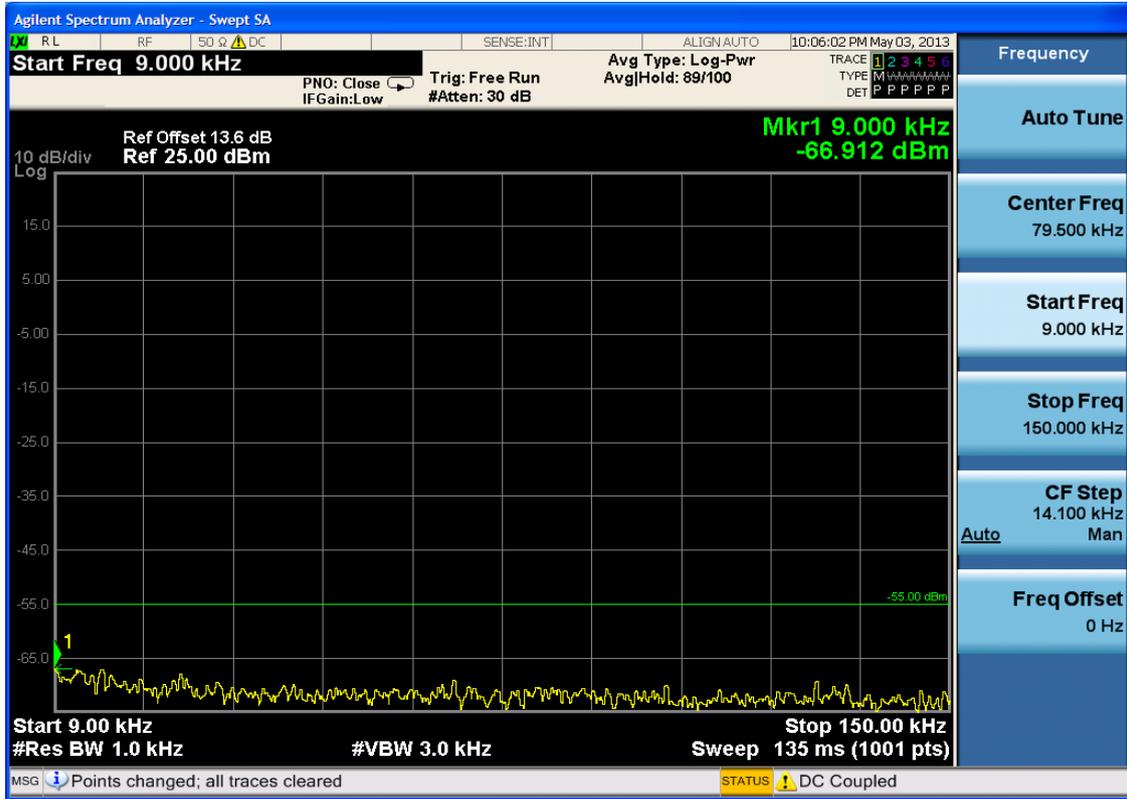
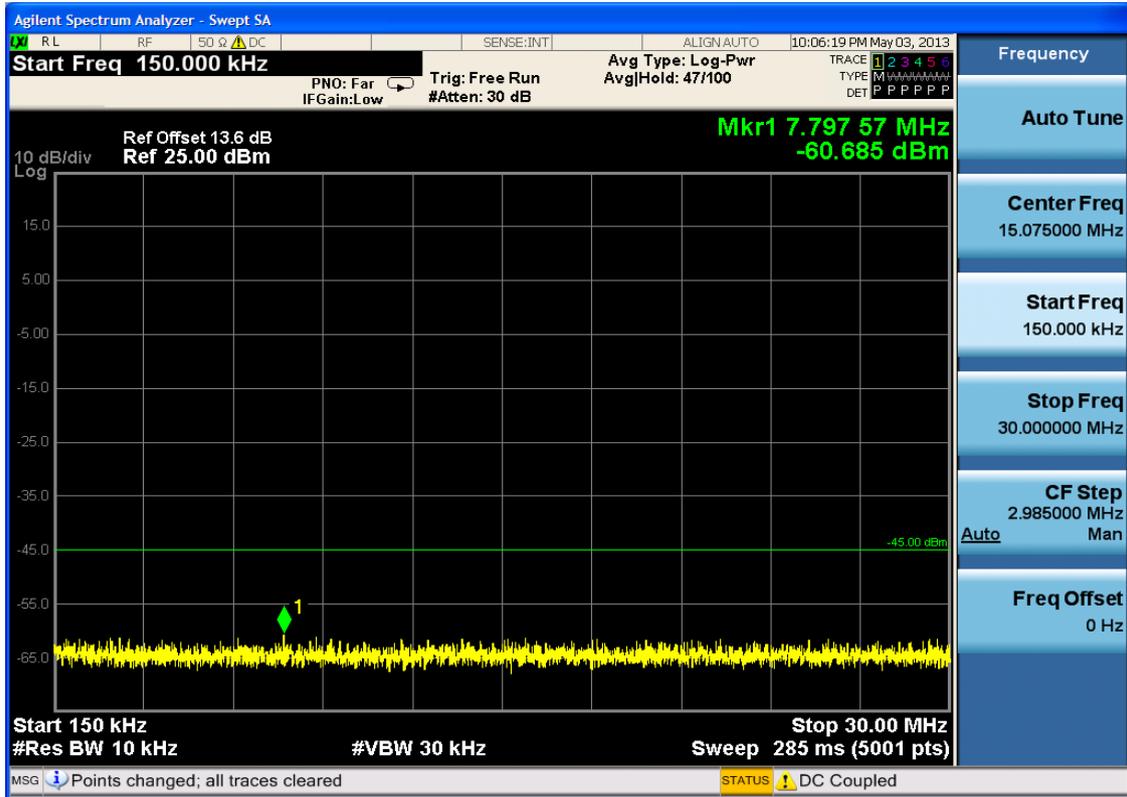


