

Partial FCC Test Report

(PART 22)

Report No.: RF200522C02-5

FCC ID: S9E-EM7565

Test Model: EM7565

Received Date: May 22, 2020

Test Date: Jun. 08 ~ Jun. 30, 2020

Issued Date: Jul. 03, 2020

Applicant: Trimble Inc.

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

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF200522C02-5	Original Release	Jul. 03, 2020

1 Certificate of Conformity

Product: LTE/UMTS Wireless Module

Brand: AirPrime

Test Model: EM7565

Sample Status: Identical Prototype

Applicant: Trimble Inc.

Test Date: Jun. 08 ~ Jun. 30, 2020

Standards: FCC Part 22, Subpart H

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

Prepared by : Lena Wang , **Date:** Jul. 03, 2020
Lena Wang / Specialist

Approved by : Dylan Chiou , **Date:** Jul. 03, 2020
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
22.913 (d)	Peak to Average Ratio	N/A	Refer to Note 1
2.1055 22.355	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
22.917	Band Edge Measurements	N/A	Refer to Note 1
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -29.79 dB at 34.85 MHz.

Note:

1. This report is a partial report, only test item of Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Radiated Emission test according to the maximum output power (EPR) channel. Other testing data please refer to the SPORTON report no.: FG791919A, FG791919B for module (Brand: Sierra, Model: EM7565).
2. 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) (\pm)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 08, 2019	Oct. 07, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 08, 2019	Nov. 07, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Loop Antenna	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier EMCI	EMC 012645	980115	Oct. 08, 2019	Oct. 07, 2020
Preamplifier EMCI	EMC 184045	980116	Oct. 08, 2019	Oct. 07, 2020
Preamplifier EMCI	EMC 330H	980112	Oct. 08, 2019	Oct. 07, 2020
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM- 8000&3000	140811+170717	Oct. 08, 2019	Oct. 07, 2020
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 08, 2019	Oct. 07, 2020
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 08, 2019	Oct. 07, 2020
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 19, 2019	Aug. 18, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101582	Mar. 31, 2020	Mar. 30, 2021

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.

3 General Information

3.1 General Description of EUT

Product	LTE/UMTS Wireless Module	
Brand	AirPrime	
Test Model	EM7565	
Status of EUT	Identical Prototype	
Power Supply Rating	5.0 Vdc (adapter)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM, 64QAM
Frequency Range	WCDMA	826.4 ~ 846.6 MHz
	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz
Max. ERP Power	WCDMA	100.23 mW
	LTE 5 (Channel Bandwidth: 1.4 MHz)	82.60 mW
	LTE 5 (Channel Bandwidth: 3 MHz)	87.10 mW
	LTE 5 (Channel Bandwidth: 5 MHz)	92.04 mW
	LTE 5 (Channel Bandwidth: 10 MHz)	97.50 mW
	LTE 26 (Channel Bandwidth: 1.4 MHz)	85.70 mW
	LTE 26 (Channel Bandwidth: 3 MHz)	91.20 mW
	LTE 26 (Channel Bandwidth: 5 MHz)	96.83 mW
	LTE 26 (Channel Bandwidth: 10 MHz)	102.09 mW
	LTE 26 (Channel Bandwidth: 15 MHz)	107.89 mW
Antenna Type	Refer to Note as below	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

- The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Product	Brand	Model
10" Handheld computer	Trimble Inc.	121800

2. The End-product contains following accessory devices.

Product	Brand	Model	Description
Adapter	ADAPTER TECH	APD065T-A200	I/P: 100-240 Vac, 50/60 Hz, 1.6 A O/P: 5 Vdc, 3 A 1 meter, non-shielded cable, with ferrite core
POWER CORD	ADAPTER TECH	N/A	1.75 meter, non-shielded cable, w/o ferrite core

3. The antenna information is listed as below.

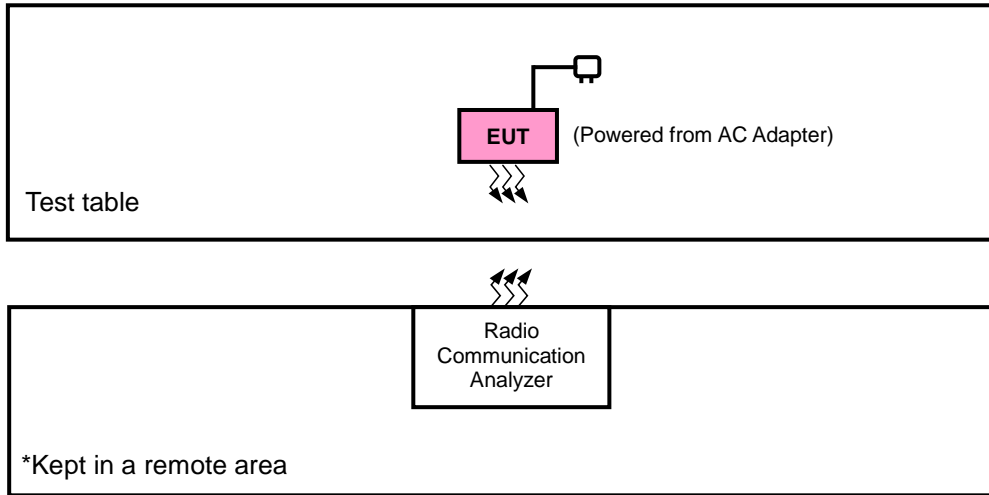
Antenna Type		PIFA		
Band		WCDMA	LTE	
		V	5	26
Gain	Main	-1.67	-1.67	-1.67
	Aux.	-1.24	-1.24	-1.24

4. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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

3.2 Configuration of System under Test

<Radiated Emission Test> & <E.R.P. Test>



3.3 Test Mode Applicability and Tested Channel Detail

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

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

Band	ERP	Radiated Emission
WCDMA	X-plane	X-axis
LTE Band 5	X-plane	X-axis
LTE Band 26	X-plane	X-axis

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	Radiated Emission	4132 to 4233	4233	WCDMA

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	20407 to 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	Radiated Emission	20450 to 20600	20525	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26797 to 27033	26797, 26915, 27033	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	Radiated Emission	26865 to 26965	26965	15 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	120 Vac, 60 Hz	Wayne Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Tim Chen

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards and references

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

Note: All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

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

4.1.2 Test Procedures

EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RBW is 5 MHz for WCDMA and 5MHz ∙ 10 MHz for LTE mode, and VBW ≥ 3 x RBW.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

