

# FCC RADIO TEST REPORT

FCC ID : PJO6901  
Equipment : MT-T800  
Brand Name : Arima  
Model Name : MT-T800  
Marketing Name : Arima tablet  
Applicant : Arima Communication Corporation  
No. 16, Lane 658, Ying Tao Road, Yingge  
Dist., New Taipei City 23943, Taiwan (ROC)  
Manufacturer : Arima Communication Corporation  
No. 16, Lane 658, Ying Tao Road, Yingge  
Dist., New Taipei City 23943, Taiwan (ROC)  
Standard : 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Feb. 13, 2020 and testing was started from Feb. 26, 2020 and completed on Apr. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



## Table of Contents

<b>History of this test report.....</b>	<b>3</b>
<b>Summary of Test Result.....</b>	<b>4</b>
<b>1 General Description .....</b>	<b>5</b>
1.1 Product Feature of Equipment Under Test .....	5
1.2 Modification of EUT .....	5
1.3 Testing Location .....	6
1.4 Applicable Standards .....	6
<b>2 Test Configuration of Equipment Under Test .....</b>	<b>7</b>
2.1 Test Mode.....	7
2.2 Connection Diagram of Test System .....	7
2.3 Support Unit used in test configuration .....	8
2.4 Measurement Results Explanation Example .....	8
2.5 Frequency List of Low/Middle/High Channels .....	8
<b>3 Conducted Test Result .....</b>	<b>9</b>
3.1 Measuring Instruments.....	9
3.2 Conducted Output Power and ERP/EIRP .....	10
3.3 Peak-to-Average Ratio .....	11
3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement.....	12
3.5 Conducted Band Edge .....	13
3.6 Conducted Spurious Emission .....	14
3.7 Frequency Stability .....	15
<b>4 Radiated Test Items .....</b>	<b>16</b>
4.1 Measuring Instruments.....	16
4.2 Test Setup .....	16
4.3 Test Result of Radiated Test.....	17
4.4 Field Strength of Spurious Radiation Measurement .....	18
<b>5 List of Measuring Equipment.....</b>	<b>19</b>
<b>6 Uncertainty of Evaluation .....</b>	<b>21</b>
<b>Appendix A. Test Results of Conducted Test</b>	
<b>Appendix B. Test Results of ERP/EIRP and Radiated Test</b>	
<b>Appendix C. Test Setup Photographs</b>	



## History of this test report

Report No.	Version	Description	Issued Date
FG012248A	01	Initial issue of report	May 29, 2020

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(2)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	
3.4	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 20.90 dB at 7630.400 MHz

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Tina Chuang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, FM Receiver, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed Internal Antenna WLAN: Monopole Antenna Bluetooth: Monopole Antenna GPS / Glonass: Fixed Internal Antenna FM: Using Earphone as Antenna

## 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.3 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH03-HY
<b>Test Engineer</b>	Louis Chung
<b>Temperature</b>	21~24℃
<b>Relative Humidity</b>	51~55%

**Note:** The test site complies with ANSI C63.4 2014 requirement.

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH15-HY
<b>Test Engineer</b>	Leo Lee, Mancy Chou, and Bigshow Wang
<b>Temperature</b>	20.3~25.1℃
<b>Relative Humidity</b>	55~61%

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

### 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for PCS Band ; Y Plane for Cellular Band ; Z Plane for AWS Band) were recorded in this report.

Radiated emissions were investigated as following frequency range:

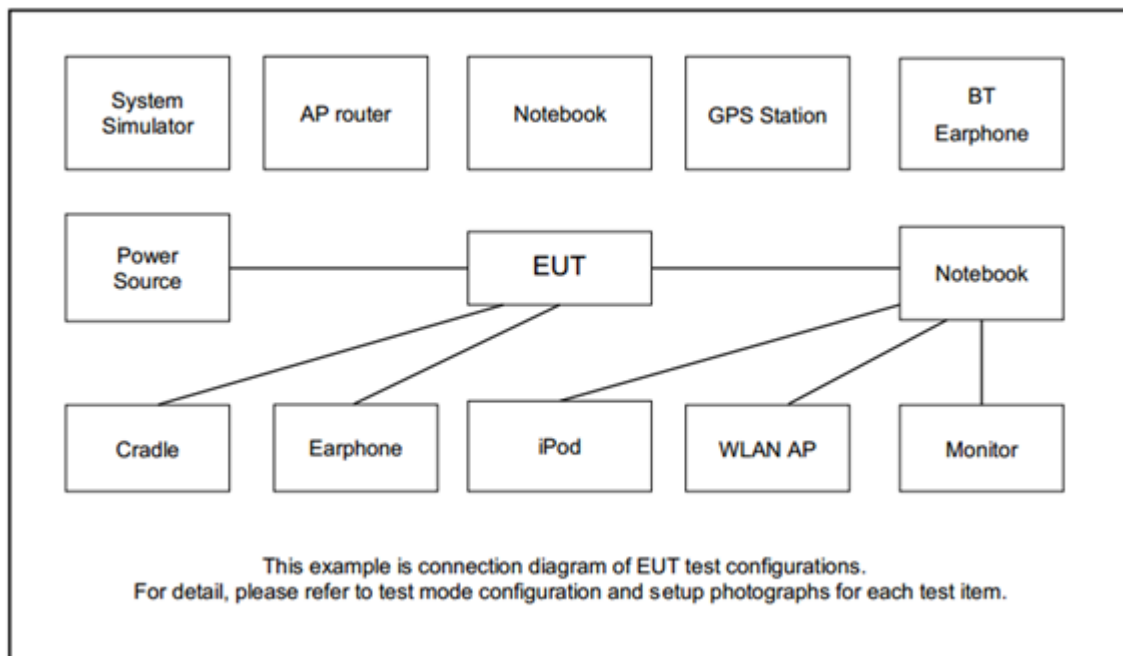
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

