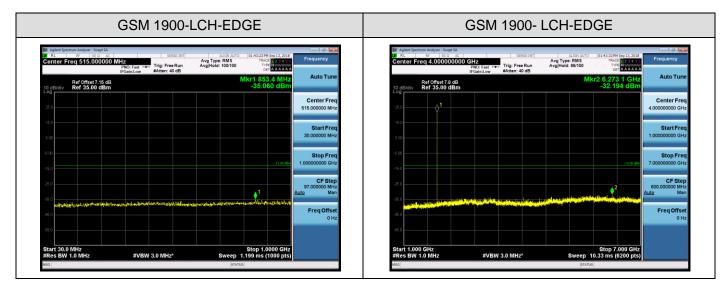
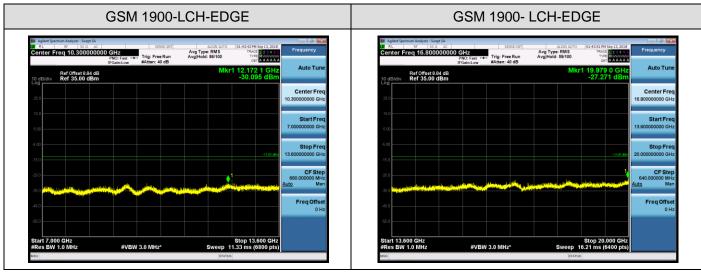


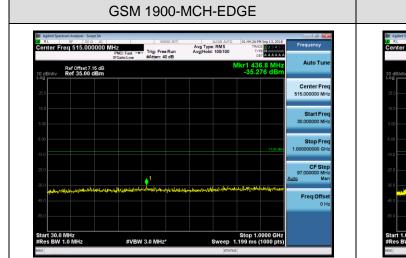
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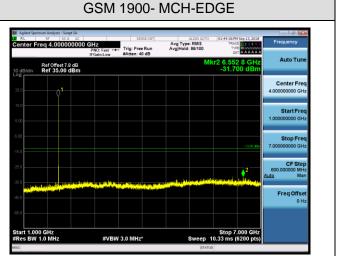


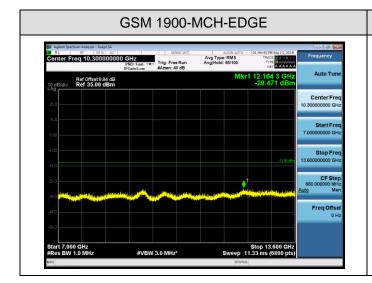


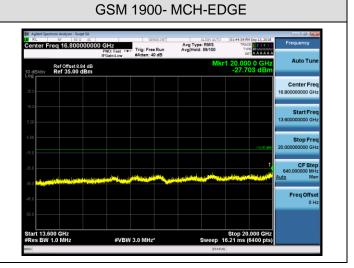


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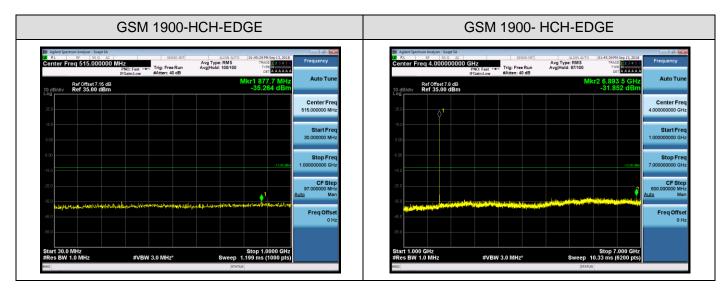


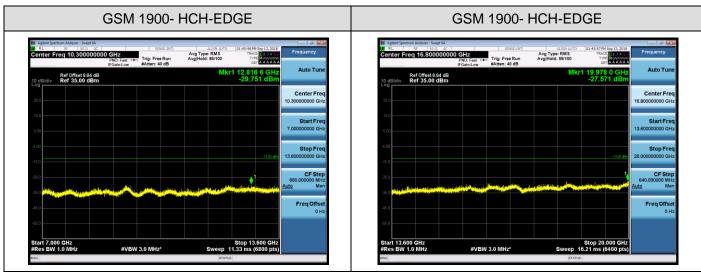






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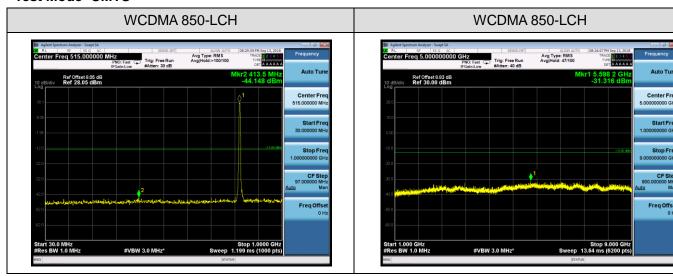