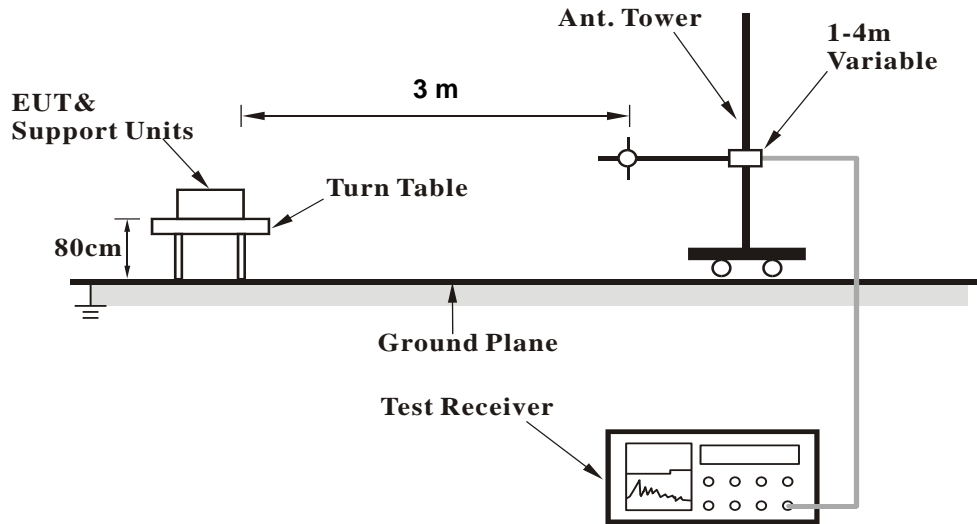
Conducted Power Measurement:

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

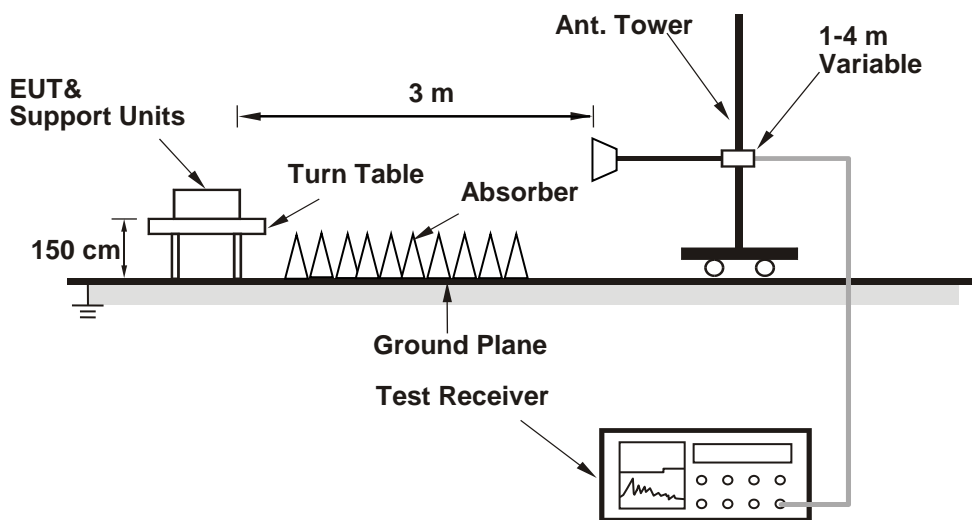
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

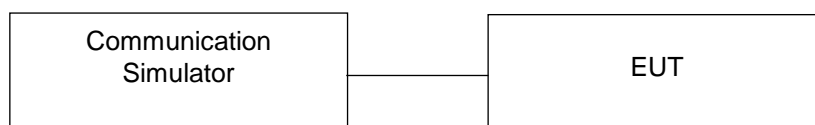


<Radiated Emission above 1 GHz>



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

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.50	23.42	23.44
HSDPA Subtest-1	22.55	22.47	22.49
HSDPA Subtest-2	22.53	22.45	22.47
HSDPA Subtest-3	22.04	21.96	21.98
HSDPA Subtest-4	22.03	21.95	21.97
DC-HSDPA Subtest-1	22.43	22.35	22.37
DC-HSDPA Subtest-2	22.41	22.33	22.35
DC-HSDPA Subtest-3	21.92	21.84	21.86
DC-HSDPA Subtest-4	21.91	21.83	21.85
HSUPA Subtest-1	22.51	22.43	22.45
HSUPA Subtest-2	20.56	20.48	20.50
HSUPA Subtest-3	21.55	21.47	21.49
HSUPA Subtest-4	20.49	20.41	20.43
HSUPA Subtest-5	22.40	22.32	22.34

