

1 **he synthesis of some novel stilbene dimers incorporating diamide tethers: studies in single**  
2 **electron transfer oxidation (FeCl<sub>3</sub>)**

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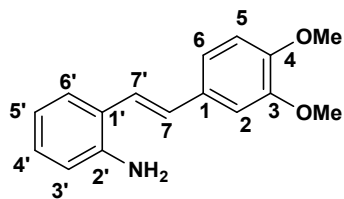
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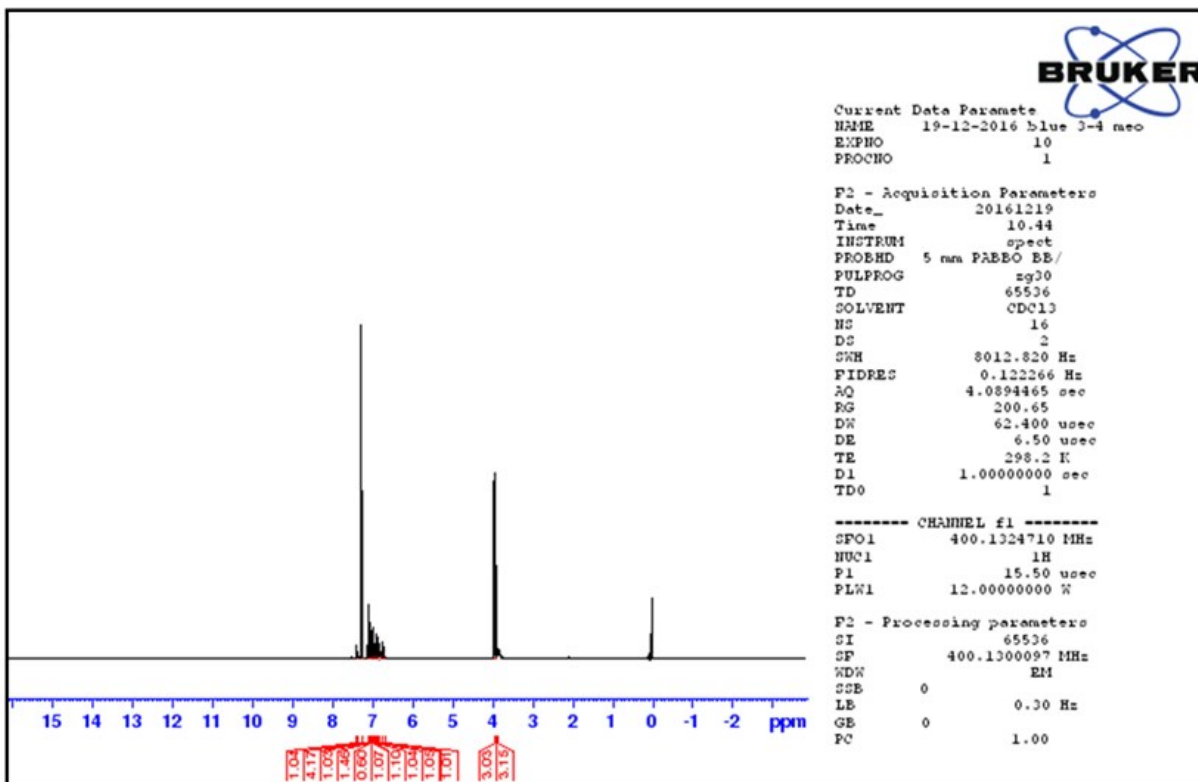


Figure S1: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline.

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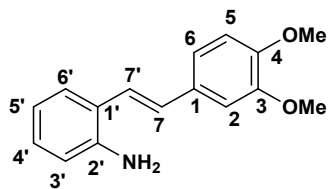
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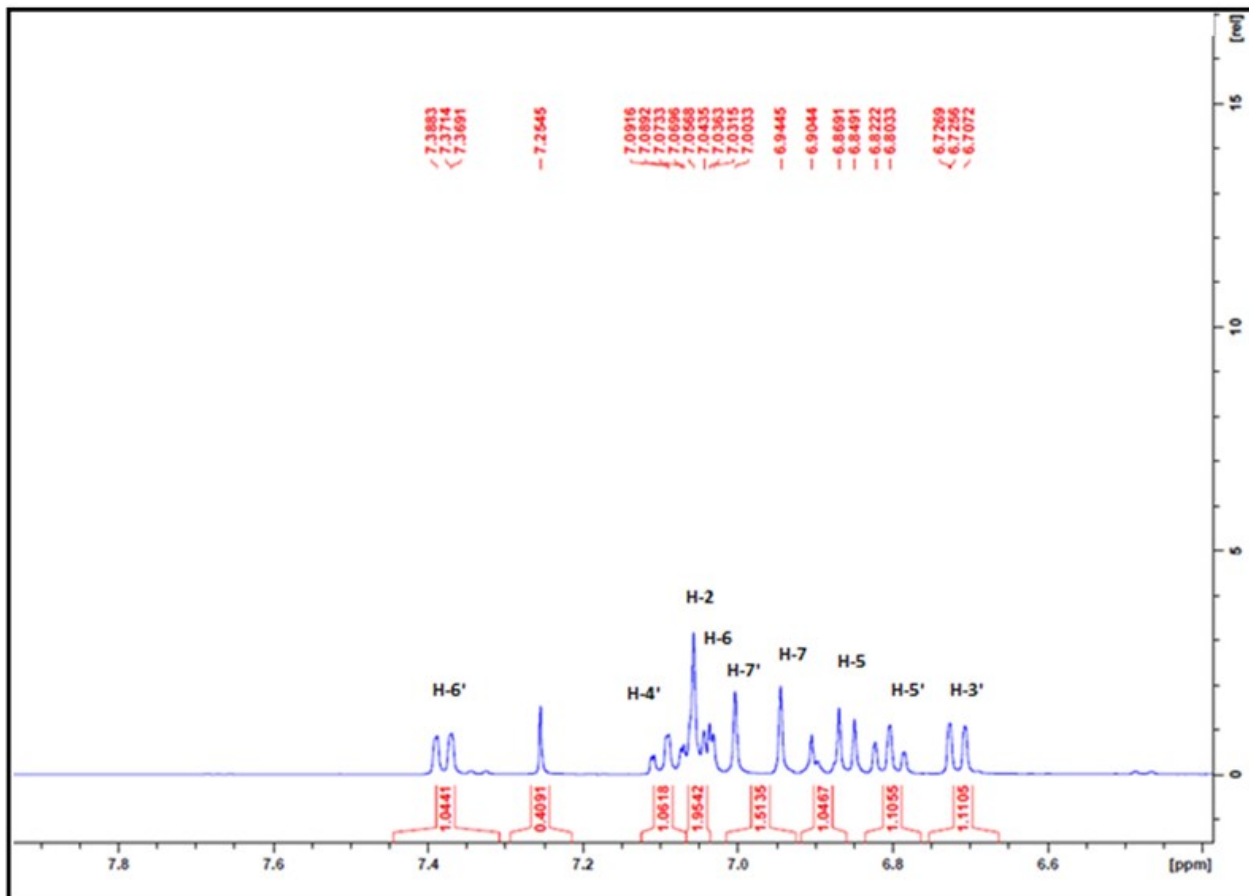
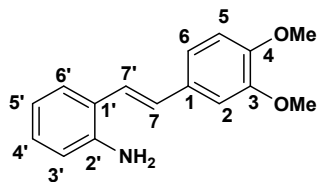
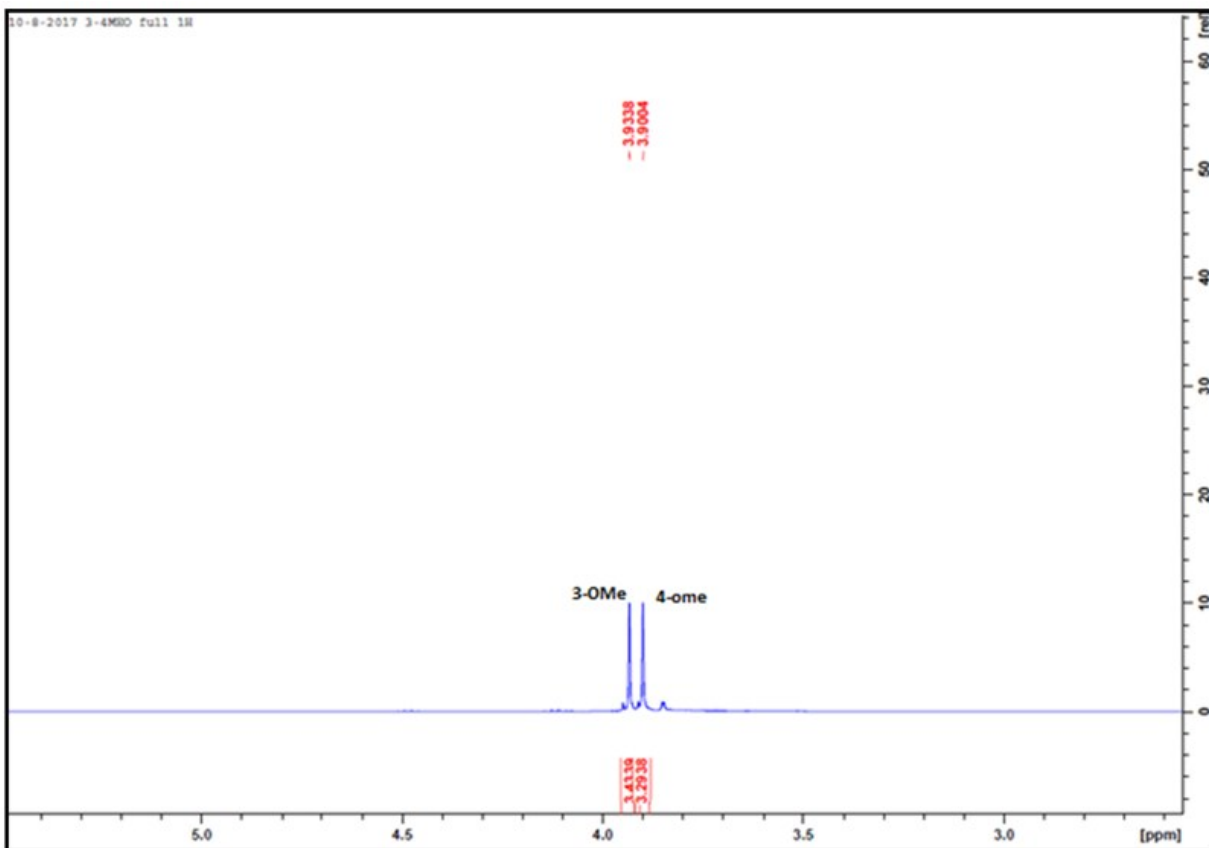


Figure S2: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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Figure S3:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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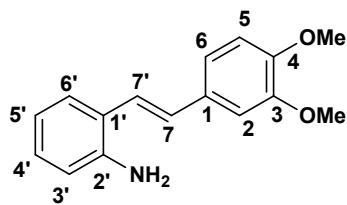
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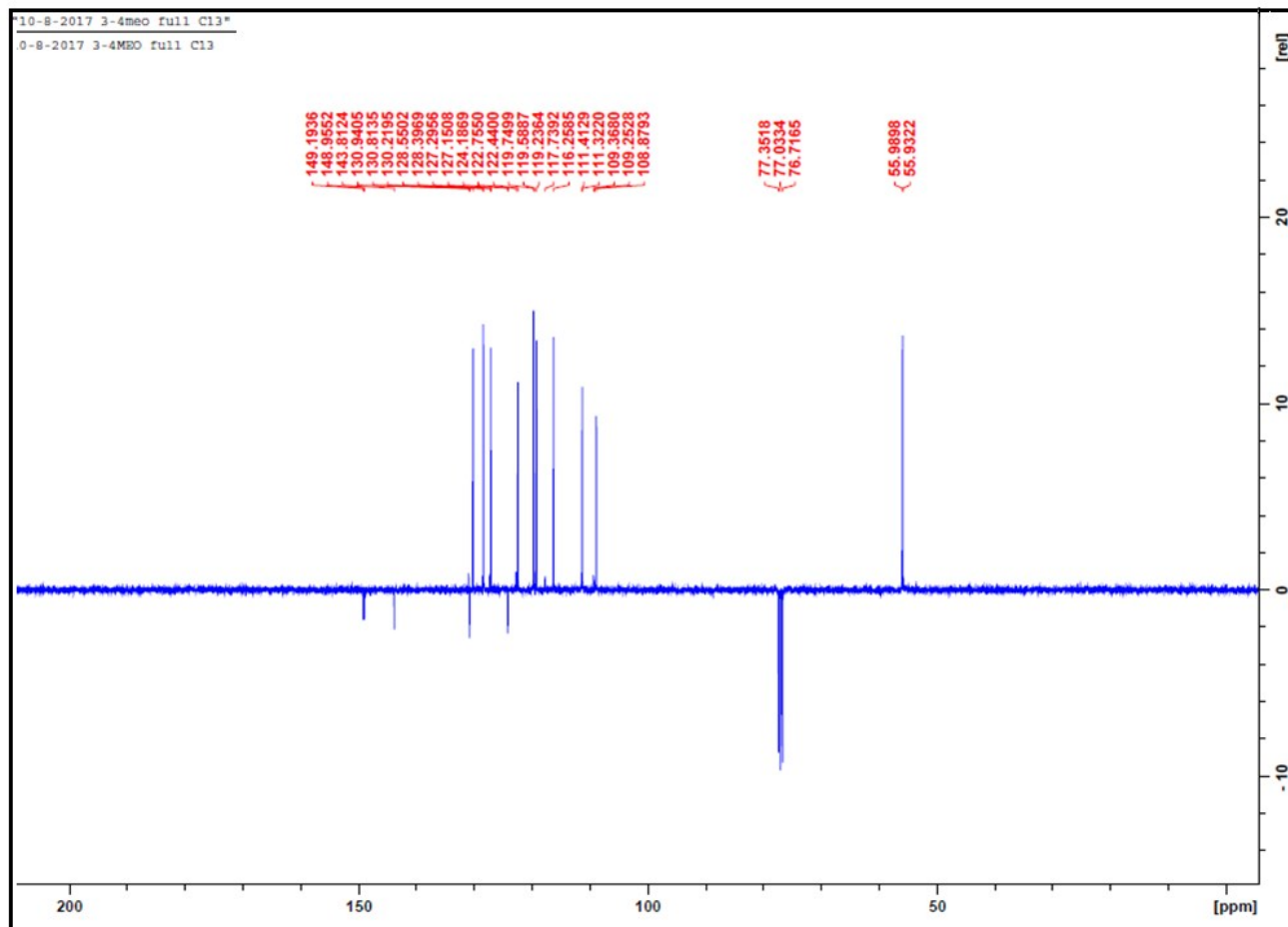
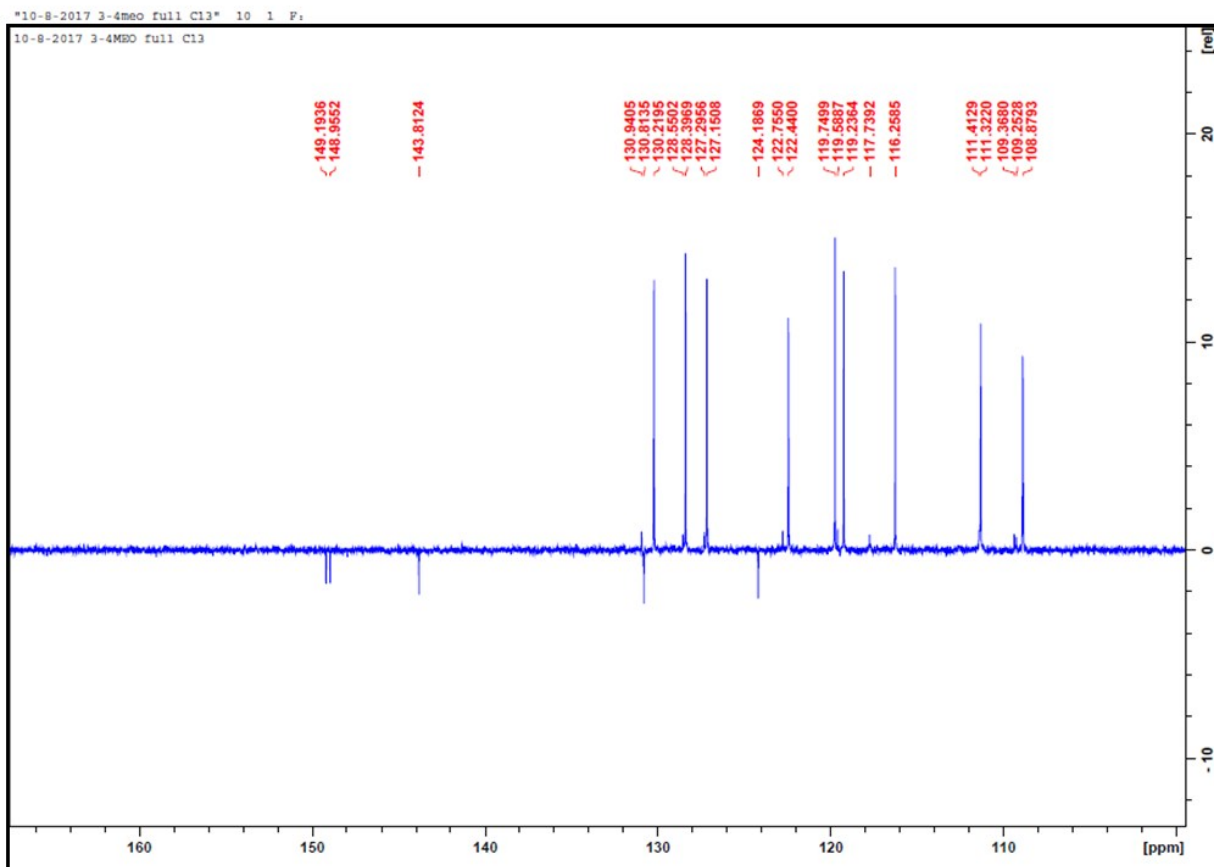
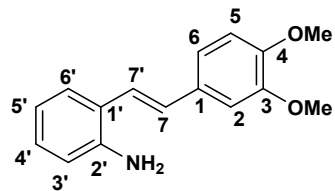


Figure S4:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline.

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Figure S5:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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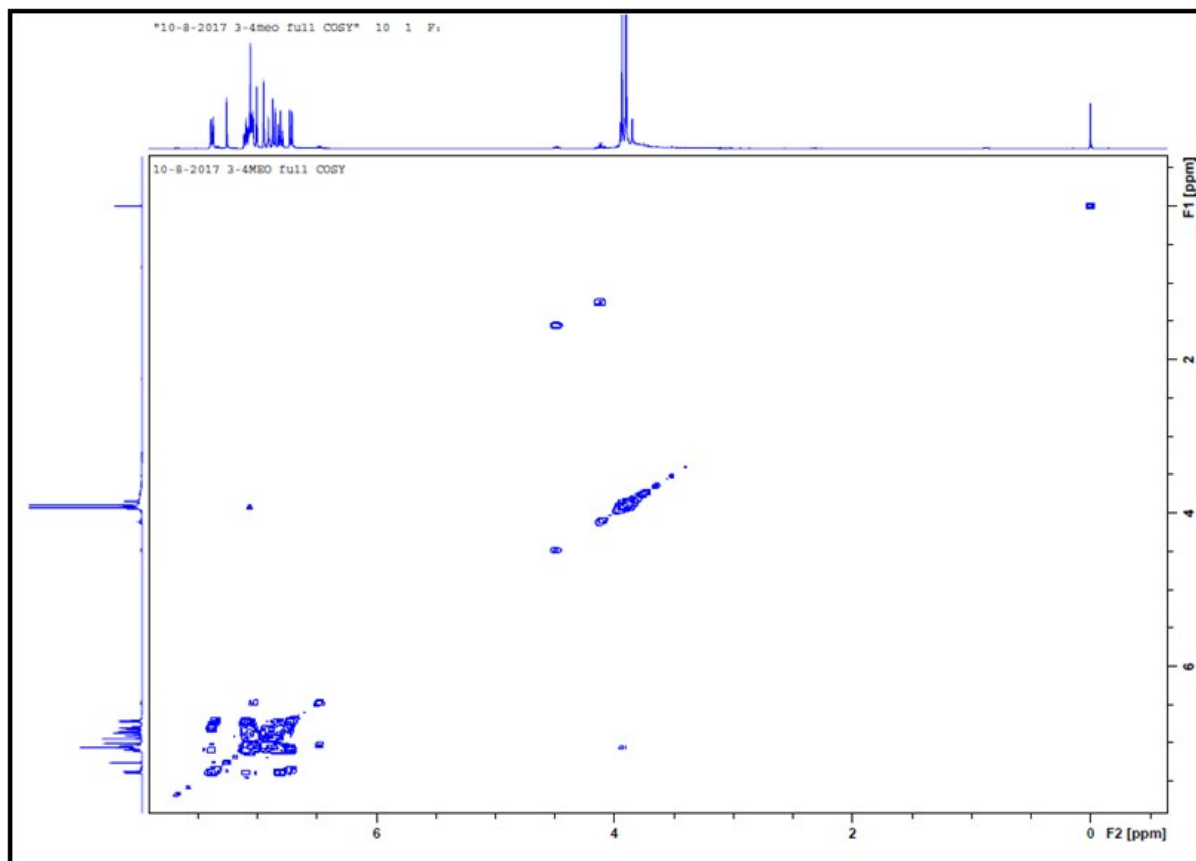
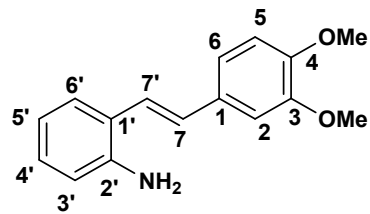
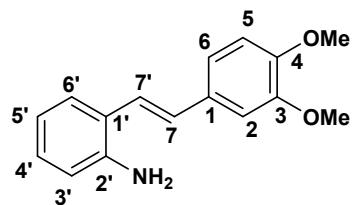


Figure S6: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline.



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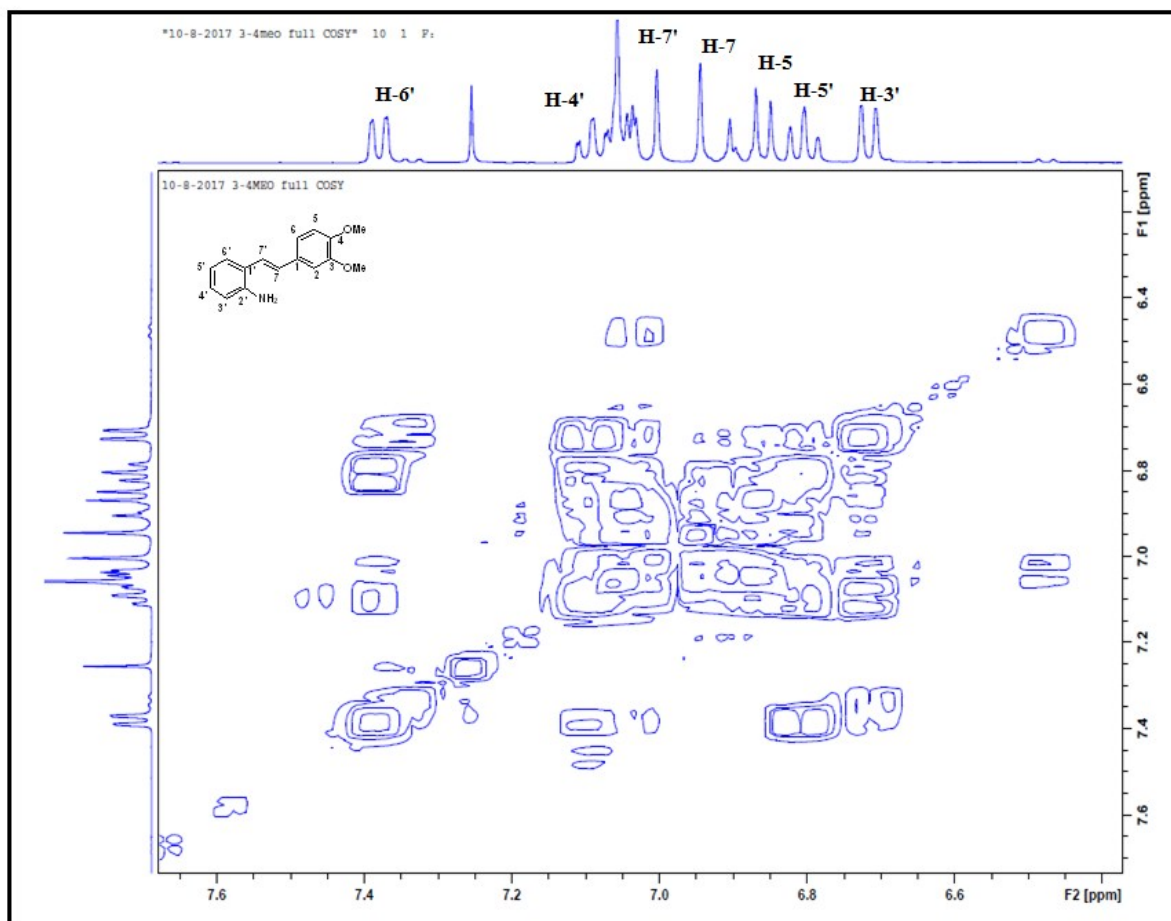
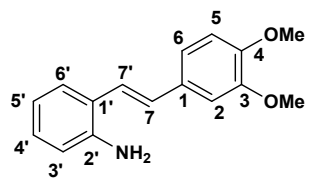


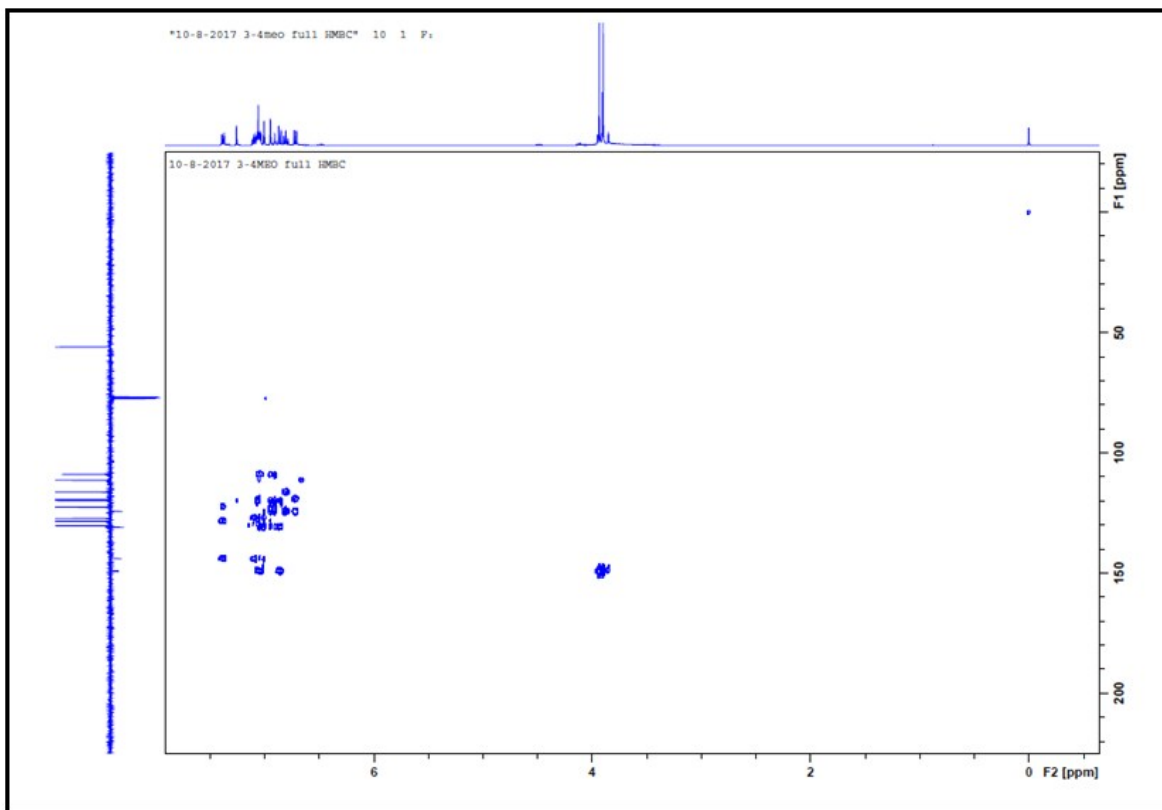
Figure S7: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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3 **Figure S8: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline.**

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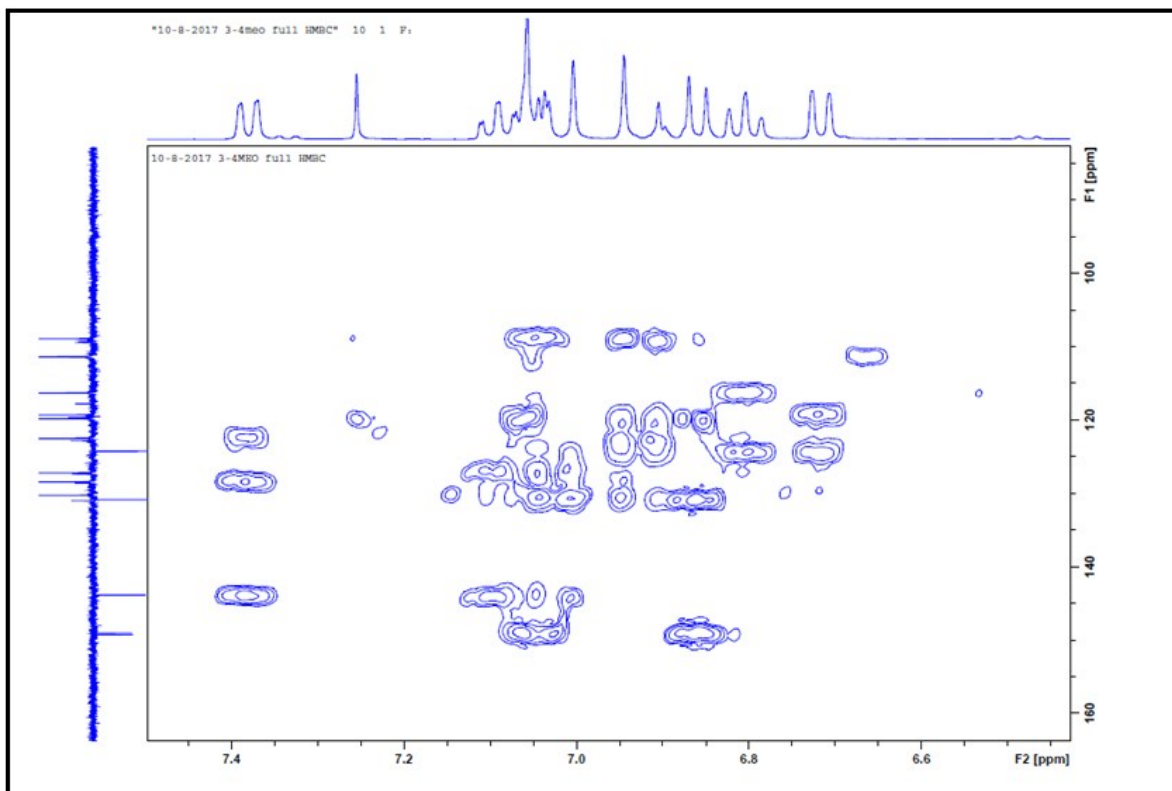
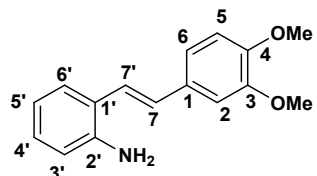
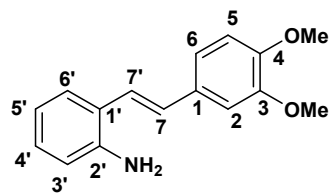


Figure S9: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).



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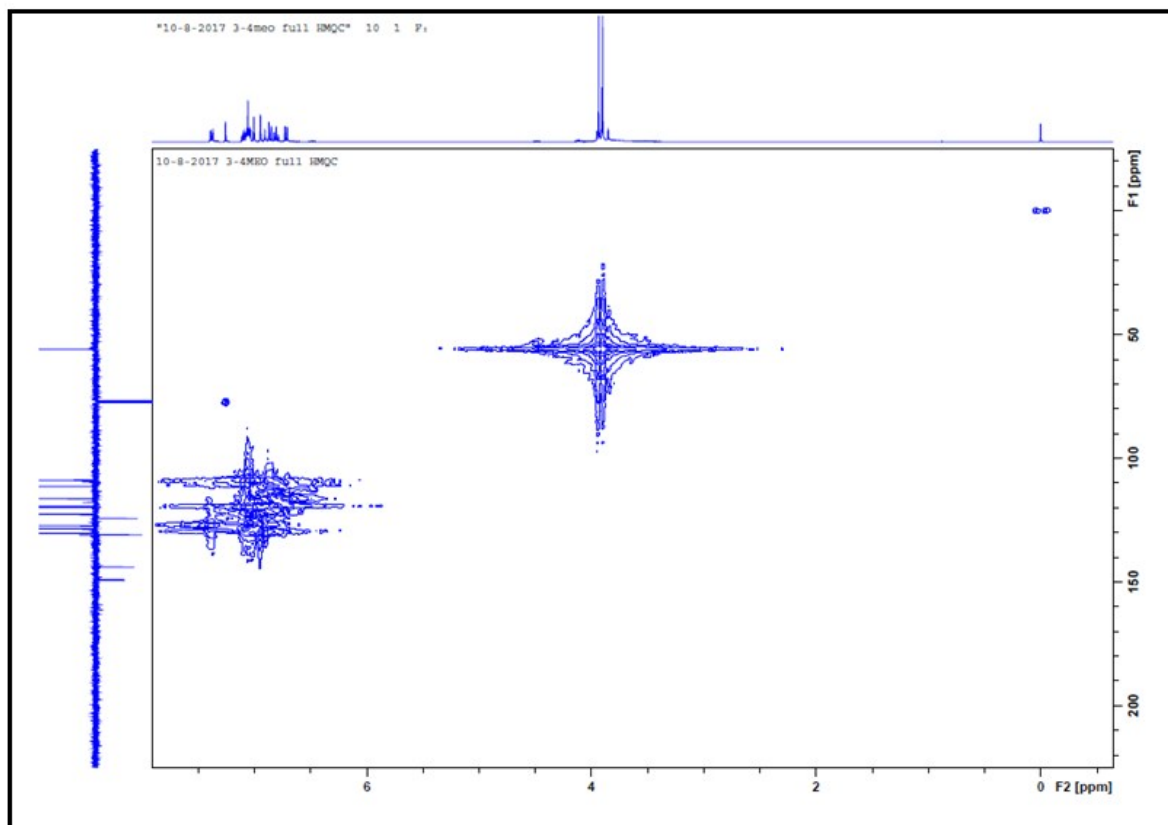
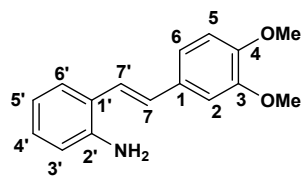


Figure S10:  $^{13}\text{C}$  HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline.

