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5.6 BAND EDGE AT ANTENNA TERMINALS

FCC 47 CFR Part 2.1051,

Test Requirement: FCC 47 CFR Part 22.917(a),

FCC 47 CFR Part 24.238(a),

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

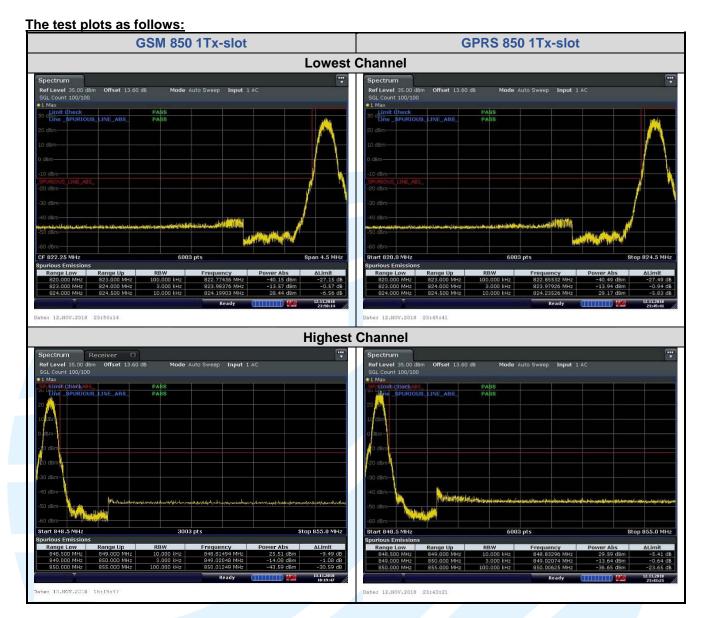
- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

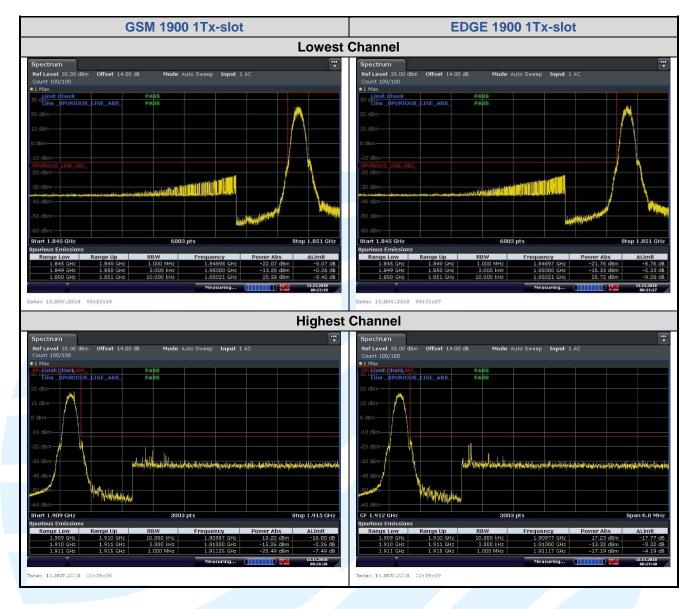
Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode
Test Results: Pass

