



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.02	30.97	38.5	PASS
		MCH	32.08	31.03	38.5	PASS
		HCH	32.09	31.04	38.5	PASS
	GSM/TM2	LCH	25.74	24.69	38.5	PASS
		MCH	25.70	24.65	38.5	PASS
		HCH	25.67	24.62	38.5	PASS
WCDMA850	UMTS/TM1	LCH	22.61	21.56	38.5	PASS
		MCH	22.71	21.66	38.5	PASS
		HCH	22.68	21.63	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.01	31.01	33	PASS
		MCH	28.68	30.68	33	PASS
		HCH	28.41	30.41	33	PASS
	GSM/TM2	LCH	24.51	26.51	33	PASS
		MCH	24.56	26.56	33	PASS
		HCH	24.64	26.64	33	PASS
WCDMA1900	UMTS/TM1	LCH	22.75	24.75	33	PASS
		MCH	22.30	24.3	33	PASS
		HCH	22.18	24.18	33	PASS



Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.13	13	PASS
		MCH	0.12	13	PASS
		HCH	0.14	13	PASS
	GSM/TM2	LCH	3.08	13	PASS
		MCH	3.23	13	PASS
		HCH	3.08	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	2.99	13	PASS
		MCH	2.87	13	PASS
		HCH	3.1	13	PASS

3Appendix_C: Modulation Characteristics

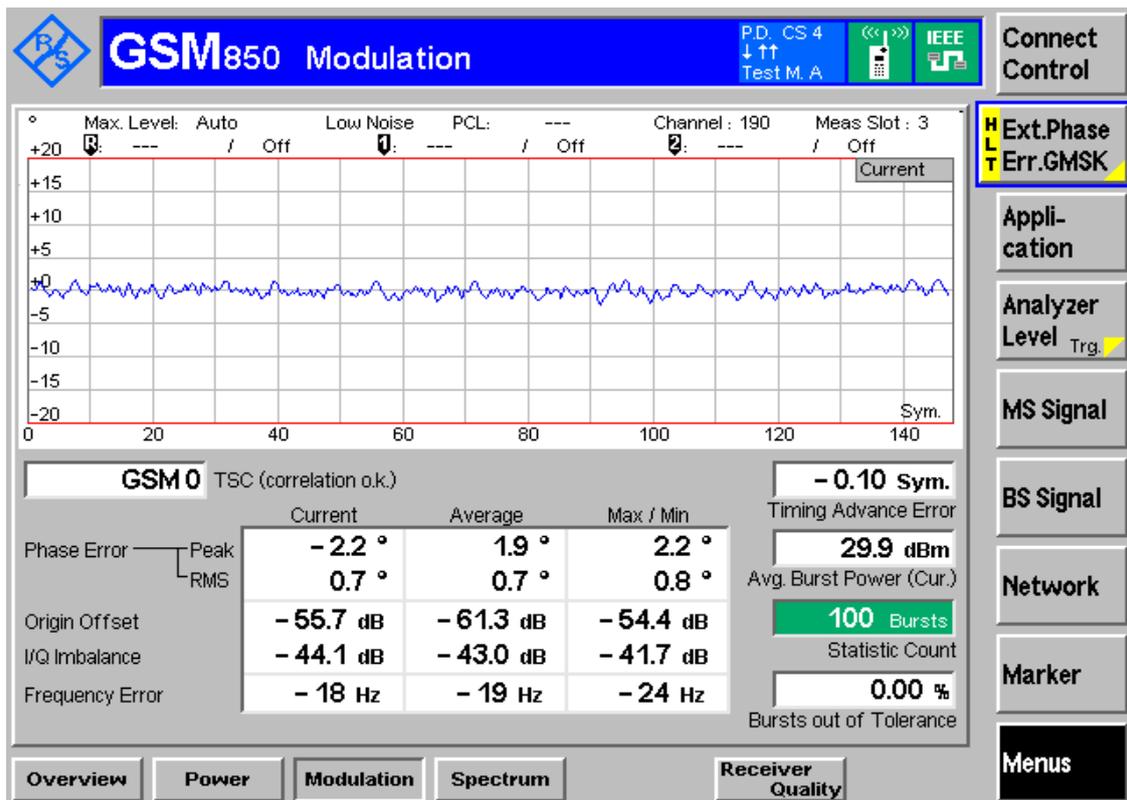
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

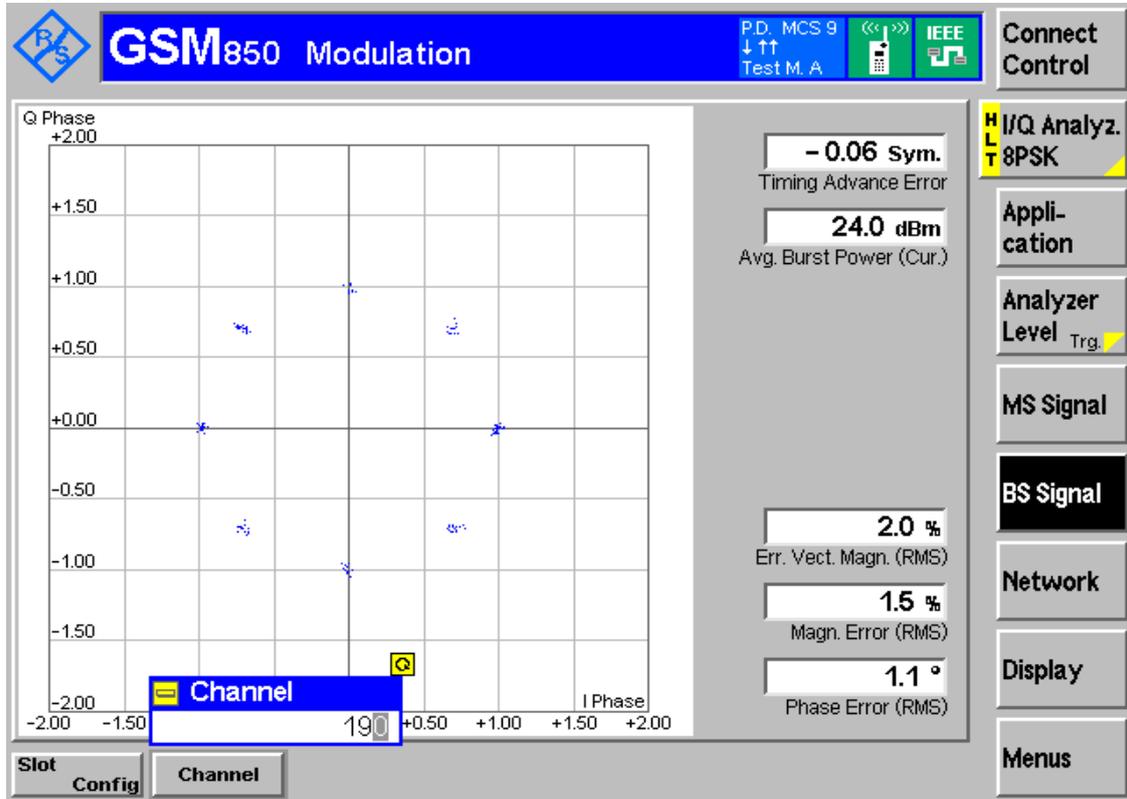
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

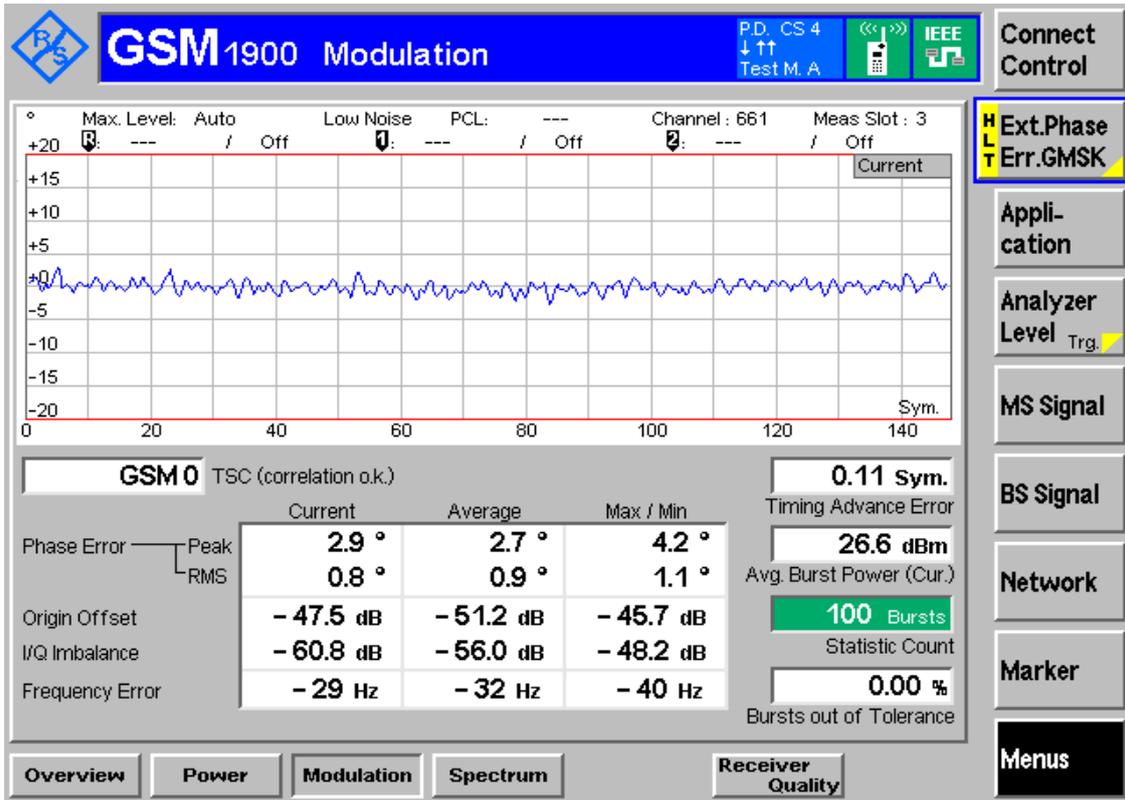
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

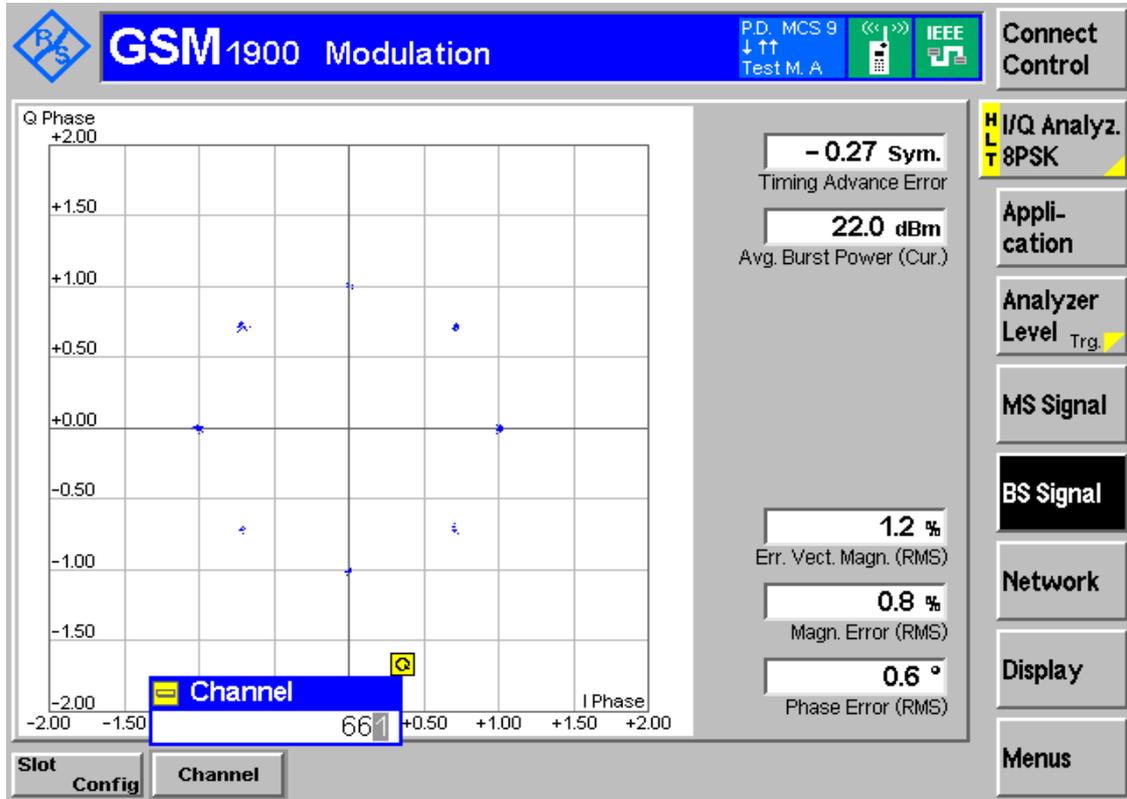
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

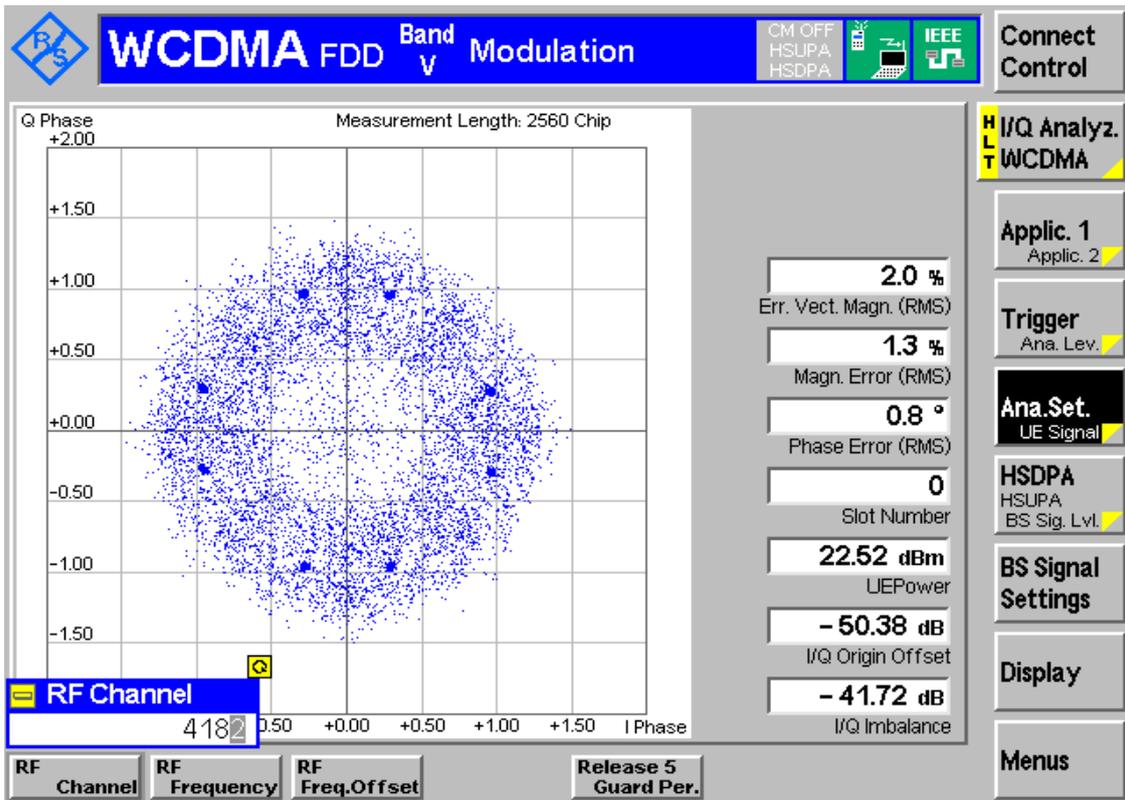


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

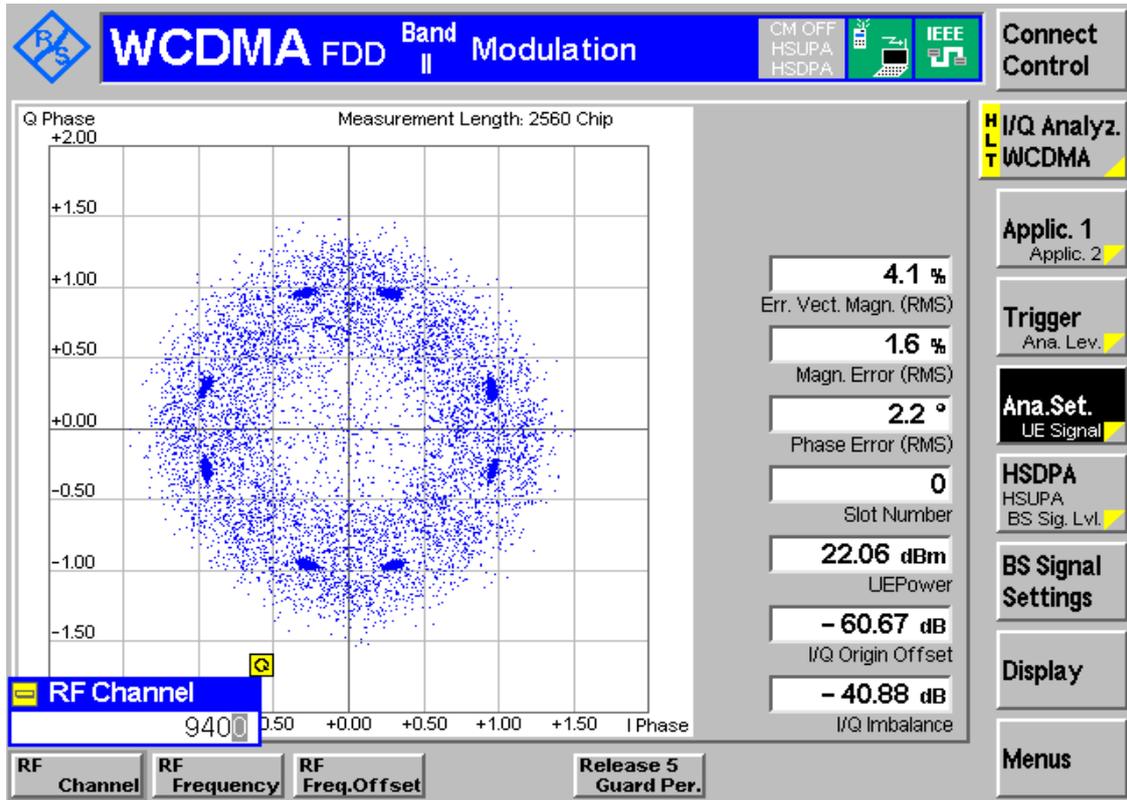
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	243.06	315.30	Pass
		MCH	242.50	308.00	Pass
		HCH	240.71	312.74	Pass
	GSM/TM2	LCH	231.72	302.73	Pass
		MCH	230.84	297.16	Pass
		HCH	242.78	295.09	Pass
GSM1900	GSM/TM1	LCH	243.97	311.63	Pass
		MCH	240.77	312.74	Pass
		HCH	242.71	315.38	Pass
	GSM/TM2	LCH	244.09	315.24	Pass
		MCH	244.06	312.95	Pass
		HCH	242.83	308.54	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.17	4.72	Pass
		MCH	4.17	4.72	Pass
		HCH	4.16	4.72	Pass
WCDMA1900	UMTS/TM1	LCH	4.17	4.72	Pass
		MCH	4.16	4.72	Pass
		HCH	4.16	4.72	Pass

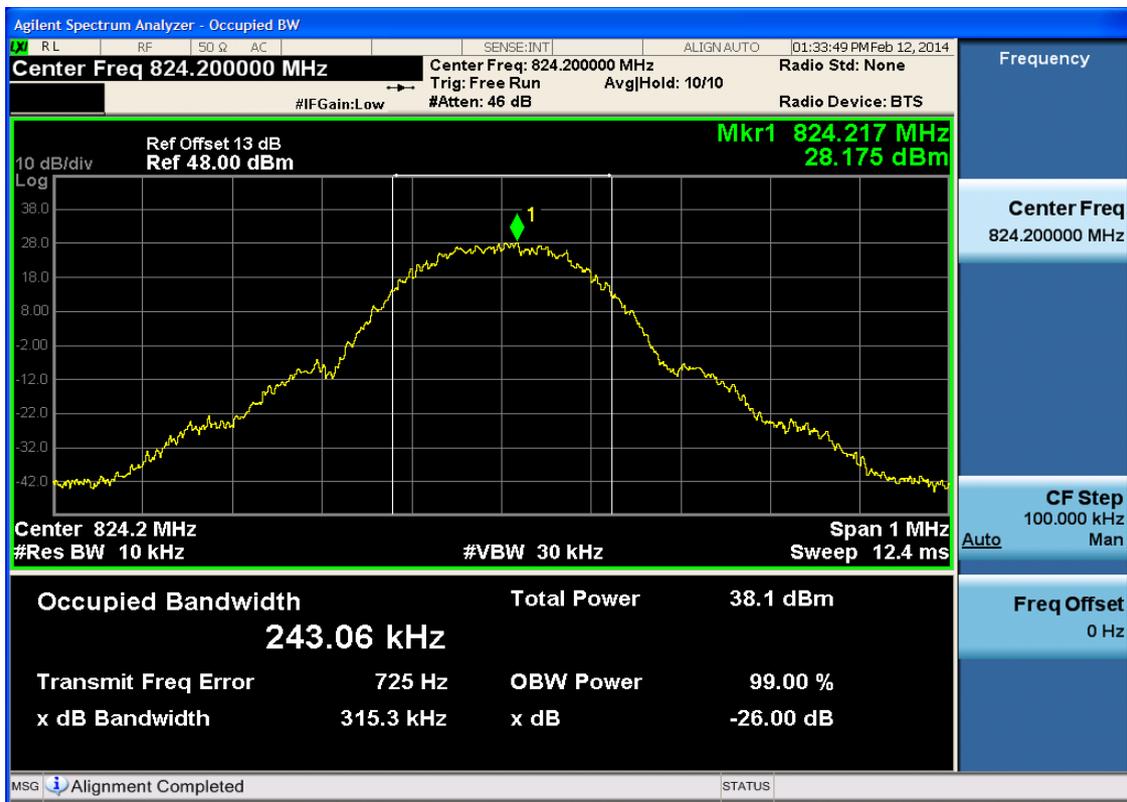
Part II - Test Plots

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4.1.1 Test Band = GSM850

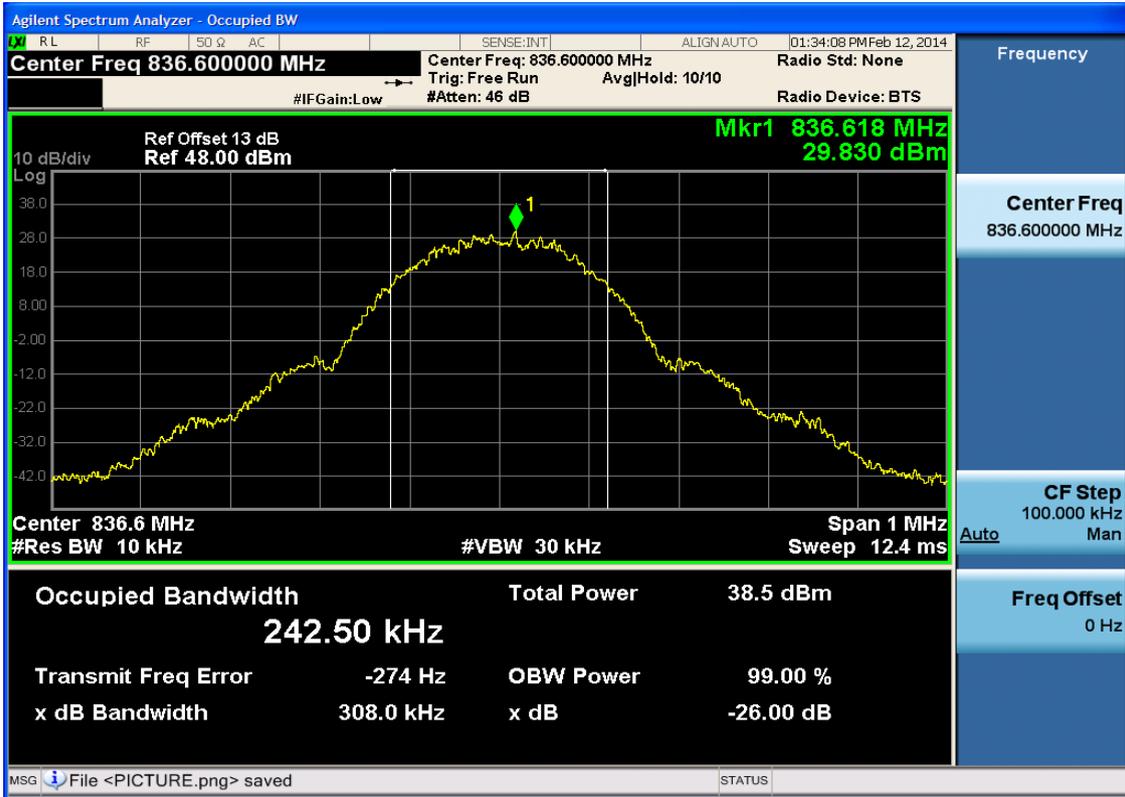
4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH



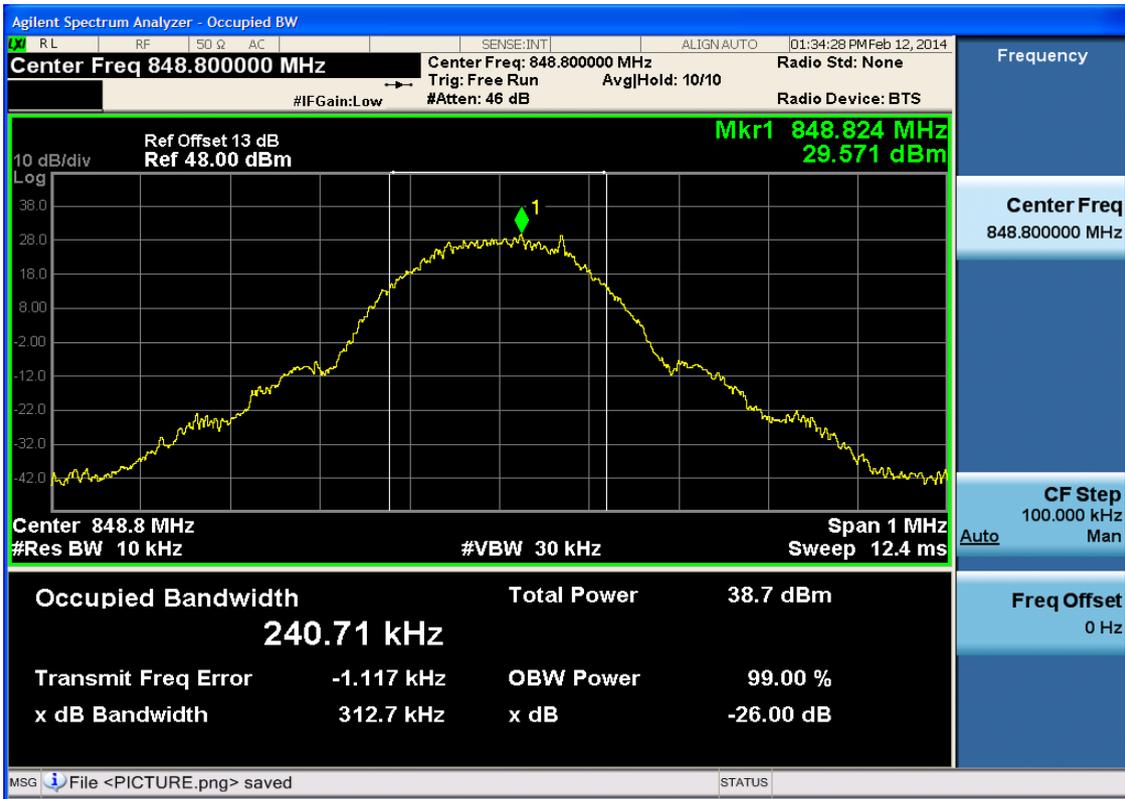


4.1.1.1.2 Test Channel = MCH





4.1.1.1.3 Test Channel = HCH





4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH

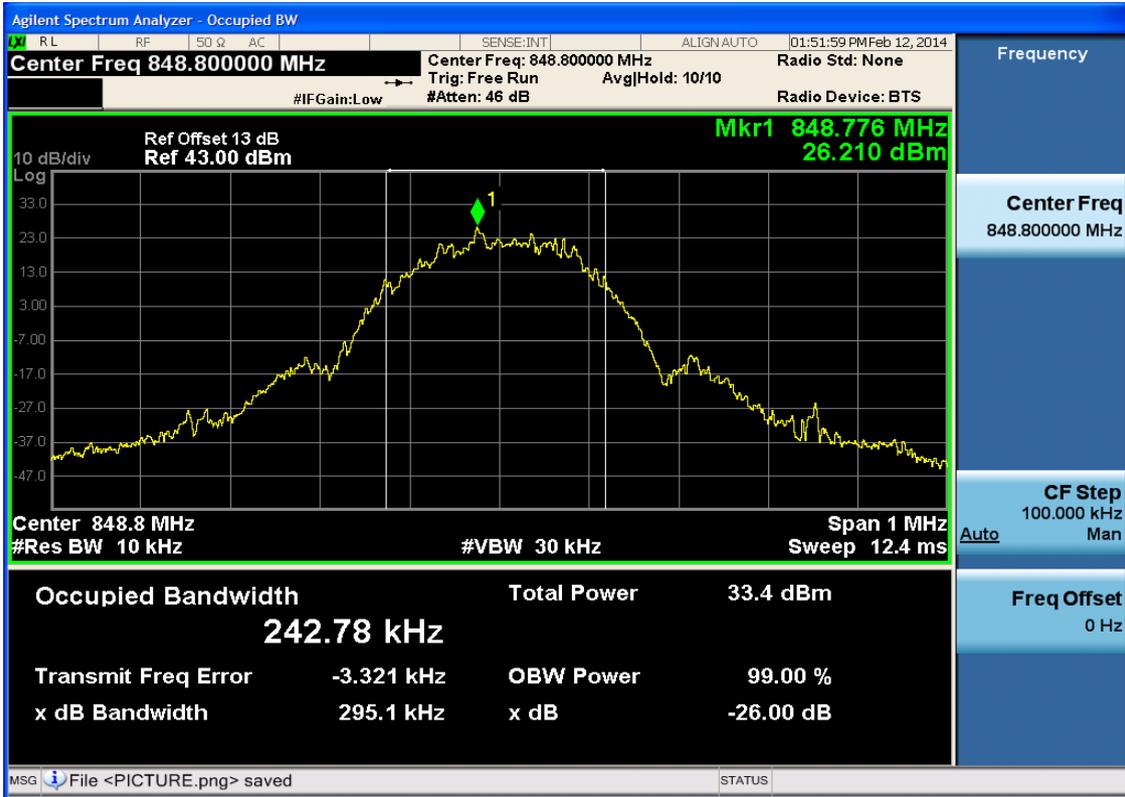




4.1.1.2.2 Test Channel = MCH



4.1.1.2.3 Test Channel = HCH





4.1.2 Test Band = GSM1900

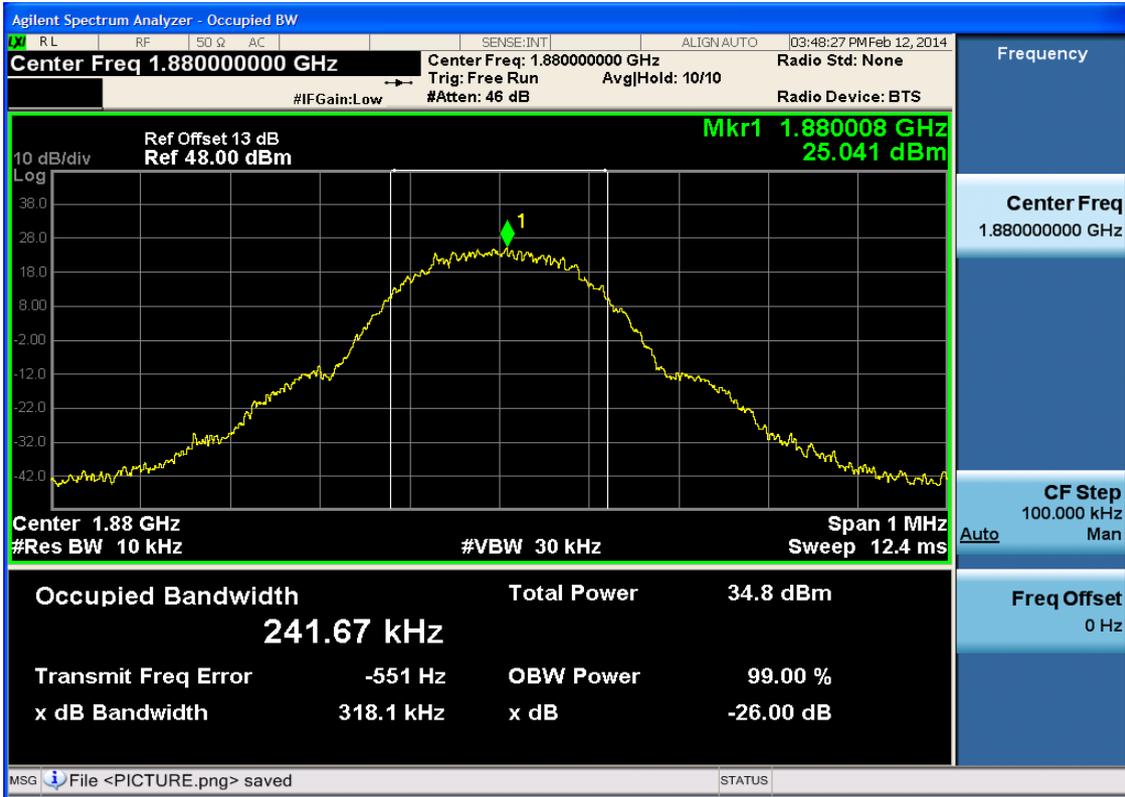
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



