

FCC Test Report

(PART 22)

Report No.: RF160705C22

FCC ID: V65E6830

Test Model: E6830

Received Date: Jul. 05, 2016

Test Date: Jul. 24, 2016 ~ Jul. 28, 2016

Issued Date: Aug. 05, 2016

Applicant: Kyocera Corporation c/o Kyocera International, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C)

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan

Hsien 333, Taiwan, R.O.C.





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Release Control Record

Issue No.	Description	Date Issued
RF160705C22	Original Release	Aug. 05, 2016



1 Certificate of Conformity

Product: PDA Phone

Brand: KYOCERA

Test Model: E6830

Sample Status: Identical Prototype

Applicant: Kyocera Corporation c/o Kyocera International, Inc.

Test Date: Jul. 24, 2016 ~ Jul. 28, 2016

Standards: FCC Part 22, Subpart H

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Gina Liu / Specialist

Approved by : , **Date:** Aug. 05, 2016

Stanley Wu / Assistant Manager



2 Summary of Test Results

	Applied Standard: FCC Part 22 & Part 2							
FCC Clause	Test Item	Result	Remarks					
2.1046 22.913 (a)	Effective Radiated Power Pass		Meet the requirement of limit.					
	Peak to Average Ratio	Pass	Meet the requirement of limit.					
2.1055 22.355	Frequency Stability	Pass	Meet the requirement of limit.					
2.1049	2.1049 Occupied Bandwidth F		Meet the requirement of limit.					
22.917	917 Band Edge Measurements Pass		Meet the requirement of limit.					
2.1051 22.917	Conducted Spurious Emissions		Meet the requirement of limit.					
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -23.37 dB at 2509.20 MHz.					

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Padiated Emissions up to 1 CHz	30 MHz ~ 200 MHz	2.93 dB
Radiated Emissions up to 1 GHZ	### Frequency ####################################	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
Radiated Emissions above 1 GHZ	18 GHz ~ 40 GHz	1.94 dB



2.2 Test Site and Instruments

Description & Manaufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Jan. 21, 2016	Jan. 20, 2017
Spectrum Analyzer Agilent	N9010A	MY52220314	Sep. 03, 2015	Sep. 02, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 04, 2016	Jan. 03, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Jan. 04, 2016	Jan. 03, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Jan. 07, 2016	Jan. 06, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier EMCI	EMC 012645	980115	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 184045	980116	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2015	Dec. 27, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 12, 2015	Oct. 11, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 12, 2015	Oct. 11, 2016
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 12, 2015	Oct. 11, 2016
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017
Signal generator KEYSIGHT	N5173B	MY53270724	Feb. 02, 2016	Feb. 01, 2017

Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 10.
- 3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
- 4. The FCC Site Registration No. is 690701.
- 5. The IC Site Registration No. is IC7450F-10.



3 General Information

3.1 General Description of EUT

Product	PDA Phone			
Brand	KYOCERA			
Test Model	E6830			
Status of EUT	Identical Prototype			
	5.0 or 9.0 Vdc (adapter)			
Power Supply Rating	5.0 Vdc (host equipment)			
	3.8 Vdc (Li-ion battery)			
	GSM/GPRS	GMSK		
	EDGE	GMSK, 8PSK		
Modulation Type	WCDMA	BPSK		
	CDMA	QPSK, OPQKS, HPSK		
	LTE	QPSK, 16QAM		
	GSM/GPRS/EDGE	824.2 ~ 848.8 MHz		
	WCDMA	826.4 ~ 846.6 MHz		
	CDMA	824.7 ~ 848.31 MHz		
	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz		
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz		
Fraguency Bongs	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz		
Frequency Range	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz		
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz		
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz		
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz		
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz		
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz		
	GSM/GPRS	728.12 mW		
	EDGE	181.64 mW		
	WCDMA	89.70 mW		
	CDMA	113.82 mW		
	LTE 5 (Channel Bandwidth: 1.4 MHz)	81.10 mW		
	LTE 5 (Channel Bandwidth: 3 MHz)	81.28 mW		
Max. ERP Power	LTE 5 (Channel Bandwidth: 5 MHz)	81.10 mW		
	LTE 5 (Channel Bandwidth: 10 MHz)	80.20 mW		
	LTE 26 (Channel Bandwidth: 1.4 MHz)	100.51 mW		
	LTE 26 (Channel Bandwidth: 3 MHz)	102.33 mW		
	LTE 26 (Channel Bandwidth: 5 MHz)	104.28 mW		
	LTE 26 (Channel Bandwidth: 10 MHz)	102.09 mW		
	LTE 26 (Channel Bandwidth: 15 MHz)	102.33 mW		



	GSM/GPRS	248KGXW
	EDGE	247KG7W
	WCDMA	4M15F9W
	CDMA	1M28F9W
	LTE 5 (Channel Bandwidth: 1.4 MHz)	1M09G7D
	LTE 5 (Channel Bandwidth: 3 MHz)	2M70G7D
Emission Designator	LTE 5 (Channel Bandwidth: 5 MHz)	4M49G7D
	LTE 5 (Channel Bandwidth: 10 MHz)	8M96G7D
	LTE 26 (Channel Bandwidth: 1.4 MHz)	1M09G7D
	LTE 26 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE 26 (Channel Bandwidth: 5 MHz)	4M49G7D
	LTE 26 (Channel Bandwidth: 10 MHz)	8M96W7D
	LTE 26 (Channel Bandwidth: 15 MHz)	13M5G7D
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The EUT contains following accessory devices.

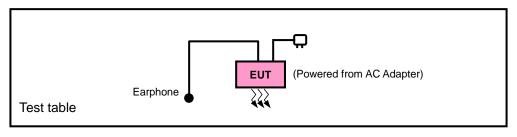
Product	Brand	Model	Description
Adapter	KYOCERA	SCP-49ADT	I/P: 100-240 Vac, 50/60 Hz, 200 mA O/P: 5.0 or 9.0 Vdc, 1800 mA
Battery	KYOCERA	RA SCP-67LBPS 3.8 Vdc, 3240 mAh	
USB Cable	KYOCERA	KYOCERA SCP-22SDC 1.0 m shielded cable w	

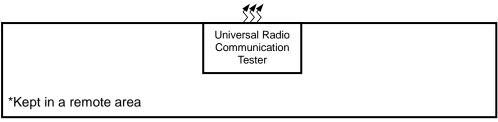
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



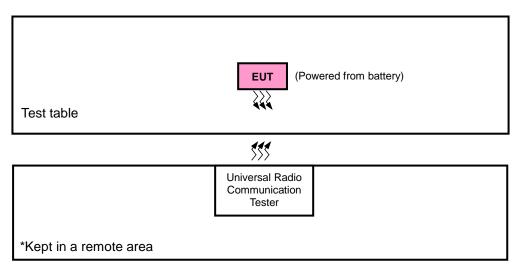
3.2 Configuration of System under Test

<Radiated Emission Test>





<E.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Earphone	GaLien Electron	HF-HB05D	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).



3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	ERP	Radiated Emission	
GSM	X-plane	X-axis	
EDGE	X-plane	X-axis	
WCDMA	X-plane	X-axis	
CDMA Y-plane		X-axis	
LTE Band 5	X-plane	X-axis	
LTE Band 26	X-plane	X-axis	

GSM

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	128 to 251	128, 189, 251	GSM, EDGE
-	Frequency Stability	128 to 251	189	GSM, EDGE
-	Occupied Bandwidth	128 to 251	128, 189, 251	GSM, EDGE
-	Band Edge	128 to 251	128, 251	GSM, EDGE
-	Peak to Average Ratio	128 to 251	128, 189, 251	GSM, EDGE
-	Condcudeted Emission	128 to 251	189	GSM, EDGE
-	Radiated Emission	128 to 251	189	GSM, EDGE

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	Frequency Stability	4132 to 4233	4182	WCDMA
-	Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
-	Band Edge	4132 to 4233	4132, 4233	WCDMA
-	Peak to Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
-	Condcudeted Emission	4132 to 4233	4182	WCDMA
-	Radiated Emission	4132 to 4233	4182	WCDMA



CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	1013 to 777	1013, 384, 777	1xRTT
-	Frequency Stability	1013 to 777	384	1xRTT
-	Occupied Bandwidth	1013 to 777	1013, 384, 777	1xRTT
-	Band Edge	1013 to 777	1013, 777	1xRTT
-	Peak to Average Ratio	1013 to 777	1013, 384, 777	1xRTT
-	Condcudeted Emission	1013 to 777	384	1xRTT
-	Radiated Emission	1013 to 777	384	1xRTT

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
		20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 2 RB Offset
	ERP	20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	1 RB / 7 RB Offset
-	ERP	20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		20407 to 20643	20525	1.4 MHz	QPSK	1 RB / 2 RB Offset
	Frequency	20415 to 20635	20525	3 MHz	QPSK	1 RB / 7 RB Offset
-	Stability	20425 to 20625	20525	5 MHz	QPSK	1 RB / 12 RB Offset
		20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset
		20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	Occupied	20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
-	Bandwidth	20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	00 10 MHz QPSK, 16QAM		50 RB / 0 RB Offset
		20407 to 20643	20407	1.4MHz	QPSK	1 RB / 0 RB Offset
			20407	1.41/11/12	QF3K	6 RB / 0 RB Offset
			20642	4 4 1 1 1 -	QPSK	1 RB / 5 RB Offset
			20643	1.4MHz	QPSK	6 RB / 0 RB Offset
		00445 1- 00005	20445	2 MH I=	ODCK	1 RB / 0 RB Offset
			20415	3 MHz	QPSK	15 RB / 0 RB Offset
		20415 to 20635	20025	2 MH I=	ODCK	1 RB / 14 RB Offset
			20635	3 MHz	QPSK	15 RB / 0 RB Offset
-	Band Edge		00.405	5.411	00014	1 RB / 0 RB Offset
		004054 00005	20425	5 MHz	QPSK	25 RB / 0 RB Offset
		20425 to 20625	22225	5.411	00014	1 RB / 24 RB Offset
			20625	5 MHz	QPSK	25 RB / 0 RB Offset
				40.541.1	0.001/	1 RB / 0 RB Offset
			20450	10 MHz	QPSK	50 RB / 0 RB Offset
		20450 to 20600				1 RB / 49 RB Offset
			20600	10 MHz	QPSK	50 RB / 0 RB Offset
		20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	Peak to	20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
-	Average Ratio	20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz QPSK, 16QA		50 RB / 0 RB Offset



EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode		
		20407 to 20643	20525	1.4 MHz	QPSK	1 RB / 2 RB Offset		
_	Conducted	20415 to 20635	20525	3 MHz	QPSK	1 RB / 7 RB Offset		
-	Emission	20425 to 20625	20525	5 MHz	QPSK	1 RB / 12 RB Offset		
				20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset
-	Radiated Emission	20450 to 20600	20525	10 MHz	QPSK	1 RB / 24 RB Offset		

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
		26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK, 16QAM	1 RB / 5 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM	1 RB / 14 RB Offset
-	ERP	26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
		26797 to 27033	26915	1.4 MHz	QPSK	1 RB / 5 RB Offset
	_	26805 to 27025	26915	3 MHz	QPSK	1 RB / 14 RB Offset
-	Frequency Stability	26815 to 27015	26915	5 MHz	QPSK	1 RB / 24 RB Offset
	Stability	26840 to 26990	26915	10 MHz	QPSK	1 RB / 49 RB Offset
		26865 to 26965	26915	15 MHz	QPSK	1 RB / 49 RB Offset
		26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
-	Occupied Bandwidth	26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		26797 to 27033	26797	1.4 MHz	QPSK	1 RB / 0 RB Offset
				1.4 IVIDZ	QPSK	6 RB / 0 RB Offset
			27033	1 4 MUI	QPSK	1 RB / 5 RB Offset
			27033	1.4 MHz	QPSK	6 RB / 0 RB Offset
			00005	2 MU-	QPSK	1 RB / 0 RB Offset
		26805 to 27025	26805	3 MHz	QPSK	15 RB / 0 RB Offset
			27025	3 MHz	QPSK	1 RB / 14 RB Offset
			27025	3 IVITZ	QPSK	15 RB / 0 RB Offset
			26815	5 MHz	QPSK	1 RB / 0 RB Offset
	Pand Edga	26815 to 27015	20013	3 IVITZ	QFSK	25 RB / 0 RB Offset
_	Band Edge	200151027015	27015	5 MHz	QPSK	1 RB / 24 RB Offset
			27015	3 IVITZ	QFSK	25 RB / 0 RB Offset
			26840	10 MHz	QPSK	1 RB / 0 RB Offset
		26840 to 26990	20040	10 MHZ	QFSK	50 RB / 0 RB Offset
		20040 10 20990	26990	10 MHz	QPSK	1 RB / 49 RB Offset
			20990	I U IVI⊓Z	QF3N	50 RB / 0 RB Offset
			26865	15 MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	20003	13 IVII IZ	QF SIN	75 RB / 0 RB Offset
		20003 10 20903	26965	15 MHz	QPSK	1 RB / 74 RB Offset
			20905	13 IVII IZ	QF SN	75 RB / 0 RB Offset



EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
		26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	Deelete	26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
-	Peak to Average Ratio	26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	Average Natio	26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		26797 to 27033	26915	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26805 to 27025	26915	3 MHz	QPSK	15 RB / 0 RB Offset
-	Conducted Emission	26815 to 27015	26915	5 MHz	QPSK	25 RB / 0 RB Offset
	EIIIISSIOII	26840 to 26990	26915	10 MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	26915	15 MHz	QPSK	25 RB / 0 RB Offset
-	Radiated Emission	26865 to 26965	26915	15 MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	3.8 Vdc	Karl Lee
Frequency Stability	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Occupied Bandwidth	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Band Edge	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Peak to Average Ratio	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Condcudeted Emission	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee



3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2
FCC 47 CFR Part 22
KDB 971168 D01 Power Meas License Digital Systems v02r02
ANSI/TIA/EIA-603-D 2010

Note: All test items have been performed and recorded as per the above standards.



4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, and 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15 dBi.

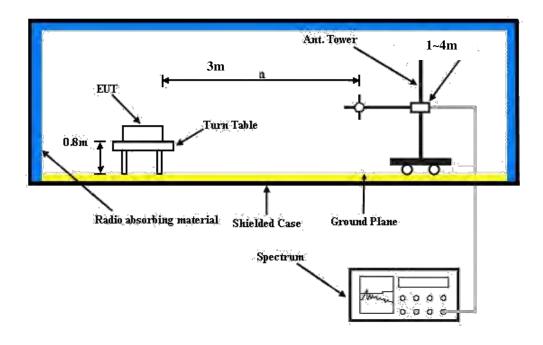
Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



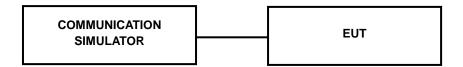
4.1.3 Test Setup

EIRP / ERP Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Conducted Power Measurement:





4.1.4 Test Results

Conducted Output Power (dBm)

Band		GSM850	
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.60	32.44	32.61
GPRS 8	32.59	32.43	32.60
GPRS 10	29.51	29.35	29.52
GPRS 11	27.62	27.46	27.63
GPRS 12	26.24	26.08	26.25
GPRS 30	32.57	32.41	32.58
GPRS 31	29.48	29.32	29.49
GPRS 32	27.60	27.44	27.61
GPRS 33	26.23	26.07	26.24
EDGE 8	26.64	26.48	26.65
EDGE 10	23.53	23.37	23.54
EDGE 11	21.72	21.56	21.73
EDGE 12	20.45	20.29	20.46
EDGE 30	26.62	26.46	26.63
EDGE 31	23.52	23.36	23.53
EDGE 32	21.70	21.54	21.71
EDGE 33	20.43	20.27	20.44

Band		WCDMA V	
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.85	23.68	23.89
HSDPA Subtest-1	22.86	22.69	22.90
HSDPA Subtest-2	22.80	22.63	22.84
HSDPA Subtest-3	22.36	22.19	22.40
HSDPA Subtest-4	22.34	22.17	22.38
HSUPA Subtest-1	22.82	22.65	22.86
HSUPA Subtest-2	20.85	20.68	20.89
HSUPA Subtest-3	21.74	21.57	21.78
HSUPA Subtest-4	20.80	20.63	20.84
HSUPA Subtest-5	22.81	22.64	22.85

Band	CDMA					
Channel	1013	384	777			
Frequency (MHz)	824.70	836.52	848.31			
RC1+SO55	24.36	24.51	24.61			
RC3+SO55	24.38	24.53	24.63			
RC3+SO32(+ F-SCH)	24.32	24.47	24.57			
RC3+SO32(+SCH)	24.29	24.44	24.54			
RC1+SO3, 1/8 Rate	24.21	24.36	24.46			
RTAP 153.6	24.11	24.26	24.36			
RETAP 4096	24.35	24.50	24.58			



				QPSK			16QAM			
Band / BW	RB Size	RB Offset	Low Ch 20407 824.7 MHz	Mid Ch 20525 836.5 MHz	High Ch 20643 848.3 MHz	3GPP MPR (dB)	Low Ch 20407 824.7 MHz	Mid Ch 20525 836.5 MHz	High Ch 20643 848.3 MHz	3GPP MPR (dB)
	1	0	23.50	23.62	23.41	0	22.42	22.54	22.33	1
	1	2	23.38	23.50	23.29	0	22.30	22.42	22.21	1
	1	5	23.32	23.44	23.23	0	22.24	22.36	22.15	1
5 / 1.4M	3	0	23.11	23.23	23.02	0	22.03	22.15	21.94	1
	3	1	23.07	23.19	22.98	0	21.99	22.11	21.90	1
	3	3	23.04	23.16	22.95	0	21.96	22.08	21.87	1
	6	0	22.26	22.38	22.17	1	21.18	21.30	21.09	2

				QPSK			16QAM			
Band /	RB	RB	Low Ch 20415	Mid Ch 20525	High Ch 20635	3GPP MPR	Low Ch 20415	Mid Ch 20525	High Ch 20635	3GPP MPR
BW	Size	Offset	825.5	836.5	847.5	(dB)	825.5	836.5	847.5	(dB)
			MHz	MHz	MHz		MHz	MHz	MHz	
	1	0	23.63	23.75	23.54	0	22.55	22.67	22.46	1
	1	7	23.51	23.63	23.42	0	22.43	22.55	22.34	1
	1	14	23.45	23.57	23.36	0	22.37	22.49	22.28	1
5 / 3M	8	0	22.44	22.56	22.35	1	21.36	21.48	21.27	2
	8	3	22.40	22.52	22.31	1	21.32	21.44	21.23	2
	8	7	22.37	22.49	22.28	1	21.29	21.41	21.20	2
	15	0	22.39	22.51	22.30	1	21.31	21.43	21.22	2

				QPSK				16QAM		
Band /	RB	RB Offset	Low Ch 20425	Mid Ch 20525	High Ch 20625	3GPP MPR	Low Ch 20425	Mid Ch 20525	High Ch 20625	3GPP MPR
BW	Size	Offset	826.5 MHz	836.5 MHz	846.5 MHz	(dB)	826.5 MHz	836.5 MHz	846.5 MHz	(dB)
	1	0	23.75	23.87	23.66	0	22.67	22.79	22.58	1
	1	12	23.63	23.75	23.54	0	22.55	22.67	22.46	1
	1	24	23.57	23.69	23.48	0	22.49	22.61	22.40	1
5 / 5M	12	0	22.56	22.68	22.47	1	21.48	21.60	21.39	2
	12	6	22.52	22.64	22.43	1	21.44	21.56	21.35	2
	12	13	22.49	22.61	22.40	1	21.41	21.53	21.32	2
	25	0	22.51	22.63	22.42	1	21.43	21.55	21.34	2

				QPSK				16QAM		
Band /	RB	RB	Low Ch 20450	Mid Ch 20525	High Ch 20600	3GPP MPR	Low Ch 20450	Mid Ch 20525	High Ch 20600	3GPP MPR
BW	Size	Offset	829.0 MHz	836.5 MHz	844.0 MHz	(dB)	829.0 MHz	836.5 MHz	844.0 MHz	(dB)
			IVITZ	IVITZ	IVITZ		IVITIZ	IVITZ	IVITZ	
	1	0	23.83	23.95	23.74	0	22.75	22.87	22.66	1
	1	24	23.71	23.83	23.62	0	22.63	22.75	22.54	1
	1	49	23.65	23.77	23.56	0	22.57	22.69	22.48	1
5 / 10M	25	0	22.64	22.76	22.55	1	21.56	21.68	21.47	2
	25	12	22.60	22.72	22.51	1	21.52	21.64	21.43	2
	25	25	22.57	22.69	22.48	1	21.49	21.61	21.40	2
	50	0	22.59	22.71	22.50	1	21.51	21.63	21.42	2



				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low Ch 26797 824.7 MHz	Mid Ch 26915 836.5 MHz	High Ch 27033 848.3 MHz	3GPP MPR (dB)	Low Ch 26797 824.7 MHz	Mid Ch 26915 836.5 MHz	High Ch 27033 848.3 MHz	3GPP MPR (dB)
	1	0	23.34	23.30	23.45	0	22.31	22.27	22.42	1
	1	2	23.28	23.24	23.39	0	22.25	22.21	22.36	1
	1	5	23.32	23.28	23.43	0	22.29	22.25	22.40	1
26 / 1.4M	3	0	23.10	23.06	23.21	0	22.07	22.03	22.18	1
	3	1	23.06	23.02	23.17	0	22.03	21.99	22.14	1
	3	3	23.05	23.01	23.16	0	22.02	21.98	22.13	1
	6	0	22.27	22.23	22.38	1	21.24	21.20	21.35	2

				QPSK				16QAM		
Band /	RB	RB	Low Ch 26805	Mid Ch 26915	High Ch 27025	3GPP MPR	Low Ch 26805	Mid Ch 26915	High Ch 27025	3GPP MPR
BW	Size	Offset	825.5	836.5	847.5	(dB)	825.5	836.5	847.5	(dB)
			MHz	MHz	MHz		MHz	MHz	MHz	
	1	0	23.48	23.44	23.59	0	22.45	22.41	22.56	1
	1	7	23.42	23.38	23.53	0	22.39	22.35	22.50	1
	1	14	23.46	23.42	23.57	0	22.43	22.39	22.54	1
26 / 3M	8	0	22.47	22.43	22.58	1	21.44	21.40	21.55	2
	8	3	22.43	22.39	22.54	1	21.40	21.36	21.51	2
	8	7	22.42	22.38	22.53	1	21.39	21.35	21.50	2
	15	0	22.41	22.37	22.52	1	21.38	21.34	21.49	2

				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low Ch 26815	Mid Ch 26915	High Ch 27015	3GPP MPR	Low Ch 26815	Mid Ch 26915	High Ch 27015	3GPP MPR
DVV	Size	Offset	826.5 MHz	836.5 MHz	846.5 MHz	(dB)	826.5 MHz	836.5 MHz	846.5 MHz	(dB)
	1	0	23.60	23.56	23.71	0	22.57	22.53	22.68	1
	1	12	23.54	23.50	23.65	0	22.51	22.47	22.62	1
	1	24	23.58	23.54	23.69	0	22.55	22.51	22.66	1
26 / 5M	12	0	22.59	22.55	22.70	1	21.56	21.52	21.67	2
	12	6	22.55	22.51	22.66	1	21.52	21.48	21.63	2
	12	13	22.54	22.50	22.65	1	21.51	21.47	21.62	2
	25	0	22.53	22.49	22.64	1	21.50	21.46	21.61	2

