FCC Test Report

(Part 24)

Report No.: RF150504C40-1

FCC ID: T5UAQT80

Test Model: AQT80

Received Date: May 04, 2015

Test Date: May 07 ~ Jul. 03, 2015

Issued Date: Aug. 24, 2015

Applicant: Quanta Microsystems, Inc.

Address: 188 Wenhwa 2nd Rd., Guishan Dist., Tao Yuan City, Taiwan, 33377

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

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Table of Contents

Release Control Record **3**

1 Certificate of Conformity **4**

2 Summary of Test Results **5**

2.1 Measurement Uncertainty 5
2.2 Test Site and Instruments 6

3 General Information **7**

3.1 General Description of EUT 7
3.2 Configuration of System Under Test 9
3.2.1 Description of Support Units 9
3.3 Test Mode Applicability and Tested Channel Detail 10
3.4 EUT Operating Conditions 14
3.5 General Description of Applied Standards 14

4 Test Types and Results **15**

4.1 Output Power Measurement 15
4.1.1 Limits of Output Power Measurement 15
4.1.2 Test Procedures 15
4.1.3 Test Setup 16
4.1.4 Test Results 17
4.2 Frequency Stability Measurement 33
4.2.1 Limits of Frequency Stabiliity Measurement 33
4.2.2 Test Procedure 33
4.2.3 Test Setup 33
4.2.4 Test Results 34
4.3 Occupied Bandwidth Measurement 35
4.3.1 Test Procedure 35
4.3.2 Test Setup 35
4.3.3 Test Result 35
4.4 Band Edge Measurement 39
4.4.1 Limits of Band Edge Measurement 39
4.4.2 Test Setup 39
4.4.3 Test Procedures 39
4.4.4 Test Results 40
4.5 Peak To Average Ratio 52
4.5.1 Limits of Peak To Average Ratio Measurement 52
4.5.2 Test Setup 52
4.5.3 Test Procedures 52
4.5.4 Test Results 53
4.6 Conducted Spurious Emissions 57
4.6.1 Limits of Conducted Spurious Emissions Measurement 57
4.6.2 Test Setup 57
4.6.3 Test Procedure 57
4.6.4 Test Results 58
4.7 Radiated Emission Measurement 94
4.7.1 Limits of Radiated Emission Measurement 94
4.7.2 Test Procedure 94
4.7.3 Deviation from Test Standard 94
4.7.4 Test Setup 95
4.7.5 Test Results 96

5 Pictures of Test Arrangements **132**

Appendix – Information on the Testing Laboratories **133**

Release Control Record

Issue No.	Description	Date Issued
RF150504C40-1	Original release	Aug. 24, 2015

1 Certificate of Conformity

Product: LTE Tablet PC

Brand: Sprint

Test Model: AQT80

Sample Status: Engineering sample

Applicant: Quanta Microsystems, Inc.

Test Date: May 07 ~ Jul. 03, 2015

Standards: FCC Part 24, Subpart E

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.

Prepared by : Celine Chou , **Date:** Aug. 24, 2015

Celine Chou / Specialist

Approved by : Jeremy Lin , **Date:** Aug. 24, 2015

Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 24.238(b)	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.69 dB at 5742.90MHz.

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	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 01, 2014	Nov. 30, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Mar. 30, 2015	Mar. 29, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Feb. 06, 2015	Feb. 05, 2016
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Feb. 09, 2015	Feb. 08, 2016
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 09, 2015	Feb. 08, 2016
Preamplifier Agilent	8449B	3008A01911	Aug. 09, 2014	Aug. 08, 2015
Preamplifier Agilent	8447D	2944A10638	Aug. 09, 2014	Aug. 08, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	248780/4 309222/4 274092/4	Aug. 09, 2014	Aug. 08, 2015
RF signal cable Worken	8D-FB	Cable-CH9-01	Aug. 11, 2014	Aug. 10, 2015
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 08, 2014	Jun. 07, 2015
			Jun. 08, 2015	Jun. 07, 2016
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jun. 09, 2014	Jun. 08, 2015
			Jun. 09, 2015	Jun. 08, 2016
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA

Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 215374.
5. The IC Site Registration No. is IC 7450F-9.

3 General Information

3.1 General Description of EUT

Product	LTE Tablet PC	
Brand	Sprint	
Test Model	AQT80	
Status of EUT	Engineering sample	
Power Supply Rating	5Vdc (adapter) 3.8Vdc (battery)	
Modulation Type	QPSK, 16QAM	
Operating Frequency	LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1909.3MHz
	LTE Band 2 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1908.5MHz
	LTE Band 2 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1907.5MHz
	LTE Band 2 (Channel Bandwidth 10MHz)	1855MHz ~ 1905MHz
	LTE Band 2 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1902.5MHz
	LTE Band 2 (Channel Bandwidth 20MHz)	1860MHz ~ 1900MHz
	LTE Band 25 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1914.3MHz
	LTE Band 25 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1913.5MHz
	LTE Band 25 (Channel Bandwidth 5MHz)	1852.5MHz ~1912.5MHz
	LTE Band 25 (Channel Bandwidth 10MHz)	1855MHz ~ 1910MHz
	LTE Band 25 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1907.5MHz
	LTE Band 25 (Channel Bandwidth 20MHz)	1860MHz ~ 1905MHz

Max. EIRP Power	LTE Band 2 (Channel Bandwidth 1.4MHz)	162.555mW (22.11dBm)
	LTE Band 2 (Channel Bandwidth 3MHz)	252.348mW (24.02dBm)
	LTE Band 2 (Channel Bandwidth 5MHz)	206.063mW (23.14dBm)
	LTE Band 2 (Channel Bandwidth 10MHz)	197.242mW (22.95dBm)
	LTE Band 2 (Channel Bandwidth 15MHz)	230.675mW (23.63dBm)
	LTE Band 2 (Channel Bandwidth 20MHz)	255.270mW (24.07dBm)
	LTE Band 25 (Channel Bandwidth 1.4MHz)	380.189mW (25.80dBm)
	LTE Band 25 (Channel Bandwidth 3MHz)	353.183mW (25.48dBm)
	LTE Band 25 (Channel Bandwidth 5MHz)	347.536mW (25.41dBm)
	LTE Band 25 (Channel Bandwidth 10MHz)	453.942mW (26.57dBm)
	LTE Band 25 (Channel Bandwidth 15MHz)	440.555mW (26.44dBm)
	LTE Band 25 (Channel Bandwidth 20MHz)	437.522mW (26.41dBm)
Antenna Type	LTE Band 2	Main Ant.: LDS antenna with 1.35dBi gain Aux Ant.: LDS antenna with -0.73dBi gain
	LTE Band 2	Main Ant.: LDS antenna with 1.35dBi gain Aux Ant.: LDS antenna with -0.73dBi gain
Antenna Connector	U.FL	
Accessory Device	Adapter, Battery	
Data Cable Supplied	0.9m shielded USB Cable	

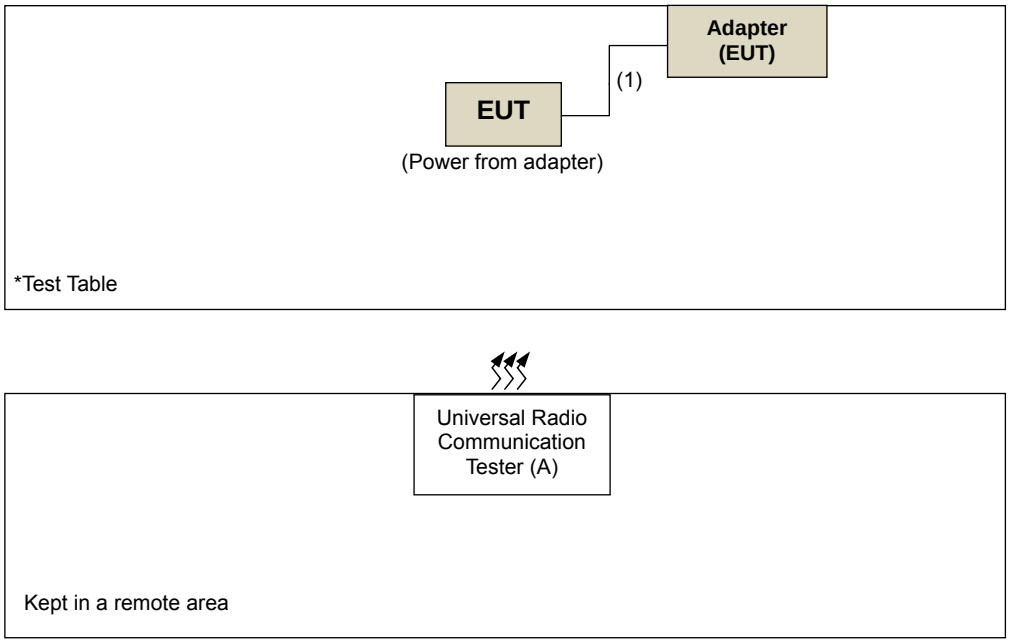
Note:

1. The EUT uses following adapter and battery.

Adapter	
Brand	TPT
Model	NSS050200B
Input Power	100-240Vac, 50-60Hz, 0.3A
Output Power	5Vdc, 2A

Battery	
Brand	Ningbo Veken Battery
Model	NKS
Rating	3.8Vdc, 4450mAh, 16.91Wh

3.2 Configuration of System Under 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Universal Radio Communication Tester	Anritsu	MT8820C	6201010284	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	0.9	Y	0	Accessory of EUT

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 on Z-plane. Following channel(s) was (were) selected for the final test as listed below:

LTE Band 2

Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB / 0 RB Offset
Frequency Stability	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 0 RB Offset
	18615 to 19185	18900	3MHz	QPSK	1 RB / 0 RB Offset
	18625 to 19175	18900	5MHz	QPSK	1 RB / 0 RB Offset
	18650 to 19150	18900	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18900	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset
Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
Band Edge	18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
					6 RB / 0 RB Offset
		19193	1.4MHz	QPSK	1 RB / 5 RB Offset
					6 RB / 0 RB Offset
	18615 to 19185	18615	3MHz	QPSK	1 RB / 0 RB Offset
					15 RB / 0 RB Offset
		19185	3MHz	QPSK	1 RB / 14 RB Offset
					15 RB / 0 RB Offset
	18625 to 19175	18625	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
		19175	5MHz	QPSK	1 RB / 24 RB Offset
					25 RB / 0 RB Offset
	18650 to 19150	18650	10MHz	QPSK	1 RB / 0 RB Offset
					50 RB / 0 RB Offset
		19150	10MHz	QPSK	1 RB / 49 RB Offset
					50 RB / 0 RB Offset
	18675 to 19125	18675	15MHz	QPSK	1 RB / 0 RB Offset
					75 RB / 0 RB Offset
		19125	15MHz	QPSK	1 RB / 74 RB Offset
					75 RB / 0 RB Offset
	18700 to 19100	18700	20MHz	QPSK	1 RB / 0 RB Offset
					100 RB / 0 RB Offset
		19100	20MHz	QPSK	1 RB / 99 RB Offset
					100 RB / 0 RB Offset

Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
Condcudeted Emission	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Below 1GHz	18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
	18615 to 19185	18615	3MHz	QPSK	1 RB / 0 RB Offset
	18625 to 19175	18625	5MHz	QPSK	1 RB / 0 RB Offset
	18650 to 19150	18650	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18675	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18700	20MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Above 1GHz	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB / 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB / 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB / 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB / 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB / 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB / 0 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
Frequency Stability	24deg. C, 64%RH	3.8Vdc	Match Tsui
Occupied Bandwidth	24deg. C, 64%RH	3.8Vdc	Match Tsui
Band Edge	24deg. C, 64%RH	3.8Vdc	Match Tsui
Peak To Average Ratio	24deg. C, 64%RH	3.8Vdc	Match Tsui
Conducted Emission	24deg. C, 64%RH	3.8Vdc	Match Tsui
Radiated Emission	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang

LTE Band 25

Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB / 0 RB Offset
Frequency Stability	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB Offset
	26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset
	26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB Offset
	26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
	26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset
Occupied Bandwidth	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
Band Edge	26047 to 26683	26047	1.4MHz	QPSK	1 RB / 0 RB Offset
					6 RB / 0 RB Offset
		26683	1.4MHz	QPSK	1 RB / 5 RB Offset
					6 RB / 0 RB Offset
	26055 to 26675	26055	3MHz	QPSK	1 RB / 0 RB Offset
					15 RB / 0 RB Offset
		26675	3MHz	QPSK	1 RB / 14 RB Offset
					15 RB / 0 RB Offset
	26065 to 26665	26065	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
		26665	5MHz	QPSK	1 RB / 24 RB Offset
					25 RB / 0 RB Offset
	26090 to 26640	26090	10MHz	QPSK	1 RB / 0 RB Offset
					50 RB / 0 RB Offset
		26640	10MHz	QPSK	1 RB / 49 RB Offset
					50 RB / 0 RB Offset
	26115 to 26615	26115	15MHz	QPSK	1 RB / 0 RB Offset
					75 RB / 0 RB Offset
		26615	15MHz	QPSK	1 RB / 74 RB Offset
					75 RB / 0 RB Offset
	26140 to 26590	26140	20MHz	QPSK	1 RB / 0 RB Offset
					100 RB / 0 RB Offset
		26590	20MHz	QPSK	1 RB / 99 RB Offset
					100 RB / 0 RB Offset

Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
Peak to Average Ratio	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
Condcudeted Emission	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Below 1GHz	26047 to 26683	26047	1.4MHz	QPSK	1 RB / 0 RB Offset
	26055 to 26675	26055	3MHz	QPSK	1 RB / 0 RB Offset
	26065 to 26665	26065	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090	10MHz	QPSK	1 RB / 0 RB Offset
	26115 to 26615	26115	15MHz	QPSK	1 RB / 0 RB Offset
	26140 to 26590	26140	20MHz	QPSK	1 RB / 0 RB Offset
Radiated Emission Above 1GHz	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB Offset
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB / 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB / 0 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	16deg. C, 70%RH	120Vac, 60Hz	Frank Liu
Frequency Stability	24deg. C, 64%RH	3.8Vdc	Match Tsui
Occupied Bandwidth	24deg. C, 64%RH	3.8Vdc	Match Tsui
Band Edge	24deg. C, 64%RH	3.8Vdc	Match Tsui
Peak To Average Ratio	24deg. C, 64%RH	3.8Vdc	Match Tsui
Conducted Emission	24deg. C, 64%RH	3.8Vdc	Match Tsui
Radiated Emission	16deg. C, 70%RH	120Vac, 60Hz	Frank Liu

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 24

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-C 2004

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 2 watts e.i.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 10MHz for LTE Mode.

b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m 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 1m to 4m 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

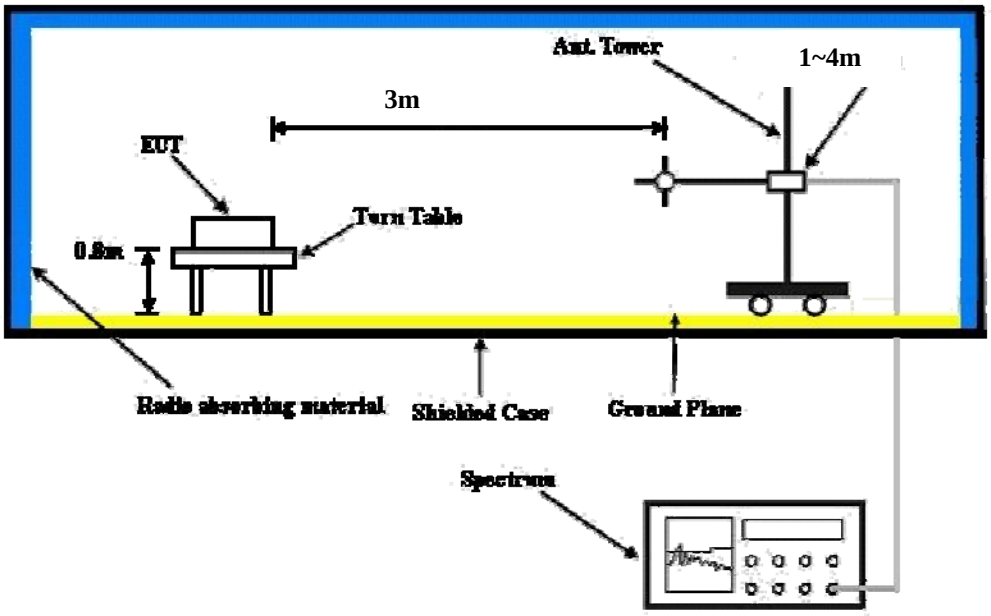
d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

Conducted Power Measurement:

The EUT was set up for the maximum power with GPRS & WCDMA 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:

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

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18607	18900	19193	18607	18900	19193
			1850.7 MHz	1880 MHz	1909.3 MHz	1850.7 MHz	1880 MHz	1909.3 MHz
2 / 1.4M	1	0	21.54	21.72	21.38	20.52	20.70	20.36
	1	2	21.34	21.52	21.18	20.32	20.50	20.16
	1	5	21.11	21.29	20.95	20.09	20.27	19.93
	3	0	21.21	21.39	21.05	20.19	20.37	20.03
	3	1	21.13	21.31	20.97	20.11	20.29	19.95
	3	3	21.07	21.25	20.91	20.05	20.23	19.89
	6	0	20.23	20.41	20.07	19.21	19.39	19.05
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18615	18900	19185	18615	18900	19185
			1851.5 MHz	1880 MHz	1908.5 MHz	1851.5 MHz	1880 MHz	1908.5 MHz
2 / 3M	1	0	21.67	21.85	21.51	20.65	20.83	20.49
	1	7	21.47	21.65	21.31	20.45	20.63	20.29
	1	14	21.24	21.42	21.08	20.22	20.40	20.06
	8	0	20.46	20.64	20.30	19.44	19.62	19.28
	8	3	20.40	20.58	20.24	19.38	19.56	19.22
	8	7	20.27	20.45	20.11	19.25	19.43	19.09
	15	0	20.36	20.54	20.20	19.34	19.52	19.18
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18625	18900	19175	18625	18900	19175
			1852.5 MHz	1880 MHz	1907.5 MHz	1852.5 MHz	1880 MHz	1907.5 MHz
2 / 5M	1	0	21.76	21.94	21.60	20.74	20.92	20.58
	1	12	21.56	21.74	21.40	20.54	20.72	20.38
	1	24	21.33	21.51	21.17	20.31	20.49	20.15
	12	0	20.55	20.73	20.39	19.53	19.71	19.37
	12	6	20.49	20.67	20.33	19.47	19.65	19.31
	12	13	20.36	20.54	20.20	19.34	19.52	19.18
	25	0	20.45	20.63	20.29	19.43	19.61	19.27

Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18650	18900	19150	18650	18900	19150
			1855 MHz	1880 MHz	1905 MHz	1855 MHz	1880 MHz	1905 MHz
2 / 10M	1	0	21.88	22.06	21.72	20.86	21.04	20.70
	1	24	21.68	21.86	21.52	20.66	20.84	20.50
	1	49	21.45	21.63	21.29	20.43	20.61	20.27
	25	0	20.67	20.85	20.51	19.65	19.83	19.49
	25	12	20.61	20.79	20.45	19.59	19.77	19.43
	25	25	20.48	20.66	20.32	19.46	19.64	19.30
	50	0	20.57	20.75	20.41	19.55	19.73	19.39
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18675	18900	19125	18675	18900	19125
			1857.5 MHz	1880 MHz	1902.5 MHz	1857.5 MHz	1880 MHz	1902.5 MHz
2 / 15M	1	0	21.96	22.14	21.80	20.94	21.12	20.78
	1	37	21.76	21.94	21.60	20.74	20.92	20.58
	1	74	21.53	21.71	21.37	20.51	20.69	20.35
	36	0	20.75	20.93	20.59	19.73	19.91	19.57
	36	19	20.69	20.87	20.53	19.67	19.85	19.51
	36	39	20.56	20.74	20.40	19.54	19.72	19.38
	75	0	20.65	20.83	20.49	19.63	19.81	19.47
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			18700	18900	19100	18700	18900	19100
			1860 MHz	1880 MHz	1900 MHz	1860 MHz	1880 MHz	1900 MHz
2 / 20M	1	0	22.07	22.25	22.01	21.05	21.23	20.89
	1	50	21.87	22.05	21.71	20.85	21.03	20.69
	1	99	21.64	21.82	21.48	20.62	20.80	20.46
	50	0	20.86	21.04	20.70	19.84	20.02	19.68
	50	25	20.80	20.98	20.64	19.78	19.96	19.62
	50	50	20.67	20.85	20.51	19.65	19.83	19.49
	100	0	20.76	20.94	20.60	19.74	19.92	19.58

Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26047	26365	26683	26047	26365	26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz	1850.7 MHz	1882.5 MHz	1914.3 MHz
25 / 1.4M	1	0	21.54	21.47	21.27	20.52	20.45	20.25
	1	2	21.24	21.17	20.97	20.22	20.15	19.95
	1	5	21.19	21.12	20.92	20.17	20.10	19.90
	3	0	21.27	21.20	21.00	20.25	20.18	19.98
	3	1	21.21	21.14	20.94	20.19	20.12	19.92
	3	3	21.16	21.09	20.89	20.14	20.07	19.87
	6	0	20.35	20.28	20.08	19.33	19.26	19.06
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26055	26365	26675	26055	26365	26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz	1851.5 MHz	1882.5 MHz	1913.5 MHz
25 / 3M	1	0	21.65	21.58	21.38	20.63	20.56	20.36
	1	7	21.35	21.28	21.08	20.33	20.26	20.06
	1	14	21.27	21.20	21.00	20.25	20.18	19.98
	8	0	20.51	20.44	20.24	19.49	19.42	19.22
	8	3	20.49	20.42	20.22	19.47	19.40	19.20
	8	7	20.32	20.25	20.05	19.30	19.23	19.03
	15	0	20.46	20.39	20.19	19.44	19.37	19.17
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26065	26365	26665	26065	26365	26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz	1852.5 MHz	1882.5 MHz	1912.5 MHz
25 / 5M	1	0	21.73	21.66	21.46	20.71	20.64	20.44
	1	12	21.43	21.36	21.16	20.41	20.34	20.14
	1	24	21.35	21.28	21.08	20.33	20.26	20.06
	12	0	20.59	20.52	20.32	19.57	19.50	19.30
	12	6	20.57	20.50	20.30	19.55	19.48	19.28
	12	13	20.40	20.33	20.13	19.38	19.31	19.11
	25	0	20.54	20.47	20.27	19.52	19.45	19.25

Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26090	26365	26640	26090	26365	26640
			1855 MHz	1882.5 MHz	1910 MHz	1855 MHz	1882.5 MHz	1910 MHz
25 / 10M	1	0	21.87	21.80	21.60	20.85	20.78	20.58
	1	24	21.57	21.50	21.30	20.55	20.48	20.28
	1	49	21.49	21.42	21.22	20.47	20.40	20.20
	25	0	20.73	20.66	20.46	19.71	19.64	19.44
	25	12	20.71	20.64	20.44	19.69	19.62	19.42
	25	25	20.54	20.47	20.27	19.52	19.45	19.25
	50	0	20.68	20.61	20.41	19.66	19.59	19.39
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26115	26365	26615	26115	26365	26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz	1857.5 MHz	1882.5 MHz	1907.5 MHz
25 / 15M	1	0	21.99	21.92	21.72	20.97	20.90	20.70
	1	37	21.69	21.62	21.42	20.67	20.60	20.40
	1	74	21.61	21.54	21.34	20.59	20.52	20.32
	36	0	20.85	20.78	20.58	19.83	19.76	19.56
	36	19	20.83	20.76	20.56	19.81	19.74	19.54
	36	39	20.66	20.59	20.39	19.64	19.57	19.37
	75	0	20.80	20.73	20.53	19.78	19.71	19.51
Band / BW	RB Size	RB Offset	QPSK			16QAM		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			26140	26365	26590	26140	26365	26590
			1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz
25 / 20M	1	0	22.08	22.01	21.81	21.06	20.99	20.79
	1	50	21.78	21.71	21.51	20.76	20.69	20.49
	1	99	21.70	21.63	21.43	20.68	20.61	20.41
	50	0	20.94	20.87	20.67	19.92	19.85	19.65
	50	25	20.92	20.85	20.65	19.90	19.83	19.63
	50	50	20.75	20.68	20.48	19.73	19.66	19.46
	100	0	20.89	20.82	20.62	19.87	19.80	19.60

EIRP Power (dBm)

LTE Band 2

Channel Bandwidth: 1.4MHz

MODE		TX channel 18607					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1850.70	-18.78	21.40	0.10	21.50	33.00	-11.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1850.70	-18.37	22.01	0.10	**22.11**	33.00	-10.89

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-20.59	19.90	-0.01	19.89	33.00	-13.11
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-19.36	21.23	-0.01	21.22	33.00	-11.78

MODE		TX channel 19193					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1909.30	-20.28	20.39	-0.12	20.27	33.00	-12.73
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1909.30	-19.71	21.10	-0.12	20.98	33.00	-12.02

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 18615					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1851.50	-19.27	20.91	0.10	21.01	33.00	-11.99
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1851.50	-17.63	22.75	0.10	22.85	33.00	-10.15

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-19.85	20.64	-0.01	20.63	33.00	-12.37
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-17.38	23.21	-0.01	23.20	33.00	-9.80

MODE		TX channel 19185					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1908.50	-17.84	22.84	-0.12	22.72	33.00	-10.28
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1908.50	-16.67	24.14	-0.12	**24.02**	33.00	-8.98

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 18625					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	-19.92	20.28	0.09	20.37	33.00	-12.63
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	-17.67	22.72	0.09	22.81	33.00	-10.19

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-20.02	20.47	-0.01	20.46	33.00	-12.54
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-18.39	22.20	-0.01	22.19	33.00	-10.81

MODE		TX channel 19175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1907.50	-20.73	19.95	-0.12	19.83	33.00	-13.17
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1907.50	-17.55	23.26	-0.12	**23.14**	33.00	-9.86

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 18650					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-22.06	18.16	0.09	18.25	33.00	-14.75
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-18.65	21.75	0.09	21.84	33.00	-11.16

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-18.68	21.81	-0.01	21.80	33.00	-11.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-17.64	22.95	-0.01	22.94	33.00	-10.06

MODE		TX channel 19150					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1905.00	-19.99	20.70	-0.11	20.59	33.00	-12.41
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1905.00	-17.73	23.06	-0.11	**22.95**	33.00	-10.05

