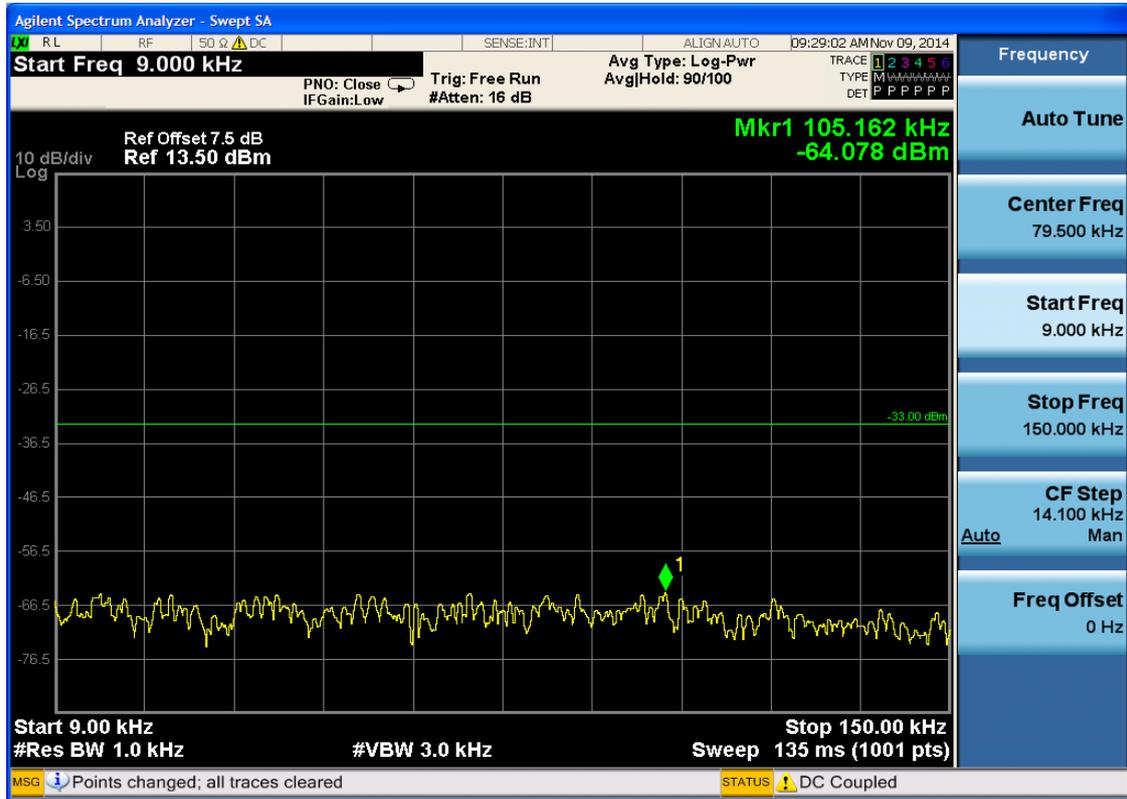
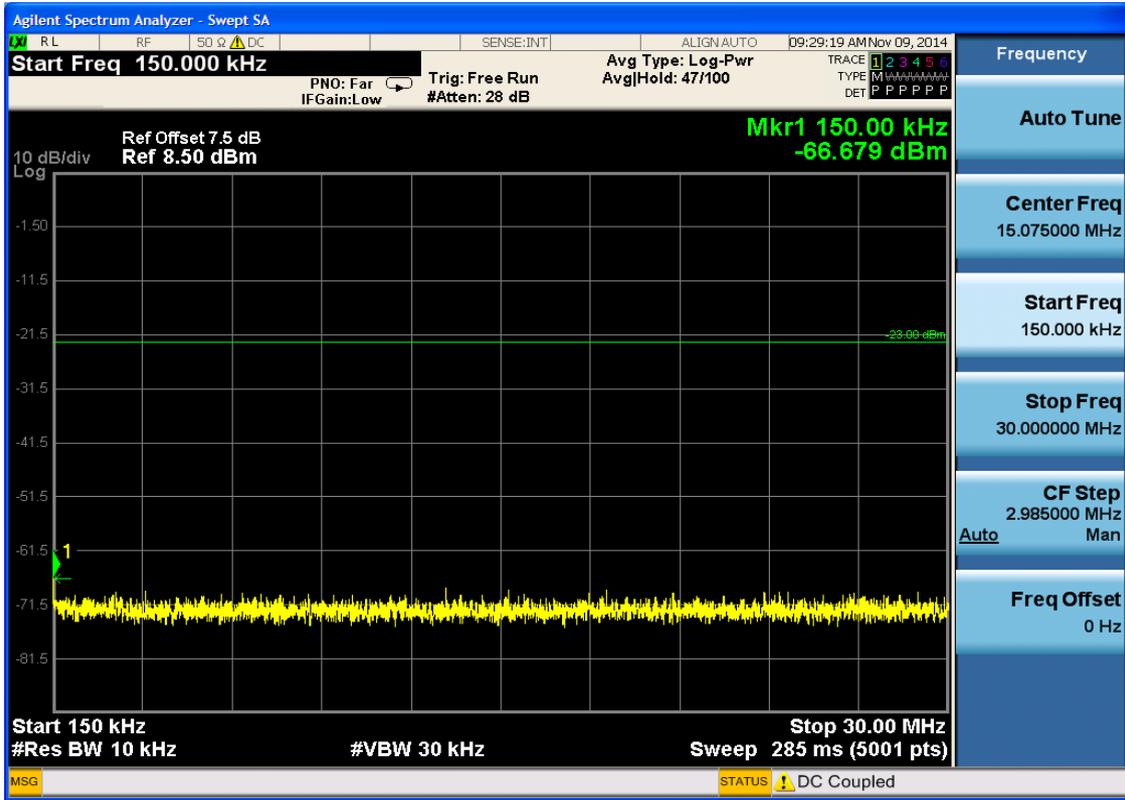
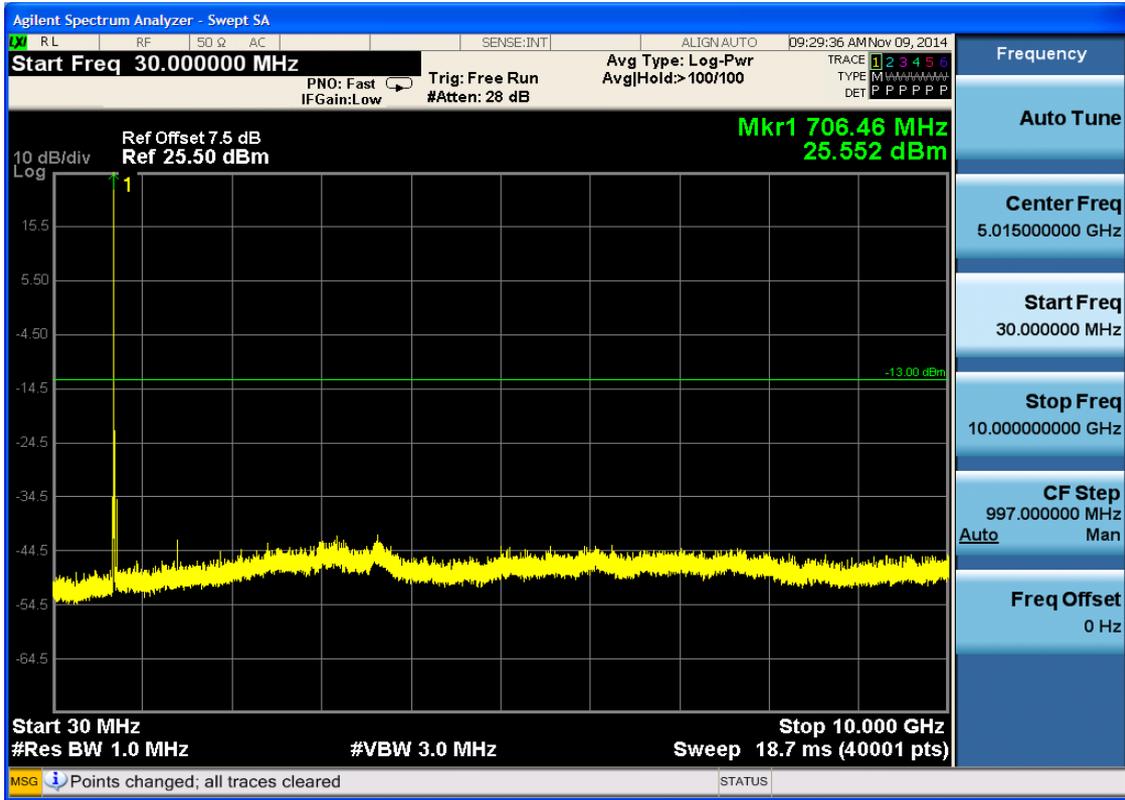