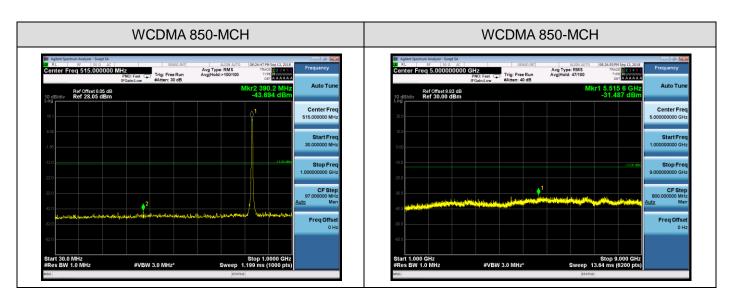


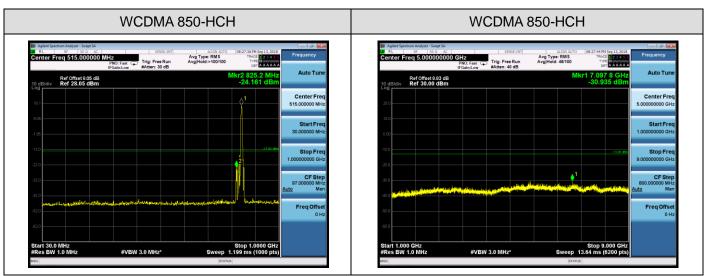
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## Test Band=WCDMA850/WCDMA1700/WCDMA1900

#### **Test Mode=UMTS**

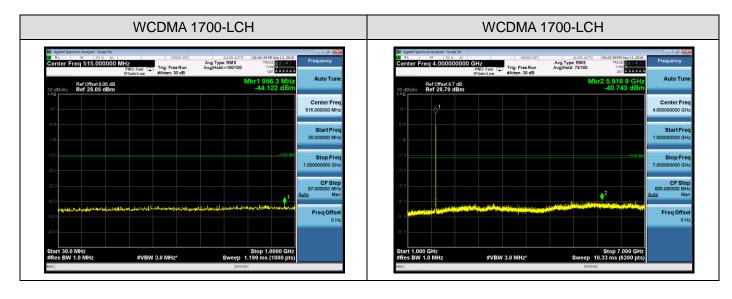


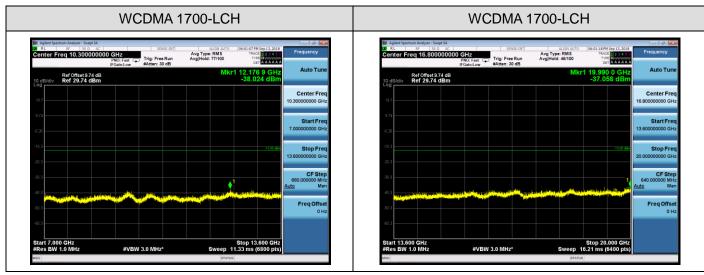






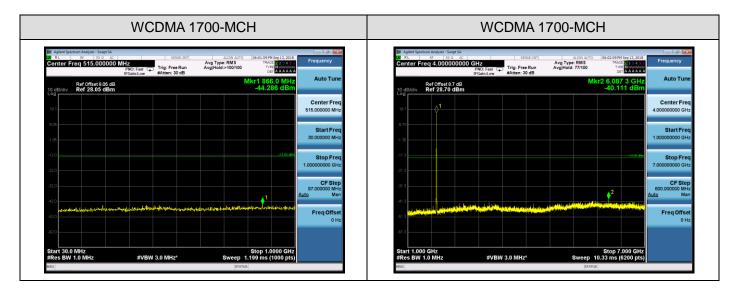
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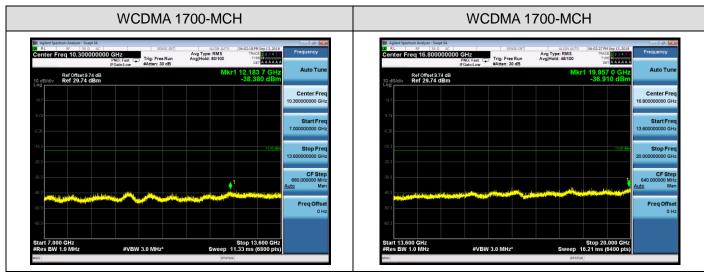






