

FCC Test Report (PART 24)

Report No.: RF190617E03B-2

FCC ID: APYHRO00274

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Issued Date: Aug. 22, 2019

Applicant: Sharp Corporation

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**FCC Registration /
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Release Control Record

Issue No.	Description	Date Issued
RF190617E03B-2	Original release.	Aug. 22, 2019

1 Certificate of Conformity

Product: Wireless router

Sample Status: ENGINEERING SAMPLE

Applicant: Sharp Corporation

Test Date: July 15 to 24, 2019

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 : Wendy Wu , **Date:** Aug. 22, 2019
Wendy Wu / Specialist

Approved by : May Chen , **Date:** Aug. 22, 2019
May Chen / Manager

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Equivalent Isotropically Radiated Power	PASS	Meet the requirement of limit.
2.1046 24.232(d)	Peak To Average Ratio	PASS	Meet the requirement of limit.
2.1047	Modulation characteristics	PASS	Meet the requirement
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 -11.45dB at 7520MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.8 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.1 dB
	6GHz ~ 18GHz	4.9 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Test Site and Instruments

For radiated spurious emissions test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Pre-Amplifier EMCI	EMC001340	980142	Jan. 25, 2019	Jan. 24, 2020
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Oct. 30, 2018	Oct. 29, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-4-1	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-2	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-3	Mar. 19, 2019	Mar. 18, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Sep. 27, 2018	Sep. 26, 2019
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980385	Aug. 16, 2018	Aug. 15, 2019
RF Cable	EMC104-SM-SM-1200	160923	Jan. 28, 2019	Jan. 27, 2020
RF Cable	104 RF cable	131215	Jan. 10, 2019	Jan. 09, 2020
RF Cable	EMC104-SM-SM-6000	180418	May 03, 2019	May 02, 2020
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 966 Chamber No. 4.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: July 20 to 24, 2019

For other test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 04, 2019	June 03, 2020
Spectrum Analyzer Agilent	E4446A	MY48250253	Aug. 01, 2018	July 31, 2019
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
AC Power Source Extech Electronics	6205	1440452	NA	NA
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 09, 2019	Jan. 08, 2020
True RMS Clamp Meter FLUKE	325	31130711WS	May 21, 2019	May 20, 2020
ESG Vector signal generator Agilent	E4438C	MY45094468/ 005 506 602 UK6 UNJ	Nov. 19, 2018	Nov. 18, 2019
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Feb. 11, 2019	Feb. 10, 2020
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Feb. 11, 2019	Feb. 10, 2020
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: July 15 to 18, 2019

3 General Information

3.1 General Description of EUT

Product	Wireless router	
Status of EUT	ENGINEERING SAMPLE	
Power Supply Rating	Refer to Note	
Modulation Type	WCDMA, HSDPA, HSUPA, DC-HSDPA	BPSK
	LTE Band 2	QPSK, 16QAM, 64QAM
Operating Frequency	WCDMA Band 2	1852.4MHz ~ 1907.6MHz
	LTE Band 2	1850.7MHz ~ 1909.3MHz
Max. EIRP Power	WCDMA Band 2	21.47dBm
	LTE Band 2 (Channel Bandwidth 1.4MHz)	20.62dBm
	LTE Band 2 (Channel Bandwidth 3MHz)	20.67dBm
	LTE Band 2 (Channel Bandwidth 5MHz)	20.62dBm
	LTE Band 2 (Channel Bandwidth 10MHz)	20.59dBm
	LTE Band 2 (Channel Bandwidth 15MHz)	20.72dBm
	LTE Band 2 (Channel Bandwidth 20MHz)	20.74dBm
	LTE Band 2 (Channel Bandwidth 20MHz)	20.74dBm
Emission Designator	WCDMA Band 2	4M13F9W
	LTE Band 2 (Channel Bandwidth 1.4MHz)	QPSK: 1M08G7D 16QAM: 1M09D7W 64QAW: 1M09D7W
	LTE Band 2 (Channel Bandwidth 3MHz)	QPSK: 2M70G7D 16QAM: 2M68D7W 64QAW: 2M70D7W
	LTE Band 2 (Channel Bandwidth 5MHz)	QPSK: 4M50G7D 16QAM: 4M51D7W 64QAW: 4M51D7W
	LTE Band 2 (Channel Bandwidth 10MHz)	QPSK: 9M00G7D 16QAM: 9M00D7W 64QAW: 9M00D7W
	LTE Band 2 (Channel Bandwidth 15MHz)	QPSK: 13M5G7D 16QAM: 13M5D7W 64QAW: 13M5D7W
	LTE Band 2 (Channel Bandwidth 20MHz)	QPSK: 18M0G7D 16QAM: 18M0D7W 64QAW: 18M0D7W
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	Cradle x1 (Option, Model: J03W039.02) AC Adapter x 1	
Data Cable Supplied	NA	

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN	WWAN

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. The EUT must be supplied one power adapter or Battery as the following table:

Adapter		
Model No.		Spec.
SB-AC19TCPD		Input: 100-240V, 0.7A, 50/60Hz Output: 5V/7V/9V/12V, 3.0A/3.0A/3.0A/2.25A DC output cable (Unshielded, 1.6m)
Battery		
Brand	Model No.	Spec.
NA	UBATIA301AFN2	3.85 Vdc, 4000mAh

3. The antennas provided to the EUT, please refer to the following table:

Antenna No.	RF Chain No.	Antenna Net Gain(dBi)	Frequency range (MHz)	Antenna Type	Connector Type
1	Main	Please refer to below table	Please refer to below table	PIFA	NA
2	Aux	Please refer to below table	Please refer to below table	PIFA	NA
3	Aux / chain0	Please refer to below table	Please refer to below table	PIFA	NA
4	Aux / chain1	Please refer to below table	Please refer to below table	PIFA	NA

Antenna gain list					
Band	Freq. Range (MHz)	Gain (dBi)			
		Ant 1 (Main)	Ant 2 (Aux)	Ant 3 (Aux / chain0)	Ant 4 (Aux / chain1)
WLAN 2.4GHz	2.4~2.4835	NA	NA	-0.843	-0.484
WCDMA II (B2)	1850~1910	-2.01	-2.67	-2.67	-3.77
WCDMA IV (B4)	1710~1755	-2.63	-3.67	-3.67	-3.67
WCDMA V (B5)	824~849	-2.21	NA	NA	NA
LTE Band (2)	1850~1910	-2.01	-2.67	-2.67	-3.77
LTE Band (4)	1710~1755	-2.63	-3.67	-3.67	-3.67
LTE Band (5)	824~849	-2.21	NA	NA	NA
LTE Band (12)	698~716	-6.05	NA	NA	NA
LTE Band (17)	704~716	-6.05	NA	NA	NA

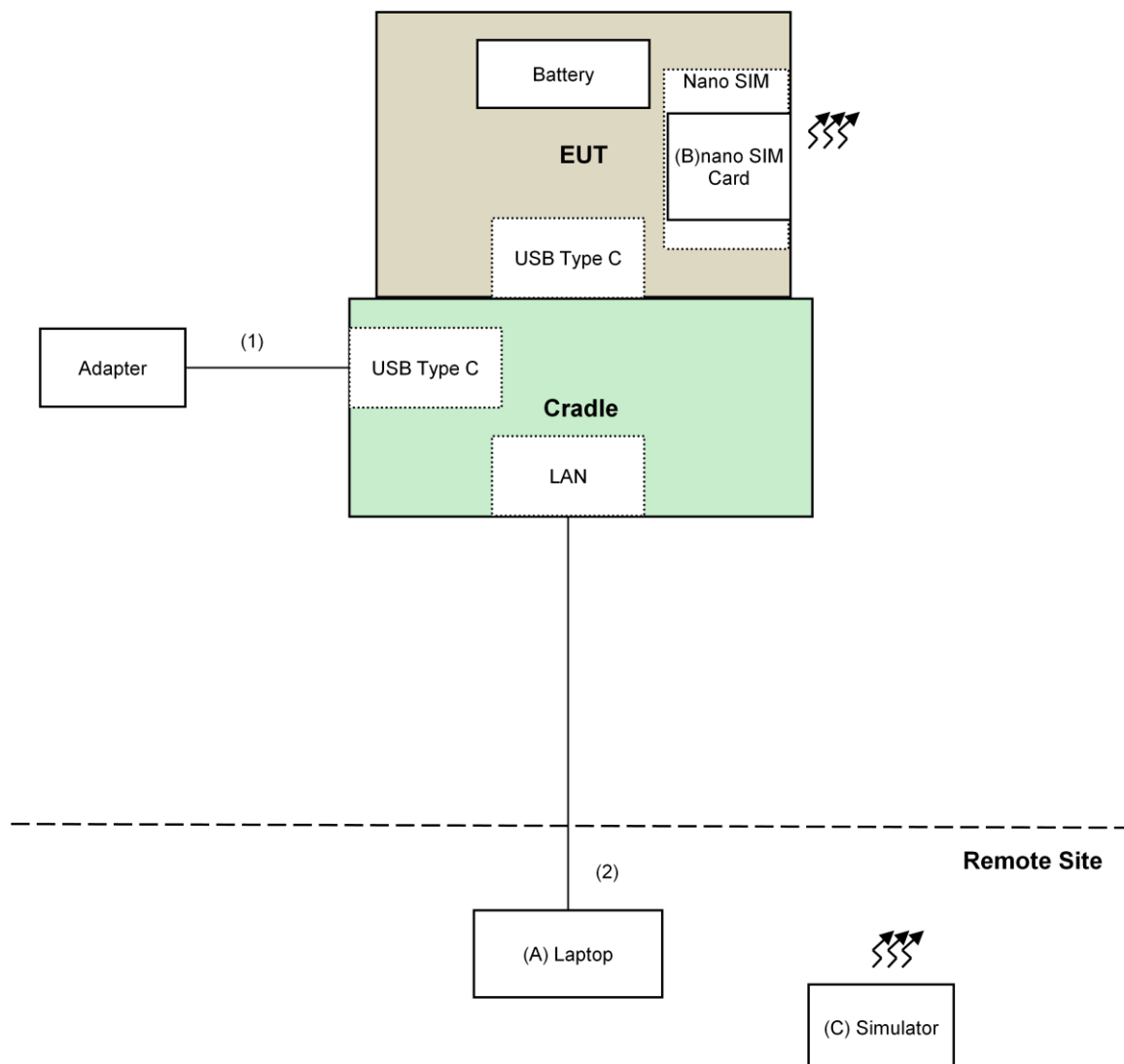
4. For radiated emissions, the EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	Power from USB adapter (positioned: X-plane)
Mode B	Power from USB adapter (positioned: Y-plane)
Mode C	Power from USB adapter (positioned: Z-plane)
Mode D	Power from Battery (positioned: Z-plane)
Mode E	Power from Cradle

Note: From the above modes, the worst case was found in **Mode E**. Therefore only the test data of the mode was recorded in this report.

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

3.2 Configuration of System under Test



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.	Laptop	DELL	E6420	B92T3R1	FCC DoC	Provided by Lab
B.	SIM Card	NA	NA	NA	NA	Provided by Lab
C.	Simulator	Anritsu	MT8820C	6201127458	NA	Provided by Lab

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.6	No	0	Supplied by client
2.	RJ-45 Cable	1	10	No	0	Provided by Lab

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

WCDMA Band 2

Test Item	Available Channel	Tested Channel	Mode
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
Frequency Stability	9262 to 9538	9400	WCDMA
Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
Band Edge	9262 to 9538	9262, 9538	WCDMA
Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
Conducted Emission	9262 to 9538	9262, 9400, 9538	WCDMA
Radiated Emission Below 1GHz	9262 to 9538	9262, 9400, 9538	WCDMA
Radiated Emission Above 1GHz	9262 to 9538	9262, 9400, 9538	WCDMA

LTE Band 2

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900 19193	1.4MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK/16QAM/64QAM	1RB / 0 RB offset
	18607 to 19193	18607, 18900 19193	1.4MHz	QPSK/16QAM/64QAM	Full RB
Frequency Stability	18607 to 19193	18900	1.4MHz	QPSK	-
	18615 to 19185	18900	3MHz	QPSK	-
	18625 to 19175	18900	5MHz	QPSK	-
	18650 to 19150	18900	10MHz	QPSK	-
	18675 to 19125	18900	15MHz	QPSK	-
	18700 to 19100	18900	20MHz	QPSK	-
Occupied Bandwidth	18607 to 19193	18607, 18900 19193	1.4MHz	QPSK/16QAM/64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK/16QAM/64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK/16QAM/64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK/16QAM/64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK/16QAM/64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK/16QAM/64QAM	Full RB
Peak to Average Ratio	18607 to 19193	18607, 18900 19193	1.4MHz	QPSK/16QAM/64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK/16QAM/64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK/16QAM/64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK/16QAM/64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK/16QAM/64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK/16QAM/64QAM	Full RB
Band Edge	18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
		19193			1 RB / 5 RB Offset
		18607, 19193			6 RB / 0 RB Offset
	18615 to 19185	18615	3MHz	QPSK	1 RB / 0 RB Offset
		19185			1 RB / 14 RB Offset
		18615, 19185			15 RB / 0 RB Offset
	18625 to 19175	18625,	5MHz	QPSK	1 RB / 0 RB Offset
		19175			1 RB / 24 RB Offset
		18625, 19175			25 RB / 0 RB Offset
	18650 to 19150	18650	10MHz	QPSK	1 RB / 0 RB Offset
		19150			1 RB / 49 RB Offset
		18650, 19150			50 RB / 0 RB Offset
	18675 to 19125	18675,	15MHz	QPSK	1 RB / 0 RB Offset
		19125			1 RB / 74 RB Offset
		18675, 19125			75 RB / 0 RB Offset
	18700 to 19100	18700.	20MHz	QPSK	1 RB / 0 RB Offset
		19100			1 RB / 99 RB Offset
		18700. 19100			100 RB / 0 RB Offset
Conducted 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	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

NOTE:

All supported modulation types were evaluated. The Worst case of QPSK was selected. Therefore, the Band Edge, Frequency Stability, Conducuted Emission and Radiated Emission were presented under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power (System)	Tested By
EIRP	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Frequency Stability	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Occupied Bandwidth	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Band Edge	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Peak to Average Ratio	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Conducuted Emission	25deg. C, 63%RH	120Vac, 60Hz	Jyunchun Lin
Radiated Emission Below 1GHz	25deg. C, 75%RH	120Vac, 60Hz	Robert Cheng
Radiated Emission Above 1GHz	25deg. C, 75%RH	120Vac, 60Hz	Robert Cheng

3.4 EUT Operating Conditions

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 Subpart E

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

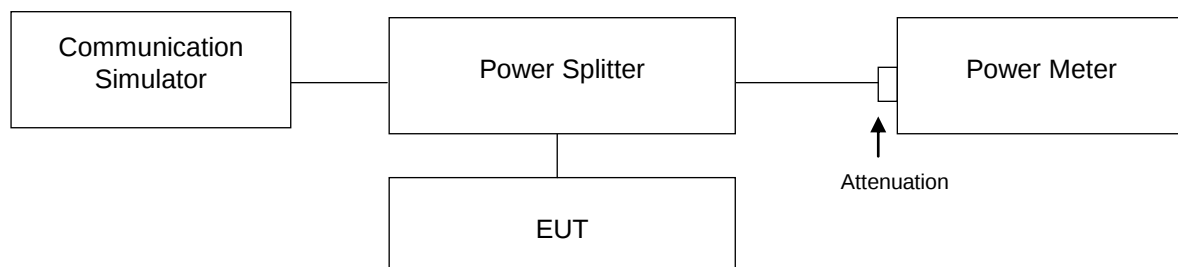
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA/LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP Measurement:

- a. $EIRP = \text{Conducted Output power level} + \text{Antenna gain}$.

4.1.3 Test Setup



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

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA B2		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC	23.40	23.48	23.25
HSDPA Subtest-1	22.36	22.38	22.24
HSDPA Subtest-2	22.32	22.44	22.28
HSDPA Subtest-3	21.85	22.00	21.80
HSDPA Subtest-4	21.92	22.00	21.90
DC-HSDPA Subtest-1	22.25	22.29	22.20
DC-HSDPA Subtest-2	22.21	22.25	22.18
DC-HSDPA Subtest-3	21.77	21.88	21.76
DC-HSDPA Subtest-4	21.80	21.93	21.81
HSUPA Subtest-1	22.36	22.48	22.31
HSUPA Subtest-2	20.41	20.45	20.32
HSUPA Subtest-3	21.33	21.45	21.33
HSUPA Subtest-4	20.31	20.43	20.31
HSUPA Subtest-5	22.30	22.40	22.30

LTE Band 2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18607	18900	19193		18607	18900	19193		18607	18900	19193	
			1850.7	1880	1909.3		1850.7	1880	1909.3		1850.7	1880	1909.3	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 1.4M	1	0	22.63	22.54	22.57	0	21.00	20.91	20.80	1	19.93	19.90	19.93	2
	1	2	22.61	22.60	22.47	0	20.86	20.94	20.91	1	20.01	19.83	19.86	2
	1	5	22.53	22.46	22.35	0	20.82	20.81	20.81	1	19.94	19.99	19.76	2
	3	0	22.58	22.50	22.55	0	21.83	21.93	21.89	1	20.97	20.86	20.84	2
	3	1	22.56	22.52	22.43	0	21.86	21.74	21.67	1	20.83	20.81	20.71	2
	3	3	22.41	22.48	22.52	0	21.87	21.81	21.63	1	20.86	20.61	20.56	2
	6	0	21.70	21.58	21.47	1	20.80	20.80	20.72	2	19.93	19.83	19.84	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18615	18900	19185		18615	18900	19185		18615	18900	19185	
			1851.5	1880	1908.5		1851.5	1880	1908.5		1851.5	1880	1908.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 3M	1	0	22.68	22.48	22.49	0	21.01	20.84	20.84	1	19.96	19.86	19.94	2
	1	7	22.47	22.61	22.55	0	20.88	20.90	20.78	1	19.91	19.85	19.76	2
	1	14	22.46	22.48	22.45	0	20.85	20.95	20.84	1	20.00	19.93	19.85	2
	8	0	21.61	21.59	21.52	1	20.90	20.88	20.71	2	19.76	19.83	19.70	3
	8	3	21.54	21.44	21.42	1	20.86	20.74	20.75	2	19.75	19.71	19.80	3
	8	7	21.57	21.51	21.38	1	20.87	20.76	20.69	2	19.82	19.65	19.61	3
	15	0	21.49	21.50	21.54	1	20.77	20.85	20.76	2	19.96	19.79	19.76	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18625	18900	19175		18625	18900	19175		18625	18900	19175	
			1852.5	1880	1907.5		1852.5	1880	1907.5		1852.5	1880	1907.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 5M	1	0	22.63	22.62	22.49	0	20.95	20.80	20.99	1	19.97	19.84	19.87	2
	1	12	22.48	22.59	22.39	0	20.84	20.93	20.77	1	19.90	19.96	19.76	2
	1	24	22.55	22.51	22.24	0	20.87	20.80	20.81	1	19.94	19.94	19.85	2
	12	0	21.66	21.52	21.31	1	20.88	20.91	20.70	2	19.84	19.87	19.81	3
	12	6	21.60	21.46	21.37	1	20.82	20.80	20.73	2	19.87	19.90	19.79	3
	12	13	21.63	21.45	21.29	1	20.85	20.78	20.67	2	19.80	19.78	19.76	3
	25	0	21.54	21.61	21.33	1	20.86	20.83	20.82	2	19.86	19.93	19.87	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18650	18900	19150		18650	18900	19150		18650	18900	19150	
			1855	1880	1905		1855	1880	1905		1855	1880	1905	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 10M	1	0	22.60	22.55	22.52	0	20.98	20.83	20.86	1	20.01	19.97	19.97	2
	1	24	22.54	22.55	22.52	0	20.92	20.89	20.86	1	20.02	19.81	19.78	2
	1	49	22.50	22.47	22.44	0	20.97	20.88	20.89	1	19.94	19.87	19.80	2
	25	0	21.52	21.54	21.44	1	20.90	20.96	20.78	2	19.92	19.73	19.80	3
	25	12	21.48	21.38	21.37	1	20.81	20.69	20.74	2	19.85	19.82	19.63	3
	25	25	21.47	21.50	21.43	1	20.86	20.79	20.58	2	19.86	19.66	19.68	3
	50	0	21.68	21.58	21.49	1	20.86	20.86	20.76	2	19.95	19.82	19.75	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18675	18900	19125		18675	18900	19125		18675	18900	19125	
			1857.5	1880	1902.5		1857.5	1880	1902.5		1857.5	1880	1902.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 15M	1	0	22.73	22.68	22.59	0	21.01	20.96	20.96	1	20.05	20.00	20.02	2
	1	37	22.63	22.64	22.55	0	21.02	21.00	20.93	1	19.99	20.00	19.91	2
	1	74	22.66	22.52	22.48	0	20.94	20.91	20.91	1	19.96	19.96	19.87	2
	36	0	21.66	21.65	21.51	1	20.95	20.90	20.81	2	19.91	19.93	19.81	3
	36	19	21.57	21.57	21.47	1	20.92	20.81	20.81	2	19.88	19.92	19.83	3
	36	39	21.59	21.59	21.51	1	20.87	20.86	20.77	2	19.95	19.81	19.73	3
	75	0	21.64	21.65	21.59	1	20.97	20.85	20.85	2	20.00	19.87	19.82	3