### 2.2 Connection Diagram of Test System





## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example:

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

## 2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6



### 3 Conducted Test Result

#### 3.1 Measuring Instruments

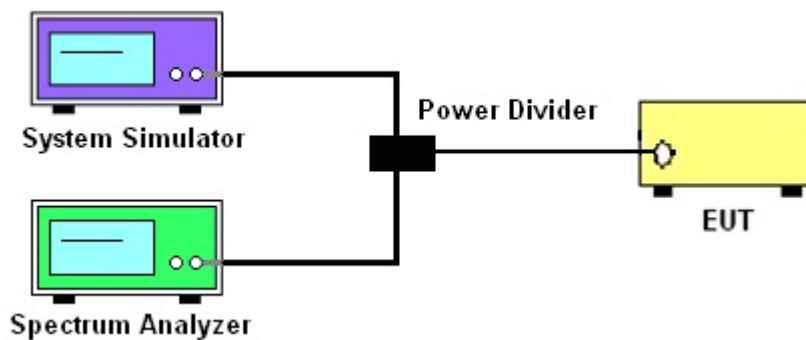
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

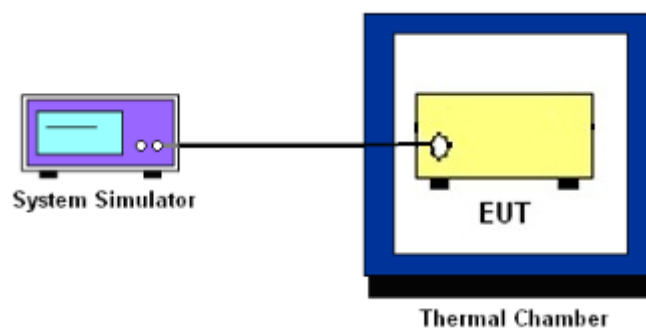
##### 3.1.2 Conducted Output Power



##### 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



### **3.3 Peak-to-Average Ratio**

#### **3.3.1 Description of the PAR Measurement**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### **3.3.2 Test Procedures**

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.
5. Record the maximum PAPR level associated with a probability of 0.1%.

### 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



## **3.5 Conducted Band Edge**

### **3.5.1 Description of Conducted Band Edge Measurement**

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### **3.5.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

## **3.6 Conducted Spurious Emission**

### **3.6.1 Description of Conducted Spurious Emission Measurement**

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### **3.6.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

