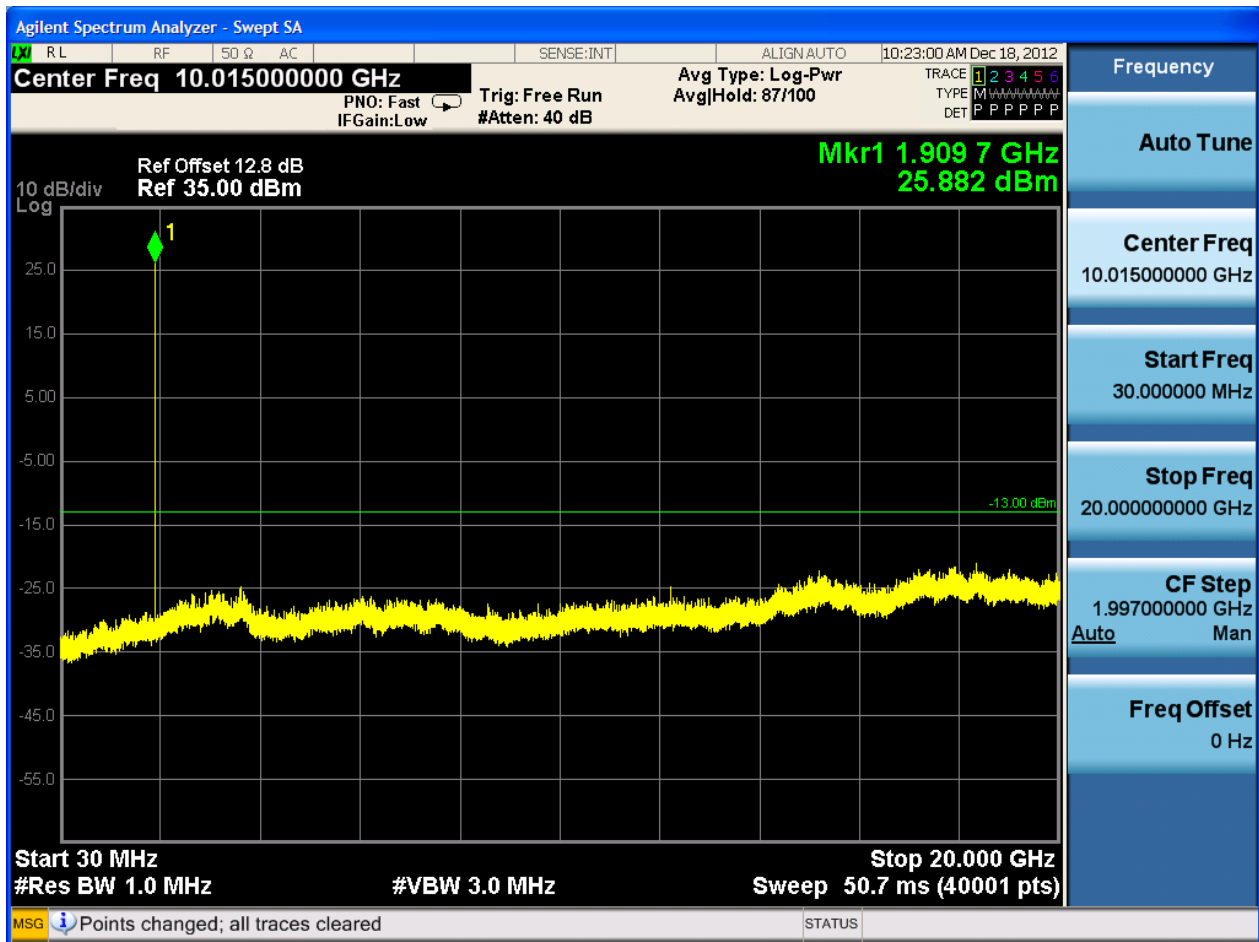
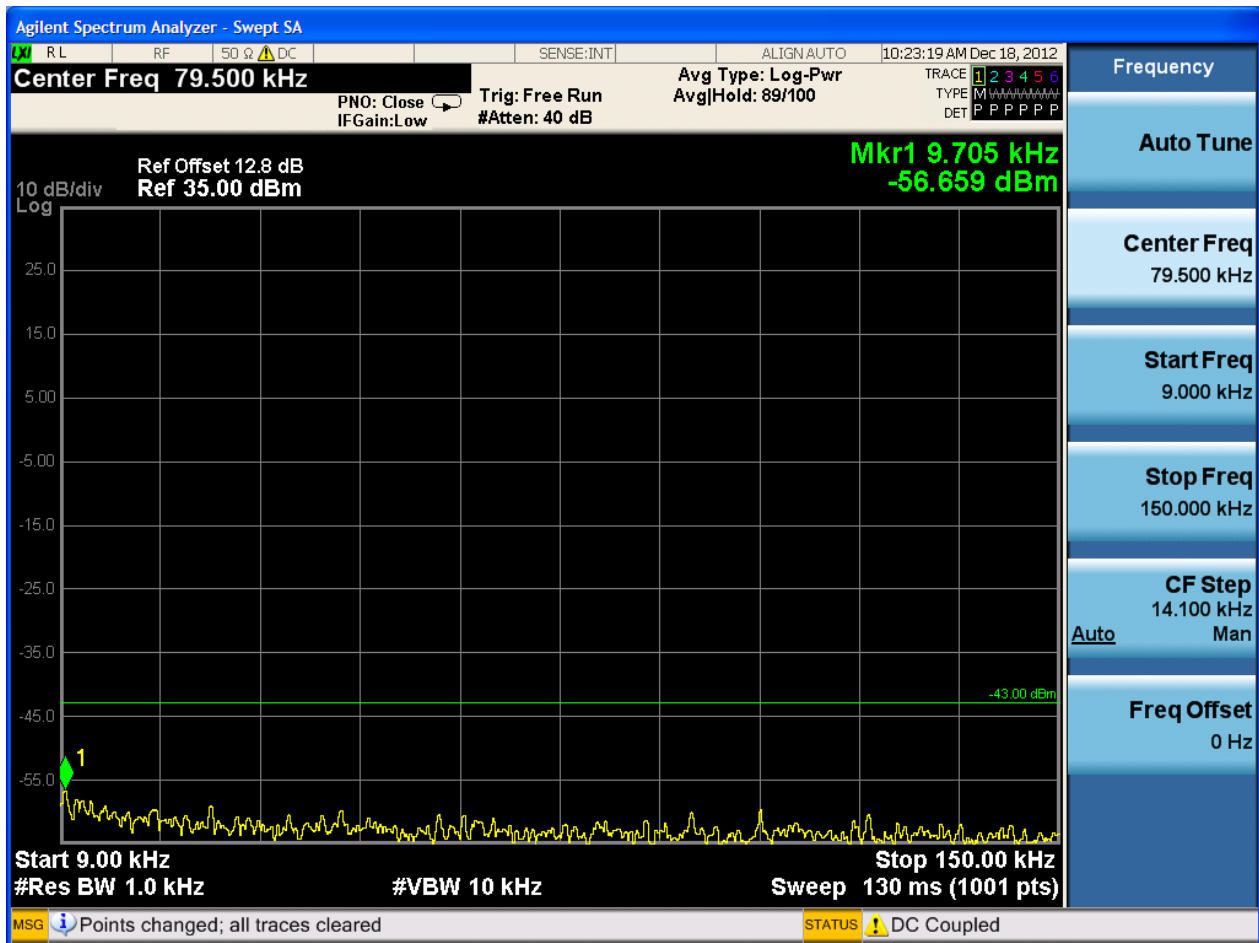
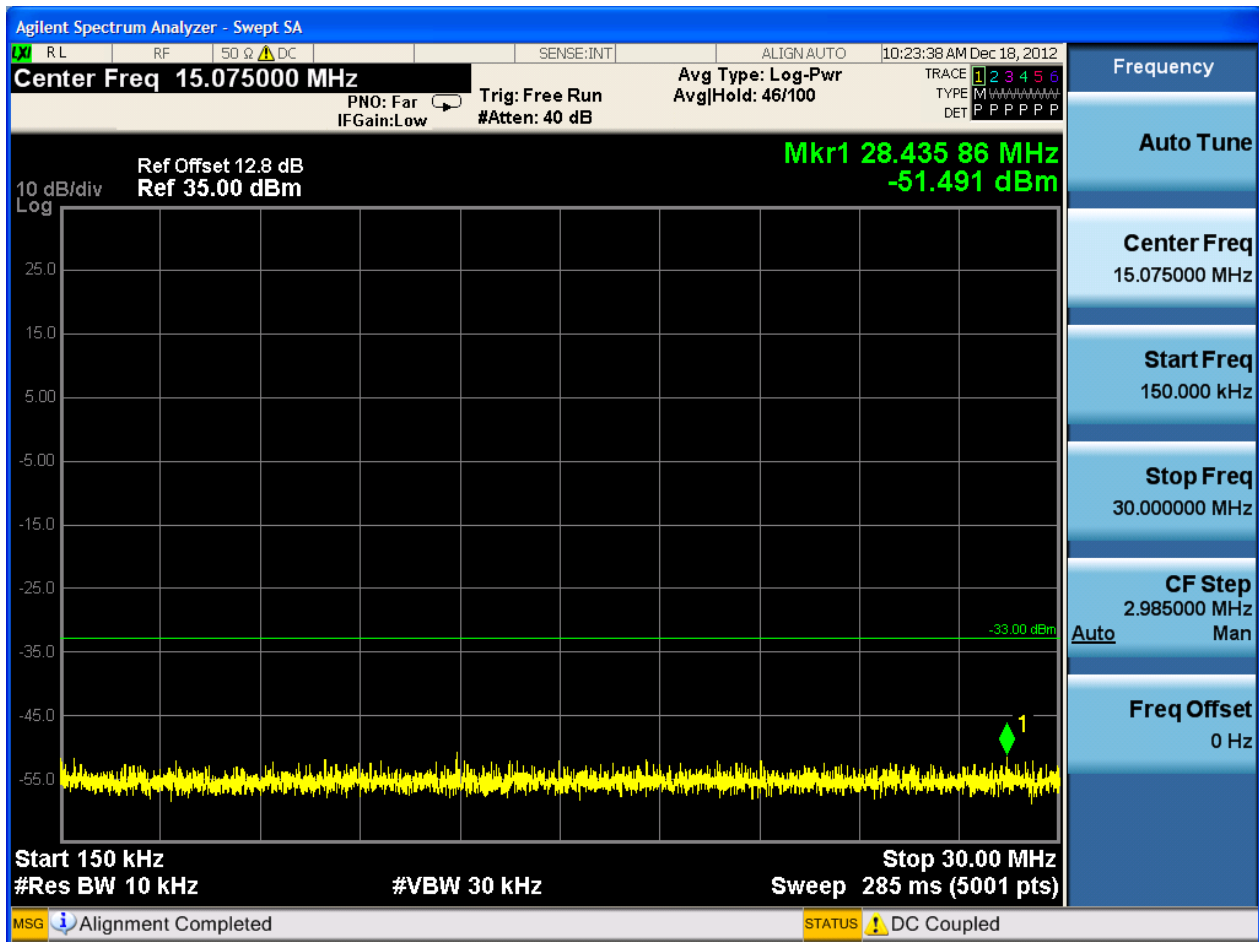
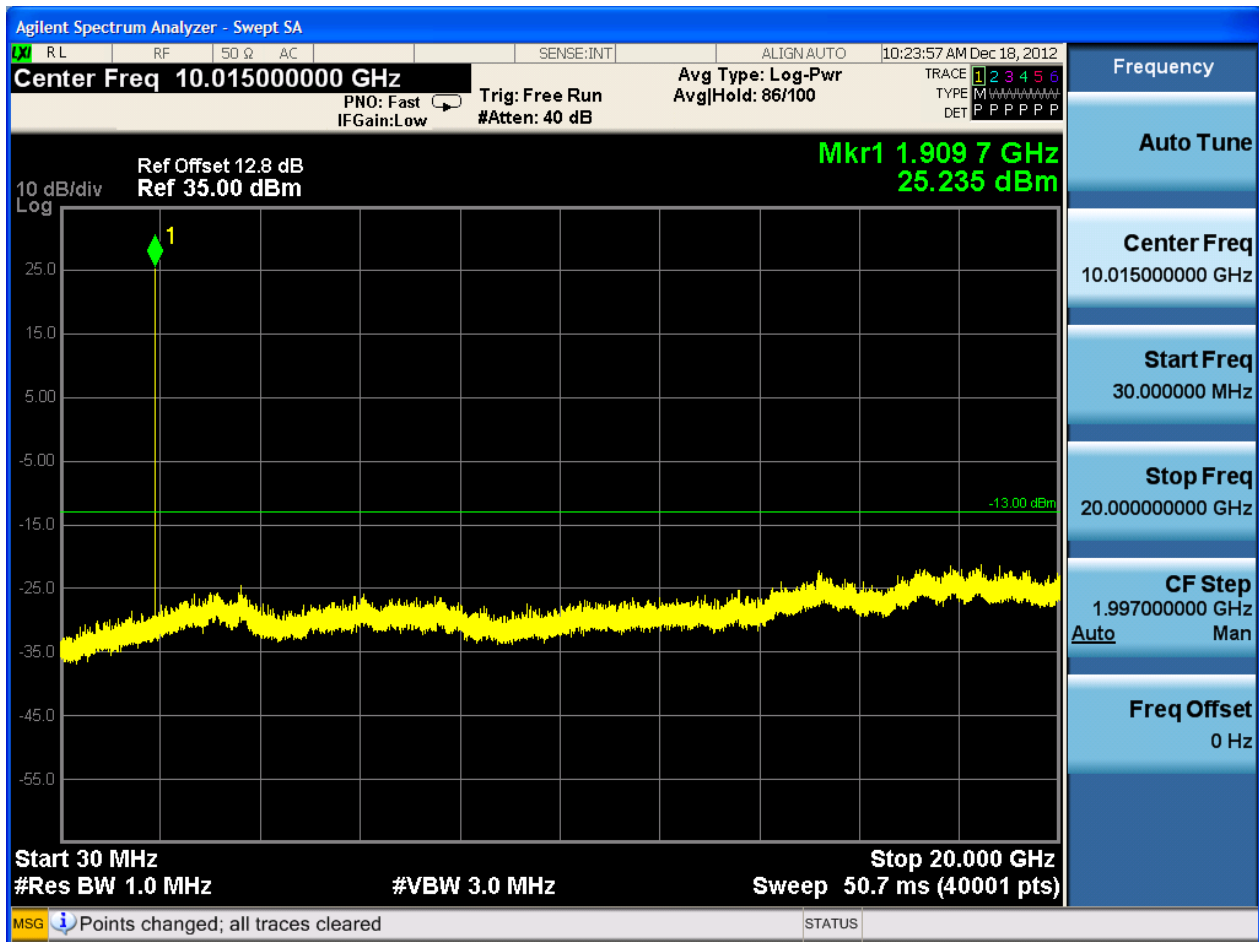




4.1.2.2.3 Test Channel = HCH





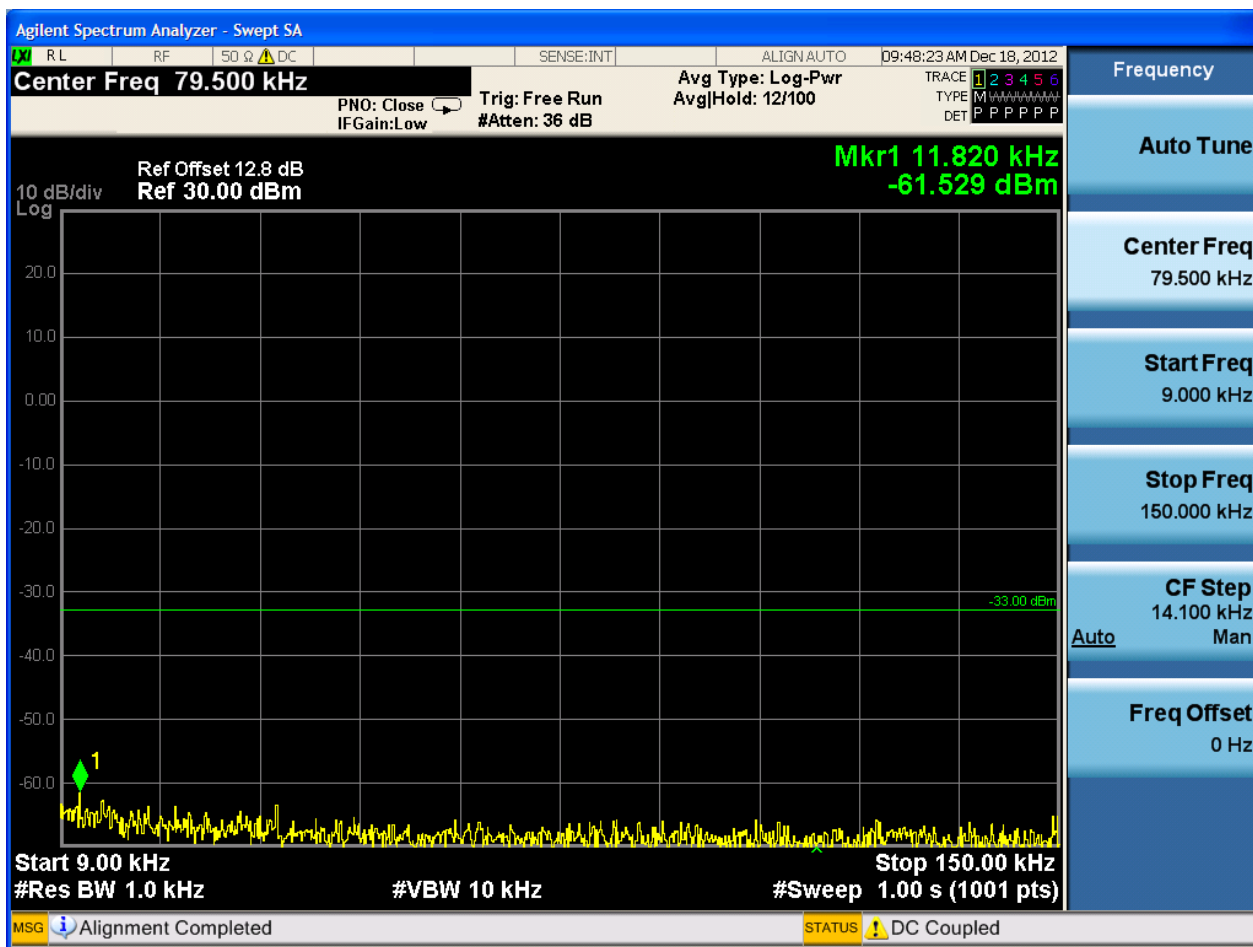


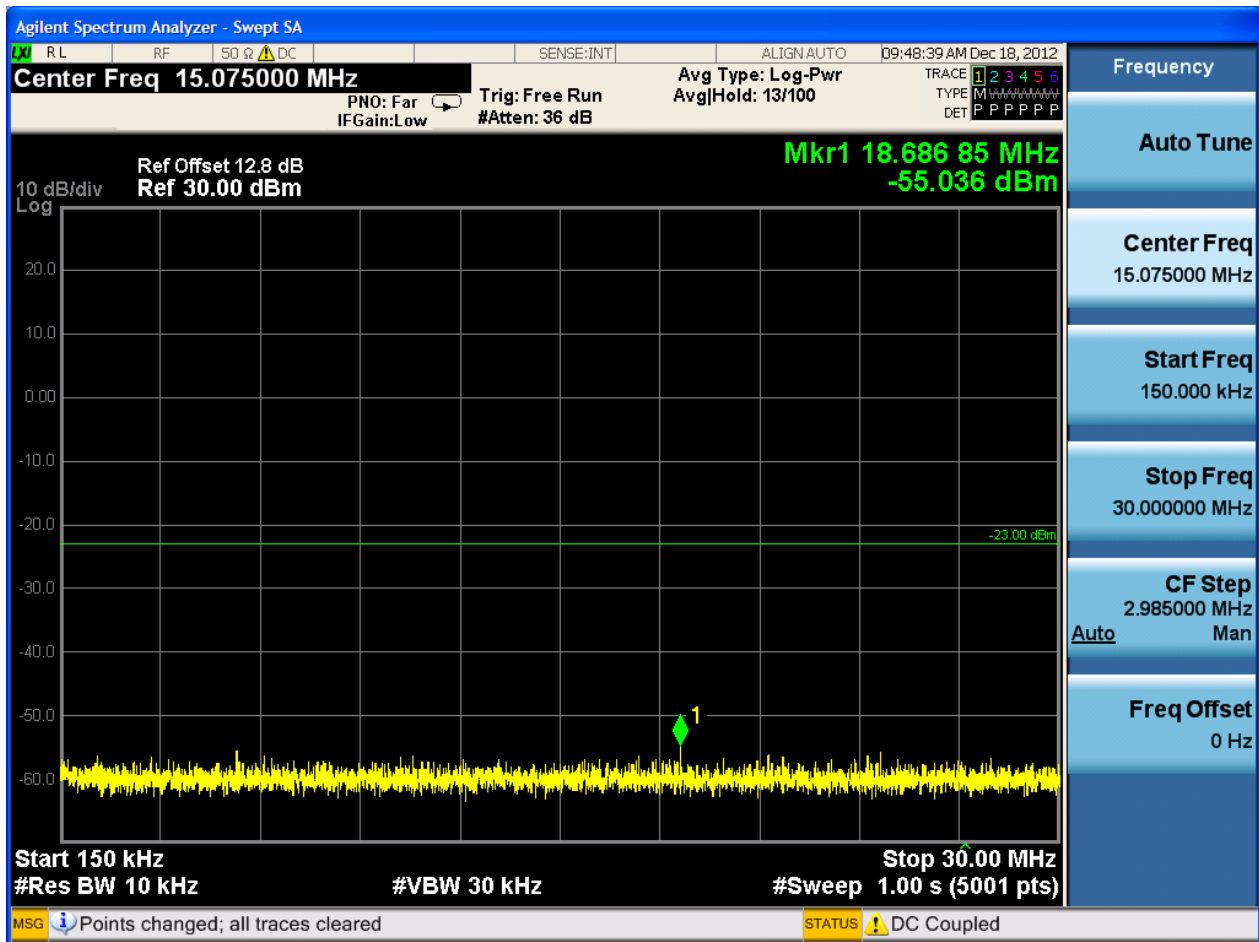
4.2 For UMTS

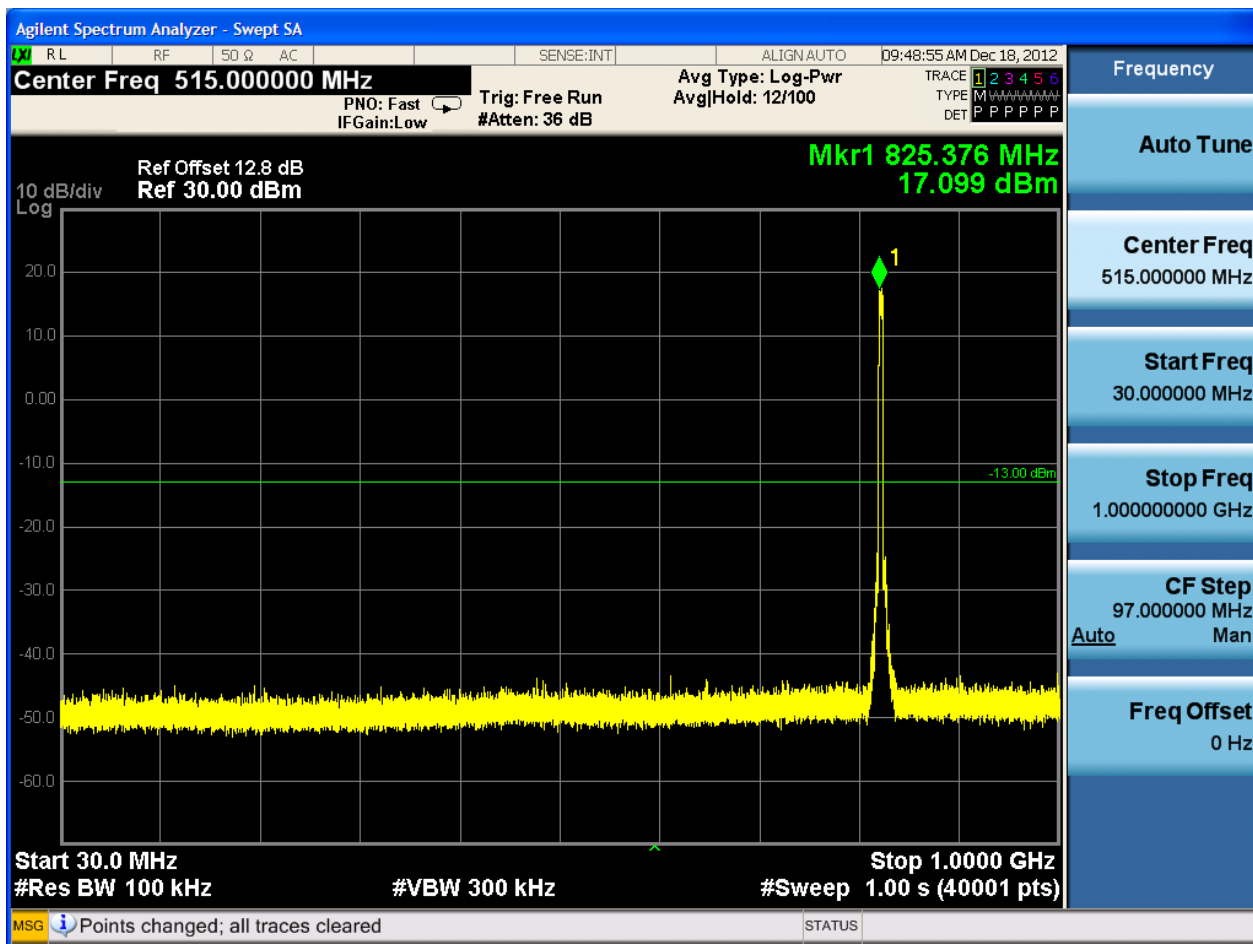
4.2.1 Test Band = WCDMA850

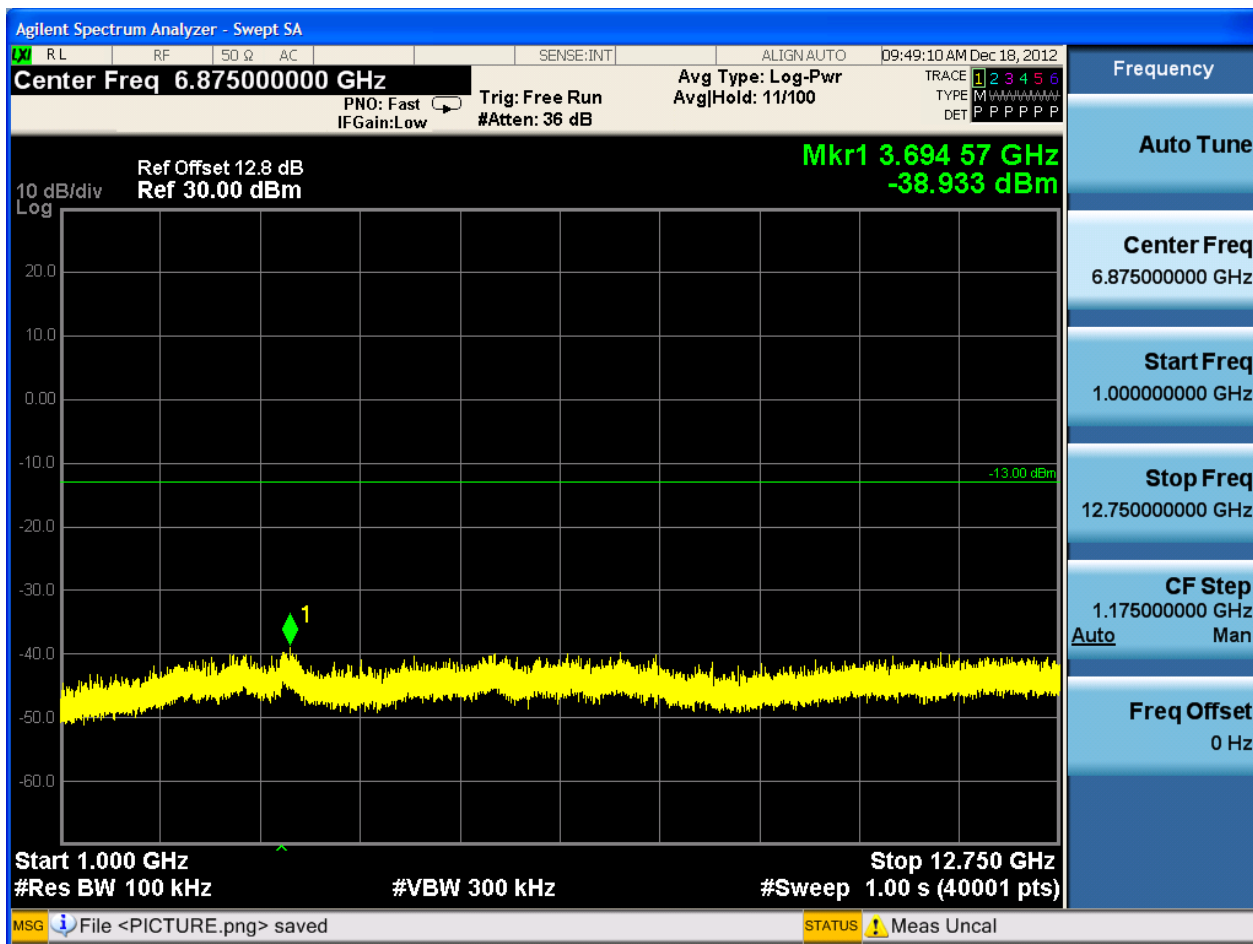
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH

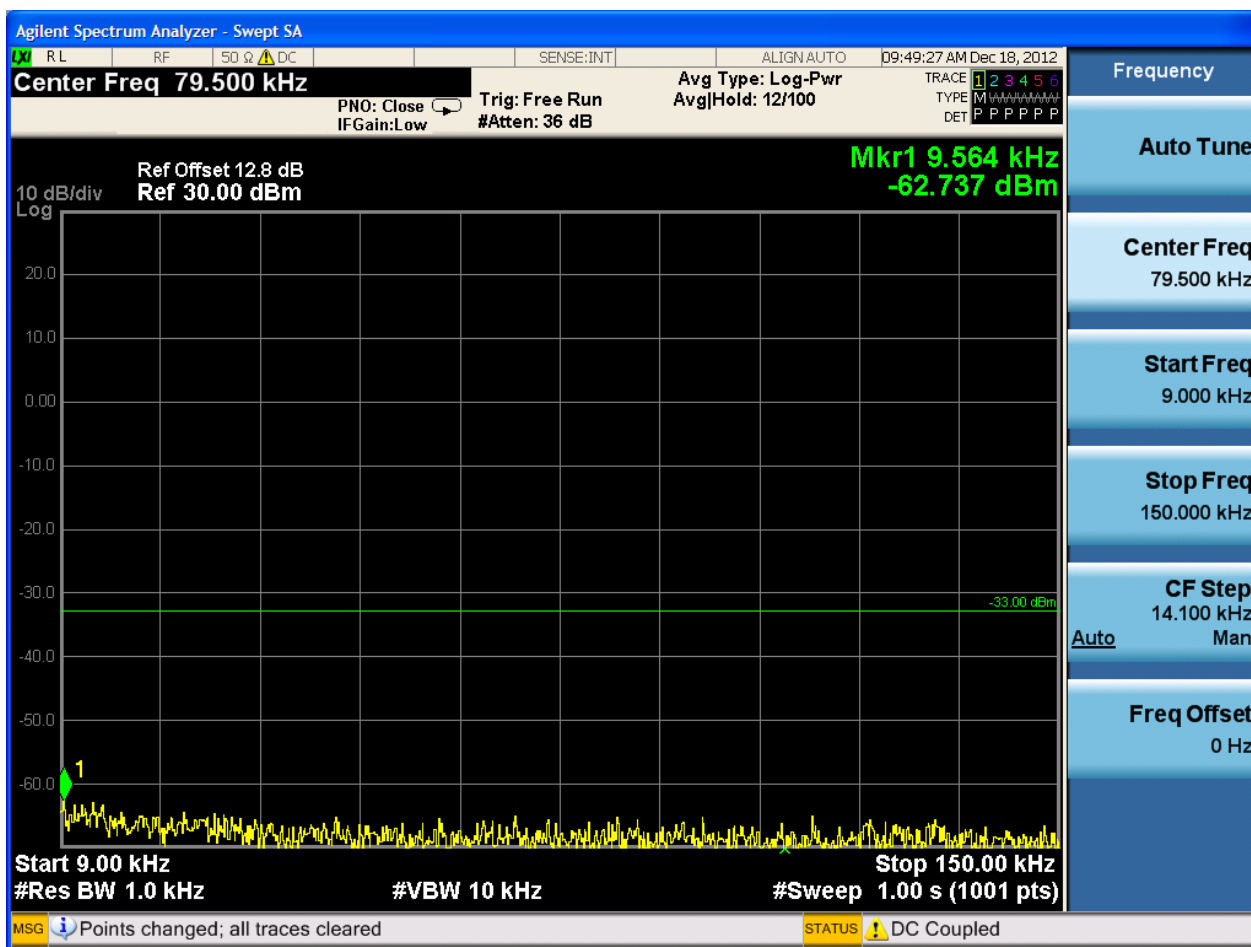


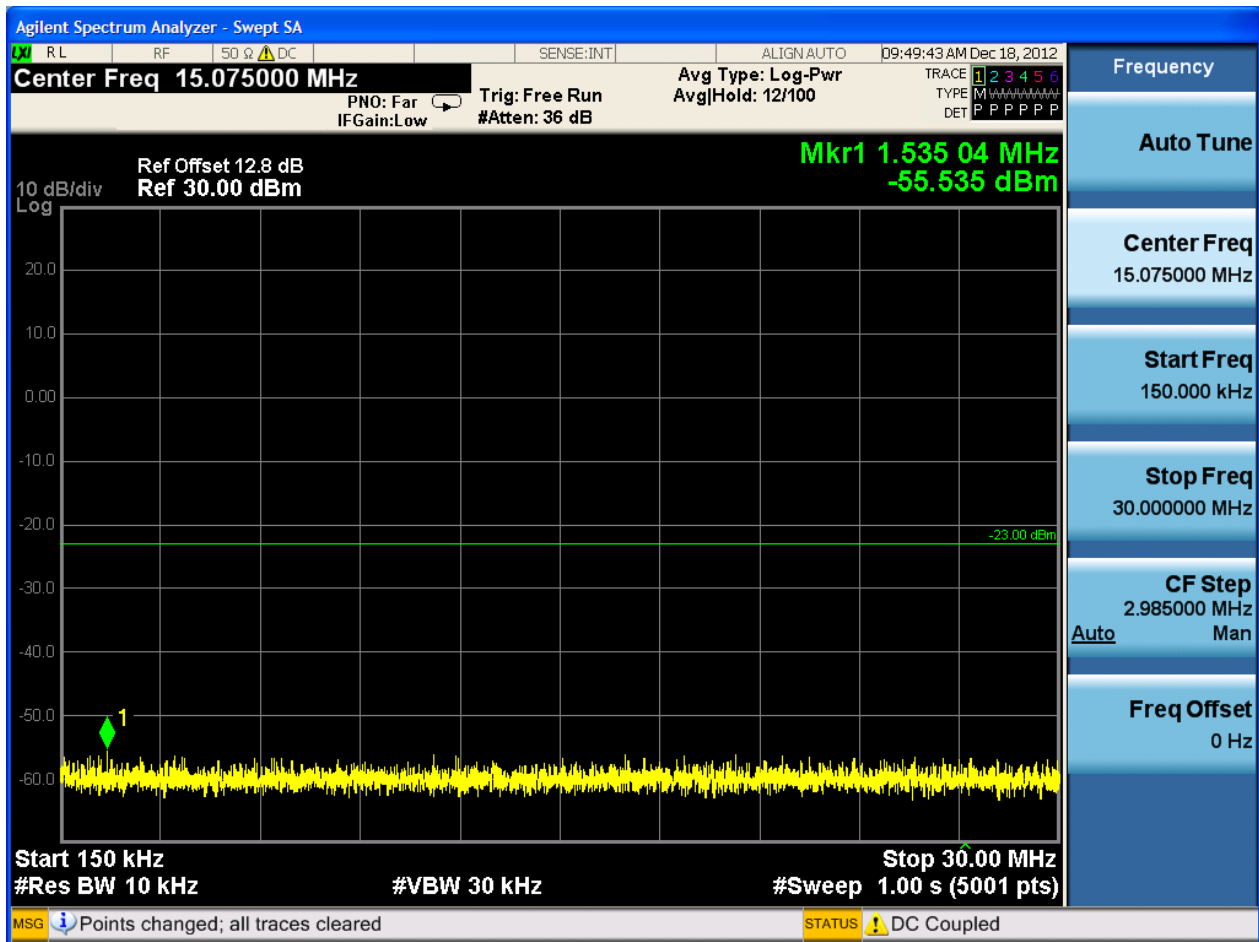


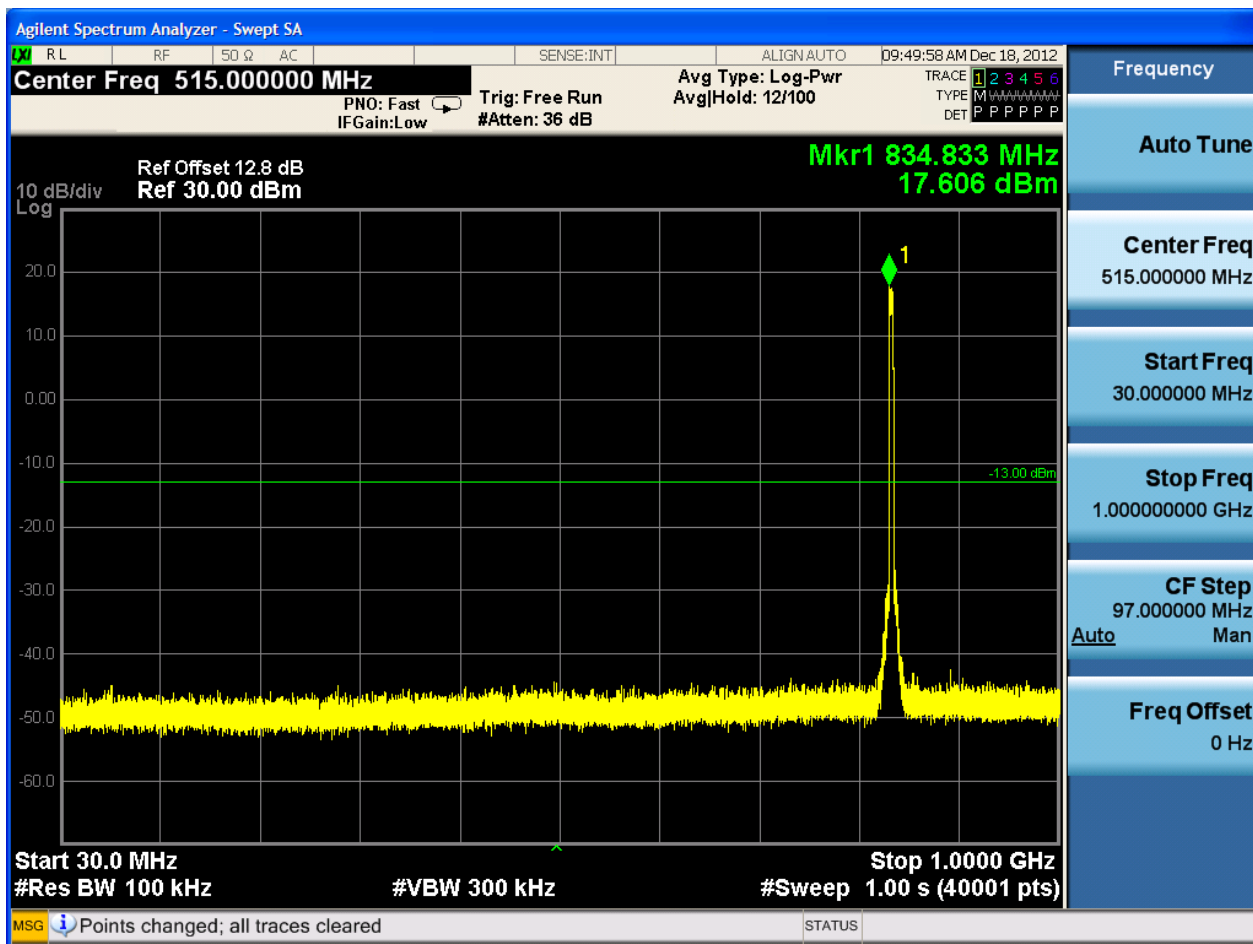


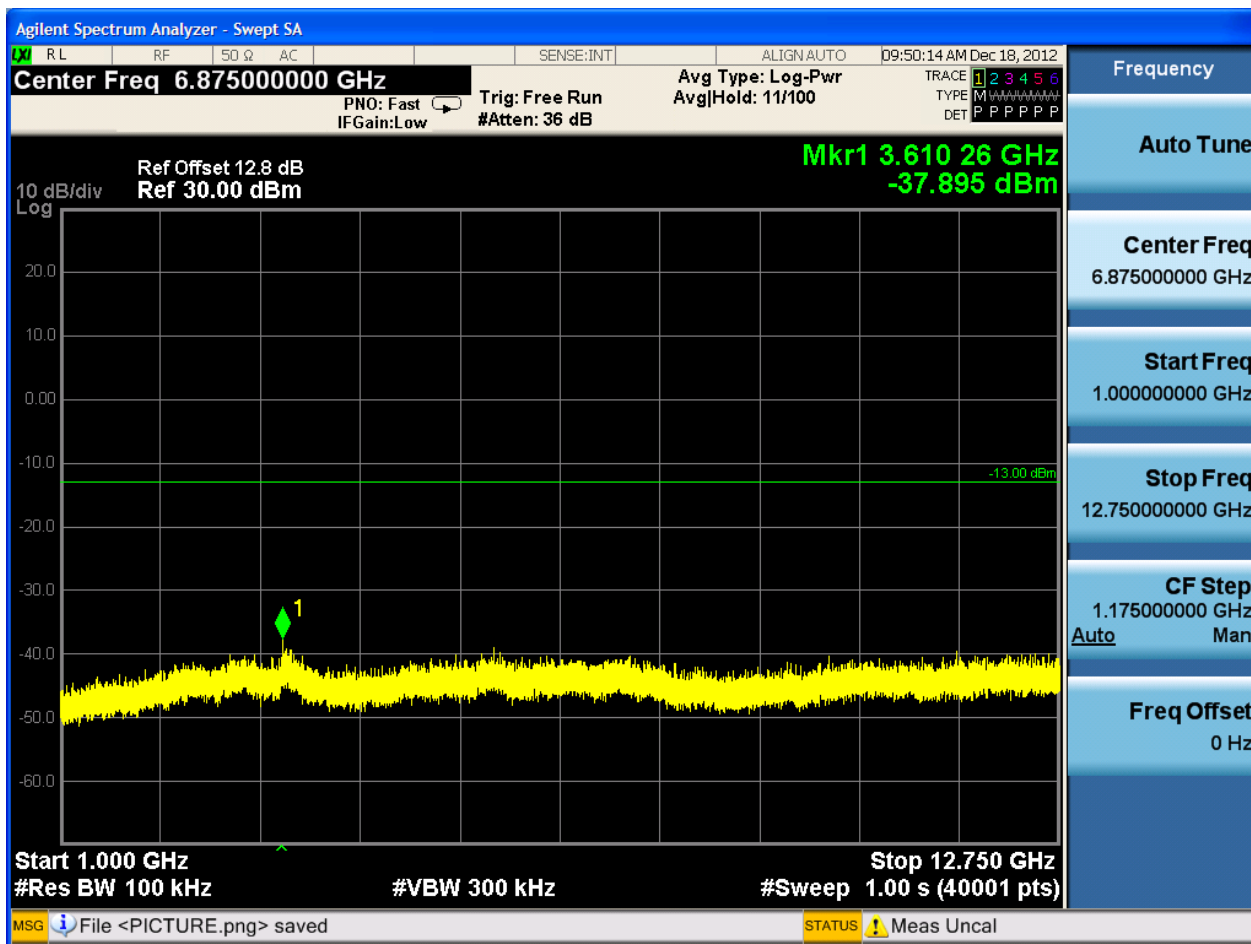


4.2.1.1.2 Test Channel = MCH

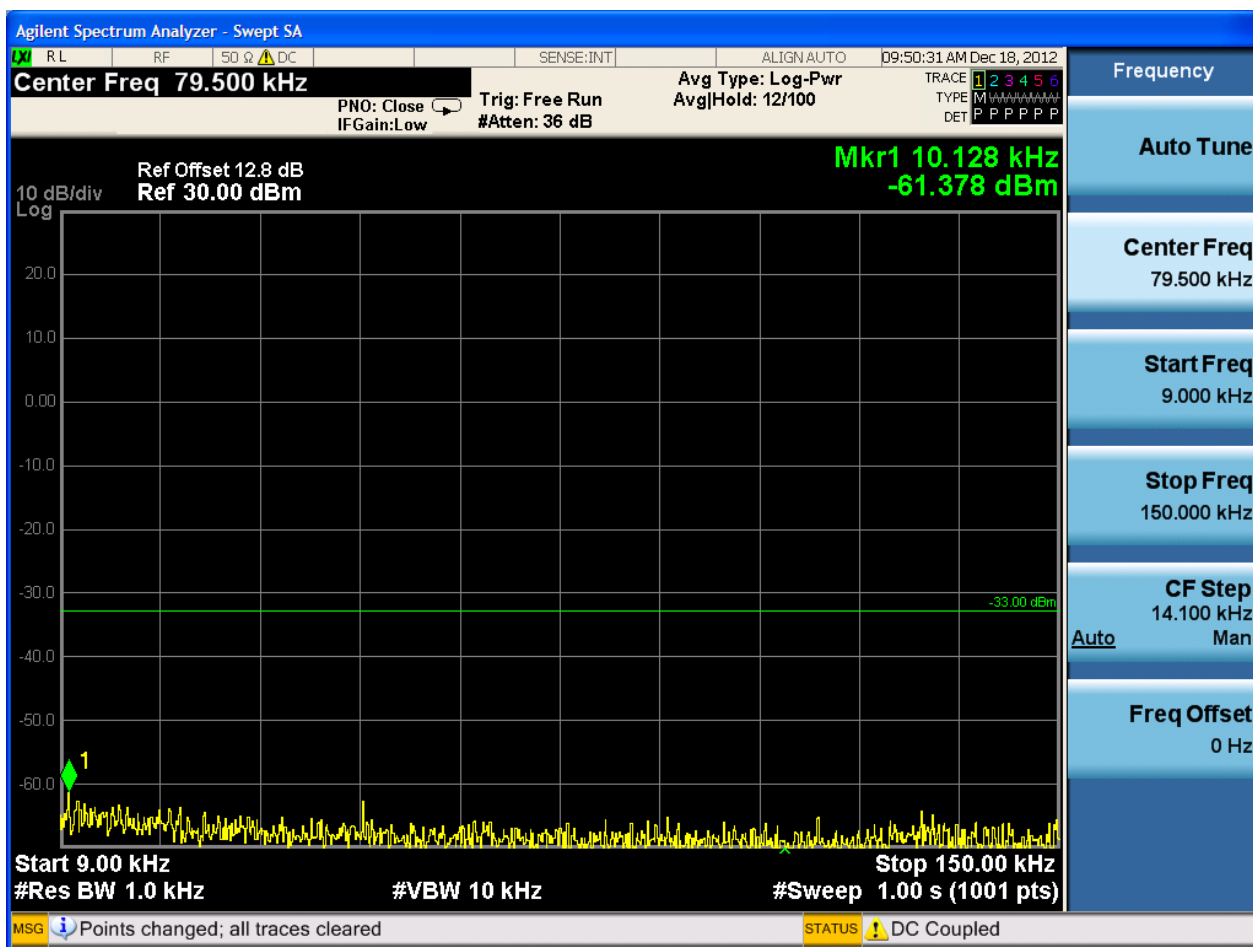


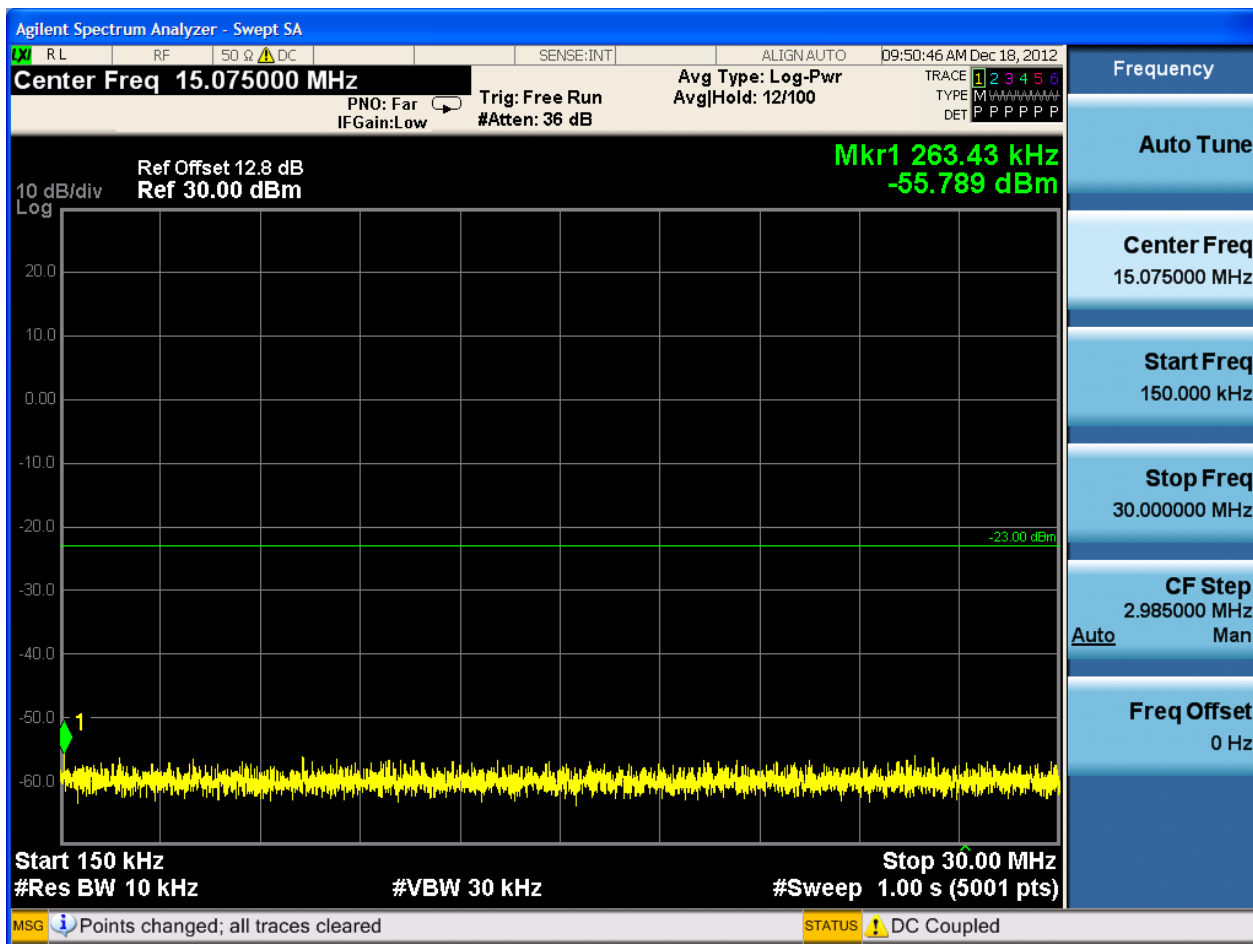


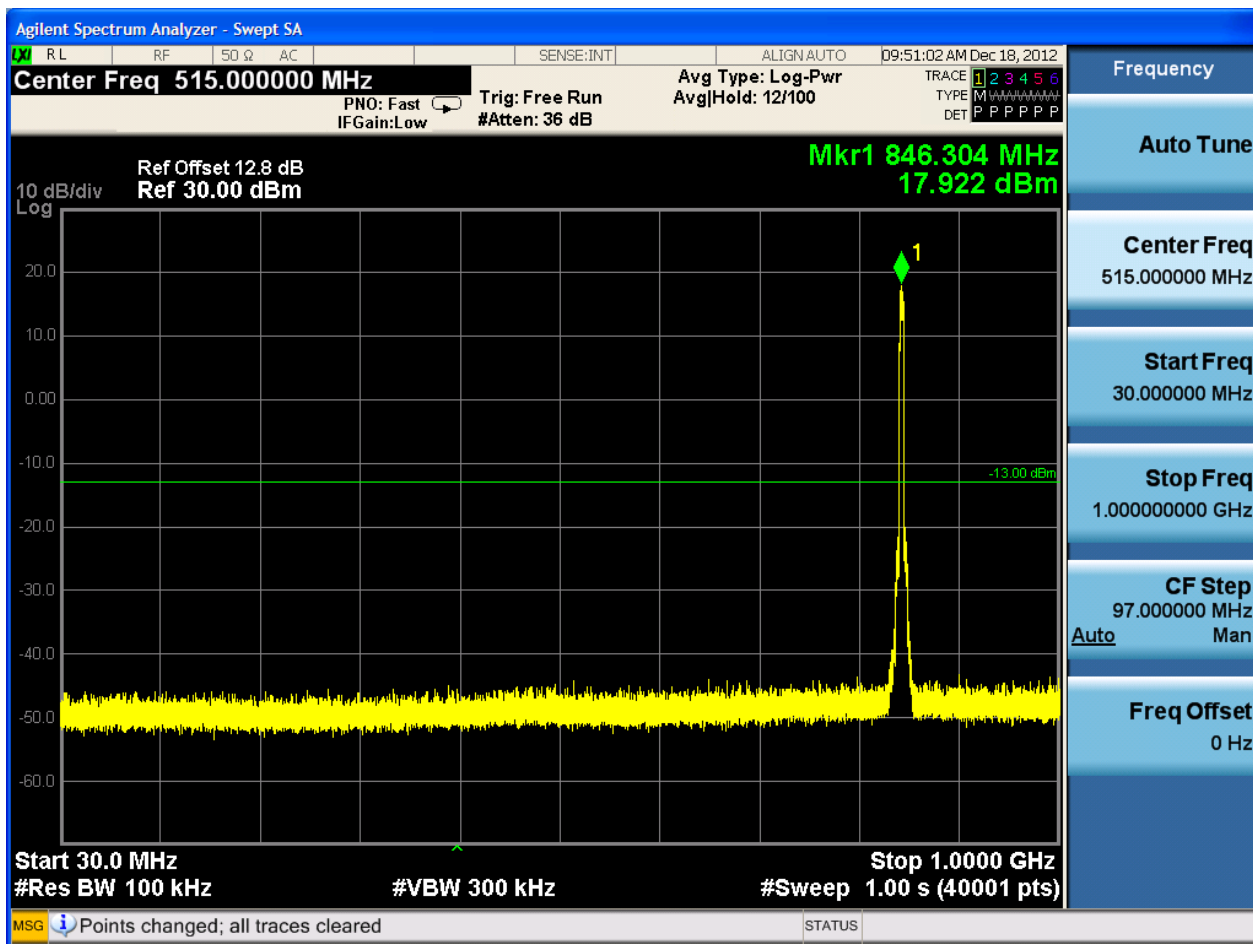


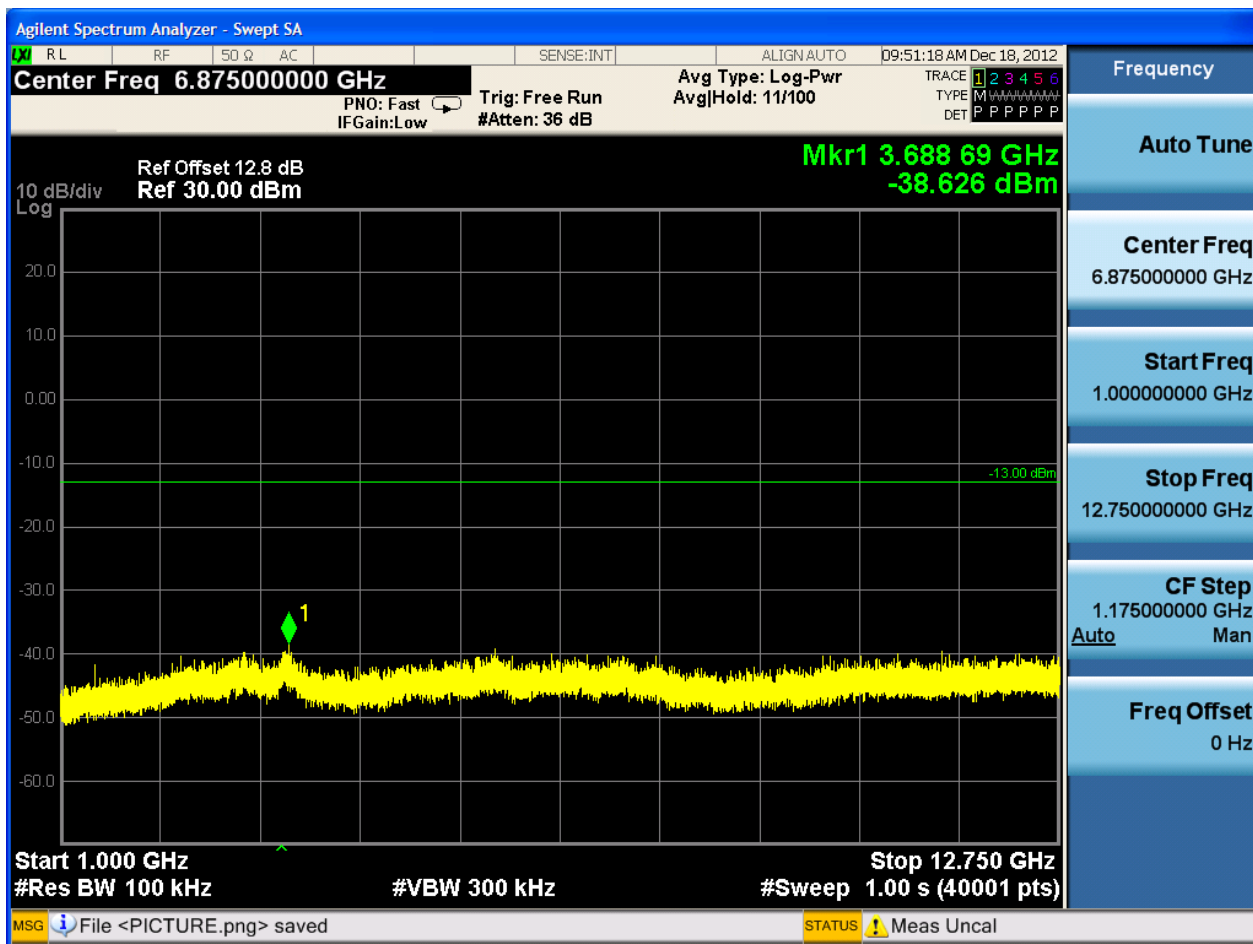


4.2.1.1.3 Test Channel = HCH





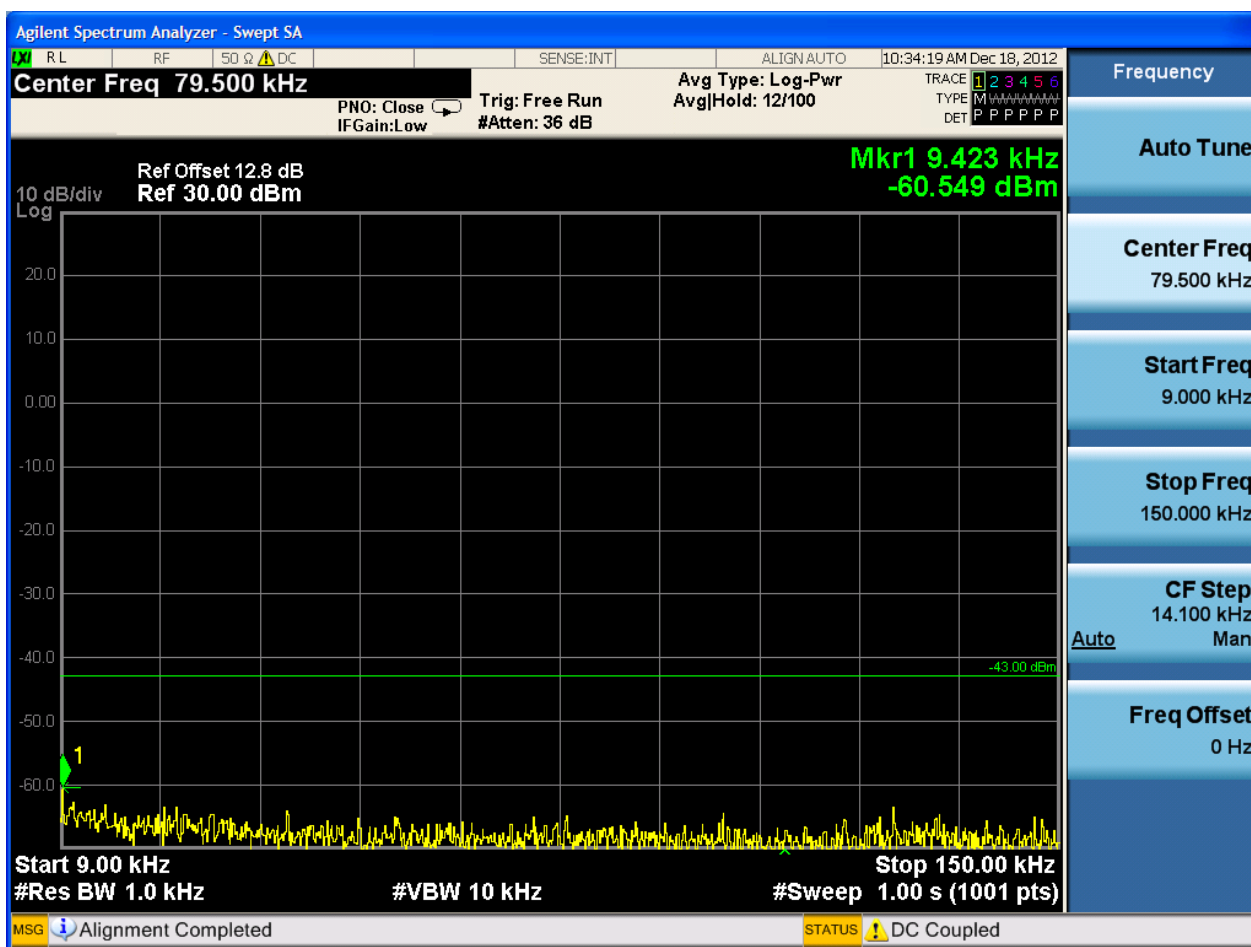


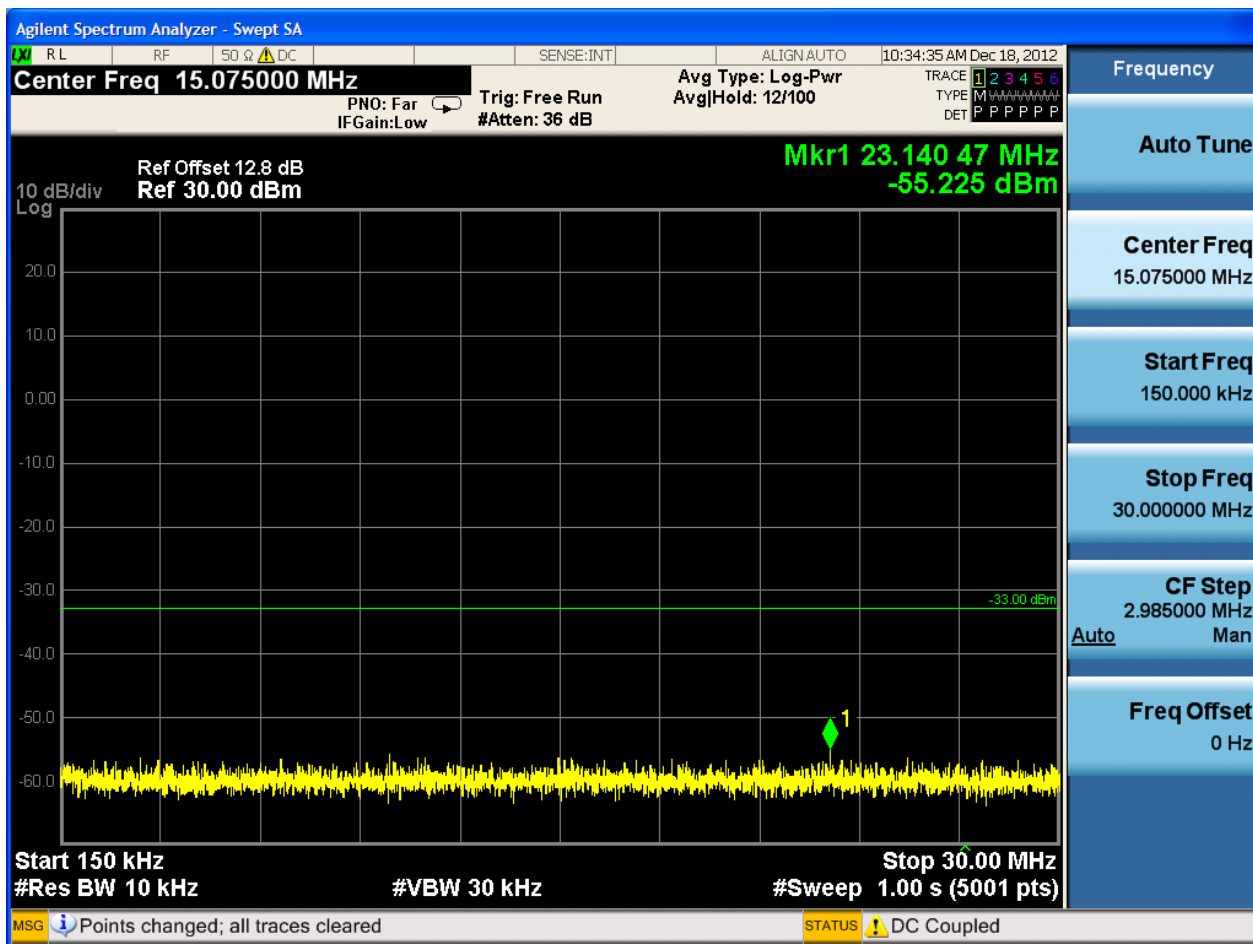


