

Appendix B

CDMA BC0

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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

For ANT1:

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP [dBm]	Limit[dBm]	Verdict
CDMA BC0	CDMA /TM1	LCH	24.12	16.97	38.45	PASS
		MCH	24.15	17.00	38.45	PASS
		HCH	24.09	16.94	38.45	PASS

For ANT2:

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP [dBm]	Limit[dBm]	Verdict
CDMA BC0	CDMA /TM1	LCH	23.95	17.46	38.45	PASS
		MCH	24.05	17.56	38.45	PASS
		HCH	24.01	17.52	38.45	PASS

Note:

a: For getting the ERP (Efficient 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

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
BC0	CDMA /TM1	LCH	4.32	13	PASS
		MCH	5.33	13	PASS
		HCH	7.71	13	PASS

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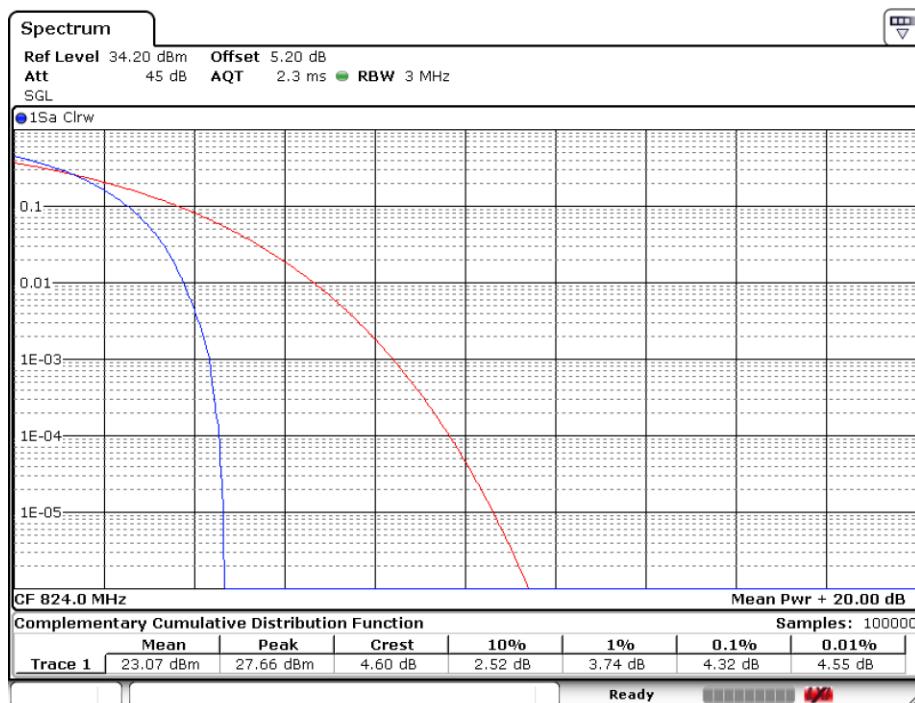
Part II - Test Plots

2.1 For CDMA

2.1.1 Test Band = CDMA BC0

2.1.1.1 Test Mode = CDMA /TM1

2.1.1.1.1 Test Channel = LCH



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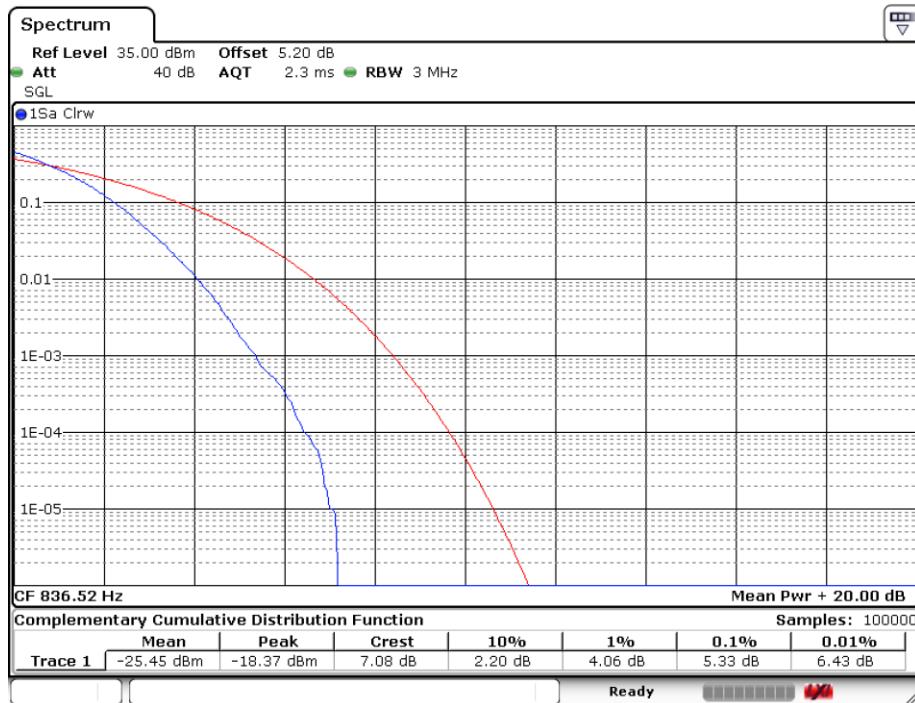
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2.1.1.1.2 Test Channel = MCH