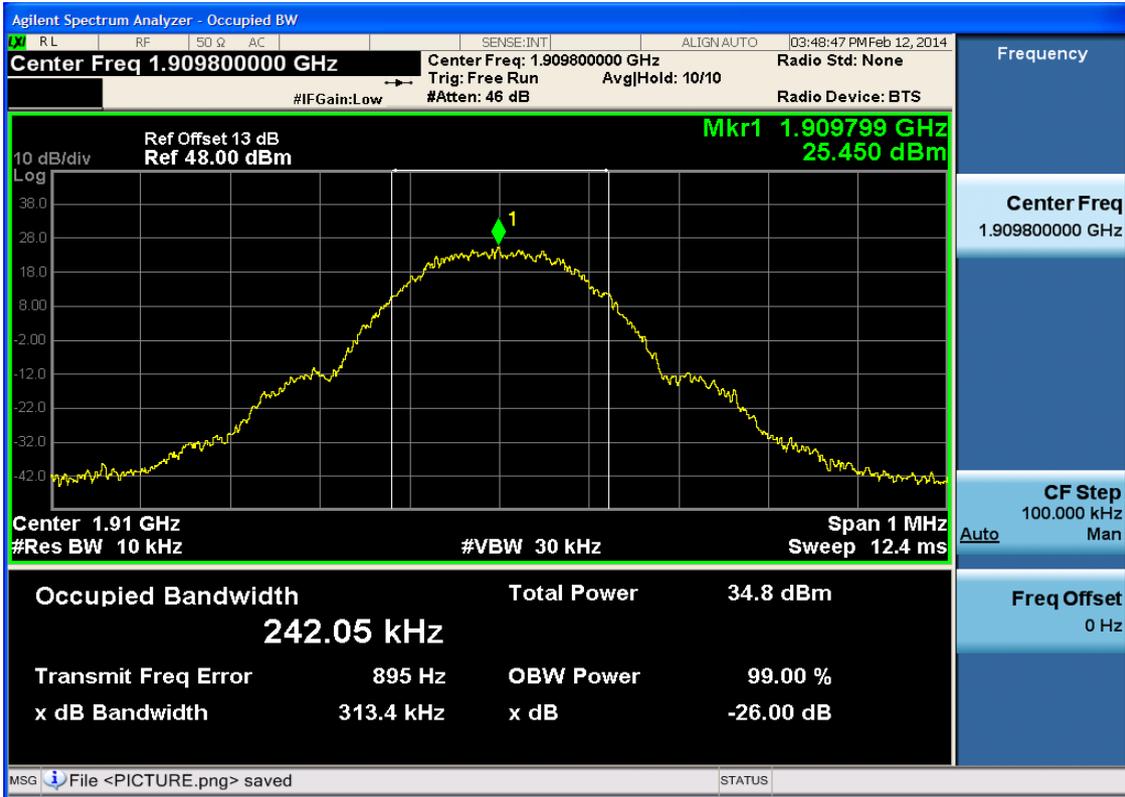


4.1.2.1.2 Test Channel = MCH





4.1.2.1.3 Test Channel = HCH



4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH



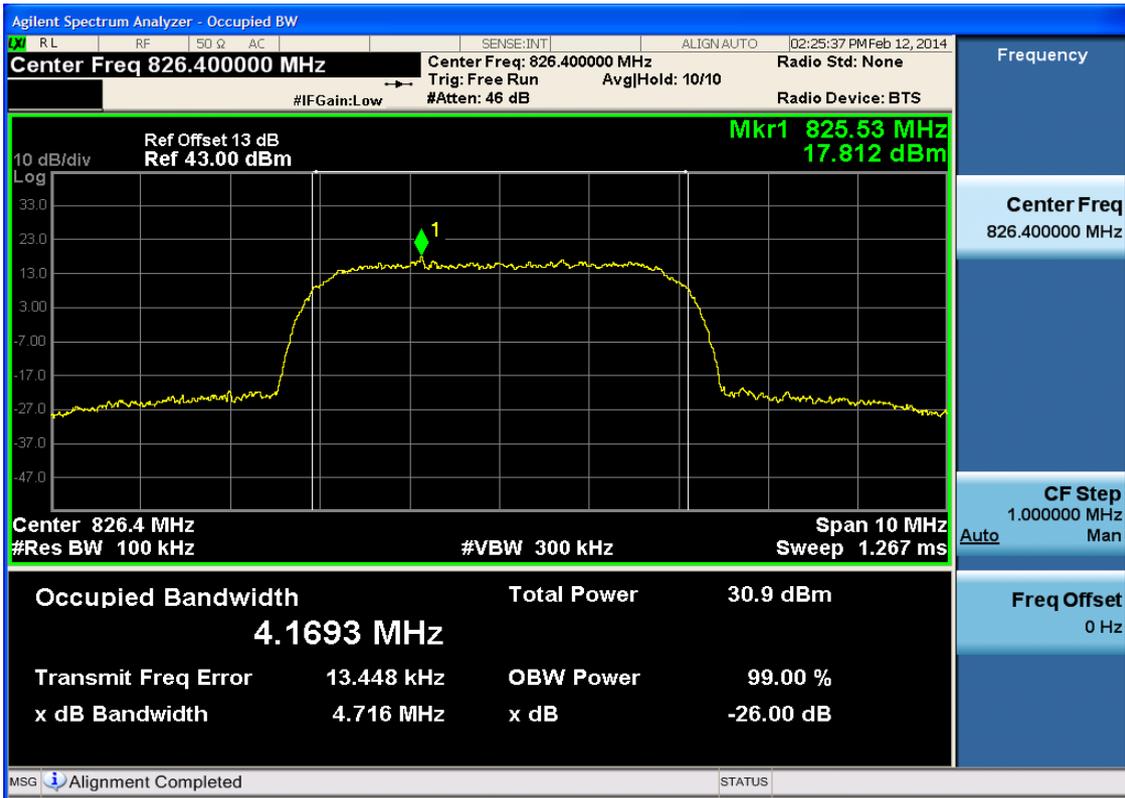


4.2 For UMTS

4.2.1 Test Band = WCDMA850

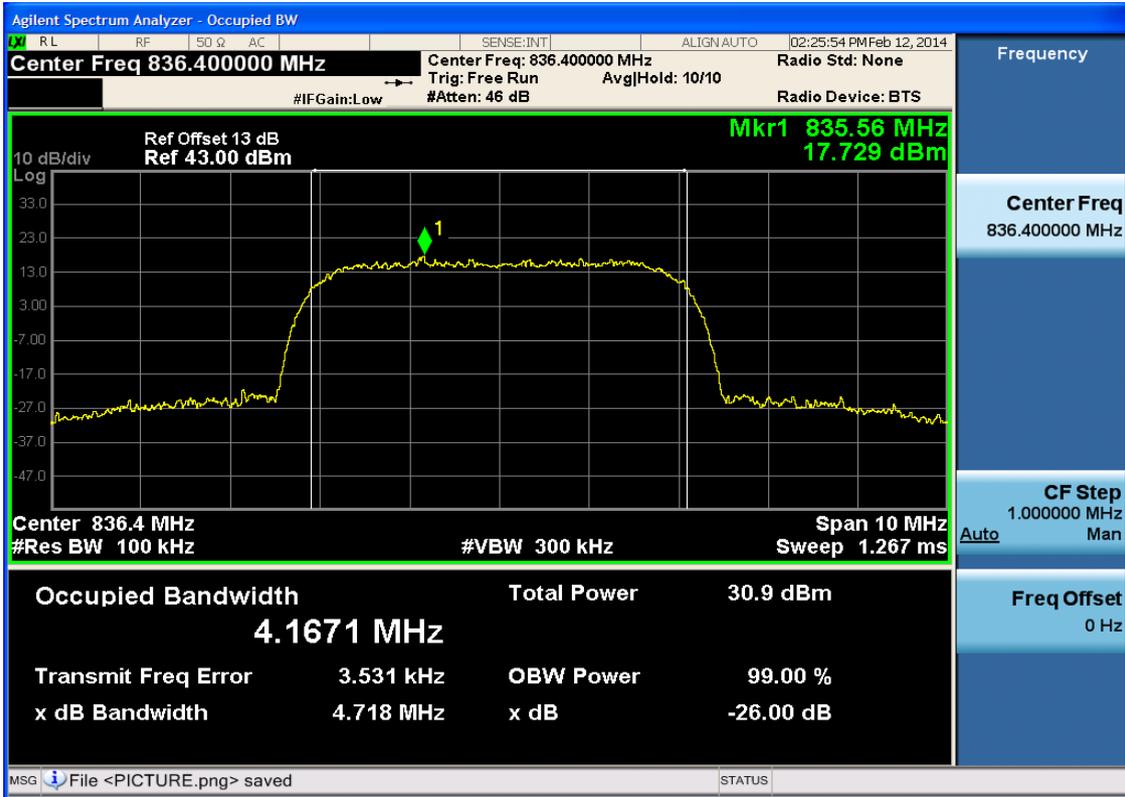
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



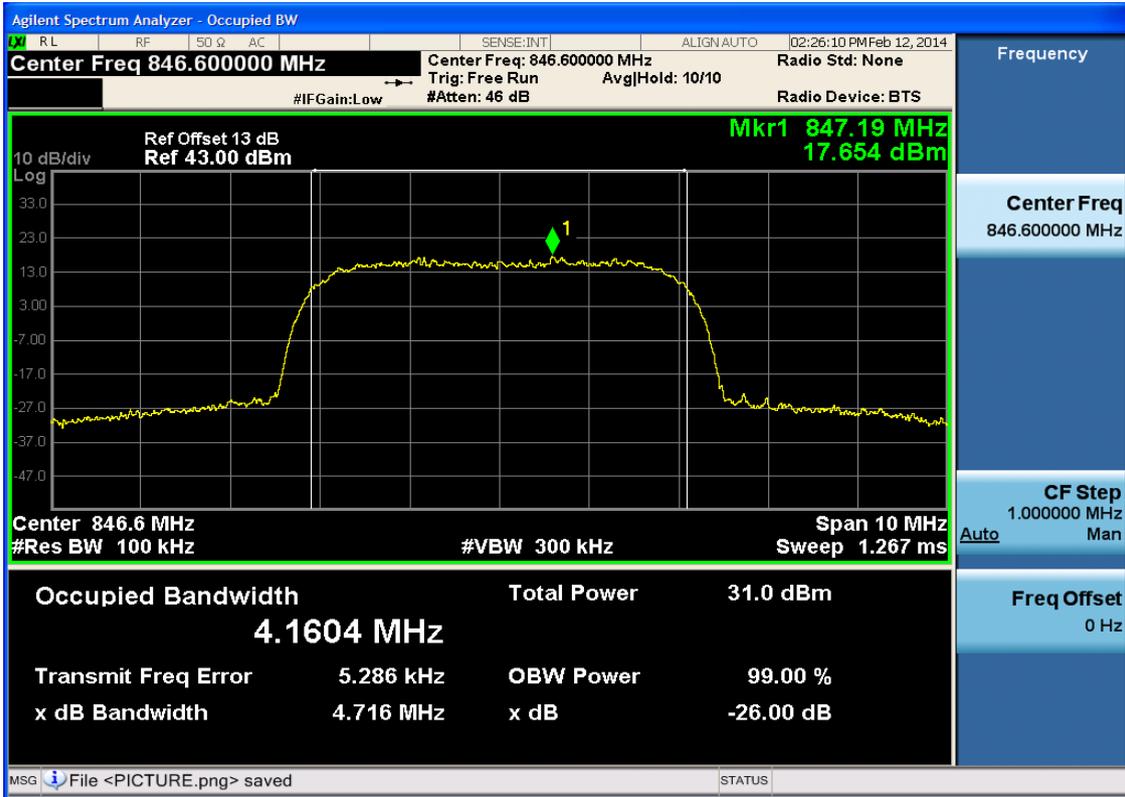


4.2.1.1.2 Test Channel = MCH





4.2.1.1.3 Test Channel = HCH

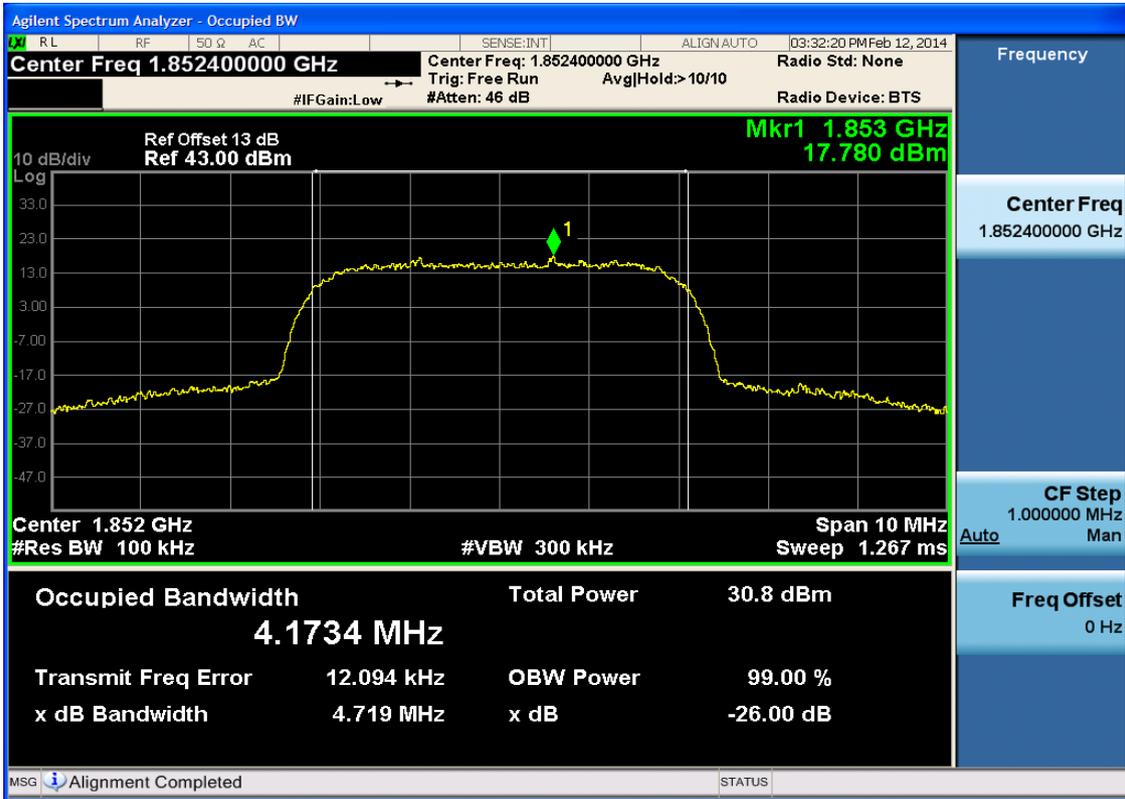




4.2.2 Test Band = WCDMA1900

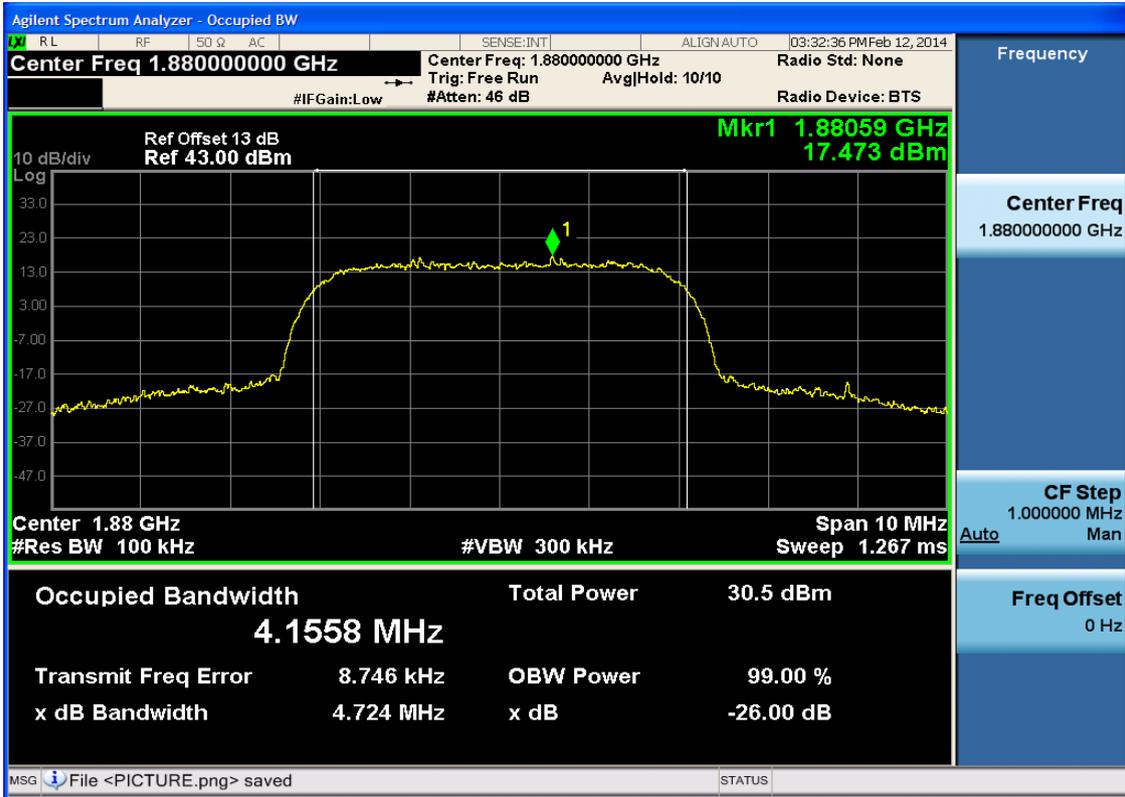
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



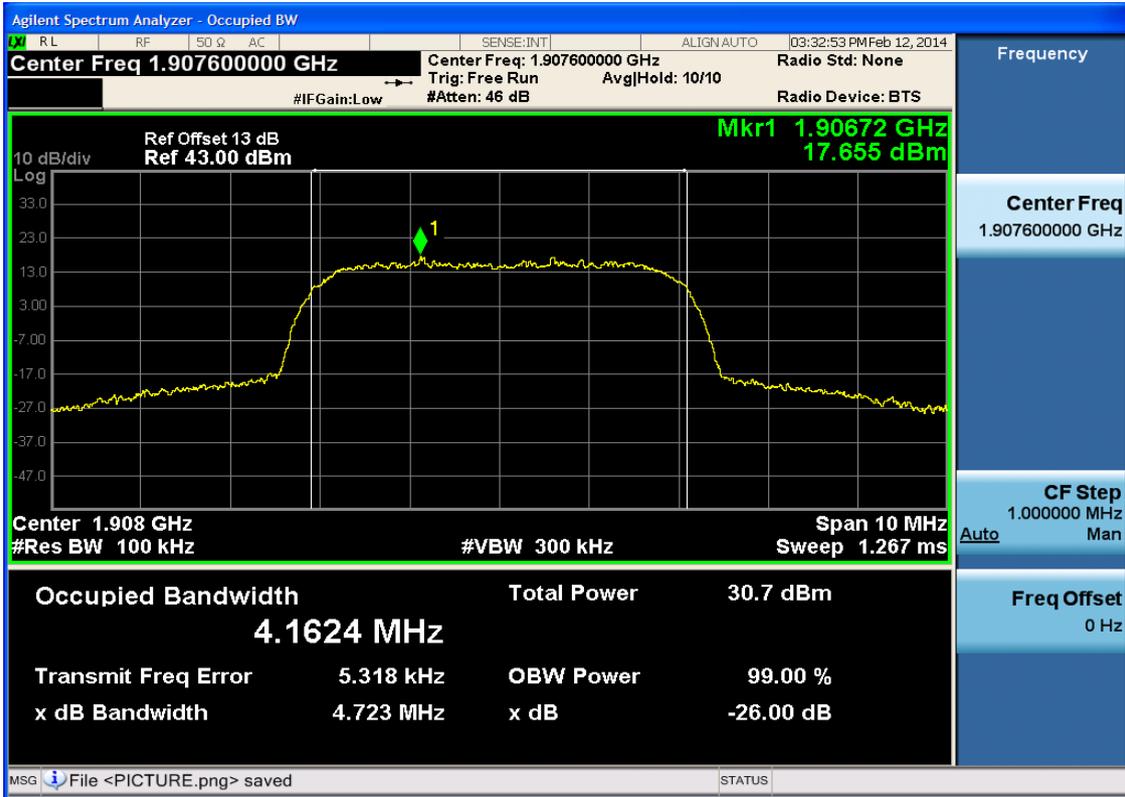


4.2.2.1.2 Test Channel = MCH





4.2.2.1.3 Test Channel = HCH



5Appendix_E: Band Edges Compliance

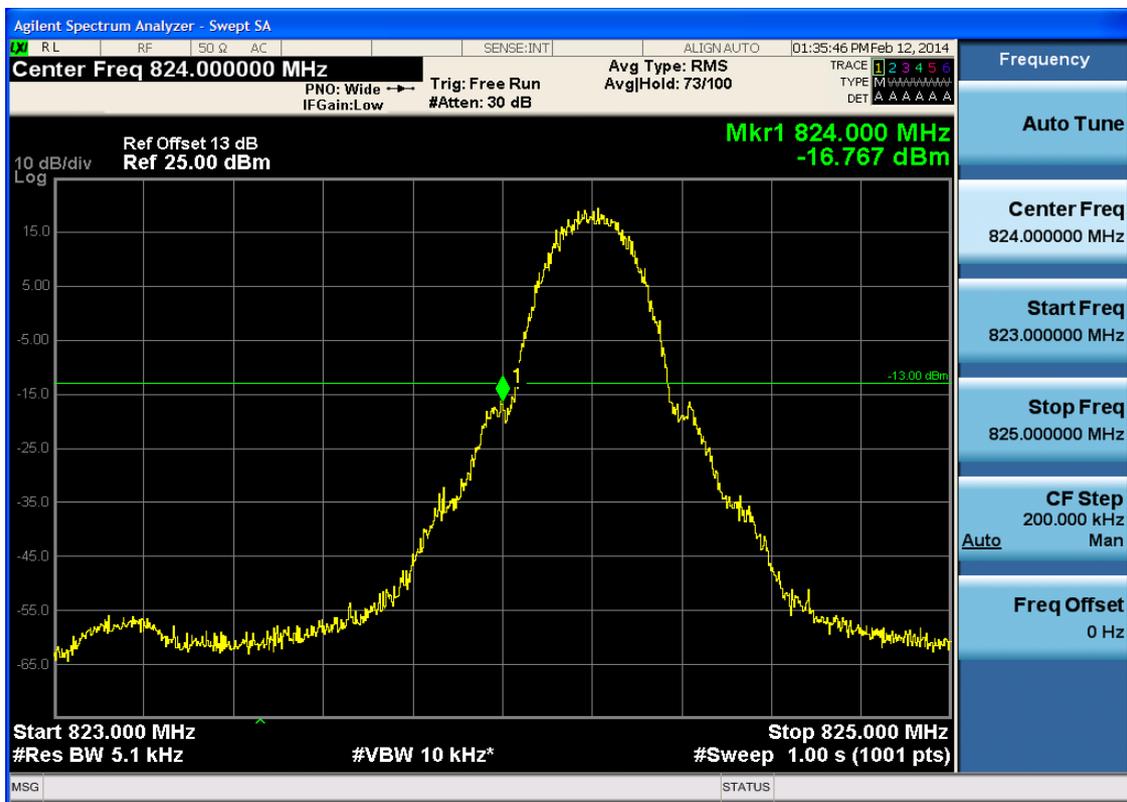
Part I - Test Plots

5.1 For GSM

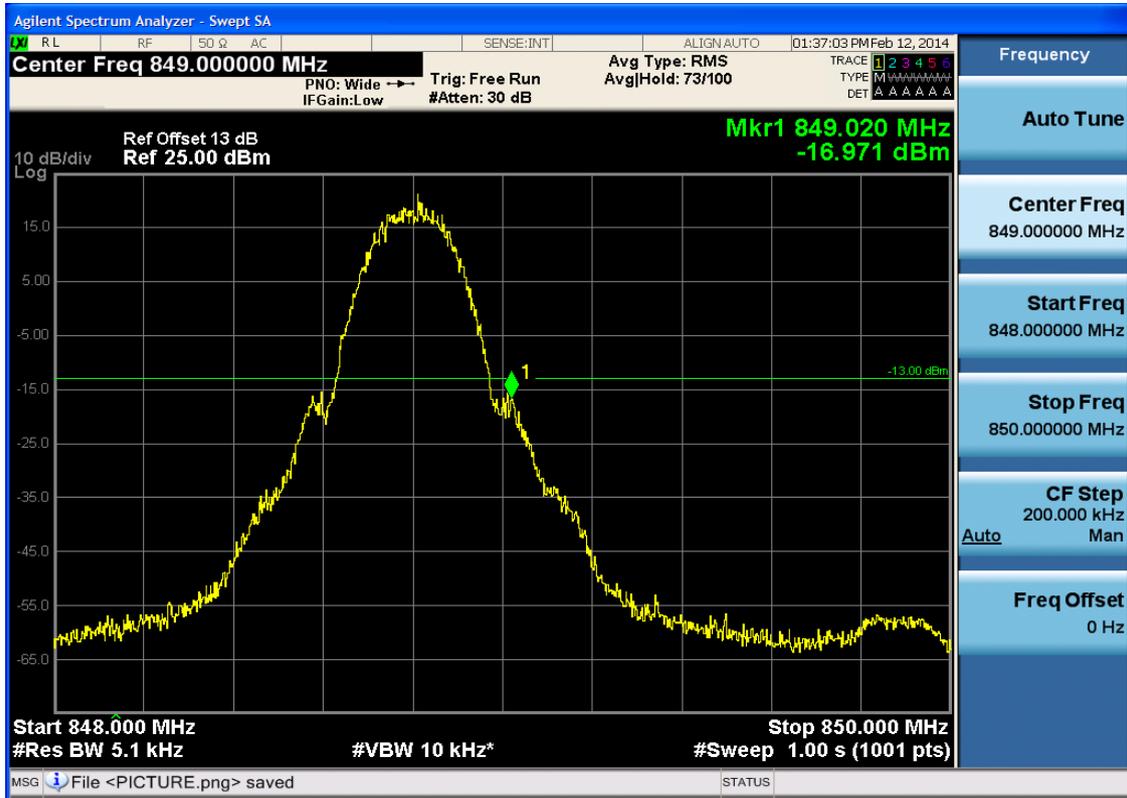
5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH



5.1.1.1.2 Test Channel = HCH



5.1.1.2.2 Test Channel = HCH

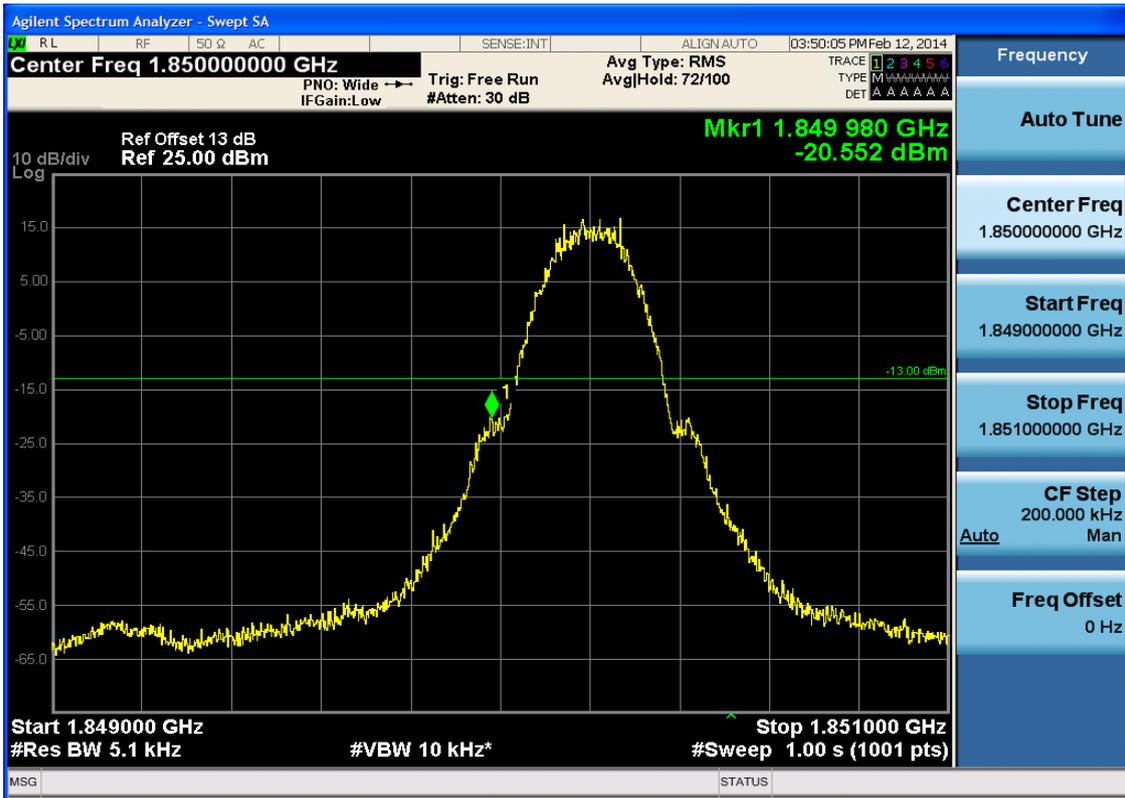




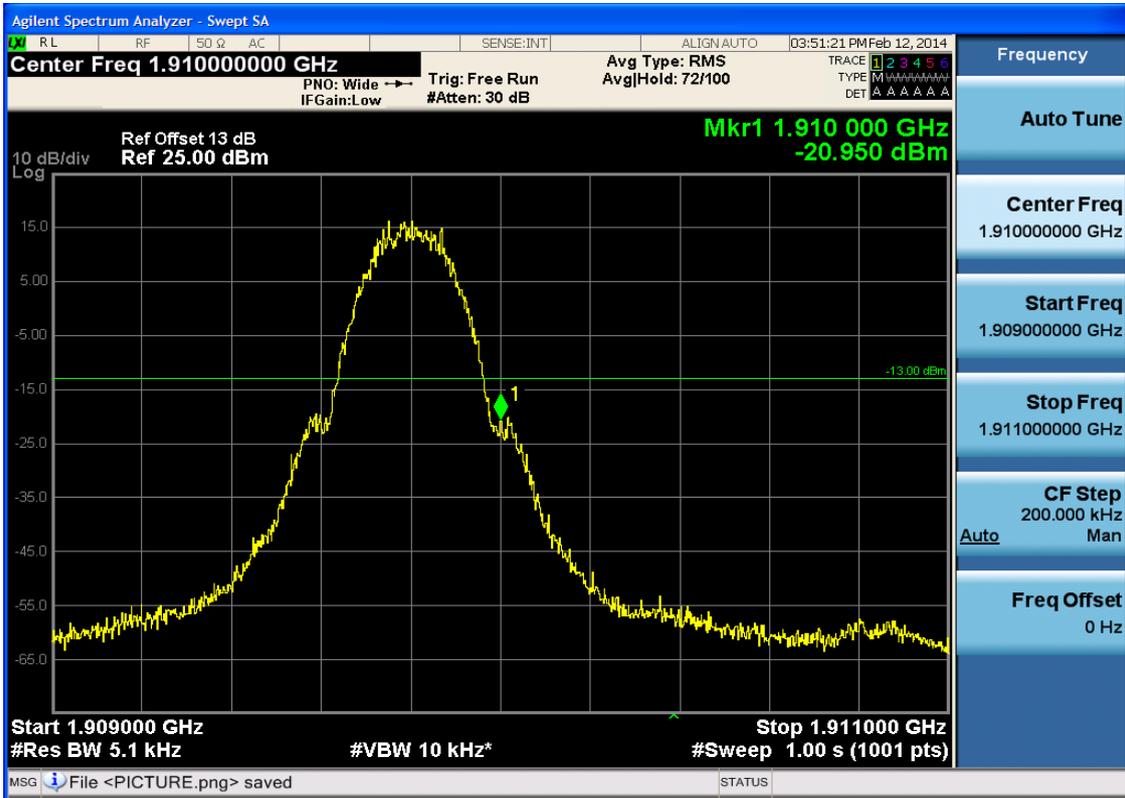
5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH

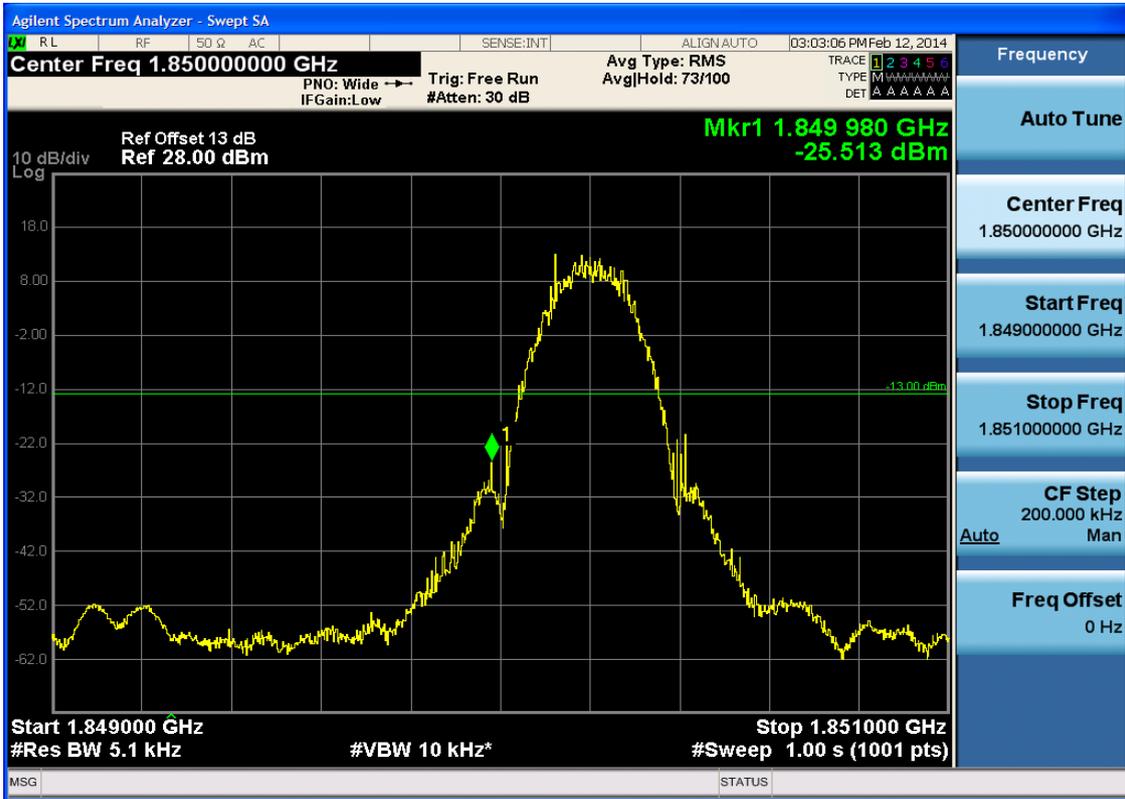


5.1.2.1.2 Test Channel = HCH



5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH



5.1.2.2.2 Test Channel = HCH



5.2 For UMTS

5.2.1 Test Band = WCDMA850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH



5.2.1.1.2 Test Channel = HCH

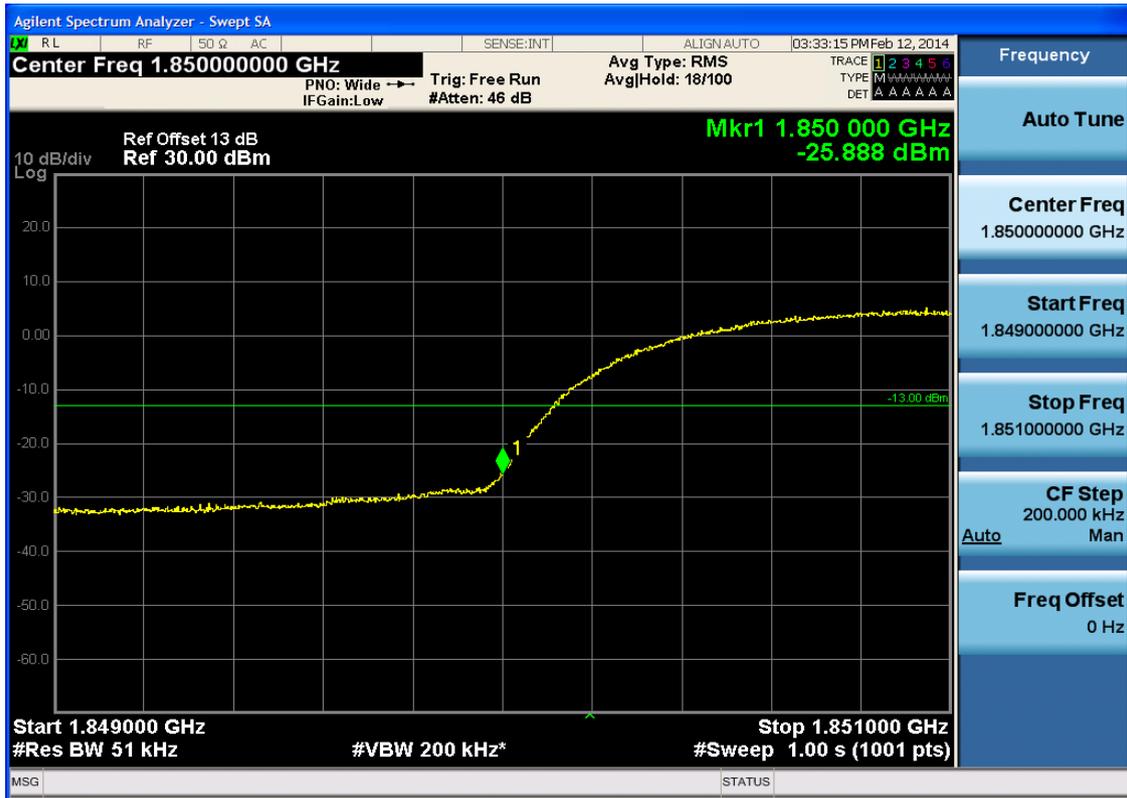




5.2.2 Test Band = WCDMA1900

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH



5.2.2.1.2 Test Channel = HCH



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

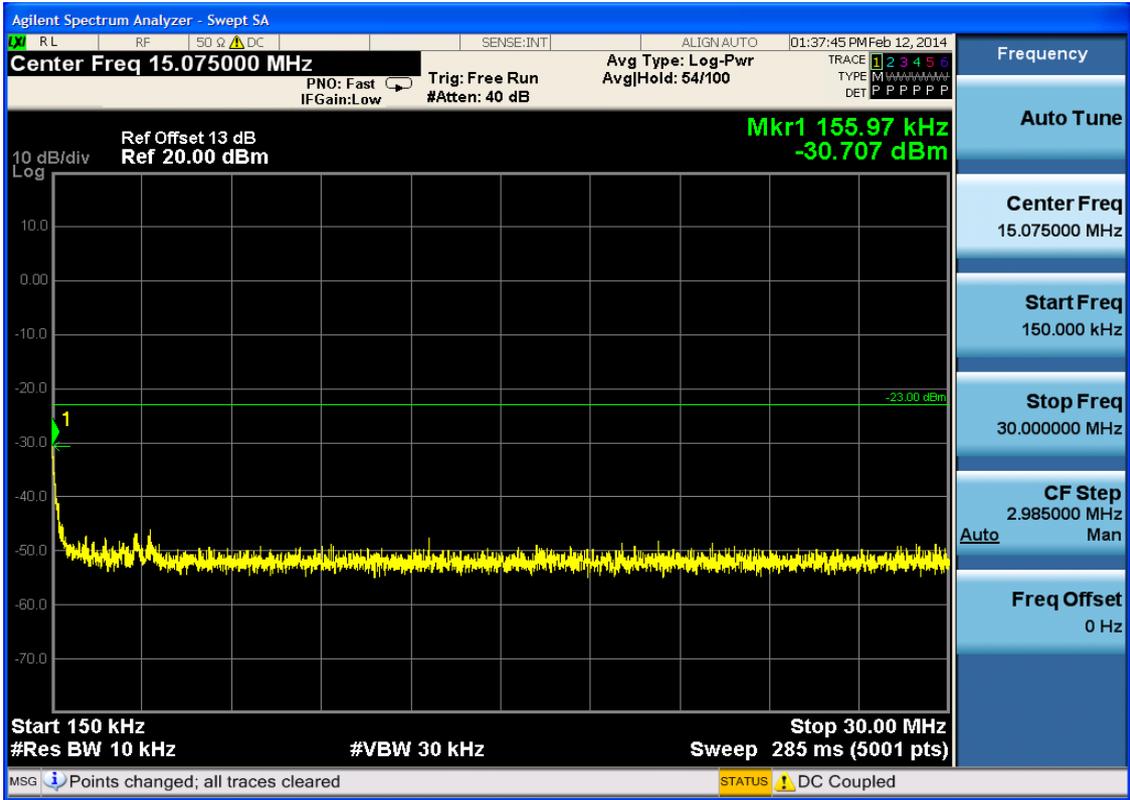
6.1 For GSM

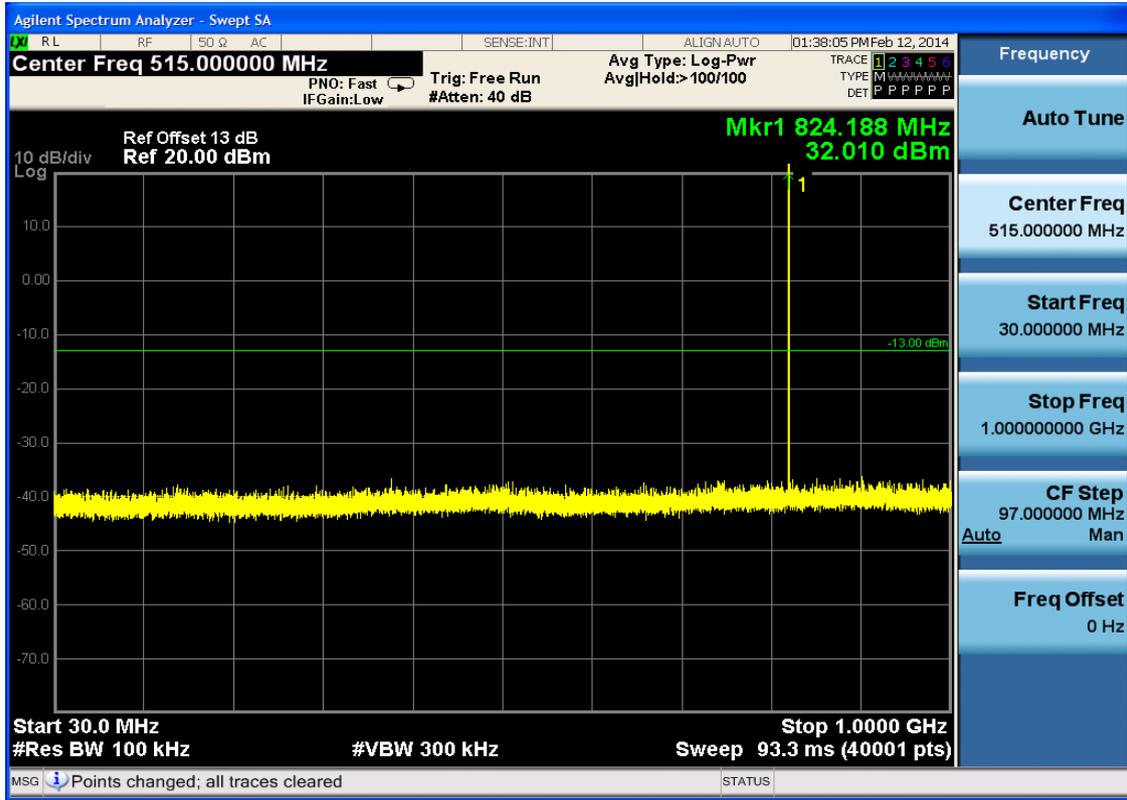
6.1.1 Test Band = GSM850

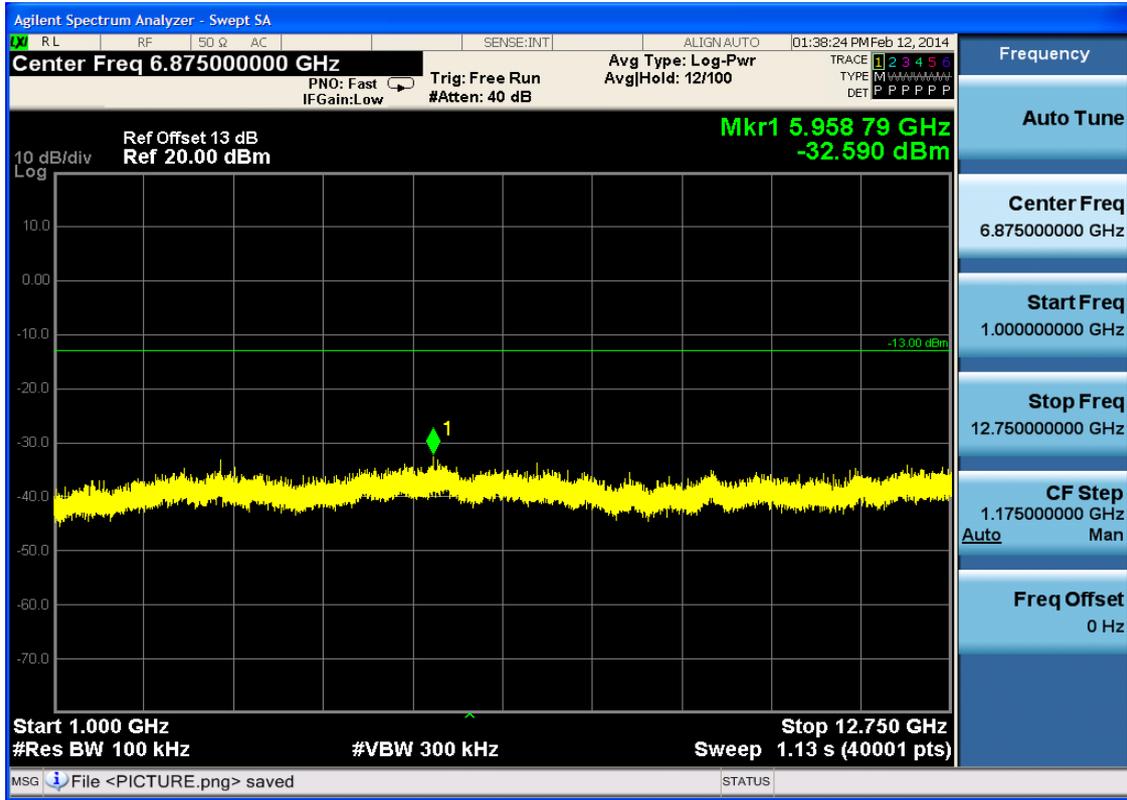
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH





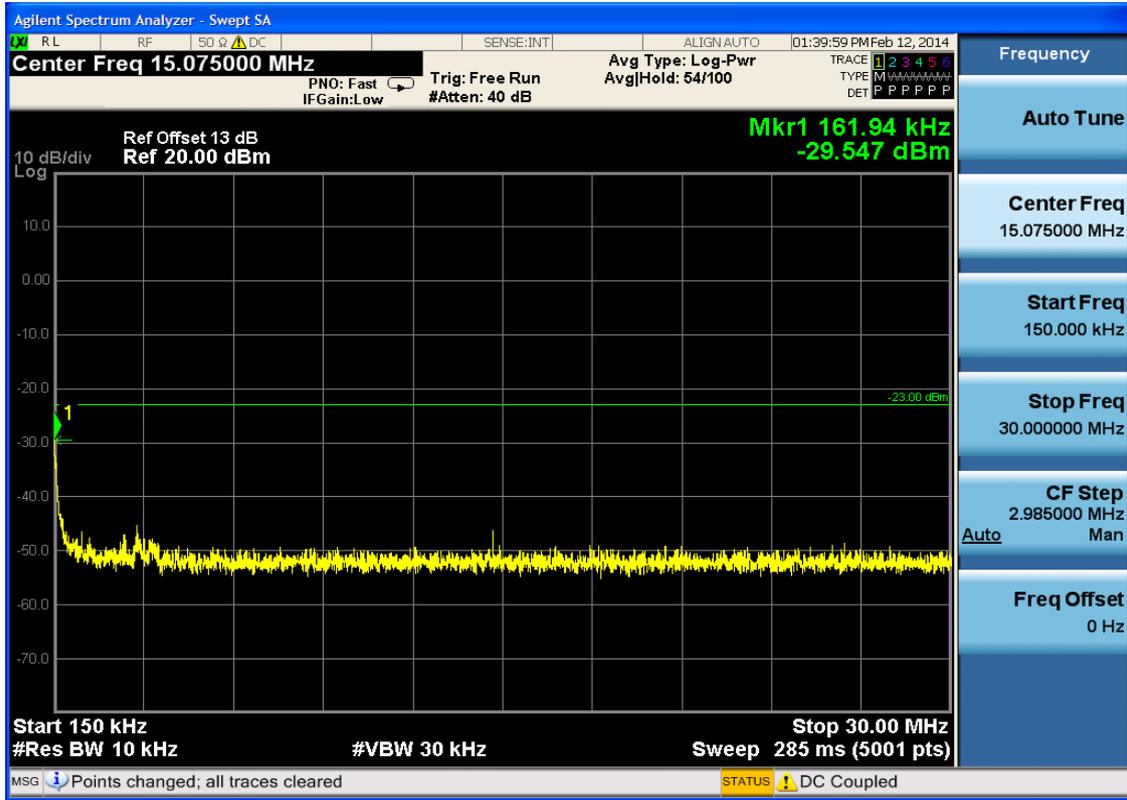


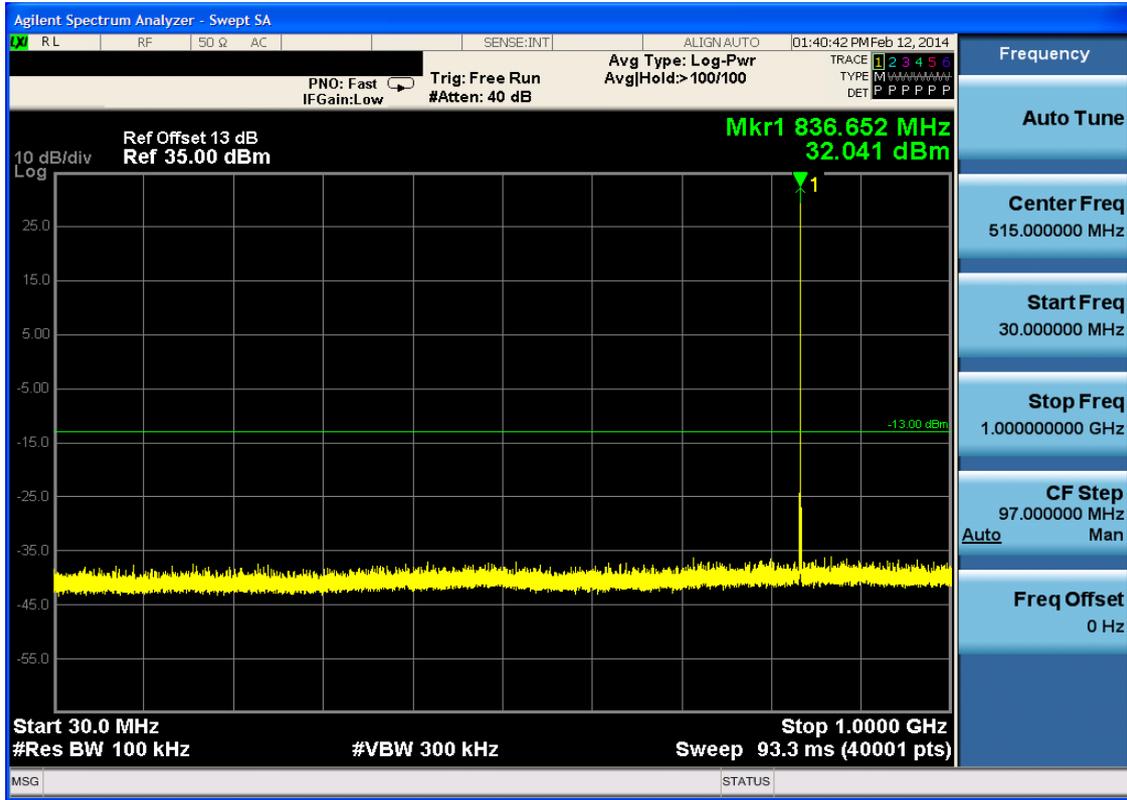


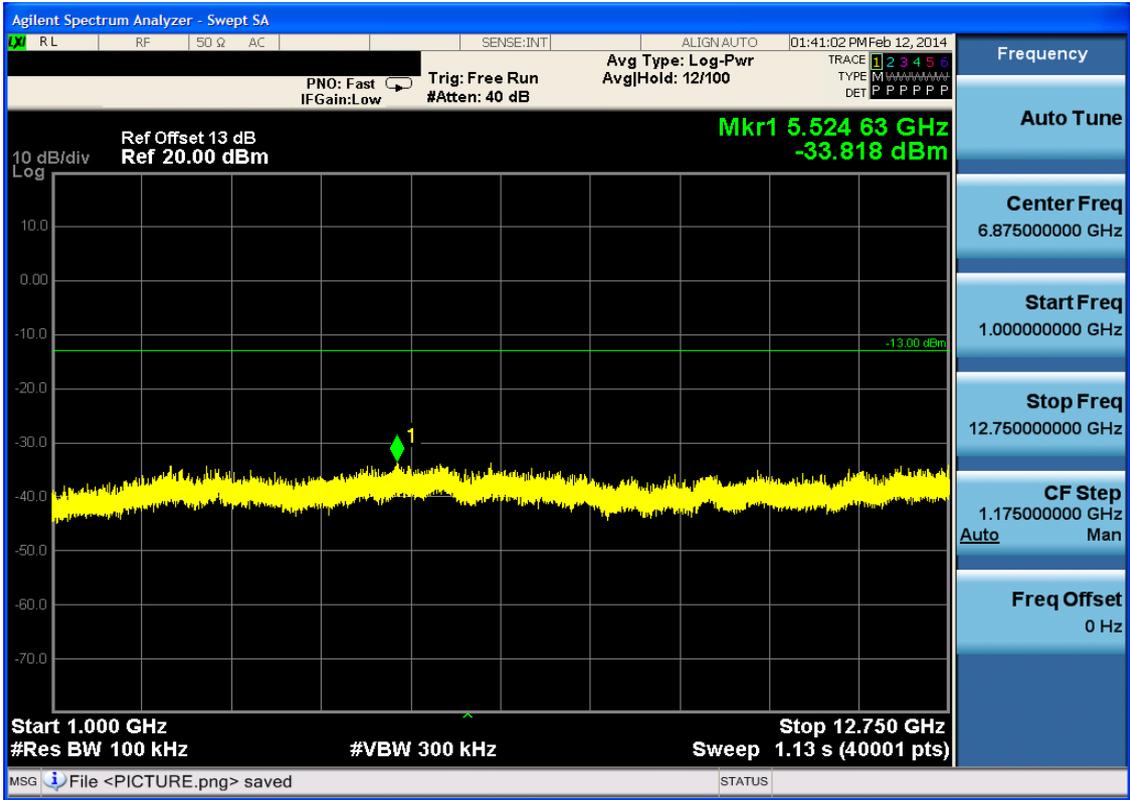


6.1.1.1.2 Test Channel = MCH





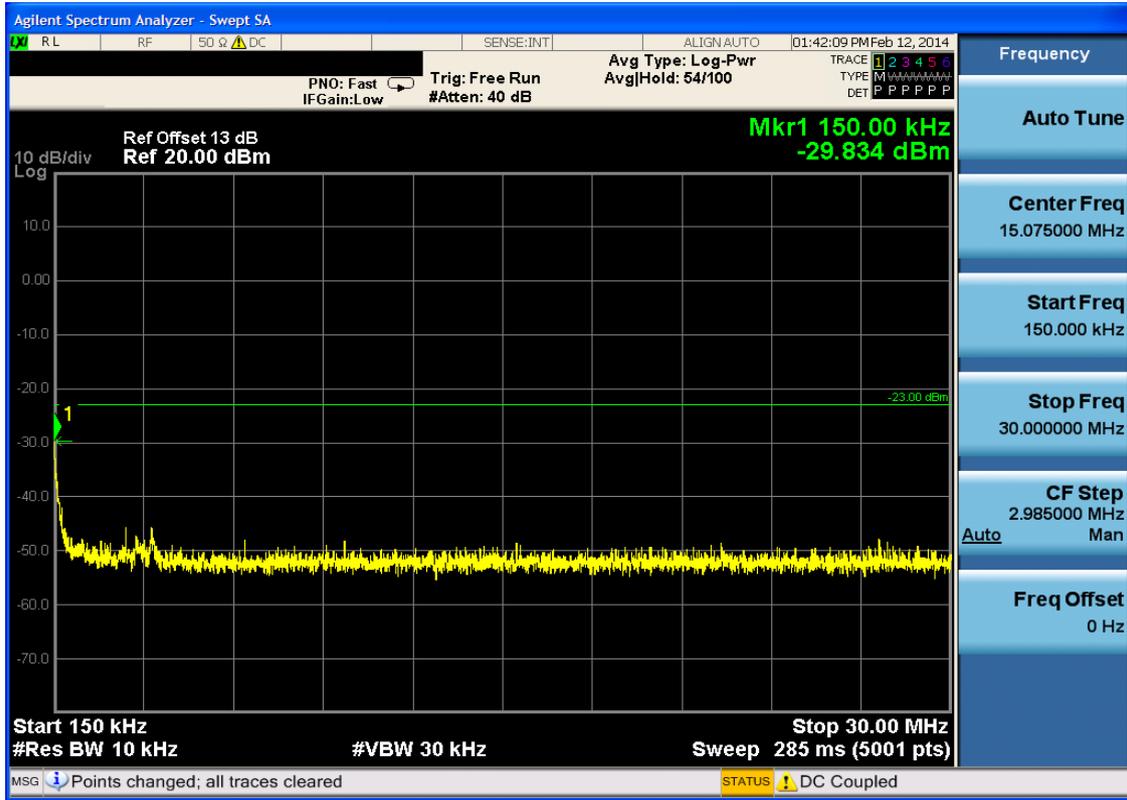


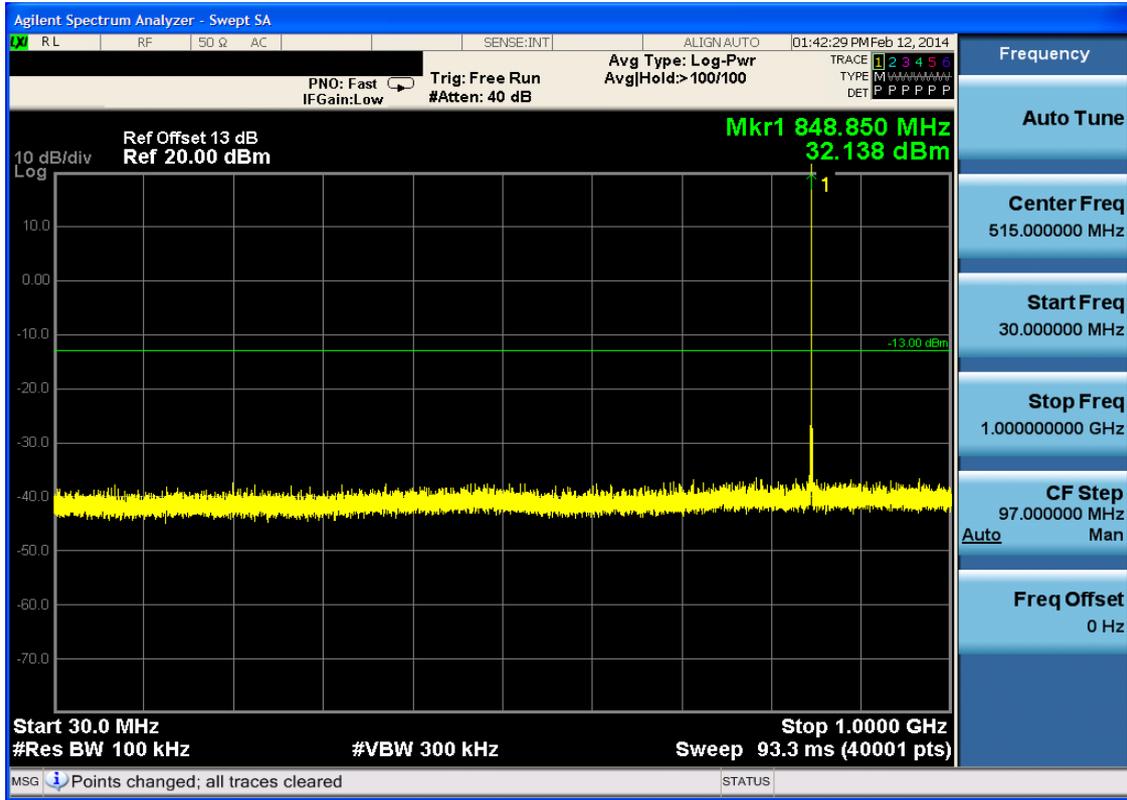


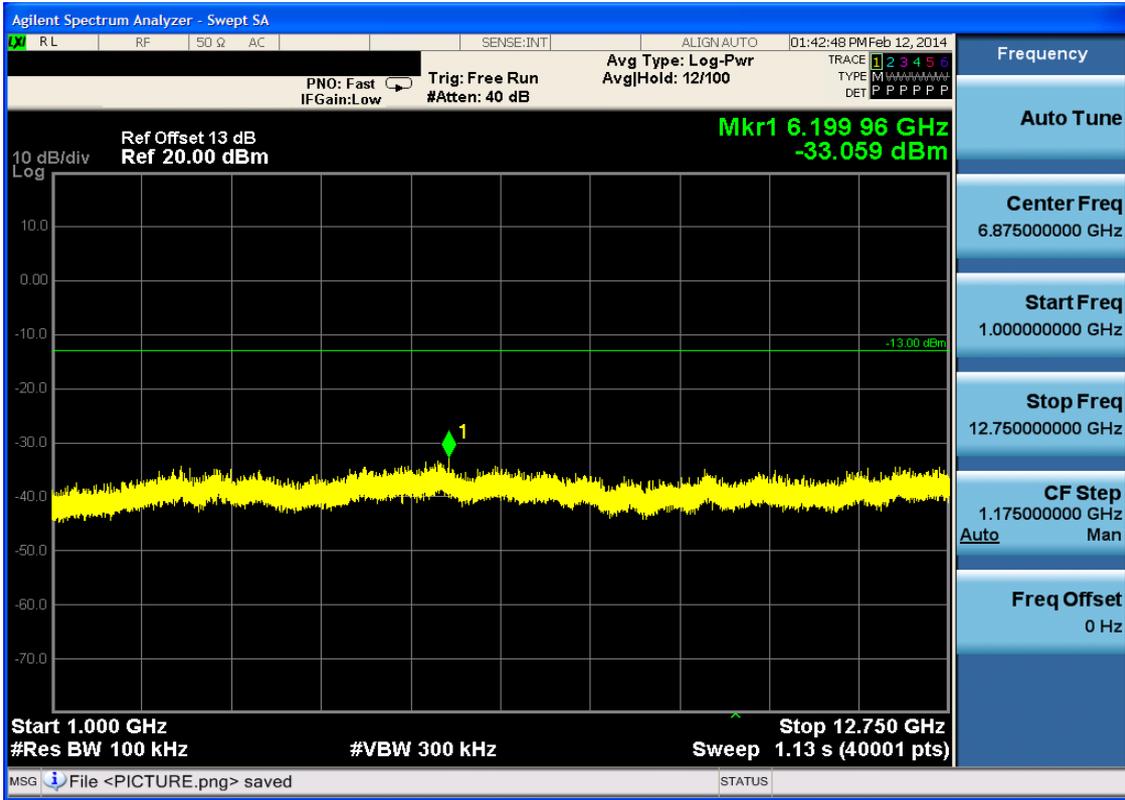


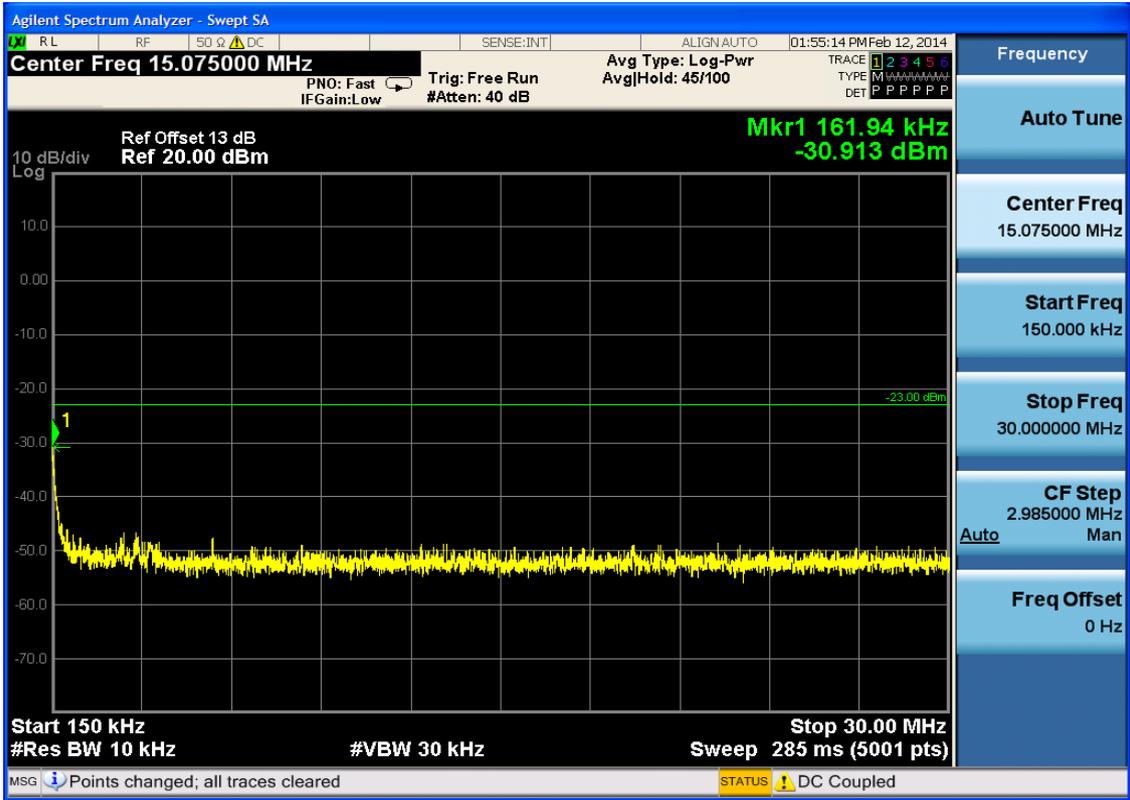
6.1.1.1.3 Test Channel = HCH



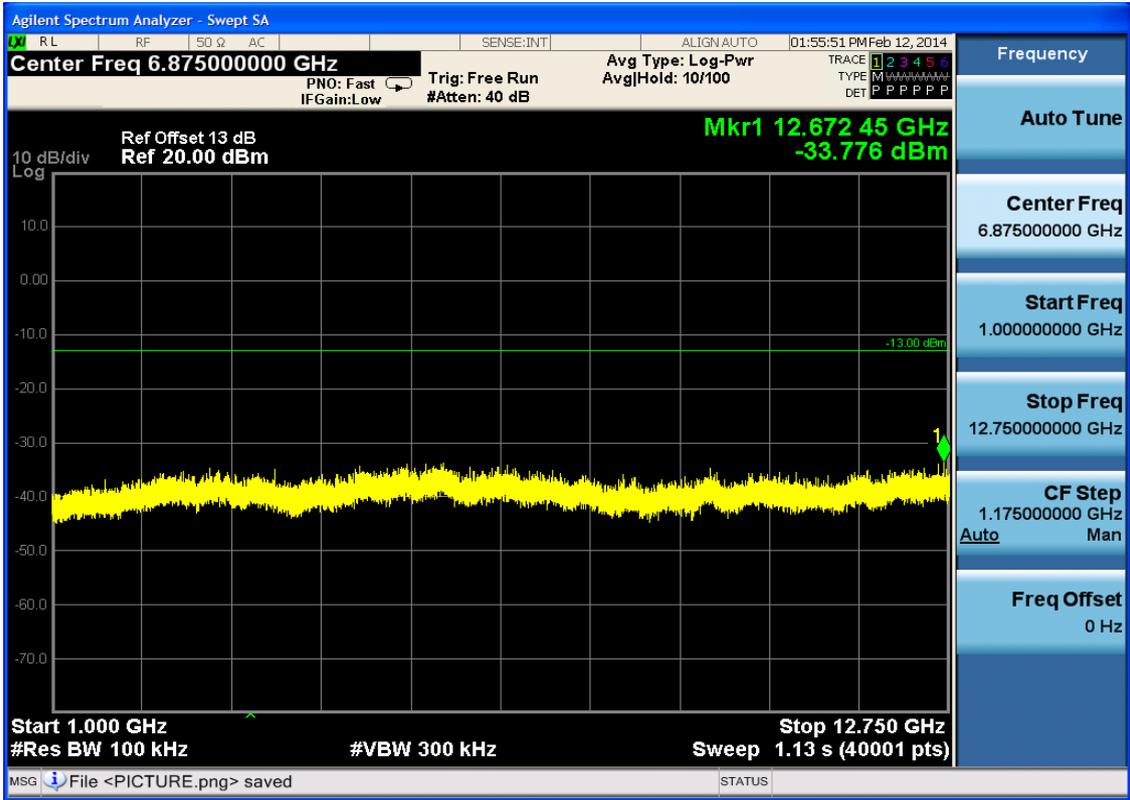






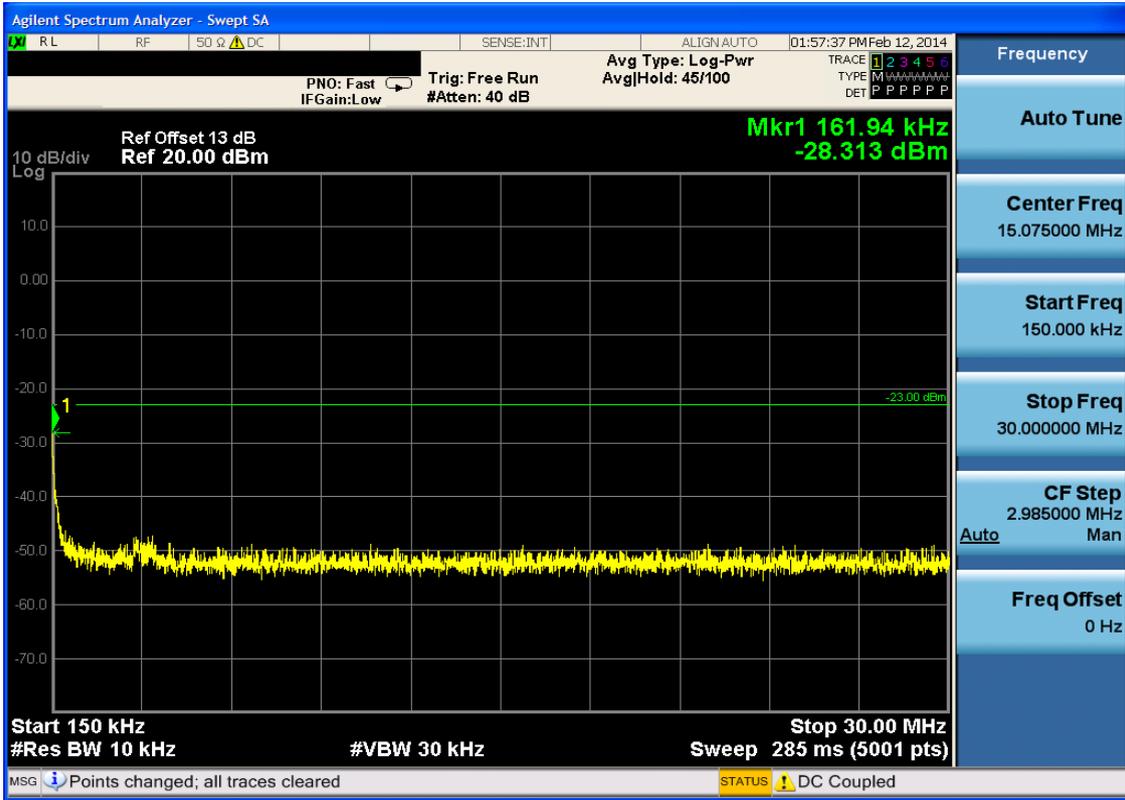


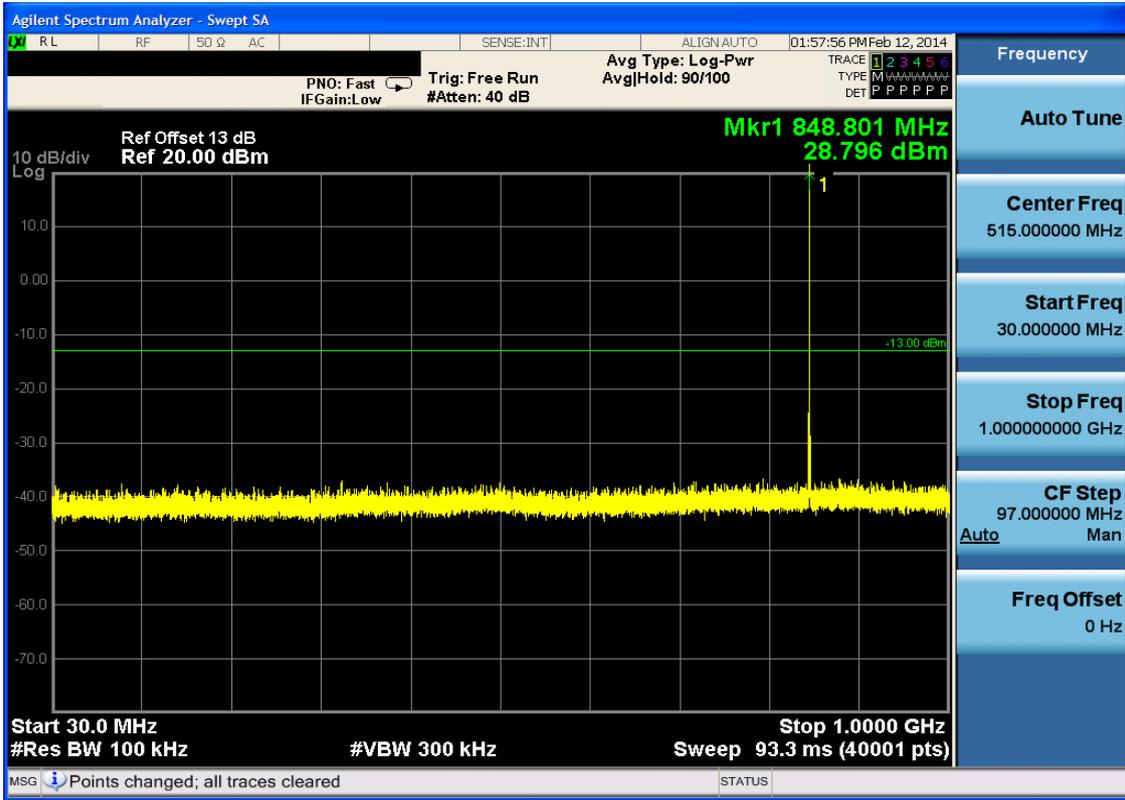


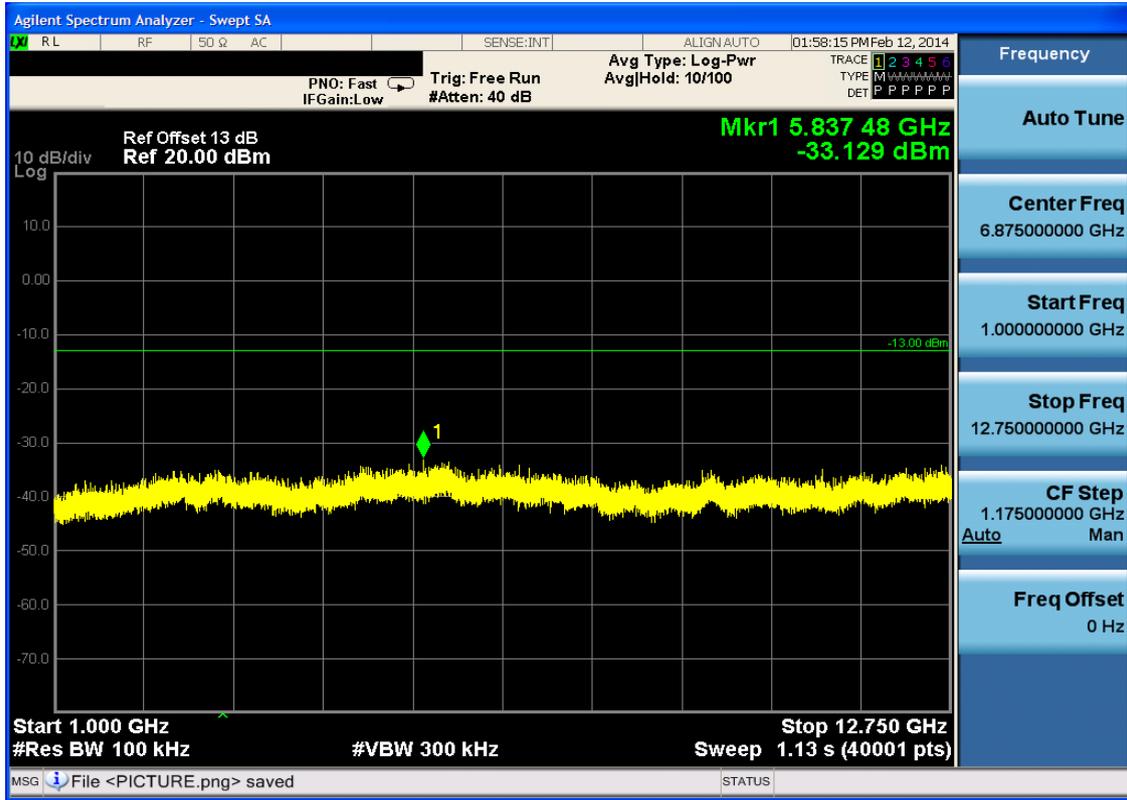


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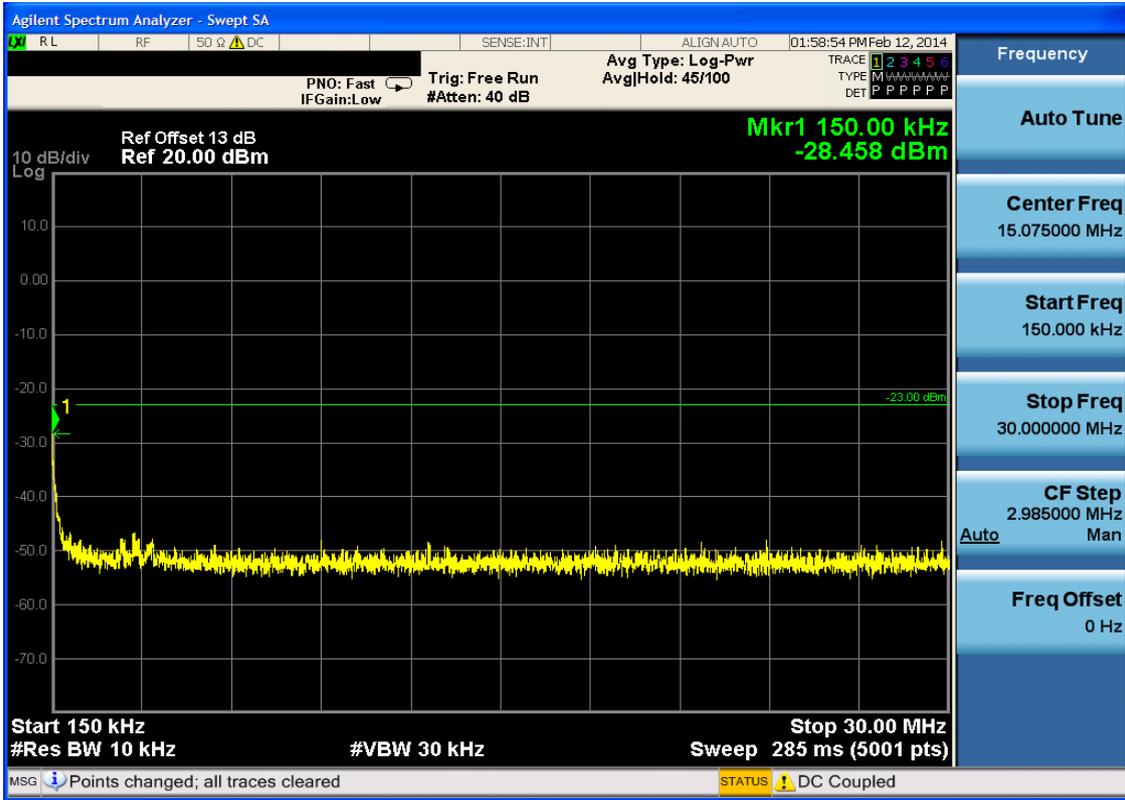