4.2.2 Test Band = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1

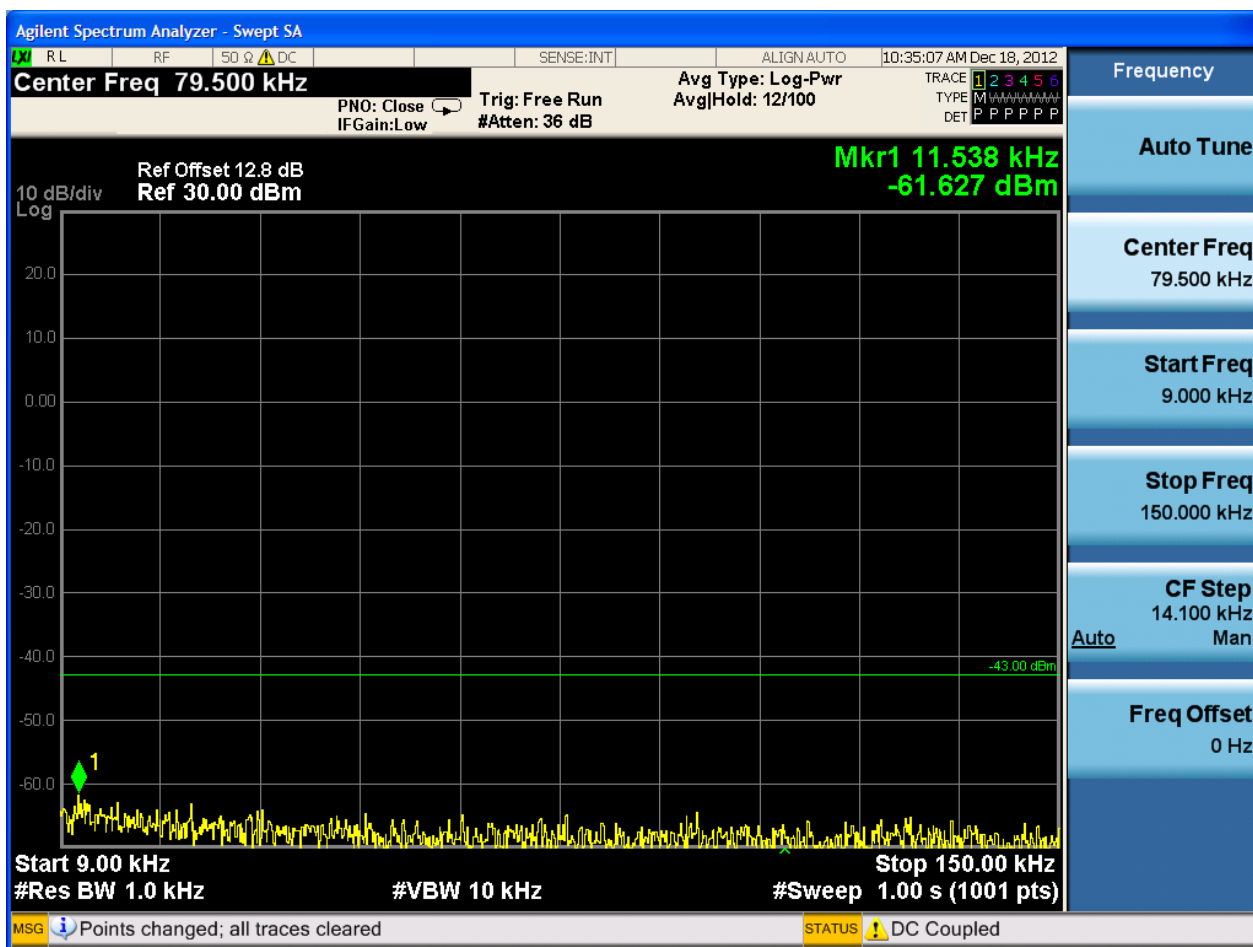
4.2.2.1.1 Test Channel = LCH

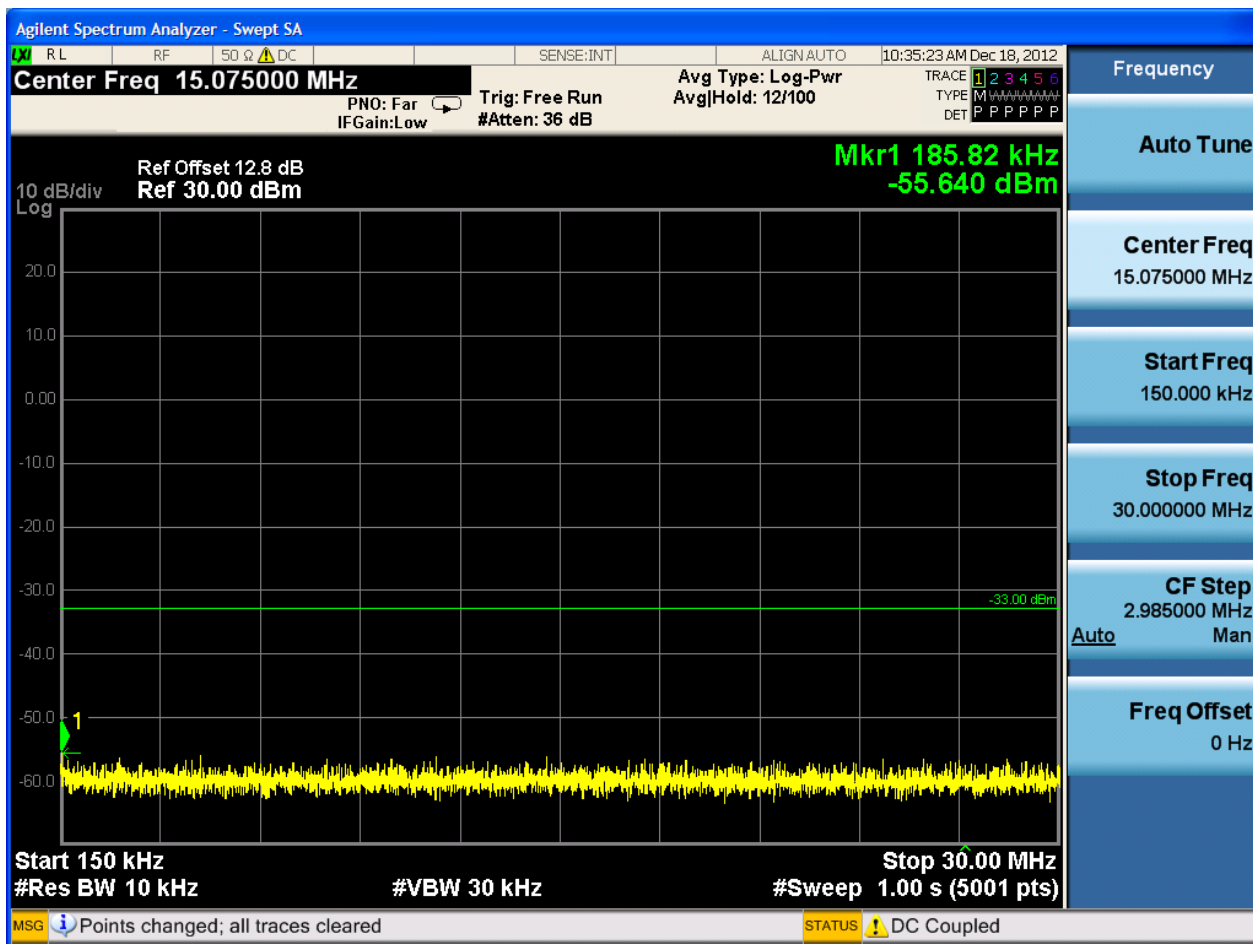


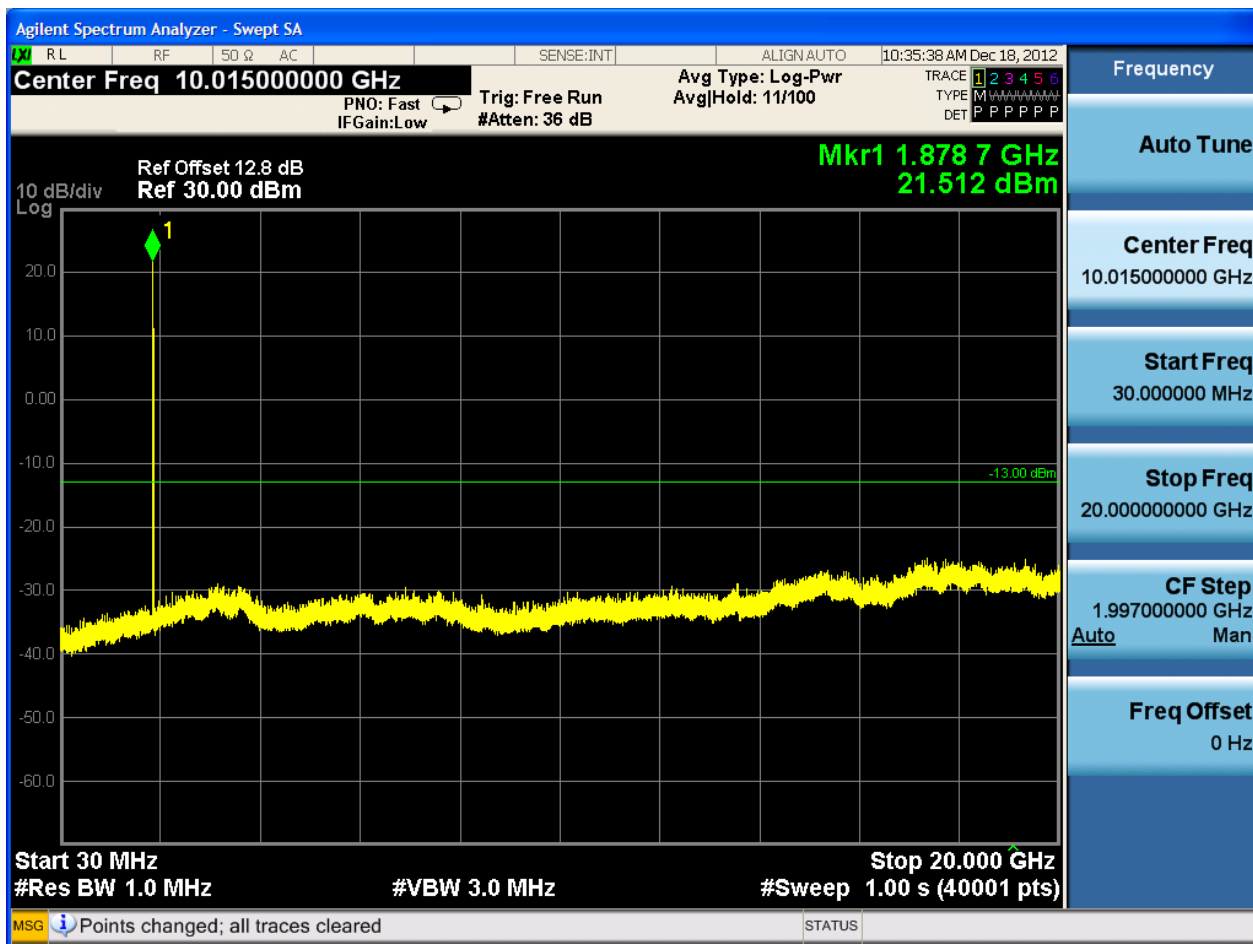




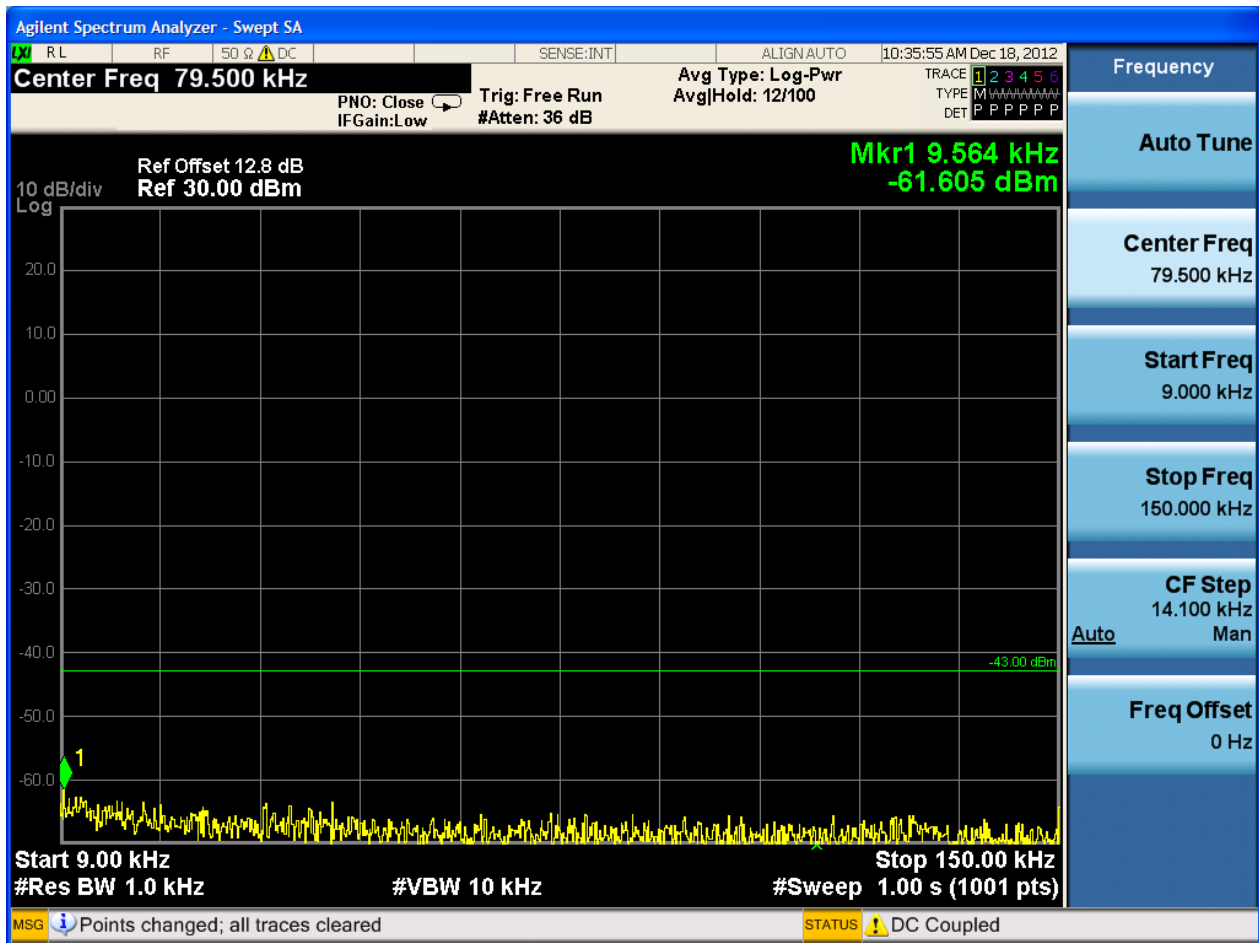
4.2.2.1.2 Test Channel = MCH

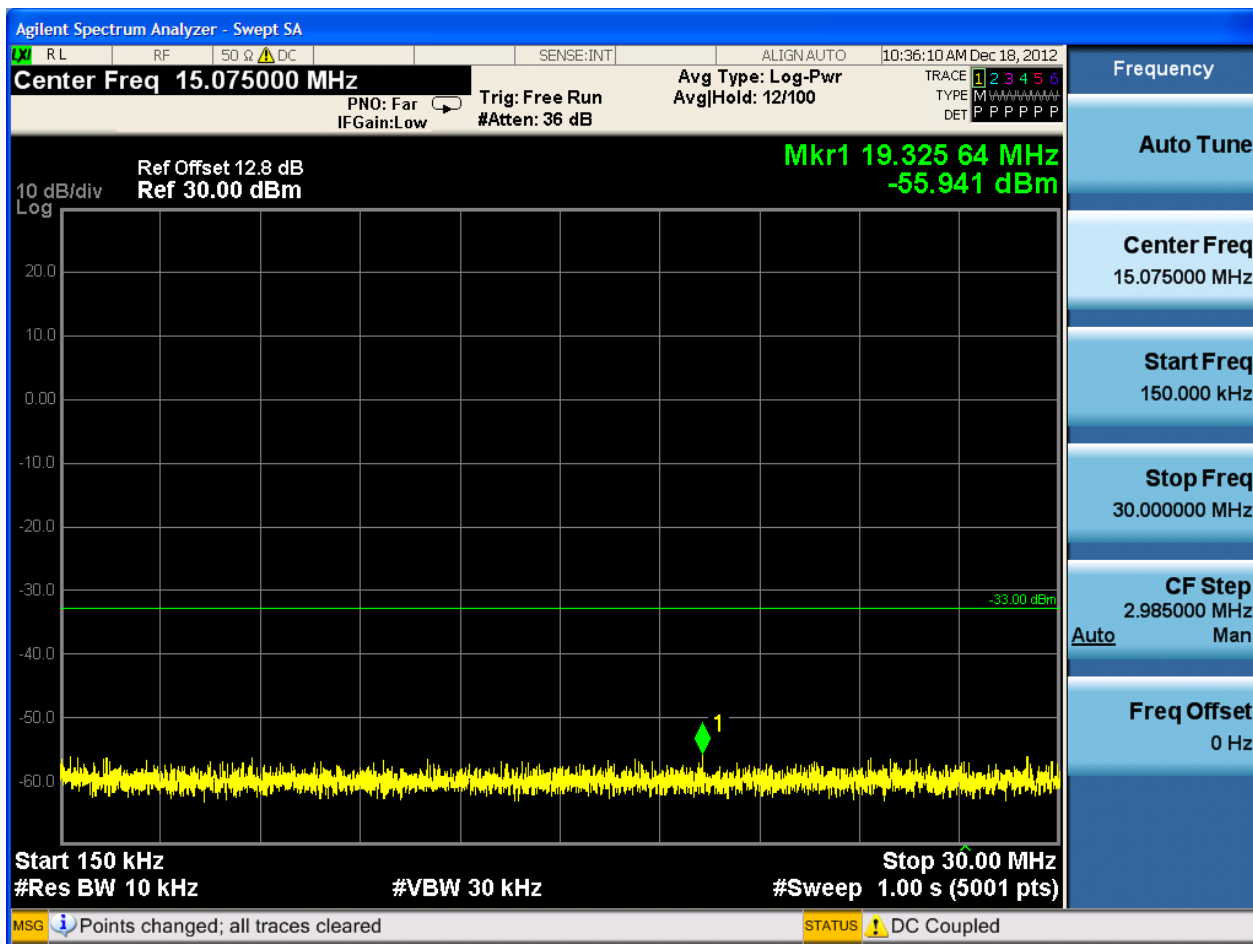


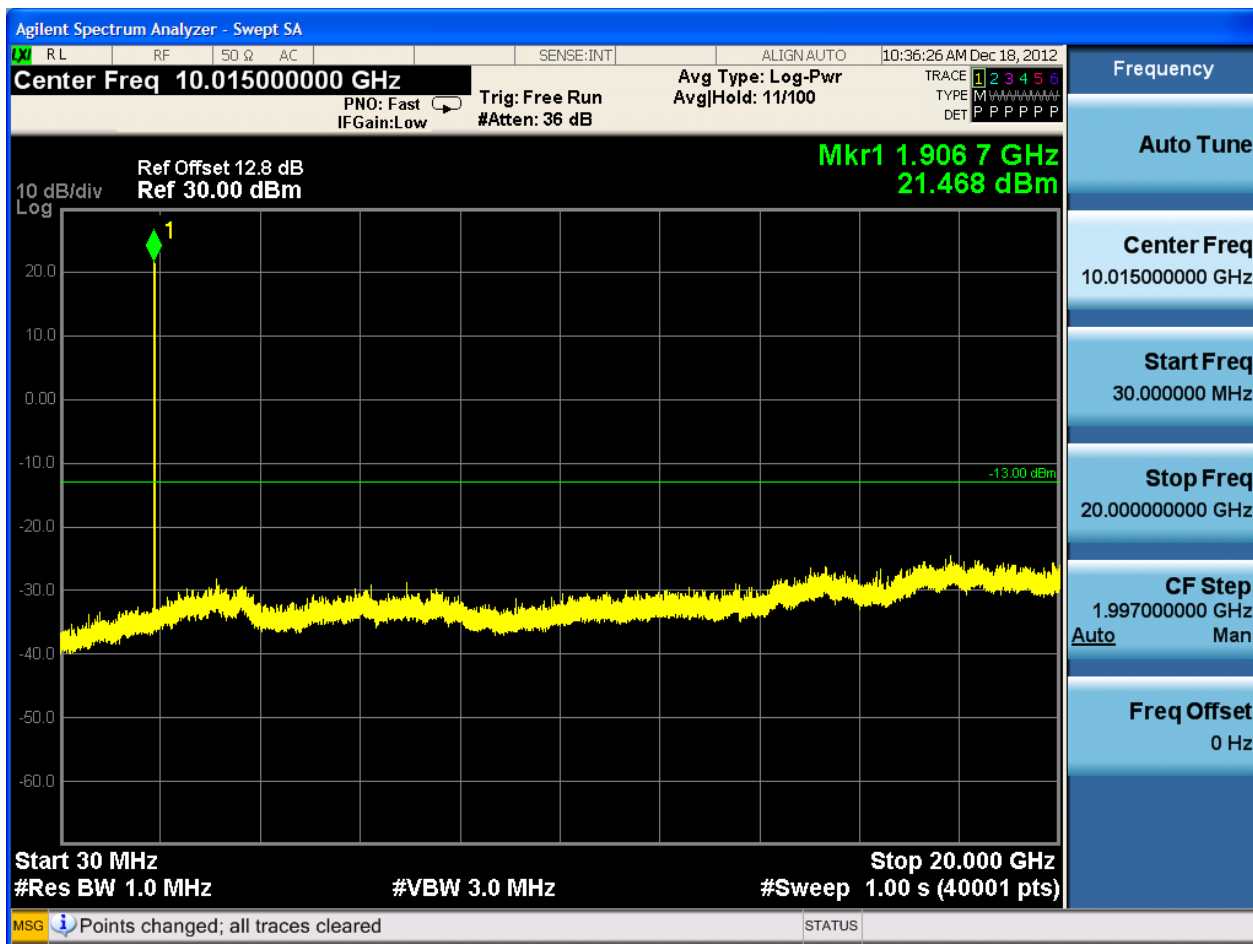




4.2.2.1.3 Test Channel = HCH





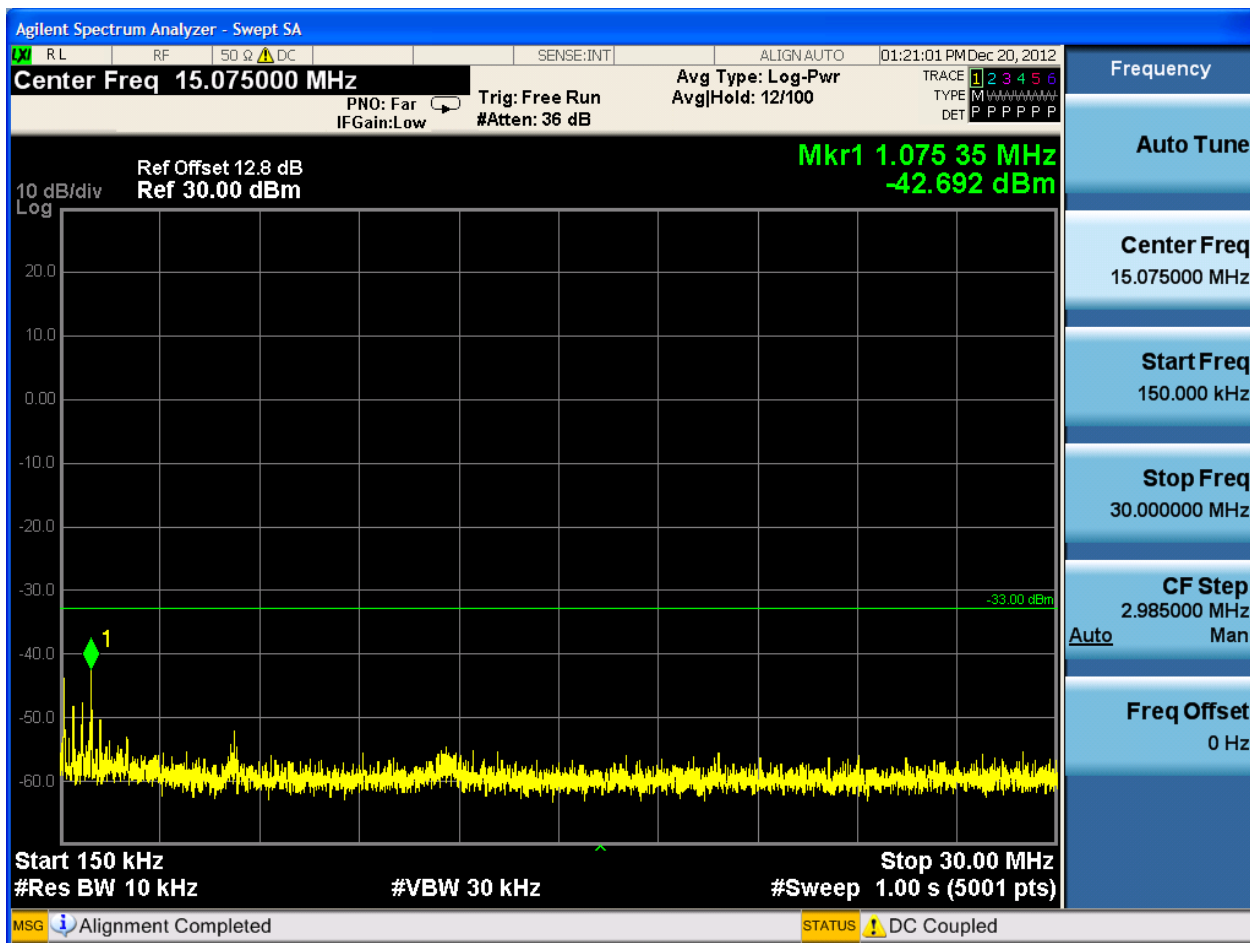


4.2.3 Test Band = WCDMA1700

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH

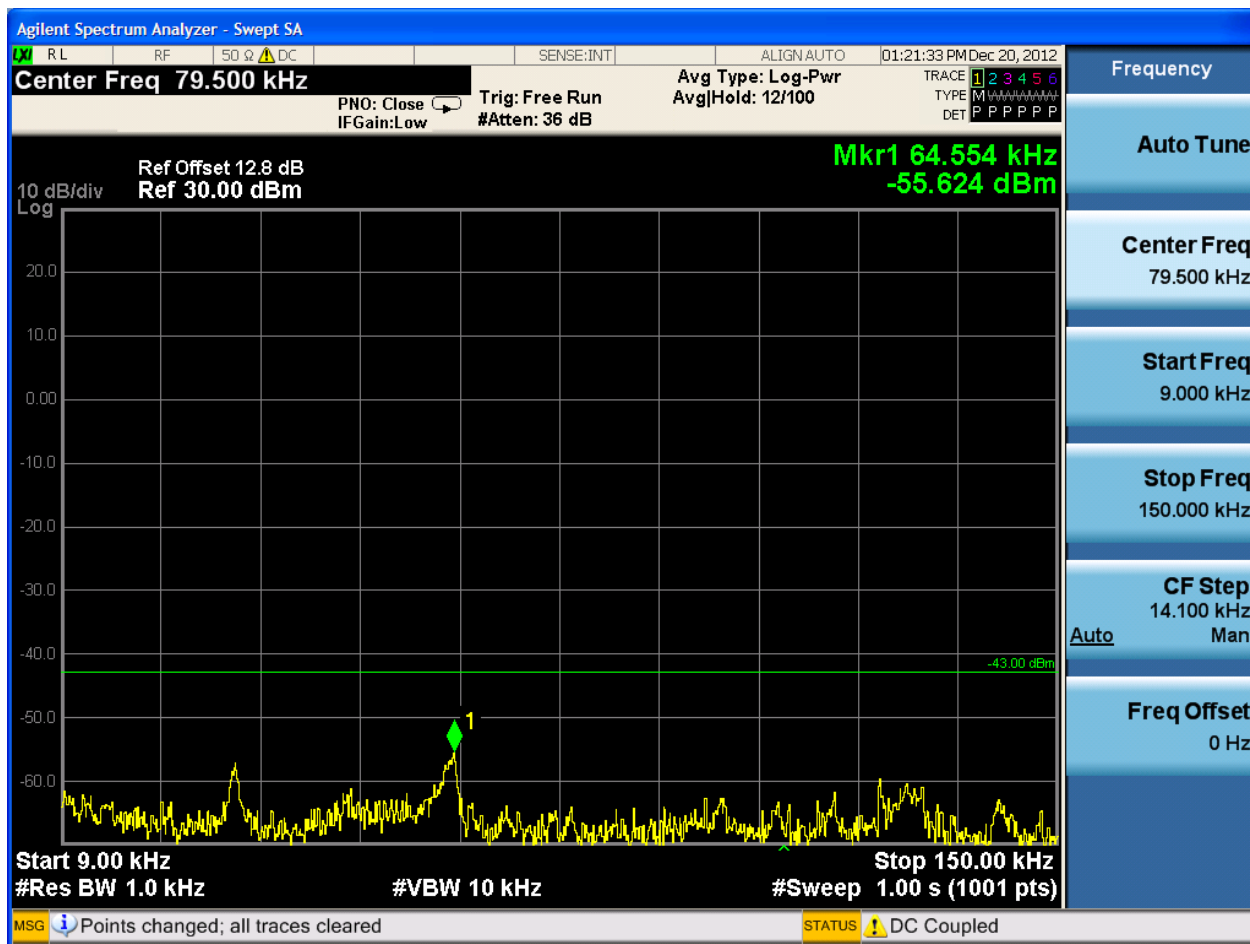


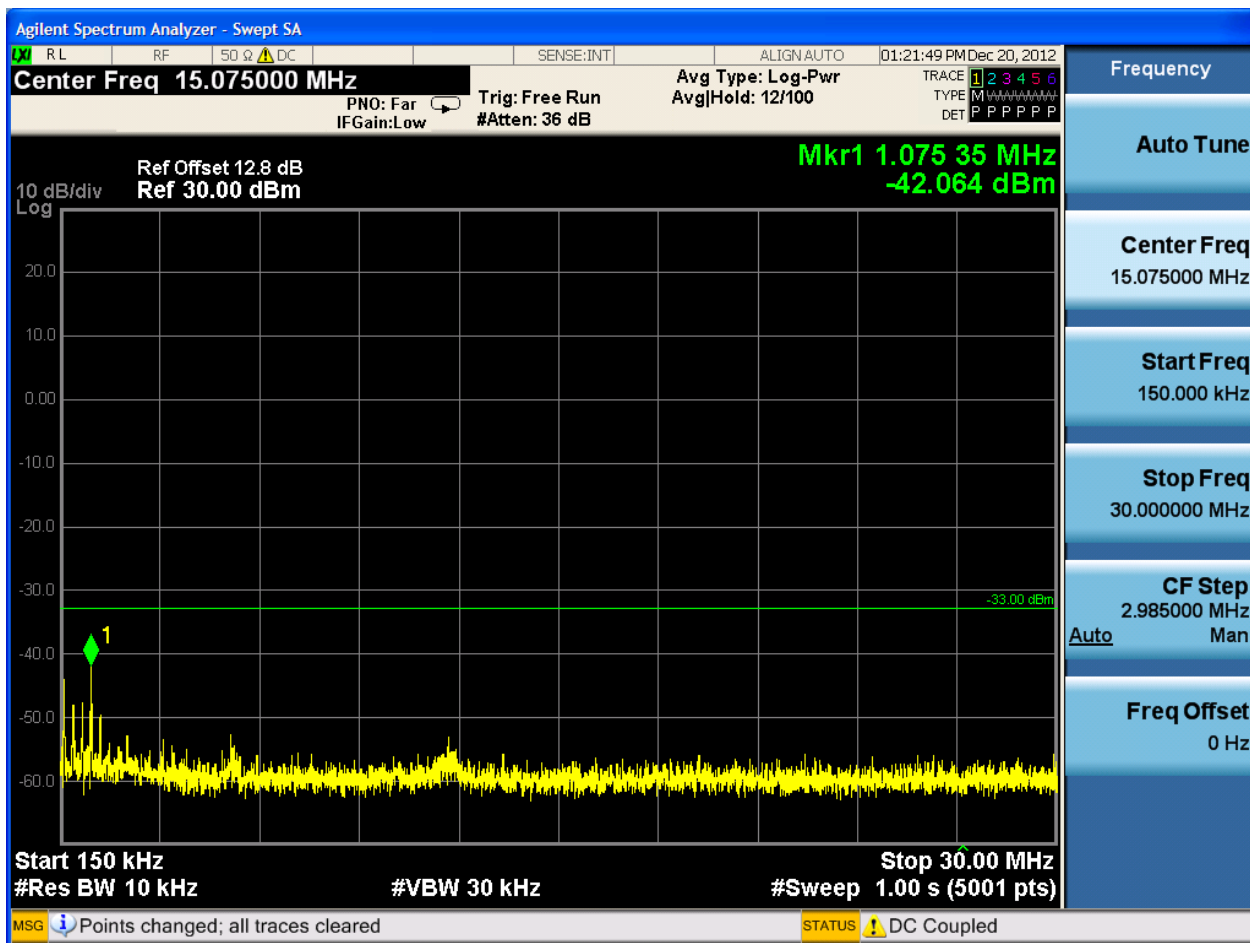






4.2.2.1.2 Test Channel = MCH



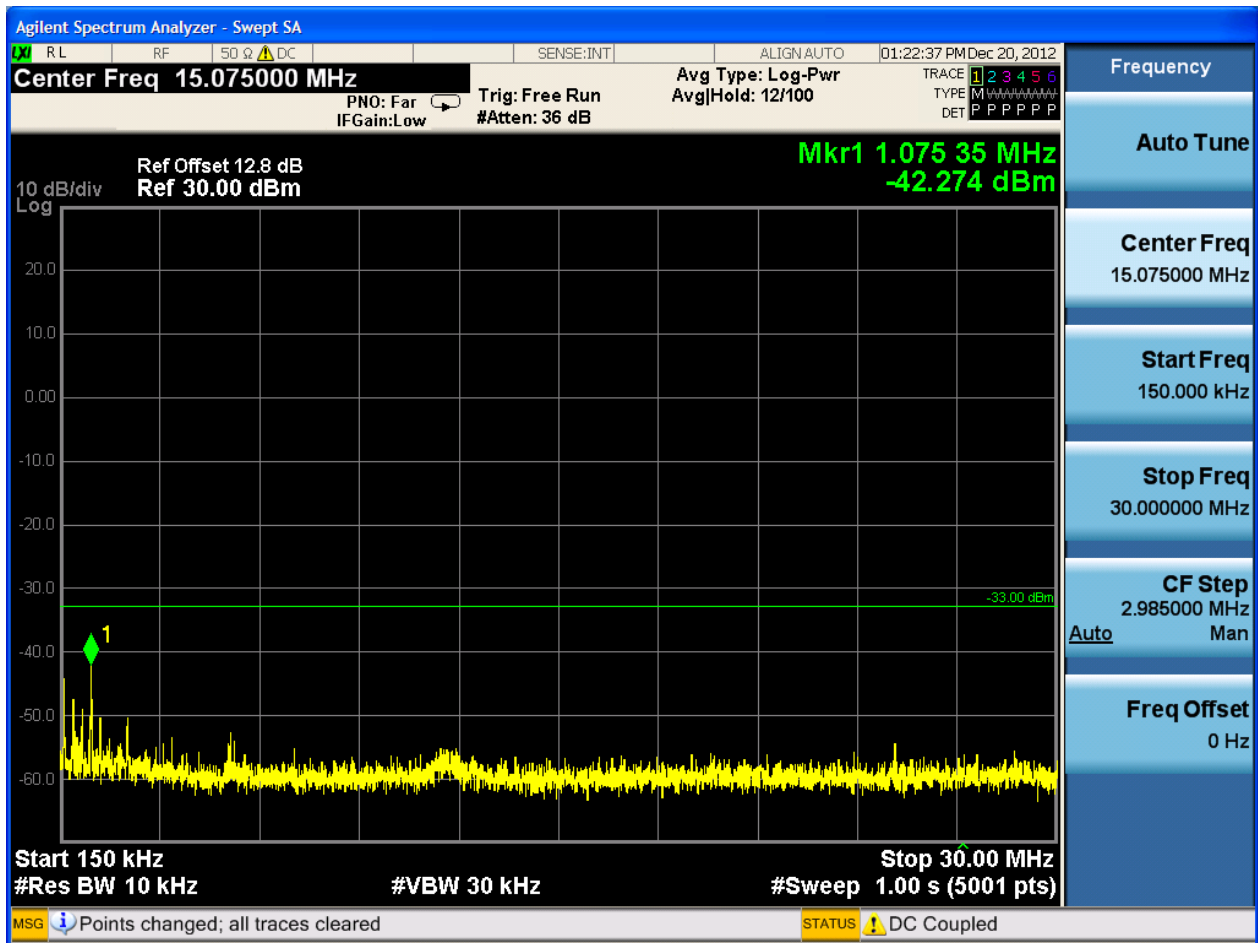






4.2.2.1.3 Test Channel = HCH







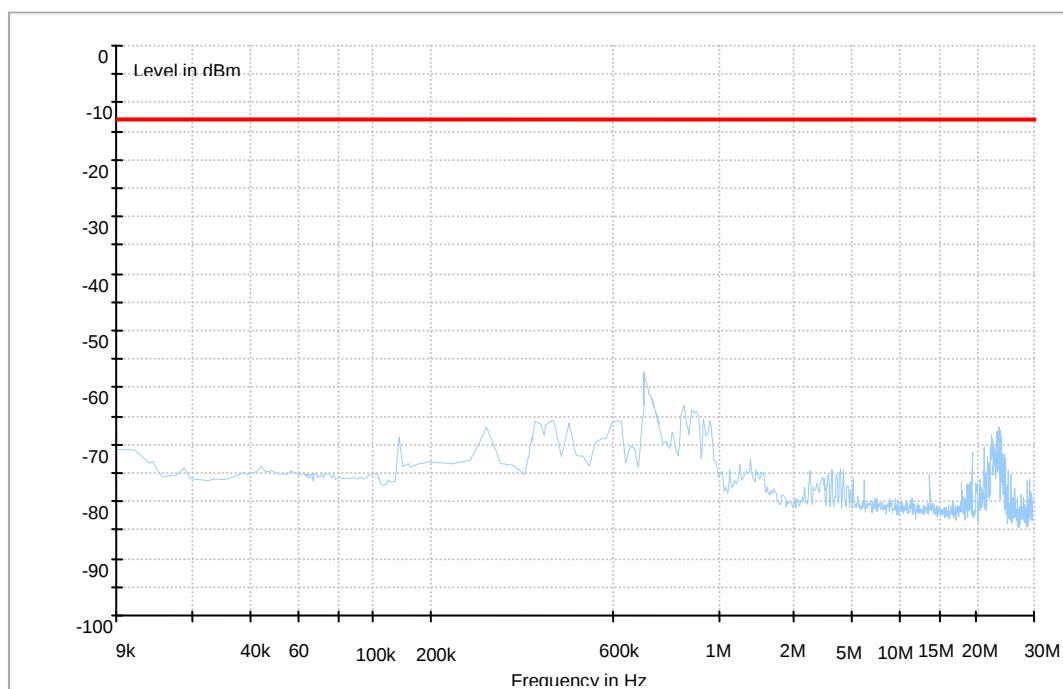
5Appendix_E: Radiated spurious emission

5.1For GSM

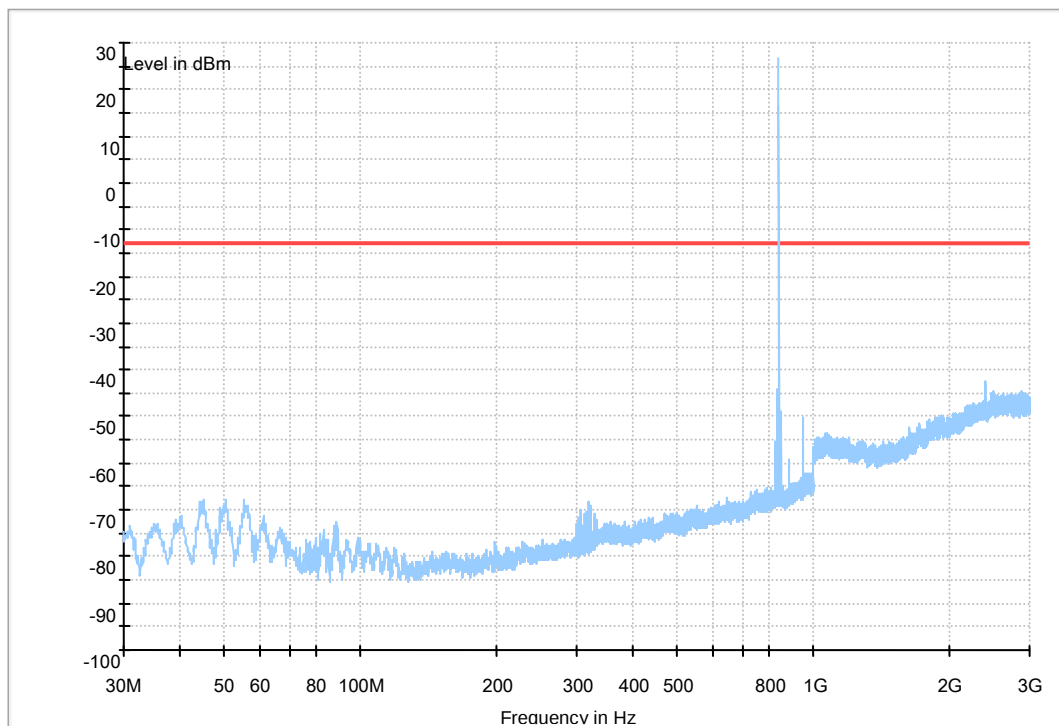
5.1.1Test Band=GSM850

5.1.1.1Test mode=GSM/TM1

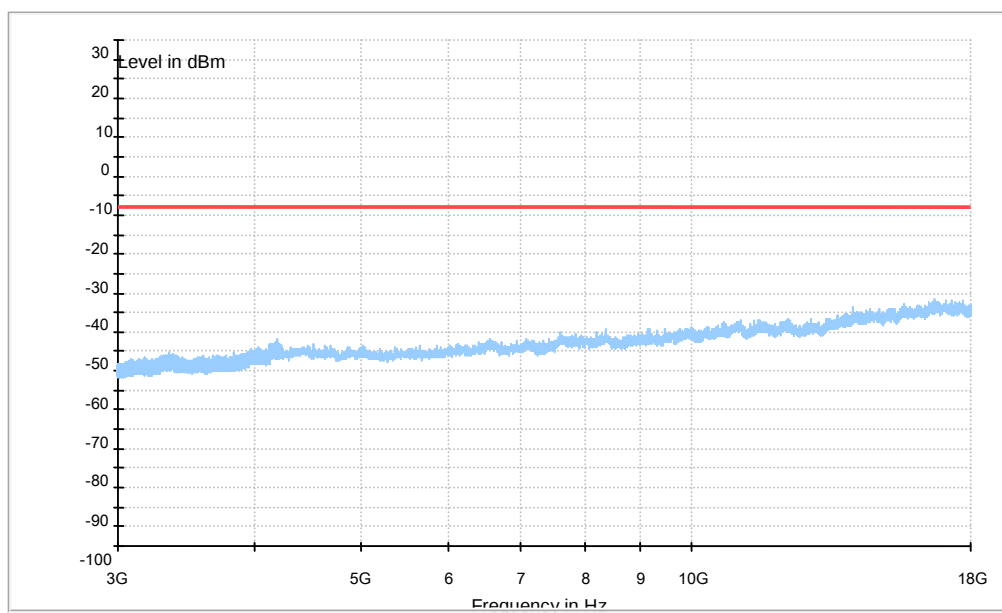
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

