TEST REPORT

Reference No. WTS16S0961759-2E

FCC ID 2AJXM-G35

Applicant...... SUPERCOW TECHNOLOGY LIMITED

Address...... FLAT C 23/F LUCKY PLAZA 315-321 LOCKHART ROAD WAN

CHAI HONG KONG

Manufacturer Neel Enterprise

Address...... Room 13-24, 7/F, Sino Industrial Plaza, 9 Kai Cheung Road,

Kowloon Bay, Kowloon, Hong Kong

Product Name...... : Mobile Phone

Model No...... : G35

Brand.....: KOLOR

Standards..... FCC CFR47 Part 22 Subpart H: 2015

FCC CFR47 Part 24 Subpart E: 2015

Date of Receipt sample : Sep. 27, 2016

Date of Test Sep. 28 – Oct. 15, 2016

Test Result..... Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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Compiled by:

Zero Zhou / Test Engineer

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oved by:

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2 Test Summary

Test Items	Test Requirement	Result
	2.1046	
RF Output Power	22.913 (a)	PASS
	24.232 (c)	
Peak-to-Average Ratio	24.232 (d)	PASS
	2.1049	
Bandwidth	22.905	PASS
Bandwidth	22.917	PASS
	24.238	
	2.1051	
Spurious Emissions at Antenna Terminal	22.917 (a)	PASS
	24.238 (a)	
	2.1053	
Field Strength of Spurious Radiation	22.917 (a)	PASS
	24.238 (a)	
Out of hand emission Band Edge	22.917 (a)	PASS
Out of band emission, Band Edge	24.238 (a)	PASS
	2.1055	
Frequency Stability	22.355	PASS
	24.235	
Maximum Permissible Exposure	1.1307	DASS
(SAR)	2.1093	PASS

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4 Report Revision History

Report No.	Report Version	Description	Issue Date
WTS16S0961759-2E	NONE	Original	Oct. 17, 2016

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General Information 5

5.1 General Description of E.U.T.

Product Name : Mobile Phone

Model No. : G35 Model Description : N/A

: GSM 850/1900MHz GSM Band(s)

GPRS Class : 12 : N/A WCDMA Band(s) : N/A LTE Bnad(s) : N/A Wi-Fi Specification

Bluetooth Version : Bluetooth v3.0+EDR

GPS : N/A **NFC** : N/A

Hardware Version : X506 PCB V1.1

Software Version : V09_1012

Storage Location : Internal Storage

Note : This EUT has two SIM card slots, and use same one RF module. We

found that RF parameters are the same, when we insert the card 1 and

card 2. So we usually performed the test under main card slot 1.

5.2 Details of E.U.T.

: GSM/GPRS 850: 824~849MHz **Operation Frequency**

PCS/GPRS 1900: 1850~1910MHz

Bluetooth: 2402~2480MHz

: GSM 850: 32.75dBm Max. RF output power

PCS1900: 29.93dBm

Bluetooth: 0.64dBm

: GSM,GPRS: GMSK Type of Modulation

Bluetooth: GFSK, Pi/4 DQPSK,8DPSK

Antenna installation : GSM: internal permanent antenna

Bluetooth: internal permanent antenna

Antenna Gain :GSM 850: 1.0dBi

> PCS1900: 0.8dBi Bluetooth: 0.5dBi

Technical Data : Battery DC 3.7V, 650mAh

DC 5.7V, 0.8A, charging from adapter

(Adapter Input: 100-240V~50/60Hz 0.125A)

Adapter : Manufacture: Shenzhen ZhengHengda Technology Co. Ltd. Reference No.: WTS16S0961759-2E Page 7 of 39

Model No.: ZHD-002

Type of Emission : GSM850: 244KGXW, GPRS850: 243KGXW

PCS1900: 249KGXW, GPRS1900: 248KGXW

5.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Support Band	Test Mode	Channel Frequency	Channel Number	
		824.2 MHz	128	
GSM 850	GSM/GPRS	836.6 MHz	190	
		848.8 MHz	251	
		1850.2 MHz	512	
PCS 1900	GSM/GPRS	1880.0 MHz	661	
		1909.8 MHz	810	

Remark: All mode(s) were tested and the worst data was recorded.