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18700	18900	19100		18700	18900	19100		18700	18900	19100	
			1860	1880	1900		1860	1880	1900		1860	1880	1900	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 20M	1	0	22.75	22.70	22.68	0	21.07	21.03	21.00	1	20.11	20.06	20.05	2
	1	50	22.71	22.68	22.62	0	21.02	21.00	20.95	1	20.08	20.01	19.97	2
	1	99	22.67	22.61	22.55	0	21.02	21.01	20.97	1	20.05	20.01	19.95	2
	50	0	21.70	21.66	21.61	1	21.00	21.00	20.90	2	20.00	19.95	19.90	3
	50	25	21.65	21.61	21.55	1	20.97	20.90	20.82	2	19.95	19.92	19.88	3
	50	50	21.65	21.61	21.56	1	20.95	20.88	20.77	2	19.95	19.83	19.80	3
	100	0	21.70	21.67	21.61	1	20.98	20.92	20.90	2	20.00	19.95	19.90	3

EIRP POWER

Band	WCDMA B2		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	23.40	23.48	23.25
Gain (dBi)	-2.01	-2.01	-2.01
Max EIRP Power (dBm)	21.39	21.47	21.24

LTE Band 2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18607	18900	19193		18607	18900	19193		18607	18900	19193	
			1850.7	1880	1909.3		1850.7	1880	1909.3		1850.7	1880	1909.3	
2 / 1.4M	1	0	22.63	22.54	22.57	0	21.00	20.91	20.80	1	19.93	19.90	19.93	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.62	20.53	20.56		18.99	18.90	18.79		17.92	17.89	17.92	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18615	18900	19185		18615	18900	19185		18615	18900	19185	
			1851.5	1880	1908.5		1851.5	1880	1908.5		1851.5	1880	1908.5	
2 / 3M	1	0	22.68	22.48	22.49	0	21.01	20.84	20.84	1	19.96	19.86	19.94	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.67	20.47	20.48		19.00	18.83	18.83		17.95	17.85	17.93	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18625	18900	19175		18625	18900	19175		18625	18900	19175	
			1852.5	1880	1907.5		1852.5	1880	1907.5		1852.5	1880	1907.5	
2 / 5M	1	0	22.63	22.62	22.49	0	20.95	20.80	20.99	1	19.97	19.84	19.87	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.62	20.61	20.48		18.94	18.79	18.98		17.96	17.83	17.86	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18650	18900	19150		20000	20175	20350		20000	20175	20350	
			1855	1880	1905		1715	1732.5	1750		1715	1732.5	1750	
2 / 10M	1	0	22.60	22.55	22.52	0	20.98	20.83	20.86	1	20.01	19.97	19.97	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.59	20.54	20.51		18.97	18.82	18.85		18.00	17.96	17.96	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18675	18900	19125		18675	18900	19125		18675	18900	19125	
			1857.5	1880	1902.5		1857.5	1880	1902.5		1857.5	1880	1902.5	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 15M	1	0	22.73	22.68	22.59	0	21.01	20.96	20.96	1	20.05	20.00	20.02	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.72	20.67	20.58		19.00	18.95	18.95		18.04	17.99	18.01	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)	64QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			18700	18900	19100		18700	18900	19100		18700	18900	19100	
			1860	1880	1900		1860	1880	1900		1860	1880	1900	
			MHz	MHz	MHz		MHz	MHz	MHz		MHz	MHz	MHz	
2 / 20M	1	0	22.75	22.70	22.68	0	21.07	21.03	21.00	1	20.11	20.06	20.05	2
Gain (dBi)			-2.01	-2.01	-2.01		-2.01	-2.01	-2.01		-2.01	-2.01	-2.01	
Max EIRP Power (dBm)			20.74	20.69	20.67		19.06	19.02	18.99		18.10	18.05	18.04	

4.2 Modulation characteristics Measurement

4.2.1 Limits of Modulation characteristics

N/A

4.2.2 Test Procedure

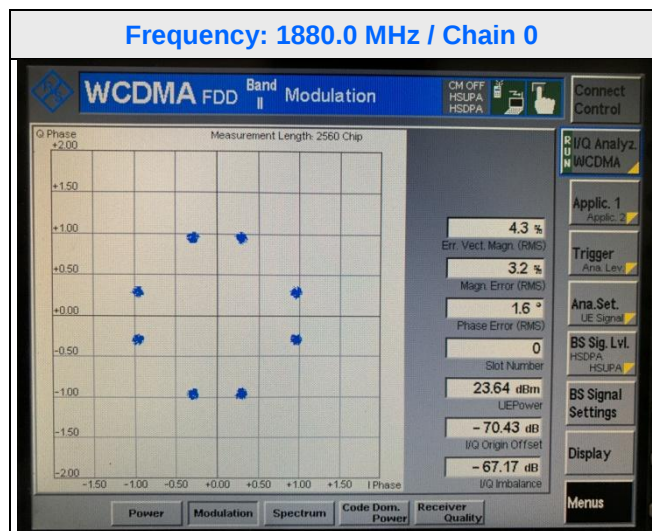
Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup

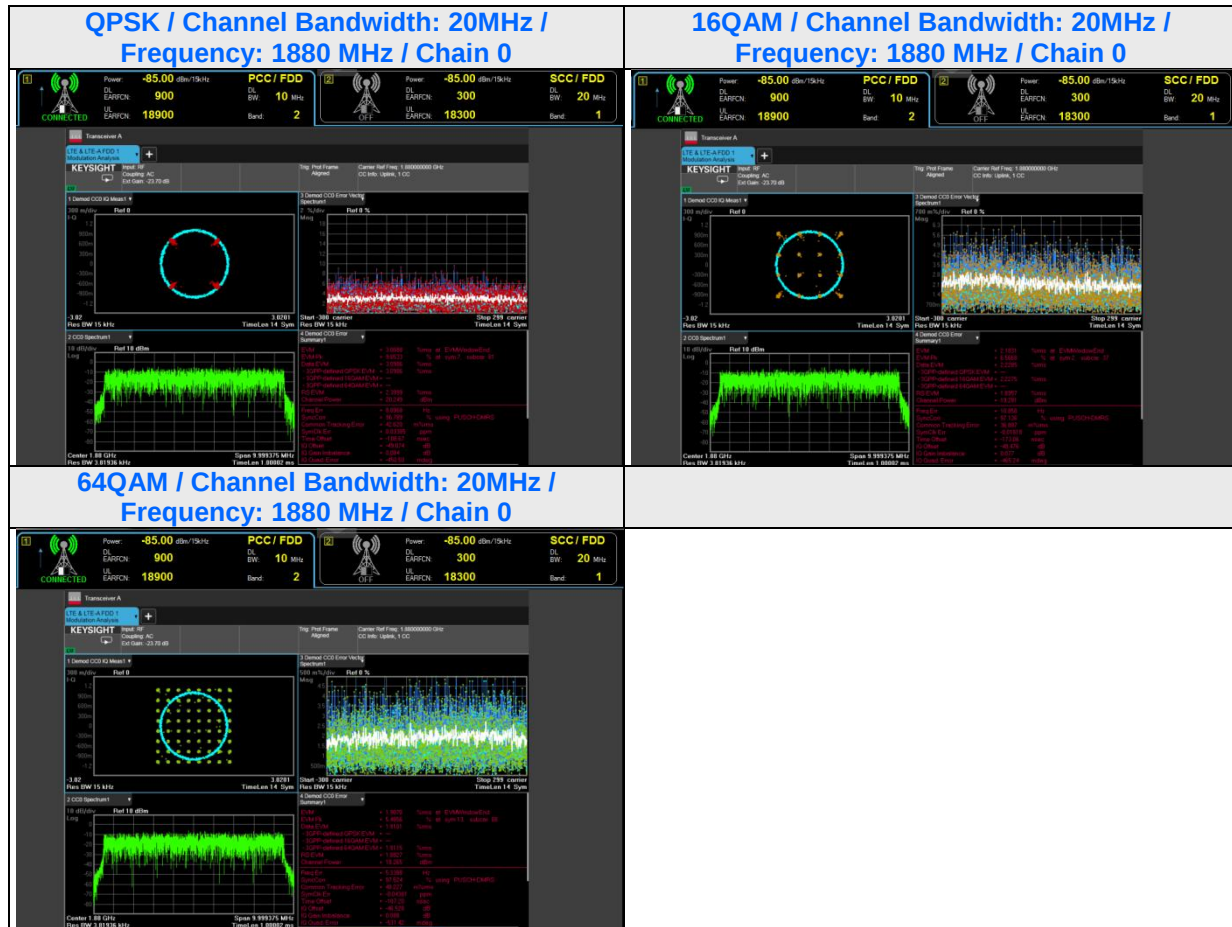


4.2.4 Test Results

WCDMA B2



LTE Band 2



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

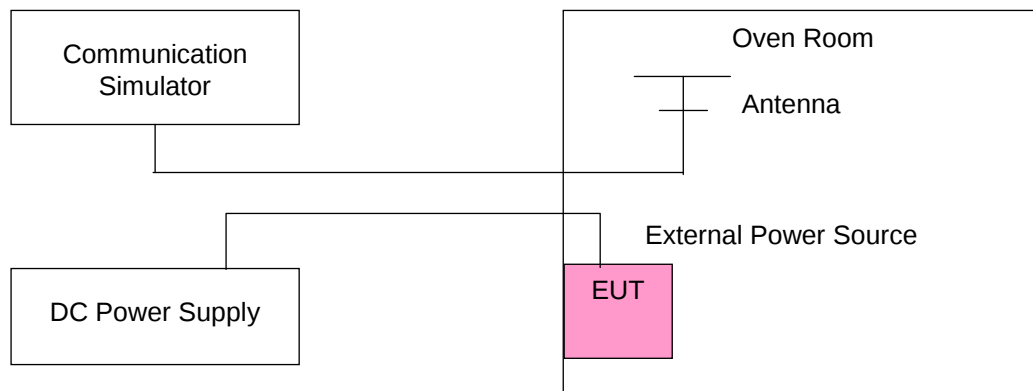
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

- 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.
- 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.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

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

4.3.3 Test Setup



4.3.4 Test Results

WCDMA

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (MHz)		Limit (MHz)	
	WCDMA B2		Low Edge	High Edge
	Low	High		
2.805	1850.41	1909.74	1850	1910
3.795	1850.26	1909.66	1850	1910

Frequency Error vs. Temperature.

TEMP. (°C)	Frequency Error (MHz)		Limit (MHz)	
	WCDMA B2		Low Edge	High Edge
	Low	High		
50	1850.40	1909.69	1850	1910
40	1850.41	1909.68	1850	1910
30	1850.25	1909.69	1850	1910
20	1850.33	1909.69	1850	1910
10	1850.33	1909.69	1850	1910
0	1850.38	1909.68	1850	1910
-10	1850.42	1909.68	1850	1910
-20	1850.37	1909.68	1850	1910
-30	1850.25	1909.68	1850	1910

LTE Band 2

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (MHz)												Limit (MHz)	
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz			
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low Edge	High Edge
2.805	1850.13	1909.89	1850.06	1909.83	1852.55	1907.44	1850.48	1909.45	1850.80	1909.31	1850.94	1908.98	1850	1910
3.795	1850.07	1909.83	1850.07	1909.85	1852.59	1907.56	1850.60	1909.50	1850.87	1909.23	1851.11	1908.88	1850	1910

Frequency Error vs. Temperature

Temp. (°C)	Frequency Error (MHz)												Limit (MHz)	
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz			
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low Edge	High Edge
50	1850.14	1909.75	1850.20	1909.84	1852.58	1907.53	1850.44	1909.54	1850.84	1909.23	1850.96	1908.98	1850	1910
40	1850.25	1909.81	1850.22	1909.78	1852.47	1907.53	1850.53	1909.45	1850.72	1909.29	1850.94	1909.00	1850	1910
30	1850.23	1909.85	1850.09	1909.77	1852.48	1907.40	1850.61	1909.55	1850.76	1909.26	1851.07	1908.94	1850	1910
20	1850.13	1909.89	1850.24	1909.82	1852.47	1907.49	1850.58	1909.57	1850.82	1909.16	1851.00	1909.01	1850	1910
10	1850.11	1909.82	1850.13	1909.91	1852.53	1907.51	1850.54	1909.52	1850.77	1909.14	1851.03	1908.92	1850	1910
0	1850.17	1909.93	1850.13	1909.84	1852.53	1907.55	1850.56	1909.46	1850.76	1909.23	1851.11	1909.03	1850	1910
-10	1850.10	1909.89	1850.20	1909.82	1852.59	1907.57	1850.47	1909.52	1850.87	1909.15	1851.05	1908.91	1850	1910
-20	1850.14	1909.90	1850.24	1909.91	1852.52	1907.48	1850.60	1909.40	1850.79	1909.23	1851.10	1908.95	1850	1910
-30	1850.25	1909.84	1850.12	1909.89	1852.45	1907.44	1850.61	1909.55	1850.85	1909.15	1850.95	1909.00	1850	1910

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

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. The bandwidth of the fundamental frequency was measured by spectrum analyzer with $RBW \geq 1\% \times OBW$ and $VBW \geq 3 \times VBW$.

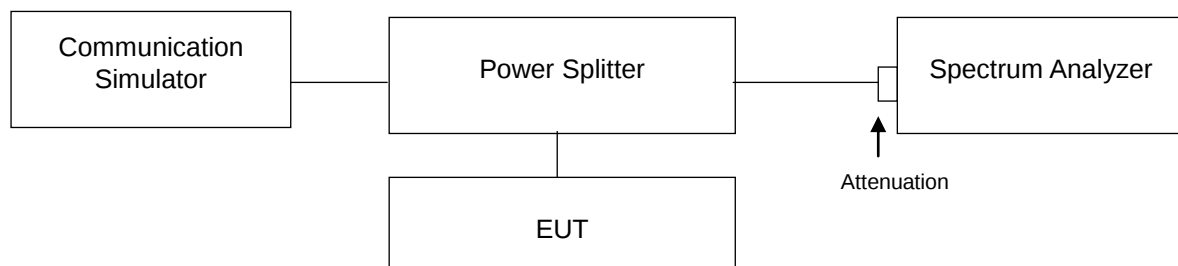
Occupied Bandwidth Measurement:

Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

26 dB Bandwidth Measurement:

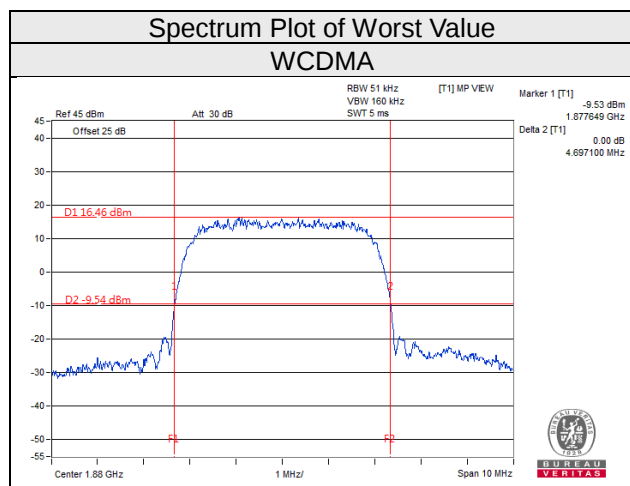
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26dB below the transmitter power.

4.4.2 Test Setup



4.4.3 Test Result (-26dB Bandwidth)

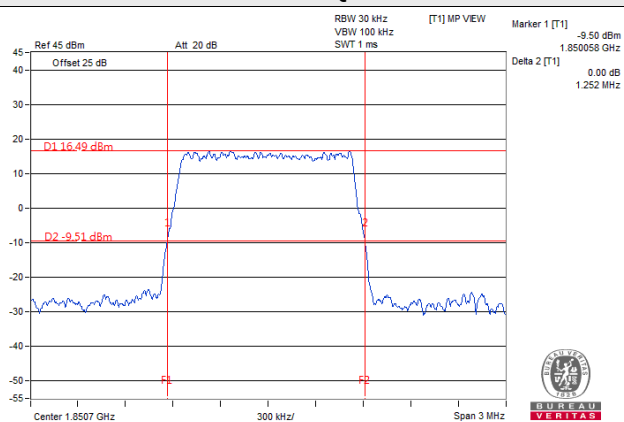
Channel	Freq. (MHz)	-26dB Bandwidth (MHz)
		WCDMA B2
9262	1852.4	4.66
9400	1880.0	4.69
9538	1907.6	4.68



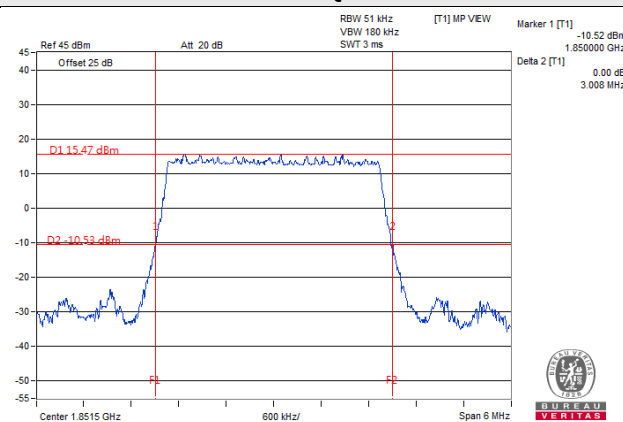
LTE Band 2									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	-26dB Bandwidth (MHz)			Channel	Frequency (MHz)	-26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18607	1850.7	1.25	1.23	1.24	18615	1851.5	3.00	2.98	2.96
18900	1880	1.24	1.23	1.25	18900	1880	2.99	2.96	2.96
19193	1909.3	1.22	1.24	1.24	19185	1908.5	3.00	2.96	2.97
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	-26dB Bandwidth (MHz)			Channel	Frequency (MHz)	-26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18625	1852.5	4.95	4.95	4.89	18650	1855	9.84	9.81	9.80
18900	1880	4.96	4.93	4.93	18900	1880	9.77	9.82	9.80
19175	1907.5	4.91	4.95	4.92	19150	1905	9.81	9.78	9.78
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	-26dB Bandwidth (MHz)			Channel	Frequency (MHz)	-26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18675	1857.5	14.71	14.69	14.69	18700	1860	19.66	19.59	19.60
18900	1880	14.64	14.64	14.60	18900	1880	19.38	19.39	19.49
19125	1902.5	14.69	14.64	14.67	19100	1900	19.43	19.48	19.48