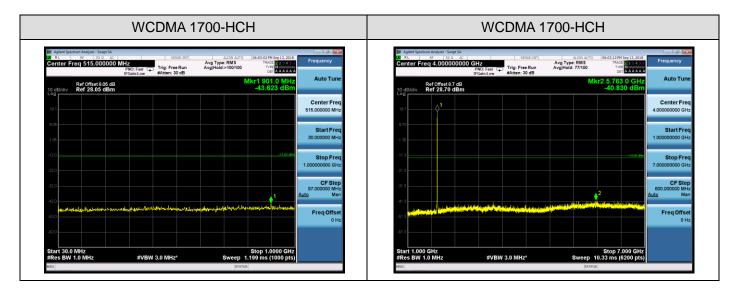
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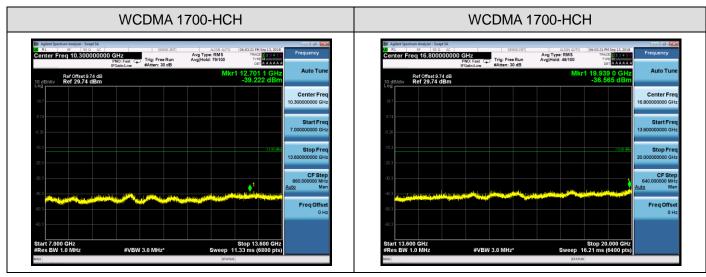






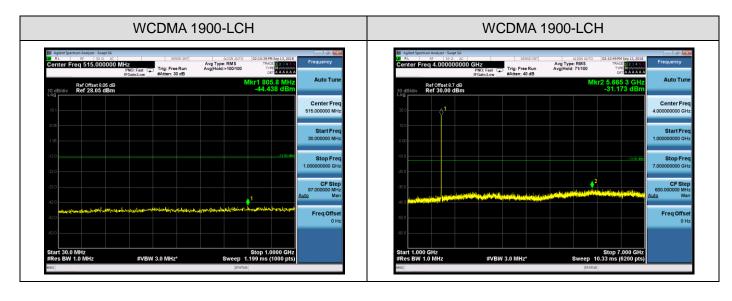
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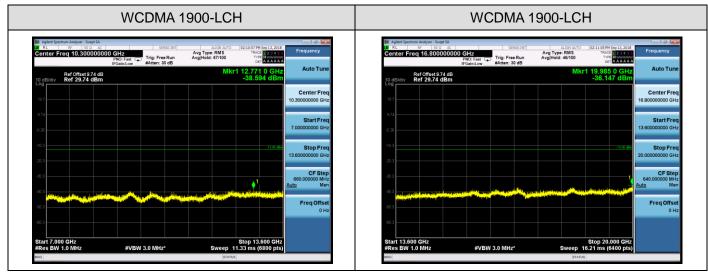






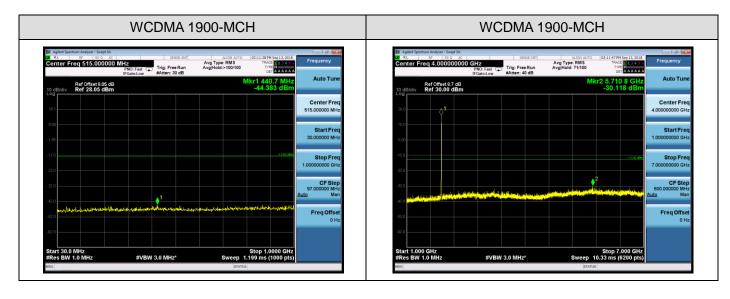
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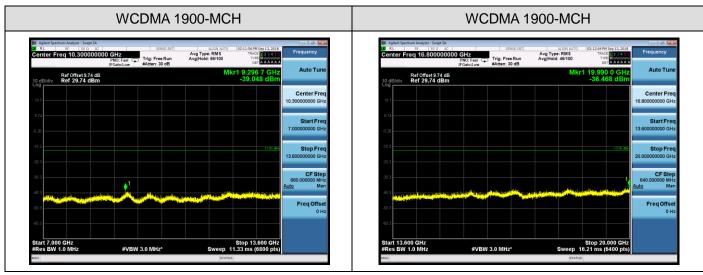






