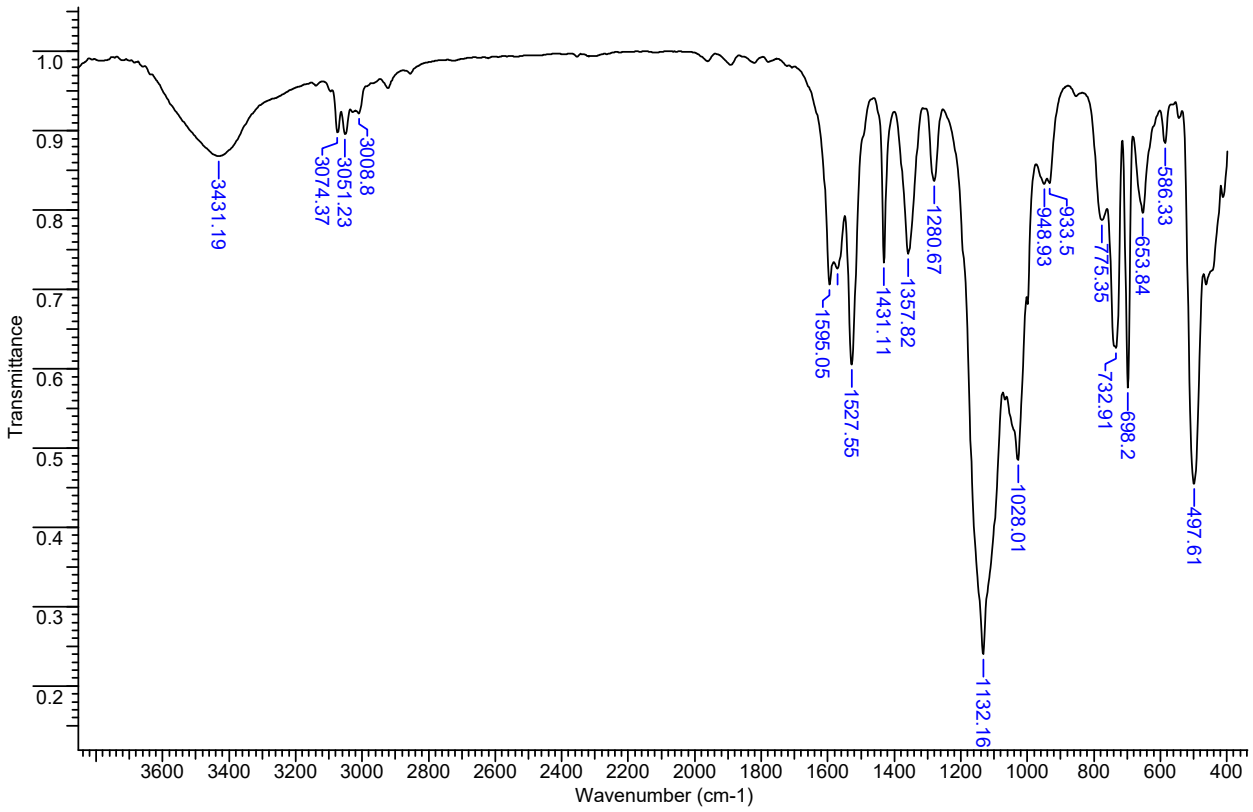

Figure S1. FT-IR spectra of fraction 1.1

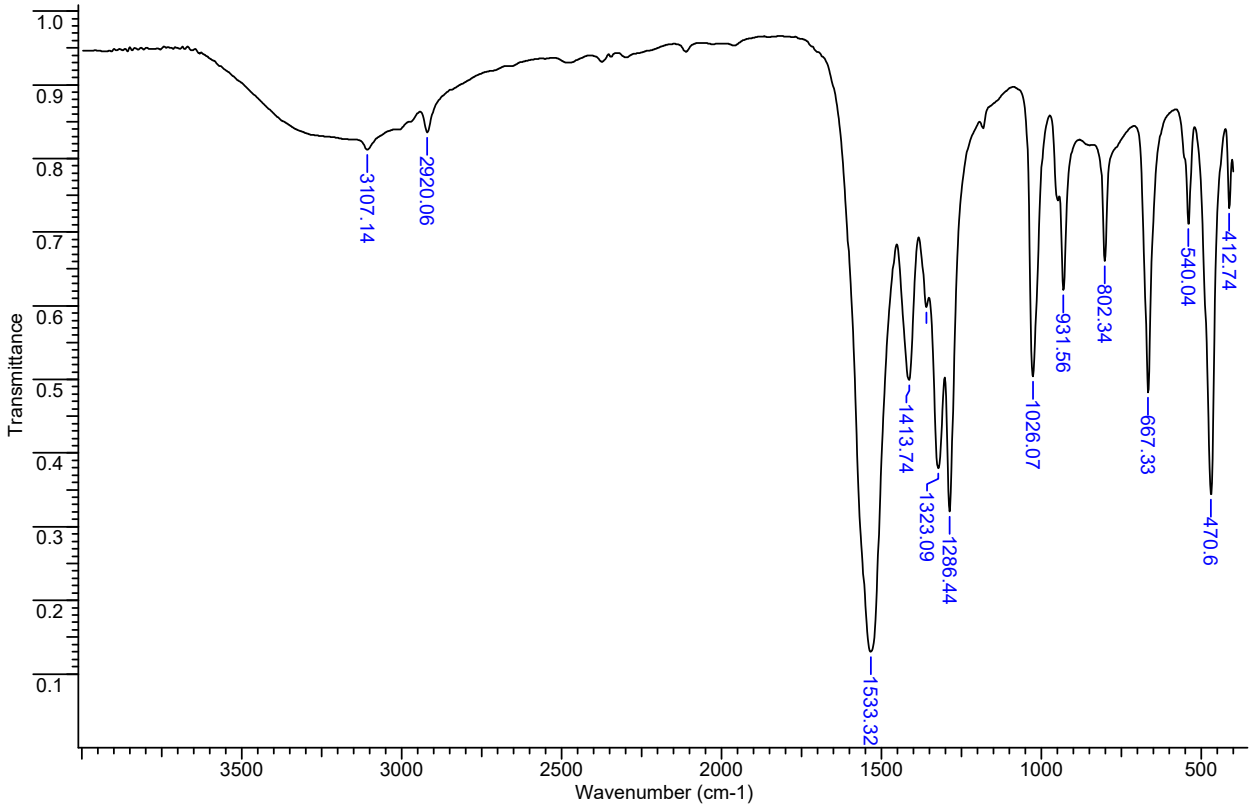

Figure S2. FT-IR spectra of initial complex 1

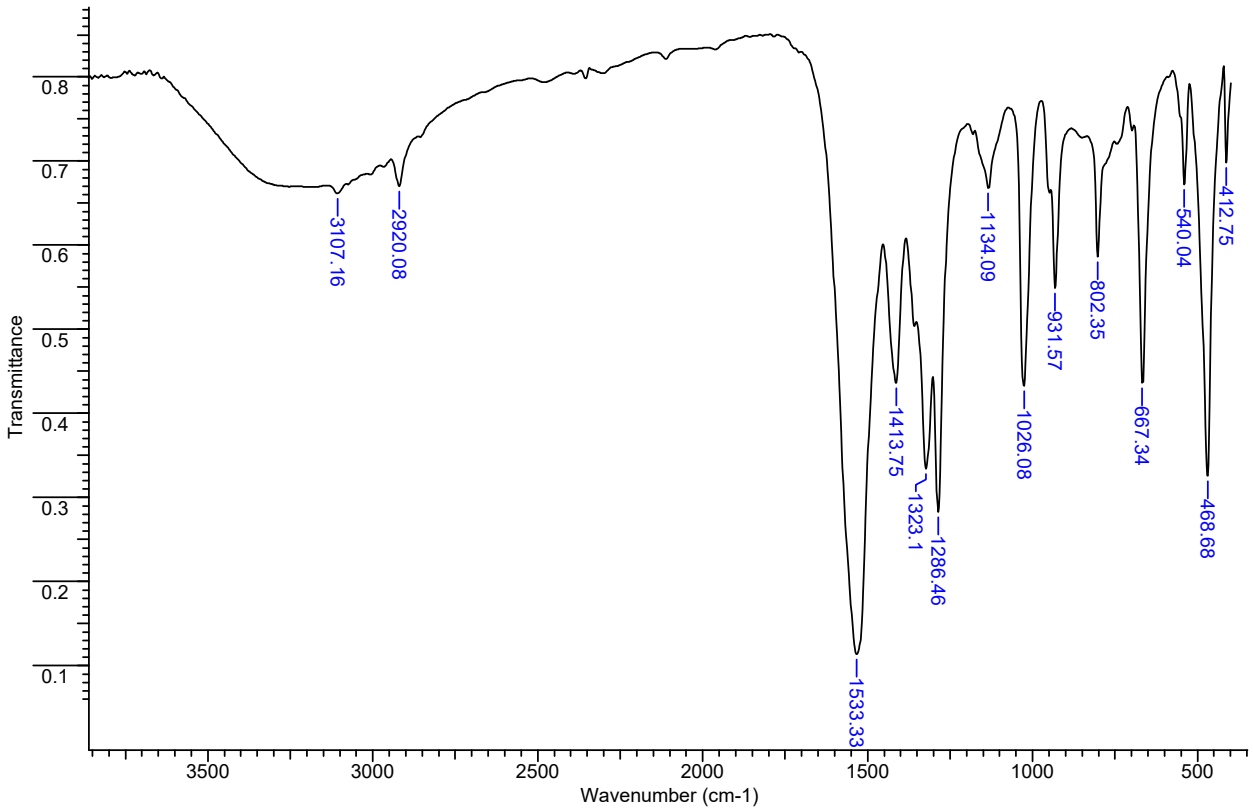

Figure S3. FT-IR spectra of insoluble fraction 1.2

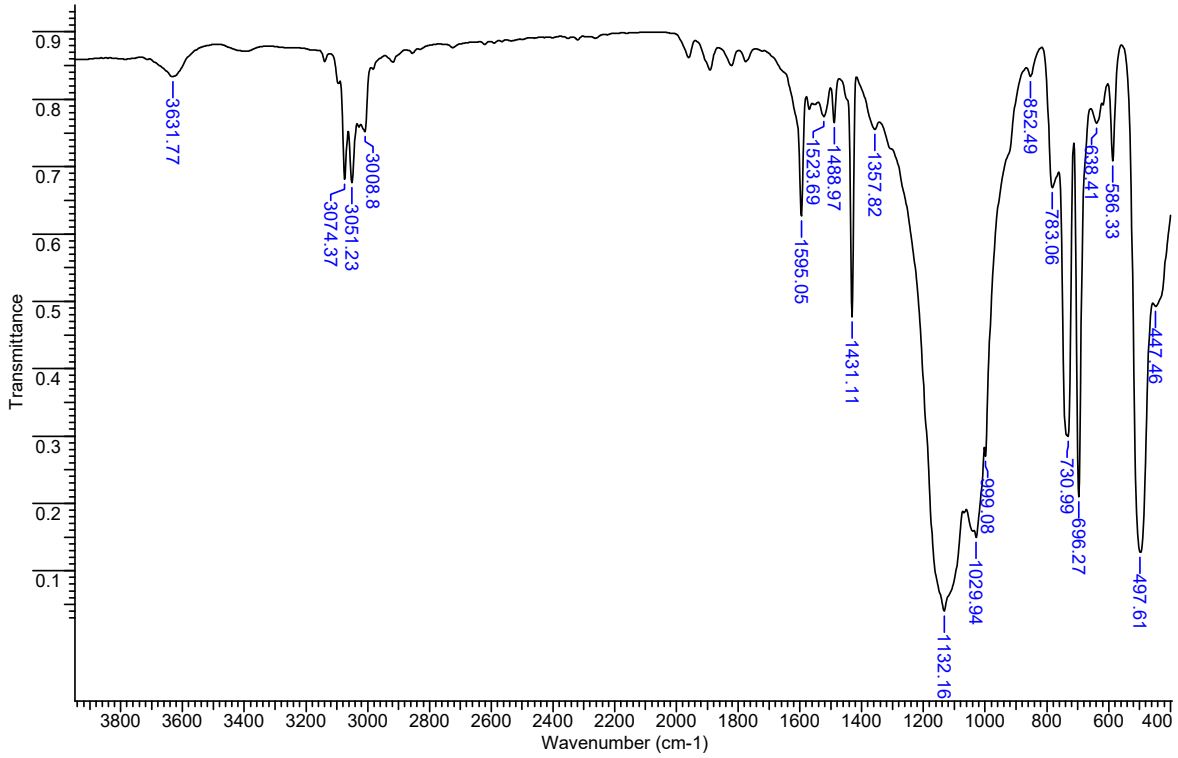

Figure S4. FT-IR spectra of insoluble fraction 2.1

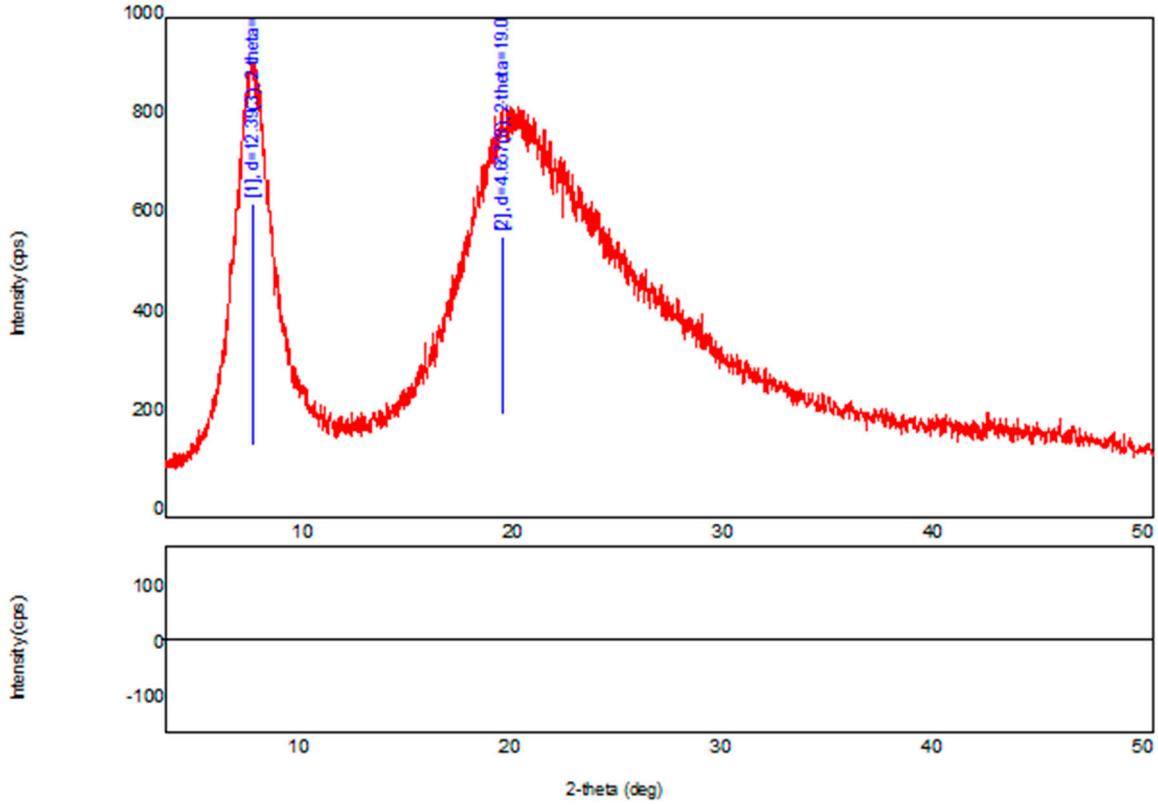

Figure S5. Diffraction pattern of fraction 2.1

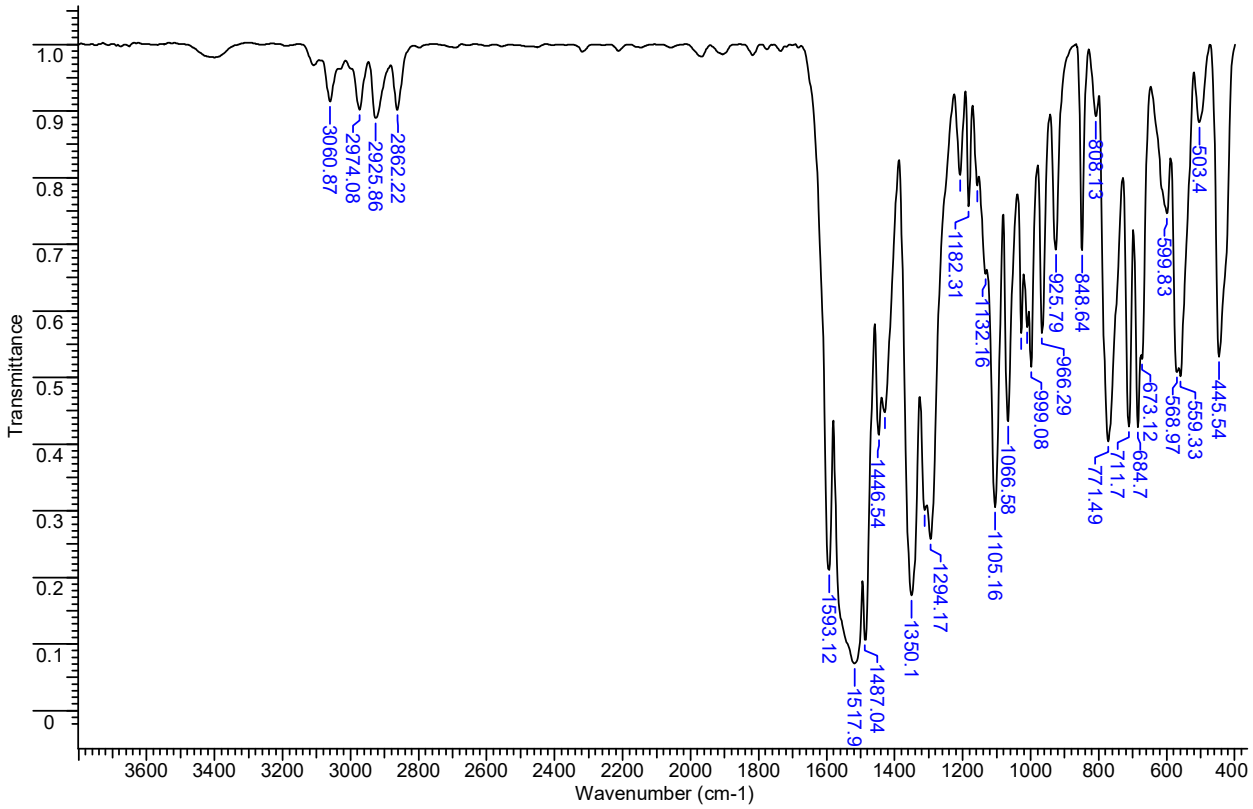

Figure S6. FT-IR spectra of fraction 2.2