LTE Band 5																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				Channel	20450	20525						20600	Channel	20425		20525	20625
				Frequency (MHz)	829.0	836.5						844.0	Frequency (MHz)	826.5		836.5	846.5
10M	QPSK	1	0	23.22	23.31	23.25	0	5M	QPSK	1	0	23.12	23.30	23.24	0		
		1	24	23.19	23.28	23.22	0			1	12	23.10	23.27	23.13	0		
		1	49	23.05	23.14	23.08	0			1	24	23.05	23.07	23.06	0		
		25	0	22.26	22.35	22.29	1			12	0	22.21	22.26	22.23	1		
		25	12	22.25	22.34	22.28	1			12	6	22.16	22.32	22.20	1		
		25	25	22.19	22.28	22.22	1			12	13	22.16	22.21	22.18	1		
	16QAM	50	0	22.22	22.31	22.25	1		25	0	22.20	22.24	22.23	1			
		1	0	22.40	22.49	22.43	1		1	0	22.34	22.39	22.37	1			
		1	24	22.38	22.47	22.41	1		1	12	22.32	22.42	22.36	1			
		1	49	22.32	22.41	22.35	1		1	24	22.32	22.36	22.33	1			
		25	0	21.36	21.45	21.39	2		12	0	21.29	21.37	21.32	2			
		25	12	21.34	21.43	21.37	2		12	6	21.29	21.35	21.37	2			
	64QAM	25	25	21.23	21.32	21.26	2		12	13	21.16	21.24	21.23	2			
		50	0	21.30	21.39	21.33	2		25	0	21.25	21.39	21.33	2			
		1	0	21.36	21.45	21.39	2		1	0	21.28	21.38	21.36	2			
		1	24	21.32	21.41	21.35	2		1	12	21.23	21.37	21.33	2			
		1	49	21.26	21.35	21.29	2		1	24	21.18	21.27	21.22	2			
		25	0	20.34	20.43	20.37	3		12	0	20.26	20.37	20.32	3			
	3M	QPSK	25	12	20.29	20.38	20.32		3	1.4M	QPSK	12	6	20.25	20.30	20.31	3
			25	25	20.22	20.31	20.25		3			12	13	20.18	20.31	20.16	3
			50	0	20.32	20.41	20.35		3			25	0	20.28	20.40	20.30	3
			1	0	23.13	23.19	23.13		0			1	0	23.08	23.16	23.14	0
			1	7	22.99	23.08	23.02		0			1	2	23.00	23.09	23.07	0
			1	14	22.95	23.03	22.99		0			1	5	22.96	22.94	22.90	0
16QAM		8	0	22.21	22.13	22.08	1	3	0		23.11	23.13	23.10	0			
		8	3	22.02	22.20	22.20	1	3	1		23.12	23.24	23.23	0			
		8	7	22.10	22.15	22.08	1	3	3		23.09	23.06	23.15	0			
		15	0	22.04	22.18	22.03	1	6	0		22.13	22.21	22.14	1			
		1	0	22.19	22.47	22.37	1	1	0		22.26	22.38	22.29	1			
		1	7	22.30	22.32	22.31	1	1	2		22.19	22.26	22.36	1			
64QAM		1	14	22.27	22.29	22.24	1	1	5		22.26	22.24	22.22	1			
		8	0	21.25	21.32	21.28	2	3	0		22.29	22.37	22.28	1			
		8	3	21.18	21.27	21.31	2	3	1		22.28	22.32	22.29	1			
		8	7	21.07	21.22	21.13	2	3	3		22.15	22.29	22.14	1			
		15	0	21.27	21.30	21.18	2	6	0		21.21	21.29	21.21	2			
		1	0	21.21	21.40	21.29	2	1	0		21.20	21.35	21.28	2			
16QAM		1	7	21.16	21.27	21.33	2	1	2		21.23	21.26	21.28	2			
		1	14	21.15	21.22	21.09	2	1	5		21.10	21.20	21.18	2			
		8	0	20.24	20.24	20.32	3	3	0		21.18	21.32	21.30	2			
		8	3	20.17	20.18	20.22	3	3	1		21.22	21.31	21.25	2			
		8	7	20.08	20.20	20.07	3	3	3		21.01	21.17	21.24	2			
		15	0	20.09	20.33	20.24	3	6	0		20.26	20.24	20.30	3			

LTE Band 26																
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	
				26865	26915	26965						26840	26915	26990		
				Channel Frequency (MHz)	831.5	836.5						841.5	Channel Frequency (MHz)	829.0		836.5
15M	QPSK	1	0	23.31	23.38	23.43	0	10M	QPSK	1	0	23.25	23.33	23.37	0	
		1	37	23.27	23.34	23.39	0			1	24	23.24	23.34	23.38	0	
		1	74	23.15	23.22	23.27	0			1	49	23.07	23.21	23.21	0	
		36	0	22.42	22.49	22.54	1			25	0	22.35	22.42	22.47	1	
		36	19	22.36	22.43	22.48	1			25	12	22.28	22.43	22.39	1	
		36	39	22.31	22.38	22.43	1			25	25	22.26	22.34	22.41	1	
		75	0	22.34	22.41	22.46	1			50	0	22.27	22.40	22.36	1	
	16QAM	1	0	22.39	22.46	22.51	1		16QAM	1	0	22.30	22.46	22.42	1	
		1	37	22.35	22.42	22.47	1			1	24	22.26	22.37	22.47	1	
		1	74	22.34	22.41	22.46	1			1	49	22.26	22.40	22.37	1	
		36	0	21.36	21.43	21.48	2			25	0	21.31	21.34	21.43	2	
		36	19	21.34	21.41	21.46	2			25	12	21.34	21.37	21.38	2	
		36	39	21.28	21.35	21.40	2			25	25	21.22	21.33	21.40	2	
		75	0	21.35	21.42	21.47	2			50	0	21.30	21.42	21.37	2	
	64QAM	1	0	21.35	21.42	21.47	2		64QAM	1	0	21.30	21.32	21.37	2	
		1	37	21.30	21.37	21.42	2			1	24	21.29	21.33	21.42	2	
		1	74	21.28	21.35	21.40	2			1	49	21.20	21.26	21.35	2	
		36	0	20.37	20.44	20.49	3			25	0	20.27	20.39	20.43	3	
		36	19	20.30	20.37	20.42	3			25	12	20.21	20.36	20.36	3	
		36	39	20.28	20.35	20.40	3			25	25	20.18	20.32	20.30	3	
		75	0	20.32	20.39	20.44	3			50	0	20.27	20.33	20.37	3	
5M	QPSK	1	0	23.22	23.36	23.24	0	3M	QPSK	1	0	23.13	23.37	23.18	1	
		1	12	23.09	23.14	23.26	0			1	7	23.18	23.16	23.12	1	
		1	24	23.09	23.01	23.13	0			1	14	23.01	23.05	23.08	1	
		12	0	22.30	22.26	22.46	1			8	0	22.27	22.31	22.33	3	
		12	6	22.32	22.28	22.35	1			8	3	22.26	22.22	22.25	3	
		12	13	22.24	22.24	22.30	1			8	7	22.24	22.21	22.16	3	
		25	0	22.16	22.34	22.26	1			15	0	22.14	22.25	22.39	6	
	16QAM	1	0	22.28	22.26	22.34	1		16QAM	1	0	22.27	22.37	22.36	1	
		1	12	22.18	22.28	22.38	1			1	7	22.26	22.30	22.40	1	
		1	24	22.30	22.30	22.37	1			1	14	22.18	22.20	22.30	1	
		12	0	21.23	21.25	21.28	2			8	0	21.16	21.24	21.31	2	
		12	6	21.28	21.26	21.32	2			8	3	21.21	21.27	21.37	2	
		12	13	21.22	21.33	21.30	2			8	7	21.14	21.31	21.31	2	
		25	0	21.24	21.32	21.36	2			15	0	21.20	21.32	21.44	2	
	64QAM	1	0	21.14	21.33	21.26	2		64QAM	1	0	21.23	21.25	21.32	2	
		1	12	21.17	21.24	21.34	2			1	7	21.08	21.21	21.25	2	
		1	24	21.16	21.32	21.31	2			1	14	21.22	21.22	21.19	2	
		12	0	20.29	20.29	20.38	3			8	0	20.32	20.26	20.39	3	
		12	6	20.18	20.18	20.32	3			8	3	20.06	20.19	20.30	3	
		12	13	20.11	20.28	20.19	3			8	7	20.18	20.28	20.15	3	
		25	0	20.15	20.26	20.28	3			15	0	20.24	20.20	20.37	3	
1.4M	QPSK	1	0	23.15	23.31	23.33	0	[Empty]	QPSK	1	0	23.08	23.26	23.25	0	
		1	2	23.08	23.26	23.25	0			1	5	23.01	23.02	23.22	0	
		1	5	23.01	23.02	23.22	0			3	0	23.42	23.38	23.43	0	
		3	0	23.27	23.34	23.35	0			3	1	23.27	23.34	23.35	0	
		3	3	23.21	23.37	23.32	0			3	3	23.21	23.37	23.32	0	
		6	0	22.27	22.37	22.27	1			6	0	22.27	22.37	22.27	1	
		16QAM	1	0	22.19	22.30	22.42			1	16QAM	1	0	22.19	22.37	22.41
	1		2	22.20	22.17	22.37	1		1	2		22.20	22.17	22.37	1	
	1		5	22.16	22.19	22.41	1		3	0		22.24	22.24	22.32	1	
	3		0	22.24	22.24	22.32	1		3	1		22.27	22.23	22.36	1	
	3		3	22.07	22.34	22.35	1		3	3		22.07	22.34	22.35	1	
	6		0	21.19	21.37	21.37	2		6	0		21.19	21.37	21.37	2	
	64QAM		1	0	21.25	21.28	21.24		2	64QAM		1	0	21.25	21.25	21.35
		1	2	21.17	21.31	21.28	2		3		1	21.12	21.28	21.37	2	
		1	5	21.14	21.26	21.37	2		3		3	21.12	21.20	21.31	2	
		3	0	20.19	20.26	20.36	3		6		0	20.19	20.26	20.36	3	