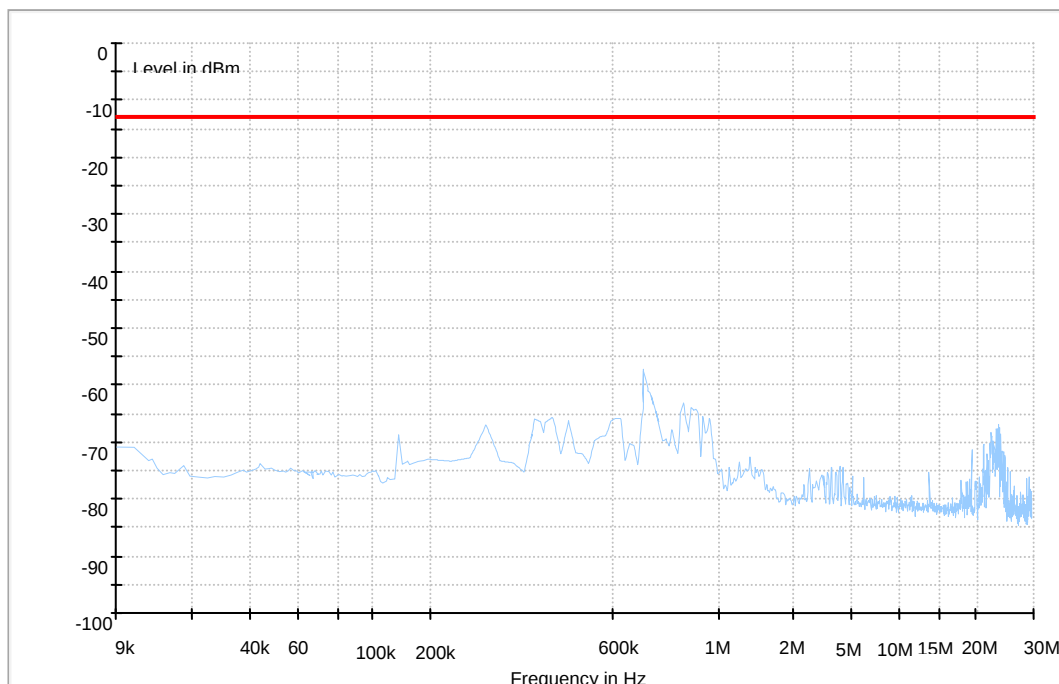


Traffic Mode (3GHz-18GHz)

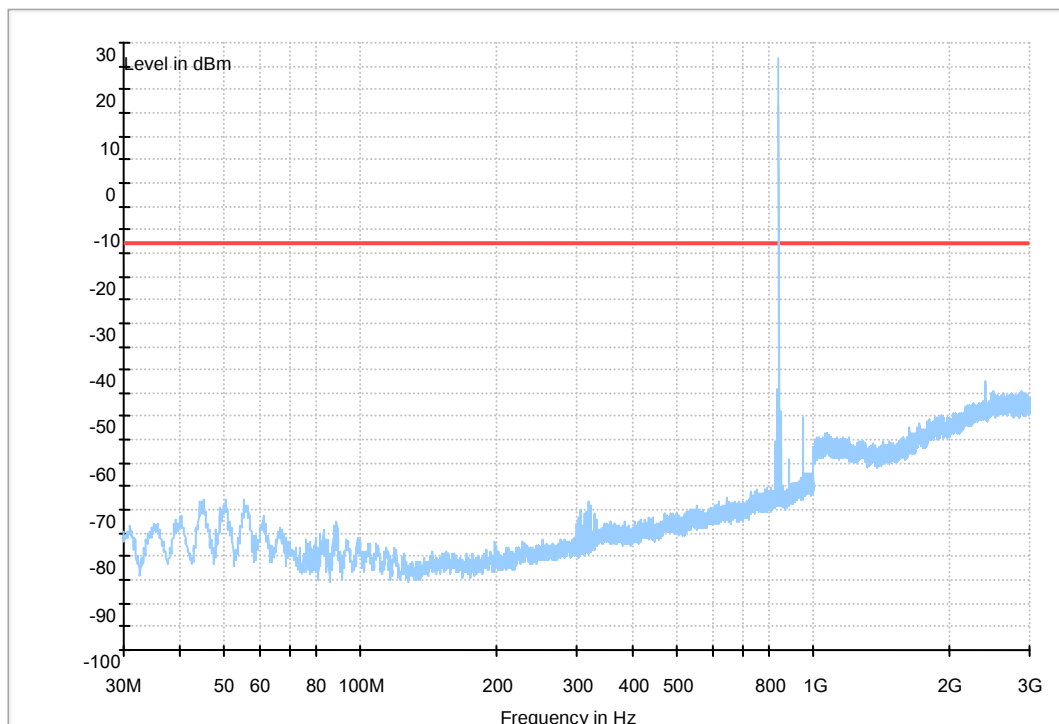


5.1.1.1 Test mode=GSM/TM2

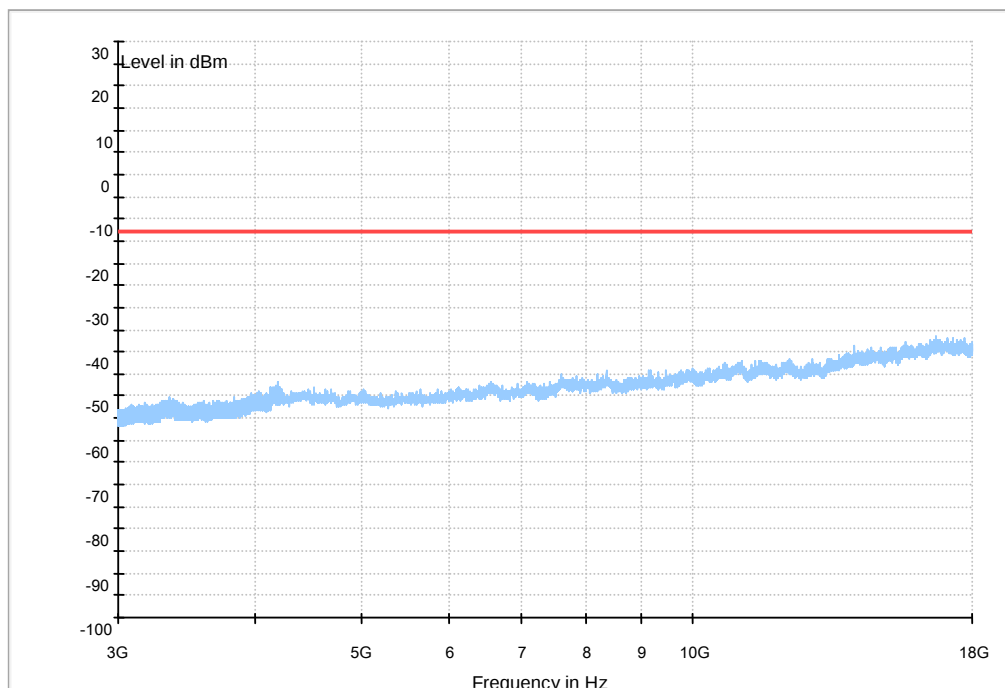
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



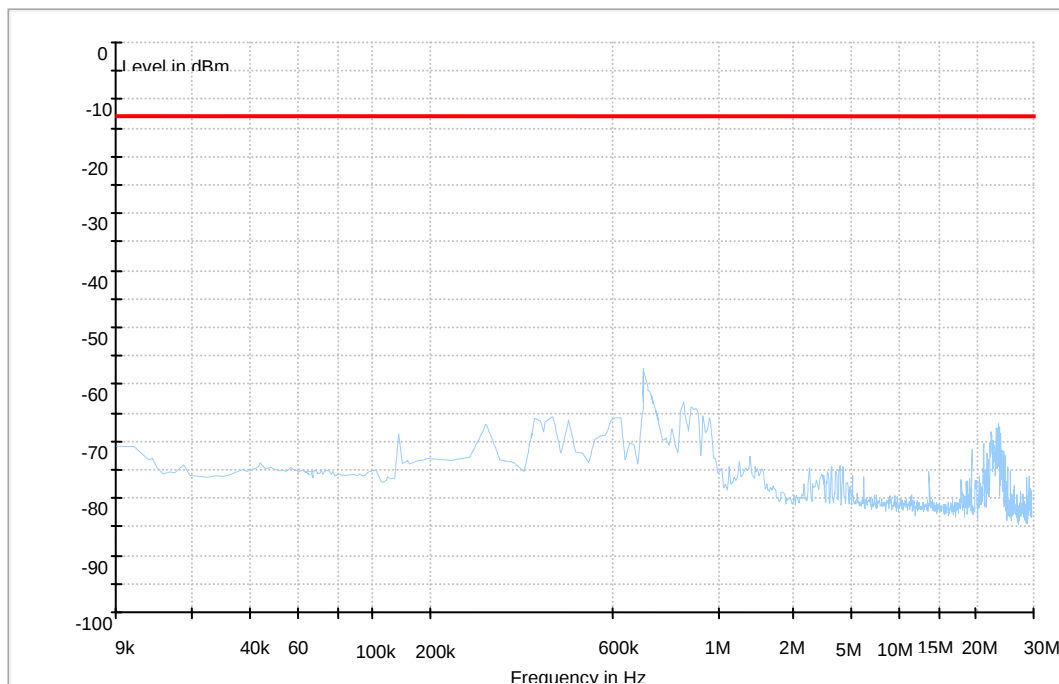
Traffic Mode (3GHz-18GHz)



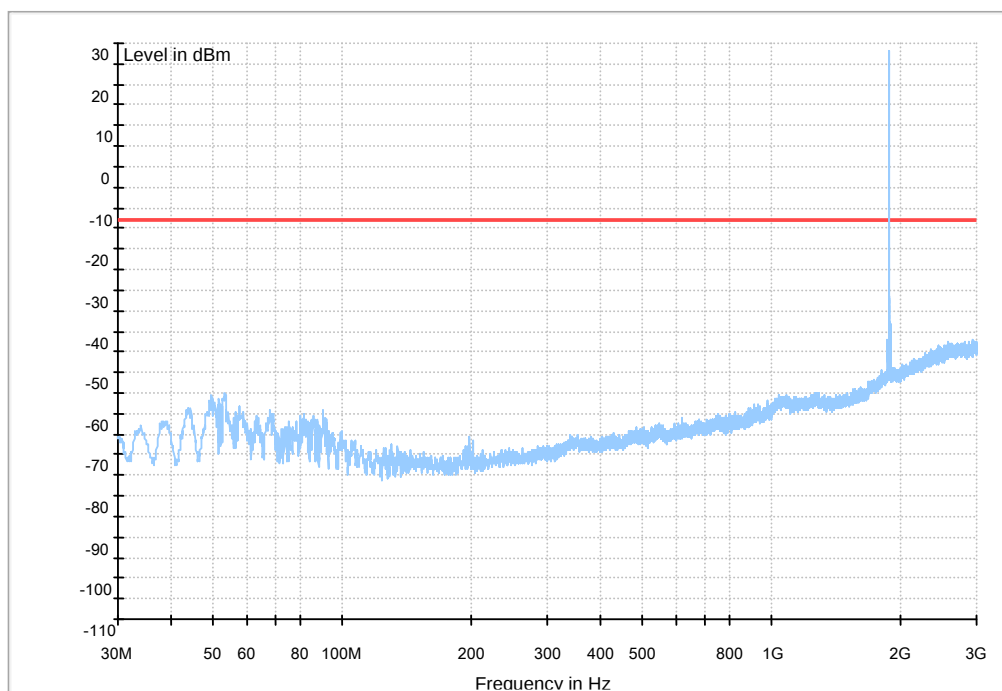
5.1.2 Test Band=GSM1900

5.1.2.1 Test mode=GSM/TM1

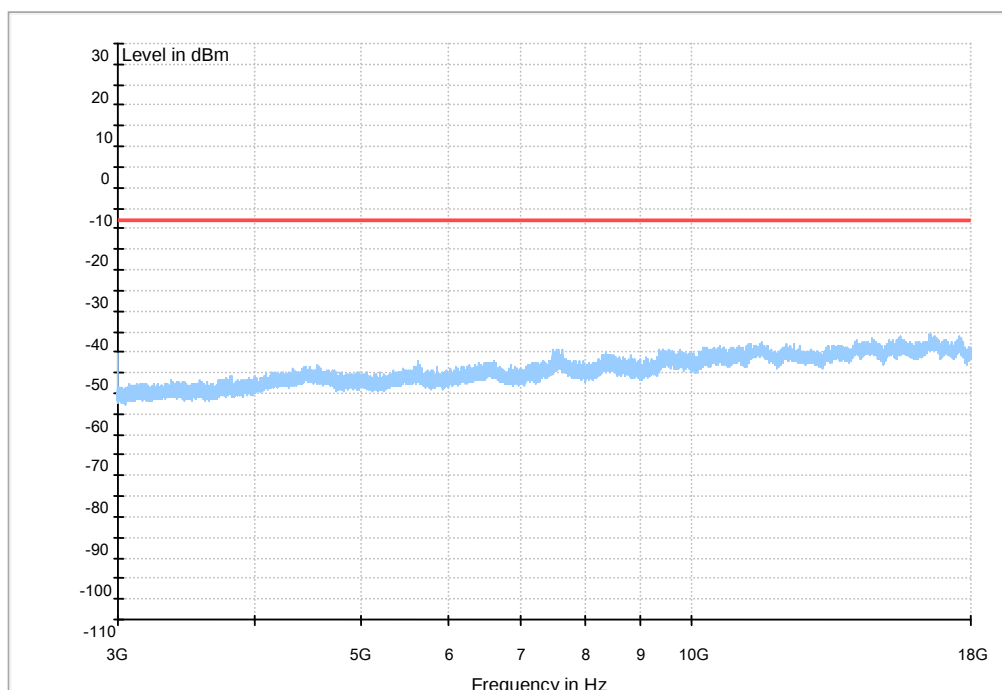
Traffic Mode (9kHz-30MHz)



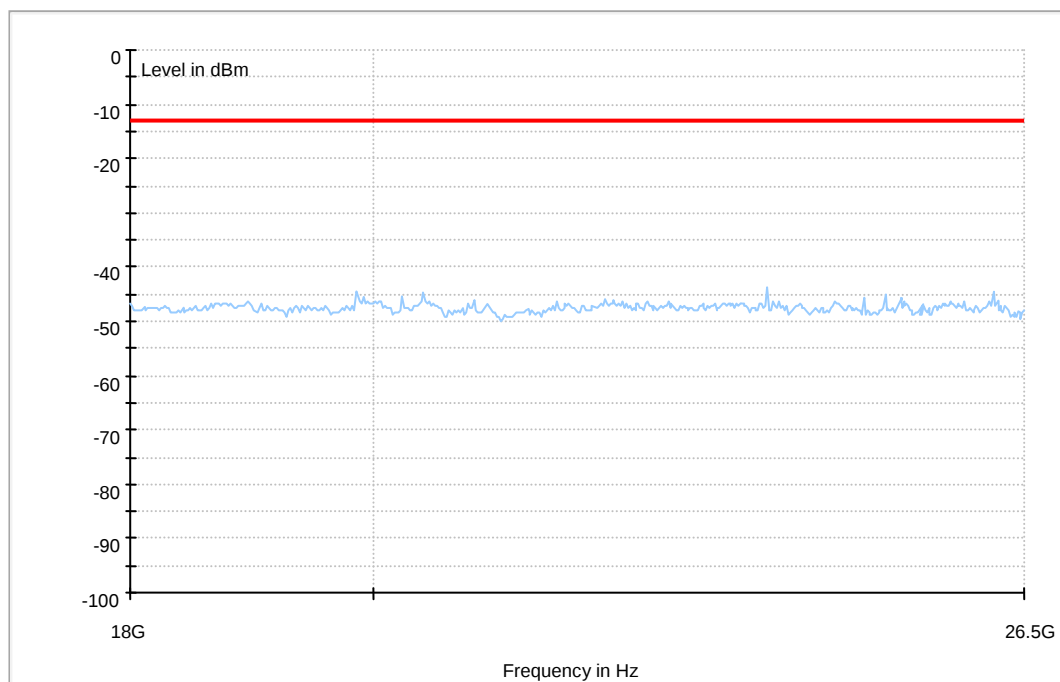
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

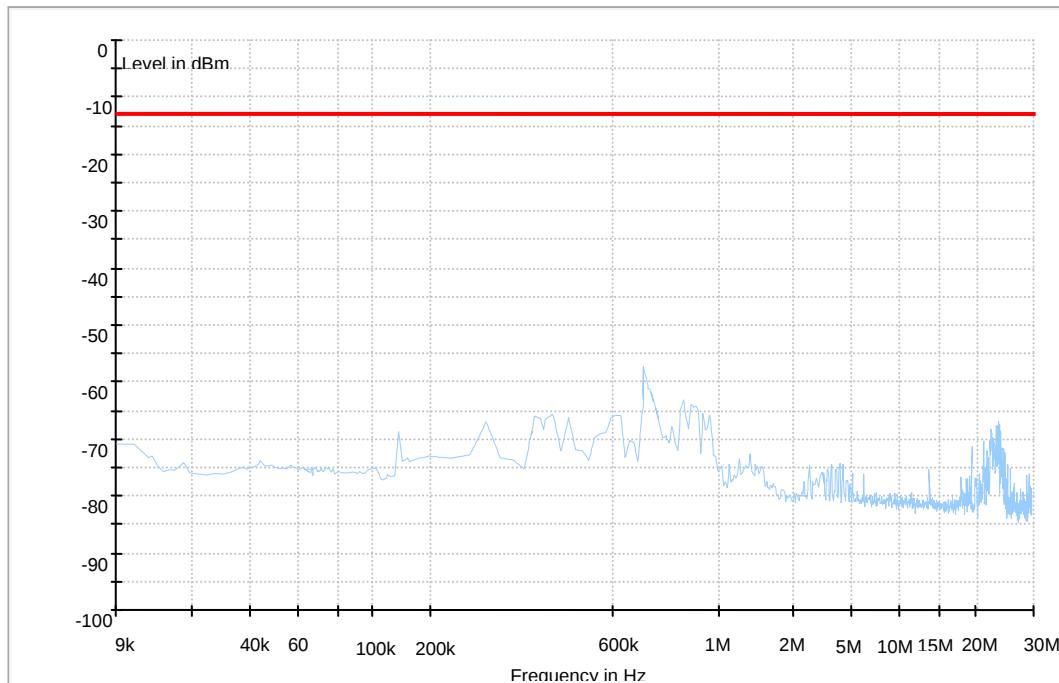


Traffic Mode (18GHz-26.5GHz)

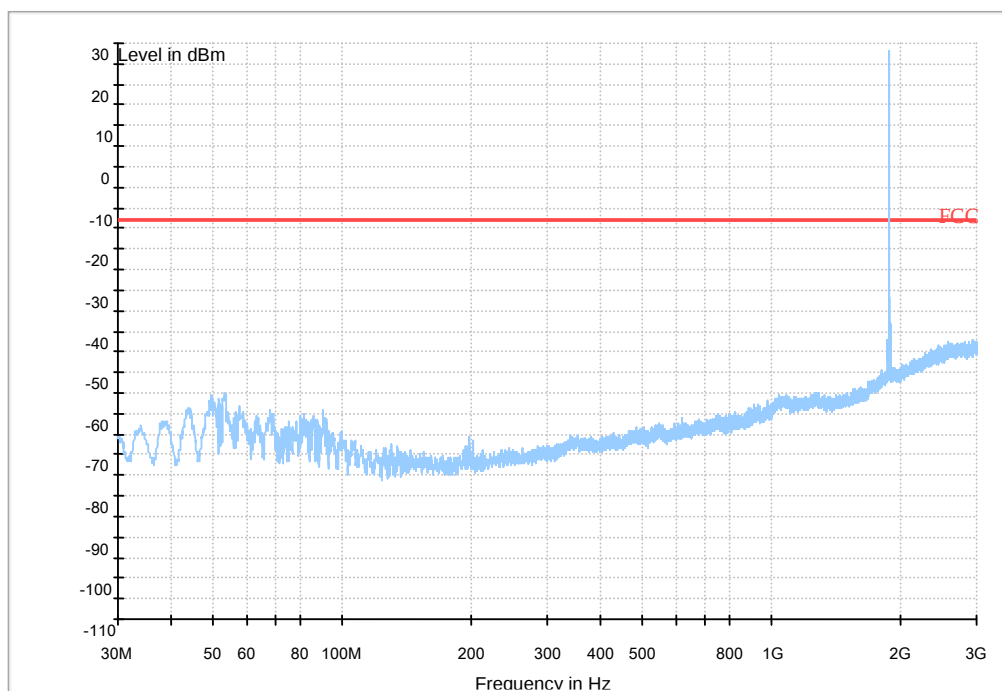


5.1.2.1 Test mode=GSM/TM2

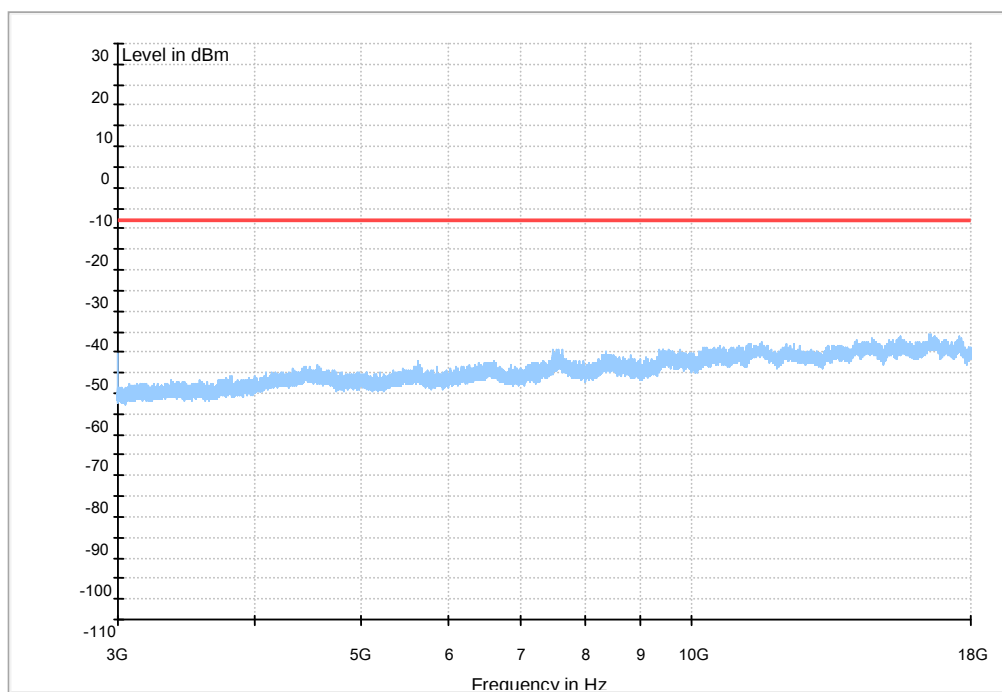
Traffic Mode (9kHz-30MHz)



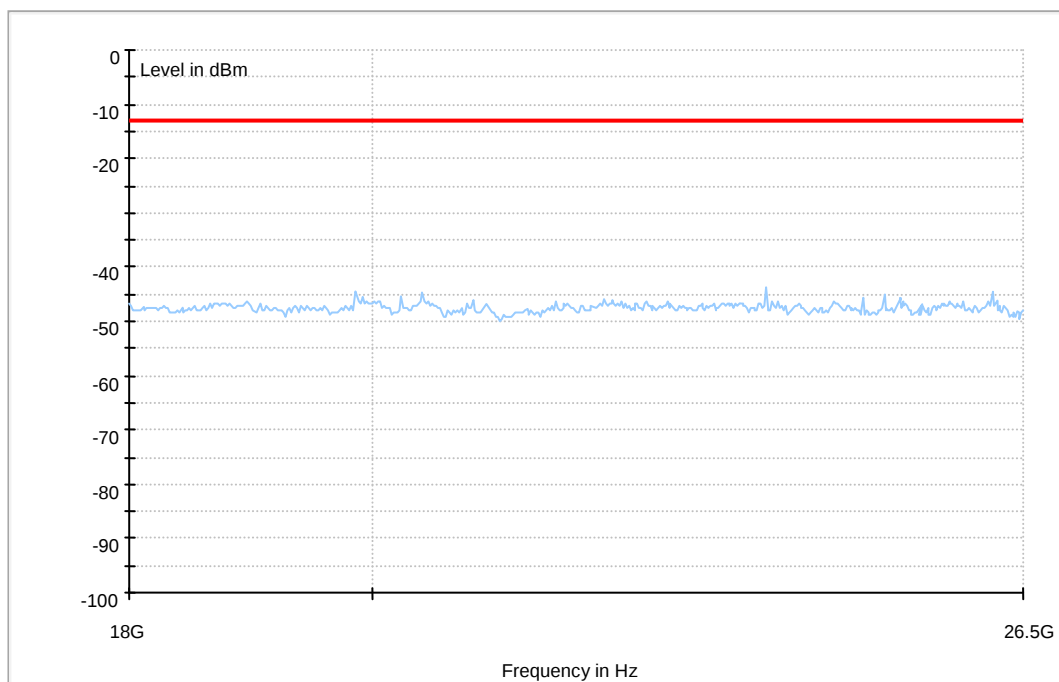
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)

