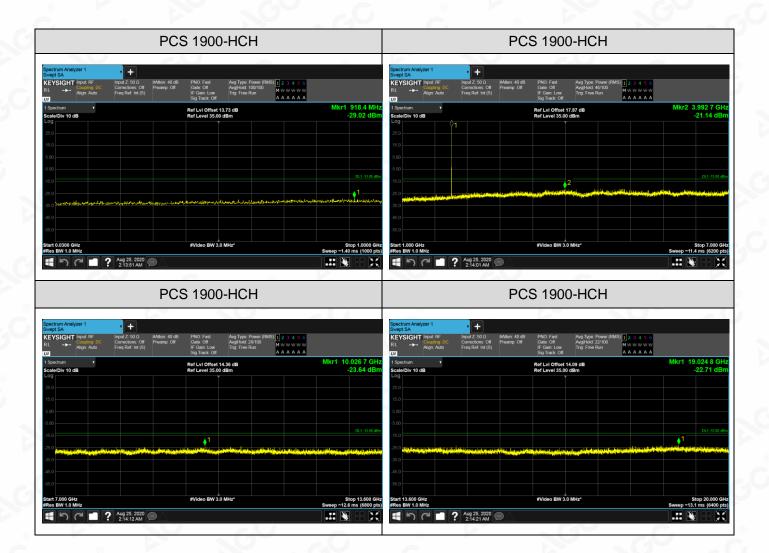


Report No.: AGC00248200801FE02 Page 46 of 69



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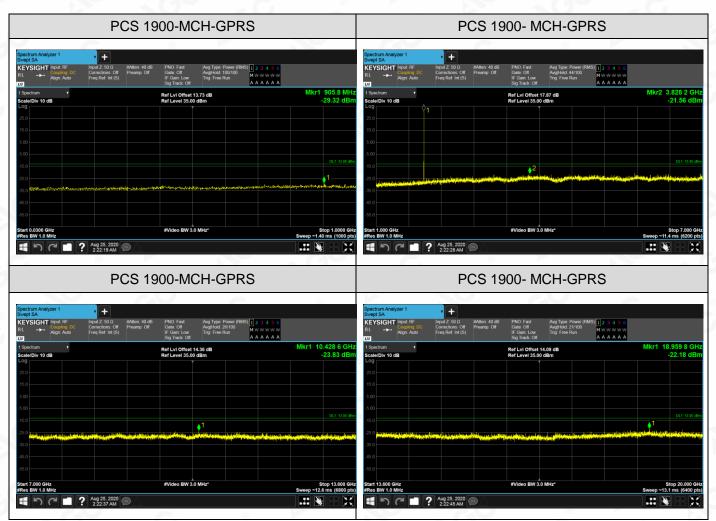
Report No.: AGC00248200801FE02 Page 47 of 69

