TEST REPORT

Reference No. : WTS18S05112598-4E

FCC ID : 2AEPIKBOOK73G

Applicant.....: COLOMBIANA DE COMERCIO S.A.

Address : Car. 43E No 8-71, Medelin, Colombia

Manufacturer : Akstron Digital Technology Co., Ltd.

Address Akstron Building Block A6, Donghuan Industrial Park, No.293, Nanpu

Road, Shajing Street, BaoAn District, Shenzhen, Guangdong, China

Product.....: Tablet 3G

Model(s). : K-BOOK73G

Brand Name: Kalley

Standards..... FCC CFR47 Part 22 Subpart H: 2017 FCC CFR47 Part 24 Subpart E: 2017

Date of Receipt sample : 2018-06-04

Date of Test : 2018-06-05 to 2018-07-05

Date of Issue..... : 2018-07-06

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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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation) of USA, Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CEC(California energy efficiency), IC(Industry Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek(ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. Electro Magnetic Compatibility (EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

Test Facility:

A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA		FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe	A2LA (Certificate No.: 4243.01)	EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand	International Services	NTC	-
Singapore		IDA	-

Note:

- 1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.
- 2. IC Canada Registration No.: 7760A

B. TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of	Notify body number
TUV Rheinland	
Intertek	
TUV SUD	Optional.
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS18S05112 598-4E	2018-06-04	2018-06-05 to 2018-07- 05	2018-07-06	original	ı	Valid

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5 General Information

5.1 General Description of E.U.T.

Product: Tablet 3G

Model(s): K-BOOK73G

Model Description: N/A

GSM Band(s): GSM 850/900/1800/1900MHz

GPRS Class: 12

WCDMA Band(s): FDD Band II/V

LTE Band(s): N/A

Wi-Fi Specification: 2.4G-802.11b/g/n HT20/n HT40

Bluetooth Version: Bluetooth v4.0 with BLE

GPS: Support

NFC: N/A

Hardware Version: BND_MT8321_MG708_V1.0

Software Version: Full_tb8321p2_bsp-user.2018050612 release-keys

Highest frequency

(Exclude Radio):

1.25GHz

Storage Location: Internal Storage

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.

Note:

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

PCS/GPRS 1900: 1850~1910MHz WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz

WiFi:

802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz Bluetooth: 2402~2480MHz

Max. RF output power: GSM 850: 32.88dBm

PCS1900: 30.33dBm

WCDMA Band II: 22.72dBm WCDMA Band V: 22.79dBm

WiFi(2.4G): 9.65dBm Bluetooth: 2.00dBm Reference No.: WTS18S05112598-4E Page 8 of 64

Type of Modulation: GSM,GPRS: GMSK

WCDMA: BPSK, 16QAM

WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

Antenna installation: GSM/WCDMA: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

Antenna Gain: GSM 850: -1.3dBi

PCS1900: 0.4dBi

WCDMA Band II: 0.2dBi WCDMA Band V: -1.3dBi

WiFi(2.4G): 0.6dBi

Bluetooth: 0.6dBi

Ratings: Battery DC 3.7V, 2800mAh

DC 5V, 1.5A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.3A)

Adapter: Manufacturer: Dong Guan Bestgk Smart Technology Co.,Ltd

Model No.: K-BOOK73GG-K-BOOK73GN

Type of Emission: GSM850: 247KGXW, GPRS850: 246KGXW,

PCS1900: 252KGXW, GPRS1900: 249KGXW,

WCDMA850: 4M16F9W, WCDMA1900: 4M16F9W,

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
		826.4 MHz	4132
WCDMA Band V	WCDMA/HSUPA/HSDPA	836.6 MHz	4183
		846.6 MHz	4233
		1852.4MHz	9262
WCDMA Band II	WCDMA/HSUPA/HSDPA	1880.0MHz	9400
		1907.6MHz	9538
Remark: All mode(s) were tested and the worst data	was recorded.	

6 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
Baridwidtii	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 amission Rand 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	DACC
(SAR)	2.1093	PASS

7 Equipment Used during Test

7.1 Equipments List

Conducted Emissions Test Site 1#									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date			
1.	EMI Test Receiver	R&S	ESCI	100947	2017-09-12	2018-09-11			
2.	LISN	R&S	ENV216	101215	2017-09-12	2018-09-11			
3.	Cable	Тор	TYPE16(3.5M) -		2017-09-12	2018-09-11			
Conducted Emissions Test Site 2#									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date			
1.	EMI Test Receiver	R&S	ESCI	101155	2017-09-12	2018-09-11			
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11			
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	2017-09-12	2018-09-11			
4.	Cable	LARGE	RF300	-	2017-09-12	2018-09-11			
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	1#					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date			
1	Spectrum Analyzer	R&S	FSP	100091	2018-04-29	2019-04-28			
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2018-04-09	2019-04-08			
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2018-04-29	2019-04-28			
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	2017-09-12	2018-09-11			
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2018-04-29	2019-04-28			
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2018-04-29	2019-04-28			
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2018-04-13	2019-04-12			
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	2018-04-13	2019-04-12			
9	Universal Radio Communication Tester	R&S	CMU 200	112461	2018-04-13	2019-04-12			
10	Signal Generator	R&S	SMR20	100046	2017-09-12	2018-09-11			
11	Smart Antenna	SCHWARZBECK	HA08	-	2018-04-29	2019-04-28			
3m Ser	mi-anechoic Chamber	for Radiation Emis	ssions Test site	2#					
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date			

1	Test Receiver	R&S	ESCI	101296	2018-04-13	2019-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-09	2019-04-08
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	2018-04-13	2019-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2018-04-13	2019-04-12
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2017-09-12	2018-09-11
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11
li .	(9K-0GHZ)					
3.	Universal Radio Communication Tester	R&S	CMU 200	112461	2017-09-12	2018-09-11

7.2 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
Radiated Spurious Emissions	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence fa	actor:k=2

7.3 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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8 RF OUTPUT POWER

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

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

KDB971168 D01 v03

Test Mode: TX transmitting

8.1 EUT Operation

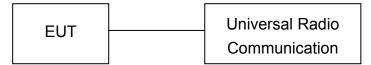
Operating Environment:

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

8.2 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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8.3 Test Result

Conducted Power

GSM - Burst Average Power (dBm)							
Band		GSM850			PCS1900		
Channel	128	128 190 251			661	810	
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8	
GSM	32.70	32.63	32.88	30.33	29.72	30.06	
GPRS (1 slot)	29.41	29.30	29.84	27.65	26.72	27.38	
GPRS (2 slots)	28.62	28.36	28.78	26.68	25.84	26.41	
GPRS (3 slots)	27.66	27.34	27.86	25.74	24.85	25.54	
GPRS (4 slots)	26.57	26.22	26.84	24.69	23.88	24.42	