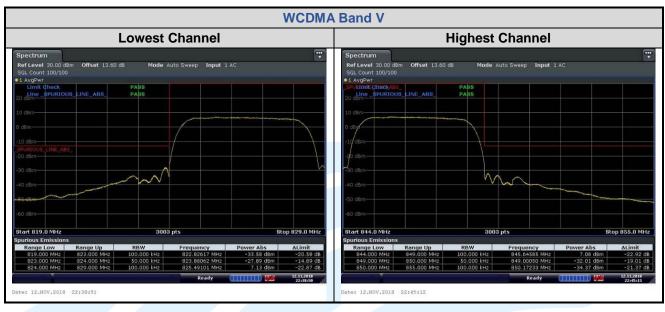


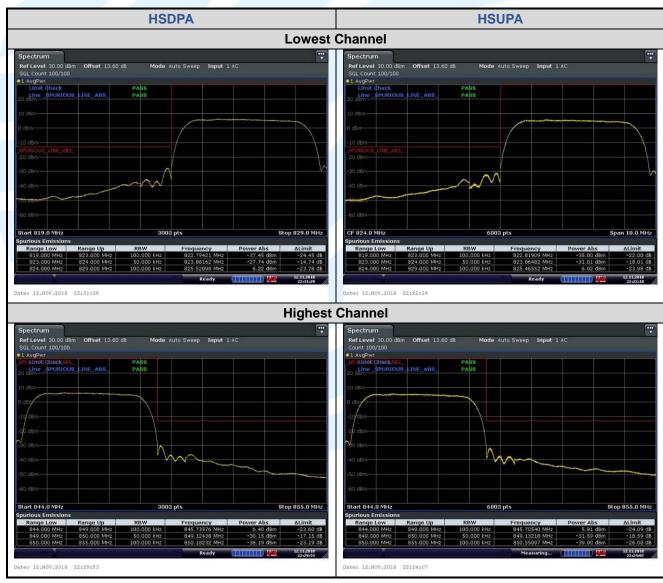














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5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

FCC 47 CFR Part 2.1051,

Test Requirement: FCC 47 CFR Part 22.917(a)(b),

FCC 47 CFR Part 24.238(a)(b),

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

Test Procedure:

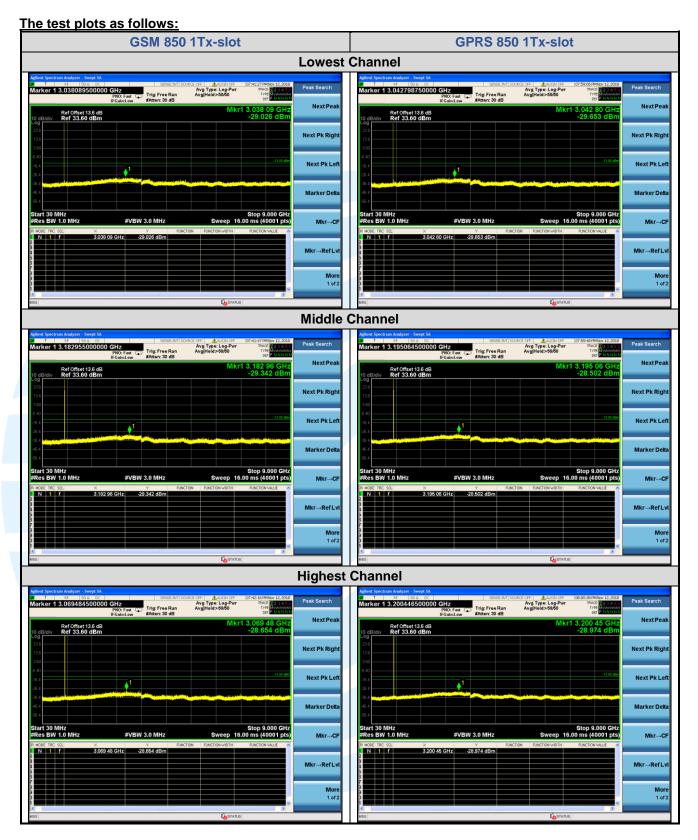
The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