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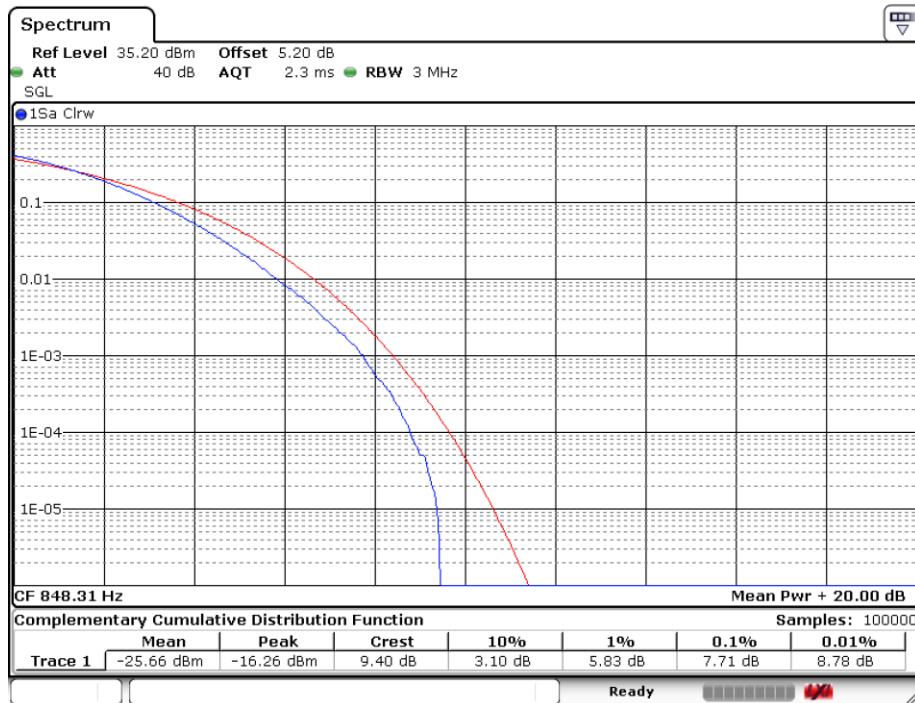
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2.1.1.1.3 Test Channel = HCH



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3 Modulation Characteristics

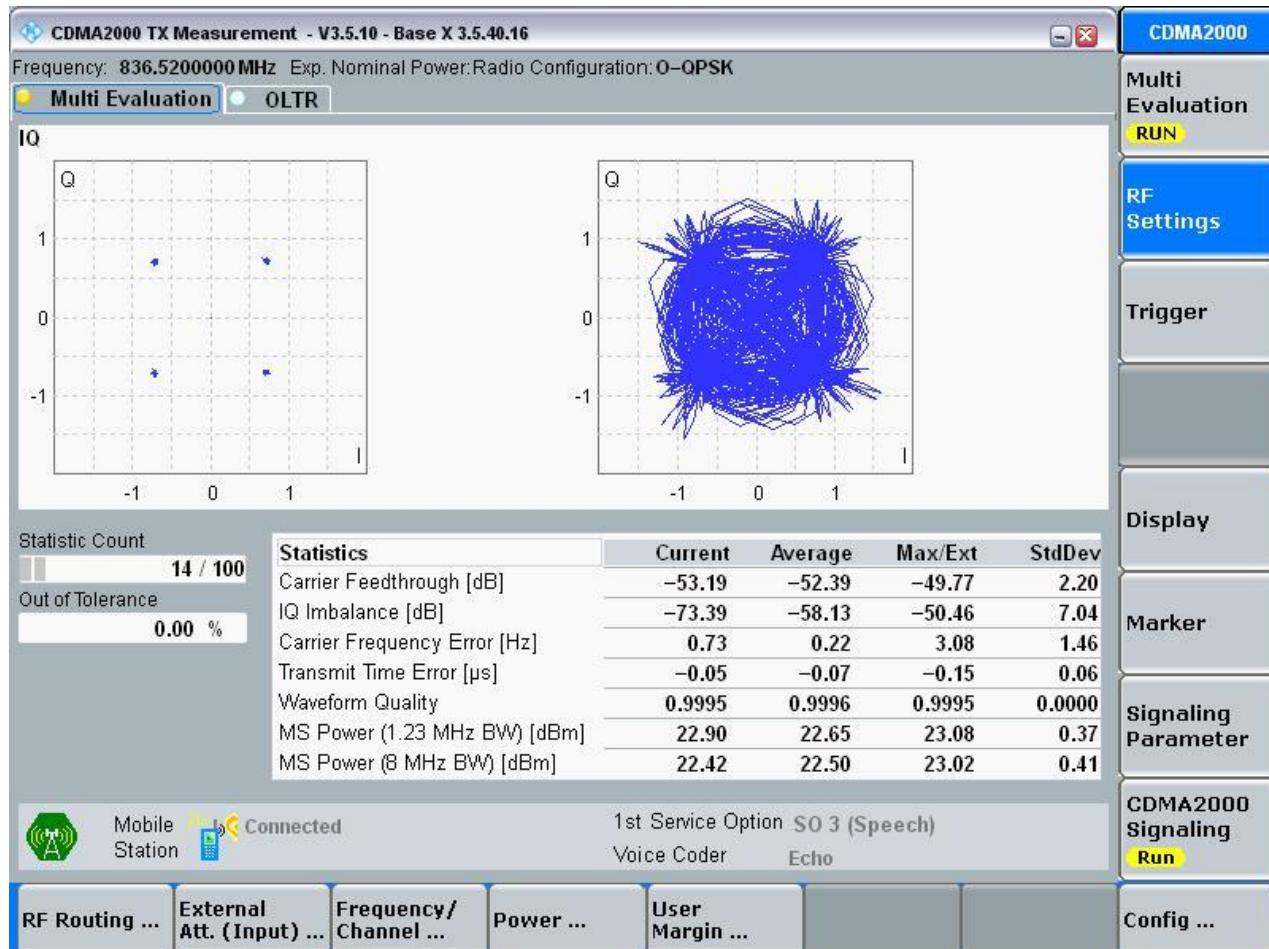
Part I - Test Plots

3.1 For CDMA

3.1.1 Test Band = CDMA BC0

3.1.1.1 Test Mode = CDMA /TM1

3.1.1.1.1 Test Channel = MCH



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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
CDMA BC0	CDMA/TM1	LCH	1.28	1.43	PASS
		MCH	1.28	1.44	PASS
		HCH	1.29	1.42	PASS