6.3.1.2.2.3 Test Channel = HCH

6.3.1.2.2.3.1 Test RB = RB1#0







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

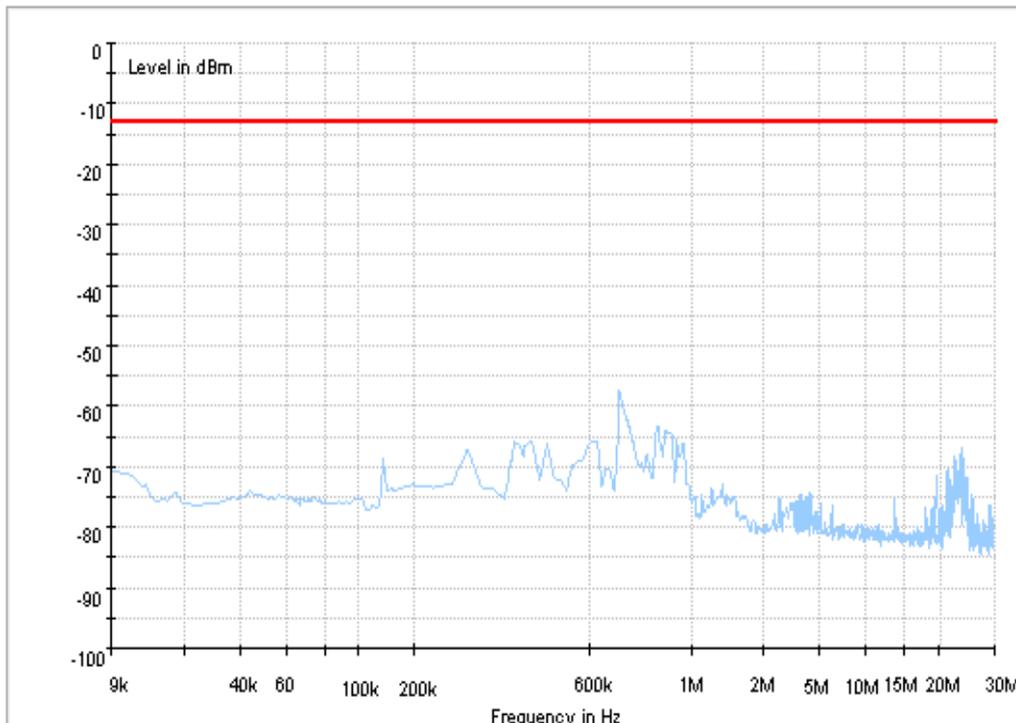
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