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 18675					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1857.50	-18.13	22.12	0.07	22.19	33.00	-10.81
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1857.50	-17.21	23.22	0.07	23.29	33.00	-9.71

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-18.35	22.14	-0.01	22.13	33.00	-10.87
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-16.95	23.64	-0.01	**23.63**	33.00	-9.37

MODE		TX channel 19125					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1902.50	-20.13	20.57	-0.10	20.47	33.00	-12.53
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1902.50	-17.74	23.03	-0.10	22.93	33.00	-10.07

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 18700					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1860.00	-18.87	21.40	0.07	21.47	33.00	-11.53
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1860.00	-17.22	23.22	0.07	23.29	33.00	-9.71

MODE		TX channel 18900					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-18.50	21.99	-0.01	21.98	33.00	-11.02
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1880.00	-16.51	24.08	-0.01	**24.07**	33.00	-8.93

MODE		TX channel 19100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1900.00	-19.33	21.37	-0.09	21.28	33.00	-11.72
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1900.00	-17.94	22.81	-0.09	22.72	33.00	-10.28

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25

Channel Bandwidth: 1.4MHz

MODE		TX channel 26047					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1850.70	-19.60	25.90	-5.20	20.70	33.00	-12.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1850.70	-17.20	28.50	-5.20	23.30	33.00	-9.70

MODE		TX channel 26365					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-19.10	26.60	-5.20	21.40	33.00	-11.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-14.80	31.00	-5.20	**25.80**	33.00	-7.20

MODE		TX channel 26683					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1914.30	-19.80	25.90	-5.20	20.70	33.00	-12.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1914.30	-17.00	28.90	-5.20	23.70	33.00	-9.30

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 26055					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1851.50	-19.60	20.58	0.10	20.68	33.00	-12.32
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1851.50	-15.64	24.74	0.10	24.84	33.00	-8.16

MODE		TX channel 26365					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-19.80	20.71	-0.02	20.69	33.00	-12.31
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-15.90	24.71	-0.02	24.69	33.00	-8.31

MODE		TX channel 26675					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1913.50	-19.64	21.02	-0.14	20.88	33.00	-12.12
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1913.50	-15.23	25.62	-0.14	**25.48**	33.00	-7.52

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 26065					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	-17.86	22.34	0.09	22.43	33.00	-10.57
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1852.50	-15.07	25.32	0.09	**25.41**	33.00	-7.59

MODE		TX channel 26365					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-17.94	22.57	-0.02	22.55	33.00	-10.45
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-15.34	25.27	-0.02	25.25	33.00	-7.75

MODE		TX channel 26665					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1912.50	-17.16	23.50	-0.13	23.37	33.00	-9.63
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1912.50	-15.67	25.17	-0.13	25.04	33.00	-7.96

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE	TX channel 26090						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-16.97	23.25	0.09	23.34	33.00	-9.66
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-14.79	25.61	0.09	25.70	33.00	-7.30

MODE	TX channel 26365						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-16.43	24.08	-0.02	24.06	33.00	-8.94
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-14.53	26.08	-0.02	26.06	33.00	-6.94

MODE	TX channel 26640						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1910.00	-16.42	24.25	-0.12	24.13	33.00	-8.87
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1910.00	-14.13	26.69	-0.12	**26.57**	33.00	-6.43

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE	TX channel 26115						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1857.50	-16.60	23.65	0.07	23.72	33.00	-9.28
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1857.50	-14.68	25.75	0.07	25.82	33.00	-7.18

MODE	TX channel 26365						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-16.10	24.41	-0.02	24.39	33.00	-8.61
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-14.40	26.21	-0.02	26.19	33.00	-6.81

MODE	TX channel 26615						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1907.50	-16.25	24.43	-0.12	24.31	33.00	-8.69
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1907.50	-14.25	26.56	-0.12	**26.44**	33.00	-6.56

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE	TX channel 26140						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1860.00	-16.11	24.16	0.07	24.23	33.00	-8.77
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1860.00	-14.87	25.57	0.07	25.64	33.00	-7.36

MODE	TX channel 26365						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-16.17	24.34	-0.02	24.32	33.00	-8.68
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1882.50	-14.73	25.88	-0.02	25.86	33.00	-7.14

MODE	TX channel 26590						
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1905.00	-15.88	24.81	-0.11	24.70	33.00	-8.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1905.00	-14.27	26.52	-0.11	**26.41**	33.00	-6.59

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stabiliity Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 Test Procedure

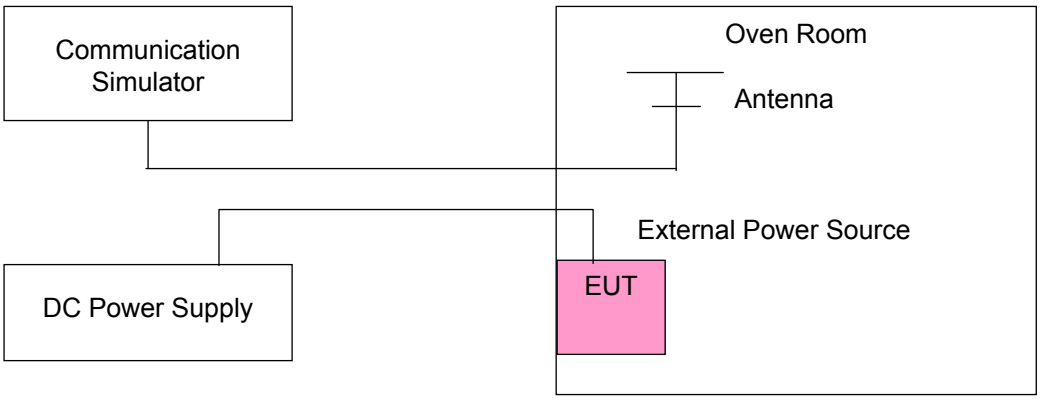
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

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 ℃ 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

Voltage (Volts)	Frequency Error (ppm)												Limit (ppm)
	LTE Band 2						LTE Band 25						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
4.35	-0.009	-0.009	-0.008	-0.008	-0.009	-0.008	-0.012	-0.009	-0.008	-0.008	-0.008	-0.009	2.5
3.8	-0.008	-0.008	-0.007	-0.007	-0.007	-0.006	-0.011	-0.010	-0.007	-0.007	-0.007	-0.008	2.5
3.5	-0.007	-0.007	-0.007	-0.007	-0.007	-0.007	-0.010	-0.011	-0.008	-0.007	-0.008	-0.008	2.5

Note: The applicant defined the normal working voltage is from 3.5Vdc to 4.35Vdc.

Frequency Error vs. Temperature

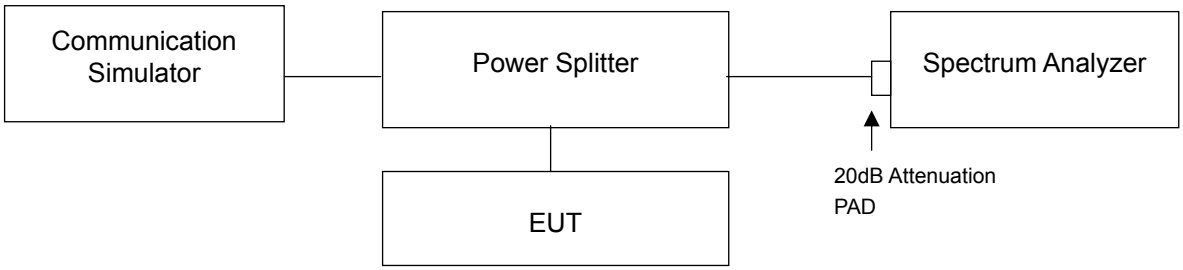
Temp. (℃)	Frequency Error (ppm)												Limit (ppm)
	LTE Band 2						LTE Band 25						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
55	-0.012	-0.014	-0.015	-0.013	-0.011	-0.012	-0.017	-0.014	-0.014	-0.013	-0.014	-0.012	2.5
50	-0.012	-0.016	-0.015	-0.012	-0.013	-0.013	-0.016	-0.013	-0.014	-0.014	-0.013	-0.012	2.5
40	-0.013	-0.015	-0.013	-0.013	-0.013	-0.011	-0.018	-0.014	-0.013	-0.013	-0.013	-0.013	2.5
30	-0.010	-0.011	-0.010	-0.010	-0.011	-0.009	-0.014	-0.012	-0.010	-0.008	-0.010	-0.009	2.5
20	-0.008	-0.008	-0.007	-0.007	-0.007	-0.006	-0.011	-0.010	-0.007	-0.007	-0.007	-0.008	2.5
10	-0.013	-0.010	-0.011	-0.011	-0.010	-0.010	-0.014	-0.007	-0.008	-0.011	-0.011	-0.010	2.5
0	-0.015	-0.014	-0.015	-0.015	-0.013	-0.012	-0.016	-0.011	-0.012	-0.010	-0.014	-0.013	2.5
-10	-0.018	-0.019	-0.018	-0.018	-0.016	-0.015	-0.019	-0.016	-0.015	-0.014	-0.016	-0.011	2.5
-20	-0.019	-0.017	-0.019	-0.018	-0.019	-0.016	-0.020	-0.017	-0.018	-0.016	-0.019	-0.014	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

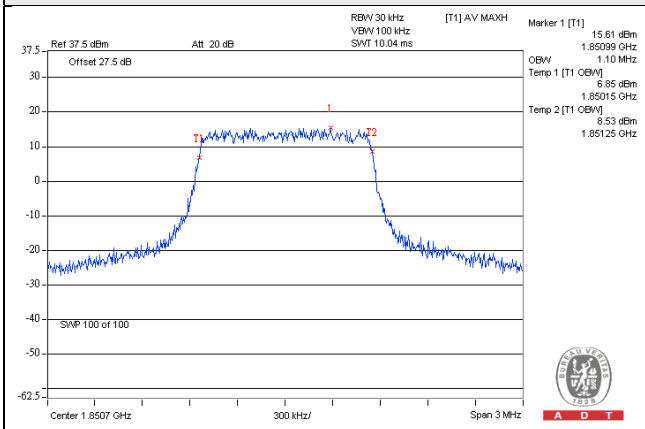


4.3.3 Test Result

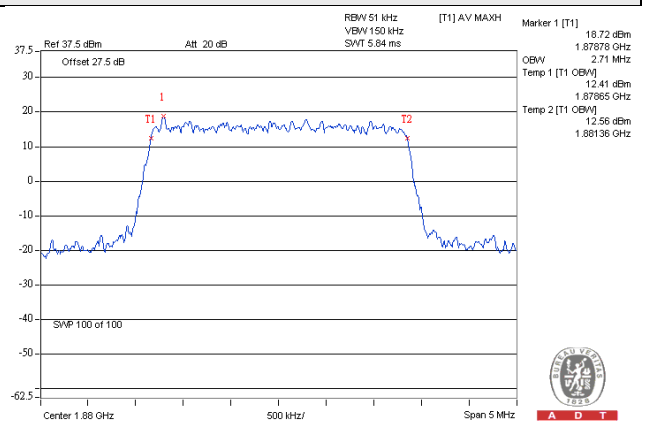
LTE Band 2							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.10	1.09	18615	1851.5	2.69	2.71
18900	1880	1.09	1.10	18900	1880	2.71	2.69
19193	1909.3	1.09	1.09	19185	1908.5	2.68	2.69
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.48	4.48	18650	1855	8.93	8.93
18900	1880	4.47	4.47	18900	1880	8.93	8.93
19175	1907.5	4.48	4.48	19150	1905	8.93	8.97
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.43	13.40	18700	1860	17.93	17.93
18900	1880	13.40	13.37	18900	1880	17.93	17.93
19125	1902.5	13.37	13.40	19100	1900	17.93	17.93

Spectrum Plot Of Worst Value

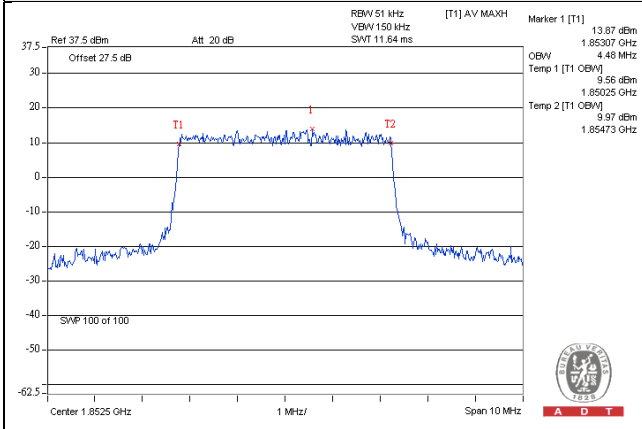
1.4MHz / QPSK



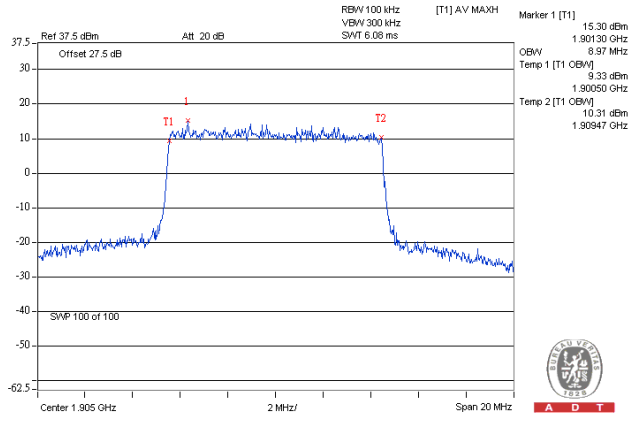
3MHz / QPSK



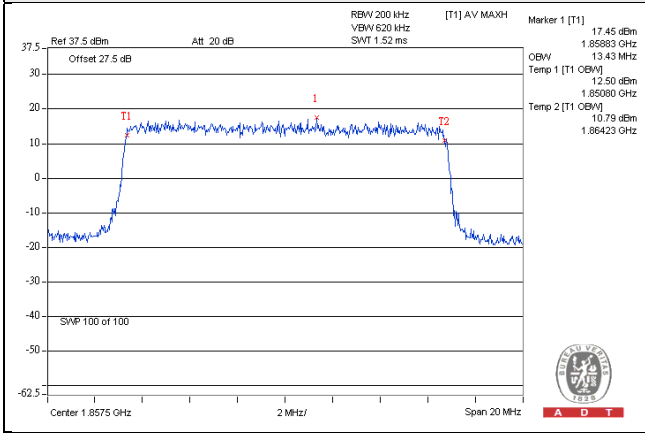
5MHz / QPSK



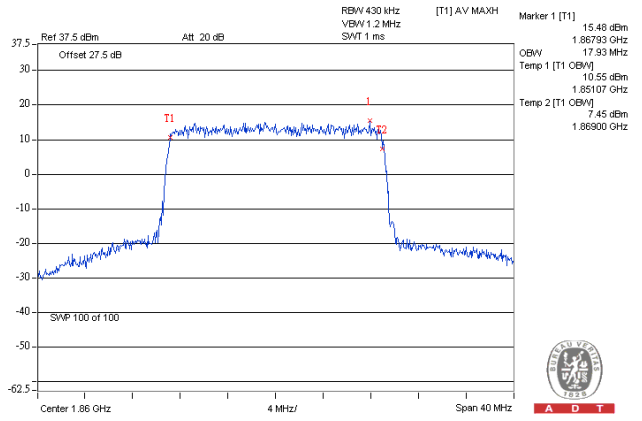
10MHz / 16QAM



15MHz / QPSK



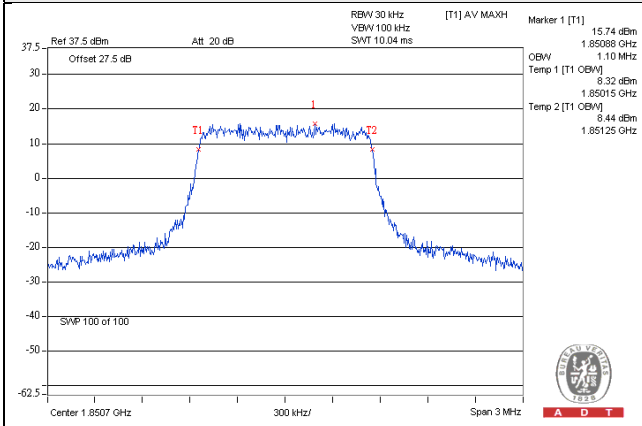
20MHz / QPSK



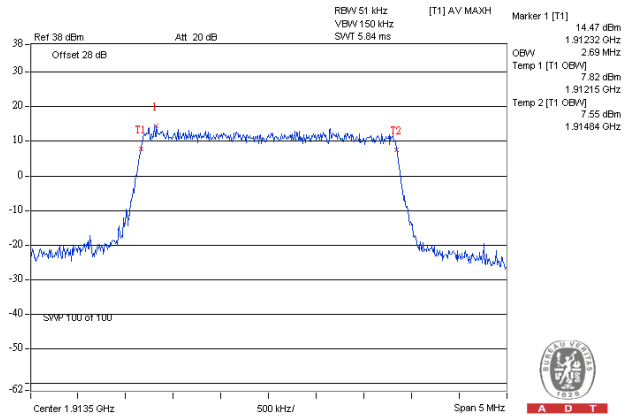
LTE Band 25							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	1.10	1.10	26055	1851.5	2.68	2.68
26365	1882.5	1.09	1.09	26365	1882.5	2.68	2.68
26683	1914.3	1.10	1.09	26675	1913.5	2.69	2.69
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.47	4.48	26090	1855	8.93	8.93
26365	1882.5	4.48	4.48	26365	1882.5	8.93	8.93
26665	1912.5	4.47	4.47	26640	1910	8.93	8.93
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	13.40	13.43	26140	1860	17.93	17.93
26365	1882.5	13.40	13.40	26365	1882.5	17.93	17.93
26615	1907.5	13.40	13.37	26590	1905	17.93	17.87

Spectrum Plot Of Worst Value

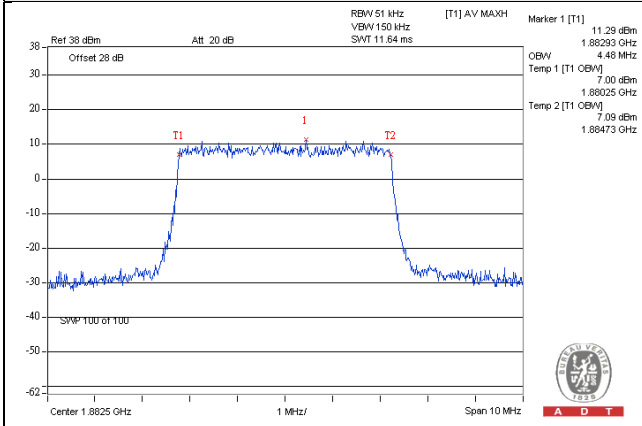
1.4MHz / QPSK



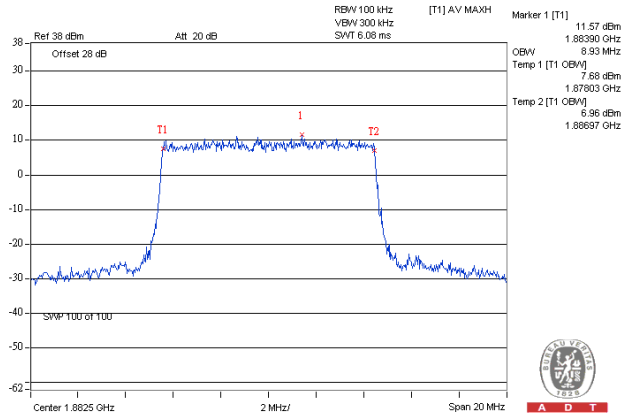
3MHz / QPSK



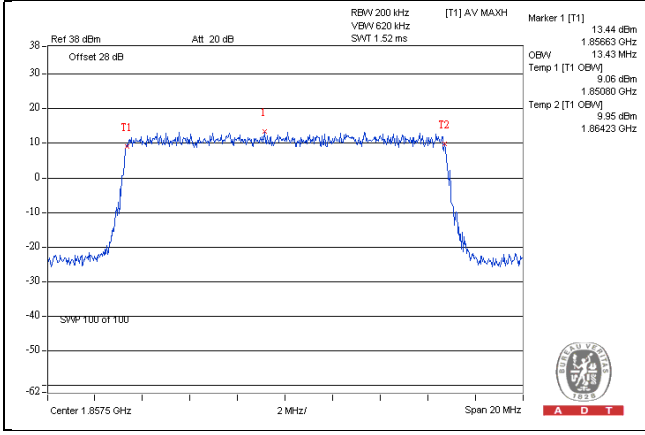
5MHz / QPSK



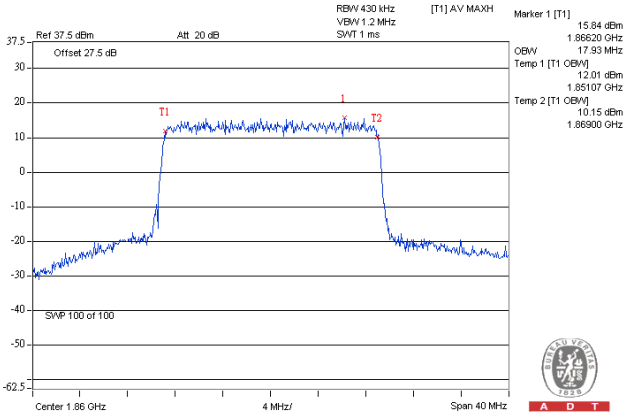
10MHz / QPSK



15MHz / 16QAM



20MHz / QPSK

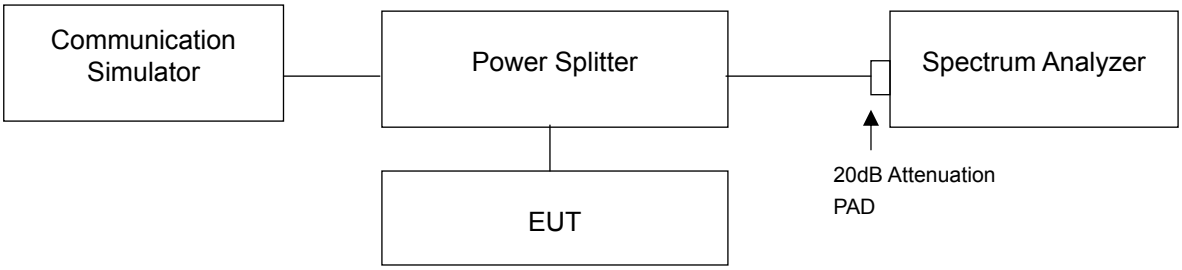


4.4 Band Edge Measurement

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 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 1.4MHz and 3MHz).

c. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 51kHz and VB of the spectrum is 150kHz (LTE Channel Bandwidth 5MHz).

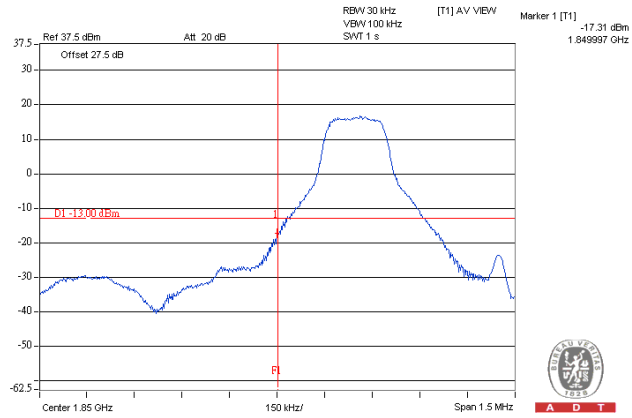
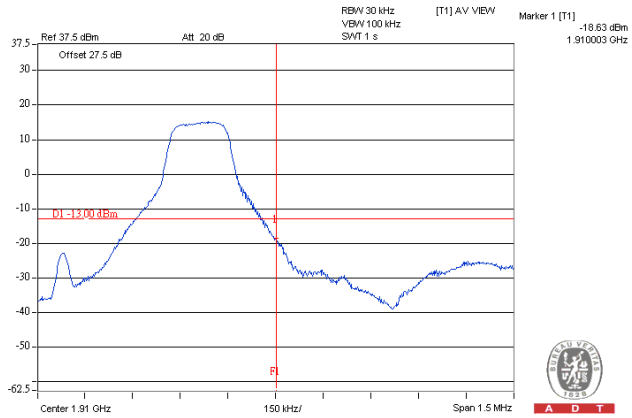
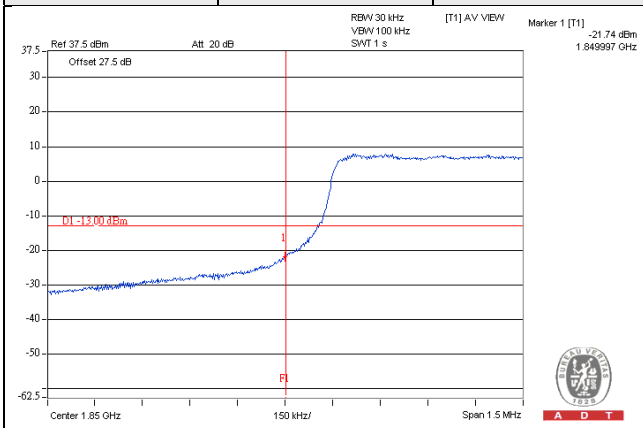
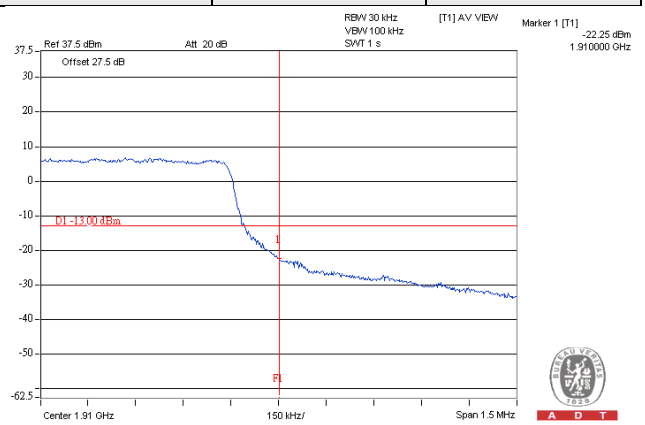
d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 10MHz).

