

## FCC Test Report (Part 27)

**Report No.:** RF190130C26-8

**FCC ID:** 2ASPU-HERA51

**Test Model:** HERA51

**Received Date:** Jan. 30, 2019

**Test Date:** Feb. 13 ~ Mar. 12, 2019

**Issued Date:** Mar. 12, 2019

**Applicant:** mPLUS Technology Co., Ltd.

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

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(R.O.C.)

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

**FCC Registration /** 788550 / TW0003

**Designation Number:**



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### Release Control Record

Issue No.	Description	Date Issued
RF190130C26-8	Original release	Mar. 12, 2019

## 1 Certificate of Conformity

**Product:** mobile POS

**Brand:**



**Test Model:** HERA51

**Sample Status:** Engineering sample

**Applicant:** mPLUS Technology Co., Ltd.

**Test Date:** Feb. 13 ~ Mar. 12, 2019

**Standards:** FCC Part 27, Subpart C, L, H, F, M

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

**Prepared by :** Celine Chou , **Date:** Mar. 12, 2019  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Mar. 12, 2019  
Bruce Chen / Project Engineer

## 2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2							
FCC Clause					Test Item	Result	Remarks
WCDMA B4 / LTE B4	LTE B12	LTE B13	LTE B17	LTE B7 / LTE B38 / LTE B41			
2.1046 27.50 (d)(4)	2.1046 27.50 (c)(10)	2.1046 27.50 (b)(10)	2.1046 27.50 (c)(10)	2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
27.50 (d)(5)	----	----	----	----	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	2.1049 27.53 (m)(6)	2.1049 27.53 (m)(6)	2.1049 27.53 (m)(6)	2.1049 27.53 (m)(6)	Emission Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(h)	2.1051 27.53(g)	2.1051 27.53(c)	2.1051 27.53(g)	2.1051 27.53 (m)(4)(6)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(h)	2.1051 27.53(g)	2.1051 27.53(c)	2.1051 27.53(g)	2.1051 27.53 (m)(4)(6)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(h)	2.1051 27.53(g)	2.1051 27.53(c)	2.1051 27.53(g)	2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -9.6dB at 5190.00MHz.

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

### 2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB


## 2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Jan. 03, 2019	Jan. 02, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jul. 02, 2018	Jul. 01, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	9120D	9120D-408	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
RF signal cable WOKEN	8D-FB	Cable-CH4-01	Aug. 29, 2018	Aug. 28, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2018	Nov. 13, 2019
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in HwaYa Chamber 4.  
 3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.  
 4. The IC Site Registration No. is 7450F-4.

### 3 General Information

#### 3.1 General Description of EUT

Product	mobile POS		
Brand			
Test Model	HERA51		
Status of EUT	Engineering sample		
Power Supply Rating	5Vdc (adapter) 3.75Vdc (battery)		
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM		
Operating Frequency	WCDMA Band 4		1712.4MHz ~ 1752.6MHz
	LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1754.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1753.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1752.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1750.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1747.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 7	Channel Bandwidth 5MHz	2502.5MHz ~ 2567.5MHz
		Channel Bandwidth 10MHz	2505.0MHz ~ 2565.0MHz
		Channel Bandwidth 15MHz	2507.5MHz ~ 2562.5MHz
		Channel Bandwidth 20MHz	2510.0MHz ~ 2560.0MHz
	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz
		Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz
		Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz
	LTE Band 13	Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz
		Channel Bandwidth 5MHz	779.5MHz ~ 784.5MHz
	LTE Band 17	Channel Bandwidth 10MHz	782.0MHz
		Channel Bandwidth 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 38	Channel Bandwidth 10MHz	709.0MHz ~ 711.0MHz
		Channel Bandwidth 5MHz	2572.5MHz ~ 2617.5MHz
		Channel Bandwidth 10MHz	2575.0MHz ~ 2615.0MHz
		Channel Bandwidth 15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band 41	Channel Bandwidth 20MHz	2580.0MHz ~ 2610.0MHz
		Channel Bandwidth 5MHz	2547.5MHz ~ 2652.5MHz
		Channel Bandwidth 10MHz	2550.0MHz ~ 2650.0MHz
		Channel Bandwidth 15MHz	2552.5MHz ~ 2647.5MHz
		Channel Bandwidth 20MHz	2555.0MHz ~ 2645.0MHz



Max. EIRP Power	WCDMA Band 4		724.436mW (28.6dBm)	
			QPSK	16QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	588.844mW (27.7dBm)	489.779mW (26.9dBm)
		Channel Bandwidth 3MHz	676.083mW (28.3dBm)	562.341mW (27.5dBm)
		Channel Bandwidth 5MHz	660.693mW (28.2dBm)	549.541mW (27.4dBm)
		Channel Bandwidth 10MHz	630.957mW (28.0dBm)	501.187mW (27.0dBm)
		Channel Bandwidth 15MHz	575.440mW (27.6dBm)	478.630mW (26.8dBm)
		Channel Bandwidth 20MHz	660.693mW (28.2dBm)	537.032mW (27.3dBm)
	LTE Band 7	Channel Bandwidth 5MHz	660.693mW (28.2dBm)	537.032mW (27.3dBm)
		Channel Bandwidth 10MHz	645.654mW (28.1dBm)	524.807mW (27.2dBm)
		Channel Bandwidth 15MHz	645.654mW (28.1dBm)	575.440mW (27.6dBm)
		Channel Bandwidth 20MHz	645.654mW (28.1dBm)	549.541mW (27.4dBm)
	LTE Band 38	Channel Bandwidth 5MHz	575.440mW (27.6dBm)	501.187mW (27.0dBm)
		Channel Bandwidth 10MHz	575.440mW (27.6dBm)	512.861mW (27.1dBm)
		Channel Bandwidth 15MHz	575.440mW (27.6dBm)	489.779mW (26.9dBm)
		Channel Bandwidth 20MHz	575.440mW (27.6dBm)	489.779mW (26.9dBm)
	LTE Band 41	Channel Bandwidth 5MHz	660.693mW (28.2dBm)	575.440mW (27.6dBm)
		Channel Bandwidth 10MHz	645.654mW (28.1dBm)	575.440mW (27.6dBm)
		Channel Bandwidth 15MHz	660.693mW (28.2dBm)	588.844mW (27.7dBm)
		Channel Bandwidth 20MHz	660.693mW (28.2dBm)	588.844mW (27.7dBm)

Max. ERP Power			QPSK	16QAM
	LTE Band 12	Channel Bandwidth 1.4MHz	77.625mW (18.9dBm)	58.884mW (17.7dBm)
		Channel Bandwidth 3MHz	77.625mW (18.9dBm)	58.884mW (17.7dBm)
		Channel Bandwidth 5MHz	77.625mW (18.9dBm)	58.884mW (17.7dBm)
		Channel Bandwidth 10MHz	77.625mW (18.9dBm)	58.884mW (17.7dBm)
	LTE Band 13	Channel Bandwidth 5MHz	239.883mW (23.8dBm)	186.209mW (22.7dBm)
		Channel Bandwidth 10MHz	223.872mW (23.5dBm)	177.828mW (22.5dBm)
	LTE Band 17	Channel Bandwidth 5MHz	97.724mW (19.9dBm)	74.131mW (18.7dBm)
		Channel Bandwidth 10MHz	97.724mW (19.9dBm)	75.858mW (18.8dBm)
	Emission Designator	WCDMA Band 4		4M16F9W
		QPSK	16QAM	
LTE Band 4		Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W
		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M96G7D	8M97D7W
		Channel Bandwidth 15MHz	13M4G7D	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M9D7W
LTE Band 7		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M95G7D	8M95D7W
		Channel Bandwidth 15MHz	13M4G7D	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M9D7W
LTE Band 12		Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W
		Channel Bandwidth 5MHz	4M48G7D	4M49D7W
		Channel Bandwidth 10MHz	8M97G7D	8M97D7W
LTE Band 13		Channel Bandwidth 5MHz	4M48G7D	4M49D7W
		Channel Bandwidth 10MHz	8M96G7D	8M96D7W
LTE Band 17		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M97G7D	8M97D7W
LTE Band 38		Channel Bandwidth 5MHz	4M49G7D	4M48D7W
		Channel Bandwidth 10MHz	8M94G7D	8M96D7W
		Channel Bandwidth 15MHz	13M4G7D	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	17M9D7W
LTE Band 41		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M93G7D	8M90D7W
		Channel Bandwidth 15MHz	13M4G7D	13M3D7W
	Channel Bandwidth 20MHz	17M9G7D	17M9D7W	

Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Refer to Note
Cable Supplied	1.45m non-shielded snapon cable with one core

Note:

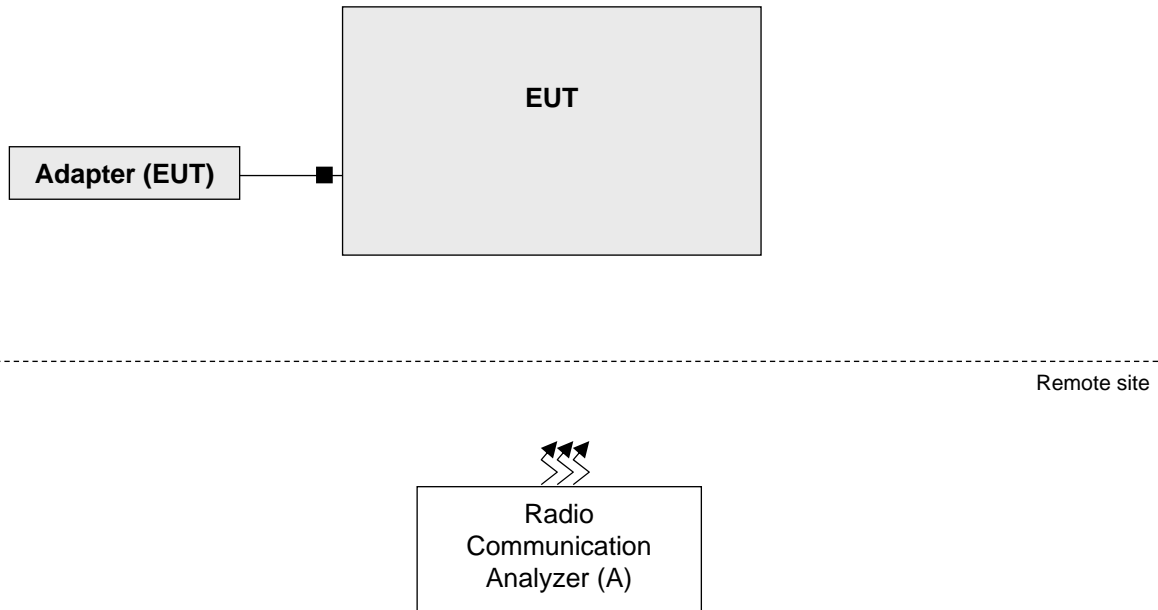
1. The EUT uses following antennas.

Antenna Type	Antenna Connector	Antenna Gain (dBi)		
		Ant.	Main (TX/RX)	Diversity (RX)
PIFA	Spring	WCDMA Band 4	2.6	-
		LTE Band 4	2.6	1.0
		LTE Band 7	2.8	1.8
		LTE Band 12	0.5	-5.6
		LTE Band 13	2.7	-4.8
		LTE Band 17	0.5	-5.6
		LTE Band 38	2.8	-1.9
		LTE Band 41	2.8	-0.9

2. The EUT uses following accessory devices.

Component	Vendor	Model	Specification
Adapter	Sunny COMPUTER TECHNOLOGY CO.,LTD.	SYS1561-1005	I/P: 100-240Vac, 1.0A MAX, 50-60Hz O/P: +5Vdc, 2A, 10W MAX.
Battery	CIPHERLAB	BA-0115A3	Rating: 3.75Vdc, 5300mAh, 19.88Wh

### 3.2 Configuration of System under Test



#### 3.2.1 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Anritsu	MT8860C	1702001	NA	-

Note:

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

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	Plane
WCDMA Band 4	Y-plane
LTE Band 4	Y-plane
LTE Band 7	Y-plane
LTE Band 12	Z-plane
LTE Band 13	Z-plane
LTE Band 17	Z-plane
LTE Band 38	Y-plane
LTE Band 41	Y-plane

#### WCDMA Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA
-	Modulation Characteristics	1312 to 1513	1413(1732.6MHz)	WCDMA, HSDPA, HSUPA
-	Frequency Stability	1312 to 1513	1312(1712.4MHz), 1513(1752.6MHz)	WCDMA
-	Occupied Bandwidth	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Band Edge	1312 to 1513	1312(1712.4MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Peak To Average Ratio	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Conducted Emission	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Radiated Emission Below 1GHz	1312 to 1513	1312(1712.4MHz)	WCDMA
-	Radiated Emission Above 1GHz	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA

Note: For radiated emission below 1GHz, low, mid and high channels were pre-tested E.R.P. in chamber. Low channel was found to be the worst case and therefore had been chosen for all final tests.

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	20050 to 20300	20175(1732.5MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	19957 to 20393	19957(1710.7MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20385(1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20325(1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	6 RB / 0RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	15 RB / 0RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	25RB / 0RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	50RB / 0RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	19957 to 20393	19957(1710.7MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20385(1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20325(1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak To Average Ratio	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	19975 to 20375	19975(1712.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.



LTE Band 7

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	2850 to 3350	21100(2535.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	2775 to 3425	20775(2502.5MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	25RB / 0RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	50RB / 0RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Band Edge	2775 to 3425	20775(2502.5MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak To Average Ratio	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	2775 to 3425	20775(2502.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

LTE Band 12

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5 MHz), 23130(711.0 MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23060 to 23130	23095(707.5MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23017 to 23173	23017(699.7MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23165(714.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23017 to 23173	23017(699.7MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23165(714.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23035 to 23155	23035(701.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23173	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

### LTE Band 13

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23230	23230(782.0MHz),	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23205 to 23255	23205(779.5MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23205 to 23255	23205(779.5MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23205 to 23255	23205(779.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

**Note:**

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

LTE Band 17

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23780 to 23800	23790(710.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23755 to 23825	23755(706.5MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23755 to 23825	23755(706.5MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23755 to 23825	23755(706.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

**LTE Band 38**

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	37850 to 38150	38000(2595.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	37775 to 38225	37775(2572.5MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	25RB / 0RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	50RB / 0RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Band Edge	37775 to 38225	37775(2572.5MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	37775 to 38225	37775(2572.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

**Note:**

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.



LTE Band 41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40520(2583.0MHz), 40850(2616.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40530(2584.0MHz), 40845(2615.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	40240 to 41140	40840(2615.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	40165 to 41215	40165(2547.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	25RB / 0RB Offset
		40190 to 41190	40190(2550.0MHz), 40520(2583.0MHz), 40850(2616.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	50RB / 0RB Offset
		40215 to 41165	40215(2552.5MHz), 40530(2584.0MHz), 40845(2615.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Band Edge	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40520(2583.0MHz), 40850(2616.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40530(2584.0MHz), 40845(2615.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40520(2583.0MHz), 40850(2616.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40530(2584.0MHz), 40845(2615.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40520(2583.0MHz), 40850(2616.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40530(2584.0MHz), 40845(2615.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	40165 to 41215	40165(2547.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	40165 to 41215	40165(2547.5MHz), 40545(2582.5MHz), 40865(2617.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40540(2585.0MHz), 40840(2615.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel in 5MHz was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK and 16QAM measured value of QPSK is higher than 16QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP / ERP	25deg. C, 70%RH 22deg. C, 66%RH	120Vac, 60Hz	Luis Lee Greg Lin Tim Chen Han Wu
Modulation characteristics	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Frequency Stability	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Occupied Bandwidth	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Band Edge	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Peak To Average Ratio	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Conducted Emission	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Radiated Emission	25deg. C, 70%RH	120Vac, 60Hz	Luis Lee

### 3.4 EUT Operating Conditions

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

### 3.5 General Description of Applied Standards

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 27**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

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

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 1 watts e.i.r.p for WCDMA, LTE Band 4, 2 watts e.i.r.p for LTE Band 7, Band 38, Band 41 and 3 watts e.r.p for LTE Band 12, Band 13 & Band 17.

#### 4.1.2 Test Procedures

##### EIRP / ERP Measurement:

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

Where:

$$ERP/EIRP = P_{Meas} + G_T - L_C$$

$P_{Meas}$  : Measure transmitter output power.

$G_T$  : Gain of the transmitting antenna.

$L_C$  : signal attenuation in the connecting cable between the transmitter and antenna.

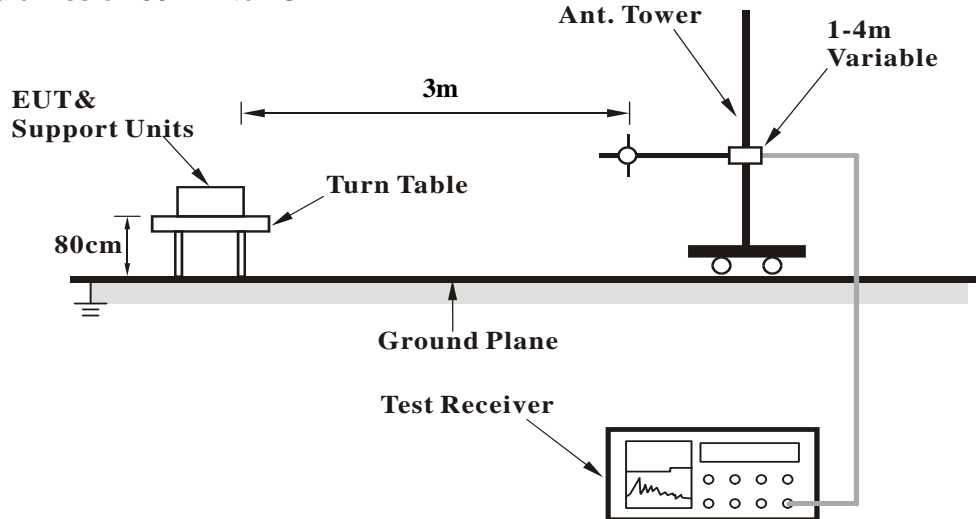
##### Conducted Power Measurement:

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

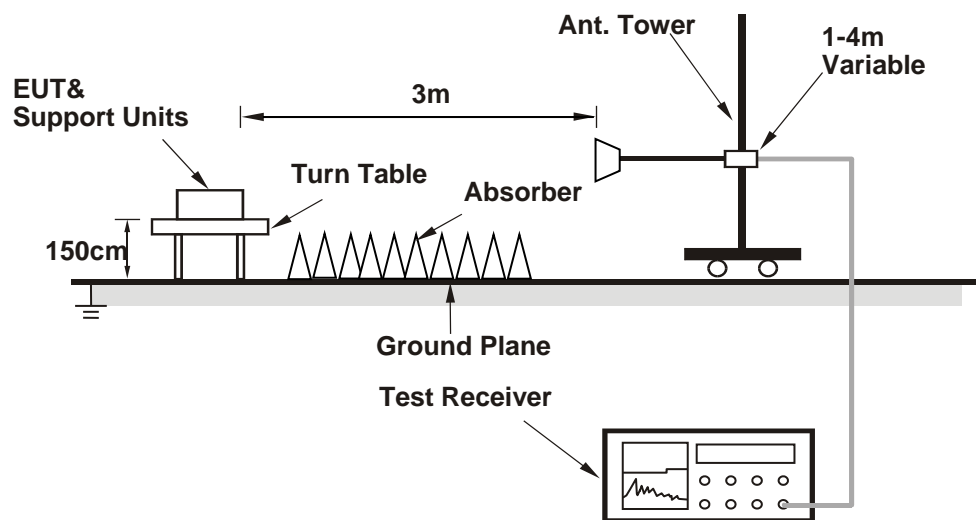
### 4.1.3 Test Setup

EIRP / ERP Measurement:

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

Conducted Power Measurement:



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

#### 4.1.4 Test Results

##### Conducted Output Power (dBm)

Band	WCDMA IV			Max. Tune-up Power
	1312	1413	1513	
TX Channel	1312	1413	1513	Max. Tune-up Power
Rx Channel	1537	1638	1738	
Frequency	1712.4	1732.6	1752.6	
RMC 12.2K	22.52	22.47	22.17	23.00
HSDPA Subtest-1	21.69	21.22	21.05	22.50
HSDPA Subtest-2	21.73	21.20	21.03	22.50
HSDPA Subtest-3	21.28	20.75	20.59	22.00
HSDPA Subtest-4	21.00	20.73	20.58	22.00
DC-HSDPA Subtest-1	21.67	21.20	21.03	22.50
DC-HSDPA Subtest-2	21.71	21.18	21.01	22.50
DC-HSDPA Subtest-3	21.26	20.73	20.57	22.00
DC-HSDPA Subtest-4	20.98	20.71	20.56	22.00
HSUPA Subtest-1	21.42	21.07	21.17	22.50
HSUPA Subtest-2	19.62	19.35	19.25	20.50
HSUPA Subtest-3	20.42	20.12	20.07	21.50
HSUPA Subtest-4	19.60	19.36	19.34	20.50
HSUPA Subtest-5	21.10	21.20	21.00	22.50

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19957	20175	20393		
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	22.41	22.52	22.60	0	23.5
		1	2	22.45	22.49	22.63	0	23.5
		1	5	22.49	22.54	22.56	0	23.5
		3	0	22.43	22.67	22.78	0	23.5
		3	1	22.54	22.55	22.61	0	23.5
		3	3	22.42	22.42	22.51	0	23.5
	16QAM	6	0	21.50	21.57	21.65	1	22.5
		1	0	21.49	21.48	21.63	1	22.5
		1	2	21.27	21.35	21.40	1	22.5
		1	5	21.33	21.36	21.44	1	22.5
		3	0	21.54	21.50	21.63	1	22.5
		3	1	21.47	21.60	21.62	1	22.5
		3	3	21.46	21.47	21.65	1	22.5
6	0	20.37	20.51	20.56	2	21.5		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19965	20175	20385		
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	22.51	22.59	22.71	0	23.5
		1	7	22.44	22.60	22.69	0	23.5
		1	14	22.34	22.44	22.50	0	23.5
		8	0	21.58	21.54	21.79	1	22.5
		8	3	21.48	21.47	21.66	1	22.5
		8	7	21.49	21.59	21.56	1	22.5
		15	0	21.52	21.61	21.70	1	22.5
	16QAM	1	0	21.49	21.53	21.76	1	22.5
		1	7	21.24	21.43	21.46	1	22.5
		1	14	21.24	21.38	21.54	1	22.5
		8	0	20.51	20.45	20.66	2	21.5
		8	3	20.51	20.59	20.60	2	21.5
		8	7	20.61	20.54	20.62	2	21.5
15		0	20.37	20.42	20.65	2	21.5	

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19975	20175	20375		
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	22.38	22.55	22.60	0	23.5
		1	12	22.45	22.55	22.53	0	23.5
		1	24	22.42	22.44	22.57	0	23.5
		12	0	21.65	21.60	21.69	1	22.5
		12	6	21.47	21.44	21.49	1	22.5
		12	13	21.43	21.44	21.61	1	22.5
		25	0	21.45	21.54	21.58	1	22.5
	16QAM	1	0	21.50	21.52	21.72	1	22.5
		1	12	21.38	21.36	21.35	1	22.5
		1	24	21.26	21.34	21.51	1	22.5
		12	0	20.43	20.62	20.75	2	21.5
		12	6	20.54	20.53	20.63	2	21.5
		12	13	20.47	20.57	20.64	2	21.5
		25	0	20.34	20.39	20.67	2	21.5
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20000	20175	20350		
		Frequency (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	22.37	22.53	22.58	0	23.5
		1	24	22.42	22.57	22.60	0	23.5
		1	49	22.33	22.50	22.58	0	23.5
		25	0	21.56	21.54	21.71	1	22.5
		25	12	21.51	21.50	21.74	1	22.5
		25	25	21.37	21.39	21.60	1	22.5
		50	0	21.42	21.64	21.69	1	22.5
	16QAM	1	0	21.48	21.55	21.62	1	22.5
		1	24	21.36	21.44	21.38	1	22.5
		1	49	21.34	21.21	21.37	1	22.5
		25	0	20.48	20.59	20.78	2	21.5
		25	12	20.46	20.52	20.62	2	21.5
		25	25	20.47	20.56	20.72	2	21.5
		50	0	20.45	20.45	20.71	2	21.5



LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20025	20175	20325		
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	22.48	22.61	22.74	0	23.5
		1	37	22.63	22.67	22.78	0	23.5
		1	74	22.49	22.52	22.66	0	23.5
		36	0	21.64	21.69	21.80	1	22.5
		36	19	21.60	21.61	21.76	1	22.5
		36	39	21.50	21.52	21.71	1	22.5
		75	0	21.59	21.60	21.75	1	22.5
	16QAM	1	0	21.54	21.58	21.81	1	22.5
		1	37	21.32	21.41	21.55	1	22.5
		1	74	21.38	21.36	21.48	1	22.5
		36	0	20.61	20.58	20.70	2	21.5
		36	19	20.48	20.63	20.68	2	21.5
		36	39	20.51	20.63	20.73	2	21.5
		75	0	20.47	20.54	20.64	2	21.5
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequency (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	22.57	22.62	22.75	0	23.5
		1	50	22.63	22.68	22.81	0	23.5
		1	99	22.53	22.58	22.71	0	23.5
		50	0	21.66	21.71	21.84	1	22.5
		50	25	21.63	21.68	21.81	1	22.5
		50	50	21.54	21.59	21.72	1	22.5
		100	0	21.59	21.64	21.77	1	22.5
	16QAM	1	0	21.63	21.68	21.81	1	22.5
		1	50	21.42	21.47	21.60	1	22.5
		1	99	21.40	21.45	21.58	1	22.5
		50	0	20.61	20.66	20.79	2	21.5
		50	25	20.58	20.63	20.76	2	21.5
		50	50	20.61	20.66	20.79	2	21.5
		100	0	20.54	20.59	20.72	2	21.5

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20775	21100	21425		
		Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	20.10	20.13	20.24	0	20.5
		1	12	20.11	20.11	20.16	0	20.5
		1	24	20.08	20.15	20.20	0	20.5
		12	0	19.19	19.25	19.29	1	19.5
		12	6	19.13	19.28	19.29	1	19.5
		12	13	19.22	19.33	19.31	1	19.5
		25	0	19.11	19.35	19.33	1	19.5
	16QAM	1	0	18.99	19.28	19.19	1	19.5
		1	12	19.08	19.25	19.36	1	19.5
		1	24	19.12	19.15	19.15	1	19.5
		12	0	18.24	18.27	18.41	2	18.5
		12	6	18.09	18.24	18.26	2	18.5
		12	13	18.18	18.28	18.28	2	18.5
		25	0	18.18	18.22	18.27	2	18.5
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20800	21100	21400		
		Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0	20.06	20.21	20.19	0	20.5
		1	24	20.03	20.23	20.30	0	20.5
		1	49	20.15	20.24	20.29	0	20.5
		25	0	19.23	19.30	19.38	1	19.5
		25	12	19.22	19.23	19.32	1	19.5
		25	25	19.22	19.34	19.31	1	19.5
		50	0	19.15	19.21	19.42	1	19.5
	16QAM	1	0	19.13	19.28	19.22	1	19.5
		1	24	19.10	19.23	19.24	1	19.5
		1	49	19.13	19.29	19.18	1	19.5
		25	0	18.15	18.35	18.31	2	18.5
		25	12	18.06	18.19	18.31	2	18.5
		25	25	18.11	18.20	18.37	2	18.5
		50	0	18.20	18.23	18.20	2	18.5

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20825	21100	21375		
		Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	20.18	20.26	20.34	0	20.5
		1	37	20.16	20.30	20.35	0	20.5
		1	74	20.19	20.22	20.28	0	20.5
		36	0	19.27	19.38	19.40	1	19.5
		36	19	19.22	19.40	19.40	1	19.5
		36	39	19.30	19.35	19.43	1	19.5
		75	0	19.29	19.34	19.38	1	19.5
	16QAM	1	0	19.22	19.33	19.38	1	19.5
		1	37	19.13	19.34	19.28	1	19.5
		1	74	19.15	19.28	19.35	1	19.5
		36	0	18.19	18.41	18.45	2	18.5
		36	19	18.18	18.36	18.41	2	18.5
		36	39	18.19	18.26	18.32	2	18.5
		75	0	18.19	18.32	18.39	2	18.5
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequency (MHz)		2510	2535	2560		
20M	QPSK	1	0	20.22	20.34	20.38	0	20.5
		1	50	20.20	20.32	20.36	0	20.5
		1	99	20.19	20.31	20.35	0	20.5
		50	0	19.32	19.44	19.48	1	19.5
		50	25	19.31	19.43	19.47	1	19.5
		50	50	19.30	19.42	19.46	1	19.5
		100	0	19.31	19.43	19.47	1	19.5
	16QAM	1	0	19.23	19.35	19.39	1	19.5
		1	50	19.22	19.34	19.38	1	19.5
		1	99	19.19	19.31	19.35	1	19.5
		50	0	18.29	18.41	18.45	2	18.5
		50	25	18.26	18.38	18.42	2	18.5
		50	50	18.23	18.35	18.39	2	18.5
		100	0	18.25	18.37	18.41	2	18.5

LTE Band 12								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23017	23095	23173		
		Frequency (MHz)		699.7	707.5	715.3		
1.4M	QPSK	1	0	22.93	22.97	23.42	0	24
		1	2	23.19	23.30	23.63	0	24
		1	5	22.99	22.93	23.31	0	24
		3	0	23.13	23.26	23.50	0	24
		3	1	23.14	23.17	23.53	0	24
		3	3	22.99	23.03	23.30	0	24
	16QAM	6	0	22.14	22.13	22.45	1	23
		1	0	21.96	21.88	22.36	1	23
		1	2	22.09	22.17	22.45	1	23
		1	5	21.91	21.88	22.23	1	23
		3	0	22.18	22.37	22.70	1	23
		3	1	22.14	22.20	22.51	1	23
		3	3	22.21	22.35	22.75	1	23
6	0	21.25	21.19	21.45	2	22		
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23025	23095	23165		
		Frequency (MHz)		700.5	707.5	714.5		
3M	QPSK	1	0	22.97	23.10	23.31	0	24
		1	7	23.27	23.38	23.63	0	24
		1	14	22.90	23.00	23.17	0	24
		8	0	22.33	22.24	22.51	1	23
		8	3	22.20	22.20	22.45	1	23
		8	7	22.08	22.06	22.31	1	23
		15	0	22.12	22.17	22.59	1	23
	16QAM	1	0	21.92	21.95	22.31	1	23
		1	7	22.07	22.18	22.41	1	23
		1	14	21.98	22.01	22.22	1	23
		8	0	21.17	21.26	21.65	2	22
		8	3	21.25	21.11	21.43	2	22
		8	7	21.30	21.44	21.73	2	22
15		0	21.14	21.25	21.48	2	22	

LTE Band 12								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23035	23095	23155		
		Frequency (MHz)		701.5	707.5	713.5		
5M	QPSK	1	0	23.13	23.13	23.49	0	24
		1	12	23.33	23.42	23.73	0	24
		1	24	22.99	22.98	23.31	0	24
		12	0	22.33	22.38	22.69	1	23
		12	6	22.22	22.28	22.53	1	23
		12	13	22.08	22.11	22.48	1	23
		25	0	22.19	22.25	22.59	1	23
	16QAM	1	0	21.99	22.07	22.37	1	23
		1	12	22.15	22.15	22.53	1	23
		1	24	21.96	21.97	22.33	1	23
		12	0	21.27	21.29	21.63	2	22
		12	6	21.24	21.33	21.56	2	22
		12	13	21.36	21.43	21.69	2	22
		25	0	21.26	21.27	21.59	2	22
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23060	23095	23130		
		Frequency (MHz)		704	707.5	711		
10M	QPSK	1	0	23.14	23.18	23.49	0	24
		1	24	23.39	23.43	23.74	0	24
		1	49	23.01	23.05	23.36	0	24
		25	0	22.37	22.41	22.72	1	23
		25	12	22.26	22.30	22.61	1	23
		25	25	22.16	22.20	22.51	1	23
		50	0	22.25	22.29	22.60	1	23
	16QAM	1	0	22.08	22.12	22.43	1	23
		1	24	22.21	22.25	22.56	1	23
		1	49	21.99	22.03	22.34	1	23
		25	0	21.35	21.39	21.70	2	22
		25	12	21.29	21.33	21.64	2	22
		25	25	21.43	21.47	21.78	2	22
		50	0	21.26	21.30	21.61	2	22

LTE Band 13								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23205	23230	23255		
		Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0	23.13	23.17	23.20	0	24
		1	12	23.22	23.26	23.29	0	24
		1	24	23.17	23.21	23.24	0	24
		12	0	22.23	22.27	22.30	1	23
		12	6	22.14	22.18	22.21	1	23
		12	13	22.16	22.20	22.23	1	23
		25	0	22.20	22.24	22.27	1	23
	16QAM	1	0	22.34	22.38	22.41	1	23
		1	12	22.01	22.05	22.08	1	23
		1	24	21.97	22.01	22.04	1	23
		12	0	21.16	21.20	21.23	2	22
		12	6	21.19	21.23	21.26	2	22
		12	13	21.00	21.04	21.07	2	22
		25	0	21.23	21.27	21.30	2	22
BW	MCS Index	RB Size	RB Offset	Mid		3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel		23230				
		Frequency (MHz)		782				
10M	QPSK	1	0	23.25		0	24	
		1	24	23.34		0	24	
		1	49	23.29		0	24	
		25	0	22.35		1	23	
		25	12	22.26		1	23	
		25	25	22.28		1	23	
		50	0	22.32		1	23	
	16QAM	1	0	22.46		1	23	
		1	24	22.13		1	23	
		1	49	22.09		1	23	
		25	0	21.28		2	22	
		25	12	21.31		2	22	
		25	25	21.12		2	22	
		50	0	21.35		2	22	

LTE Band 17								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23755	23790	23825		
		Frequency (MHz)		706.5	710	713.5		
5M	QPSK	1	0	23.31	23.03	23.22	0	24
		1	12	23.34	23.14	23.16	0	24
		1	24	23.40	23.20	23.26	0	24
		12	0	22.51	22.26	22.38	1	23
		12	6	22.49	22.27	22.47	1	23
		12	13	22.52	22.19	22.35	1	23
		25	0	22.43	22.13	22.28	1	23
	16QAM	1	0	22.25	21.98	22.15	1	23
		1	12	22.36	22.13	22.24	1	23
		1	24	22.25	21.98	22.13	1	23
		12	0	21.45	21.23	21.36	2	22
		12	6	21.47	21.24	21.32	2	22
		12	13	21.32	21.17	21.25	2	22
		25	0	21.39	21.19	21.32	2	22
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23780	23790	23800		
		Frequency (MHz)		709	710	711		
10M	QPSK	1	0	23.34	23.11	23.22	0	24
		1	24	23.38	23.15	23.26	0	24
		1	49	23.46	23.23	23.34	0	24
		25	0	22.54	22.31	22.42	1	23
		25	12	22.59	22.36	22.47	1	23
		25	25	22.52	22.29	22.40	1	23
		50	0	22.45	22.22	22.33	1	23
	16QAM	1	0	22.29	22.06	22.17	1	23
		1	24	22.36	22.13	22.24	1	23
		1	49	22.29	22.06	22.17	1	23
		25	0	21.51	21.28	21.39	2	22
		25	12	21.47	21.24	21.35	2	22
		25	25	21.40	21.17	21.28	2	22
		50	0	21.47	21.24	21.35	2	22

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37775	38000	38225		
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	21.75	21.54	21.73	0	23
		1	12	21.81	21.55	21.80	0	23
		1	24	21.55	21.29	21.51	0	23
		12	0	21.17	20.93	21.27	1	22
		12	6	20.59	20.48	20.59	1	22
		12	13	20.74	20.46	20.63	1	22
		25	0	20.78	20.49	20.67	1	22
	16QAM	1	0	20.28	20.07	20.34	1	22
		1	12	20.70	20.43	20.60	1	22
		1	24	20.35	20.19	20.52	1	22
		12	0	19.75	19.63	19.93	2	21
		12	6	20.08	20.06	20.29	2	21
		12	13	20.03	19.84	20.09	2	21
		25	0	20.20	19.87	20.33	2	21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37800	38000	38200		
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0	21.65	21.46	21.78	0	23
		1	24	21.93	21.67	21.84	0	23
		1	49	21.50	21.27	21.54	0	23
		25	0	21.10	20.93	21.20	1	22
		25	12	20.68	20.47	20.87	1	22
		25	25	20.67	20.45	20.78	1	22
		50	0	20.80	20.48	20.81	1	22
	16QAM	1	0	20.34	20.09	20.33	1	22
		1	24	20.57	20.43	20.75	1	22
		1	49	20.44	20.28	20.42	1	22
		25	0	19.78	19.58	19.87	2	21
		25	12	20.25	19.95	20.26	2	21
		25	25	20.09	19.83	20.12	2	21
		50	0	20.24	20.07	20.32	2	21



LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37825	38000	38175		
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	21.80	21.58	21.82	0	23
		1	37	21.92	21.64	21.96	0	23
		1	74	21.60	21.33	21.62	0	23
		36	0	21.20	20.94	21.30	1	22
		36	19	20.77	20.60	20.86	1	22
		36	39	20.73	20.52	20.81	1	22
		75	0	20.80	20.53	20.82	1	22
	16QAM	1	0	20.36	20.12	20.48	1	22
		1	37	20.76	20.47	20.79	1	22
		1	74	20.50	20.28	20.65	1	22
		36	0	19.88	19.63	19.93	2	21
		36	19	20.28	20.04	20.33	2	21
		36	39	20.14	19.96	20.19	2	21
		75	0	20.33	20.07	20.32	2	21
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	21.84	21.62	21.91	0	23
		1	50	21.94	21.72	22.01	0	23
		1	99	21.62	21.40	21.69	0	23
		50	0	21.25	21.03	21.32	1	22
		50	25	20.83	20.61	20.90	1	22
		50	50	20.78	20.56	20.85	1	22
		100	0	20.84	20.62	20.91	1	22
	16QAM	1	0	20.44	20.22	20.51	1	22
		1	50	20.76	20.54	20.83	1	22
		1	99	20.58	20.36	20.65	1	22
		50	0	19.94	19.72	20.01	2	21
		50	25	20.31	20.09	20.38	2	21
		50	50	20.20	19.98	20.27	2	21
		100	0	20.33	20.11	20.40	2	21

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40165	40545	40865	41215		
		Frequency (MHz)		2547.5	2582.5	2617.5	2652.5		
5M	QPSK	1	0	21.92	21.77	21.64	21.66	0	23
		1	12	22.13	21.91	21.76	21.91	0	23
		1	24	21.71	21.42	21.30	21.34	0	23
		12	0	20.86	20.69	20.49	20.59	1	22
		12	6	20.65	20.56	20.35	20.43	1	22
		12	13	20.73	20.57	20.47	20.53	1	22
		25	0	20.79	20.61	20.44	20.53	1	22
	16QAM	1	0	20.85	20.68	20.54	20.70	1	22
		1	12	21.18	20.93	20.77	20.90	1	22
		1	24	20.70	20.41	20.34	20.41	1	22
		12	0	19.84	19.64	19.56	19.66	2	21
		12	6	19.68	19.48	19.40	19.47	2	21
		12	13	19.80	19.64	19.45	19.55	2	21
		25	0	19.80	19.63	19.44	19.59	2	21
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40190	40520	40850	41190		
		Frequency (MHz)		2550	2583	2616	2650		
10M	QPSK	1	0	21.99	21.75	21.61	21.67	0	23
		1	24	22.08	21.96	21.79	21.86	0	23
		1	49	21.60	21.42	21.37	21.36	0	23
		25	0	20.92	20.74	20.56	20.59	1	22
		25	12	20.75	20.57	20.32	20.41	1	22
		25	25	20.76	20.60	20.46	20.52	1	22
		50	0	20.78	20.75	20.52	20.57	1	22
	16QAM	1	0	20.91	20.75	20.64	20.63	1	22
		1	24	21.09	21.04	20.78	20.91	1	22
		1	49	20.55	20.48	20.33	20.37	1	22
		25	0	19.86	19.70	19.50	19.68	2	21
		25	12	19.73	19.58	19.33	19.36	2	21
		25	25	19.76	19.58	19.46	19.46	2	21
		50	0	19.82	19.76	19.52	19.58	2	21