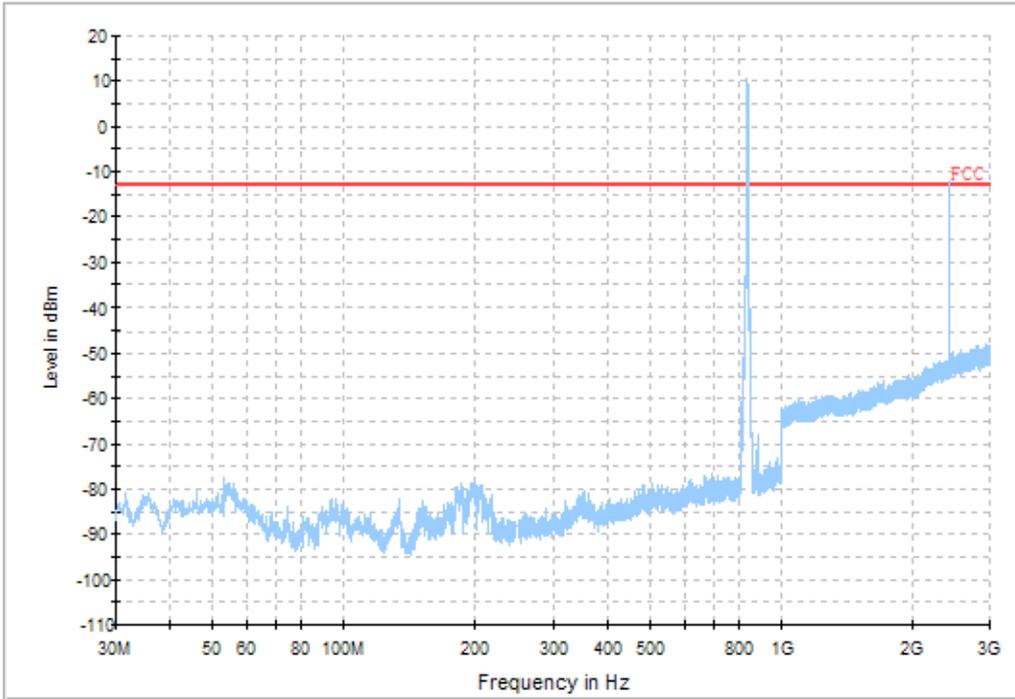
7.1 For UMTS

7.1.1 Test Band = WCDMA850

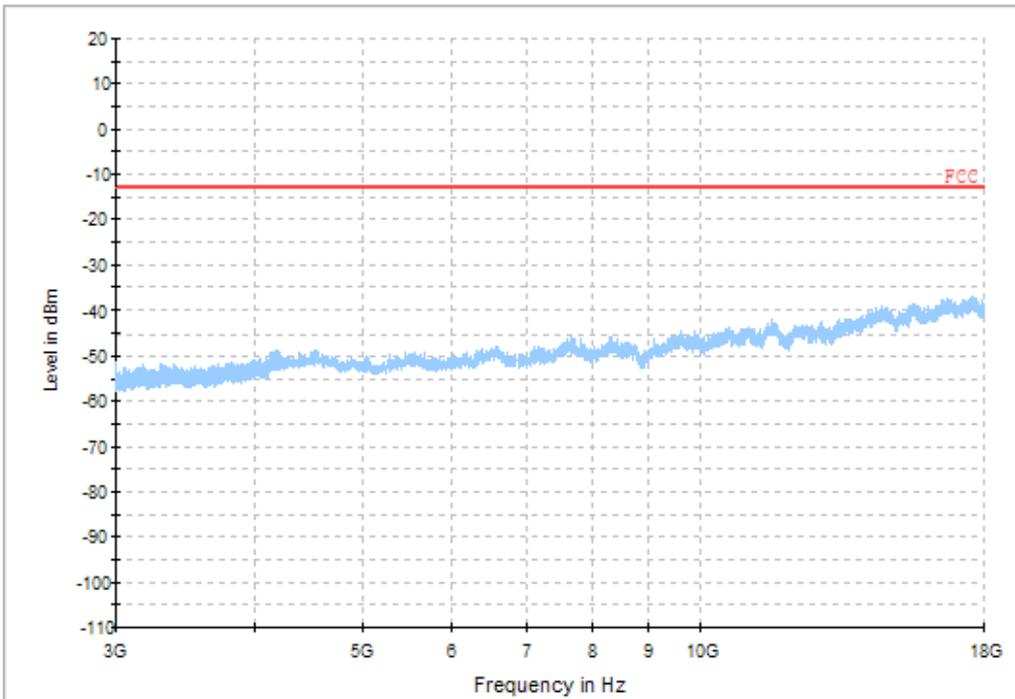
7.1.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