6.3.3.1.3.2 Test Channel = MCH

6.3.3.1.3.2.1 Test RB = RB1#0

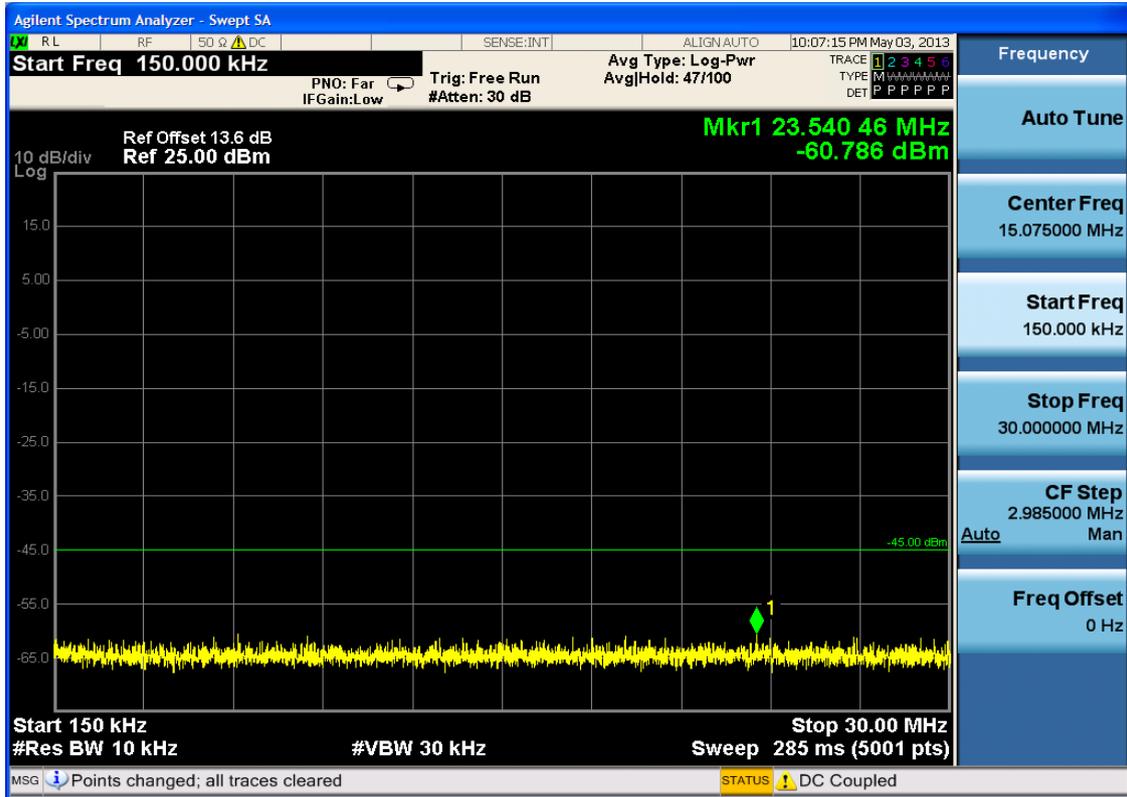


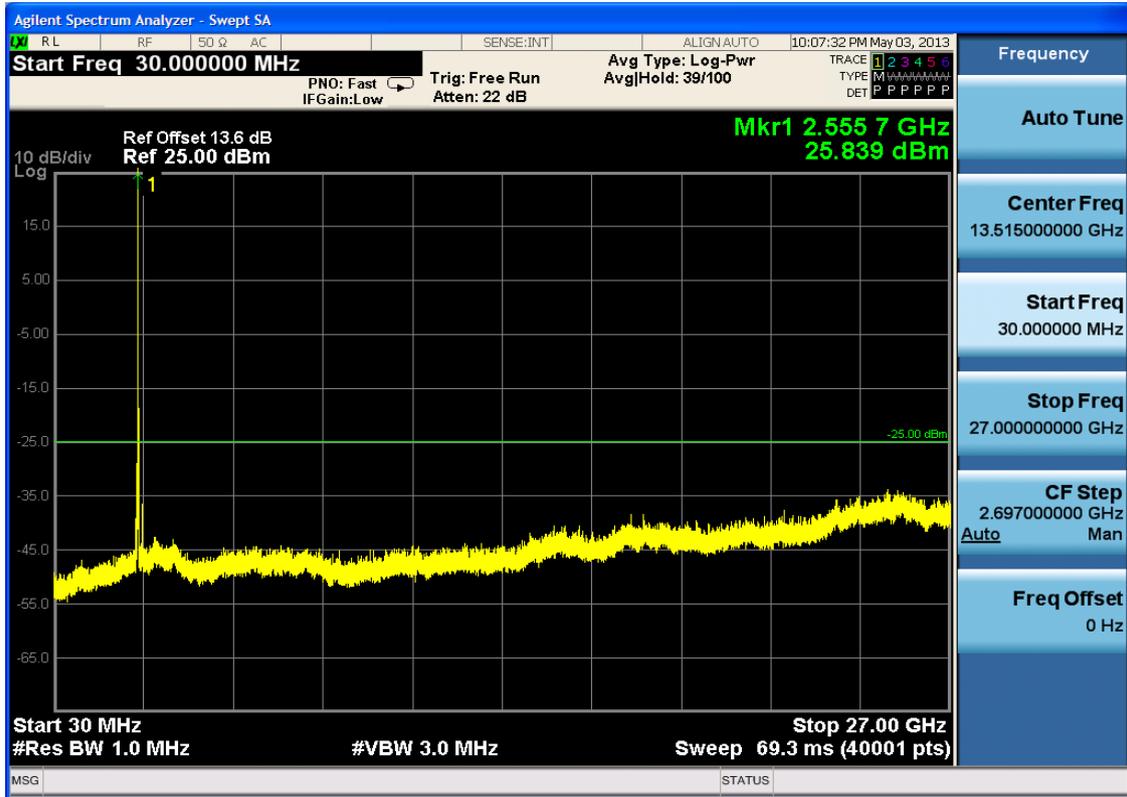


6.3.3.1.3.3 Test Channel = HCH

6.3.3.1.3.3.1 Test RB = RB1#0







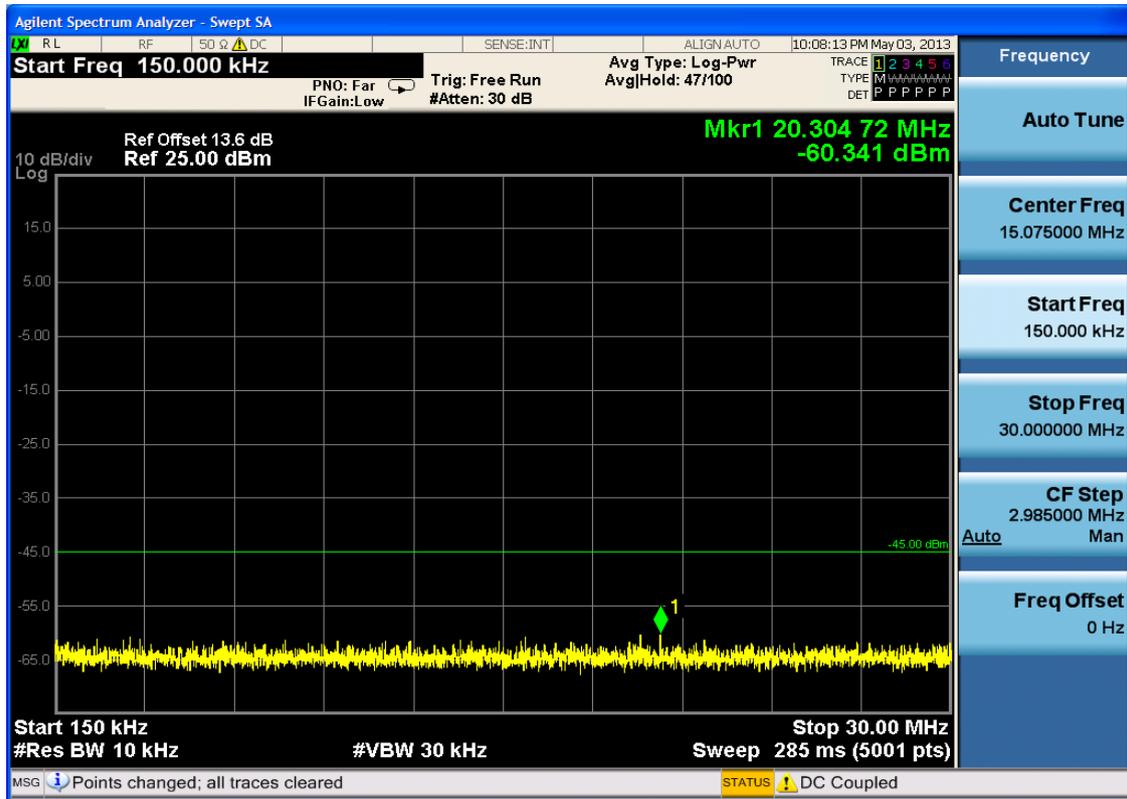


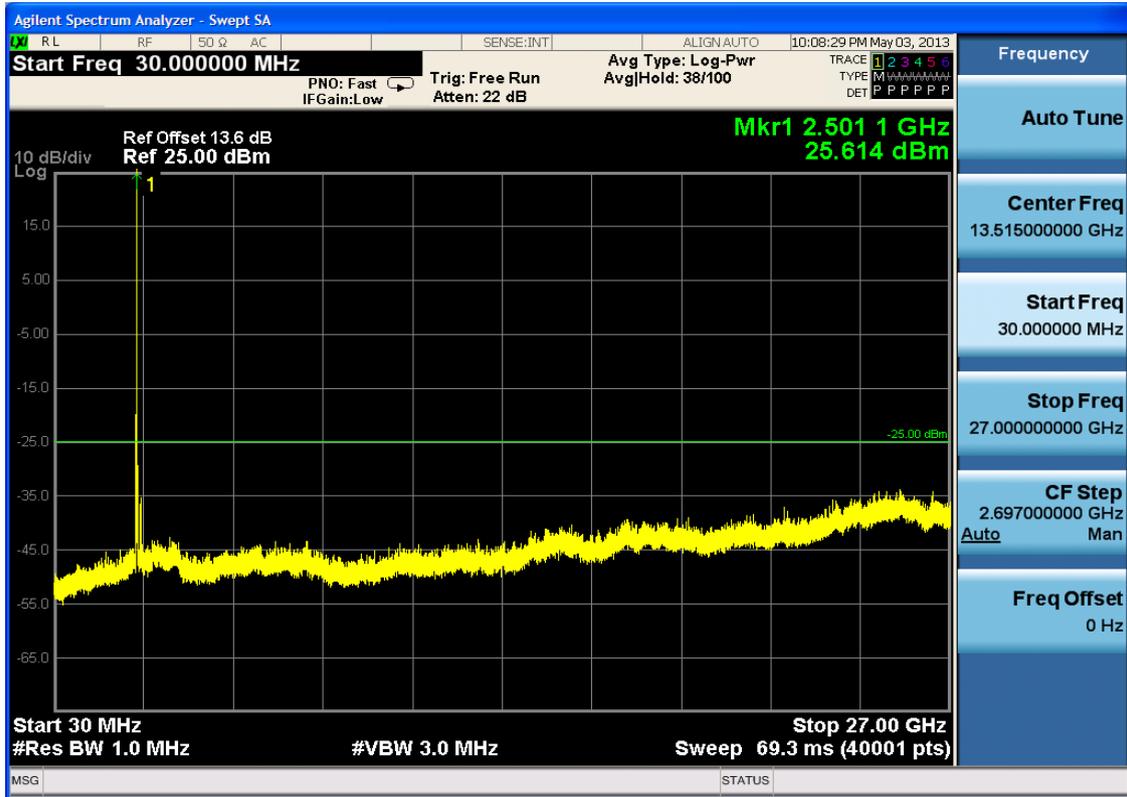
6.3.3.1.4 Test Bandwidth = 20

6.3.3.1.4.1 Test Channel = LCH

6.3.3.1.4.1.1 Test RB = RB1#0

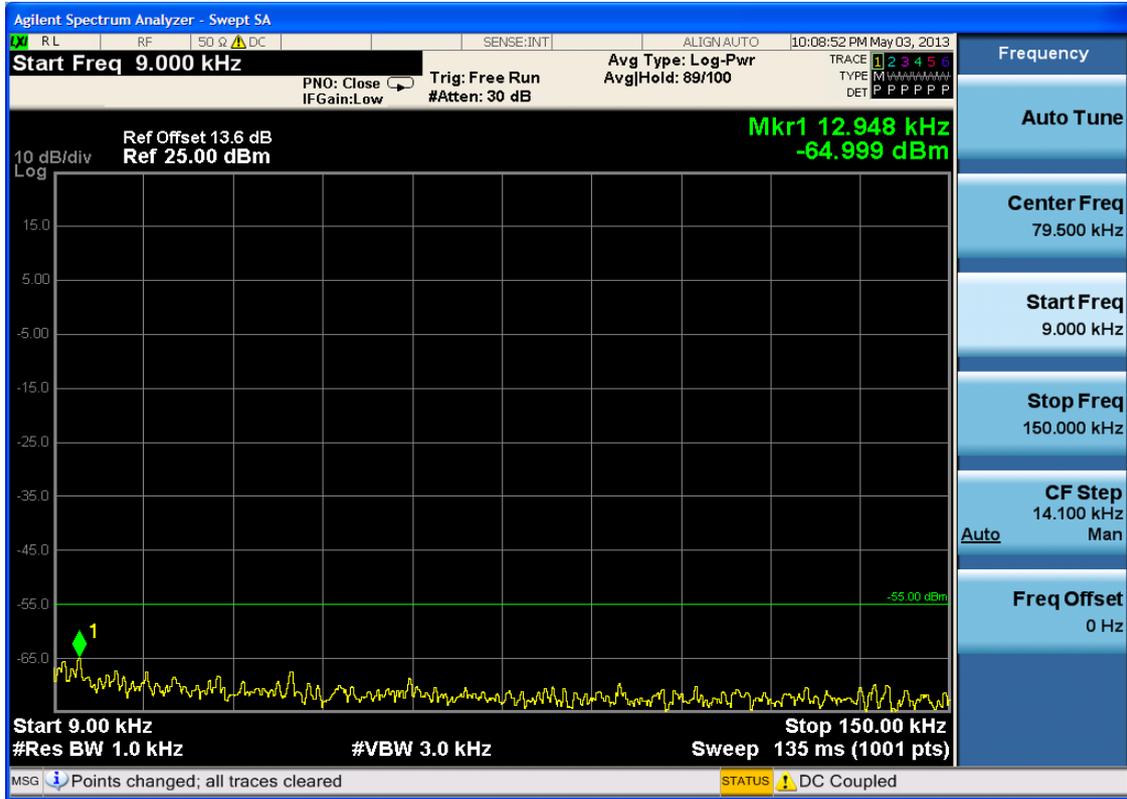


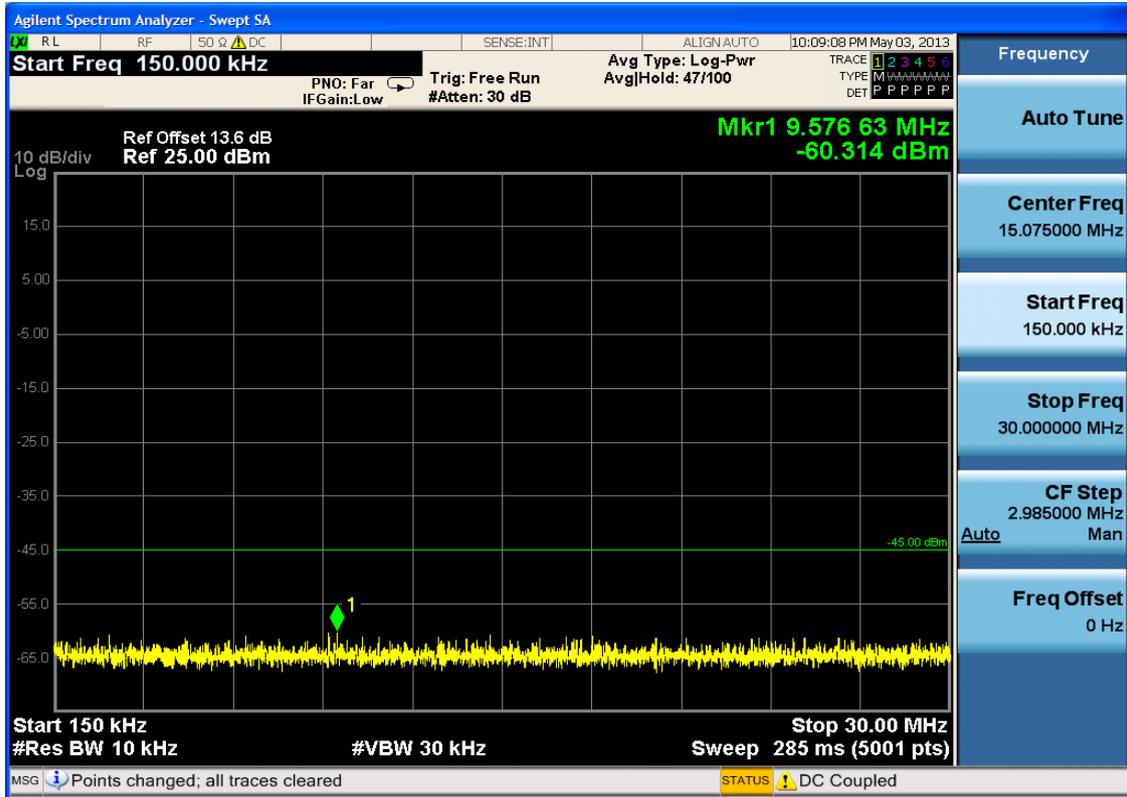


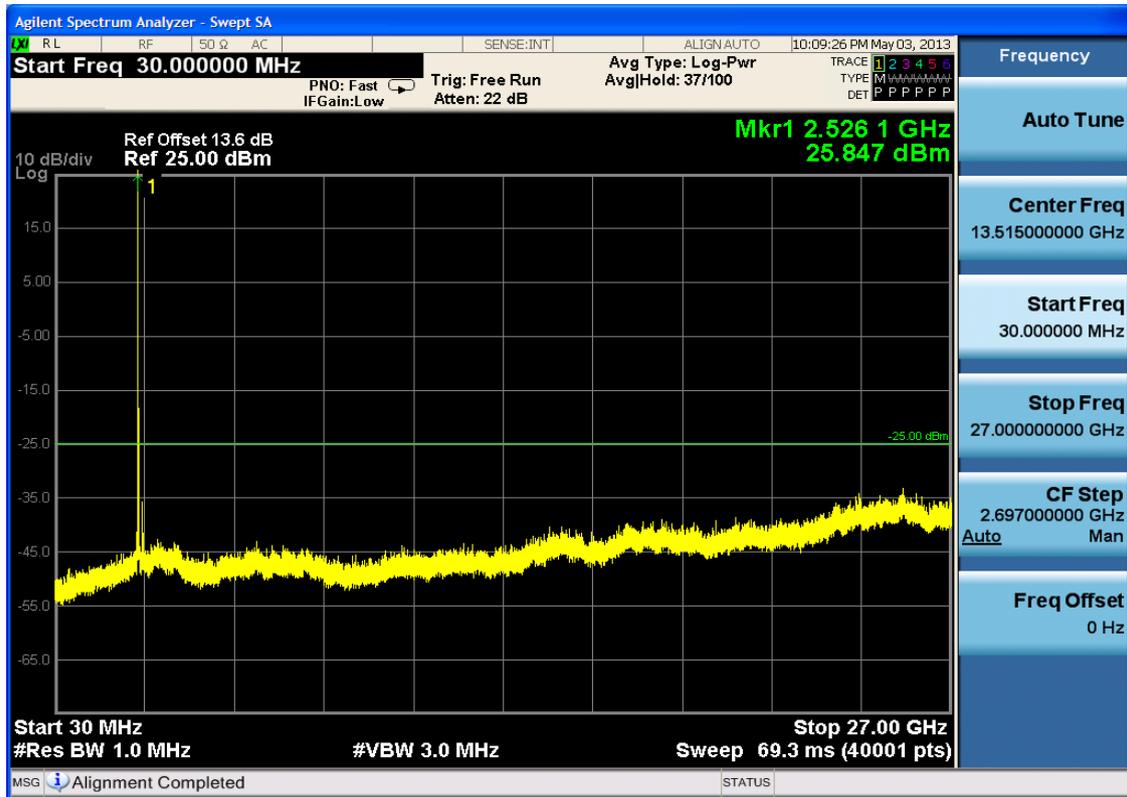


6.3.3.1.4.2 Test Channel = MCH

6.3.3.1.4.2.1 Test RB = RB1#0



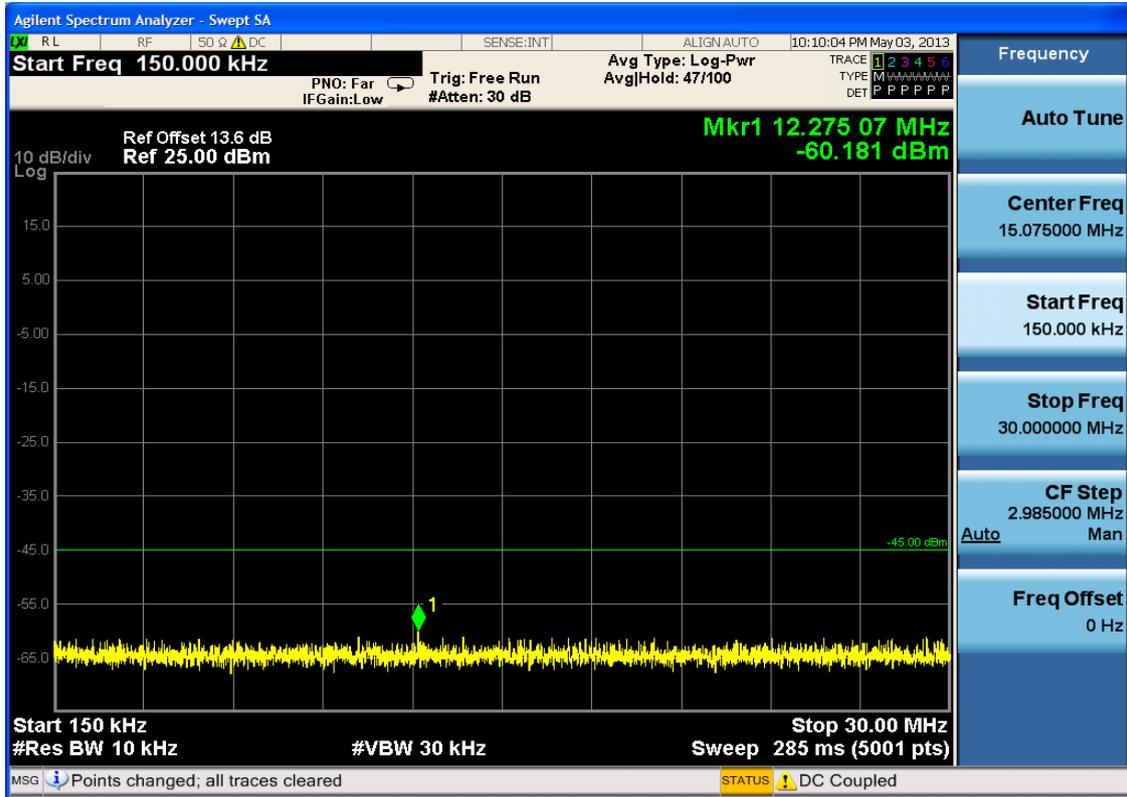


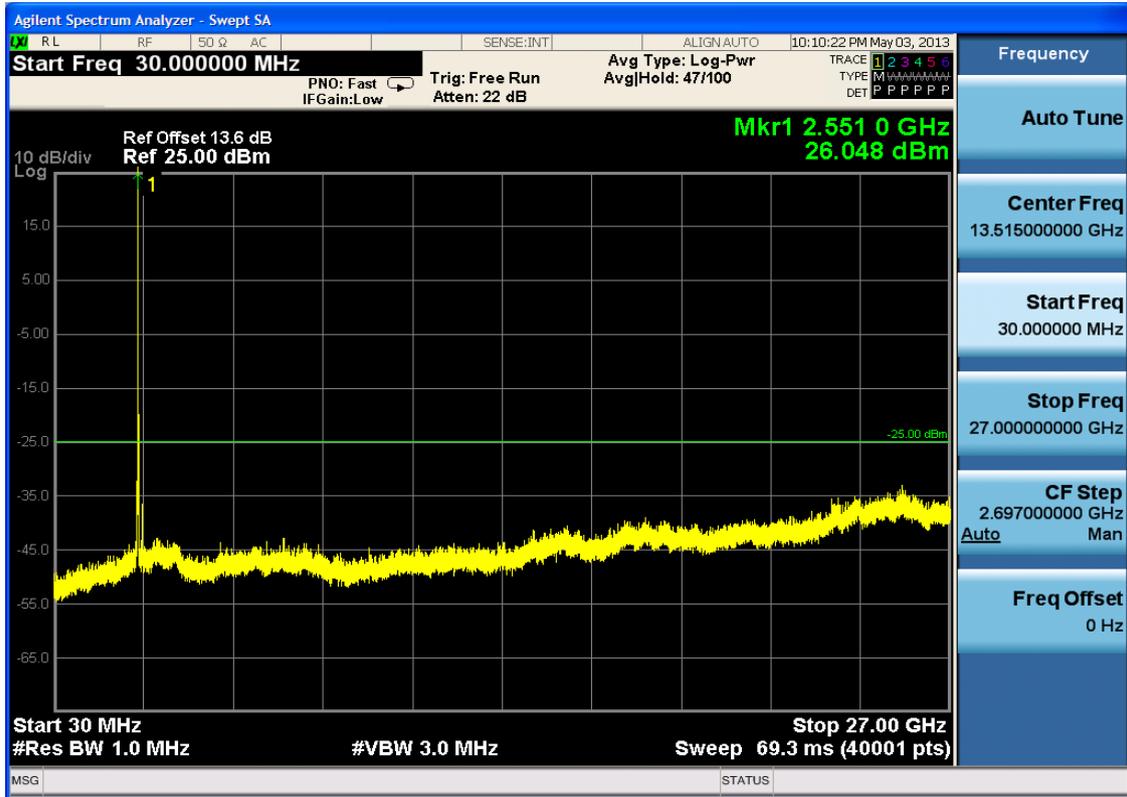


6.3.3.1.4.3 Test Channel = HCH

6.3.3.1.4.3.1 Test RB = RB1#0









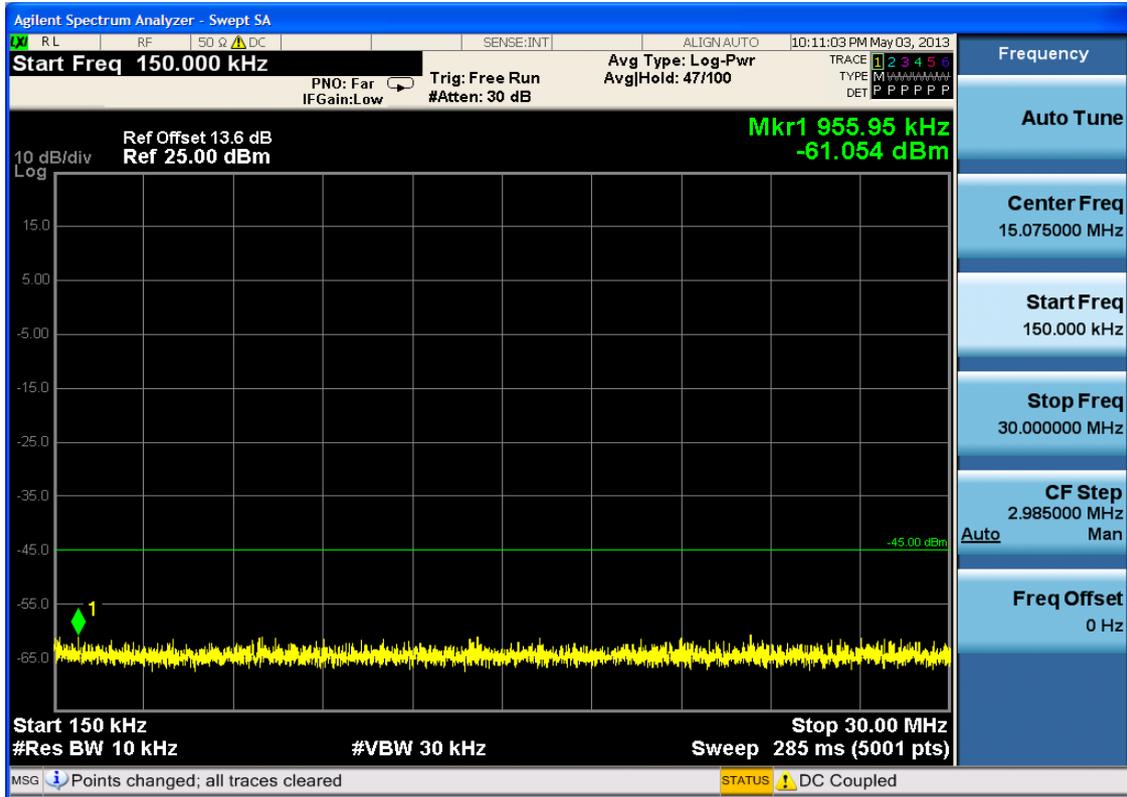
6.3.3.2 Test Mode = LTE/TM2

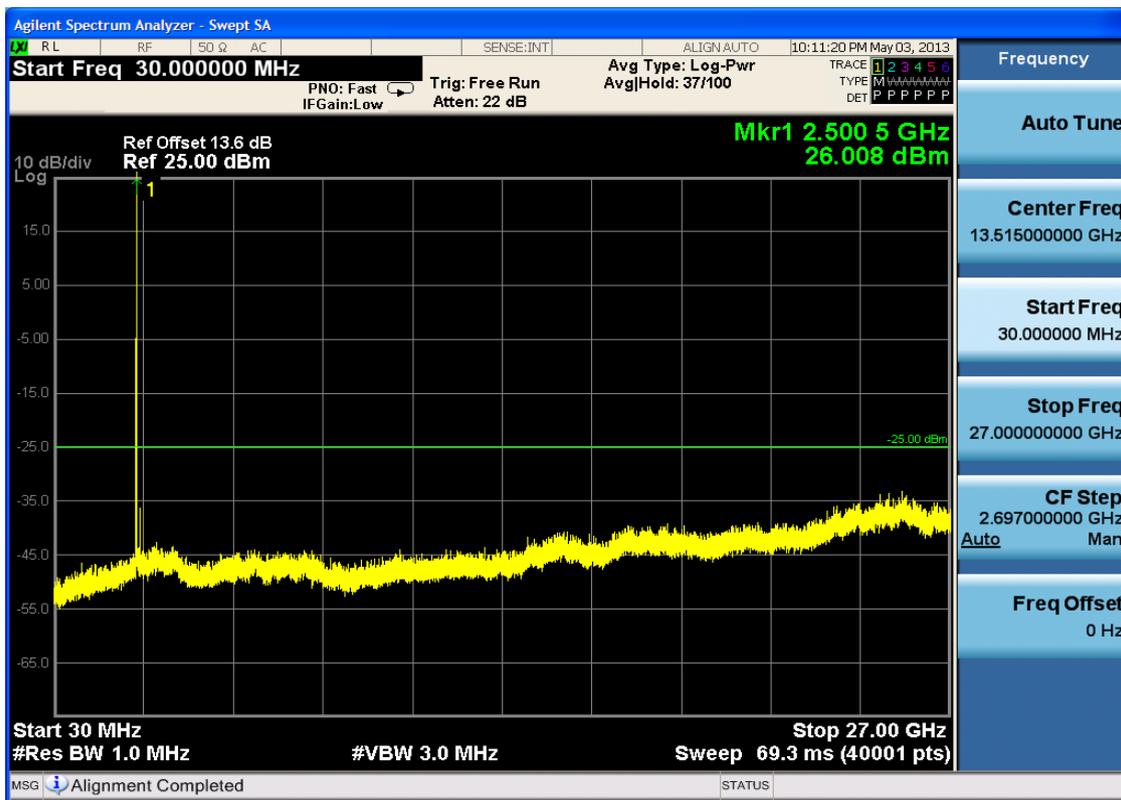
6.3.3.2.1 Test Bandwidth = 5

6.3.3.2.1.1 Test Channel = LCH

6.3.3.2.1.1.1 Test RB = RB1#0

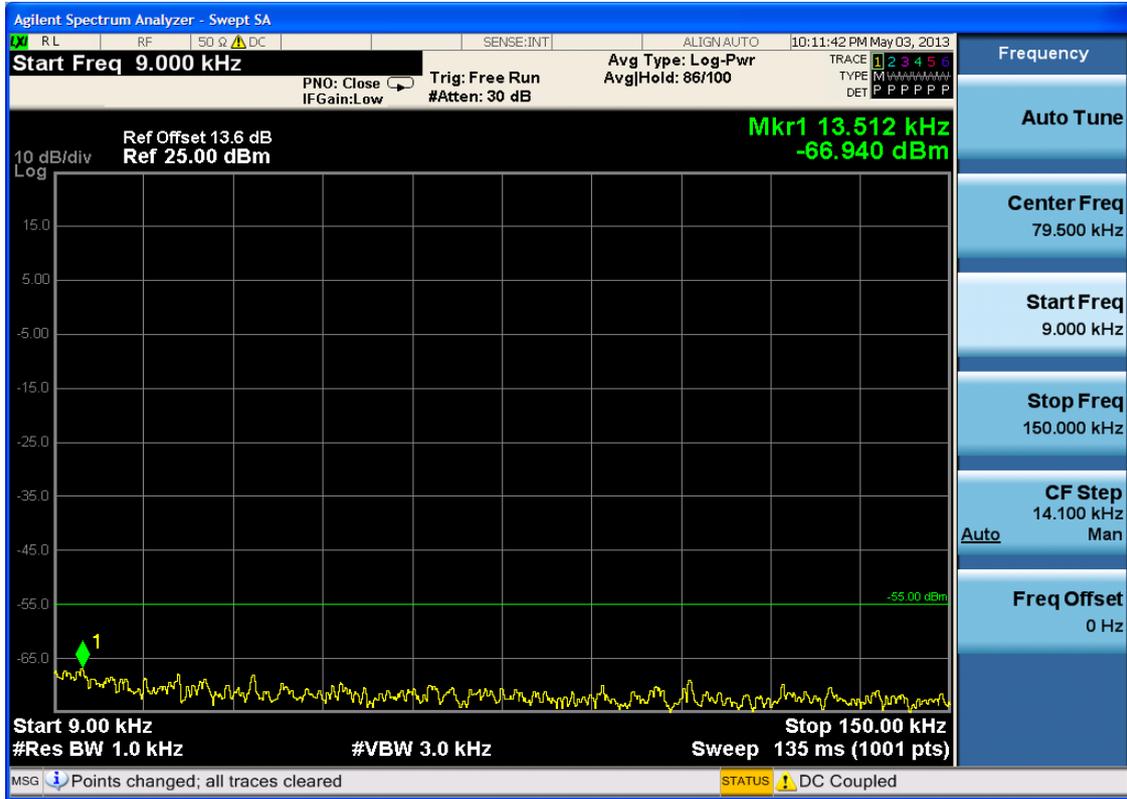


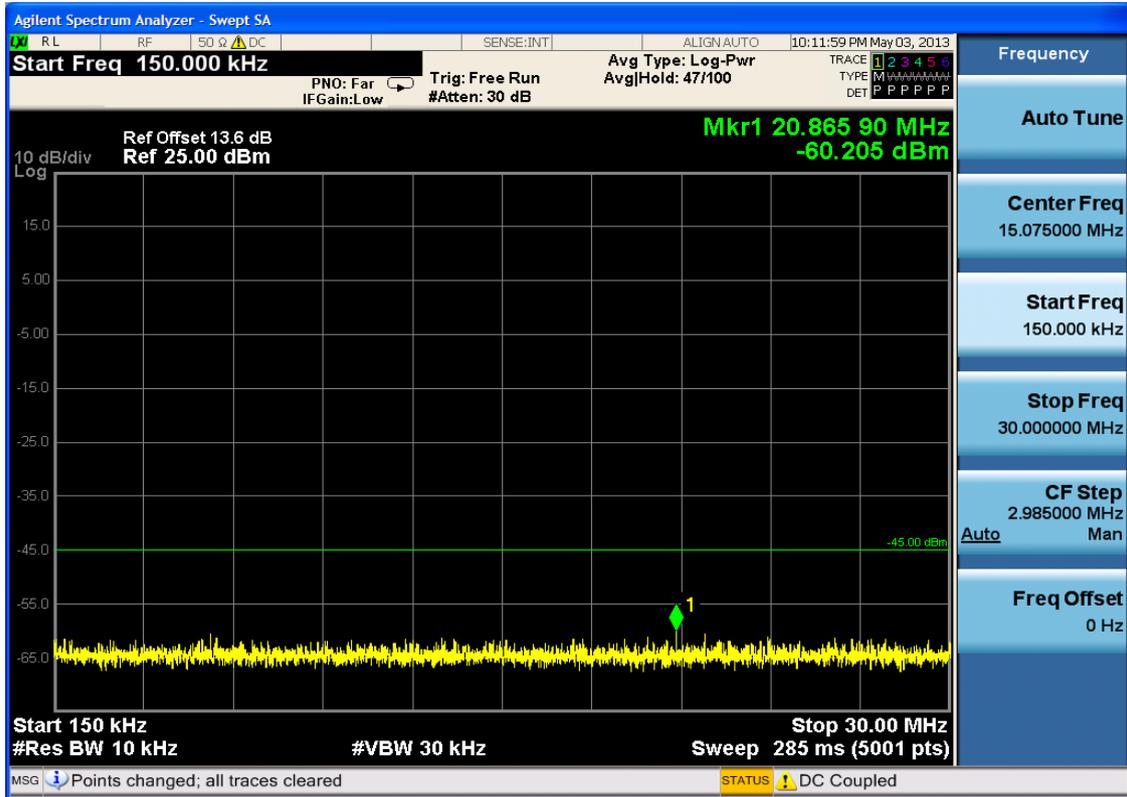


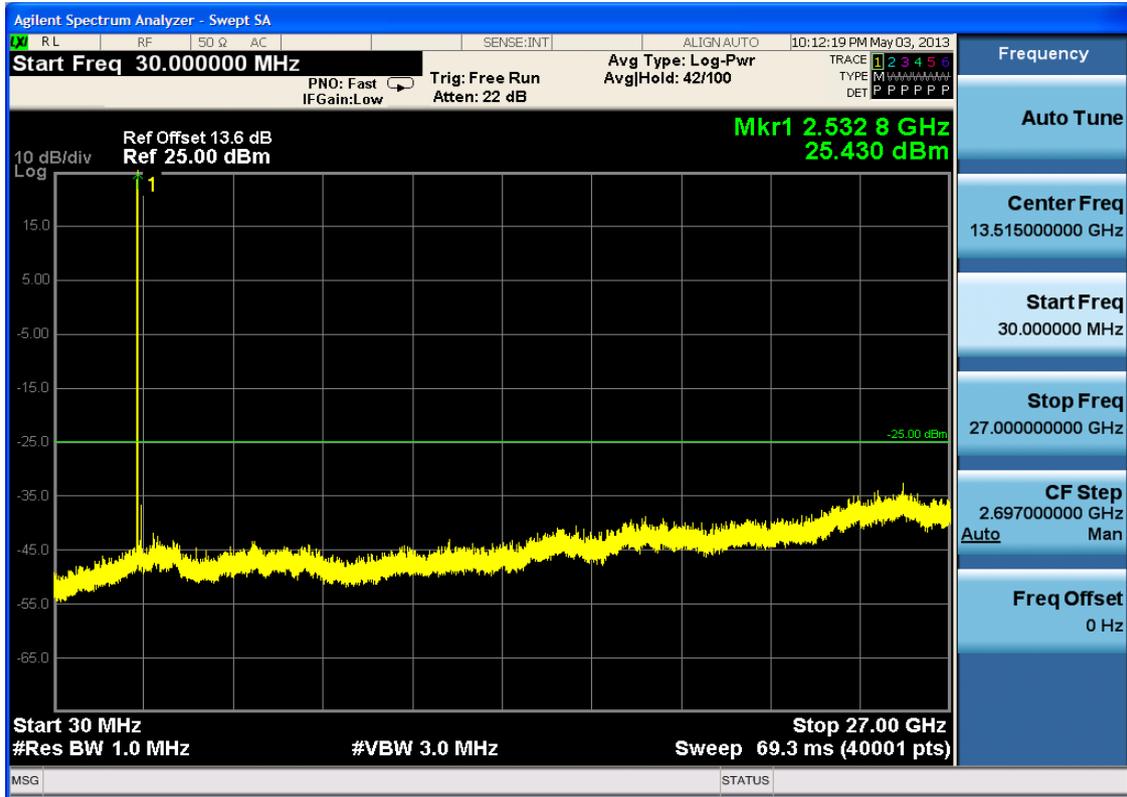


6.3.3.2.1.2 Test Channel = MCH

