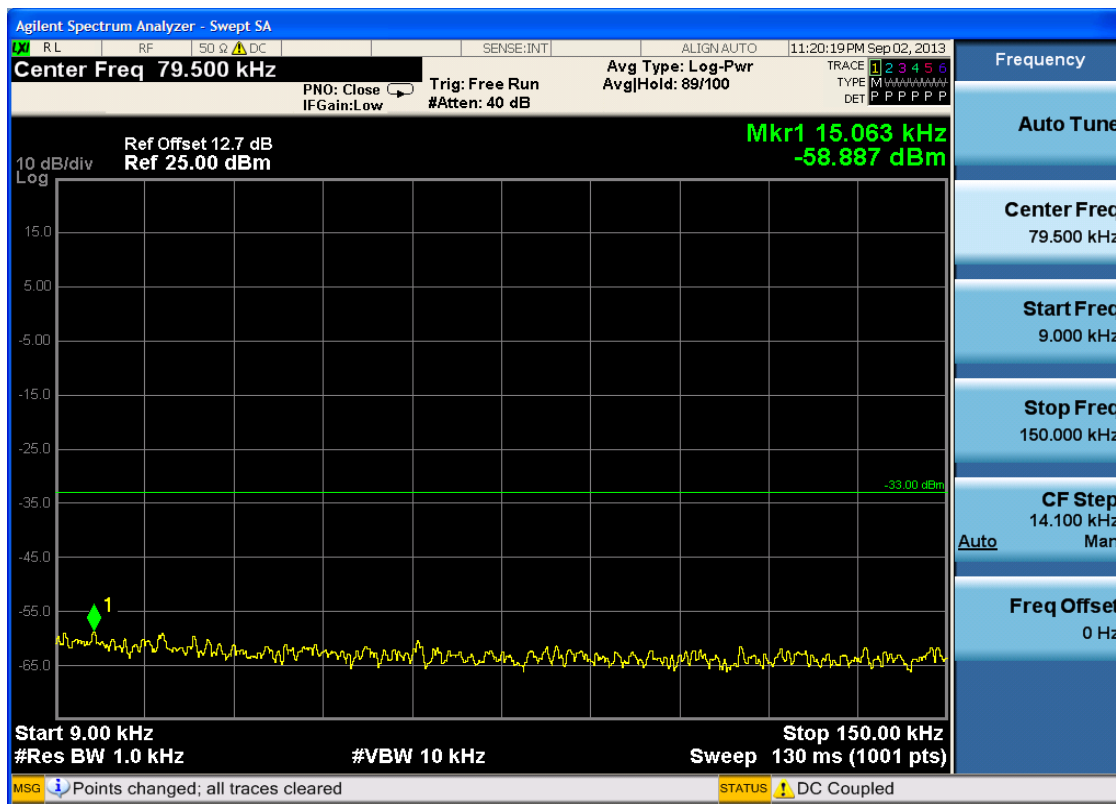
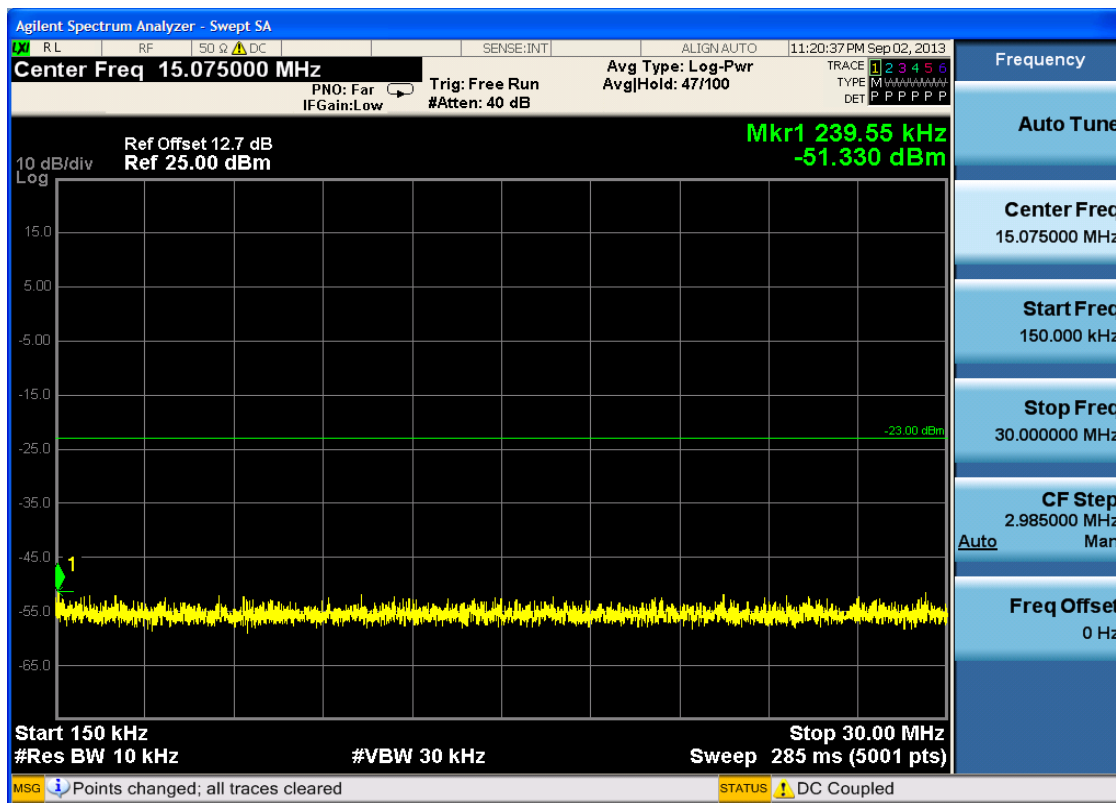
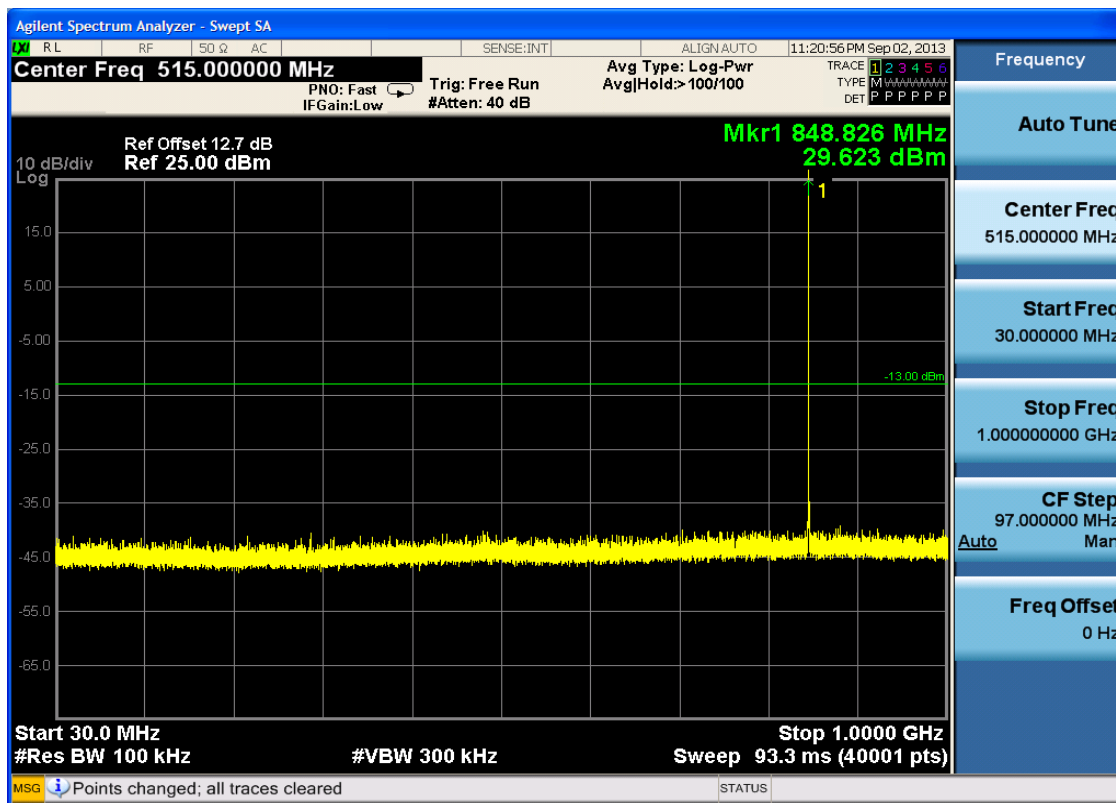


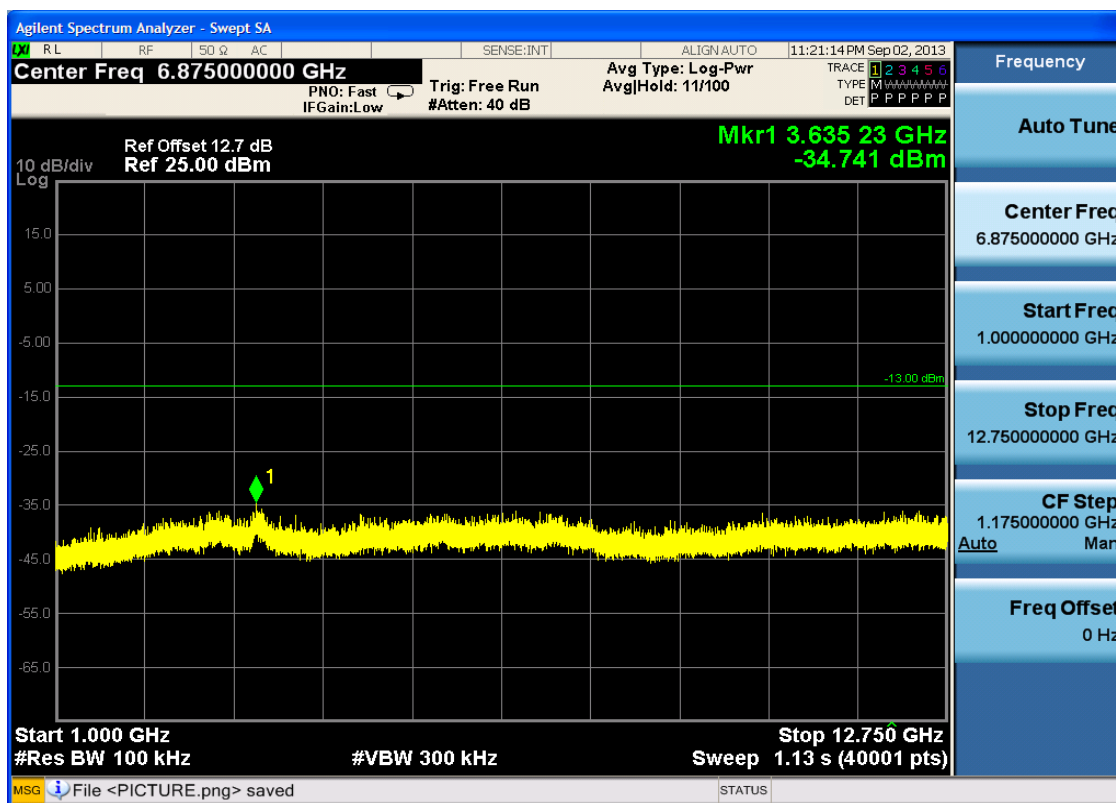


6.1.1.2.3 Test Channel = HCH





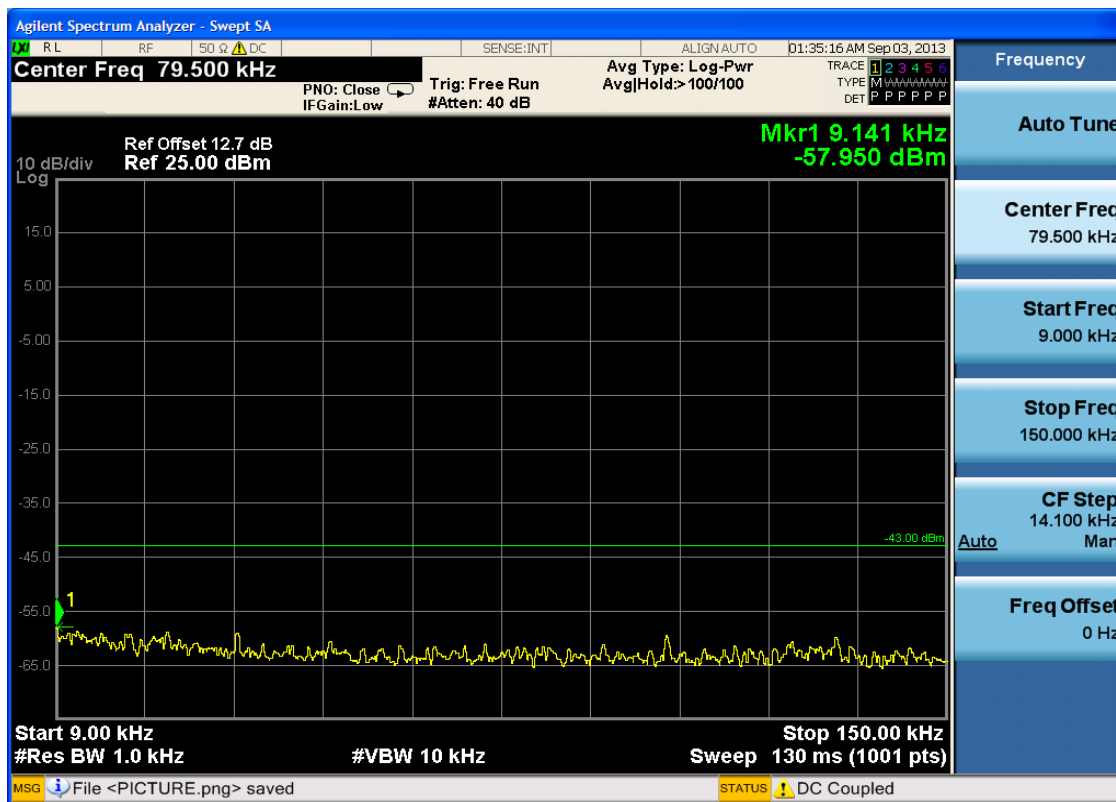


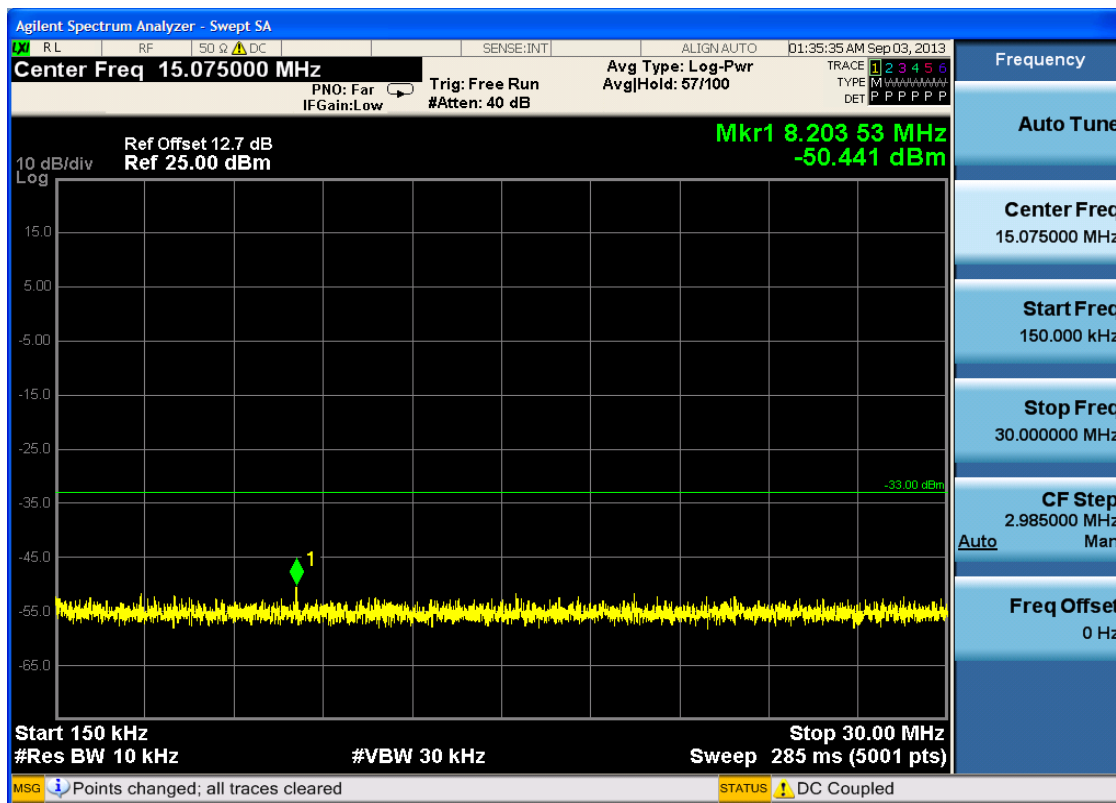


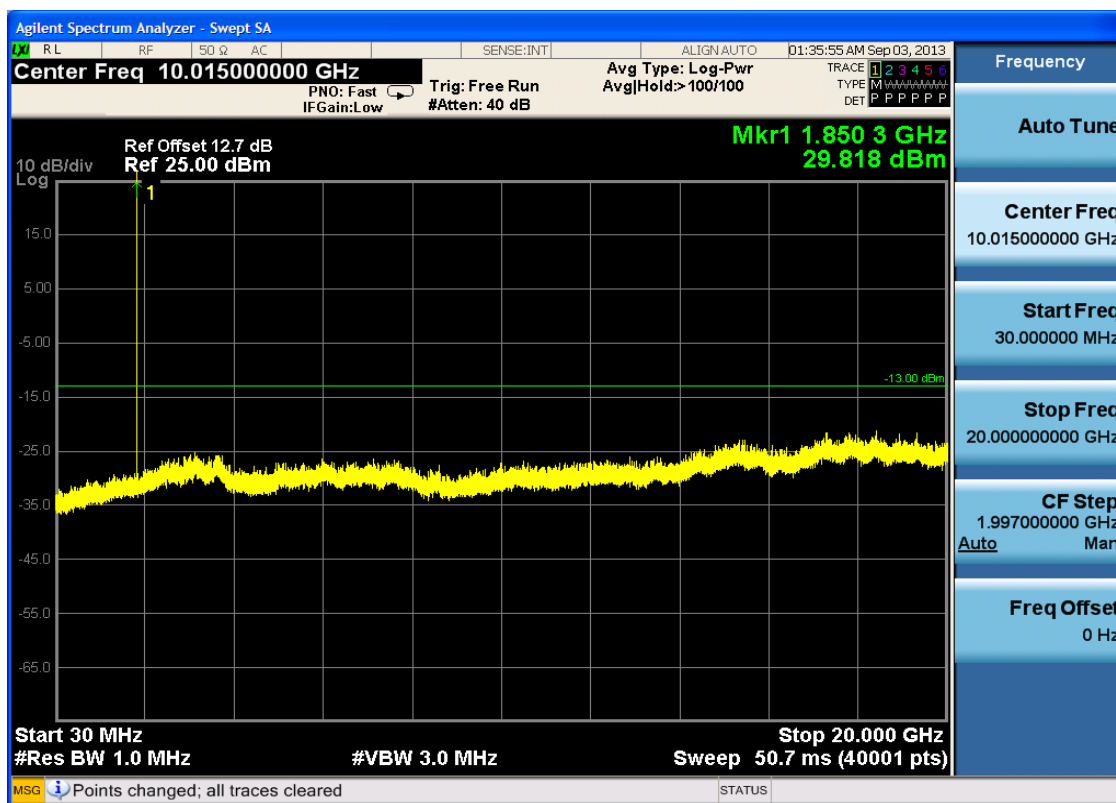
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

