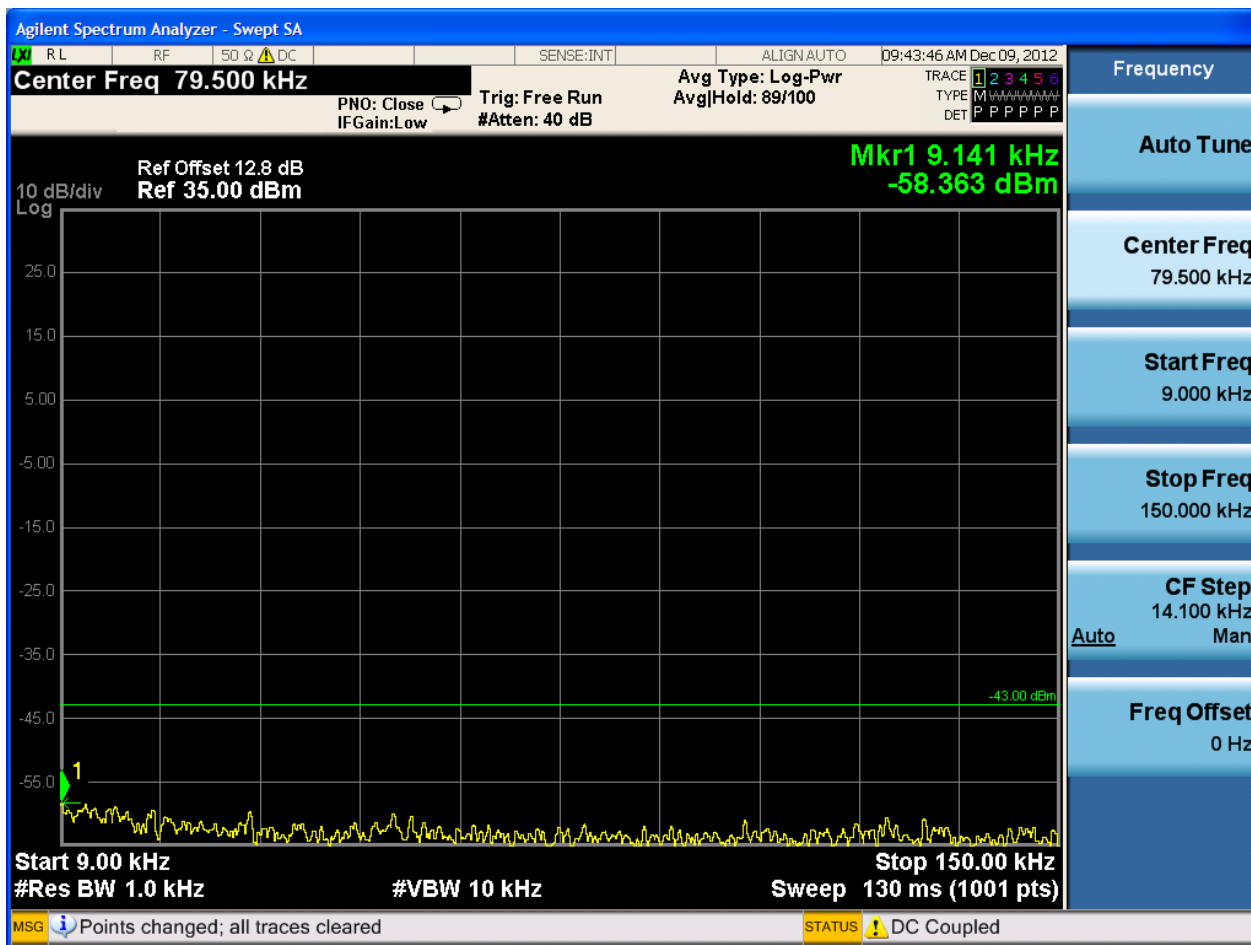
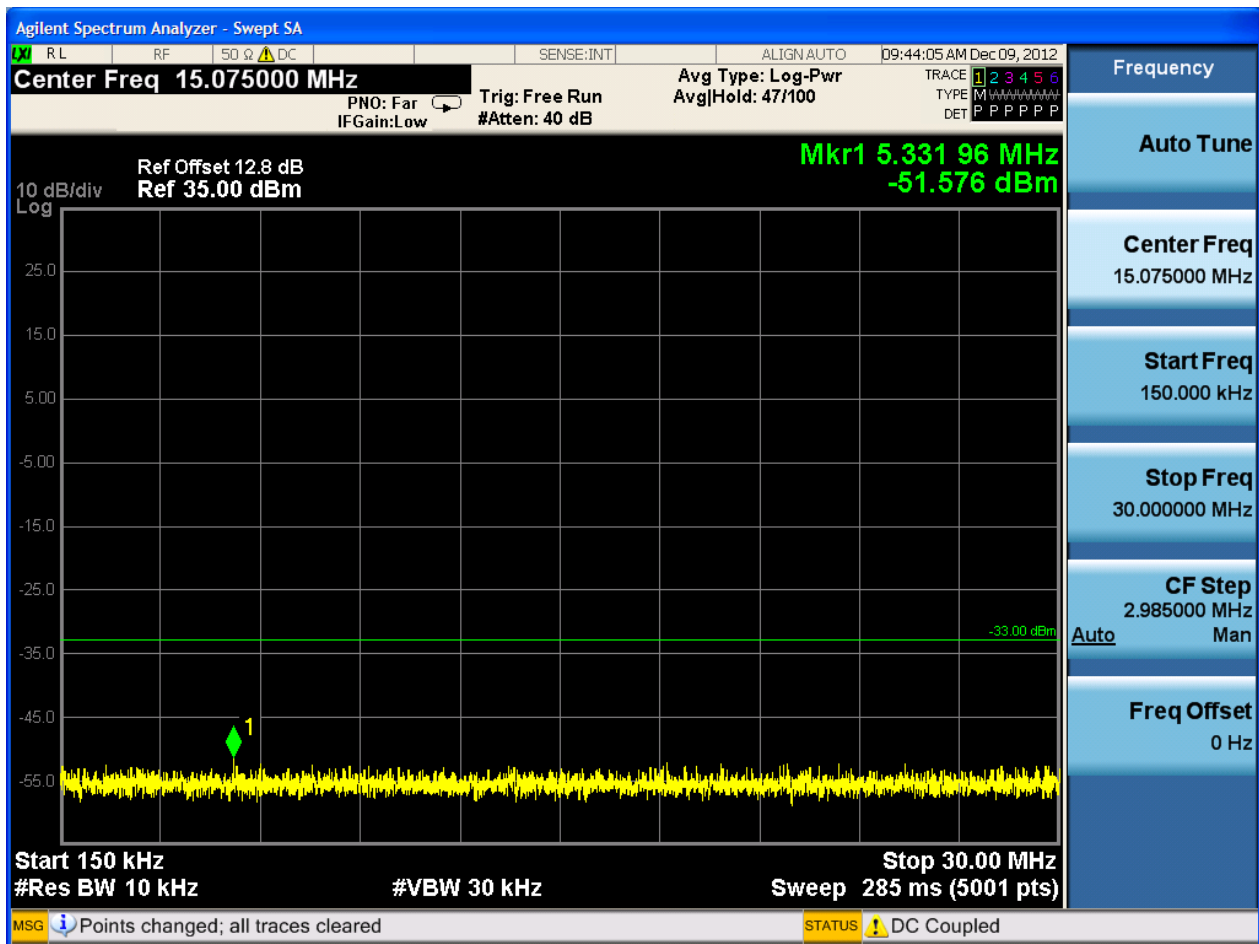
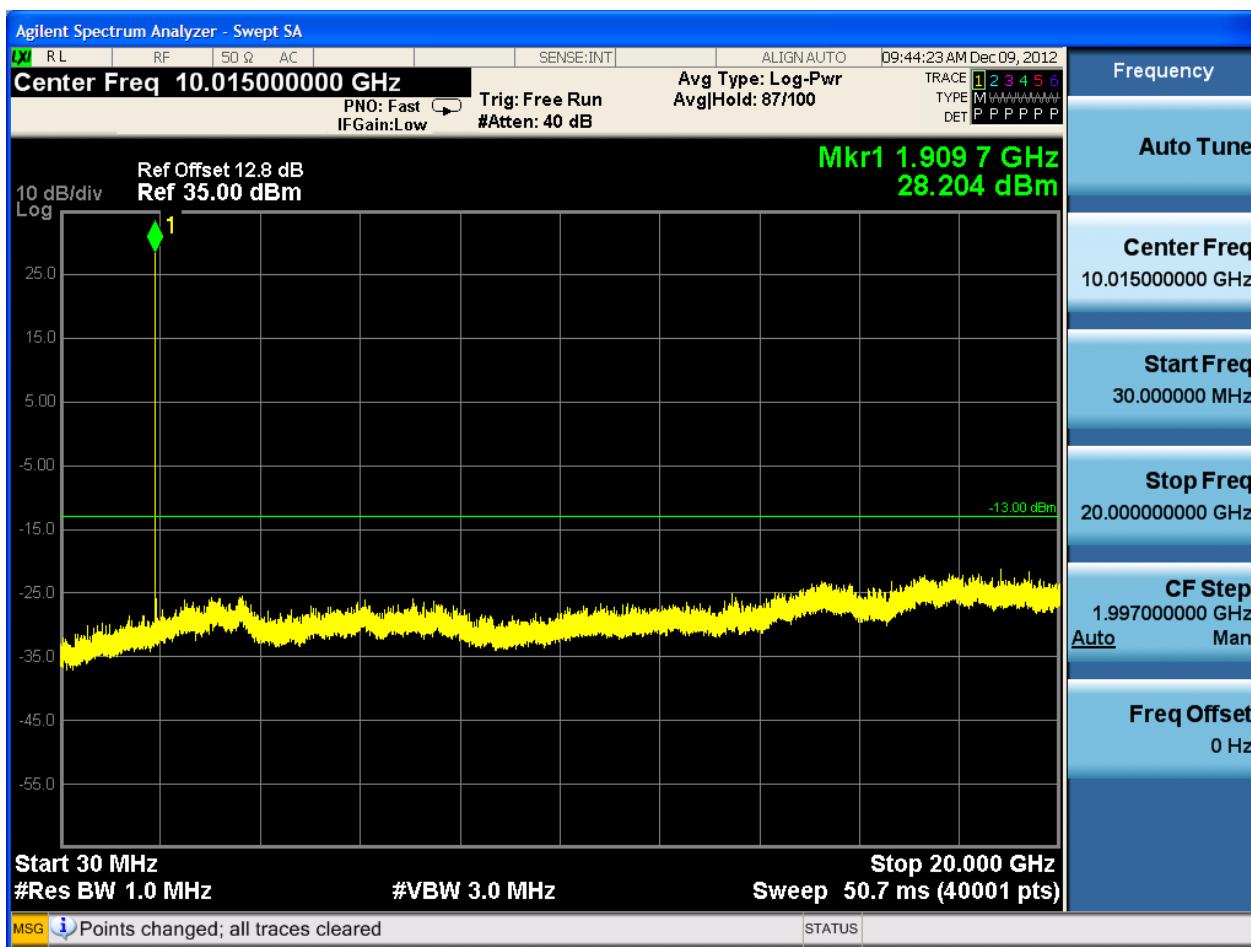