WCDMA - Average Power (dBm)							
Band	Band WCDMA Band II WCDMA Band V			V			
Channel	9262	9400	9538	4132	4183	4233	
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	
RMC 12.2k	22.72	22.67	22.70	22.58	22.23	22.79	
HSDPA Subtest-1	21.70	21.60	21.73	21.49	21.13	21.83	
HSDPA Subtest-2	21.77	21.64	21.77	21.45	21.11	21.84	
HSDPA Subtest-3	21.53	21.56	21.56	21.39	21.15	21.75	
HSDPA Subtest-4	21.69	21.59	21.74	21.38	21.08	21.89	
HSUPA Subtest-1	21.71	21.61	21.74	21.52	21.10	21.78	
HSUPA Subtest-2	21.77	21.65	21.71	21.58	21.11	21.74	
HSUPA Subtest-3	21.69	21.68	21.66	21.49	21.15	21.77	
HSUPA Subtest-4	21.66	21.63	21.68	21.46	21.09	21.72	
HSUPA Subtest-5	21.74	21.59	21.64	21.54	21.14	21.69	

Radiated Power

ERP and EIRP

Cellular Band 850 (Part 22H)

		Turn	RX An		1) 000 (1	Substitut	,		Part	: 22H
Frequency	Receiver Reading	table			SG		Antenna	Absolute Level		
	rtodding	Angle	Height	Polar	Level	Cable	Gain	20101	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
	,			GSM 85	0 Chann	el 128	,	<u> </u>		
824.20	98.65	283	1.2	Н	31.62	0.20	0.00	31.42	38.45	-7.03
824.20	98.47	231	2.5	V	31.37	0.20	0.00	31.17	38.45	-7.28
				GSM 85	0 Chann	el 190				
836.60	98.62	188	2.1	Н	31.59	0.20	0.00	31.39	38.45	-7.06
836.60	98.86	330	1.1	V	31.76	0.20	0.00	31.56	38.45	-6.89
	GSM 850 Channel 251									
848.80	98.72	297	1.6	Н	31.69	0.20	0.00	31.49	38.45	-6.96
848.80	98.55	111	1.7	V	31.45	0.20	0.00	31.25	38.45	-7.20
			(GPRS 8	50 Chanr	nel 128				
824.20	98.63	227	1.3	Н	31.60	0.20	0.00	31.40	38.45	-7.05
824.20	98.49	286	2.1	V	31.39	0.20	0.00	31.19	38.45	-7.26
			(GPRS 8	50 Chanr	nel 190				
836.60	98.77	172	2.4	Н	31.74	0.20	0.00	31.54	38.45	-6.91
836.60	98.39	233	2.1	V	31.29	0.20	0.00	31.09	38.45	-7.36
	GPRS 850 Channel 251									
848.80	98.34	331	1.0	Н	31.31	0.20	0.00	31.11	38.45	-7.34
848.80	98.66	276	1.2	V	31.56	0.20	0.00	31.36	38.45	-7.09

Cellular Band 1900 (Part 24E)

	Cellular Band 1900 (Part 24E)									
Fraguena	Receiver	Turn	RX An	tenna		Substituted			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)
				PCS 19	00 Chanr	nel 512				
1850.20	93.85	122	2.2	Н	19.88	0.31	10.40	29.97	33	-3.03
1850.20	93.06	279	1.7	V	19.78	0.31	10.40	29.87	33	-3.13
				PCS 19	00 Chanr	nel 661				
1880.00	93.74	8	2.4	Н	19.89	0.31	10.40	29.98	33	-3.02
1880.00	92.99	98	1.3	V	19.87	0.31	10.40	29.96	33	-3.04
				PCS 19	00 Chanr	nel 810				
1909.80	93.48	304	1.6	Н	19.75	0.32	10.40	29.83	33	-3.17
1909.80	92.73	117	1.3	V	19.77	0.32	10.40	29.85	33	-3.15
			(SPRS 19	000 Chan	nel 512				
1850.20	93.41	275	1.1	Н	19.44	0.31	10.40	29.53	33	-3.47
1850.20	93.01	143	1.0	V	19.73	0.31	10.40	29.82	33	-3.18
			(SPRS 19	000 Chan	nel 661			T	
1880.00	93.40	325	1.7	Н	19.55	0.31	10.40	29.64	33	-3.36
1880.00	93.02	127	1.7	V	19.90	0.31	10.40	29.99	33	-3.01
	GPRS 1900 Channel 810									
1909.80	93.44	51	1.7	Н	19.71	0.32	10.40	29.79	33	-3.21
1909.80	92.76	72	1.6	V	19.80	0.32	10.40	29.88	33	-3.12

WCDMA Band V (Part 22H)

	WCDMA Band V (Part 22H)									
Frequency	Receiver	Turn table	RX An	tenna		Substitut	ed	Absolute	Part	: 22H
Frequency	Reading	Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
WCDMA Band V Voice Channel 4132										
826.40	90.25	1	2.5	Н	23.22	0.20	0.00	23.02	38.45	-15.43
826.40	92.56	87	2.0	V	25.46	0.20	0.00	25.26	38.45	-13.19
			WCDM	A Band	V Voice	Channel	4183			
836.60	89.21	97	2.0	Н	22.18	0.20	0.00	21.98	38.45	-16.47
836.60	92.05	50	1.2	V	24.95	0.20	0.00	24.75	38.45	-13.70
			WCDM	A Band	V Voice	Channel	4233			
846.60	90.12	138	1.2	Н	23.09	0.20	0.00	22.89	38.45	-15.56
846.60	92.36	168	2.4	V	25.26	0.20	0.00	25.06	38.45	-13.39
WCDMA Band V HSDPA Channel 4132										
826.40	88.63	307	1.9	Н	21.60	0.20	0.00	21.40	38.45	-17.05
826.40	88.68	214	1.5	V	21.58	0.20	0.00	21.38	38.45	-17.07
			WCDMA	N Band N	/ HSDPA	Channe	l 4183		T	
836.60	88.60	345	2.1	Н	21.57	0.20	0.00	21.37	38.45	-17.08
836.60	88.75	64	1.6	V	21.65	0.20	0.00	21.45	38.45	-17.00
			WCDMA	Band \	/ HSDPA	Channe	4233		T	
846.60	88.49	158	1.6	Н	21.46	0.20	0.00	21.26	38.45	-17.19
846.60	88.71	228	1.5	V	21.61	0.20	0.00	21.41	38.45	-17.04
		T	WCDMA	Band \	/ HSUPA	Channe	4132		T	
826.40	88.73	42	1.6	Н	21.70	0.20	0.00	21.50	38.45	-16.95
826.40	88.63	312	1.5	V	21.53	0.20	0.00	21.33	38.45	-17.12
	WCDMA Band V HSUPA Channel 4183									
836.60	88.75	273	1.1	Н	21.72	0.20	0.00	21.52	38.45	-16.93
836.60	88.69	51	1.3	V	21.59	0.20	0.00	21.39	38.45	-17.06
		r	WCDMA	Band \	/ HSUPA	Channe	4233		I	
846.60	88.66	150	1.8	Н	21.63	0.20	0.00	21.43	38.45	-17.02
846.60	88.80	274	1.3	V	21.70	0.20	0.00	21.50	38.45	-16.95