ERP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	4132	826.4	-18.05	32.62	12.42	17.46	H
	4182	836.4	-17.85	32.52	12.52	17.86	
	4233	846.6	-17.84	32.65	12.66	18.45	
	4132	826.4	-10.66	32.76	19.95	98.86	V
	4182	836.4	-10.27	32.39	19.97	99.31	
	4233	846.6	-10.38	32.54	20.01	100.23	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20407	824.7	-18.97	32.62	11.50	14.13	H
	20525	836.5	-18.67	32.52	11.70	14.79	
	20643	848.3	-19.17	32.65	11.33	13.58	
	20407	824.7	-11.54	32.76	19.07	80.72	V
	20525	836.5	-11.07	32.39	19.17	82.60	
	20643	848.3	-11.39	32.54	19.00	79.43	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	20407	824.7	-20.04	32.62	10.43	11.04	H
	20525	836.5	-19.74	32.52	10.63	11.56	
	20643	848.3	-20.24	32.65	10.26	10.62	
	20407	824.7	-12.61	32.76	18.00	63.10	V
	20525	836.5	-12.14	32.39	18.10	64.57	
	20643	848.3	-12.46	32.54	17.93	62.09	
Channel Bandwidth: 1.4 MHz / 64QAM							
X	20407	824.7	-21.01	32.62	9.46	8.83	H
	20525	836.5	-20.71	32.52	9.66	9.25	
	20643	848.3	-21.21	32.65	9.29	8.49	
	20407	824.7	-13.58	32.76	17.03	50.47	V
	20525	836.5	-13.11	32.39	17.13	51.64	
	20643	848.3	-13.43	32.54	16.96	49.66	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20415	825.5	-18.74	32.62	11.73	14.89	H
	20525	836.5	-18.44	32.52	11.93	15.60	
	20635	847.5	-18.94	32.65	11.56	14.32	
	20415	825.5	-11.31	32.76	19.30	85.11	V
	20525	836.5	-10.84	32.39	19.40	87.10	
	20635	847.5	-11.16	32.54	19.23	83.75	
Channel Bandwidth: 3 MHz / 16QAM							
X	20415	825.5	-19.75	32.62	10.72	11.80	H
	20525	836.5	-19.45	32.52	10.92	12.36	
	20635	847.5	-19.95	32.65	10.55	11.35	
	20415	825.5	-12.32	32.76	18.29	67.45	V
	20525	836.5	-11.85	32.39	18.39	69.02	
	20635	847.5	-12.17	32.54	18.22	66.37	
Channel Bandwidth: 3 MHz / 64QAM							
X	20415	825.5	-20.73	32.62	9.74	9.42	H
	20525	836.5	-20.43	32.52	9.94	9.86	
	20635	847.5	-20.93	32.65	9.57	9.06	
	20415	825.5	-13.30	32.76	17.31	53.83	V
	20525	836.5	-12.83	32.39	17.41	55.08	
	20635	847.5	-13.15	32.54	17.24	52.97	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20425	826.5	-18.50	32.62	11.97	15.74	H
	20525	836.5	-18.20	32.52	12.17	16.48	
	20625	846.5	-18.70	32.65	11.80	15.14	
	20425	826.5	-11.07	32.76	19.54	89.95	V
	20525	836.5	-10.60	32.39	19.64	92.04	
	20625	846.5	-10.92	32.54	19.47	88.51	
Channel Bandwidth: 5 MHz / 16QAM							
X	20425	826.5	-19.49	32.62	10.98	12.53	H
	20525	836.5	-19.19	32.52	11.18	13.12	
	20625	846.5	-19.69	32.65	10.81	12.05	
	20425	826.5	-12.06	32.76	18.55	71.61	V
	20525	836.5	-11.59	32.39	18.65	73.28	
	20625	846.5	-11.91	32.54	18.48	70.47	
Channel Bandwidth: 5 MHz / 64QAM							
X	20425	826.5	-20.49	32.62	9.98	9.95	H
	20525	836.5	-20.19	32.52	10.18	10.42	
	20625	846.5	-20.69	32.65	9.81	9.57	
	20425	826.5	-13.06	32.76	17.55	56.89	V
	20525	836.5	-12.59	32.39	17.65	58.21	
	20625	846.5	-12.91	32.54	17.48	55.98	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 5							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	20450	829.0	-18.25	32.62	12.22	16.67	H
	20525	836.5	-17.95	32.52	12.42	17.46	
	20600	844.0	-18.45	32.65	12.05	16.03	
	20450	829.0	-10.82	32.76	19.79	95.28	V
	20525	836.5	-10.35	32.39	19.89	97.50	
	20600	844.0	-10.67	32.54	19.72	93.76	
Channel Bandwidth: 10 MHz / 16QAM							
X	20450	829.0	-19.24	32.62	11.23	13.27	H
	20525	836.5	-18.94	32.52	11.43	13.90	
	20600	844.0	-19.44	32.65	11.06	12.76	
	20450	829.0	-11.81	32.76	18.80	75.86	V
	20525	836.5	-11.34	32.39	18.90	77.62	
	20600	844.0	-11.66	32.54	18.73	74.64	
Channel Bandwidth: 10 MHz / 64QAM							
X	20450	829.0	-20.23	32.62	10.24	10.57	H
	20525	836.5	-19.93	32.52	10.44	11.07	
	20600	844.0	-20.43	32.65	10.07	10.16	
	20450	829.0	-12.80	32.76	17.81	60.39	V
	20525	836.5	-12.33	32.39	17.91	61.80	
	20600	844.0	-12.65	32.54	17.74	59.43	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26797	824.7	-22.00	32.62	10.62	11.53	H
	26915	836.5	-21.99	32.52	10.53	11.30	
	27033	848.3	-21.85	32.65	10.80	12.02	
	26797	824.7	-13.47	32.76	19.29	84.92	V
	26915	836.5	-13.15	32.39	19.24	83.95	
	27033	848.3	-13.21	32.54	19.33	85.70	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	26797	824.7	-23.04	32.62	9.58	9.08	H
	26915	836.5	-23.03	32.52	9.49	8.89	
	27033	848.3	-22.89	32.65	9.76	9.46	
	26797	824.7	-14.51	32.76	18.25	66.83	V
	26915	836.5	-14.19	32.39	18.20	66.07	
	27033	848.3	-14.25	32.54	18.29	67.45	
Channel Bandwidth: 1.4 MHz / 64QAM							
X	26797	824.7	-24.04	32.62	8.58	7.21	H
	26915	836.5	-24.03	32.52	8.49	7.06	
	27033	848.3	-23.89	32.65	8.76	7.52	
	26797	824.7	-15.51	32.76	17.25	53.09	V
	26915	836.5	-15.19	32.39	17.20	52.48	
	27033	848.3	-15.25	32.54	17.29	53.58	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26805	825.5	-21.73	32.62	10.89	12.27	H
	26915	836.5	-21.72	32.52	10.80	12.02	
	27025	847.5	-21.58	32.65	11.07	12.79	
	26805	825.5	-13.20	32.76	19.56	90.36	V
	26915	836.5	-12.88	32.39	19.51	89.33	
	27025	847.5	-12.94	32.54	19.60	91.20	
Channel Bandwidth: 3 MHz / 16QAM							
X	26805	825.5	-22.78	32.62	9.84	9.64	H
	26915	836.5	-22.77	32.52	9.75	9.44	
	27025	847.5	-22.63	32.65	10.02	10.05	
	26805	825.5	-14.25	32.76	18.51	70.96	V
	26915	836.5	-13.93	32.39	18.46	70.15	
	27025	847.5	-13.99	32.54	18.55	71.61	
Channel Bandwidth: 3 MHz / 64QAM							
X	26805	825.5	-23.82	32.62	8.80	7.59	H
	26915	836.5	-23.81	32.52	8.71	7.43	
	27025	847.5	-23.67	32.65	8.98	7.91	
	26805	825.5	-15.29	32.76	17.47	55.85	V
	26915	836.5	-14.97	32.39	17.42	55.21	
	27025	847.5	-15.03	32.54	17.51	56.36	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26815	826.5	-21.47	32.62	11.15	13.03	H
	26915	836.5	-21.46	32.52	11.06	12.76	
	27015	846.5	-21.32	32.65	11.33	13.58	
	26815	826.5	-12.94	32.76	19.82	95.94	V
	26919	836.5	-12.62	32.39	19.77	94.84	
	27015	846.5	-12.68	32.54	19.86	96.83	
Channel Bandwidth: 5 MHz / 16QAM							
X	26815	826.5	-22.49	32.62	10.13	10.30	H
	26915	836.5	-22.48	32.52	10.04	10.09	
	27015	846.5	-22.34	32.65	10.31	10.74	
	26815	826.5	-13.96	32.76	18.80	75.86	V
	26919	836.5	-13.64	32.39	18.75	74.99	
	27015	846.5	-13.70	32.54	18.84	76.56	
Channel Bandwidth: 5 MHz / 64QAM							
X	26815	826.5	-23.55	32.62	9.07	8.07	H
	26915	836.5	-23.54	32.52	8.98	7.91	
	27015	846.5	-23.40	32.65	9.25	8.41	
	26815	826.5	-15.02	32.76	17.74	59.43	V
	26919	836.5	-14.70	32.39	17.69	58.75	
	27015	846.5	-14.76	32.54	17.78	59.98	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26840	829.0	-21.24	32.62	11.38	13.74	H
	26915	836.5	-21.23	32.52	11.29	13.46	
	26990	844.0	-21.09	32.65	11.56	14.32	
	26840	829.0	-12.71	32.76	20.05	101.16	V
	26919	836.5	-12.39	32.39	20.00	100.00	
	26990	844.0	-12.45	32.54	20.09	102.09	
Channel Bandwidth: 10 MHz / 16QAM							
X	26840	829.0	-22.25	32.62	10.37	10.89	H
	26915	836.5	-22.24	32.52	10.28	10.67	
	26990	844.0	-22.10	32.65	10.55	11.35	
	26840	829.0	-13.72	32.76	19.04	80.17	V
	26919	836.5	-13.40	32.39	18.99	79.25	
	26990	844.0	-13.46	32.54	19.08	80.91	
Channel Bandwidth: 10 MHz / 64QAM							
X	26840	829.0	-23.29	32.62	9.33	8.57	H
	26915	836.5	-23.28	32.52	9.24	8.39	
	26990	844.0	-23.14	32.65	9.51	8.93	
	26840	829.0	-14.76	32.76	18.00	63.10	V
	26919	836.5	-14.44	32.39	17.95	62.37	
	26990	844.0	-14.50	32.54	18.04	63.68	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26865	831.5	-21.00	32.62	11.62	14.52	H
	26915	836.5	-20.99	32.52	11.53	14.22	
	26965	841.5	-20.85	32.65	11.80	15.14	
	26865	831.5	-12.47	32.76	20.29	106.91	V
	26915	836.5	-12.15	32.39	20.24	105.68	
	26965	841.5	-12.21	32.54	20.33	107.89	
Channel Bandwidth: 15 MHz / 16QAM							
X	26865	831.5	-22.02	32.62	10.60	11.48	H
	26915	836.5	-22.01	32.52	10.51	11.25	
	26965	841.5	-21.87	32.65	10.78	11.97	
	26865	831.5	-13.49	32.76	19.27	84.53	V
	26915	836.5	-13.17	32.39	19.22	83.56	
	26965	841.5	-13.23	32.54	19.31	85.31	
Channel Bandwidth: 15 MHz / 64QAM							
X	26865	831.5	-23.05	32.62	9.57	9.06	H
	26915	836.5	-23.04	32.52	9.48	8.87	
	26965	841.5	-22.90	32.65	9.75	9.44	
	26865	831.5	-14.52	32.76	18.24	66.68	V
	26915	836.5	-14.20	32.39	18.19	65.92	
	26965	841.5	-14.26	32.54	18.28	67.30	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

