

# Synthesis and photophysical properties of $C_3$ -symmetric star-shaped molecules containing heterocycles such as furan, thiophene and oxazole

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<b>Figure S1</b> <sup>1</sup> H NMR spectrum of compound <b>2</b>	SI-2
<b>Figure S2</b> <sup>13</sup> C NMR spectrum of compound <b>2</b>	SI-2
<b>Figure S3</b> <sup>1</sup> H NMR spectrum of compound <b>11</b>	SI-3
<b>Figure S4</b> <sup>13</sup> C NMR spectrum of compound <b>11</b>	SI-3
<b>Figure S5</b> <sup>1</sup> H NMR spectrum of compound <b>12</b>	SI-4
<b>Figure S6</b> <sup>13</sup> C NMR spectrum of compound <b>12</b>	SI-4
<b>Figure S7</b> <sup>1</sup> H NMR spectrum of compound <b>6</b>	SI-5
<b>Figure S8</b> <sup>13</sup> C NMR spectrum of compound <b>6</b>	SI-5
<b>Figure S9</b> <sup>1</sup> H NMR spectrum of compound <b>14</b>	SI-6
<b>Figure S10</b> <sup>13</sup> C NMR spectrum of compound <b>14</b>	SI-6
<b>Figure S11</b> <sup>1</sup> H NMR spectrum of compound <b>19</b>	SI-7
<b>Figure S12</b> <sup>13</sup> C NMR spectrum of compound <b>19</b>	SI-7
<b>Figure S13</b> <sup>1</sup> H NMR spectrum of compound <b>20</b>	SI-8
<b>Figure S14</b> <sup>13</sup> C NMR spectrum of compound <b>20</b>	SI-8
<b>Figure S15</b> <sup>1</sup> H NMR spectrum of compound <b>15</b>	SI-9
<b>Figure S16</b> <sup>13</sup> C NMR spectrum of compound <b>15</b>	SI-9
<b>Figure S17</b> <sup>1</sup> H NMR spectrum of compound <b>18</b>	SI-10
<b>Figure S18</b> <sup>13</sup> C NMR spectrum of compound <b>18</b>	SI-10
<b>Figure S19</b> <sup>1</sup> H NMR spectrum of compound <b>4</b>	SI-11
<b>Figure S20</b> <sup>13</sup> C NMR spectrum of compound <b>4</b>	SI-11