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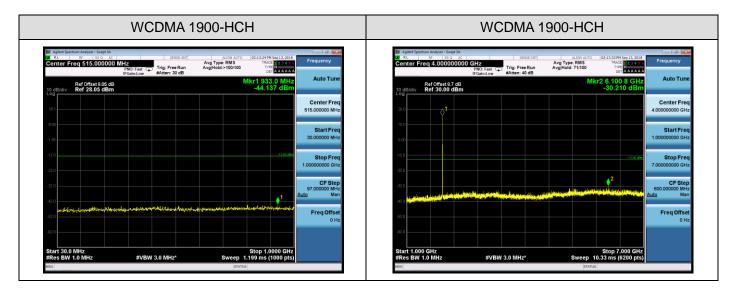


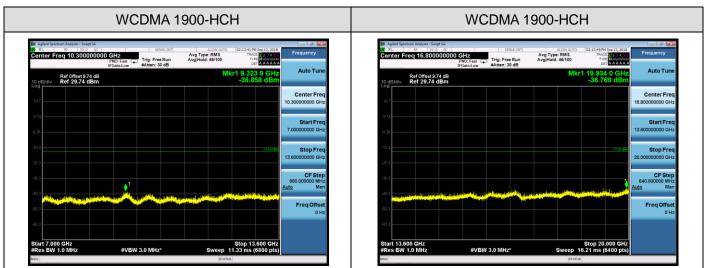






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Note: 1. Below 30MHZ no Spurious found and Above is the worst mode data.

2. As no emission found in standby or receive mode, no recording in this report.

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#### 9.2 RADIATED SPURIOUS EMISSION

#### 9.2.1MEASUREMENT METHOD

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

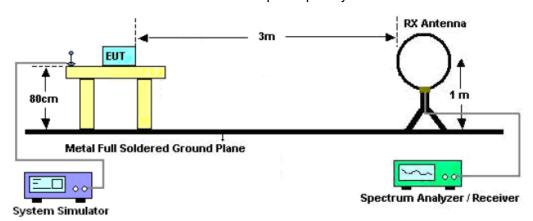
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



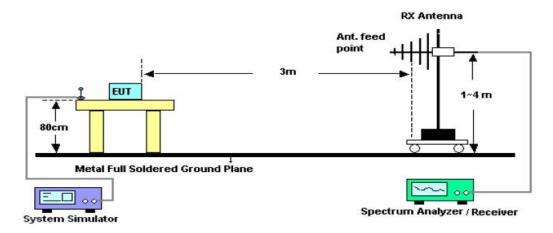
#### 9.2.2 TEST SETUP

### Radiated Emission Test-Setup Frequency Below 30MHz

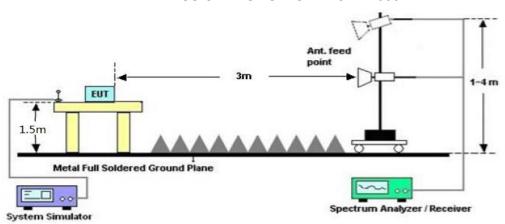
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#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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#### 9.2.3 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

**Note:** only result the worst condition of each test mode:



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## 9.2.4 MEASUREMENT RESULT

# GSM 850:

The Worst Test Results for Channel 251/848.8 MHz								
Frequency	Emission Level	Limits	Margin	Commont				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1967.60	-48.64	-13	-35.64	Horizontal				
3456.47	-32.47	-13	-19.47	Horizontal				
6722.25	-45.66	-13	-32.66	Horizontal				
1967.60	-40.01	-13	-27.01	Vertical				
3399.54	3399.54 -51.09		-38.09	Vertical				
6749.64	-33.10	-13	-20.10	Vertical				

#### **GSM 850(EDGE):**

30M 330(LD3L ).								
The Worst Test Results for Channel 251/848.8 MHz								
Frequency	Emission Level	Limits	Margin	Commont				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1967.60	-51.61	-13	-38.61	Horizontal				
3485.45	-38.92	-13	-25.92	Horizontal				
6799.64	-49.65	-13	-36.65	Horizontal				
1967.60	-36.94	-13	-23.94	Vertical				
3464.47	-50.52	-13	-37.52	Vertical				
6846.25	-31.66	-13	-18.66	Vertical				