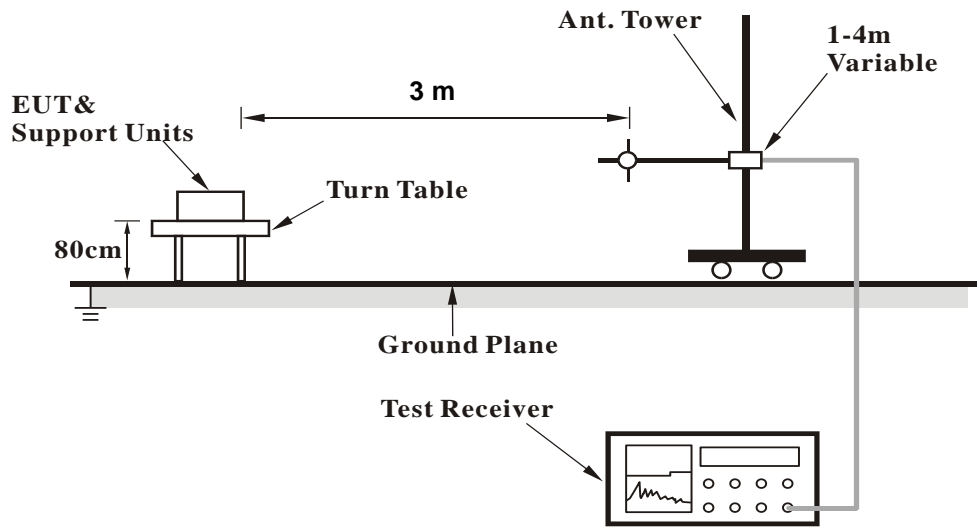
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