### 3.7 Frequency Stability

#### 3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

24.235 & 27.54

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

#### 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

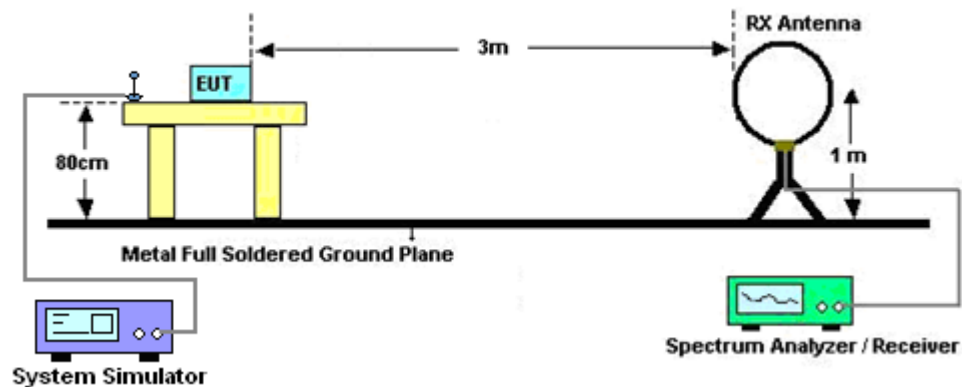
## 4 Radiated Test Items

### 4.1 Measuring Instruments

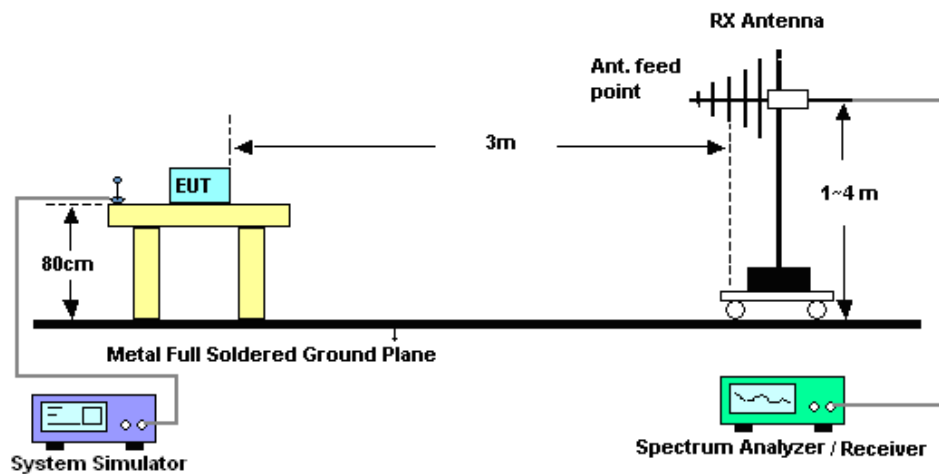
See list of measuring instruments of this test report.

### 4.2 Test Setup

For radiated emissions below 30MHz

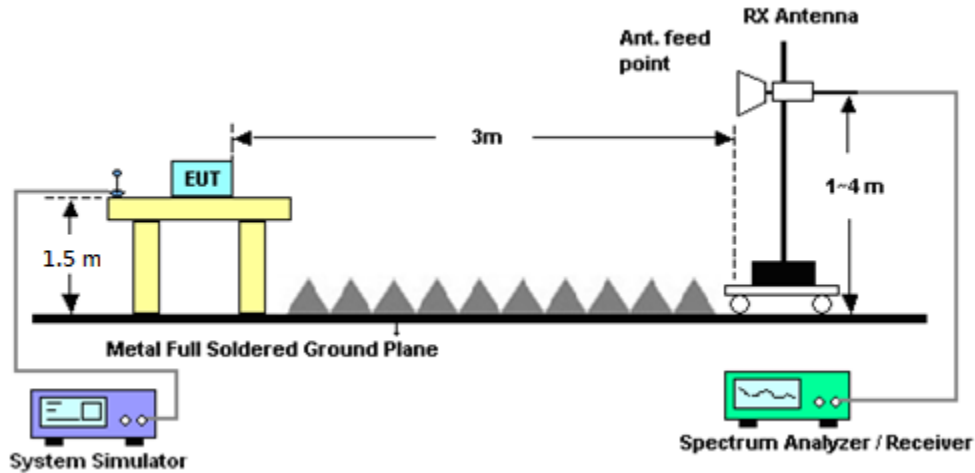


For radiated test from 30MHz to 1GHz





For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.4 Field Strength of Spurious Radiation Measurement**

### **4.4.1 Description of Field Strength of Spurious Radiated Measurement**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.4.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 06, 2019	Feb. 26, 2020	Mar. 05, 2020	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	Feb. 26, 2020	Sep. 03, 2020	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 26, 2019	Feb. 26, 2020	Nov. 25, 2020	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 09, 2019	Feb. 26, 2020	Oct. 08, 2020	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 23, 2019	Feb. 26, 2020	Aug. 22, 2020	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26.5S-20	#A	N/A	Nov. 06, 2019	Feb. 26, 2020	Nov. 05, 2020	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Feb. 27, 2020~ Apr. 06, 2020	Jan. 08, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 09, 2020	Feb. 27, 2020~ Apr. 06, 2020	Feb. 08, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1620	1-18GHz	Oct. 28, 2019	Feb. 27, 2020~ Apr. 06, 2020	Oct. 27, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-2114	1-18GHz	Jul. 31, 2019	Feb. 27, 2020~ Apr. 06, 2020	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	Feb. 27, 2020~ Apr. 06, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2019	Feb. 27, 2020~ Apr. 06, 2020	Dec. 26, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	Feb. 27, 2020~ Apr. 06, 2020	Aug. 22, 2020	Radiation (03CH15-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Feb. 27, 2020~ Apr. 06, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	Feb. 27, 2020~ Apr. 06, 2020	Oct. 31, 2020	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 29, 2019	Feb. 27, 2020~ Apr. 06, 2020	Apr. 28, 2020	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 27, 2020~ Apr. 06, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 27, 2020~ Apr. 06, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-000451	N/A	N/A	Feb. 27, 2020~ Apr. 06, 2020	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 15, 2019	Feb. 27, 2020~ Apr. 06, 2020	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 15, 2019	Feb. 27, 2020~ Apr. 06, 2020	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430/4	30M~18GHz	May 13, 2019	Feb. 27, 2020~ Apr. 06, 2020	May 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	Feb. 27, 2020~ Apr. 06, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	Feb. 27, 2020~ Apr. 06, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0ST	SN5	1.2GHz High Pass Filter	Jul. 02, 2019	Feb. 27, 2020~ Apr. 06, 2020	Jul. 01, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN4	3GHz High Pass Filter	Sep. 17, 2019	Feb. 27, 2020~ Apr. 06, 2020	Sep. 16, 2020	Radiation (03CH15-HY)

## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.06
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.63
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.16
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	23.48	23.50	23.43	24.51	24.48	24.46
HSDPA Subtest-1	22.63	22.58	22.52	23.45	23.45	23.51
HSDPA Subtest-2	22.62	22.55	22.53	23.57	23.61	23.64
HSDPA Subtest-3	22.16	22.07	22.06	23.10	23.14	23.17
HSDPA Subtest-4	22.16	22.07	22.06	23.10	23.14	23.18
HSUPA Subtest-1	21.95	21.99	21.92	22.81	22.79	22.83
HSUPA Subtest-2	21.49	21.51	21.50	22.38	22.44	22.28
HSUPA Subtest-3	21.22	21.14	21.07	22.08	22.15	22.19
HSUPA Subtest-4	21.78	21.70	21.52	22.36	22.72	22.75
HSUPA Subtest-5	22.50	22.40	22.40	23.40	23.40	23.40

Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	24.60	24.51	24.46
HSDPA Subtest-1	23.76	23.75	23.75
HSDPA Subtest-2	23.93	23.84	23.89
HSDPA Subtest-3	23.46	23.37	23.46
HSDPA Subtest-4	23.47	23.38	23.47
HSUPA Subtest-1	23.58	23.45	23.08
HSUPA Subtest-2	22.30	22.82	22.78
HSUPA Subtest-3	22.61	22.43	22.39
HSUPA Subtest-4	22.99	22.83	22.92
HSUPA Subtest-5	23.60	23.70	23.70

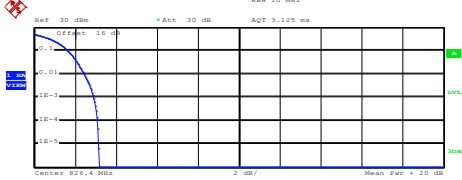
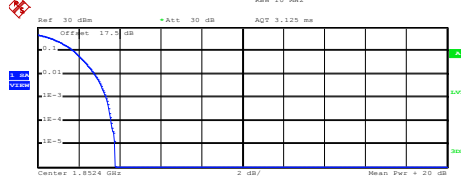
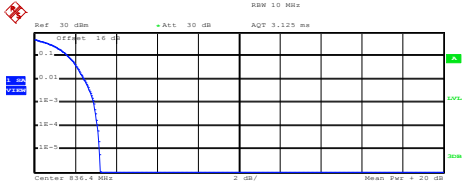
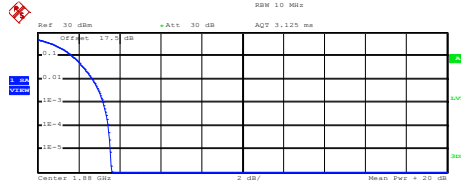
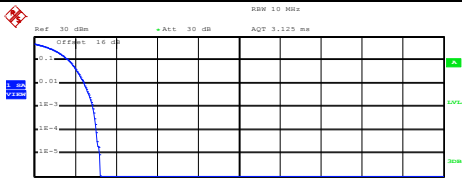
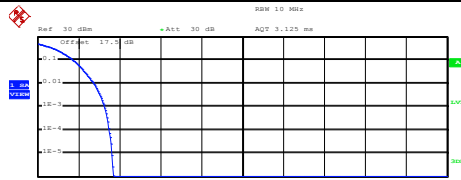


## A2. WCDMA

<b>Peak-to-Average Ratio</b>
------------------------------

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.92	3.36	3.32	PASS
Middle CH	2.92	3.20	3.28	
Highest CH	2.88	3.28	3.40	

