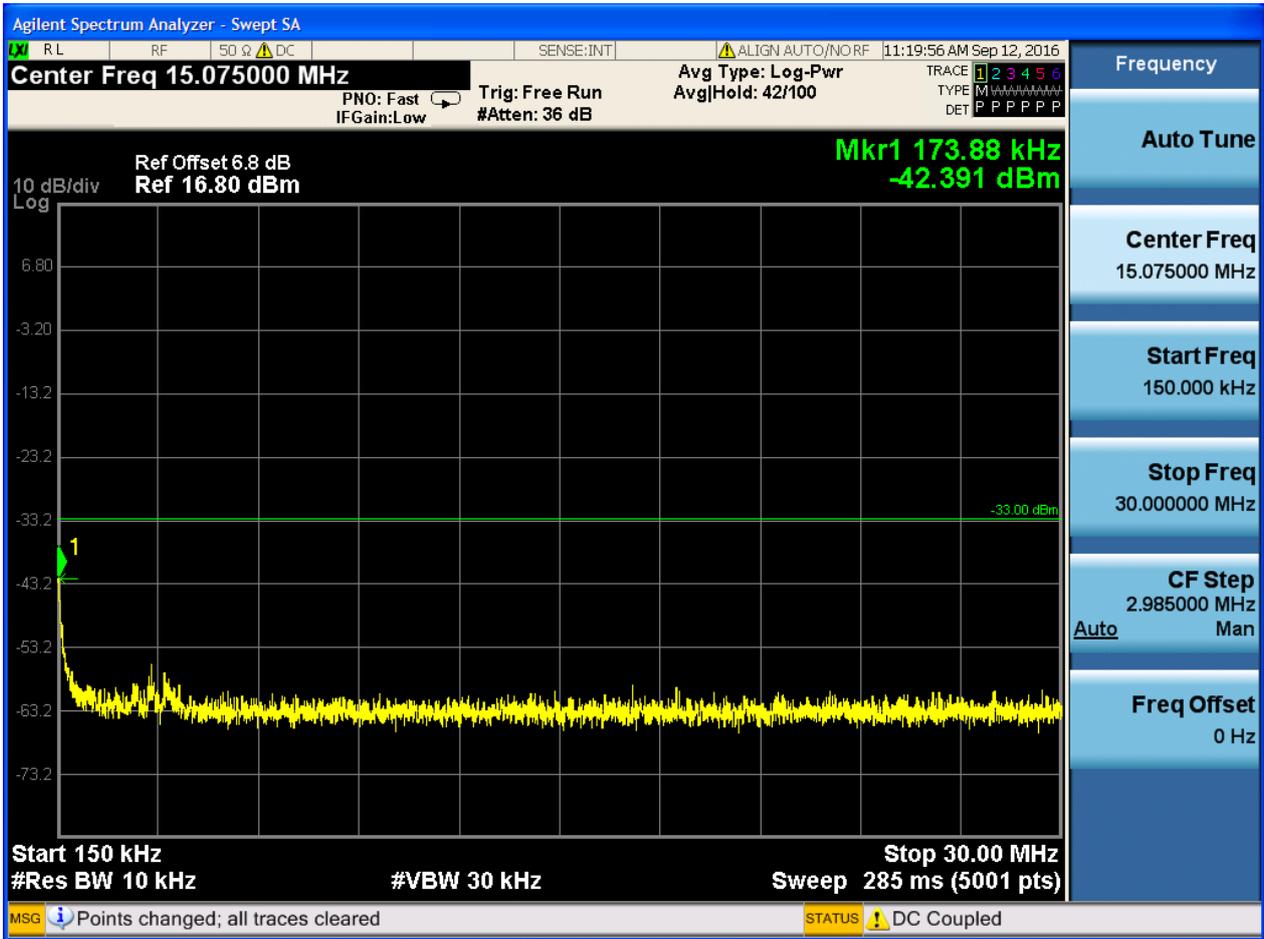
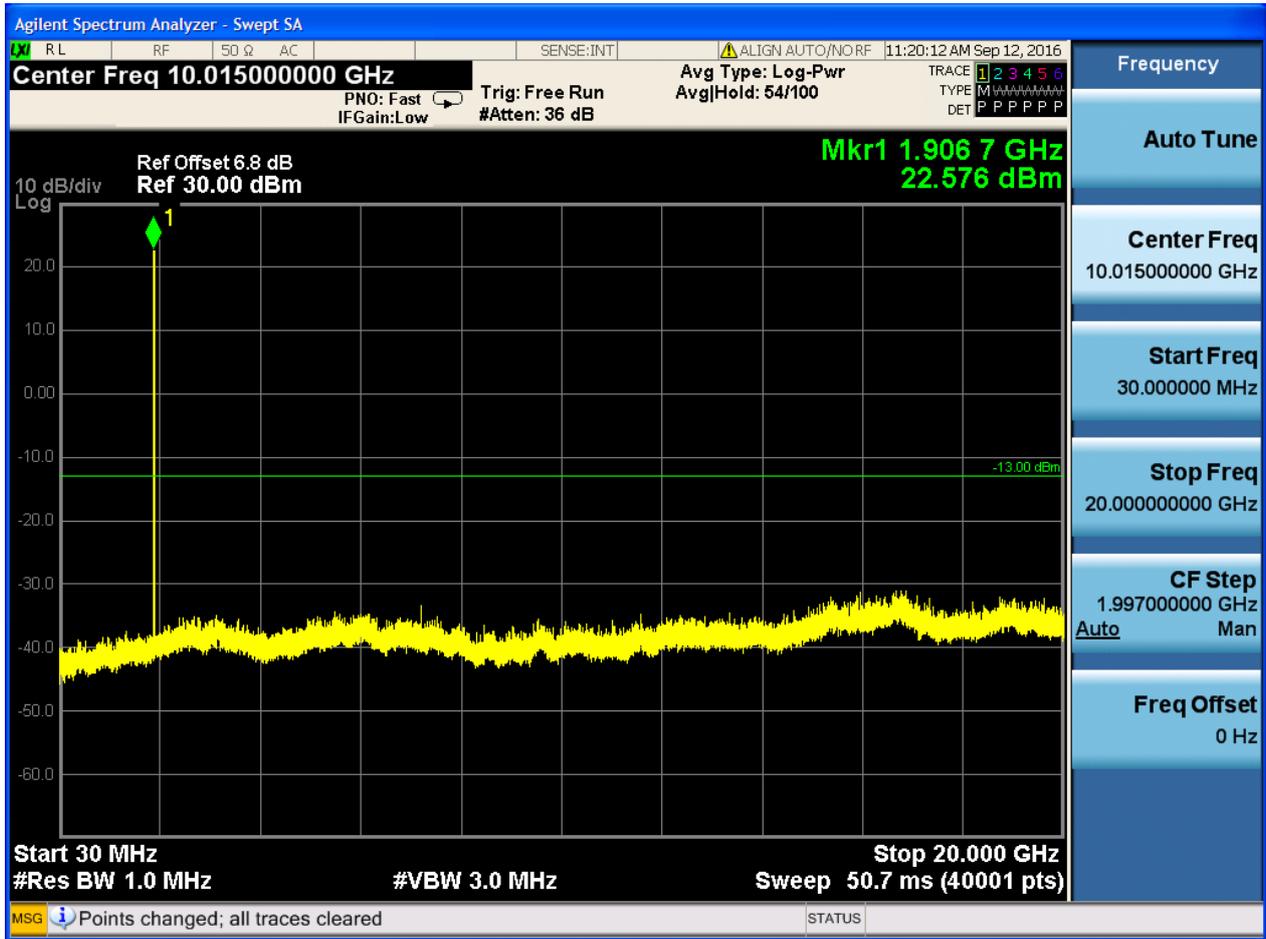