Spectrum Plot of Worst Value

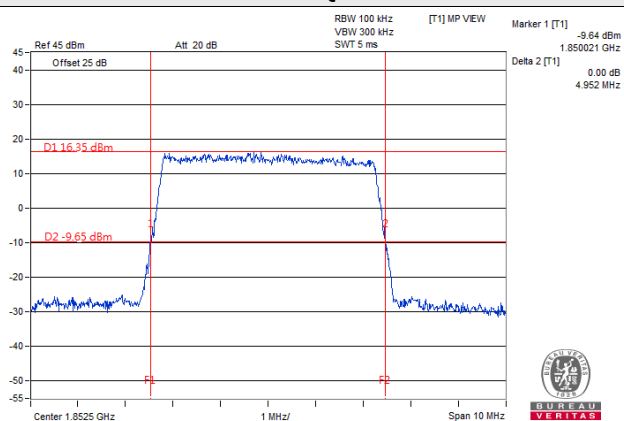
1.4MHz / QPSK



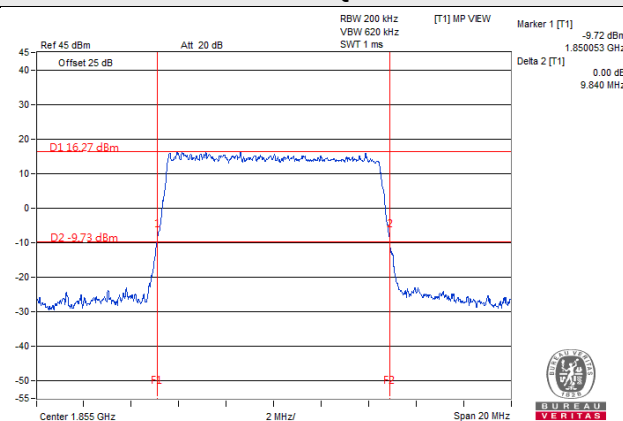
3MHz / QPSK



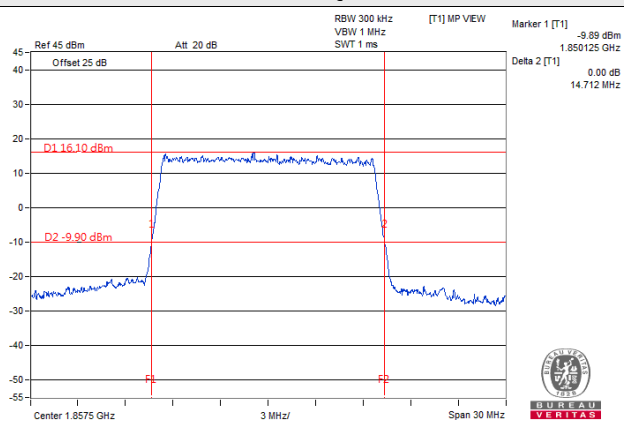
5MHz / QPSK



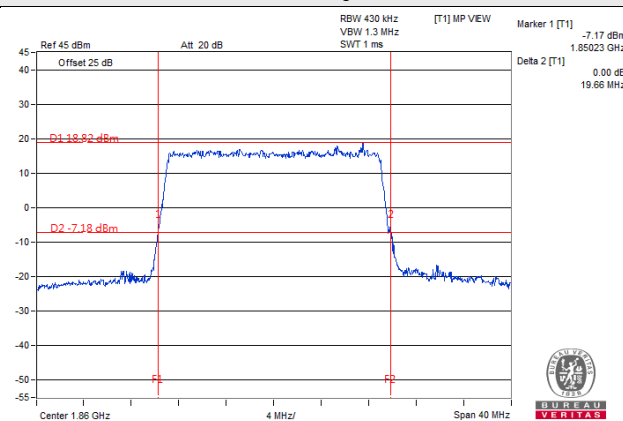
10MHz / QPSK



15MHz / QPSK

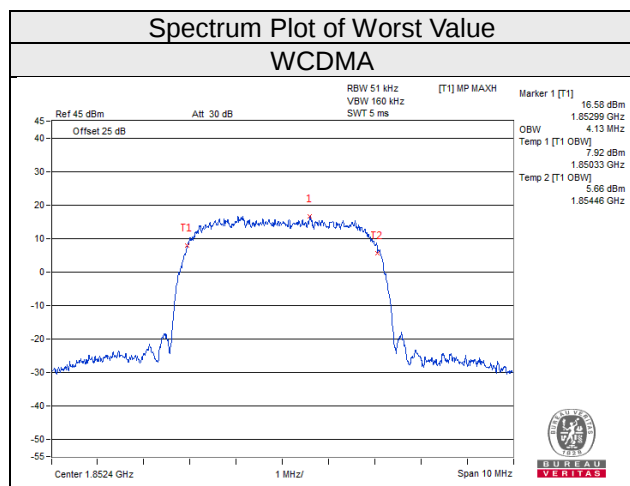


20MHz / QPSK



4.4.4 Test Result (Occupied Bandwidth)

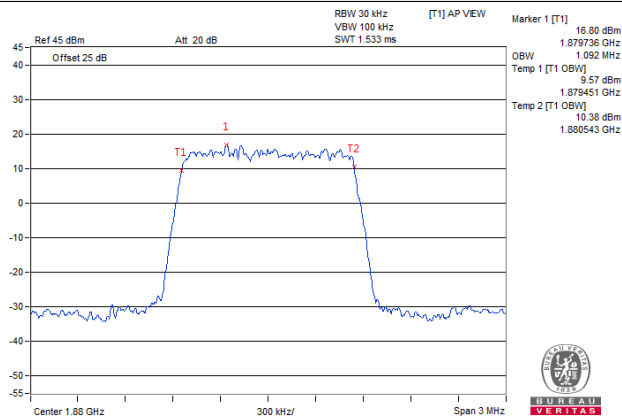
Channel	Freq. (MHz)	99% Occupied Bandwidth (MHz)
		WCDMA B2
9262	1852.4	4.13
9400	1880.0	4.12
9538	1907.6	4.13



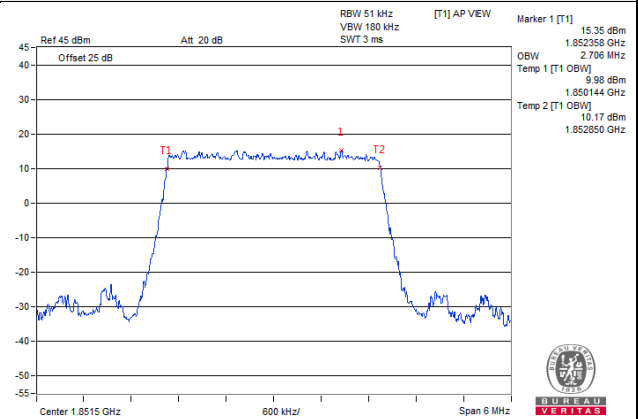
LTE Band 2									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18607	1850.7	1.08	1.08	1.09	18615	1851.5	2.70	2.68	2.70
18900	1880	1.08	1.09	1.08	18900	1880	2.70	2.68	2.70
19193	1909.3	1.08	1.08	1.08	19185	1907.5	2.70	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	64QAM			QPSK	16QAM	64QAM
18625	1852.5	4.50	4.51	4.51	18650	1855	9.00	9.00	9.00
18900	1880	4.50	4.51	4.50	18900	1880	8.98	8.98	8.96
19175	1907.5	4.50	4.49	4.49	19150	1905	8.98	8.98	8.98
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18675	1857.5	13.50	13.53	13.50	18700	1860	18.00	17.96	18.00
18900	1880	13.44	13.44	13.47	18900	1880	17.92	17.84	17.92
19125	1902.5	13.44	13.44	13.41	19100	1900	18.00	17.92	17.92

Spectrum Plot of Worst Value

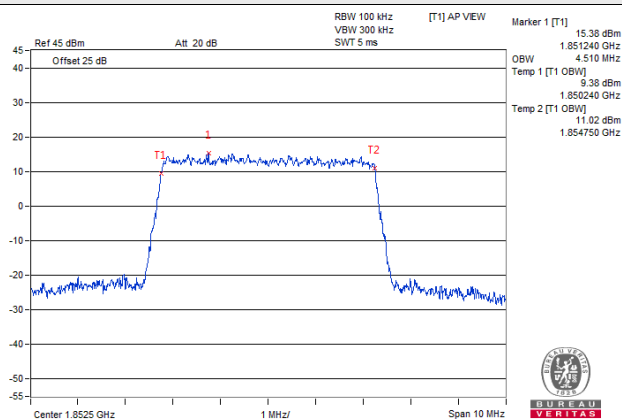
1.4MHz / 16QAM



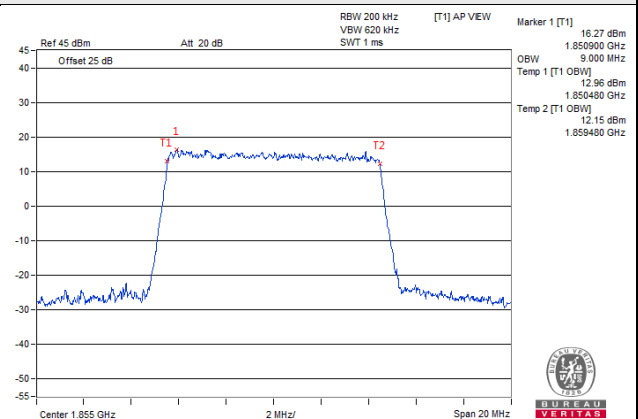
3MHz / QPSK



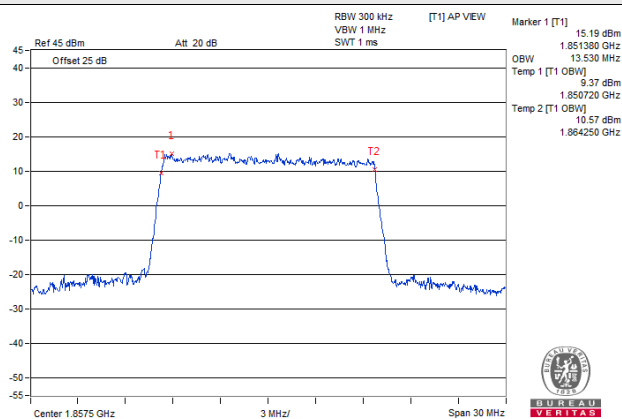
5MHz / 16QAM



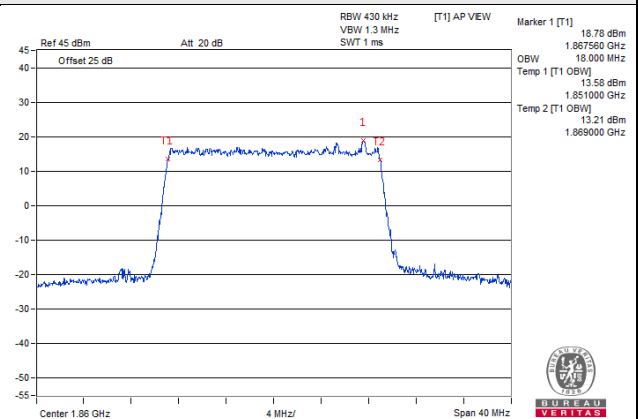
10MHz / QPSK



15MHz / 16QAM



20MHz / QPSK

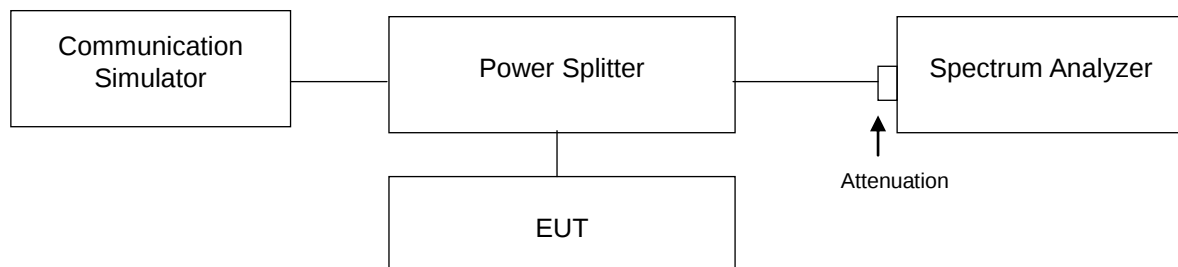


4.5 Band Edge Measurement

4.5.1 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.

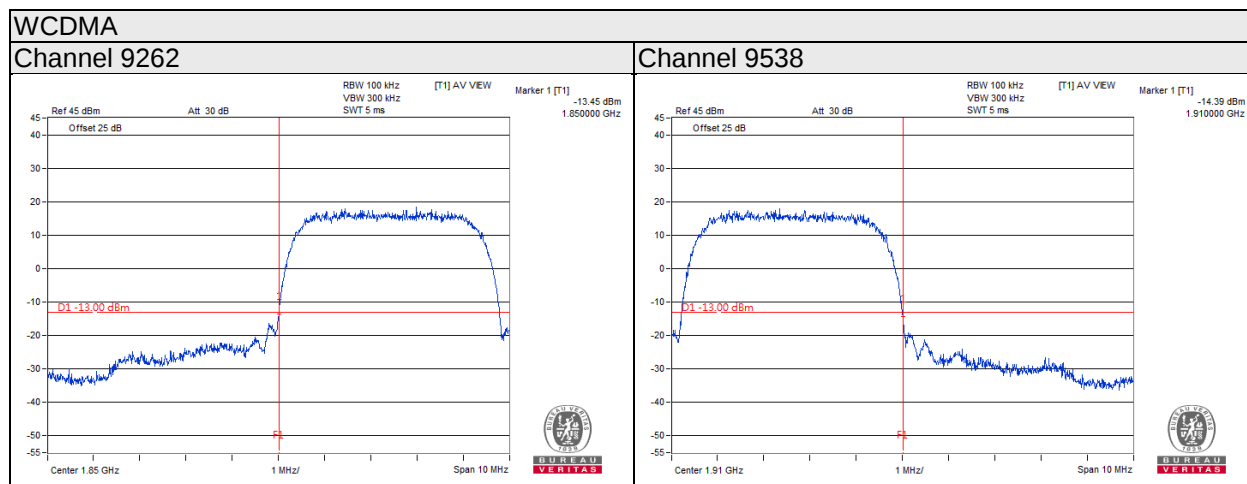
4.5.2 Test Setup



4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and RB of the spectrum is $>1\%$ emission bandwidth and VB of the spectrum is $\geq 3 \cdot RB$.
- Record the max trace plot into the test report.

