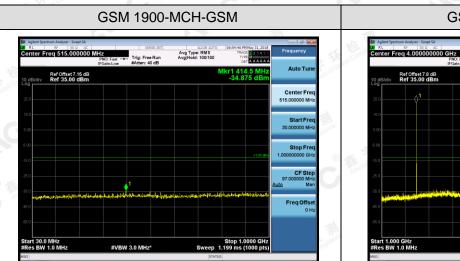
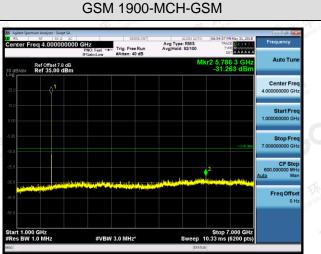
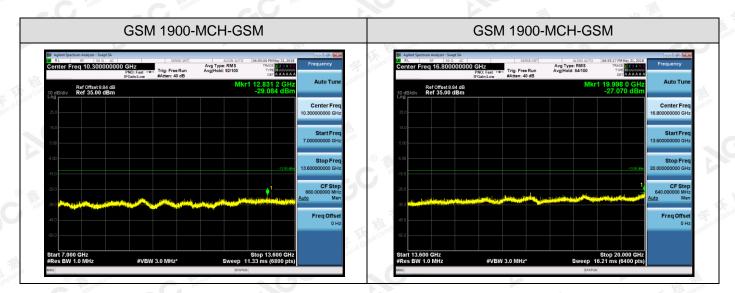
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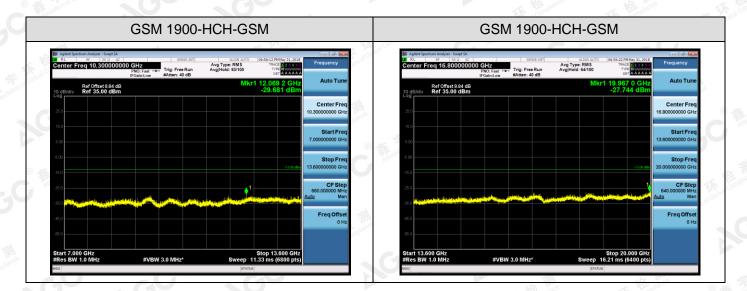




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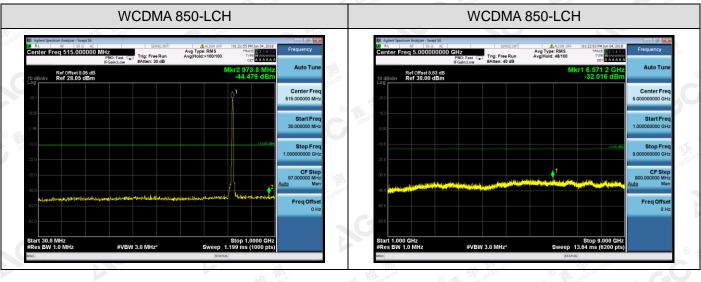


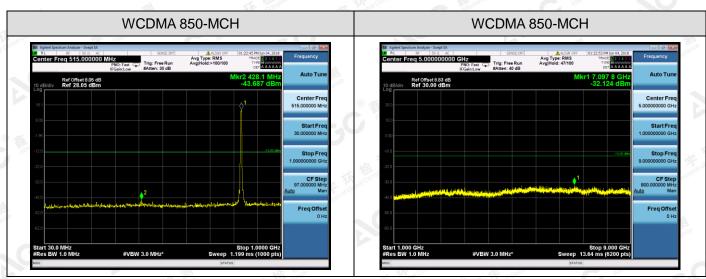


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### Test Band=WCDMA850/WCDMA1900