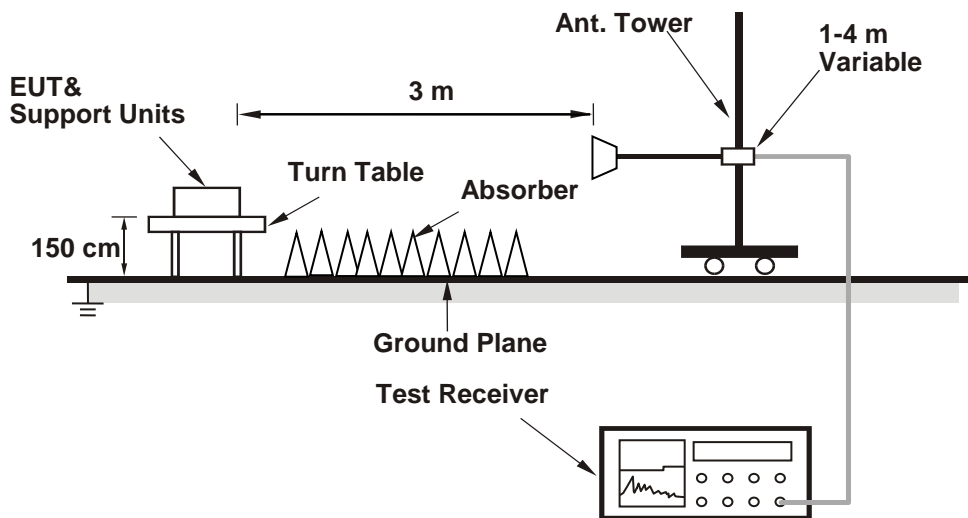
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

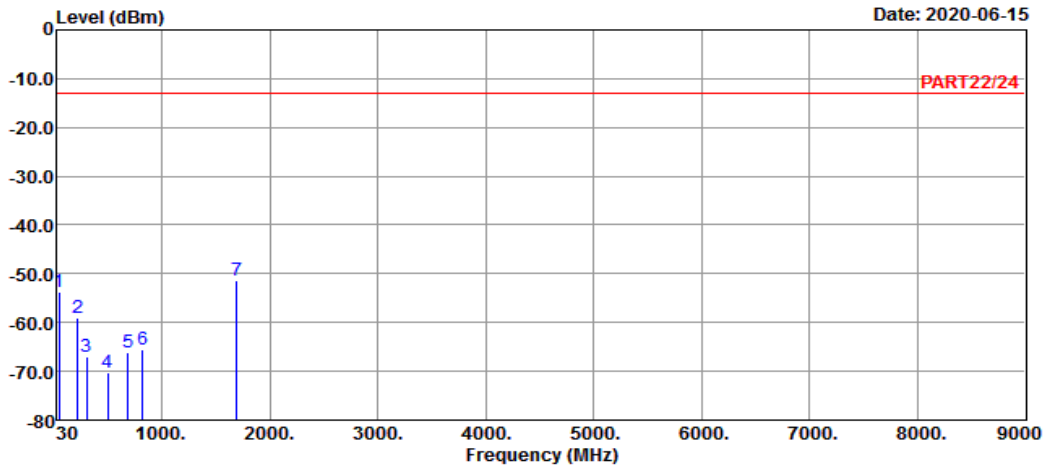
4.2.5 Test Results

 WCDMA:
 High Channel


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : WCDMA Band 5 Link_H-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-53.59	-51.60	-13.00	-1.99	-40.59	Peak
2	218.18	-59.14	-51.86	-13.00	-7.28	-46.14	Peak
3	304.51	-67.11	-60.17	-13.00	-6.94	-54.11	Peak
4	494.63	-70.40	-65.68	-13.00	-4.72	-57.40	Peak
5	686.69	-66.18	-65.87	-13.00	-0.31	-53.18	Peak
6	823.46	-65.46	-65.99	-13.00	0.53	-52.46	Peak
7 pp	1693.20	-51.39	-37.37	-13.00	-14.02	-38.39	Peak