4.1.2.2.2 Test Channel = MCH

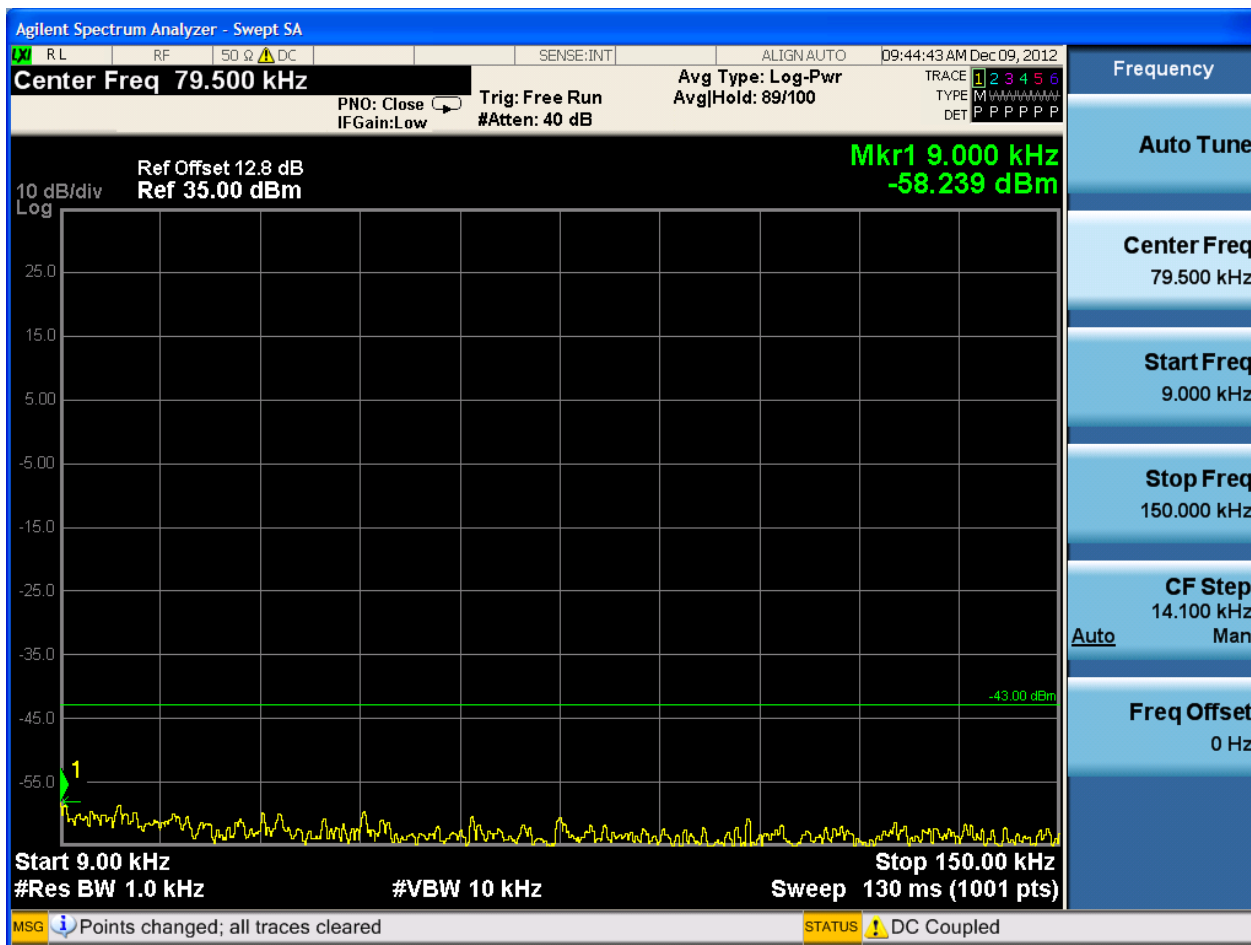


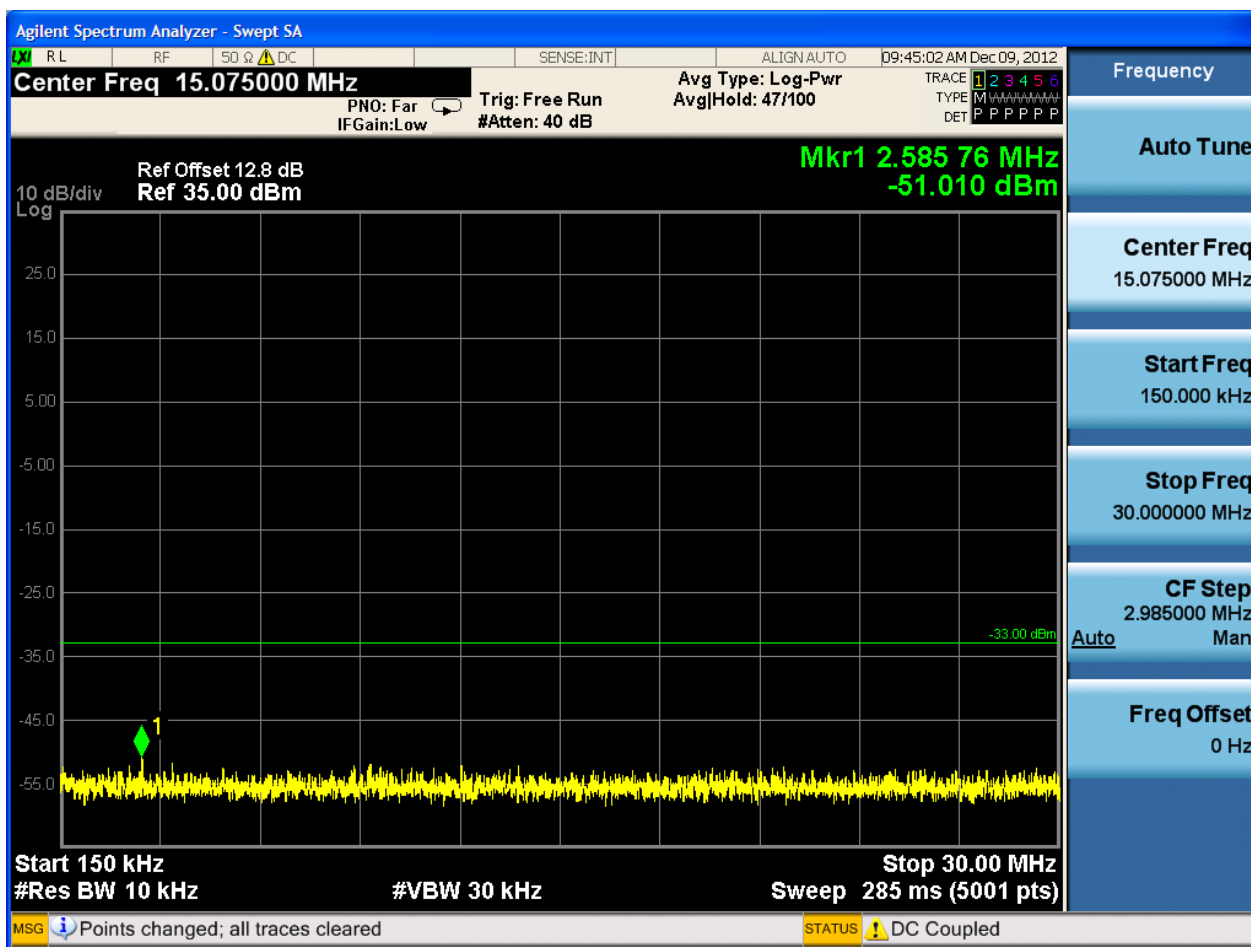


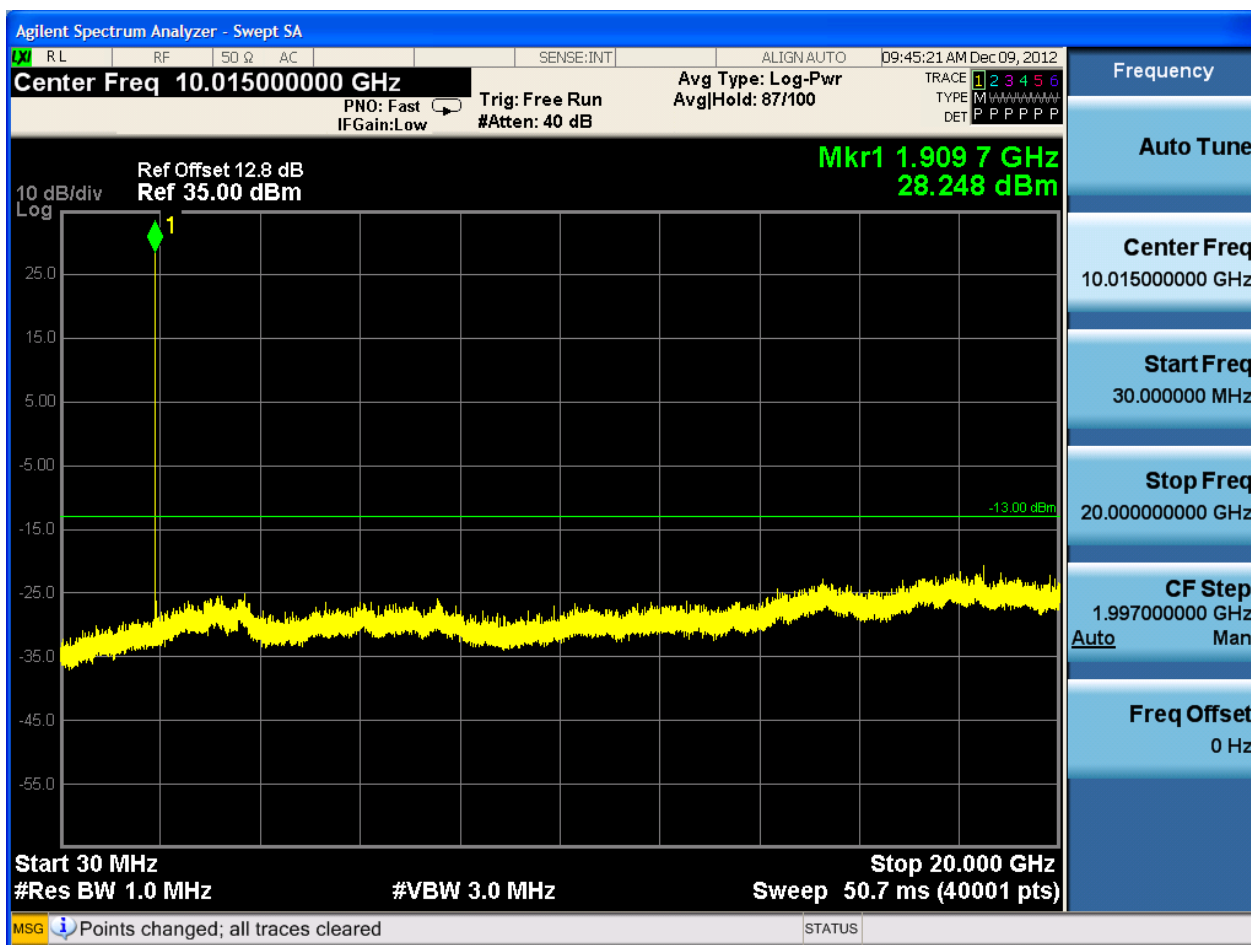




4.1.2.2.3 Test Channel = HCH







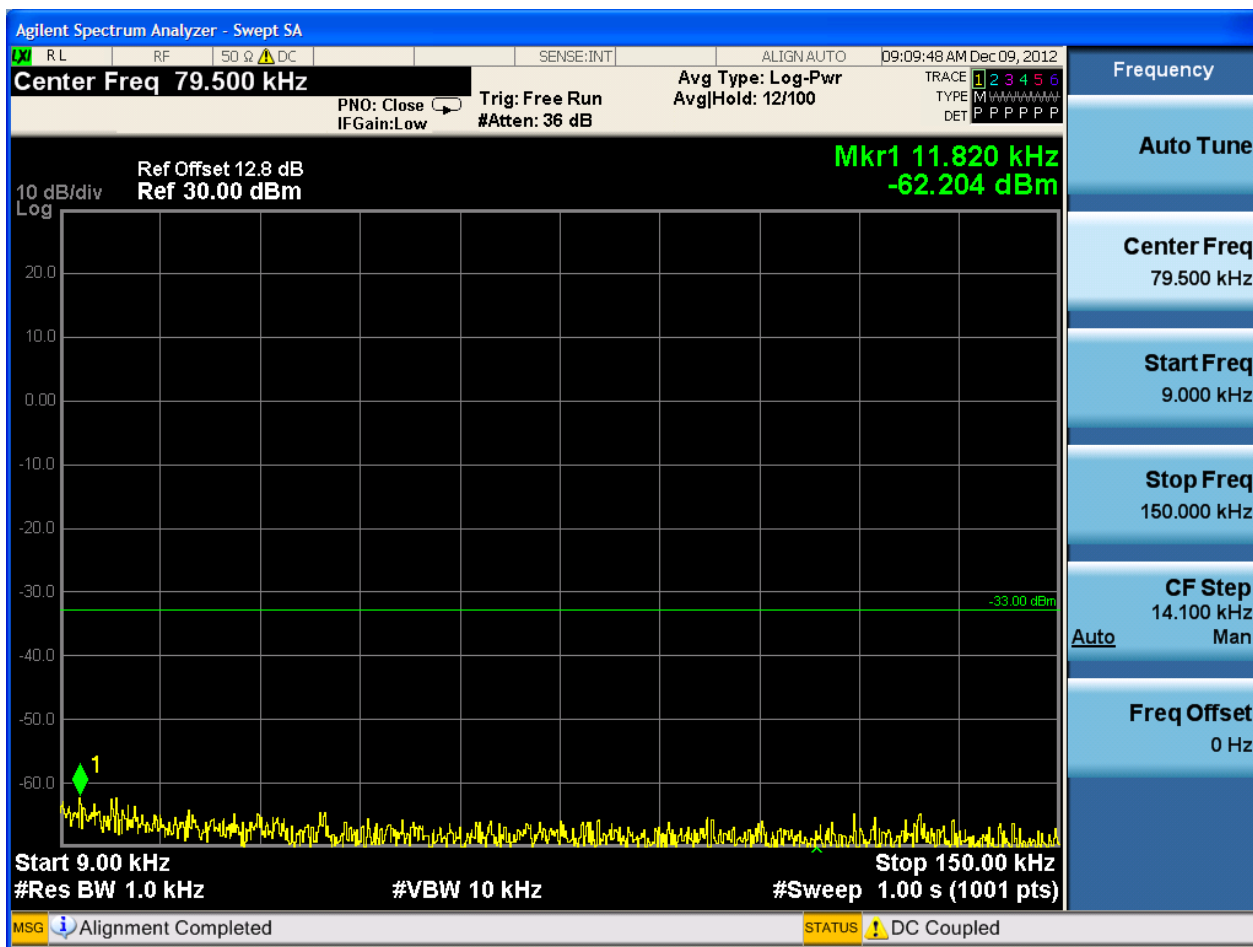


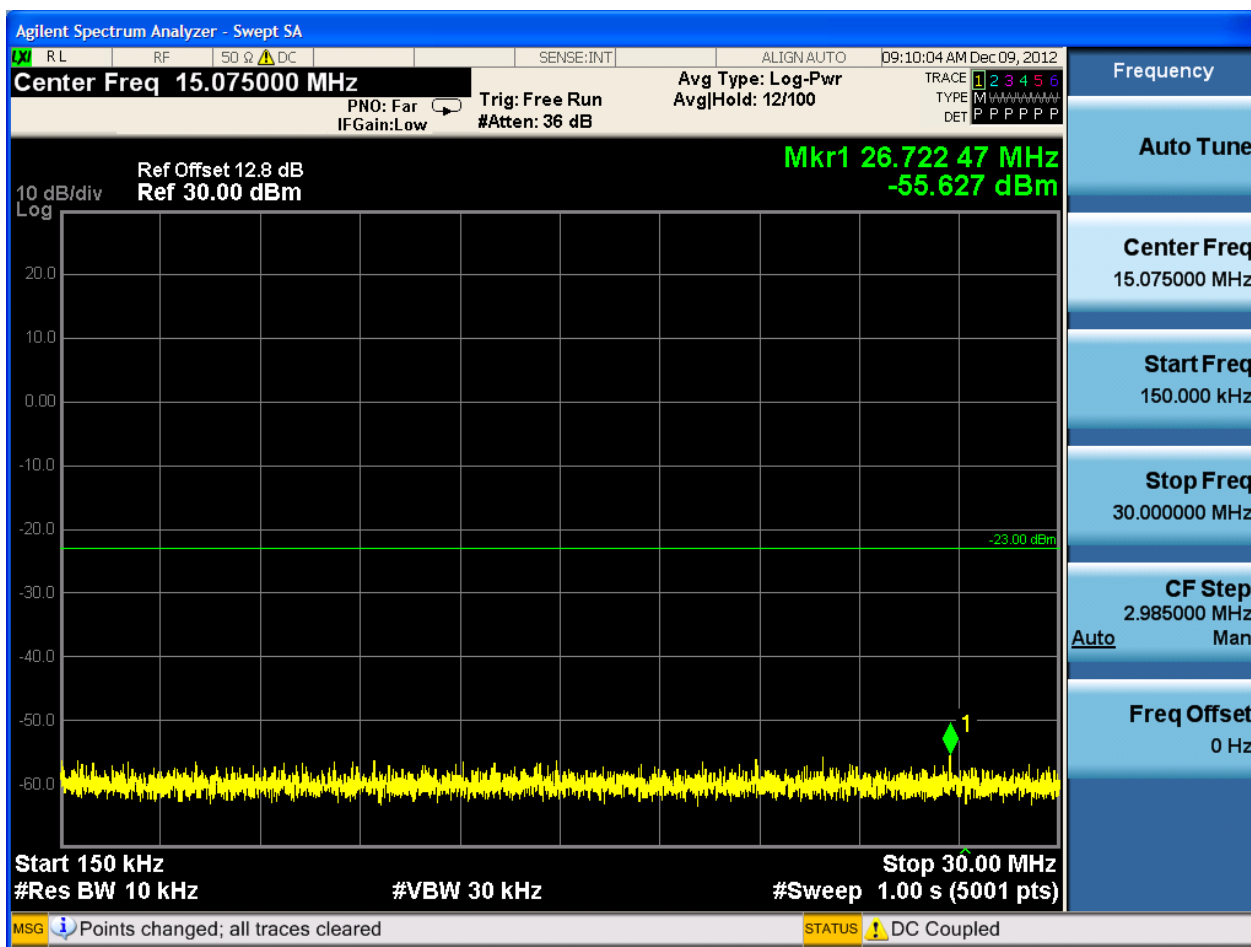
4.2 For UMTS

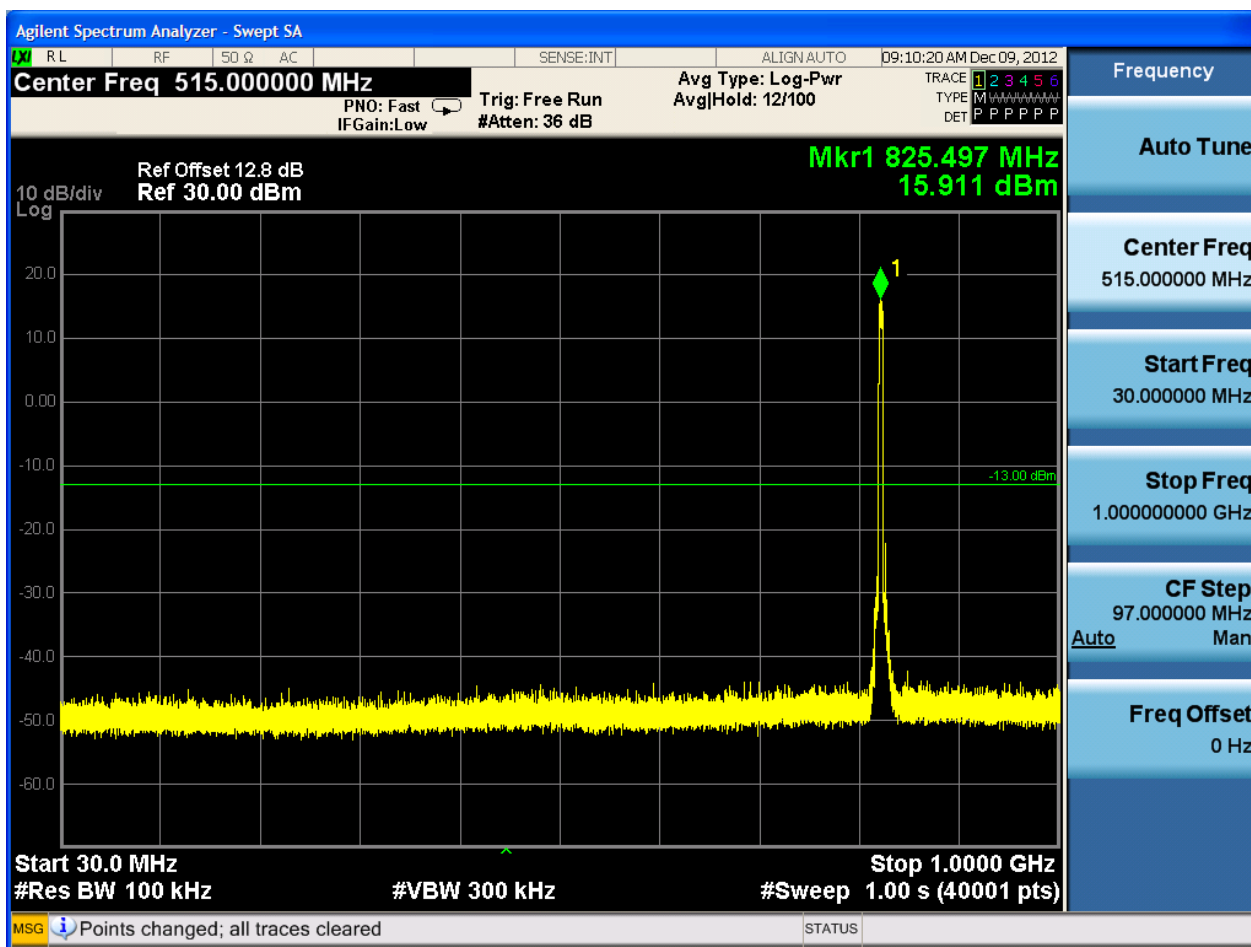
4.2.1 Test Band = WCDMA850

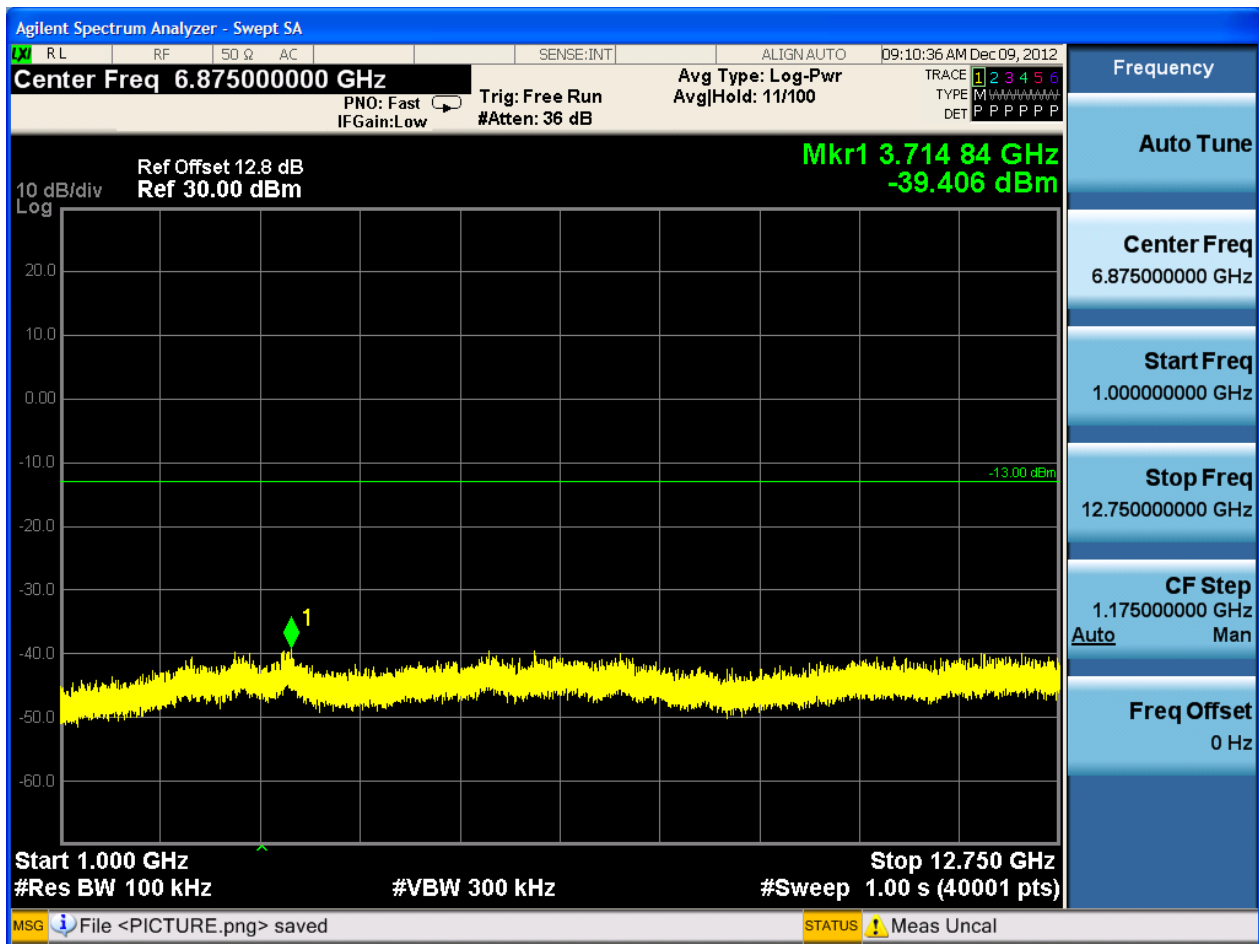
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