#### Test Mode=UMTS

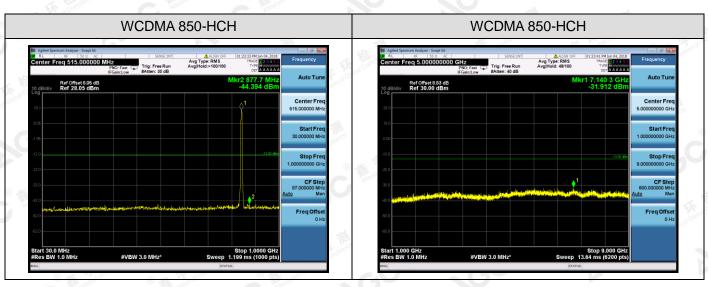


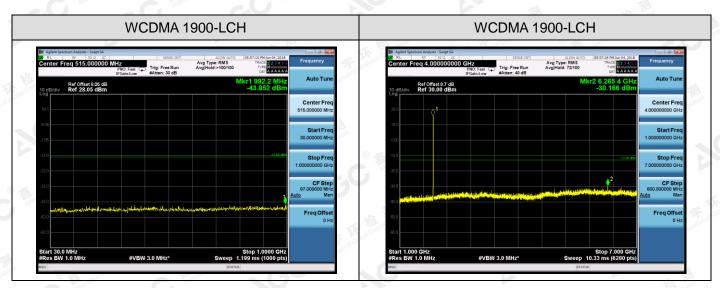


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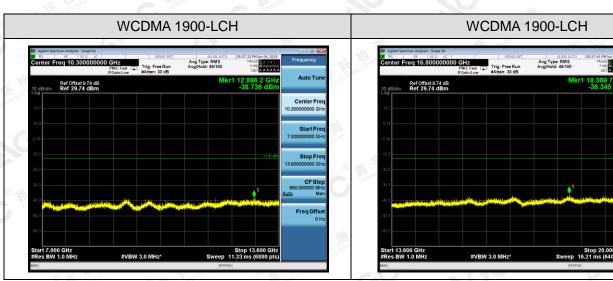
Auto T

Center Fr

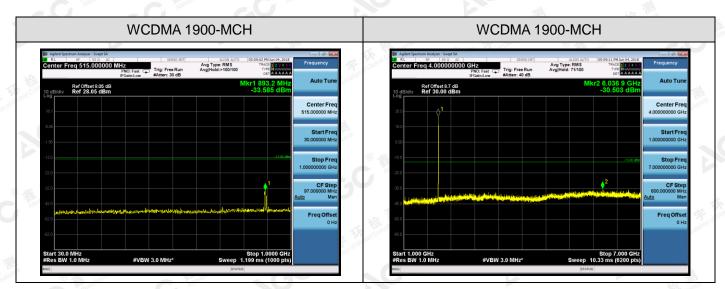
Start F

Stop Fr

CFS



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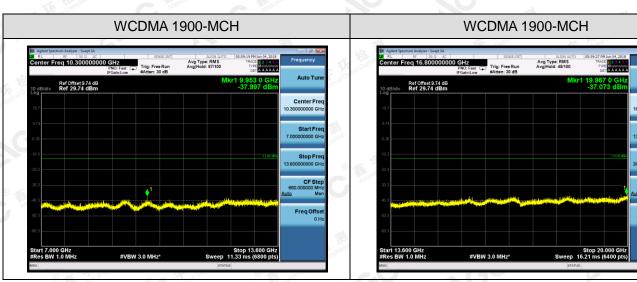
Auto T

Center F

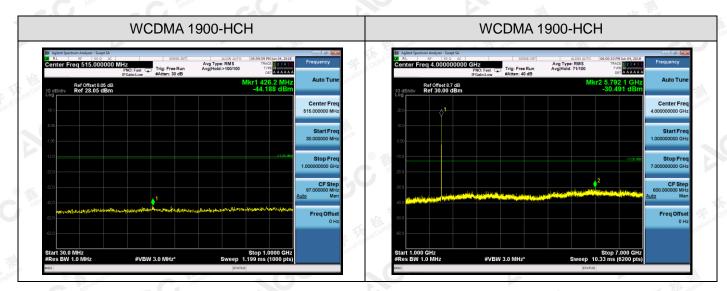
Start F

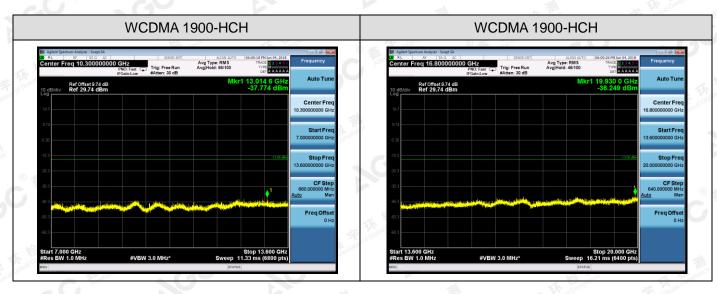
CFS

Freq Offs



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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.