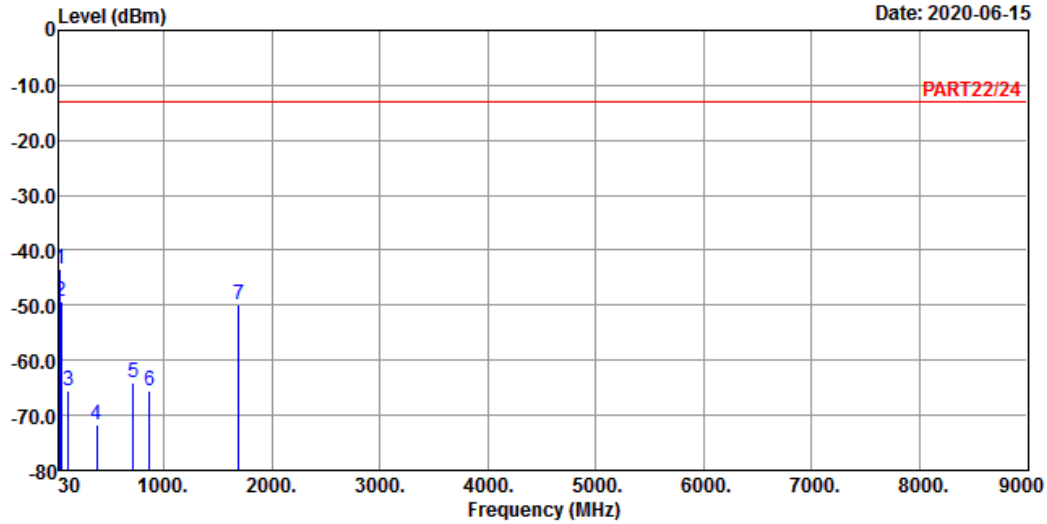


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Data: 6

Date: 2020-06-15



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : WCDMA Band 5 Link_H-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit	Line	Factor	Over	Limit	Remark
	MHz	dBm	dBm	dBm		dB	dB		
1 pp	37.76	-43.26	-42.82	-13.00	-0.44	-30.26	Peak		
2	45.52	-49.19	-46.69	-13.00	-2.50	-36.19	Peak		
3	117.30	-65.66	-55.68	-13.00	-9.98	-52.66	Peak		
4	380.17	-71.60	-65.54	-13.00	-6.06	-58.60	Peak		
5	716.76	-64.15	-64.38	-13.00	0.23	-51.15	Peak		
6	865.17	-65.55	-65.93	-13.00	0.38	-52.55	Peak		
7	1693.20	-49.88	-35.86	-13.00	-14.02	-36.88	Peak		

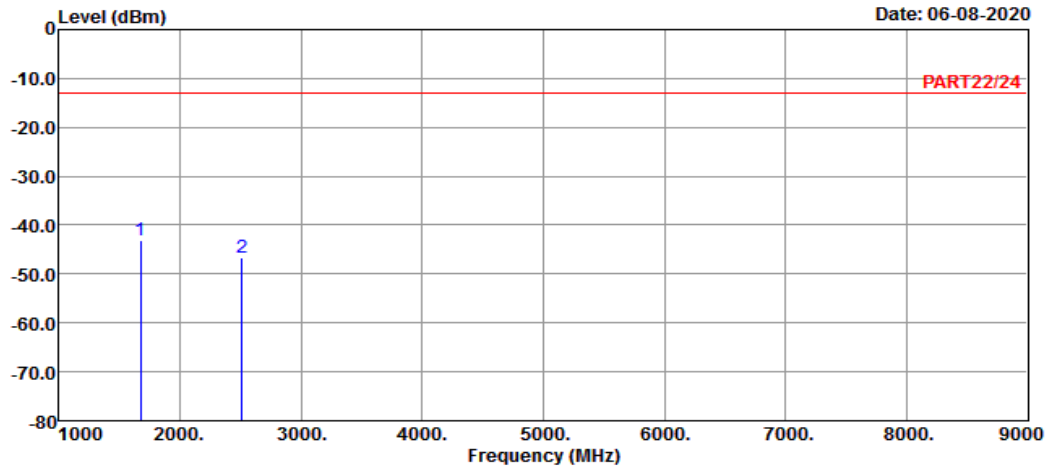
LTE Band 5
 Channel Bandwidth: 10 MHz / QPSK
 Middle Channel



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Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 5 QPSK_10M Link_M-CH
 Tested by: Jisyong Wang