Figure S1 <sup>1</sup>H NMR spectrum of compound 2

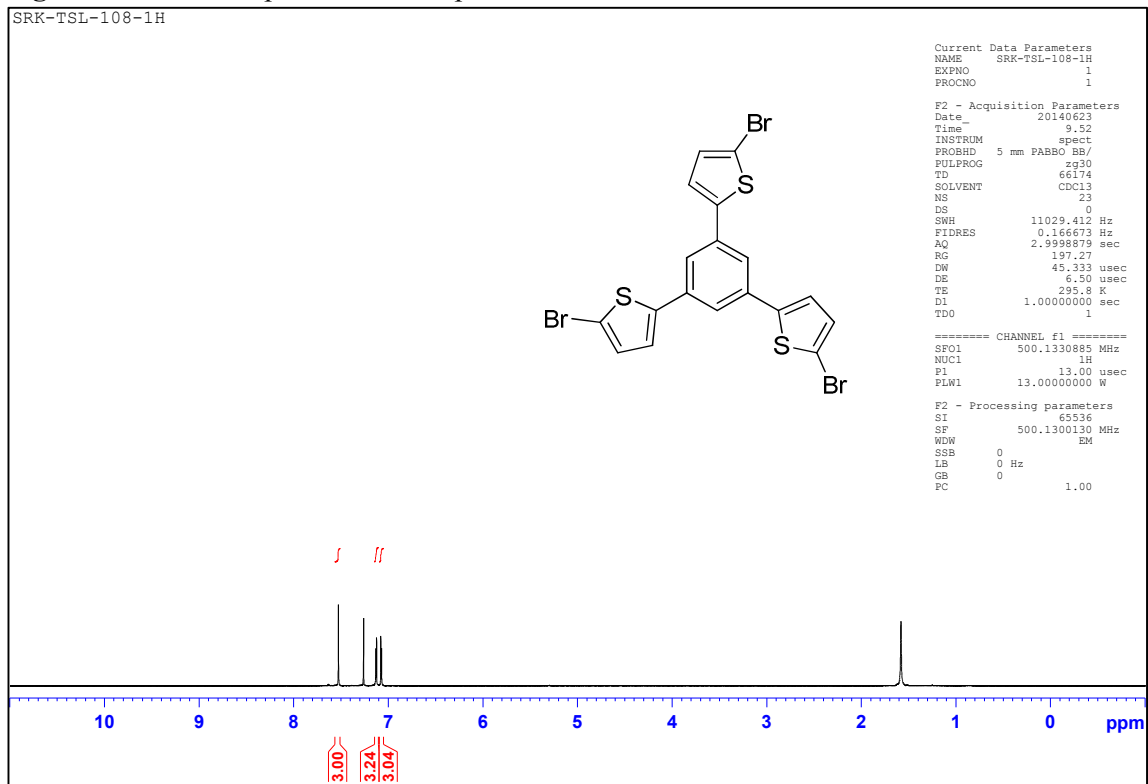


Figure S2 <sup>13</sup>C NMR spectrum of compound 2

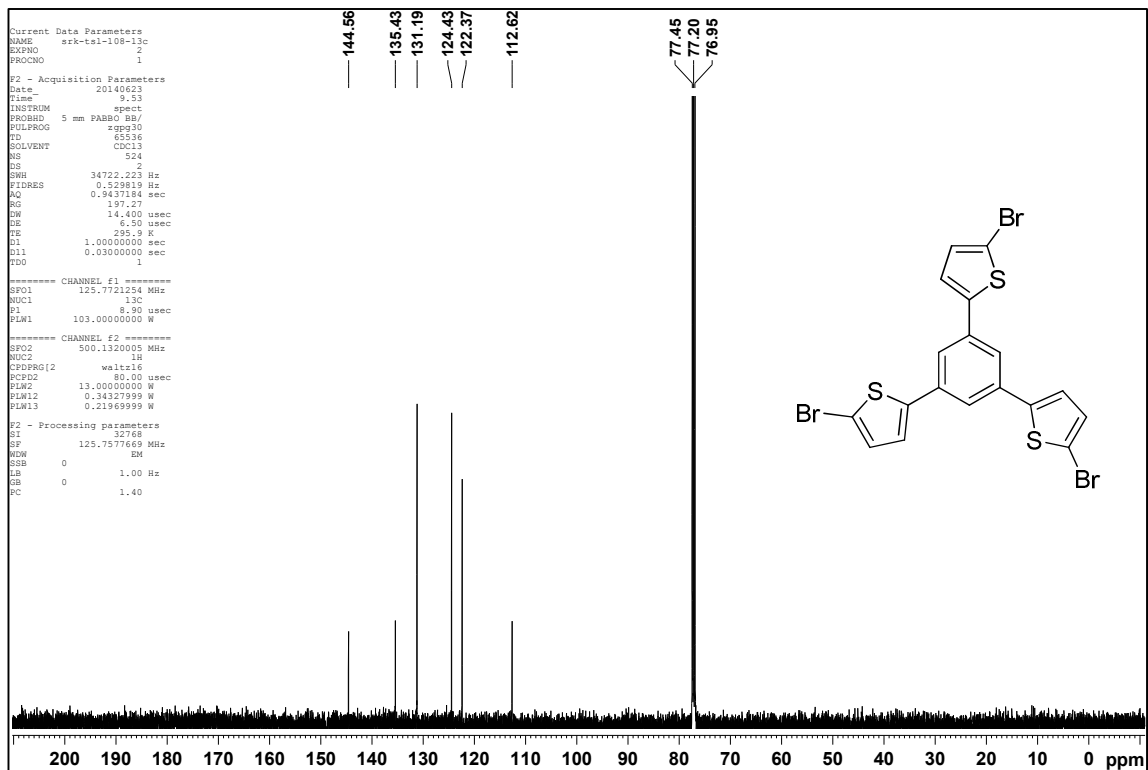


Figure S3 <sup>1</sup>H NMR spectrum of compound 11

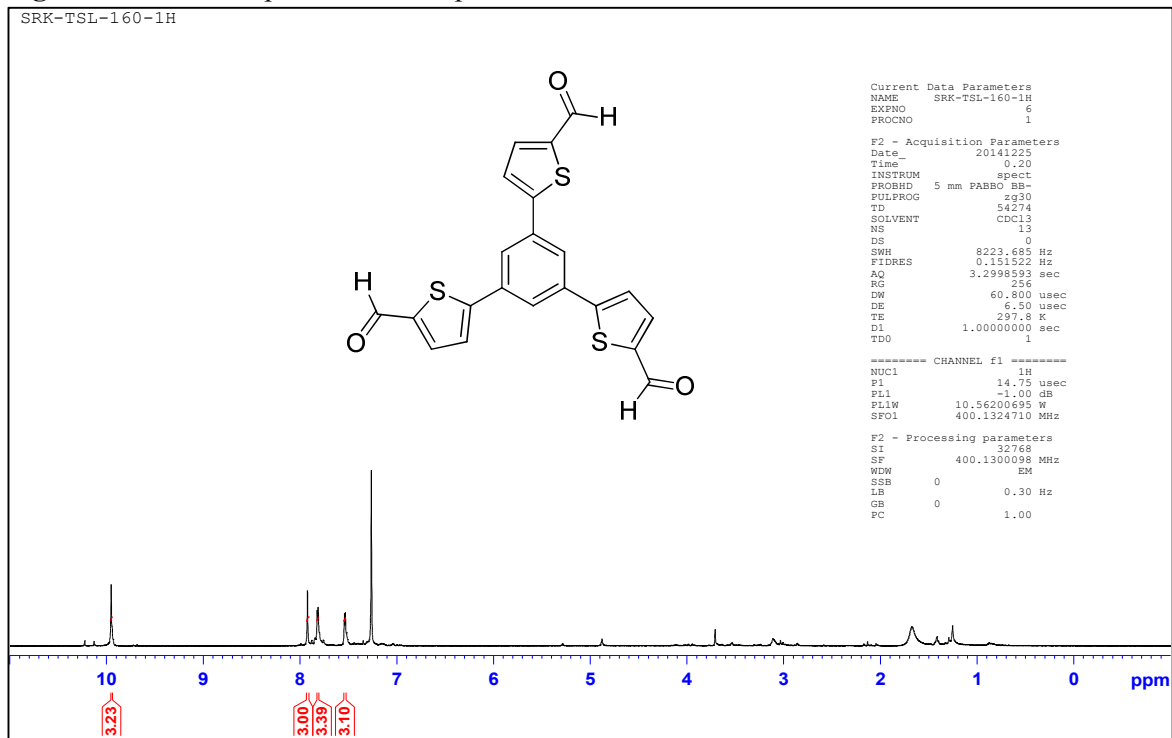