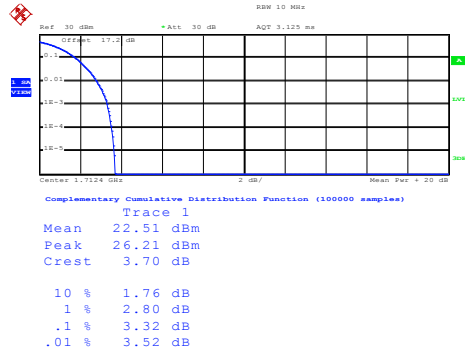


WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																
Lowest Channel	Lowest Channel																
 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 826.4 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.65 dBm Peak: 25.85 dBm Crest: 3.20 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.44 dB</td></tr><tr><td>.1 %</td><td>2.92 dB</td></tr><tr><td>.01 %</td><td>3.08 dB</td></tr></table> <p>Date: 26.FEB.2020 11:32:05</p>	10 %	1.68 dB	1 %	2.44 dB	.1 %	2.92 dB	.01 %	3.08 dB	 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 1.8524 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.35 dBm Peak: 26.13 dBm Crest: 3.78 dB</p> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.76 dB</td></tr><tr><td>.1 %</td><td>3.36 dB</td></tr><tr><td>.01 %</td><td>3.60 dB</td></tr></table> <p>Date: 26.FEB.2020 10:50:21</p>	10 %	1.76 dB	1 %	2.76 dB	.1 %	3.36 dB	.01 %	3.60 dB
10 %	1.68 dB																
1 %	2.44 dB																
.1 %	2.92 dB																
.01 %	3.08 dB																
10 %	1.76 dB																
1 %	2.76 dB																
.1 %	3.36 dB																
.01 %	3.60 dB																
Middle Channel	Middle Channel																
 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 830.4 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.69 dBm Peak: 25.92 dBm Crest: 3.24 dB</p> <table><tr><td>10 %</td><td>1.64 dB</td></tr><tr><td>1 %</td><td>2.44 dB</td></tr><tr><td>.1 %</td><td>2.92 dB</td></tr><tr><td>.01 %</td><td>3.08 dB</td></tr></table> <p>Date: 26.FEB.2020 11:32:17</p>	10 %	1.64 dB	1 %	2.44 dB	.1 %	2.92 dB	.01 %	3.08 dB	 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 1.85 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.46 dBm Peak: 26.06 dBm Crest: 3.61 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.68 dB</td></tr><tr><td>.1 %</td><td>3.20 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> <p>Date: 26.FEB.2020 10:50:31</p>	10 %	1.68 dB	1 %	2.68 dB	.1 %	3.20 dB	.01 %	3.44 dB
10 %	1.64 dB																
1 %	2.44 dB																
.1 %	2.92 dB																
.01 %	3.08 dB																
10 %	1.68 dB																
1 %	2.68 dB																
.1 %	3.20 dB																
.01 %	3.44 dB																
Highest Channel	Highest Channel																
 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 846.6 MHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.63 dBm Peak: 25.85 dBm Crest: 3.23 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.44 dB</td></tr><tr><td>.1 %</td><td>2.88 dB</td></tr><tr><td>.01 %</td><td>3.04 dB</td></tr></table> <p>Date: 26.FEB.2020 11:32:28</p>	10 %	1.68 dB	1 %	2.44 dB	.1 %	2.88 dB	.01 %	3.04 dB	 <p>Ref: 30 dBm    Att: 30 dB    AQT: 3.125 ms Center: 1.9076 GHz    2 dB/    Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.37 dBm Peak: 26.06 dBm Crest: 3.69 dB</p> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.76 dB</td></tr><tr><td>.1 %</td><td>3.28 dB</td></tr><tr><td>.01 %</td><td>3.48 dB</td></tr></table> <p>Date: 26.FEB.2020 10:50:41</p>	10 %	1.72 dB	1 %	2.76 dB	.1 %	3.28 dB	.01 %	3.48 dB
10 %	1.68 dB																
1 %	2.44 dB																
.1 %	2.88 dB																
.01 %	3.04 dB																
10 %	1.72 dB																
1 %	2.76 dB																
.1 %	3.28 dB																
.01 %	3.48 dB																



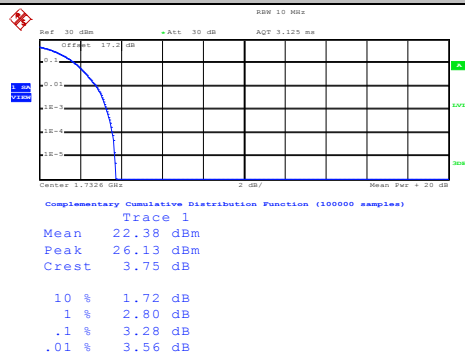
## WCDMA Band IV (RMC 12.2Kbps)