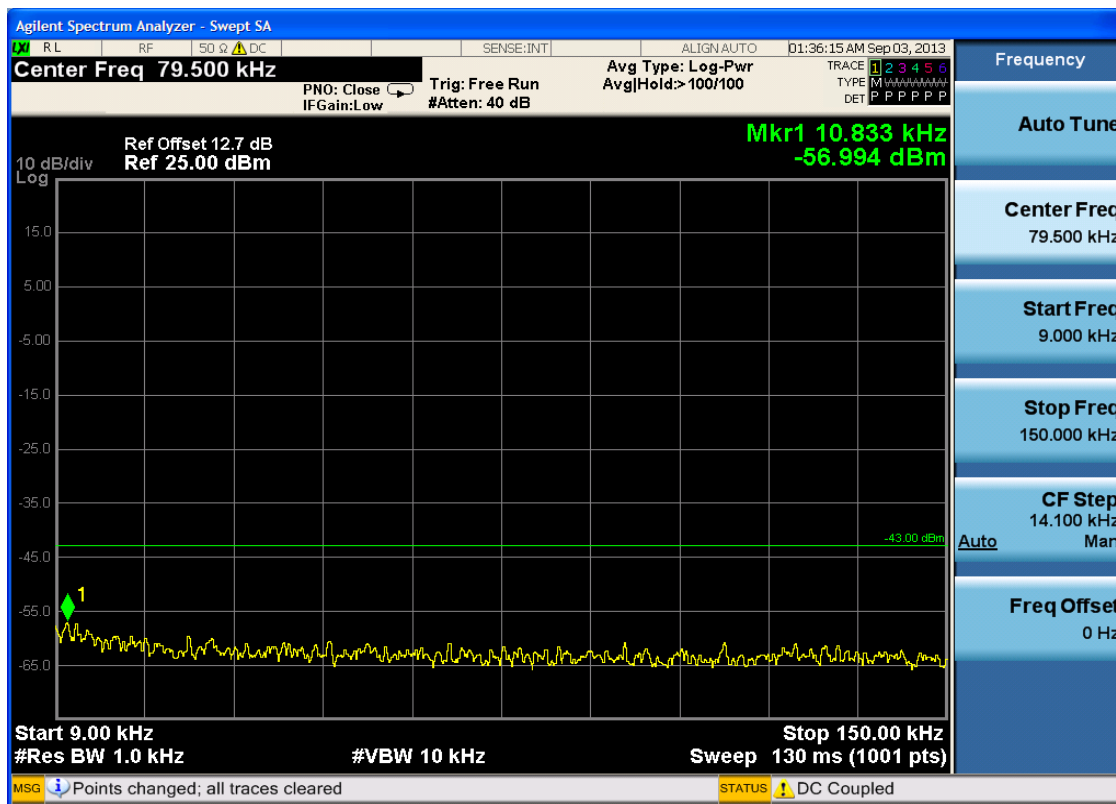
6.1.2.1.1 Test Channel = LCH

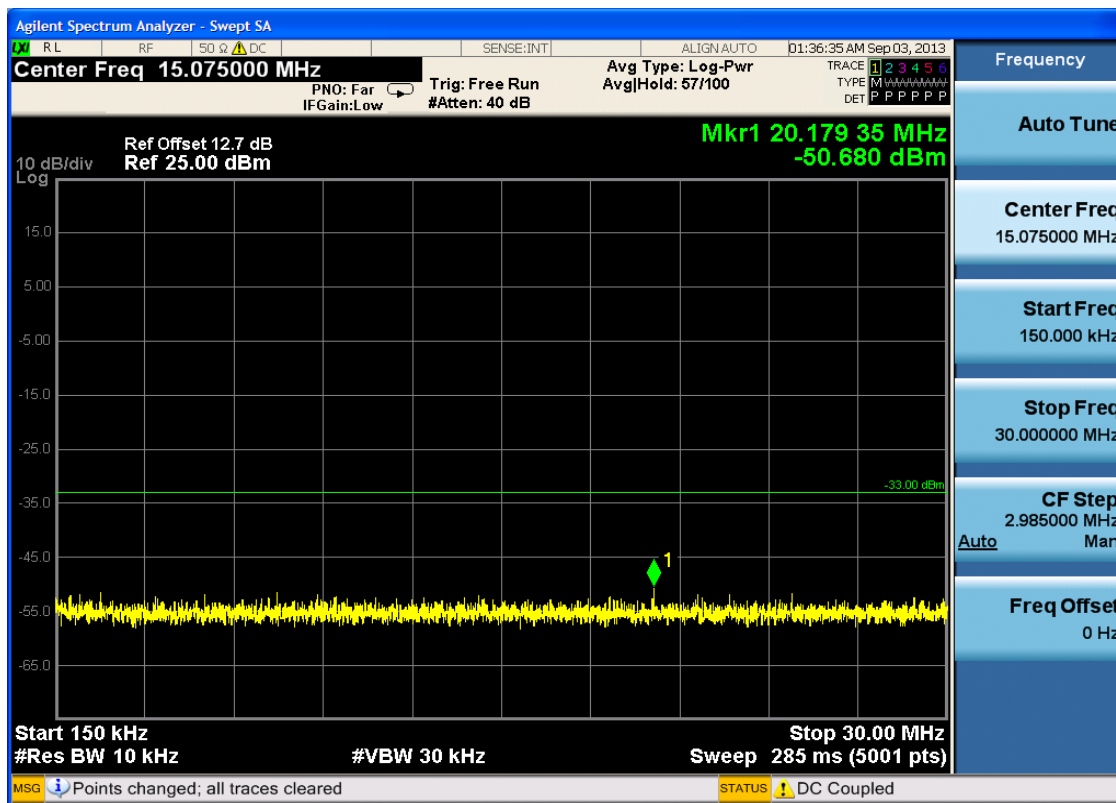


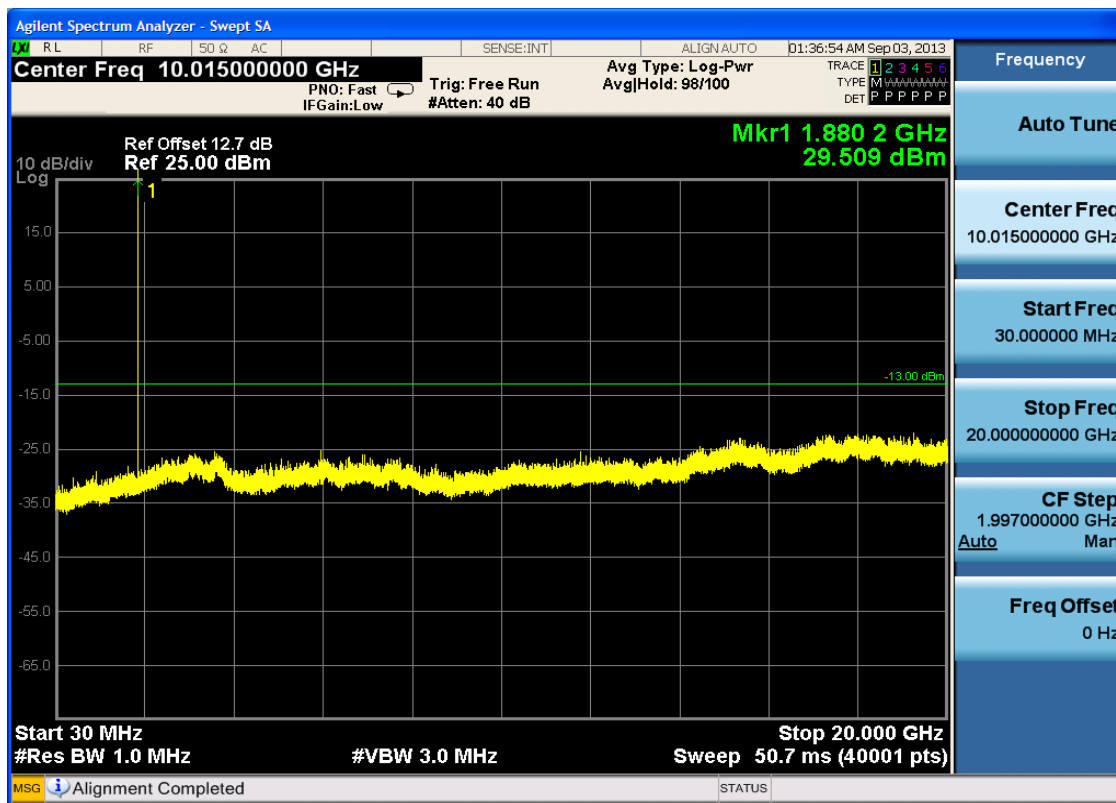




6.1.2.1.2 Test Channel = MCH

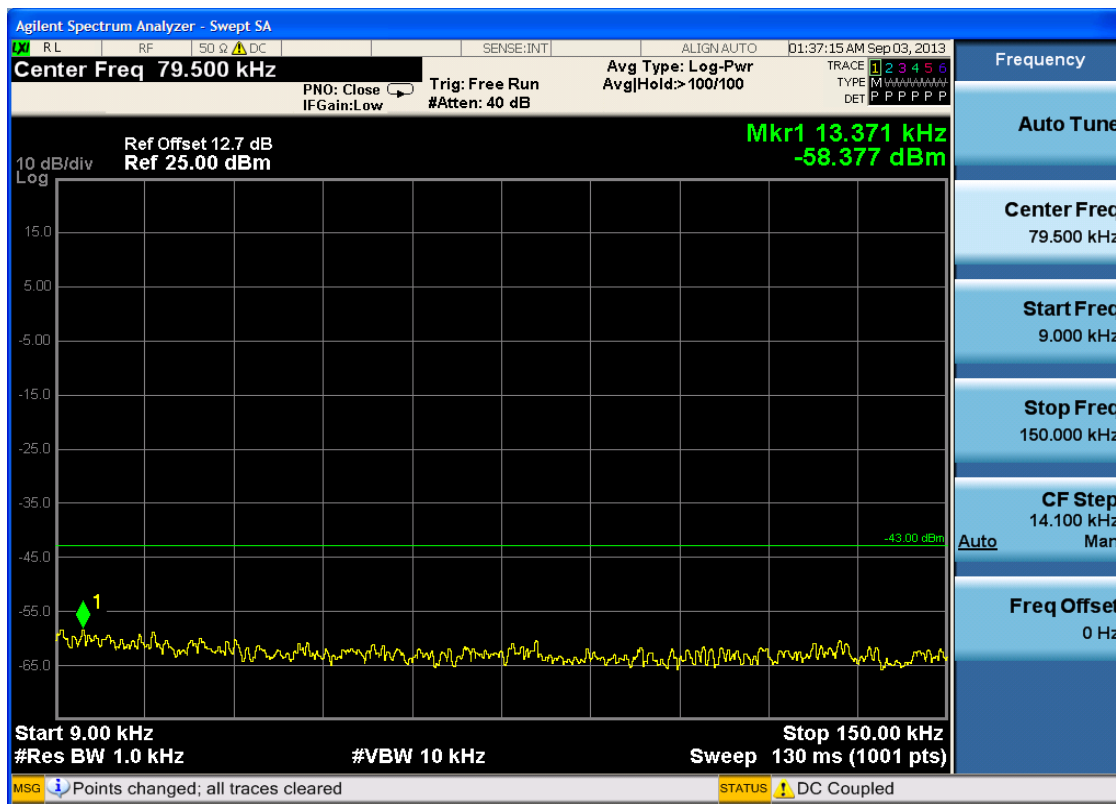


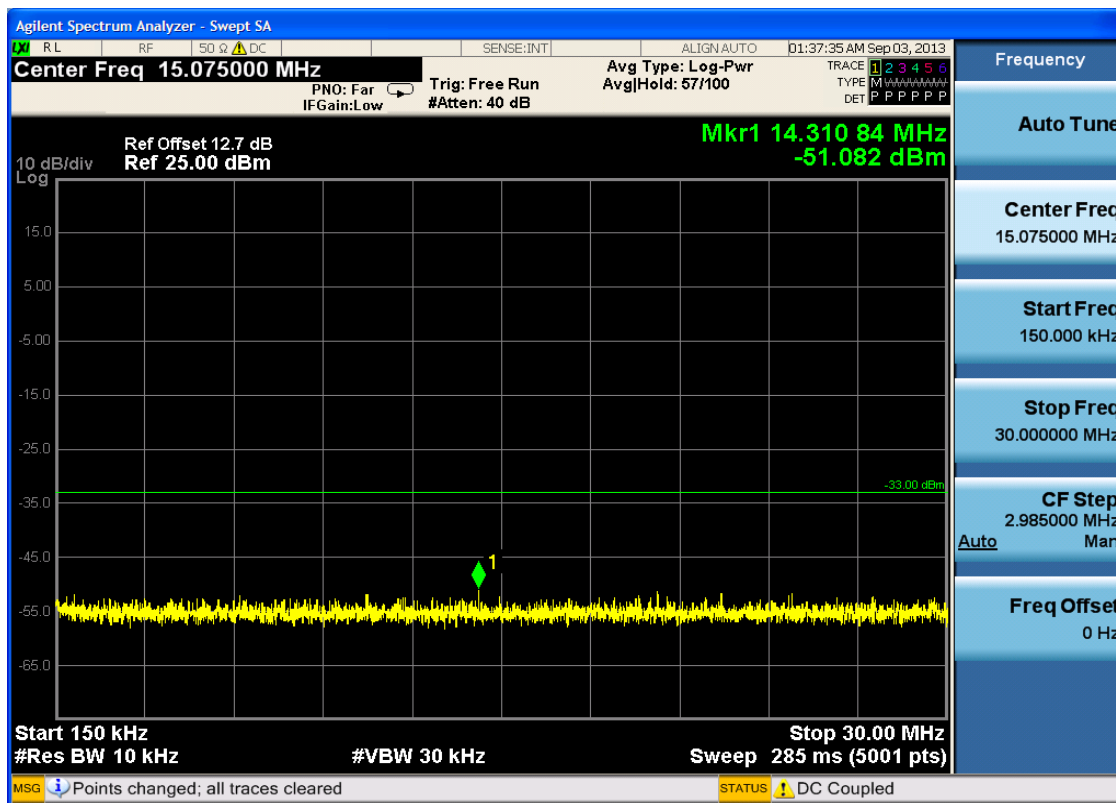


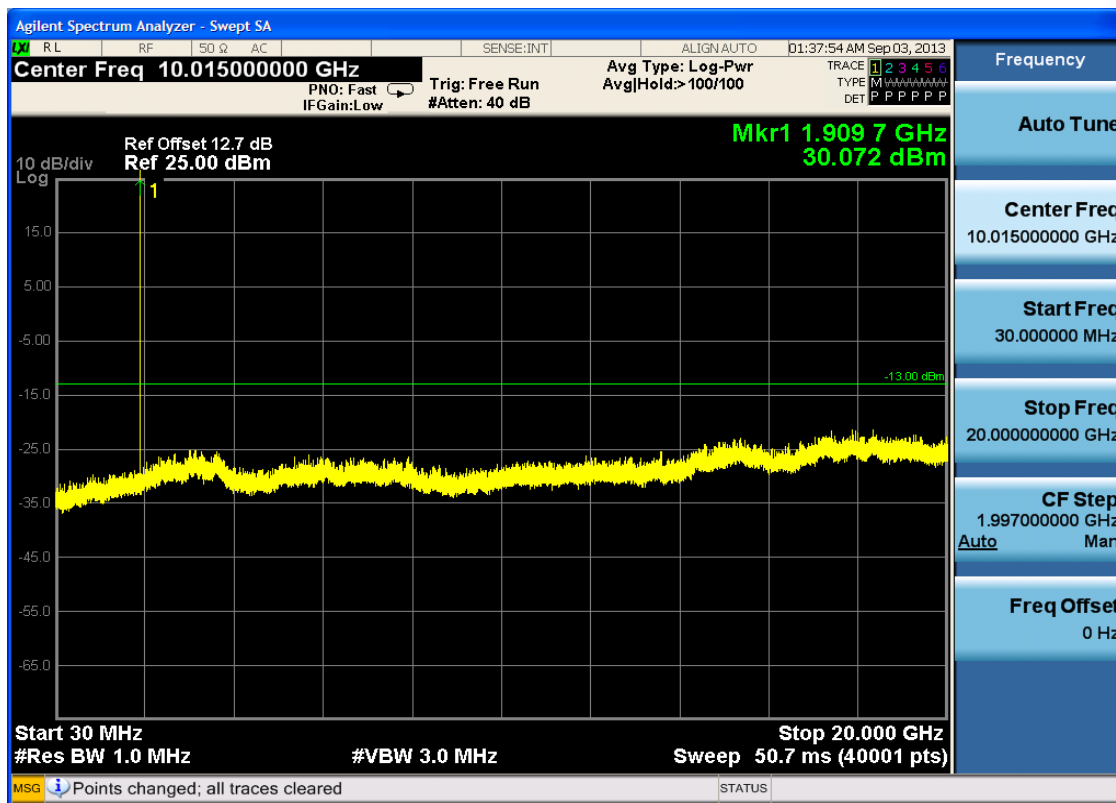




6.1.2.1.3 Test Channel = HCH

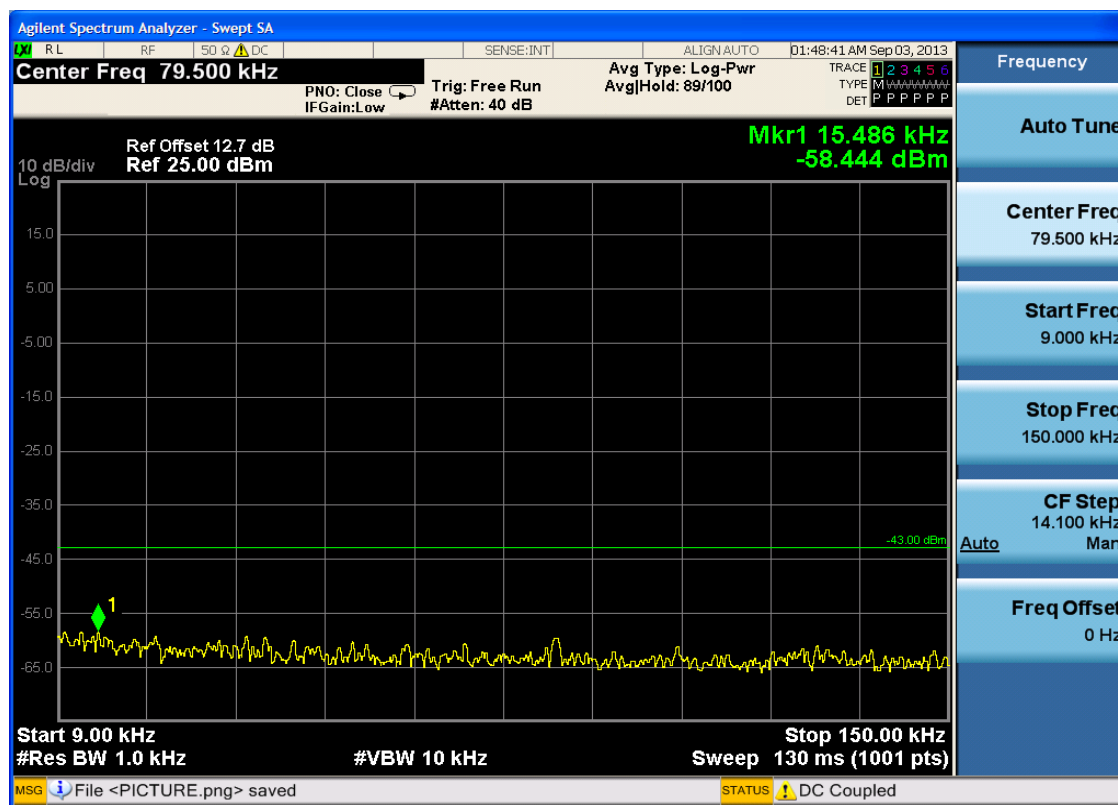


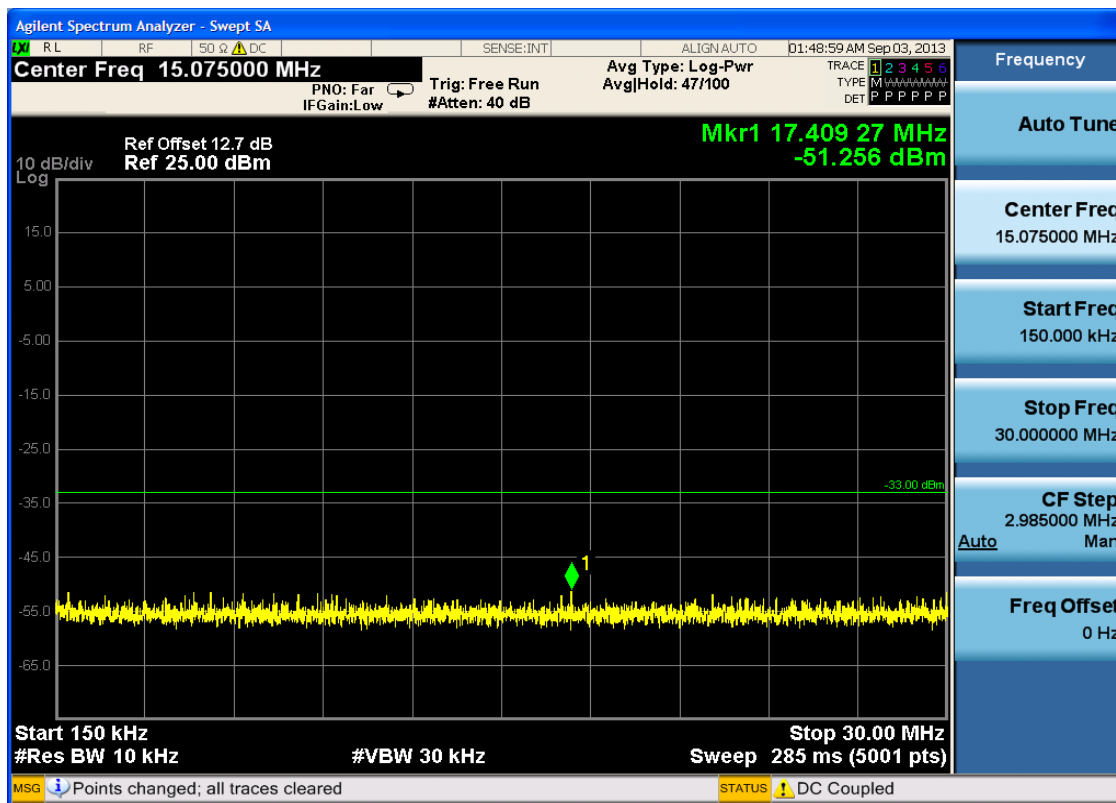


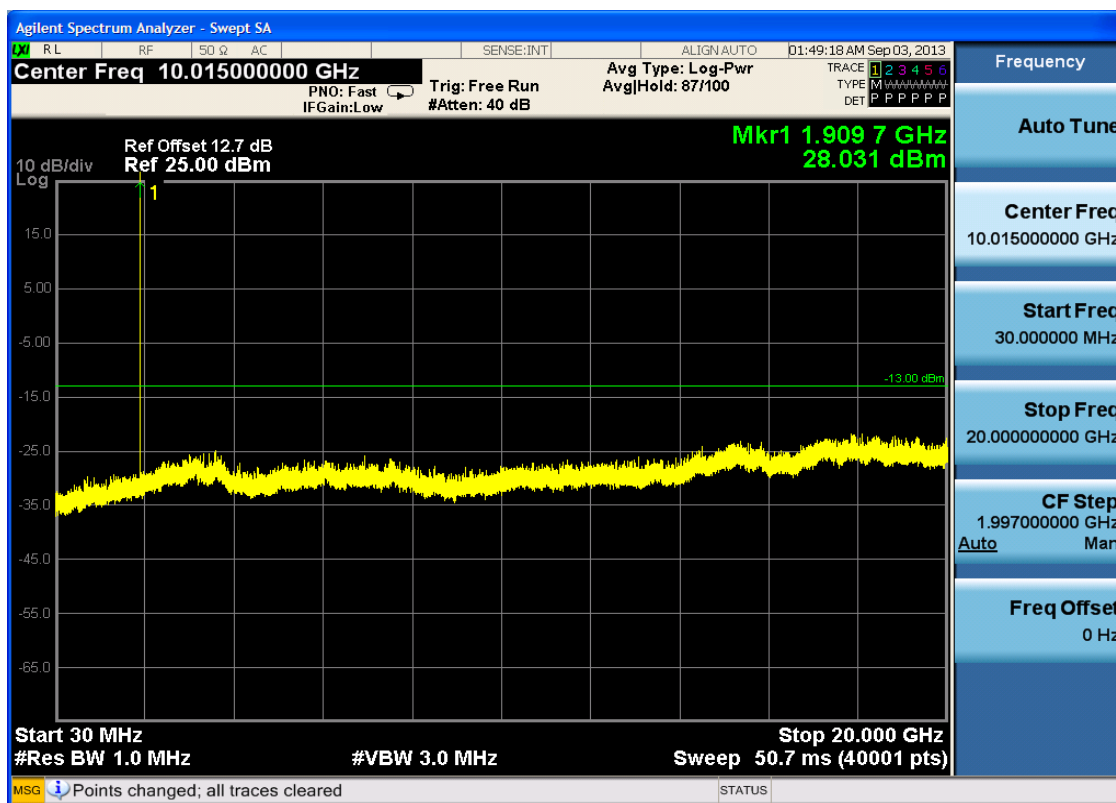


6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

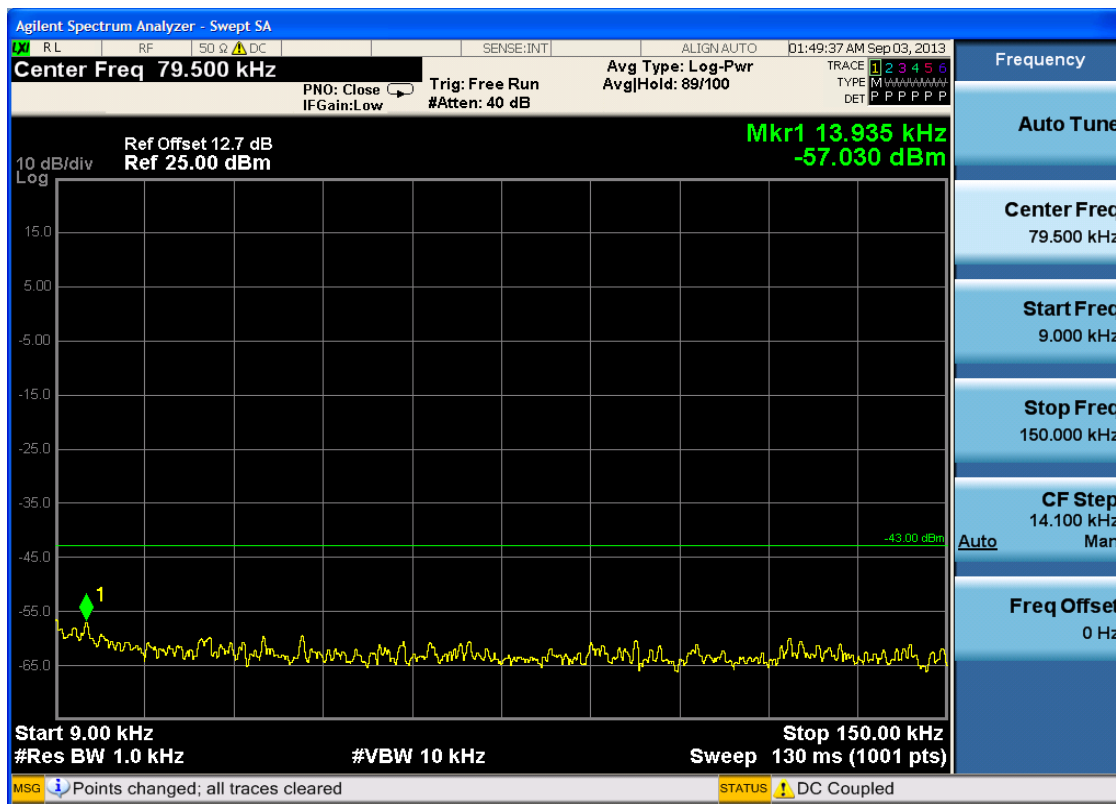