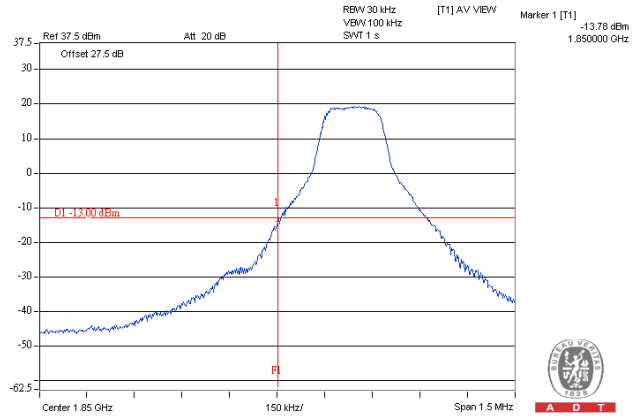
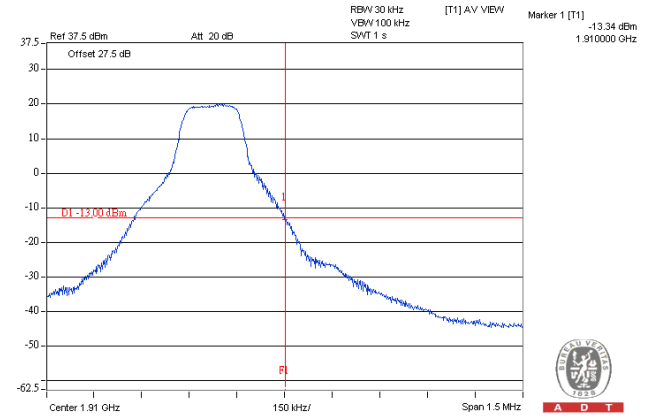
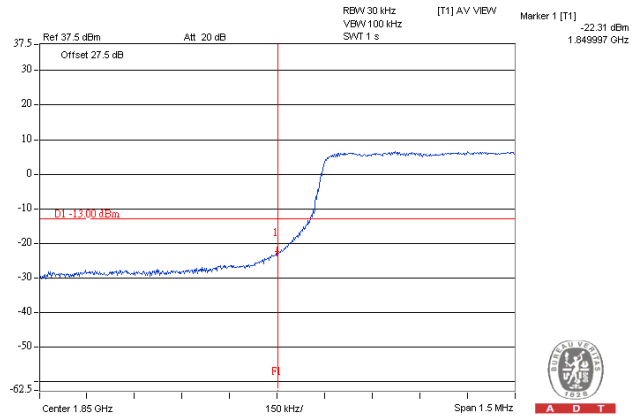
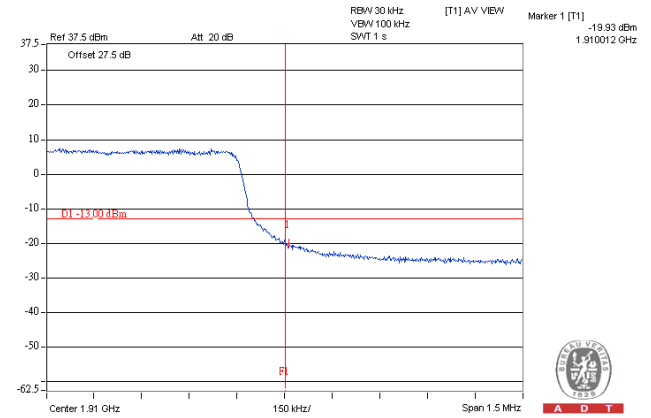
e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 200kHz and VB of the spectrum is 620kHz (LTE Channel Bandwidth 15MHz).

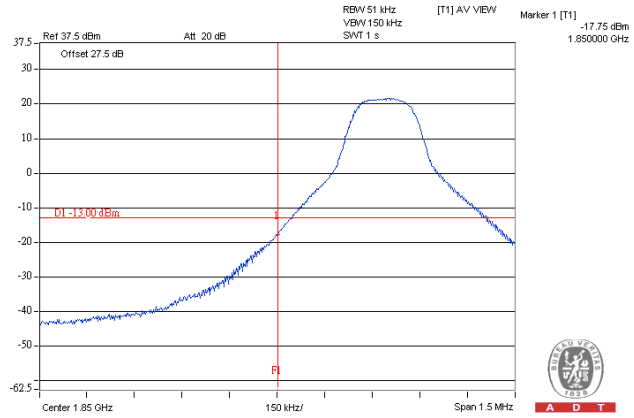
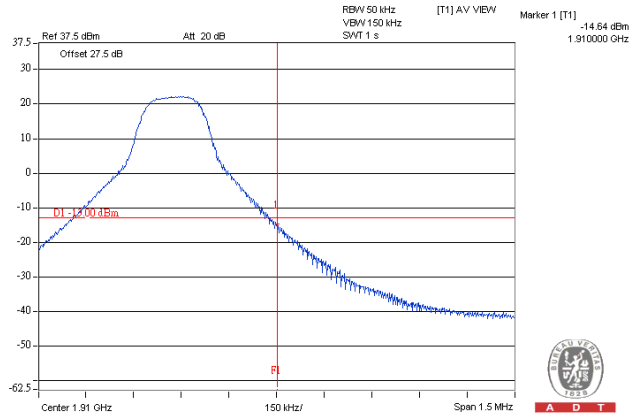
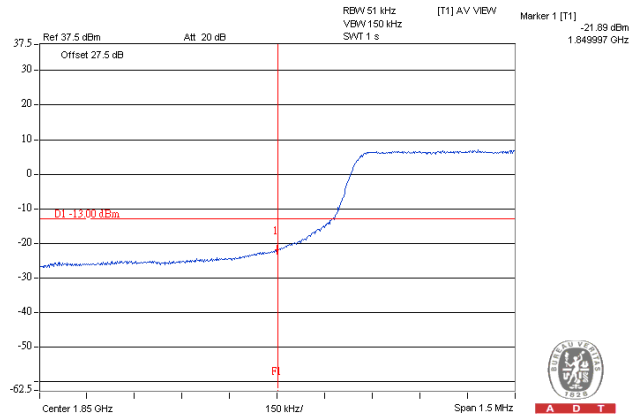
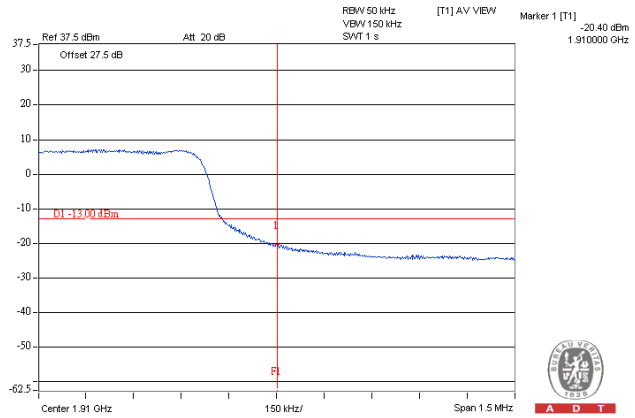
f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 430kHz and VB of the spectrum is 1200kHz (LTE Channel Bandwidth 20MHz).

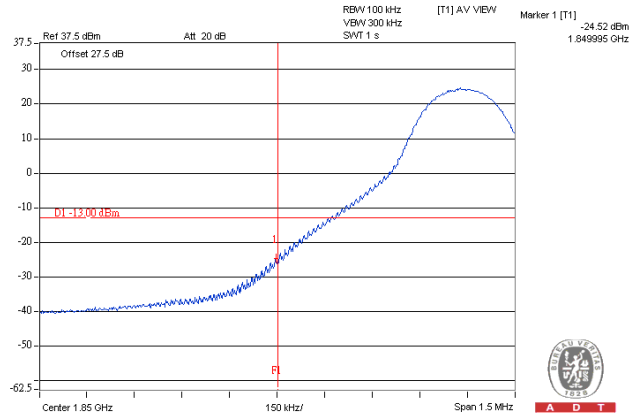
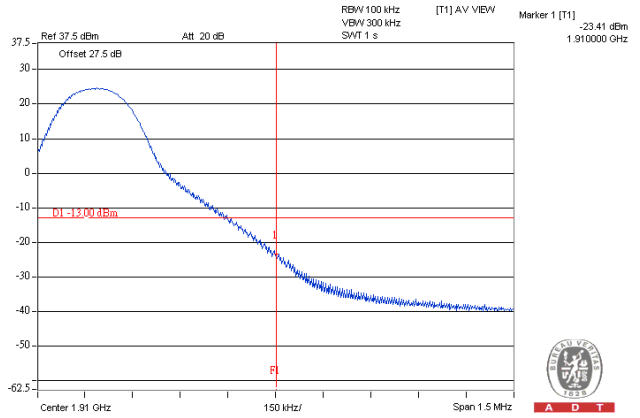
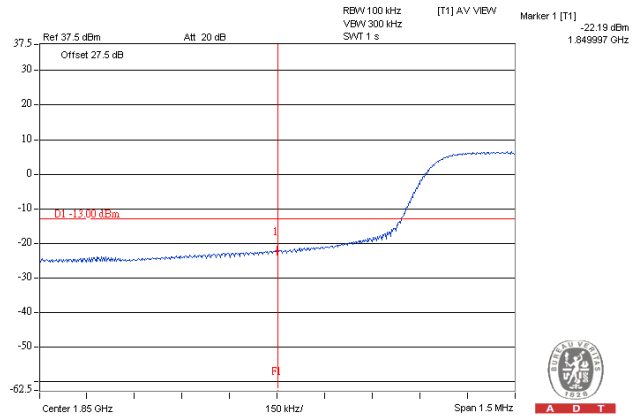
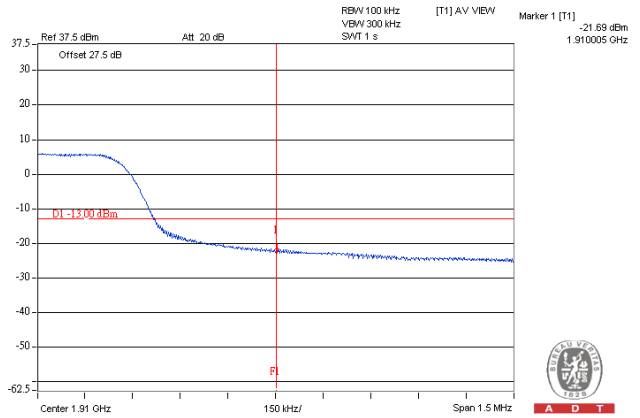
g. Record the max trace plot into the test report.

4.4.4 Test Results

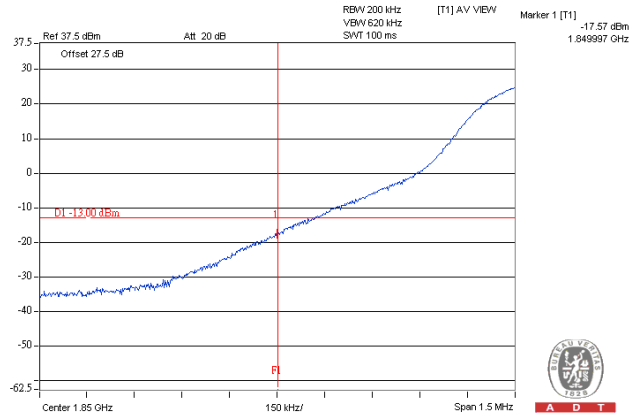
LTE Band 2					
Channel Bandwidth 1.4MHz					
Channel	18607	1 RB	Channel	19193	1 RB
					
Channel	18607	6 RB	Channel	19193	6 RB
					

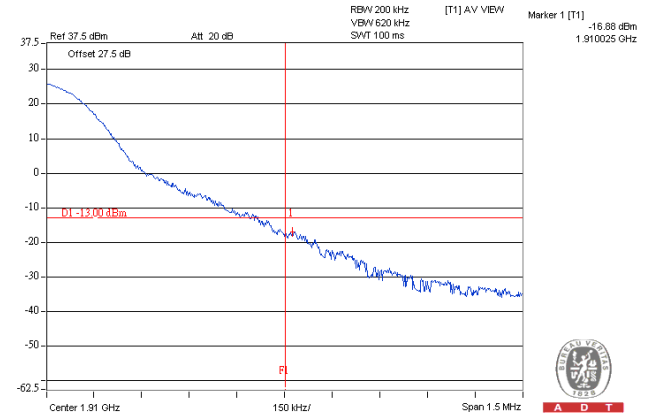
LTE Band 2					
Channel Bandwidth 3MHz					
Channel	18615	1 RB	Channel	19185	1 RB
					
Channel	18615	15 RB	Channel	19185	15 RB
					

LTE Band 2					
Channel Bandwidth 5MHz					
Channel	18625	1 RB	Channel	19175	1 RB
					
Channel	18625	25 RB	Channel	19175	25 RB
					

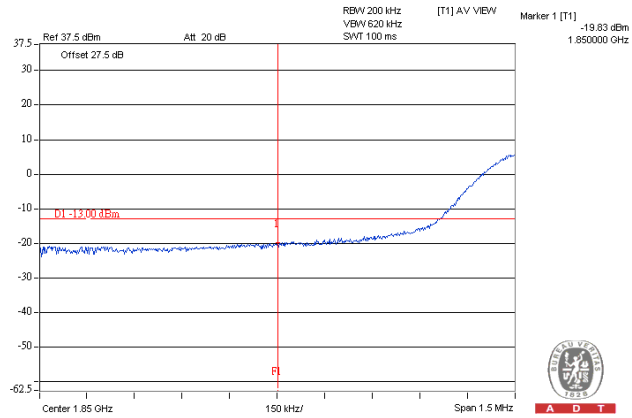
LTE Band 2					
Channel Bandwidth 10MHz					
Channel	18650	1 RB	Channel	19150	1 RB
					
Channel	18650	50 RB	Channel	19150	50 RB
					

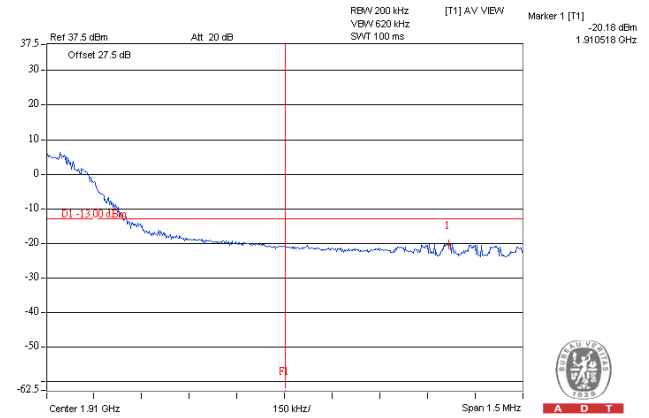
LTE Band 2					
Channel Bandwidth 15MHz					
Channel	18675	1 RB	Channel	19125	1 RB

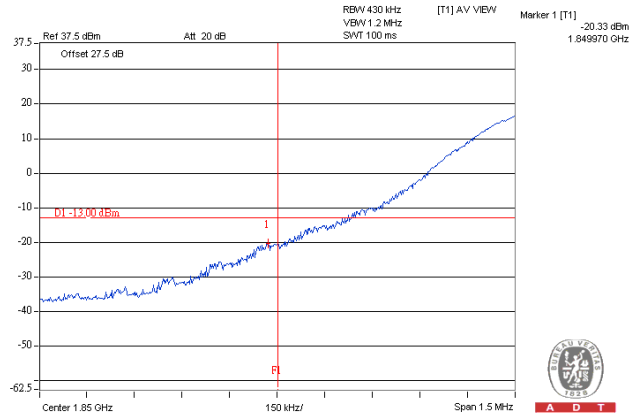
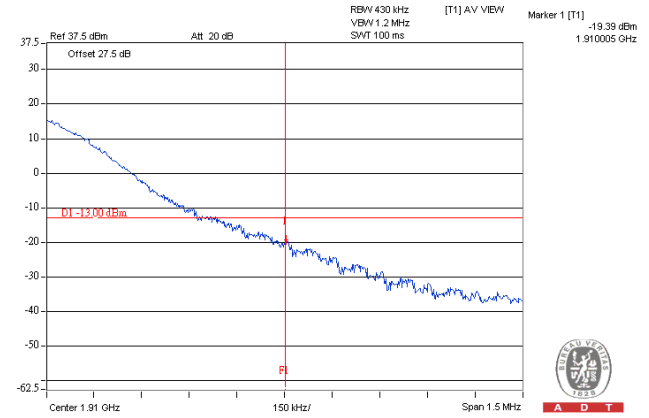
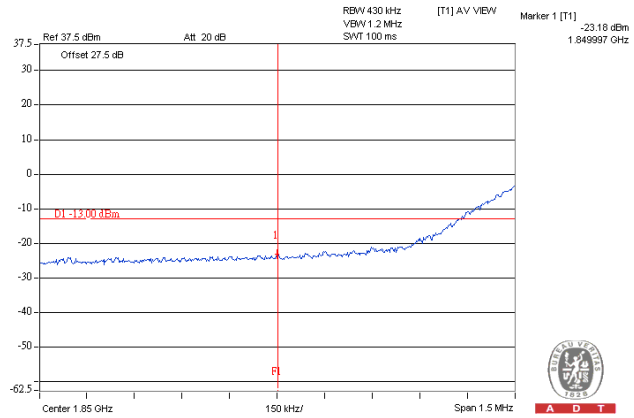
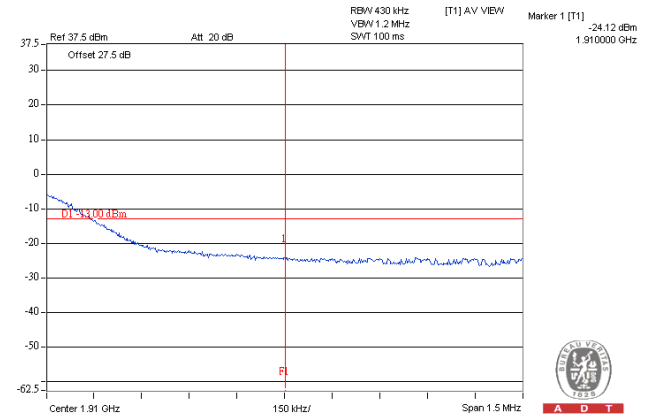


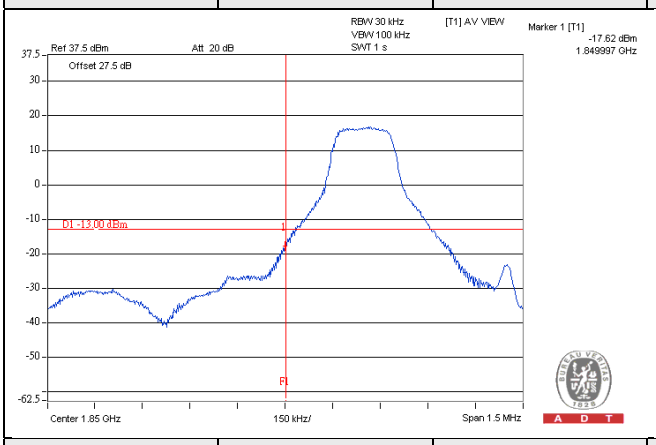
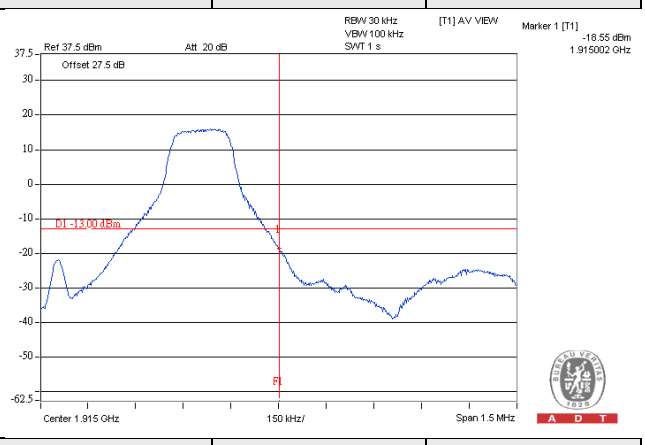
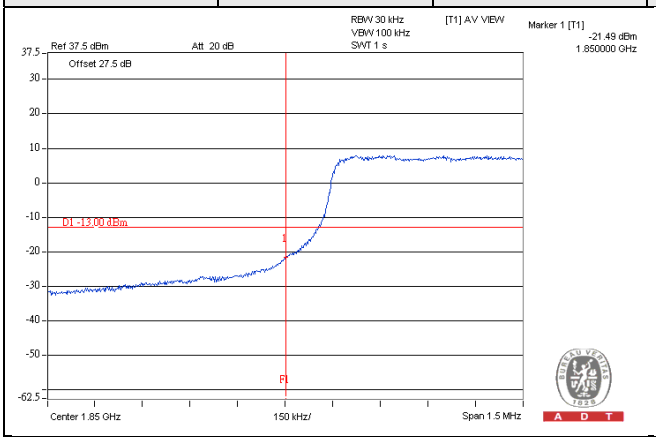
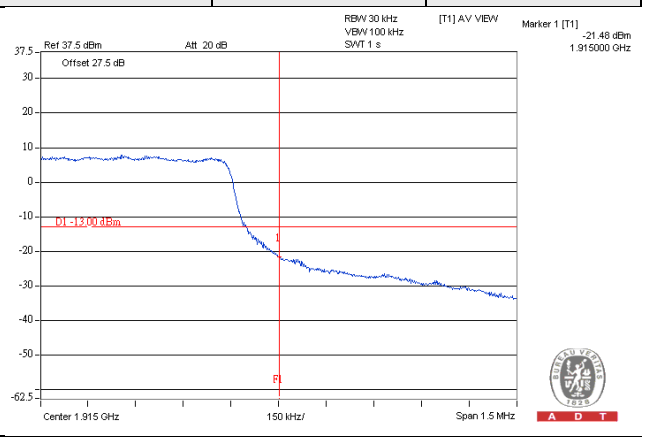


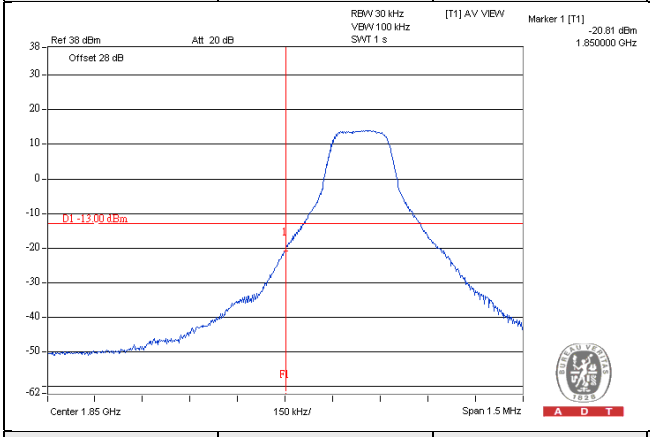
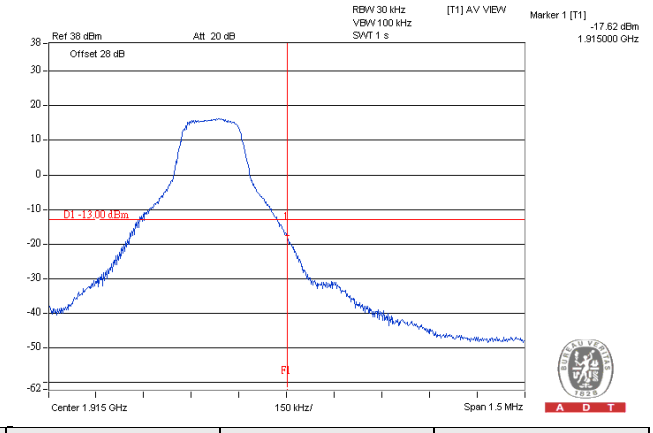
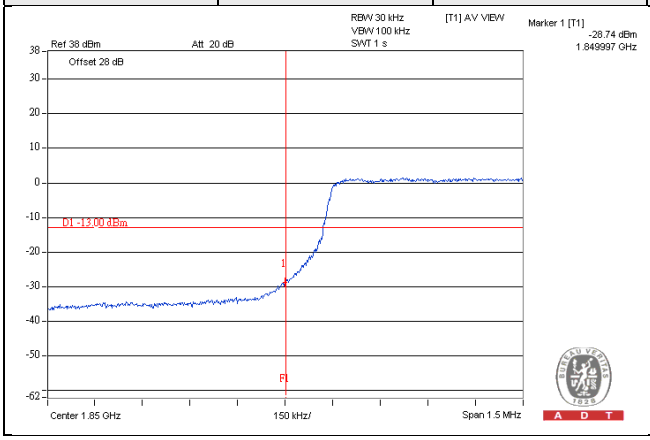
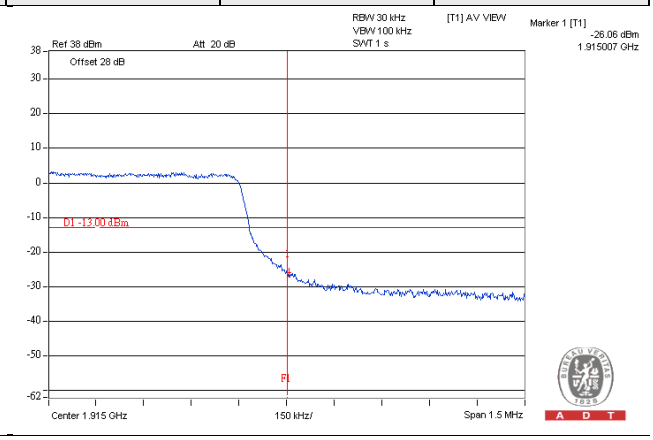
Channel	18675	75 RB	Channel	19125	75 RB

