



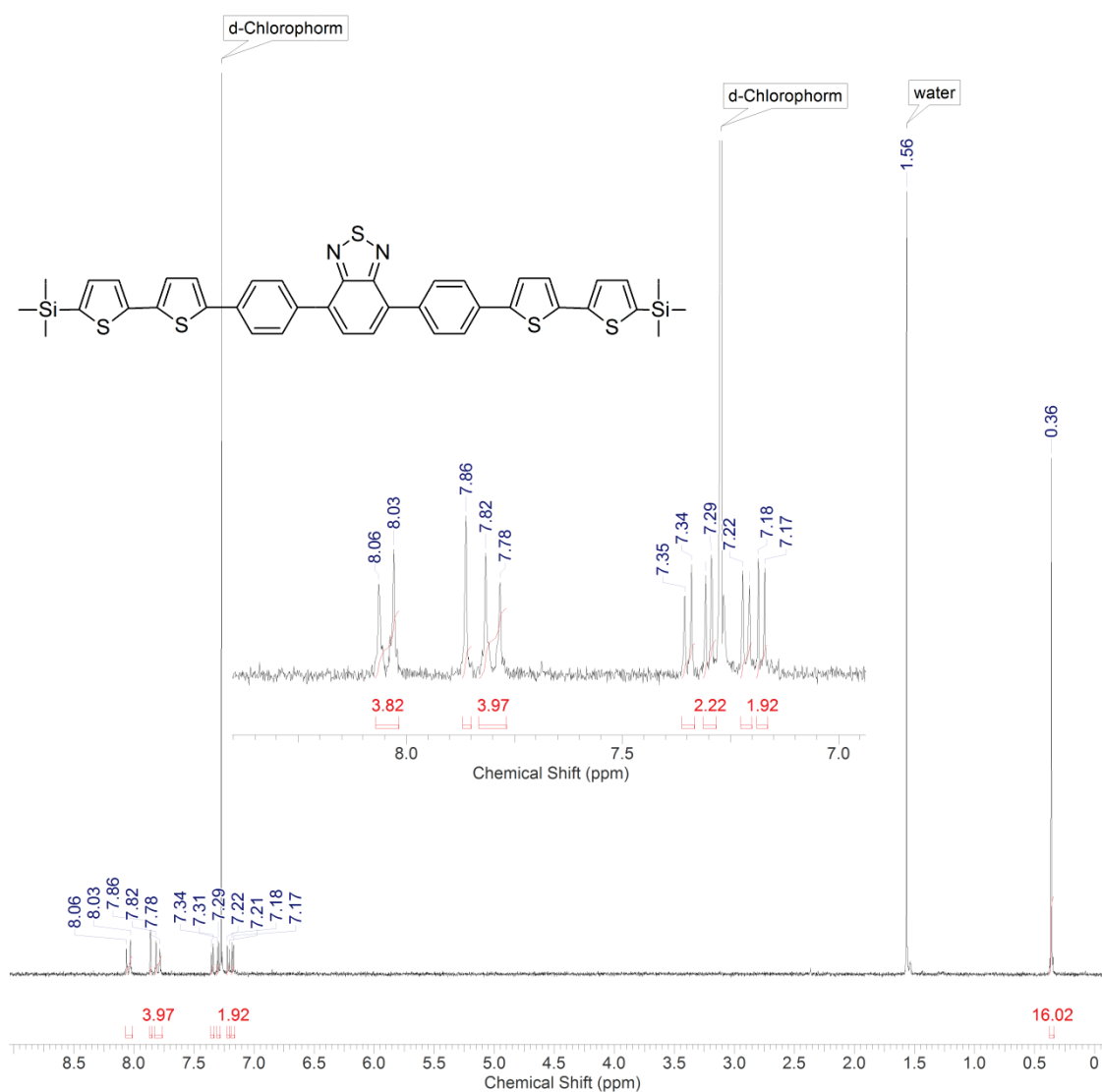
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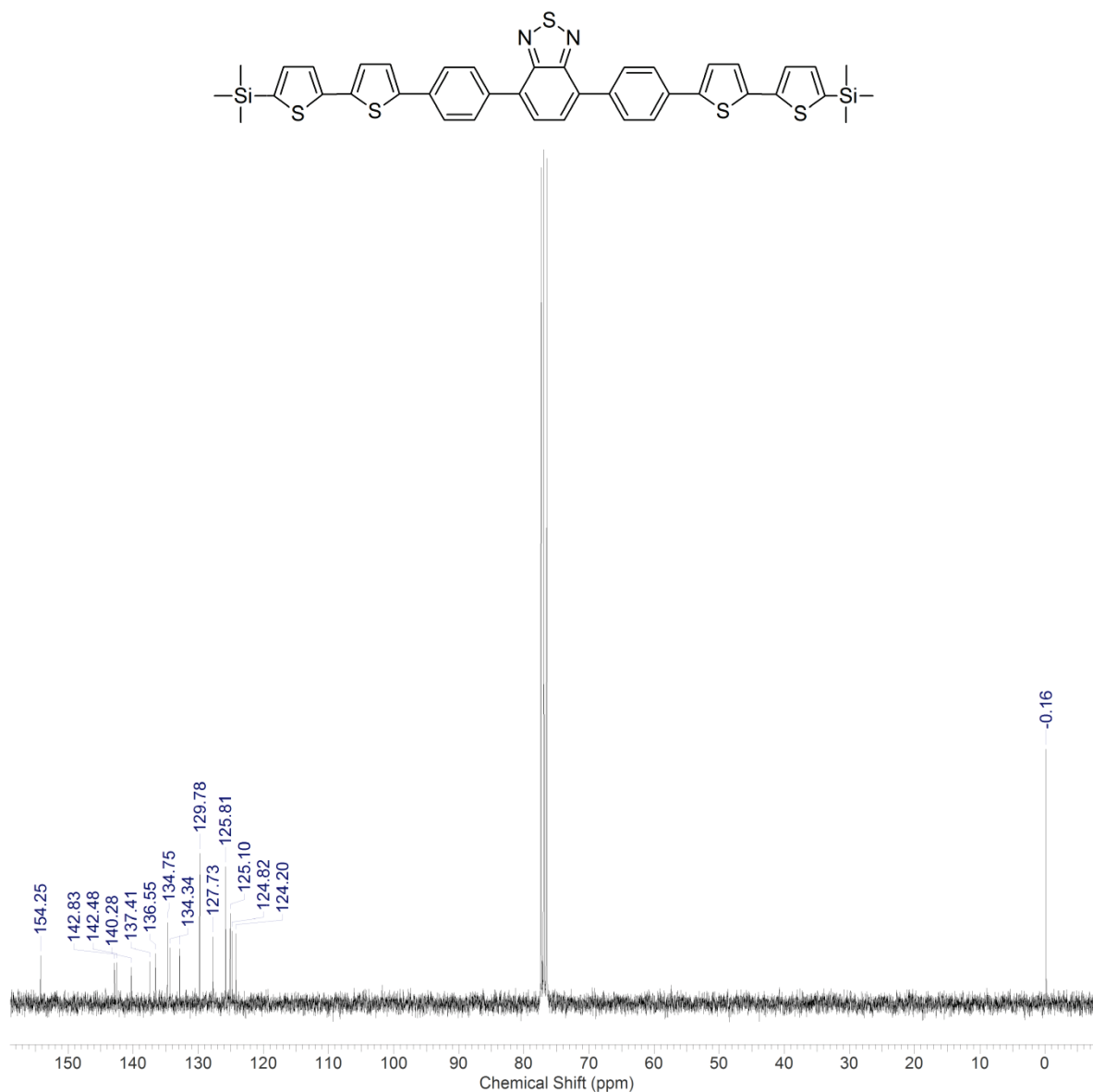
**Highly luminescent crystals of a novel linear π -conjugated thio-
phene-phenylene co-oligomer with benzothiadiazole fragment**