### Lowest Channel



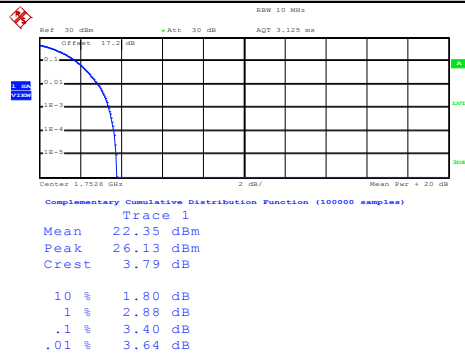
Date: 26.FEB.2020 11:14:15

### Middle Channel



Date: 26.FEB.2020 11:14:31

### Highest Channel



Date: 26.FEB.2020 11:14:47

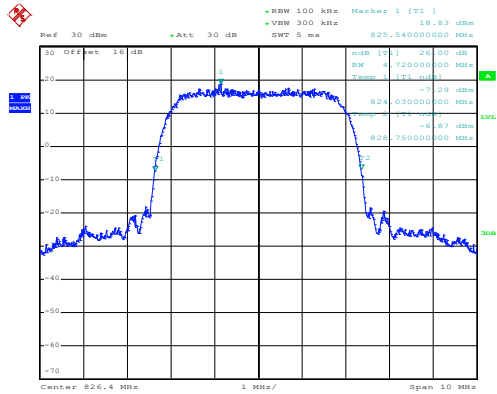
**26dB Bandwidth**

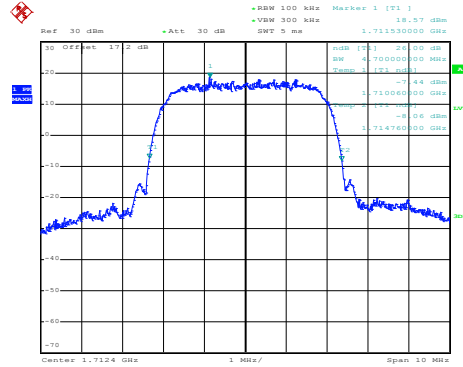
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.72	4.70
Middle CH	4.73	4.70	4.71
Highest CH	4.73	4.69	4.69



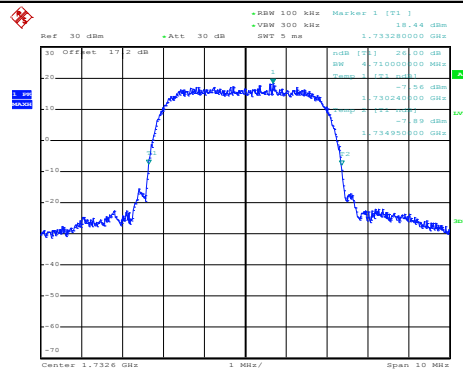
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

