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Email: ee.shenzhen@sgs.com Page: 1 of 85

Appendix for Test Report

Authorized Signature:



Jack Zhang

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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1 APPENDIX_A: EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	31.55	28.80	38.5	PASS
		MCH	31.53	28.78	38.5	PASS
		HCH	31.31	28.56	38.5	PASS
	GSM/TM2	LCH	24.73	21.98	38.5	PASS
		MCH	24.53	21.78	38.5	PASS
		HCH	24.34	21.59	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.37	20.62	38.5	PASS
		MCH	23.46	20.71	38.5	PASS
		HCH	23.27	20.52	38.5	PASS

Note1: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it.

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b, SGP=Signal Generator Level

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

Detector: RMS



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Test Band	Test Mode	Test Chann el	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdic t
GSM1900	GSM/TM1	LCH	29.11	30.41	33	PASS
		MCH	29.13	30.43	33	PASS
		HCH	29.13	30.43	33	PASS
	GSM/TM2	LCH	29.16	30.46	33	PASS
		MCH	29.09	30.39	33	PASS
		HCH	29.16	30.46	33	PASS
	UMTS/TM 1	LCH	24.59	25.89	33	PASS
WCDMA1900		MCH	23.89	25.19	33	PASS
		HCH	23.96	25.26	33	PASS

Note1: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi] b, SGP=Signal Generator Level

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

Detector: RMS



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2 APPENDIX_B: PEAK-TO-AVERAGE RATIO

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	0.06	13	PASS
	GSM/TM1	MCH	0.12	13	PASS
GSM1900		HCH	0.14	13	PASS
GOWTOO		LCH	2.87	13	PASS
	GSM/TM2	MCH	3.02	13	PASS
		HCH	3.20	13	PASS
	GSM/TM1	LCH	0.15	13	PASS
		MCH	0.11	13	PASS
GSM1900		HCH	0.16	13	PASS
G5W1900	GSM/TM2	LCH	2.89	13	PASS
		MCH	3.12	13	PASS
		HCH	3.17	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	UMTS/TM1	LCH	2.89	13	PASS
WCDMA1900		MCH	2.78	13	PASS
		HCH	3.01	13	PASS
		LCH	3.04	13	PASS
WCDMA1900	UMTS/TM1	MCH	3.11	13	PASS
		HCH	2.96	13	PASS



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3 APPENDIX_C: MODULATION CHARACTERISTICS

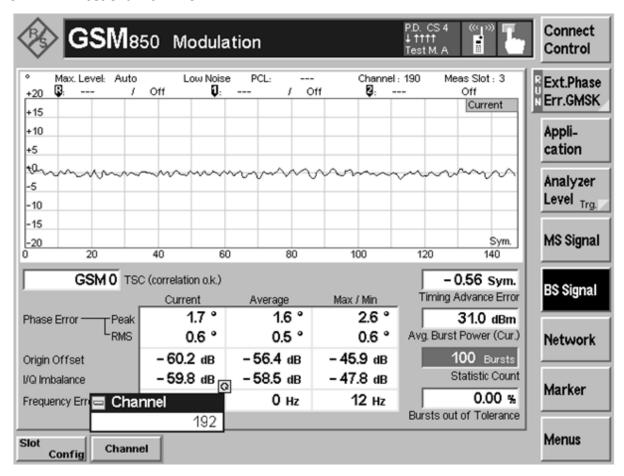
Part I - Test Plots

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



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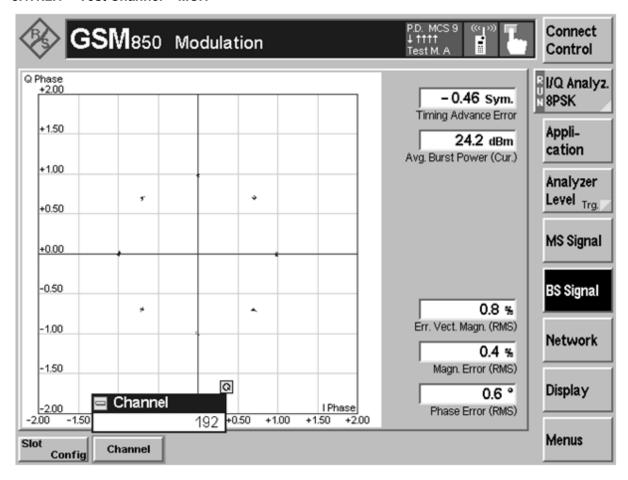


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3.1.1.2 Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH



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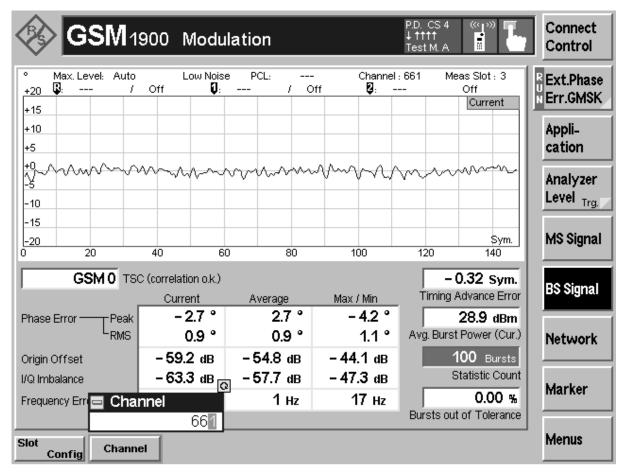
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3.1.2 TEST BAND = GSM1900

3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



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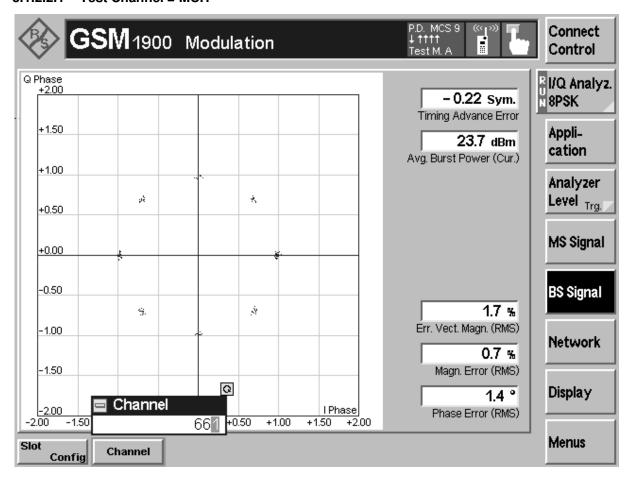


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3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH





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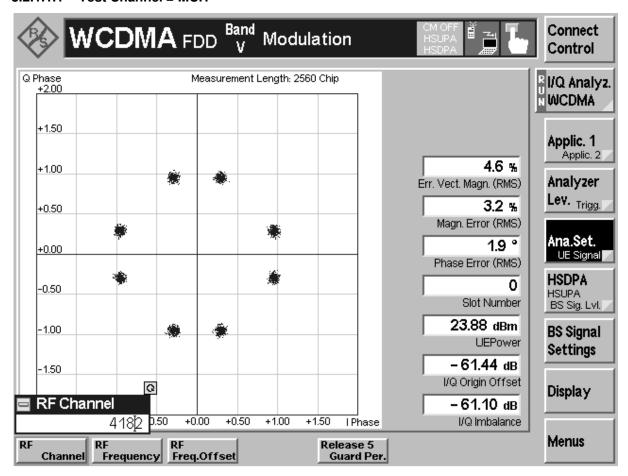
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3.2 FOR UMTS

3.2.1 TEST BAND = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

3.2.1.1.1 Test Channel = MCH







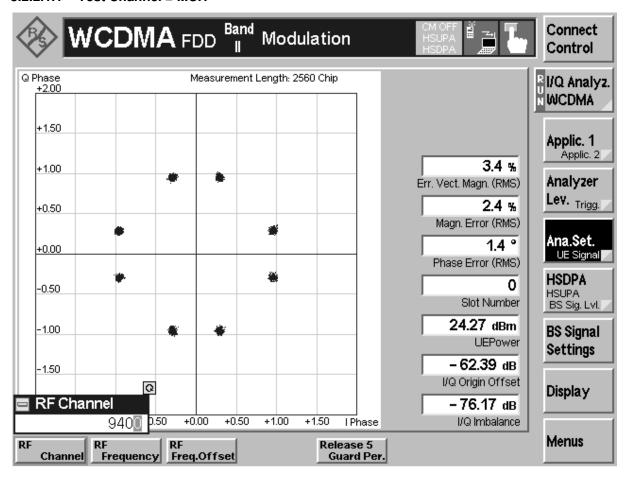
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3.2.2 TEST BAND = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



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4 APPENDIX_D: BANDWIDTH

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
		LCH	243.9	317.0	PASS
	GSM/TM1	MCH	241.1	318.9	PASS
		HCH	241.4	319.2	PASS
CCMOEO		LCH	234.8	302.6	PASS
GSM850	GSM/TM2	MCH	244.1	321.6	PASS
		HCH	235.8	299.6	PASS
		LCH	242.0	314.1	PASS
	GSM/TM1	MCH	241.9	318.0	PASS
GSM1900		HCH	243.1	315.7	PASS
GSW1900	GSM/TM2	LCH	240.46	317.3	PASS
		MCH	239.58	306.9	PASS
		HCH	241.2	316.0	PASS
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	4.149	4.726	PASS
MODIANOSO	UMTS/TM 1	MCH	4.169	4.735	PASS
WCDMA850		HCH	4.162	4.728	PASS
	UMTS/TM	LCH	4.165	4.746	PASS
WCDMA1900		MCH	4.163	4.746	PASS
		HCH	4.164	4.373	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