6.3.3.2.1.2.1 Test RB = RB1#0



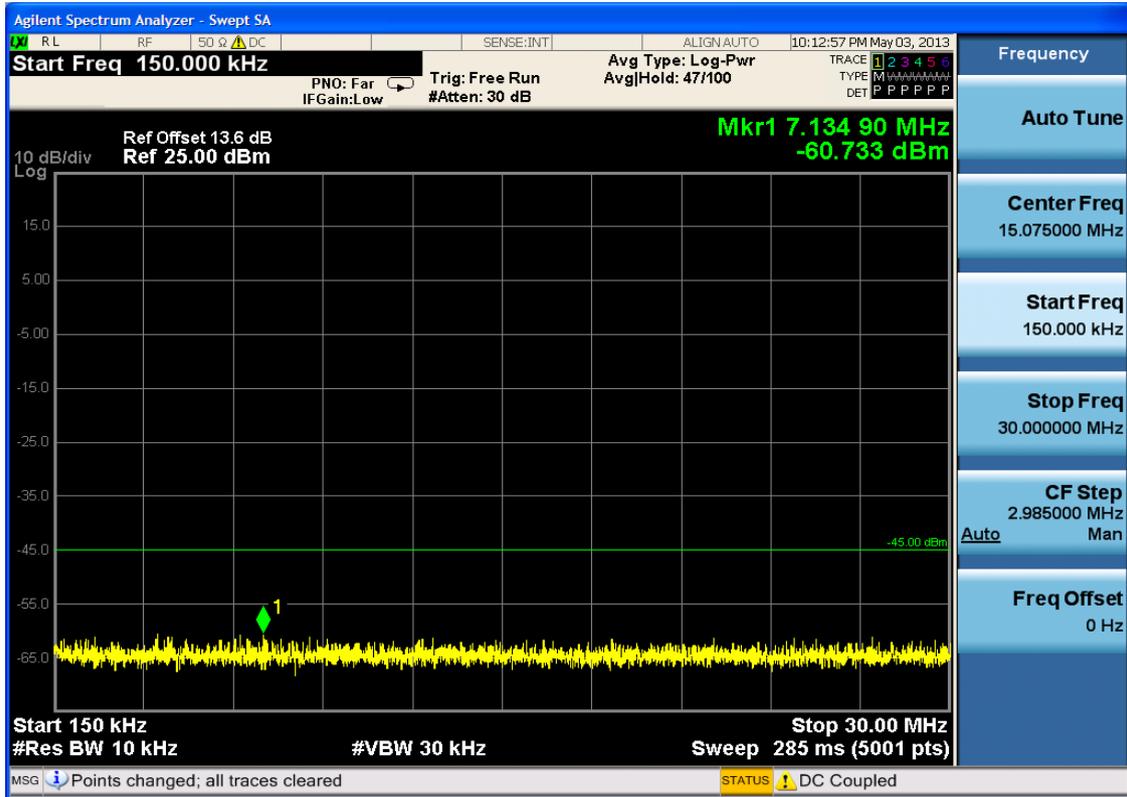




6.3.3.2.1.3 Test Channel = HCH

6.3.3.2.1.3.1 Test RB = RB1#0





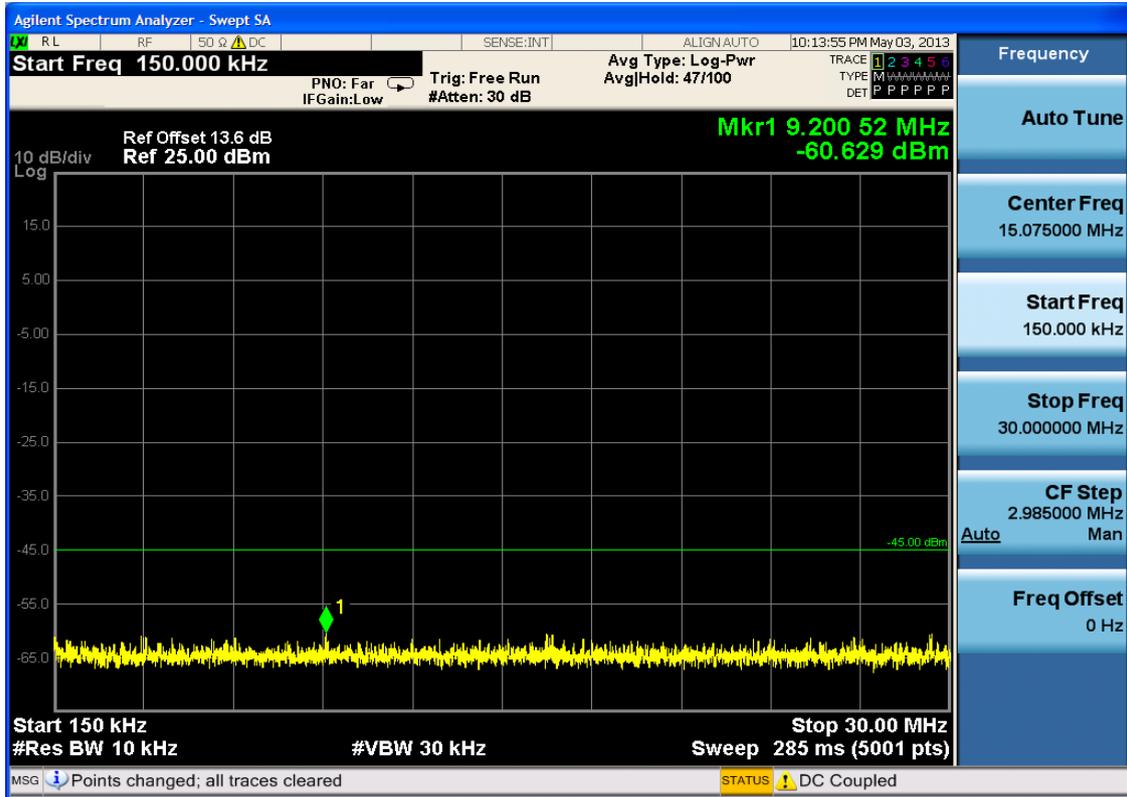


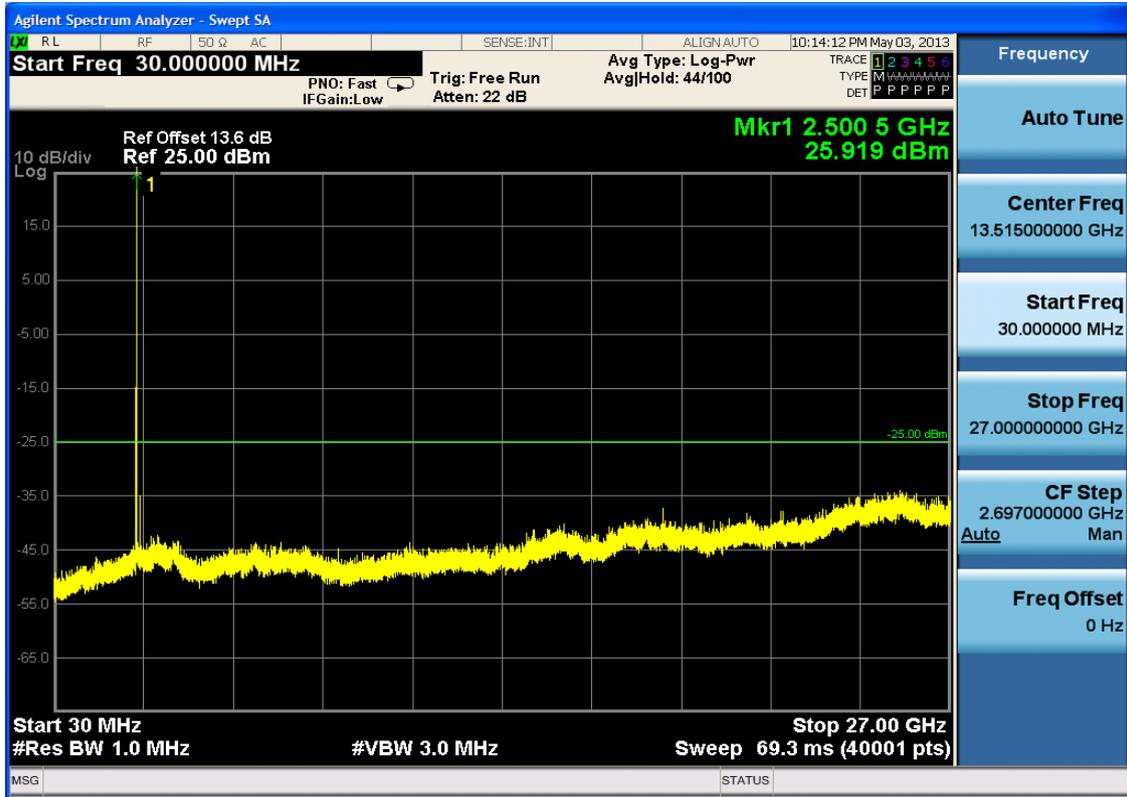
6.3.3.2.2 Test Bandwidth = 10

6.3.3.2.2.1 Test Channel = LCH

6.3.3.2.2.1.1 Test RB = RB1#0

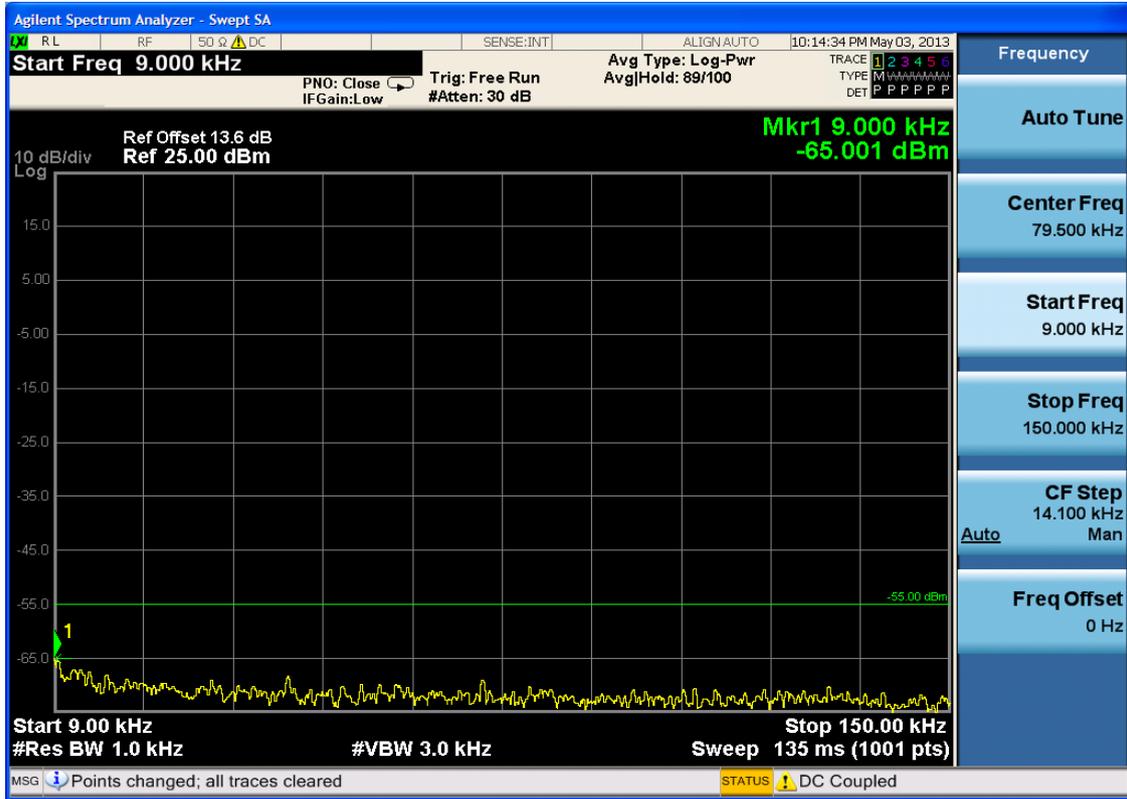


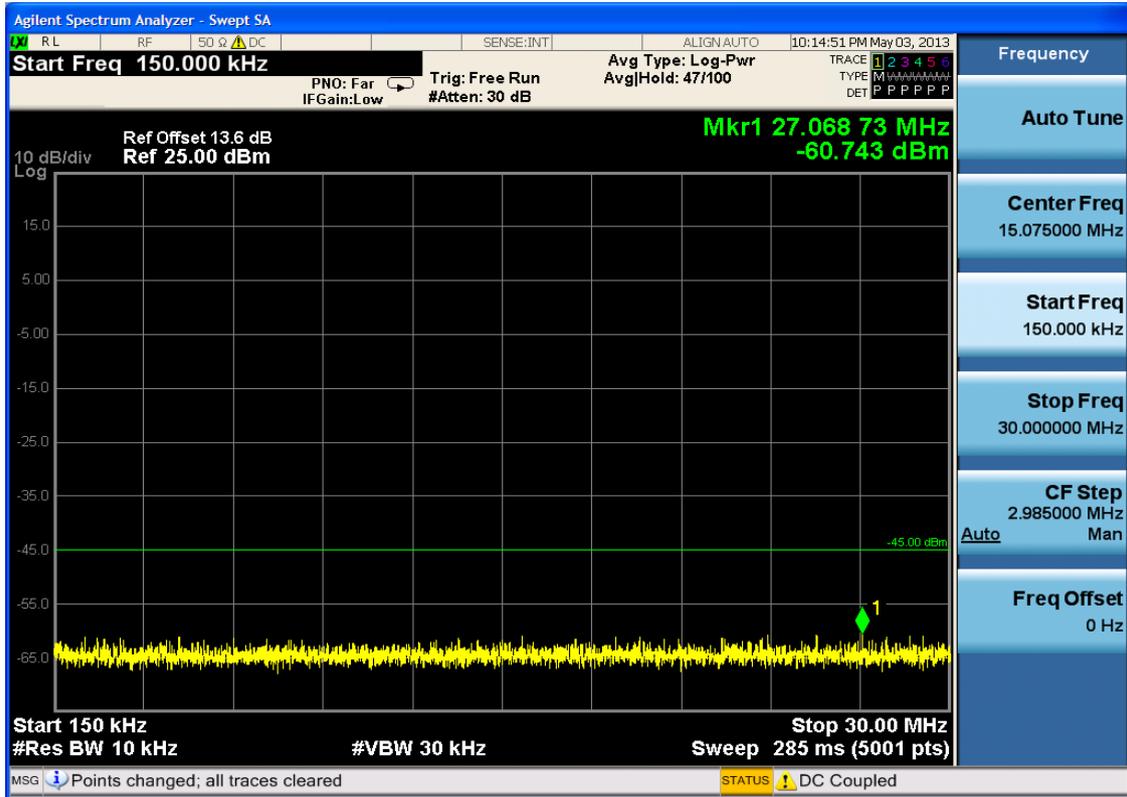




6.3.3.2.2.2 Test Channel = MCH

6.3.3.2.2.2.1 Test RB = RB1#0



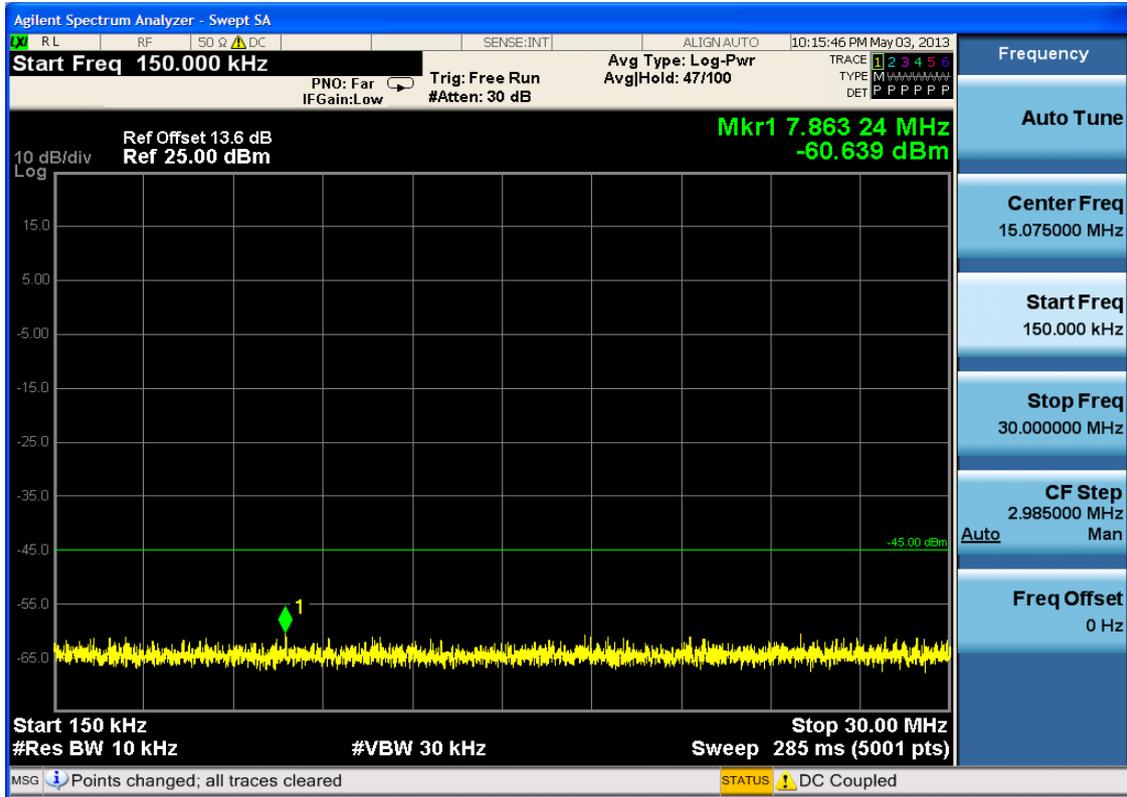




6.3.3.2.2.3 Test Channel = HCH

6.3.3.2.2.3.1 Test RB = RB1#0



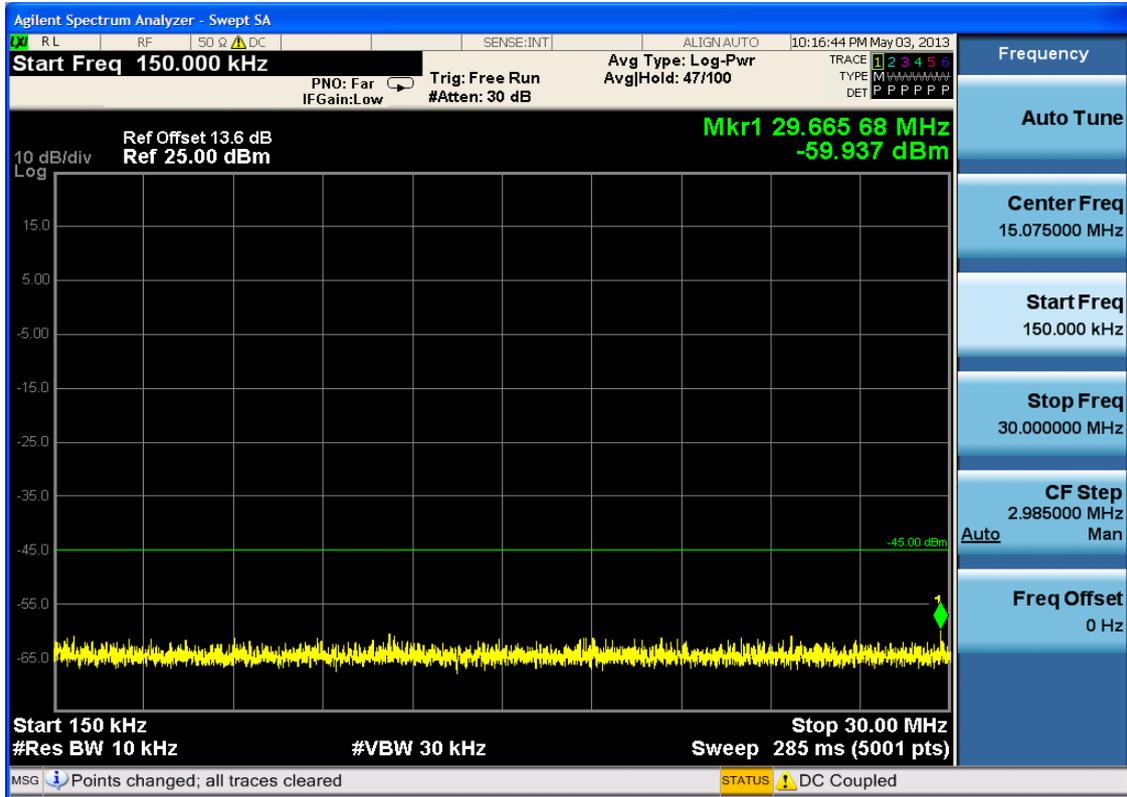


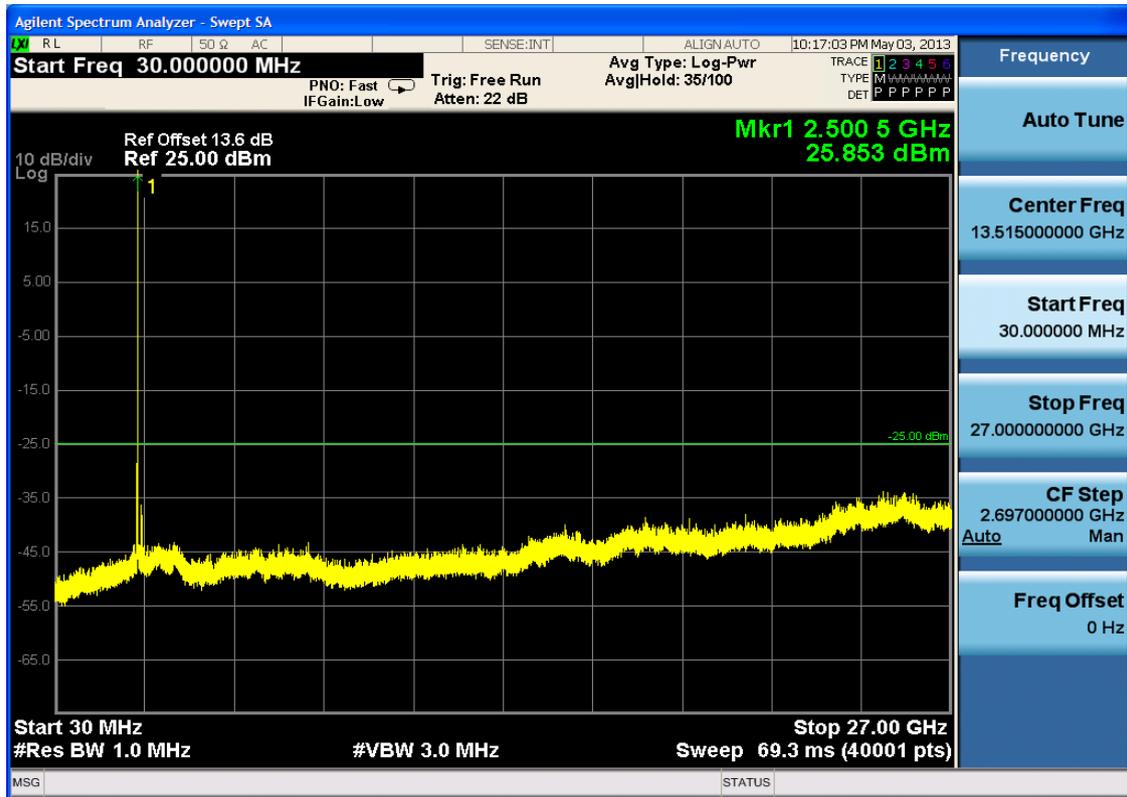
6.3.3.2.3 Test Bandwidth = 15

6.3.3.2.3.1 Test Channel = LCH

6.3.3.2.3.1.1 Test RB = RB1#0



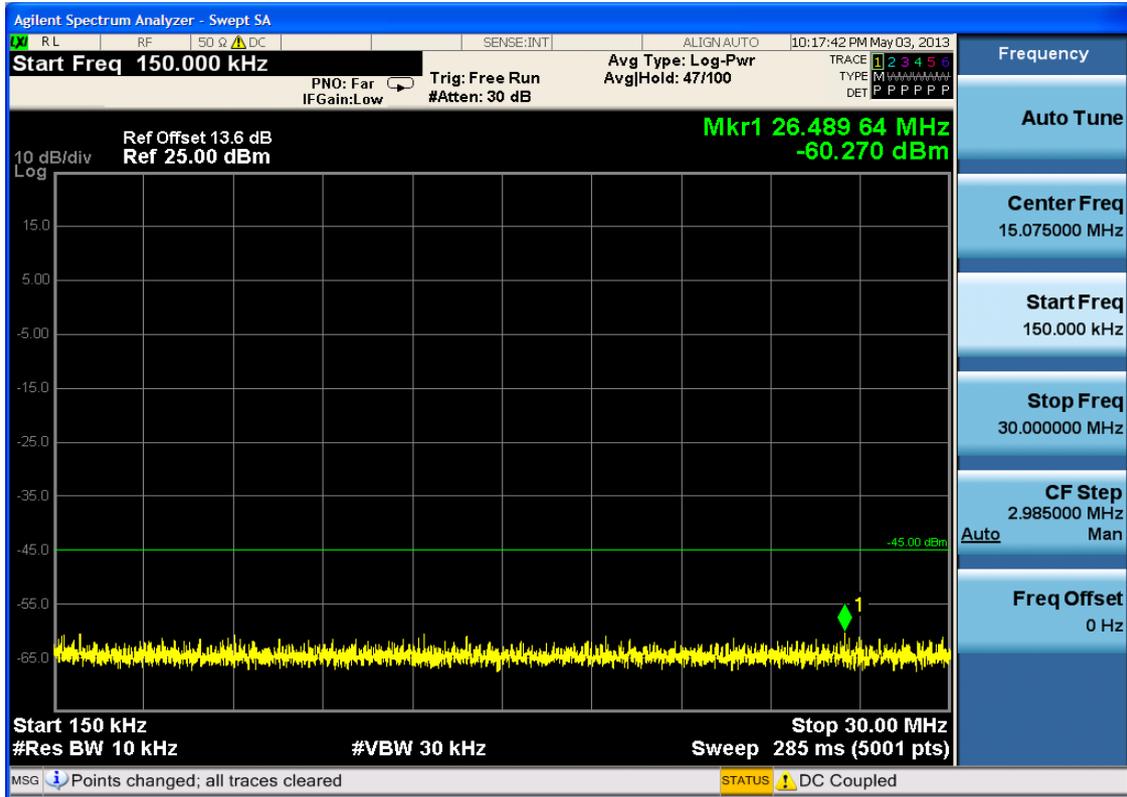




6.3.3.2.3.2 Test Channel = MCH

6.3.3.2.3.2.1 Test RB = RB1#0

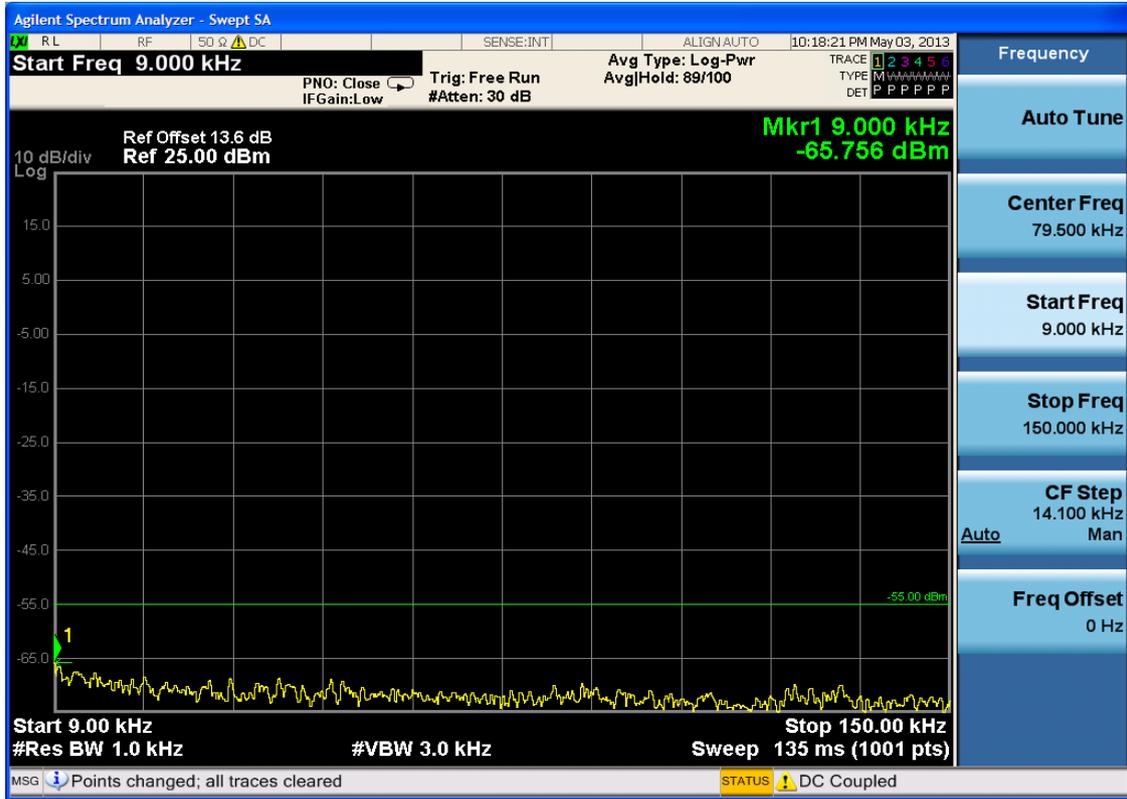


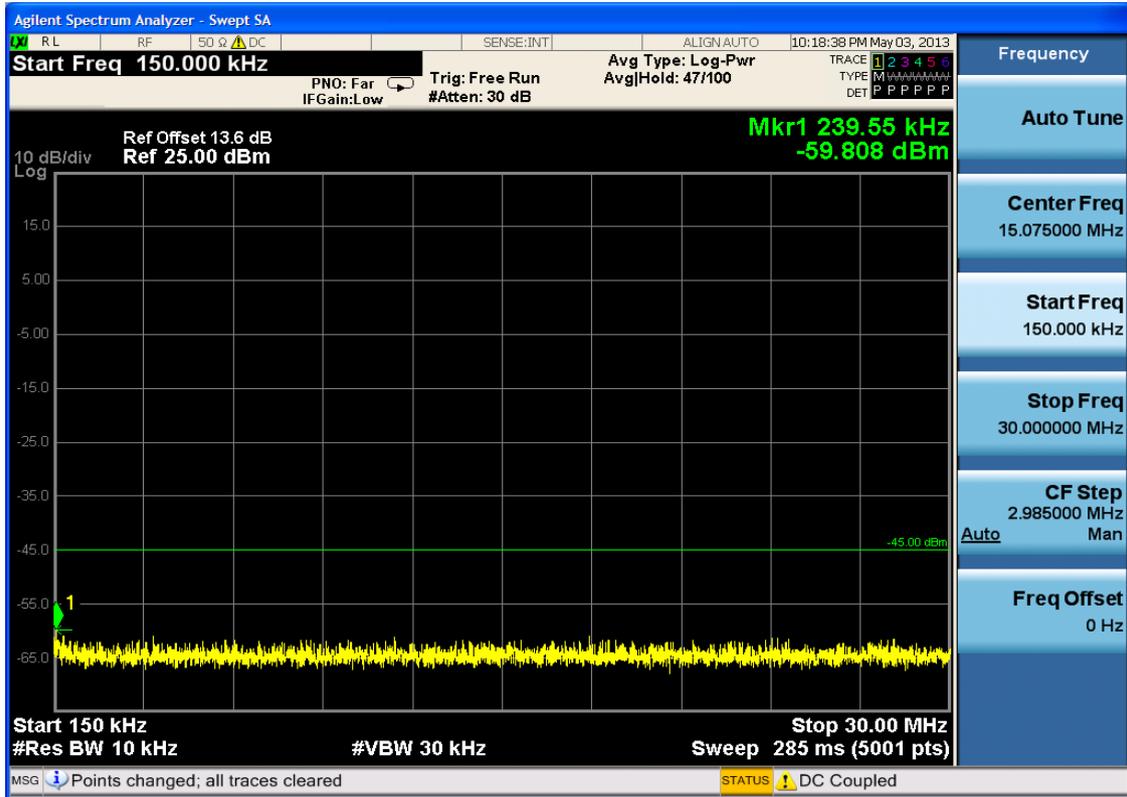


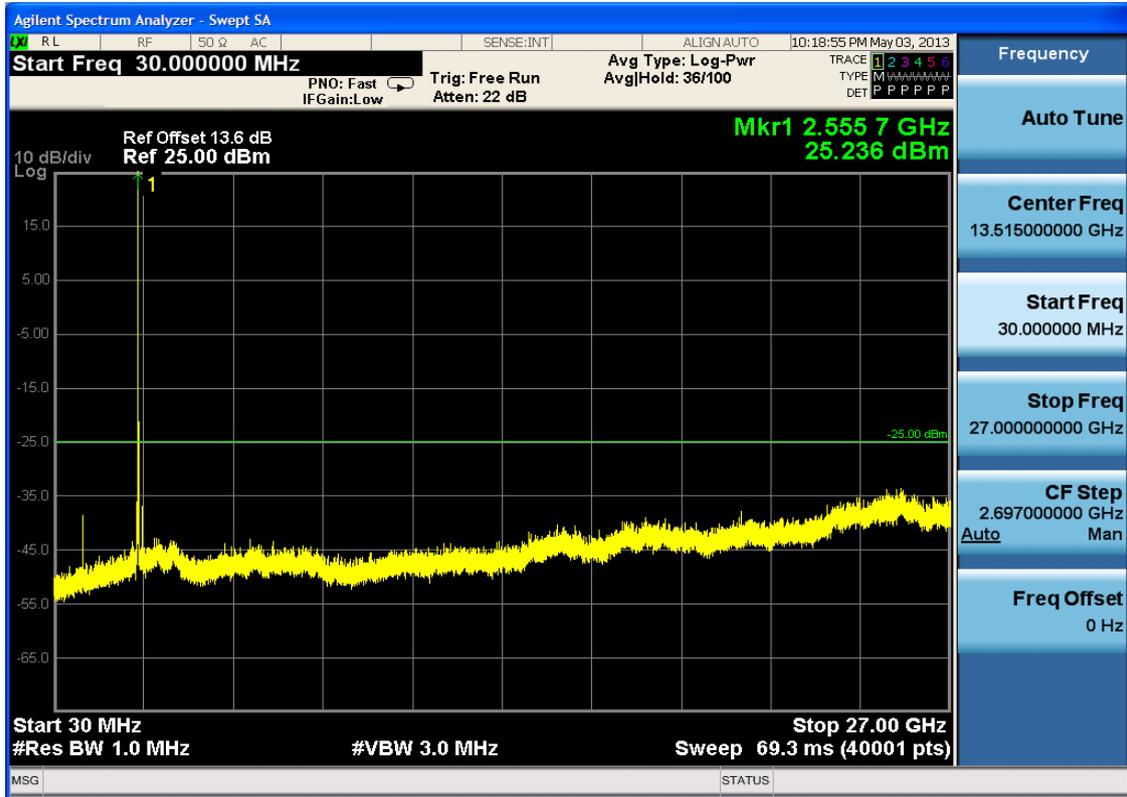


6.3.3.2.3.3 Test Channel = HCH

6.3.3.2.3.3.1 Test RB = RB1#0







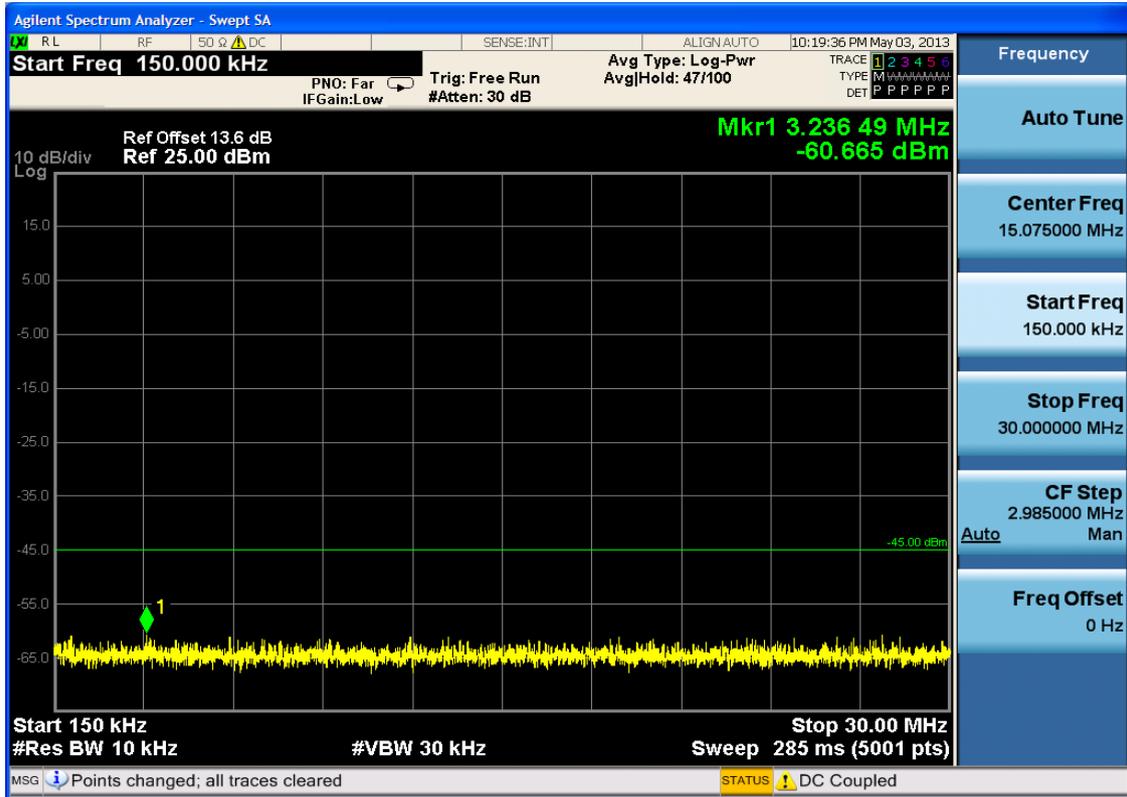