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40215	40530	40845	41165		
		Frequency (MHz)		2552.5	2584	2615.5	2647.5		
15M	QPSK	1	0	21.94	21.80	21.67	21.73	0	23
		1	37	22.20	22.04	21.92	21.87	0	23
		1	74	21.67	21.58	21.36	21.36	0	23
		36	0	20.96	20.80	20.62	20.70	1	22
		36	19	20.81	20.60	20.48	20.54	1	22
		36	39	20.85	20.69	20.56	20.53	1	22
		75	0	20.84	20.74	20.57	20.59	1	22
	16QAM	1	0	20.91	20.80	20.67	20.70	1	22
		1	37	21.20	20.99	20.87	20.93	1	22
		1	74	20.69	20.57	20.33	20.43	1	22
		36	0	19.97	19.80	19.61	19.65	2	21
		36	19	19.78	19.56	19.44	19.48	2	21
		36	39	19.80	19.72	19.55	19.53	2	21
		75	0	19.89	19.70	19.59	19.63	2	21
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40240	40540	40840	41140		
		Frequency (MHz)		2555	2585	2615	2645		
20M	QPSK	1	0	22.01	21.85	21.68	21.73	0	23
		1	50	22.25	22.09	21.92	21.97	0	23
		1	99	21.74	21.58	21.41	21.46	0	23
		50	0	20.99	20.83	20.66	20.71	1	22
		50	25	20.82	20.66	20.49	20.54	1	22
		50	50	20.90	20.74	20.57	20.62	1	22
		100	0	20.92	20.76	20.59	20.64	1	22
	16QAM	1	0	20.45	20.29	20.12	20.17	1	22
		1	50	20.62	20.46	20.29	20.34	1	22
		1	99	20.41	20.25	20.08	20.13	1	22
		50	0	19.90	19.74	19.57	19.62	2	21
		50	25	20.13	19.97	19.80	19.85	2	21
		50	50	19.80	19.64	19.47	19.52	2	21
		100	0	19.84	19.68	19.51	19.56	2	21

### EIRP Power

WCDMA Band 4 Mode

Mode		TX channel 1312					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.40	-20.7	17.8	1.0	18.8	30.0	-11.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.40	-11.9	27.3	1.0	28.3	30.0	-1.7

Mode		TX channel 1413					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.60	-20.8	17.9	1.0	18.9	30.0	-11.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.60	-11.8	27.4	1.0	28.4	30.0	-1.6

Mode		TX channel 1513					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.60	-21.1	17.7	1.1	18.8	30.0	-11.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.60	-11.6	27.5	1.1	28.6	30.0	-1.4

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

**Modulation Type: QPSK**

LTE Band 4, Channel Bandwidth: 1.4MHz

Mode		TX channel 19957					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-25.0	13.0	0.7	13.7	30.0	-16.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-11.8	26.0	0.7	26.7	30.0	-3.3

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-24.8	13.6	0.6	14.2	30.0	-15.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.3	27.0	0.6	27.6	30.0	-2.4

Mode		TX channel 20393					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-24.6	14.2	0.5	14.7	30.0	-15.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-11.7	27.2	0.5	27.7	30.0	-2.3

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

LTE Band 4, Channel Bandwidth: 3MHz

Mode		TX channel 19965					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-24.9	13.1	0.7	13.8	30.0	-16.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-11.1	26.7	0.7	27.4	30.0	-2.6

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-24.6	13.8	0.6	14.4	30.0	-15.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.2	27.1	0.6	27.7	30.0	-2.3

Mode		TX channel 20385					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-24.7	14.1	0.5	14.6	30.0	-15.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-11.1	27.8	0.5	28.3	30.0	-1.7

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

LTE Band 4, Channel Bandwidth: 5MHz

Mode		TX channel 19975					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-24.6	13.5	0.7	14.2	30.0	-15.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-11.4	26.5	0.7	27.2	30.0	-2.8

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-24.9	13.5	0.6	14.1	30.0	-15.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.3	27.0	0.6	27.6	30.0	-2.4

Mode		TX channel 20375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-24.7	14.1	0.5	14.6	30.0	-15.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-11.1	27.7	0.5	28.2	30.0	-1.8

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

LTE Band 4, Channel Bandwidth: 10MHz

Mode		TX channel 20000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-25.2	12.9	0.7	13.6	30.0	-16.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-11.5	26.4	0.7	27.1	30.0	-2.9

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.1	13.3	0.6	13.9	30.0	-16.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.4	26.9	0.6	27.5	30.0	-2.5

Mode		TX channel 20350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-24.7	14.1	0.5	14.6	30.0	-15.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-11.3	27.5	0.5	28.0	30.0	-2.0

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



LTE Band 4, Channel Bandwidth: 15MHz

Mode		TX channel 20025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-25.0	13.1	0.7	13.8	30.0	-16.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-11.2	26.8	0.7	27.5	30.0	-2.5

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-24.5	13.9	0.6	14.5	30.0	-15.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.7	26.6	0.6	27.2	30.0	-2.8

Mode		TX channel 20325					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-24.7	14.0	0.5	14.5	30.0	-15.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-11.6	27.1	0.5	27.6	30.0	-2.4

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

LTE Band 4, Channel Bandwidth: 20MHz

Mode		TX channel 20050					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-24.9	13.3	0.7	14.0	30.0	-16.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-11.4	26.6	0.7	27.3	30.0	-2.7

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.1	13.3	0.6	13.9	30.0	-16.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-11.2	27.1	0.6	27.7	30.0	-2.3

Mode		TX channel 20300					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.8	13.9	0.5	14.4	30.0	-15.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-11.0	27.7	0.5	28.2	30.0	-1.8

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

LTE Band 7, Channel Bandwidth: 5MHz

Mode		TX channel 20775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-22.2	19.3	0.2	19.5	33.0	-13.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-16.2	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.8	19.9	0.2	20.1	33.0	-12.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-16.3	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 21425					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-21.9	20.1	0.2	20.3	33.0	-12.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-15.7	28.0	0.2	28.2	33.0	-4.8

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

LTE Band 7, Channel Bandwidth: 10MHz

Mode		TX channel 20800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-22.3	19.2	0.2	19.4	33.0	-13.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-16.0	27.5	0.2	27.7	33.0	-5.3

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.8	19.9	0.2	20.1	33.0	-12.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-15.9	27.7	0.2	27.9	33.0	-5.1

Mode		TX channel 21400					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-22.0	20.0	0.2	20.2	33.0	-12.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-15.8	27.9	0.2	28.1	33.0	-4.9

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

LTE Band 7, Channel Bandwidth: 15MHz

Mode		TX channel 20825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-22.2	19.3	0.2	19.5	33.0	-13.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-15.6	27.9	0.2	28.1	33.0	-4.9

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.3	19.4	0.2	19.6	33.0	-13.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-16.2	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 21375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-22.4	19.6	0.2	19.8	33.0	-13.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-15.8	27.9	0.2	28.1	33.0	-4.9

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

LTE Band 7, Channel Bandwidth: 20MHz

Mode		TX channel 20850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-22.1	19.4	0.2	19.6	33.0	-13.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-15.6	27.9	0.2	28.1	33.0	-4.9

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.9	19.8	0.2	20.0	33.0	-13.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-16.0	27.6	0.2	27.8	33.0	-5.2

Mode		TX channel 21350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-22.3	19.6	0.2	19.8	33.0	-13.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-16.3	27.4	0.2	27.6	33.0	-5.4

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

LTE Band 12, Channel Bandwidth: 1.4MHz

MODE		TX channel 23017					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-17.8	6.7	3.5	10.2	34.8	-24.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-12.6	14.9	3.5	18.4	34.8	-16.4

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-18.1	6.6	3.5	10.1	34.8	-24.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-12.4	15.4	3.5	18.9	34.8	-15.9

MODE		TX channel 23173					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-17.7	7.3	3.5	10.8	34.8	-24.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-12.5	15.1	3.5	18.6	34.8	-16.2

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

LTE Band 12, Channel Bandwidth: 3MHz

MODE		TX channel 23025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-17.8	6.7	3.5	10.2	34.8	-24.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-12.7	14.9	3.5	18.4	34.8	-16.4

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-18.1	6.7	3.5	10.2	34.8	-24.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-12.4	15.4	3.5	18.9	34.8	-15.9

MODE		TX channel 23165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-17.7	7.3	3.5	10.8	34.8	-24.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-12.8	14.8	3.5	18.3	34.8	-16.5

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



LTE Band 12, Channel Bandwidth: 5MHz

MODE		TX channel 23035					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-17.7	6.9	3.4	10.3	34.8	-24.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-12.6	15.1	3.4	18.5	34.8	-16.3

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-17.6	7.2	3.5	10.7	34.8	-24.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-12.4	15.4	3.5	18.9	34.8	-15.9

MODE		TX channel 23155					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-17.9	7.1	3.5	10.6	34.8	-24.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-12.4	15.4	3.5	18.9	34.8	-15.9

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

LTE Band 12, Channel Bandwidth: 10MHz

MODE		TX channel 23060					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-17.8	6.9	3.5	10.4	34.8	-24.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-12.8	14.8	3.5	18.3	34.8	-16.5

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-17.6	7.1	3.5	10.6	34.8	-24.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-12.4	15.4	3.5	18.9	34.8	-15.9

MODE		TX channel 23130					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-17.6	7.4	3.5	10.9	34.8	-23.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-12.6	15.0	3.5	18.5	34.8	-16.3

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

LTE Band 13, Channel Bandwidth: 5MHz

MODE		TX channel 23205					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-17.3	8.7	4.0	12.7	34.8	-22.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-8.3	19.8	4.0	23.8	34.8	-11.0

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-17.4	8.6	4.0	12.6	34.8	-22.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-8.5	19.4	4.0	23.4	34.8	-11.4

MODE		TX channel 23255					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-17.1	9.0	4.0	13.0	34.8	-21.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-8.7	19.2	4.0	23.2	34.8	-11.6

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

LTE Band 13, Channel Bandwidth: 10MHz

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-17.6	8.4	4.0	12.4	34.8	-22.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-8.4	19.5	4.0	23.5	34.8	-11.3

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

LTE Band 17, Channel Bandwidth: 5MHz

MODE		TX channel 23755					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-18.6	6.2	3.5	9.7	34.8	-25.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-11.8	15.8	3.5	19.3	34.8	-15.5

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-18.0	6.9	3.5	10.4	34.8	-24.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-11.5	16.1	3.5	19.6	34.8	-15.2

MODE		TX channel 23825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-18.4	6.6	3.5	10.1	34.8	-24.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-11.4	16.4	3.5	19.9	34.8	-14.9

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

LTE Band 17, Channel Bandwidth: 10MHz

MODE		TX channel 23780					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-17.9	6.8	3.5	10.3	34.8	-24.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-11.2	16.4	3.5	19.9	34.8	-14.9

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-17.8	7.1	3.5	10.6	34.8	-24.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-11.3	16.3	3.5	19.8	34.8	-15.0

MODE		TX channel 23800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-18.1	6.9	3.5	10.4	34.8	-24.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-11.4	16.2	3.5	19.7	34.8	-15.1

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

LTE Band 38, Channel Bandwidth: 5MHz

Mode		TX channel 37775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-26.1	15.9	0.2	16.1	33.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-16.3	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.5	15.7	0.2	15.9	33.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-16.9	26.9	0.2	27.1	33.0	-5.9

Mode		TX channel 38225					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-26.8	15.6	0.2	15.8	33.0	-17.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-16.6	27.2	0.2	27.4	33.0	-5.6

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

LTE Band 38, Channel Bandwidth: 10MHz

Mode		TX channel 37800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-26.2	15.9	0.2	16.1	33.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-16.3	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.7	15.5	0.2	15.7	33.0	-17.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-16.9	26.9	0.2	27.1	33.0	-5.9

Mode		TX channel 38200					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-27.0	15.4	0.2	15.6	33.0	-17.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-16.9	26.9	0.2	27.1	33.0	-5.9

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



LTE Band 38, Channel Bandwidth: 15MHz

Mode		TX channel 37825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-26.2	15.9	0.2	16.1	33.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-16.6	27.1	0.2	27.3	33.0	-5.7

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.5	15.7	0.2	15.9	33.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-16.4	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 38175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-26.8	15.6	0.2	15.8	33.0	-17.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-16.7	27.1	0.2	27.3	33.0	-5.7

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

LTE Band 38, Channel Bandwidth: 20MHz

Mode		TX channel 37850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-26.4	15.8	0.1	15.9	33.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-16.7	27.1	0.1	27.2	33.0	-5.8

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.5	15.7	0.2	15.9	33.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-16.5	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 38150					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-26.8	15.6	0.2	15.8	33.0	-17.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-16.4	27.4	0.2	27.6	33.0	-5.4

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

LTE Band 41, Channel Bandwidth: 5MHz

Mode		TX channel 40165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-20.3	21.5	0.2	21.7	33.0	-11.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-15.6	28.0	0.2	28.2	33.0	-4.8

Mode		TX channel 40545					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2582.50	-20.7	21.5	0.1	21.6	33.0	-11.4
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2582.50	-15.8	28.1	0.1	28.2	33.0	-4.8

Mode		TX channel 40865					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-21.4	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-16.1	27.7	0.2	27.9	33.0	-5.1

Mode		TX channel 41215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-21.4	21.2	0.3	21.5	33.0	-11.5
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-16.2	27.5	0.3	27.8	33.0	-5.2

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

LTE Band 41, Channel Bandwidth: 10MHz

Mode		TX channel 40190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-20.9	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-15.8	27.9	0.2	28.1	33.0	-4.9

Mode		TX channel 40520					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2583.00	-20.7	21.5	0.1	21.6	33.0	-11.4
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2583.00	-16.3	27.6	0.1	27.7	33.0	-5.3

Mode		TX channel 40850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2616.00	-21.4	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2616.00	-16.2	27.6	0.2	27.8	33.0	-5.2

Mode		TX channel 41190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-21.2	21.4	0.3	21.7	33.0	-11.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-16.3	27.4	0.3	27.7	33.0	-5.3

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

LTE Band 41, Channel Bandwidth: 15MHz

Mode		TX channel 40215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-20.9	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-15.9	27.8	0.2	28.0	33.0	-5.0

Mode		TX channel 40530					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2584.00	-20.8	21.3	0.2	21.5	33.0	-11.5
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2584.00	-15.8	28.0	0.2	28.2	33.0	-4.8

Mode		TX channel 40845					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.50	-21.4	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.50	-15.8	28.0	0.2	28.2	33.0	-4.8

Mode		TX channel 41165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-21.5	21.1	0.3	21.4	33.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-16.1	27.6	0.3	27.9	33.0	-5.1

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

LTE Band 41, Channel Bandwidth: 20MHz

Mode		TX channel 40240					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-20.6	21.3	0.2	21.5	33.0	-11.5
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-16.0	27.7	0.2	27.9	33.0	-5.1

Mode		TX channel 40540					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2585.00	-20.9	21.2	0.2	21.4	33.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2585.00	-15.8	28.0	0.2	28.2	33.0	-4.8

Mode		TX channel 40840					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-21.2	21.2	0.2	21.4	33.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-16.2	27.6	0.2	27.8	33.0	-5.2

Mode		TX channel 41140					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-21.6	21.0	0.3	21.3	33.0	-11.7
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-16.3	27.4	0.3	27.7	33.0	-5.3

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

**Modulation Type: 16QAM**

LTE Band 4, Channel Bandwidth: 1.4MHz

Mode		TX channel 19957					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-25.8	12.2	0.7	12.9	30.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-12.5	25.3	0.7	26.0	30.0	-4.0

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.6	12.8	0.6	13.4	30.0	-16.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.1	26.2	0.6	26.8	30.0	-3.2

Mode		TX channel 20393					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-25.4	13.4	0.5	13.9	30.0	-16.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-12.5	26.4	0.5	26.9	30.0	-3.1

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

LTE Band 4, Channel Bandwidth: 3MHz

Mode		TX channel 19965					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-25.7	12.3	0.7	13.0	30.0	-17.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-11.9	25.9	0.7	26.6	30.0	-3.4

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.5	12.9	0.6	13.5	30.0	-16.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.1	26.2	0.6	26.8	30.0	-3.2

Mode		TX channel 20385					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-25.5	13.3	0.5	13.8	30.0	-16.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-11.9	27.0	0.5	27.5	30.0	-2.5

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



LTE Band 4, Channel Bandwidth: 5MHz

Mode		TX channel 19975					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-25.6	12.5	0.7	13.2	30.0	-16.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-12.2	25.7	0.7	26.4	30.0	-3.6

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.6	12.8	0.6	13.4	30.0	-16.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.1	26.2	0.6	26.8	30.0	-3.2

Mode		TX channel 20375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-25.6	13.2	0.5	13.7	30.0	-16.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-11.9	26.9	0.5	27.4	30.0	-2.6

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

LTE Band 4, Channel Bandwidth: 10MHz

Mode		TX channel 20000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-26.0	12.1	0.7	12.8	30.0	-17.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-12.2	25.7	0.7	26.4	30.0	-3.6

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.9	12.5	0.6	13.1	30.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.3	26.0	0.6	26.6	30.0	-3.4

Mode		TX channel 20350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-25.6	13.2	0.5	13.7	30.0	-16.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-12.3	26.5	0.5	27.0	30.0	-3.0

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

LTE Band 4, Channel Bandwidth: 15MHz

Mode		TX channel 20025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-25.9	12.2	0.7	12.9	30.0	-17.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-12.1	25.9	0.7	26.6	30.0	-3.4

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.4	13.0	0.6	13.6	30.0	-16.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.6	25.7	0.6	26.3	30.0	-3.7

Mode		TX channel 20325					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-25.7	13.0	0.5	13.5	30.0	-16.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-12.4	26.3	0.5	26.8	30.0	-3.2

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

LTE Band 4, Channel Bandwidth: 20MHz

Mode		TX channel 20050					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-25.8	12.4	0.7	13.1	30.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-12.3	25.7	0.7	26.4	30.0	-3.6

Mode		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-25.9	12.5	0.6	13.1	30.0	-16.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-12.0	26.3	0.6	26.9	30.0	-3.1

Mode		TX channel 20300					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.7	13.0	0.5	13.5	30.0	-16.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-11.9	26.8	0.5	27.3	30.0	-2.7

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

LTE Band 7, Channel Bandwidth: 5MHz

Mode		TX channel 20775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-23.1	18.4	0.2	18.6	33.0	-14.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-16.9	26.6	0.2	26.8	33.0	-6.2

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.7	19.0	0.2	19.2	33.0	-13.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-17.1	26.5	0.2	26.7	33.0	-6.3

Mode		TX channel 21425					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-22.8	19.2	0.2	19.4	33.0	-13.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-16.6	27.1	0.2	27.3	33.0	-5.7

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

LTE Band 7, Channel Bandwidth: 10MHz

Mode		TX channel 20800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-23.2	18.3	0.2	18.5	33.0	-14.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-16.9	26.6	0.2	26.8	33.0	-6.2

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.6	19.1	0.2	19.3	33.0	-13.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-16.8	26.8	0.2	27.0	33.0	-6.0

Mode		TX channel 21400					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-22.9	19.1	0.2	19.3	33.0	-13.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-16.7	27.0	0.2	27.2	33.0	-5.8

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

LTE Band 7, Channel Bandwidth: 15MHz

Mode		TX channel 20825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-23.0	18.5	0.2	18.7	33.0	-14.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-16.1	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-23.1	18.6	0.2	18.8	33.0	-14.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-17.1	26.5	0.2	26.7	33.0	-6.3

Mode		TX channel 21375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-23.3	18.7	0.2	18.9	33.0	-14.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-16.7	27.0	0.2	27.2	33.0	-5.8

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

LTE Band 7, Channel Bandwidth: 20MHz

Mode		TX channel 20850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-22.9	18.6	0.2	18.8	33.0	-14.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-16.3	27.2	0.2	27.4	33.0	-5.6

Mode		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.9	18.8	0.2	19.0	33.0	-14.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-16.9	26.7	0.2	26.9	33.0	-6.1

Mode		TX channel 21350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-23.1	18.8	0.2	19.0	33.0	-14.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-17.2	26.5	0.2	26.7	33.0	-6.3

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



LTE Band 12, Channel Bandwidth: 1.4MHz

MODE		TX channel 23017					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-18.7	5.8	3.5	9.3	34.8	-25.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-13.6	13.9	3.5	17.4	34.8	-17.4

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-19.1	5.7	3.5	9.2	34.8	-25.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-13.9	13.9	3.5	17.4	34.8	-17.4

MODE		TX channel 23173					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-19.4	5.6	3.5	9.1	34.8	-25.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-13.4	14.2	3.5	17.7	34.8	-17.1

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

LTE Band 12, Channel Bandwidth: 3MHz

MODE		TX channel 23025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-18.5	6.0	3.5	9.5	34.8	-25.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-13.4	14.2	3.5	17.7	34.8	-17.1

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-19.1	5.6	3.5	9.1	34.8	-25.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-13.9	13.8	3.5	17.3	34.8	-17.5

MODE		TX channel 23165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-19.3	5.7	3.5	9.2	34.8	-25.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-13.6	14.0	3.5	17.5	34.8	-17.3

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

LTE Band 12, Channel Bandwidth: 5MHz

MODE		TX channel 23035					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-18.6	6.0	3.4	9.4	34.8	-25.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-13.7	14.0	3.4	17.4	34.8	-17.4

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-18.8	6.0	3.5	9.5	34.8	-25.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-13.8	14.0	3.5	17.5	34.8	-17.3

MODE		TX channel 23155					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-19.4	5.6	3.5	9.1	34.8	-25.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-13.6	14.2	3.5	17.7	34.8	-17.1

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

LTE Band 12, Channel Bandwidth: 10MHz

MODE		TX channel 23060					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-18.8	5.9	3.5	9.4	34.8	-25.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-13.8	13.8	3.5	17.3	34.8	-17.5

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-18.9	5.9	3.5	9.4	34.8	-25.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-13.6	14.2	3.5	17.7	34.8	-17.1

MODE		TX channel 23130					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-18.9	6.1	3.5	9.6	34.8	-25.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-13.6	14.0	3.5	17.5	34.8	-17.3

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

LTE Band 13, Channel Bandwidth: 5MHz

MODE		TX channel 23205					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-18.2	7.8	4.0	11.8	34.8	-23.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-9.7	18.4	4.0	22.4	34.8	-12.4

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-18.3	7.7	4.0	11.7	34.8	-23.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-9.4	18.5	4.0	22.5	34.8	-12.3

MODE		TX channel 23255					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-18.7	7.4	4.0	11.4	34.8	-23.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-9.2	18.7	4.0	22.7	34.8	-12.1

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

LTE Band 13, Channel Bandwidth: 10MHz

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-18.3	7.7	4.0	11.7	34.8	-23.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-9.4	18.5	4.0	22.5	34.8	-12.3

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

LTE Band 17, Channel Bandwidth: 5MHz

MODE		TX channel 23755					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-19.2	5.5	3.5	9.0	34.8	-25.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-12.5	15.1	3.5	18.6	34.8	-16.2

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-19.6	5.3	3.5	8.8	34.8	-26.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-12.4	15.2	3.5	18.7	34.8	-16.1

MODE		TX channel 23825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-19.7	5.3	3.5	8.8	34.8	-26.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-12.8	15.0	3.5	18.5	34.8	-16.3

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

LTE Band 17, Channel Bandwidth: 10MHz

MODE		TX channel 23780					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-19.2	5.5	3.5	9.0	34.8	-25.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-12.3	15.3	3.5	18.8	34.8	-16.0

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-19.5	5.4	3.5	8.9	34.8	-25.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-12.4	15.2	3.5	18.7	34.8	-16.1

MODE		TX channel 23800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-19.4	5.6	3.5	9.1	34.8	-25.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-12.5	15.1	3.5	18.6	34.8	-16.2

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



LTE Band 38, Channel Bandwidth: 5MHz

Mode		TX channel 37775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-27.1	14.9	0.2	15.1	33.0	-17.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.10	-17.3	26.4	0.2	26.6	33.0	-6.4

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.9	15.3	0.2	15.5	33.0	-17.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-17.3	26.5	0.2	26.7	33.0	-6.3

Mode		TX channel 38225					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-27.1	15.3	0.2	15.5	33.0	-17.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-17.0	26.8	0.2	27.0	33.0	-6.0

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

LTE Band 38, Channel Bandwidth: 10MHz

Mode		TX channel 37800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-26.9	15.2	0.2	15.4	33.0	-17.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-17.3	26.4	0.2	26.6	33.0	-6.4

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-27.1	15.1	0.2	15.3	33.0	-17.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-17.1	26.7	0.2	26.9	33.0	-6.1

Mode		TX channel 38200					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-27.1	15.3	0.2	15.5	33.0	-17.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-16.9	26.9	0.2	27.1	33.0	-5.9

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

LTE Band 38, Channel Bandwidth: 15MHz

Mode		TX channel 37825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-27.0	15.1	0.2	15.3	33.0	-17.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-17.0	26.7	0.2	26.9	33.0	-6.1

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-27.1	15.1	0.2	15.3	33.0	-17.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-17.1	26.7	0.2	26.9	33.0	-6.1

Mode		TX channel 38175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-27.2	15.2	0.2	15.4	33.0	-17.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-17.3	26.5	0.2	26.7	33.0	-6.3

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

LTE Band 38, Channel Bandwidth: 20MHz

Mode		TX channel 37850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-27.2	15.0	0.1	15.1	33.0	-17.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-17.3	26.5	0.1	26.6	33.0	-6.4

Mode		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-26.8	15.4	0.2	15.6	33.0	-17.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-17.4	26.4	0.2	26.6	33.0	-6.4

Mode		TX channel 38150					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-27.0	15.4	0.2	15.6	33.0	-17.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-17.1	26.7	0.2	26.9	33.0	-6.1

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

LTE Band 41, Channel Bandwidth: 5MHz

Mode		TX channel 40165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-20.9	20.9	0.2	21.1	33.0	-11.9
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-16.2	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 40545					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2582.50	-21.1	21.1	0.1	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2582.50	-16.6	27.3	0.1	27.4	33.0	-5.6

Mode		TX channel 40865					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-22.0	20.6	0.2	20.8	33.0	-12.2
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-16.5	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 41215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-22.1	20.5	0.3	20.8	33.0	-12.2
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-16.5	27.2	0.3	27.5	33.0	-5.5

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

LTE Band 41, Channel Bandwidth: 10MHz

Mode		TX channel 40190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-21.0	20.9	0.2	21.1	33.0	-11.9
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-16.3	27.4	0.2	27.6	33.0	-5.4

Mode		TX channel 40520					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2583.00	-21.4	20.8	0.1	20.9	33.0	-12.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2583.00	-16.8	27.1	0.1	27.2	33.0	-5.8

Mode		TX channel 40850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2616.00	-21.4	21.0	0.2	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2616.00	-16.7	27.1	0.2	27.3	33.0	-5.7

Mode		TX channel 41190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-21.7	20.9	0.3	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-16.4	27.3	0.3	27.6	33.0	-5.4

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

LTE Band 41, Channel Bandwidth: 15MHz

Mode		TX channel 40215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-21.4	20.5	0.2	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-16.2	27.5	0.2	27.7	33.0	-5.3

Mode		TX channel 40530					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2584.00	-20.9	21.2	0.2	21.4	33.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2584.00	-16.7	27.1	0.2	27.3	33.0	-5.7

Mode		TX channel 40845					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.50	-21.6	20.8	0.2	21.0	33.0	-12.0
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.50	-16.3	27.5	0.2	27.7	33.0	-5.3

Mode		TX channel 41165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-21.7	20.9	0.3	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-16.3	27.4	0.3	27.7	33.0	-5.3

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

LTE Band 41, Channel Bandwidth: 20MHz

Mode		TX channel 40240					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-21.2	20.7	0.2	20.9	33.0	-12.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-16.4	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 40540					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2585.00	-21.5	20.6	0.2	20.8	33.0	-12.2
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2585.00	-16.5	27.3	0.2	27.5	33.0	-5.5

Mode		TX channel 40840					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-21.7	20.7	0.2	20.9	33.0	-12.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-16.8	27.0	0.2	27.2	33.0	-5.8

Mode		TX channel 41140					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-22.1	20.5	0.3	20.8	33.0	-12.2
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-16.3	27.4	0.3	27.7	33.0	-5.3

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



## 4.2 Modulation Characteristics Measurement

### 4.2.1 Limits of Modulation Characteristics

N/A

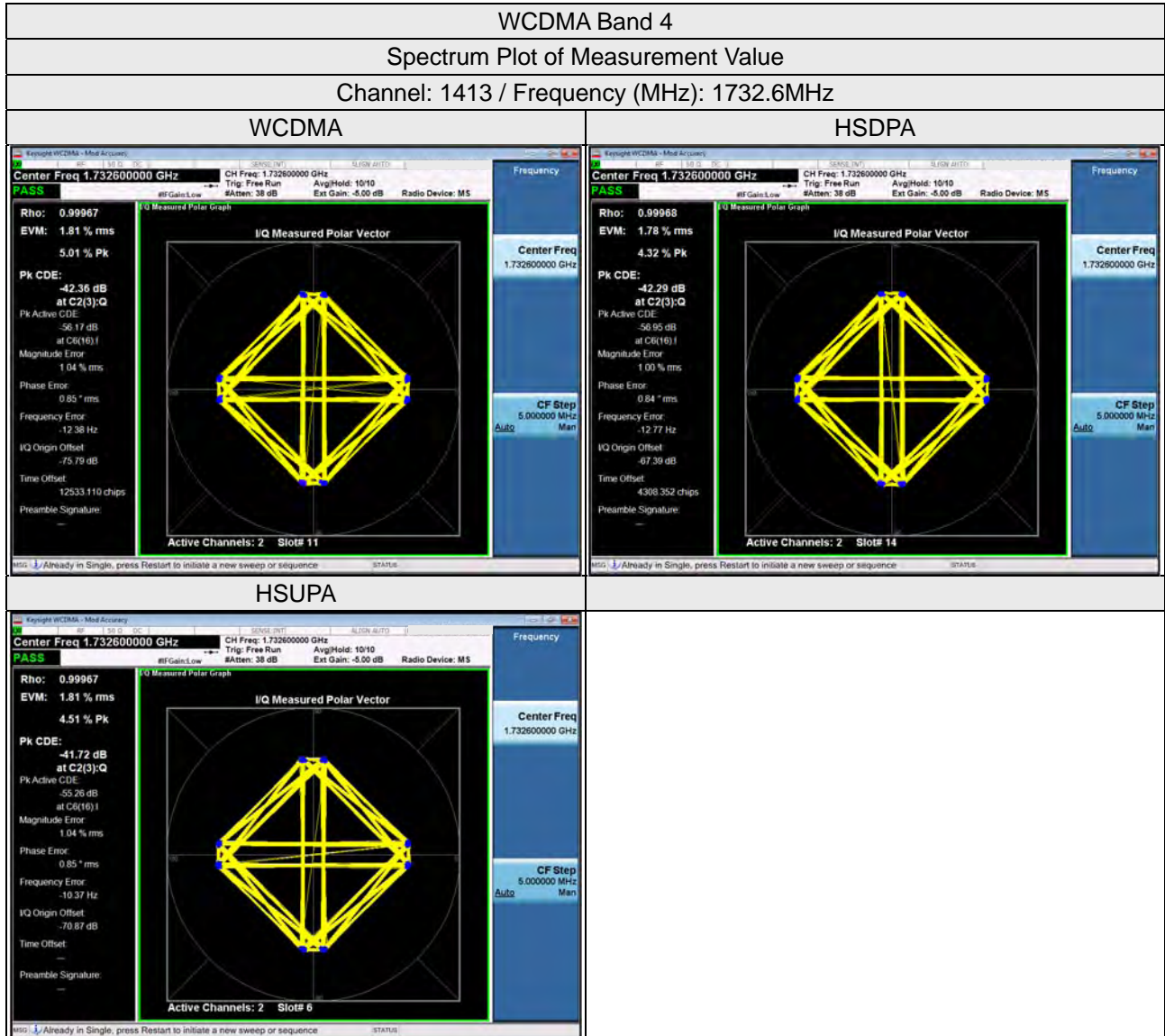
### 4.2.2 Test Procedure

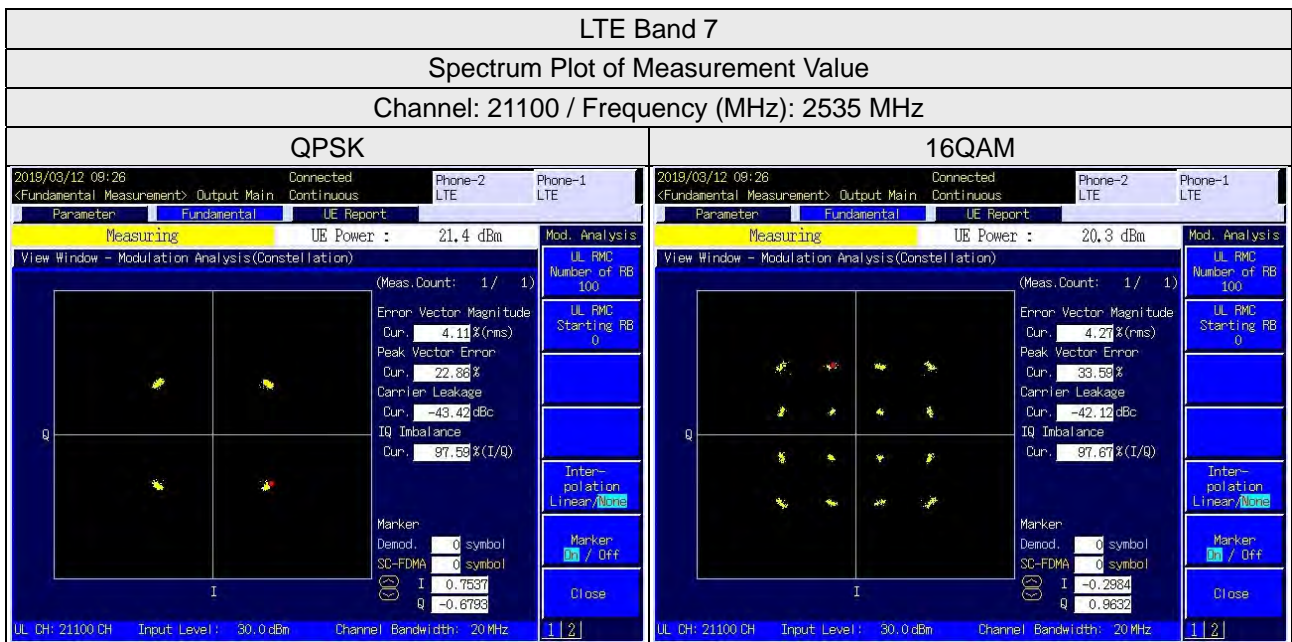
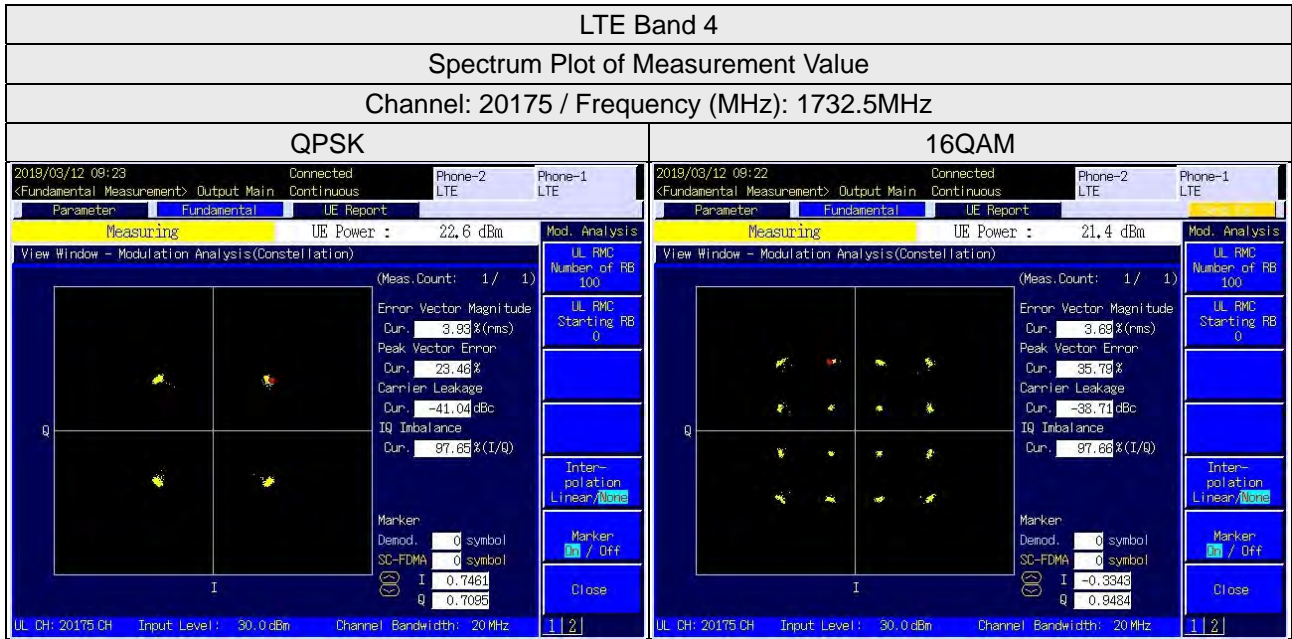
Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