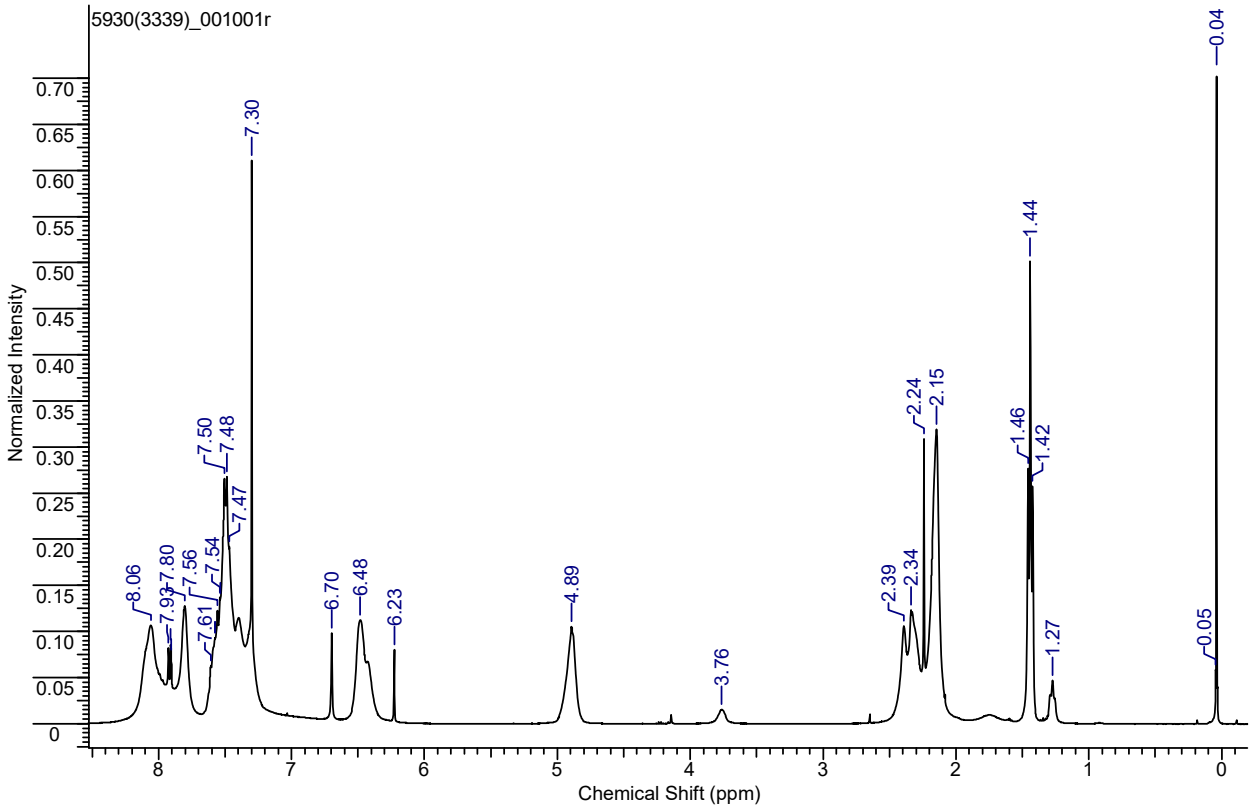

Figure S7. ^{1}H NMR spectra of fraction 2.2

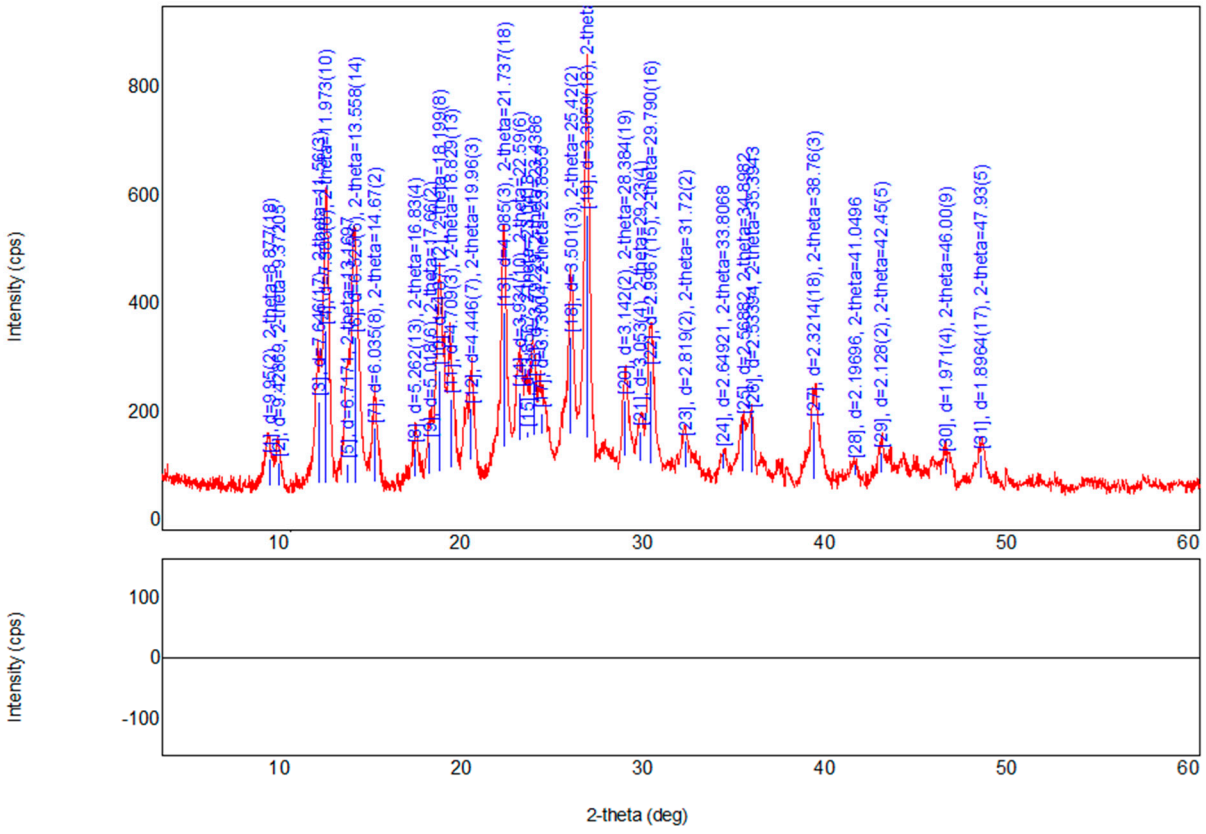

Figure S8. Diffraction pattern of fraction 2.3

Table S1. Data of X-ray phase analysis of fractions 2.3

No.	2-theta(deg)	d (A)	Height(cps)	Int. I(cps deg)	FWHM(deg)	Size
1	8.877(18)	9.95(2)	48(6)	45(3)	0.85(5)	98(6)
2	9.37205	9.42869	41.1751	19.7154	0.448763	185.51
3	11.56(3)	7.646(17)	149(11)	100(10)	0.62(7)	134(15)
4	11.973(10)	7.386(6)	281(15)	91(11)	0.300(15)	278(14)