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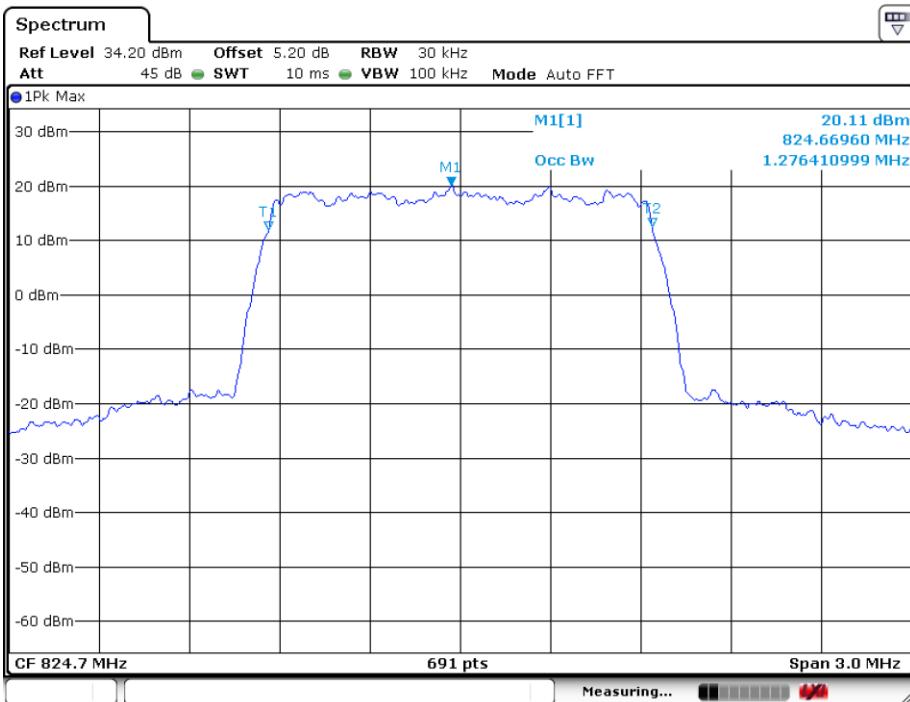
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4.1 For CDMA