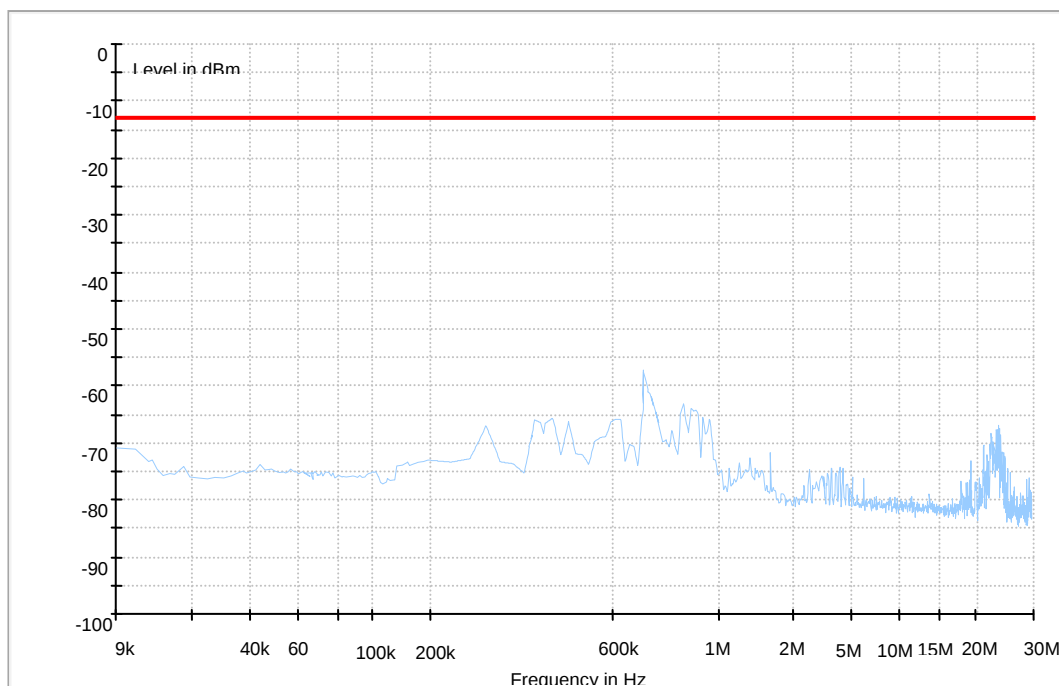


5.2For UMTS

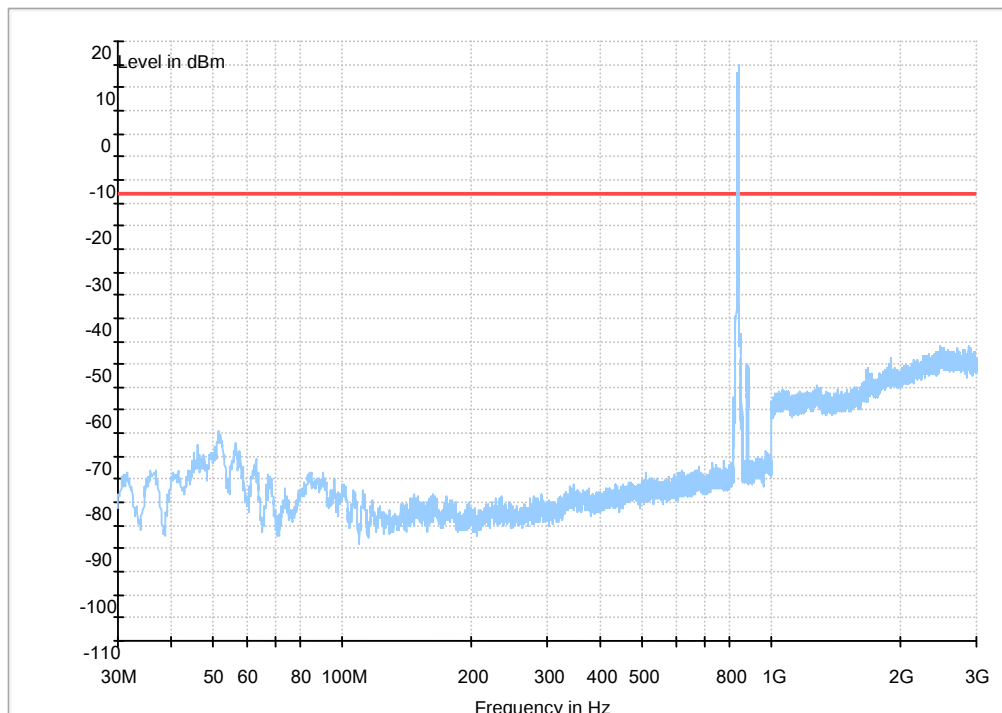
5.2.1Test Band=WCDMA850

5.2.1.1Test mode=UMTS/TM1

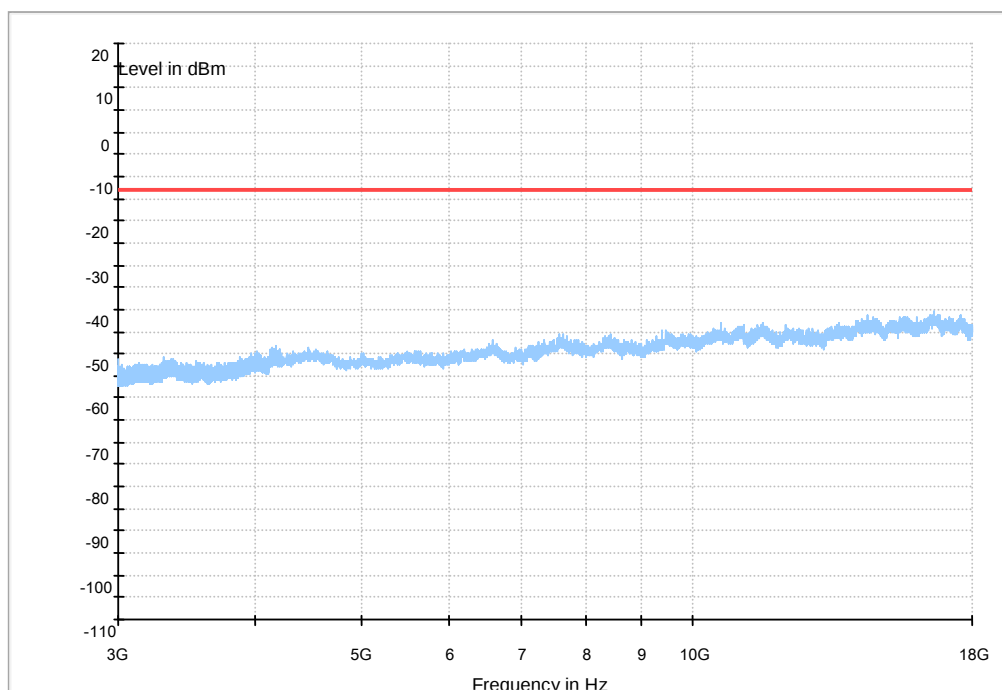
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

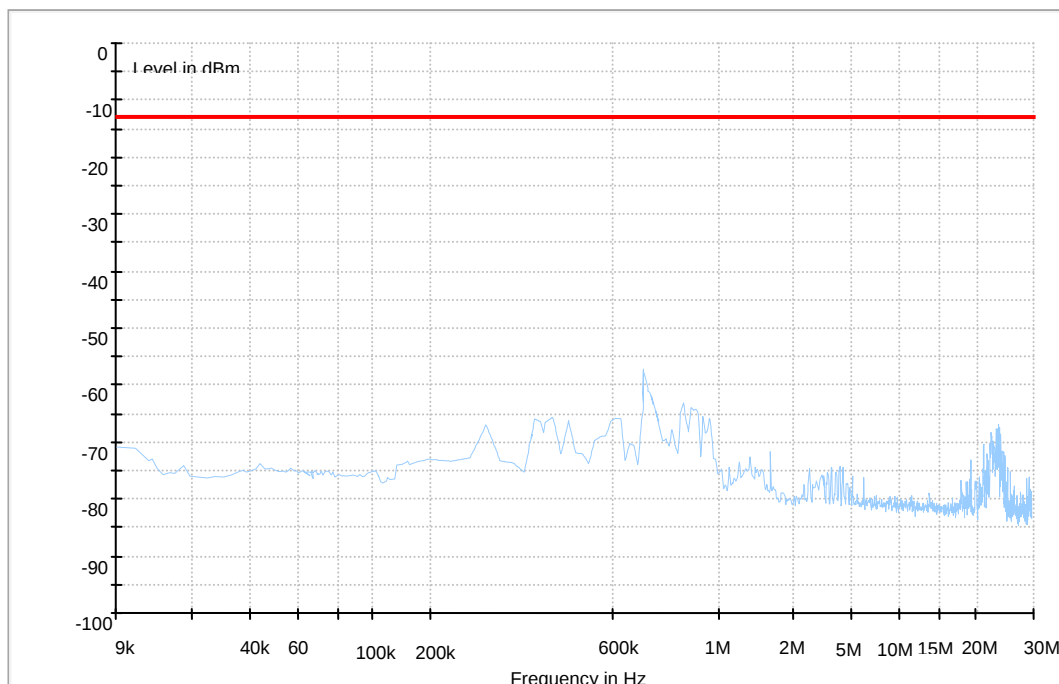


Traffic Mode (3GHz-18GHz)

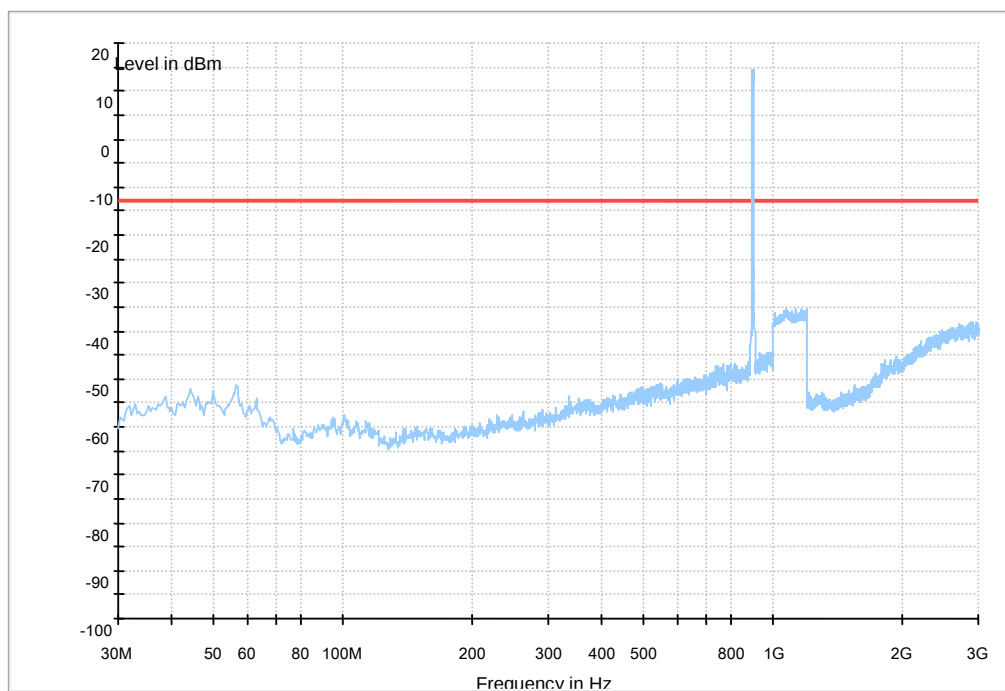


5.2.1.2 Test mode=UMTS/TM2

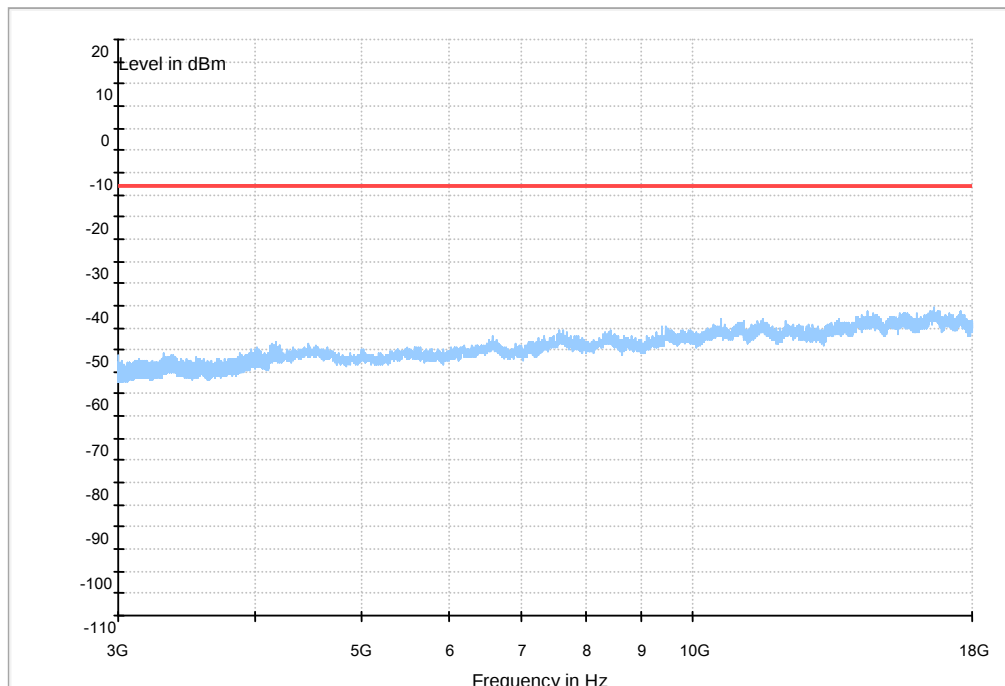
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

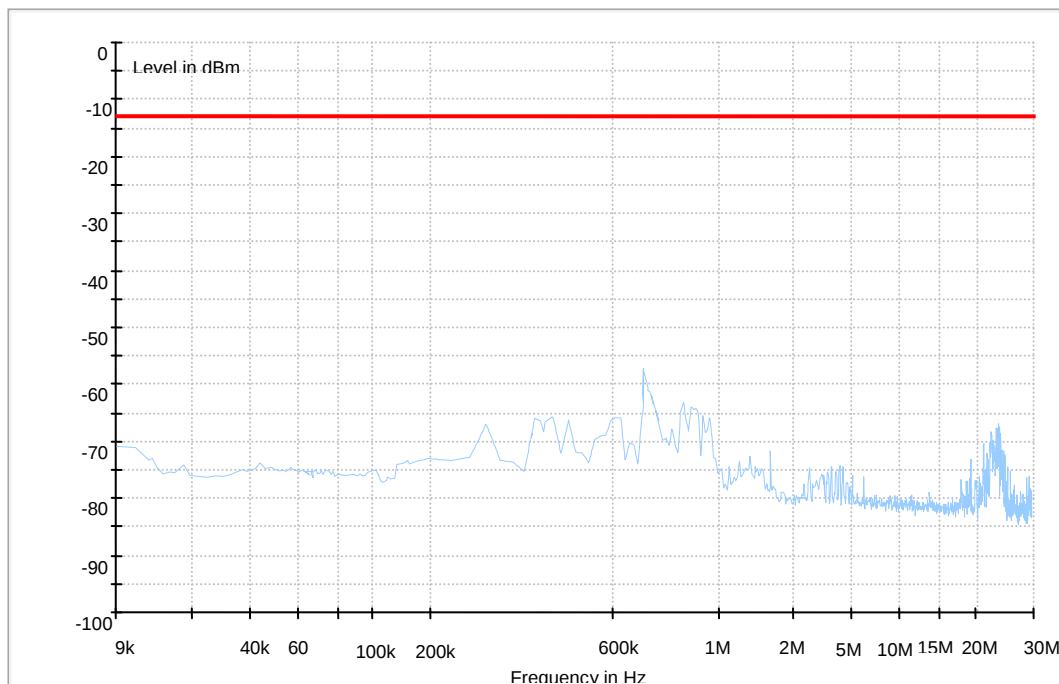


Traffic Mode (3GHz-18GHz)

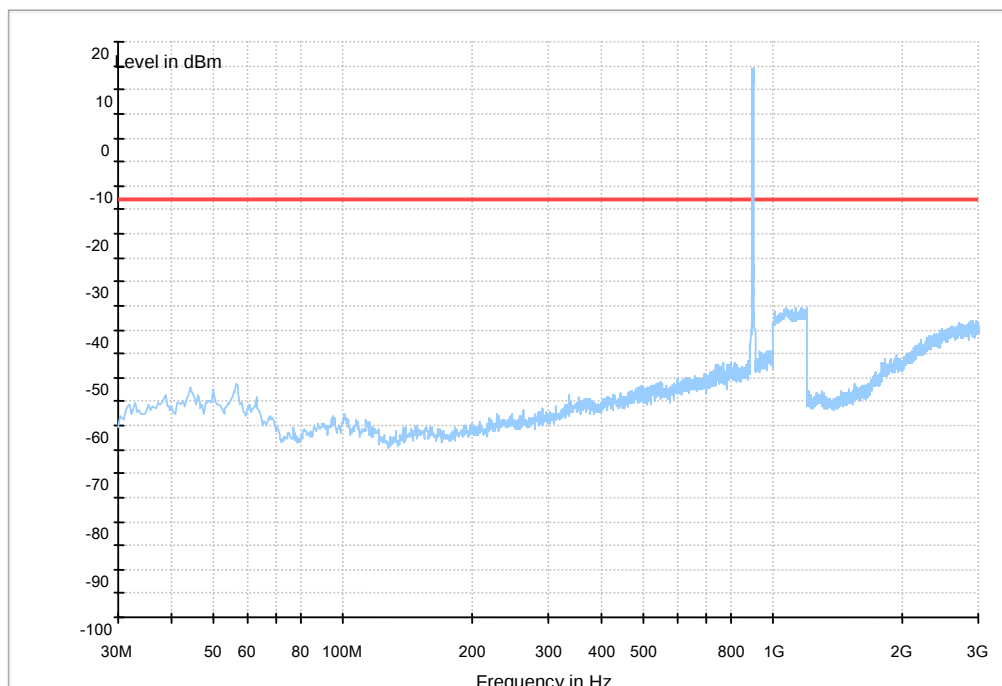


5.2.1.3 Test mode=UMTS/TM3

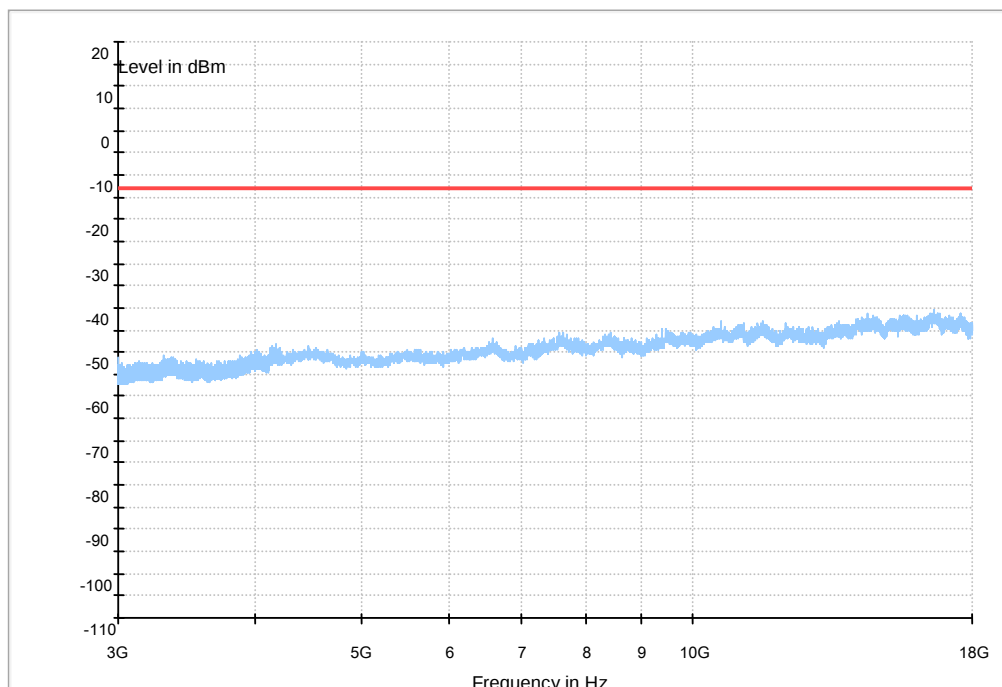
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



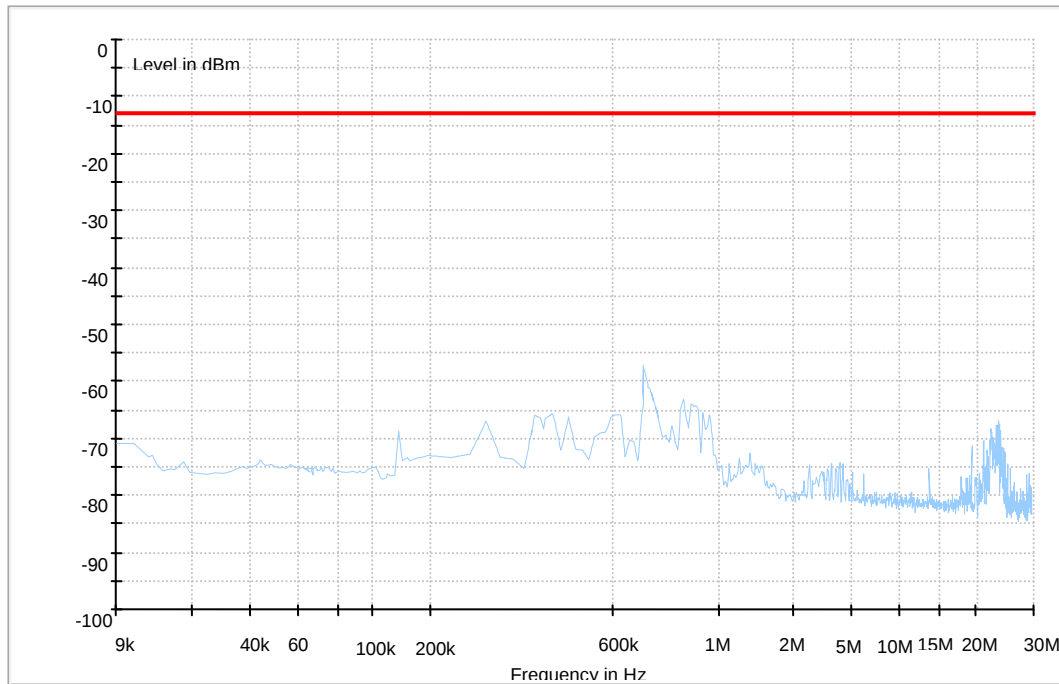
Traffic Mode (3GHz-18GHz)



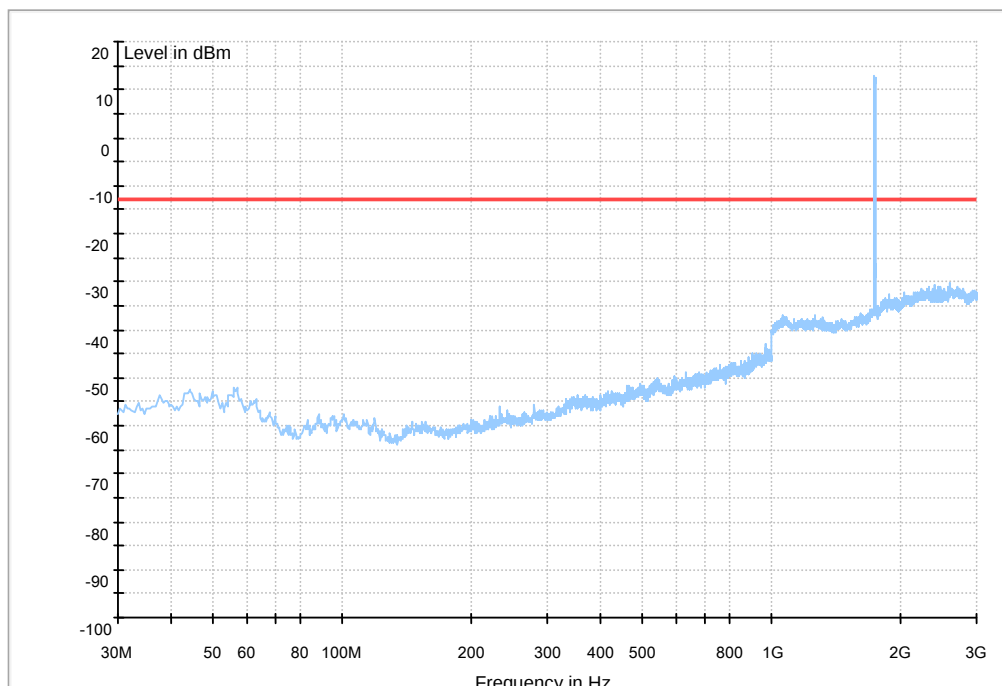
5.2.2 Test Band=WCDMA1700

5.2.2.1 Test mode=UMTS/TM1

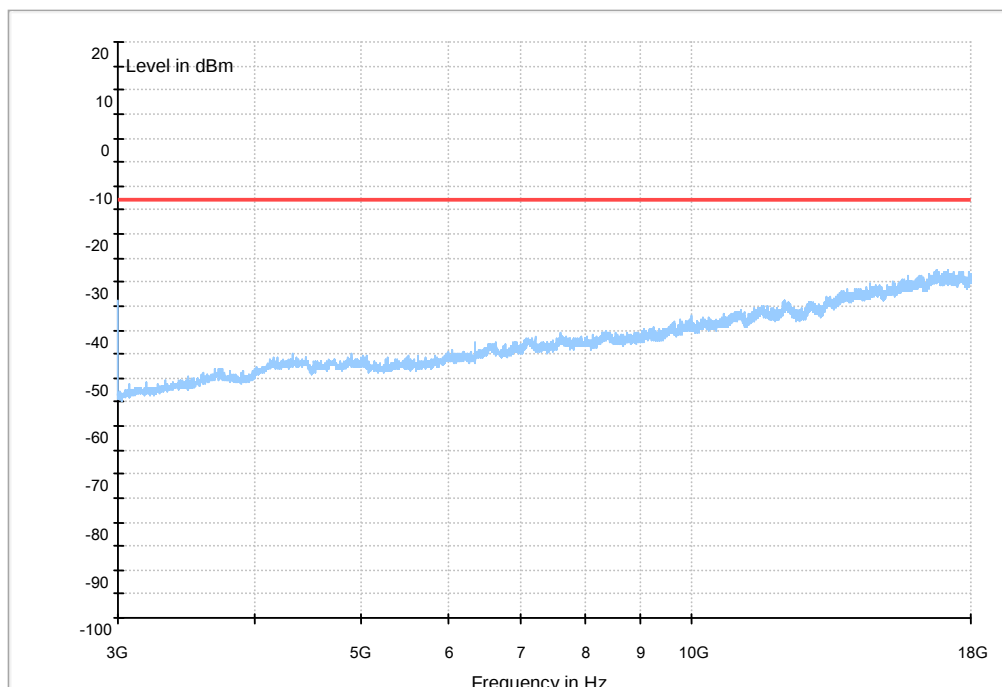
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