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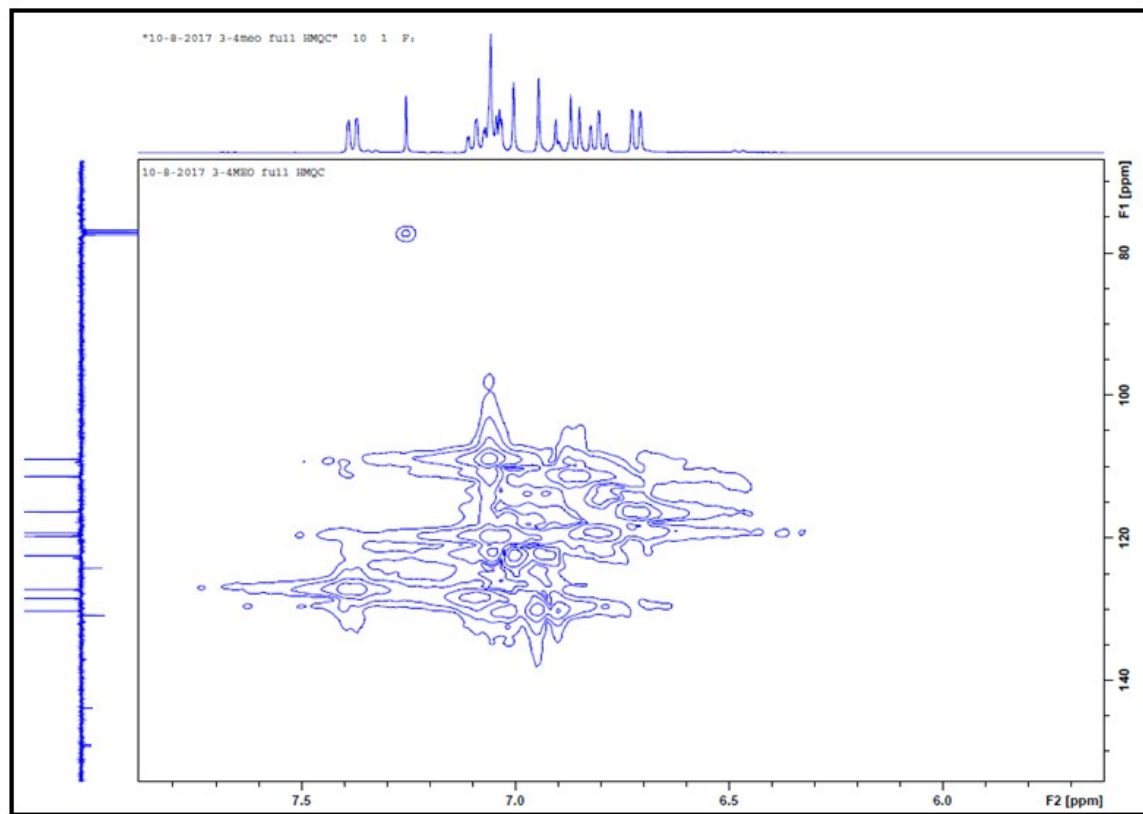
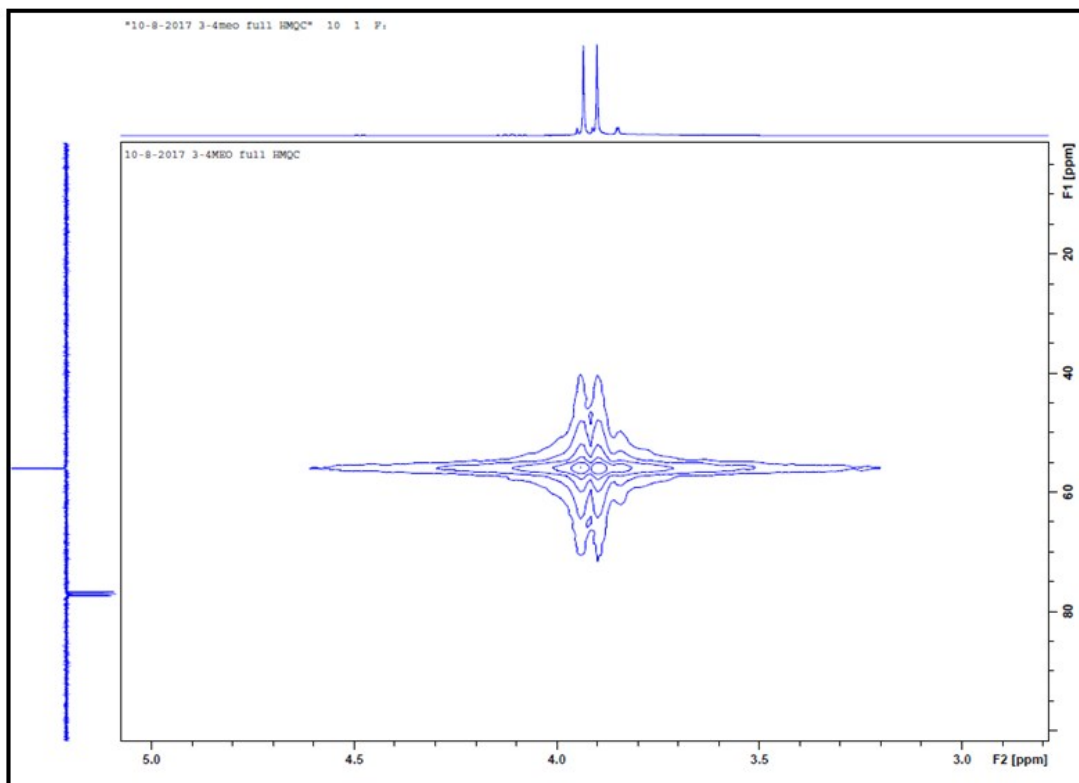
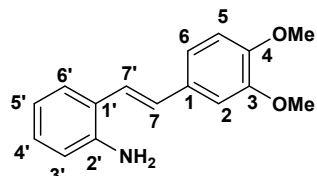


Figure S11:  $^1\text{H}$ - $^{13}\text{C}$  HMQC GP  $\{^1\text{H}$ - $^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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Figure S12: C HMQC GP {<sup>1</sup>H-<sup>13</sup>C}(CDCl<sub>3</sub>, 400MHz) spectrum of compound (E)-2-(3,4-dimethoxystyryl)aniline (EXPANSION).

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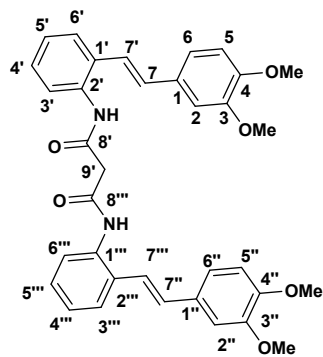
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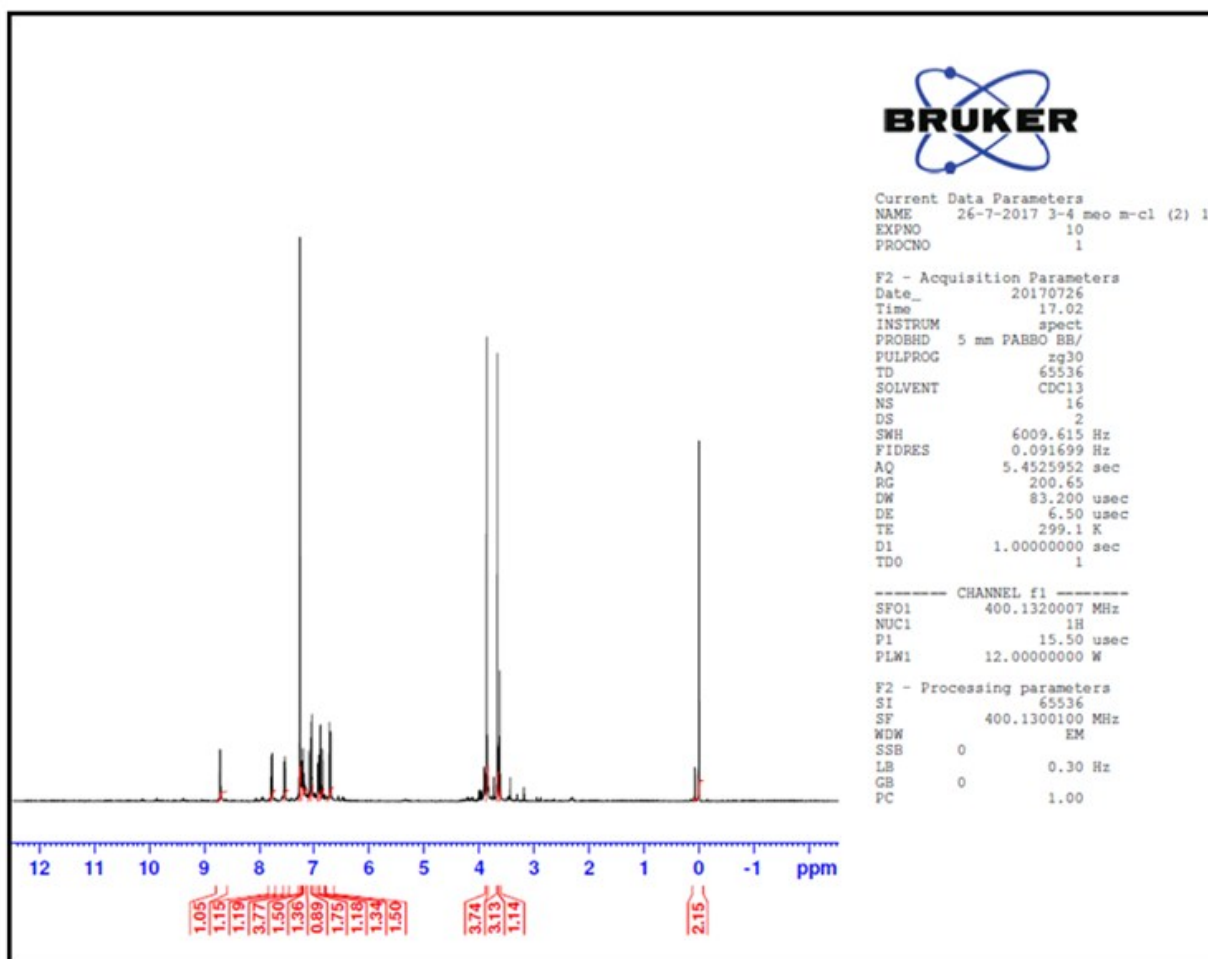


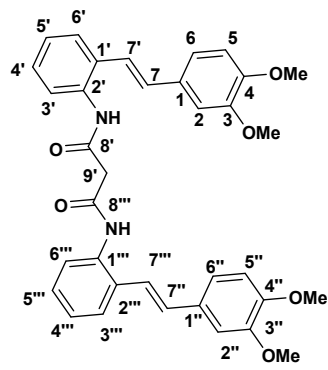
Figure S13: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2-(E)-3,4-dimethoxystyryl)phenyl malonamide.

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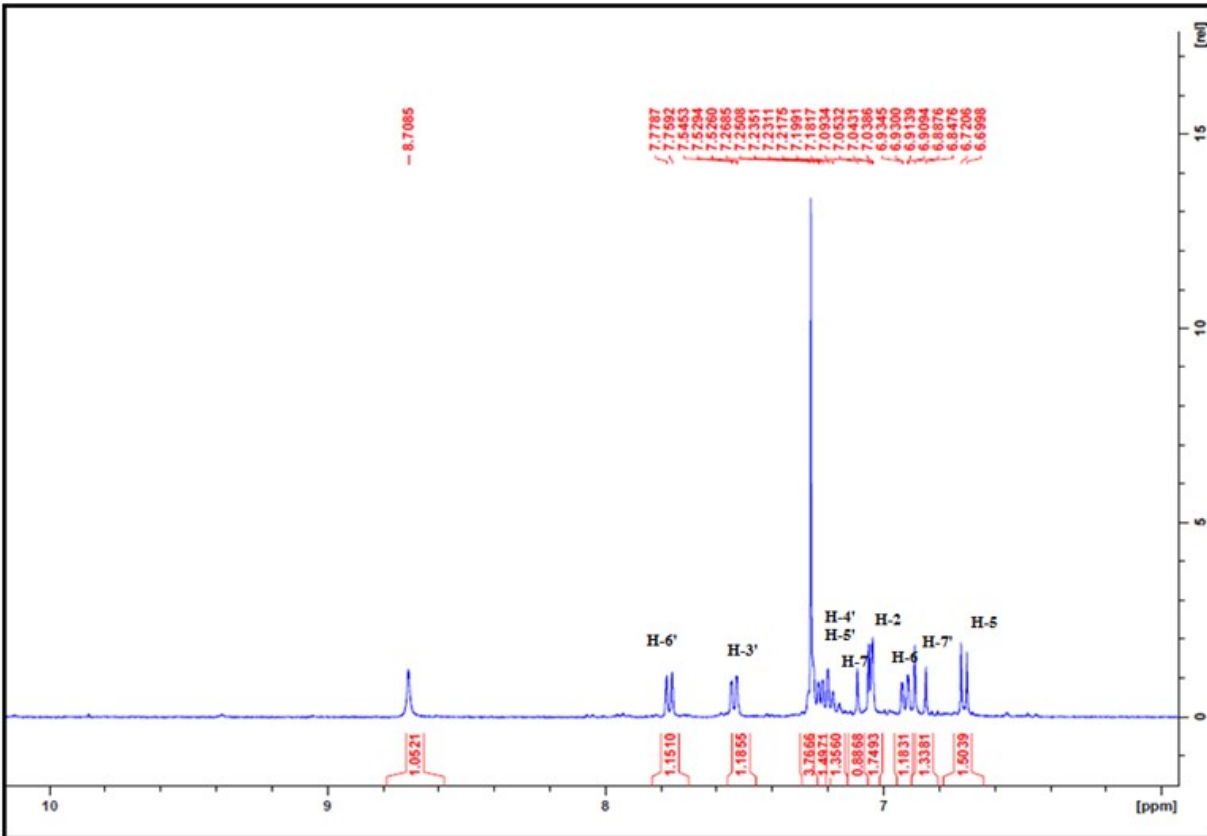
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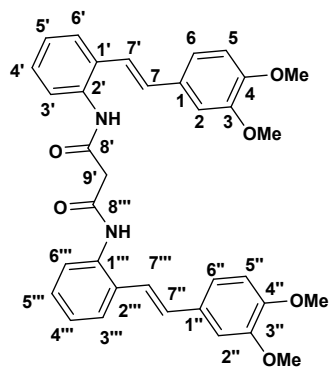


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Figure S14: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2-(E)-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).



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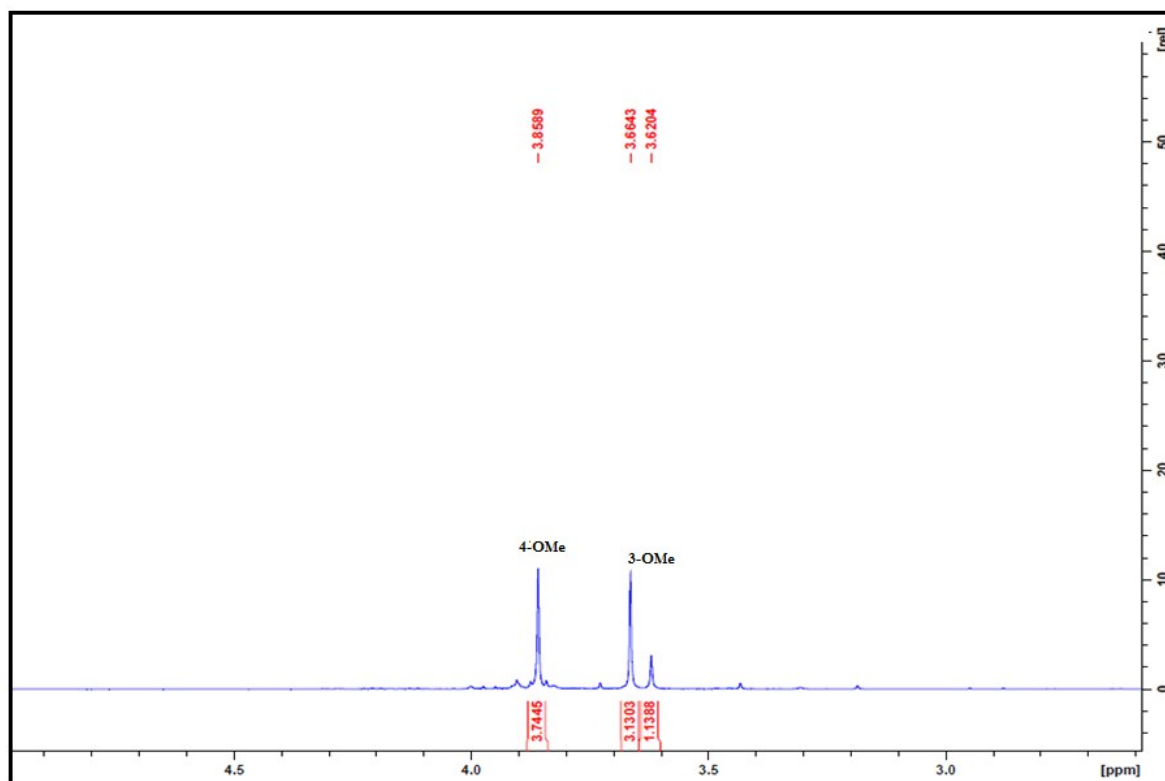
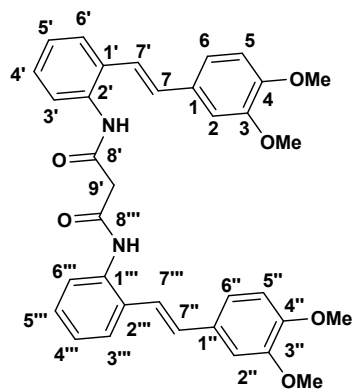


Figure S15:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2-(E)-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

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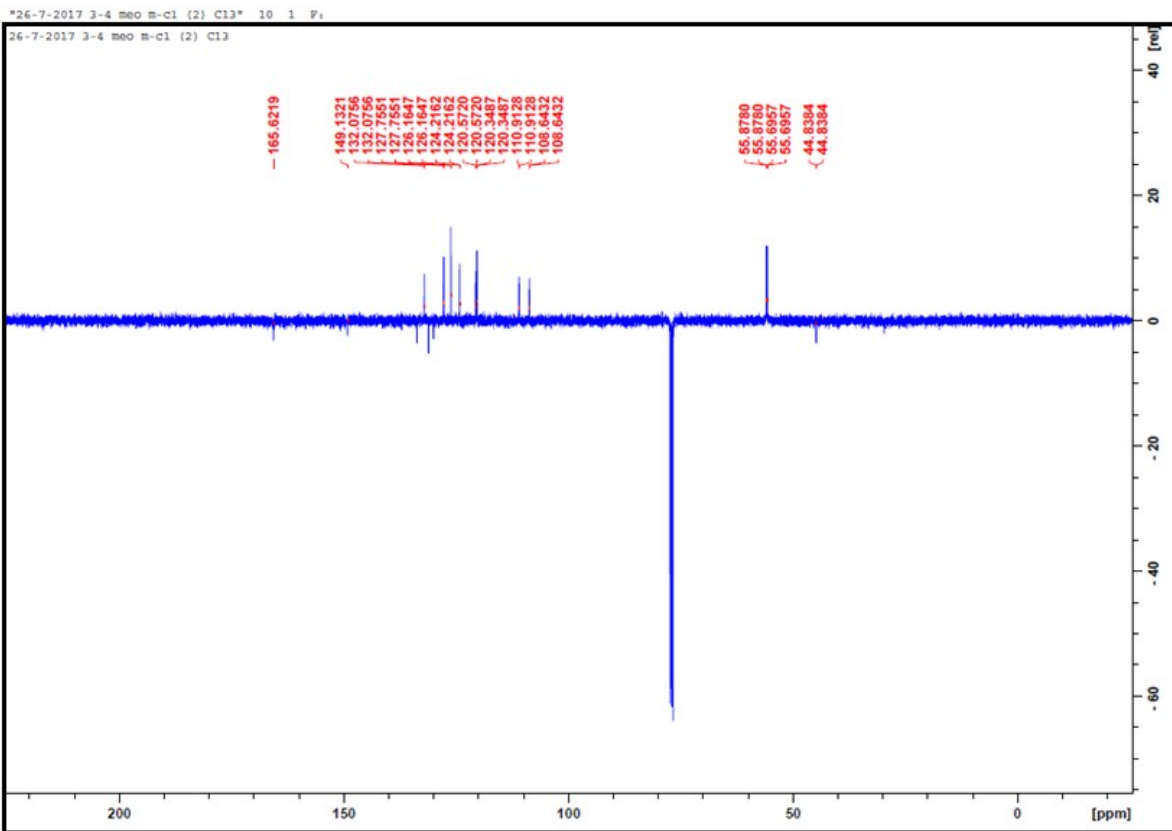
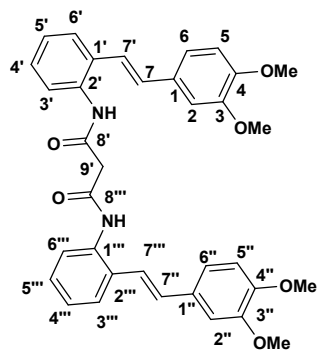


Figure S16:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2-(E)-3,4-dimethoxystyryl)phenyl malonamide.

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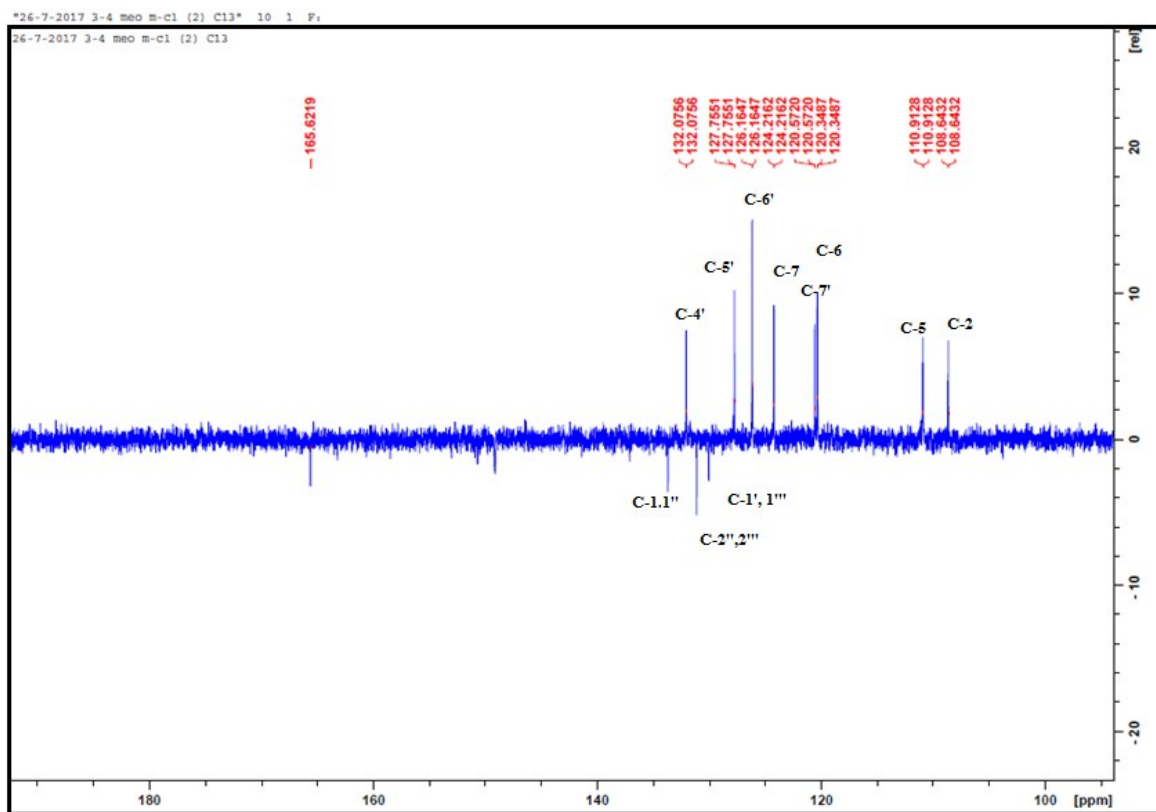
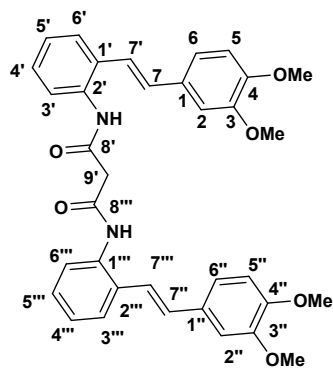


Figure S17:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2-(E)-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

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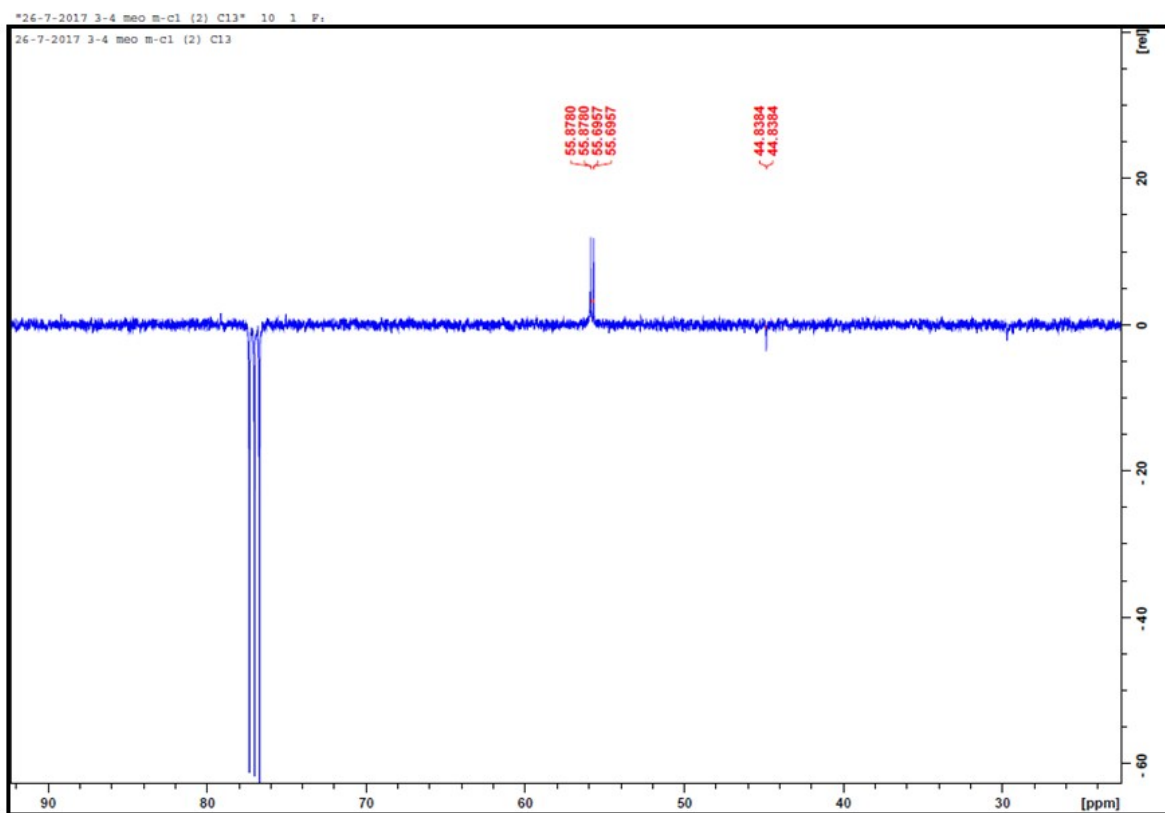
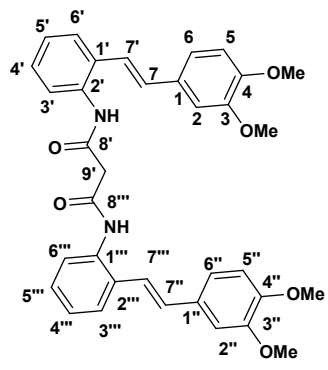
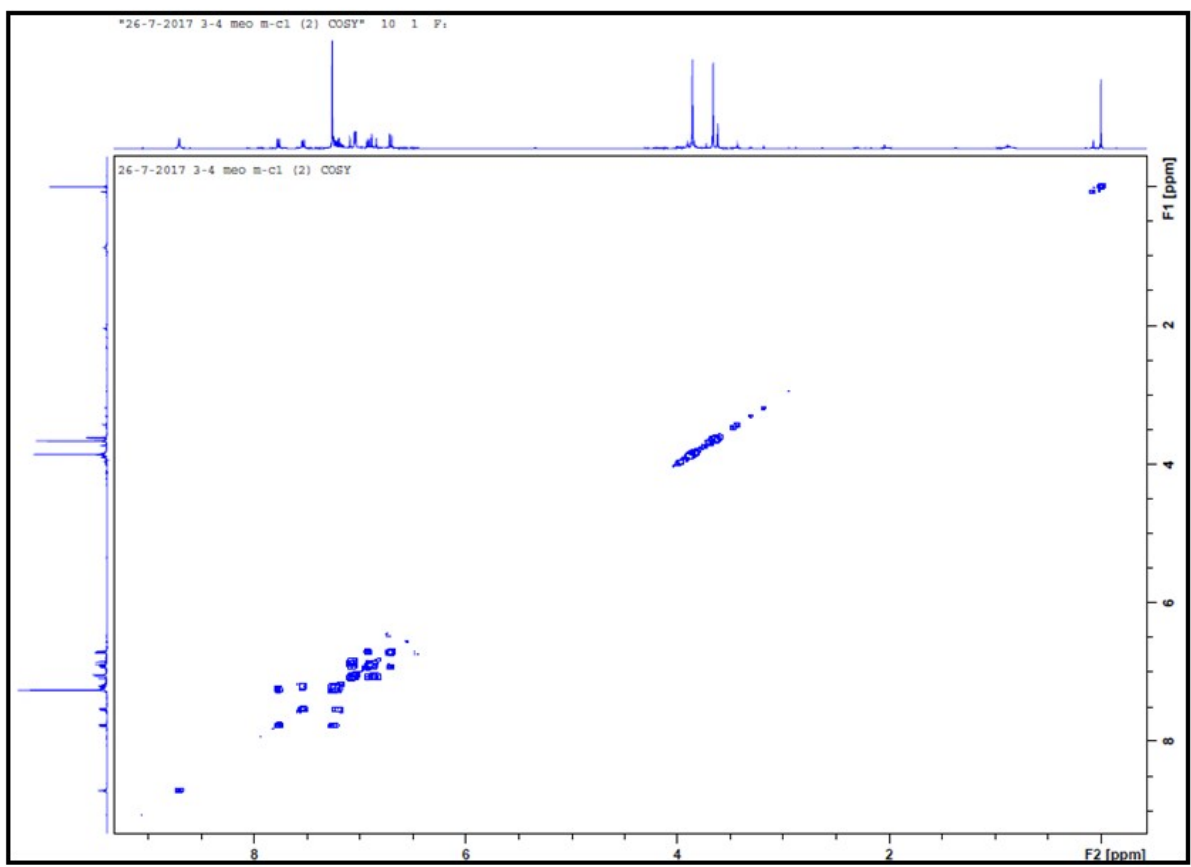


Figure S18:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E)-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

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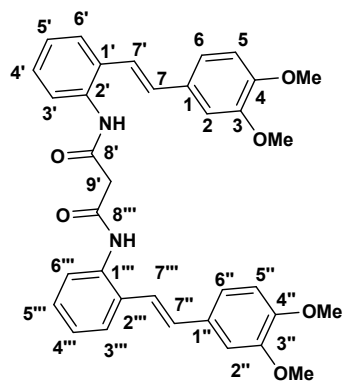


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Figure S19: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E)-3,4-dimethoxystyryl)phenyl malonamide.



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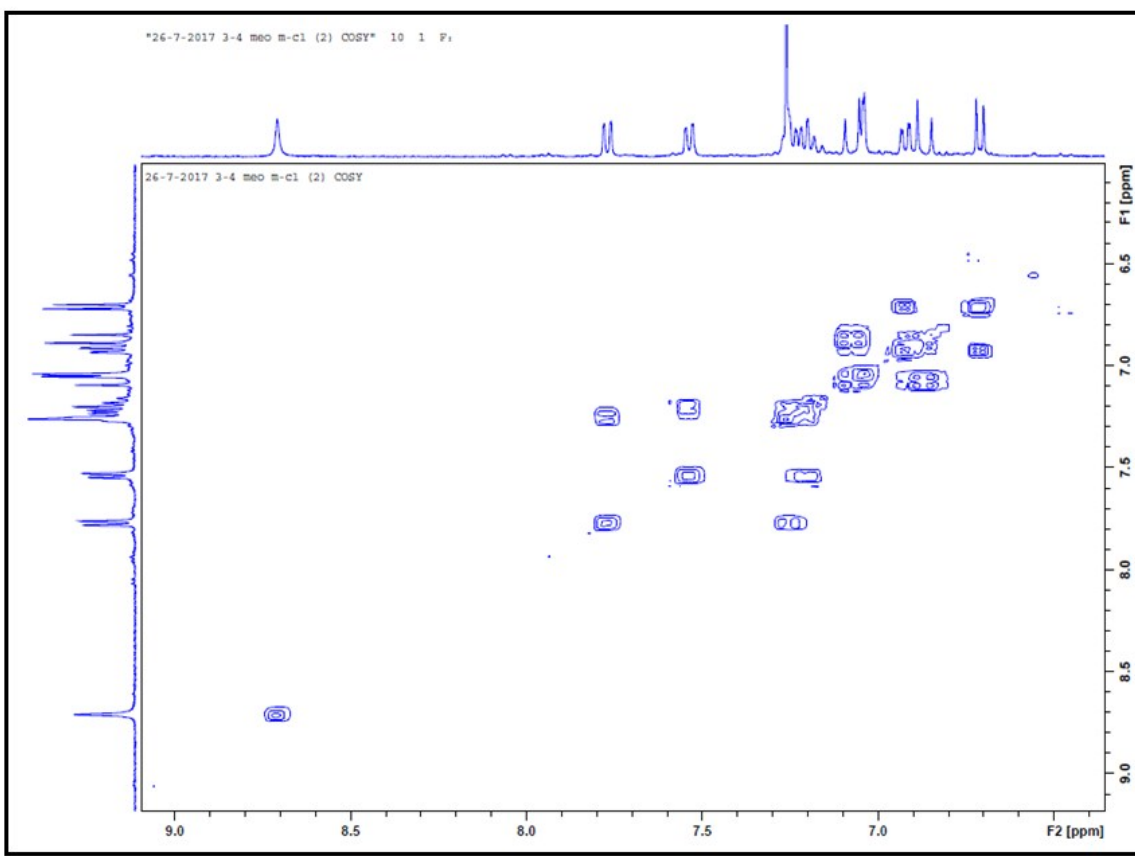
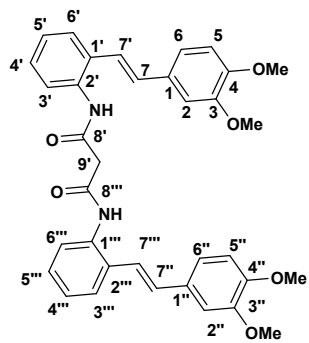
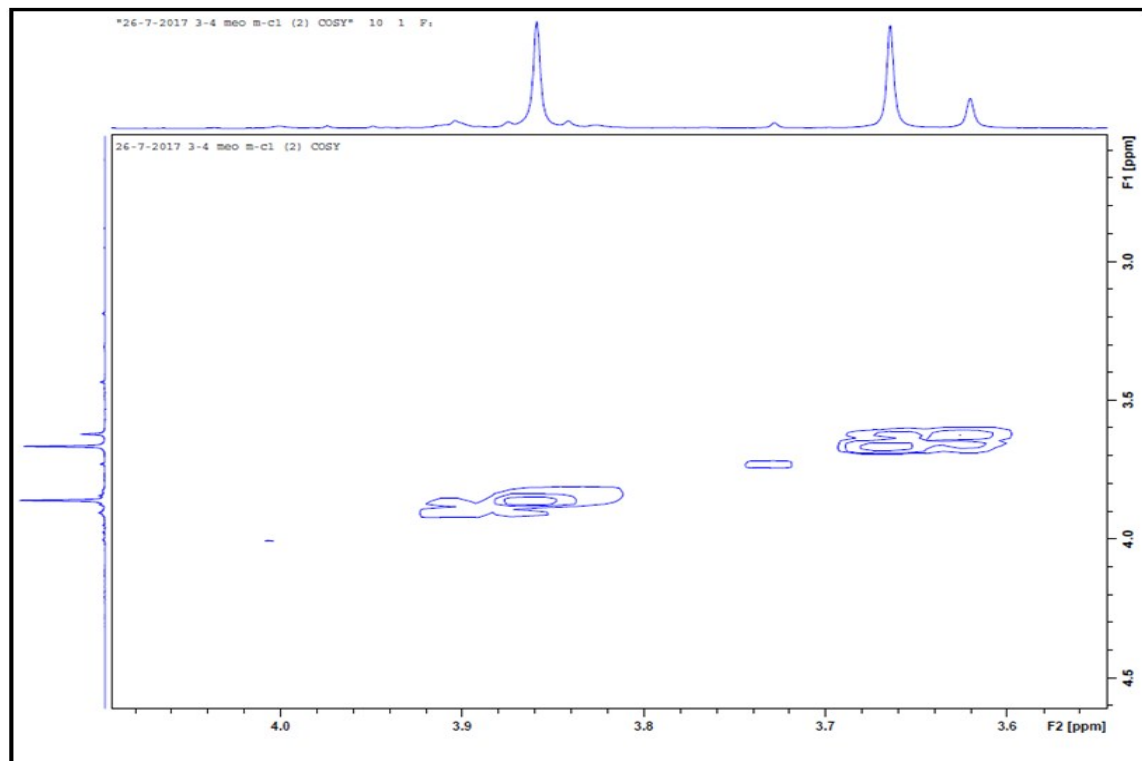


Figure S20: <sup>2</sup>C COSY GPSW <sup>1</sup>H(CDCl<sub>3</sub>, 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

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Figure S21: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2-(E)-3,4 dimethoxystyryl)phenyl malonamide (EXPANSION).