4.1.1 Test Band = CDMA BC0

4.1.1.1 Test Mode = CDMA /TM1

4.1.1.1.1 Test Channel = LCH



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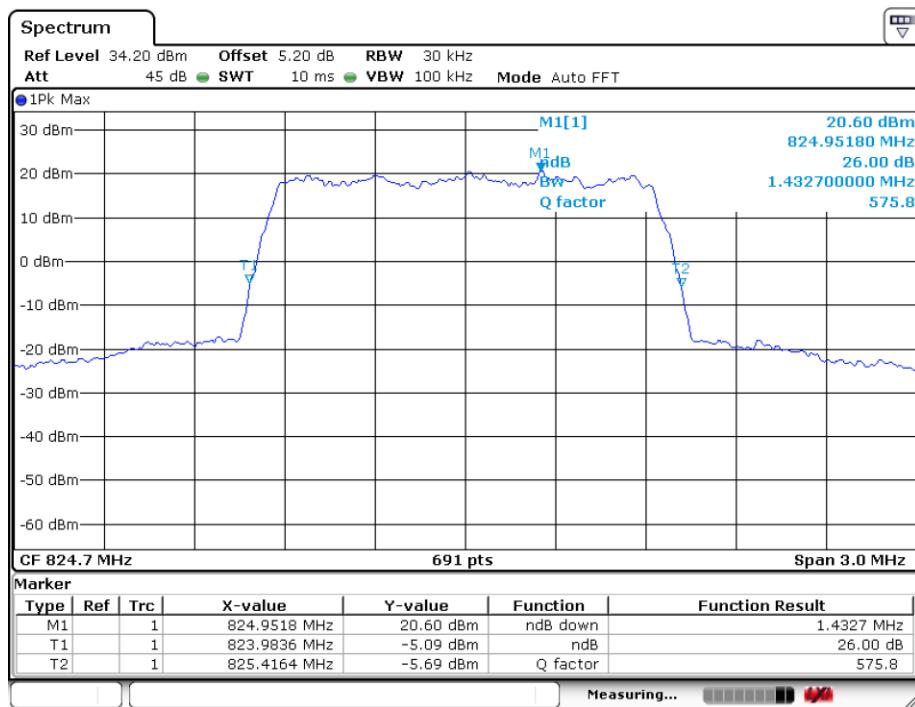
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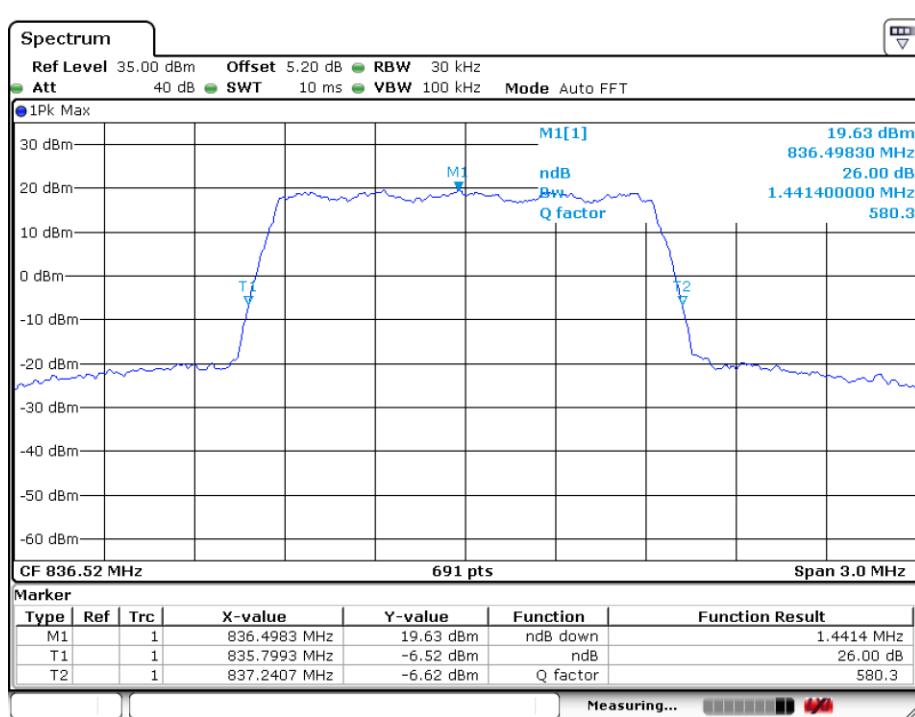
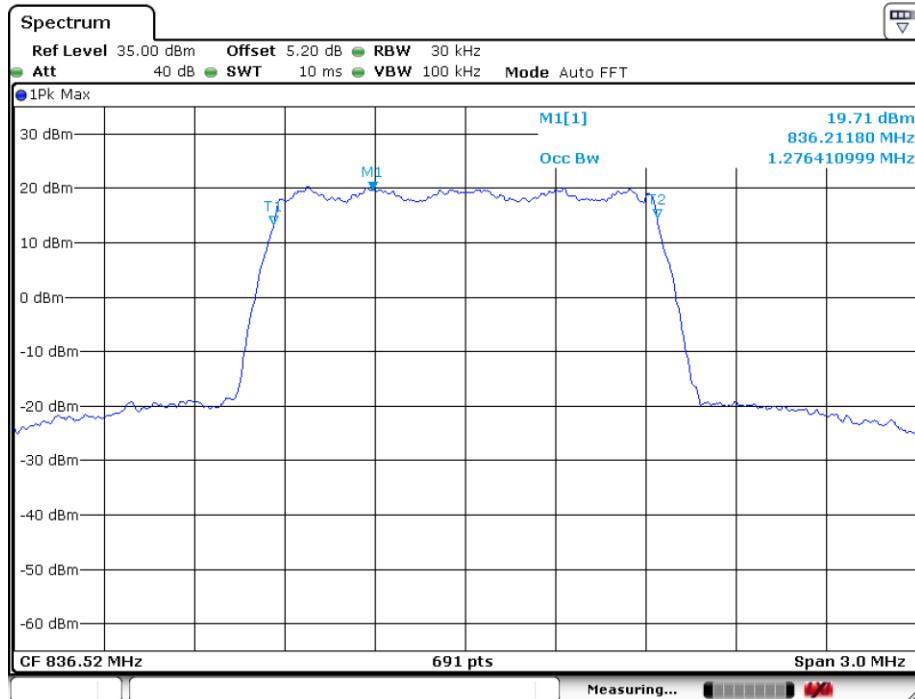
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4.1.1.1.2 Test Channel = MCH

