# AGC<sup>®</sup>鑫 宇 环 检 测 Attestation of Global Compliance

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# Test Band=WCDMA850/WCDMA1700/WCDMA 1900

### Test Mode=UMTS



# WCDMA 850-MCH





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#VBW 3.0 MHz

rt 30.0 MHz s BW 1.0 MH;





Stop Fr 000000 G CF St

Freq Offs

Stop 1.0000 GF Sweep 1.199 ms (1000 p





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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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System Simulator

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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(1GHz-9GHz)									
Frequency	Emission Level	Limits	Margin	Comment					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1696.47	-47.27	-13	-34.27	Horizontal					
2358.69	-34.48	-13	-21.48	Horizontal					
3746.46	-37.00	-13	-24.00	Horizontal					
1696.47	-48.10	-13	-35.10	Vertical					
2358.69	-36.23	-13	-23.23	Vertical					
3746.46	-37.13	-13	-24.13	Vertical					
	Alle								

### PCS 1900:

The Worst Test Results for Channel 810/1909.8MHz(1GHz-20GHz)									
Frequency	Emission Level	Limits	Margin	Commont					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1837.33	-47.34	-13	-34.34	Horizontal					
3842.46	-34.52	-13	-21.52	Horizontal					
7652.49	-37.07	-13	-24.07	Horizontal					
1769.54	-48.14	-13	-35.14	Vertical					
3821.38	-36.22	-13	-23.22	Vertical					
7655.57	-37.17	-13	-24.17	Vertical					

### **HSPA** band V:

		(Q) Iter (Q)								
The Worst Test Results for Channel 4233/846.6MHz(1GHz-9GHz)										
Emission Level	Limits	Margin	Comment							
(dBm)	(dBm)	(dB)	Comment							
-47.58	-13 🛛 🐔	-34.58	Horizontal							
-34.45	-13	-21.45	Horizontal							
-37.70	-13	-24.70	Horizontal							
-48.51	-13	-35.51	Vertical							
-36.19	-13	-23.19	Vertical							
-37.34	<b>G</b> -13	-24.34	Vertical							
	The Worst Test Results   Emission Level (dBm)   (dBm) -47.58   -34.45 -37.70   -48.51 -36.19   -37.34 -37.34	The Worst Test Results for Channel 4233/4   Emission Level Limits   (dBm) (dBm)   -47.58 -13   -34.45 -13   -37.70 -13   -48.51 -13   -36.19 -13   -37.34 -13	The Worst Test Results for Channel 4233/846.6MHz(1GHz-9GHz   Emission Level Limits Margin   (dBm) (dBm) (dB)   -47.58 -13 -34.58   -34.45 -13 -21.45   -37.70 -13 -24.70   -48.51 -13 -35.51   -36.19 -13 -23.19   -37.34 -13 -24.34							



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### **HSPA** band IV:

The Worst Test Results for Channel 810/1909.8MHz(1GHZ-20GHz)									
Frequency	Emission Level	Limits	Margin	Commont					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1947.56	-47.80	-13	-34.80	Horizontal					
3244.69	-34.82	-13	-21.82	Horizontal					
7499.41	-37.78	-13	-24.78	Horizontal					
1697.15	-48.64	-13	-35.64	Vertical					
3545.56	-36.26	-13	-23.26	Vertical					
7511.42	-37.48	-13	-24.48	Vertical					
Globa	a ball	3							

### HSPA band II:

The Worst Test Results for Channel 9538/1907.6MHz(1GHz-20GHz)									
Frequency	Emission Level	Limits	Margin	Commont					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1870.51	-47.90	-13	-34.90	Horizontal					
3746.15	-34.74	-13	-21.74	Horizontal					
7526.42	-37.82	-13	-24.82	Horizontal					
1880.55	-48.70	-13	-35.70	Vertical					
3696.49	-36.29	-13	-23.29	Vertical					
7611.53	-37.32	· -13	-24.32	Vertical					
210 0000	and the second sec	A MIRS							

### RESULT: PASS Note:

- 1. Margin = Emission Leve -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 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.

