

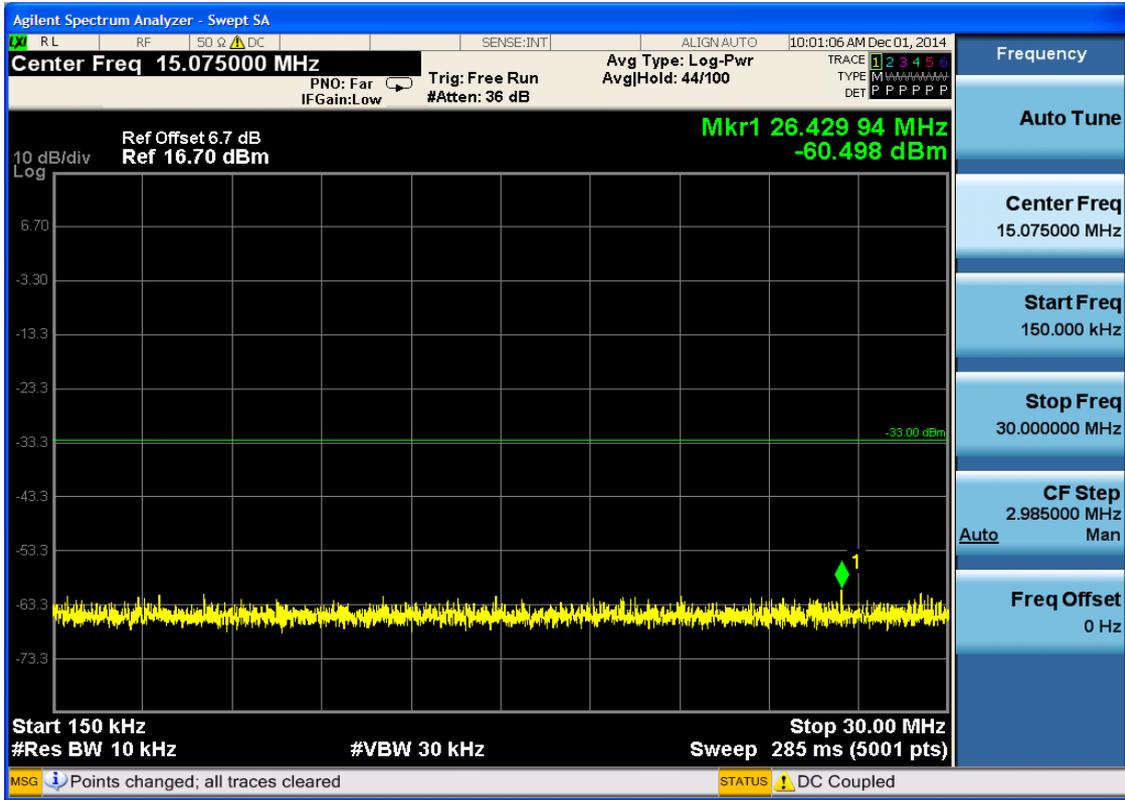


6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



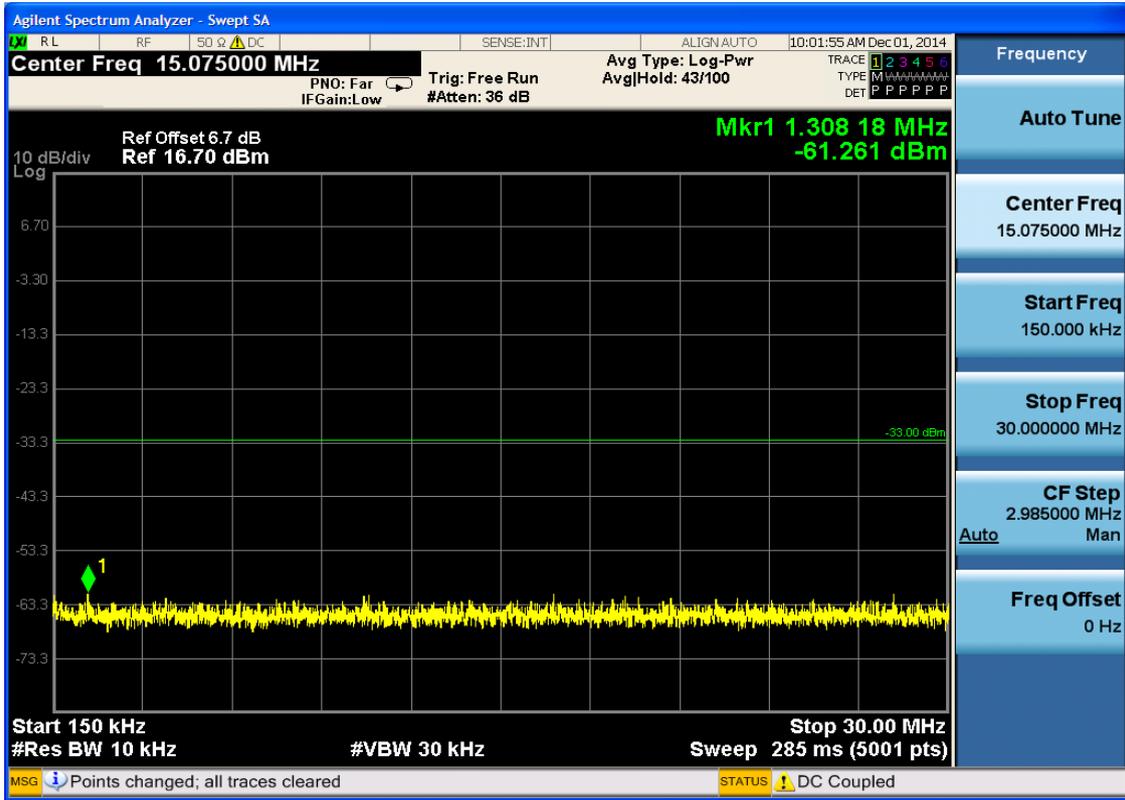






6.2.2.1.2 Test Channel = MCH

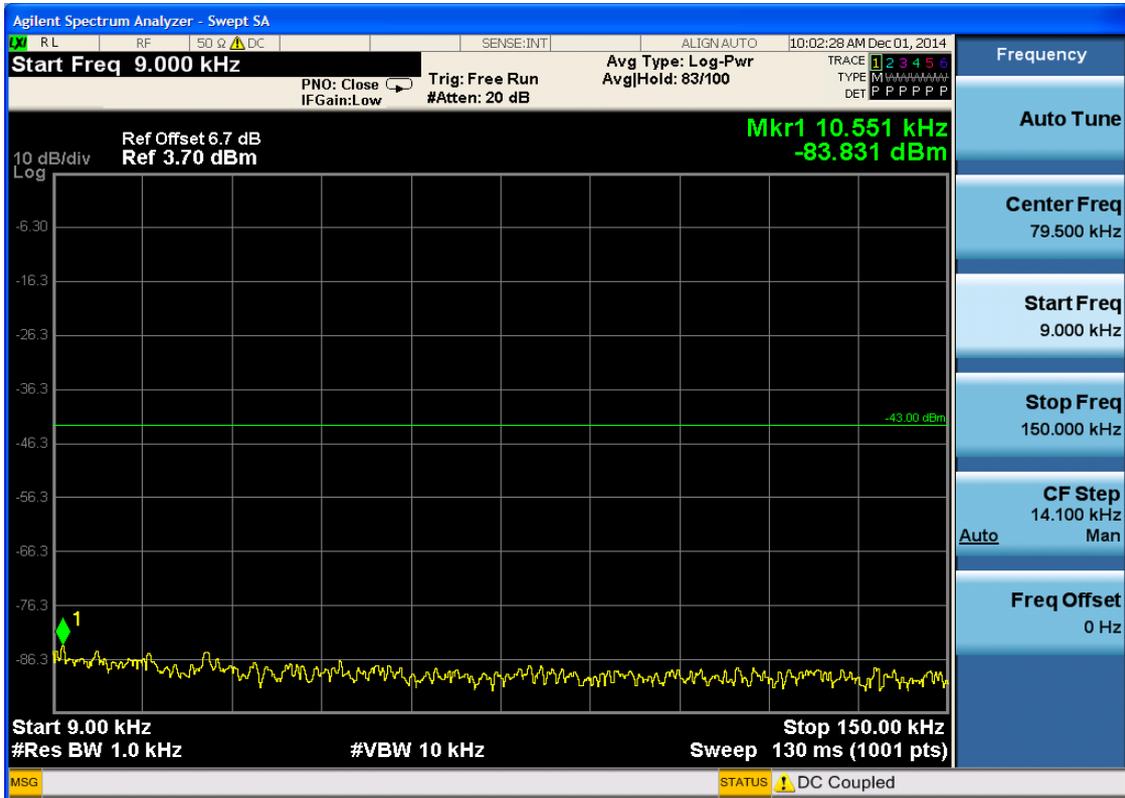


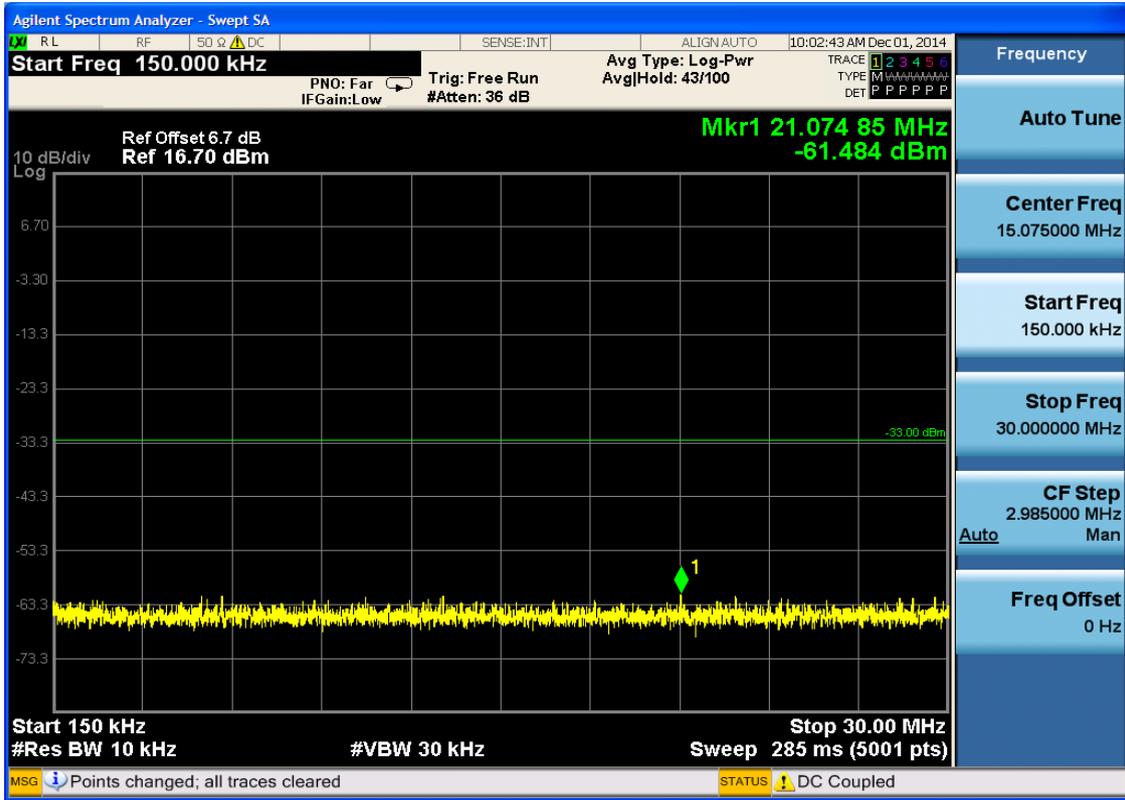






6.2.2.1.3 Test Channel = HCH