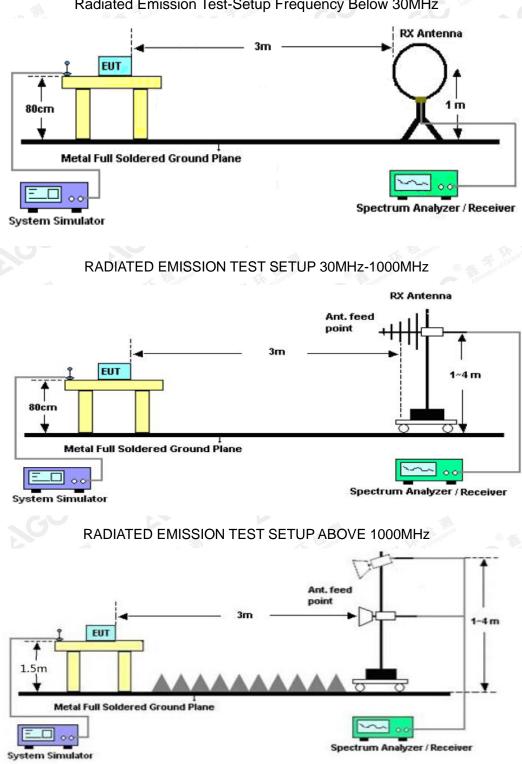
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### 9.2.2 TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

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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 F	Results for Channe	el 251/848.8 MHz		
Frequency	Emission Level	Limits	Margin		
(MHz)	(dBm)	(dBm)	(dB)	Comment	
1697.60	-48.45	-13	-35.45	Horizontal	
3210.60	-35.11	-13	-22.11	Horizontal	
6215.19	-26.06	-13	-13.06	Horizontal	
1697.60	-48.33	-13	-35.33	Vertical	
3395.64	-37.12	-13	-24.12	Vertical	
6744.15	-28.30	-13	-15.30	Vertical	
				- Alia	

### PCS 1900:

	The Worst Test Results for Channel 810/1909.8MHz									
Frequency	Emission Level	Limits	Margin	Commont						
(MHz)	(dBm)	(dBm)	(dB)	- Comment						
1856.59	-48.13	-13	-35.13	Horizontal						
3819.60	-33.49	-13	-20.49	Horizontal						
7564.15	-27.31	-13	-14.31	Horizontal						
1864.43	-48.11	-13	-35.11	Vertical						
3819.60	-36.12	-13	-23.12	Vertical						
7694.44	-28.00	-13	-15.00	Vertical						

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	The Worst Test Re	esults for Channel 9	538/1907.6MHz	
Frequency	Emission Level	Limits	Margin	Commont
(MHz)	(dBm)	(dBm)	(dB)	- Comment
1954.51	-47.01	-13	-34.01	Horizontal
3815.20	-35.15	-13	-22.15	Horizontal
7300.15	-28.19	-13	-15.19	Horizontal
1766.41	-48.05	-13	-35.05	Vertical
3815.20	-36.19	-13	-23.19	Vertical
7879.15	-27.36	-13	-14.36	Vertical

### HSPA band II:

### HSPA band V:

The Worst Test Results for Channel 4233/846.6MHz									
Emission Level	Limits	Margin	Commont						
(dBm)	(dBm)	(dB)	- Comment						
-48.95	-13	-35.95	Horizontal						
-34.09	-13	-21.09	Horizontal						
-27.11	-13	-14.11	Horizontal						
-48.21	-13	-35.21	Vertical						
-36.59	-13	-23.59	Vertical						
-27.18	-13	-14.18	Vertical						
	Emission Level   (dBm)   -48.95   -34.09   -27.11   -48.21   -36.59	Emission Level   Limits     (dBm)   (dBm)     -48.95   -13     -34.09   -13     -27.11   -13     -48.21   -13     -36.59   -13	Emission LevelLimitsMargin(dBm)(dBm)(dB)-48.95-13-35.95-34.09-13-21.09-27.11-13-14.11-48.21-13-35.21-36.59-13-23.59						

### **RESULT: PASS**

### Note:

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

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### **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.

