TEST REPORT

Reference No. WTS15S1240188-3E

FCC ID : 2ADTU-ELEMENT

Applicant Acegame S.A

Address...... Gorriti 4539 - C.A.B.A. - Buenos Aires - Argentina

Manufacturer SHENZHEN GOTRON ELECTRONIC CO.,LTD.

Address...... 518, 5F, R&D building, Tsinghua Hi-Tech park(North) Nanshan

district, Shenzhen 518057 P.R.China

Product Name..... : mobile phone

Model No. Zen Element 2nd Gen

Brand.....: X-VIEW

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

FCC CFR47 Part 24 Subpart E: 2015

FCC CFR47 Part 27: 2015

Date of Receipt sample Dec. 23, 2015

Date of Issue...... : Jan. 11, 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.

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RVICAD coved by:

2 Test Summary

Test Items	Test Requirement	Result			
	2.1046				
	22.913 (a)				
RF Output Power	24.232 (c)	PASS			
	27.50(c)				
	27.50(d)				
Peak-to-Average Ratio	24.232 (d)	PASS			
	2.1049				
	22.905				
Bandwidth	22.917	PASS			
	24.238				
	27.53(a)				
	2.1051				
Churique Emissions et Antonna Terminal	22.917 (a)	PASS			
Spurious Emissions at Antenna Terminal	24.238 (a)	PASS			
	27.53(h)				
	2.1053				
Field Strength of Spurious Radiation	22.917 (a)	PASS			
Field Strength of Spurious Radiation	24.238 (a)	FASS			
	27.53(h)				
	22.917 (a)				
Out of band emission, Band Edge	24.238 (a)	PASS			
	27.53(h)				
	2.1055				
	22.355				
Frequency Stability	24.235	PASS			
	27.5(h)				
	27.54				
Maximum Permissible Exposure	1.1307	PASS			
(SAR)	2.1093	FASS			

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4 General Information

4.1 General Description of E.U.T.

Product Name :mobile phone

Model No. :Zen Element 2nd Gen

Model Description : N/A

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

GPRS Class : 12

WCDMA Band(s) : FDD Band II/IV/V

LTE Bnad(s) : LTE Band 4

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

5G Band I: 802.11a/ n HT20/ n HT40

Bluetooth Version : Bluetooth v4.0 with BLE

GPS : Support

NFC : N/A

Hardware Version : S511 v1.2

Software Version : c228_v35m_gq3022BH_20151019

4.2 Details of E.U.T.

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

PCS/GPRS1900: 1850~1910MHz WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz WCDMA Band IV:1710~1755MHz LTE Band 4: 1710~1755MHz

WiFi:

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

802.11a/ n(HT20/40): 5150MHz~5250MHz

Bluetooth: 2402~2480MHz

Max. RF output power : GSM 850: 32.26dBm

PCS1900:29.77dBm

WCDMA Band II: 22.85dBm WCDMA Band IV: 22.56dBm WCDMA Band V: 22.58dBm LTE Band 4: 24.46dBm WiFi(2.4G): 8.27dBm

WiFi(5G): 7.73dBm Bluetooth: 2.48dBm

Type of Modulation : GSM,GPRS: GMSK

WCDMA: BPSK

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LTE: QPSK, 16QAM WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK,8DPSK

Antenna installation : GSM/WCDMA/LTE: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

Antenna Gain GSM 850: 0.5dBi

PCS1900: 0.8dBi

WCDMA Band II: 0.8dBi WCDMA Band IV: 0.5dBi WCDMA Band V: 0.7dBi LTE Band 4: 0.5dBi WiFi(2.4G): -1.1dBi WiF(5G)i: -1.0dBi

Bluetooth: -1.1dBi

Technical Data :Battery DC 3.8V, 2550mAh

DC 5V,1000mA, Charging form adapter

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

Adapter :Manufacture: SHENZHEN XINJIAXUN ELECTRONIC SO.,LTD.

Model: XJX-CE1000U

Type of Emission : GSM850: 245KGXW, PCS1900: 247KGXW

WCDMA850: 4M29F9W, WCDMA1900: 4M31F9W

WCDMA1700: 4M26F9W

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4.3 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
		1712.4MHz	1313
WCDMA Band IV	WCDMA/HSUPA/HSDPA	1732.6MHz	1413
		1752.6MHz	1512
Remark: All mode(s	s) were tested and the worst data	a was recorded.	

4.4 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.

5 Equipment Used during Test

5.1 Equipments List

	5.1 Equipments L					
RF Cor	nducted Test					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Aug.15,2015	Aug.14,2016
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Aug.15,2015	Aug.14,2016
3.	Humidity Chamber	GF	GTH-225-40-1P	IAA061213	Aug.15,2015	Aug.14,2016
4.	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2015	Apr.09,2016
3m Ser	mi-anechoic Chamber	for Radiated Emis	sions			
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2015	Sep.14,2016
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2015	Sep.14,2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.18,2015	Apr.17,2016
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.15,2015	Sep.14,2016
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.18,2015	Apr.17,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	669	Apr.18,2015	Apr.17,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Тор	1000MHz- 25GHz	EW02014-7	Apr.09,2015	Apr.08,2016
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Sep.15,2015	Sep.14,2016
10	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2015	Apr.09,2016
11	Signal Generator	R&S	SMR20	100046	Sep.15,2015	Sep.14,2016

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5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions tost	± 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)

5.3 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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6 RF OUTPUT POWER

Test Requirement: FCC Part 2.1046,22.913 (a),24.232 (c), 27.50(c.10); 27.50(d.4)

Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

6.1 EUT Operation

Operating Environment:

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

6.2 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 and ANSI C63.4 measurement procedure.
- 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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6.3 Test Result

Conducted Power

Conducted 1 Ower												
	GSM - Burst Average Power (dBm)											
Band	G	SM850		F	CS1900							
Channel	128	190	251	512	661	810						
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8						
GSM	32.26	32.23	32.25	29.77	29.03	28.55						
GPRS (1 slot)	32.25	32.21	32.20	29.53	28.76	28.28						
GPRS (2 slots)	31.35	31.34	31.33	28.97	28.44	28.06						
GPRS (3 slots)	29.58	29.56	29.56	27.21	27.03	26.81						
GPRS (4 slots)	28.81	28.78	28.77	26.39	26.28	26.15						