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  $+50^{\circ}$ 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  $+50^{\circ}$ C to  $-10^{\circ}$ 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 °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 4.35VDC, with a nominal voltage of 3.8VDC. 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-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	Vordiat
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	verdict
0	-101	-1117	TN	VL	1.03	0.00	±2.5	PASS
环境	pilance	LCH	TN	VN	0.71	0.00	±2.5	PASS
Attestation of Gloc	C Thestation	of Globla	TN	VH	0.45	0.00	±2.5	PASS
- C	~ CO ~		TN	VL	2.78	0.00	±2.5	PASS
GSM850	GSM	MCH	TN	VN	0.39	0.00	±2.5	PASS
8 <i>1</i>	F. Clobal Com	Co the off of oto	TN	VH	4.91	0.01	±2.5	PASS
CC The		Allestatio	TN	VL	1.49	0.00	±2.5	PASS
0	NO.	НСН	TN	VN	3.42	0.00	±2.5	PASS
115-		All a	TN	VH 🖉	4.26	0.01	±2.5	PASS

1 . CO.	C100-		Alle					111117
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	verdict
	M.	the the second	TN	VL	2.71	0.00	±2.5	PASS
T AGobal Comp	© 🐔 '	LCH	TN	VN	1.49	0.00	±2.5	PASS
Attestation	C <sup>200</sup>		TN	VH	1.03	0.00	±2.5	PASS
			TN	VL	3.75	0.00	±2.5	PASS
GSM850	EDGE	MCH	TN	VN	5.68	0.01	±2.5	PASS
· · · · · · · · · · · · · · · · · · ·	tion of Globa	C Attestation of	TN	VH	2.78	0.00	±2.5	PASS
GO	C		TN	VL	4.13	0.00	±2.5	PASS
		HCH	TN	VN	2.39	0.00	±2.5	PASS
THE Marce	0 - 7	of Global Compile	TN	VH	2.45	0.00	±2.5	PASS



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	Part 1	Alle			1112-	line	
Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
A.	, ®	TN	VL	3.62	0.00	±2.5	PASS
F of Global Company	LCH	TN	VN	3.87	0.00	±2.5	PASS
90),		TN	VH	7.49	0.00	±2.5	PASS
	ммсн	TN	VL	7.36	0.00	±2.5	PASS
GSM		TN	VN	4.58	0.00	±2.5	PASS
C Thestation		TN	VH	4.58	0.00	±2.5	PASS
		TN	VL	4.20	0.00	±2.5	PASS
杨书	НСН	TN	VN	2.32	0.00	±2.5	PASS
F of Global Conv	C The Fred Coold	TN ©	VH	6.59	0.00	±2.5	PASS
	Test Mode GSM	TestTestModeChannelLCHGSMMCHHCH	Test Test Test   Mode Channel Temp.   LCH TN TN   GSM MCH TN   MCH TN TN   HCH TN TN   TN TN TN   MCH TN TN   TN TN TN   TN TN TN	TestTestTestModeChannelTemp.Volt. (V)ChannelTemp.Volt. (V)TNVLTNVLTNVHTNVHGSMMCHTNVLTNVHTNVHTNVLTNVHHCHTNVLTNVLTNVHTNVHTNVHTNVLTNVHTNVLTNVHTNVNTNVH	$\begin{array}{c c c c c c } \hline Test & Test & Test & Freq.Error \\ \hline Mode & Channel & Temp. & Volt. (V) & (Hz) \\ \hline Temp. & Volt. (V) & (Hz) \\ \hline TN & VL & 3.62 \\ \hline TN & VN & 3.87 \\ \hline TN & VH & 7.49 \\ \hline TN & VH & 7.49 \\ \hline TN & VL & 7.36 \\ \hline TN & VL & 7.36 \\ \hline TN & VN & 4.58 \\ \hline TN & VH & 4.58 \\ \hline TN & VH & 4.58 \\ \hline TN & VL & 4.20 \\ \hline TN & VN & 2.32 \\ \hline TN & VH & 6.59 \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
Compliance	The The acom	and C	TN	VL	3.55	0.00	±2.5	PASS
oloni (G A	loar Contraction of Contraction	LCH	TN	<b>VN</b>	0.06	0.00	±2.5	PASS
G			TN	VH	4.20	0.00	±2.5	PASS
DCC	A succe	The the Full	TN	VL	1.94	0.00	±2.5	PASS
1000	EDGE	MCH	TN	VN	5.29	0.00	±2.5	PASS
1900	C Me		TN	VH	4.20	0.00	±2.5	PASS
			ΤN	VL 🔬	-0.77	-0.00	±2.5	PASS
	The Compliance	HCH	TN	VN	2.20	0.00	±2.5	PASS
0	ton of Glove	B Attestation of	TN	VH	0.65	0.00	±2.5	PASS