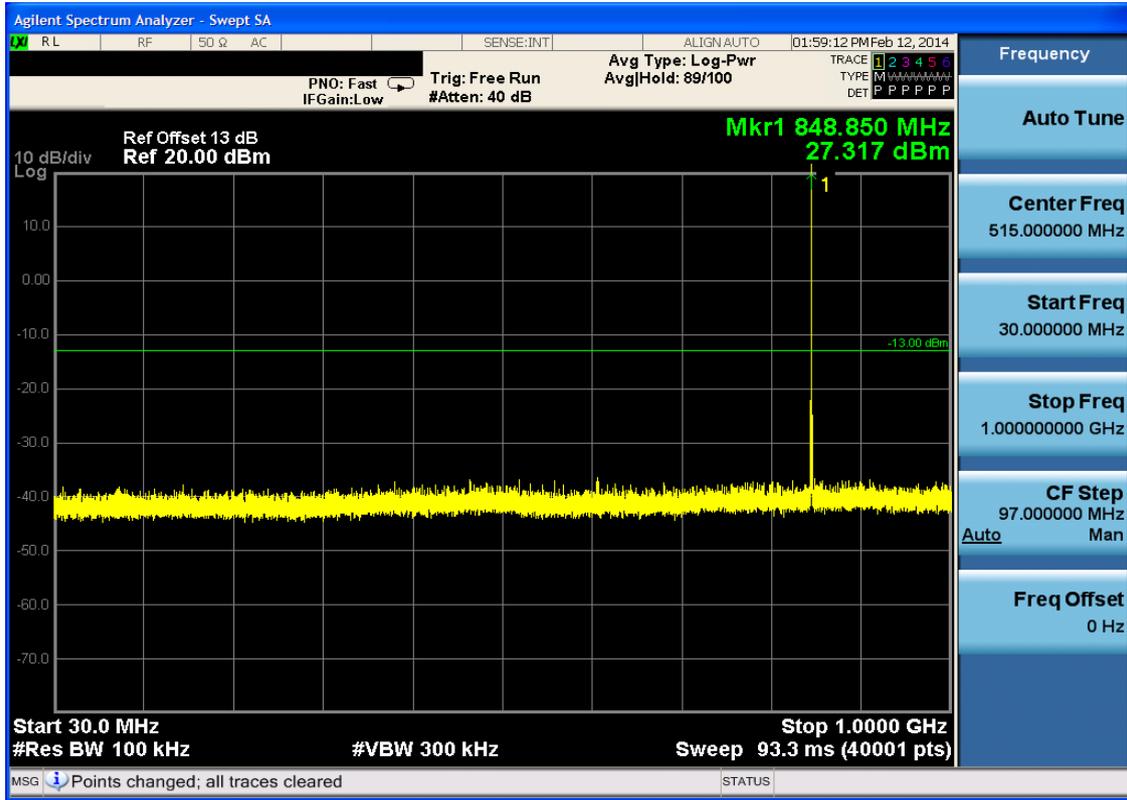


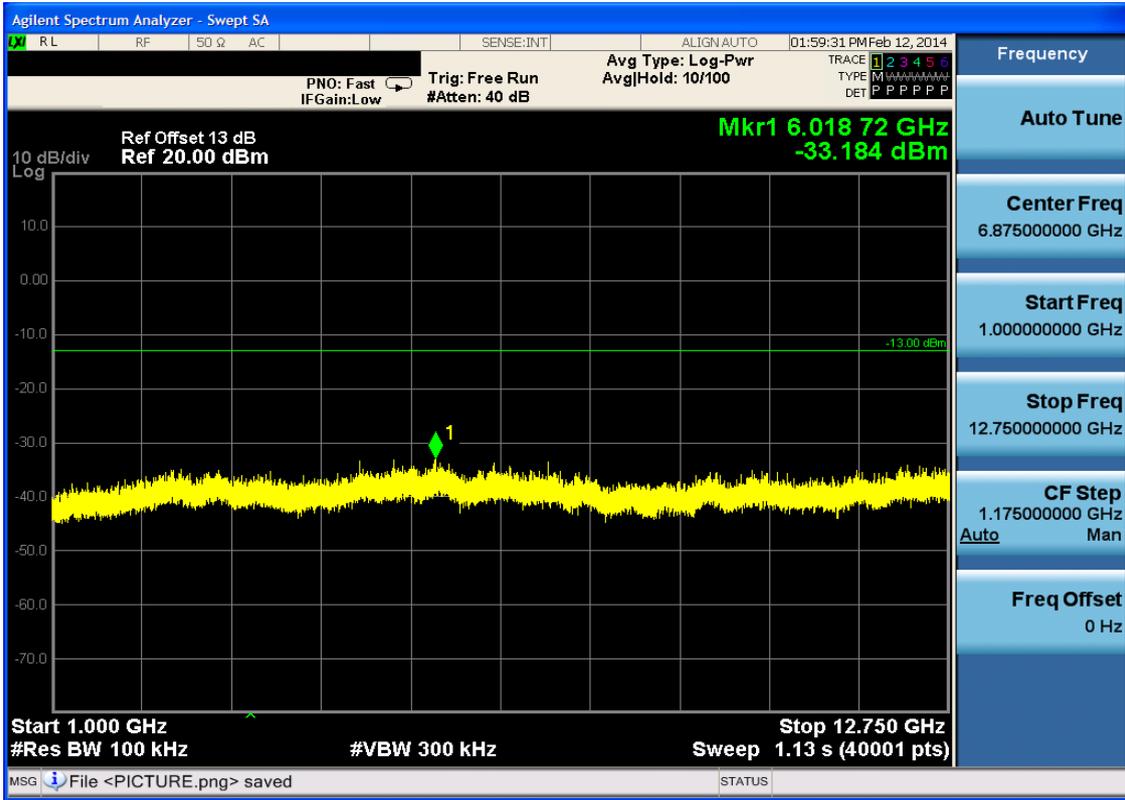


6.1.1.2.3 Test Channel = HCH







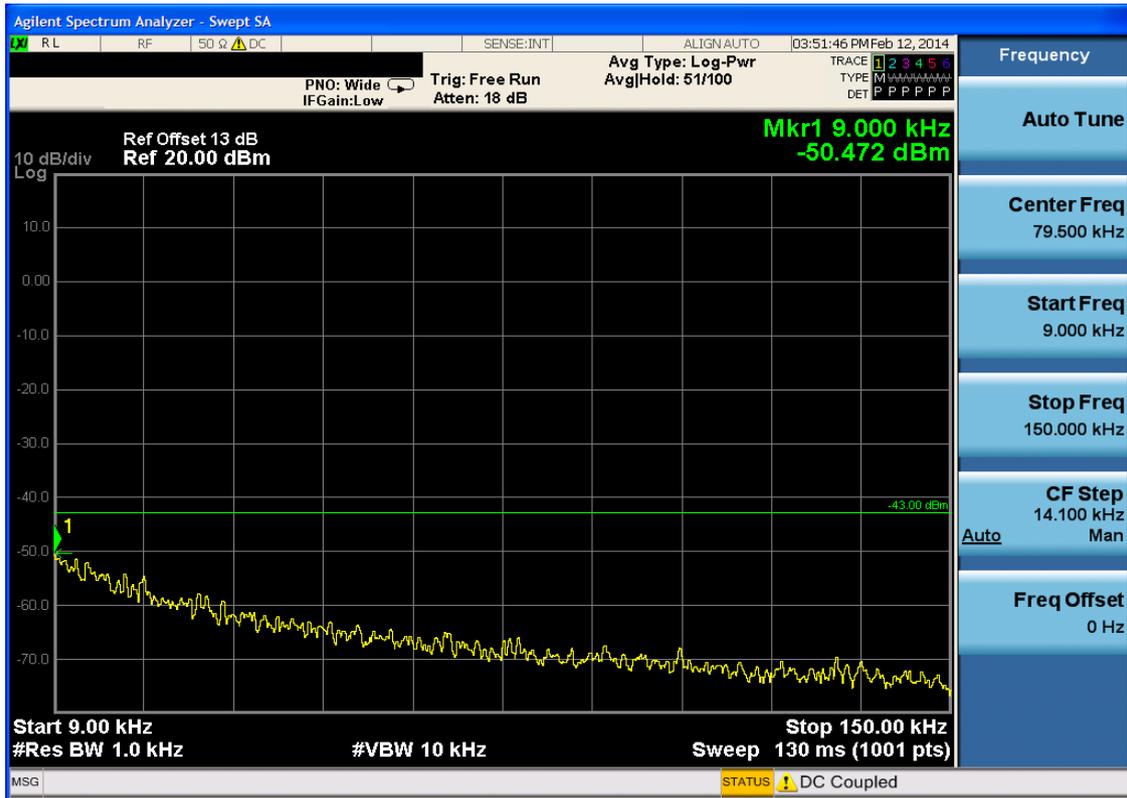


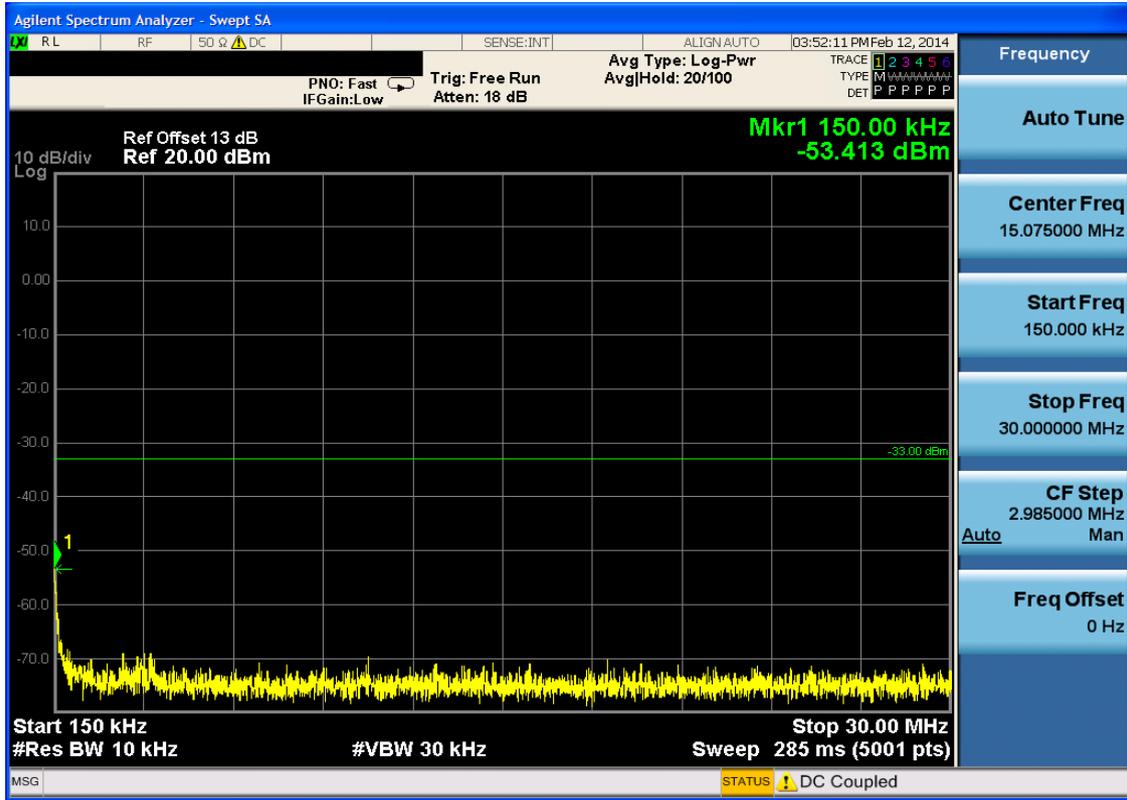


6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

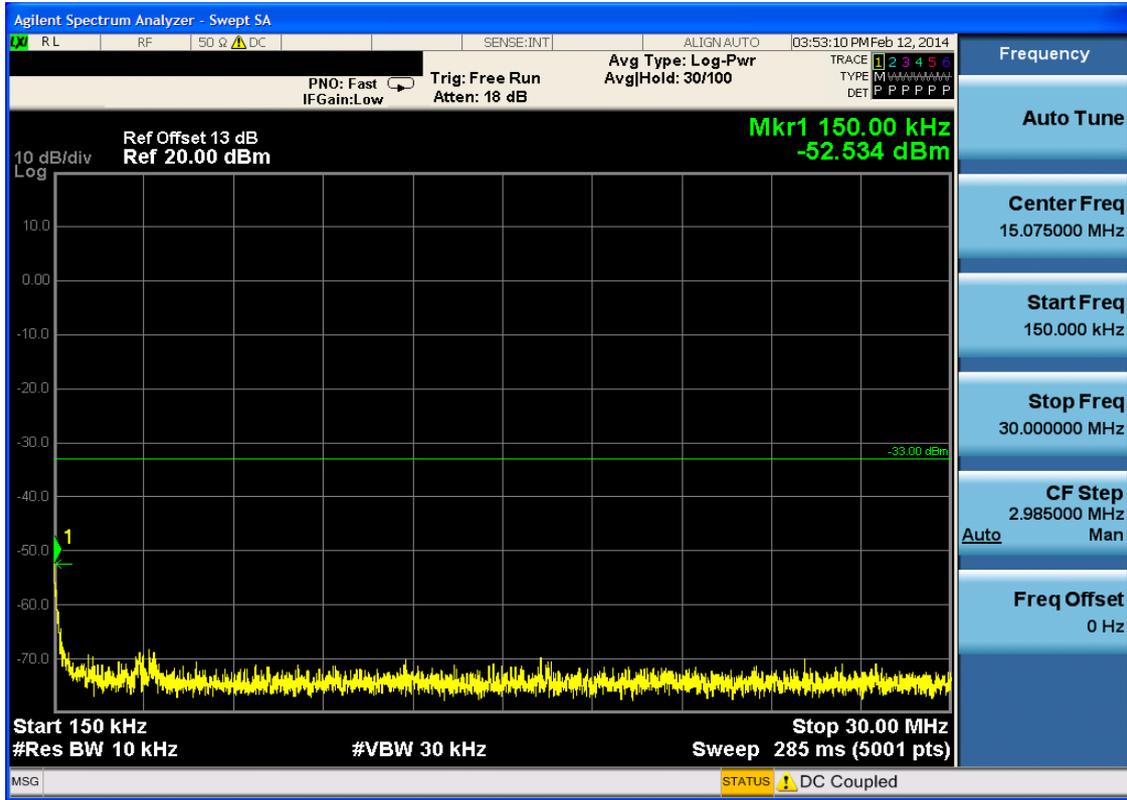






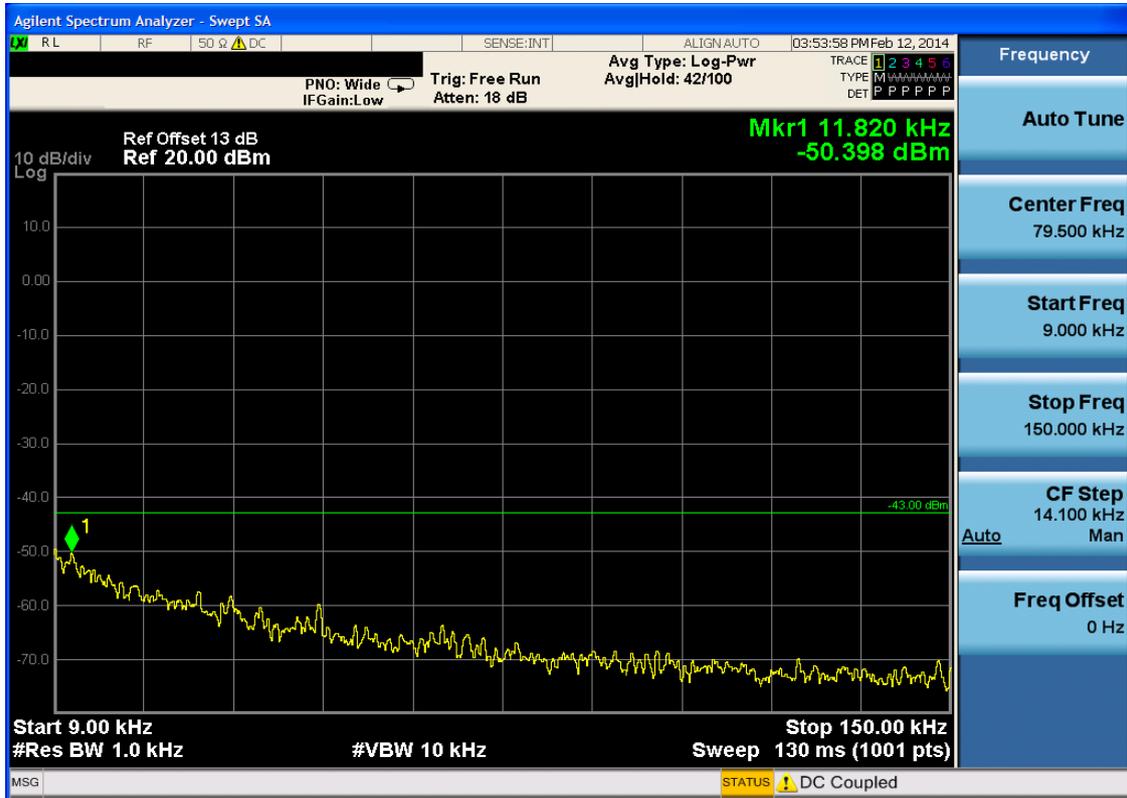
6.1.2.1.2 Test Channel = MCH

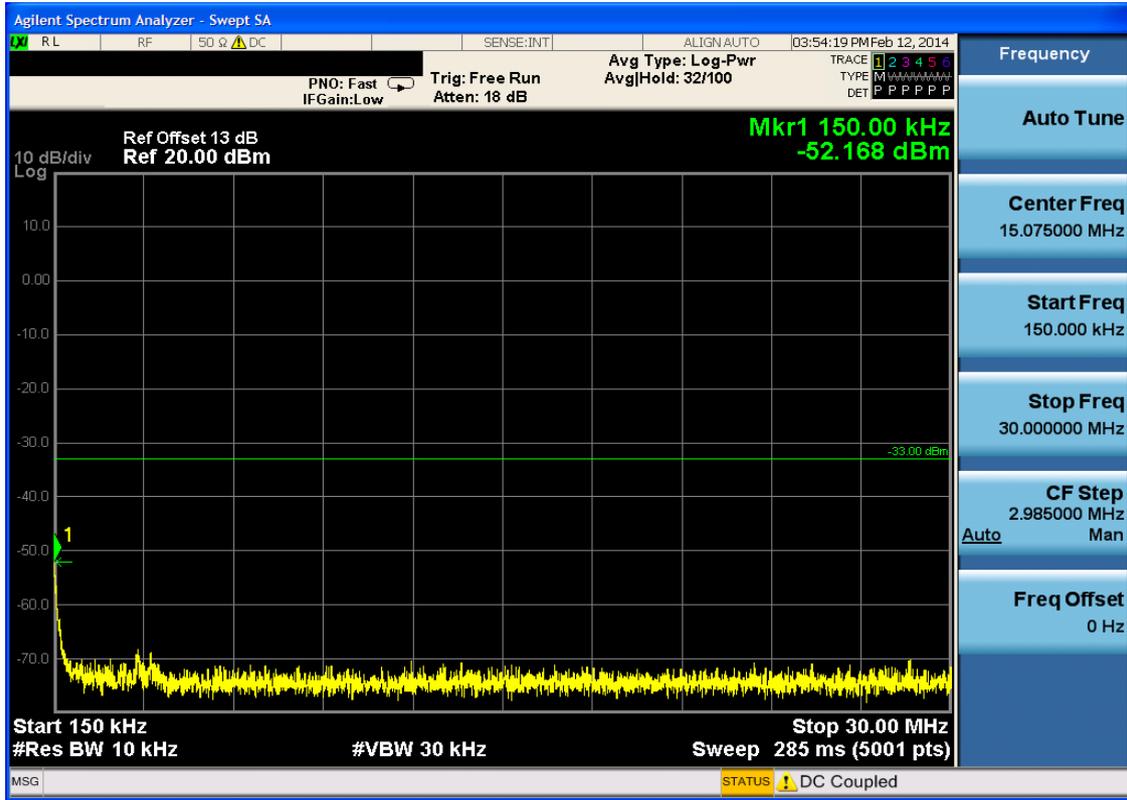




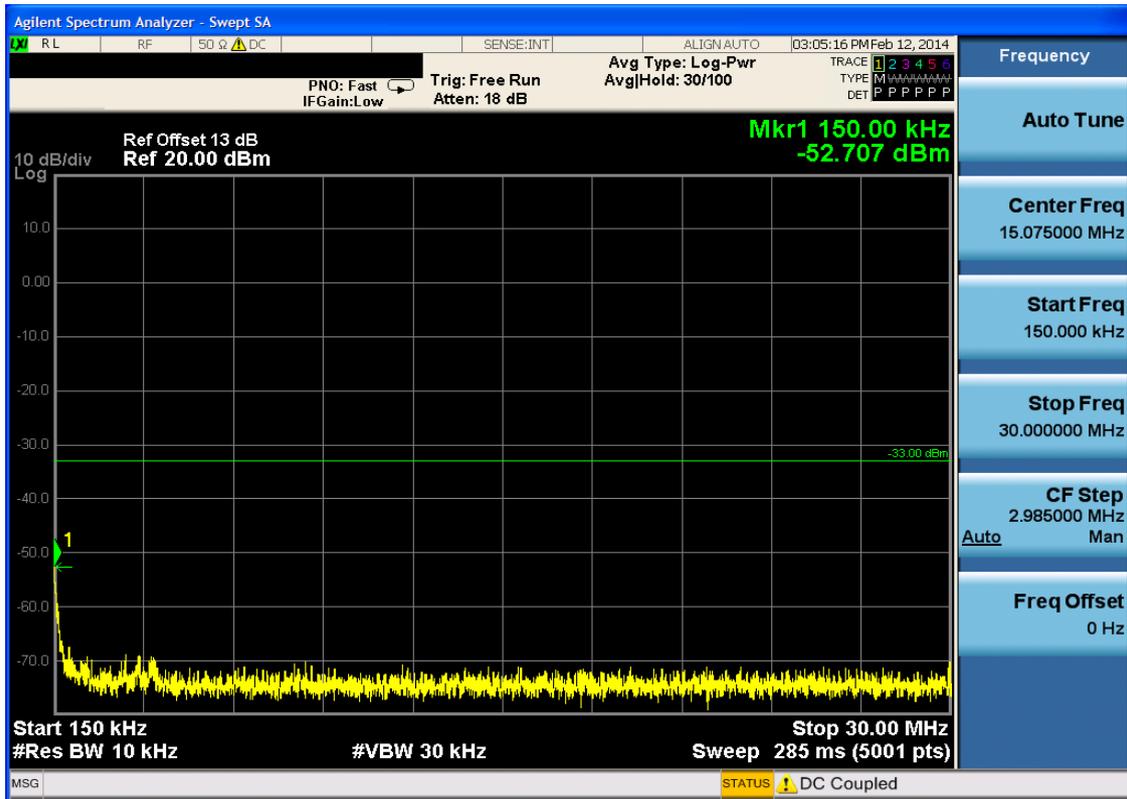


6.1.2.1.3 Test Channel = HCH













6.1.2.2.2 Test Channel = MCH

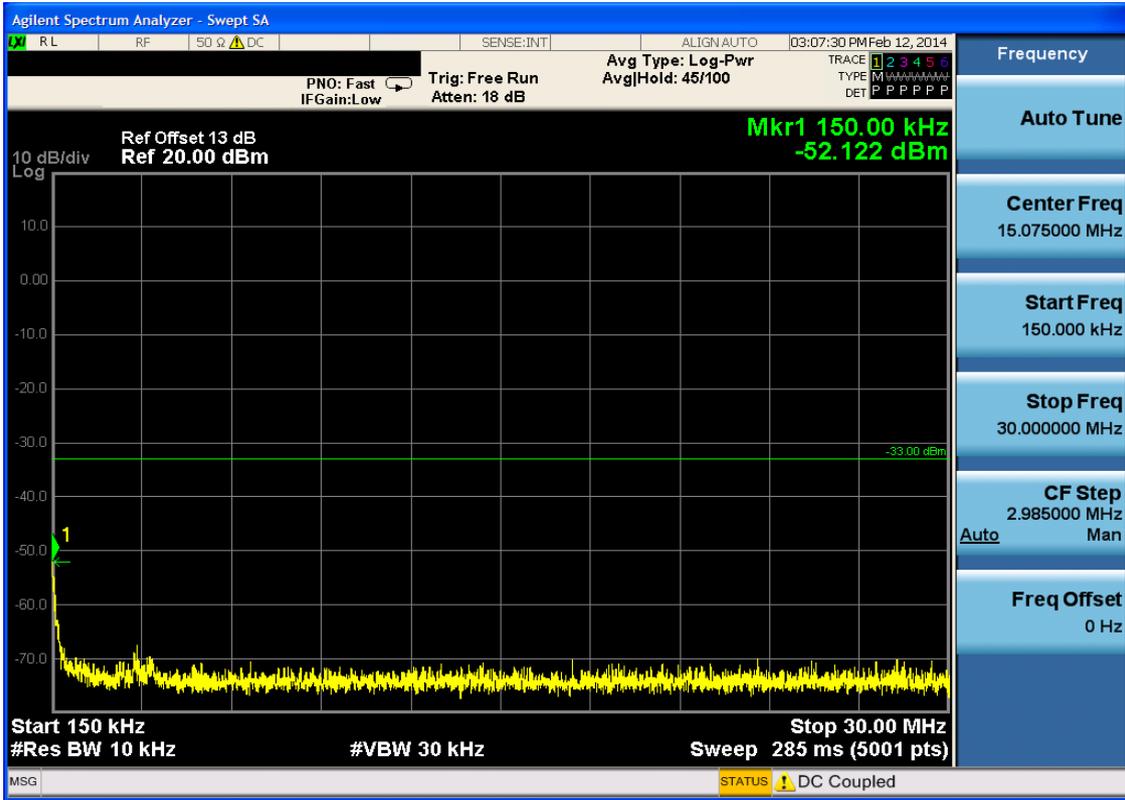






6.1.2.2.3 Test Channel = HCH









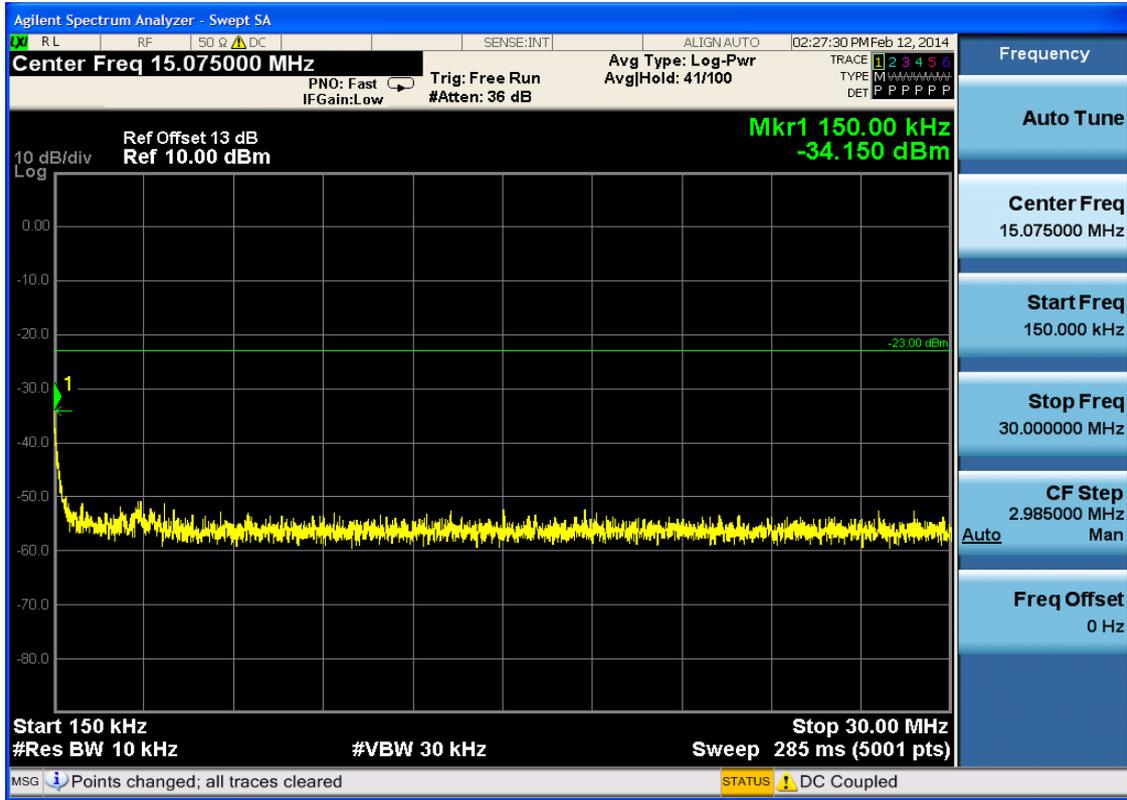
6.2 For UMTS

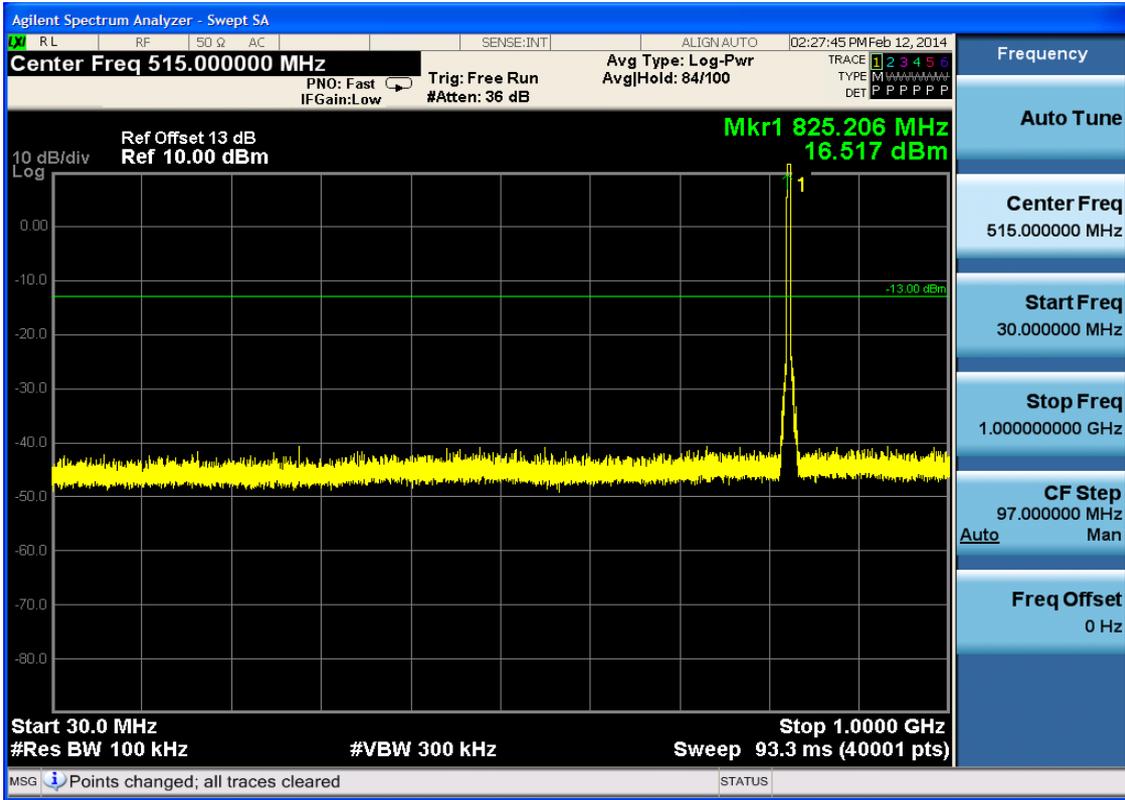
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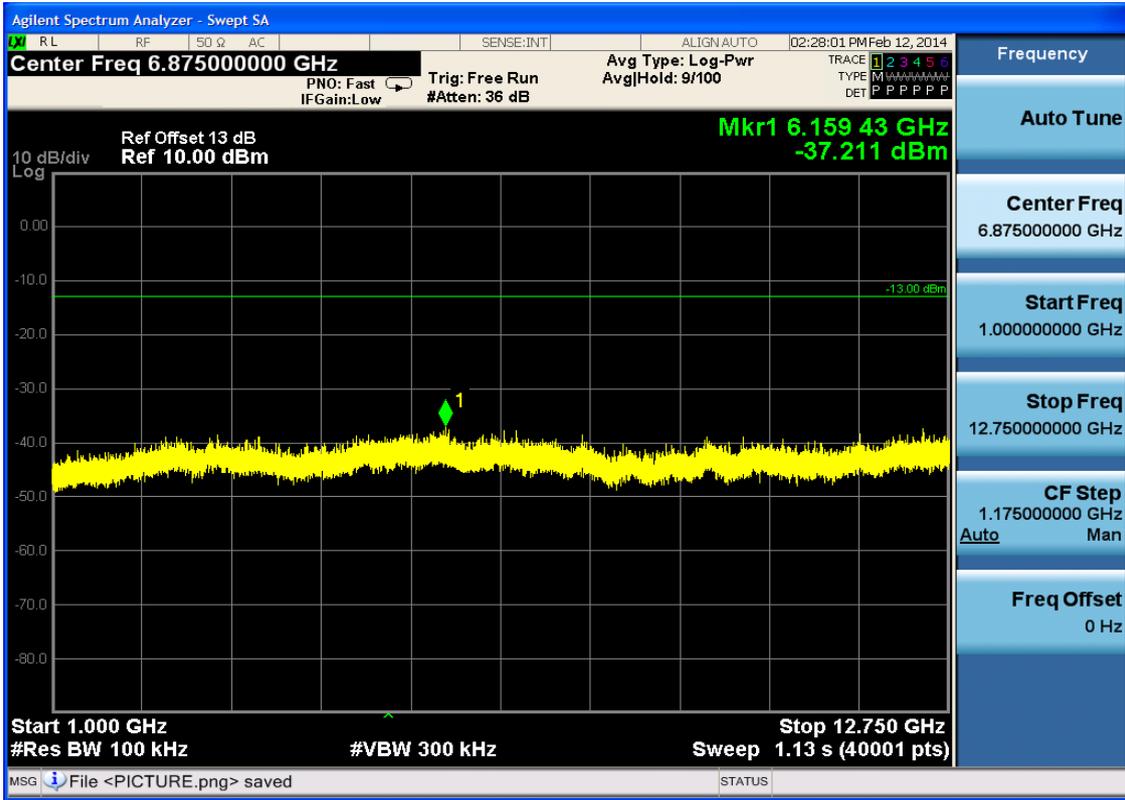
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH





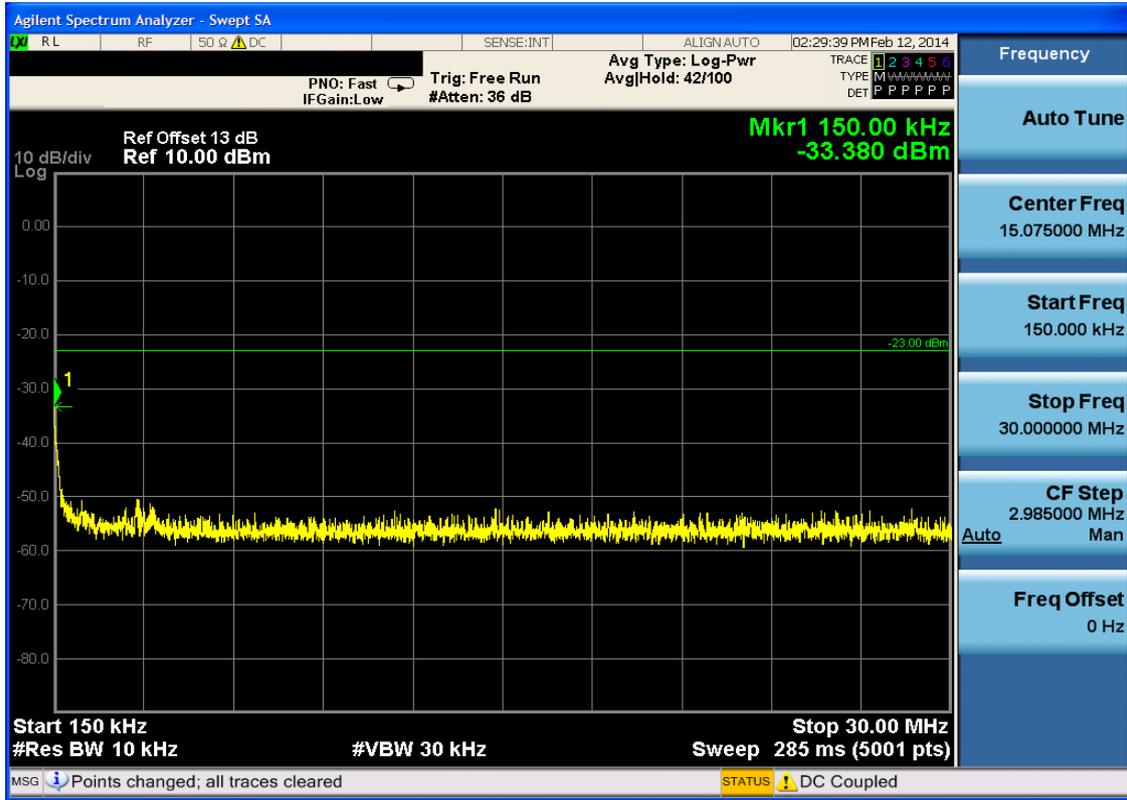


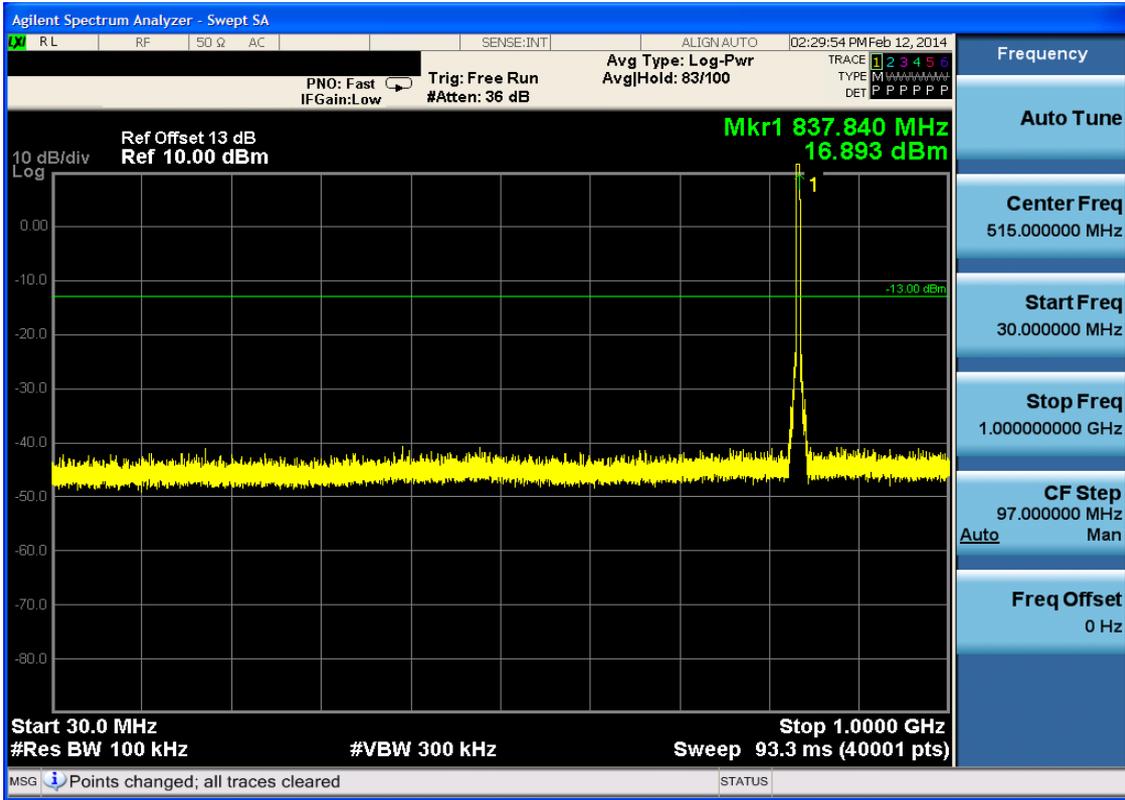


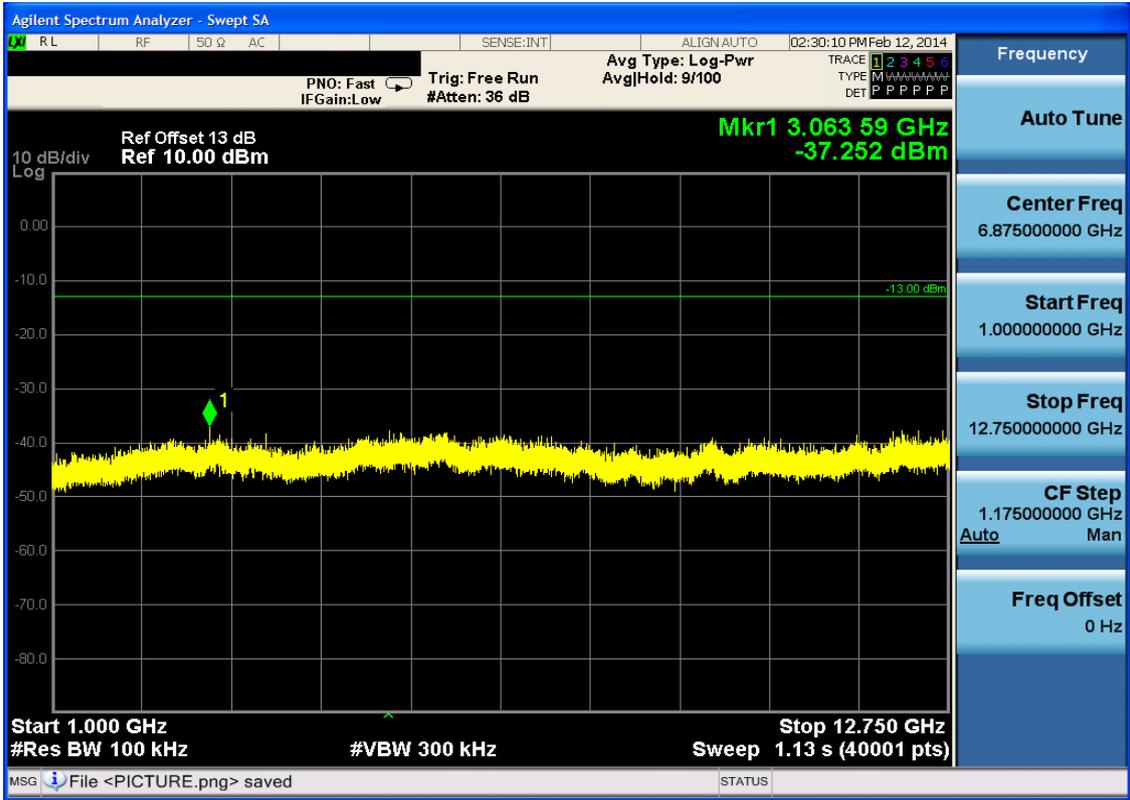


6.2.1.1.2 Test Channel = MCH





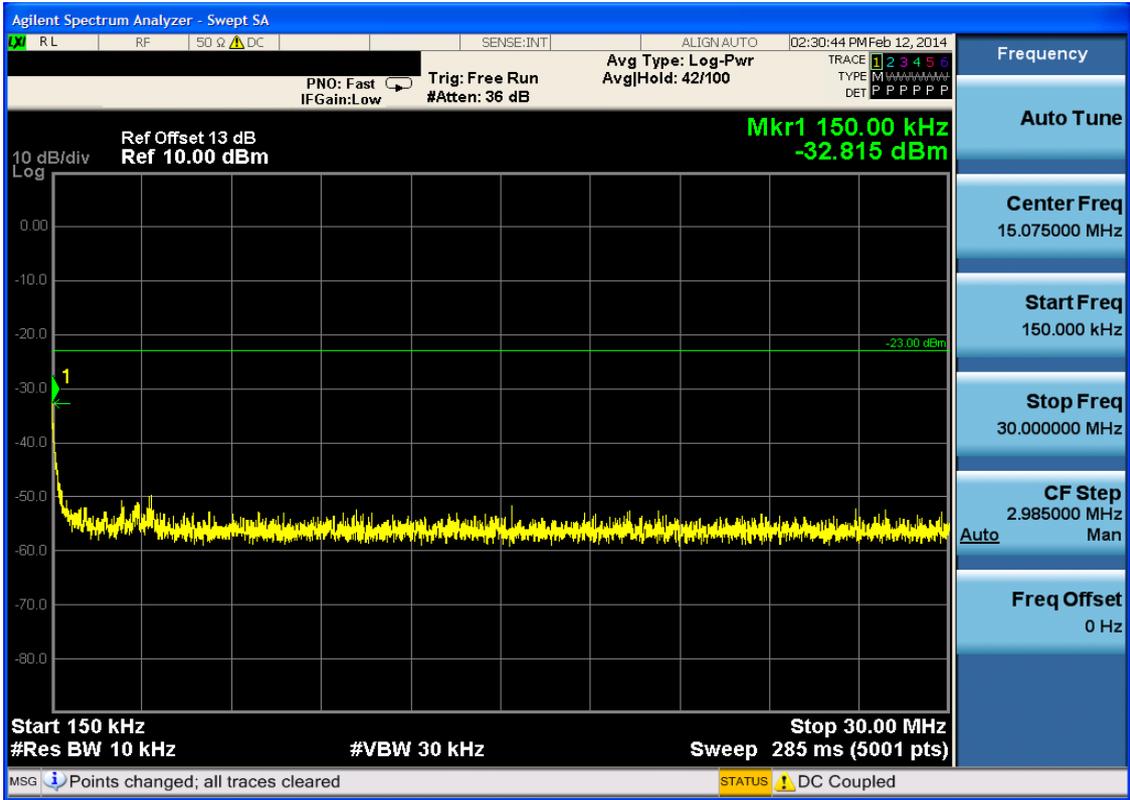


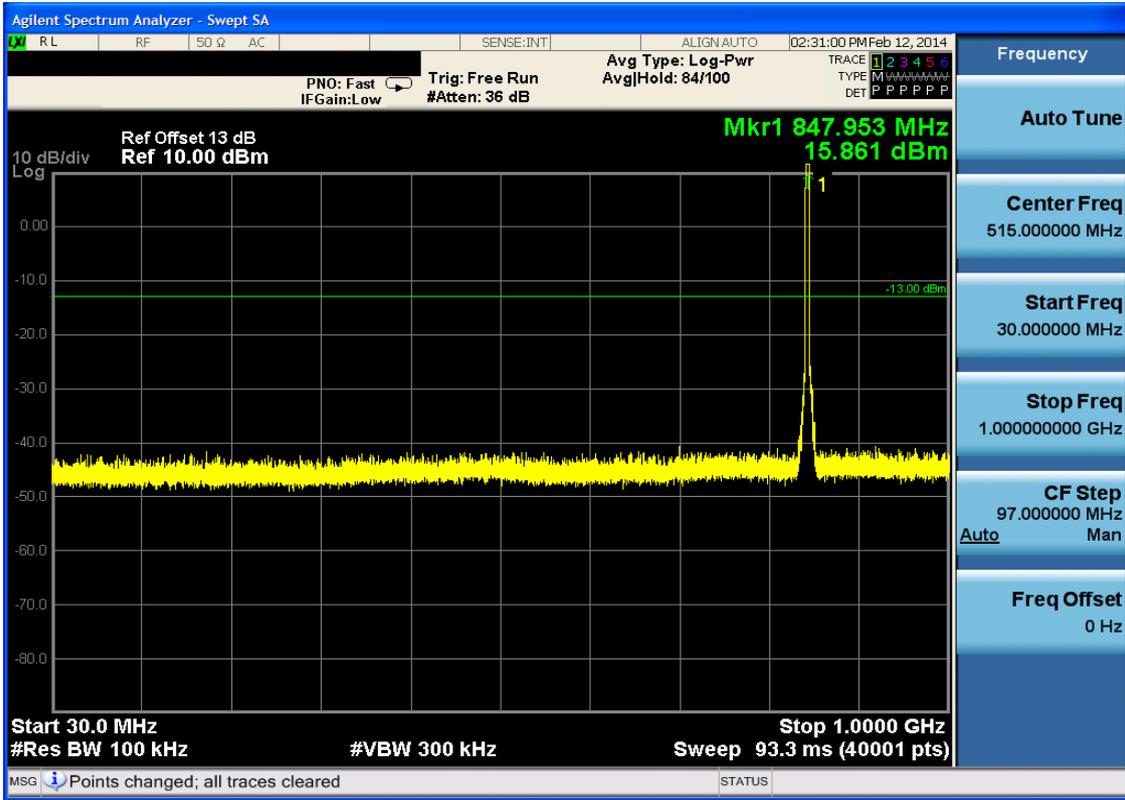


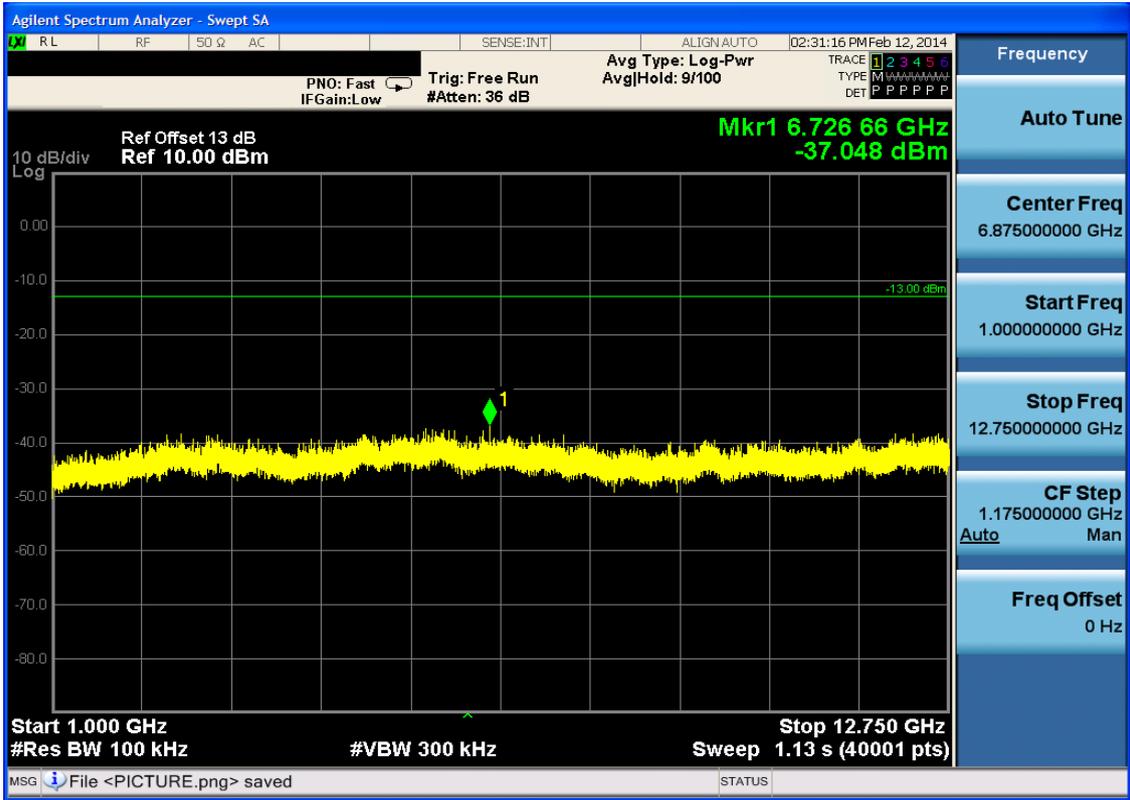


6.2.1.1.3 Test Channel = HCH







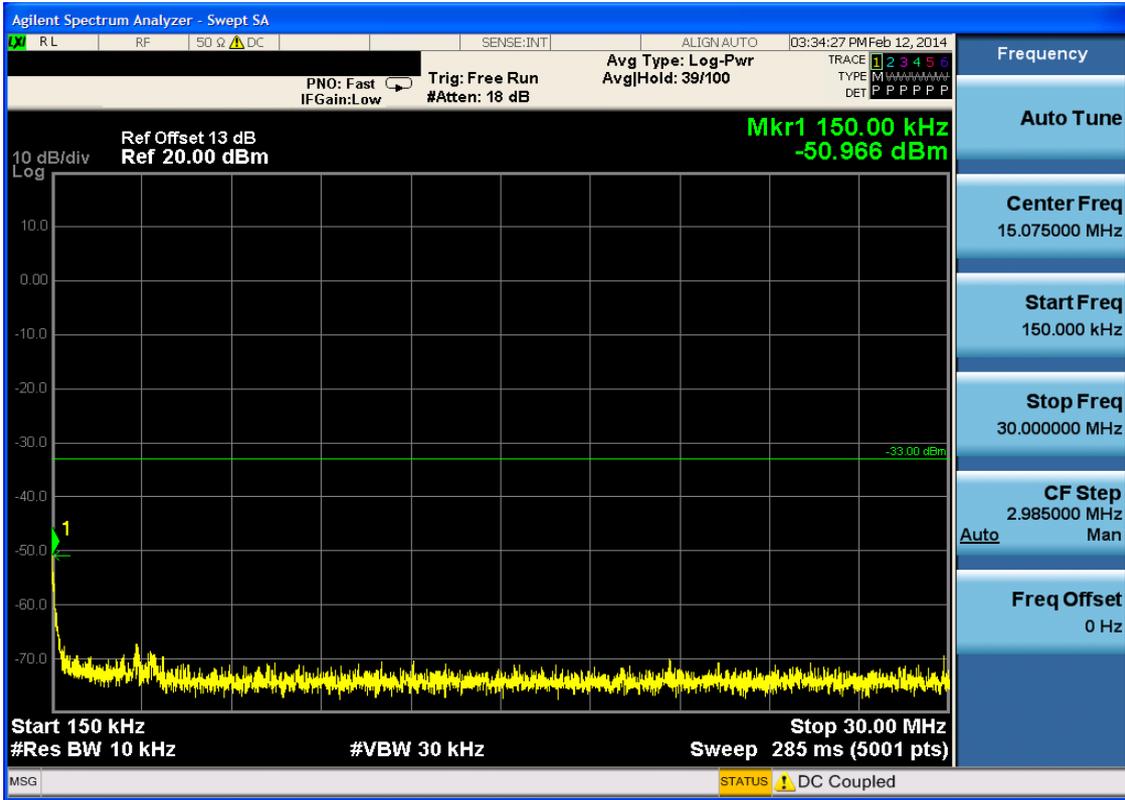


6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



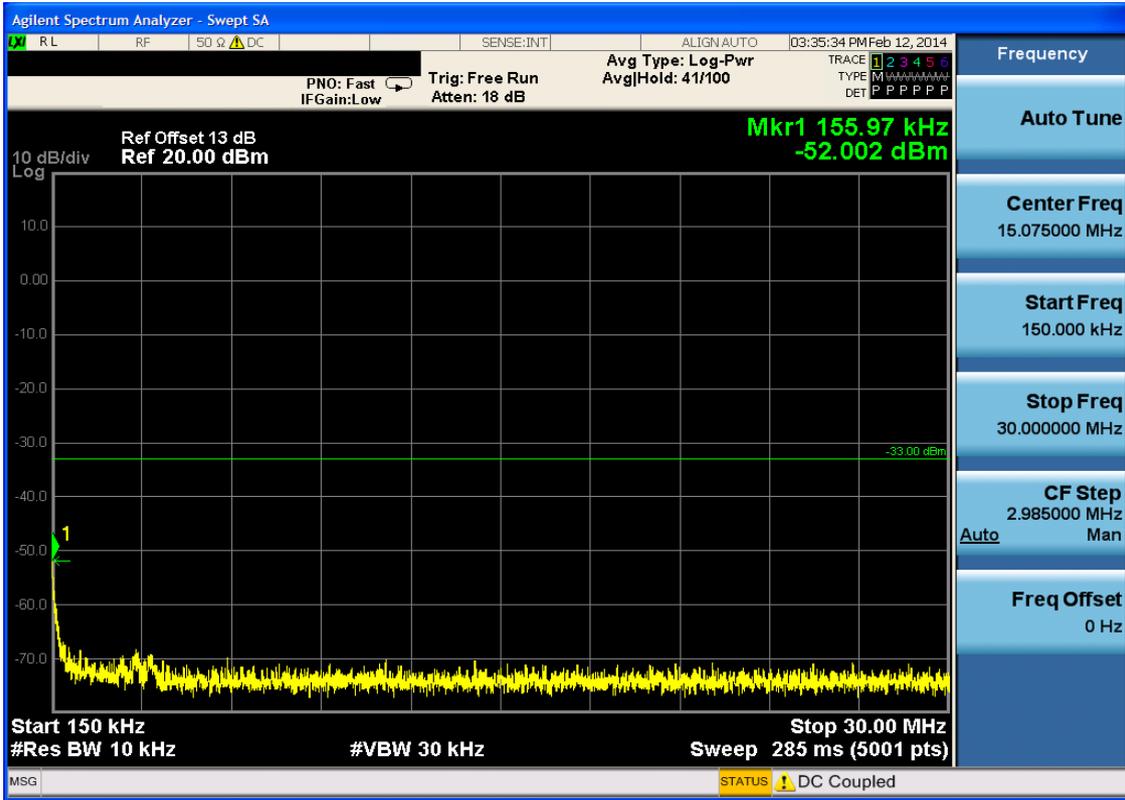


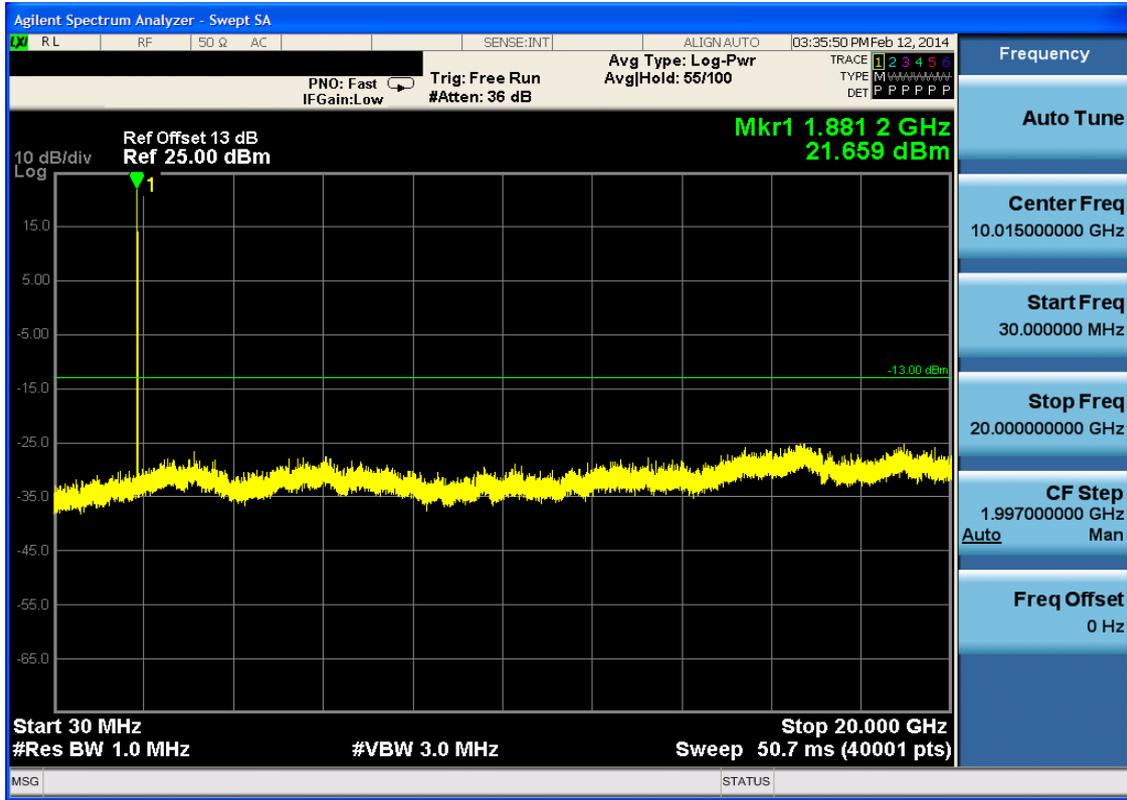




6.2.2.1.2 Test Channel = MCH

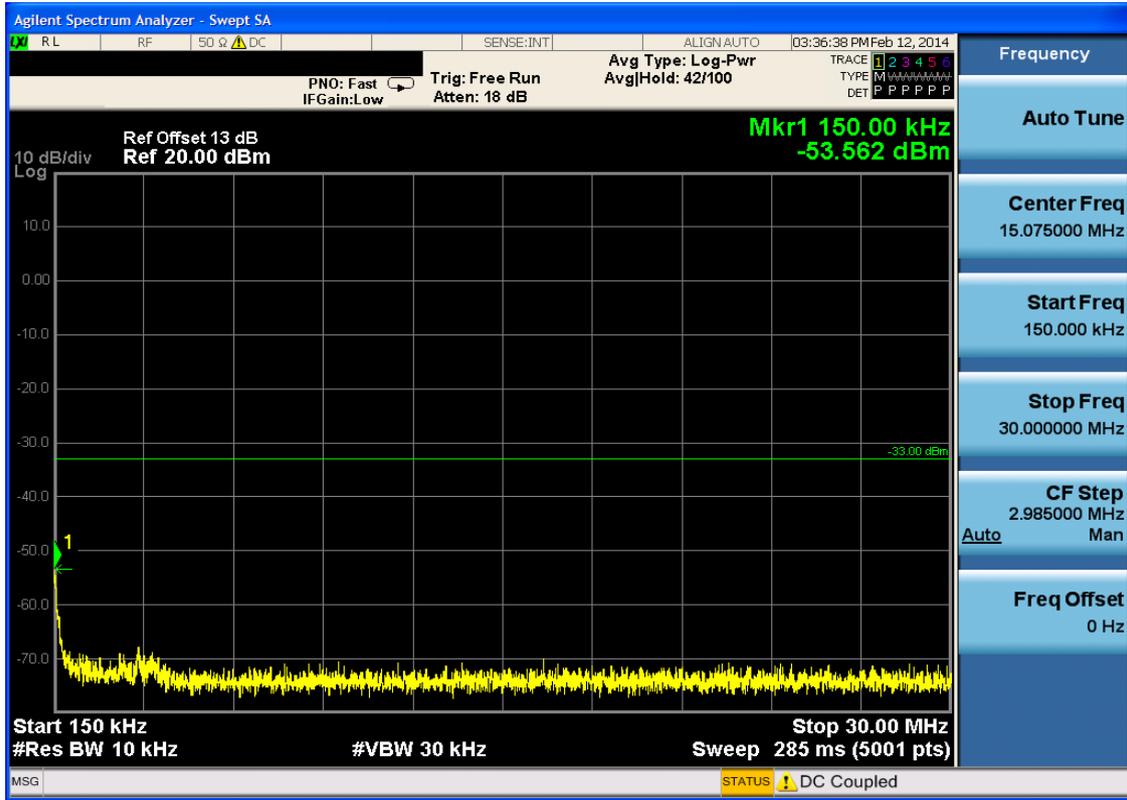






6.2.2.1.3 Test Channel = HCH







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

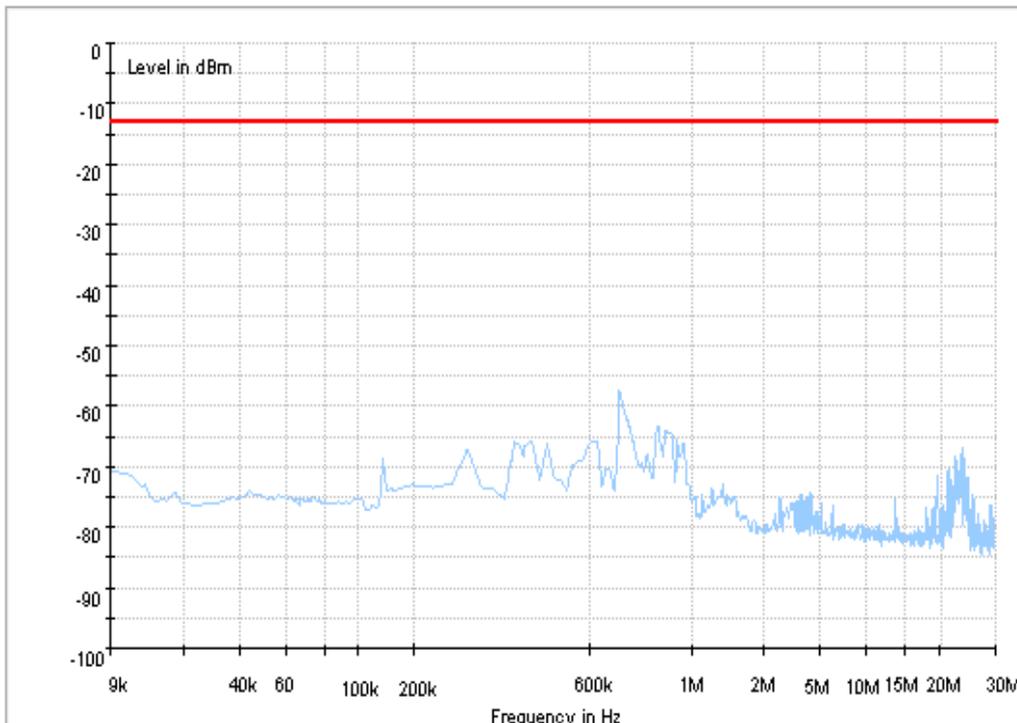
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

