

# FCC Test Report

## (PART 90S)

**Report No.:** RF170713C17-4

**FCC ID:** XHG-R910

**Test Model:** FRKR910KIT

**Received Date:** Jul. 13, 2017

**Test Date:** Jul. 27, 2017 ~ Aug. 04, 2017

**Issued Date:** Aug. 18, 2017

**Applicant:** Franklin Technology Inc.

**Address:** 906 JEI Platz, 186, Gasan digital 1-ro, Gumcheon-Gu, Seoul, 08502, South Korea

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

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

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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### Release Control Record

Issue No.	Description	Date Issued
RF170713C17-4	Original Release	Aug. 18, 2017

## 1 Certificate of Conformity

**Product:** Mobile Hotspot  
**Brand:** Franklin Wireless  
**Test Model:** FRKR910KIT  
**Sample Status:** Production Unit  
**Applicant:** Franklin Technology Inc.  
**Test Date:** Jul. 27, 2017 ~ Aug. 04, 2017  
**Standards:** FCC Part 90, Subpart S

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

**Prepared by :** Gina Liu , **Date:** Aug. 18, 2017  
Gina Liu / Specialist

**Approved by :** David Huang , **Date:** Aug. 18, 2017  
David Huang / Project Engineer

## 2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635 (b)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1055 90.213	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 90.209	Occupied Bandwidth (*)	Pass	Meet the requirement of limit.
2.1051 90.209	Emission Masks	Pass	Meet the requirement of limit.
2.1051 90.691	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 90.691	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.17 dB at 38.73 MHz.

### 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) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

## 2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Feb. 17, 2017	Feb. 16, 2018
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 16, 2016	Dec. 15, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 26, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2016	Dec. 13, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Dec. 26, 2016	Dec. 27, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 12, 2016	Dec. 13, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 184045	980116	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 330H	980112	Oct. 21, 2016	Oct. 20, 2017
Power Meter Anritsu	ML2495A	1232002	Sep. 08, 2016	Sep. 07, 2017
Power Sensor Anritsu	MA2411B	1207325	Sep. 08, 2016	Sep. 07, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 21, 2016	Oct. 20, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 21, 2016	Oct. 20, 2017
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 21, 2016	Oct. 20, 2017
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 02, 2016	Sep. 01, 2017
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018
Digital Multimeter Fluke	87-III	70360742	Jul. 30, 2017	Jul. 29, 2018

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HwaYa Chamber 10.
  3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
  4. The IC Site Registration No. is IC7450F-10.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	Mobile Hotspot	
<b>Brand</b>	Franklin Wireless	
<b>Test Model</b>	FRKR910KIT	
<b>Status of EUT</b>	Production Unit	
<b>Power Supply Rating</b>	3.8 Vdc (Battery) 5 Vdc (Adapter)	
<b>Modulation Type</b>	CDMA	QPSK, OQPSK, HPSK
	LTE	QPSK, 16QAM
<b>Frequency Range</b>	CDMA BC10	817.9 ~ 823.1 MHz
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	814.7 ~ 823.3 MHz
	LTE Band 26 (Channel Bandwidth: 3 MHz)	815.5 ~ 822.5 MHz
	LTE Band 26 (Channel Bandwidth: 5 MHz)	816.5 ~ 821.5 MHz
	LTE Band 26 (Channel Bandwidth: 10 MHz)	819 MHz
<b>Emission Designator</b>	CDMA BC10	1M28F9W
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 26 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 26 (Channel Bandwidth: 5 MHz)	4M50W7D
	LTE Band 26 (Channel Bandwidth: 10 MHz)	8M96W7D
<b>Max. ERP Power</b>	CDMA BC10	143.22 mW
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	81.66 mW
	LTE Band 26 (Channel Bandwidth: 3 MHz)	70.31 mW
	LTE Band 26 (Channel Bandwidth: 5 MHz)	74.13 mW
	LTE Band 26 (Channel Bandwidth: 10 MHz)	80.17 mW
<b>Antenna Type</b>	PCB Antenna	
<b>Accessory Device</b>	Refer to Note as below	
<b>Data Cable Supplied</b>	Refer to Note as below	

Note:

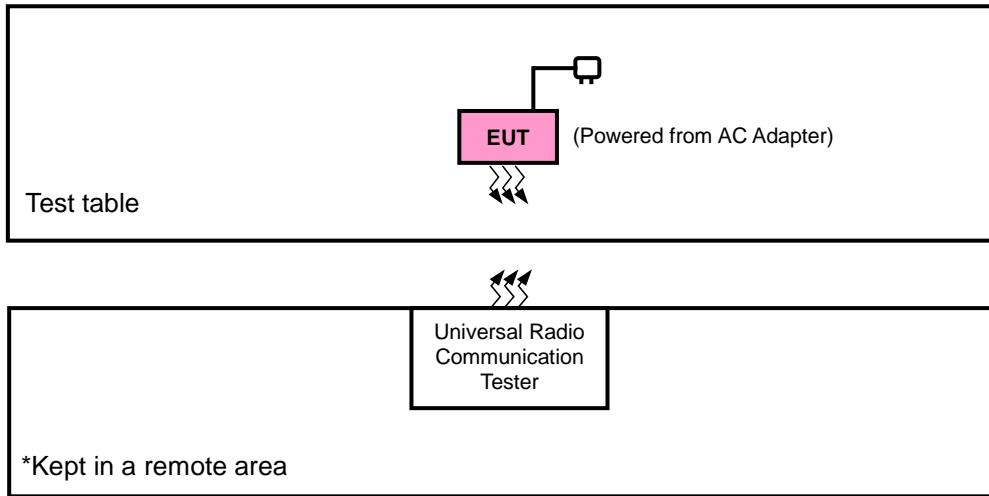
- The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	JIANGSU CHENYANG ELECTRON	CYSE12-050200U	I/P: 100-240 Vac, 50/60 Hz, 0.35 mA O/P: 5 Vdc, 2000 mA
Battery	BAK	R910	3.8 Vdc, 3000 mAh
Main Board	BOMIN	R910	--
BT/WLAN Module	Qualcomm Atheros	QCA-6174A-1	--

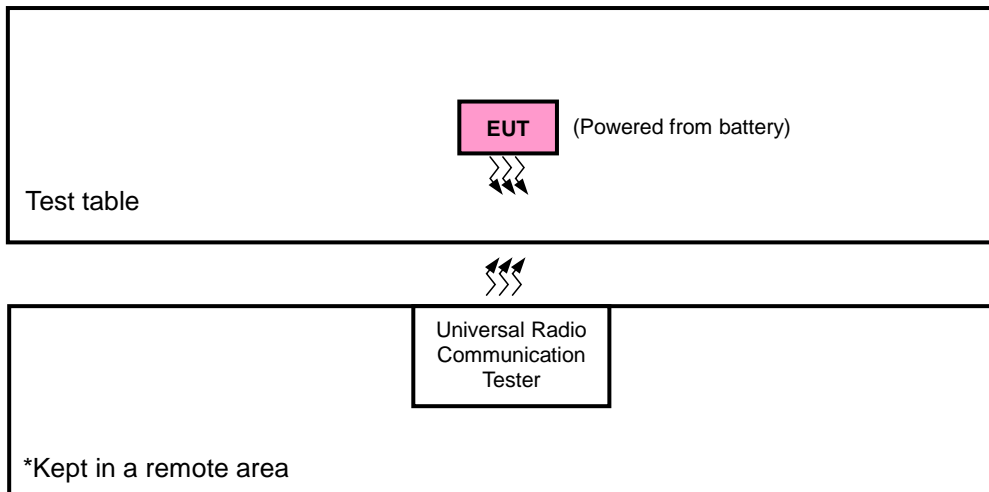
- The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 Configuration of System under Test

#### <Radiated Emission Test>



#### <E.R.P. 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.



### 3.3 Test Mode Applicability and Tested Channel Detail

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

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

Band	ERP	Radiated Emission
CDMA	X-plane	Z-axis
LTE Band 26	Y-plane	Y-axis

#### CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	476 to 684	476, 580, 684	1xRTT
-	Frequency Stability	476 to 684	476, 684	1xRTT
-	Occupied Bandwidth	476 to 684	476, 580, 684	1xRTT
-	Emission Mask	476 to 684	476, 580, 684	1xRTT
-	Conducted Emission	476 to 684	476, 580, 684	1xRTT
-	Radiated Emission	476 to 684	476, 580, 684	1xRTT

### LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM	1 RB / 49 RB Offset
-	Frequency Stability	26697 to 26783	26697, 26783	1.4 MHz	QPSK	1 RB / 2 RB Offset
		26705 to 26775	26705, 26775	3 MHz	QPSK	1 RB / 7 RB Offset
		26715 to 26765	26715, 26765	5 MHz	QPSK	1 RB / 12 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 49 RB Offset
-	Occupied Bandwidth	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Emission Mask	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Conducted Emission	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	26740	26740	10 MHz	QPSK	1 RB / 49 RB Offset

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

#### Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25 deg. C, 65 % RH	3.8 Vdc	Gavin Wu
Frequency Stability	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Occupied Bandwidth	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Band Edge	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Peak to Average Ratio	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Condcudeted Emission	25 deg. C, 65 % RH	3.8 Vdc	Carlos Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Gavin Wu

### **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 90**

**ANSI/TIA/EIA-603-D 2010**

**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 100 watts e.r.p.

#### 4.1.2 Test Procedures

##### **EIRP / ERP Measurement:**

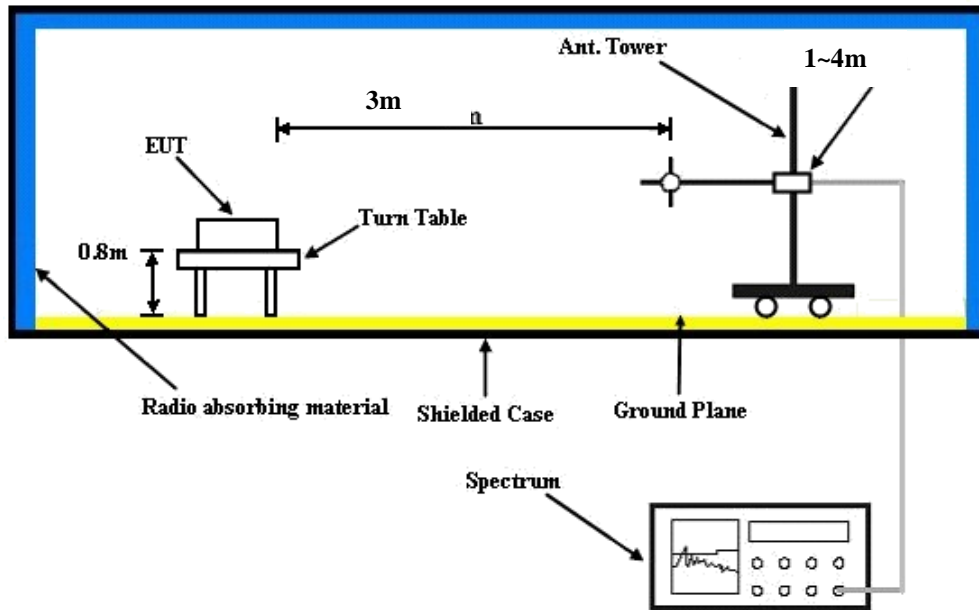
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5 MHz for CDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360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

##### **Conducted Power Measurement:**

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

### 4.1.3 Test Setup

#### EIRP / ERP Measurement:



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

#### Conducted Power Measurement:



4.1.4 Test Results

**Conducted Output Power (dBm)**

Band	CDMA		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
RC1+SO55	24.03	23.95	23.98
RC3+SO55	24.01	23.98	24.05
RC3+SO32(+ F-SCH)	24.04	24.07	24.09
RC3+SO32(+SCH)	24.06	24.04	24.1
RTAP 153.6	24.04	24.02	24.12
RETAP 4096	23.97	24.07	23.99