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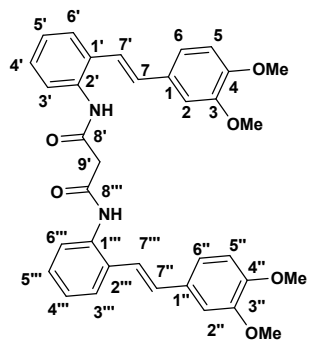
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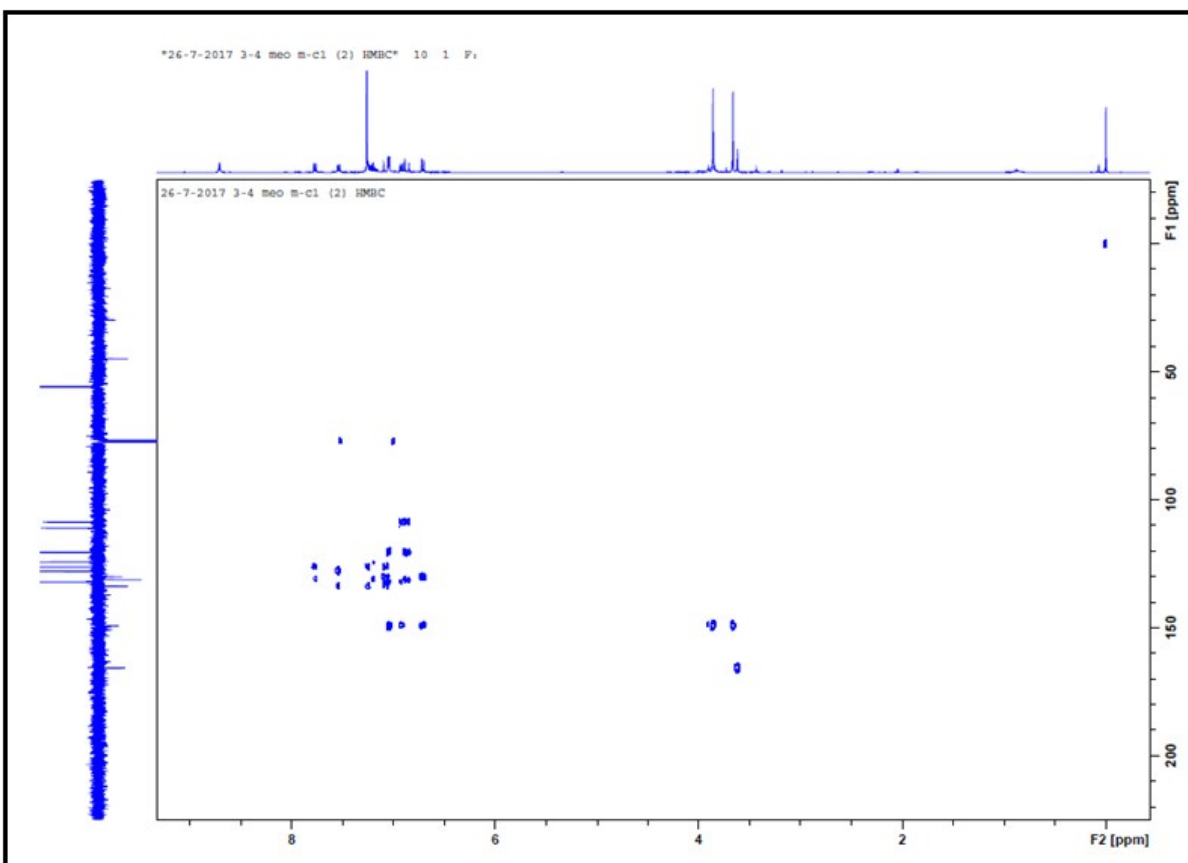
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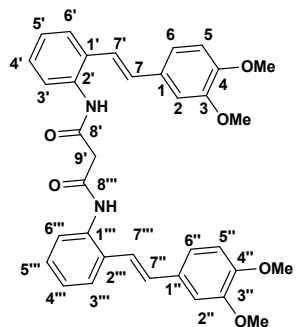


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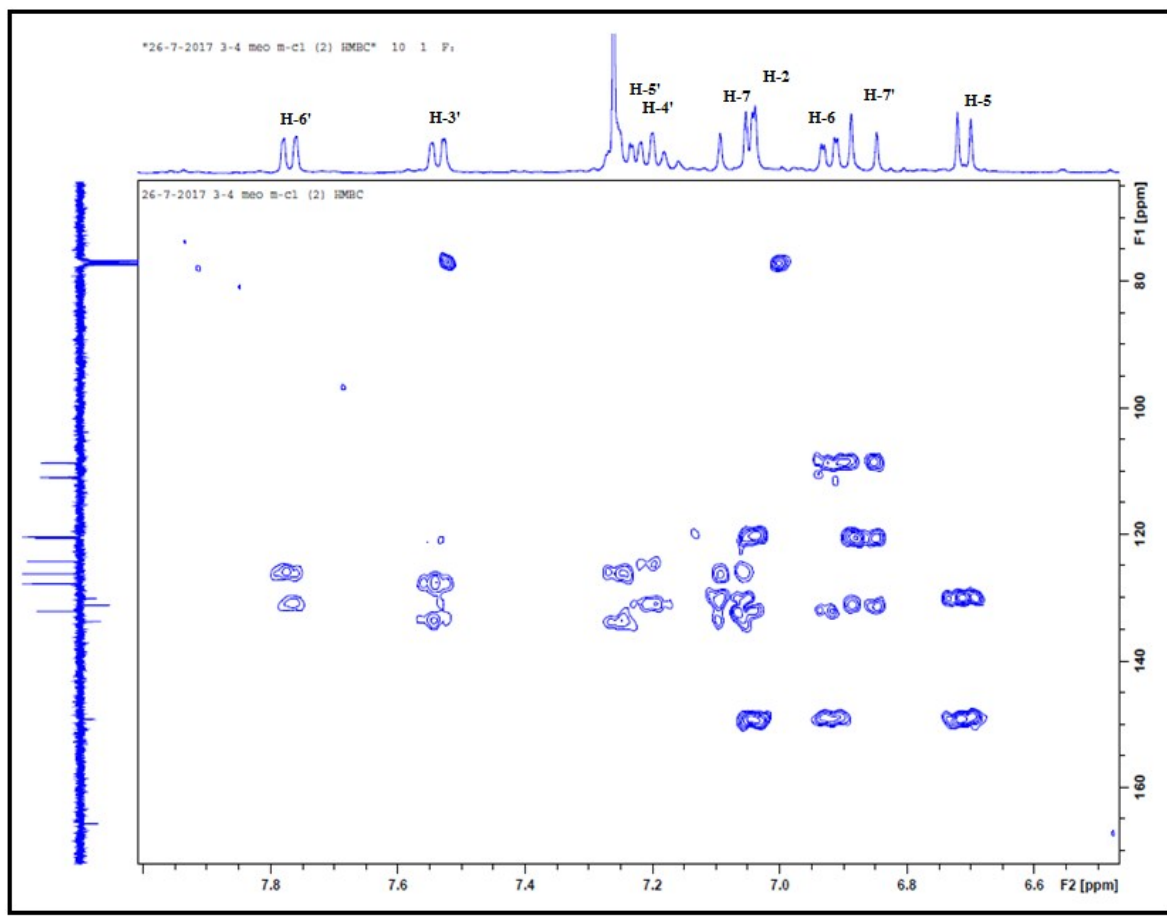


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Figure S22: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide.



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Figure S23: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

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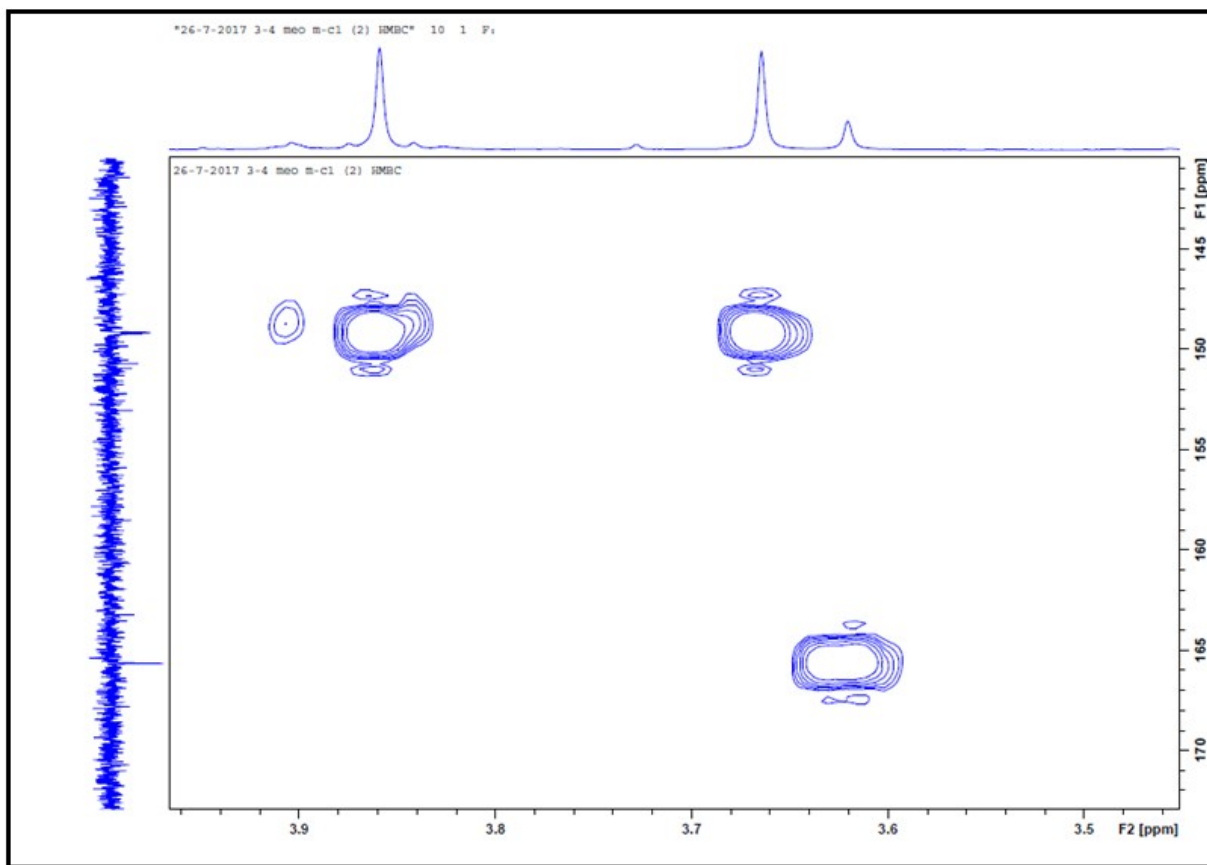
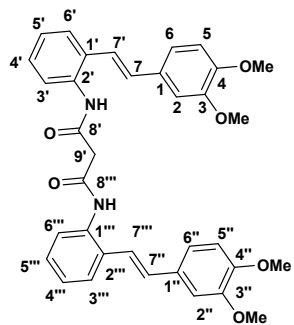
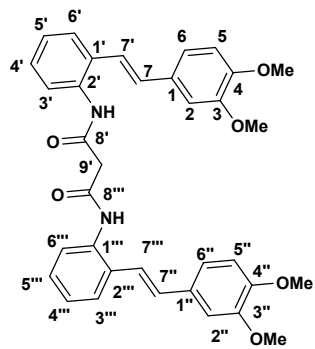
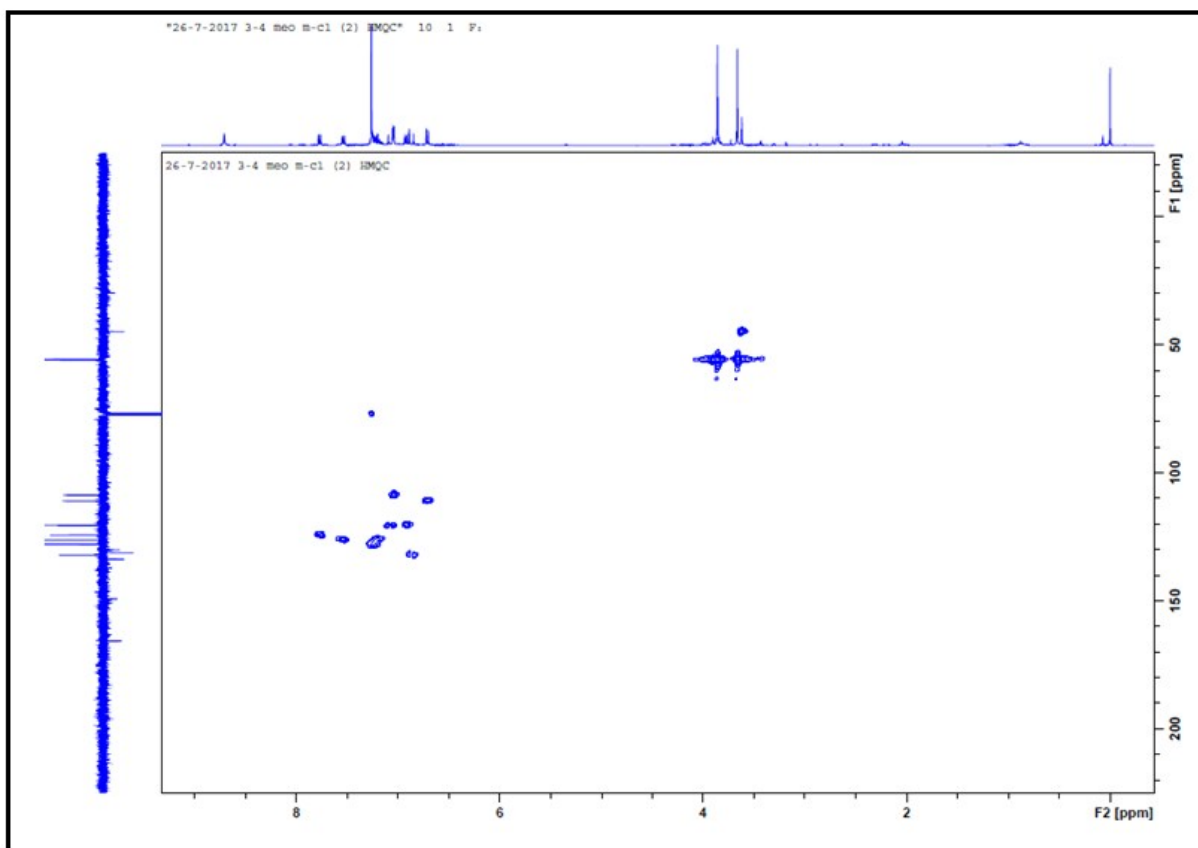


Figure S24: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).



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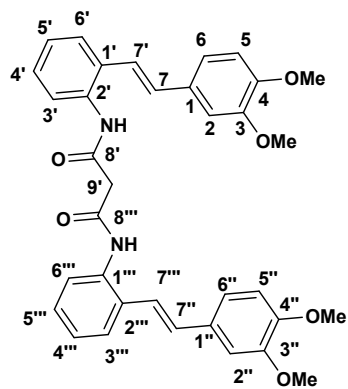
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**Figure S25: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide.**



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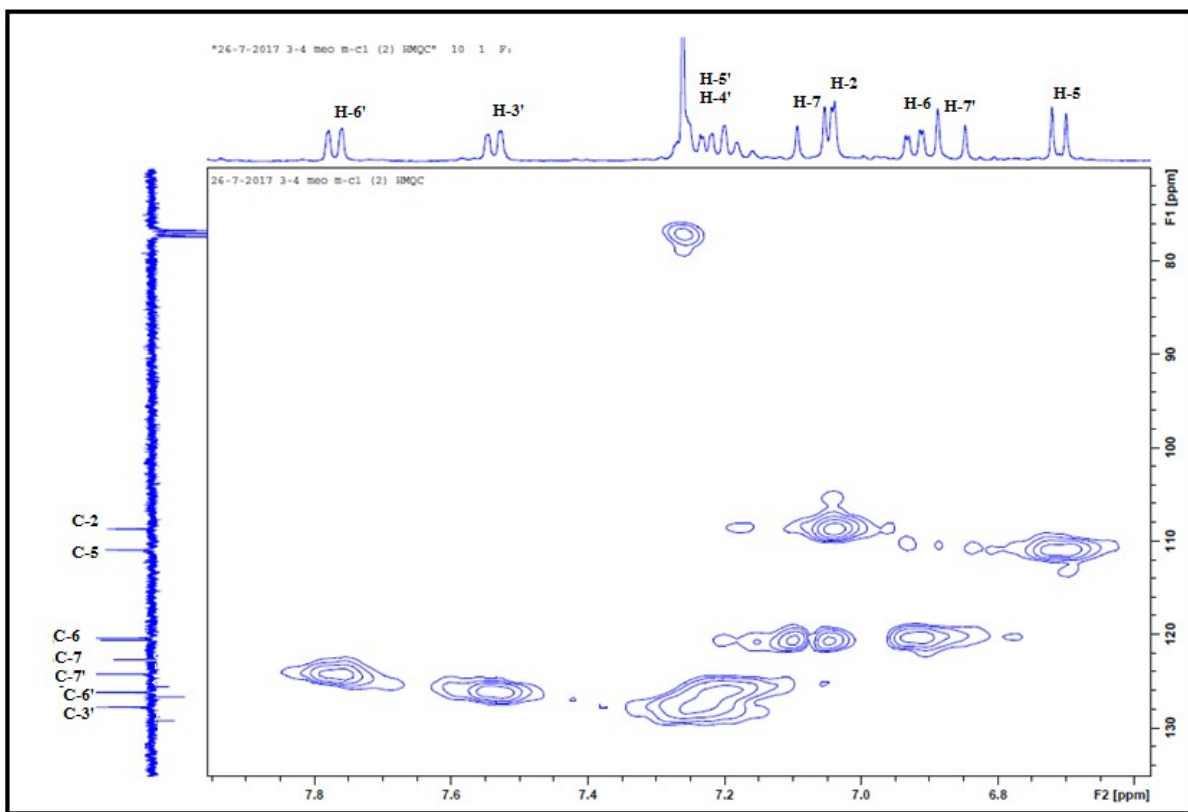
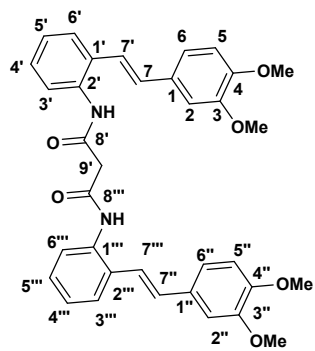
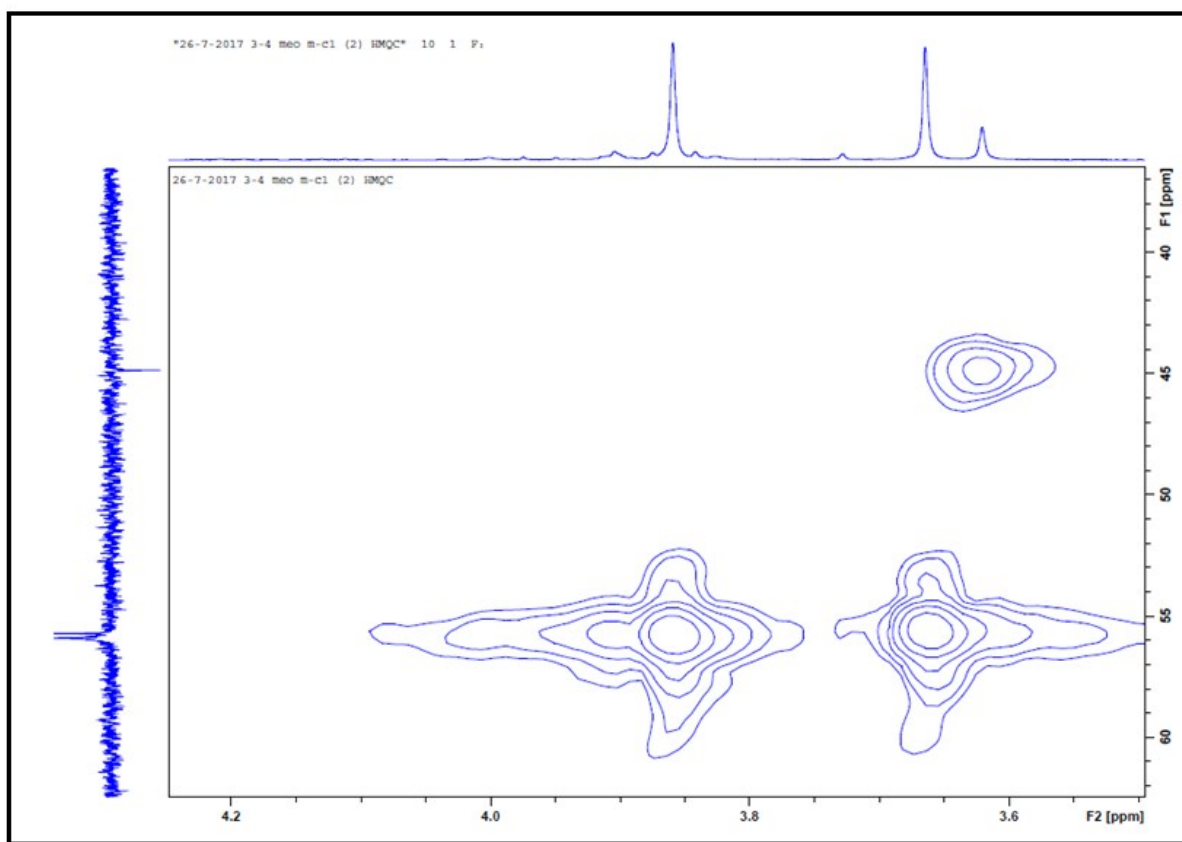


Figure S26: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E))-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).

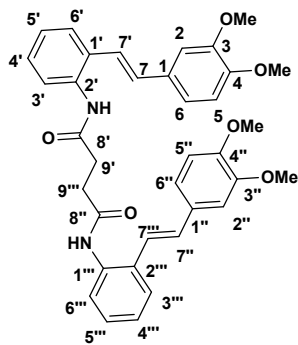
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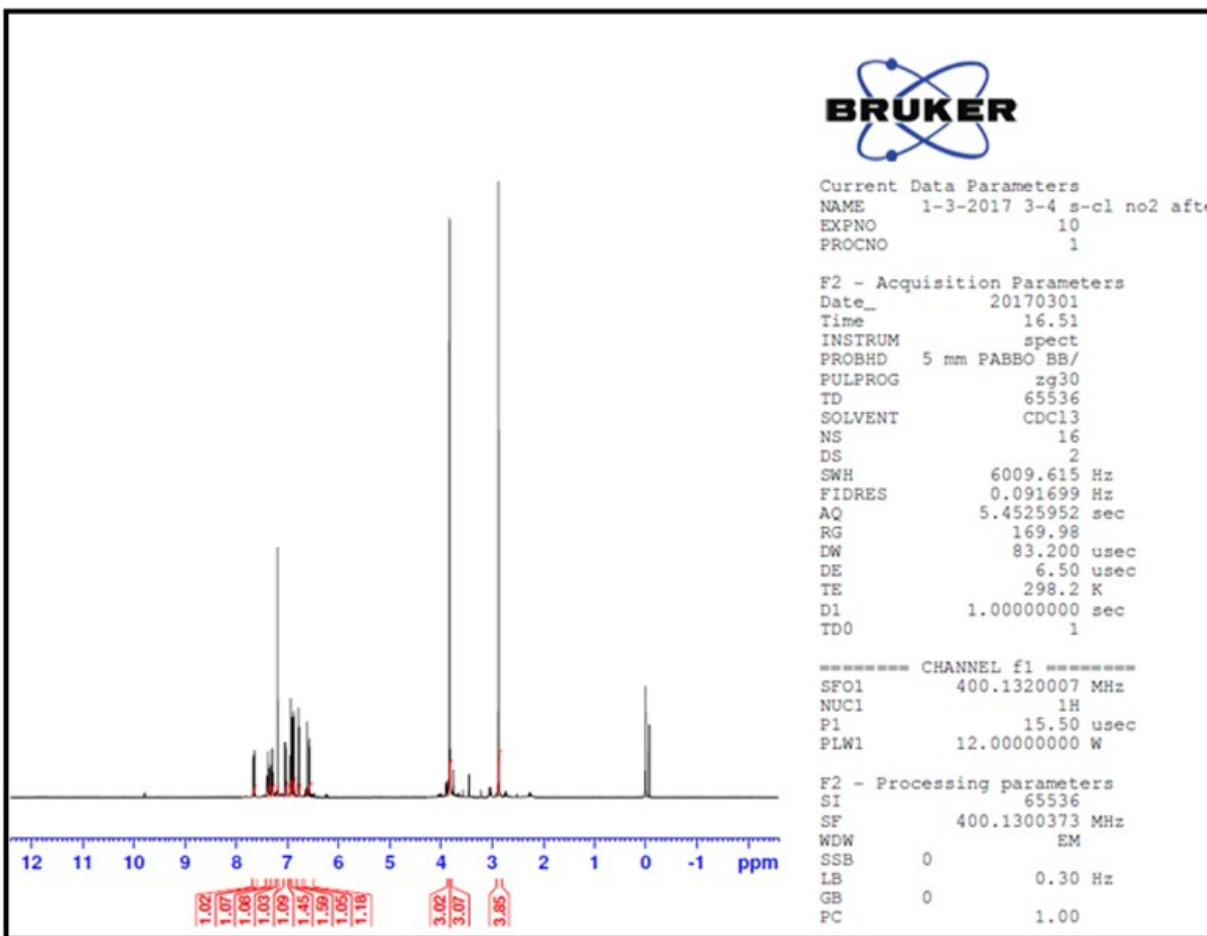
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Figure S27: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis (2-(E)-3,4-dimethoxystyryl)phenyl malonamide (EXPANSION).



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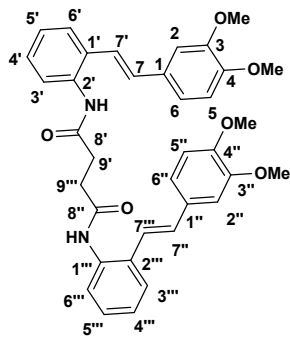
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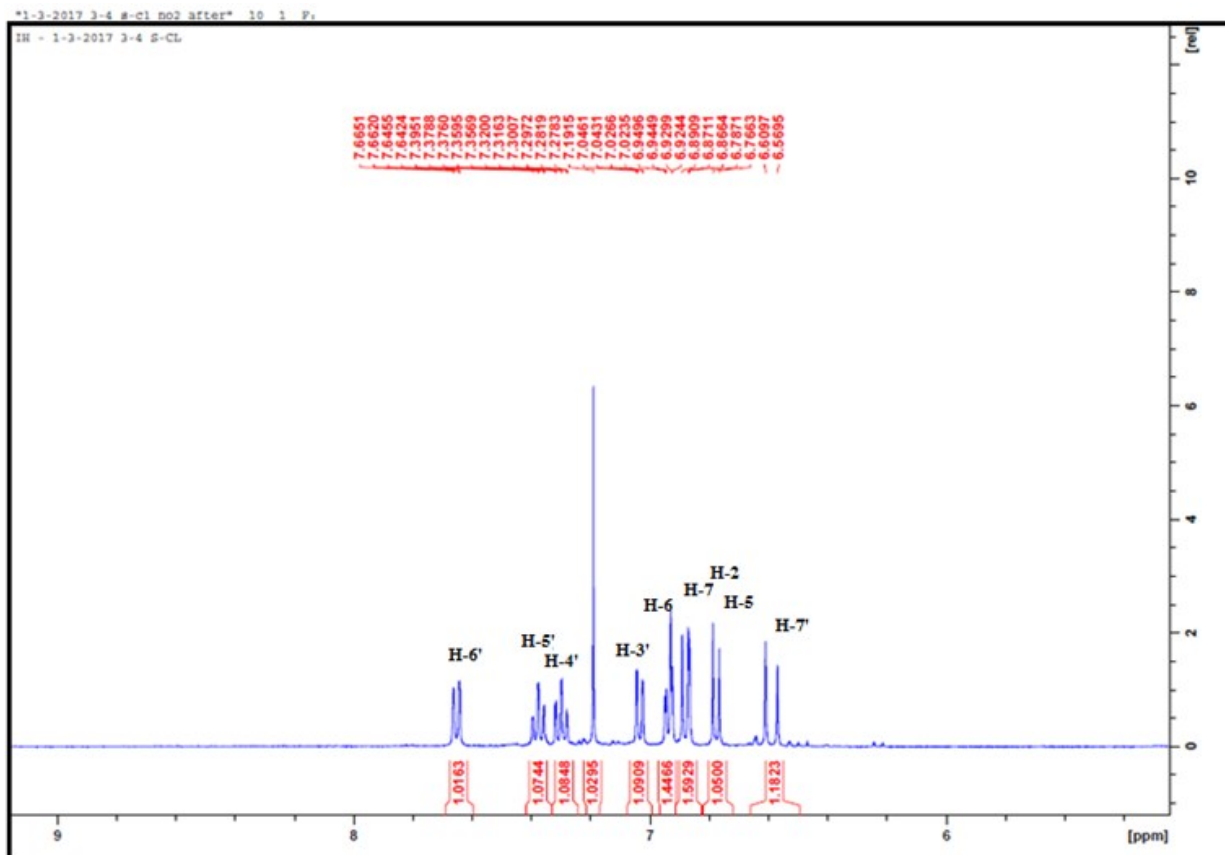
Figur28: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide).

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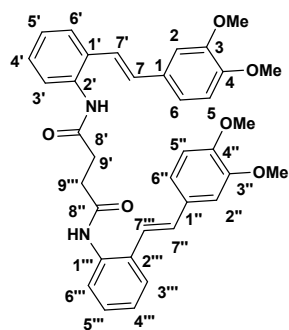
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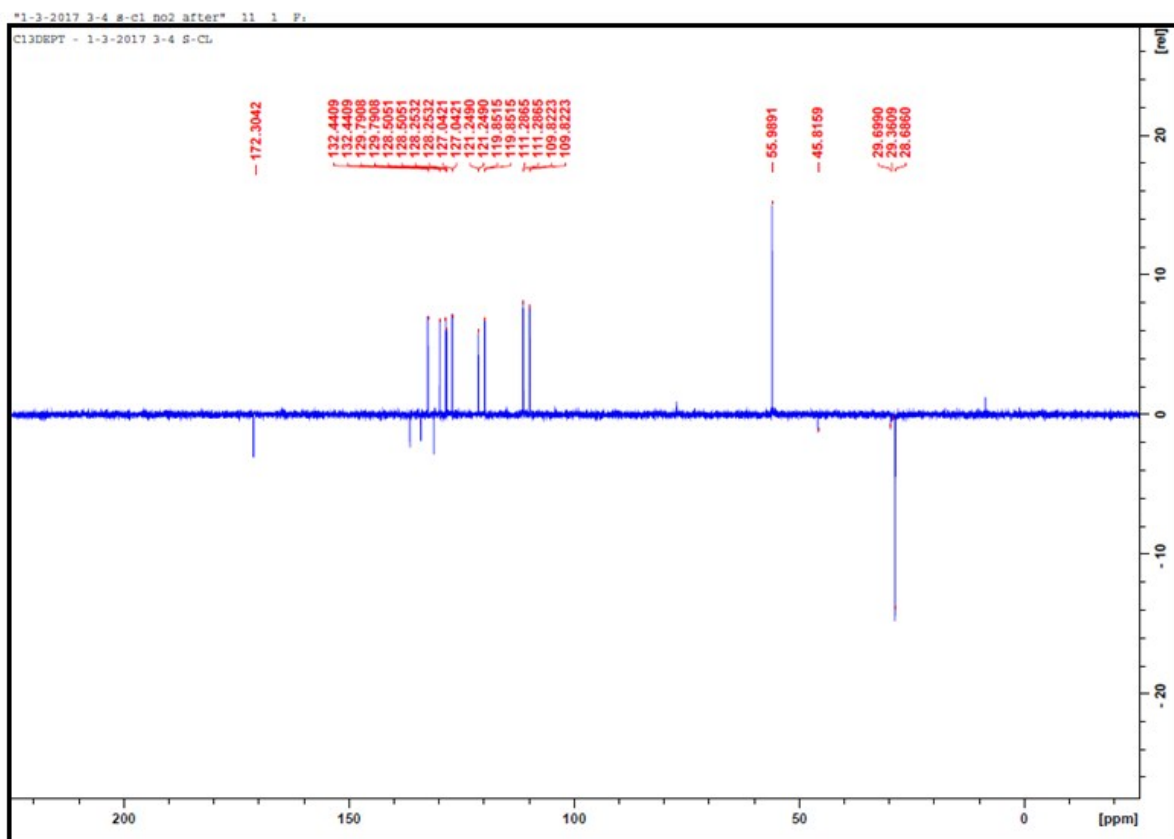
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Figure S29: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide) (EXPANSION).

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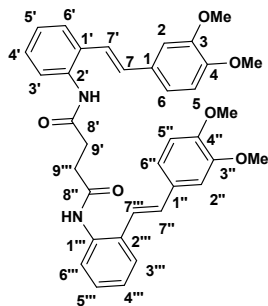
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Figure S30:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide).

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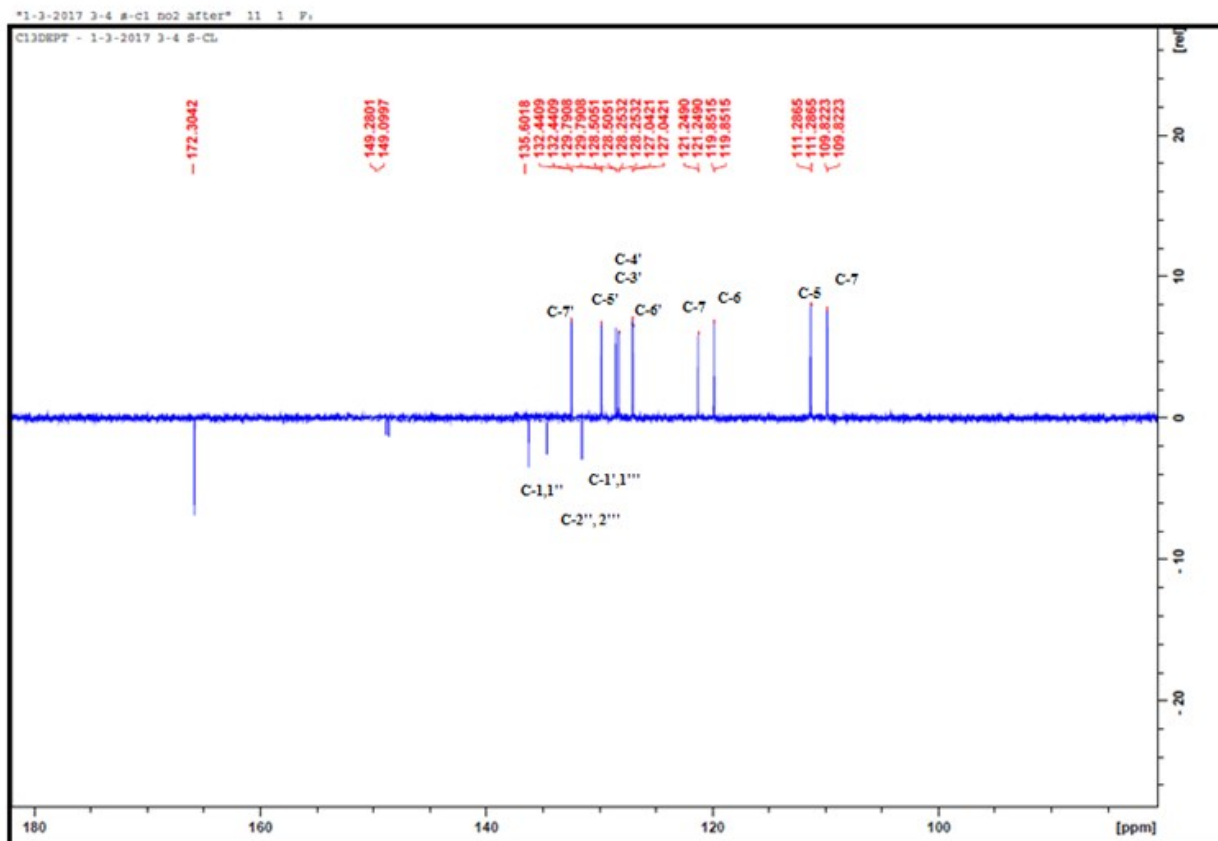
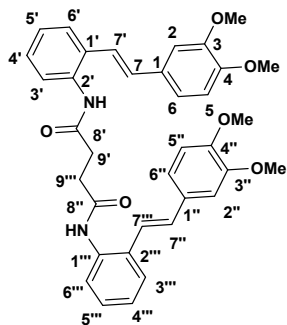


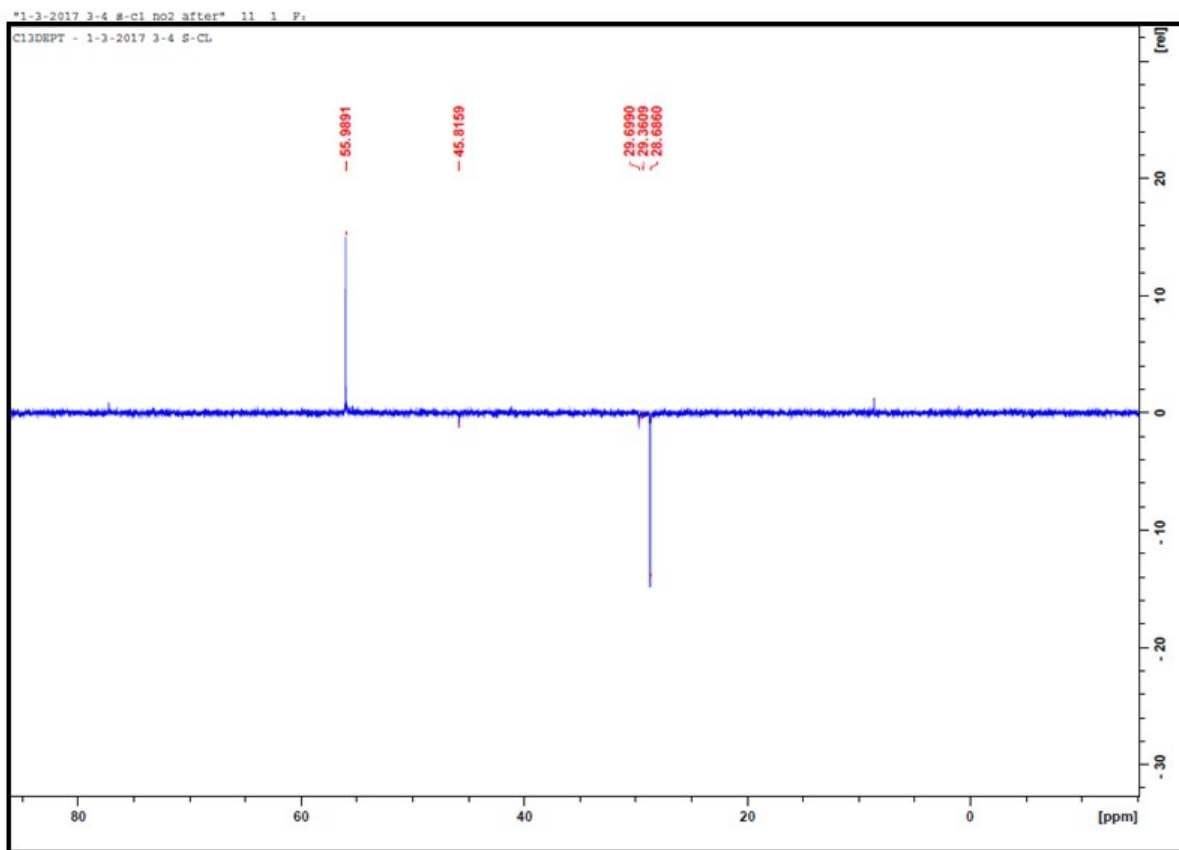
Figure S31:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide) (EXPANSION).

