

VARIANT FCC TEST REPORT

(PART 27)

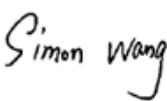
Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	2410FPCC5G
FCC ID:	2AFZZPCC5G
Date of tests:	May. 11, 2024 ~ Jul. 11, 2024 Oct. 16, 2024 ~ Nov.15, 2024

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 27** ☒ **ANSI/TIA/EIA-603-D**
☒ **FCC Part 2** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Nov.15, 2024	 Date: Nov.15, 2024

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 MEASUREMENT UNCERTAINTY	6
1.2 TEST SITE AND INSTRUMENTS	7
2 GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 CONFIGURATION OF SYSTEM UNDER TEST	13
2.3 DESCRIPTION OF SUPPORT UNITS	14
2.4 TEST ITEM AND TEST CONFIGURATION	14
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	20
3 TEST TYPES AND RESULTS	21
3.1 OUTPUT POWER MEASUREMENT	21
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	21
3.1.2 TEST PROCEDURES	21
3.1.3 TEST SETUP	22
3.1.4 TEST RESULTS	23
3.2 FREQUENCY STABILITY MEASUREMENT	97
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	97
3.2.2 TEST PROCEDURE	97
3.2.3 TEST SETUP	97
3.2.4 TEST RESULTS	98
3.3 OCCUPIED BANDWIDTH MEASUREMENT	99
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	99
3.3.2 TEST SETUP	99
3.3.3 TEST PROCEDURES	99
3.3.4 TEST RESULTS	100
3.4 BAND EDGE MEASUREMENT	101
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	101
3.4.2 TEST SETUP	102
3.4.3 TEST PROCEDURES	103
3.4.4 TEST RESULTS	104
3.5 CONDUCTED SPURIOUS EMISSIONS	105
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	105
3.5.2 TEST PROCEDURE	105
3.5.3 TEST SETUP	105
3.5.4 TEST RESULTS	106
3.6 RADIATED EMISSION MEASUREMENT	107
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	107
3.6.2 TEST PROCEDURES	107
3.6.3 DEVIATION FROM TEST STANDARD	107
3.6.4 TEST SETUP	108
3.6.5 TEST RESULTS	110
3.7 PEAK TO AVERAGE RATIO	140
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	140
3.7.2 TEST SETUP	140
3.7.3 TEST PROCEDURES	140
3.7.4 TEST RESULTS	141
4 PHOTOGRAPHS OF THE TEST CONFIGURATION	142



Test Report No.: W7L-P24100005RF08

5 INFORMATION ON THE TESTING LABORATORIES	143
6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB. 144	
7 APPENDIX	145
LTE BAND41 (INDCLUDING LTE BAND38).....	145
LTE BAND66 (INDCLUDING LTE BAND4).....	165



Test Report No.: W7L-P24100005RF08

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050016RF08	Original release	Jul. 11, 2024
W7L-P24100005RF08	Based on the original product add 2 nd materials, 5 th and 6 th screens. This report only verify conducted power and RSE worst case, the verify results of power are similar or lower, So this report only replaces the RSE worse case(LTE Band 41(Ant0) (UP)_10MHz/QPSK_CH41540).	Nov.15, 2024

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
§2.1046	Conducted Output Power	Compliance
§27.50(d)(4) §27.50(h)(2)	Equivalent Isotropically Radiated Power (Band 4) (Band 38) (Band 41) (Band 66)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(h) §27.53(m)(4)	Conducted Band Edge Measurements (Band 4) (Band 38) (Band 41) (Band 66)	Compliance
§2.1051 §27.53(h) §27.53(m)(4)	Conducted Spurious Emissions (Band 4) (Band 38) (Band 41) (Band 66)	Compliance
§2.1053 §27.53(h) §27.53(m)(4)	Radiated Spurious Emissions (Band 4) (Band 38) (Band 41) ((Band 66)	Compliance
NA	Peak to average ratio	Compliance

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District
Shenzhen, Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01

The FCC Site Registration No. is 525120; The Designation No. is CN1171.

1.1 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	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.2 TEST SITE AND INSTRUMENTS

#1:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

#2:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,24	Sep.01,25
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGRE N	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Sep.03, 24	Sep.02, 25
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25



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Test Report No.: W7L-P24100005RF08

Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 10,24	Aug. 09,25

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	POCO	
MODEL NAME	2410FPCC5G	
NOMINAL VOLTAGE	5/3.6~11Vdc(adapter or host equipment) 3.84Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz
	LTE Band 38 Channel Bandwidth: 5MHz	2572.5MHz ~ 2617.5MHz
	LTE Band 38 Channel Bandwidth: 10MHz	2575MHz ~ 2615MHz
	LTE Band 38 Channel Bandwidth: 15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band 38 Channel Bandwidth: 20MHz	2580MHz ~ 2610MHz
	LTE Band 41 Channel Bandwidth: 5MHz	2498.5MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz	2501MHz ~ 2685MHz
	LTE Band 41 Channel Bandwidth: 15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth: 20MHz	2506MHz ~ 2680MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz

	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz
MAX. EIRP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	184.08mW
	LTE Band 4 Channel Bandwidth: 3MHz	188.36mW
	LTE Band 4 Channel Bandwidth: 5MHz	186.64mW
	LTE Band 4 Channel Bandwidth: 10MHz	186.21mW
	LTE Band 4 Channel Bandwidth: 15MHz	186.21mW
	LTE Band 4 Channel Bandwidth: 20MHz	186.21mW
	LTE Band 38 Channel Bandwidth: 5MHz	223.87mW
	LTE Band 38 Channel Bandwidth: 10MHz	221.82mW
	LTE Band 38 Channel Bandwidth: 15MHz	223.36mW
	LTE Band 38 Channel Bandwidth: 20MHz	225.42mW
	LTE Band 41 Channel Bandwidth: 5MHz	220.8mW
	LTE Band 41 Channel Bandwidth: 10MHz	220.29mW
	LTE Band 41 Channel Bandwidth: 15MHz	217.27mW
	LTE Band 41 Channel Bandwidth: 20MHz	221.82mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	188.36mW
	LTE Band 66 Channel Bandwidth: 3MHz	186.64mW
	LTE Band 66 Channel Bandwidth: 5MHz	186.64mW
	LTE Band 66 Channel Bandwidth: 10MHz	185.35mW
	LTE Band 66 Channel Bandwidth: 15MHz	182.81mW



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Test Report No.: W7L-P24100005RF08

	LTE Band 66 Channel Bandwidth: 20MHz	188.8mW
EMISSION DESIGNATOR	LTE Band 41 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
		16QAM: 4M49W7D
	LTE Band 41 Channel Bandwidth: 10MHz	QPSK: 9M01G7D
		16QAM: 8M98W7D
	LTE Band 41 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 41 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 17M9W7D
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D
		16QAM: 1M10W7D
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK: 2M69G7D
		16QAM: 2M69W7D
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK: 4M54G7D
		16QAM: 4M52W7D
	LTE Band 66 Channel Bandwidth: 10MHz	QPSK: 9M03G7D
		16QAM: 9M04W7D
	LTE Band 66 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
	LTE Band 66 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
ANTENNA TYPE	ANT 0(UP): PIFA Antenna with -1.5dBi gain for LTE4 PIFA Antenna with -1dBi gain for LTE38 PIFA Antenna with -1dBi gain for LTE41 PIFA Antenna with -1.5dBi gain for LTE66 ANT 1(DOWN): PIFA Antenna with -1.5dBi gain for LTE4 PIFA Antenna with -0.5dBi gain for LTE38 PIFA Antenna with -0.5dBi gain for LTE41 PIFA Antenna with -1.5dBi gain for LTE66	
HW VERSION	135100C3N	
SW VERSION	Xiaomi HyperOS 1.0	
IMEI	864624070035805	



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I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable5: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable6: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable8: non-shielded cable, with w/o ferrite core, 1.0 meter
EXTREME TEMPERATURE	0-40 °C
EXTREME VOLTAGE	3.6V - 4.25V

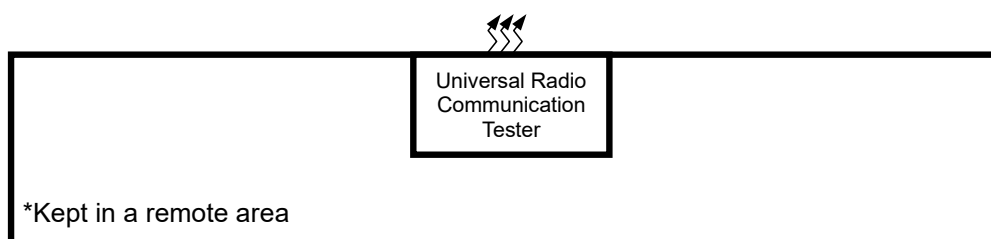
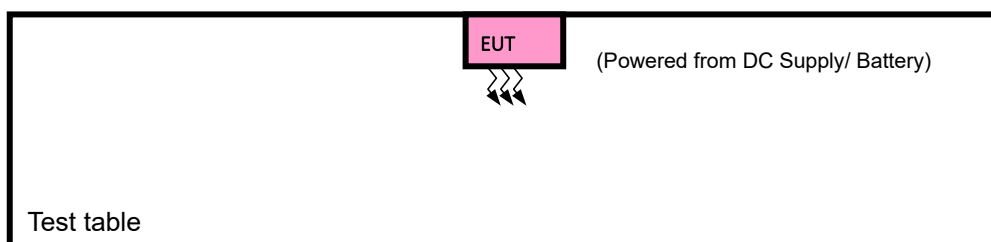
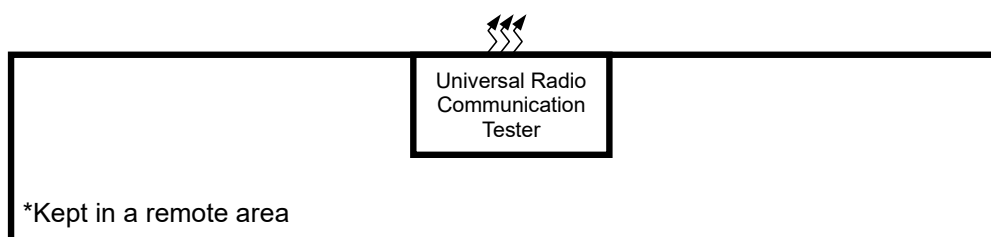
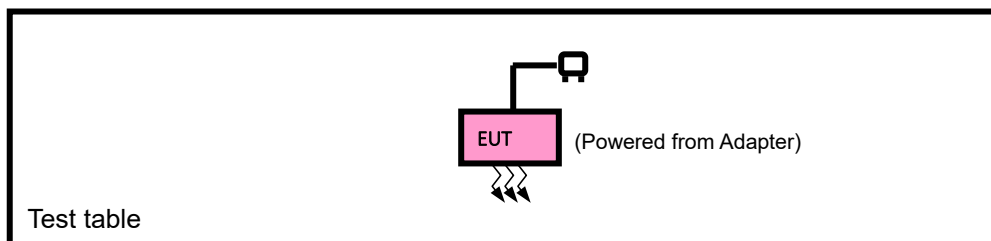
NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
LTE	2TX/2RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

2.4 TEST ITEM AND TEST CONFIGURATION

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 Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with LTE link
B	EUT + DC source with LTE link

LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	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. LTE Band 4 are covered by LTE Band 66, Because it is a subset of LTE Band 66 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 66

LTE BAND 38 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	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. LTE Band 38 are covered by LTE Band 41, Because it is a subset of LTE Band 41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 41

LTE BAND 41 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
A	BAND EDGE	39675 to 41565	39675	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			41565	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		39700 to 41540	39700	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
						1 RB / 49 RB Offset
			41540	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
						1 RB / 49 RB Offset

						50 RB / 0 RB Offset
		39725 to 41515	39725	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			41515	15MHz	QPSK, 16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
		39750 to 41490	39750	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						100 RB / 0 RB Offset
			41490	20MHz	QPSK, 16QAM	1 RB / 99 RB Offset
						100 RB / 0 RB Offset
A	CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	39675 to 41565	40620	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB / 0 RB Offset
		39725 to 41515	40620	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	40620	20MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND 66 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	132072 to 132572	132072,132322,132572	20MHz	QPSK	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			132322	1.4MHz	QPSK,16QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK,16QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			132657	3MHz	QPSK,16QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997	5MHz	QPSK,16QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			132647	5MHz	QPSK,16QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022	10MHz	QPSK,16QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			132622	10MHz	QPSK,16QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047	15MHz	QPSK,16QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			132597	15MHz	QPSK,16QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072	20MHz	QPSK,16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
			132572	20MHz	QPSK,16QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
A	CONDCUDED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK	1 RB / 0 RB Offset



**BUREAU
VERITAS**

Test Report No.: W7L-P24100005RF08

		131997 to 132647	131997,132322,132647	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset
		132022 to 132622	132322	10MHz	QPSK	1 RB / 0 RB Offset
		132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK	1 RB / 0 RB Offset

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



Test Report No.: W7L-P24100005RF08

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
FREQUENCY STABILITY	See Note	DC 3.6/3.84/4.4 By DC Source	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	James Fu



Test Report No.: W7L-P24100005RF08

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 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 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1-watt EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm).