Figure S4 <sup>13</sup>C NMR spectrum of compound 11

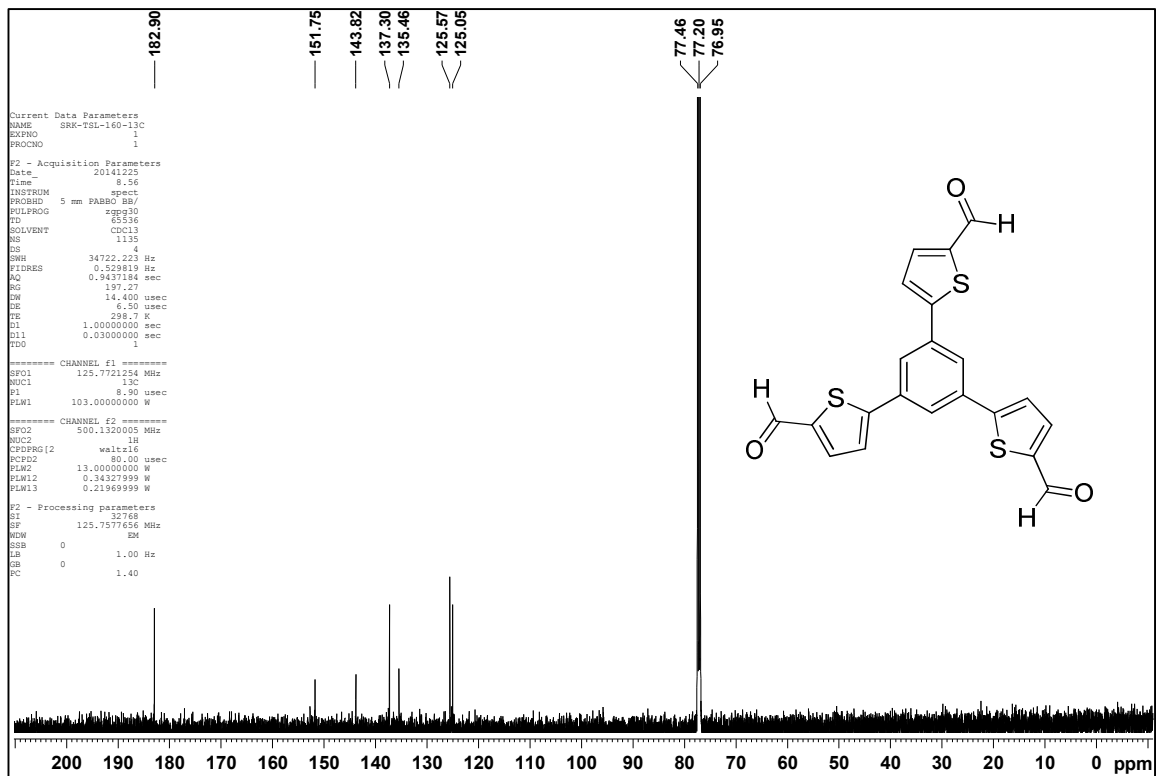


Figure S5 <sup>1</sup>H NMR spectrum of compound12

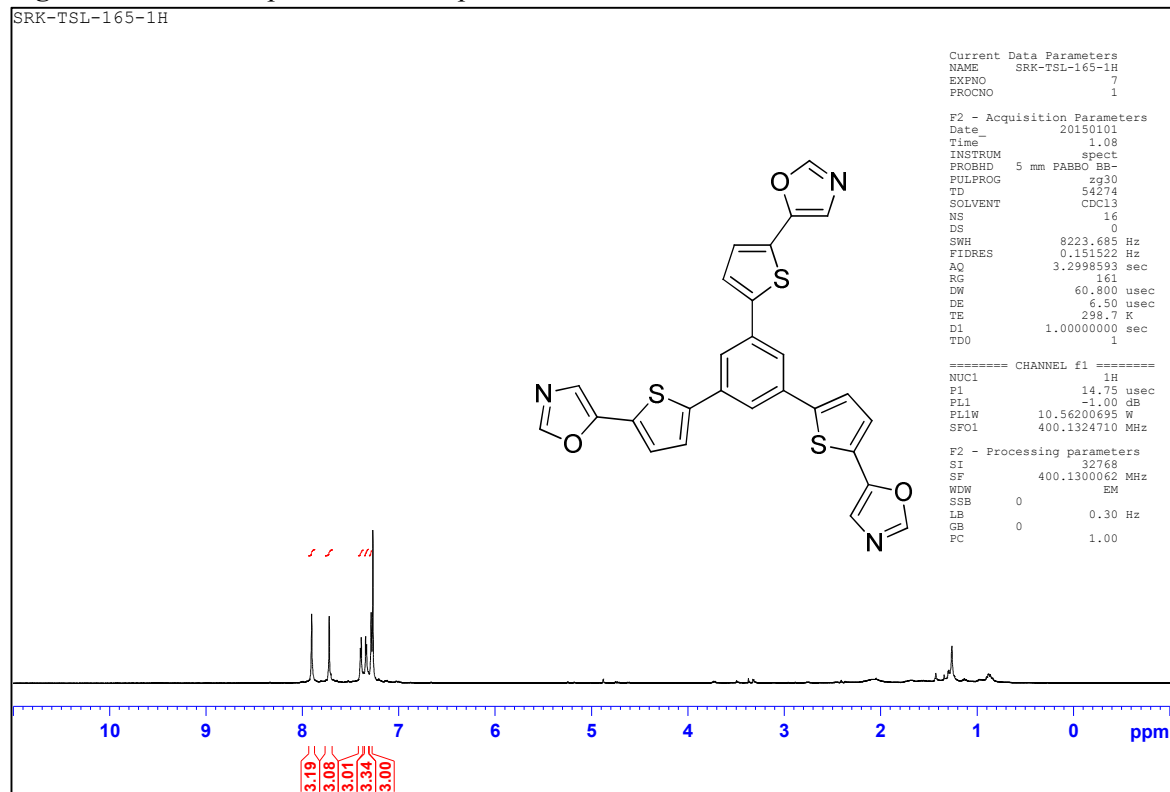


Figure S6 <sup>13</sup>C NMR spectrum of compound12