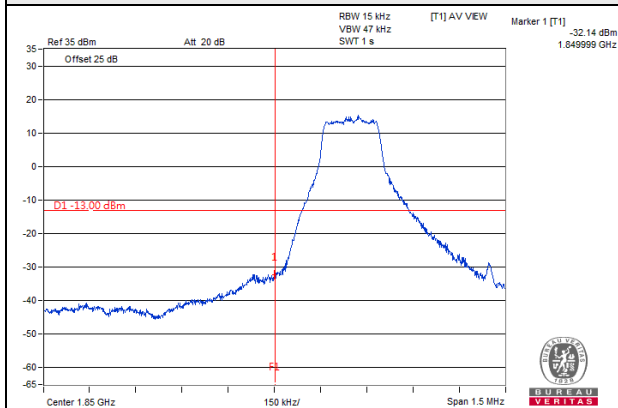
4.5.4 Test Results



LTE Band 2 Channel Band width: 1.4MHz

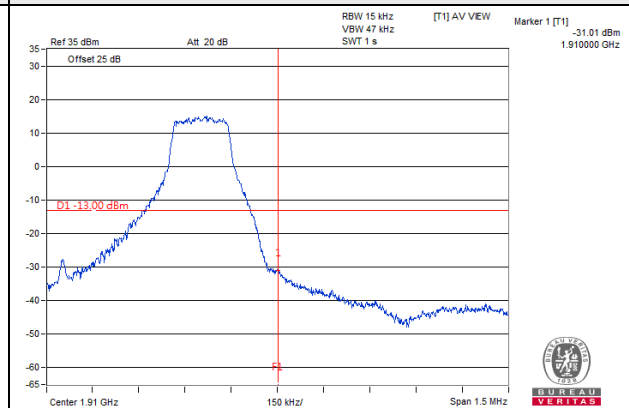
Channel 18607

1 RB

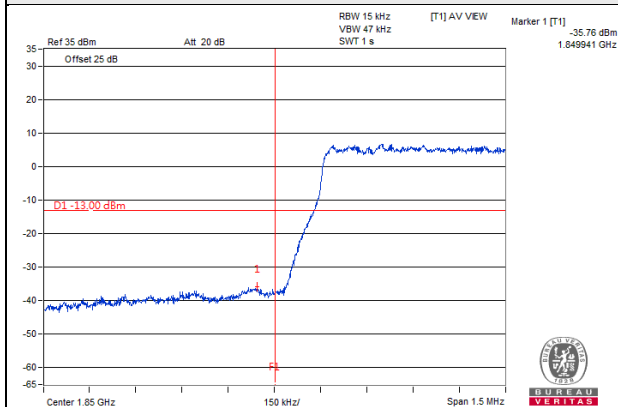


Channel 19193

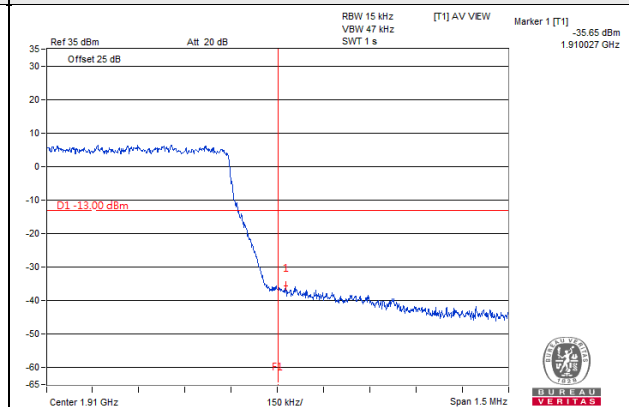
1 RB



6 RB



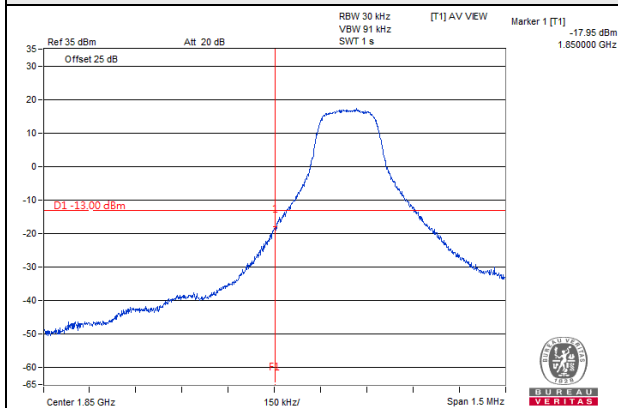
6 RB



LTE Band 2 Channel Band width: 3MHz

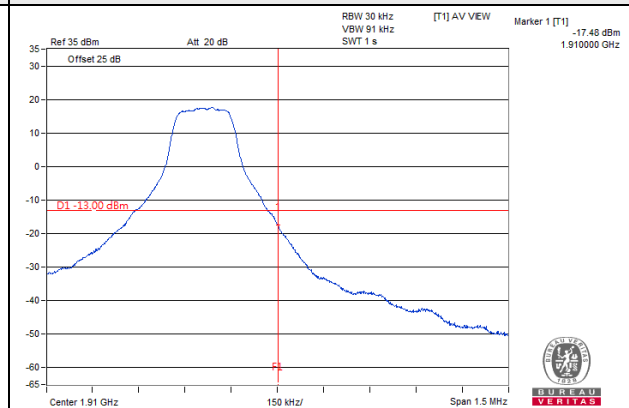
Channel 18615

1 RB

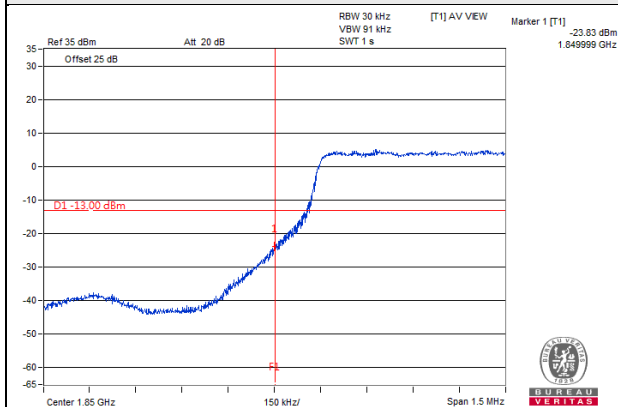


Channel 19185

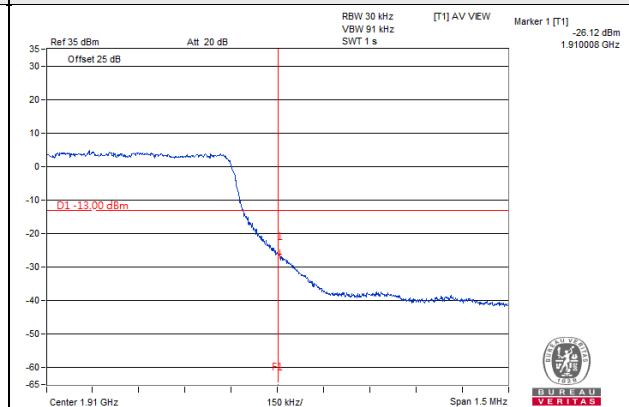
1 RB



15 RB



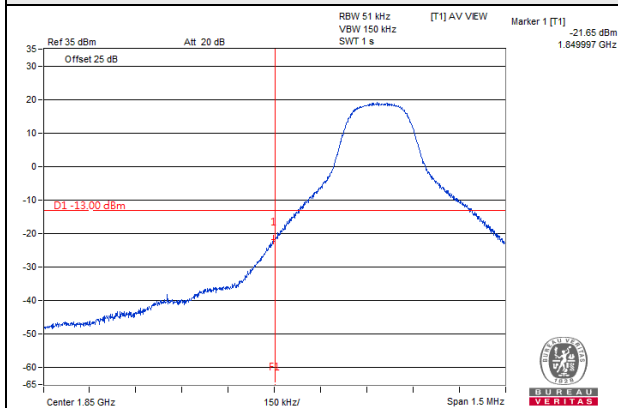
15 RB



LTE Band 2 Channel Band width: 5MHz

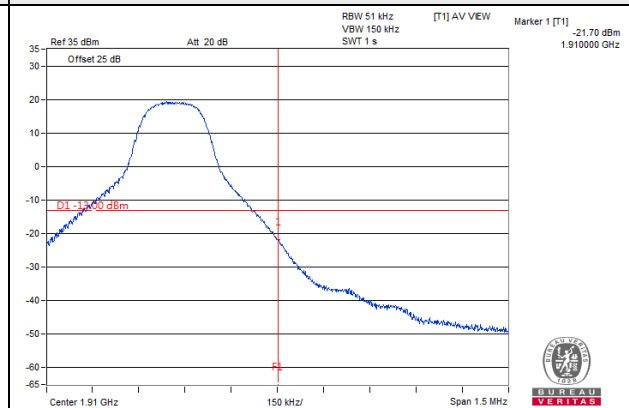
Channel 18625

1 RB

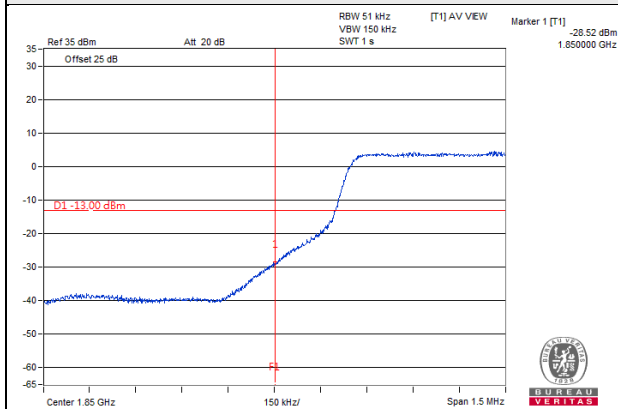


Channel 19175

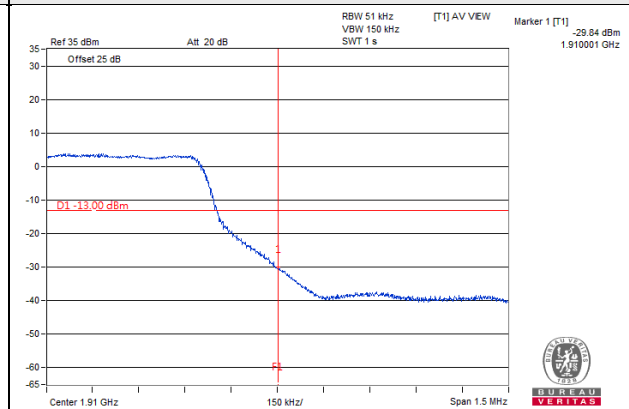
1 RB



25 RB



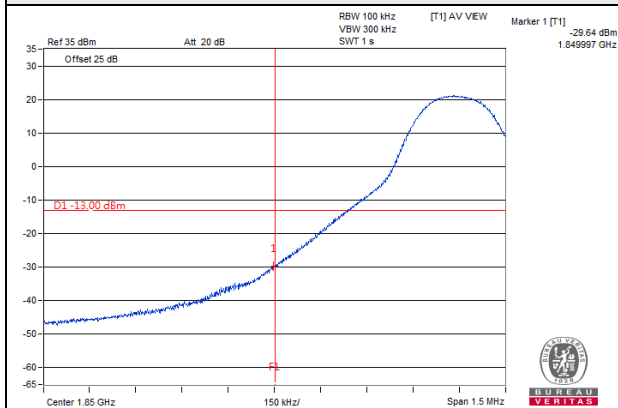
25 RB



LTE Band 2 Channel Band width: 10MHz

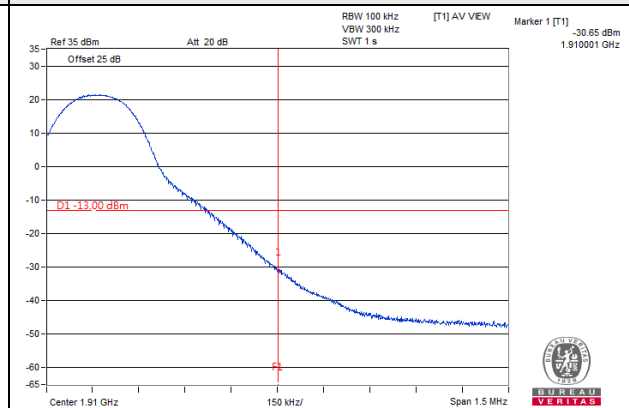
Channel 18650

1 RB

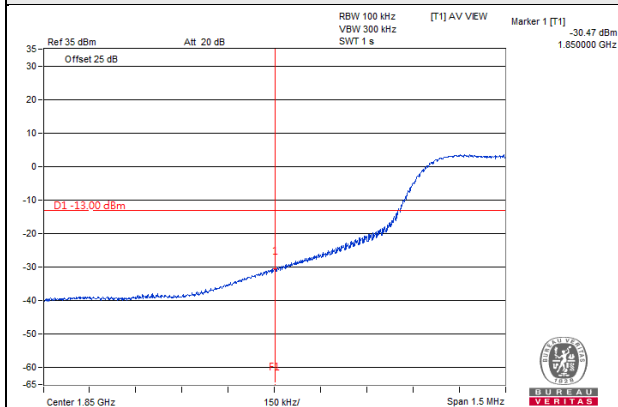


Channel 19150

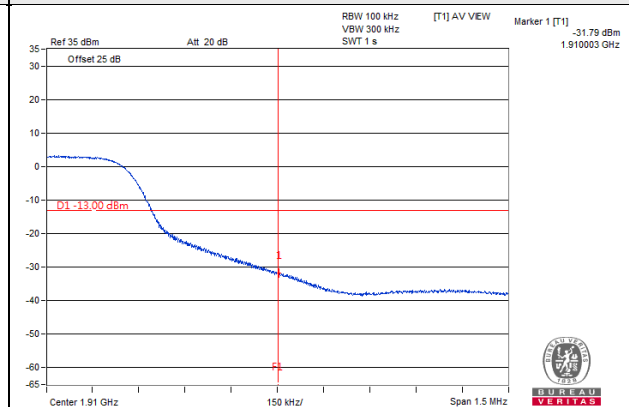
1 RB



50 RB



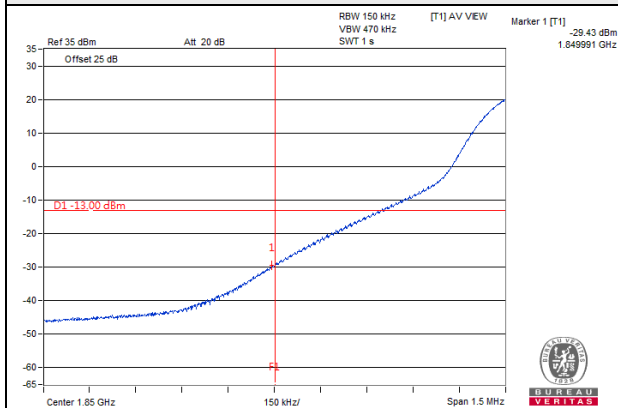
50 RB



LTE Band 2 Channel Band width: 15MHz

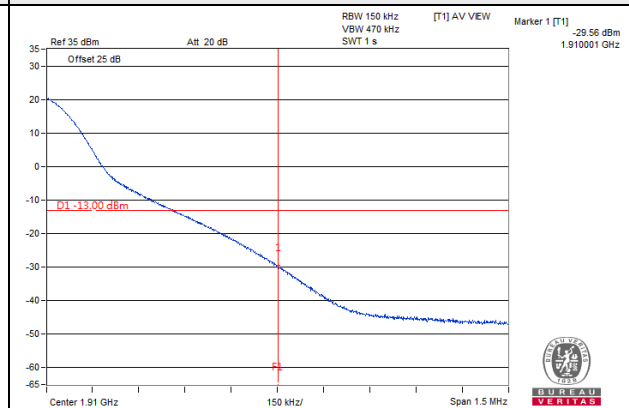
Channel 18675

1 RB

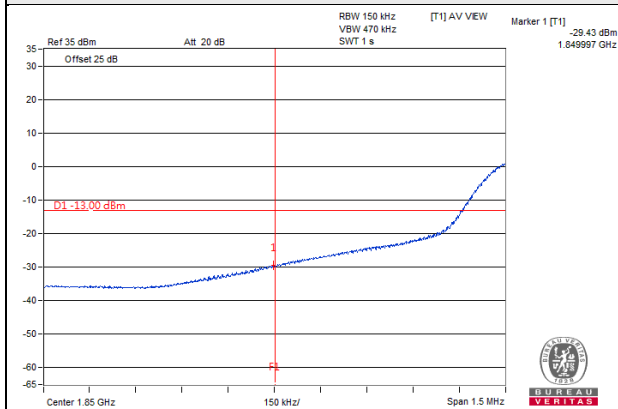


Channel 19125

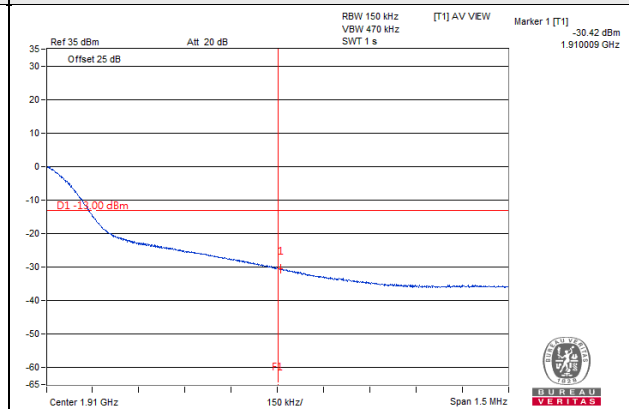
1 RB



75 RB



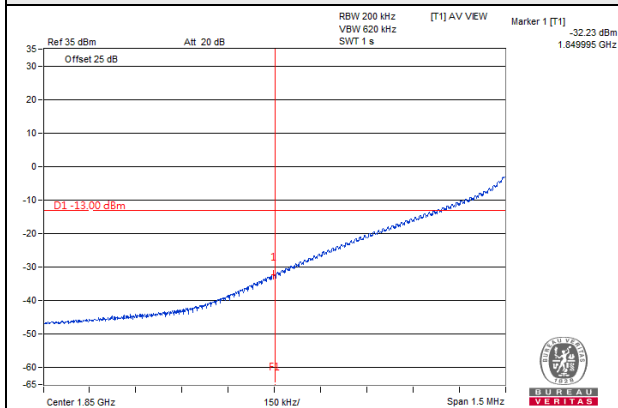
75 RB



LTE Band 2 Channel Band width: 20MHz

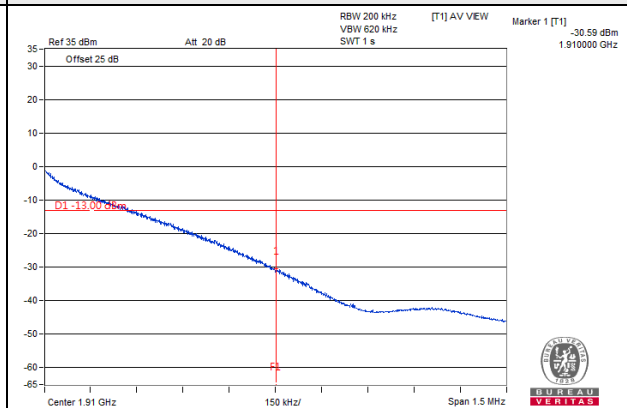
Channel 18700

1 RB

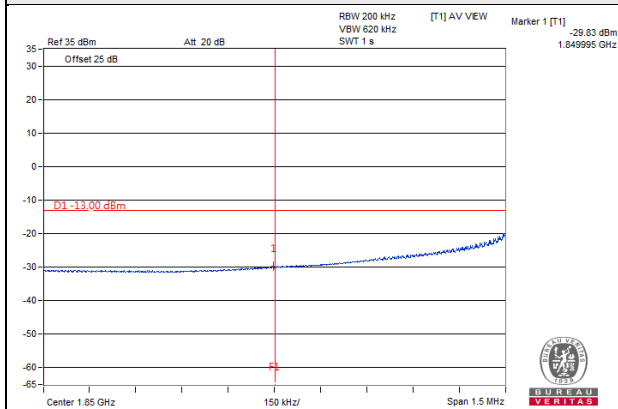


Channel 19100

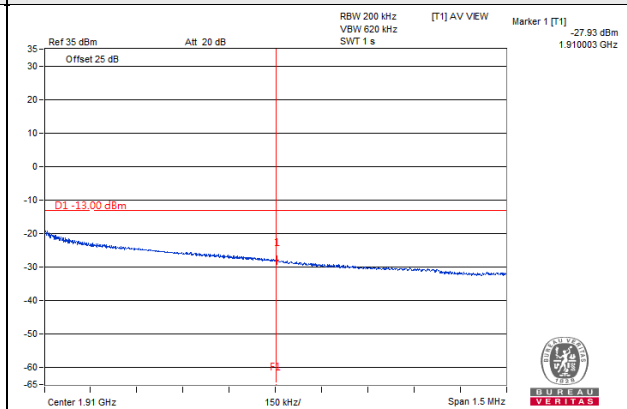
1 RB



100 RB



100 RB

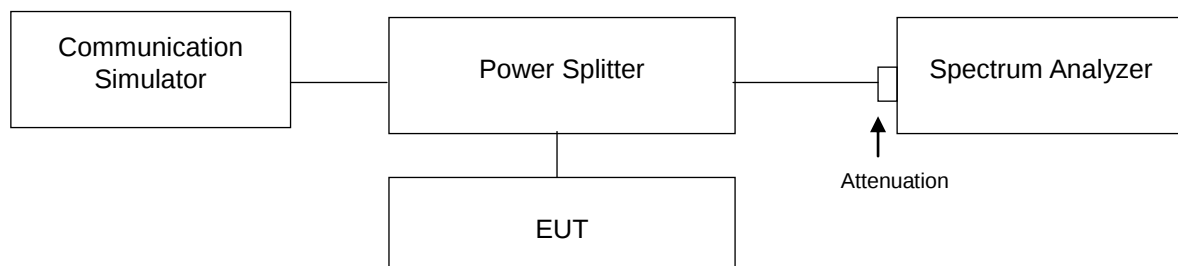


4.6 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

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

4.5.2 Test Setup

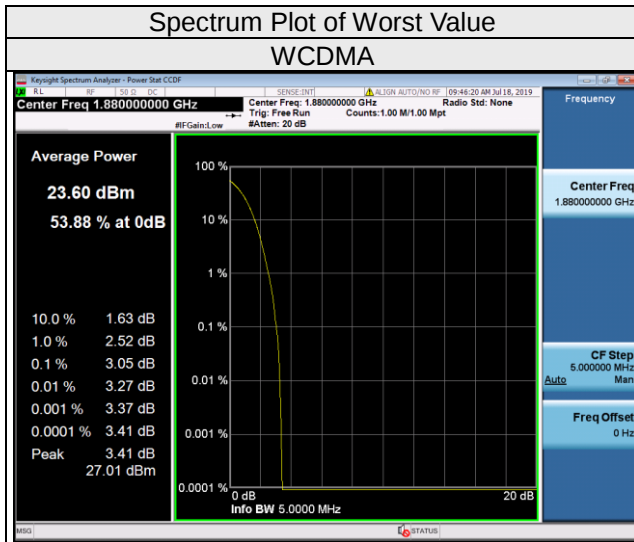


4.5.3 Test Procedures

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

4.5.4 Test Results

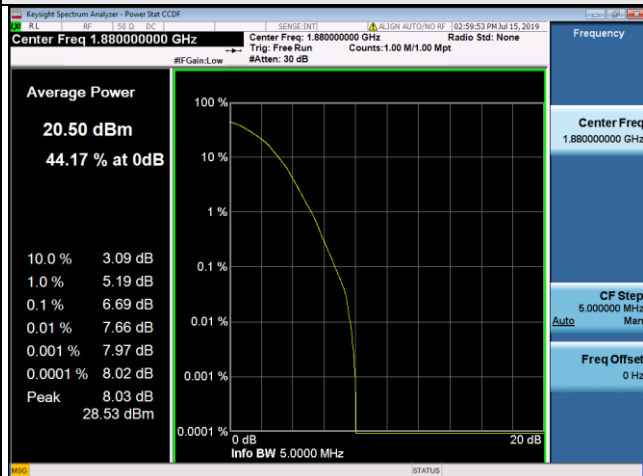
Channel	Freq. (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	3.04
9400	1880	3.05
9538	1907.6	3.00



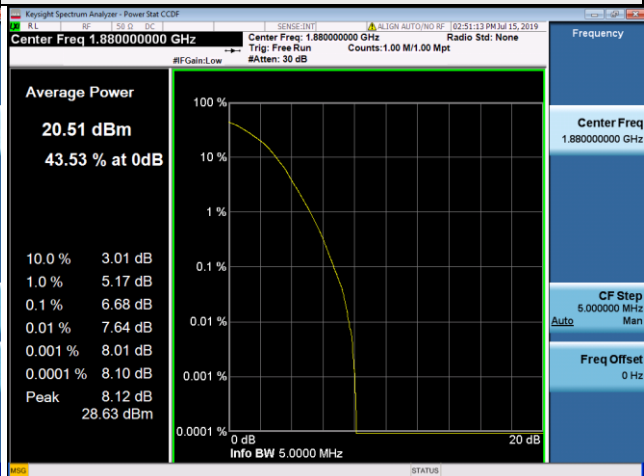
LTE Band 2									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18607	1850.7	4.36	5.30	6.10	18615	1851.5	4.37	5.40	6.24
18900	1880	4.93	6.19	6.69	18900	1880	4.64	6.08	6.68
19193	1909.3	4.77	5.79	6.57	19185	1907.5	4.59	5.95	6.60
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18625	1852.5	4.56	5.63	6.37	18650	1855	4.59	5.62	6.36
18900	1880	4.85	6.08	6.65	18900	1880	4.78	6.03	6.62
19175	1907.5	4.81	6.02	6.62	19150	1905	4.70	5.96	6.59
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
18675	1857.5	4.78	5.76	6.37	18700	1860	4.52	5.53	6.27
18900	1880	4.82	5.94	6.58	18900	1880	4.53	5.79	6.47
19125	1902.5	4.84	5.97	6.58	19100	1900	4.62	5.89	6.50

Spectrum Plot of Worst Value

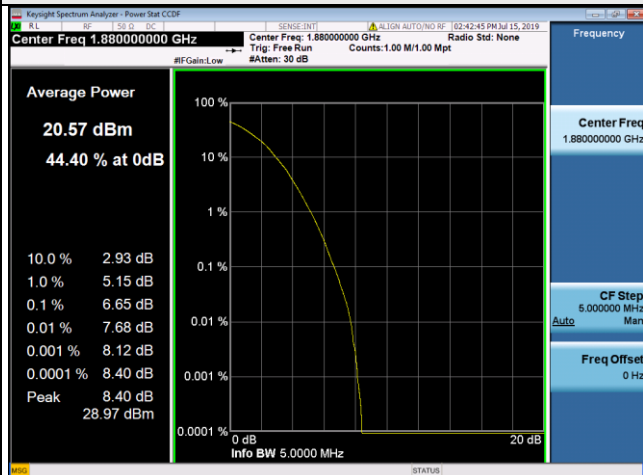
1.4MHz / 64QAM



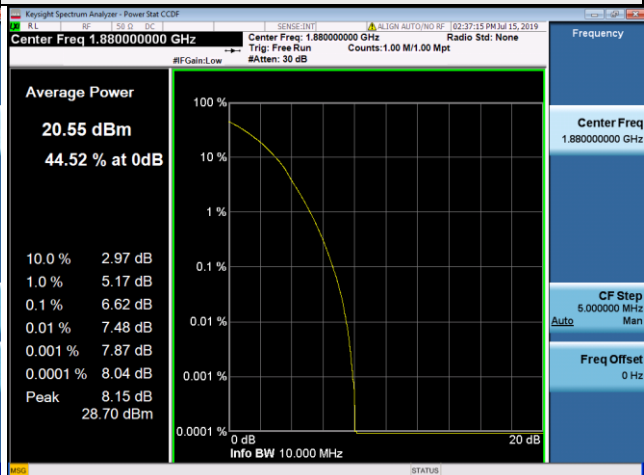
3MHz / 64QAM



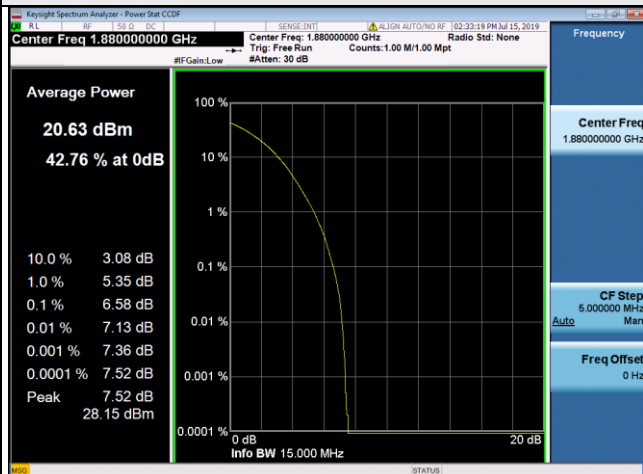
5MHz / 64QAM



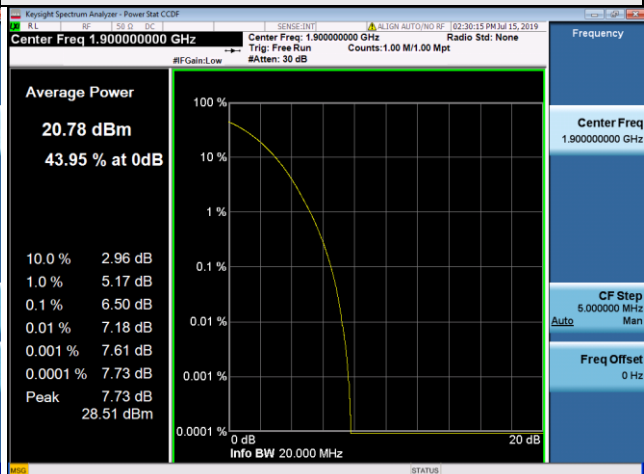
10MHz / 64QAM



15MHz / 64QAM



20MHz / 64QAM

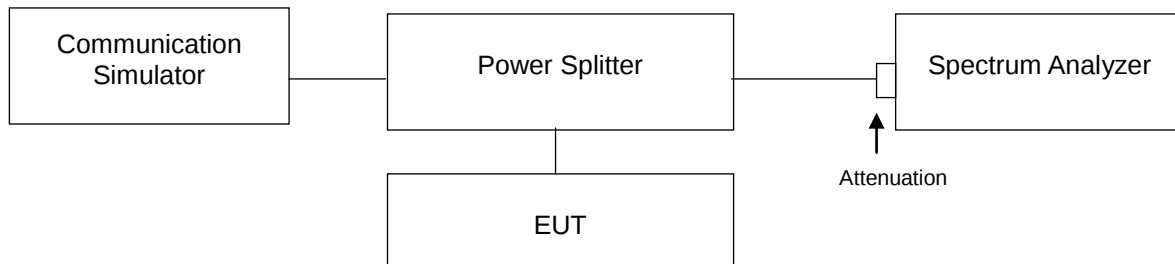


4.7 Conducted Spurious Emissions

4.7.1 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 .