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW.

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP).

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Ant 0(UP):

LTE Band 4

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz
4/ 1.4	QPSK	1	0	23.70	23.70	23.69
		1	2	23.88	23.91	23.91
		1	5	23.62	23.56	23.69
		3	0	23.78	23.73	23.75
		3	1	23.81	23.73	23.81
		3	3	23.74	23.83	23.80
		6	0	22.95	22.88	22.93
	16QAM	1	0	22.78	22.83	22.75
		1	2	23.20	23.29	23.19
		1	5	22.84	22.86	22.82
		3	0	22.75	22.67	22.78
		3	1	22.72	22.78	22.83
		3	3	22.75	22.80	22.80
		6	0	21.79	21.94	21.86
	64QAM	1	0	21.59	21.73	21.79
		1	2	22.14	22.14	22.20
		1	5	21.83	21.95	21.77
		3	0	21.59	21.67	21.74
		3	1	21.71	21.85	21.76
		3	3	21.68	21.75	21.69
		6	0	20.84	20.97	20.84

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz
4/ 3	QPSK	1	0	23.67	23.78	23.78
		1	7	23.80	23.90	23.97
		1	14	23.64	23.59	23.76
		8	0	22.89	22.96	22.92
		8	3	22.95	23.00	23.05
		8	7	22.90	23.02	22.96
		15	0	22.89	22.99	22.91
	16QAM	1	0	22.77	22.71	22.73
		1	7	23.13	23.17	23.19
		1	14	22.78	22.82	22.90
		8	0	21.81	21.90	21.95
		8	3	21.93	21.96	21.91
		8	7	21.89	21.95	21.97
		15	0	21.80	21.89	21.91
	64QAM	1	0	21.64	21.71	21.83
		1	7	22.15	22.10	22.19
		1	14	21.86	21.82	21.89
		8	0	20.81	20.90	20.89
		8	3	20.95	20.90	20.96
		8	7	20.96	20.92	20.88
		15	0	20.82	20.91	20.87

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz
4/ 5	QPSK	1	0	23.71	23.77	23.72
		1	12	23.79	23.97	23.98
		1	24	23.69	23.66	23.64
		12	0	22.87	22.86	22.98
		12	6	22.96	23.01	23.05
		12	13	22.98	22.97	22.97
		25	0	22.92	22.89	22.89
	16QAM	1	0	22.83	22.84	22.80
		1	12	23.21	23.21	23.23
		1	24	22.84	22.92	22.92
		12	0	21.93	21.84	21.94
		12	6	21.95	21.95	21.96
		12	13	21.91	22.03	21.88
		25	0	21.88	21.90	21.91
	64QAM	1	0	21.68	21.77	21.73
		1	12	22.18	22.11	22.15
		1	24	21.79	21.94	21.79
		12	0	20.88	20.90	20.84
		12	6	20.87	20.91	20.91
		12	13	20.87	20.90	20.92
		25	0	20.80	20.92	20.95

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz
4/ 10	QPSK	1	0	23.62	23.76	23.71
		1	24	23.79	24.00	24.01
		1	49	23.59	23.68	23.69
		25	0	22.84	22.87	22.98
		25	12	22.92	22.93	22.99
		25	25	22.96	22.91	22.94
		50	0	22.89	22.95	22.98
	16QAM	1	0	22.85	22.78	22.81
		1	24	23.11	23.19	23.23
		1	49	22.90	22.87	22.90
		25	0	21.85	21.88	21.90
		25	12	21.99	22.05	22.01
		25	25	21.87	21.93	21.88
		50	0	21.83	22.01	21.91
	64QAM	1	0	21.68	21.79	21.74
		1	24	22.11	22.13	22.20
		1	49	21.76	21.88	21.79
		25	0	20.86	20.86	20.86
		25	12	20.98	21.00	20.95
		25	25	20.85	20.96	20.92
		50	0	20.85	20.94	20.97

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz
4/ 15	QPSK	1	0	23.72	23.74	23.83
		1	37	23.81	23.92	23.92
		1	74	23.70	23.66	23.63
		36	0	22.96	22.99	22.86
		36	19	22.94	23.01	22.98
		36	39	22.87	22.95	22.96
		75	0	22.85	23.01	22.99
	16QAM	1	0	22.74	22.77	22.76
		1	37	23.11	23.20	23.24
		1	74	22.88	22.91	22.88
		36	0	21.94	21.89	21.95
		36	19	21.89	21.97	21.95
		36	39	21.87	21.99	21.99
		75	0	21.82	22.01	21.97
	64QAM	1	0	21.65	21.70	21.76
		1	37	22.21	22.18	22.26
		1	74	21.81	21.85	21.80
		36	0	20.86	20.89	20.88
		36	19	20.93	20.96	20.91
		36	39	20.95	21.02	20.96
		75	0	20.85	20.90	20.93

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz
4/ 20	QPSK	1	0	23.75	23.80	23.84
		1	50	23.94	24.02	24.05
		1	99	23.71	23.70	23.78
		50	0	22.98	23.00	23.01
		50	25	23.05	23.06	23.07
		50	50	23.01	23.03	23.04
		100	0	22.99	23.02	23.03
	16QAM	1	0	22.88	22.86	22.83
		1	50	23.23	23.30	23.34
		1	99	22.93	22.97	22.94
		50	0	21.95	21.99	21.99
		50	25	22.04	22.06	22.06
		50	50	22.01	22.05	22.02
		100	0	21.94	22.03	22.00
	64QAM	1	0	21.73	21.81	21.85
		1	50	22.25	22.25	22.27
		1	99	21.90	21.96	21.91
		50	0	20.92	20.96	20.94
		50	25	20.99	21.05	21.02
		50	50	20.97	21.03	20.97
		100	0	20.93	21.02	20.98

LTE Band 38

Band/BW	Modulation	RB Size	RB Offset	Low CH 37775	Mid CH 38000	High CH 38225
				Frequency 2572.5 MHz	Frequency 2595 MHz	Frequency 2617.5MHz
38/ 5	QPSK	1	0	23.19	23.13	23.13
		1	12	23.40	23.33	23.30
		1	24	23.18	23.13	23.08
		12	0	22.15	22.32	22.17
		12	6	22.28	22.23	22.12
		12	13	22.32	22.14	22.03
		25	0	22.31	22.33	22.18
	16QAM	1	0	22.10	22.23	22.21
		1	12	22.41	22.58	22.43
		1	24	22.19	22.24	22.08
		12	0	21.20	21.27	21.27
		12	6	21.38	21.37	21.26
		12	13	21.34	21.27	21.18
		25	0	21.22	21.31	21.24
	64QAM	1	0	21.07	21.09	21.09
		1	12	21.13	21.19	21.24
		1	24	21.07	21.10	21.05
		12	0	20.22	20.29	20.20
		12	6	20.24	20.24	20.19
		12	13	20.16	20.20	20.14
		25	0	20.31	20.22	20.10

Band/BW	Modulation	RB Size	RB Offset	Low CH 37800	Mid CH 38000	High CH 38200
				Frequency 2575 MHz	Frequency 2595 MHz	Frequency 2615 MHz
38/ 10	QPSK	1	0	23.13	23.10	23.14
		1	24	23.40	23.38	23.23
		1	49	23.20	23.12	23.01
		25	0	22.02	22.29	22.14
		25	12	22.20	22.22	22.25
		25	25	22.21	22.25	22.14
		50	0	22.24	22.24	22.12
	16QAM	1	0	22.07	22.25	22.14
		1	24	22.43	22.50	22.38
		1	49	22.06	22.34	22.10
		25	0	21.21	21.28	21.24
		25	12	21.40	21.43	21.21
		25	25	21.31	21.33	21.07
		50	0	21.23	21.30	21.24
	64QAM	1	0	21.17	21.01	21.19
		1	24	21.10	21.26	21.22
		1	49	21.10	21.09	21.01
		25	0	20.12	20.29	20.28
		25	12	20.24	20.35	20.22
		25	25	20.30	20.24	20.14
		50	0	20.25	20.22	20.11

Band/BW	Modulation	RB Size	RB Offset	Low CH 37825	Mid CH 38000	High CH 38175
				Frequency 2577.5 MHz	Frequency 2595 MHz	Frequency 2612.5MHz
38/ 15	QPSK	1	0	23.17	23.05	23.12
		1	37	23.30	23.46	23.33
		1	74	23.15	23.11	23.05
		36	0	22.10	22.25	22.20
		36	19	22.25	22.33	22.23
		36	39	22.26	22.15	22.14
		75	0	22.31	22.23	22.11
	16QAM	1	0	22.14	22.17	22.23
		1	37	22.41	22.49	22.41
		1	74	22.13	22.25	22.06
		36	0	21.23	21.40	21.30
		36	19	21.38	21.36	21.29
		36	39	21.34	21.28	21.21
		75	0	21.27	21.24	21.31
	64QAM	1	0	21.07	21.13	21.21
		1	37	21.18	21.31	21.14
		1	74	21.02	21.13	21.02
		36	0	20.25	20.21	20.16
		36	19	20.24	20.30	20.21
		36	39	20.19	20.24	20.04
		75	0	20.24	20.26	20.11

Band/BW	Modulation	RB Size	RB Offset	Low CH 37850	Mid CH 38000	High CH 38150
				Frequency 2580 MHz	Frequency 2595 MHz	Frequency 2610 MHz
38/ 20	QPSK	1	0	23.21	23.17	23.18
		1	50	23.41	23.48	23.37
		1	99	23.25	23.16	23.14
		50	0	22.17	22.35	22.25
		50	25	22.34	22.37	22.27
		50	50	22.33	22.27	22.16
		100	0	22.33	22.36	22.26
	16QAM	1	0	22.18	22.30	22.29
		1	50	22.56	22.60	22.44
		1	99	22.21	22.35	22.16
		50	0	21.33	21.42	21.39
		50	25	21.41	21.44	21.36
		50	50	21.40	21.36	21.22
		100	0	21.36	21.37	21.32
	64QAM	1	0	21.18	21.15	21.23
		1	50	21.21	21.33	21.29
		1	99	21.17	21.16	21.15
		50	0	20.26	20.36	20.30
		50	25	20.37	20.38	20.31
		50	50	20.31	20.28	20.16
		100	0	20.33	20.35	20.25



**BUREAU
VERITAS**

Test Report No.: W7L-P24100005RF08

LTE Band 41

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Mid CH (40620)	High CH (41565)
				Frequency (2498.5)MHz	Frequency (2593)MHz	Frequency (2687.5)MHz
41/ 5	QPSK	1	0	23.40	23.35	23.14
		1	12	23.69	23.69	23.57
		1	24	23.18	23.18	23.04
		12	0	22.54	22.50	22.35
		12	6	22.61	22.49	22.44
		12	13	22.47	22.49	22.41
		25	0	22.60	22.56	22.45
	16QAM	1	0	22.56	22.52	22.44
		1	12	22.65	22.75	22.77
		1	24	22.24	22.31	22.46
		12	0	21.55	21.54	21.51
		12	6	21.52	21.56	21.34
		12	13	21.62	21.60	21.44
		25	0	21.56	21.56	21.43
	64QAM	1	0	21.20	21.12	21.11
		1	12	21.34	21.26	21.17
		1	24	21.07	21.22	21.16
		12	0	20.53	20.51	20.35
		12	6	20.52	20.52	20.36
		12	13	20.56	20.56	20.34
		25	0	20.62	20.62	20.48