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### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vardiat
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	verdict
Global Contr	F of Global Comp	C.C	VN	-10	1.94	0.00	±2.5	PASS
C Allest	1011 -		VN	0	-0.71	-0.00	±2.5	PASS
Ge			VN	10	0.26	0.00	±2.5	PASS
GSM850	GSM	LCH	VN	20	1.42	0.00	±2.5	PASS
B Attestation of Glut	C Statestall	of Globa	VN	30	0.77	0.00	±2.5	PASS
· . C	G		VN	40	1.87	0.00	±2.5	PASS
	臣	nce.	VN	50	-0.84	-0.00	±2.5	PASS
(R) JE	For of Global Count	MCH	VN	-10	-0.90	-0.00	±2.5	PASS
CO M	gar.		VN	0	0.71	0.00	±2.5	PASS
	NO		VN	10	4.97	0.01	±2.5	PASS
GSM850	GSM		VN	20	4.91	0.01	±2.5	PASS
Compliance	The The state		VN	30	2.58	0.00	±2.5	PASS
oba e a	testation of G		VN	40	3.55	0.00	±2.5	PASS
SO			VN	50	2.78	0.00	±2.5	PASS
15	All anos	The the manance	VN	-10	4.33	0.01	±2.5	PASS
F of Giobal Comp	® 🀔	ation of Global Con	VN	0	2.00	0.00	±2.5	PASS
Allestation	-C Aus		VN	10	4.00	0.00	±2.5	PASS
GSM850 GSI	GSM	SSM HCH	VN	20	3.42	0.00	±2.5	PASS
	The Complian		VN	30	2.39	0.00	±2.5	PASS
	tion of Globe		VN	40	2.65	0.00	±2.5	PASS
GU			VN	50	2.07	0.00	±2.5	PASS