6.2.3.1.3 Test Channel = HCH







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

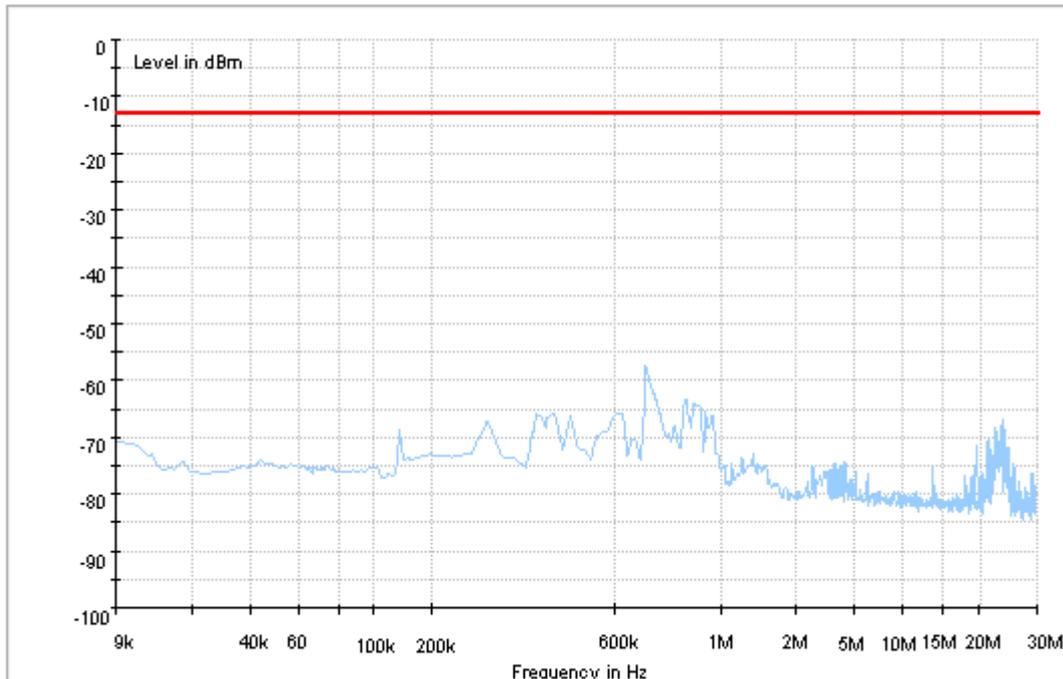
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