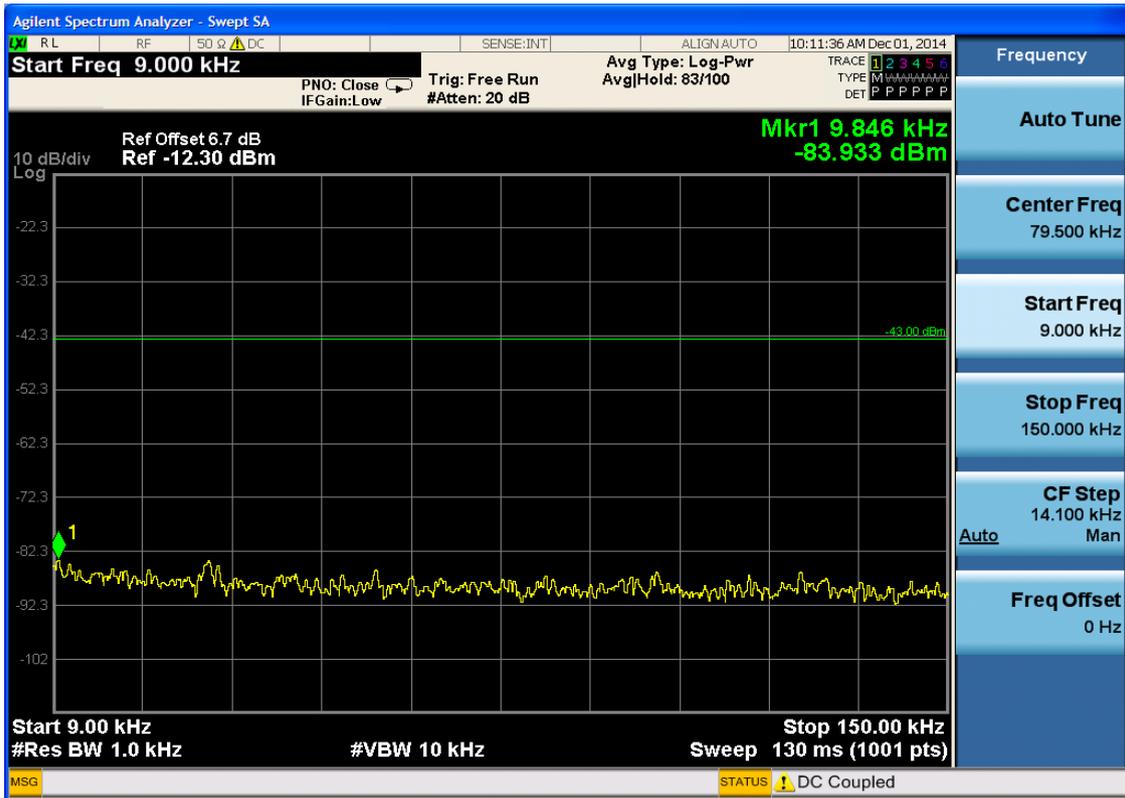


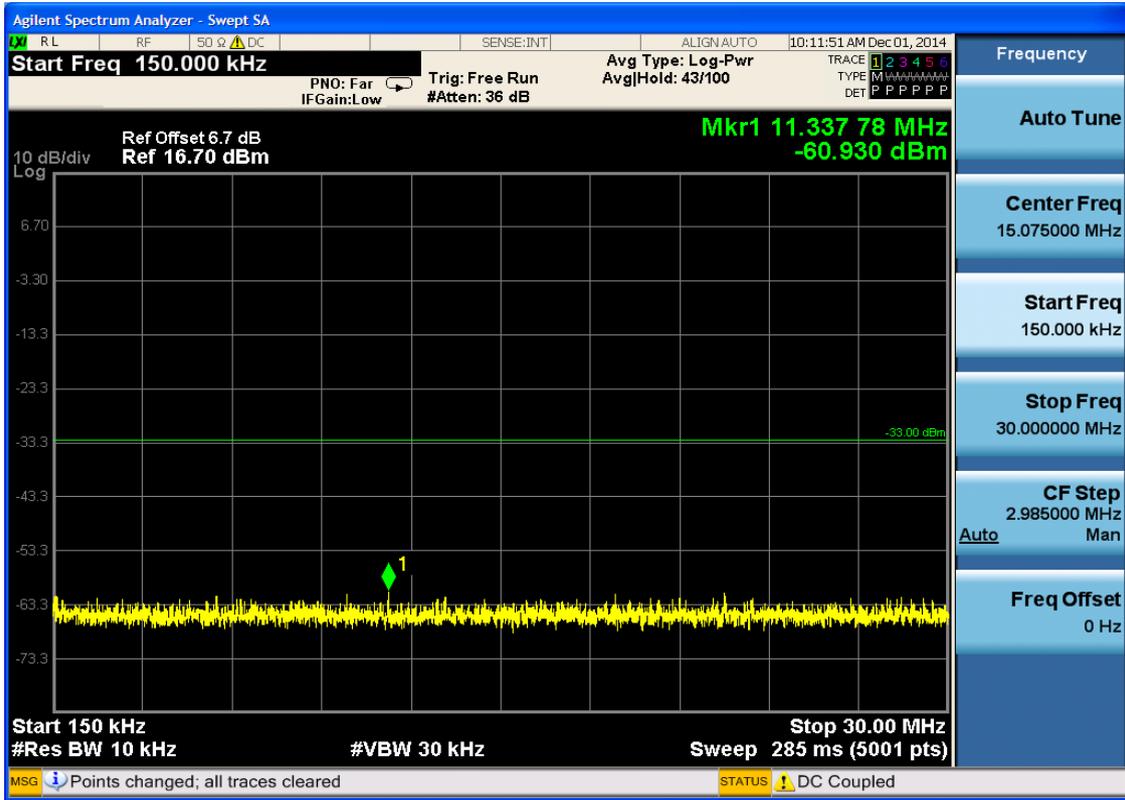


6.2.3 Test Band = WCDMA1700

6.2.3.1 Test Mode = UMTS/TM1

6.2.3.1.1 Test Channel = LCH

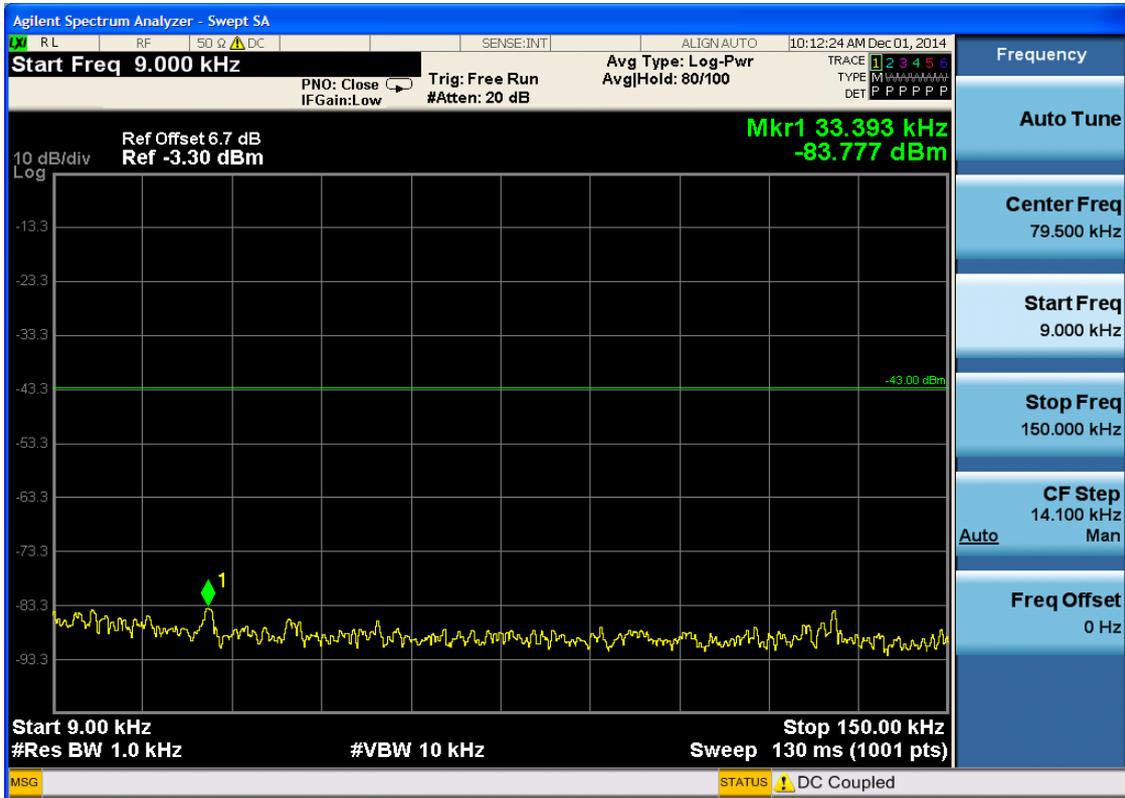


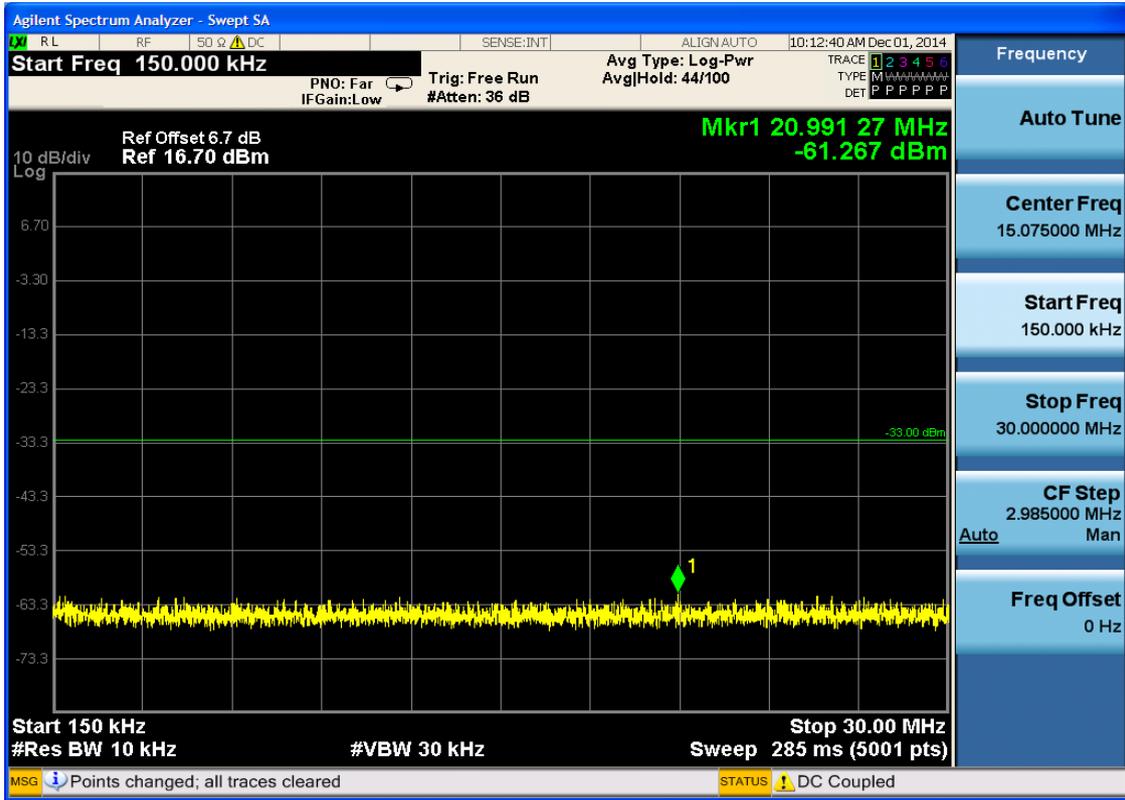