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26697	Mid Ch 26740	High Ch 26783		Low Ch 26697	Mid Ch 26740	High Ch 26783	
			814.7 MHz	819.0 MHz	823.3 MHz		814.7 MHz	819.0 MHz	823.3 MHz	
26 / 1.4M	1	0	21.7	21.7	21.8	0	20.9	20.8	21.1	1
	1	2	21.8	21.7	21.9	0	21.0	20.9	21.2	1
	1	5	21.7	21.7	22.0	0	20.9	20.9	21.1	1
	3	0	21.7	21.7	21.9	0	20.7	20.7	20.9	1
	3	1	21.7	21.7	22.0	0	20.8	20.7	20.9	1
	3	3	21.7	21.6	21.9	0	20.7	20.7	20.9	1
	6	0	20.7	20.7	21.0	1	19.8	19.8	20.0	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26705	Mid CH 26740	High CH 26775		Low Ch 26705	Mid CH 26740	High CH 26775	
			815.5 MHz	819.0 MHz	822.5 MHz		815.5 MHz	819.0 MHz	822.5 MHz	
26 / 3M	1	0	21.7	21.6	21.9	0	20.9	20.8	21.1	1
	1	7	21.9	21.8	22.0	0	21.0	20.9	21.2	1
	1	14	21.7	21.7	21.9	0	20.9	20.7	21.1	1
	8	0	20.8	20.7	20.9	1	19.9	19.7	20.0	2
	8	3	20.8	20.8	21.0	1	19.9	19.8	20.1	2
	8	7	20.8	20.7	21.0	1	19.9	19.7	20.1	2
	15	0	20.8	20.7	21.0	1	19.8	19.7	20.0	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26715	Mid Ch 26740	High Ch 26765		Low Ch 26715	Mid Ch 26740	High Ch 26765	
			816.5 MHz	819.0 MHz	821.5 MHz		816.5 MHz	819.0 MHz	821.5 MHz	
26 / 5M	1	0	21.8	21.6	21.8	0	20.9	20.9	21.1	1
	1	12	21.7	21.6	21.7	0	20.9	20.8	21.0	1
	1	24	21.7	21.7	21.8	0	20.9	20.9	21.1	1
	12	0	20.8	20.7	20.8	1	19.8	19.7	19.9	2
	12	6	20.9	20.7	20.9	1	19.9	19.7	19.9	2
	12	13	20.8	20.7	20.9	1	19.8	19.7	19.9	2
	25	0	20.7	20.7	20.8	1	19.8	19.6	19.9	2

Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)
			Mid Ch 26740		Mid Ch 26740	
			819.0 MHz		819.0 MHz	
26 / 10M	1	0	21.7	0	21.0	1
	1	24	21.7	0	21.0	1
	1	49	21.6	0	20.9	1
	25	0	20.8	1	19.8	2
	25	12	20.8	1	19.8	2
	25	25	20.8	1	19.8	2
	50	0	20.8	1	19.8	2

**ERP Power (dBm)**

CDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	476	817.9	-14.39	32.62	16.08	40.55	H
	580	820.5	-14.08	32.52	16.29	42.56	
	684	823.1	-14.47	32.65	16.03	40.09	
	476	817.9	-9.45	32.76	21.16	130.62	V
	580	820.5	-8.68	32.39	21.56	143.22	
	684	823.1	-9.11	32.54	21.28	134.28	

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26697	814.7	-11.39	32.02	18.48	70.47	H
	26740	819.0	-10.84	32.11	19.12	81.66	
	26783	823.3	-11.53	32.18	18.50	70.79	
	26697	814.7	-15.77	32.5	14.58	28.71	V
	26740	819.0	-14.92	32.51	15.44	34.99	
	26783	823.3	-15.56	32.47	14.76	29.92	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	26697	814.7	-12.29	32.02	17.58	57.28	H
	26740	819.0	-11.74	32.11	18.22	66.37	
	26783	823.3	-12.43	32.18	17.60	57.54	
	26697	814.7	-16.67	32.5	13.68	23.33	V
	26740	819.0	-15.82	32.51	14.54	28.44	
	26783	823.3	-16.46	32.47	13.86	24.32	



LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26705	815.5	-11.89	32.02	17.98	62.81	H
	26740	819.0	-11.49	32.11	18.47	70.31	
	26775	822.5	-11.67	32.18	18.36	68.55	
	26705	815.5	-15.92	32.5	14.43	27.73	V
	26740	819.0	-15.36	32.51	15.00	31.62	
	26775	822.5	-15.74	32.47	14.58	28.71	
Channel Bandwidth: 3 MHz / 16QAM							
Y	26705	815.5	-12.80	32.02	17.07	50.93	H
	26740	819.0	-12.40	32.11	17.56	57.02	
	26775	822.5	-12.58	32.18	17.45	55.59	
	26705	815.5	-16.83	32.5	13.52	22.49	V
	26740	819.0	-16.27	32.51	14.09	25.64	
	26775	822.5	-16.65	32.47	13.67	23.28	

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26715	816.5	-11.79	32.04	18.10	64.57	H
	26740	819.0	-11.26	32.11	18.70	74.13	
	26765	821.5	-11.47	31.79	18.17	65.61	
	26715	816.5	-15.75	32.52	14.62	28.97	V
	26740	819.0	-15.29	32.51	15.07	32.14	
	26765	821.5	-15.47	32.17	14.55	28.51	
Channel Bandwidth: 5 MHz / 16QAM							
Y	26715	816.5	-12.69	32.04	17.20	52.48	H
	26740	819.0	-12.16	32.11	17.80	60.26	
	26765	821.5	-12.37	31.79	17.27	53.33	
	26715	816.5	-16.65	32.52	13.72	23.55	V
	26740	819.0	-16.19	32.51	14.17	26.12	
	26765	821.5	-16.37	32.17	13.65	23.17	

**LTE Band 26**

**Channel Bandwidth: 10 MHz / QPSK**

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
Y	26740	819.0	-10.92	32.11	19.04	80.17	H
	26740	819.0	-14.92	32.51	15.44	34.99	V

**Channel Bandwidth: 10 MHz / 16QAM**

Y	26740	819.0	-11.82	32.11	18.14	65.16	H
	26740	819.0	-15.82	32.51	14.54	28.44	V

## 4.2 Frequency Stability Measurement

### 4.2.1 Limits of Frequency Stability Measurement

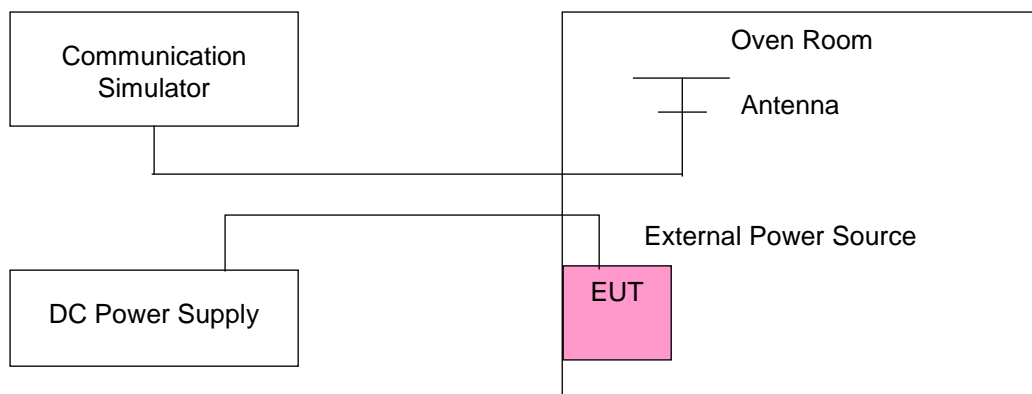
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 4.2.2 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  $\pm 0.5$  °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.

### 4.2.3 Test Setup



#### 4.2.4 Test Results

##### Frequency Error vs. Voltage

Voltage (Volts)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	817.900002	0.002	822.750003	0.004	2.5
3.6	817.900004	0.005	822.750003	0.003	2.5
4.35	817.900004	0.005	822.750001	0.002	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

##### Frequency Error vs. Temperature

Temp. (°C)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	817.900004	0.005	822.750004	0.004	2.5
-20	817.900003	0.004	822.750002	0.003	2.5
-10	817.900004	0.005	822.750002	0.002	2.5
0	817.900002	0.002	822.750003	0.003	2.5
10	817.900001	0.002	822.750003	0.004	2.5
20	817.899996	-0.004	822.749998	-0.003	2.5
30	817.899997	-0.004	822.749998	-0.003	2.5
40	817.899996	-0.005	822.749997	-0.004	2.5
50	817.899996	-0.005	822.749999	-0.001	2.5
60	817.899997	-0.003	822.749998	-0.002	2.5

## Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	814.700004	0.004	823.300001	0.001	2.5
3.6	814.700002	0.002	823.300004	0.004	2.5
4.35	814.700001	0.001	823.300001	0.001	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

## Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	814.700002	0.002	823.300002	0.002	2.5
-20	814.700002	0.002	823.300001	0.002	2.5
-10	814.700002	0.003	823.300003	0.004	2.5
0	814.700003	0.004	823.300001	0.002	2.5
10	814.700002	0.003	823.300002	0.003	2.5
20	814.699997	-0.003	823.299997	-0.004	2.5
30	814.699999	-0.001	823.299996	-0.005	2.5
40	814.699997	-0.004	823.299997	-0.004	2.5
50	814.699997	-0.003	823.299999	-0.001	2.5
60	814.699996	-0.004	823.299997	-0.003	2.5

## Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	815.500004	0.005	822.500002	0.002	2.5
3.6	815.500001	0.001	822.500002	0.002	2.5
4.35	815.500003	0.003	822.500004	0.005	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

## Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	815.500004	0.005	822.500003	0.004	2.5
-20	815.500003	0.003	822.500003	0.003	2.5
-10	815.500003	0.003	822.500004	0.005	2.5
0	815.500001	0.001	822.500003	0.004	2.5
10	815.500003	0.004	822.500001	0.001	2.5
20	815.499997	-0.004	822.499998	-0.002	2.5
30	815.499998	-0.002	822.499999	-0.001	2.5
40	815.499998	-0.002	822.499998	-0.002	2.5
50	815.499998	-0.002	822.499999	-0.001	2.5
60	815.499997	-0.004	822.499997	-0.004	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	816.500002	0.002	821.500003	0.004	2.5
3.6	816.500003	0.004	821.500002	0.003	2.5
4.35	816.500002	0.002	821.500003	0.004	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	816.500002	0.002	821.500004	0.005	2.5
-20	816.500001	0.002	821.500003	0.004	2.5
-10	816.500001	0.001	821.500002	0.002	2.5
0	816.500003	0.004	821.500001	0.001	2.5
10	816.500001	0.001	821.500002	0.003	2.5
20	816.499999	-0.001	821.499996	-0.005	2.5
30	816.499996	-0.004	821.499999	-0.001	2.5
40	816.499996	-0.005	821.499999	-0.002	2.5
50	816.499998	-0.002	821.499997	-0.003	2.5
60	816.499998	-0.002	821.499999	-0.001	2.5

## Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
3.8	819.000004	0.004	2.5
3.6	819.000002	0.003	2.5
4.35	819.000003	0.004	2.5

**Note:** The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

## Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
-30	819.000004	0.005	2.5
-20	819.000003	0.003	2.5
-10	819.000003	0.003	2.5
0	819.000002	0.003	2.5
10	819.000002	0.002	2.5
20	818.999999	-0.002	2.5
30	818.999997	-0.004	2.5
40	818.999999	-0.002	2.5
50	818.999996	-0.005	2.5
60	818.999999	-0.001	2.5

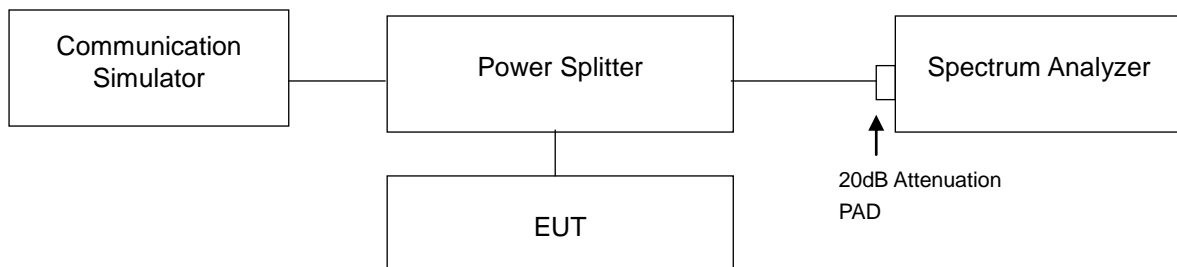


### 4.3 Occupied Bandwidth Measurement

#### 4.3.1 Test Procedure

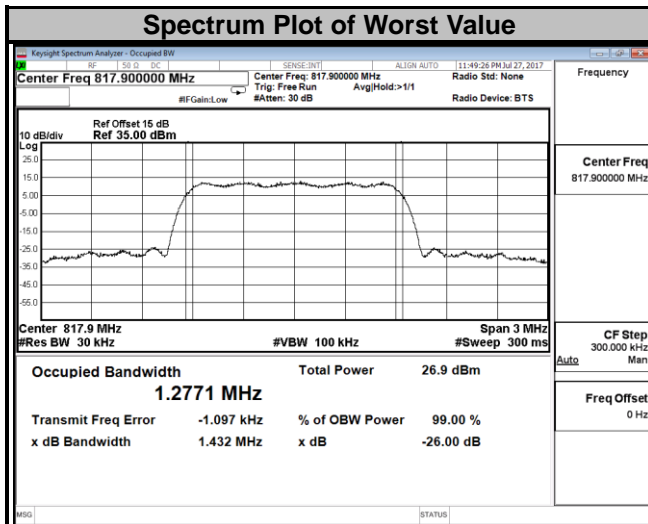
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 4.3.2 Test Setup