4.7.2 Test Setup



4.7.3 Test Procedure

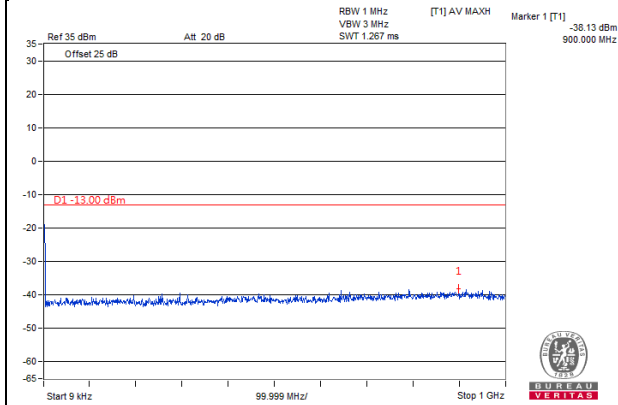
- All measurements were done at middle operational frequency range.
- Measuring frequency range is from 9 kHz to the tenth harmonic of the highest fundamental frequency, it shall be connected to the pad attenuated the carried frequency.
RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.7.4 Test Results

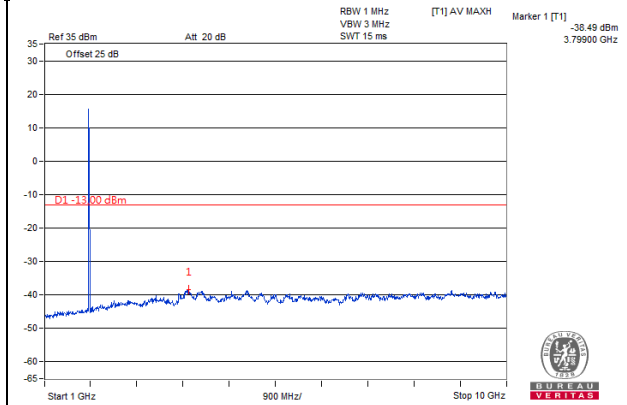
LTE Band 2 Channel Band width: 1.4MHz

Channel 18607

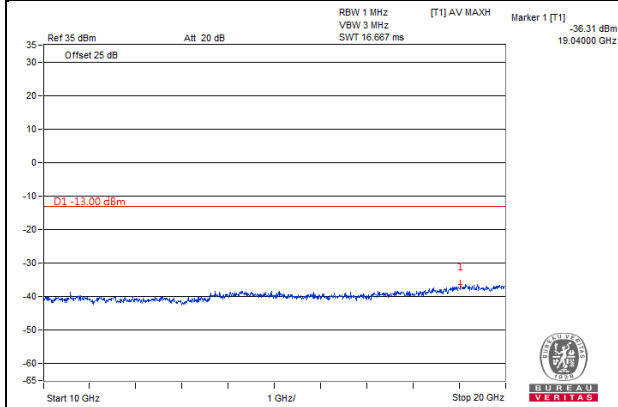
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



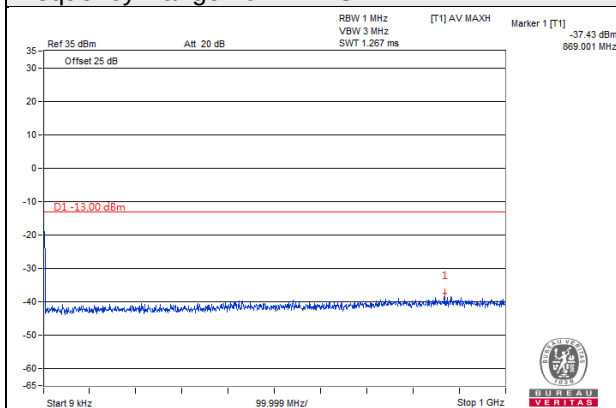
Frequency Range : 10GHz~20GHz



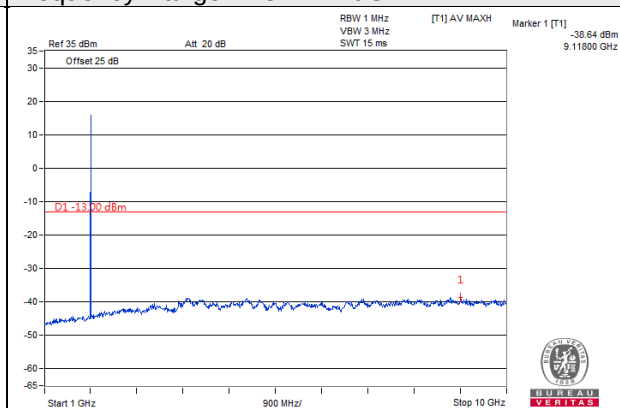
LTE Band 2 Channel Band width: 1.4MHz

Channel 18900

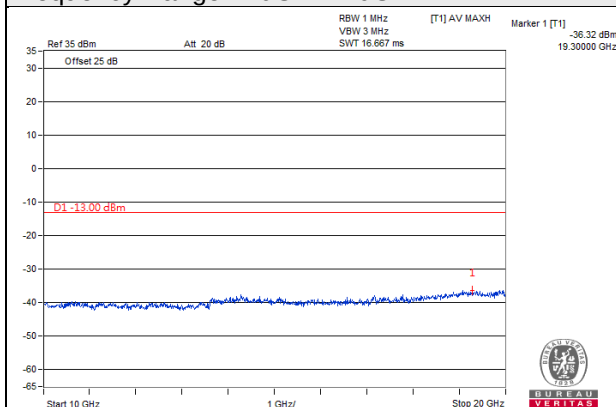
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



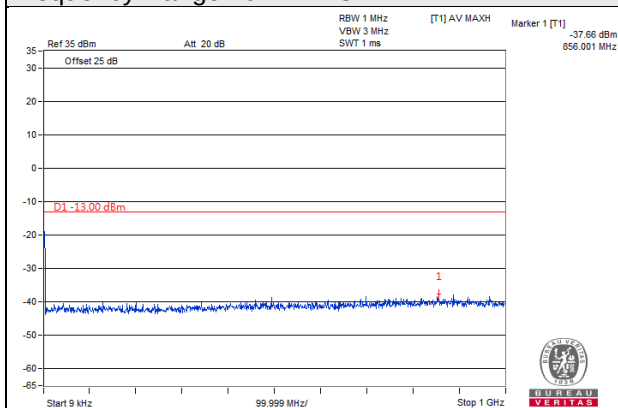
Frequency Range : 10GHz~20GHz



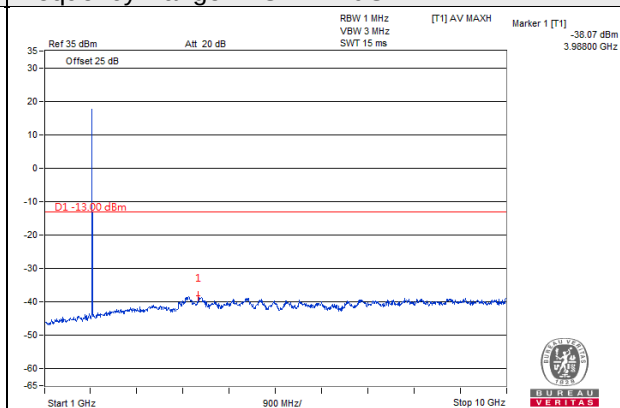
LTE Band 2 Channel Band width: 1.4MHz

Channel 19193

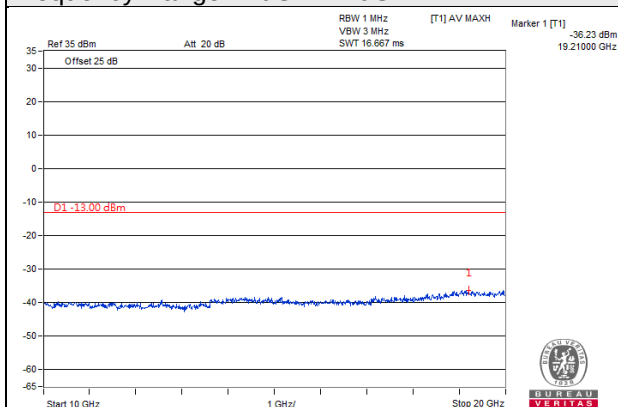
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



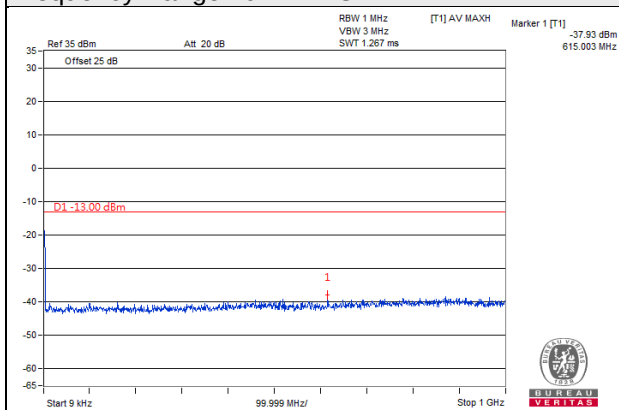
Frequency Range : 10GHz~20GHz



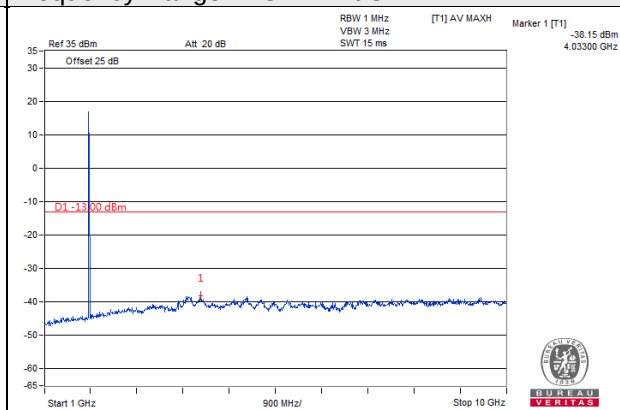
LTE Band 2 Channel Band width: 3MHz

Channel 18615

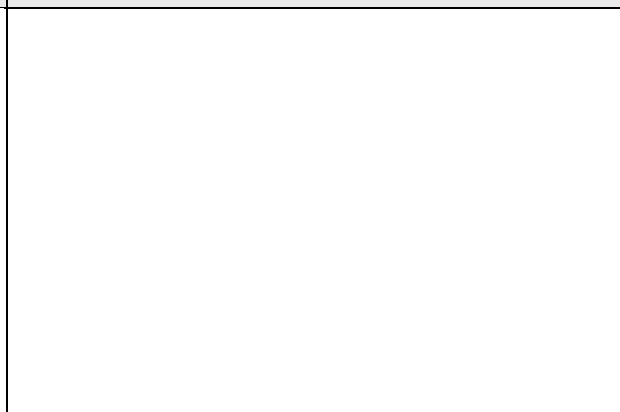
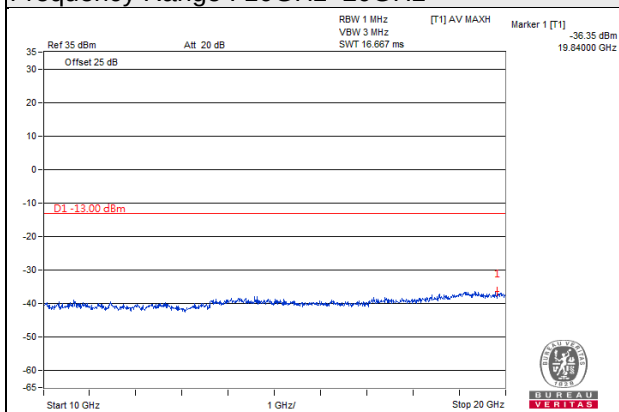
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



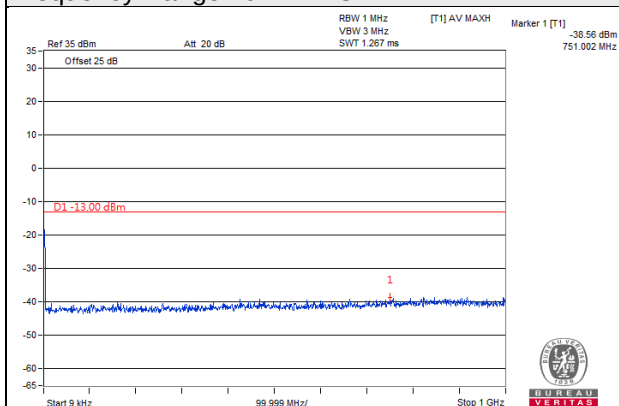
Frequency Range : 10GHz~20GHz



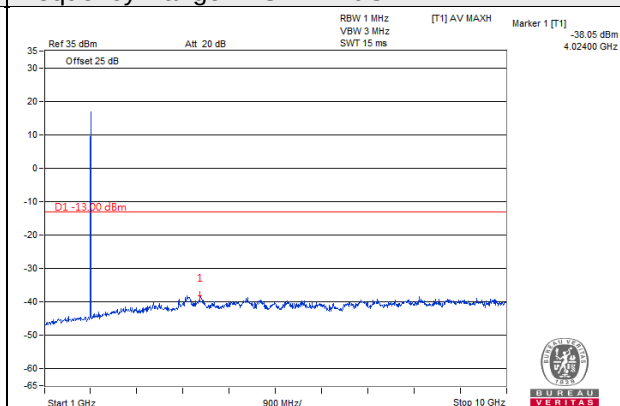
LTE Band 2 Channel Band width: 3MHz

Channel 18900

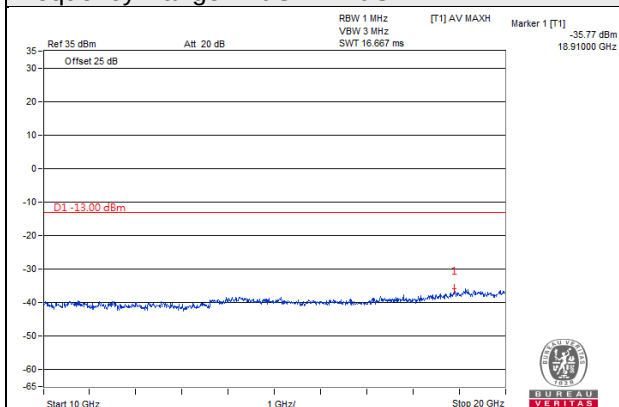
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



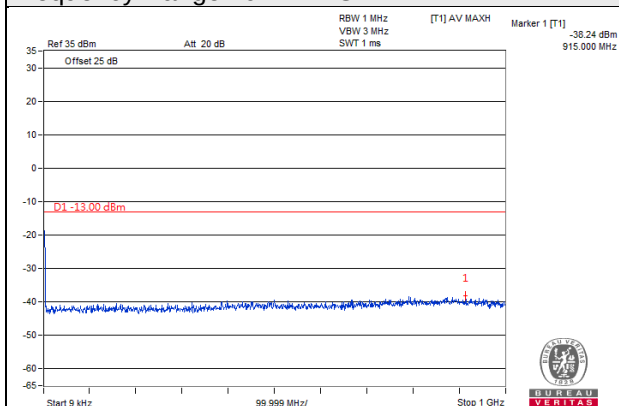
Frequency Range : 10GHz~20GHz



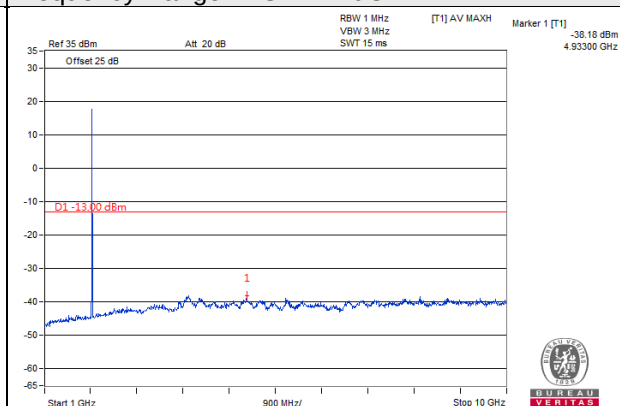
LTE Band 2 Channel Band width: 3MHz

Channel 19185

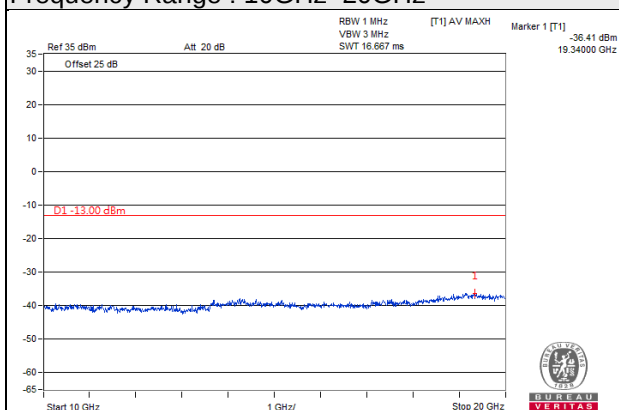
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



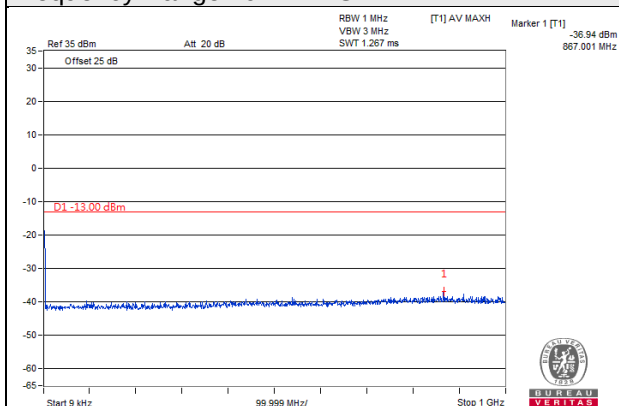
Frequency Range : 10GHz~20GHz



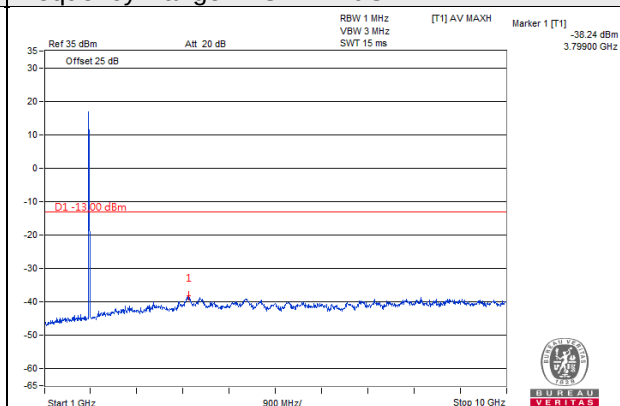
LTE Band 2 Channel Band width: 5MHz

Channel 18625

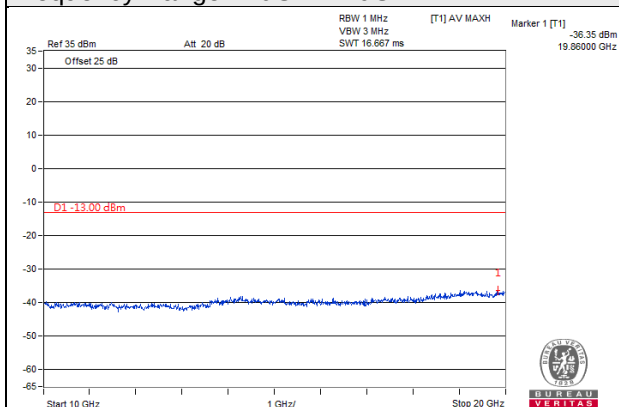
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