- 1 Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at  $-10^{\circ}$ C.

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  $+55^{\circ}$ 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  $+55^{\circ}$ C.

7 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 +55°C to -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

9 At all temperature levels hold the temperature to +/-  $0.5^{\circ}$ C during the measurement procedure.

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### 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 4.2VDC, with a nominal voltage of 3.7VDC. 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.

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

According to the ANSI/TIA-603-D-2010, 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	Verdiet
Band	Band Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
9	-1111	10-	TN	VL	-2.97	0.00	±2.5	PASS
	plance	LCH	TN	VN	2.13	0.00	±2.5	PASS
3 Attestation of Glou	C The state	of Global	CTN	VH	2.13	0.00	±2.5	PASS
0	G		TN	VL	6.72	0.01	±2.5	PASS
GSM850	GSM	MCH	TN	VN	12.40	0.01	±2.5	PASS
® <i>1</i> 54	Finot Global Comp.	oba Comp	TN 🛛 🐔	VH	2.84	0.00	±2.5	PASS
CC The	G	Allestatio	TN	VL	6.07	0.01	±2.5	PASS
		нсн	TN	VN	5.23	0.01	±2.5	PASS
		an l	TN	VH	5.62	0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
		the particular	TN	VL	-17.11	-0.01	±2.5	PASS
	© 🐔	LCH	TN	VN	-10.78	-0.01	±2.5	PASS
	C Tor		TN	VH	-2.39	0.00	±2.5	PASS
DOO			ΤN	VL	0.19	0.00	±2.5	PASS
PCS	GSM	MCH	TN	VN	0.45	0.00	±2.5	PASS
1900	astruon of Global C	C Attestation of	TN	VH	-1.61	0.00	±2.5	PASS
	C		TN	VL	-8.65	0.00	±2.5	PASS
		НСН	TN	VN	-6.39	0.00	±2.5	PASS
	0 # F	of Clobal Complian	TN	VH	-7.30	0.00	±2.5	PASS

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### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordiat
Band	Mode	Channel	Volt.	<b>Tem. (°</b> C)	(Hz)	(ppm)	(ppm)	Verdict
Jobal Contr	For Global Comple	G	VN	-10	6.97	0.01	±2.5	PASS
	tone		VN	0	5.29	0.01	±2.5	PASS
	lar-	-111	VN	10	0.71	0.00	±2.5	PASS
GSM850	GSM	LCH	VN	20	1.74	0.00	±2.5	PASS
	C Thestand	of Globe	<b>VN</b>	30	3.10	0.00	±2.5	PASS
	0	E C	VN	40	1.03	0.00	±2.5	PASS
	臣书	A	VN	50	4.39	0.01	±2.5	PASS
© ##	For of Global Con	R F Jol Glob	VN ©	-10	1.55	0.00	±2.5	PASS
	-	Atlestation	VN	0	10.65	0.01	±2.5	PASS
	NO.		VN	10	13.17	0.02	±2.5	PASS
GSM850	GSM	MCH	VN	20	2.26	0.00	±2.5	PASS
	The The state	lance ®	VN	30	2.84	0.00	±2.5	PASS
	estation of Giv	S	VN	40	2.97	0.00	±2.5	PASS
			VN	50	4.52	0.01	±2.5	PASS
ALL A	1	the manage	VN	-10	8.59	0.01	±2.5	PASS
	© 🐔	tion of Global Coll	VN	0	6.65	0.01	±2.5	PASS
	C Part		VN	10	4.78	0.01	±2.5	PASS
GSM850	GSM	нсн	VN	20	5.94	0.01	±2.5	PASS
	The Complian	4.8	VN	30	2.71	0.00	±2.5	PASS
	ton of Glober	C Attestation of	VN	40	3.10	0.00	±2.5	PASS
	C		VN	50	5.10	0.01	±2.5	PASS