6.3.3.2.4 Test Bandwidth = 20

6.3.3.2.4.1 Test Channel = LCH

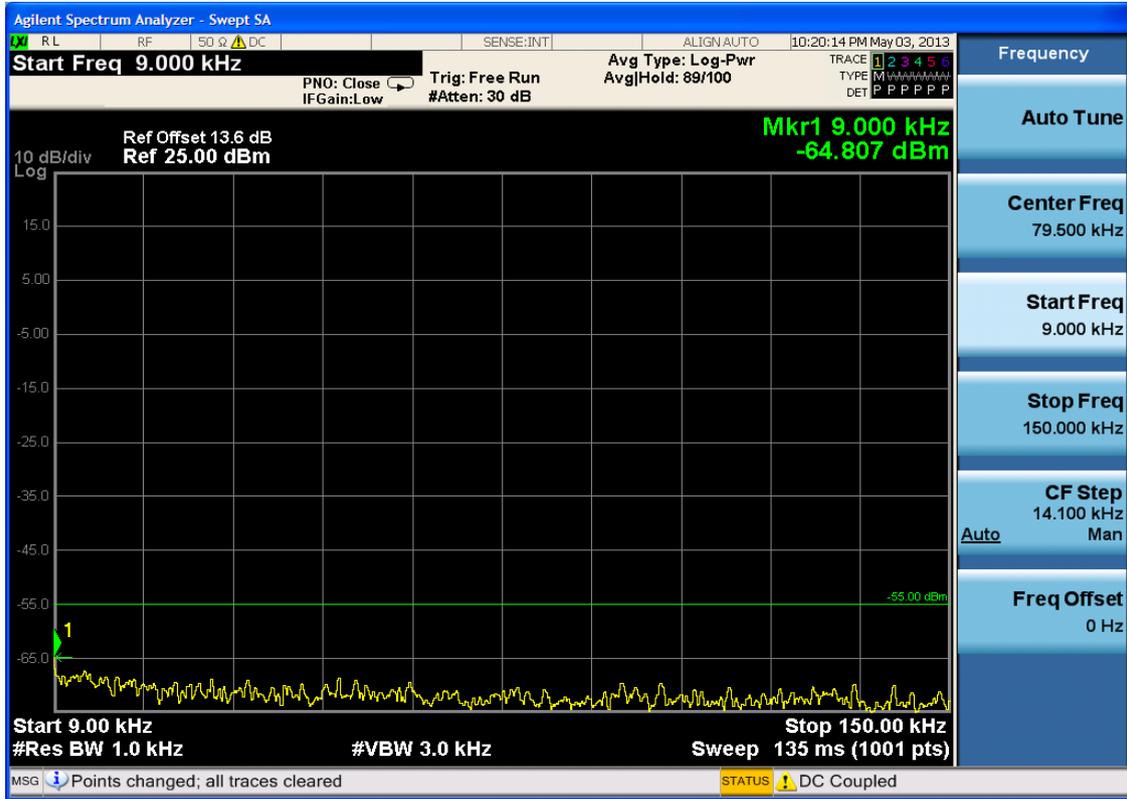
6.3.3.2.4.1.1 Test RB = RB1#0

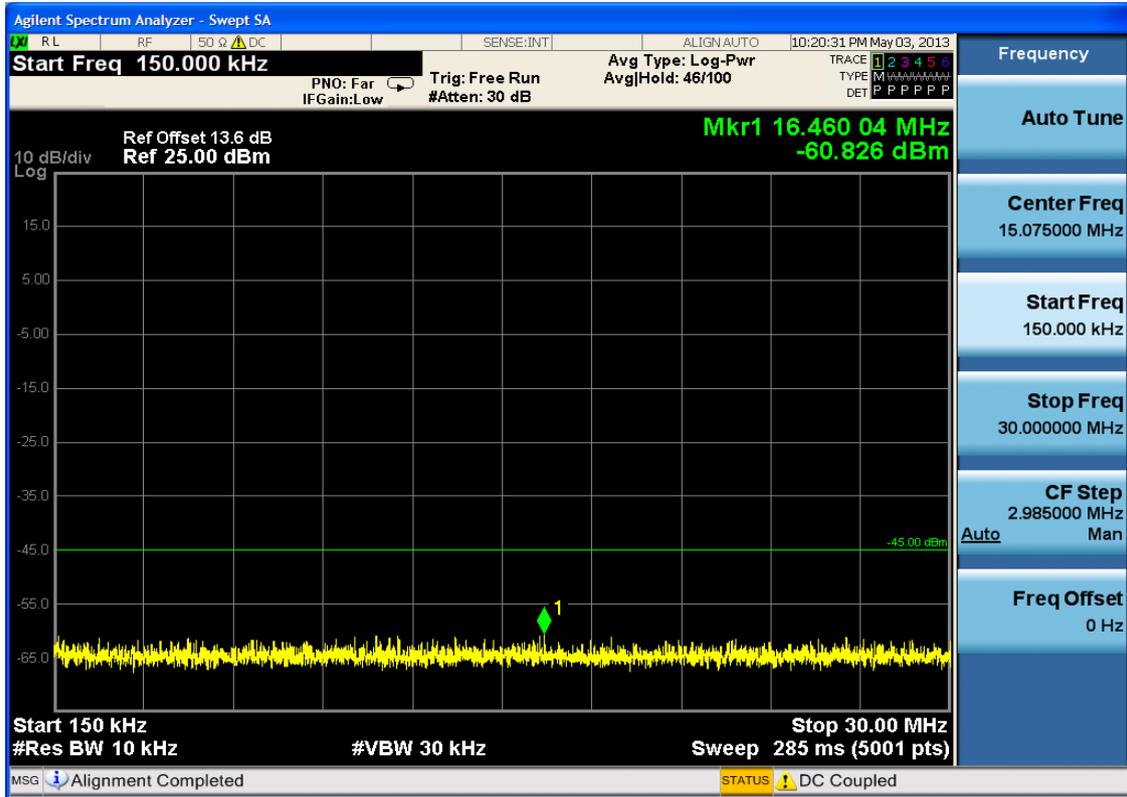


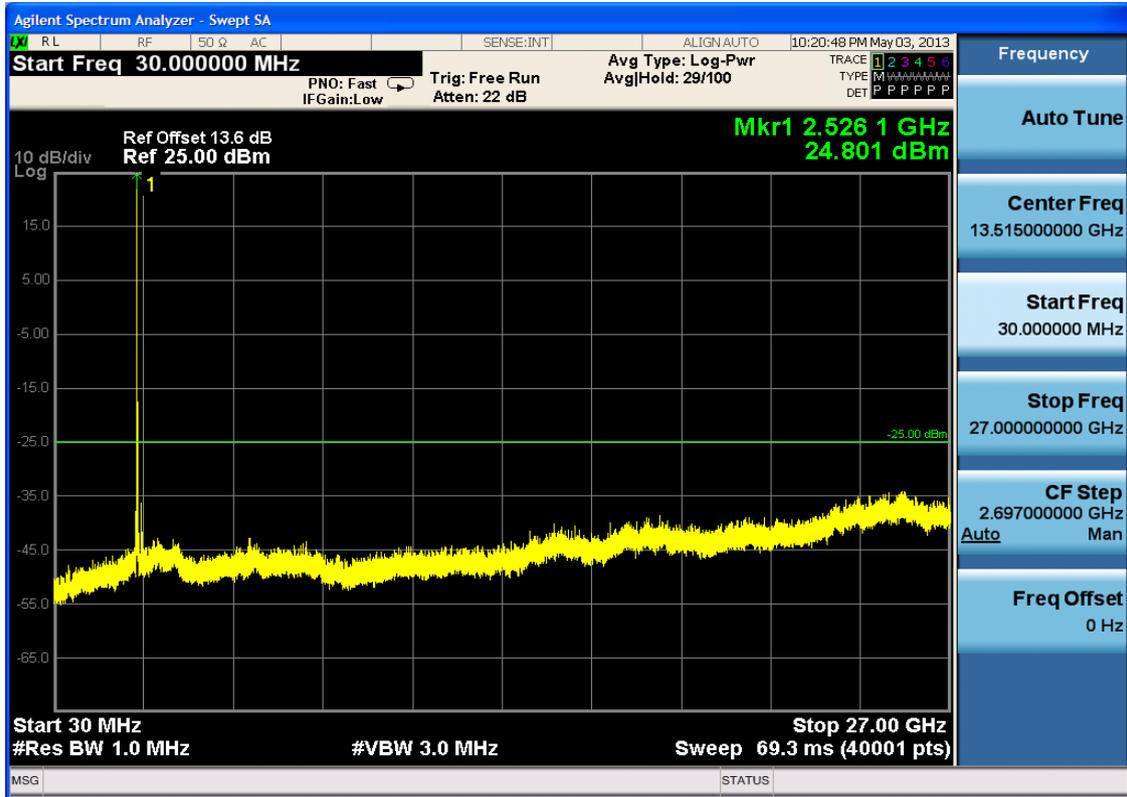


6.3.3.2.4.2 Test Channel = MCH

6.3.3.2.4.2.1 Test RB = RB1#0

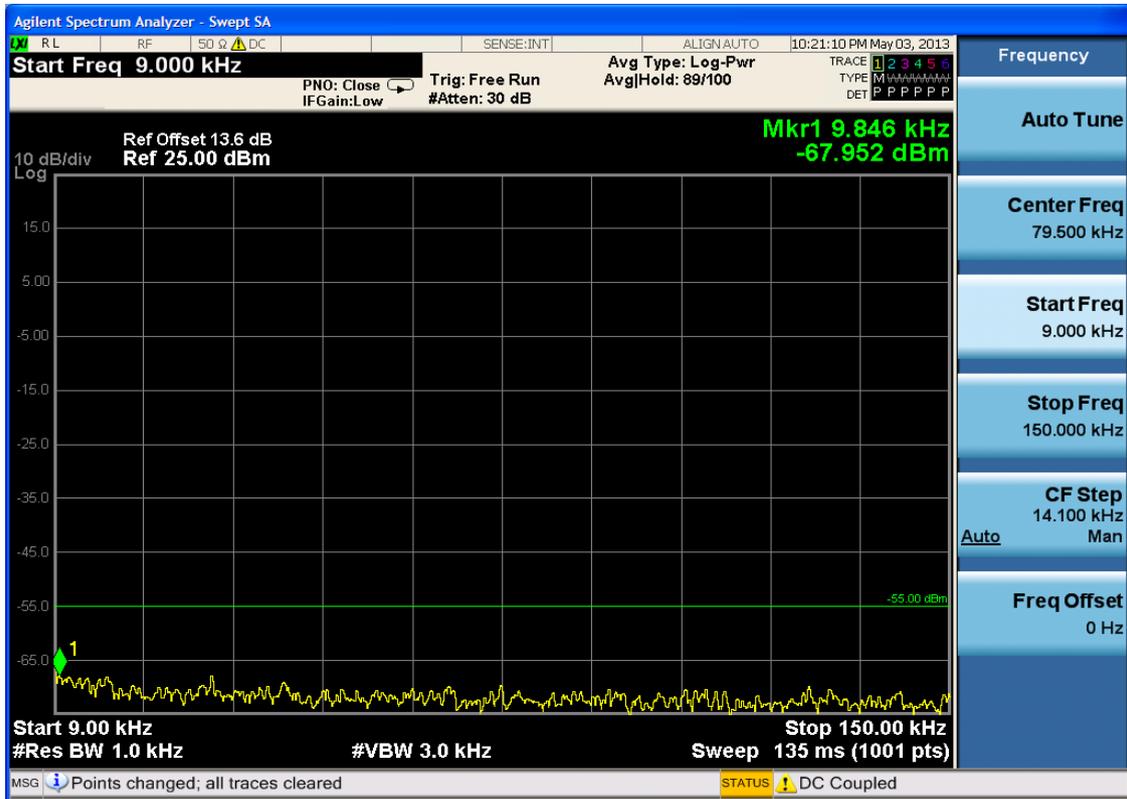


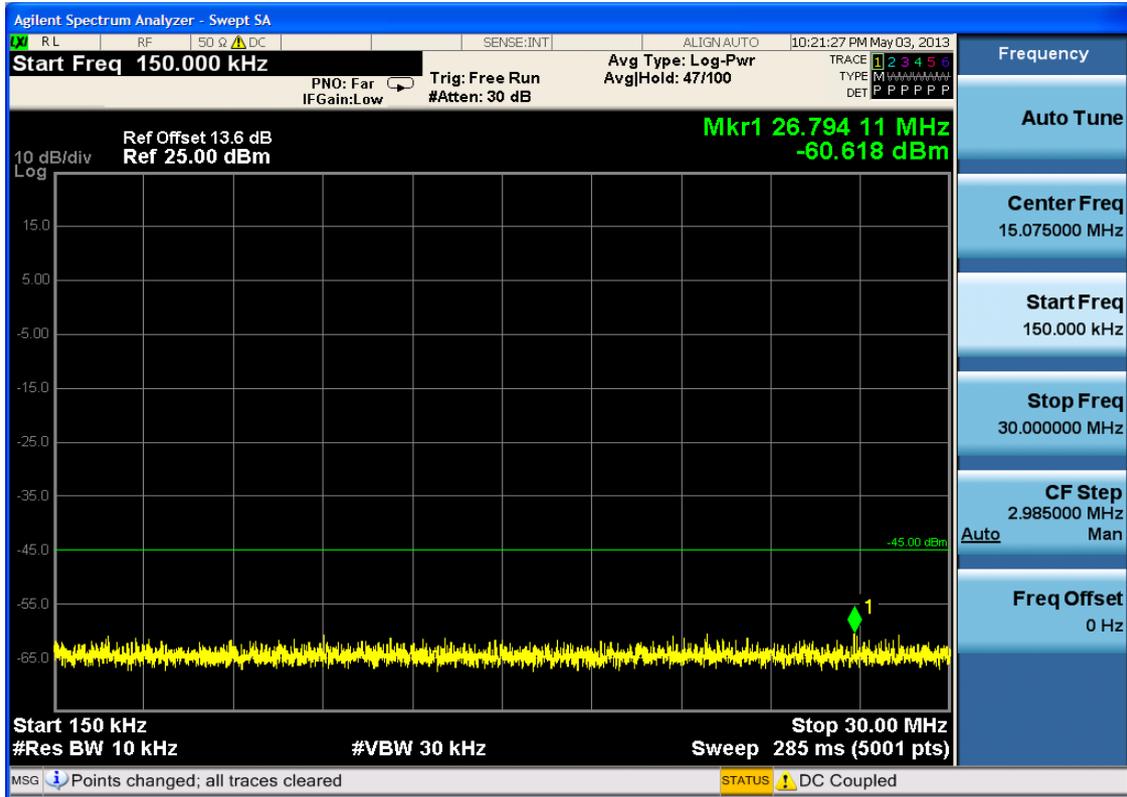


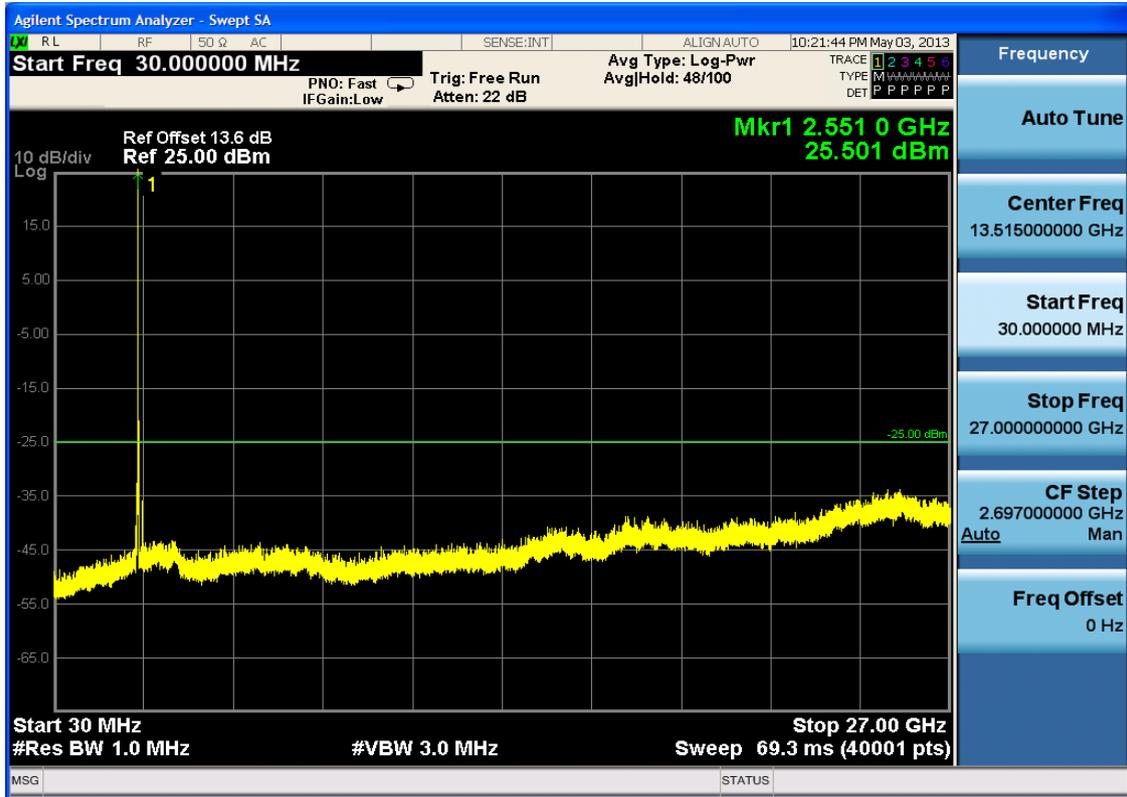


6.3.3.2.4.3 Test Channel = HCH

6.3.3.2.4.3.1 Test RB = RB1#0







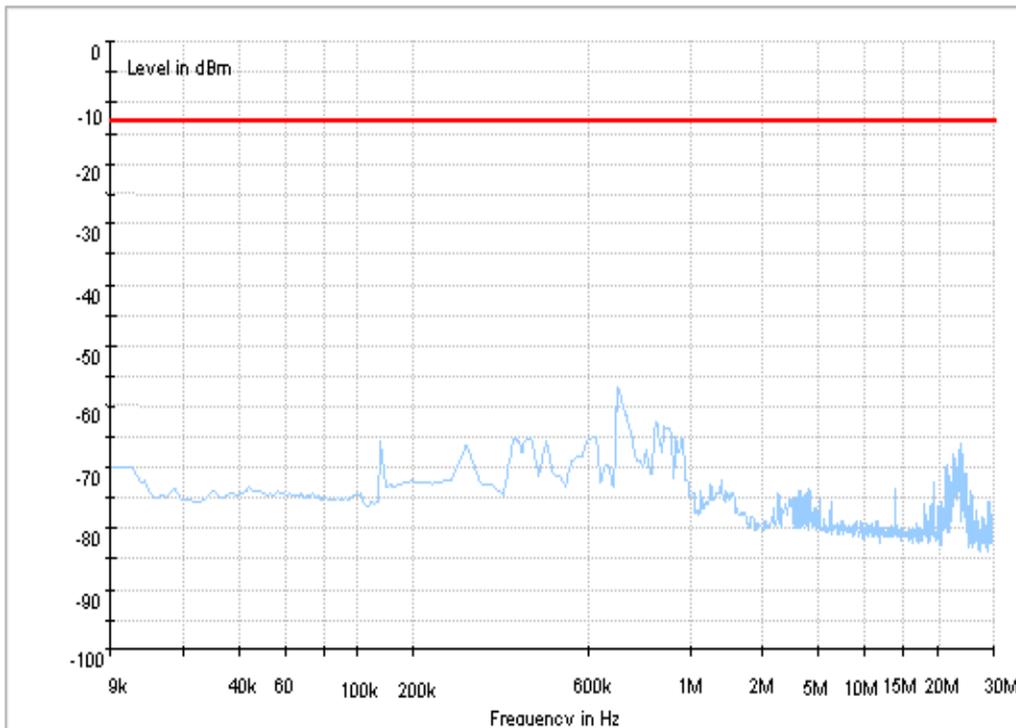
7Appendix_G: Field Strength of Spurious Radiation

Part I - Test Plots

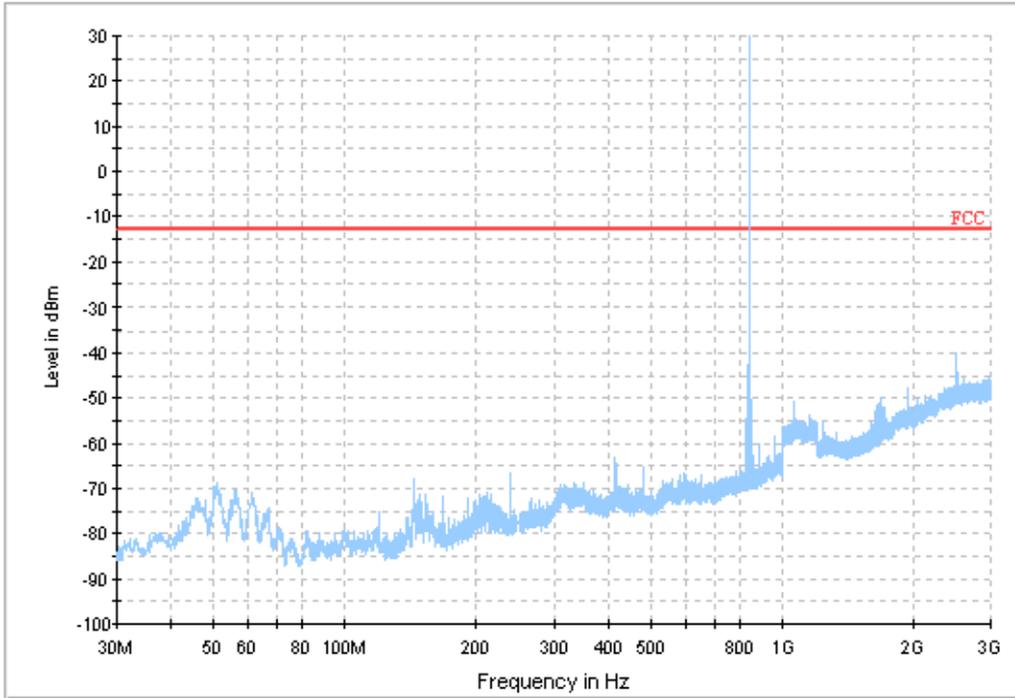
7.1 For GSM

7.1.1 Test Band = GSM850

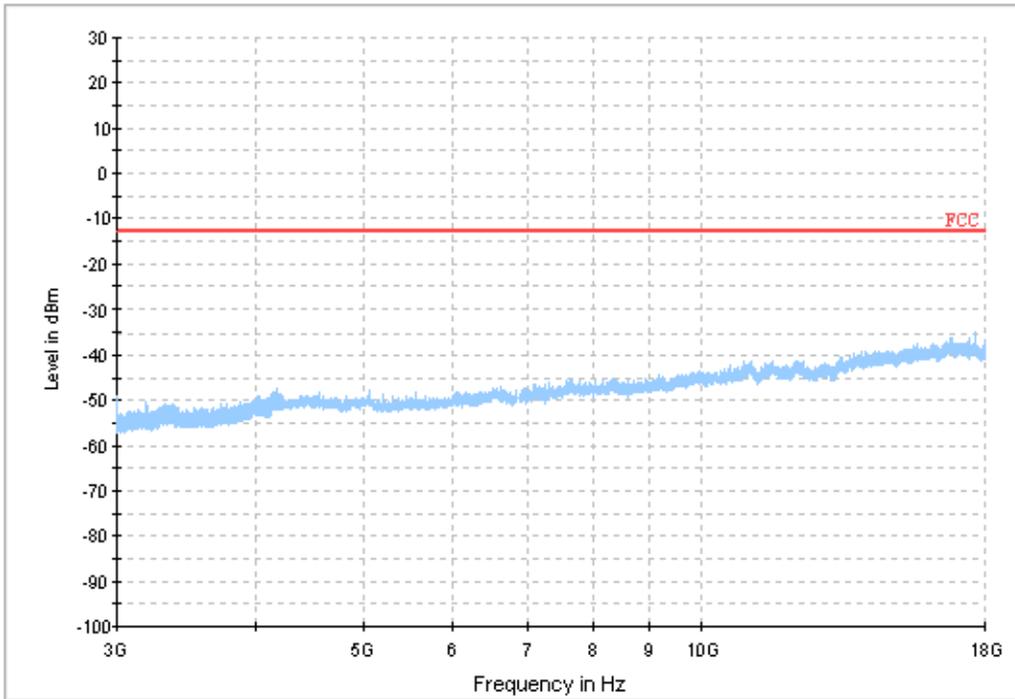
7.1.1.1 Test Mode = GSM/TM1



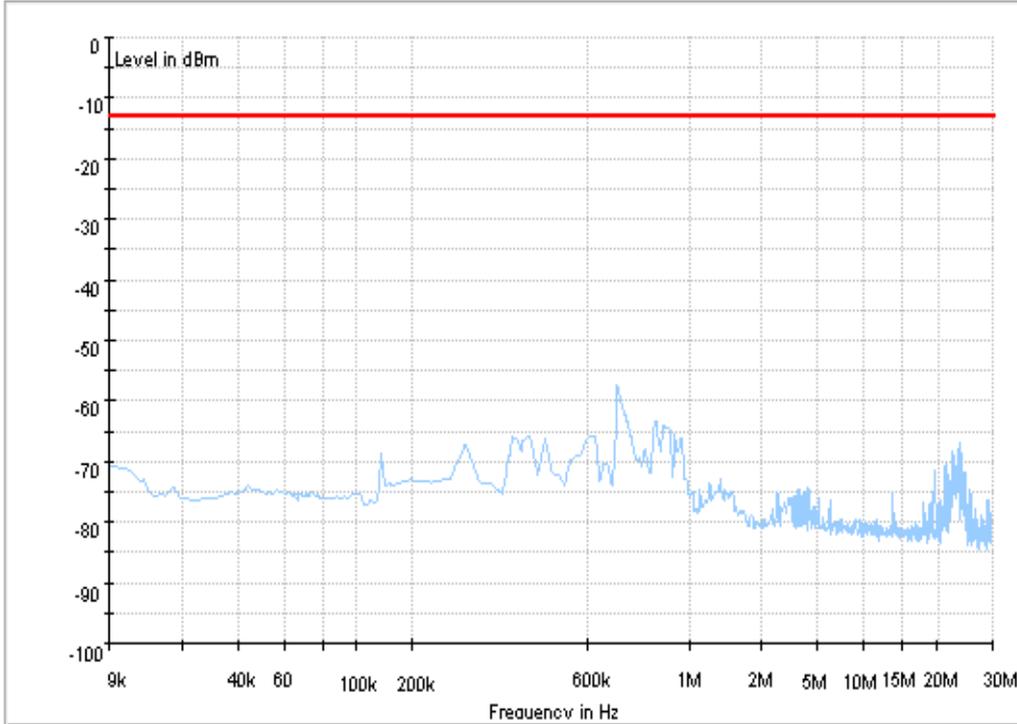
Copy of FCC PART22 GSM850_L



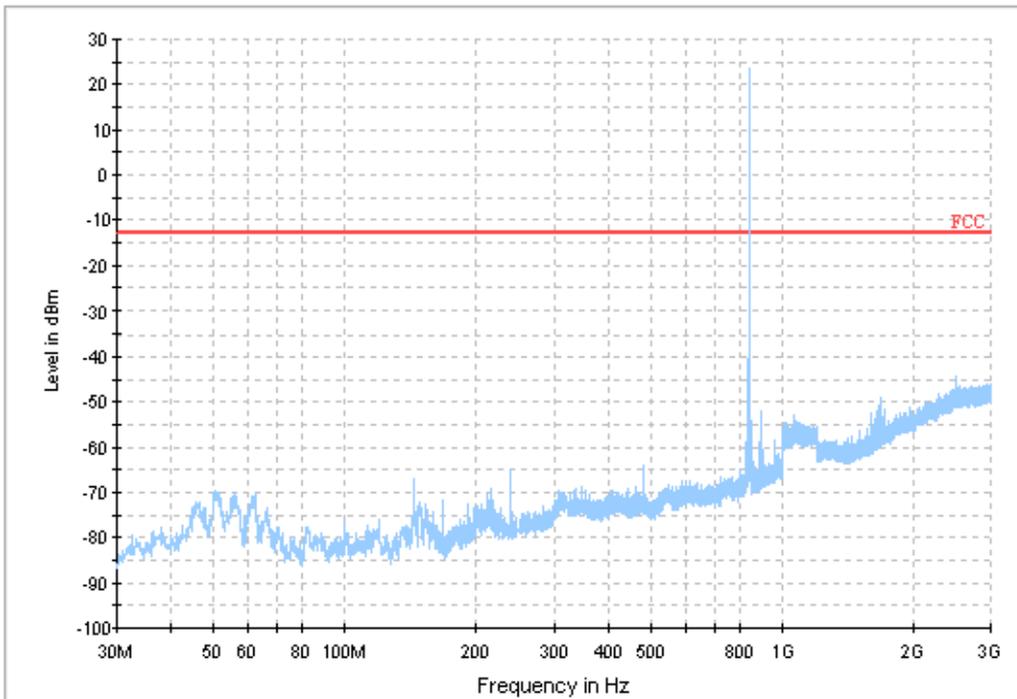
Copy of FCC PART22 GSM850_H



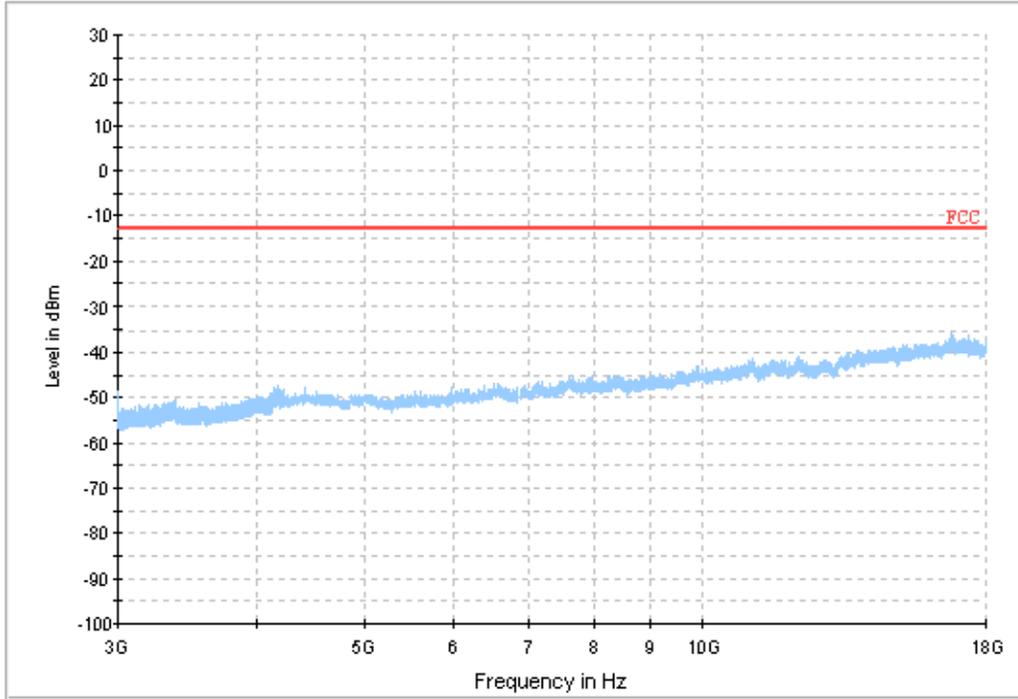
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

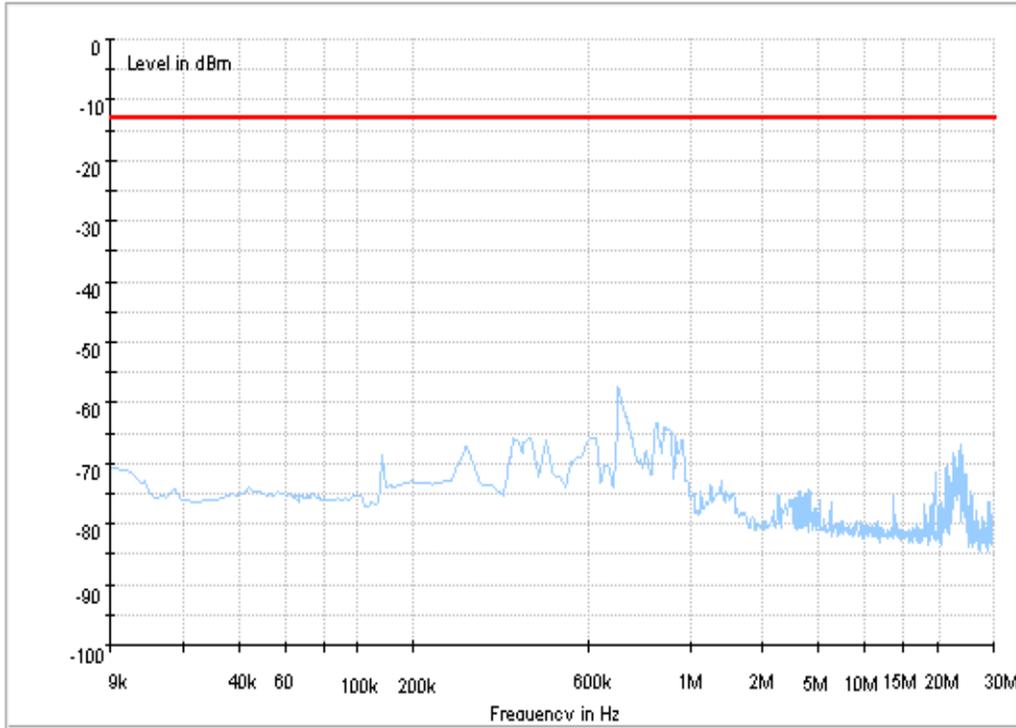


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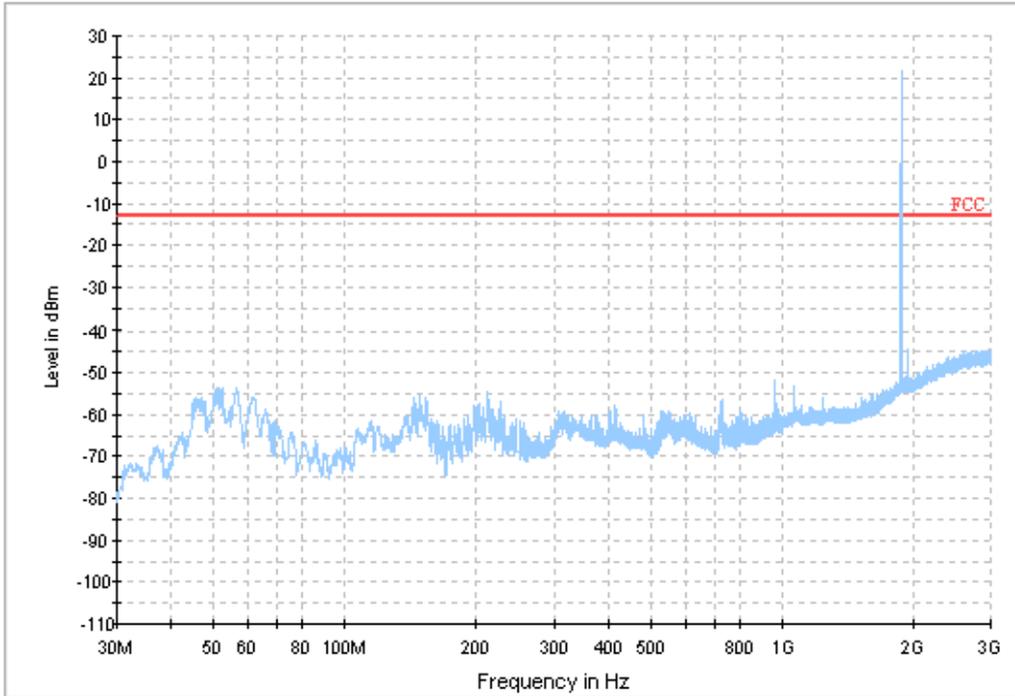