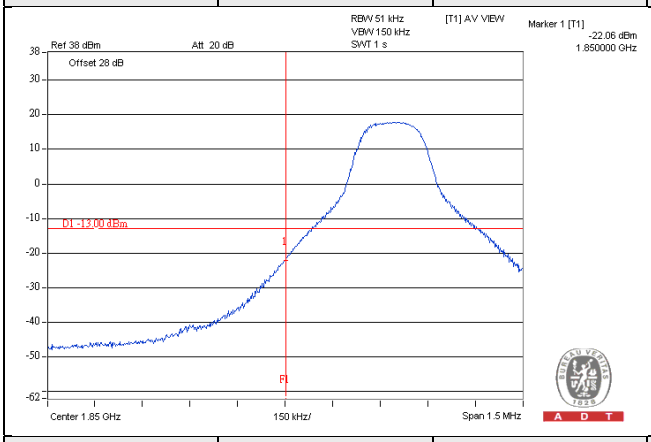
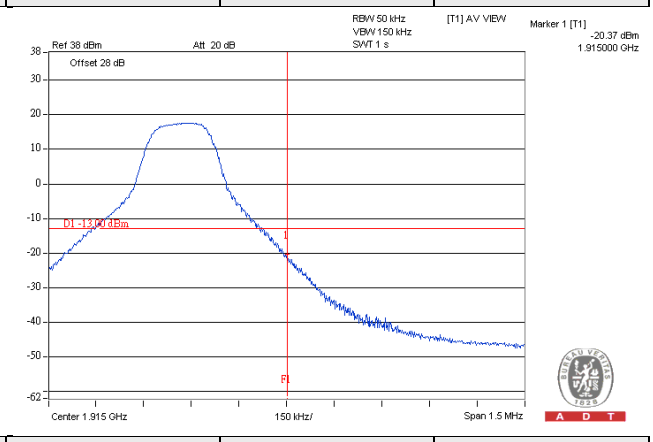
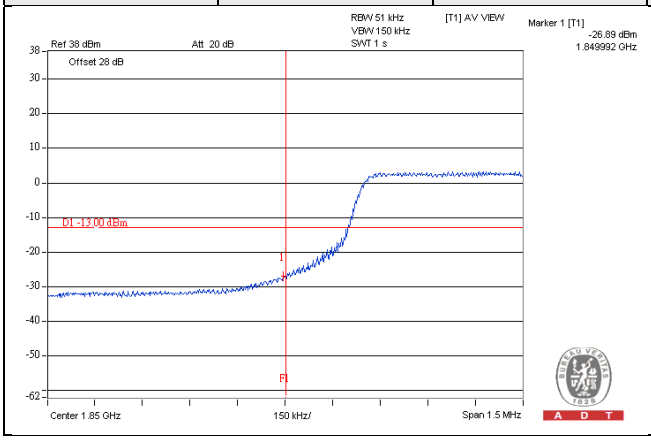
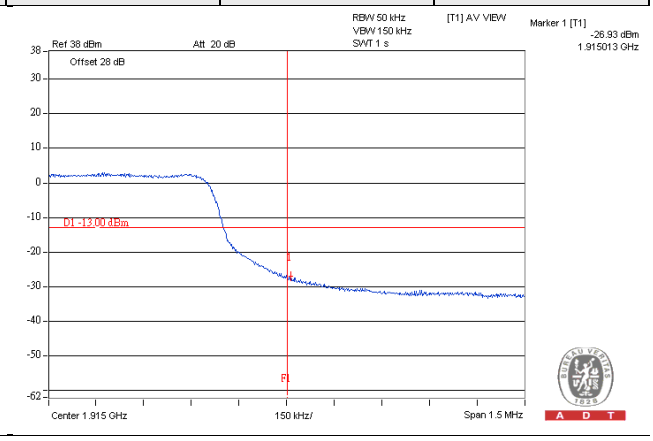


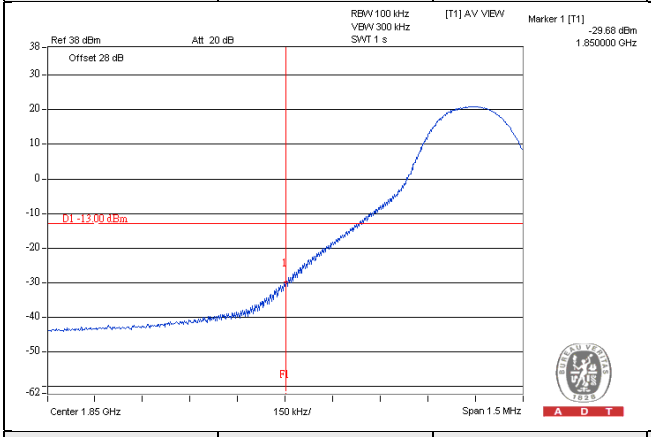
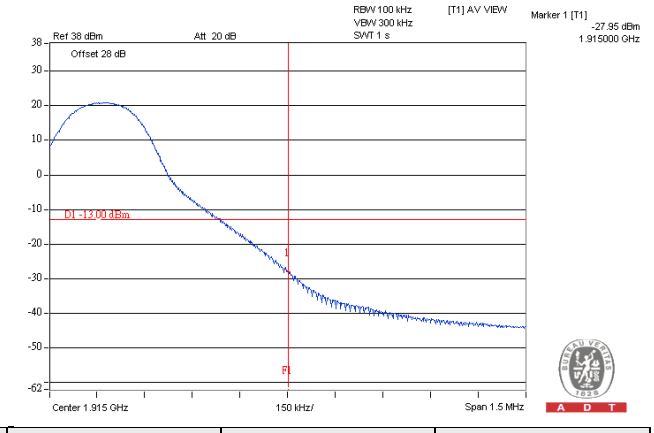
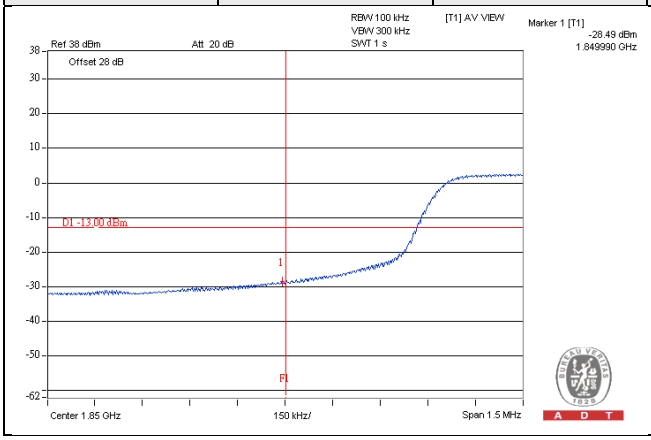
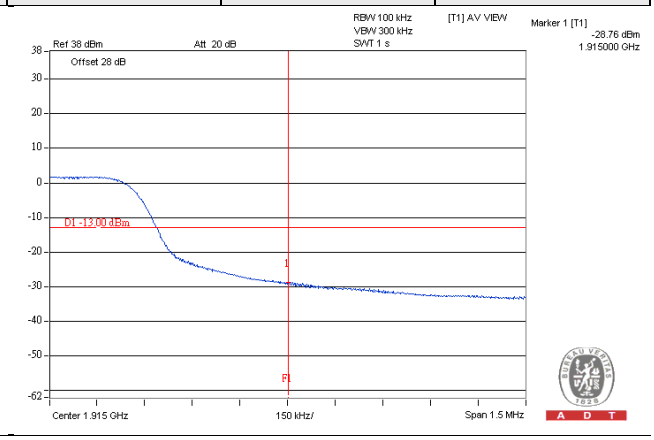


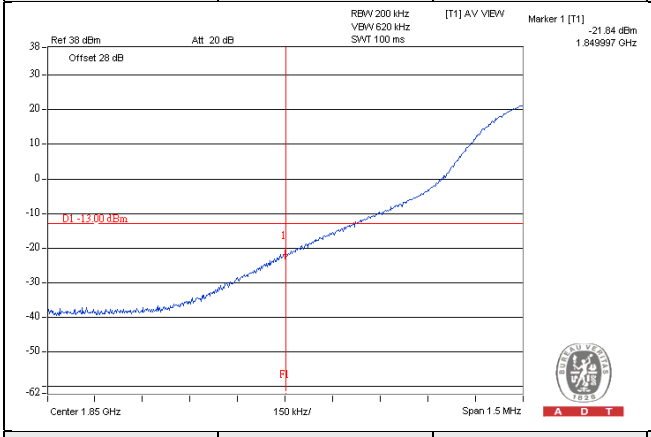
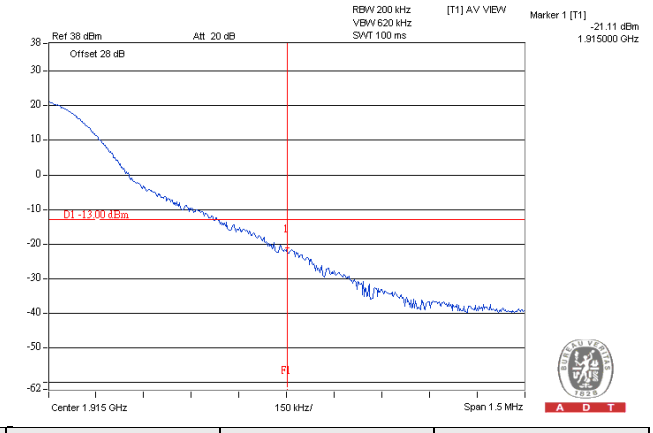
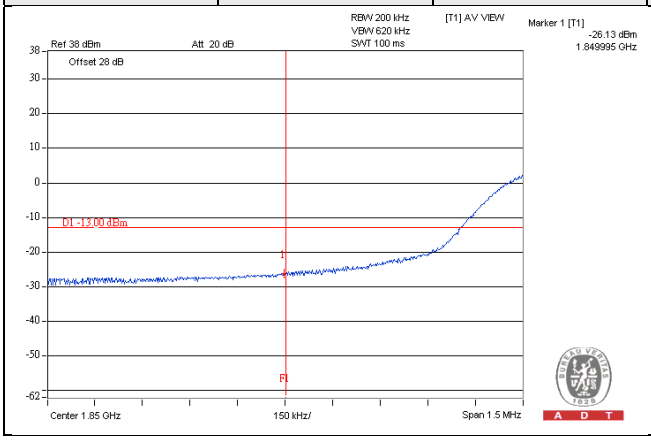
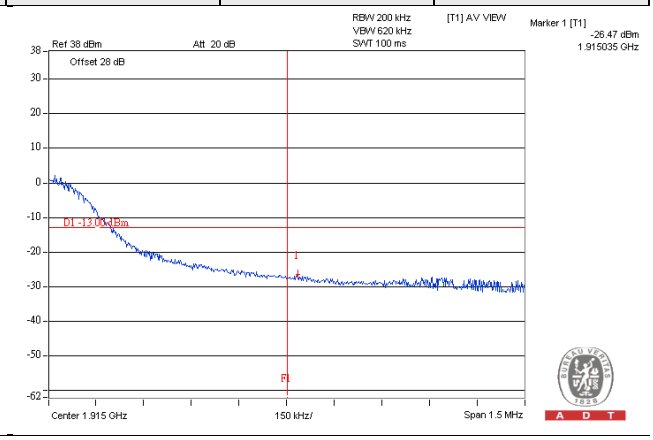
LTE Band 2					
Channel Bandwidth 20MHz					
Channel	18700	1 RB	Channel	19100	1 RB
					
Channel	18700	100 RB	Channel	19100	100 RB
					

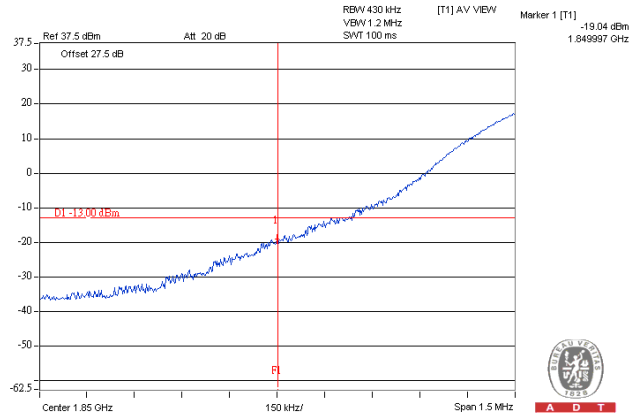
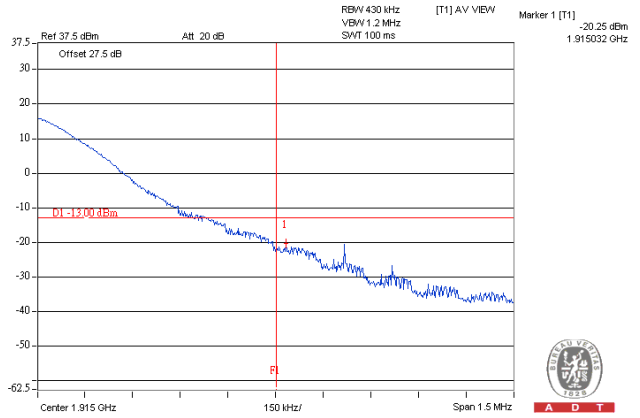
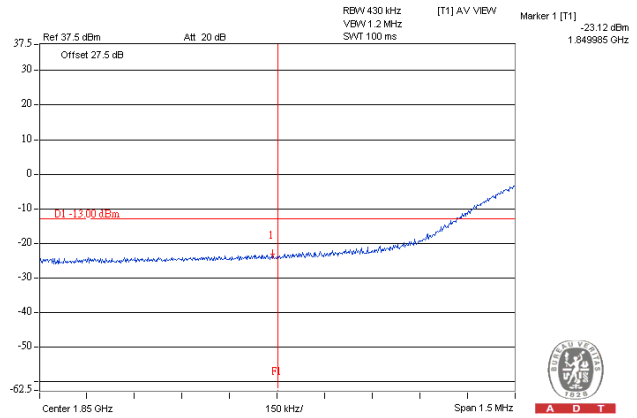
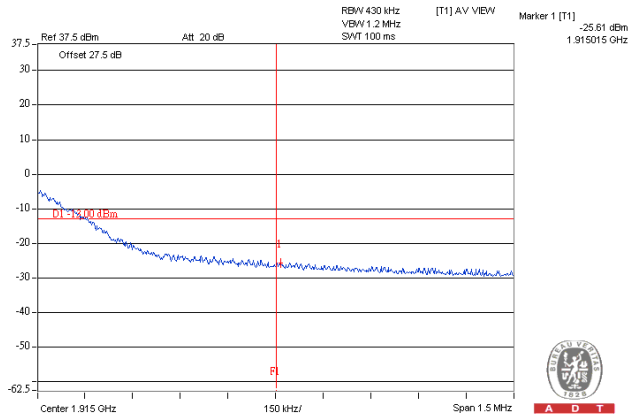
LTE Band 25					
Channel Bandwidth 1.4MHz					
Channel	26047	1 RB	Channel	26683	1 RB
					
Channel	26047	6 RB	Channel	26683	6 RB
					

LTE Band 25					
Channel Bandwidth 3MHz					
Channel	26055	1 RB	Channel	26675	1 RB
					
Channel	26055	15 RB	Channel	26675	15 RB
					

LTE Band 25					
Channel Bandwidth 5MHz					
Channel	26065	1 RB	Channel	26665	1 RB
					
Channel	26065	25 RB	Channel	26665	25 RB
					

LTE Band 25					
Channel Bandwidth 10MHz					
Channel	26090	1 RB	Channel	26640	1 RB
					
Channel	26090	50 RB	Channel	26640	50 RB
					

LTE Band 25					
Channel Bandwidth 15MHz					
Channel	26115	1 RB	Channel	26615	1 RB
					
Channel	26115	75 RB	Channel	26615	75 RB
					

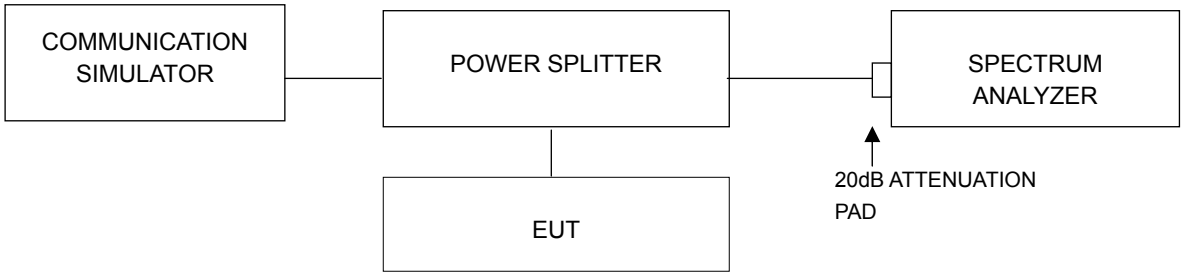
LTE Band 25					
Channel Bandwidth 20MHz					
Channel	26140	1 RB	Channel	26590	1 RB
					
Channel	26140	100 RB	Channel	26590	100 RB
					

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

a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;

b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. Record the maximum PAPR level associated with a probability of 0.1%.

4.5.4 Test Results

LTE Band 2							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.47	4.51	18615	1851.5	4.46	4.63
18900	1880	4.65	4.56	18900	1880	4.68	4.81
19193	1909.3	4.45	4.36	19185	1908.5	4.61	4.61
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.89	4.86	18650	1855	4.98	4.87
18900	1880	4.96	4.88	18900	1880	4.99	4.96
19175	1907.5	4.88	4.83	19150	1905	5.00	4.98
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	5.13	5.22	18700	1860	5.20	5.24
18900	1880	5.03	5.18	18900	1880	5.09	5.15
19125	1902.5	5.06	5.14	19100	1900	5.09	5.13

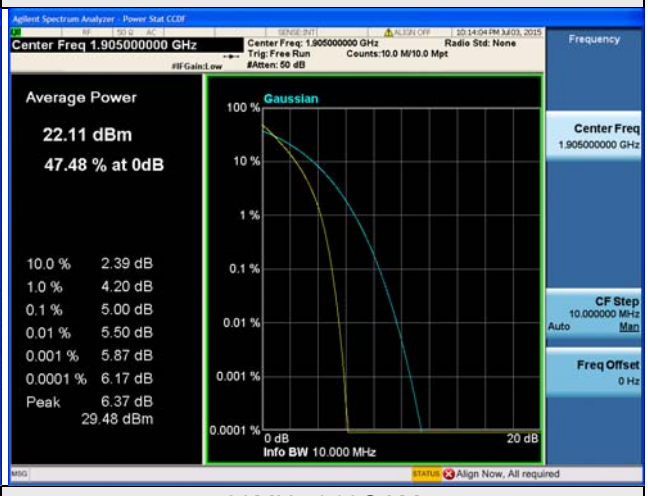
Spectrum Plot Of Worst Value

1.4MHz / QPSK

3MHz / 16QAM

5MHz / QPSK

10MHz / QPSK



15MHz / 16QAM

20MHz / 16QAM

LTE Band 25							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.66	4.64	26055	1851.5	4.81	4.69
26365	1882.5	4.66	4.64	26365	1882.5	4.73	4.56
26683	1914.3	4.45	4.30	26675	1913.5	4.57	4.41
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.91	4.91	26090	1855	4.84	4.79
26365	1882.5	4.88	4.88	26365	1882.5	4.73	4.68
26665	1912.5	4.75	4.79	26640	1910	4.65	4.63
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	5.23	5.21	26140	1860	5.27	5.24
26365	1882.5	5.21	5.16	26365	1882.5	5.19	5.17
26615	1907.5	5.22	5.19	26590	1905	5.21	5.22

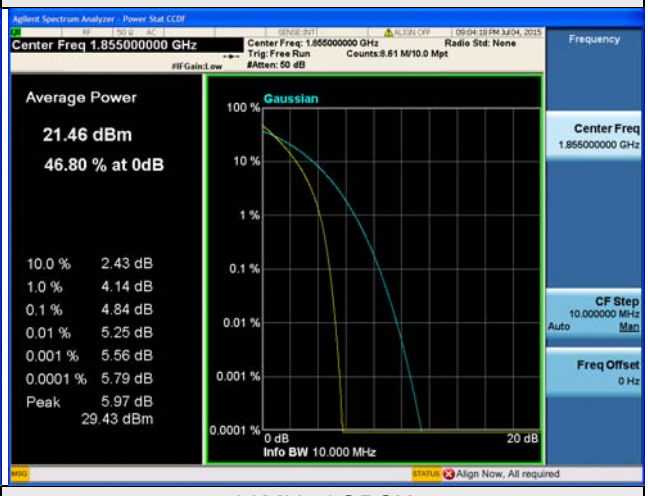
Spectrum Plot Of Worst Value

1.4MHz / QPSK

3MHz / QPSK

5MHz / QPSK

10MHz / QPSK



15MHz / QPSK

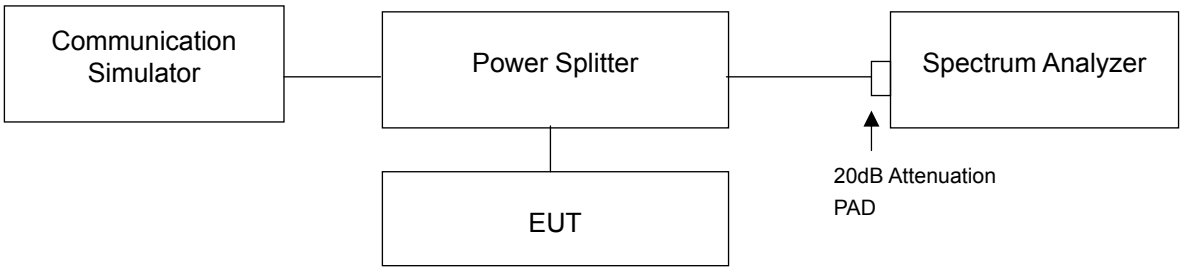
20MHz / QPSK

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 –13dBm.

4.6.2 Test Setup

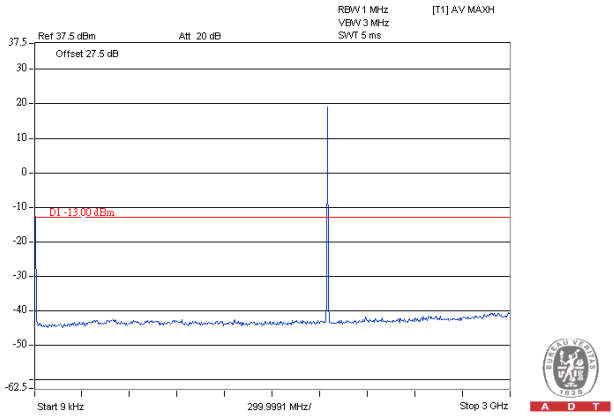
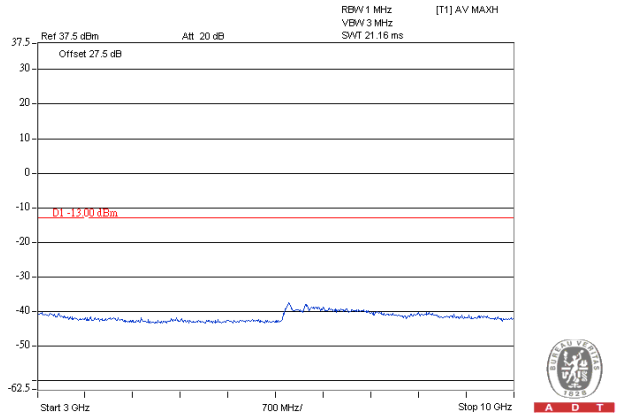
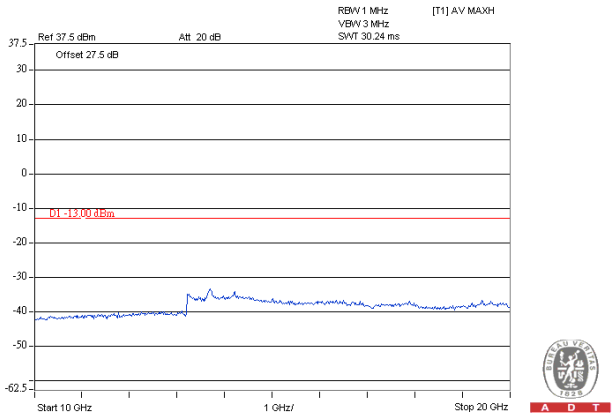


4.6.3 Test Procedure

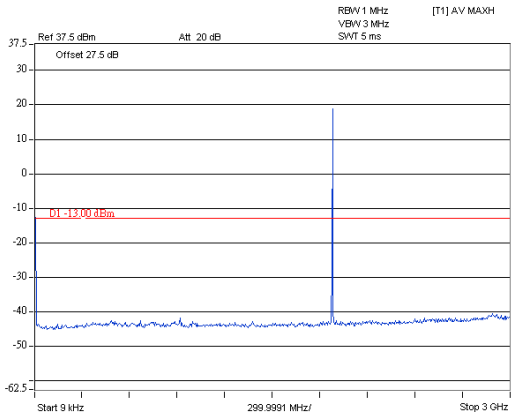
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

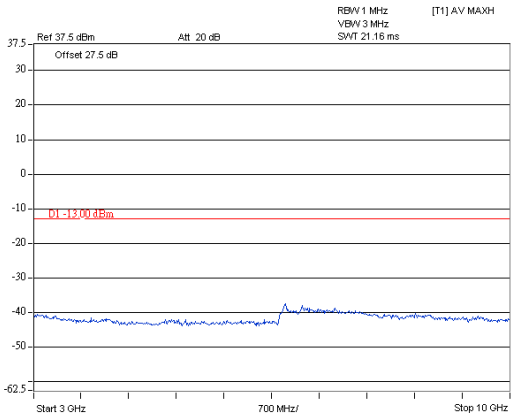
b. Measuring frequency range is from 9 kHz to 20GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.6.4 Test Results

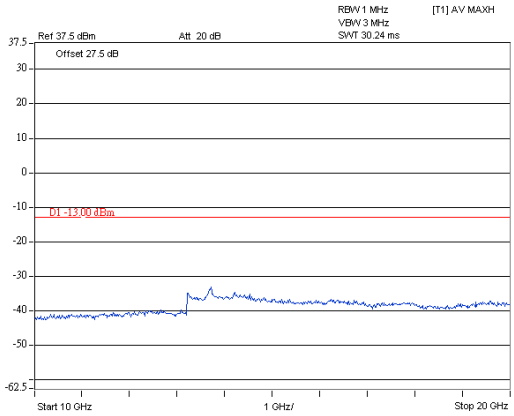
LTE Band 2 Channel Band width: 1.4MHz	
Channel 18607	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz
	
Frequency Range : 10GHz~20GHz	
	

LTE Band 2 Channel Band width: 1.4MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

