

Supplementary Information

Table S1. IR spectra of parent compounds and complex **1**.

	Components		{Mn ^{II} (hfac) ₂ ·(μ ₂ -TMI-NPS)} ₂ (1)
	TMI-NPS	Mn ^{II} (hfac) ₂	
TMI-NPS	456w 551w 589w 687w 734s 745s 753s 808s 820m 862w 936m 987s 1014m 1027m 1085m 1108m 1144w 1156m 1210w 1238m 1250s 1277m 1304m 1340w 1359m 1379m 1441w 1461m 1488s 1516w 1590m 1613m 1640m 2893w 2925w 2966m 3045m 3063w		459w - 583w* - 725w 749w* 756w 791w 796w sp 804w* 857w 867w 946w 954w 965w 1020w 1041w 1089m 1096m sp* - 1149vs* - 1206s 1218m - 1254s* 1285m - 1331m 1362w 1377w - 1451m* 1478m 1504m 1511m 1590m 1596m sp 1616w 1645s - - 2963w* - 3066w
Mn ^{II} (hfac) ₂		525w 584m 666s 740w744w 806s 1090m 1134s 1250m 1347w 1460s 1538w 1566w 1612w 1638m 2971w	- 583w* 664w 669w sp 749w* 804w* 1089m 1096m sp* 1149vs* 1254s* - 1451m* 1527s 1552m - 1656m 2963w*

*bands are coincided, sp. –split band, w- weak, m- middle, s- strong intensity.

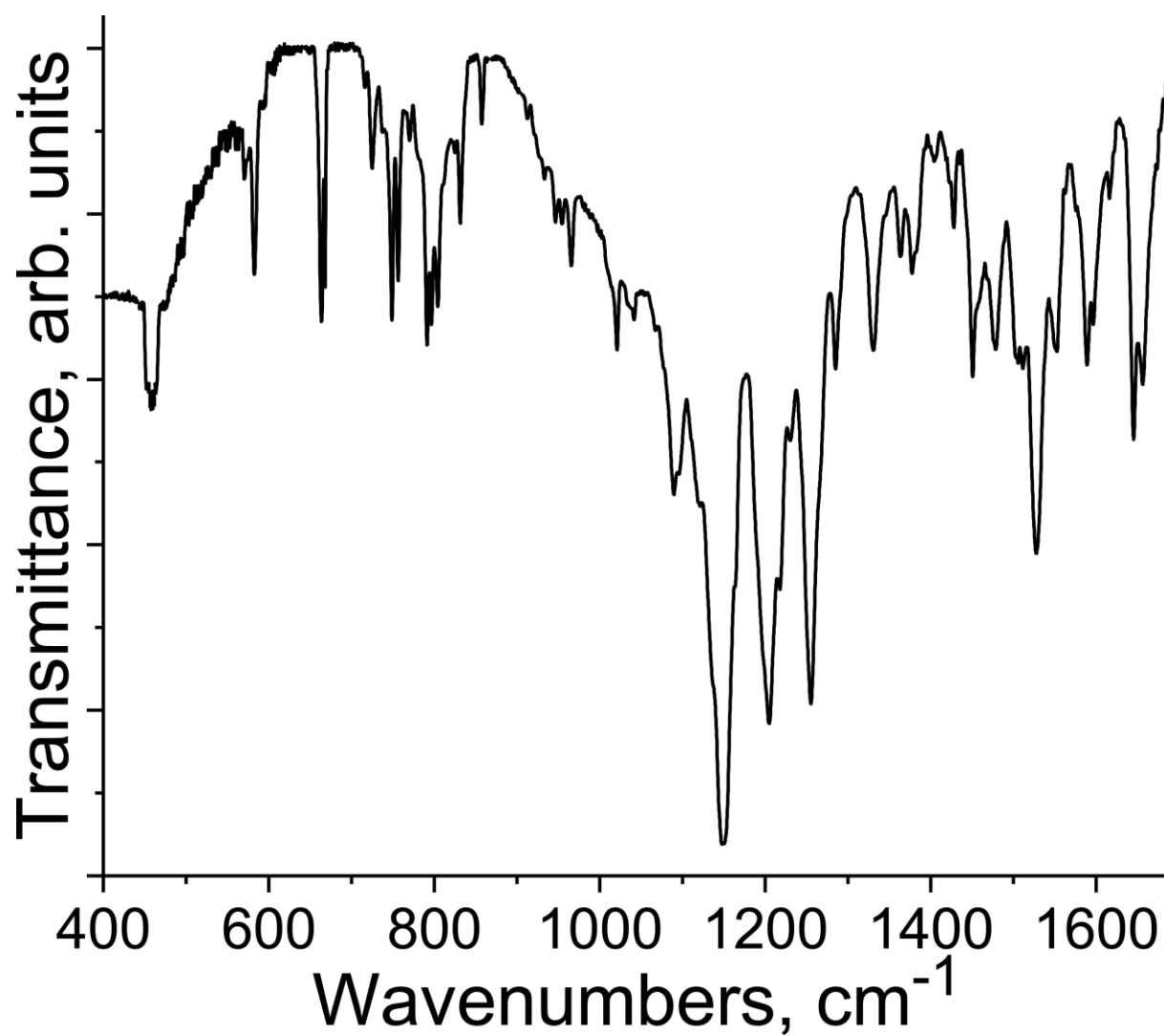


Fig. S1. IR-spectrum of $\{\text{Mn}^{\text{II}}(\text{hfac})_2 \cdot (\mu_2\text{-TMI-NPS})\}_2$ (**1**) measured in KBr pellet prepared in anaerobic conditions.

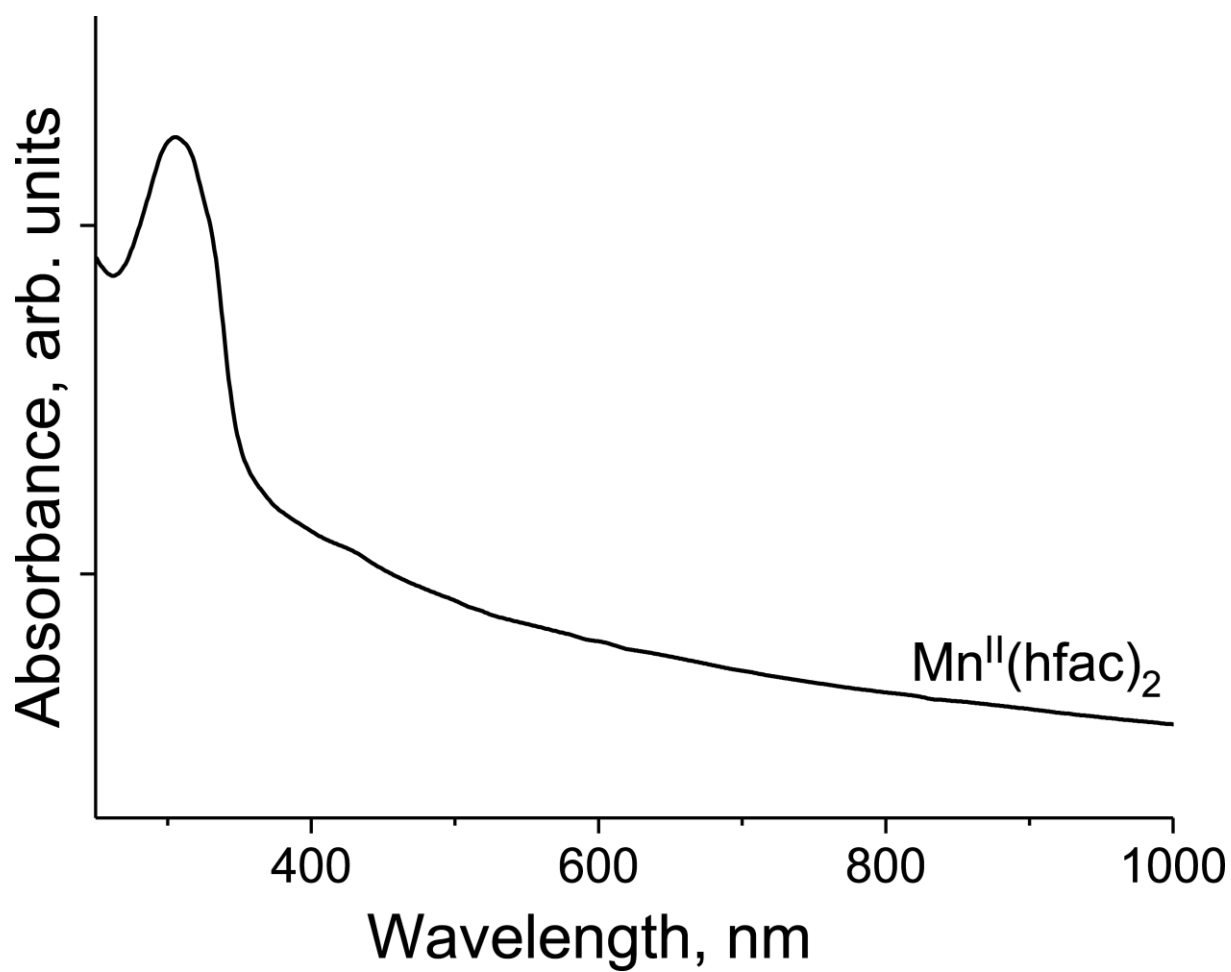


Fig. S2. UV-visible-NIR spectrum of starting $\text{Mn}^{\text{II}}(\text{hfac})_2$ in KBr pellet in the 250-1000 nm range..

Crystal structure of **1**.

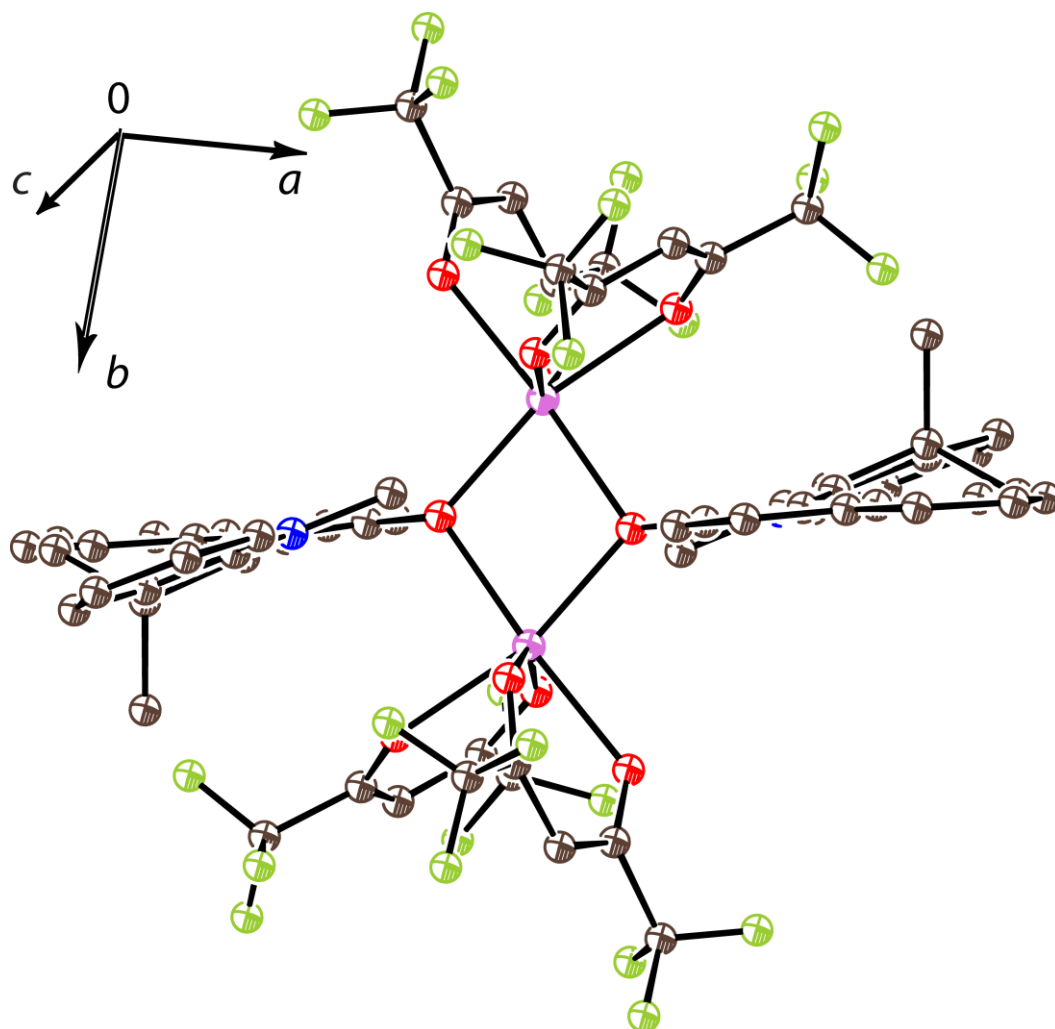


Fig. S3. View on the $\{\text{Mn}^{\text{II}}(\text{hfac})_2(\mu_2\text{-TMI-NPS})\}_2$ dimer in **1** approximately perpendicular to the Mn_2O_2 plane. Oxygen is red, nitrogen is blue, fluorine is green, carbon is brown and manganese is pink.