	PCS 1900-LC	CH-GPRS			PCS 1900- LCH-GP	RS	
Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF RL + Algn: Auto Freq Ret in Freq Ret in	: Off Preamp: Off Gate: Off	Awg Type: Power (RMS) 1 2 3 4 5 6 AwgHold: 100/100 Thg: Free Run M w w w w w		Spectrum Analyzer 1 Swept SA KEYSIGHT Input RF RL + Mign Auto Align Auto	Off Preamp: Off Gate: Off AvgiHold: 43/100	MS) 1 2 3 4 5 6 M W W W W W	
RL →→ Align Freq Ref. In 1 Spectrum ▼ Scale/Div 10 dB 250 250 150 150 150	nt (S) IF Gam. Low Sig Track. Off Ref Level 35.00	13.73 dB	Mkr1 913.6 MHz -29.48 dBm	CO CO CO Solution CO Solution CO Solution CO	(S) IF Can: Low Trig Free Run Sig Track. Off Ref Level 35.00 dBm	Mkr2 5.825 0 GF -21.16 dB	
500 500 -150 -250 -350 	Stange of a land bridger product where deter	an glydinn gyn yn y lydr y lygar y glydr yn arwedi a fyn fwr arwedi ar	01-13.00 dBm 1 	500 500 150 250 350	na se a constante a la constante de la constant		
450 550 Start 0.0300 GHz #Res BW 1.0 Miz	#Video BW 3.	0 MHz*	Stop 1.0000 GHz Sweep -1.40 ms (1000 pts)	450 550 Start 1.000 GHz Rres BW 1.0 MHz Res BW 1.0 MHz Aug 25. 20 221:38 Al	EVideo BW 3.0 MHz*	Stop 7.000 G Sweep ~11.4 ms (6200 p	
	PCS 1900-LC	CH-GPRS		PCS 1900- LCH-GPRS			
Spectrum Analyzer 1	: Off Preamp: Off Gate: Off	Avg Type: Power (RMS) 1 2 3 4 5 AvgHold: 20/100 M w w w w w Trig: Free Run A ∧ A ∧ A ∧ A		Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF RL → Cooping DC Align Auto Freq Ref. Int	eXten 40 db PNO Faet Avg Type Power (0 Preamp Of Cele Cel Avg Hod 2110) (5) Free Pour Cele Cel Trip Free Pour Sig Track Cel	MS) [] 2 3 4 5 6 M W W W W W A A A A A A	
Scale/Div 10 dB	Ref Level 35.00	14.36 dB	Mkr1 8.776 4 GHz -23.54 dBm	1 Spottum Scale/Div 10 dB 25.0 15.0	Ref Lvi Offset 14.09 dB Ref Level 35.00 dBm	Mkr1 18.980 8 G -22.26 dB	
5 00 5 00 15 0 25 0 25 0 3 0 3 0			DL1 -13 00 dBm	5.00 -5.00 -15.0 -25	une the standard filled a standard grant of the standard standard standard standard standard standard standard		
45.0 45.0 55.0 Start 7.000 GHz	#Video BW 3J	0 MHz*	Stop 13.600 GHz	-500 -550 Start 13.600 GHz #Res BW 1.0 MHz	#Video BW 3.0 MHz*	Stop 20.000 G	
Res BW 1.0 MHz			Sweep ~12.6 ms (6800 pts)	Writes BW 1.0 MHZ		Sweep ~13.1 ms (6400 p	

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Report No.: AGC00248200801FE02 Page 48 of 69



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Report No.: AGC00248200801FE02 Page 49 of 69

	PCS 1900-HCH-GPRS		P	CS 1900- HCH-GPRS	3
Spectrum Analyzer 1 Swept SA KEYSIGHT Input. RF RL → Align Auto Freq Ref. In Align Auto Freq Ref. In	: Off Preamp: Off Gate: Off Avg Hold: 100/100 M W W It (S) IF Gain: Low Trig: Free Run M W W	₩₩₩ RL +→-	T Input: RF Input Z: 50 Ω		2 3 4 5 6 www.ww A A A A A
5 Spectrum	Sig Track Off A A A Ref Level 35.0 dBm Ref Level 35.0 dBm	Mkr1 898.0 MHz 1 Spectrum -29.93 dBm Scaterbit 10 Log 25.0 15.0 15.0	48 0 0 0 0 0 0 0 0 0 0 0 0 0	Sig Track Off A / A / Ref Lvi Offset 17.87 dB Ref Lvi Offset 17.87 dB	Mkr2 5.830 8 GHz -20.67 dBm
5:00 	مرور می اور و می و	0.00 01-1200-00 41 250 450 450 550	gen and an		2 0.1-13 08 484 4,456 - 2,1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Start 0.0300 GHz #Res BW 1.0 MHz # 5 C 2:23.10/	#Video BW 3.0 MHz*	Stop 1.0000 GHz Start 1.000 G Sweep -1.40 ms (1000 pts) #Res BW 1.0		#Video BW 3.0 MHz*	Stop 7.000 GHz Sweep ~11.4 ms (6200 pts)
	PCS 1900- HCH-GPRS		P	CS 1900- HCH-GPRS	3
Spectrum Analyzer 1 Swept SA KEVSIGHT Input RF RL - Align Aug DC Align Aug	: Off Preamp: Off Gate: Off Avg[Hold: 26/100	₩₩₩ RL +>•		IF Gain: Low Trig: Free Run	2 3 4 5 6 WWWWWWW
1 Spectrum * 2 Scale/Div 10 dB 25.0 15.0 - 5.0 - 5.00 -	Ref Level 35.00 dBm	Mkr1 10.401 4 GHz 1 Spectrum -23.61 dBm ScaleTolv 10 250 150 500 500	de	Ref Level 35.00 dBm	Mkr1 18.931 8 GHz -22.04 dBm
-15.0	a 1	DL1-13.09 dBm15.0 -25.0		After bargest provide this in denical second side support in the support of the second s	DL1-13 00 dBm
-35.0 45.0 -56.0		-35 0			
350 450 500 Start 7,000 GHz #Res BW 1.0 MHz # C C C 22327/	#Video BW 3.0 MHz*	Stor 13.600 GHz Start 13.600 Sweep -12.6 ms (6800 pts) FRee BW 10	SHz MHz C ^{2336AM}	#Video BW 3.6 MHz*	Stop 20.000 GHz Sweep 13.1 ms (6400 ptb)