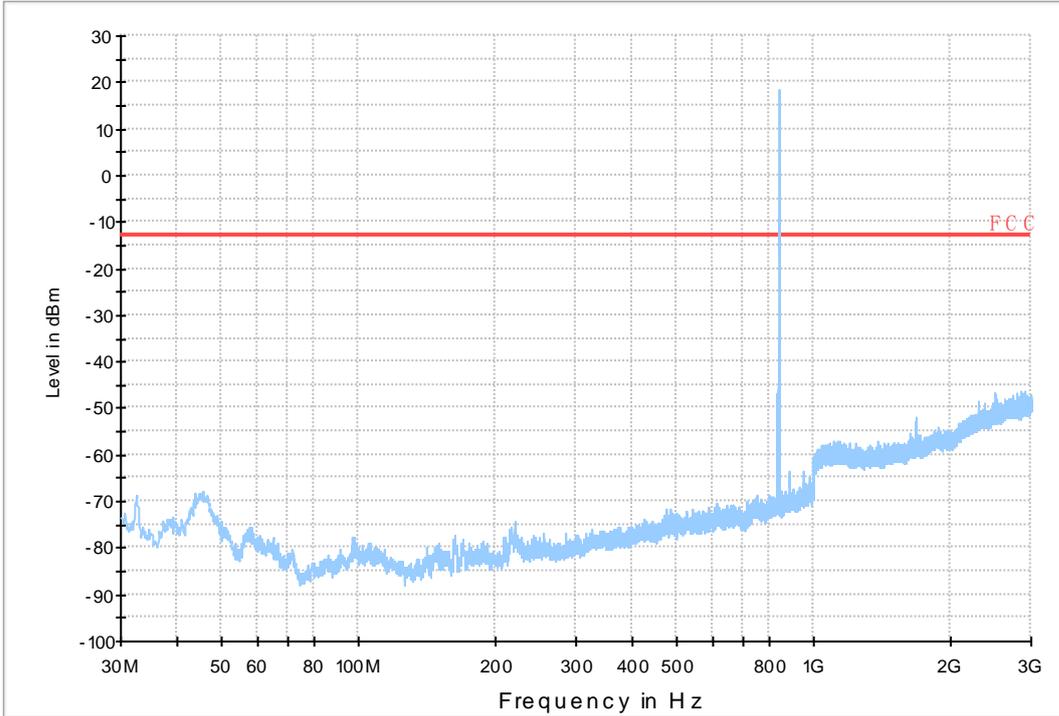
7.1 For GSM

7.1.1 Test Band = GSM850

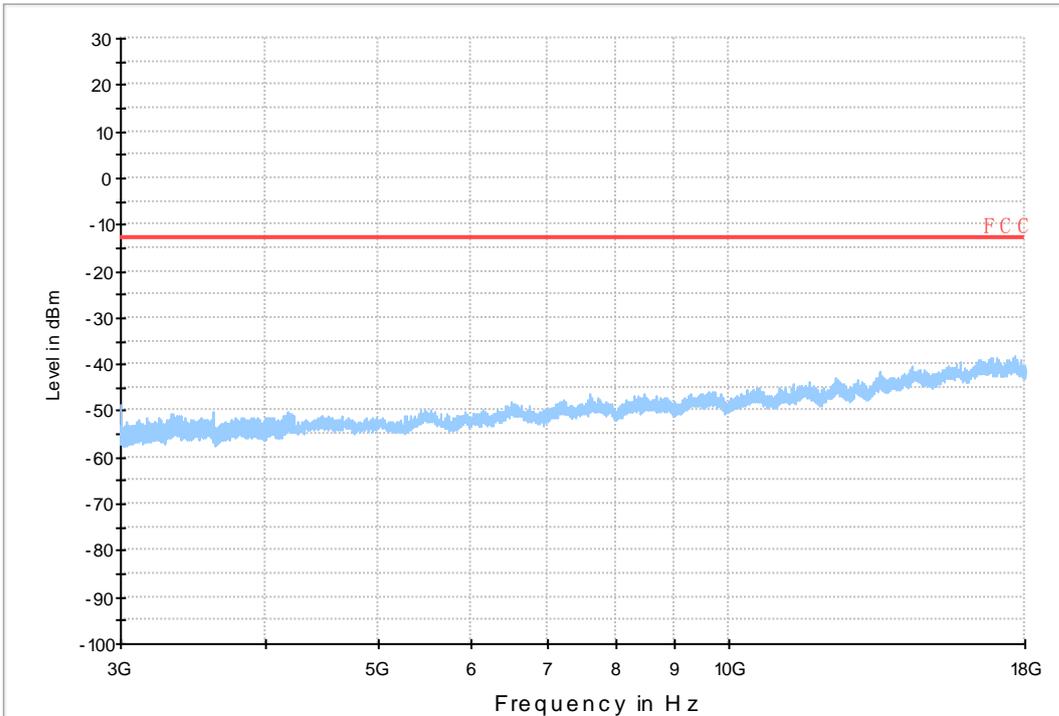
7.1.1.1 Test Mode = GSM/TM1



Copy of FCC PART22 GSM850_L

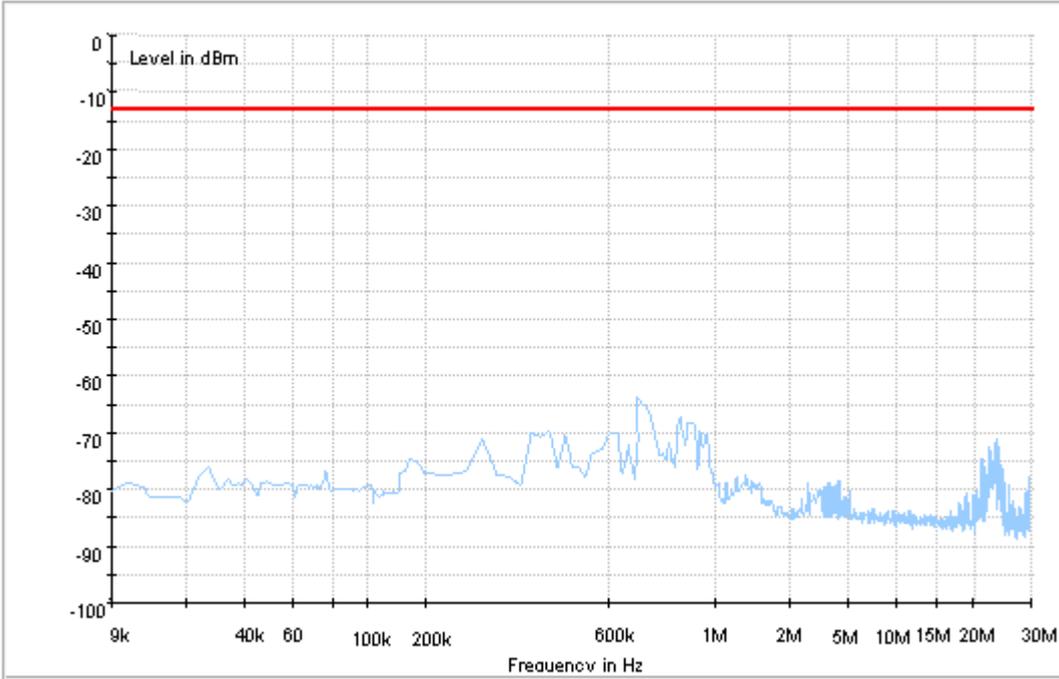