### 4.2.3 Test Setup



### 4.2.4 Test Results

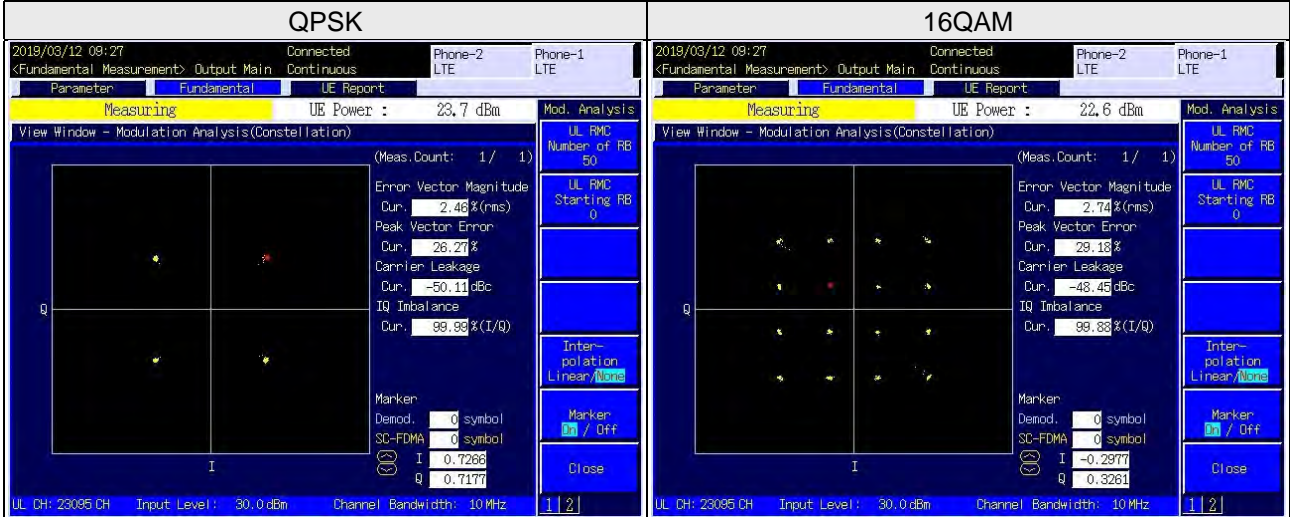




LTE Band 12

Spectrum Plot of Measurement Value

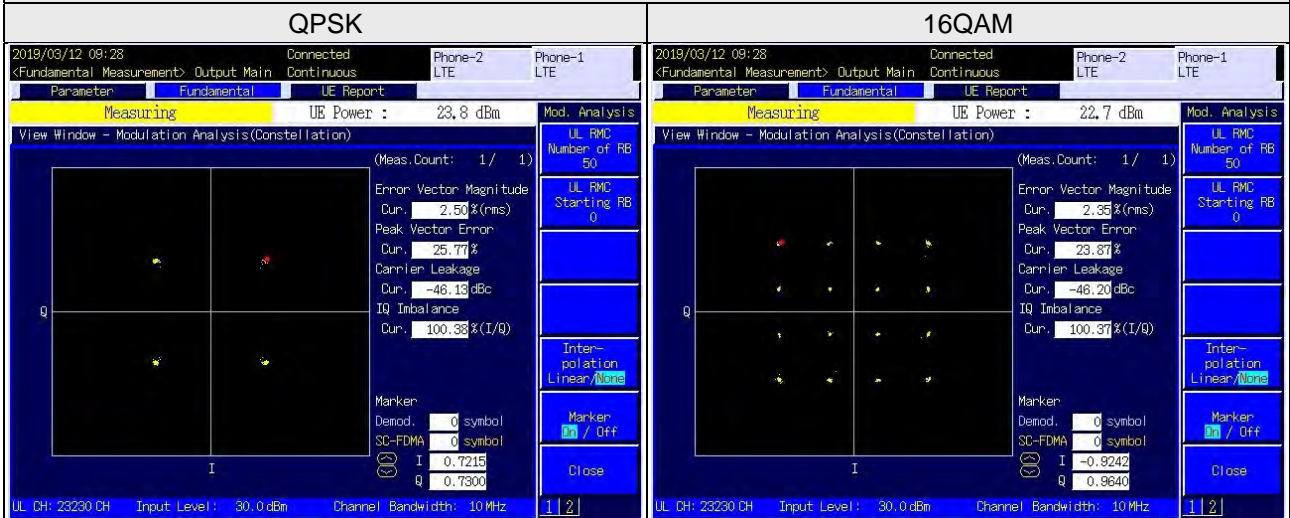
Channel: 23095 / Frequency (MHz): 707.5 MHz



LTE Band 13

Spectrum Plot of Measurement Value

Channel: 23230 / Frequency (MHz): 782.0MHz



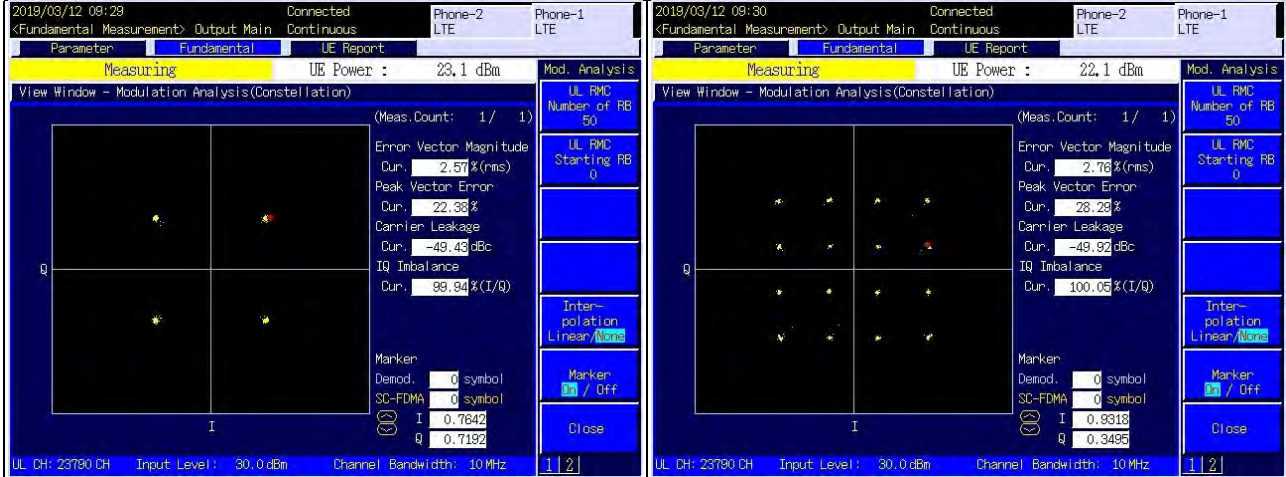
LTE Band 17

Spectrum Plot of Measurement Value

Channel: 23790 / Frequency (MHz): 710.0MHz

QPSK

16QAM



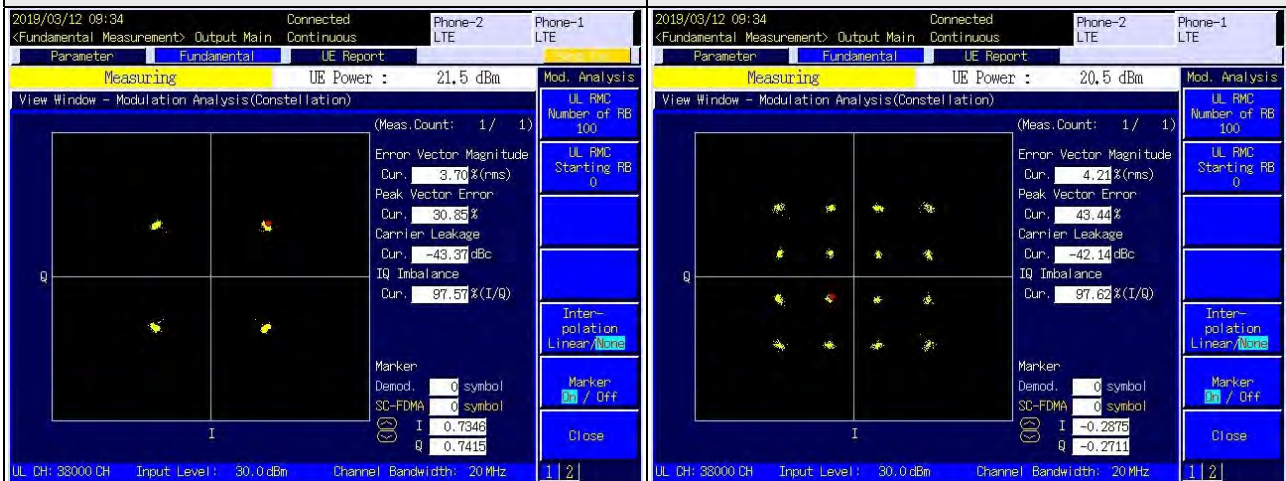
LTE Band 38

Spectrum Plot of Measurement Value

Channel: 38000 / Frequency (MHz): 2595.0 MHz

QPSK

16QAM



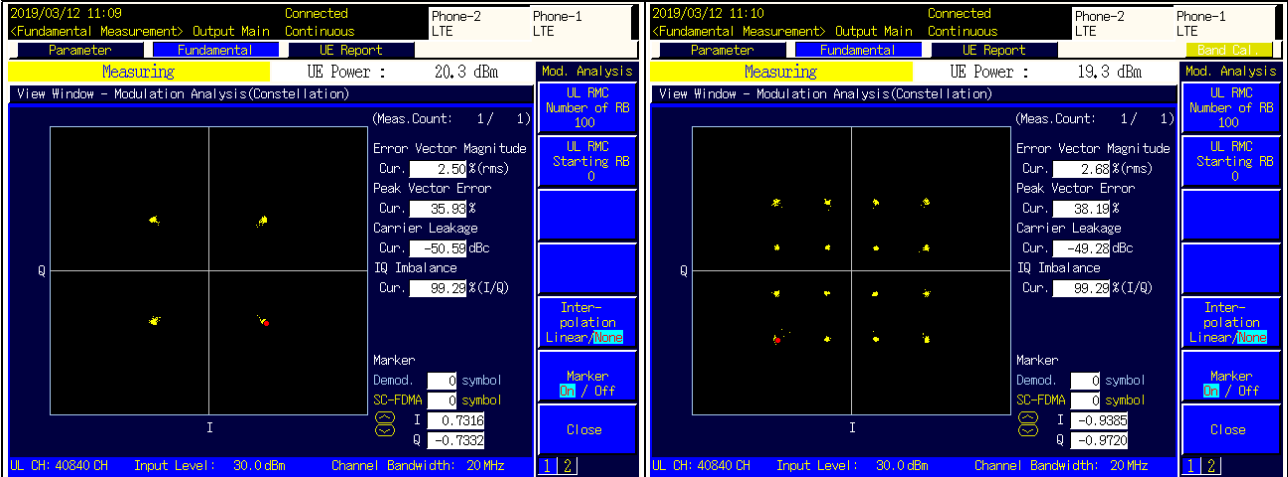
LTE Band 41

Spectrum Plot of Measurement Value

Channel: 40840 / Frequency (MHz): 2615.0 MHz

QPSK

16QAM



### 4.3 Frequency Stability Measurement

#### 4.3.1 Limits of Frequency Stability Measurement

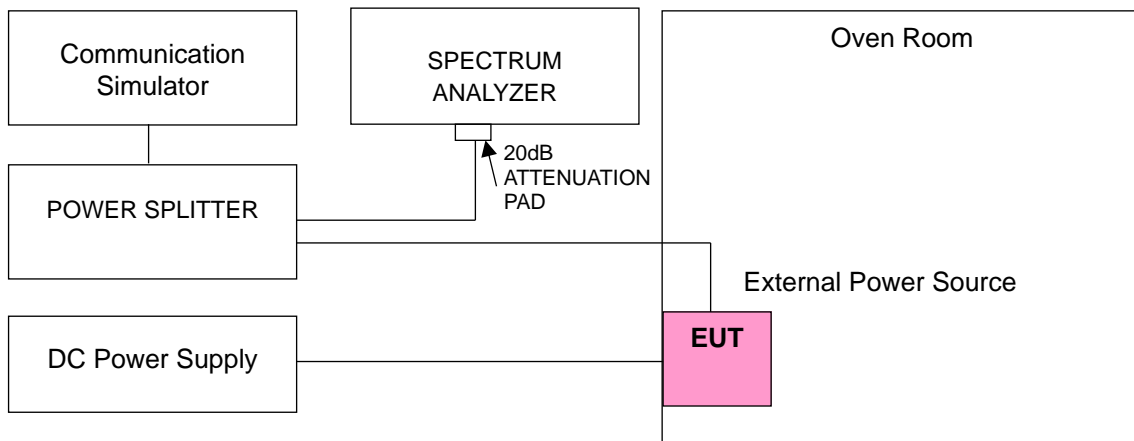
According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT  $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$ .

#### 4.3.2 Test Procedure

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

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

#### 4.3.3 Test Setup



#### 4.3.4 Test Results

##### Frequency Error vs. Voltage

Voltage (Volts)	WCDMA Band 4			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1712.400003	0.002	1752.600002	0.001
3.20	1712.400002	0.001	1752.600002	0.001
4.30	1712.400004	0.002	1752.600003	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

##### Frequency Error vs. Temperature

Temp. (°C)	WCDMA Band 4			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.400002	0.001	1752.600002	0.001
-20	1712.400003	0.002	1752.600003	0.002
-10	1712.400003	0.002	1752.600002	0.001
0	1712.400002	0.001	1752.600004	0.002
10	1712.400004	0.002	1752.600004	0.002
20	1712.399996	-0.002	1752.599997	-0.002
30	1712.399996	-0.002	1752.599998	-0.001
40	1712.399996	-0.002	1752.599999	-0.001
50	1712.399998	-0.001	1752.599999	-0.001
60	1712.399996	-0.002	1752.599997	-0.002



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1710.700004	0.002	1754.300004	0.002
3.20	1710.700003	0.002	1754.300004	0.002
4.30	1710.700001	0.001	1754.300002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.700003	0.002	1754.300002	0.001
-20	1710.700003	0.002	1754.300002	0.001
-10	1710.700001	0.001	1754.300003	0.002
0	1710.700004	0.002	1754.300002	0.001
10	1710.700001	0.001	1754.300003	0.002
20	1710.699998	-0.001	1754.299996	-0.002
30	1710.699998	-0.001	1754.299997	-0.002
40	1710.699996	-0.002	1754.299998	-0.001
50	1710.699997	-0.002	1754.299999	-0.001
60	1710.699997	-0.002	1754.299996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1711.500003	0.002	1753.500001	0.001
3.20	1711.500002	0.001	1753.500003	0.002
4.30	1711.500003	0.002	1753.500004	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.500002	0.001	1753.500003	0.002
-20	1711.500002	0.001	1753.500003	0.002
-10	1711.500002	0.001	1753.500001	0.001
0	1711.500004	0.002	1753.500004	0.002
10	1711.500004	0.002	1753.500002	0.001
20	1711.499999	-0.001	1753.499997	-0.001
30	1711.499999	-0.001	1753.499996	-0.002
40	1711.499998	-0.001	1753.499999	-0.001
50	1711.499999	-0.001	1753.499999	-0.001
60	1711.499996	-0.002	1753.499997	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1712.500003	0.002	1752.500004	0.002
3.20	1712.500002	0.001	1752.500002	0.001
4.30	1712.500003	0.002	1752.500004	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500003	0.002	1752.500001	0.001
-20	1712.500004	0.002	1752.500002	0.001
-10	1712.500003	0.002	1752.500003	0.002
0	1712.500004	0.002	1752.500002	0.001
10	1712.500001	0.001	1752.500004	0.002
20	1712.499996	-0.002	1752.499998	-0.001
30	1712.499999	-0.001	1752.499998	-0.001
40	1712.499998	-0.001	1752.499997	-0.002
50	1712.499999	-0.001	1752.499997	-0.002
60	1712.499997	-0.002	1752.499997	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1715.000001	0.001	1750.000001	0.001
3.20	1715.000001	0.001	1750.000004	0.002
4.30	1715.000004	0.002	1750.000004	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000003	0.002	1750.000002	0.001
-20	1715.000003	0.002	1750.000002	0.001
-10	1715.000001	0.001	1750.000002	0.001
0	1715.000002	0.001	1750.000001	0.001
10	1715.000001	0.001	1750.000002	0.001
20	1714.999997	-0.002	1749.999997	-0.002
30	1714.999999	-0.001	1749.999998	-0.001
40	1714.999997	-0.002	1749.999998	-0.001
50	1714.999997	-0.002	1749.999997	-0.002
60	1714.999998	-0.001	1749.999997	-0.002

### Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1717.500002	0.001	1747.500002	0.001
3.20	1717.500001	0.001	1747.500003	0.001
4.30	1717.500001	0.001	1747.500003	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

### Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.500002	0.001	1747.500004	0.002
-20	1717.500003	0.002	1747.500003	0.002
-10	1717.500002	0.001	1747.500001	0.001
0	1717.500002	0.001	1747.500003	0.002
10	1717.500004	0.002	1747.500004	0.002
20	1717.499997	-0.002	1747.499998	-0.001
30	1717.499997	-0.002	1747.499997	-0.002
40	1717.499997	-0.002	1747.499997	-0.002
50	1717.499999	-0.001	1747.499998	-0.001
60	1717.499996	-0.002	1747.499999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	1720.000002	0.001	1745.000003	0.002
3.20	1720.000003	0.002	1745.000003	0.002
4.30	1720.000002	0.001	1745.000002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000003	0.002	1745.000004	0.002
-20	1720.000003	0.002	1745.000002	0.001
-10	1720.000003	0.002	1745.000003	0.002
0	1720.000002	0.001	1745.000004	0.002
10	1720.000003	0.001	1745.000002	0.001
20	1719.999999	-0.001	1744.999998	-0.001
30	1719.999998	-0.001	1744.999996	-0.002
40	1719.999996	-0.002	1744.999996	-0.002
50	1719.999997	-0.002	1744.999998	-0.001
60	1719.999997	-0.002	1744.999996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2502.500004	0.002	2567.500003	0.001
3.20	2502.500002	0.001	2567.500002	0.001
4.30	2502.500002	0.001	2567.500003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2502.500003	0.001	2567.500004	0.001
-20	2502.500003	0.001	2567.500002	0.001
-10	2502.500001	0.000	2567.500004	0.002
0	2502.500003	0.001	2567.500001	0.001
10	2502.500002	0.001	2567.500002	0.001
20	2502.499997	-0.001	2567.499999	0.000
30	2502.499997	-0.001	2567.499996	-0.001
40	2502.499998	-0.001	2567.499997	-0.001
50	2502.499997	-0.001	2567.499999	0.000
60	2502.499997	-0.001	2567.499999	0.000

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2505.000003	0.001	2565.000002	0.001
3.20	2505.000003	0.001	2565.000001	0.001
4.30	2505.000004	0.001	2565.000002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2505.000004	0.001	2565.000003	0.001
-20	2505.000001	0.001	2565.000002	0.001
-10	2505.000004	0.001	2565.000002	0.001
0	2505.000003	0.001	2565.000003	0.001
10	2505.000004	0.002	2565.000004	0.001
20	2504.999997	-0.001	2564.999998	-0.001
30	2504.999998	-0.001	2564.999996	-0.002
40	2504.999997	-0.001	2564.999997	-0.001
50	2504.999999	-0.001	2564.999999	0.000
60	2504.999998	-0.001	2564.999996	-0.001



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2507.500004	0.001	2562.500002	0.001
3.20	2507.500004	0.002	2562.500001	0.001
4.30	2507.500002	0.001	2562.500002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2507.500002	0.001	2562.500001	0.000
-20	2507.500002	0.001	2562.500003	0.001
-10	2507.500001	0.001	2562.500003	0.001
0	2507.500002	0.001	2562.500003	0.001
10	2507.500004	0.001	2562.500004	0.001
20	2507.499998	-0.001	2562.499997	-0.001
30	2507.499998	-0.001	2562.499998	-0.001
40	2507.499998	-0.001	2562.499996	-0.001
50	2507.499996	-0.002	2562.499998	-0.001
60	2507.499998	-0.001	2562.499997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2510.000002	0.001	2560.000003	0.001
3.20	2510.000001	0.001	2560.000001	0.000
4.30	2510.000004	0.002	2560.000003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2510.000003	0.001	2560.000002	0.001
-20	2510.000002	0.001	2560.000003	0.001
-10	2510.000003	0.001	2560.000003	0.001
0	2510.000003	0.001	2560.000002	0.001
10	2510.000002	0.001	2560.000003	0.001
20	2509.999998	-0.001	2559.999999	-0.001
30	2509.999996	-0.002	2559.999999	0.000
40	2509.999997	-0.001	2559.999999	-0.001
50	2509.999997	-0.001	2559.999998	-0.001
60	2509.999999	-0.001	2559.999997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	699.700004	0.006	715.300002	0.003
3.20	699.700001	0.002	715.300003	0.004
4.30	699.700002	0.003	715.300004	0.005

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	699.700001	0.002	715.300004	0.005
-20	699.700003	0.004	715.300004	0.005
-10	699.700002	0.002	715.300003	0.004
0	699.700004	0.006	715.300002	0.002
10	699.700004	0.005	715.300002	0.003
20	699.699997	-0.005	715.299997	-0.004
30	699.699996	-0.006	715.299996	-0.005
40	699.699998	-0.003	715.299997	-0.004
50	699.699996	-0.006	715.299998	-0.003
60	699.699997	-0.004	715.299997	-0.004

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	700.500002	0.002	714.500003	0.004
3.20	700.500003	0.004	714.500004	0.005
4.30	700.500003	0.005	714.500003	0.004

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	700.500004	0.005	714.500002	0.002
-20	700.500001	0.002	714.500002	0.002
-10	700.500003	0.005	714.500004	0.005
0	700.500002	0.003	714.500003	0.004
10	700.500001	0.002	714.500003	0.004
20	700.499997	-0.004	714.499999	-0.002
30	700.499998	-0.003	714.499997	-0.004
40	700.499997	-0.005	714.499998	-0.003
50	700.499996	-0.005	714.499998	-0.003
60	700.499998	-0.003	714.499996	-0.005

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	701.500003	0.004	713.500001	0.001
3.20	701.500003	0.005	713.500003	0.004
4.30	701.500003	0.004	713.500003	0.004

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.500004	0.005	713.500001	0.002
-20	701.500003	0.004	713.500003	0.005
-10	701.500002	0.003	713.500004	0.005
0	701.500002	0.003	713.500002	0.002
10	701.500001	0.002	713.500002	0.003
20	701.499998	-0.004	713.499997	-0.005
30	701.499997	-0.004	713.499999	-0.002
40	701.499996	-0.006	713.499996	-0.005
50	701.499998	-0.003	713.499998	-0.002
60	701.499997	-0.004	713.499998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	704.000004	0.006	711.000004	0.006
3.20	704.000001	0.002	711.000002	0.003
4.30	704.000002	0.003	711.000001	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	704.000004	0.005	711.000002	0.002
-20	704.000004	0.006	711.000002	0.002
-10	704.000003	0.005	711.000002	0.002
0	704.000002	0.002	711.000003	0.004
10	704.000004	0.005	711.000002	0.003
20	703.999997	-0.004	710.999997	-0.004
30	703.999997	-0.004	710.999996	-0.005
40	703.999998	-0.003	710.999999	-0.002
50	703.999997	-0.005	710.999998	-0.003
60	703.999999	-0.002	710.999996	-0.005

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 13			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	779.500003	0.004	784.500003	0.003
3.20	779.500003	0.003	784.500004	0.005
4.30	779.500001	0.002	784.500001	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 13			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	779.500004	0.005	784.500003	0.004
-20	779.500004	0.004	784.500003	0.003
-10	779.500003	0.004	784.500002	0.003
0	779.500002	0.003	784.500002	0.003
10	779.500003	0.004	784.500001	0.001
20	779.499999	-0.002	784.499999	-0.002
30	779.499997	-0.004	784.499997	-0.004
40	779.499998	-0.003	784.499996	-0.005
50	779.499998	-0.002	784.499998	-0.002
60	779.499997	-0.003	784.499996	-0.005

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 13	
	Channel Bandwidth: 10 MHz	
	Frequency (MHz)	Frequency Error (ppm)
3.75	782.000003	0.004
3.20	782.000003	0.003
4.30	782.000002	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 13	
	Channel Bandwidth: 10 MHz	
	Frequency (MHz)	Frequency Error (ppm)
-30	782.000002	0.002
-20	782.000004	0.005
-10	782.000003	0.004
0	782.000004	0.005
10	782.000003	0.004
20	781.999999	-0.001
30	781.999997	-0.004
40	781.999996	-0.005
50	781.999999	-0.002
60	781.999997	-0.004



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 17			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	706.500002	0.002	713.500002	0.002
3.20	706.500004	0.006	713.500003	0.004
4.30	706.500001	0.001	713.500002	0.003

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	706.500002	0.003	713.500003	0.004
-20	706.500003	0.005	713.500001	0.002
-10	706.500003	0.004	713.500004	0.005
0	706.500001	0.002	713.500003	0.004
10	706.500003	0.004	713.500002	0.003
20	706.499996	-0.006	713.499997	-0.004
30	706.499998	-0.003	713.499998	-0.003
40	706.499996	-0.005	713.499999	-0.002
50	706.499998	-0.003	713.499996	-0.005
60	706.499997	-0.005	713.499999	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 17			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	709.000001	0.002	711.000003	0.005
3.20	709.000002	0.003	711.000002	0.003
4.30	709.000004	0.005	711.000003	0.005

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	709.000003	0.004	711.000003	0.005
-20	709.000004	0.006	711.000001	0.002
-10	709.000002	0.002	711.000002	0.003
0	709.000004	0.005	711.000002	0.003
10	709.000004	0.006	711.000004	0.005
20	708.999999	-0.002	710.999998	-0.002
30	708.999996	-0.005	710.999999	-0.002
40	708.999996	-0.006	710.999997	-0.005
50	708.999997	-0.004	710.999996	-0.005
60	708.999998	-0.003	710.999998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2572.500003	0.001	2617.500004	0.001
3.20	2572.500004	0.001	2617.500002	0.001
4.30	2572.500004	0.001	2617.500002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2572.500002	0.001	2617.500004	0.001
-20	2572.500002	0.001	2617.500002	0.001
-10	2572.500003	0.001	2617.500001	0.000
0	2572.500003	0.001	2617.500002	0.001
10	2572.500003	0.001	2617.500004	0.001
20	2572.499998	-0.001	2617.499997	-0.001
30	2572.499996	-0.002	2617.499999	0.000
40	2572.499999	0.000	2617.499999	0.000
50	2572.499996	-0.001	2617.499996	-0.002
60	2572.499997	-0.001	2617.499996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2575.000001	0.000	2615.000004	0.002
3.20	2575.000001	0.001	2615.000001	0.000
4.30	2575.000003	0.001	2615.000004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2575.000003	0.001	2615.000003	0.001
-20	2575.000001	0.001	2615.000001	0.000
-10	2575.000003	0.001	2615.000004	0.001
0	2575.000003	0.001	2615.000002	0.001
10	2575.000003	0.001	2615.000002	0.001
20	2574.999999	0.000	2614.999998	-0.001
30	2574.999996	-0.002	2614.999998	-0.001
40	2574.999997	-0.001	2614.999997	-0.001
50	2574.999999	-0.001	2614.999998	-0.001
60	2574.999996	-0.001	2614.999997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2577.500003	0.001	2612.500004	0.001
3.20	2577.500004	0.001	2612.500001	0.000
4.30	2577.500003	0.001	2612.500004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2577.500004	0.001	2612.500003	0.001
-20	2577.500004	0.002	2612.500003	0.001
-10	2577.500003	0.001	2612.500002	0.001
0	2577.500002	0.001	2612.500003	0.001
10	2577.500003	0.001	2612.500003	0.001
20	2577.499998	-0.001	2612.499996	-0.001
30	2577.499997	-0.001	2612.499997	-0.001
40	2577.499998	-0.001	2612.499998	-0.001
50	2577.499996	-0.001	2612.499999	-0.001
60	2577.499997	-0.001	2612.499999	0.000

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2580.000004	0.001	2610.000004	0.001
3.20	2580.000004	0.001	2610.000003	0.001
4.30	2580.000003	0.001	2610.000000	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2580.000003	0.001	2610.000002	0.001
-20	2580.000003	0.001	2610.000002	0.001
-10	2580.000002	0.001	2610.000003	0.001
0	2580.000001	0.001	2610.000001	0.001
10	2580.000003	0.001	2610.000004	0.002
20	2579.999998	-0.001	2609.999999	0.000
30	2579.999998	-0.001	2609.999999	0.000
40	2579.999998	-0.001	2609.999999	-0.001
50	2579.999997	-0.001	2609.999997	-0.001
60	2579.999996	-0.002	2609.999997	-0.001

### Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2547.500003	0.001	2652.500003	0.001
3.20	2547.500003	0.001	2652.500003	0.001
4.30	2547.500003	0.001	2652.500003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

### Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2547.500001	0.000	2652.500001	0.000
-20	2547.500004	0.001	2652.500003	0.001
-10	2547.500003	0.001	2652.500003	0.001
0	2547.500001	0.000	2652.500004	0.001
10	2547.500001	0.000	2652.500003	0.001
20	2547.499997	-0.001	2652.499996	-0.001
30	2547.499997	-0.001	2652.499997	-0.001
40	2547.499998	-0.001	2652.499997	-0.001
50	2547.499997	-0.001	2652.499997	-0.001
60	2547.499998	-0.001	2652.499997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2550.000002	0.001	2650.000003	0.001
3.20	2550.000002	0.001	2650.000003	0.001
4.30	2550.000003	0.001	2650.000002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2550.000003	0.001	2650.000003	0.001
-20	2550.000003	0.001	2650.000003	0.001
-10	2550.000003	0.001	2650.000003	0.001
0	2550.000001	0.000	2650.000003	0.001
10	2550.000001	0.000	2650.000003	0.001
20	2549.999997	-0.001	2649.999998	-0.001
30	2549.999997	-0.001	2649.999999	-0.001
40	2549.999999	-0.001	2649.999998	-0.001
50	2549.999996	-0.001	2649.999998	-0.001
60	2549.999997	-0.001	2649.999996	-0.001



Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2552.500004	0.001	2647.500004	0.001
3.20	2552.500004	0.002	2647.500001	0.001
4.30	2552.500002	0.001	2647.500002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2552.500003	0.001	2647.500004	0.001
-20	2552.500002	0.001	2647.500003	0.001
-10	2552.500002	0.001	2647.500002	0.001
0	2552.500003	0.001	2647.500003	0.001
10	2552.500002	0.001	2647.500002	0.001
20	2552.499997	-0.001	2647.499999	0.000
30	2552.499996	-0.001	2647.499998	-0.001
40	2552.499999	-0.001	2647.499998	-0.001
50	2552.499997	-0.001	2647.499997	-0.001
60	2552.499997	-0.001	2647.499996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.75	2555.000003	0.001	2645.000004	0.002
3.20	2555.000004	0.001	2645.000002	0.001
4.30	2555.000003	0.001	2645.000004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2555.000001	0.000	2645.000001	0.000
-20	2555.000003	0.001	2645.000003	0.001
-10	2555.000001	0.000	2645.000002	0.001
0	2555.000002	0.001	2645.000004	0.001
10	2555.000004	0.002	2645.000002	0.001
20	2554.999997	-0.001	2644.999999	-0.001
30	2554.999998	-0.001	2644.999998	-0.001
40	2554.999998	-0.001	2644.999998	-0.001
50	2554.999997	-0.001	2644.999999	0.000
60	2554.999997	-0.001	2644.999998	-0.001

#### 4.4 Emission Bandwidth Measurement

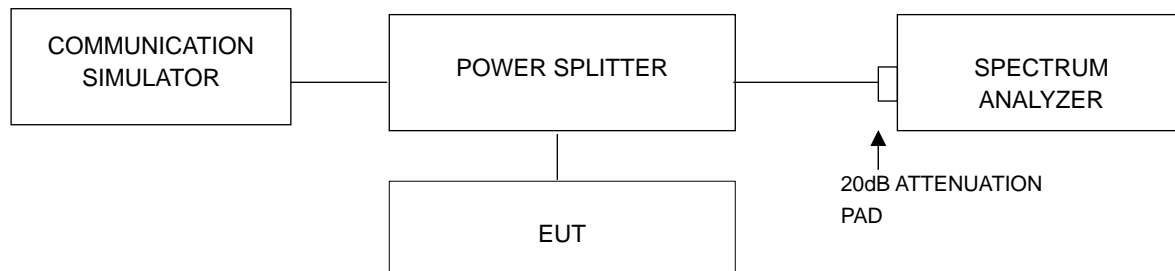
##### 4.4.1 Limits of Emission Bandwidth Measurement

According to FCC 27.53(m)(6) specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

##### 4.4.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 51kHz and VBW = 150kHz for WCDMA; with RBW = 30kHz and VBW = 100kHz (Channel Bandwidth: 1.4MHz), RBW = 62kHz and VBW = 200kHz (Channel Bandwidth: 3MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 5MHz), RBW = 200kHz and VBW = 1MHz (Channel Bandwidth: 10MHz), RBW = 300kHz and VBW = 1MHz (Channel Bandwidth: 15MHz) and RBW = 430kHz and VBW = 1.3MHz (Channel Bandwidth: 20MHz) for LTE Band 4, 7, 12, 13, 38; RBW = 51kHz and VBW = 150kHz (Channel Bandwidth: 5MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 10MHz), RBW = 200kHz and VBW = 620kHz (Channel Bandwidth: 15MHz) and RBW = 430kHz and VBW = 1.2MHz (Channel Bandwidth: 20MHz) for LTE Band 41. The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

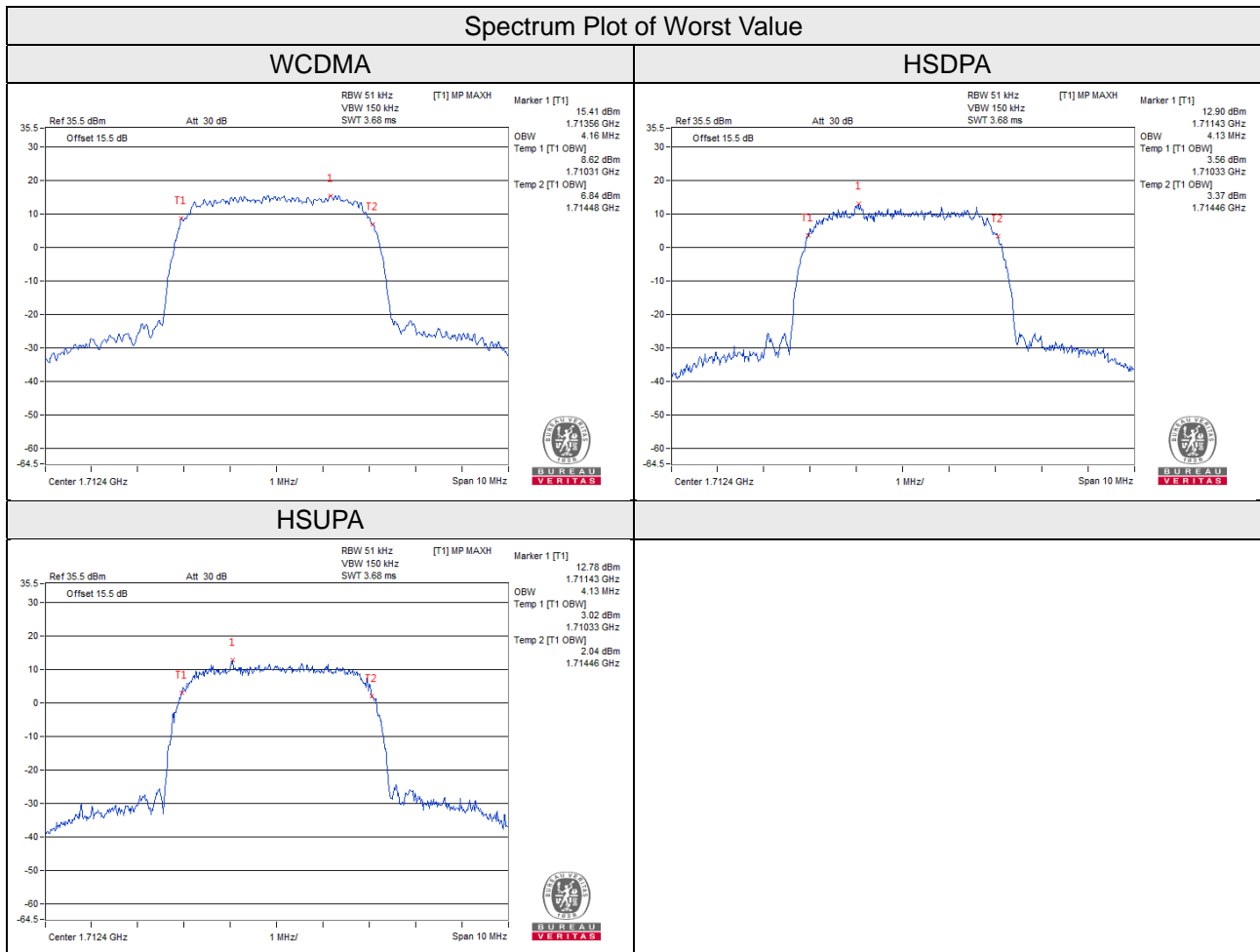
##### 4.4.3 Test Setup



#### 4.4.4 Test Result

##### Occupied Bandwidth WCDMA Band 4

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	4.16	4.13	4.13
1413	1732.6	4.11	4.13	4.13
1513	1752.6	4.15	4.13	4.13



LTE Band 4

LTE Band 4, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
19957	1710.7	1.09	1.09
20175	1732.5	1.09	1.09
20393	1754.3	1.09	1.09
LTE Band 4, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
19965	1711.5	2.70	2.70
20175	1732.5	2.70	2.69
20385	1753.5	2.70	2.69
LTE Band 4, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
19975	1712.5	4.48	4.48
20175	1732.5	4.48	4.48
20375	1752.5	4.48	4.48
LTE Band 4, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20000	1715.0	8.95	8.95
20175	1732.5	8.95	8.95
20350	1750.0	8.96	8.97
LTE Band 4, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20025	1717.5	13.43	13.41
20175	1732.5	13.40	13.39
20325	1747.5	13.44	13.43

LTE Band 4, Channel Bandwidth 20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20050	1720.0	17.90	17.91
20175	1732.5	17.84	17.86
20300	1745.0	17.92	17.93

### Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / QPSK



5MHz / 16QAM



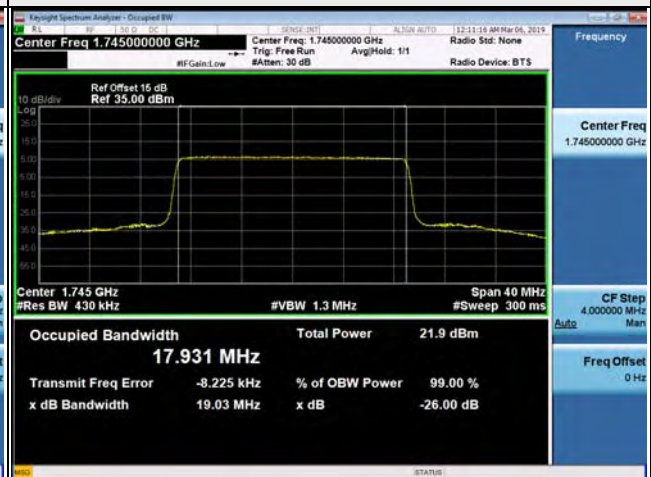
10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM



LTE Band 7

LTE Band 7, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20775	2502.5	4.48	4.48
21100	2535.0	4.48	4.48
21425	2567.5	4.48	4.48
LTE Band 7, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20800	2505.0	8.94	8.95
21100	2535.0	8.95	8.95
21400	2565.0	8.95	8.95
LTE Band 7, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20825	2507.5	13.41	13.40
21100	2535.0	13.43	13.42
21375	2562.5	13.43	13.42
LTE Band 7, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
20850	2510.0	17.88	17.89
21100	2535.0	17.89	17.91
21350	2560.0	17.90	17.92



### Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM



LTE Band 12

LTE Band 12, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23017	699.7	1.09	1.09
23095	707.5	1.09	1.09
23173	715.3	1.09	1.09
LTE Band 12, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23025	700.5	2.70	2.69
23095	707.5	2.70	2.70
23165	714.5	2.70	2.69
LTE Band 12, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23035	701.5	4.48	4.48
23095	707.5	4.48	4.49
23155	713.5	4.48	4.48
LTE Band 12, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23060	704.0	8.93	8.93
23095	707.5	8.97	8.97
23130	711.0	8.95	8.96

### Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / QPSK



5MHz / 16QAM



10MHz / 16QAM



LTE Band 13

LTE Band 13, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23205	779.5	4.48	4.48
23230	782.0	4.48	4.48
23255	784.5	4.48	4.49
LTE Band 13, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23230	782.0	8.96	8.96