			WCDM	A - Avera	age Powe	er (dBm)			
Band	WC	DMA Bar	nd II	WC	DMA Bar	nd V	WC	DMA Band	IV
Channel	9262	9400	9538	4132	4183	4233	1313	1413	1512
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	1712.4	1732.6	1752.6
RMC 12.2k	22.85	22.36	22.29	22.58	22.33	22.44	22.56	22.17	22.54
HSDPA Subtest-1	21.82	21.23	21.15	21.49	21.29	21.49	21.58	21.15	21.54
HSDPA Subtest-2	22.05	21.35	21.22	21.52	21.36	21.52	21.63	21.32	21.45
HSDPA Subtest-3	21.76	21.26	20.94	21.67	21.13	21.26	21.42	20.89	21.29
HSDPA Subtest-4	21.90	21.08	21.27	21.46	21.25	21.49	21.71	21.21	21.36
HSUPA Subtest-1	21.84	21.21	21.15	21.47	21.31	21.43	21.59	21.16	21.51
HSUPA Subtest-2	21.73	21.13	21.24	21.59	21.29	21.55	21.48	21.07	21.63
HSUPA Subtest-3	22.11	21.47	21.30	21.46	21.46	21.37	21.66	21.26	21.74
HSUPA Subtest-4	21.89	21.34	21.24	21.66	21.19	21.52	21.39	21.92	21.34
HSUPA Subtest-5	21.96	21.60	21.07	21.39	21.26	21.29	21.48	21.17	21.50

Radiated Power(Measured at max. conducted power channel)

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	92.33	62	1.5	Н	25.30	0.20	0.00	25.10	38.45	-13.35
824.20	97.03	297	1.1	V	29.93	0.20	0.00	29.73	38.45	-8.72
GSM 850 Channel 190										
836.60	91.22	333	1.4	Н	24.19	0.20	0.00	23.99	38.45	-14.46
836.60	97.17	291	2.2	V	30.07	0.20	0.00	29.87	38.45	-8.58
			(GSM 85	0 Chann	el 251				
848.80	93.13	230	2.2	Н	26.10	0.20	0.00	25.90	38.45	-12.55
848.80	97.03	98	1.9	V	29.93	0.20	0.00	29.73	38.45	-8.72
			C	PRS 8	50 Chanr	nel 128				
824.20	92.25	47	1.6	Н	25.22	0.20	0.00	25.02	38.45	-13.43
824.20	97.82	248	2.0	V	30.72	0.20	0.00	30.52	38.45	-7.93
			C	PRS 8	50 Chanr	nel 190				
836.60	93.15	87	1.6	Н	26.12	0.20	0.00	25.92	38.45	-12.53
836.60	97.24	6	1.9	V	30.14	0.20	0.00	29.94	38.45	-8.51
			(SPRS 8	50 Chanr	nel 251				
848.80	93.42	315	1.8	Н	26.39	0.20	0.00	26.19	38.45	-12.26
848.80	98.00	196	1.9	V	30.90	0.20	0.00	30.70	38.45	-7.75

	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)
			WCDM	A Band \	V Voice (Channel	4132			
826.40	76.75	112	1.8	Н	9.72	0.20	0.00	9.52	38.45	-28.93
826.40	84.10	202	1.8	V	17.00	0.20	0.00	16.80	38.45	-21.65
			WCDM	A Band \	V Voice (Channel	4183			
836.60	79.40	3	1.1	Н	12.37	0.20	0.00	12.17	38.45	-26.28
836.60	84.56	237	1.5	V	17.46	0.20	0.00	17.26	38.45	-21.19
			WCDM	A Band \	V Voice (Channel	4233			
846.60	76.47	163	1.2	Н	9.44	0.20	0.00	9.24	38.45	-29.21
846.60	84.53	251	1.1	V	17.43	0.20	0.00	17.23	38.45	-21.22
			WCDMA	Band V	HSDPA	Channe	14132		T	
826.40	79.94	25	1.4	Н	12.91	0.20	0.00	12.71	38.45	-25.74
826.40	84.38	344	1.7	V	17.28	0.20	0.00	17.08	38.45	-21.37
	.	,	WCDMA	Band V	HSDPA	Channe	14183	,		
836.60	77.42	72	1.6	Н	10.39	0.20	0.00	10.19	38.45	-28.26
836.60	84.29	309	1.7	V	17.19	0.20	0.00	16.99	38.45	-21.46
	.	,	WCDMA	Band V	HSDPA	Channe	1 4233	,		
846.60	76.08	304	1.3	Н	9.05	0.20	0.00	8.85	38.45	-29.60
846.60	84.48	33	1.9	V	17.38	0.20	0.00	17.18	38.45	-21.27
			WCDMA	Band V	HSUPA	Channe	14132		T	
826.40	76.14	100	1.5	Н	9.11	0.20	0.00	8.91	38.45	-29.54
826.40	84.54	146	1.1	V	17.44	0.20	0.00	17.24	38.45	-21.21
			WCDMA	Band V	HSUPA	Channe	14183		T	
836.60	79.28	143	1.6	Н	12.25	0.20	0.00	12.05	38.45	-26.40
836.60	84.74	81	2.2	V	17.64	0.20	0.00	17.44	38.45	-21.01
			WCDMA	Band V	HSUPA	Channe	1 4233		T	
846.60	78.48	13	1.9	Н	11.45	0.20	0.00	11.25	38.45	-27.20
846.60	84.06	320	1.9	V	16.96	0.20	0.00	16.76	38.45	-21.69

Cellular Band (Part 24E)

				Cilulai D	anu (Par	(274)			I	1	
	Receiver	Turn	RX An	tenna		Substitut	red	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)	
	PCS 1900 Channel 512										
1850.20	86.08	65	1.5	Τ	12.11	0.31	10.40	22.20	33	-10.80	
1850.20	92.51	352	2.5	V	19.23	0.31	10.40	29.32	33	-3.68	
	PCS 1900 Channel 661										
1880.00	84.02	72	2.4	Н	10.17	0.31	10.40	20.26	33	-12.74	
1880.00	92.51	52	1.4	V	19.39	0.31	10.40	29.48	33	-3.52	
			F	PCS 190	00 Chanr	nel 810					
1909.80	85.36	159	2.2	Н	11.63	0.32	10.40	21.71	33	-11.29	
1909.80	92.33	194	2.3	V	19.37	0.32	10.40	29.45	33	-3.55	
			G	PRS 19	00 Chan	nel 512					
1850.20	84.80	346	2.0	Н	10.83	0.31	10.40	20.92	33	-12.08	
1850.20	92.77	270	1.5	V	19.49	0.31	10.40	29.58	33	-3.42	
			G	PRS 19	00 Chan	nel 661					
1880.00	85.11	61	1.8	Н	11.26	0.31	10.40	21.35	33	-11.65	
1880.00	92.05	238	1.5	V	18.93	0.31	10.40	29.02	33	-3.98	
			G	PRS 19	00 Chan	nel 810					
1909.80	86.06	222	2.1	Н	12.33	0.32	10.40	22.41	33	-10.59	
1909.80	92.32	90	2.3	V	19.36	0.32	10.40	29.44	33	-3.56	