				QPSK				16QAM		
Band /	RB	RB	Low Ch 26840	Mid Ch 26915	High Ch 26990	3GPP MPR	Low Ch 26840	Mid Ch 26915	High Ch 26990	3GPP MPR
BW	Size	Offset	829.0	836.5	844.0	(dB)	829.0	836.5	844.0	(dB)
			MHz	MHz	MHz		MHz	MHz	MHz	
	1	0	23.69	23.65	23.80	0	22.66	22.62	22.77	1
	1	24	23.63	23.59	23.74	0	22.60	22.56	22.71	1
	1	49	23.67	23.63	23.78	0	22.64	22.60	22.75	1
26 / 10M	25	0	22.68	22.64	22.79	1	21.65	21.61	21.76	2
	25	12	22.64	22.60	22.75	1	21.61	21.57	21.72	2
	25	25	22.63	22.59	22.74	1	21.60	21.56	21.71	2
	50	0	22.62	22.58	22.73	1	21.59	21.55	21.70	2



				QPSK				16QAM		
Band / BW	RB Size	RB Offset	Low Ch 26865 831.5 MHz	Mid Ch 26915 836.5 MHz	High Ch 26965 841.5 MHz	3GPP MPR (dB)	Low Ch 26865 831.5 MHz	Mid Ch 26915 836.5 MHz	High Ch 26965 841.5 MHz	3GPP MPR (dB)
	1	0	23.81	23.77	23.92	0	22.78	22.74	22.89	1
	1	37	23.75	23.71	23.86	0	22.72	22.68	22.83	1
	1	74	23.79	23.75	23.90	0	22.76	22.72	22.87	1
26 / 15M	36	0	22.80	22.76	22.91	1	21.77	21.73	21.88	2
	36	19	22.76	22.72	22.87	1	21.73	21.69	21.84	2
	36	39	22.75	22.71	22.86	1	21.72	21.68	21.83	2
	75	0	22.74	22.70	22.85	1	21.71	21.67	21.82	2



ERP Power (dBm)

	GSM												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)						
	128	824.2	-0.55	31.208	28.51	709.25							
	189	836.4	-0.63	31.3	28.52	711.21	Н						
X	251	848.8	-0.45	31.222	28.62	728.12							
^	128	824.2	-5.83	31.504	23.52	225.11							
	189	836.4	-5.44	31.117	23.53	225.27	V						
	251	848.8	-6.18	31.922	23.59	228.67							

				EDGE			
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
	128	824.2	-6.54	31.208	22.52	178.57	
	189	836.4	-6.59	31.3	22.56	180.30	Н
X	251	848.8	-6.48	31.222	22.59	181.64	
_ ^	128	824.2	-11.79	31.504	17.56	57.07	
	189	836.4	-11.36	31.117	17.61	57.64	V
	251	848.8	-12.16	31.922	17.61	57.70	

	WCDMA												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)						
	4132	826.4	-9.53	31.208	19.53	89.70							
	4182	836.4	-9.66	31.3	19.49	88.92	Н						
l x	4233	846.6	-9.55	31.222	19.52	89.58							
_ ^	4132	826.4	-14.82	31.504	14.53	28.41							
	4182	836.4	-14.38	31.117	14.59	28.75	V						
	4233	846.6	-15.34	31.922	14.43	27.75							



				CDMA			
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
	1013	824.7	-8.53	31.208	20.53	112.93	
	384	836.52	-8.59	31.3	20.56	113.76	Н
	777	848.31	-8.51	31.222	20.56	113.82	
i i	1013	824.7	-13.76	31.504	15.59	36.26	
	384	836.52	-13.43	31.117	15.54	35.78	V
	777	848.31	-14.20	31.922	15.57	36.07	

				LTE Band 5			
		(Channel Bai	ndwidth: 1.4 MHz	z / QPSK		
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
	20407	824.7	-10.01	31.208	19.05	80.32	
	20525	836.5	-10.06	31.3	19.09	81.10	Н
X	20643	848.3	-10.03	31.222	19.04	80.20	
^	20407	824.7	-15.26	31.504	14.09	25.67	
	20525	836.5	-14.91	31.117	14.06	25.45	V
	20643	848.3	-15.72	31.922	14.05	25.42	
		C	hannel Ban	dwidth: 1.4 MHz	/ 16QAM		
	20407	824.7	-11.06	31.208	18.00	63.07	
	20525	836.5	-11.05	31.3	18.10	64.57	Н
V	20643	848.3	-11.00	31.222	18.07	64.15	
Х	20407	824.7	-16.25	31.504	13.10	20.44	
	20525	836.5	-15.96	31.117	13.01	19.98	V
	20643	848.3	-16.75	31.922	13.02	20.05	



				LTE Band 5								
Channel Bandwidth: 3 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)					
	20415	825.5	-10.03	31.208	19.03	79.95						
	20525	836.5	-10.05	31.3	19.10	81.28	Н					
l x	20635	847.5	-10.01	31.222	19.06	80.57						
_ ^	20415	825.5	-15.30	31.504	14.05	25.43						
	20525	836.5	-14.91	31.117	14.06	25.45	V					
	20635	847.5	-15.68	31.922	14.09	25.66						
			Channel Ba	ndwidth: 3 MHz	/ 16QAM							
	20415	825.5	-11.01	31.208	18.05	63.80						
	20525	836.5	-11.10	31.3	18.05	63.83	Н					
	20635	847.5	-11.06	31.222	18.01	63.27						
X	20415	825.5	-16.26	31.504	13.09	20.39						
	20525	836.5	-15.92	31.117	13.05	20.17	V					
	20635	847.5	-16.66	31.922	13.11	20.47						

				LTE Band 5								
Channel Bandwidth: 5 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)					
	20425	826.5	-10.04	31.208	19.02	79.76						
	20525	836.5	-10.06	31.3	19.09	81.10	Н					
l x	20625	846.5	-10.02	31.222	19.05	80.39						
_ ^	20425	826.5	-15.32	31.504	14.03	25.32						
	20525	836.5	-14.92	31.117	14.05	25.39	V					
	20625	846.5	-15.68	31.922	14.09	25.66						
			Channel Ba	ndwidth: 5 MHz	/ 16QAM							
	20425	826.5	-10.92	31.208	18.14	65.13						
	20525	836.5	-11.03	31.3	18.12	64.86	Н					
\ \ \	20625	846.5	-10.93	31.222	18.14	65.19						
X	20425	826.5	-16.33	31.504	13.02	20.06						
	20525	836.5	-15.89	31.117	13.08	20.31	V					
	20625	846.5	-16.65	31.922	13.12	20.52						



				LTE Band 5									
Channel Bandwidth: 10 MHz / QPSK													
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)						
	20450	829.0	-10.03	31.208	19.03	79.95							
	20525	836.5	-10.11	31.3	19.04	80.17	Н						
l x	20600	844.0	-10.03	31.222	19.04	80.20							
^	20450	829.0	-15.26	31.504	14.09	25.67							
	20525	836.5	-14.90	31.117	14.07	25.51	V						
	20600	844.0	-15.71	31.922	14.06	25.48							
		(Channel Bar	ndwidth: 10 MHz	/ 16QAM								
	20450	829.0	-10.94	31.208	18.12	64.83							
	20525	836.5	-11.06	31.3	18.09	64.42	Н						
\ \ \	20600	844.0	-11.02	31.222	18.05	63.86							
X	20450	829.0	-16.16	31.504	13.19	20.86							
	20525	836.5	-15.83	31.117	13.14	20.59	V						
	20600	844.0	-16.60	31.922	13.17	20.76							

				LTE Band 26								
Channel Bandwidth: 1.4 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)					
	26797	824.7	-9.06	31.208	20.00	99.95						
	26915	836.5	-9.13	31.3	20.02	100.46	Н					
X	27033	848.3	-9.05	31.222	20.02	100.51						
_ ^	26797	824.7	-15.26	31.504	14.09	25.67						
	26915	836.5	-14.85	31.117	14.12	25.80	V					
	27033	848.3	-15.59	31.922	14.18	26.19						
		C	hannel Ban	dwidth: 1.4 MHz	/ 16QAM							
	26797	824.7	-10.01	31.208	19.05	80.32						
	26915	836.5	-10.11	31.3	19.04	80.17	Н					
l x	27033	848.3	-10.03	31.222	19.04	80.20						
_ ^	26797	824.7	-16.24	31.504	13.11	20.48						
	26915	836.5	-15.86	31.117	13.11	20.45	V					
	27033	848.3	-16.70	31.922	13.07	20.29						



				LTE Band 26									
	Channel Bandwidth: 3 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)						
	26805	825.5	-9.01	31.208	20.05	101.11							
	26915	836.5	-9.05	31.3	20.10	102.33	Н						
X	27025	847.5	-9.03	31.222	20.04	100.97							
_ ^	26805	825.5	-15.21	31.504	14.14	25.97							
	26915	836.5	-14.93	31.117	14.04	25.33	V						
	27025	847.5	-15.62	31.922	14.15	26.01							
			Channel Ba	ndwidth: 3 MHz	/ 16QAM								
	26805	825.5	-10.01	31.208	19.05	80.32							
	26915	836.5	-10.09	31.3	19.06	80.54	Н						
	27025	847.5	-10.05	31.222	19.02	79.84							
X	26805	825.5	-16.24	31.504	13.11	20.48							
	26915	836.5	-15.93	31.117	13.04	20.12	V						
	27025	847.5	-16.66	31.922	13.11	20.47							

				LTE Band 26									
Channel Bandwidth: 5 MHz / QPSK													
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)						
	26815	826.5	-9.04	31.208	20.02	100.42							
	26915	836.5	-9.01	31.3	20.14	103.28	Н						
l x	27015	846.5	-8.89	31.222	20.18	104.28							
^	26815	826.5	-15.24	31.504	14.11	25.79							
	26919	836.5	-14.89	31.117	14.08	25.57	V						
	27015	846.5	-15.68	31.922	14.09	25.66							
			Channel Ba	ndwidth: 5 MHz	/ 16QAM								
	26815	826.5	-10.02	31.208	19.04	80.13							
	26915	836.5	-10.05	31.3	19.10	81.28	Н						
\ \ \	27015	846.5	-10.02	31.222	19.05	80.39							
X	26815	826.5	-16.06	31.504	13.29	21.35							
	26919	836.5	-15.62	31.117	13.35	21.61	V						
	27015	846.5	-16.64	31.922	13.13	20.57							



				LTE Band 26								
Channel Bandwidth: 10 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)					
	26840	829.0	-9.01	31.208	20.05	101.11						
	26915	836.5	-9.06	31.3	20.09	102.09	Н					
l x	26990	844.0	-9.01	31.222	20.06	101.44						
_ ^	26840	829.0	-15.26	31.504	14.09	25.67						
	26919	836.5	-14.85	31.117	14.12	25.80	V					
	26990	844.0	-15.70	31.922	14.07	25.54						
		(Channel Bar	ndwidth: 10 MHz	/ 16QAM							
	26840	829.0	-9.97	31.208	19.09	81.06						
	26915	836.5	-9.89	31.3	19.26	84.33	Н					
	26990	844.0	-10.04	31.222	19.03	80.02						
X	26840	829.0	-16.24	31.504	13.11	20.48						
	26919	836.5	-15.89	31.117	13.08	20.31	V					
	26990	844.0	-16.70	31.922	13.07	20.29						

				LTE Band 26								
Channel Bandwidth: 15 MHz / QPSK												
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)					
	26865	831.5	-9.01	31.208	20.05	101.11						
	26915	836.5	-9.05	31.3	20.10	102.33	Н					
l _x	26965	841.5	-9.06	31.222	20.01	100.28						
^	26865	831.5	-15.16	31.504	14.19	26.27						
	26915	836.5	-14.85	31.117	14.12	25.80	V					
	26965	841.5	-15.73	31.922	14.04	25.36						
		(Channel Bar	ndwidth: 15 MHz	/ 16QAM							
	26865	831.5	-9.64	31.208	19.42	87.46						
	26915	836.5	-9.37	31.3	19.78	95.06	Н					
\ \ \	26965	841.5	-9.51	31.222	19.56	90.41						
Х	26865	831.5	-16.32	31.504	13.03	20.11						
	26915	836.5	-15.81	31.117	13.16	20.69	V					
	26965	841.5	-16.64	31.922	13.13	20.57						