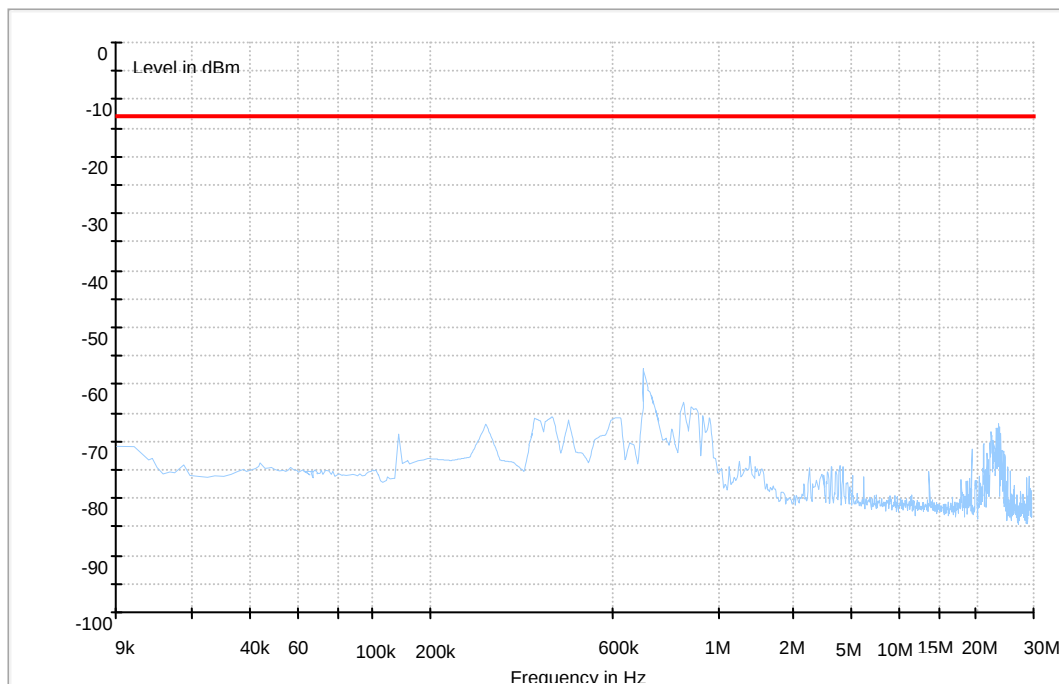


Traffic Mode (3GHz-18GHz)

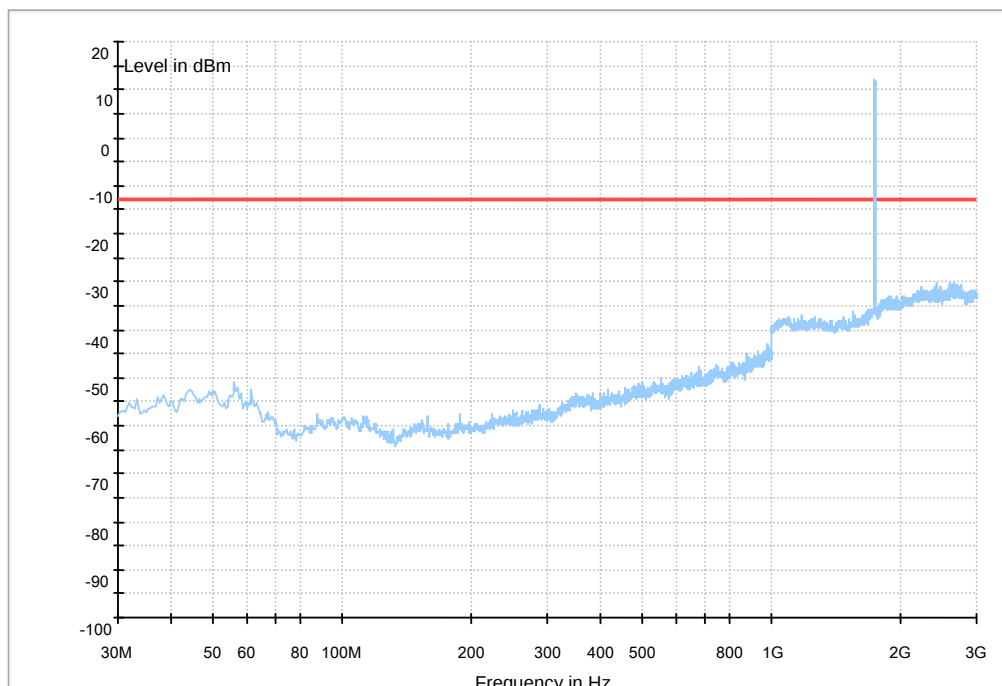


5.2.2.2 Test mode=UMTS/TM2

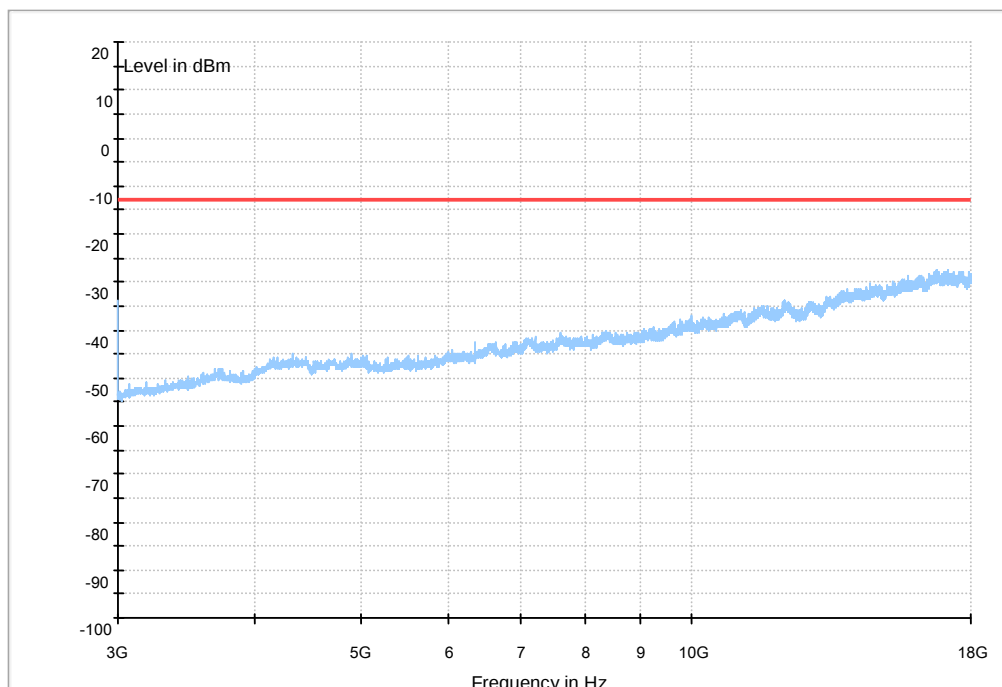
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

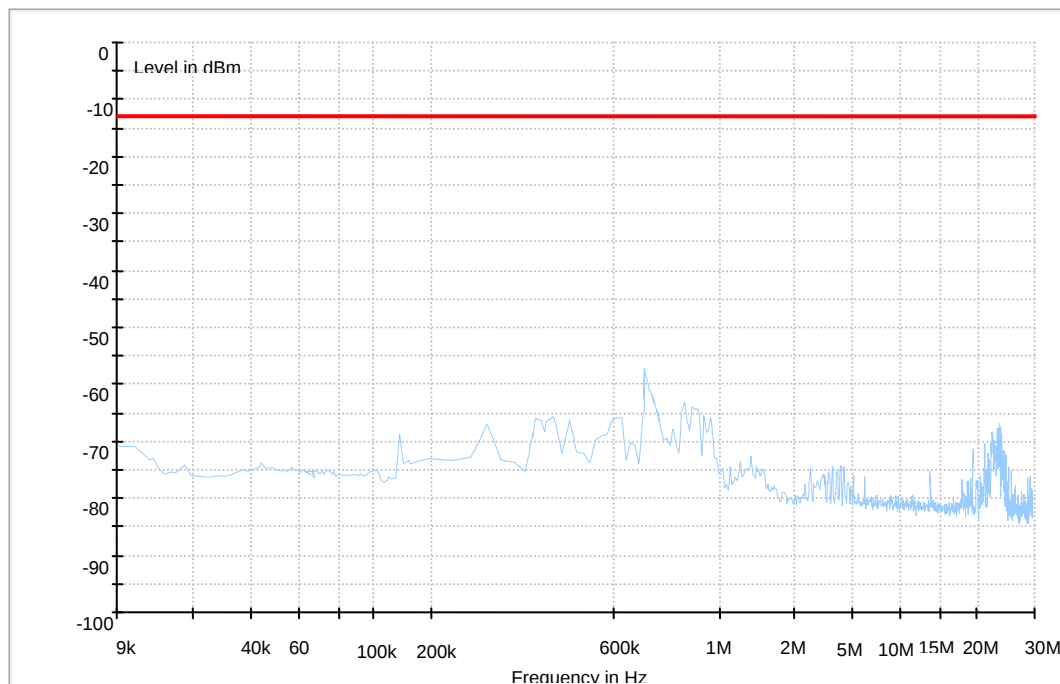


Traffic Mode (3GHz-18GHz)

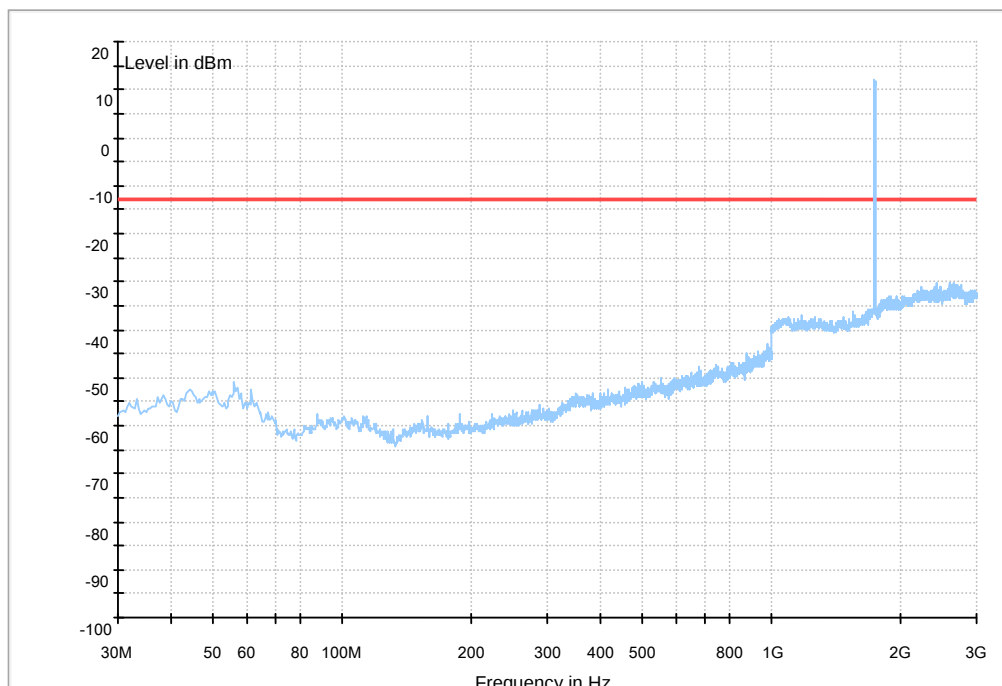


5.2.2.3 Test mode=UMTS/TM3

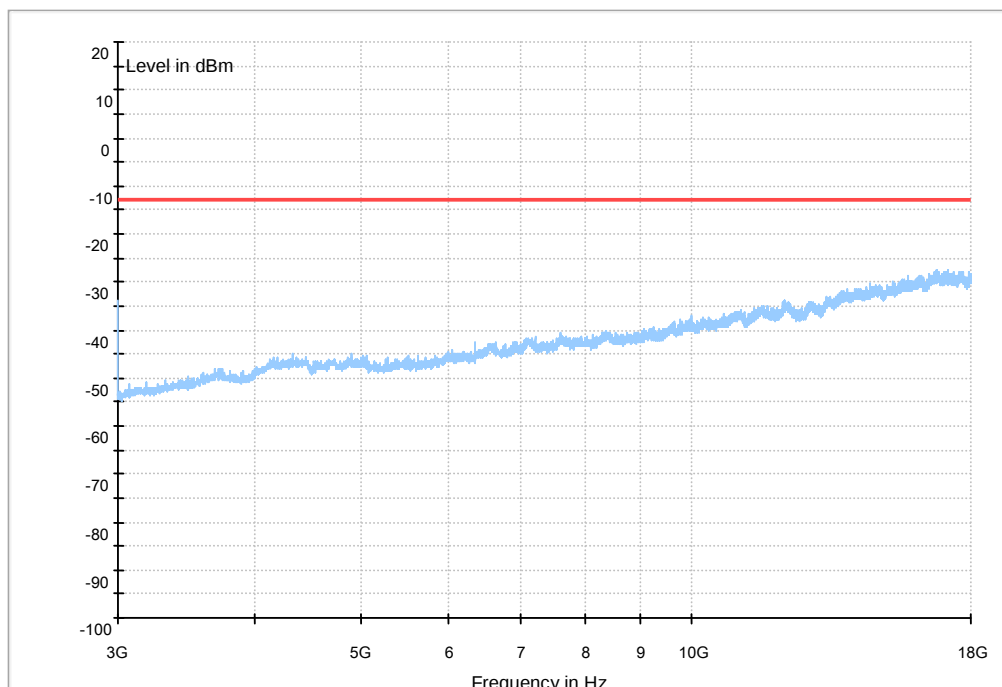
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



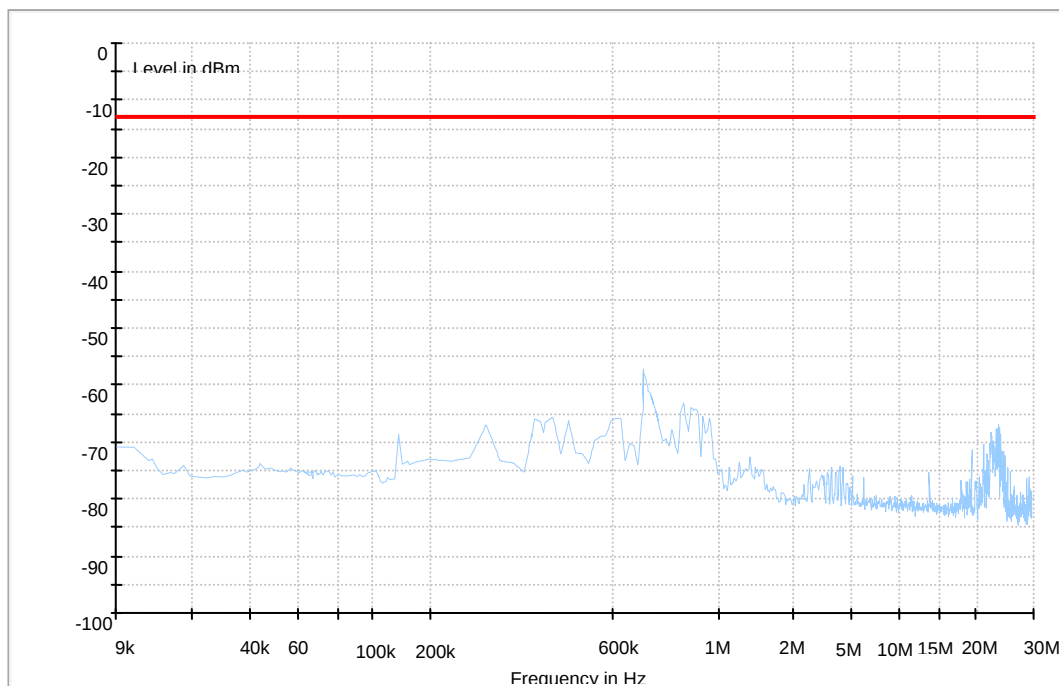
Traffic Mode (3GHz-18GHz)



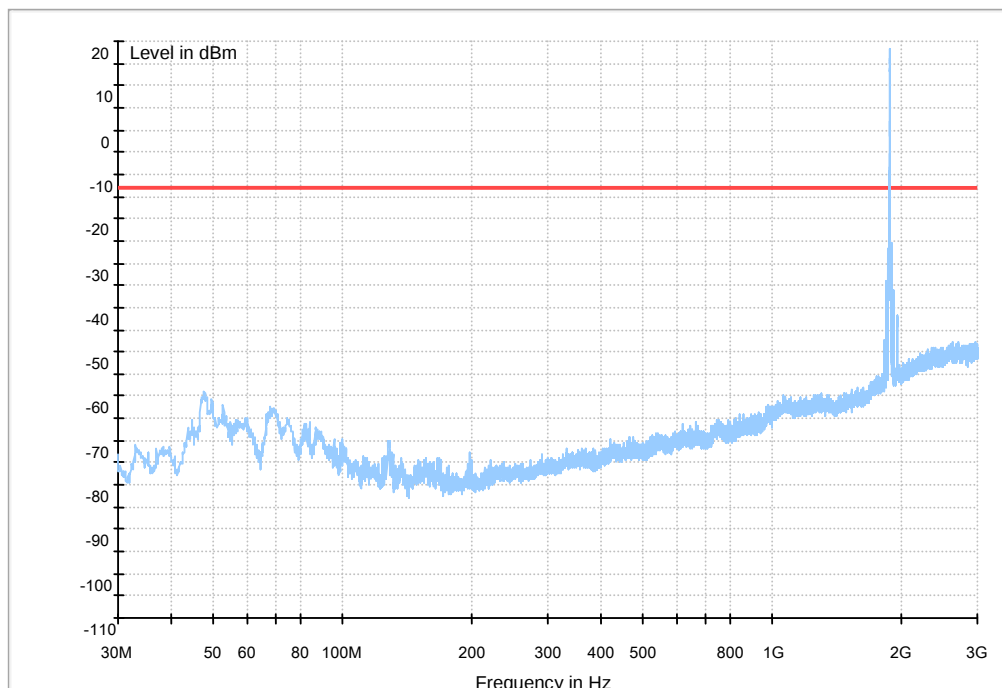
5.2.3 Test Band=WCDMA1900

5.2.2.1 Test mode=UMTS/TM1

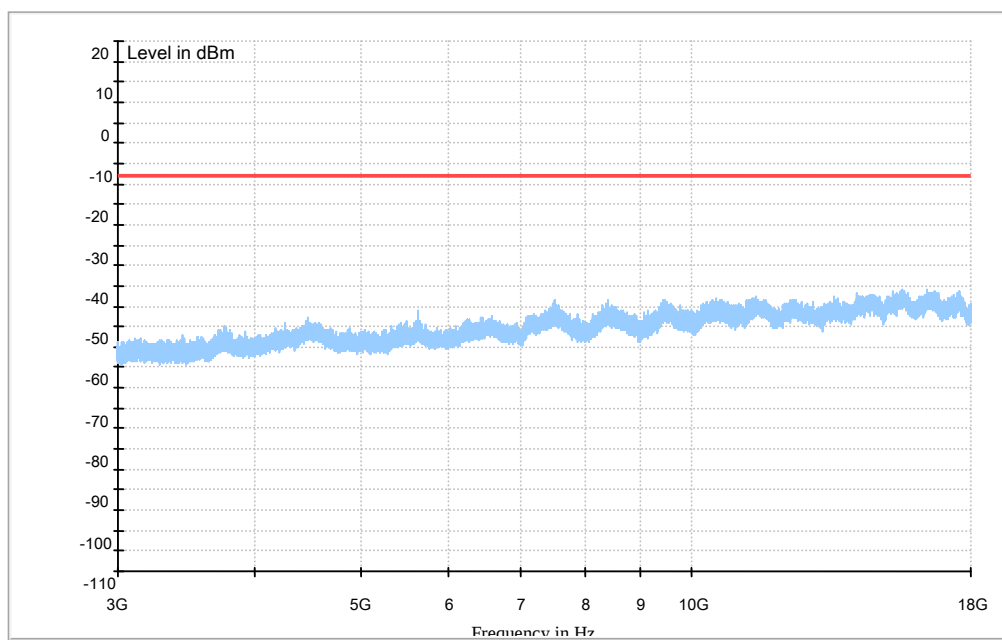
Traffic Mode (9kHz-30MHz)



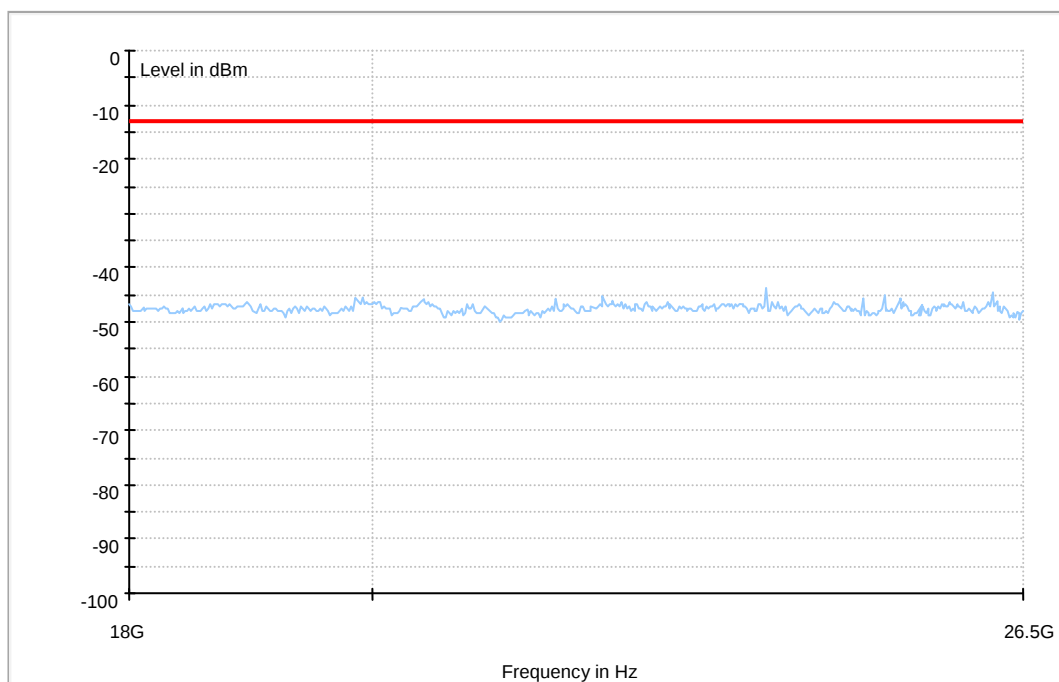
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

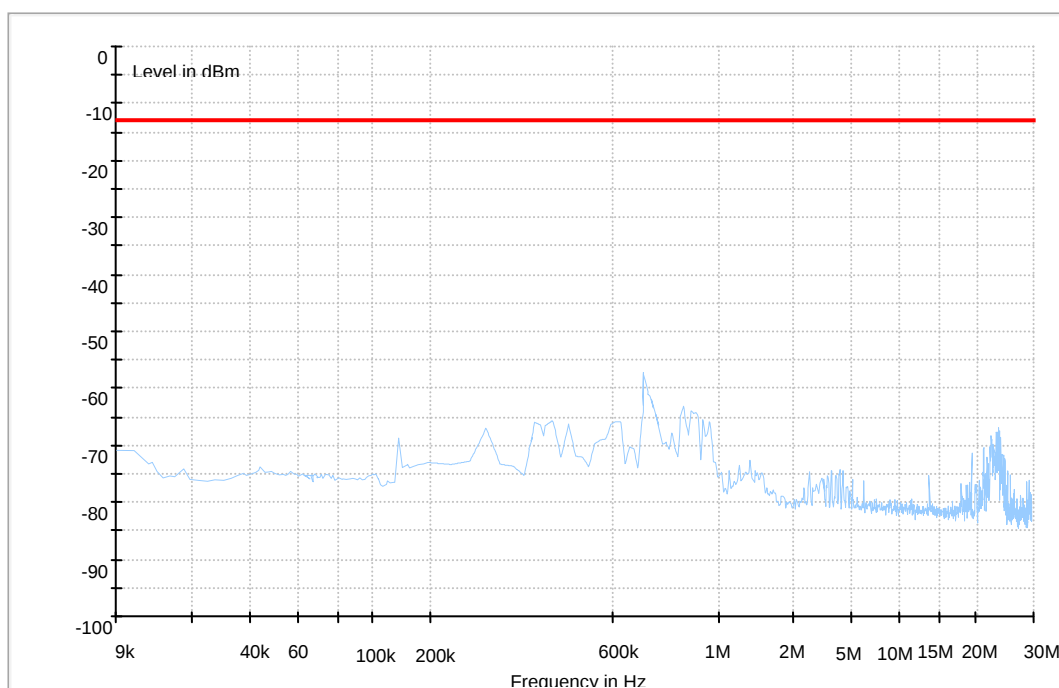


Traffic Mode (18GHz-26.5GHz)

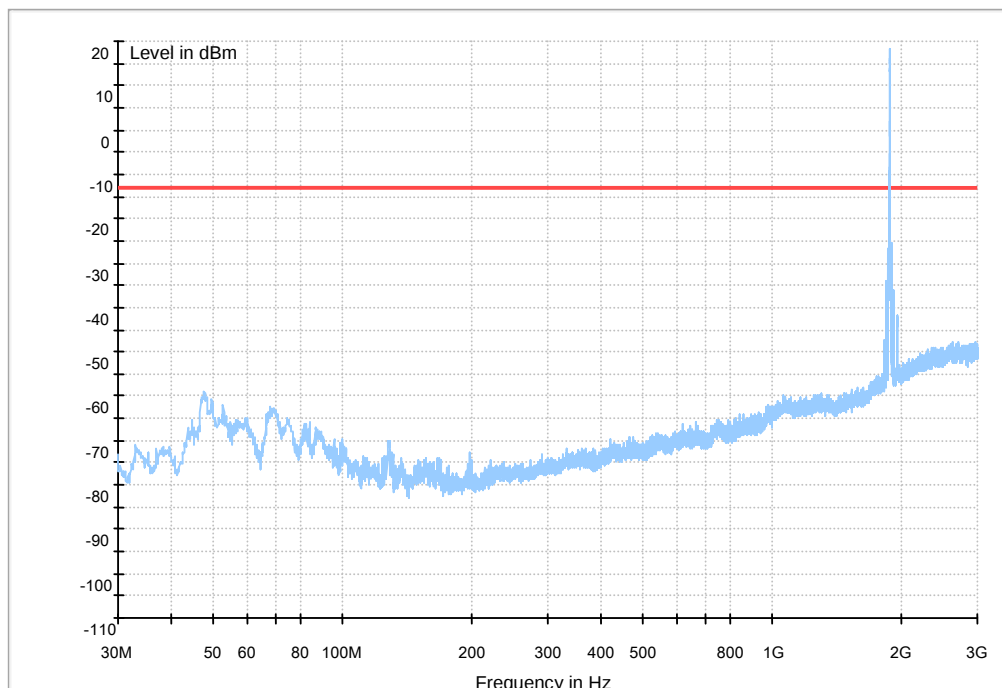


5.2.2.2 Test mode=UMTS/TM2

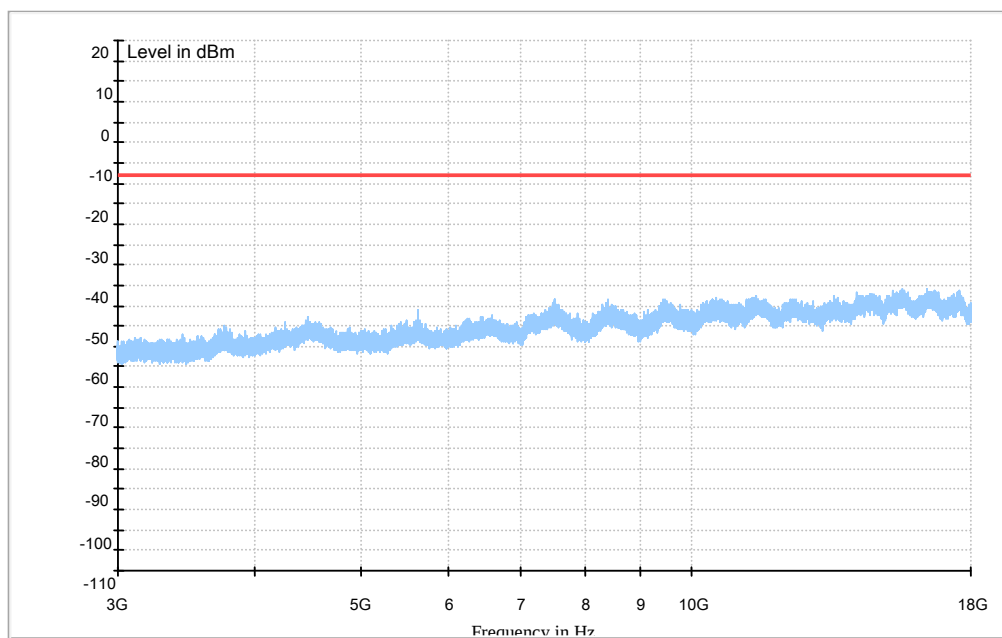
Traffic Mode (9kHz-30MHz)