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## PCS 1900:

	The Worst Test Results for Channel 810/1909.8MHz								
Frequency	Emission Level	Limits	Margin	Comment					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1847.89	-49.43	-13	-36.43	Horizontal					
3819.60	-35.87	-13	-22.87	Horizontal					
7852.19	-48.19	-13	-35.19	Horizontal					
1845.48	-36.13	-13	-23.13	Vertical					
3819.60	3819.60 -48.69		-35.69	Vertical					
7633.25	-32.71	-13	-19.71	Vertical					

## PCS 1900(EDGE):

1 00 1000(2202 ):								
The Worst Test Results for Channel 810/1909.8MHz								
Frequency	Emission Level	Limits	Margin	Comment				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1852.15	-52.59	-13	-39.59	Horizontal				
3819.60	-39.48	-13	-26.48	Horizontal				
7633.19	-49.67	-13	-36.67	Horizontal				
1897.64	-38.69	-13	-25.69	Vertical				
3819.60	-48.26	-13	-35.26	Vertical				
7631.25	-33.17	-13	-20.17	Vertical				



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#### **HSPA** band II:

	The Worst Test Results for Channel 9538/1907.6MHz								
Frequency	Emission Level	Limits	Margin	Comment					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1872.14	-49.70	-13	-36.70	Horizontal					
3815.20	-34.64	-13	-21.64	Horizontal					
7633.17	-51.42	-13	-38.42	Horizontal					
1815.54	-35.92	-13	-22.92	Vertical					
3815.20	3815.20 -46.85		-33.85	Vertical					
7619.17	-32.21	-13	-19.21	Vertical					

#### **HSPA** band V:

The Worst Test Results for Channel 4233/846.6MHz								
Frequency	Emission Level	Limits	Margin	Commont				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1693.20	-52.34	-13	-39.34	Horizontal				
3315.16	-33.87	-13	-20.87	Horizontal				
6733.97	-48.38	-13	-35.38	Horizontal				
1693.20	-34.75	-13	-21.75	Vertical				
3380.23	-44.80	-13	-31.80	Vertical				
6711.18	-40.78	-13	-27.78	Vertical				

#### **HSPA** band IV:

The Worst Test Results for Channel 8763/1752.6MHz								
Frequency	Emission Level	Limits	Margin	Commont				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1936.86	-49.88	-13	-36.88	Horizontal				
3505.20	-37.45	-13	-24.45	Horizontal				
7859.52	-49.59	-13	-36.59	Horizontal				
1911.15	-38.25	-13	-25.25	Vertical				
3505.20	-48.43	-13	-35.43	Vertical				
7863.42	-34.59	-13	-21.59	Vertical				

**RESULT: PASS** 

Note:

- 1. Margin = Emission Level -Limit
- 2. Below 30MHZ no Spurious found and Above is the worst mode data.



#### 10. FREQUENCY STABILITY

#### **10.1 MEASUREMENT METHOD**

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

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- 1 Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at -10℃.
- 3 With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band, channel 190 for GSM 850 band, channel 9400 for UMTS band II and channel 4175 for UMTS band V measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4 Repeat the above measurements at  $10^{\circ}$ C increments from - $10^{\circ}$ C to + $50^{\circ}$ C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6 Subject the EUT to overnight soak at +50°C.
- With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8 Repeat the above measurements at  $10^{\circ}$ C increments from +50°C to -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- At all temperature levels hold the temperature to  $\pm$ -0.5°C during the measurement procedure.



#### 10.2 PROVISIONS APPLICABLE

#### 10.2.1 FOR HAND CARRIED BATTERY POWERED EQUIPMENT

According to the ANSI/TIA-603-E-2016, the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.4VDC and 4.4VDC, with a nominal voltage of 3.85VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

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#### 10.2.2 FOR EQUIPMENT POWERED BY PRIMARY SUPPLY VOLTAGE

According to the ANSI/TIA-603-E-2016,the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20°C.