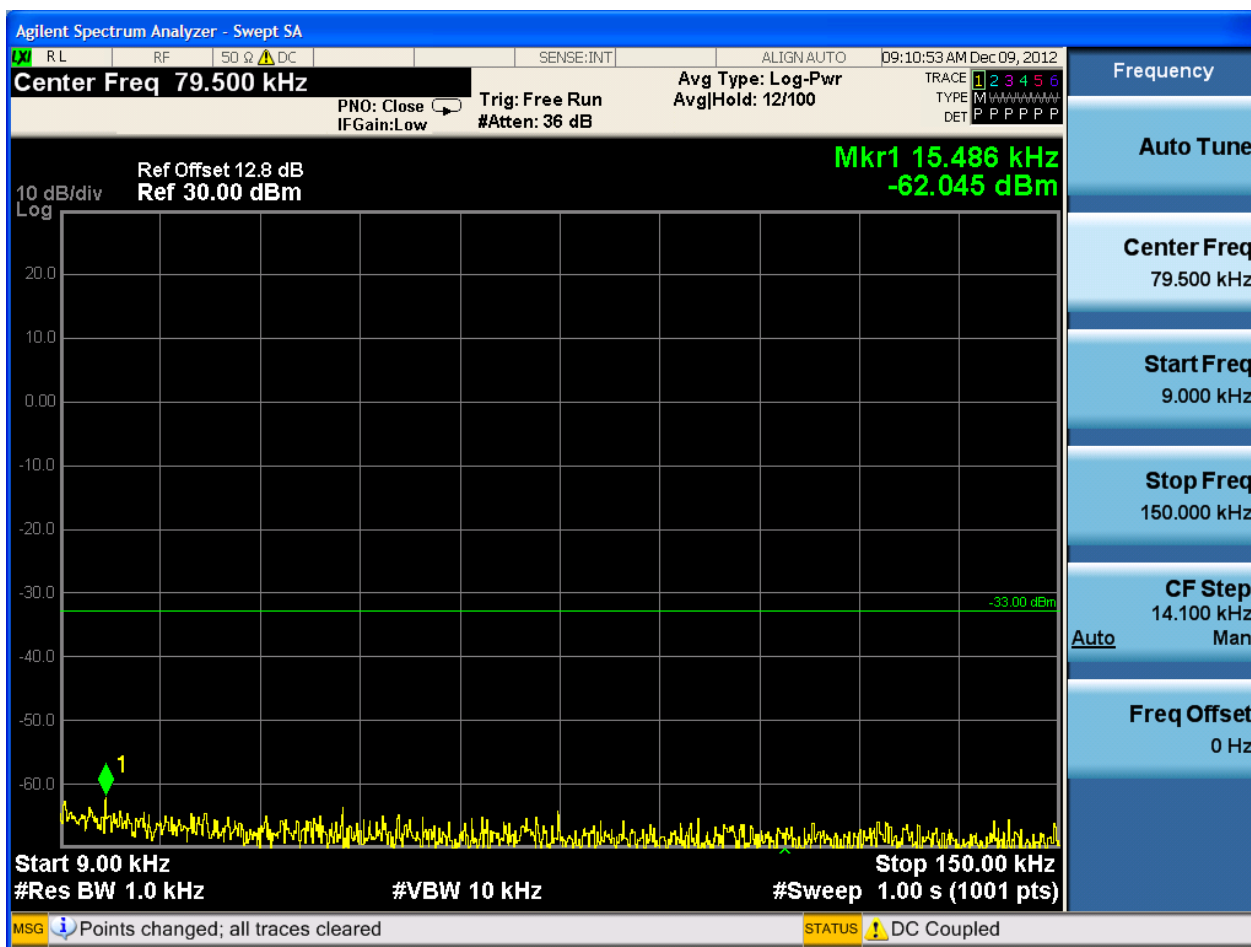


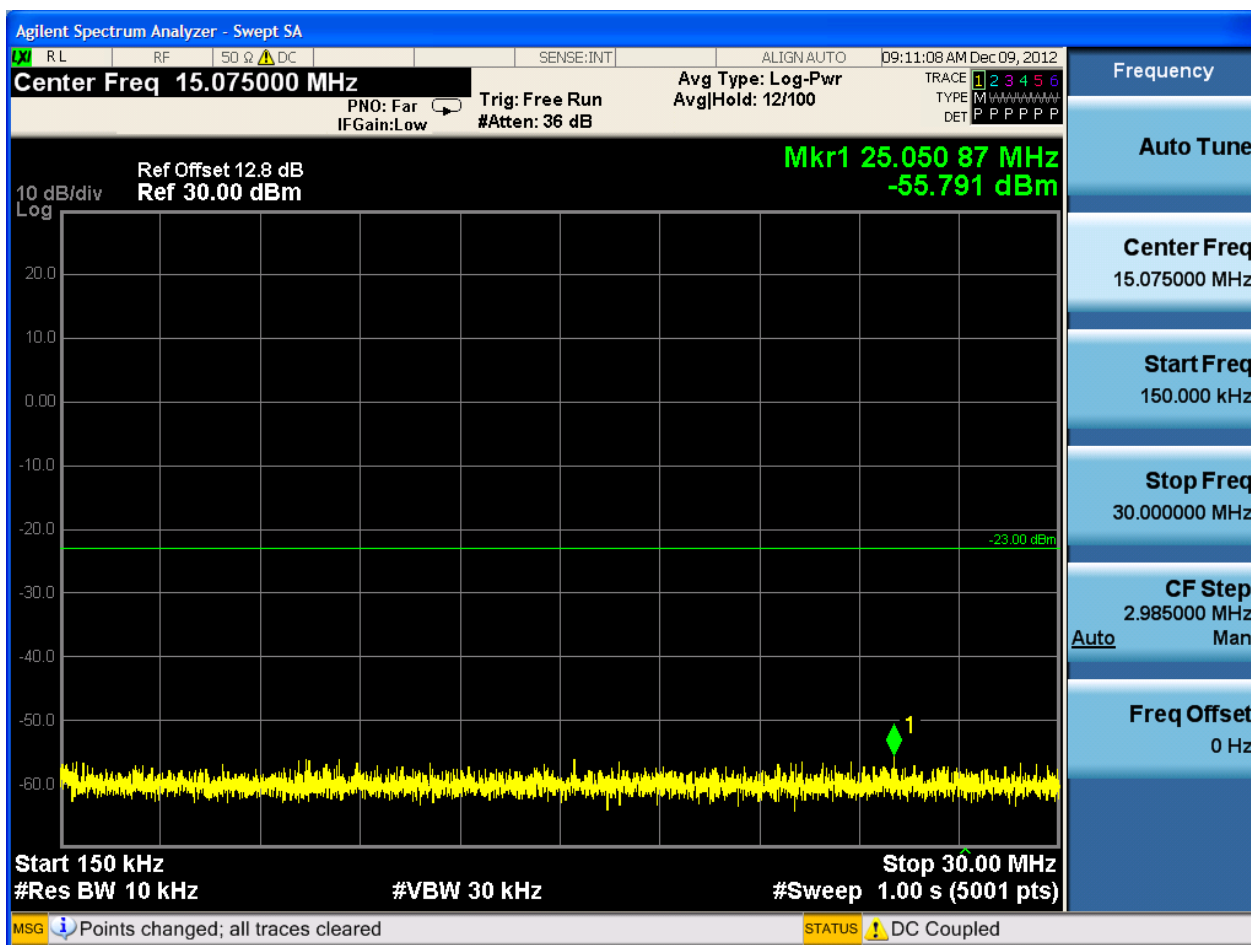


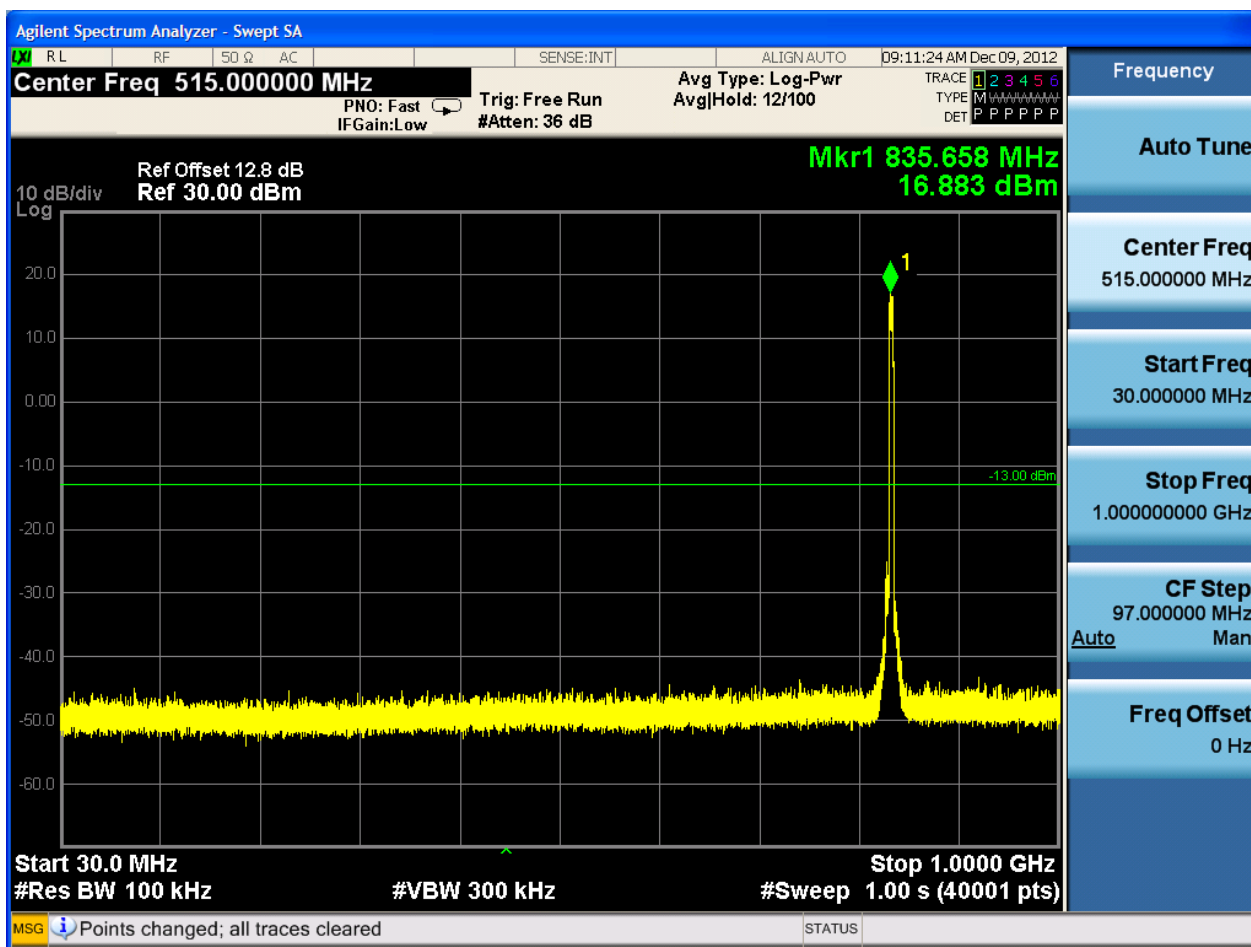


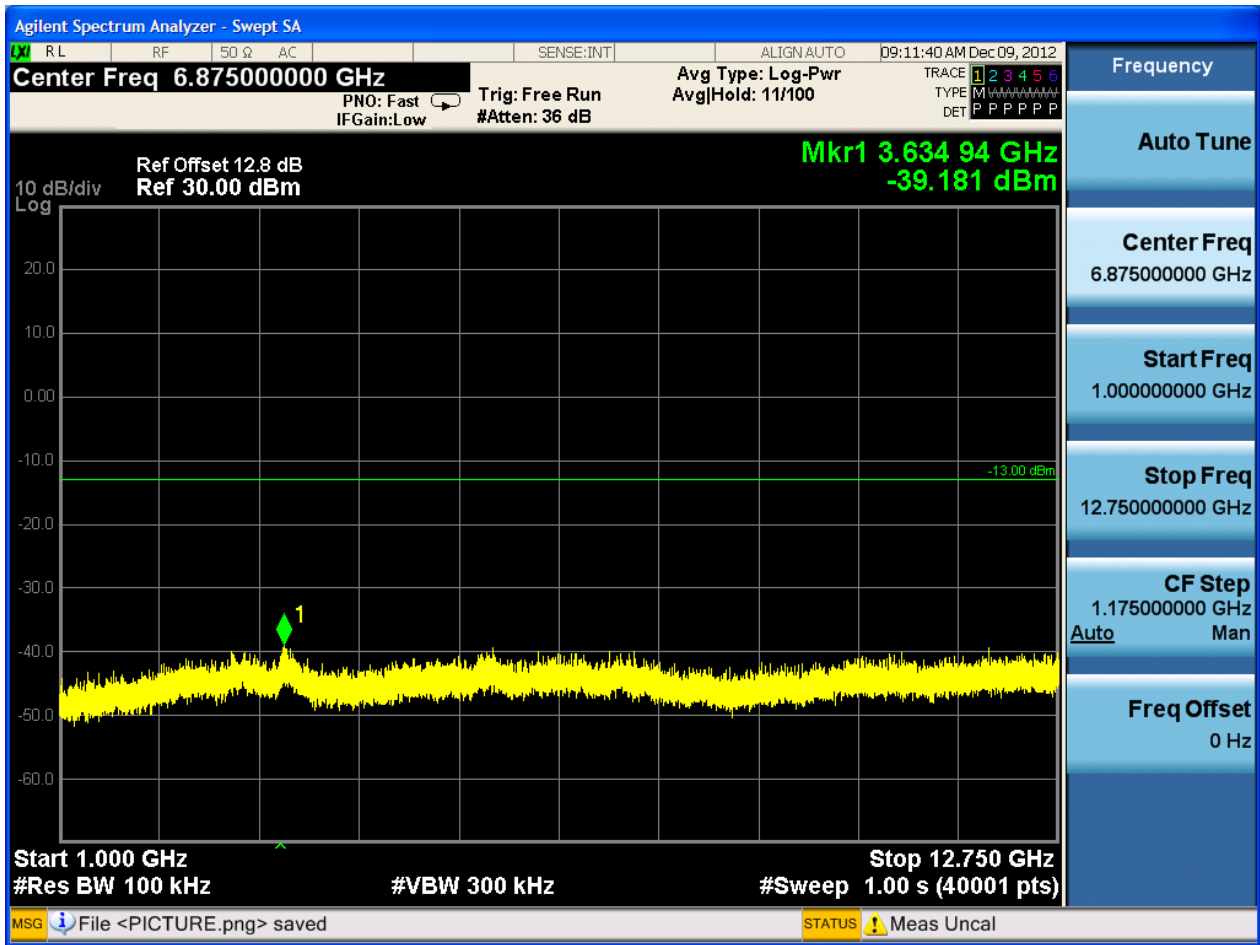


4.2.1.1.2 Test Channel = MCH



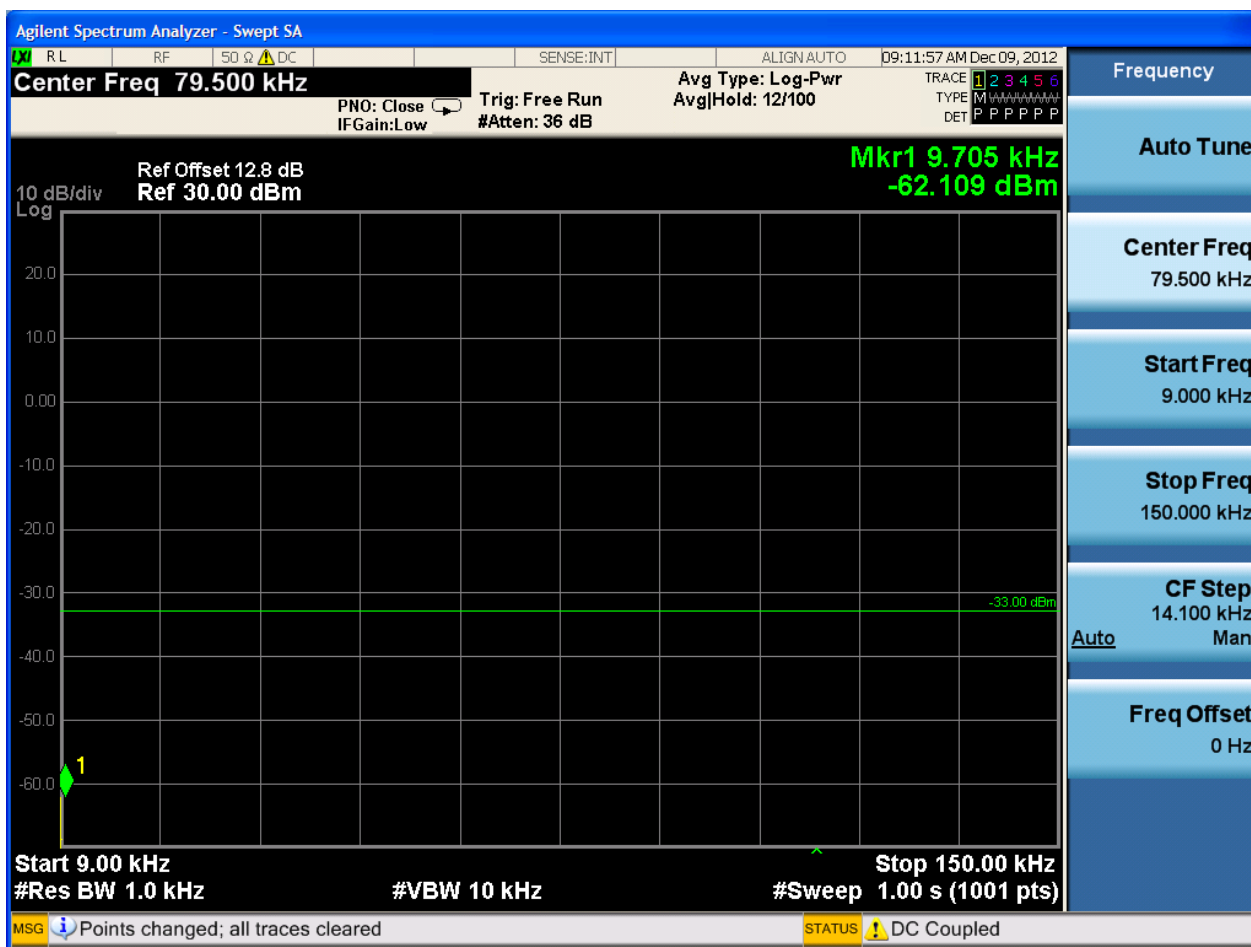


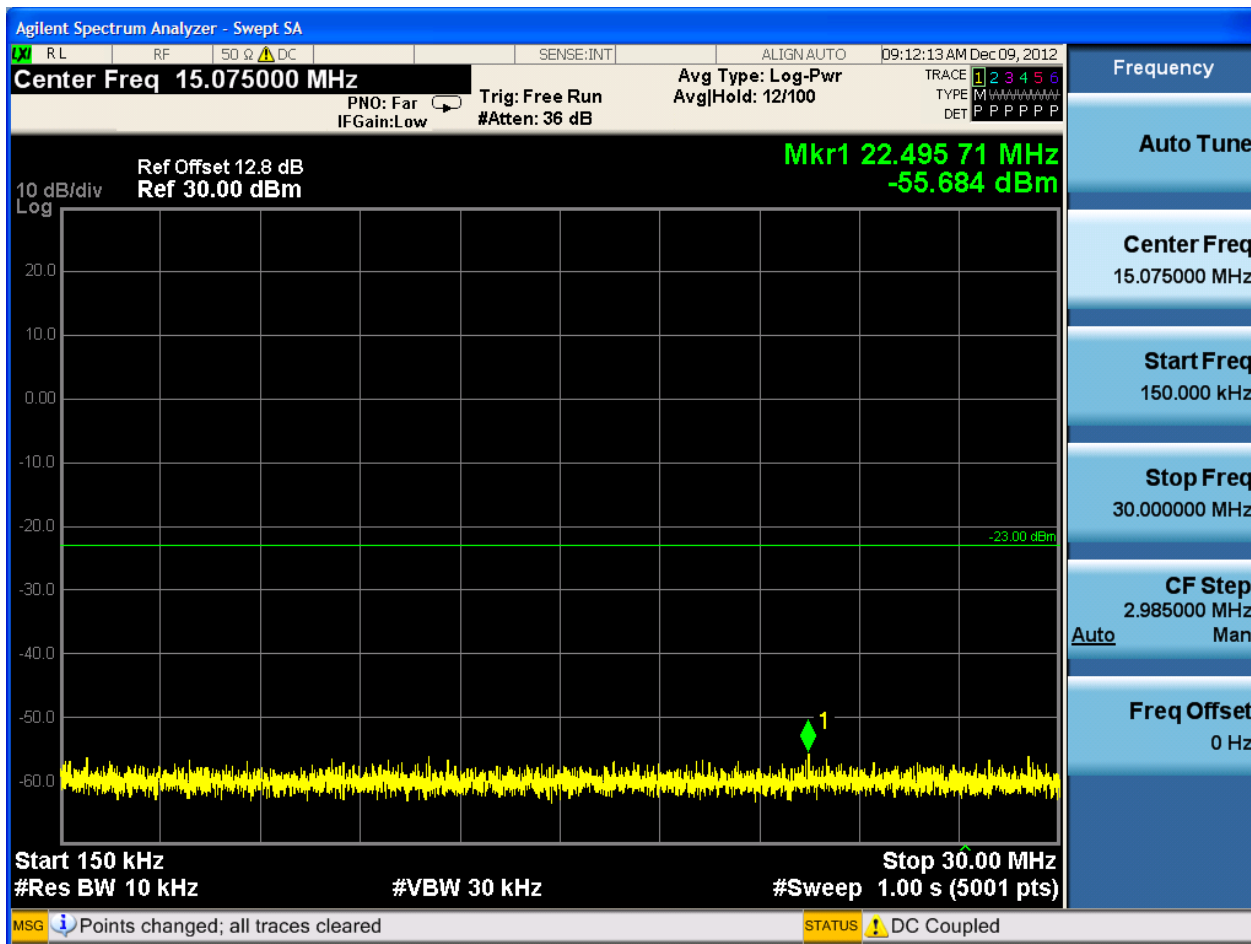


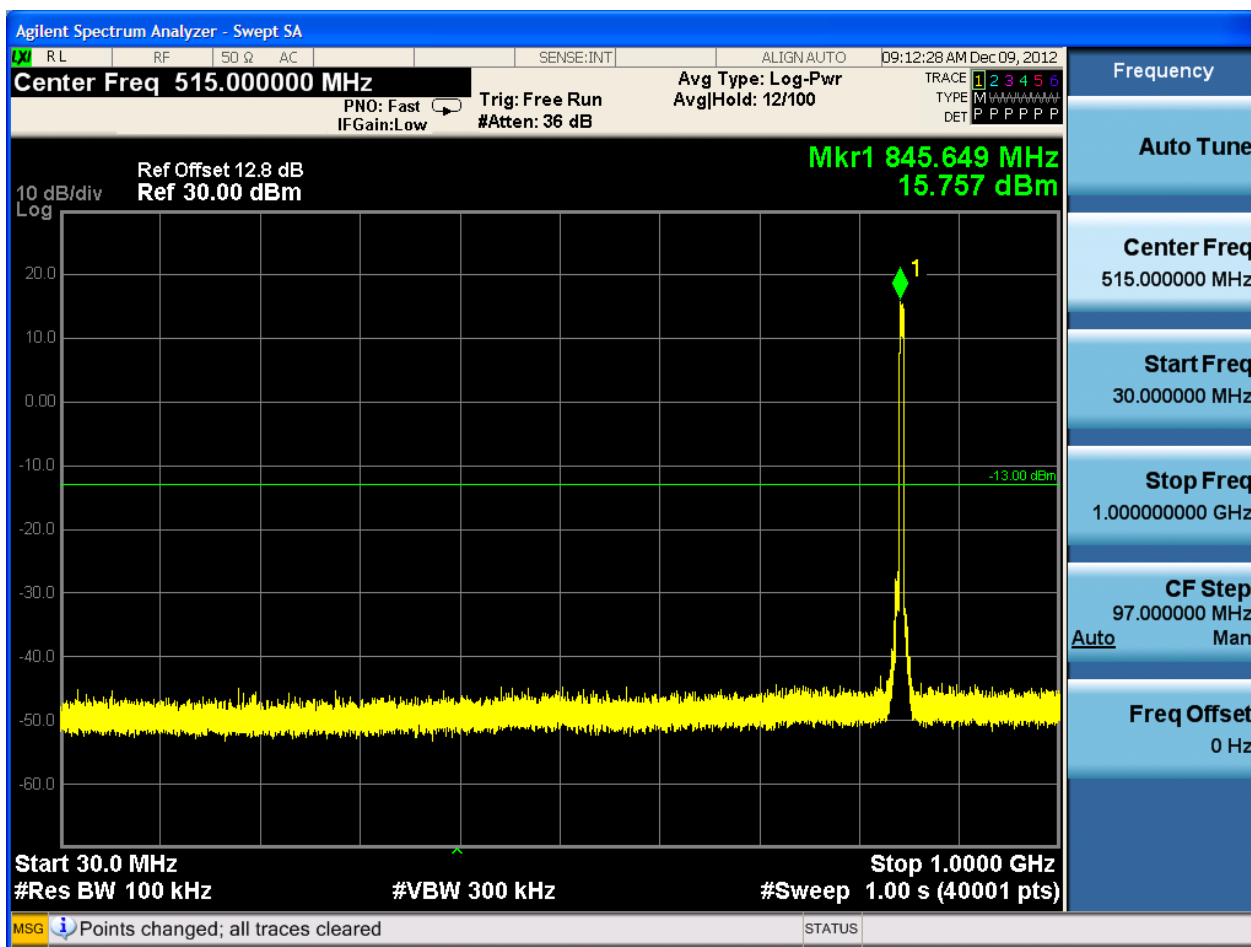


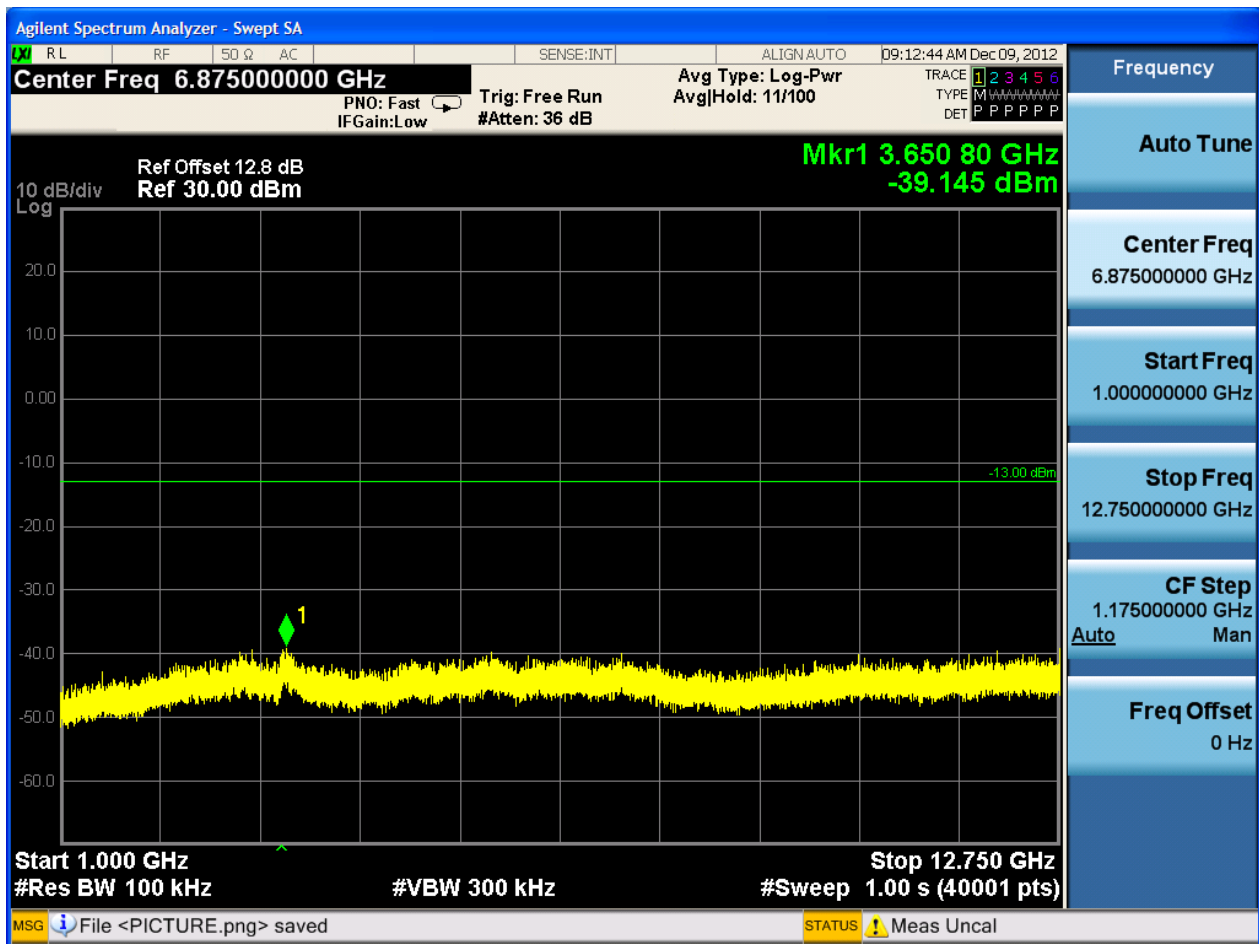


4.2.1.1.3 Test Channel = HCH







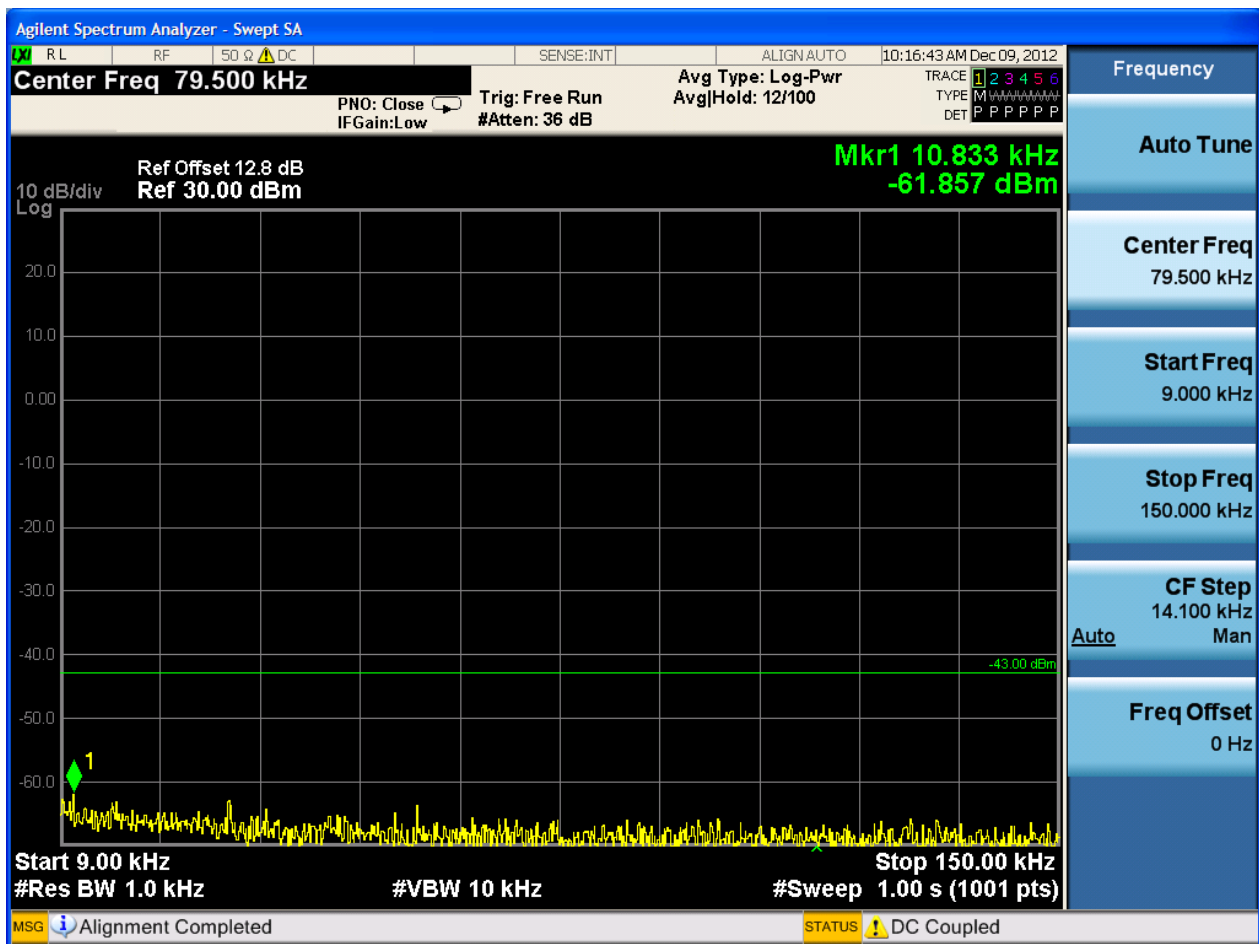


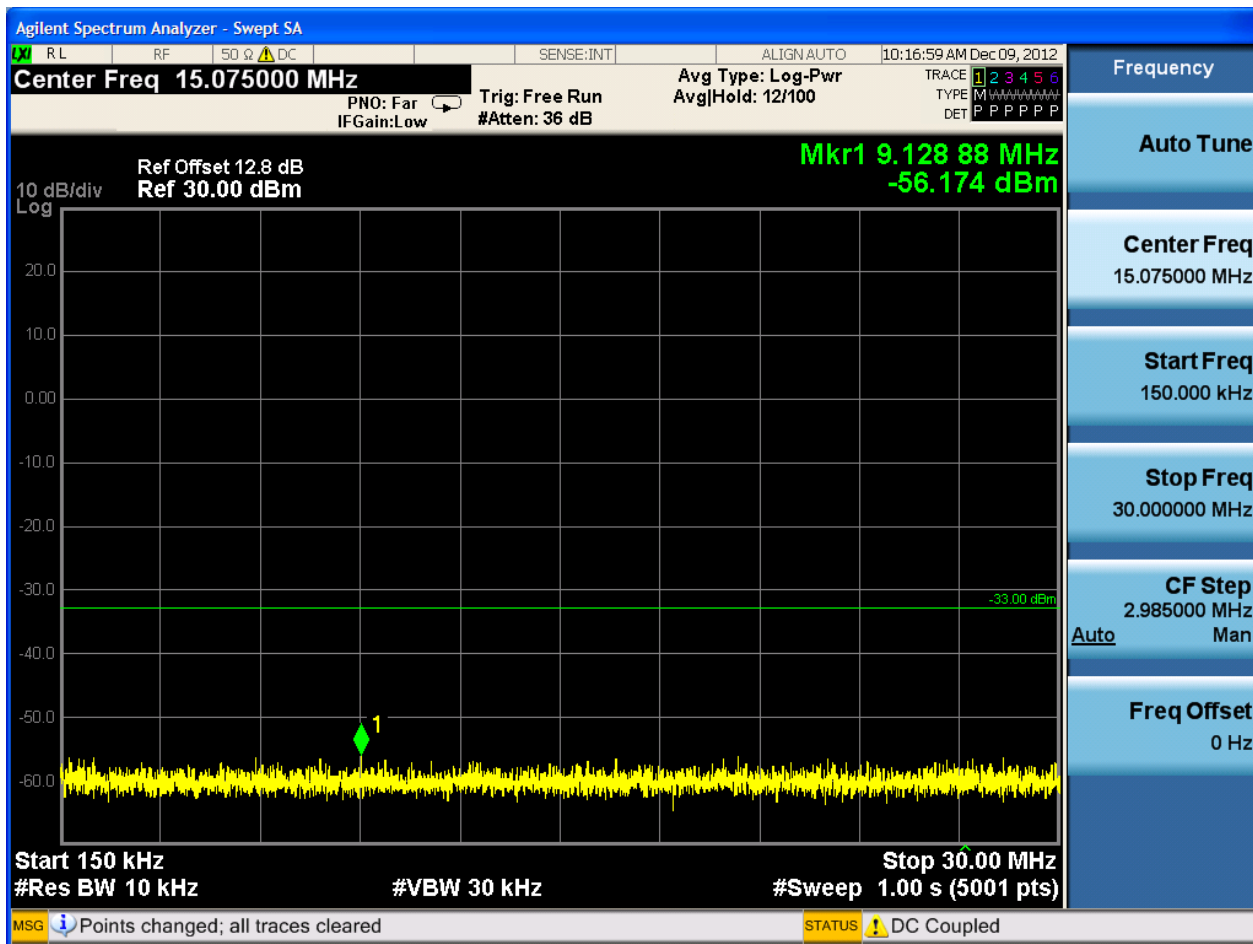


4.2.2 Test Band = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



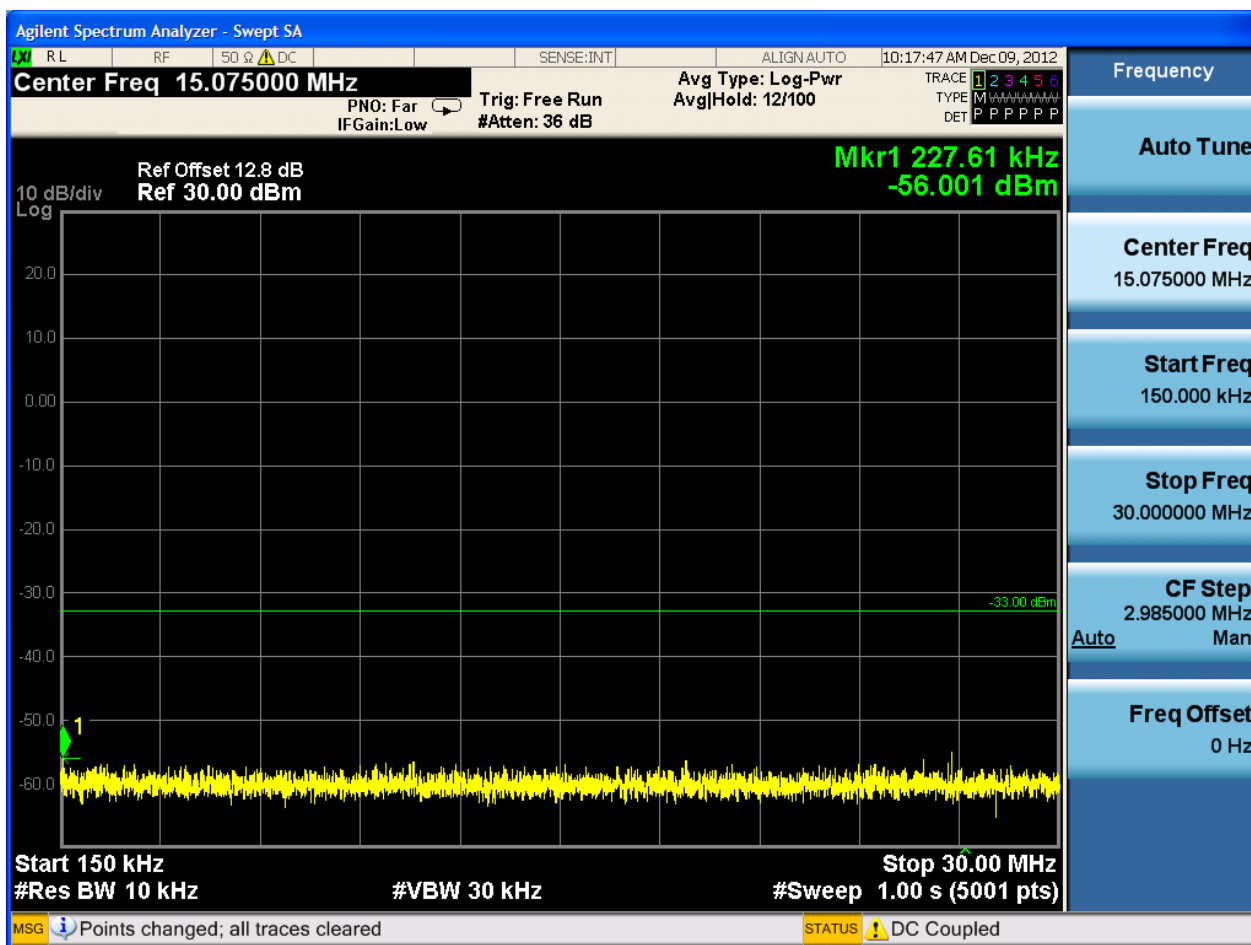






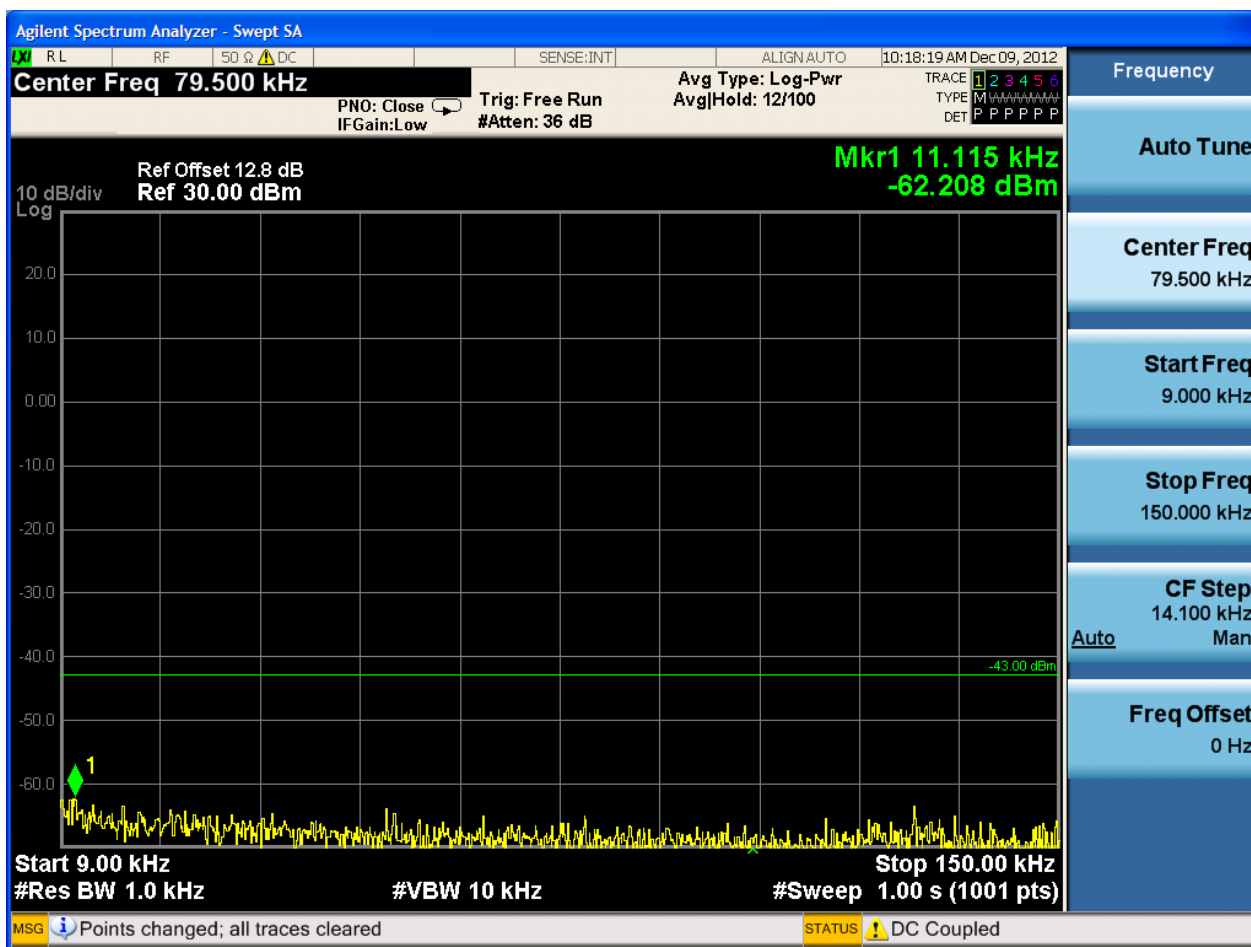
4.2.2.1.2 Test Channel = MCH

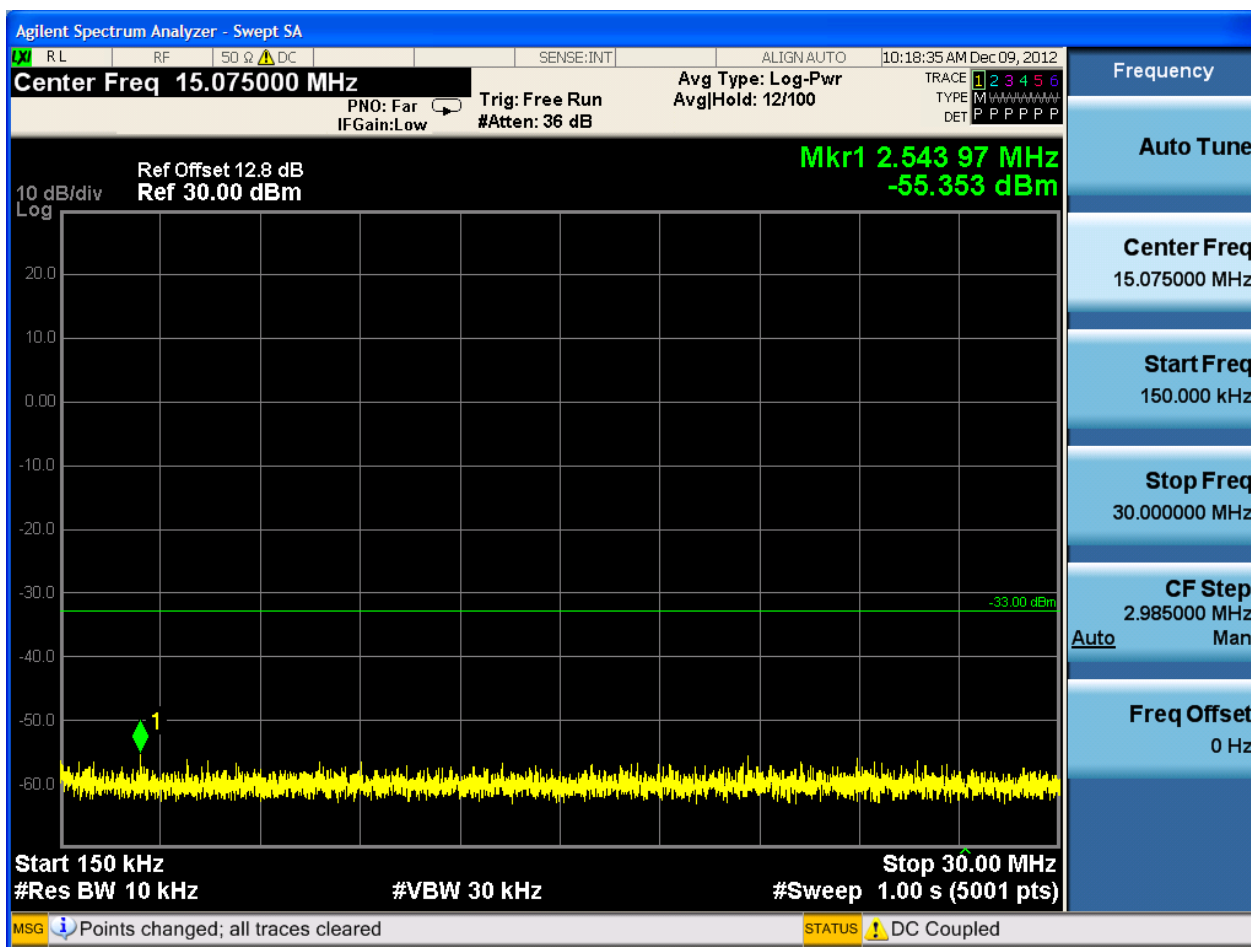






4.2.2.1.3 Test Channel = HCH



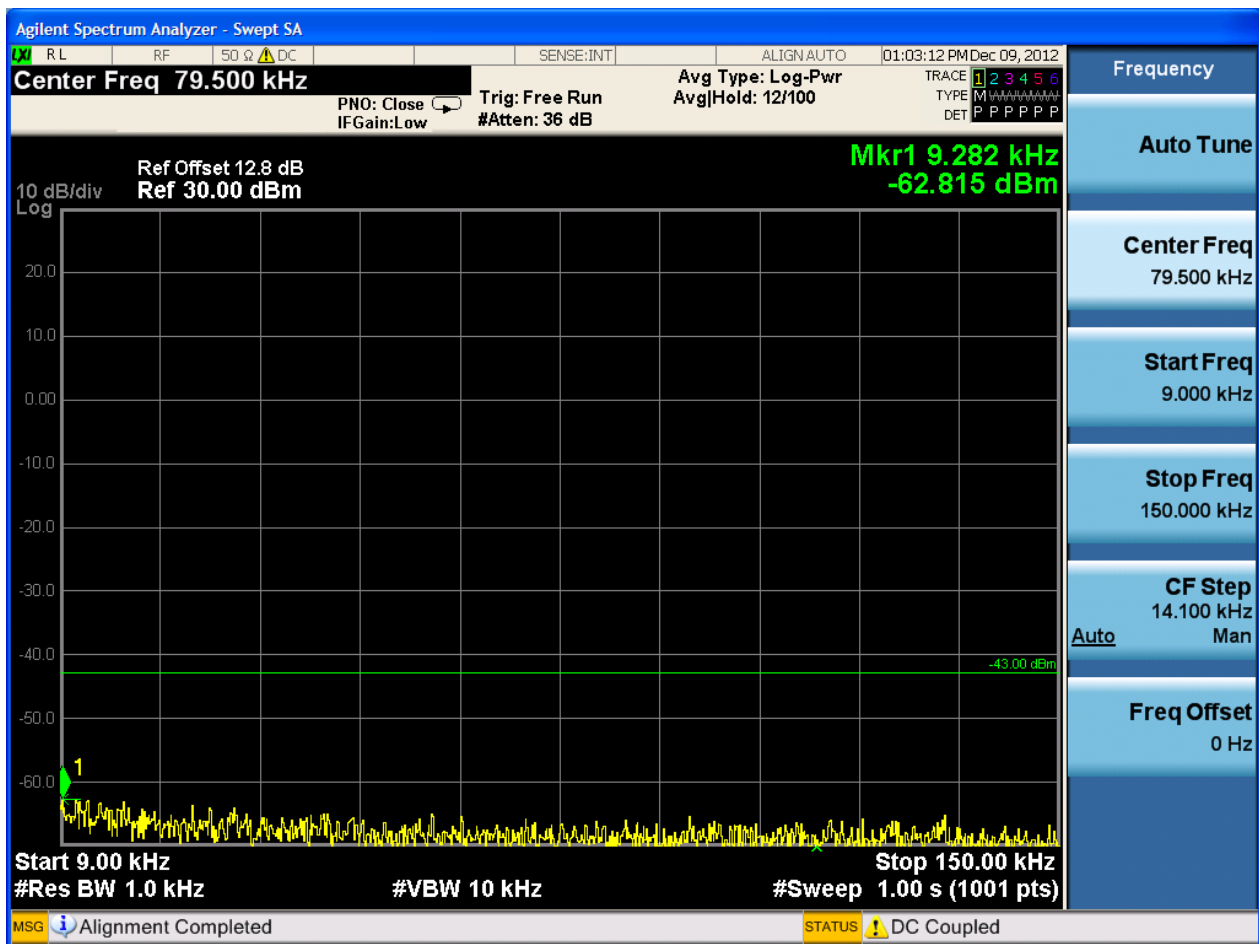


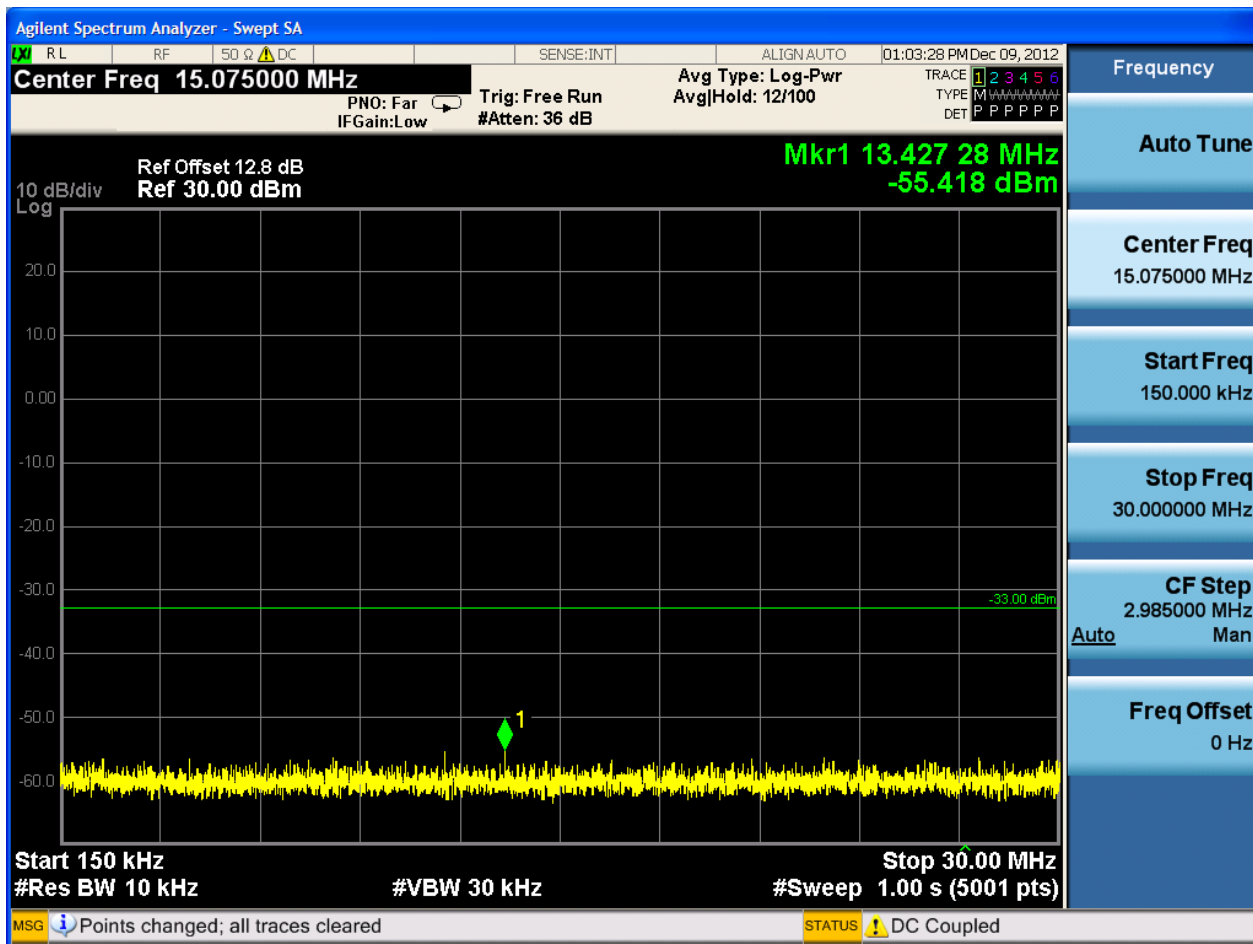