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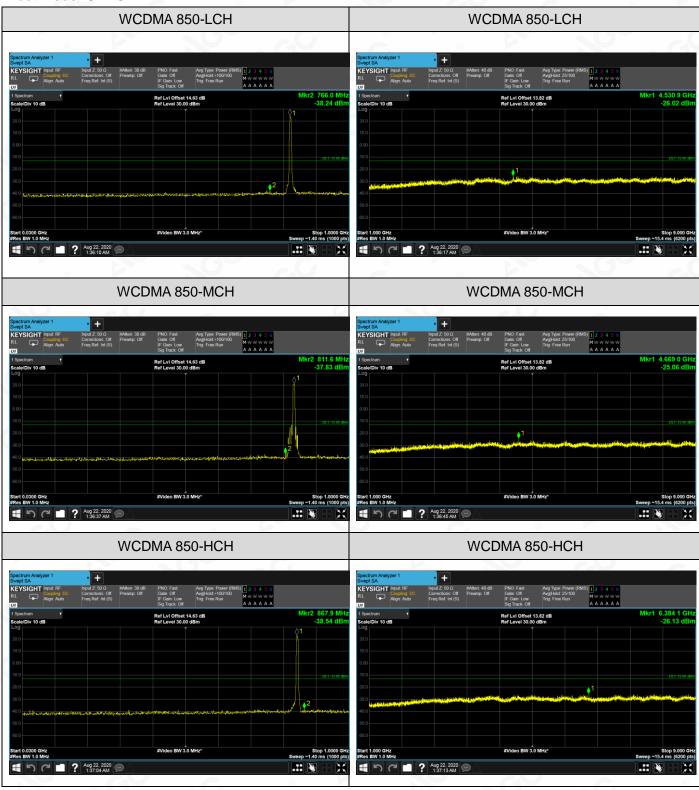
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Report No.: AGC00248200801FE02 Page 50 of 69