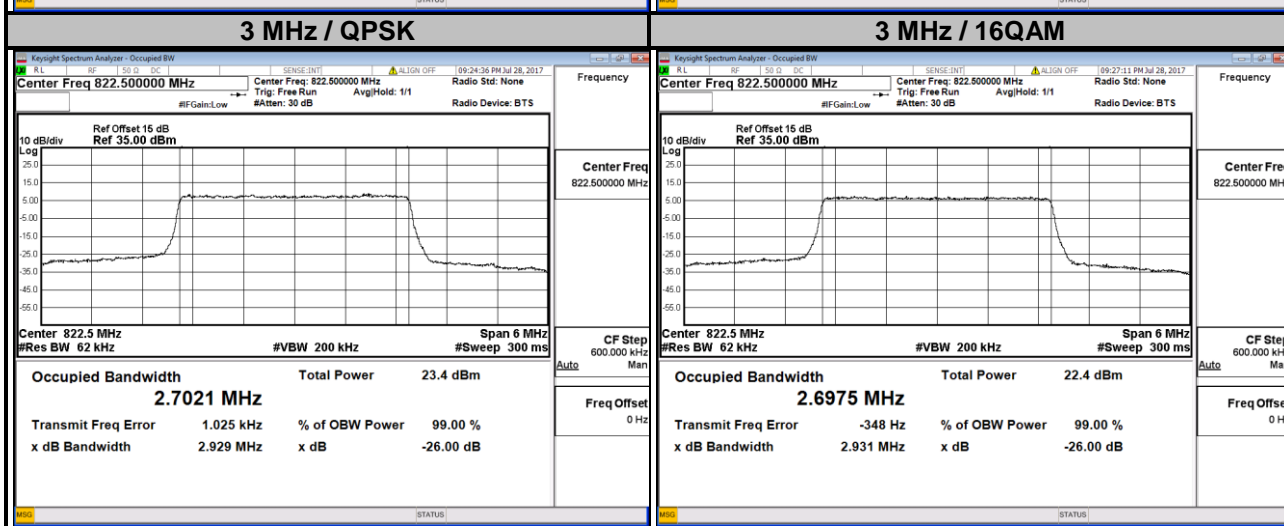
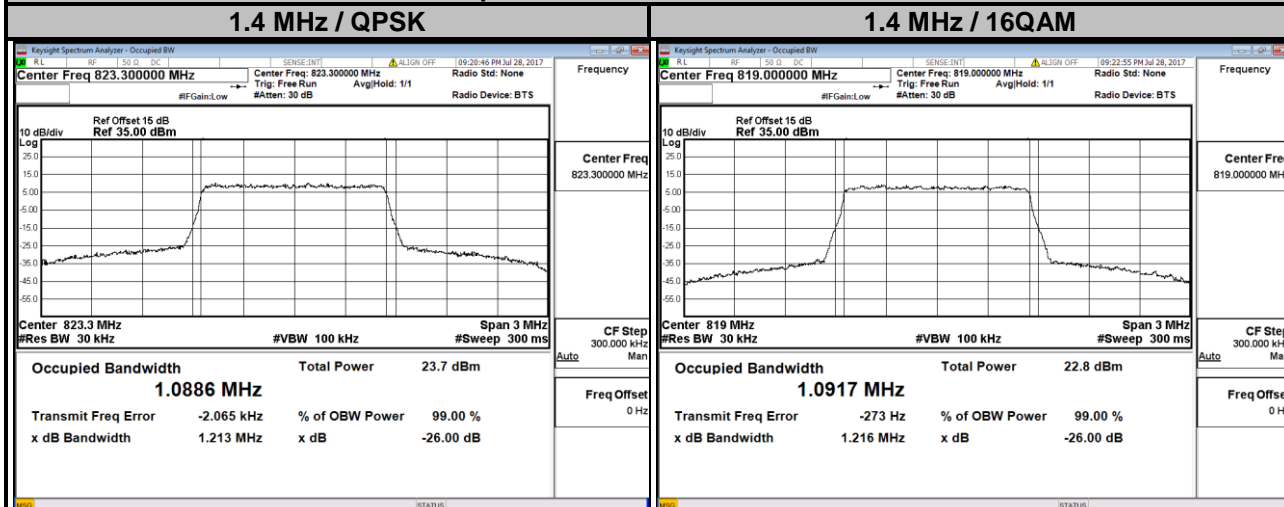
### 4.3.3 Test Result

CDMA		
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
476	817.9	1.28
580	820.5	1.27
684	823.1	1.27



LTE Band 26							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26697	814.7	1.09	1.09	26705	815.5	2.70	2.69
26740	819.0	1.09	1.09	26740	819.0	2.70	2.70
26783	823.3	1.09	1.09	26775	822.5	2.70	2.70

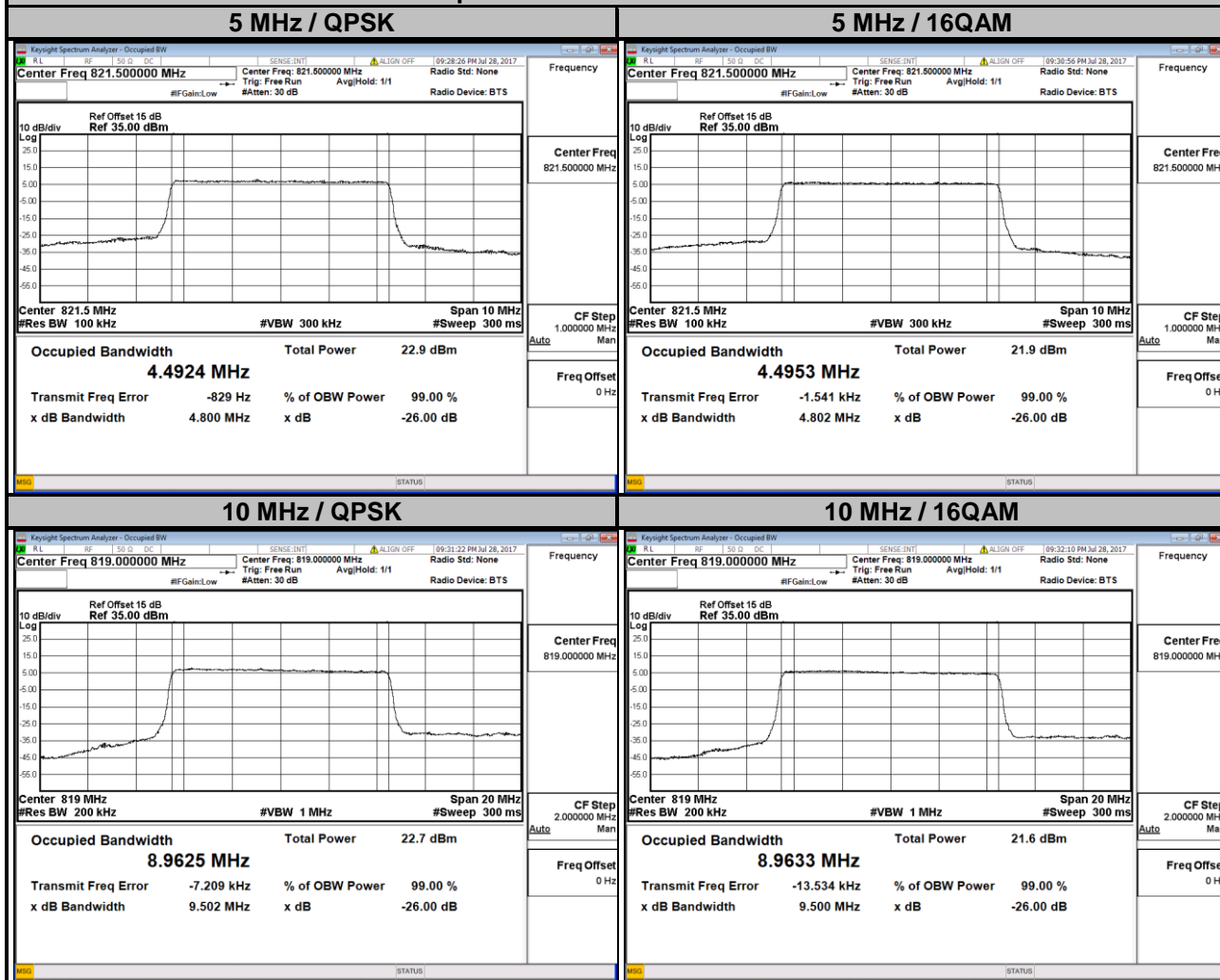
### Spectrum Plot of Worst Value



### LTE Band 26

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26715	816.5	4.48	4.48	26740	819.0	8.96	8.96
26740	819.0	4.49	4.49				
26765	821.5	4.49	4.50				

### Spectrum Plot of Worst Value

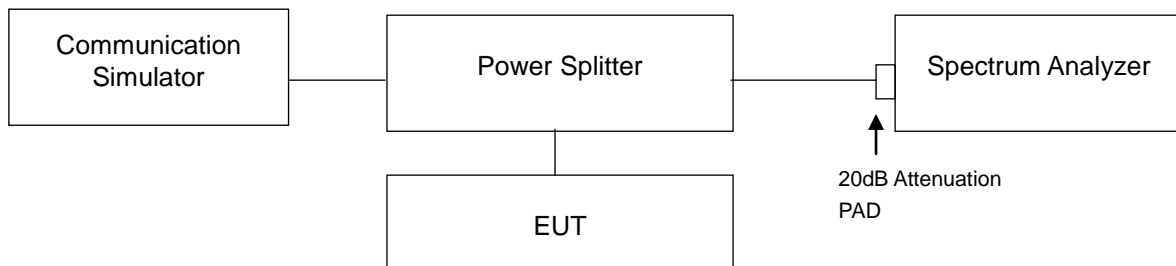


#### 4.4 Emission Mask Measurement

##### 4.4.1 Limits of Band Edge Measurement

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50+10\text{Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