6.2.3.1.2 Test Channel = MCH

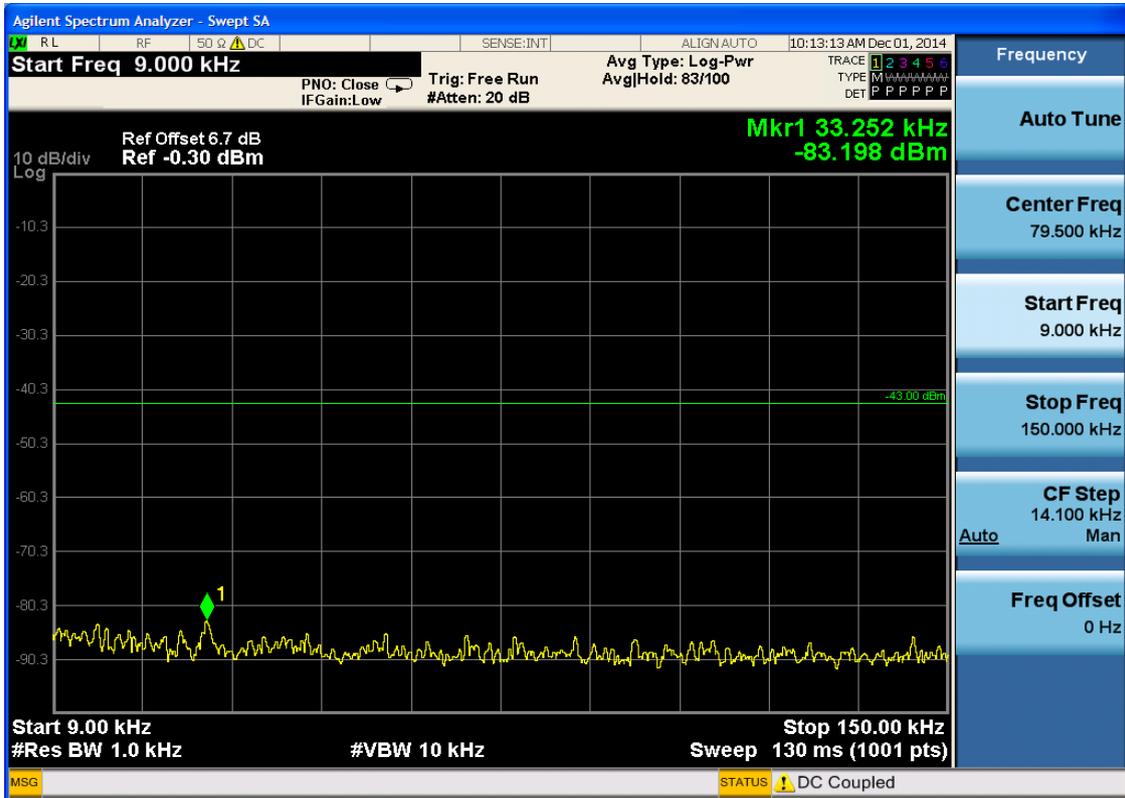


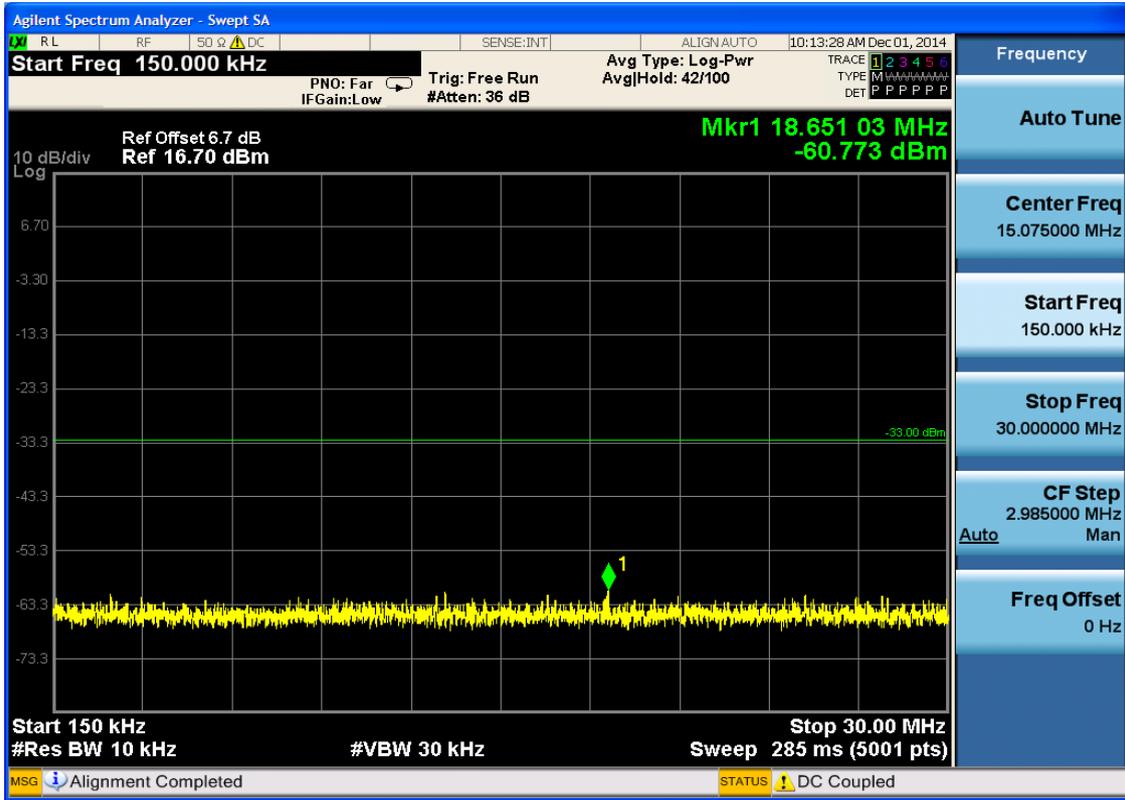






6.2.3.1.3 Test Channel = HCH







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

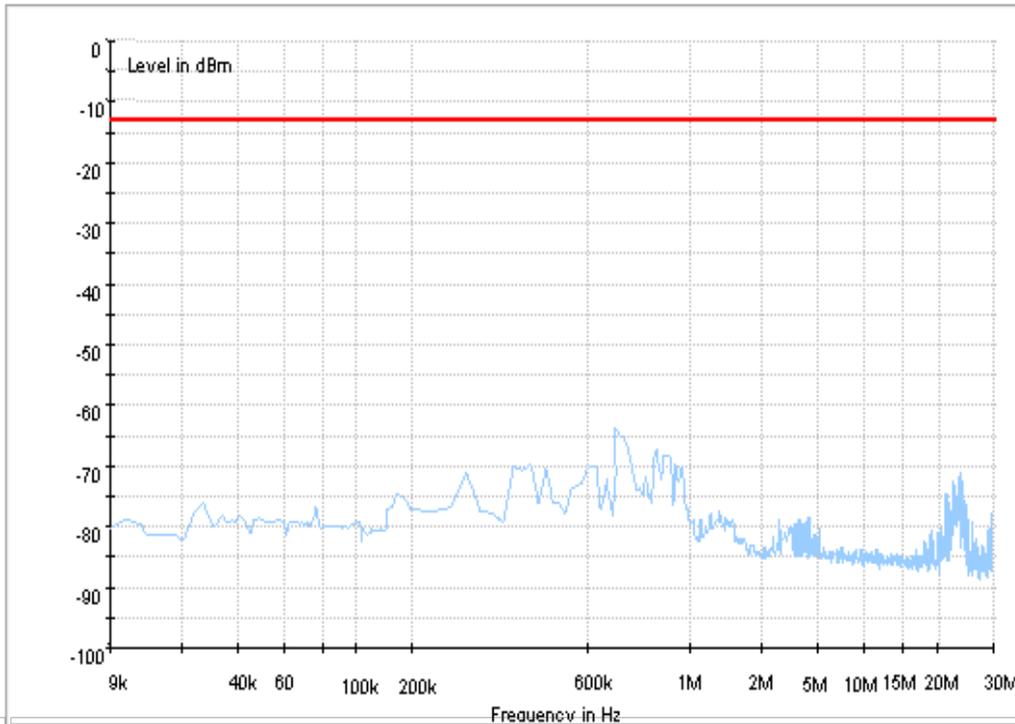
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