Test Band=WCDMA850/WCDMA1900

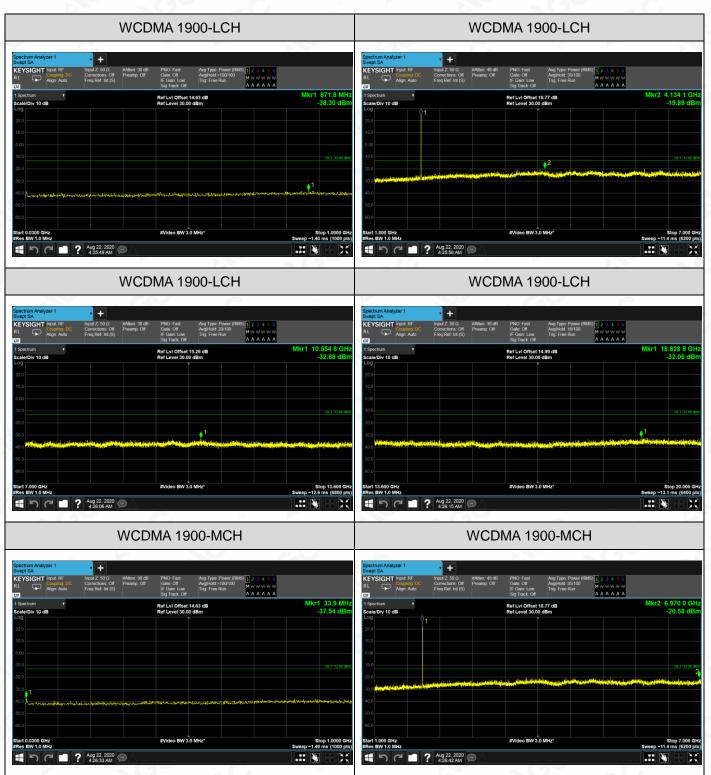
Test Mode=UMTS



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Report No.: AGC00248200801FE02 Page 51 of 69



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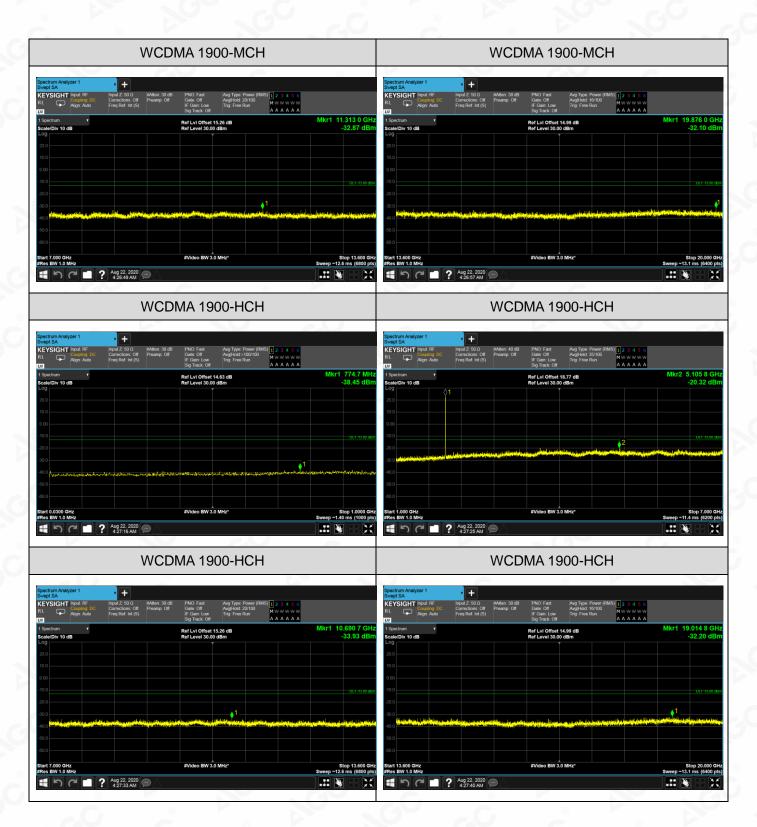
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Report No.: AGC00248200801FE02 Page 52 of 69



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

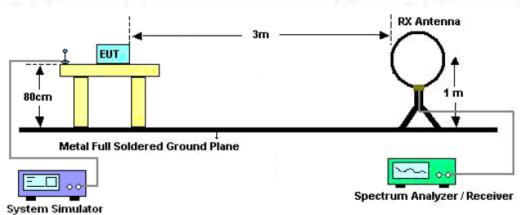
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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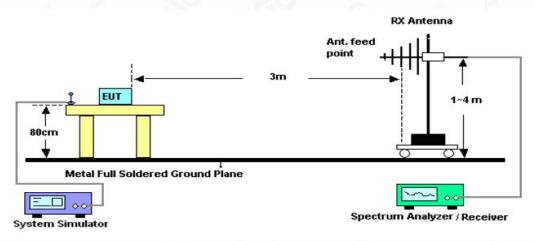
Report No.: AGC00248200801FE02 Page 54 of 69

9.2.2 TEST SETUP

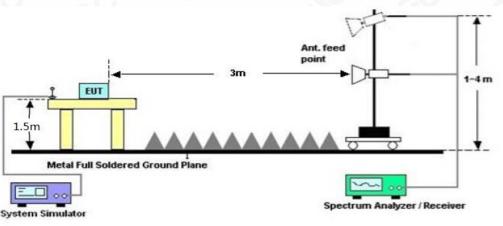


Radiated Emission Test-Setup Frequency Below 30MHz

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Report No.: AGC00248200801FE02 Page 55 of 69

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.