4.2 Frequency Stability Measurement

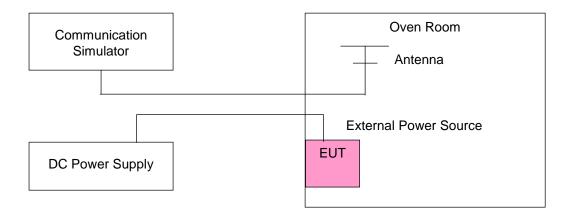
- 4.2.1 Limits of Frequency Stability Measurement
- 1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 Test Procedure

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 Test Setup





4.2.4 Test Results

Frequency Error vs. Voltage

W 16			Fre	equency	Error (ppi	m)			
Voltage (Volts)	GSM EDGE			00114		LTE B		Limit (ppm)	
(voits)	GSM	EDGE	WCDMA	CDMA	1.4 MHz	3 MHz	5 MHz	10 MHz	
3.8	0.004	0.002	0.004	0.003	0.002	0.001	0.003	0.004	2.5
3.3	0.003	0.003	0.004	0.005	0.004	0.003	0.003	0.003	2.5
4.35	0.004	0.002	0.004	0.004	0.004	0.003	0.004	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.3 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	GSM	EDGE	WCDMA	CDMA		LTE B		Limit (ppm)	
	GSIVI	EDGE	WCDIVIA	CDMA	1.4 MHz	3 MHz	5 MHz	10 MHz	
-30	0.002	0.002	0.003	0.002	0.003	0.004	0.003	0.004	2.5
-20	0.003	0.002	0.001	0.003	0.003	0.002	0.002	0.003	2.5
-10	0.004	0.004	0.002	0.005	0.004	0.002	0.003	0.002	2.5
0	0.004	0.003	0.002	0.005	0.004	0.002	0.005	0.002	2.5
10	0.002	0.003	0.003	0.005	0.004	0.004	0.004	0.002	2.5
20	-0.003	-0.004	-0.003	-0.004	-0.002	-0.003	-0.003	-0.003	2.5
30	-0.005	-0.005	-0.003	-0.005	-0.003	-0.004	-0.003	-0.004	2.5
40	-0.002	-0.003	-0.004	-0.003	-0.001	-0.004	-0.003	-0.003	2.5
50	-0.002	-0.004	-0.002	-0.003	-0.003	-0.002	-0.002	-0.004	2.5
60	-0.005	-0.003	-0.005	-0.004	-0.004	-0.002	-0.002	-0.005	2.5



Frequency Error vs. Voltage

Voltage (Volts)		Limit (ppm)				
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	Emili (ppm)
3.8	0.003	0.004	0.001	0.002	0.004	2.5
3.3	0.004	0.001	0.004	0.004	0.002	2.5
4.35	0.004	0.003	0.003	0.003	0.003	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.3 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (℃)			LTE Band 26			Limit (ppm)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	
-30	0.005	0.001	0.004	0.004	0.003	2.5
-20	0.003	0.003	0.004	0.002	0.004	2.5
-10	0.001	0.002	0.005	0.003	0.002	2.5
0	0.004	0.004	0.005	0.003	0.001	2.5
10	0.001	0.005	0.003	0.001	0.003	2.5
20	-0.003	-0.002	-0.004	-0.002	-0.004	2.5
30	-0.003	-0.002	-0.003	-0.005	-0.004	2.5
40	-0.003	-0.003	-0.002	-0.002	-0.004	2.5
50	-0.001	-0.002	-0.004	-0.005	-0.001	2.5
60	-0.002	-0.002	-0.004	-0.001	-0.003	2.5

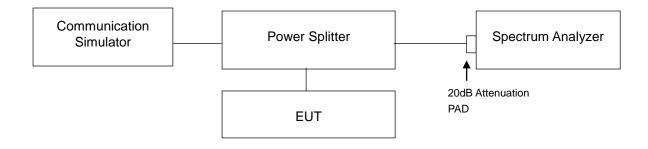


4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 Test Setup

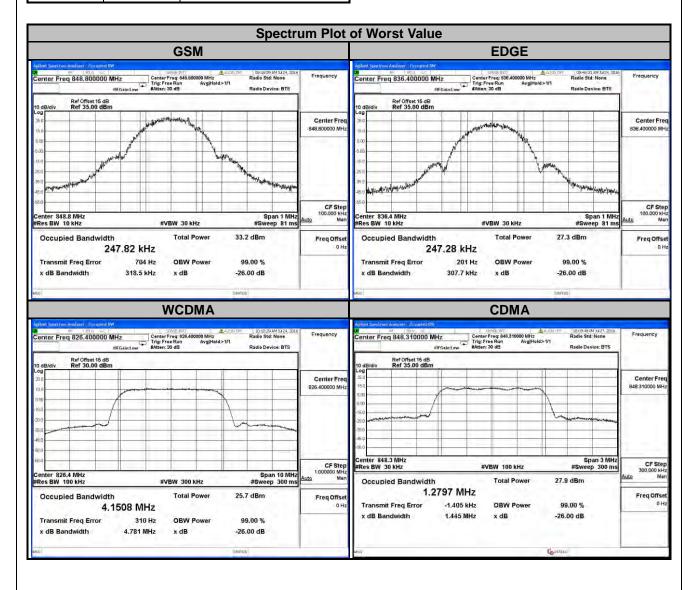




4.3.3 Test Result

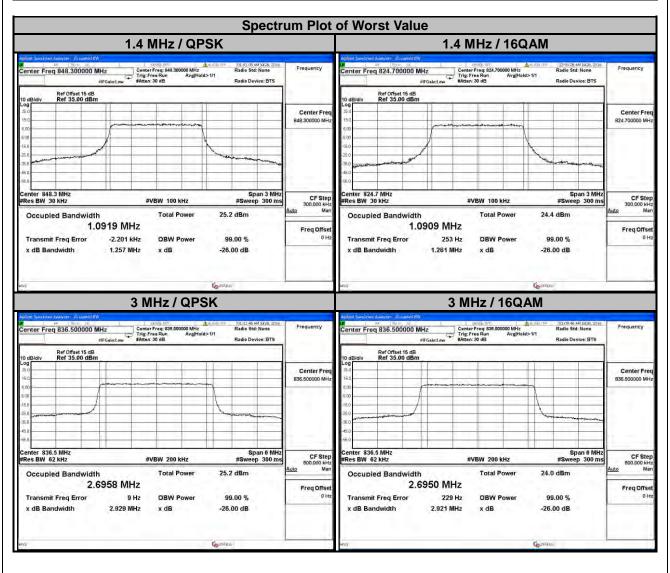
Channel	Frequency (MHz)	•	ed Bandwidth Hz)	Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
	GSM EDGE			WCDMA			
128	824.2	244.44	245.51	4132	826.4	4.15	
189	836.4	246.60	247.28	4182	836.4	4.15	
251	848.8	247.82	246.76	4233	846.6	4.14	
		00 % Occupi	ad Bandwidth				

Channel	Frequency	99 % Occupied Bandwidth (kHz)
	(MHz)	CDMA
1013	824.70	1.27
384	836.52	1.28
777	848.31	1.28



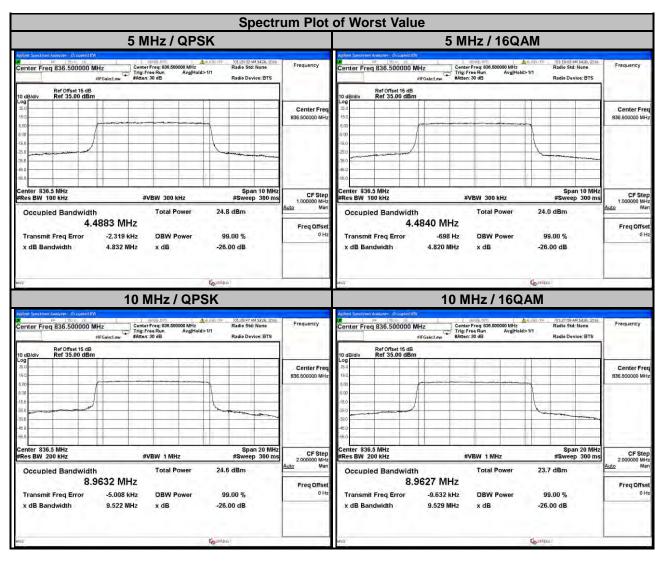


LTE Band 5							
С	hannel Band	width: 1.4 MH	·lz	Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)		ccupied Ith (MHz)	•	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.09	1.09	20415	825.5	2.70	2.69
20525	836.5	1.09	1.09	20525	836.5	2.70	2.70
20643	848.3	1.09	1.09	20635	847.5	2.69	2.70



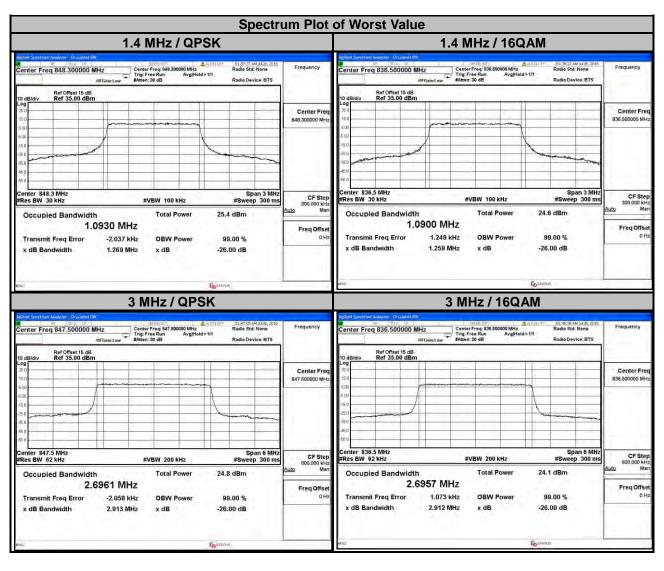


LTE Band 5							
(Channel Band	dwidth: 5 MH	z	Channel Bandwidth: 10 MHz			
(.nannei	Frequency		ccupied Ith (MHz)	Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
	(MHz)	QPSK	16QAM			QPSK	16QAM
20425	826.5	4.49	4.48	20450	829.0	8.95	8.95
20525	836.5	4.49	4.48	20525	836.5	8.96	8.96
20625	846.5	4.49	4.48	20600	844.0	8.94	8.94



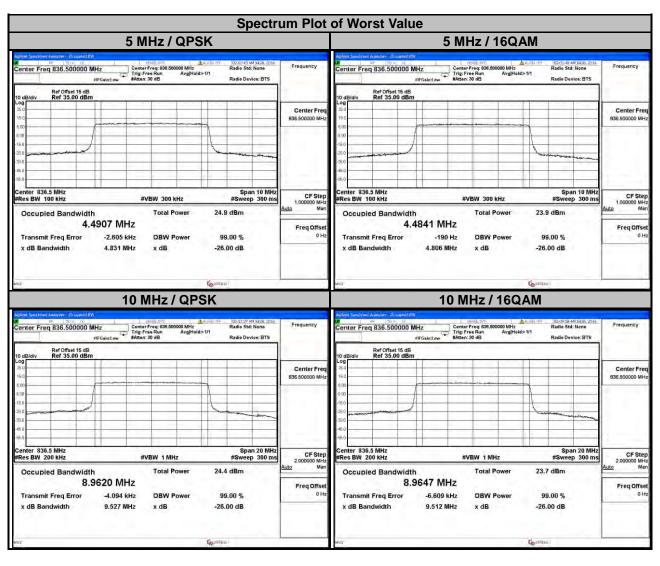


LTE Band 26							
С	hannel Band	width: 1.4 MF	-lz	Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)		% Occupied dwidth (MHz)		Frequency	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM		(MHz)	QPSK	16QAM
26797	824.7	1.09	1.09	26805	825.5	2.70	2.70
26915	836.5	1.09	1.09	26915	836.5	2.70	2.70
27033	848.3	1.09	1.09	27025	847.5	2.70	2.69