	Receiver	Turn	RX An	tenna	,	Substitut	ed	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)
			WCDM	A Band	II Voice (Channel	9262			
1852.40	79.34	23	2.3	Η	5.37	0.31	10.40	15.46	33	-17.54
1852.40	84.54	196	1.6	V	11.26	0.31	10.40	21.35	33	-11.65
WCDMA Band II Voice Channel 9400										
1880.00	78.83	287	1.2	Н	4.98	0.31	10.40	15.07	33	-17.93
1880.00	84.44	178	2.1	>	11.32	0.31	10.40	21.41	33	-11.59
			WCDM	A Band	II Voice (Channel	9538			
1907.60	79.67	214	1.3	Η	5.94	0.32	10.40	16.02	33	-16.98
1907.60	84.26	87	2.4	V	11.30	0.32	10.40	21.38	33	-11.62
			WCDMA	Band II	HSDPA	Channe	l 9262			
1852.40	77.64	191	1.9	Ι	3.67	0.31	10.40	13.76	33	-19.24
1852.40	84.38	142	2.4	V	11.10	0.31	10.40	21.19	33	-11.81
			WCDMA	Band II	HSDPA	Channe	I 9400			
1880.00	76.48	293	2.0	Н	2.63	0.31	10.40	12.72	33	-20.28
1880.00	84.41	320	2.0	V	11.29	0.31	10.40	21.38	33	-11.62
			WCDMA	Band II	HSDPA	Channe	l 9538			
1907.60	76.30	86	1.2	Ι	2.57	0.32	10.40	12.65	33	-20.35
1907.60	84.19	64	2.3	>	11.23	0.32	10.40	21.31	33	-11.69
			WCDMA	Band II	HSUPA	Channel	9262			
1852.40	77.81	56	1.6	Τ	3.84	0.31	10.40	13.93	33	-19.07
1852.40	84.65	315	2.2	>	11.37	0.31	10.40	21.46	33	-11.54
			WCDMA	Band II	HSUPA	Channel	9400			
1880.00	76.02	223	1.2	Н	2.17	0.31	10.40	12.26	33	-20.74
1880.00	84.86	205	1.5	٧	11.74	0.31	10.40	21.83	33	-11.17
			WCDMA	Band II	HSUPA	Channel	9538			
1907.60	78.06	275	1.8	Н	4.33	0.32	10.40	14.41	33	-18.59
1907.60	84.81	277	1.8	V	11.85	0.32	10.40	21.93	33	-11.07

	Receiver	Turn	RX An	tenna	,	Substitut	ed	Absolute	Pai	rt 27
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)
			WCDMA	Band I	V Voice (Channel	1313			
1712.40	76.51	132	1.9	Н	2.98	0.30	9.40	12.08	30	-17.92
1712.40	84.22	87	1.6	V	10.74	0.30	9.40	19.84	30	-10.16
WCDMA Band IV Voice Channel 1413										
1732.60	78.54	307	1.7	Н	5.04	0.30	9.40	14.14	30	-15.86
1732.60	84.18	213	1.4	V	10.72	0.30	9.40	19.82	30	-10.18
WCDMA Band IV Voice Channel 1512										
1752.60	77.34	25	2.2	Н	3.85	0.30	9.40	12.95	30	-17.05
1752.60	84.29	128	1.1	V	10.84	0.30	9.40	19.94	30	-10.06
		,	WCDMA	Band IV	'HSDPA	Channe	l 1313		ı	1
1712.40	77.59	309	1.4	Н	4.06	0.30	9.40	13.16	30	-16.84
1712.40	84.52	20	2.1	V	11.04	0.30	9.40	20.14	30	-9.86
		,	WCDMA	Band IV	'HSDPA	Channe	l 1413		ı	1
1732.60	76.30	126	1.1	Н	2.80	0.30	9.40	11.90	30	-18.10
1732.60	84.18	32	2.0	V	10.72	0.30	9.40	19.82	30	-10.18
		,	WCDMA	Band IV	'HSDPA	Channe	l 1512		ı	1
1752.60	77.43	51	1.1	Н	3.94	0.30	9.40	13.04	30	-16.96
1752.60	84.73	6	1.2	V	11.28	0.30	9.40	20.38	30	-9.62
		,	WCDMA	Band IV	' HSUPA	Channe	l 1313	<u> </u>	1	1
1712.40	79.37	320	1.9	Н	5.84	0.30	9.40	14.94	30	-15.06
1712.40	84.07	251	1.3	V	10.59	0.30	9.40	19.69	30	-10.31
		,	WCDMA	Band IV	' HSUPA	Channe	l 1413	<u> </u>	1	
1732.60	78.47	352	1.8	Н	4.97	0.30	9.40	14.07	30	-15.93
1732.60	84.01	180	2.3	V	10.55	0.30	9.40	19.65	30	-10.35
		,	WCDMA	Band IV	' HSUPA	Channe	l 1512	ı	ı	1
1752.60	79.20	201	1.8	Н	5.71	0.30	9.40	14.81	30	-15.19
1752.60	84.39	332	2.3	V	10.94	0.30	9.40	20.04	30	-9.96

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7 Peak-to-Average Ratio

Test Requirement: 24.232 (d)

Test Method: N/A

Test Mode: Transmitting

7.1 EUT Operation

Operating Environment:

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

7.2 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%.



7.3 Test Result

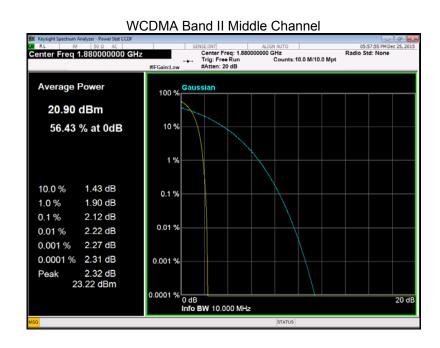
Cellular Band (Part 24E)

Mode	PCS 1900		WCDMA Band II			WCDMA Band IV				
Channel	512	661	810	9262	9400	9538	1313	1413	1512	Limit
Frequency (MHz)	1850.2	1880.0	1909.8	1852.4	1880.0	1907.6	1712.4	1732.6	1752.6	(dB)
Peak-to- Average Ratio (dB)	9.43	9.41	9.38	2.10	2.12	2.13	3.06	2.93	2.93	13