4.2.3 Test Band = WCDMA1700

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



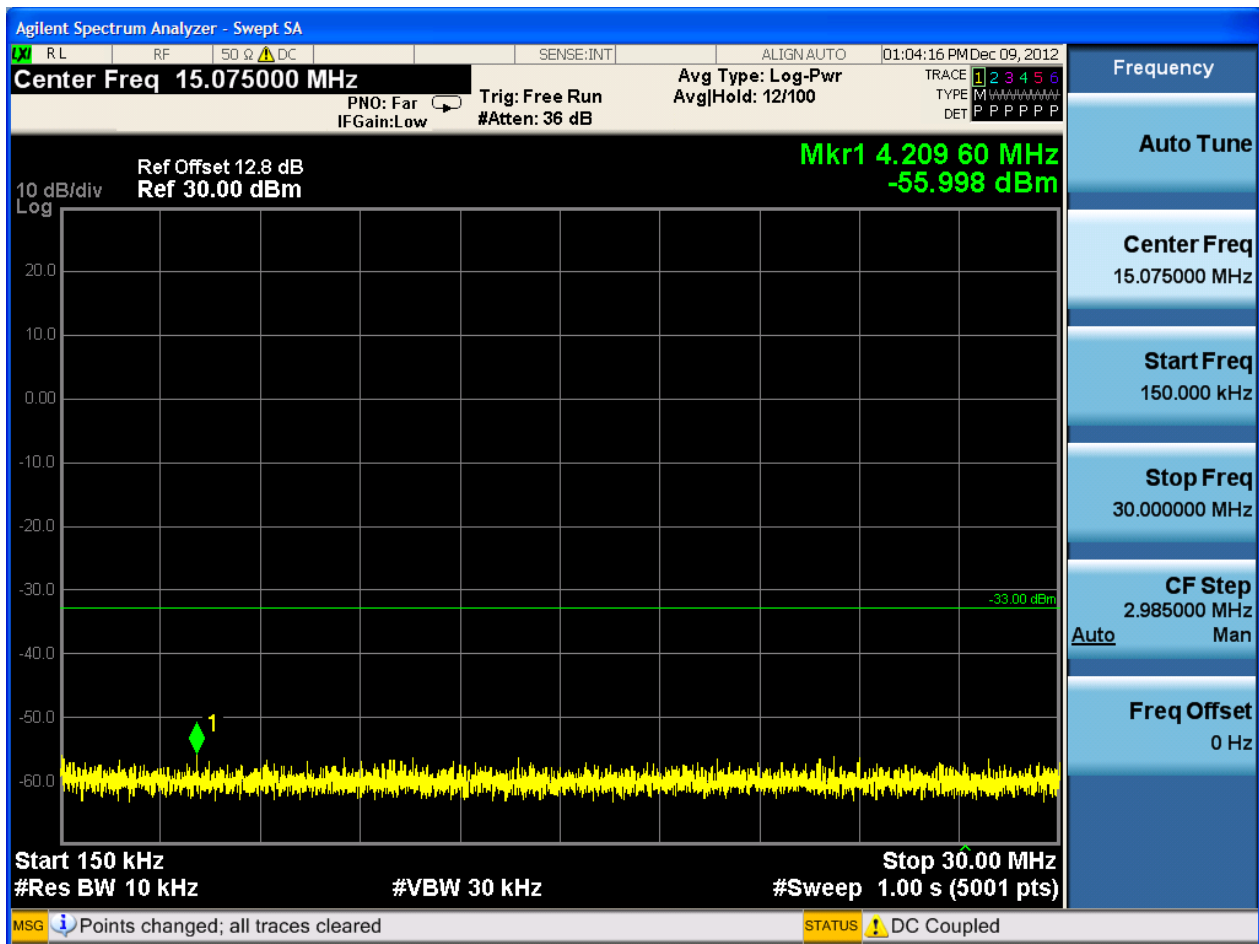






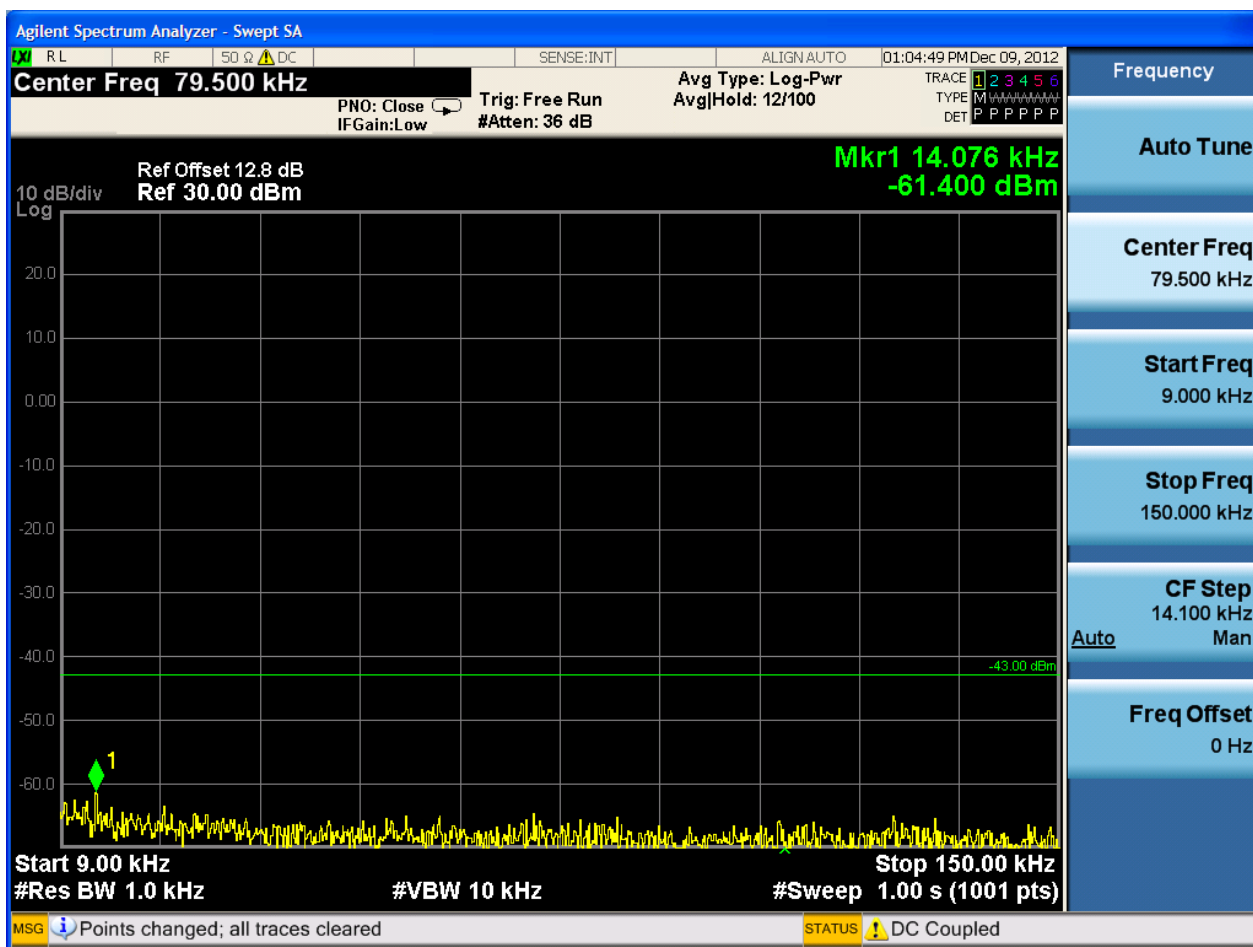
4.2.2.1.2 Test Channel = MCH

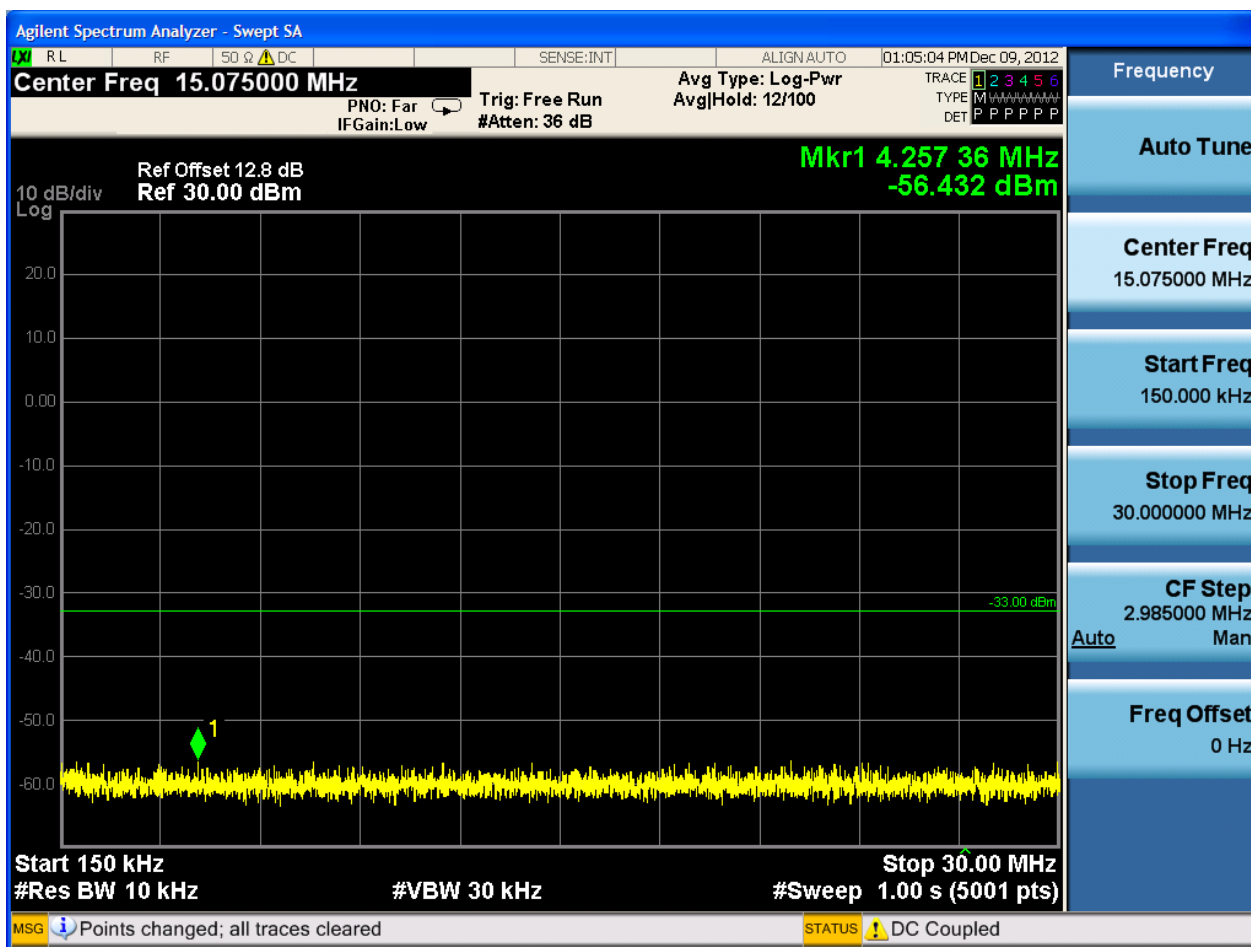






4.2.2.1.3 Test Channel = HCH







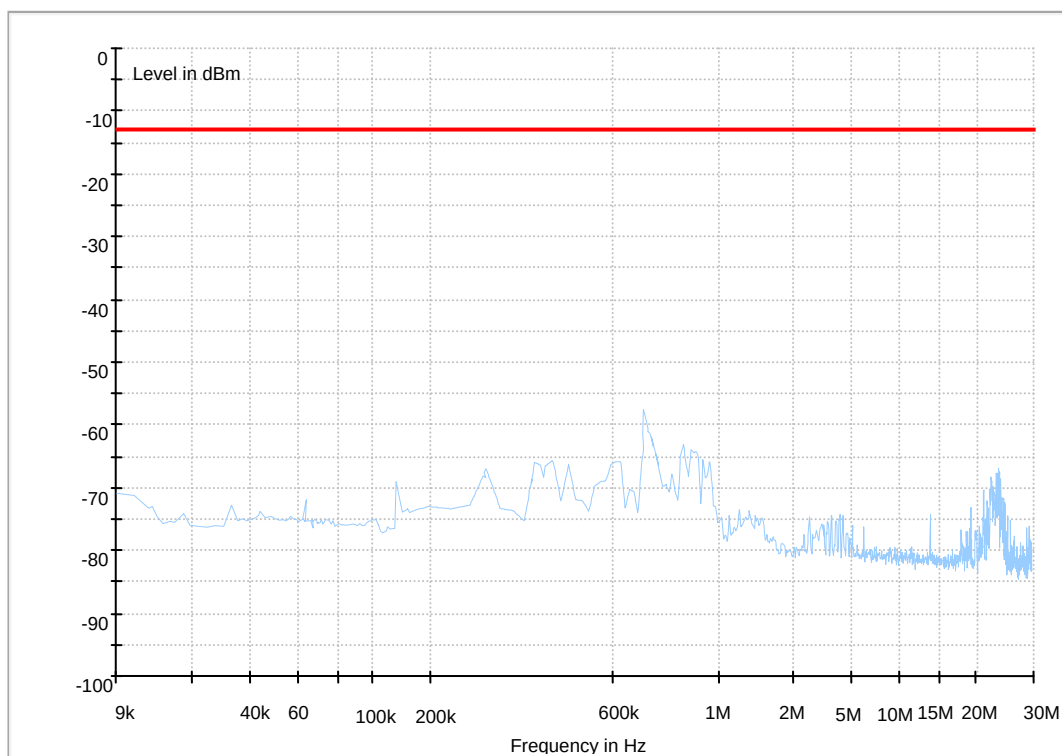
5Appendix_E: Radiated spurious emission

5.1For GSM

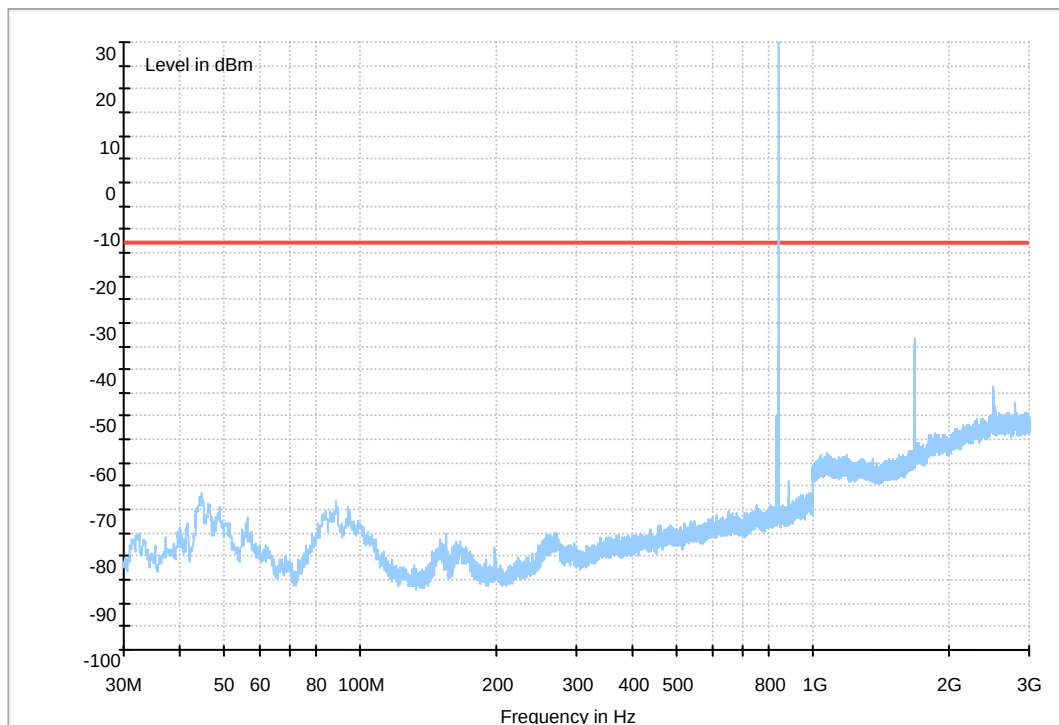
5.1.1Test Band=GSM850

5.1.1.1Test mode=GSM only

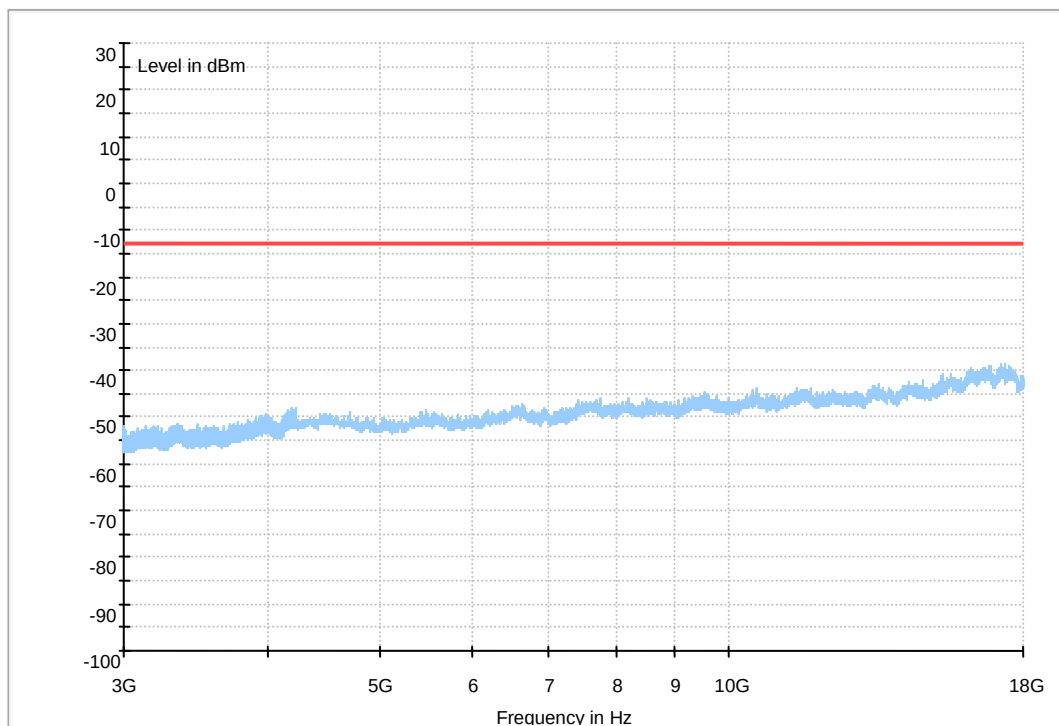
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

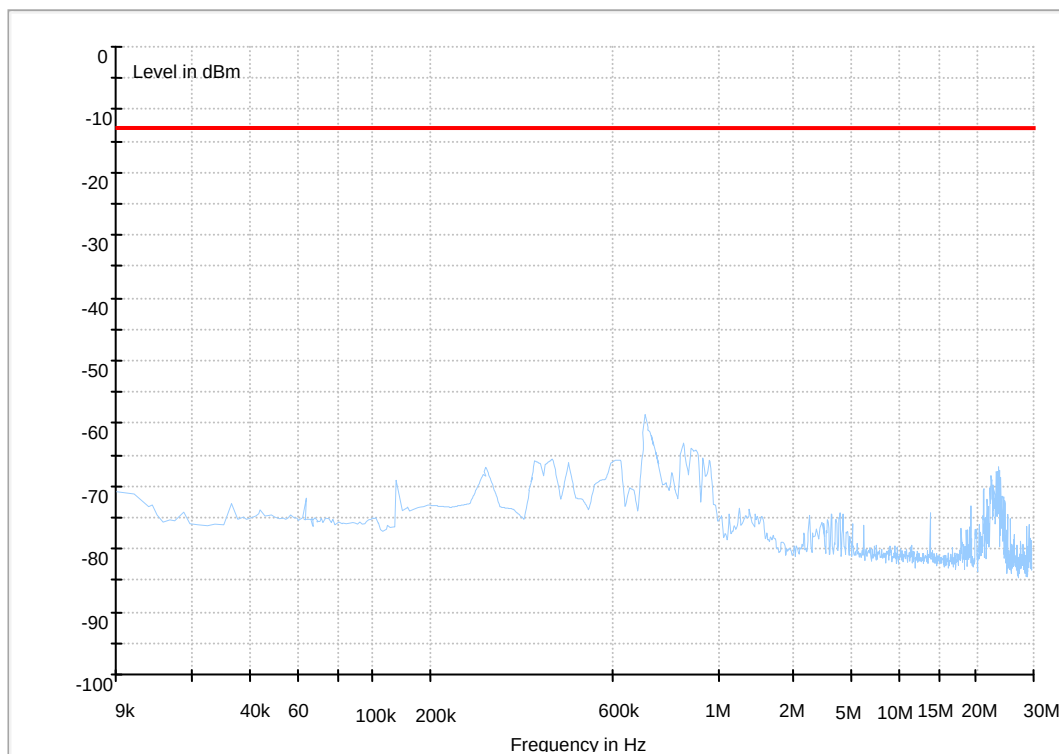


Traffic Mode (3GHz-18GHz)

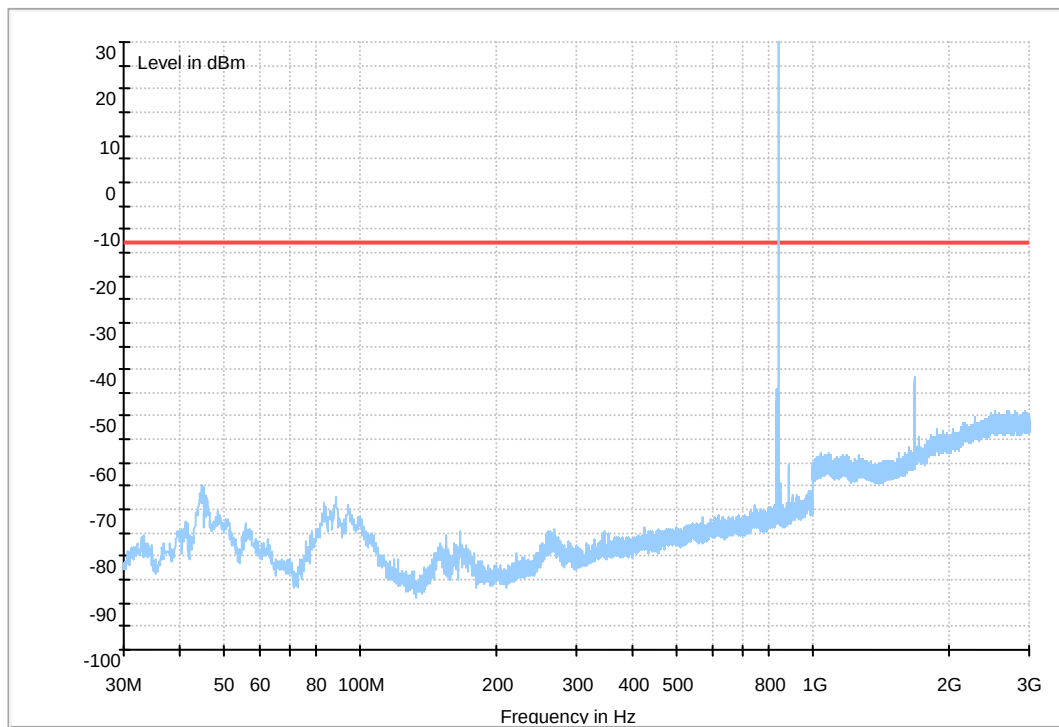


5.1.1.2 Test mode=GSM/GPRS

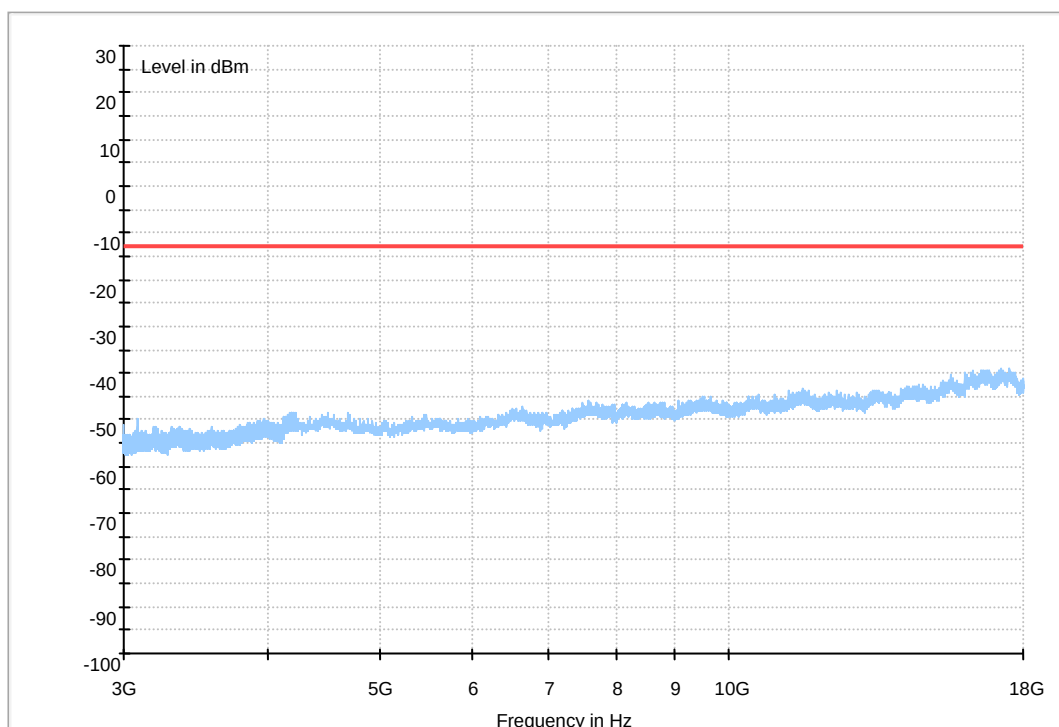
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

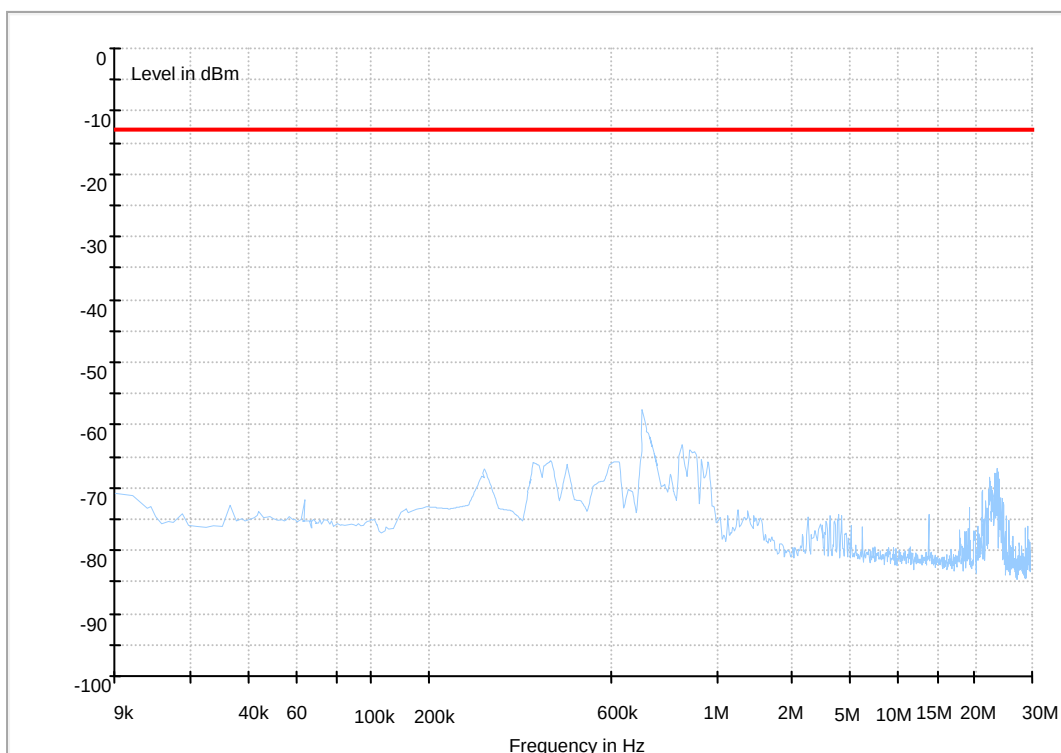


Traffic Mode (3GHz-18GHz)