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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				
1697.60	-58.69	-13	-45.69	Horizontal				
3623.21	-54.74	-13	-41.74	Horizontal				
5841.36	-53.03	-13	-40.03	Horizontal				
1697.60	-56.13	-13	-43.13	Vertical				
3001.35	-56.39	-13	-43.39	Vertical				
5253.31	-52.31	-13	-39.31	Vertical				

PCS 1900:

The Worst Test Results for Channel 810/1909.8MHz									
Frequency	Emission Level	Limits	Margin	Commont					
(MHz)	(dBm)	(dBm)	(dB)	- Comment					
1615.25	-57.33	-13	-44.33	Horizontal					
3819.60	-58.73	-13	-45.73	Horizontal					
6124.25	-56.77	-13	-43.77	Horizontal					
1847.51	-56.01	-13	-43.01	Vertical					
3819.60	-58.33	-13	-45.33	Vertical					
5821.33	-55.51	-13	-42.51	Vertical					

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Report No.: AGC00248200801FE02 Page 57 of 69

HSPA band II:

	The Worst Test Results for Channel 9538/1907.6MHz									
Frequency	Emission Level	Limits	Margin	Commont						
(MHz)	(dBm)	(dBm)	(dB)	Comment						
1845.25	-53.25	-13	-40.25	Horizontal						
3815.20	-51.56	-13	-38.56	Horizontal						
6524.35	-50.04	-13	-37.04	Horizontal						
1745.69	-51.51	-13	-38.51	Vertical						
3815.20	-51.66	-13	-38.66	Vertical						
6643.21	-52.24	-13	-39.24	Vertical						

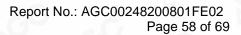
HSPA band V:

The Worst Test Results for Channel 4233/846.6MHz								
Frequency	Emission Level	Limits	Margin	Comment				
(MHz)	(dBm)	(dBm)	(dB)					
1693.20	-53.83	-13	-40.83	Horizontal				
3365.78	-52.81	-13	-39.81	Horizontal				
6125.36	-52.07	-13	-39.07	Horizontal				
1693.20	-55.10	-13	-42.10	Vertical				
3574.13	-52.26	-13	-39.26	Vertical				
6695.47	-52.03	-13	-39.03	Vertical				

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° 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° C increments from -10° C to $+40^{\circ}$ 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 +40℃.

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° C increments from $+40^{\circ}$ 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° during the measurement procedure.

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Report No.: AGC00248200801FE02 Page 59 of 69

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 3.15 VDC and 4.2VDC, with a nominal voltage of 3.7V DC. 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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Report No.: AGC00248200801FE02 Page 60 of 69

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
Pro Por	- (TN	VL	5.75	0.006976	±2.5	PASS	
	LCH	TN	VN	3.42	0.004149	±2.5	PASS	
C,C	c C	0	TN	VH	9.56	0.011599	±2.5	PASS
	60	1 МСН	TN	VL	2.84	0.003395	±2.5	PASS
GSM850	GSM		TN	VN	2.32	0.002773	±2.5	PASS
0	C		TN	VH	9.23	0.011033	±2.5	PASS
		C.	TN	VL	9.56	0.011263	±2.5	PASS
		нсн	TN	VN	9.56	0.011263	±2.5	PASS
			TN	VH	8.98	0.010580	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
	60		TN	VL	-2.97	-0.003603	±2.5	PASS
		LCH	TN	VN	-2.13	-0.002584	±2.5	PASS
G	®		TN	VH	-1.55	-0.001881	±2.5	PASS
.0		G	TN	VL	4.07	0.004865	±2.5	PASS
GSM850	GPRS	MCH	TN	VN	5.42	0.006479	±2.5	PASS
0			TN	VH	7.94	0.009491	±2.5	PASS
0	~.C		TN	VL	10.46	0.012323	±2.5	PASS
		HCH	TN	VN	11.11	0.013089	±2.5	PASS
œ	©.		TN	VH	12.91	0.015210	±2.5	PASS