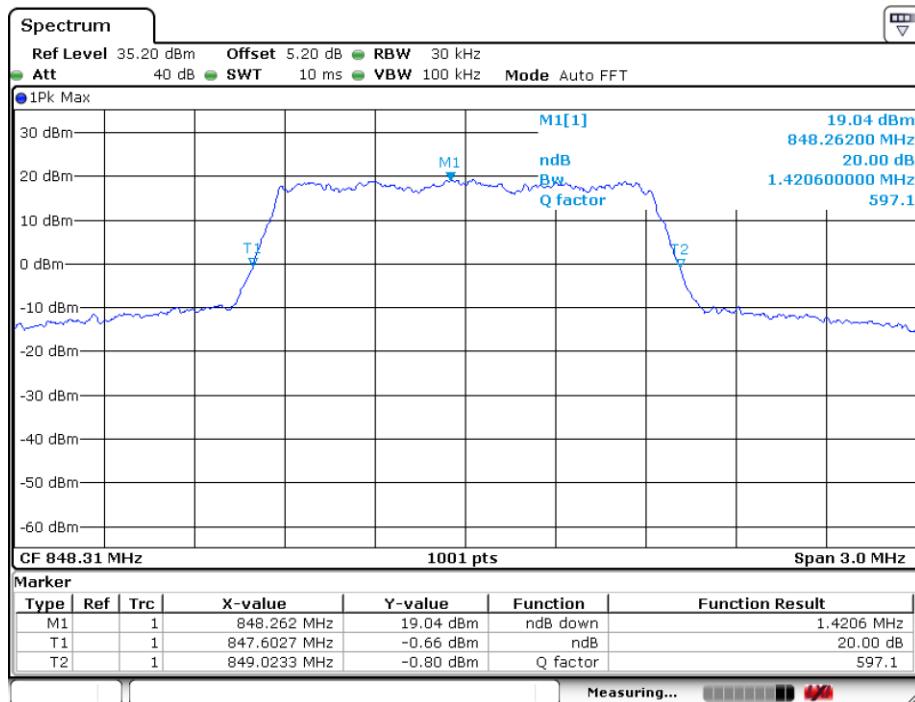


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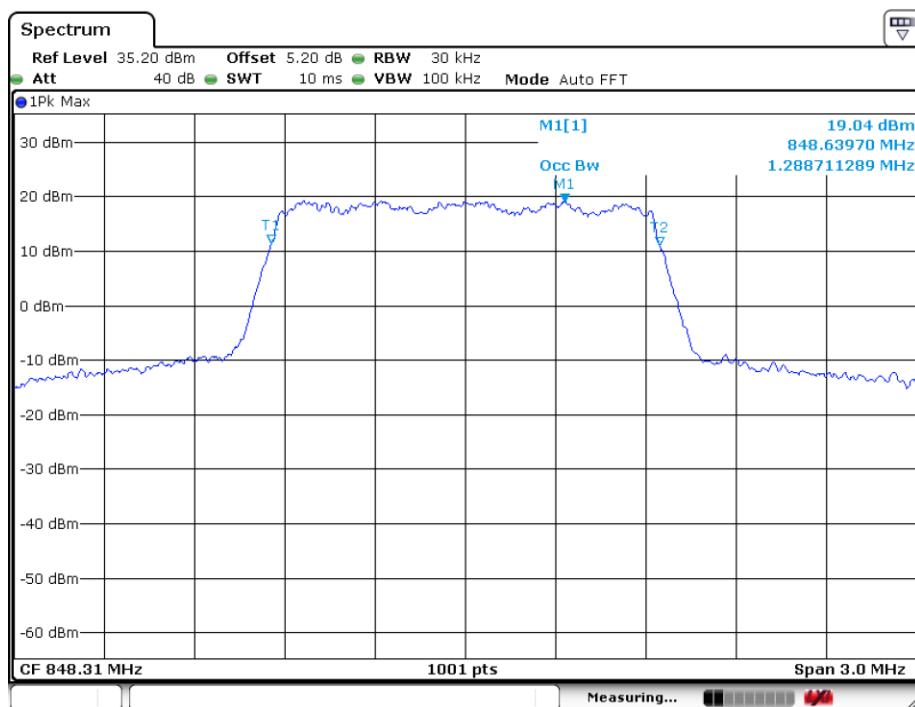
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4.1.1.1.3 Test Channel = HCH