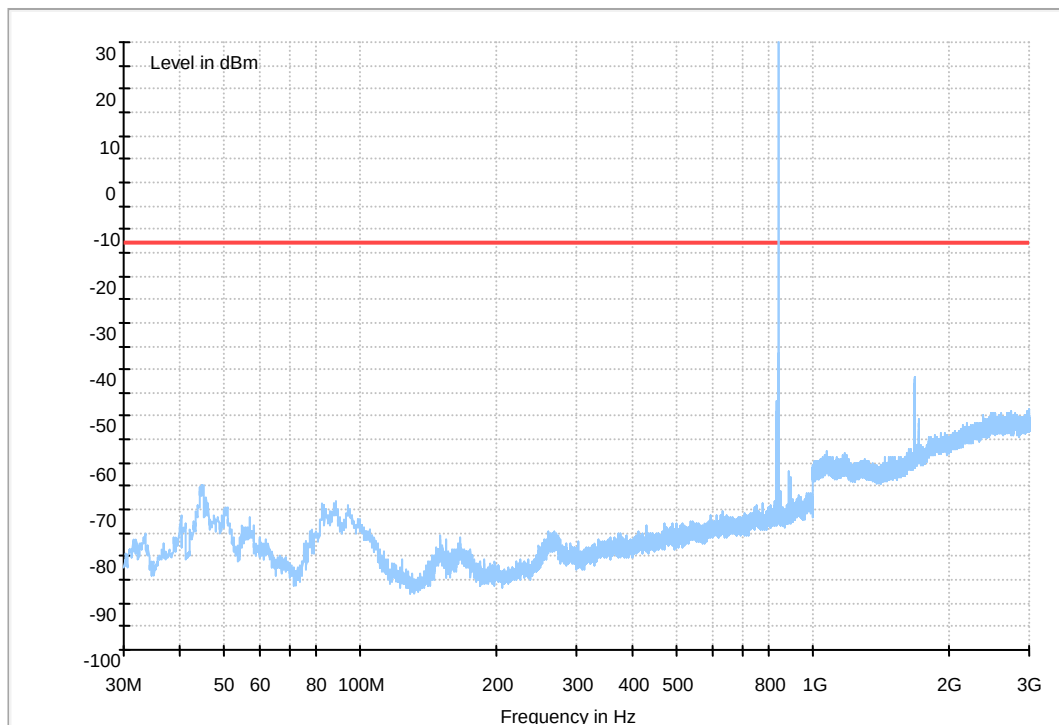


5.1.1.3 Test mode=GSM/EDGE

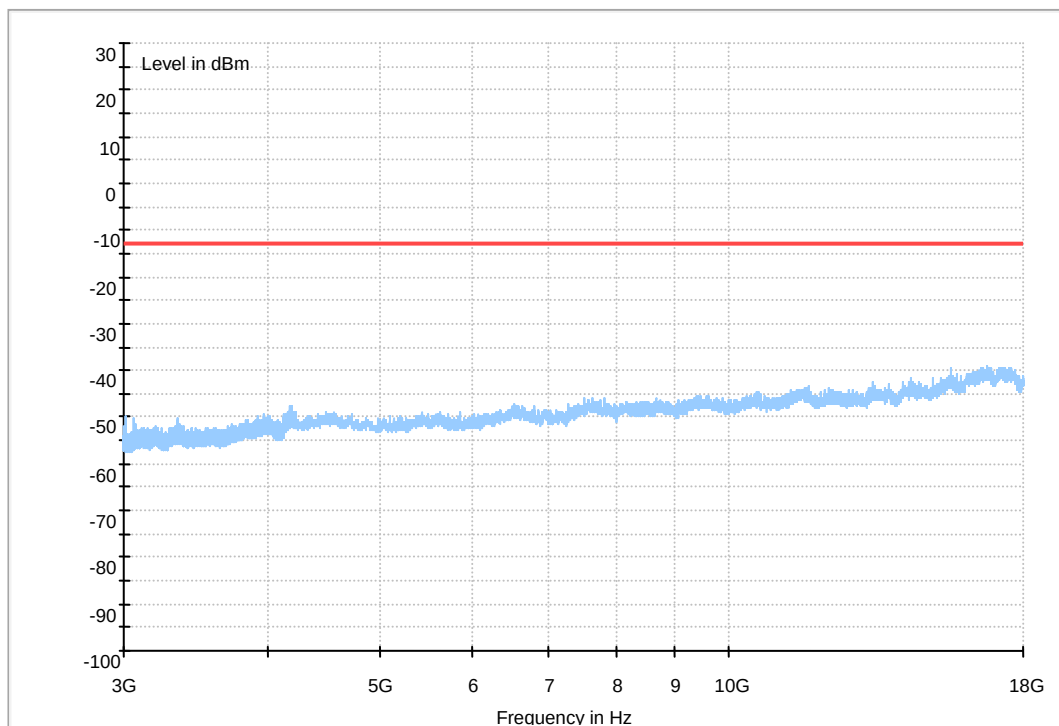
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



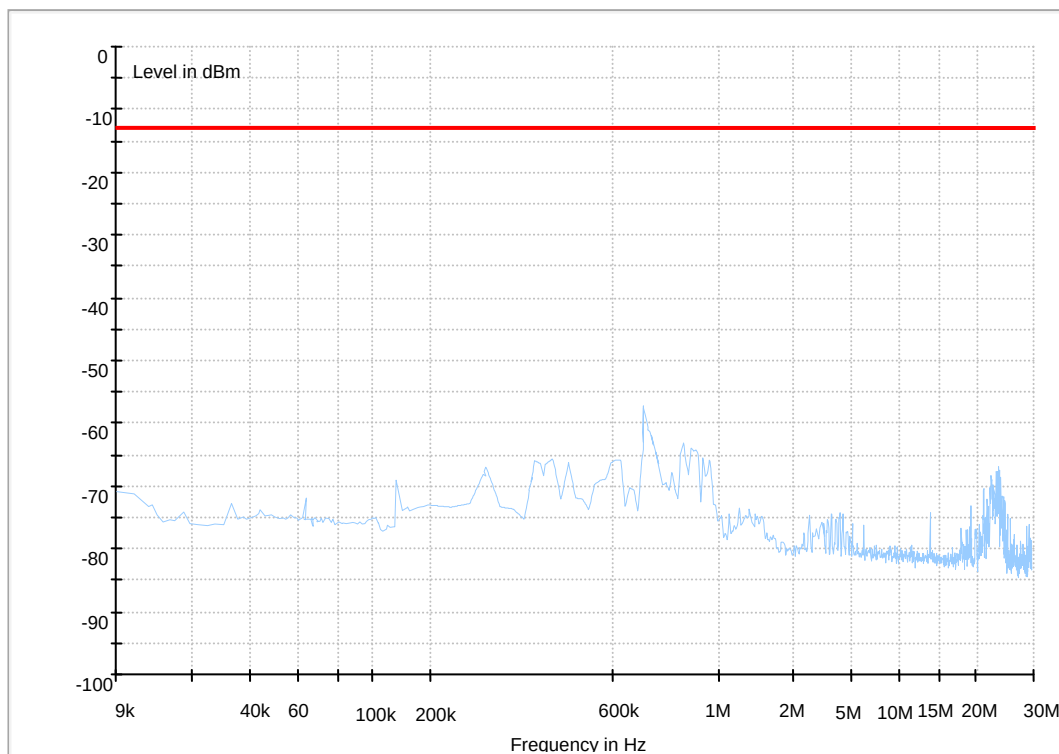
Traffic Mode (3GHz-18GHz)



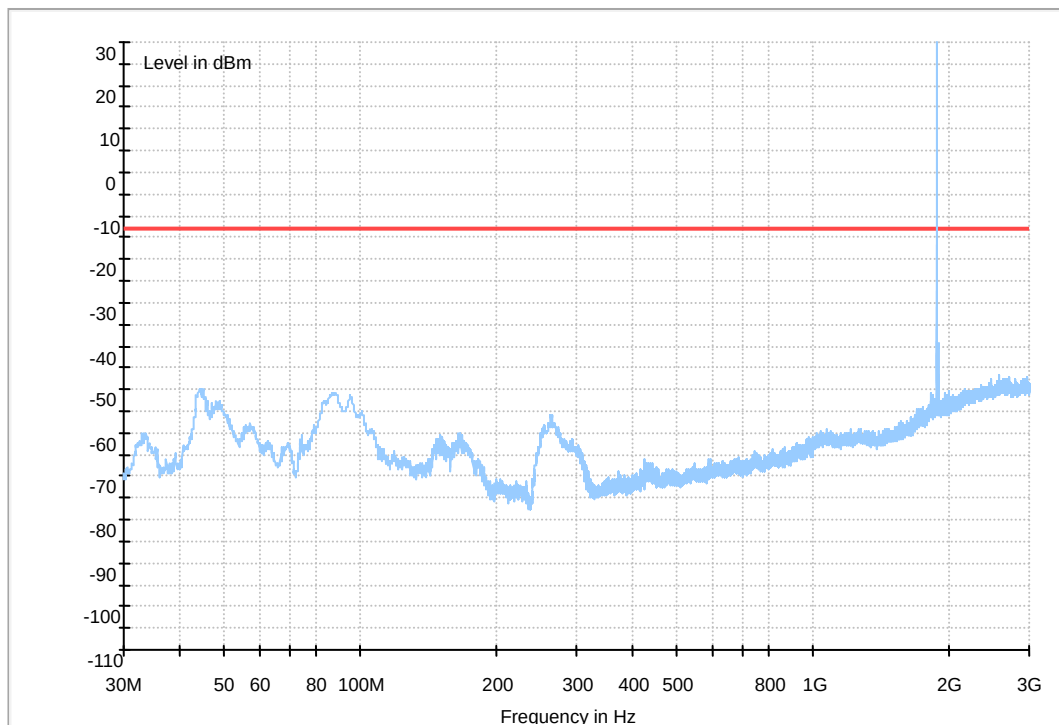
5.1.2 Test Band=GSM1900

5.1.2.1 Test mode=GSM only

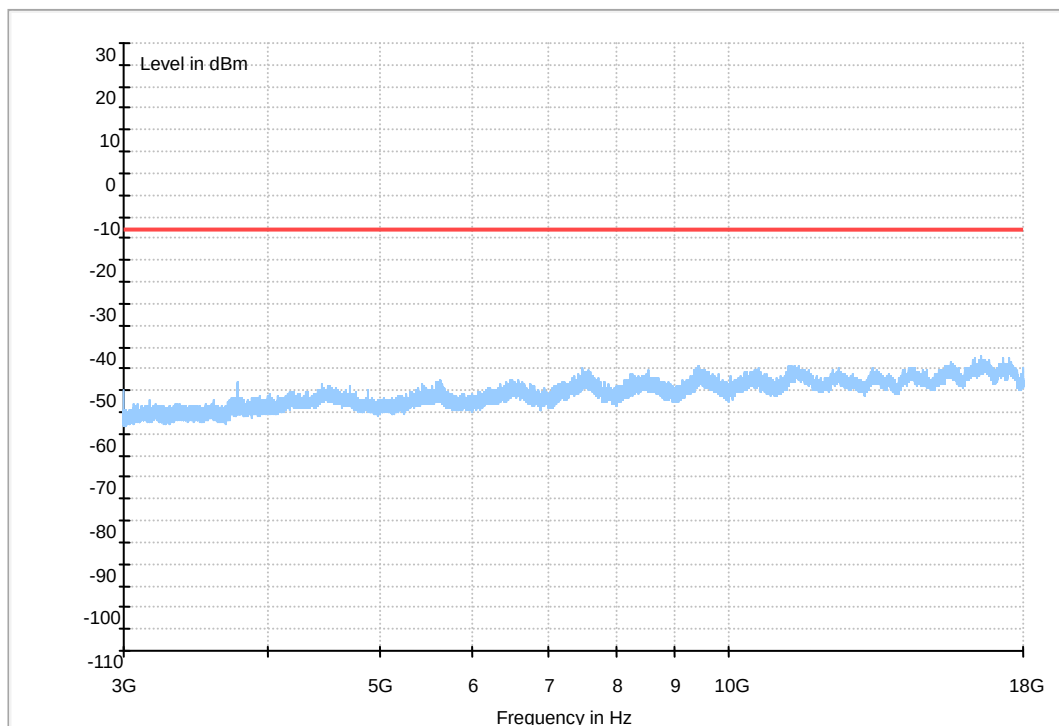
Traffic Mode (9kHz-30MHz)



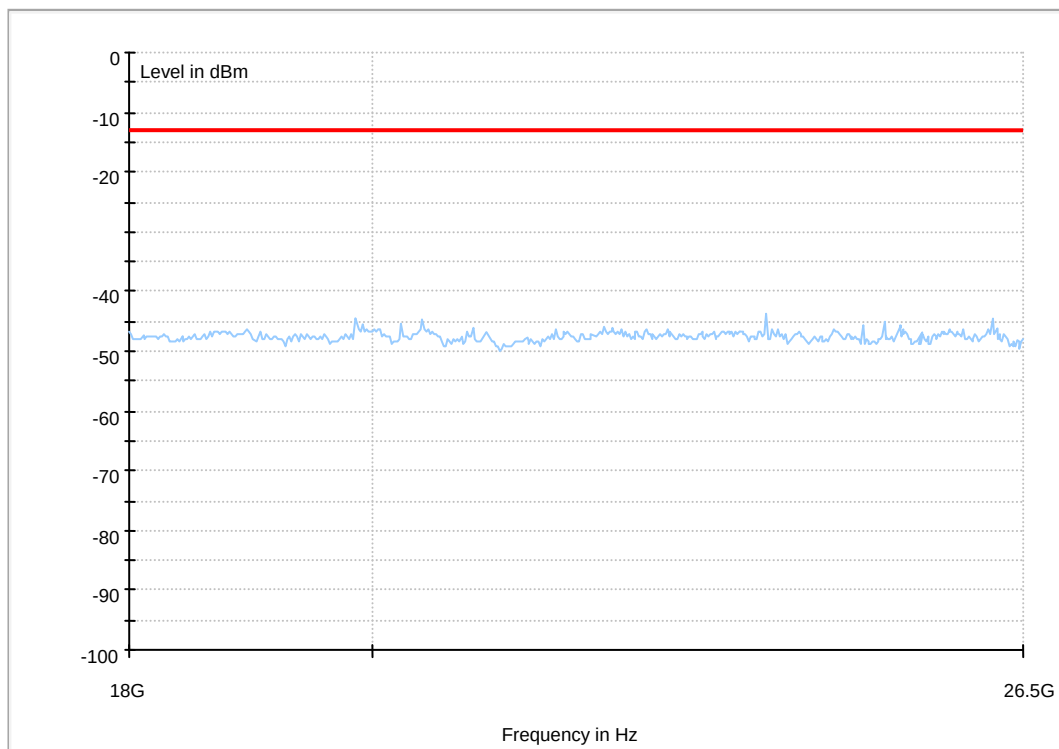
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

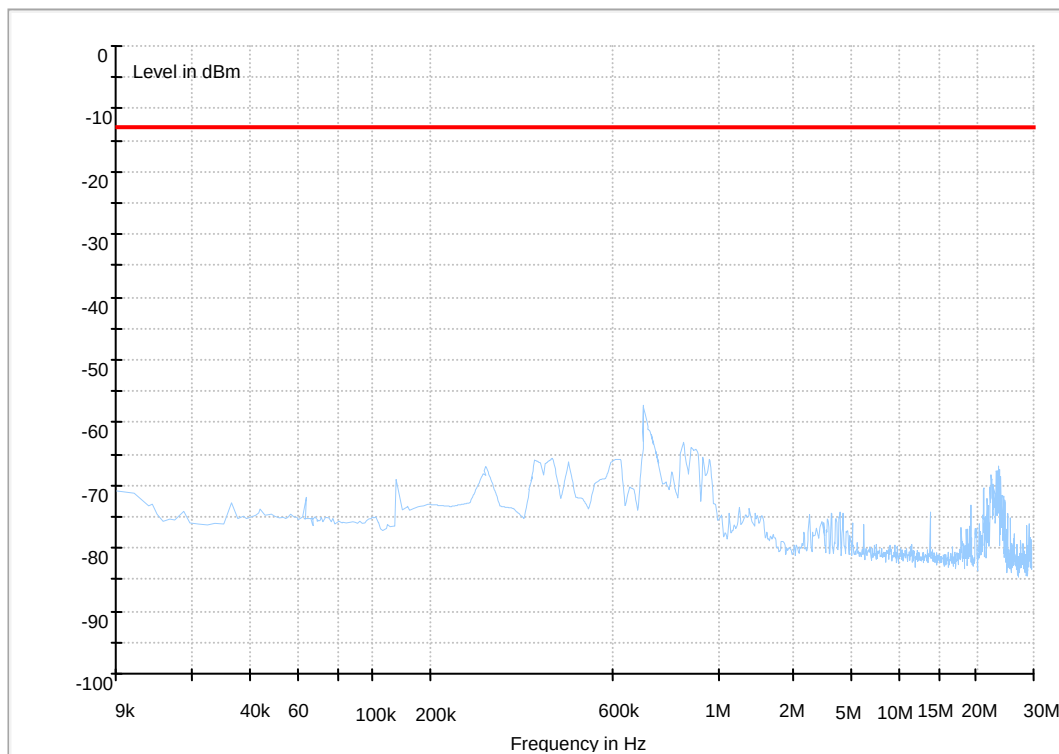


Traffic Mode (18GHz-26.5GHz)

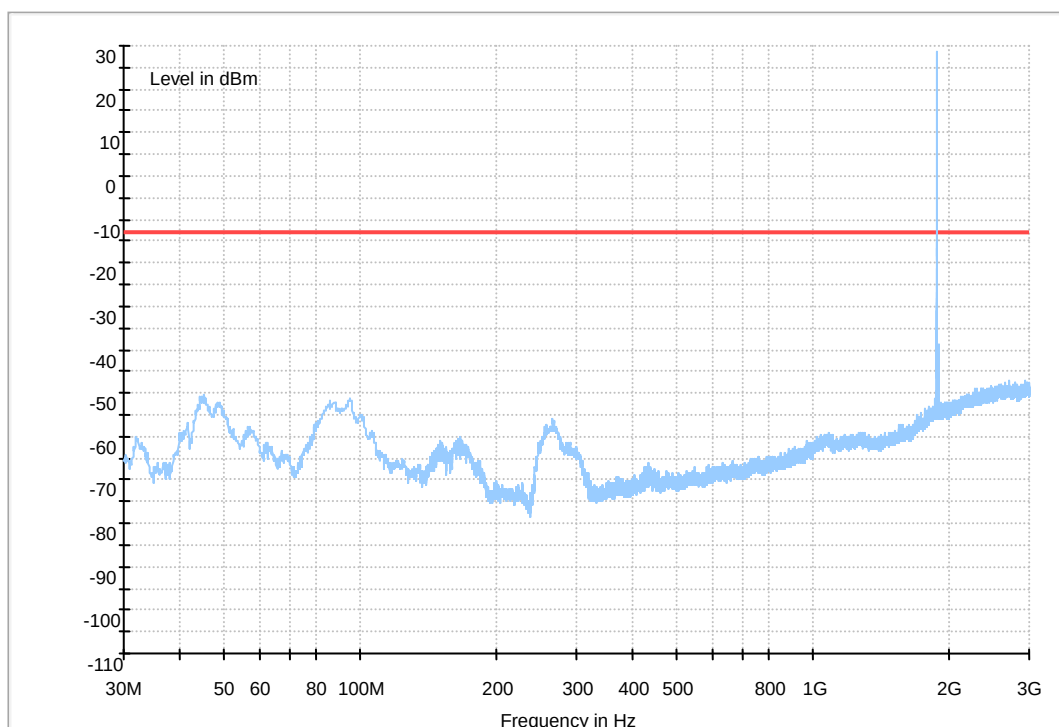


5.1.2.2 Test mode=GSM/GPRS

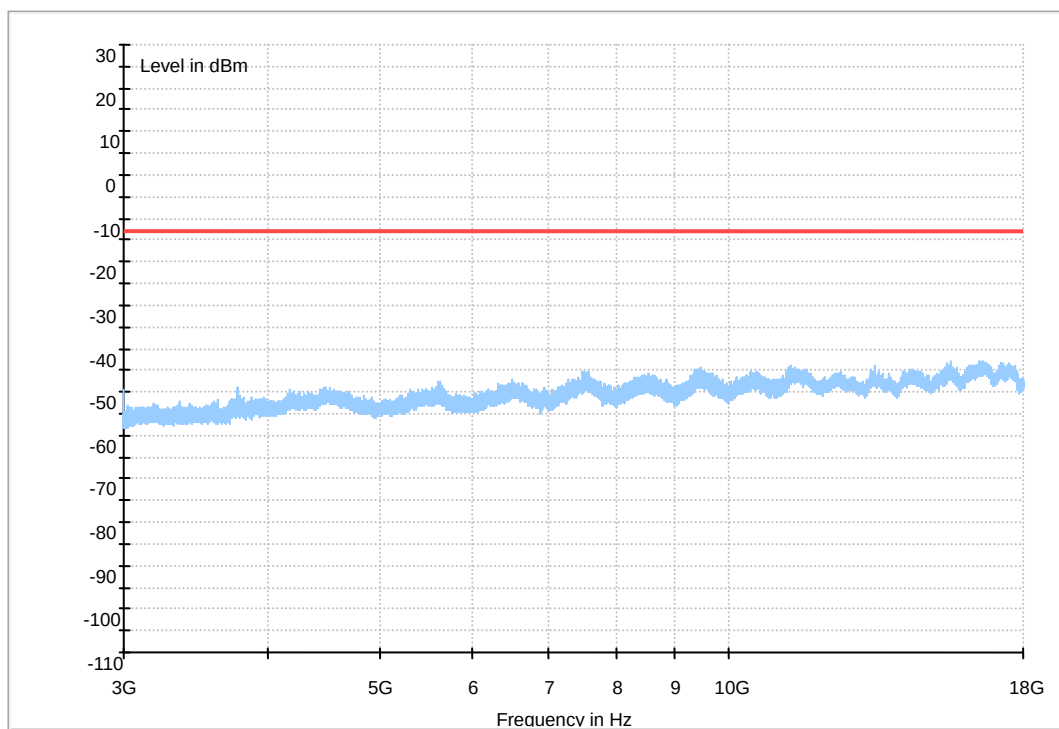
Traffic Mode (9kHz-30MHz)



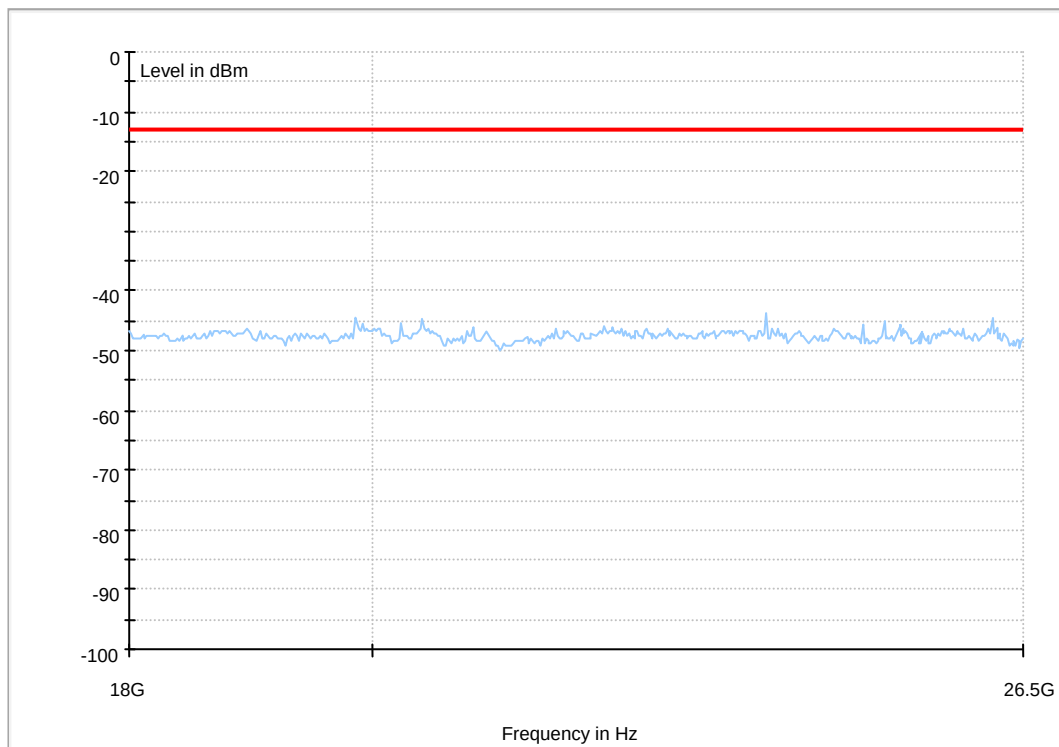
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

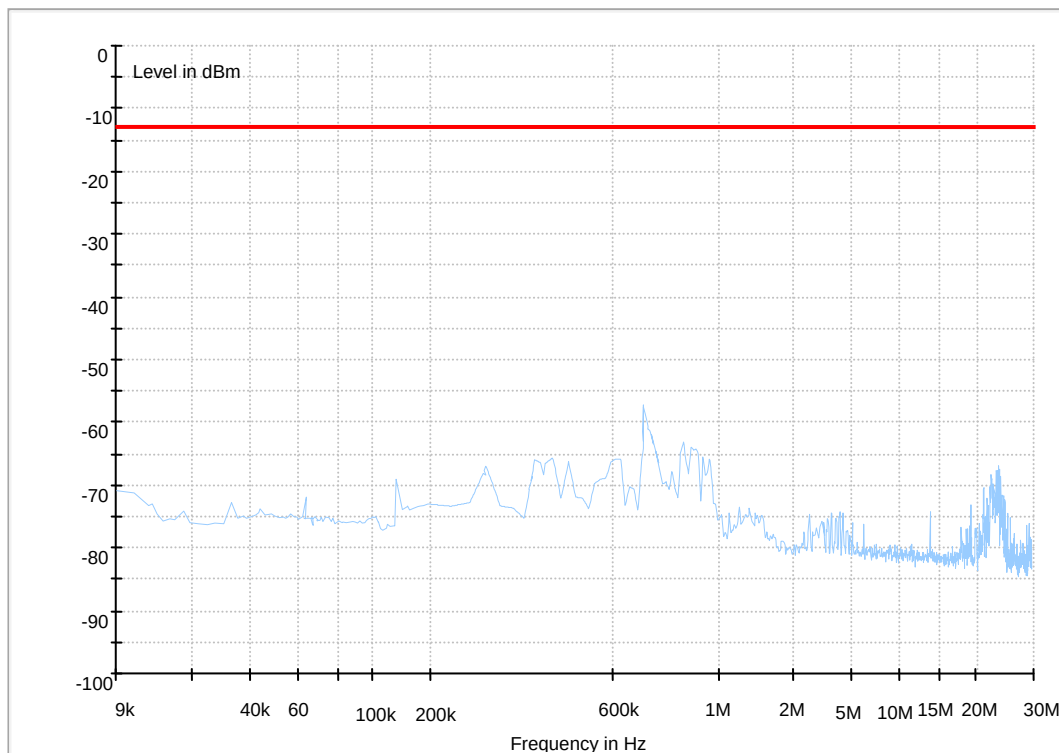


Traffic Mode (18GHz-26.5GHz)

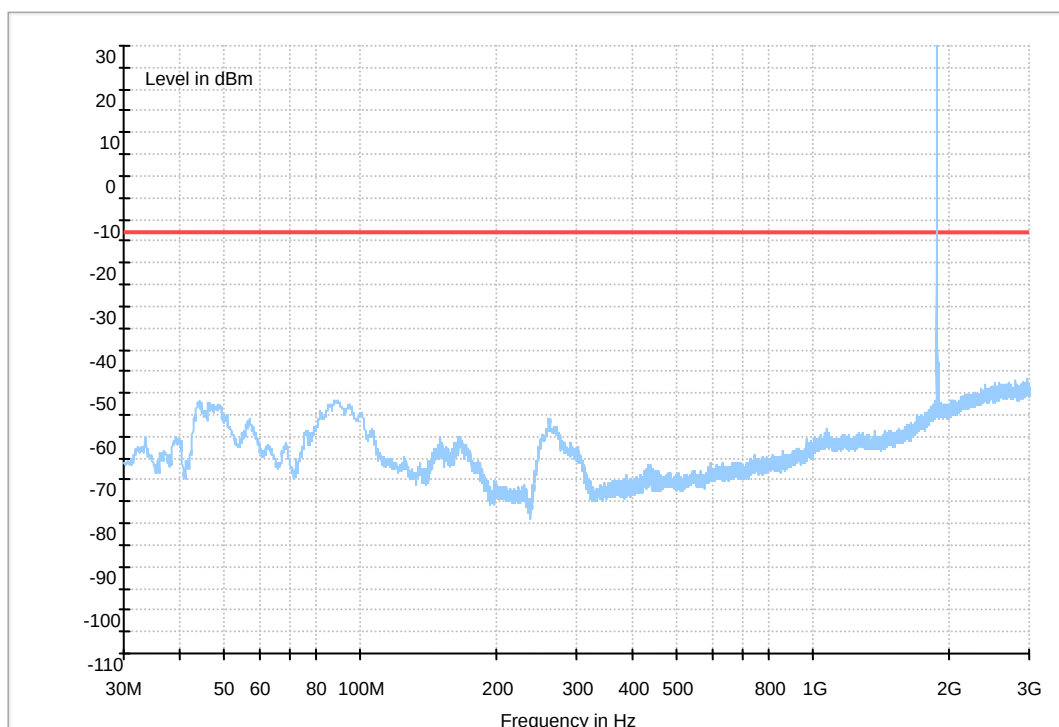


5.1.2.3 Test mode=GSM/EDGE

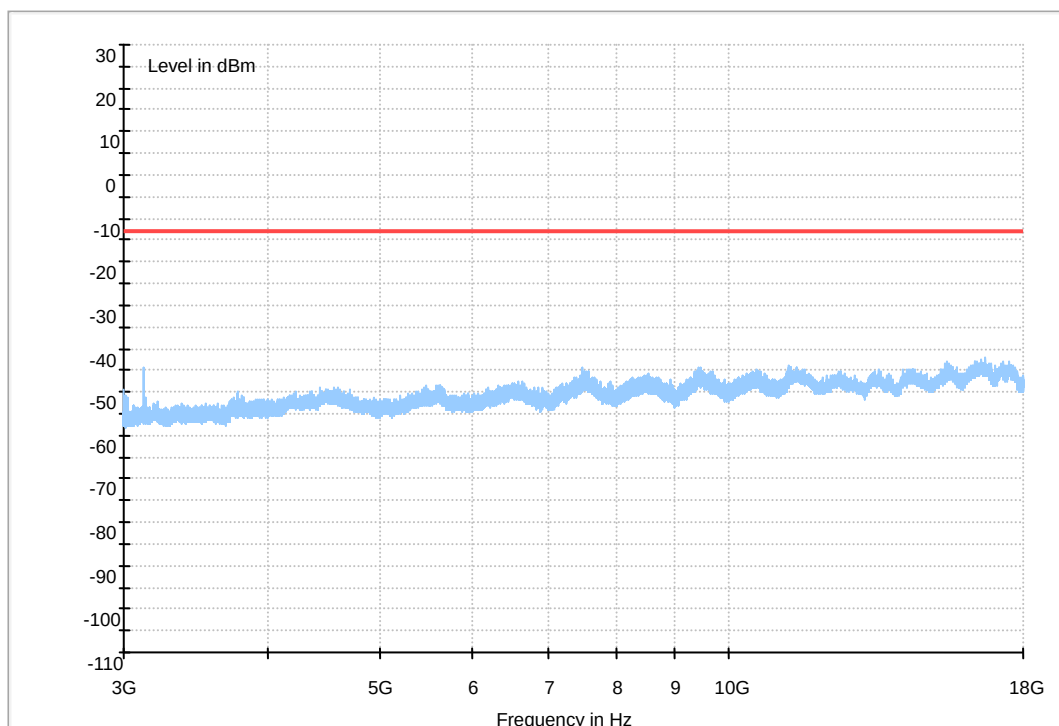
Traffic Mode (9kHz-30MHz)