**Valery A. Postnikov, Nataliya I. Sorokina, Artem A. Kulishov, Maria S.
Lyasnikova, Vadim V. Grebenev, Alexey E. Voloshin, Oleg V. Borshchev,
Maxim S. Skorotetcky, Nikolay M. Surin, Evgeniya A. Svidchenko and Sergei A.
Ponomarenko**

S1. ^1H , ^{13}C , ^{29}Si NMR spectra

No.	(ppm)	Value	Absolute Value	Non-Negative Value	No.	(ppm)	Height
1	[0.3412 .. 0.3780]	16.02052689	8.43156800e+6	16.02052689	1	0.36	0.5735
2	[7.1644 .. 7.1889]	1.92191923	1.01150187e+6	1.92191923	2	1.56	0.8683
3	[7.1998 .. 7.2256]	2.02759480	1.06711875e+6	2.02759480	3	7.17	0.0340
4	[7.2828 .. 7.3128]	2.22385597	1.17041050e+6	2.22385597	4	7.18	0.0369
5	[7.3318 .. 7.3618]	1.97156715	1.03763144e+6	1.97156715	5	7.21	0.0286
6	[7.7674 .. 7.8314]	3.97203255	2.09047200e+6	3.97203255	6	7.22	0.0332
7	[7.8491 .. 7.8695]	1.82477283	9.60373937e+5	1.82477283	7	7.29	0.0381
8	[8.0166 .. 8.0710]	3.82225394	2.01164387e+6	3.82225394	8	7.31	0.0319
					9	7.34	0.0351
					10	7.35	0.0254
					11	7.78	0.0297
					12	7.82	0.0386
					13	7.86	0.0501
					14	8.03	0.0397
					15	8.06	0.0292

Figure S1.1. ^1H NMR spectrum of $(\text{TMS-2T-Ph})_2\text{-BTD}$.



No.	(ppm)	Height
1	-0.16	0.2979
2	124.20	0.0815
3	124.82	0.0848
4	125.10	0.1053
5	125.81	0.1603
6	127.73	0.0781
7	129.78	0.1756
8	132.84	0.0641
9	134.34	0.0650
10	134.75	0.0949
11	136.55	0.0583
12	137.41	0.0489
13	140.28	0.0426
14	142.48	0.0480
15	142.83	0.0472
16	154.25	0.0564

Figure S1.2. ¹³C NMR spectrum of (TMS-2T-Ph)₂-BTD.