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3. Com		Put -		Attes		liter-	Inc	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vardiat
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	verdict
「「「	AL TH	je C	VN	-10	-1.61	-0.00	±2.5	PASS
	F of Gobal Compile	C.C	VN	0	-4.91	-0.01	±2.5	PASS
	lion,		VN	10	-6.46	-0.01	±2.5	PASS
GSM850	EDGE	LCH	VN	20	-6.20	-0.01	±2.5	PASS
	plance	The Compliance	VN	30	-3.55	-0.00	±2.5	PASS
	C Thestatio	of Globas	VN	40	-3.62	-0.00	±2.5	PASS
	G		VN	50	-3.81	-0.00	±2.5	PASS
in the second seco	梅	MCH	VN	-10	-3.36	-0.00	±2.5	PASS
	Find Global Contr		VN	0	-3.75	-0.00	±2.5	PASS
			VN	10	5.55	0.01	±2.5	PASS
GSM850	EDGE		VN	20	0.45	0.00	±2.5	PASS
			VN	30	-0.90	-0.00	±2.5	PASS
	The The tal		VN	40	-2.65	-0.00	±2.5	PASS
	testation of O	S	VN	50	-2.32	-0.00	±2.5	PASS
S			VN	-10	-2.13	-0.00	±2.5	PASS
	MA.	The the parts	VN	0	1.03	0.00	±2.5	PASS
	© 🐔	alon of Gobal Co.	VN	10	-2.26	-0.00	±2.5	PASS
GSM850	EDGE	нсн	VN	20	-2.58	-0.00	±2.5	PASS
	-		VN	30	-1.87	-0.00	±2.5	PASS
	The Manual		VN	40	-1.49	-0.00	±2.5	PASS
	tion of Glou	C Attestation C	VN	50	-4.97	-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
THE AND	The state	8	VN	-10	5.42	0.00	±2.5	PASS
Soba Compa	F of Global Complete	C.C	VN	0	8.01	0.00	±2.5	PASS
DOO	21011-		VN	10	3.75 🔬	0.00	±2.5	PASS
1000	GSM	LCH	VN	20	7.81	0.00	±2.5	PASS
1900	pliance	The the molence	VN	30	5.75	0.00	±2.5	PASS
	· Frestation	of Globa	<b>VN</b>	40	5.68	0.00	±2.5	PASS
	G		VN	50	5.04	0.00	±2.5	PASS
	THE T	(°	VN	-10	4.91	0.00	±2.5	PASS
	Finor Global Conv	Con the strate	VN ©	0	5.81	0.00	±2.5	PASS
CTOO NO		мсн	VN	10	5.36	0.00	±2.5	PASS
PCS	GSM		VN	20	4.52	0.00	±2.5	PASS
1900			VN	30	3.87	0.00	±2.5	PASS
	The The Com		VN	40	4.33	0.00	±2.5	PASS
	estation of Giv	<u> </u>	VN	50	5.10	0.00	±2.5	PASS
S			VN	-10	6.65	0.00	±2.5	PASS
	A Cos	The Harmoniance	VN	0	4.97	0.00	±2.5	PASS
The loss	© 5.	tion of Global Con	VN	10	5.23	0.00	±2.5	PASS
PCS	GSM	нсн	VN	20	4.20	0.00	±2.5	PASS
1900			VN	30	5.23	0.00	±2.5	PASS
	The Compliant		VN	40	0.65	0.00	±2.5	PASS
	tion of Glove	C Allestation of	VN	50	6.07	0.00	±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
PCS 1900	ALL ALL	, ®	VN	-10	2.00	0.00	±2.5	PASS
	F IGlobal Compilar	c.C	VN	0	-2.58	-0.00	±2.5	PASS
	101		VN	10	-4.78	-0.00	±2.5	PASS
	EDGE	LCH	VN	20	4.46	0.00	±2.5	PASS
1900	plance	The tomplance	VN	30	-2.20	-0.00	±2.5	PASS
	C Thestation	of Globa	<b>VN</b>	40	-1.49	-0.00	±2.5	PASS
	0		VN	50	0.84	0.00	±2.5	PASS
	本を	мсн	VN	-10	-2.26	-0.00	±2.5	PASS
	allon of Global Collin		VN ©	0	0.90	0.00	±2.5	PASS
DOO			VN	10	4.13	0.00	±2.5	PASS
1000	EDGE		VN	20	0.84	0.00	±2.5	PASS
1900			VN	30	-1.10	-0.00	±2.5	PASS
	The The Man	iance ©	VN	40	-3.42	-0.00	±2.5	PASS
	estation of G	S	VN	50	-6.13	-0.00	±2.5	PASS
S			VN	-10	1.74	0.00	±2.5	PASS
	Ance .	нсн	VN	0	-1.87	-0.00	±2.5	PASS
DCC	© 🐔		VN	10	2.71	0.00	±2.5	PASS
1000	EDGE		VN	20	-4.13	-0.00	±2.5	PASS
1900	-70		VN	30	1.68	0.00	±2.5	PASS
	The Computer	# 5	VN	40	1.68	0.00	±2.5	PASS
	ton of Globa	C Attestation of	VN	50	-0.13	-0.00	±2.5	PASS

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# Frequency Error vs. Voltage:

							CON11	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vardiat
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	veruici
Albai coniv	Global Comput	CO'	TN	VL	1.33	0.00	±2.5	PASS
		LCH	TN	VN	-1.13	0.00	±2.5	PASS
		-1117	ΤN	VH	-1.72	0.00	±2.5	PASS
	5	Compliance	TN	VL	-1.59	0.00	±2.5	PASS
WCDMA850	UMTS	МСН	TN	VN	3.10	0.00	±2.5	PASS
			TN	VH	3.43	0.00	<sup>°</sup> ±2.5	PASS
	The the manage	- NE	TN	VL	-1.13	0.00	±2.5	PASS
	of Global Collin	НСН	TN	VN	1.77	0.00	±2.5	PASS
	-0	Allestation	TN	VH	-0.23	0.00	±2.5	PASS
						Test inno	SIN COMP	03

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordiat	
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	verdict	
e Atlesiation		G	TN	VL	8.83	0.01	±2.5	PASS	
SO		LCH	ΤN	VN	2.40	0.00	±2.5	PASS	
		the manance	TN	VH	6.48	0.00	±2.5	PASS	
F al Global Comput	C The ration of	Hatono Global Co	TN	VL	-0.02	0.00	±2.5	PASS	
WCDMA1700	UMTS	UMTS	МСН	ΤN	VN	1.50	0.00	±2.5	PASS
	107	-711	TN	VH	1.92	0.00	±2.5	PASS	
35	The survey of the company	IF IN	TN	VL	2.11	0.00	±2.5	PASS	
e C Strestation of G		нсн	TN	VN	0.98	0.00	±2.5	PASS	
GU	S		ΤN	VH	9.26	0.01	±2.5	PASS	



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<b>M</b> 100			ALC: NO				line	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vardiat
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	veruici
THE THE	P.	0	TN	VL	8.47	0.00	±2.5	PASS
popal contr	sbal Complet	LCH	TN	VN	5.08	0.00	±2.5	PASS
a.C			TN	VH	7.78	0.00	±2.5	PASS
		Alte:	TN	VL	8.64	0.00	±2.5	PASS
WCDMA1900	UMTS	MCH	TN	VN	7.63	0.00	±2.5	PASS
Attestation of Gue	Attestation of Gio	5	TN	VH	12.31	0.01	±2.5	PASS
			ΤN	VL	9.90	0.01	±2.5	PASS
	the manance	HCH	TN	VN	8.01	0.00	±2.5	PASS
C A Hund	R Slopal Co	Frad Gabalcon	TN	VH	12.89	0.01	±2.5	PASS

The results showing the streport refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc.gett.com.



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### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordiat
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	verdict
Global Contr	Global Comp	GO	VN	-10	-2.20	0.00	±2.5	PASS
			VN	0	-1.59	0.00	±2.5	PASS
		-111	VN	10	-4.01	0.00	±2.5	PASS
WCDMA850	UMTS	LCH	VN	20	-2.41	0.00	±2.5	PASS
	C Thestation of C	loba	VN	30	-2.12	0.00	±2.5	PASS
			VN	40	-3.16	0.00	<sup>°</sup> ±2.5 (	PASS
	相調	34	VN	50	5.20	0.01	±2.5	PASS
C There are	of Global Court	The stand	VN ©	-10	-2.99	0.00	±2.5	PASS
	-C	Allestation	VN	0	-0.08	0.00	±2.5	PASS
	0		VN	10	0.34	0.00	±2.5	PASS
WCDMA850	UMTS	MCH	VN	20	-1.04	0.00	±2.5	PASS
	The Complian	e a	VN	30	-0.63	0.00	±2.5	PASS
	onofGie	GU	VN	40	4.12	0.00	±2.5	PASS
			VN	50	3.57	2.20 $0.00$ $1.59$ $0.00$ $4.01$ $0.00$ $2.41$ $0.00$ $2.41$ $0.00$ $2.12$ $0.00$ $3.16$ $0.00$ $5.20$ $0.01$ $2.99$ $0.00$ $0.08$ $0.00$ $0.34$ $0.00$ $0.63$ $0.00$ $1.04$ $0.00$ $0.63$ $0.00$ $8.57$ $0.00$ $8.10$ $0.00$ $3.10$ $0.00$ $3.46$ $0.00$ $1.28$ $0.00$ $8.30$ $0.00$ $8.30$ $0.00$ $8.30$ $0.00$	±2.5	PASS
A THE		The the pollence	VN	-10	4.03	0.00	±2.5	PASS
	C 5. 4	of Global CO.	VN	0	3.10	0.00	±2.5	PASS
	C Allesu		VN	10	3.46	0.00	±2.5	PASS
WCDMA850	UMTS	HCH	VN	20	-1.28	0.00	±2.5	PASS
	The Compliance	The state	VN	30	1.83	0.00	±2.5	PASS
	Glove	R Attestation of C	VN	40	3.30	0.00	±2.5	PASS
	S		VN	50	1.37	0.00	±2.5	PASS