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5 Band Edges Compliance

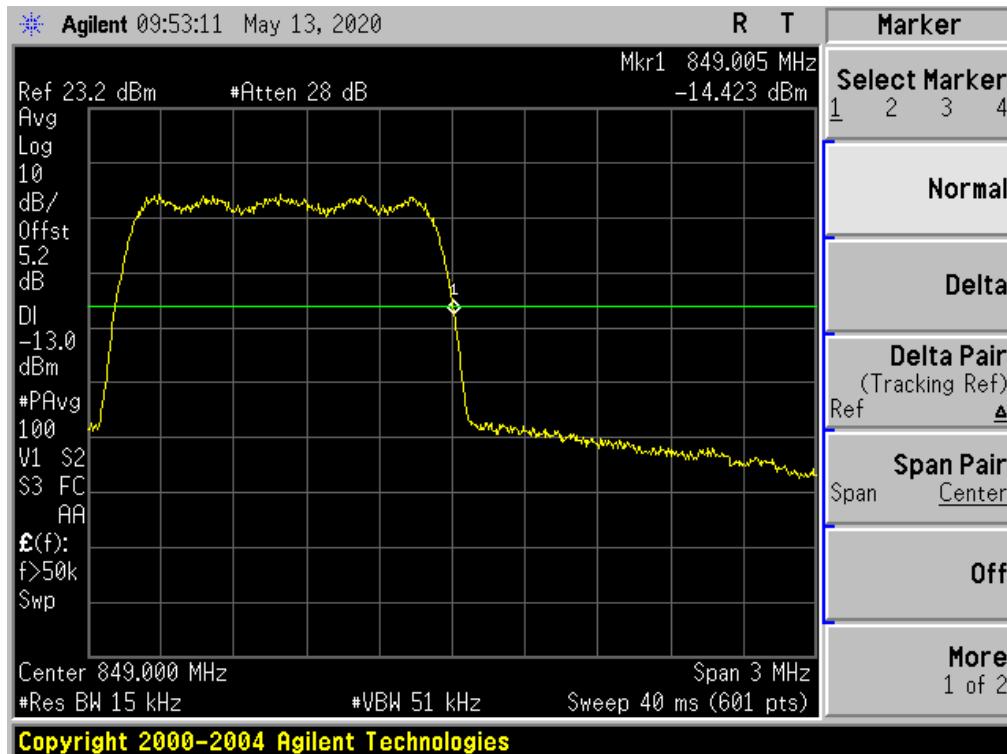
Part I - Test Plots

5.1 For CDMA

5.1.1 Test Band = CDMA BC0

5.1.1.1 Test Mode = CDMA /TM1

5.1.1.1.1 Test Channel = LCH

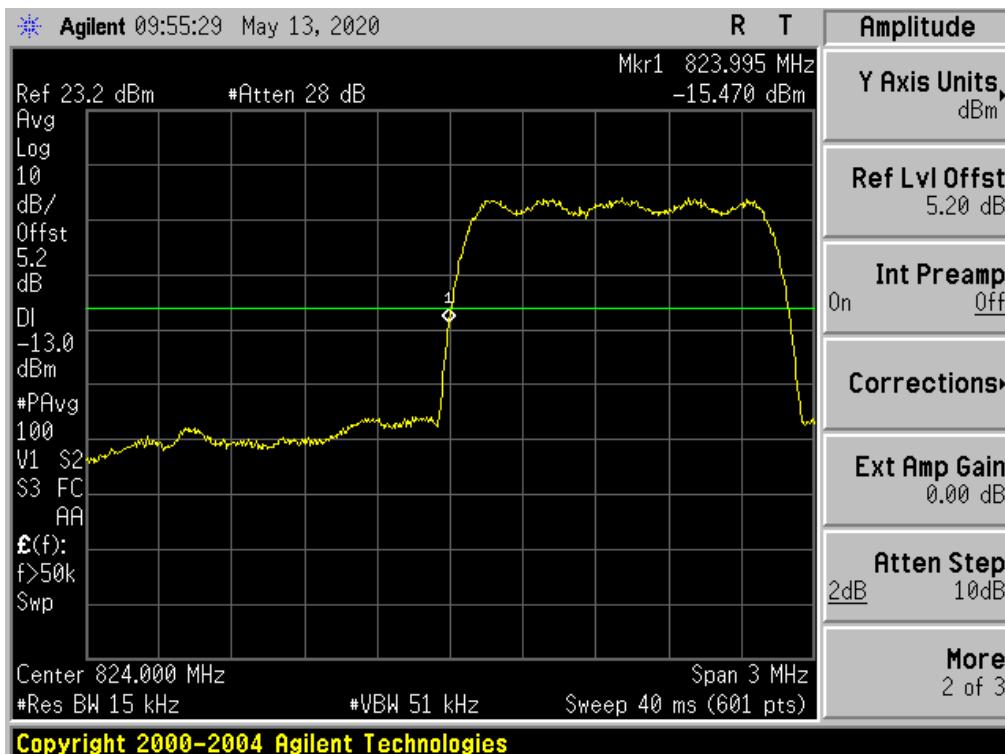


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5.1.1.1.2 Test Channel = HCH

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6 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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