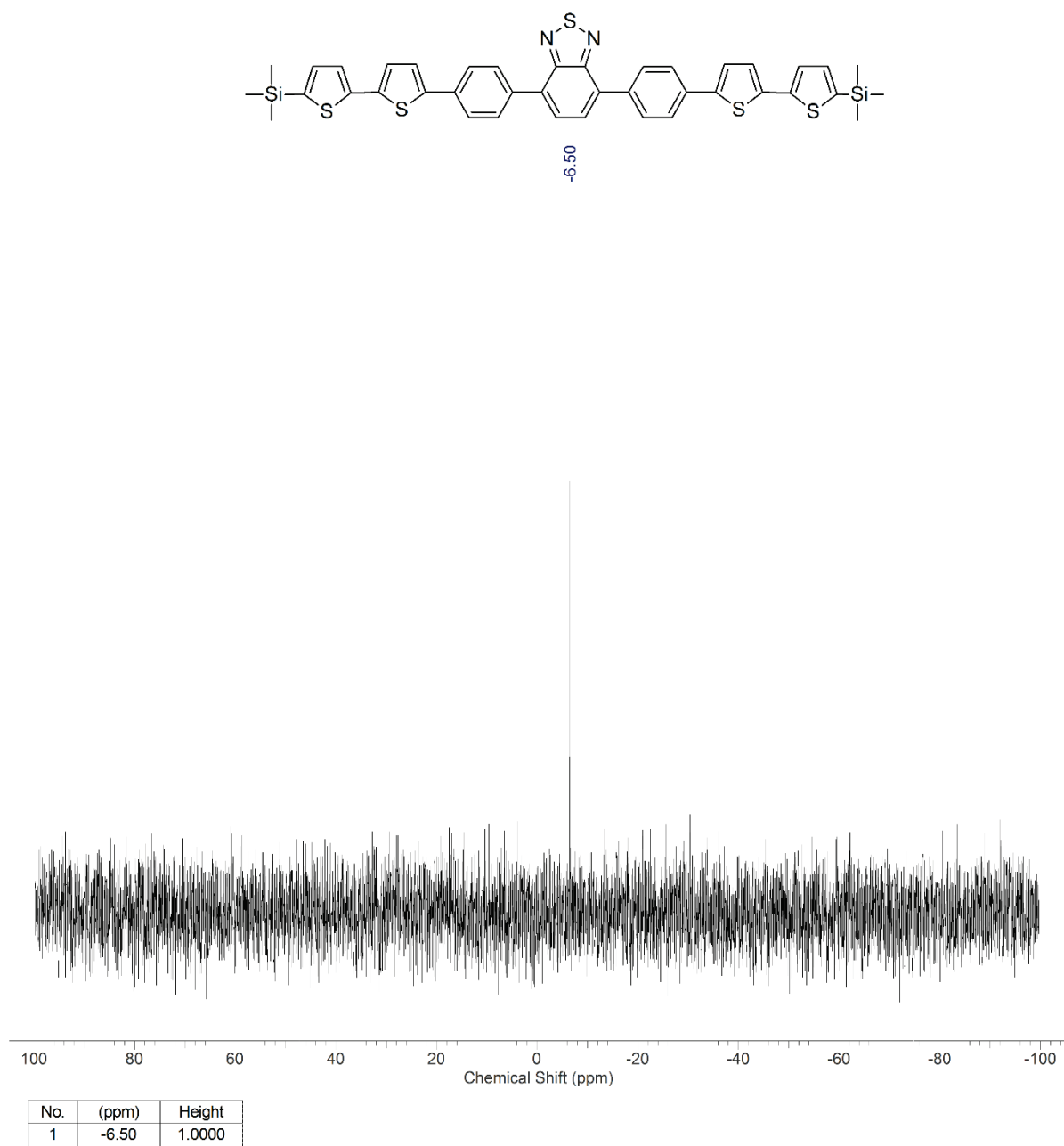
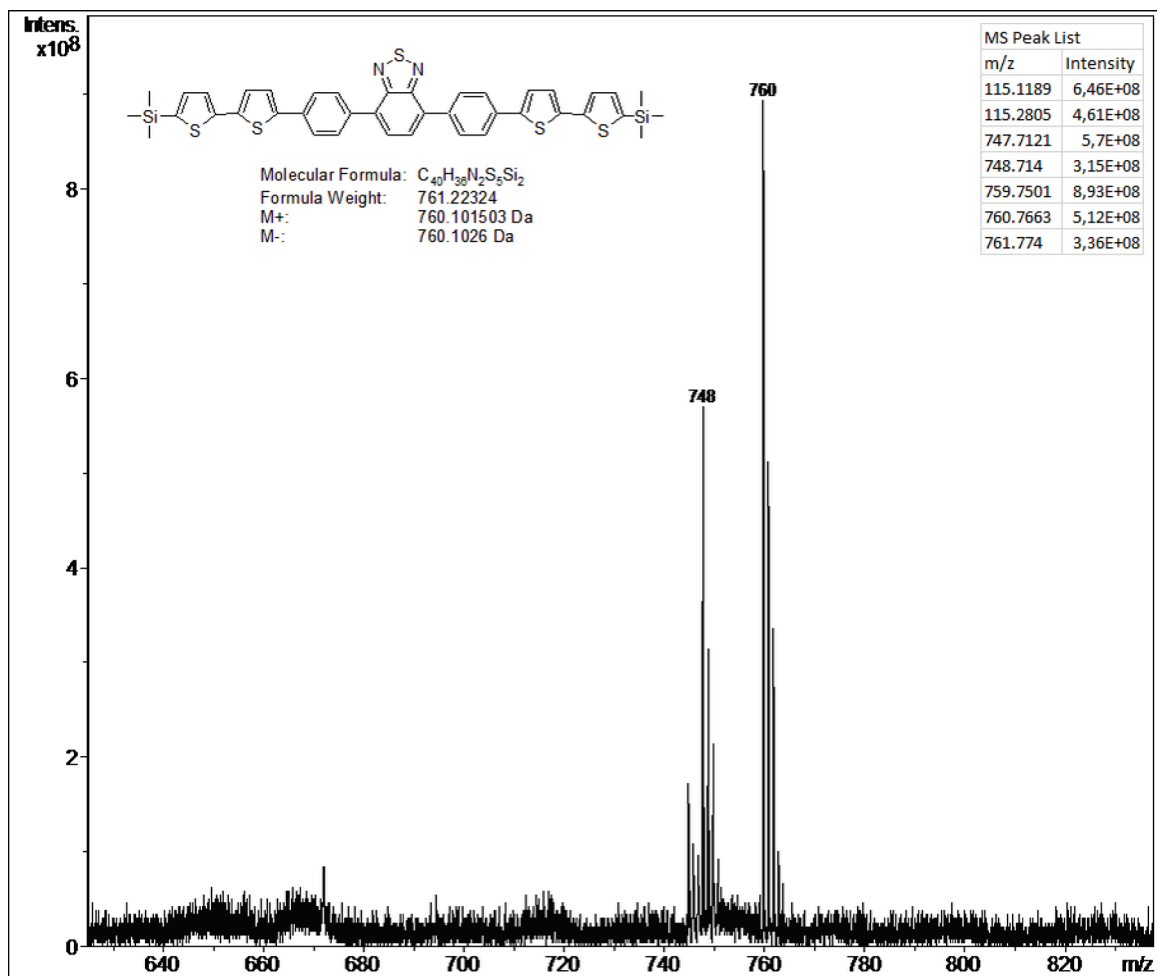


Figure S1.3. ²⁹Si NMR spectrum of (TMS-2T-Ph)₂-BTD.