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S.V. Co.		Aur		Nep.		Alter-	lin	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	<b>Tem. (</b> ℃)	(Hz)	(ppm)	(ppm)	
	""	, ®	VN	-10	-8.85	0.00	±2.5	PASS
	F not Global Compile	C.C	VN	0	-12.72	-0.01	±2.5	PASS
PCS	2100		VN	10	-11.24	-0.01	±2.5	PASS
1900	GSM	LCH	VN	20	-15.63	-0.01	±2.5	PASS
1900	plance	The Compliance	VN	30	-14.59	-0.01	±2.5	PASS
	C Statestato	of Globe	VN	40	-17.18	-0.01	±2.5	PASS
	0	F	VN	50	-13.62	-0.01	±2.5	PASS
	杨节	000	VN	-10	-1.74	0.00	±2.5	PASS
	Find Global Coll.	C The stand	VN ©	0	-5.81	0.00	±2.5	PASS
PCS	-	Allestallo	VN	10	4.13	0.00	±2.5	PASS
1900	GSM	MCH	VN	20	2.07	0.00	±2.5	PASS
1900			VN	30	6.84	0.00	±2.5	PASS
	The The tal	clands ®	VN	40	-7.23	0.00	±2.5	PASS
	estation of G	S	VN	50	-8.52	0.00	±2.5	PASS
S			VN	-10	-5.04	0.00	±2.5	PASS
	ance	The the Fill	VN	<b>3</b> 0	-3.62	0.00	±2.5	PASS
PCS GSM	® 5	Global Co	VN	10	0.77	0.00	±2.5	PASS
	GSM	1 НСН	VN	20	-6.01	0.00	±2.5	PASS
1900	-		VN	30	2.32	0.00	±2.5	PASS
	The tampian		VN	40	-1.87	0.00	±2.5	PASS
	tion of Glou	C Attestation of	VN	50	2.13	0.00	±2.5	PASS

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### Frequency Error vs. Voltage:

1. NO2		-				ALM CO.	Cho Long	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdici
Stobal Contre	Global Compar	GO	TN	VL	-0.02	0.00	±2.5	PASS
C Hussel		LCH	TN	VN	-0.69	0.00	±2.5	PASS
C all		lin-	TN	VH	-0.90	0.00	±2.5	PASS
The tal Computant	J	Compliance	TN	VL	-3.05	0.00	±2.5	PASS
WCDMA850	UMTS	МСН	TN	VN	-2.27	0.00	±2.5	PASS
6			TN	VH	2.62	0.00	±2.5	PASS
	T HE MAN	1	TN	VL	-4.17	0.00	±2.5	PASS
· · · ·	of Global Contr	НСН	TN	VN	-1.82	0.00	±2.5	PASS
CC Press	-C	Attestation	TN	VH	-1.42	0.00	±2.5	PASS
						- TEL Manus	Sh comp	0 4

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordiat
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
Contraction Contraction		G	TN	) VL	-1.39	0.00	±2.5	PASS
SO		LCH	ΤN	VN	-4.01	0.00	±2.5	PASS
A A		K Harmannes	ΤN	VH	-0.75	0.00	±2.5	PASS
The stopal compile	C The sales of	Global Cu	TN	VL	-8.58	0.00	±2.5	PASS
WCDMA1900	UMTS	МСН	ΤN	VN	-6.29	0.00	±2.5	PASS
	1117:		ΤN	VH	2.15	0.00	±2.5	PASS
The second se	Al Compliance	The should	ΤN	VL	-6.27	0.00	±2.5	PASS
© The sale of O	or C	НСН	TN	VN	-6.38	0.00	±2.5	PASS
GO	S		ΤN	VH	-3.31	0.00	±2.5	PASS