5.4 Test Facility

The test facility has a test site registered with the following organizations:

• IC – Registration No.: 7760A

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2015.

FCC Test Site 1# Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

FCC Test Site 2# Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory 'has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

6 Equipment Used during Test

6.1 Equipments List

	6.1 Equipments List									
RF Cor	RF Conducted Test									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Mar.17,2016	Mar.16,2017				
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Mar.17,2016	Mar.16,2017				
3.	Humidity Chamber	GF	GTH-225-40-1P	IAA061213	Mar.17,2016	Mar.16,2017				
4.	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2016	Apr.09,2017				
3m Ser	3m Semi-anechoic Chamber for Radiated Emissions									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date				
1	EMC Analyzer	Agilent	E7405A	MY45114943	Mar.17,2016	Mar.16,2017				
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Mar.17,2016	Mar.16,2017				
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.18,2016	Apr.17,2017				
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Mar.17,2016	Mar.16,2017				
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.18,2016	Apr.17,2017				
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	669	Apr.18,2016	Apr.17,2017				
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2016	Mar.16,2017				
8	Coaxial Cable (above 1GHz)	Тор	1000MHz- 25GHz	EW02014-7	Apr.09,2016	Apr.08,2017				
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.18,2016	Apr.17,2017				
10	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2016	Apr.09,2017				
11	Signal Generator	R&S	SMR20	100046	Mar.17,2016	Mar.16,2017				
12	Smart Antenna	SCHWARZBECK	HA08	-	Apr.18,2016	Apr.17,2017				

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6.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Redicted Spurious Emissions toot	± 5.03 dB (Bilog antenna 30M~1000MHz)
Radiated Spurious Emissions test	± 5.47 dB (Horn antenna 1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

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7 RF OUTPUT POWER

Test Requirement: FCC Part 2.1046,22.913 (a),24.232 (c)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

7.1 EUT Operation

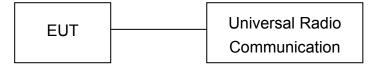
Operating Environment:

Temperature: 22.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

7.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

- 1. The setup of EUT is according with per TIA/EIA Standard 603D.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

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7.3 Test Result

Conducted Power

GSM - Burst Average Power (dBm)									
Band	G	SM850		P	CS1900				
Channel	128	190	251	512	661	810			
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8			
GSM	32.55	32.36	32.51	29.93	29.93	29.37			
GPRS (1 slot)	32.75	32.59	32.75	29.72	29.55	29.12			
GPRS (2 slots)	31.33	31.20	31.28	28.60	28.51	28.03			
GPRS (3 slots)	28.81	28.53	28.83	27.07	27.22	27.11			
GPRS (4 slots)	27.88	27.41	27.89	26.15	26.10	25.69			

Radiated Power

ERP and EIRP

Cellular Band (Part 22H)

					and (r ai					
Frague and a	Receiver	Turn	RX An	tenna	;	Substitut	ed	Absolute	Part	22H
Frequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
			(GSM 85	0 Chann	el 128				
824.20	90.05	39	1.5	Н	23.02	0.20	0.00	22.82	38.45	-15.63
824.20	97.59	23	1.7	V	30.49	0.20	0.00	30.29	38.45	-8.16
			(GSM 85	0 Chann	el 190				
836.60	92.41	194	1.2	Н	25.38	0.20	0.00	25.18	38.45	-13.27
836.60	97.69	200	2.4	V	30.59	0.20	0.00	30.39	38.45	-8.06
			(GSM 85	0 Chann	el 251				
848.80	92.63	21	2.1	Н	25.60	0.20	0.00	25.40	38.45	-13.05
848.80	97.26	128	1.1	V	30.16	0.20	0.00	29.96	38.45	-8.49
			C	SPRS 8	50 Chanr	nel 128			T	
824.20	92.29	152	1.0	Н	25.26	0.20	0.00	25.06	38.45	-13.39
824.20	97.35	274	1.5	V	30.25	0.20	0.00	30.05	38.45	-8.40
			C	SPRS 8	50 Chanr	nel 190			T	
836.60	91.27	83	2.0	Н	24.24	0.20	0.00	24.04	38.45	-14.41
836.60	97.67	269	2.0	V	30.57	0.20	0.00	30.37	38.45	-8.08
	GPRS 850 Channel 251									
848.80	93.25	97	1.2	Н	26.22	0.20	0.00	26.02	38.45	-12.43
848.80	97.58	318	1.8	V	30.48	0.20	0.00	30.28	38.45	-8.17