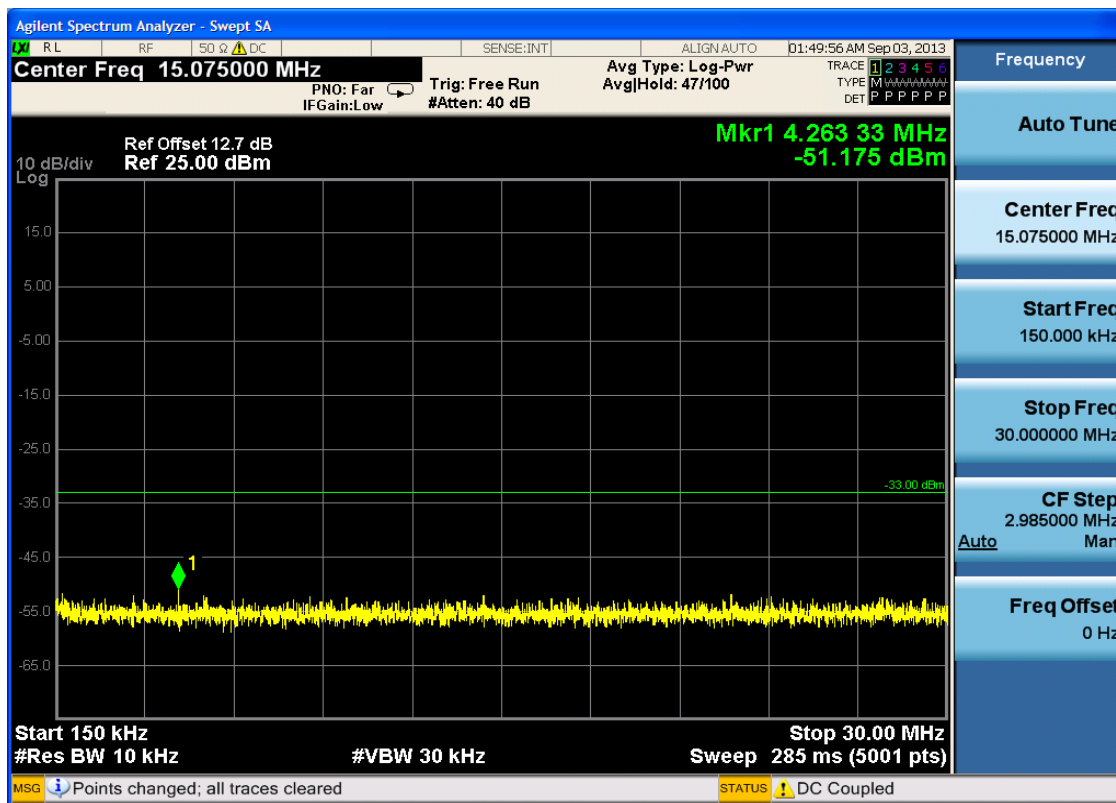


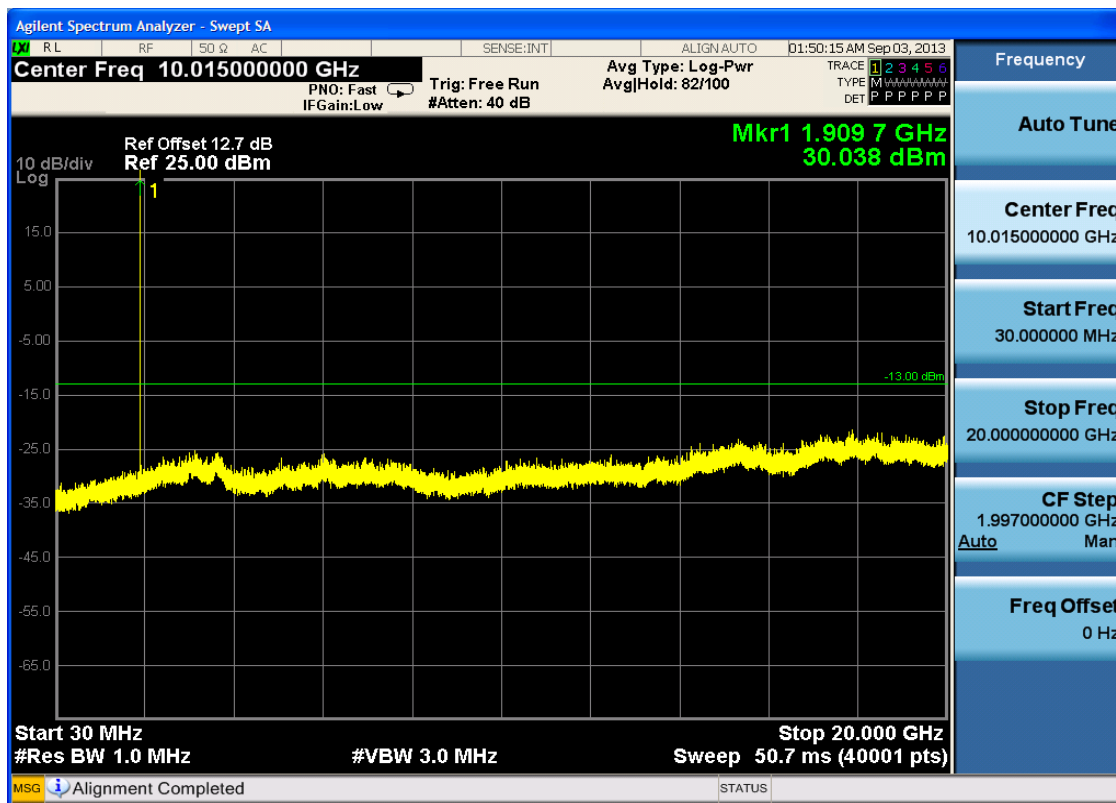




6.1.2.2.2 Test Channel = MCH

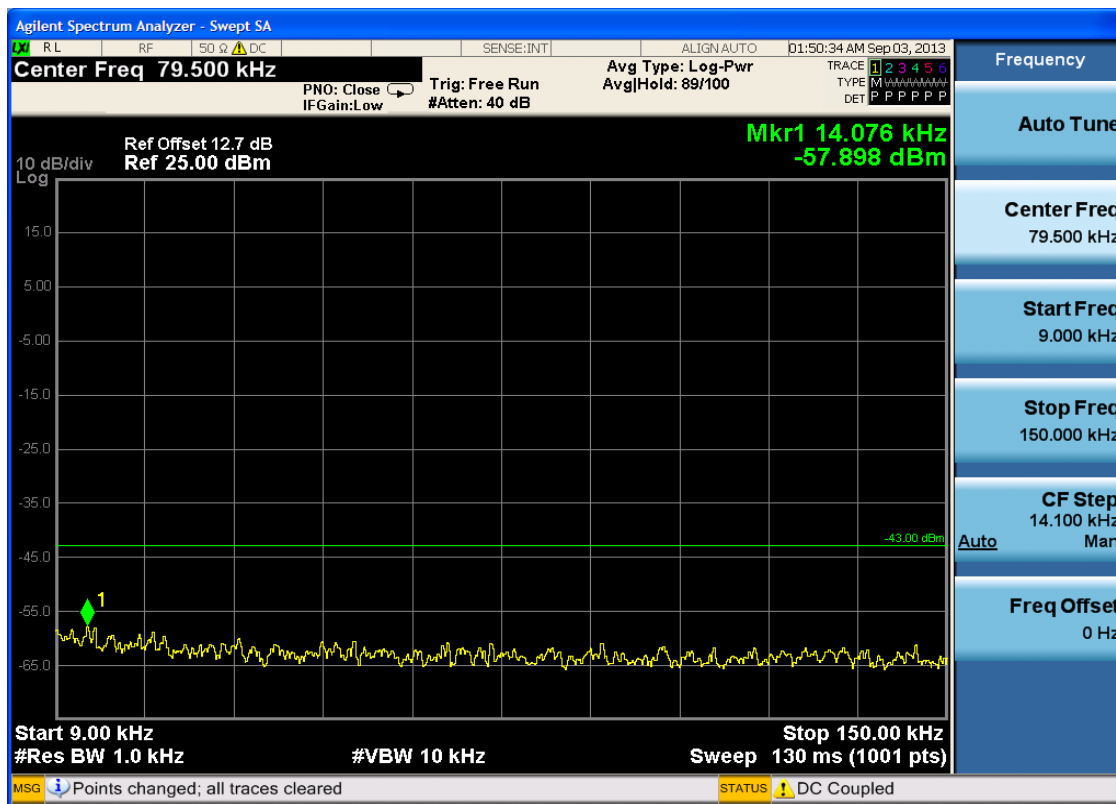


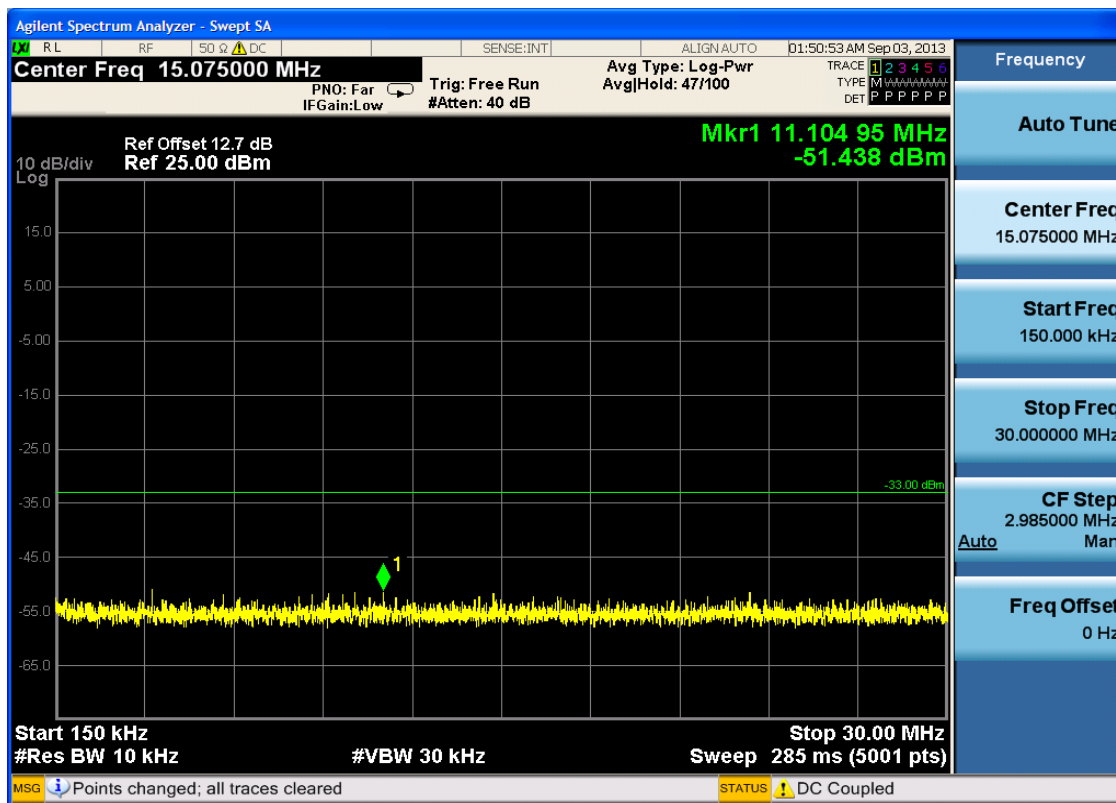


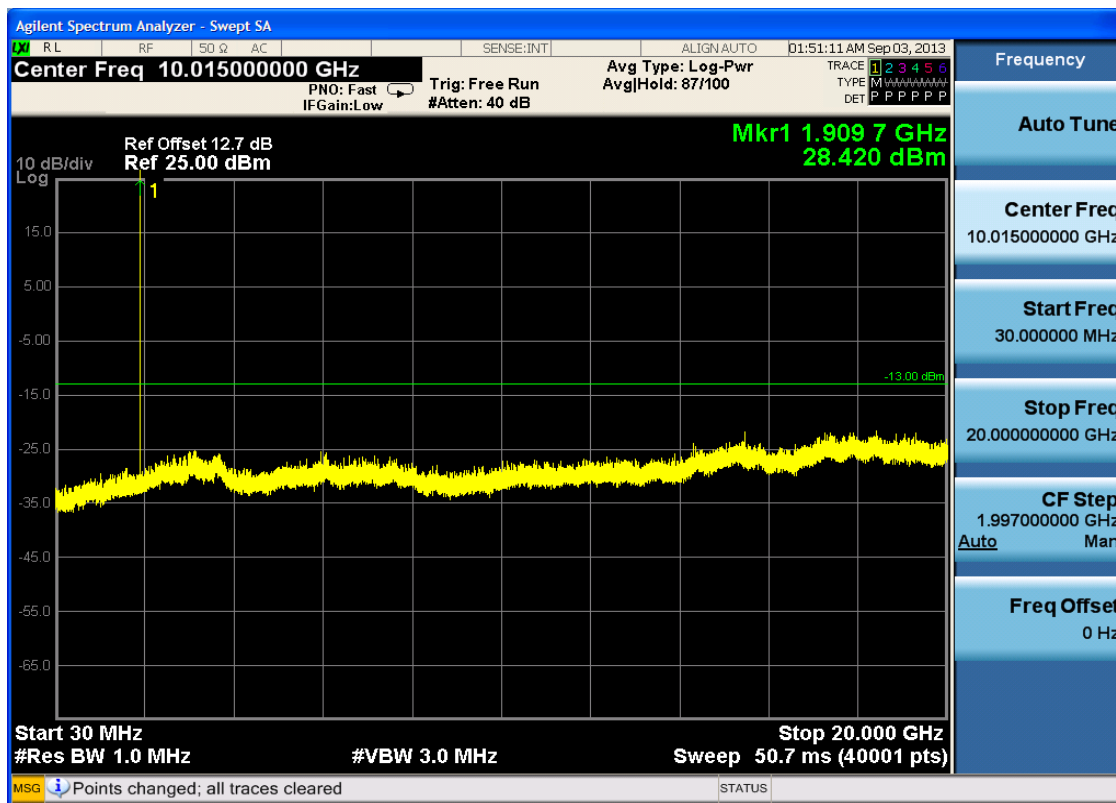




6.1.2.2.3 Test Channel = HCH





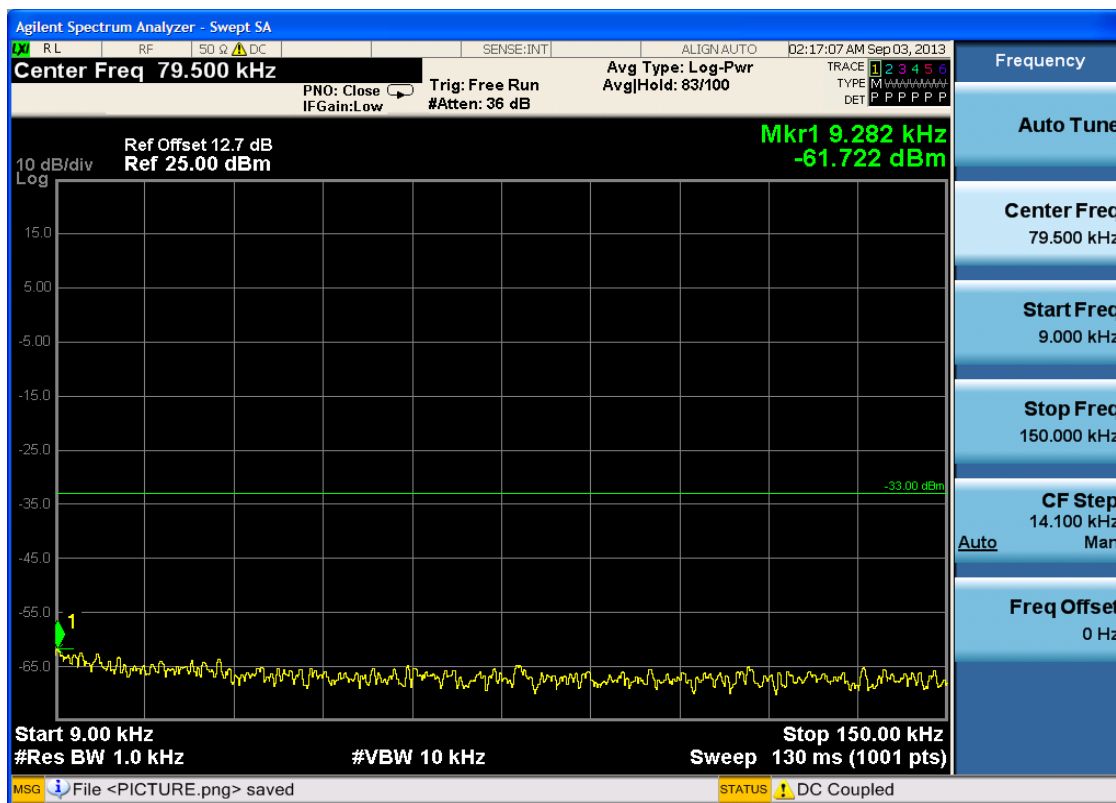


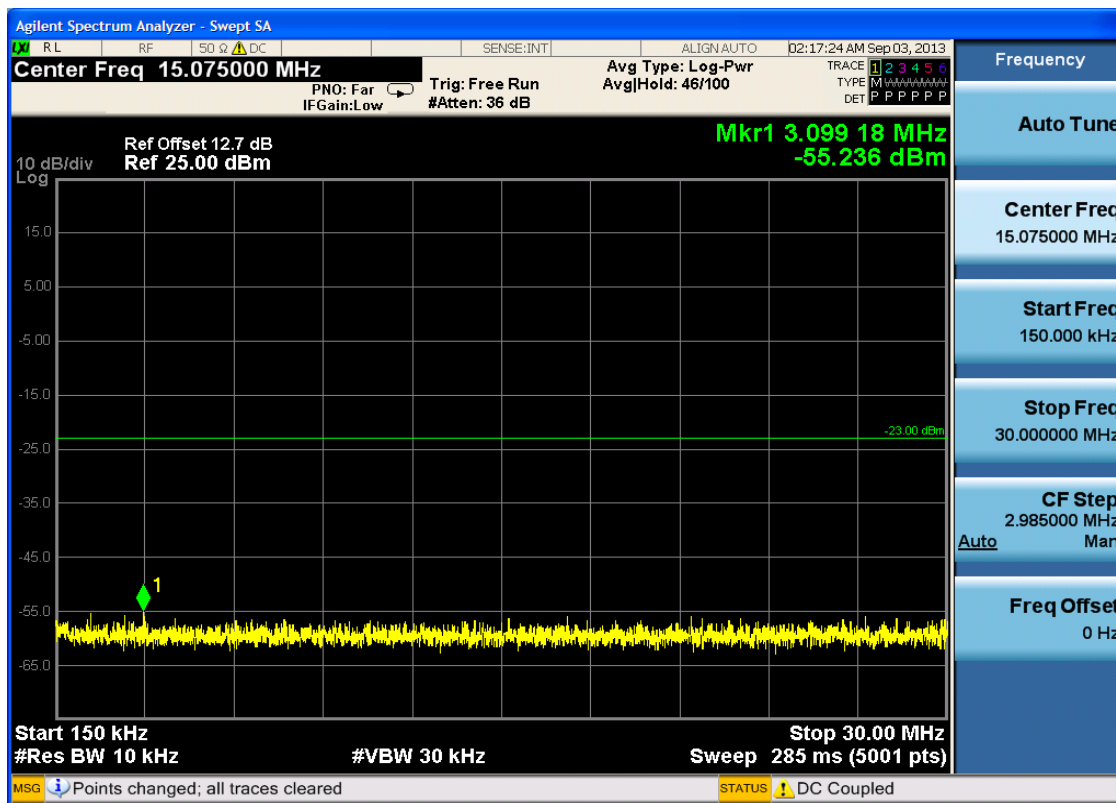
6.2 For UMTS

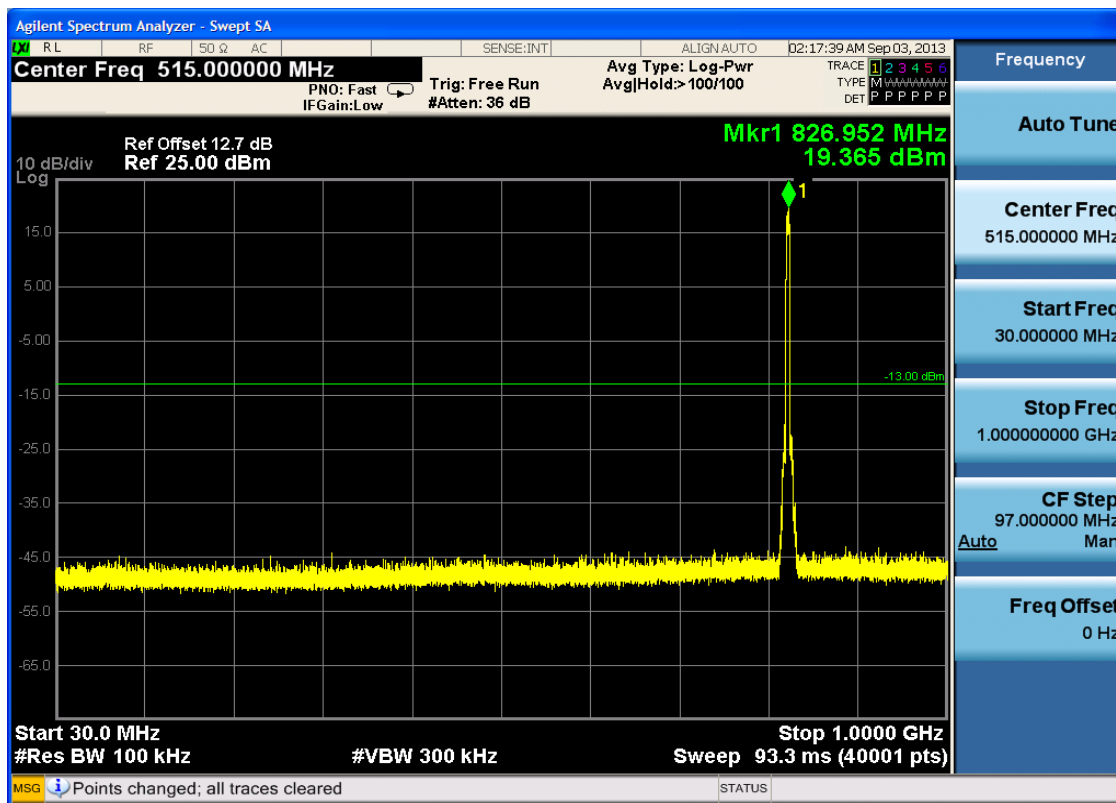
6.2.1 Test Band = WCDMA850

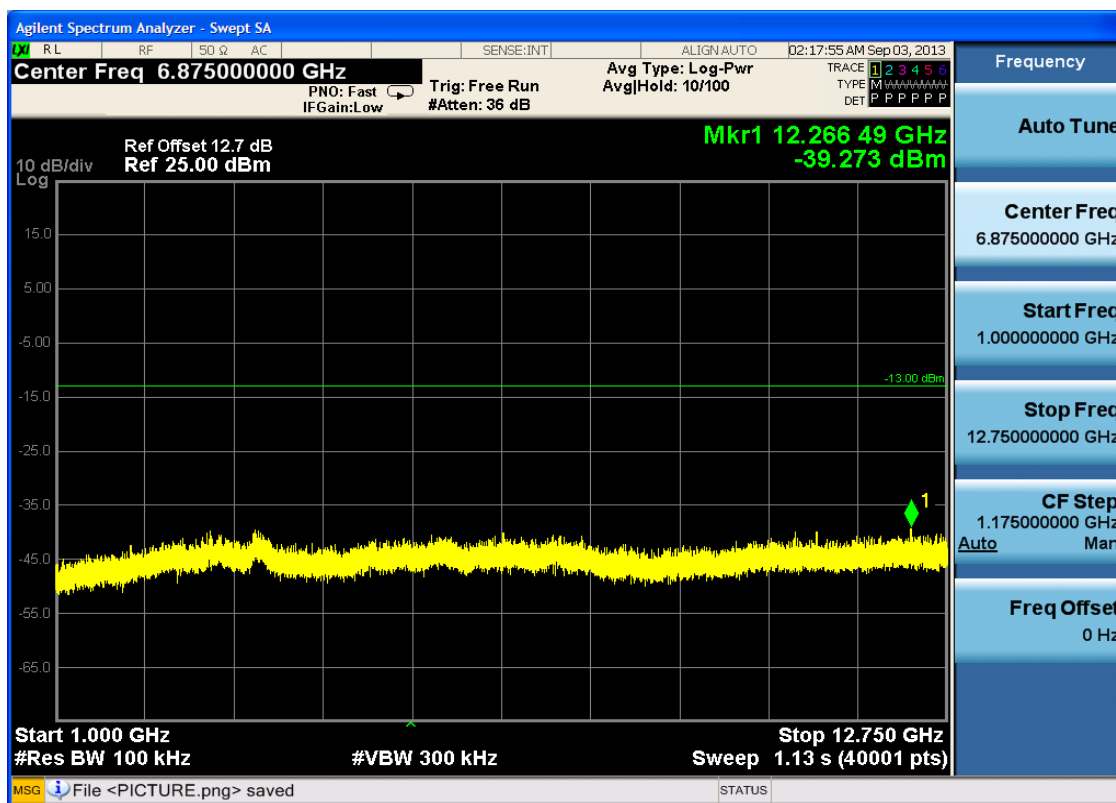
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