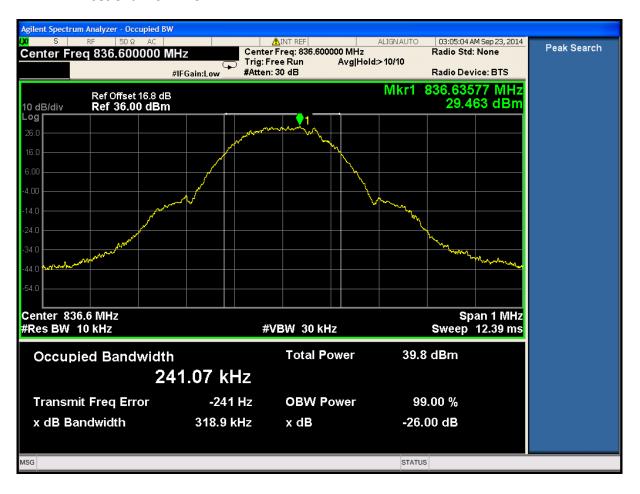
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4.1.1.1.2 Test Channel = MCH



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4.1.1.1.3 Test Channel = HCH



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4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH



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4.1.1.2.2 Test Channel = MCH



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4.1.1.2.3 Test Channel = HCH



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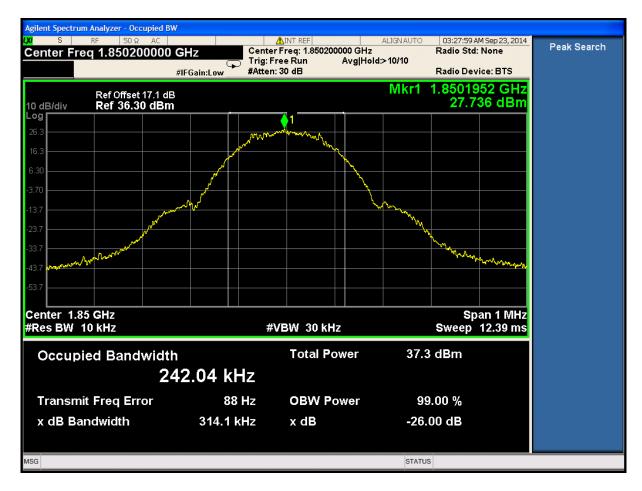
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4.1.2 TEST BAND = GSM1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



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4.1.2.1.2 Test Channel = MCH







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4.1.2.1.3 Test Channel = HCH



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4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



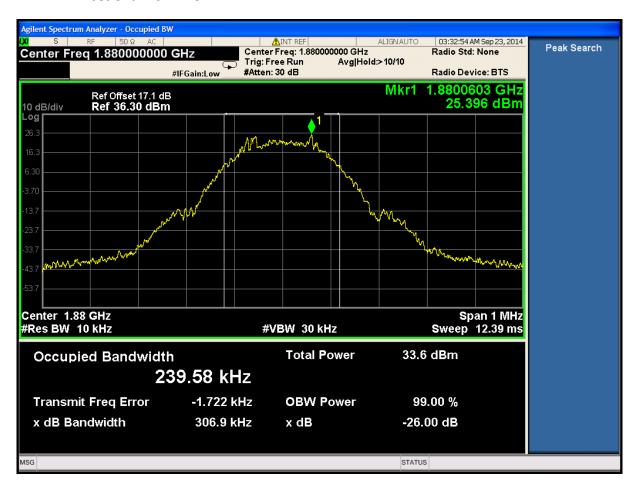
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4.1.2.2.2 Test Channel = MCH



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4.1.2.2.3 Test Channel = HCH



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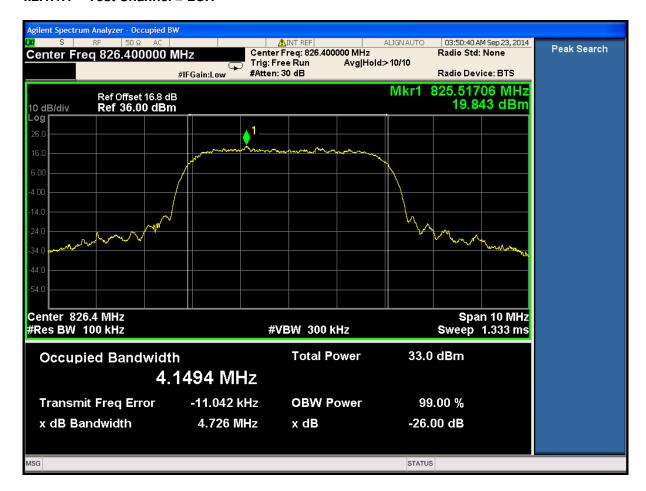
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4.2 FOR UMTS

4.2.1 TEST BAND = WCDMA850

4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



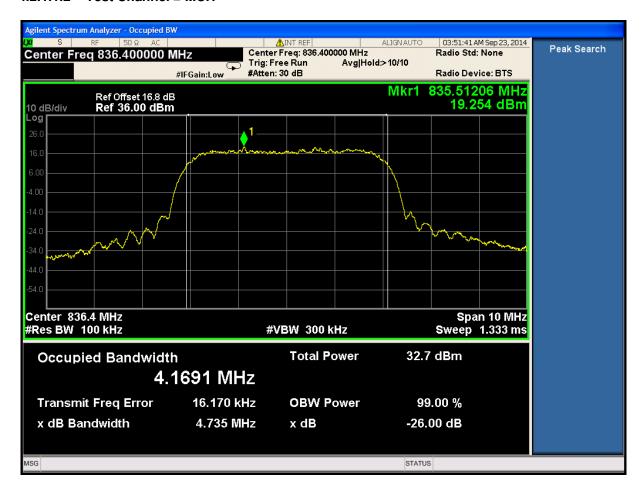
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4.2.1.1.2 Test Channel = MCH



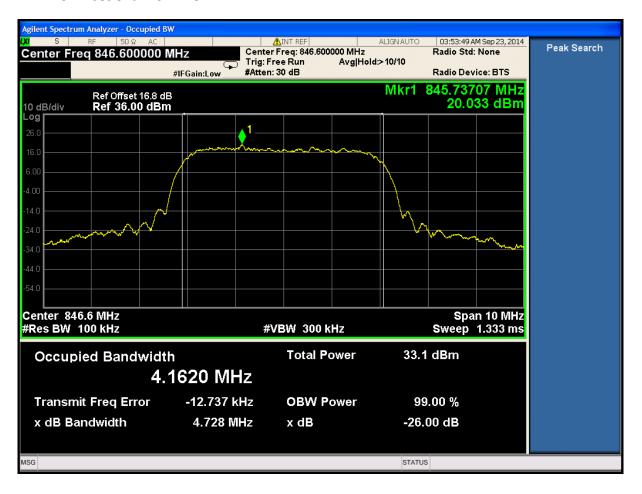
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4.2.1.1.3 Test Channel = HCH



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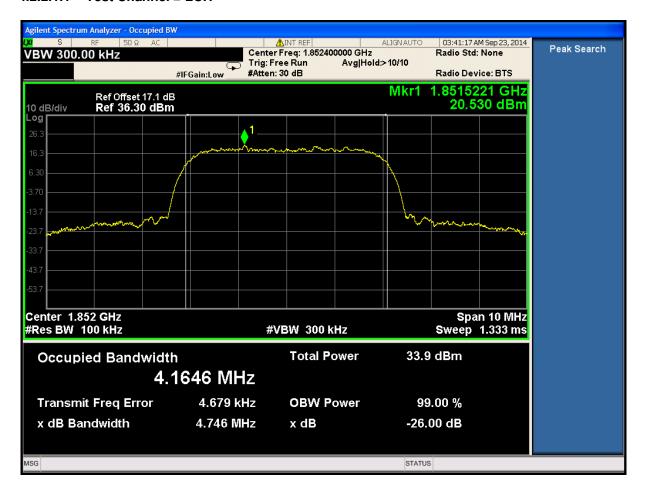
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4.2.2 TEST BAND = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



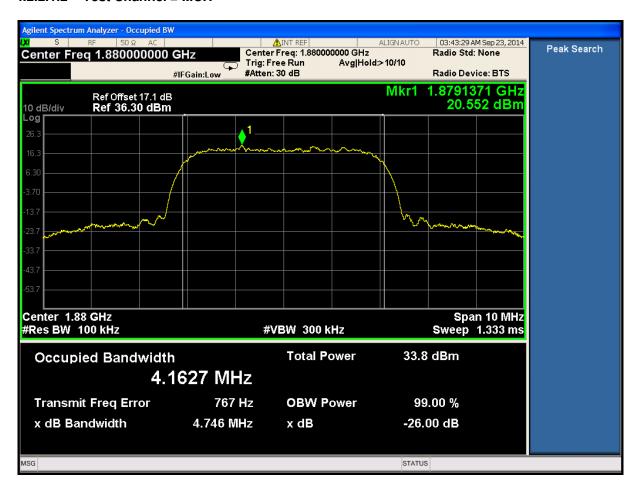
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4.2.2.1.2 Test Channel = MCH