Cellular Band (Part 24E)

Cellular Band (Part 24E)										
F	Receiver	Turn	RX An	tenna	;	Substitut	ted	Absolute	Part 24E	
Frequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
			F	PCS 190	00 Chann	el 512				
1850.20	85.77	239	2.2	Ι	11.80	0.31	10.40	21.89	33	-11.11
1850.20	92.96	228	2.5	V	19.68	0.31	10.40	29.77	33	-3.23
			F	PCS 190	00 Chann	el 661				
1880.00	84.09	90	1.2	Н	10.24	0.31	10.40	20.33	33	-12.67
1880.00	92.26	106	1.7	V	19.14	0.31	10.40	29.23	33	-3.77
			F	PCS 190	00 Chann	el 810				
1909.80	87.83	355	2.4	Н	14.10	0.32	10.40	24.18	33	-8.82
1909.80	92.60	236	1.5	V	19.64	0.32	10.40	29.72	33	-3.28
			G	PRS 19	00 Chan	nel 512	,	.		
1850.20	85.85	262	1.2	Н	11.88	0.31	10.40	21.97	33	-11.03
1850.20	92.85	23	2.1	V	19.57	0.31	10.40	29.66	33	-3.34
			G	PRS 19	00 Chan	nel 661	,	.		
1880.00	87.23	205	1.7	Н	13.38	0.31	10.40	23.47	33	-9.53
1880.00	92.15	240	2.3	V	19.03	0.31	10.40	29.12	33	-3.88
	GPRS 1900 Channel 810									
1909.80	86.14	80	1.7	Н	12.41	0.32	10.40	22.49	33	-10.51
1909.80	92.25	267	1.3	V	19.29	0.32	10.40	29.37	33	-3.63

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8 Peak-to-Average Ratio

Test Requirement: 24.232 (d)

Test Method: N/A

Test Mode: Transmitting

8.1 EUT Operation

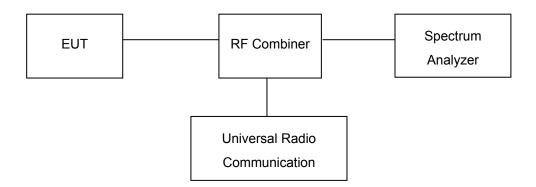
Operating Environment:

Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

8.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.

- 2. Set EUT to transmit at maximum output power.
- 3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
- 4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



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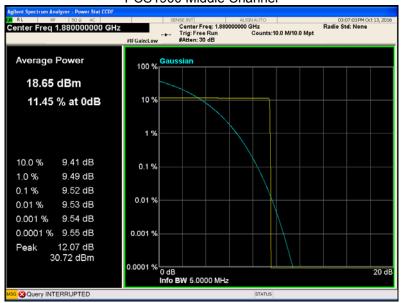
8.3 Test Result

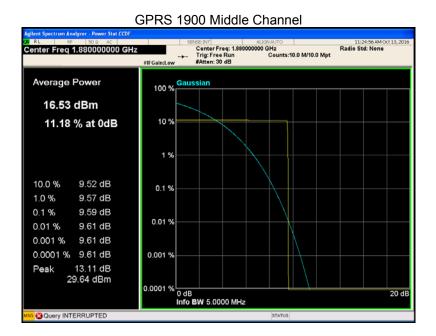
Remark: Only the worst case (middle channel mode) were reported Cellular Band (Part 24E)

Condid Bana (Fart 2 12)								
Mode		PCS 1900			GPRS 1900			
Channel	512	661	810	512	661	810	Limit	
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	(dB)	
Peak-to- Average Ratio (dB)	8.87	9.52	8.95	9.53	9.59	9.49	13	