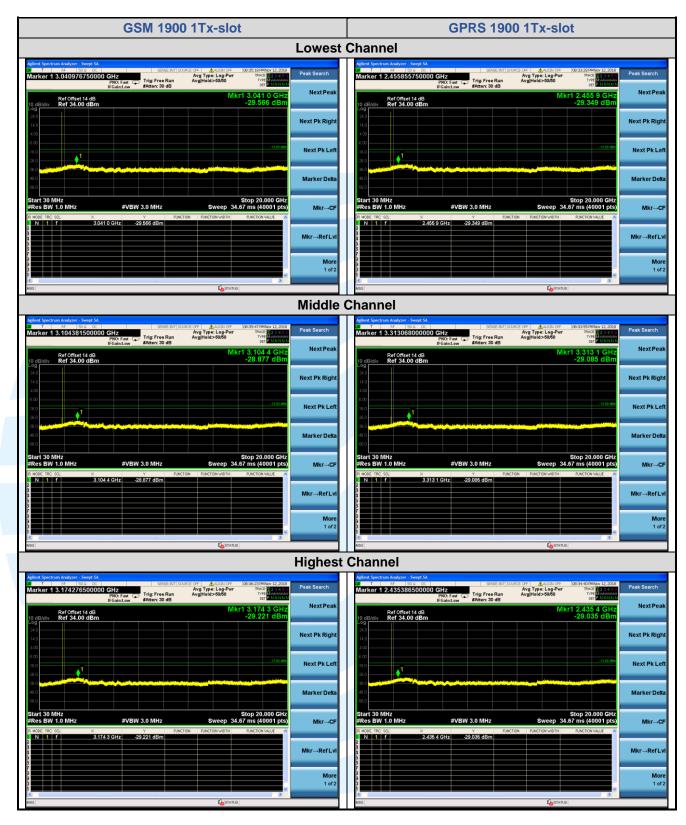
Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode
Test Results: Pass

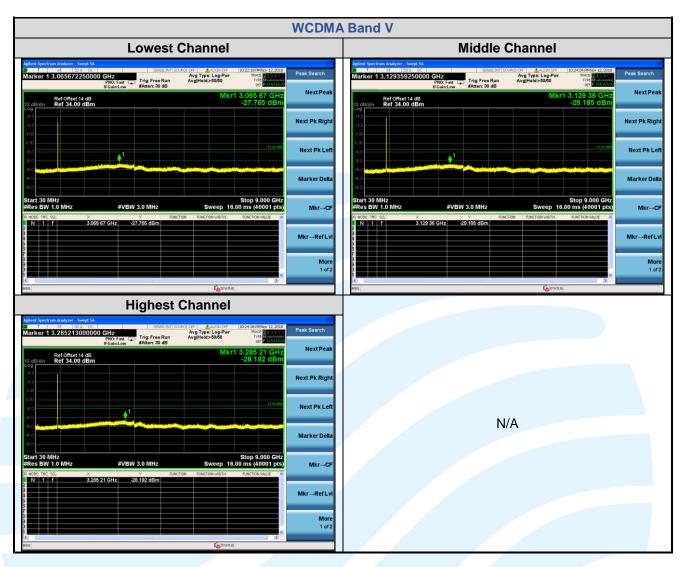




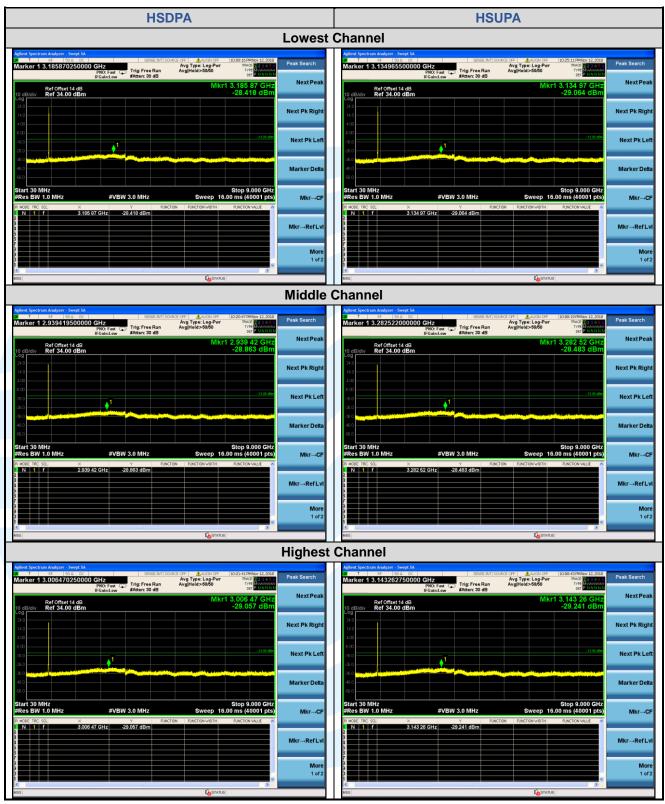












Remark

1) All the above conduction data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.



