 8.530, 8.529, 8.528, 8.527, 8.526, 8.525, 8.524, 8.523, 8.522, 8.521, 8.520, 8.519, 8.518, 8.517, 8.516, 8.515, 8.514, 8.513, 8.512, 8.511, 8.510, 8.509, 8.508, 8.507, 8.506, 8.505, 8.504, 8.503, 8.502, 8.501, 8.500, 8.499, 8.498, 8.497, 8.496, 8.495, 8.494, 8.493, 8.492, 8.491, 8.490, 8.489, 8.488, 8.487, 8.486, 8.485, 8.484, 8.483, 8.482, 8.481, 8.480, 8.479, 8.478, 8.477, 8.476, 8.475, 8.474, 8.473, 8.472, 8.471, 8.470, 8.469, 8.468, 8.467, 8.466, 8.465, 8.464, 8.463, 8.462, 8.461, 8.460, 8.459, 8.458, 8.457, 8.456, 8.455, 8.454, 8.453, 8.452, 8.451, 8.450, 8.449, 8.448, 8.447, 8.446, 8.445, 8.444, 8.443, 8.442, 8.441, 8.440, 8.439, 8.438, 8.437, 8.436, 8.435, 8.434, 8.433, 8.432, 8.431, 8.430, 8.429, 8.428, 8.427, 8.426, 8.425, 8.424, 8.423, 8.422, 8.421, 8.420, 8.419, 8.418, 8.417, 8.416, 8.415, 8.414, 8.413, 8.412, 8.411, 8.410, 8.409, 8.408, 8.407, 8.406, 8.405, 8.404, 8.403, 8.402, 8.401, 8.400, 8.399, 8.398, 8.397, 8.396, 8.395, 8.394, 8.393, 8.392, 8.391, 8.390, 8.389, 8.388, 8.387, 8.386, 8.385, 8.384, 8.383, 8.382, 8.381, 8.380, 8.379, 8.378, 8.377, 8.376, 8.375, 8.374, 8.373, 8.372, 8.371, 8.370, 8.369, 8.368, 8.367, 8.366, 8.365, 8.364, 8.363, 8.362, 8.361, 8.360, 8.359, 8.358, 8.357, 8.356, 8.355, 8.354, 8.353, 8.352, 8.351, 8.350, 8.349, 8.348, 8.347, 8.346, 8.345, 8.344, 8.343, 8.342, 8.341, 8.340, 8.339, 8.338, 8.337, 8.336, 8.335, 8.334,	



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