Test Plots (Part 24E)

PCS1900 Middle Channel





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9 BANDWIDTH

Test Requirement: FCC Part 2.1049,22.917,22.905,24.238

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

9.1 EUT Operation

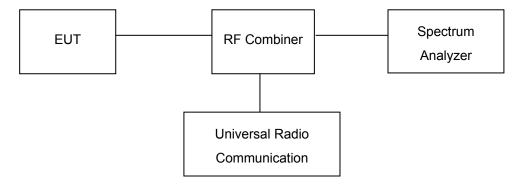
Operating Environment:

Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

9.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) and the 26 dB & 99%bandwidth was recorded.



9.3 Test Result

Remark: Only the worst case (middle channel mode) were reported

Cellular Band (Part 22H)

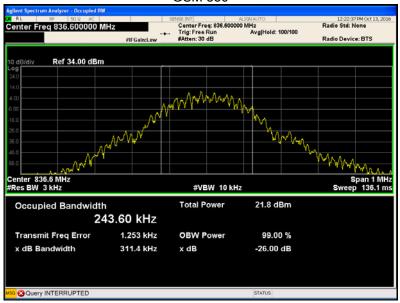
Test Mode	Channel	Frequency	99% Occupied	26 dB Emission
		(MHz)	Bandwidth(kHz)	Bandwidth(kHz)
GSM 850	128	824.2	243.46	311.24
	190	836.6	243.60	311.40
	251	848.8	243.48	311.28
GPRS 850	128	824.2	242.60	310.99
	190	836.6	242.72	311.10
	251	848.8	242.62	310.96

Cellular Band (Part 24E)

Ochida Bara (Fart 242)								
Test Mode	Channel	Frequency	99% Occupied	26 dB Emission				
		(MHz)	Bandwidth(kHz)	Bandwidth(kHz)				
PCS 1900	512	1850.2	249.00	311.12				
	661	1880.0	249.08	311.20				
	810	1909.8	248.94	311.11				
GPRS 1900	512	1850.2	247.62	318.38				
	661	1880.0	247.70	318.50				
	810	1909.8	247.57	318.39				

Test Plots (worst case) Cellular Band (Part 22H)

GSM 850

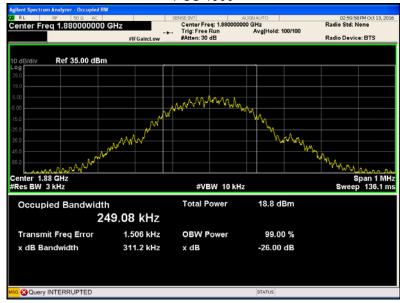


GPRS 850

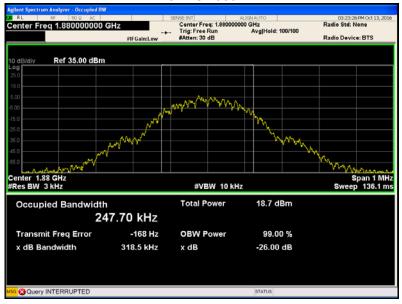


Cellular Band (Part 24E)

PCS 1900



GPRS 1900



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10 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

10.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.3kPa

10.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



10.3 Test Result

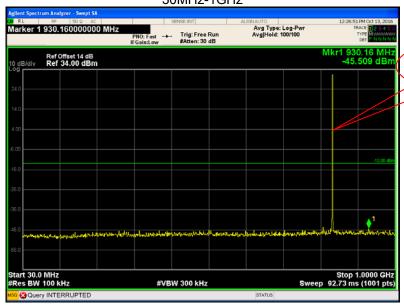
Remark: only the worst data were recorded.