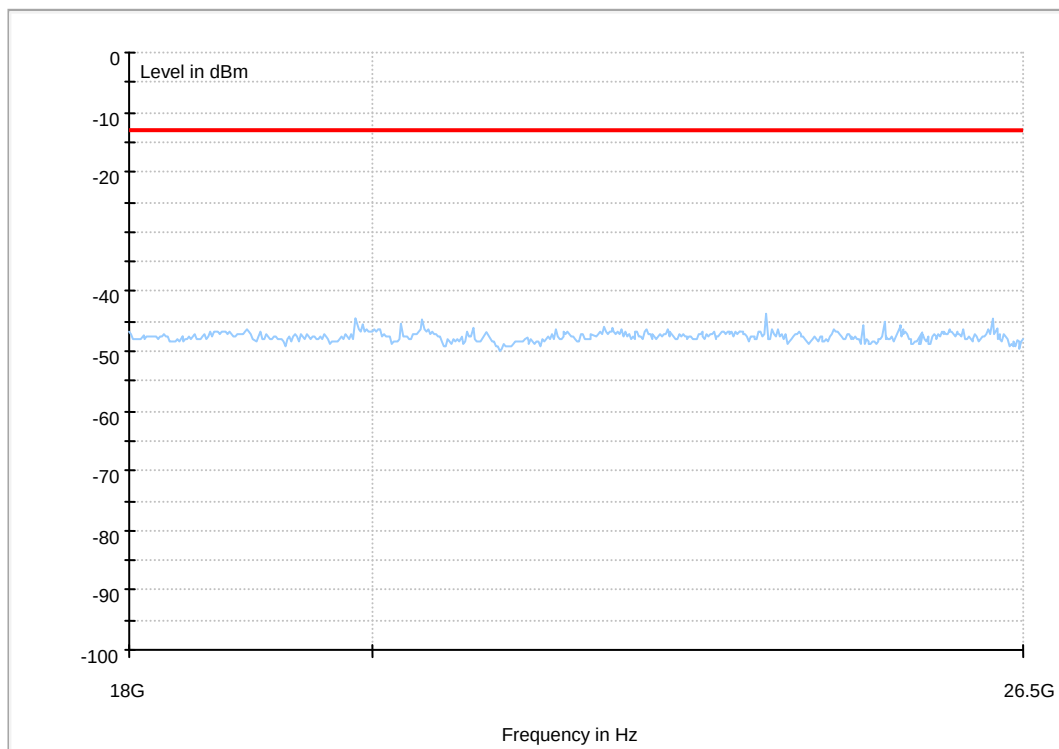
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)

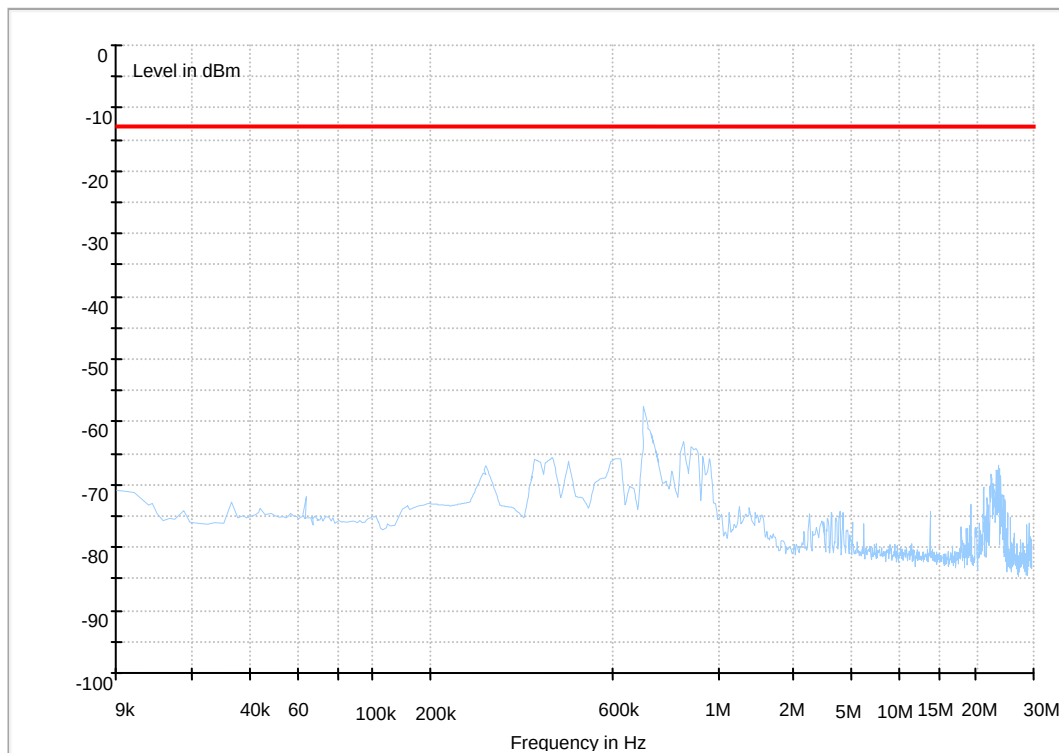


5.2For UMTS

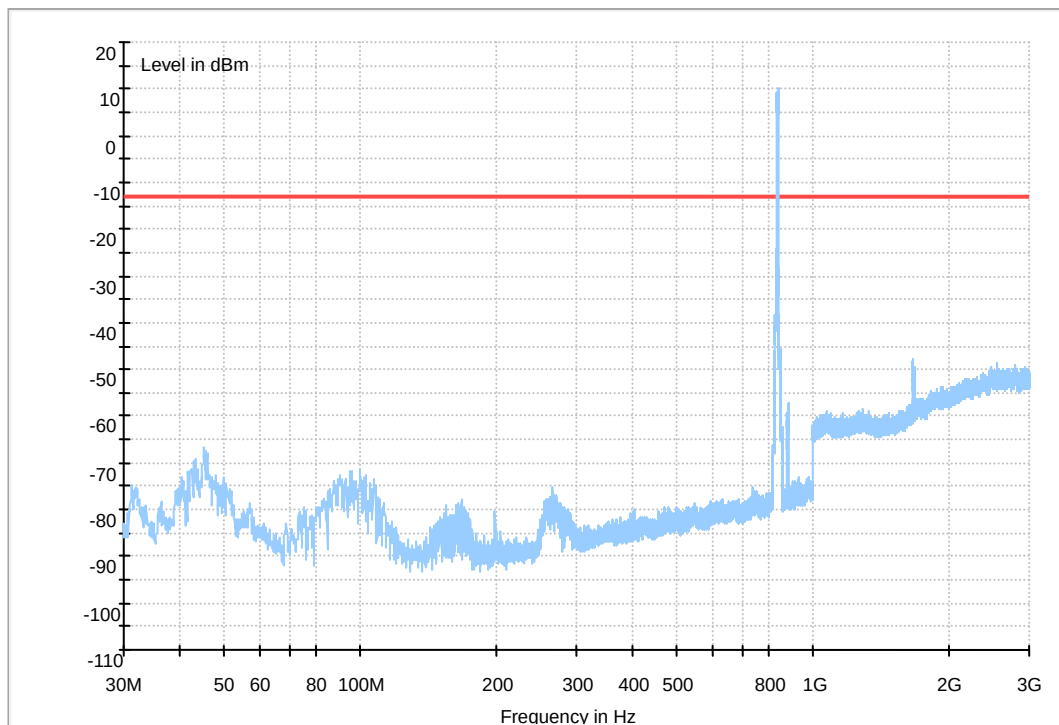
5.2.1Test Band=WCDMA850

5.2.1.1Test mode=UMTS/TM1

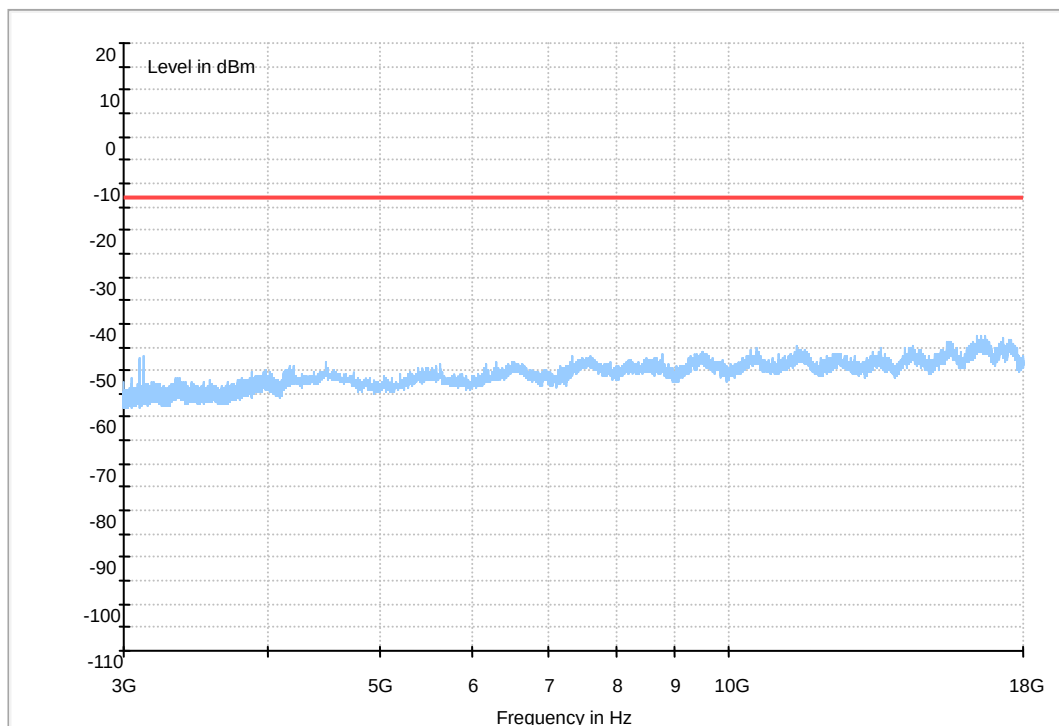
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

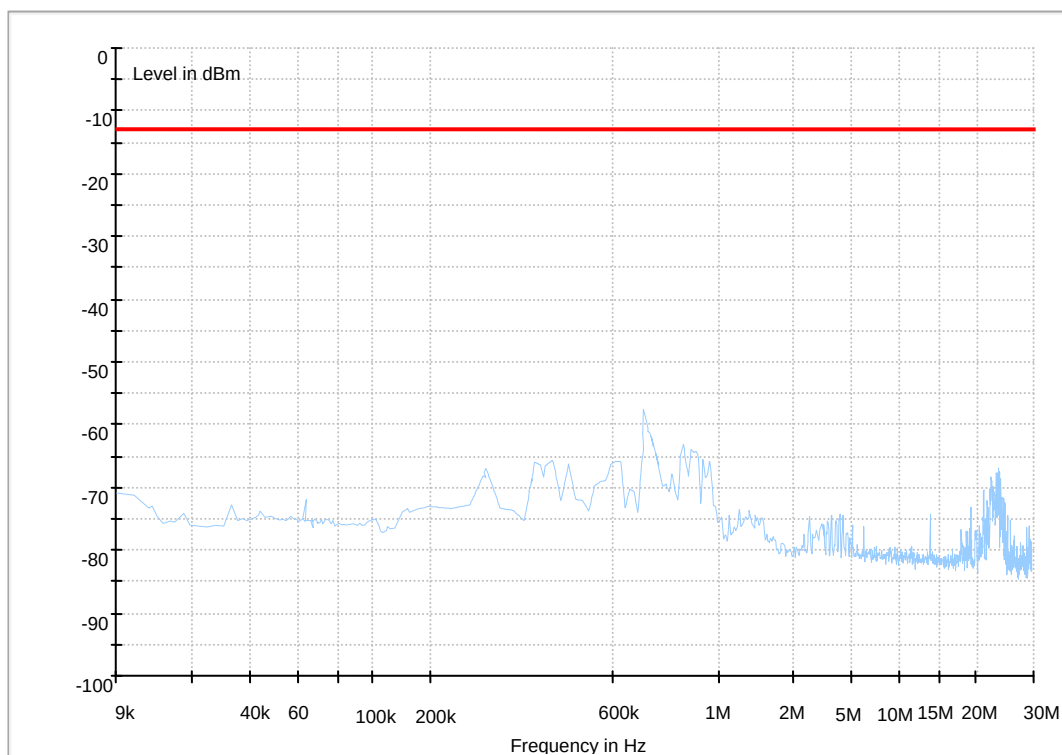


Traffic Mode (3GHz-18GHz)

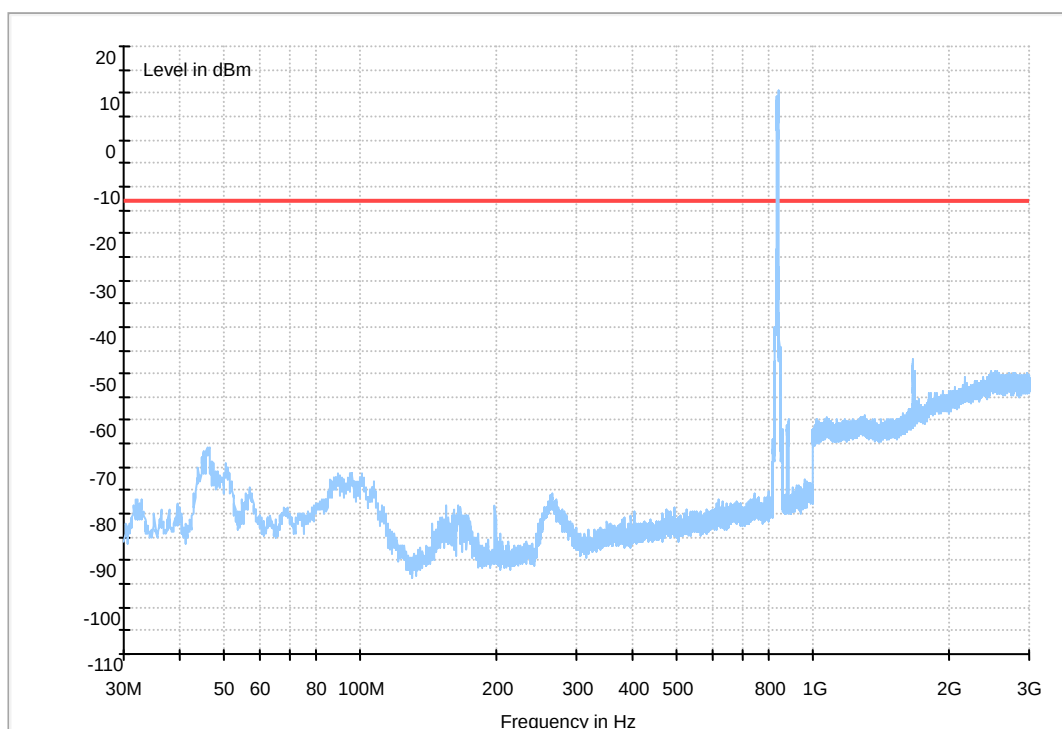


5.2.1.2 Test mode=UMTS/TM2

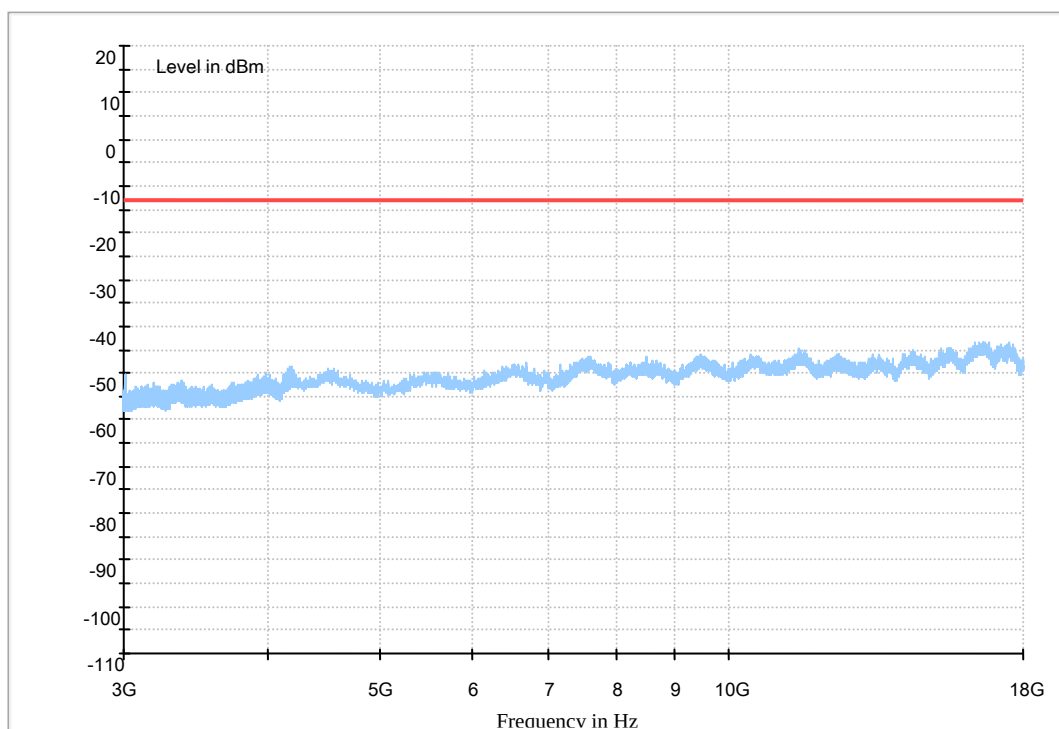
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

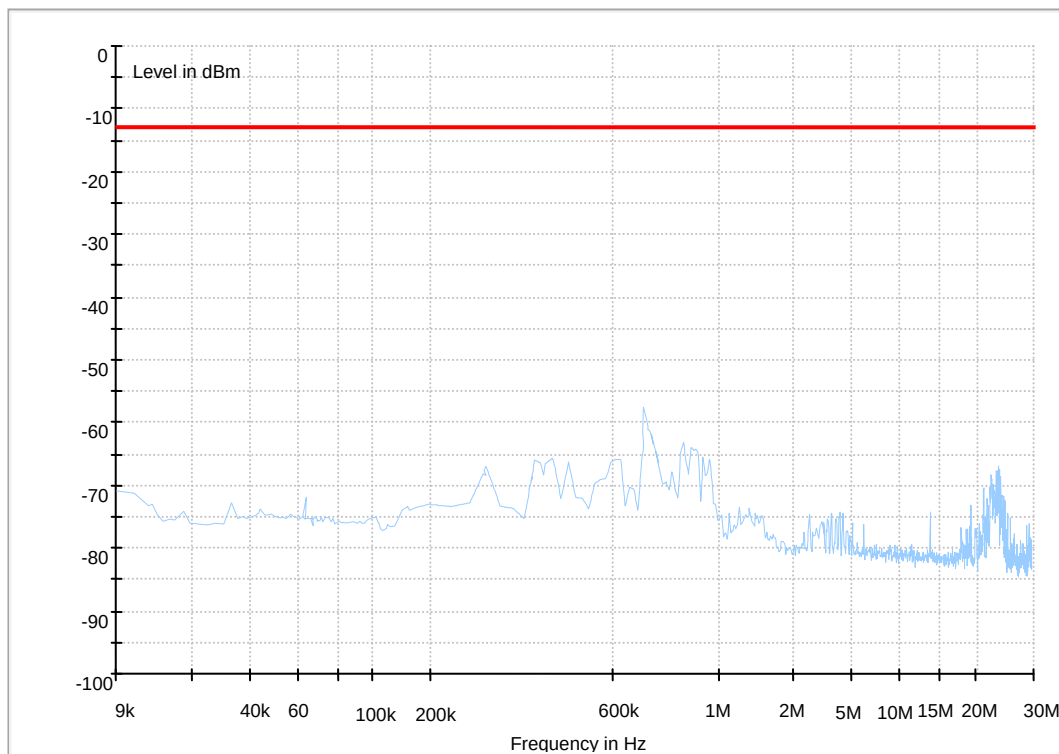


Traffic Mode (3GHz-18GHz)

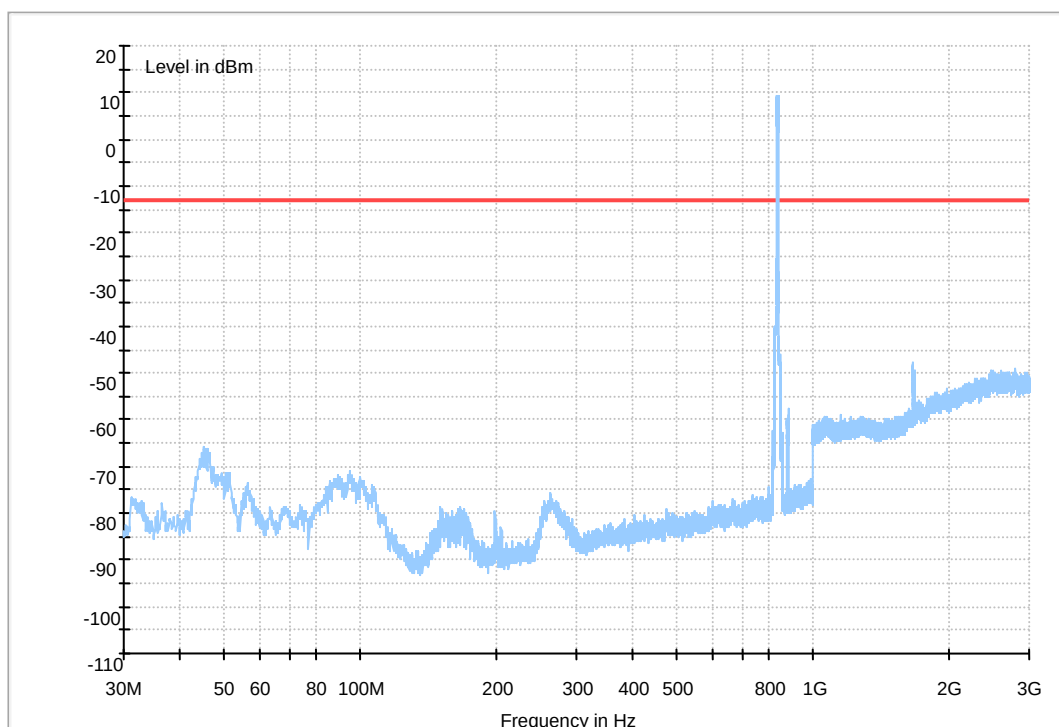


5.2.1.3 Test mode=UMTS/TM3

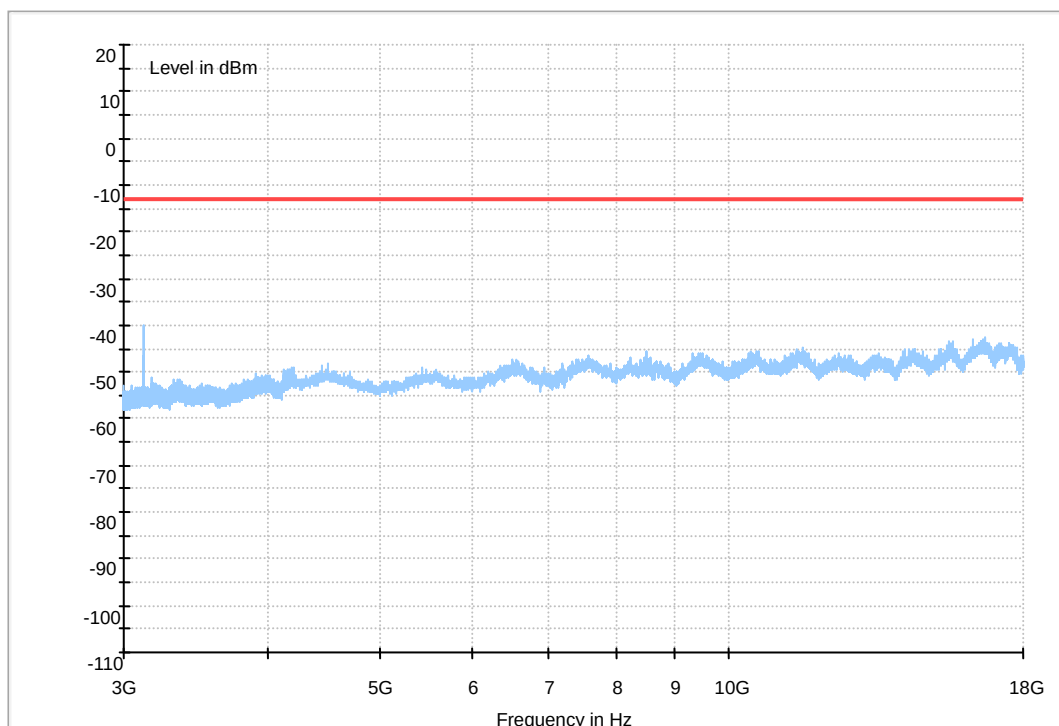
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



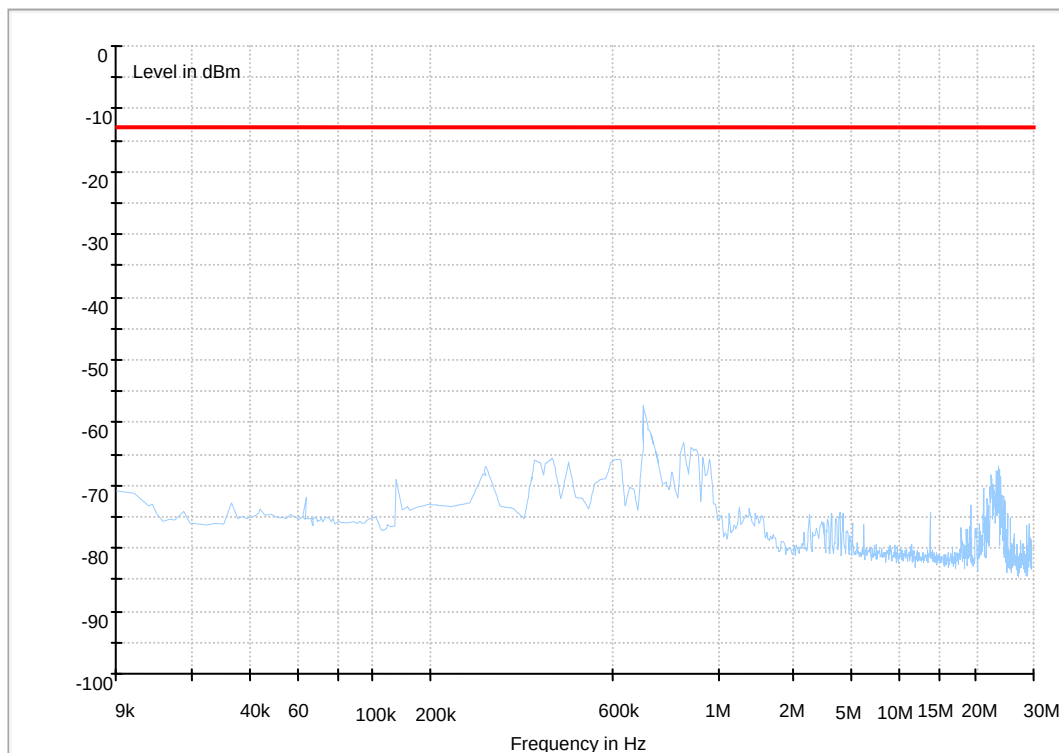
Traffic Mode (3GHz-18GHz)



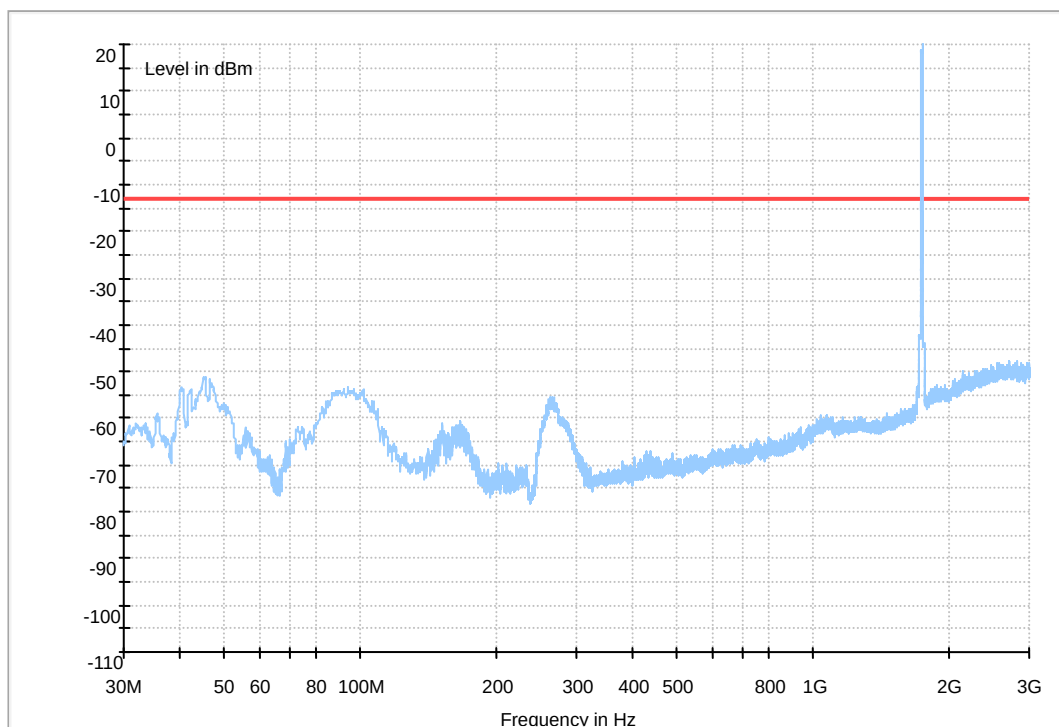
5.2.2 Test Band=WCDMA1700

5.2.2.1 Test mode=UMTS/TM1

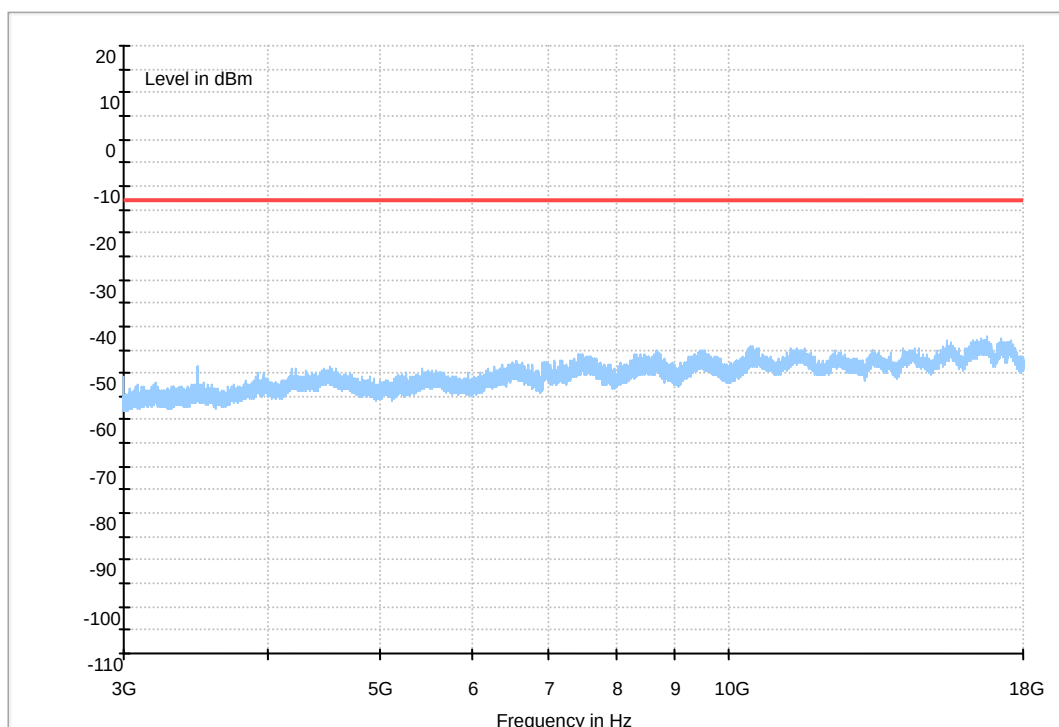
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