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5.8 FIELD STRENGTH OF SPURIOUS RADIATION

FCC 47 CFR Part 2.1051,

Test Requirement: FCC 47 CFR Part 22.917(a)(b), FCC 47 CFR Part 24.238(a)(b),

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures:

- 1. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
- 2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 0.8/1.5m high table at a 3 meter semi/fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

where:

Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel, the middle channel the Highest channel
- 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, and found the Y axis positioning which it is worse case.
- 12) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

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5.8.1 Radiated Emission Test Data (30 MHz to 1 GHz)

GSM 8	GSM 850 1Tx-slot_Lowest Channel										
Horizontal											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	136.875	-73.84	20.36	-53.48	-13.00	-40.48	Peak				
2	200.043	-78.17	22.92	-55.25	-13.00	-42.25	Peak				
3	452.001	-85.73	32.05	-53.68	-13.00	-40.68	Peak				

Vertica	/ertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	42.331	-79.91	21.15	-58.76	-13.00	-45.76	Peak			
2	200.043	-81.64	22.92	-58.72	-13.00	-45.72	Peak			
3	642.292	-87.12	36.05	-51.07	-13.00	-38.07	Peak			

	GSM 8	50 1Tx-slot_M	iddle Channe					
	Horizo	ntal						
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
I	1	135.916	-73.78	20.38	-53.40	-13.00	-40.40	Peak
I	2	200.043	-79.10	22.92	-56.18	-13.00	-43.18	Peak
	3	327.155	-83.24	27.53	-55.71	-13.00	-42.71	Peak

Vertica	Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	39.182	-81.34	22.46	-58.88	-13.00	-45.88	Peak		
2	42.035	-79.43	21.26	-58.17	-13.00	-45.17	Peak		
3	200.043	-79.25	22.92	-56.33	-13.00	-43.33	Peak		

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GSM 850 1Tx-slot_Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	32.184	-80.84	26.51	-54.33	-13.00	-41.33	Peak
2	137.840	-74.04	20.33	-53.71	-13.00	-40.71	Peak
3	200.043	-77.95	22.92	-55.03	-13.00	-42.03	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	32.184	-82.64	26.51	-56.13	-13.00	-43.13	Peak				
2	42.331	-81.35	21.15	-60.20	-13.00	-47.20	Peak				
3	200.043	-80.21	22.92	-57.29	-13.00	-44.29	Peak				

GSM 1900 1Tx-slot_Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	135.916	-44.83	-8.19	-53.02	-13.00	-40.02	Peak
2	200.043	-50.57	-5.43	-56.00	-13.00	-43.00	Peak
3	804.252	-57.49	8.55	-48.94	-13.00	-35.94	Peak

Vertica	l						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	41.741	-54.08	-7.59	-61.67	-13.00	-48.67	Peak
2	200.043	-52.40	-5.43	-57.83	-13.00	-44.83	Peak
3	804.252	-55.38	8.55	-46.83	-13.00	-33.83	Peak



GSM 1900 1Tx-slot_Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	137.840	-44.26	-8.24	-52.50	-13.00	-39.50	Peak
2	200.043	-51.16	-5.43	-56.59	-13.00	-43.59	Peak
3	804.252	-57.22	8.55	-48.67	-13.00	-35.67	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	42.035	-54.25	-7.69	-61.94	-13.00	-48.94	Peak				
2	200.043	-52.44	-5.43	-57.87	-13.00	-44.87	Peak				
3	804.252	-56.01	8.55	-47.46	-13.00	-34.46	Peak				

GSM 1900 1Tx-slot_Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	138.812	-45.20	-8.24	-53.44	-13.00	-40.44	Peak
2	200.043	-50.29	-5.43	-55.72	-13.00	-42.72	Peak
3	804.252	-58.00	8.55	-49.45	-13.00	-36.45	Peak

Vertica	Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	41.741	-54.17	-7.59	-61.76	-13.00	-48.76	Peak	
2	200.043	-51.98	-5.43	-57.41	-13.00	-44.41	Peak	
3	804.252	-55.15	8.55	-46.60	-13.00	-33.60	Peak	