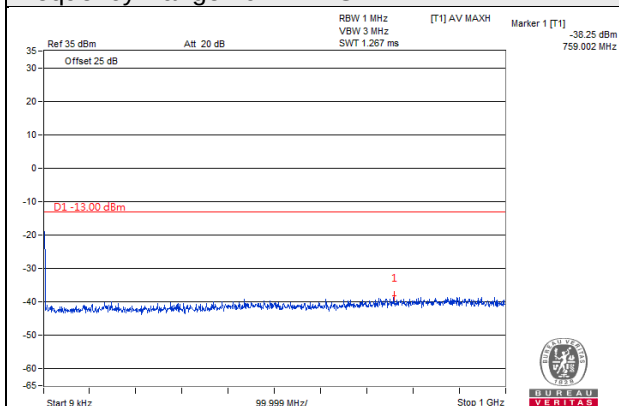
Frequency Range : 10GHz~20GHz



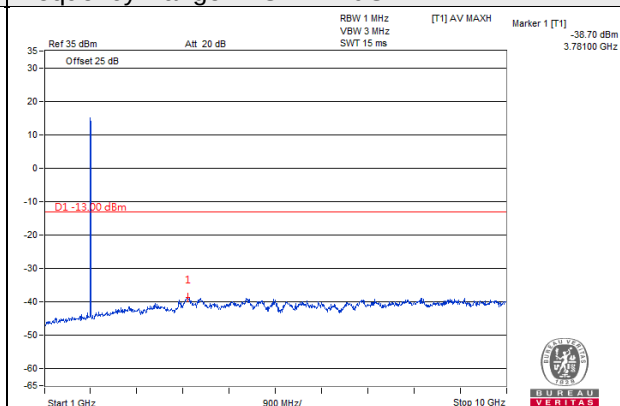
LTE Band 2 Channel Band width: 5MHz

Channel 18900

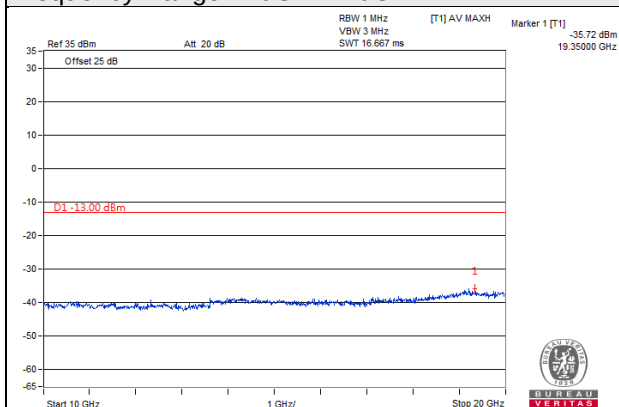
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



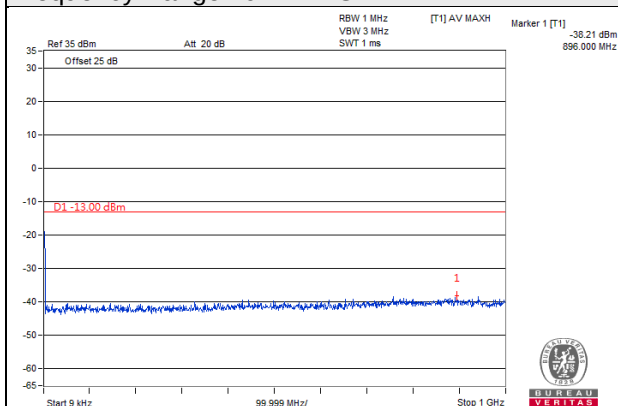
Frequency Range : 10GHz~20GHz



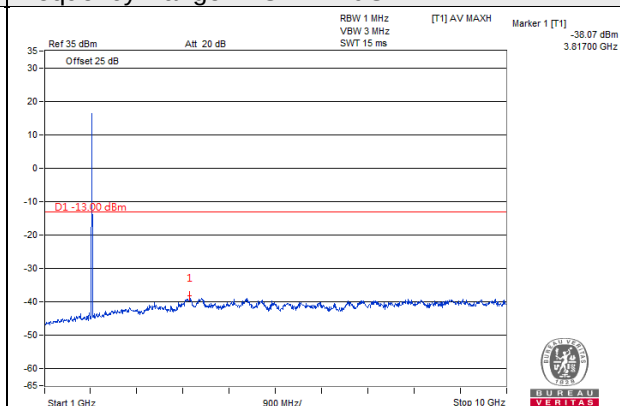
LTE Band 2 Channel Band width: 5MHz

Channel 19175

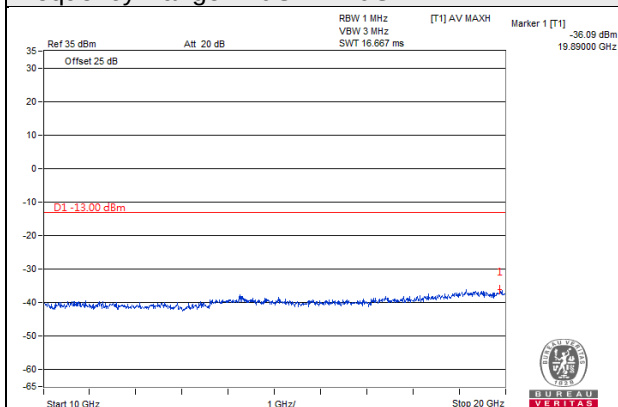
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



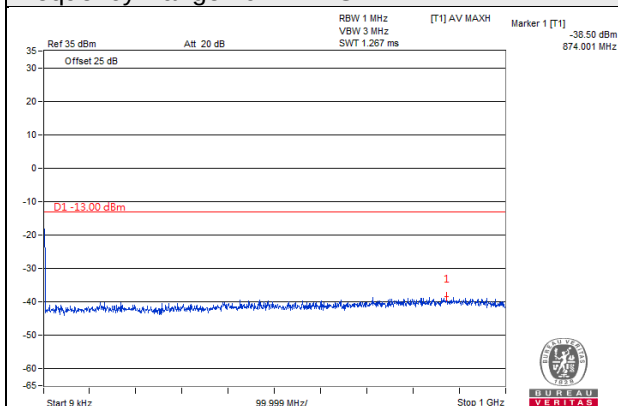
Frequency Range : 10GHz~20GHz



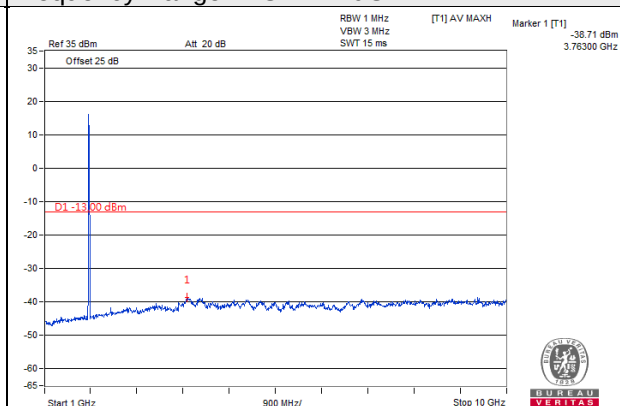
LTE Band 2 Channel Band width: 10MHz

Channel 18650

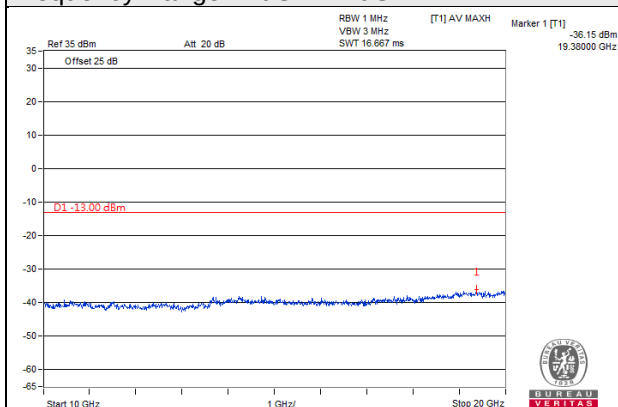
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



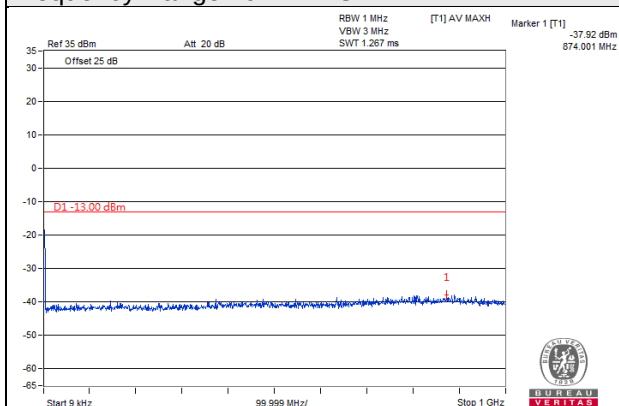
Frequency Range : 10GHz~20GHz



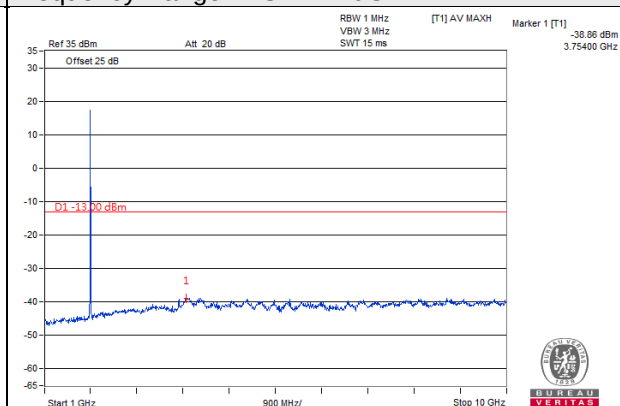
LTE Band 2 Channel Band width: 10MHz

Channel 18900

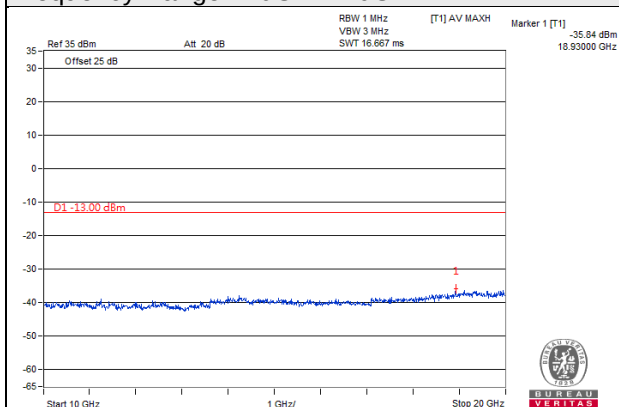
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



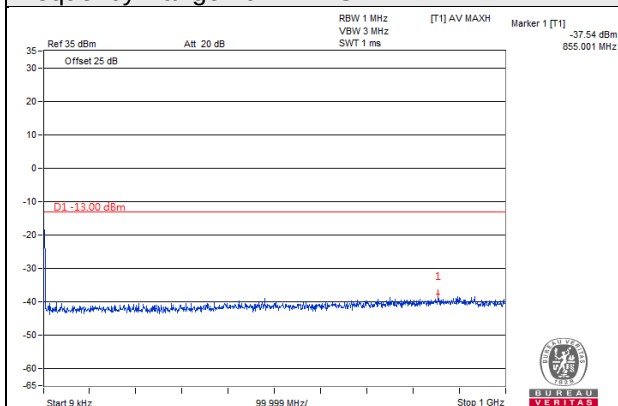
Frequency Range : 10GHz~20GHz



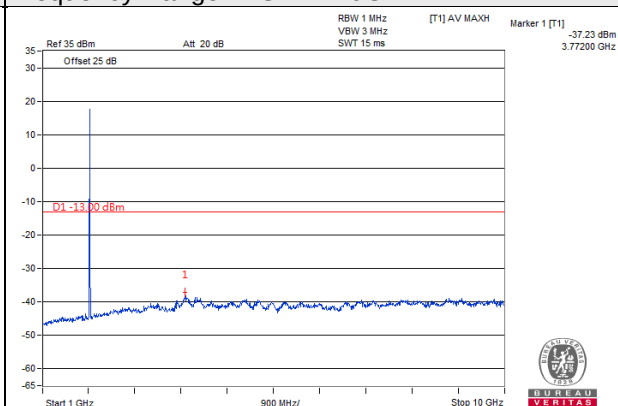
LTE Band 2 Channel Band width: 10MHz

Channel 19150

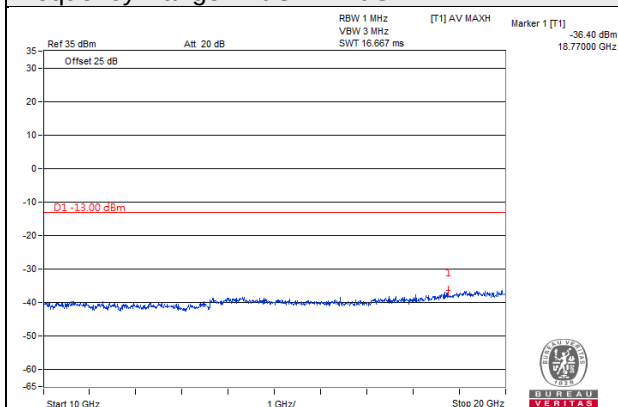
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



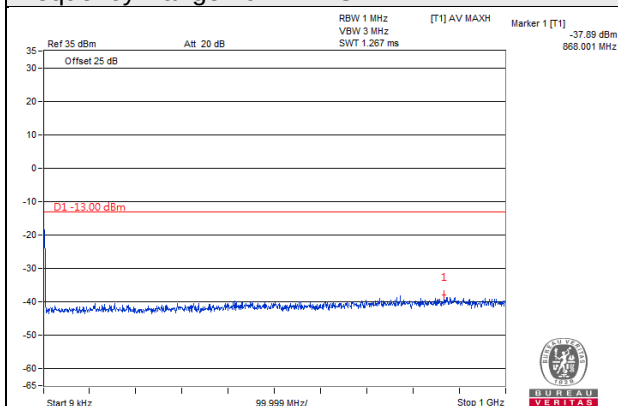
Frequency Range : 10GHz~20GHz



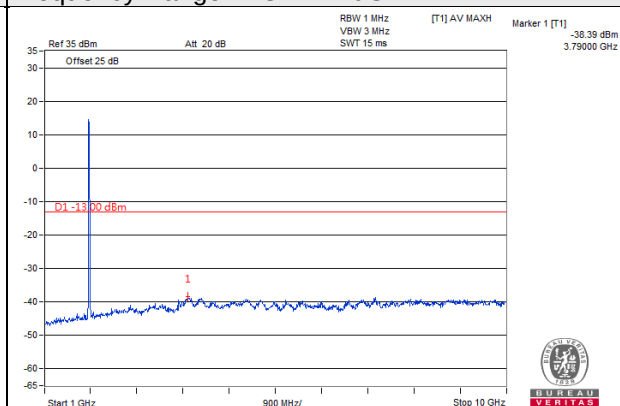
LTE Band 2 Channel Band width: 15MHz

Channel 18675

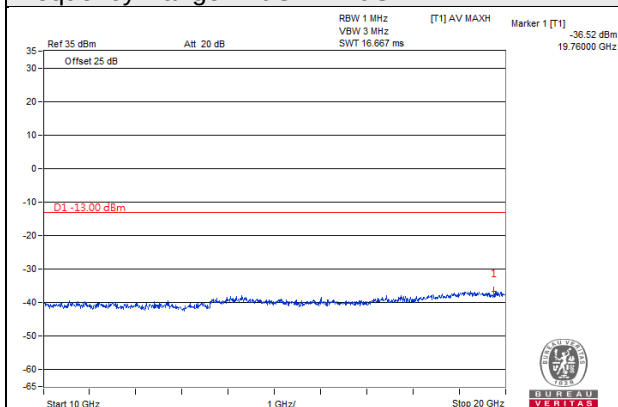
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



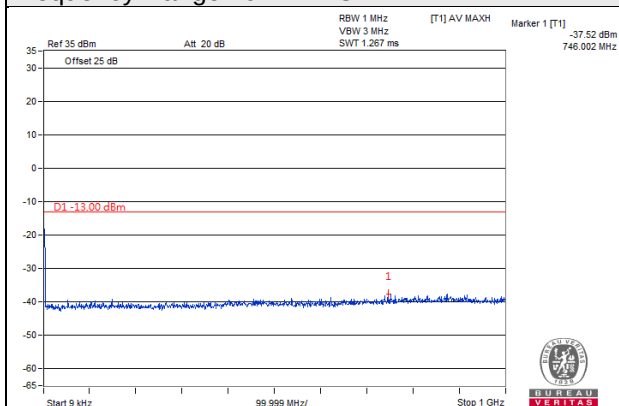
Frequency Range : 10GHz~20GHz



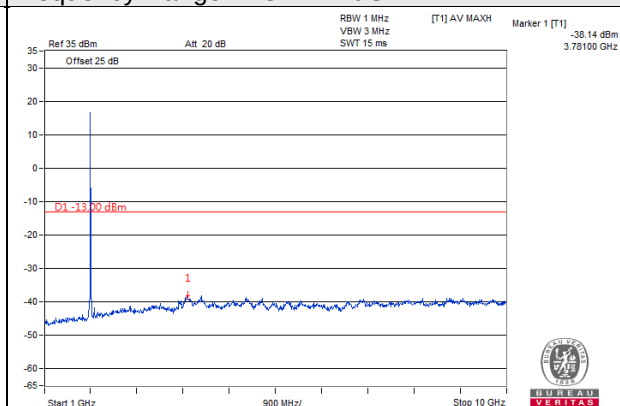
LTE Band 2 Channel Band width: 15MHz

Channel 18900

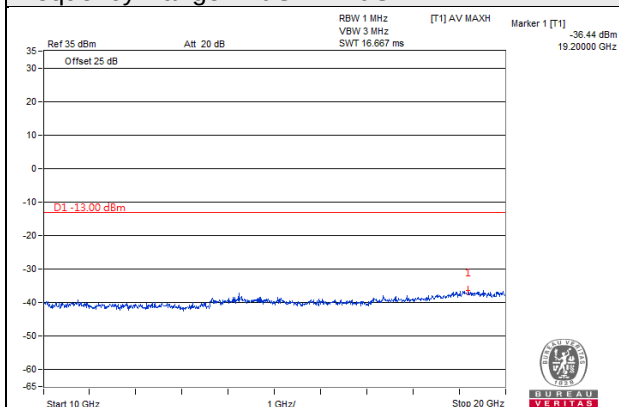
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



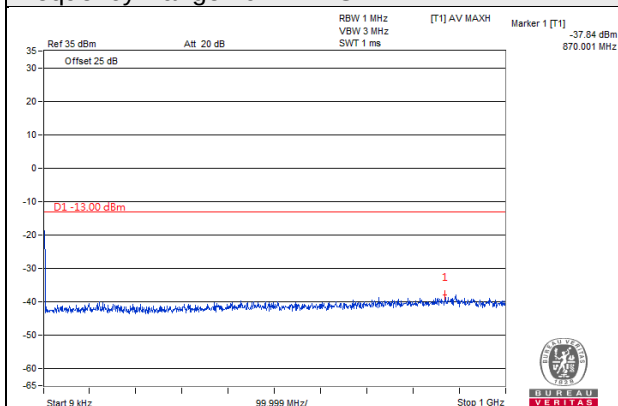
Frequency Range : 10GHz~20GHz



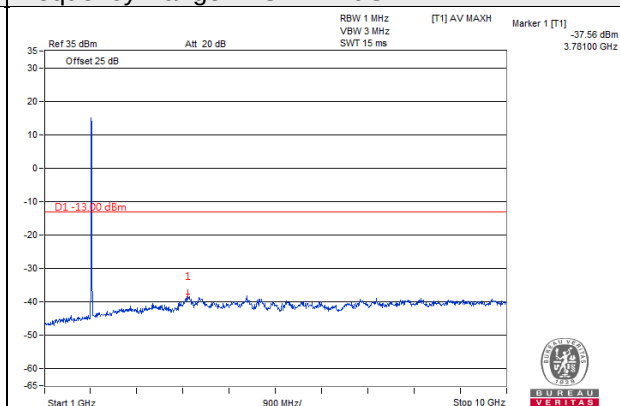
LTE Band 2 Channel Band width: 15MHz

Channel 19125

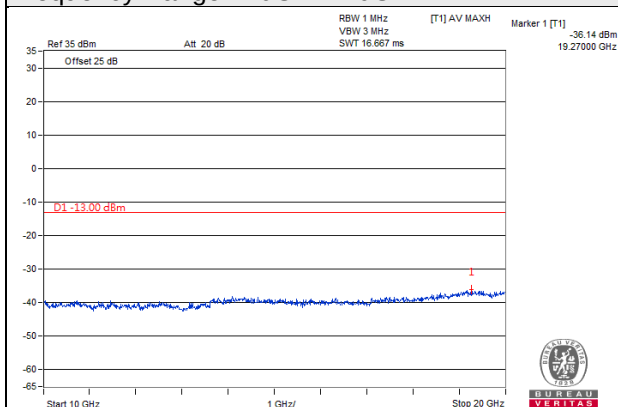
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