5	13.1697	6.7171	33.6237	16.1516	0.448763	186.117
6	13.558(14)	6.525(6)	267(15)	203(4)	0.697(14)	120(2)
7	14.67(2)	6.035(8)	98(9)	41(2)	0.39(2)	215(12)
8	16.83(4)	5.262(13)	51(7)	18(2)	0.32(4)	262(34)
9	17.66(2)	5.018(6)	56(7)	27(27)	0.46(5)	184(20)
10	18.199(8)	4.871(2)	184(12)	64(13)	0.327(17)	257(13)
11	18.829(13)	4.709(3)	125(10)	92(5)	0.69(4)	121(6)
12	19.96(3)	4.446(7)	93(9)	45(3)	0.45(3)	188(14)
13	21.737(18)	4.085(3)	246(14)	83(3)	0.316(14)	267(12)
14	22.59(6)	3.934(10)	87(9)	101(5)	1.08(6)	78(5)
15	23.0418	3.8567	8.8975	3.77033	0.389152	217.595
16	23.4386	3.79229	97.868	41.5046	0.389152	217.75
17	23.8355	3.73004	36.2577	15.3888	0.389152	217.908
18	25.42(2)	3.501(3)	177(12)	65(3)	0.34(2)	248(16)
19	26.299(14)	3.3859(18)	412(19)	147(5)	0.336(11)	254(8)
20	28.384(19)	3.142(2)	101(9)	37.6(16)	0.335(18)	255(14)
21	29.23(4)	3.053(4)	54(7)	22(4)	0.37(7)	235(44)
22	29.790(16)	2.9967(15)	172(12)	71(4)	0.38(2)	228(12)
23	31.72(2)	2.819(2)	47(6)	19(2)	0.31(3)	278(31)
24	33.8068	2.64921	27.7558	12.0753	0.389152	222.839
25	34.8982	2.56882	92.6817	40.4522	0.389152	223.496
26	35.3943	2.53394	107.868	47.1514	0.389152	223.802
27	38.76(3)	2.3214(18)	104(9)	67(3)	0.55(3)	161(8)
28	41.0496	2.19696	18.4261	8.206	0.389152	227.663
29	42.45(5)	2.128(2)	35(5)	23(3)	0.40(7)	221(36)
30	46.00(9)	1.971(4)	29(5)	18(2)	0.43(10)	211(48)
31	47.93(5)	1.8964(17)	42(6)	21(2)	0.46(4)	196(15)

Ref.Code	**Score**	**Compound Name**	**Scale Fac.**	**Chem. Formula**
00-021-1932	73	Titanium dichloro bis(1-phenyl-1,3-butanedione)	0.406	C20H18Cl2O4Ti
01-083-1949	40	Silicon Oxide	0.192	SiO2