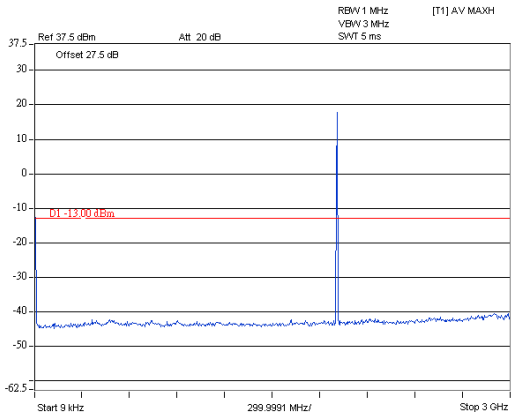


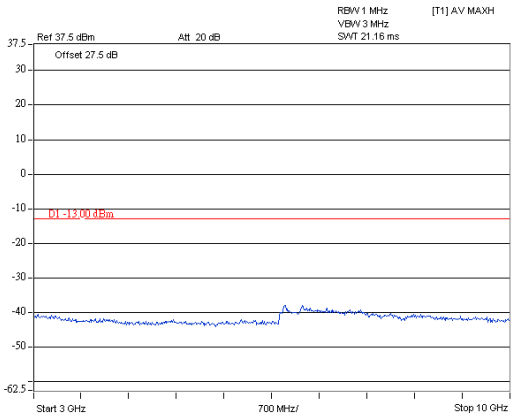


Frequency Range : 10GHz~20GHz	

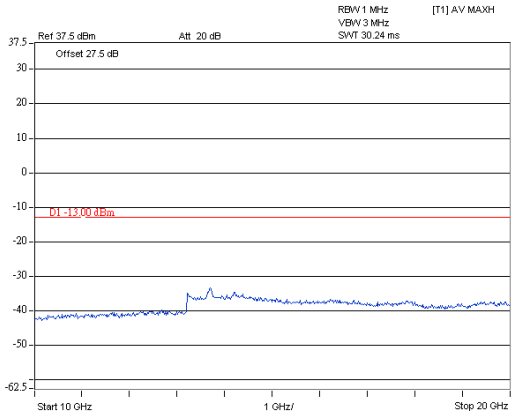


LTE Band 2 Channel Band width: 1.4MHz	
Channel 19193	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

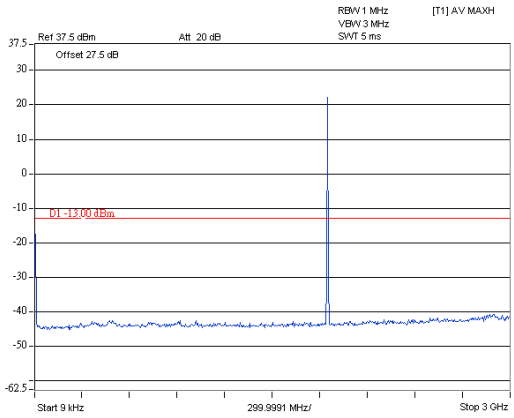


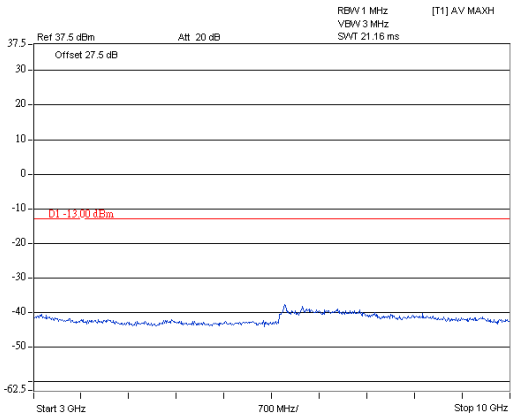


Frequency Range : 10GHz~20GHz	

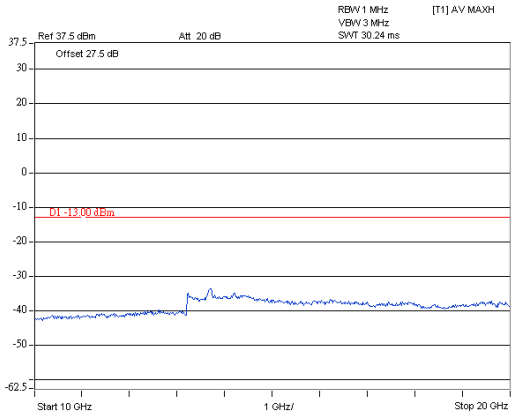


LTE Band 2 Channel Band width: 3MHz	
Channel 18615	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

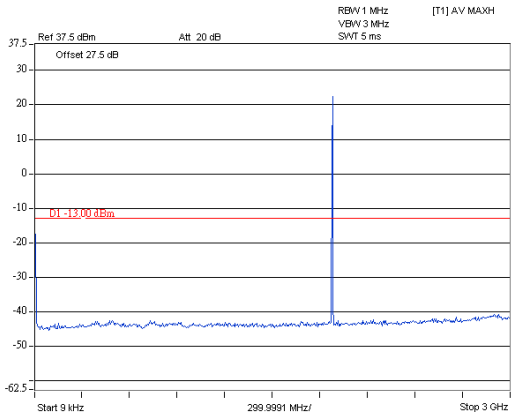


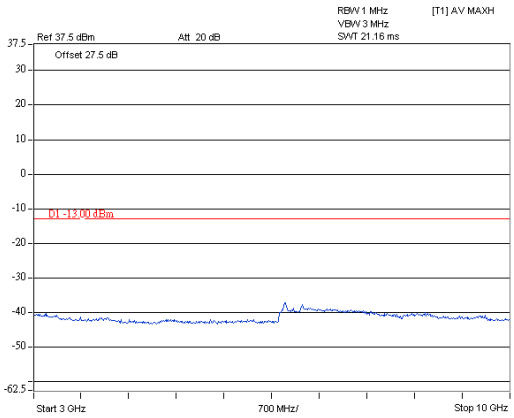


Frequency Range : 10GHz~20GHz	

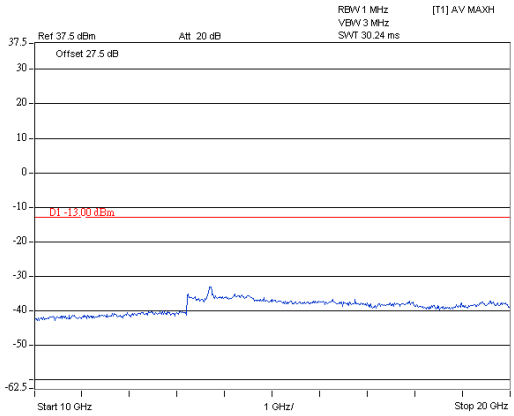


LTE Band 2 Channel Band width: 3MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

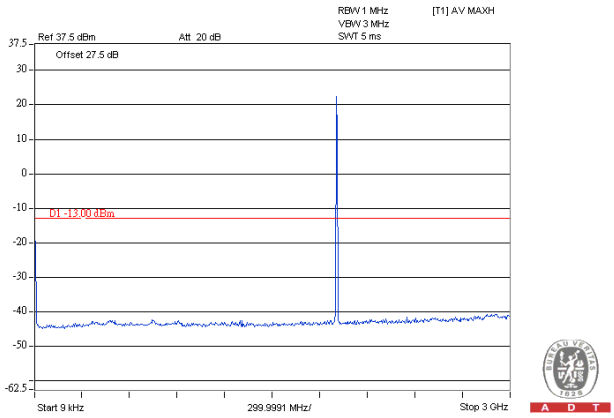


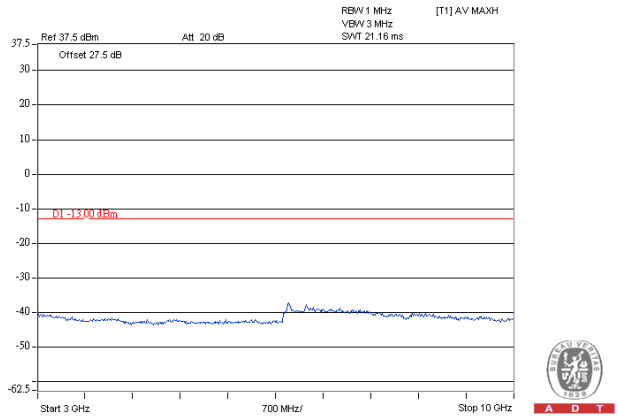


Frequency Range : 10GHz~20GHz	

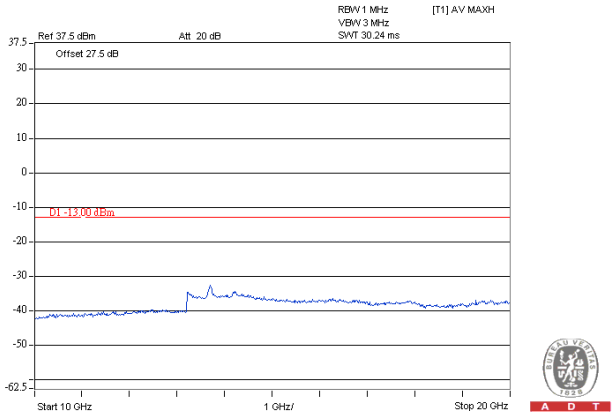


LTE Band 2 Channel Band width: 3MHz	
Channel 19185	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

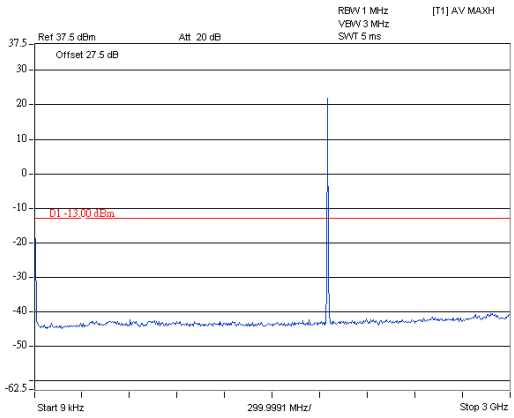


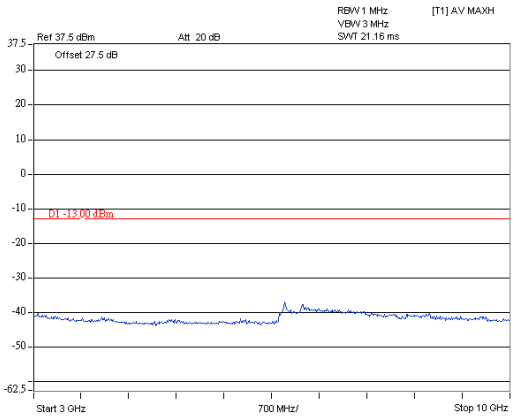


Frequency Range : 10GHz~20GHz	

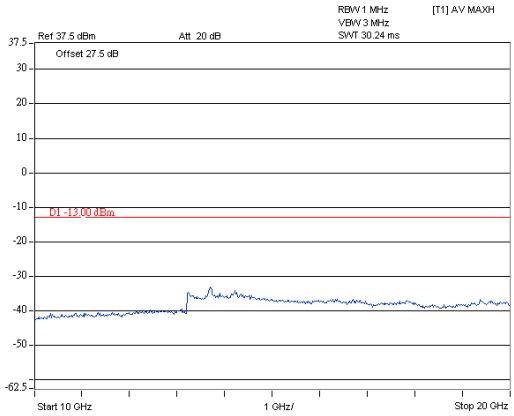


LTE Band 2 Channel Band width: 5MHz	
Channel 18625	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

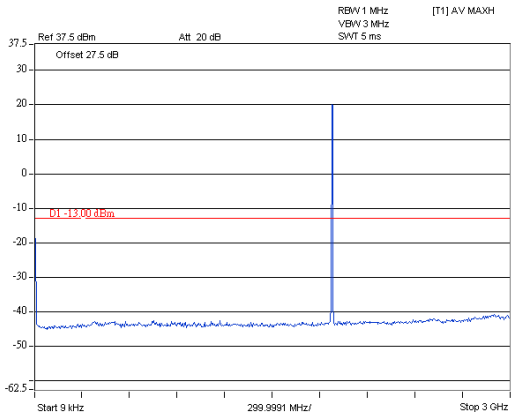


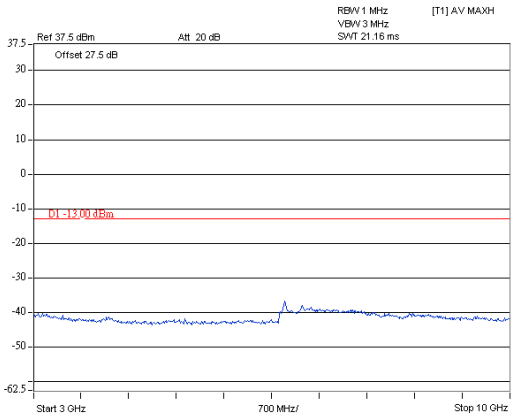


Frequency Range : 10GHz~20GHz	

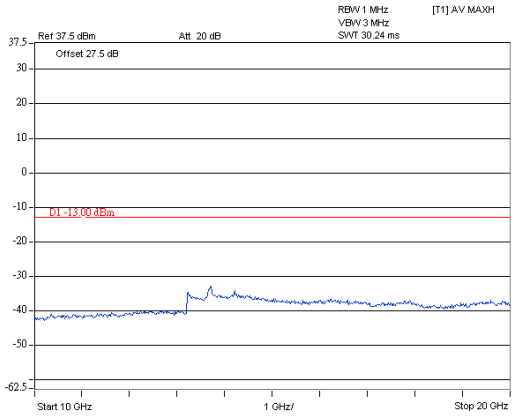


LTE Band 2 Channel Band width: 5MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

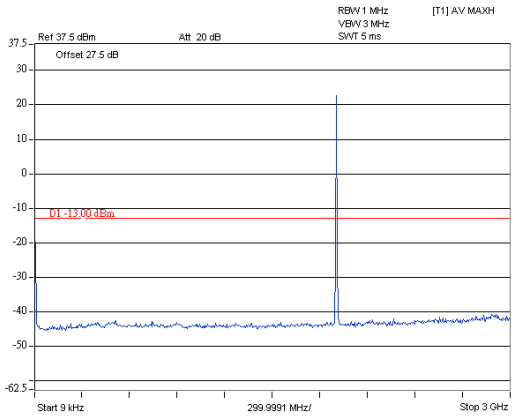


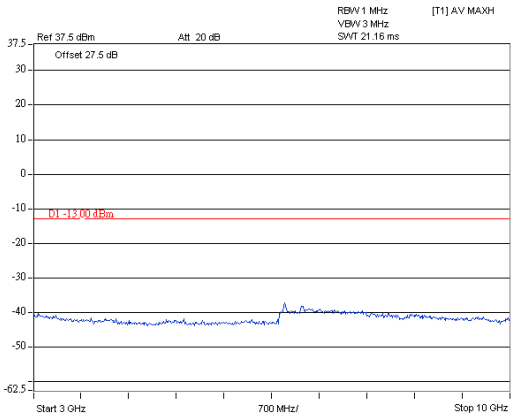


Frequency Range : 10GHz~20GHz	

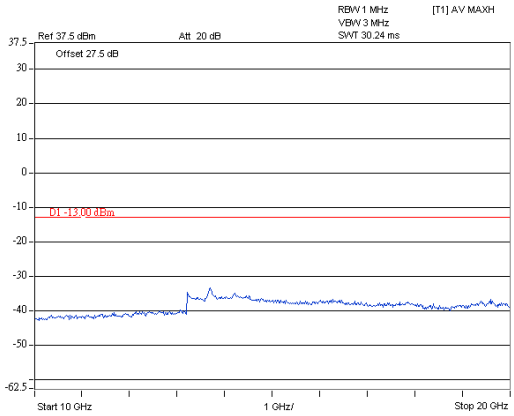


LTE Band 2 Channel Band width: 5MHz	
Channel 19175	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

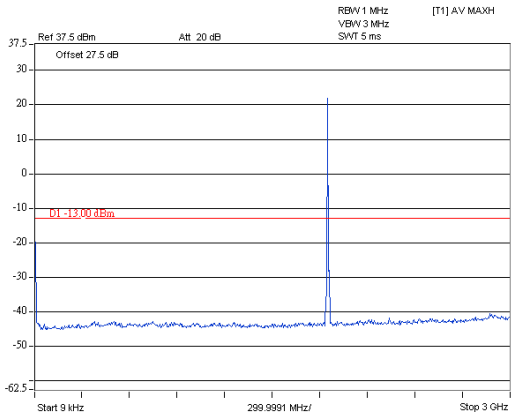


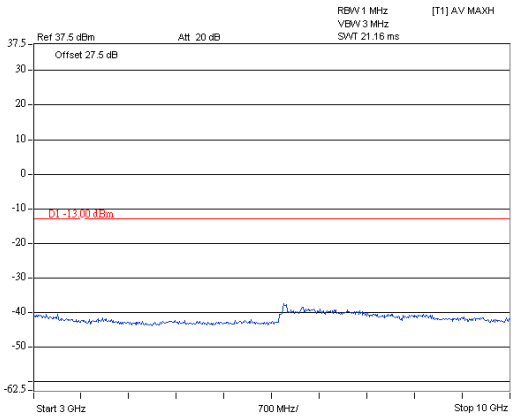


Frequency Range : 10GHz~20GHz	

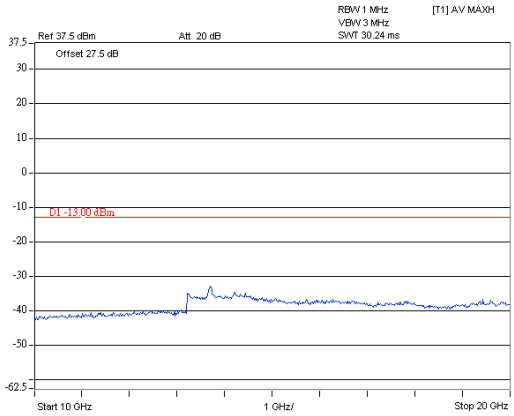


LTE Band 2 Channel Band width: 10MHz	
Channel 18650	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

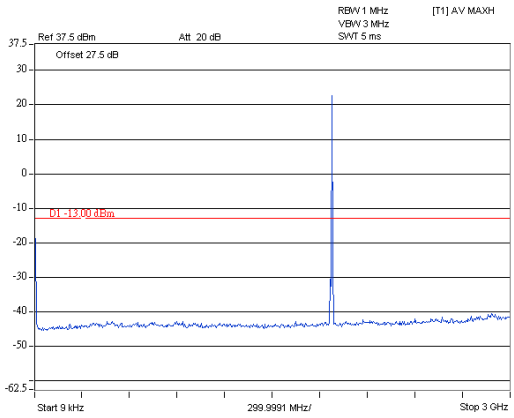


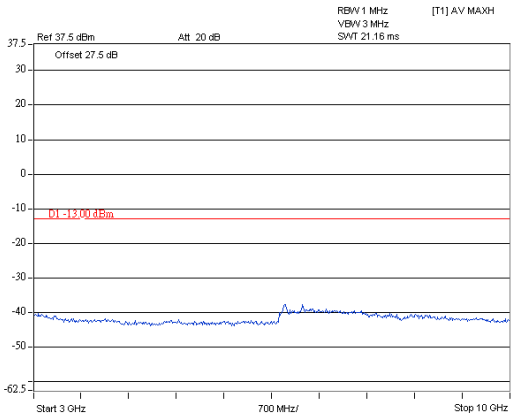


Frequency Range : 10GHz~20GHz	

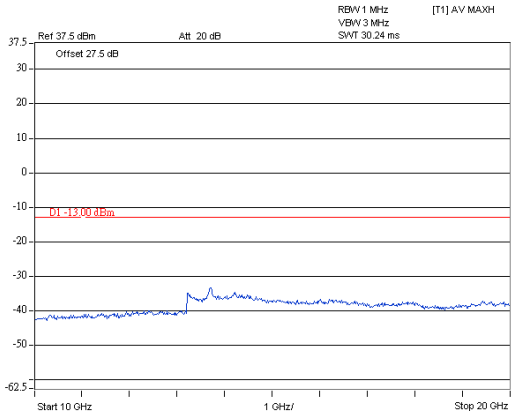


LTE Band 2 Channel Band width: 10MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

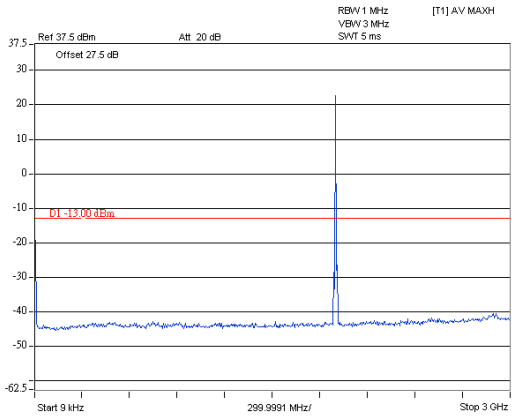


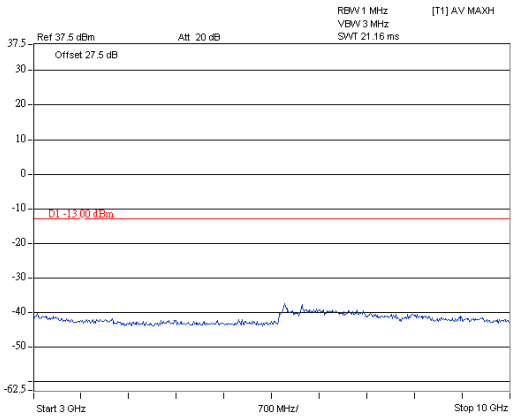


Frequency Range : 10GHz~20GHz	

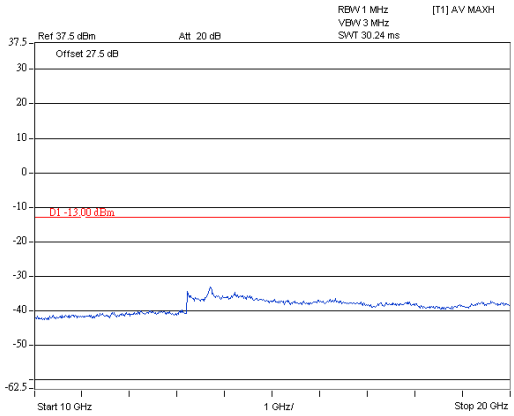


LTE Band 2 Channel Band width: 10MHz	
Channel 19150	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

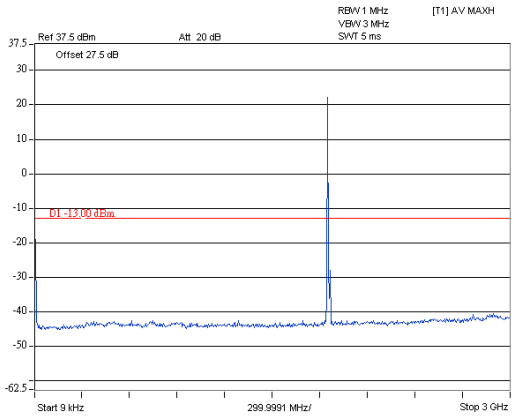


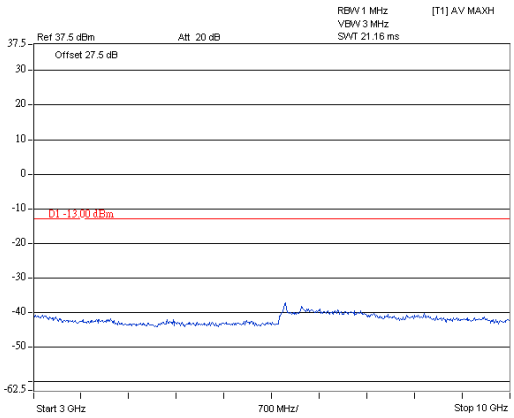


Frequency Range : 10GHz~20GHz	

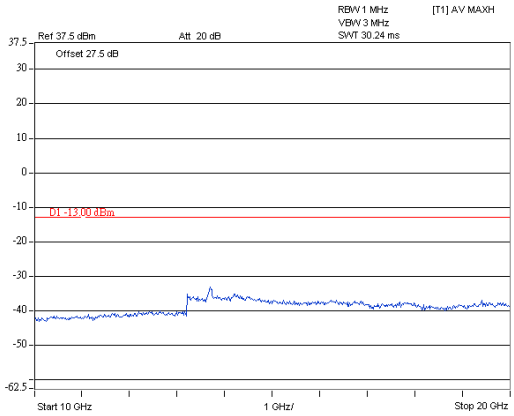


LTE Band 2 Channel Band width: 15MHz	
Channel 18675	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