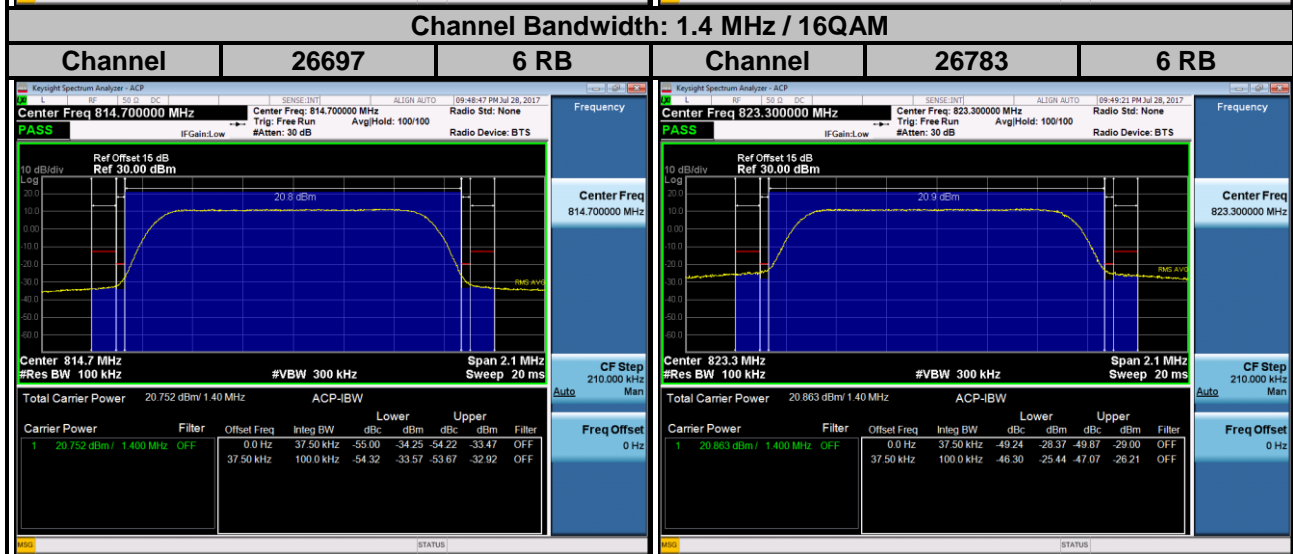
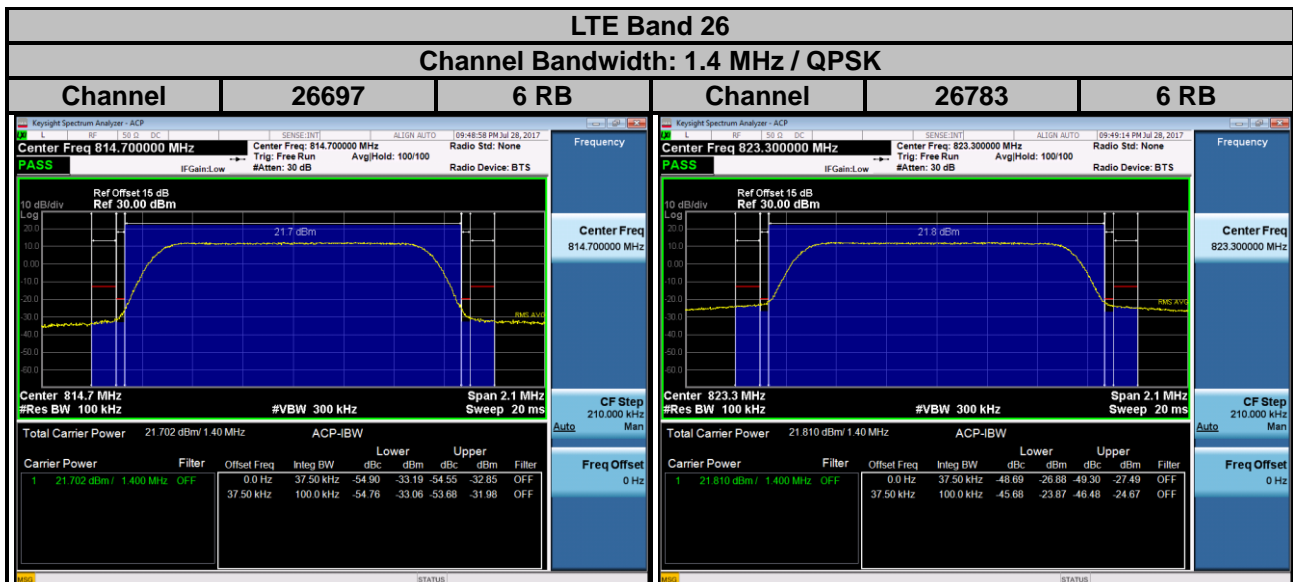
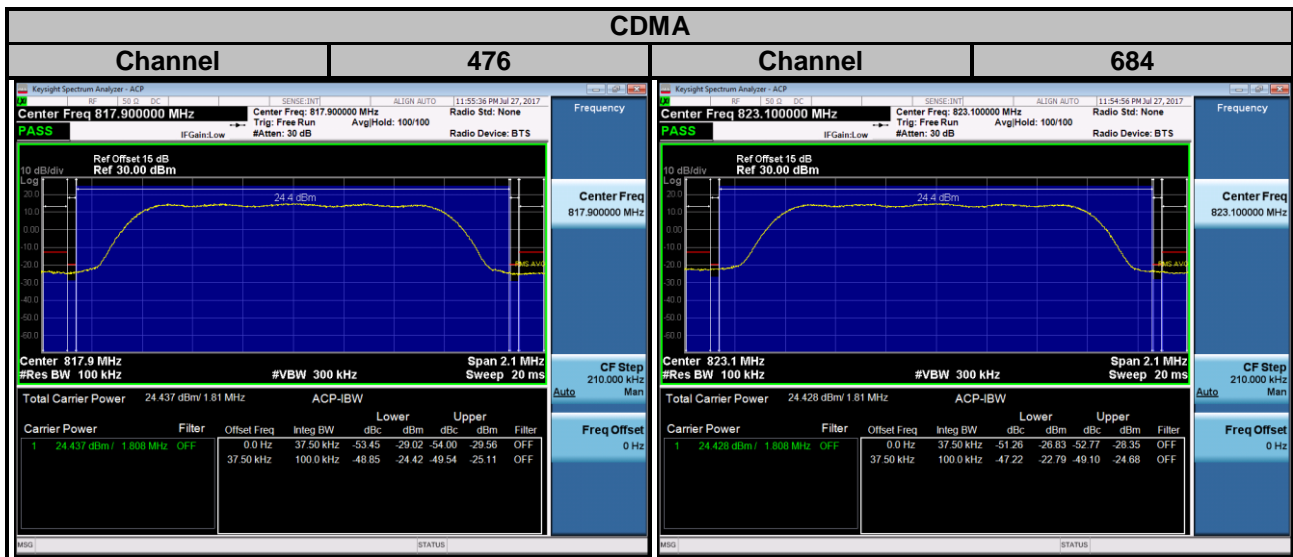
##### 4.4.2 Test Setup



##### 4.4.3 Test Procedures

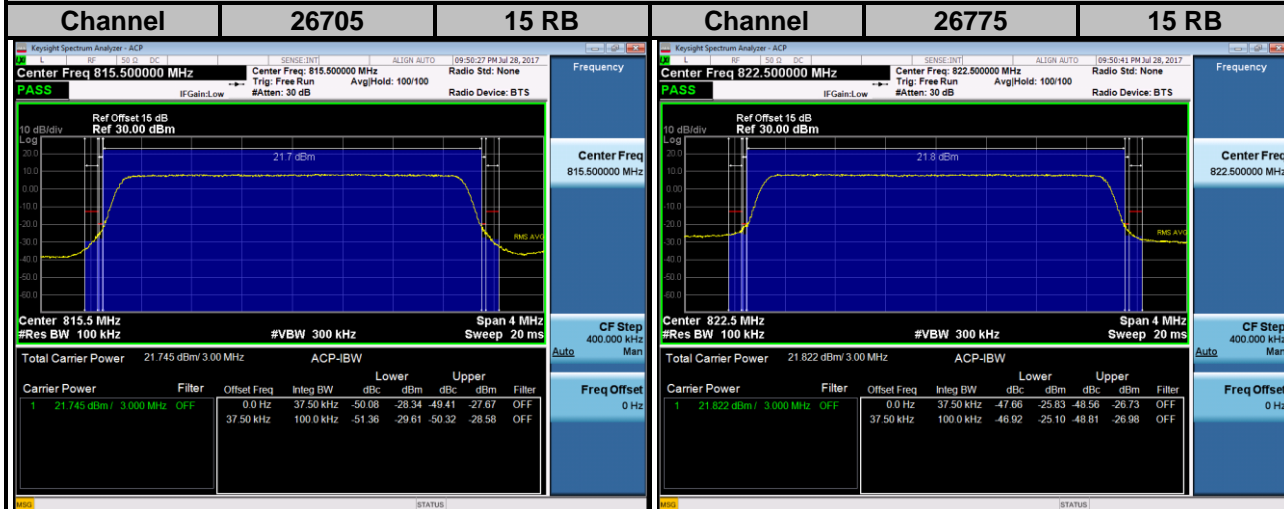
- a. The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Record the test plot.

### 4.4.4 Test Results



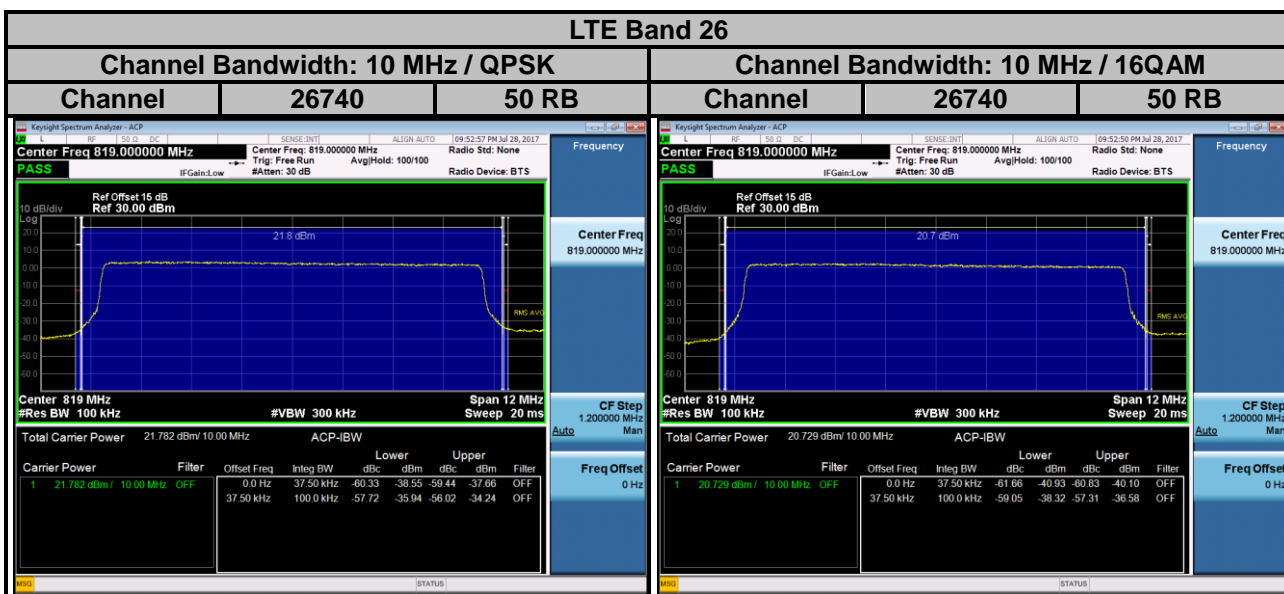
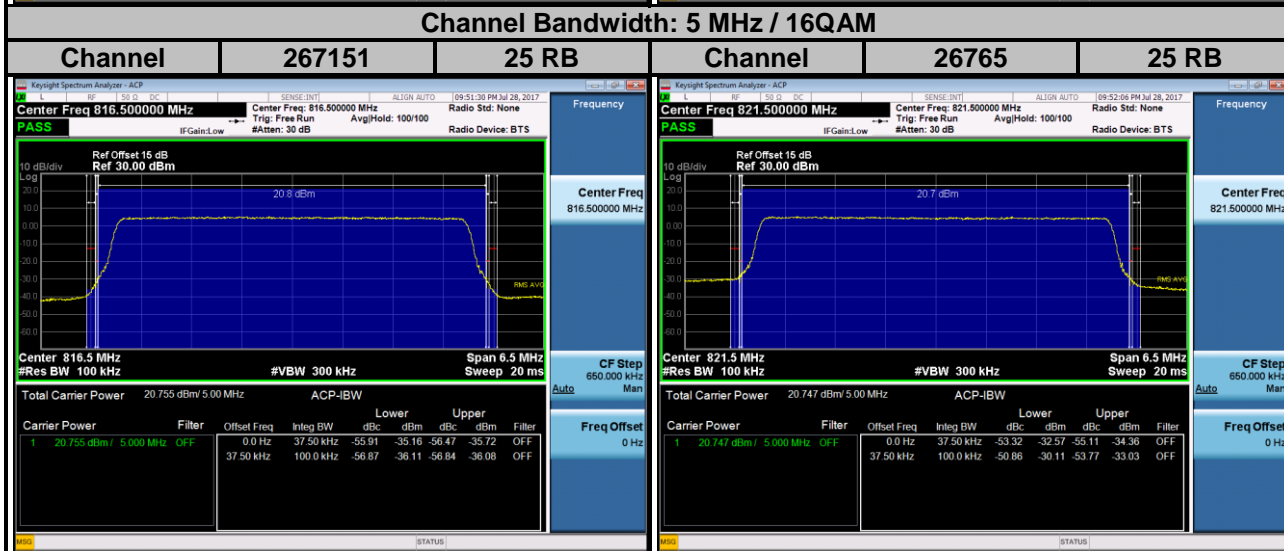
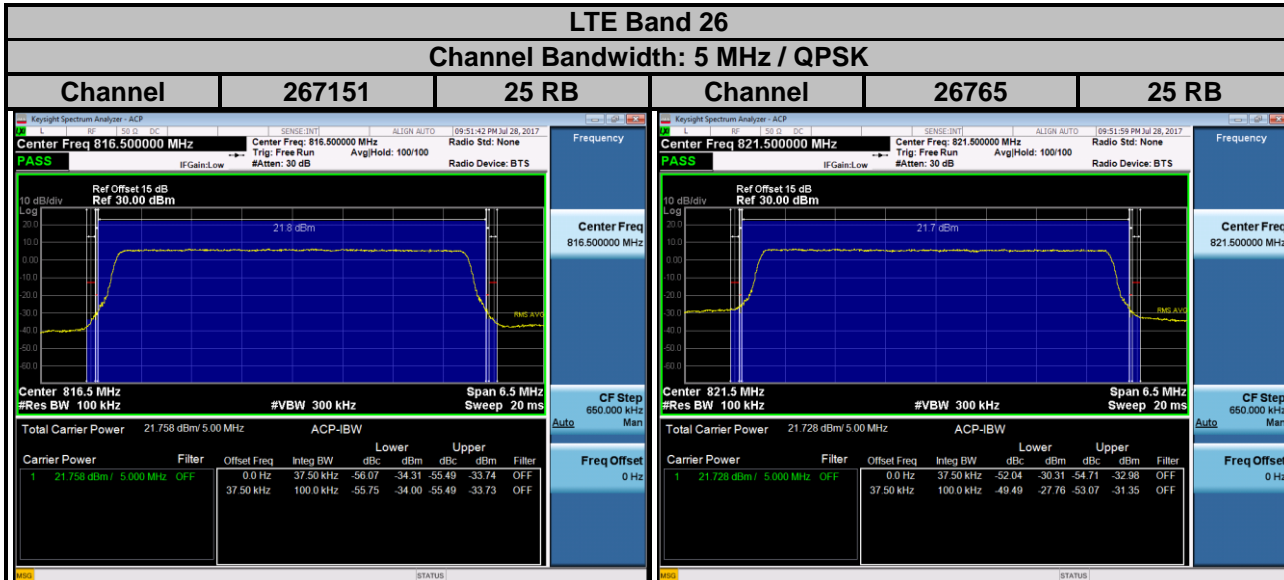
## LTE Band 26