7.1.2 Test Band = GSM1900

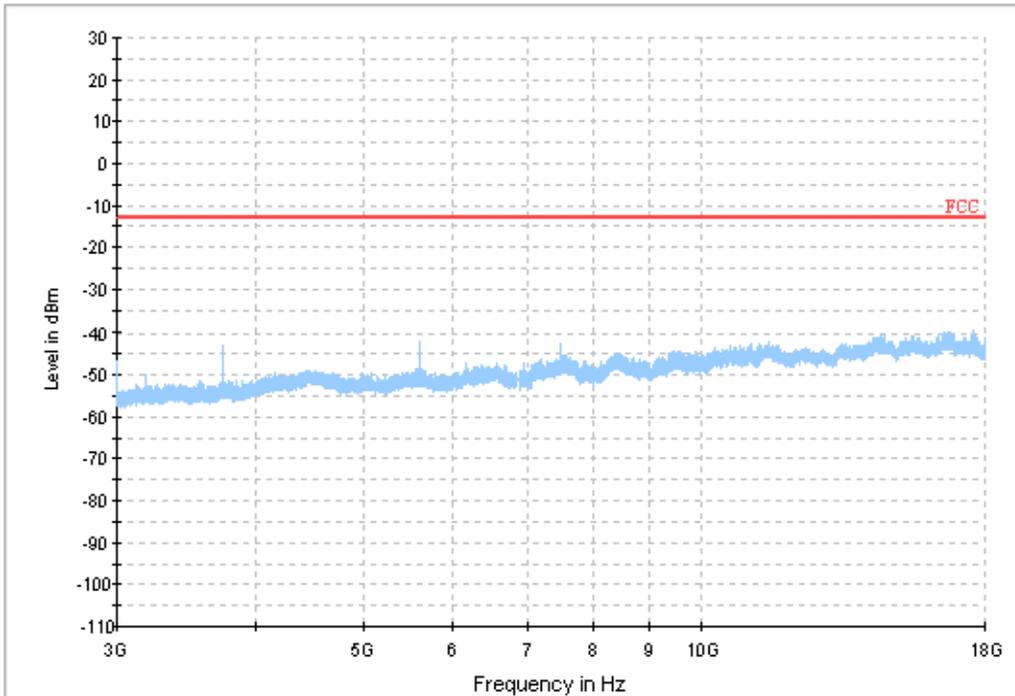
7.1.2.1 Test Mode = GSM/TM1

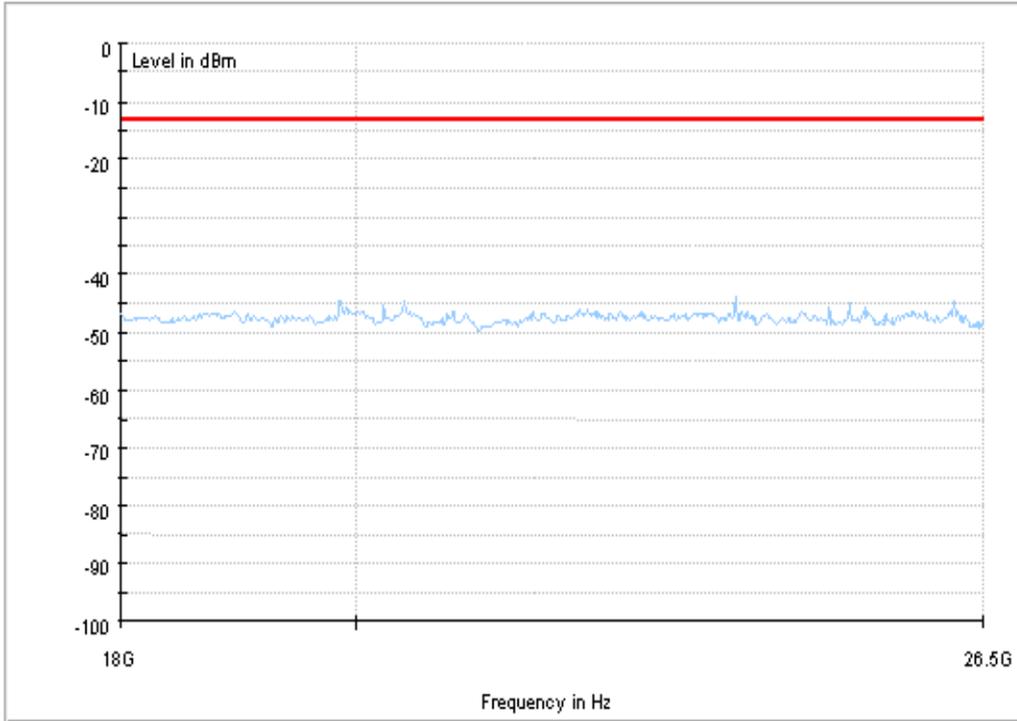


Copy of FCC PART24 GSM1900_L

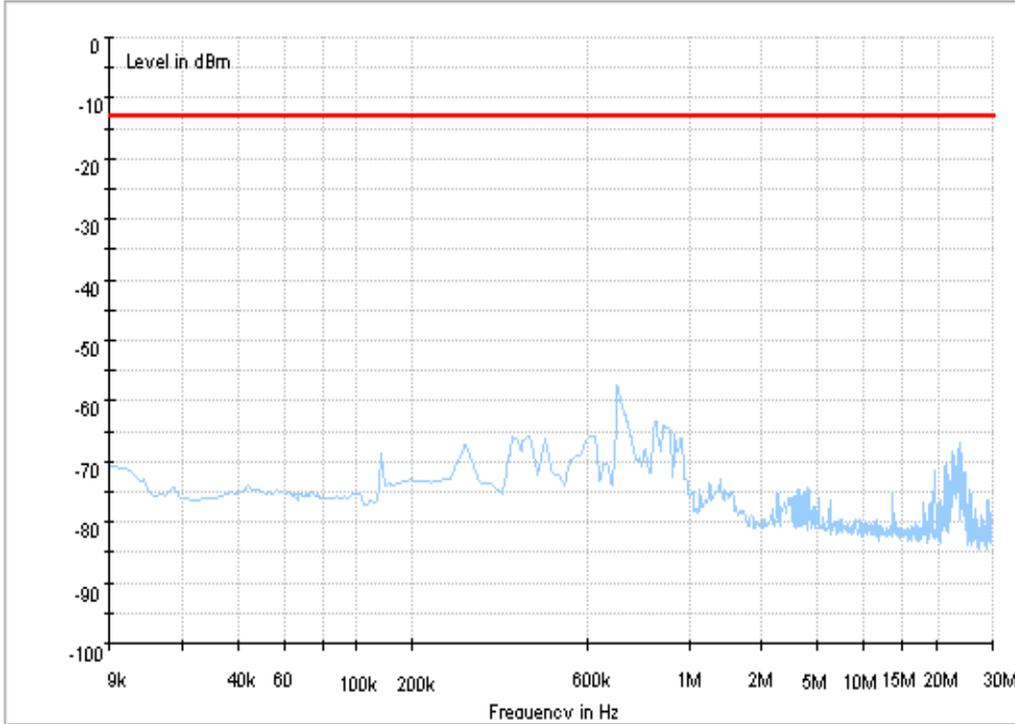


Copy of FCC PART24 GSM1900_H

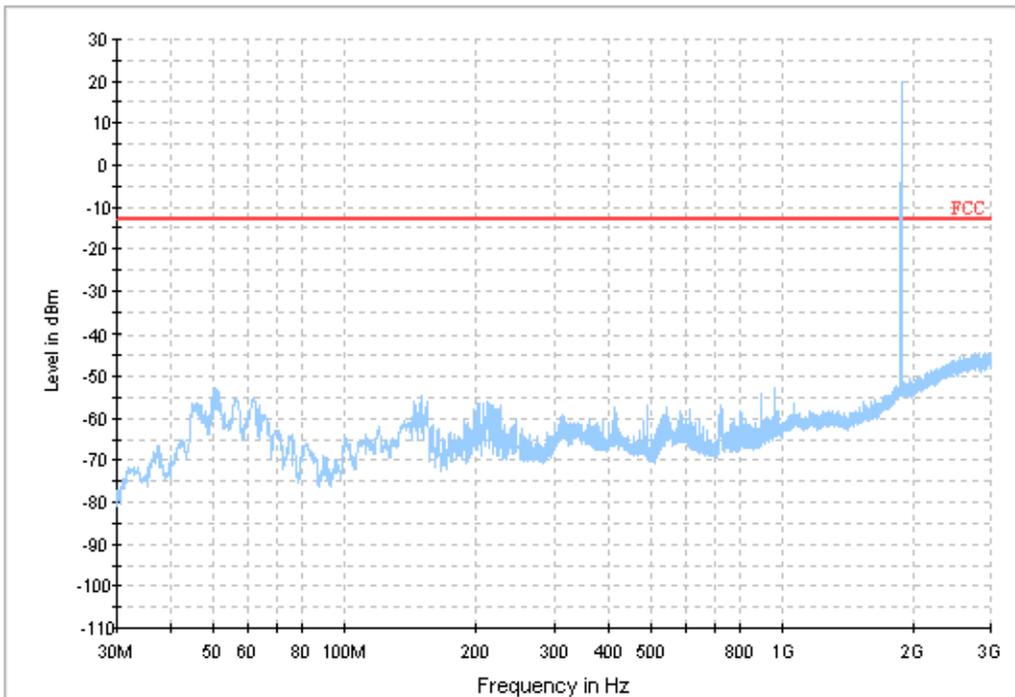




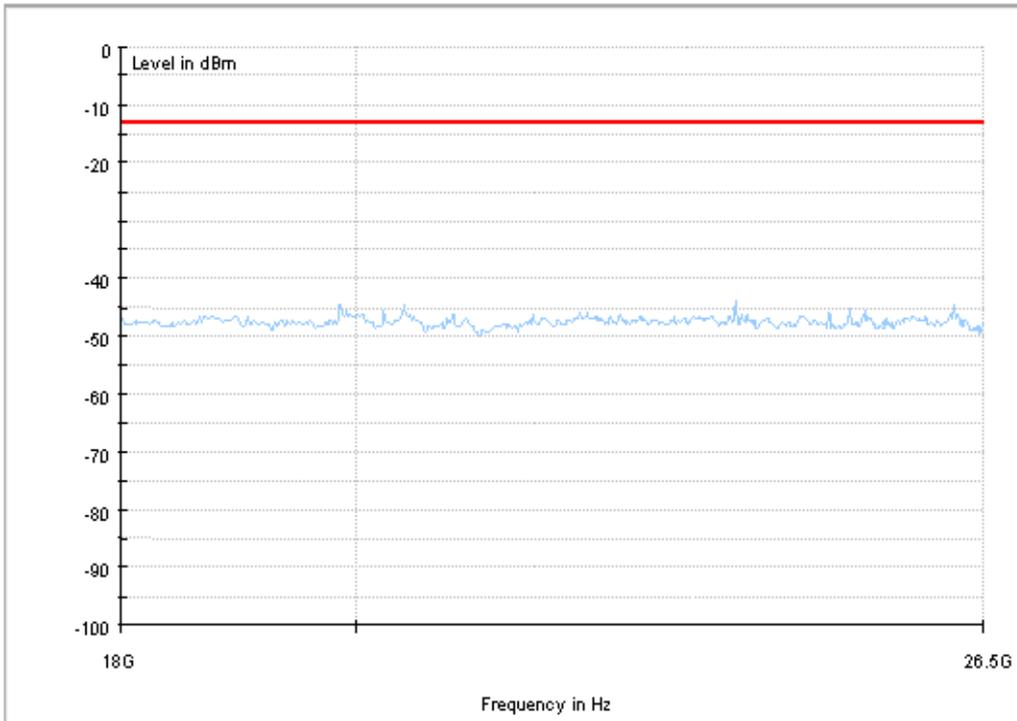
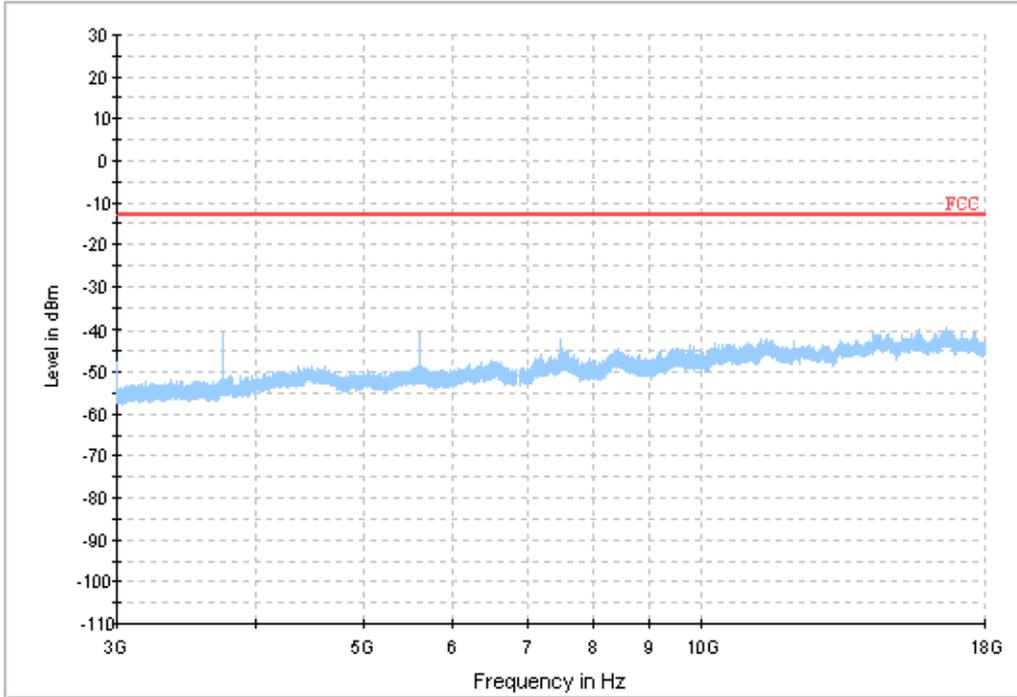
7.1.2.2 Test Mode = GSM/TM2



Copy of FCC PART24 GSM1900_L



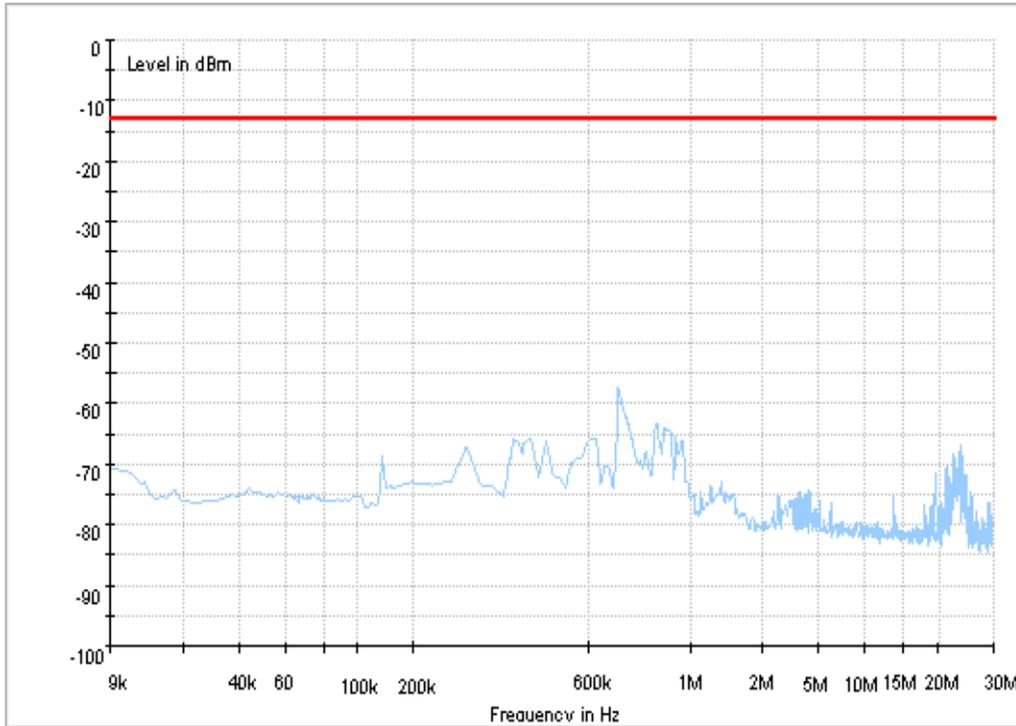
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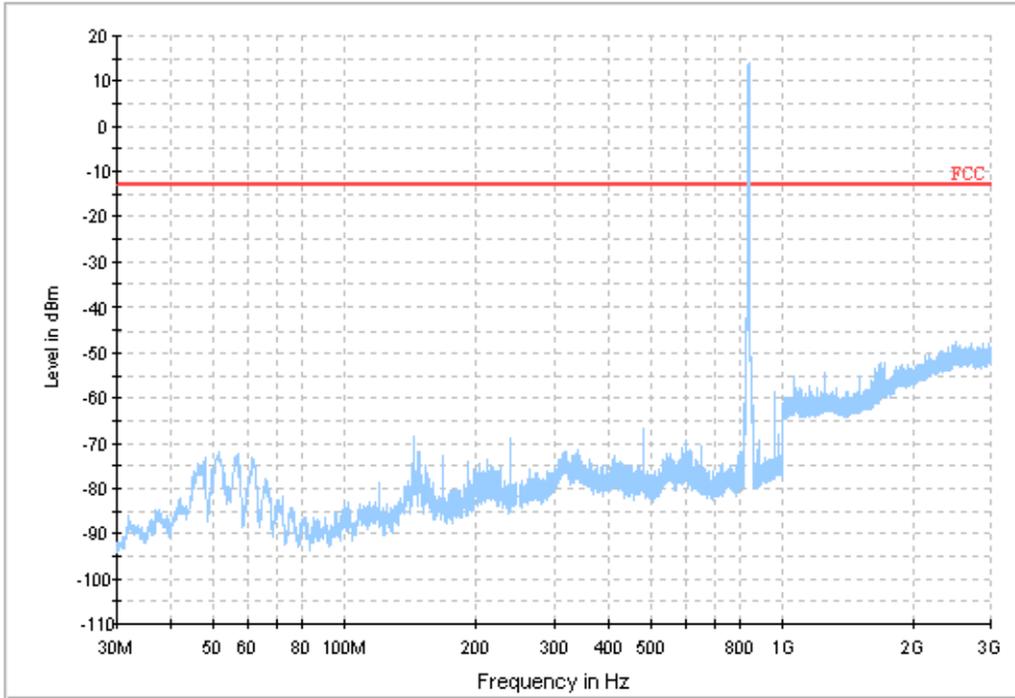
7.2 For UMTS

7.2.1 Test Band = WCDMA850

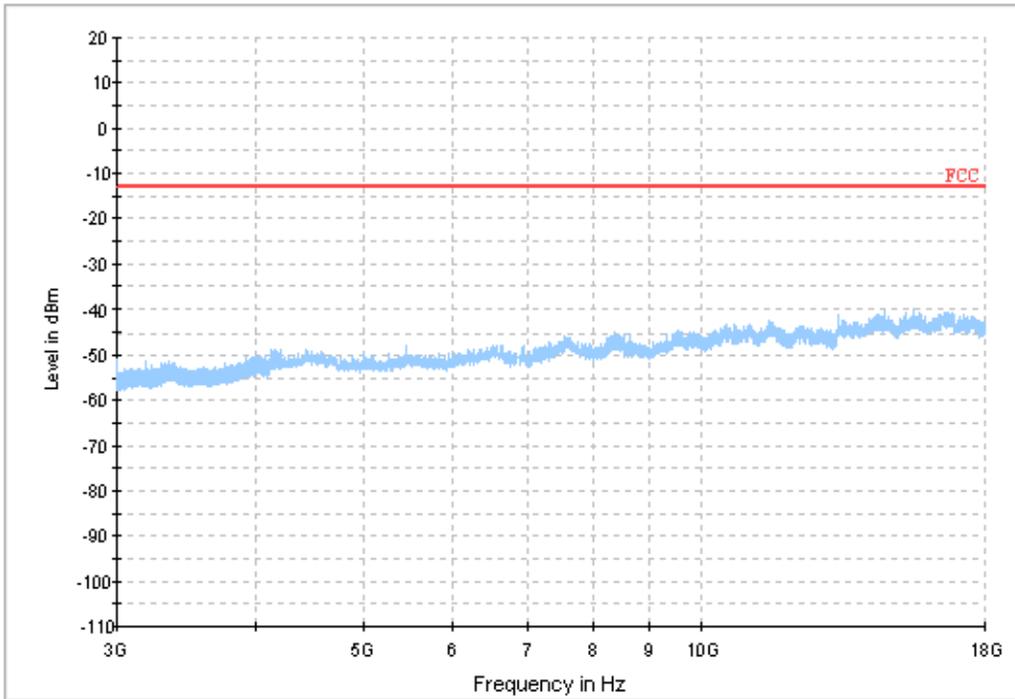
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