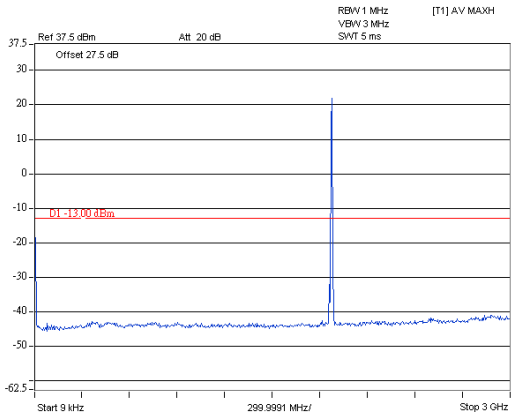


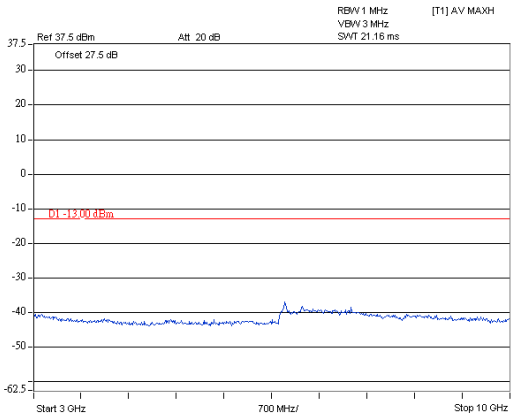


Frequency Range : 10GHz~20GHz	

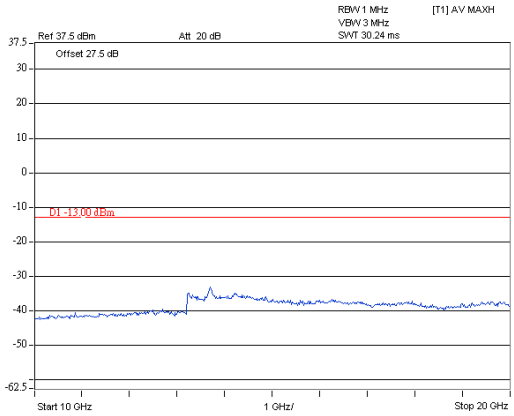


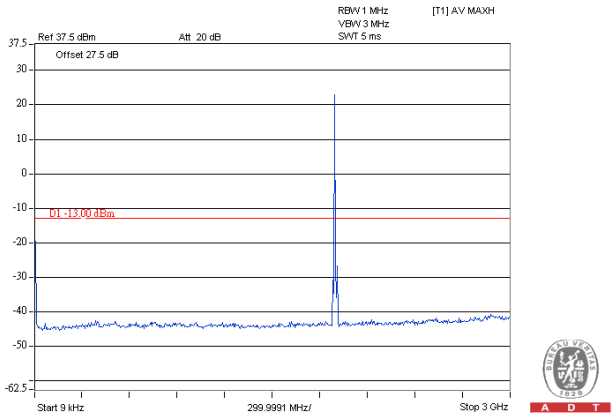
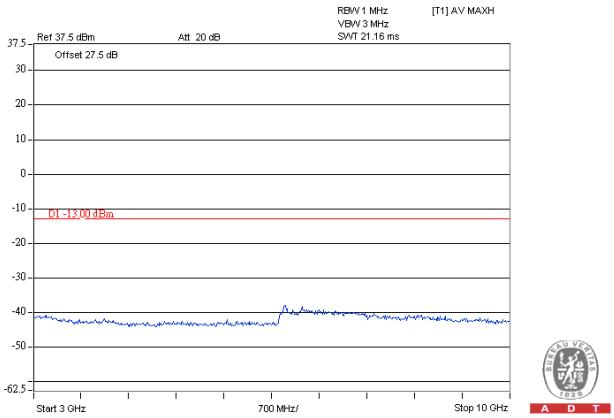
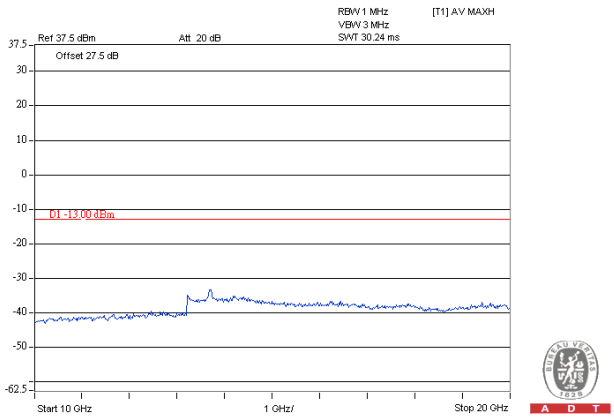
LTE Band 2 Channel Band width: 15MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz



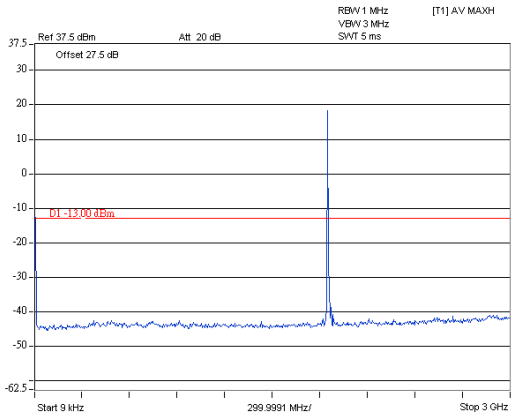


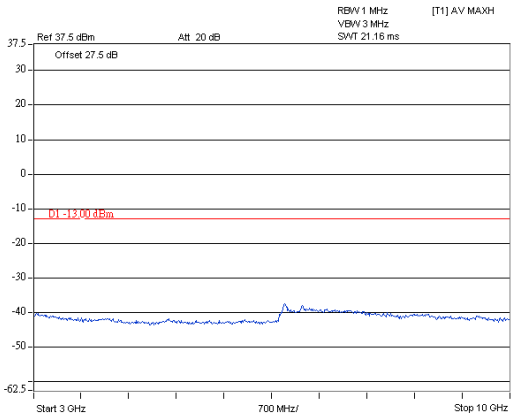
Frequency Range : 10GHz~20GHz	



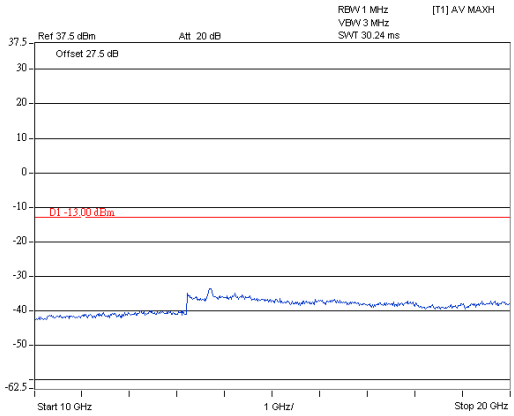
LTE Band 2 Channel Band width: 15MHz	
Channel 19125	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz
	
Frequency Range : 10GHz~20GHz	
	

LTE Band 2 Channel Band width: 20MHz	
Channel 18700	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

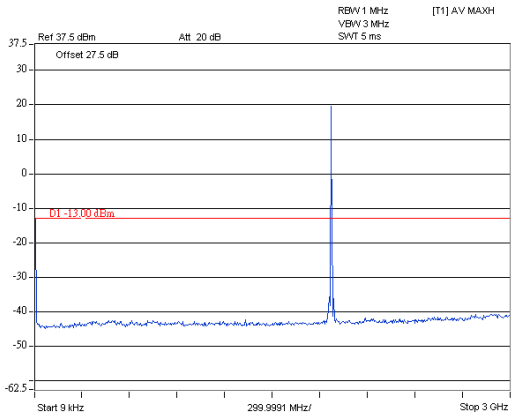


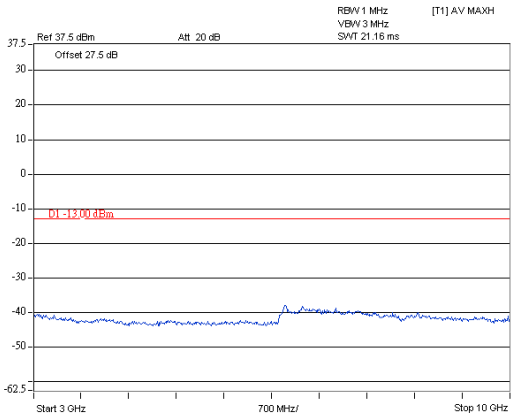


Frequency Range : 10GHz~20GHz	

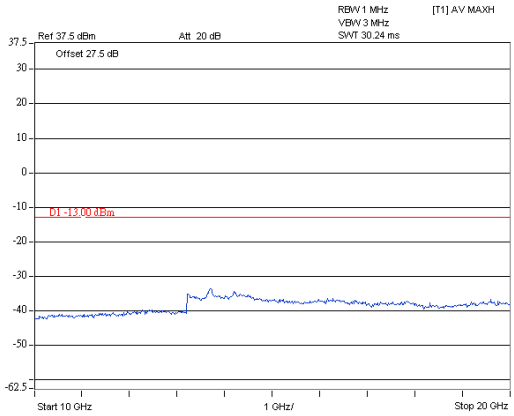


LTE Band 2 Channel Band width: 20MHz	
Channel 18900	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

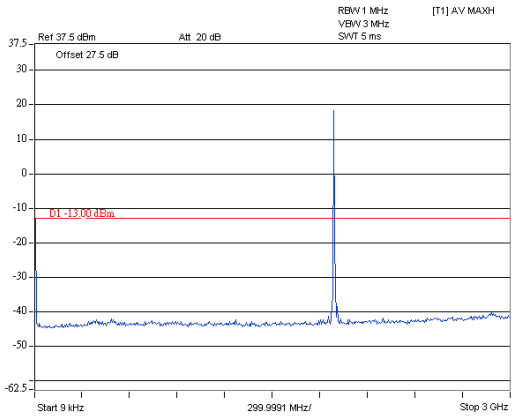


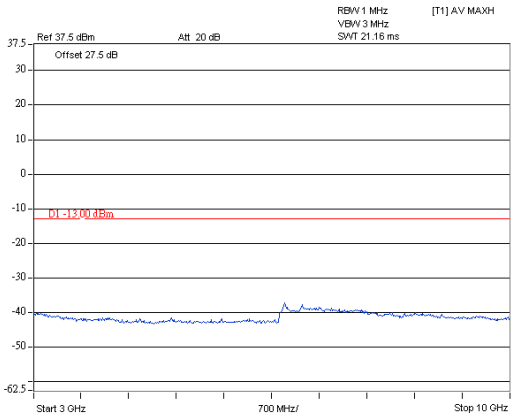


Frequency Range : 10GHz~20GHz	

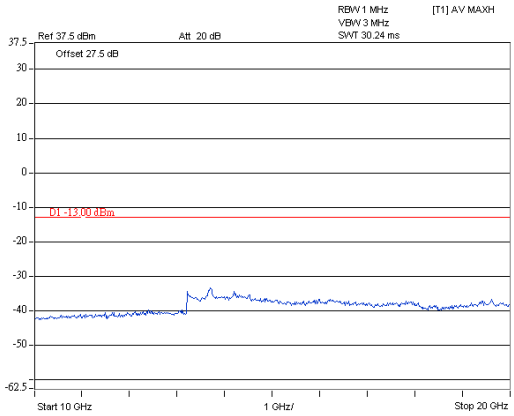


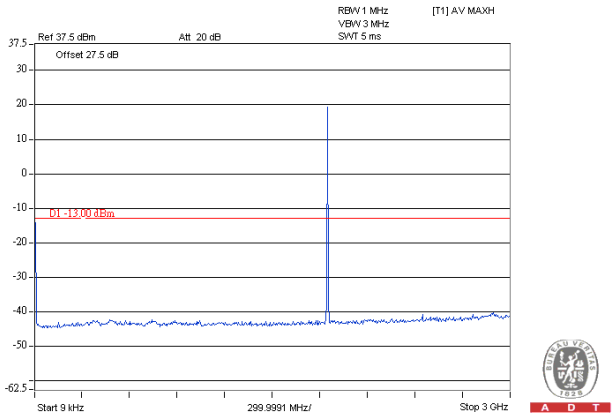
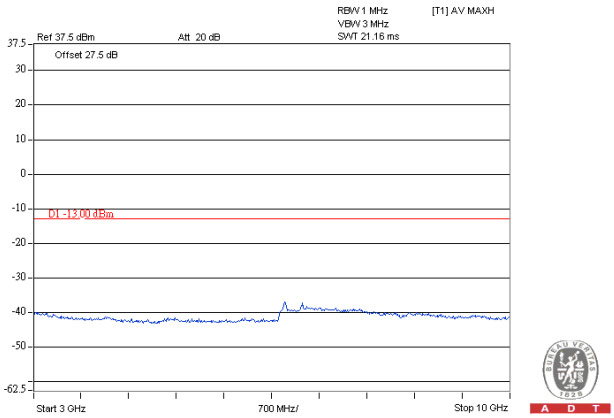
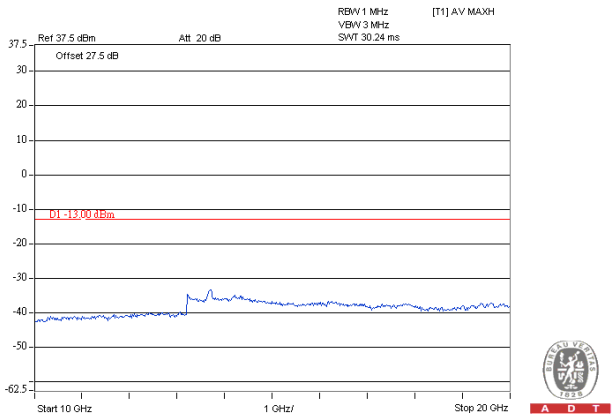
LTE Band 2 Channel Band width: 20MHz	
Channel 19100	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz



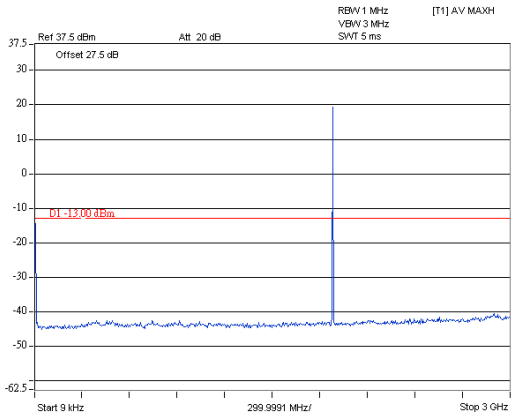


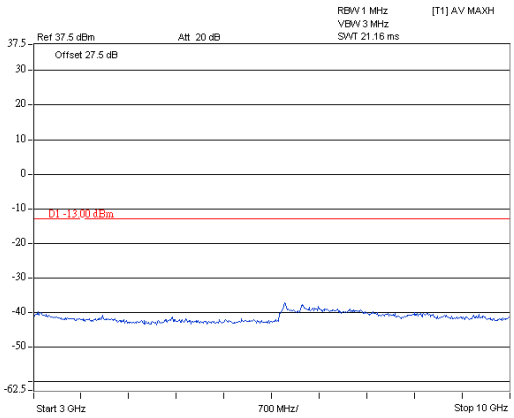
Frequency Range : 10GHz~20GHz	



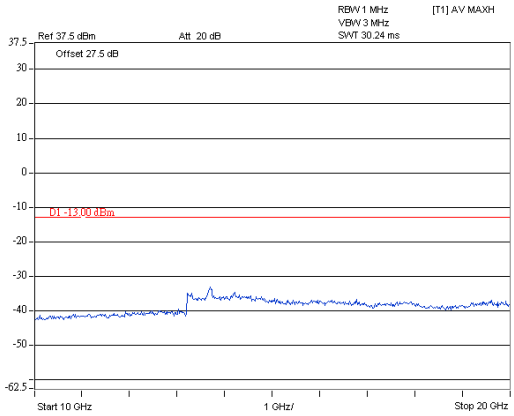
LTE Band 25 Channel Band width: 1.4MHz	
Channel 26047	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz
	
Frequency Range : 10GHz~20GHz	
	

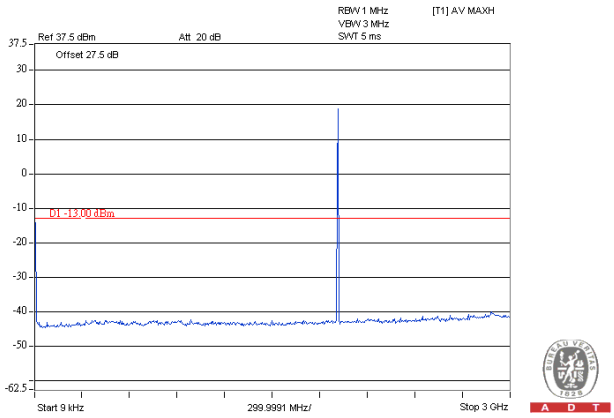
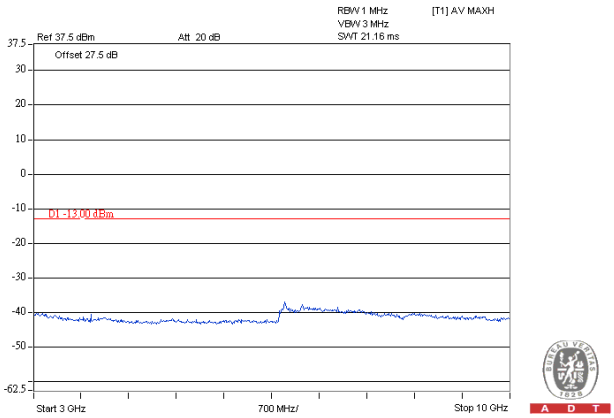
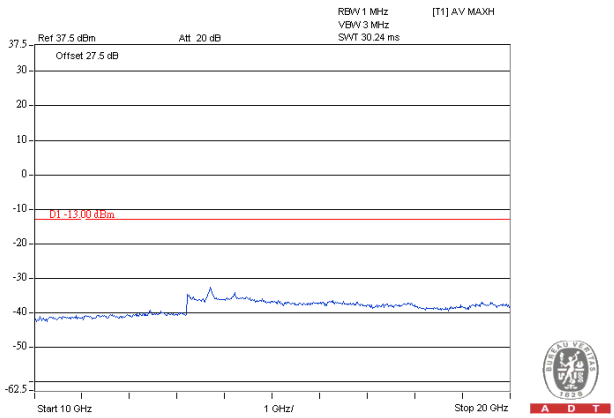
LTE Band 25 Channel Band width: 1.4MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz



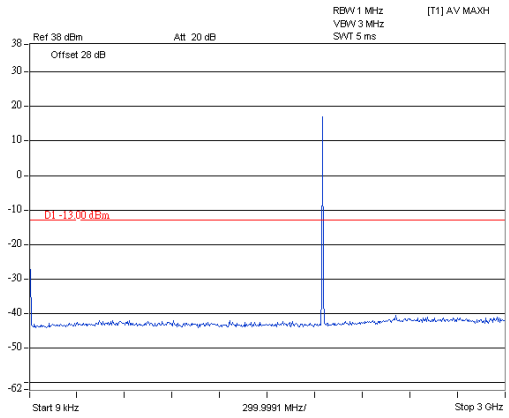


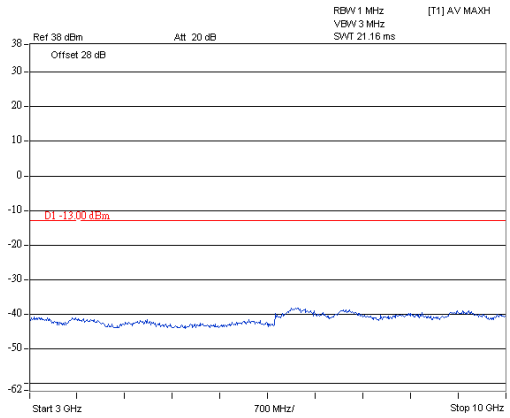
Frequency Range : 10GHz~20GHz	



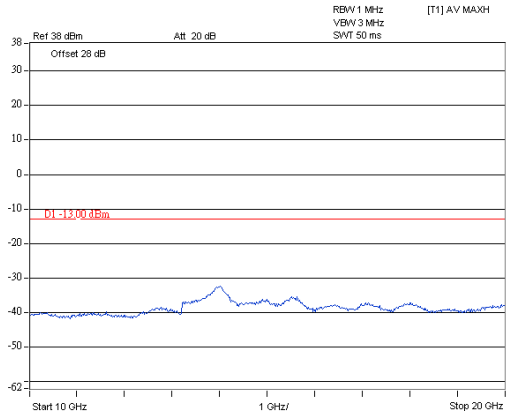
LTE Band 25 Channel Band width: 1.4MHz	
Channel 26683	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz
	
Frequency Range : 10GHz~20GHz	
	

LTE Band 25 Channel Band width: 3MHz	
Channel 26055	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

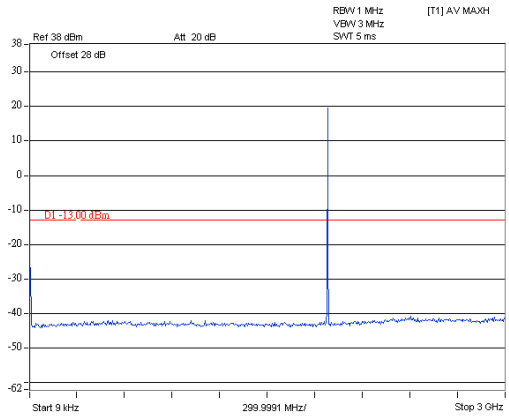


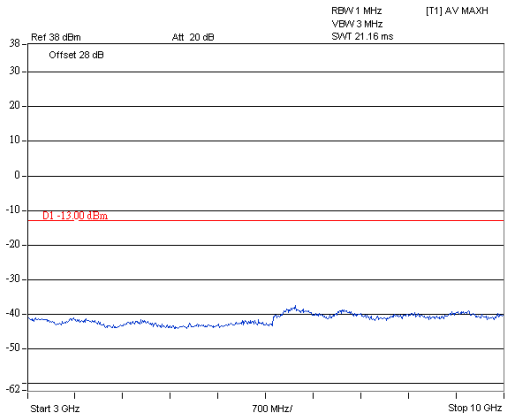


Frequency Range : 10GHz~20GHz	

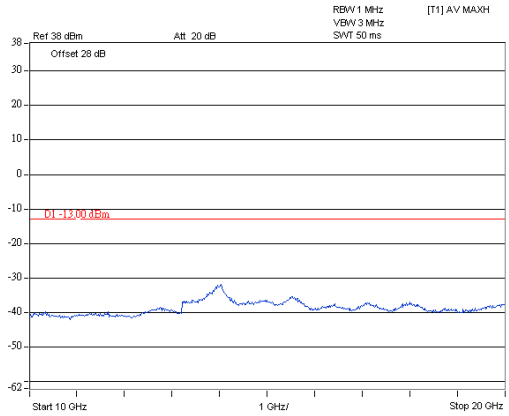


LTE Band 25 Channel Band width: 3MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

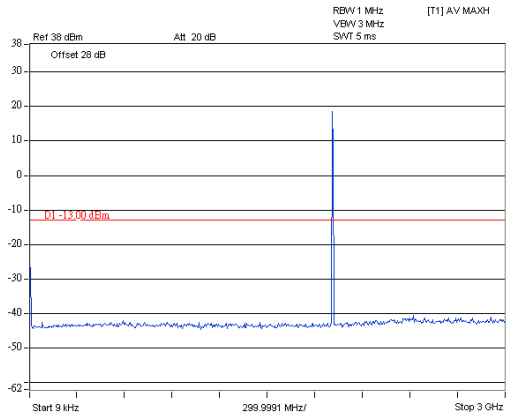


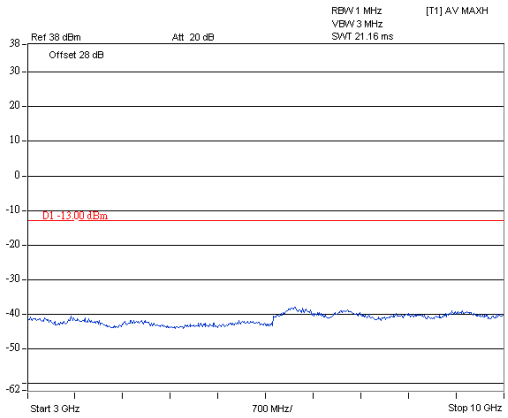


Frequency Range : 10GHz~20GHz	

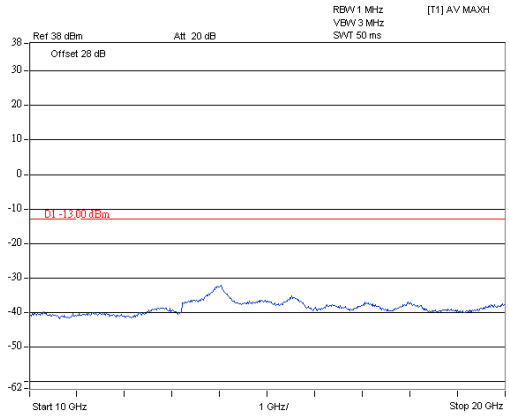


LTE Band 25 Channel Band width: 3MHz	
Channel 26675	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

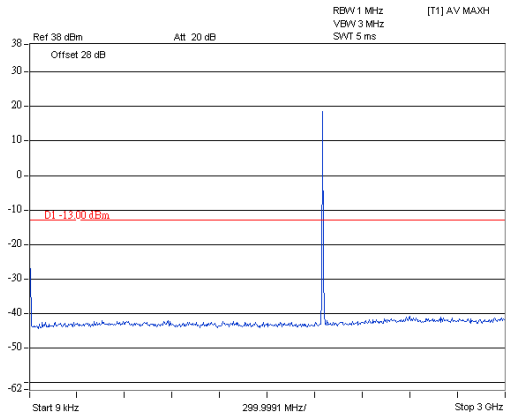


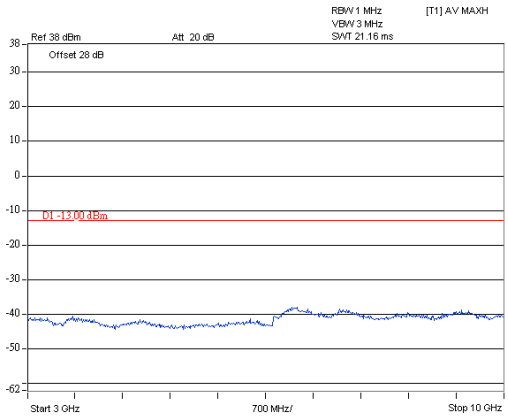


Frequency Range : 10GHz~20GHz	

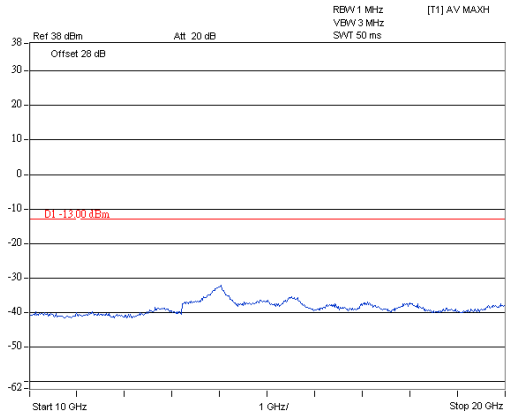


LTE Band 25 Channel Band width: 5MHz	
Channel 26065	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