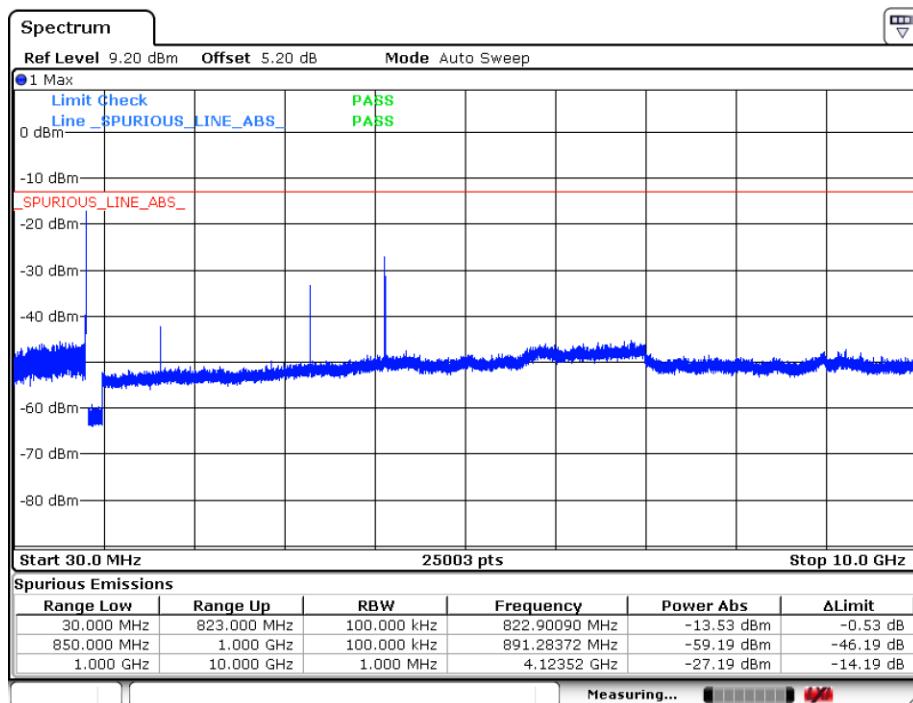
Part I - Test Plots

6.1 For CDMA

6.1.1 Test Band = CDMA BC0

6.1.1.1 Test Mode = CDMA /TM1

6.1.1.1.1 Test Channel = LCH



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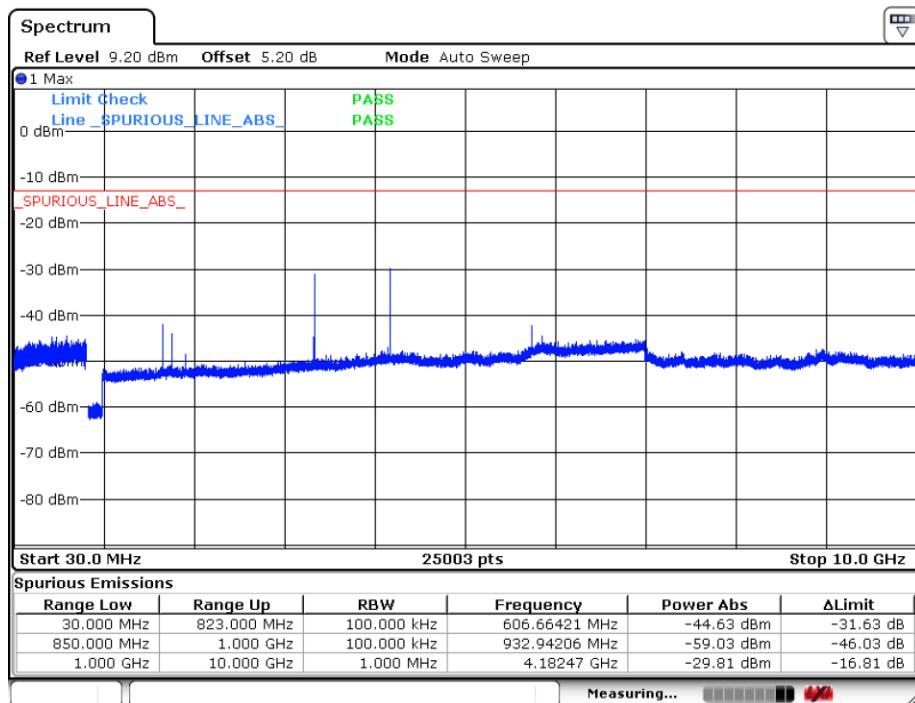
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6.1.1.1.2 Test Channel = MCH



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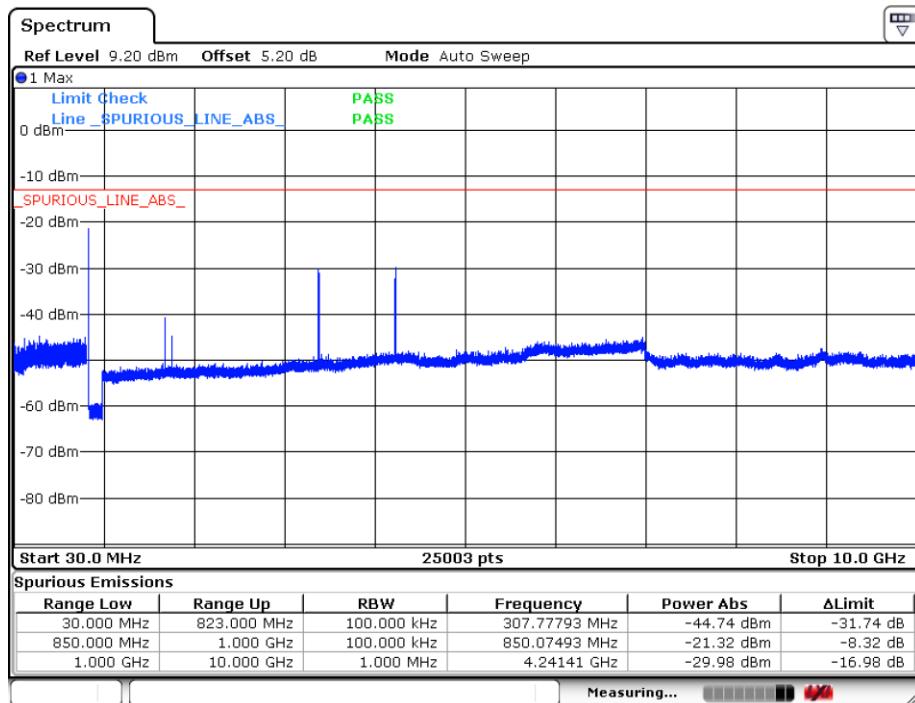
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6.1.1.1.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For CDMA

7.1.1 Test Band = CDMA BC0

7.1.1.1 Test Mode = CDMA /TM1

7.1.1.1.1 Test Channel = LCH(Down Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
80.1030	-66.99	-13.00	53.99	167	319	Vertical
114.3457	-61.47	-13.00	48.47	230	270	Vertical
580.5995	-60.67	-13.00	47.67	198	136	Vertical
2443.8888	-56.83	-13.00	43.83	200	57	Vertical
5002.2667	-61.90	-13.00	48.90	100	250	Vertical
8767.1922	-54.60	-13.00	41.60	223	130	Vertical
43.3382	-62.78	-13.00	49.78	173	166	Horizontal
237.1054	-65.46	-13.00	52.46	207	320	Horizontal
599.3700	-60.77	-13.00	47.77	230	17	Horizontal
1746.5493	-60.55	-13.00	47.55	205	314	Horizontal
2691.5383	-56.17	-13.00	43.17	225	147	Horizontal
8804.1935	-54.63	-13.00	41.63	294	301	Horizontal

7.1.1.1.2 Test Channel = MCH(Down Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
79.4240	-66.74	-13.00	53.74	172	203	Vertical
108.7194	-62.66	-13.00	49.66	194	47	Vertical
387.6084	-65.10	-13.00	52.10	111	305	Vertical
1747.3495	-61.14	-13.00	48.14	206	335	Vertical
3615.4205	-61.79	-13.00	48.79	146	207	Vertical
8787.7929	-54.94	-13.00	41.94	213	233	Vertical
43.5322	-62.21	-13.00	49.21	298	180	Horizontal
236.0868	-65.82	-13.00	52.82	231	215	Horizontal
525.2583	-61.77	-13.00	48.77	243	325	Horizontal
1811.3623	-62.93	-13.00	49.93	187	227	Horizontal
2687.9376	-56.12	-13.00	43.12	126	173	Horizontal
8803.7935	-55.14	-13.00	42.14	188	305	Horizontal