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# **10.3 MEASUREMENT RESULT**

Test Results

Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	14.98	0.02	±2.5	PASS
		LCH	TN	VN	18.85	0.02	±2.5	PASS
			TN	VH	16.53	0.02	±2.5	PASS
		GSM MCH	TN	VL	17.18	0.02	±2.5	PASS
GSM850	GSM		TN	VN	19.18	0.02	±2.5	PASS
			TN	VH	20.53	0.02	±2.5	PASS
			TN	VL	19.95	0.02	±2.5	PASS
			TN	VN	20.73	0.02	±2.5	PASS
			TN	VH	18.40	0.02	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	19.34	0.02	±2.5	PASS
		LCH	TN	VN	20.82	0.03	±2.5	PASS
			TN	VH	19.34	0.02	±2.5	PASS
		E MCH	TN	VL	21.28	0.03	±2.5	PASS
GSM850	EDGE		TN	VN	20.08	0.02	±2.5	PASS
			TN	VH	20.47	0.02	±2.5	PASS
			TN	VL	19.63	0.02	±2.5	PASS
		HCH	TN	VN	18.47	0.02	±2.5	PASS
			TN	VH	20.11	0.02	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
			TN	VL	53.40	0.03	±2.5	PASS
		LCH	TN	VN	47.85	0.03	±2.5	PASS
			TN	VH	50.37	0.03	±2.5	PASS
PCS		GSM MCH	TN	VL	51.14	0.03	±2.5	PASS
1900	GSM		TN	VN	53.92	0.03	±2.5	PASS
1900			TN	VH	53.47	0.03	±2.5	PASS
			TN	VL	52.88	0.03	±2.5	PASS
		HCH	TN	VN	47.52	0.02	±2.5	PASS
			TN	VH	49.72	0.03	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
			TN	VL	51.95	0.03	±2.5	PASS
		LCH	TN	VN	54.79	0.03	±2.5	PASS
			TN	VH	51.11	0.03	±2.5	PASS
PCS		EDGE MCH	TN	VL	49.69	0.03	±2.5	PASS
1900	EDGE		TN	VN	50.98	0.03	±2.5	PASS
1900			TN	VH	52.63	0.03	±2.5	PASS
			TN	VL	49.14	0.03	±2.5	PASS
			TN	VN	49.30	0.03	±2.5	PASS
			TN	VH	47.75	0.03	±2.5	PASS



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## **Frequency Error vs. Temperature:**

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vardiet
Band	Mode	Channel	Volt.	Tem. (℃)	(Hz)	(ppm)	(ppm)	Verdict
			VN	-10	19.69	0.02	±2.5	PASS
			VN	0	15.43	0.02	±2.5	PASS
			VN	10	16.14	0.02	±2.5	PASS
GSM850	GSM	LCH	VN	20	19.76	0.02	±2.5	PASS
			VN	30	15.50	0.02	±2.5	PASS
			VN	40	13.17	0.02	±2.5	PASS
			VN	50	16.92	0.02	±2.5	PASS
		м мсн	VN	-10	18.08	0.02	±2.5	PASS
			VN	0	18.47	0.02	±2.5	PASS
			VN	10	17.43	0.02	±2.5	PASS
GSM850	GSM		VN	20	17.69	0.02	±2.5	PASS
			VN	30	20.66	0.02	±2.5	PASS
			VN	40	19.57	0.02	±2.5	PASS
			VN	50	18.02	0.02	±2.5	PASS
			VN	-10	16.53	0.02	±2.5	PASS
			VN	0	20.86	0.02	±2.5	PASS
			VN	10	17.56	0.02	±2.5	PASS
GSM850	GSM	HCH	VN	20	17.31	0.02	±2.5	PASS
			VN	30	22.73	0.03	±2.5	PASS
			VN	40	21.83	0.03	±2.5	PASS
			VN	50	18.08	0.02	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Tem. (℃)	(Hz)	(ppm)	(ppm)	verdict
			VN	-10	29.19	0.04	±2.5	PASS
			VN	0	27.57	0.03	±2.5	PASS
			VN	10	28.41	0.03	±2.5	PASS
GSM850	EDGE	LCH	VN	20	27.96	0.03	±2.5	PASS
			VN	30	26.76	0.03	±2.5	PASS
			VN	40	24.18	0.03	±2.5	PASS
			VN	50	25.02	0.03	±2.5	PASS
		МСН	VN	-10	18.89	0.02	±2.5	PASS
	EDGE		VN	0	18.95	0.02	±2.5	PASS
			VN	10	21.21	0.03	±2.5	PASS
GSM850			VN	20	18.34	0.02	±2.5	PASS
			VN	30	22.34	0.03	±2.5	PASS
			VN	40	22.21	0.03	±2.5	PASS
			VN	50	21.53	0.03	±2.5	PASS
			VN	-10	17.53	0.02	±2.5	PASS
			VN	0	22.08	0.03	±2.5	PASS
			VN	10	19.40	0.02	±2.5	PASS
GSM850	EDGE	нсн	VN	20	19.24	0.02	±2.5	PASS
			VN	30	6.59	0.01	±2.5	PASS
			VN	40	26.47	0.03	±2.5	PASS
			VN	50	21.08	0.02	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit			
Band	Mode	Channel	Volt.	Tem. (°C)	(Hz)	(ppm)	(ppm)	Verdict		
PCS			VN	-10	54.24	0.03	±2.5	PASS		
			VN	0	48.36	0.03	±2.5	PASS		
			VN	10	51.33	0.03	±2.5	PASS		
1900	GSM	LCH	VN	20	49.33	0.03	±2.5	PASS		
1900			VN	30	55.27	0.03	±2.5	PASS		
			VN	40	53.66	0.03	±2.5	PASS		
			VN	50	53.27	0.03	±2.5	PASS		
		мсн	VN	-10	53.34	0.03	±2.5	PASS		
	GSM		VN	0	49.40	0.03	±2.5	PASS		
PCS			VN	10	55.34	0.03	±2.5	PASS		
1900			VN	20	52.04	0.03	±2.5	PASS		
1900			VN	30	50.75	0.03	±2.5	PASS		
			VN	40	48.43	0.03	±2.5	PASS		
			VN	50	52.63	0.03	±2.5	PASS		
					VN	-10	53.72	0.03	±2.5	PASS
			VN	0	52.50	0.03	±2.5	PASS		
PCS			VN	10	51.59	0.03	±2.5	PASS		
1900	GSM	HCH	VN	20	53.98	0.03	±2.5	PASS		
1300			VN	30	53.40	0.03	±2.5	PASS		
			VN	40	54.11	0.03	±2.5	PASS		
			VN	50	52.04	0.03	±2.5	PASS		