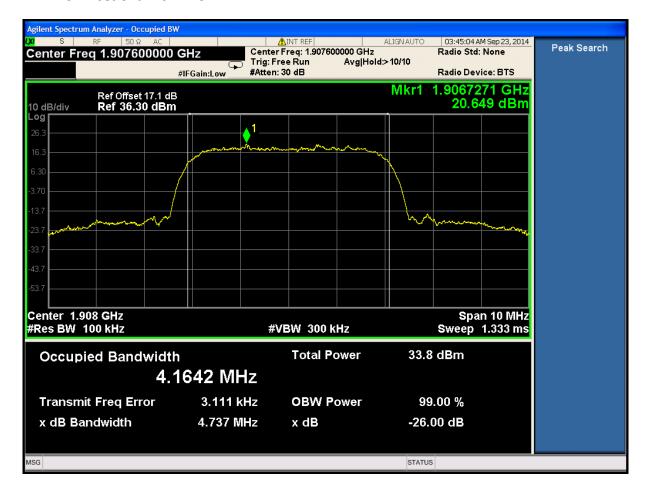
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4.2.2.1.3 Test Channel = HCH







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5 APPENDIX_E: BAND EDGES COMPLIANCE

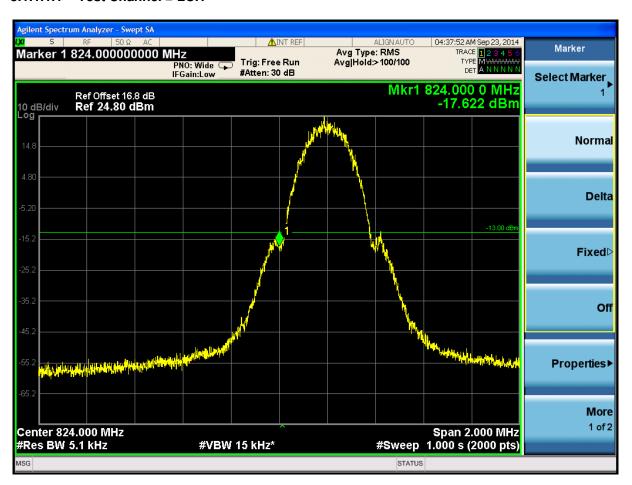
Part I - Test Plots

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



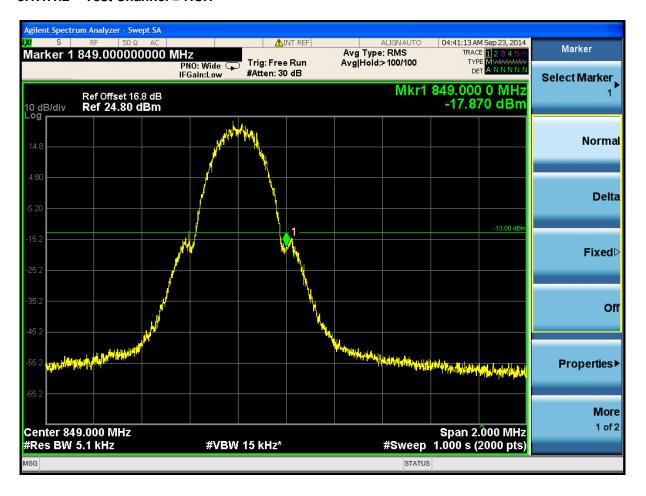
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5.1.1.1.2 Test Channel = HCH



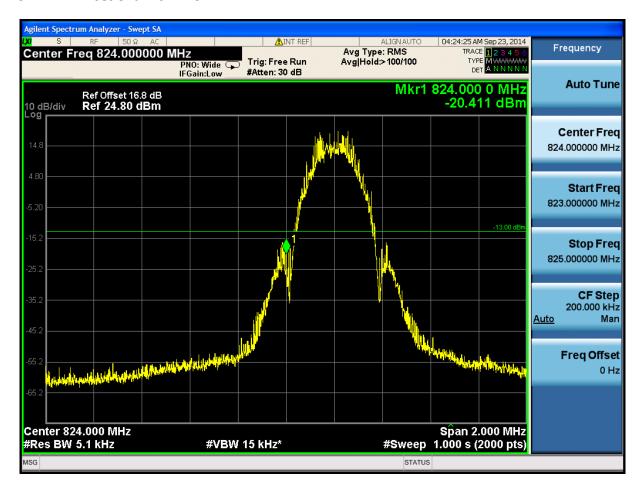


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5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



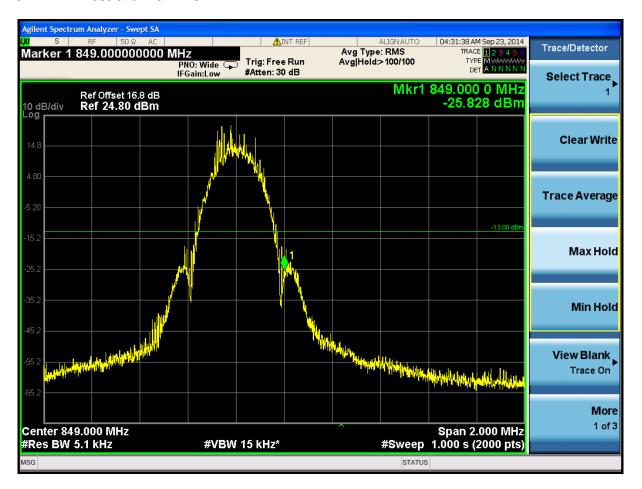
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5.1.1.2.2 Test Channel = HCH





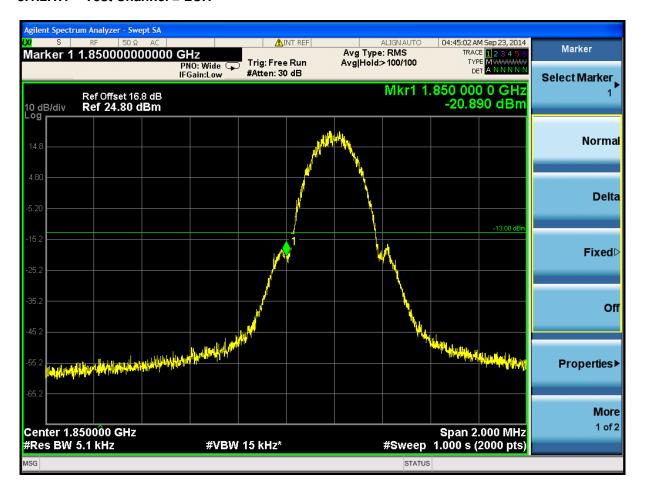
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5.1.2 TEST BAND = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH



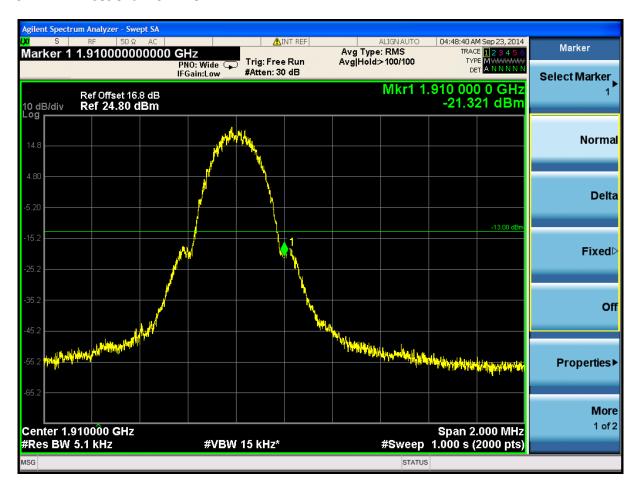
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5.1.2.1.2 Test Channel = HCH



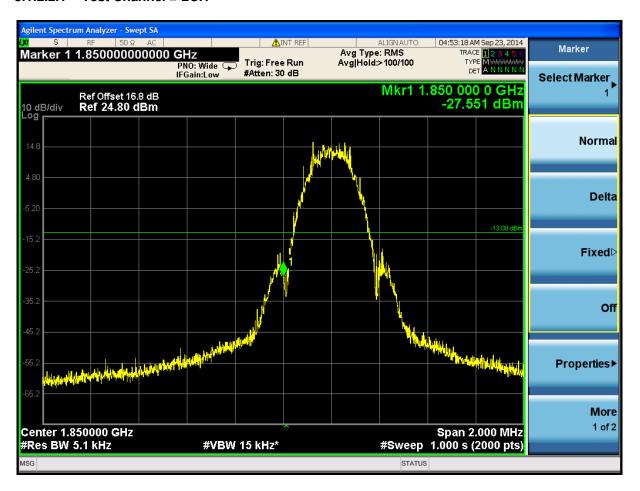


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5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH



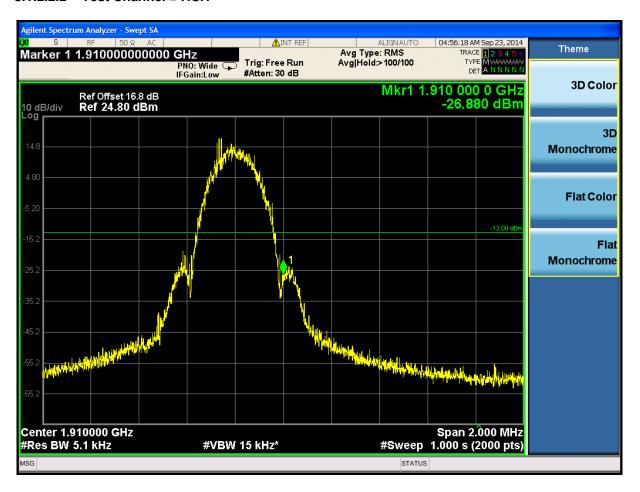
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5.1.2.2.2 Test Channel = HCH