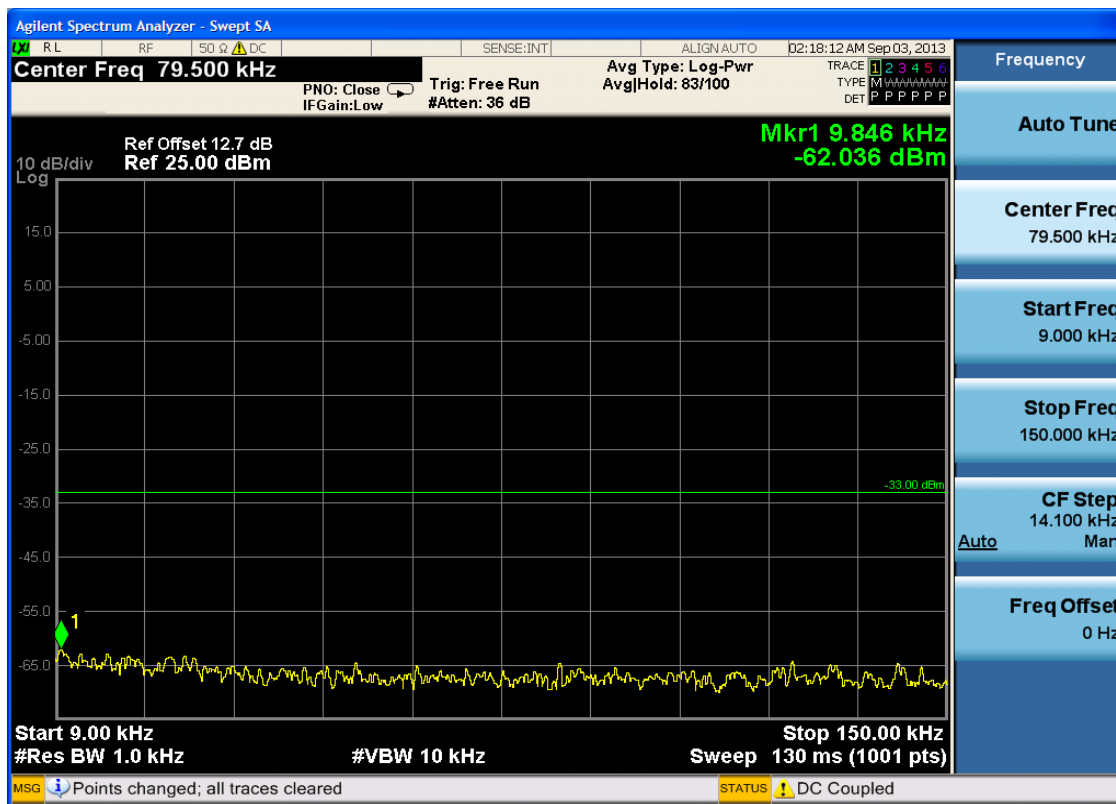


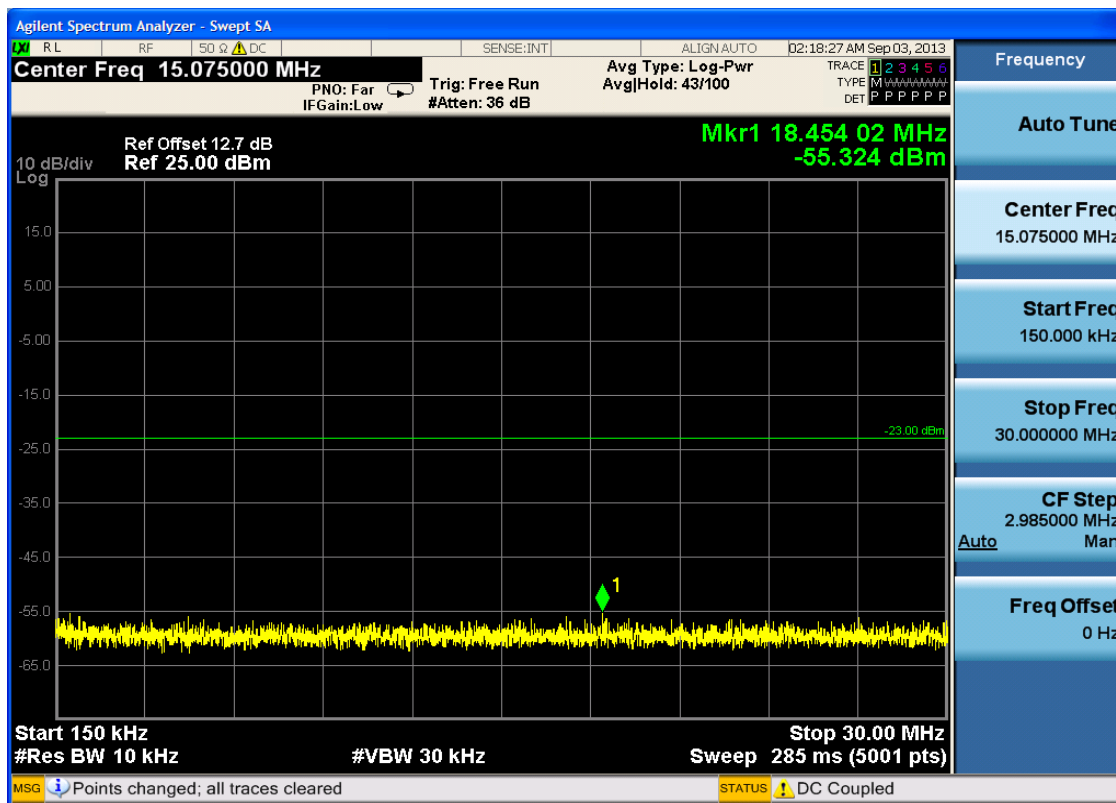


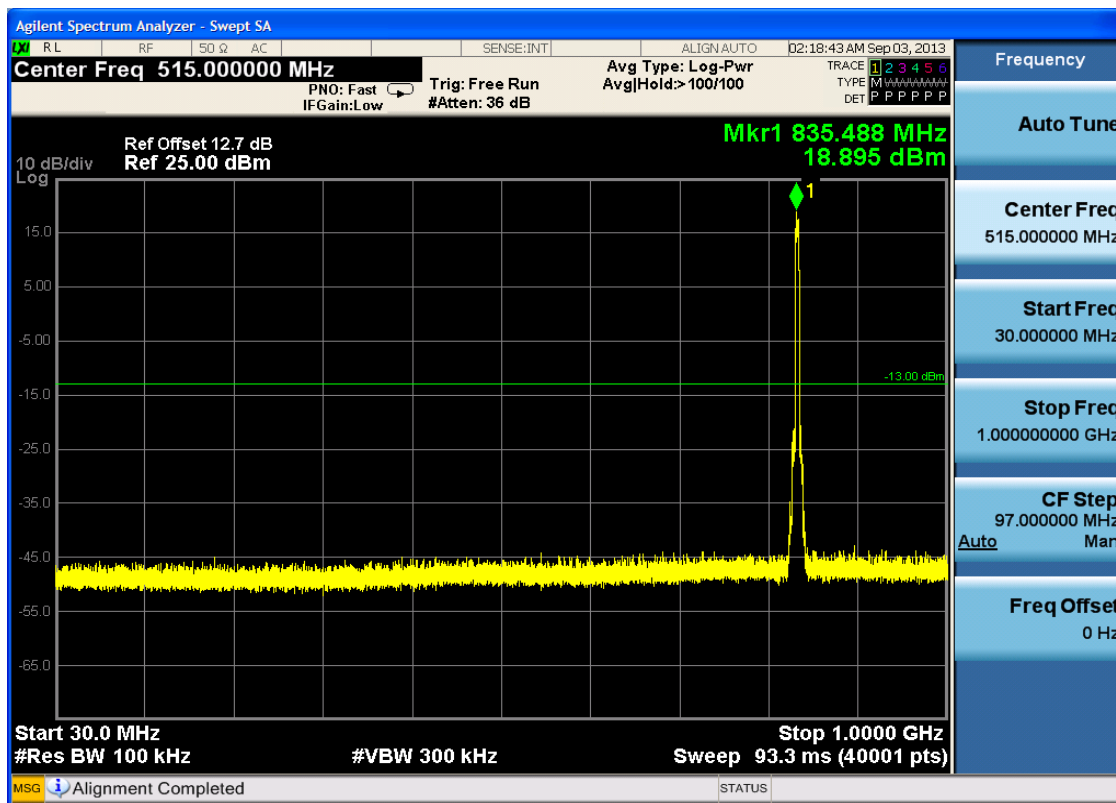


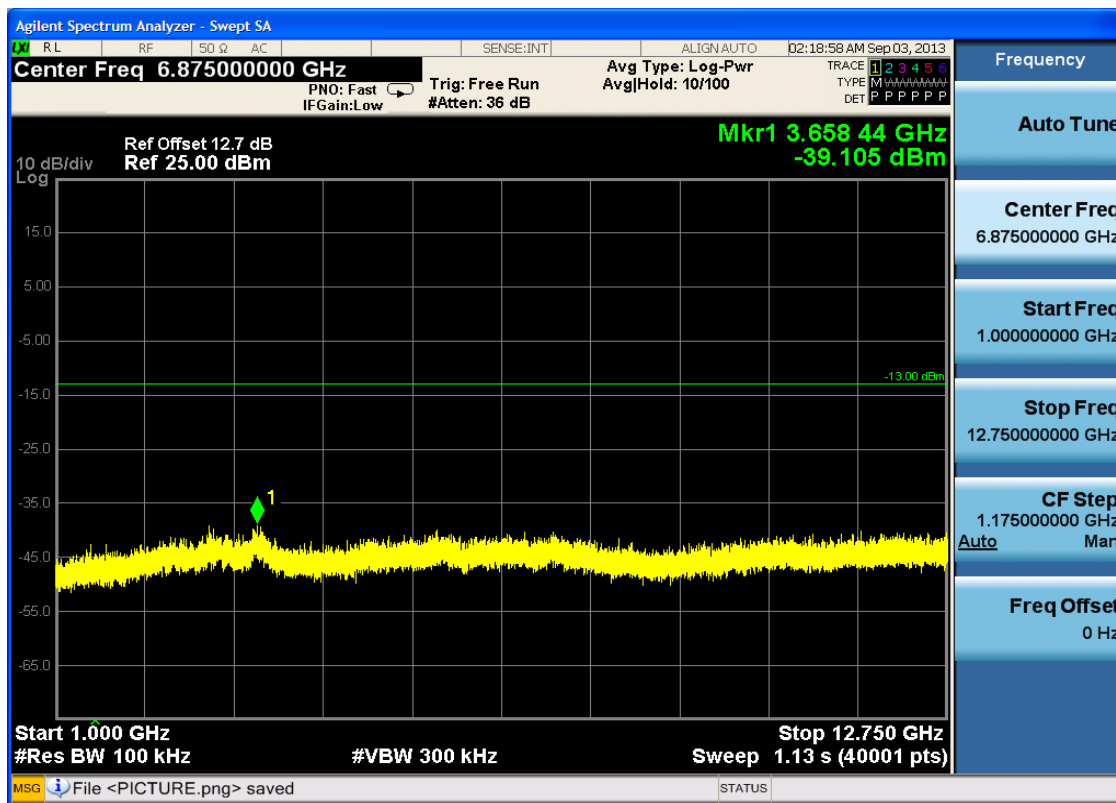


6.2.1.1.2 Test Channel = MCH



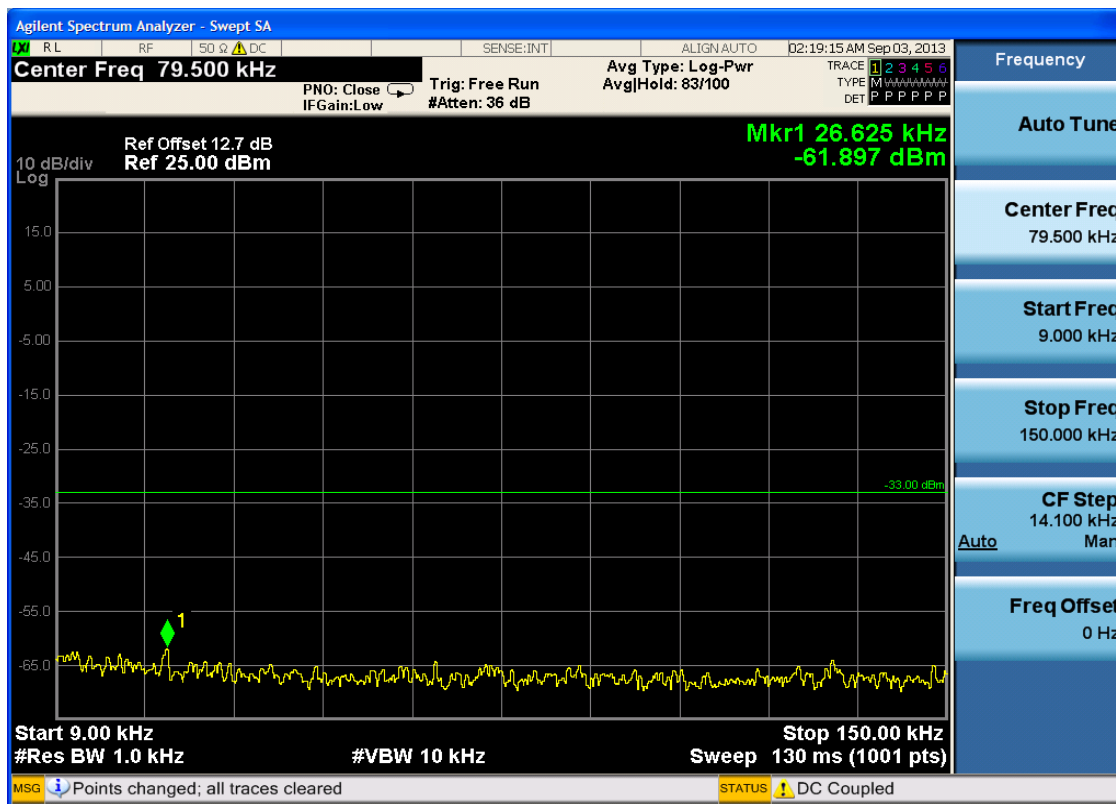


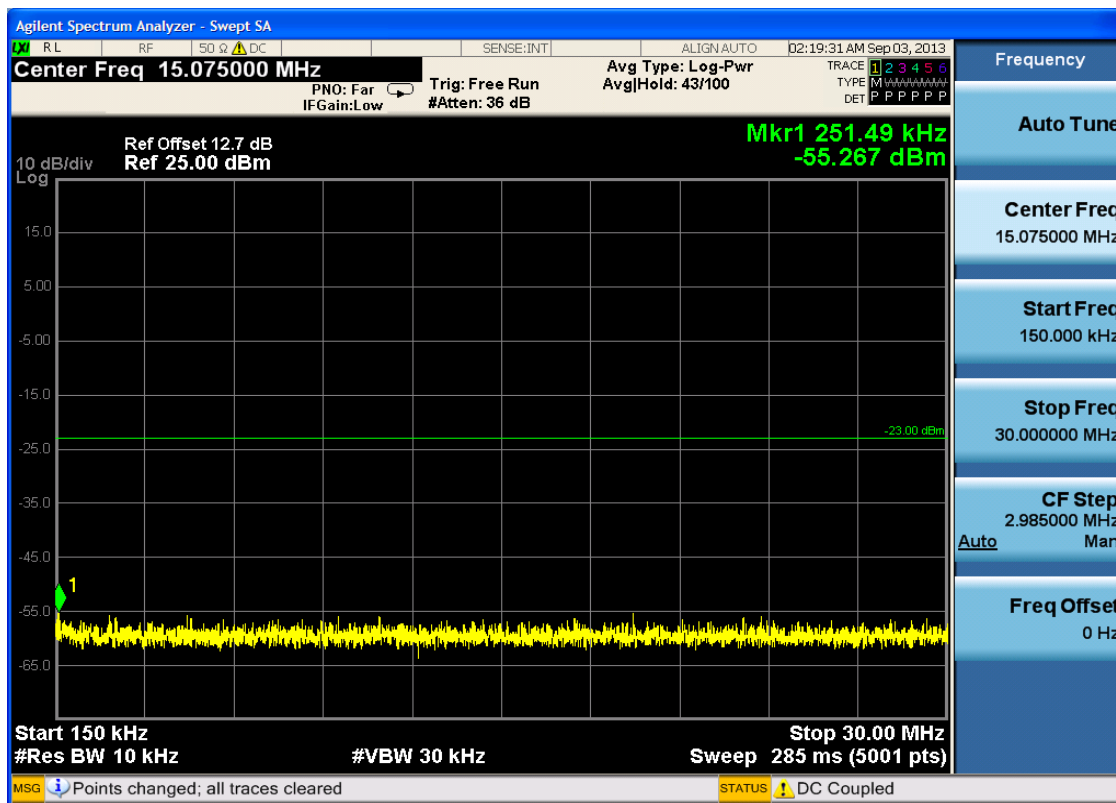


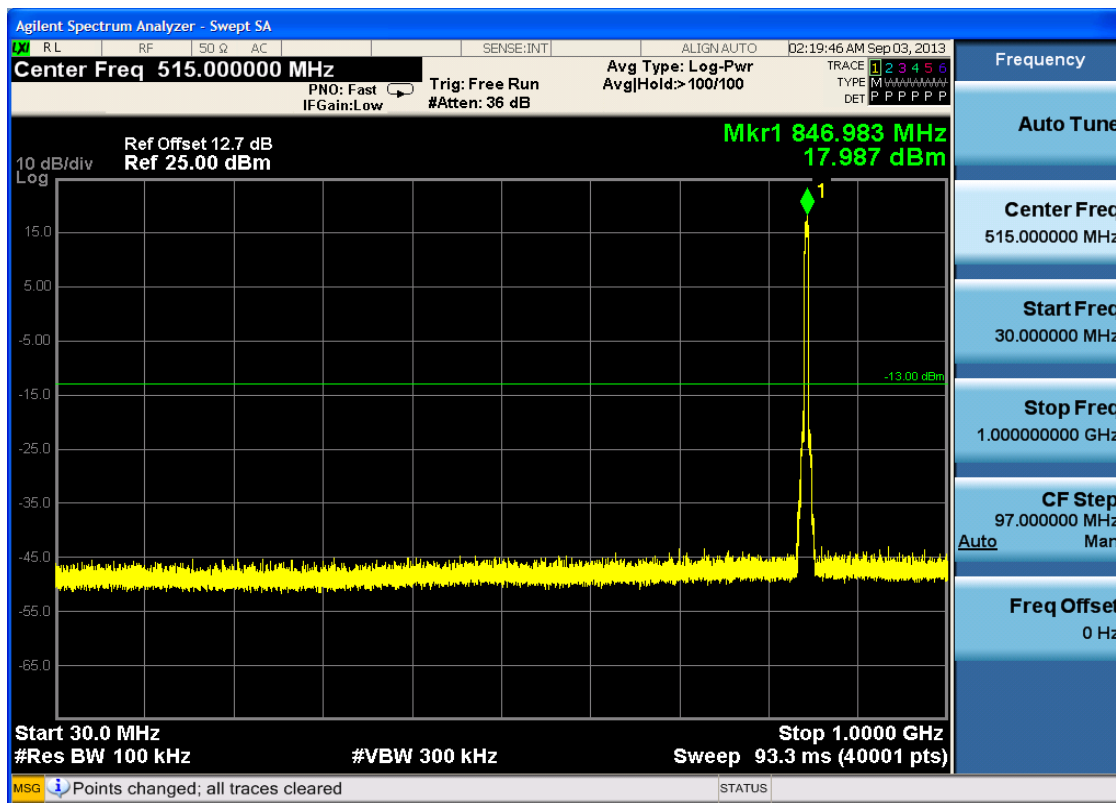


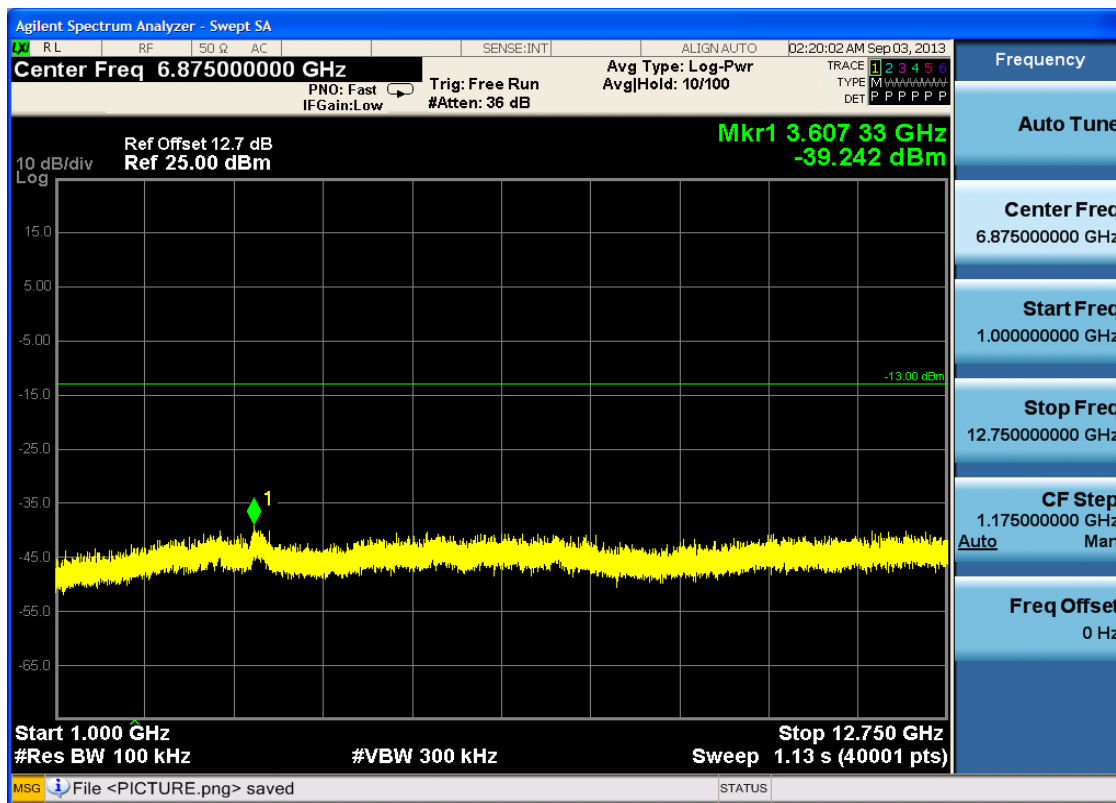


6.2.1.1.3 Test Channel = HCH





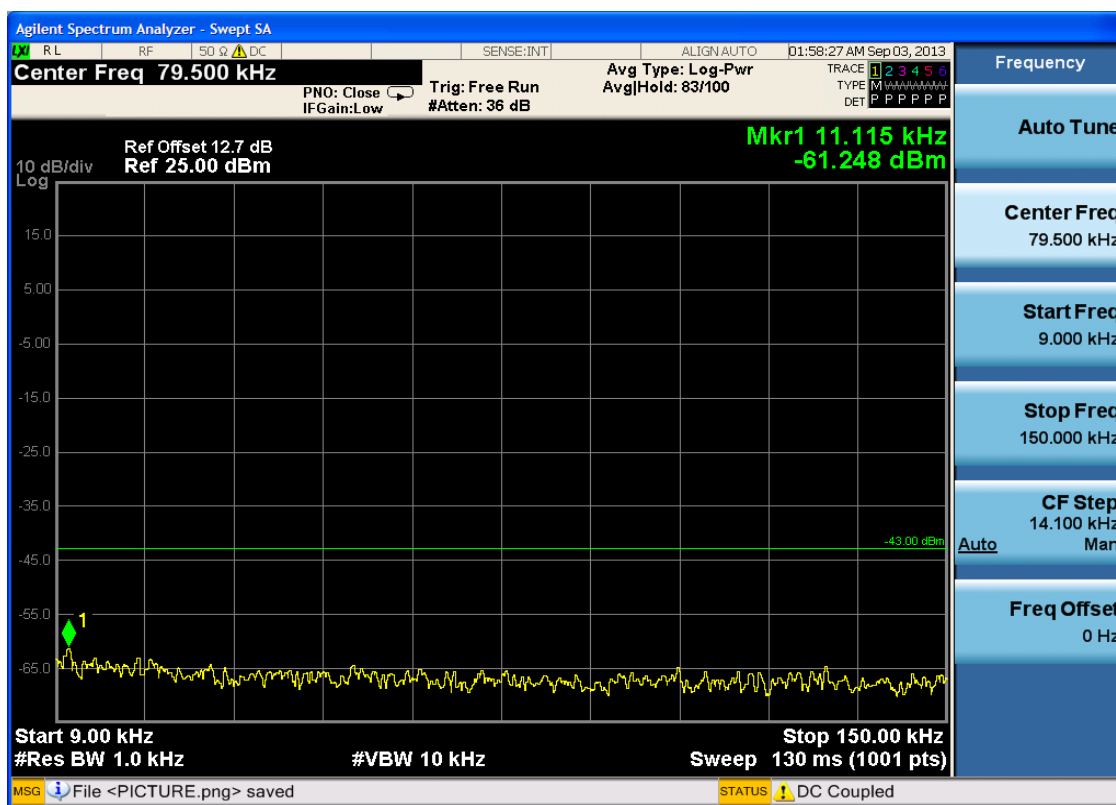


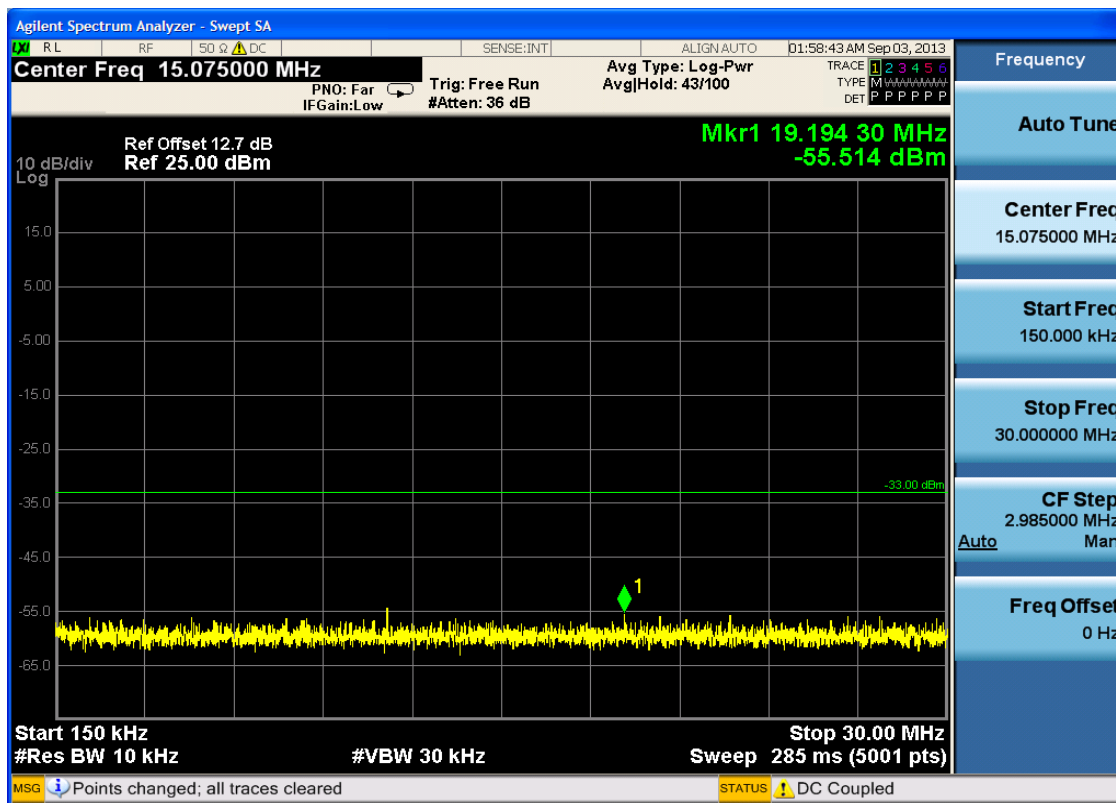


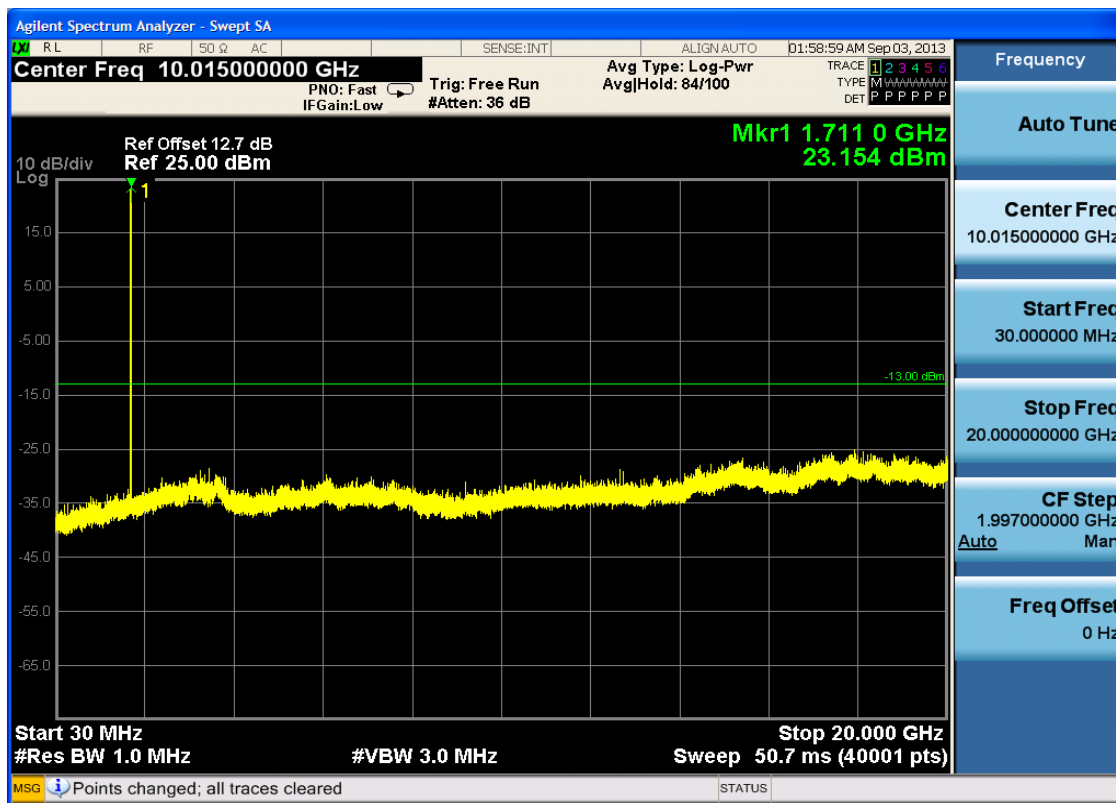
6.2.2 Test Band = WCDMA1700

6.2.2.1 Test Mode = UMTS/TM1

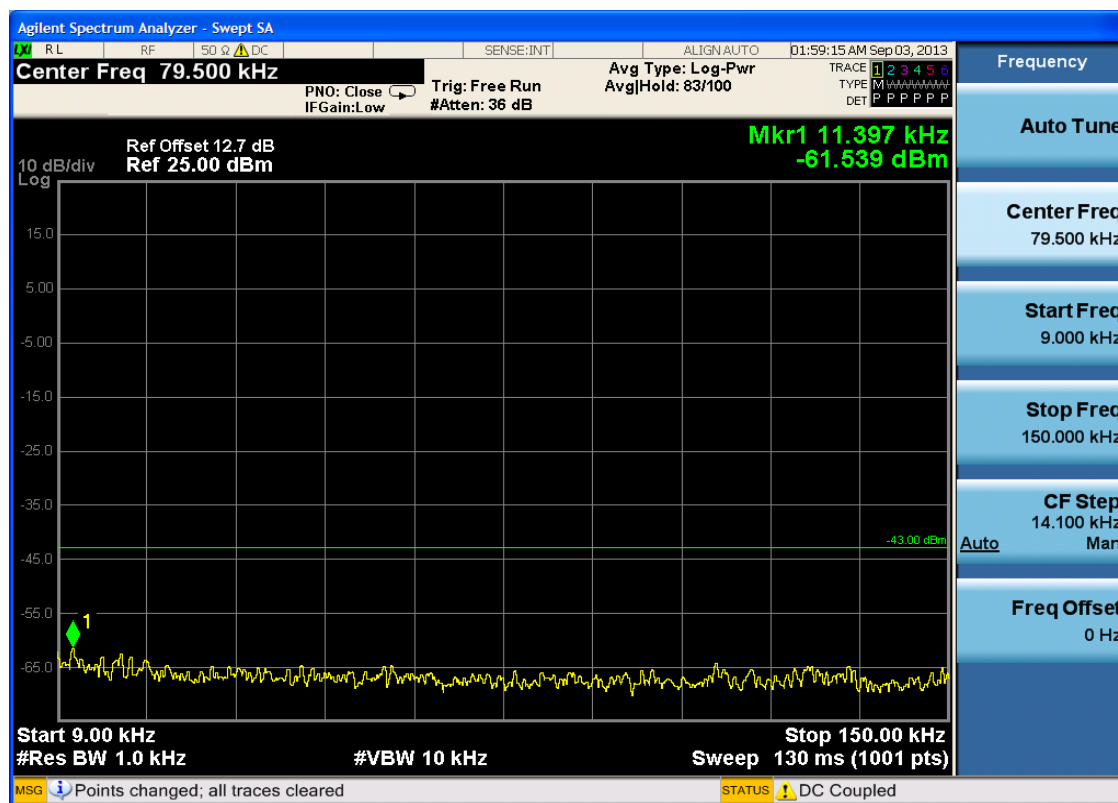
6.2.2.1.1 Test Channel = LCH

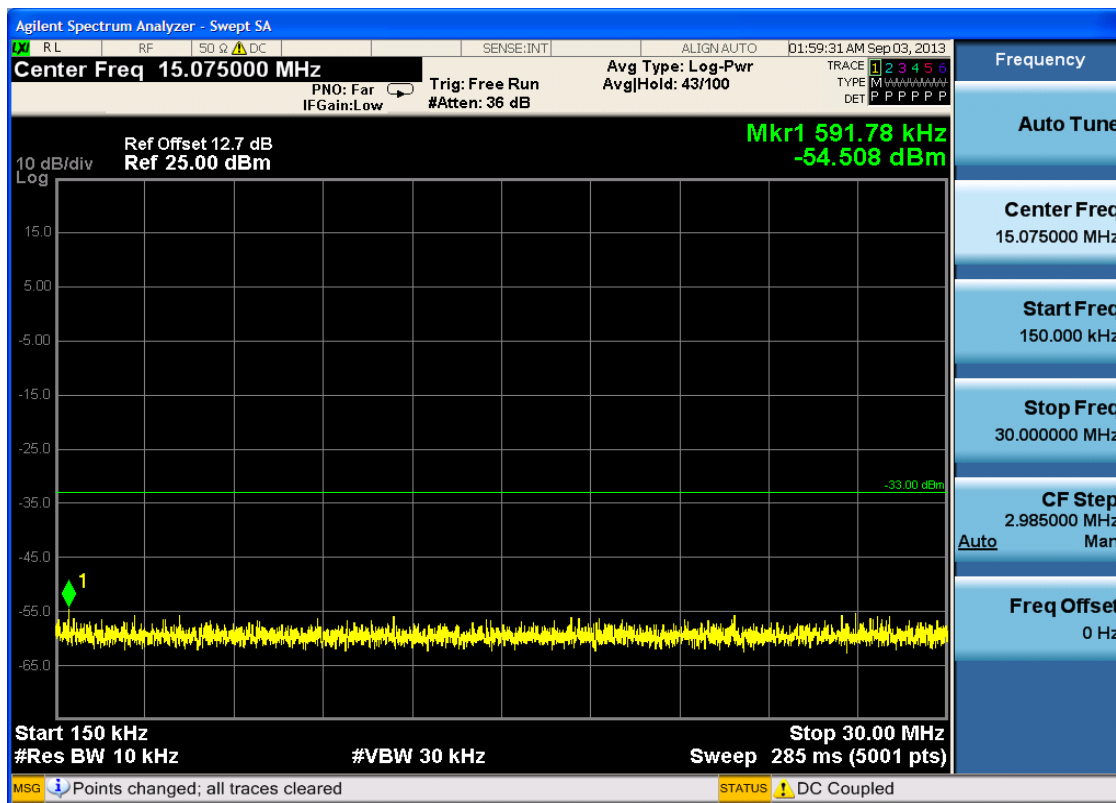


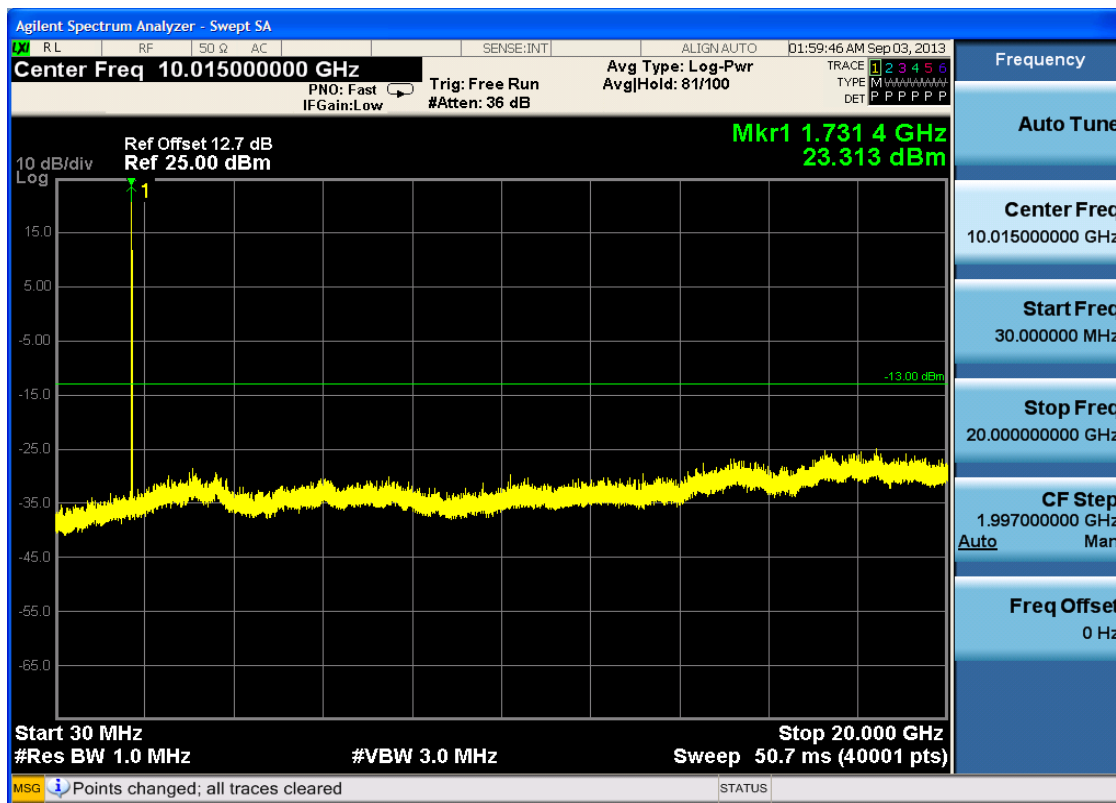




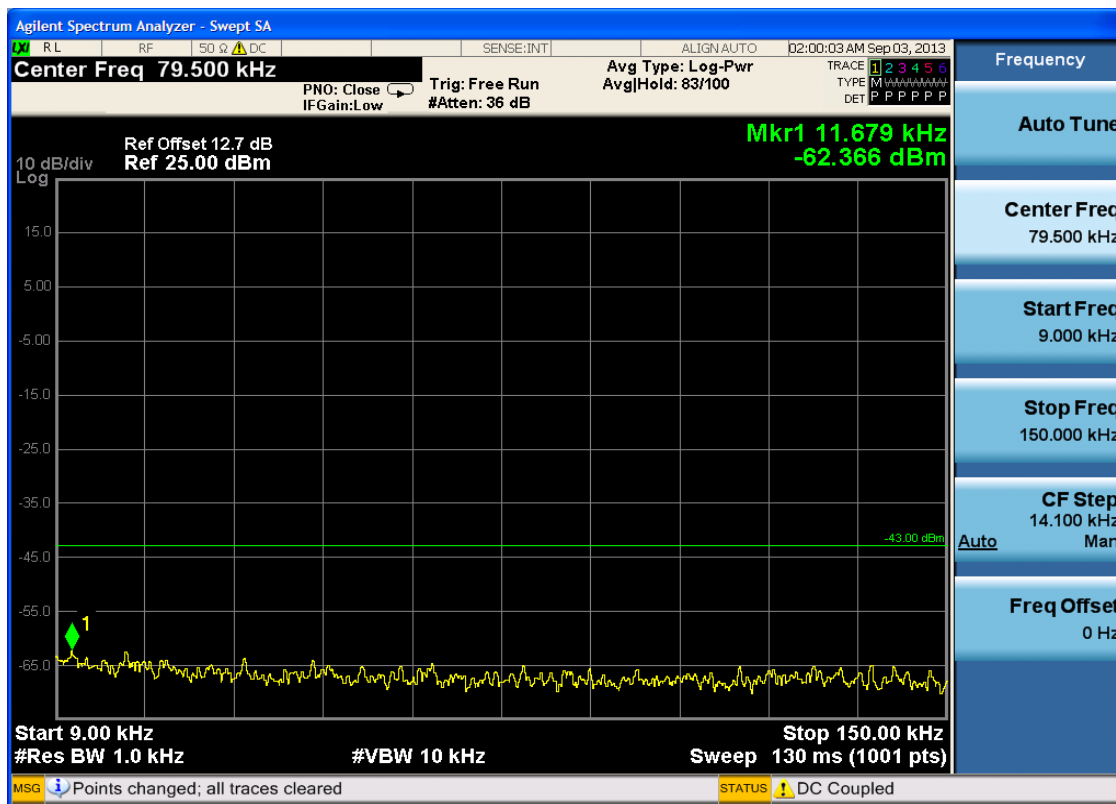
6.2.2.1.2 Test Channel = MCH

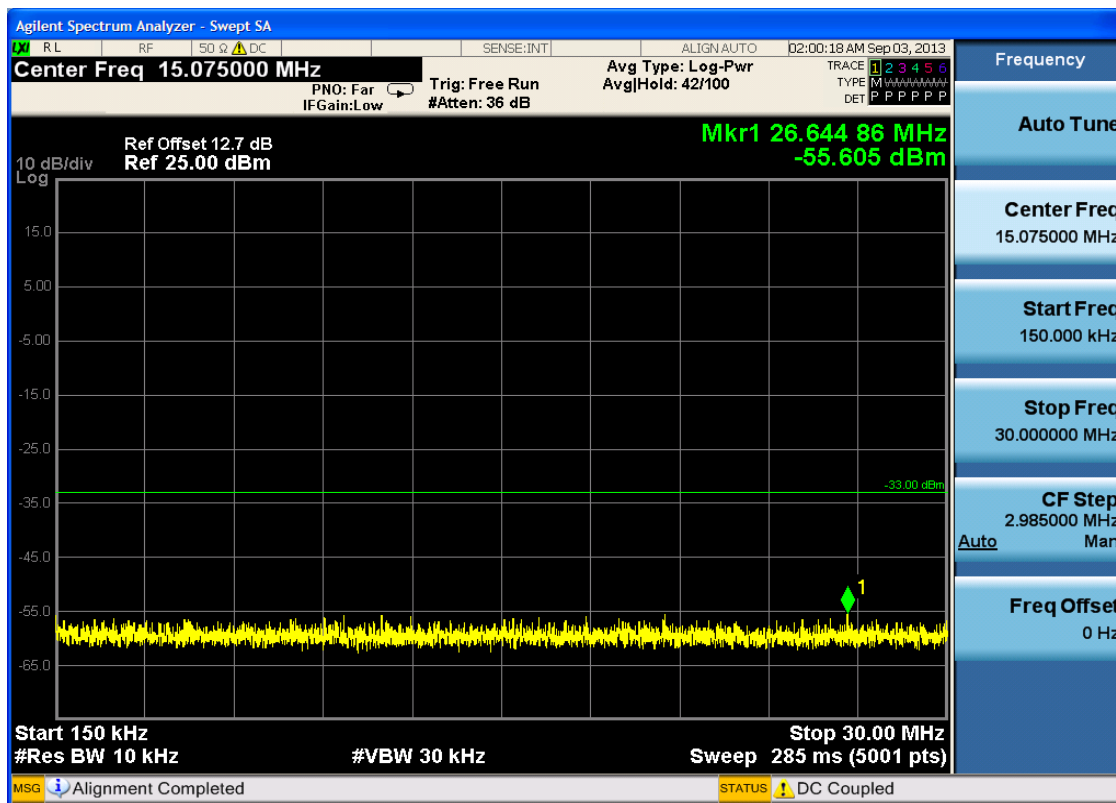


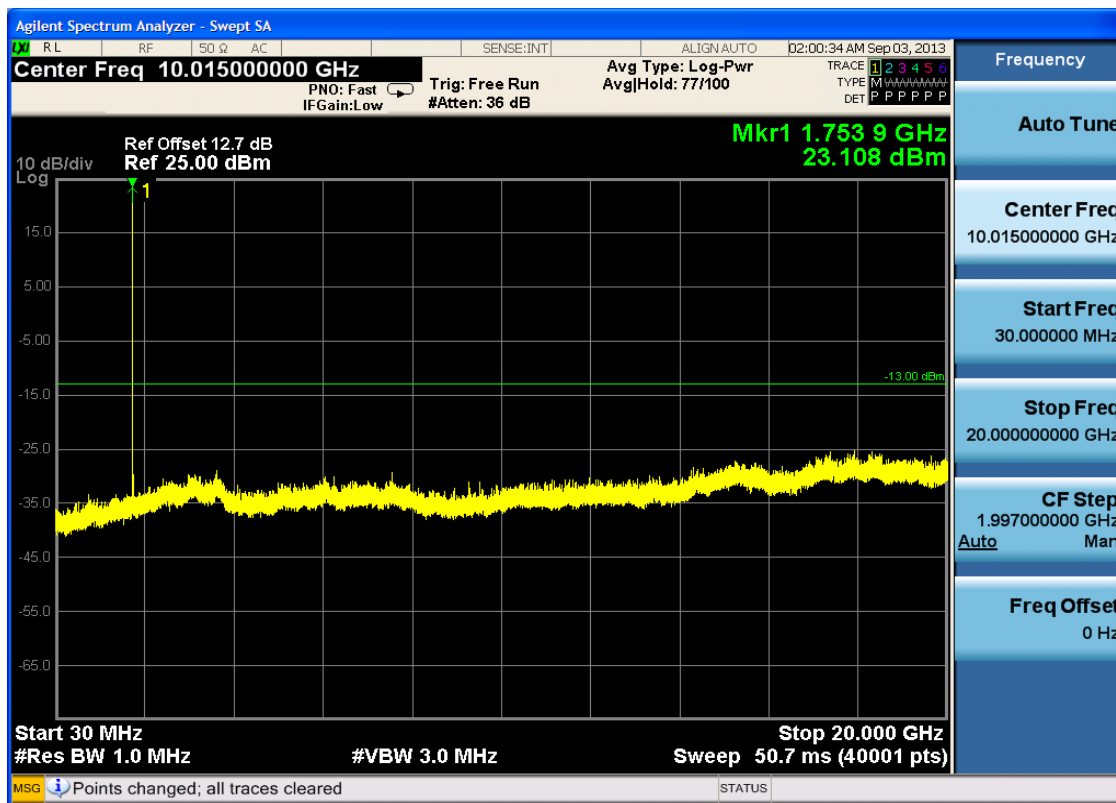