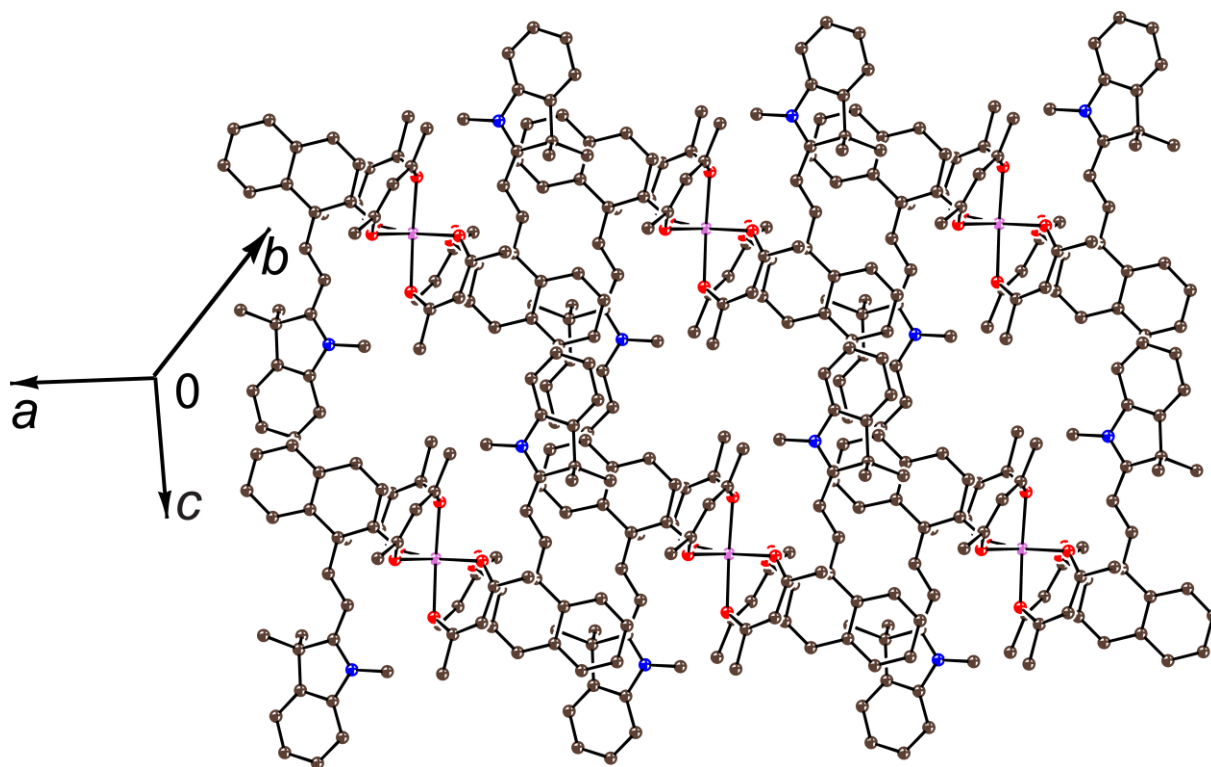


Fig. S4. View on the layers composed of the $\{\text{Mn}^{\text{II}}(\text{hfac})_2 \cdot (\mu_2\text{-TMI-NPS})\}_2$ dimers in **1**. The formation of van der Waals contacts between the TMI-NPS ligands is observed in the chains and between the chains indicating layered packing of the components.

Data of magnetic measurements.

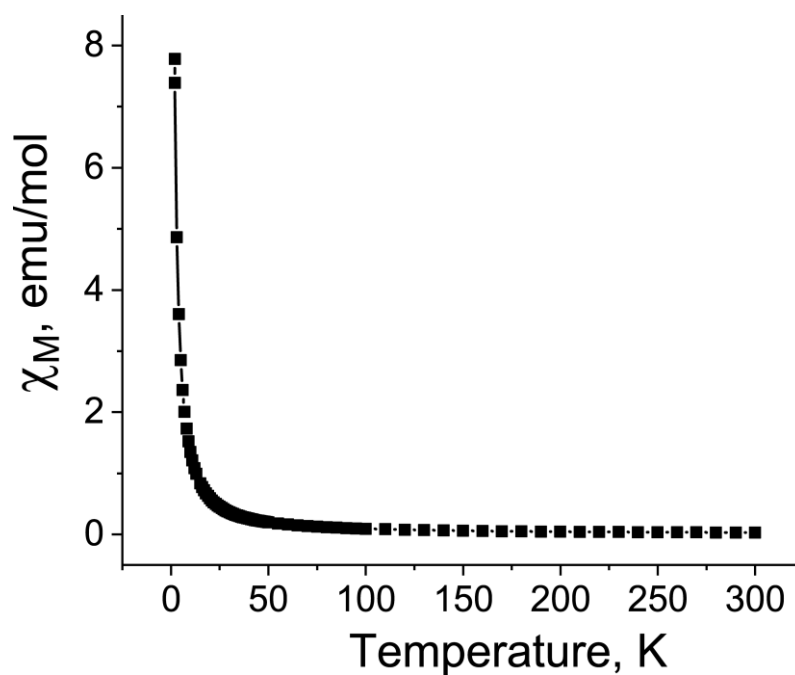


Fig. S5a. Data of SQUID measurement for polycrystalline **1**. Temperature dependence of molar magnetic susceptibility is shown in the 1.9-300 K range after subtraction of temperature independent contribution.

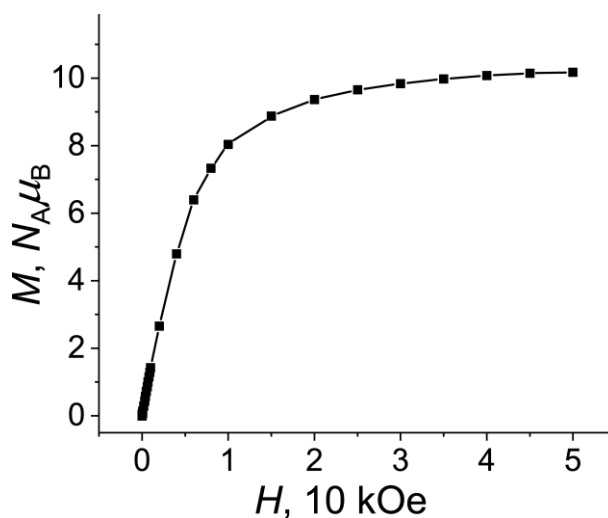


Fig. S5b. Magnetization of **1** in μ_B vs magnetic field up to 50 kOe (black line is a guide to the eye);

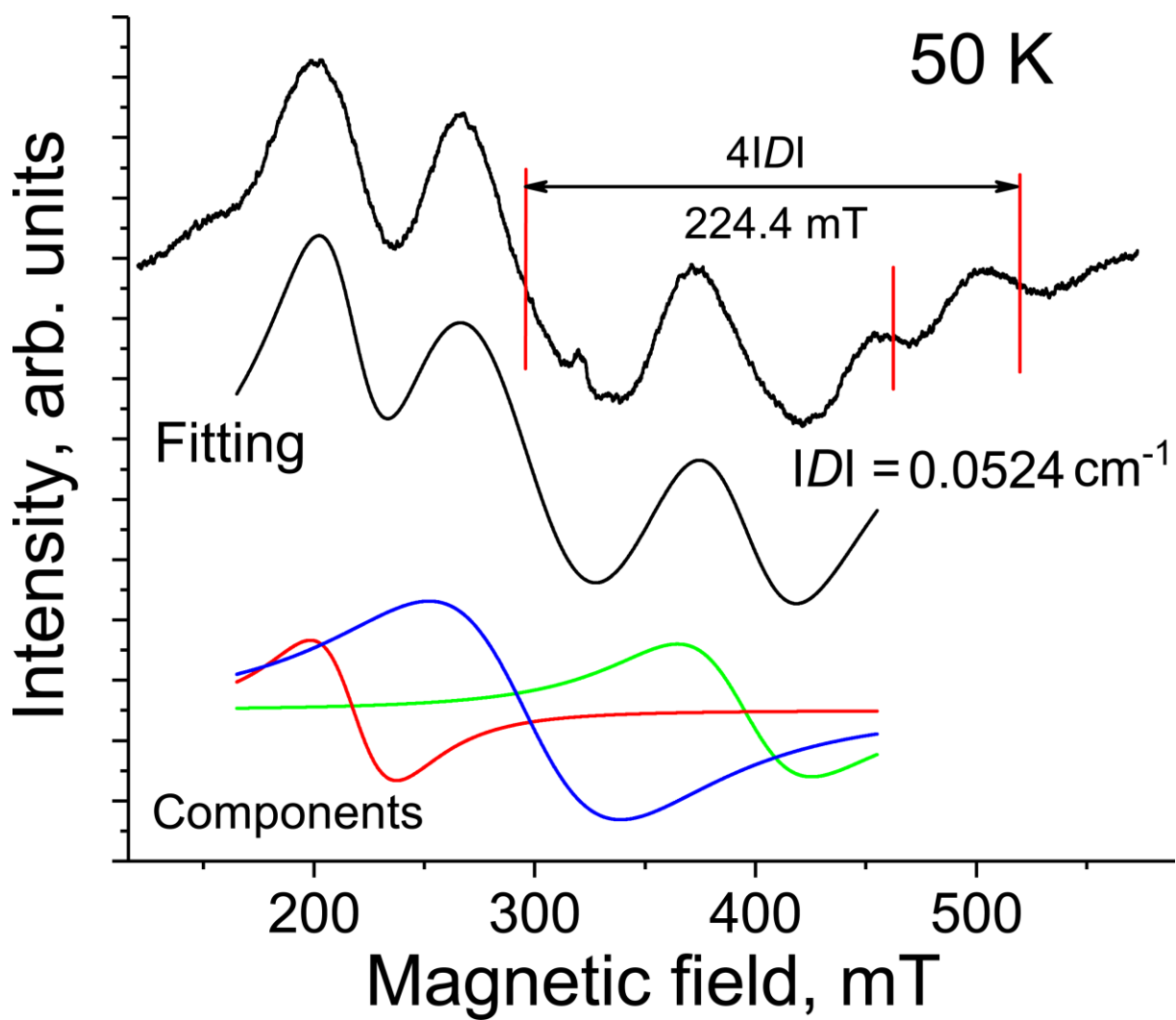


Fig. S6. EPR spectrum of polycrystalline **1** at 50 K. Determination of the g_1 , g_2 , and g_3 values together with zero-field splitting $|D|$ is shown. Determined values are given in the text.

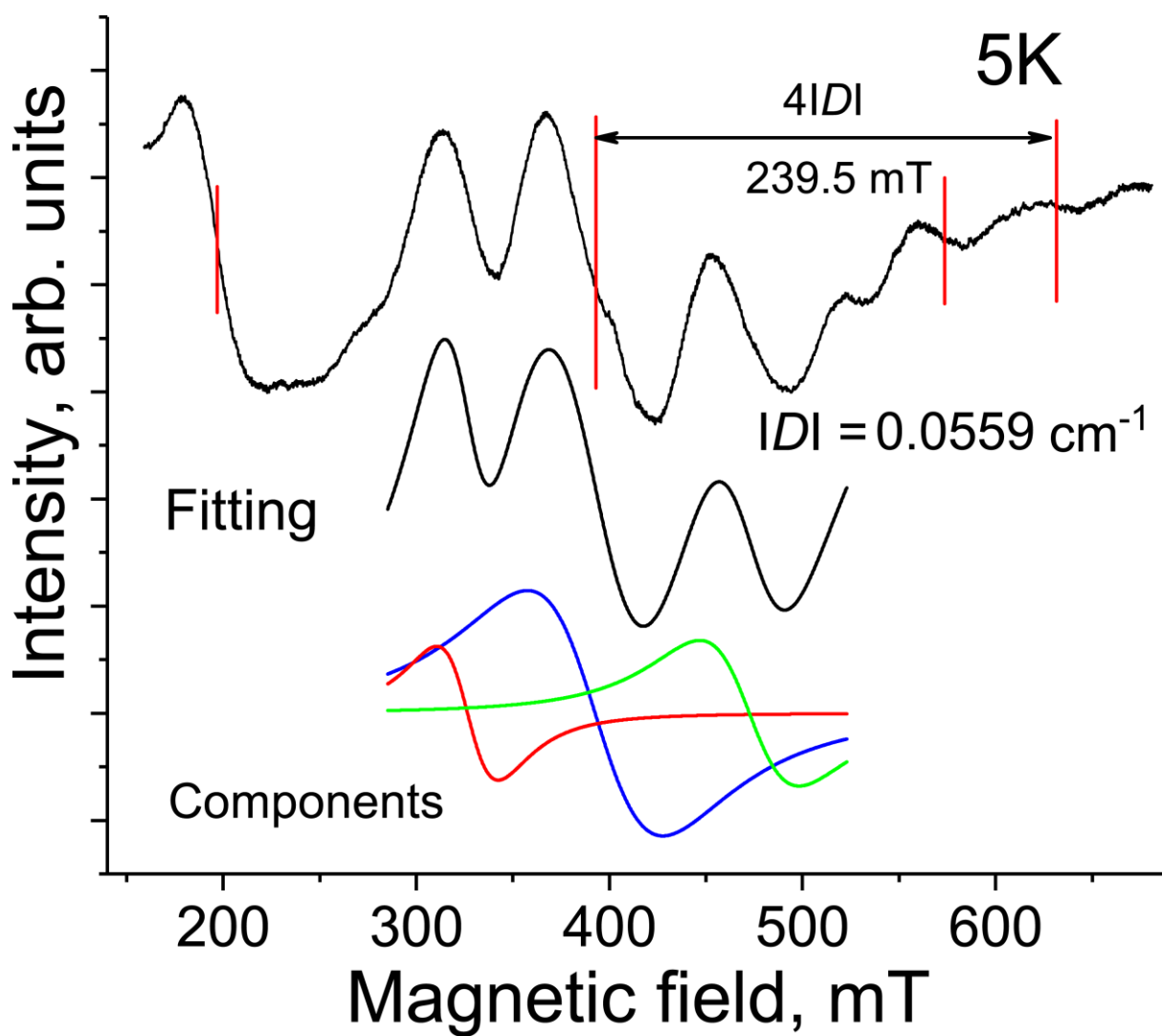


Fig. S7. EPR spectrum of polycrystalline **1** at 5 K. Determination of the g_1 , g_2 , and g_3 values together with zero-field splitting $|DI|$ is shown. Determined values are given in the text.