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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	) (a sali a t
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	verdict
- HE mars	THE THE	© 🐔	VN	-10	2.43	0.00	±2.5	PASS
Solar Comme	spal Complia	CO T	VN	0	7.03	0.00	±2.5	PASS
			VN	10	7.23 🔬	0.00	±2.5	PASS
WCDMA1700	UMTS	LCH	VN	20	2.38	0.00	±2.5	PASS
	T	Compliance	VN	30	0.73	0.00	±2.5	PASS
	Thestation of Glo		VN	40	-2.06	0.00	±2.5	PASS
	h.		VN	50	3.75	0.00	±2.5	PASS
	the mance	杨	VN	-10	5.22	0.00	±2.5	PASS
	R Slobal Conv	F Global Con	VN	0	9.38	0.01	±2.5	PASS
	-0	Attestatio	VN	10	-1.25	0.00	±2.5	PASS
WCDMA1700	UMTS	МСН	VN	20	0.37	0.00	±2.5	PASS
	100		VN	30	1.34	0.00	±2.5	PASS
	The terminance	C Ante	VN	40	-0.17	0.00	±2.5	PASS
	<sup>91</sup> 0.	G	VN	50	2.35	0.00	±2.5	PASS
S			VN	-10	-0.55	0.00	±2.5	PASS
	~	K Hampunce	VN	0	8.30	0.00	±2.5	PASS
	C France	Slobal Cu	VN	10	2.43	0.00	±2.5	PASS
WCDMA1700	UMTS	НСН	VN	20	-0.41	0.00	±2.5	PASS
	-1111		VN	30	5.57	0.00	±2.5	PASS
	al Compliance	The solution	VN	40	4.44	0.00	±2.5	PASS
		B Attestation of	VN	50	2.64	0.00	±2.5	PASS

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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	) (o reliet
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	verdict
- HE mars	THE THE	© 🤹	VN	-10	6.09	0.00	±2.5	PASS
A construction of the loss com	spal Complia	CO T	VN	0	5.46	0.00	±2.5	PASS
			VN	10	7.05 🔬	0.00	±2.5	PASS
WCDMA1900	UMTS	LCH	VN	20	7.46	0.00	±2.5	PASS
	T	Compliance	VN	30	5.37	0.00	±2.5	PASS
	Thestation of Glo		VN	40	10.18	0.01	±2.5	PASS
	h.		VN	50	6.79	0.00	±2.5	PASS
	the mance	10	VN	-10	10.44	0.01	±2.5	PASS
	R Slobal Conv	F A Global Con	VN	0	8.62	0.00	±2.5	PASS
	~C	Attestatio	VN	10	5.78	0.00	±2.5	PASS
WCDMA1900	UMTS	МСН	VN	20	6.13	0.00	±2.5	PASS
	100		VN	30	15.29	0.01	±2.5	PASS
	The terminance	C Atte	VN	40	8.01	0.00	±2.5	PASS
	or 0'	G	VN	50	8.47	0.00	±2.5	PASS
S			VN	-10	9.84	0.01	±2.5	PASS
		the manance	VN	0	11.03	0.01	±2.5	PASS
	C France	Global Cur	VN	10	5.65	0.00	±2.5	PASS
WCDMA1900	UMTS	НСН	VN	20	7.83	0.00	±2.5	PASS
	-111		VN	30	10.07	0.01	±2.5	PASS
	al Compliance	The solution	VN	40	10.27	0.01	±2.5	PASS
		8) Attestation of	VN	50	9.32	0.00	±2.5	PASS

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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----