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Mid CH (40620)	High CH (41540)
				Frequency (2501)MHz	Frequency (2593)MHz	Frequency (2685)MHz
41/ 10	QPSK	1	0	23.50	23.33	23.06
		1	24	23.64	23.64	23.57
		1	49	23.23	23.19	23.05
		25	0	22.45	22.49	22.25
		25	12	22.51	22.49	22.49
		25	25	22.57	22.45	22.44
		50	0	22.64	22.61	22.46
	16QAM	1	0	22.52	22.44	22.38
		1	24	22.78	22.64	22.78
		1	49	22.35	22.31	22.39
		25	0	21.47	21.64	21.44
		25	12	21.64	21.59	21.37
		25	25	21.61	21.49	21.38
		50	0	21.56	21.65	21.44
	64QAM	1	0	21.27	21.16	21.12
		1	24	21.30	21.24	21.21
		1	49	21.09	21.12	21.07
		25	0	20.48	20.51	20.29
		25	12	20.61	20.47	20.39
		25	25	20.49	20.56	20.32
		50	0	20.58	20.55	20.43

Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Mid CH (40620)	High CH (41515)
				Frequency (2503.5)MHz	Frequency (2593)MHz	Frequency (2682.5)MHz
41/ 15	QPSK	1	0	23.46	23.39	23.11
		1	37	23.59	23.68	23.51
		1	74	23.14	23.27	23.17
		36	0	22.44	22.45	22.31
		36	19	22.57	22.57	22.40
		36	39	22.51	22.55	22.45
		75	0	22.52	22.63	22.53
	16QAM	1	0	22.52	22.54	22.39
		1	37	22.70	22.65	22.84
		1	74	22.32	22.34	22.38
		36	0	21.53	21.51	21.43
		36	19	21.64	21.56	21.36
		36	39	21.65	21.54	21.35
		75	0	21.57	21.54	21.38
	64QAM	1	0	21.16	21.07	21.08
		1	37	21.29	21.27	21.18
		1	74	21.07	21.21	21.10
		36	0	20.44	20.55	20.34
		36	19	20.61	20.48	20.31
		36	39	20.50	20.56	20.40
		75	0	20.63	20.61	20.35

Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Mid CH (40620)	High CH (41490)
				Frequency (2506)MHz	Frequency (2593)MHz	Frequency (2680)MHz
41/ 20	QPSK	1	0	23.52	23.43	23.20
		1	50	23.73	23.70	23.62
		1	99	23.26	23.32	23.19
		50	0	22.56	22.59	22.39
		50	25	22.62	22.61	22.52
		50	50	22.61	22.60	22.46
		100	0	22.66	22.64	22.57
	16QAM	1	0	22.60	22.55	22.53
		1	50	22.80	22.79	22.89
		1	99	22.37	22.35	22.52
		50	0	21.59	21.65	21.56
		50	25	21.65	21.67	21.49
		50	50	21.69	21.62	21.48
		100	0	21.70	21.66	21.51
	64QAM	1	0	21.31	21.21	21.22
		1	50	21.44	21.34	21.27
		1	99	21.22	21.24	21.19
		50	0	20.56	20.61	20.37
		50	25	20.64	20.59	20.42
		50	50	20.63	20.58	20.43
		100	0	20.65	20.63	20.50

LTE Band 66

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979	Mid CH 132322	High CH 132665
				Frequency 1710.7MHz	Frequency 1745MHz	Frequency 1779.3MHz
66/ 1.4	QPSK	1	0	23.69	23.71	23.52
		1	2	23.96	24.01	23.93
		1	5	23.63	23.67	23.59
		3	0	23.79	23.84	23.85
		3	1	23.92	23.94	23.87
		3	3	23.89	23.84	23.72
		6	0	23.02	23.03	23.01
	16QAM	1	0	22.92	22.89	22.95
		1	2	23.20	23.23	23.33
		1	5	22.95	22.97	22.95
		3	0	22.68	22.81	22.81
		3	1	22.89	22.92	22.78
		3	3	22.79	22.78	22.64
		6	0	21.92	21.93	21.87
	64QAM	1	0	21.84	21.81	21.78
		1	2	22.08	22.17	22.27
		1	5	21.92	21.94	21.96
		3	0	21.69	21.75	21.74
		3	1	21.83	21.77	21.81
		3	3	21.72	21.74	21.57
		6	0	20.87	21.02	20.87

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987	Mid CH 132322	High CH 132657
				Frequency 1711.5MHz	Frequency 1745MHz	Frequency 1778.5MHz
66/ 3	QPSK	1	0	23.86	23.86	23.83
		1	7	24.21	24.15	23.79
		1	14	23.82	23.67	23.76
		8	0	23.06	22.90	22.99
		8	3	23.03	22.97	22.85
		8	7	23.17	22.97	22.87
		15	0	22.96	23.04	22.87
	16QAM	1	0	22.64	22.69	22.68
		1	7	23.03	22.95	22.71
		1	14	22.60	22.58	22.59
		8	0	22.03	21.85	21.89
		8	3	21.90	21.95	21.93
		8	7	21.95	22.10	21.89
		15	0	22.05	21.95	21.99
	64QAM	1	0	21.65	21.78	21.65
		1	7	22.05	22.00	22.06
		1	14	21.59	21.61	21.70
		8	0	20.94	20.86	20.78
		8	3	20.87	20.89	20.92
		8	7	21.05	20.81	20.80
		15	0	20.96	20.90	20.84

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997	Mid CH 132322	High CH 132647
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
66/ 5	QPSK	1	0	23.80	23.85	23.78
		1	12	24.17	24.14	23.82
		1	24	23.93	23.62	23.77
		12	0	22.97	22.87	22.90
		12	6	22.96	22.97	22.88
		12	13	23.09	23.08	22.91
		25	0	22.91	22.99	22.91
	16QAM	1	0	22.75	22.67	22.66
		1	12	22.93	22.84	22.76
		1	24	22.62	22.61	22.56
		12	0	22.01	21.82	21.83
		12	6	21.85	21.97	22.04
		12	13	22.00	22.12	21.78
		25	0	22.07	21.88	22.02
	64QAM	1	0	21.70	21.65	21.61
		1	12	21.97	22.00	22.05
		1	24	21.64	21.62	21.76
		12	0	20.91	20.87	20.73
		12	6	20.84	20.93	20.91
		12	13	21.09	20.79	20.84
		25	0	20.90	20.86	20.83

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022	Mid CH 132322	High CH 132622
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
66/ 10	QPSK	1	0	23.85	23.83	23.80
		1	24	24.17	24.03	23.85
		1	49	23.87	23.64	23.75
		25	0	22.99	22.95	23.02
		25	12	23.03	23.01	22.81
		25	25	23.16	22.99	22.85
		50	0	22.92	23.07	22.91
	16QAM	1	0	22.68	22.70	22.60
		1	24	22.97	22.93	22.79
		1	49	22.59	22.54	22.54
		25	0	21.95	21.83	21.81
		25	12	21.94	21.90	21.94
		25	25	21.88	22.01	21.80
		50	0	22.01	21.94	22.01
	64QAM	1	0	21.75	21.74	21.52
		1	24	22.01	21.92	22.07
		1	49	21.63	21.72	21.64
		25	0	20.93	20.87	20.76
		25	12	20.83	20.94	20.94
		25	25	21.08	20.79	20.91
		50	0	20.87	20.95	20.81

Band/BW	Modulation	RB Size	RB Offset	Low CH 132047	Mid CH 132322	High CH 132597
				Frequency 1717.5 MHz	Frequency 1745MHz	Frequency 1772.5 MHz
66/ 15	QPSK	1	0	23.83	23.87	23.79
		1	37	24.11	24.11	23.82
		1	74	23.83	23.74	23.81
		36	0	22.96	22.98	22.98
		36	19	23.07	22.96	22.88
		36	39	23.08	23.03	22.84
		75	0	22.98	23.05	22.93
	16QAM	1	0	22.69	22.74	22.66
		1	37	22.98	22.91	22.73
		1	74	22.62	22.59	22.56
		36	0	21.96	21.81	21.84
		36	19	21.90	21.89	21.91
		36	39	21.87	22.09	21.88
		75	0	22.06	21.86	22.03
	64QAM	1	0	21.75	21.66	21.65
		1	37	21.99	21.88	22.15
		1	74	21.71	21.65	21.70
		36	0	20.80	20.79	20.72
		36	19	20.92	20.82	20.86
		36	39	21.02	20.88	20.88
		75	0	21.00	20.92	20.84

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
66/ 20	QPSK	1	0	23.83	23.82	23.77
		1	50	24.04	24.08	24.01
		1	99	23.78	23.75	23.70
		50	0	23.06	23.09	23.11
		50	25	23.15	23.16	23.12
		50	50	23.14	23.12	22.95
		100	0	23.09	23.10	23.04
	16QAM	1	0	23.04	22.95	22.99
		1	50	23.35	23.36	23.39
		1	99	23.08	23.06	22.97
		50	0	22.02	22.08	22.11
		50	25	22.15	22.14	22.12
		50	50	22.08	22.10	21.97
		100	0	22.07	22.07	21.99
	64QAM	1	0	21.92	21.86	21.86
		1	50	22.22	22.32	22.28
		1	99	22.04	21.98	22.00
		50	0	20.97	21.04	21.05
		50	25	21.07	21.12	21.04
		50	50	21.05	21.06	20.90
		100	0	21.02	21.03	20.99

Ant 1(DOWN):

LTE Band 4

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz
4/ 1.4	QPSK	1	0	23.69	23.56	23.74
		1	2	24.01	24.05	24.15
		1	5	23.81	23.65	23.77
		3	0	23.96	23.95	23.89
		3	1	24.07	24.05	24.01
		3	3	24.06	24.04	23.91
		6	0	23.15	23.08	23.16
	16QAM	1	0	23.05	23.04	23.10
		1	2	23.33	23.45	23.43
		1	5	23.08	23.17	23.04
		3	0	22.91	22.89	22.91
		3	1	22.93	22.96	22.93
		3	3	23.03	23.04	22.89
		6	0	22.10	22.14	22.20
	64QAM	1	0	21.97	21.95	22.01
		1	2	22.29	22.39	22.29
		1	5	21.94	22.00	22.06
		3	0	21.87	21.92	21.94
		3	1	22.00	22.05	21.95
		3	3	21.86	22.03	21.95
		6	0	21.08	21.16	21.24

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz
4/ 3	QPSK	1	0	23.88	23.79	23.82
		1	7	24.25	24.13	23.86
		1	14	23.90	23.64	23.72
		8	0	23.10	22.95	23.01
		8	3	22.99	22.87	22.88
		8	7	23.09	23.03	22.94
		15	0	23.02	22.98	22.84
	16QAM	1	0	22.68	22.80	22.58
		1	7	22.94	22.82	22.71
		1	14	22.58	22.67	22.49
		8	0	22.00	21.87	21.94
		8	3	21.86	21.83	21.93
		8	7	22.00	22.10	21.85
		15	0	22.05	21.94	22.04
	64QAM	1	0	21.62	21.78	21.65
		1	7	21.99	21.98	22.09
		1	14	21.73	21.70	21.71
		8	0	20.80	20.84	20.76
		8	3	20.83	20.82	20.89
		8	7	20.98	20.84	20.89
		15	0	20.86	20.97	20.80