WCDMA Band II (Part 24E)

WCDMA Band II (Part 24E)										
Frequency	Receiver	Turn table	RX Ant	tenna		Substitut	ed	Absolute	Par	: 24E
ricquericy	Reading	Angle	Height	Polar	SG Level	Cable	Antenna Gain	Level	Limit	Margin
(MHz)	(dBµV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
WCDMA Band II Voice Channel 9262										
1852.40	86.74	50	1.9	Н	12.77	0.31	10.40	22.86	33	-10.14
1852.40	86.21	78	2.5	V	12.93	0.31	10.40	23.02	33	-9.98
		,	WCDM	A Band	II Voice (Channel	9400			
1880.00	86.80	241	1.4	Н	12.95	0.31	10.40	23.04	33	-9.96
1880.00	86.02	134	2.2	V	12.90	0.31	10.40	22.99	33	-10.01
			WCDM	A Band	II Voice (Channel	9538		T	
1907.60	86.82	190	1.0	Н	13.09	0.32	10.40	23.17	33	-9.83
1907.60	85.96	310	1.5	V	13.00	0.32	10.40	23.08	33	-9.92
	WCDMA Band II HSDPA Channel 9262									
1852.40	86.84	233	1.3	Н	12.87	0.31	10.40	22.96	33	-10.04
1852.40	85.86	342	1.5	V	12.58	0.31	10.40	22.67	33	-10.33
			WCDMA	Band II	HSDPA	Channe	1 9400			
1880.00	86.81	293	1.5	Н	12.96	0.31	10.40	23.05	33	-9.95
1880.00	85.75	132	1.6	V	12.63	0.31	10.40	22.72	33	-10.28
			WCDMA	Band II	HSDPA	Channe	1 9538		T	
1907.60	86.77	151	1.8	Н	13.04	0.32	10.40	23.12	33	-9.88
1907.60	85.70	310	1.4	V	12.74	0.32	10.40	22.82	33	-10.18
			WCDMA	Band I	I HSUPA	Channel	9262		T	
1852.40	86.74	235	1.5	Н	12.77	0.31	10.40	22.86	33	-10.14
1852.40	85.79	166	1.6	V	12.51	0.31	10.40	22.60	33	-10.40
	WCDMA Band II HSUPA Channel 9400									
1880.00	86.71	283	2.4	Н	12.86	0.31	10.40	22.95	33	-10.05
1880.00	85.78	310	1.7	V	12.66	0.31	10.40	22.75	33	-10.25
			WCDMA	A Band I	I HSUPA	Channel	9538			
1907.60	86.75	190	1.1	Н	13.02	0.32	10.40	23.10	33	-9.90
1907.60	85.83	102	1.8	V	12.87	0.32	10.40	22.95	33	-10.05

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9 Peak-to-Average Ratio

Test Requirement: 24.232 (d)

Test Method: N/A

Test Mode: TX transmitting

9.1 EUT Operation

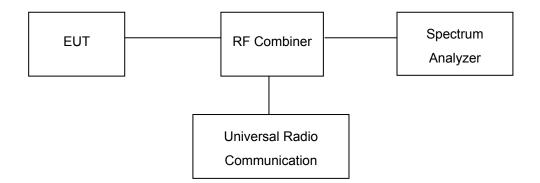
Operating Environment:

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

9.2 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%.



9.3 Test Result

Cellular Band (Part 24E)

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

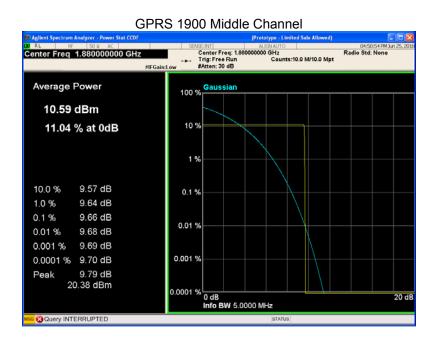
Mode	PCS 1900			G			
Channel	512 661 810			512	661	810	Limit
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	(dB)
Peak-to-Average Ratio (dB)	9.40	9.45	9.34	9.37	9.66	9.51	13

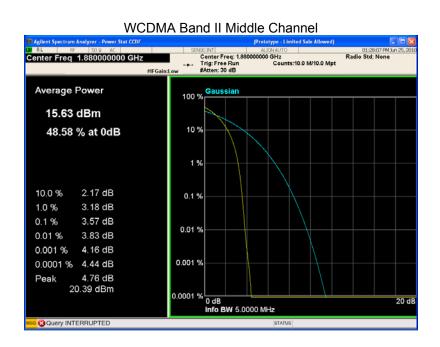
Mode	WC	WCDMA Band II				
Channel	9262	9400	9538	Limit		
Frequency (MHz)	1852.4	1880.0	1907.6	(dB)		
Peak-to-Average Ratio (dB)	2.91	3.57	3.24	13		

Test Plots (Part 24E)

PCS1900 Middle Channel







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10 BANDWIDTH

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

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

KDB971168 D01 v03

Test Mode: TX transmitting

10.1 EUT Operation

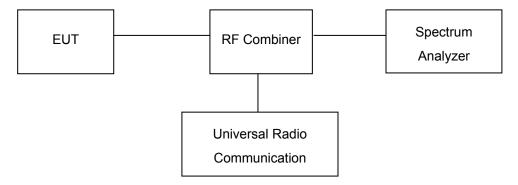
Operating Environment:

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

10.2 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 in the range of 1 to 5 % of the anticipated OBW (Cellular /PCS) and the 26 dB & 99%bandwidth was recorded.