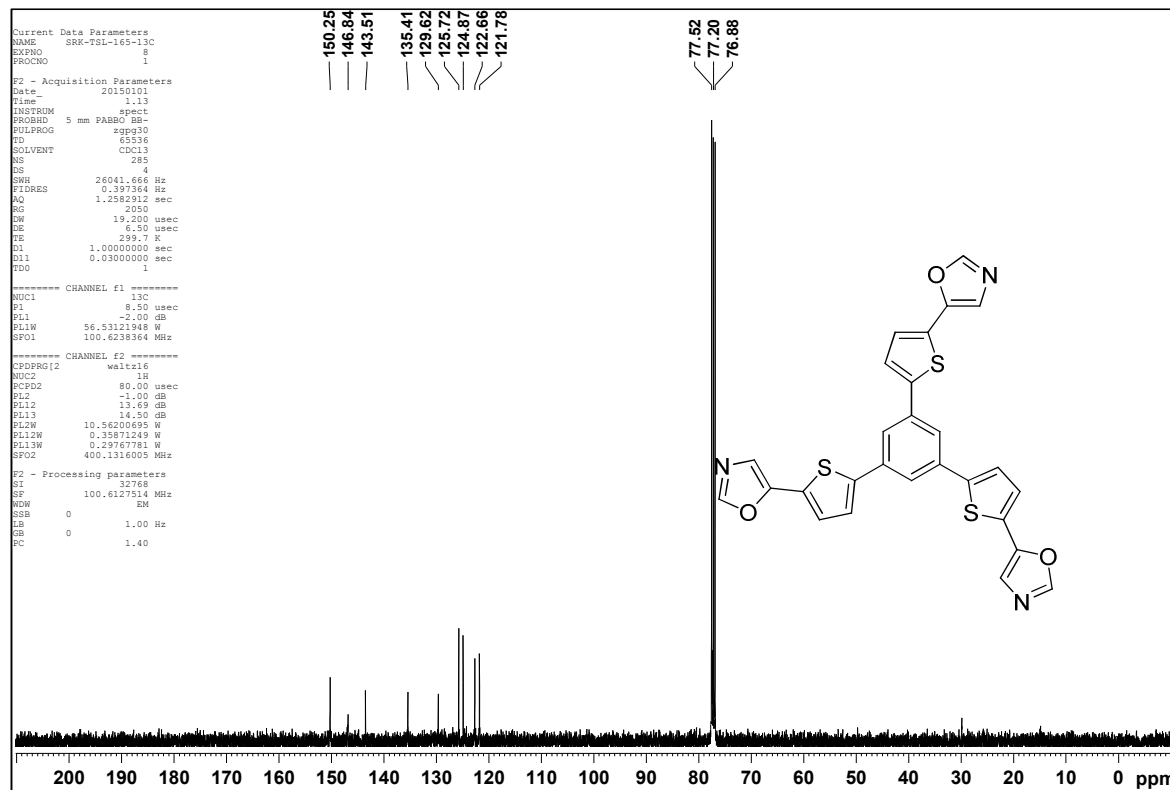


Figure S7 <sup>1</sup>H NMR spectrum of compound 6

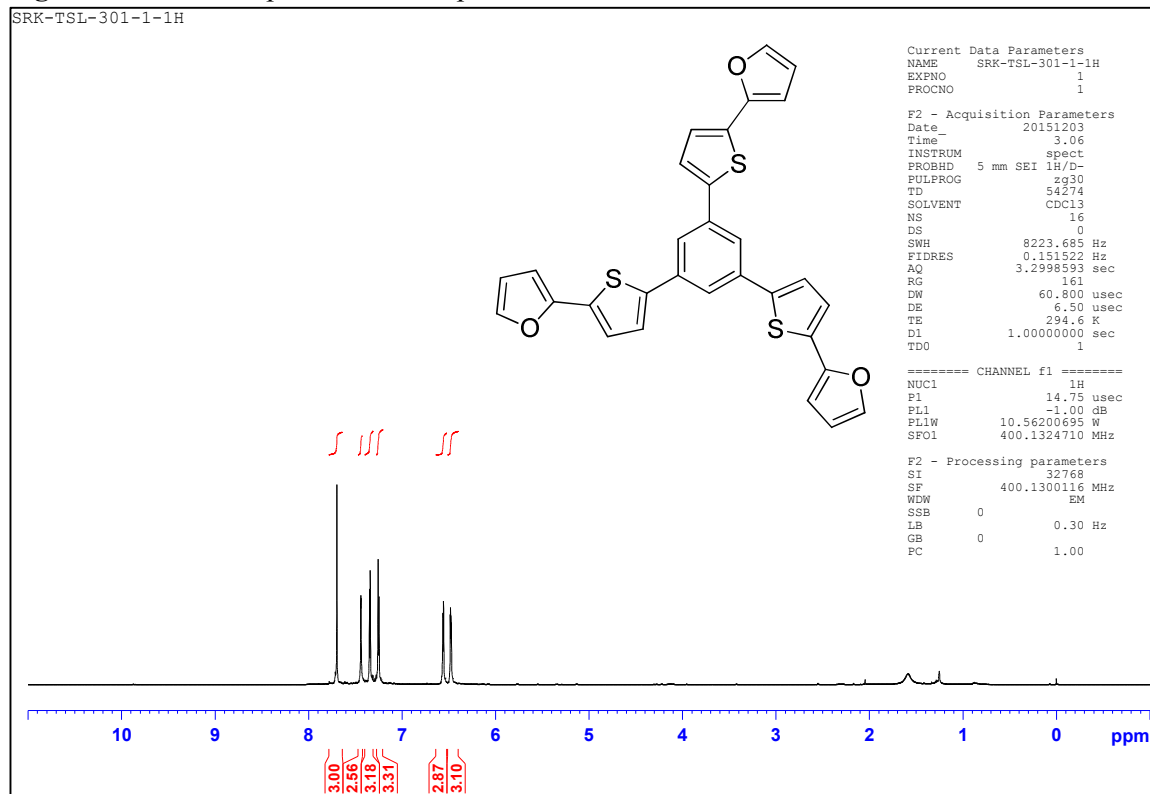


Figure S8 <sup>13</sup>C NMR spectrum of compound 6

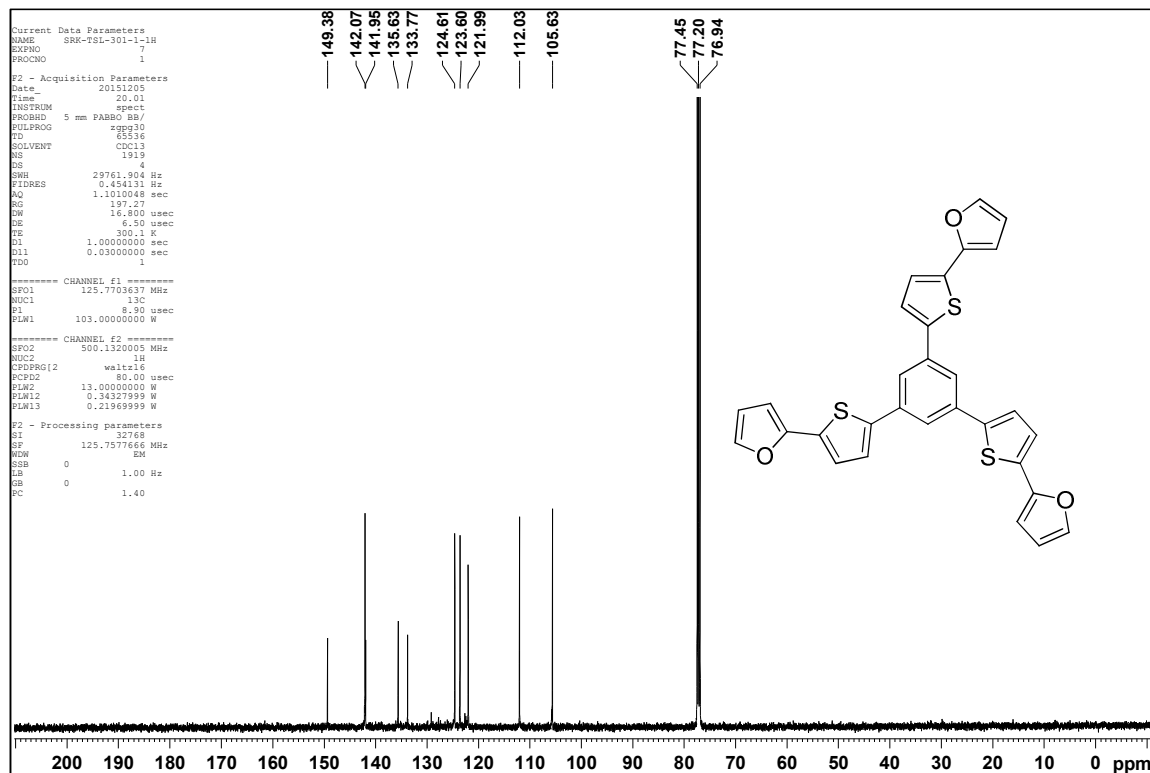


Figure S9 <sup>1</sup>H NMR spectrum of compound 14