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Report No.: AGC00248200801FE02 Page 61 of 69

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	
8	0		TN	VL	22.47	0.012145	PASS
AGC AGC	LCH	TN	VN	22.47	0.012145	PASS	
	GU	-0	TN	VH	24.34	0.013155	PASS
			TN	VL	10.65	0.005665	PASS
PCS1900	GSM	МСН	TN	VN	10.59	0.005633	PASS
		<i>.</i> .C	TN	VH	8.14	0.004330	PASS
			C TN	VL	-3.42	-0.001791	PASS
		нсн	TN	VN	9.10	0.004765	PASS
		0	TN	VH	8.91	0.004665	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	
8		No.	TN	VL	-8.01	-0.004329	PASS
~.C	©	LCH	TN	VN	0.00	0.000000	PASS
	.,0	- Ci	TN	VH	-5.55	-0.003000	PASS
0		0	TN	VL	10.14	0.005394	PASS
GSM1900	GPRS	MCH	TN	VN	25.51	0.013569	PASS
~ C	1	G	○ TN	VH	27.57	0.014665	PASS
		- 6	TN	VL	7.75	0.004058	PASS
0	0	НСН	TN	VN	23.12	0.012106	PASS
0	-C	3	TN	VH	27.38	0.014337	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very samll. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted duing the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperture and voltage range as tested.

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Report No.: AGC00248200801FE02 Page 62 of 69

Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
	Mode	Channel						Verdict
Band	wode	Channel	Volt.	Tem. (° C)	(Hz)	(ppm)	(ppm)	
			VN	-10	9.36	0.011356	±2.5	PASS
			VN	0	8.98	0.010895	±2.5	PASS
GSM850	GSM	LCH	VN	10	8.85	0.010738	±2.5	PASS
GSINIOSU	GSIVI	LCH	VN	20	0.00	0.000000	±2.5	PASS
	0	8	VN	30	5.68	0.006892	±2.5	PASS
	3	6.0	VN	40	4.97	0.006030	±2.5	PASS
©		и мсн	VN	-10	8.20	0.009802	±2.5	PASS
			VN	0	1.36	0.001626	±2.5	PASS
COMPEO	COM		VN	10	1.16	0.001387	±2.5	PASS
GSM850	GSM		VN	20	4.33	0.005176	±2.5	PASS
			VN	30	6.46	0.007722	±2.5	PASS
	. 69		VN	40	7.68	0.009180	±2.5	PASS
8		No.	VN	-10	7.75	0.009131	±2.5	PASS
	3		VN	0	10.33	0.012170	±2.5	PASS
0014050	0014		VN	10	10.33	0.012170	±2.5	PASS
GSM850	GSM	НСН	VN	20	12.07	0.014220	±2.5	PASS
	8	(C)	VN	30	10.59	0.012476	±2.5	PASS
		G	VN	40	8.52	0.010038	±2.5	PASS

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Report No.: AGC00248200801FE02 Page 63 of 69

Test Band	Test Mode	Test Chann el	Test Volt.	Test Tem. (℃)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
0	©		VN	-10	9.88	0.011987	±2.5	PASS
GSM850 GPRS		VN	0	8.59	0.010422	±2.5	PASS	
	LCH	VN	10	1.03	0.001250	±2.5	PASS	
	LCH	VN	20	10.46	0.012691	±2.5	PASS	
	30	0.5	VN	30	11.75	0.014256	±2.5	PASS
0			VN	40	4.13	0.005011	±2.5	PASS
		8	VN	-10	11.62	0.013890	±2.5	PASS
SO'	. 6	0	VN	0	5.94	0.007100	±2.5	PASS
0014050	0000	S MCH	VN	10	6.07	0.007256	±2.5	PASS
GSM850	GPRS		VN	20	6.78	0.008104	±2.5	PASS
NO	00		VN	30	7.68	0.009180	±2.5	PASS
		S	VN	40	9.56	0.011427	±2.5	PASS
- C	© (VN	-10	14.72	0.017342	±2.5	PASS
0	0		VN	0	7.30	0.008600	±2.5	PASS
0014050	0000		VN	10	8.59	0.010120	±2.5	PASS
GSM850	GPRS	НСН	VN	20	7.62	0.008977	±2.5	PASS
.0		G	VN	30	16.47	0.019404	±2.5	PASS
			VN	40	8.07	0.009508	±2.5	PASS