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7.1.1.1.3 Test Channel = HCH(Down Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
48.4794	-69.86	-13.00	56.86	153	60	Vertical
109.3015	-62.64	-13.00	49.64	166	177	Vertical
577.9319	-62.11	-13.00	49.11	274	52	Vertical
2449.4899	-56.98	-13.00	43.98	251	174	Vertical
3000.0000	-56.25	-13.00	43.25	189	109	Vertical
7416.3472	-56.22	-13.00	43.22	219	217	Vertical
44.6962	-62.68	-13.00	49.68	233	169	Horizontal
233.8072	-65.52	-13.00	52.52	143	193	Horizontal
575.5068	-62.12	-13.00	49.12	175	54	Horizontal
2303.8608	-59.03	-13.00	46.03	280	156	Horizontal
3592.4197	-61.09	-13.00	48.09	112	28	Horizontal
8789.3930	-54.72	-13.00	41.72	121	96	Horizontal

7.1.1.1.4 Test Channel = LCH(Up Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.1728	-70.15	-13.00	57.15	186	41	Vertical
109.4470	-62.34	-13.00	49.34	183	242	Vertical
461.4291	-64.42	-13.00	51.42	193	257	Vertical
2295.8592	-58.54	-13.00	45.54	283	127	Vertical
3715.4238	-61.79	-13.00	48.79	300	169	Vertical
8751.1917	-54.77	-13.00	41.77	151	325	Vertical
42.8531	-62.43	-13.00	49.43	243	267	Horizontal
234.8257	-65.41	-13.00	52.41	102	34	Horizontal
778.4409	-58.69	-13.00	45.69	224	30	Horizontal
2695.1390	-56.24	-13.00	43.24	293	205	Horizontal
6540.7180	-59.98	-13.00	46.98	143	264	Horizontal
8825.9942	-55.07	-13.00	42.07	299	186	Horizontal

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7.1.1.1.5 Test Channel = MCH(Up Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.4667	-69.15	-13.00	56.15	136	212	Vertical
116.8193	-62.73	-13.00	49.73	135	13	Vertical
620.2260	-60.88	-13.00	47.88	228	216	Vertical
2442.2885	-56.12	-13.00	43.12	134	146	Vertical
2993.1986	-56.36	-13.00	43.36	298	263	Vertical
8760.7920	-54.85	-13.00	41.85	204	21	Vertical
43.1927	-62.53	-13.00	49.53	264	295	Horizontal
244.4777	-65.80	-13.00	52.80	130	216	Horizontal
585.4498	-61.53	-13.00	48.53	169	350	Horizontal
1181.2362	-65.74	-13.00	52.74	251	18	Horizontal
2697.1394	-56.14	-13.00	43.14	269	281	Horizontal
8832.3944	-55.22	-13.00	42.22	111	68	Horizontal

7.1.1.1.6 Test Channel = HCH(Up Antenna)

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
58.5194	-70.07	-13.00	57.07	120	95	Vertical
109.0105	-62.59	-13.00	49.59	188	343	Vertical
618.1889	-60.65	-13.00	47.65	108	54	Vertical
2299.8600	-58.52	-13.00	45.52	176	313	Vertical
3000.0000	-56.07	-13.00	43.07	230	47	Vertical
8777.7926	-55.33	-13.00	42.33	213	148	Vertical
45.3753	-62.78	-13.00	49.78	168	118	Horizontal
231.4306	-65.52	-13.00	52.52	169	338	Horizontal
595.5383	-60.32	-13.00	47.32	161	142	Horizontal
2475.0950	-56.50	-13.00	43.50	175	208	Horizontal
3599.0200	-60.89	-13.00	47.89	242	15	Horizontal
8764.1921	-54.90	-13.00	41.90	202	96	Horizontal

NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	TN	VL	2.28	0.00276	PASS
				VN	-0.38	-0.00046	PASS
				VH	0.02	0.00002	PASS
		MCH	TN	VL	1.83	0.00219	PASS
				VN	0.75	0.00090	PASS
				VH	-1.37	-0.00164	PASS
		HCH	TN	VL	1.64	0.00193	PASS
				VN	-2.64	-0.00311	PASS
				VH	-4.34	-0.00512	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CDMA BC0	CDMA/TM1	LCH	VN	-30	-4.75	-0.00576	PASS
				-20	2.60	0.00315	PASS
				-10	0.67	0.00081	PASS
				0	-2.68	-0.00325	PASS
				10	3.56	0.00432	PASS
				20	-4.80	-0.00582	PASS
				30	1.60	0.00194	PASS
				40	-2.04	-0.00247	PASS
				50	-6.01	-0.00729	PASS
		MCH	VN	-30	-3.20	-0.00383	PASS
				-20	-5.08	-0.00607	PASS
				-10	-1.39	-0.00166	PASS
				0	-3.38	-0.00404	PASS
				10	1.31	0.00157	PASS
				20	2.72	0.00325	PASS
				30	1.61	0.00192	PASS
				40	3.13	0.00374	PASS
				50	-4.35	-0.00520	PASS
		HCH	VN	-30	-2.17	-0.00256	PASS
				-20	3.68	0.00434	PASS
				-10	2.55	0.00301	PASS
				0	-5.52	-0.00651	PASS
				10	1.37	0.00161	PASS
				20	-2.78	-0.00328	PASS
				30	3.64	0.00429	PASS
				40	-4.63	-0.00546	PASS
				50	-2.60	-0.00306	PASS

The End

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