Theoretical calculations

Optimization of the molecular structures was performed using the PBE exchange-correlation functional^[2] and with the extended basis set Mn: [9s9p8d/5s5p4d], O,N,C : [5s5p2d/3s3p2d], H :[5s1p/3s1p] for the valence electrons and the SBK pseudopotential^[3] implemented in the **PRIRODA** package^[4]. The Hirschfeld method^[5] was used to calculate atomic charges. Electronic spectra are estimated using results of TDDFT calculations with Gaussian widening of lines with half width 20 nm. Energetic effects are given at $T = 0$ taking into account the contribution of zero point vibration energies. All calculations were performed at Joint Supercomputer Center of the Russian Academy of Sciences.

The value of the exchange parameter J is determined by the set of matrix elements between magnetic orbitals localized at centers a and b:

$$\left\langle a_i(1)b_j(2) \left| h(1) + h(2) + \frac{1}{r_{12}} \right| b_j(1)a_i(2) \right\rangle = 2\langle a_i | b_j \rangle \langle a_i | h | b_j \rangle + \left\langle a_i(1)b_j(2) \left| \frac{1}{r_{12}} \right| b_j(1)a_i(2) \right\rangle$$

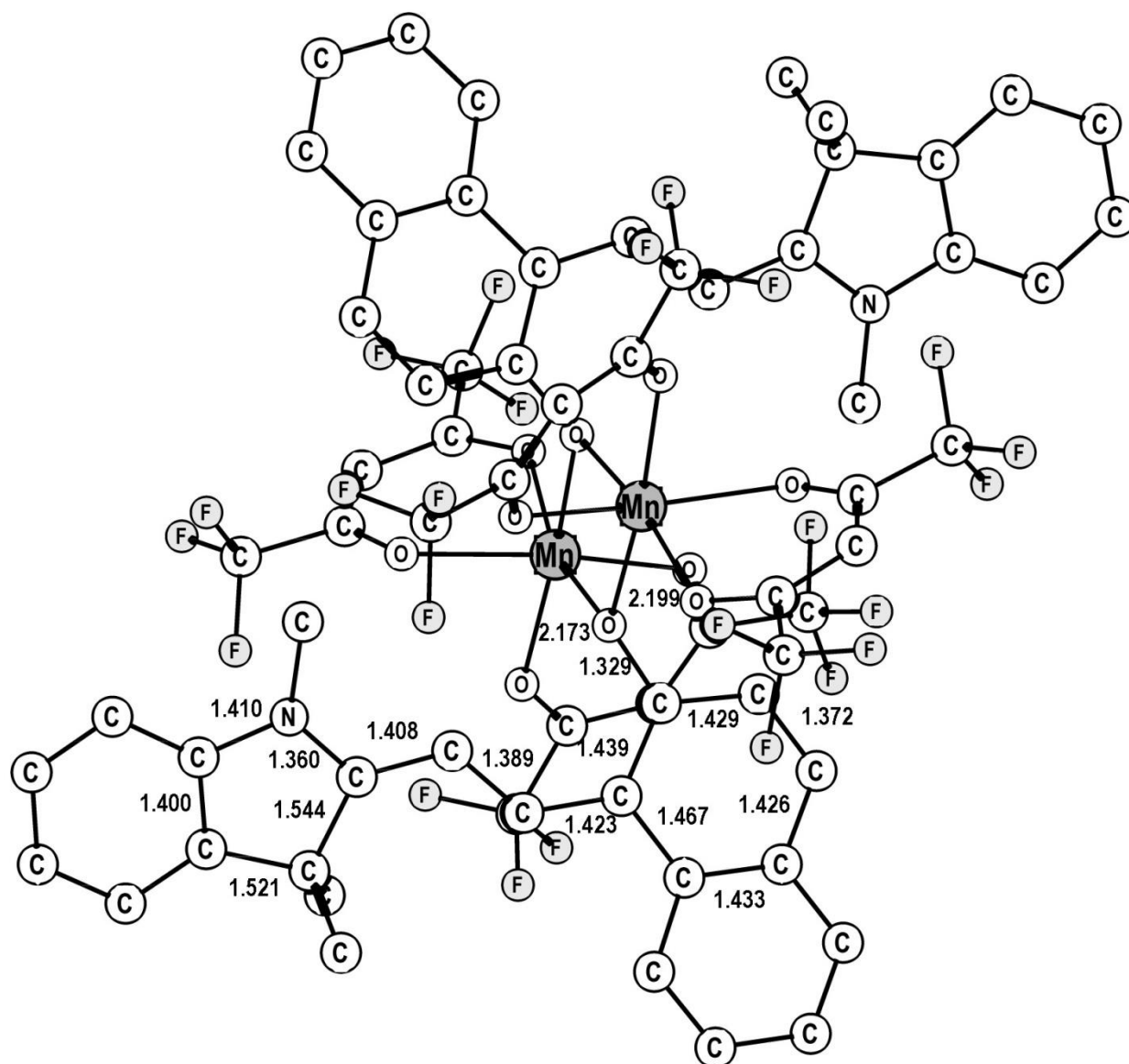


Fig S9. Optimized structure of the $\{\text{Mn}^{\text{II}}(\text{hfac})_2 \cdot (\mu_2\text{-TMI-NPS})\}_2$ dimer.

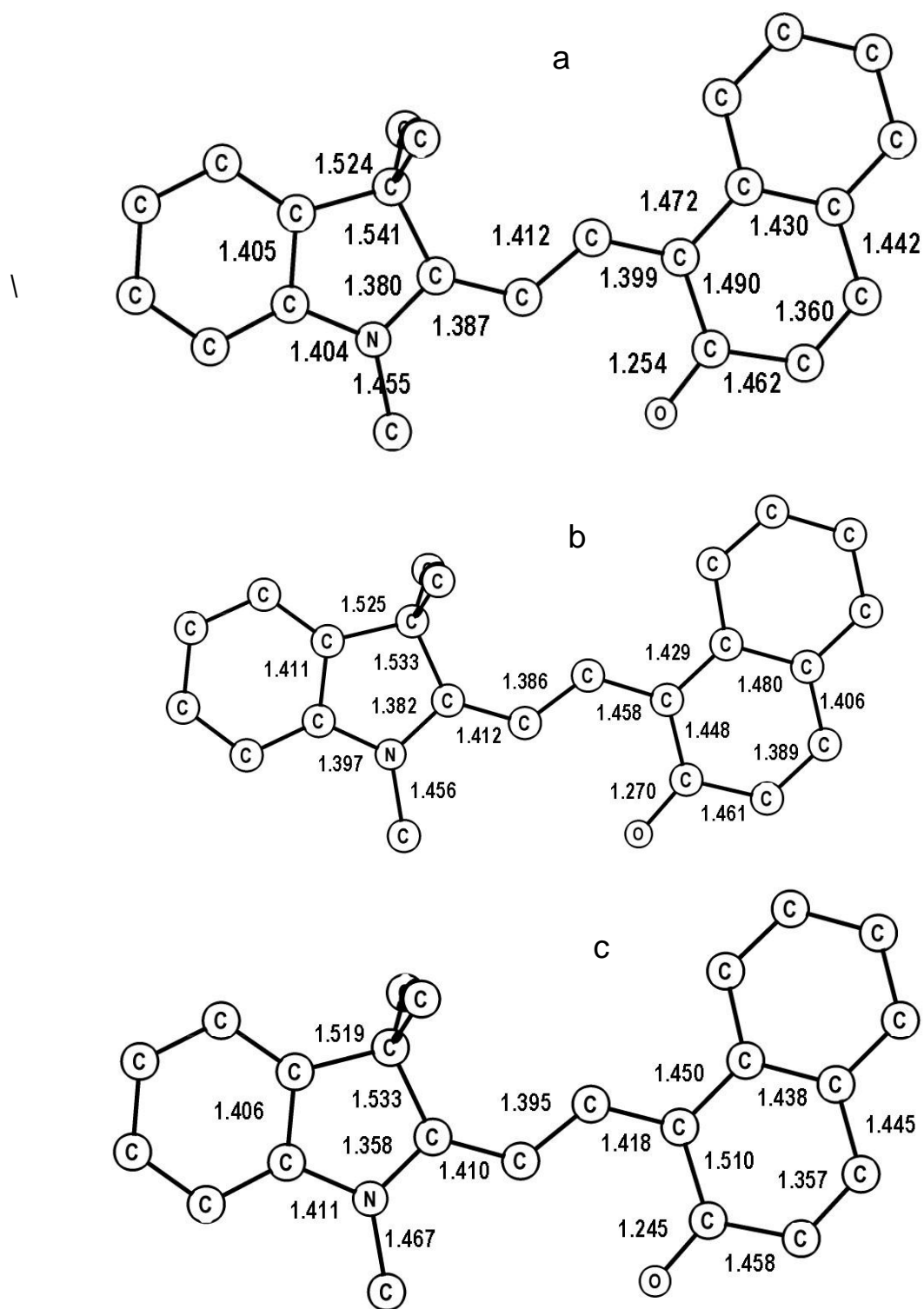


Fig. S10. Optimized structure of: (a) free TMI-NPS ligand in the open form; (b) the excited free TMI-NPS ligand in the open form. Excitation corresponds to intense transition for this ligand observed in visible range; (c) free ligand in the open form in the radical cation TMI-NPS⁺ state.

References.

- [1] Sheldrick, G. M., *Acta Crystallogr., Sect. A: Fundam. Crystallogr.* 2008, **64**, 112-122.
- [2] J. P. Perdew, K. Burke, M. Ernzerhof, *Phys. Rev. Lett.* **1996**, 77, 3865-3868.
- [3] Stevens, W. J.; Basch, H., Krauss, M. J. *Chem. Phys.*, 1984, 81, 6026
- [4] D. N. Laikov, *Chem. Phys. Lett.*, **1997**, 281, 151 - 156.
- [5] F. L. Hirshfeld, *Theor. Chim. Acta* **1977**, 44, 129-138.

Cartesian coordinates of the calculated structures

TMI-NPS open form

8	2.53449485	-2.23310386	1.26015346
7	1.22980962	0.02400531	-2.54086225
6	1.79233919	-2.01304483	2.24613454
6	2.14908831	-2.57459515	3.54773815
1	3.07360874	-3.15343465	3.57558022
6	1.37873052	-2.39578309	4.65389162
1	1.67703620	-2.83490802	5.61061148
6	0.14833284	-1.64477035	4.61585700
6	-0.63072724	-1.51030507	5.78621095
1	-0.27108950	-1.97625263	6.70692442
6	-1.83059306	-0.80792860	5.77856567
1	-2.42438091	-0.71196528	6.68853818
6	-2.26955571	-0.23135093	4.57466256
1	-3.21489418	0.31385758	4.54352208
6	-1.51238639	-0.35291851	3.41150525
1	-1.90834958	0.10007574	2.50252579
6	-0.27857904	-1.04898226	3.38743838
6	0.55286189	-1.18901582	2.18054600
6	0.19060303	-0.52515050	1.00408625
1	-0.70073648	0.10072054	1.06048633
6	0.86325640	-0.56231410	-0.23729286
1	1.74949645	-1.19630108	-0.26425044
6	0.48937781	0.12665558	-1.38129469
6	-0.70058473	1.06952589	-1.64688282
6	-0.47558871	1.43861038	-3.10847448
6	-1.20554513	2.26413110	-3.95695418
1	-2.10385247	2.77524837	-3.60360989
6	-0.77264841	2.43581110	-5.28414683
1	-1.33587487	3.08034918	-5.95983994
6	0.37847524	1.78185059	-5.74142734
1	0.70576097	1.92098581	-6.77291711
6	1.12498623	0.94600852	-4.89717392
1	2.01758688	0.44418168	-5.27123421
6	0.67812234	0.78957748	-3.58075554
6	2.43197085	-0.78719222	-2.65305553
1	3.18018725	-0.47275459	-1.91084464

1	2.85469366	-0.67321455	-3.65613858
1	2.20276528	-1.84878641	-2.47763525
6	-0.63669217	2.33635441	-0.75787102
1	-0.76282166	2.08922974	0.30446125
1	-1.43690886	3.03389158	-1.04623908
1	0.32592084	2.85220259	-0.87619568
6	-2.05644611	0.33939043	-1.48159072
1	-2.10210617	-0.55526868	-2.11734306
1	-2.87838099	1.00963652	-1.77347916
1	-2.22076301	0.02704110	-0.44193035