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Report No.: AGC00248200801FE02 Page 64 of 69

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict
Band	Mode	Channel	Volt.	Tem. (℃)	(Hz)	(ppm)	
G			VN	-10	16.14	0.008723	PASS
			VN	0	18.02	0.009739	PASS
PCS1900	GSM		VN	10	22.34	0.012074	PASS
PC51900	GSIM	LCH	VN	20	6.13	0.003313	PASS
8			VN	30	17.56	0.009491	PASS
-,0	C.	®	VN	40	17.05	0.009215	PASS
	0014	МСН	VN	-10	22.28	0.011851	PASS
			VN	0	20.60	0.010957	PASS
DO01000			VN	10	17.82	0.009479	PASS
PCS1900	GSM		VN	20	20.86	0.011096	PASS
			VN	30	18.73	0.009963	PASS
- 6	®		VN	40	20.08	0.010681	PASS
	60		VN	-10	19.37	0.010142	PASS
0		SM HCH	VN	0	17.95	0.009399	PASS
DO04000	0014		VN	10	18.14	0.009498	PASS
PCS1900	GSM		VN	20	18.34	0.009603	PASS
			VN	30	16.27	0.008519	PASS
	8		VN	40	14.33	0.007503	PASS

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Report No.: AGC00248200801FE02 Page 65 of 69

					Carl Carl			
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict	
Band Mode		Channel	Volt.	Tem. (° ℃)	(Hz)	(ppm)	Verdict	
	0	<i>c.</i> C	VN	-10	10.46	0.005653	PASS	
			VN	0	5.94	0.003210	PASS	
	CDDS		VN	10	20.79	0.011237	PASS	
GSM1900	GPRS	LCH	VN	20	16.08	0.008691	PASS	
®			VN	30	14.92	0.008064	PASS	
- C			VN	40	13.37	0.007226	PASS	
	GPRS	MCH	S VN	-10	27.57	0.014665	PASS	
			VN	0	10.53	0.005601	PASS	
0.0144.000			VN	10	20.86	0.011096	PASS	
GSM1900			VN	20	24.15	0.012846	PASS	
			VN	30	9.75	0.005186	PASS	
- 6			VN	40	25.38	0.013500	PASS	
	60	C.	VN	-10	24.47	0.012813	PASS	
8		PRS HCH	VN	0	19.76	0.010347	PASS	
0014000	0000		VN	10	20.60	0.010786	PASS	
GSM1900	GPRS		◎ VN	20	22.66	0.011865	PASS	
			VN	30	22.28	0.011666	PASS	
			VN	40	4.46	0.002335	PASS	

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very samll. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted duing the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperture and voltage range as tested.

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Report No.: AGC00248200801FE02 Page 66 of 69

Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit) (a nali a t
Band	Mode	Mode Channel		Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
· · ·		2	ΤN	VL	5.91	0.007152	±2.5	PASS
CO.	©	LCH	TN	VN	4.61	0.005578	±2.5	PASS
	GU	-C	ΤN	[©] ∨H	4.68	0.005663	±2.5	PASS
8			TN	VL	5.58	0.006671	±2.5	PASS
WCDMA850	UMTS	МСН	TN	VN	2.33	0.002786	±2.5	PASS
		C.C	TN	VH	10.57	0.012637	±2.5	PASS
8			TN	VL	4.85	0.005729	±2.5	PASS
		НСН	TN	VN	2.06	0.002433	±2.5	PASS
		0	TN	VH	2.33	0.002752	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Vordiat																	
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	Verdict																	
c.C	8		TN	VL	8.29	0.004475	PASS																	
	1	LCH	TN	VN	-1.62	-0.000875	PASS																	
	SC SC		TN	VH	3.40	0.001835	PASS																	
C a		UMTS	UMTS	UMTS	UMTS	UMTS	UMTS	UMTS												TN	VL	2.94	0.001564	PASS
WCDMA1900									МСН	TN	VN	-0.44	-0.000234	PASS										
		S GO	TN	VH	0.87	0.000463	PASS																	
8			TN	VL	961.67	0.504126	PASS																	
	C	HCH	TN	VN	852.40	0.446844	PASS																	
		G	TN	VH	608.23	0.318846	PASS																	

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very samll. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted duing the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperture and voltage range as tested.