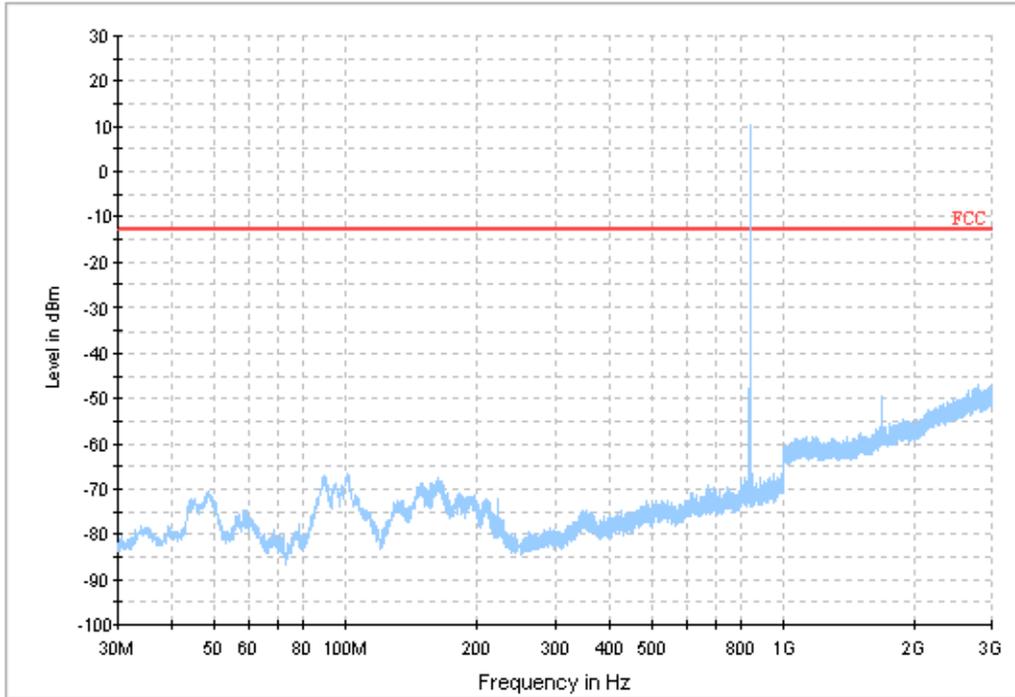
7.1 For GSM

7.1.1 Test Band = GSM850

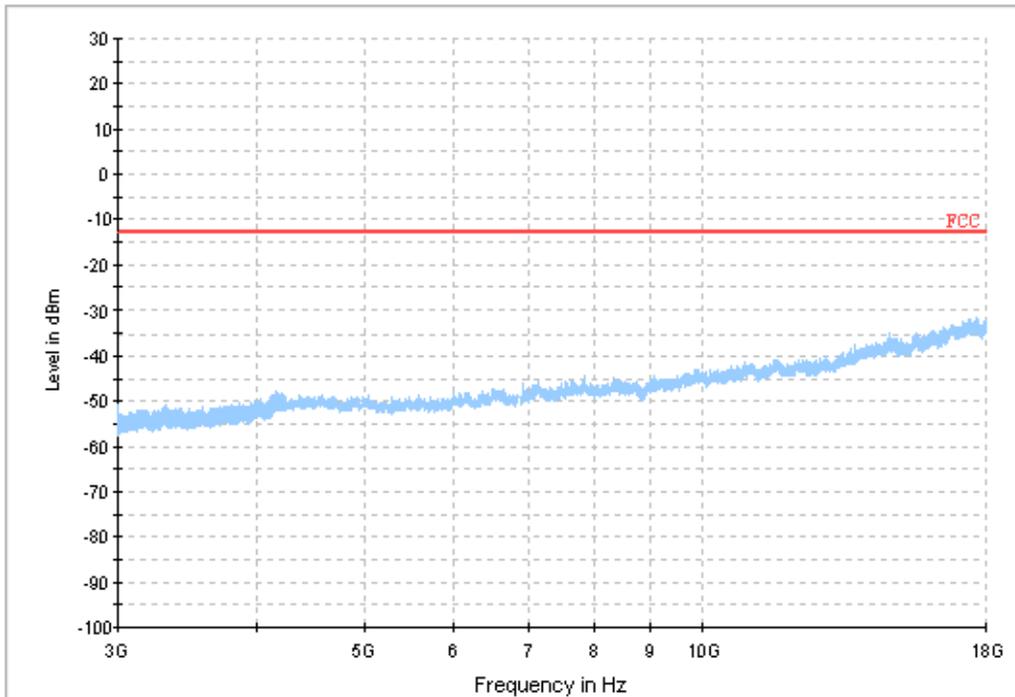
7.1.1.1 Test Mode = GSM/TM1



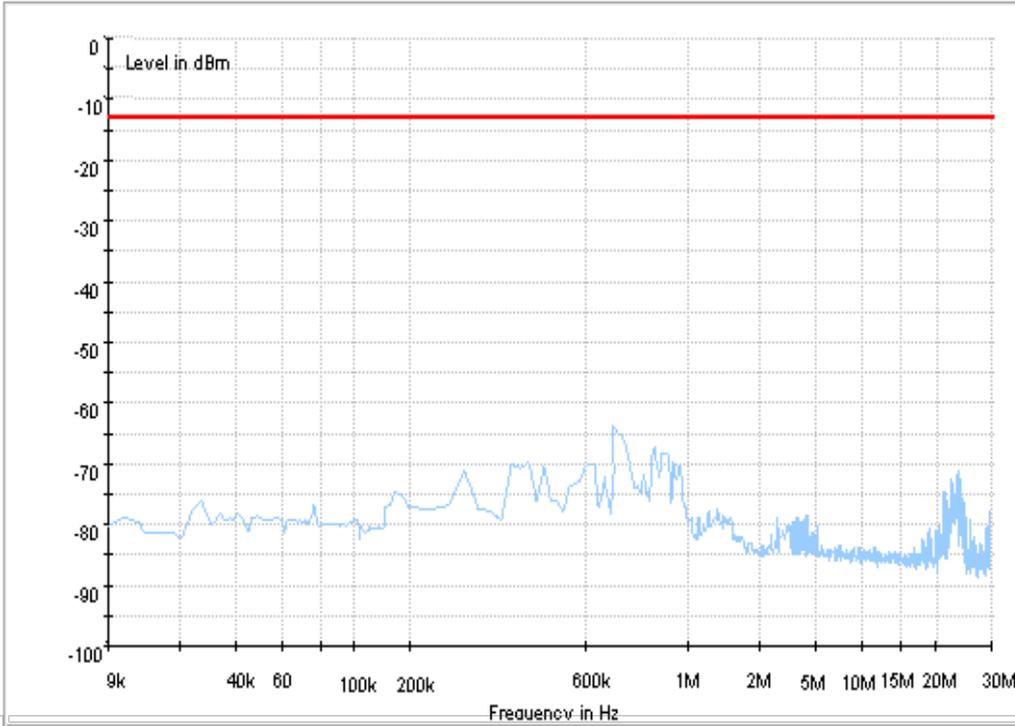
Copy of FCC PART22 GSM850_L



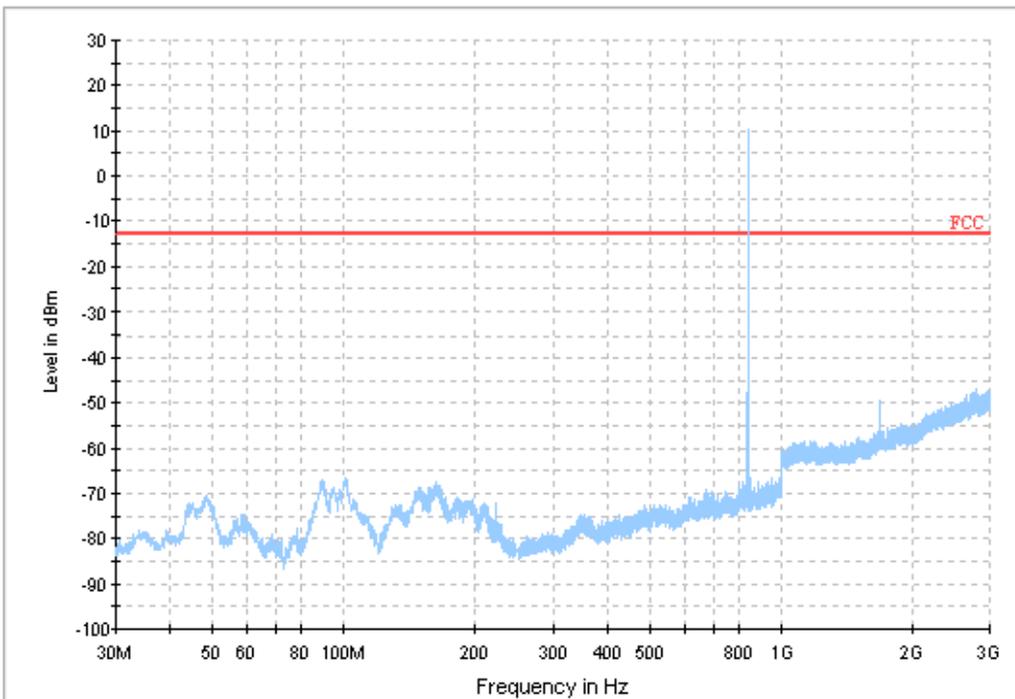
Copy of FCC PART22 GSM850_H



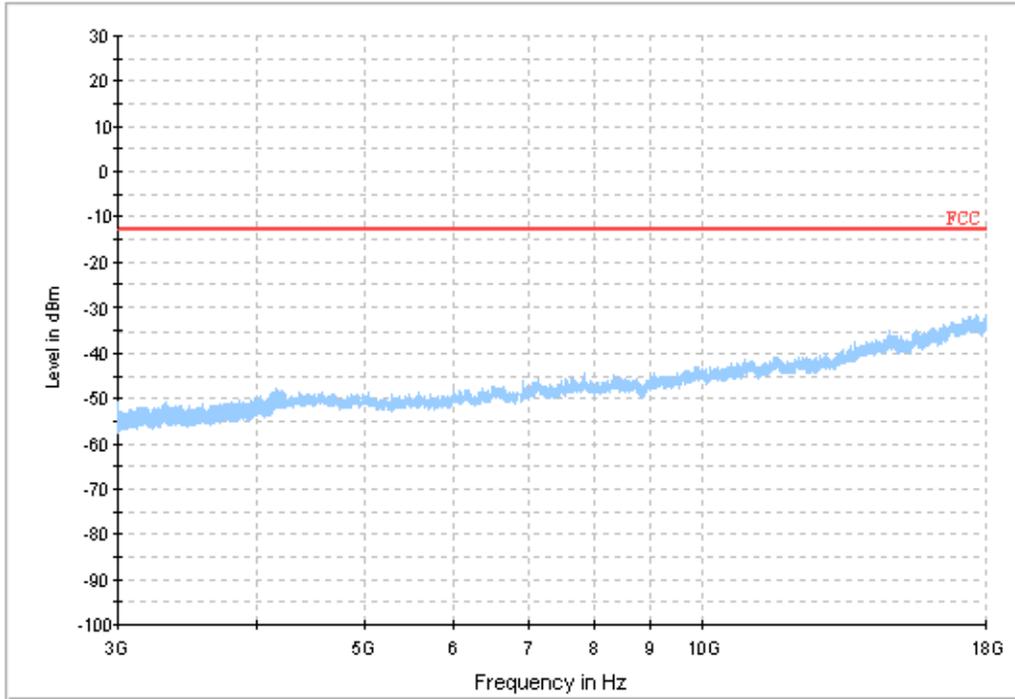
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

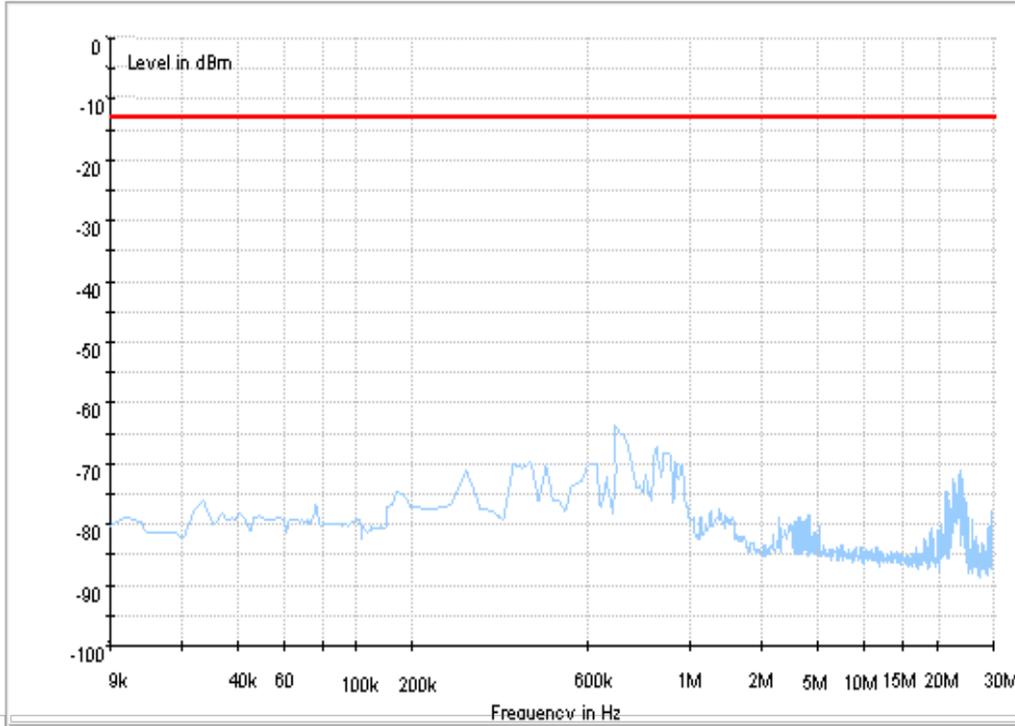


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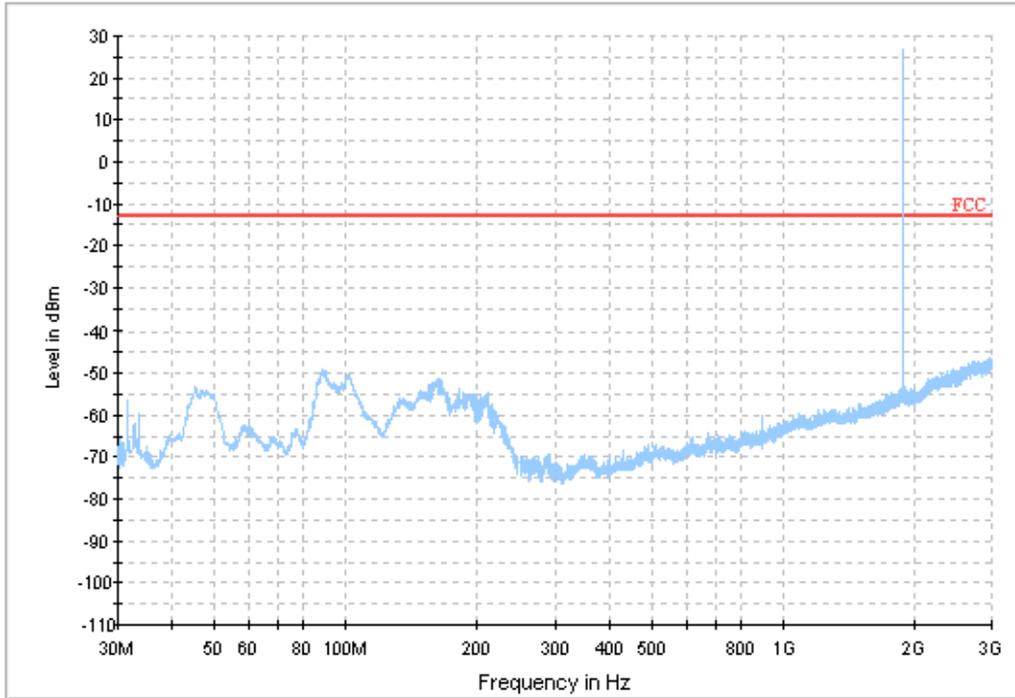