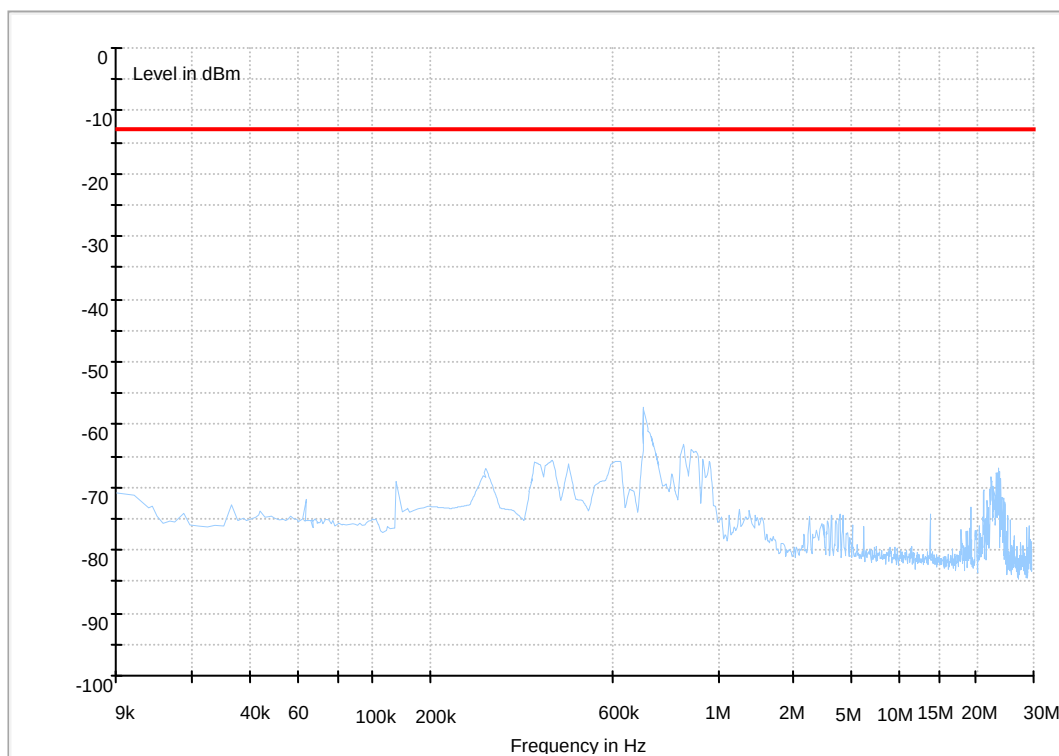


Traffic Mode (3GHz-18GHz)

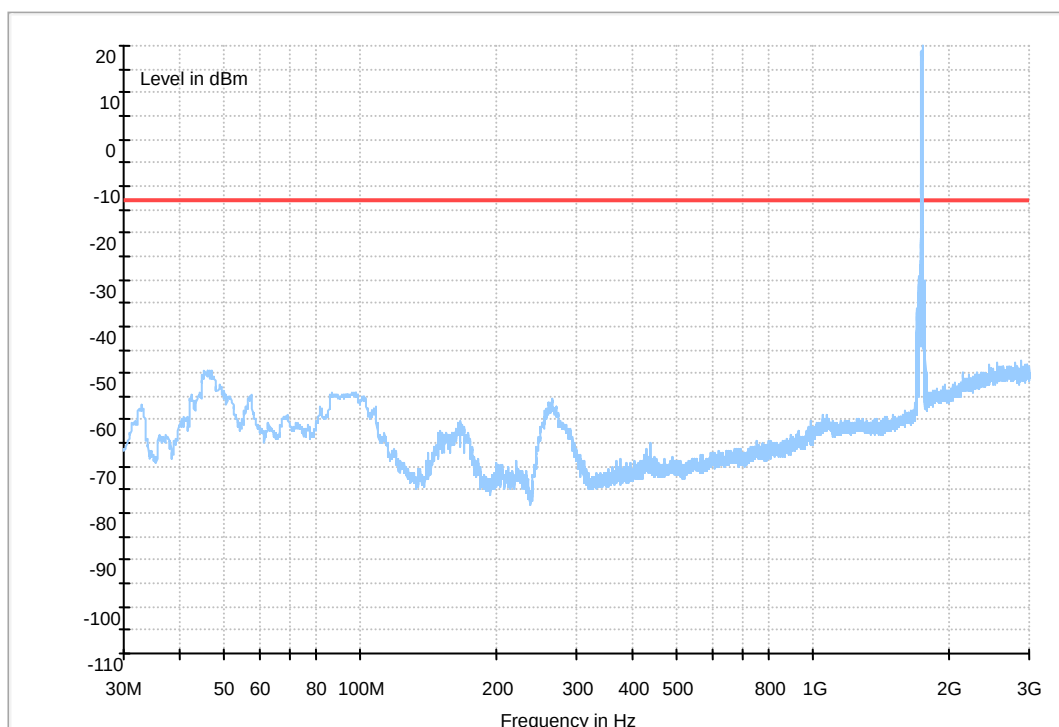


5.2.2.2 Test mode=UMTS/TM2

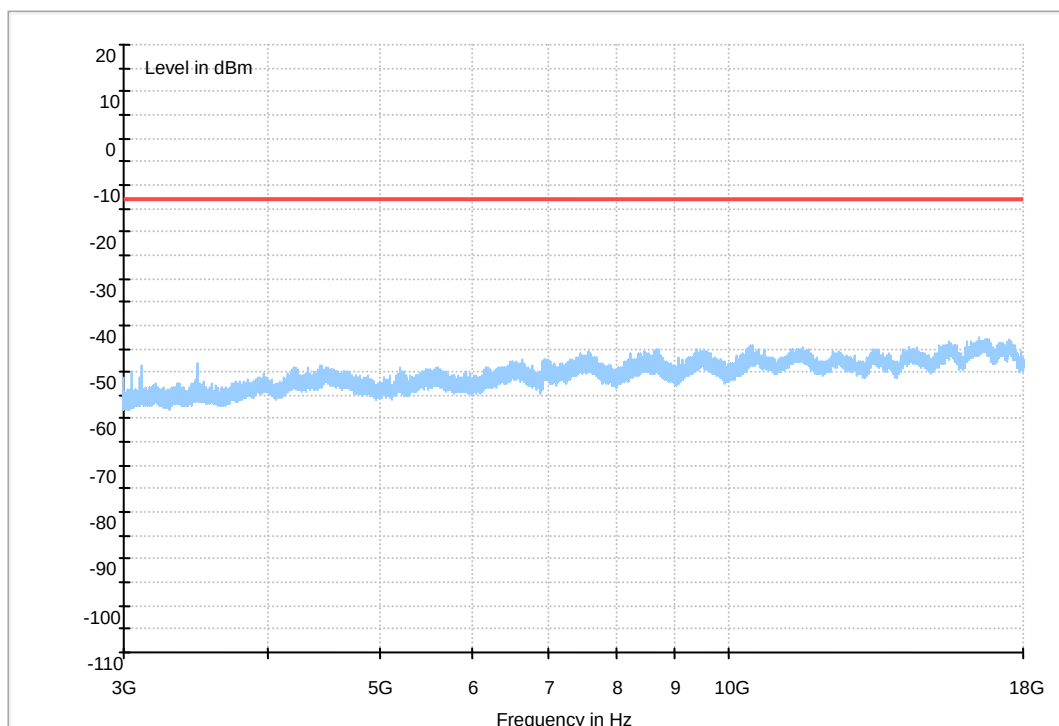
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

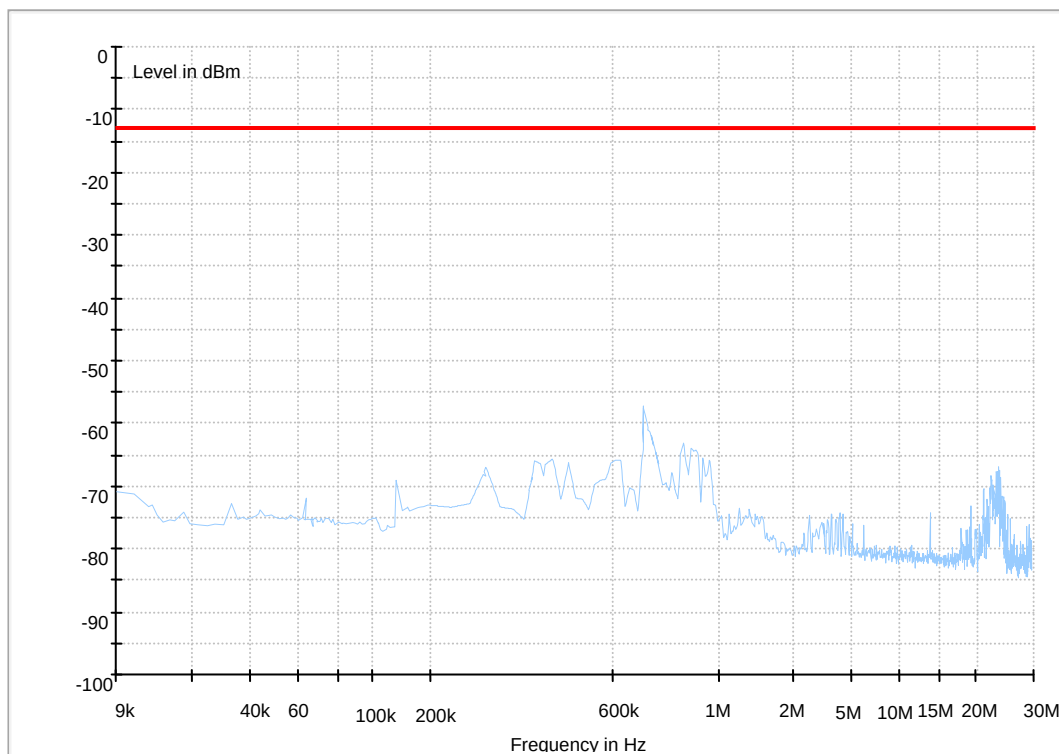


Traffic Mode (3GHz-18GHz)

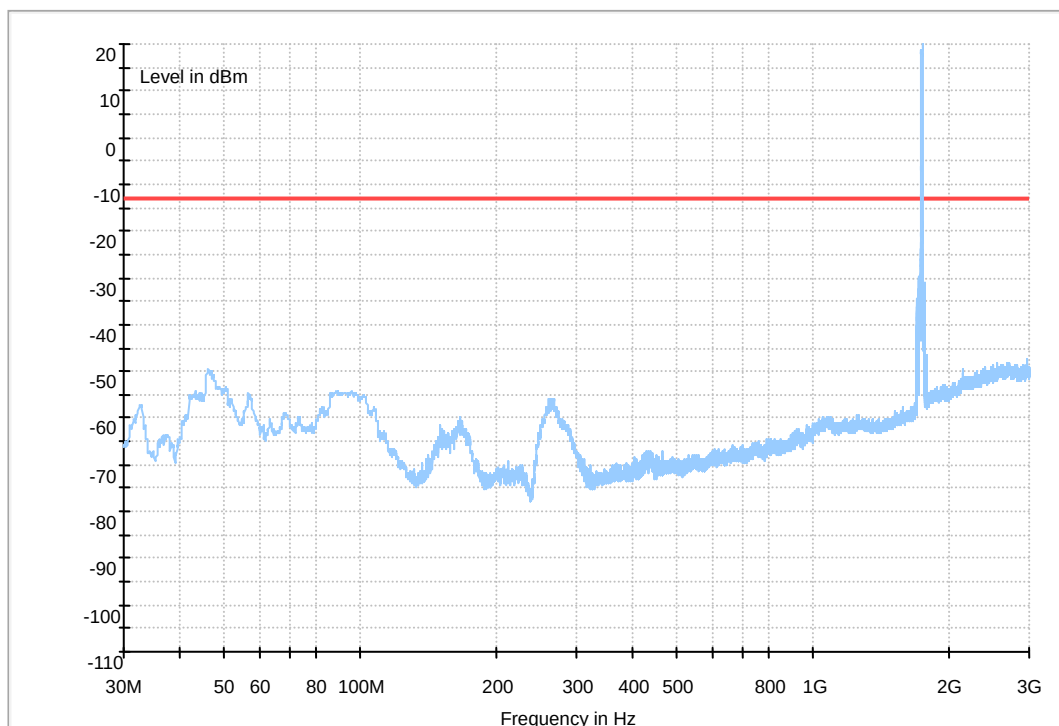


5.2.2.3 Test mode=UMTS/TM3

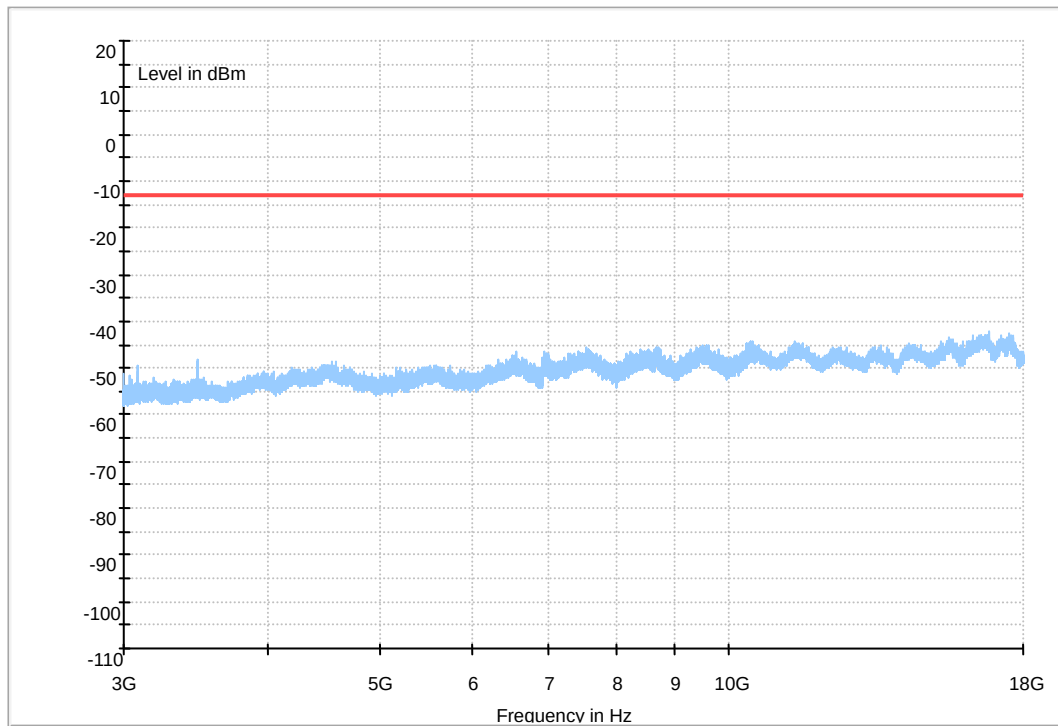
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



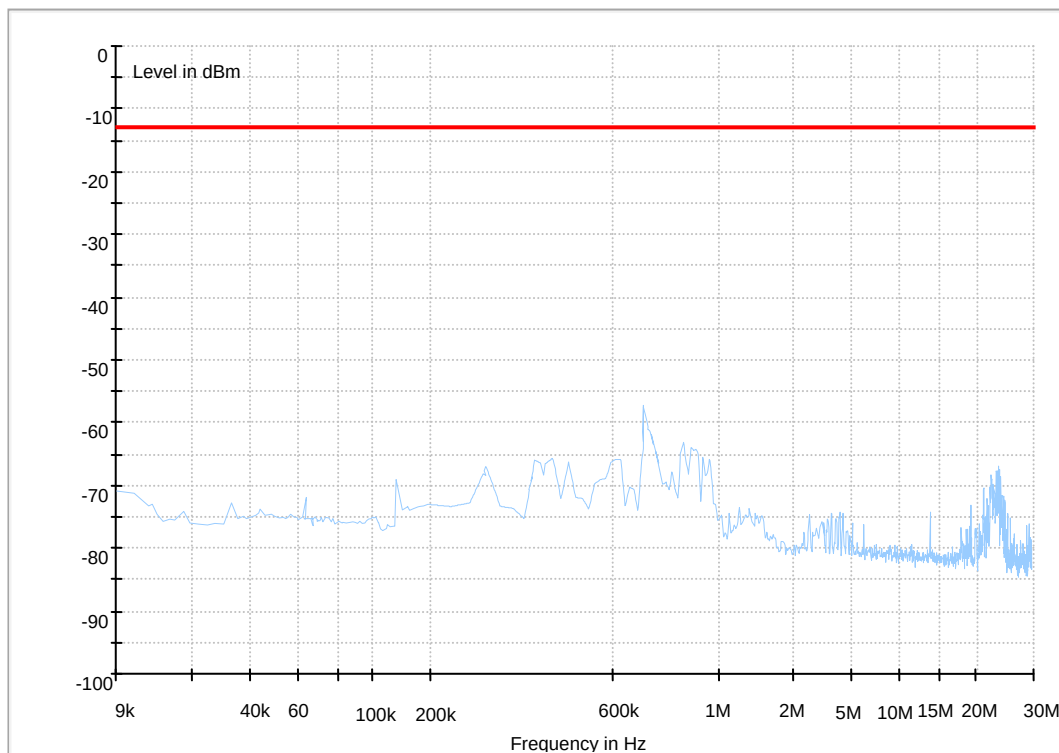
Traffic Mode (3GHz-18GHz)



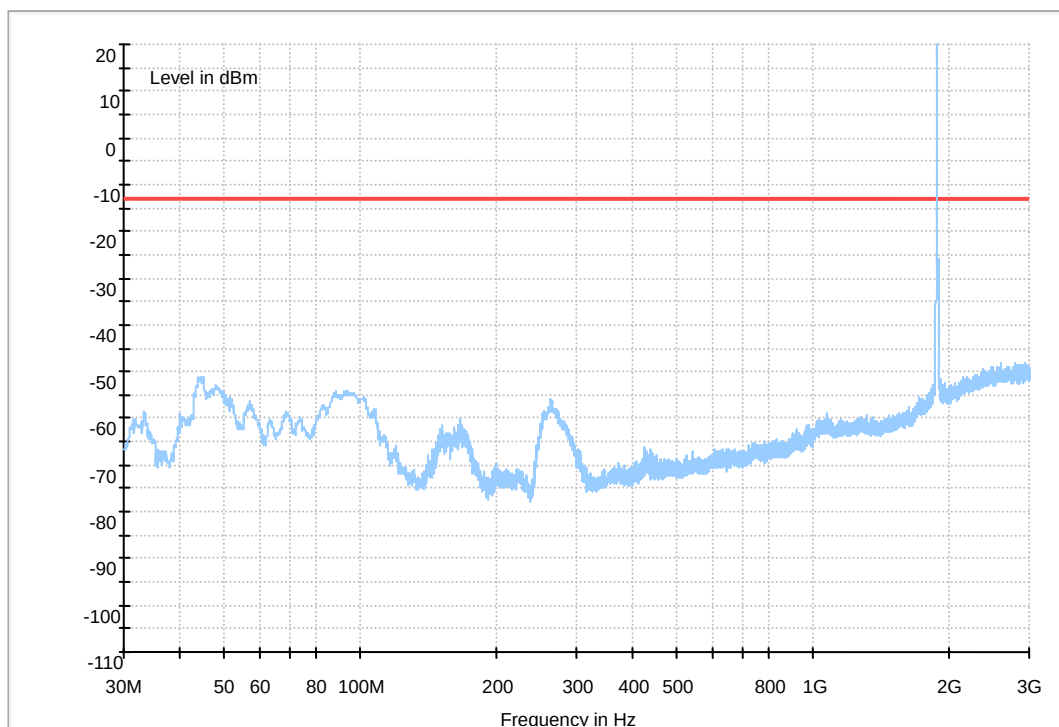
5.2.3 Test Band=WCDMA1900

5.2.2.1 Test mode=UMTS/TM1

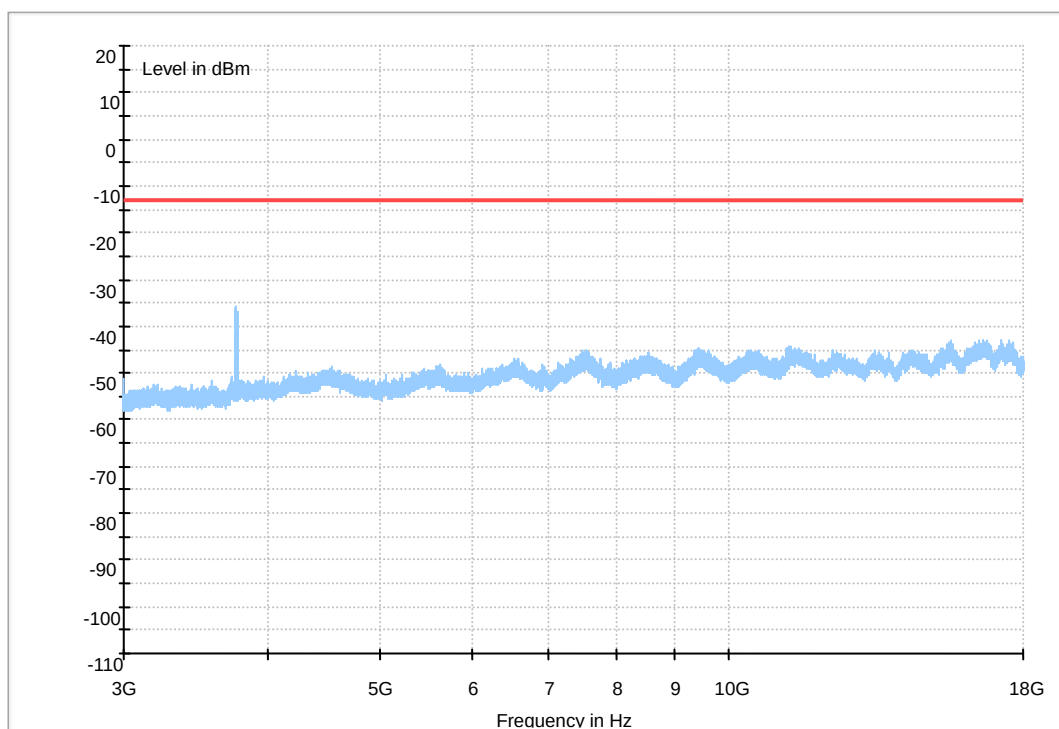
Traffic Mode (9kHz-30MHz)



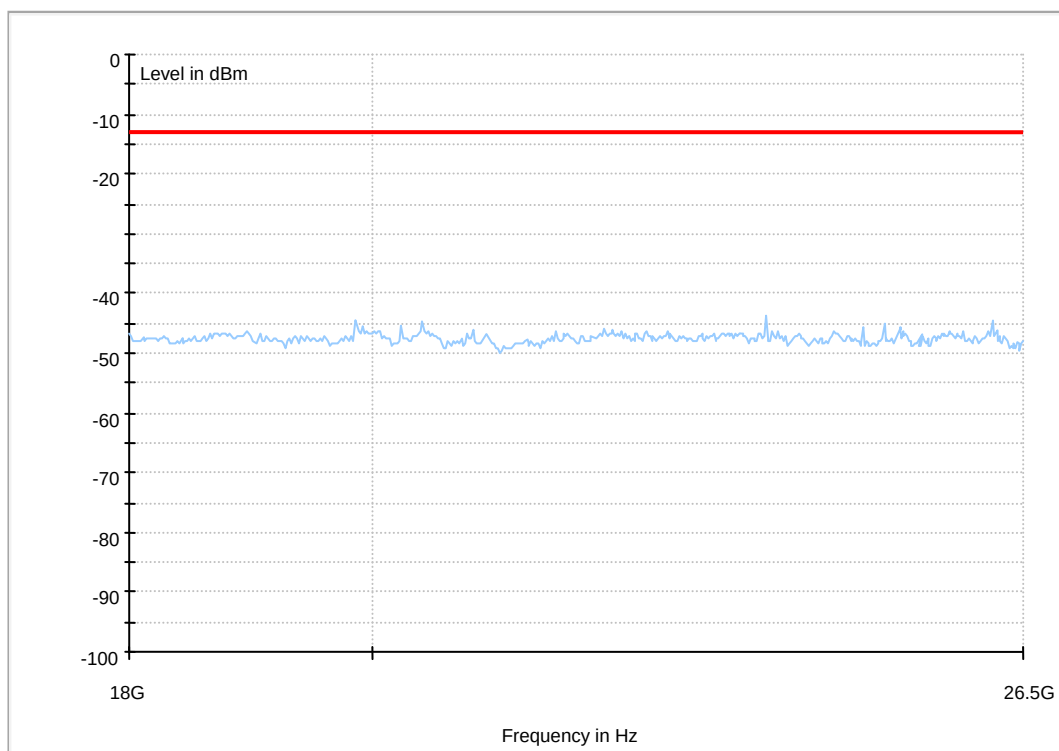
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

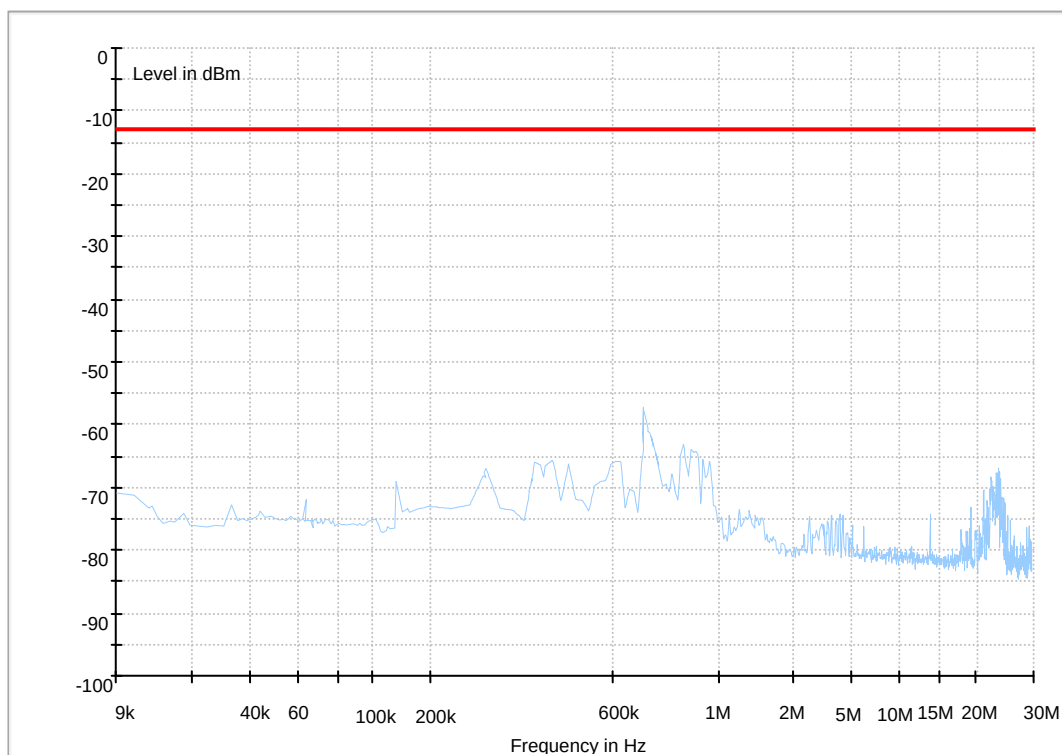


Traffic Mode (18GHz-26.5GHz)