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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



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5.2.1.1.2 Test Channel = HCH







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5.2.2 TEST BAND = WCDMA1900

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH



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5.2.2.1.2 Test Channel = HCH





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6 APPENDIX_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



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6.1.1 TEST BAND = GSM850

6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



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6.1.1.1.2 Test Channel = MCH





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6.1.1.1.3 Test Channel = HCH





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6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH



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6.1.1.2.2 Test Channel = MCH





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6.1.1.2.3 Test Channel = HCH



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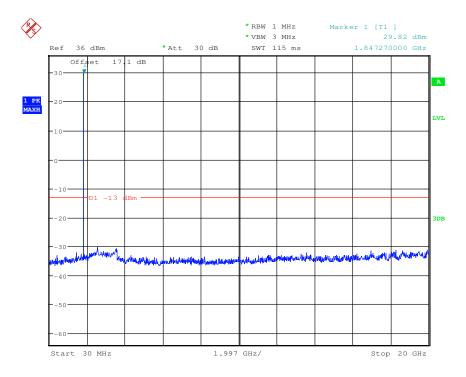
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6.1.2 TEST BAND = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH



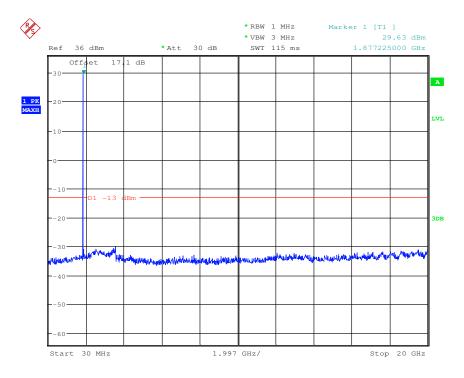




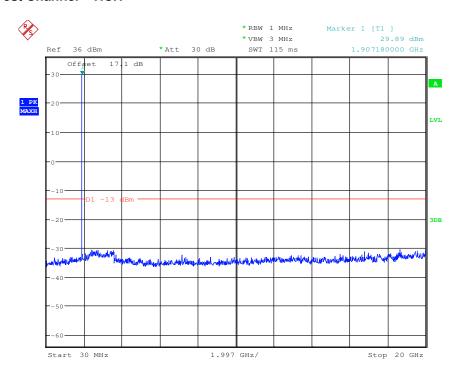
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6.1.2.1.2 Test Channel = MCH



6.1.2.1.3 Test Channel = HCH



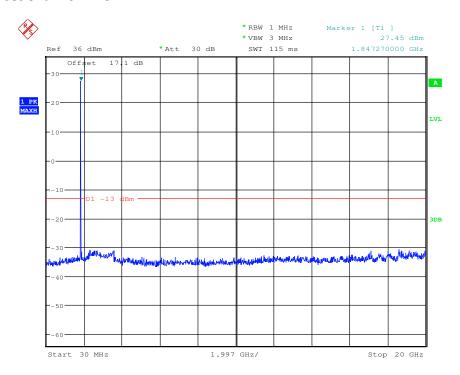


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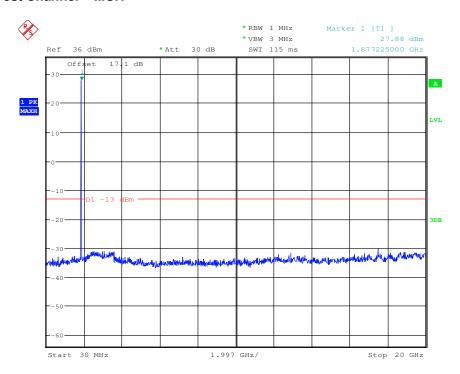
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6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH



6.1.2.2.2 Test Channel = MCH

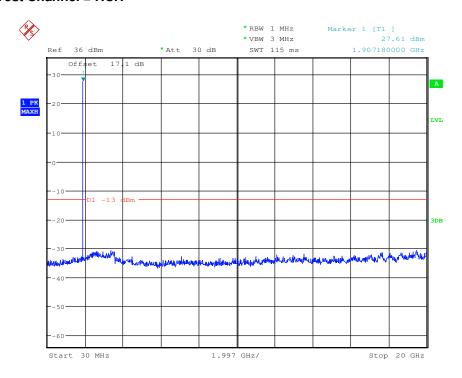




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6.1.2.2.3 Test Channel = HCH



6.2 FOR UMTS



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6.2.1 TEST BAND = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



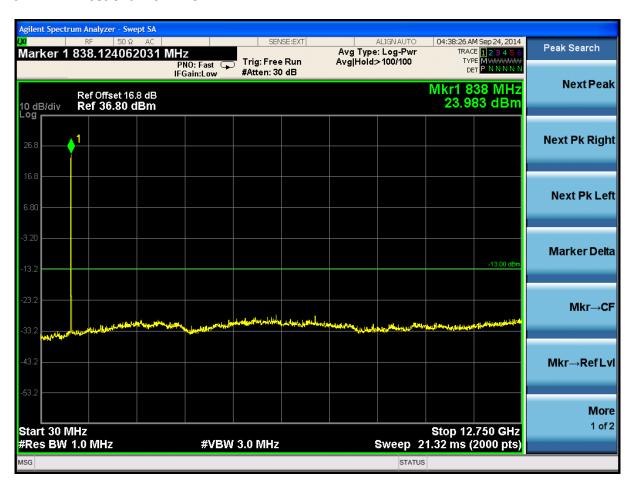
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6.2.1.1.2 Test Channel = MCH



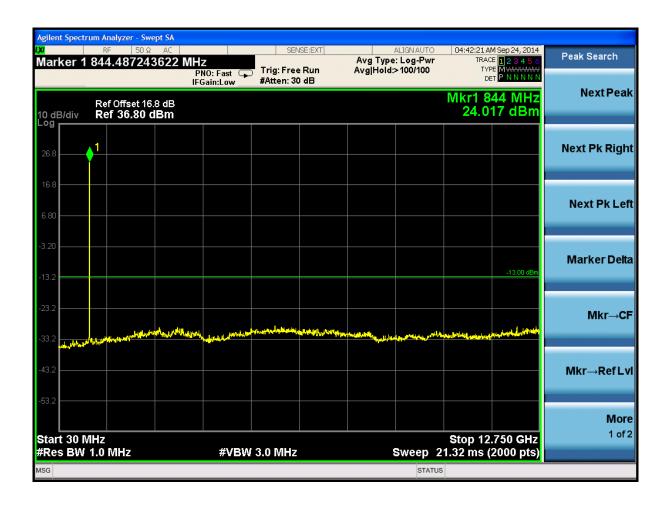
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6.2.1.1.3 Test Channel = HCH





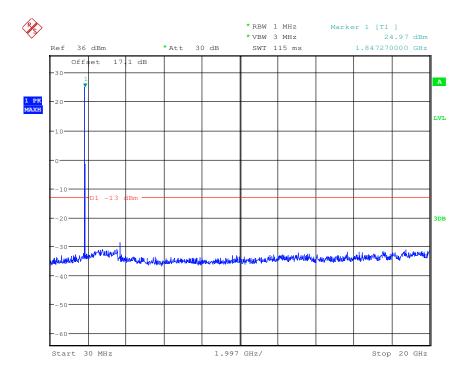
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6.2.2 TEST BAND = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



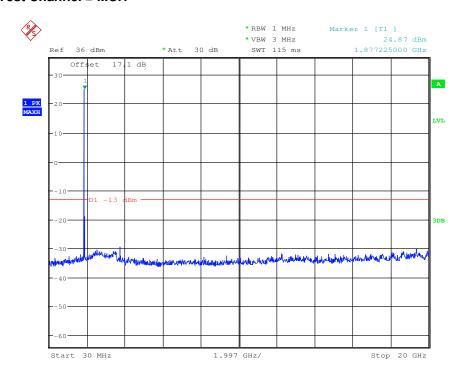
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6.2.2.1.2 Test Channel = MCH



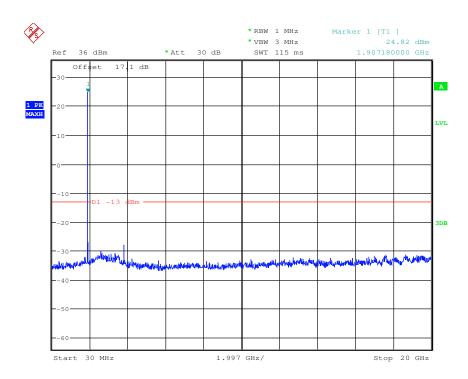
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6.2.2.1.3 Test Channel = HCH



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7 APPENDIX G: FIELD STRENGTH OF SPURIOUS RADIATION

Part I - Test Plots 7.1 FOR GSM

7.1.1 TEST BAND = GSM850

7.1.1.1 Test Mode = GSM/TM1

Below 1GHz Low channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
31.620	-63.40	-13	-50.41	Vertical
37.812	-71.79	-13	-58.80	Vertical
80.644	-70.71	-13	-57.72	Vertical
184.490	-70.15	-13	-57.16	Vertical
457.507	-68.50	-13	-55.51	Vertical
709.182	-68.31	-13	-55.32	Vertical
35.749	-81.88	-13	-68.89	Horizontal
51.301	-79.26	-13	-66.27	Horizontal
87.112	-73.26	-13	-60.27	Horizontal
143.326	-68.84	-13	-55.85	Horizontal
226.894	-75.61	-13	-62.62	Horizontal
689.565	-68.01	-13	-55.02	Horizontal