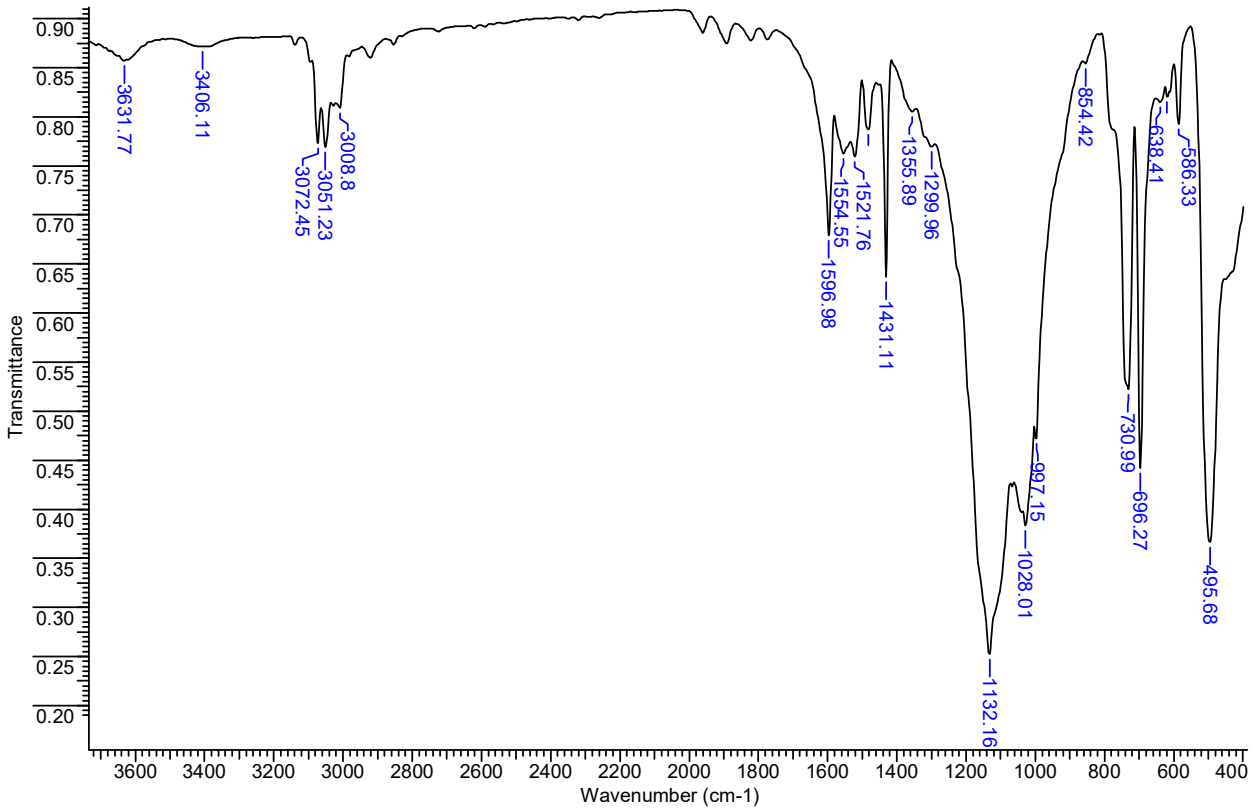

Figure S9. FT-IR spectra of fraction 3.1

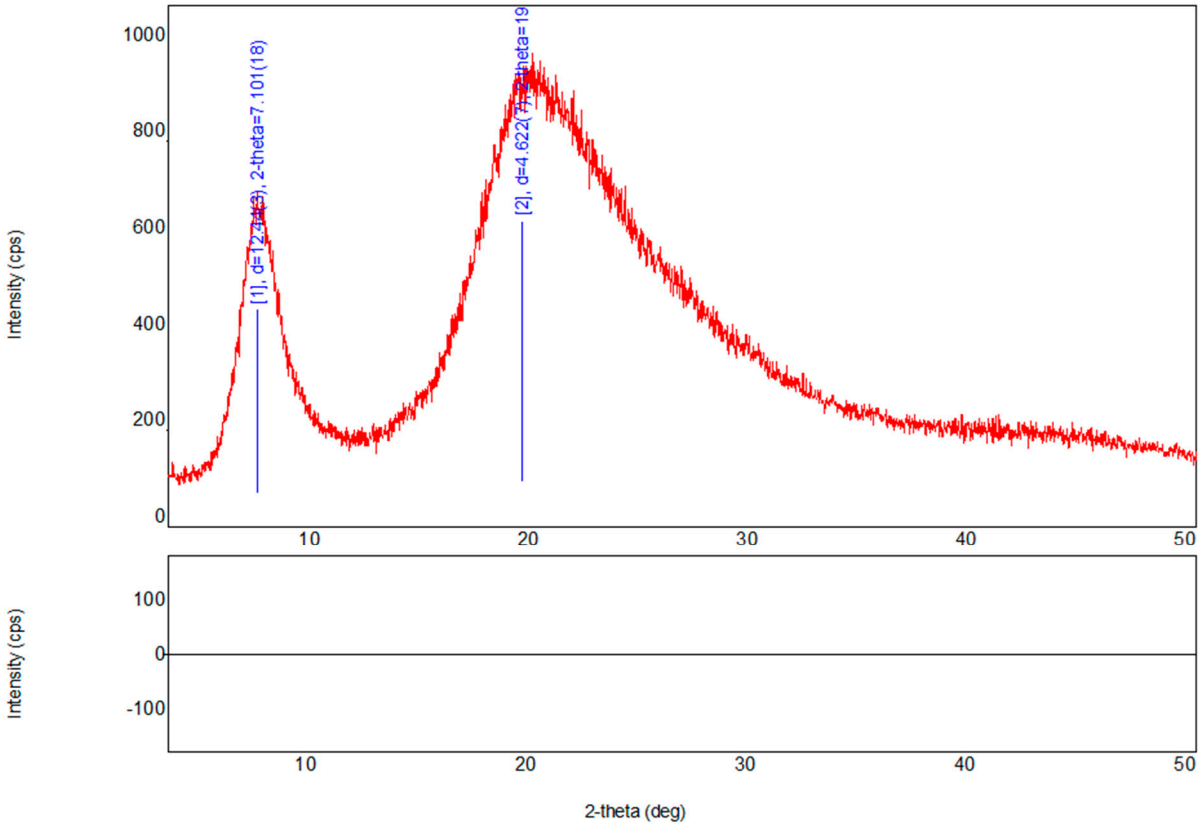

Figure S10. Diffraction pattern of fraction 3.1

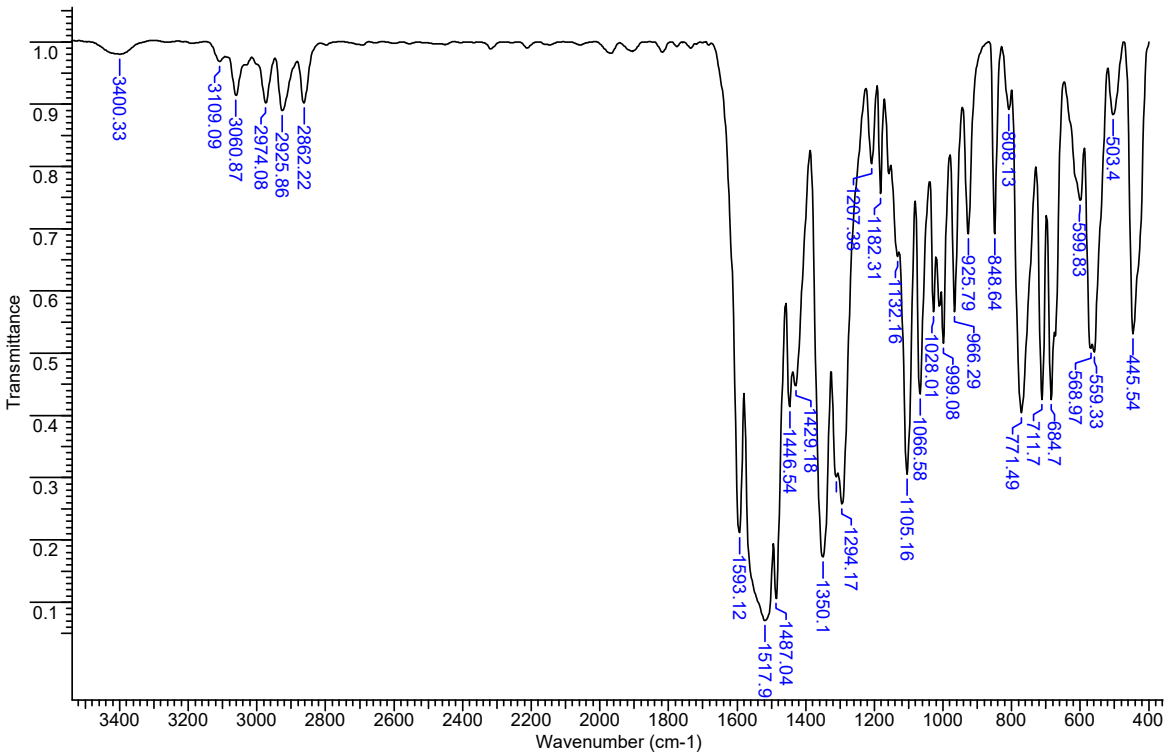

Figure S11. FT-IR spectra of fraction 3.2

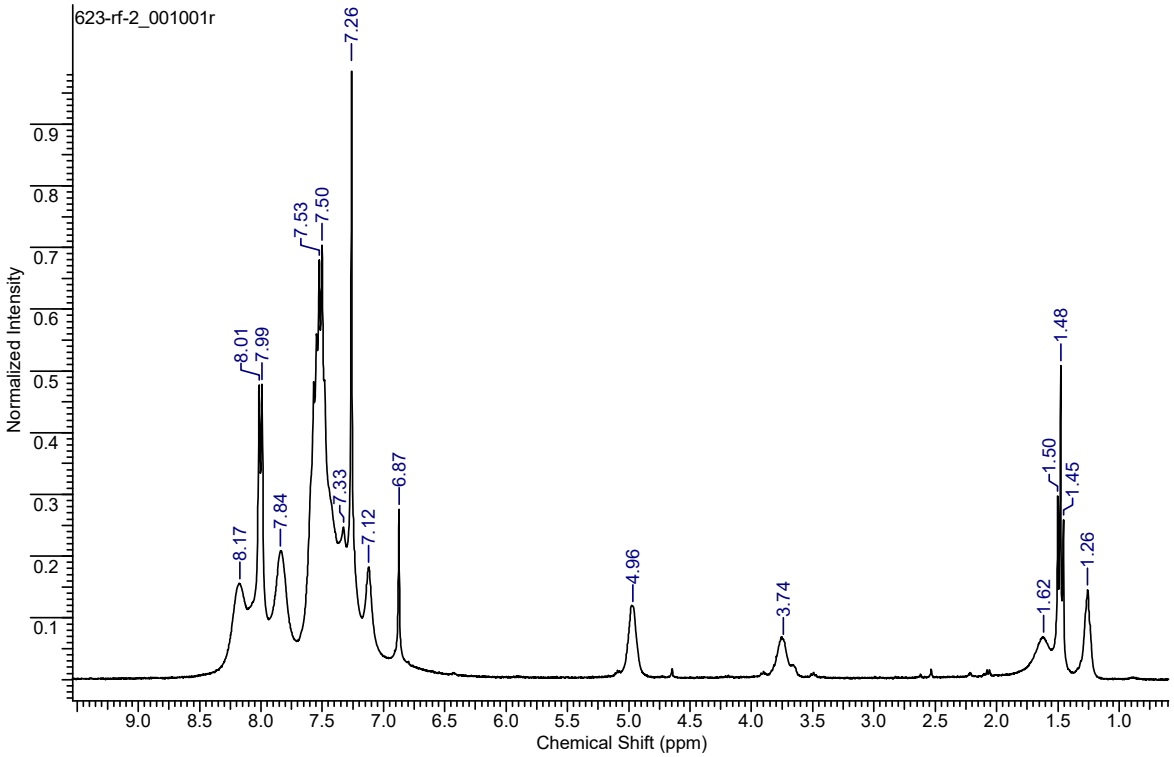

Figure S12. ^{1}H NMR spectra of fraction 3.2

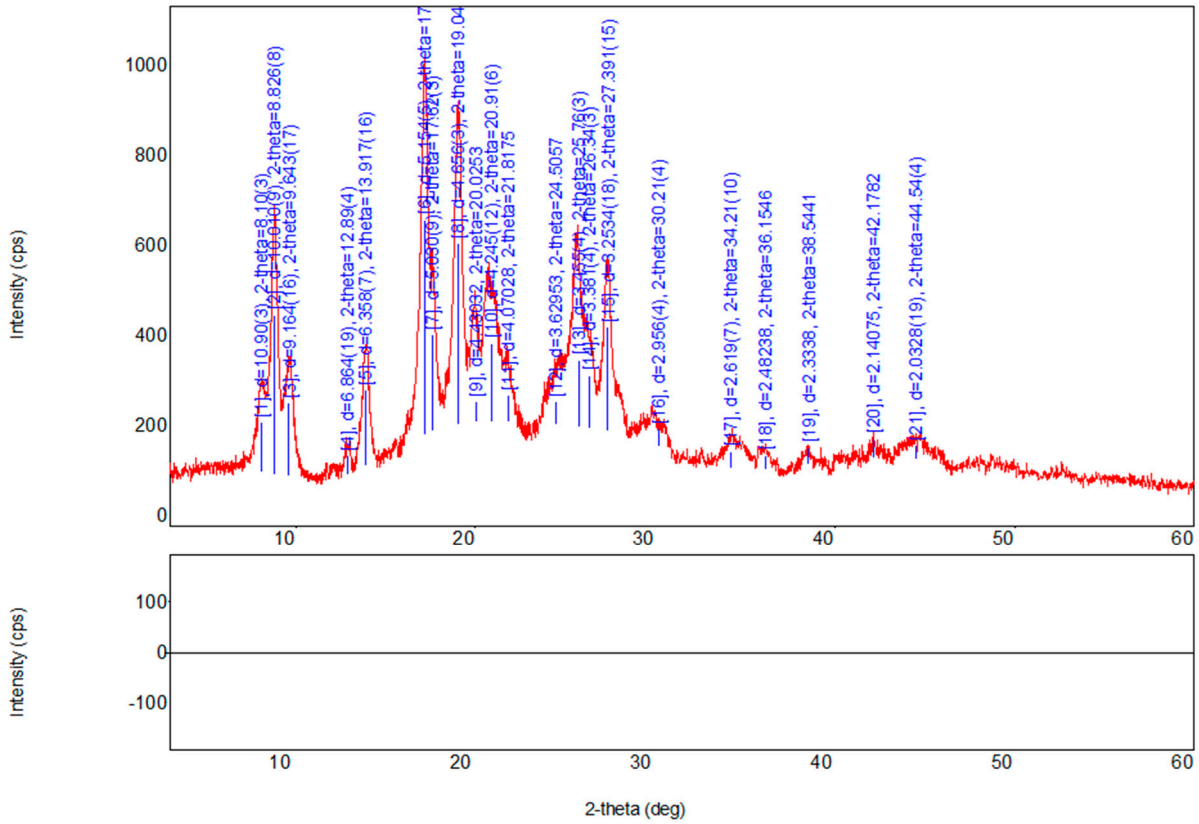

Figure S13. Diffraction pattern of fraction 3.3

Table S2. Data of X-ray phase analysis of fractions 3.3

No.	2-theta(deg)	d (A)	Height(cps)	Int. I(cps deg)	FWHM(deg)	Size
1	8.10(3)	10.90(3)	107(9)	77(7)	0.57(5)	145(12)