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz
4/ 5	QPSK	1	0	23.88	23.80	23.82
		1	12	24.21	24.06	23.92
		1	24	23.93	23.76	23.79
		12	0	23.03	22.85	22.99
		12	6	23.06	22.95	22.86
		12	13	23.09	23.09	22.84
		25	0	22.97	23.04	22.83
	16QAM	1	0	22.74	22.70	22.70
		1	12	22.94	22.84	22.72
		1	24	22.68	22.66	22.58
		12	0	22.03	21.91	21.84
		12	6	21.87	21.94	21.91
		12	13	21.90	21.98	21.82
		25	0	22.09	21.86	21.94
	64QAM	1	0	21.63	21.70	21.55
		1	12	21.99	21.95	22.15
		1	24	21.70	21.60	21.68
		12	0	20.83	20.82	20.73
		12	6	20.82	20.88	20.88
		12	13	21.02	20.86	20.92
		25	0	21.00	20.98	20.86

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz
4/ 10	QPSK	1	0	23.82	23.90	23.83
		1	24	24.20	24.04	23.82
		1	49	23.89	23.75	23.76
		25	0	23.06	22.88	22.90
		25	12	23.03	22.95	22.88
		25	25	23.16	23.02	22.93
		50	0	22.96	23.08	22.94
	16QAM	1	0	22.67	22.79	22.59
		1	24	22.91	22.90	22.82
		1	49	22.61	22.64	22.62
		25	0	21.98	21.90	21.85
		25	12	21.89	21.95	21.95
		25	25	21.97	21.98	21.88
		50	0	22.05	21.88	21.94
	64QAM	1	0	21.73	21.68	21.62
		1	24	22.08	21.99	22.09
		1	49	21.71	21.71	21.71
		25	0	20.80	20.88	20.75
		25	12	20.94	20.87	20.85
		25	25	20.97	20.88	20.83
		50	0	20.92	20.98	20.79

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz
4/ 15	QPSK	1	0	23.88	23.86	23.71
		1	37	24.20	24.12	23.93
		1	74	23.90	23.62	23.68
		36	0	22.98	22.90	22.89
		36	19	23.04	22.87	22.82
		36	39	23.18	23.03	22.91
		75	0	23.00	23.00	22.94
	16QAM	1	0	22.77	22.76	22.61
		1	37	22.91	22.91	22.74
		1	74	22.67	22.55	22.50
		36	0	21.99	21.88	21.81
		36	19	21.82	21.92	21.90
		36	39	21.99	22.03	21.78
		75	0	22.10	21.89	21.97
	64QAM	1	0	21.66	21.75	21.58
		1	37	22.01	21.97	22.13
		1	74	21.72	21.72	21.74
		36	0	20.90	20.76	20.83
		36	19	20.91	20.92	20.90
		36	39	20.99	20.84	20.90
		75	0	20.90	20.92	20.77

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz
4/ 20	QPSK	1	0	23.78	23.68	23.79
		1	50	24.11	24.15	24.20
		1	99	23.90	23.80	23.78
		50	0	23.23	23.18	23.21
		50	25	23.27	23.26	23.29
		50	50	23.26	23.23	23.20
		100	0	23.21	23.22	23.23
	16QAM	1	0	23.06	23.12	23.15
		1	50	23.44	23.47	23.48
		1	99	23.21	23.19	23.12
		50	0	22.22	22.18	22.22
		50	25	22.25	22.26	22.26
		50	50	22.24	22.24	22.21
		100	0	22.17	22.21	22.22
	64QAM	1	0	21.98	22.06	22.08
		1	50	22.36	22.44	22.43
		1	99	22.07	22.13	22.09
		50	0	21.13	21.17	21.18
		50	25	21.22	21.24	21.22
		50	50	21.18	21.23	21.19
		100	0	21.14	21.20	21.27

LTE Band 38

Band/BW	Modulation	RB Size	RB Offset	Low CH 37775	Mid CH 38000	High CH 38225
				Frequency 2572.5 MHz	Frequency 2595 MHz	Frequency 2617.5MHz
38/ 5	QPSK	1	0	23.71	23.70	23.70
		1	12	24.00	23.90	23.86
		1	24	23.66	23.67	23.73
		12	0	22.74	22.88	22.91
		12	6	22.80	22.86	22.86
		12	13	22.68	22.74	22.72
		25	0	22.84	22.85	22.93
	16QAM	1	0	22.64	22.75	22.66
		1	12	23.04	22.99	22.97
		1	24	22.59	22.58	22.57
		12	0	21.89	21.87	21.99
		12	6	21.92	21.92	21.87
		12	13	21.77	21.81	21.70
		25	0	21.83	21.87	21.93
	64QAM	1	0	21.64	21.64	21.64
		1	12	21.75	21.70	21.74
		1	24	21.51	21.55	21.63
		12	0	20.81	20.90	20.94
		12	6	20.75	20.95	20.87
		12	13	20.70	20.76	20.66
		25	0	20.72	20.90	20.91

Band/BW	Modulation	RB Size	RB Offset	Low CH 37800	Mid CH 38000	High CH 38200
				Frequency 2575 MHz	Frequency 2595 MHz	Frequency 2615 MHz
38/ 10	QPSK	1	0	23.62	23.81	23.69
		1	24	23.93	23.92	23.96
		1	49	23.72	23.70	23.73
		25	0	22.79	22.93	22.89
		25	12	22.69	22.94	22.80
		25	25	22.73	22.75	22.75
		50	0	22.90	22.84	22.85
	16QAM	1	0	22.66	22.70	22.69
		1	24	22.94	23.06	23.03
		1	49	22.57	22.66	22.56
		25	0	21.75	21.87	21.90
		25	12	21.80	21.95	21.88
		25	25	21.81	21.73	21.72
		50	0	21.87	21.90	21.88
	64QAM	1	0	21.65	21.69	21.60
		1	24	21.67	21.77	21.75
		1	49	21.52	21.65	21.68
		25	0	20.68	20.82	20.94
		25	12	20.82	20.82	20.82
		25	25	20.83	20.71	20.76
		50	0	20.76	20.78	20.93

Band/BW	Modulation	RB Size	RB Offset	Low CH 37825	Mid CH 38000	High CH 38175
				Frequency 2577.5 MHz	Frequency 2595 MHz	Frequency 2612.5MHz
38/ 15	QPSK	1	0	23.69	23.76	23.70
		1	37	23.99	23.99	23.91
		1	74	23.60	23.73	23.73
		36	0	22.75	22.81	22.85
		36	19	22.82	22.84	22.81
		36	39	22.74	22.73	22.75
		75	0	22.92	22.84	22.81
	16QAM	1	0	22.63	22.75	22.70
		1	37	22.98	22.95	23.08
		1	74	22.68	22.60	22.66
		36	0	21.75	21.89	21.99
		36	19	21.92	21.95	21.90
		36	39	21.84	21.82	21.82
		75	0	21.87	21.89	21.94
	64QAM	1	0	21.65	21.77	21.67
		1	37	21.64	21.66	21.76
		1	74	21.53	21.56	21.62
		36	0	20.79	20.94	20.96
		36	19	20.85	20.82	20.92
		36	39	20.75	20.78	20.73
		75	0	20.72	20.90	20.91

Band/BW	Modulation	RB Size	RB Offset	Low CH 37850	Mid CH 38000	High CH 38150
				Frequency 2580 MHz	Frequency 2595 MHz	Frequency 2610 MHz
38/ 20	QPSK	1	0	23.72	23.85	23.84
		1	50	23.97	24.03	24.01
		1	99	23.75	23.76	23.80
		50	0	22.82	22.94	22.93
		50	25	22.84	22.96	22.94
		50	50	22.81	22.82	22.81
		100	0	22.93	22.95	22.94
	16QAM	1	0	22.76	22.79	22.81
		1	50	23.07	23.09	23.11
		1	99	22.72	22.69	22.71
		50	0	21.90	21.96	22.03
		50	25	21.94	21.99	21.98
		50	50	21.91	21.88	21.85
		100	0	21.93	21.97	21.97
	64QAM	1	0	21.73	21.79	21.68
		1	50	21.79	21.80	21.83
		1	99	21.66	21.69	21.73
		50	0	20.82	20.95	20.97
		50	25	20.88	20.96	20.96
		50	50	20.84	20.82	20.78
		100	0	20.84	20.91	20.95



**BUREAU
VERITAS**

Test Report No.: W7L-P24100005RF08

LTE Band 41

Band/BW	Modulation	RB Size	RB Offset	Low CH (39675)	Mid CH (40620)	High CH (41565)
				Frequency (2498.5)MHz	Frequency (2593)MHz	Frequency (2687.5)MHz
41/ 5	QPSK	1	0	23.59	23.51	23.25
		1	12	23.94	23.91	23.38
		1	24	23.49	23.51	23.35
		12	0	22.64	22.67	22.53
		12	6	22.84	22.68	22.53
		12	13	22.70	22.61	22.51
		25	0	22.75	22.71	22.66
	16QAM	1	0	22.62	22.70	22.20
		1	12	22.90	22.93	22.44
		1	24	22.61	22.55	22.48
		12	0	21.79	21.83	21.62
		12	6	21.80	21.80	21.68
		12	13	21.80	21.71	21.63
		25	0	21.80	21.77	21.73
	64QAM	1	0	21.24	21.28	21.27
		1	12	21.56	21.48	21.49
		1	24	21.21	21.09	21.09
		12	0	20.71	20.73	20.62
		12	6	20.76	20.78	20.67
		12	13	20.65	20.80	20.55
		25	0	20.78	20.82	20.66

Band/BW	Modulation	RB Size	RB Offset	Low CH (39700)	Mid CH (40620)	High CH (41540)
				Frequency (2501)MHz	Frequency (2593)MHz	Frequency (2685)MHz
41/ 10	QPSK	1	0	23.67	23.49	23.30
		1	24	23.93	23.85	23.40
		1	49	23.51	23.56	23.35
		25	0	22.69	22.74	22.55
		25	12	22.82	22.67	22.53
		25	25	22.70	22.71	22.61
		50	0	22.82	22.79	22.75
	16QAM	1	0	22.69	22.60	22.23
		1	24	22.89	22.97	22.48
		1	49	22.49	22.57	22.45
		25	0	21.71	21.82	21.58
		25	12	21.82	21.83	21.72
		25	25	21.83	21.74	21.69
		50	0	21.88	21.77	21.72
	64QAM	1	0	21.28	21.30	21.29
		1	24	21.54	21.48	21.49
		1	49	21.11	21.16	21.08
		25	0	20.73	20.81	20.64
		25	12	20.75	20.87	20.56
		25	25	20.67	20.74	20.62
		50	0	20.75	20.81	20.69

Band/BW	Modulation	RB Size	RB Offset	Low CH (39725)	Mid CH (40620)	High CH (41515)
				Frequency (2503.5)MHz	Frequency (2593)MHz	Frequency (2682.5)MHz
41/ 15	QPSK	1	0	23.55	23.50	23.23
		1	37	23.84	23.83	23.38
		1	74	23.45	23.46	23.40
		36	0	22.64	22.67	22.51
		36	19	22.80	22.70	22.60
		36	39	22.68	22.73	22.57
		75	0	22.87	22.71	22.64
	16QAM	1	0	22.72	22.64	22.14
		1	37	22.93	23.01	22.44
		1	74	22.62	22.55	22.37
		36	0	21.81	21.83	21.65
		36	19	21.85	21.79	21.64
		36	39	21.73	21.79	21.70
		75	0	21.87	21.83	21.69
	64QAM	1	0	21.20	21.31	21.15
		1	37	21.57	21.56	21.49
		1	74	21.19	21.17	21.19
		36	0	20.73	20.73	20.60
		36	19	20.77	20.80	20.70
		36	39	20.69	20.69	20.56
		75	0	20.75	20.80	20.60

Band/BW	Modulation	RB Size	RB Offset	Low CH (39750)	Mid CH (40620)	High CH (41490)
				Frequency (2506)MHz	Frequency (2593)MHz	Frequency (2680)MHz
41/ 20	QPSK	1	0	23.70	23.64	23.34
		1	50	23.96	23.94	23.49
		1	99	23.56	23.58	23.44
		50	0	22.79	22.79	22.65
		50	25	22.86	22.81	22.67
		50	50	22.82	22.76	22.66
		100	0	22.89	22.86	22.77
	16QAM	1	0	22.75	22.75	22.29
		1	50	22.99	23.02	22.54
		1	99	22.64	22.66	22.51
		50	0	21.84	21.90	21.70
		50	25	21.88	21.92	21.77
		50	50	21.88	21.85	21.76
		100	0	21.93	21.90	21.75
	64QAM	1	0	21.35	21.34	21.30
		1	50	21.62	21.57	21.50
		1	99	21.23	21.22	21.22
		50	0	20.77	20.85	20.67
		50	25	20.84	20.88	20.71
		50	50	20.79	20.81	20.67
		100	0	20.88	20.90	20.74