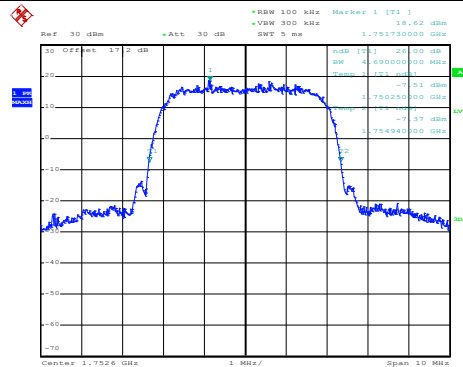


**WCDMA Band IV (RMC 12.2Kbps)**
**Lowest Channel**


Date: 26.FEB.2020 11:09:58

**Middle Channel**


Date: 26.FEB.2020 11:10:36

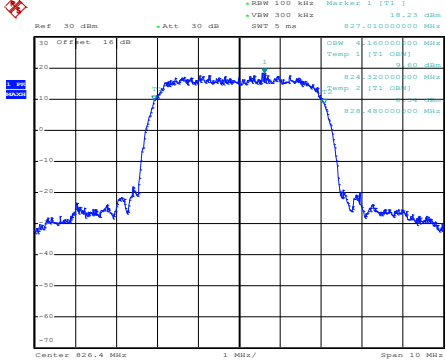
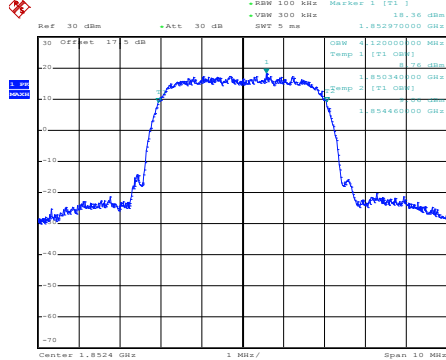
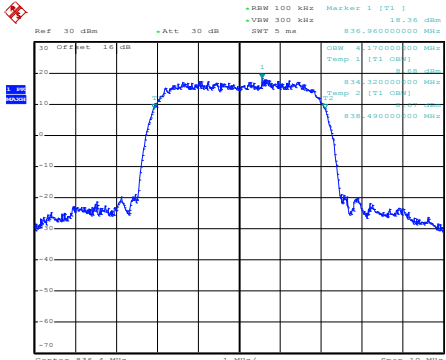
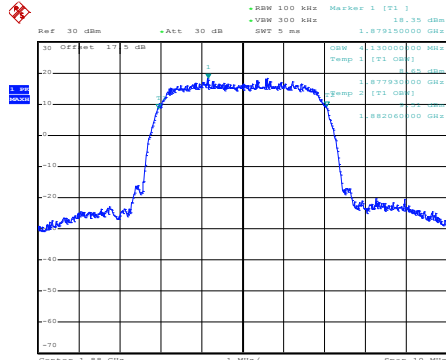
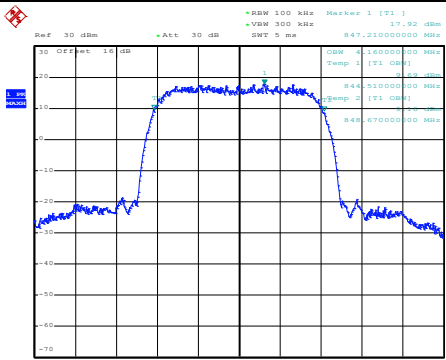
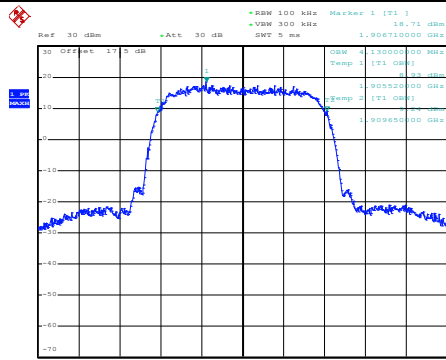
**Highest Channel**


Date: 26.FEB.2020 11:11:05

**Occupied Bandwidth**

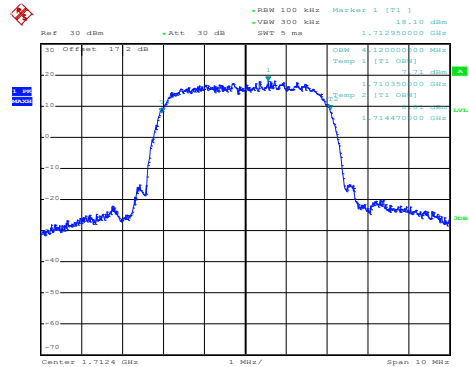
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.16	4.12	4.12
Middle CH	4.17	4.13	4.13
Highest CH	4.16	4.13	4.13



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
 <p>Date: 26.FEB.2020 11:33:36</p>	 <p>Date: 26.FEB.2020 10:51:26</p>
Middle Channel	Middle Channel
 <p>Date: 26.FEB.2020 11:34:12</p>	 <p>Date: 26.FEB.2020 10:51:58</p>
Highest Channel	Highest Channel
 <p>Date: 26.FEB.2020 11:34:44</p>	 <p>Date: 26.FEB.2020 10:52:34</p>

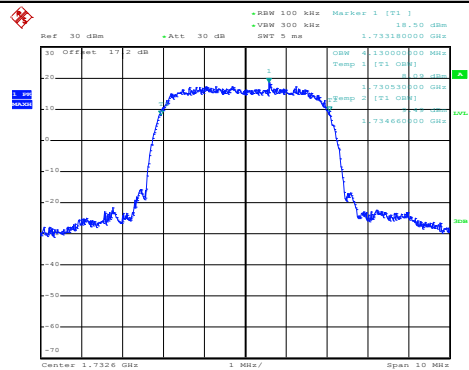
## WCDMA Band IV (RMC 12.2Kbps)

### Lowest Channel



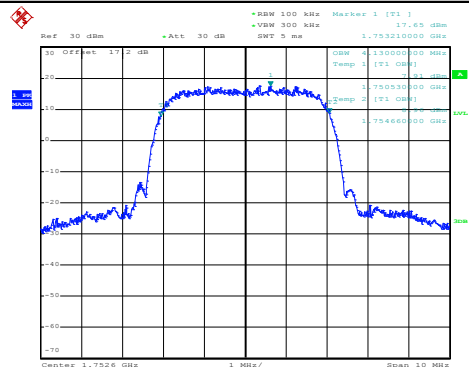
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### Middle Channel