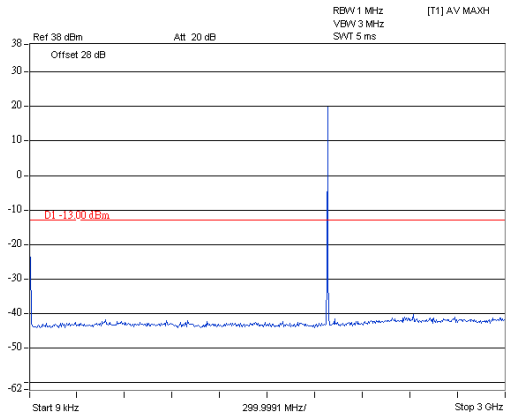


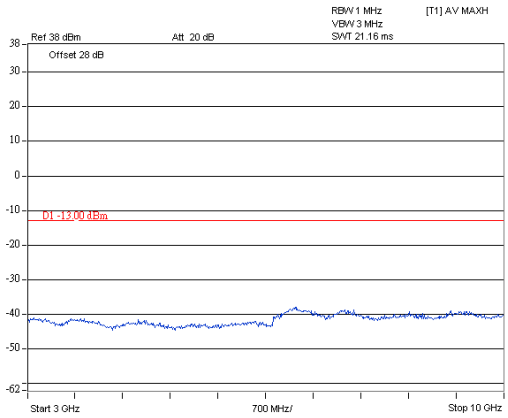


Frequency Range : 10GHz~20GHz	

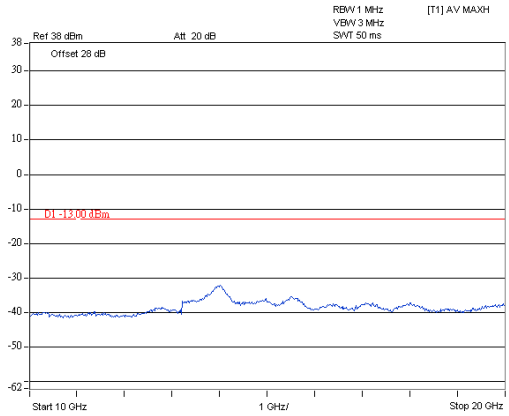


LTE Band 25 Channel Band width: 5MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

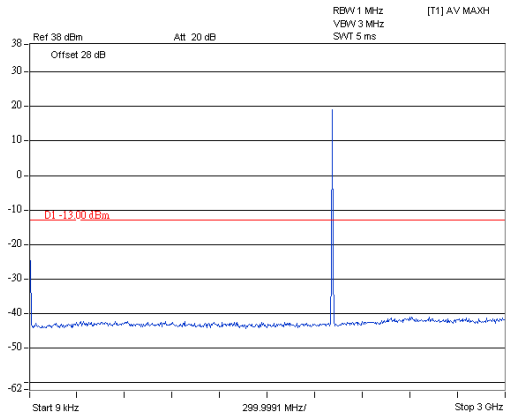


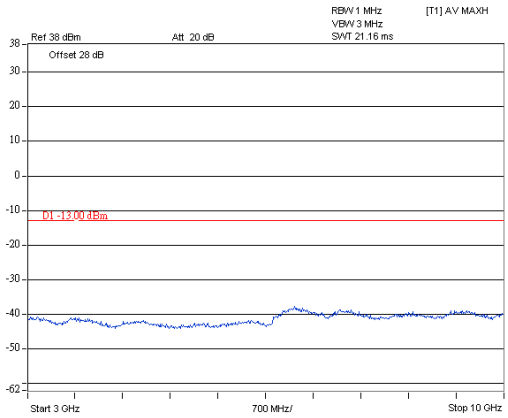


Frequency Range : 10GHz~20GHz	

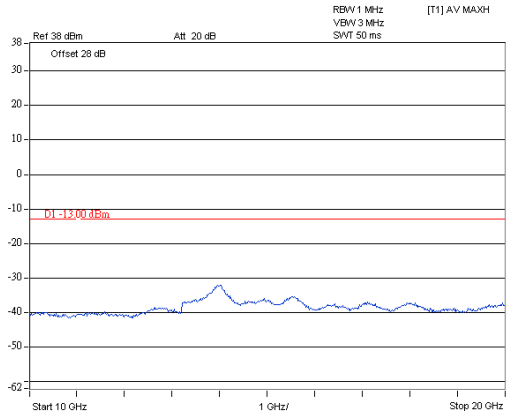


LTE Band 25 Channel Band width: 5MHz	
Channel 26665	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

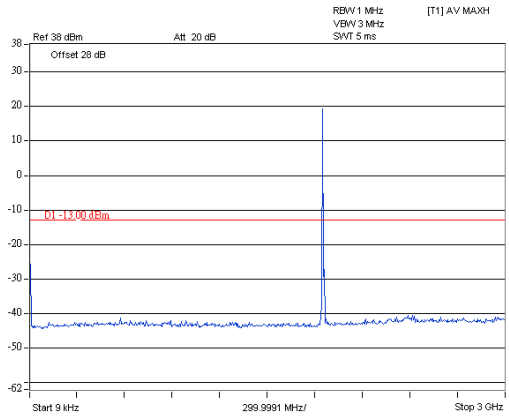


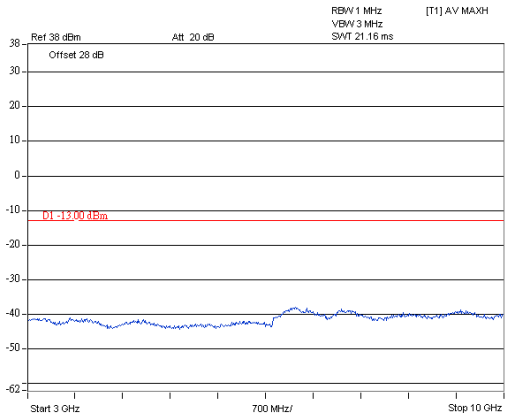


Frequency Range : 10GHz~20GHz	

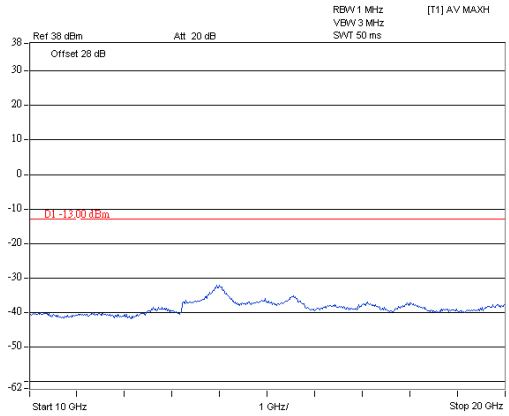


LTE Band 25 Channel Band width: 10MHz	
Channel 26090	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

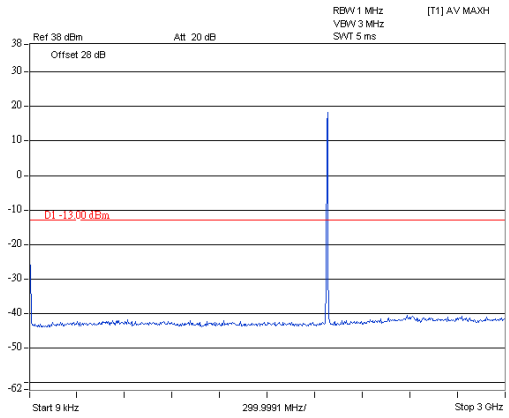


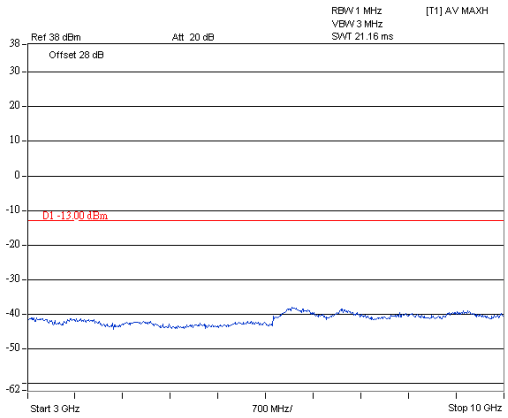


Frequency Range : 10GHz~20GHz	

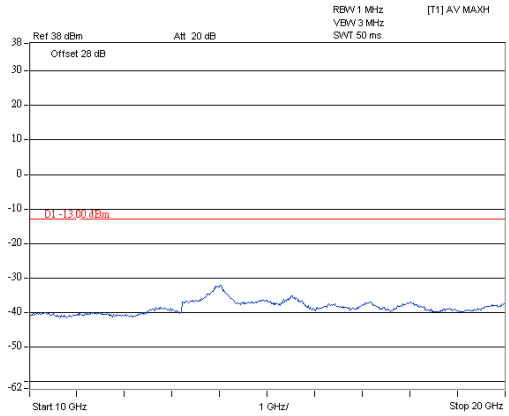


LTE Band 25 Channel Band width: 10MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

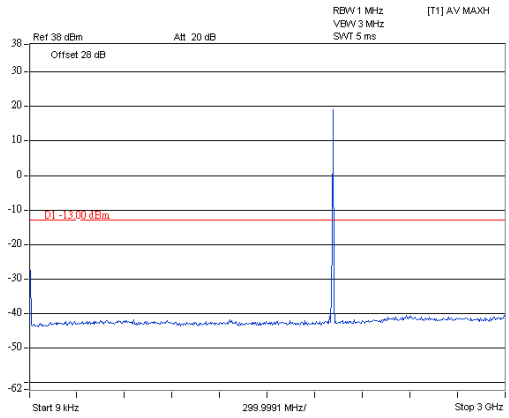


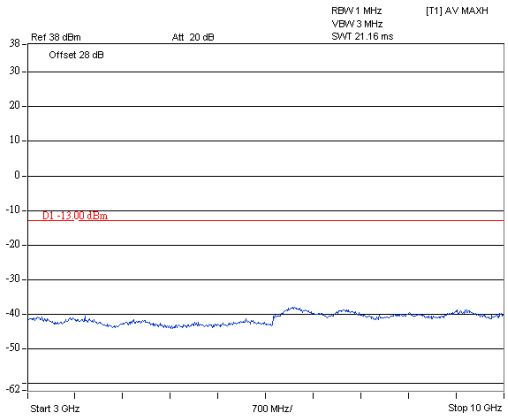


Frequency Range : 10GHz~20GHz	

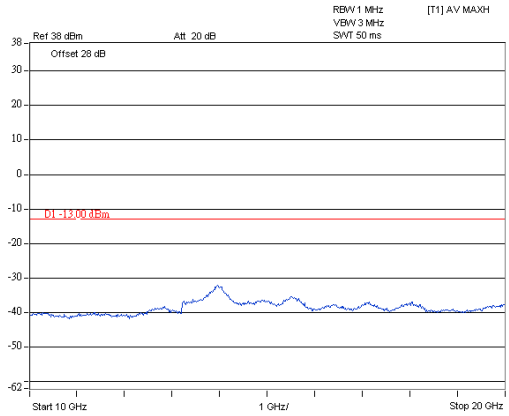


LTE Band 25 Channel Band width: 10MHz	
Channel 26640	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

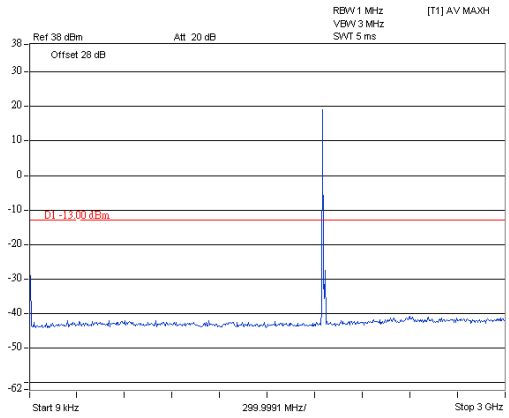


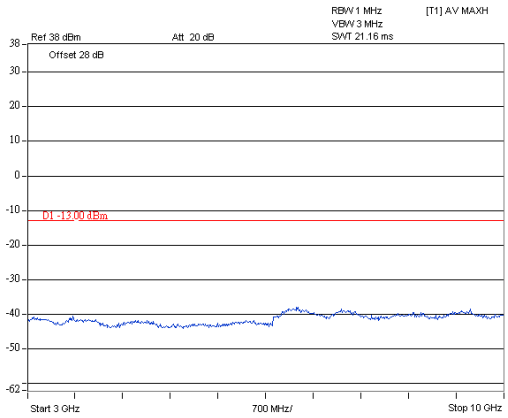


Frequency Range : 10GHz~20GHz	

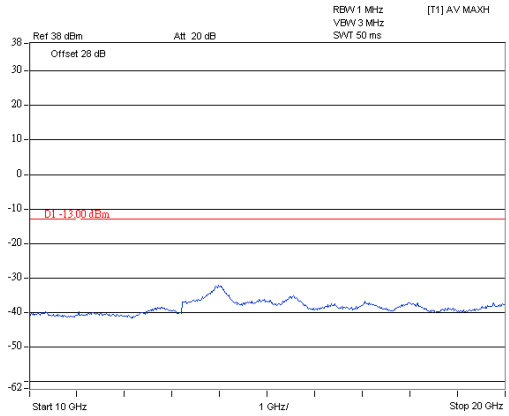


LTE Band 25 Channel Band width: 15MHz	
Channel 26115	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

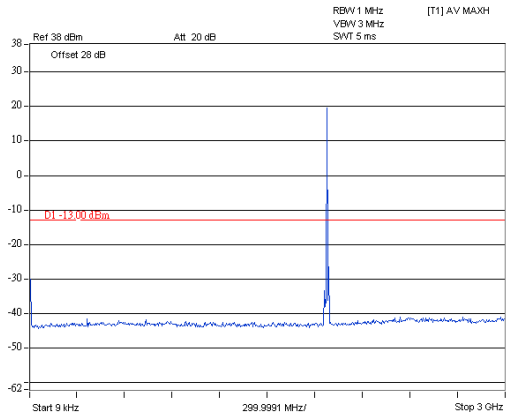


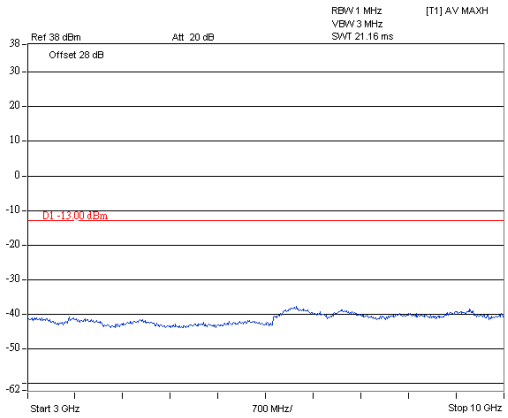


Frequency Range : 10GHz~20GHz	

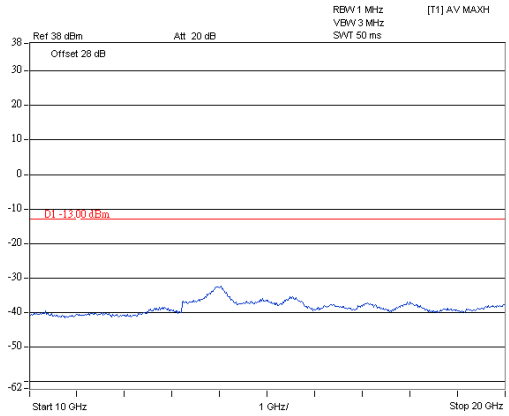


LTE Band 25 Channel Band width: 15MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

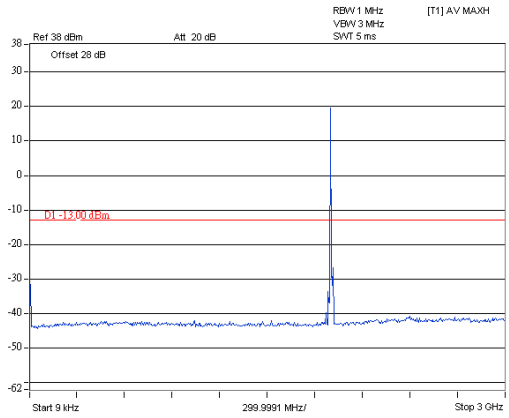


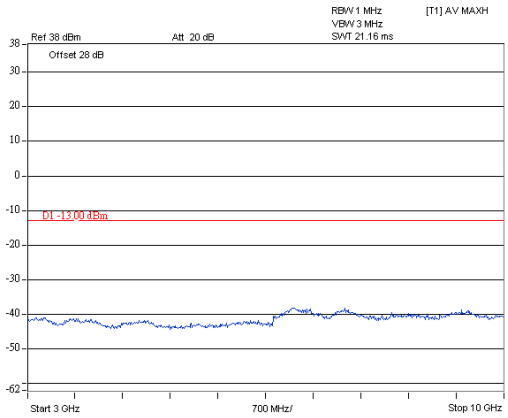


Frequency Range : 10GHz~20GHz	

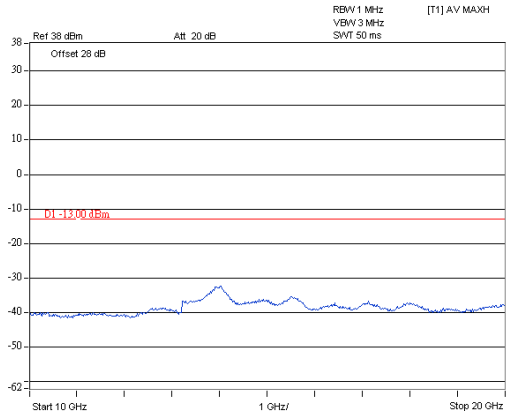


LTE Band 25 Channel Band width: 15MHz	
Channel 26615	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

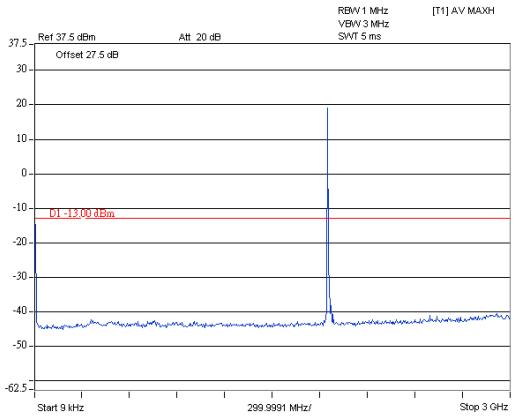


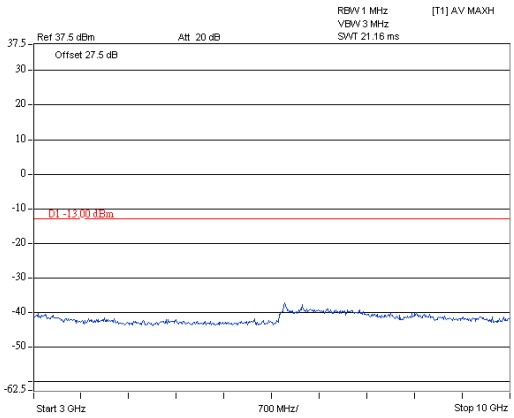


Frequency Range : 10GHz~20GHz	

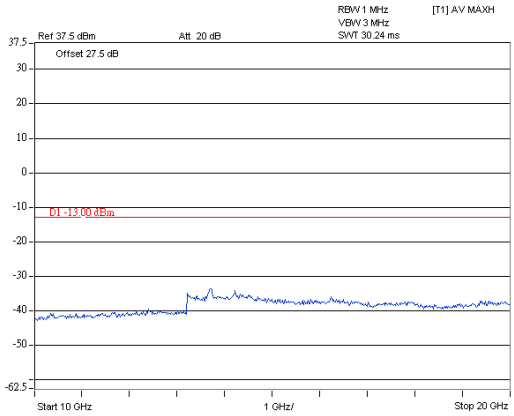


LTE Band 25 Channel Band width: 20MHz	
Channel 26140	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

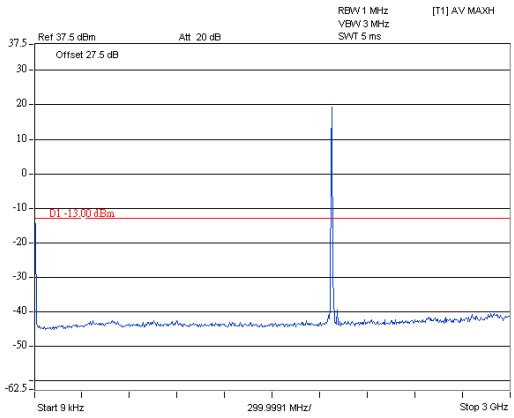


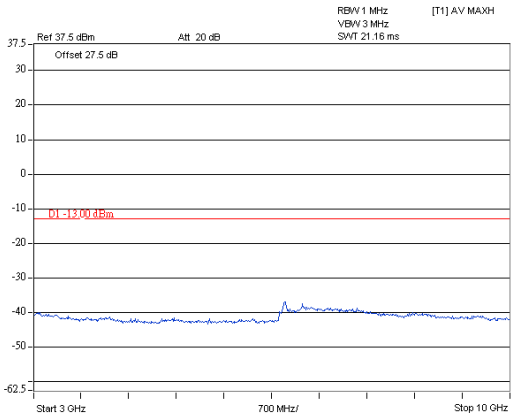


Frequency Range : 10GHz~20GHz	

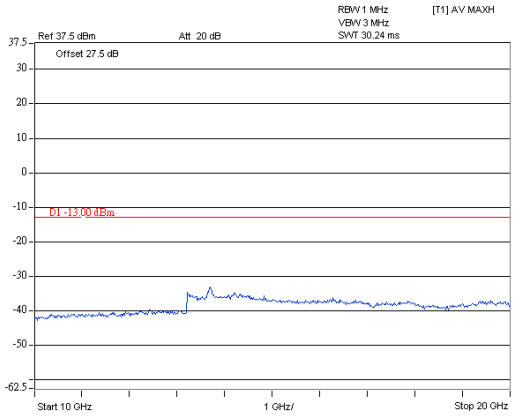


LTE Band 25 Channel Band width: 20MHz	
Channel 26365	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz

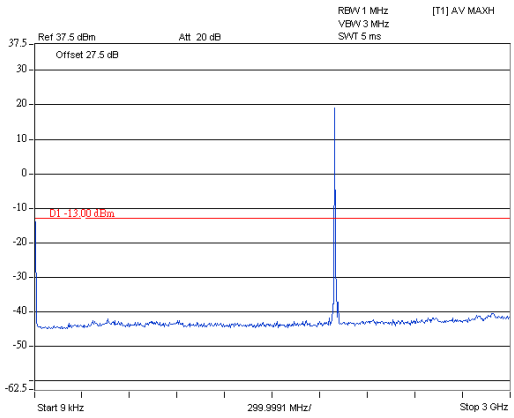


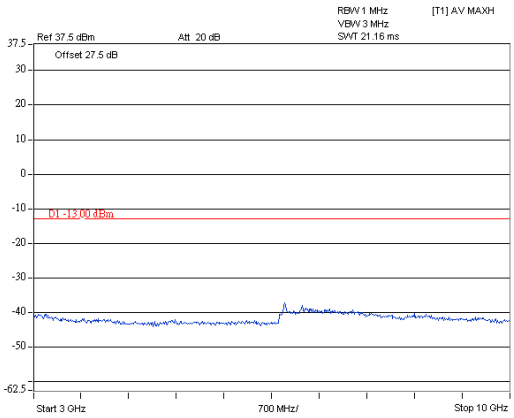


Frequency Range : 10GHz~20GHz	

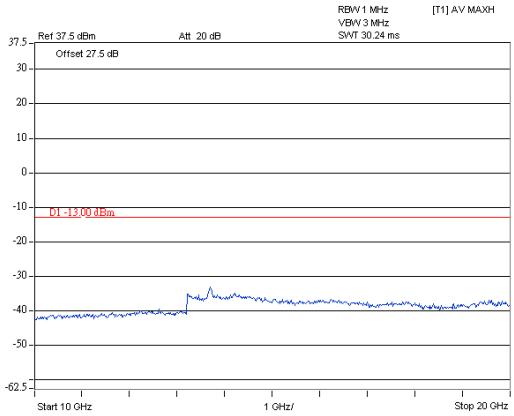


LTE Band 25 Channel Band width: 20MHz	
Channel 26590	
Frequency Range : 9kHz~3GHz	Frequency Range : 3GHz~10GHz





Frequency Range : 10GHz~20GHz	



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 equal to –13dBm.

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 0.8m 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 1m to 4m 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.

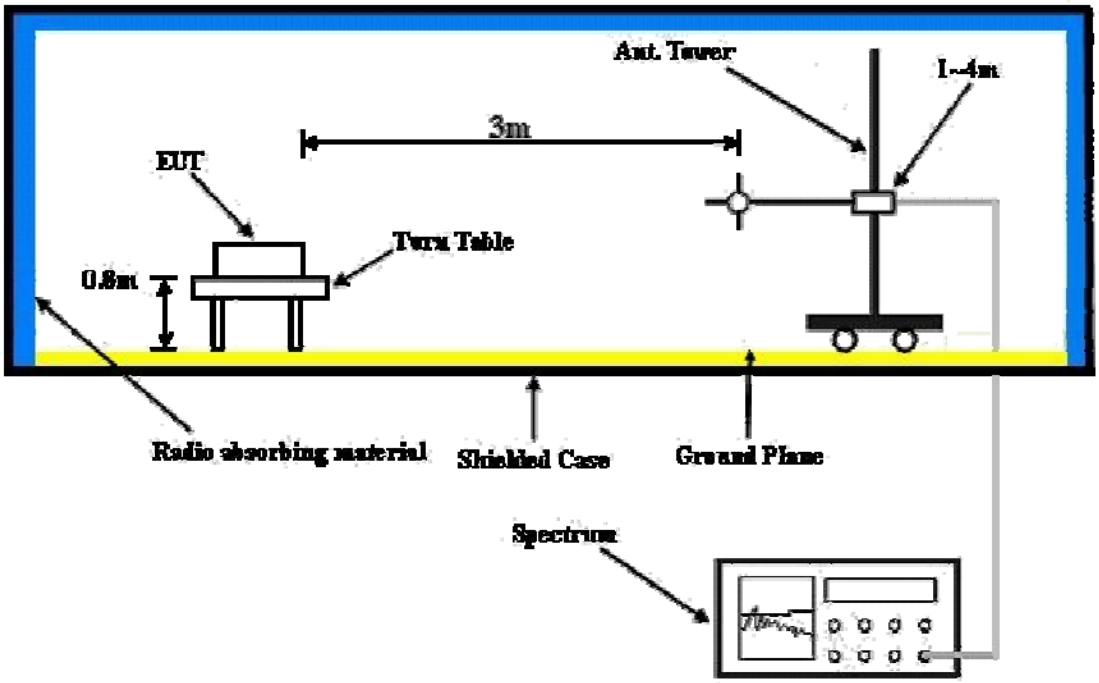
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

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

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).