### Spectrum Plot of Worst Value

5MHz / 16QAM

10MHz / 16QAM



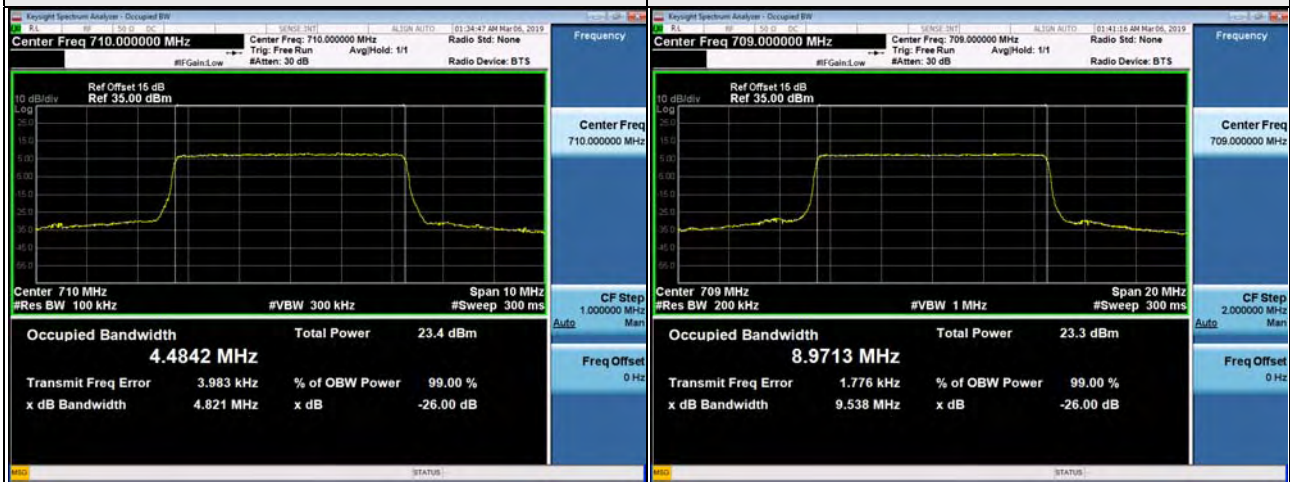
LTE Band 17

LTE Band 17, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23755	706.5	4.48	4.48
23790	710.0	4.48	4.48
23825	713.5	4.48	4.48
LTE Band 17, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
23780	709.0	8.97	8.97
23790	710.0	8.96	8.97
23800	711.0	8.95	8.96

### Spectrum Plot of Worst Value

5MHz / 16QAM

10MHz / 16QAM



LTE Band 38

LTE Band 38, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
37775	2572.5	4.48	4.48
38000	2595.0	4.48	4.48
38225	2617.5	4.49	4.48
LTE Band 38, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
37800	2575.0	8.94	8.95
38000	2595.0	8.94	8.95
38200	2615.0	8.93	8.96
LTE Band 38, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
37825	2577.5	13.43	13.42
38000	2595.0	13.44	13.42
38175	2612.5	13.43	13.42
LTE Band 38, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
37850	2580.0	17.89	17.88
38000	2595.0	17.90	17.91
38150	2610.0	17.89	17.89



### Spectrum Plot of Worst Value

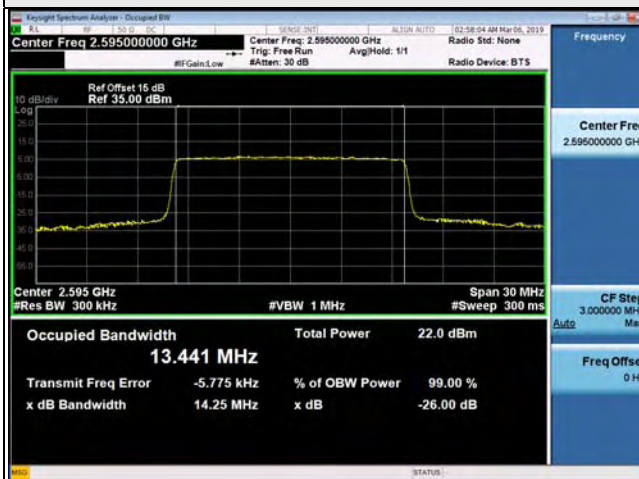
5MHz / QPSK



10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM

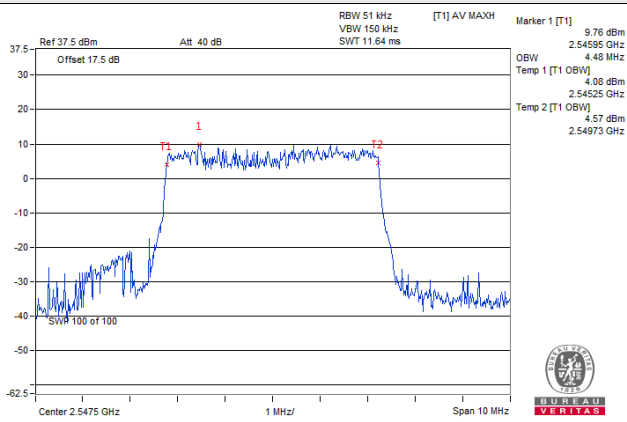


LTE Band 41

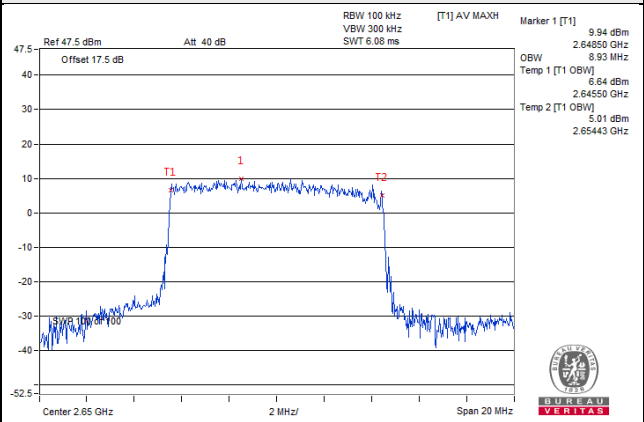
LTE Band 41, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
40165	2547.5	4.48	4.48
40545	2582.5	4.48	4.48
40865	2617.5	4.46	4.48
41215	2652.5	4.48	4.48
LTE Band 41, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
40190	2550.0	8.90	8.90
40520	2583.0	8.90	8.90
40850	2616.0	8.93	8.90
41190	2650.0	8.93	8.86
LTE Band 41, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
40215	2552.5	13.43	13.33
40530	2584.0	13.43	13.36
40845	2615.5	13.30	13.33
41165	2647.5	13.33	13.36
LTE Band 41, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM
40240	2555.0	17.80	17.93
40540	2585.0	17.86	17.93
40840	2615.0	17.86	17.86
41140	2645.0	17.93	17.93

### Spectrum Plot of Worst Value

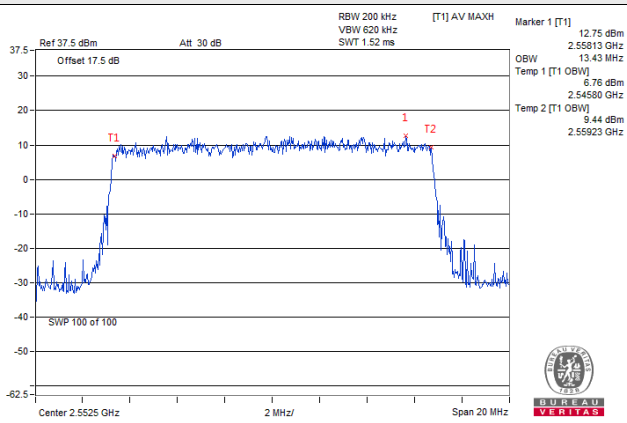
#### 5MHz / QPSK



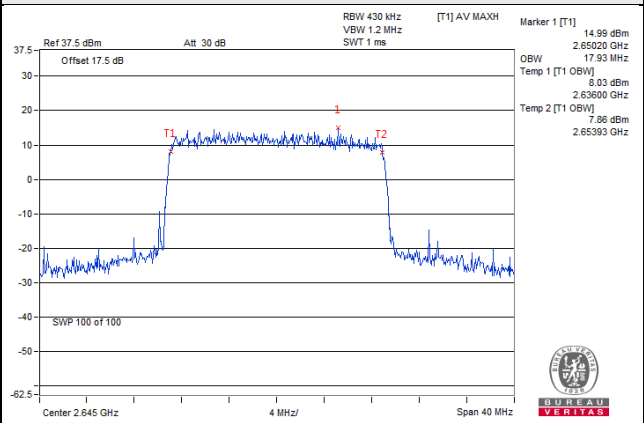
#### 10MHz / QPSK



#### 15MHz / QPSK



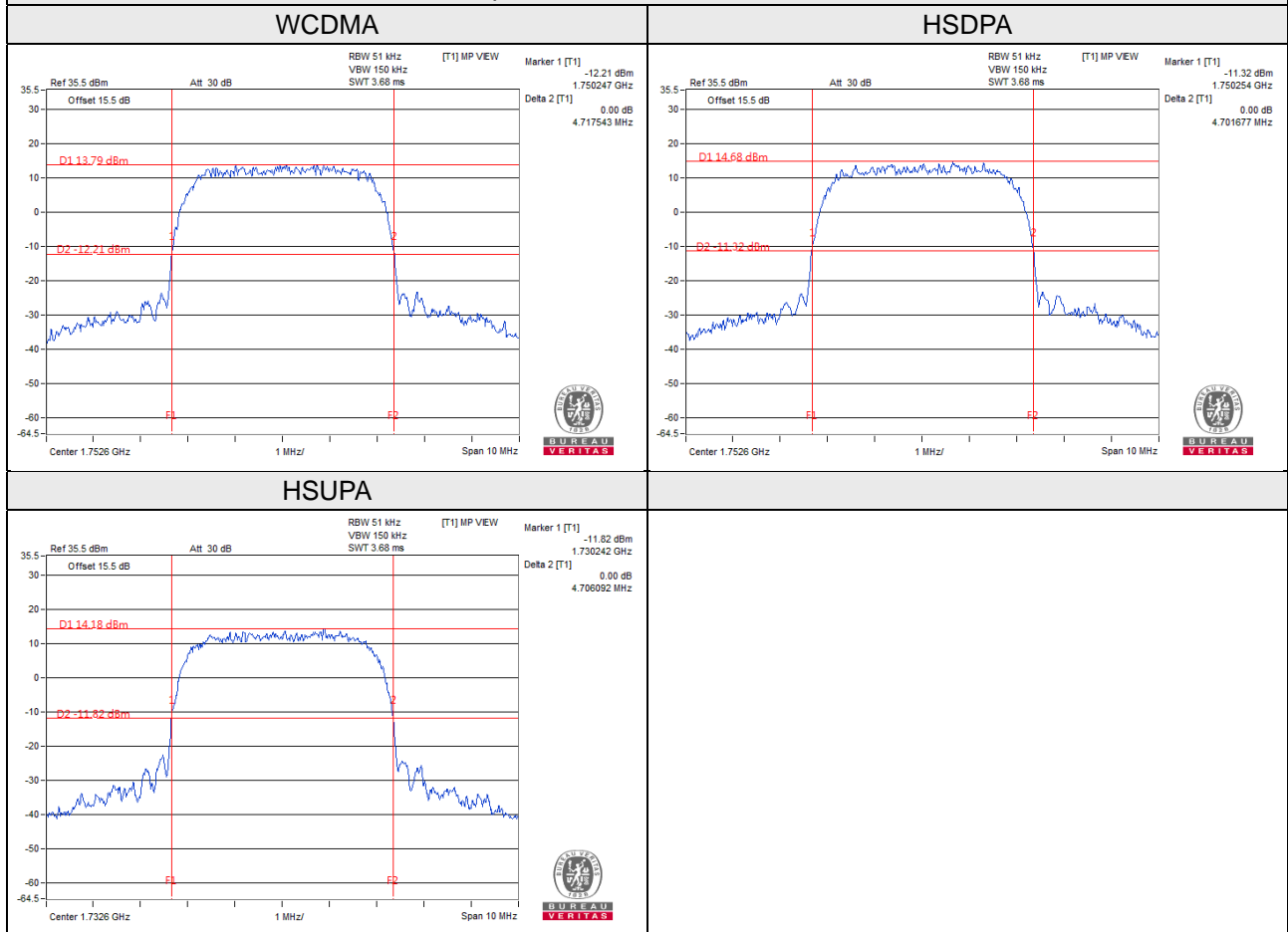
#### 20MHz / QPSK



26dB Bandwidth  
WCDMA Band 4

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	4.70	4.67	4.67
1413	1732.6	4.69	4.68	4.71
1513	1752.6	4.72	4.70	4.71

Spectrum Plot of Worst Value



LTE Band 4

LTE Band 4, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
19957	1710.7	1.28	1.26
20175	1732.5	1.26	1.26
20393	1754.3	1.26	1.27
LTE Band 4, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
19965	1711.5	2.93	2.93
20175	1732.5	2.92	2.93
20385	1753.5	2.93	2.92
LTE Band 4, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
19975	1712.5	4.82	4.80
20175	1732.5	4.80	4.82
20375	1752.5	4.82	4.81
LTE Band 4, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20000	1715.0	9.53	9.52
20175	1732.5	9.52	9.51
20350	1750.0	9.54	9.52
LTE Band 4, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20025	1717.5	14.23	14.23
20175	1732.5	14.23	14.22
20325	1747.5	14.25	14.24

LTE Band 4, Channel Bandwidth 20MHz

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20050	1720.0	19.02	19.02
20175	1732.5	18.98	19.00
20300	1745.0	19.04	19.03

### Spectrum Plot of Worst Value

#### 1.4MHz / QPSK



#### 3MHz / QPSK



#### 5MHz / 16QAM



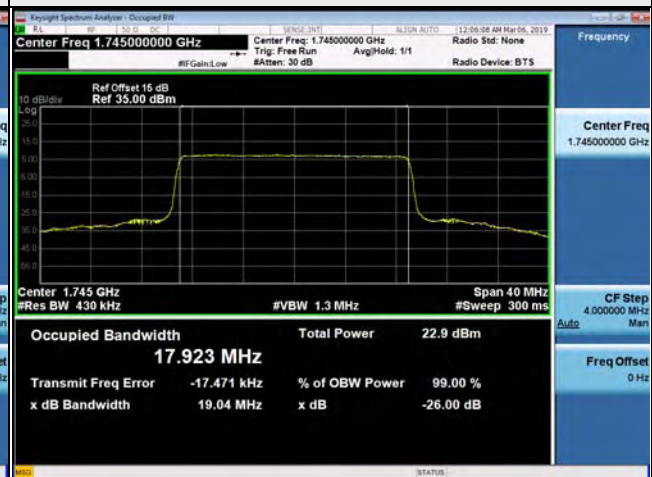
#### 10MHz / QPSK



#### 15MHz / QPSK



#### 20MHz / QPSK



LTE Band 7

LTE Band 7, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20775	2502.5	4.83	4.80
21100	2535.0	4.80	4.81
21425	2567.5	4.81	4.83
LTE Band 7, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20800	2505.0	9.51	9.50
21100	2535.0	9.51	9.52
21400	2565.0	9.53	9.53
LTE Band 7, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20825	2507.5	14.23	14.21
21100	2535.0	14.23	14.23
21375	2562.5	14.24	14.24
LTE Band 7, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
20850	2510.0	18.99	19.01
21100	2535.0	19.01	19.01
21350	2560.0	19.01	19.01



### Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK



LTE Band 12

LTE Band 12, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23017	699.7	1.25	1.26
23095	707.5	1.26	1.25
23173	715.3	1.26	1.26
LTE Band 12, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23025	700.5	2.92	2.91
23095	707.5	2.92	2.92
23165	714.5	2.91	2.92
LTE Band 12, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23035	701.5	4.80	4.79
23095	707.5	4.81	4.81
23155	713.5	4.78	4.79
LTE Band 12, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23060	704.0	9.48	9.49
23095	707.5	9.53	9.53
23130	711.0	9.51	9.51

### Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / QPSK



5MHz / QPSK



10MHz / 16QAM



LTE Band 13

LTE Band 13, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23205	779.5	4.79	4.80
23230	782.0	4.81	4.81
23255	784.5	4.81	4.81
LTE Band 13, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23230	782.0	9.52	9.51

### Spectrum Plot of Worst Value

5MHz / 16QAM

10MHz / QPSK



LTE Band 17

LTE Band 17, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23755	706.5	4.80	4.80
23790	710.0	4.80	4.82
23825	713.5	4.79	4.79
LTE Band 17, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
23780	709.0	9.52	9.54
23790	710.0	9.51	9.54
23800	711.0	9.53	9.51

### Spectrum Plot of Worst Value

5MHz / 16QAM

10MHz / 16QAM



LTE Band 38

LTE Band 38, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
37775	2572.5	4.80	4.83
38000	2595.0	4.82	4.83
38225	2617.5	4.84	4.84
LTE Band 38, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
37800	2575.0	9.48	9.50
38000	2595.0	9.48	9.51
38200	2615.0	9.50	9.50
LTE Band 38, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
37825	2577.5	14.23	14.22
38000	2595.0	14.25	14.22
38175	2612.5	14.25	14.24
LTE Band 38, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
37850	2580.0	19.01	18.99
38000	2595.0	19.02	19.02
38150	2610.0	19.01	19.00



### Spectrum Plot of Worst Value

5MHz / 16QAM



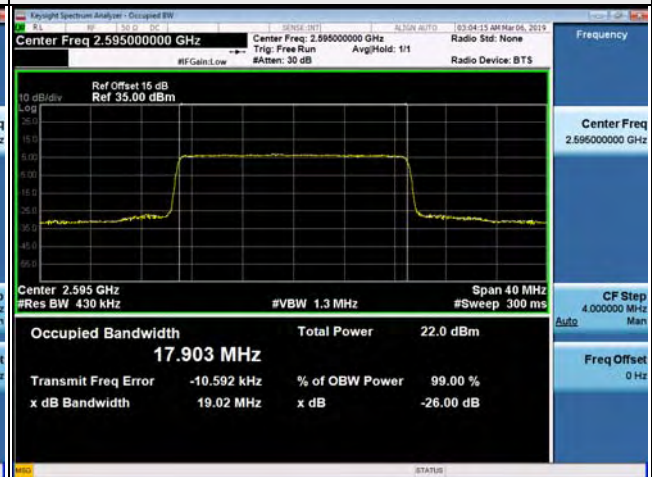
10MHz / 16QAM



15MHz / QPSK



20MHz / 64QAM

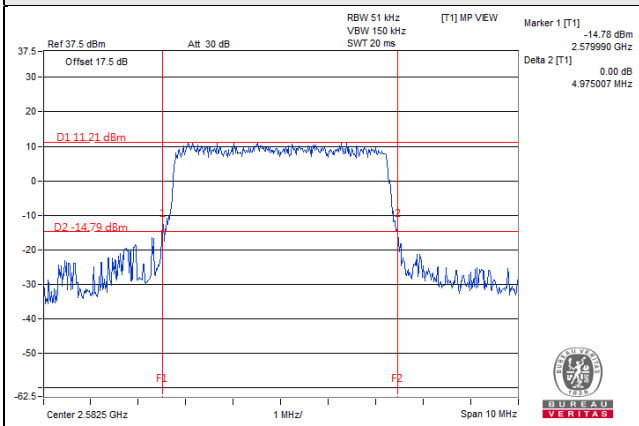


LTE Band 41

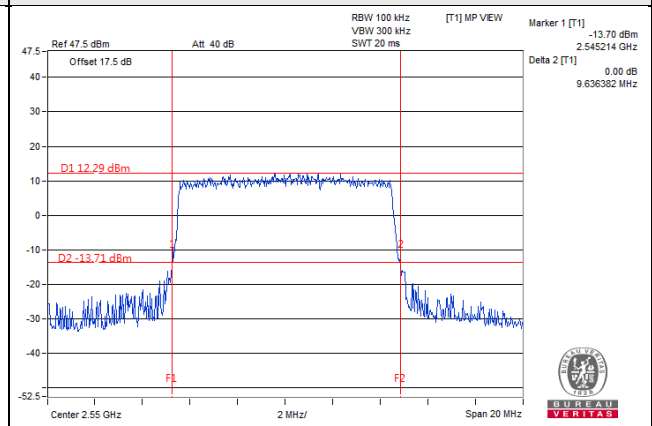
LTE Band 41, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
40165	2547.5	4.85	4.87
40545	2582.5	4.96	4.97
40865	2617.5	4.93	4.90
41215	2652.5	4.95	4.93
LTE Band 41, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
40190	2550.0	9.63	9.56
40520	2583.0	9.61	9.60
40850	2616.0	9.58	9.59
41190	2650.0	9.54	9.61
LTE Band 41, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
40215	2552.5	14.48	14.45
40530	2584.0	14.41	14.53
40845	2615.5	14.39	14.39
41165	2647.5	14.47	14.45
LTE Band 41, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		QPSK	16QAM
40240	2555.0	19.67	19.41
40540	2585.0	20.23	20.19
40840	2615.0	19.34	19.44
41140	2645.0	19.93	19.35

### Spectrum Plot of Worst Value

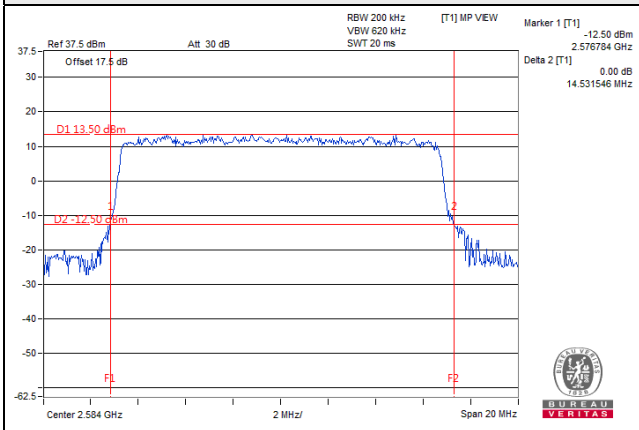
#### 5MHz / 16QAM



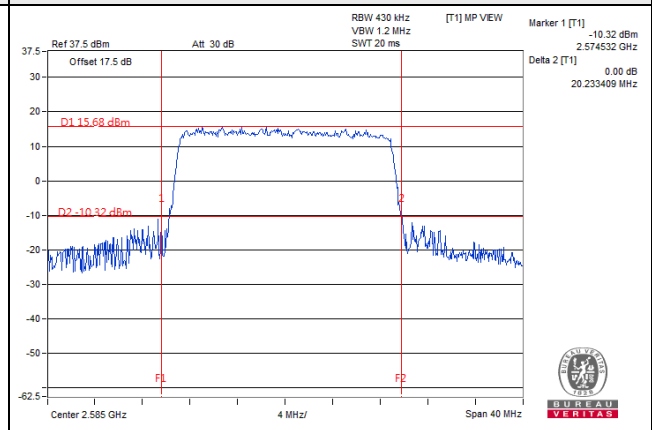
#### 10MHz / QPSK



#### 15MHz / 16QAM



#### 20MHz / QPSK



## 4.5 Channel Edge Measurement

### 4.5.1 Limits of Band Edge Measurement

For WCDMA Band 4, LTE Band 4

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38, 41

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a 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. 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 12

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 13

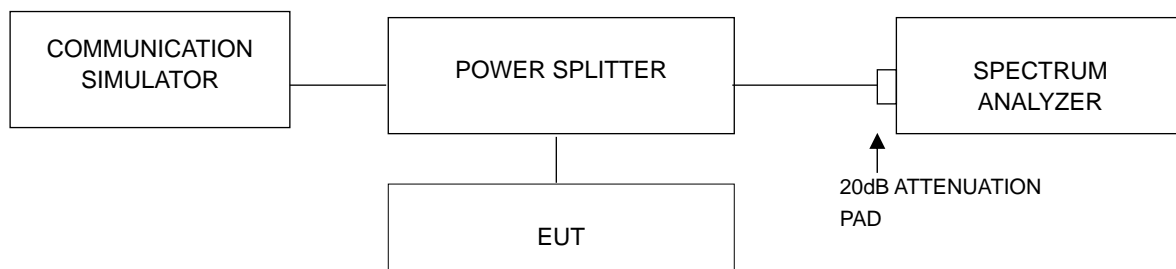
According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations

For LTE Band 17

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

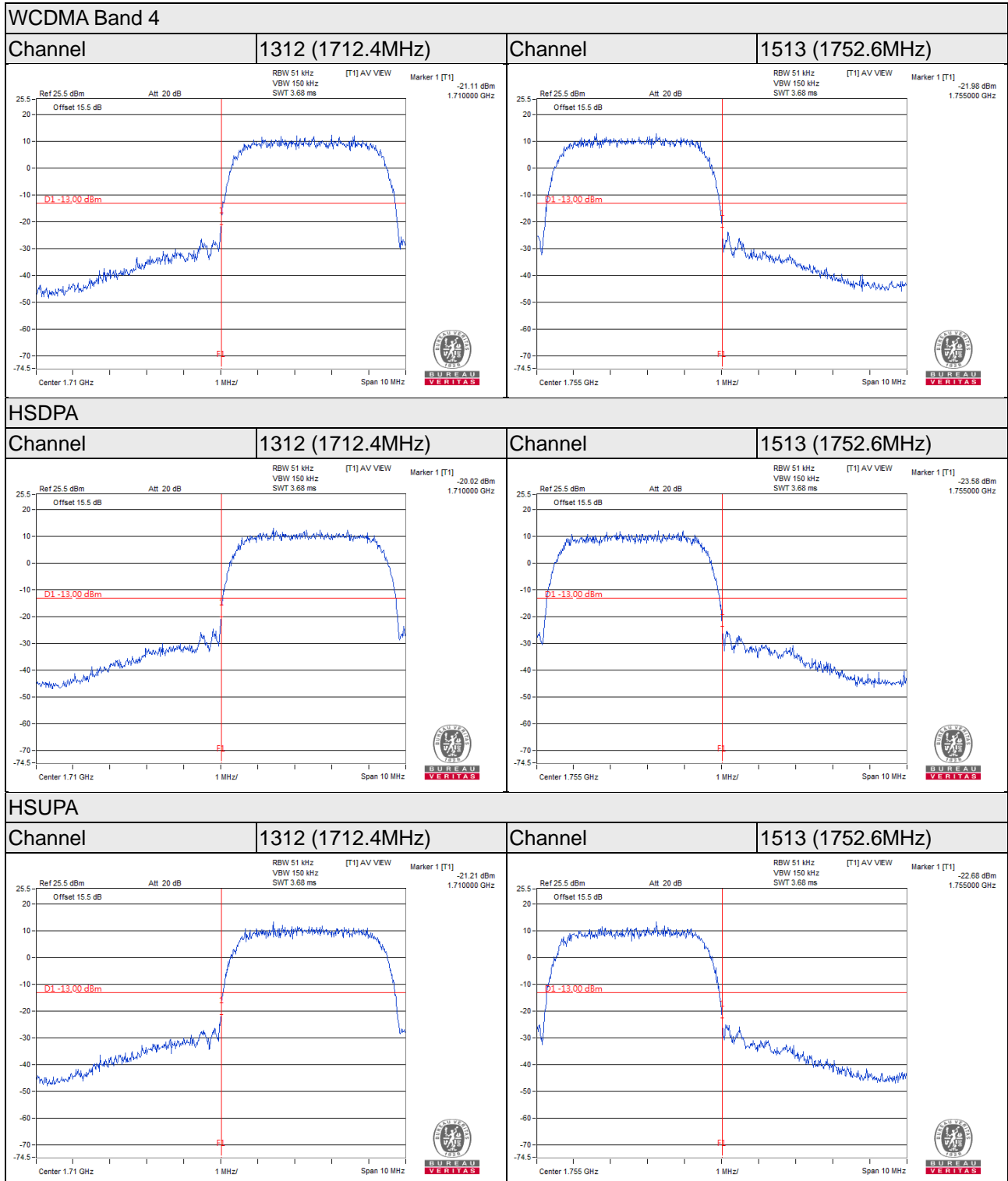
### 4.5.2 Test Setup



#### 4.5.3 Test Procedures

- a. The EUT was set up for the rated peak power. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 10MHz. RB of the spectrum is 51kHz and VB of the spectrum is 150kHz (WCDMA / HSDPA / HSUPA).
- c. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 15kHz and VB of the spectrum is 51kHz (LTE Channel Bandwidth 1.4MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 62kHz and VB of the spectrum is 200kHz (LTE Channel Bandwidth 5MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 10MHz).
- g. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Channel Bandwidth 15MHz).
- h. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (LTE Channel Bandwidth 20MHz).
- i. Except WCDMA Band 4 and LTE Band 4, other LTE Band measurement procedure refer 27.53(m)(6).
- j. Record the max trace plot into the test report.

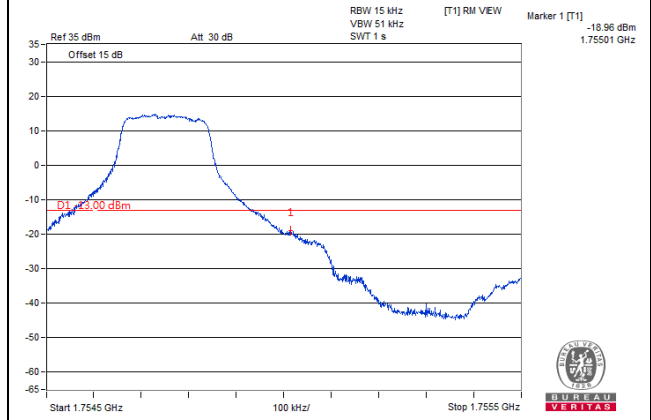
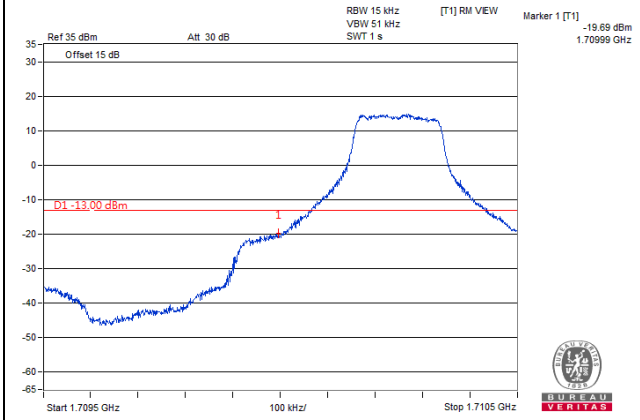
### 4.5.4 Test Results



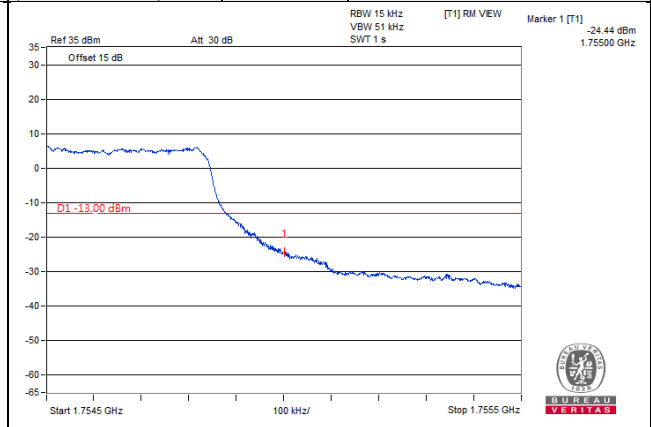
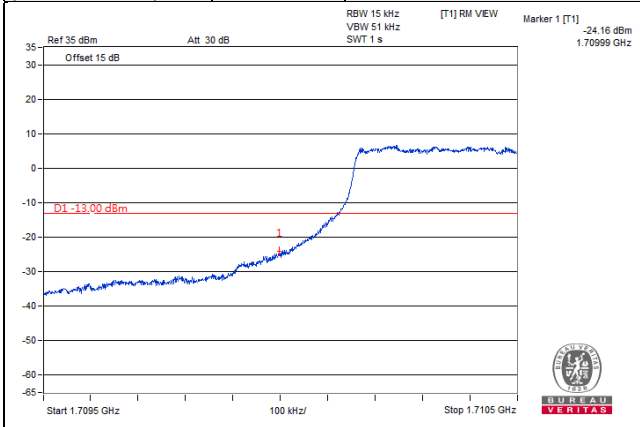
LTE Band 4

Channel Bandwidth: 1.4MHz

Channel 19957 (1710.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 20393 (1754.3MHz)	QPSK	1 RB / 5 RB Offset
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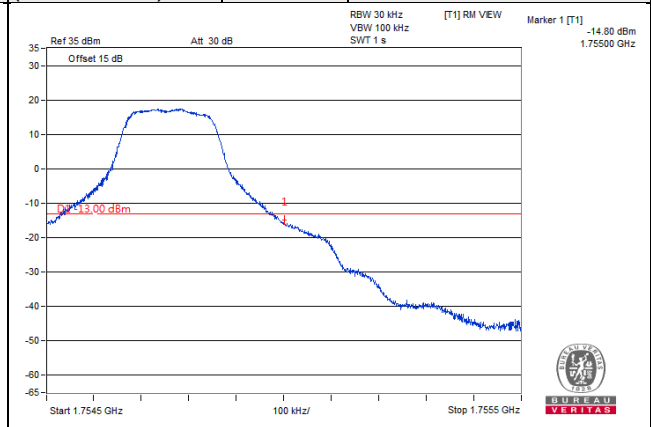
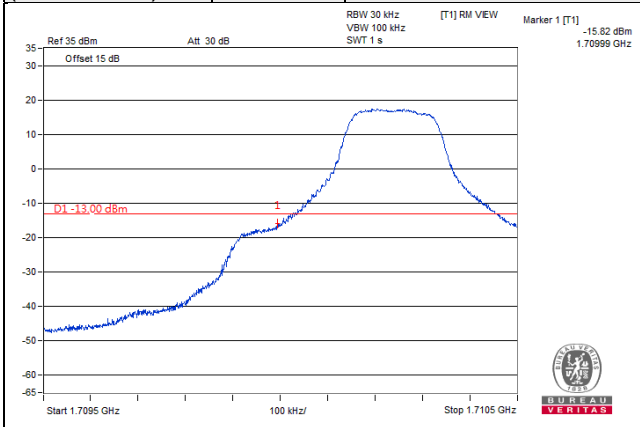


Channel 19957 (1710.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 20393 (1754.3MHz)	QPSK	6 RB / 0 RB Offset
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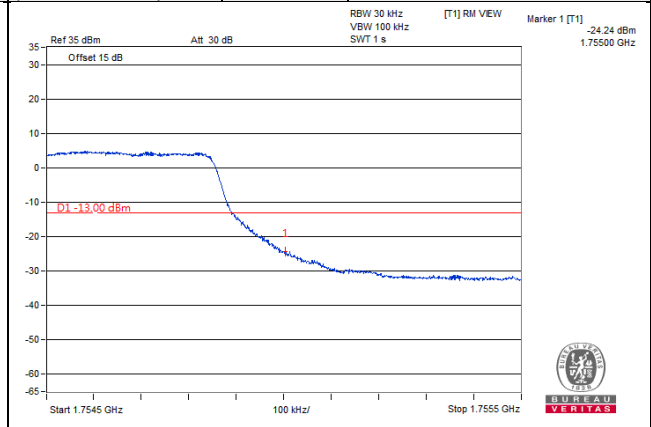
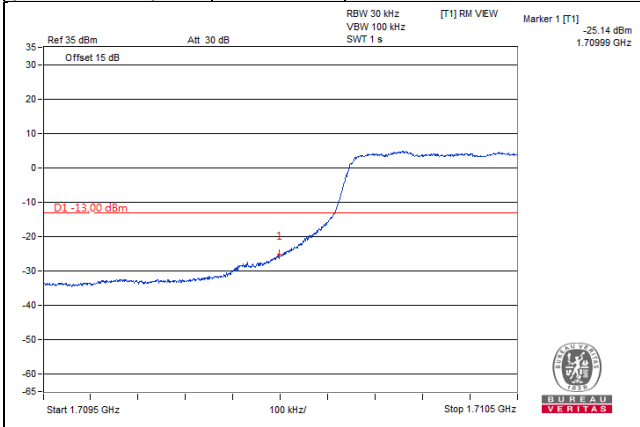


**Channel Bandwidth: 3MHz**

<b>Channel 19965 (1711.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20385 (1753.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 14 RB Offset</b>
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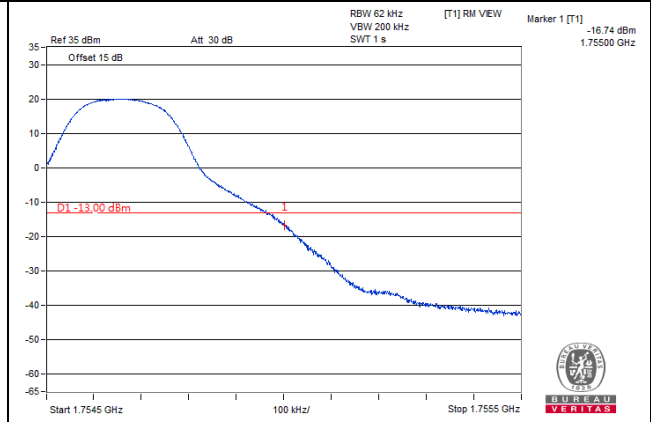
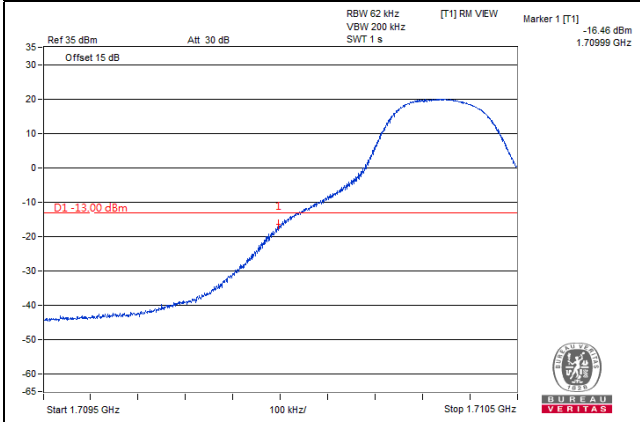
<b>Channel 19965 (1711.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>	<b>Channel 20385 (1753.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>
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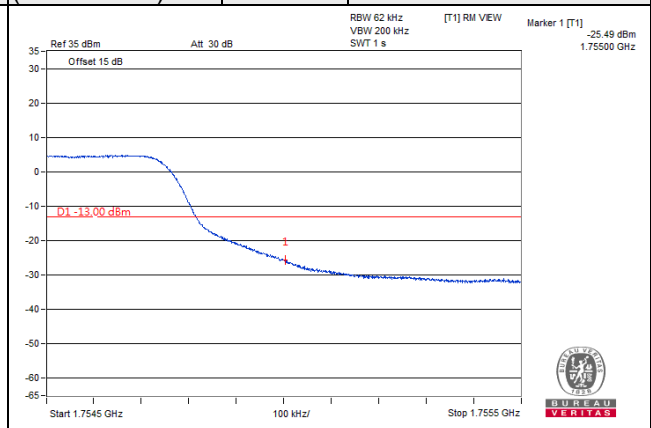
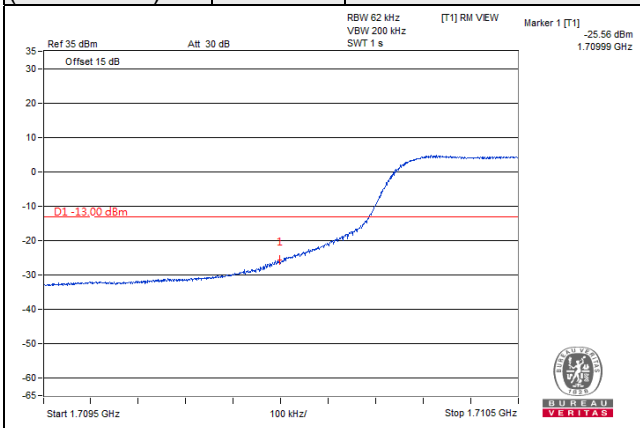


**Channel Bandwidth: 5MHz**

<b>Channel 19975 (1712.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20375 (1752.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 24 RB Offset</b>
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<b>Channel 19975 (1712.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>	<b>Channel 20375 (1752.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>
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Channel Bandwidth: 10MHz

Channel 20000  
(1715.0MHz)