6.2.2.1.3 Test Channel = HCH



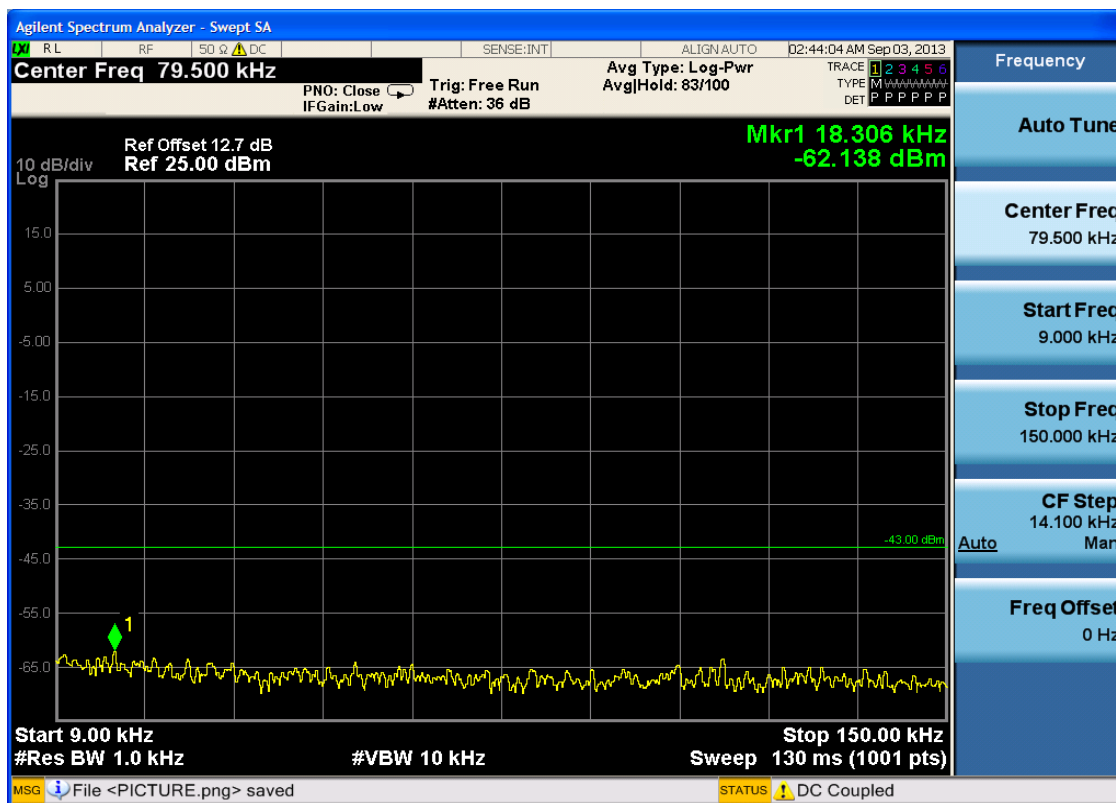


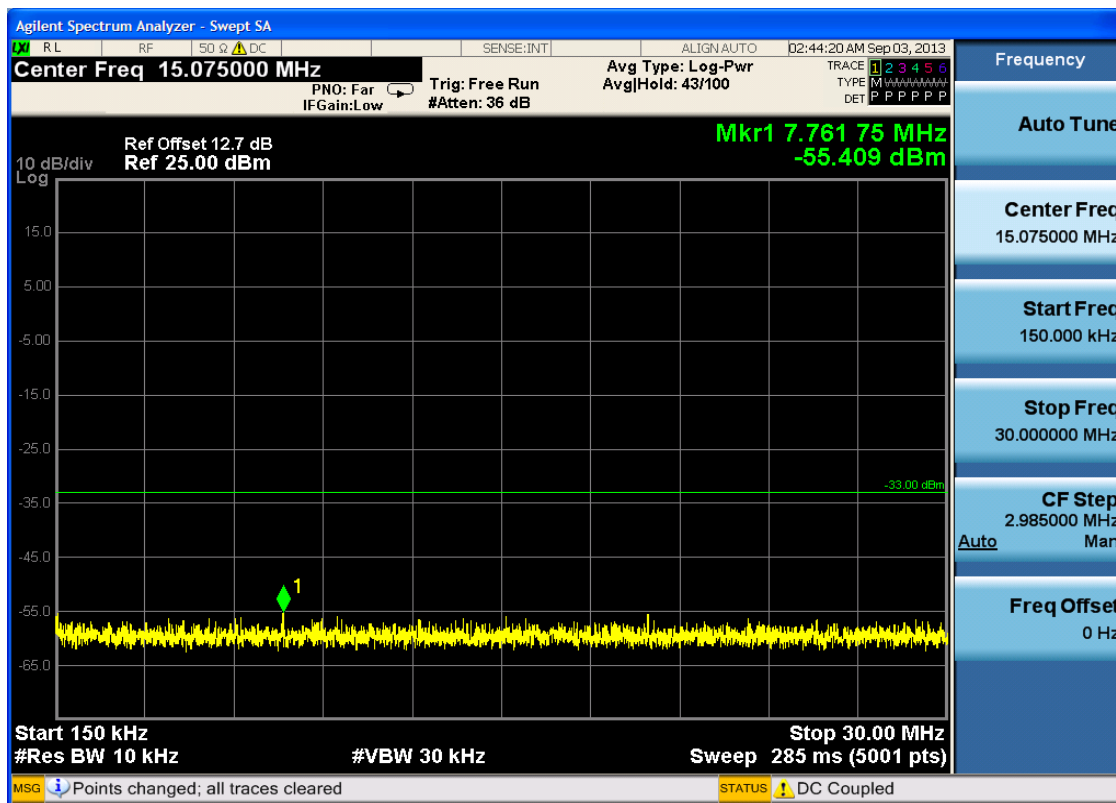


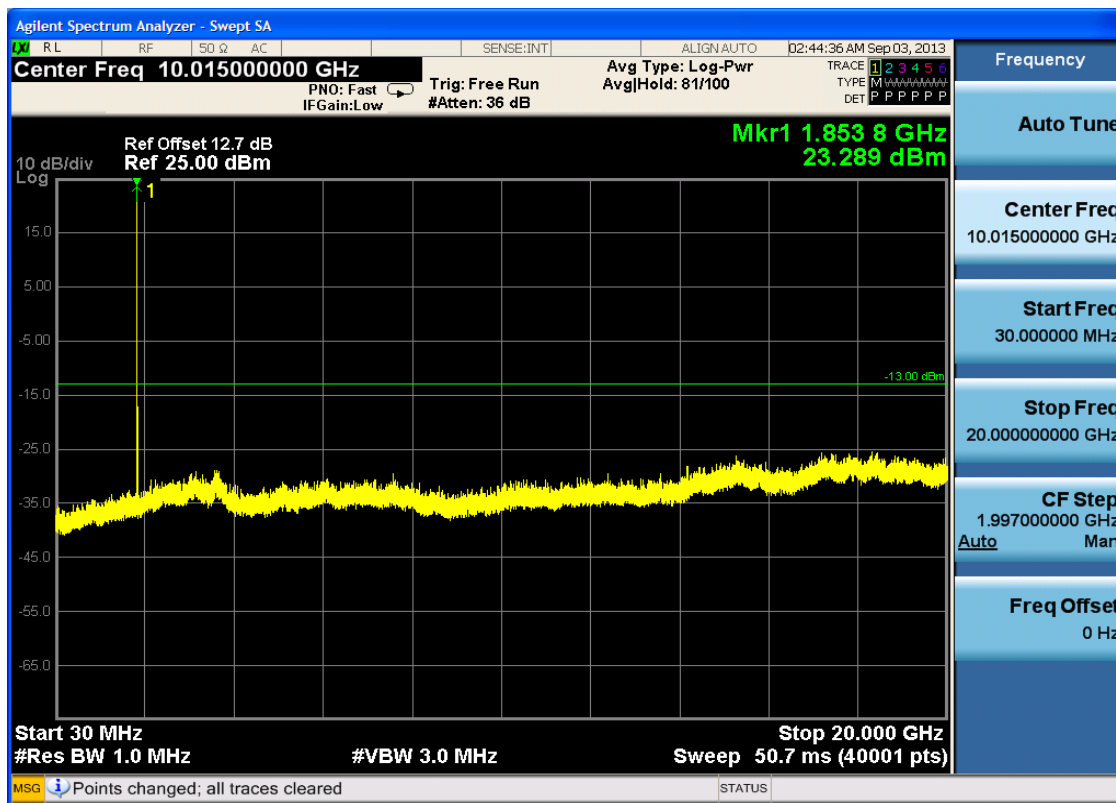
6.2.4 Test Band = WCDMA1900

6.2.4.1 Test Mode = UMTS/TM1

6.2.4.1.1 Test Channel = LCH

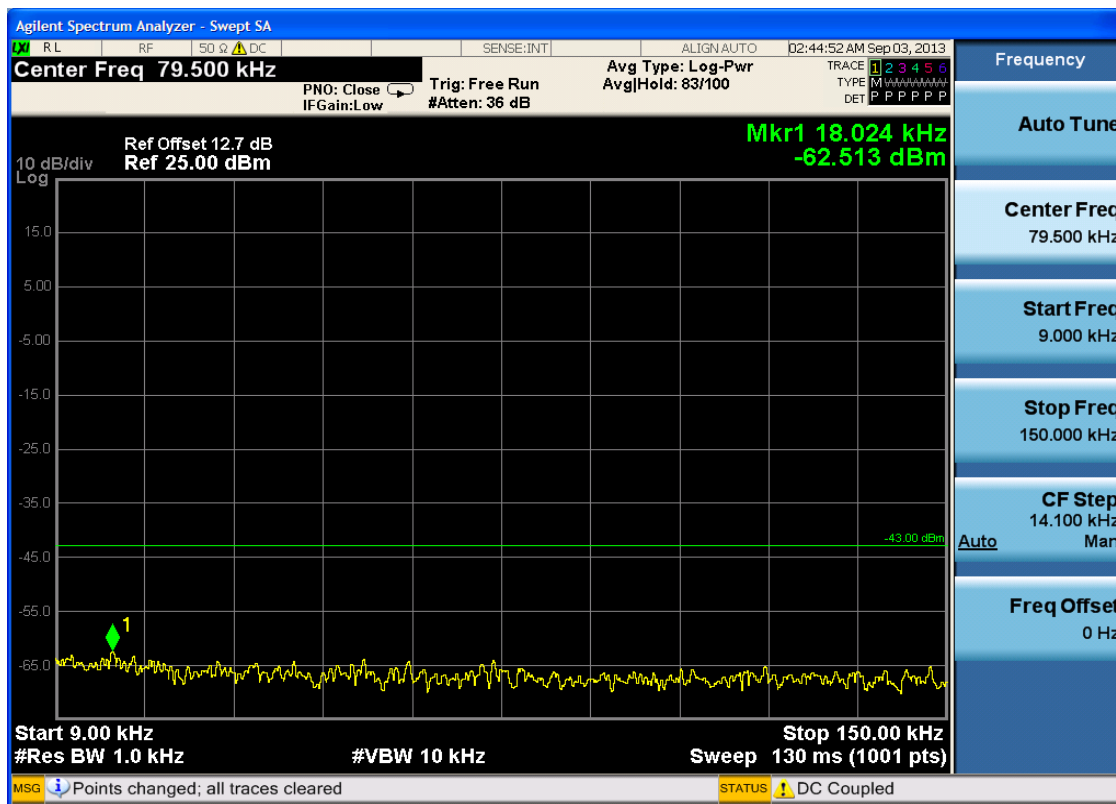


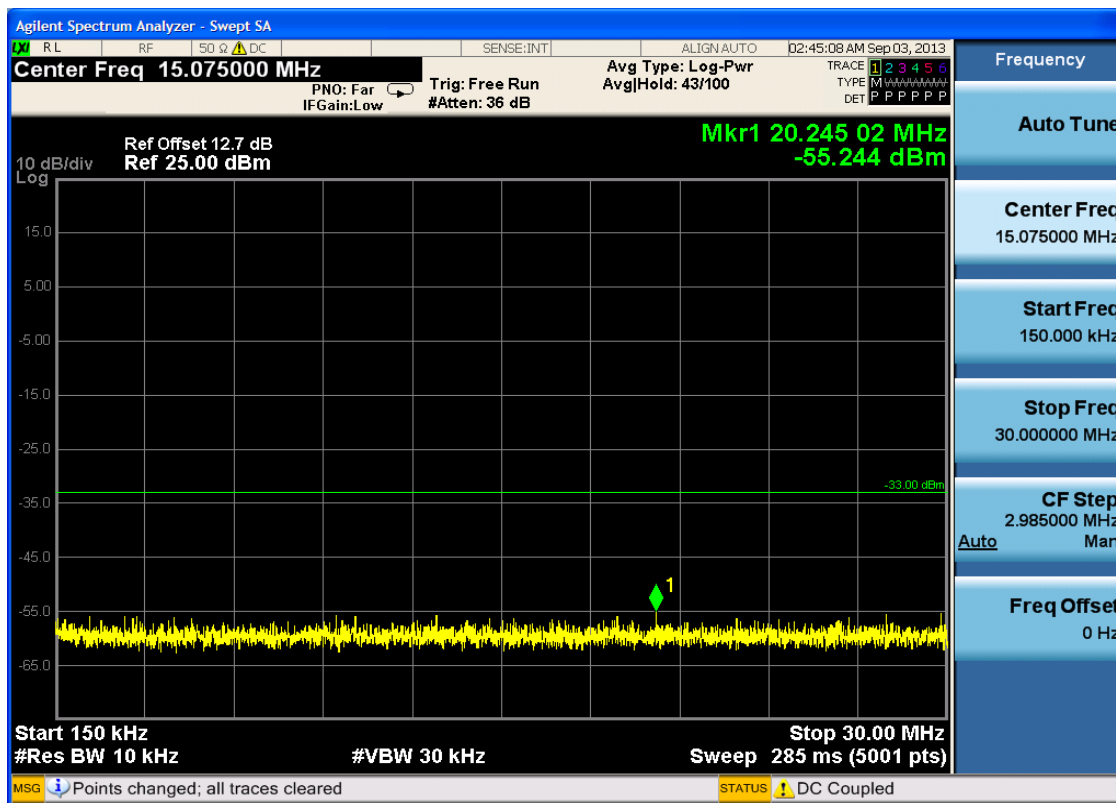


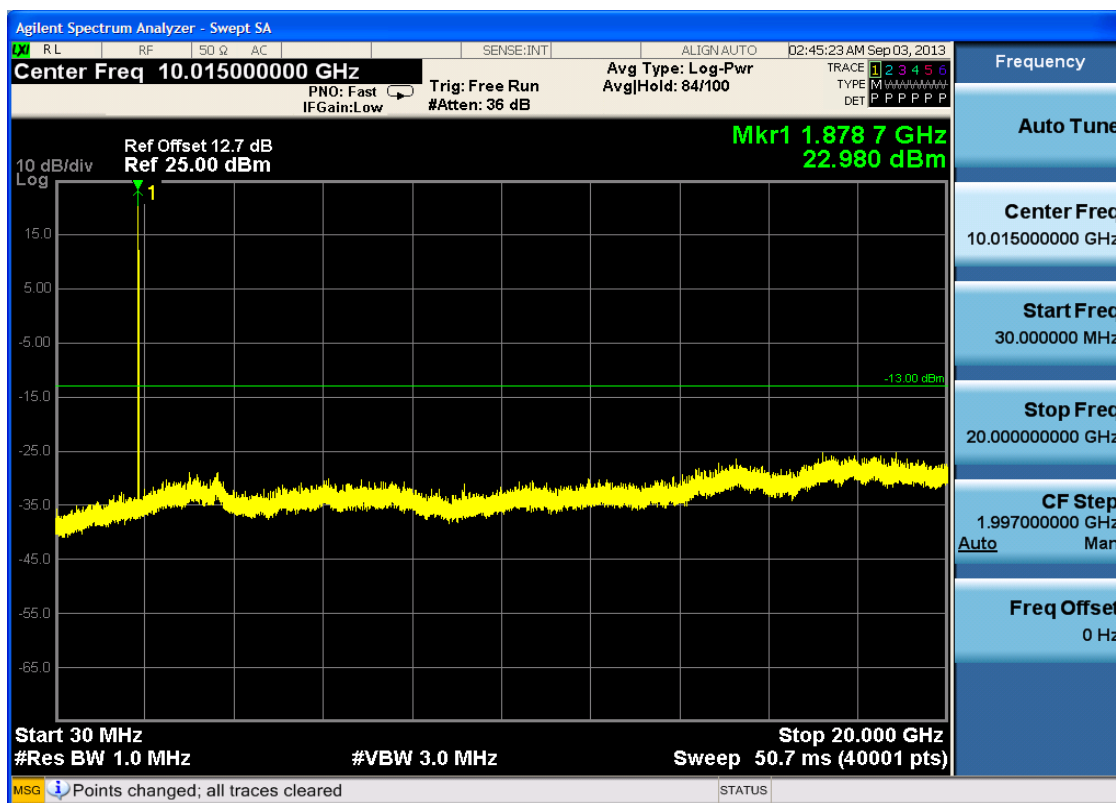


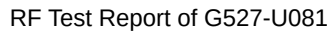


6.2.4.1.2 Test Channel = MCH









Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω Δ DC SENSE:INT ALIGN:AUTO 02:45:40 AM Sep 03, 2013

Center Freq 79.500 kHz PNO: Close IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: Log-Pwr Avg|Hold: 83/100 TRACE 1 2 3 4 5 6 TYPE M W U I P P P P P P DET P P P P P P

Ref Offset 12.7 dB
 Ref 25.00 dBm

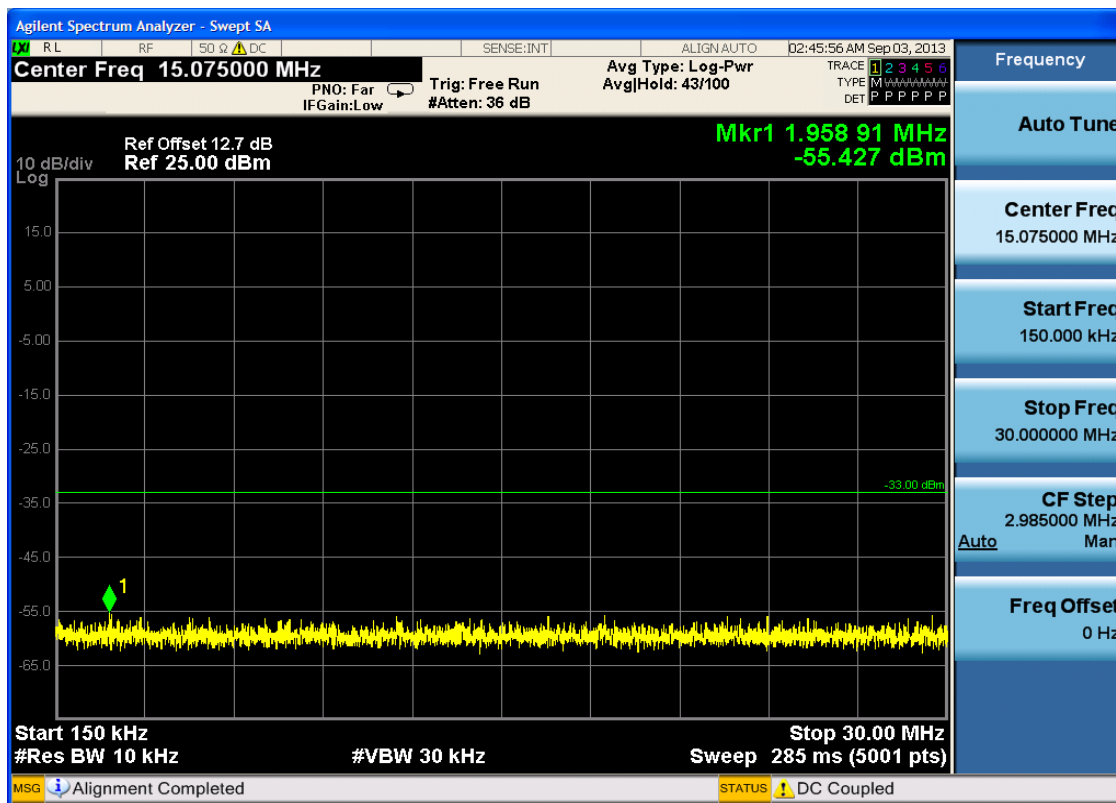
Mkr1 10.833 kHz
-61.909 dBm

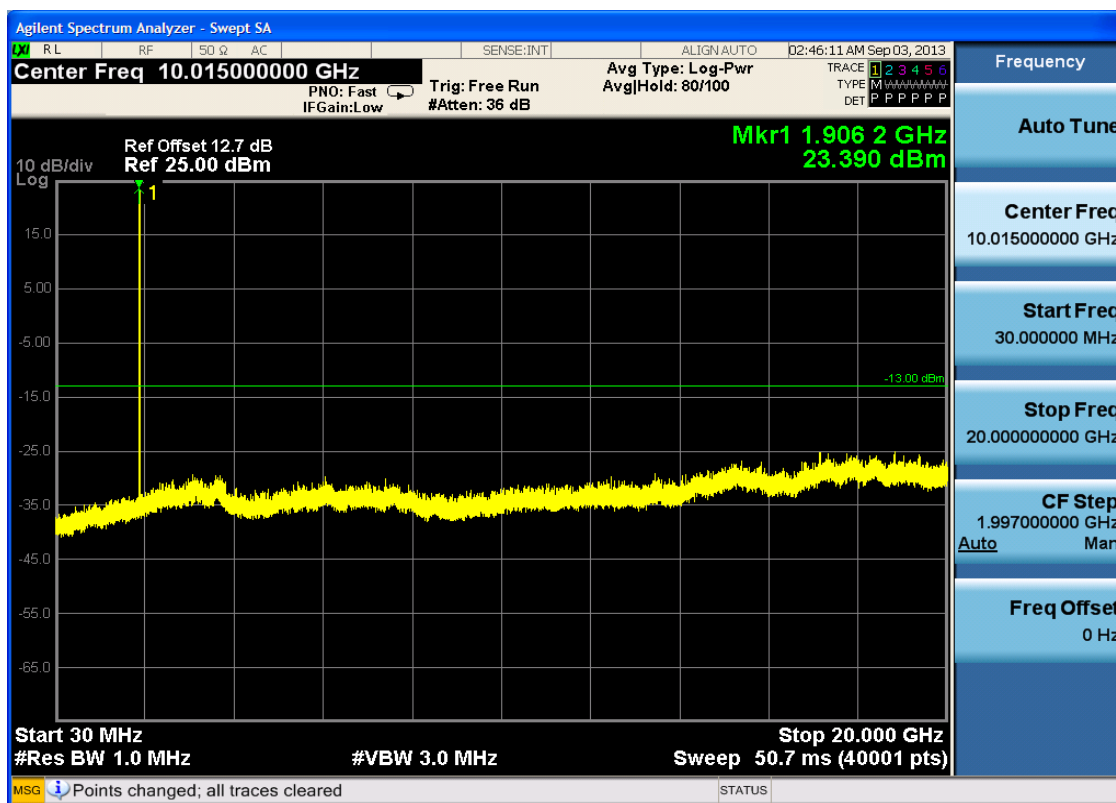