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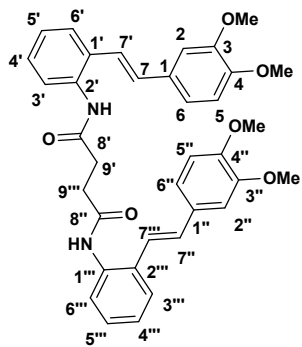
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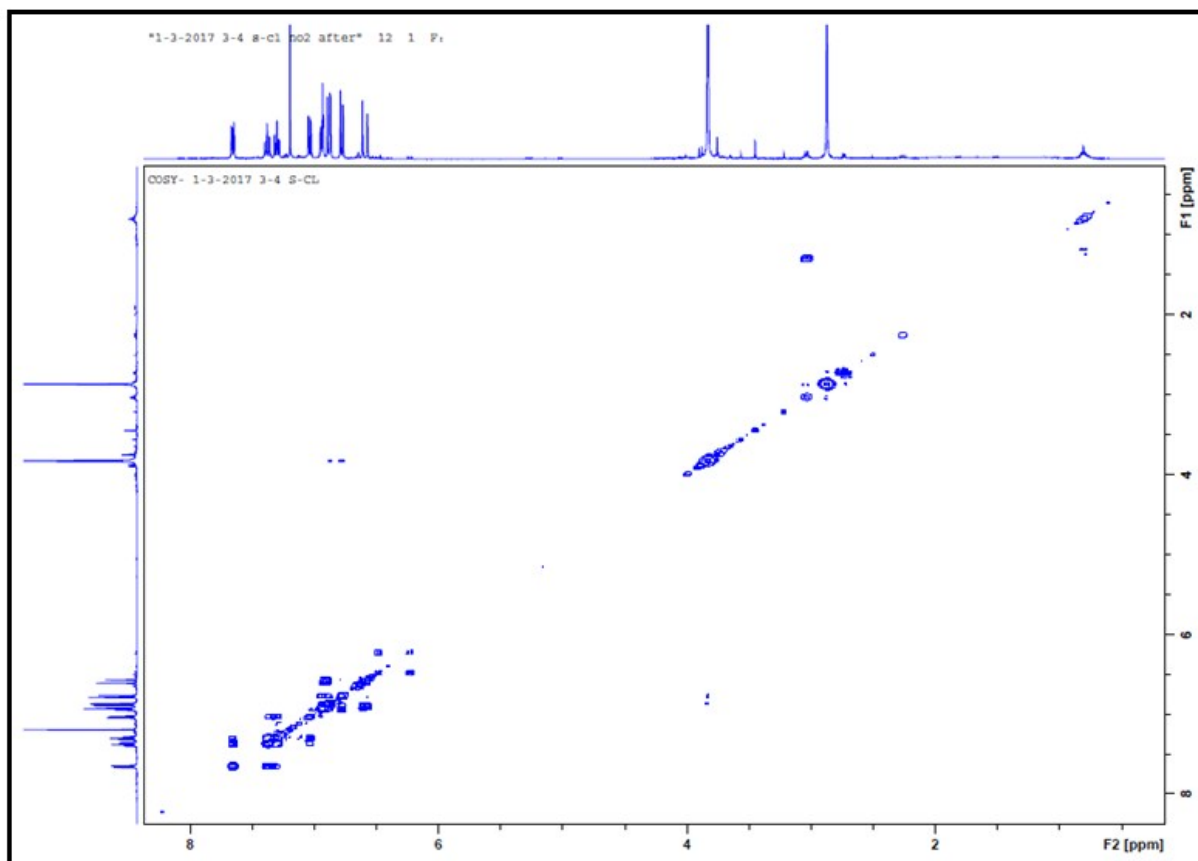
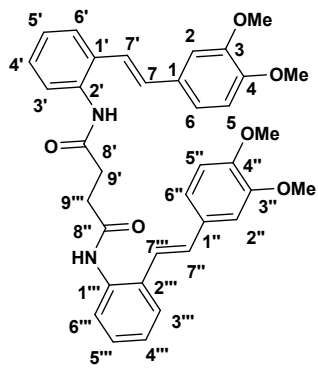


Figure S33: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide).

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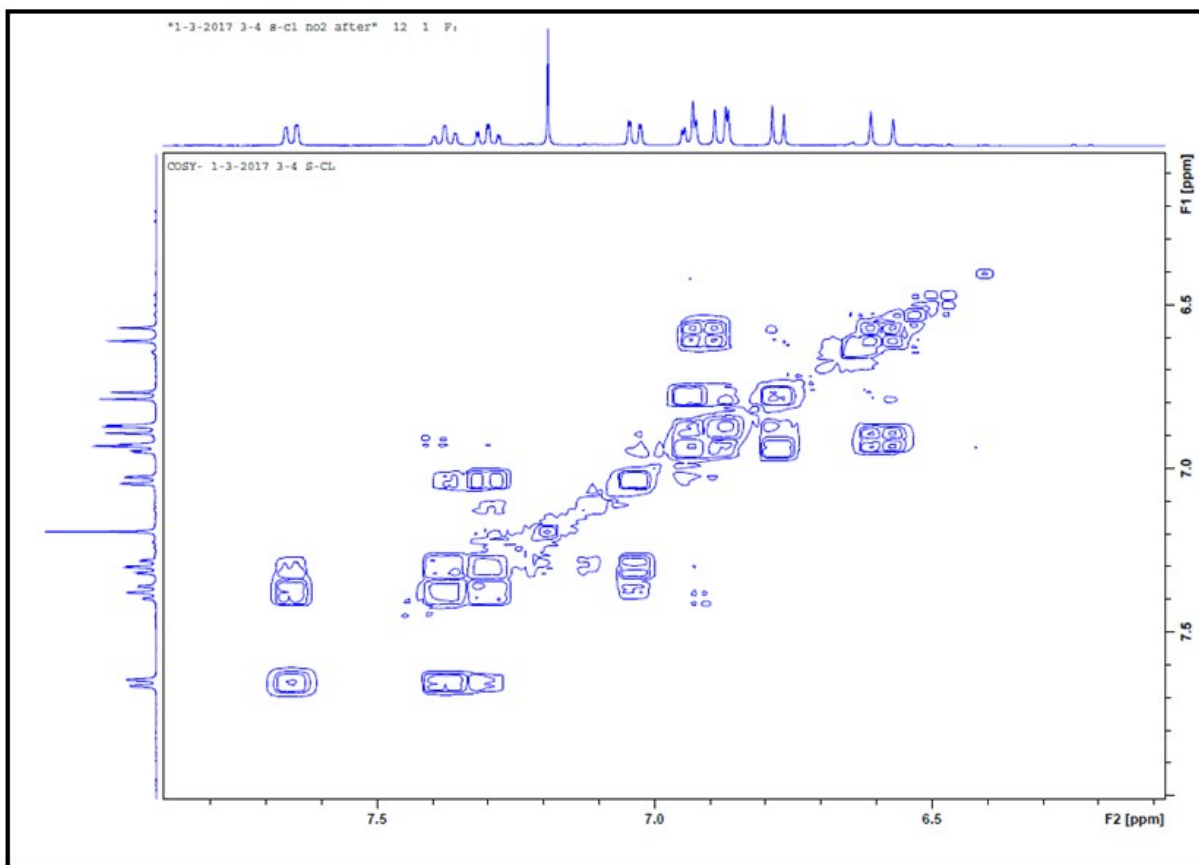
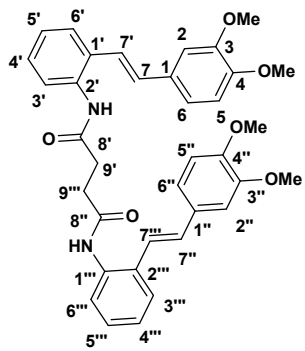


Figure S34:  $^1\text{H}$  COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide (EXPANSION).

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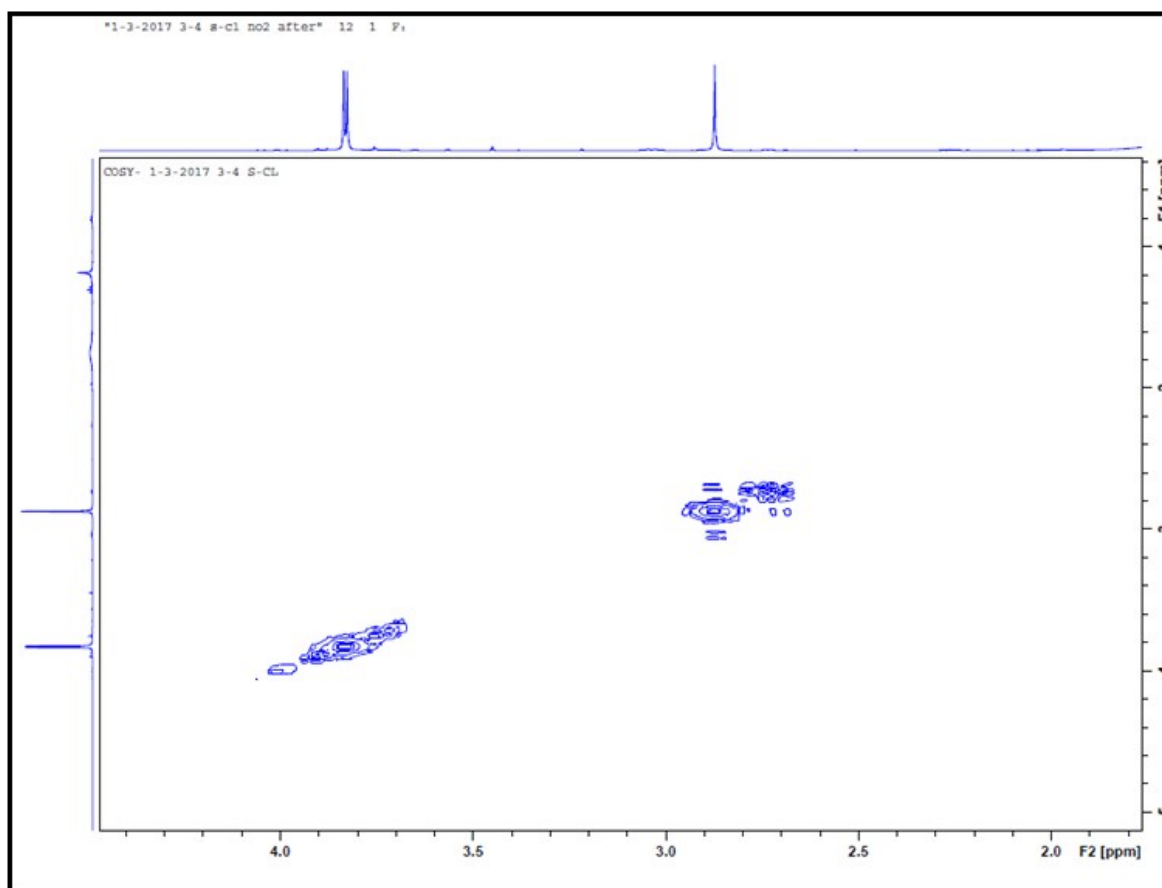
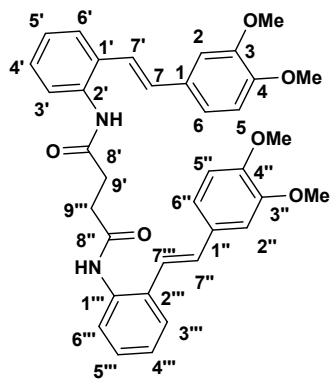
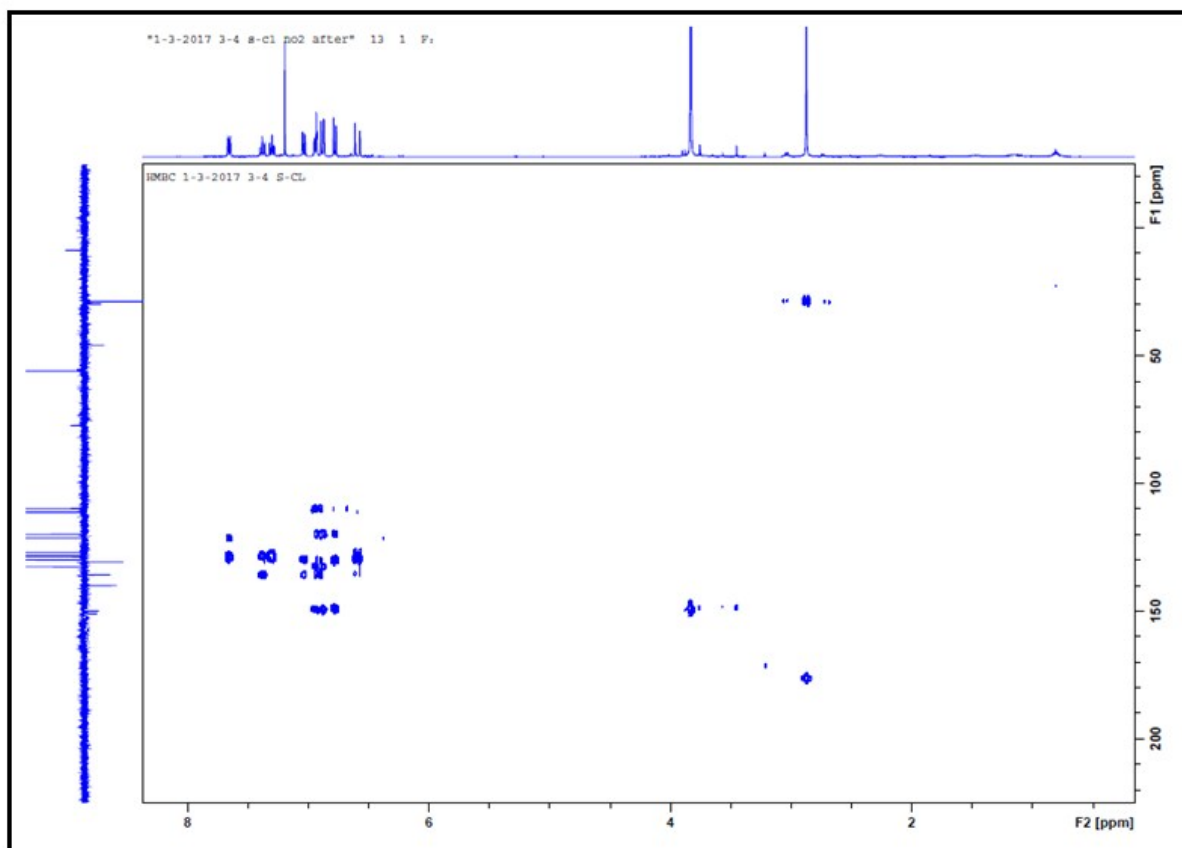


Figure S35: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide (EXPANSION).

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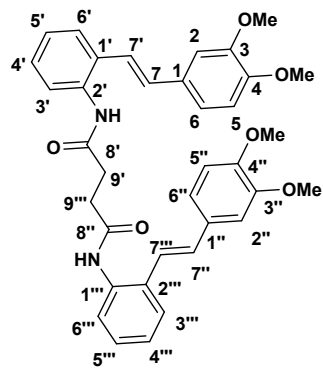
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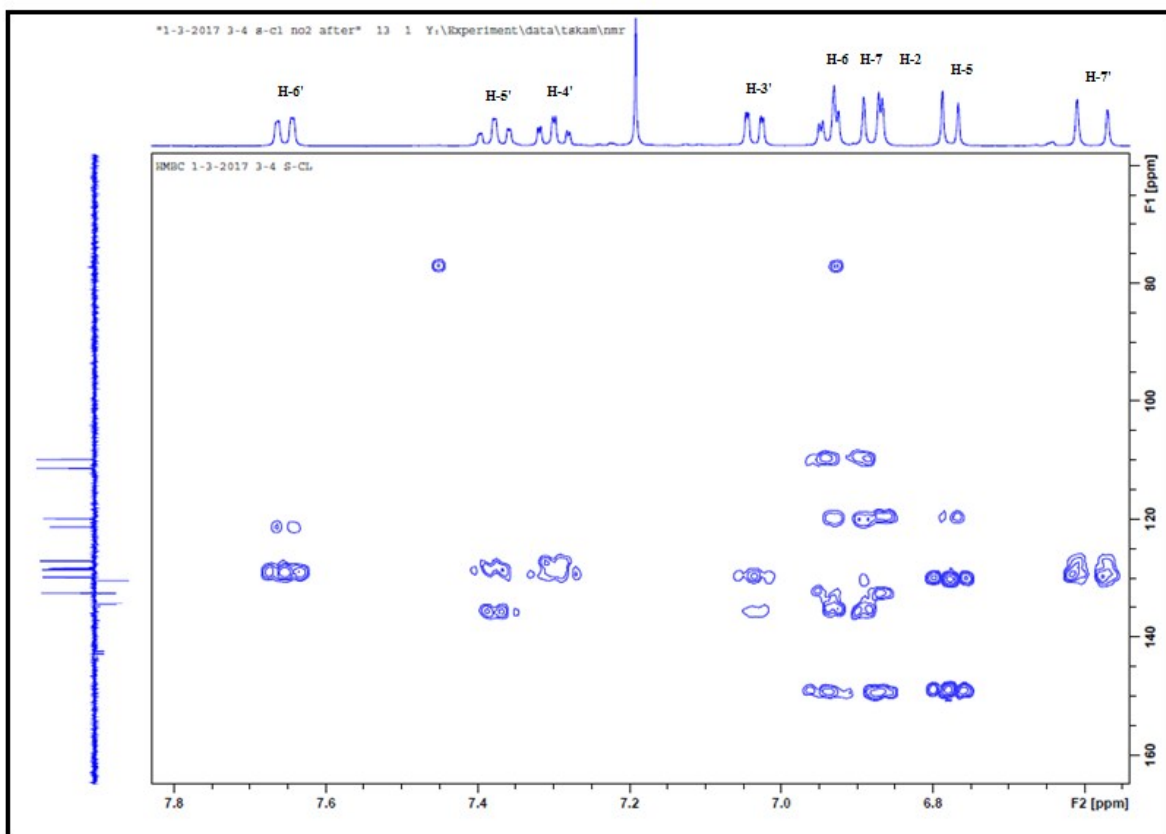
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Figure S36: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide).



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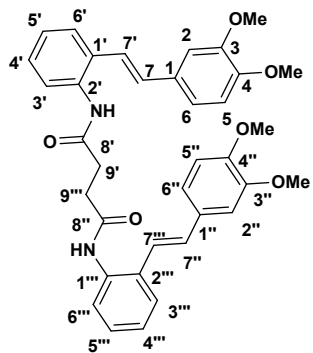
Figure S37: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide (EXPANSION).

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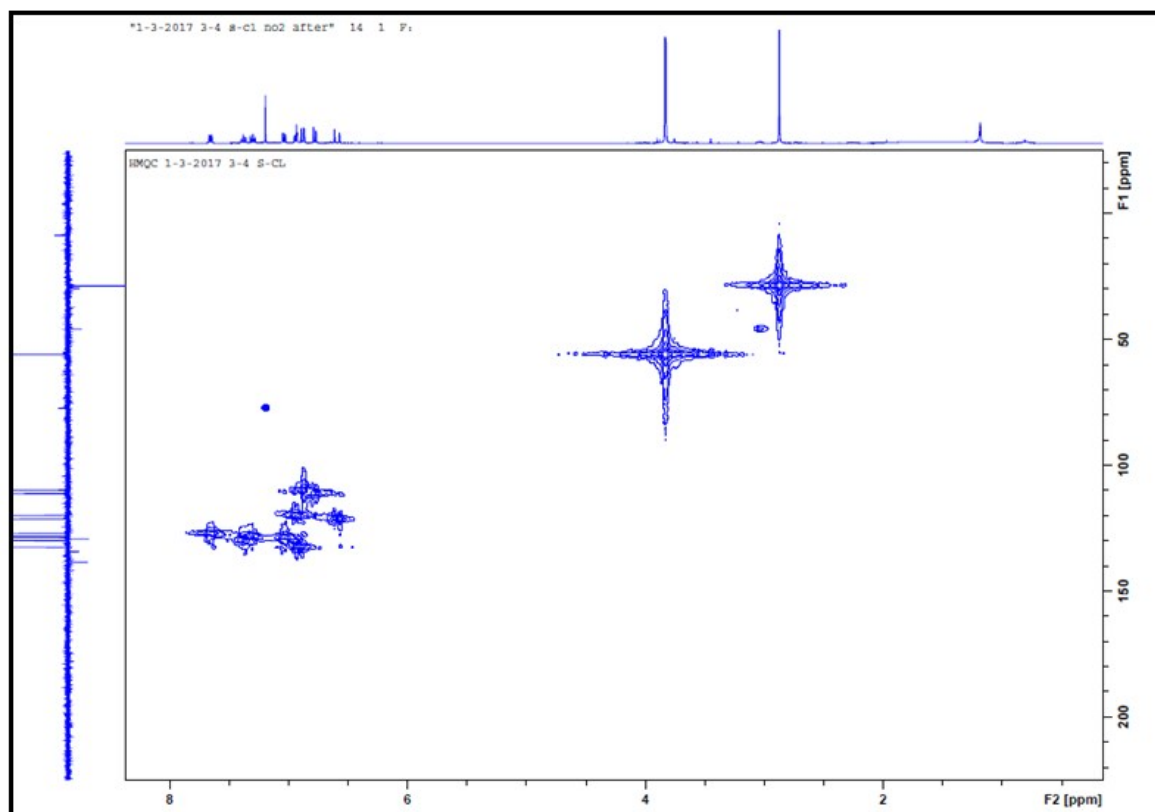
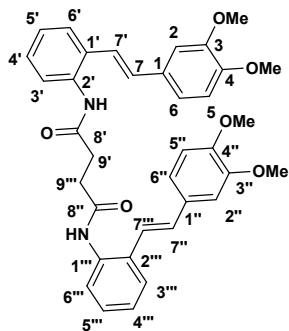


Figure S38:  $^{13}\text{C}$  HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide).

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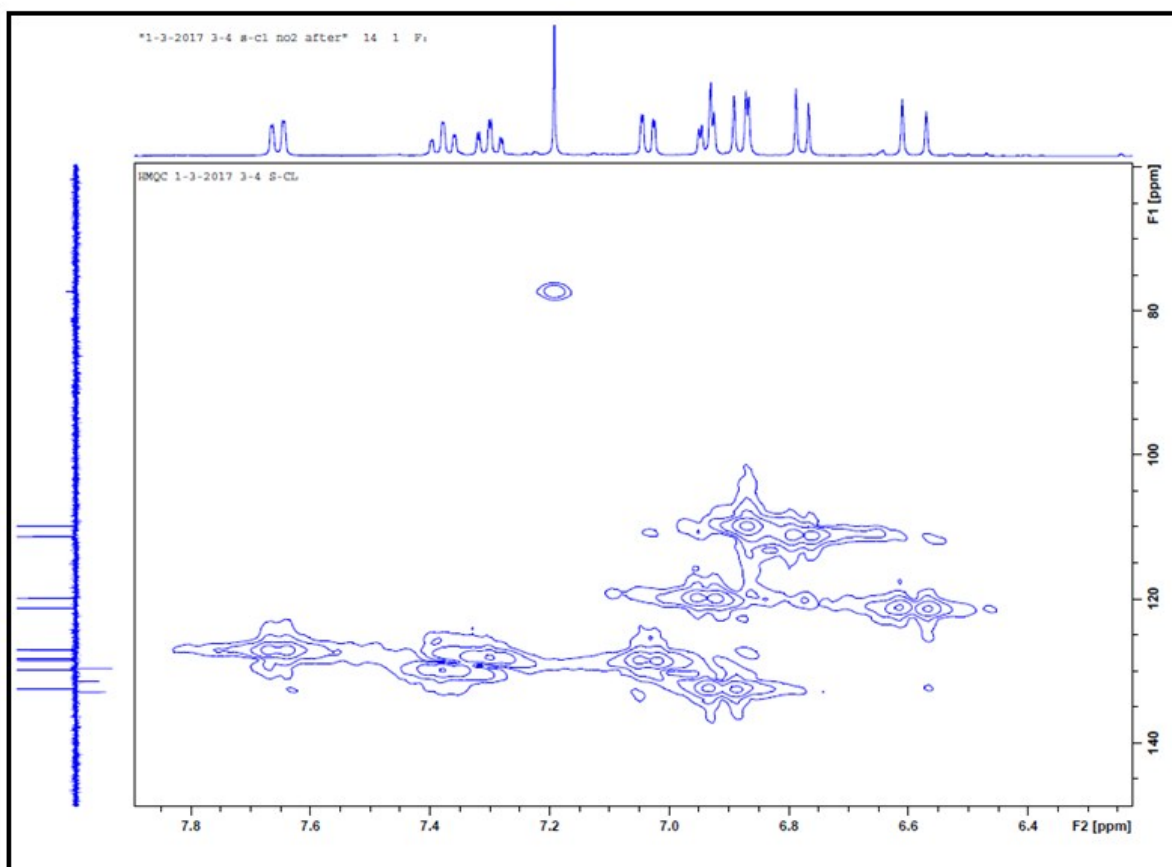


Figure S39: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide) (EXPANSION).

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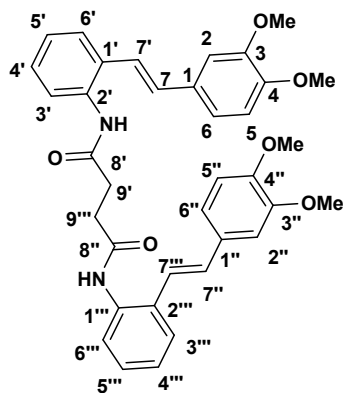
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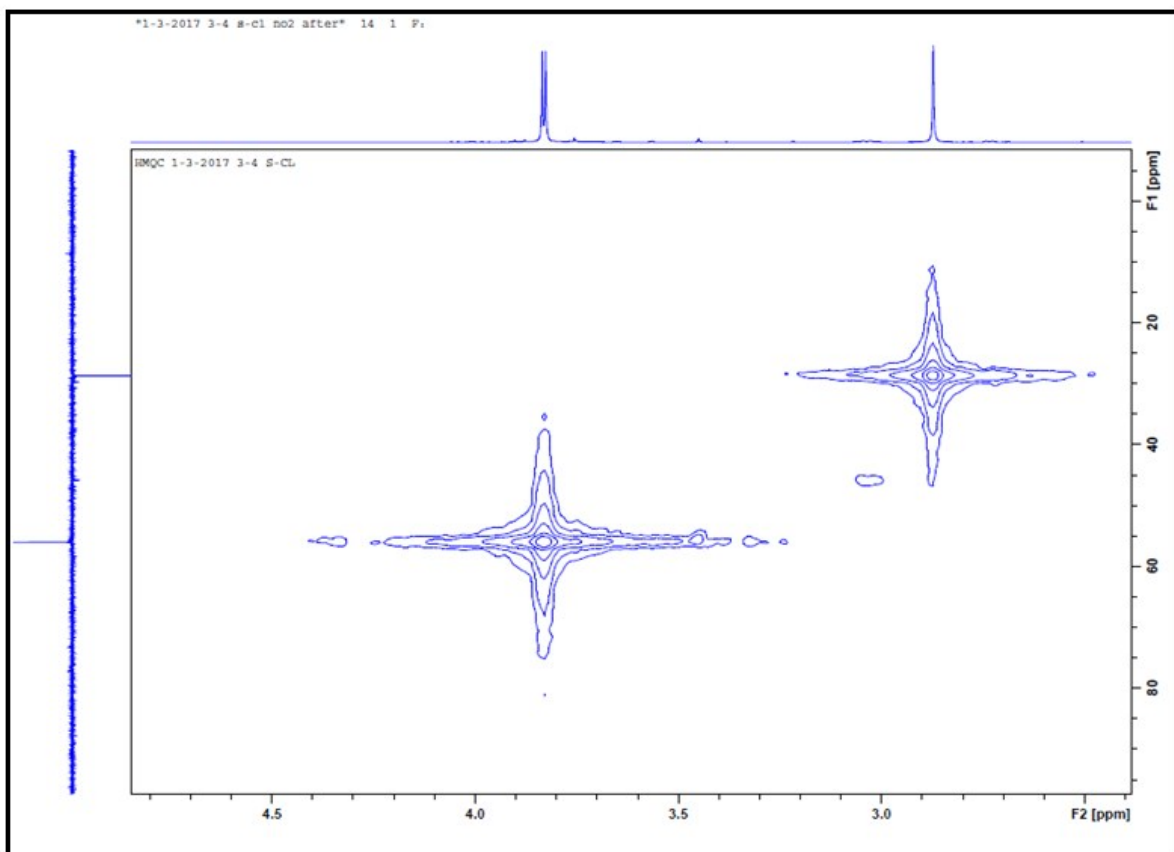
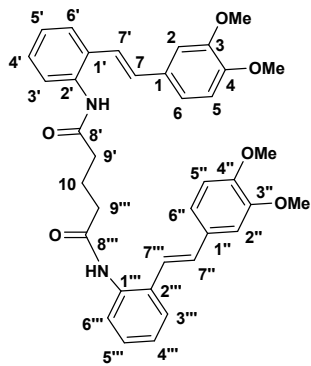
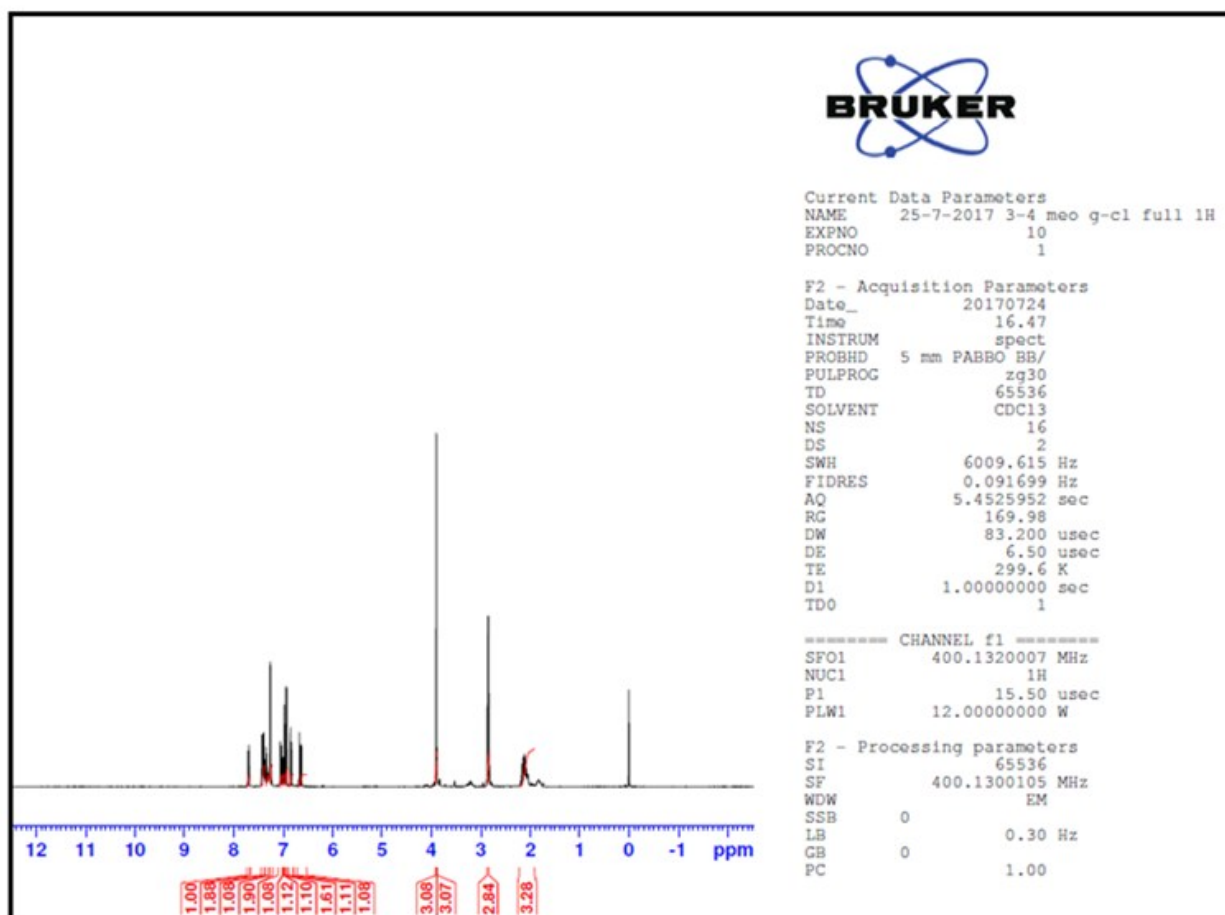


Figure S40: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide (EXPANSION).

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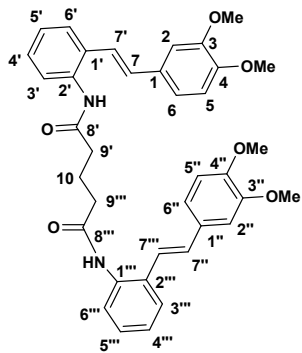
Figure S41: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide).

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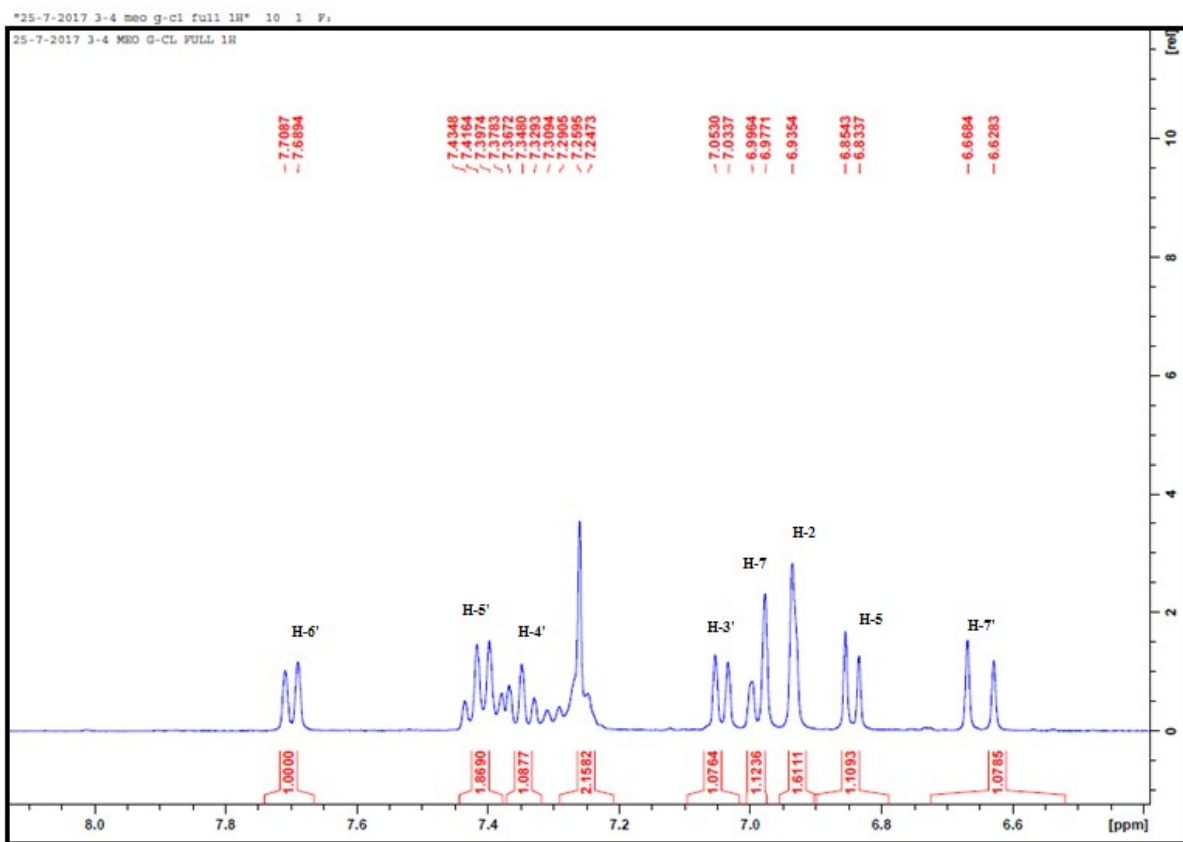
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Figure S42: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide (EXPANSION).