10.3 Test Result

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

Cellular Band (Part 22H)

Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)
	128	824.2	246.89	312.00
GSM 850	190	836.6	246.90	312.00
	251	848.8	246.89	311.99
	128	824.2	245.70	315.99
GPRS 850	190	836.6	245.71	316.00
	251	848.8	245.70	315.99

Т	Test Mode		Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
		4132	826.4	4.13	4.65
	RMC12.2k	4183	836.6	4.15	4.66
		4233	846.6	4.14	4.65
	HSDPA(16QAM)	4132	826.4	4.14	4.66
WCDMA		4183	836.6	4.15	4.67
Band V		4233	846.6	4.15	4.66
		4132	826.4	4.15	4.65
	HSUPA(BPSK)	4183	836.6	4.16	4.66
		4233	846.6	4.15	4.65

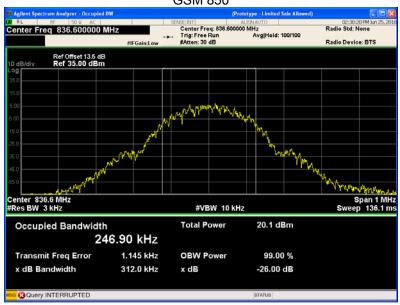
Cellular Band (Part 24E)

Celiulai Bariu (Fart 24E)							
Test Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth(kHz)	26 dB Emission Bandwidth(kHz)			
	512	1850.2	252.03	312.79			
PCS 1900	661	1880.0	252.04	312.80			
	810	1909.8	252.03	312.79			
	512	1850.2	249.23	311.70			
GPRS 1900	661	1880.0	249.24	311.70			
	810	1909.8	249.23	311.69			

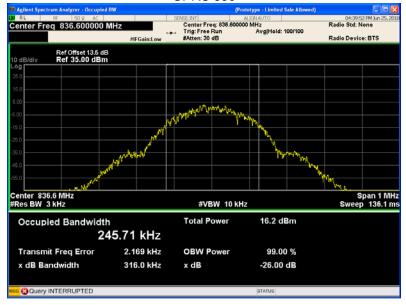
Test Mode		Channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
		9262	1852.4	4.16	4.67
	RMC12.2k	9400	1880.0	4.16	4.68
		9538	1907.6	4.15	4.67
	HSDPA(16QAM)	9262	1852.4	4.15	4.66
WCDMA		9400	1880.0	4.15	4.67
Band II		9538	1907.6	4.14	4.67
		9262	1852.4	4.16	4.66
	HSUPA(BPSK)	9400	1880.0	4.16	4.67
		9538	1907.6	4.16	4.66

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

GSM 850

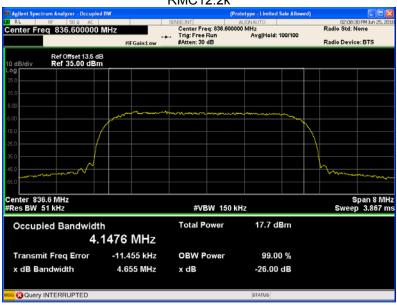


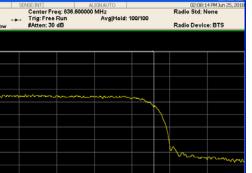
GPRS 850



WCDMA band V

RMC12.2k



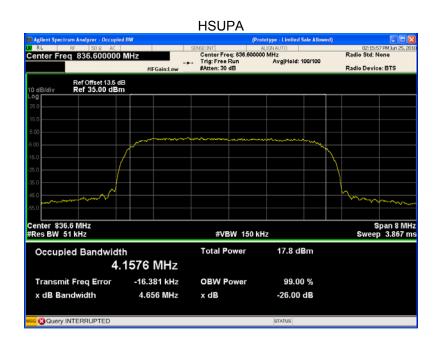




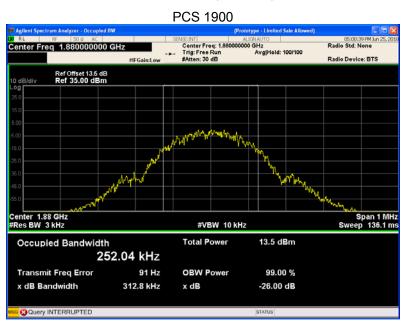
HSDPA

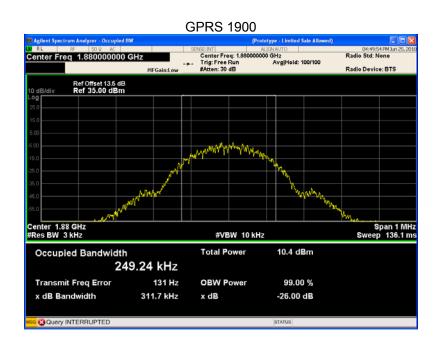
Center Freq 836.600000 MHz

Ref Offset 13.5 dB Ref 35.00 dBm



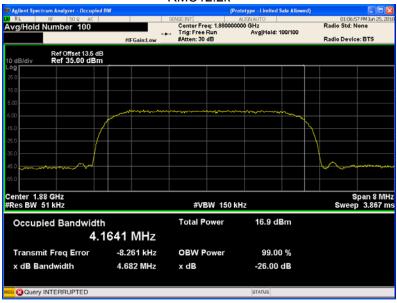
Cellular Band (Part 24E)

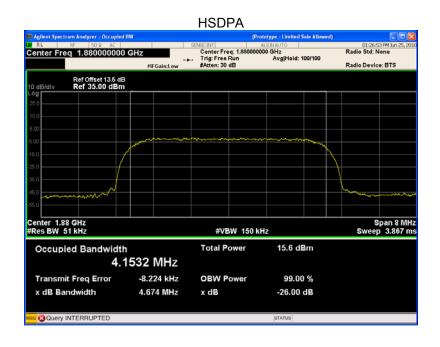


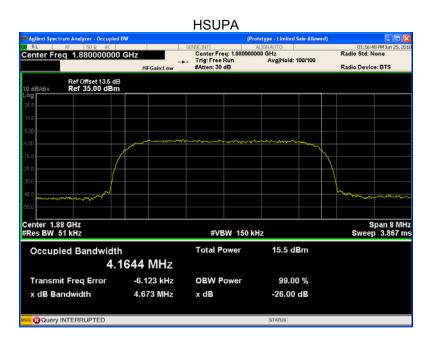


WCDMA band II

RMC12.2k







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11 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 v03

Test Mode: TX transmitting

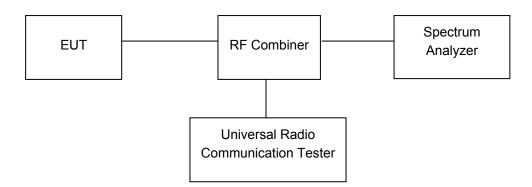
11.1 EUT Operation

Operating Environment:

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

11.2 Test Procedure

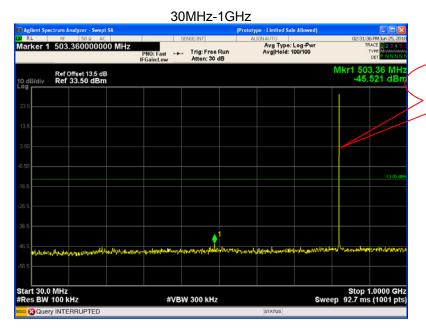
The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



11.3 Test Result

Remark: All test data were reported and only the worst case (middle channel mode) test graphs were showed in test report.