Above 1GHz Low channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1673.200	-21.75	-13	-8.75	Vertical	
2509.800	-41.08	-13	-28.08	Vertical	
3346.400	-47.68	-13	-34.68	Vertical	
4183.000	-48.64	-13	-35.64	Vertical	
5019.600	-46.26	-13	-33.26	Vertical	
5856.200	-44.93	-13	-31.93	Vertical	
1673.200	-27.75	-13	-14.75	Horizontal	
2509.800	-46.97	-13	-33.97	Horizontal	
3346.400	-47.47	-13	-34.47	Horizontal	
4183.000	-46.21	-13	-33.21	Horizontal	
5019.600	-44.97	-13	-31.97	Horizontal	
5856.200	-43.87	-13	-30.87	Horizontal	



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Below 1GHz middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
43.05	-78.85	-13	-65.87	Vertical	
86.503	-73.54	-13	-60.56	Vertical	
159.225	-70.53	-13	-57.55	Vertical	
255.623	-74.74	-13	-61.76	Vertical	
381.249	-71.91	-13	-58.93	Vertical	
776.878	-66.94	-13	-53.96	Vertical	
30.853	-52.86	-13	-39.86	Horizontal	
39.854	-66.25	-13	-53.25	Horizontal	
67.438	-71.14	-13	-58.14	Horizontal	
167.824	-64.57	-13	-51.57	Horizontal	
425.028	-67.17	-13	-54.17	Horizontal	
842.13	-66.49	-13	-53.49	Horizontal	

Above 1GHz mid	Above 1GHz middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
1648.4	-31.45	-13	-18.45	Vertical		
2472.6	-50.14	-13	-37.14	Vertical		
3296.8	-50.4	-13	-37.4	Vertical		
4121	-50.68	-13	-37.68	Vertical		
4945.2	-49.12	-13	-36.12	Vertical		
5769.4	-47.12	-13	-34.12	Vertical		
1648.4	-35.43	-13	-22.43	Horizontal		
2472.6	-45.85	-13	-32.85	Horizontal		
3296.8	-49.39	-13	-36.39	Horizontal		
4121	-49.75	-13	-36.75	Horizontal		
4945.2	-48.41	-13	-35.41	Horizontal		
5769.4	-47.65	-13	-34.65	Horizontal		

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Below 1GHz High channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
43.659	-76.84	-13	-63.86	Vertical
71.581	-68.62	-13	-55.64	Vertical
99.528	-73.31	-13	-60.33	Vertical
152.664	-69.36	-13	-56.38	Vertical
396.242	-73.01	-13	-60.03	Vertical
785.093	-67.75	-13	-54.77	Vertical
36.254	-77.52	-13	-64.54	Horizontal
73.359	-72.31	-13	-59.33	Horizontal
145.861	-62.13	-13	-49.15	Horizontal
248.552	-72.69	-13	-59.71	Horizontal
359.186	-68.31	-13	-55.33	Horizontal
839.182	-66.25	-13	-53.27	Horizontal

Above 1GHz High channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1267.104	-69.09	-13	-56.09	Vertical
2055.225	-64.04	-13	-51.04	Vertical
2818.011	-60.32	-13	-47.32	Vertical
3672.11	-60.05	-13	-47.05	Vertical
5617.407	-55.41	-13	-42.41	Vertical
8334.7	-52.58	-13	-39.58	Vertical
1364.182	-68.61	-13	-55.61	Horizontal
2162.567	-64.17	-13	-51.17	Horizontal
3283.018	-47.75	-13	-34.75	Horizontal
5560.5	-57.31	-13	-44.31	Horizontal
7508.688	-53.69	-13	-40.69	Horizontal
9960.375	-51.03	-13	-38.03	Horizontal

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7.1.1.2 Test Mode = **GSM/TM2**

Below 1GHz Low	Below 1GHz Low channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
31.399	-59.18	-13	-46.19	Vertical		
35.875	-77.17	-13	-64.18	Vertical		
50.942	-67.28	-13	-54.29	Vertical		
100.229	-68.61	-13	-55.62	Vertical		
296.184	-71.42	-13	-58.43	Vertical		
836.244	-66.15	-13	-53.16	Vertical		
32.979	-76.36	-13	-63.37	Horizontal		
46.340	-76.12	-13	-63.13	Horizontal		
75.977	-69.64	-13	-56.65	Horizontal		
107.510	-76.56	-13	-63.57	Horizontal		
284.977	-69.79	-13	-56.80	Horizontal		
747.483	-68.02	-13	-55.03	Horizontal		

Above 1GHz Low channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1673.200	-34.62	-13	-21.62	Vertical
2509.800	-43.13	-13	-30.13	Vertical
3346.400	-48.63	-13	-35.63	Vertical
4183.000	-49.07	-13	-36.07	Vertical
5019.600	-47.39	-13	-34.39	Vertical
5856.200	-46.71	-13	-33.71	Vertical
1673.200	-29.94	-13	-16.94	Horizontal
2509.800	-45.88	-13	-32.88	Horizontal
3346.400	-48.78	-13	-35.78	Horizontal
4183.000	-48.85	-13	-35.85	Horizontal
5019.600	-47.29	-13	-34.29	Horizontal
5856.200	-45.69	-13	-32.69	Horizontal

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Below 1GHz Midd	Below 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
41.567	-75.53	-13	-62.55	Vertical		
54.643	-82.65	-13	-69.67	Vertical		
97.115	-72.89	-13	-59.91	Vertical		
209.313	-79.09	-13	-66.11	Vertical		
447.982	-70.17	-13	-57.19	Vertical		
968.934	-63.54	-13	-50.56	Vertical		
30.638	-53.77	-13	-40.79	Horizontal		
38.481	-66.89	-13	-53.91	Horizontal		
55.805	-75.94	-13	-62.96	Horizontal		
132.685	-64.23	-13	-51.25	Horizontal		
307.831	-69.51	-13	-56.53	Horizontal		
729.358	-67.66	-13	-54.68	Horizontal		

Above 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1648.4	-30.45	-13	-17.45	Vertical	
2472.6	-50.64	-13	-37.64	Vertical	
3296.8	-49.4	-13	-36.4	Vertical	
4121.4	-51.68	-13	-38.68	Vertical	
4945.2	-48.82	-13	-35.82	Vertical	
5769.4	-47.52	-13	-34.52	Vertical	
1648.4	-34.43	-13	-21.43	Horizontal	
2472.6	-46.35	-13	-33.35	Horizontal	
3296.8	-48.39	-13	-35.39	Horizontal	
4121.2	-50.75	-13	-37.75	Horizontal	
4945.2	-48.11	-13	-35.11	Horizontal	
5769.4	-48.05	-13	-35.05	Horizontal	

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Below 1GHz Highe	Below 1GHz Highest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
38.888	-77.97	-13	-64.99	Vertical		
67.202	-68.53	-13	-55.55	Vertical		
87.725	-72.79	-13	-59.81	Vertical		
128.563	-70.8	-13	-57.82	Vertical		
333.687	-76.25	-13	-63.27	Vertical		
737.071	-68.41	-13	-55.43	Vertical		
44.587	-65	-13	-52.02	Horizontal		
71.581	-72.79	-13	-59.81	Horizontal		
111.738	-68.92	-13	-55.94	Horizontal		
189.739	-69.16	-13	-56.18	Horizontal		
275.157	-72.14	-13	-59.16	Horizontal		
776.878	-67.76	-13	-54.78	Horizontal		

Above 1GHz High	Above 1GHz Highest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
1360.714	-68.9	-13	-55.9	Vertical		
1948.245	-65.11	-13	-52.11	Vertical		
3384.85	-51.33	-13	-38.33	Vertical		
5660.469	-56.56	-13	-43.56	Vertical		
7604.867	-53.72	-13	-40.72	Vertical		
8419.999	-53.59	-13	-40.59	Vertical		
1326.513	-69.28	-13	-56.28	Horizontal		
2184.699	-62.99	-13	-49.99	Horizontal		
3384.85	-46.73	-13	-33.73	Horizontal		
4501.492	-57.25	-13	-44.25	Horizontal		
6594.518	-55.11	-13	-42.11	Horizontal		
7820.819	-52.54	-13	-39.54	Horizontal		

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7.1.2 TEST BAND = GSM1900

7.1.2.1 Test Mode = GSM/TM1

7.11.2.1 1 CSt WOO	C = GOM/TIVIT			
Below 1GHz Lowe	est channel			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
38.752	-66.79	-13	-53.80	Vertical
64.433	-75.35	-13	-62.36	Vertical
112.131	-68.38	-13	-55.39	Vertical
154.821	-68.30	-13	-55.31	Vertical
281.995	-70.53	-13	-57.54	Vertical
552.883	-69.87	-13	-56.88	Vertical
42.007	-78.34	-13	-65.35	Horizontal
64.433	-80.60	-13	-67.61	Horizontal
127.665	-70.96	-13	-57.97	Horizontal
188.413	-73.33	-13	-60.34	Horizontal
332.519	-75.16	-13	-62.17	Horizontal
747.483	-68.02	-13	-55.03	Horizontal