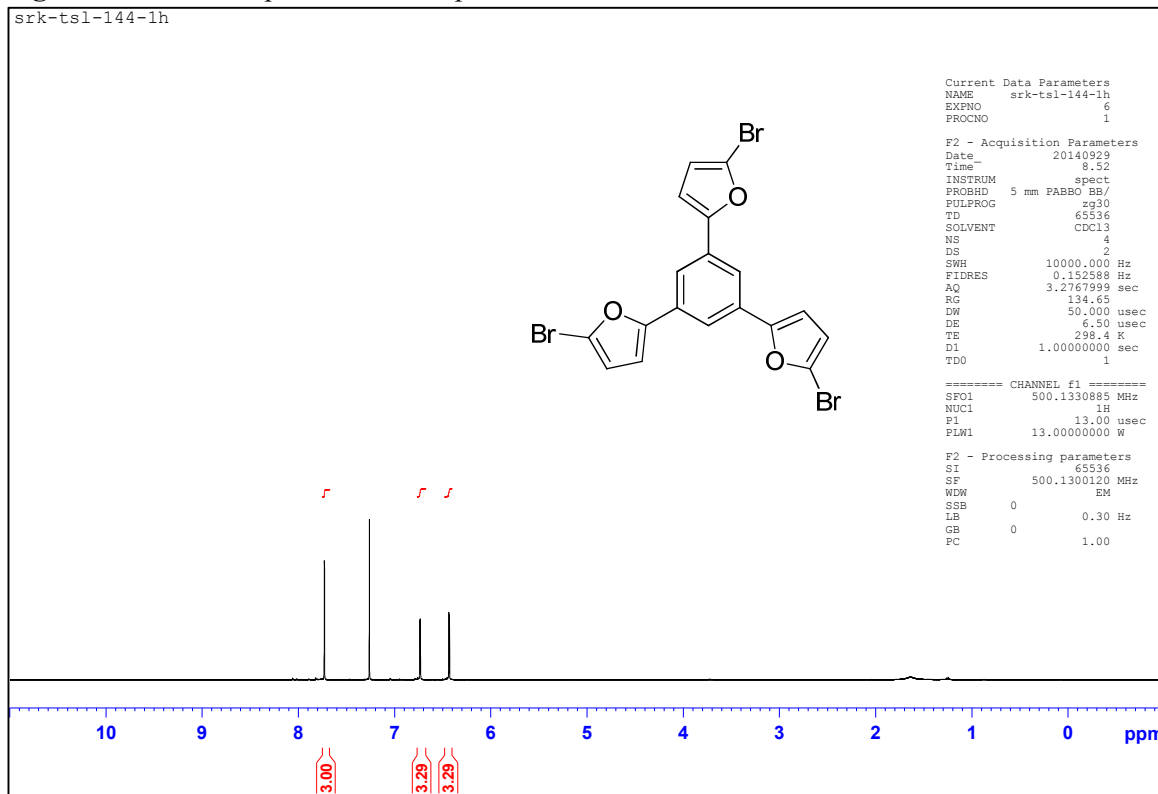


Figure S10 <sup>13</sup>C NMR spectrum of compound 14

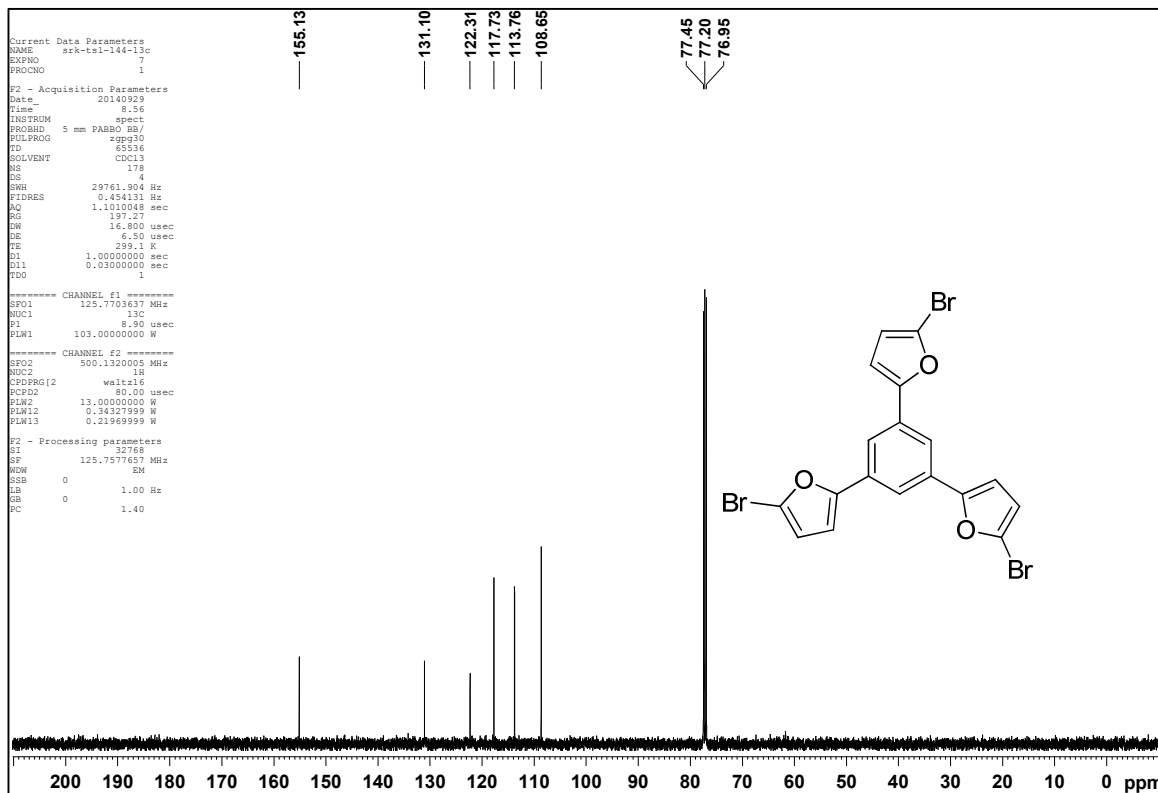


Figure S11 <sup>1</sup>H NMR spectrum of compound 19

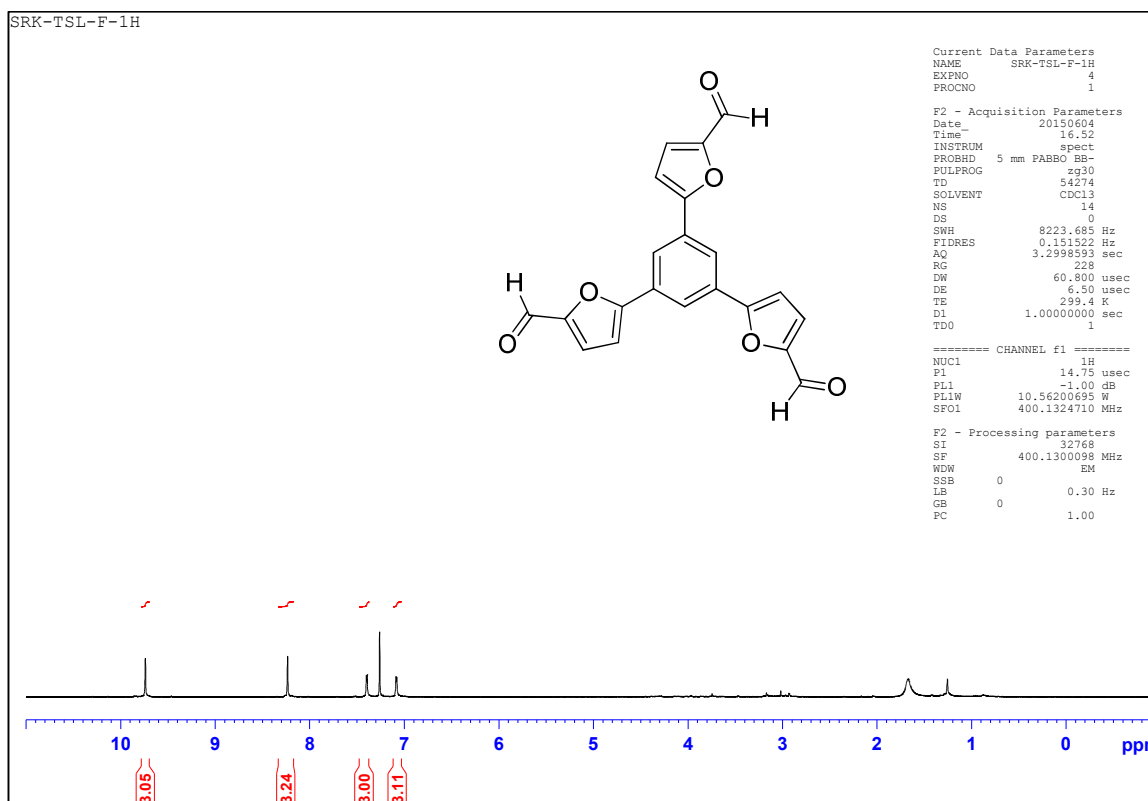