Copy of FCC PART22 GSM850_H

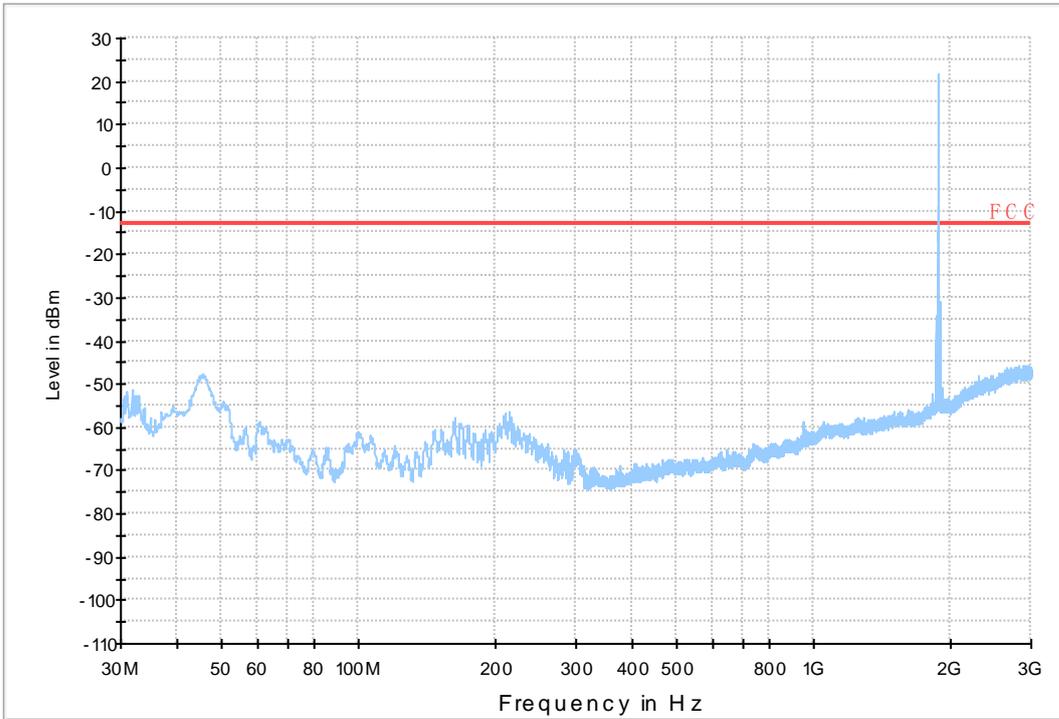


7.1.2 Test Band = GSM1900

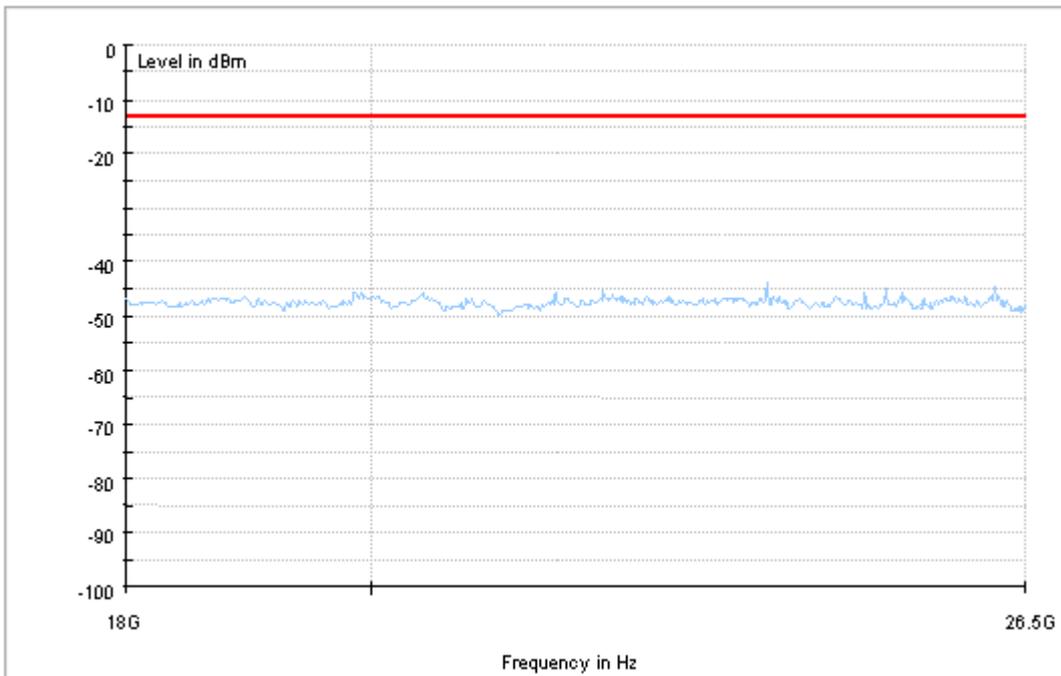
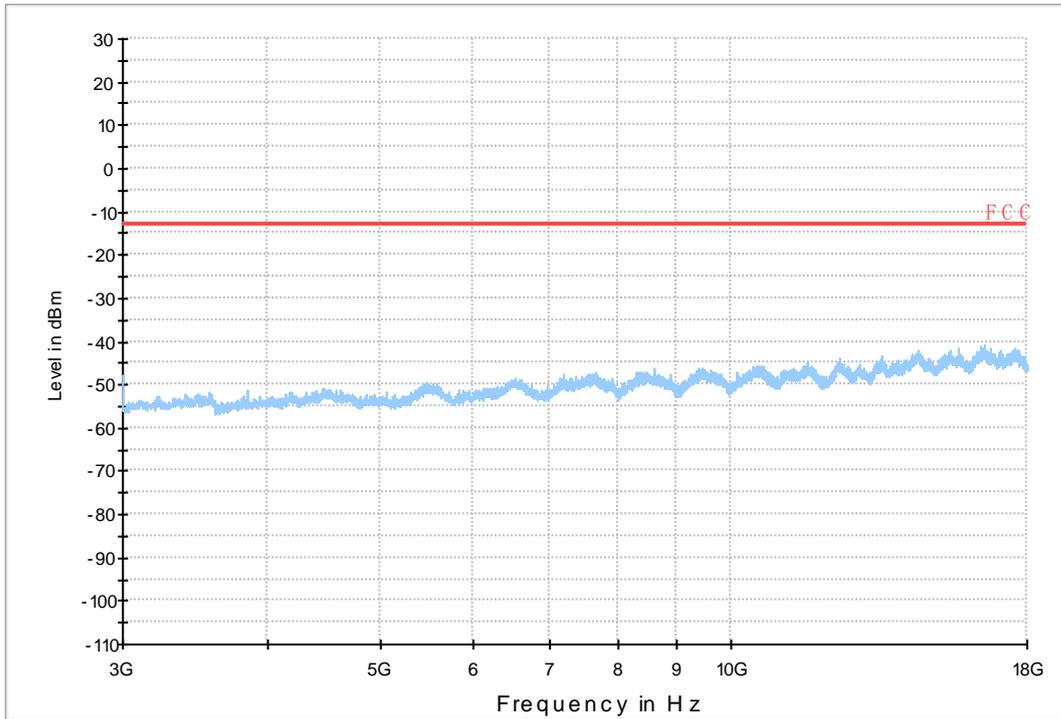
7.1.2.1 Test Mode = GSM/TM1