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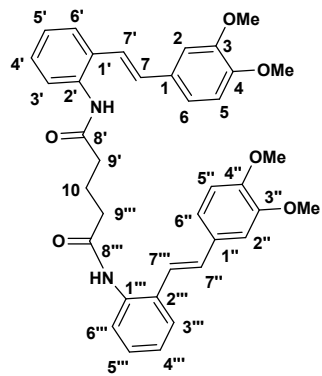
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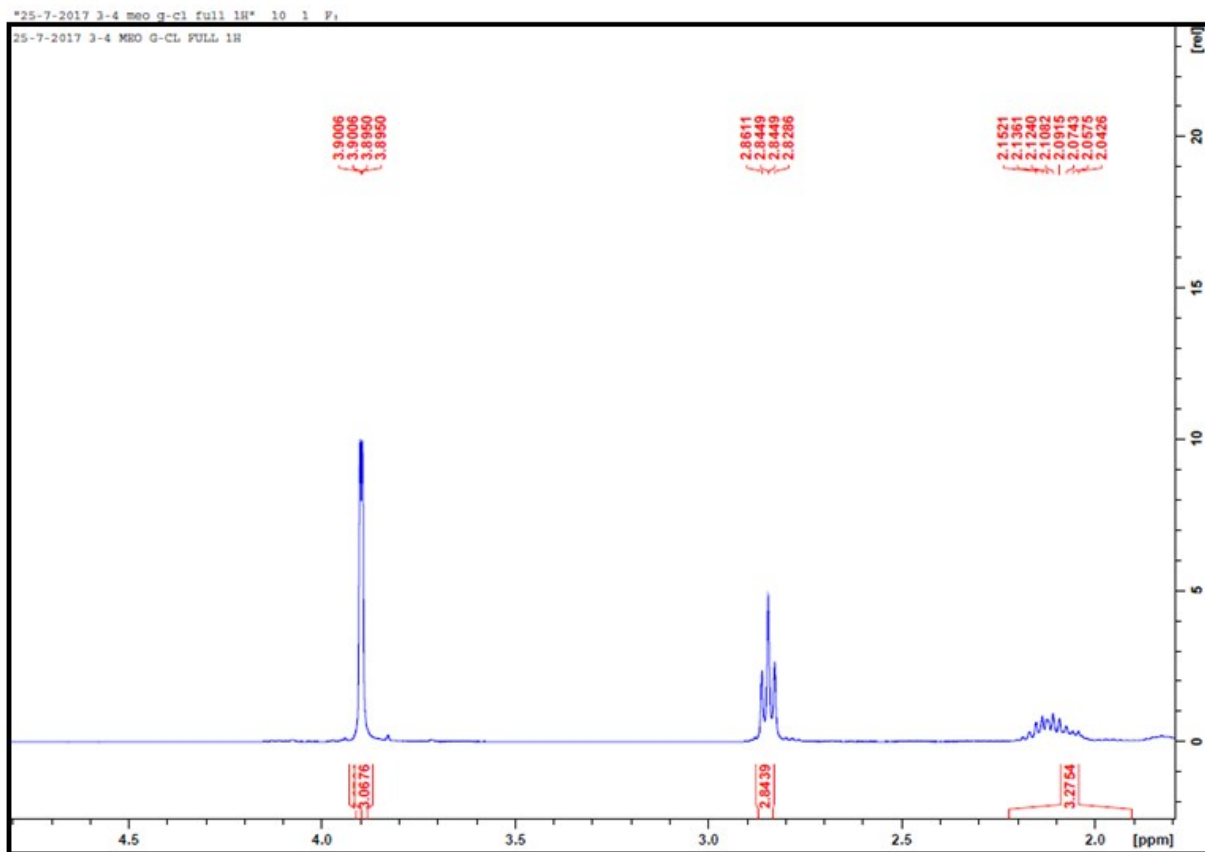
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Figure S43:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide (EXPANSION).

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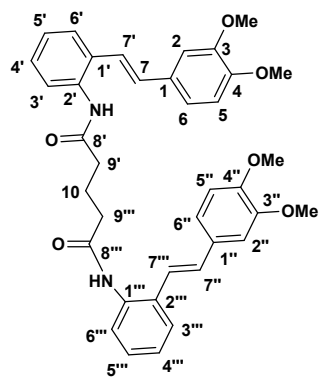
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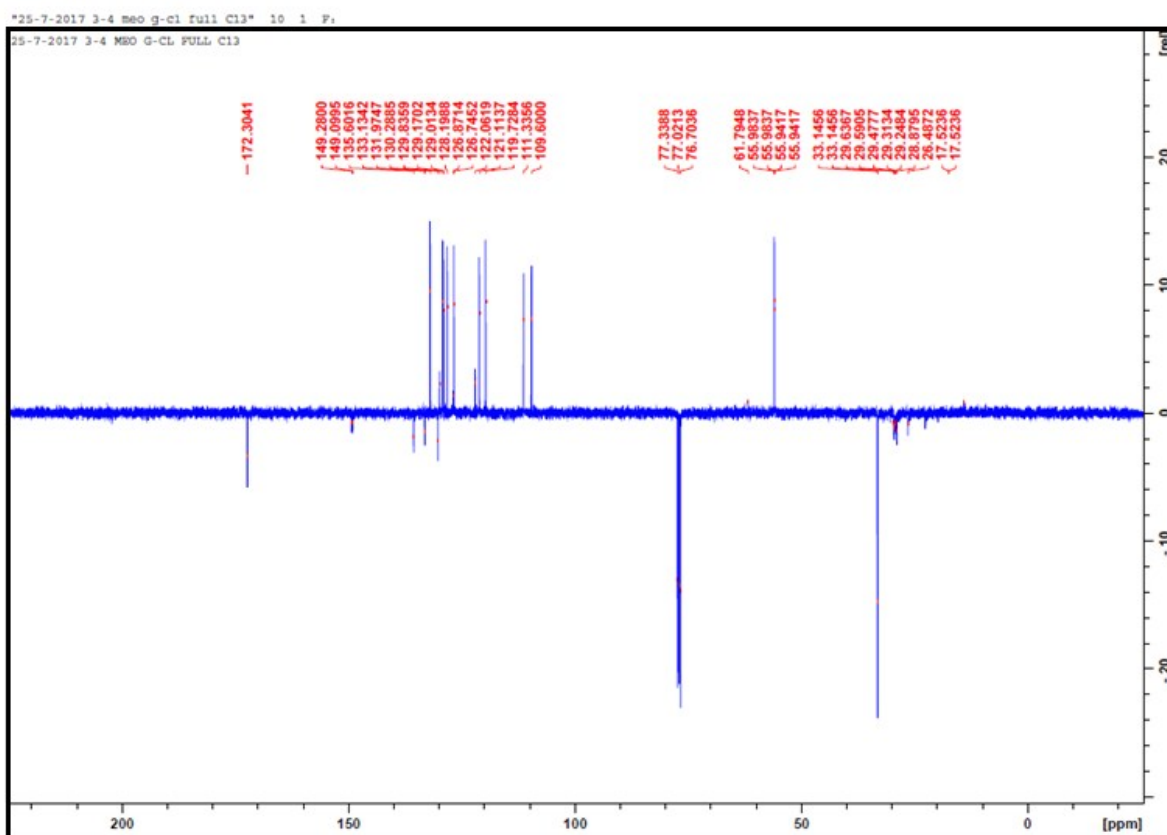
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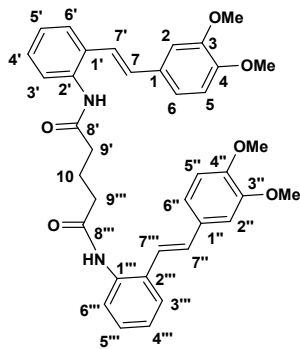
Figure S44:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxyphenyl)vinyl)phenyl) glutaramide.

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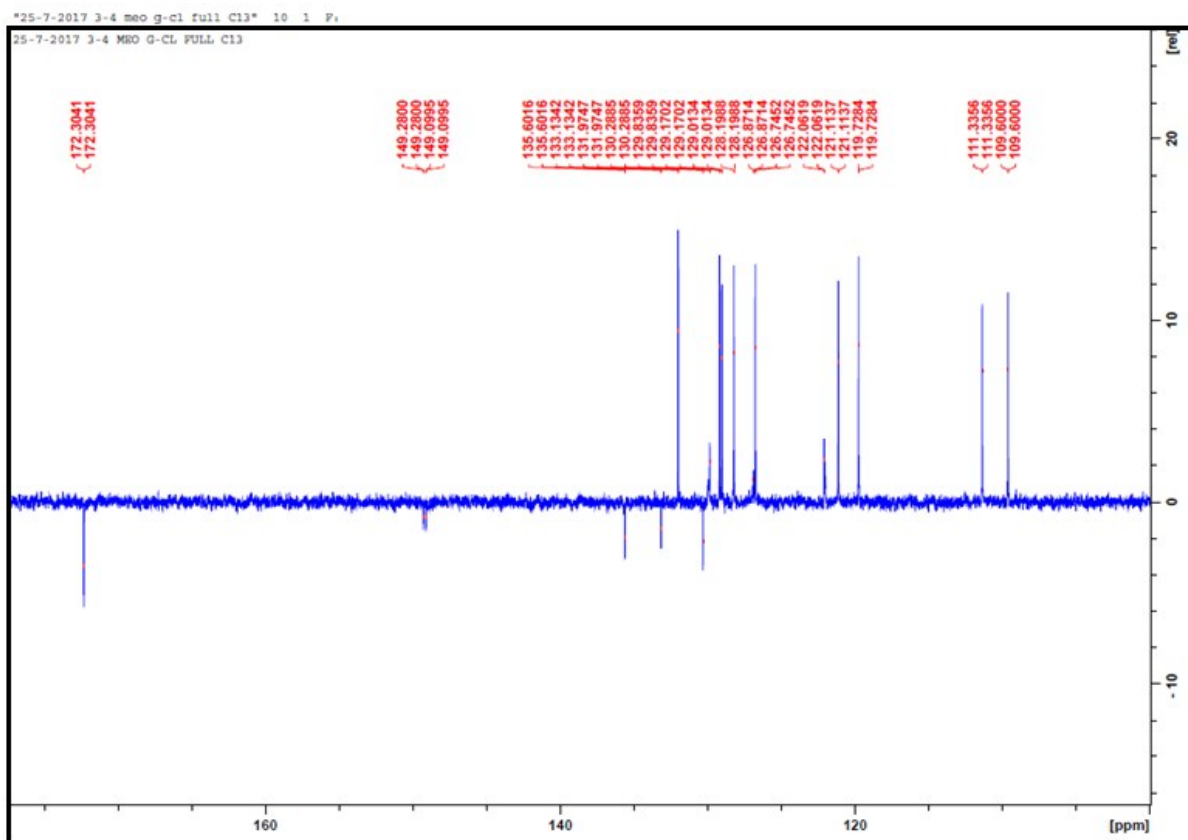
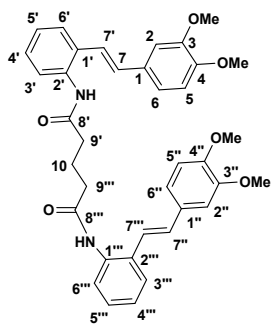


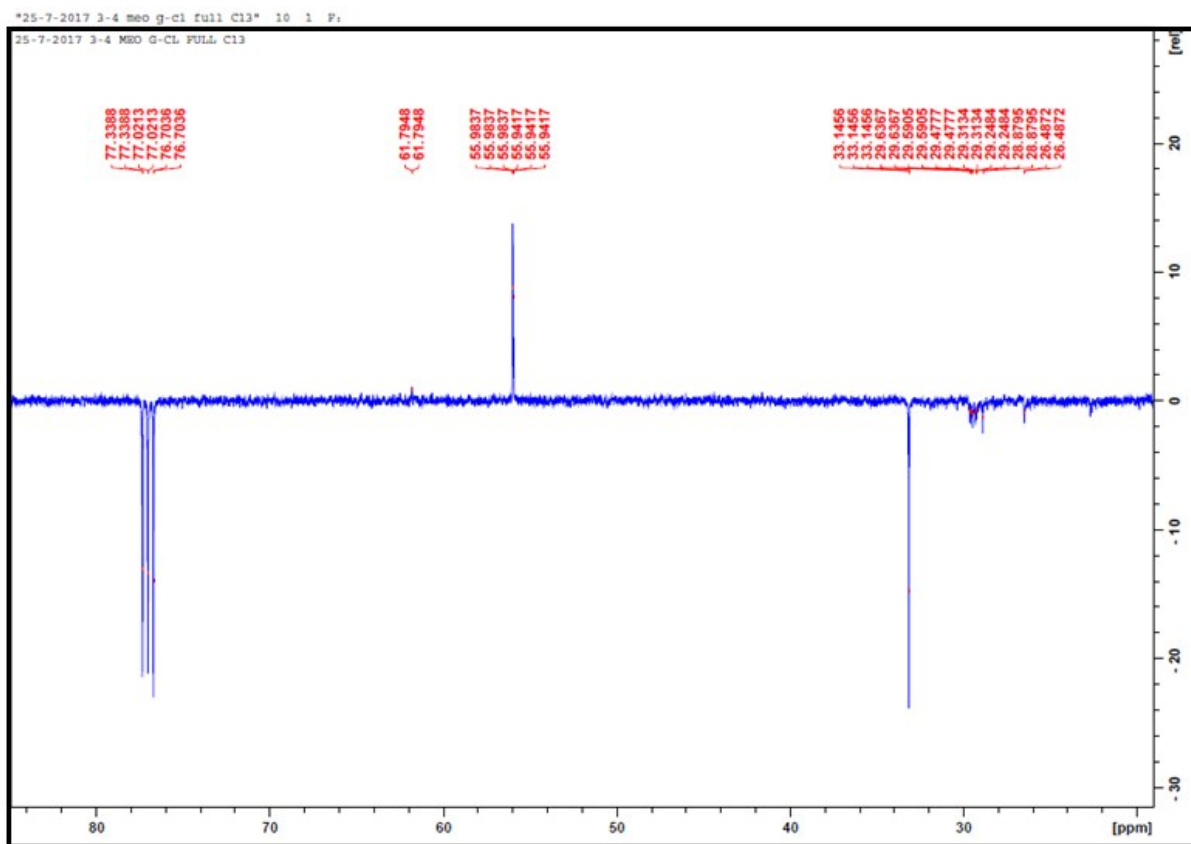
Figure S45:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)glutaramide) (EXPANSION).

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Figure S46:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide (EXPANSION).

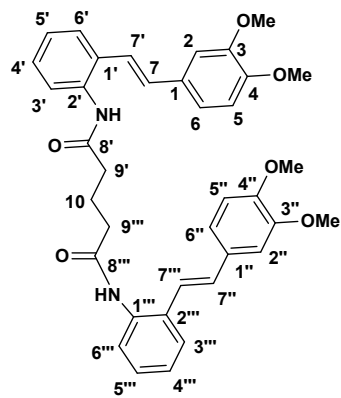
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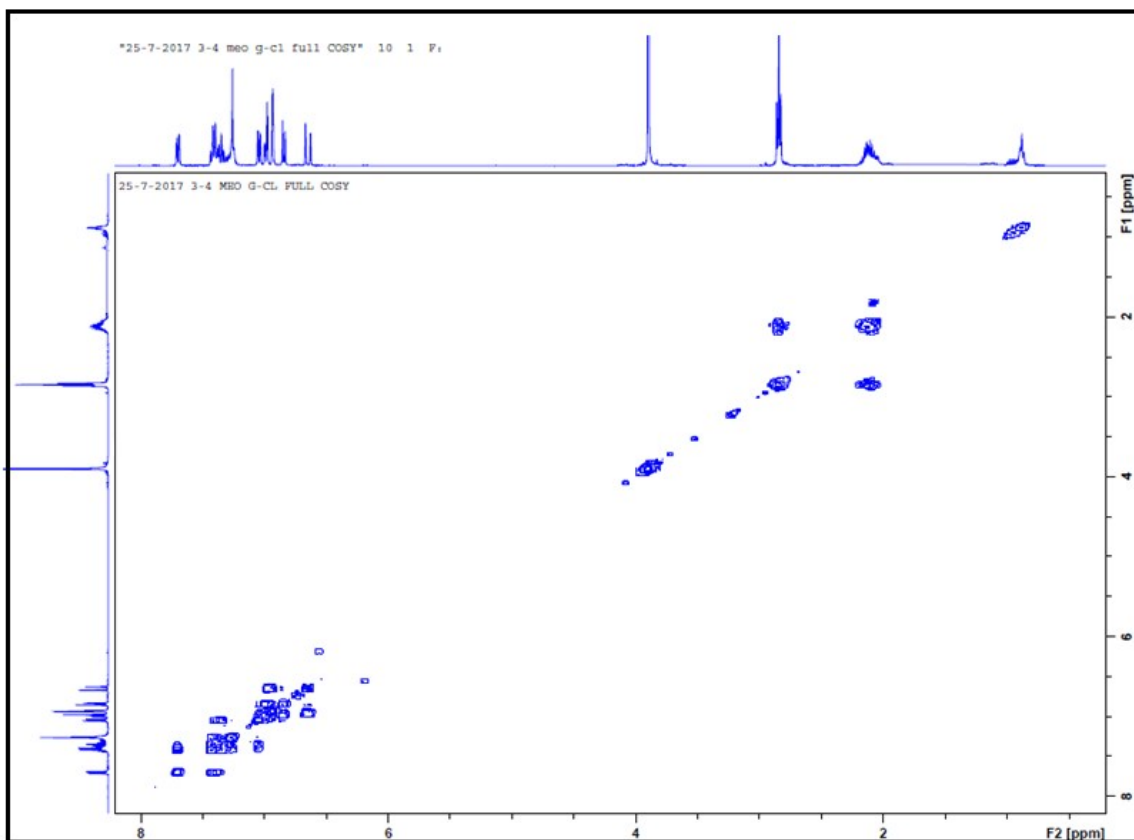
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Figure S47: C COSY GPSW <sup>1</sup>H(CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide.

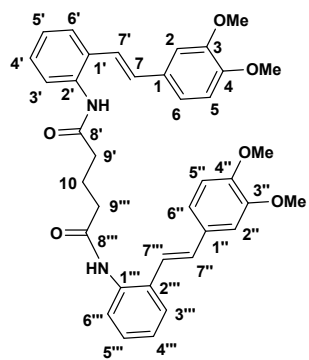
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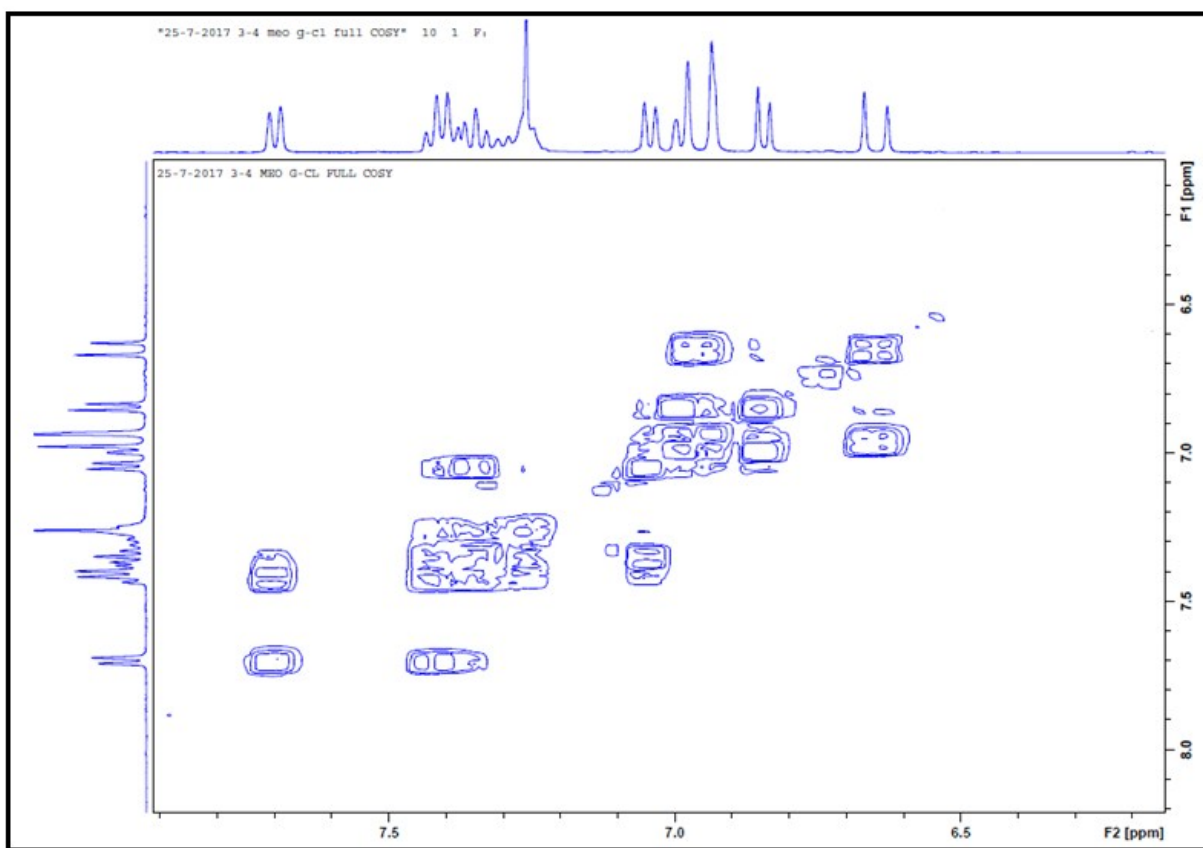
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Figure S48: <sup>1</sup>H COSY GPSW {<sup>1</sup>H}(CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)glutaramide) (EXPANSION).

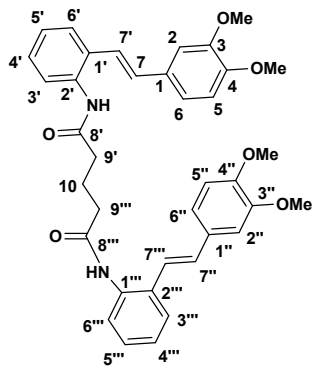
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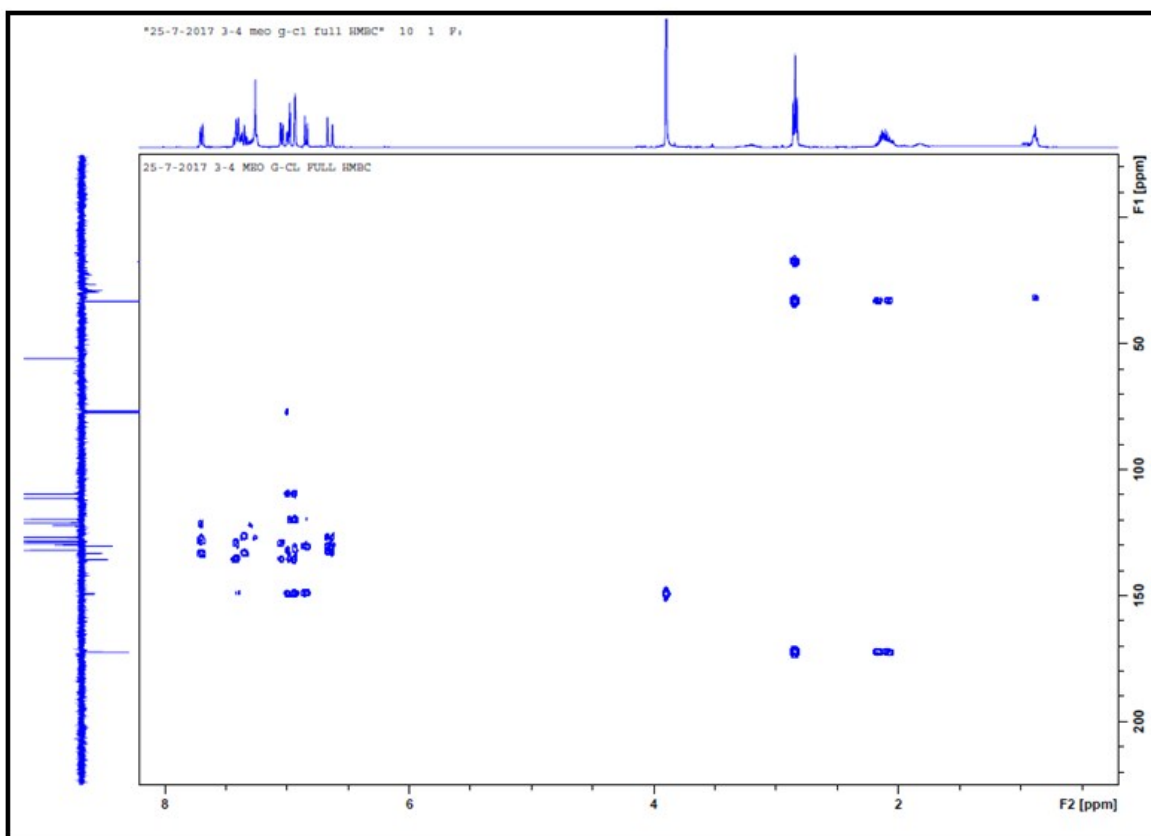
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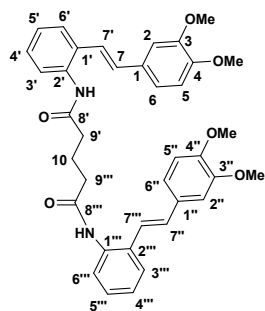
Figure S49: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide.

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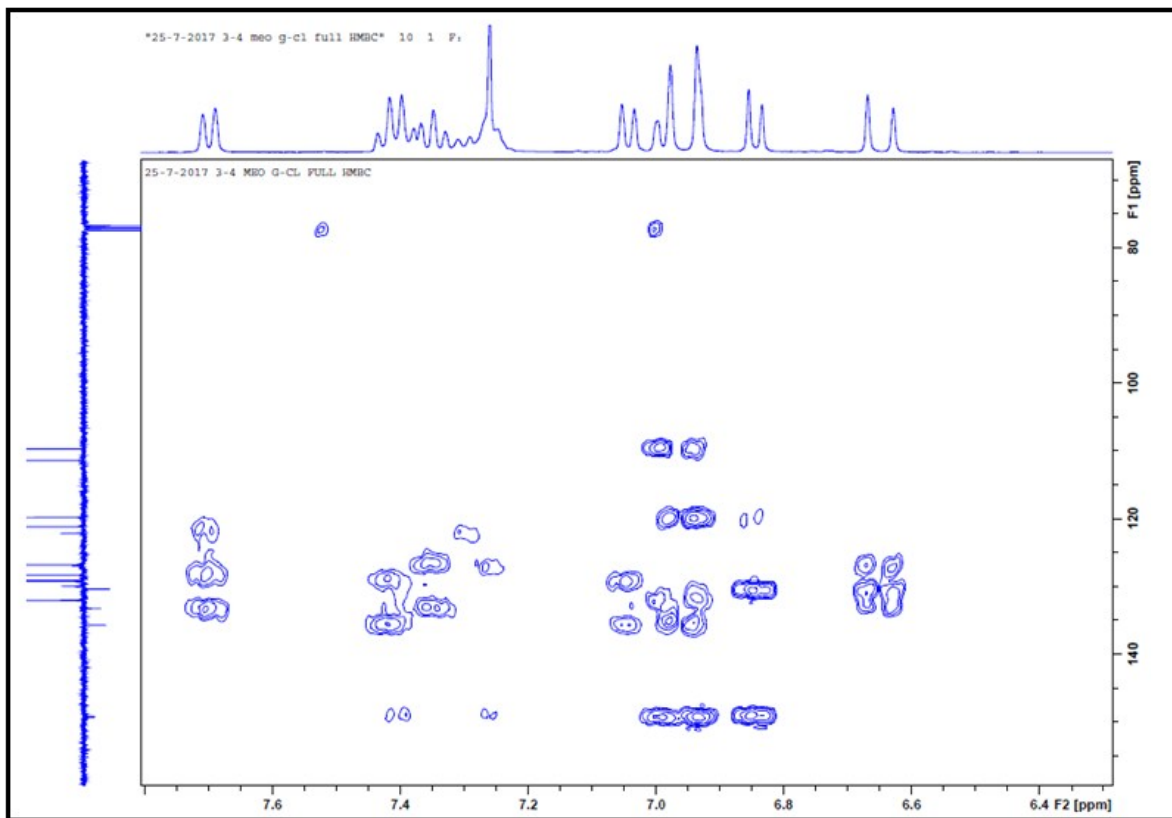
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3 **Figure S50: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)**  
 4 **glutaramide (EXPANSION).**

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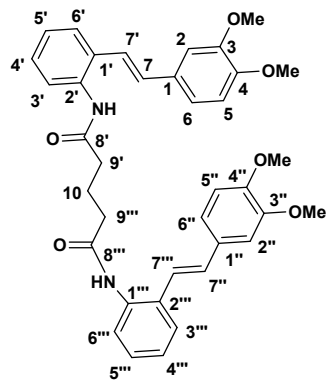
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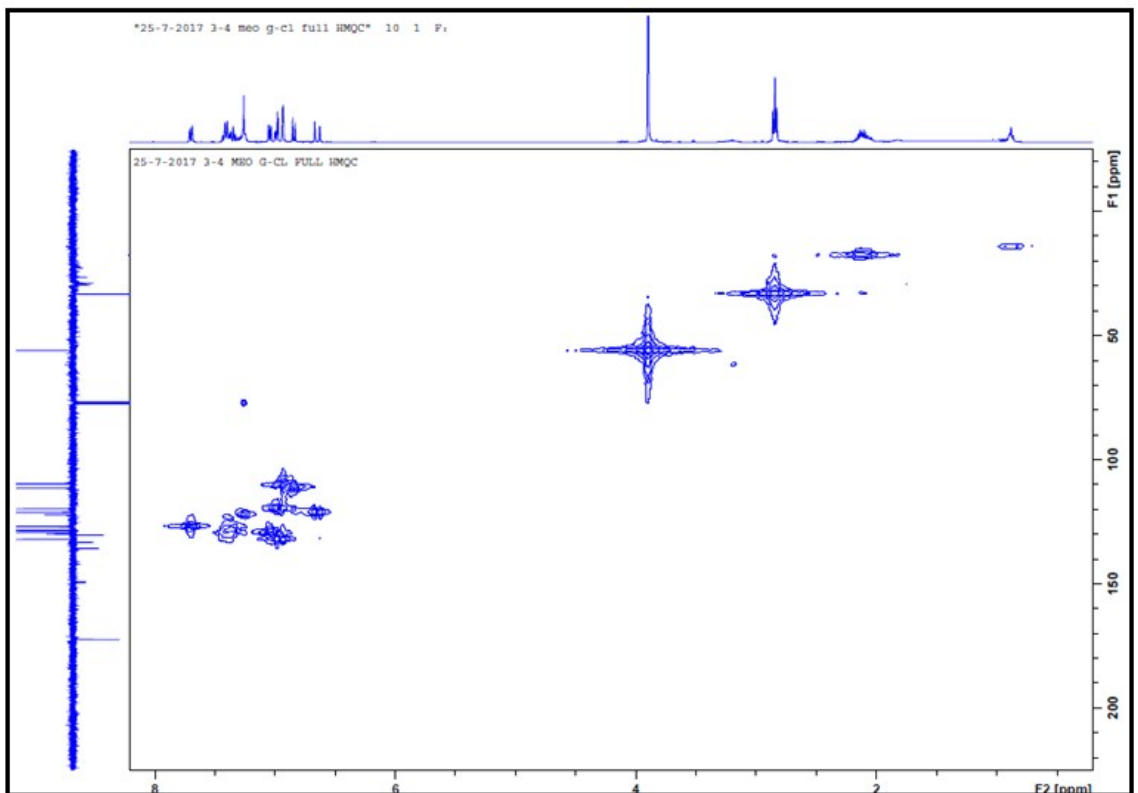
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Figure S51:  $^1\text{H}$ - $^{13}\text{C}$  HMQC NMR spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)glutaramide.

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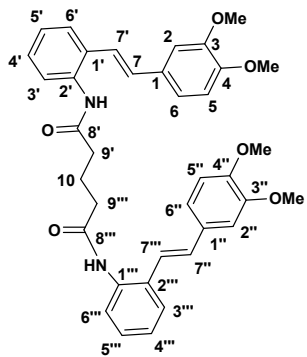
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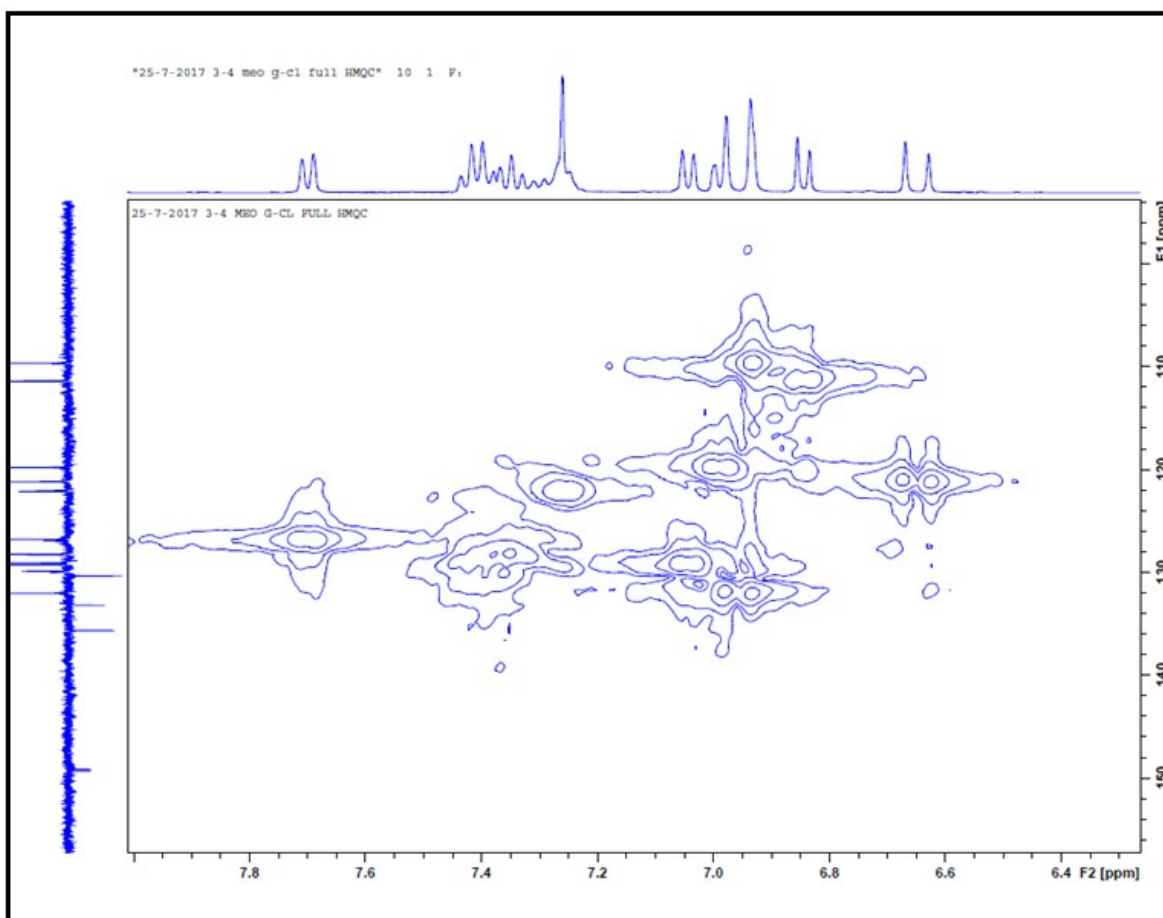


Figure S52:  $^1\text{H}$ - $^{13}\text{C}$  HMQC GP  $\{^1\text{H}$ - $^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)glutaramide (EXPANSION).