4.7.5 Test Results

Below 1GHz

LTE Band 2

Channel Bandwidth: 1.4MHz

Mode	TX channel 18607	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-56.10	-36.70	-15.90	-52.60	-13.00	-39.60
2	97.90	-52.10	-59.40	-1.40	-60.80	-13.00	-47.80
3	127.00	-55.10	-58.30	-3.30	-61.60	-13.00	-48.60
4	297.72	-60.90	-61.90	-1.70	-63.60	-13.00	-50.60
5	495.60	-64.30	-68.30	3.80	-64.50	-13.00	-51.50
6	674.08	-67.60	-68.50	3.60	-64.90	-13.00	-51.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.58	-44.60	-41.80	-11.30	-53.10	-13.00	-40.10
2	68.80	-50.90	-56.70	-0.80	-57.50	-13.00	-44.50
3	127.00	-47.50	-49.90	-3.30	-53.20	-13.00	-40.20
4	194.90	-55.00	-53.50	-2.60	-56.10	-13.00	-43.10
5	297.72	-57.80	-56.40	-1.70	-58.10	-13.00	-45.10
6	495.60	-62.20	-66.10	3.80	-62.30	-13.00	-49.30

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 3MHz

Mode	TX channel 18615	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	33.88	-62.10	-42.10	-17.10	-59.20	-13.00	-46.20
2	43.58	-57.50	-44.60	-11.30	-55.90	-13.00	-42.90
3	97.90	-57.70	-65.00	-1.40	-66.40	-13.00	-53.40
4	128.94	-57.50	-60.50	-3.20	-63.70	-13.00	-50.70
5	297.72	-60.90	-61.90	-1.70	-63.60	-13.00	-50.60
6	674.08	-67.70	-68.60	3.60	-65.00	-13.00	-52.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.52	-43.20	-41.10	-10.40	-51.50	-13.00	-38.50
2	62.98	-42.10	-46.40	-2.40	-48.80	-13.00	-35.80
3	128.94	-48.00	-50.20	-3.20	-53.40	-13.00	-40.40
4	150.28	-41.30	-40.40	-3.00	-43.40	-13.00	-30.40
5	194.90	-57.90	-56.40	-2.60	-59.00	-13.00	-46.00
6	297.72	-57.20	-55.80	-1.70	-57.50	-13.00	-44.50

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 5MHz

Mode	TX channel 18625	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-58.10	-38.70	-15.90	-54.60	-13.00	-41.60
2	80.44	-44.70	-50.10	0.50	-49.60	-13.00	-36.60
3	111.48	-47.10	-52.30	-2.50	-54.80	-13.00	-41.80
4	134.76	-49.00	-51.80	-3.20	-55.00	-13.00	-42.00
5	189.08	-40.30	-45.90	-2.80	-48.70	-13.00	-35.70
6	264.74	-47.30	-50.20	-1.60	-51.80	-13.00	-38.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.32	-48.80	-54.20	0.40	-53.80	-13.00	-40.80
2	134.76	-45.60	-46.00	-3.20	-49.20	-13.00	-36.20
3	187.14	-36.00	-35.70	-2.70	-38.40	-13.00	-25.40
4	268.62	-50.40	-47.20	-1.50	-48.70	-13.00	-35.70
5	321.00	-51.40	-55.60	4.00	-51.60	-13.00	-38.60
6	414.12	-52.30	-56.10	3.40	-52.70	-13.00	-39.70

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 10MHz

Mode	TX channel 18650	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-56.40	-37.00	-15.90	-52.90	-13.00	-39.90
2	80.44	-44.60	-50.00	0.50	-49.50	-13.00	-36.50
3	134.76	-48.70	-51.50	-3.20	-54.70	-13.00	-41.70
4	187.14	-41.00	-46.50	-2.70	-49.20	-13.00	-36.20
5	220.12	-45.90	-52.10	-1.90	-54.00	-13.00	-41.00
6	264.74	-47.40	-50.30	-1.60	-51.90	-13.00	-38.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	59.10	-48.70	-51.70	-3.80	-55.50	-13.00	-42.50
2	82.38	-49.70	-54.60	0.40	-54.20	-13.00	-41.20
3	134.76	-45.50	-45.90	-3.20	-49.10	-13.00	-36.10
4	187.14	-36.30	-36.00	-2.70	-38.70	-13.00	-25.70
5	266.68	-50.30	-47.40	-1.60	-49.00	-13.00	-36.00
6	317.12	-52.10	-56.20	4.10	-52.10	-13.00	-39.10

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 15MHz

Mode	TX channel 18675	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-58.30	-38.90	-15.90	-54.80	-13.00	-41.80
2	82.38	-43.80	-49.60	0.40	-49.20	-13.00	-36.20
3	111.48	-47.00	-52.20	-2.50	-54.70	-13.00	-41.70
4	187.14	-41.60	-47.10	-2.70	-49.80	-13.00	-36.80
5	220.12	-45.60	-51.80	-1.90	-53.70	-13.00	-40.70
6	260.86	-47.20	-50.40	-1.50	-51.90	-13.00	-38.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-49.10	-54.00	0.40	-53.60	-13.00	-40.60
2	134.76	-45.50	-45.90	-3.20	-49.10	-13.00	-36.10
3	187.14	-36.70	-36.40	-2.70	-39.10	-13.00	-26.10
4	264.74	-50.50	-47.90	-1.60	-49.50	-13.00	-36.50
5	319.06	-52.50	-56.60	4.00	-52.60	-13.00	-39.60
6	427.70	-52.30	-56.20	3.50	-52.70	-13.00	-39.70

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 20MHz

Mode	TX channel 18700	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-57.60	-38.20	-15.90	-54.10	-13.00	-41.10
2	80.44	-44.60	-50.00	0.50	-49.50	-13.00	-36.50
3	171.62	-43.10	-47.30	-2.90	-50.20	-13.00	-37.20
4	220.12	-45.70	-51.90	-1.90	-53.80	-13.00	-40.80
5	264.74	-47.50	-50.40	-1.60	-52.00	-13.00	-39.00
6	297.72	-55.40	-56.40	-1.70	-58.10	-13.00	-45.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	57.16	-49.20	-51.40	-4.70	-56.10	-13.00	-43.10
2	82.38	-48.80	-53.70	0.40	-53.30	-13.00	-40.30
3	134.76	-45.40	-45.80	-3.20	-49.00	-13.00	-36.00
4	187.14	-36.80	-36.50	-2.70	-39.20	-13.00	-26.20
5	264.74	-50.80	-48.20	-1.60	-49.80	-13.00	-36.80
6	427.70	-52.00	-55.90	3.50	-52.40	-13.00	-39.40

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25

Channel Bandwidth: 1.4MHz

Mode	TX channel 26047	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	80.44	-45.20	-50.60	0.50	-50.10	-13.00	-37.10
2	111.48	-47.60	-52.80	-2.50	-55.30	-13.00	-42.30
3	136.70	-47.70	-50.50	-3.20	-53.70	-13.00	-40.70
4	196.84	-38.60	-44.50	-2.50	-47.00	-13.00	-34.00
5	235.64	-44.90	-50.60	-1.50	-52.10	-13.00	-39.10
6	260.86	-46.50	-49.70	-1.50	-51.20	-13.00	-38.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-47.50	-52.40	0.40	-52.00	-13.00	-39.00
2	134.76	-44.90	-45.30	-3.20	-48.50	-13.00	-35.50
3	187.14	-39.30	-39.00	-2.70	-41.70	-13.00	-28.70
4	235.64	-47.60	-48.30	-1.50	-49.80	-13.00	-36.80
5	260.86	-49.60	-47.10	-1.50	-48.60	-13.00	-35.60
6	315.18	-48.10	-52.20	4.00	-48.20	-13.00	-35.20

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 3MHz

Mode	TX channel 26055	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-44.50	-50.30	0.40	-49.90	-13.00	-36.90
2	113.42	-47.90	-52.90	-2.70	-55.60	-13.00	-42.60
3	136.70	-47.80	-50.60	-3.20	-53.80	-13.00	-40.80
4	198.78	-38.90	-44.90	-2.40	-47.30	-13.00	-34.30
5	235.64	-44.60	-50.30	-1.50	-51.80	-13.00	-38.80
6	260.86	-46.70	-49.90	-1.50	-51.40	-13.00	-38.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-49.50	-54.40	0.40	-54.00	-13.00	-41.00
2	134.76	-45.20	-45.60	-3.20	-48.80	-13.00	-35.80
3	187.14	-39.50	-39.20	-2.70	-41.90	-13.00	-28.90
4	233.70	-49.10	-49.70	-1.70	-51.40	-13.00	-38.40
5	260.86	-49.90	-47.40	-1.50	-48.90	-13.00	-35.90
6	317.12	-50.50	-54.60	4.10	-50.50	-13.00	-37.50

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 5MHz

Mode	TX channel 26065	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	80.44	-45.20	-50.60	0.50	-50.10	-13.00	-37.10
2	113.42	-48.00	-53.00	-2.70	-55.70	-13.00	-42.70
3	136.70	-47.50	-50.30	-3.20	-53.50	-13.00	-40.50
4	196.84	-38.10	-44.00	-2.50	-46.50	-13.00	-33.50
5	237.58	-44.90	-50.50	-1.40	-51.90	-13.00	-38.90
6	258.92	-46.00	-49.50	-1.50	-51.00	-13.00	-38.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.22	-42.00	-43.50	-5.40	-48.90	-13.00	-35.90
2	134.76	-45.00	-45.40	-3.20	-48.60	-13.00	-35.60
3	189.08	-39.80	-39.20	-2.80	-42.00	-13.00	-29.00
4	233.70	-48.80	-49.40	-1.70	-51.10	-13.00	-38.10
5	260.86	-49.70	-47.20	-1.50	-48.70	-13.00	-35.70
6	317.12	-51.00	-55.10	4.10	-51.00	-13.00	-38.00

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 10MHz

Mode	TX channel 26090	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	80.44	-44.30	-49.70	0.50	-49.20	-13.00	-36.20
2	111.48	-46.00	-51.20	-2.50	-53.70	-13.00	-40.70
3	136.70	-45.90	-48.70	-3.20	-51.90	-13.00	-38.90
4	196.84	-38.20	-44.10	-2.50	-46.60	-13.00	-33.60
5	235.64	-45.80	-51.50	-1.50	-53.00	-13.00	-40.00
6	258.92	-47.00	-50.50	-1.50	-52.00	-13.00	-39.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-44.00	-48.90	0.40	-48.50	-13.00	-35.50
2	115.36	-46.00	-50.40	-2.90	-53.30	-13.00	-40.30
3	136.70	-46.10	-46.10	-3.20	-49.30	-13.00	-36.30
4	198.78	-37.70	-36.30	-2.40	-38.70	-13.00	-25.70
5	235.64	-45.40	-46.10	-1.50	-47.60	-13.00	-34.60
6	260.86	-47.30	-44.80	-1.50	-46.30	-13.00	-33.30

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 15MHz

Mode	TX channel 26115	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-56.90	-37.50	-15.90	-53.40	-13.00	-40.40
2	82.38	-43.70	-49.50	0.40	-49.10	-13.00	-36.10
3	136.70	-45.80	-48.60	-3.20	-51.80	-13.00	-38.80
4	196.84	-38.80	-44.70	-2.50	-47.20	-13.00	-34.20
5	235.64	-45.60	-51.30	-1.50	-52.80	-13.00	-39.80
6	260.86	-47.20	-50.40	-1.50	-51.90	-13.00	-38.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	134.76	-45.40	-45.80	-3.20	-49.00	-13.00	-36.00
2	194.90	-42.90	-41.40	-2.60	-44.00	-13.00	-31.00
3	206.54	-48.70	-49.20	-2.00	-51.20	-13.00	-38.20
4	233.70	-48.90	-49.50	-1.70	-51.20	-13.00	-38.20
5	260.86	-49.90	-47.40	-1.50	-48.90	-13.00	-35.90
6	317.12	-48.90	-53.00	4.10	-48.90	-13.00	-35.90

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 20MHz

Mode	TX channel 26140	Frequency Range	Below 1000 MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-56.20	-36.80	-15.90	-52.70	-13.00	-39.70
2	80.44	-44.70	-50.10	0.50	-49.60	-13.00	-36.60
3	134.76	-45.70	-48.50	-3.20	-51.70	-13.00	-38.70
4	196.84	-38.70	-44.60	-2.50	-47.10	-13.00	-34.10
5	235.64	-45.30	-51.00	-1.50	-52.50	-13.00	-39.50
6	260.86	-47.00	-50.20	-1.50	-51.70	-13.00	-38.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	134.76	-45.20	-45.60	-3.20	-48.80	-13.00	-35.80
2	189.08	-42.00	-41.40	-2.80	-44.20	-13.00	-31.20
3	206.54	-49.40	-49.90	-2.00	-51.90	-13.00	-38.90
4	233.70	-49.30	-49.90	-1.70	-51.60	-13.00	-38.60
5	260.86	-50.10	-47.60	-1.50	-49.10	-13.00	-36.10
6	317.12	-48.80	-52.90	4.10	-48.80	-13.00	-35.80

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Above 1GHz

LTE Band 2

Channel Bandwidth: 1.4MHz

Mode	TX channel 18607	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.40	-50.90	-42.40	1.40	-41.00	-13.00	-28.00
2	5552.10	-50.80	-38.00	1.40	-36.60	-13.00	-23.60
3	7402.80	-56.30	-37.60	0.90	-36.70	-13.00	-23.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.40	-54.60	-46.40	1.40	-45.00	-13.00	-32.00
2	5552.10	-59.50	-47.50	1.40	-46.10	-13.00	-33.10
3	7402.80	-60.40	-42.80	0.90	-41.90	-13.00	-28.90

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-53.00	-44.50	1.30	-43.20	-13.00	-30.20
2	5640.00	-59.20	-46.20	1.30	-44.90	-13.00	-31.90
3	7520.00	-60.60	-42.00	1.00	-41.00	-13.00	-28.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-50.50	-42.20	1.30	-40.90	-13.00	-27.90
2	5640.00	-55.70	-43.80	1.30	-42.50	-13.00	-29.50
3	7520.00	-60.00	-42.00	1.00	-41.00	-13.00	-28.00

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19193	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3818.60	-50.20	-41.90	1.40	-40.50	-13.00	-27.50
2	5727.90	-53.60	-40.50	1.20	-39.30	-13.00	-26.30
3	7637.20	-57.80	-40.30	1.20	-39.10	-13.00	-26.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3818.60	-56.03	-47.74	1.32	-46.42	-13.00	-33.42
2	5727.90	-54.94	-42.79	1.25	-41.54	-13.00	-28.54
3	7637.20	-57.81	-39.72	1.12	-38.60	-13.00	-25.60

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 3 MHz

Mode	TX channel 18615	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703.00	-52.96	-47.01	7.16	-39.85	-13.00	-26.85
2	5554.50	-56.77	-45.06	6.78	-38.28	-13.00	-25.28
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703.00	-59.59	-52.60	7.16	-45.44	-13.00	-32.44
2	5554.50	-57.88	-46.43	6.78	-39.65	-13.00	-26.65

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-52.15	-45.60	7.10	-38.50	-13.00	-25.50
2	5640.00	-56.34	-44.16	6.77	-37.39	-13.00	-24.39
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-59.44	-52.02	7.10	-44.92	-13.00	-31.92
2	5640.00	-57.56	-46.25	6.77	-39.48	-13.00	-26.48

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19185	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3817.00	-52.36	-45.57	7.05	-38.52	-13.00	-25.52
2	5725.50	-55.97	-42.94	6.74	-36.20	-13.00	-23.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3817.00	-59.38	-51.61	7.05	-44.56	-13.00	-31.56
2	5725.50	-57.21	-45.87	6.74	-39.13	-13.00	-26.13

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 5MHz

Mode	TX channel 18625	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.00	-52.57	-46.17	1.35	-44.82	-13.00	-31.82
2	5557.50	-51.41	-40.71	1.35	-39.36	-13.00	-26.36
3	7410.00	-56.93	-40.43	0.94	-39.49	-13.00	-26.49
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.00	-56.75	-50.63	1.35	-49.28	-13.00	-36.28
2	5557.50	-56.63	-46.77	1.35	-45.42	-13.00	-32.42
3	7410.00	-60.21	-44.73	0.94	-43.79	-13.00	-30.79

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-52.10	-45.80	1.34	-44.46	-13.00	-31.46
2	5640.00	-51.48	-40.60	1.29	-39.31	-13.00	-26.31
3	7520.00	-58.66	-42.24	1.01	-41.23	-13.00	-28.23
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-57.99	-51.92	1.34	-50.58	-13.00	-37.58
2	5640.00	-57.50	-47.76	1.29	-46.47	-13.00	-33.47
3	7520.00	-60.53	-44.73	1.01	-43.72	-13.00	-30.72

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19175	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.00	-51.87	-45.63	1.32	-44.31	-13.00	-31.31
2	5722.50	-51.89	-40.95	1.24	-39.71	-13.00	-26.71
3	7630.00	-58.06	-42.65	1.12	-41.53	-13.00	-28.53
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.00	-57.14	-51.02	1.32	-49.70	-13.00	-36.70
2	5722.50	-59.65	-49.70	1.24	-48.46	-13.00	-35.46
3	7630.00	-59.77	-43.82	1.12	-42.70	-13.00	-29.70

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 10MHz

Mode	TX channel 18650	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-56.09	-49.70	1.35	-48.35	-13.00	-35.35
2	5565.00	-58.54	-47.81	1.34	-46.47	-13.00	-33.47
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-60.49	-54.37	1.35	-53.02	-13.00	-40.02
2	5565.00	-60.47	-50.62	1.34	-49.28	-13.00	-36.28

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-55.69	-49.39	1.34	-48.05	-13.00	-35.05
2	5640.00	-58.92	-48.04	1.29	-46.75	-13.00	-33.75
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-59.65	-53.58	1.34	-52.24	-13.00	-39.24
2	5640.00	-61.18	-51.44	1.29	-50.15	-13.00	-37.15

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19150	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810.00	-54.03	-47.79	1.32	-46.47	-13.00	-33.47
2	5715.00	-59.68	-48.75	1.25	-47.50	-13.00	-34.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810.00	-58.62	-52.52	1.32	-51.20	-13.00	-38.20
2	5715.00	-60.89	-51.02	1.25	-49.77	-13.00	-36.77

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 15MHz

Mode	TX channel 18675	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715.00	-57.24	-50.86	1.35	-49.51	-13.00	-36.51
2	5572.50	-58.05	-47.29	1.33	-45.96	-13.00	-32.96
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715.00	-60.07	-53.96	1.35	-52.61	-13.00	-39.61
2	5572.50	-60.83	-51.00	1.33	-49.67	-13.00	-36.67

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-55.20	-48.90	1.34	-47.56	-13.00	-34.56
2	5640.00	-59.71	-48.83	1.29	-47.54	-13.00	-34.54
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-60.31	-54.24	1.34	-52.90	-13.00	-39.90
2	5640.00	-59.70	-49.96	1.29	-48.67	-13.00	-35.67

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19125	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3805.00	-56.34	-50.10	1.32	-48.78	-13.00	-35.78
2	5707.50	-60.57	-49.64	1.25	-48.39	-13.00	-35.39
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3805.00	-60.48	-54.41	1.32	-53.09	-13.00	-40.09
2	5707.50	-62.07	-52.28	1.25	-51.03	-13.00	-38.03

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 20MHz

Mode	TX channel 18700	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720.00	-57.10	-50.80	1.40	-49.40	-13.00	-36.40
2	5580.00	-59.20	-48.40	1.30	-47.10	-13.00	-34.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720.00	-59.50	-53.40	1.40	-52.00	-13.00	-39.00
2	5580.00	-60.90	-51.00	1.30	-49.70	-13.00	-36.70

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 18900	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-57.20	-50.90	1.30	-49.60	-13.00	-36.60
2	5640.00	-61.40	-50.60	1.30	-49.30	-13.00	-36.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760.00	-60.50	-54.40	1.30	-53.10	-13.00	-40.10
2	5640.00	-61.80	-52.00	1.30	-50.70	-13.00	-37.70

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 19100	Frequency Range	Above 1000MHz
Environmental Conditions	25deg. C, 65%RH	Input Power	120Vac, 60Hz
Tested By	Ted Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3800.00	-59.20	-53.00	1.30	-51.70	-13.00	-38.70
2	5700.00	-61.90	-51.00	1.20	-49.80	-13.00	-36.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3800.00	-60.60	-54.50	1.30	-53.20	-13.00	-40.20
2	5700.00	-62.00	-52.30	1.20	-51.10	-13.00	-38.10

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25

Channel Bandwidth: 1.4MHz

Mode	TX channel 26047	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.40	-49.15	-40.59	1.35	-39.24	-13.00	-26.24
2	5552.10	-49.45	-36.63	1.36	-35.27	-13.00	-22.27
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.48	-53.31	-45.03	1.35	-43.68	-13.00	-30.68
2	5552.10	-54.97	-42.95	1.36	-41.59	-13.00	-28.59

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-49.09	-40.64	1.33	-39.31	-13.00	-26.31
2	5647.50	-51.76	-38.72	1.28	-37.44	-13.00	-24.44
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-56.12	-47.90	1.33	-46.57	-13.00	-33.57
2	5647.50	-54.59	-42.70	1.28	-41.42	-13.00	-28.42

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26683	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3828.60	-49.53	-41.13	1.32	-39.81	-13.00	-26.81
2	5742.90	-50.67	-37.57	1.23	-36.34	-13.00	-23.34
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3828.60	-54.66	-46.31	1.32	-44.99	-13.00	-31.99
2	**5742.90**	**-43.24**	**-30.92**	**1.23**	**-29.69**	**-13.00**	**-16.69**

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 3MHz

Mode	TX channel 26055	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703.00	-51.80	-45.40	1.40	-44.00	-13.00	-31.00
2	5554.50	-48.80	-38.00	1.30	-36.70	-13.00	-23.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703.00	-57.80	-51.80	1.40	-50.40	-13.00	-37.40
2	5554.50	-54.40	-44.40	1.30	-43.10	-13.00	-30.10

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-50.40	-44.00	1.30	-42.70	-13.00	-29.70
2	5647.50	-51.40	-40.60	1.30	-39.30	-13.00	-26.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-56.80	-50.60	1.30	-49.30	-13.00	-36.30
2	5647.50	-54.10	-44.40	1.30	-43.10	-13.00	-30.10

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26675	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3827.00	-50.00	-43.90	1.40	-42.50	-13.00	-29.50
2	5740.50	-50.50	-39.60	1.20	-38.40	-13.00	-25.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3827.00	-54.50	-48.40	1.40	-47.00	-13.00	-34.00
2	5740.50	-53.50	-43.30	1.20	-42.10	-13.00	-29.10

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 5MHz

Mode	TX channel 26065	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.00	-52.40	-46.00	1.40	-44.60	-13.00	-31.60
2	5557.50	-48.90	-38.20	1.30	-36.90	-13.00	-23.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705.00	-57.00	-50.90	1.40	-49.50	-13.00	-36.50
2	5557.50	-54.00	-44.10	1.30	-42.80	-13.00	-29.80

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-49.20	-42.90	1.30	-41.60	-13.00	-28.60
2	5647.50	-51.60	-40.80	1.30	-39.50	-13.00	-26.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-56.20	-50.00	1.30	-48.70	-13.00	-35.70
2	5647.50	-53.50	-43.80	1.30	-42.50	-13.00	-29.50

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26665	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3825.00	-49.10	-43.00	1.40	-41.60	-13.00	-28.60
2	5737.50	-51.10	-40.20	1.20	-39.00	-13.00	-26.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3825.00	-57.20	-51.20	1.40	-49.80	-13.00	-36.80
2	5737.50	-52.60	-42.40	1.20	-41.20	-13.00	-28.20

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 10MHz

Mode	TX channel 26090	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-52.60	-46.30	1.40	-44.90	-13.00	-31.90
2	5565.00	-48.60	-37.90	1.30	-36.60	-13.00	-23.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-58.20	-52.20	1.40	-50.80	-13.00	-37.80
2	5565.00	-55.40	-45.50	1.30	-44.20	-13.00	-31.20

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-49.40	-43.00	1.30	-41.70	-13.00	-28.70
2	5467.50	-51.90	-41.60	1.50	-40.10	-13.00	-27.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-56.00	-49.90	1.30	-48.60	-13.00	-35.60
2	5647.50	-55.00	-45.30	1.30	-44.00	-13.00	-31.00

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26640	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3820.00	-48.10	-42.00	1.40	-40.60	-13.00	-27.60
2	5730.00	-51.90	-41.00	1.20	-39.80	-13.00	-26.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3820.00	-56.70	-50.60	1.40	-49.20	-13.00	-36.20
2	5730.00	-52.90	-42.80	1.20	-41.60	-13.00	-28.60

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 15MHz

Mode	TX channel 26115	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715.00	-52.50	-46.20	1.40	-44.80	-13.00	-31.80
2	5572.50	-48.50	-37.80	1.30	-36.50	-13.00	-23.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715.00	-58.70	-52.60	1.40	-51.20	-13.00	-38.20
2	5572.50	-56.00	-46.20	1.30	-44.90	-13.00	-31.90

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-48.80	-42.40	1.30	-41.10	-13.00	-28.10
2	5647.50	-52.40	-41.60	1.30	-40.30	-13.00	-27.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-57.50	-51.30	1.30	-50.00	-13.00	-37.00
2	5647.50	-57.30	-47.60	1.30	-46.30	-13.00	-33.30

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26615	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.00	-50.40	-44.30	1.40	-42.90	-13.00	-29.90
2	5722.50	-52.50	-41.60	1.20	-40.40	-13.00	-27.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.00	-58.50	-52.40	1.40	-51.00	-13.00	-38.00
2	5722.50	-53.40	-43.40	1.20	-42.20	-13.00	-29.20

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 20MHz

Mode	TX channel 26140	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720.00	-52.20	-45.90	1.40	-44.50	-13.00	-31.50
2	5580.00	-47.90	-37.00	1.30	-35.70	-13.00	-22.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720.00	-58.80	-52.80	1.40	-51.40	-13.00	-38.40
2	5580.00	-55.90	-46.10	1.30	-44.80	-13.00	-31.80

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26365	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-48.90	-42.50	1.30	-41.20	-13.00	-28.20
2	5647.50	-53.60	-42.80	1.30	-41.50	-13.00	-28.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3765.00	-56.30	-50.20	1.30	-48.90	-13.00	-35.90
2	5647.50	-57.40	-47.70	1.30	-46.40	-13.00	-33.40

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 26590	Frequency Range	Above 1000MHz
Environmental Conditions	16deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Frank Liu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810.00	-51.80	-45.50	1.30	-44.20	-13.00	-31.20
2	5715.00	-52.90	-42.00	1.20	-40.80	-13.00	-27.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810.00	-58.20	-52.10	1.30	-50.80	-13.00	-37.80
2	5715.00	-55.10	-45.20	1.20	-44.00	-13.00	-31.00

Remarks:
1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

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.

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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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