LTE Band 66

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979	Mid CH 132322	High CH 132665
				Frequency 1710.7MHz	Frequency 1745MHz	Frequency 1779.3MHz
66/ 1.4	QPSK	1	0	23.82	23.84	23.77
		1	2	24.17	24.25	24.12
		1	5	23.79	23.74	23.75
		3	0	23.93	23.91	23.91
		3	1	24.03	24.01	24.00
		3	3	24.05	23.93	23.78
		6	0	23.09	23.24	23.09
	16QAM	1	0	22.98	23.09	22.93
		1	2	23.30	23.22	23.26
		1	5	23.25	23.04	23.20
		3	0	23.01	22.89	22.90
		3	1	23.00	22.87	22.95
		3	3	22.91	22.93	22.77
		6	0	22.12	22.04	22.14
	64QAM	1	0	22.03	22.08	22.03
		1	2	22.35	22.30	22.32
		1	5	21.89	22.09	22.06
		3	0	21.89	21.92	21.82
		3	1	21.96	22.03	21.94
		3	3	22.03	21.94	21.74
		6	0	21.20	21.21	21.01

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987	Mid CH 132322	High CH 132657
				Frequency 1711.5MHz	Frequency 1745MHz	Frequency 1778.5MHz
66/ 3	QPSK	1	0	23.88	23.89	23.71
		1	7	24.15	24.08	23.90
		1	14	23.84	23.71	23.73
		8	0	22.98	22.86	22.92
		8	3	23.00	23.00	22.94
		8	7	23.15	23.06	22.84
		15	0	22.88	23.04	22.95
	16QAM	1	0	22.64	22.77	22.71
		1	7	23.00	22.89	22.81
		1	14	22.68	22.55	22.56
		8	0	22.03	21.84	21.93
		8	3	21.87	21.90	21.96
		8	7	21.95	22.06	21.79
		15	0	22.07	21.82	21.95
	64QAM	1	0	21.65	21.73	21.58
		1	7	22.09	21.99	22.13
		1	14	21.59	21.65	21.64
		8	0	20.83	20.90	20.85
		8	3	20.89	20.86	20.93
		8	7	21.05	20.77	20.80
		15	0	20.95	20.91	20.78

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997	Mid CH 132322	High CH 132647
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
66/ 5	QPSK	1	0	23.77	23.84	23.85
		1	12	24.21	24.05	23.90
		1	24	23.80	23.73	23.69
		12	0	23.00	22.97	22.91
		12	6	23.05	22.89	22.91
		12	13	23.10	22.97	22.85
		25	0	22.99	23.10	22.88
	16QAM	1	0	22.76	22.72	22.57
		1	12	22.98	22.92	22.78
		1	24	22.62	22.60	22.54
		12	0	21.92	21.88	21.81
		12	6	21.86	21.92	21.94
		12	13	21.91	22.01	21.91
		25	0	22.02	21.82	21.98
	64QAM	1	0	21.65	21.67	21.60
		1	12	21.95	21.96	22.11
		1	24	21.60	21.73	21.70
		12	0	20.83	20.83	20.72
		12	6	20.93	20.89	20.91
		12	13	20.96	20.79	20.83
		25	0	20.94	20.97	20.89

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022	Mid CH 132322	High CH 132622
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
66/ 10	QPSK	1	0	23.86	23.87	23.73
		1	24	24.18	24.14	23.90
		1	49	23.83	23.68	23.72
		25	0	23.05	22.85	23.00
		25	12	23.04	22.97	22.87
		25	25	23.18	23.02	22.84
		50	0	22.99	23.02	22.89
	16QAM	1	0	22.69	22.67	22.63
		1	24	22.92	22.93	22.83
		1	49	22.68	22.58	22.54
		25	0	21.95	21.80	21.93
		25	12	21.84	21.84	21.90
		25	25	21.98	22.03	21.91
		50	0	22.05	21.90	22.05
	64QAM	1	0	21.64	21.79	21.57
		1	24	21.96	21.87	22.12
		1	49	21.61	21.64	21.67
		25	0	20.84	20.89	20.75
		25	12	20.91	20.94	20.81
		25	25	21.01	20.85	20.82
		50	0	20.98	20.94	20.86

Band/BW	Modulation	RB Size	RB Offset	Low CH 132047	Mid CH 132322	High CH 132597
				Frequency 1717.5 MHz	Frequency 1745MHz	Frequency 1772.5 MHz
66/ 15	QPSK	1	0	23.87	23.83	23.72
		1	37	24.12	24.10	23.84
		1	74	23.85	23.64	23.70
		36	0	23.06	22.87	22.94
		36	19	22.93	23.00	22.83
		36	39	23.14	23.04	22.95
		75	0	23.01	23.03	22.87
	16QAM	1	0	22.64	22.72	22.70
		1	37	22.92	22.85	22.75
		1	74	22.63	22.64	22.60
		36	0	22.03	21.80	21.92
		36	19	21.88	21.85	21.96
		36	39	21.92	22.06	21.83
		75	0	21.97	21.94	21.95
	64QAM	1	0	21.70	21.77	21.61
		1	37	22.00	21.98	22.06
		1	74	21.59	21.64	21.67
		36	0	20.89	20.86	20.78
		36	19	20.94	20.92	20.89
		36	39	21.07	20.83	20.91
		75	0	20.97	20.87	20.86

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
66/ 20	QPSK	1	0	23.87	23.88	23.78
		1	50	24.24	24.26	24.22
		1	99	23.88	23.89	23.86
		50	0	23.25	23.24	23.25
		50	25	23.28	23.29	23.26
		50	50	23.27	23.19	23.13
		100	0	23.21	23.28	23.16
	16QAM	1	0	23.07	23.17	23.08
		1	50	23.34	23.35	23.32
		1	99	23.31	23.05	23.23
		50	0	22.22	22.24	22.24
		50	25	22.27	22.19	22.23
		50	50	22.26	22.20	22.12
		100	0	22.24	22.19	22.15
	64QAM	1	0	22.14	22.10	22.05
		1	50	22.44	22.45	22.41
		1	99	22.02	22.12	22.10
		50	0	21.16	21.19	21.13
		50	25	21.20	21.27	21.22
		50	50	21.26	21.22	21.09
		100	0	21.23	21.26	21.14

EIRP

Ant 0(UP):

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.88	-1.5	22.38	172.98	1
20175	1732.5	23.91	-1.5	22.41	174.18	1
20393	1754.3	23.91	-1.5	22.41	174.18	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.2	-1.5	21.7	147.91	1
20175	1732.5	23.29	-1.5	21.79	151.01	1
20393	1754.3	23.19	-1.5	21.69	147.57	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.14	-1.5	20.64	115.88	1
20175	1732.5	22.14	-1.5	20.64	115.88	1
20393	1754.3	22.2	-1.5	20.7	117.49	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.8	-1.5	22.3	169.82	1
20175	1732.5	23.9	-1.5	22.4	173.78	1
20385	1753.5	23.97	-1.5	22.47	176.6	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.13	-1.5	21.63	145.55	1
20175	1732.5	23.13	-1.5	21.63	145.55	1
20385	1753.5	22.78	-1.5	21.28	134.28	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.15	-1.5	20.65	116.14	1
20175	1732.5	22.1	-1.5	20.6	114.82	1
20385	1753.5	22.19	-1.5	20.69	117.22	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.79	-1.5	22.29	169.43	1
20175	1732.5	23.97	-1.5	22.47	176.6	1
20375	1752.5	23.98	-1.5	22.48	177.01	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.21	-1.5	21.71	148.25	1
20175	1732.5	23.21	-1.5	21.71	148.25	1
20375	1752.5	23.23	-1.5	21.73	148.94	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.18	-1.5	20.68	116.95	1
20175	1732.5	22.11	-1.5	20.61	115.08	1
20375	1752.5	22.15	-1.5	20.65	116.14	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.79	-1.5	22.29	169.43	1
20175	1732.5	24	-1.5	22.5	177.83	1
20350	1750	24.01	-1.5	22.51	178.24	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.11	-1.5	21.61	144.88	1
20175	1732.5	23.19	-1.5	21.69	147.57	1
20350	1750	23.23	-1.5	21.73	148.94	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.11	-1.5	20.61	115.08	1
20175	1732.5	22.13	-1.5	20.63	115.61	1
20350	1750	22.2	-1.5	20.7	117.49	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.81	-1.5	22.31	170.22	1
20175	1732.5	23.92	-1.5	22.42	174.58	1
20325	1747.5	23.92	-1.5	22.42	174.58	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.11	-1.5	21.61	144.88	1
20175	1732.5	23.2	-1.5	21.7	147.91	1
20325	1747.5	23.24	-1.5	21.74	149.28	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.21	-1.5	20.71	117.76	1
20175	1732.5	22.18	-1.5	20.68	116.95	1
20325	1747.5	22.26	-1.5	20.76	119.12	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.94	-1.5	22.44	175.39	1
20175	1732.5	24.02	-1.5	22.52	178.65	1
20300	1745	24.05	-1.5	22.55	179.89	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.23	-1.5	21.73	148.94	1
20175	1732.5	23.3	-1.5	21.8	151.36	1
20300	1745	23.34	-1.5	21.84	152.76	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.25	-1.5	20.75	118.85	1
20175	1732.5	22.25	-1.5	20.75	118.85	1
20300	1745	22.27	-1.5	20.77	119.4	1

LTE BAND 38

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	23.4	-1	22.4	173.78	2
38000	2595.0	23.33	-1	22.33	171	2
38225	2617.5	23.3	-1	22.3	169.82	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	22.41	-1	21.41	138.36	2
38000	2595.0	22.58	-1	21.58	143.88	2
38225	2617.5	22.43	-1	21.43	139	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	21.13	-1	20.13	103.04	2
38000	2595	21.19	-1	20.19	104.47	2
38225	2617.5	21.24	-1	20.24	105.68	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	23.4	-1	22.4	173.78	2
38000	2595.0	23.38	-1	22.38	172.98	2
38200	2615.0	23.23	-1	22.23	167.11	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	22.43	-1	21.43	139	2
38000	2595.0	22.5	-1	21.5	141.25	2
38200	2615.0	22.38	-1	21.38	137.4	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575	21.17	-1	20.17	103.99	2
38000	2595	21.26	-1	20.26	106.17	2
38200	2615	21.22	-1	20.22	105.2	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	23.3	-1	22.3	169.82	2
38000	2595.0	23.46	-1	22.46	176.2	2
38175	2612.5	23.33	-1	22.33	171	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	22.41	-1	21.41	138.36	2
38000	2595.0	22.49	-1	21.49	140.93	2
38175	2612.5	22.41	-1	21.41	138.36	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	21.18	-1	20.18	104.23	2
38000	2595	21.31	-1	20.31	107.4	2
38175	2612.5	21.21	-1	20.21	104.95	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	23.41	-1	22.41	174.18	2
38000	2595.0	23.48	-1	22.48	177.01	2
38150	2610.0	23.37	-1	22.37	172.58	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	22.56	-1	21.56	143.22	2
38000	2595.0	22.6	-1	21.6	144.54	2
38150	2610.0	22.44	-1	21.44	139.32	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580	21.21	-1	20.21	104.95	2
38000	2595	21.33	-1	20.33	107.89	2
38150	2610	21.29	-1	20.29	106.91	2