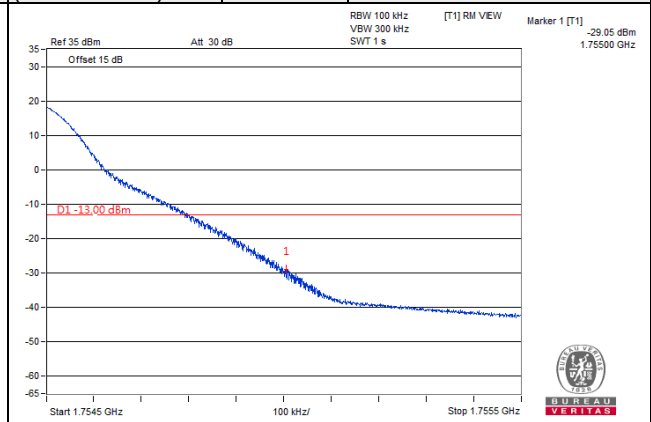
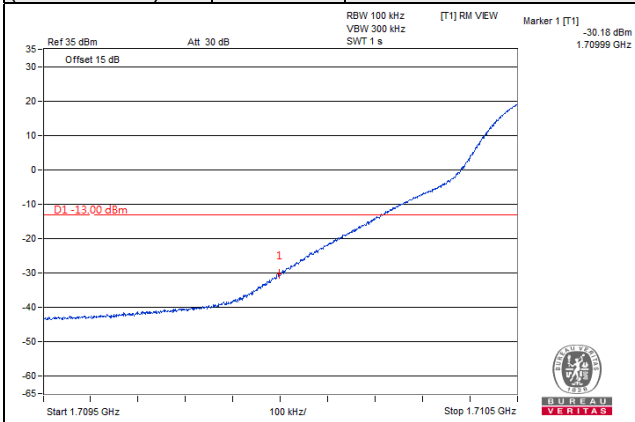
QPSK

1 RB / 0 RB Offset

Channel 20350  
(1750.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 20000  
(1715.0MHz)

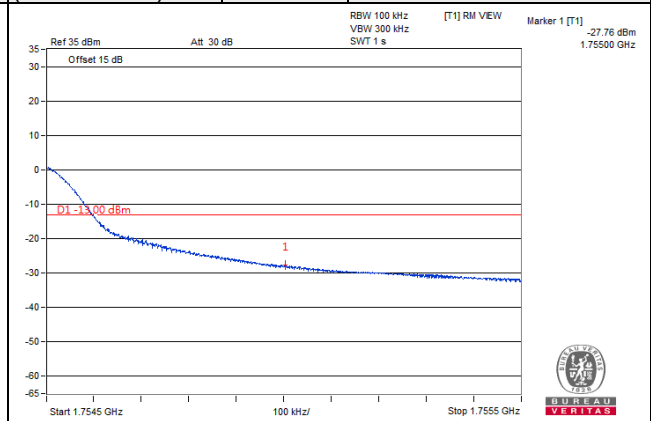
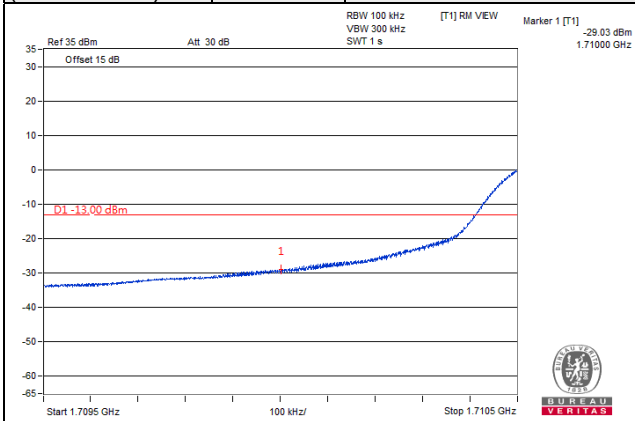
QPSK

50 RB / 0 RB Offset

Channel 20350  
(1750.0MHz)

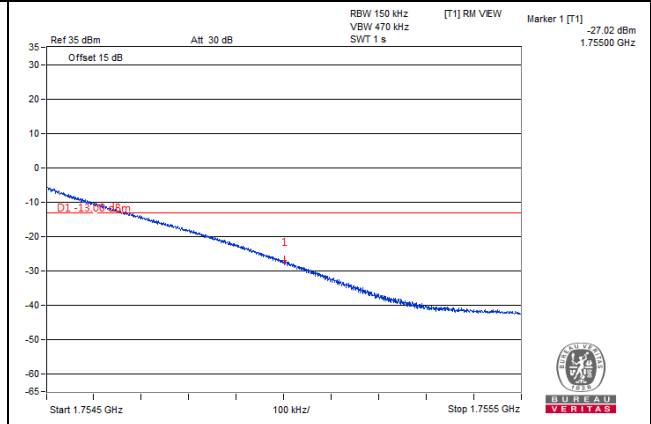
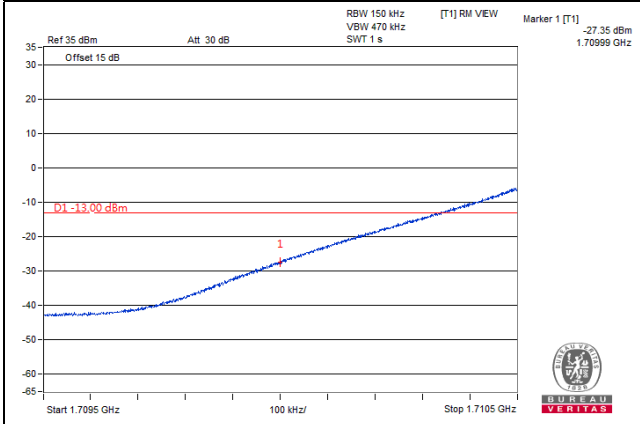
QPSK

50 RB / 0 RB Offset

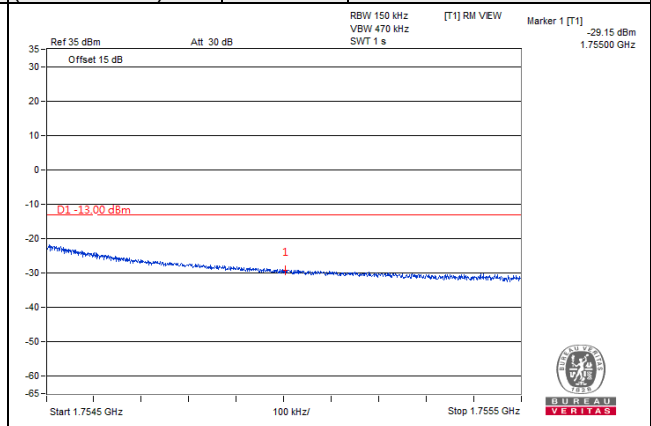
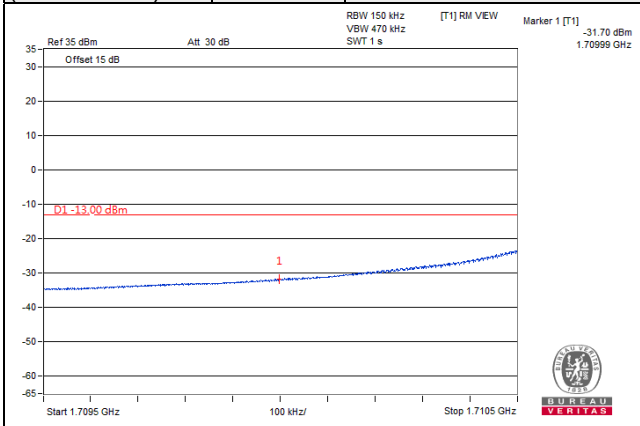


**Channel Bandwidth: 15MHz**

<b>Channel 20025 (1717.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20325 (1747.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 74 RB Offset</b>
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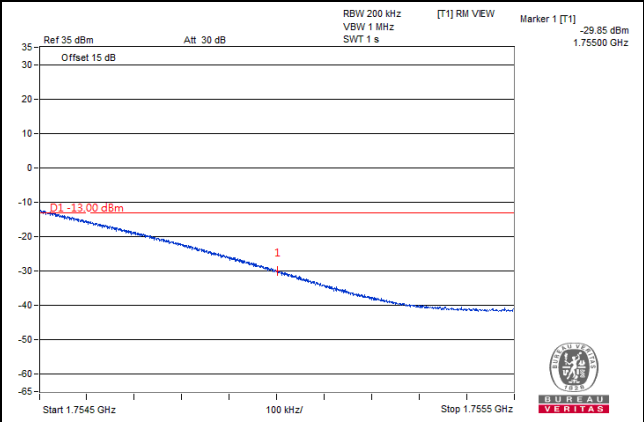
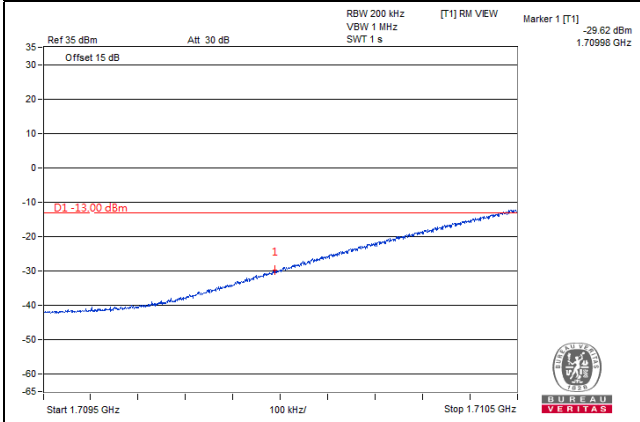


<b>Channel 20025 (1717.5MHz)</b>	<b>QPSK</b>	<b>75 RB / 0 RB Offset</b>	<b>Channel 20325 (1747.5MHz)</b>	<b>QPSK</b>	<b>75 RB / 0 RB Offset</b>
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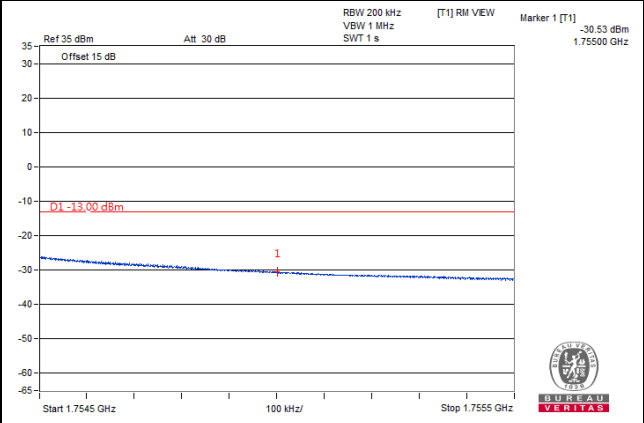
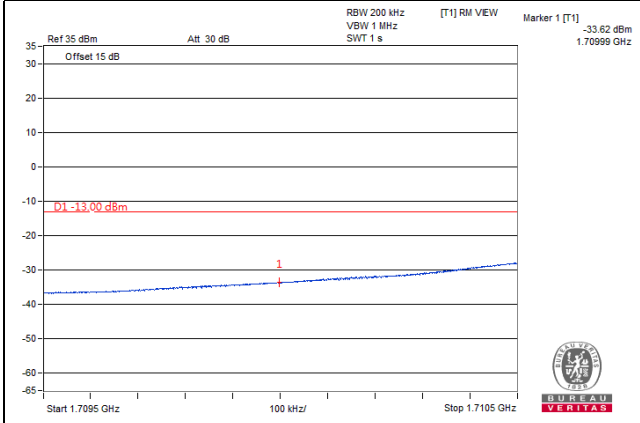


**Channel Bandwidth: 20MHz**

<b>Channel 20050 (1720.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20300 (1745.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 99 RB Offset</b>
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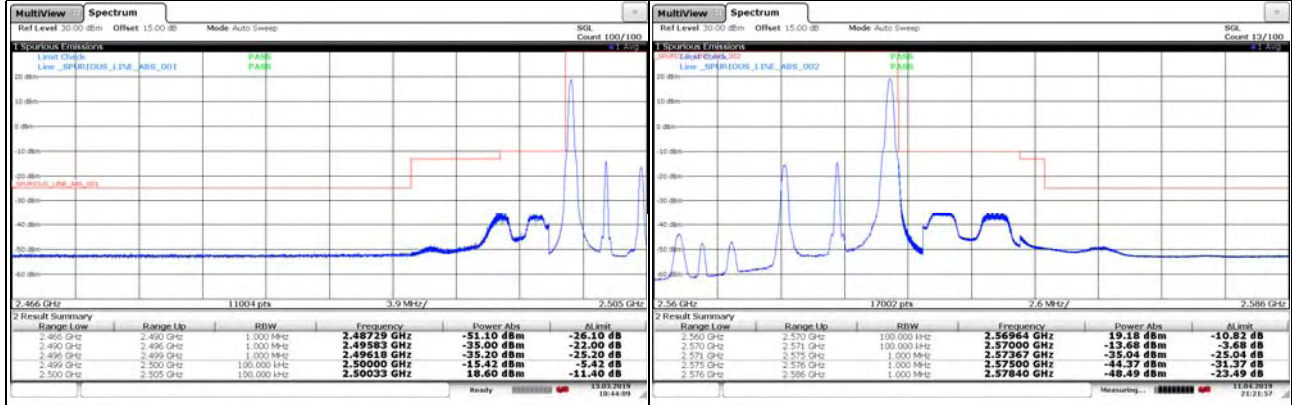
<b>Channel 20050 (1720.0MHz)</b>	<b>QPSK</b>	<b>100 RB / 0 RB Offset</b>	<b>Channel 20300 (1745.0MHz)</b>	<b>QPSK</b>	<b>100 RB / 0 RB Offset</b>
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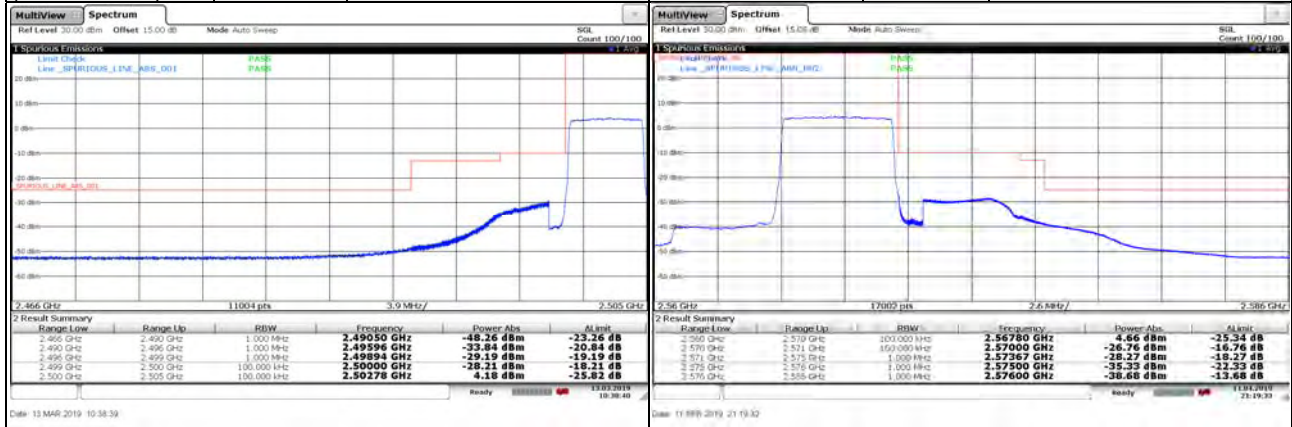
LTE Band 7

Channel Bandwidth: 5MHz

Channel 20775 (2502.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 21425 (2567.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 20775 (2502.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 21425 (2567.5MHz)	QPSK	25 RB / 0 RB Offset
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Channel Bandwidth: 10MHz

Channel 20800  
(2505MHz)

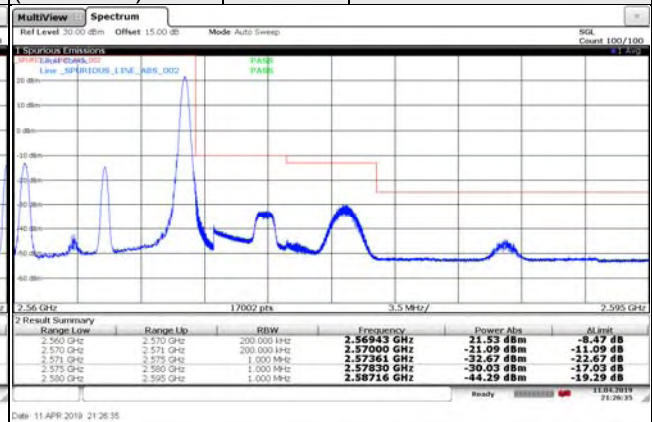
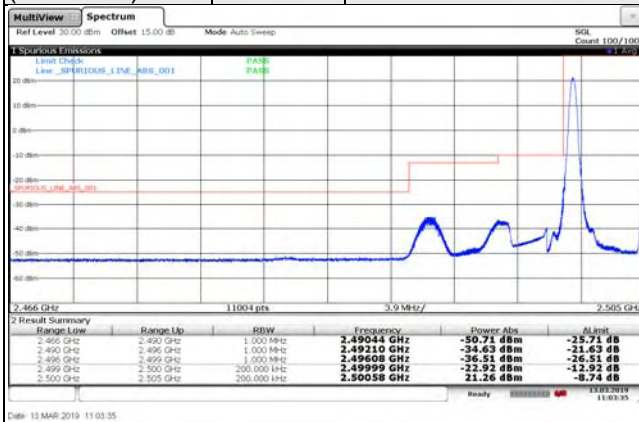
QPSK

1 RB / 0 RB Offset

Channel 21400  
(2565MHz)

QPSK

1 RB / 49RB Offset



Channel 20800  
(2505MHz)

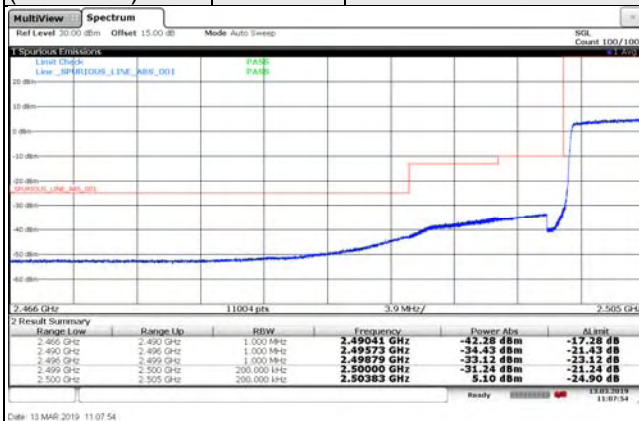
QPSK

50 RB / 0 RB Offset

Channel 21400  
(2565MHz)

QPSK

50 RB / 0 RB Offset



Channel Bandwidth: 15MHz

Channel 20825  
(2507.5MHz)

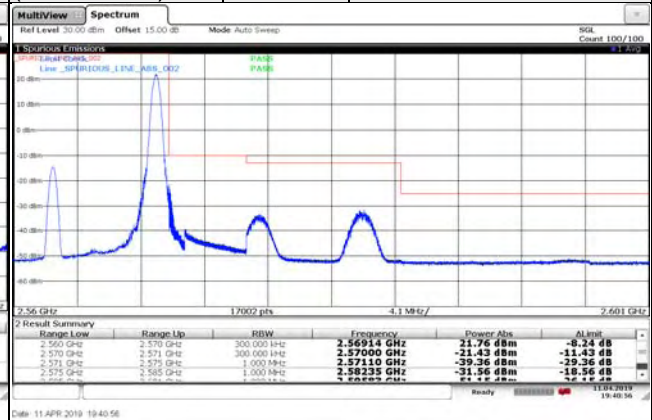
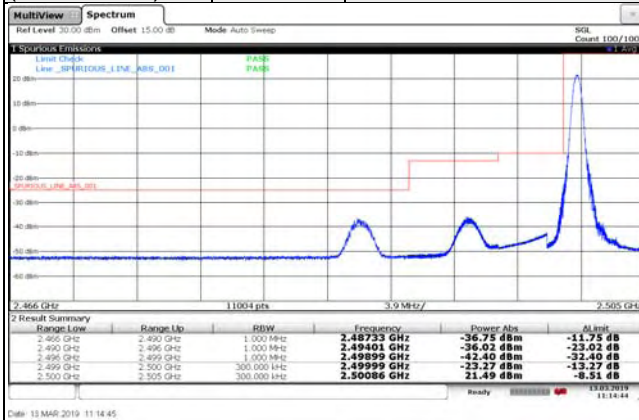
QPSK

1 RB / 0 RB Offset

Channel 21375  
(2562.5MHz)

QPSK

1 RB / 74RB Offset



Channel 20825  
(2507.5MHz)

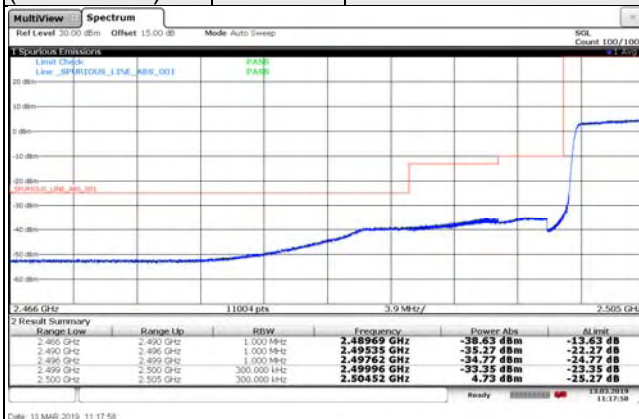
QPSK

75 RB / 0 RB Offset

Channel 21375  
(2562.5MHz)

QPSK

75 RB / 0 RB Offset



Channel Bandwidth: 20MHz

Channel 20850  
(2510MHz)

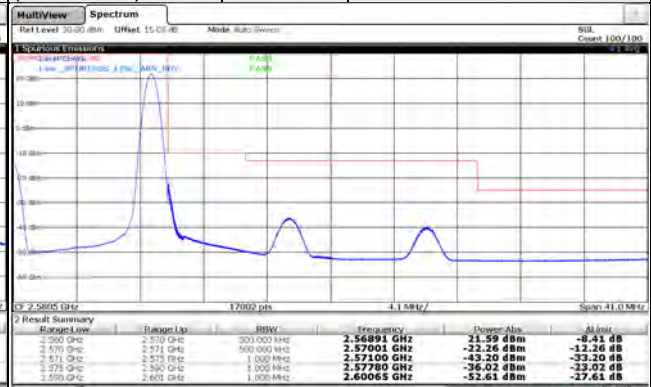
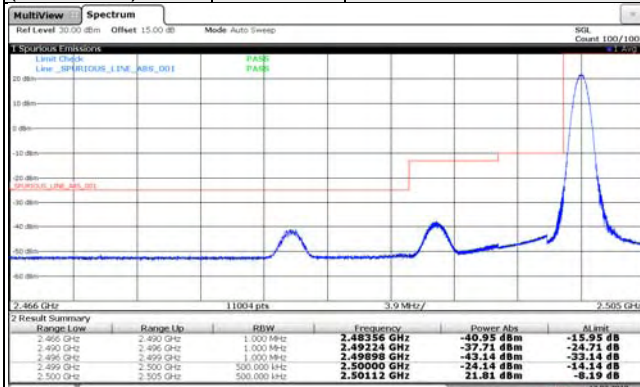
QPSK

1 RB / 0 RB Offset

Channel 21350  
(2560MHz)

QPSK

1 RB / 99RB Offset



Channel 20850  
(2510MHz)

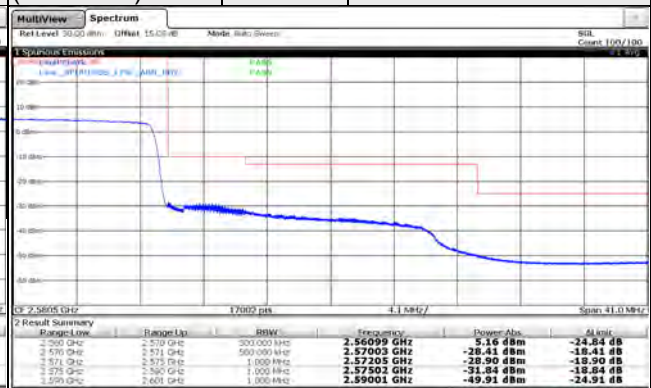
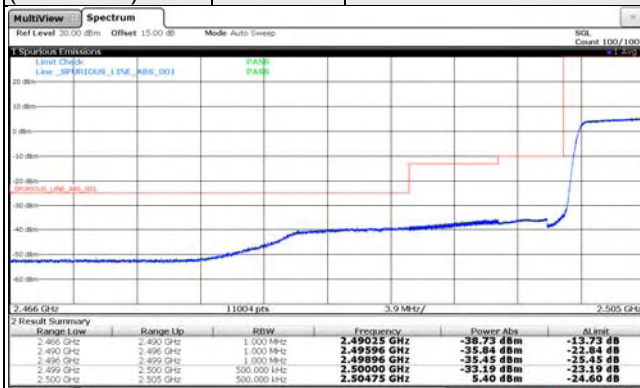
QPSK

100 RB / 0 RB Offset

Channel 21350  
(2560MHz)

QPSK

100 RB / 0 RB Offset

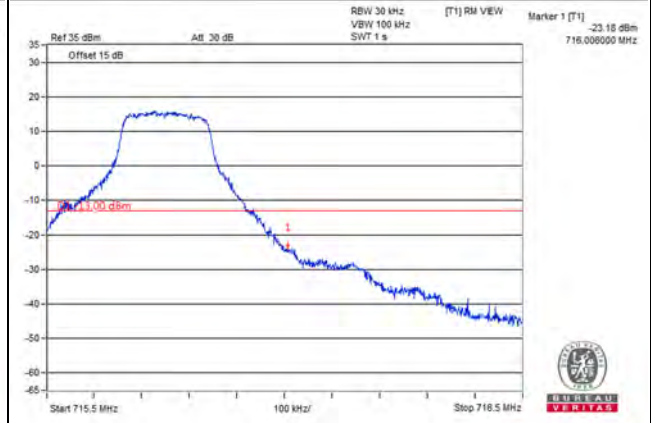
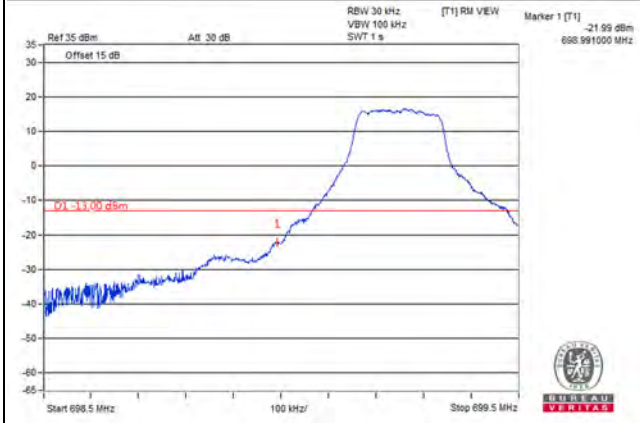




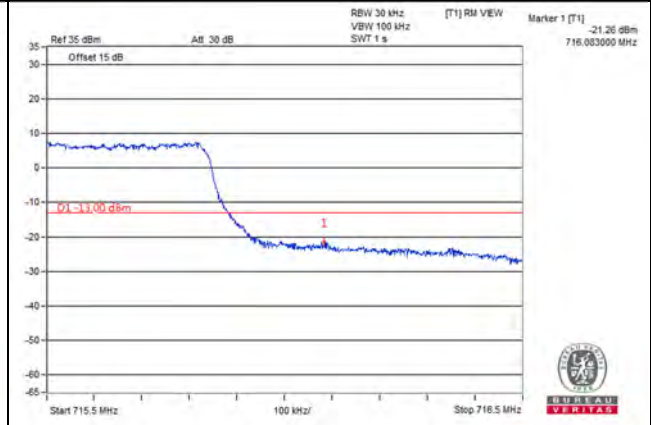
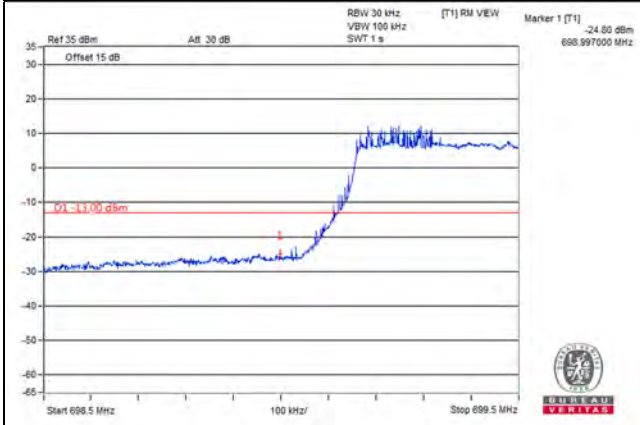
LTE Band 12

Channel Bandwidth: 1.4MHz

Channel 23017 (699.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 23173 (715.3MHz)	QPSK	1 RB / 5 RB Offset
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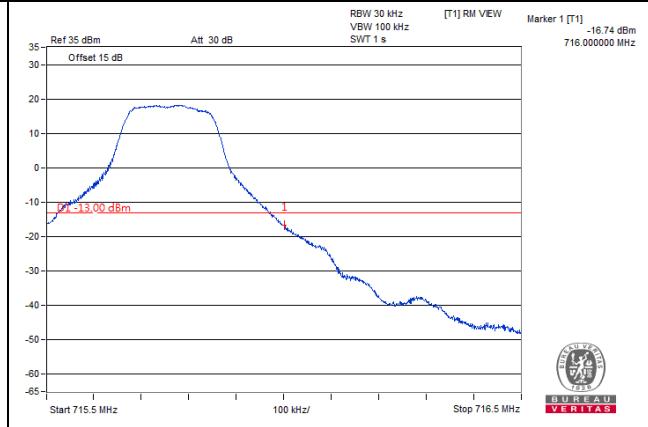
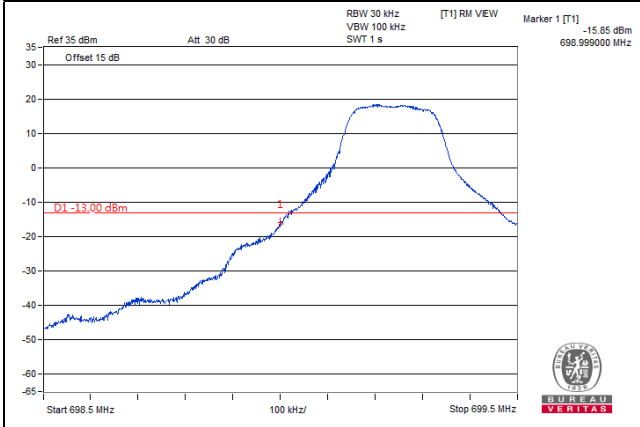


Channel 23017 (699.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 23173 (715.3MHz)	QPSK	6 RB / 0 RB Offset
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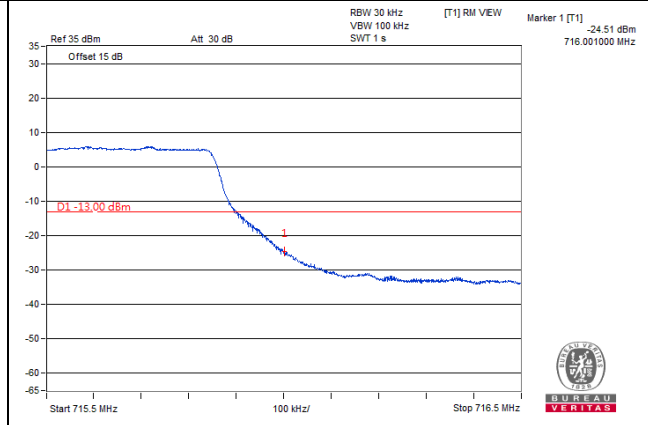
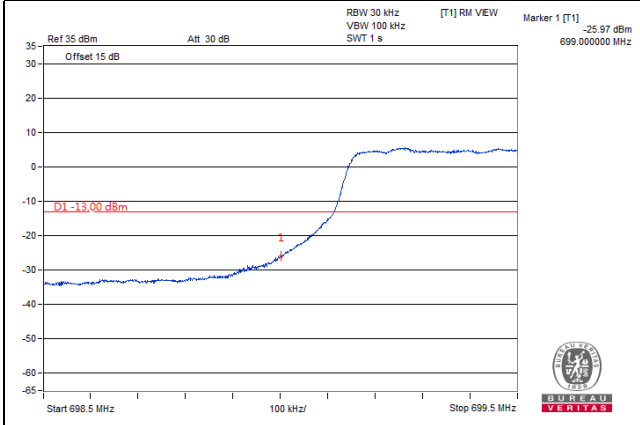


**Channel Bandwidth: 3MHz**

<b>Channel 23025 (700.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 23165 (714.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 14RB Offset</b>
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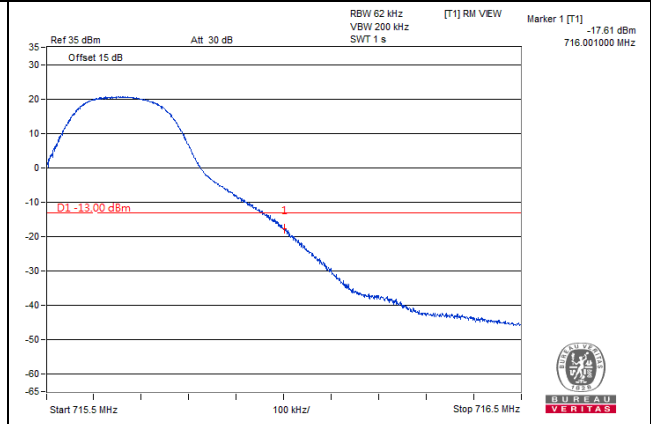
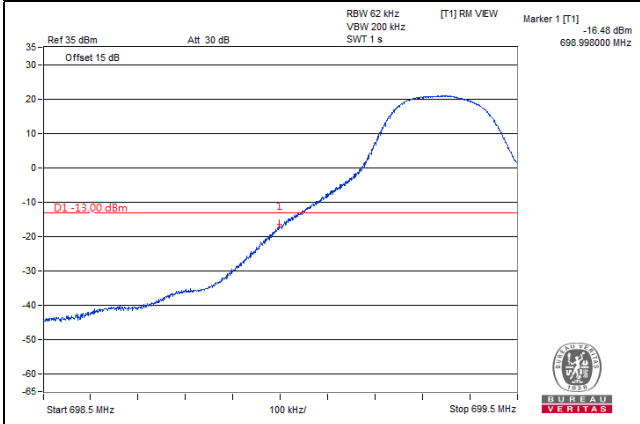


<b>Channel 23025 (700.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>	<b>Channel 23165 (714.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>
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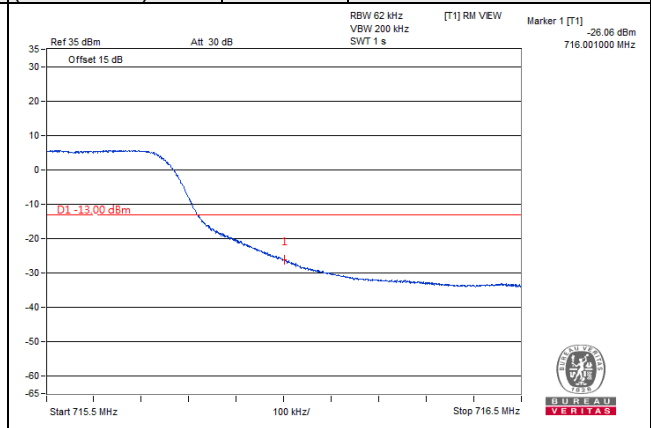
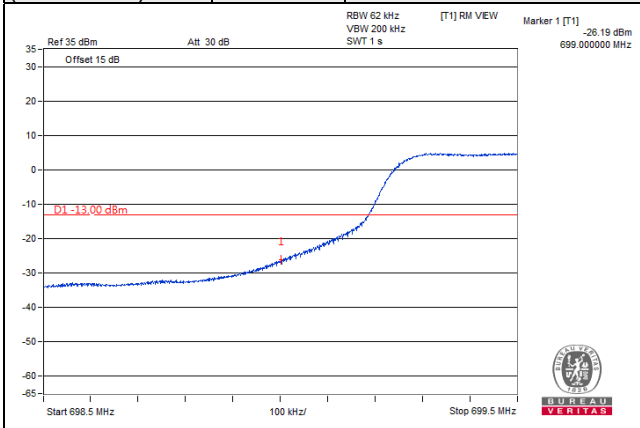


**Channel Bandwidth: 5MHz**

<b>Channel 23035 (701.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 23155 (713.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 24RB Offset</b>
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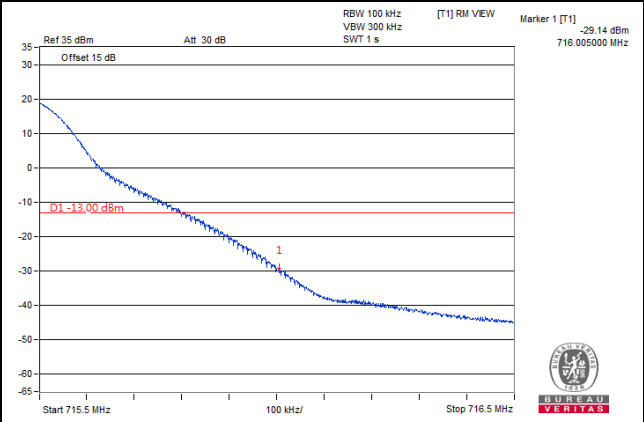
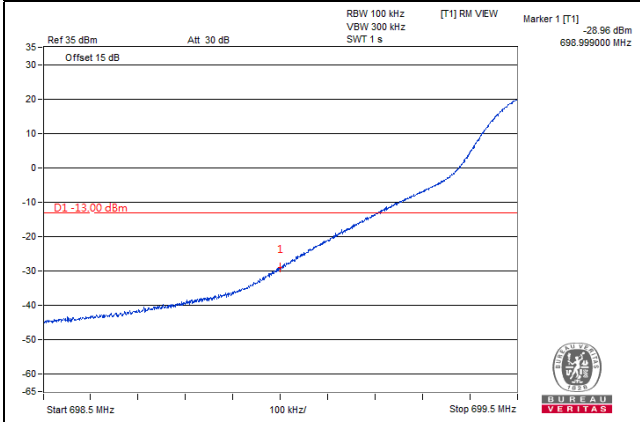


<b>Channel 23035 (701.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>	<b>Channel 23155 (713.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>
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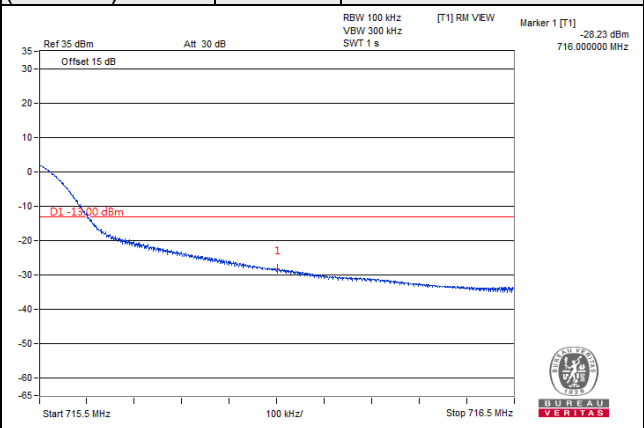
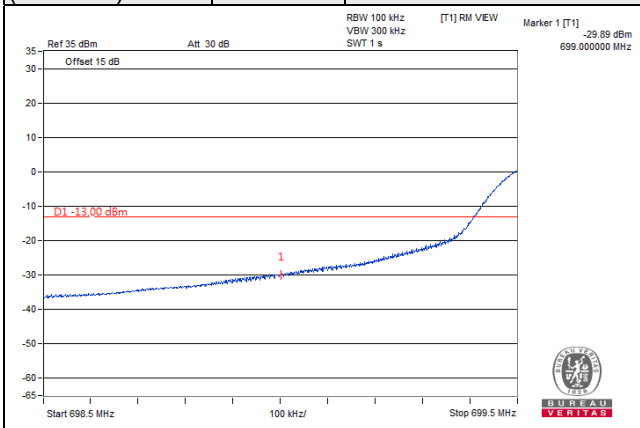