Copy of FCC PART 24 GSM1900_L



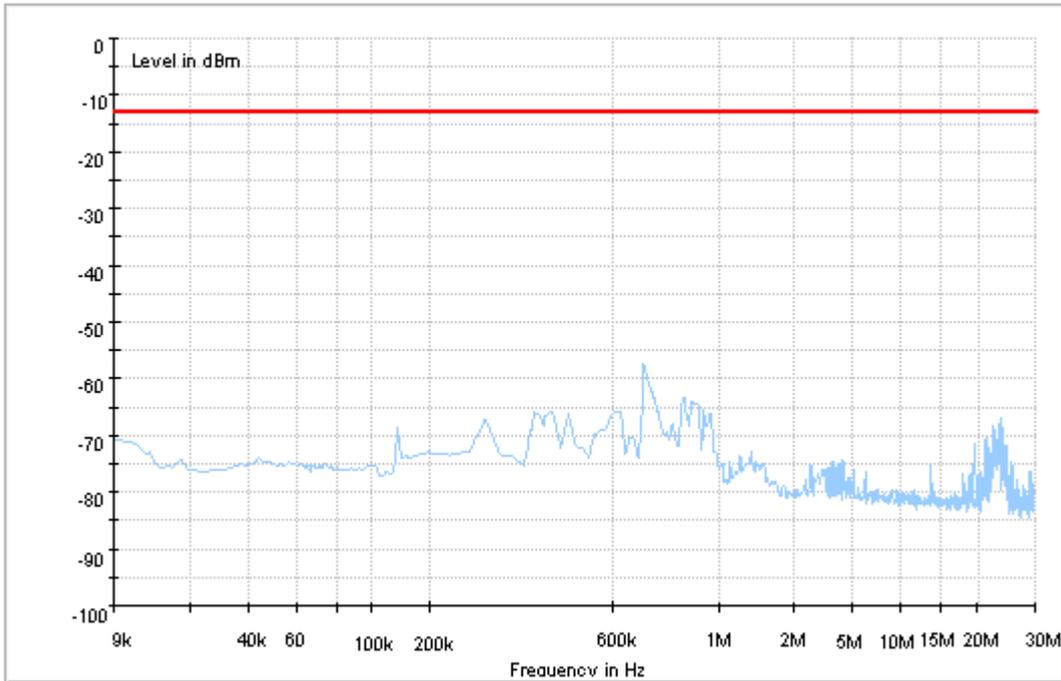
Copy of FCC PART 24 GSM1900_H



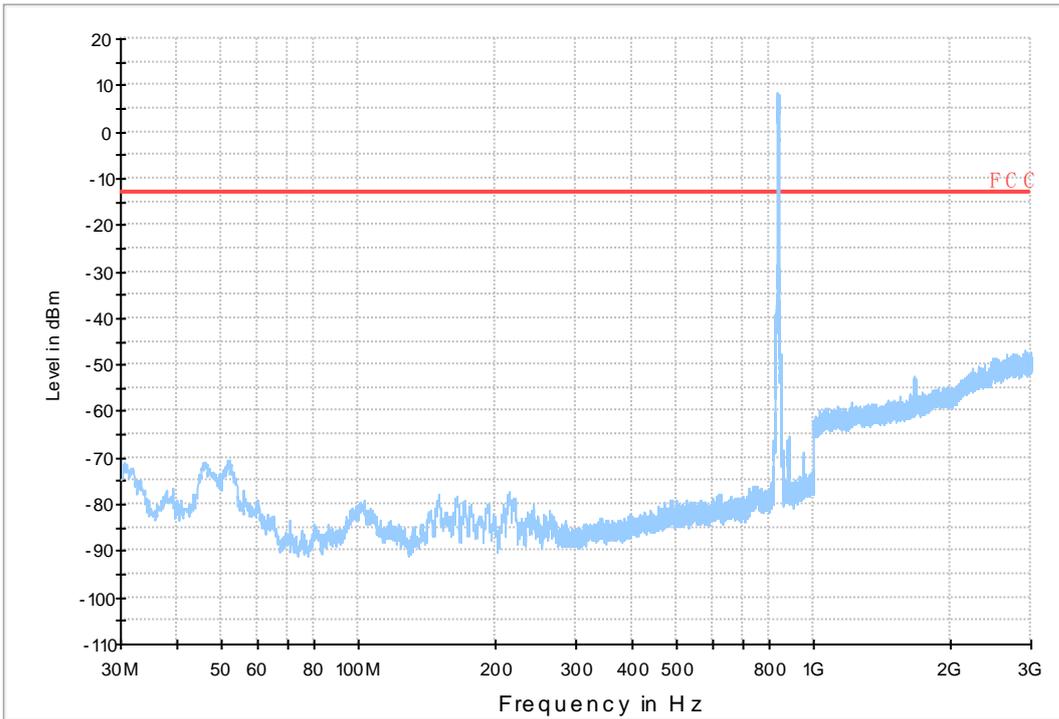
7.2 For UMTS

7.2.1 Test Band = WCDMA850

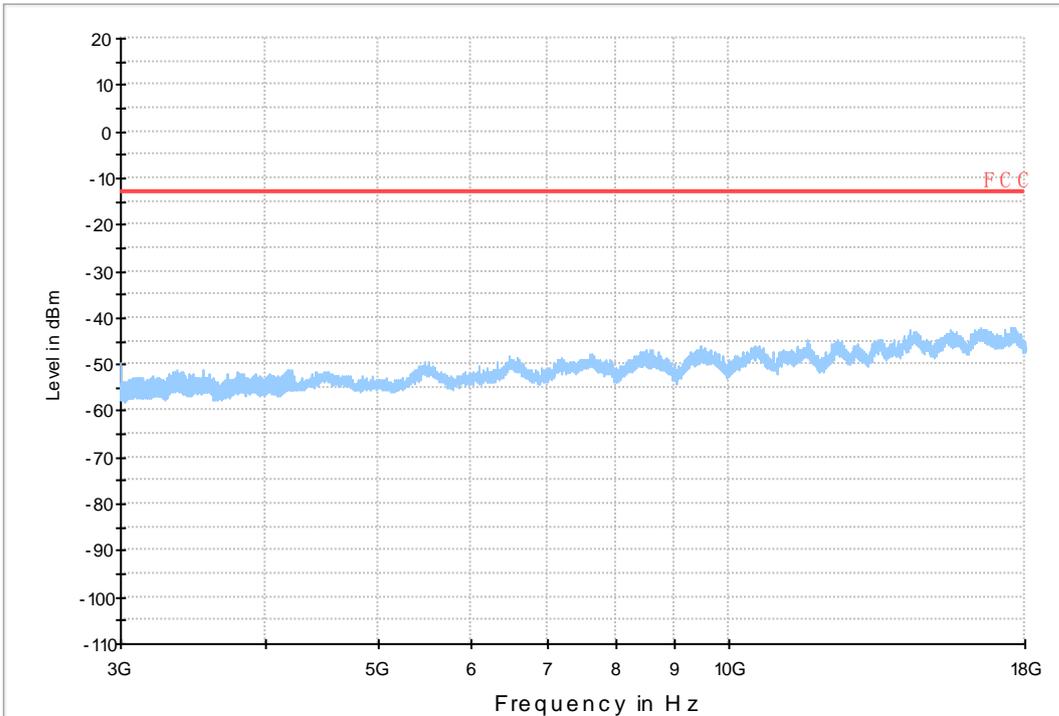
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 W CDMA850_L