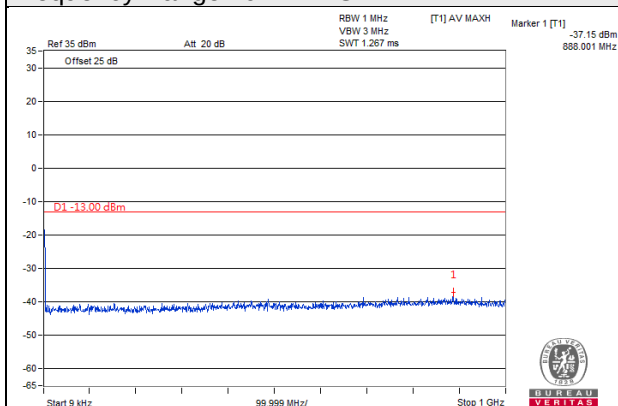
Frequency Range : 10GHz~20GHz



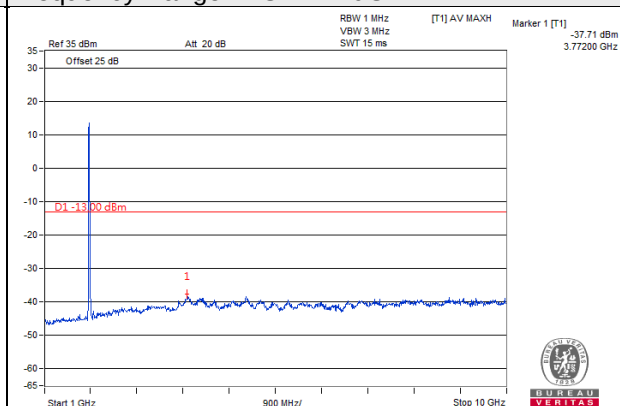
LTE Band 2 Channel Band width: 20MHz

Channel 18700

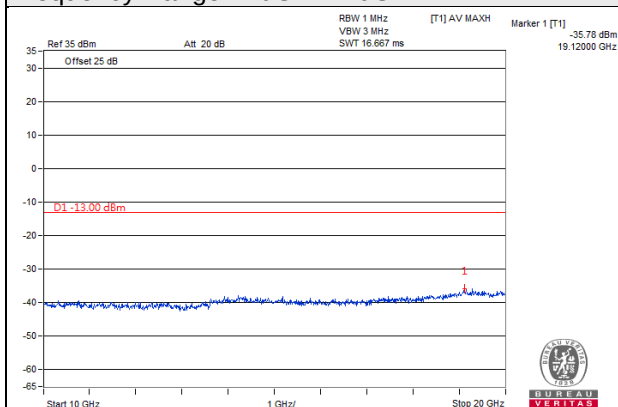
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



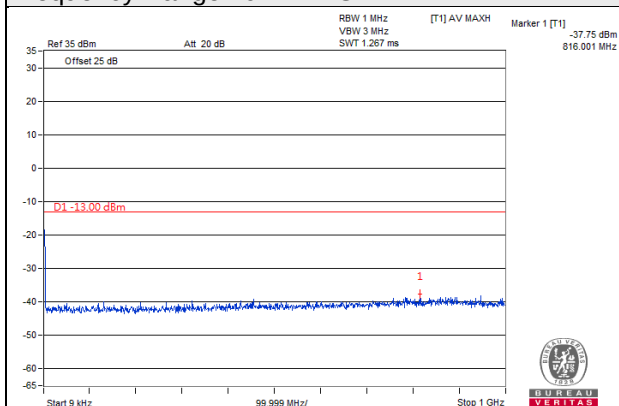
Frequency Range : 10GHz~20GHz



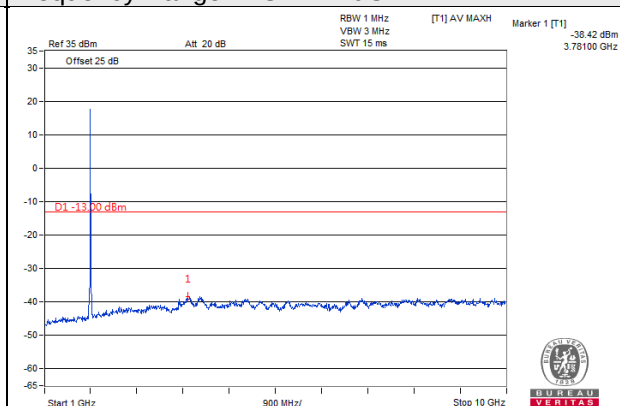
LTE Band 2 Channel Band width: 20MHz

Channel 18900

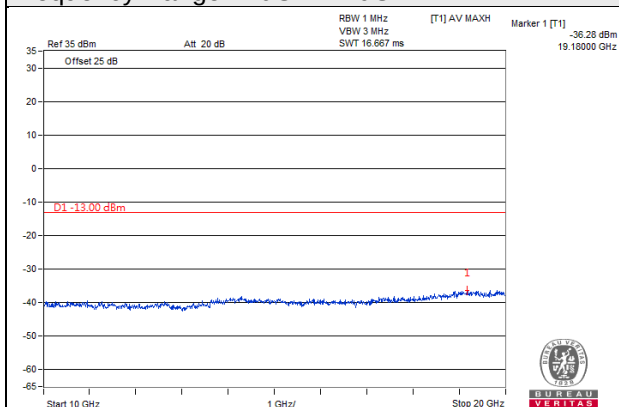
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



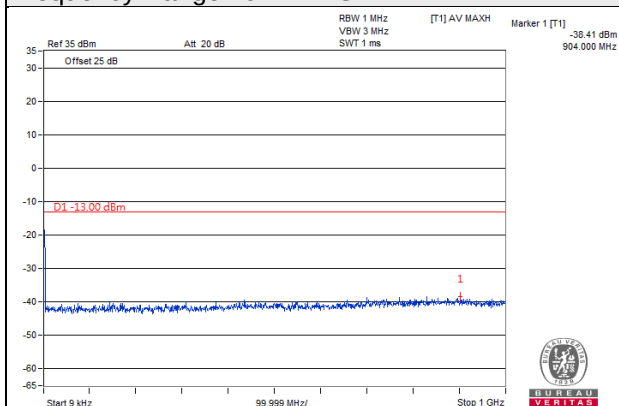
Frequency Range : 10GHz~20GHz



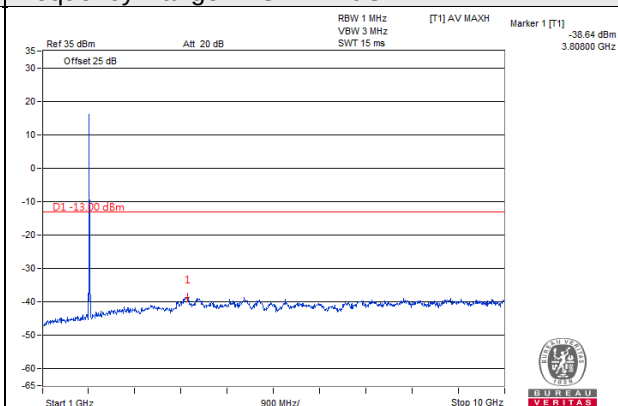
LTE Band 2 Channel Band width: 20MHz

Channel 19100

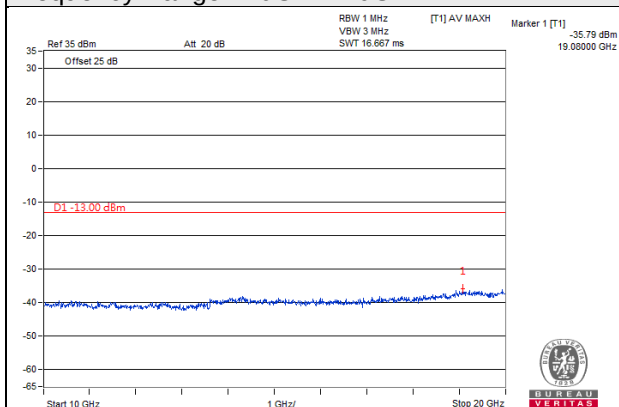
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz



4.8 Radiated Emission Measurement

4.8.1 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 .

4.8.2 Test Procedure

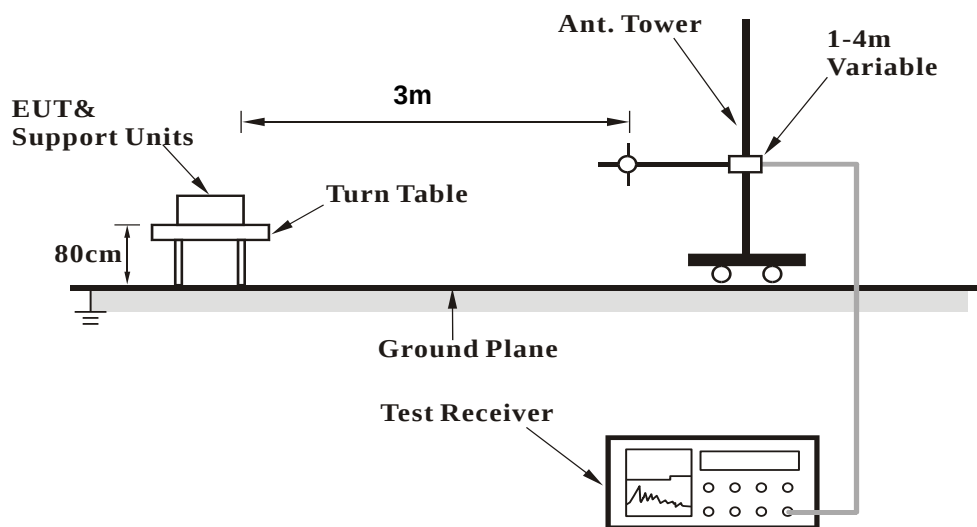
- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical 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. Follow ANSI 63.26 section 5.2.7 d), $\text{EIRP Value (dBm)} = \text{Read Value (dB}\mu\text{V/m)} - \text{Correction Factor @ 3m}$
- d. $\text{Correction Factor (dB) @ 3m} = 20\log(D) - 104.8$; where D is the measurement distance @3m $= -95.26\text{dB}$
- e. ERP power can be calculated from EIRP power by subtracting the gain of dipole, $\text{ERP power} = \text{EIRP power} - 2.15\text{dBi}$.

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

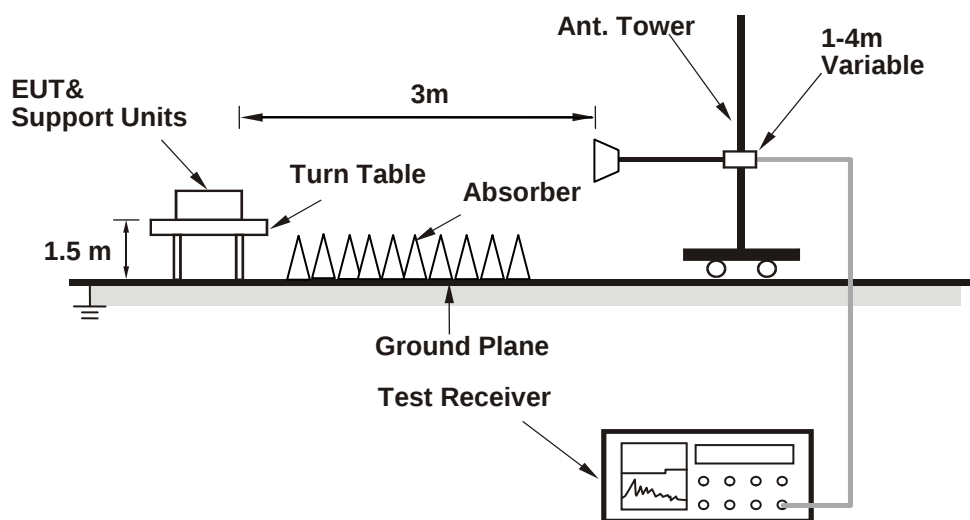
4.8.3 Deviation from Test Standard

No deviation.

4.8.4 Test Setup For Below 1GHz



For Above 1GHz:



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

4.8.5 Test Results

BELOW 1GHz

WCDMA B2:

Mode	TX channel 9262	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	38.82	35.22	-95.26	-60.04	-13	-47.04
2	123.59	36.79	-95.26	-58.47	-13	-45.47
3	178.64	28.13	-95.26	-67.13	-13	-54.13
4	220.74	34.41	-95.26	-60.85	-13	-47.85
5	344.81	31.59	-95.26	-63.67	-13	-50.67
6	512.73	30.82	-95.26	-64.44	-13	-51.44
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.85	35.66	-95.26	-59.60	-13	-46.60
2	137.05	35.72	-95.26	-59.54	-13	-46.54
3	212.53	30.45	-95.26	-64.81	-13	-51.81
4	310.28	25.63	-95.26	-69.63	-13	-56.63
5	488.67	34.52	-95.26	-60.74	-13	-47.74
6	614.62	32	-95.26	-63.26	-13	-50.26

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 9400	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	39.82	35.22	-95.26	-60.04	-13	-47.04
2	122.79	36.1	-95.26	-59.16	-13	-46.16
3	177.08	27.59	-95.26	-67.67	-13	-54.67
4	221.06	34.46	-95.26	-60.80	-13	-47.80
5	345.67	30.7	-95.26	-64.56	-13	-51.56
6	512.77	31.27	-95.26	-63.99	-13	-50.99

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.53	34.03	-95.26	-61.23	-13	-48.23
2	137.65	35.89	-95.26	-59.37	-13	-46.37
3	212.07	32.16	-95.26	-63.10	-13	-50.10
4	312.09	25.88	-95.26	-69.38	-13	-56.38
5	488.77	33.84	-95.26	-61.42	-13	-48.42
6	615.56	32.51	-95.26	-62.75	-13	-49.75

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 9538	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.71	35.54	-95.26	-59.72	-13	-46.72
2	124.37	36.56	-95.26	-58.70	-13	-45.70
3	178.37	28.07	-95.26	-67.19	-13	-54.19
4	222.45	34.47	-95.26	-60.79	-13	-47.79
5	344.27	31.06	-95.26	-64.20	-13	-51.20
6	512.67	30.78	-95.26	-64.48	-13	-51.48
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.64	35.14	-95.26	-60.12	-13	-47.12
2	138.46	36.81	-95.26	-58.45	-13	-45.45
3	211.42	31.9	-95.26	-63.36	-13	-50.36
4	311.92	25.46	-95.26	-69.80	-13	-56.80
5	489.36	32.98	-95.26	-62.28	-13	-49.28
6	614.6	32.14	-95.26	-63.12	-13	-50.12

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

LTE Band 2: 1.4 MHz

Mode	TX channel 18607	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.54	33.68	-95.26	-61.58	-13	-48.58
2	100.98	34.18	-95.26	-61.08	-13	-48.08
3	157.05	26.88	-95.26	-68.38	-13	-55.38
4	187.97	32.62	-95.26	-62.64	-13	-49.64
5	314.32	32.19	-95.26	-63.07	-13	-50.07
6	440.02	28.91	-95.26	-66.35	-13	-53.35
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.62	34.11	-95.26	-61.15	-13	-48.15
2	93.27	36.11	-95.26	-59.15	-13	-46.15
3	134.21	31.47	-95.26	-63.79	-13	-50.79
4	178.32	26.08	-95.26	-69.18	-13	-56.18
5	326.01	32.71	-95.26	-62.55	-13	-49.55
6	553.98	32.37	-95.26	-62.89	-13	-49.89

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.2	34.59	-95.26	-60.67	-13	-47.67
2	102.59	35.17	-95.26	-60.09	-13	-47.09
3	156.56	26.9	-95.26	-68.36	-13	-55.36
4	188.64	34.06	-95.26	-61.20	-13	-48.20
5	313.2	31.05	-95.26	-64.21	-13	-51.21
6	440.08	30.13	-95.26	-65.13	-13	-52.13
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.95	34.72	-95.26	-60.54	-13	-47.54
2	92.73	36.01	-95.26	-59.25	-13	-46.25
3	134.24	29.98	-95.26	-65.28	-13	-52.28
4	178.19	25.18	-95.26	-70.08	-13	-57.08
5	325.71	33.8	-95.26	-61.46	-13	-48.46
6	552.23	31.79	-95.26	-63.47	-13	-50.47

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 19193	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.31	34.76	-95.26	-60.50	-13	-47.50
2	101.87	35.56	-95.26	-59.70	-13	-46.70
3	156.2	27.4	-95.26	-67.86	-13	-54.86
4	187.17	32.98	-95.26	-62.28	-13	-49.28
5	314.15	31.58	-95.26	-63.68	-13	-50.68
6	440.27	29.44	-95.26	-65.82	-13	-52.82

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.38	35.02	-95.26	-60.24	-13	-47.24
2	91.57	36.12	-95.26	-59.14	-13	-46.14
3	134.91	29.89	-95.26	-65.37	-13	-52.37
4	178.78	26.2	-95.26	-69.06	-13	-56.06
5	326.02	33.07	-95.26	-62.19	-13	-49.19
6	553.09	32.91	-95.26	-62.35	-13	-49.35

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 3 MHz

Mode	TX channel 18615	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.33	33.55	-95.26	-61.71	-13	-48.71
2	100.95	34.2	-95.26	-61.06	-13	-48.06
3	157.25	27.05	-95.26	-68.21	-13	-55.21
4	188.7	33.2	-95.26	-62.06	-13	-49.06
5	313.45	30.44	-95.26	-64.82	-13	-51.82
6	439.19	29.29	-95.26	-65.97	-13	-52.97
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.77	35.19	-95.26	-60.07	-13	-47.07
2	92.39	34.57	-95.26	-60.69	-13	-47.69
3	135.64	31.17	-95.26	-64.09	-13	-51.09
4	178.29	24.75	-95.26	-70.51	-13	-57.51
5	325.57	33.4	-95.26	-61.86	-13	-48.86
6	552.42	31.57	-95.26	-63.69	-13	-50.69

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.95	33.97	-95.26	-61.29	-13	-48.29
2	101.44	35.36	-95.26	-59.90	-13	-46.90
3	156.06	26.98	-95.26	-68.28	-13	-55.28
4	188.15	32.56	-95.26	-62.70	-13	-49.70
5	314.95	31.22	-95.26	-64.04	-13	-51.04
6	438.85	29.28	-95.26	-65.98	-13	-52.98

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.19	35.01	-95.26	-60.25	-13	-47.25
2	92.59	36.22	-95.26	-59.04	-13	-46.04
3	134.18	30.31	-95.26	-64.95	-13	-51.95
4	178.69	26.03	-95.26	-69.23	-13	-56.23
5	324.14	33.64	-95.26	-61.62	-13	-48.62
6	553.44	31.4	-95.26	-63.86	-13	-50.86

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 19185	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.83	34.82	-95.26	-60.44	-13	-47.44
2	101.92	35.86	-95.26	-59.40	-13	-46.40
3	156.89	26.46	-95.26	-68.80	-13	-55.80
4	187.22	33.7	-95.26	-61.56	-13	-48.56
5	313.14	31.1	-95.26	-64.16	-13	-51.16
6	438.41	30.49	-95.26	-64.77	-13	-51.77

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.96	34.74	-95.26	-60.52	-13	-47.52
2	91.69	35.47	-95.26	-59.79	-13	-46.79
3	134.92	30.82	-95.26	-64.44	-13	-51.44
4	178.77	25.2	-95.26	-70.06	-13	-57.06
5	325.36	33.82	-95.26	-61.44	-13	-48.44
6	553.26	32.72	-95.26	-62.54	-13	-49.54

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 5 MHz

Mode	TX channel 18625	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.81	34.57	-95.26	-60.69	-13	-47.69
2	100.7	34.07	-95.26	-61.19	-13	-48.19
3	156.65	28.21	-95.26	-67.05	-13	-54.05
4	188.66	33.06	-95.26	-62.20	-13	-49.20
5	314.47	31.18	-95.26	-64.08	-13	-51.08
6	439.12	29.54	-95.26	-65.72	-13	-52.72
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.04	34.07	-95.26	-61.19	-13	-48.19
2	92.8	34.85	-95.26	-60.41	-13	-47.41
3	134.83	31.4	-95.26	-63.86	-13	-50.86
4	179.16	24.67	-95.26	-70.59	-13	-57.59
5	324.55	32.67	-95.26	-62.59	-13	-49.59
6	553.32	31.11	-95.26	-64.15	-13	-51.15