Cellular Band (Part 22H) GSM 850 - channel 190

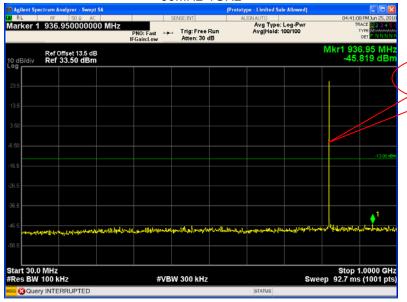


Fundamental



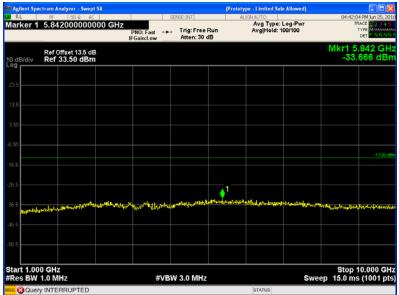
Cellular Band (Part 22H) GPRS 850 - channel 190





Fundamental

Above 1GHz



Cellular Band (Part 22H) WCDMA band V - channel 4183



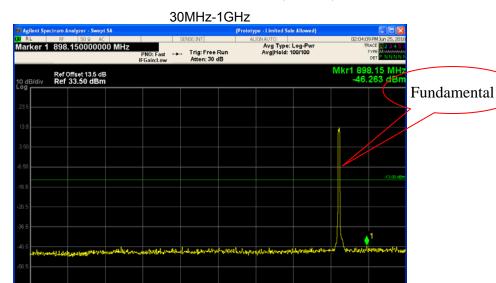






Start 30.0 MHz #Res BW 100 kHz

WCDMA band V - channel 4183 (HSDPA)



#VBW 300 kHz

Stop 1.0000 GHz Sweep 92.7 ms (1001 pts)



WCDMA band V - channel 4183 (HSUPA)



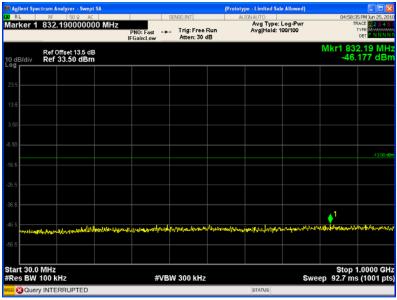


Above 1GHz



Cellular Band (Part 24E) PCS 1900 - channel 661

30MHz-1GHz





Cellular Band (Part 24E) GPRS 1900 - channel 661

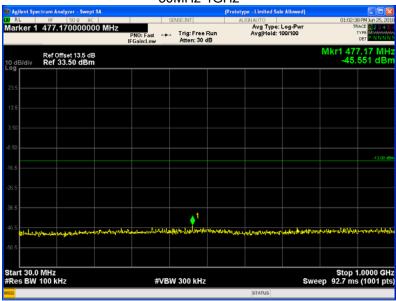
30MHz-1GHz



Above 1GHz | Section | Se

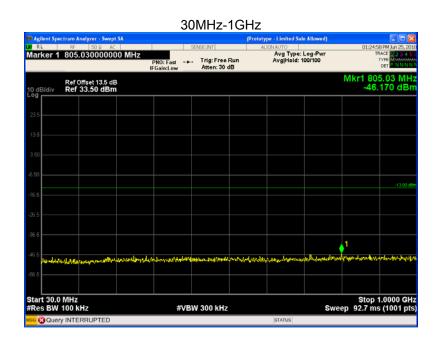
WCDMA band II - channel 9400

30MHz-1GHz



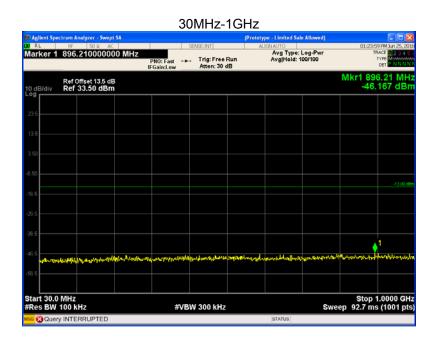
Above 1GHz | Agient Spectrum Analyzer - Serget 54 | Printings - 1 Initial Sale Allowed) | Company - 1

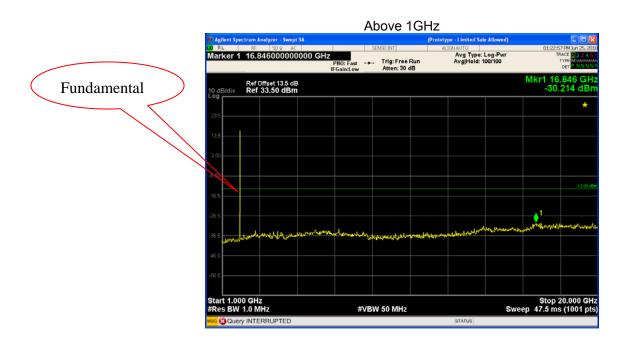
WCDMA band II - channel 9400 (HSDPA)





WCDMA band II - channel 9400 (HSUPA)





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12 SPURIOUS RADIATED EMISSIONS

Test Requirement: FCC Part 2.1053, 22.917, 24.238

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

KDB971168 D01 v03

Test Mode: TX transmitting

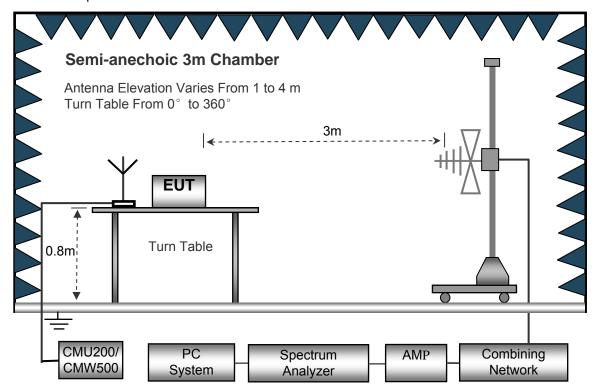
12.1 EUT Operation

Operating Environment:

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

12.2 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 AMF CMW500 Network System Analyzer

The test setup for emission measurement above 1 GHz.