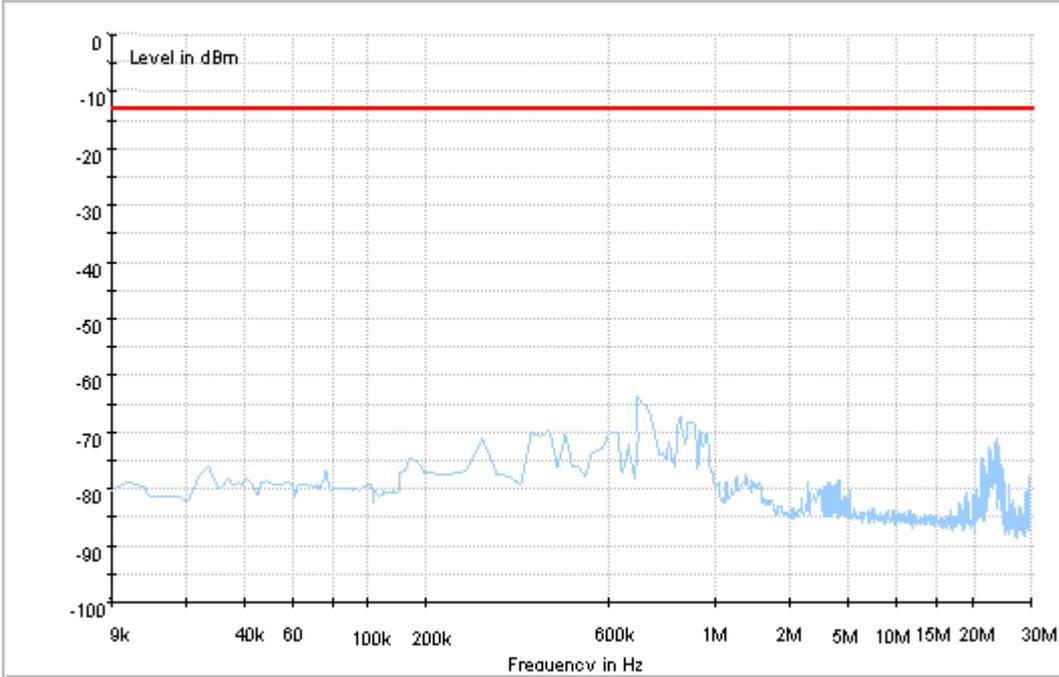


Copy of FCC PART22 W CDMA850_H

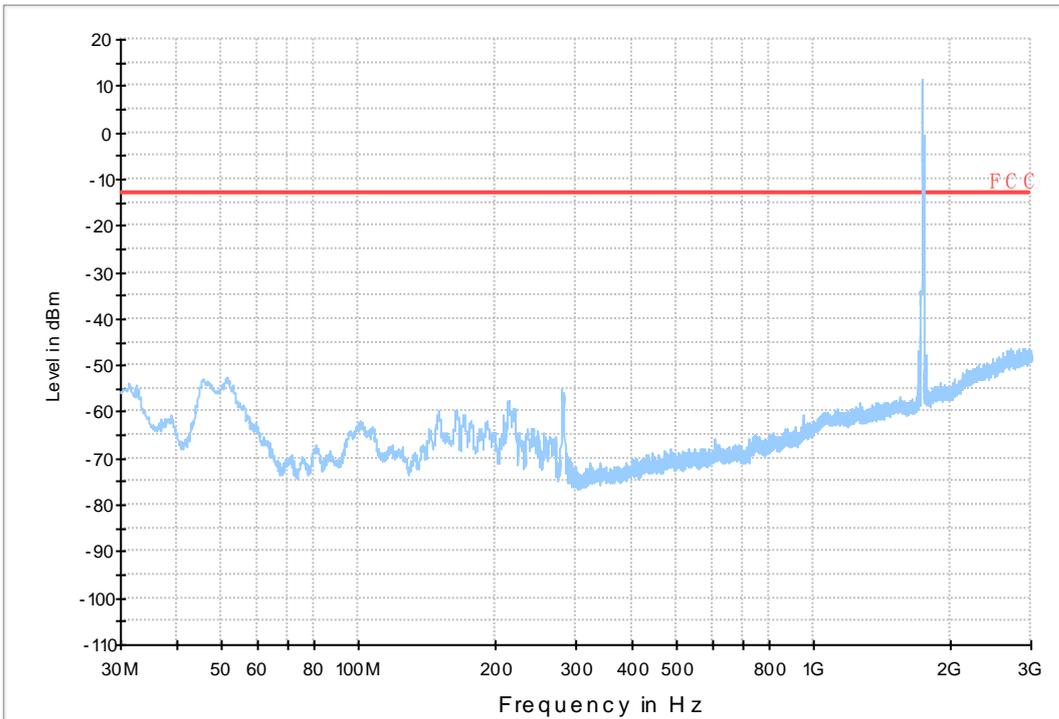


7.2.2 Test Band = WCDMA1700

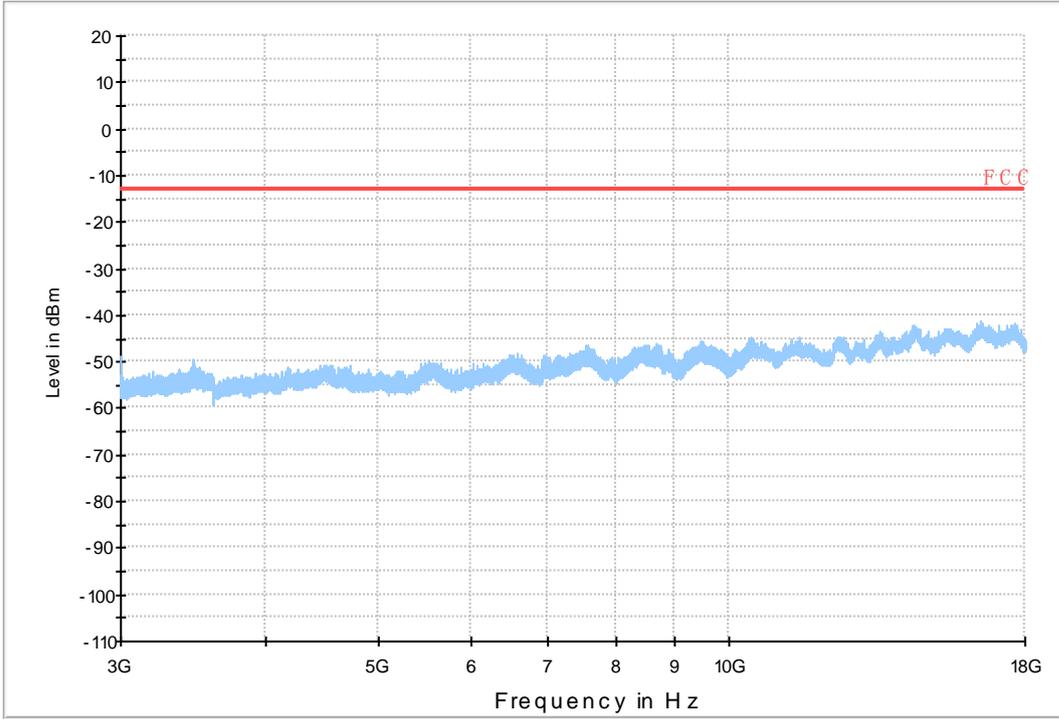
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART 27 W CDMA1700_L