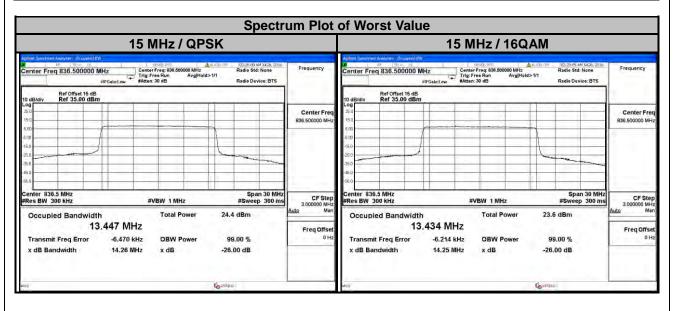


LTE Band 26							
(Channel Band	lwidth: 5 MH	z	Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)		ccupied Ith (MHz)	Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26815	826.5	4.48	4.48	26840	829.0	8.95	8.95
26915	836.5	4.49	4.48	26915	836.5	8.96	8.96
27015	846.5	4.49	4.48	26990	844.0	8.94	8.94





LTE Band 26							
Channel Bandwidth: 15 MHz							
Channal	Francisco (MIII-)	99 % Occupied Bandwidth (MHz)					
Channel	Frequency (MHz)	QPSK	16QAM				
26865	831.5	13.43	13.41				
26915	836.5	13.45	13.43				
26965	841.5	13.40	13.40				



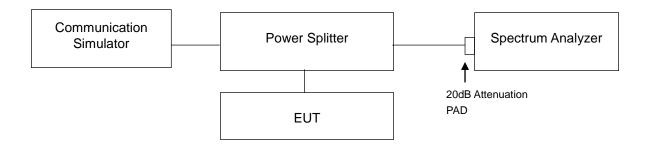


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

Power of any emission 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 Test Setup

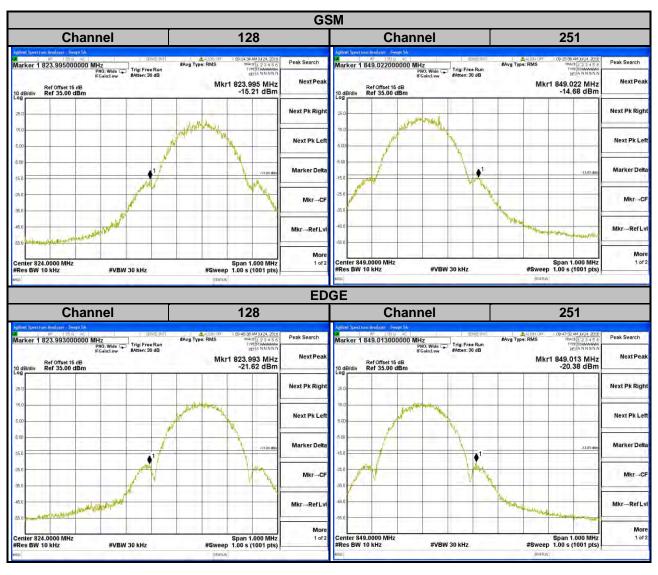


4.4.3 Test Procedures

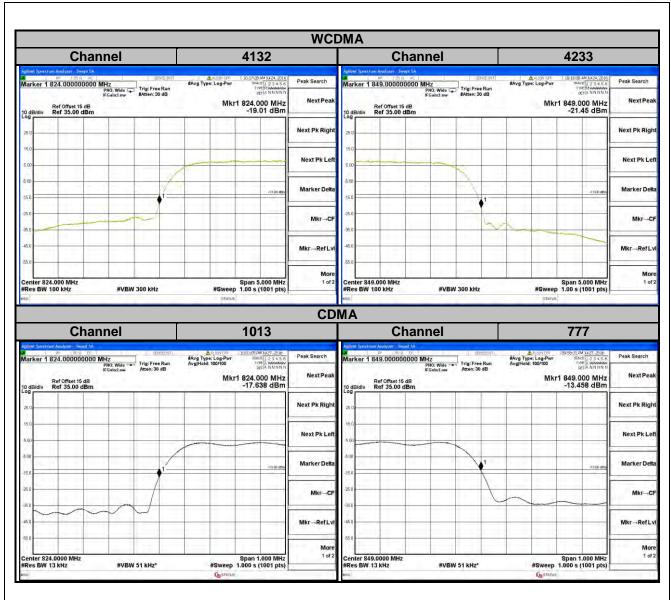
- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 10 kHz and VB of the spectrum is 30 kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 13 kHz and VB of the spectrum is 51 kHz (CDMA / LTE Bandwidth 1.4 MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 30 kHz and VB of the spectrum is 100 kHz (LTE Bandwidth 3 MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (LTE Bandwidth 5 MHz/10 MHz).
- g. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150 kHz and VB of the spectrum is 470 kHz (LTE Bandwidth 15 MHz).
- h. Record the max trace plot into the test report.