12.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

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

Reference No.: WTS18S05112598-4E Page 43 of 64

12.4 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 Z position. So the data shown was the Z 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.

12.5 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)

F	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	l 128				
223.12	41.25	360	1.7	Н	-69.26	0.15	0.00	-69.41	-13.00	-56.41
223.12	43.92	163	1.5	V	-63.67	0.15	0.00	-63.82	-13.00	-50.82
1648.40	69.02	83	1.6	Н	-44.95	0.30	9.40	-35.85	-13.00	-22.85
1648.40	60.52	82	2.1	V	-53.01	0.30	9.40	-43.91	-13.00	-30.91
2472.60	61.50	334	1.5	Н	-52.50	0.43	10.60	-42.33	-13.00	-29.33
2472.60	47.09	123	1.3	V	-63.19	0.43	10.60	-53.02	-13.00	-40.02
			WC	DMA Bar	nd V Char	nel 4233	3	,		
223.12	40.61	242	2.1	Н	-69.90	0.15	0.00	-70.05	-13.00	-57.05
223.12	44.33	119	1.7	V	-63.26	0.15	0.00	-63.41	-13.00	-50.41
1652.80	60.29	124	1.6	Н	-53.68	0.30	9.40	-44.58	-13.00	-31.58
1652.80	52.27	242	1.6	V	-61.26	0.30	9.40	-52.16	-13.00	-39.16
2479.20	51.91	330	1.7	Н	-62.09	0.43	10.60	-51.92	-13.00	-38.92
2479.20	37.84	196	1.7	V	-72.44	0.43	10.60	-62.27	-13.00	-49.27

Cellular Band (Part 24E)

Celiulai Banu (Fait 24E)										
Francis	Receiver	Turn	RX Ar	ntenna	,	Substitut	ed	Absolute	Result	
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)
				PCS 190	0 Channe	el 512				
223.12	51.35	54	1.2	Н	-59.16	0.15	0.00	-59.31	-13.00	-46.31
223.12	37.30	356	2.2	V	-70.29	0.15	0.00	-70.44	-13.00	-57.44
3700.40	65.95	330	1.9	Н	-45.59	2.37	12.50	-35.46	-13.00	-22.46
3700.40	59.98	283	2.0	V	-49.83	2.37	12.50	-39.70	-13.00	-26.70
5550.60	53.58	186	2.0	Н	-56.03	2.86	12.90	-45.99	-13.00	-32.99
5550.60	44.73	171	1.1	V	-64.15	2.86	12.90	-54.11	-13.00	-41.11
			WC	DMA Bar	nd II Char	nel 9400)			
199.38	50.05	355	1.2	Н	-60.46	0.15	0.00	-60.61	-13.00	-47.61
199.38	39.93	354	2.0	V	-67.66	0.15	0.00	-67.81	-13.00	-54.81
3760.00	59.52	242	1.6	Н	-52.02	2.37	12.50	-41.89	-13.00	-28.89
3760.00	52.03	25	1.6	V	-57.78	2.37	12.50	-47.65	-13.00	-34.65
5640.00	46.61	160	1.4	Н	-63.00	2.86	12.90	-52.96	-13.00	-39.96
5640.00	38.40	252	1.3	V	-70.48	2.86	12.90	-60.44	-13.00	-47.44

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

2) Margin = Limit- Absolute Level

Reference No.: WTS18S05112598-4E Page 46 of 64

13 Band Edge Measurement

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

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

KDB971168 D01 v03

Test Mode: TX transmitting

13.1 EUT Operation

Operating Environment:

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

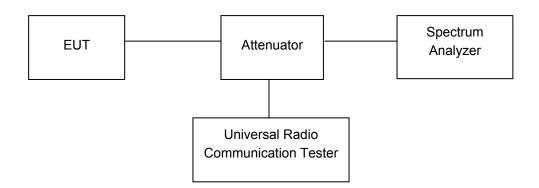
13.2 Test Procedure

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 TX 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 TX transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

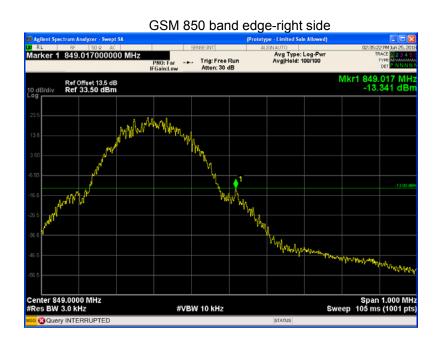
The center of the spectrum analyzer was set to block edge frequency

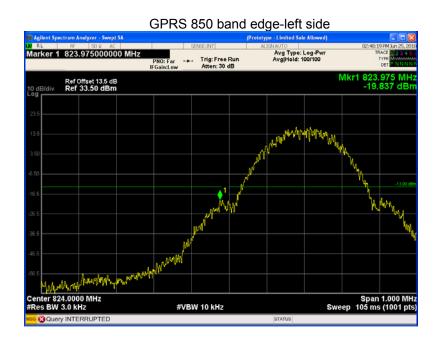


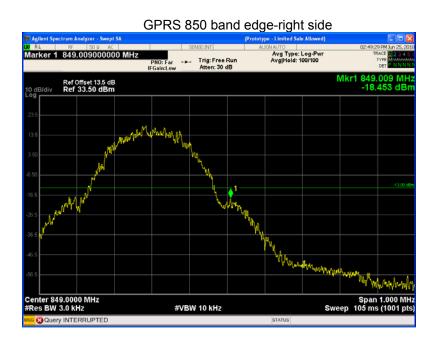
13.3 Test Result

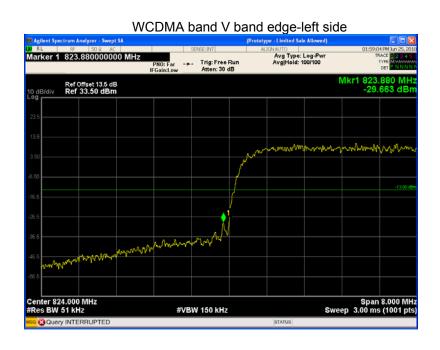
Test plots Cellular Band (Part 22H)