7.1.2 Test Band = GSM1900

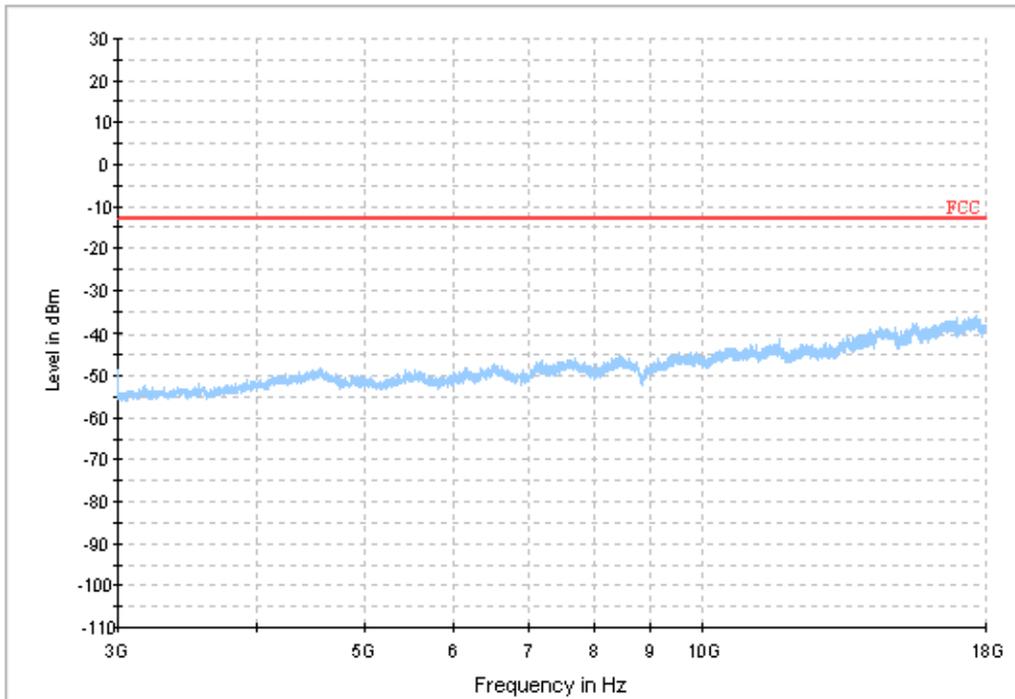
7.1.2.1 Test Mode = GSM/TM1

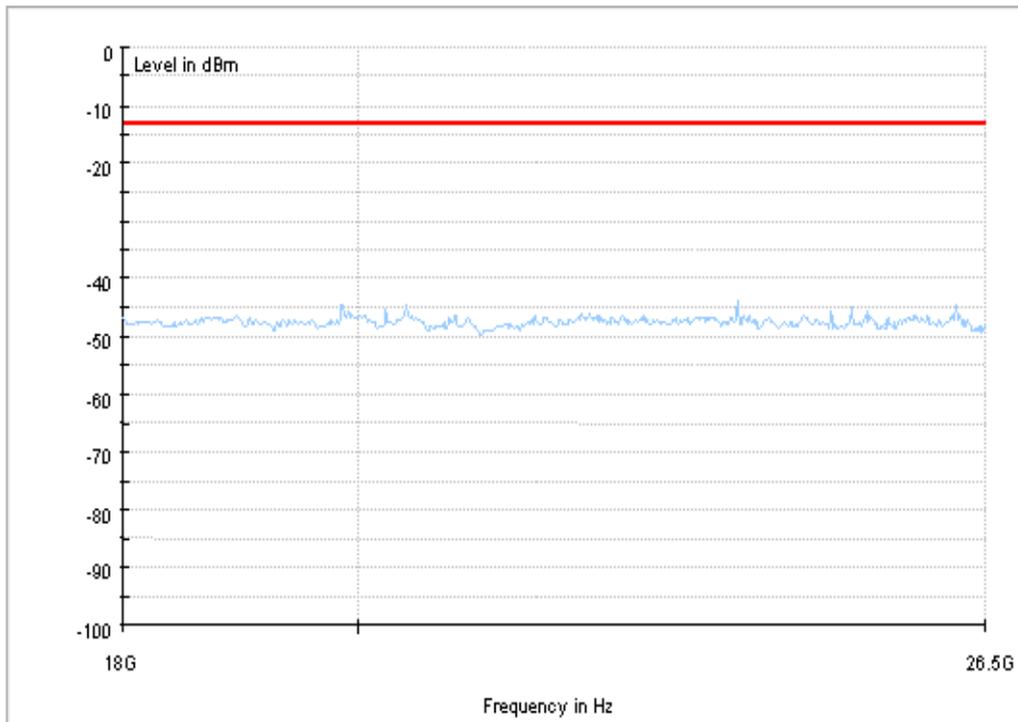


Copy of FCC PART24 GSM1900_L

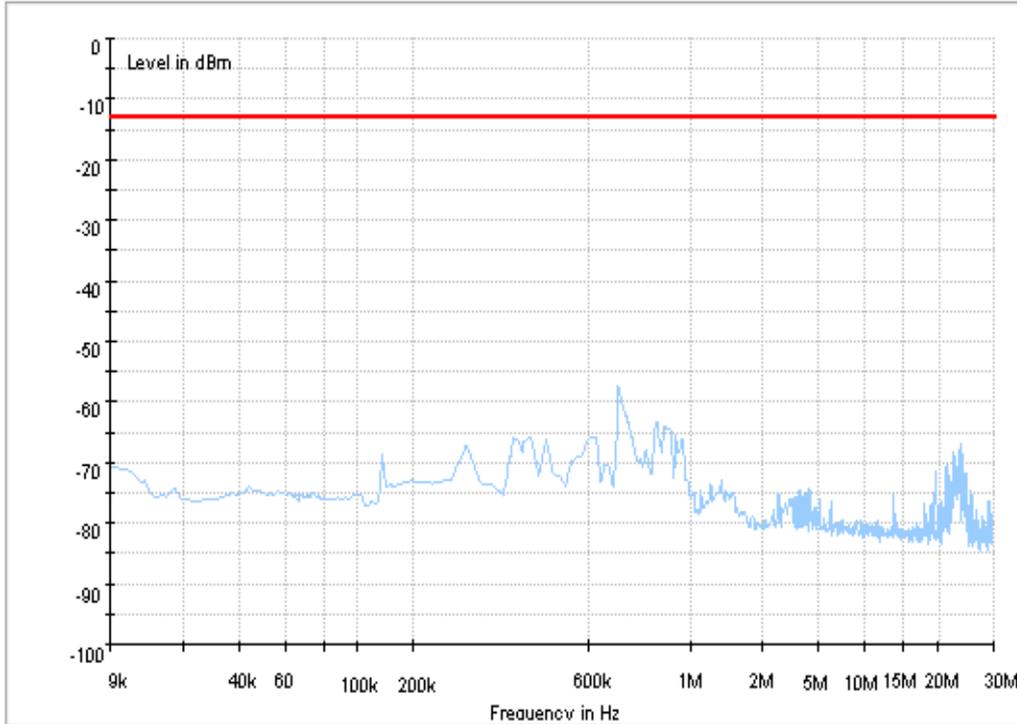


Copy of FCC PART24 GSM1900_H

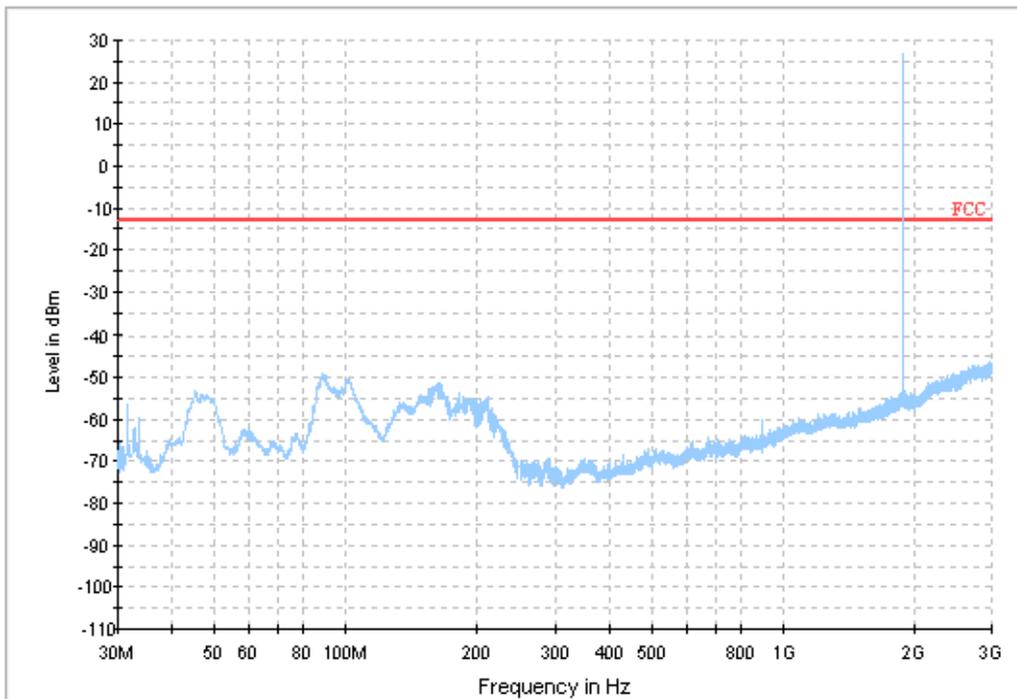




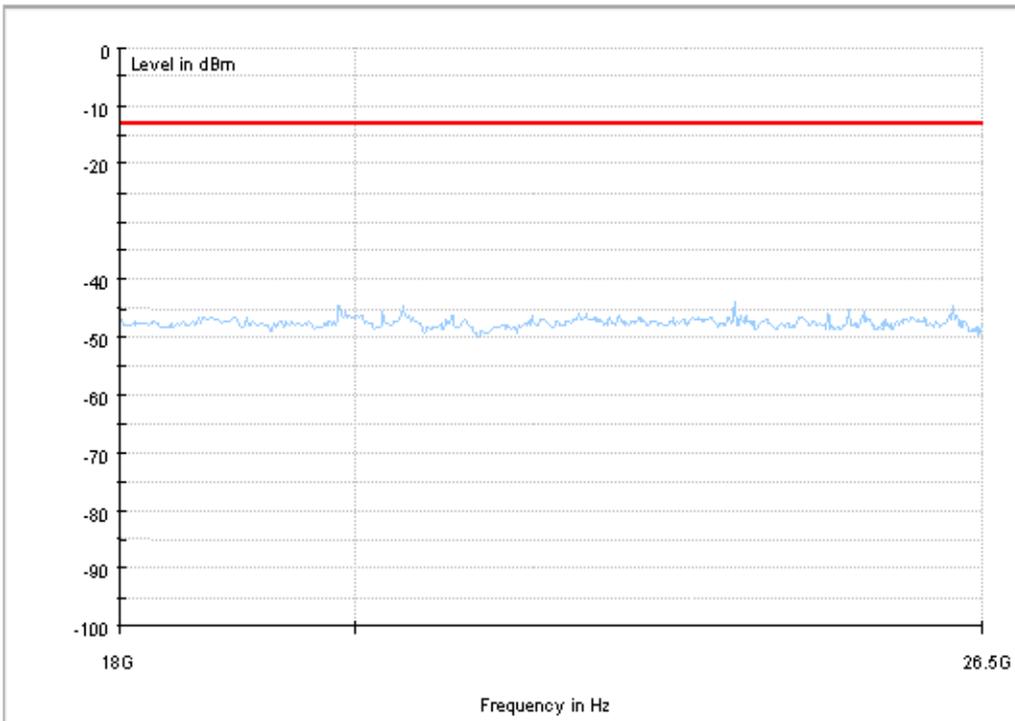
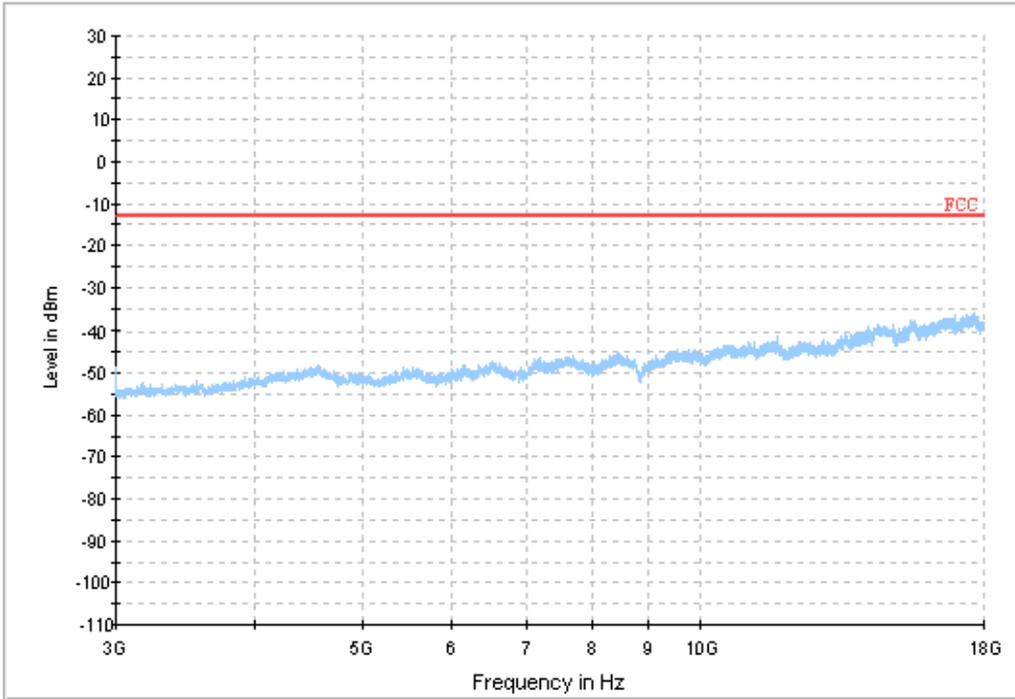
7.1.2.2 Test Mode = GSM/TM2