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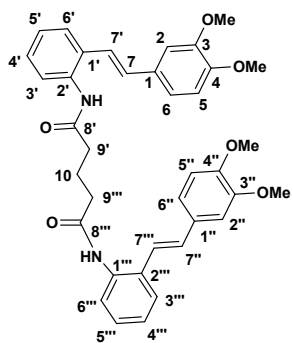
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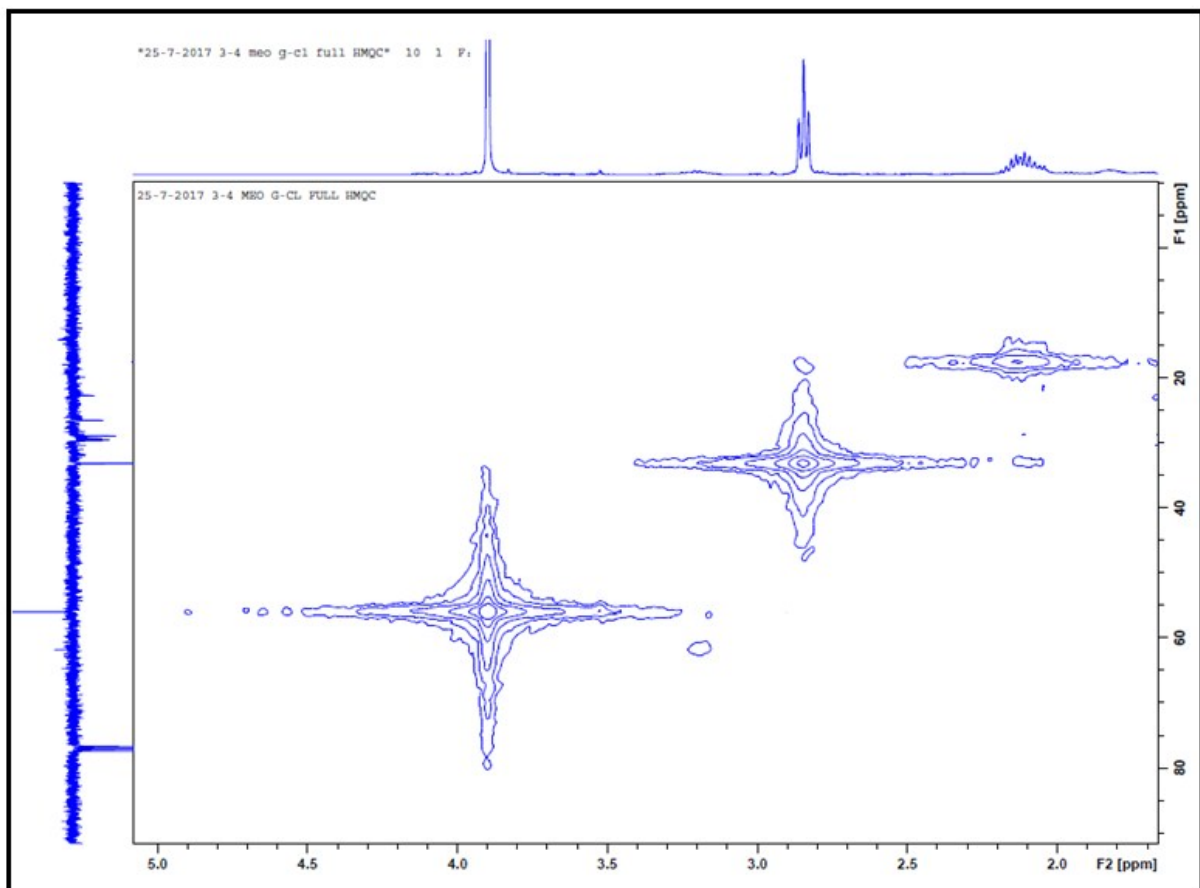
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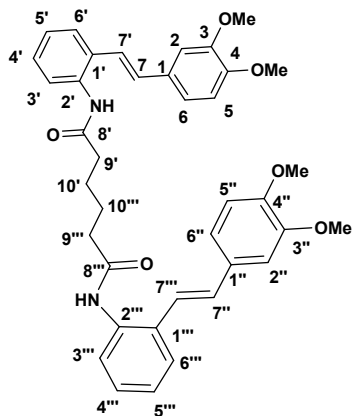
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4 **Figure S53: C HMQC GP <sup>1</sup>H-<sup>13</sup>C}(CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)**  
5 **glutaramide (EXPANSION).**

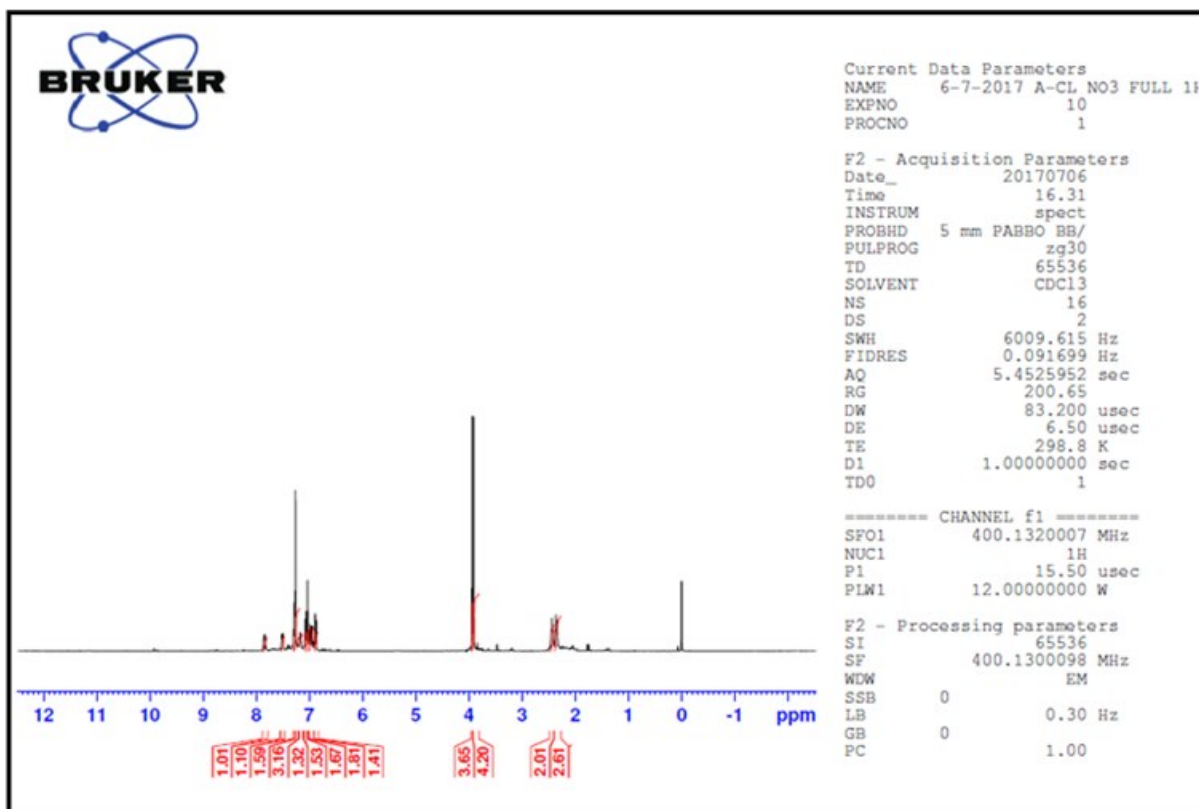
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Figure S54: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide).

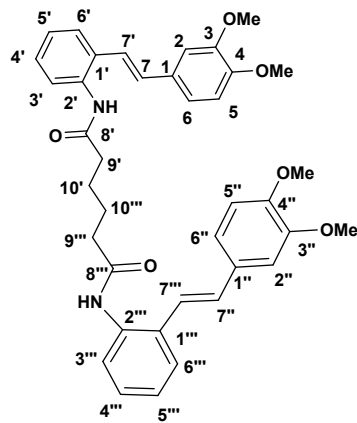
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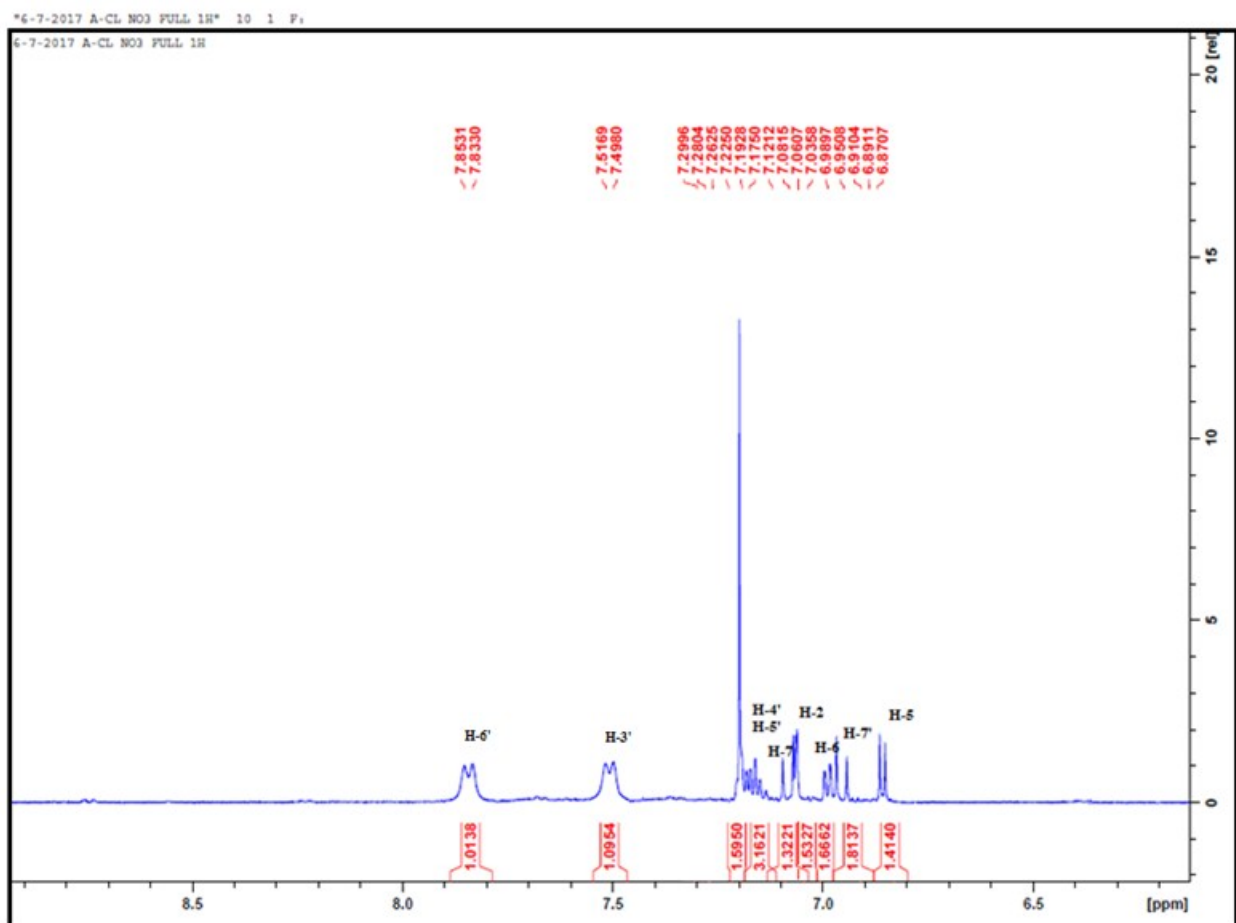
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Figure S55: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide

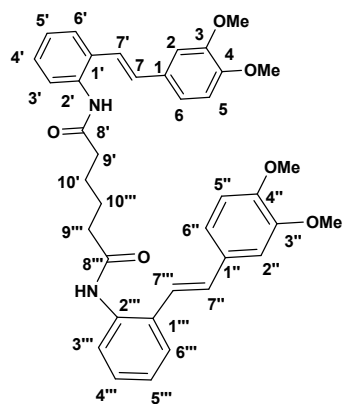
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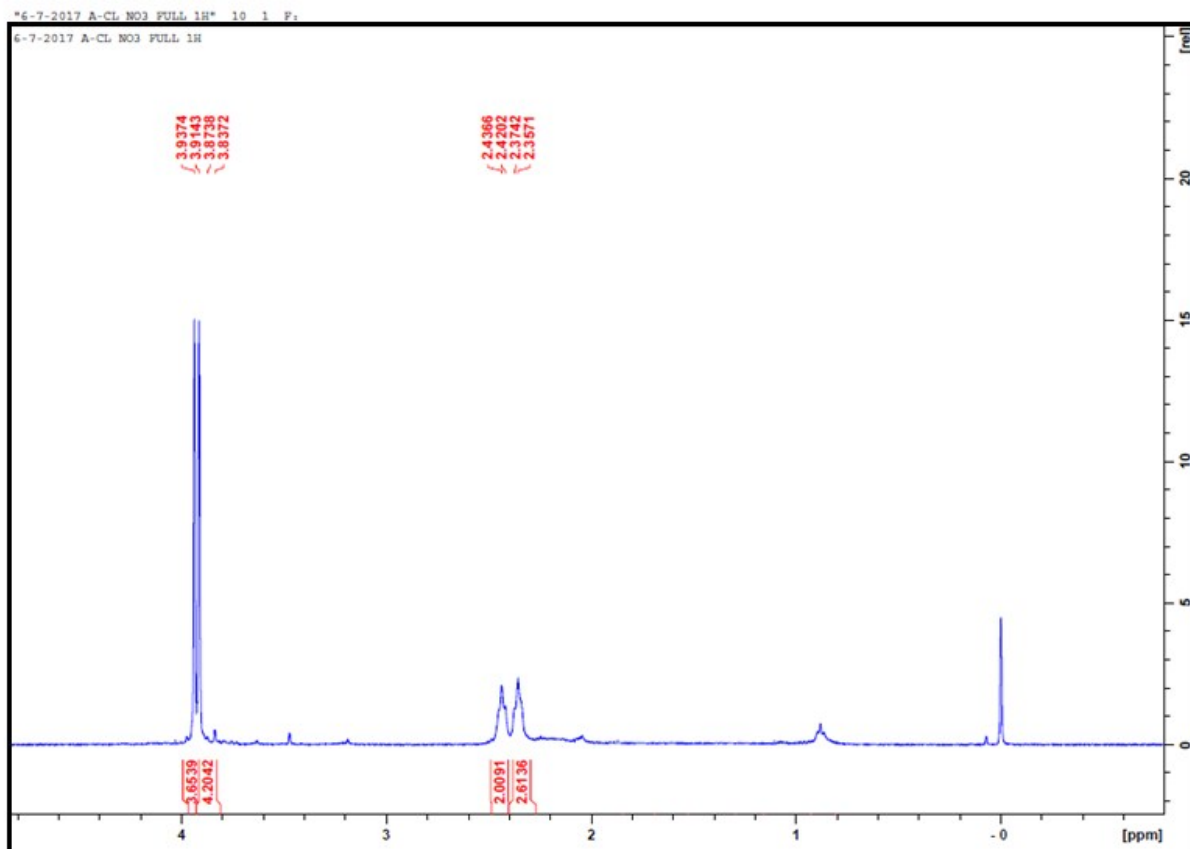
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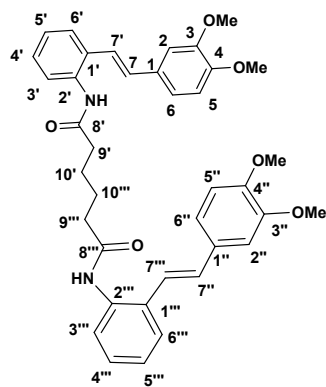
Figure S56: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide (EXPANSION).

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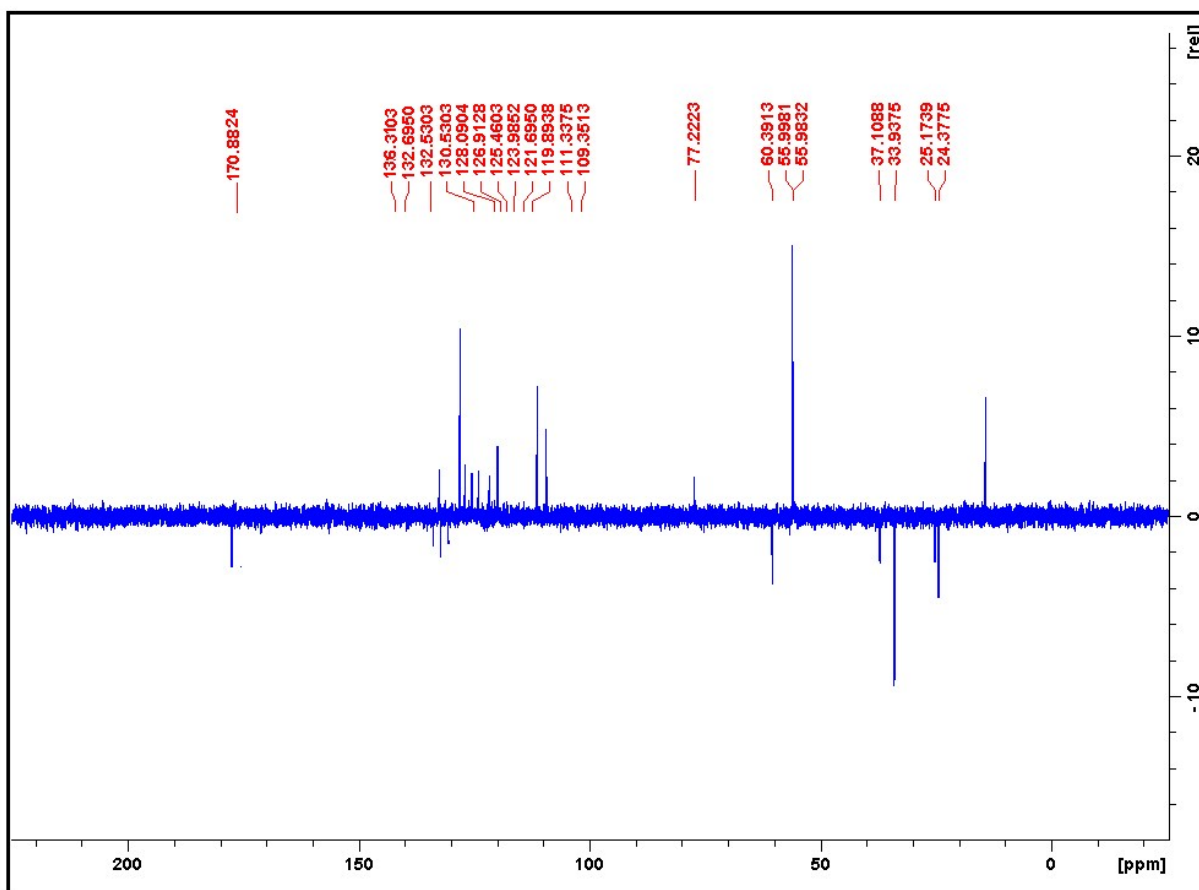
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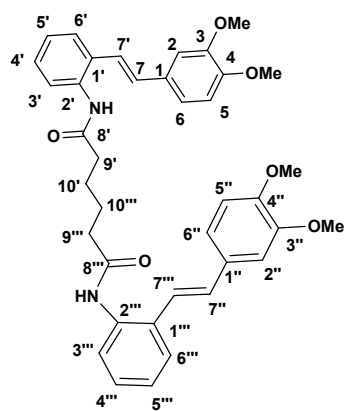
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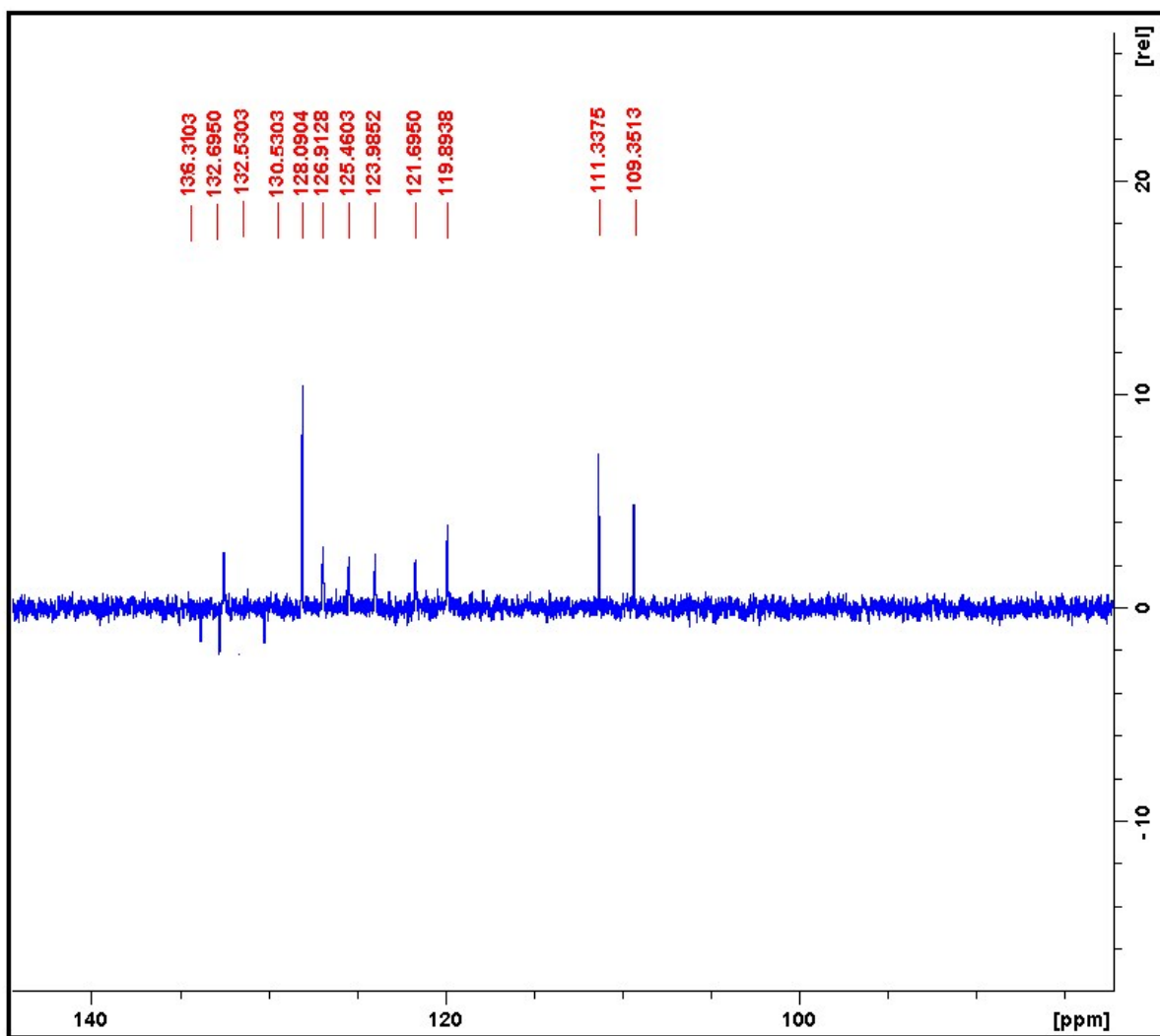
Figure S57:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide).

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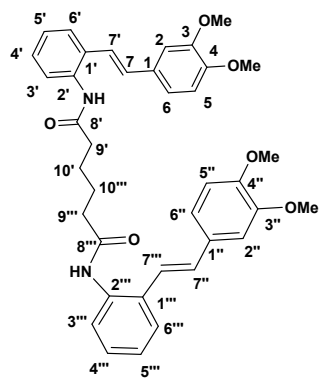
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Figure S58:  $^{13}\text{C}$  DEPT135,  $\text{CH}_3/\text{CH}$  po  $\{^1\text{H}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide) (EXPANSION).



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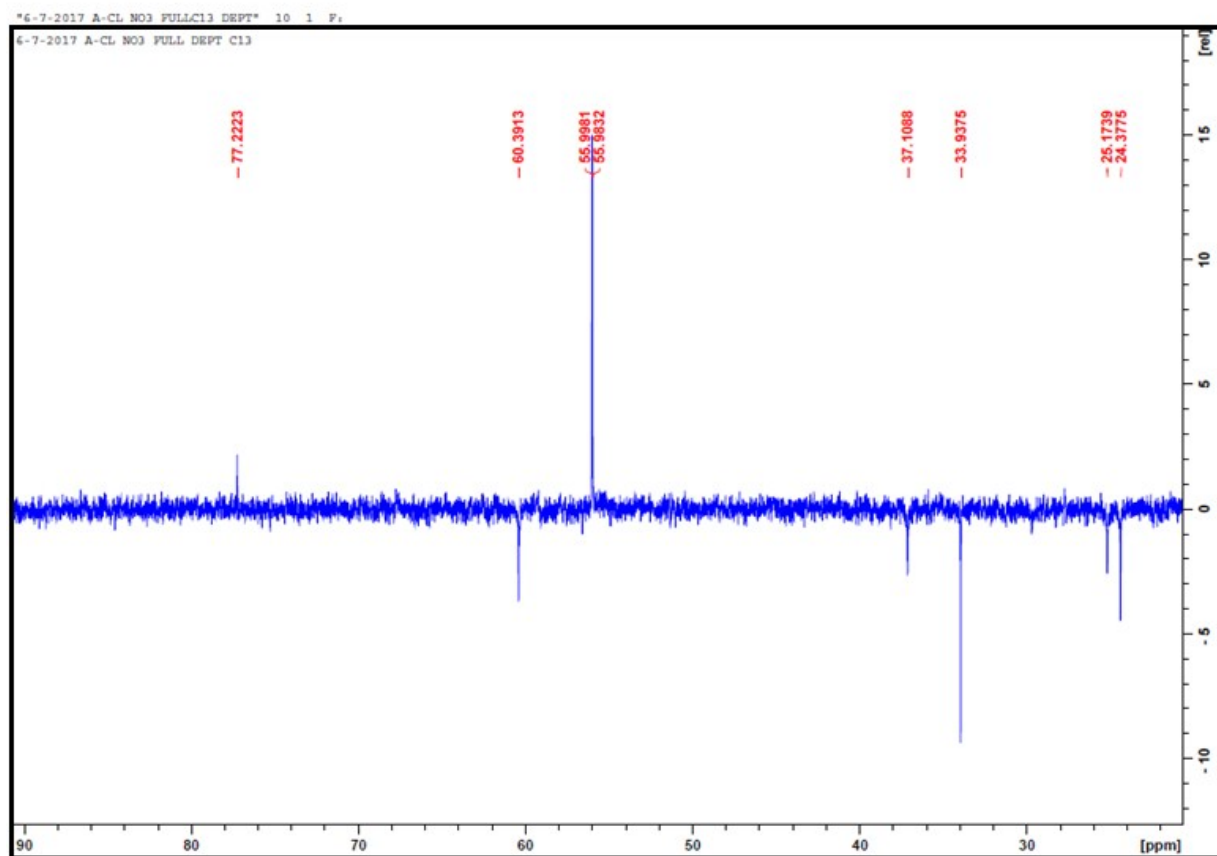


Figure S59: <sup>13</sup>C DEPT135, CH<sub>3</sub>/CH po {<sup>1</sup>H}(CDCl<sub>3</sub>, 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide (EXPANSION).

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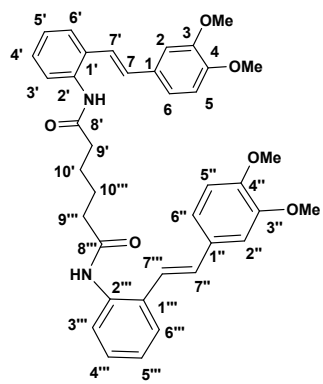
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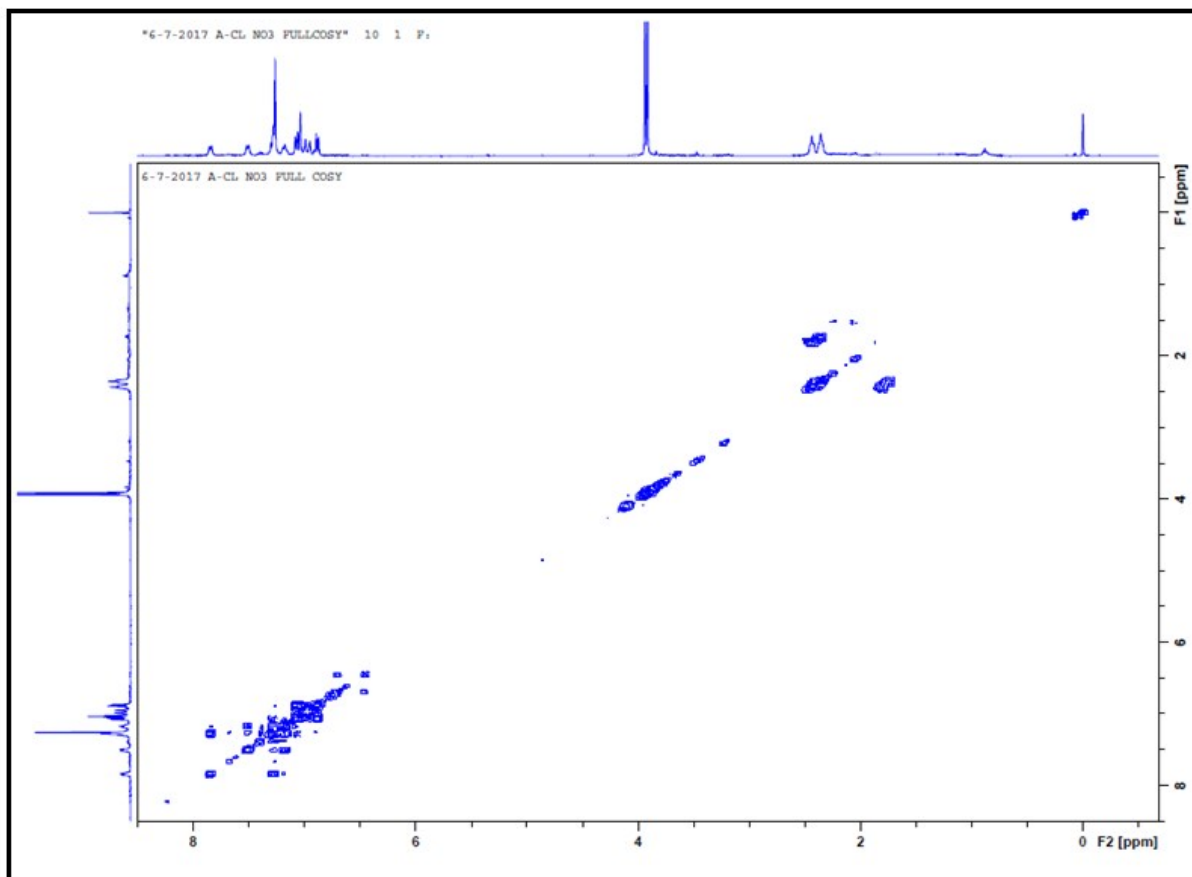
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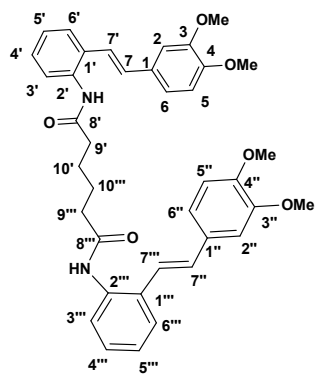
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Figure S60: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide).



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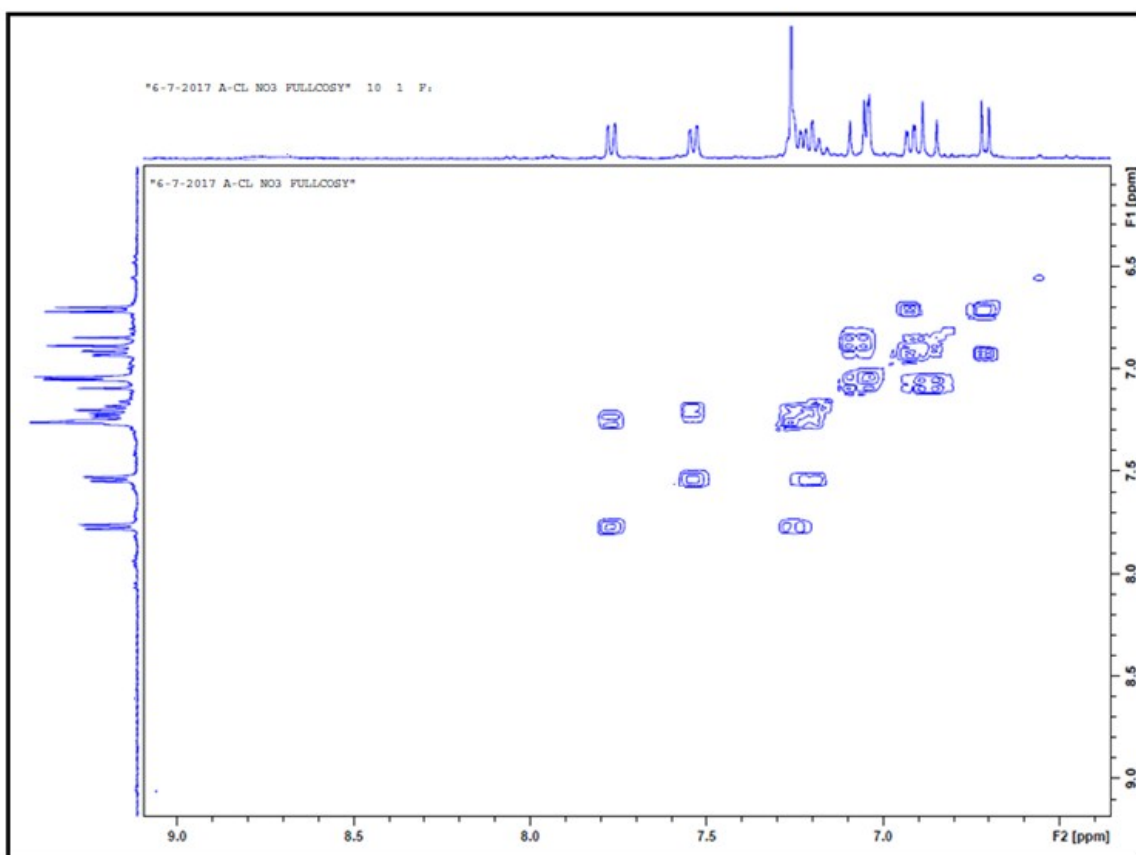


Figure S61: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide (EXPANSION).

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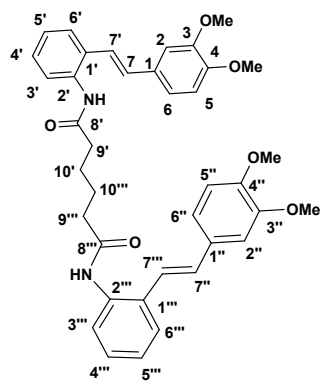
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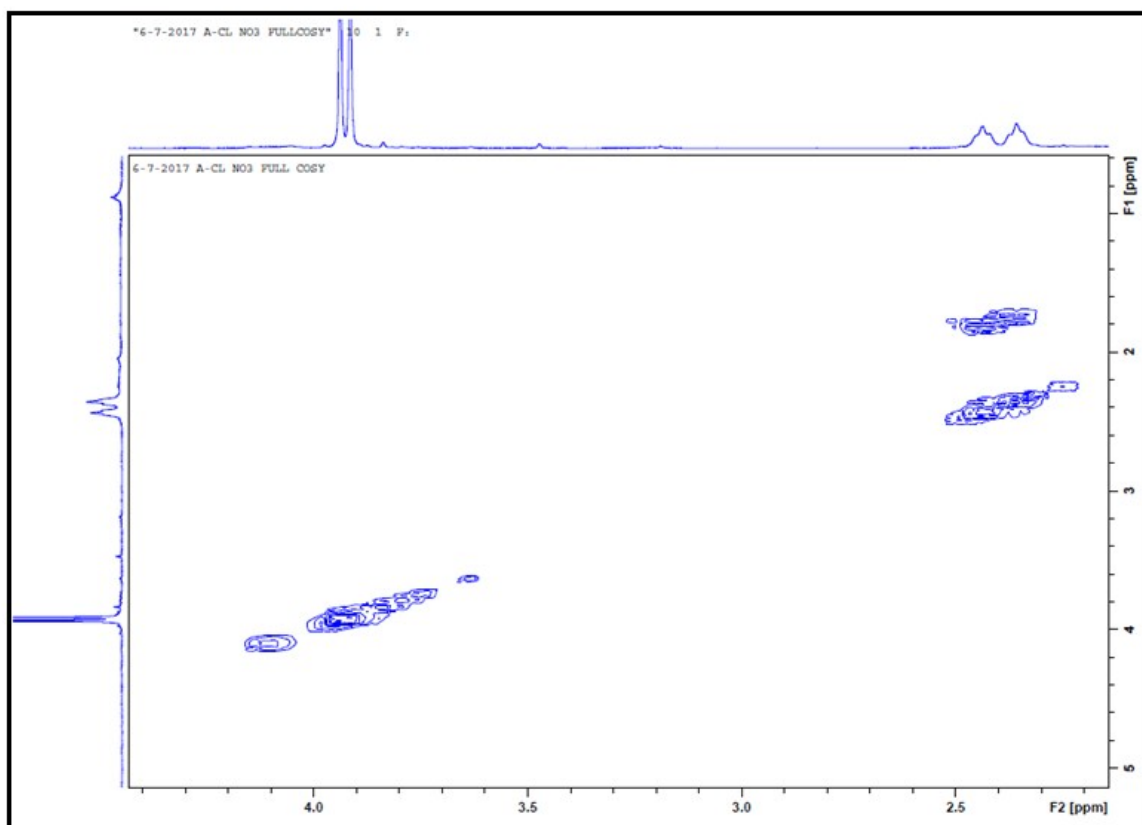


Figure S62: C COSY GPSW  $\{^1\text{H}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide) (EXPANSION).