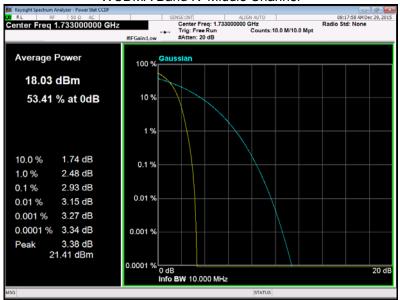
Test Plots (Part 24E)

PCS1900 Middle Channel









Reference No.: WTS15S1240188-3E Page 19 of 55

8 BANDWIDTH

Test Requirement: FCC Part 2.1049,22.917,22.905,24.238,27.53(a)

Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

8.1 EUT Operation

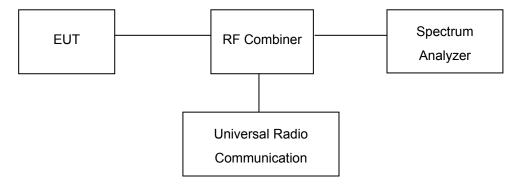
Operating Environment:

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

8.2 Test Procedure

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.



8.3 Test Result

Cellular Band (Part 22H)

Test Mode	Channel	Frequency	99% Occupied	26 dB Emission		
		(MHz)	Bandwidth(kHz)	Bandwidth(kHz)		
GSM 850	128	824.2	244.76	311.63		
	190	836.6	244.82	311.60		
	251	848.8	244.84	311.61		
GPRS 850	128	824.2	244.74	310.22		
	190	836.6	244.77	310.20		
	251	848.8	244.74	310.24		

Test Mode		Channel	Frequency	99% Occupied	26 dB Emission
			(MHz)	Bandwidth(MHz)	Bandwidth(MHz)
	RMC12.2k	4132	826.4	4.22	4.91
		4183	836.6	4.23	4.85
		4233	846.6	4.15	4.83
	HSDPA(16QAM)	4132	826.4	4.29	4.79
WCDMA		4183	836.6	4.22	4.83
Band V		4233	846.6	4.23	4.90
	HSUPA(BPSK)	4132	826.4	4.15	4.77
		4183	836.6	4.22	4.85
		4233	846.6	4.23	4.80

Cellular Band (Part 24E)

Test Mode	Channel	Frequency	99% Occupied	26 dB Emission
		(MHz)	Bandwidth(kHz)	Bandwidth(kHz)
PCS 1900	512	1850.2	247.37	314.02
	661	1880.0	247.38	314.00
	810	1909.8	247.41	314.04
GPRS 1900	512	1850.2	245.71	314.53
	661	1880.0	245.69	314.50
	810	1909.8	245.70	314.51

Test Mode		Channel	Frequency	99% Occupied	26 dB Emission
			(MHz)	Bandwidth(MHz)	Bandwidth(MHz)
	RMC12.2k	9262	1852.4	4.30	4.93
		9400	1880.0	4.25	4.89
		9538	1907.6	4.31	4.96
	HSDPA(16QAM)	9262	1852.4	4.18	4.86
WCDMA		9400	1880.0	4.19	4.81
Band II		9538	1907.6	4.26	4.84
	HSUPA(BPSK)	9262	1852.4	4.22	4.83
		9400	1880.0	4.22	4.81
		9538	1907.6	4.19	4.84

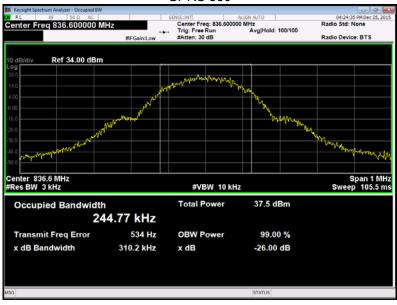
Test Mode		Channel	Frequency (MHz)	99% Occupied Bandwidth(MHz)	26 dB Emission Bandwidth(MHz)
	RMC12.2k	1313	1712.6	4.26	4.94
		1413	1732.6	4.21	4.87
		1512	1752.4	4.23	4.80
WCDMA Band IV	HSDPA	1313	1712.6	4.14	4.87
		1413	1732.6	4.21	4.87
		1512	1752.4	4.13	4.92
	HSUPA	1313	1712.6	4.26	4.92
		1413	1732.6	4.23	4.88
		1512	1752.4	4.22	4.93

Test Plots
Cellular Band (Part 22H)



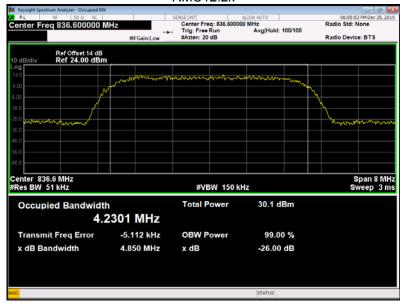


GPRS 850

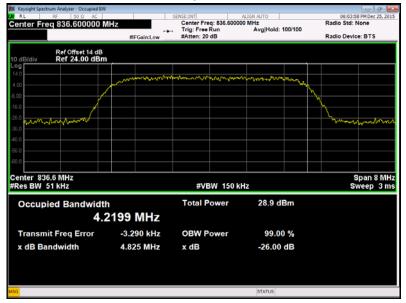


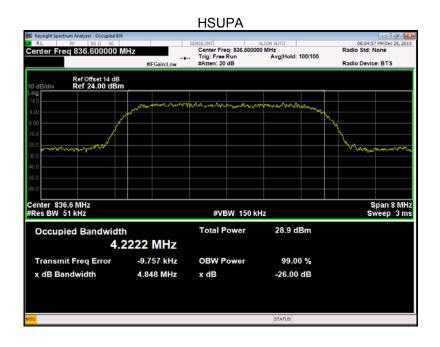
WCDMA band V

RMC12.2k



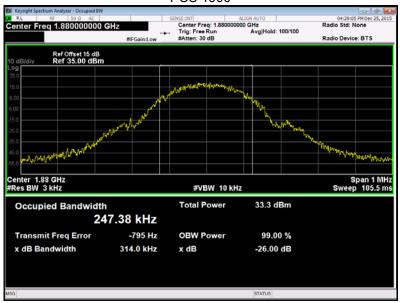
HSDPA

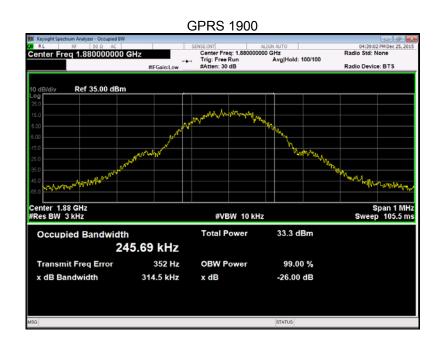




Cellular Band (Part 24E)