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# Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	verdict
			TN	VL	-8.36	-0.01	±2.5	PASS
		LCH	TN	VN	-10.86	-0.01	±2.5	PASS
	UMTS		TN	VH	-10.79	-0.01	±2.5	PASS
		мсн нсн	TN	VL	-12.95	-0.02	±2.5	PASS
WCDMA850			TN	VN	-7.26	-0.01	±2.5	PASS
			TN	VH	-6.64	-0.01	±2.5	PASS
			TN	VL	-8.99	-0.01	±2.5	PASS
			TN	VN	-18.52	-0.02	±2.5	PASS
			TN	VH	-11.17	-0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	\/ordiot
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	-15.35	-0.01	±2.5	PASS
		LCH	TN	VN	-18.60	-0.01	±2.5	PASS
	UMTS		TN	VH	-20.00	-0.01	±2.5	PASS
		TS MCH	TN	VL	-16.25	-0.01	±2.5	PASS
WCDMA1700			TN	VN	-11.15	-0.01	±2.5	PASS
			TN	VH	-21.24	-0.01	±2.5	PASS
			TN	VL	-4.24	0.00	±2.5	PASS
		HCH	TN	VN	-9.05	-0.01	±2.5	PASS
			TN	VH	-9.69	-0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	\/ordiot
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
			TN	VL	-18.36	-0.01	±2.5	PASS
		LCH	TN	VN	-10.76	-0.01	±2.5	PASS
	UMTS		TN	VH	-24.99	-0.01	±2.5	PASS
		MCH HCH	TN	VL	-9.14	0.00	±2.5	PASS
WCDMA1900			TN	VN	-17.46	-0.01	±2.5	PASS
			TN	VH	-18.22	-0.01	±2.5	PASS
			TN	VL	-16.66	-0.01	±2.5	PASS
			TN	VN	-10.53	-0.01	±2.5	PASS
			TN	VH	-11.54	-0.01	±2.5	PASS