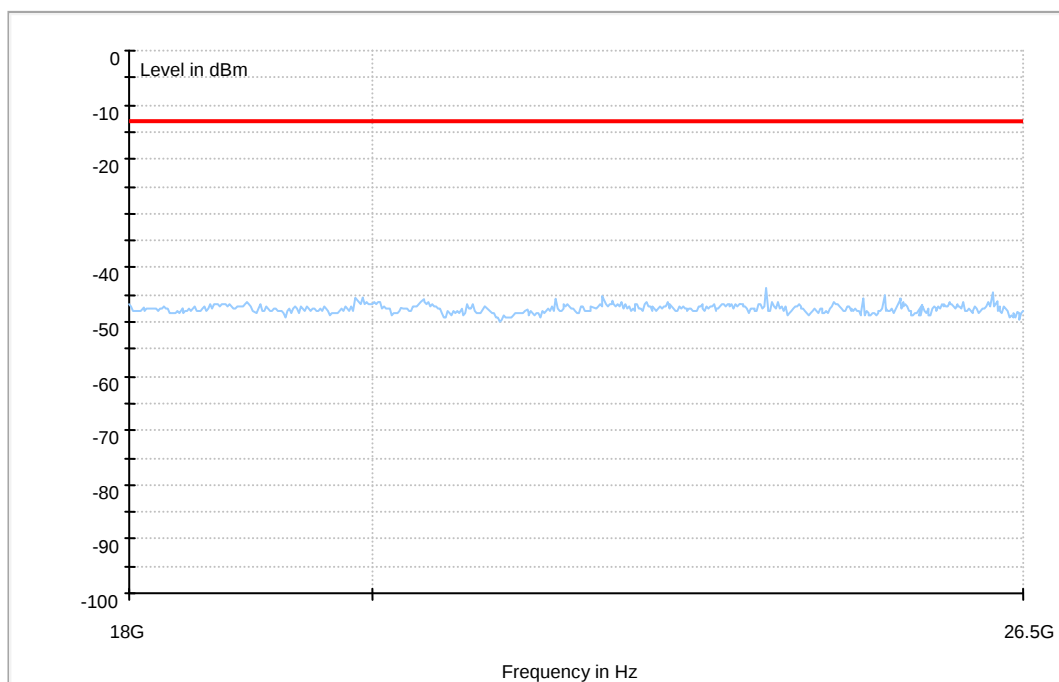
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

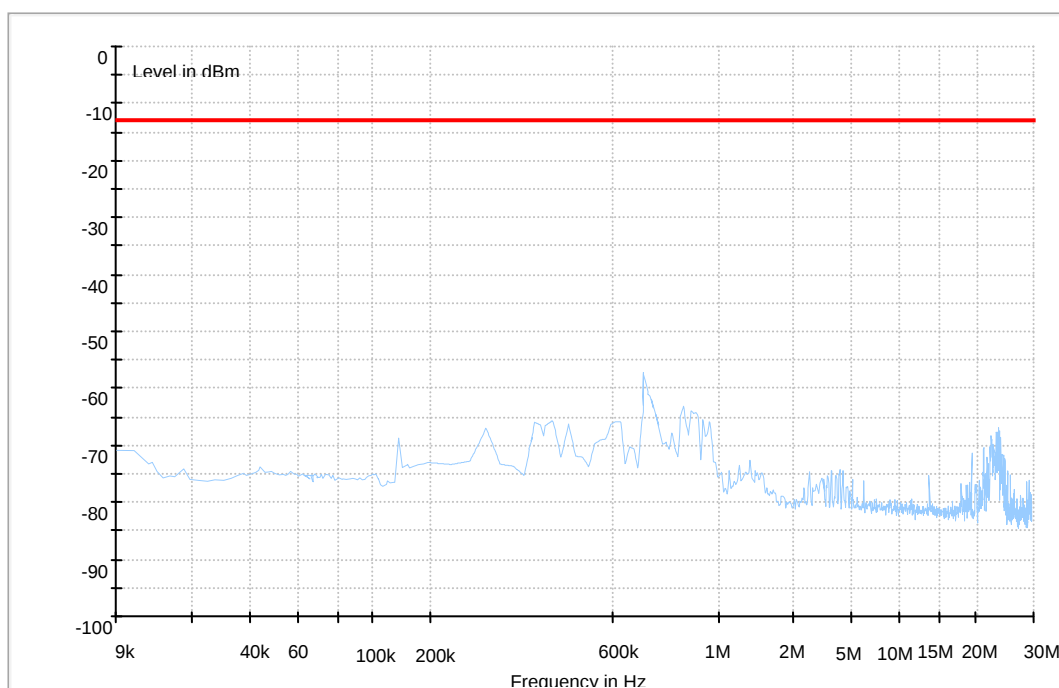


Traffic Mode (18GHz-26.5GHz)

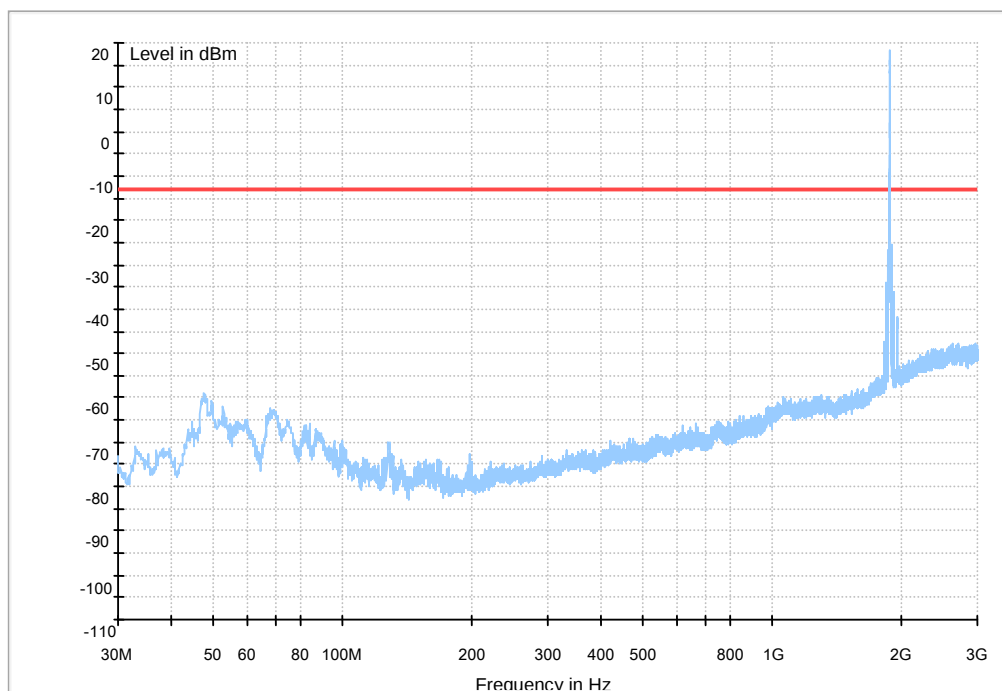


5.2.3.3 Test mode=UMTS/TM3

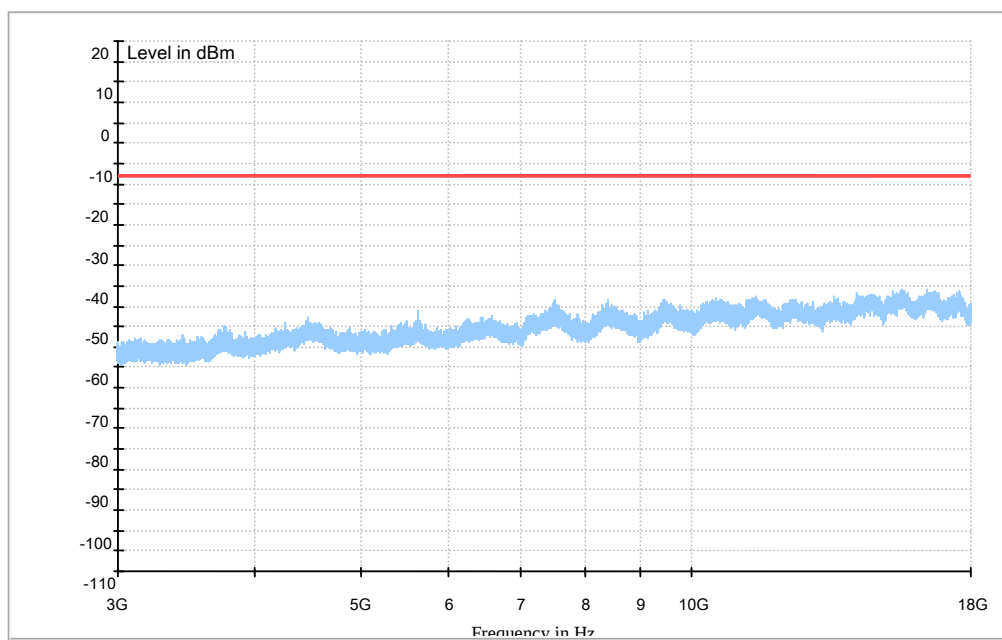
Traffic Mode (9kHz-30MHz)



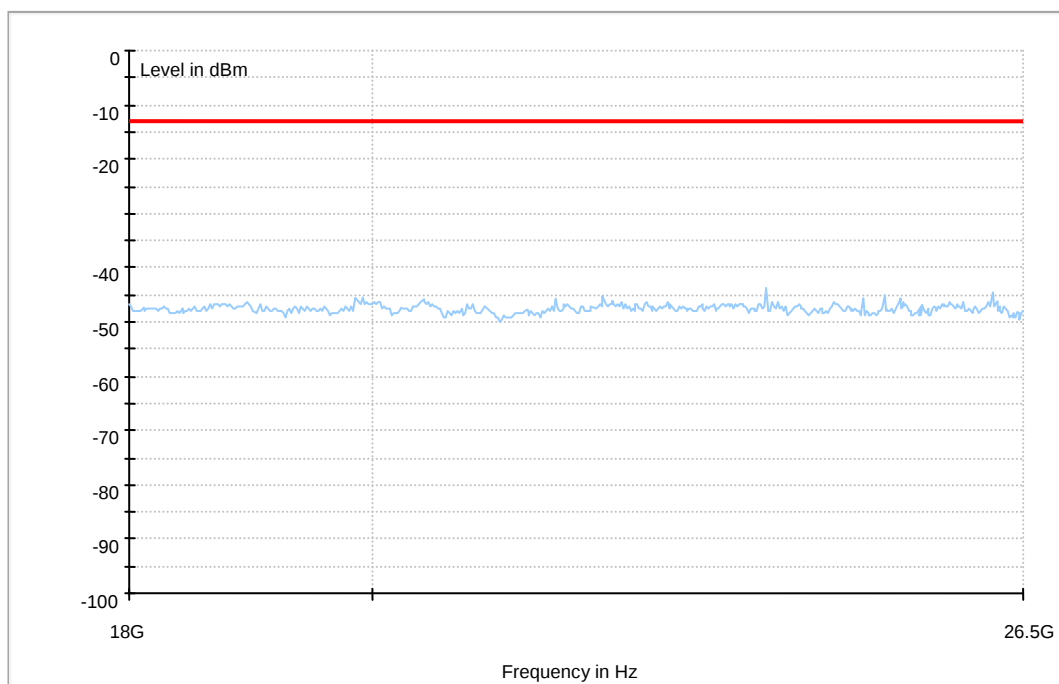
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)



6Appendix_F: Frequency Stability

6.1 For GSM

6.1.1Frequency 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	-3.26	-0.00517	±2.5	PASS
				VN	-0.32	-0.00039	±2.5	PASS
				VH	-6.65	-0.00807	±2.5	PASS
		MCH	TN	VL	-8.33	-0.00995	±2.5	PASS
				VN	-5.68	-0.00679	±2.5	PASS
				VH	-5.55	-0.00663	±2.5	PASS
		HCH	TN	VL	-3.68	-0.00434	±2.5	PASS
				VN	-2.07	-0.00244	±2.5	PASS
				VH	-8.65	-0.01019	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-7.43	-0.00901	±2.5	PASS
				VN	-4.49	-0.00545	±2.5	PASS
				VH	-8.72	-0.01058	±2.5	PASS
		MCH	TN	VL	-10.23	-0.01222	±2.5	PASS
				VN	-9.78	-0.01168	±2.5	PASS
				VH	-7.78	-0.0093	±2.5	PASS
		HCH	TN	VL	-8.07	-0.00951	±2.5	PASS
				VN	-12.59	-0.01483	±2.5	PASS
				VH	-5.62	-0.00662	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-6.52	-0.00352	±2.5	PASS
				VN	-2.84	-0.00153	±2.5	PASS
				VH	-7.94	-0.00429	±2.5	PASS
		MCH	TN	VL	-4.17	-0.00275	±2.5	PASS
				VN	-11.17	-0.00594	±2.5	PASS
				VH	-10.98	-0.00584	±2.5	PASS
		HCH	TN	VL	-14.40	-0.00754	±2.5	PASS
				VN	1.81	0.00095	±2.5	PASS
				VH	-17.89	-0.00937	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-6.33	-0.00342	±2.5	PASS
				VN	-7.65	-0.00413	±2.5	PASS
				VH	-17.05	-0.00922	±2.5	PASS
		MCH	TN	VL	-9.94	-0.00529	±2.5	PASS
				VN	-5.36	-0.00285	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				VH	-20.05	-0.01066	±2.5	PASS
		HCH	TN	VL	-12.01	-0.00629	±2.5	PASS
				VN	-4.42	-0.00231	±2.5	PASS
				VH	-5.26	-0.0038	±2.5	PASS

6.1.2 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	-2.71	-0.00329	±2.5	PASS
				-20	-12.46	-0.01512	±2.5	PASS
				-10	-4.91	-0.00596	±2.5	PASS
				0	-5.13	-0.00744	±2.5	PASS
				10	-0.52	-0.00063	±2.5	PASS
				20	-6.39	-0.00775	±2.5	PASS
				30	-4.23	-0.00635	±2.5	PASS
				40	-6.01	-0.00729	±2.5	PASS
				50	-9.30	-0.01128	±2.5	PASS
		MCH	VN	-30	-3.87	-0.00462	±2.5	PASS
				-20	-2.58	-0.00308	±2.5	PASS
				-10	-4.71	-0.00563	±2.5	PASS
				0	-5.04	-0.00602	±2.5	PASS
				10	1.87	0.00223	±2.5	PASS
				20	-6.72	-0.00803	±2.5	PASS
				30	-4.10	-0.00609	±2.5	PASS
				40	-5.36	-0.0064	±2.5	PASS
				50	-9.30	-0.01111	±2.5	PASS
		HCH	VN	-30	-8.72	-0.01027	±2.5	PASS
				-20	-8.14	-0.00959	±2.5	PASS
				-10	-4.78	-0.00563	±2.5	PASS
				0	-7.94	-0.00935	±2.5	PASS
				10	-9.56	-0.01126	±2.5	PASS
				20	-5.81	-0.00684	±2.5	PASS
				30	-1.61	-0.0019	±2.5	PASS
				40	-2.97	-0.0035	±2.5	PASS
				50	-2.10	-0.00365	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-6.55	-0.00795	±2.5	PASS
				-20	-10.65	-0.01292	±2.5	PASS
				-10	-7.72	-0.00937	±2.5	PASS
				0	-9.07	-0.011	±2.5	PASS
				10	-1.29	-0.00157	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				20	-9.04	-0.01097	±2.5	PASS
				30	-3.45	-0.00419	±2.5	PASS
				40	-11.59	-0.01406	±2.5	PASS
				50	-5.78	-0.00701	±2.5	PASS
		MCH	VN	-30	-5.13	-0.00732	±2.5	PASS
				-20	-10.17	-0.01215	±2.5	PASS
				-10	0.06	0.00007	±2.5	PASS
				0	-2.97	-0.00355	±2.5	PASS
				10	-6.91	-0.00826	±2.5	PASS
				20	-4.55	-0.00544	±2.5	PASS
				30	2.36	0.00282	±2.5	PASS
				40	-4.94	-0.0059	±2.5	PASS
				50	-11.14	-0.01331	±2.5	PASS
		HCH	VN	-30	-7.01	-0.00826	±2.5	PASS
				-20	-4.97	-0.00586	±2.5	PASS
				-10	-8.52	-0.01004	±2.5	PASS
				0	-5.65	-0.00666	±2.5	PASS
				10	-5.55	-0.00654	±2.5	PASS
				20	-6.65	-0.00783	±2.5	PASS
				30	-7.33	-0.00864	±2.5	PASS
				40	-8.68	-0.01023	±2.5	PASS
				50	-1.07	-0.00126	±2.5	PASS
GSM1900	GSM/TM1	LCH	VN	-30	-11.36	-0.00614	±2.5	PASS
				-20	-7.30	-0.00395	±2.5	PASS
				-10	-8.33	-0.0045	±2.5	PASS
				0	-5.04	-0.00272	±2.5	PASS
				10	-14.92	-0.00806	±2.5	PASS
				20	-16.98	-0.00918	±2.5	PASS
				30	-17.05	-0.00922	±2.5	PASS
				40	-10.65	-0.00576	±2.5	PASS
				50	-10.27	-0.00555	±2.5	PASS
		MCH	VN	-30	-5.75	-0.00306	±2.5	PASS
				-20	-8.33	-0.00443	±2.5	PASS
				-10	-14.17	-0.00807	±2.5	PASS
				0	-12.59	-0.0067	±2.5	PASS
				10	-9.94	-0.00529	±2.5	PASS
				20	-13.50	-0.00718	±2.5	PASS
				30	-14.79	-0.00787	±2.5	PASS
				40	-6.17	-0.00381	±2.5	PASS
				50	-6.65	-0.00354	±2.5	PASS
		HCH	VN	-30	-9.88	-0.00517	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				-20	-16.34	-0.00856	±2.5	PASS
				-10	-9.56	-0.00501	±2.5	PASS
				0	-14.24	-0.00798	±2.5	PASS
				10	-9.23	-0.00483	±2.5	PASS
				20	-10.91	-0.00571	±2.5	PASS
				30	-12.11	-0.00686	±2.5	PASS
				40	-14.72	-0.00771	±2.5	PASS
				50	-7.68	-0.00402	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-10.98	-0.00593	±2.5	PASS
				-20	-6.14	-0.00386	±2.5	PASS
				-10	-6.75	-0.00365	±2.5	PASS
				0	-3.00	-0.00162	±2.5	PASS
				10	-13.59	-0.00735	±2.5	PASS
				20	-15.72	-0.0085	±2.5	PASS
				30	-13.46	-0.00727	±2.5	PASS
				40	-6.33	-0.00342	±2.5	PASS
				50	-6.33	-0.00342	±2.5	PASS
		MCH	VN	-30	-2.42	-0.00129	±2.5	PASS
				-20	-7.43	-0.00395	±2.5	PASS
				-10	-6.42	-0.00341	±2.5	PASS
				0	-7.81	-0.00415	±2.5	PASS
				10	-12.20	-0.00649	±2.5	PASS
				20	-17.08	-0.00909	±2.5	PASS
				30	-0.84	-0.00045	±2.5	PASS
				40	-14.37	-0.00764	±2.5	PASS
				50	-8.33	-0.00443	±2.5	PASS
		HCH	VN	-30	-9.07	-0.00475	±2.5	PASS
				-20	-14.56	-0.00762	±2.5	PASS
				-10	-3.91	-0.00205	±2.5	PASS
				0	-10.43	-0.00546	±2.5	PASS
				10	-2.26	-0.00171	±2.5	PASS
				20	-20.24	-0.0106	±2.5	PASS
				30	-6.33	-0.00331	±2.5	PASS
				40	-10.43	-0.00546	±2.5	PASS
				50	-22.86	-0.01197	±2.5	PASS

6.2 For UMTS

6.2.1 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	1.37	0.00166	±2.5	PASS
				VN	3.07	0.00371	±2.5	PASS
				VH	-0.41	-0.0005	±2.5	PASS
		MCH	TN	VL	-0.17	-0.0002	±2.5	PASS
				VN	-1.83	-0.00219	±2.5	PASS
				VH	0.24	0.00029	±2.5	PASS
		HCH	TN	VL	-2.90	-0.00343	±2.5	PASS
				VN	-2.61	-0.00308	±2.5	PASS
				VH	-1.79	-0.00211	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-1.10	-0.00059	±2.5	PASS
				VN	1.17	0.00063	±2.5	PASS
				VH	-1.33	-0.00072	±2.5	PASS
		MCH	TN	VL	-8.90	-0.00473	±2.5	PASS
				VN	-6.97	-0.00371	±2.5	PASS
				VH	-5.91	-0.00314	±2.5	PASS
		HCH	TN	VL	-12.86	-0.00674	±2.5	PASS
				VN	-14.12	-0.00793	±2.5	PASS
				VH	-11.03	-0.00578	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	12.56	0.00733	±2.5	PASS
				VN	11.06	0.00646	±2.5	PASS
				VH	14.12	0.00883	±2.5	PASS
		MCH	TN	VL	-2.7	-0.00156	±2.5	PASS
				VN	-3.36	-0.00194	±2.5	PASS
				VH	-3.8	-0.00219	±2.5	PASS
		HCH	TN	VL	-18.62	-0.01062	±2.5	PASS
				VN	-18.95	-0.01081	±2.5	PASS
				VH	-19.91	-0.01136	±2.5	PASS

6.2.2 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	0.44	0.00053	±2.5	PASS
				-20	-1.63	-0.00197	±2.5	PASS
				-10	2.81	0.0034	±2.5	PASS
				0	1.83	0.00221	±2.5	PASS
				10	4.67	0.00565	±2.5	PASS
				20	2.46	0.00298	±2.5	PASS
				30	2.01	0.00243	±2.5	PASS
				40	1.69	0.00205	±2.5	PASS
				50	-0.60	-0.00073	±2.5	PASS
		MCH	VN	-30	-2.35	-0.00281	±2.5	PASS
				-20	1.48	0.00177	±2.5	PASS
				-10	-1.22	-0.00146	±2.5	PASS
				0	3.34	0.00399	±2.5	PASS
				10	-0.64	-0.00077	±2.5	PASS
				20	-1.37	-0.00164	±2.5	PASS
				30	0.56	0.00067	±2.5	PASS
				40	-3.86	-0.00462	±2.5	PASS
				50	0.47	0.00056	±2.5	PASS
		HCH	VN	-30	0.64	0.00076	±2.5	PASS
				-20	-3.21	-0.00497	±2.5	PASS
				-10	-3.30	-0.0039	±2.5	PASS
				0	-4.64	-0.00548	±2.5	PASS
				10	-1.34	-0.00158	±2.5	PASS
				20	-2.59	-0.00306	±2.5	PASS
				30	-5.08	-0.006	±2.5	PASS
				40	-1.34	-0.00158	±2.5	PASS
				50	-3.97	-0.00469	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	-1.71	-0.00092	±2.5	PASS
				-20	-2.25	-0.00175	±2.5	PASS
				-10	1.13	0.00061	±2.5	PASS
				0	-1.77	-0.00096	±2.5	PASS
				10	1.92	0.00104	±2.5	PASS
				20	0.06	0.00003	±2.5	PASS
				30	0.53	0.00029	±2.5	PASS
				40	0.95	0.00051	±2.5	PASS
				50	-3.49	-0.00188	±2.5	PASS
		MCH	VN	-30	-5.86	-0.00312	±2.5	PASS
				-20	-6.48	-0.00345	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				-10	-8.62	-0.00459	±2.5	PASS
				0	-8.48	-0.00451	±2.5	PASS
				10	-8.64	-0.0046	±2.5	PASS
				20	-6.61	-0.00352	±2.5	PASS
				30	-4.22	-0.00278	±2.5	PASS
				40	-6.41	-0.00341	±2.5	PASS
				50	-7.46	-0.00397	±2.5	PASS
		HCH	VN	-30	-12.28	-0.00696	±2.5	PASS
				-20	-10.85	-0.00569	±2.5	PASS
				-10	-13.89	-0.00728	±2.5	PASS
				0	-11.61	-0.00609	±2.5	PASS
				10	-9.14	-0.00479	±2.5	PASS
				20	-9.72	-0.0051	±2.5	PASS
				30	-9.83	-0.00515	±2.5	PASS
				40	-12.76	-0.00669	±2.5	PASS
				50	-11.00	-0.00577	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	12.59	0.00735	±2.5	PASS
				-20	13.46	0.00786	±2.5	PASS
				-10	12.83	0.00749	±2.5	PASS
				0	9.84	0.00575	±2.5	PASS
				10	11.54	0.00674	±2.5	PASS
				20	11.51	0.00672	±2.5	PASS
				30	14.23	0.00889	±2.5	PASS
				40	14.01	0.00818	±2.5	PASS
				50	9.86	0.00576	±2.5	PASS
		MCH	VN	-30	-1.11	-0.00064	±2.5	PASS
				-20	-4.71	-0.00272	±2.5	PASS
				-10	-5.95	-0.00343	±2.5	PASS
				0	-4.62	-0.00267	±2.5	PASS
				10	-2.41	-0.00139	±2.5	PASS
				20	-2.62	-0.00151	±2.5	PASS
				30	-4.79	-0.00276	±2.5	PASS
				40	-3.12	-0.00238	±2.5	PASS
				50	-5.51	-0.00318	±2.5	PASS
		HCH	VN	-30	-17.4	-0.00993	±2.5	PASS
				-20	-16.63	-0.00949	±2.5	PASS
				-10	-21.22	-0.01211	±2.5	PASS
				0	-17.91	-0.01022	±2.5	PASS
				10	-18.48	-0.01054	±2.5	PASS
				20	-18.52	-0.01057	±2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				30	-17.88	-0.0102	±2.5	PASS
				40	-20.19	-0.01152	±2.5	PASS
				50	-19.71	-0.01125	±2.5	PASS

END