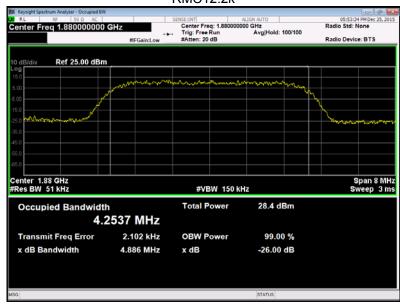


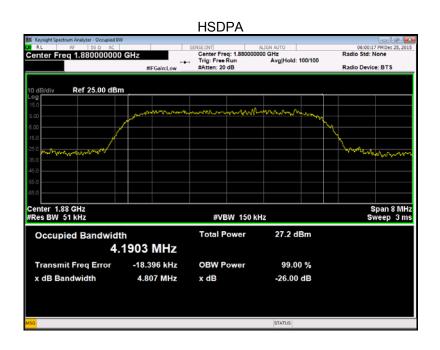


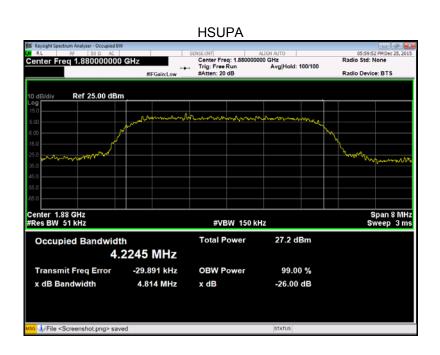


WCDMA band II

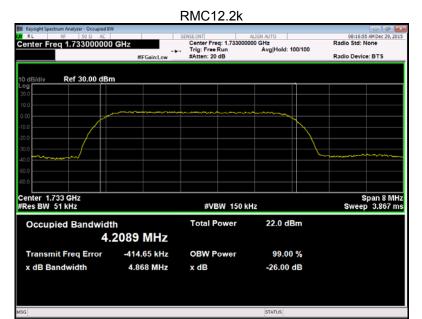
RMC12.2k

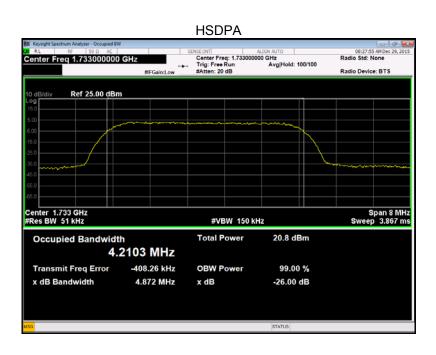


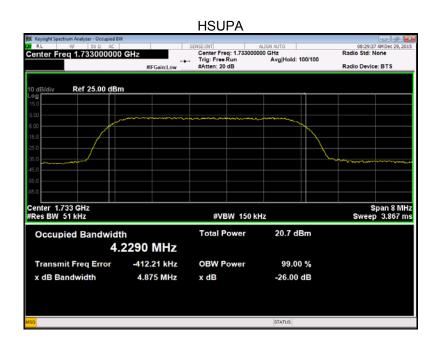




(Part 27) WCDMA band IV







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9 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a), 27.53(h)

Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

9.1 EUT Operation

Operating Environment:

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

9.2 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.

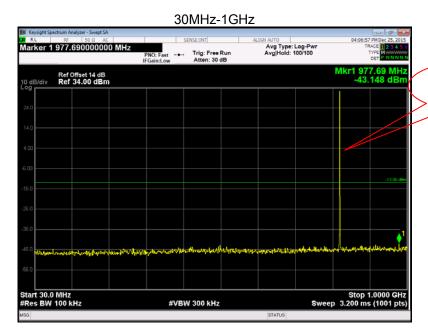


9.3 Test Result

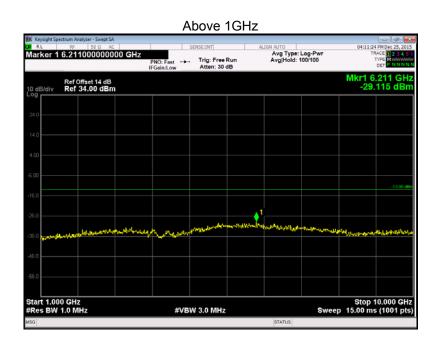
Remark: only the worst data were recorded.

Cellular Band (Part 22H)

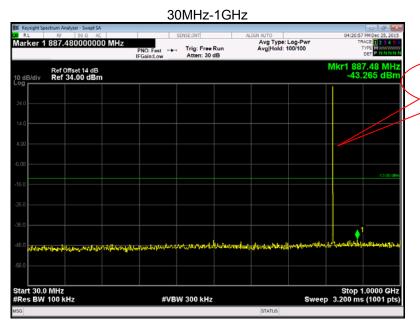
GSM 850 - channel 128



Fundamental



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

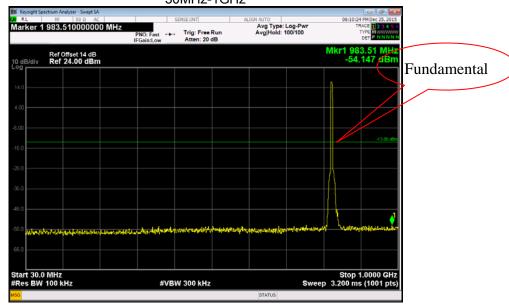


Fundamental

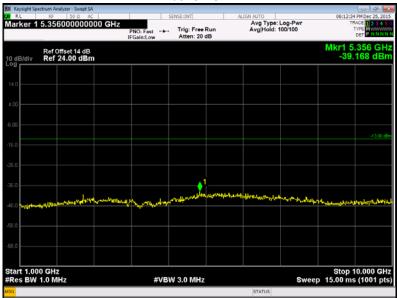
Above 1GHz | Kopsight Spectrum Analyzer Swept SA | SENSE_INIT | ALION AUTO | O4.266.44 PM Dec 25, 2015 | | Marker 1 5.8890000000000 GHz | PNO: Fast |