**BUREAU
VERITAS**

Test Report No.: W7L-P24100005RF08

LTE BAND 41

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	23.69	-1	22.69	185.78	2
40620	2593.0	23.69	-1	22.69	185.78	2
41565	2687.5	23.57	-1	22.57	180.72	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	22.65	-1	21.65	146.22	2
40620	2593.0	22.75	-1	21.75	149.62	2
41565	2687.5	22.77	-1	21.77	150.31	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	21.34	-1	20.34	108.14	2
40620	2593.0	21.26	-1	20.26	106.17	2
41565	2687.5	21.17	-1	20.17	103.99	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	23.64	-1	22.64	183.65	2
40620	2593.0	23.64	-1	22.64	183.65	2
41540	2685.0	23.57	-1	22.57	180.72	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	22.78	-1	21.78	150.66	2
40620	2593.0	22.64	-1	21.64	145.88	2
41540	2685.0	22.78	-1	21.78	150.66	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	21.3	-1	20.3	107.15	2
40620	2593.0	21.24	-1	20.24	105.68	2
41540	2685.0	21.21	-1	20.21	104.95	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	23.59	-1	22.59	181.55	2
40620	2593.0	23.68	-1	22.68	185.35	2
41515	2682.5	23.51	-1	22.51	178.24	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	22.7	-1	21.7	147.91	2
40620	2593.0	22.65	-1	21.65	146.22	2
41515	2682.5	22.84	-1	21.84	152.76	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	21.29	-1	20.29	106.91	2
40620	2593.0	21.27	-1	20.27	106.41	2
41515	2682.5	21.18	-1	20.18	104.23	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	23.73	-1	22.73	187.5	2
40620	2593.0	23.7	-1	22.7	186.21	2
41490	2680.0	23.62	-1	22.62	182.81	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	22.8	-1	21.8	151.36	2
40620	2593.0	22.79	-1	21.79	151.01	2
41490	2680.0	22.89	-1	21.89	154.53	2

CHANNEL BANDWIDTH: 20 MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	21.44	-1	20.44	110.66	2
40620	2593.0	21.34	-1	20.34	108.14	2
41490	2680.0	21.27	-1	20.27	106.41	2

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.96	-1.5	22.46	176.2	1
132322	1745	24.01	-1.5	22.51	178.24	1
132665	1779.3	23.93	-1.5	22.43	174.98	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.2	-1.5	21.7	147.91	1
132322	1745	23.23	-1.5	21.73	148.94	1
132665	1779.3	23.33	-1.5	21.83	152.41	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.08	-1.5	20.58	114.29	1
132322	1745	22.17	-1.5	20.67	116.68	1
132665	1779.3	22.27	-1.5	20.77	119.4	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	24.21	-1.5	22.71	186.64	1
132322	1745	24.15	-1.5	22.65	184.08	1
132657	1778.5	23.83	-1.5	22.33	171	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	23.03	-1.5	21.53	142.23	1
132322	1745	22.95	-1.5	21.45	139.64	1
132657	1778.5	22.71	-1.5	21.21	132.13	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.05	-1.5	20.55	113.5	1
132322	1745	22	-1.5	20.5	112.2	1
132657	1778.5	22.06	-1.5	20.56	113.76	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	24.17	-1.5	22.67	184.93	1
132322	1745	24.14	-1.5	22.64	183.65	1
132647	1777.5	23.82	-1.5	22.32	170.61	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	22.93	-1.5	21.43	139	1
132322	1745	22.84	-1.5	21.34	136.14	1
132647	1777.5	22.76	-1.5	21.26	133.66	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	21.97	-1.5	20.47	111.43	1
132322	1745	22	-1.5	20.5	112.2	1
132647	1777.5	22.05	-1.5	20.55	113.5	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	24.17	-1.5	22.67	184.93	1
132322	1745	24.03	-1.5	22.53	179.06	1
132622	1775	23.85	-1.5	22.35	171.79	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.97	-1.5	21.47	140.28	1
132322	1745	22.93	-1.5	21.43	139	1
132622	1775	22.79	-1.5	21.29	134.59	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.01	-1.5	20.51	112.46	1
132322	1745	21.92	-1.5	20.42	110.15	1
132622	1775	22.07	-1.5	20.57	114.02	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	24.11	-1.5	22.61	182.39	1
132322	1745	24.11	-1.5	22.61	182.39	1
132597	1772.5	23.82	-1.5	22.32	170.61	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22.98	-1.5	21.48	140.6	1
132322	1745	22.91	-1.5	21.41	138.36	1
132597	1772.5	22.73	-1.5	21.23	132.74	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	21.99	-1.5	20.49	111.94	1
132322	1745	21.88	-1.5	20.38	109.14	1
132597	1772.5	22.15	-1.5	20.65	116.14	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	24.04	-1.5	22.54	179.47	1
132322	1745	24.08	-1.5	22.58	181.13	1
132572	1770	24.01	-1.5	22.51	178.24	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.35	-1.5	21.85	153.11	1
132322	1745	23.36	-1.5	21.86	153.46	1
132572	1770	23.39	-1.5	21.89	154.53	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	22.22	-1.5	20.72	118.03	1
132322	1745	22.32	-1.5	20.82	120.78	1
132572	1770	22.28	-1.5	20.78	119.67	1

REMARKS: EIRP Output Power (dBm) = EIRP (dBm) -2.15(dB).

Ant 1(DOWN):

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	24.07	-1.5	22.57	180.72	1
20175	1732.5	24.05	-1.5	22.55	179.89	1
20393	1754.3	24.15	-1.5	22.65	184.08	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.33	-1.5	21.83	152.41	1
20175	1732.5	23.45	-1.5	21.95	156.68	1
20393	1754.3	23.43	-1.5	21.93	155.96	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.29	-1.5	20.79	119.95	1
20175	1732.5	22.39	-1.5	20.89	122.74	1
20393	1754.3	22.29	-1.5	20.79	119.95	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	24.25	-1.5	22.75	188.36	1
20175	1732.5	24.13	-1.5	22.63	183.23	1
20385	1753.5	23.86	-1.5	22.36	172.19	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.94	-1.5	21.44	139.32	1
20175	1732.5	22.94	-1.5	21.44	139.32	1
20385	1753.5	22.58	-1.5	21.08	128.23	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.99	-1.5	20.49	111.94	1
20175	1732.5	21.98	-1.5	20.48	111.69	1
20385	1753.5	22.09	-1.5	20.59	114.55	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	24.21	-1.5	22.71	186.64	1
20175	1732.5	24.06	-1.5	22.56	180.3	1
20375	1752.5	23.92	-1.5	22.42	174.58	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.94	-1.5	21.44	139.32	1
20175	1732.5	22.84	-1.5	21.34	136.14	1
20375	1752.5	22.72	-1.5	21.22	132.43	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	21.99	-1.5	20.49	111.94	1
20175	1732.5	21.95	-1.5	20.45	110.92	1
20375	1752.5	22.15	-1.5	20.65	116.14	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	24.2	-1.5	22.7	186.21	1
20175	1732.5	24.04	-1.5	22.54	179.47	1
20350	1750	23.83	-1.5	22.33	171	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.91	-1.5	21.41	138.36	1
20175	1732.5	22.9	-1.5	21.4	138.04	1
20350	1750	22.82	-1.5	21.32	135.52	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.08	-1.5	20.58	114.29	1
20175	1732.5	21.99	-1.5	20.49	111.94	1
20350	1750	22.09	-1.5	20.59	114.55	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	24.2	-1.5	22.7	186.21	1
20175	1732.5	24.12	-1.5	22.62	182.81	1
20325	1747.5	23.93	-1.5	22.43	174.98	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.91	-1.5	21.41	138.36	1
20175	1732.5	22.91	-1.5	21.41	138.36	1
20325	1747.5	22.74	-1.5	21.24	133.05	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.01	-1.5	20.51	112.46	1
20175	1732.5	21.97	-1.5	20.47	111.43	1
20325	1747.5	22.13	-1.5	20.63	115.61	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	24.11	-1.5	22.61	182.39	1
20175	1732.5	24.15	-1.5	22.65	184.08	1
20300	1745	24.2	-1.5	22.7	186.21	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.44	-1.5	21.94	156.31	1
20175	1732.5	23.47	-1.5	21.97	157.4	1
20300	1745	23.48	-1.5	21.98	157.76	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.36	-1.5	20.86	121.9	1
20175	1732.5	22.44	-1.5	20.94	124.17	1
20300	1745	22.43	-1.5	20.93	123.88	1

LTE BAND 38

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	24	-0.5	23.5	223.87	2
38000	2595.0	23.9	-0.5	23.4	218.78	2
38225	2617.5	23.86	-0.5	23.36	216.77	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	23.04	-0.5	22.54	179.47	2
38000	2595.0	22.99	-0.5	22.49	177.42	2
38225	2617.5	22.97	-0.5	22.47	176.6	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37775	2572.5	21.75	-0.5	21.25	133.35	2
38000	2595	21.7	-0.5	21.2	131.83	2
38225	2617.5	21.74	-0.5	21.24	133.05	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	23.93	-0.5	23.43	220.29	2
38000	2595.0	23.92	-0.5	23.42	219.79	2
38200	2615.0	23.96	-0.5	23.46	221.82	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575.0	22.94	-0.5	22.44	175.39	2
38000	2595.0	23.06	-0.5	22.56	180.3	2
38200	2615.0	23.03	-0.5	22.53	179.06	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37800	2575	21.67	-0.5	21.17	130.92	2
38000	2595	21.77	-0.5	21.27	133.97	2
38200	2615	21.75	-0.5	21.25	133.35	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	23.99	-0.5	23.49	223.36	2
38000	2595.0	23.99	-0.5	23.49	223.36	2
38175	2612.5	23.91	-0.5	23.41	219.28	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	22.98	-0.5	22.48	177.01	2
38000	2595.0	22.95	-0.5	22.45	175.79	2
38175	2612.5	23.08	-0.5	22.58	181.13	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37825	2577.5	21.65	-0.5	21.15	130.32	2
38000	2595	21.77	-0.5	21.27	133.97	2
38175	2612.5	21.76	-0.5	21.26	133.66	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	23.97	-0.5	23.47	222.33	2
38000	2595.0	24.03	-0.5	23.53	225.42	2
38150	2610.0	24.01	-0.5	23.51	224.39	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580.0	23.07	-0.5	22.57	180.72	2
38000	2595.0	23.09	-0.5	22.59	181.55	2
38150	2610.0	23.11	-0.5	22.61	182.39	2

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
37850	2580	21.79	-0.5	21.29	134.59	2
38000	2595	21.8	-0.5	21.3	134.9	2
38150	2610	21.83	-0.5	21.33	135.83	2



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Test Report No.: W7L-P24100005RF08

LTE BAND 41

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	23.94	-0.5	23.44	220.8	2
40620	2593.0	23.91	-0.5	23.41	219.28	2
41565	2687.5	23.38	-0.5	22.88	194.09	2

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	22.9	-0.5	22.4	173.78	2
40620	2593.0	22.93	-0.5	22.43	174.98	2
41565	2687.5	22.48	-0.5	21.98	157.76	2

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39675	2498.5	21.56	-0.5	21.06	127.64	2
40620	2593.0	21.48	-0.5	20.98	125.31	2
41565	2687.5	21.49	-0.5	20.99	125.6	2

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	23.93	-0.5	23.43	220.29	2
40620	2593.0	23.85	-0.5	23.35	216.27	2
41540	2685.0	23.4	-0.5	22.9	194.98	2

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	22.89	-0.5	22.39	173.38	2
40620	2593.0	22.97	-0.5	22.47	176.6	2
41540	2685.0	22.48	-0.5	21.98	157.76	2

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39700	2501.0	21.54	-0.5	21.04	127.06	2
40620	2593.0	21.48	-0.5	20.98	125.31	2
41540	2685.0	21.49	-0.5	20.99	125.6	2

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	23.84	-0.5	23.34	215.77	2
40620	2593.0	23.83	-0.5	23.33	215.28	2
41515	2682.5	23.4	-0.5	22.9	194.98	2

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	22.93	-0.5	22.43	174.98	2
40620	2593.0	23.01	-0.5	22.51	178.24	2
41515	2682.5	22.44	-0.5	21.94	156.31	2

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39725	2503.5	21.57	-0.5	21.07	127.94	2
40620	2593.0	21.56	-0.5	21.06	127.64	2
41515	2682.5	21.49	-0.5	20.99	125.6	2

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	23.96	-0.5	23.46	221.82	2
40620	2593.0	23.94	-0.5	23.44	220.8	2
41490	2680.0	23.49	-0.5	22.99	199.07	2