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### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	) (a selie t
Band	Mode	Channel	Volt.	<b>Tem. (°</b> ℃)	(Hz)	(ppm)	(ppm)	Verdict
Clobal Contr	Global Comp	c.C	VN	-10	-5.26	-0.01	±2.5	PASS
Attestation			VN	0	-0.92	0.00	±2.5	PASS
<b>O</b>		107-	VN	10	-3.71	0.00	±2.5	PASS
WCDMA850	UMTS	LCH	VN	20	0.81	0.00	±2.5	PASS
	8 Thestation of C	ober	VN	30	-0.70	0.00	±2.5	PASS
			VN	40	0.09	0.00	±2.5	PASS
	· 按 · m	A.	VN	50	-1.59	0.00	±2.5	PASS
8 5 T	of Global Cu.	Front Global	VN	-10	0.06	0.00	±2.5	PASS
	e.C	Nilestatio	VN	0	-4.44	-0.01	±2.5	PASS
	0		VN	10	-0.53	0.00	±2.5	PASS
WCDMA850	UMTS	MCH	VN	20	-2.61	0.00	±2.5	PASS
	The tel complian	° f	VN	30	1.14	0.00	±2.5	PASS
	on of G	GO	VN	40	-4.00	0.00	±2.5	PASS
			VN	50	0.87	0.00	±2.5	PASS
The second se		The Hanguarde	VN	-10	-0.12	0.00	±2.5	PASS
	© 5. 40	of Global CO	VN	0	-1.92	0.00	±2.5	PASS
	C Allest		VN	10	-1.85	0.00	±2.5	PASS
WCDMA850	UMTS	НСН	VN	20	-5.72	-0.01	±2.5	PASS
	The Compliance	The star	VN	30	-0.44	0.00	±2.5	PASS
	Glope.	C Attestation of C	VN	40	-0.15	0.00	±2.5	PASS
GU	S		VN	50	2.18	0.00	±2.5	PASS

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	<b>Tem. (</b> ℃)	(Hz)	(ppm)	(ppm)	
The Harmonics	HEL Marco	© 🐐	VN	-10	1.19	0.00	±2.5	PASS
Global Con	abal Come	GO "	VN	0	-15.98	-0.01	±2.5	PASS
A C Mesan			VN	10 🐋	3.19	0.00	±2.5	PASS
WCDMA1900	UMTS	LCH	VN	20	0.38	0.00	±2.5	PASS
	Th	Compliance	VN	30	3.63	0.00	±2.5	PASS
	Thestation of Gio		VN	40	3.22	0.00	±2.5	PASS
	С.		VN	50	-11.81	-0.01	±2.5	PASS
	the mance	下	VN	-10	1.68	0.00	±2.5	PASS
	Biobal Conn	Front Global Con	VN	0	3.16	0.00	±2.5	PASS
	c.C	Attestation	VN	10	1.86	0.00	±2.5	PASS
WCDMA1900	UMTS	МСН	VN	20	-6.24	0.00	±2.5	PASS
	- 10		VN	30	-0.32	0.00	±2.5	PASS
	The tal compliance	C Atte	VN	40	-1.14	0.00	±2.5	PASS
	51 G.	GO	VN	50	-2.38	0.00	±2.5	PASS
S			VN	-10	-3.10	0.00	±2.5	PASS
		the the monore	VN	0	-0.85	0.00	±2.5	PASS
	B The store	Biobal Con	VN	10	-2.40	0.00	±2.5	PASS
WCDMA1900	UMTS	НСН	VN	20	-5.95	0.00	±2.5	PASS
	-111		VN	30	-8.87	0.00	±2.5	PASS
	Compliance	The start	VN	40	-3.17	0.00	±2.5	PASS
	00	B Attestation of C	VN	50	-6.04	0.00	±2.5	PASS
		1		1		4	1	Oll-

鑫 宇 环 检 测 Attestation of Global Compliance

GC

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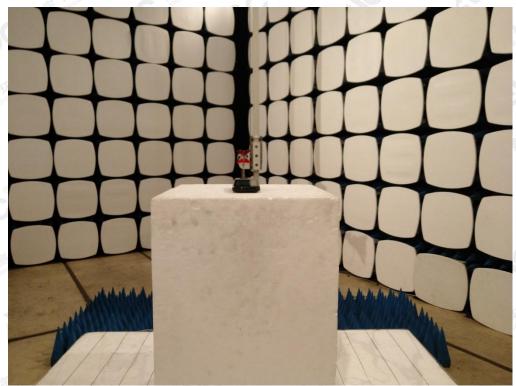




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APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED SPURIOUS EMISSION

RADIATED SPURIOUS ABOVE 1G EMISSION



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### CONDUCTED MEASUREMENTS

----END OF REPORT----

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