WCDMA band V - channel 4233



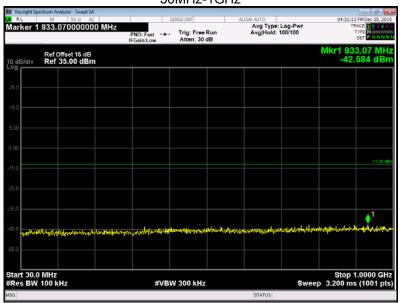


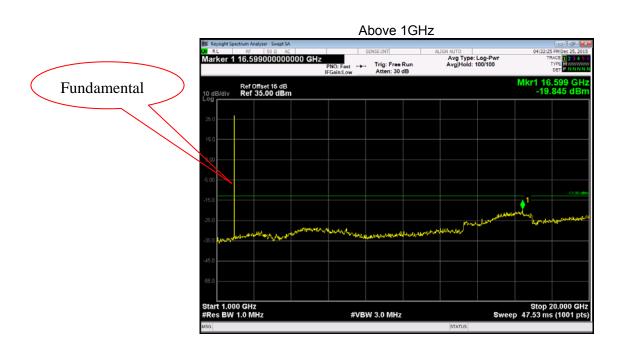
Above 1GHz



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

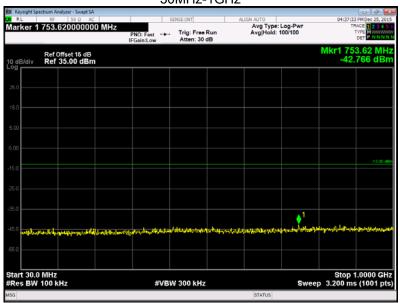
30MHz-1GHz





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

30MHz-1GHz

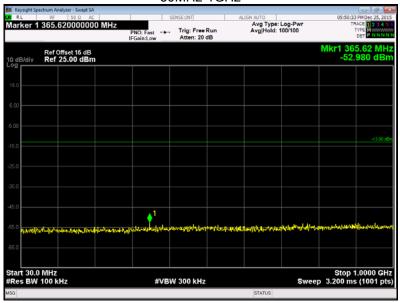


Above 1GHz



WCDMA band II - channel 9400

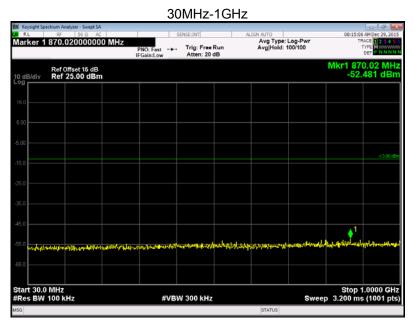


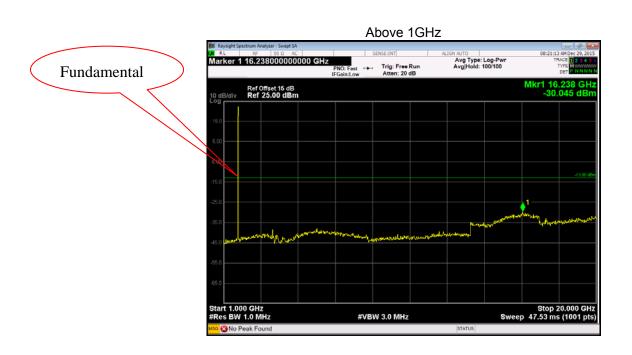


Above 1GHz



(Part 27)
WCDMA band IV - channel 1313





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10 SPURIOUS RADIATED EMISSIONS

Test Requirement: FCC Part 2.1053,22.917,24.238,27.53(h)
Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

10.1 EUT Operation

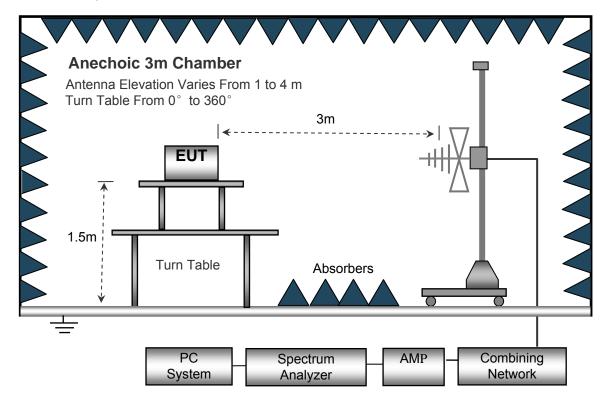
Operating Environment:

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

10.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

The test setup for emission measurement from 30 MHz to 1 GHz.



Anechoic 3m Chamber

Antenna Elevation Varies From 1 to 4 m

Turn Table From 0° to 360°

3m

Turn Table

Absorbers

PC
System
Analyzer

AMP
Combining
Network

The test setup for emission measurement above 1 GHz.

10.3 Spectrum Analyzer Setup

30MHz ~ 1GHz	2	
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.100kHz
	Video Bandwidth	.300kHz
Above 1GHz		
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.3MHz
	Detector	Ave.
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.10Hz

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10.4 Test Procedure

- 1. The EUT is placed on a turntable, which is 1.5m 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 = $10 \log (TXpwr in Watts/0.001)$ the absolute level Spurious attenuation limit in dB = $43 + 10 \log 10$ (power out in Watts)
- 8. Repeat above procedures until the measurements for all frequencies are completed.

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10.5 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)

Receiver	Turn	RX Antenna		Substituted			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)
				GSM 85	Channe	l 128				
201.33	41.43	143	2.0	Н	-69.08	0.15	0.00	-69.23	-13.00	-56.23
201.33	45.65	122	1.3	V	-61.94	0.15	0.00	-62.09	-13.00	-49.09
1648.40	65.47	151	1.5	Н	-48.50	0.30	9.40	-39.40	-13.00	-26.40
1648.40	58.32	270	2.0	V	-55.21	0.30	9.40	-46.11	-13.00	-33.11
2472.60	55.36	180	1.6	Н	-58.64	0.43	10.60	-48.47	-13.00	-35.47
2472.60	49.35	201	1.7	V	-60.93	0.43	10.60	-50.76	-13.00	-37.76
			WC	DMA Bar	nd V Char	nel 4233	3			
201.33	42.20	210	1.2	Н	-68.31	0.15	0.00	-68.46	-13.00	-55.46
201.33	46.17	232	1.1	V	-61.42	0.15	0.00	-61.57	-13.00	-48.57
1673.20	56.95	37	1.4	Н	-57.02	0.30	9.40	-47.92	-13.00	-34.92
1673.20	49.10	239	1.0	V	-64.43	0.30	9.40	-55.33	-13.00	-42.33
2509.80	46.68	276	1.1	Н	-67.32	0.43	10.60	-57.15	-13.00	-44.15
2509.80	41.22	57	1.6	V	-69.06	0.43	10.60	-58.89	-13.00	-45.89

Cellular Band (Part 24E/27)