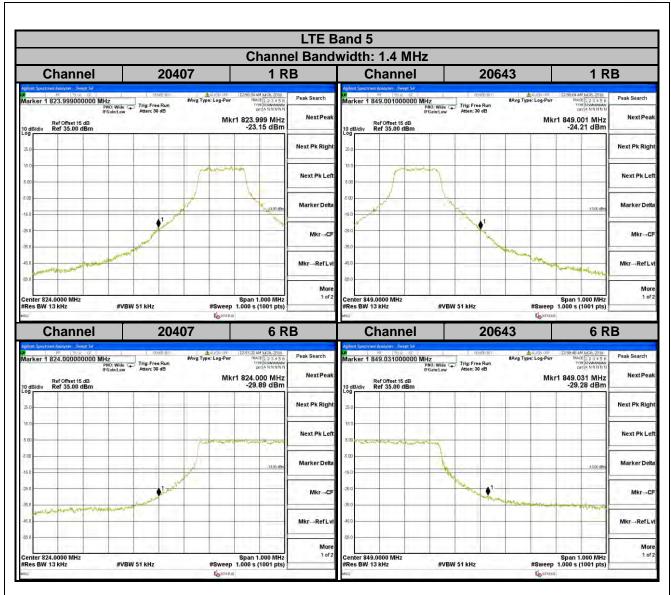
4.4.4 Test Results



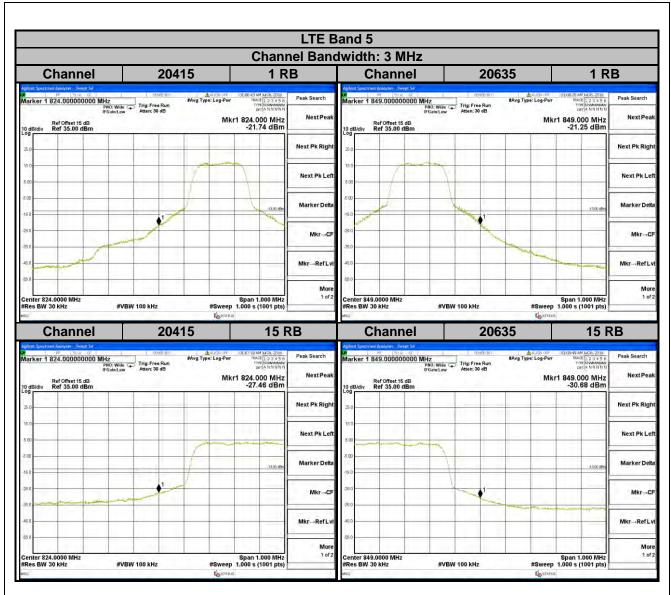




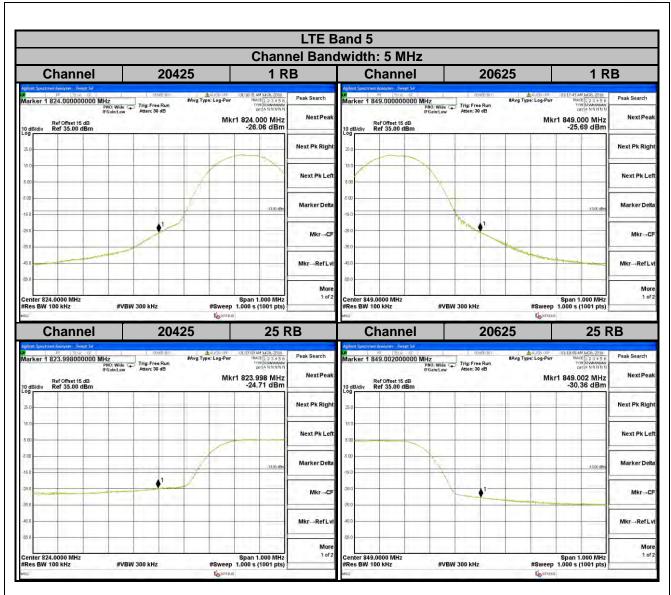




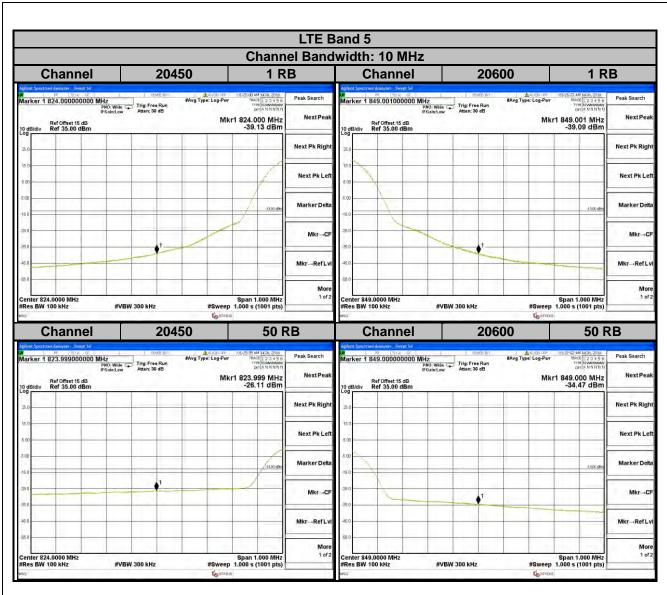




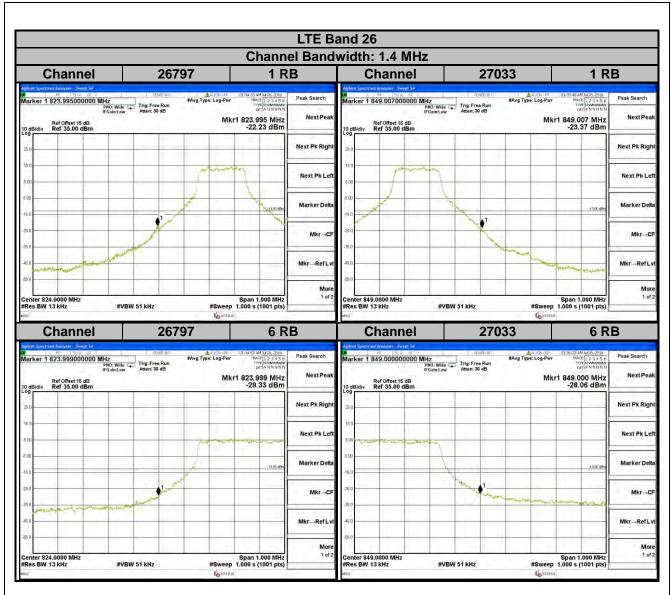




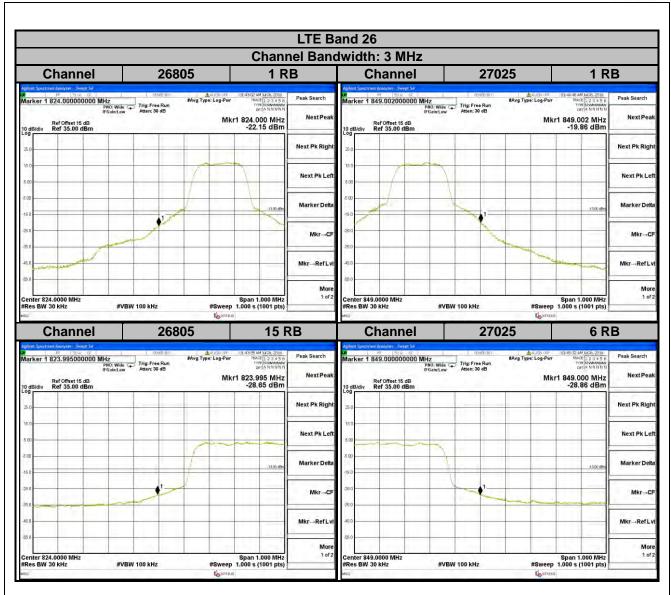




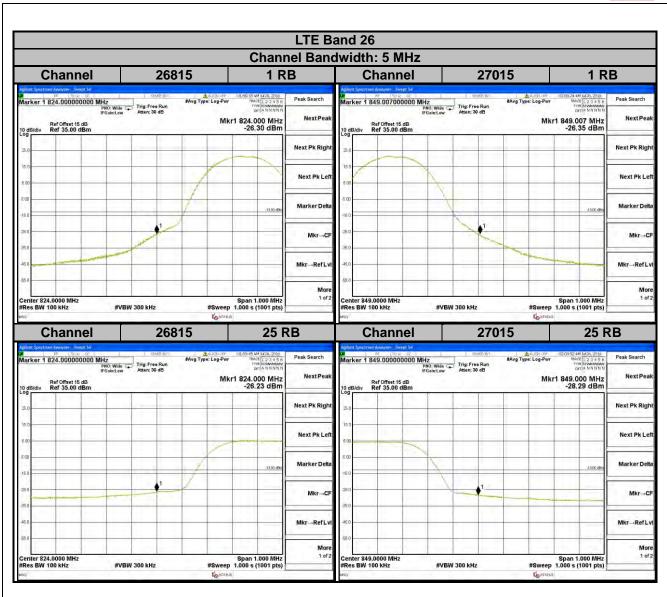




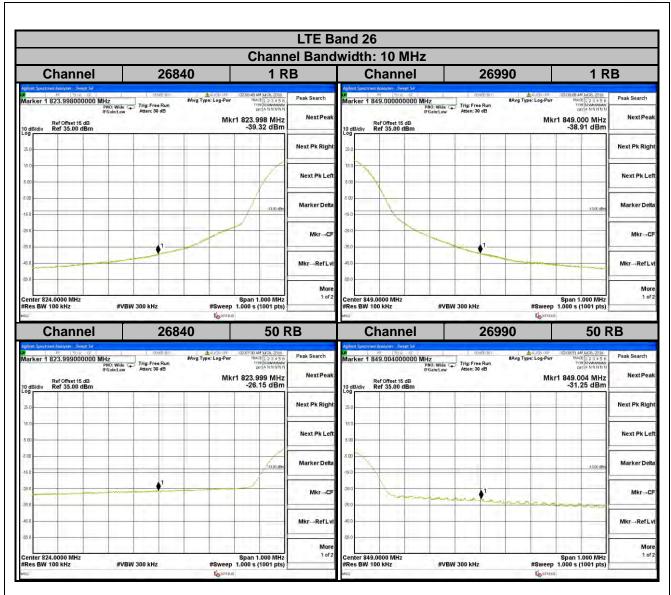




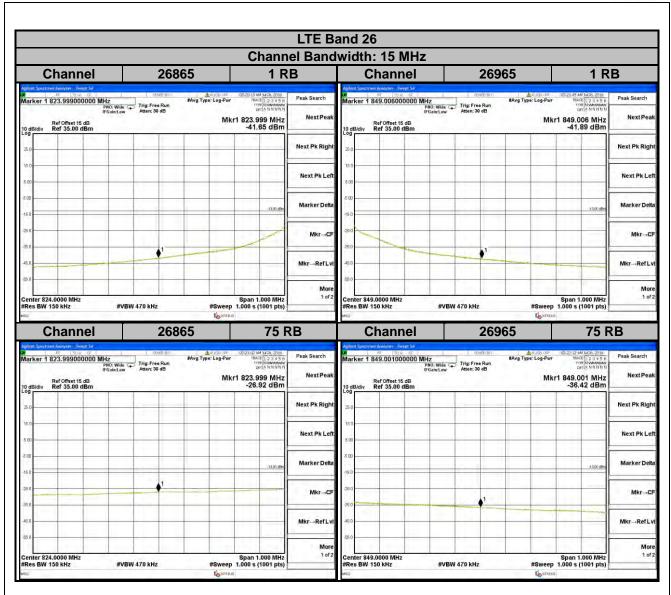












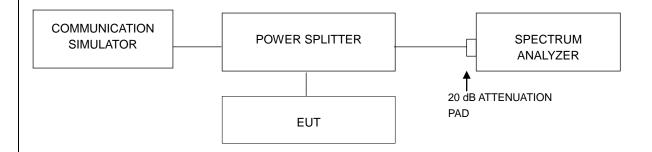


4.5 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.5.2 Test Setup



4.5.3 Test Procedures

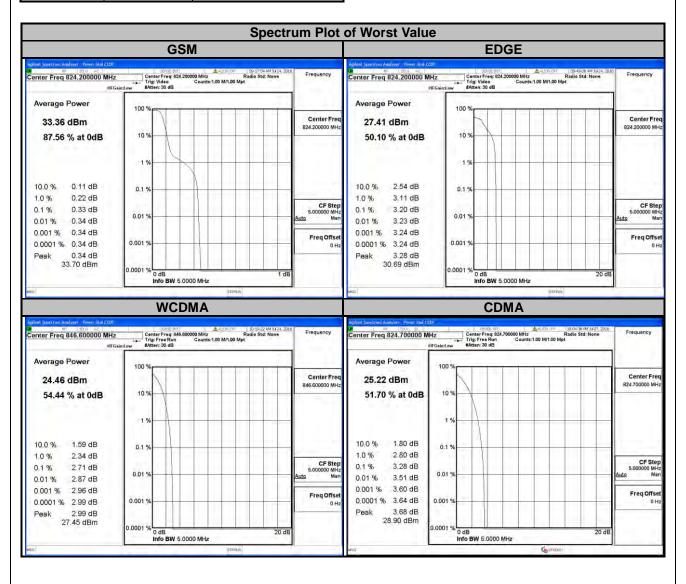
- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1 %.



4.5.4 Test Results

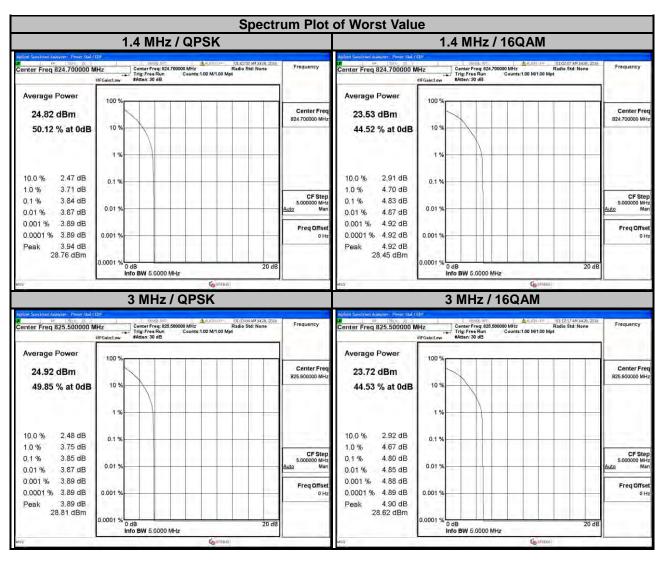
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
	(IVITIZ)	GSM	EDGE		(IVITZ)	WCDMA	
128	824.2	0.33	3.20	4132	826.4	2.42	
189	836.4	0.28	3.18	4182	836.4	2.66	
251	848.8	0.30	3.19	4233	846.6	2.71	
		Book to Average Batio					

Channel	Frequency	Peak to Average Ratio (dB)		
	(MHz)	CDMA		
1013	824.70	3.28		
384	836.52	2.91		
777	848.31	2.80		



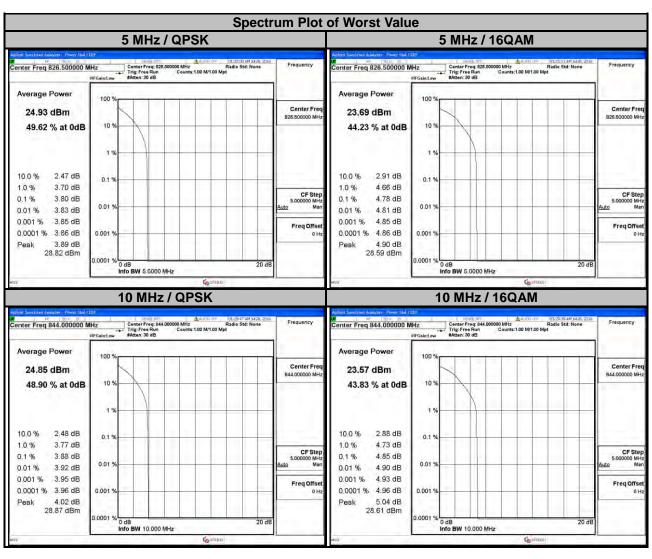


	LTE Band 5										
С	hannel Band	width: 1.4 MH	łz		Channel Band	dwidth: 3 MH	z				
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency	Peak to Average Ratio (dB)					
		QPSK	16QAM		(MHz)	QPSK	16QAM				
20407	824.7	3.84	4.83	20415	825.5	3.85	4.80				
20525	836.5	3.46	4.38	20525	836.5	3.22	4.19				
20643	848.3	3.50	4.52	20635	847.5	3.38	4.54				



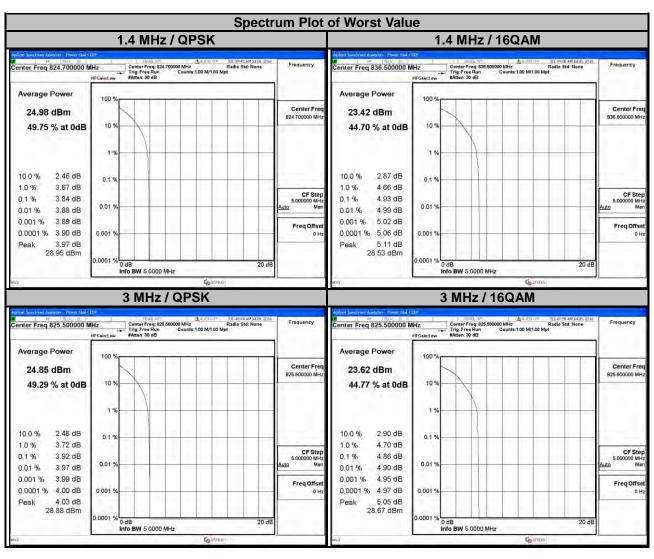


	LTE Band 5										
(Channel Band	dwidth: 5 MH	z	C	Channel Band	width: 10 MF	lz				
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency	Peak to Average Ratio (dB)					
		QPSK	16QAM		(MHz)	QPSK	16QAM				
20425	826.5	3.80	4.78	20450	829.0	3.76	4.76				
20525	836.5	3.14	4.06	20525	836.5	2.74	3.79				
20625	846.5	3.60	4.65	20600	844.0	3.88	4.85				



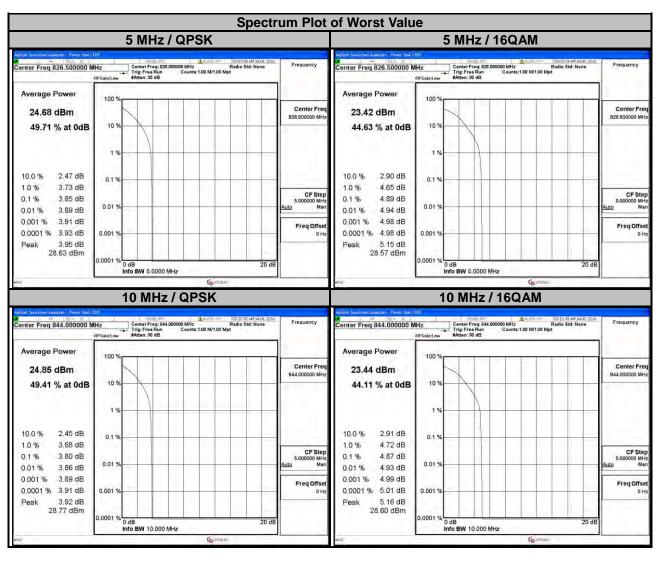


	LTE Band 26										
С	hannel Band	width: 1.4 MH	·lz		Channel Band	lwidth: 3 MH	z				
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency	Peak to Average Ratio (dB)					
		QPSK	16QAM		(MHz)	QPSK	16QAM				
26797	824.7	3.84	4.80	26805	825.5	3.92	4.86				
26915	836.5	3.42	4.93	26915	836.5	3.22	4.23				
27033	848.3	3.37	4.62	27025	847.5	3.42	4.48				