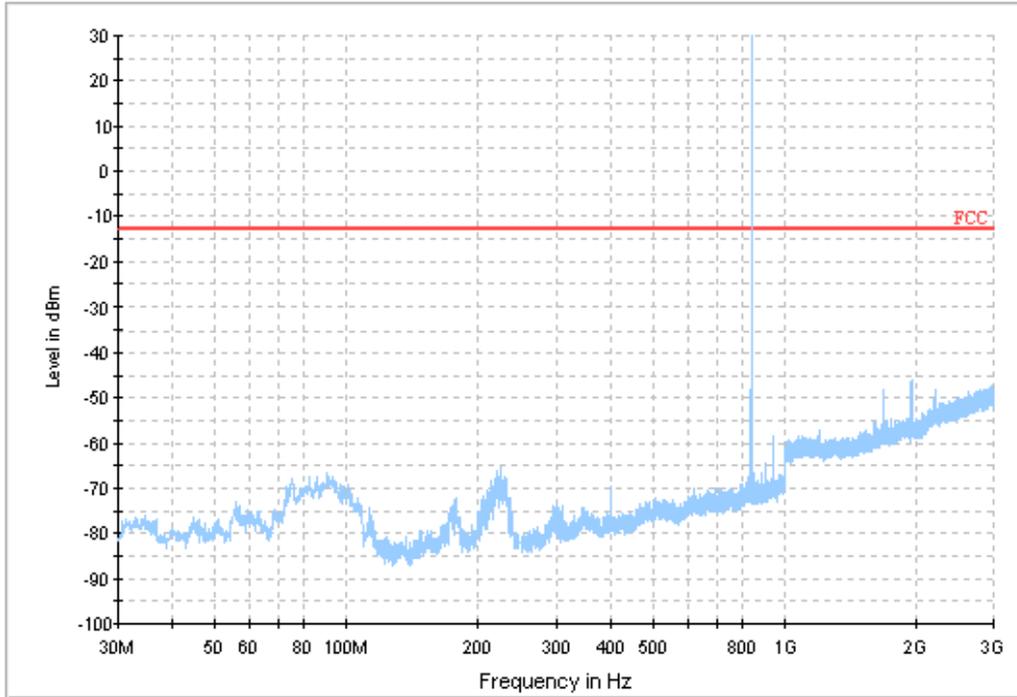
7.1 For GSM

7.1.1 Test Band = GSM850

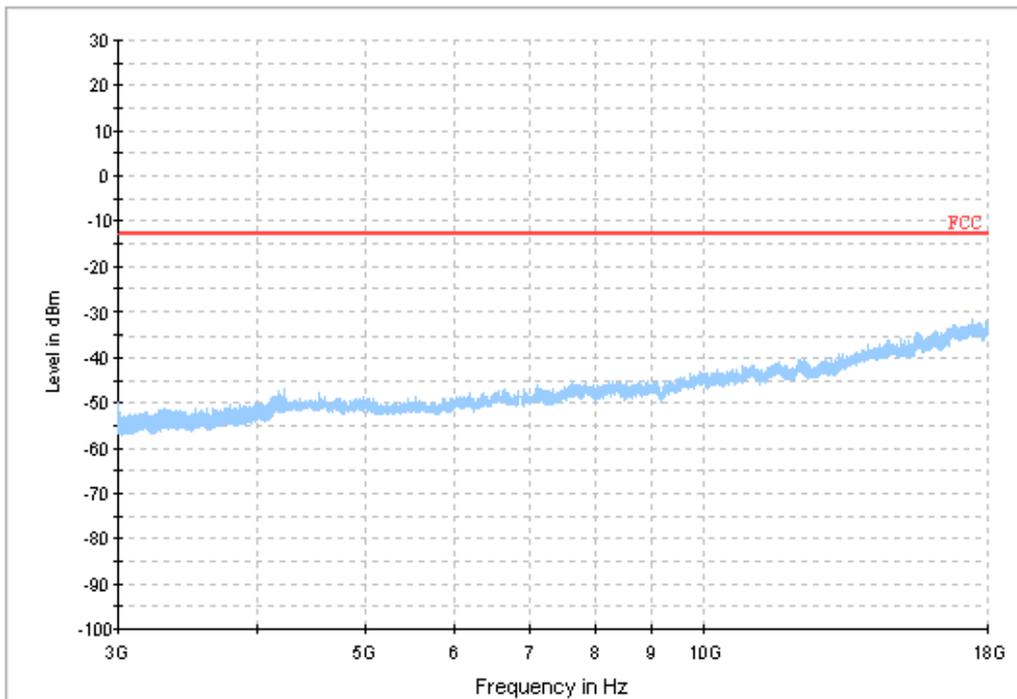
7.1.1.1 Test Mode = GSM/TM1



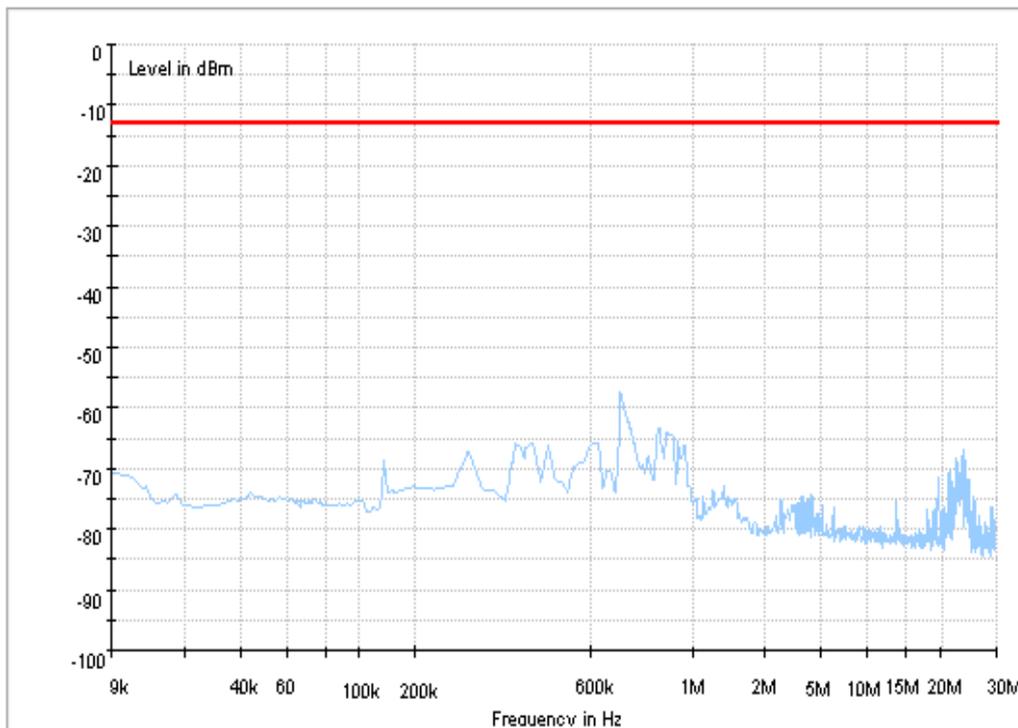
Copy of FCC PART22 GSM850_L



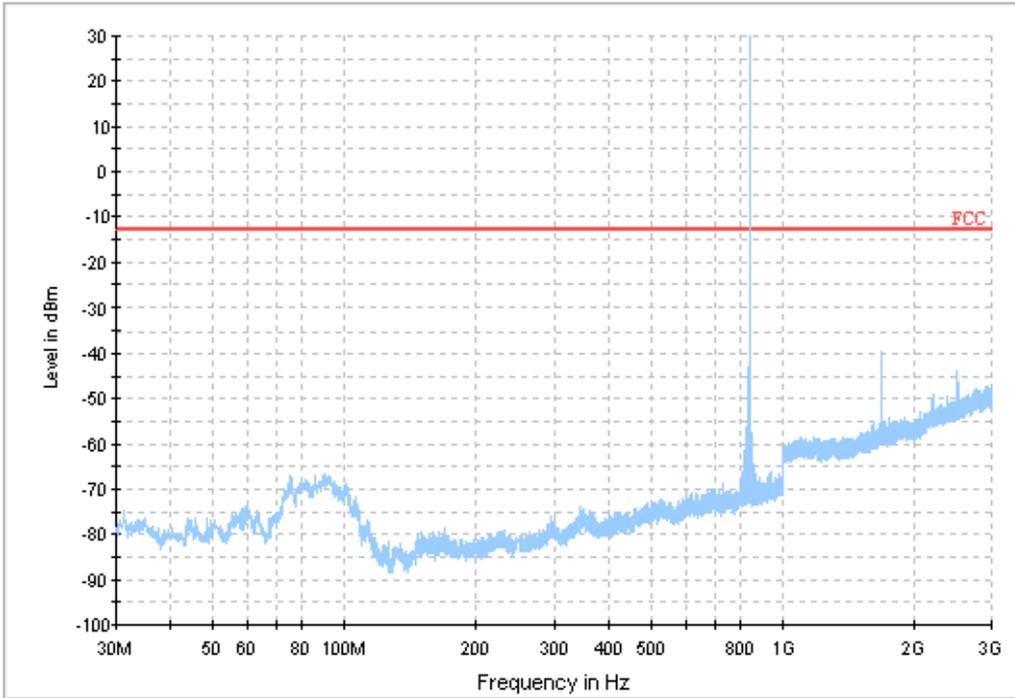
Copy of FCC PART22 GSM850_H



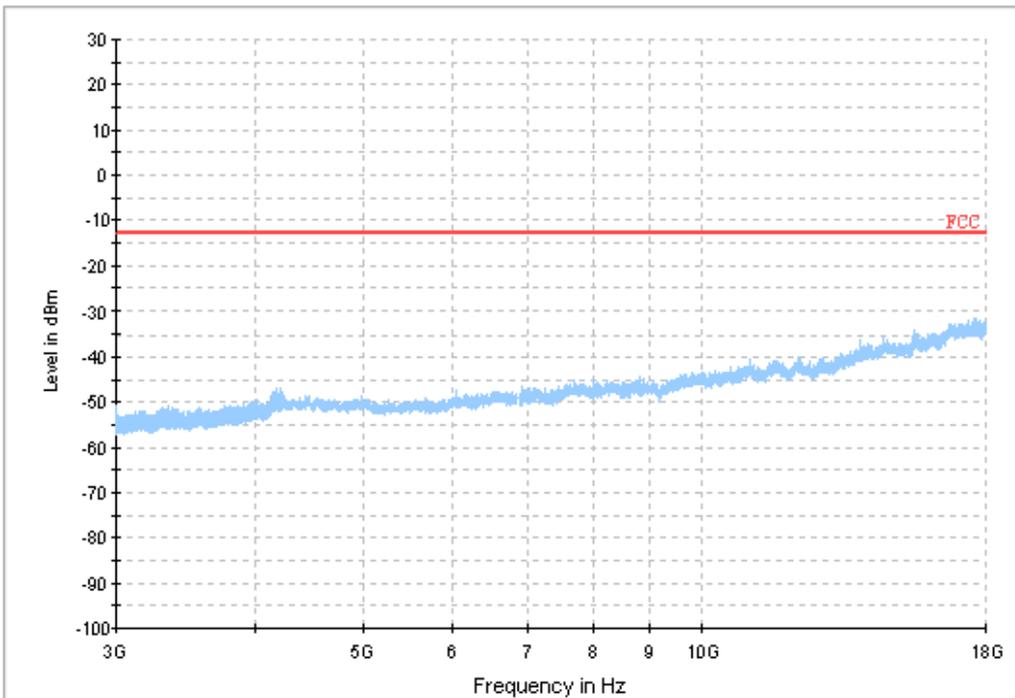
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

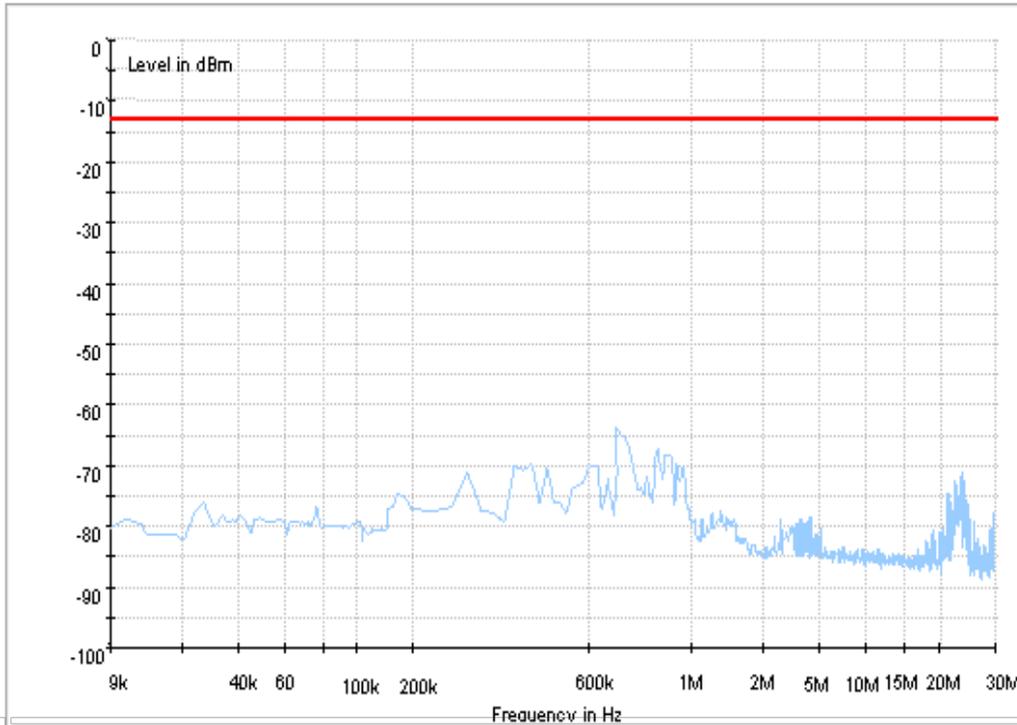


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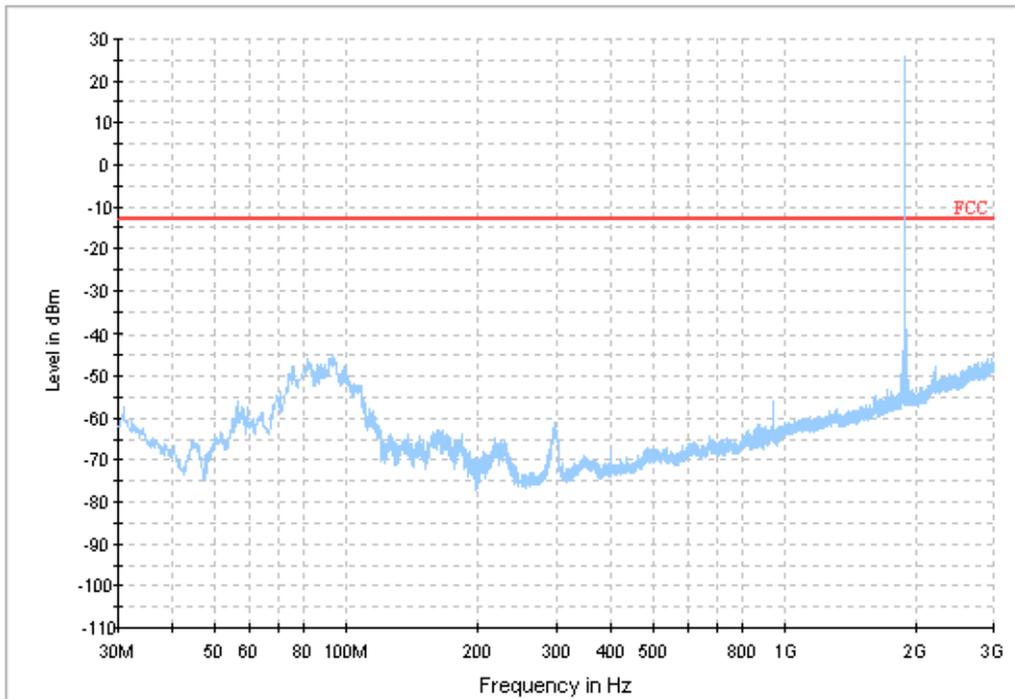


7.1.2 Test Band = GSM1900

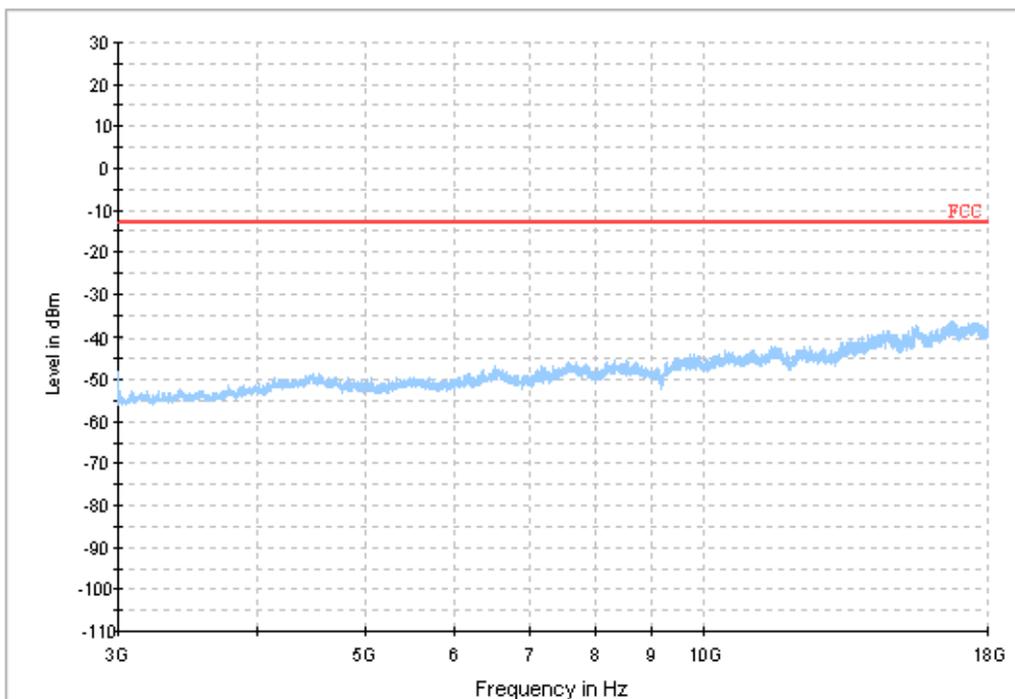
7.1.2.1 Test Mode = GSM/TM1

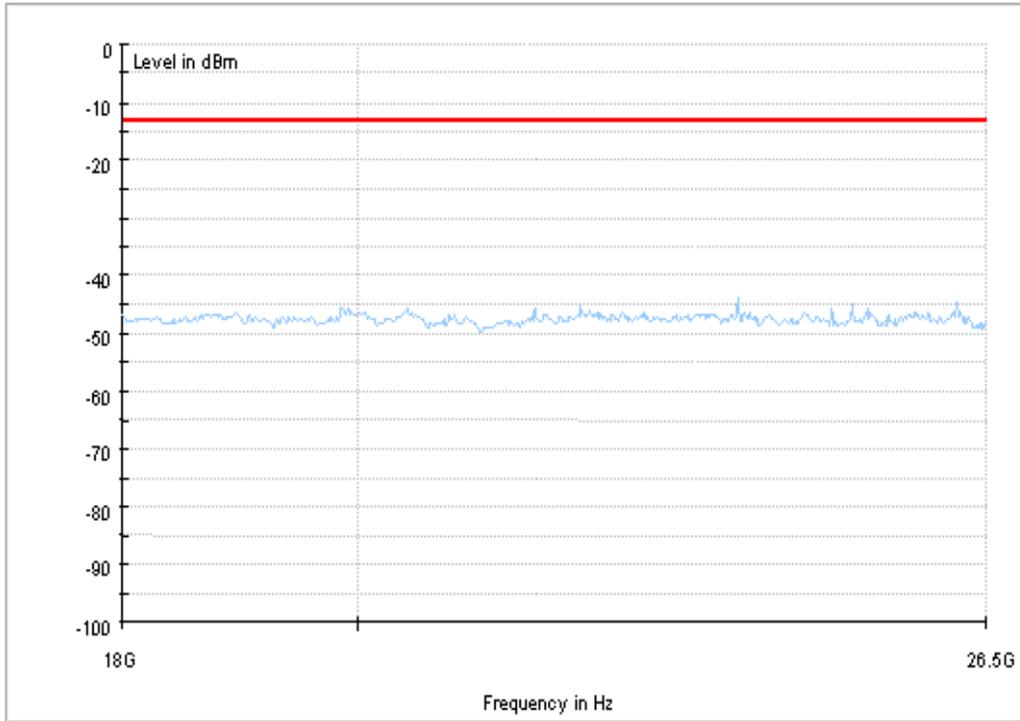


Copy of FCC PART24 GSM1900_L

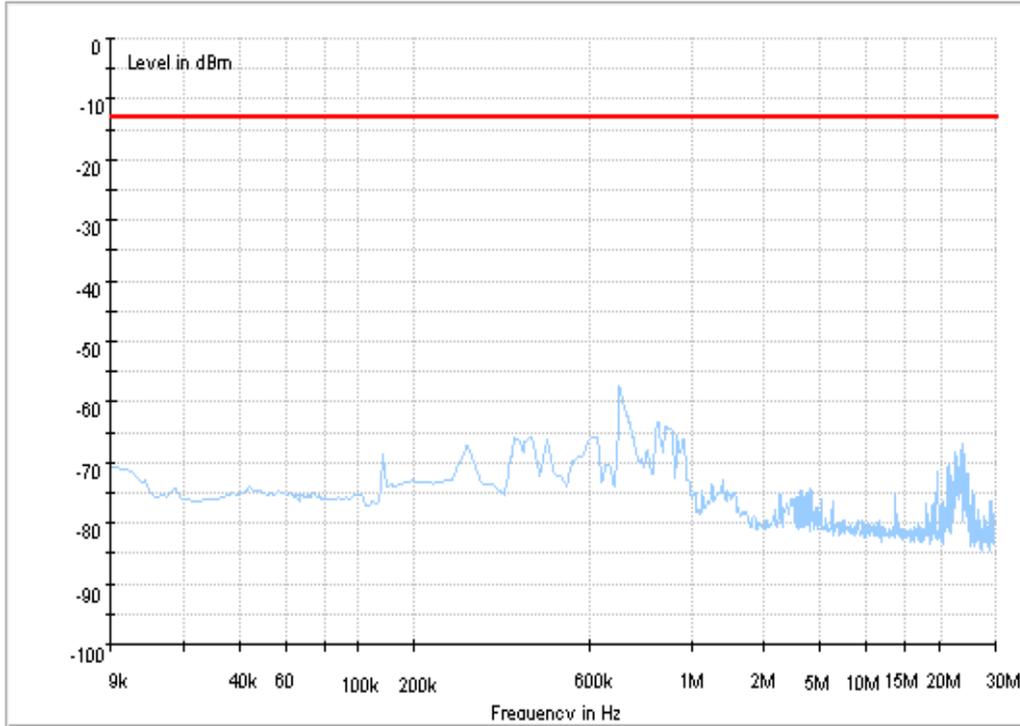


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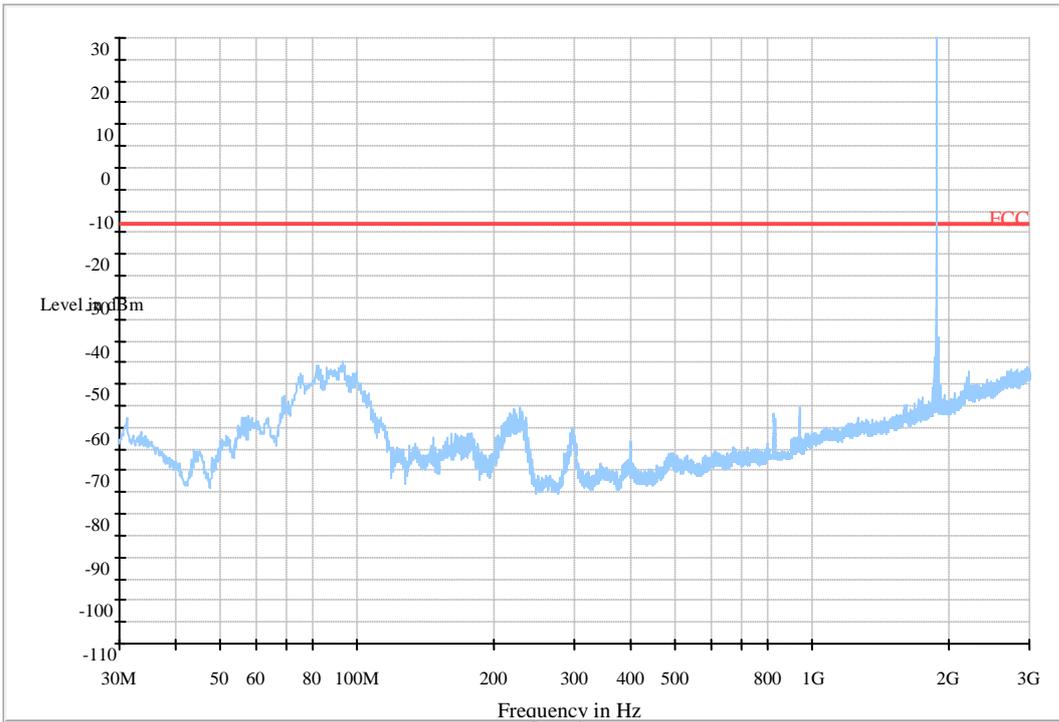