Cellular Band (Part 24E/27)										
Eroguene	Receiver	Turn table	RX Ar	ntenna		Substitut	ed	Absolute	Res	sult
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)
				PCS 190	00 Channe	el 512				
201.33	45.78	157	2.0	Η	-64.73	0.15	0.00	-64.88	-13.00	-51.88
201.33	40.31	219	1.9	٧	-67.28	0.15	0.00	-67.43	-13.00	-54.43
3760.00	65.95	27	1.7	Η	-45.59	2.37	12.50	-35.46	-13.00	-22.46
3760.00	59.98	262	1.8	>	-49.83	2.37	12.50	-39.70	-13.00	-26.70
5640.00	53.58	340	1.8	Н	-56.03	2.86	12.90	-45.99	-13.00	-32.99
5640.00	44.73	61	1.5	V	-64.15	2.86	12.90	-54.11	-13.00	-41.11
			WC	DMA Ba	nd II Char	nnel 9400)			
201.33	45.82	295	1.5	Н	-64.69	0.15	0.00	-64.84	-13.00	-51.84
201.33	40.34	81	1.8	V	-67.25	0.15	0.00	-67.40	-13.00	-54.40
3815.20	58.62	54	1.4	Н	-52.92	2.37	12.50	-42.79	-13.00	-29.79
3815.20	53.01	218	1.9	V	-56.80	2.37	12.50	-46.67	-13.00	-33.67
5722.80	47.14	352	1.9	Н	-62.47	2.86	12.90	-52.43	-13.00	-39.43
5722.80	37.64	128	1.0	V	-71.24	2.86	12.90	-61.20	-13.00	-48.20
			WC	DMA Bar	nd IV Cha	nnel 131	3			
201.33	45.72	265	1.4	Н	-64.79	0.15	0.00	-64.94	-13.00	-51.94
201.33	37.78	254	1.8	٧	-69.81	0.15	0.00	-69.96	-13.00	-56.96
3815.20	58.48	281	1.8	Н	-53.06	2.37	12.50	-42.93	-13.00	-29.93
3815.20	52.02	9	1.4	V	-57.79	2.37	12.50	-47.66	-13.00	-34.66
5722.80	46.00	247	1.2	Н	-63.61	2.86	12.90	-53.57	-13.00	-40.57
5722.80	37.11	196	1.2	V	-71.77	2.86	12.90	-61.73	-13.00	-48.73

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

2) Margin = Limit- Absolute Level

Reference No.: WTS15S1240188-3E Page 42 of 55

11 Band Edge Measurement

Test Requirement: FCC Part 2.1051,22.917(a),24.238(a), 27.53(h)

Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

11.1 EUT Operation

Operating Environment:

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

11.2 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.

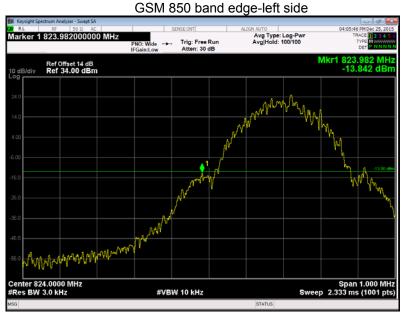
According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

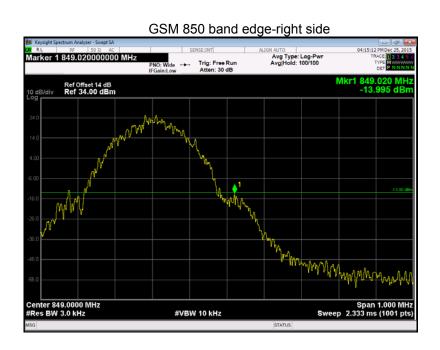
The center of the spectrum analyzer was set to block edge frequency

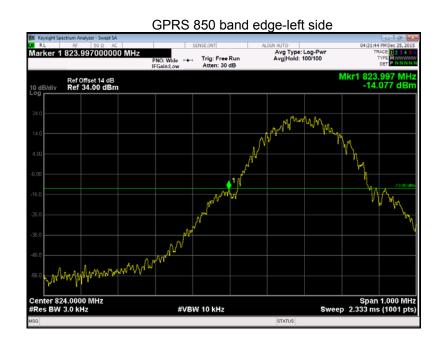


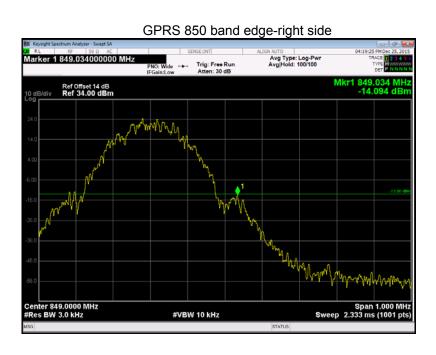
11.3 Test Result

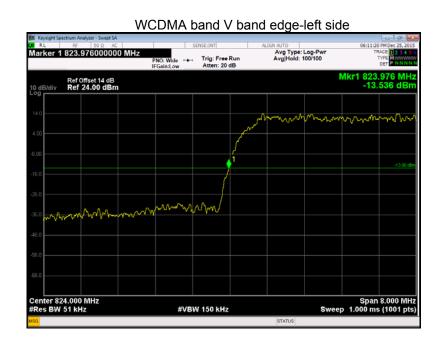
Test plots
Cellular Band (Part 22H)

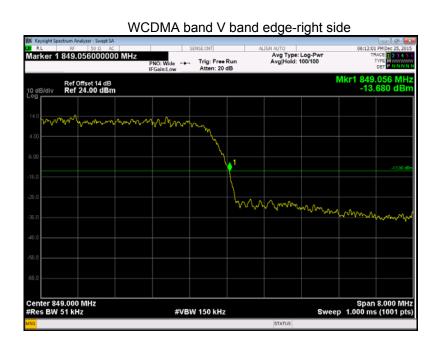








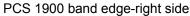




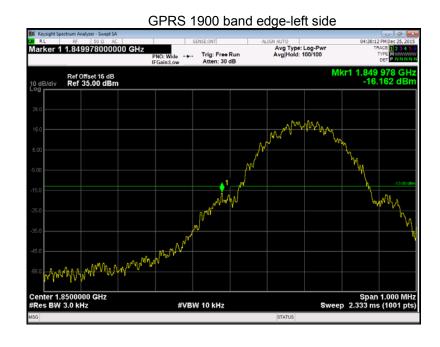
Cellular Band (Part 24E)