Cellular Band (Part 22H)

GSM 850 - channel 128



Fundamental



Above 1GHz



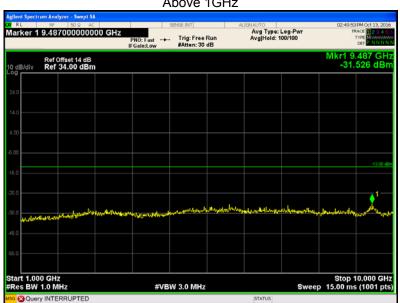
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Cellular Band (Part 22H) **GPRS 850 - channel 128**

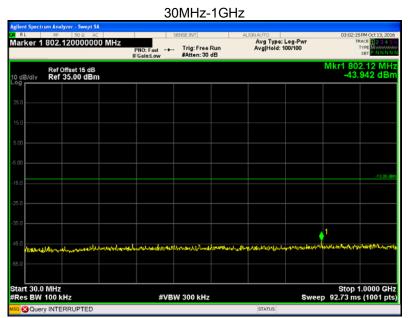


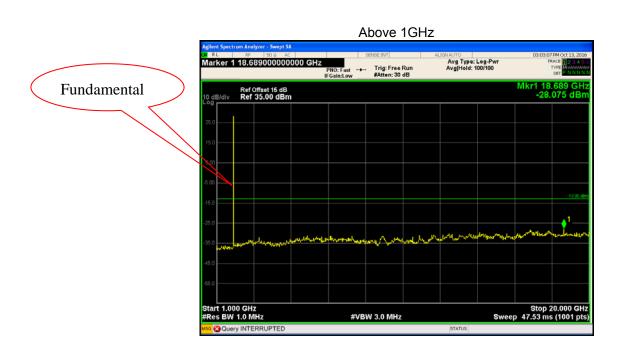
Above 1GHz

#VBW 300 kHz



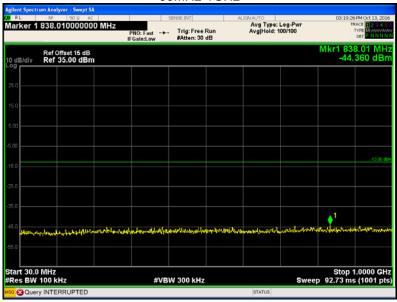
Cellular Band (Part 24E) PCS 1900 - channel 512





Cellular Band (Part 24E) GPRS 1900 - channel 512





Aplen Spectrum Analyses - Swepty SA Marker 1 16.941000000000 GHz Fundamental Ref Offset 15 dB Ref 35.00 dBm Start 1.000 GHz #VBW 3.0 MHz Sweep 47.33 ms (1001 pts)

Reference No.: WTS16S0961759-2E Page 26 of 39

11 SPURIOUS RADIATED EMISSIONS

Test Requirement: FCC Part 2.1053,22.917,24.238

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

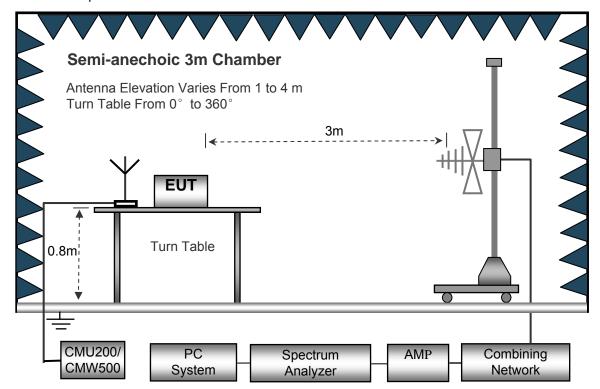
11.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

11.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The test setup for emission measurement from 30 MHz to 1 GHz.



Semi-anechoic 3m Chamber Antenna Elevation Varies From 1 to 4 m Turn Table From 0° to 360° 3m **EUT** 0.8m Turn Table CMU200/ PC Combining Spectrum AMP CMW500 Network System Analyzer

The test setup for emission measurement above 1 GHz.

11.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

Sweep Speed	Auto
Detector	PK
Resolution Bandwidth	1MHz
Video Bandwidth	3MHz
Detector	Ave.
Resolution Bandwidth	1MHz
Video Bandwidth	10Hz

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11.4 Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
- 7. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
 - Spurious emissions in dB = $10 \lg (TXpwr in Watts/0.001) the absolute level Spurious attenuation limit in dB = <math>43 + 10 \log 10$ (power out in Watts)
- 8. Repeat above procedures until the measurements for all frequencies are completed.

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11.5 Summary of Test Results

For 26MHz~30MHz,

The measurements were more than 20 dB below the limit and not reported.