TMI-NPS open form, excited state $S = 0$

8	2.54692236	-2.16913119	1.26831189
7	1.23381980	0.06618501	-2.52637335
6	1.76596962	-1.98824838	2.25297627
6	2.08779467	-2.65522952	3.51253686
1	2.99140178	-3.26833075	3.49861976
6	1.31902490	-2.53736591	4.66307078
1	1.60581769	-3.05802211	5.58036261
6	0.15877505	-1.74339414	4.65827671
6	-0.63456920	-1.61667606	5.83250268
1	-0.31277795	-2.15337616	6.72782967
6	-1.77386009	-0.84337131	5.84687266
1	-2.37975420	-0.74844943	6.74807141
6	-2.15444611	-0.15978445	4.65039019
1	-3.05659940	0.45572571	4.65652508
6	-1.41545549	-0.25380523	3.48909740
1	-1.76475724	0.29479841	2.61718315
6	-0.21927832	-1.04388721	3.40945002
6	0.57311009	-1.16741313	2.22664757
6	0.16925039	-0.46620193	1.01324169
1	-0.74328959	0.12519233	1.07725103
6	0.83977934	-0.49039754	-0.19963704
1	1.74703896	-1.09940067	-0.20680915
6	0.46297657	0.17900341	-1.38462632
6	-0.73625516	1.08435503	-1.68766615
6	-0.48890009	1.42857922	-3.15205409
6	-1.21725594	2.21962381	-4.03315664

1	-2.13438967	2.71700887	-3.70906474
6	-0.76144760	2.37580000	-5.35544745
1	-1.32472202	2.99382432	-6.05540596
6	0.41635828	1.73820160	-5.77648776
1	0.76126413	1.86511148	-6.80395955
6	1.16337020	0.93758772	-4.90303762
1	2.07489467	0.45017930	-5.24999078
6	0.69354418	0.79428789	-3.58922471
6	2.45528247	-0.72177508	-2.60263402
1	3.19015512	-0.36892123	-1.86497231
1	2.88321747	-0.62873726	-3.60565812
1	2.24748957	-1.78198870	-2.39720444
6	-0.72598839	2.37037107	-0.81810681
1	-0.85205092	2.13422067	0.24699038
1	-1.54807597	3.03500758	-1.12353306
1	0.21943838	2.91672233	-0.93728667
6	-2.08531904	0.33356261	-1.52600511
1	-2.10722532	-0.57164659	-2.14780562
1	-2.91569383	0.98501837	-1.83729725
1	-2.25458415	0.03518723	-0.48276311

TMI-NPS open form, excited state $S = 1$

8	2.76374563	-1.66639706	1.40640945
7	1.14642376	-0.04987976	-2.54700552
6	1.94121088	-1.67237600	2.36878713
6	2.31362499	-2.29805440	3.62329980
1	3.30870674	-2.74492238	3.65020064
6	1.49572513	-2.29026971	4.71939732
1	1.81564884	-2.74201825	5.66146632
6	0.19064918	-1.70232897	4.65185459
6	-0.66241519	-1.72016731	5.77620498
1	-0.29478510	-2.17048876	6.70122402
6	-1.94678333	-1.18871359	5.72171426
1	-2.58941647	-1.21414808	6.60329004
6	-2.41935842	-0.62947190	4.51446345
1	-3.43407614	-0.23242383	4.45747460
6	-1.59996561	-0.59154125	3.39700058
1	-2.00033014	-0.17294297	2.47456573

6	-0.26628114	-1.10167131	3.41943181
6	0.60248958	-1.03846586	2.27084656
6	0.18052446	-0.35377034	1.07433837
1	-0.65115673	0.34093184	1.18381611
6	0.76113853	-0.50298361	-0.18867186
1	1.57114286	-1.22981527	-0.24128901
6	0.43172102	0.17606403	-1.36998408
6	-0.65828509	1.21813950	-1.65087762
6	-0.44905785	1.47569320	-3.13899785
6	-1.12790516	2.31304621	-4.01641385
1	-1.96339434	2.92539520	-3.66982689
6	-0.72712655	2.36665744	-5.36447378
1	-1.25206584	3.02058549	-6.06163878
6	0.34319324	1.58025492	-5.81592653
1	0.64185288	1.62587159	-6.86442847
6	1.03868384	0.72994678	-4.94680954
1	1.86140672	0.11787982	-5.31694297
6	0.62906080	0.69411251	-3.60514363
6	2.26979324	-0.96520020	-2.66255133
1	2.94623363	-0.84699115	-1.80590479
1	2.82558014	-0.74126728	-3.57971577
1	1.92968154	-2.01248704	-2.69671086
6	-0.43103261	2.51976832	-0.83738680
1	-0.52202923	2.33646462	0.24154233
1	-1.17806465	3.27582780	-1.12227943
1	0.56787862	2.93383754	-1.03061416
6	-2.08077280	0.65900301	-1.39266251
1	-2.25618113	-0.25539399	-1.97557481
1	-2.83633573	1.40363730	-1.68453305
1	-2.22929703	0.42107314	-0.33096416

TMI-NPS^{•+} radical-cation, open form, charge = +1, $S = 1/2$

8	2.52588204	-2.18820250	1.26570536
7	1.18912889	0.00635034	-2.52190369
6	1.81503310	-1.98179435	2.26690167
6	2.21284310	-2.51475213	3.56488576
1	3.15481609	-3.06294097	3.58781963
6	1.44525962	-2.33935219	4.67052304

1 1.76082274 -2.74856964 5.63320892
6 0.18350825 -1.63623413 4.62019286
6 -0.59378665 -1.51657045 5.78472030
1 -0.21863830 -1.94604807 6.71537051
6 -1.82977920 -0.86723686 5.76298395
1 -2.42166181 -0.78543887 6.67521566
6 -2.31200436 -0.33045273 4.55582104
1 -3.28450621 0.16177999 4.52781822
6 -1.55665110 -0.43200967 3.39427858
1 -1.97781748 -0.02198331 2.47733966
6 -0.28410749 -1.07061413 3.38355270
6 0.53817050 -1.17917301 2.19359832
6 0.16173032 -0.50856911 1.00246824
1 -0.71757591 0.13056491 1.07040978
6 0.82129270 -0.56910914 -0.22508381
1 1.69267751 -1.22208873 -0.26565294
6 0.45408785 0.13795257 -1.38789066
6 -0.70777537 1.10273185 -1.65042960
6 -0.47407365 1.45938138 -3.10845212
6 -1.17883035 2.29750529 -3.96653752
1 -2.06525928 2.83766866 -3.63003990
6 -0.72557822 2.43896667 -5.28851464
1 -1.26541872 3.09187557 -5.97493812
6 0.41334740 1.75156863 -5.74143315
1 0.74447710 1.87704304 -6.77243658
6 1.13254466 0.90593917 -4.89095061
1 2.01273924 0.37732389 -5.25546343
6 0.66395448 0.78065149 -3.57800963
6 2.38268225 -0.83667749 -2.64651362
1 3.12657433 -0.55169284 -1.89205940
1 2.81352513 -0.70165716 -3.64170880
1 2.11618188 -1.89280207 -2.50880493
6 -0.60667369 2.37066057 -0.76081482
1 -0.74527143 2.13106276 0.30126866
1 -1.39019425 3.08275847 -1.05415376
1 0.36633525 2.86604408 -0.87900524
6 -2.08091156 0.39945631 -1.48191004
1 -2.15222981 -0.49673560 -2.11268035

1 -2.88144920 1.09088167 -1.77857619
1 -2.25742040 0.10253783 -0.44011933

TMI-NPS closed form, $S = 0$

8 0.44612266 0.53213173 0.41571522
7 0.58755429 -0.17981914 -1.86649764
6 0.06982245 -0.33733070 1.39060013
6 0.98236871 -0.49614102 2.46387167
1 1.92706157 0.04755487 2.42766928
6 0.66028571 -1.32089648 3.52052581
1 1.36047290 -1.44341009 4.34969357
6 -0.57561665 -2.02870524 3.55495540
6 -0.90383542 -2.88596278 4.63932085
1 -0.18526581 -2.99356840 5.45530377
6 -2.10434335 -3.57322284 4.66826791
1 -2.34494019 -4.22850688 5.50670729
6 -3.02025555 -3.42444874 3.60040517
1 -3.96606508 -3.96902038 3.61891234
6 -2.72846143 -2.59642445 2.52835708
1 -3.45177179 -2.51113467 1.71691989
6 -1.50679072 -1.87044793 2.46888622
6 -1.16699255 -0.99537192 1.37828127
6 -2.03593207 -0.71801371 0.25359969
1 -3.05585772 -1.10494021 0.25292739
6 -1.61915712 0.02051530 -0.80056404
1 -2.28153796 0.20415192 -1.64493255
6 -0.22548010 0.56031539 -0.90782801
6 -0.09004760 2.05945201 -1.42189646
6 1.27461654 2.00567165 -2.09578730
6 2.13071415 3.02162761 -2.50354905
1 1.89128221 4.06823175 -2.30134469
6 3.32086727 2.68823682 -3.17902834
1 4.00349845 3.47638116 -3.49918334
6 3.62998133 1.34785545 -3.43528507
1 4.55677024 1.09659207 -3.95447045
6 2.77512489 0.31080193 -3.02422202
1 3.03705004 -0.73052931 -3.21494482
6 1.59548587 0.65992140 -2.35700198

6	0.80089907	-1.61003437	-1.72803566
1	1.61480102	-1.85149299	-1.02030329
1	1.05195206	-2.04568715	-2.70623713
1	-0.12711436	-2.08036703	-1.37914849
6	-0.20476951	3.09010021	-0.29073334
1	-1.17351848	3.00241813	0.22400312
1	-0.14483446	4.10515764	-0.71091975
1	0.59359631	2.97474973	0.45087489
6	-1.15396973	2.36238105	-2.50501146
1	-1.14855472	1.60811524	-3.30480703
1	-0.93120220	3.33643782	-2.96256689
1	-2.16401318	2.41667557	-2.07149915

{[Mn(hfac)₂](TMI-NPS)}₂ dimer, *S* = 5

25	-0.24528638	-1.65913021	-0.15586152
9	-3.53624330	-4.94992419	-0.89919873
9	-4.73780832	-3.62133167	0.36580453
9	-3.94654381	-5.49380216	1.18332281
9	0.00168280	-3.10285113	4.67958220
9	-0.37850825	-5.17572798	4.08049648
9	1.47449496	-4.18542616	3.46771447
9	1.90401731	-5.93602729	-0.18653329
9	3.44446898	-4.79254607	-1.24982813
9	2.13549116	-6.16144744	-2.35221188
9	-0.66683048	-3.91754159	-5.22767254
9	-0.52267245	-1.73406988	-5.14447790
9	-2.31687277	-2.74837713	-4.39328530
8	-1.28701768	0.23162220	0.39529205
8	-2.11926668	-2.69464375	0.01180524
8	0.02120325	-2.39676448	1.91203525
8	1.10017638	-3.32067557	-0.51466020
8	-0.64728381	-1.89406518	-2.31265215
7	-3.49433370	1.48714488	-3.72769341
6	0.14176910	-3.99931563	3.65654252
6	-2.17987899	0.32333017	1.37499073
6	-1.74167299	0.06109946	2.71014453
1	-0.69545332	-0.20313852	2.84430494
6	-2.58432632	0.15120187	3.78835180

1	-2.20667739	-0.04980190	4.79384406
6	-3.96045693	0.49019836	3.62754565
6	-4.82835751	0.53590388	4.74721976
1	-4.41364694	0.32670576	5.73581230
6	-6.17423948	0.82784500	4.59582555
1	-6.83704393	0.85961404	5.46144182
6	-6.68114305	1.06194108	3.30203044
1	-7.74502902	1.26279765	3.16404461
6	-5.84559240	1.02420268	2.19177365
1	-6.29922455	1.16542577	1.21129499
6	-4.45548130	0.76585481	2.31221655
6	-3.54280008	0.73695495	1.16402198
6	-4.03147149	1.20758432	-0.08547417
1	-4.98098096	1.73624502	-0.02145958
6	-3.47232278	1.10928400	-1.35293456
1	-2.54958552	0.54806078	-1.47085877
6	-4.03987797	1.69065014	-2.50162288
6	-5.26100409	2.61753557	-2.64753144
6	-5.24268721	2.89974951	-4.14308320
6	-6.07787148	3.68493474	-4.93169568
1	-6.91186545	4.23586498	-4.49215371
6	-5.82788547	3.76381813	-6.31238226
1	-6.47111028	4.37775597	-6.94382721
6	-4.75656305	3.06386631	-6.88466185
1	-4.57335772	3.13888634	-7.95730745
6	-3.90869368	2.26784529	-6.10177285
1	-3.07336313	1.73565885	-6.55561976
6	-4.17848321	2.20261483	-4.73248711
6	-2.33066147	0.63865196	-3.96916964
1	-1.43791943	1.09614065	-3.52220100
1	-2.18589322	0.52222056	-5.04622981
1	-2.48785472	-0.34914562	-3.52024754
6	-5.08706966	3.92909615	-1.84281427
1	-5.07753922	3.74036510	-0.76175672
1	-5.92186771	4.60912667	-2.06621278
1	-4.14971051	4.43545863	-2.10654718
6	-6.58155110	1.89312709	-2.27596745
1	-6.68982646	0.95273863	-2.83303980