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42	34.87	-95.26	-60.39	-13	-47.39
2	102.32	34.44	-95.26	-60.82	-13	-47.82
3	156.35	27.93	-95.26	-67.33	-13	-54.33
4	188.94	33.92	-95.26	-61.34	-13	-48.34
5	314.42	31.11	-95.26	-64.15	-13	-51.15
6	438.7	29.19	-95.26	-66.07	-13	-53.07

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.25	35.34	-95.26	-59.92	-13	-46.92
2	92.3	35.24	-95.26	-60.02	-13	-47.02
3	135.04	31.25	-95.26	-64.01	-13	-51.01
4	177.94	25.32	-95.26	-69.94	-13	-56.94
5	326.06	32.33	-95.26	-62.93	-13	-49.93
6	553.71	32.49	-95.26	-62.77	-13	-49.77

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 19175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.39	34.13	-95.26	-61.13	-13	-48.13
2	101.54	35.38	-95.26	-59.88	-13	-46.88
3	156.06	27.64	-95.26	-67.62	-13	-54.62
4	188.69	32.71	-95.26	-62.55	-13	-49.55
5	313.47	31.65	-95.26	-63.61	-13	-50.61
6	439.19	29.78	-95.26	-65.48	-13	-52.48
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.72	35.03	-95.26	-60.23	-13	-47.23
2	92.68	35.82	-95.26	-59.44	-13	-46.44
3	135.29	31.36	-95.26	-63.90	-13	-50.90
4	177.69	25.37	-95.26	-69.89	-13	-56.89
5	325.89	33.79	-95.26	-61.47	-13	-48.47
6	553.79	32.4	-95.26	-62.86	-13	-49.86

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 10 MHz

Mode	TX channel 18650	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.41	34.36	-95.26	-60.90	-13	-47.90
2	100.67	34	-95.26	-61.26	-13	-48.26
3	157.5	27.22	-95.26	-68.04	-13	-55.04
4	188.24	32.98	-95.26	-62.28	-13	-49.28
5	314.19	31.26	-95.26	-64.00	-13	-51.00
6	440.04	29.86	-95.26	-65.40	-13	-52.40
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.27	35.45	-95.26	-59.81	-13	-46.81
2	91.57	35.69	-95.26	-59.57	-13	-46.57
3	134.78	31.24	-95.26	-64.02	-13	-51.02
4	178.01	25.74	-95.26	-69.52	-13	-56.52
5	325.8	34.05	-95.26	-61.21	-13	-48.21
6	552.32	32.74	-95.26	-62.52	-13	-49.52

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42.12	34.3	-95.26	-60.96	-13	-47.96
2	101.28	34.66	-95.26	-60.60	-13	-47.60
3	156.25	27.93	-95.26	-67.33	-13	-54.33
4	187.58	32.69	-95.26	-62.57	-13	-49.57
5	314.55	30.76	-95.26	-64.50	-13	-51.50
6	438.81	29.15	-95.26	-66.11	-13	-53.11
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.81	34.44	-95.26	-60.82	-13	-47.82
2	91.67	35.27	-95.26	-59.99	-13	-46.99
3	134.54	30.2	-95.26	-65.06	-13	-52.06
4	178.18	25.5	-95.26	-69.76	-13	-56.76
5	325.49	32.59	-95.26	-62.67	-13	-49.67
6	552.75	32.09	-95.26	-63.17	-13	-50.17

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 19150	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.09	34.16	-95.26	-61.10	-13	-48.10
2	102.41	35.07	-95.26	-60.19	-13	-47.19
3	155.69	27.96	-95.26	-67.30	-13	-54.30
4	187.68	33.14	-95.26	-62.12	-13	-49.12
5	314.18	31.15	-95.26	-64.11	-13	-51.11
6	438.86	30.25	-95.26	-65.01	-13	-52.01

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.41	35.01	-95.26	-60.25	-13	-47.25
2	92.47	34.54	-95.26	-60.72	-13	-47.72
3	134.87	30.32	-95.26	-64.94	-13	-51.94
4	179.21	24.54	-95.26	-70.72	-13	-57.72
5	324.91	32.29	-95.26	-62.97	-13	-49.97
6	552.96	32.16	-95.26	-63.10	-13	-50.10

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

LTE Band 2: 15 MHz

Mode	TX channel 18675	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.41	33.96	-95.26	-61.30	-13	-48.30
2	102.04	35.7	-95.26	-59.56	-13	-46.56
3	155.66	26.51	-95.26	-68.75	-13	-55.75
4	187.61	34.15	-95.26	-61.11	-13	-48.11
5	314.07	32.25	-95.26	-63.01	-13	-50.01
6	438.52	30.61	-95.26	-64.65	-13	-51.65
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.89	35.34	-95.26	-59.92	-13	-46.92
2	91.87	36.05	-95.26	-59.21	-13	-46.21
3	135.35	30.62	-95.26	-64.64	-13	-51.64
4	178.34	24.81	-95.26	-70.45	-13	-57.45
5	324.82	34.07	-95.26	-61.19	-13	-48.19
6	553.93	32.98	-95.26	-62.28	-13	-49.28

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42.14	33.7	-95.26	-61.56	-13	-48.56
2	101.82	34.15	-95.26	-61.11	-13	-48.11
3	156.17	26.94	-95.26	-68.32	-13	-55.32
4	187.79	32.62	-95.26	-62.64	-13	-49.64
5	314.3	30.48	-95.26	-64.78	-13	-51.78
6	438.64	30.28	-95.26	-64.98	-13	-51.98
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.62	35.02	-95.26	-60.24	-13	-47.24
2	92.8	35.75	-95.26	-59.51	-13	-46.51
3	134.71	30.43	-95.26	-64.83	-13	-51.83
4	178.55	24.77	-95.26	-70.49	-13	-57.49
5	325.88	33.66	-95.26	-61.60	-13	-48.60
6	552.65	31.94	-95.26	-63.32	-13	-50.32

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 19125	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.03	33.78	-95.26	-61.48	-13	-48.48
2	101.46	34.82	-95.26	-60.44	-13	-47.44
3	155.63	27.88	-95.26	-67.38	-13	-54.38
4	188.47	33.28	-95.26	-61.98	-13	-48.98
5	314.36	32	-95.26	-63.26	-13	-50.26
6	438.62	29.13	-95.26	-66.13	-13	-53.13

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.21	34.15	-95.26	-61.11	-13	-48.11
2	93.22	35.67	-95.26	-59.59	-13	-46.59
3	135.1	30.06	-95.26	-65.20	-13	-52.20
4	178.83	26.02	-95.26	-69.24	-13	-56.24
5	325.71	32.64	-95.26	-62.62	-13	-49.62
6	553.19	31.86	-95.26	-63.40	-13	-50.40

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 20 MHz

Mode	TX channel 18700	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.42	33.93	-95.26	-61.33	-13	-48.33
2	101.63	34.11	-95.26	-61.15	-13	-48.15
3	157.09	26.95	-95.26	-68.31	-13	-55.31
4	188.71	32.85	-95.26	-62.41	-13	-49.41
5	314.29	31.02	-95.26	-64.24	-13	-51.24
6	438.63	30.66	-95.26	-64.60	-13	-51.60
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	55.51	35.62	-95.26	-59.64	-13	-46.64
2	93.19	34.47	-95.26	-60.79	-13	-47.79
3	136.01	31.58	-95.26	-63.68	-13	-50.68
4	179.2	26.06	-95.26	-69.20	-13	-56.20
5	325.51	33.93	-95.26	-61.33	-13	-48.33
6	553.68	32.26	-95.26	-63.00	-13	-50.00

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	41.94	34.44	-95.26	-60.82	-13	-47.82
2	102.1	35.38	-95.26	-59.88	-13	-46.88
3	156.02	27.69	-95.26	-67.57	-13	-54.57
4	188.28	33.5	-95.26	-61.76	-13	-48.76
5	314.82	31.79	-95.26	-63.47	-13	-50.47
6	438.37	28.79	-95.26	-66.47	-13	-53.47
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	57.1	35.45	-95.26	-59.81	-13	-46.81
2	91.5	34.61	-95.26	-60.65	-13	-47.65
3	135.92	29.88	-95.26	-65.38	-13	-52.38
4	178.63	24.45	-95.26	-70.81	-13	-57.81
5	324.15	34.02	-95.26	-61.24	-13	-48.24
6	553.31	31.93	-95.26	-63.33	-13	-50.33

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 19100	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.6	34.84	-95.26	-60.42	-13	-47.42
2	101.64	35.33	-95.26	-59.93	-13	-46.93
3	155.67	27.74	-95.26	-67.52	-13	-54.52
4	187.28	32.3	-95.26	-62.96	-13	-49.96
5	314.84	31.56	-95.26	-63.70	-13	-50.70
6	440.1	30.23	-95.26	-65.03	-13	-52.03

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	56.47	34.52	-95.26	-60.74	-13	-47.74
2	92.45	34.83	-95.26	-60.43	-13	-47.43
3	134.93	30.86	-95.26	-64.40	-13	-51.40
4	179.23	25.65	-95.26	-69.61	-13	-56.61
5	325.89	33.84	-95.26	-61.42	-13	-48.42
6	552.65	32.15	-95.26	-63.11	-13	-50.11

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

ABOVE 1GHz

WCDMA B2:

Mode	TX channel 9262	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3704.8	35.8	-95.26	-59.46	-13	-46.46
2	5557.2	44.05	-95.26	-51.21	-13	-38.21
3	7409.6	65.19	-95.26	-30.07	-13	-17.07
4	9262	56.12	-95.26	-39.14	-13	-26.14
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3704.8	37.01	-95.26	-58.25	-13	-45.25
2	5557.2	47.07	-95.26	-48.19	-13	-35.19
3	7409.6	63.7	-95.26	-31.56	-13	-18.56
4	9262	56.76	-95.26	-38.50	-13	-25.50

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 9400	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	36.02	-95.26	-59.24	-13	-46.24
2	5640	45.15	-95.26	-50.11	-13	-37.11
3	7520	65.78	-95.26	-29.48	-13	-16.48
4	9400	55.93	-95.26	-39.33	-13	-26.33
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.69	-95.26	-57.57	-13	-44.57
2	5640	46.61	-95.26	-48.65	-13	-35.65
3	7520	64.81	-95.26	-30.45	-13	-17.45
4	9400	57.43	-95.26	-37.83	-13	-24.83

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 9538	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.2	35.82	-95.26	-59.44	-13	-46.44
2	5722.8	44.74	-95.26	-50.52	-13	-37.52
3	7630.4	65.12	-95.26	-30.14	-13	-17.14
4	9538	55.79	-95.26	-39.47	-13	-26.47
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815.2	38.44	-95.26	-56.82	-13	-43.82
2	5722.8	45.46	-95.26	-49.80	-13	-36.80
3	7630.4	64.82	-95.26	-30.44	-13	-17.44
4	9538	57.77	-95.26	-37.49	-13	-24.49

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 1.4 MHz

Mode	TX channel 18607	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.4	36.75	-95.26	-58.51	-13	-45.51
2	5552.1	44.48	-95.26	-50.78	-13	-37.78
3	7402.8	69.39	-95.26	-25.87	-13	-12.87
4	9253.5	60.5	-95.26	-34.76	-13	-21.76
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3701.4	37.88	-95.26	-57.38	-13	-44.38
2	5552.1	46.3	-95.26	-48.96	-13	-35.96
3	7402.8	69.05	-95.26	-26.21	-13	-13.21
4	9253.5	62.09	-95.26	-33.17	-13	-20.17

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.58	-95.26	-57.68	-13	-44.68
2	5640	43.7	-95.26	-51.56	-13	-38.56
3	7520	69.8	-95.26	-25.46	-13	-12.46
4	9400	60.2	-95.26	-35.06	-13	-22.06
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	38.6	-95.26	-56.66	-13	-43.66
2	5640	46.3	-95.26	-48.96	-13	-35.96
3	7520	70	-95.26	-25.26	-13	-12.26
4	9400	62.9	-95.26	-32.36	-13	-19.36

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19193	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3818.6	37.12	-95.26	-58.14	-13	-45.14
2	5727.9	43.16	-95.26	-52.10	-13	-39.10
3	7637.2	69.82	-95.26	-25.44	-13	-12.44
4	9546.5	59.56	-95.26	-35.70	-13	-22.70
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3818.6	38.63	-95.26	-56.63	-13	-43.63
2	5727.9	46.82	-95.26	-48.44	-13	-35.44
3	7637.2	70.3	-95.26	-24.96	-13	-11.96
4	9546.5	63.85	-95.26	-31.41	-13	-18.41

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 3 MHz

Mode	TX channel 18615	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703	36.66	-95.26	-58.60	-13	-45.60
2	5554.5	43.49	-95.26	-51.77	-13	-38.77
3	7406	69.08	-95.26	-26.18	-13	-13.18
4	9257.5	61.18	-95.26	-34.08	-13	-21.08
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3703	37.95	-95.26	-57.31	-13	-44.31
2	5554.5	46.38	-95.26	-48.88	-13	-35.88
3	7406	69.01	-95.26	-26.25	-13	-13.25
4	9257.5	62.51	-95.26	-32.75	-13	-19.75

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.89	-95.26	-57.37	-13	-44.37
2	5640	44.33	-95.26	-50.93	-13	-37.93
3	7520	69.72	-95.26	-25.54	-13	-12.54
4	9400	61.14	-95.26	-34.12	-13	-21.12
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	38.97	-95.26	-56.29	-13	-43.29
2	5640	46	-95.26	-49.26	-13	-36.26
3	7520	70.78	-95.26	-24.48	-13	-11.48
4	9400	63.14	-95.26	-32.12	-13	-19.12

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19185	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3817	37.17	-95.26	-58.09	-13	-45.09
2	5725.5	44.26	-95.26	-51.00	-13	-38.00
3	7634	69.53	-95.26	-25.73	-13	-12.73
4	9542.5	59.77	-95.26	-35.49	-13	-22.49
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3817	39.54	-95.26	-55.72	-13	-42.72
2	5725.5	46.57	-95.26	-48.69	-13	-35.69
3	7634	70.36	-95.26	-24.90	-13	-11.90
4	9542.5	62.91	-95.26	-32.35	-13	-19.35

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 5 MHz

Mode	TX channel 18625	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705	38.35	-95.26	-56.91	-13	-43.91
2	5557.5	44.21	-95.26	-51.05	-13	-38.05
3	7410	70.05	-95.26	-25.21	-13	-12.21
4	9262.5	60.06	-95.26	-35.20	-13	-22.20
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3705	38.2	-95.26	-57.06	-13	-44.06
2	5557.5	46.88	-95.26	-48.38	-13	-35.38
3	7410	70.55	-95.26	-24.71	-13	-11.71
4	9262.5	63.4	-95.26	-31.86	-13	-18.86

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	38.5	-95.26	-56.76	-13	-43.76
2	5640	44.01	-95.26	-51.25	-13	-38.25
3	7520	68.9	-95.26	-26.36	-13	-13.36
4	9400	59.67	-95.26	-35.59	-13	-22.59
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.79	-95.26	-57.47	-13	-44.47
2	5640	45.95	-95.26	-49.31	-13	-36.31
3	7520	69.5	-95.26	-25.76	-13	-12.76
4	9400	62.88	-95.26	-32.38	-13	-19.38

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19175	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815	37.23	-95.26	-58.03	-13	-45.03
2	5722.5	44.09	-95.26	-51.17	-13	-38.17
3	7630	68.84	-95.26	-26.42	-13	-13.42
4	9537.5	59.61	-95.26	-35.65	-13	-22.65
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3815	39.55	-95.26	-55.71	-13	-42.71
2	5722.5	45.62	-95.26	-49.64	-13	-36.64
3	7630	70.44	-95.26	-24.82	-13	-11.82
4	9537.5	62.5	-95.26	-32.76	-13	-19.76

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 10 MHz

Mode	TX channel 18650	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710	37.67	-95.26	-57.59	-13	-44.59
2	5565	42.72	-95.26	-52.54	-13	-39.54
3	7420	68.94	-95.26	-26.32	-13	-13.32
4	9275	60.38	-95.26	-34.88	-13	-21.88
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710	37.75	-95.26	-57.51	-13	-44.51
2	5565	45.58	-95.26	-49.68	-13	-36.68
3	7420	70.52	-95.26	-24.74	-13	-11.74
4	9275	62.75	-95.26	-32.51	-13	-19.51

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.03	-95.26	-58.23	-13	-45.23
2	5640	44.65	-95.26	-50.61	-13	-37.61
3	7520	70.72	-95.26	-24.54	-13	-11.54
4	9400	60.01	-95.26	-35.25	-13	-22.25
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.94	-95.26	-57.32	-13	-44.32
2	5640	45.42	-95.26	-49.84	-13	-36.84
3	7520	70.75	-95.26	-24.51	-13	-11.51
4	9400	63.64	-95.26	-31.62	-13	-18.62

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19150	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810	38.18	-95.26	-57.08	-13	-44.08
2	5715	42.85	-95.26	-52.41	-13	-39.41
3	7620	69.49	-95.26	-25.77	-13	-12.77
4	9525	60.09	-95.26	-35.17	-13	-22.17
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3810	39.32	-95.26	-55.94	-13	-42.94
2	5715	46.82	-95.26	-48.44	-13	-35.44
3	7620	69.18	-95.26	-26.08	-13	-13.08
4	9525	62.83	-95.26	-32.43	-13	-19.43

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 15 MHz

Mode	TX channel 18675	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715	37.86	-95.26	-57.40	-13	-44.40
2	5572.5	43.15	-95.26	-52.11	-13	-39.11
3	7430	69.11	-95.26	-26.15	-13	-13.15
4	9287.5	60.43	-95.26	-34.83	-13	-21.83
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3715	38.24	-95.26	-57.02	-13	-44.02
2	5572.5	47.28	-95.26	-47.98	-13	-34.98
3	7430	70.68	-95.26	-24.58	-13	-11.58
4	9287.5	63.16	-95.26	-32.10	-13	-19.10

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	38.05	-95.26	-57.21	-13	-44.21
2	5640	43.56	-95.26	-51.70	-13	-38.70
3	7520	69.97	-95.26	-25.29	-13	-12.29
4	9400	59.39	-95.26	-35.87	-13	-22.87
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.75	-95.26	-57.51	-13	-44.51
2	5640	46	-95.26	-49.26	-13	-36.26
3	7520	69.3	-95.26	-25.96	-13	-12.96
4	9400	63.31	-95.26	-31.95	-13	-18.95

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19125	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3805	37.41	-95.26	-57.85	-13	-44.85
2	5707.5	43.63	-95.26	-51.63	-13	-38.63
3	7610	69.59	-95.26	-25.67	-13	-12.67
4	9512.5	60.72	-95.26	-34.54	-13	-21.54
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3805	39	-95.26	-56.26	-13	-43.26
2	5707.5	46.07	-95.26	-49.19	-13	-36.19
3	7610	69.66	-95.26	-25.60	-13	-12.60
4	9512.5	63.61	-95.26	-31.65	-13	-18.65

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

LTE Band 2: 20 MHz

Mode	TX channel 18700	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720	38.3	-95.26	-56.96	-13	-43.96
2	5580	43.08	-95.26	-52.18	-13	-39.18
3	7440	69.47	-95.26	-25.79	-13	-12.79
4	9300	59.58	-95.26	-35.68	-13	-22.68
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3720	38.79	-95.26	-56.47	-13	-43.47
2	5580	46.84	-95.26	-48.42	-13	-35.42
3	7440	70.59	-95.26	-24.67	-13	-11.67
4	9300	62.39	-95.26	-32.87	-13	-19.87

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance @3m.

Mode	TX channel 18900	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.59	-95.26	-57.67	-13	-44.67
2	5640	44.06	-95.26	-51.20	-13	-38.20
3	7520	70.73	-95.26	-24.53	-13	-11.53
4	9400	60.82	-95.26	-34.44	-13	-21.44
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3760	37.76	-95.26	-57.50	-13	-44.50
2	5640	46.69	-95.26	-48.57	-13	-35.57
3	7520	70.81	-95.26	-24.45	-13	-11.45
4	9400	62.89	-95.26	-32.37	-13	-19.37

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 19100	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3800	38.27	-95.26	-56.99	-13	-43.99
2	5700	43.05	-95.26	-52.21	-13	-39.21
3	7600	70.24	-95.26	-25.02	-13	-12.02
4	9500	59.75	-95.26	-35.51	-13	-22.51
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3800	38.45	-95.26	-56.81	-13	-43.81
2	5700	46.27	-95.26	-48.99	-13	-35.99
3	7600	69.94	-95.26	-25.32	-13	-12.32
4	9500	62.67	-95.26	-32.59	-13	-19.59

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

5 Pictures of Test Arrangements

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

Appendix – Information of 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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