Above 1GHz Lowest channel						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
3760.000	-42.09	-13	-29.09	Vertical		
5640.000	-42.35	-13	-29.35	Vertical		
7520.000	-43.60	-13	-30.60	Vertical		
9400.000	-40.75	-13	-27.75	Vertical		
11280.000	-37.85	-13	-24.85	Vertical		
13917.240	-33.44	-13	-20.44	Vertical		
3760.000	-39.89	-13	-26.89	Horizontal		
5640.000	-44.59	-13	-31.59	Horizontal		
7520.000	-43.63	-13	-30.63	Horizontal		
9400.000	-41.44	-13	-28.44	Horizontal		
11280.000	-37.72	-13	-24.72	Horizontal		
13757.270	-33.45	-13	-20.45	Horizontal		

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Below 1GHz Midd	Below 1GHz Middle channel						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization			
45.058	-75.29	-13	-62.29	Vertical			
148.963	-72.25	-13	-59.25	Vertical			
230.099	-69.47	-13	-56.47	Vertical			
300.367	-71.44	-13	-58.44	Vertical			
375.939	-72.94	-13	-59.94	Vertical			
629.477	-69.79	-13	-56.79	Vertical			
104.903	-81.85	-13	-68.85	Horizontal			
165.487	-72.55	-13	-59.55	Horizontal			
250.301	-67.66	-13	-54.66	Horizontal			
350.477	-63.2	-13	-50.2	Horizontal			
452.72	-69.61	-13	-56.61	Horizontal			
755.387	-66.64	-13	-53.64	Horizontal			

Above 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1150.279	-66.29	-13	-53.29	Vertical	
2468.631	-36.87	-13	-23.87	Vertical	
4138.802	-58.08	-13	-45.08	Vertical	
7547.013	-52.54	-13	-39.54	Vertical	
9834.406	-51.4	-13	-38.4	Vertical	
11027.98	-49.74	-13	-36.74	Vertical	
1336.682	-67.23	-13	-54.23	Horizontal	
2013.795	-53.35	-13	-40.35	Horizontal	
3700.26	-54.63	-13	-41.63	Horizontal	
5910.798	-54.81	-13	-41.81	Horizontal	
7489.599	-52.67	-13	-39.67	Horizontal	
11029.98	-49.59	-13	-36.59	Horizontal	

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Below 1GHz Highest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
37.508	-78.79	-13	-65.79	Vertical	
66.713	-81.30	-13	-68.30	Vertical	
125.806	-66.84	-13	-53.84	Vertical	
230.069	-61.35	-13	-48.35	Vertical	
452.272	-70.69	-13	-57.69	Vertical	
629.407	-64.14	-13	-51.14	Vertical	
47.659	-70.63	-13	-57.63	Horizontal	
92.462	-76.3	-13	-63.3	Horizontal	
148.963	-71.82	-13	-58.82	Horizontal	
350.477	-71.85	-13	-58.85	Horizontal	
502.94	-72.62	-13	-59.62	Horizontal	
755.387	-61.1	-13	-48.1	Horizontal	

Above 1GHz Highest channel						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
1706.7	-52.39	-13	-39.39	Vertical		
2468.631	-39.37	-13	-26.37	Vertical		
5631.725	-54.38	-13	-41.38	Vertical		
7394.878	-51.43	-13	-38.43	Vertical		
9370.083	-51.02	-13	-38.02	Vertical		
12334.98	-47.57	-13	-34.57	Vertical		
1326.513	-67.88	-13	-54.88	Horizontal		
3747.656	-55.3	-13	-42.3	Horizontal		
5631.725	-50.35	-13	-37.35	Horizontal		
6478.053	-53.37	-13	-40.37	Horizontal		
9441.913	-51.18	-13	-38.18	Horizontal		
10587.85	-48.72	-13	-35.72	Horizontal		

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7.1.2.2 Test Mode = **GSM/TM2**

Below 1GHz Lowest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
34.760	-77.08	-13	-64.09	Vertical
51.301	-68.35	-13	-55.36	Vertical
85.898	-71.78	-13	-58.79	Vertical
161.474	-65.26	-13	-52.27	Vertical
334.859	-76.17	-13	-63.18	Vertical
796.183	-67.10	-13	-54.11	Vertical
40.988	-78.14	-13	-65.15	Horizontal
45.695	-76.79	-13	-63.80	Horizontal
84.999	-74.81	-13	-61.82	Horizontal
194.453	-77.38	-13	-64.39	Horizontal
519.065	-69.79	-13	-56.80	Horizontal
962.162	-63.63	-13	-50.64	Horizontal

Above 1GHz Lowest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
3760.000	-44.92	-13	-31.92	Vertical	
5640.000	-46.27	-13	-33.27	Vertical	
7520.000	-44.53	-13	-31.53	Vertical	
9400.000	-41.21	-13	-28.21	Vertical	
11100.000	-39.51	-13	-26.51	Vertical	
13917.240	-33.05	-13	-20.05	Vertical	
3760.000	-28.04	-13	-15.04	Horizontal	
5640.000	-47.78	-13	-34.78	Horizontal	
7520.000	-44.31	-13	-31.31	Horizontal	
9400.000	-41.02	-13	-28.02	Horizontal	
11280.000	-39.10	-13	-26.10	Horizontal	
15003.420	-33.04	-13	-20.04	Horizontal	

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Below 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
46.995	-78.6	-13	-65.6	Vertical	
167.824	-74.21	-13	-61.21	Vertical	
250.301	-73.63	-13	-60.63	Vertical	
350.477	-63.06	-13	-50.06	Vertical	
452.72	-72.69	-13	-59.69	Vertical	
755.387	-69.32	-13	-56.32	Vertical	
142.824	-76.68	-13	-63.68	Horizontal	
182.559	-75.7	-13	-62.7	Horizontal	
300.367	-75.83	-13	-62.83	Horizontal	
375.939	-73.81	-13	-60.81	Horizontal	
629.477	-70.22	-13	-57.22	Horizontal	
912.862	-67.6	-13	-54.6	Horizontal	

Above 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1170.959	-66.71	-13	-53.71	Vertical	
3815.033	-54.26	-13	-41.26	Vertical	
4676.696	-57.12	-13	-44.12	Vertical	
6494.564	-53.18	-13	-40.18	Vertical	
9441.913	-50.51	-13	-37.51	Vertical	
10480.59	-49.35	-13	-36.35	Vertical	
1728.561	-47.58	-13	-34.58	Horizontal	
3184.25	-59.94	-13	-46.94	Horizontal	
4455.89	-57.57	-13	-44.57	Horizontal	
7643.683	-52.55	-13	-39.55	Horizontal	
8882.347	-51.59	-13	-38.59	Horizontal E	
12055.6	-47.06	-13	-34.06	Horizontal	



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Below 1GHz Highest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
44.743	-56.42	-13	-43.42	Vertical	
115.726	-78.56	-13	-65.56	Vertical	
166.651	-73.13	-13	-60.13	Vertical	
250.301	-67.35	-13	-54.35	Vertical	
656.53	-63.87	-13	-50.87	Vertical	
782.345	-57.49	-13	-44.49	Vertical	
31.289	-79.46	-13	-66.46	Horizontal	
71.581	-88.77	-13	-75.77	Horizontal	
141.826	-77.28	-13	-64.28	Horizontal	
183.844	-72.21	-13	-59.21	Horizontal	
452.72	-66.14	-13	-53.14	Horizontal	
709.182	-63.28	-13	-50.28	Horizontal	

Above 1GHz Highest channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1672.296	-52.2	-13	-39.2	Vertical	
3241.498	-61.37	-13	-48.37	Vertical	
3700.26	-54.29	-13	-41.29	Vertical	
7604.867	-53.3	-13	-40.3	Vertical	
10269.32	-50.17	-13	-37.17	Vertical	
11963.89	-48.48	-13	-35.48	Vertical	
1371.145	-67.65	-13	-54.65	Horizontal	
3700.26	-53.34	-13	-40.34	Horizontal	
5420.742	-56.66	-13	-43.66	Horizontal	
7721.909	-53.43	-13	-40.43	Horizontal	
8973.25	-51.03	-13	-38.03	Horizontal	
11457.21	-49.55	-13	-36.55	Horizontal	

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7.2 FOR UMTS

7.2.1 TEST BAND = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1

Below 1GHz Low	Below 1GHz Lowest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
44.743	-63.17	-13	-50.18	Vertical	
87.112	-72.01	-13	-59.02	Vertical	
130.379	-64.60	-13	-51.61	Vertical	
156.458	-69.14	-13	-56.15	Vertical	
372.005	-66.21	-13	-53.22	Vertical	
848.056	-66.86	-13	-53.87	Vertical	
40.845	-77.81	-13	-64.82	Horizontal	
54.261	-81.94	-13	-68.95	Horizontal	
95.427	-72.82	-13	-59.83	Horizontal	
149.486	-70.47	-13	-57.48	Horizontal	
350.477	-73.10	-13	-60.11	Horizontal	
774.158	-67.41	-13	-54.42	Horizontal	

Above 1GHz Lowest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1648.400	-34.43	-13	-21.43	Vertical
2472.600	-44.85	-13	-31.85	Vertical
3296.800	-48.39	-13	-35.39	Vertical
4121.000	-48.75	-13	-35.75	Vertical
4945.200	-47.41	-13	-34.41	Vertical
5769.400	-46.65	-13	-33.65	Vertical
1648.400	-30.45	-13	-17.45	Horizontal
2472.600	-49.14	-13	-36.14	Horizontal
3296.800	-49.40	-13	-36.40	Horizontal
4121.000	-49.68	-13	-36.68	Horizontal
4945.200	-48.12	-13	-35.12	Horizontal
5769.400	-46.12	-13	-33.12	Horizontal