Figure S12 <sup>13</sup>C NMR spectrum of compound 19

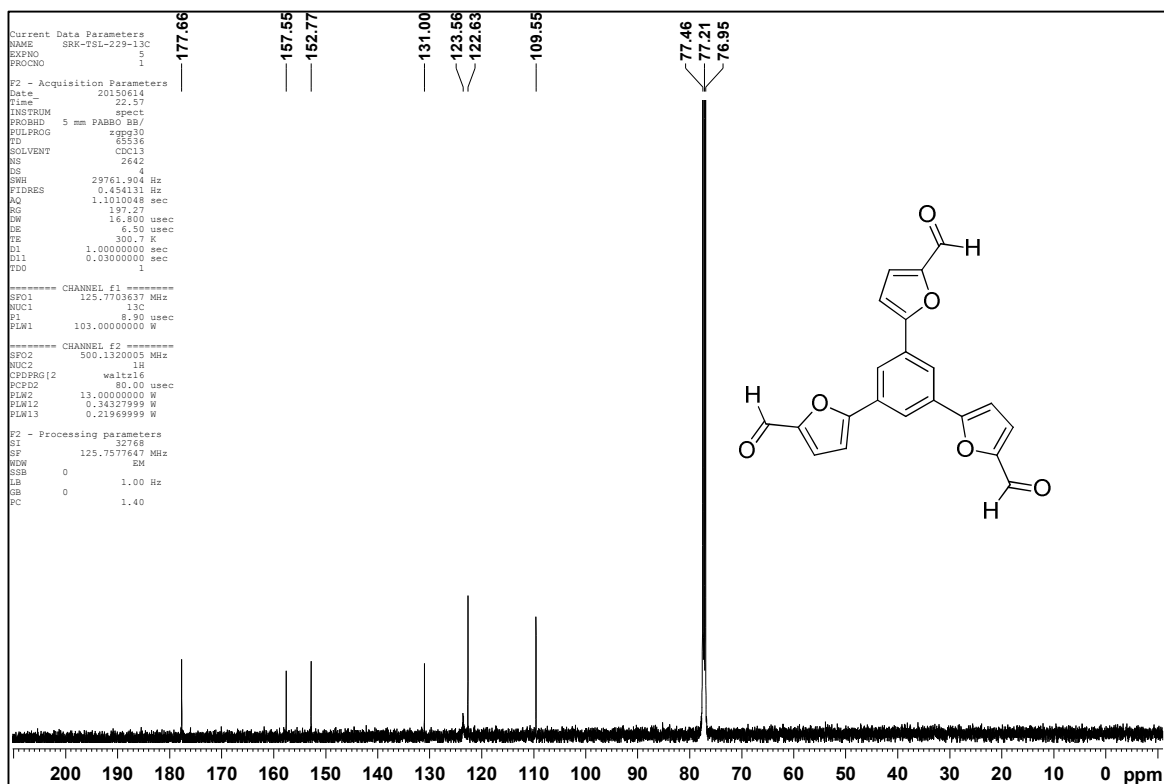


Figure S13 <sup>1</sup>H NMR spectrum of compound 20

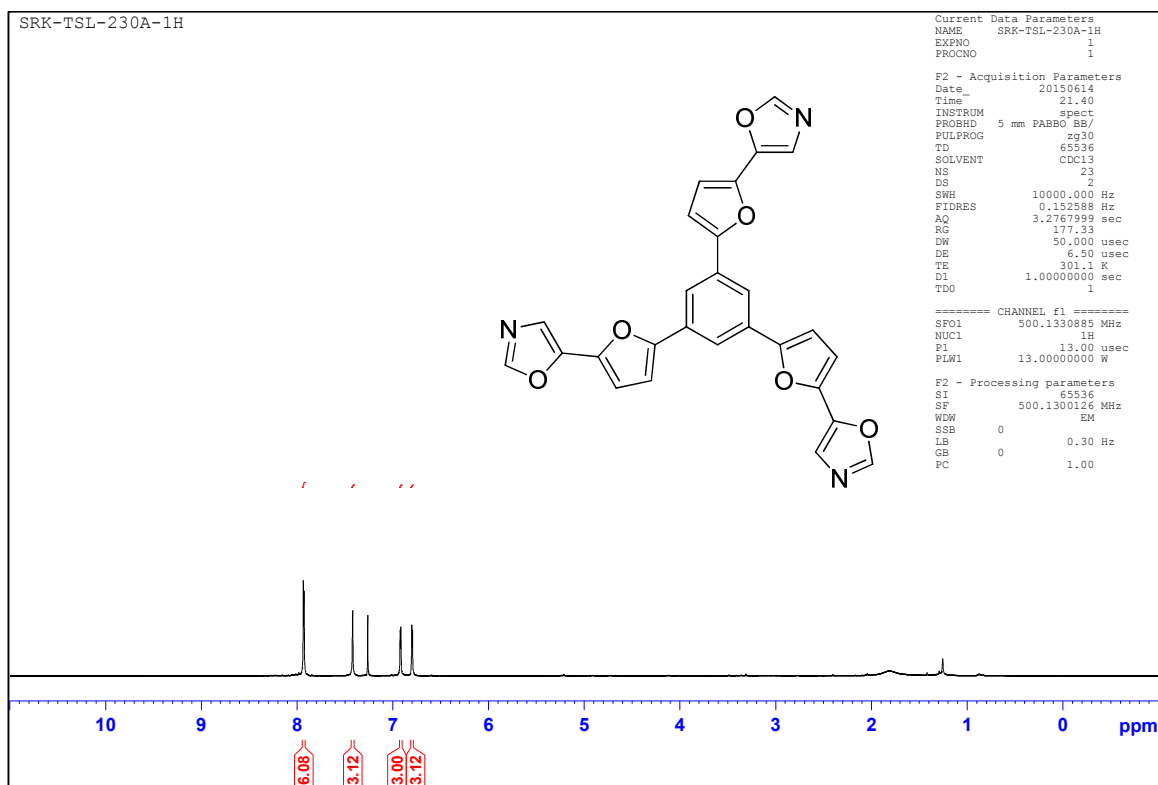


Figure S14 <sup>13</sup>C NMR spectrum of compound 20

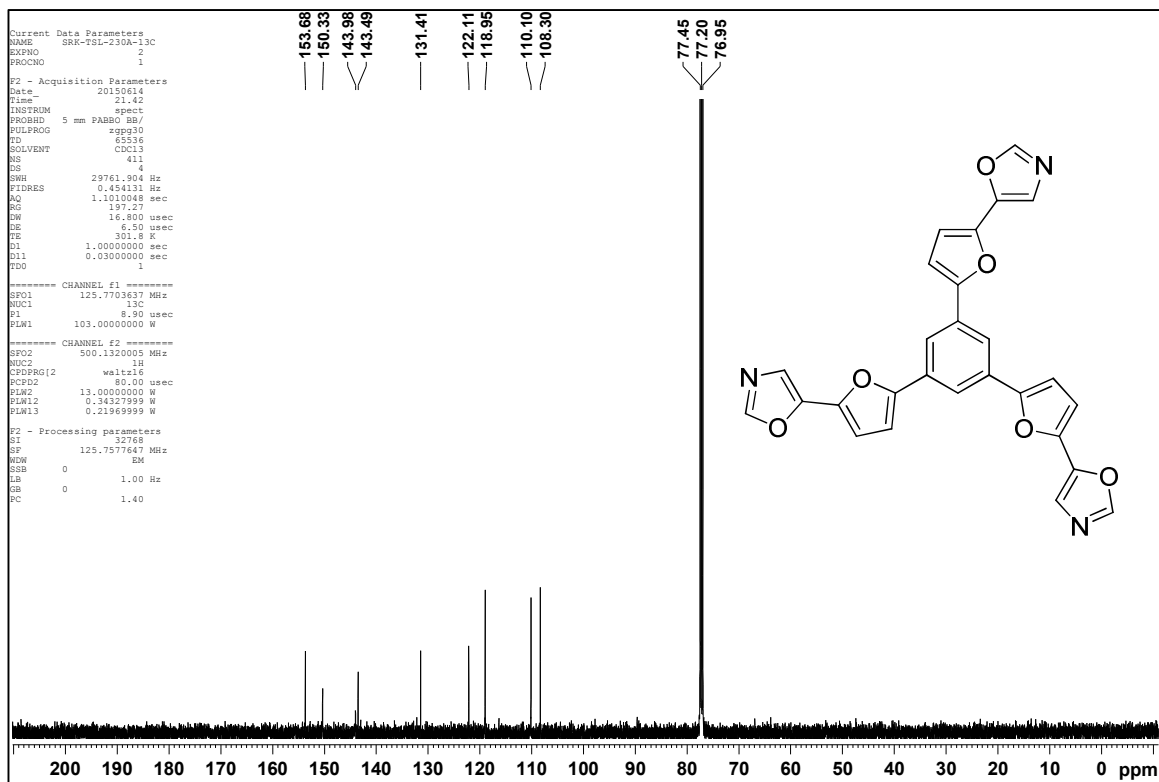