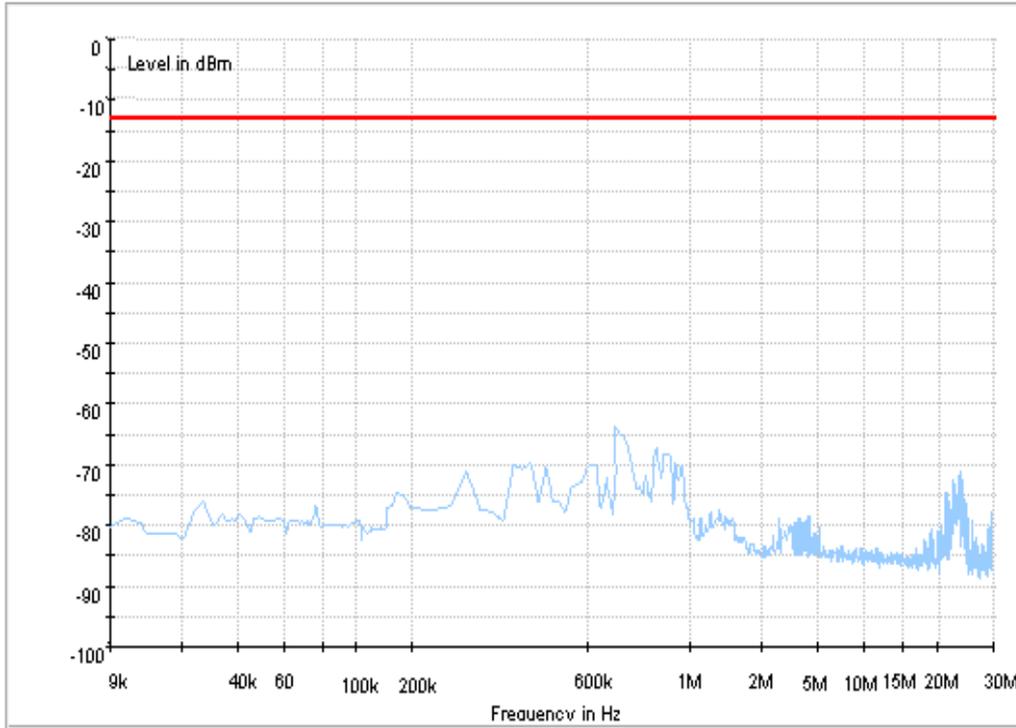


Copy of FCC PART22 WCDMA850_H

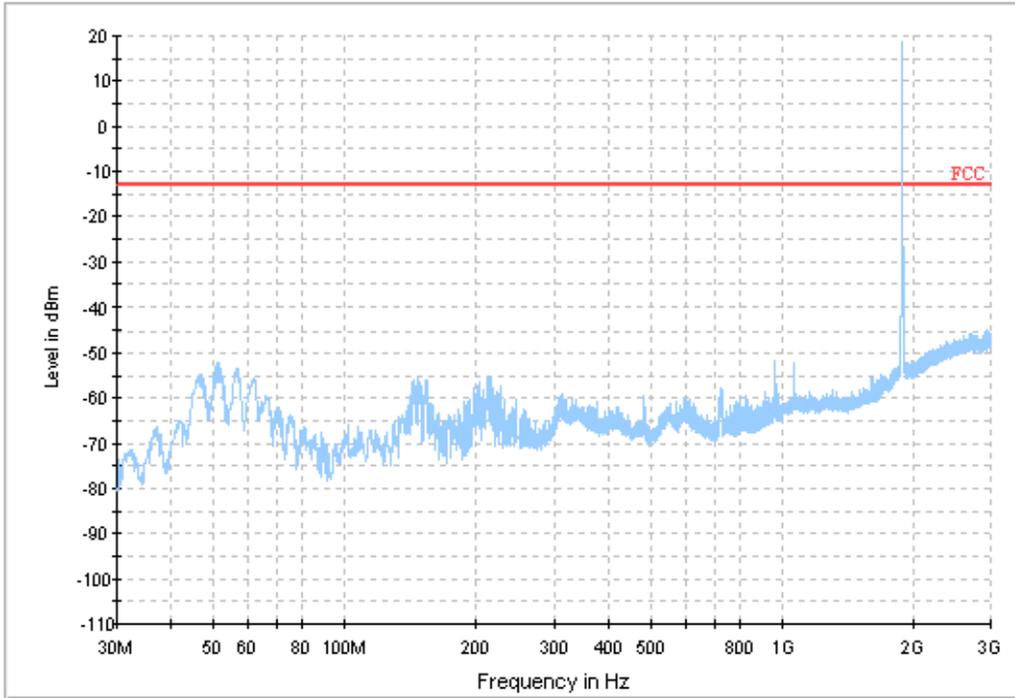


7.2.2 Test Band = WCDMA1900

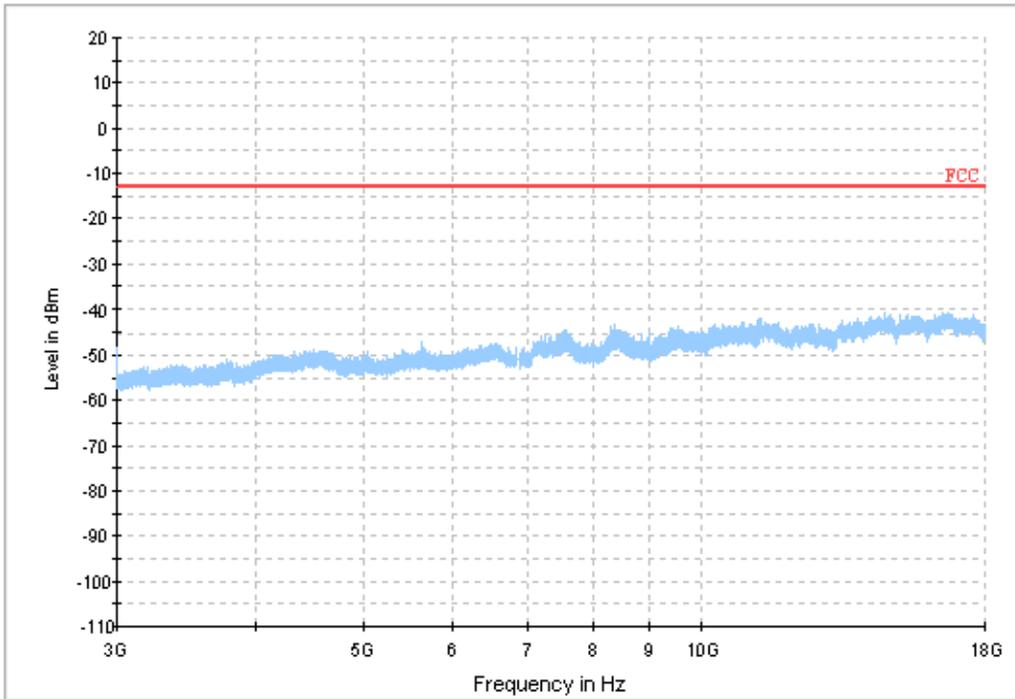
7.2.2.1 Test Mode = UMTS/TM1

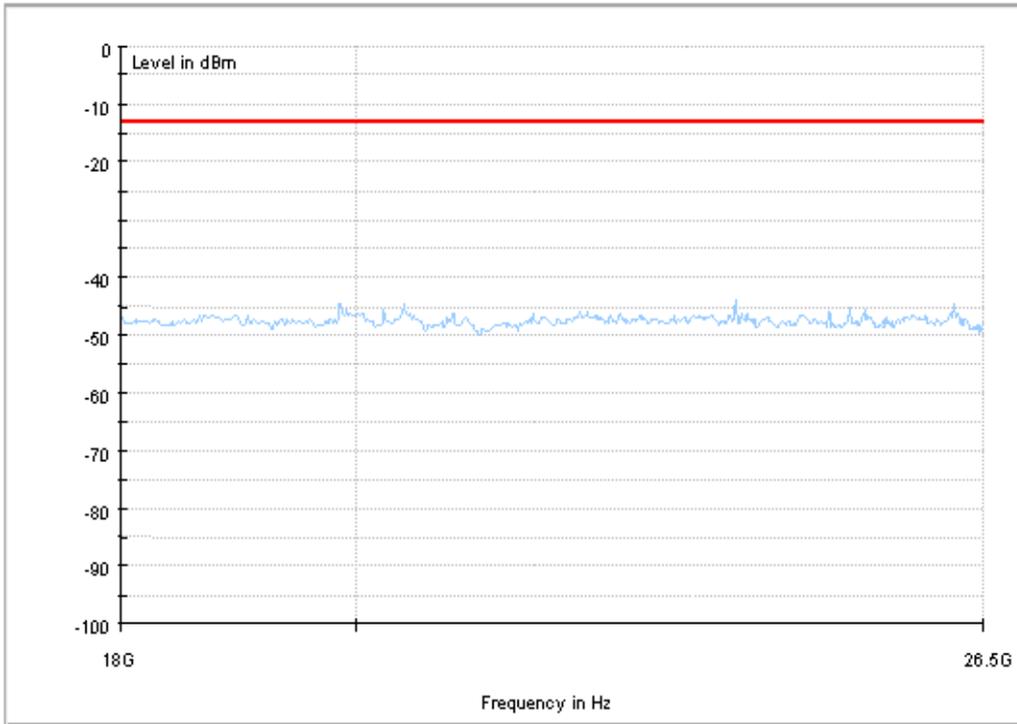


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H

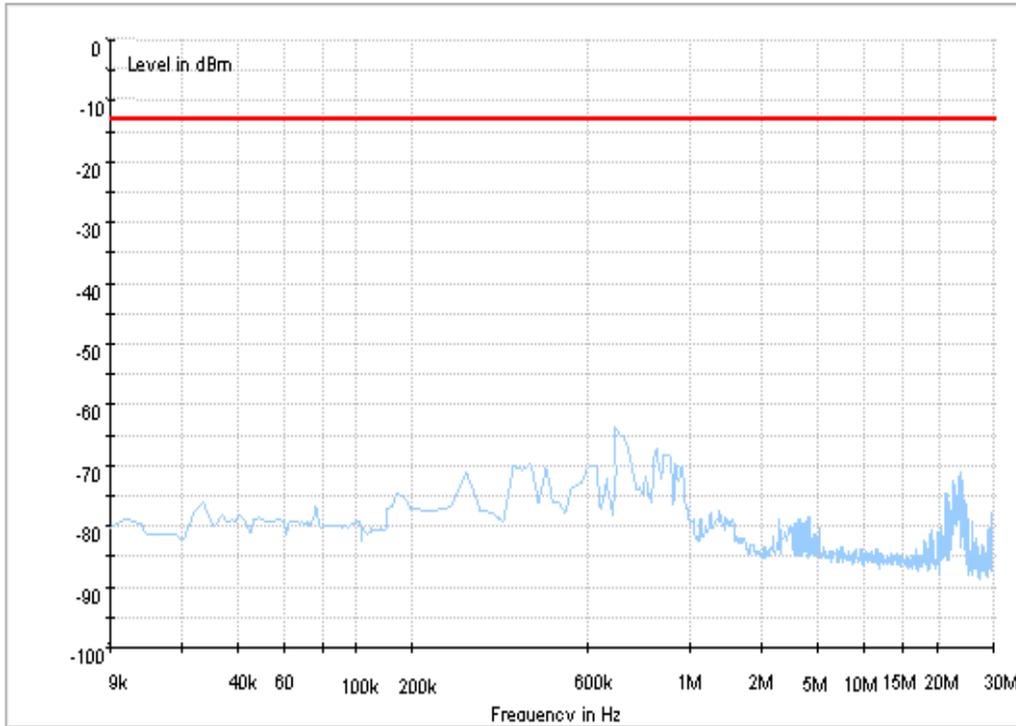




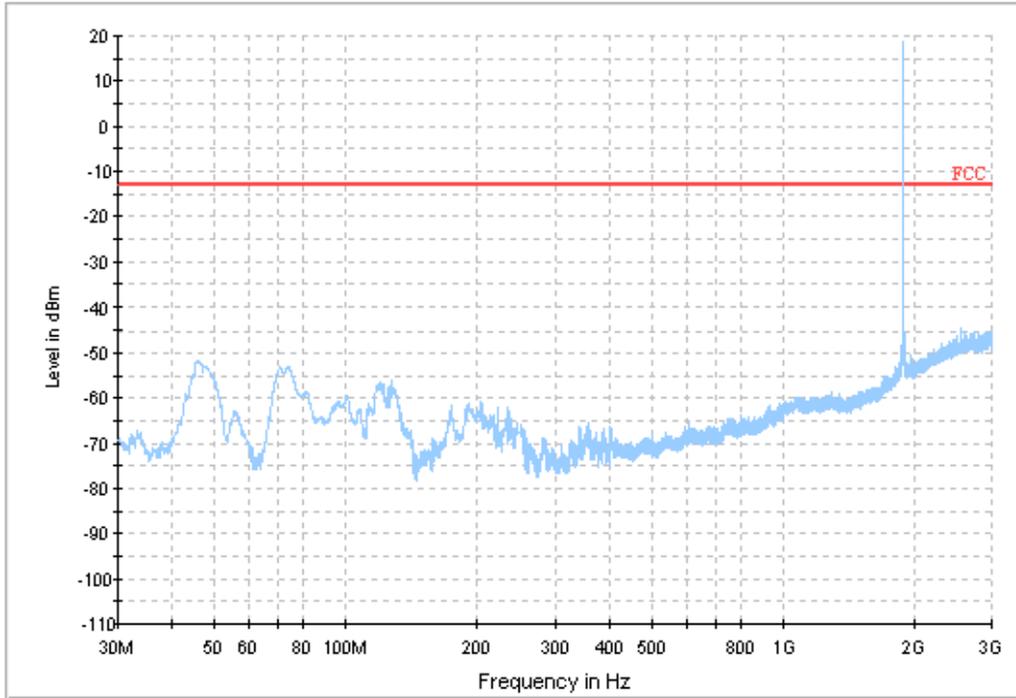
7.3 For LTE

7.3.1 Test Band = BAND2

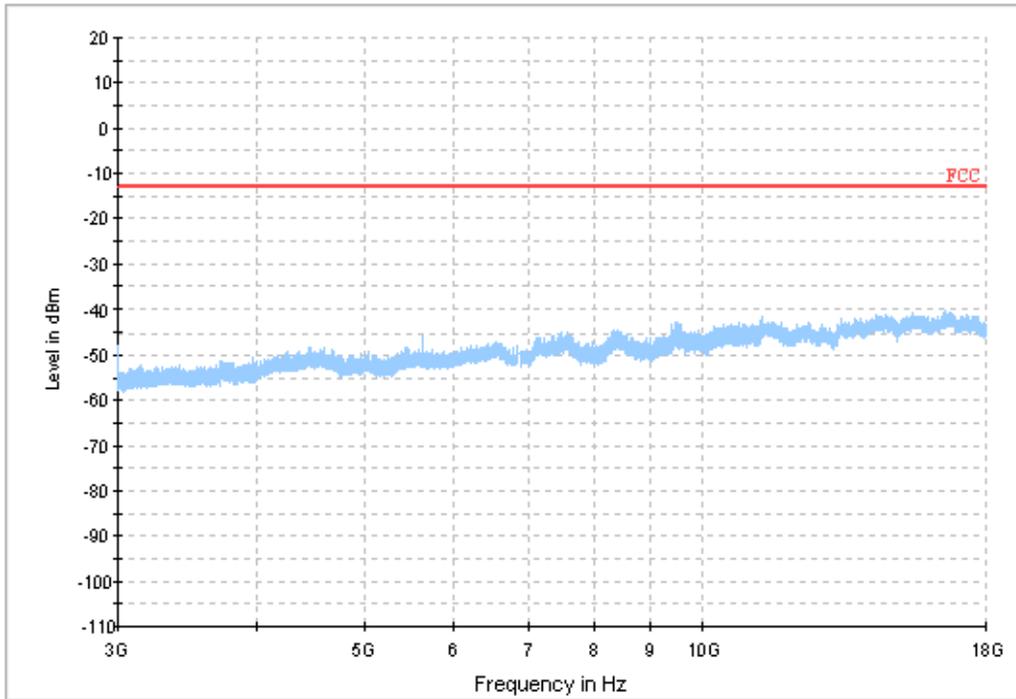
7.3.1.1 Test Bandwidth = 1.4

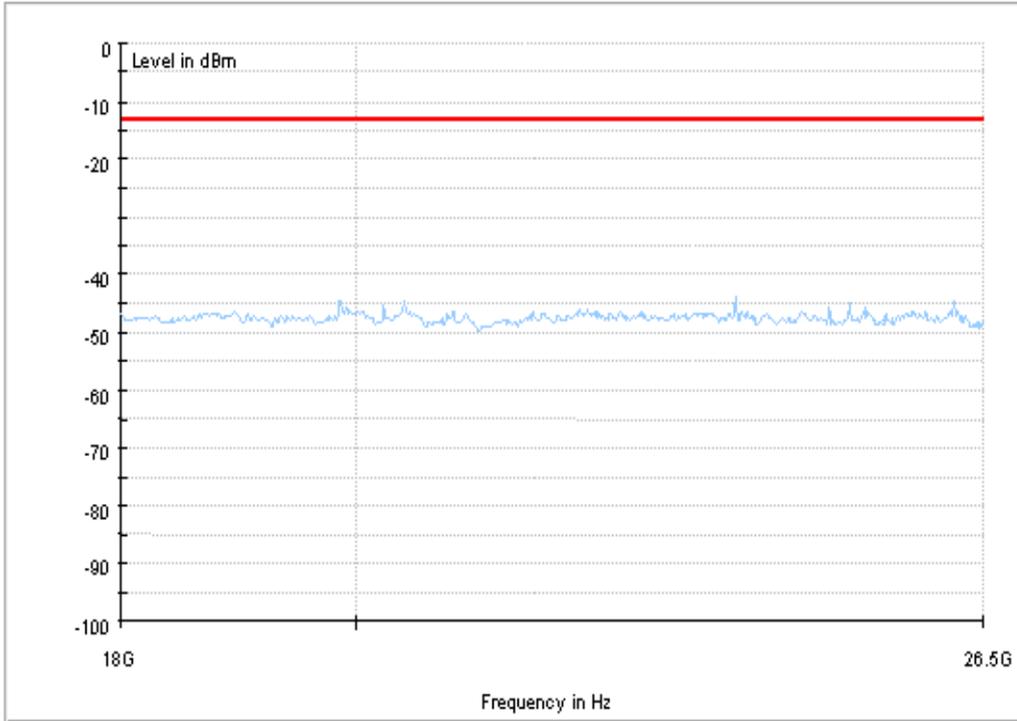


Copy of FCC PART24 LTE Band 2_L

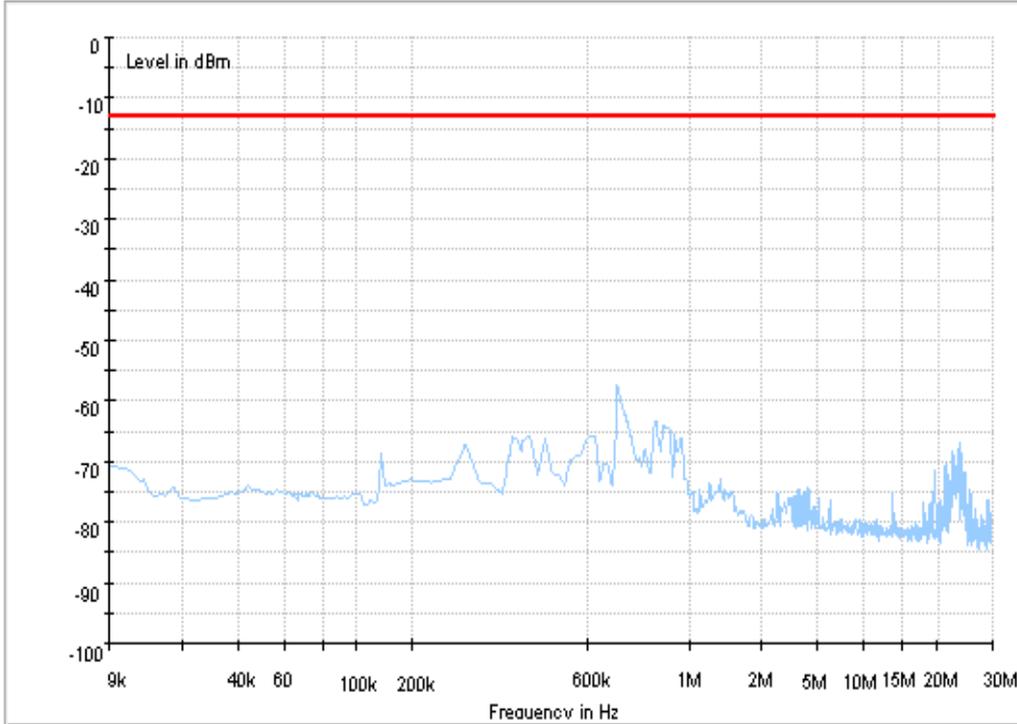


Copy of FCC PART24 LTE Band 2_H

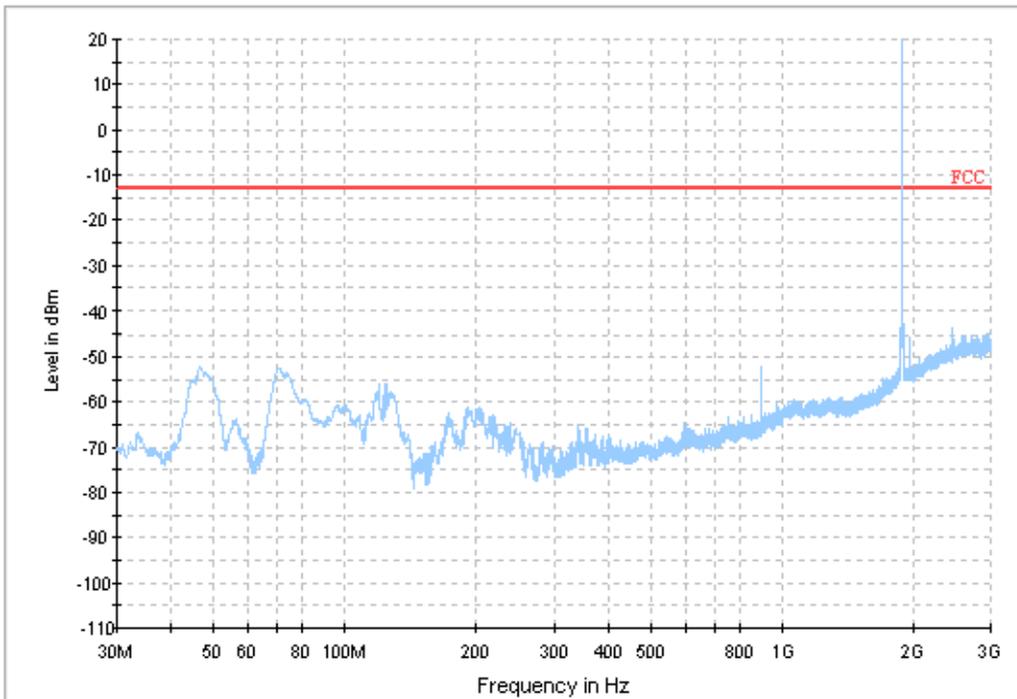




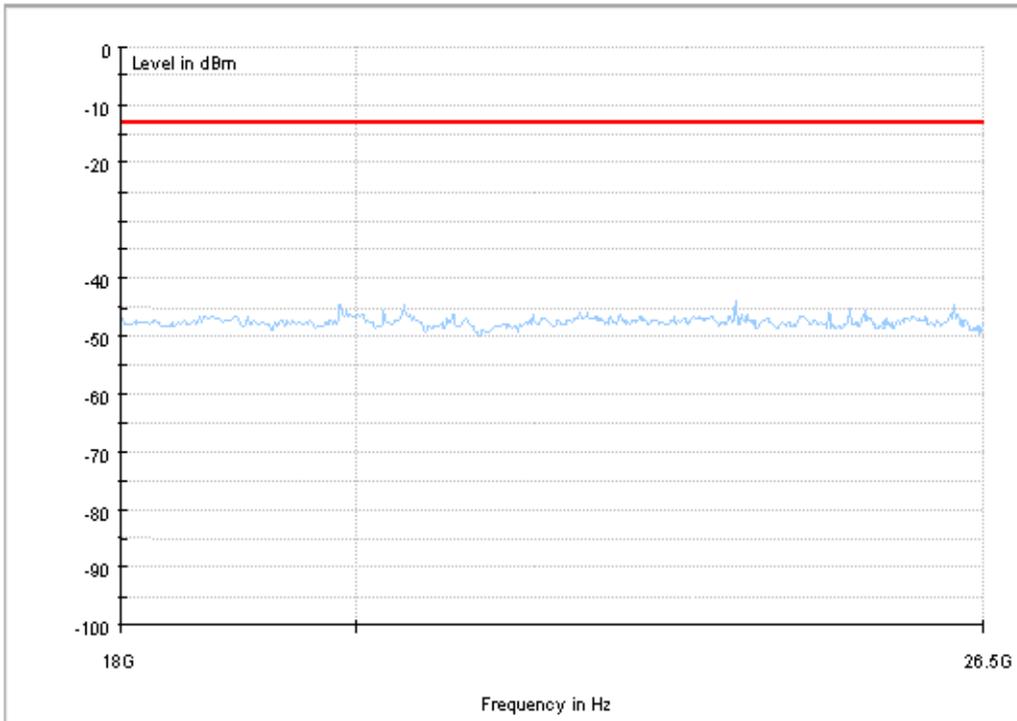
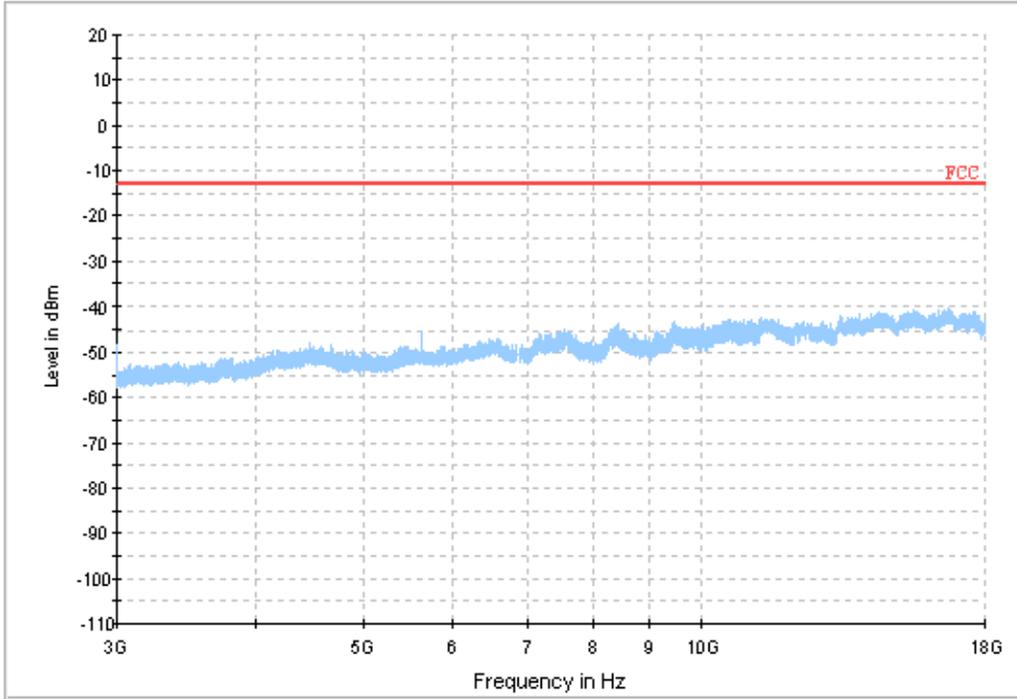
7.3.1.2 Test Bandwidth = 5



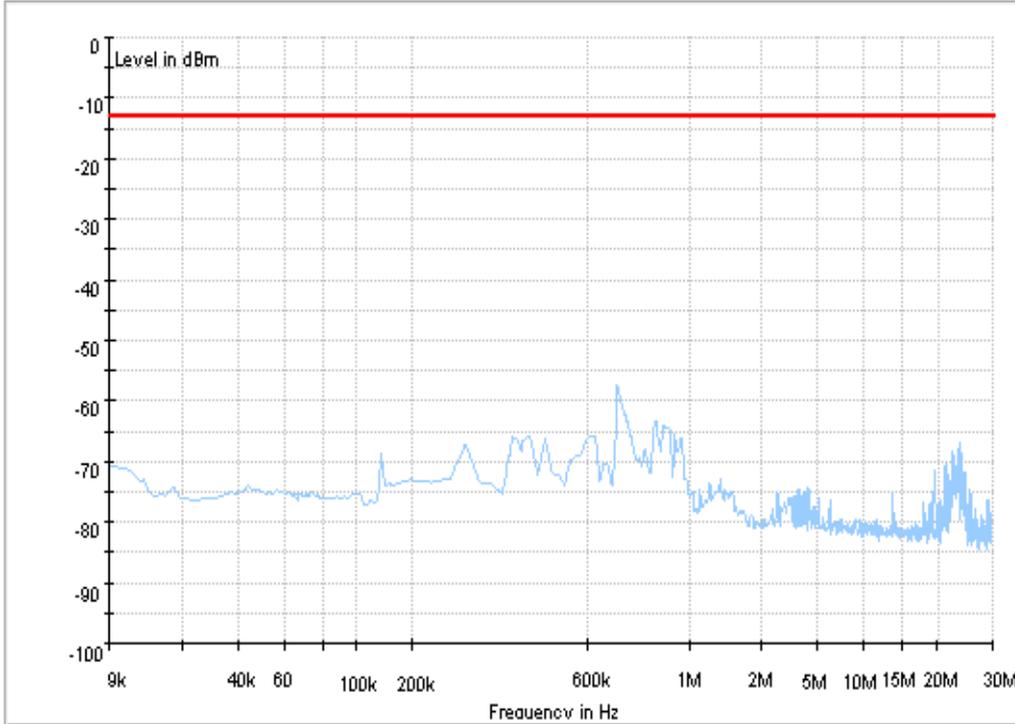
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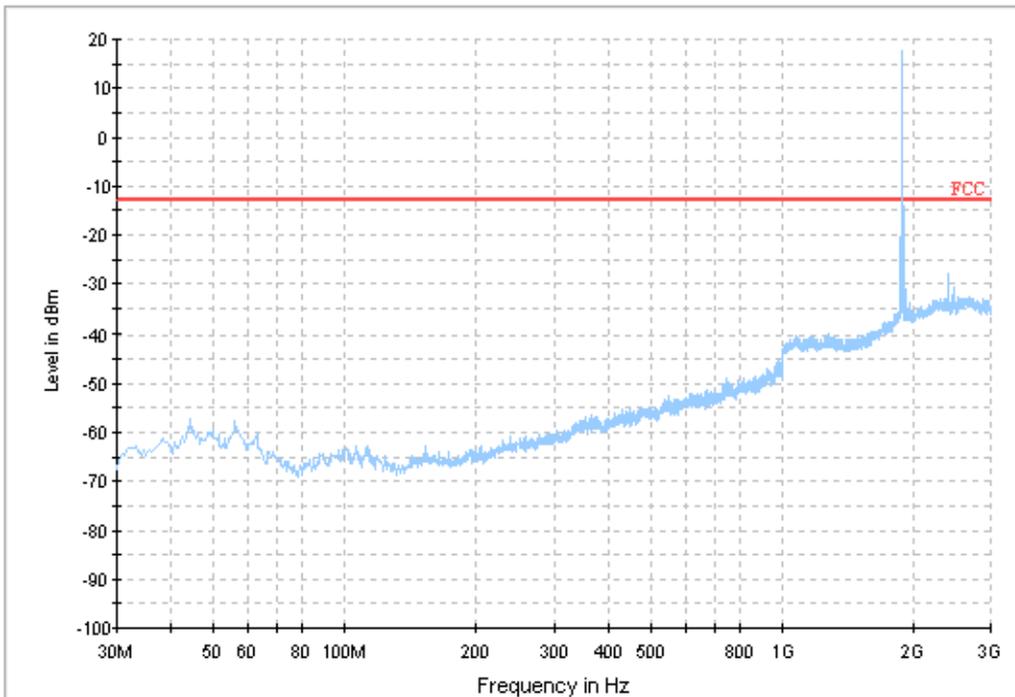
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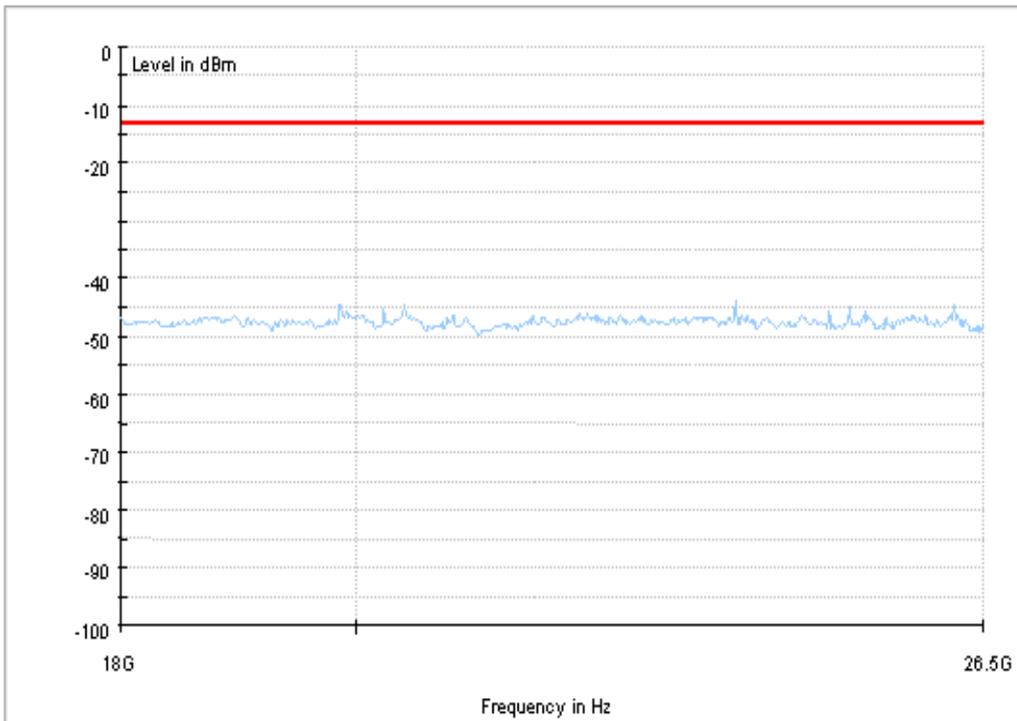
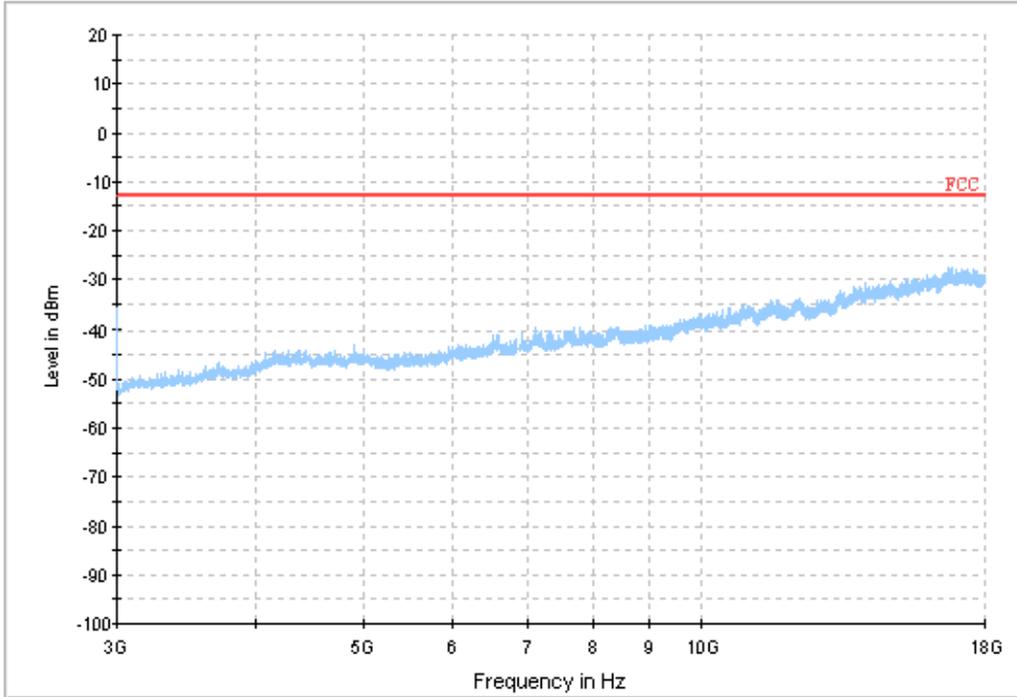
7.3.1.3 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

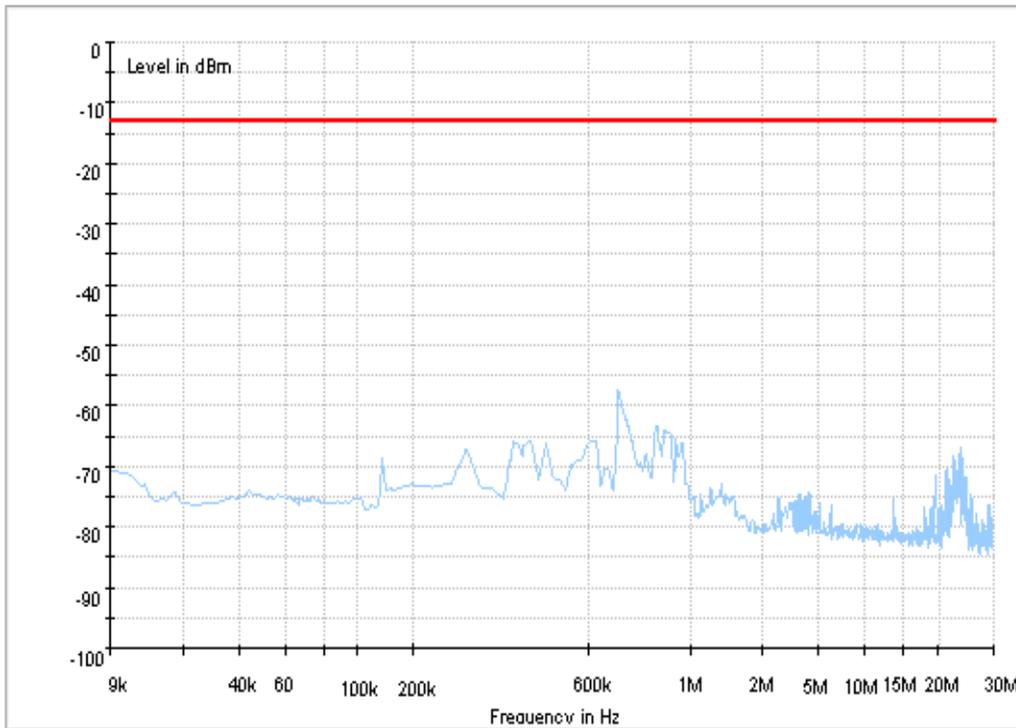


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

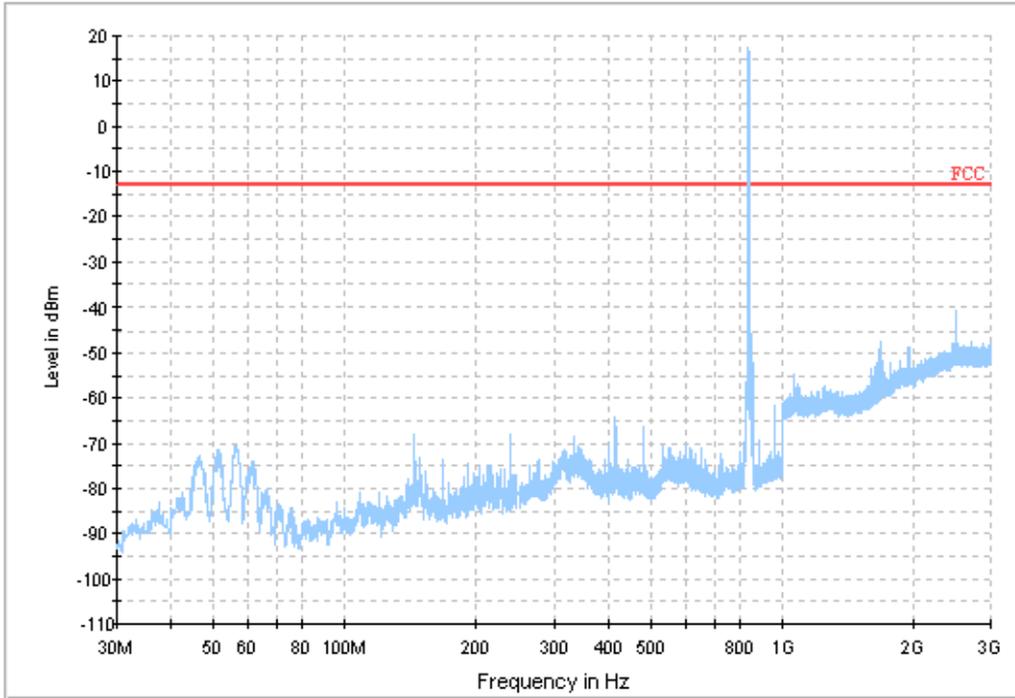


7.3.2 Test Band = BAND5

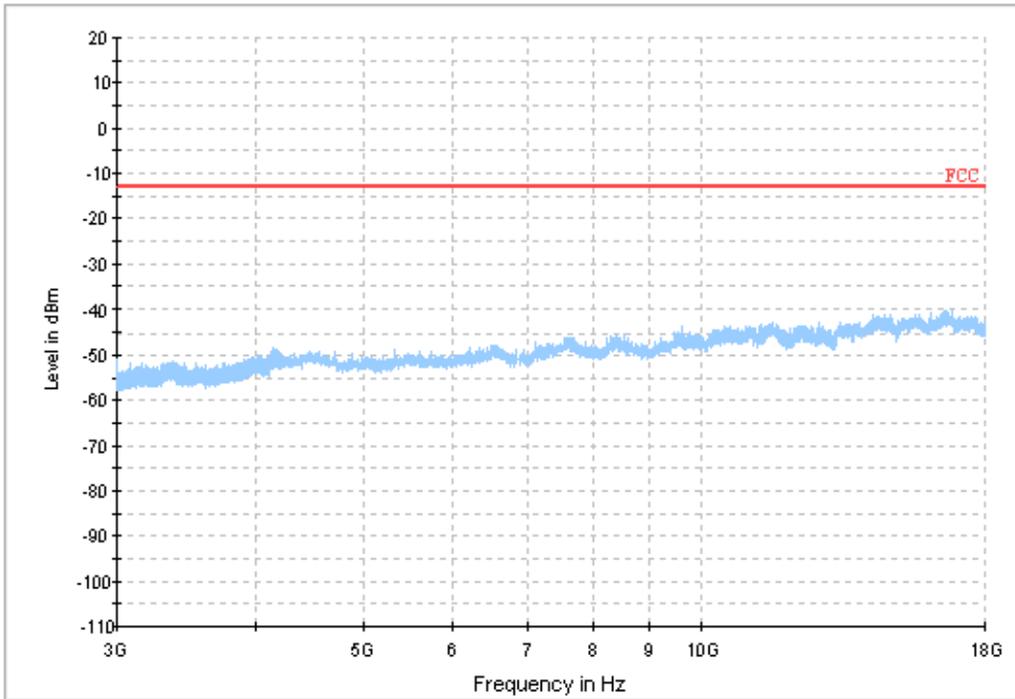
7.3.2.1 Test Bandwidth = 1.4



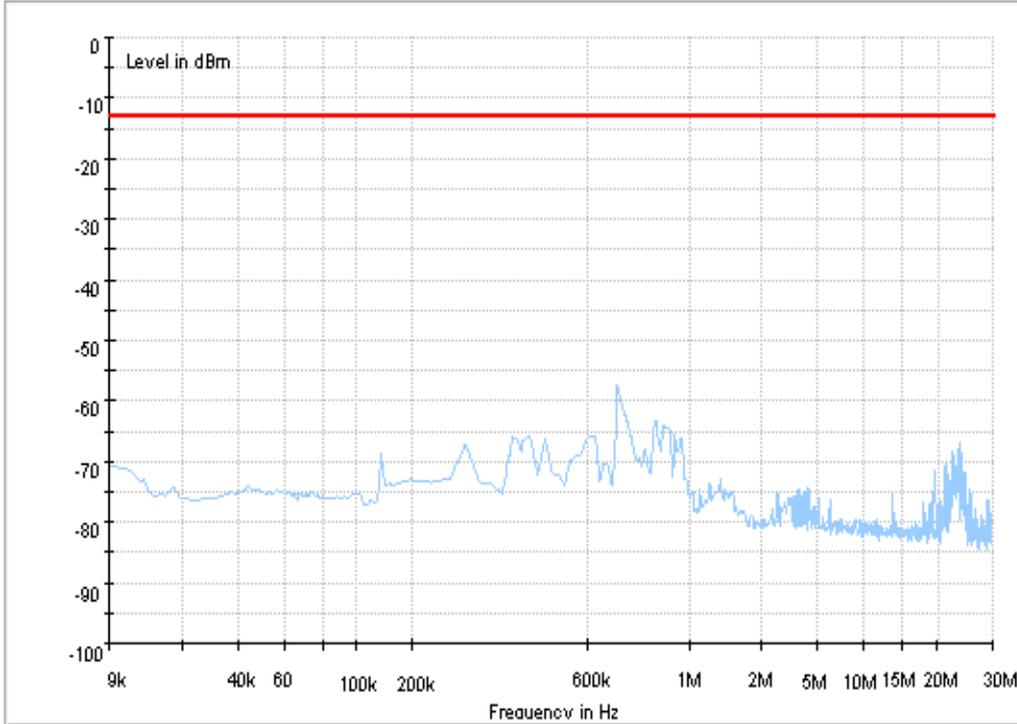
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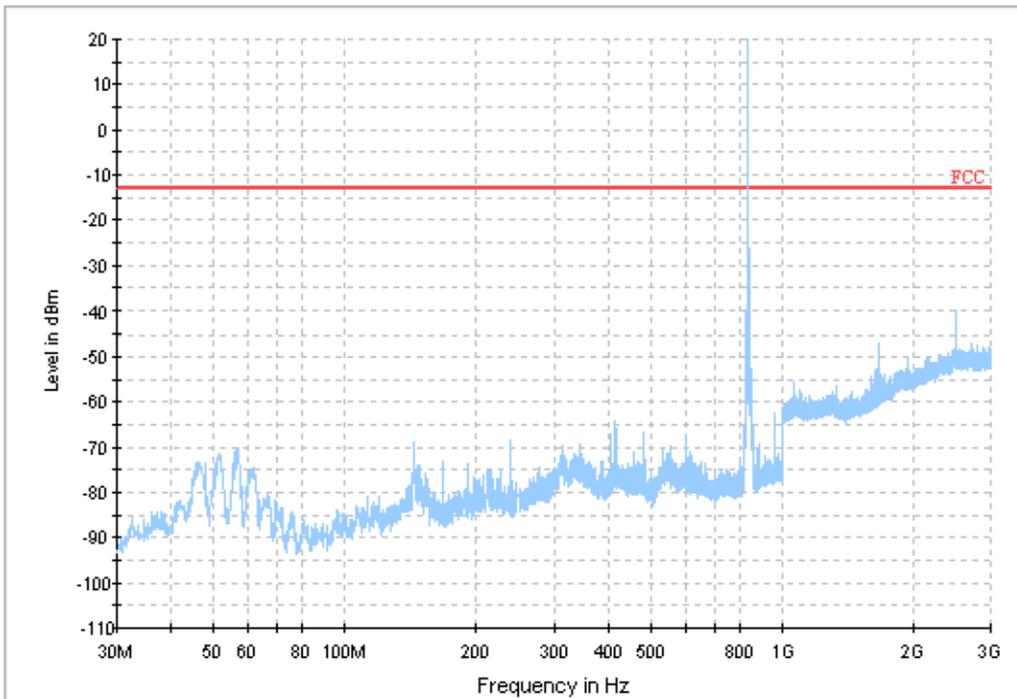
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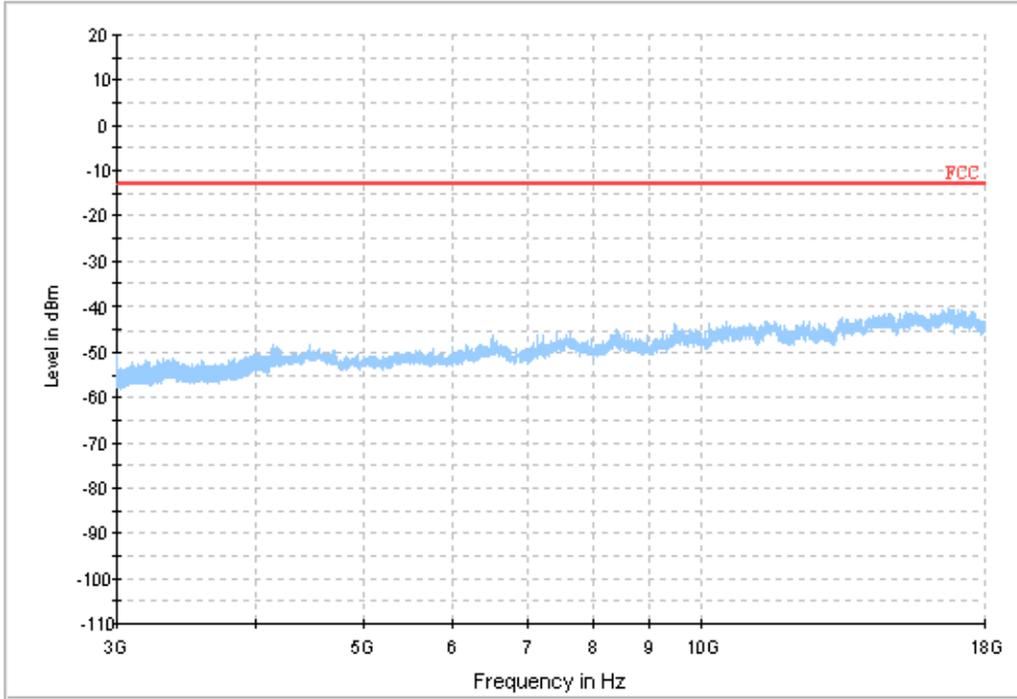
7.3.2.2 Test Bandwidth = 5