10 dB/div
 Log

Start 9.00 kHz Stop 150.00 kHz
 #Res BW 1.0 kHz #VBW 10 kHz Sweep 130 ms (1001 pts)

MSG Points changed; all traces cleared STATUS DC Coupled

Frequency
 Auto Tune
 Center Freq 79.500 kHz
 Start Freq 9.000 kHz
 Stop Freq 150.000 kHz
 CF Step 14.100 kHz
 Auto Man
 Freq Offset 0 Hz





7Appendix_G: Field Strength of Spurious Radiation

Note:

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

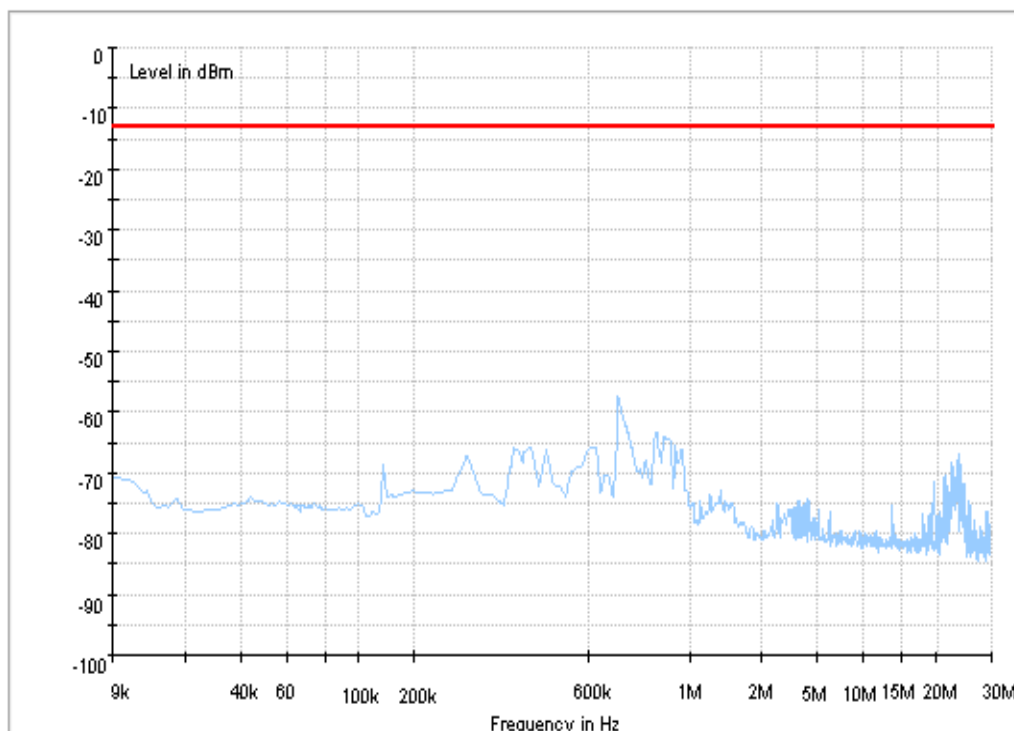
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

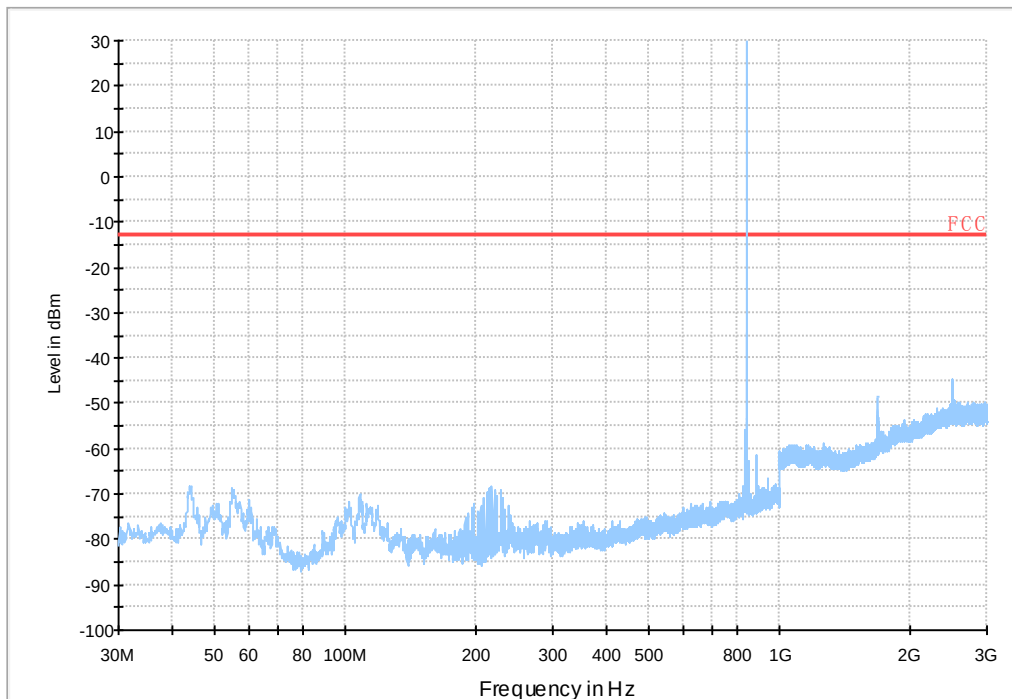
7.1 For GSM

7.1.1 Test Band = GSM850

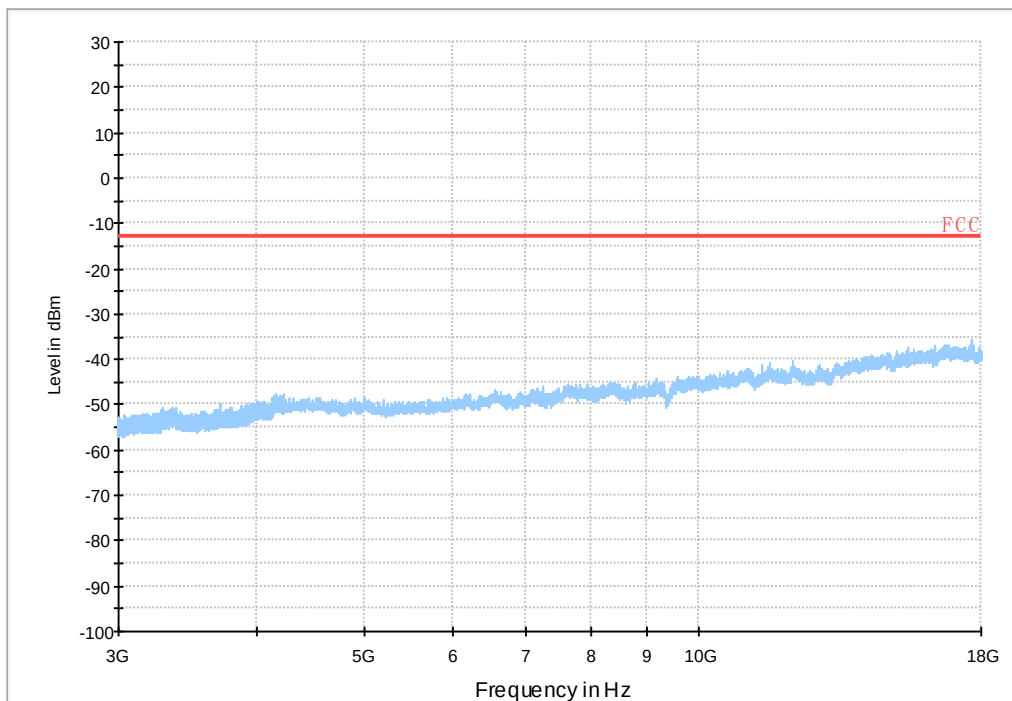
7.1.1.1 Test Mode = GSM/TM1



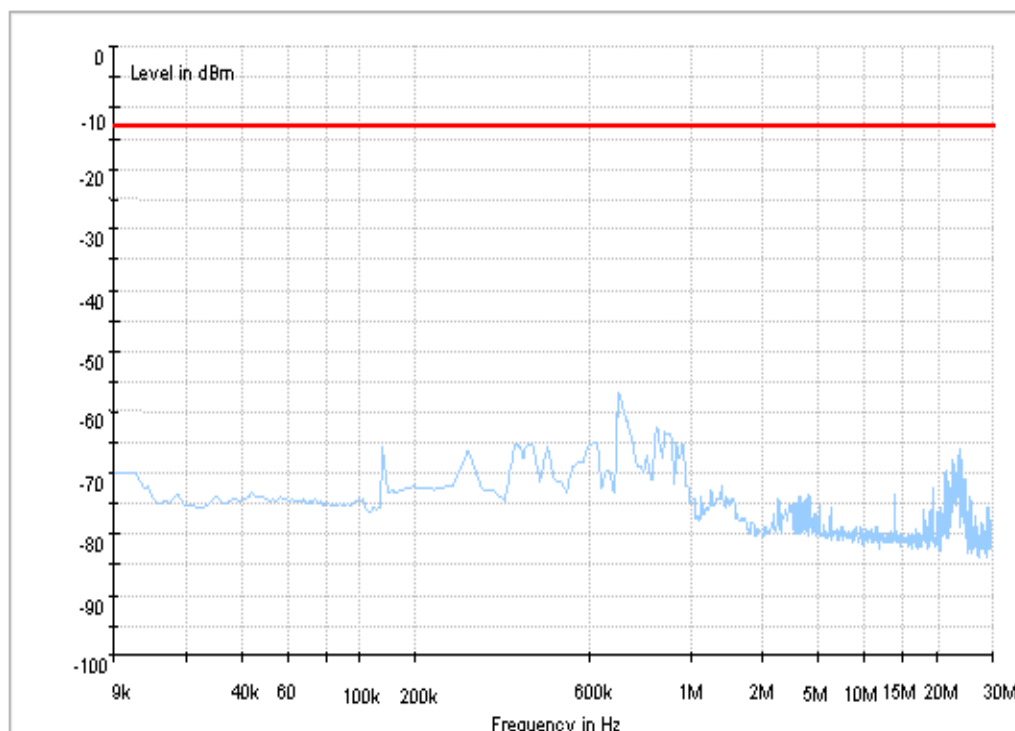
Copy of FCC PART 22 GSM850_L



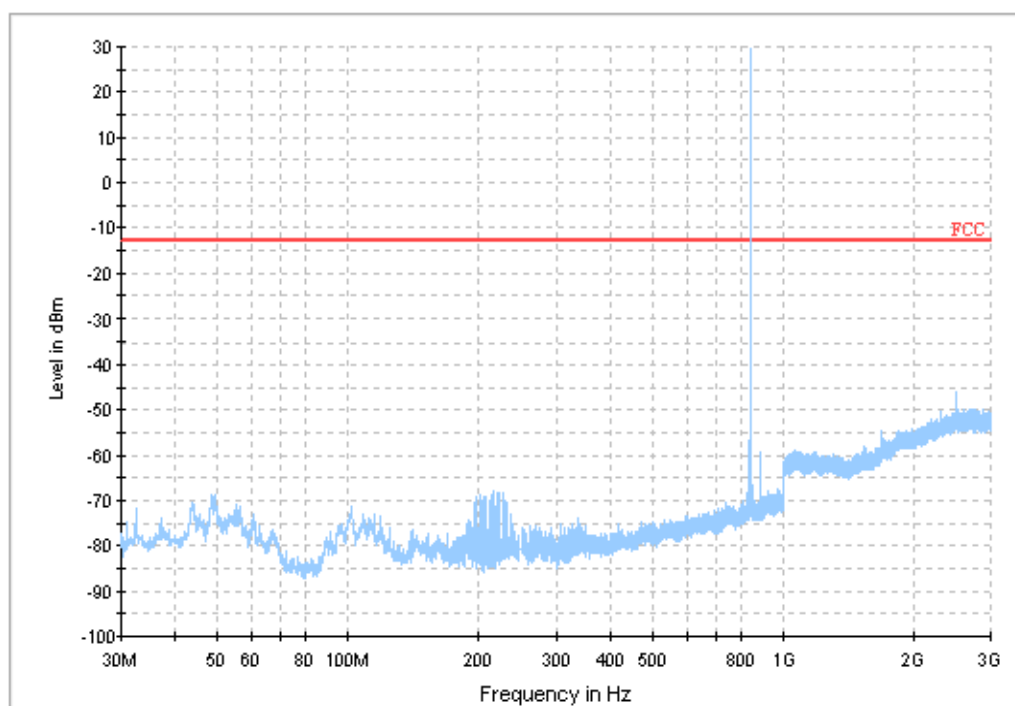
Copy of FCC PART 22 GSM850_H



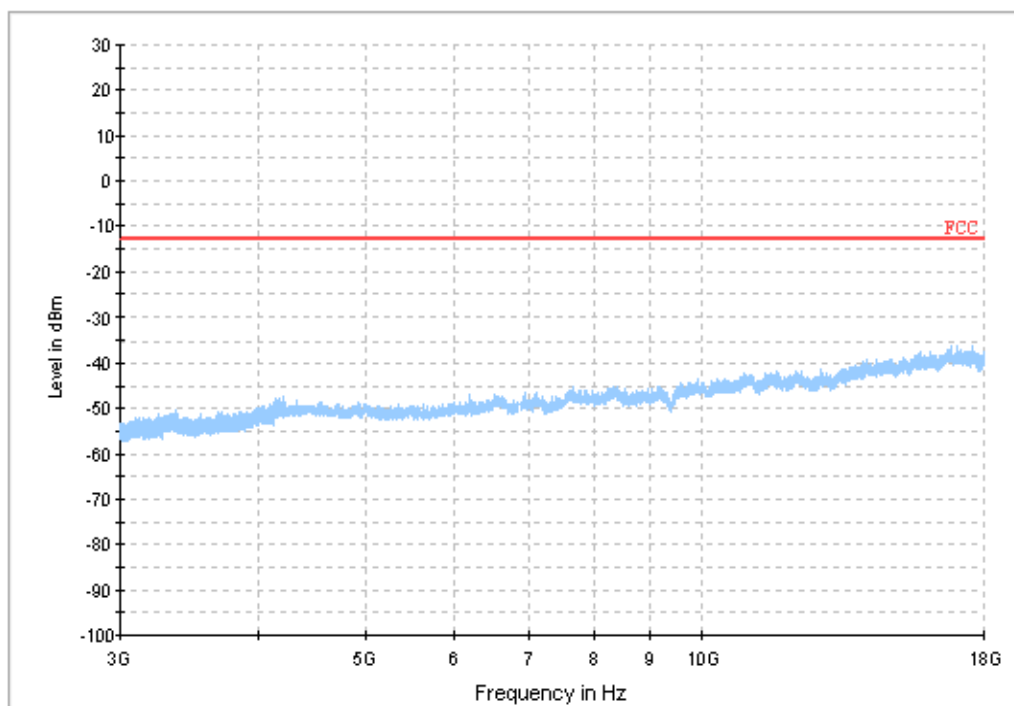
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