Figure S15 <sup>1</sup>H NMR spectrum of compound 15

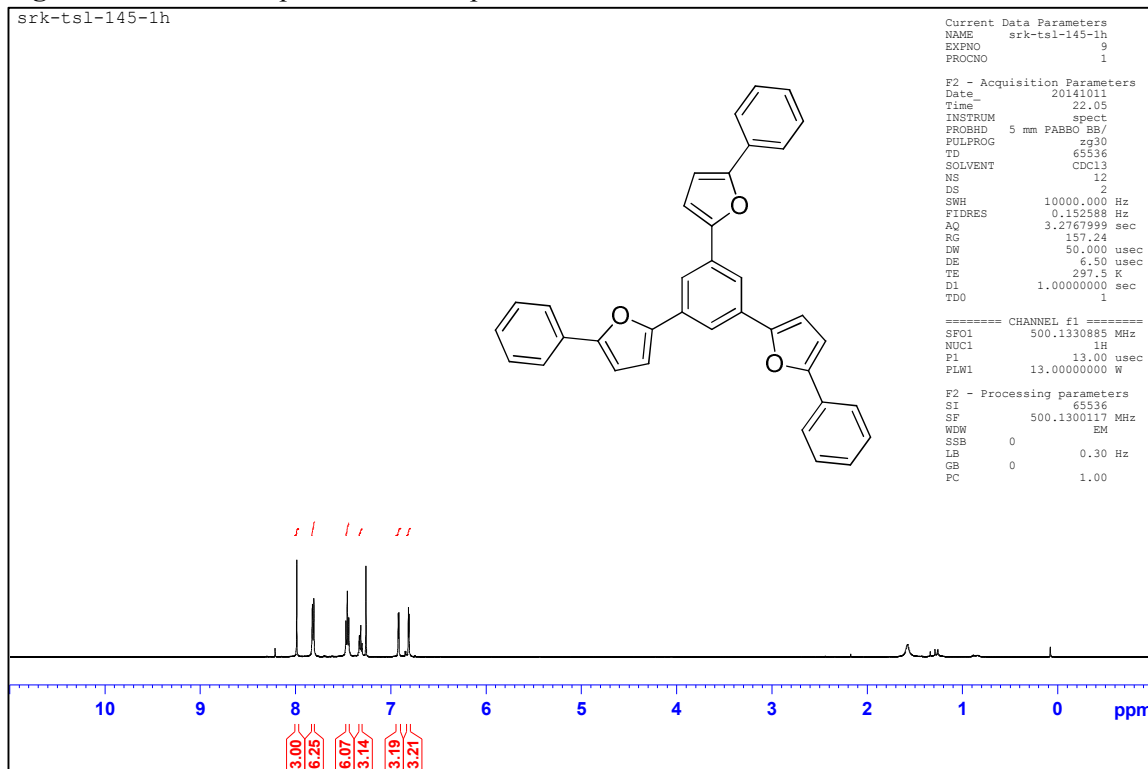


Figure S16 <sup>13</sup>C NMR spectrum of compound 15

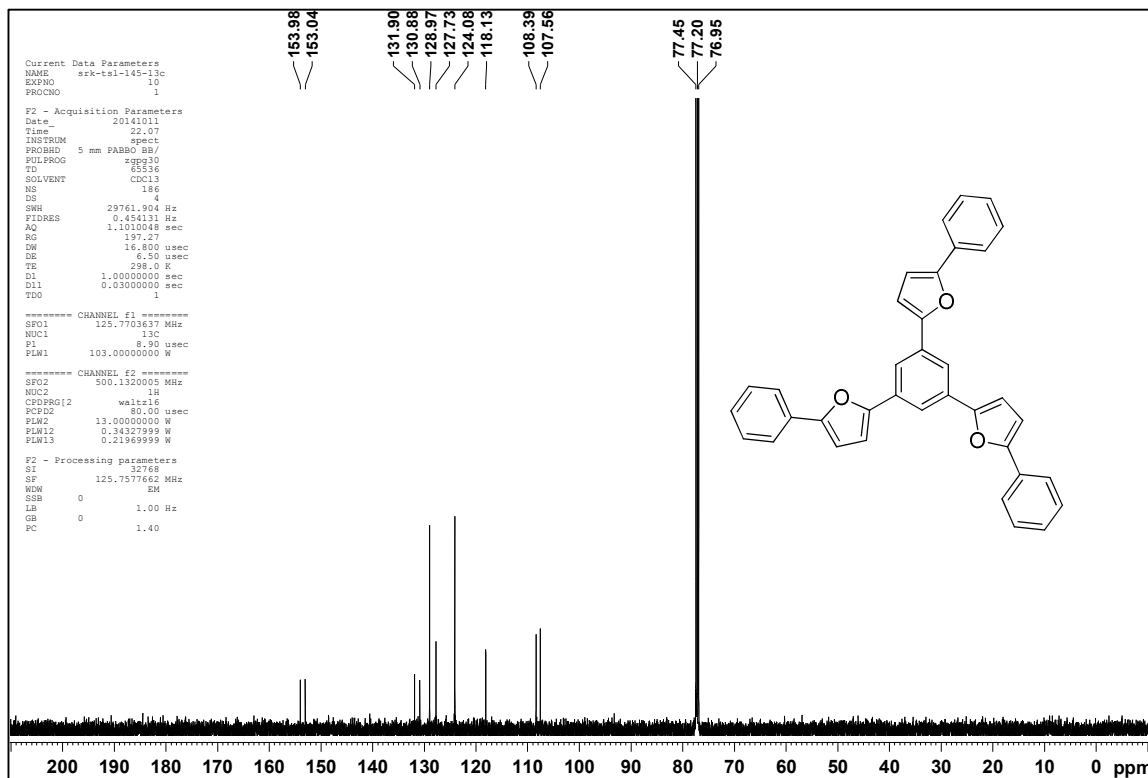


Figure S17 <sup>1</sup>H NMR spectrum of compound 18