### Channel Bandwidth: 3 MHz / QPSK



### Channel Bandwidth: 3 MHz / 16QAM





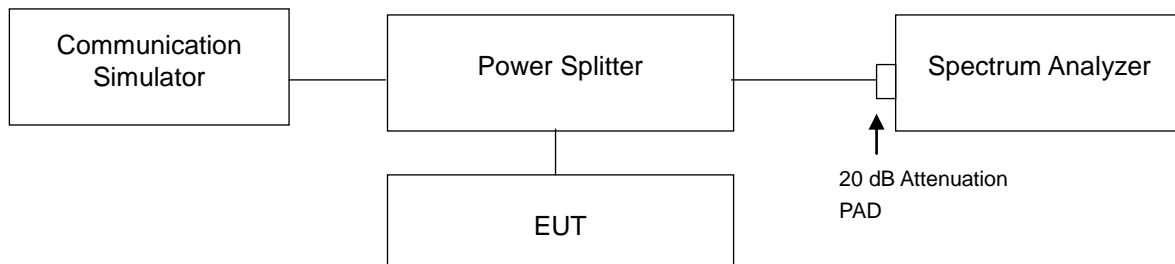


## 4.5 Conducted Spurious Emissions

### 4.5.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -13 dBm.

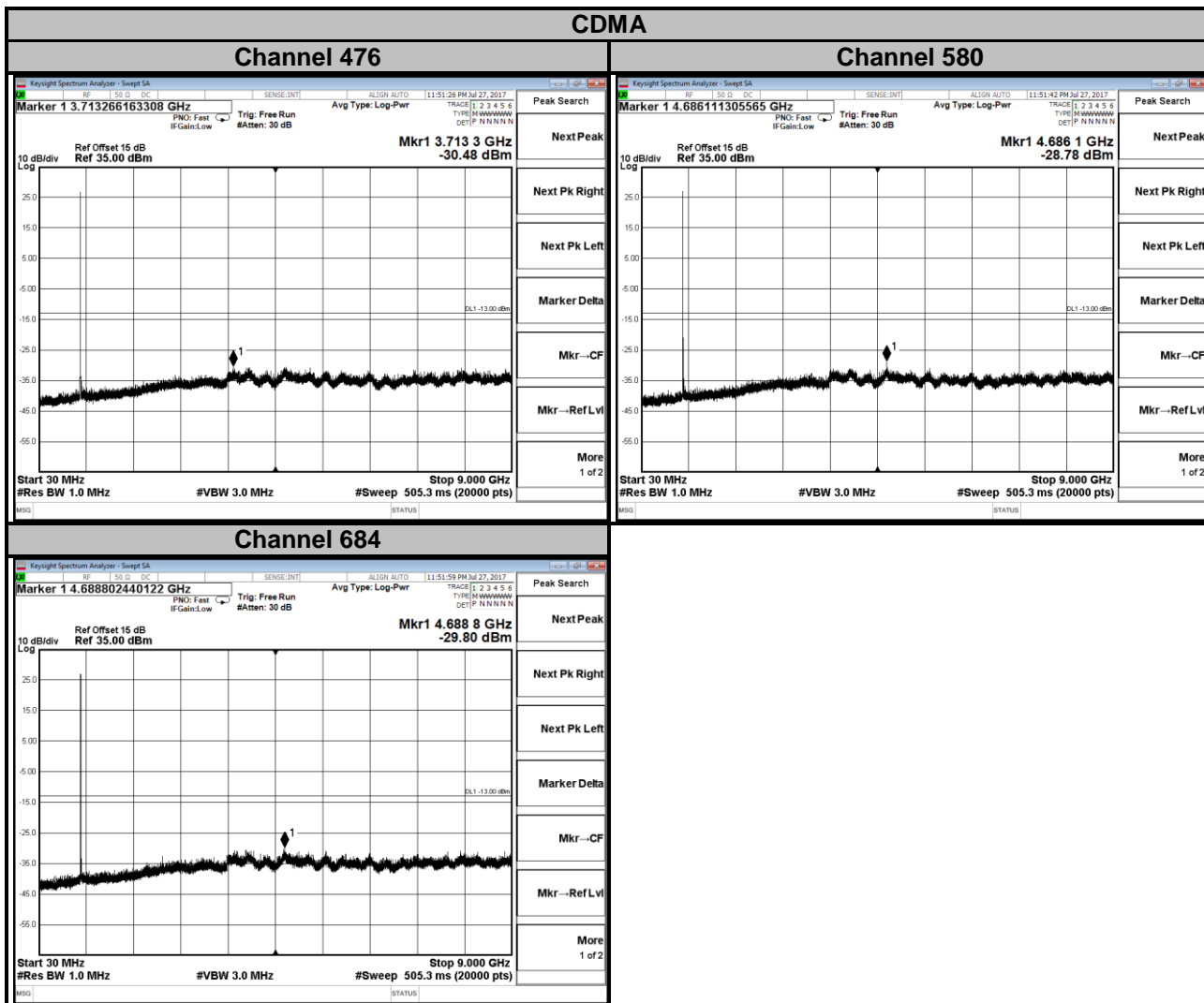
### 4.5.2 Test Setup



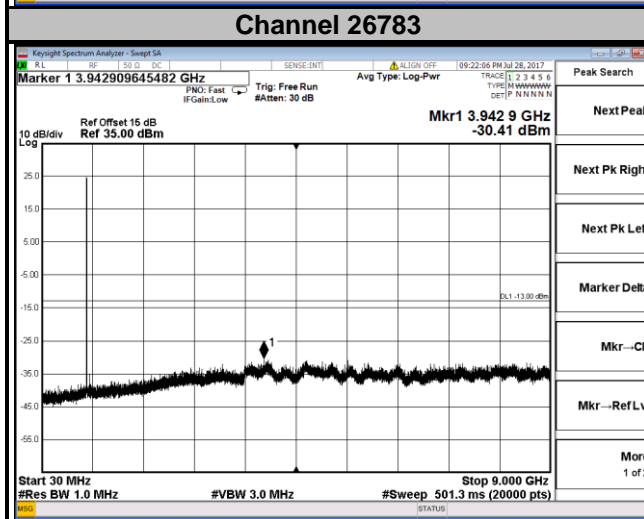
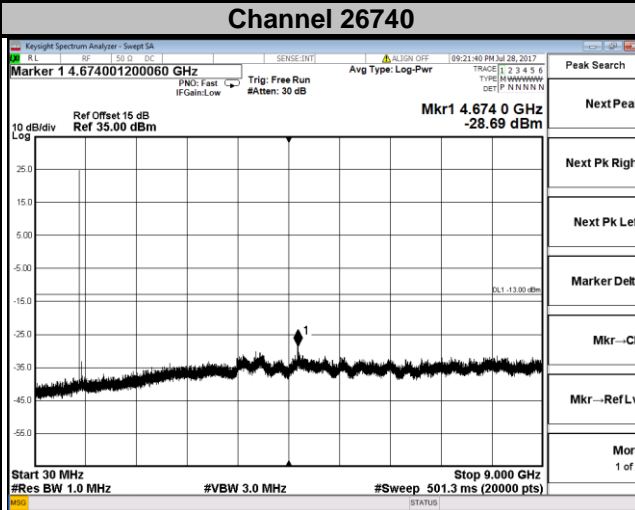
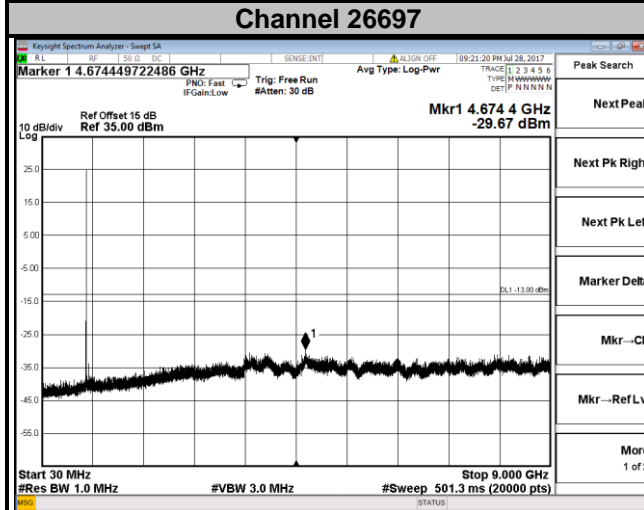
### 4.5.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 9 GHz. 10 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz are used for conducted emission measurement.