S2. Mass Spectrometry

Figure S2. MALDI-MS spectrum of (TMS-2T-Ph)₂-BTD.

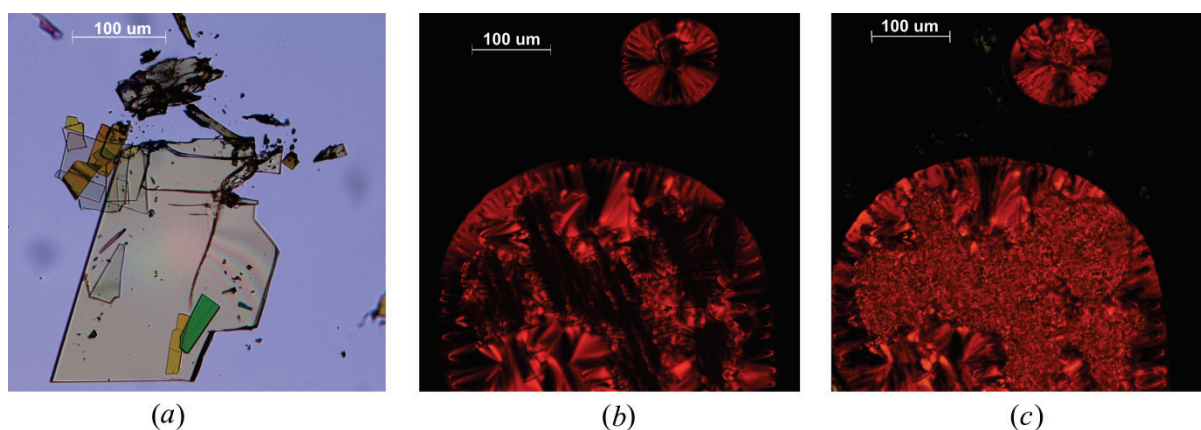
S3. Polarising microphotographs of (TMS-2T-Ph)₂-BTD in various phases and DSC studies

Figure S3.1. Polarising microphotographs of (TMS-2T-Ph)₂-BTD at different temperatures: 25°C (a), 300°C (b) and 220°C (c).

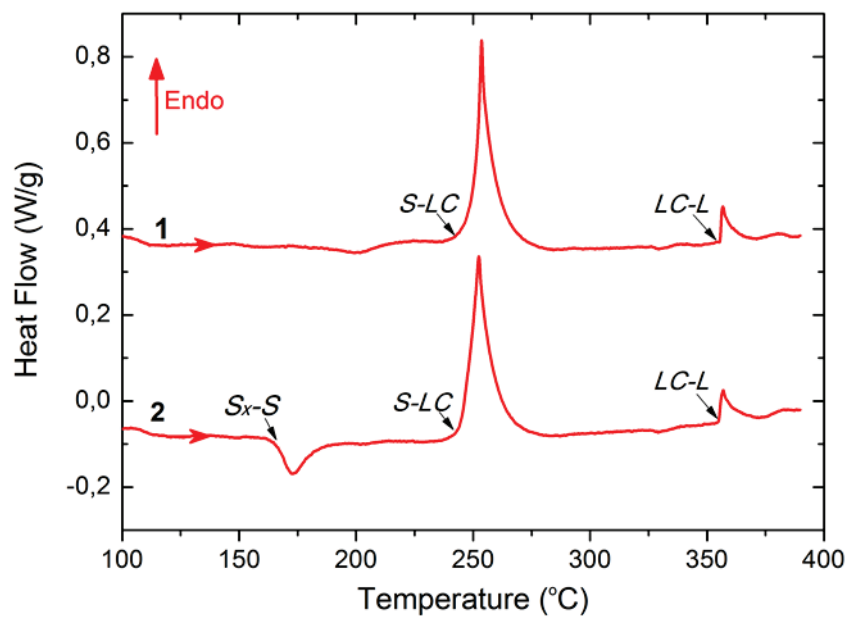


Figure S3.2. DSC curves of (TMS-2T-Ph)₂-BTD sample (4.5 mg) in two successive heating cycles.