2	8.826(8)	10.010(9)	351(17)	181(7)	0.407(13)	204(7)
3	9.643(17)	9.164(16)	161(12)	134(5)	0.65(3)	127(5)
4	12.89(4)	6.864(19)	38(6)	13.2(14)	0.31(4)	272(33)
5	13.917(16)	6.358(7)	165(12)	88(3)	0.468(14)	179(5)
6	17.191(17)	5.154(5)	474(20)	242(42)	0.43(3)	197(14)
7	17.62(3)	5.030(9)	211(13)	128(40)	0.51(15)	165(49)
8	19.047(14)	4.656(3)	399(18)	200(6)	0.443(12)	190(5)
9	20.0253	4.43032	42.54	28.6293	0.57384	146.827
10	20.91(6)	4.245(12)	172(12)	465(11)	2.27(8)	37.2(13)
11	21.8175	4.07028	55.5505	37.4265	0.57384	147.251
12	24.5057	3.62953	47.3043	31.9294	0.57384	147.961
13	25.76(3)	3.455(4)	145(11)	136(41)	0.75(4)	114(6)
14	26.34(3)	3.381(4)	114(10)	257(8)	1.79(8)	48(2)
15	27.391(15)	3.2534(18)	229(14)	141(5)	0.427(19)	200(9)
16	30.21(4)	2.956(4)	36(5)	40(4)	0.90(11)	95(11)
17	34.21(10)	2.619(7)	35(5)	70(5)	1.88(10)	46(2)
18	36.1546	2.48238	27.907	25.3372	0.746503	116.918
19	38.5441	2.3338	34.3265	31.212	0.746503	117.745
20	42.1782	2.14075	40.4357	36.8586	0.746503	119.126
21	44.54(4)	2.0328(19)	28(5)	51(5)	1.48(13)	61(5)

Ref.Code	Score	Compound Name	Scale Fac.	Chem. Formula
00-038-0197	64	Silicon Oxide	0.277	SiO2
00-021-1931	49	Titanium dichloro (1,3-diphenyl-1,3-propandione)	0.271	C30H22Cl2O4Ti