### 4.5.4 Test Results



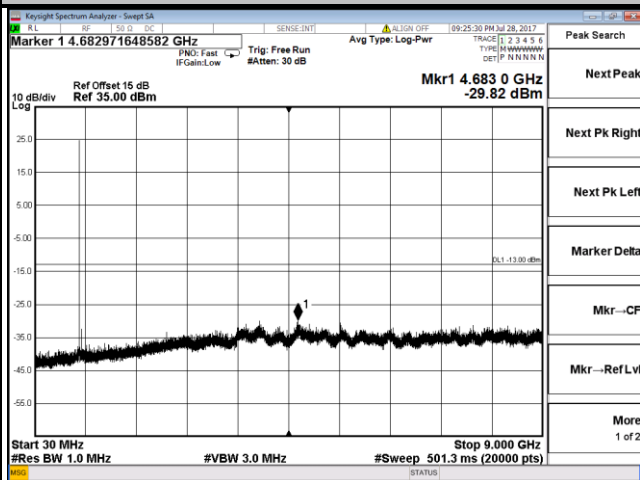
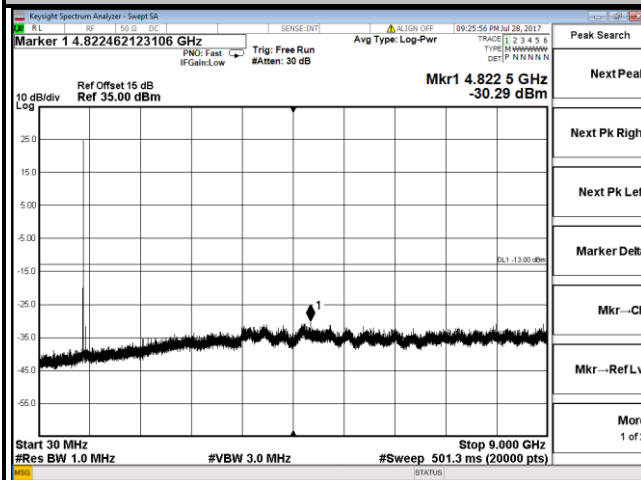
**LTE Band 26**  
**Channel Bandwidth: 1.4 MHz**



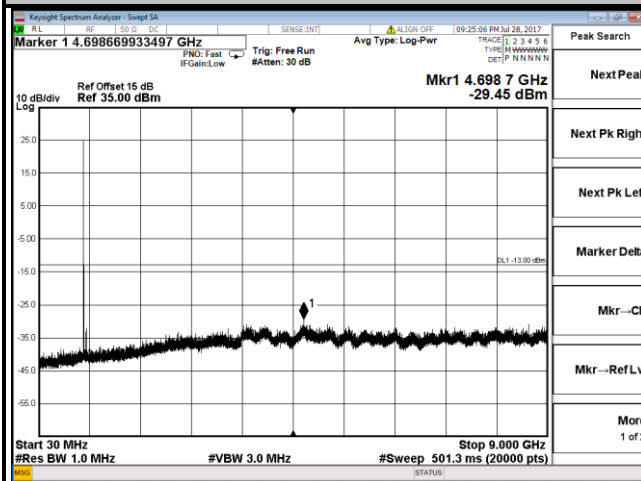
**LTE Band 26**  
**Channel Bandwidth: 3 MHz**

**Channel 26705**

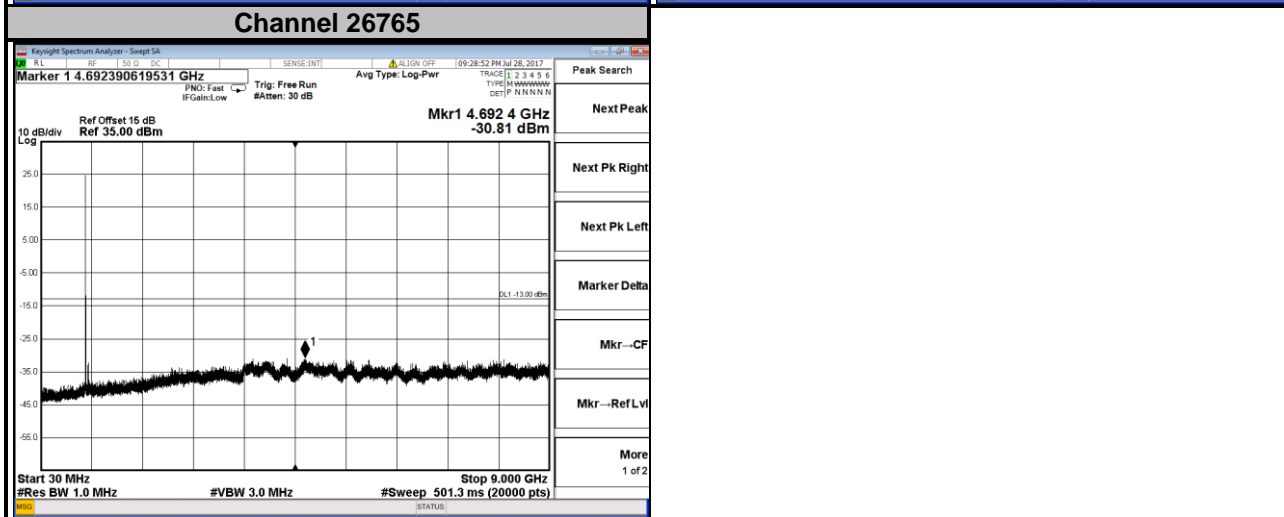
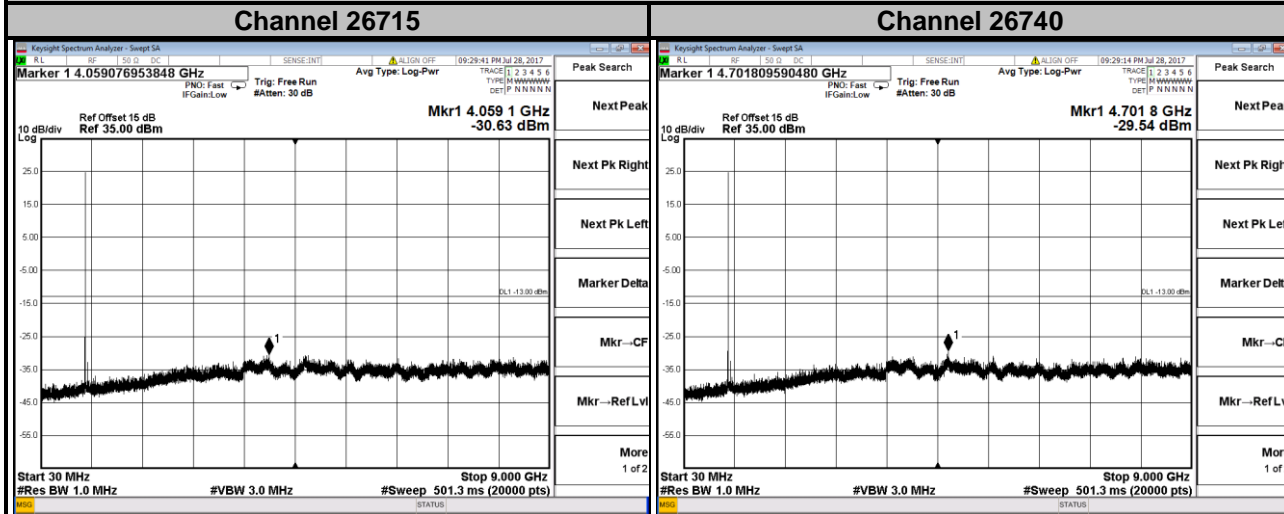
**Channel 26740**



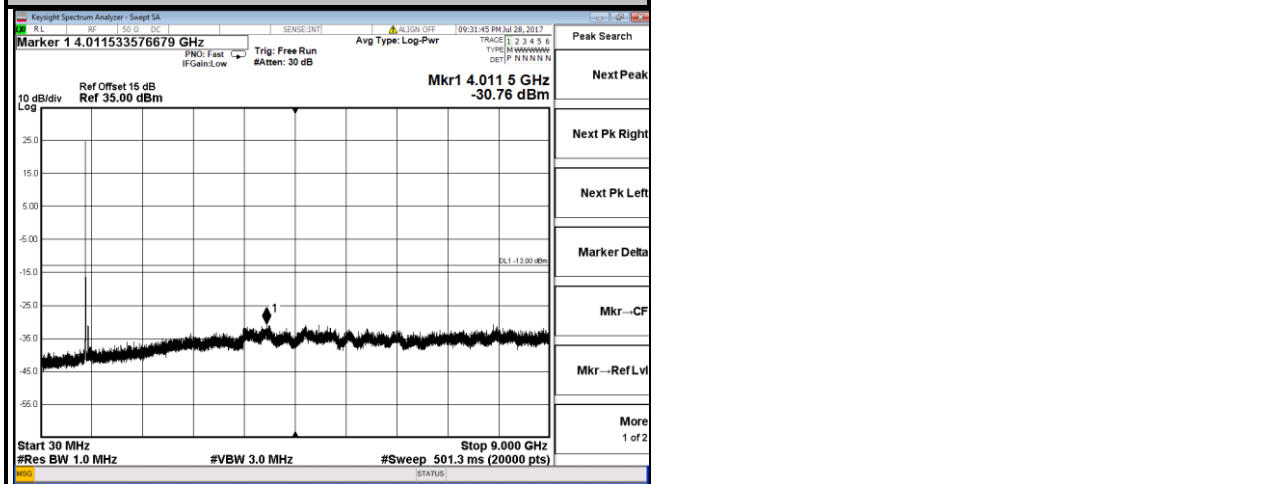
**Channel 26775**



**LTE Band 26**  
**Channel Bandwidth: 5 MHz**



**LTE Band 26**  
**Channel Bandwidth: 10 MHz**  
**Channel 26740**



## 4.6 Radiated Emission Measurement

### 4.6.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission is equal to -13 dBm.

### 4.6.2 Test Procedure

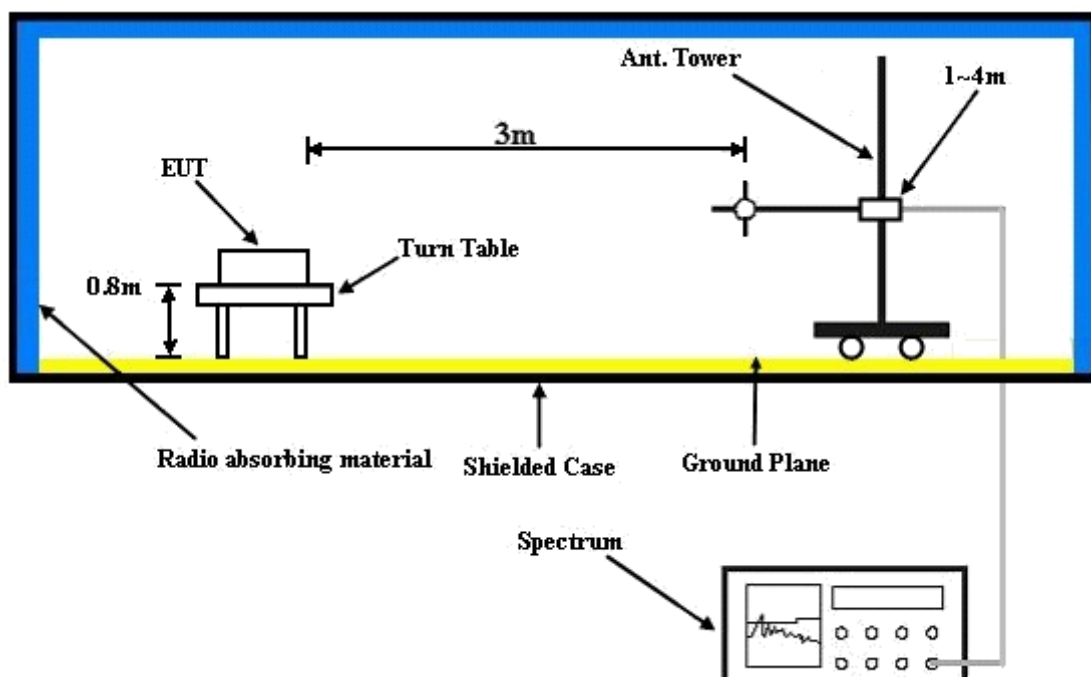
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

### 4.6.3 Deviation from Test Standard

No deviation.