Copy of FCC PART24 GSM1900_L



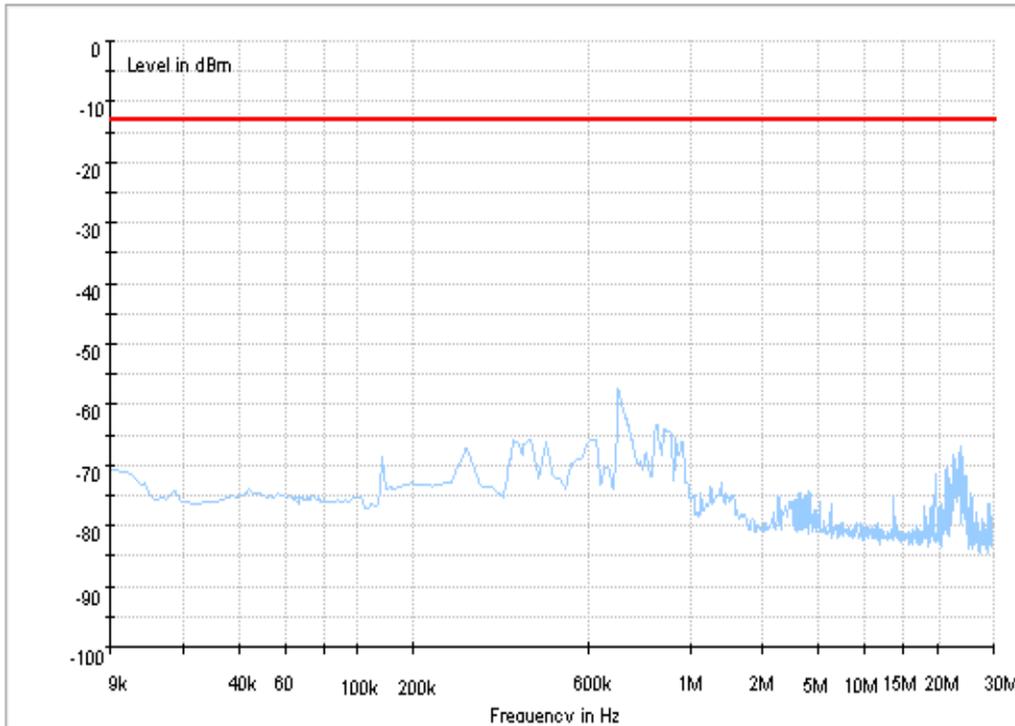
Copy of FCC PART24 GSM1900_H



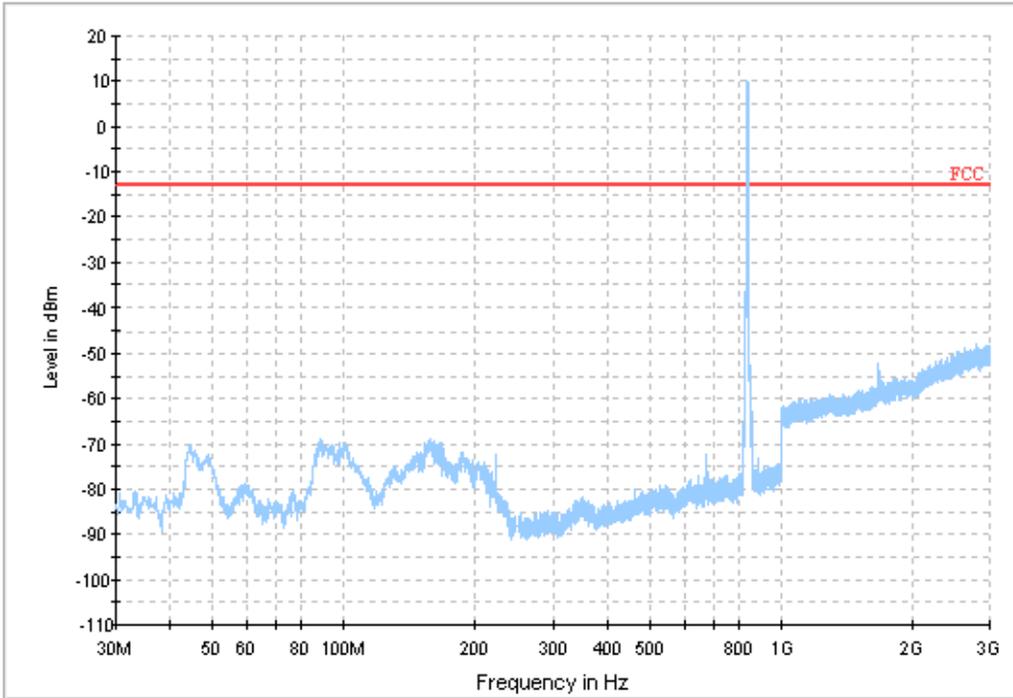
7.2 For UMTS

7.2.1 Test Band = WCDMA850

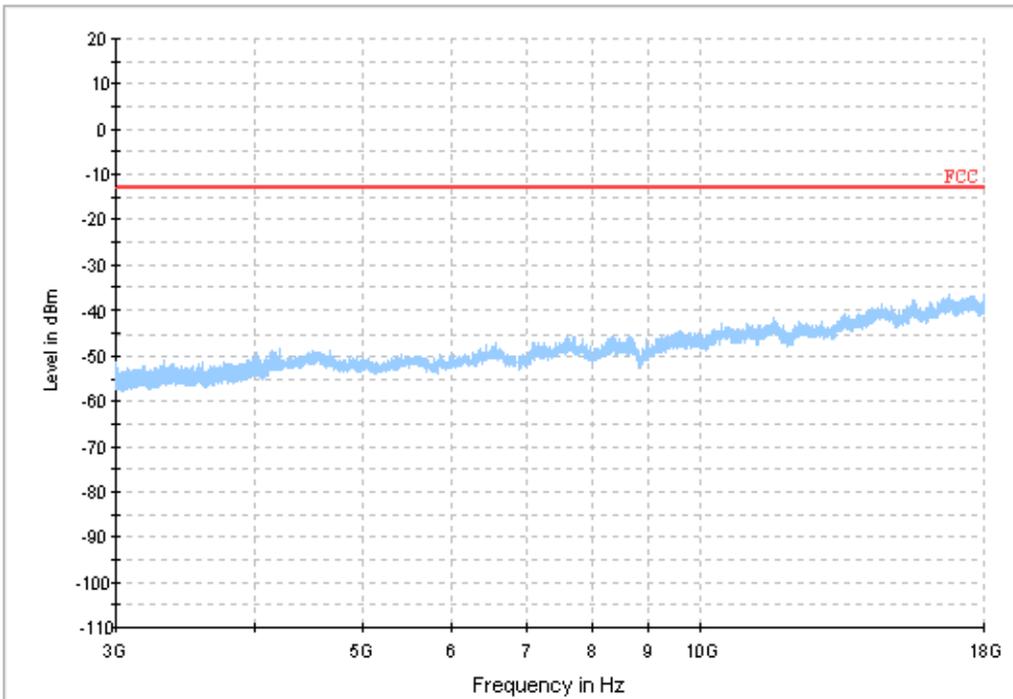
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

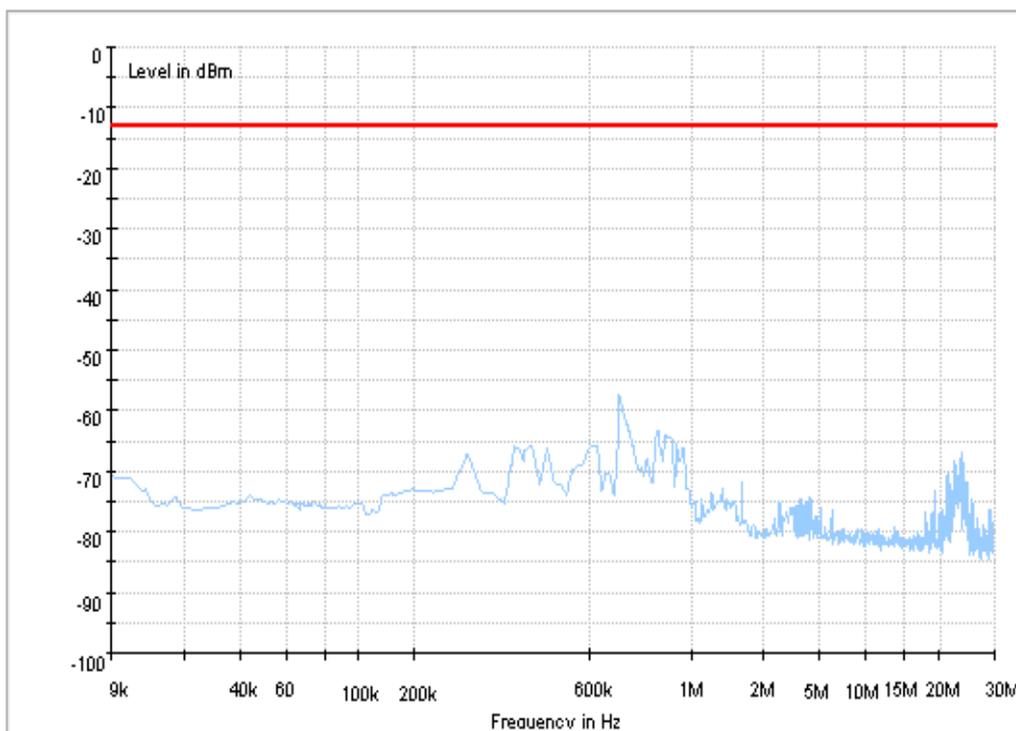


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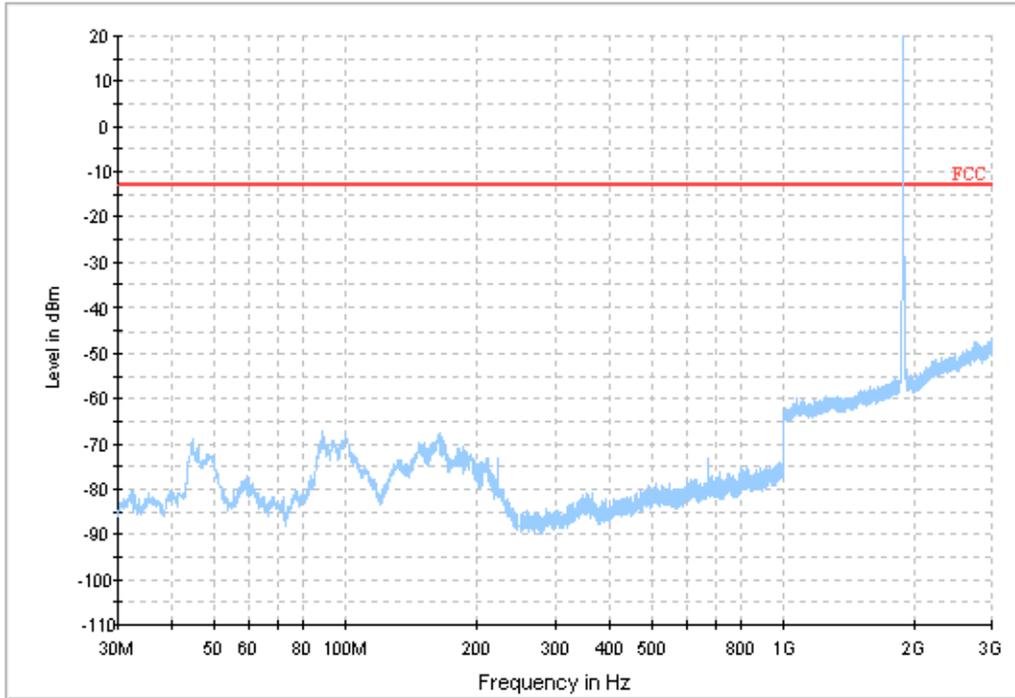