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Report No.: AGC00248200801FE02 Page 67 of 69

Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Volt.	Tem. (℃)	(Hz)	(ppm)	(ppm)	Verdict
ĉ			VN	-10	3.71	0.004489	±2.5	PASS
	C		VN	0	7.05	0.008531	±2.5	PASS
			VN	10	5.49	0.006643	±2.5	PASS
WCDMA850	UMTS	S LCH	VN	20	2.01	0.002432	±2.5	PASS
	ç		VN	30	9.52	0.011520	±2.5	PASS
			VN	40	4.12	0.004985	±2.5	PASS
8		TS MCH	VN	-10	3.85	0.004659	±2.5	PASS
	UMTS		VN	0	4.27	0.005167	±2.5	PASS
			VN	10	7.14	0.008537	±2.5	PASS
WCDMA850			VN	20	6.30	0.007532	±2.5	PASS
			VN	30	1.42	0.001698	±2.5	PASS
			VN	40	-0.47	-0.000562	±2.5	PASS
8		No.	VN	-10	8.74	0.010450	±2.5	PASS
WCDMA850	3	IMTS HCH	VN	0 0	4.00	0.004725	±2.5	PASS
			VN 🛛	10	8.97	0.010595	±2.5	PASS
	UNIS		VN	20	2.01	0.002374	±2.5	PASS
			VN	30	8.16	0.009639	±2.5	PASS
		G	VN	40	-1.33	-0.001571	±2.5	PASS

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Report No.: AGC00248200801FE02 Page 68 of 69

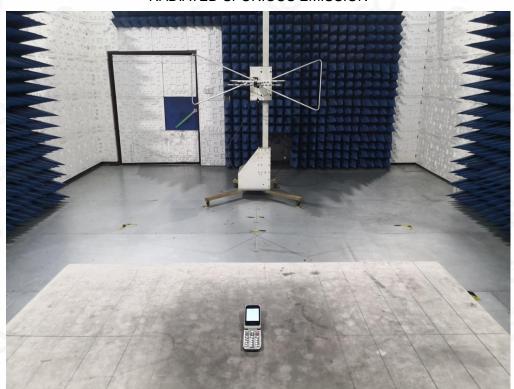
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Verdict
Band	Mode	Channel	Volt.	Tem. (° C)	(Hz)	(ppm)	veruic
	S	a.C	VN	· -10	1.19	0.000642	PASS
			VN	0	9.12	0.004923	PASS
			VN	10	7.95	0.004292	PASS
WCDMA1900	UMTS	LCH	VN	20	5.63	0.003039	PASS
			VN	30	2.78	0.001501	PASS
		©	VN	40	8.79	0.004745	PASS
	UMTS	S MCH	VN	-10	-4.12	-0.002224	PASS
			VN	0	0.50	0.000270	PASS
			VN	10	4.21	0.002239	PASS
WCDMA1900			VN	20	4.10	0.002181	PASS
			VN	30	3.14	0.001670	PASS
			VN	40	-4.07	-0.002165	PASS
	30	- C	VN 💿	-10	211.21	0.112346	PASS
		та нсн	VN	0	604.13	0.321346	PASS
			VN	10	517.41	0.271236	PASS
WCDMA1900	UMTS		VN	20	510.80	0.267771	PASS
			VN	30	411.16	0.215538	PASS
			VN	40	407.09	0.213404	PASS

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Report No.: AGC00248200801FE02 Page 69 of 69



APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED SPURIOUS EMISSION

RADIATED SPURIOUS ABOVE 1G EMISSION



----END OF REPORT----

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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