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Below 1GHz Middle channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
169.005	-72.05	-13	-59.05	Vertical
452.72	-69.68	-13	-56.68	Vertical
550.948	-71.63	-13	-58.63	Vertical
629.477	-63.58	-13	-50.58	Vertical
755.387	-60.35	-13	-47.35	Vertical
948.761	-65.77	-13	-52.77	Vertical
45.685	-67.48	-13	-54.48	Horizontal
375.919	-72.47	-13	-59.47	Horizontal
452.772	-70.96	-13	-57.96	Horizontal
535.767	-75.62	-13	-62.62	Horizontal
629.457	-70.03	-13	-57.03	Horizontal
952.384	-65.53	-13	-52.53	Horizontal

Above 1GHz Middle channel					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1353.804	-68.4	-13	-55.4	Vertical	
1913.838	-62.84	-13	-49.84	Vertical	
2468.631	-51.11	-13	-38.11	Vertical	
3026.195	-59.9	-13	-46.9	Vertical	
4971.316	-57.82	-13	-44.82	Vertical	
5689.36	-56.3	-13	-43.3	Vertical	
1138.626	-67.9	-13	-54.9	Horizontal	
1913.838	-61.27	-13	-48.27	Horizontal	
2468.631	-47.99	-13	-34.99	Horizontal	
3625.669	-59.88	-13	-46.88	Horizontal	
4641.118	-55.81	-13	-42.81	Horizontal	
5674.896	-55.47	-13	-42.47	Horizontal	

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Below 1GHz Highest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
165.487	-72.42	-13	-59.42	Vertical
230.099	-71.26	-13	-58.26	Vertical
452.72	-68.92	-13	-55.92	Vertical
629.477	-70.07	-13	-57.07	Vertical
755.387	-67.13	-13	-54.13	Vertical
945.44	-65.32	-13	-52.32	Vertical
92.462	-75.65	-13	-62.65	Horizontal
165.487	-72.89	-13	-59.89	Horizontal
350.477	-71.7	-13	-58.7	Horizontal
502.94	-70.99	-13	-57.99	Horizontal
651.942	-68.57	-13	-55.57	Horizontal
965.542	-65.84	-13	-52.84	Horizontal

Above 1GHz Highest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1706.7	-64.17	-13	-51.17	Vertical
1988.327	-41.83	-13	-28.83	Vertical
2468.631	-40.52	-13	-27.52	Vertical
3241.498	-60.13	-13	-47.13	Vertical
4536	-56.13	-13	-43.13	Vertical
5791.646	-55.77	-13	-42.77	Vertical
1464.963	-66.46	-13	-53.46	Horizontal
1953.211	-42.44	-13	-29.44	Horizontal
2468.631	-42.28	-13	-29.28	Horizontal
3561.636	-60.04	-13	-47.04	Horizontal
4490.048	-56.51	-13	-43.51	Horizontal
5865.832	-55.19	-13	-42.19	Horizontal

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7.2.2 TEST BAND = WCDMA1900

7.2.2.1 Test Mode = UMTS/TM1

Below 1GHz Lowe	Below 1GHz Lowest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
37.812	-71.79	-13	-58.80	Vertical	
59.859	-76.97	-13	-63.98	Vertical	
115.726	-66.09	-13	-53.10	Vertical	
183.201	-71.07	-13	-58.08	Vertical	
300.367	-71.40	-13	-58.41	Vertical	
776.878	-67.76	-13	-54.77	Vertical	
36.637	-81.28	-13	-68.29	Horizontal	
68.631	-69.10	-13	-56.11	Horizontal	
139.851	-72.38	-13	-59.39	Horizontal	
210.786	-79.05	-13	-66.06	Horizontal	
322.189	-66.95	-13	-53.96	Horizontal	
801.786	-66.27	-13	-53.28	Horizontal	

Above 1GHz Lowe	Above 1GHz Lowest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
3819.600	-45.49	-13	-32.49	Vertical	
5726.400	-47.07	-13	-34.07	Vertical	
7636.200	-43.35	-13	-30.35	Vertical	
9546.000	-40.47	-13	-27.47	Vertical	
11455.800	-38.08	-13	-25.08	Vertical	
14873.890	-33.33	-13	-20.33	Vertical	
3819.600	-45.81	-13	-32.81	Horizontal	
5726.400	-46.22	-13	-33.22	Horizontal	
7636.200	-43.57	-13	-30.57	Horizontal	
9546.000	-40.17	-13	-27.17	Horizontal	
11455.800	-38.28	-13	-25.28	Horizontal	
13917.240	-32.97	-13	-19.97	Horizontal	

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Below 1GHz Middl	Below 1GHz Middle channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
142.824	-73.69	-13	-60.69	Vertical	
230.099	-72.82	-13	-59.82	Vertical	
350.477	-61.96	-13	-48.96	Vertical	
452.72	-70.83	-13	-57.83	Vertical	
755.387	-66.79	-13	-53.79	Vertical	
875.247	-65.67	-13	-52.67	Vertical	
165.487	-71.63	-13	-58.63	Horizontal	
230.099	-71.08	-13	-58.08	Horizontal	
300.367	-71.47	-13	-58.47	Horizontal	
452.72	-70.81	-13	-57.81	Horizontal	
629.477	-69.53	-13	-56.53	Horizontal	
755.387	-67.65	-13	-54.65	Horizontal	

Above 1GHz Middle channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2468.631	-51.15	-13	-38.15	Vertical
4594.102	-56.67	-13	-43.67	Vertical
6886.154	-53.29	-13	-40.29	Vertical
8527.851	-51.42	-13	-38.42	Vertical
10453.95	-49.31	-13	-36.31	Vertical
12334.98	-46.79	-13	-33.79	Vertical
1173.943	-68.15	-13	-55.15	Horizontal
2468.631	-49.85	-13	-36.85	Horizontal
4641.118	-56.43	-13	-43.43	Horizontal
5504.17	-56.26	-13	-43.26	Horizontal
7470.558	-51.81	-13	-38.81	Horizontal
9370.083	-51.25	-13	-38.25	Horizontal

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Below 1GHz Highest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
47.659	-69.73	-13	-56.73	Vertical
104.903	-74.2	-13	-61.2	Vertical
165.487	-73.45	-13	-60.45	Vertical
350.477	-72.32	-13	-59.32	Vertical
502.94	-71.64	-13	-58.64	Vertical
755.387	-60.17	-13	-47.17	Vertical
166.651	-71.5	-13	-58.5	Horizontal
300.367	-70.19	-13	-57.19	Horizontal
350.477	-63.02	-13	-50.02	Horizontal
452.72	-69.69	-13	-56.69	Horizontal
629.477	-70.81	-13	-57.81	Horizontal
919.287	-66.03	-13	-53.03	Horizontal

Above 1GHz Highest channel				
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1147.354	-70.06	-13	-57.06	Vertical
2468.631	-54.92	-13	-41.92	Vertical
3184.25	-60.86	-13	-47.86	Vertical
5244.295	-57.17	-13	-44.17	Vertical
6561.03	-54.18	-13	-41.18	Vertical
8814.774	-53.48	-13	-40.48	Vertical
1150.279	-67.88	-13	-54.88	Horizontal
3747.656	-59.09	-13	-46.09	Horizontal
5850.919	-54.99	-13	-41.99	Horizontal
6956.627	-53.39	-13	-40.39	Horizontal
8725.477	-51.99	-13	-38.99	Horizontal
12303.62	-46.98	-13	-33.98	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) Pretest was performed at the EUT in low, middle, high channel, but only the worst test channel (Channel 192 for GSM850 and Channel 661 for GSM1900) and only the data of the worst case show in the test report.



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8 8Appendix_H: Frequency Stability

8.1 8.1 FOR GSM

8.1.1 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
		LCH		VL	-3.05	-0.00370	PASS
			TN	VN	-7.95	-0.00965	PASS
				VH	0.57	0.00069	PASS
	GSM/TM1			VL	-7.69	-0.00919	PASS
	GSIVI/TIVIT	MCH	TN	VN	-6.47	-0.00773	PASS
				VH	-5.11	-0.00611	PASS
				VL	-1.17	-0.00138	PASS
		HCH	TN	VN	-5.89	-0.00694	PASS
GSM850				VH	-9.31	-0.01097	PASS
GSIVIOSO		LCH		VL	-5.79	-0.00702	PASS
			TN	VN	-11.25	-0.01365	PASS
				VH	-4.18	-0.00507	PASS
				VL	-7.24	-0.00865	PASS
	GSM/TM2	MCH	TN	VN	-15.16	-0.01812	PASS
				VH	-7.60	-0.00908	PASS
				VL	-7.73	-0.00911	PASS
		HCH	TN	VN	-3.15	-0.00371	PASS
				VH	-10.41	-0.01226	PASS
		LCH		VL	-12.58	-0.00680	PASS
			TN	VN	-9.93	-0.00537	PASS
				VH	-8.38	-0.00453	PASS
	GSM/TM1			VL	-2.24	-0.00119	PASS
	G. G. W	MCH	TN	VN	-1.53	-0.00081	PASS
				VH	-7.22	-0.00384	PASS
				VL	-0.89	-0.00047	PASS
		HCH	TN	VN	-8.39	-0.00439	PASS
GSM1900				VH	-19.04	-0.00997	PASS
downood		LCH		VL	3.72	0.00201	PASS
			TN	VN	-5.58	-0.00302	PASS
				VH	-7.84	-0.00424	PASS
			_	VL	-18.82	-0.01001	PASS
	GSM/TM2	MCH	TN	VN	-2.04	-0.00106	PASS
				VH	-14.43	-0.00768	PASS
				VL	-6.94	-0.00363	PASS
		HCH	TN	VN	-10.75	-0.00563	PASS
				VH	-9.49	-0.00497	PASS