7.2.2 Test Band = WCDMA1900

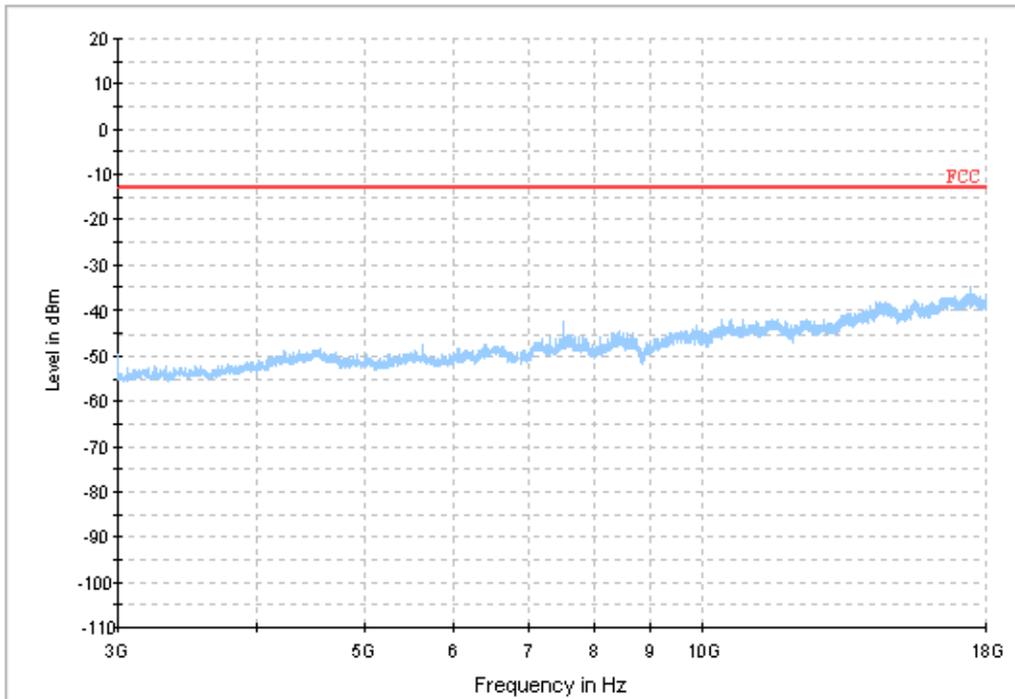
7.2.2.1 Test Mode = UMTS/TM1

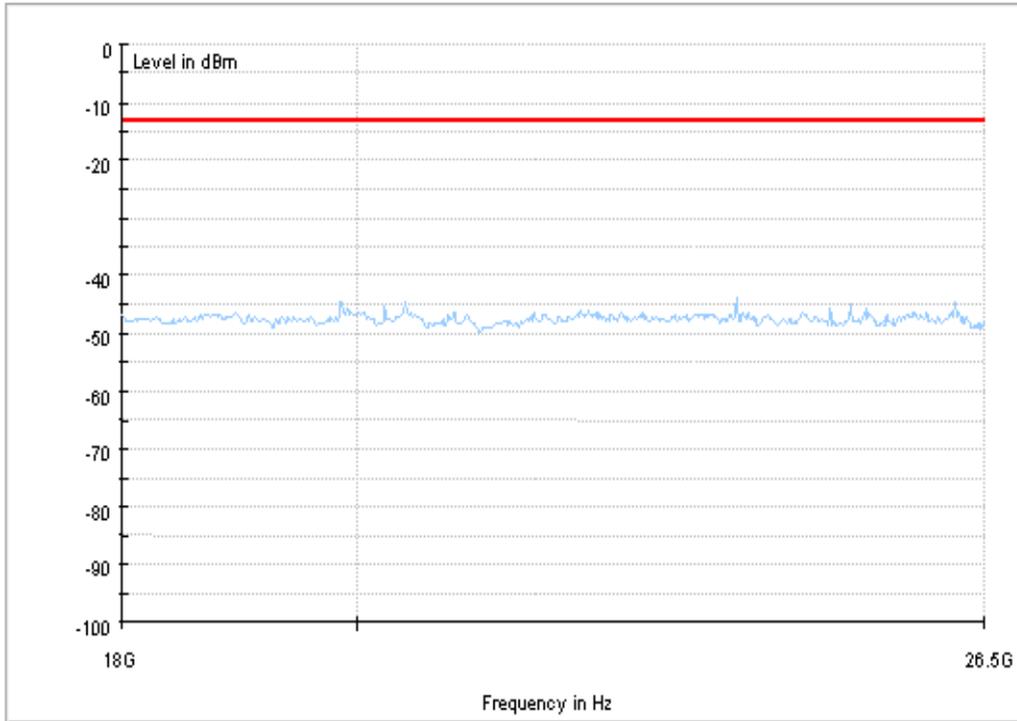


Copy of FCC PART24 WCDMA1900_L



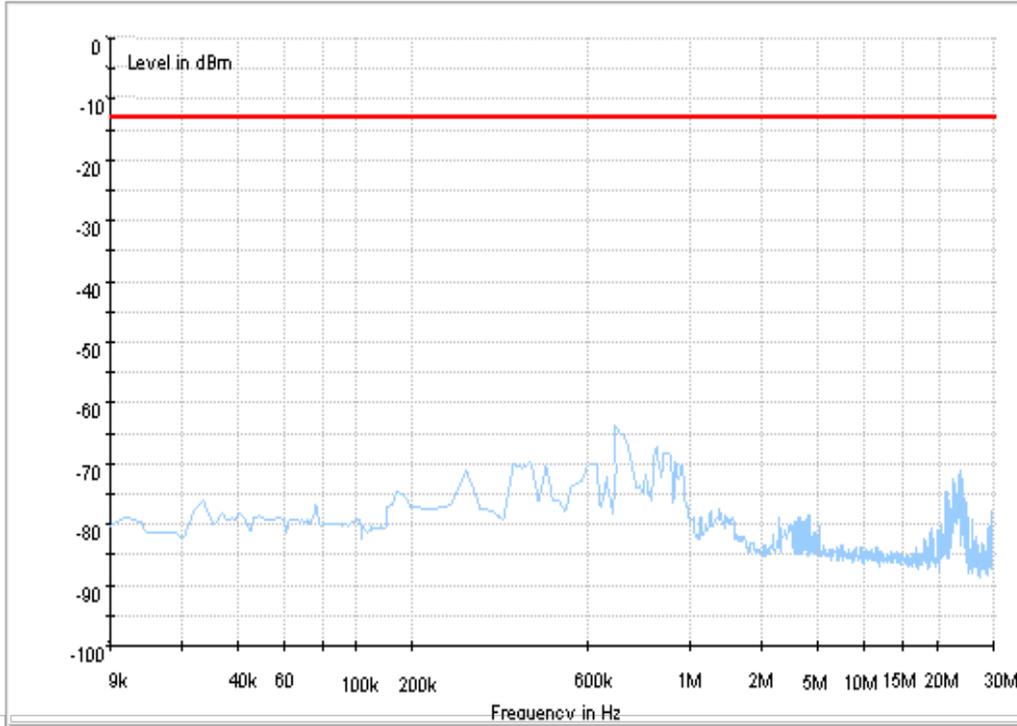
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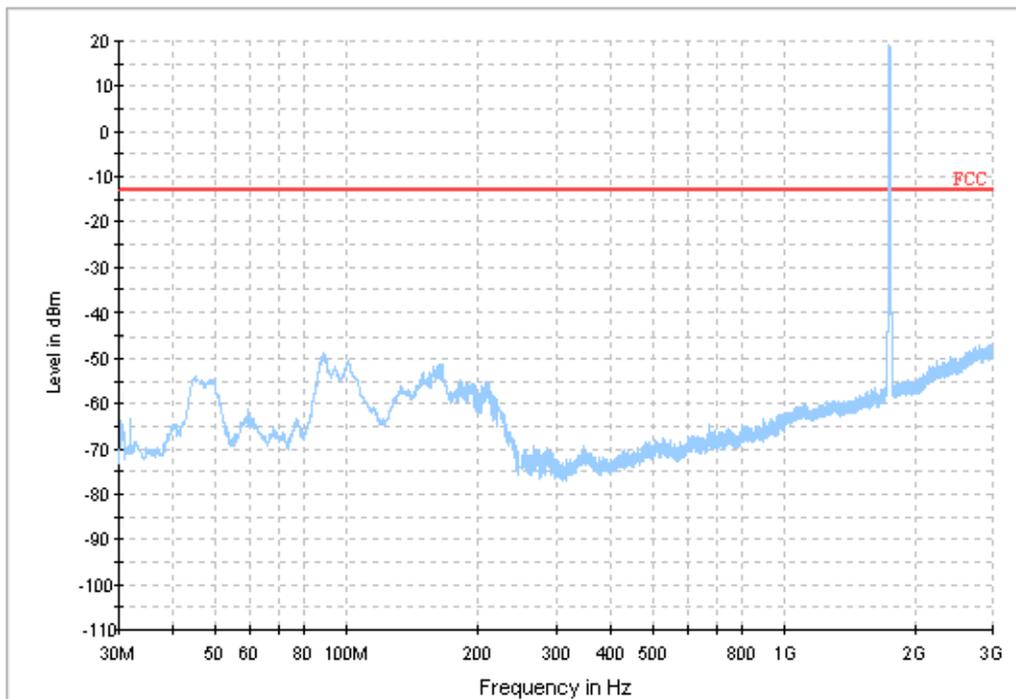