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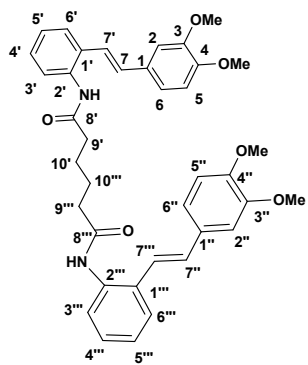
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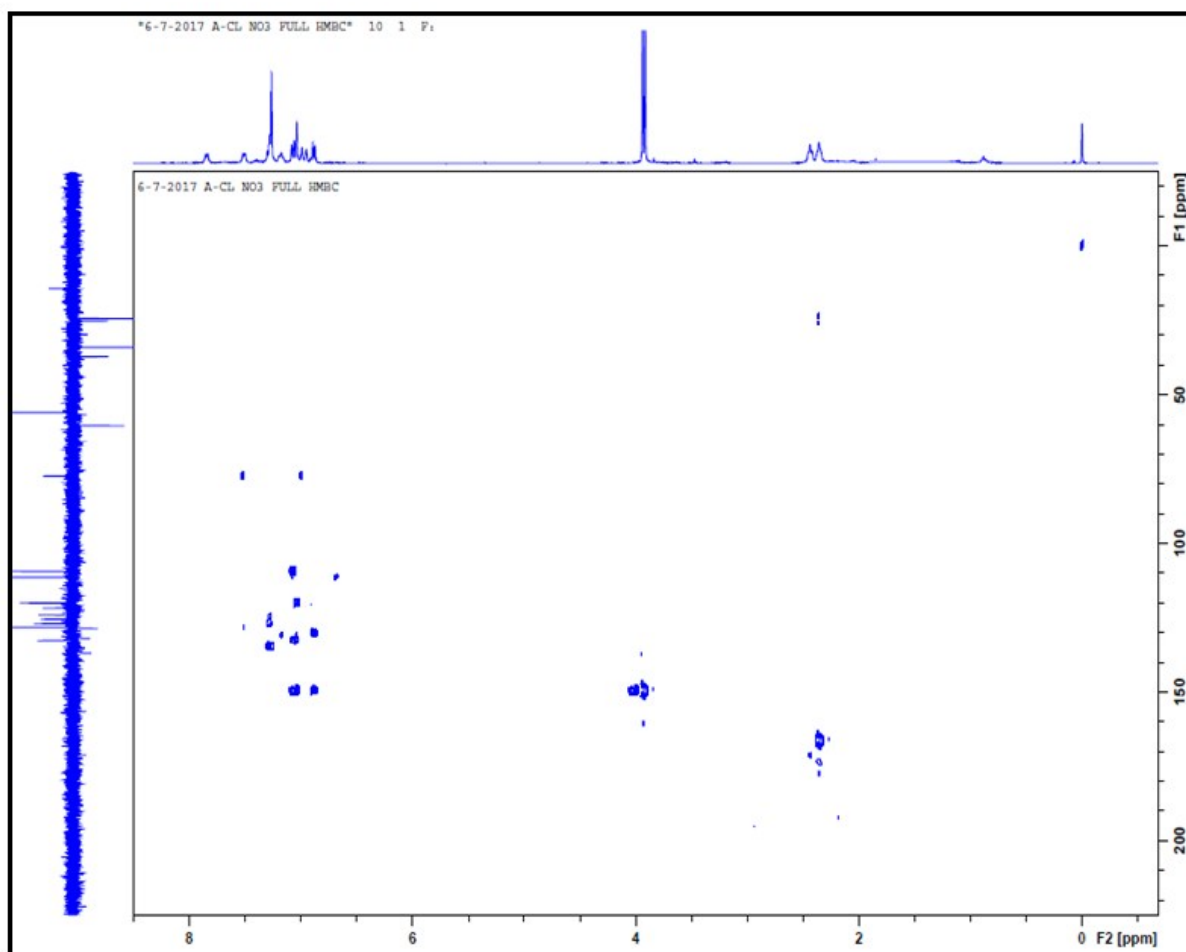
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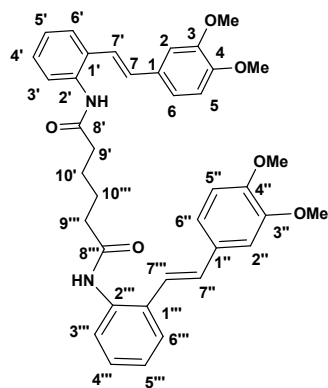
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Figure S63: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide.





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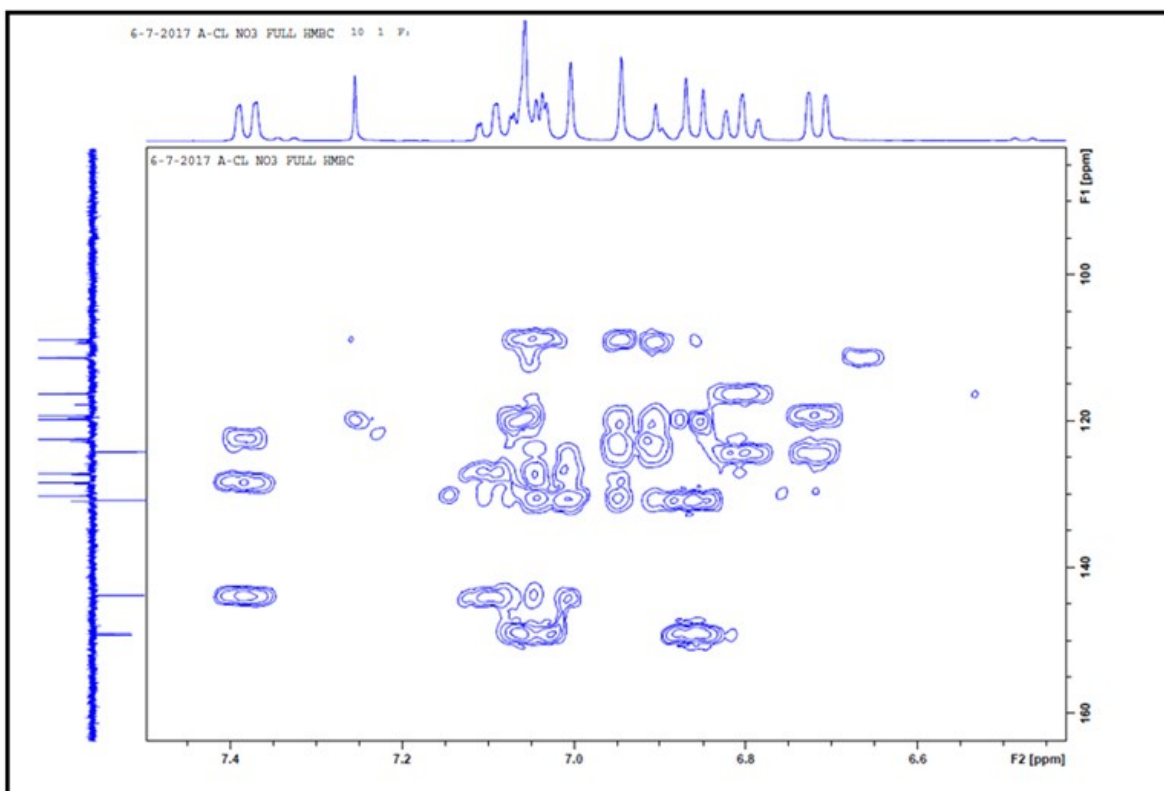
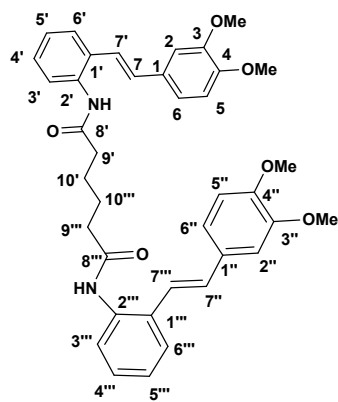


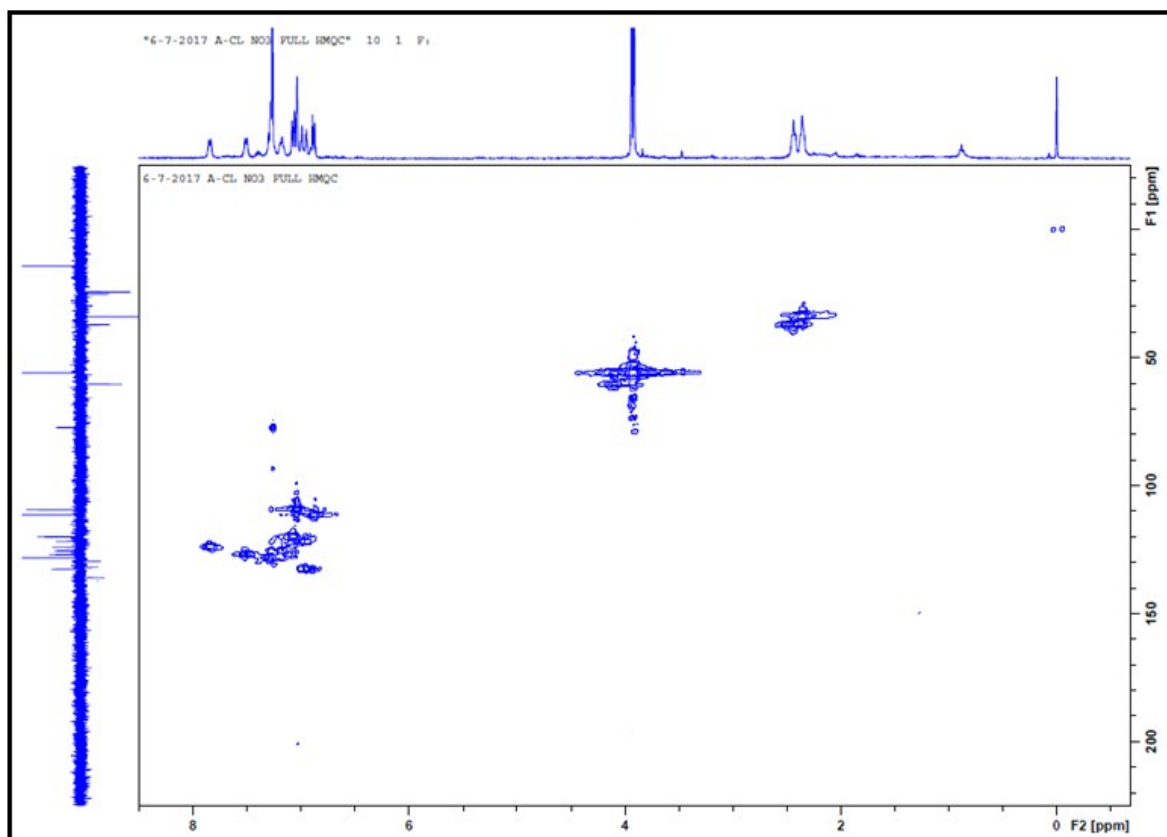
Figure S64: C HMBC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide) (EXPANSION).

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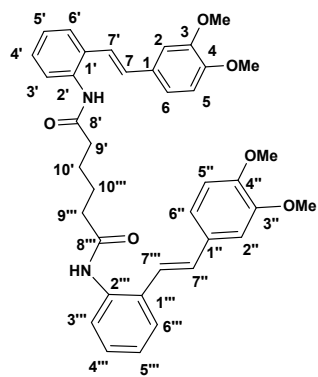
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Figure S65: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide.



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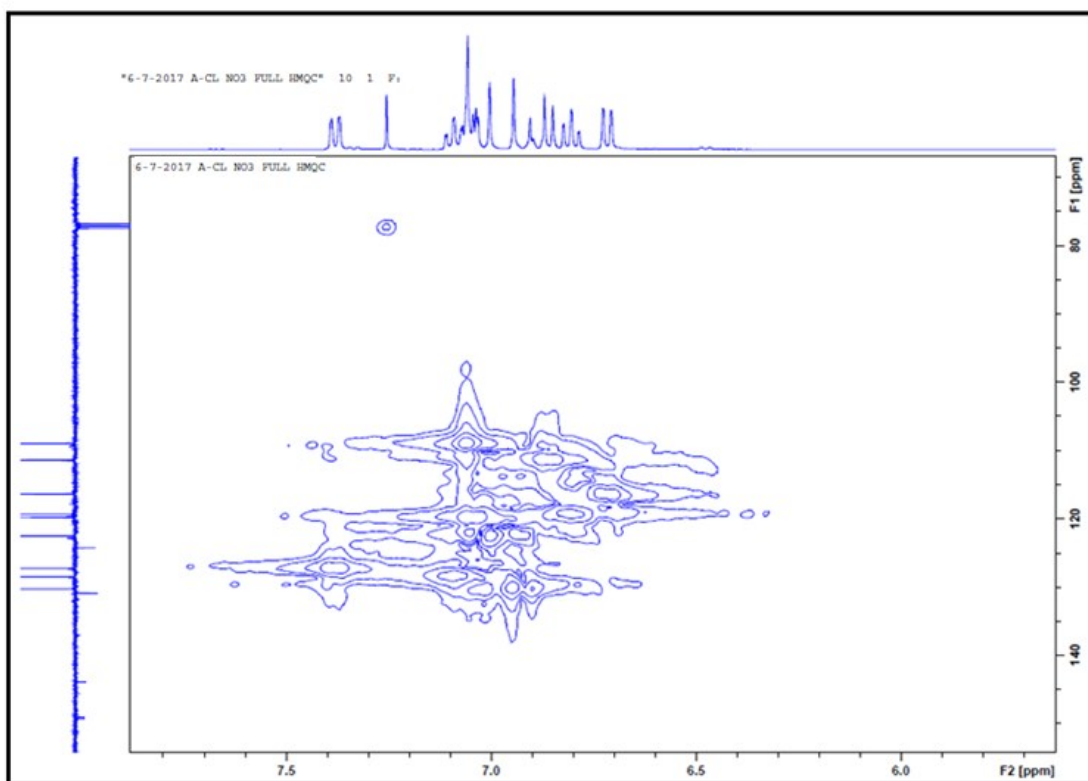
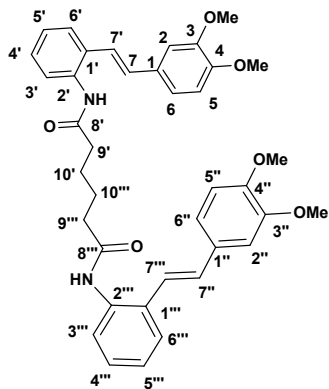


Figure S66: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide) (EXPANSION).

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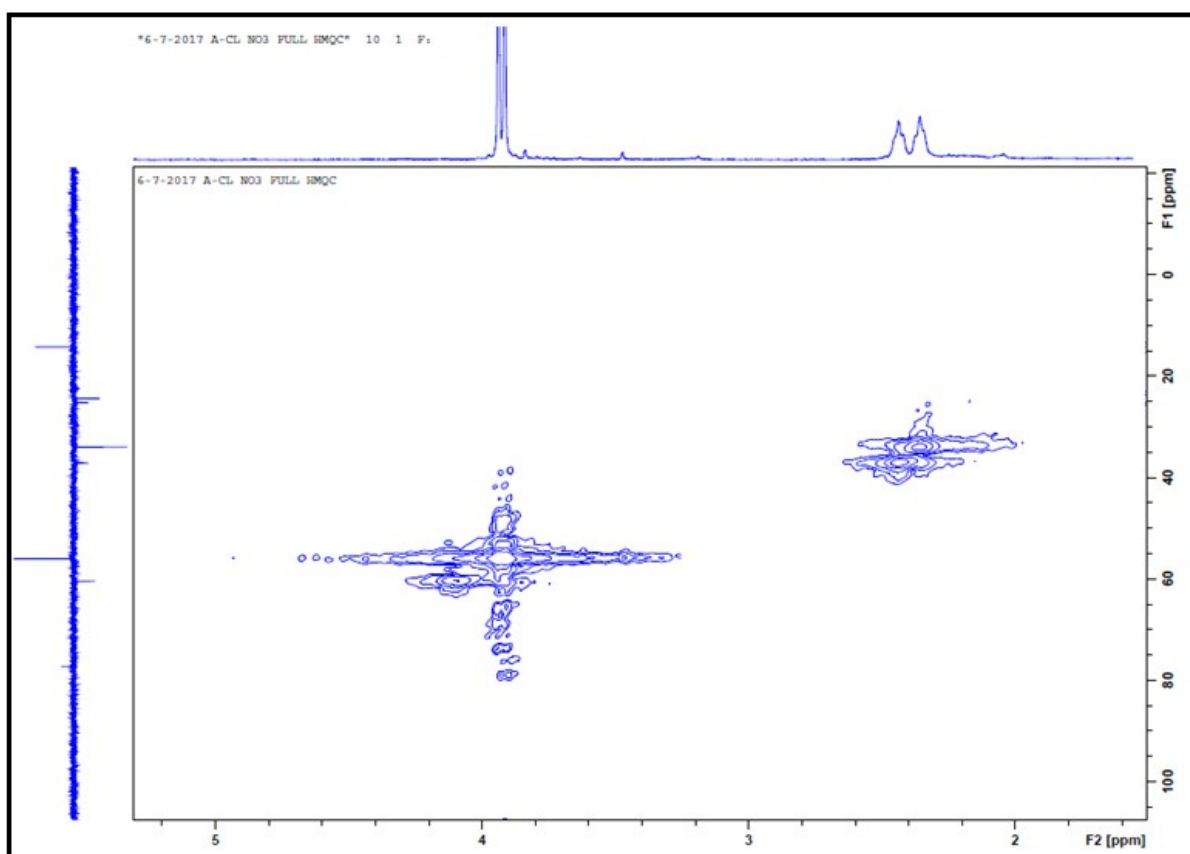
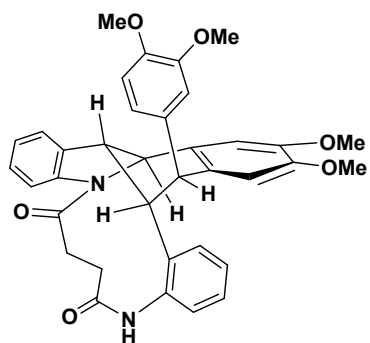
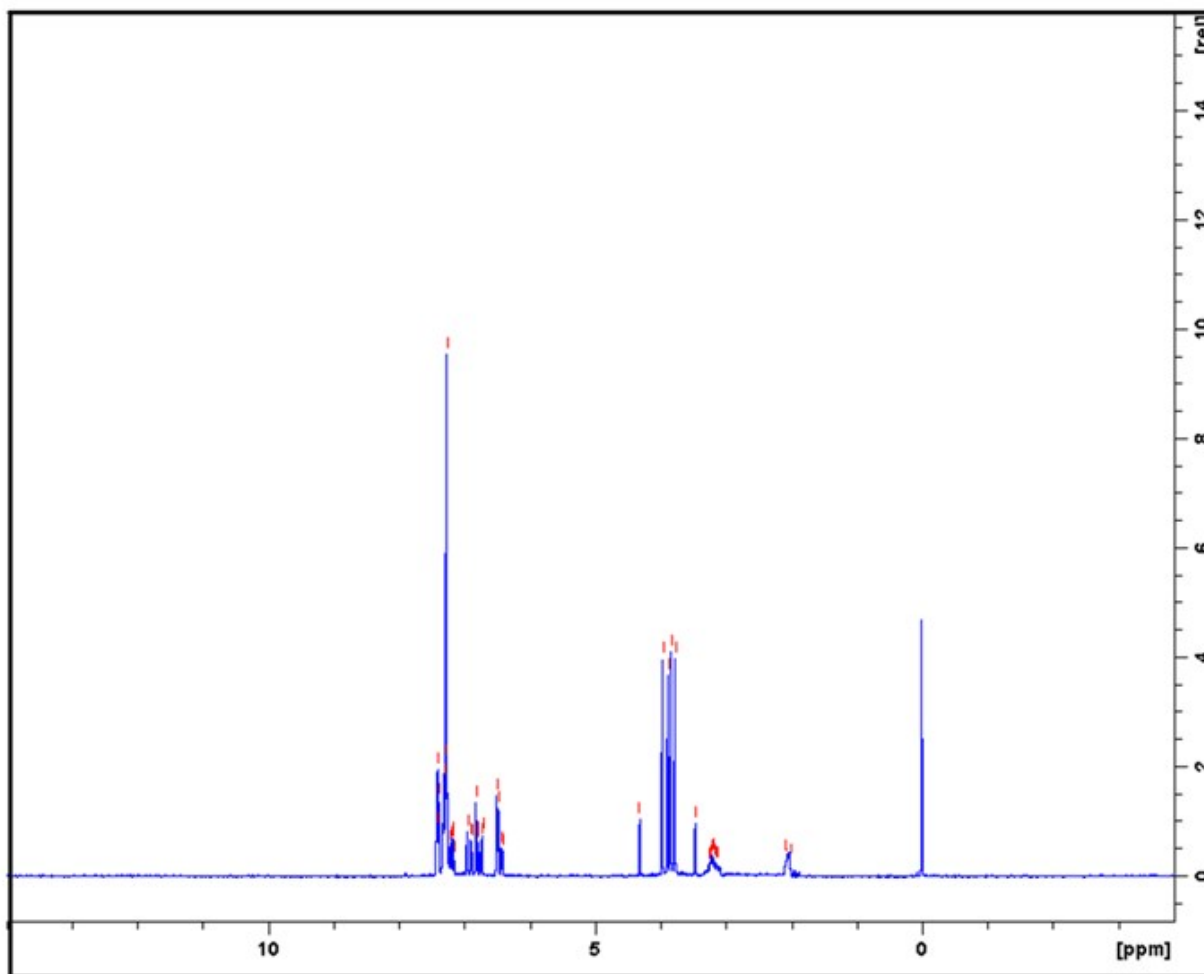


Figure S67:  $^1\text{H}$ - $^{13}\text{C}$  HMQC NMR spectrum of compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide) (EXPANSION).

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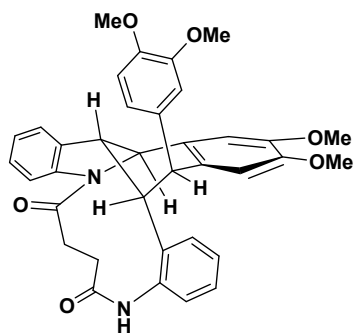
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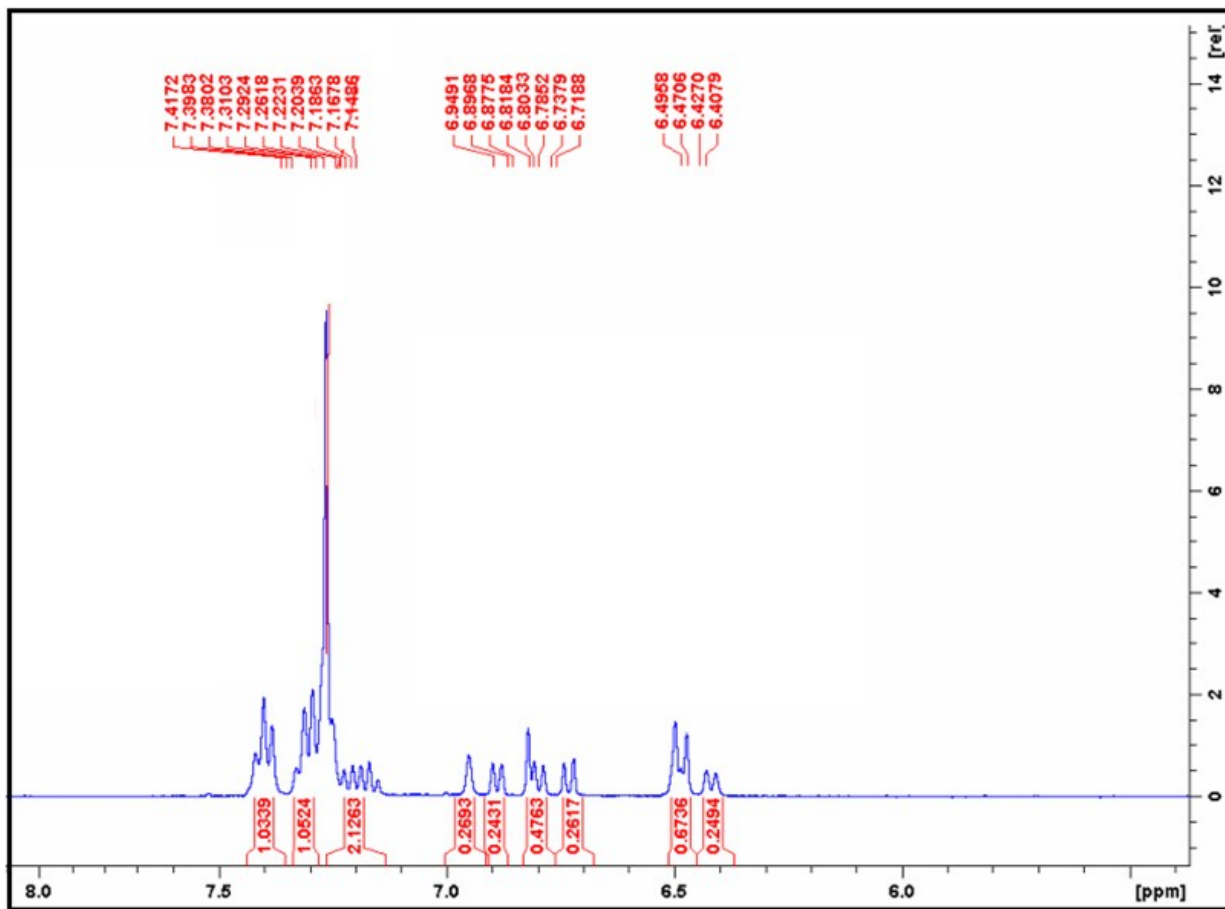
Figure S68: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound (73) Scheme 17.

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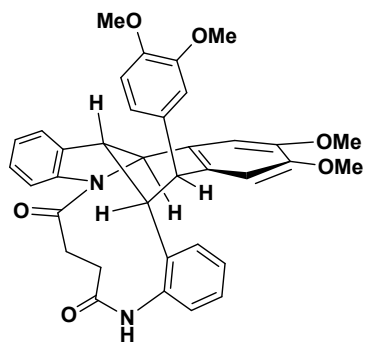
Figure S69: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 400MHz) spectrum of compound (73) Scheme 17 (EXPANSION).

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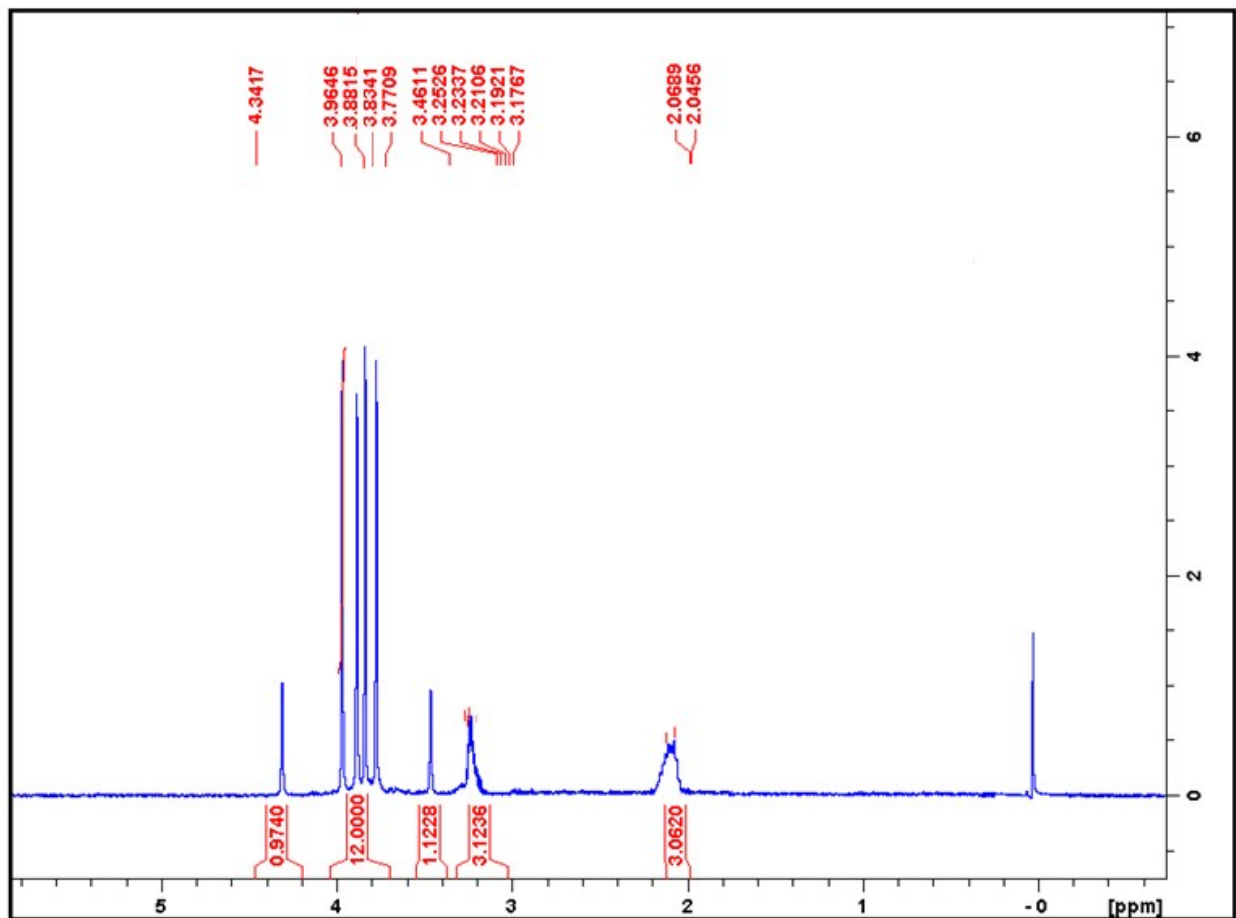
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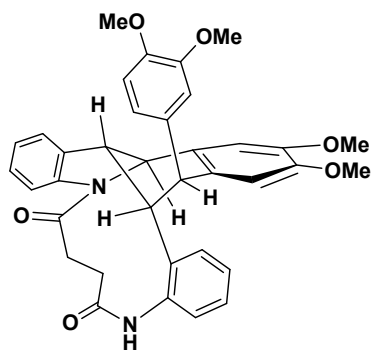
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Figure S70:  $^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (73) Scheme 17 (EXPANSION).

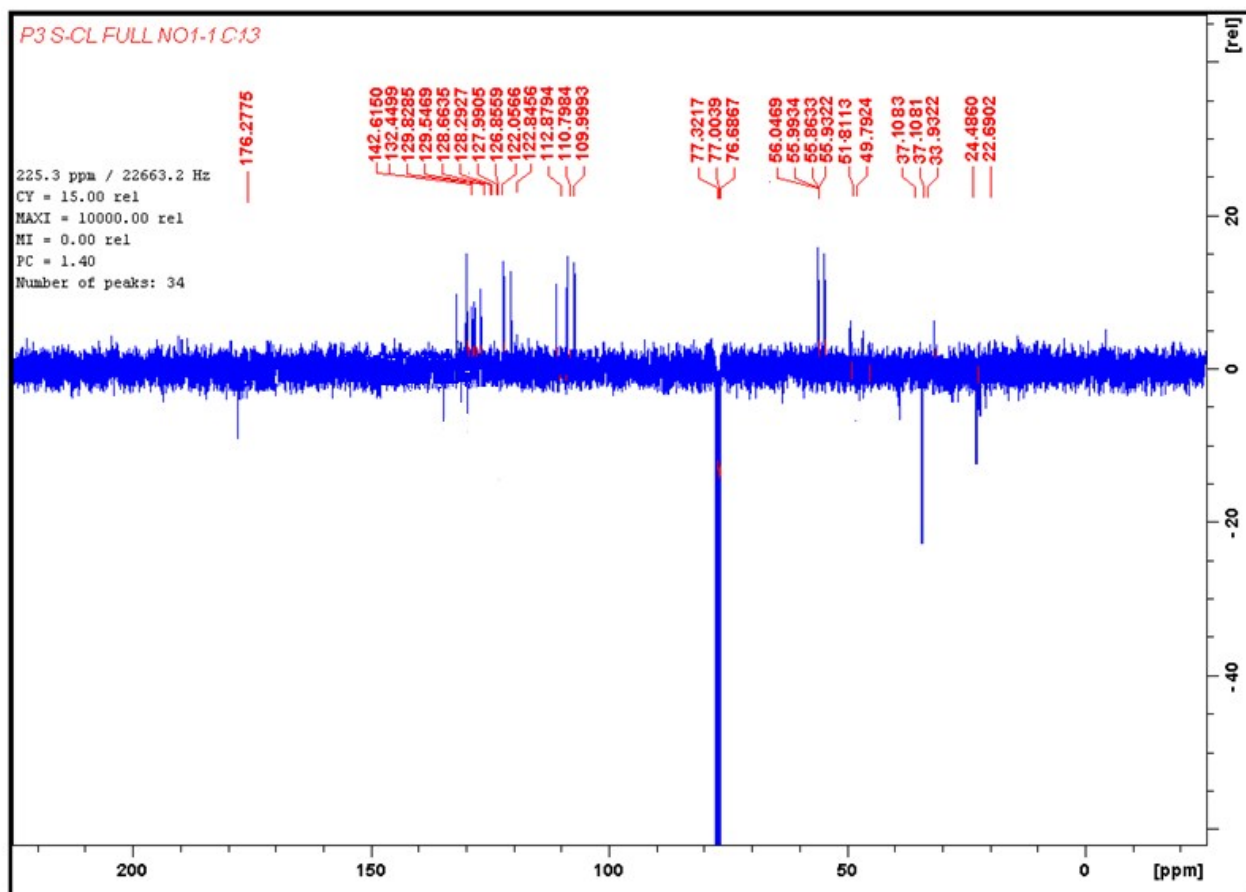
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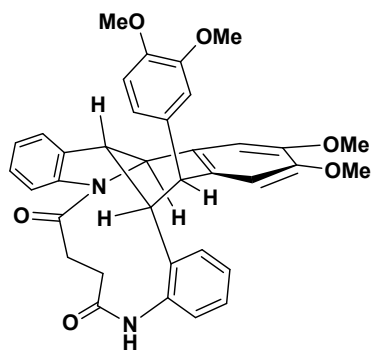
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Figure S71: <sup>13</sup>C DEPT135, CH<sub>3</sub>/CH po {<sup>1</sup>H}(CDCl<sub>3</sub>, 400MHz) spectrum of compound (73) Scheme

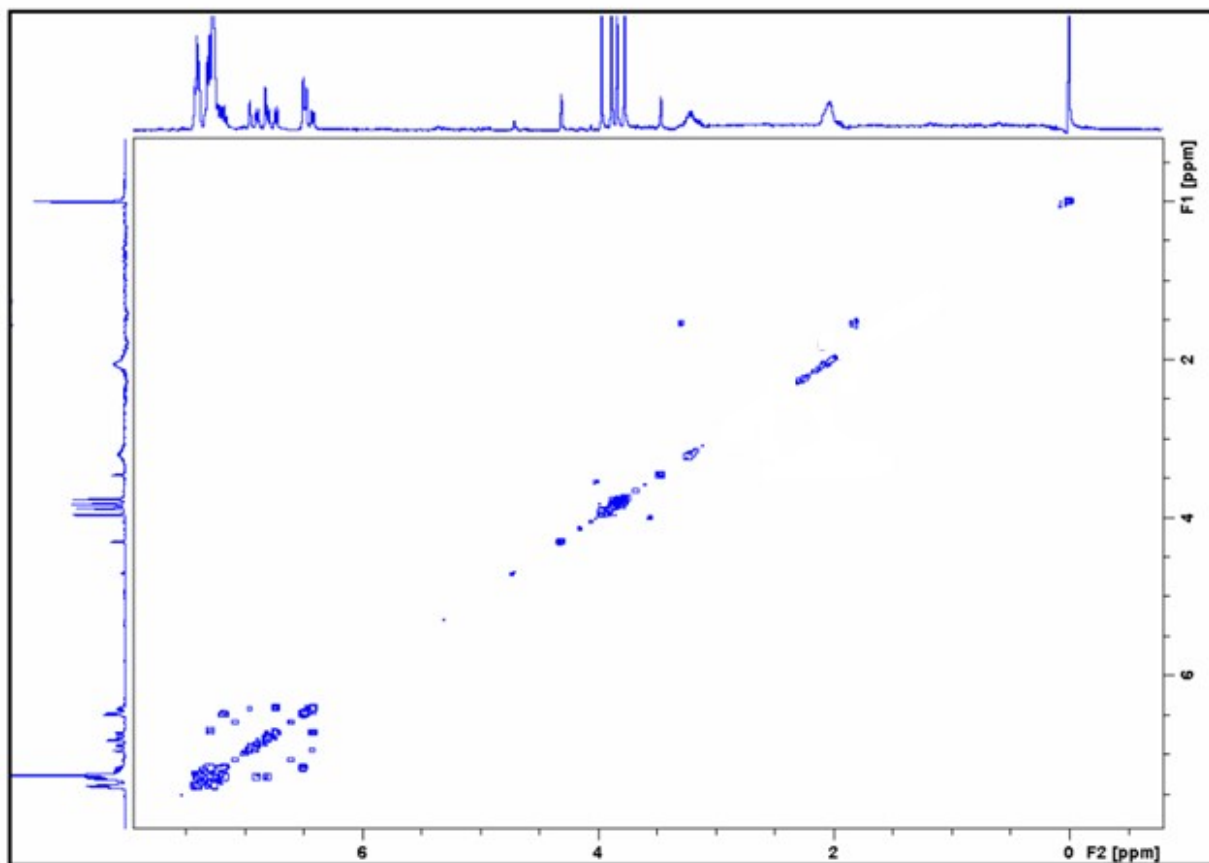
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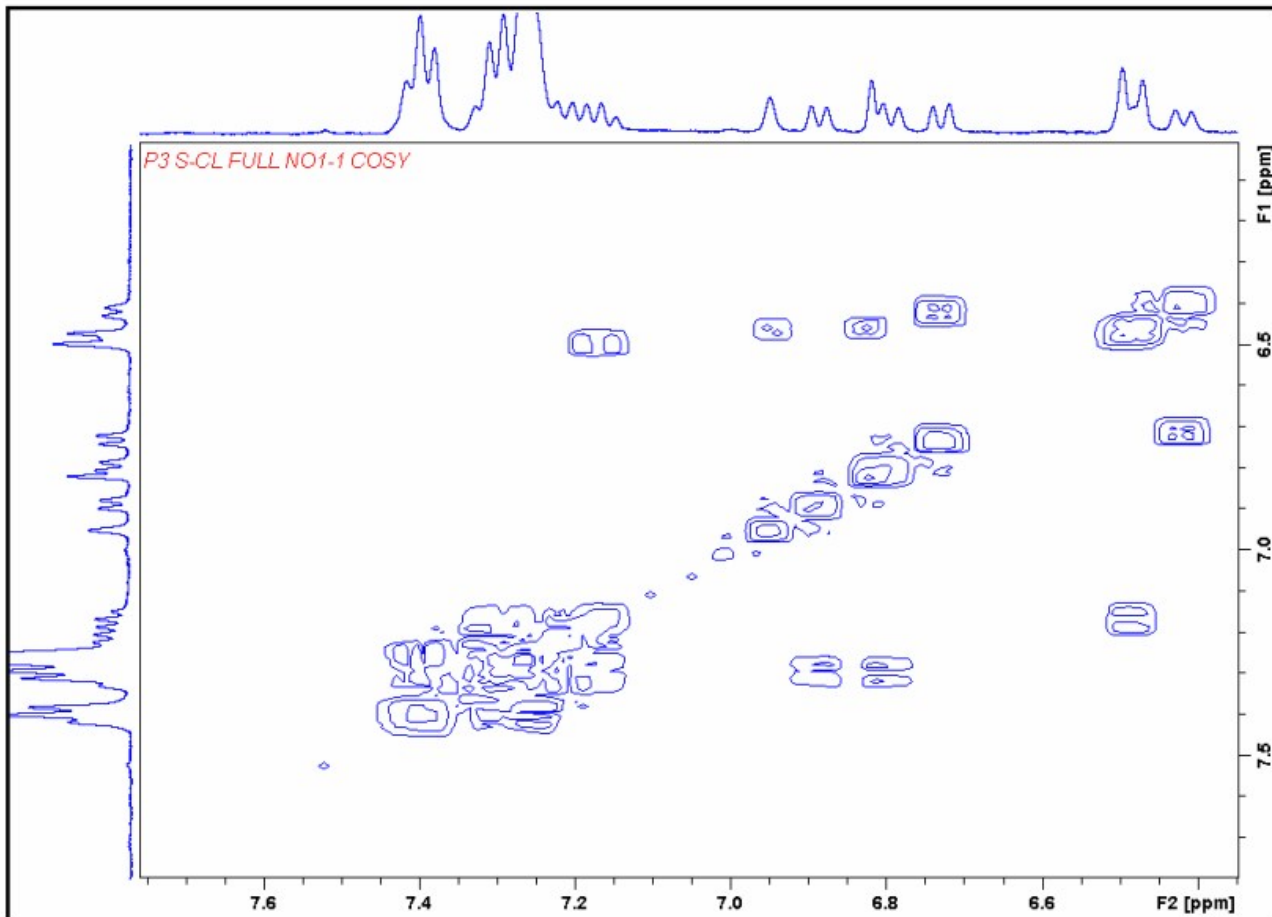


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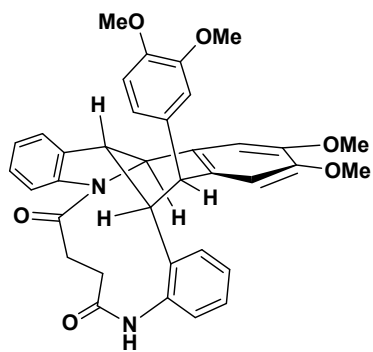
Figure S72: C COSY GPSW <sup>1</sup>H(CDCl<sub>3</sub>, 400MHz) spectrum of compound compound (73) Scheme 17.