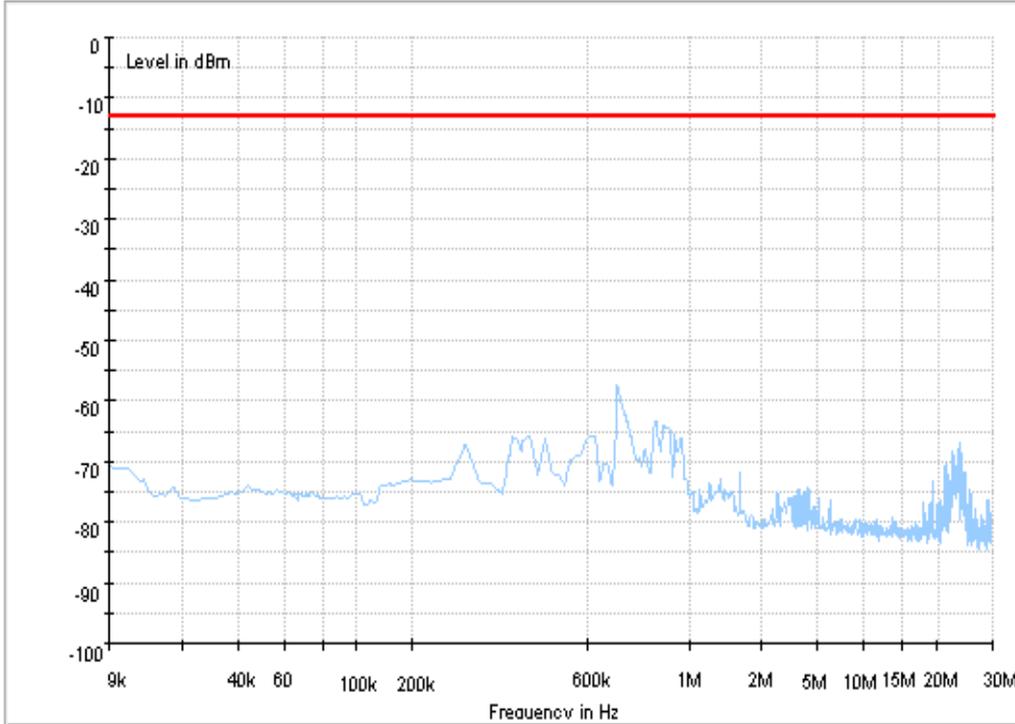
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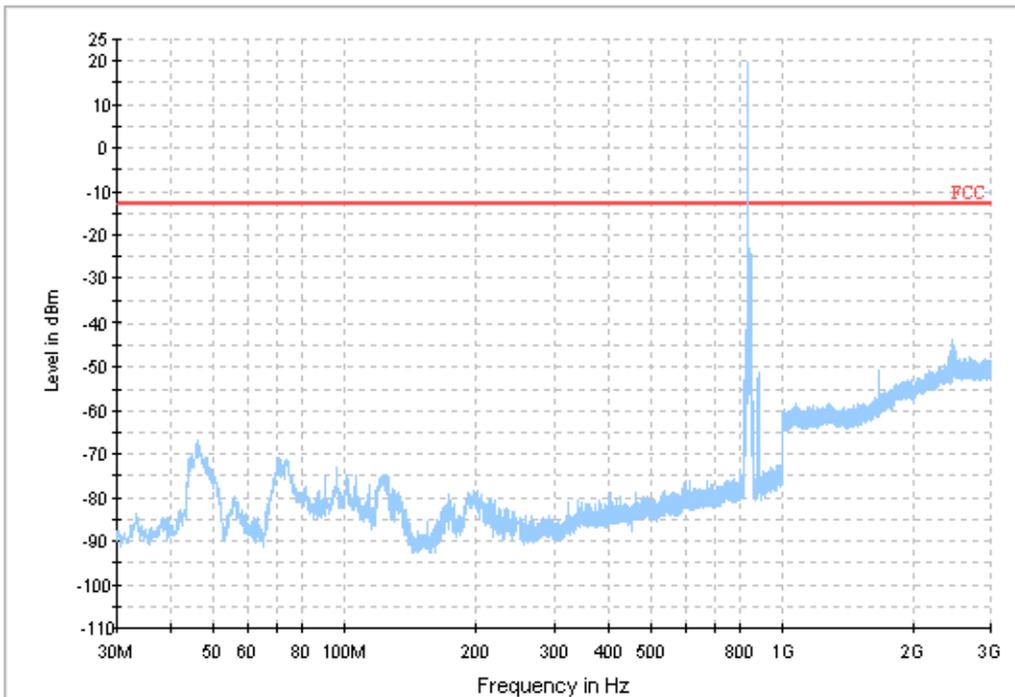
Copy of FCC PART22 LTE Band 5_H



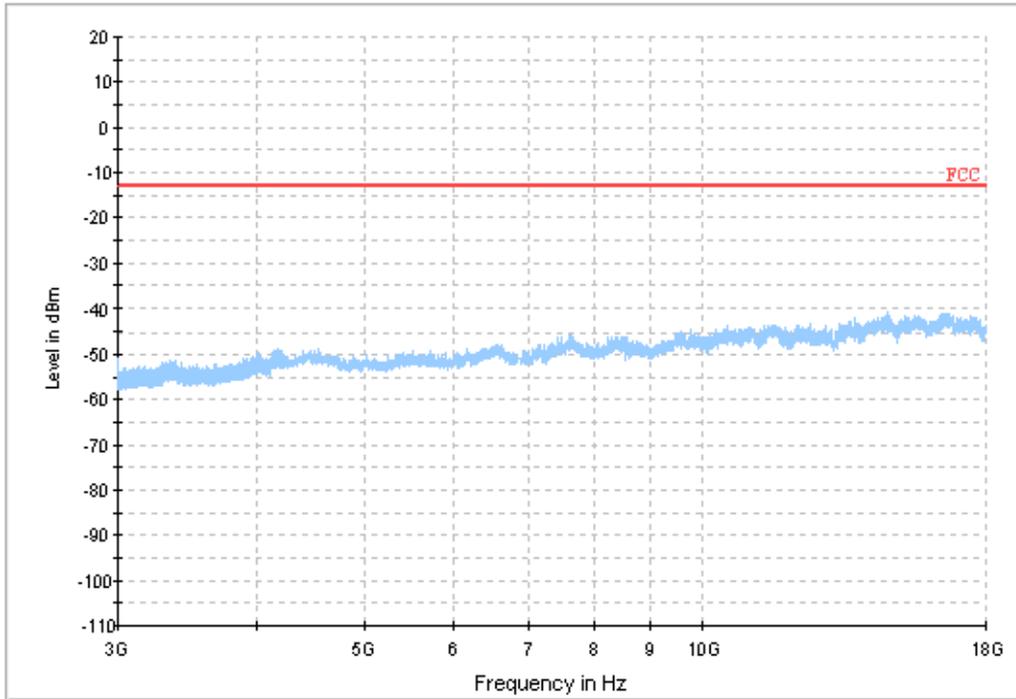
7.3.2.3 Test Bandwidth = 10



Copy of FCC PART22 LTE Band 5_L

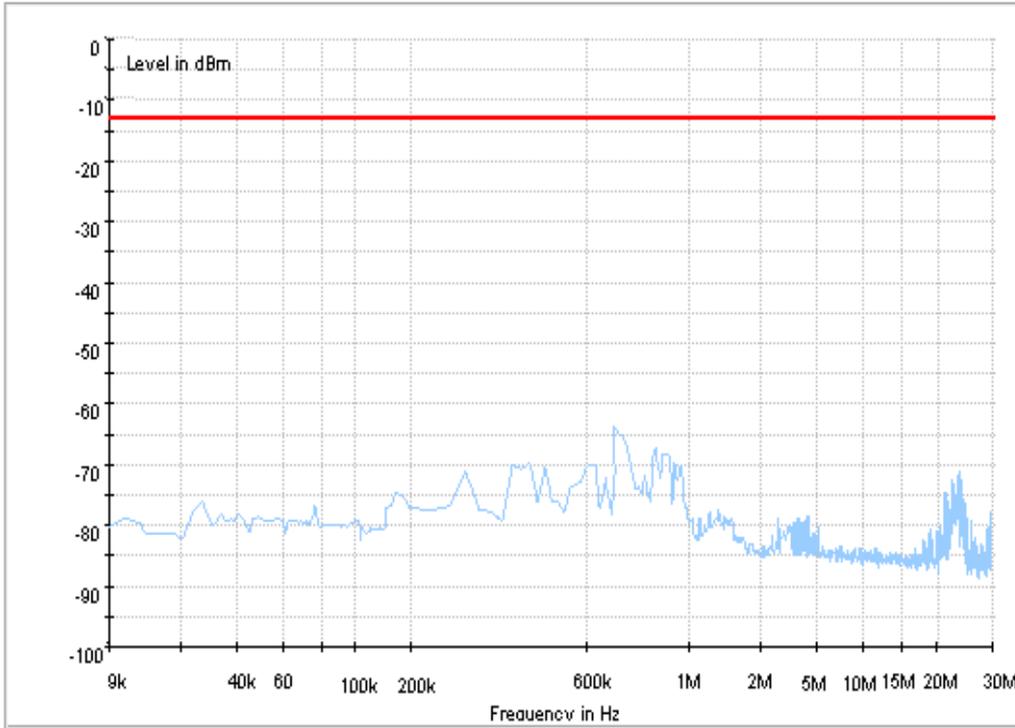


Copy of FCC PART22 LTE Band 5_H

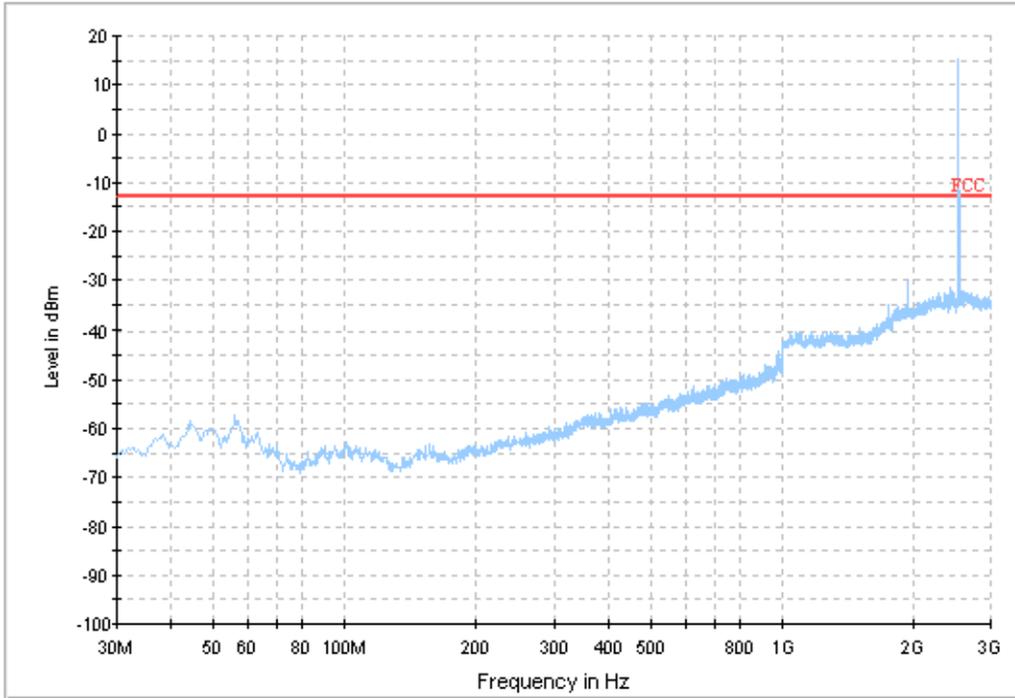


7.3.3 Test Band = BAND7

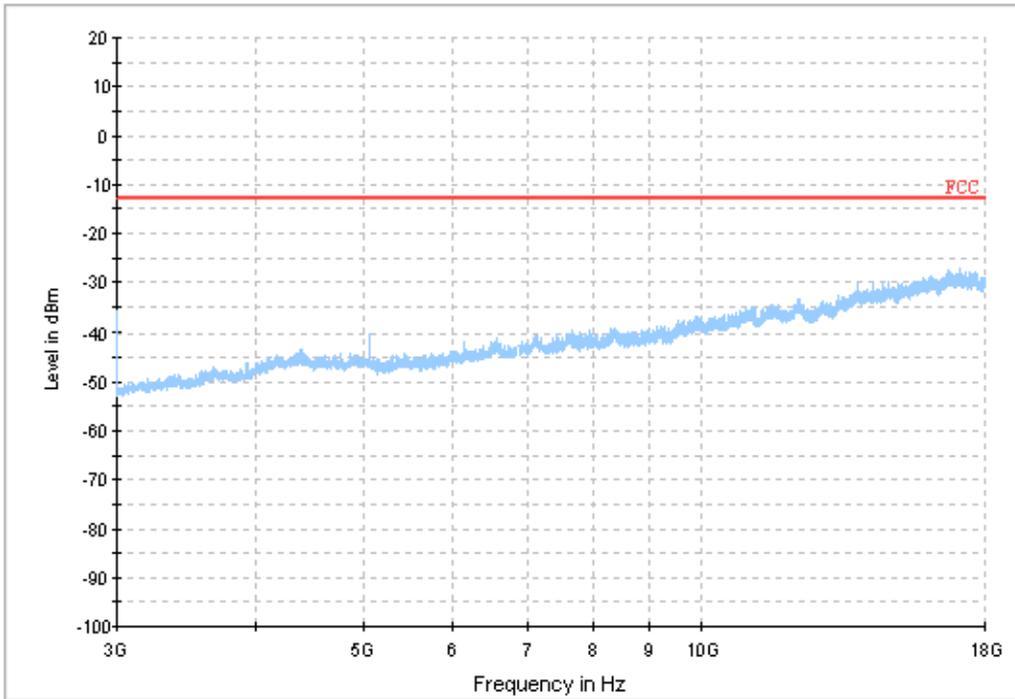
7.3.3.1 Test Bandwidth = 5

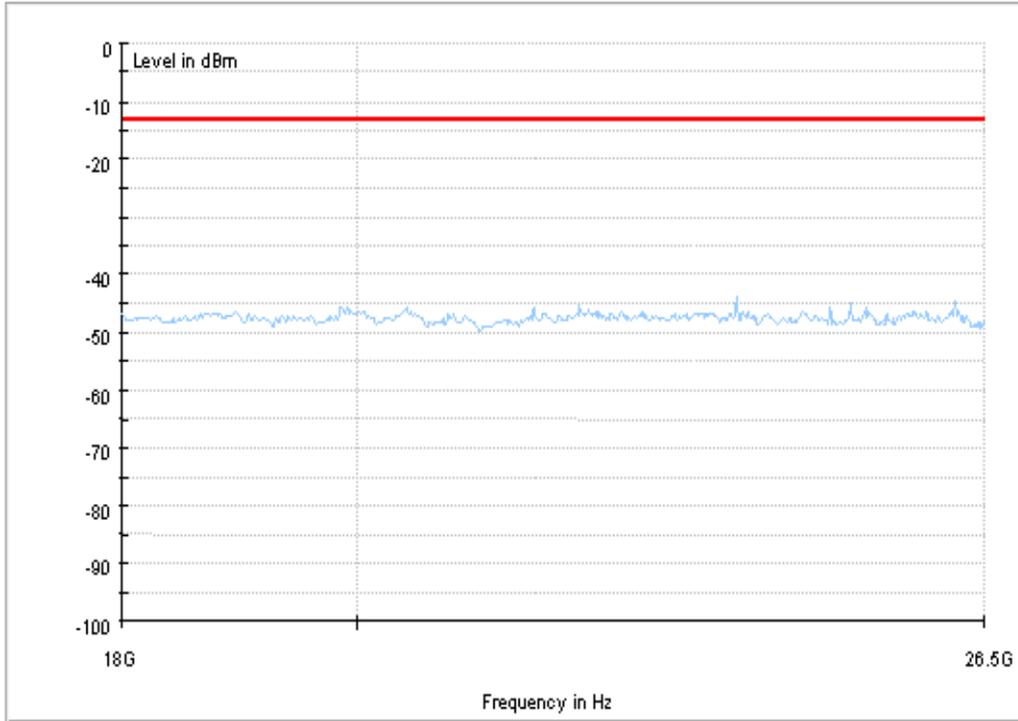


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

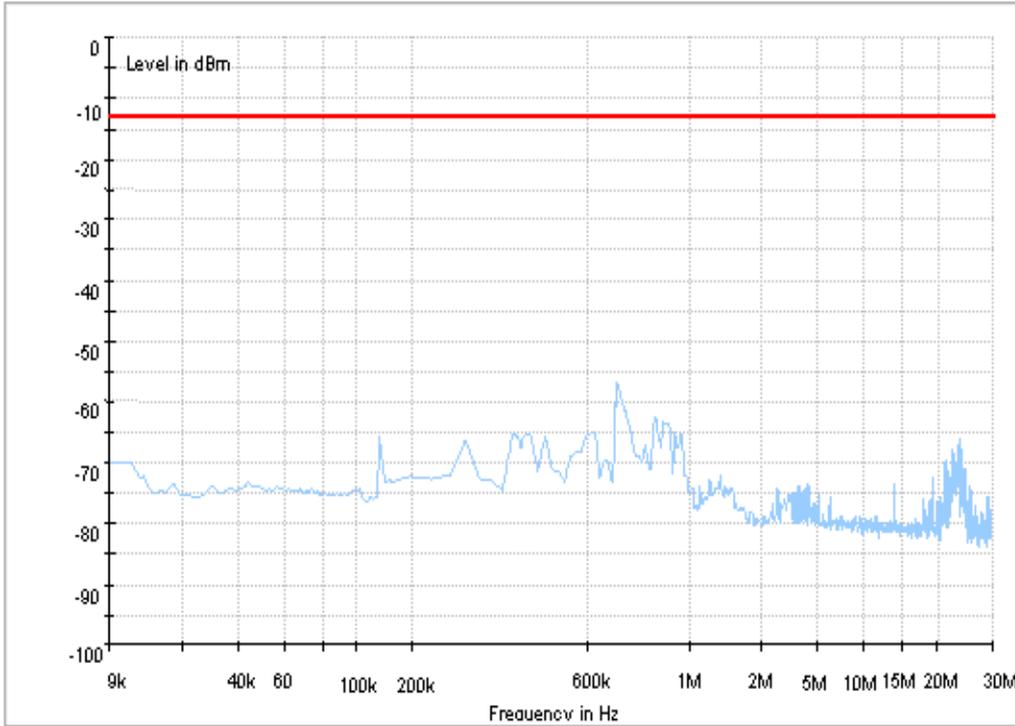


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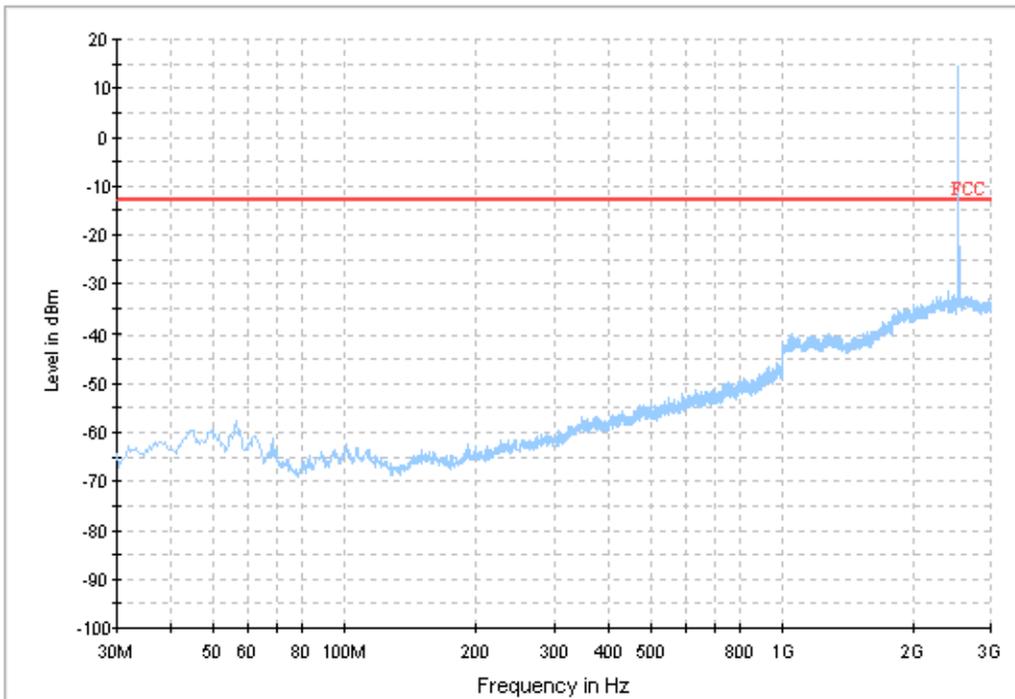




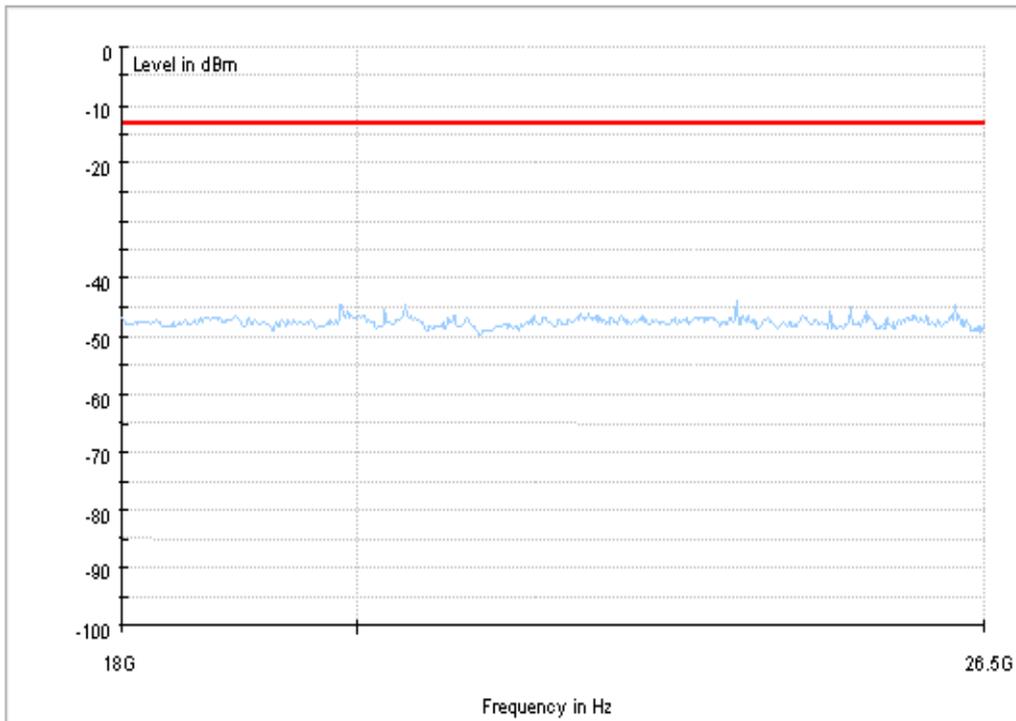
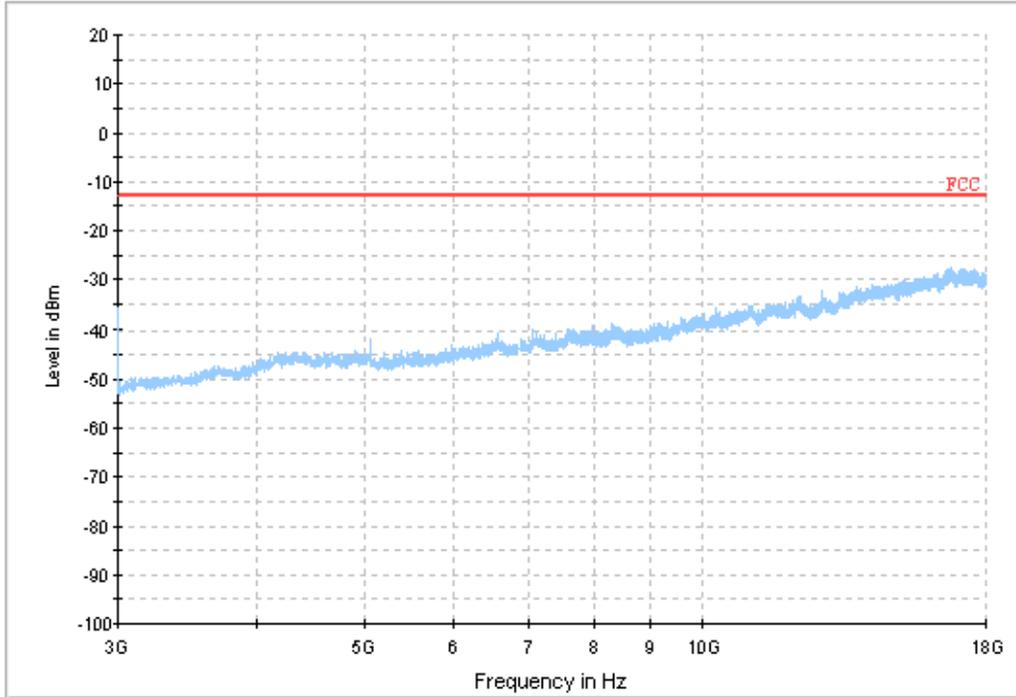
7.3.3.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-3.75	-0.00455	±2.5	PASS
				VN	-3.94	-0.00478	±2.5	PASS
				VH	-1.23	-0.00149	±2.5	PASS
		MCH	TN	VL	-11.36	-0.01358	±2.5	PASS
				VN	-0.52	-0.00062	±2.5	PASS
				VH	-3.55	-0.00424	±2.5	PASS
		HCH	TN	VL	-4.39	-0.00517	±2.5	PASS
				VN	-4.00	-0.00471	±2.5	PASS
				VH	-4.00	-0.00471	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-7.81	-0.00948	±2.5	PASS
				VN	-1.97	-0.00239	±2.5	PASS
				VH	-6.46	-0.00784	±2.5	PASS
		MCH	TN	VL	-5.36	-0.00641	±2.5	PASS
				VN	-3.78	-0.00452	±2.5	PASS
				VH	-9.98	-0.01193	±2.5	PASS
		HCH	TN	VL	-3.81	-0.00449	±2.5	PASS
				VN	-4.36	-0.00514	±2.5	PASS
				VH	-3.78	-0.00445	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-4.33	-0.00234	±2.5	PASS
				VN	-10.40	-0.00562	±2.5	PASS
				VH	-4.33	-0.00234	±2.5	PASS
		MCH	TN	VL	-2.20	-0.00117	±2.5	PASS
				VN	-8.20	-0.00436	±2.5	PASS
				VH	-12.72	-0.00677	±2.5	PASS
	HCH	TN	VL	-14.01	-0.00734	±2.5	PASS	
			VN	-10.01	-0.00524	±2.5	PASS	
			VH	-1.68	-0.00088	±2.5	PASS	
	GSM/TM2	LCH	TN	VL	-2.07	-0.00112	±2.5	PASS
				VN	-12.17	-0.00658	±2.5	PASS
				VH	-3.75	-0.00203	±2.5	PASS
MCH		TN	VL	-6.68	-0.00355	±2.5	PASS	



Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				VN	-20.02	-0.01065	±2.5	PASS
				VH	-4.20	-0.00223	±2.5	PASS
		HCH	TN	VL	-11.30	-0.00592	±2.5	PASS
				VN	0.06	0.00003	±2.5	PASS
				VH	-18.73	-0.00981	±2.5	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]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-4.97	-0.00603	±2.5	PASS
				-20	-8.52	-0.01034	±2.5	PASS
				-10	-8.27	-0.01003	±2.5	PASS
				0	-4.78	-0.0058	±2.5	PASS
				10	-2.39	-0.0029	±2.5	PASS
				20	-3.49	-0.00423	±2.5	PASS
				30	-0.52	-0.00063	±2.5	PASS
				40	-1.49	-0.00181	±2.5	PASS
				50	-1.10	-0.00133	±2.5	PASS
		MCH	VN	-30	0.77	0.00092	±2.5	PASS
				-20	-2.58	-0.00308	±2.5	PASS
				-10	-4.97	-0.00594	±2.5	PASS
				0	-5.29	-0.00632	±2.5	PASS
				10	-2.58	-0.00308	±2.5	PASS
				20	-2.84	-0.00339	±2.5	PASS
				30	-1.49	-0.00178	±2.5	PASS
				40	1.74	0.00208	±2.5	PASS
				50	0.19	0.00023	±2.5	PASS
		HCH	VN	-30	1.61	0.0019	±2.5	PASS
				-20	-0.26	-0.00031	±2.5	PASS
				-10	-0.45	-0.00053	±2.5	PASS
				0	-2.71	-0.00319	±2.5	PASS
				10	2.07	0.00244	±2.5	PASS
				20	-0.97	-0.00114	±2.5	PASS
	30			-2.58	-0.00304	±2.5	PASS	
	40			-2.20	-0.00259	±2.5	PASS	
	50			-5.88	-0.00693	±2.5	PASS	
	GSM/TM2	LCH	VN	-30	-3.87	-0.0047	±2.5	PASS
				-20	-3.71	-0.0045	±2.5	PASS
				-10	-1.68	-0.00204	±2.5	PASS
				0	-3.91	-0.00474	±2.5	PASS
				10	-6.68	-0.0081	±2.5	PASS
				20	-1.23	-0.00149	±2.5	PASS
				30	-8.85	-0.01074	±2.5	PASS
				40	-4.10	-0.00497	±2.5	PASS
				50	-3.52	-0.00427	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
		MCH	VN	-30	-5.52	-0.0066	±2.5	PASS
				-20	-7.43	-0.00888	±2.5	PASS
				-10	-0.36	-0.00043	±2.5	PASS
				0	0.84	0.001	±2.5	PASS
				10	-4.84	-0.00579	±2.5	PASS
				20	-8.52	-0.01018	±2.5	PASS
				30	-0.84	-0.001	±2.5	PASS
				40	-2.74	-0.00328	±2.5	PASS
				50	-3.65	-0.00436	±2.5	PASS
		HCH	VN	-30	-3.84	-0.00452	±2.5	PASS
				-20	-2.39	-0.00282	±2.5	PASS
				-10	0.77	0.00091	±2.5	PASS
				0	-1.52	-0.00179	±2.5	PASS
				10	-6.68	-0.00787	±2.5	PASS
				20	-1.78	-0.0021	±2.5	PASS
				30	-8.33	-0.00981	±2.5	PASS
				40	-10.98	-0.01294	±2.5	PASS
				50	-2.23	-0.00263	±2.5	PASS
GSM1900	GSM/TM1	LCH	VN	-30	-4.07	-0.0022	±2.5	PASS
				-20	-0.19	-0.0001	±2.5	PASS
				-10	-11.11	-0.006	±2.5	PASS
				0	-7.62	-0.00412	±2.5	PASS
				10	-14.40	-0.00778	±2.5	PASS
				20	-16.01	-0.00865	±2.5	PASS
				30	-0.77	-0.00042	±2.5	PASS
				40	-12.91	-0.00698	±2.5	PASS
				50	-0.26	-0.00014	±2.5	PASS
		MCH	VN	-30	-16.59	-0.00882	±2.5	PASS
				-20	-17.50	-0.00931	±2.5	PASS
				-10	-5.94	-0.00316	±2.5	PASS
				0	-10.91	-0.0058	±2.5	PASS
				10	-4.46	-0.00237	±2.5	PASS
				20	-5.49	-0.00292	±2.5	PASS
				30	6.20	0.0033	±2.5	PASS
				40	-7.30	-0.00388	±2.5	PASS
				50	-11.75	-0.00625	±2.5	PASS
		HCH	VN	-30	-3.68	-0.00193	±2.5	PASS
				-20	-6.78	-0.00355	±2.5	PASS
				-10	-1.16	-0.00061	±2.5	PASS
				0	-13.11	-0.00686	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				10	-11.04	-0.00578	±2.5	PASS
				20	-2.84	-0.00149	±2.5	PASS
				30	-11.30	-0.00592	±2.5	PASS
				40	-10.85	-0.00568	±2.5	PASS
				50	-6.20	-0.00325	±2.5	PASS
GSM1900	GSM/TM2	LCH	VN	-30	-19.66	-0.01063	±2.5	PASS
				-20	-9.56	-0.00517	±2.5	PASS
				-10	-5.71	-0.00309	±2.5	PASS
				0	-5.33	-0.00288	±2.5	PASS
				10	-4.68	-0.00253	±2.5	PASS
				20	-15.34	-0.00829	±2.5	PASS
				30	-12.62	-0.00682	±2.5	PASS
				40	-8.49	-0.00459	±2.5	PASS
				50	-16.47	-0.0089	±2.5	PASS
		MCH	VN	-30	-0.45	-0.00024	±2.5	PASS
				-20	-1.29	-0.00069	±2.5	PASS
				-10	1.68	0.00089	±2.5	PASS
				0	-6.55	-0.00348	±2.5	PASS
				10	-5.46	-0.0029	±2.5	PASS
				20	-17.79	-0.00946	±2.5	PASS
				30	-3.75	-0.00199	±2.5	PASS
				40	-15.59	-0.00829	±2.5	PASS
		50	-11.17	-0.00594	±2.5	PASS		
		HCH	VN	-30	-8.68	-0.00454	±2.5	PASS
				-20	2.52	0.00132	±2.5	PASS
				-10	-22.24	-0.01165	±2.5	PASS
				0	-2.29	-0.0012	±2.5	PASS
				10	-11.30	-0.00592	±2.5	PASS
				20	-10.82	-0.00567	±2.5	PASS
				30	-16.98	-0.00889	±2.5	PASS
				40	-2.71	-0.00142	±2.5	PASS
		50	-9.23	-0.00483	±2.5	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]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	1.77	0.00214	±2.5	PASS
				VN	3.88	0.0047	±2.5	PASS
				VH	5.28	0.00639	±2.5	PASS
		MCH	TN	VL	-2.70	-0.00323	±2.5	PASS
				VN	1.21	0.00145	±2.5	PASS
				VH	1.11	0.00133	±2.5	PASS
		HCH	TN	VL	-3.72	-0.00439	±2.5	PASS
				VN	-3.42	-0.00404	±2.5	PASS
				VH	-0.87	-0.00103	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-0.52	-0.00028	±2.5	PASS
				VN	-1.13	-0.00061	±2.5	PASS
				VH	1.46	0.00079	±2.5	PASS
		MCH	TN	VL	-6.64	-0.00353	±2.5	PASS
				VN	-5.57	-0.00296	±2.5	PASS
				VH	-6.01	-0.0032	±2.5	PASS
		HCH	TN	VL	-12.85	-0.00674	±2.5	PASS
				VN	-12.19	-0.00639	±2.5	PASS
				VH	-11.40	-0.00598	±2.5	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]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	3.80	0.0046	±2.5	PASS
				-20	1.91	0.00231	±2.5	PASS
				-10	3.94	0.00477	±2.5	PASS
				0	1.79	0.00217	±2.5	PASS
				10	3.74	0.00453	±2.5	PASS
				20	2.20	0.00266	±2.5	PASS
				30	3.80	0.0046	±2.5	PASS
				40	1.65	0.002	±2.5	PASS
				50	4.00	0.00484	±2.5	PASS
		MCH	VN	-30	1.69	0.00202	±2.5	PASS
				-20	0.75	0.0009	±2.5	PASS
				-10	2.33	0.00279	±2.5	PASS
				0	-1.05	-0.00126	±2.5	PASS
				10	-1.25	-0.00149	±2.5	PASS
				20	-1.11	-0.00133	±2.5	PASS
				30	0.17	0.0002	±2.5	PASS
				40	-0.20	-0.00024	±2.5	PASS
				50	0.26	0.00031	±2.5	PASS
		HCH	VN	-30	-1.02	-0.0012	±2.5	PASS
				-20	-1.77	-0.00209	±2.5	PASS
				-10	-3.01	-0.00356	±2.5	PASS
				0	1.07	0.00126	±2.5	PASS
				10	-4.01	-0.00474	±2.5	PASS
				20	-4.20	-0.00496	±2.5	PASS
				30	-2.32	-0.00274	±2.5	PASS
				40	-1.68	-0.00198	±2.5	PASS
				50	-1.05	-0.00124	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	-1.62	-0.00087	±2.5	PASS
				-20	0.06	0.00003	±2.5	PASS
				-10	1.21	0.00065	±2.5	PASS
				0	2.82	0.00152	±2.5	PASS
				10	-2.56	-0.00138	±2.5	PASS
				20	-2.99	-0.00161	±2.5	PASS
				30	-0.03	-0.00002	±2.5	PASS
				40	-1.97	-0.00106	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				50	1.43	0.00077	±2.5	PASS
		MCH	VN	-30	-5.28	-0.00281	±2.5	PASS
				-20	-5.37	-0.00286	±2.5	PASS
				-10	-4.21	-0.00224	±2.5	PASS
				0	-5.05	-0.00269	±2.5	PASS
				10	-4.68	-0.00249	±2.5	PASS
				20	-5.51	-0.00293	±2.5	PASS
				30	-6.99	-0.00372	±2.5	PASS
				40	-7.32	-0.00389	±2.5	PASS
				50	-4.91	-0.00261	±2.5	PASS
		HCH	VN	-30	-12.44	-0.00652	±2.5	PASS
				-20	-10.71	-0.00561	±2.5	PASS
				-10	-14.05	-0.00737	±2.5	PASS
				0	-12.53	-0.00657	±2.5	PASS
				10	-16.88	-0.00885	±2.5	PASS
				20	-12.01	-0.0063	±2.5	PASS
				30	-15.87	-0.00832	±2.5	PASS
				40	-14.04	-0.00736	±2.5	PASS
		50	-11.90	-0.00624	±2.5	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]	Limit [dBm]	Verdict
BAND2	LTE/TM1	1.4	LCH	TN	VL	-5.54	-0.00299	±2.5	PASS
					VN	4.84	0.00262	±2.5	PASS
					VH	-5.65	-0.00305	±2.5	PASS
			MCH	TN	VL	-3.59	-0.00191	±2.5	PASS
					VN	-17.04	-0.00906	±2.5	PASS
					VH	-10.86	-0.00578	±2.5	PASS
			HCH	TN	VL	5.11	0.00268	±2.5	PASS
					VN	-7.95	-0.00416	±2.5	PASS
					VH	-1.76	-0.00092	±2.5	PASS
		3	LCH	TN	VL	0.80	0.00043	±2.5	PASS
					VN	-12.96	-0.007	±2.5	PASS
					VH	-12.40	-0.0067	±2.5	PASS
			MCH	TN	VL	-13.82	-0.00735	±2.5	PASS
					VN	-14.51	-0.00772	±2.5	PASS
					VH	-7.88	-0.00419	±2.5	PASS
			HCH	TN	VL	-15.29	-0.00801	±2.5	PASS
					VN	-15.82	-0.00829	±2.5	PASS
					VH	-11.27	-0.00591	±2.5	PASS
		5	LCH	TN	VL	3.59	0.00194	±2.5	PASS
					VN	-7.70	-0.00416	±2.5	PASS
					VH	8.25	0.00445	±2.5	PASS
			MCH	TN	VL	3.98	0.00212	±2.5	PASS
					VN	-3.75	-0.00199	±2.5	PASS
					VH	-13.20	-0.00702	±2.5	PASS
			HCH	TN	VL	-15.01	-0.00787	±2.5	PASS
					VN	1.03	0.00054	±2.5	PASS
					VH	-13.69	-0.00718	±2.5	PASS
		10	LCH	TN	VL	-11.99	-0.00646	±2.5	PASS
					VN	-0.34	-0.00018	±2.5	PASS
					VH	-8.65	-0.00466	±2.5	PASS
MCH	TN		VL	-15.09	-0.00803	±2.5	PASS		
			VN	0.67	0.00036	±2.5	PASS		
			VH	-7.58	-0.00403	±2.5	PASS		
HCH	TN		VL	-3.26	-0.00171	±2.5	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict		
		15	LCH	TN	VN	9.10	0.00478	±2.5	PASS		
					VH	-1.53	-0.0008	±2.5	PASS		
					VL	-2.37	-0.00128	±2.5	PASS		
			MCH	TN	VN	-12.96	-0.00698	±2.5	PASS		
					VH	-4.36	-0.00235	±2.5	PASS		
					VL	0.74	0.00039	±2.5	PASS		
		HCH	TN	VN	-15.54	-0.00827	±2.5	PASS			
				VH	0.57	0.0003	±2.5	PASS			
				VL	-3.13	-0.00165	±2.5	PASS			
		20	LCH	TN	VN	-14.09	-0.00741	±2.5	PASS		
					VH	-0.24	-0.00013	±2.5	PASS		
					VL	-5.99	-0.00322	±2.5	PASS		
			MCH	TN	VN	-11.32	-0.00609	±2.5	PASS		
					VH	-3.29	-0.00177	±2.5	PASS		
					VL	-10.11	-0.00538	±2.5	PASS		
			HCH	TN	VN	-21.34	-0.01135	±2.5	PASS		
					VH	-5.87	-0.00312	±2.5	PASS		
					VL	-8.20	-0.00432	±2.5	PASS		
			LTE/TM2	1.4	LCH	TN	VN	-6.68	-0.00361	±2.5	PASS
							VH	-0.83	-0.00045	±2.5	PASS
							VL	6.57	0.00355	±2.5	PASS
		MCH			TN	VN	-2.02	-0.00107	±2.5	PASS	
						VH	-13.13	-0.00698	±2.5	PASS	
						VL	-10.63	-0.00565	±2.5	PASS	
		HCH			TN	VN	-5.38	-0.00282	±2.5	PASS	
						VH	-2.88	-0.00151	±2.5	PASS	
						VL	5.02	0.00263	±2.5	PASS	
		3			LCH	TN	VN	2.78	0.0015	±2.5	PASS
							VH	-6.17	-0.00333	±2.5	PASS
							VL	-16.59	-0.00896	±2.5	PASS
					MCH	TN	VN	-6.81	-0.00362	±2.5	PASS
							VH	-8.21	-0.00437	±2.5	PASS
							VL	-12.99	-0.00691	±2.5	PASS
		HCH			TN	VN	-2.06	-0.00108	±2.5	PASS	
						VH	-15.74	-0.00825	±2.5	PASS	
						VL	-0.62	-0.00032	±2.5	PASS	
5	LCH	TN	VL	-9.20	-0.00497	±2.5	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
			MCH	TN	VN	-6.25	-0.00337	±2.5	PASS
					VH	-1.24	-0.00067	±2.5	PASS
					VL	-15.06	-0.00801	±2.5	PASS
					VN	-18.55	-0.00987	±2.5	PASS
					VH	3.22	0.00171	±2.5	PASS
					VH	3.22	0.00171	±2.5	PASS
			HCH	TN	VL	-4.79	-0.00251	±2.5	PASS
					VN	-13.55	-0.0071	±2.5	PASS
					VH	0.66	0.00035	±2.5	PASS
					VH	0.66	0.00035	±2.5	PASS
					VH	0.66	0.00035	±2.5	PASS
					VH	0.66	0.00035	±2.5	PASS
		10	LCH	TN	VL	-3.18	-0.00171	±2.5	PASS
					VN	-10.01	-0.0054	±2.5	PASS
					VH	-15.55	-0.00838	±2.5	PASS
					VH	-15.55	-0.00838	±2.5	PASS
					VH	-15.55	-0.00838	±2.5	PASS
					VH	-15.55	-0.00838	±2.5	PASS
			MCH	TN	VL	-9.36	-0.00498	±2.5	PASS
					VN	-11.59	-0.00616	±2.5	PASS
					VH	-12.00	-0.00638	±2.5	PASS
					VH	-12.00	-0.00638	±2.5	PASS
					VH	-12.00	-0.00638	±2.5	PASS
					VH	-12.00	-0.00638	±2.5	PASS
		HCH	TN	VL	-4.26	-0.00224	±2.5	PASS	
				VN	-6.90	-0.00362	±2.5	PASS	
				VH	-9.43	-0.00495	±2.5	PASS	
				VH	-9.43	-0.00495	±2.5	PASS	
				VH	-9.43	-0.00495	±2.5	PASS	
				VH	-9.43	-0.00495	±2.5	PASS	
		15	LCH	TN	VL	-16.69	-0.00899	±2.5	PASS
					VN	-0.84	-0.00045	±2.5	PASS
					VH	-11.16	-0.00601	±2.5	PASS
					VH	-11.16	-0.00601	±2.5	PASS
					VH	-11.16	-0.00601	±2.5	PASS
					VH	-11.16	-0.00601	±2.5	PASS
MCH	TN		VL	-1.07	-0.00057	±2.5	PASS		
			VN	-11.10	-0.0059	±2.5	PASS		
			VH	-18.07	-0.00961	±2.5	PASS		
			VH	-18.07	-0.00961	±2.5	PASS		
			VH	-18.07	-0.00961	±2.5	PASS		
			VH	-18.07	-0.00961	±2.5	PASS		
HCH	TN	VL	-8.58	-0.00451	±2.5	PASS			
		VN	-13.05	-0.00686	±2.5	PASS			
		VH	-15.84	-0.00833	±2.5	PASS			
		VH	-15.84	-0.00833	±2.5	PASS			
		VH	-15.84	-0.00833	±2.5	PASS			
		VH	-15.84	-0.00833	±2.5	PASS			
20	LCH	TN	VL	-3.42	-0.00184	±2.5	PASS		
			VN	-11.01	-0.00592	±2.5	PASS		
			VH	-9.68	-0.0052	±2.5	PASS		
			VH	-9.68	-0.0052	±2.5	PASS		
			VH	-9.68	-0.0052	±2.5	PASS		
			VH	-9.68	-0.0052	±2.5	PASS		
	MCH	TN	VL	-23.96	-0.01274	±2.5	PASS		
			VN	-7.15	-0.0038	±2.5	PASS		
			VH	-15.69	-0.00835	±2.5	PASS		
			VH	-15.69	-0.00835	±2.5	PASS		
			VH	-15.69	-0.00835	±2.5	PASS		
			VH	-15.69	-0.00835	±2.5	PASS		
HCH	TN	VL	-3.43	-0.00181	±2.5	PASS			
		VN	-13.50	-0.00711	±2.5	PASS			
		VH	-14.12	-0.00743	±2.5	PASS			
		VH	-14.12	-0.00743	±2.5	PASS			
		VH	-14.12	-0.00743	±2.5	PASS			
		VH	-14.12	-0.00743	±2.5	PASS			
BAND5	LTE/TM1	1.4	LCH	TN	VL	-0.14	-0.00017	±2.5	PASS
					VN	0.43	0.00052	±2.5	PASS
					VH	-0.54	-0.00065	±2.5	PASS
					VH	-0.54	-0.00065	±2.5	PASS
					VH	-0.54	-0.00065	±2.5	PASS
					VH	-0.54	-0.00065	±2.5	PASS
			MCH	TN	VL	0.49	0.00059	±2.5	PASS
					VH	0.49	0.00059	±2.5	PASS
					VH	0.49	0.00059	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
		3			VN	0.66	0.00079	±2.5	PASS
					VH	1.80	0.00215	±2.5	PASS
			HCH	TN	VL	-2.89	-0.00341	±2.5	PASS
					VN	-2.55	-0.00301	±2.5	PASS
			VH		VL	-3.93	-0.00463	±2.5	PASS
					VN	-2.55	-0.00309	±2.5	PASS
		5	LCH	TN	VN	-1.85	-0.00224	±2.5	PASS
					VH	-3.55	-0.0043	±2.5	PASS
			MCH	TN	VL	0.46	0.00055	±2.5	PASS
					VN	0.43	0.00051	±2.5	PASS
			VH		VL	3.08	0.00368	±2.5	PASS
					VN	-1.14	-0.00135	±2.5	PASS
		10	HCH	TN	VN	-0.66	-0.00078	±2.5	PASS
					VH	-1.77	-0.00209	±2.5	PASS
			LCH	TN	VL	-1.52	-0.00184	±2.5	PASS
					VN	-0.34	-0.00041	±2.5	PASS
			VH		VL	0.09	0.00011	±2.5	PASS
					VN	1.40	0.00167	±2.5	PASS
		1.4	MCH	TN	VN	1.09	0.0013	±2.5	PASS
					VH	1.29	0.00154	±2.5	PASS
			HCH	TN	VL	-1.60	-0.00189	±2.5	PASS
					VN	-2.49	-0.00294	±2.5	PASS
			VH		VL	-1.89	-0.00223	±2.5	PASS
					VN	-0.83	-0.001	±2.5	PASS
		LTE/TM2	LCH	TN	VN	2.16	0.00261	±2.5	PASS
					VH	0.14	0.00017	±2.5	PASS
			MCH	TN	VL	0.36	0.00043	±2.5	PASS
					VN	0.56	0.00067	±2.5	PASS
			VH		VL	0.72	0.00086	±2.5	PASS
					VN	-0.26	-0.00031	±2.5	PASS
		HCH	TN	VN	0.29	0.00034	±2.5	PASS	
				VH	0.50	0.00059	±2.5	PASS	
		1.4	LCH	TN	VL	-0.79	-0.00096	±2.5	PASS
					VN	0.57	0.00069	±2.5	PASS
			VH		VL	0.94	0.00114	±2.5	PASS
					VN	-0.60	-0.00072	±2.5	PASS
			MCH	TN	VN	-0.07	-0.00008	±2.5	PASS
					VH	-0.64	-0.00077	±2.5	PASS
		HCH	TN	VL	-0.92	-0.00108	±2.5	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					VN	-1.53	-0.0018	±2.5	PASS
					VH	-1.33	-0.00157	±2.5	PASS
		3	LCH	TN	VL	-2.59	-0.00314	±2.5	PASS
					VN	-3.20	-0.00388	±2.5	PASS
					VH	-2.49	-0.00302	±2.5	PASS
			MCH	TN	VL	0.09	0.00011	±2.5	PASS
					VN	0.43	0.00051	±2.5	PASS
					VH	-1.52	-0.00182	±2.5	PASS
			HCH	TN	VL	0.09	0.00011	±2.5	PASS
					VN	-1.30	-0.00153	±2.5	PASS
					VH	-2.35	-0.00277	±2.5	PASS
		5	LCH	TN	VL	0.20	0.00024	±2.5	PASS
					VN	0.26	0.00031	±2.5	PASS
					VH	-0.24	-0.00029	±2.5	PASS
			MCH	TN	VL	-0.24	-0.00029	±2.5	PASS
					VN	0.73	0.00087	±2.5	PASS
					VH	0.24	0.00029	±2.5	PASS
			HCH	TN	VL	-0.19	-0.00022	±2.5	PASS
					VN	-2.23	-0.00263	±2.5	PASS
					VH	1.77	0.00209	±2.5	PASS
		10	LCH	TN	VL	-1.29	-0.00156	±2.5	PASS
					VN	0.44	0.00053	±2.5	PASS
					VH	0.30	0.00036	±2.5	PASS
			MCH	TN	VL	-1.23	-0.00147	±2.5	PASS
					VN	0.63	0.00075	±2.5	PASS
					VH	-0.76	-0.00091	±2.5	PASS
			HCH	TN	VL	1.42	0.00168	±2.5	PASS
					VN	-6.87	-0.00814	±2.5	PASS
					VH	-4.48	-0.00531	±2.5	PASS
		BAND7	LTE/TM1	5	LCH	TN	VL	-10.39	-0.00415
VN	-8.81						-0.00352	±2.5	PASS
VH	-12.50						-0.005	±2.5	PASS
MCH	TN				VL	-4.29	-0.00169	±2.5	PASS
					VN	-1.37	-0.00054	±2.5	PASS
					VH	-3.33	-0.00131	±2.5	PASS
HCH	TN				VL	1.82	0.00071	±2.5	PASS
					VN	-6.37	-0.00248	±2.5	PASS
					VH	4.88	0.0019	±2.5	PASS
10	LCH			TN	VL	-2.86	-0.00114	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict	
	LTE/TM2	15	MCH	TN	VN	-5.54	-0.00221	±2.5	PASS	
					VH	-3.49	-0.00139	±2.5	PASS	
					VL	-5.56	-0.00219	±2.5	PASS	
					VN	-7.75	-0.00306	±2.5	PASS	
					VH	0.77	0.0003	±2.5	PASS	
					VL	3.50	0.00136	±2.5	PASS	
			HCH	TN	VN	-9.77	-0.00381	±2.5	PASS	
					VH	3.08	0.0012	±2.5	PASS	
					VL	0.80	0.00032	±2.5	PASS	
					VN	1.37	0.00055	±2.5	PASS	
					VH	0.21	0.00008	±2.5	PASS	
					VL	-7.42	-0.00293	±2.5	PASS	
		MCH	TN	VN	-12.82	-0.00506	±2.5	PASS		
				VH	-16.18	-0.00638	±2.5	PASS		
				VL	-8.20	-0.0032	±2.5	PASS		
				VN	-5.34	-0.00208	±2.5	PASS		
				VH	-6.32	-0.00247	±2.5	PASS		
				VL	-13.16	-0.00524	±2.5	PASS		
		LCH	TN	VN	-16.69	-0.00665	±2.5	PASS		
				VH	-15.54	-0.00619	±2.5	PASS		
				VL	-9.68	-0.00382	±2.5	PASS		
				VN	-0.29	-0.00011	±2.5	PASS		
				VH	3.23	0.00127	±2.5	PASS		
				VL	-11.84	-0.00462	±2.5	PASS		
		HCH	TN	VN	9.34	0.00365	±2.5	PASS		
				VH	-2.35	-0.00092	±2.5	PASS		
				VL	-19.81	-0.00792	±2.5	PASS		
				VN	-19.14	-0.00765	±2.5	PASS		
				VH	-21.79	-0.00871	±2.5	PASS		
				VL	-7.17	-0.00283	±2.5	PASS		
		MCH	TN	VN	0.84	0.00033	±2.5	PASS		
				VH	6.88	0.00271	±2.5	PASS		
				VL	-0.16	-0.00006	±2.5	PASS		
				VN	0.59	0.00023	±2.5	PASS		
				VH	1.40	0.00055	±2.5	PASS		
				VL	-0.07	-0.00003	±2.5	PASS		
		10	LCH	TN	VN	-9.67	-0.00386	±2.5	PASS	
					VH	-14.52	-0.0058	±2.5	PASS	
					VL	5.92	0.00234	±2.5	PASS	
				MCH	TN	VL	5.92	0.00234	±2.5	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [dBm]	Verdict
					VN	0.17	0.00007	±2.5	PASS
					VH	-5.35	-0.00211	±2.5	PASS
			HCH	TN	VL	9.68	0.00377	±2.5	PASS
					VN	5.46	0.00213	±2.5	PASS
					VH	0.13	0.00005	±2.5	PASS
					VL	8.47	0.00338	±2.5	PASS
		LCH	TN	VN	-11.77	-0.00469	±2.5	PASS	
				VH	11.16	0.00445	±2.5	PASS	
				VL	6.65	0.00262	±2.5	PASS	
		MCH	TN	VN	-4.94	-0.00195	±2.5	PASS	
				VH	-10.69	-0.00422	±2.5	PASS	
				VL	-12.53	-0.00489	±2.5	PASS	
		HCH	TN	VN	-23.23	-0.00907	±2.5	PASS	
				VH	5.84	0.00228	±2.5	PASS	
				VL	-1.44	-0.00057	±2.5	PASS	
		15	LCH	TN	VN	-5.87	-0.00234	±2.5	PASS
					VH	-12.62	-0.00503	±2.5	PASS
					VL	-4.69	-0.00185	±2.5	PASS
			MCH	TN	VN	-7.44	-0.00293	±2.5	PASS
					VH	-18.15	-0.00716	±2.5	PASS
					VL	-7.24	-0.00283	±2.5	PASS
HCH	TN		VN	15.25	0.00596	±2.5	PASS		
			VH	3.79	0.00148	±2.5	PASS		
			VL	8.47	0.00338	±2.5	PASS		
20	LCH	TN	VN	-11.77	-0.00469	±2.5	PASS		
			VH	11.16	0.00445	±2.5	PASS		
			VL	6.65	0.00262	±2.5	PASS		
	MCH	TN	VN	-4.94	-0.00195	±2.5	PASS		
			VH	-10.69	-0.00422	±2.5	PASS		
			VL	-12.53	-0.00489	±2.5	PASS		
	HCH	TN	VN	-23.23	-0.00907	±2.5	PASS		
			VH	5.84	0.00228	±2.5	PASS		
			VL	-1.44	-0.00057	±2.5	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]	Limit [dBm]	Verdict
BAND2	LTE/TM1	1.4	LCH	VN	-30	-6.35	-0.00343	±2.5	PASS
					-20	5.88	0.00318	±2.5	PASS
					-10	4.18	0.00226	±2.5	PASS
					0	4.12	0.00223	±2.5	PASS
					10	6.75	0.00365	±2.5	PASS
					20	2.73	0.00148	±2.5	PASS
					30	5.84	0.00316	±2.5	PASS
					40	1.10	0.00059	±2.5	PASS
					50	0.03	0.00002	±2.5	PASS
			MCH	VN	-30	-5.54	-0.00295	±2.5	PASS
					-20	-11.37	-0.00605	±2.5	PASS
					-10	1.70	0.0009	±2.5	PASS
					0	-5.31	-0.00282	±2.5	PASS
					10	-14.28	-0.0076	±2.5	PASS
					20	1.23	0.00065	±2.5	PASS
					30	-4.99	-0.00265	±2.5	PASS
					40	-7.71	-0.0041	±2.5	PASS
					50	-15.18	-0.00807	±2.5	PASS
			HCH	VN	-30	-8.63	-0.00452	±2.5	PASS
					-20	-5.44	-0.00285	±2.5	PASS
					-10	-14.73	-0.00771	±2.5	PASS
					0	-0.76	-0.0004	±2.5	PASS
					10	-8.43	-0.00442	±2.5	PASS
					20	-4.38	-0.00229	±2.5	PASS
		30			-1.52	-0.0008	±2.5	PASS	
		40			-8.05	-0.00422	±2.5	PASS	
		50			-5.32	-0.00279	±2.5	PASS	
		3	LCH	VN	-30	-4.15	-0.00224	±2.5	PASS
					-20	-13.22	-0.00714	±2.5	PASS
					-10	-4.45	-0.0024	±2.5	PASS
					0	-0.59	-0.00032	±2.5	PASS
					10	-12.63	-0.00682	±2.5	PASS
					20	-4.45	-0.0024	±2.5	PASS
					30	0.70	0.00038	±2.5	PASS
					40	-12.29	-0.00664	±2.5	PASS