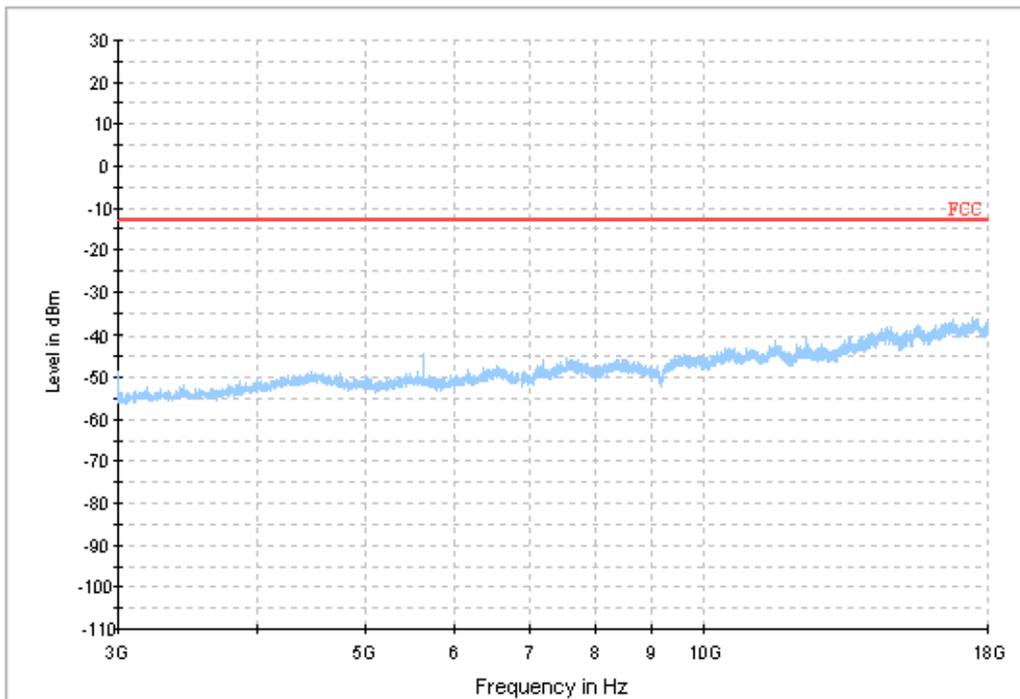
7.1.2.2 Test Mode = GSM/TM2

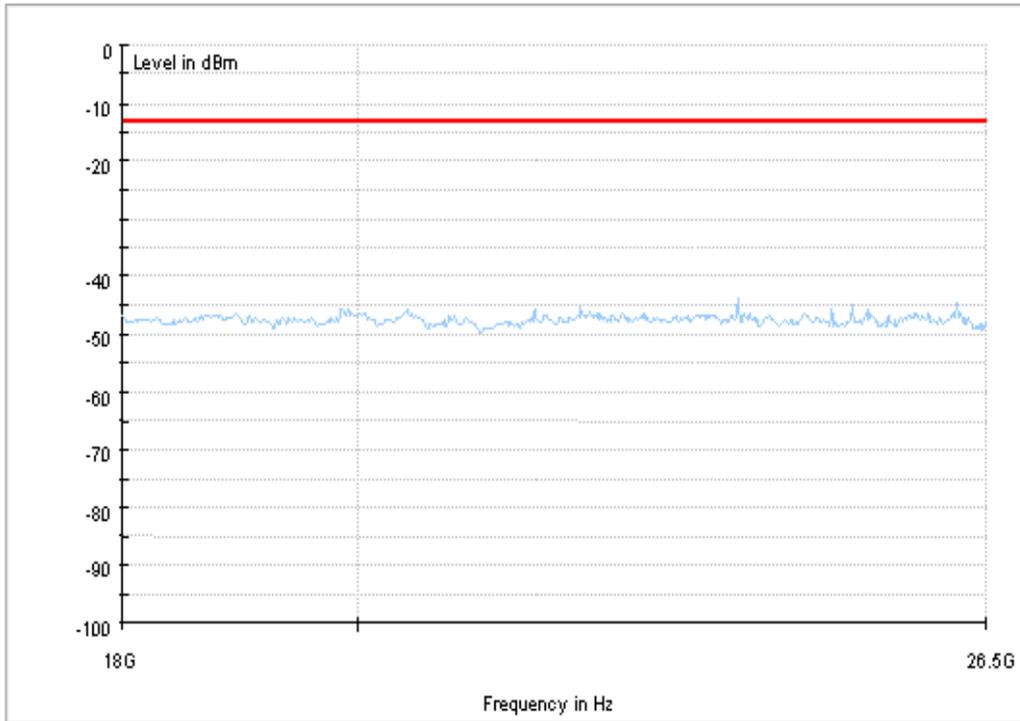


Copy of FCC PART24 GSM1900_L



Copy of FCC PART24 GSM1900_H

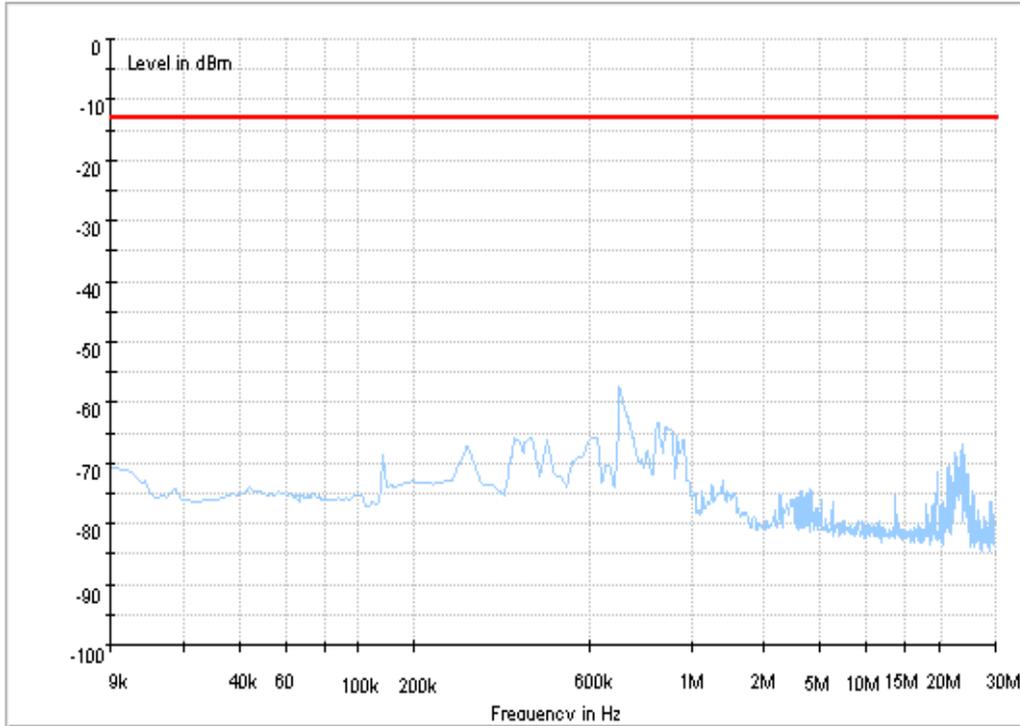




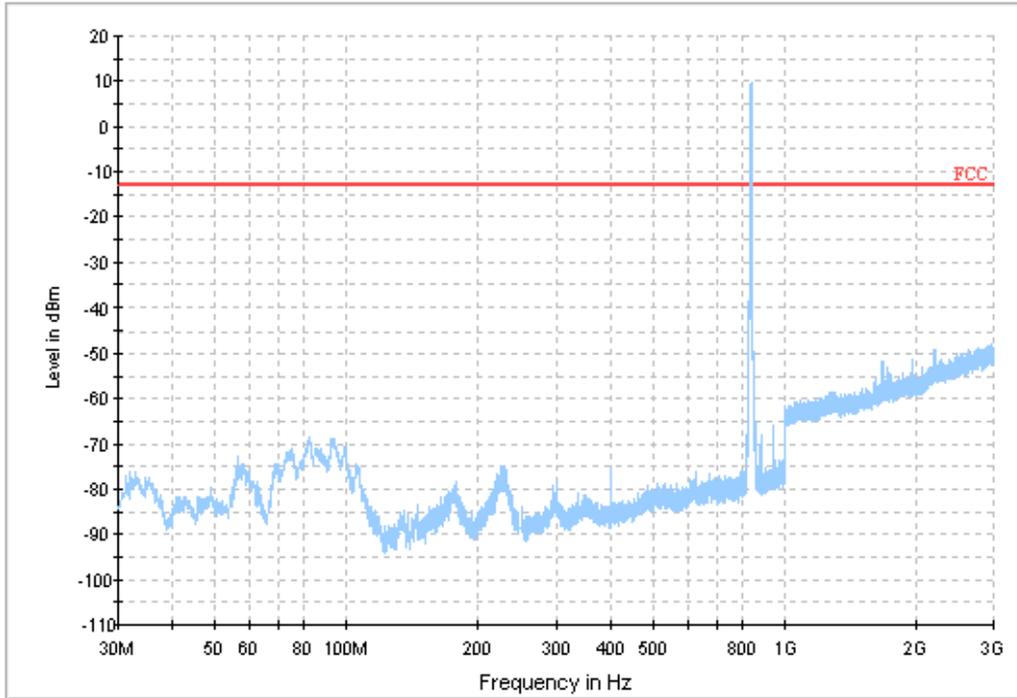
7.2 For UMTS

7.2.1 Test Band = WCDMA850

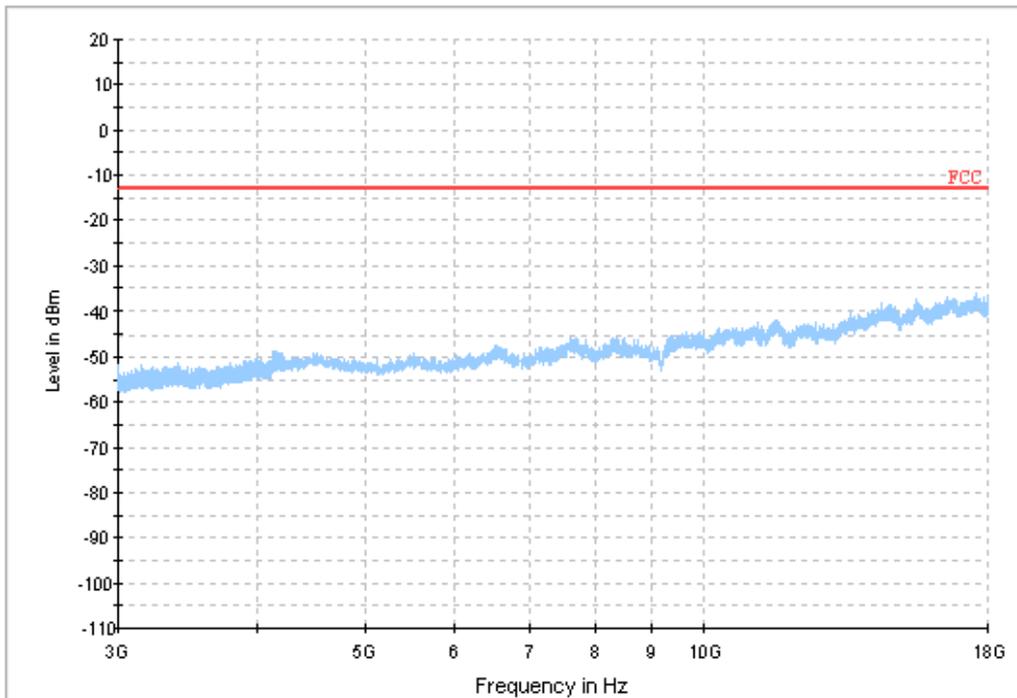
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

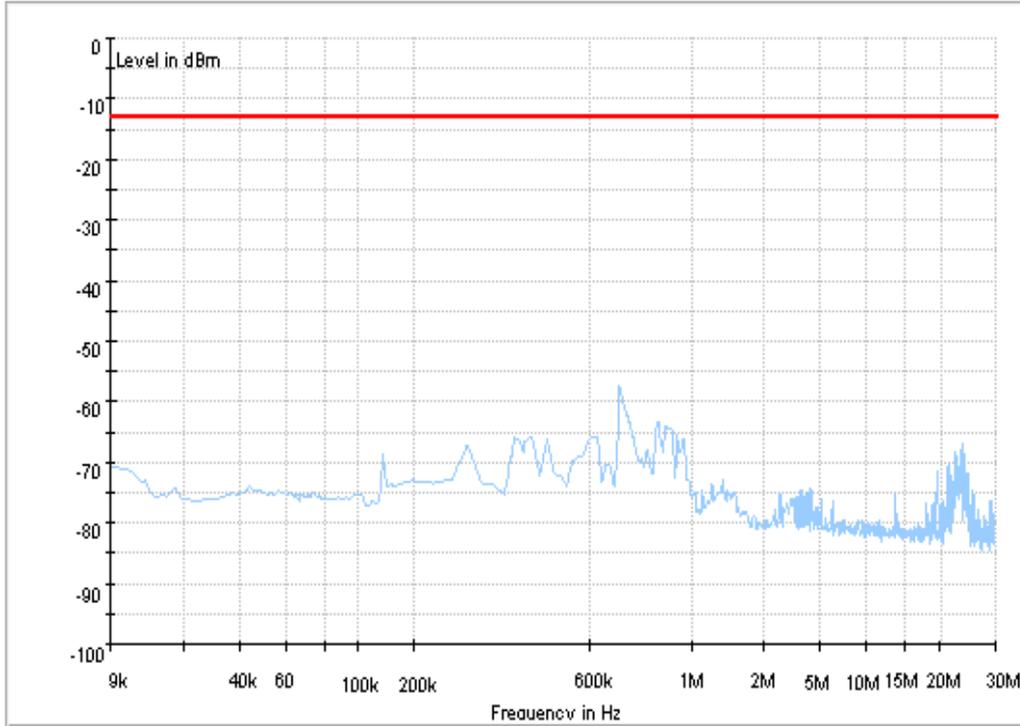


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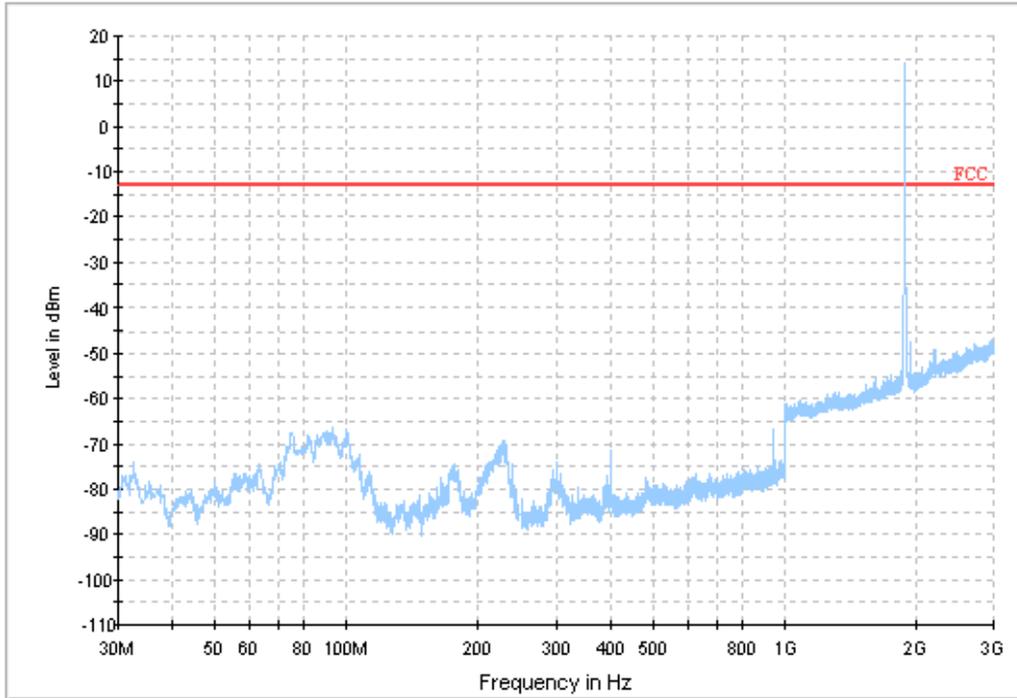


7.2.2 Test Band = WCDMA1900

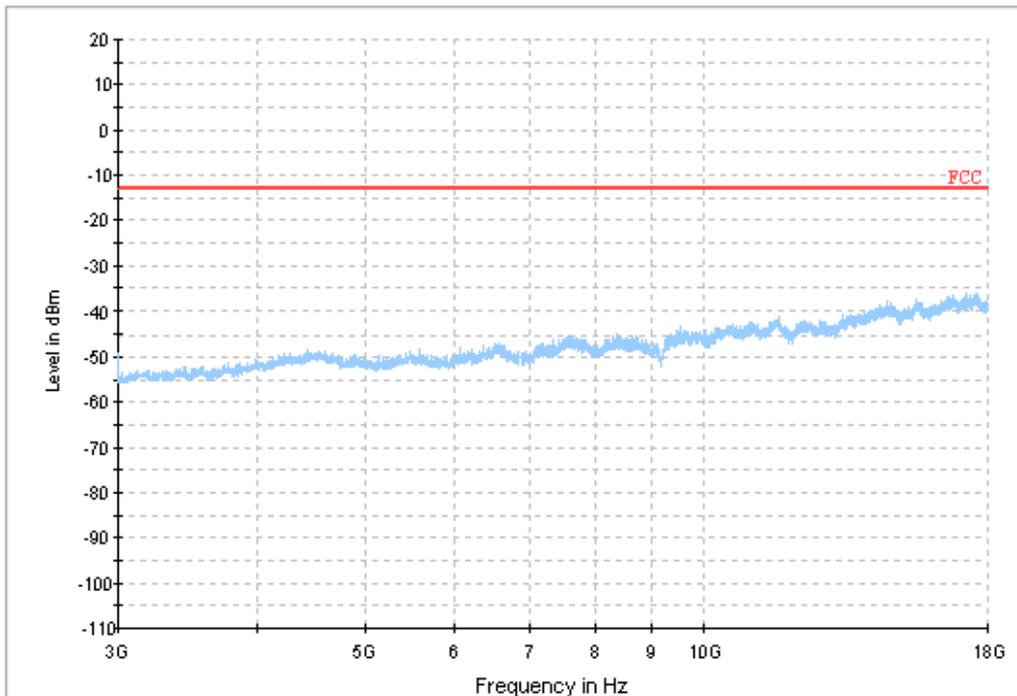
7.2.2.1 Test Mode = UMTS/TM1

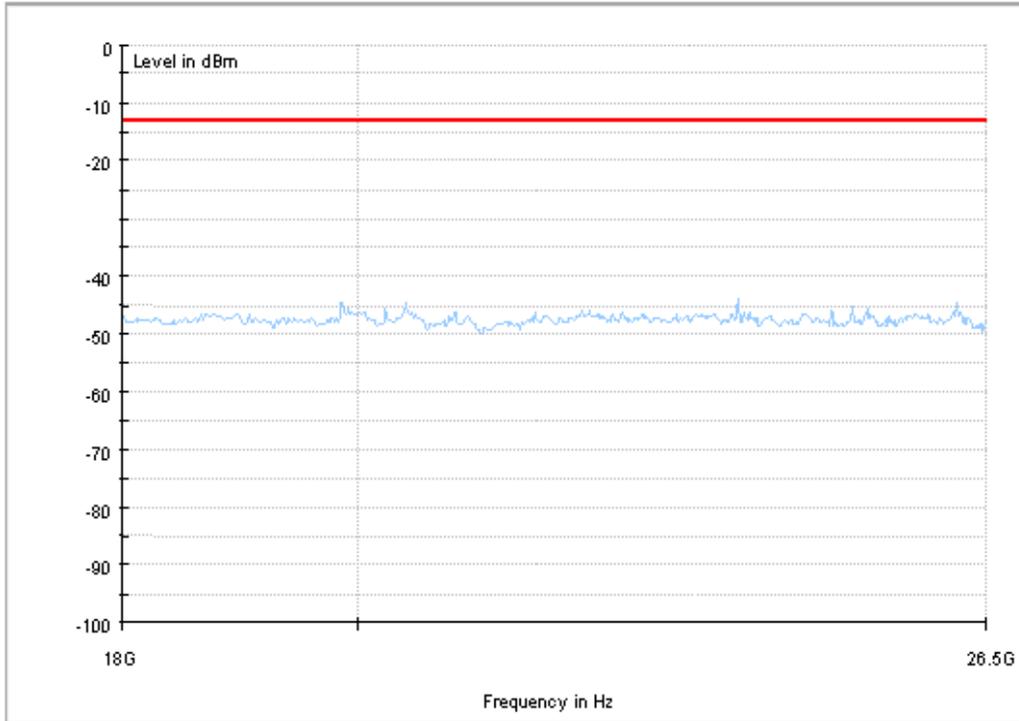


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H





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]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-27.64	-0.03354	PASS
				VN	-23.25	-0.02821	PASS
				VH	-21.7	-0.02633	PASS
		MCH	TN	VL	-18.47	-0.02208	PASS
				VN	-16.14	-0.01929	PASS
				VH	-21.5	-0.0257	PASS
		HCH	TN	VL	-22.54	-0.02656	PASS
				VN	-26.47	-0.03119	PASS
				VH	-23.57	-0.02777	PASS
	GSM/TM2	LCH	TN	VL	-23.37	-0.02835	PASS
				VN	-23.7	-0.02876	PASS
				VH	-32.12	-0.03897	PASS
		MCH	TN	VL	-27.51	-0.03288	PASS
				VN	-34.93	-0.04175	PASS
				VH	-33.84	-0.04045	PASS
		HCH	TN	VL	-23.08	-0.02719	PASS
				VN	-24.86	-0.02929	PASS
				VH	-38.84	-0.04576	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-59.41	-0.03211	PASS
				VN	-60.31	-0.0326	PASS
				VH	-55.85	-0.03019	PASS
		MCH	TN	VL	-33.84	-0.018	PASS
				VN	-33.38	-0.01776	PASS
				VH	-28.41	-0.01511	PASS
		HCH	TN	VL	-41.52	-0.02174	PASS
				VN	-41	-0.02147	PASS
				VH	-73.22	-0.03834	PASS
	GSM/TM2	LCH	TN	VL	-71.09	-0.03842	PASS
				VN	-73.45	-0.0397	PASS
				VH	-62.73	-0.0339	PASS
		MCH	TN	VL	-48.91	-0.02602	PASS
				VN	-54.11	-0.02878	PASS
				VH	-54.11	-0.02878	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	-56.89	-0.03026	PASS
		HCH	TN	VL	-50.72	-0.02656	PASS
				VN	-44.46	-0.02328	PASS
				VH	-54.24	-0.0284	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	-26.15	-0.03173	PASS
				-20	-24.21	-0.02937	PASS
				-10	-26.15	-0.03173	PASS
				0	-26.93	-0.03267	PASS
				10	-25.76	-0.03125	PASS
				20	-20.79	-0.02522	PASS
				30	-23.83	-0.02891	PASS
				40	-23.18	-0.02812	PASS
		50	-23.76	-0.02883	PASS		
		MCH	VN	-30	-17.76	-0.02123	PASS
				-20	-16.53	-0.01976	PASS
				-10	-13.56	-0.01621	PASS
				0	-18.14	-0.02168	PASS
				10	-18.47	-0.02208	PASS
				20	-17.5	-0.02092	PASS
				30	-19.95	-0.02385	PASS
				40	-40.62	-0.04855	PASS
		50	-5.49	-0.00656	PASS		
		HCH	VN	-30	-26.09	-0.03074	PASS
				-20	-22.41	-0.0264	PASS
				-10	-26.8	-0.03157	PASS
				0	-22.6	-0.02663	PASS
				10	-23.83	-0.02807	PASS
				20	-24.15	-0.02845	PASS
	30			-18.08	-0.0213	PASS	
	40			-19.82	-0.02335	PASS	
	50	-21.95	-0.02586	PASS			
	GSM/TM2	LCH	VN	-30	-25.57	-0.03102	PASS
				-20	-27.12	-0.0329	PASS
				-10	-27.28	-0.0331	PASS
				0	-28.09	-0.03408	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	-23.76	-0.02883	PASS
				20	-25.38	-0.03079	PASS
				30	-20.28	-0.02461	PASS
				40	-29.83	-0.03619	PASS
				50	-32.9	-0.03992	PASS
		MCH	VN	-30	-28.64	-0.03423	PASS
				-20	-26.51	-0.03169	PASS
				-10	-26.18	-0.03129	PASS
				0	-28.09	-0.03358	PASS
				10	-30.54	-0.0365	PASS
				20	-25.12	-0.03003	PASS
				30	-25.05	-0.02994	PASS
				40	-28.12	-0.03361	PASS
				50	-30.35	-0.03628	PASS
		HCH	VN	-30	-34.9	-0.04112	PASS
				-20	-29.99	-0.03533	PASS
				-10	-26.7	-0.03146	PASS
				0	-19.24	-0.02267	PASS
				10	-23.37	-0.02753	PASS
				20	-27.31	-0.03217	PASS
				30	-24.44	-0.02879	PASS
				40	-24.34	-0.02868	PASS
		50	-26.28	-0.03096	PASS		
		GSM1900	GSM/TM1	LCH	VN	-30	-54.3
-20	-57.99					-0.03134	PASS
-10	-59.66					-0.03225	PASS
0	-62.38					-0.03372	PASS
10	-61.8					-0.0334	PASS
20	-57.92					-0.0313	PASS
30	-57.21					-0.03092	PASS
40	-51.01					-0.02757	PASS
50	-58.63					-0.03169	PASS
MCH	VN			-30	-26.99	-0.01436	PASS
				-20	-28.61	-0.01522	PASS
				-10	-35.84	-0.01906	PASS
				0	-37.97	-0.0202	PASS
				10	-33.84	-0.018	PASS
				20	-36.42	-0.01937	PASS
				30	-24.8	-0.01319	PASS
				40	-29.51	-0.0157	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	50	-32.35	-0.01721	PASS
				-30	-50.37	-0.02637	PASS
				-20	-43	-0.02252	PASS
				-10	-43.39	-0.02272	PASS
				0	-32.93	-0.01724	PASS
				10	-43	-0.02252	PASS
				20	-40.87	-0.0214	PASS
				30	-37.06	-0.01941	PASS
				40	-38.68	-0.02025	PASS
				50	-43.72	-0.02289	PASS
	GSM/TM2	LCH	VN	-30	-60.02	-0.03244	PASS
				-20	-69.61	-0.03762	PASS
				-10	-63.54	-0.03434	PASS
				0	-64.28	-0.03474	PASS
				10	-58.08	-0.03139	PASS
				20	-56.11	-0.03033	PASS
				30	-67.38	-0.03642	PASS
				40	-59.99	-0.03242	PASS
				50	-60.83	-0.03288	PASS
				MCH	VN	-30	-38.52
		-20	-62.6			-0.0333	PASS
		-10	-50.75			-0.02699	PASS
		0	-49.82			-0.0265	PASS
		10	-52.59			-0.02797	PASS
		20	-63.76			-0.03391	PASS
		30	-46.14			-0.02454	PASS
		40	-47.17			-0.02509	PASS
		50	-45.3			-0.0241	PASS
		HCH	VN			-30	-50.59
				-20	-57.05	-0.02987	PASS
				-10	-49.98	-0.02617	PASS
				0	-61.67	-0.03229	PASS
				10	-43.36	-0.0227	PASS
				20	-47.72	-0.02499	PASS
				30	-49.37	-0.02585	PASS
				40	-59.15	-0.03097	PASS
				50	-48.11	-0.02519	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	-12.47	-0.01509	PASS
				VN	-13.73	-0.01661	PASS
				VH	2.73	0.0033	PASS
		MCH	TN	VL	9.37	0.0112	PASS
				VN	9.63	0.01151	PASS
				VH	-9.03	-0.0108	PASS
		HCH	TN	VL	1.31	0.00155	PASS
				VN	-11.35	-0.01341	PASS
				VH	-2.3	-0.00272	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	3.2	0.00173	PASS
				VN	0.34	0.00018	PASS
				VH	3.54	0.00191	PASS
		MCH	TN	VL	3.97	0.00211	PASS
				VN	1.63	0.00087	PASS
				VH	-9.95	-0.00529	PASS
		HCH	TN	VL	-9.51	-0.00499	PASS
				VN	7.61	0.00399	PASS
				VH	-3.62	-0.0019	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	-8.82	-0.01067	PASS
				-20	-16.48	-0.01994	PASS
				-10	0.99	0.0012	PASS
				0	-9.86	-0.01193	PASS
				10	-0.2	-0.00024	PASS
				20	1.48	0.00179	PASS
				30	20.52	0.02483	PASS
				40	-10.39	-0.01257	PASS
				50	-3.78	-0.00457	PASS
		MCH	VN	-30	7.95	0.00951	PASS
				-20	-15.24	-0.01822	PASS
				-10	2.29	0.00274	PASS
				0	-0.63	-0.00075	PASS
				10	-2.15	-0.00257	PASS
				20	-13.5	-0.01614	PASS
				30	2	0.00239	PASS
				40	-4.24	-0.00507	PASS
				50	-8.91	-0.01065	PASS
		HCH	VN	-30	-8.93	-0.01055	PASS
				-20	-14.8	-0.01748	PASS
				-10	1.71	0.00202	PASS
				0	19.39	0.0229	PASS
				10	-3.3	-0.0039	PASS
				20	-11.81	-0.01395	PASS
30	-6.74			-0.00796	PASS		
40	7.08			0.00836	PASS		
50	8.19			0.00967	PASS		
WCDMA1900	UMTS/TM1	LCH	VN	-30	-1.94	-0.00105	PASS
				-20	11.25	0.00607	PASS
				-10	15.53	0.00838	PASS
				0	9.89	0.00534	PASS
				10	0.27	0.00015	PASS
				20	2.88	0.00155	PASS
				30	1.56	0.00084	PASS
				40	7.87	0.00425	PASS
				50	-1.05	-0.00057	PASS
		MCH	VN	-30	-3.71	-0.00197	PASS
				-20	0.58	0.00031	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-10	3.83	0.00204	PASS
				0	-1.42	-0.00076	PASS
				10	-6.3	-0.00335	PASS
				20	-1.45	-0.00077	PASS
				30	-2.46	-0.00131	PASS
				40	4.73	0.00252	PASS
				50	2	0.00106	PASS
		HCH	VN	-30	-16.07	-0.00842	PASS
				-20	3.34	0.00175	PASS
				-10	-0.38	-0.0002	PASS
				0	-1.46	-0.00077	PASS
				10	2.04	0.00107	PASS
				20	0.38	0.0002	PASS
				30	1.16	0.00061	PASS
				40	-1.83	-0.00096	PASS
				50	-3.97	-0.00208	PASS

END