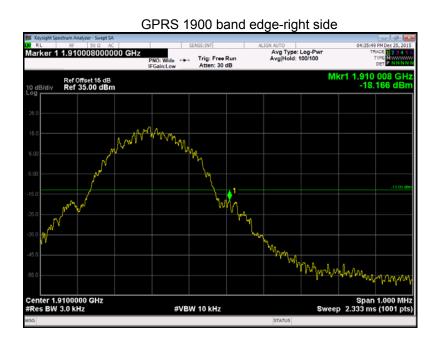
PCS 1900 band edge-left side

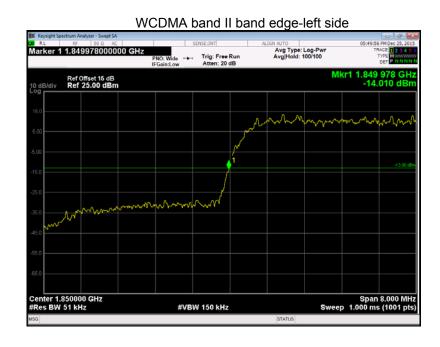


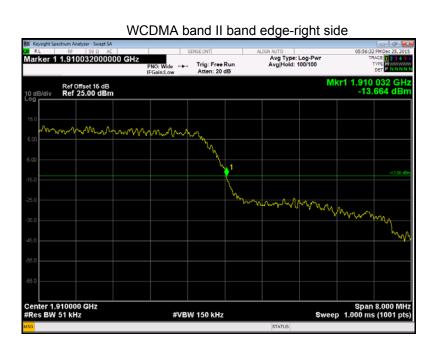




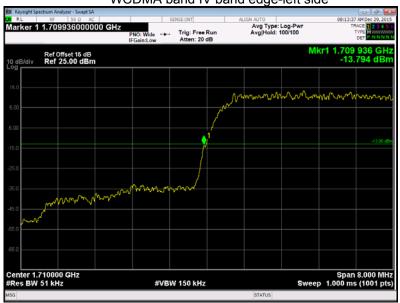


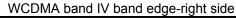






Part 27
WCDMA band IV band edge-left side







Reference No.: WTS15S1240188-3E Page 50 of 55

12 FREQUENCY STABILITY

Test Requirement: FCC Part 2.1055,22.355,24.235,27.5(h),27.54

Test Method: ANSI C63.4:2009, TIA/EIA-603-D:2010

KDB971168 D01 v02r02

Test Mode: Transmitting

12.1 EUT Operation

Operating Environment:

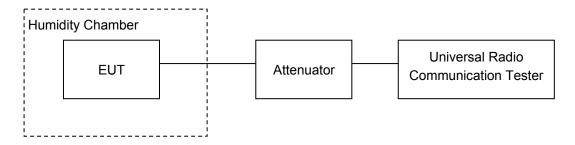
Temperature: 22.9 °C
Humidity: 52.0 % RH
Atmospheric Pressure: 101.3kPa

12.2 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.



12.3 Test Result

Cellular Band (Part 22H)

	OCHIOTO T. (15 account)							
	GSM 850 Test Frequency:836.6MHz							
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
50		1	0.0012	2.5				
40		-7	-0.0084	2.5				
30		-12	-0.0143	2.5				
20		-7	-0.0084	2.5				
10	3.7	-1	-0.0012	2.5				
0		-4	-0.0048	2.5				
-10		-3	-0.0036	2.5				
-20		-12	-0.0143	2.5				
-30		-5	-0.0060	2.5				
20	3.3	-12	-0.0143	2.5				
20	4.2	-15	-0.0179	2.5				

GPRS 850 Test Frequency:836.6MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
50		-8	-0.0096	2.5		
40		-2	-0.0024	2.5		
30		-8	-0.0096	2.5		
20		-6	-0.0072	2.5		
10	3.7	2	0.0024	2.5		
0		-11	-0.0131	2.5		
-10		-13	-0.0155	2.5		
-20		-2	-0.0024	2.5		
-30		2	0.0024	2.5		
20	3.3	-11	-0.0131	2.5		
20	4.2	-5	-0.0060	2.5		

WCDMA Band V Test Frequency:836.6MHz					
	VVCDIVIA DO	and v rest rrequency	y.oso.oivinz		
Temperature	Power Supply	Frequency Error	Frequency Error	Limit	
(℃)	(VDC)	(Hz)	(ppm)	(ppm)	
50		2	0.0024	2.5	
40		2	0.0024	2.5	
30		-5	-0.0060	2.5	
20		0	0.0000	2.5	
10	3.7	3	0.0036	2.5	
0		-2	-0.0024	2.5	
-10		9	0.0108	2.5	
-20		-8	-0.0096	2.5	
20		-9	-0.0108	2.5	
20	4.2	5	0.0060	2.5	
50	3.7	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		6	0.0032	2.5			
40		-3	-0.0016	2.5			
30		1	0.0005	2.5			
20		0	0.0000	2.5			
10	3.7	-2	-0.0011	2.5			
0		-1	-0.0005	2.5			
-10		1	0.0005	2.5			
-20		-2	-0.0011	2.5			
-30		-3	-0.0016	2.5			
20	3.3	-2	-0.0011	2.5			
20	4.2	4	0.0021	2.5			

	GPRS 1900 Test Frequency:1880.0MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		-6	-0.0032	2.5			
40		-7	-0.0037	2.5			
30		6	0.0032	2.5			
20		-2	-0.0011	2.5			
10	3.7	-5	-0.0027	2.5			
0		6	0.0032	2.5			
-10		2	0.0011	2.5			
-20		-5	-0.0027	2.5			
-30		6	0.0032	2.5			
20	3.3	-2	-0.0011	2.5			
20	4.2	2	0.0011	2.5			

WCDMA Band II Test Frequency:1880.0MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
50		2	0.0011	2.5		
40		3	0.0016	2.5		
30		5	0.0027	2.5		
20		1	0.0005	2.5		
10	3.7	4	0.0021	2.5		
0		3	0.0016	2.5		
-10		-1	-0.0005	2.5		
-20		5	0.0027	2.5		
-30		-5	-0.0027	2.5		
20	3.3	-4	-0.0021	2.5		
20	4.2	9	0.0048	2.5		

	WCDMA Band IV Test Frequency:1732.6MHz						
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)			
50		-9	-0.0052	2.5			
40		2	0.0012	2.5			
30		5	0.0029	2.5			
20		-2	-0.0012	2.5			
10	3.7	5	0.0029	2.5			
0		-3	-0.0017	2.5			
-10		2	0.0012	2.5			
-20		-9	-0.0052	2.5			
-30		4	0.0023	2.5			
20	3.3	-10	-0.0058	2.5			
20	4.2	-6	-0.0035	2.5			

Reference No.: WTS15S1240188-3E Page 55 of 55

13 RF Exposure

Remark: refer to SAR test report: WTS15S1240185E

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