7.2.3 Test Band = WCDMA1700

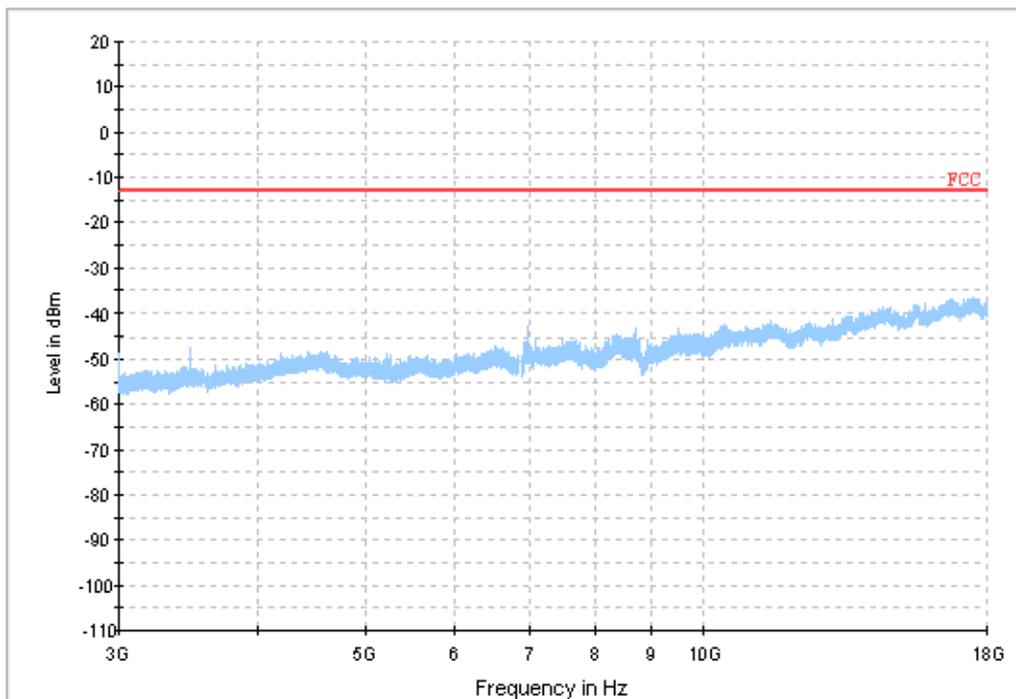
7.2.3.1 Test Mode = UMTS/TM1



Copy of FCC PART27 WCDMA1700_L



Copy of FCC PART27 WCDMA1700_H



8Appendix_H: Frequency Stability

8.1.1Frequency 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	14.21	.01724	PASS
				VN	12.59	.01528	PASS
				VH	10.27	.01246	PASS
		MCH	TN	VL	16.66	.01991	PASS
				VN	13.50	.01614	PASS
				VH	14.40	.01721	PASS
		HCH	TN	VL	13.88	.01635	PASS
				VN	15.30	.01803	PASS
				VH	14.72	.01734	PASS
	GSM/TM2	LCH	TN	VL	13.82	.01677	PASS
				VN	11.53	.01399	PASS
				VH	12.24	.01485	PASS
		MCH	TN	VL	8.59	.01027	PASS
				VN	10.75	.01285	PASS
				VH	9.43	.01127	PASS
		HCH	TN	VL	20.76	.02446	PASS
				VN	12.11	.01427	PASS
				VH	11.36	.01338	PASS
GSM1900	GSM/TM1	LCH	TN	VL	56.50	.03054	PASS
				VN	62.38	.03372	PASS
				VH	67.99	.03675	PASS
		MCH	TN	VL	53.92	.02868	PASS
				VN	53.85	.02864	PASS
				VH	55.98	.02978	PASS
		HCH	TN	VL	55.21	.02891	PASS
				VN	60.05	.03144	PASS
				VH	50.11	.02624	PASS
	GSM/TM2	LCH	TN	VL	50.24	.02715	PASS
				VN	54.79	.02961	PASS
				VH	57.18	.0309	PASS
		MCH	TN	VL	56.37	.02998	PASS
				VN	55.47	.02951	PASS
				VH			



Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	58.79	.03127	PASS
		HCH	TN	VL	55.73	.02918	PASS
				VN	65.86	.03449	PASS
				VH	56.24	.02945	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	1.16	0.0014	PASS
				VN	0.67	0.00081	PASS
				VH	-3.08	-0.00373	PASS
		MCH	TN	VL	0.47	0.00056	PASS
				VN	-1.92	-0.0023	PASS
				VH	-1.3	-0.00155	PASS
		HCH	TN	VL	-1.5	-0.00177	PASS
				VN	-2.17	-0.00256	PASS
				VH	-1.21	-0.00143	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-5.74	-0.0031	PASS
				VN	-8.09	-0.00437	PASS
				VH	-5.05	-0.00273	PASS
		MCH	TN	VL	-4.68	-0.00249	PASS
				VN	-8.04	-0.00428	PASS
				VH	-6.01	-0.0032	PASS
		HCH	TN	VL	-6.23	-0.00327	PASS
				VN	-7.42	-0.00389	PASS
				VH	-5.17	-0.00271	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	-0.34	-0.0002	PASS
				VN	1.6	0.00093	PASS
				VH	-0.44	-0.00026	PASS
		MCH	TN	VL	-0.49	-0.00028	PASS
				VN	-0.18	-0.0001	PASS
				VH	2.67	0.00154	PASS
		HCH	TN	VL	-6.62	-0.00378	PASS
				VN	-6.87	-0.00392	PASS
				VH	-7.86	-0.00448	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	14.53	.01763	PASS
				-20	11.82	.01434	PASS
				-10	16.40	.0199	PASS
				0	12.33	.01496	PASS
				10	14.53	.01763	PASS
				20	13.69	.01661	PASS
				30	12.72	.01543	PASS
				40	13.24	.01606	PASS
				50	14.66	.01779	PASS
		MCH	VN	-30	11.17	.01335	PASS
				-20	13.56	.01621	PASS
				-10	12.59	.01505	PASS
				0	11.56	.01382	PASS
				10	13.62	.01628	PASS
				20	11.36	.01358	PASS
	30			16.79	.02007	PASS	
	40			14.85	.01775	PASS	
	50			17.37	.02076	PASS	
	HCH	VN	-30	7.49	.00882	PASS	
			-20	14.79	.01742	PASS	
			-10	14.33	.01688	PASS	
			0	13.50	.0159	PASS	
			10	14.92	.01758	PASS	
			20	15.37	.01811	PASS	
			30	15.82	.01864	PASS	
			40	12.79	.01507	PASS	
			50	14.53	.01712	PASS	
	GSM/TM2	LCH	VN	-30	8.49	.0103	PASS
				-20	11.72	.01422	PASS
				-10	12.91	.01566	PASS
0				8.62	.01046	PASS	
10				9.78	.01187	PASS	
20				10.33	.01253	PASS	
30				14.24	.01728	PASS	
40				10.65	.01292	PASS	
50				9.85	.01195	PASS	



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	-30	13.98	.01671	PASS
				-20	13.66	.01633	PASS
				-10	11.85	.01416	PASS
				0	8.68	.01038	PASS
				10	11.07	.01323	PASS
				20	11.59	.01385	PASS
				30	7.97	.00953	PASS
				40	10.98	.01312	PASS
				50	8.43	.01008	PASS
		HCH	VN	-30	14.82	.01746	PASS
				-20	14.27	.01681	PASS
				-10	8.98	.01058	PASS
				0	11.07	.01304	PASS
				10	13.46	.01586	PASS
				20	8.59	.01012	PASS
				30	10.40	.01225	PASS
				40	9.49	.01118	PASS
				50	10.98	.01294	PASS
WCDMA850	UMTS/TM1	LCH	VN	-30	-0.44	-.00053	PASS
				-20	-1.42	-.00172	PASS
				-10	2.43	.00294	PASS
				0	2.18	.00264	PASS
				10	-2.37	-.00287	PASS
				20	2.46	.00298	PASS
				30	1.16	.0014	PASS
				40	0.17	.00021	PASS
				50	-3.42	-.00414	PASS
		MCH	VN	-30	-1.11	-.00133	PASS
				-20	-1.13	-.00135	PASS
				-10	2.33	.00279	PASS
				0	-1.10	-.00132	PASS
				10	-0.12	-.00014	PASS
				20	0.87	.00104	PASS
				30	-2.20	-.00263	PASS
				40	-0.44	-.00053	PASS
				50	0.69	.00082	PASS
		HCH	VN	-30	0.11	.00013	PASS
				-20	-2.14	-.00253	PASS
				-10	1.05	.00124	PASS
				0	0.41	.00048	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	-0.50	-.00059	PASS
				20	0.67	.00079	PASS
				30	5.05	.00597	PASS
				40	1.62	.00191	PASS
				50	-0.72	-.00085	PASS
GSM1900	GSM/TM1	LCH	VN	-30	62.57	.03382	PASS
				-20	58.95	.03186	PASS
				-10	51.79	.02799	PASS
				0	59.15	.03197	PASS
				10	53.79	.02907	PASS
				20	55.66	.03008	PASS
				30	57.02	.03082	PASS
				40	50.17	.02712	PASS
		50	51.92	.02806	PASS		
		MCH	VN	-30	56.11	.02985	PASS
				-20	61.80	.03287	PASS
				-10	56.69	.03015	PASS
				0	56.44	.03002	PASS
				10	58.76	.03126	PASS
				20	55.73	.02964	PASS
				30	47.85	.02545	PASS
	40			57.66	.03067	PASS	
	50	45.20	.02404	PASS			
	HCH	VN	-30	66.77	.03496	PASS	
			-20	57.28	.02999	PASS	
			-10	66.64	.03489	PASS	
			0	51.98	.02722	PASS	
			10	58.44	.0306	PASS	
			20	55.66	.02914	PASS	
			30	53.21	.02786	PASS	
			40	59.15	.03097	PASS	
	50	61.08	.03198	PASS			
	GSM/TM2	LCH	VN	-30	52.66	.02846	PASS
				-20	57.53	.03109	PASS
				-10	53.98	.02918	PASS
				0	57.18	.0309	PASS
				10	53.27	.02879	PASS
20				58.34	.03153	PASS	
30				67.90	.0367	PASS	
40				55.24	.02986	PASS	



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	50	54.92	.02968	PASS
				-30	67.99	.03616	PASS
				-20	57.31	.03048	PASS
				-10	54.40	.02894	PASS
				0	51.17	.02722	PASS
				10	59.86	.03184	PASS
				20	58.89	.03132	PASS
				30	59.44	.03162	PASS
				40	62.38	.03318	PASS
				50	55.02	.02927	PASS
		HCH	VN	-30	54.01	.02828	PASS
				-20	53.21	.02786	PASS
				-10	57.37	.03004	PASS
				0	56.44	.02955	PASS
				10	53.82	.02818	PASS
				20	59.54	.03118	PASS
				30	55.69	.02916	PASS
				40	61.05	.03197	PASS
				50	60.08	.03146	PASS
				WCDMA1900	UMTS/TM1	LCH	VN
-20	3.74	.00202	PASS				
-10	3.22	.00174	PASS				
0	6.33	.00342	PASS				
10	5.11	.00276	PASS				
20	3.98	.00215	PASS				
30	4.47	.00241	PASS				
40	4.39	.00237	PASS				
50	4.15	.00224	PASS				
MCH	VN	-30	1.42			.00076	PASS
		-20	1.83			.00097	PASS
		-10	1.75			.00093	PASS
		0	3.72			.00198	PASS
		10	2.35			.00125	PASS
		20	0.87			.00046	PASS
		30	5.95			.00316	PASS
		40	3.52			.00187	PASS
		50	4.35			.00231	PASS
HCH	VN	-30	2.84			.00149	PASS
		-20	3.94			.00207	PASS
		-10	1.92			.00101	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				0	5.43	.00285	PASS
				10	2.11	.00111	PASS
				20	4.87	.00255	PASS
				30	-1.54	-.00081	PASS
				40	3.16	.00166	PASS
				50	3.56	.00187	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	5.34	.00312	PASS
				-20	3.85	.00225	PASS
				-10	4.29	.00251	PASS
				0	4.87	.00284	PASS
				10	7.37	.0043	PASS
				20	4.61	.00269	PASS
				30	5.08	.00297	PASS
				40	5.14	.003	PASS
				50	6.59	.00385	PASS
		MCH	VN	-30	-3.54	-.00204	PASS
				-20	-0.56	-.00032	PASS
				-10	-3.16	-.00182	PASS
				0	-2.81	-.00162	PASS
				10	-5.25	-.00303	PASS
				20	-4.49	-.00259	PASS
				30	-2.40	-.00139	PASS
				40	-0.93	-.00054	PASS
				50	-3.36	-.00194	PASS
		HCH	VN	-30	-0.55	-.00031	PASS
				-20	-3.56	-.00203	PASS
				-10	-4.01	-.00229	PASS
				0	-3.20	-.00183	PASS
				10	-3.89	-.00222	PASS
				20	-1.63	-.00093	PASS
				30	-4.35	-.00248	PASS
				40	-4.15	-.00237	PASS
				50	-4.84	-.00276	PASS



END