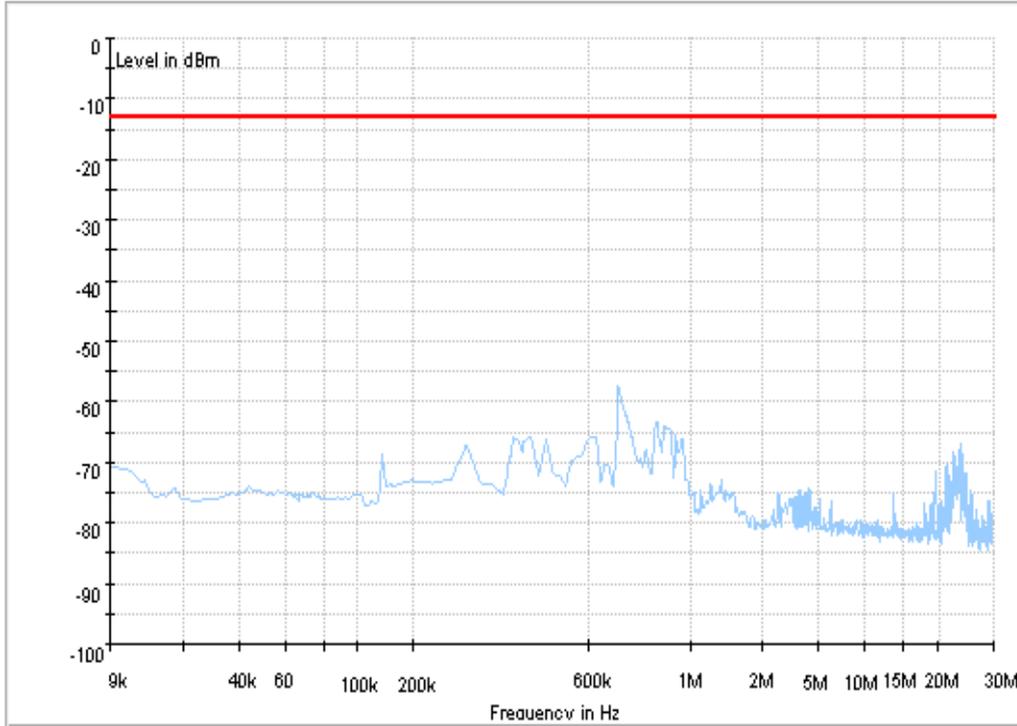


Copy of FCC PART22 WCDMA850_H

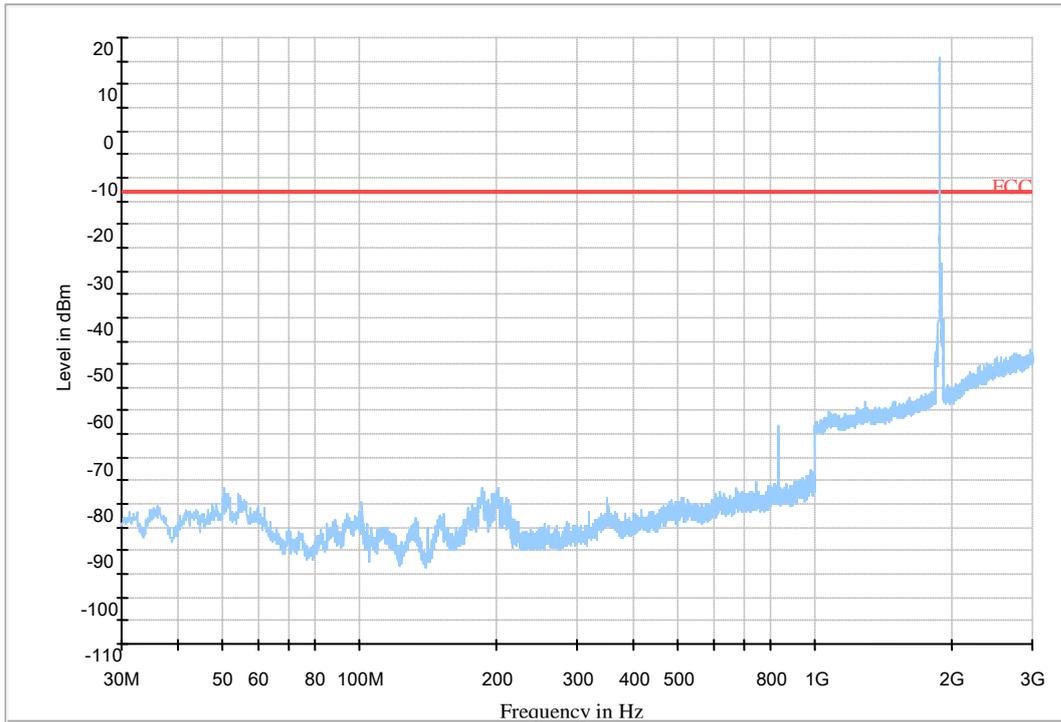


7.2.1 Test Band = WCDMA1900

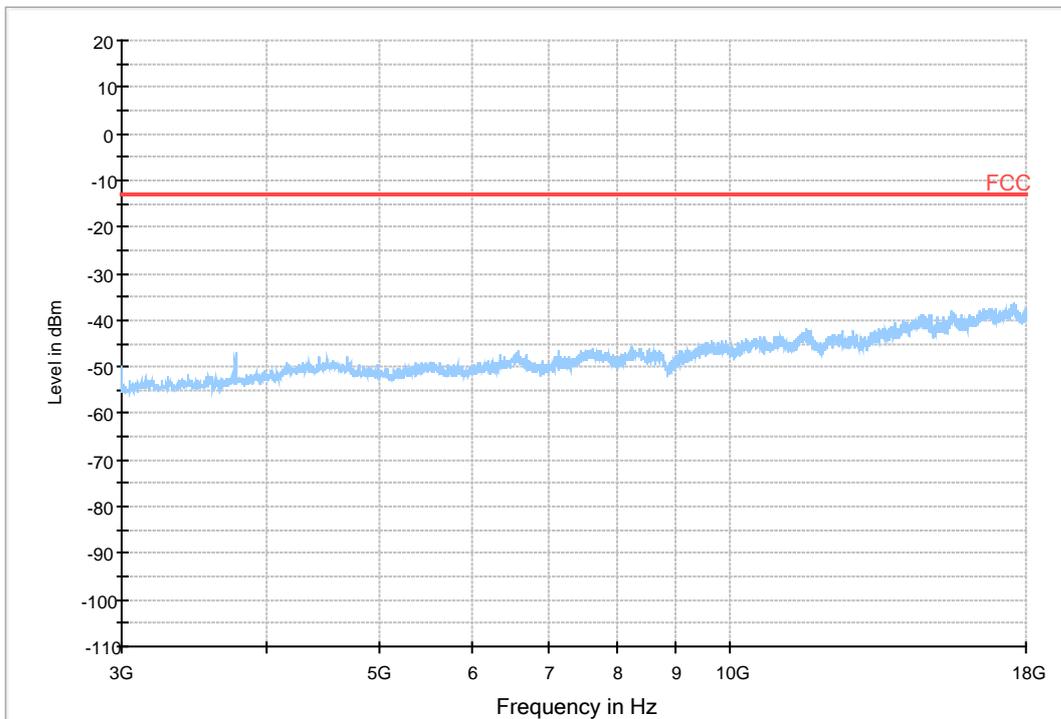
7.2.1.1 Test Mode = UMTS/TM1

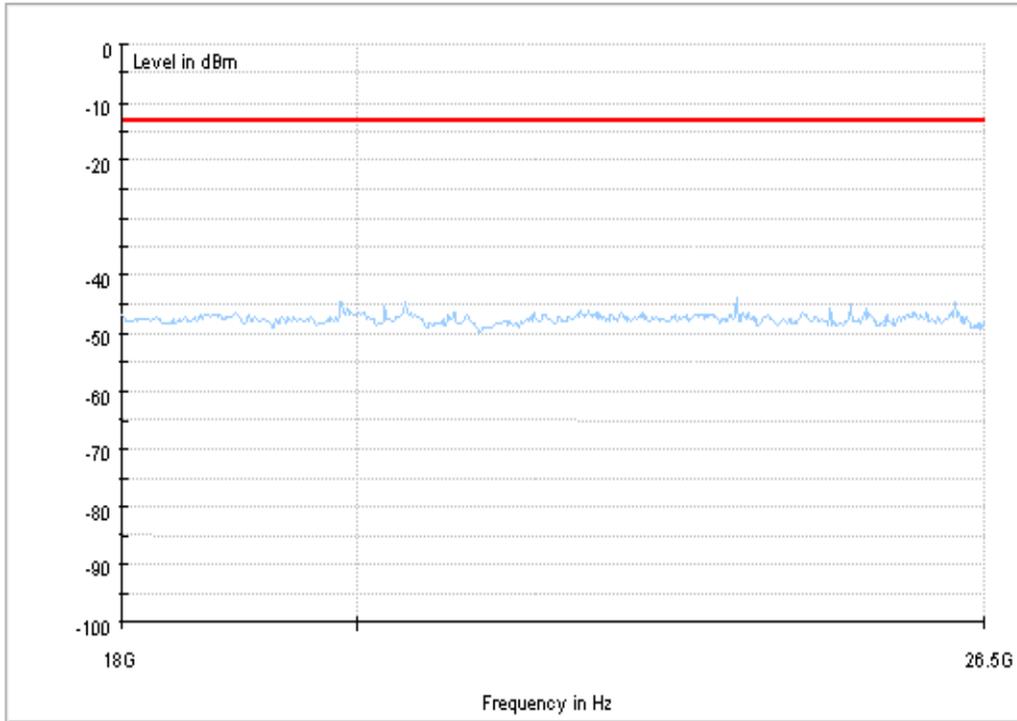


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H

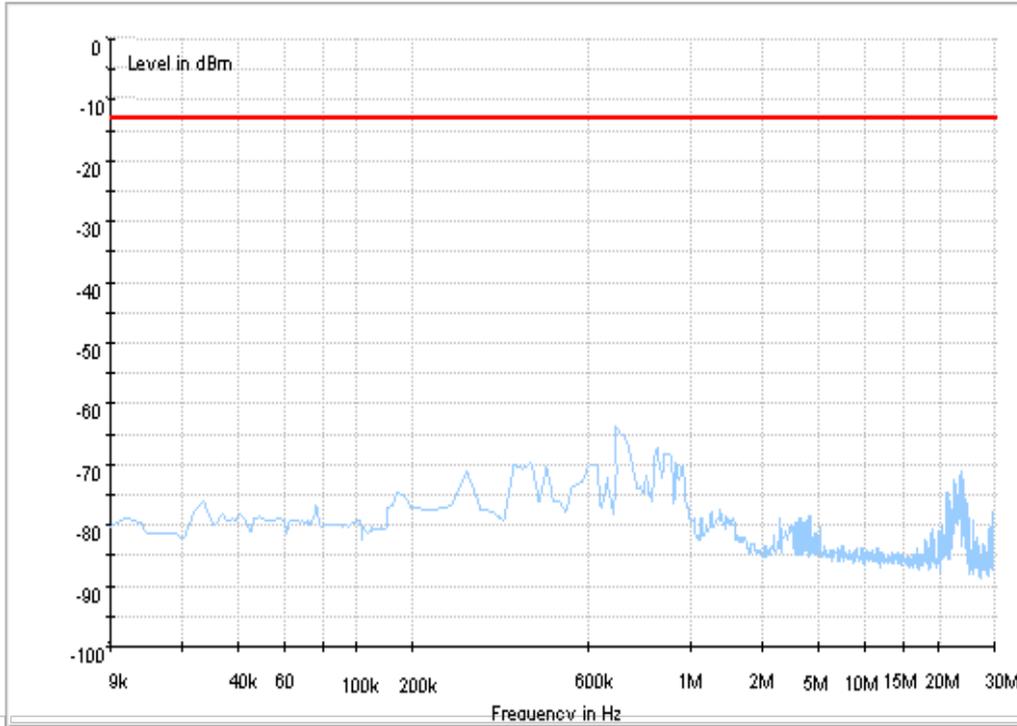




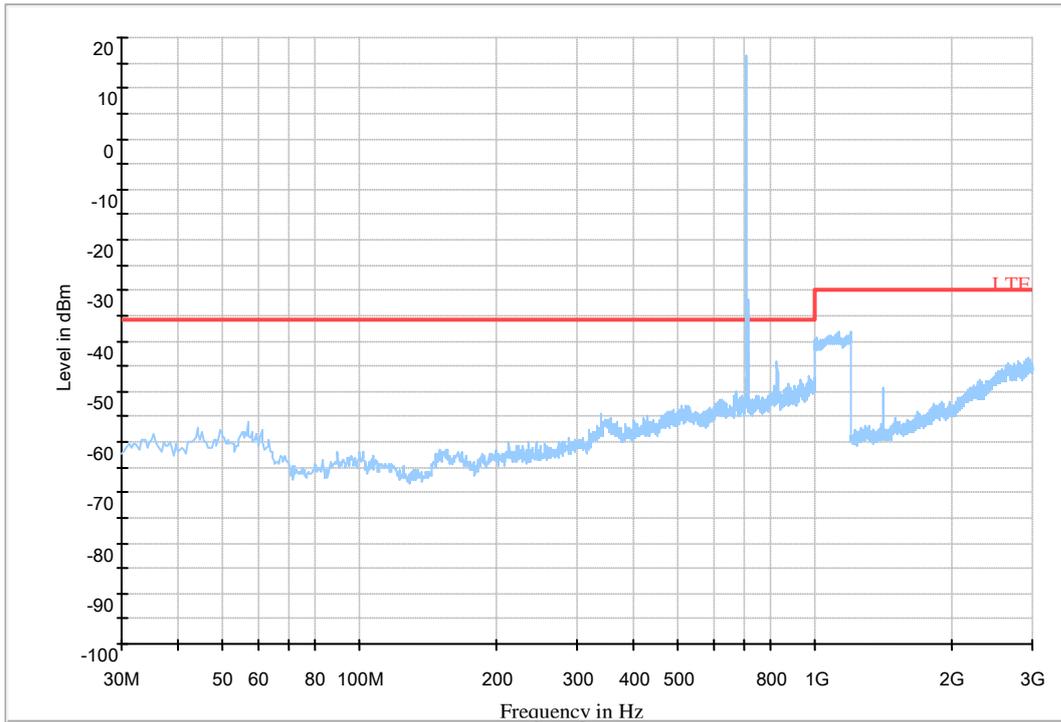
7.3 For LTE

7.3.1 Test Band = BAND17

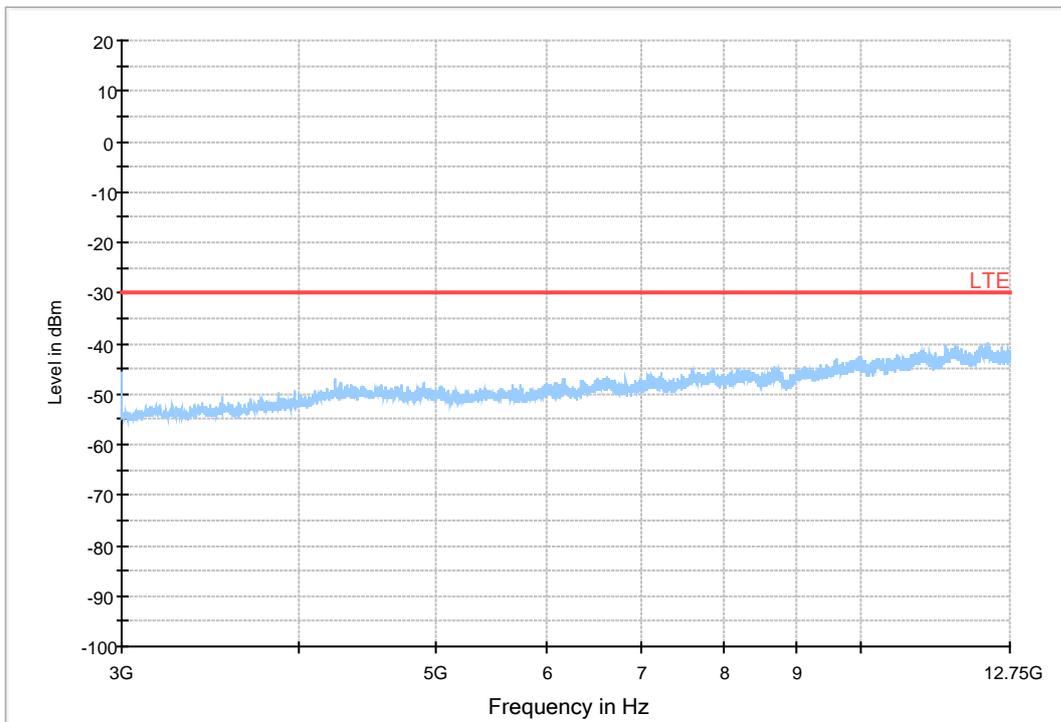
7.3.1.1 Test Bandwidth = 5



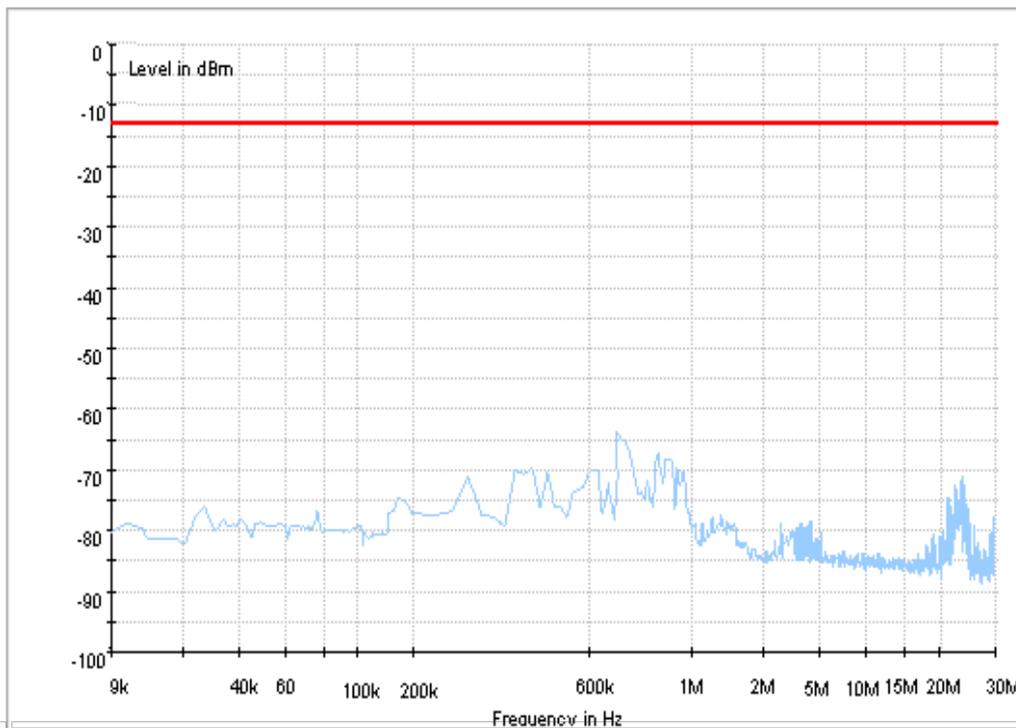
RSE-TX-DIRECTOR BELOW 1G_L



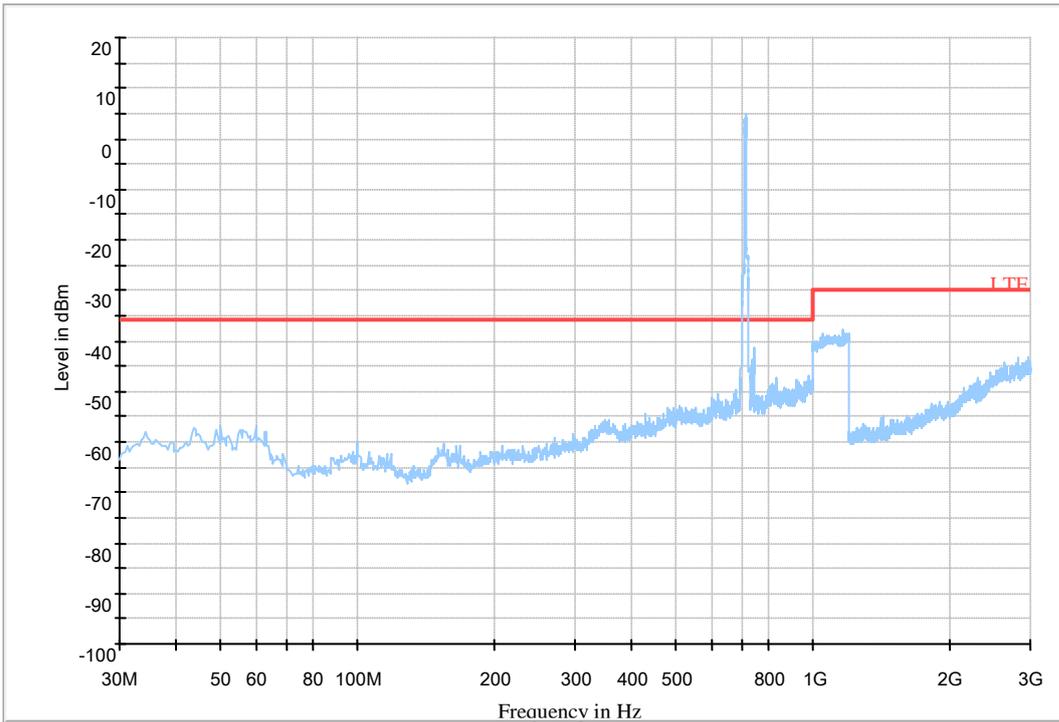
RSE-TX-DIRECTOR BELOW 1G_H



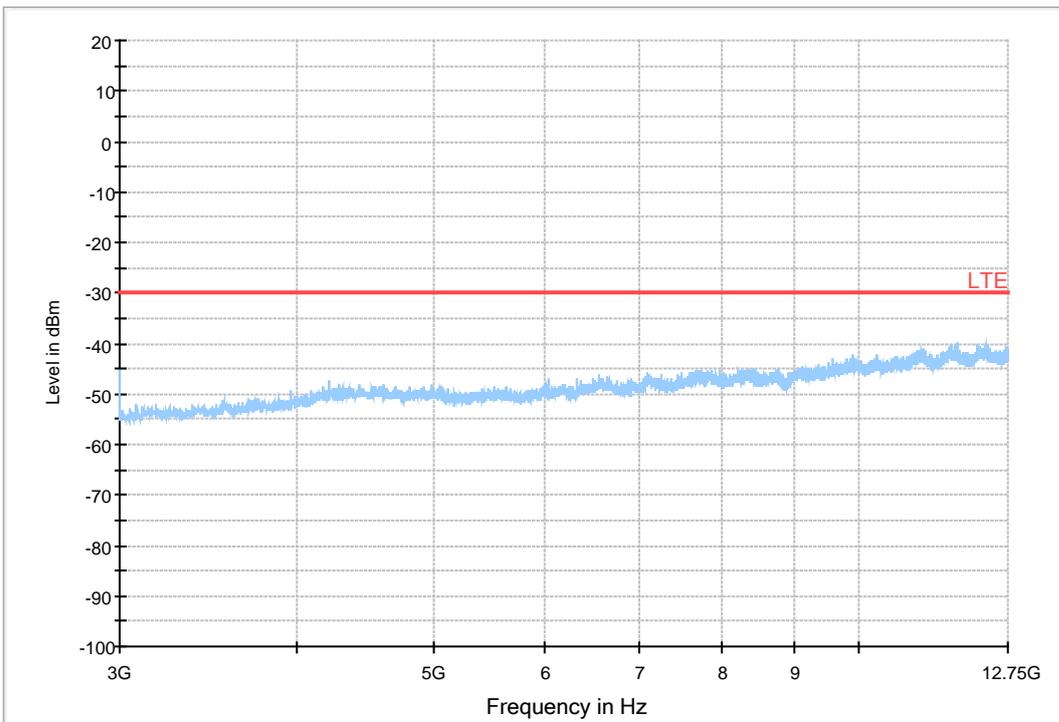
7.3.1.2 Test Bandwidth = 10



RSE-TX-DIRECTOR BELOW 1G_L



RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For UMTS

8.1.1Frequency 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	3.60	0.00436	PASS
				VN	-0.93	-0.00113	PASS
				VH	-3.30	-0.00399	PASS
		MCH	TN	VL	0.08	0.0001	PASS
				VN	-1.59	-0.0019	PASS
				VH	-0.40	-0.00048	PASS
		HCH	TN	VL	-0.24	-0.00028	PASS
				VN	-4.09	-0.00483	PASS
				VH	-1.43	-0.00169	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA1900	UMTS/TM1	LCH	TN	VL	0.50	0.00027	PASS
				VN	3.25	0.00175	PASS
				VH	3.54	0.00191	PASS
		MCH	TN	VL	-4.44	-0.00236	PASS
				VN	-1.31	-0.0007	PASS
				VH	0.40	0.00021	PASS
		HCH	TN	VL	-9.57	-0.00502	PASS
				VN	-6.18	-0.00324	PASS
				VH	-2.40	-0.00126	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
WCDMA850	UMTS/TM1	LCH	VN	-30	1.65	0.002	PASS
				-20	-0.26	-0.00031	PASS
				-10	1.33	0.00161	PASS
				0	1.08	0.00131	PASS
				10	1.01	0.00122	PASS
				20	1.31	0.00159	PASS
				30	-1.43	-0.00173	PASS
				40	1.69	0.00205	PASS
				50	-0.82	-0.00099	PASS
		MCH	VN	-30	-0.38	-0.00045	PASS
				-20	0.2	0.00024	PASS
				-10	0.43	0.00051	PASS
				0	-0.67	-0.0008	PASS
				10	1.33	0.00159	PASS
				20	-1.33	-0.00159	PASS
				30	-0.26	-0.00031	PASS
				40	0.81	0.00097	PASS
				50	0.84	0.001	PASS
		HCH	VN	-30	-3.04	-0.00359	PASS
				-20	-4.32	-0.0051	PASS
				-10	-3.63	-0.00429	PASS
				0	-3.77	-0.00445	PASS
				10	-1.72	-0.00203	PASS
				20	0.81	0.00096	PASS
				30	-1.71	-0.00202	PASS
				40	-0.61	-0.00072	PASS
				50	-0.99	-0.00117	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.25	0.00067	PASS
				-20	3.59	0.00194	PASS
				-10	7.2	0.00389	PASS
				0	6.15	0.00332	PASS
				10	4.33	0.00234	PASS
				20	2.47	0.00133	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				30	6.64	0.00358	PASS		
				40	4.12	0.00222	PASS		
				50	3.2	0.00173	PASS		
		MCH	VN			-30	-0.72	-0.00038	PASS
						-20	-0.76	-0.0004	PASS
						-10	2.41	0.00128	PASS
						0	0.99	0.00053	PASS
						10	0.89	0.00047	PASS
						20	1.74	0.00093	PASS
						30	0.4	0.00021	PASS
						40	-1.95	-0.00104	PASS
						50	1.59	0.00085	PASS
						HCH	VN		
		-20	-9.02	-0.00473	PASS				
		-10	-7.22	-0.00378	PASS				
		0	-2.49	-0.00131	PASS				
		10	-3.65	-0.00191	PASS				
		20	-6.81	-0.00357	PASS				
		30	-3.92	-0.00205	PASS				
		40	-4.96	-0.0026	PASS				
						50	-6.77	-0.00355	PASS