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	22.99	-0.5	22.49	177.42	2
40620	2593.0	23.02	-0.5	22.52	178.65	2
41490	2680.0	22.54	-0.5	22.04	159.96	2

CHANNEL BANDWIDTH: 20 MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
39750	2506.0	21.62	-0.5	21.12	129.42	2
40620	2593.0	21.57	-0.5	21.07	127.94	2
41490	2680.0	21.5	-0.5	21	125.89	2

LTE BAND 66

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	24.166	-1.5	22.666	184.76	1
132322	1745	24.25	-1.5	22.75	188.36	1
132665	1779.3	24.12	-1.5	22.62	182.81	1

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.3	-1.5	21.8	151.36	1
132322	1745	23.22	-1.5	21.72	148.59	1
132665	1779.3	23.26	-1.5	21.76	149.97	1

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.35	-1.5	20.85	121.62	1
132322	1745	22.3	-1.5	20.8	120.23	1
132665	1779.3	22.32	-1.5	20.82	120.78	1

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	24.15	-1.5	22.65	184.08	1
132322	1745	24.08	-1.5	22.58	181.13	1
132657	1778.5	23.9	-1.5	22.4	173.78	1

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	23	-1.5	21.5	141.25	1
132322	1745	22.89	-1.5	21.39	137.72	1
132657	1778.5	22.81	-1.5	21.31	135.21	1

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.09	-1.5	20.59	114.55	1
132322	1745	21.99	-1.5	20.49	111.94	1
132657	1778.5	22.13	-1.5	20.63	115.61	1

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	24.21	-1.5	22.71	186.64	1
132322	1745	24.05	-1.5	22.55	179.89	1
132647	1777.5	23.9	-1.5	22.4	173.78	1

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	22.98	-1.5	21.48	140.6	1
132322	1745	22.92	-1.5	21.42	138.68	1
132647	1777.5	22.78	-1.5	21.28	134.28	1

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	21.95	-1.5	20.45	110.92	1
132322	1745	21.96	-1.5	20.46	111.17	1
132647	1777.5	22.11	-1.5	20.61	115.08	1

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	24.18	-1.5	22.68	185.35	1
132322	1745	24.14	-1.5	22.64	183.65	1
132622	1775	23.9	-1.5	22.4	173.78	1

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.92	-1.5	21.42	138.68	1
132322	1745	22.93	-1.5	21.43	139	1
132622	1775	22.83	-1.5	21.33	135.83	1

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	21.96	-1.5	20.46	111.17	1
132322	1745	21.87	-1.5	20.37	108.89	1
132622	1775	22.12	-1.5	20.62	115.35	1

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	24.12	-1.5	22.62	182.81	1
132322	1745	24.1	-1.5	22.6	181.97	1
132597	1772.5	23.84	-1.5	22.34	171.4	1

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22.92	-1.5	21.42	138.68	1
132322	1745	22.85	-1.5	21.35	136.46	1
132597	1772.5	22.75	-1.5	21.25	133.35	1

CHANNEL BANDWIDTH: 15MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	22	-1.5	20.5	112.2	1
132322	1745	21.98	-1.5	20.48	111.69	1
132597	1772.5	22.06	-1.5	20.56	113.76	1

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	24.236	-1.5	22.736	187.76	1
132322	1745	24.26	-1.5	22.76	188.8	1
132572	1770	24.22	-1.5	22.72	187.07	1

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.34	-1.5	21.84	152.76	1
132322	1745	23.35	-1.5	21.85	153.11	1
132572	1770	23.32	-1.5	21.82	152.05	1

CHANNEL BANDWIDTH: 20MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	22.44	-1.5	20.94	124.17	1
132322	1745	22.45	-1.5	20.95	124.45	1
132572	1770	22.41	-1.5	20.91	123.31	1

REMARKS: EIRP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

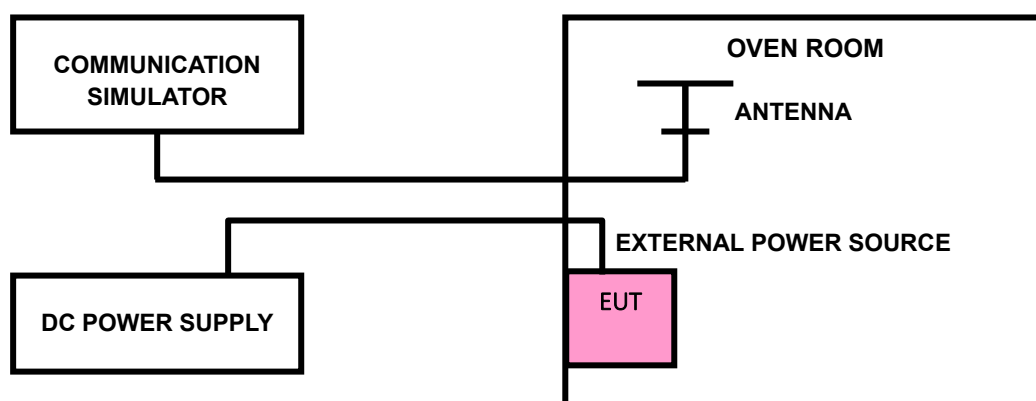
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- The device is placed in the oven room. The oven room could control the temperatures and humidity. Power warms 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 recording the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be holding $\pm 0.5^{\circ}\text{C}$ during the measurement testing. 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.

3.2.3 TEST SETUP





Test Report No.: W7L-P24100005RF08

3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

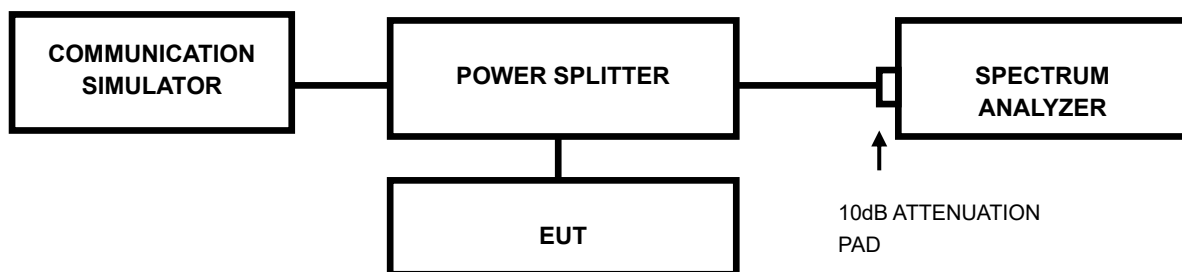
Note: LV = Low voltage (3.6V); NV = Normal voltage (3.84V); HV= High voltage (4.4V).
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band is such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage. 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: W7L-P24100005RF08

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

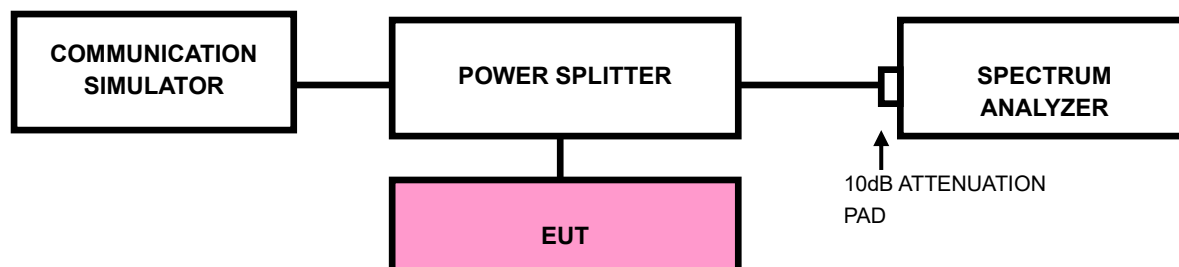
3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC Part 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC Part 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1-megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 30/100KHz.
- k) Record the max trace plot into the test report.



Test Report No.: W7L-P24100005RF08

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 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 is equal to -13dBm .

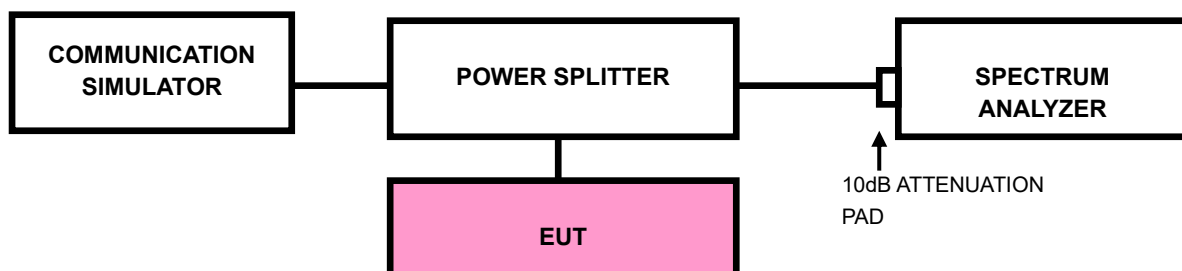
For: Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle, and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: W7L-P24100005RF08

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 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 -13dBm .

For: Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

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

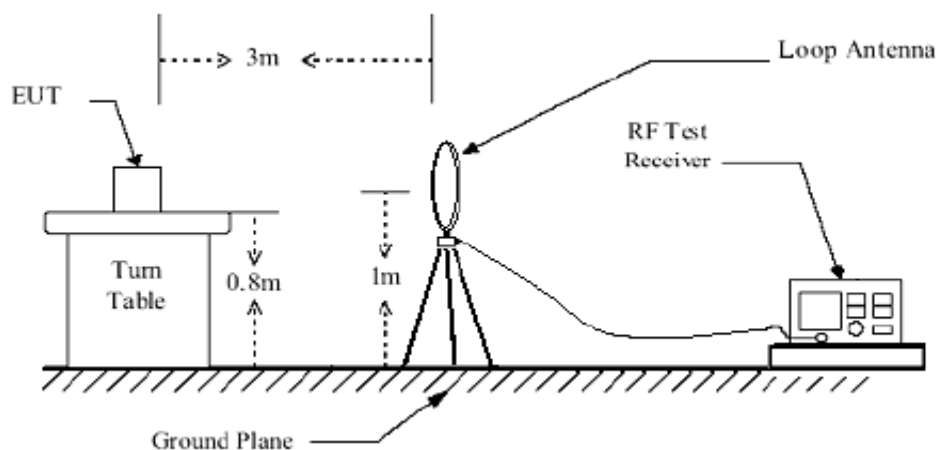
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