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WCDMA Band V RMC 12.2Kbps_Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	42.931	-81.26	20.94	-60.32	-13.00	-47.32	Peak
2	135.916	-72.89	20.38	-52.51	-13.00	-39.51	Peak
3	200.043	-78.80	22.92	-55.88	-13.00	-42.88	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	32.184	-84.88	26.51	-58.37	-13.00	-45.37	Peak				
2	200.043	-81.56	22.92	-58.64	-13.00	-45.64	Peak				
3	693.910	-86.00	37.16	-48.84	-13.00	-35.84	Peak				

WCDMA Band V RMC 12.2Kbps_Middle Channel

١				Correction				
	No.	Frequency (MHz)	Reading (dBm)	factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	35.762	-85.18	24.44	-60.74	-13.00	-47.74	Peak
	2	135.916	-73.69	20.38	-53.31	-13.00	-40.31	Peak
	3	200.043	-79.29	22.92	-56.37	-13.00	-43.37	Peak

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	31.959	-86.37	26.64	-59.73	-13.00	-46.73	Peak
2	42.331	-79.34	21.15	-58.19	-13.00	-45.19	Peak
3	200.043	-80.84	22.92	-57.92	-13.00	-44.92	Peak

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WCDMA Band V RMC 12.2Kbps_Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	32.184	-83.54	26.51	-57.03	-13.00	-44.03	Peak
2	135.916	-73.77	20.38	-53.39	-13.00	-40.39	Peak
3	200.043	-79.93	22.92	-57.01	-13.00	-44.01	Peak

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	32.184	-84.22	26.51	-57.71	-13.00	-44.71	Peak		
2	42.035	-81.03	21.26	-59.77	-13.00	-46.77	Peak		
3	200.043	-80.39	22.92	-57.47	-13.00	-44.47	Peak		

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5.8.2 Radiated Emission Test Data (Above 1GHz)

GSM 8	GSM 850 1Tx-slot_Lowest Channel										
Horizo	Horizontal										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	1648.400	-63.53	3.59	-59.94	-13.00	-46.94	Peak				
2	2472.600	-72.56	11.19	-61.37	-13.00	-48.37	Peak				

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	1648.400	-62.29	3.59	-58.70	-13.00	-45.70	Peak				
2	2472.600	-74.17	11.19	-62.98	-13.00	-49.98	Peak				

	GSM 8	GSM 850 1Tx-slot_Middle Channel										
Horizontal												
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
ĺ	1	1673.200	-68.55	3.88	-64.67	-13.00	-51.67	Peak				
	2	2509.800	-73.47	11.16	-62.31	-13.00	-49.31	Peak				

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-67.35	3.88	-63.47	-13.00	-50.47	Peak
2	2509.800	-75.11	11.16	-63.95	-13.00	-50.95	Peak

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GSM 850 1Tx-slot_Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-66.37	4.17	-62.20	-13.00	-49.20	Peak
2	2546.400	-72.85	11.14	-61.71	-13.00	-48.71	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-64.77	4.17	-60.60	-13.00	-47.60	Peak
2	2546.400	-72.74	11.14	-61.60	-13.00	-48.60	Peak

GSM 1900 1Tx-slot_Lowest Channel

	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
ı	1	3700.400	-68.15	13.73	-54.42	-13.00	-41.42	Peak
	2	5550.600	-65.03	16.08	-48.95	-13.00	-35.95	Peak

Vertica	nĪ						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-72.01	13.73	-58.28	-13.00	-45.28	Peak
2	5550.600	-66.58	16.08	-50.50	-13.00	-37.50	Peak



GSM 1900 1Tx-slot_Middle Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-72.39	13.58	-58.81	-13.00	-45.81	Peak
2	5640.000	-67.58	16.27	-51.31	-13.00	-38.31	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-72.47	13.58	-58.89	-13.00	-45.89	Peak
2	5640.000	-66.22	16.27	-49.95	-13.00	-36.95	Peak