8.3 For LTE

8.3.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17	LTE/TM1	5	LCH	TN	VL	-4.03	-0.0057	PASS
					VN	-0.64	-0.00091	PASS
					VH	-1.93	-0.00273	PASS
			MCH	TN	VL	-9.31	-0.01311	PASS
					VN	-7.12	-0.01003	PASS
					VH	-5.68	-0.008	PASS
		HCH	TN	VL	-0.84	-0.00118	PASS	
				VN	-4.15	-0.00582	PASS	
				VH	0.14	0.0002	PASS	
		10	LCH	TN	VL	-5.59	-0.00788	PASS
					VN	-1.92	-0.00271	PASS
					VH	-4.06	-0.00573	PASS
			MCH	TN	VL	-1.46	-0.00206	PASS
					VN	-3.42	-0.00482	PASS
					VH	0.54	0.00076	PASS
	HCH		TN	VL	-10.91	-0.01534	PASS	
				VN	-13.15	-0.0185	PASS	
				VH	-12.92	-0.01817	PASS	
	LTE/TM2	5	LCH	TN	VL	-3.38	-0.00478	PASS
					VN	-0.7	-0.00099	PASS
					VH	-2.47	-0.0035	PASS
			MCH	TN	VL	-4.52	-0.00637	PASS
					VN	-2.99	-0.00421	PASS
					VH	-5.66	-0.00797	PASS
			HCH	TN	VL	-2.8	-0.00392	PASS
					VN	-0.64	-0.0009	PASS
					VH	-0.74	-0.00104	PASS
		10	LCH	TN	VL	1.39	0.00196	PASS
					VN	-3.2	-0.00451	PASS
					VH	-1.3	-0.00183	PASS
MCH			TN	VL	-1.62	-0.00228	PASS	
				VN	0.33	0.00046	PASS	
				VH	2.83	0.00399	PASS	
HCH	TN	VL	-4.03	-0.00567	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	1.39	0.00195	PASS
					VH	-3.36	-0.00473	PASS

8.3.2 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17	LTE/TM1	5	LCH	VN	-30	-3.15	-0.00446	PASS
					-20	-5.29	-0.00749	PASS
					-10	-3.42	-0.00484	PASS
					0	-4.15	-0.00587	PASS
					10	0.06	0.00008	PASS
					20	-1.89	-0.00268	PASS
					30	-1.09	-0.00154	PASS
					40	-3.95	-0.00559	PASS
			50	-5.52	-0.00781	PASS		
			MCH	VN	-30	-6.94	-0.00977	PASS
					-20	-4.16	-0.00586	PASS
					-10	-5.85	-0.00824	PASS
					0	-11.96	-0.01685	PASS
					10	-9.17	-0.01292	PASS
					20	-4.94	-0.00696	PASS
					30	-5.64	-0.00794	PASS
					40	-2.42	-0.00341	PASS
			50	-4.25	-0.00599	PASS		
			HCH	VN	-30	-2.7	-0.00378	PASS
					-20	-4.76	-0.00667	PASS
					-10	-3.36	-0.00471	PASS
					0	-4.18	-0.00586	PASS
					10	-3.58	-0.00502	PASS
					20	-2.36	-0.00331	PASS
		30			-3.03	-0.00425	PASS	
		40			-4.51	-0.00632	PASS	
		50	-5.29	-0.00741	PASS			
		10	LCH	VN	-30	-4.01	-0.00566	PASS
					-20	-4.82	-0.0068	PASS
					-10	-4.61	-0.0065	PASS
					0	-4.66	-0.00657	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					10	-4.59	-0.00647	PASS	
					20	-6.48	-0.00914	PASS	
					30	-6.04	-0.00852	PASS	
					40	-4.53	-0.00639	PASS	
					50	-6.01	-0.00848	PASS	
			MCH	VN	-30	5.11	0.0072	PASS	
					-20	4.48	0.00631	PASS	
					-10	1.69	0.00238	PASS	
					0	-1.89	-0.00266	PASS	
					10	-1.47	-0.00207	PASS	
					20	2.43	0.00342	PASS	
					30	-0.29	-0.00041	PASS	
					40	0.43	0.00061	PASS	
					50	-0.4	-0.00056	PASS	
			HCH	VN	-30	-7.97	-0.01121	PASS	
					-20	-14.49	-0.02038	PASS	
					-10	-13.49	-0.01897	PASS	
					0	-12.75	-0.01793	PASS	
					10	-10.17	-0.0143	PASS	
					20	-10.96	-0.01541	PASS	
					30	-9.46	-0.01331	PASS	
					40	-7.81	-0.01098	PASS	
			50	-10.99	-0.01546	PASS			
			LTE/TM2	5		LCH	VN	-30	-3.13
	-20	-1.47						-0.00208	PASS
	-10	-0.31						-0.00044	PASS
	0	0.79						0.00112	PASS
	10	-5.38						-0.00762	PASS
	20	-3.06						-0.00433	PASS
	30	-3.59						-0.00508	PASS
	40	-3.2						-0.00453	PASS
	50	-4.29				-0.00607	PASS		
	MCH	VN				-30	-1.56	-0.0022	PASS
-20						-7.05	-0.00993	PASS	
-10						-4.71	-0.00663	PASS	
0						-4.48	-0.00631	PASS	
10						-2.26	-0.00318	PASS	
20			-4.62	-0.00651	PASS				
30	-3.48	-0.0049	PASS						

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	-3.2	-0.00451	PASS	
					50	-1.43	-0.00201	PASS	
			HCH	VN	-30	-3.43	-0.00481	PASS	
					-20	-3.98	-0.00558	PASS	
					-10	-1.79	-0.00251	PASS	
					0	0.92	0.00129	PASS	
					10	-0.67	-0.00094	PASS	
					20	0.54	0.00076	PASS	
					30	-1.99	-0.00279	PASS	
					40	-1.06	-0.00149	PASS	
					50	0.13	0.00018	PASS	
					10	LCH	VN	-30	2.22
			-20	1.73				0.00244	PASS
			-10	-0.86				-0.00121	PASS
			0	1.63				0.0023	PASS
		10	0.77	0.00109				PASS	
		20	1.57	0.00221				PASS	
		30	-0.33	-0.00047				PASS	
		40	-0.43	-0.00061				PASS	
		MCH	VN	-30		-4.08	-0.00575	PASS	
				-20		-3.28	-0.00462	PASS	
				-10		-5.41	-0.00762	PASS	
				0		-4.36	-0.00614	PASS	
				10		-8.11	-0.01142	PASS	
				20		-8.7	-0.01225	PASS	
				30		-7.01	-0.00987	PASS	
		HCH	VN	-30	-0.11	-0.00015	PASS		
				-20	1.76	0.00248	PASS		
				-10	-4.39	-0.00617	PASS		
				0	-2.62	-0.00368	PASS		
				10	-2.06	-0.0029	PASS		
				20	-2.72	-0.00383	PASS		
				30	0.01	0.00001	PASS		
				40	-1.06	-0.00149	PASS		
		50	-1.53	-0.00215	PASS				



END