Channel Bandwidth: 10MHz

Channel 23060 (704MHz)	QPSK	1 RB / 0 RB Offset	Channel 23130 (711MHz)	QPSK	1 RB / 24RB Offset
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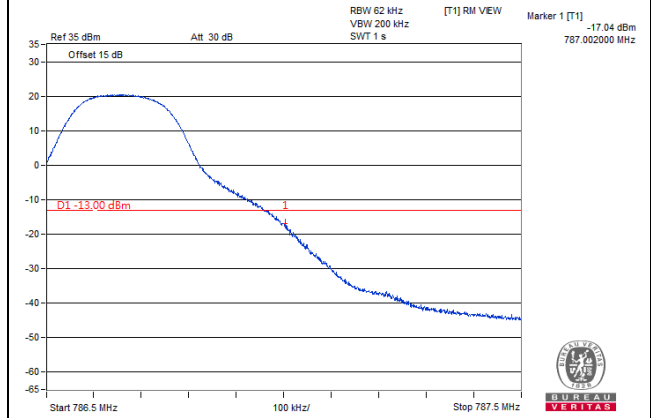
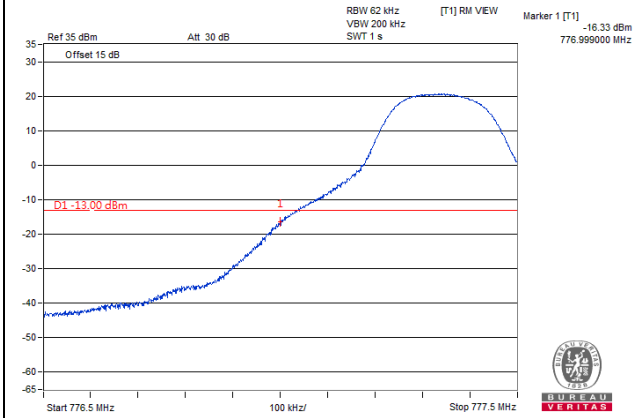
Channel 23060 (704MHz)	QPSK	50 RB / 0 RB Offset	Channel 23130 (711MHz)	QPSK	25 RB / 0 RB Offset
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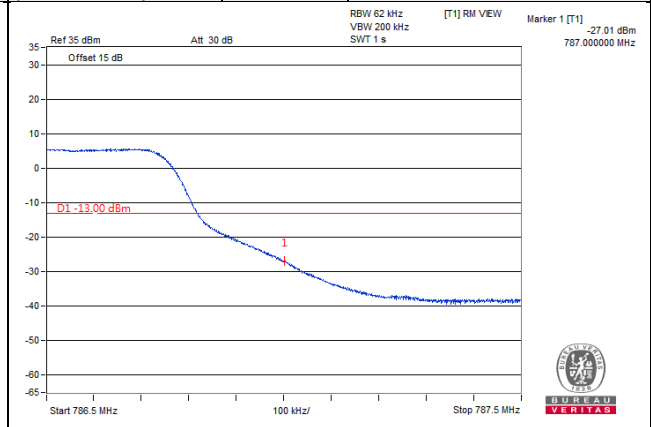
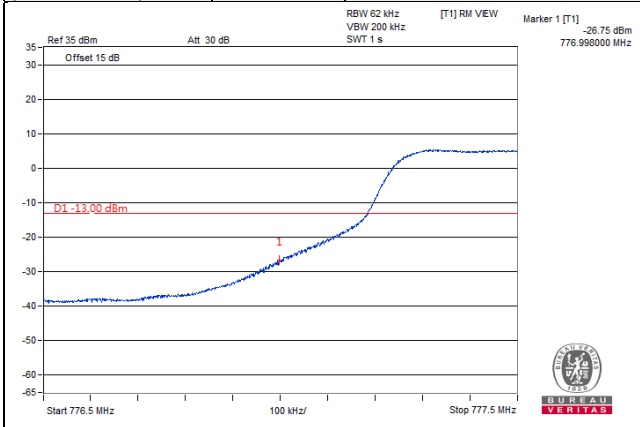
LTE Band 13

Channel Bandwidth: 5MHz

Channel 23205 (779.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 23255 (784.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 23205 (779.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 23255 (784.5MHz)	QPSK	25 RB / 0 RB Offset
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Channel Bandwidth: 10MHz

Channel 23230  
(782.0MHz)

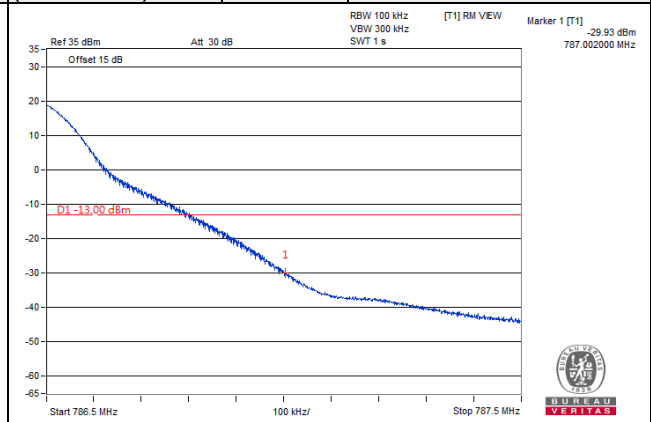
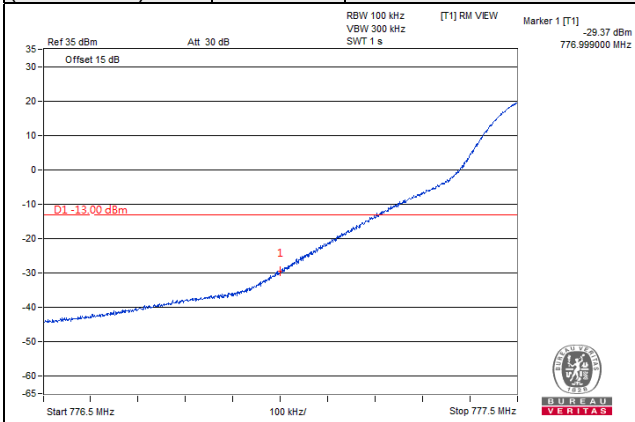
QPSK

1 RB / 0 RB Offset

Channel 23230  
(782.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 23230  
(782.0MHz)

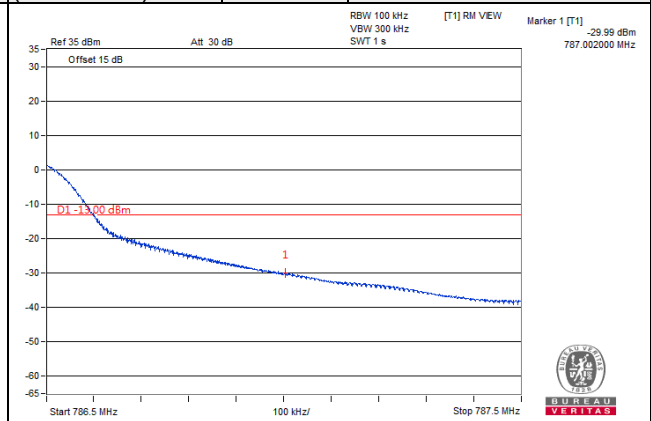
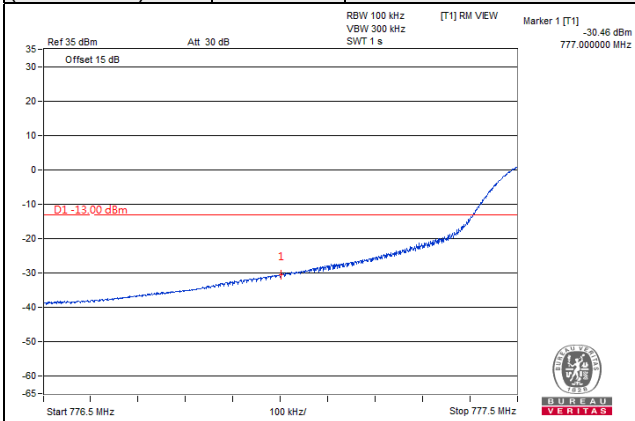
QPSK

50 RB / 0 RB Offset

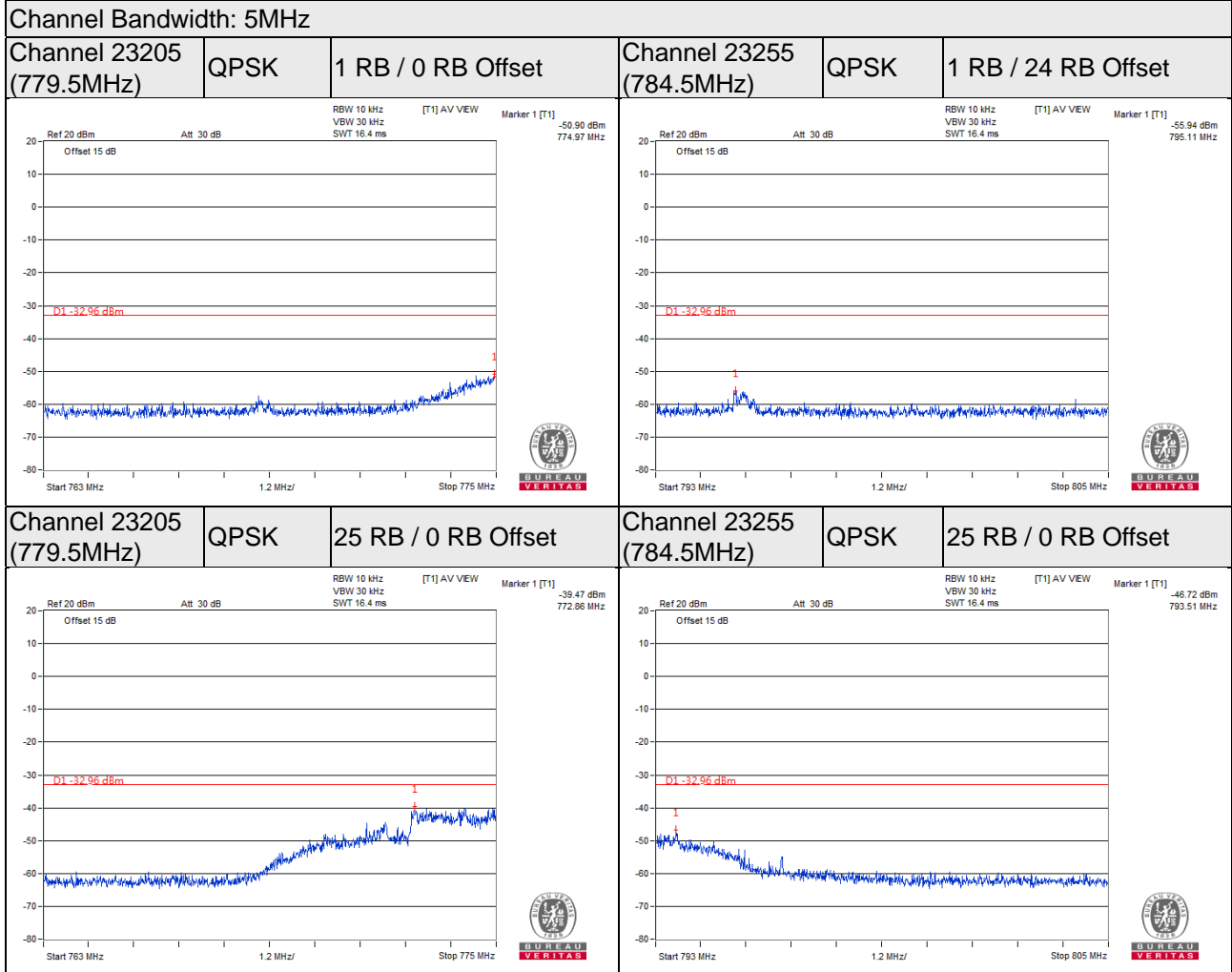
Channel 23230  
(782.0MHz)

QPSK

50 RB / 0 RB Offset



### Emission Mask

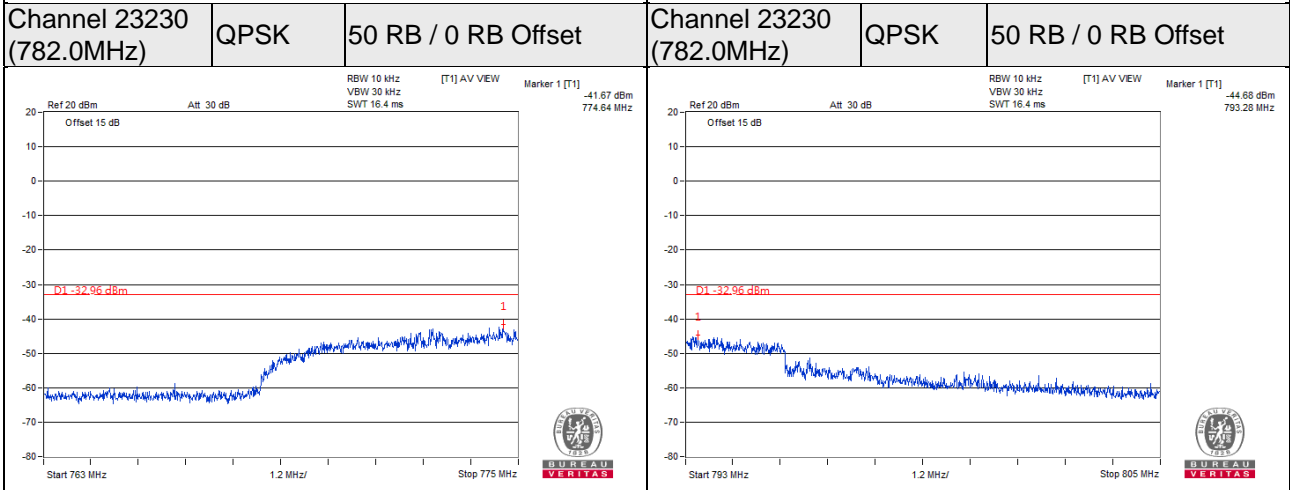
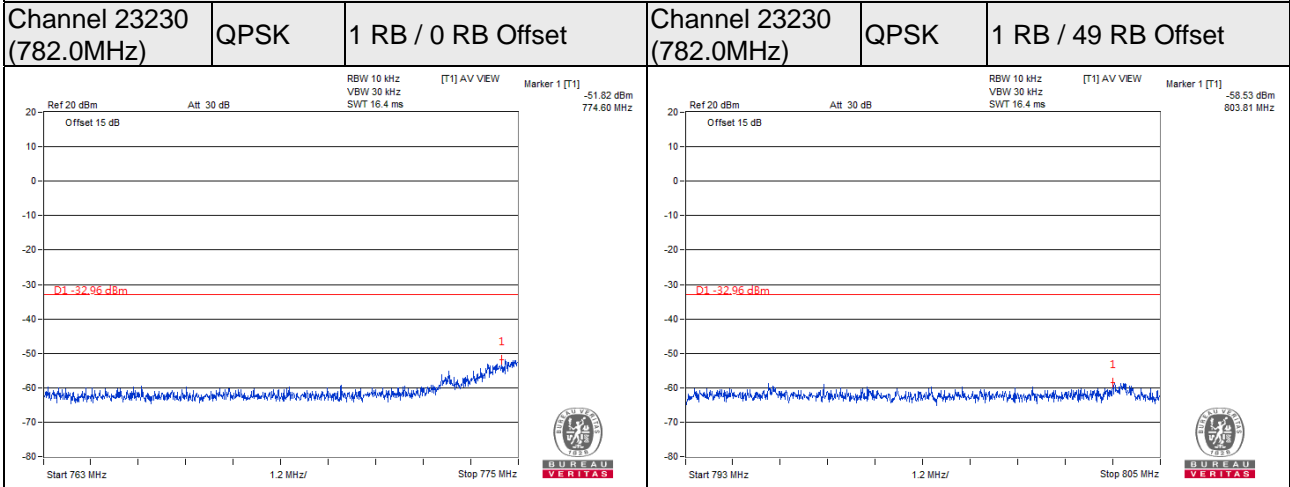


For the 763 - 775 MHz and 793 - 805 MHz band, the FCC limit is  $65+10\log(P[\text{watt}])$  in a 6.25 kHz bandwidth. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10\log(10\text{kHz}/6.25\text{kHz}) = 2.04 \text{ dB}$$

$$\text{Limit line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

Channel Bandwidth: 10MHz



For the 763 - 775 MHz and 793 - 805 MHz band, the FCC limit is  $65+10\log(P[\text{watt}])$  in a 6.25 kHz bandwidth. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10\log(10\text{kHz}/6.25\text{kHz}) = 2.04 \text{ dB}$$

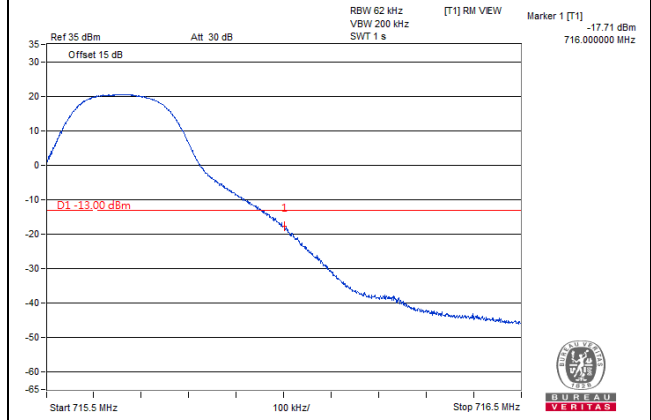
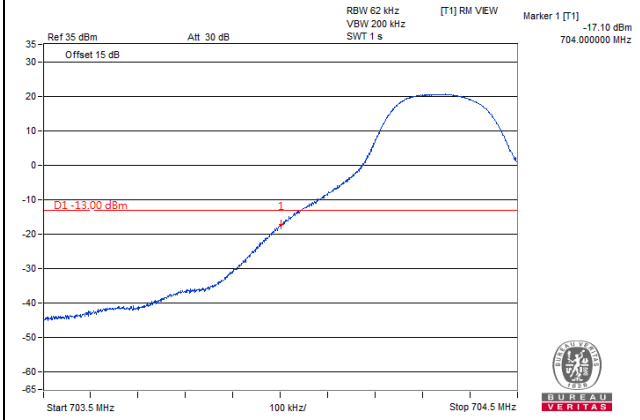
$$\text{Limit line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$



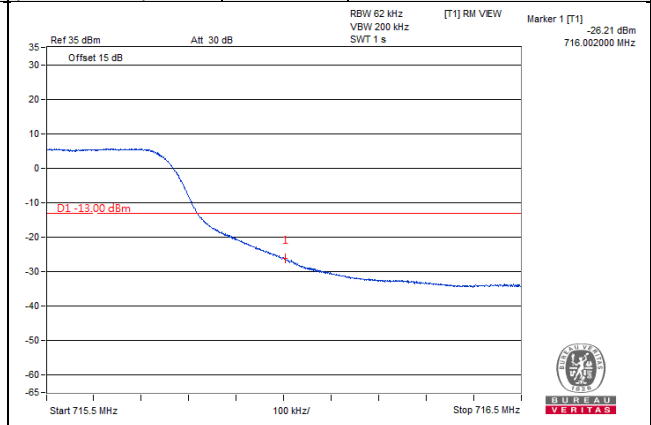
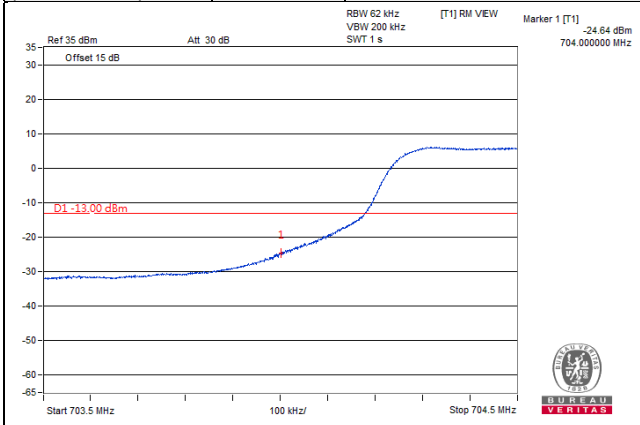
LTE Band 17

Channel Bandwidth: 5MHz

Channel 23755 (706.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 23825 (713.5MHz)	QPSK	1 RB / 24 RB Offset
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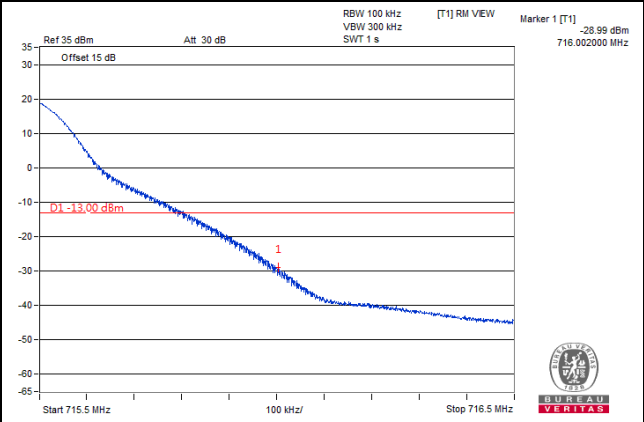
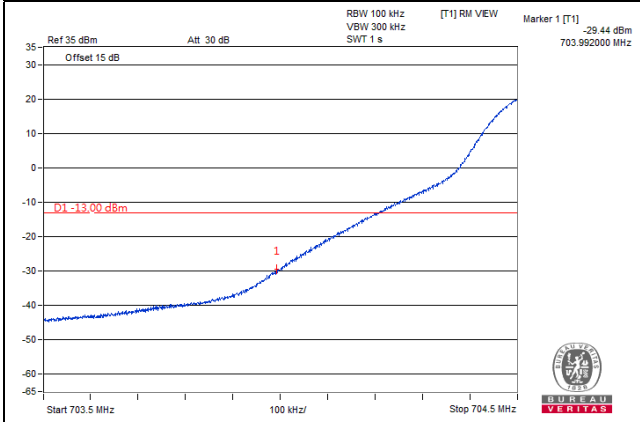


Channel 23755 (706.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 23825 (713.5MHz)	QPSK	25 RB / 0 RB Offset
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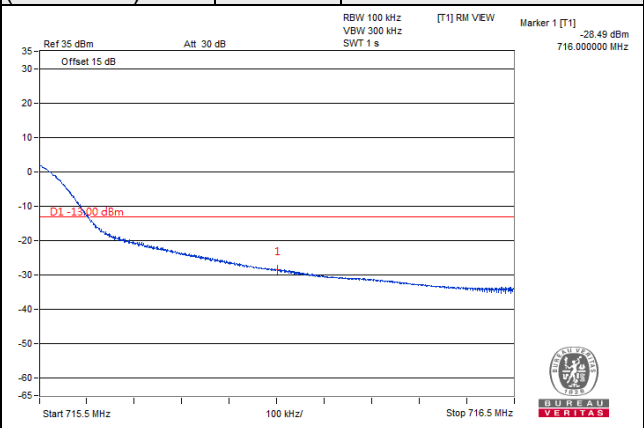
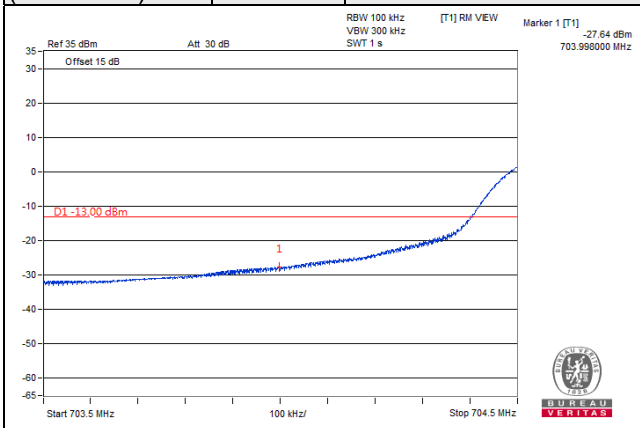


**Channel Bandwidth: 10MHz**

<b>Channel 23780 (709.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 23800 (711.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 49 RB Offset</b>
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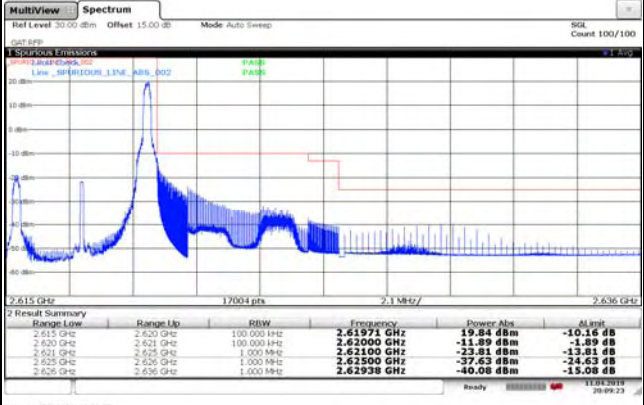
<b>Channel 23780 (709.0MHz)</b>	<b>QPSK</b>	<b>50 RB / 0 RB Offset</b>	<b>Channel 23800 (711.0MHz)</b>	<b>QPSK</b>	<b>50 RB / 0 RB Offset</b>
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LTE Band 38

Channel Bandwidth: 5MHz

Channel 37775 (2572.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 37775  
(2572.5MHz)

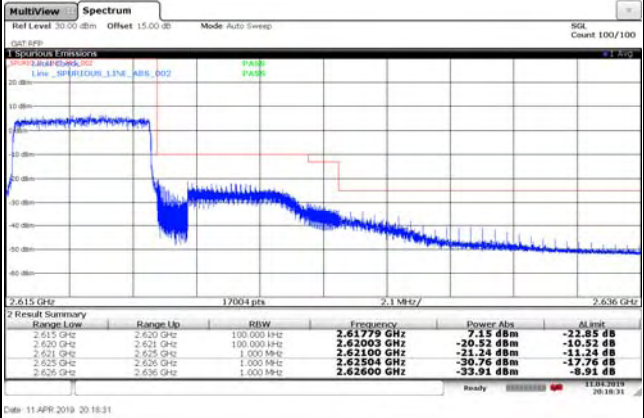
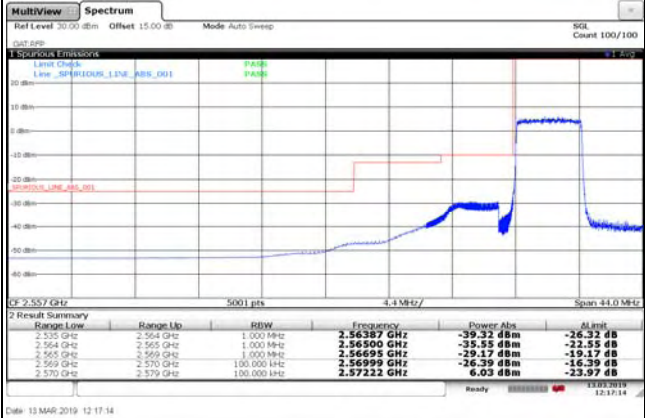
QPSK

25 RB / 0 RB Offset

Channel 38225  
(2617.5MHz)

QPSK

25 RB / 0 RB Offset



Channel Bandwidth: 10MHz

Channel 37800  
(2575.0MHz)

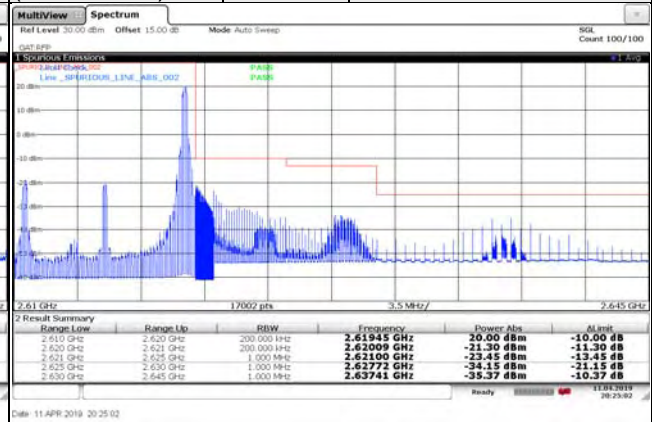
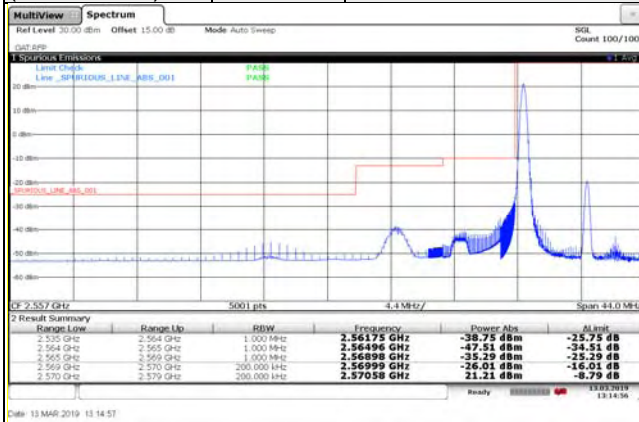
QPSK

1 RB / 0 RB Offset

Channel 38200  
(2615.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 37800  
(2575.0MHz)

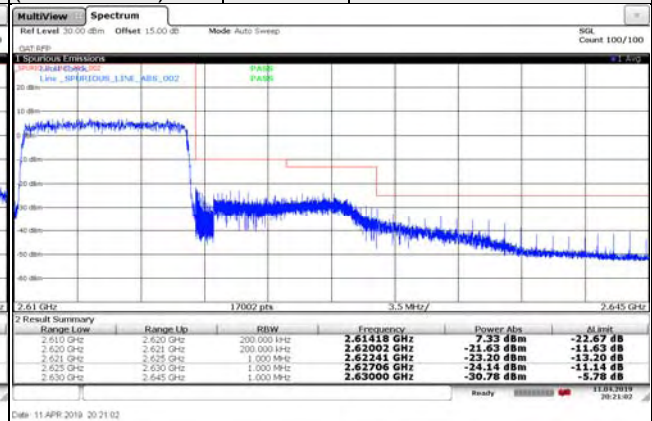
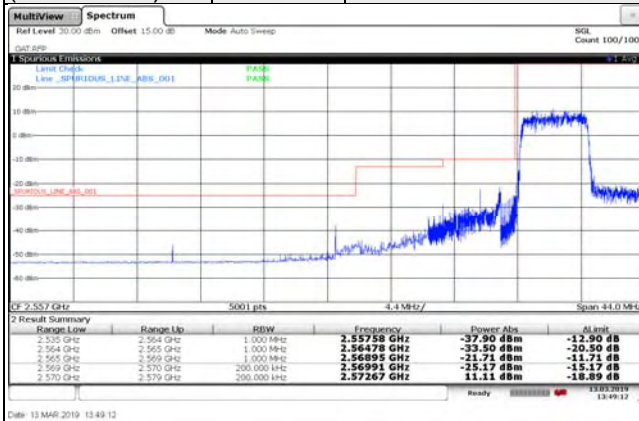
QPSK

50 RB / 0 RB Offset

Channel 38200  
(2615.0MHz)

QPSK

50 RB / 0 RB Offset



Channel Bandwidth: 15MHz

Channel 37825  
(2577.5MHz)

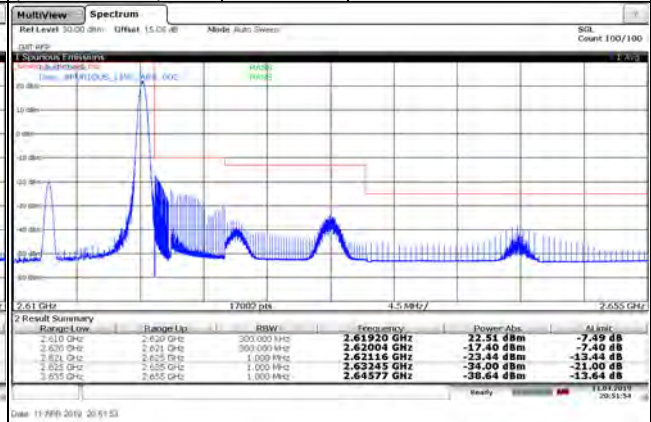
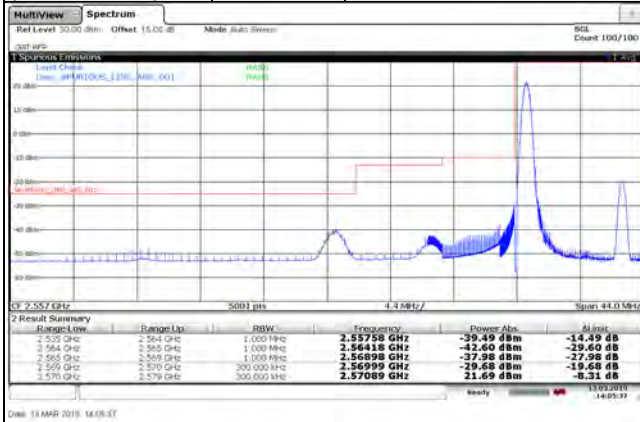
QPSK

1 RB / 0 RB Offset

Channel 38175  
(2612.5MHz)

QPSK

1 RB / 74RB Offset



Channel 37825  
(2577.5MHz)

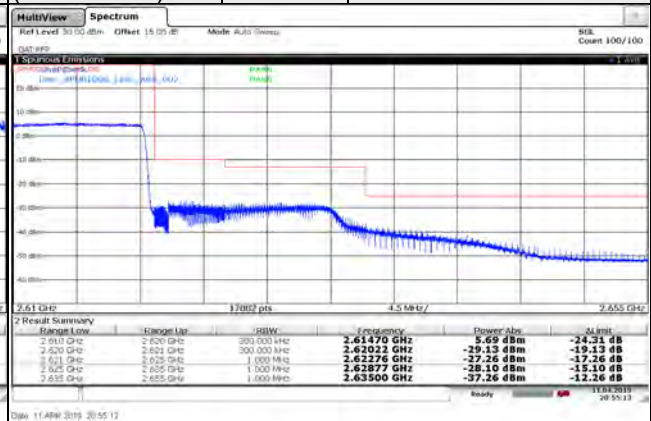
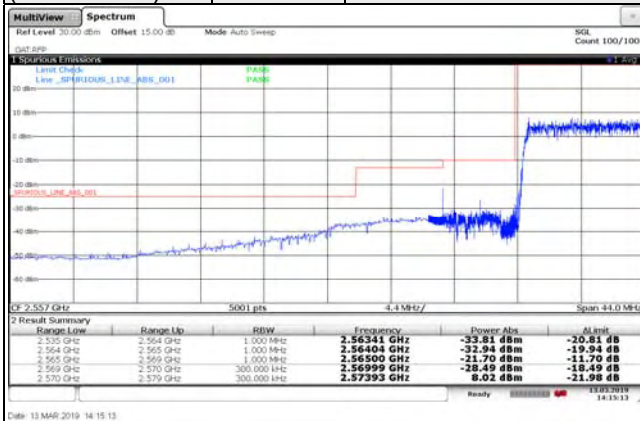
QPSK

75 RB / 0 RB Offset

Channel 38175  
(2612.5MHz)

QPSK

75 RB / 0 RB Offset



Channel Bandwidth: 20MHz

Channel 37850  
(2580.0MHz)

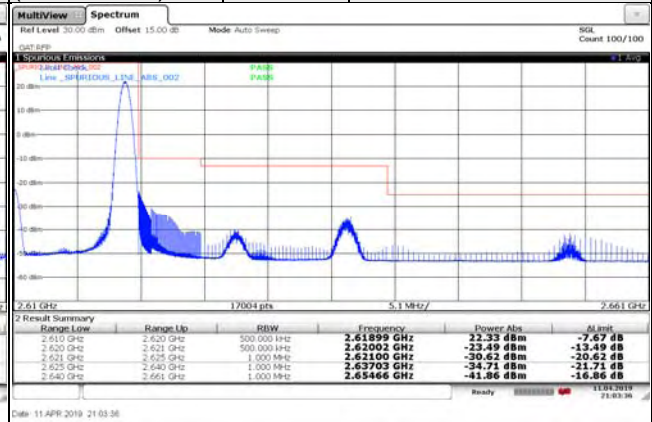
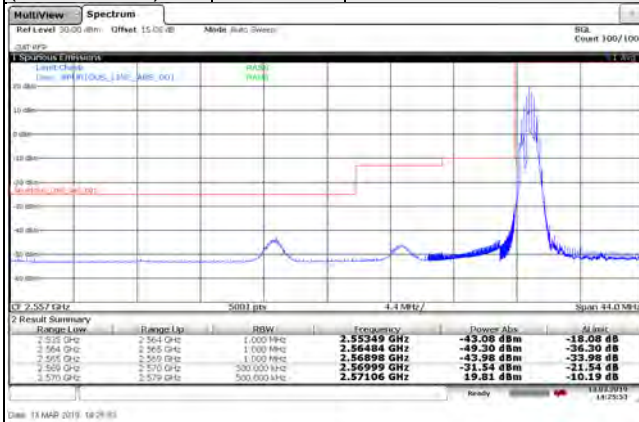
QPSK

1 RB / 0 RB Offset

Channel 38150  
(2610.0MHz)

QPSK

1 RB / 99 RB Offset



Channel 37850  
(2580.0MHz)

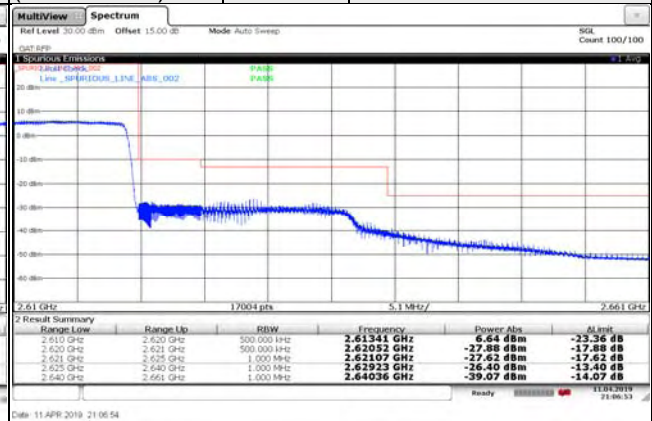
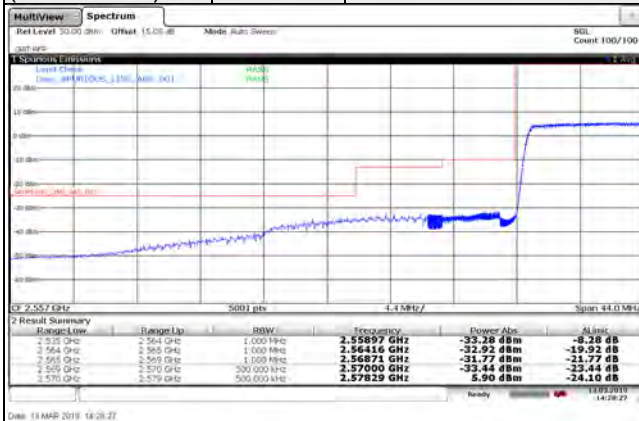
QPSK

100 RB / 0 RB Offset

Channel 38150  
(2610.0MHz)