GSM 1900 1Tx-slot_Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-70.21	13.44	-56.77	-13.00	-43.77	Peak
2	5729.400	-65.08	16.66	-48.42	-13.00	-35.42	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-68.37	13.44	-54.93	-13.00	-41.93	Peak
2	5729.400	-65.19	16.66	-48.53	-13.00	-35.53	Peak

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WCDMA Band V RMC 12.2Kbps_Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1652.800	-54.37	3.64	-50.73	-13.00	-37.73	Peak
2	2479.200	-62.10	11.18	-50.92	-13.00	-37.92	Peak

Vertica	ıl			Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark						
1	1652.800	-60.67	3.64	-57.03	-13.00	-44.03	Peak						
2	2479.200	-65.20	11.18	-54.02	-13.00	-41.02	Peak						

WCDMA Band V RMC 12.2Kbps_Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1672.800	-59.48	3.88	-55.60	-13.00	-42.60	Peak
2	2509.200	-66.66	11.16	-55.50	-13.00	-42.50	Peak

Ver	tica	l							
No	ο.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1		1672.800	-59.90	3.88	-56.02	-13.00	-43.02	Peak	
2		2509.200	-67.95	11.16	-56.79	-13.00	-43.79	Peak	



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WCDMA Band V RMC 12.2Kbps_Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-60.69	4.11	-56.58	-13.00	-43.58	Peak
2	2539.800	-65.57	11.14	-54.43	-13.00	-41.43	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-63.10	4.11	-58.99	-13.00	-45.99	Peak
2	2539.800	-70.55	11.14	-59.41	-13.00	-46.41	Peak



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5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355 **Test Method:** ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limits: The carrier frequency shall not depart from the reference frequency in excess of ±2.5

ppm for mobile stations.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.

a) Temp. = -30° to + 50° C

b) Voltage = low voltage, 3.53 Vdc, Normal, 3.7 Vdc and High voltage, 4.12 Vdc.

2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

	Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
		(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
GSM 850 1Tx-slot								
			VL		-7	-0.0084	± 2.5	Pass
			VN	TN	-9	-0.0108	± 2.5	Pass
			VH		-5	-0.0060	± 2.5	Pass
		400 / 000 0		50	-11	-0.0131	± 2.5	Pass
				40	-13	-0.0155	± 2.5	Pass
	GMSK			30	7	0.0084	± 2.5	Pass
	GIVISK	190 / 836.6		20	9	0.0108	± 2.5	Pass
			VN	10	5	0.0060	± 2.5	Pass
				0	7	0.0084	± 2.5	Pass
				-10	7	0.0084	± 2.5	Pass
				-20	6	0.0072	± 2.5	Pass
				-30	9	0.0108	± 2.5	Pass



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Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail		
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)			
WCDMA Band V RMC 12.2Kbps									
		VL	TN	-5	-0.0060	± 2.5	Pass		
		VN VH		7	0.0084	± 2.5	Pass		
				5	0.0060	± 2.5	Pass		
	4182 / 836.4	VN	50	-14	-0.0167	± 2.5	Pass		
			40	-13	-0.0155	± 2.5	Pass		
BPSK			30	-8	-0.0096	± 2.5	Pass		
BPSK			20	-7	-0.0084	± 2.5	Pass		
			10	9	0.0108	± 2.5	Pass		
			0	8	0.0096	± 2.5	Pass		
			-10	7	0.0084	± 2.5	Pass		
			-20	9	0.0108	± 2.5	Pass		
			-30	6	0.0072	± 2.5	Pass		

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			GSM 1900	1Tx-slot			
		VL	TN	7	0.0037	Note 1	Pass
		VN		-9	-0.0048		Pass
		VH		-5	-0.0027		Pass
			50	-11	-0.0059		Pass
			40	-13	-0.0069		Pass
GMSK	661 / 1880.0		30	-11	-0.0059		Pass
GIVISK	0017 1000.0	VN	20	-7	-0.0037		Pass
			10	5	0.0027		Pass
			0	8	0.0043		Pass
			-10	7	0.0037		Pass
			-20	5	0.0027		Pass
			-30	4	0.0021		Pass

Note1: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.



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APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