### 4.6.4 Test Setup



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

4.6.5 Test Results

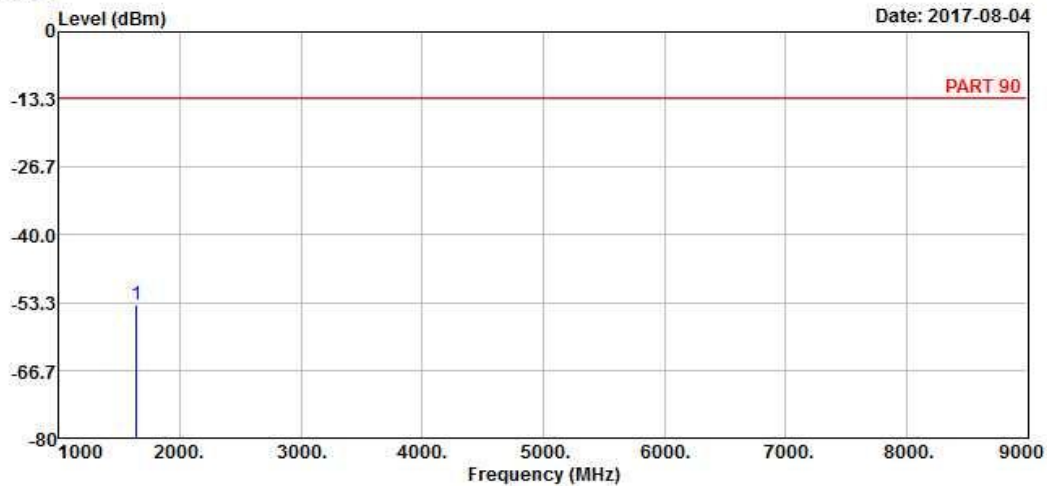
CDMA:  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART 90 HORIZONTAL  
Remak : CDMA BC10\_L-CH  
Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1635.80	-53.83	-39.04	-13.00	-40.83	-14.79	Peak

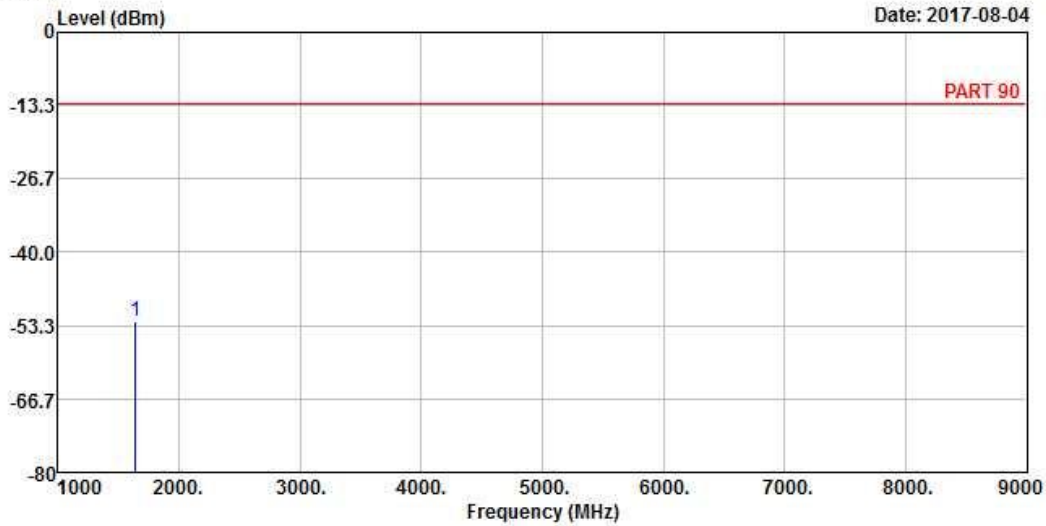


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : CDMA BC10\_L-CH  
 Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1635.80	-52.45	-37.66	-13.00	-39.45	-14.79	Peak



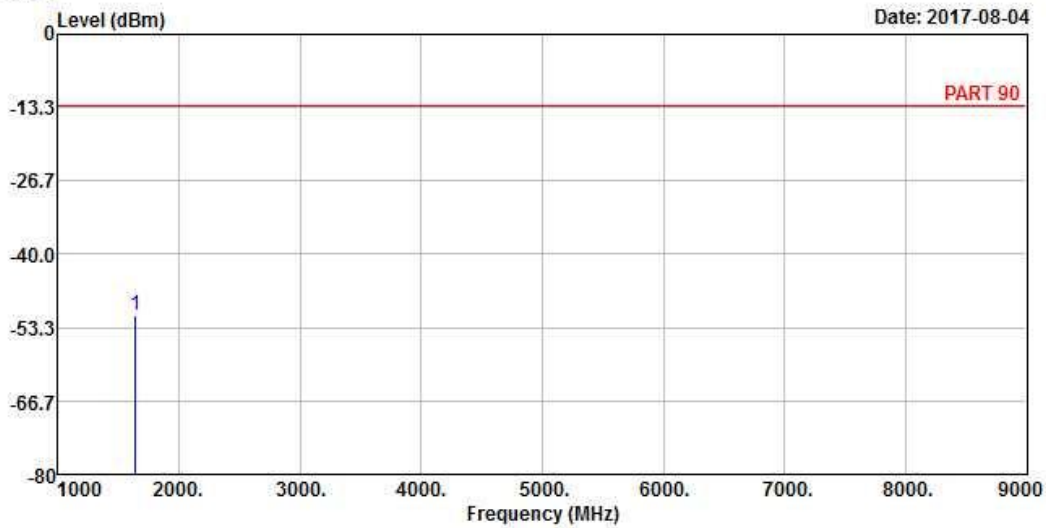
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : CDMA BC10\_M-CH  
 Tested by: Gavin Wu

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1641.00	-50.94	-36.21	-13.00	-37.94	-14.73	Peak

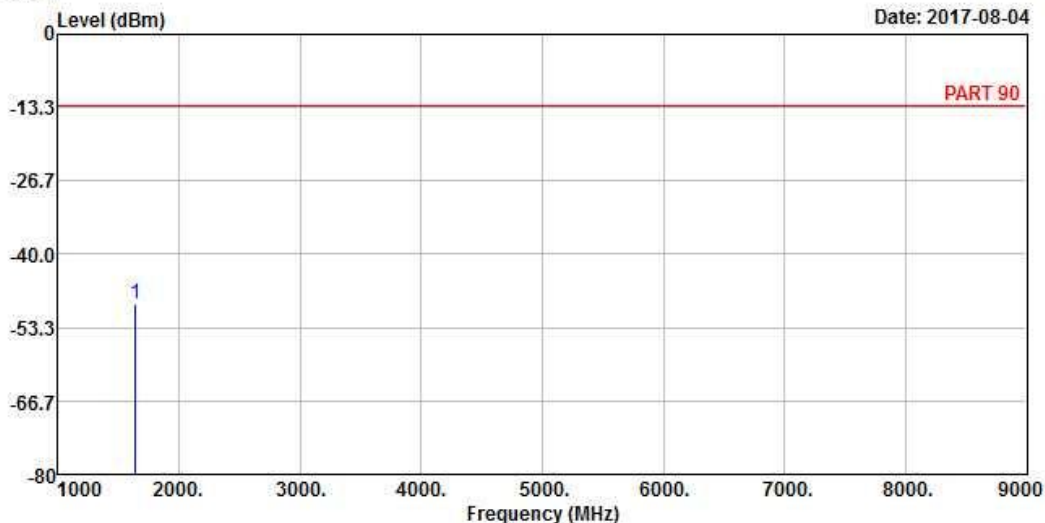


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : CDMA BC10\_M-CH  
 Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1641.00	-49.09	-34.36	-13.00	-36.09	-14.73	Peak

# High Channel

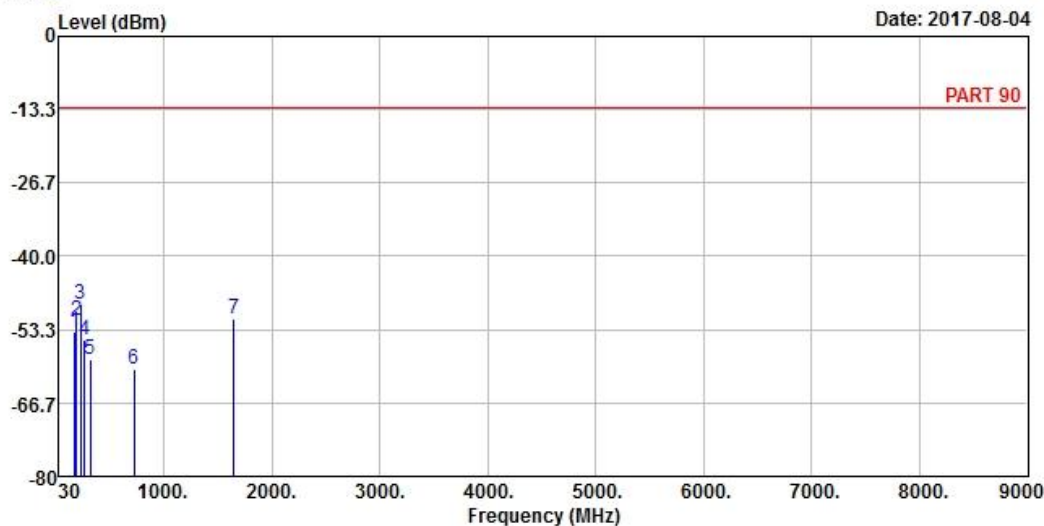


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : CDMA BC10\_H-CH  
 Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	171.62	-53.62	-47.75	-13.00	-40.62	-5.87	Peak
2	188.11	-51.59	-44.44	-13.00	-38.59	-7.15	Peak
3 pp	225.94	-48.73	-41.76	-13.00	-35.73	-6.97	Peak
4	263.77	-55.29	-49.02	-13.00	-42.29	-6.27	Peak
5	315.18	-58.64	-51.86	-13.00	-45.64	-6.78	Peak
6	723.55	-60.40	-60.76	-13.00	-47.40	0.36	Peak
7	1646.20	-51.50	-36.77	-13.00	-38.50	-14.73	Peak

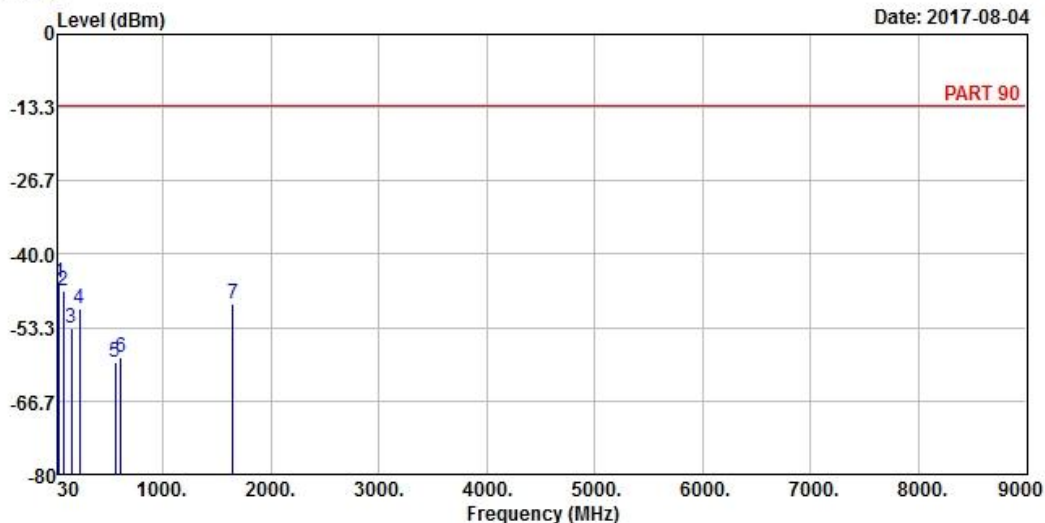


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : CDMA BC10\_H-CH  
 Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	38.73	-45.17	-45.27	-13.00	-32.17	0.10	Peak
2	78.50	-46.76	-36.33	-13.00	-33.76	-10.43	Peak
3	152.22	-53.39	-46.36	-13.00	-40.39	-7.03	Peak
4	226.91	-49.86	-42.93	-13.00	-36.86	-6.93	Peak
5	554.77	-59.75	-57.10	-13.00	-46.75	-2.65	Peak
6	612.00	-58.61	-57.83	-13.00	-45.61	-0.78	Peak
7	1646.20	-48.96	-34.23	-13.00	-35.96	-14.73	Peak