1 -7.43390651 2.54026117 -2.52745815
1 -6.63594309 1.66693758 -1.20356455
6 -3.66456976 -4.45142917 0.35684059
6 -2.37904801 -3.67368637 0.76255584
6 -1.65767940 -4.12365864 1.88522836
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6 2.16801530 -5.26444600 -1.33317812
6 1.17760433 -4.07717523 -1.51899599
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1 0.67546836 -4.71841753 -3.51162399
6 -0.33328195 -2.87495835 -3.04351099
6 -0.96355421 -2.83582032 -4.46725720
25 0.28038716 1.70080082 0.10985802
9 3.50846920 5.06858550 0.72128253
9 4.70422516 3.76833524 -0.57833140
9 3.83560286 5.61509478 -1.37533177
9 -0.18702882 3.10614930 -4.71876937
9 0.19105101 5.18906529 -4.15468068
9 -1.62330166 4.18274942 -3.45856784
9 -1.80270561 6.01199746 0.20179082
9 -3.34431336 4.86546014 1.25909889
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9 1.03428502 4.08341778 5.07023673
9 0.71534297 1.91674396 5.11746685
9 2.54445165 2.74216455 4.23072409
8 1.33118362 -0.19030220 -0.41027778
8 2.12583628 2.77051247 -0.13775485
8 -0.07755751 2.41809144 -1.95443748
8 -1.06775350 3.34879294 0.51544910
8 0.77022658 1.95100091 2.24815969
7 3.41427596 -1.52886053 3.75429142
6 -0.29712891 4.01055091 -3.69930443
6 2.24677301 -0.28663119 -1.36891066
6 1.85525111 0.03488991 -2.70539191
1 0.82653467 0.35370587 -2.85801758
6 2.72100436 -0.06430466 -3.76428693
1 2.37958667 0.18270585 -4.77247774

6	4.07406891	-0.47604762	-3.58058588
6	4.96376150	-0.53777159	-4.68232712
1	4.58235792	-0.28228672	-5.67343800
6	6.28897284	-0.90293573	-4.51046604
1	6.96882825	-0.94684988	-5.36219848
6	6.75283905	-1.19751532	-3.21296800
1	7.80098298	-1.45927245	-3.05769332
6	5.89559054	-1.14417284	-2.12010399
1	6.32005541	-1.33956934	-1.13604258
6	4.52394795	-0.80859193	-2.26195002
6	3.58689077	-0.75825129	-1.13341260
6	4.03168910	-1.25313707	0.12325098
1	4.96799720	-1.80623011	0.07868075
6	3.44781656	-1.14592212	1.37897701
1	2.53325765	-0.56779468	1.47740152
6	3.98126637	-1.73799472	2.53865292
6	5.18615328	-2.68261151	2.70827568
6	5.13259322	-2.96812210	4.20228489
6	5.93930871	-3.76731243	5.00634380
1	6.77553815	-4.32786201	4.58353425
6	5.65691948	-3.84819308	6.38067158
1	6.27763431	-4.47292116	7.02395301
6	4.58168343	-3.13704835	6.93141867
1	4.37263222	-3.21469152	7.99913926
6	3.76231110	-2.32689670	6.13279586
1	2.92243440	-1.78713600	6.56896068
6	4.06506319	-2.25909238	4.77054052
6	2.25658735	-0.66843441	3.97908485
1	1.35357615	-1.14654629	3.57597328
1	2.13766633	-0.49700199	5.05228584
1	2.40389297	0.29526374	3.47824019
6	5.01069393	-3.99129955	1.89936943
1	5.02722450	-3.80323373	0.81843104
1	5.83035266	-4.68340026	2.14095119
1	4.06053193	-4.48383757	2.14297931
6	6.52404334	-1.97620253	2.36562397
1	6.63522886	-1.03984158	2.92891227
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1 6.60258563 -1.74552584 1.29565983
6 3.60983331 4.56858773 -0.53676481
6 2.33303535 3.75492791 -0.89749632
6 1.56127055 4.18301473 -1.99509631
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6 0.43007135 3.47357306 -2.43243155
6 -2.06527908 5.32644672 1.34177994
6 -1.08077559 4.13106873 1.50285742
6 -0.34393159 4.03996561 2.69786874
1 -0.45392420 4.82072310 3.44336779
6 0.50924807 2.95566133 2.96805692
6 1.20881860 2.94322612 4.35956744

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9 -4.68960883 -3.83379622 0.66321165
9 -3.80167101 -5.76984870 1.18001101
9 0.50563859 -3.72029944 4.37331307
9 0.19759151 -5.70163004 3.49025067
9 1.88332652 -4.46535977 2.83903290
9 0.78185521 -6.10495454 -0.86033126
9 2.32686768 -5.09667551 -2.04217452
9 0.70338557 -6.16996340 -3.04948937
9 -2.95442952 -3.72485352 -4.68672919
9 -1.88758788 -1.91893691 -5.32292181
9 -3.56803435 -1.76685717 -3.92246455
8 -1.41207822 -0.07231999 0.32559533
8 -2.13730109 -2.89514093 -0.02393633
8 0.11703673 -2.61332491 1.74025605
8 0.46019452 -3.32311433 -0.96975688
8 -1.38288707 -1.61091673 -2.34532231
7 -2.61389794 2.17109543 -3.93734336
6 0.57653498 -4.43105857 3.20769537
6 -2.55909072 -0.11067339 1.06193660
6 -2.49777279 -0.74071203 2.33250290
1 -1.54508932 -1.17687710 2.63002302

6 -3.58415686 -0.77581716 3.17610072
1 -3.50434431 -1.26116837 4.15108756
6 -4.82164673 -0.18670782 2.79653392
6 -5.94956500 -0.25210207 3.65593196
1 -5.83862048 -0.75084641 4.62124143
6 -7.16597817 0.29008550 3.28024958
1 -8.02808837 0.23327878 3.94612306
6 -7.28533667 0.89915991 2.01306222
1 -8.24768140 1.30248177 1.69318544
6 -6.19496552 0.97723153 1.15728430
1 -6.35104933 1.41380452 0.17164819
6 -4.92073065 0.46612861 1.52242953
6 -3.75436262 0.54432657 0.64182211
6 -3.86523011 1.35811635 -0.53612320
1 -4.67748815 2.08080106 -0.48951137
6 -3.10873729 1.35385108 -1.69852507
1 -2.33195439 0.60026493 -1.80446782
6 -3.31789114 2.24649248 -2.77092787
6 -4.30244171 3.43145404 -2.87364114
6 -3.96492972 3.99018043 -4.24738297
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1 -5.25863407 5.70853782 -4.51223502
6 -3.97636329 5.35783244 -6.22841256
1 -4.36744688 6.20856422 -6.78769406
6 -2.97473563 4.55662894 -6.79510038
1 -2.59428072 4.79103546 -7.79017965
6 -2.44833223 3.45711083 -6.10249830
1 -1.66486616 2.84026662 -6.54192912
6 -2.96631964 3.20066772 -4.82990618
6 -1.61322534 1.17795983 -4.30292679
1 -0.62652187 1.65278061 -4.38853429
1 -1.88513885 0.73293538 -5.26996550
1 -1.57493726 0.38663216 -3.55150733
6 -4.05260453 4.49807553 -1.78086335
1 -4.30847789 4.12314488 -0.78294226
1 -4.67457342 5.38179720 -1.98441825
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6 -5.77785984 2.94919588 -2.87139380

1 -5.94931573 2.19156536 -3.64798780
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9 3.76861318 3.82224836 2.30047261
9 4.84321314 2.23382241 1.23804003
9 4.75305609 4.25232915 0.39116664
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9 -1.97034463 5.75279816 0.95179767
9 -3.70255351 4.60800006 1.66161396
9 -2.43931411 5.69125719 3.08809943
9 -1.19756729 2.25415987 5.95871172
9 -0.67046440 0.24976121 5.25679257
9 0.88680959 1.77591701 5.48440458
8 1.07581198 -0.64735313 -0.39343278
8 2.06295311 2.02128893 0.96729152
8 0.37143914 2.34509648 -1.34039519
8 -1.15584469 3.18625489 0.97246633
8 -0.02844420 1.23893542 2.77420071
7 3.40185593 -1.63044633 3.76094484
6 1.00324115 4.00235978 -2.91784110
6 1.98738473 -0.59683943 -1.36880538
6 1.54073121 -0.43828894 -2.71275124
1 0.46637591 -0.39238274 -2.87393551
6 2.41453424 -0.35232574 -3.76947331

1 2.03404547 -0.23336740 -4.78668223
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6 4.72265315 -0.21904254 -4.64748179
1 4.31092793 -0.11281268 -5.65367531
6 6.09186103 -0.18830225 -4.44148215
1 6.77652866 -0.06599812 -5.28181545
6 6.59145375 -0.29197551 -3.12653713
1 7.66649480 -0.23241527 -2.94776600
6 5.72838925 -0.45108396 -2.04953712
1 6.15707833 -0.47490336 -1.04802509
6 4.32180174 -0.53041423 -2.22709509
6 3.39400196 -0.72831233 -1.11211747
6 3.94103364 -1.15208874 0.13607805
1 4.96470236 -1.51667293 0.06487113
6 3.35875696 -1.19069855 1.39475573
1 2.36141080 -0.77952800 1.51806456
6 3.98892349 -1.71839649 2.53623328
6 5.33114554 -2.45745815 2.67772820
6 5.32992349 -2.79141334 4.16309635
6 6.25817943 -3.47456865 4.94229352
1 7.16569409 -3.89044897 4.49965308
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1 6.72473311 -4.16342685 6.94069131
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1 4.66621329 -3.22219734 7.96152598
6 3.90383170 -2.40294407 6.12035272
1 3.00252874 -1.99752173 6.57893089
6 4.17113189 -2.26575574 4.75505365
6 2.14812845 -0.92530428 4.01122417
1 1.34288593 -1.35733306 3.40298195
1 1.88859253 -1.01502888 5.06889702
1 2.25628982 0.13573951 3.75192738
6 5.38042590 -3.74597337 1.82133092
1 5.35602117 -3.51554490 0.74819773
1 6.30987280 -4.29412192 2.03359313
1 4.53266854 -4.40562620 2.04658526
6 6.53195845 -1.52520464 2.36373516
1 6.48126316 -0.60012379 2.95349502

1	7.46962872	-2.04169018	2.61465320
1	6.56982329	-1.25418471	1.30100431
6	4.03947238	3.31743707	1.07041060
6	2.72207453	2.90693689	0.35220087
6	2.39794851	3.55039056	-0.85538279
1	3.05784035	4.32636136	-1.22956439
6	1.24596085	3.22099370	-1.59304259
6	-2.41191723	4.95454460	1.94801762
6	-1.54014862	3.66950697	2.07341062
6	-1.31925947	3.17709151	3.37146671
1	-1.72656336	3.72388101	4.21610490
6	-0.58857213	2.00034943	3.60994802
6	-0.40374808	1.57194089	5.09660209

{[Mn(acac)₂](TMI-NPS)}₂ dimer, S = 5

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1	-4.53549557	-3.77386847	0.36224864
1	-3.89350247	-5.29004467	1.02354581
1	0.02824411	-3.27358843	4.47764191
1	-0.28162268	-4.95017817	3.99900772
1	1.21979172	-4.14538560	3.50182464
1	1.95283348	-5.80512863	-0.40405129
1	3.19699955	-4.87913656	-1.26779196
1	2.14083372	-5.98645425	-2.16048412
1	-0.72353199	-3.70929251	-5.08636510
1	-0.60944690	-1.94423842	-5.01433059
1	-2.06047189	-2.76040933	-4.40920492
8	-1.28785377	0.23621109	0.39343291
8	-2.12010277	-2.69005486	0.00994610
8	0.02036716	-2.39217559	1.91017611
8	1.09934029	-3.31608668	-0.51651934
8	-0.64811990	-1.88947629	-2.31451129
7	-3.49516979	1.49173377	-3.72955255
6	0.14093301	-3.99472674	3.65468338
6	-2.18071508	0.32791906	1.37313159
6	-1.74250908	0.06568835	2.70828539
1	-0.69628941	-0.19854963	2.84244580

6	-2.58516241	0.15579076	3.78649266
1	-2.20751348	-0.04521301	4.79198492
6	-3.96129302	0.49478725	3.62568651
6	-4.82919360	0.54049277	4.74536062
1	-4.41448303	0.33129465	5.73395316
6	-6.17507557	0.83243389	4.59396641
1	-6.83788002	0.86420293	5.45958268
6	-6.68197914	1.06652997	3.30017130
1	-7.74586511	1.26738654	3.16218547
6	-5.84642849	1.02879157	2.18991451
1	-6.30006064	1.17001466	1.20943585
6	-4.45631739	0.77044370	2.31035741
6	-3.54363617	0.74154384	1.16216284
6	-4.03230758	1.21217321	-0.08733331
1	-4.98181705	1.74083391	-0.02331872
6	-3.47315887	1.11387289	-1.35479370
1	-2.55042161	0.55264967	-1.47271791
6	-4.04071406	1.69523903	-2.50348202
6	-5.26184018	2.62212446	-2.64939058
6	-5.24352330	2.90433840	-4.14494234
6	-6.07870757	3.68952363	-4.93355482
1	-6.91270154	4.24045387	-4.49401285
6	-5.82872156	3.76840702	-6.31424140
1	-6.47194637	4.38234486	-6.94568635
6	-4.75739914	3.06845520	-6.88652099
1	-4.57419381	3.14347523	-7.95916659
6	-3.90952977	2.27243418	-6.10363199
1	-3.07419922	1.74024774	-6.55747890
6	-4.17931930	2.20720372	-4.73434625
6	-2.33149756	0.64324085	-3.97102878
1	-1.43875552	1.10072954	-3.52406014
1	-2.18672931	0.52680945	-5.04808895
1	-2.48869081	-0.34455673	-3.52210668
6	-5.08790575	3.93368504	-1.84467341
1	-5.07837531	3.74495399	-0.76361586
1	-5.92270380	4.61371556	-2.06807192
1	-4.15054660	4.44004752	-2.10840632
6	-6.58238719	1.89771598	-2.27782659