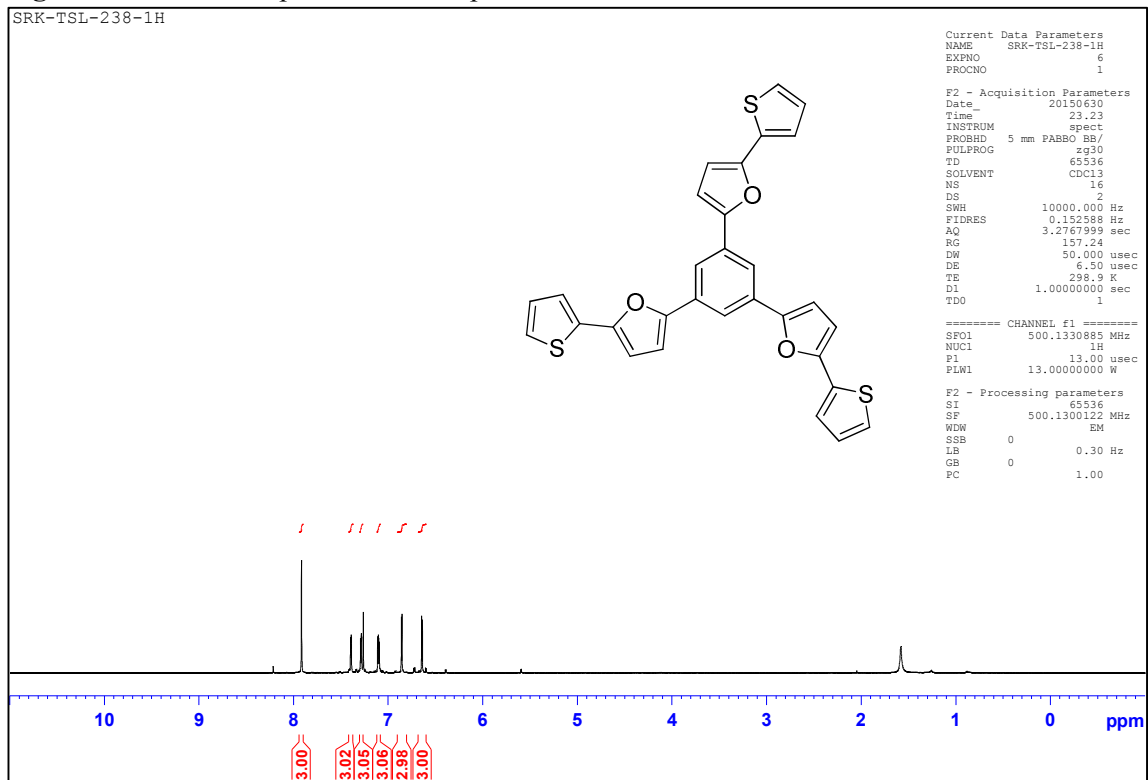


Figure S18 <sup>13</sup>C NMR spectrum of compound 18

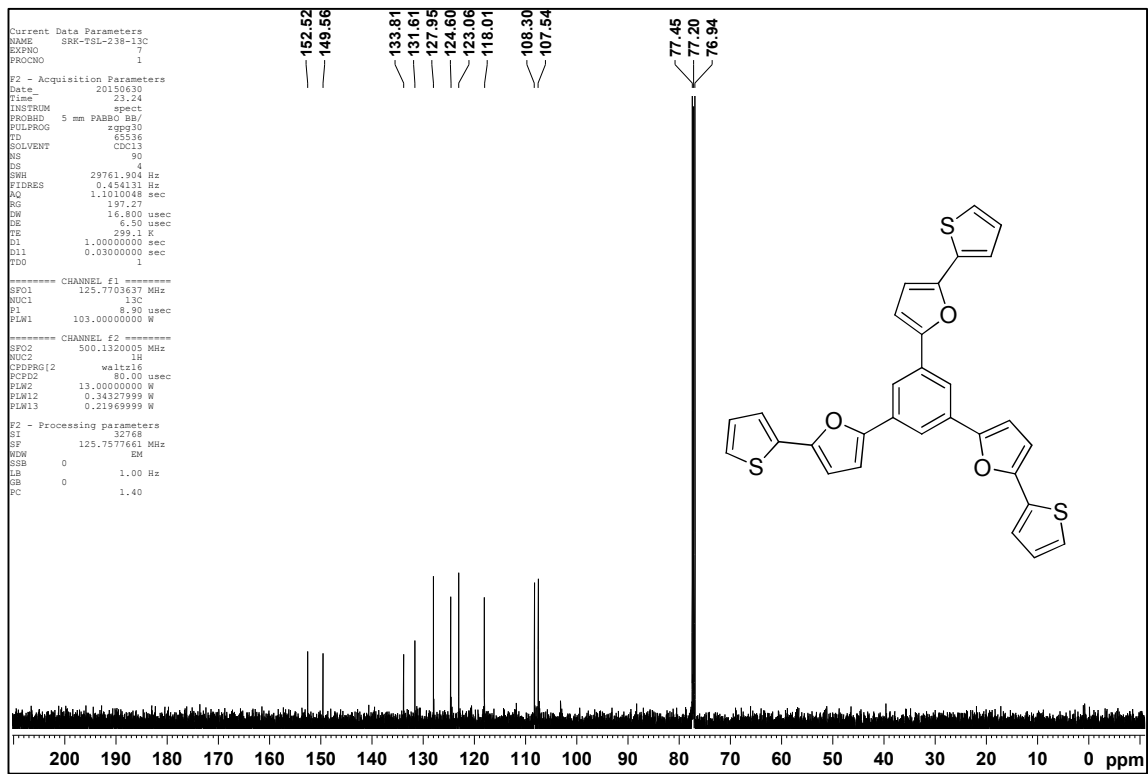


Figure S19 <sup>1</sup>H NMR spectrum of compound 4

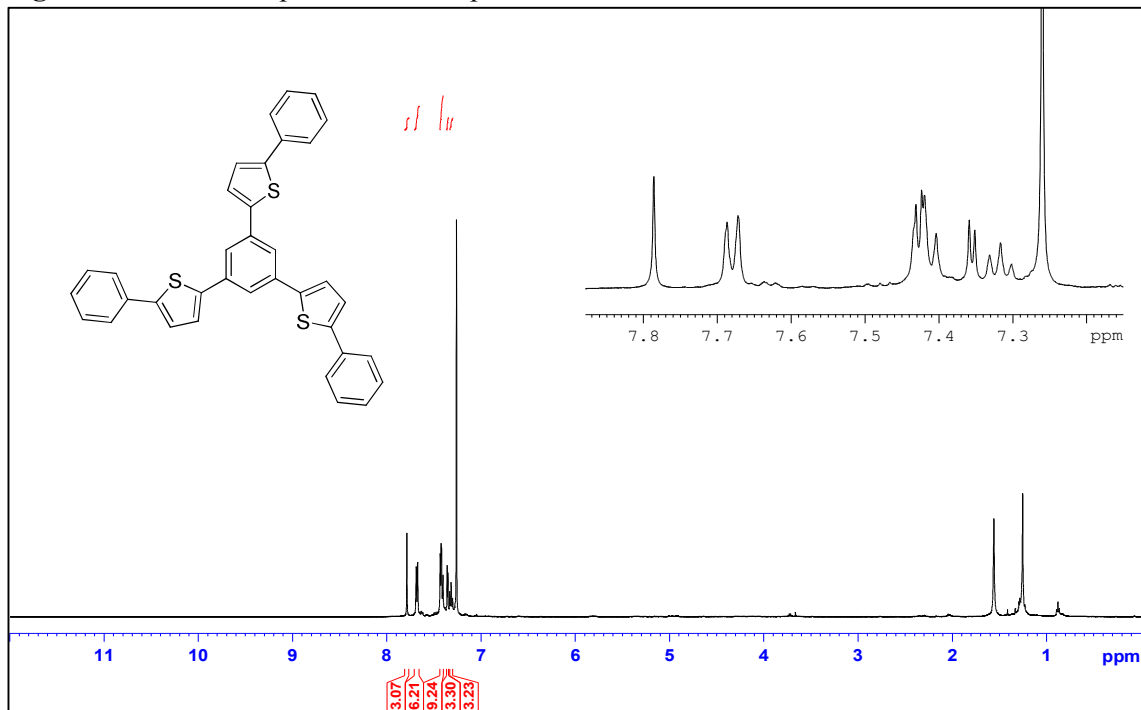


Figure S20 <sup>13</sup>C NMR spectrum of compound 4