Remark: Test performed from 30MHz to 10th harmonics with low/middle/high channels, only the worst data were recorded.

Cellular Band (Part 22H)

_ Receive	Receiver	Turn	RX Ar	ntenna		Substitut	ed	Absolute	Res	sult
Frequency	Reading	table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
				GSM 85	0 Channe	el 128				
199.38	40.51	223	1.5	Н	-70.00	0.15	0.00	-70.15	-13.00	-57.15
199.38	47.77	223	1.9	V	-59.82	0.15	0.00	-59.97	-13.00	-46.97
1648.40	67.93	320	1.3	Н	-46.04	0.30	9.40	-36.94	-13.00	-23.94
1648.40	57.17	45	1.6	V	-56.36	0.30	9.40	-47.26	-13.00	-34.26
2472.60	57.23	124	1.3	Н	-56.77	0.43	10.60	-46.60	-13.00	-33.60
2472.60	50.23	339	2.2	V	-60.05	0.43	10.60	-49.88	-13.00	-36.88

Cellular Band (Part 24E)

Frequency Receiver Reading	Receiver Turn	RX Antenna		Substituted			Absolute	Result		
	g table Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin	
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
	PCS 1900 Channel 512									
199.38	49.94	10	1.8	Н	-60.57	0.15	0.00	-60.72	-13.00	-47.72
199.38	40.58	243	1.1	V	-67.01	0.15	0.00	-67.16	-13.00	-54.16
3700.40	65.95	146	1.7	Н	-45.59	2.37	12.50	-35.46	-13.00	-22.46
3700.40	59.98	290	1.3	V	-49.83	2.37	12.50	-39.70	-13.00	-26.70
5550.60	53.58	197	1.1	Н	-56.03	2.86	12.90	-45.99	-13.00	-32.99
5550.60	44.73	113	2.1	V	-64.15	2.86	12.90	-54.11	-13.00	-41.11

Note: 1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Limit- Absolute Level

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12 Band Edge Measurement

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a)

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

12.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.3 % RH
Atmospheric Pressure: 101.3kPa

12.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

According to FCC Part 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

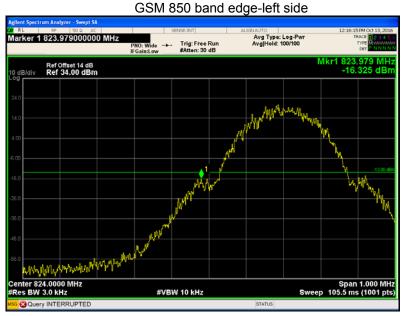
According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

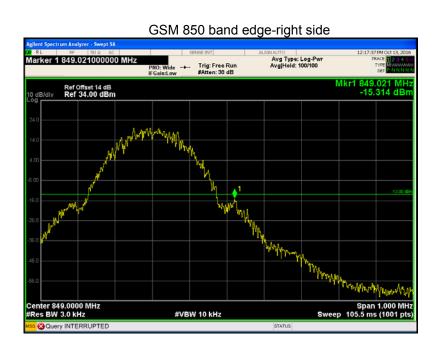
The center of the spectrum analyzer was set to block edge frequency

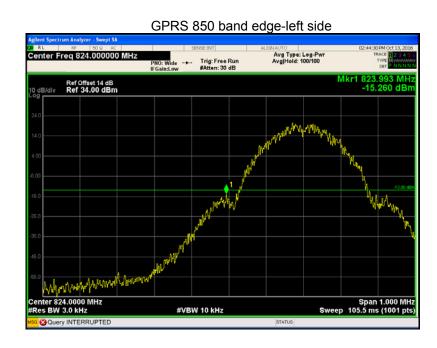


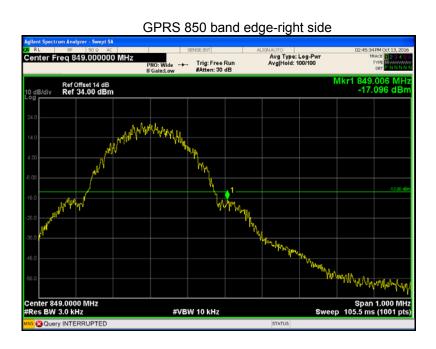
12.3 Test Result

Test plots
Cellular Band (Part 22H)