1 -6.69066255 0.95732752 -2.83489894
1 -7.43474260 2.54485006 -2.52931729
1 -6.63677918 1.67152647 -1.20542369
6 -3.66540585 -4.44684028 0.35498145
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25 0.27955107 1.70538971 0.10799888
1 3.52686389 4.97831493 0.48074696
1 4.49651535 3.92419646 -0.57233318
1 3.79161761 5.41967485 -1.21692369
1 -0.20938567 3.28751746 -4.52135833
1 0.09849911 4.97224318 -4.07098694
1 -1.37155109 4.15454089 -3.50627836
1 -1.85309940 5.88719656 0.41509147
1 -3.09904519 4.95874935 1.27314875
1 -2.02891599 6.04620663 2.17487387
1 1.06627640 3.87355165 4.93471006
1 0.81120010 2.12246509 4.96710244
1 2.29081128 2.78480972 4.25325200
8 1.33034753 -0.18571331 -0.41213692
8 2.12500019 2.77510136 -0.13961399
8 -0.07839360 2.42268033 -1.95629662
8 -1.06858959 3.35338183 0.51358996
8 0.76939049 1.95558980 2.24630055
7 3.41343987 -1.52427164 3.75243228
6 -0.29796500 4.01513980 -3.70116357
6 2.24593692 -0.28204230 -1.37076980
6 1.85441502 0.03947880 -2.70725105
1 0.82569858 0.35829476 -2.85987672
6 2.72016827 -0.05971577 -3.76614607

1 2.37875058 0.18729474 -4.77433688
6 4.07323282 -0.47145873 -3.58244502
6 4.96292541 -0.53318270 -4.68418626
1 4.58152183 -0.27769783 -5.67529714
6 6.28813675 -0.89834684 -4.51232518
1 6.96799216 -0.94226099 -5.36405762
6 6.75200296 -1.19292643 -3.21482714
1 7.80014689 -1.45468356 -3.05955246
6 5.89475445 -1.13958395 -2.12196313
1 6.31921932 -1.33498045 -1.13790172
6 4.52311186 -0.80400304 -2.26380916
6 3.58605468 -0.75366240 -1.13527174
6 4.03085301 -1.24854818 0.12139184
1 4.96716111 -1.80164122 0.07682161
6 3.44698047 -1.14133323 1.37711787
1 2.53242156 -0.56320579 1.47554238
6 3.98043028 -1.73340583 2.53679378
6 5.18531719 -2.67802262 2.70641654
6 5.13175713 -2.96353321 4.20042575
6 5.93847262 -3.76272354 5.00448466
1 6.77470206 -4.32327312 4.58167511
6 5.65608339 -3.84360419 6.37881244
1 6.27679822 -4.46833227 7.02209387
6 4.58084734 -3.13245946 6.92955953
1 4.37179613 -3.21010263 7.99728012
6 3.76147501 -2.32230781 6.13093672
1 2.92159831 -1.78254711 6.56710154
6 4.06422710 -2.25450349 4.76868138
6 2.25575126 -0.66384552 3.97722571
1 1.35274006 -1.14195740 3.57411414
1 2.13683024 -0.49241310 5.05042670
1 2.40305688 0.29985263 3.47638105
6 5.00985784 -3.98671066 1.89751029
1 5.02638841 -3.79864484 0.81657190
1 5.82951657 -4.67881137 2.13909205
1 4.05969584 -4.47924868 2.14112017
6 6.52320725 -1.97161364 2.36376483
1 6.63439277 -1.03525269 2.92705313

1	7.36103859	-2.63222068	2.62875641
1	6.60174954	-1.74093695	1.29380069
6	3.60899722	4.57317662	-0.53862395
6	2.33219926	3.75951680	-0.89935546
6	1.56043446	4.18760362	-1.99695545
1	1.86379227	5.07936383	-2.53580560
6	0.42923526	3.47816195	-2.43429069
6	-2.06611517	5.33103561	1.33992080
6	-1.08161168	4.13565762	1.50099828
6	-0.34476768	4.04455450	2.69600960
1	-0.45476029	4.82531199	3.44150865
6	0.50841198	2.96025022	2.96619778
6	1.20798251	2.94781501	4.35770830

{[Mn(acac)₂]₂(TMI-NPS)₂} complex, Sz = 4

25	-1.68775017	-2.87484364	0.04273997
1	-2.10356959	-7.48204982	-0.09705737
1	-3.65715023	-7.13297704	0.66978200
1	-2.30331161	-7.75822505	1.66373584
1	-0.93007083	-2.99809482	4.50380867
1	-0.42556324	-4.71671636	4.59046985
1	0.63303634	-3.49481217	3.82954657
1	2.06744850	-5.14076771	-0.88330136
1	2.68852187	-3.50296636	-1.14914148
1	2.34399492	-4.54911680	-2.55808116
1	-1.34522778	-2.96969644	-5.01777507
1	-2.16169261	-1.54154965	-4.30542594
1	-2.94709007	-3.12184203	-4.22483580
8	-3.22071717	-1.81737147	0.41821263
8	-2.39468037	-4.84667915	0.10370131
8	-1.17152342	-2.96113903	1.90300020
8	0.10544269	-3.48552574	-0.38838315
8	-2.01127920	-2.45847438	-1.82980953
7	-2.81446204	2.08638946	-2.16934128
6	-0.41203459	-3.81076715	3.97324367
6	-4.21465188	-1.77845063	1.27511327
6	-4.46594832	-2.89353422	2.13258692
1	-3.80483319	-3.75505529	2.05002237

6 -5.51823416 -2.90660173 3.01389132
1 -5.69373127 -3.78060512 3.64588610
6 -6.40230258 -1.79087066 3.12591981
6 -7.47178380 -1.81609859 4.05638865
1 -7.60162306 -2.71039386 4.67100074
6 -8.33424383 -0.74005735 4.19369802
1 -9.15352109 -0.77158729 4.91355773
6 -8.13014756 0.40113332 3.39289905
1 -8.79086587 1.26412940 3.49571137
6 -7.08895189 0.44569551 2.47265385
1 -6.97052828 1.36069975 1.89343012
6 -6.19453593 -0.64244545 2.29060322
6 -5.09237148 -0.62564922 1.31850371
6 -4.95151015 0.49182255 0.45508867
1 -5.74547774 1.23223344 0.52901761
6 -3.93513064 0.77099768 -0.47510791
1 -3.12471340 0.05129287 -0.55062136
6 -3.87769958 1.88757981 -1.30717110
6 -4.87202250 3.05118510 -1.48262043
6 -4.17309883 3.88725792 -2.54865723
6 -4.54991748 5.08092109 -3.15400018
1 -5.49144946 5.56846929 -2.89069493
6 -3.70038403 5.66036260 -4.11462792
1 -3.98320959 6.59732455 -4.59596823
6 -2.48718675 5.04214536 -4.44646649
1 -1.82647480 5.50705441 -5.18019233
6 -2.09235459 3.83909860 -3.84298198
1 -1.13278790 3.38676395 -4.09248641
6 -2.95802966 3.27144386 -2.89982643
6 -1.67859239 1.18321964 -2.28461452
1 -1.01013451 1.26108976 -1.41395495
1 -1.10750519 1.43688523 -3.18374886
1 -2.03246152 0.14557073 -2.36659075
6 -5.03630211 3.88290146 -0.18577265
1 -5.50195605 3.29595927 0.61682297
1 -5.67330322 4.75807718 -0.38322017
1 -4.06267084 4.24224272 0.17352743
6 -6.24540963 2.55348497 -1.99862338

1 -6.12968785 1.97832148 -2.92737020
1 -6.90106655 3.41242397 -2.20610990
1 -6.74263458 1.91064980 -1.25996858
6 -2.56812086 -7.10244471 0.82531658
6 -2.13684209 -5.66566331 1.04562166
6 -1.49725813 -5.31595312 2.26529796
1 -1.33949787 -6.10972239 2.99345181
6 -1.06211911 -4.03084738 2.62556465
6 2.00859140 -4.26967170 -1.55258296
6 0.60181176 -3.72712468 -1.55424255
6 -0.07586664 -3.50551713 -2.76654029
1 0.42277847 -3.77972050 -3.69355159
6 -1.32945021 -2.87896085 -2.84504204
6 -1.96904728 -2.61889567 -4.18757021
25 1.86549217 2.89550128 -0.74160943
1 4.51822716 4.23958762 2.91127869
1 4.86447696 2.50889998 2.83043111
1 6.08984384 3.68602252 2.25514060
1 5.63105830 3.30203441 -3.38761524
1 6.63072240 4.30738407 -2.28968330
1 5.23505574 5.01094396 -3.16866922
1 0.20410049 7.14655556 -0.96748078
1 -1.00447550 6.41543149 -2.03280186
1 -1.46362206 6.86543288 -0.36254878
1 -2.26341072 3.25323142 2.41809275
1 -1.87375659 1.60597428 1.82963936
1 -0.79293634 2.40969626 2.98357413
8 1.88006834 1.02264990 -1.55640644
8 3.12243710 3.08187674 0.93191320
8 3.45297049 3.50791900 -1.89185184
8 0.77638440 4.58692094 -1.19594595
8 0.27629178 2.35524447 0.50201332
7 2.56580835 -0.80193894 2.72067027
6 5.61190592 4.11723495 -2.64866322
6 2.67034143 0.49854339 -2.44184389
6 2.60567834 0.97383127 -3.79785842
1 1.90362110 1.78472469 -3.99786113
6 3.39874353 0.46014945 -4.78808191

1 3.32744483 0.84671843 -5.80804845
6 4.33868596 -0.58666296 -4.52089434
6 5.13298096 -1.11891156 -5.56557138
1 5.01688328 -0.70302969 -6.56940295
6 6.03695049 -2.14519093 -5.33223977
1 6.64369334 -2.54693507 -6.14495485
6 6.14929704 -2.67064774 -4.03071185
1 6.84076680 -3.49198227 -3.83297261
6 5.37705755 -2.16243569 -2.99095385
1 5.48125319 -2.62587350 -2.00990924
6 4.46217671 -1.09531546 -3.18602791
6 3.64297925 -0.52945633 -2.10788618
6 3.86372056 -0.95207402 -0.77409399
1 4.75771254 -1.55673179 -0.62330310
6 3.08583580 -0.68983291 0.36343155
1 2.15520094 -0.14931401 0.20996390
6 3.40743010 -1.07074576 1.66693353
6 4.65563434 -1.79492260 2.20800912
6 4.34955232 -1.85193826 3.69871961
6 5.08373319 -2.37692559 4.75674626
1 6.06036983 -2.83591522 4.58760306
6 4.55142227 -2.31027820 6.05707392
1 5.11684631 -2.71646688 6.89649698
6 3.29659276 -1.72707580 6.27806864
1 2.89104141 -1.68507508 7.29014724
6 2.54442696 -1.19477725 5.22054591
1 1.56619727 -0.75216758 5.40731353
6 3.09575738 -1.26379526 3.93577419
6 1.25781057 -0.16614860 2.59708236
1 0.51318949 -0.88170520 2.21533829
1 0.94101942 0.18392003 3.58552625
1 1.30491901 0.70018687 1.92393966
6 4.77062832 -3.23596367 1.64693651
1 4.97576819 -3.23613599 0.56841216
1 5.59379105 -3.76379770 2.15043432
1 3.84347095 -3.79957849 1.81866131
6 5.95202324 -0.98992019 1.94745085
1 5.87403406 0.02536152 2.35923200

1	6.80438120	-1.49085253	2.42984134
1	6.16452062	-0.90653302	0.87354156
6	5.01650178	3.46523109	2.30789782
6	4.35848298	3.40697787	0.93980328
6	5.13291931	3.72117880	-0.20040419
1	6.18059752	3.97123423	-0.04156323
6	4.65458547	3.75438814	-1.52925287
6	-0.65793596	6.46356769	-0.98899801
6	-0.21052036	5.08334881	-0.55108189
6	-0.89180513	4.44235190	0.50964697
1	-1.69440832	4.99400826	0.99626444
6	-0.62494145	3.13730985	0.97449400
6	-1.45155706	2.58013669	2.11737047