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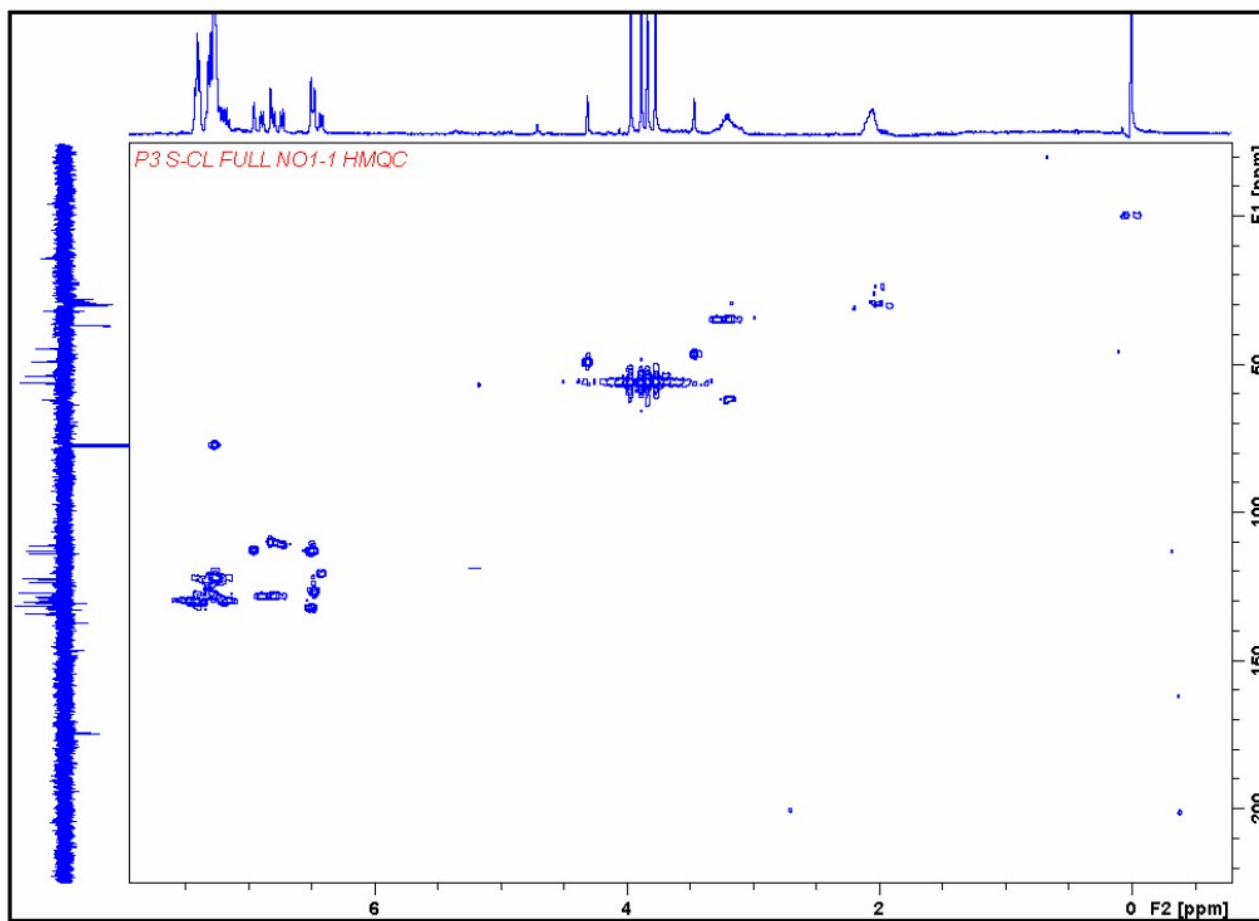


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Figure S73: C COSY GPSW {<sup>1</sup>H}(CDCl<sub>3</sub>, 400MHz) spectrum of compound (73) Scheme 17 (EXPANSION).



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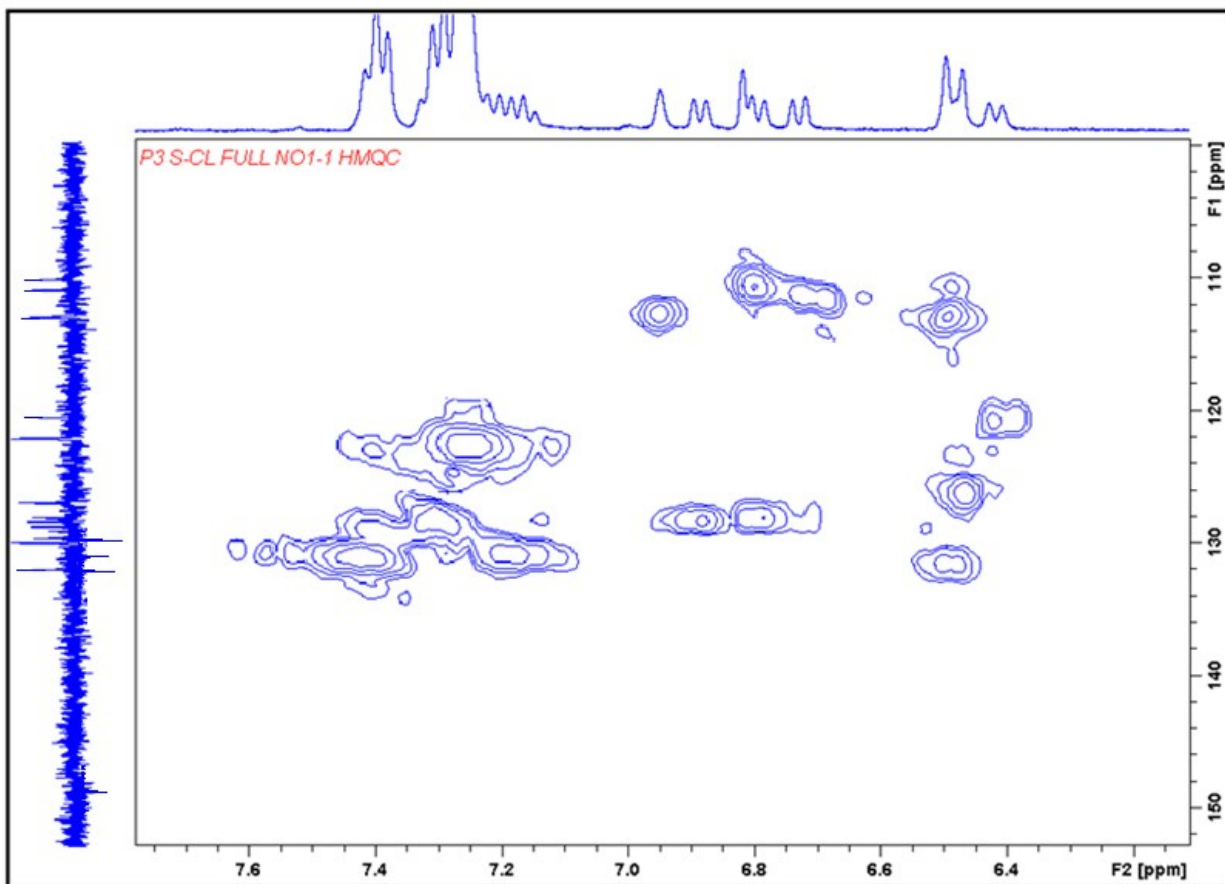


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Figure S74:  $^{13}\text{C}$  HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$  ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (73) Scheme 17.

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Figure S75: C HMQC GP  $\{^1\text{H}-^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) s spectrum of compound compound (73) Scheme 17  
(EXPANSION).

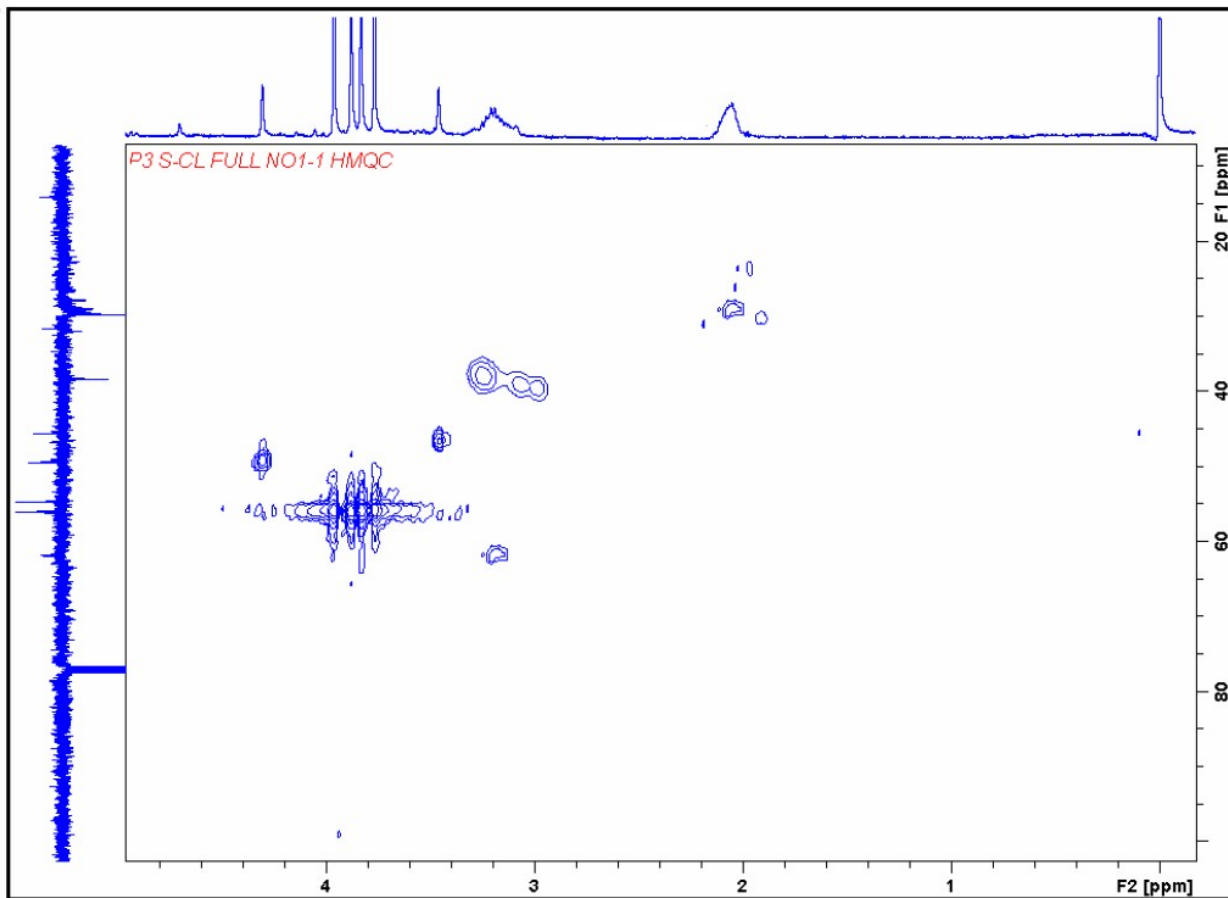
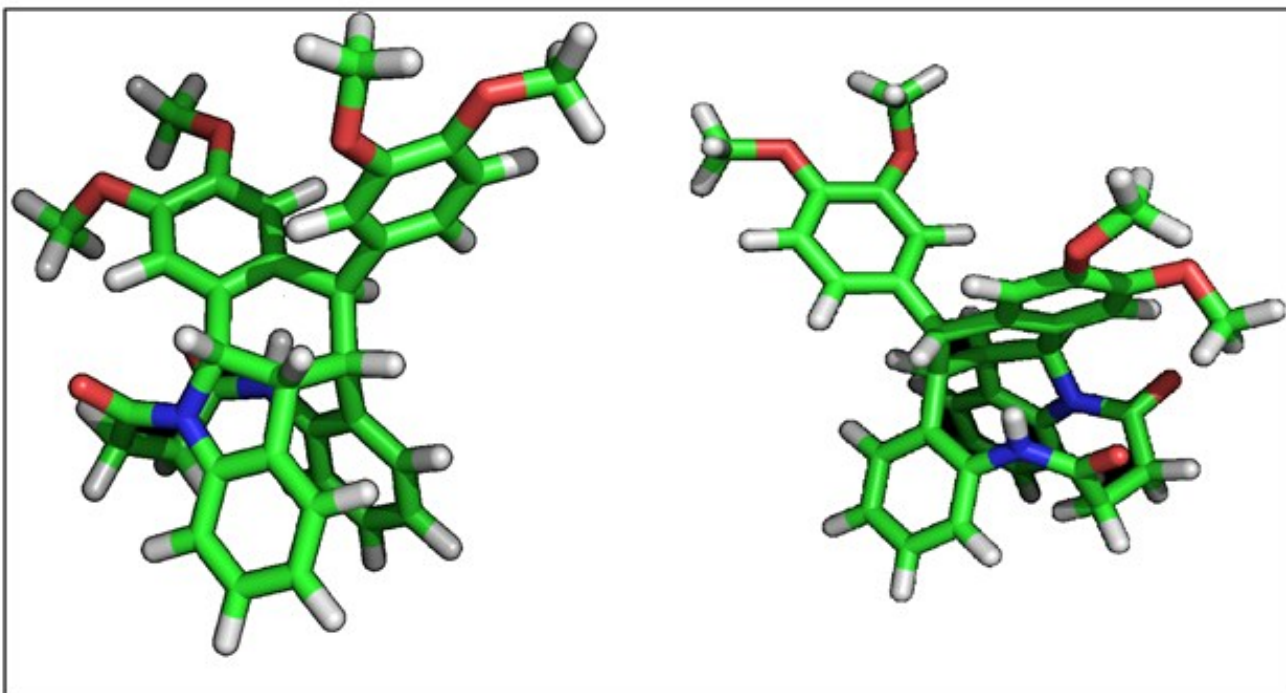


Figure S76:  $^1\text{H}$ - $^{13}\text{C}$  HMQC GP  $\{^1\text{H}$ - $^{13}\text{C}\}$ ( $\text{CDCl}_3$ , 400MHz) spectrum of compound (73) Scheme 17

(EXPANSION).

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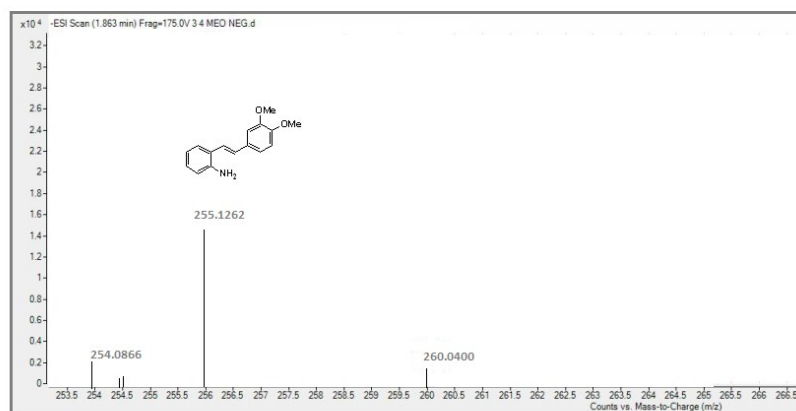
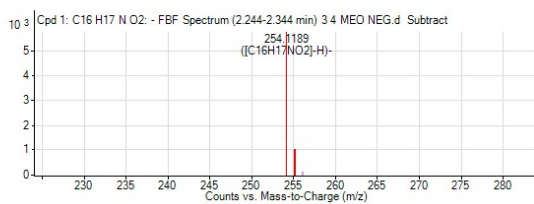
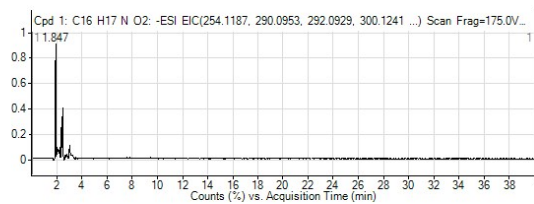
**Figure S77** : Two views of the Chem 3D of compound **73**.

**Data File** 3 4 MEO NEG.d **Sample Name** 3 4 MEO NEG  
**Sample Type** Sample **Position** P1-A2  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** MARYAM SADAT NEG.m **Acquired Time** 02-Aug-17 5:15:58 PM  
**IRM Calibration Status** Success **DA Method** default.m  
**Comment**

**Sample Group** **Info.**  
**Acquisition SW** 6200 series TOF/6500  
**Version** series Q-TOF B.05.01  
 (B5125.3)

Compound Table

Compound Label	Data File	RT	Mass	Abund	Name	Formula	Tgt Mass	Diff (ppm)	MFG Formula	MFG Diff (ppm)	DB Formula
Cpd 1: C16H17NO2		2.278	255.32	5790		C16H17NO2	255.1259	0.94	C16H17NO2		C16H17NO2



MS Spectrum Peak List

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
254.1189			1	5790.48	C16H17NO2	(M+H)-
255.322			1	567.57	C16H17NO2	(M+H)-

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Figure S78: Mass information of compound (E)-2-(3,4-dimethoxystyryl)aniline.

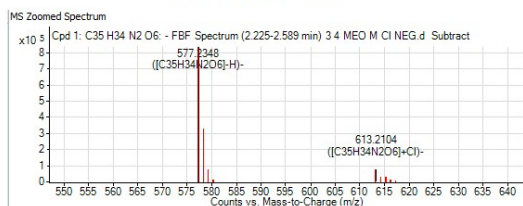
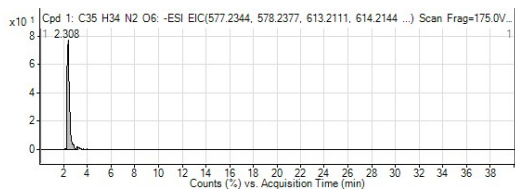
**Data File** 3 4 MEO M CI NEG.d **Sample Name** 3 4 MEO M CI NEG  
**Sample Type** Sample **Position** P1-A6  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** MARYAM SADAT NEG.m **Acquired Time** 03-Aug-17 8:38:30 AM  
**IRM Calibration Status** Success **DA Method** default.m  
**Comment**

**Sample Group**  
**Acquisition SW** 6200 series TOF/6500  
**Version** series Q-TOF B.05.01 (B5125.3)

**Compound Table**

Compound Label	Data File	RT	Mass	Abund	Name	Formula	Tqt Mass	Diff (ppm)	MFG Formula	MFG Diff (ppm)	DB Formula
Cpd 1: C35 H34 N2 O6		2.308	578.2418	838747		C35 H34 N2 O6	578.2417	0.28	C35 H34 N2 O6		C35 H34 N2 O6

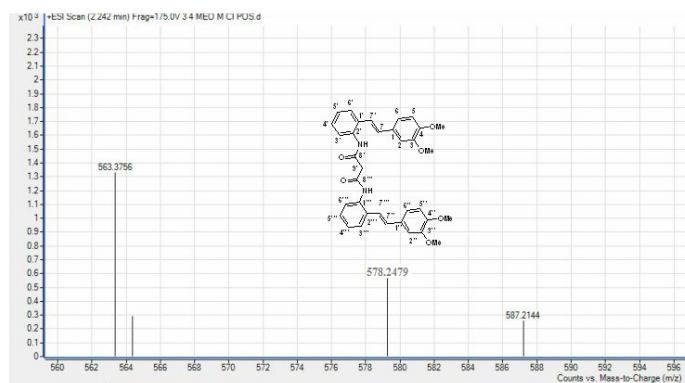
Compound Label	Name	m/z	RT	Algorithm	Mass
Cpd 1: C35 H34 N2 O6		577.2348	2.308	Find By Formula	578.2418



**MS Spectrum Peak List**

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
577.2348			1	838747.06	C35H34N2O6	(M+H)-
578.2378			1	324719.91	C35H34N2O6	(M+H)-
579.24			1	48982.52	C35H34N2O6	(M+H)-
580.2418			1	2976.33	C35H34N2O6	(M+H)-
613.2104			1	78116.98	C35H34N2O6	(M+Cl)-
614.213			1	18991.65	C35H34N2O6	(M+Cl)-
615.2085			1	17427.04	C35H34N2O6	(M+Cl)-
616.2099			1	3095.16	C35H34N2O6	(M+Cl)-
617.2111			1	352.83	C35H34N2O6	(M+Cl)-

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**Figure S79: Mass spectral data for compound bis (2-(E)-3,4-dimethoxystyryl)phenyl malonamide.**



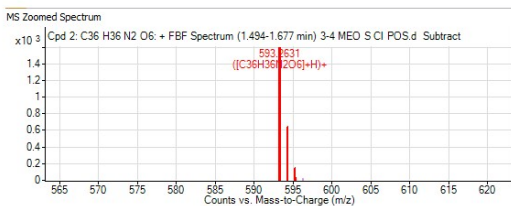
**Data File** 3-4 MEO S CI POS.d **Sample Name** 3-4 MEO S CI POS  
**Sample Type** Sample **Position** P1-A2  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** MARYAM SADAT POS.m **Acquired Time** 12-Jul-17 11:39:36 AM  
**IRI Calibration Status** Success **DA Method** default.m  
**Comment**

**Sample Group** **Info.**  
**Acquisition SW** 6200 series TOF/6500  
**Version** series Q-TOF B.05.01  
 (B5125.3)

**Compound Table**

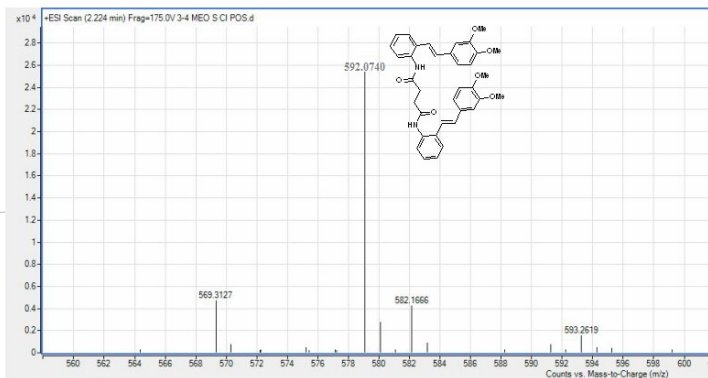
Compound Label	Data File	RT	Mass	Abund	Name	Formula	Tgt Mass	Diff (ppm)	MFG Formula	MFG Diff (ppm)	DB Formula
Cpd 2: C36 H36 N2 O6		1.594	592.2557	1605		C36 H36 N2 O6	592.2573	-2.75	C36 H36 N2 O6		C36 H36 N2 O6

Compound Label	Name	m/z	RT	Algorithm	Mass
Cpd 2: C36 H36 N2 O6		593.2631	1.594	Find By Formula	592.2557



**MS Spectrum Peak List**

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
593.2631			1	1605.02	C36H36N2O6	(M+H)+
594.2638			1	370.72	C36H36N2O6	(M+H)+
595.2686			1	45.67	C36H36N2O6	(M+H)+



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**Figure S80: Mass spectral data for compound bis(2((E)-(3,4-dimethoxystyryl)phenyl)succinamide.**

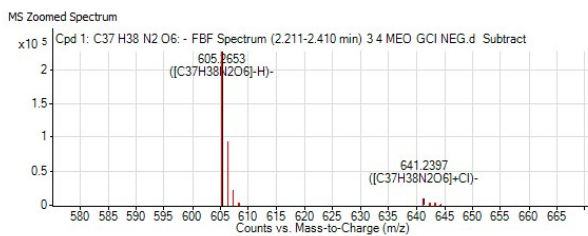
**Data File** 3 4 MEO GCI NEG.d **Sample Name** 3 4 MEO GCI NEG  
**Sample Type** Sample **Position** P1-A5  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** MARYAM SADAT NEG.m **Acquired Time** 02-Aug-17 7:47:54 PM  
**IRM Calibration Status** Success **DA Method** default.m  
**Comment**

**Sample Group** Info.  
**Acquisition SW** 6200 series TOF/6500  
**Version** series Q-TOF B.05.01  
 (B5125.3)

**Compound Table**

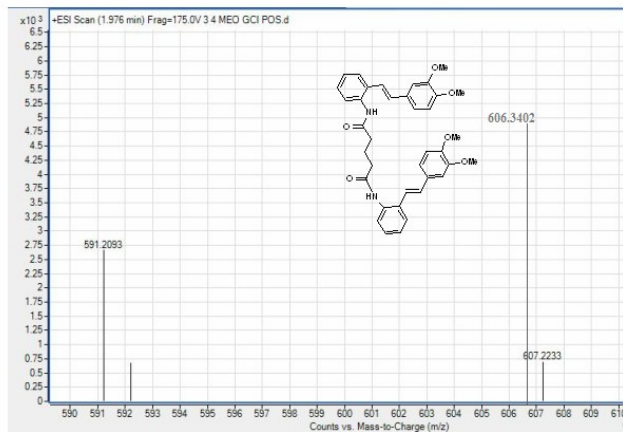
Compound Label	Data File	RT	Mass	Abund	Name	Formula	Tgt Mass	Diff (ppm)	MFG Formula	MFG Diff (ppm)	DB Formula
Cpd 1: C37 H38 N2 O6		2.327	606.2723	226874		C37H38N2O6	606.273	-1.08	C37H38N2O6		C37H38N2O6

Compound Label	Name	m/z	RT	Algorithm	Mass
Cpd 1: C37 H38 N2 O6		605.2653	2.327	Find By Formula	606.2723



**MS Spectrum Peak List**

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
605.2653			1	226873.64	C37H38N2O6	(M-H)-
606.2682			1	76128.48	C37H38N2O6	(M-H)-
607.2704			1	7741.57	C37H38N2O6	(M-H)-
608.2718			1	517.17	C37H38N2O6	(M-H)-
641.2397			1	9114.51	C37H38N2O6	(M+Cl)-
642.2422			1	1962.98	C37H38N2O6	(M+Cl)-
643.2385			1	1741.4	C37H38N2O6	(M+Cl)-
644.2397			1	366.84	C37H38N2O6	(M+Cl)-



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**Figure S81: Mass spectral data for compound bis(2((E)-(3,4-dimethoxystyryl)phenyl) glutaramide.**

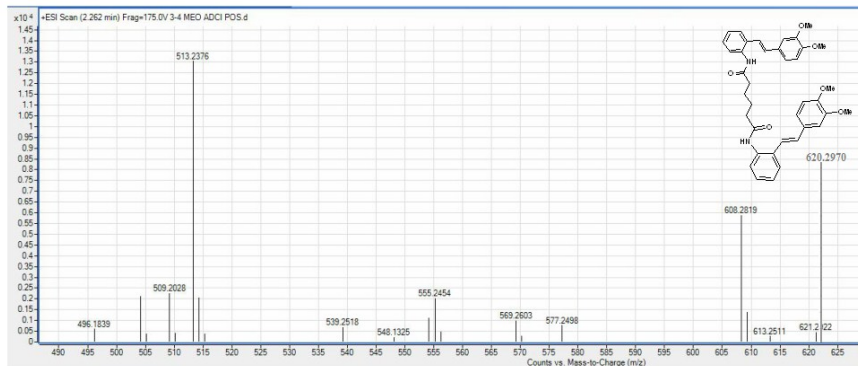
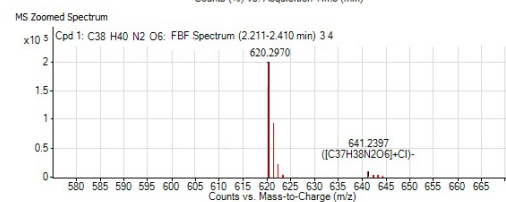
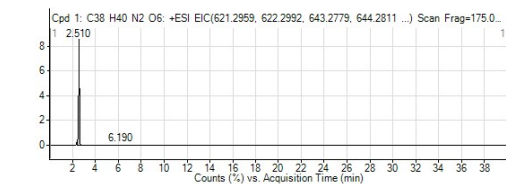
**Data File** 3-4 MEO ADCl POS.d **Sample Name** 3-4 MEO ADCl POS  
**Sample Type** Sample **Position** P1-A4  
**Instrument Name** Instrument 1 **User Name**  
**Acq Method** MARYAM SADAT POS.m **Acquired Time** 12-Jul-17 1:20:55 PM  
**IRM Calibration Status** Success **DA Method** default.m  
**Comment**

**Sample Group** **Info.**  
**Acquisition SW** 6200 series TOF/6500  
**Version** series Q-TOF B.05.01  
 (85125.3)

**Compound Table**

Compound Label	Data File	RT	Mass	Abund	Name	Formula	Tgt Mass	Diff	MFG Formula	MFG Diff (ppm)	DB Formula
Cpd 1: C38 H40 N2 O6		2.51	620.2889	157834		C38 H40 N2 O6	620.2886	0.48	C38 H40 N2 O6		C38 H40 N2 O6

Compound Label	Name	m/z	RT	Algorithm	Mass
Cpd 1: C38 H40 N2 O6		643.2785	2.51	Find By Formula	620.2889



**MS Spectrum Peak List**

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
621.2958			1	47876.59	C38H40N2O6	(M+H)+
622.2986			1	12430.74	C38H40N2O6	(M+H)+
623.3005			1	1250.77	C38H40N2O6	(M+H)+
643.2785			1	157833.83	C38H40N2O6	(M+Na)+

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**Figure S82: Mass spectral data for bis(2((E)-(3,4-dimethoxystyryl)phenyl)adipamide.**

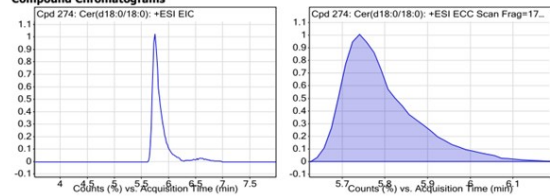
Data File: P33 4 MEO 5 CI POS.d  
 Sample Type: Sample  
 Instrument Name: Instrument 1  
 Acq Method: MARIAM SADAT POS.m  
 ERM Calibration Status: OK  
 Comment:

Sample Name: P33 4 MEO 5 CI POS  
 Fraction: P3-A2  
 User Name:  
 Acquired Time: 28-Sep-17 11:03:34 AM  
 DA Method: default

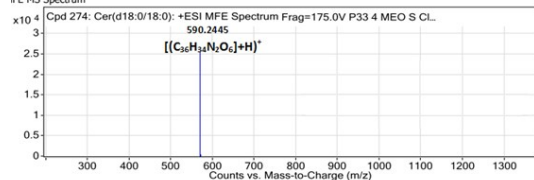
Sample Group: Info.  
 Acquisition SW: 6300 series TOF/MSD series  
 Version: Q-TOF 8.05.01 (83125.3)

Compound Label	Name	m/z	RT	Algorithm	Mass
Cpd 274: Cer(d18:0/18:0)	Cer(d18:0/18:0)	590.24	5.753	Find by Molecular Feature	590.24

Compound Chromatograms



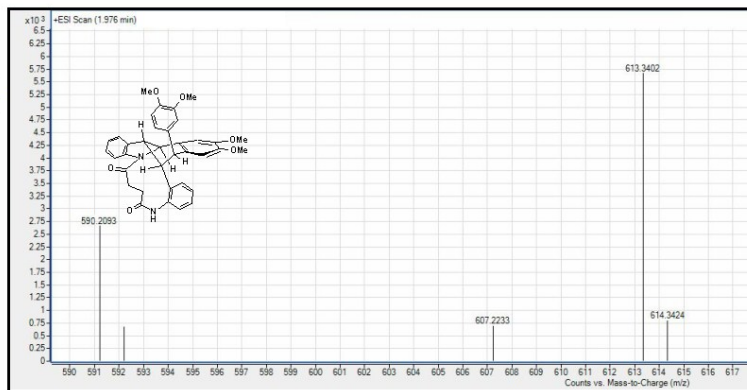
IFE MS Spectrum



MS Spectrum Peak List

m/z	Calc m/z	Diff(ppm)	z	Abund	Formula	Ion
590.24			1	31679.46	C <sub>36</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>	(M+H) <sup>+</sup>
591.25			1	6497.74	C <sub>36</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>	(M+H) <sup>+</sup>
592.25			1	679.08	C <sub>36</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>	(M+H) <sup>+</sup>

MS Spectrum



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Figure S83: Mass spectral data for compound (73) Scheme 17.