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# Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Tem. (℃)	(Hz)	(ppm)	(ppm)	verdict
			VN	-10	-11.14	-0.01	±2.5	PASS
			VN	0	-12.08	-0.01	±2.5	PASS
			VN	10	-11.18	-0.01	±2.5	PASS
WCDMA850	UMTS	LCH	VN	20	-9.26	-0.01	±2.5	PASS
			VN	30	-9.31	-0.01	±2.5	PASS
			VN	40	-8.90	-0.01	±2.5	PASS
			VN	50	-14.13	-0.02	±2.5	PASS
	UMTS		VN	-10	-6.41	-0.01	±2.5	PASS
		MCH	VN	0	-5.45	-0.01	±2.5	PASS
			VN	10	-8.07	-0.01	±2.5	PASS
WCDMA850			VN	20	-10.89	-0.01	±2.5	PASS
			VN	30	-9.52	-0.01	±2.5	PASS
			VN	40	-5.49	-0.01	±2.5	PASS
			VN	50	-10.67	-0.01	±2.5	PASS
			VN	-10	-6.62	-0.01	±2.5	PASS
			VN	0	0.58	0.00	±2.5	PASS
		НСН	VN	10	-16.92	-0.02	±2.5	PASS
WCDMA850	UMTS		VN	20	-6.77	-0.01	±2.5	PASS
			VN	30	-6.16	-0.01	±2.5	PASS
			VN	40	-17.23	-0.02	±2.5	PASS
			VN	50	-10.82	-0.01	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	.,
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	Verdict
			VN	-10	-17.12	-0.01	±2.5	PASS
			VN	0	-10.91	-0.01	±2.5	PASS
			VN	10	-16.45	-0.01	±2.5	PASS
WCDMA1700	UMTS	LCH	VN	20	-7.14	0.00	±2.5	PASS
			VN	30	-16.17	-0.01	±2.5	PASS
			VN	40	-11.05	-0.01	±2.5	PASS
			VN	50	-13.82	-0.01	±2.5	PASS
	UMTS	MCH	VN	-10	-12.50	-0.01	±2.5	PASS
			VN	0	-12.15	-0.01	±2.5	PASS
			VN	10	-16.11	-0.01	±2.5	PASS
WCDMA1700			VN	20	-17.76	-0.01	±2.5	PASS
			VN	30	-15.20	-0.01	±2.5	PASS
			VN	40	-13.73	-0.01	±2.5	PASS
			VN	50	-12.60	-0.01	±2.5	PASS
			VN	-10	-9.55	-0.01	±2.5	PASS
			VN	0	-10.99	-0.01	±2.5	PASS
		S HCH	VN	10	-8.18	0.00	±2.5	PASS
WCDMA1700	UMTS		VN	20	-10.97	-0.01	±2.5	PASS
			VN	30	-9.90	-0.01	±2.5	PASS
			VN	40	-7.97	0.00	±2.5	PASS
			VN	50	-11.02	-0.01	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Mar Park
Band	Mode	Channel	Volt.	Tem. (°C)	(Hz)	(ppm)	(ppm)	Verdict
			VN	-10	-21.16	-0.01	±2.5	PASS
			VN	0	-11.84	-0.01	±2.5	PASS
			VN	10	-18.88	-0.01	±2.5	PASS
WCDMA1900	UMTS	LCH	VN	20	-8.79	0.00	±2.5	PASS
			VN	30	-11.49	-0.01	±2.5	PASS
			VN	40	-19.42	-0.01	±2.5	PASS
			VN	50	-9.98	-0.01	±2.5	PASS
	UMTS		VN	-10	-17.64	-0.01	±2.5	PASS
		MCH	VN	0	-12.82	-0.01	±2.5	PASS
			VN	10	-18.72	-0.01	±2.5	PASS
WCDMA1900			VN	20	-13.82	-0.01	±2.5	PASS
			VN	30	-21.16	-0.01	±2.5	PASS
			VN	40	-10.85	-0.01	±2.5	PASS
			VN	50	-12.74	-0.01	±2.5	PASS
			VN	-10	-15.76	-0.01	±2.5	PASS
		НСН	VN	0	-13.23	-0.01	±2.5	PASS
			VN	10	-13.50	-0.01	±2.5	PASS
WCDMA1900	UMTS		VN	20	-10.44	-0.01	±2.5	PASS
			VN	30	-17.24	-0.01	±2.5	PASS
			VN	40	-12.95	-0.01	±2.5	PASS
			VN	50	-8.65	0.00	±2.5	PASS



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## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

RADIATED SPURIOUS EMISSION



RADIATED SPURIOUS ABOVE 1G EMISSION



----END OF REPORT----