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8.1.2 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
				-30	-1.95	-0.00237	PASS
				-20	-1.24	-0.00150	PASS
				-10	-1.56	-0.00189	PASS
		LCH		0	-3.5	-0.00425	PASS
			VN	10	1.28	0.00155	PASS
				20	2.51	0.00305	PASS
				30	2.18	0.00264	PASS
				40	0.7	0.00085	PASS
				50	5.8	0.00704	PASS
				-30	-0.14	-0.00017	PASS
				-20	2.57	0.00307	PASS
				-10	-0.66	-0.00079	PASS
	GSM/TM1			0	-2.01	-0.00240	PASS
	GSIVI/TIVIT	MCH	VN	10	0.73	0.00087	PASS
				20	-0.82	-0.00098	PASS
				30	1.24	0.00148	PASS
				40	1.82	0.00218	PASS
				50	2.66	0.00318	PASS
		НСН	VN	-30	0.47	0.00055	PASS
				-20	5.12	0.00603	PASS
				-10	-0.5	-0.00059	PASS
GSM850				0	-0.95	-0.00112	PASS
				10	-0.69	-0.00081	PASS
				20	-0.95	-0.00112	PASS
				30	-1.15	-0.00135	PASS
				40	-2.32	-0.00273	PASS
				50	-0.25	-0.00029	PASS
		LCH	ZV	-30	-4.55	-0.00552	PASS
				-20	-1.29	-0.00157	PASS
				-10	-5.29	-0.00642	PASS
				0	-4.1	-0.00497	PASS
				10	-3.26	-0.00396	PASS
				20	-1.96	-0.00238	PASS
				30	-10.1	-0.01225	PASS
	GSM/TM2			40	0.75	0.00091	PASS
	GOIVI/ I IVIZ			50	0.97	0.00118	PASS
				-30	0.48	0.00057	PASS
				-20	-0.17	-0.00020	PASS
				-10	-8.33	-0.00996	PASS
		MCH	VN	0	-1.94	-0.00232	PASS
				10	-1.68	-0.00201	PASS
				20	-3.49	-0.00417	PASS
				30	0.38	0.00045	PASS



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						age. o		
				40	-5.36	-0.00641	PASS	
				50	-6.07	-0.00726	PASS	
				-30	-5.7	-0.00672	PASS	
				-20	-7.18	-0.00846	PASS	
				-10	-5.05	-0.00595	PASS	
				0	-3.79	-0.00447	PASS	
		HCH	VN	10	-10.22	-0.01204	PASS	
				20	-9.63	-0.01135	PASS	
				30	-1.5	-0.00177	PASS	
				40	-8.57	-0.01010	PASS	
				50	-3.63	-0.00428	PASS	
				-30	-14.99	-0.00810	PASS	
				-20	-8.92	-0.00482	PASS	
				-10	-14.09	-0.00762	PASS	
		LCH		0	-2.27	-0.00123	PASS	
			VN	10	1.6	0.00086	PASS	
				20	-5.11	-0.00276	PASS	
				30	-13.89	-0.00751	PASS	
				40	-10.47	-0.00566	PASS	
				50	1.28	0.00069	PASS	
	GSM/TM1	MCH		-30	-5.82	-0.00310	PASS	
			VN	-20	-7.44	-0.00396	PASS	
				-10	-13.18	-0.00701	PASS	
				0	-0.72	-0.00038	PASS	
				10	-15.03	-0.00799	PASS	
				20	-7.34	-0.00390	PASS	
				30	2.73	0.00145	PASS	
				40	-8.57	-0.00456	PASS	
				50	-11.61	-0.00618	PASS	
				-30	-14.38	-0.00753	PASS	
GSM1900				-20	-4.89	-0.00256	PASS	
				-10	-6.44	-0.00337	PASS	
				0	-11.41	-0.00597	PASS	
		HCH	VN	10	1.37	0.00072	PASS	
				20	2.92	0.00153	PASS	
				30	-5.99	-0.00314	PASS	
				40	-13.56	-0.00710	PASS	
				50	-2.13	-0.00112	PASS	
				-30	-12.23	-0.00661	PASS	
				-20	-10.36	-0.00560	PASS C F	The state of
				-10	-12.01	-0.00649	PASS	0
		LCH		0	-15.23	-0.00823	//PASS CCC	10
			VN	10	-12.68	-0.00685	PASS-	P
	CCN/TNAC			20	-15.75	-0.00851	PASS VAT HILL	AB
	GSM/TM2			30	-16.17	-0.00874	PASS	/
				40	1.39	0.00075	PASS	5
				50	-18.37	-0.00993	PASS // ZH	//
				-30	-6.36	-0.00338	PASS	
		MCH	VN	-20	-16.08	-0.00855	PASS	
	I		1	-10	0.03	0.00002	PASS	



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			0	-5.23	-0.00278	PASS
		10	-4.62	-0.00246	PASS	
			20	-14.89	-0.00792	PASS
			30	-22.93	-0.01220	PASS
			40	-2.49	-0.00132	PASS
			50	-20.28	-0.01079	PASS
		VN	-30	-20.68	-0.01083	PASS
			-20	-10.47	-0.00548	PASS
			-10	-11.77	-0.00616	PASS
			0	-16.8	-0.00880	PASS
	HCH		10	-17.32	-0.00907	PASS
			20	-21.00	-0.01100	PASS
			30	-9.92	-0.00519	PASS
			40	-7.21	-0.00378	PASS
			50	-22.48	-0.01177	PASS



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8.2 8.2 FOR UMTS

8.2.1 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
		LCH		VL	0.33	0.00040	PASS
			TN	VN	3.06	0.00370	PASS
				VH	0.79	0.00096	PASS
	UMTS/TM1			VL	-1.07	-0.00128	PASS
WCDMA850		MCH	TN	VN	0.35	0.00042	PASS
				VH	1.42	0.00170	PASS
				VL	-0.87	-0.00103	PASS
		HCH	TN	VN	-1.96	-0.00232	PASS
				VH	-0.31	-0.00037	PASS
		LCH		VL	-7.01	-0.00378	PASS
	UMTS/TM1		TN	VN	-3.93	-0.00212	PASS
				VH	-7.63	-0.00412	PASS
				VL	-6.26	-0.00333	PASS
WCDMA1900	OIVITS/TIVIT	MCH	TN	VN	-9.22	-0.00490	PASS
				VH	-5.51	-0.00293	PASS
				VL	-5.45	-0.00286	PASS
		HCH	TN	VN	-10.15	-0.00532	PASS
				VH	-2.29	-0.00120	PASS



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8.2.2 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	-12.06	-0.00652	PASS
				-20	-7.22	-0.00390	PASS
				-10	-13.25	-0.00716	PASS
				0	-4.74	-0.00256	PASS
				10	2.38	0.00129	PASS
				20	-6.74	-0.00364	PASS
				30	-12.04	-0.00651	PASS
				40	-10.31	-0.00557	PASS
				50	0.43	0.00023	PASS
		MCH	VN	-30	-7.42	-0.00395	PASS
				-20	-8.31	-0.00442	PASS
				-10	-13.31	-0.00708	PASS
				0	-1.86	-0.00099	PASS
				10	-12.84	-0.00683	PASS
				20	-5.73	-0.00305	PASS
				30	4.23	0.00225	PASS
				40	-8.61	-0.00458	PASS
				50	-12.11	-0.00644	PASS
		HCH	VN	-30	-14.68	-0.00769	PASS
				-20	-4.37	-0.00229	PASS
				-10	-6.01	-0.00315	PASS
				0	-13.08	-0.00685	PASS
				10	2.79	0.00146	PASS
				20	-0.04	-0.00002	PASS
				30	-3.47	-0.00182	PASS
				40	-14	-0.00733	PASS
				50	-4.6	-0.00241	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	-17.53	-0.00947	PASS
				-20	-19.13	-0.01034	PASS
				-10	-17.79	-0.00962	PASS
				0	-22.54	-0.01218	PASS
				10	-18.14	-0.00980	PASS
				20	-19.67	-0.01063	PASS
				30	-25.94	-0.01402	PASS
				40	-4.13	-0.00223	PASS
				50	-22.92	-0.01239	PASS
		MCH	VN	-30	-13.36	-0.00711	PASS
				-20	-24.43	-0.01299	PASS
				-10	-4.54	-0.00241	PASS
				0	-13.22	-0.00703	PASS
				10	-9.95	-0.00529	PASS
				20	-21.55	-0.01146	PASS
				30	-32.29	-0.01718	PASS
				40	-10.72	-0.00570	PASS
				50	-26.51	-0.01410	PASS
		HCH	VN	-30	-26.86	-0.01406	PASS



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-20	-16.94	-0.00887	PASS
-10	-19.47	-0.01019	PASS
0	-24.03	-0.01258	PASS
10	-24.32	-0.01273	PASS
20	-24.96	-0.01307	PASS
30	-17.07	-0.00894	PASS
40	-9.98	-0.00523	PASS
50	-27.48	-0.01439	PASS

The END