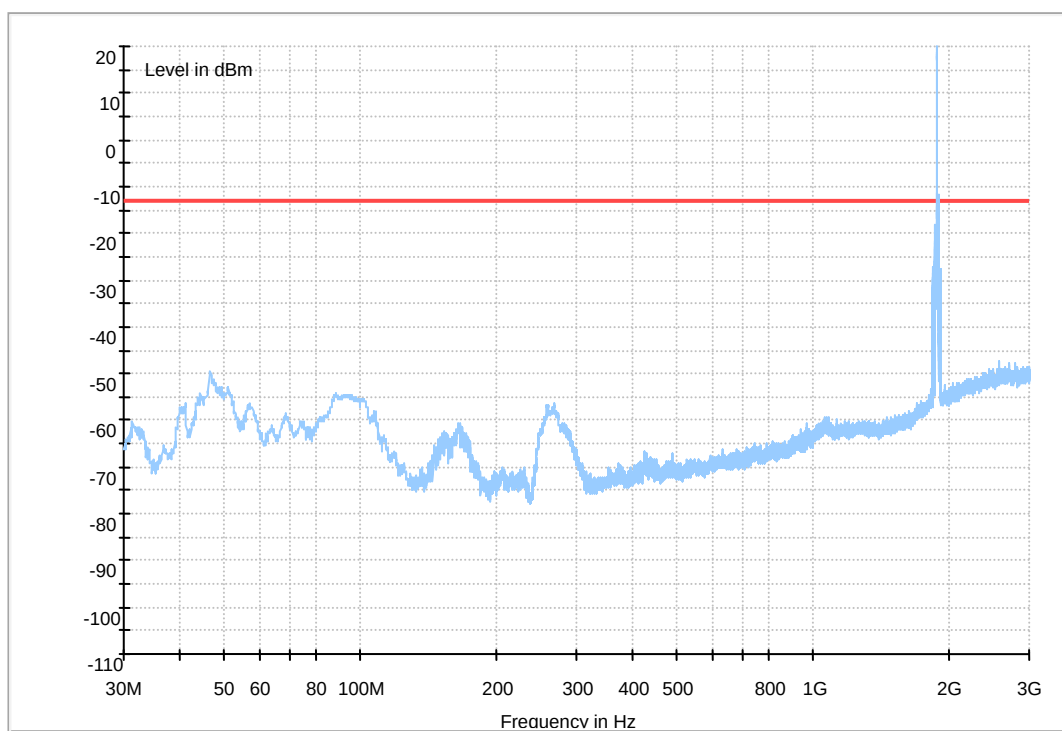


5.2.2.2 Test mode=UMTS/TM2

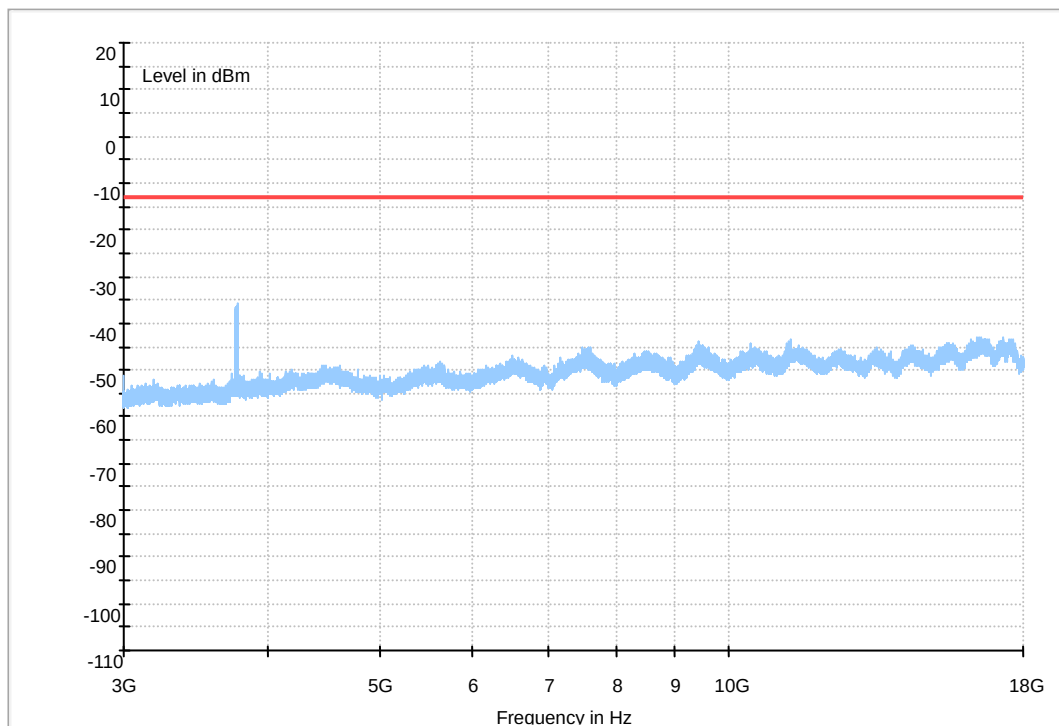
Traffic Mode (9kHz-30MHz)



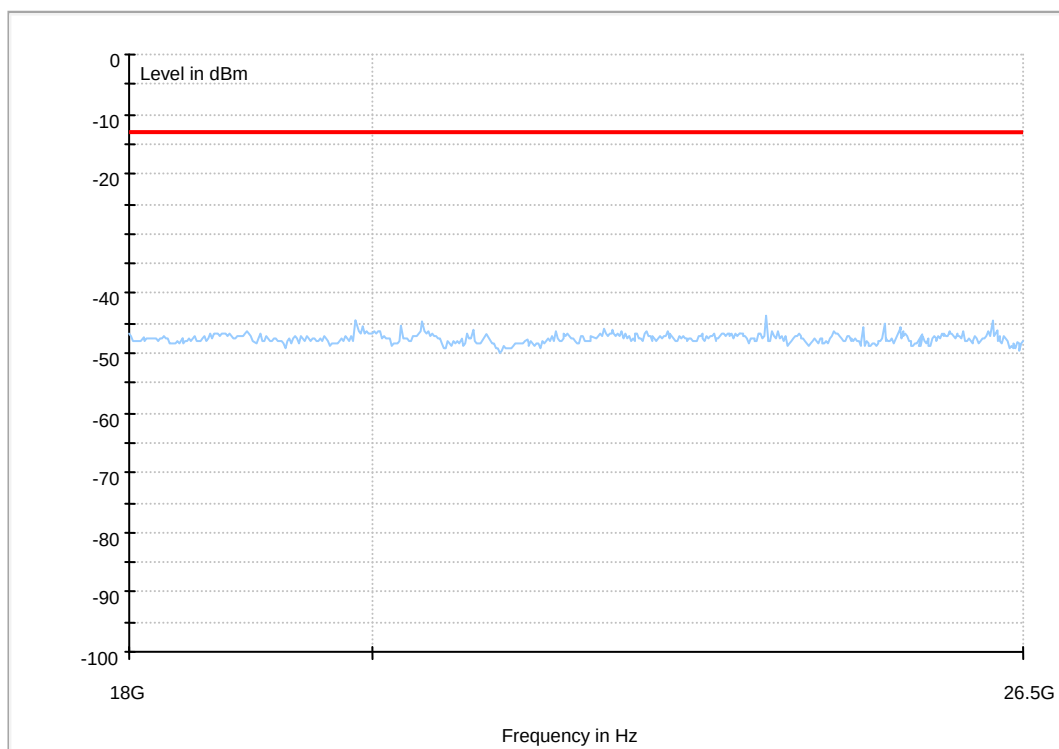
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

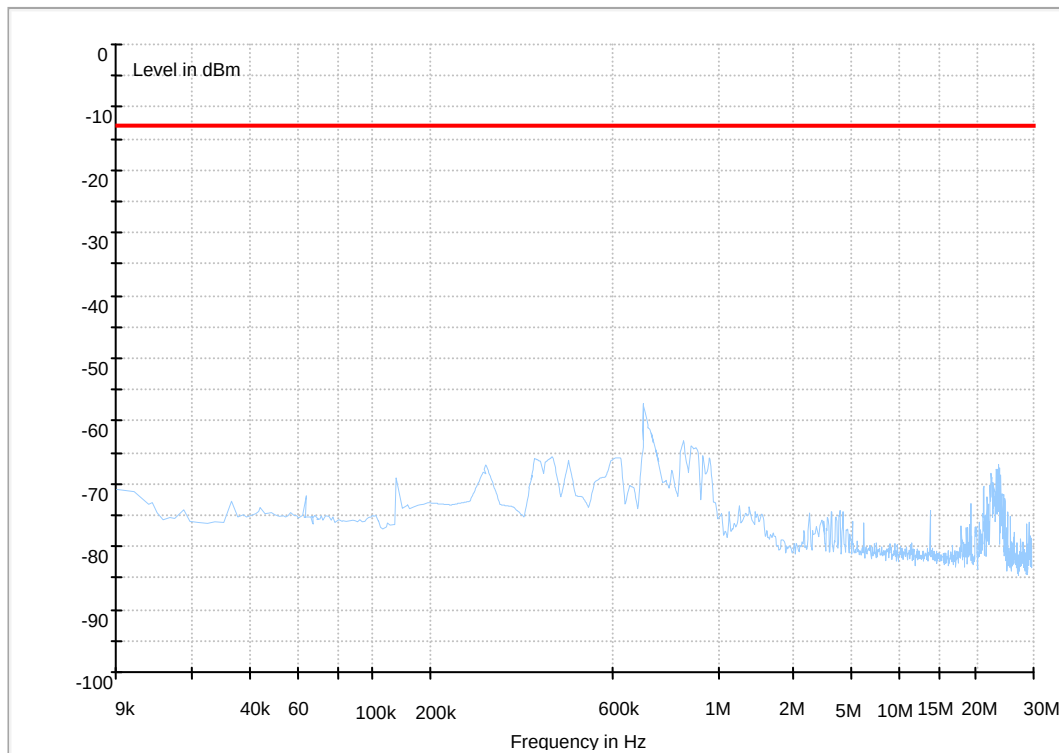


Traffic Mode (18GHz-26.5GHz)

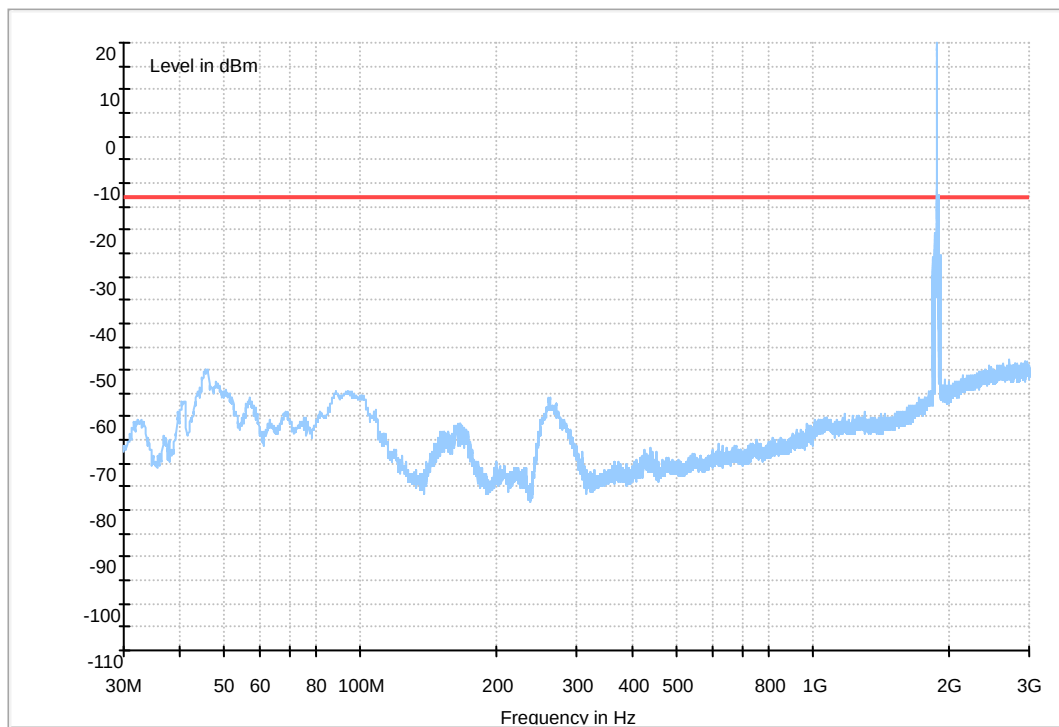


5.2.3.3 Test mode=UMTS/TM3

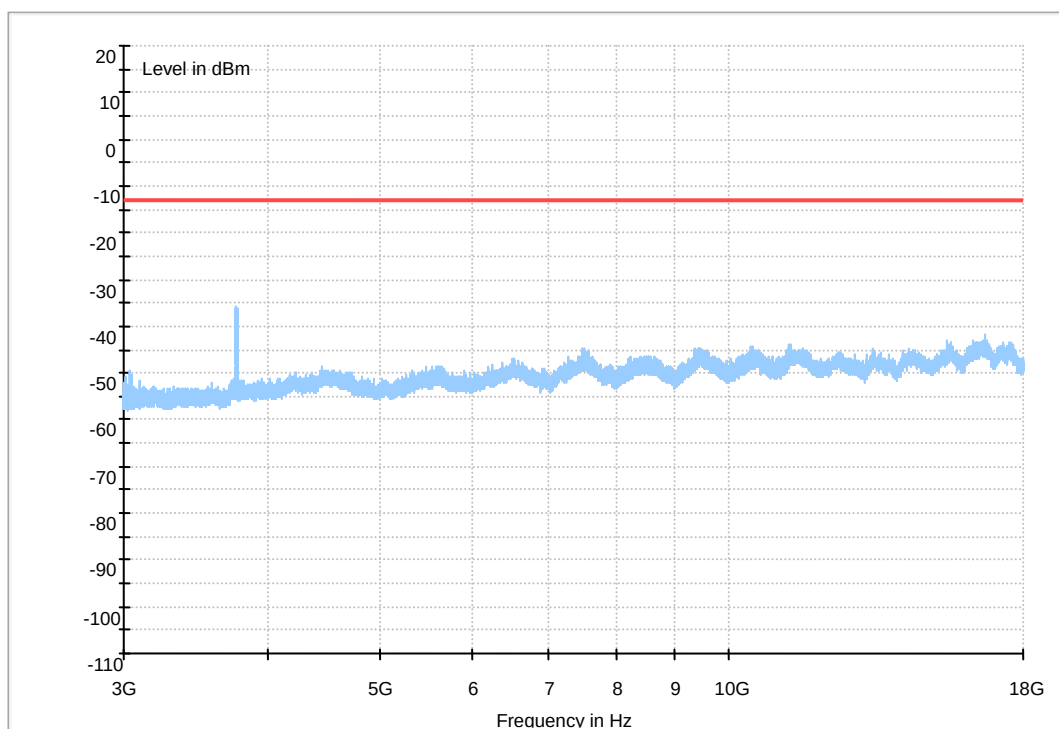
Traffic Mode (9kHz-30MHz)



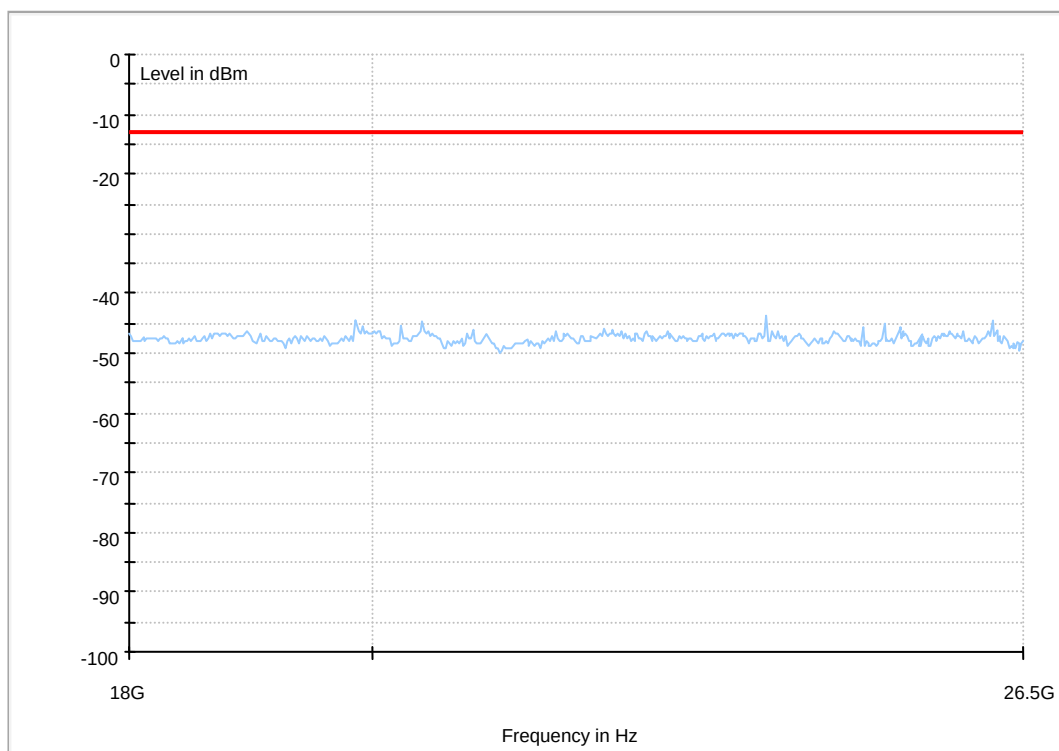
Traffic Mode (30MHz-3GHz)



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	-22.15	-0.02687	±2.5	PASS
				VN	-25.83	-0.03134	±2.5	PASS
				VH	-30.67	-0.03721	±2.5	PASS
		MCH	TN	VL	-12.46	-0.01489	±2.5	PASS
				VN	-20.79	-0.02484	±2.5	PASS
				VH	-19.89	-0.02376	±2.5	PASS
		HCH	TN	VL	-20.28	-0.02389	±2.5	PASS
				VN	-16.72	-0.0197	±2.5	PASS
				VH	-18.08	-0.0213	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-19.27	-0.02338	±2.5	PASS
				VN	-18.31	-0.02222	±2.5	PASS
				VH	-13.85	-0.0168	±2.5	PASS
		MCH	TN	VL	-15.85	-0.01894	±2.5	PASS
				VN	-19.05	-0.02276	±2.5	PASS
				VH	-13.69	-0.01636	±2.5	PASS
		HCH	TN	VL	-14.43	-0.017	±2.5	PASS
				VN	-13.01	-0.01533	±2.5	PASS
				VH	-10.40	-0.01225	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-56.56	-0.03057	±2.5	PASS
				VN	-45.98	-0.02485	±2.5	PASS
				VH	-63.47	-0.0343	±2.5	PASS
		MCH	TN	VL	-49.72	-0.02645	±2.5	PASS
				VN	-56.21	-0.03043	±2.5	PASS
				VH	-61.73	-0.03284	±2.5	PASS
		HCH	TN	VL	-62.38	-0.03266	±2.5	PASS
				VN	-63.41	-0.0332	±2.5	PASS
				VH	-55.18	-0.02942	±2.5	PASS
	GSM/TM2	LCH	TN	VL	-49.82	-0.02693	±2.5	PASS
				VN	-49.11	-0.02654	±2.5	PASS
				VH	-43.23	-0.02391	±2.5	PASS
		MCH	TN	VL	-34.45	-0.01832	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				VN	-33.26	-0.01822	±2.5	PASS
				VH	-42.17	-0.02296	±2.5	PASS
		HCH	TN	VL	-38.52	-0.02017	±2.5	PASS
				VN	-47.01	-0.02462	±2.5	PASS
				VH	-37.10	-0.01995	±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	-32.13	-0.0402	±2.5	PASS
				-20	-30.15	-0.03658	±2.5	PASS
				-10	-28.35	-0.0344	±2.5	PASS
				0	-32.16	-0.03902	±2.5	PASS
				10	-33.22	-0.04152	±2.5	PASS
				20	-27.44	-0.03329	±2.5	PASS
				30	-23.44	-0.02844	±2.5	PASS
				40	-23.89	-0.02899	±2.5	PASS
				50	-22.47	-0.02726	±2.5	PASS
		MCH	VN	-30	8.98	0.01073	±2.5	PASS
				-20	-28.48	-0.03403	±2.5	PASS
				-10	-26.93	-0.03217	±2.5	PASS
				0	-24.99	-0.02986	±2.5	PASS
				10	-22.99	-0.02747	±2.5	PASS
				20	-27.77	-0.03318	±2.5	PASS
				30	-24.09	-0.02878	±2.5	PASS
				40	-24.09	-0.02878	±2.5	PASS
				50	-23.50	-0.02808	±2.5	PASS
		HCH	VN	-30	-24.09	-0.02838	±2.5	PASS
				-20	-20.28	-0.02389	±2.5	PASS
				-10	-22.08	-0.02601	±2.5	PASS
				0	-20.66	-0.02434	±2.5	PASS
				10	-19.24	-0.02267	±2.5	PASS
				20	-23.37	-0.02753	±2.5	PASS
				30	-16.92	-0.01993	±2.5	PASS
				40	-23.89	-0.02815	±2.5	PASS
				50	-20.86	-0.02458	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-17.05	-0.02069	±2.5	PASS
				-20	-16.40	-0.0199	±2.5	PASS
				-10	-22.15	-0.02809	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				0	-17.53	-0.02127	±2.5	PASS
				10	-22.96	-0.02786	±2.5	PASS
				20	-19.24	-0.02334	±2.5	PASS
				30	-23.25	-0.02942	±2.5	PASS
				40	-19.02	-0.02308	±2.5	PASS
				50	-15.34	-0.01861	±2.5	PASS
		MCH	VN	-30	-15.24	-0.0194	±2.5	PASS
				-20	-14.33	-0.01712	±2.5	PASS
				-10	-16.05	-0.01918	±2.5	PASS
				0	-16.37	-0.01956	±2.5	PASS
				10	-16.72	-0.01998	±2.5	PASS
				20	-17.37	-0.02075	±2.5	PASS
				30	-12.59	-0.01504	±2.5	PASS
				40	-12.27	-0.01466	±2.5	PASS
				50	-15.18	-0.01933	±2.5	PASS
		HCH	VN	-30	-11.33	-0.01335	±2.5	PASS
				-20	-17.40	-0.0205	±2.5	PASS
				-10	-11.20	-0.0132	±2.5	PASS
				0	-16.72	-0.0197	±2.5	PASS
				10	-14.14	-0.01784	±2.5	PASS
				20	-11.11	-0.01309	±2.5	PASS
				30	-19.86	-0.0234	±2.5	PASS
				40	-12.95	-0.01526	±2.5	PASS
				50	-14.14	-0.01784	±2.5	PASS
GSM190 0	GSM/TM1	LCH	VN	-30	-68.58	-0.03707	±2.5	PASS
				-20	-51.79	-0.02799	±2.5	PASS
				-10	-57.11	-0.03141	±2.5	PASS
				0	-66.51	-0.03595	±2.5	PASS
				10	-71.67	-0.03874	±2.5	PASS
				20	-54.30	-0.02935	±2.5	PASS
				30	-58.76	-0.03176	±2.5	PASS
				40	-65.80	-0.03556	±2.5	PASS
				50	-54.05	-0.02921	±2.5	PASS
		MCH	VN	-30	-54.05	-0.02875	±2.5	PASS
				-20	-62.22	-0.03363	±2.5	PASS
				-10	-57.86	-0.03078	±2.5	PASS
				0	-61.54	-0.03273	±2.5	PASS
				10	-53.98	-0.02871	±2.5	PASS
				20	-65.35	-0.03476	±2.5	PASS
				30	-64.28	-0.03472	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				40	-59.47	-0.03163	±2.5	PASS
				50	-50.30	-0.02676	±2.5	PASS
		HCH	VN	-30	-63.34	-0.03317	±2.5	PASS
				-20	-52.63	-0.02756	±2.5	PASS
				-10	-57.73	-0.03023	±2.5	PASS
				0	-53.85	-0.0282	±2.5	PASS
				10	-54.50	-0.02854	±2.5	PASS
				20	-49.91	-0.02613	±2.5	PASS
				30	-54.30	-0.02843	±2.5	PASS
				40	-60.57	-0.03172	±2.5	PASS
				50	-53.72	-0.02813	±2.5	PASS
	GSM/TM2	LCH	VN	-30	-42.75	-0.02311	±2.5	PASS
				-20	-47.52	-0.02568	±2.5	PASS
				-10	-41.78	-0.02258	±2.5	PASS
				0	-53.34	-0.02883	±2.5	PASS
				10	-37.03	-0.02001	±2.5	PASS
				20	-46.88	-0.02534	±2.5	PASS
				30	-47.46	-0.02565	±2.5	PASS
				40	-55.02	-0.02974	±2.5	PASS
				50	-36.87	-0.01993	±2.5	PASS
		MCH	VN	-30	-41.39	-0.02202	±2.5	PASS
				-20	-37.61	-0.02001	±2.5	PASS
				-10	-43.36	-0.02306	±2.5	PASS
				0	-40.16	-0.02136	±2.5	PASS
				10	-33.87	-0.01802	±2.5	PASS
				20	-29.80	-0.01585	±2.5	PASS
				30	-36.06	-0.01918	±2.5	PASS
				40	-37.65	-0.02003	±2.5	PASS
				50	-45.62	-0.02427	±2.5	PASS
		HCH	VN	-30	-41.16	-0.02155	±2.5	PASS
				-20	-40.16	-0.02103	±2.5	PASS
				-10	-34.84	-0.01824	±2.5	PASS
				0	-43.62	-0.02284	±2.5	PASS
				10	-26.12	-0.0142	±2.5	PASS
				20	-44.72	-0.02342	±2.5	PASS
				30	-39.52	-0.02069	±2.5	PASS
				40	-33.26	-0.01794	±2.5	PASS
				50	-26.70	-0.01398	±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	1.85	0.00224	±2.5	PASS
				VN	-7.46	-0.00903	±2.5	PASS
				VH	0.67	0.00081	±2.5	PASS
		MCH	TN	VL	4.85	0.0058	±2.5	PASS
				VN	1.92	0.0023	±2.5	PASS
				VH	0.52	0.00062	±2.5	PASS
		HCH	TN	VL	-4.28	-0.00624	±2.5	PASS
				VN	0.15	0.00018	±2.5	PASS
				VH	0.84	0.00099	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-2.79	-0.00151	±2.5	PASS
				VN	4.14	0.00277	±2.5	PASS
				VH	-12.20	-0.00713	±2.5	PASS
		MCH	TN	VL	-2.22	-0.00171	±2.5	PASS
				VN	-1.65	-0.00088	±2.5	PASS
				VH	3.81	0.00203	±2.5	PASS
		HCH	TN	VL	6.84	0.00359	±2.5	PASS
				VN	13.38	0.00701	±2.5	PASS
				VH	15.41	0.00808	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	-3.12	-0.00241	±2.5	PASS
				VN	-0.81	-0.00047	±2.5	PASS
				VH	-8.59	-0.00502	±2.5	PASS
		MCH	TN	VL	-3.45	-0.00199	±2.5	PASS
				VN	-0.20	-0.00012	±2.5	PASS
				VH	-6.88	-0.00397	±2.5	PASS
		HCH	TN	VL	-11.93	-0.00681	±2.5	PASS
				VN	-7.78	-0.00444	±2.5	PASS
				VH	-1.16	-0.00066	±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	1.54	0.00186	±2.5	PASS
				-20	-1.13	-0.00137	±2.5	PASS
				-10	-4.59	-0.00555	±2.5	PASS
				0	0.35	0.00042	±2.5	PASS
				10	-3.60	-0.00436	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				20	5.71	0.00691	±2.5	PASS
				30	-4.67	-0.00565	±2.5	PASS
				40	-5.72	-0.00692	±2.5	PASS
				50	-2.88	-0.00348	±2.5	PASS
		MCH	VN	-30	-10.36	-0.01239	±2.5	PASS
				-20	0.52	0.00062	±2.5	PASS
				-10	-2.15	-0.00257	±2.5	PASS
				0	-4.62	-0.00552	±2.5	PASS
				10	-10.44	-0.01248	±2.5	PASS
				20	-9.66	-0.01155	±2.5	PASS
				30	0.81	0.00097	±2.5	PASS
				40	-6.71	-0.00802	±2.5	PASS
				50	-2.23	-0.00267	±2.5	PASS
		HCH	VN	-30	-5.77	-0.00682	±2.5	PASS
				-20	-3.07	-0.00363	±2.5	PASS
				-10	-8.04	-0.0095	±2.5	PASS
				0	-4.07	-0.00481	±2.5	PASS
				10	-0.20	-0.00024	±2.5	PASS
				20	2.56	0.00302	±2.5	PASS
				30	-1.11	-0.00131	±2.5	PASS
				40	-5.48	-0.00647	±2.5	PASS
				50	-2.23	-0.00263	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	-5.34	-0.00288	±2.5	PASS
				-20	3.15	0.00224	±2.5	PASS
				-10	4.93	0.00266	±2.5	PASS
				0	5.43	0.00293	±2.5	PASS
				10	-10.01	-0.0054	±2.5	PASS
				20	-0.21	-0.00011	±2.5	PASS
				30	0.31	0.00017	±2.5	PASS
				40	-7.57	-0.00409	±2.5	PASS
				50	-10.16	-0.00548	±2.5	PASS
		MCH	VN	-30	10.91	0.0058	±2.5	PASS
				-20	-9.98	-0.00531	±2.5	PASS
				-10	-10.51	-0.00559	±2.5	PASS
				0	5.57	0.00296	±2.5	PASS
				10	2.73	0.00145	±2.5	PASS
				20	7.74	0.00412	±2.5	PASS
				30	-4.16	-0.00274	±2.5	PASS
				40	-3.29	-0.00228	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				50	-3.42	-0.00182	±2.5	PASS
		HCH	VN	-30	-12.47	-0.00654	±2.5	PASS
				-20	-4.90	-0.00257	±2.5	PASS
				-10	-5.40	-0.00283	±2.5	PASS
				0	-15.49	-0.00812	±2.5	PASS
				10	-2.35	-0.00123	±2.5	PASS
				20	15.70	0.00823	±2.5	PASS
				30	-22.19	-0.01163	±2.5	PASS
				40	-2.21	-0.00116	±2.5	PASS
				50	2.21	0.00116	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	-4.76	-0.00278	±2.5	PASS
				-20	-1.14	-0.00067	±2.5	PASS
				-10	1.75	0.00102	±2.5	PASS
				0	-6.55	-0.00383	±2.5	PASS
				10	-9.84	-0.00575	±2.5	PASS
				20	-6.67	-0.0039	±2.5	PASS
				30	-9.20	-0.00537	±2.5	PASS
				40	9.60	0.00561	±2.5	PASS
				50	1.24	0.00072	±2.5	PASS
		MCH	VN	-30	-0.99	-0.00057	±2.5	PASS
				-20	-7.48	-0.00432	±2.5	PASS
				-10	-12.86	-0.00742	±2.5	PASS
				0	-4.64	-0.00268	±2.5	PASS
				10	-7.46	-0.00431	±2.5	PASS
				20	2.38	0.00137	±2.5	PASS
				30	-12.04	-0.00695	±2.5	PASS
				40	-1.31	-0.00076	±2.5	PASS
				50	-18.60	-0.01074	±2.5	PASS
		HCH	VN	-30	10.09	0.00576	±2.5	PASS
				-20	-8.70	-0.00496	±2.5	PASS
				-10	-10.77	-0.00615	±2.5	PASS
				0	-6.17	-0.00409	±2.5	PASS
				10	2.19	0.00182	±2.5	PASS
				20	-3.72	-0.00212	±2.5	PASS
				30	3.14	0.00236	±2.5	PASS
				40	-6.93	-0.00395	±2.5	PASS
				50	3.66	0.00209	±2.5	PASS

END