QPSK

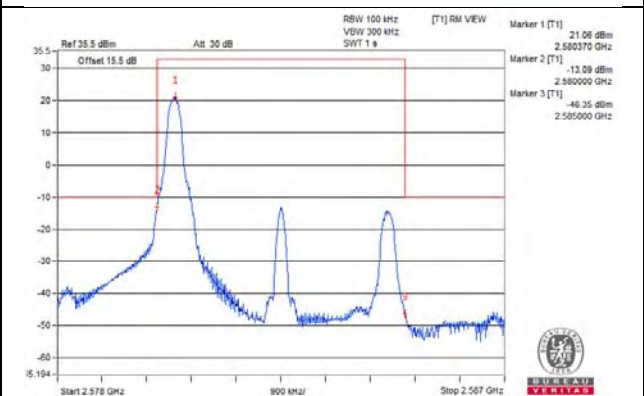
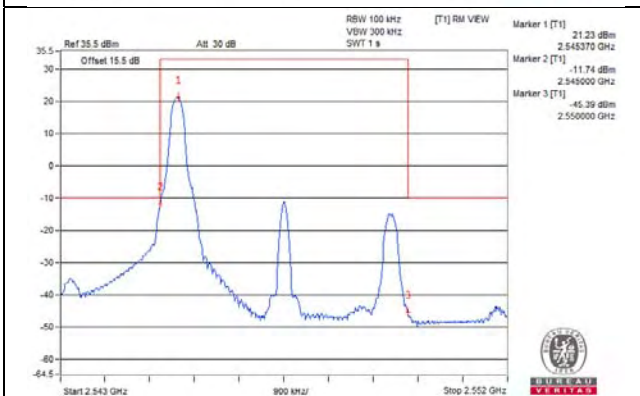
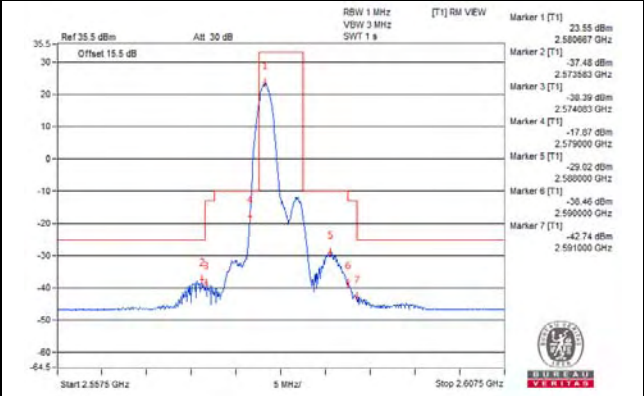
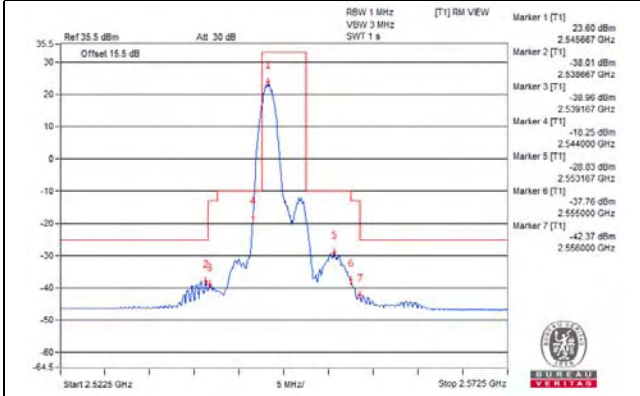
100 RB / 0 RB Offset



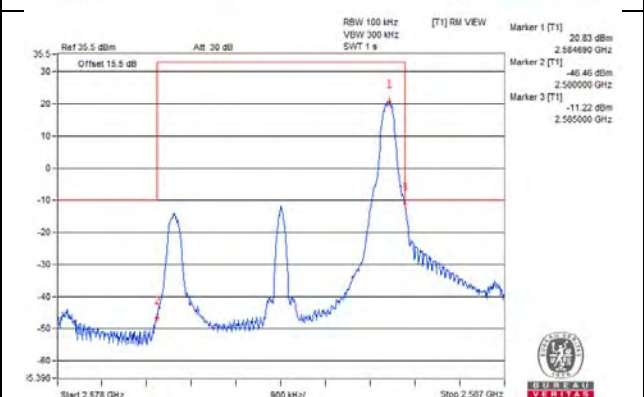
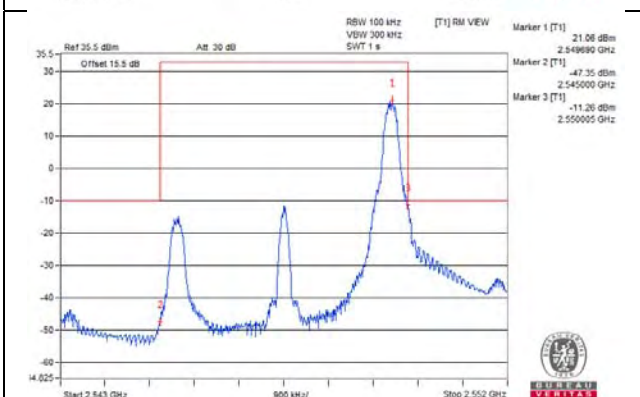
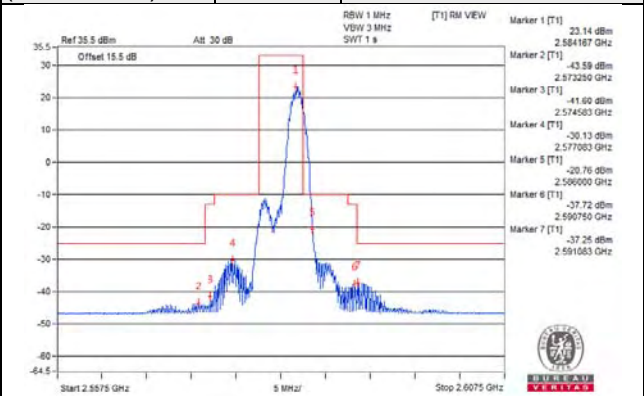
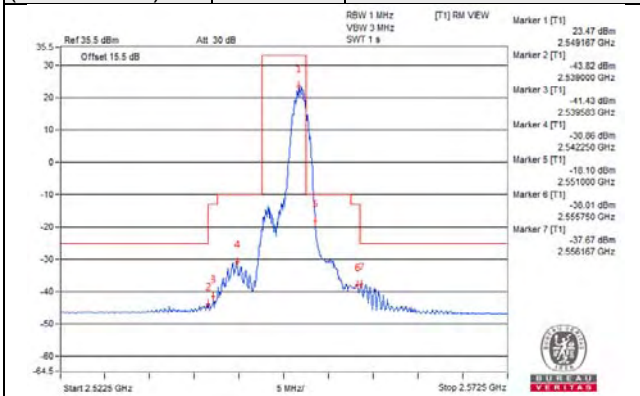
LTE Band 41

Channel Bandwidth: 5MHz

Channel 40165 (2547.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 40545 (2582.5MHz)	QPSK	1 RB / 0 RB Offset
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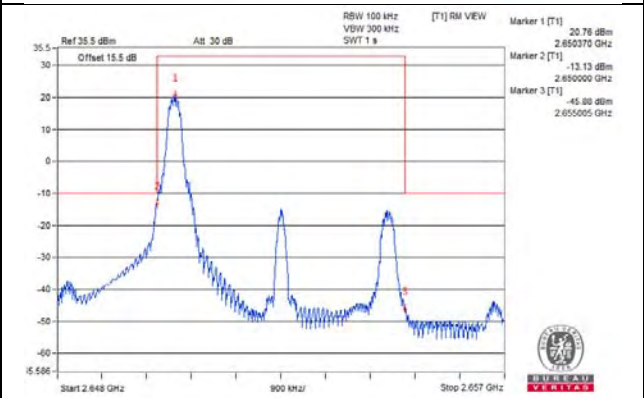
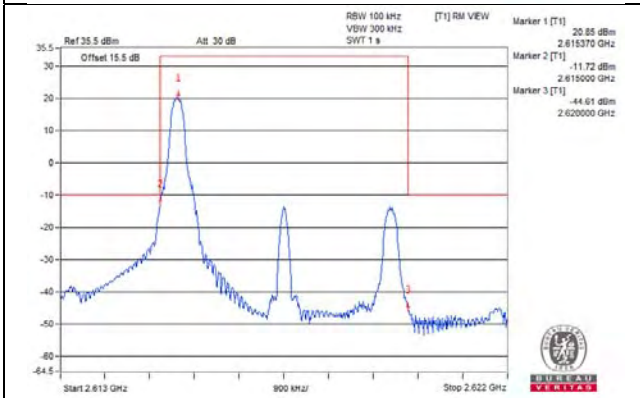
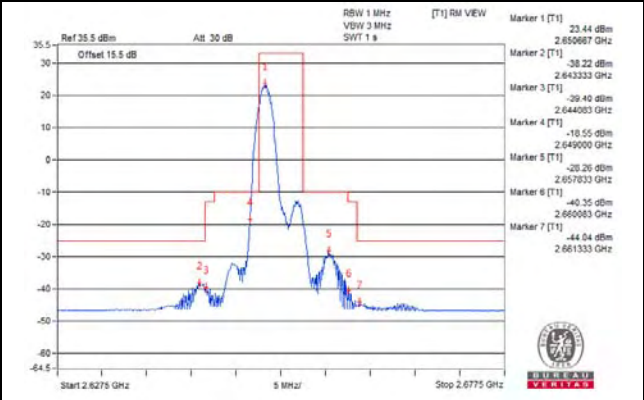
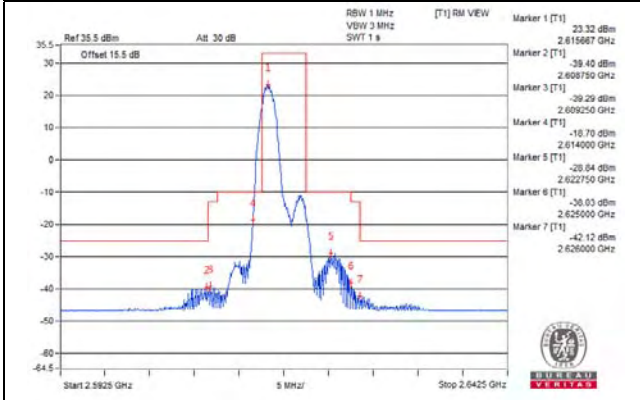


Channel 40165 (2547.5MHz)	QPSK	1 RB / 24 RB Offset	Channel 40545 (2582.5MHz)	QPSK	1 RB / 24 RB Offset
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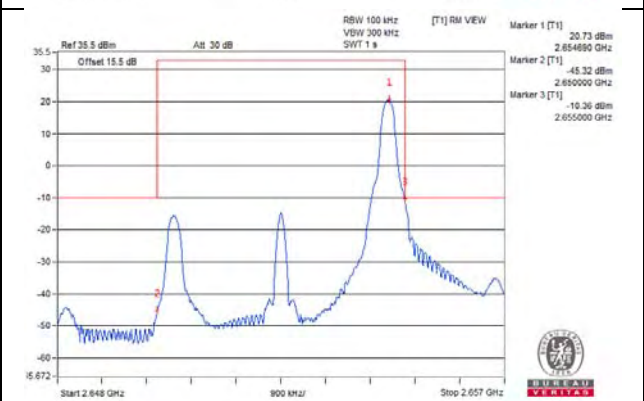
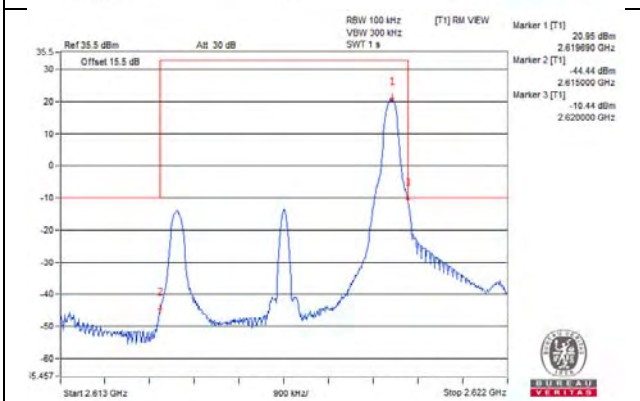
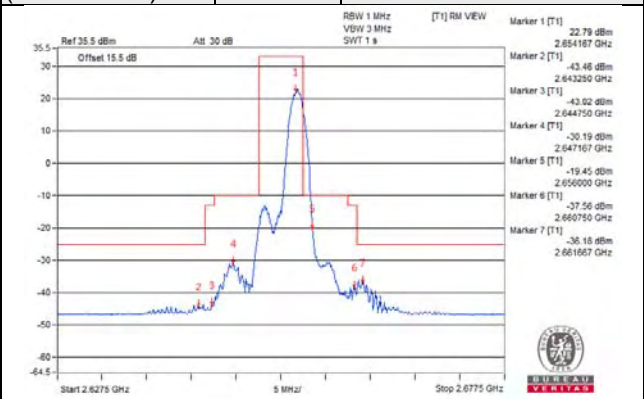
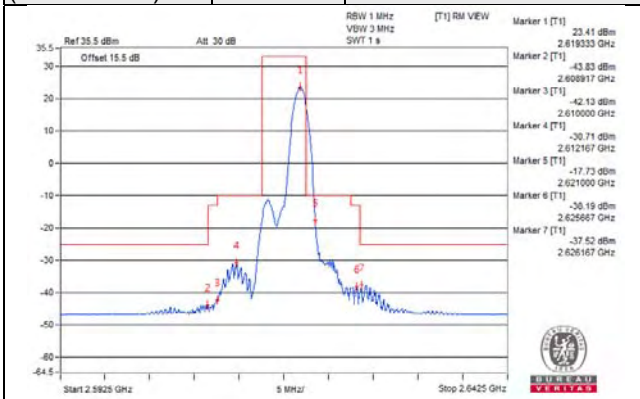


**Channel Bandwidth: 5MHz**

<b>Channel 40865 (2617.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 41215 (2652.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>
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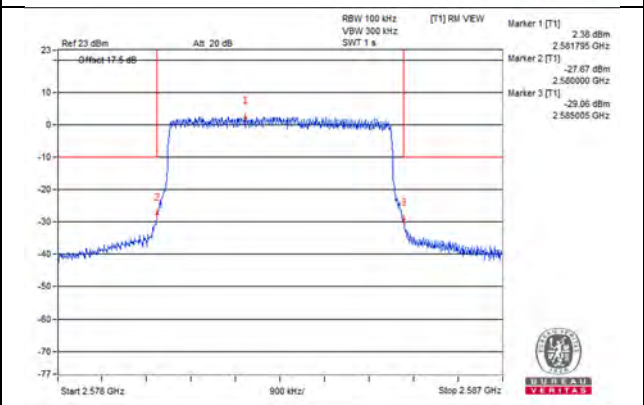
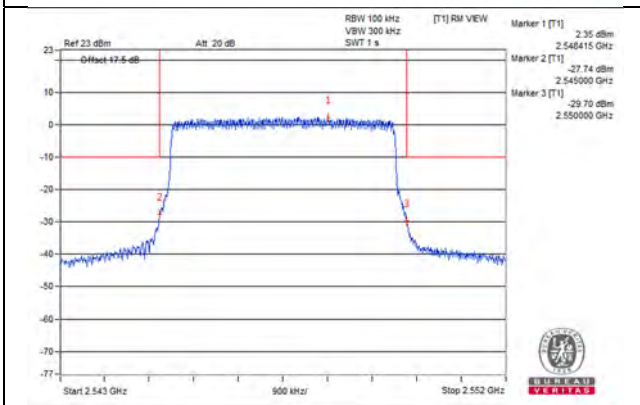
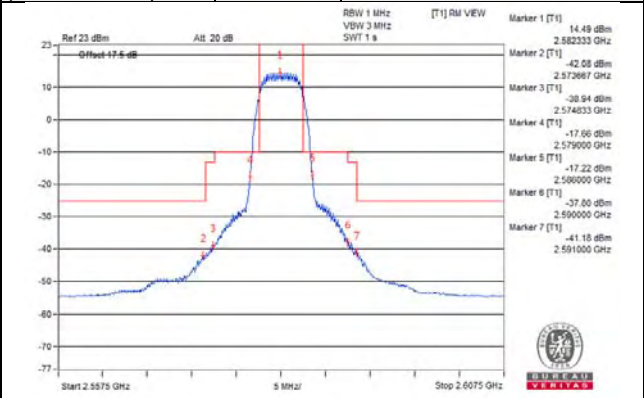
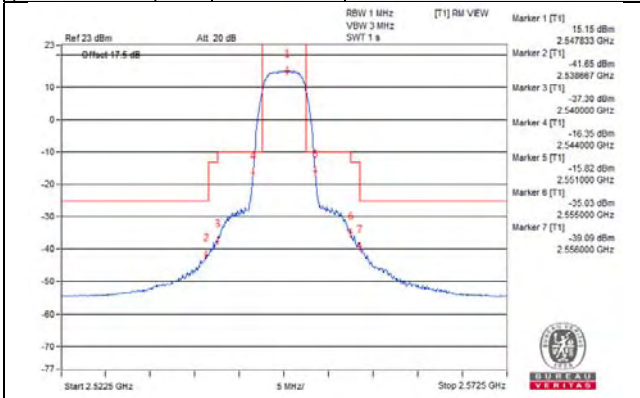
<b>Channel 40865 (2617.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 24 RB Offset</b>	<b>Channel 41215 (2652.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 24 RB Offset</b>
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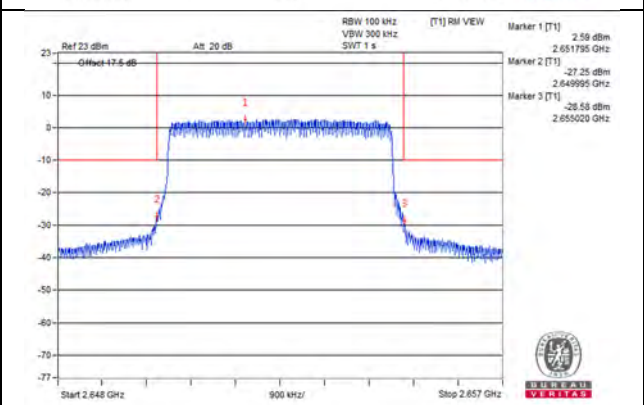
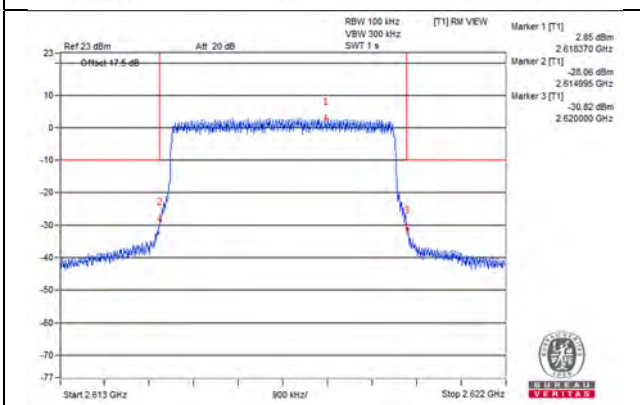
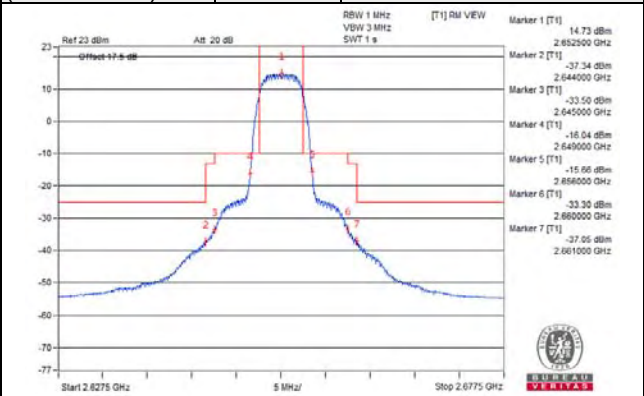
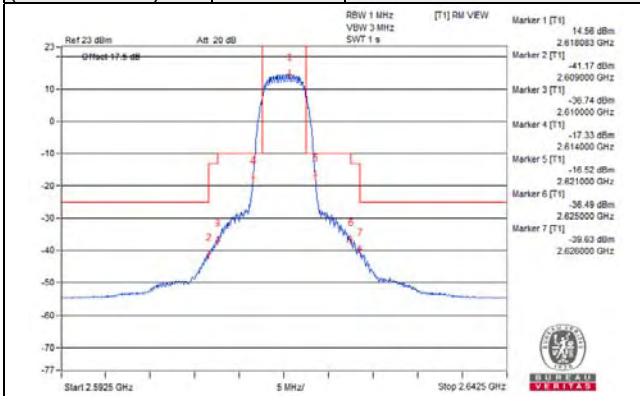


**Channel Bandwidth: 5MHz**

<b>Channel 40165 (2547.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>	<b>Channel 40545 (2582.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>
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<b>Channel 40865 (2617.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>	<b>Channel 41215 (2652.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>
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Channel Bandwidth: 10MHz

Channel 40190  
(2550.0MHz)

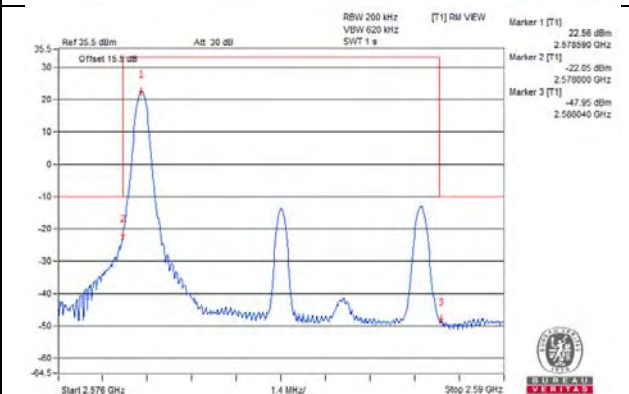
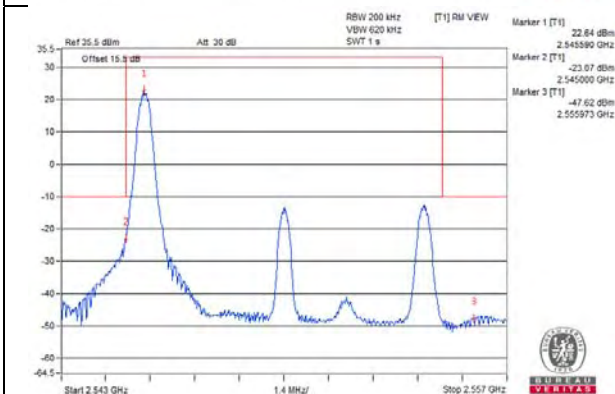
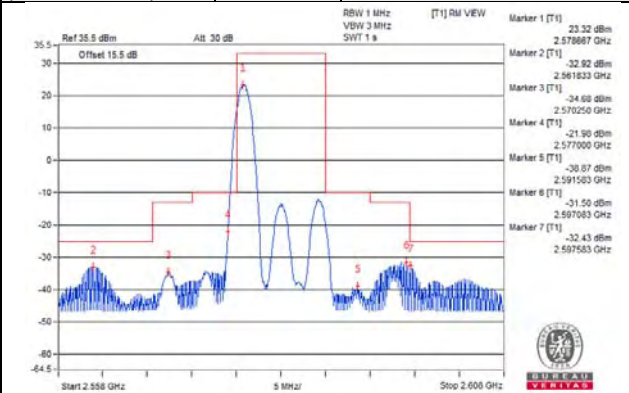
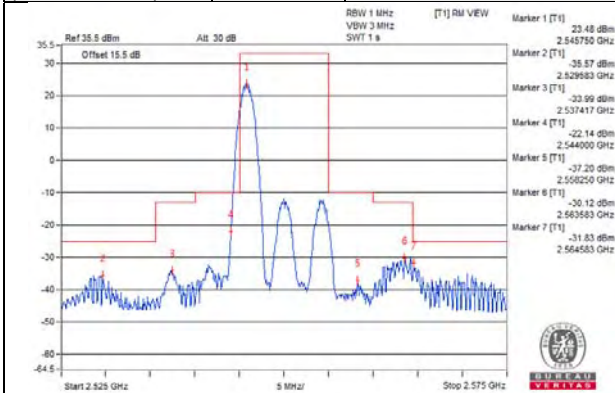
QPSK

1 RB / 0 RB Offset

Channel 40520  
(2583.0MHz)

QPSK

1 RB / 0 RB Offset



Channel 40190  
(2550.0MHz)

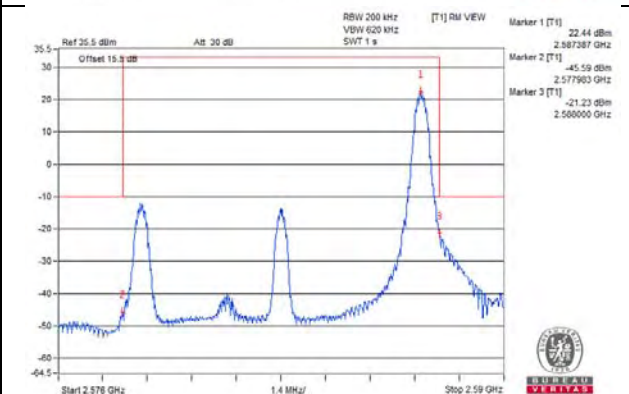
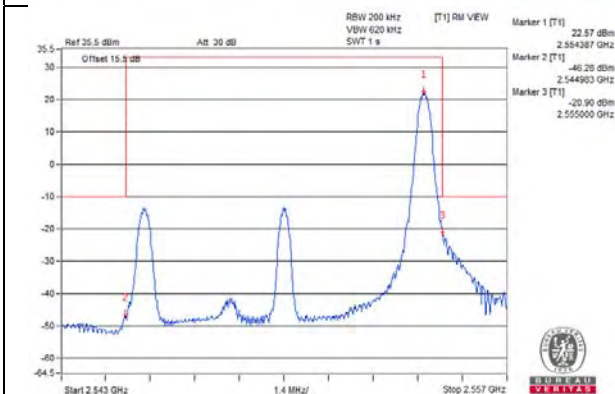
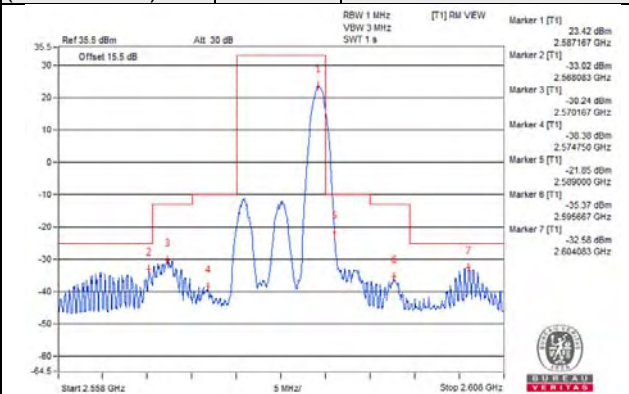
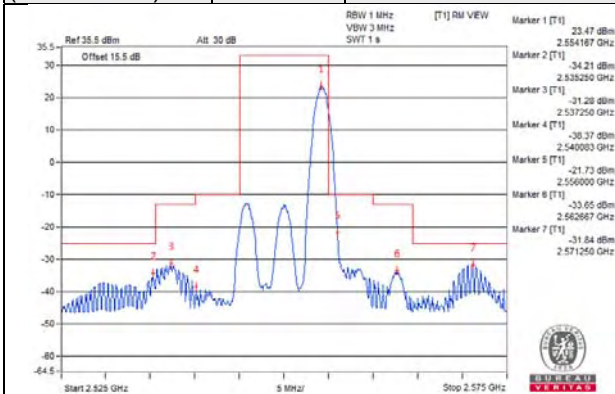
QPSK

1 RB / 49 RB Offset

Channel 40520  
(2583.0MHz)

QPSK

1 RB / 49 RB Offset



Channel Bandwidth: 10MHz

Channel 40850  
(2616.0MHz)

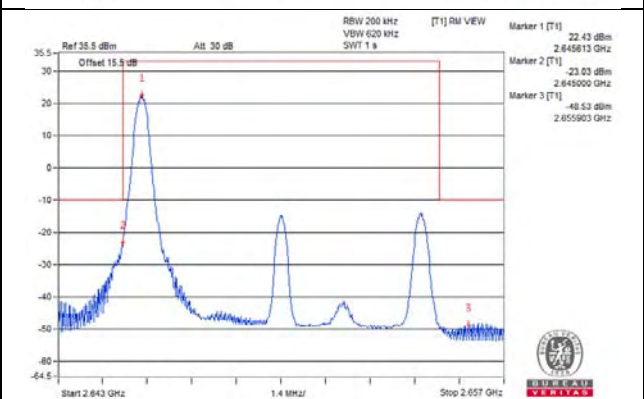
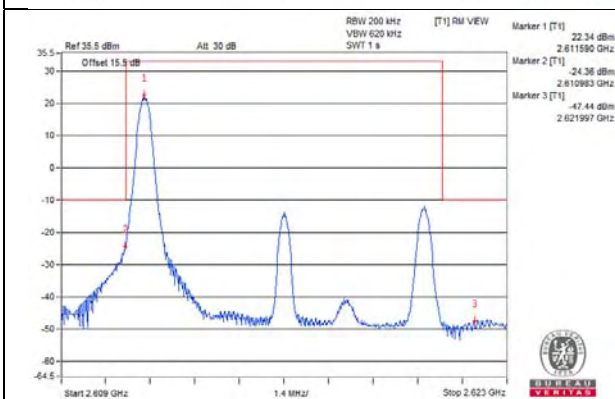
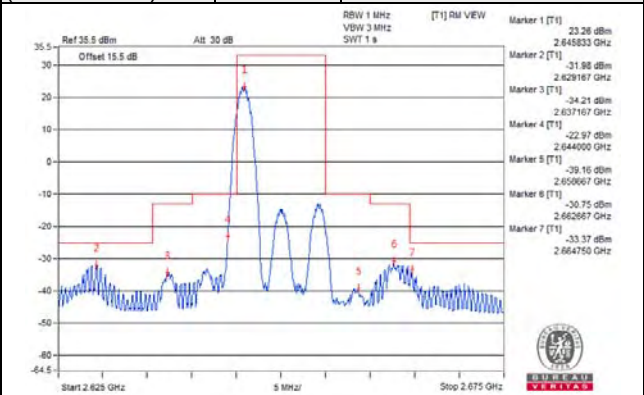
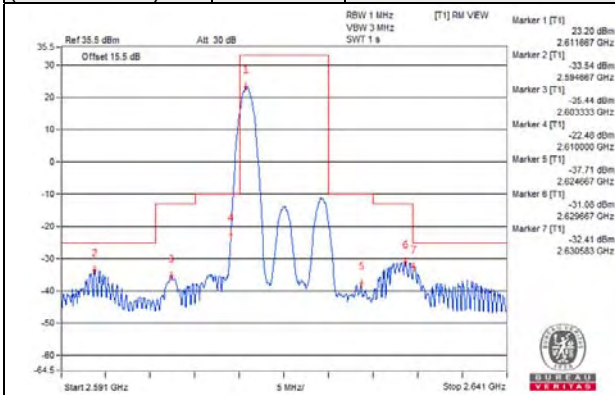
QPSK

1 RB / 0 RB Offset

Channel 41190  
(2650.0MHz)

QPSK

1 RB / 0 RB Offset



Channel 40850  
(2616.0MHz)

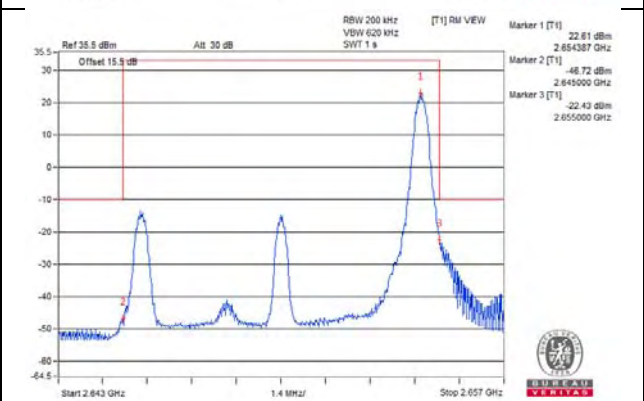
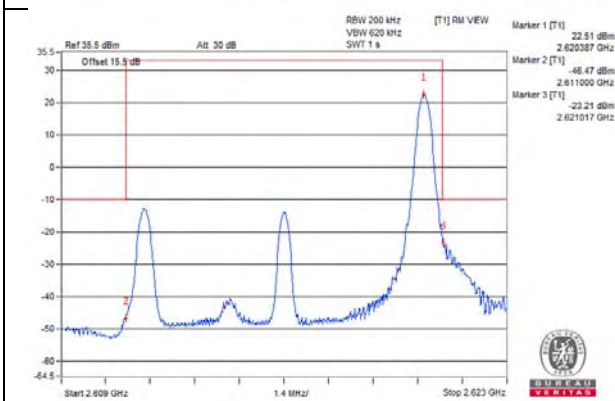
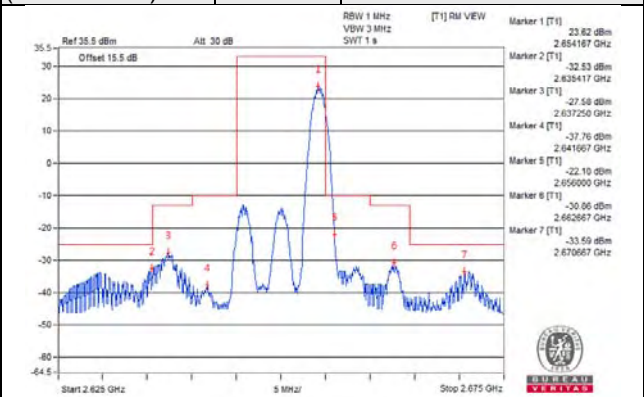
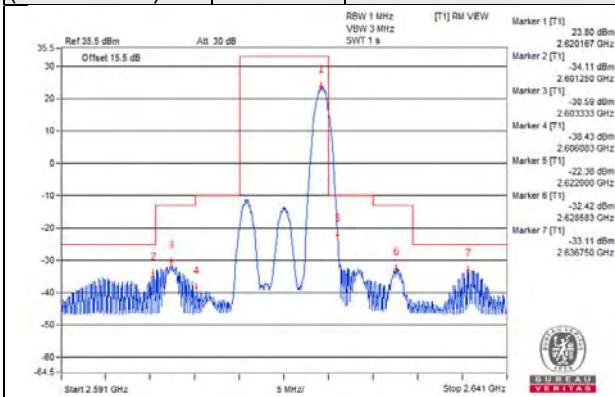
QPSK

1 RB / 49 RB Offset

Channel 41190  
(2650.0MHz)

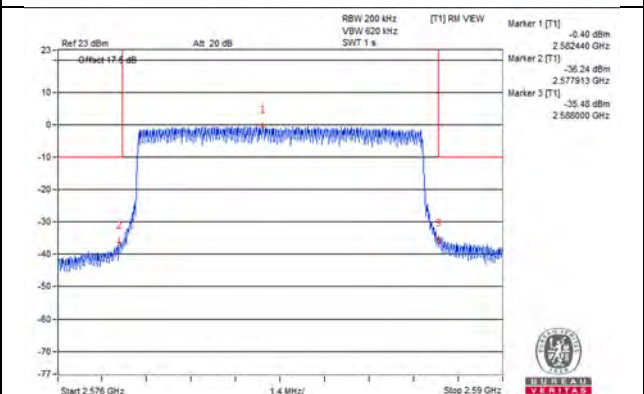
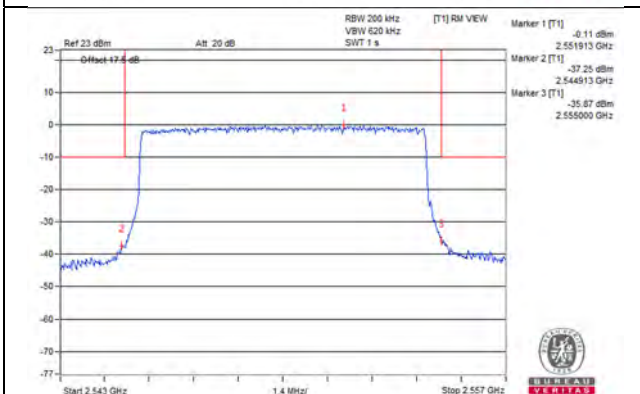
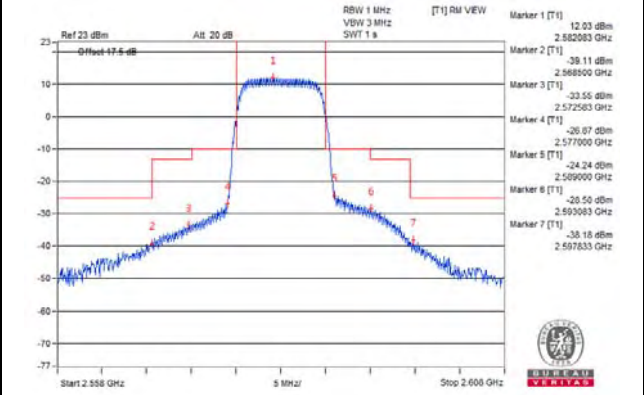
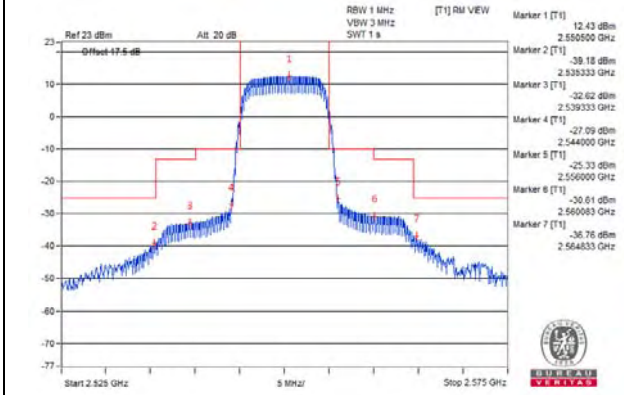
QPSK

1 RB / 49 RB Offset

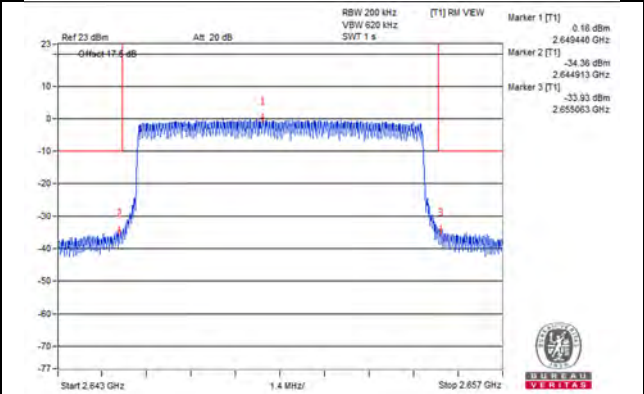
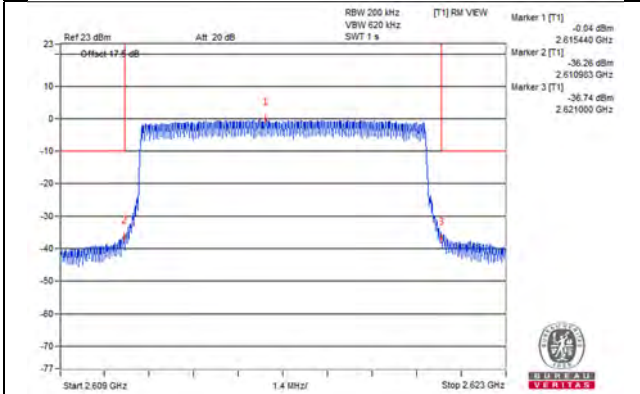
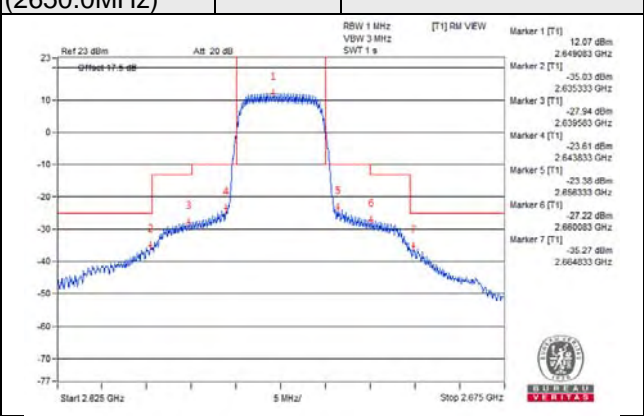
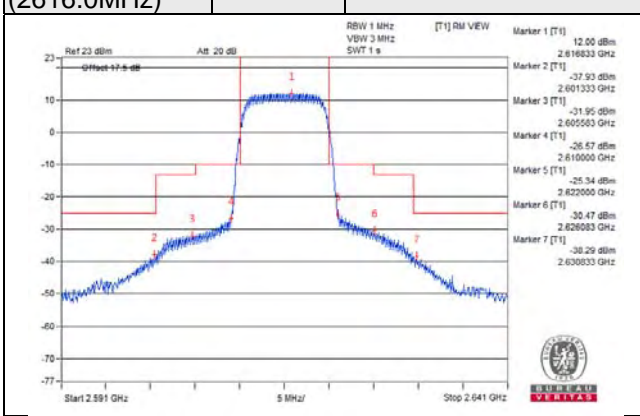