{[Mn(hfac)₂](TMI-NPS)₂} complex, $S = 5/2$

8	-1.88123572	-0.82879742	-0.20978579
7	-3.31569442	1.47872307	-4.04551999
6	-2.83478868	-0.87813183	0.65759661
6	-2.75244099	-1.84074443	1.72743543
1	-1.89966725	-2.51968461	1.70469883
6	-3.67753285	-1.88368999	2.73315206
1	-3.58295309	-2.61993215	3.53577897
6	-4.77062004	-0.95809605	2.79054981
6	-5.67520657	-0.98883353	3.87880659
1	-5.52581679	-1.73951717	4.65846886
6	-6.72398823	-0.08475372	3.96628035
1	-7.41330138	-0.11293719	4.81114492
6	-6.87772313	0.87921925	2.95211922
1	-7.68527740	1.61091310	3.01510113
6	-6.00642864	0.91768586	1.86813387
1	-6.15929125	1.69921415	1.12427568
6	-4.93209786	0.00127217	1.73937062
6	-3.99995428	-0.00227599	0.60472337
6	-4.27686186	0.80057555	-0.52207859
1	-5.15334201	1.44142498	-0.43803581
6	-3.61422295	0.80914909	-1.75503238
1	-2.76794923	0.13493776	-1.86410473
6	-3.95734063	1.61212806	-2.84428350

6	-4.99078766	2.74749314	-2.95982917
6	-4.78376762	3.19631010	-4.40024403
6	-5.40754341	4.19708437	-5.13811748
1	-6.18282895	4.82285949	-4.69091188
6	-5.02292680	4.39704269	-6.47549871
1	-5.50125966	5.17959158	-7.06555155
6	-4.02810141	3.59806704	-7.05465409
1	-3.73805051	3.76395872	-8.09315313
6	-3.39150654	2.58518476	-6.32273228
1	-2.61661128	1.97446934	-6.78547835
6	-3.78778067	2.40522745	-4.99424183
6	-2.29289351	0.47349651	-4.31108848
1	-1.49312790	0.54128791	-3.56071524
1	-1.86313015	0.65044091	-5.30118069
1	-2.73299226	-0.53489634	-4.28262409
6	-4.67223485	3.89929049	-1.97516370
1	-4.77019876	3.57236910	-0.93165894
1	-5.36720424	4.73495890	-2.14378112
1	-3.64788384	4.26800097	-2.11758943
6	-6.44212760	2.23271976	-2.77829348
1	-6.65483808	1.39952731	-3.46199049
1	-7.14980038	3.04468622	-2.99991639
1	-6.62994793	1.89124061	-1.75231853
25	0.01119695	0.02179457	0.00530392
9	3.49909859	2.88669758	1.68727593
9	4.70522764	1.50377568	0.48705417
9	4.31106762	3.53225742	-0.24150845
9	0.69427127	1.93614364	-4.57176789
9	1.44139469	3.84139065	-3.79381384
9	-0.65759166	3.29322926	-3.50366917
9	-0.90114394	4.61516262	1.14311330
9	-2.88367268	3.74758740	1.49610131
9	-1.60142729	4.28049173	3.19101990
9	0.15457350	0.76066058	5.52814660
9	-0.44306807	-1.22763141	4.83333990
9	1.61696046	-0.53409069	4.54077718
8	1.03233766	-1.64255891	-0.72840425
8	1.92817895	0.98785457	0.38456918

8 0.13359217 1.12743458 -1.91538592
8 -0.93278913 1.86629607 0.68698039
8 0.11966300 -0.41495806 2.17827863
7 2.65490651 -3.37317480 3.32824043
6 0.61256059 2.80413682 -3.51976359
6 1.95837113 -1.67693129 -1.62584484
6 1.58736663 -1.54855208 -3.01283554
1 0.52003229 -1.48459954 -3.22583447
6 2.52287643 -1.48175552 -4.00751480
1 2.21025167 -1.37558478 -5.04972720
6 3.92748352 -1.51512860 -3.72341761
6 4.87035464 -1.38245089 -4.77076714
1 4.50036576 -1.26840624 -5.79244247
6 6.23380353 -1.38680884 -4.51412567
1 6.95297086 -1.27925516 -5.32712619
6 6.67531007 -1.52061097 -3.18425418
1 7.74389637 -1.50681157 -2.96193890
6 5.76447767 -1.66455774 -2.14249020
1 6.16215933 -1.74293512 -1.13098092
6 4.36477151 -1.67703863 -2.36912250
6 3.37077640 -1.84149289 -1.30077948
6 3.79923522 -2.19628670 -0.00397027
1 4.87783809 -2.25071285 0.13608215
6 3.00925474 -2.56419909 1.09135693
1 1.93178469 -2.56302555 0.94403763
6 3.49869480 -2.92833402 2.34713479
6 4.93179078 -2.88975976 2.90840242
6 4.70808777 -3.37096076 4.33580943
6 5.60578658 -3.55990044 5.38153562
1 6.66904275 -3.34618610 5.25317060
6 5.12386281 -4.02938876 6.61596799
1 5.81538620 -4.17973549 7.44575022
6 3.76054420 -4.30416141 6.78724368
1 3.39910788 -4.66714876 7.75043225
6 2.84462309 -4.11888368 5.74146988
1 1.78659062 -4.33295513 5.89084049
6 3.34505249 -3.64923651 4.52357236
6 1.22152652 -3.56464873 3.13912450

1	1.03683490	-4.38154439	2.42506160
1	0.76206292	-3.81577724	4.09942385
1	0.76449313	-2.64043009	2.75935317
6	5.87414615	-3.87434361	2.16895571
1	6.05570237	-3.56626300	1.13129911
1	6.84389982	-3.91053691	2.68621729
1	5.45559359	-4.89003018	2.15741645
6	5.49934144	-1.44904899	2.89785704
1	4.83473661	-0.75940454	3.43469694
1	6.48333323	-1.43389075	3.38908596
1	5.61765261	-1.07320487	1.87310035
6	3.75782419	2.48095777	0.41975897
6	2.46603424	1.92802219	-0.25380804
6	2.05740923	2.51343299	-1.46903582
1	2.63519883	3.34065045	-1.86812941
6	0.93363670	2.06728065	-2.18543568
6	-1.59355075	3.75991483	1.93504691
6	-0.98806948	2.32616833	1.85575092
6	-0.58965040	1.71517056	3.06181190
1	-0.68878689	2.27514443	3.98594432
6	-0.07119651	0.41009269	3.11591519
6	0.31581942	-0.13467605	4.52300453

{[Mn(hfac)₂](TMI-NPS)} complex, $S = 5/2$

25	1.84241487	-2.36815752	0.18325708
9	-1.71562494	-3.33178734	-3.04266316
9	-2.33297501	-1.56703008	-1.89839708
9	-3.25042690	-3.51573215	-1.49219912
9	-0.60073258	-4.20500064	3.73234975
9	-2.03272027	-5.38491679	2.56514421
9	0.03395475	-6.07680912	2.78307999
9	6.08867801	-4.21669170	1.69610576
9	5.79783056	-2.28922109	2.70004734
9	7.22852178	-2.46211634	1.04833688
9	5.91224668	-0.39339581	-2.89213282
9	3.99810968	0.66002570	-2.71565123
9	4.14409132	-1.15549108	-3.93551421
8	1.32511984	-0.60913671	1.04476914

8 0.16118523 -2.64049981 -1.09859573
8 0.91951756 -3.82543200 1.38285367
8 3.72391025 -2.95152553 0.90749317
8 2.91265879 -1.66006028 -1.49896330
7 -0.69045786 1.29945103 -2.66613170
6 -0.73721543 -4.97600329 2.62260238
6 0.85938481 -0.16586327 2.16633324
6 1.25663645 -0.79871042 3.39464704
1 1.93137672 -1.65337710 3.32043882
6 0.80780346 -0.34943096 4.60675858
1 1.12450297 -0.85063192 5.52486319
6 -0.06114135 0.78396027 4.71621034
6 -0.47095080 1.24782655 5.98944463
1 -0.12381598 0.71148758 6.87545548
6 -1.28837603 2.36126630 6.11740791
1 -1.59778852 2.71289029 7.10232599
6 -1.70001168 3.04225226 4.95605150
1 -2.32444660 3.93342674 5.04129686
6 -1.31008614 2.60072408 3.69558699
1 -1.62943263 3.18404851 2.83192268
6 -0.49750087 1.45149620 3.52655989
6 -0.07986312 0.94327738 2.21588856
6 -0.66211125 1.48138997 1.04303903
1 -1.47076049 2.19179074 1.21457846
6 -0.36192294 1.18444105 -0.29005400
1 0.46409912 0.50330765 -0.47031150
6 -1.05757315 1.66743674 -1.40544530
6 -2.27431911 2.60479147 -1.49447677
6 -2.49579705 2.66626607 -2.99907548
6 -3.44816685 3.34694286 -3.75099744
1 -4.20674439 3.96686704 -3.26859468
6 -3.42254495 3.22354814 -5.15083962
1 -4.16298708 3.74994201 -5.75406927
6 -2.45409772 2.42737699 -5.77719072
1 -2.44766625 2.33880154 -6.86433676
6 -1.48828630 1.73648822 -5.03146511
1 -0.74385192 1.11784561 -5.53188862
6 -1.53119655 1.87488646 -3.64136686

6	0.43291166	0.41276003	-2.96728955
1	1.36430705	0.82950053	-2.56183564
1	0.53211936	0.31459285	-4.05185348
1	0.27239676	-0.58258887	-2.52986405
6	-1.94493758	4.01620447	-0.94565810
1	-1.74515270	3.99440895	0.13365598
1	-2.79746677	4.68785680	-1.12156386
1	-1.06522826	4.44086396	-1.44799059
6	-3.51651623	2.00192204	-0.79175941
1	-3.73972944	0.99683695	-1.17363274
1	-4.39124938	2.64135015	-0.97926300
1	-3.37029452	1.93144770	0.29407882
6	-2.08104816	-2.90752427	-1.80899611
6	-0.94552794	-3.17034818	-0.78088790
6	-1.25360277	-3.92388738	0.36389509
1	-2.26150166	-4.30577366	0.49070042
6	-0.29398086	-4.17997896	1.36237066
6	6.01493589	-2.87958729	1.49678830
6	4.85483092	-2.53893065	0.51940251
6	5.15746546	-1.81390245	-0.64892112
1	6.18686345	-1.53002433	-0.84298148
6	4.15674707	-1.42637094	-1.55551514
6	4.57320858	-0.57606195	-2.78736770

[Mn(hfac)₂] complex, $S = 5/2$

25	-0.00548853	0.01463543	-0.00324962
9	-4.35934684	1.84699471	0.42480581
9	-3.19566839	2.93902146	1.92941803
9	-4.56864064	1.34752118	2.54795585
9	-0.44580177	-2.70101806	3.85793831
9	-2.63470722	-2.61700283	3.90551332
9	-1.61860529	-3.77633087	2.34856047
9	4.58099911	1.11114310	0.45362269
9	3.68381842	2.99190200	-0.23050121
9	4.83699858	1.75592520	-1.62465162
9	2.39322186	-0.52538394	-4.80612108
9	0.21920992	-0.26219102	-4.73344958
9	1.11939563	-2.14847893	-4.06878714

8	-1.67617670	1.05281345	0.53261809
8	-0.47301880	-1.41210081	1.37768036
8	1.82577983	0.91113707	0.02869643
8	0.30861445	-0.51314090	-1.94794326
6	-1.55544414	-2.64336648	3.08567997
6	-3.68468959	1.72342885	1.59146956
6	-2.51702915	0.71108220	1.42261727
6	-2.49957496	-0.43736302	2.23257501
1	-3.30079456	-0.58236642	2.95044789
6	-1.48433812	-1.40567446	2.14754367
6	3.96488913	1.71712299	-0.58760415
6	2.65071055	0.96362704	-0.93695066
6	2.50184605	0.43449670	-2.23049071
1	3.30818993	0.56715866	-2.94500073
6	1.34786553	-0.25888829	-2.63421076
6	1.27778569	-0.80470400	-4.08818221

[Mn(hfac)₂]⁻, complex charge= -1, S = 2

25	0.01375522	-0.03252022	0.00875487
9	-4.32666974	1.87038868	0.38873241
9	-3.16626504	2.95601580	1.89327624
9	-4.53432598	1.35728762	2.51057235
9	-0.46354860	-2.72466683	3.89425864
9	-2.65230119	-2.59291047	3.90653498
9	-1.63074684	-3.80360373	2.39036197
9	4.60531226	1.13687921	0.45061686
9	3.65823286	3.00148423	-0.19339266
9	4.79194197	1.79592545	-1.63230685
9	2.36513094	-0.47837594	-4.80142087
9	0.18425889	-0.25963891	-4.72893439
9	1.11416553	-2.14218222	-4.11261313
8	-1.62466037	1.05595694	0.48555434
8	-0.42770409	-1.45821544	1.37235160
8	1.81774137	0.87893856	0.09126905
8	0.27417934	-0.56779656	-1.92435332
6	-1.55996718	-2.62720577	3.08355193
6	-3.62576996	1.71447729	1.55212120
6	-2.47775839	0.71313487	1.38913595

6	-2.46153575	-0.43483297	2.20260735
1	-3.26793839	-0.56628481	2.91808823
6	-1.46133267	-1.42245557	2.14251238
6	3.92054973	1.71677139	-0.58073228
6	2.63302361	0.95265107	-0.90476219
6	2.46431034	0.43168100	-2.20083940
1	3.25992987	0.58912952	-2.92312219
6	1.32198645	-0.27659664	-2.61688455
6	1.25600581	-0.78343555	-4.06093852