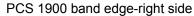




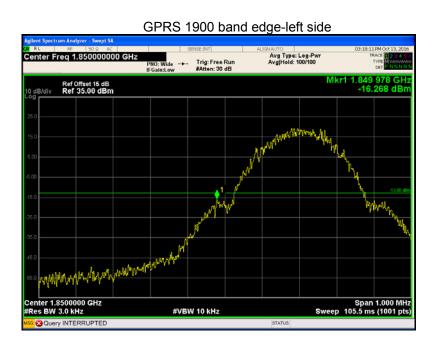
Cellular Band (Part 24E)

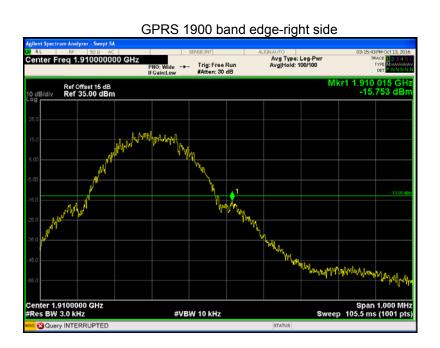
PCS 1900 band edge-left side











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13 FREQUENCY STABILITY

Test Requirement: FCC Part 2.1055,22.355,24.235

Test Method: TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

13.1 EUT Operation

Operating Environment:

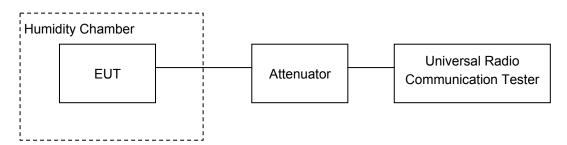
Temperature: 22.9 °C
Humidity: 52.0 % RH
Atmospheric Pressure: 101.3kPa

13.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



13.3 Test Result

Cellular Band (Part 22H)

Celidiai Barid (Fait 2211)							
	GSM 850 Test Frequency:836.6MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		5	0.0060	2.5			
40		8	0.0096	2.5			
30		5	0.0060	2.5			
20		10	0.0120	2.5			
10	3.7	18	0.0215	2.5			
0		12	0.0143	2.5			
-10		9	0.0108	2.5			
-20		19	0.0227	2.5			
-30		15	0.0179	2.5			
20	3.3	12	0.0143	2.5			
20	4.2	6	0.0072	2.5			

GPRS 850 Test Frequency:836.6MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		4	0.0048	2.5			
40		4	0.0048	2.5			
30		-1	-0.0012	2.5			
20		8	0.0096	2.5			
10	3.7	6	0.0072	2.5			
0		11	0.0131	2.5			
-10		3	0.0036	2.5			
-20		3	0.0036	2.5			
-30		12	0.0143	2.5			
20	3.3	12	0.0143	2.5			
20	4.2	8	0.0096	2.5			

PCS Band (Part 24E)

PCS Band (Part 24E)							
PCS 1900 Test Frequency:1880.0MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		27	0.0144	2.5			
40		22	0.0117	2.5			
30		33	0.0176	2.5			
20	3.7	25	0.0133	2.5			
10		23	0.0122	2.5			
0		25	0.0133	2.5			
-10		26	0.0138	2.5			
-20		24	0.0128	2.5			
-30		28	0.0149	2.5			
20	3.3	31	0.0165	2.5			
20	4.2	19	0.0101	2.5			

GPRS 1900 Test Frequency:1880.0MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		27	0.0144	2.5			
40		26	0.0138	2.5			
30		20	0.0106	2.5			
20		18	0.0096	2.5			
10	3.7	13	0.0069	2.5			
0		26	0.0138	2.5			
-10		13	0.0069	2.5			
-20		22	0.0117	2.5			
-30		18	0.0096	2.5			
20	3.3	25	0.0133	2.5			
20	4.2	27	0.0144	2.5			

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14 RF Exposure

Remark: refer to SAR test report: WTS16S0961760E

===== End of Report =====