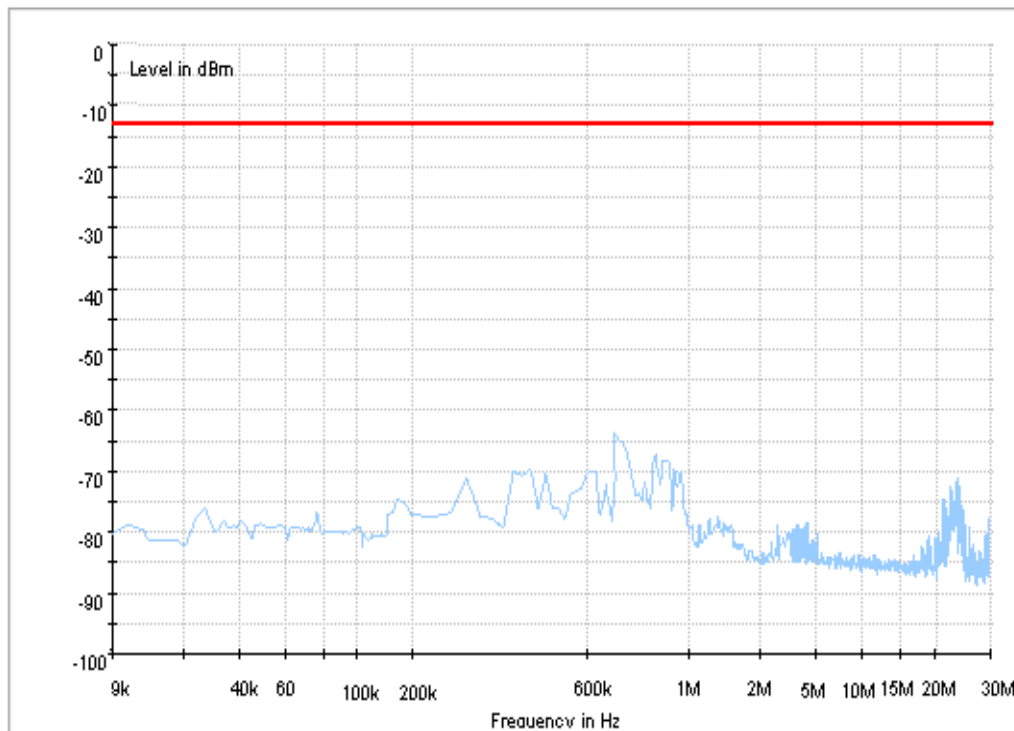


Copy of FCC PART22 GSM850_H

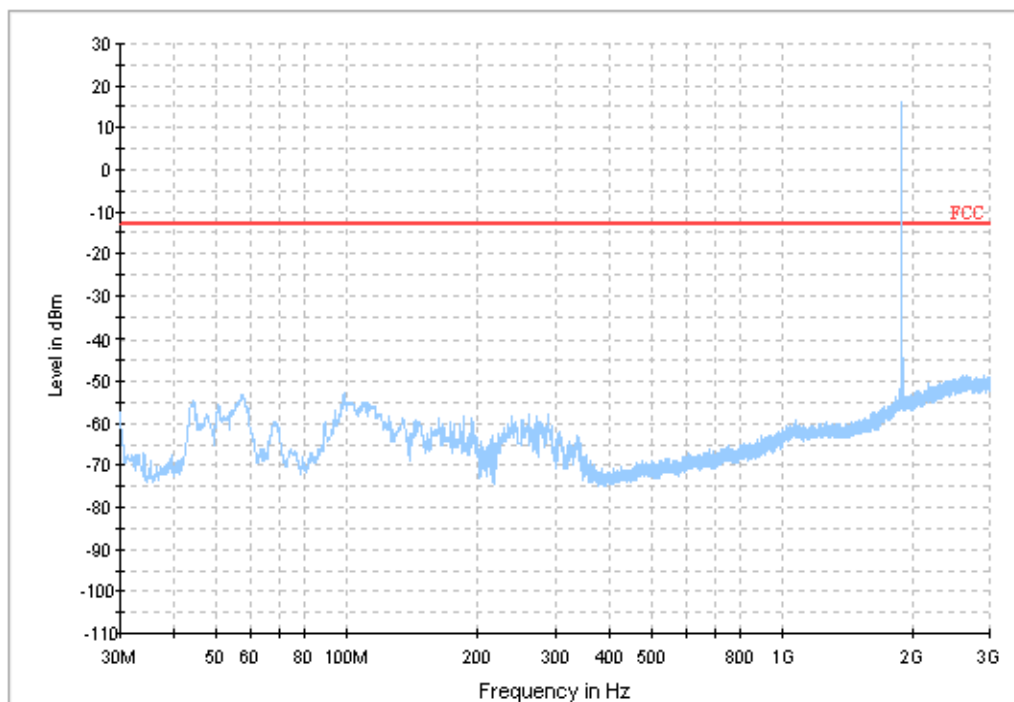


7.1.2 Test Band = GSM1900

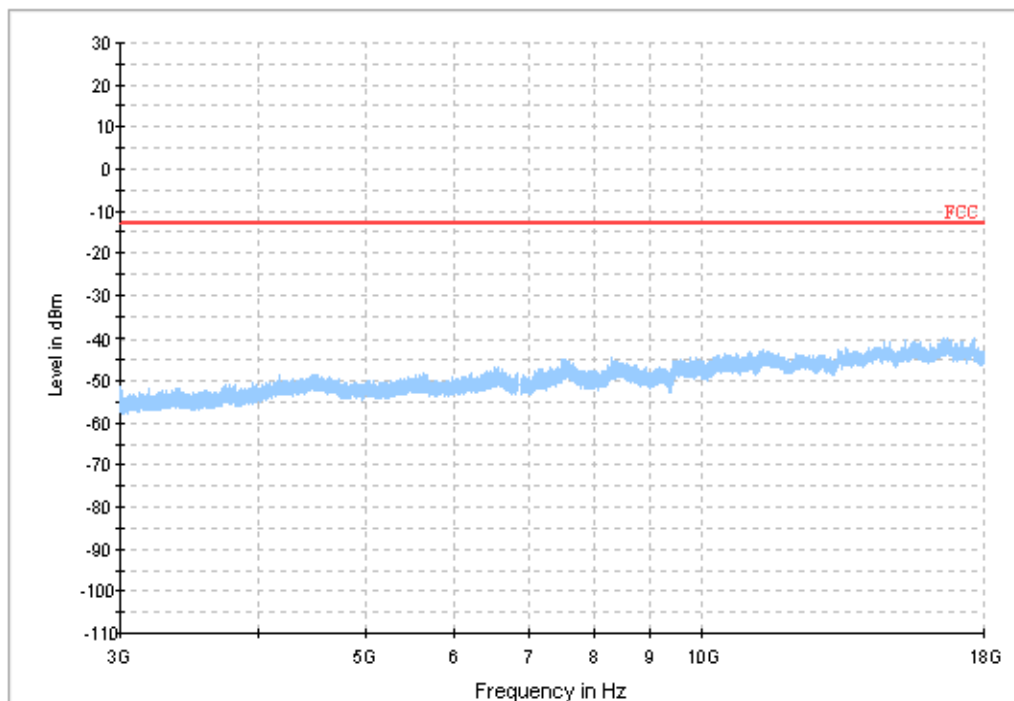
7.1.2.1 Test Mode = GSM/TM1

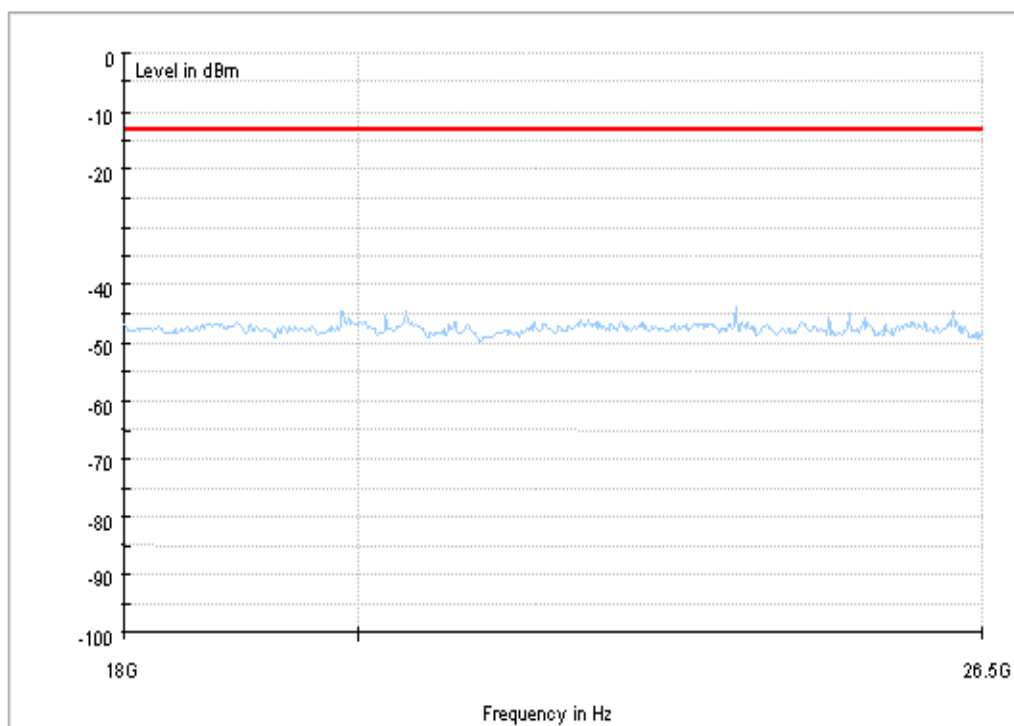


Copy of FCC PART24 GSM1900_L

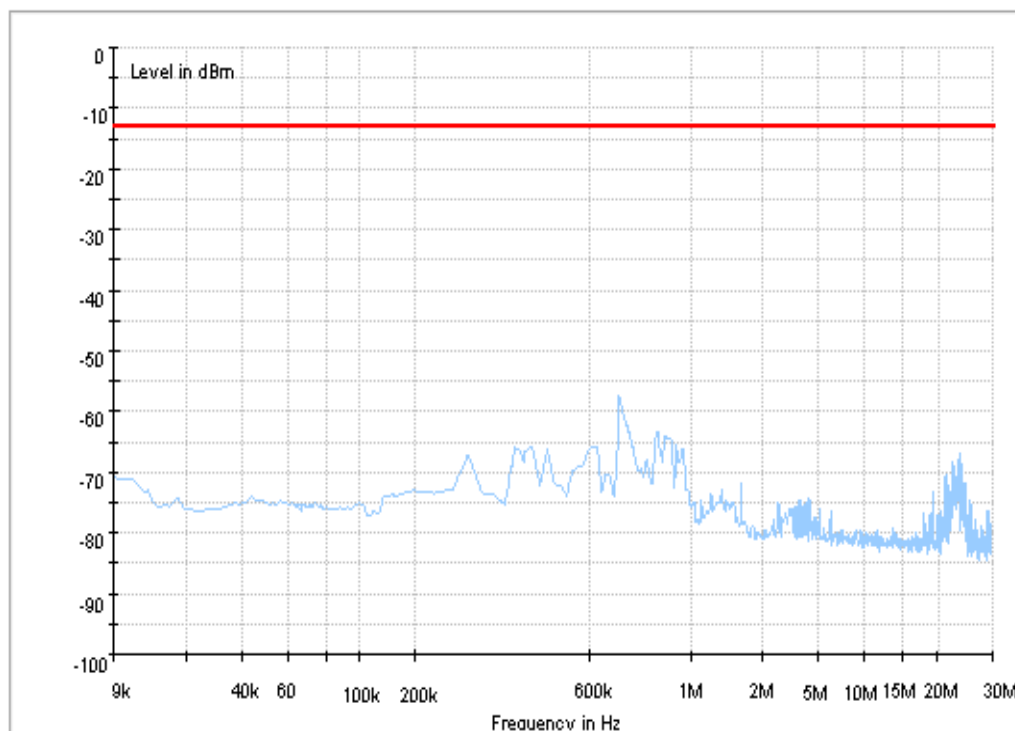


Copy of FCC PART24 GSM1900_H

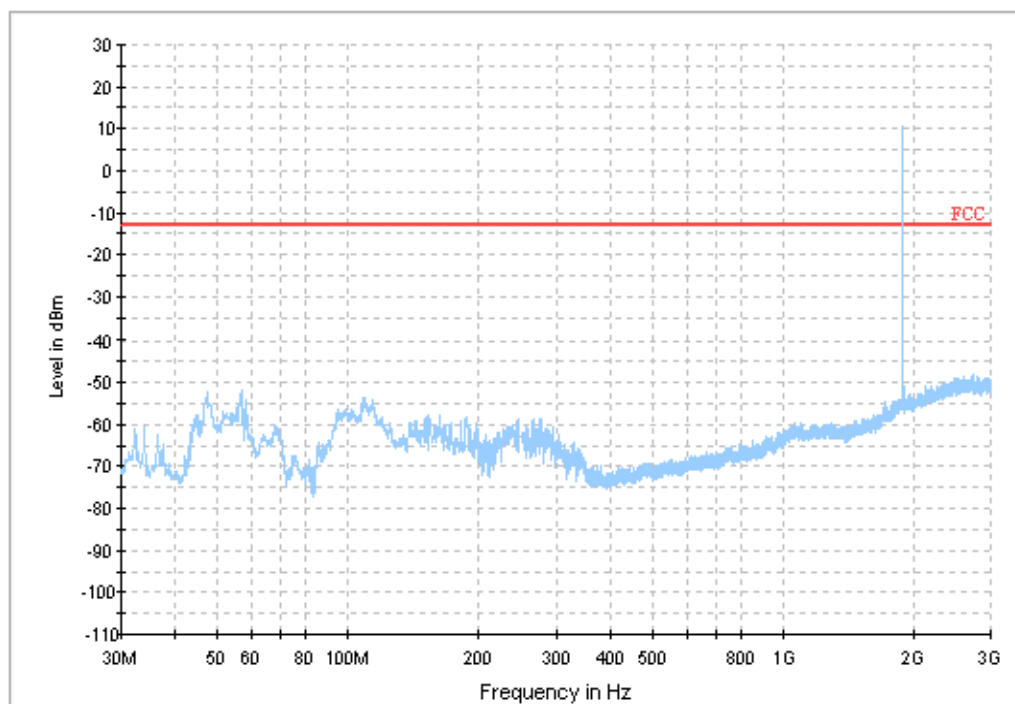




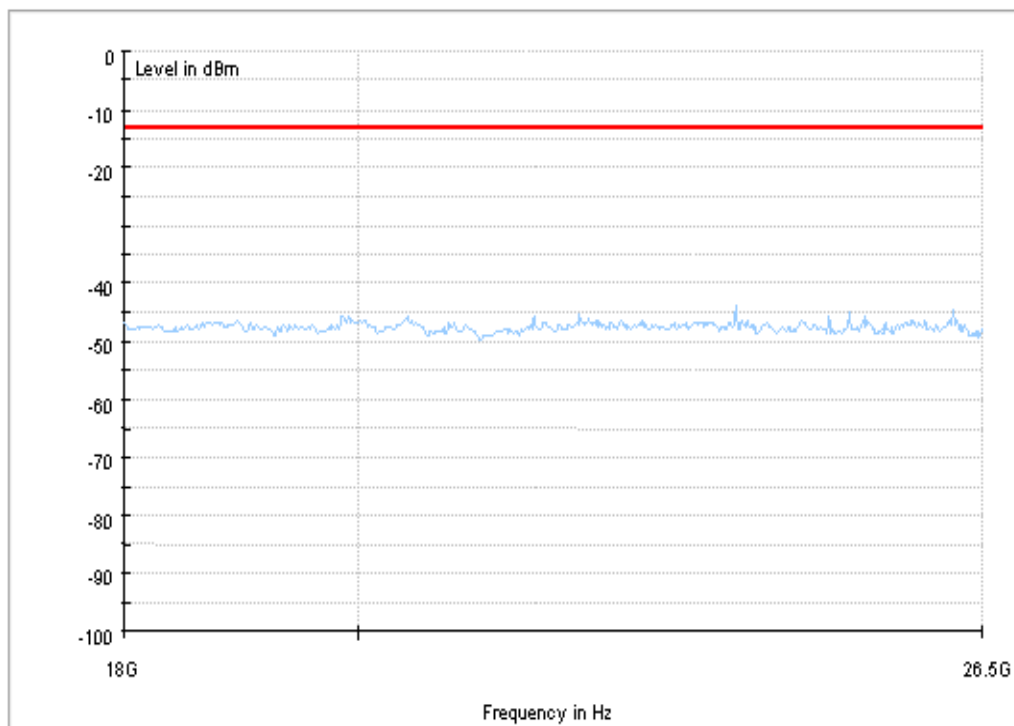
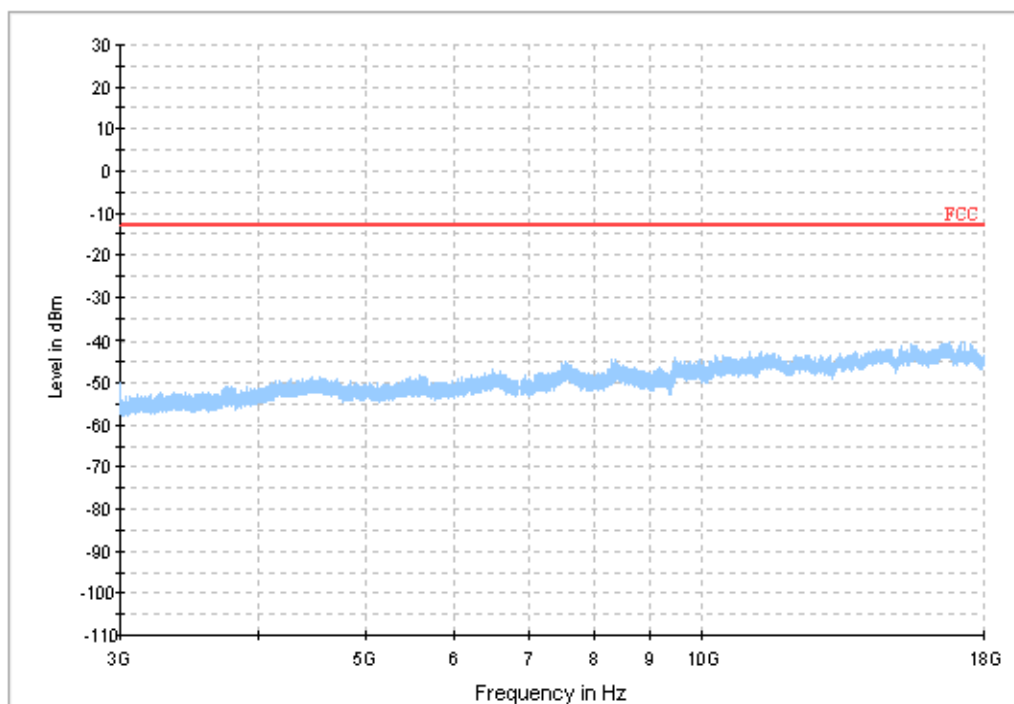
7.1.2.2 Test Mode = GSM/TM2



Copy of FCC PART24 GSM1900_L



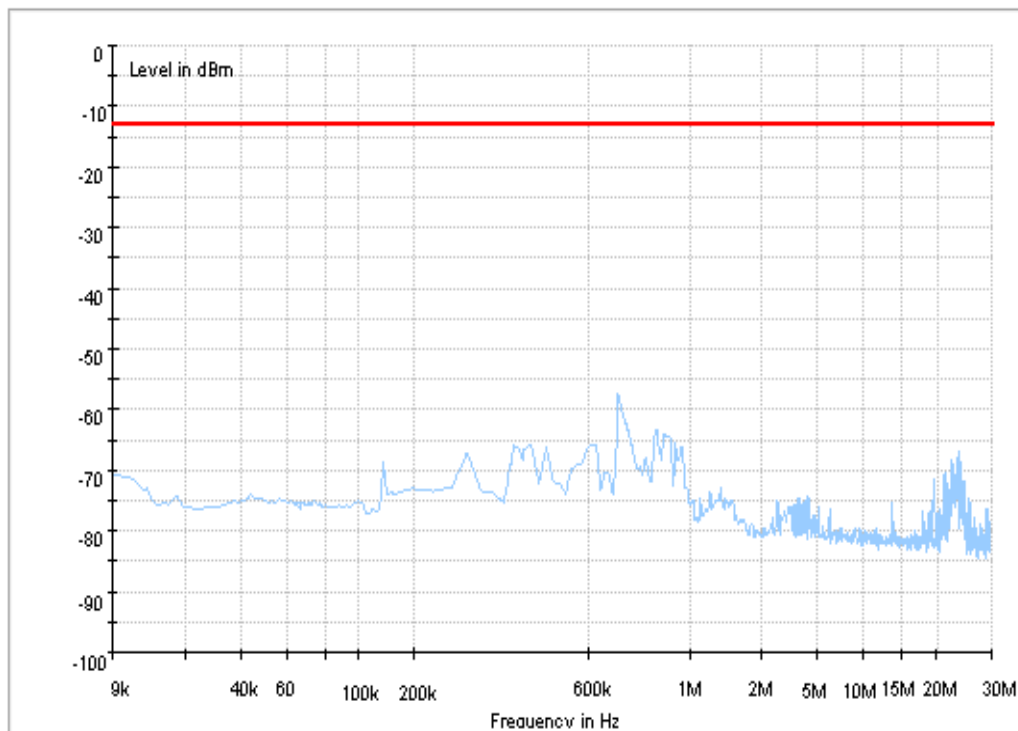
Copy of FCC PART24 GSM1900_H



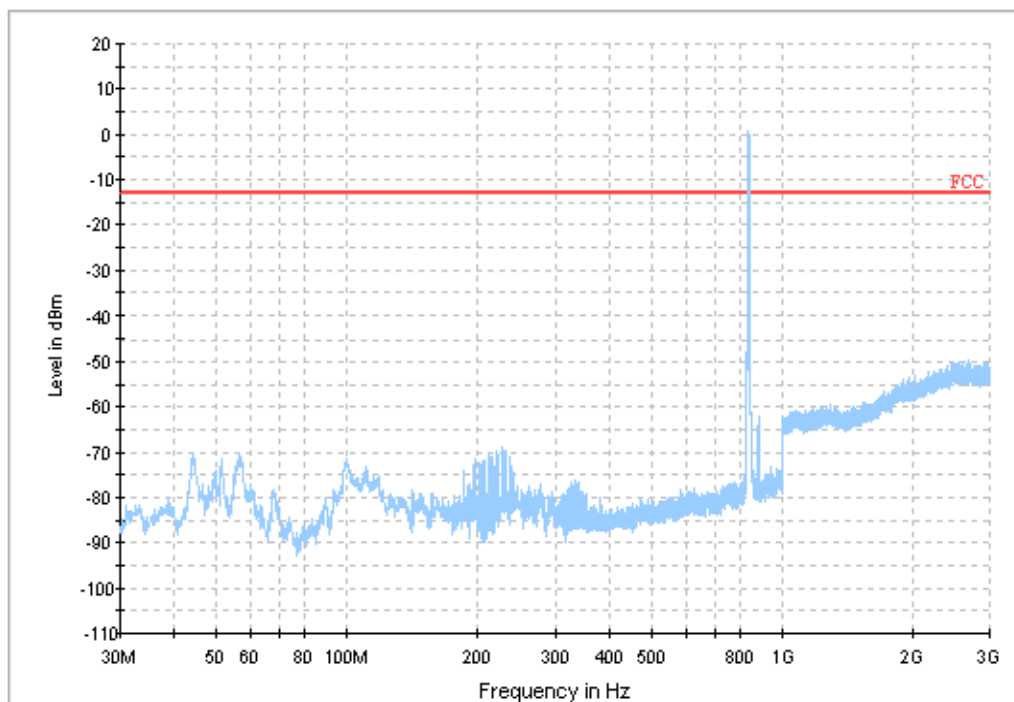
7.2 For UMTS

7.2.1 Test Band = WCDMA850

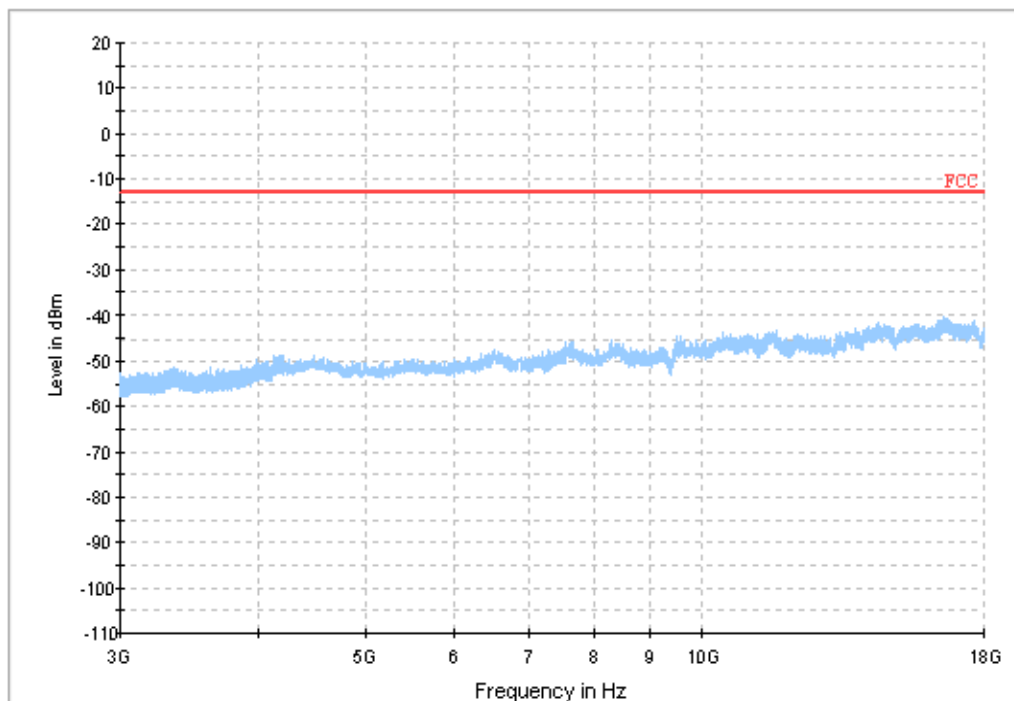
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