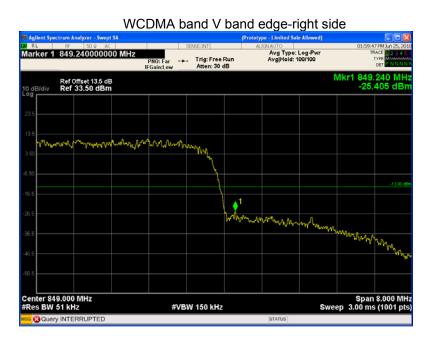


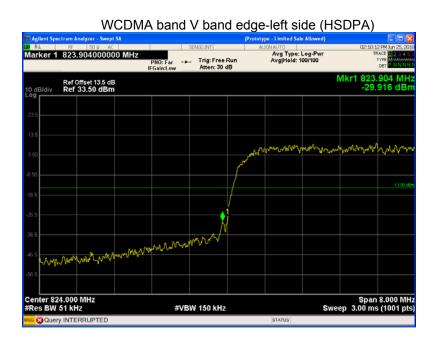


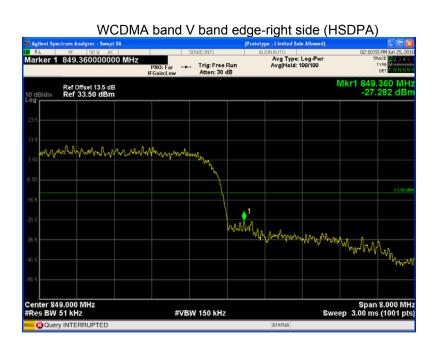


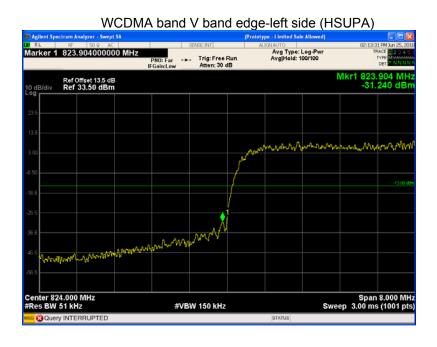


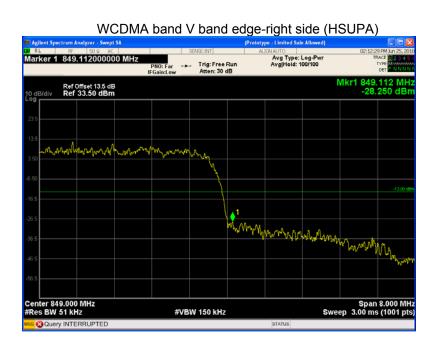






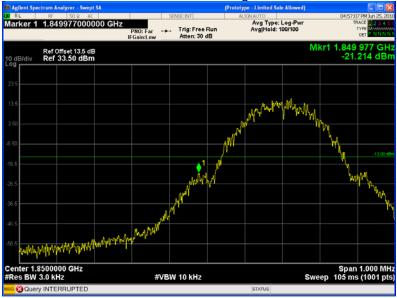






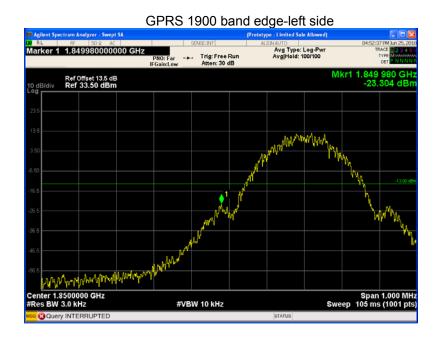
Cellular Band (Part 24E)

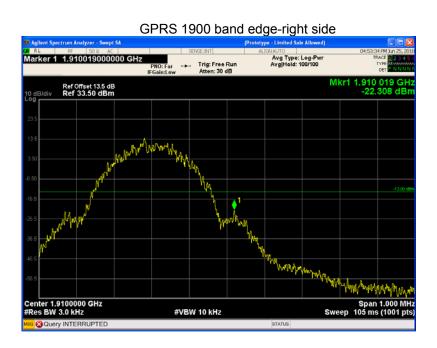


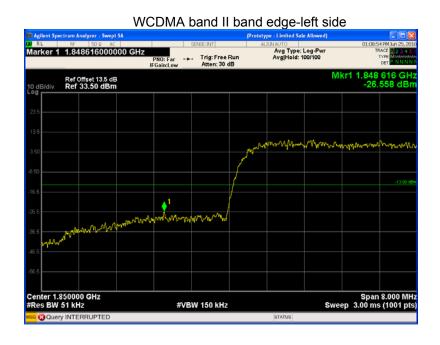


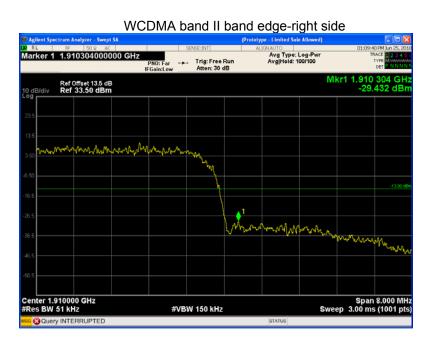
PCS 1900 band edge-right side

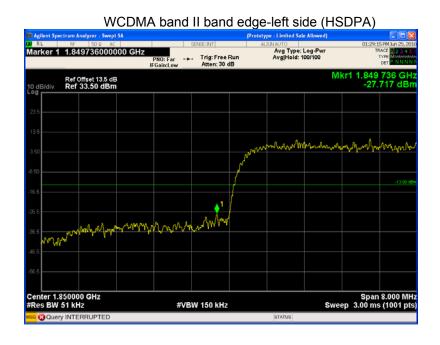


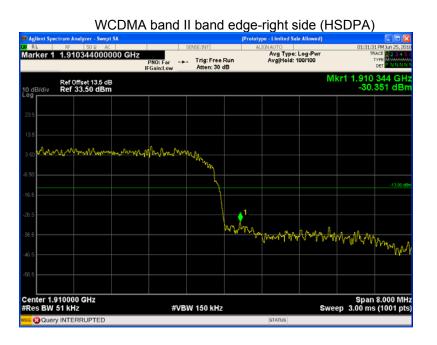


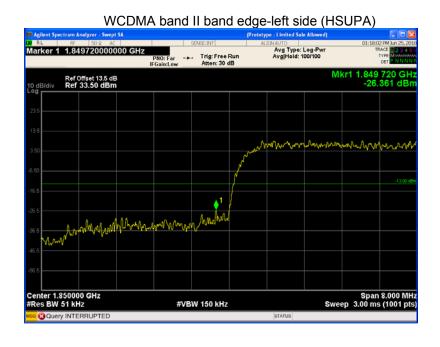


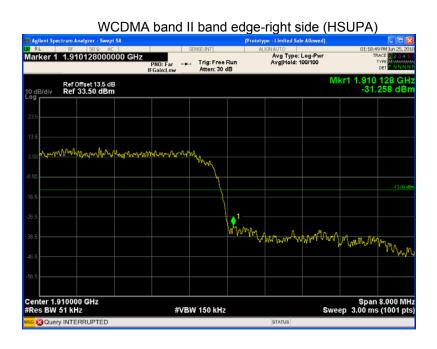












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14 FREQUENCY STABILITY

Test Requirement: FCC Part 2.1055, 22.355, 24.235

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

KDB971168 D01 v03

Test Mode: TX transmitting

14.1 EUT Operation

Operating Environment:

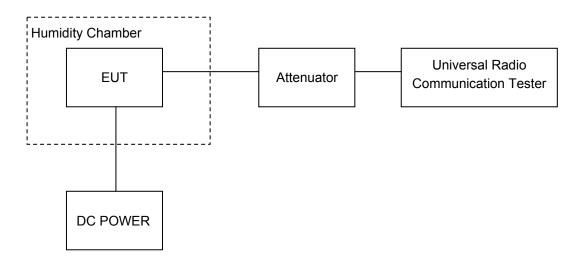
Temperature: 22.9 °C
Humidity: 52.0 % RH
Atmospheric Pressure: 101.3kPa

14.2 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.



14.3 Test Result

Cellular Band (Part 22H)

	GSM 850 Test Frequency:836.6MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		-20	-0.0239	2.5				
40		-11	-0.0131	2.5				
30		-16	-0.0191	2.5				
20		-15	-0.0179	2.5				
10	3.7	-23	-0.0275	2.5				
0		-11	-0.0131	2.5				
-10		-24	-0.0287	2.5				
-20		-16	-0.0191	2.5				
-30		-16	-0.0191	2.5				
20	3.3	-20	-0.0239	2.5				
20	4.2	-10	-0.0120	2.5				

GPRS 850 Test Frequency:836.6MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		-21	-0.0251	2.5			
40		-20	-0.0239	2.5			
30		-6	-0.0072	2.5			
20		-14	-0.0167	2.5			
10	3.7	-21	-0.0251	2.5			
0		-18	-0.0215	2.5			
-10		-18	-0.0215	2.5			
-20		-5	-0.0060	2.5			
-30		-17	-0.0203	2.5			
20	3.3	-16	-0.0191	2.5			
20	4.2	-20	-0.0239	2.5			

	WCDMA Band V Test Frequency:836.6MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		-9	-0.0108	2.5				
40		1	0.0012	2.5				
30		-9	-0.0108	2.5				
20		-1	-0.0012	2.5				
10	3.7	-3	-0.0036	2.5				
0		-5	-0.0060	2.5				
-10		-8	-0.0096	2.5				
-20		-1	-0.0012	2.5				
-30		-9	-0.0108	2.5				
20	3.3	1	0.0012	2.5				
20	4.2	6	0.0072	2.5				

	WCDMA Band V Test Frequency:836.6MHz(HSDPA)							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		3	0.0036	2.5				
40		8	0.0096	2.5				
30		7	0.0084	2.5				
20		0	0.0000	2.5				
10	3.7	-2	-0.0024	2.5				
0		5	0.0060	2.5				
-10		2	0.0024	2.5				
-20		-3	-0.0036	2.5				
-30		-5	-0.0060	2.5				
20	3.3	1	0.0012	2.5				
20	4.2	2	0.0024	2.5				

	WCDMA Band V Test Frequency:836.6MHz(HSUPA)							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		-12	-0.0143	2.5				
40		0	0.0000	2.5				
30		-11	-0.0131	2.5				
20		-3	-0.0036	2.5				
10	3.7	2	0.0024	2.5				
0		-12	-0.0143	2.5				
-10		-7	-0.0084	2.5				
-20		-5	-0.0060	2.5				
-30		1	0.0012	2.5				
20	3.3	3	0.0036	2.5				
20	4.2	6	0.0072	2.5				

PCS Band (Part 24E)

	PCS 1900 Test Frequency:1880.0MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		-12	-0.0064	2.5			
40		-24	-0.0128	2.5			
30		-11	-0.0059	2.5			
20		-18	-0.0096	2.5			
10	3.7	-13	-0.0069	2.5			
0		-15	-0.0080	2.5			
-10		-10	-0.0053	2.5			
-20		-24	-0.0128	2.5			
-30		-17	-0.0090	2.5			
20	3.3	-21	-0.0112	2.5			
20	4.2	-25	-0.0133	2.5			

	GPRS 1900 Test Frequency:1880.0MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		-15	-0.0080	2.5				
40		-21	-0.0112	2.5				
30		-29	-0.0154	2.5				
20		-22	-0.0117	2.5				
10	3.7	-26	-0.0138	2.5				
0		-19	-0.0101	2.5				
-10		-20	-0.0106	2.5				
-20		-21	-0.0112	2.5				
-30		-19	-0.0101	2.5				
20	3.3	-13	-0.0069	2.5				
20	4.2	-25	-0.0133	2.5				

	WCDMA Band II Test Frequency:1880.0MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		13	0.0155	2.5				
40		5	0.0060	2.5				
30		12	0.0143	2.5				
20		7	0.0084	2.5				
10	3.7	16	0.0191	2.5				
0		10	0.0120	2.5				
-10		6	0.0072	2.5				
-20		12	0.0143	2.5				
-30		8	0.0096	2.5				
20	3.3	-2	-0.0024	2.5				
20	4.2	3	0.0036	2.5				

	WCDMA Band II Test Frequency:1880.0MHz(HSDPA)							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		5	0.0060	2.5				
40		5	0.0060	2.5				
30		-3	-0.0036	2.5				
20		3	0.0036	2.5				
10	3.7	-6	-0.0072	2.5				
0		-4	-0.0048	2.5				
-10		4	0.0048	2.5				
-20		10	0.0120	2.5				
-30		6	0.0072	2.5				
20	3.3	3	0.0036	2.5				
20	4.2	9	0.0108	2.5				

WCDMA Band II Test Frequency:1880.0MHz(HSUPA)				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	3.7	9	0.0108	2.5
40		-1	-0.0012	2.5
30		4	0.0048	2.5
20		5	0.0060	2.5
10		13	0.0155	2.5
0		10	0.0120	2.5
-10		13	0.0155	2.5
-20		1	0.0012	2.5
-30		9	0.0108	2.5
20	3.3	-3	-0.0036	2.5
20	4.2	1	0.0012	2.5

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15 RF Exposure

Remark: refer to SAR test report: WTS18S05112598-1E.

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16 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS18S05112598E_Photo.

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