Channel Bandwidth: 10MHz

Channel 40190 (2550.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 40520 (2583.0MHz)	QPSK	50 RB / 0 RB Offset
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Channel 40850 (2616.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 41190 (2650.0MHz)	QPSK	50 RB / 0 RB Offset
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Channel Bandwidth: 15MHz

Channel 40215  
(2552.5MHz)

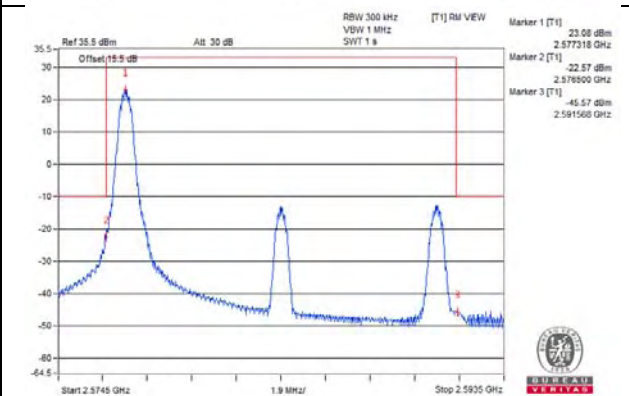
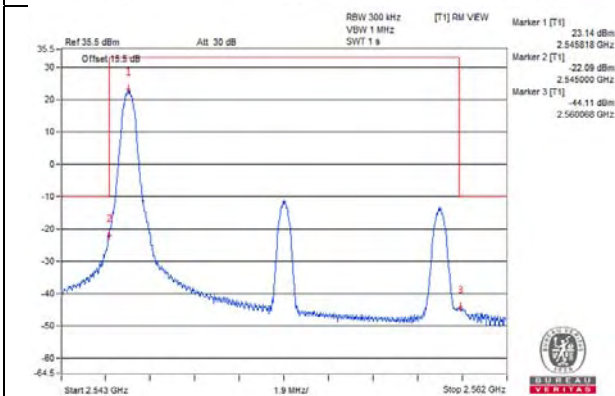
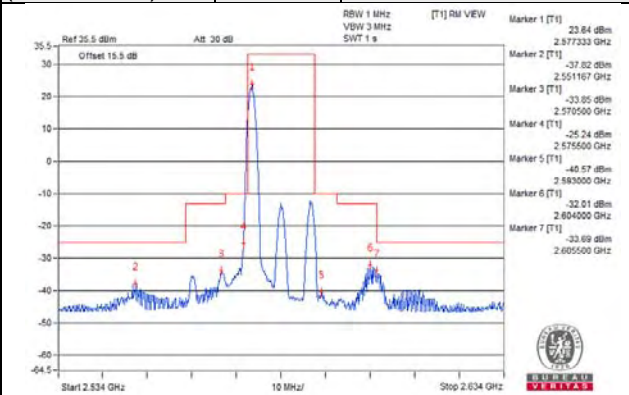
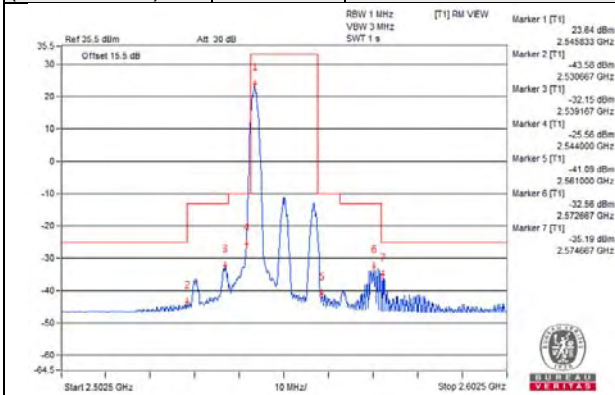
QPSK

1 RB / 0 RB Offset

Channel 40530  
(2584.0MHz)

QPSK

1 RB / 0 RB Offset



Channel 40215  
(2552.5MHz)

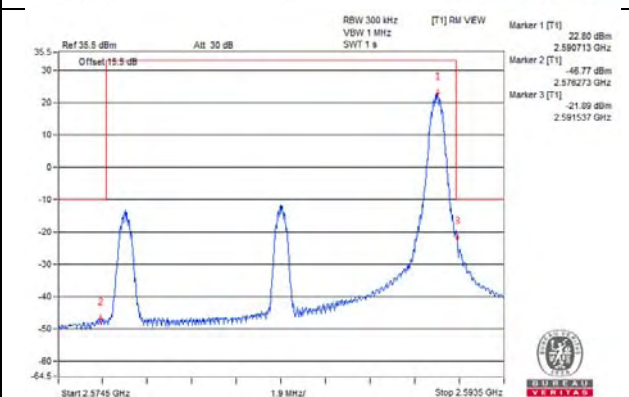
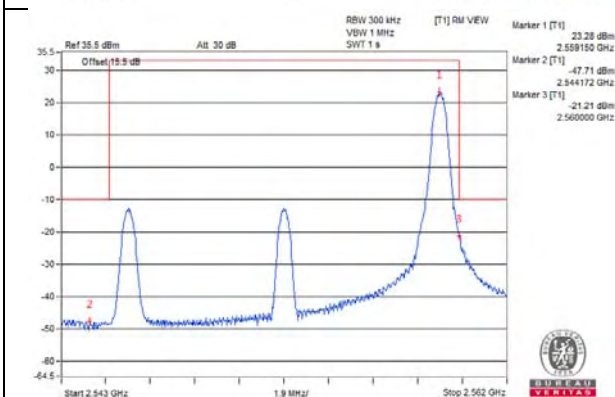
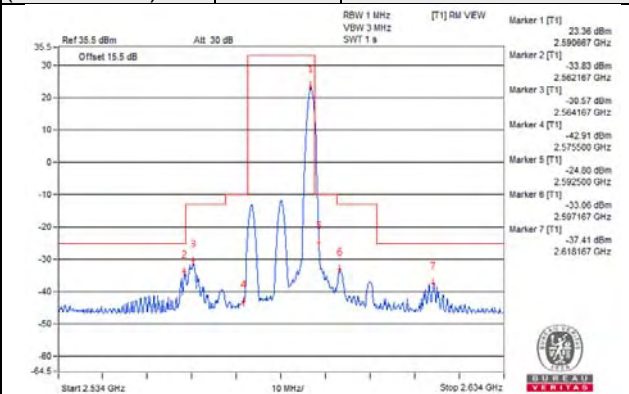
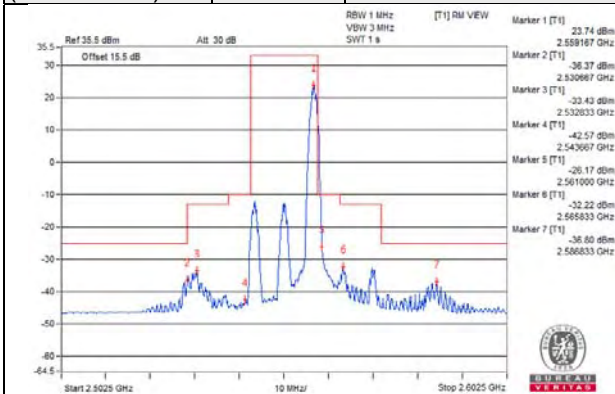
QPSK

1 RB / 74 RB Offset

Channel 40530  
(2584.0MHz)

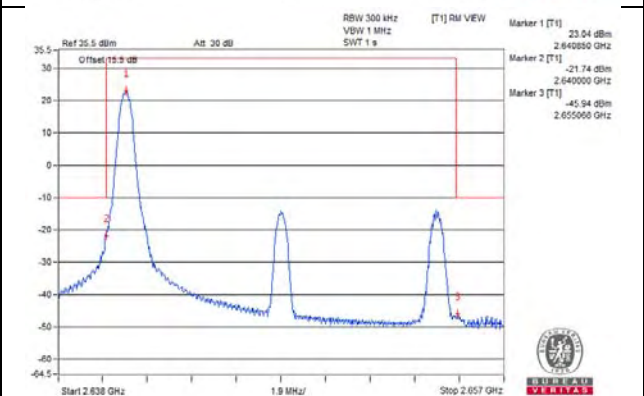
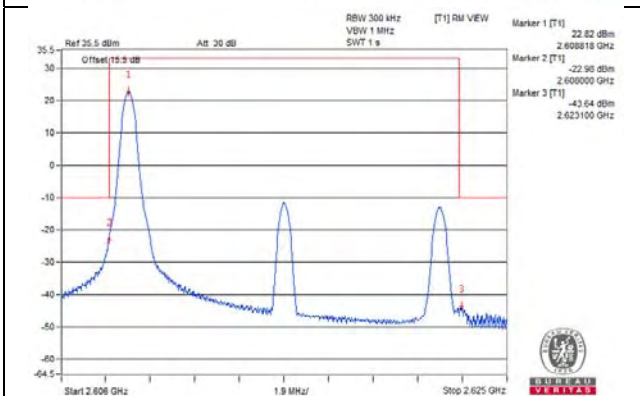
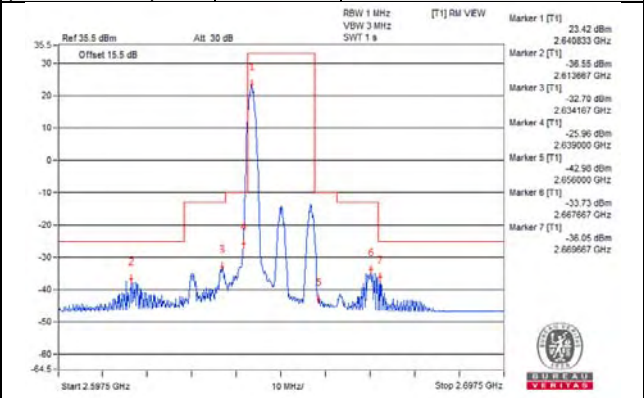
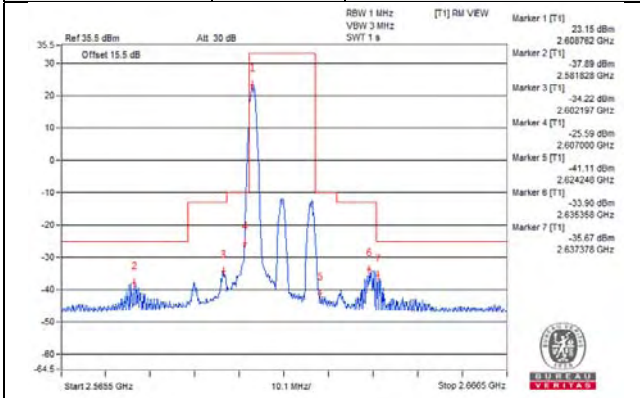
QPSK

1 RB / 74 RB Offset

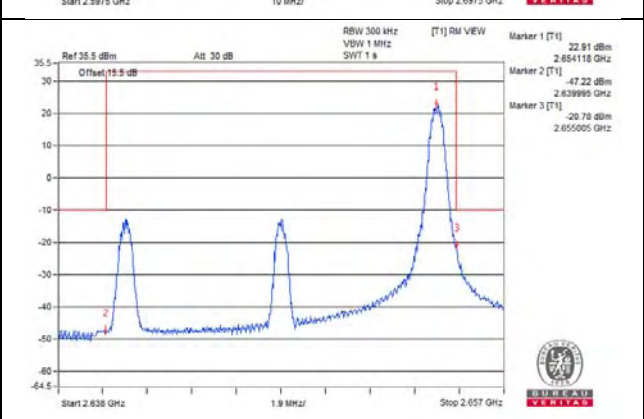
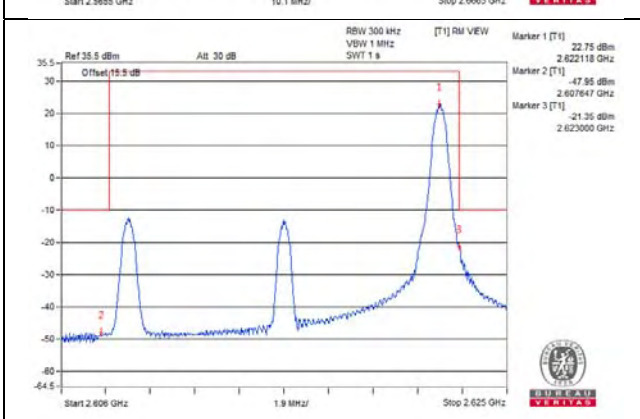
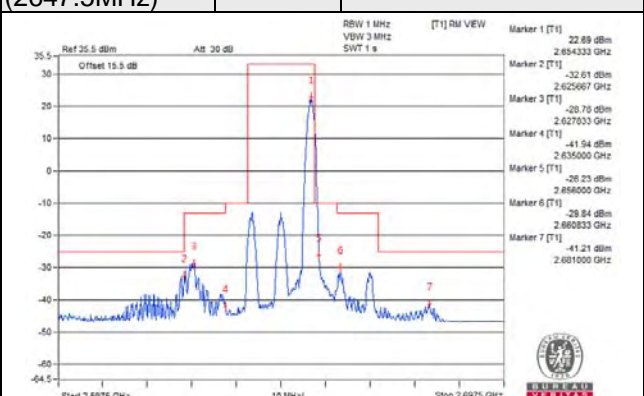
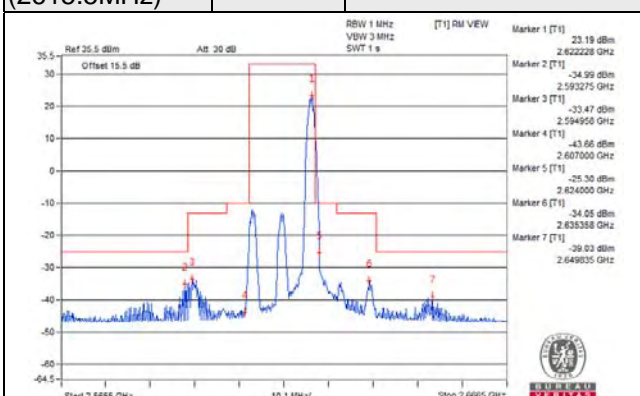


**Channel Bandwidth: 15MHz**

<b>Channel 40845 (2615.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 41165 (2647.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>
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<b>Channel 40845 (2615.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 74 RB Offset</b>	<b>Channel 41165 (2647.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 74 RB Offset</b>
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**Channel Bandwidth: 15MHz**

**Channel 40215  
(2552.5MHz)**

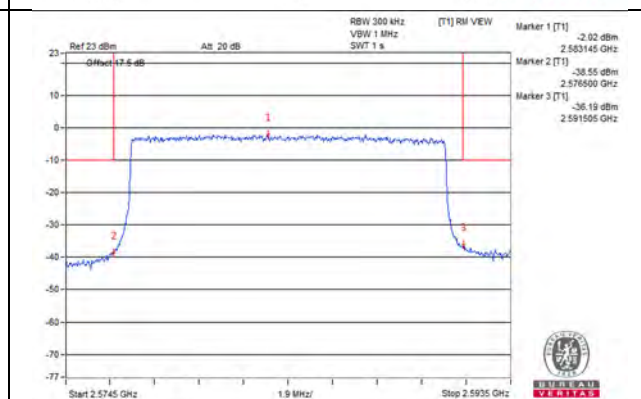
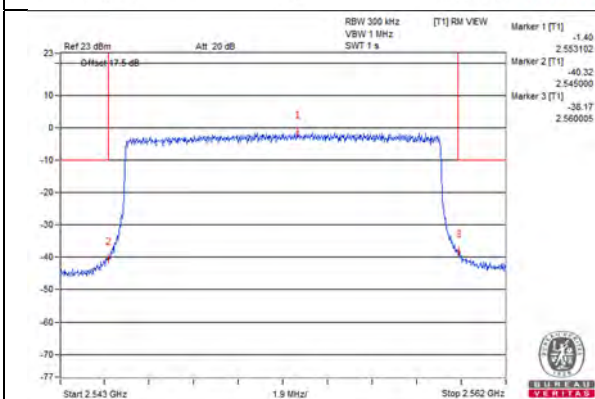
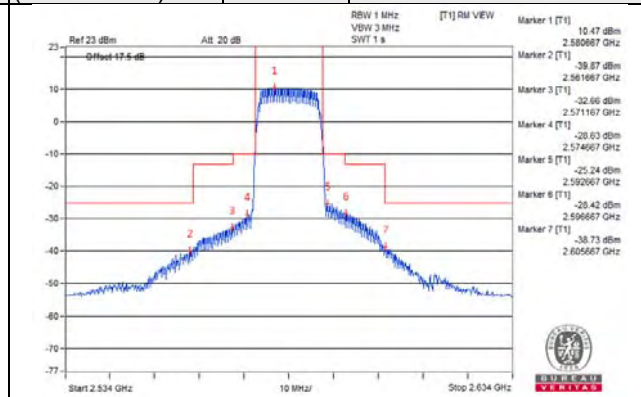
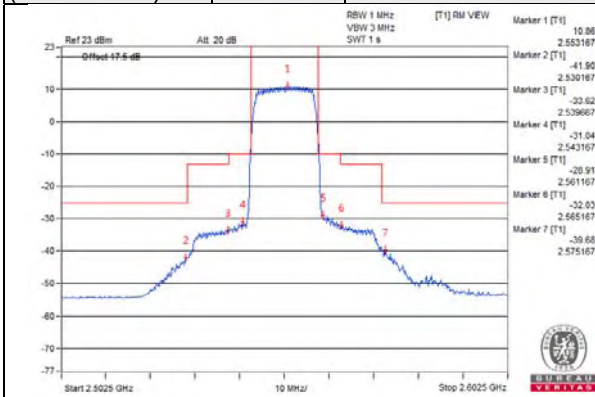
**QPSK**

**75 RB / 0 RB Offset**

**Channel 40530  
(2584.0MHz)**

**QPSK**

**75 RB / 0 RB Offset**



**Channel 40845  
(2615.5MHz)**

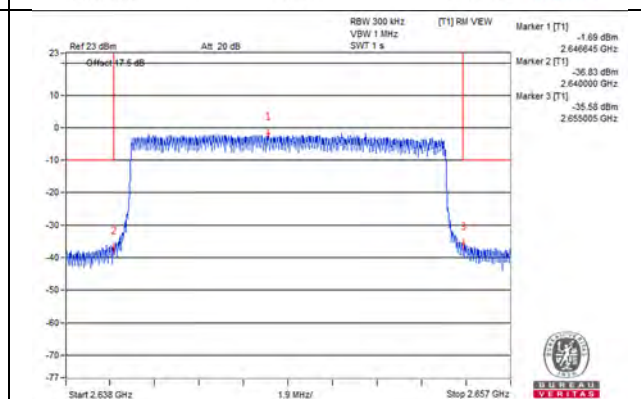
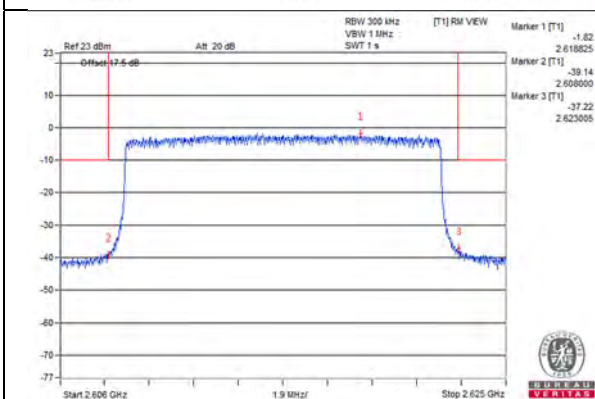
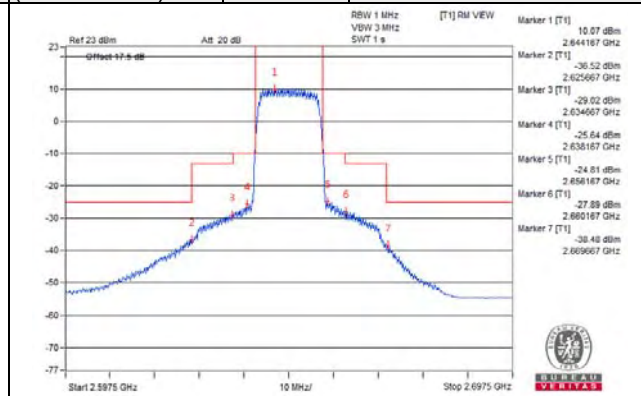
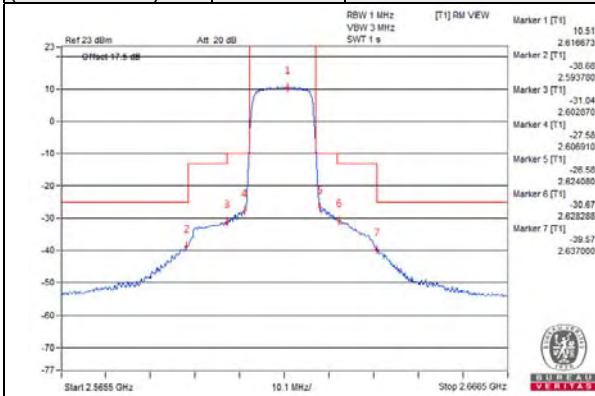
**QPSK**

**75 RB / 0 RB Offset**

**Channel 41165  
(2647.5MHz)**

**QPSK**

**75 RB / 0 RB Offset**



**Channel Bandwidth: 20MHz**

**Channel 40240  
(2555.0MHz)**

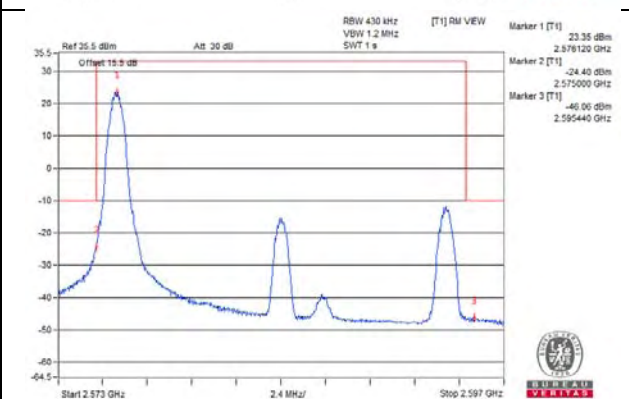
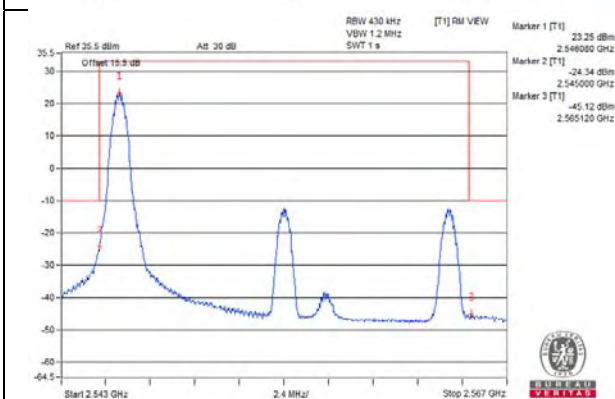
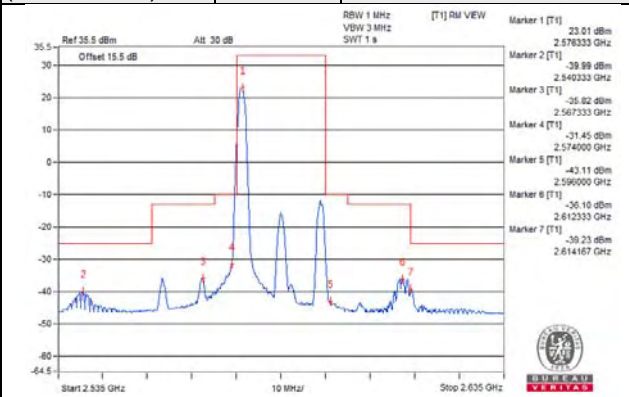
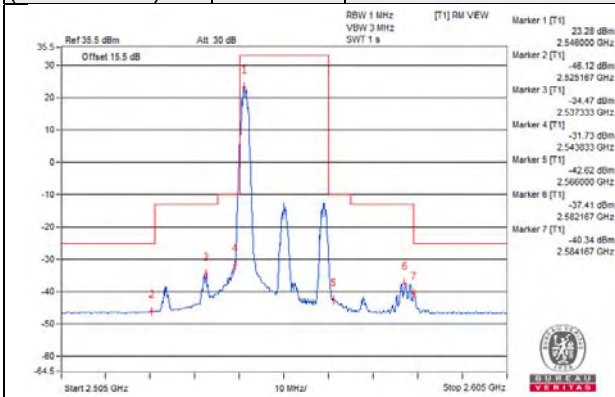
**QPSK**

**1 RB / 0 RB Offset**

**Channel 40540  
(2585.0MHz)**

**QPSK**

**1 RB / 0 RB Offset**



**Channel 40240  
(2555.0MHz)**

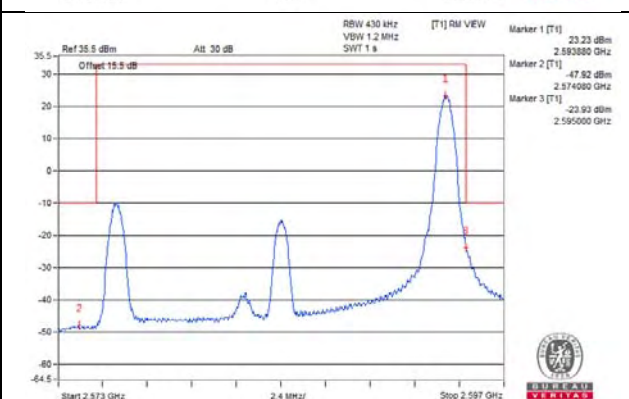
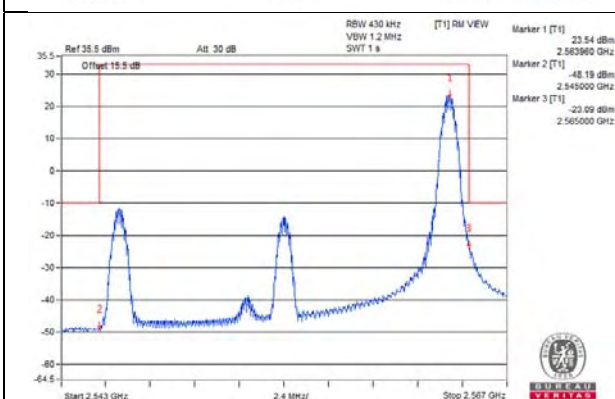
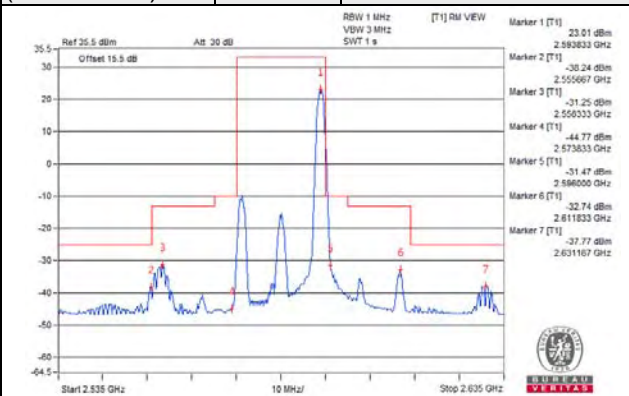
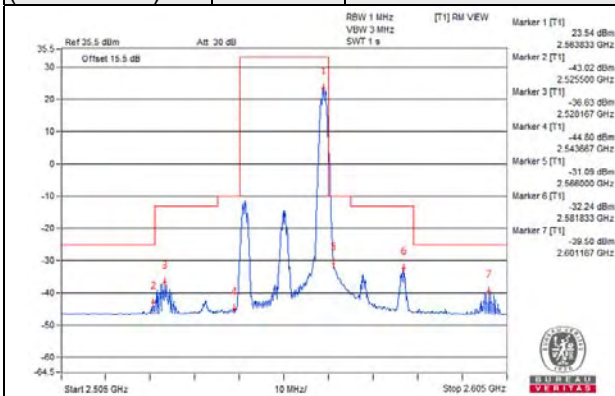
**QPSK**

**1 RB / 99 RB Offset**

**Channel 40540  
(2585.0MHz)**

**QPSK**

**1 RB / 99 RB Offset**





Channel Bandwidth: 20MHz

Channel 40840  
(2615.0MHz)

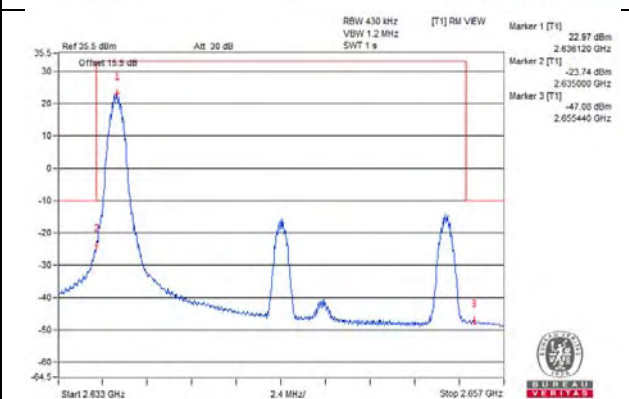
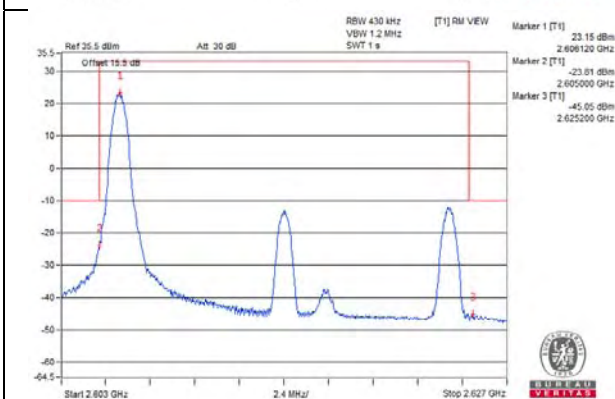
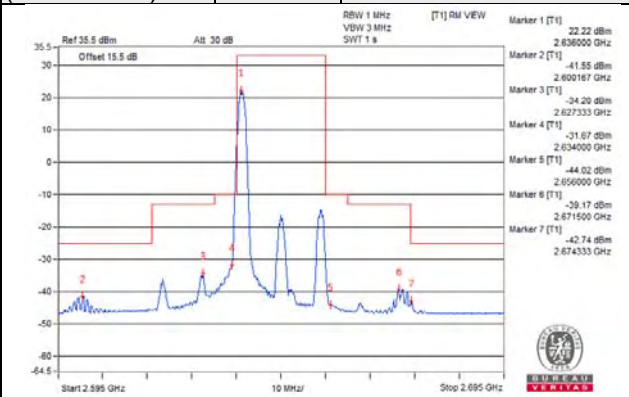
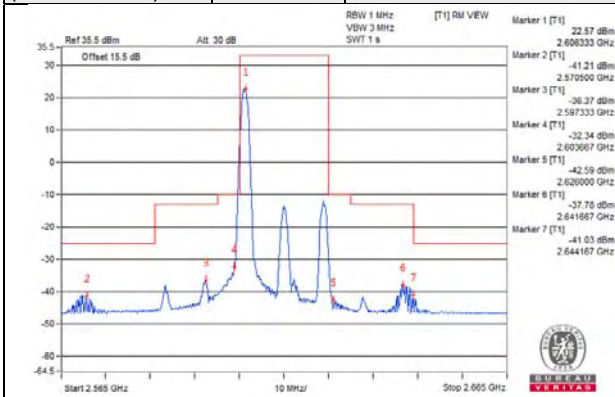
QPSK

1 RB / 0 RB Offset

Channel 41140  
(2645.0MHz)

QPSK

1 RB / 0 RB Offset



Channel 40840  
(2615.0MHz)

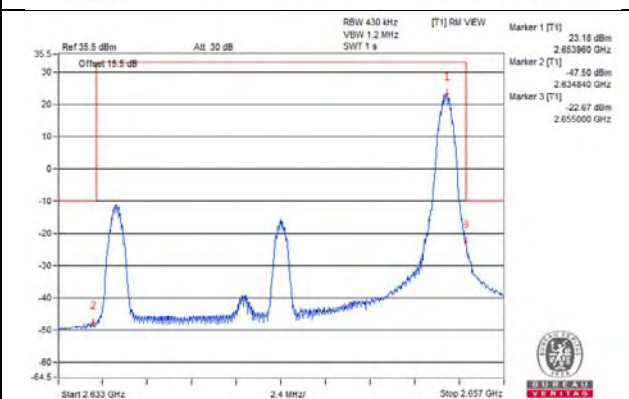
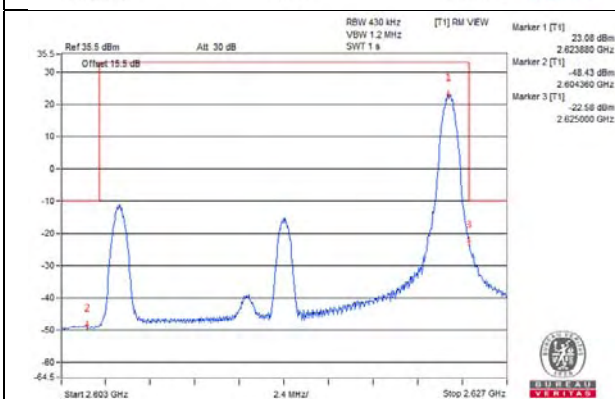
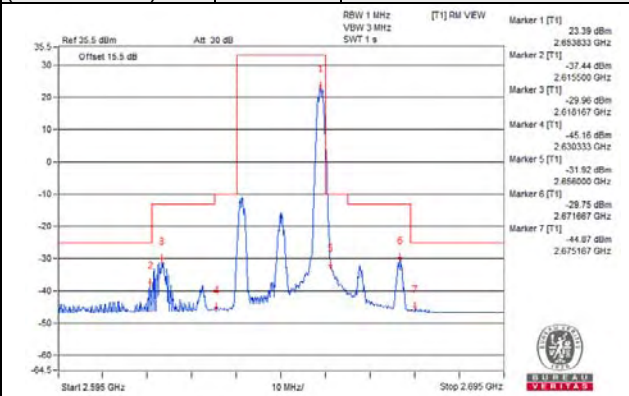
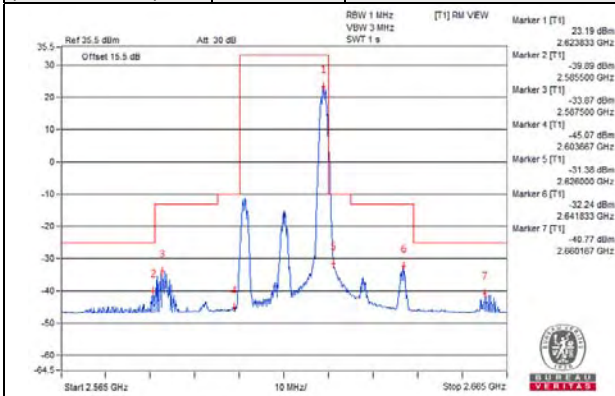
QPSK

1 RB / 99 RB Offset

Channel 41140  
(2645.0MHz)

QPSK

1 RB / 99 RB Offset



Channel Bandwidth: 20MHz

Channel 40240  
(2555.0MHz)

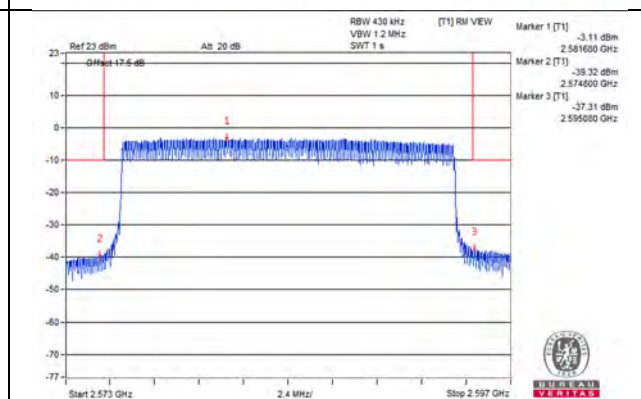
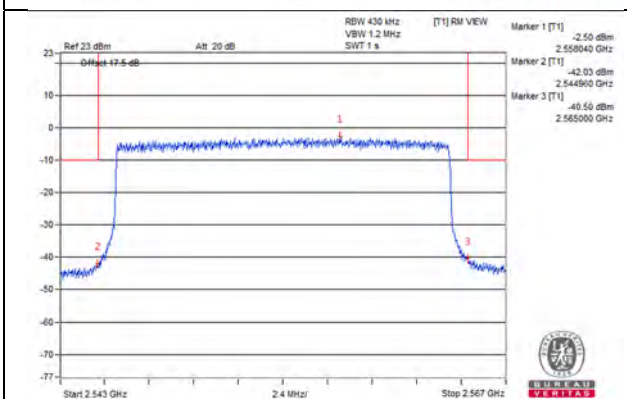
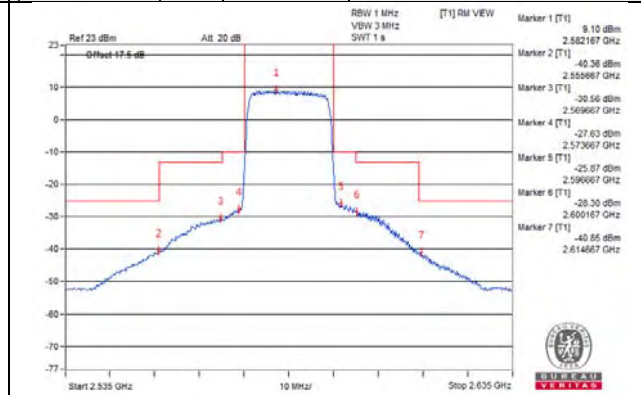
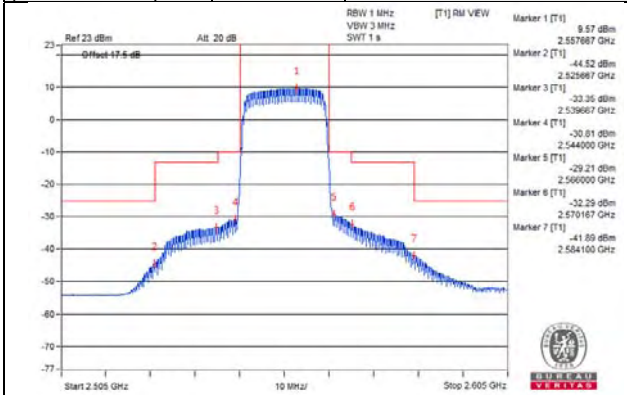
QPSK

100 RB / 0 RB Offset

Channel 40540  
(2585.0MHz)

QPSK

100 RB / 0 RB Offset



Channel 40840  
(2615.0MHz)

QPSK

100 RB / 0 RB Offset

Channel 41140  
(2645.0MHz)

QPSK

100 RB / 0 RB Offset