[Mn(acac)₂] complex, $S = 5/2$

25	0.00010254	-0.02011062	0.00502339
1	-1.02655325	1.96097469	-4.03576770
6	-1.93656250	1.61691081	-3.52158868
1	-2.38618400	2.50028116	-3.04352474
1	-2.63760722	1.20559672	-4.25748303
1	-2.79609372	-0.90050623	-3.31090774
6	-2.11003079	-0.68311745	-2.49412126
6	-1.55339525	0.61513170	-2.45242118
8	-0.72820369	1.04313594	-1.56720525
8	-1.08083948	-1.64545570	-0.55466986
6	-1.85759033	-1.72506140	-1.57384666
6	-2.53841730	-3.06367424	-1.76835059
1	-1.77151082	-3.84217026	-1.89960662
1	-3.21618609	-3.07354028	-2.63018174
1	-3.09985988	-3.31851662	-0.85714288
8	2.00921684	-0.17992573	0.26000686
8	-0.20802918	0.72908112	1.88304209
1	4.56604832	0.52440657	0.37976367
6	4.16677271	-0.05188633	1.22803617
1	4.37163882	-1.11235975	1.01734281
1	4.68726673	0.24436711	2.14644618
6	2.66905504	0.15757102	1.30827493
6	2.11050082	0.69147352	2.49118006
1	2.79972278	0.92608949	3.30051955
6	0.73940731	0.94356399	2.72223203
6	0.30853101	1.50940574	4.05913292

1	-0.24756450	2.44434594	3.89435703
1	-0.38726387	0.80504268	4.54001695
1	1.15362894	1.69894638	4.73144328

[Mn(acac)₂]⁻ complex charge=-1, complex *S* = 2

25	0.00114008	0.00099669	0.00153365
1	-4.21069054	1.83381326	0.63117945
1	-3.27830038	2.70663000	1.85543162
1	-4.37046871	1.37709903	2.35698457
1	-0.66293767	-2.68649224	3.72288028
1	-2.45187559	-2.57798728	3.72770321
1	-1.59420011	-3.56365081	2.50084541
1	4.46583470	1.22597896	0.25196728
1	3.73022376	2.74440609	-0.28023975
1	4.62828952	1.73588405	-1.45858593
1	2.19155473	-0.54448862	-4.63077124
1	0.40862338	-0.36413657	-4.60418889
1	1.14012963	-1.88653215	-4.07769624
8	-1.64475179	1.08105561	0.48728984
8	-0.42068256	-1.44239623	1.36179824
8	1.81180604	0.90934165	0.08964244
8	0.25724354	-0.54609787	-1.93424612
6	-1.56142008	-2.62679010	3.08403986
6	-3.66395210	1.70884602	1.58214801
6	-2.50901976	0.73878456	1.39401393
6	-2.45028260	-0.43051638	2.18788809
1	-3.25850101	-0.57289674	2.90819112
6	-1.45485472	-1.43475178	2.14709433
6	3.94776174	1.70875614	-0.59502711
6	2.65198397	0.97448838	-0.89835103
6	2.45023296	0.42956012	-2.18804586
1	3.25734199	0.57108096	-2.90976250
6	1.31297800	-0.27897125	-2.64153760
6	1.27679360	-0.79101350	-4.07217908

{[Mn(hfac)₂][Zn(hfac)₂](TMI-NPS)₂} complex *S* = 5/2

25	-0.32929568	-1.62807502	-0.21819118
9	-3.53935965	-4.89127416	-1.35530904

9 -4.77562423 -3.77726009 0.07287163
9 -3.91736012 -5.71139748 0.64124659
9 -0.03065138 -3.62289141 4.42255357
9 -0.38940292 -5.61670118 3.58993540
9 1.44419972 -4.53634144 3.08055920
9 1.44965383 -5.99853061 -0.55778636
9 3.08490026 -4.94129733 -1.56638961
9 1.65129191 -6.11496362 -2.73630362
9 -1.53209028 -3.76975214 -5.13448902
9 -0.79052487 -1.71624237 -5.31900198
9 -2.69400848 -2.11394706 -4.30277881
8 -1.39725516 0.20676230 0.32235477
8 -2.18220861 -2.73192743 -0.17154536
8 -0.06483533 -2.58688190 1.76824085
8 1.00461503 -3.23443035 -0.77982289
8 -0.78077758 -1.65721243 -2.39230665
7 -2.87731101 2.05724907 -3.93403667
6 0.11104936 -4.39117304 3.30148613
6 -2.44139008 0.20814104 1.14680969
6 -2.26886592 -0.33235956 2.45768060
1 -1.28561212 -0.72476154 2.70979387
6 -3.28597106 -0.34503306 3.37853118
1 -3.11312134 -0.75948548 4.37475621
6 -4.57889058 0.16718717 3.06513323
6 -5.62323565 0.12045401 4.02284459
1 -5.40658350 -0.29885934 5.00784443
6 -6.89199676 0.58526998 3.71892094
1 -7.69130555 0.54562564 4.45992980
6 -7.14183244 1.09360125 2.42840660
1 -8.14307465 1.44001591 2.16624460
6 -6.13194517 1.14741853 1.47527123
1 -6.39457676 1.51090454 0.48250262
6 -4.81120652 0.71273301 1.76070574
6 -3.71670777 0.76597748 0.78621811
6 -3.95297350 1.43356824 -0.44892921
1 -4.86129820 2.03234273 -0.46439390
6 -3.20653164 1.42585687 -1.61897533
1 -2.31514866 0.80621721 -1.65709048

6 -3.55117456 2.17506540 -2.76044556
6 -4.65612077 3.23979920 -2.93299392
6 -4.40657942 3.70515299 -4.35951854
6 -5.04339704 4.67119811 -5.13268880
1 -5.87063479 5.25969041 -4.73083702
6 -4.59795681 4.88416583 -6.44874773
1 -5.08296513 5.64097915 -7.06638512
6 -3.53446844 4.13732443 -6.97508436
1 -3.20032129 4.31957261 -7.99726957
6 -2.88665160 3.15889539 -6.20738599
1 -2.05429228 2.58640250 -6.61559042
6 -3.34917838 2.96683844 -4.90350980
6 -1.79567071 1.12568645 -4.23355915
1 -0.83639791 1.65867142 -4.27118372
1 -1.98869869 0.66442455 -5.21046562
1 -1.74880395 0.33470045 -3.48051101
6 -4.49267076 4.41457623 -1.93891150
1 -4.65320010 4.09449909 -0.90194748
1 -5.22869904 5.19696480 -2.17440264
1 -3.48956215 4.85456400 -2.00656654
6 -6.07288259 2.61043946 -2.84840687
1 -6.17432517 1.76496620 -3.54223294
1 -6.82158614 3.36813518 -3.12014452
1 -6.30564488 2.25502263 -1.83689380
6 -3.67580223 -4.56245620 -0.04505321
6 -2.41450586 -3.80007816 0.45569215
6 -1.68255532 -4.35547889 1.52299134
1 -1.99723929 -5.30835015 1.93596124
6 -0.57687473 -3.69861754 2.08897486
6 1.77275455 -5.28586255 -1.66736696
6 0.89104792 -4.00749104 -1.76890969
6 0.08860602 -3.84282230 -2.91286079
1 0.07619379 -4.62585528 -3.66420854
6 -0.66987893 -2.67828111 -3.12891798
6 -1.43718658 -2.58712241 -4.48077427
30 0.18221138 1.62298071 0.49623388
9 3.53240308 4.54482532 2.03506796
9 4.75912856 3.21004078 0.80141443

9 4.23669905 5.20831171 0.06984776
9 0.71169919 3.48124652 -4.10814801
9 1.06963512 5.45977783 -3.24053833
9 -0.89778124 4.52410418 -3.04427119
9 -1.80326217 5.90664744 0.92174795
9 -3.51686191 4.68553604 1.54022196
9 -2.33702486 5.76292316 3.04011032
9 -0.24851992 2.82401548 5.85094679
9 -0.13445069 0.70862238 5.30349753
9 1.63055698 1.99543823 5.09725645
8 1.27301833 -0.19897587 -0.20898818
8 2.04309913 2.52457906 0.78649781
8 0.17115202 2.53941212 -1.44566743
8 -1.12324672 3.24447802 0.87401690
8 0.29686891 1.41189252 2.64309119
7 3.29259919 -1.95812637 3.80207029
6 0.43805386 4.28093681 -3.03034573
6 2.19424760 -0.18147000 -1.16146294
6 1.79774085 0.18797748 -2.48569252
1 0.75165821 0.44336661 -2.63261989
6 2.67963133 0.20968123 -3.53561271
1 2.33316256 0.48884351 -4.53383326
6 4.05841726 -0.10853139 -3.35475493
6 4.96878012 -0.02958949 -4.43808061
1 4.58656287 0.25903187 -5.41982531
6 6.31609242 -0.29974138 -4.25923188
1 7.01178025 -0.23457455 -5.09674908
6 6.78096085 -0.63795292 -2.97253922
1 7.84470903 -0.82085558 -2.81045017
6 5.90302143 -0.72494741 -1.89822504
1 6.32131276 -0.94003720 -0.91526052
6 4.51168798 -0.49269323 -2.05208752
6 3.55666864 -0.59496616 -0.94487946
6 4.00086501 -1.20381771 0.26057317
1 4.95550695 -1.72015736 0.17237429
6 3.38525827 -1.26114446 1.50375112
1 2.45958564 -0.71050857 1.64985507
6 3.89735513 -1.99676795 2.58852308

6	5.10851386	-2.94488037	2.66461156
6	5.02301022	-3.41979085	4.10813559
6	5.82259600	-4.30546707	4.82383684
1	6.67490490	-4.79975485	4.35316869
6	5.51255763	-4.56075898	6.17052965
1	6.12751877	-5.25481897	6.74455172
6	4.41811656	-3.93339864	6.78192821
1	4.18916952	-4.14404066	7.82738778
6	3.60537123	-3.03803267	6.07262746
1	2.75355725	-2.56109818	6.55622984
6	3.93346740	-2.79916062	4.73572817
6	2.11976980	-1.13882670	4.09638609
1	1.27508055	-1.45855414	3.47223130
1	1.85742029	-1.24924614	5.15131237
1	2.33984855	-0.08499340	3.88804088
6	4.96519123	-4.13859490	1.68812315
1	5.00142055	-3.80933845	0.64165566
1	5.78786686	-4.84898407	1.85478017
1	4.01623044	-4.66753667	1.84407467
6	6.44660110	-2.19044453	2.44910505
1	6.53274363	-1.33153717	3.12827055
1	7.28522536	-2.87197227	2.65117315
1	6.55027882	-1.82702234	1.41891691
6	3.76784032	4.13689806	0.76292276
6	2.47908047	3.51855883	0.14485774
6	1.95852453	4.10524917	-1.02304195
1	2.44267314	4.99072028	-1.42171174
6	0.85974474	3.56361601	-1.71279304
6	-2.25049271	5.06146836	1.88098375
6	-1.33520126	3.80460333	1.98213318
6	-0.88353696	3.42612675	3.25818788
1	-1.15139759	4.04201535	4.11028625
6	-0.11862676	2.26642409	3.47397813
6	0.27853549	1.95891484	4.95022062

{[Mn(hfac)₂] [Zn(hfac)₂][(TMI-NPS)₂] } complex $S = 3/2$

25	-0.38330251	-1.74457057	-0.30685854
9	-3.65856949	-4.85562852	-0.99398209

9 -4.61106289 -3.60390483 0.53093397
9 -3.81756259 -5.57497210 1.07007253
9 0.50893226 -3.57881197 4.32712996
9 0.10799297 -5.58180200 3.53374513
9 1.87001276 -4.46972213 2.85821631
9 0.78190921 -6.12357487 -0.96322891
9 2.35631289 -5.16521387 -2.14914131
9 0.68878200 -6.17155552 -3.15199749
9 -2.90051853 -3.61150790 -4.72907617
9 -1.76327256 -1.86311402 -5.40173429
9 -3.42480011 -1.61937872 -3.98993343
8 -1.38610029 -0.05536987 0.28048633
8 -1.99333116 -2.80294322 -0.14317535
8 0.22335297 -2.58189298 1.63810901
8 0.56828671 -3.32983631 -1.05497231
8 -1.21906366 -1.53508221 -2.43345473
7 -2.66608459 2.18117449 -3.95806290
6 0.55935365 -4.34815164 3.19712029
6 -2.51255996 -0.07865245 1.04929965
6 -2.44434691 -0.75182293 2.29600321
1 -1.49851256 -1.21950068 2.56320180
6 -3.50971768 -0.77225444 3.16609566
1 -3.42038006 -1.28321073 4.12704703
6 -4.73471507 -0.13115898 2.83639501
6 -5.83602797 -0.17585886 3.73141376
1 -5.71254976 -0.70444410 4.67913090
6 -7.04077403 0.42427710 3.41226053
1 -7.88264903 0.38353649 4.10462572
6 -7.17350051 1.07532278 2.16774209
1 -8.12643220 1.53045625 1.89229217
6 -6.10953237 1.13296214 1.27776545
1 -6.28286071 1.61386207 0.31636625
6 -4.84666221 0.55698214 1.58152942
6 -3.70229907 0.60789129 0.66647101
6 -3.83861213 1.39511614 -0.52557817
1 -4.67195916 2.09273900 -0.49321631
6 -3.09201119 1.39342792 -1.69439697
1 -2.27822262 0.67873851 -1.79029240

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