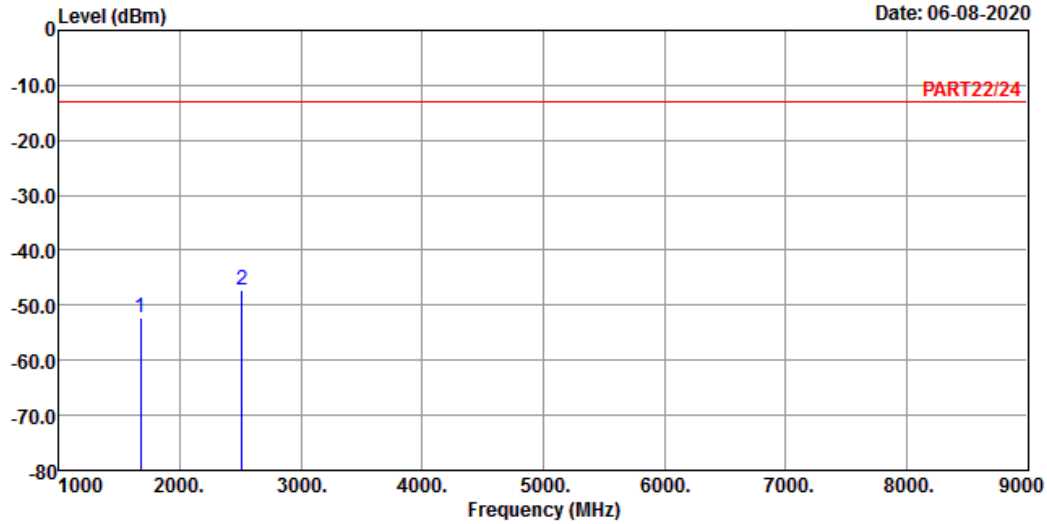
	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 1673.00	-43.18	-29.28	-13.00	-13.90	-30.18	Peak
2	2509.50	-46.73	-36.65	-13.00	-10.08	-33.73	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : LTE Band 5 QPSK_10M Link_M-CH
 Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1673.00	-52.29	-38.39	-13.00	-13.90	-39.29	Peak
2	2509.50	-47.32	-37.24	-13.00	-10.08	-34.32	Peak

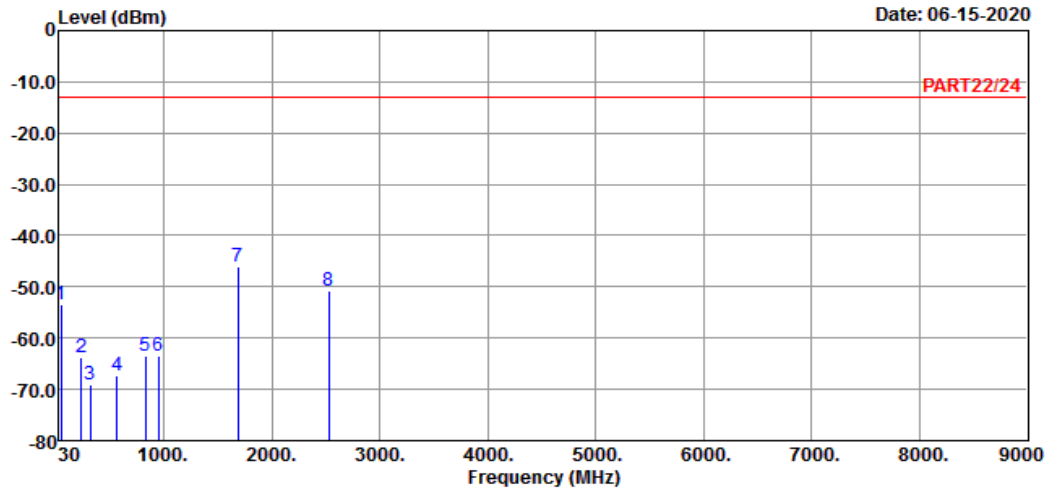
LTE Band 26
 Channel Bandwidth: 15 MHz / QPSK
 High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 26 QPSK_15M Link_H-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit	Over		
	MHz	dBm	dBm	dBm	dB	dB	Remark
1	43.58	-53.28	-51.81	-13.00	-1.47	-40.28	Peak
2	234.67	-63.90	-57.28	-13.00	-6.62	-50.90	Peak
3	315.18	-69.00	-62.22	-13.00	-6.78	-56.00	Peak
4	562.53	-67.21	-64.88	-13.00	-2.33	-54.21	Peak
5	826.37	-63.57	-64.07	-13.00	0.50	-50.57	Peak
6	946.65	-63.60	-65.33	-13.00	1.73	-50.60	Peak
7 pp	1683.00	-46.01	-32.05	-13.00	-13.96	-33.01	Peak
8	2524.50	-50.75	-40.68	-13.00	-10.07	-37.75	Peak

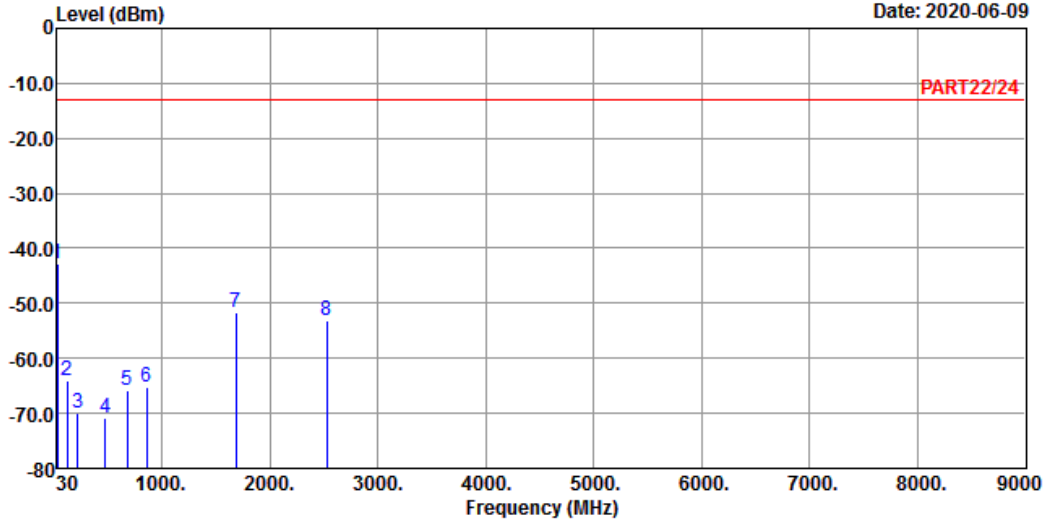


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-06-09



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : LTE Band 26 QPSK_15M Link_H-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	34.85	-42.79	-40.72	-13.00	-2.07	-29.79	Peak
2	121.18	-63.97	-54.24	-13.00	-9.73	-50.97	Peak
3	220.12	-69.99	-62.79	-13.00	-7.20	-56.99	Peak
4	474.26	-70.84	-65.74	-13.00	-5.10	-57.84	Peak
5	681.84	-65.80	-65.41	-13.00	-0.39	-52.80	Peak
6	861.29	-65.21	-65.57	-13.00	0.36	-52.21	Peak
7	1683.00	-51.57	-37.61	-13.00	-13.96	-38.57	Peak
8	2524.50	-53.12	-43.05	-13.00	-10.07	-40.12	Peak

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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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