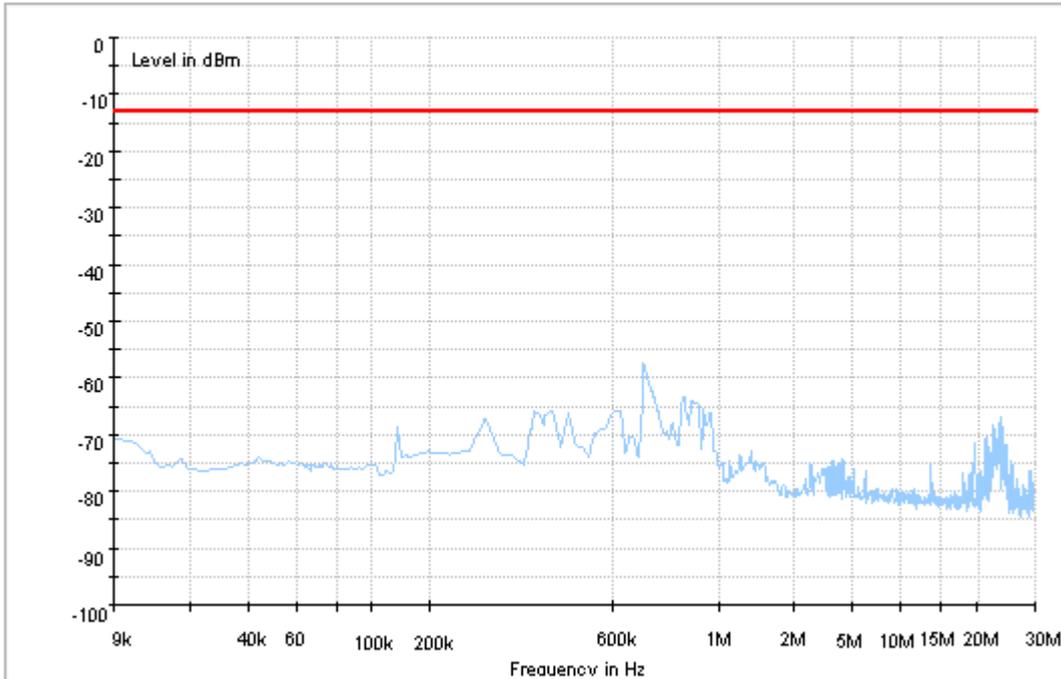


Copy of FCC PART 27 W CDMA1700_H

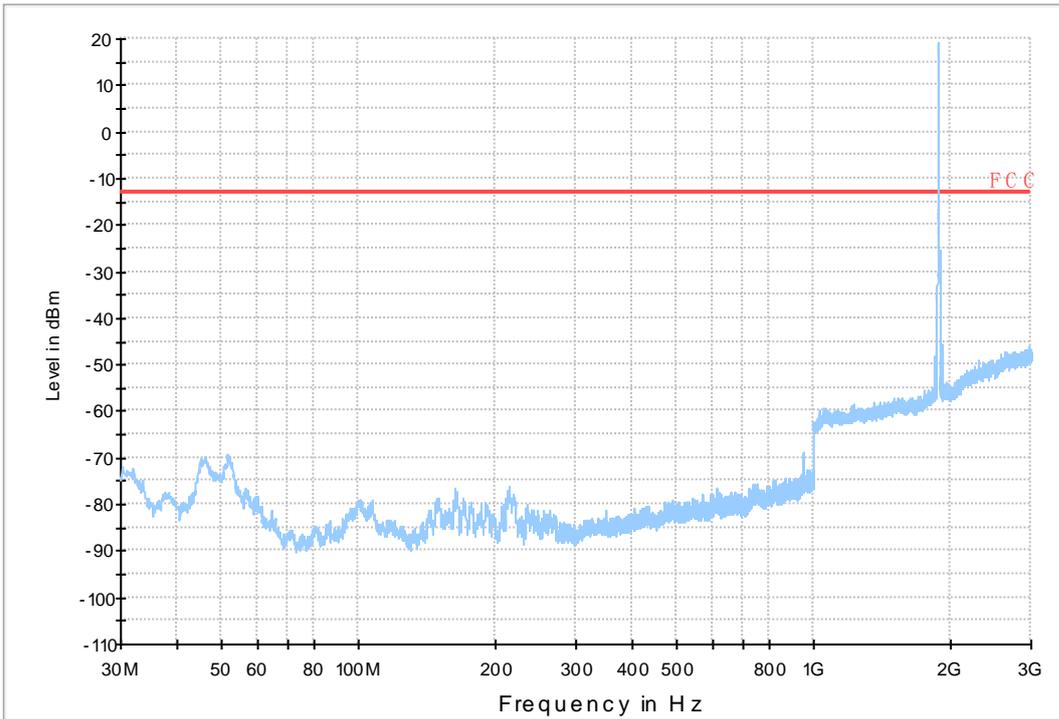


7.2.3 Test Band = WCDMA1900

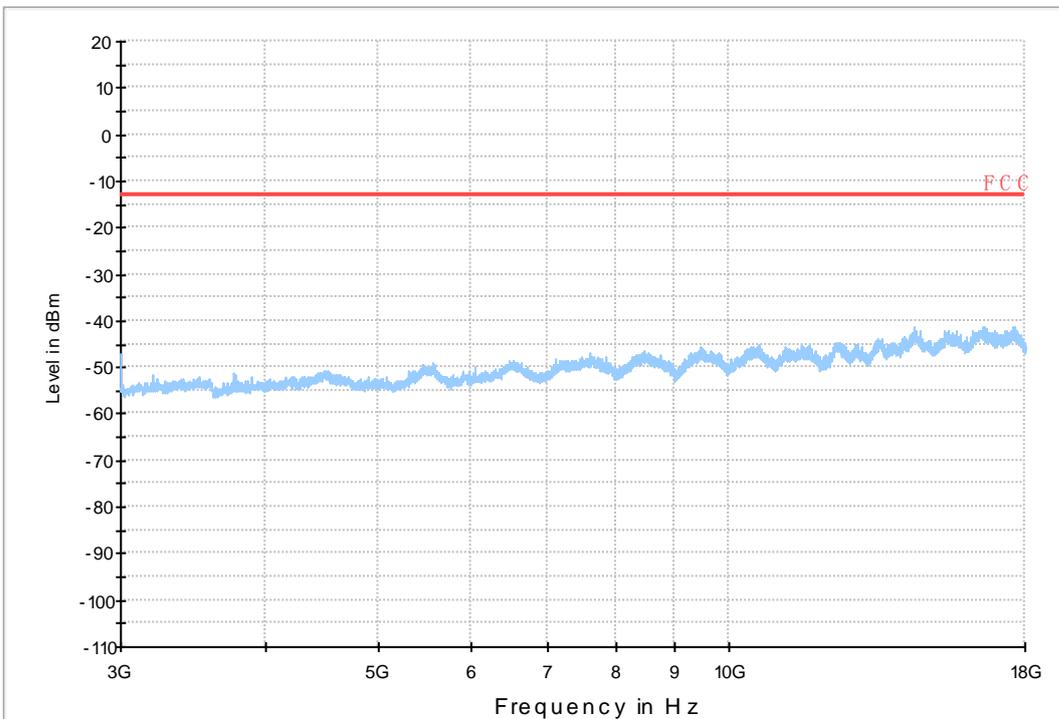
7.2.3.1 Test Mode = UMTS/TM1

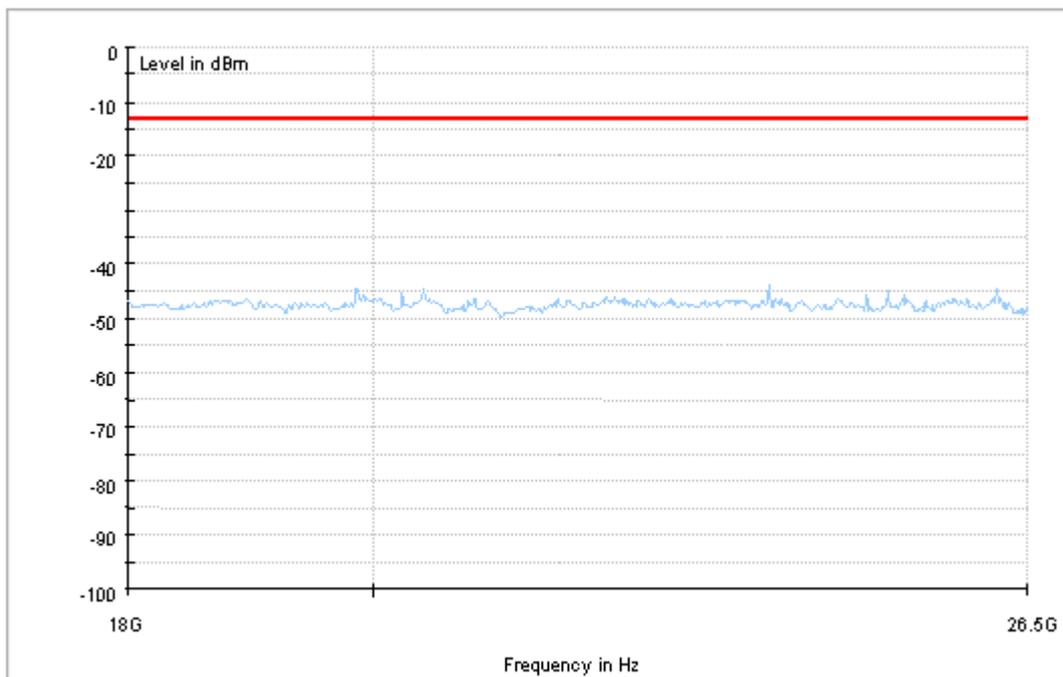


Copy of FCC PART24 W CDMA1900_L



Copy of FCC PART24 W CDMA1900_H





8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-13.69	-0.01661	PASS
				VN	-12.85	-0.01559	PASS
				VH	-14.72	-0.01786	PASS
		MCH	TN	VL	-14.59	-0.01744	PASS
				VN	-15.3	-0.01829	PASS
				VH	-11.11	-0.01328	PASS
		HCH	TN	VL	-14.14	-0.01666	PASS
				VN	-14.98	-0.01765	PASS
				VH	-12.66	-0.01492	PASS
	GSM/TM2	LCH	TN	VL	-27.48	-0.03334	PASS
				VN	-26.25	-0.03185	PASS
				VH	-27.57	-0.03345	PASS
		MCH	TN	VL	-17.76	-0.02123	PASS
				VN	-19.44	-0.02324	PASS
				VH	-22.18	-0.02651	PASS
		HCH	TN	VL	-21.11	-0.02487	PASS
				VN	-15.79	-0.0186	PASS
				VH	-22.12	-0.02606	PASS
GSM1900	GSM/TM1	LCH	TN	VL	51.79	0.02799	PASS
				VN	18.21	0.00984	PASS
				VH	7.36	0.00398	PASS
		MCH	TN	VL	7.17	0.00381	PASS
				VN	26.8	0.01426	PASS
				VH	14.21	0.00756	PASS
	HCH	TN	VL	1.74	0.00091	PASS	
			VN	7.68	0.00402	PASS	
			VH	18.79	0.00984	PASS	
	GSM/TM2	LCH	TN	VL	10.14	0.00548	PASS
				VN	9.59	0.00518	PASS
				VH	6.72	0.00363	PASS



Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	9.3	0.00495	PASS
				VN	16.63	0.00885	PASS
				VH	13.27	0.00706	PASS
		HCH	TN	VL	12.82	0.00671	PASS
				VN	2.16	0.00113	PASS
				VH	8.62	0.00451	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
GSM850	GSM/TM1	LCH	VN	-30	-9.43	-0.01144	PASS	
				-20	-12.33	-0.01496	PASS	
				-10	-11.75	-0.01426	PASS	
				0	-12.33	-0.01496	PASS	
				10	-10.07	-0.01222	PASS	
				20	-11.75	-0.01426	PASS	
				30	-11.3	-0.01371	PASS	
				40	-18.79	-0.0228	PASS	
				50	-10.91	-0.01324	PASS	
		MCH	VN	-30	-14.14	-0.0169	PASS	
				-20	-15.56	-0.0186	PASS	
				-10	-11.17	-0.01335	PASS	
				0	-14.79	-0.01768	PASS	
				10	-14.59	-0.01744	PASS	
				20	-8.01	-0.00957	PASS	
				30	-16.53	-0.01976	PASS	
				40	-12.98	-0.01552	PASS	
				50	-12.85	-0.01536	PASS	
		HCH	VN	-30	-8.01	-0.00944	PASS	
				-20	-16.08	-0.01894	PASS	
				-10	-14.14	-0.01666	PASS	
				0	-19.89	-0.02343	PASS	
				10	-12.4	-0.01461	PASS	
				20	-10.98	-0.01294	PASS	
				30	-20.47	-0.02412	PASS	
				40	-9.3	-0.01096	PASS	
				50	-16.85	-0.01985	PASS	
		GSM/TM2	LCH	VN	-30	-17.85	-0.02166	PASS
					-20	-14.56	-0.01767	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				-10	-21.24	-0.02577	PASS		
				0	-23.15	-0.02809	PASS		
				10	-16.53	-0.02006	PASS		
				20	-16.18	-0.01963	PASS		
				30	-24.54	-0.02977	PASS		
				40	-16.21	-0.01967	PASS		
				50	-16.53	-0.02006	PASS		
		MCH	VN			-30	-13.01	-0.01555	PASS
						-20	-25.7	-0.03072	PASS
						-10	-21.7	-0.02594	PASS
						0	-12.53	-0.01498	PASS
						10	-21.5	-0.0257	PASS
						20	-20.11	-0.02404	PASS
						30	-13.14	-0.01571	PASS
						40	-19.89	-0.02377	PASS
						50	-22.83	-0.02729	PASS
		HCH	VN			-30	-14.56	-0.01715	PASS
						-20	-24.54	-0.02891	PASS
						-10	-16.21	-0.0191	PASS
						0	-29.41	-0.03465	PASS
						10	-21.41	-0.02522	PASS
						20	-21.86	-0.02575	PASS
						30	-29.74	-0.03504	PASS
						40	-17.63	-0.02077	PASS
						50	-20.28	-0.02389	PASS
		GSM1900	GSM/TM1	LCH	VN	-30	6.33	0.00342	PASS
						-20	17.76	0.0096	PASS
-10	21.37					0.01155	PASS		
0	6.39					0.00345	PASS		
10	9.3					0.00503	PASS		
20	21.18					0.01145	PASS		
30	12.79					0.00691	PASS		
40	4.07					0.0022	PASS		
50	4.2					0.00227	PASS		
MCH	VN					-30	7.23	0.00385	PASS
						-20	20.15	0.01072	PASS
						-10	18.66	0.00993	PASS
						0	20.34	0.01082	PASS
						10	14.53	0.00773	PASS
						20	8.01	0.00426	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
				30	-1.16	-0.00062	PASS	
				40	19.57	0.01041	PASS	
				50	16.79	0.00893	PASS	
		HCH	VN	-30	16.92	0.00886	PASS	
				-20	32.61	0.01708	PASS	
				-10	9.3	0.00487	PASS	
				0	-1.87	-0.00098	PASS	
				10	16.47	0.00862	PASS	
				20	8.98	0.0047	PASS	
				30	17.63	0.00923	PASS	
				40	16.08	0.00842	PASS	
				50	-10.53	-0.00551	PASS	
		GSM/TM2	LCH	VN	-30	13.04	0.00705	PASS
					-20	7.49	0.00405	PASS
	-10				4.39	0.00237	PASS	
	0				12.11	0.00655	PASS	
	10				6.62	0.00358	PASS	
	20				-0.26	-0.00014	PASS	
	30				11.27	0.00609	PASS	
	40				-1	-0.00054	PASS	
	50				20.47	0.01106	PASS	
	MCH		VN	-30	3.68	0.00196	PASS	
				-20	10.88	0.00579	PASS	
				-10	1.84	0.00098	PASS	
				0	30.48	0.01621	PASS	
				10	8.36	0.00445	PASS	
				20	-0.29	-0.00015	PASS	
				30	29.09	0.01547	PASS	
				40	19.6	0.01043	PASS	
				50	5.55	0.00295	PASS	
	HCH	VN	-30	0.42	0.00022	PASS		
			-20	6.17	0.00323	PASS		
-10			8.56	0.00448	PASS			
0			11.3	0.00592	PASS			
10			4.71	0.00247	PASS			
20			22.24	0.01165	PASS			
30			6.52	0.00341	PASS			
40			7.49	0.00392	PASS			
50	4.2	0.0022	PASS					



8.2 For UMTS

8.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	2.64	0.00319	PASS
				VN	2.24	0.00271	PASS
				VH	6.82	0.00825	PASS
		MCH	TN	VL	1.97	0.00236	PASS
				VN	1.82	0.00218	PASS
				VH	3.6	0.0043	PASS
		HCH	TN	VL	5.2	0.00614	PASS
				VN	-2.08	-0.00246	PASS
				VH	1.36	0.00161	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	2.38	0.00139	PASS
				VN	-0.06	-0.00004	PASS
				VH	4.27	0.00249	PASS
		MCH	TN	VL	1.83	0.00106	PASS
				VN	3.19	0.00184	PASS
				VH	0.7	0.0004	PASS
		HCH	TN	VL	-3.66	-0.00209	PASS
				VN	0.66	0.00038	PASS
				VH	0.73	0.00042	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	4.67	0.00252	PASS
				VN	3.43	0.00185	PASS
				VH	-6.45	-0.00348	PASS
		MCH	TN	VL	-1.85	-0.00098	PASS
				VN	4.53	0.00241	PASS
				VH	-3.28	-0.00174	PASS
		HCH	TN	VL	4.04	0.00212	PASS
				VN	0.37	0.00019	PASS
				VH	-1.89	-0.00099	PASS

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	2.37	0.00287	PASS
				-20	-4.04	-0.00489	PASS
				-10	-3.45	-0.00417	PASS
				0	-4.55	-0.00551	PASS
				10	-3.4	-0.00411	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict						
				20	2.79	0.00338	PASS						
				30	-5.95	-0.0072	PASS						
				40	3.39	0.0041	PASS						
				50	2.58	0.00312	PASS						
		MCH	VN			-30	5.91	0.00707	PASS				
						-20	0.89	0.00106	PASS				
						-10	2.53	0.00302	PASS				
						0	-0.75	-0.0009	PASS				
						10	0.43	0.00051	PASS				
						20	-3.27	-0.00391	PASS				
						30	-4.32	-0.00516	PASS				
						40	-3.2	-0.00383	PASS				
						50	3.2	0.00383	PASS				
						HCH	VN			-30	0.82	0.00097	PASS
										-20	-1.51	-0.00178	PASS
										-10	1.24	0.00146	PASS
		0	4.7	0.00555	PASS								
		10	1.66	0.00196	PASS								
		20	-1.68	-0.00198	PASS								
		30	4.39	0.00519	PASS								
		40	2.79	0.0033	PASS								
		50	-2.76	-0.00326	PASS								
		WCDMA1700	UMTS/TM1	LCH	VN								
										-30	0.05	0.00003	PASS
										-20	3.01	0.00176	PASS
										-10	3.94	0.0023	PASS
										0	-2.08	-0.00121	PASS
										10	-2.7	-0.00158	PASS
20	-1.02									-0.0006	PASS		
30	-2.53									-0.00148	PASS		
40	-1.59									-0.00093	PASS		
50	4.09									0.00239	PASS		
MCH	VN												
										-30	-0.73	-0.00042	PASS
										-20	-1.11	-0.00064	PASS
										-10	0.41	0.00024	PASS
										0	3.19	0.00184	PASS
										10	2.75	0.00159	PASS
										20	2.55	0.00147	PASS
										30	2.27	0.00131	PASS
										40	-5.63	-0.00325	PASS
										50	2.04	0.00118	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	3.77	0.00215	PASS
				-20	-2.27	-0.0013	PASS
				-10	0.26	0.00015	PASS
				0	4.39	0.0025	PASS
				10	-0.9	-0.00051	PASS
				20	0.03	0.00002	PASS
				30	-3.71	-0.00212	PASS
				40	3.71	0.00212	PASS
				50	2.91	0.00166	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	3.42	0.00185	PASS
				-20	4.47	0.00241	PASS
				-10	1.74	0.00094	PASS
				0	1.4	0.00076	PASS
				10	-0.99	-0.00053	PASS
				20	-0.72	-0.00039	PASS
				30	6.26	0.00338	PASS
				40	-0.96	-0.00052	PASS
				50	4.3	0.00232	PASS
		MCH	VN	-30	2.93	0.00156	PASS
				-20	8.3	0.00441	PASS
				-10	-2.79	-0.00148	PASS
				0	-2.17	-0.00115	PASS
				10	2.27	0.00121	PASS
				20	-9.78	-0.0052	PASS
				30	4.46	0.00237	PASS
				40	5.94	0.00316	PASS
				50	-4.75	-0.00253	PASS
		HCH	VN	-30	-1.53	-0.0008	PASS
				-20	7.46	0.00391	PASS
				-10	3.14	0.00165	PASS
				0	-1.6	-0.00084	PASS
				10	5.83	0.00306	PASS
				20	-0.17	-0.00009	PASS
				30	-0.72	-0.00038	PASS
				40	-6.18	-0.00324	PASS
				50	3.07	0.00161	PASS

END