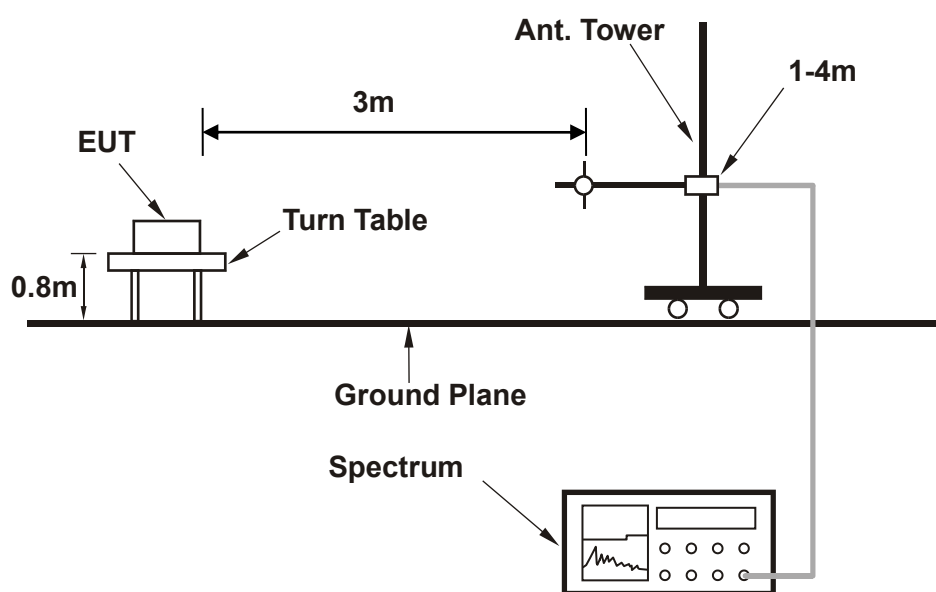
No deviation

3.6.4 TEST SETUP

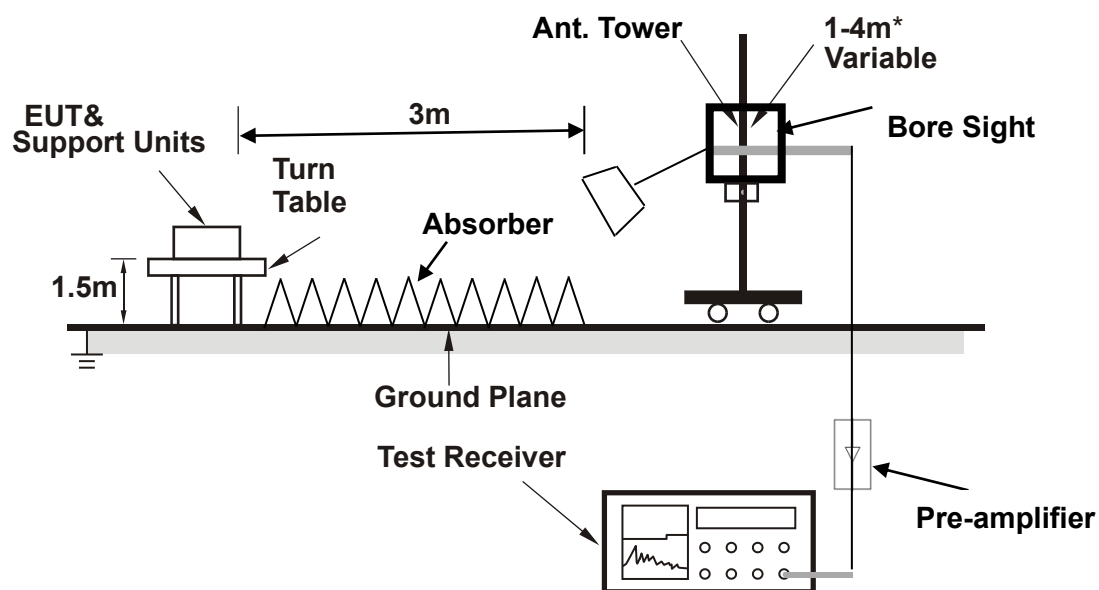
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

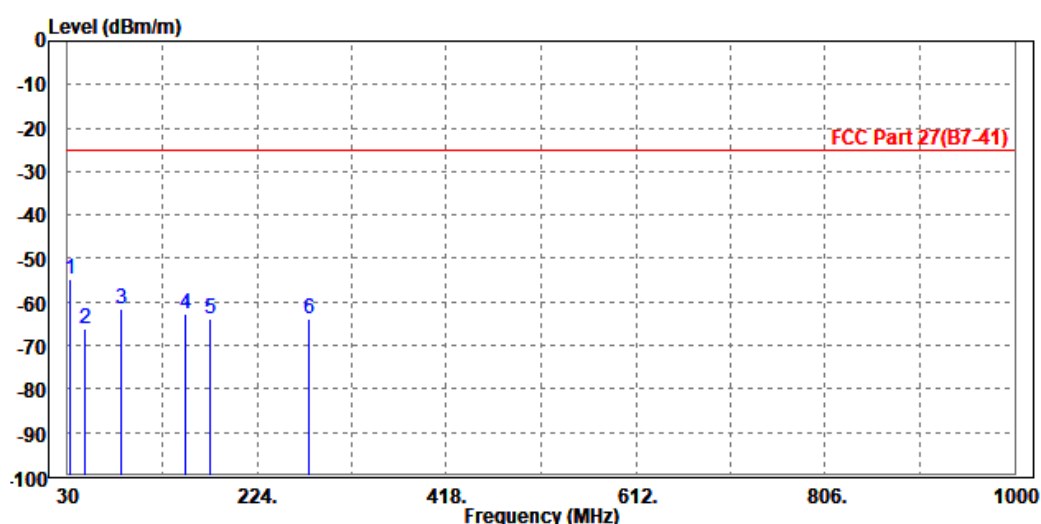
30 MHz – 1GHz data:

LTE Band 41(Ant0) (UP):

CHANNEL BANDWIDTH: 10MHz / QPSK

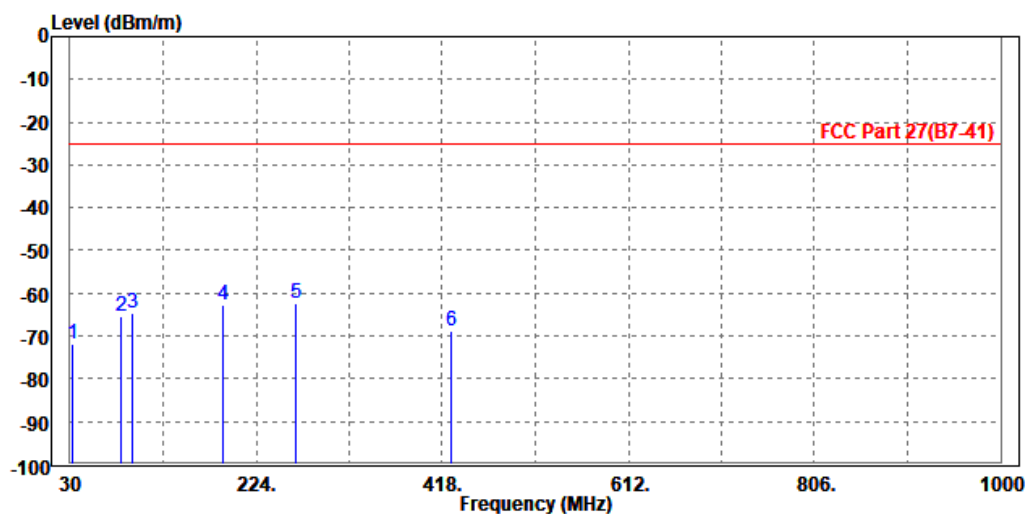
MODE	TX channel 40620	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	31.940	-54.67	-51.63	-25.00	-29.67	-3.04 Peak	Horizontal
2		47.460	-66.13	-55.88	-25.00	-41.13	-10.25 Peak	Horizontal
3		85.290	-61.70	-48.98	-25.00	-36.70	-12.72 Peak	Horizontal
4		150.280	-62.68	-48.34	-25.00	-37.68	-14.34 Peak	Horizontal
5		176.470	-63.99	-47.50	-25.00	-38.99	-16.49 Peak	Horizontal
6		277.350	-63.96	-54.08	-25.00	-38.96	-9.88 Peak	Horizontal



MODE	TX channel 40620	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	31.940	-71.87	-50.46	-25.00	-46.87	-21.41	Peak	Vertical
2	82.380	-65.44	-46.85	-25.00	-40.44	-18.59	Peak	Vertical
3	94.990	-64.47	-47.48	-25.00	-39.47	-16.99	Peak	Vertical
4	190.050	-62.88	-56.35	-25.00	-37.88	-6.53	Peak	Vertical
5 PP	265.710	-62.24	-58.60	-25.00	-37.24	-3.64	Peak	Vertical
6	427.700	-68.64	-64.19	-25.00	-43.64	-4.45	Peak	Vertical





Test Report No.: W7L-P24100005RF08

ABOVE 1GHz

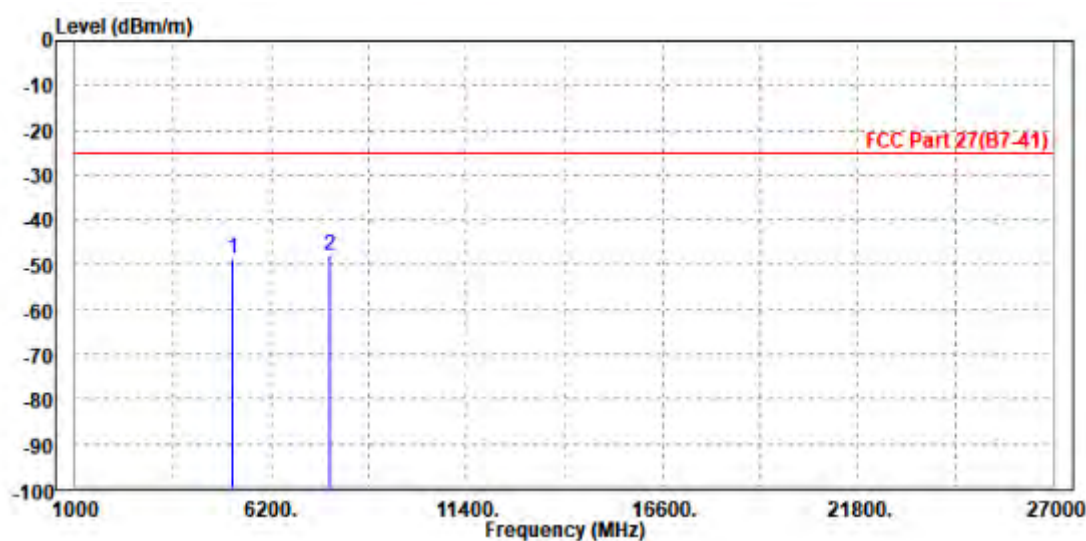
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 41(Ant0) (UP):

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5186.000	-48.62	-59.96	-25.00	-23.62	11.34	Peak	Horizontal
2 PP	7779.000	-47.87	-62.69	-25.00	-22.87	14.82	Peak	Horizontal

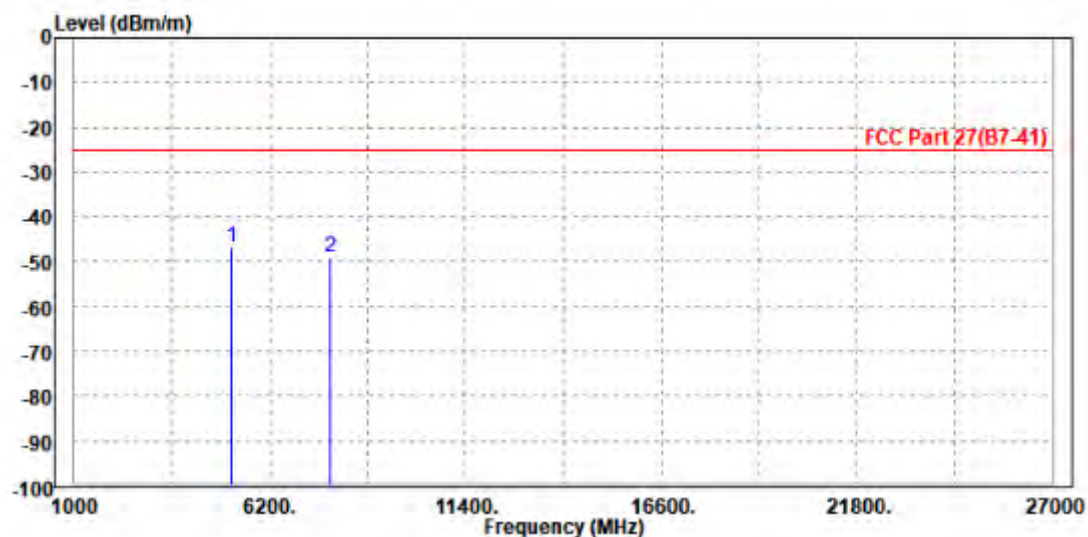




Test Report No.: W7L-P24100005RF08

MODE	TX channel 40620	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	5186.000	-46.95	-58.68	-25.00	-21.95	11.73	Peak	Vertical
2		7786.000	-48.91	-63.17	-25.00	-23.91	14.26	Peak	Vertical





Test Report No.: W7L-P24100005RF08

CHANNEL BANDWIDTH: 10MHz / QPSK

CH39700

MODE	TX channel 39700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5002.000	-48.51	-59.57	-25.00	-23.51	11.06	Peak	Horizontal
2	7503.000	-48.78	-63.13	-25.00	-23.78	14.35	Peak	Horizontal