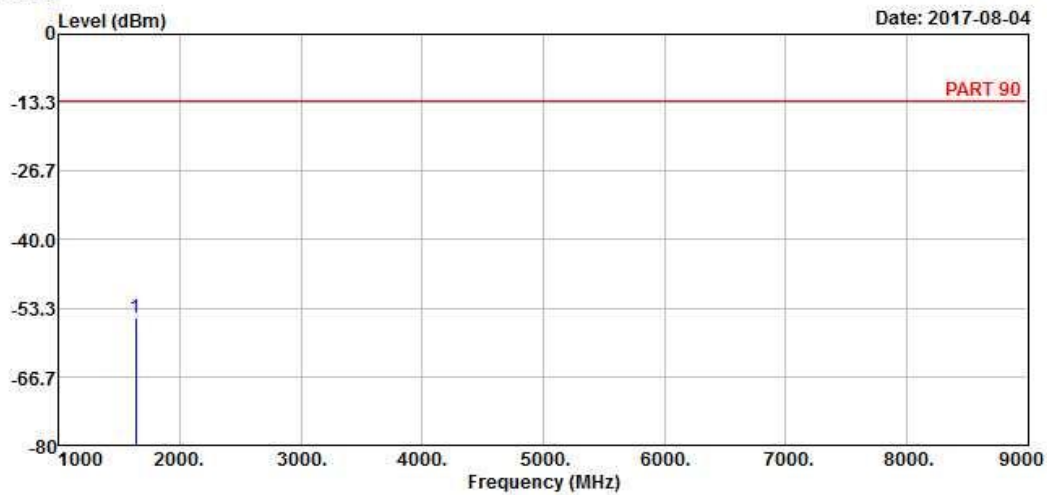
LTE Band 26  
Channel Bandwidth: 10 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5  
Condition: PART 90 HORIZONTAL  
Remak : LTE Band 26\_QPSK\_10M\_L-CH  
Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1633.00	-55.28	-40.49	-13.00	-42.28	-14.79	Peak

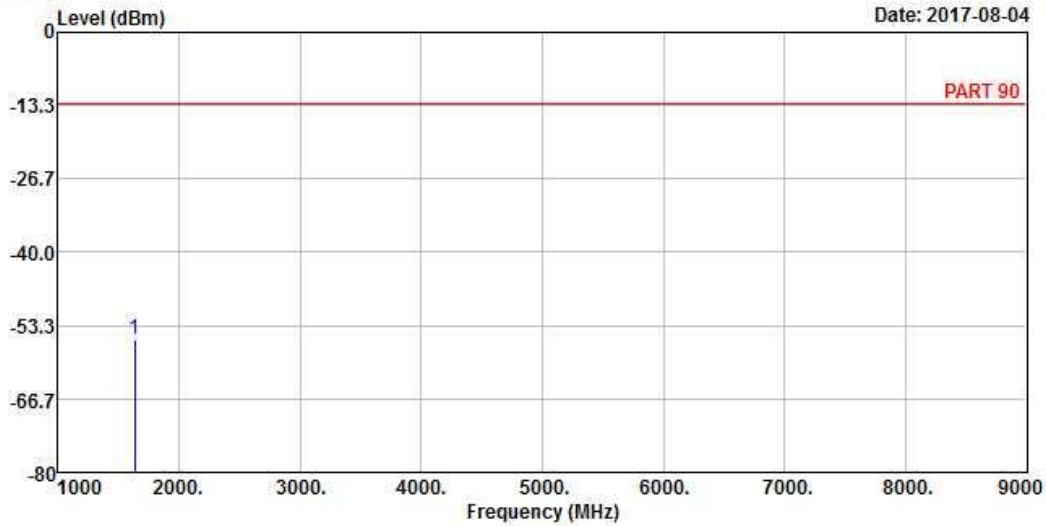


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : LTE Band 26\_QPSK\_10M\_L-CH  
 Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1633.00	-55.73	-40.94	-13.00	-42.73	-14.79	Peak

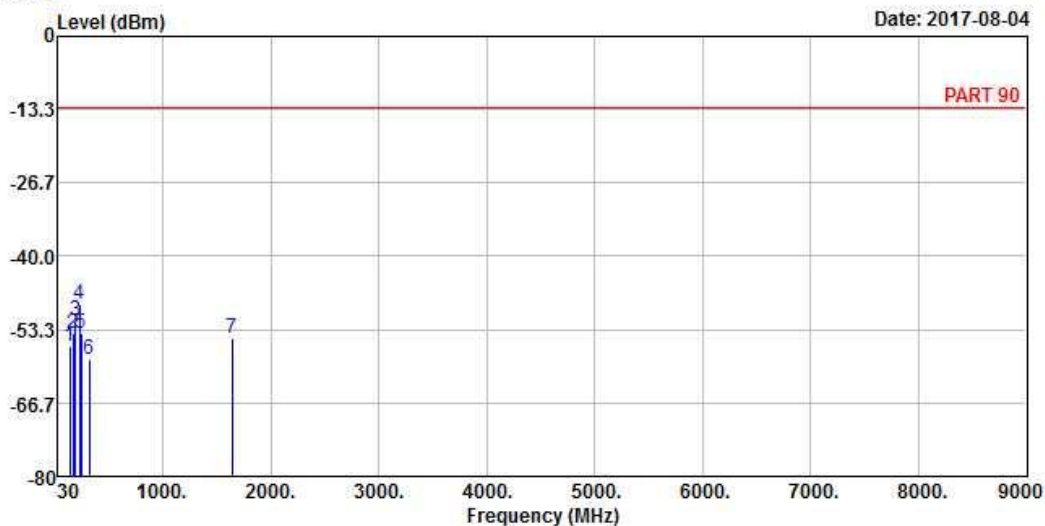
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5  
 Condition: PART 90 HORIZONTAL  
 Remak : LTE Band 26\_QPSK\_10M\_M-CH  
 Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	137.67	-56.49	-47.83	-13.00	-43.49	-8.66	Peak
2	166.77	-54.08	-48.76	-13.00	-41.08	-5.32	Peak
3	188.11	-51.59	-44.44	-13.00	-38.59	-7.15	Peak
4 pp	225.94	-48.73	-41.76	-13.00	-35.73	-6.97	Peak
5	246.31	-53.90	-47.75	-13.00	-40.90	-6.15	Peak
6	315.18	-58.64	-51.86	-13.00	-45.64	-6.78	Peak
7	1638.00	-55.04	-40.25	-13.00	-42.04	-14.79	Peak



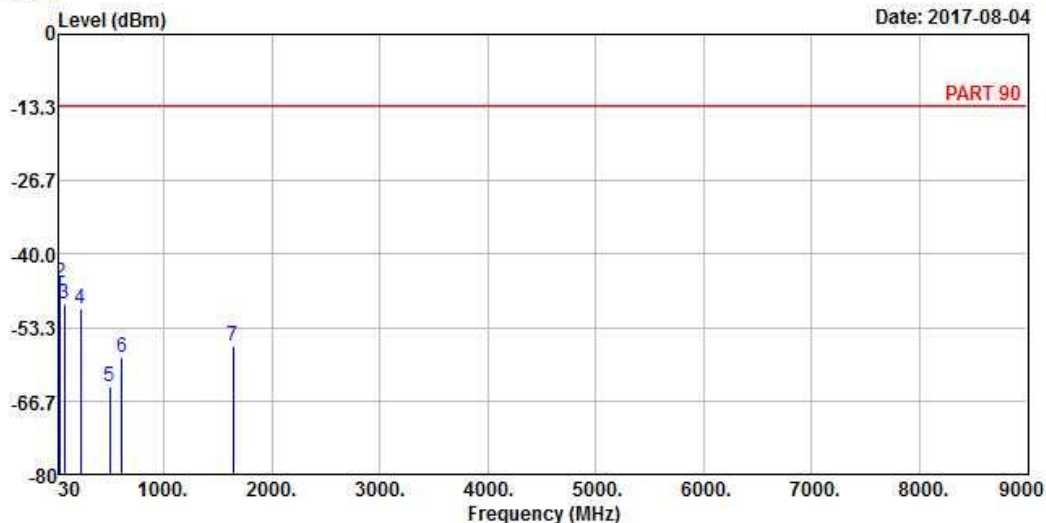


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART 90 VERTICAL  
 Remak : LTE Band 26\_QPSK\_10M\_M-CH  
 Tested by: Gavin Wu

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	30.00	-47.83	-48.21	-13.00	-34.83	0.38	Peak
2	pp 38.73	-45.17	-45.27	-13.00	-32.17	0.10	Peak
3	80.44	-48.96	-38.08	-13.00	-35.96	-10.88	Peak
4	226.91	-49.86	-42.93	-13.00	-36.86	-6.93	Peak
5	497.54	-64.06	-59.39	-13.00	-51.06	-4.67	Peak
6	612.00	-58.61	-57.83	-13.00	-45.61	-0.78	Peak
7	1638.00	-56.79	-42.00	-13.00	-43.79	-14.79	Peak



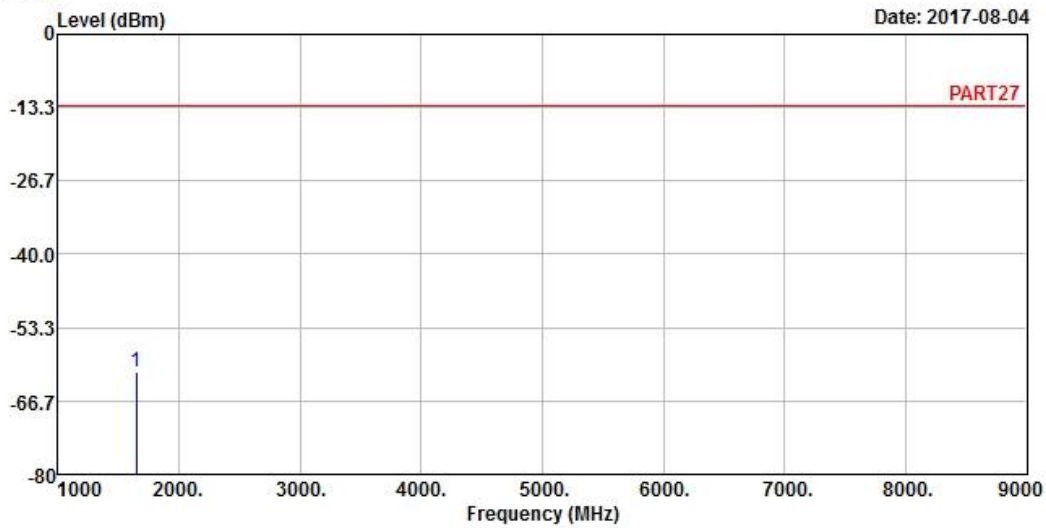
# High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

**A D T**

Data: 3



Site : 966 Chamber 5  
 Condition: PART27 HORIZONTAL  
 Remak : LTE Band 26\_QPSK\_10M\_H-CH  
 Tested by: Gavin Wu

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 1643.00	-61.41	-46.68	-13.00	-48.41	-14.73 Peak

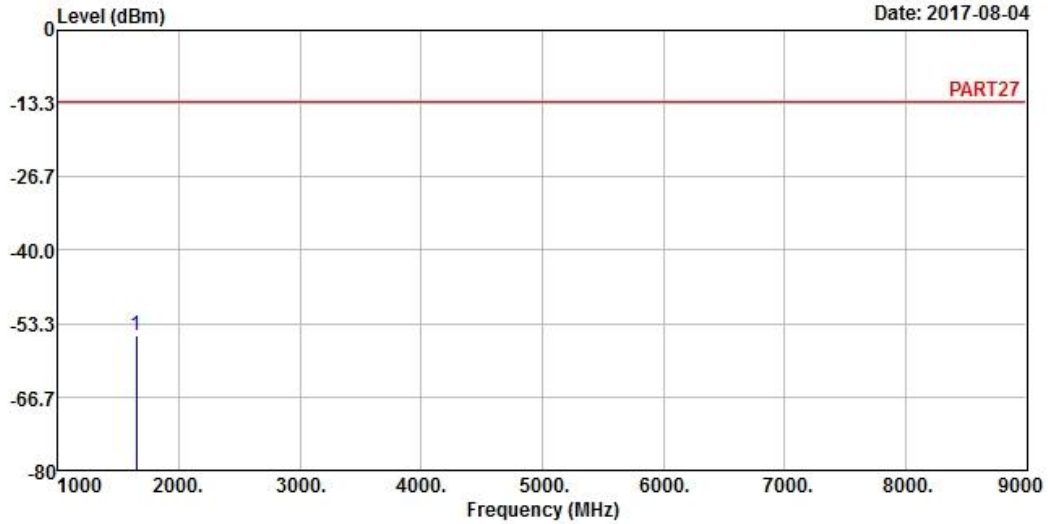


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2017-08-04



Site : 966 Chamber 5  
 Condition: PART27 VERTICAL  
 Remak : LTE Band 26\_QPSK\_10M\_H-CH  
 Tested by: Gavin Wu

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1643.00	-55.58	-40.85	-13.00	-42.58	-14.73	Peak

## 5 Pictures of Test Arrangements

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

## Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

**Linko EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

**Hwa Ya EMC/RF/Safety**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

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