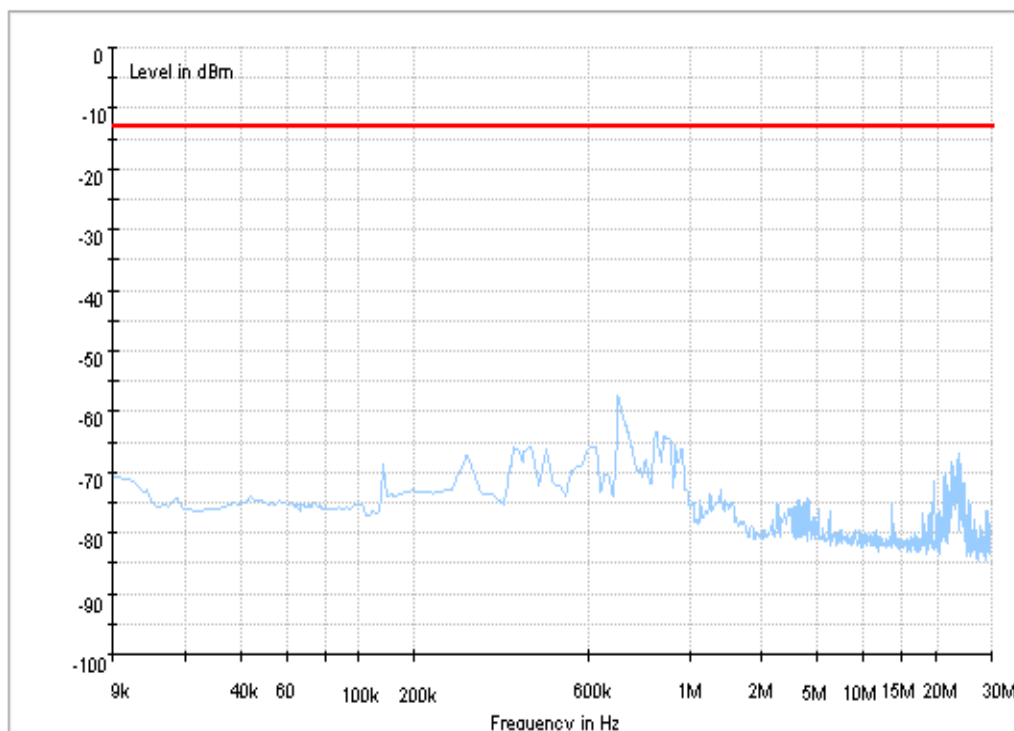


Copy of FCC PART22 WCDMA850_H

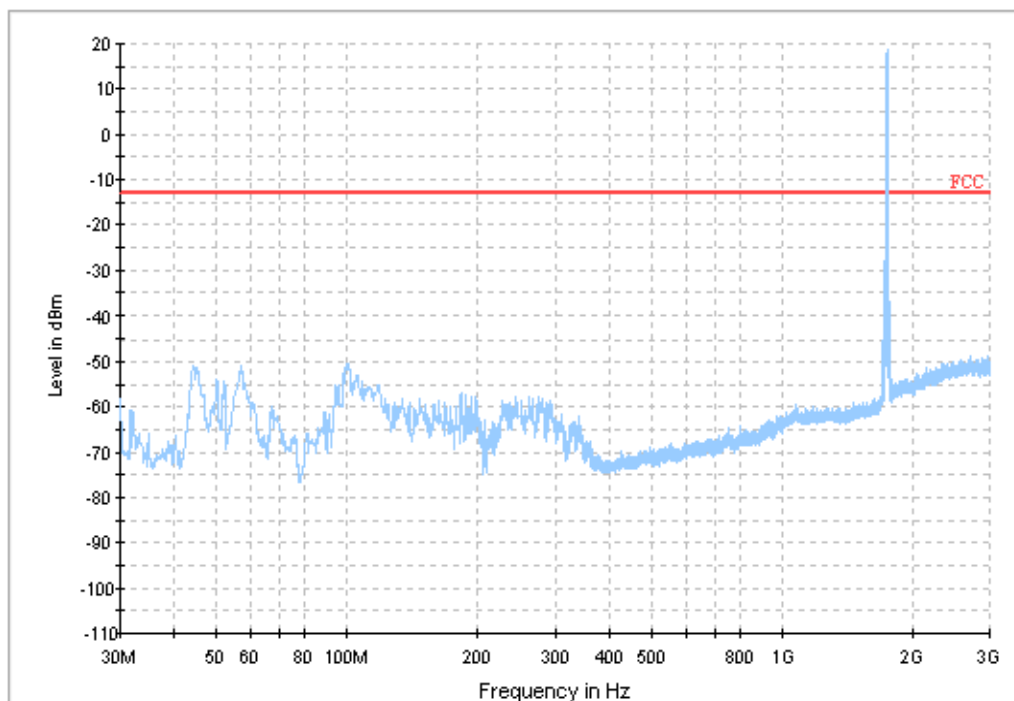


7.2.2 Test Band = WCDMA1700

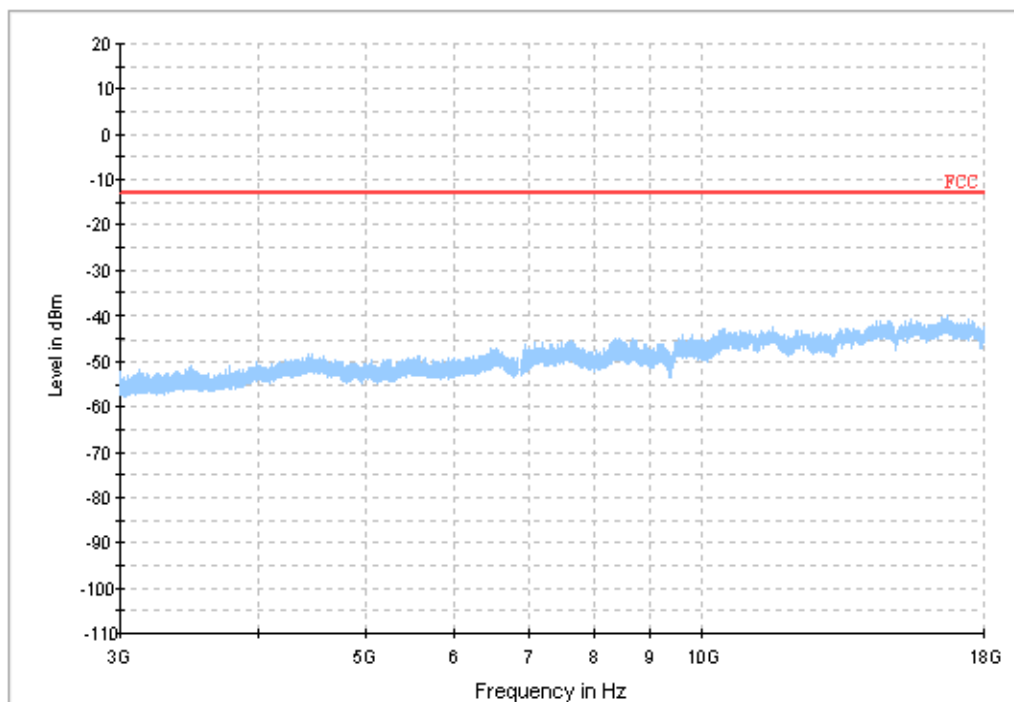
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART27 WCDMA1700_L

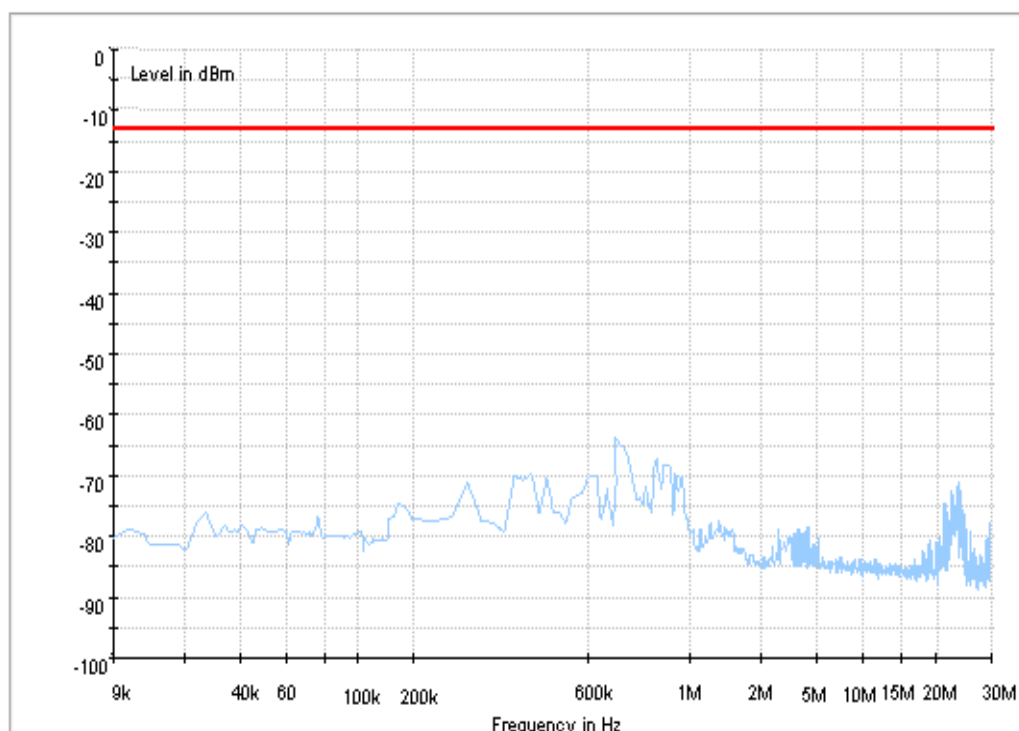


Copy of FCC PART27 WCDMA1700_H

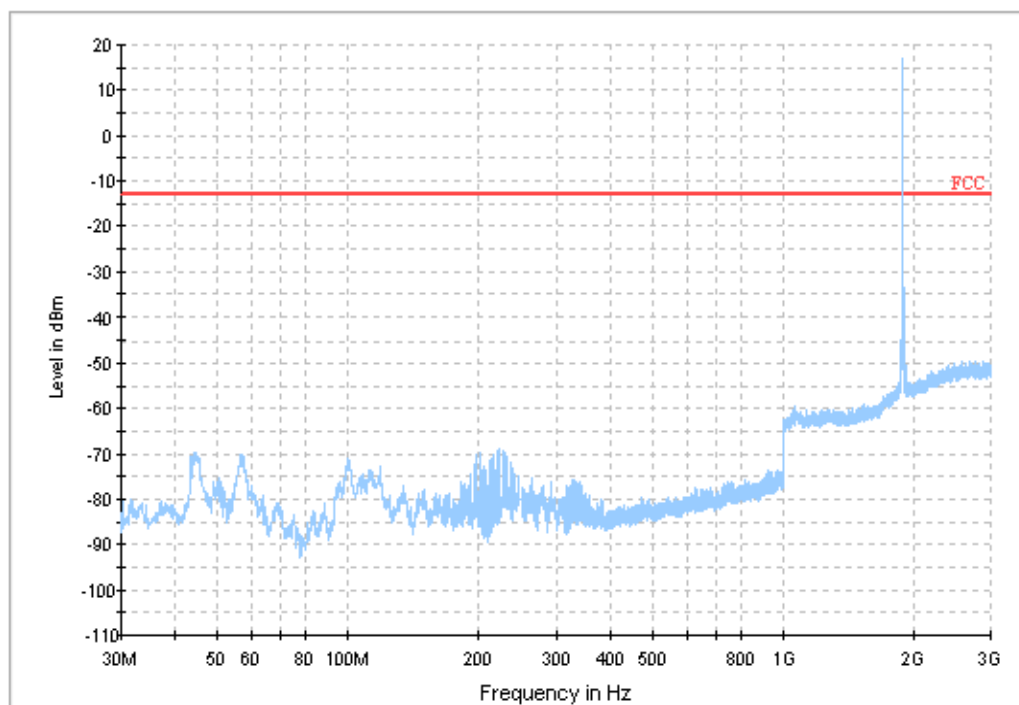


7.2.4 Test Band = WCDMA1900

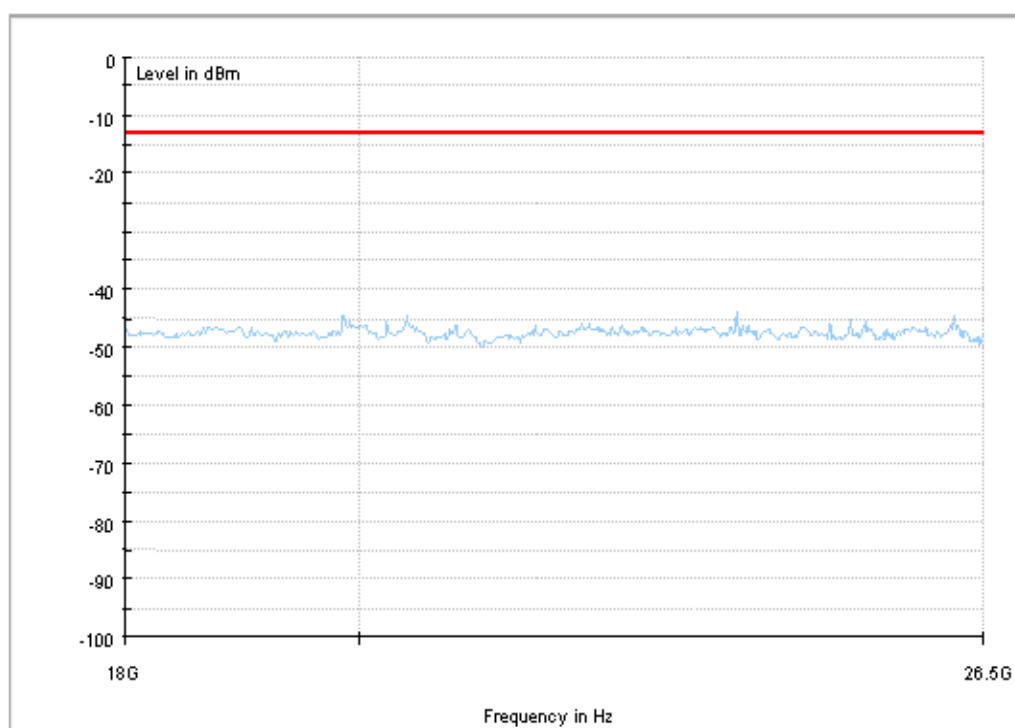
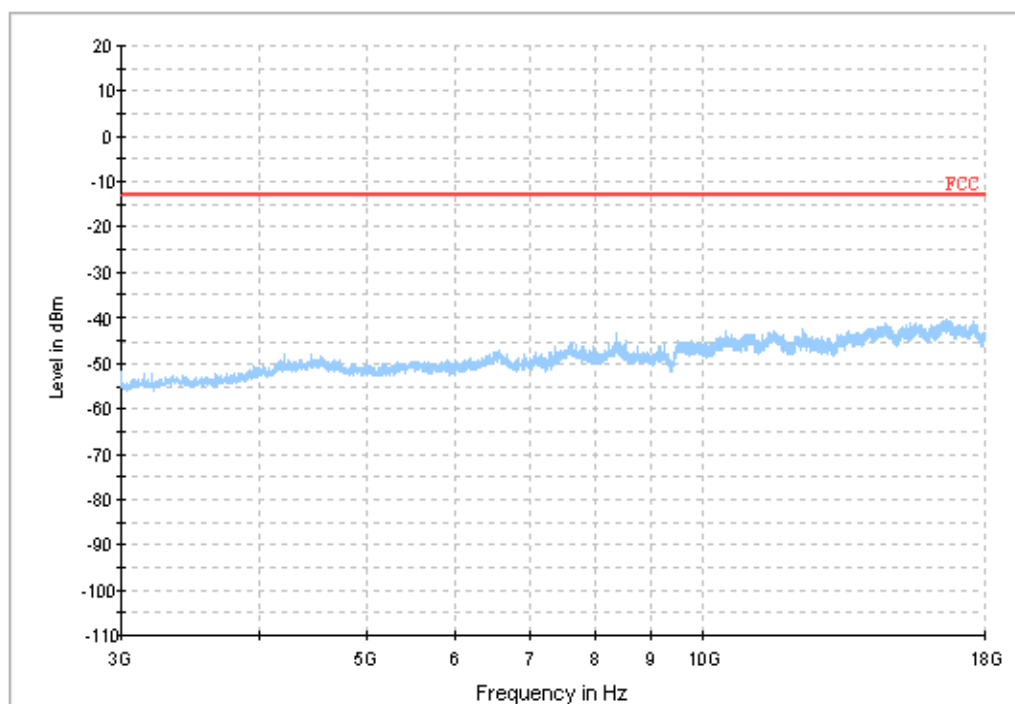
7.2.4.1 Test Mode = UMTS/TM1



Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H



8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-4.13	-0.00501	PASS
				VN	-3.23	-0.00392	PASS
				VH	-8.65	-0.0105	PASS
		MCH	TN	VL	-6.84	-0.00818	PASS
				VN	-8.01	-0.00957	PASS
				VH	-3.03	-0.00362	PASS
		HCH	TN	VL	-2.91	-0.00343	PASS
				VN	-13.69	-0.01613	PASS
				VH	-3.68	-0.00434	PASS
	GSM/TM2	LCH	TN	VL	0.19	0.00023	PASS
				VN	-3.84	-0.00466	PASS
				VH	-11.07	-0.01343	PASS
		MCH	TN	VL	-11.59	-0.01385	PASS
				VN	-15.43	-0.01844	PASS
				VH	-8.91	-0.01065	PASS
		HCH	TN	VL	-11.40	-0.01343	PASS
				VN	-9.01	-0.01061	PASS
				VH	-0.77	-0.00091	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-15.88	-0.00858	PASS
				VN	-20.66	-0.01117	PASS
				VH	-6.91	-0.00373	PASS
		MCH	TN	VL	-17.05	-0.00907	PASS
				VN	-13.88	-0.00738	PASS
				VH	-6.39	-0.0034	PASS
		HCH	TN	VL	-17.69	-0.00926	PASS
				VN	-12.72	-0.00666	PASS
				VH	-10.98	-0.00575	PASS
	GSM/TM2	LCH	TN	VL	-22.96	-0.01241	PASS
				VN	-5.49	-0.00297	PASS
				VH	-11.24	-0.00608	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	-13.11	-0.00697	PASS
				VN	-12.01	-0.00639	PASS
				VH	-22.08	-0.01174	PASS
		HCH	TN	VL	-13.24	-0.00693	PASS
				VN	-11.27	-0.0059	PASS
				VH	-22.41	-0.01173	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-9.62	-0.01167	PASS
				-20	-4.71	-0.00571	PASS
				-10	-2.78	-0.00337	PASS
				0	2.45	0.00297	PASS
				10	-3.94	-0.00478	PASS
				20	-7.68	-0.00932	PASS
				30	-10.33	-0.01253	PASS
				40	-2.32	-0.00281	PASS
				50	-3.49	-0.00423	PASS
		MCH	VN	-30	-7.88	-0.00942	PASS
				-20	-2.00	-0.00239	PASS
				-10	-6.33	-0.00757	PASS
				0	-2.07	-0.00247	PASS
				10	0.90	0.00108	PASS
				20	-3.94	-0.00471	PASS
				30	-2.13	-0.00255	PASS
				40	-4.58	-0.00547	PASS
				50	-6.20	-0.00741	PASS
		HCH	VN	-30	-2.52	-0.00297	PASS
				-20	-6.84	-0.00806	PASS
				-10	-7.81	-0.0092	PASS
				0	-3.75	-0.00442	PASS
				10	-1.74	-0.00205	PASS
				20	-7.75	-0.00913	PASS
				30	-11.75	-0.01384	PASS
				40	-8.33	-0.00981	PASS
				50	-2.32	-0.00273	PASS
	GSM/TM2	LCH	VN	-30	-7.17	-0.0087	PASS
				-20	-11.36	-0.01378	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	-8.33	-0.01011	PASS
				0	-7.43	-0.00901	PASS
				10	-8.36	-0.01014	PASS
				20	-12.43	-0.01508	PASS
				30	-7.55	-0.00916	PASS
				40	-11.72	-0.01422	PASS
				50	0.84	0.00102	PASS
		MCH	VN	-30	-5.68	-0.00679	PASS
				-20	-11.01	-0.01316	PASS
				-10	1.97	0.00235	PASS
				0	-10.04	-0.012	PASS
				10	-15.37	-0.01837	PASS
				20	-2.36	-0.00282	PASS
				30	-7.94	-0.00949	PASS
				40	-11.62	-0.01389	PASS
				50	-5.36	-0.00641	PASS
		HCH	VN	-30	-3.29	-0.00388	PASS
				-20	-3.20	-0.00377	PASS
				-10	-12.20	-0.01437	PASS
				0	-7.04	-0.00829	PASS
				10	-3.75	-0.00442	PASS
				20	-4.68	-0.00551	PASS
				30	-9.17	-0.0108	PASS
				40	-6.91	-0.00814	PASS
				50	-1.45	-0.00171	PASS
GSM1900	GSM/TM1	LCH	VN	-30	3.68	0.00199	PASS
				-20	-9.81	-0.0053	PASS
				-10	-14.40	-0.00778	PASS
				0	2.32	0.00125	PASS
				10	-12.40	-0.0067	PASS
				20	-3.29	-0.00178	PASS
				30	-5.49	-0.00297	PASS
				40	-15.43	-0.00834	PASS
				50	-3.81	-0.00206	PASS
		MCH	VN	-30	-17.31	-0.00921	PASS
				-20	-9.36	-0.00498	PASS
				-10	-3.23	-0.00172	PASS
				0	-6.78	-0.00361	PASS
				10	-11.56	-0.00615	PASS
				20	-6.52	-0.00347	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	-10.27	-0.00546	PASS
				40	-15.43	-0.00821	PASS
				50	-19.37	-0.0103	PASS
		HCH	VN	-30	-12.79	-0.0067	PASS
				-20	-11.69	-0.00612	PASS
				-10	-14.01	-0.00734	PASS
				0	-11.56	-0.00605	PASS
				10	-19.89	-0.01041	PASS
				20	-2.97	-0.00156	PASS
				30	-8.72	-0.00457	PASS
				40	-16.92	-0.00886	PASS
				50	-18.66	-0.00977	PASS
	GSM/TM2	LCH	VN	-30	-17.85	-0.00965	PASS
				-20	-15.21	-0.00822	PASS
				-10	-16.72	-0.00904	PASS
				0	-12.98	-0.00702	PASS
				10	-8.30	-0.00449	PASS
				20	-11.27	-0.00609	PASS
				30	-17.01	-0.00919	PASS
				40	-9.94	-0.00537	PASS
				50	-12.30	-0.00665	PASS
		MCH	VN	-30	-10.01	-0.00532	PASS
				-20	-15.34	-0.00816	PASS
				-10	-22.50	-0.01197	PASS
				0	-21.05	-0.0112	PASS
				10	-14.17	-0.00754	PASS
				20	-23.44	-0.01247	PASS
				30	-23.92	-0.01272	PASS
				40	-13.56	-0.00721	PASS
				50	-22.05	-0.01173	PASS
		HCH	VN	-30	-8.27	-0.00433	PASS
				-20	-9.14	-0.00479	PASS
				-10	-18.08	-0.00947	PASS
				0	-10.33	-0.00541	PASS
				10	-10.82	-0.00567	PASS
				20	-12.07	-0.00632	PASS
				30	-14.85	-0.00778	PASS
				40	-18.11	-0.00948	PASS
				50	-17.92	-0.00938	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]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	0.40	0.00048	PASS
				VN	3.97	0.0048	PASS
				VH	4.10	0.00496	PASS
		MCH	TN	VL	-1.07	-0.00128	PASS
				VN	0.93	0.00111	PASS
				VH	-2.04	-0.00244	PASS
		HCH	TN	VL	-3.14	-0.00371	PASS
				VN	-2.09	-0.00247	PASS
				VH	-3.74	-0.00442	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	11.84	0.00691	PASS
				VN	13.61	0.00795	PASS
				VH	9.55	0.00558	PASS
		MCH	TN	VL	5.04	0.00291	PASS
				VN	6.39	0.00369	PASS
				VH	7.32	0.00422	PASS
		HCH	TN	VL	-19.32	-0.01102	PASS
				VN	-20.10	-0.01147	PASS
				VH	-20.69	-0.01181	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	0.76	0.00041	PASS
				VN	-0.61	-0.00033	PASS
				VH	-1.54	-0.00083	PASS
		MCH	TN	VL	-7.77	-0.00413	PASS
				VN	-4.39	-0.00234	PASS
				VH	-4.33	-0.0023	PASS
		HCH	TN	VL	-10.89	-0.00571	PASS
				VN	-12.45	-0.00653	PASS
				VH	-11.20	-0.00587	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]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	0.87	0.00105	PASS
				-20	-0.41	-0.0005	PASS
				-10	1.19	0.00144	PASS
				0	2.67	0.00323	PASS
				10	2.18	0.00264	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				20	1.30	0.00157	PASS
				30	2.66	0.00322	PASS
				40	3.08	0.00373	PASS
				50	-0.43	-0.00052	PASS
		MCH	VN	-30	0.12	0.00014	PASS
				-20	2.20	0.00263	PASS
				-10	1.86	0.00222	PASS
				0	3.02	0.00361	PASS
				10	0.41	0.00049	PASS
				20	-2.38	-0.00285	PASS
				30	-0.26	-0.00031	PASS
				40	0.17	0.0002	PASS
				50	-0.58	-0.00069	PASS
		HCH	VN	-30	-2.55	-0.00301	PASS
				-20	-3.92	-0.00463	PASS
				-10	-3.68	-0.00435	PASS
				0	-2.18	-0.00258	PASS
				10	-4.75	-0.00561	PASS
				20	-0.20	-0.00024	PASS
				30	-4.49	-0.0053	PASS
				40	-1.91	-0.00226	PASS
				50	-3.36	-0.00397	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	12.63	0.00738	PASS
				-20	13.81	0.00806	PASS
				-10	14.42	0.00842	PASS
				0	13.50	0.00788	PASS
				10	13.00	0.00759	PASS
				20	11.35	0.00663	PASS
				30	14.89	0.0087	PASS
				40	17.30	0.0101	PASS
				50	12.19	0.00712	PASS
		MCH	VN	-30	3.37	0.00195	PASS
				-20	6.52	0.00376	PASS
				-10	5.72	0.0033	PASS
				0	7.80	0.0045	PASS
				10	4.38	0.00253	PASS
				20	5.37	0.0031	PASS
				30	6.01	0.00347	PASS
				40	6.23	0.0036	PASS
				50	3.91	0.00226	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	-23.22	-0.01325	PASS
				-20	-19.90	-0.01135	PASS
				-10	-22.69	-0.01295	PASS
				0	-24.17	-0.01379	PASS
				10	-19.18	-0.01094	PASS
				20	-19.78	-0.01129	PASS
				30	-20.03	-0.01143	PASS
				40	-22.75	-0.01298	PASS
				50	-19.53	-0.01114	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	1.37	0.00074	PASS
				-20	-0.02	-0.00001	PASS
				-10	0.27	0.00015	PASS
				0	0.49	0.00026	PASS
				10	1.16	0.00063	PASS
				20	-0.61	-0.00033	PASS
				30	-6.88	-0.00371	PASS
				40	2.98	0.00161	PASS
				50	-1.56	-0.00084	PASS
		MCH	VN	-30	-4.84	-0.00257	PASS
				-20	-7.23	-0.00385	PASS
				-10	-3.69	-0.00196	PASS
				0	-5.23	-0.00278	PASS
				10	-5.22	-0.00278	PASS
				20	-4.88	-0.0026	PASS
				30	-5.10	-0.00271	PASS
				40	-5.26	-0.0028	PASS
				50	-5.57	-0.00296	PASS
		HCH	VN	-30	-16.42	-0.00861	PASS
				-20	-17.79	-0.00933	PASS
				-10	-11.89	-0.00623	PASS
				0	-14.74	-0.00773	PASS
				10	-14.25	-0.00747	PASS
				20	-13.98	-0.00733	PASS
				30	-13.06	-0.00685	PASS
				40	-13.12	-0.00688	PASS
				50	-13.57	-0.00711	PASS

END