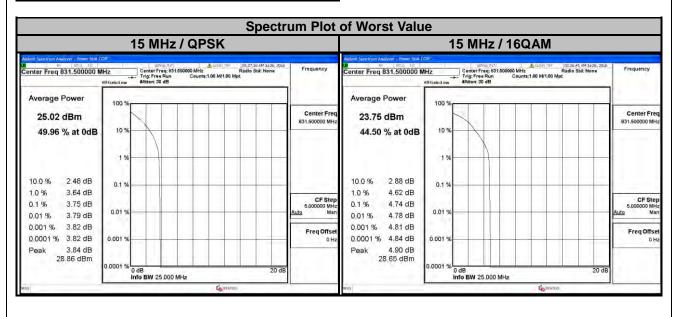


	LTE Band 26										
(Channel Band	dwidth: 5 MH	z	C	hannel Band	width: 10 MF	lz				
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency	Peak to Average Ratio (dB)					
		QPSK	16QAM		(MHz)	QPSK	16QAM				
26815	826.5	3.85	4.89	26840	829.0	3.75	4.71				
26915	836.5	3.12	4.08	26915	836.5	2.89	3.89				
27015	846.5	3.59	4.62	26990	844.0	3.80	4.87				





LTE Band 26								
Channel Bandwidth: 15 MHz								
Channel	Frequency	Peak to Average Ratio (dB)						
Gnamo	(MHz)	QPSK	16QAM					
26865	831.5	3.75	4.74					
26915	836.5	2.81	3.83					
26965	841.5	3.02	4.08					



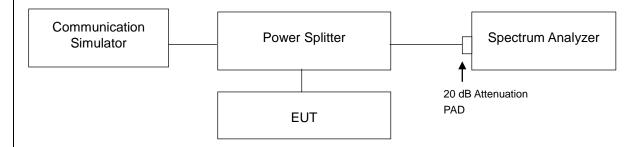


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission 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 emission limit equal to -13 dBm.

4.6.2 Test Setup

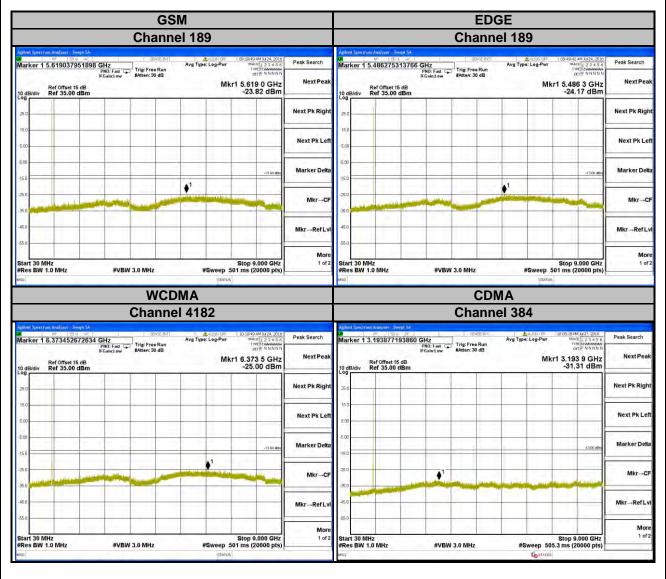


4.6.3 Test Procedure

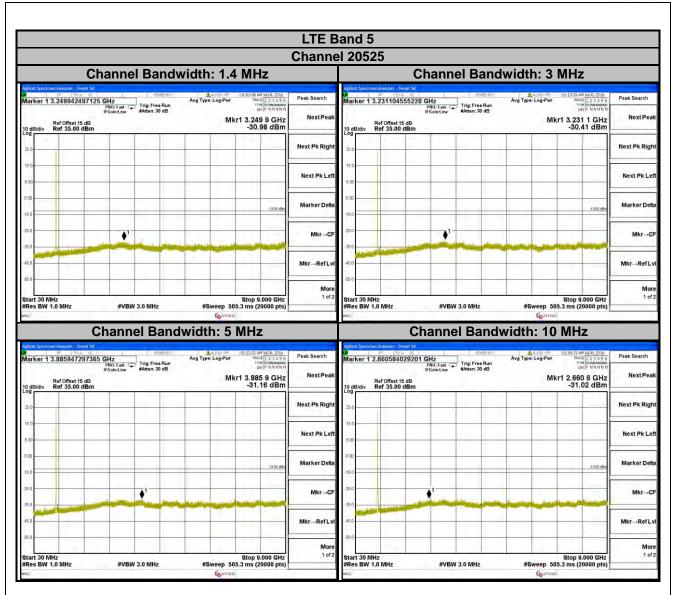
- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz is used for conducted emission measurement.



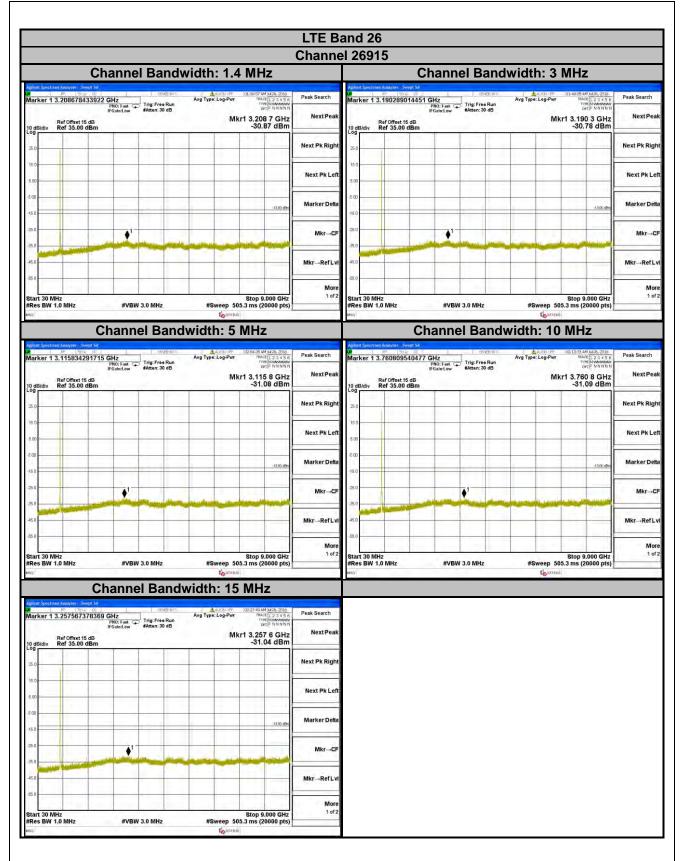
4.6.4 Test Results













4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission 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 emission limit is equal to -13 dBm.

4.7.2 Test Procedure

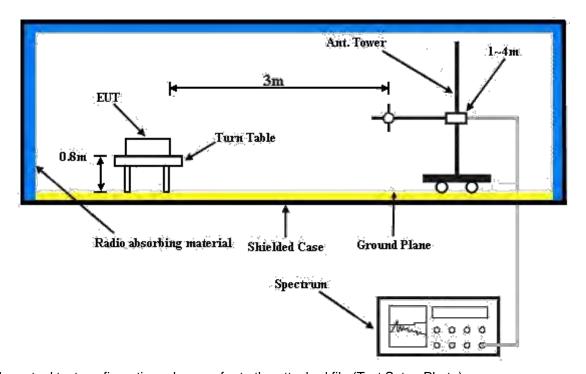
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15 dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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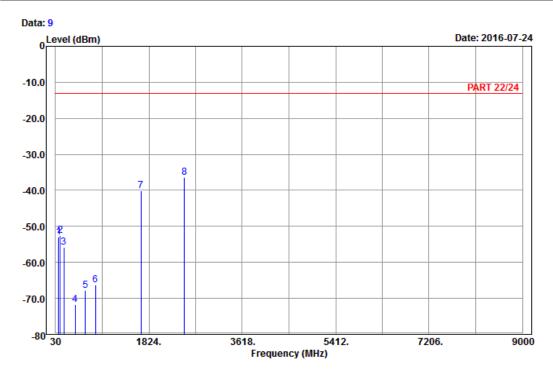


4.7.5 Test Results

GSM:



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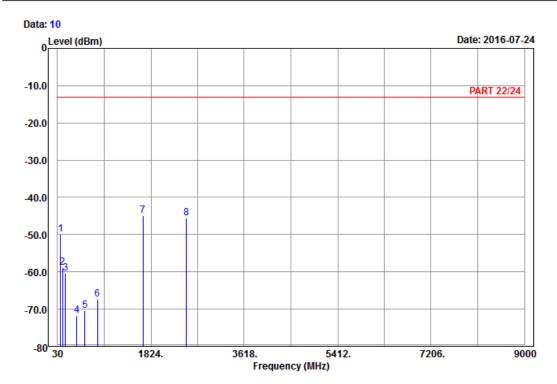
Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : GSM 850_Link_CH189

	-			Limit		. .	ъ .
	Freq	revel	revel	Line	Limit	Factor	Kemark
-	MHz	dBm	dBm	dBm	dB	dB	
1	90.21	-52.90	-42.23	-13.00	-39.90	-10.67	Peak
2	123.15	-52.55	-44.48	-13.00	-39.55	-8.07	Peak
3	188.76	-55.70	-49.98	-13.00	-42.70	-5.72	Peak
4	405.00	-71.66	-68.79	-13.00	-58.66	-2.87	Peak
5	604.50	-67.74	-68.12	-13.00	-54.74	0.38	Peak
6	799.80	-66.35	-68.36	-13.00	-53.35	2.01	Peak
7	1672.80	-40.07	-47.98	-13.00	-27.07	7.91	Peak
8 pp	2509.20	-36.37	-47.65	-13.00	-23.37	11.28	Peak







Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : GSM 850_Link_CH189

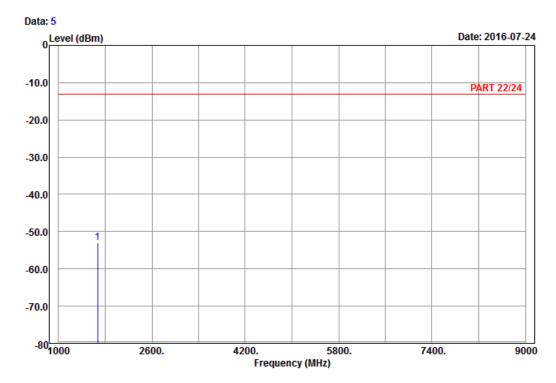
	Freq	Level		Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	88.86	-49.85	-39.07	-13.00	-36.85	-10.78	Peak
2	123.96	-58.88	-50.87	-13.00	-45.88	-8.01	Peak
3	180.66	-60.33	-54.75	-13.00	-47.33	-5.58	Peak
4	403.60	-71.77	-68.94	-13.00	-58.77	-2.83	Peak
5	559.70	-70.32	-69.06	-13.00	-57.32	-1.26	Peak
6	797.70	-67.34	-69.16	-13.00	-54.34	1.82	Peak
7 pp	1672.80	-44.82	-52.73	-13.00	-31.82	7.91	Peak
8	2509.20	-45.47	-56.75	-13.00	-32.47	11.28	Peak



EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : EDGE 850_Link_CH189

Tested by: Karl Lee

Read Limit Over

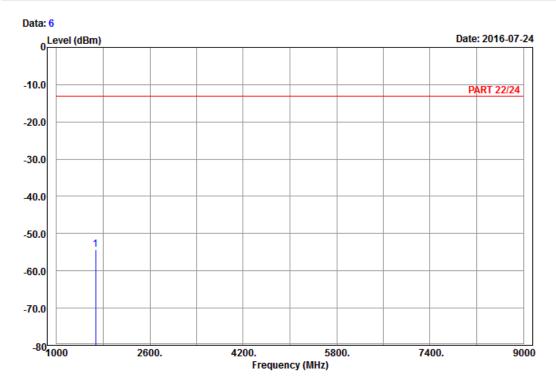
Freq Level Line Limit Factor Remark

MHz dBm dBm dB dB

1 pp 1672.80 -53.00 -60.91 -13.00 -40.00 7.91 Peak







Site : 966 chamber 1

Condition: PART 22/24 Vertical Remark : EDGE 850_Link_CH189

Tested by: Karl Lee

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

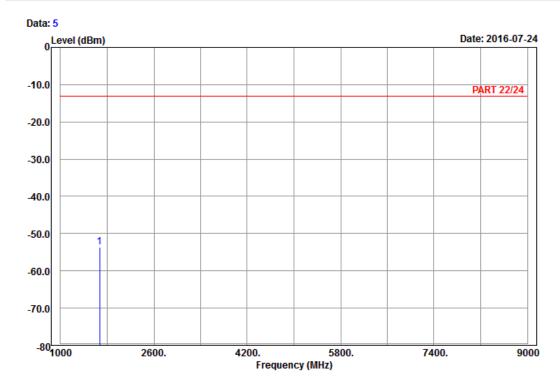
1 pp 1672.80 -54.22 -62.13 -13.00 -41.22 7.91 Peak



WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : Band V_Link_CH4182

Tested by: Karl Lee

Read Limit Over

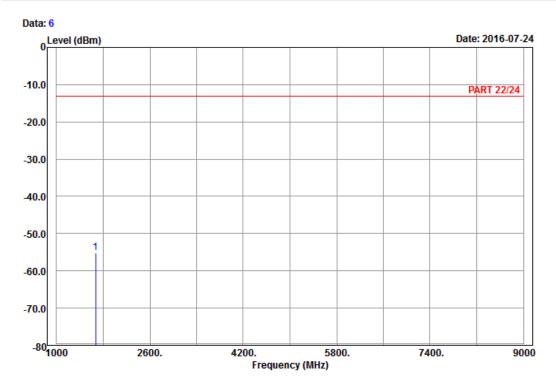
Freq Level Line Limit Factor Remark

MHz dBm dBm dB dB

1 pp 1672.80 -53.62 -61.53 -13.00 -40.62 7.91 Peak







Site : 966 chamber 1

Condition: PART 22/24 Vertical Remark : Band V_Link_CH4182

Tested by: Karl Lee

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm dBm dBm dB dB

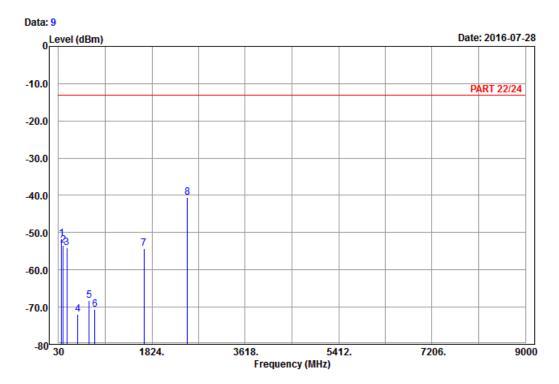
1 pp 1672.80 -55.23 -63.14 -13.00 -42.23 7.91 Peak



CDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

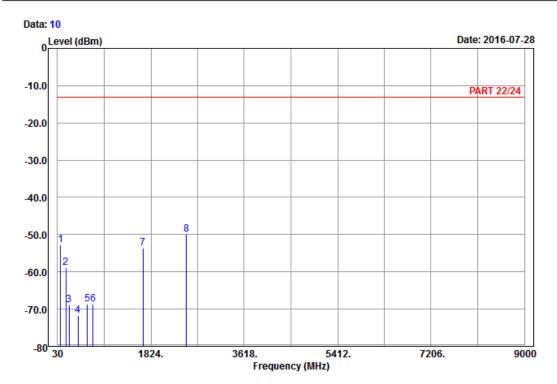
Condition: PART 22/24 Horizontal

Remark : BC 0_Link_CH384

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
_	MHz	dBm	dBm	dBm	dB	dB	
1	88.86	-51.63	-40.85	-13.00	-38.63	-10.78	Peak
2	122.61	-53.48	-45.35	-13.00	-40.48	-8.13	Peak
3	186.60	-54.17	-48.50	-13.00	-41.17	-5.67	Peak
4	403.60	-71.98	-69.15	-13.00	-58.98	-2.83	Peak
5	619.20	-68.23	-68.45	-13.00	-55.23	0.22	Peak
6	729.80	-70.66	-69.73	-13.00	-57.66	-0.93	Peak
7	1673.04	-54.22	-62.13	-13.00	-41.22	7.91	Peak
8 pp	2509.56	-40.56	-51.84	-13.00	-27.56	11.28	Peak







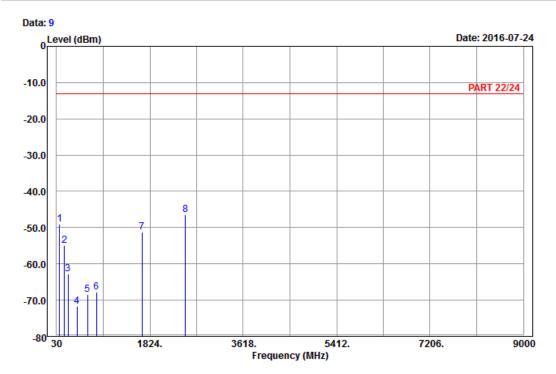
Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : BC 0_Link_CH384

	Freq	Level	Read Level	Limit Line		Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	87.78	-52.83	-41.94	-13.00	-39.83	-10.89	Peak
2	186.06	-58.76	-53.09	-13.00	-45.76	-5.67	Peak
3	250.32	-68.79	-63.28	-13.00	-55.79	-5.51	Peak
4	424.60	-71.65	-68.36	-13.00	-58.65	-3.29	Peak
5	603.80	-68.69	-69.07	-13.00	-55.69	0.38	Peak
6	710.20	-68.75	-68.19	-13.00	-55.75	-0.56	Peak
7	1673.04	-53.73	-61.64	-13.00	-40.73	7.91	Peak
8 pp	2509.56	-49.99	-61.27	-13.00	-36.99	11.28	Peak



LTE Band 5 Channel Bandwidth: 10 MHz / QPSK





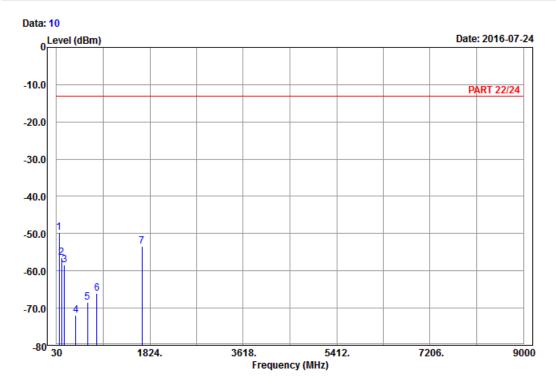
Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : LTE_Band 5_Link_CH20525

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
_	MHz	dBm	dBm	dBm	dB	dB	
1	90.21	-49.09	-38.42	-13.00	-36.09	-10.67	Peak
2	185.79	-54.84	-49.17	-13.00	-41.84	-5.67	Peak
3	255.45	-62.84	-57.29	-13.00	-49.84	-5.55	Peak
4	423.90	-71.70	-68.43	-13.00	-58.70	-3.27	Peak
5	627.60	-68.43	-68.55	-13.00	-55.43	0.12	Peak
6	797.70	-67.73	-69.55	-13.00	-54.73	1.82	Peak
7	1673.00	-51.28	-59.19	-13.00	-38.28	7.91	Peak
8 pp	2509.50	-46.37	-57.65	-13.00	-33.37	11.28	Peak







Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : LTE_Band 5_Link_CH20525

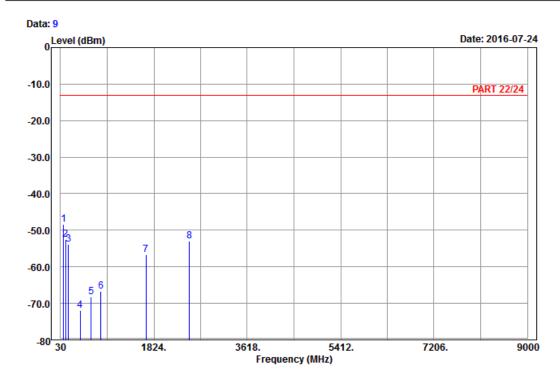
	Freq	Level		Limit Line		Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	82.11	-49.66	-38.11	-13.00	-36.66	-11.55	Peak
2	124.50	-56.46	-48.45	-13.00	-43.46	-8.01	Peak
3	182.01	-58.42	-52.81	-13.00	-45.42	-5.61	Peak
4	404.30	-72.04	-69.19	-13.00	-59.04	-2.85	Peak
5	623.40	-68.54	-68.70	-13.00	-55.54	0.16	Peak
6	805.40	-65.98	-67.94	-13.00	-52.98	1.96	Peak
7	1673.00	-53.40	-61.31	-13.00	-40.40	7.91	Peak



LTE Band 26 Channel Bandwidth: 15 MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 Horizontal Remark : LTE_Band 26_Link_CH26915

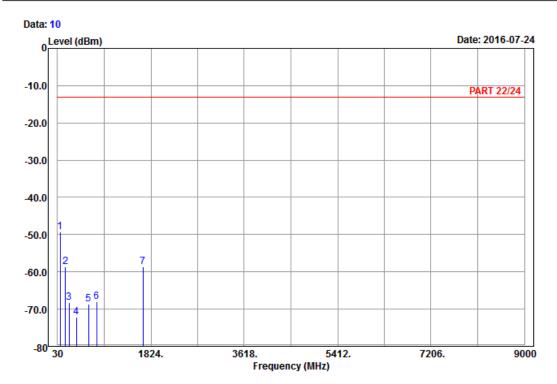
Tested by: Karl Lee

	Freq	Level	Level	Line	Limit	Factor	Remark
-	MHz	dBm	dBm	dBm	dB	dB	
1 pp	91.29	-48.42	-37.80	-13.00	-35.42	-10.62	Peak
2	124.23	-52.60	-44.59	-13.00	-39.60	-8.01	Peak
3	178.77	-53.93	-48.15	-13.00	-40.93	-5.78	Peak
4	409.90	-71.97	-69.00	-13.00	-58.97	-2.97	Peak
5	619.20	-68.13	-68.35	-13.00	-55.13	0.22	Peak
6	806.10	-66.79	-68.73	-13.00	-53.79	1.94	Peak
7	1673.00	-56.65	-64.56	-13.00	-43.65	7.91	Peak
8	2509.50	-52.87	-64.15	-13.00	-39.87	11.28	Peak

Read Limit Over







Site : 966 chamber 1 Condition: PART 22/24 Vertical

Remark : LTE_Band 26_Link_CH26915

F	req	Level	Level	Limit		Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
			-37.69 -53.06				

T bb	01.57	-45.55	-37.03	-13.00	-30.33	-11.00 reak
2	180.66	-58.64	-53.06	-13.00	-45.64	-5.58 Peak
3	251.94	-68.31	-62.79	-13.00	-55.31	-5.52 Peak
4	396.60	-72.18	-69.28	-13.00	-59.18	-2.90 Peak
5	626.20	-68.71	-68.84	-13.00	-55.71	0.13 Peak
6	784.40	-67.98	-68.97	-13.00	-54.98	0.99 Peak
7	1673.00	-58.67	-66.58	-13.00	-45.67	7.91 Peak



5 Pictures of Test Arrangements
Please refer to the attached file (Test Setup Photo).
riease refer to the attached life (rest Setup Filoto).



Appendix - Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab Hsin Chu EMC/RF/Telecom Lab

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The address and road map of all our labs can be found in our web site also.

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