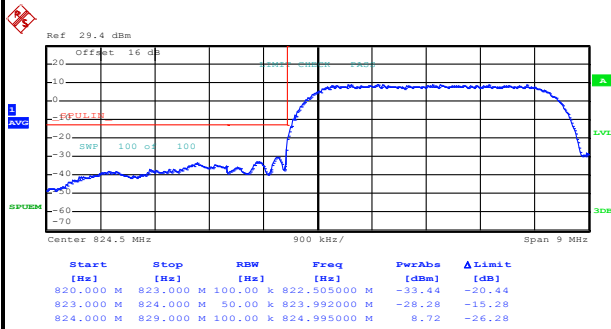


Date: 26.FEB.2020 11:16:39

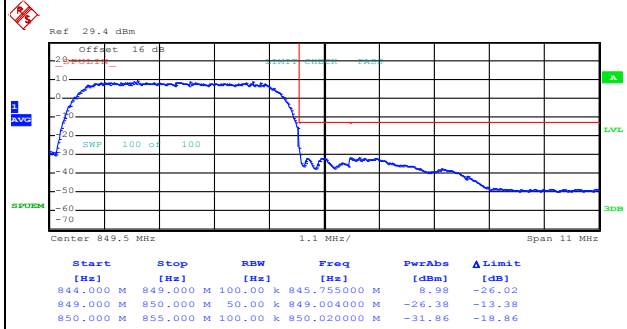
### Highest Channel



Date: 26.FEB.2020 11:17:16

**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge**

Date: 26.FEB.2020 11:37:48

**Highest Band Edge**

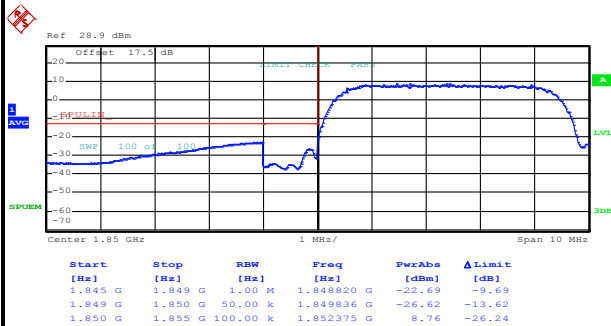
Date: 26.FEB.2020 11:40:40





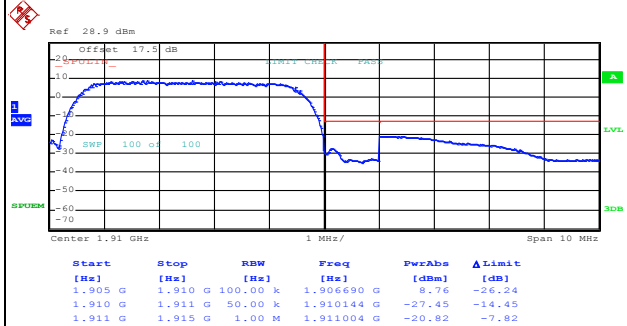
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge



Date: 26.FEB.2020 10:55:38

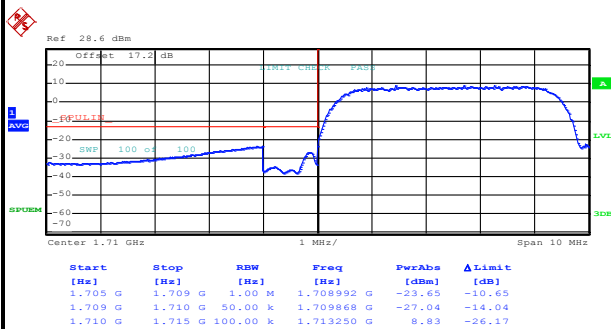
## Highest Band Edge



Date: 26.FEB.2020 10:58:37

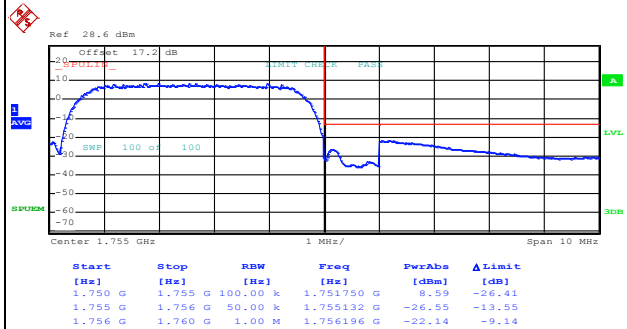
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge

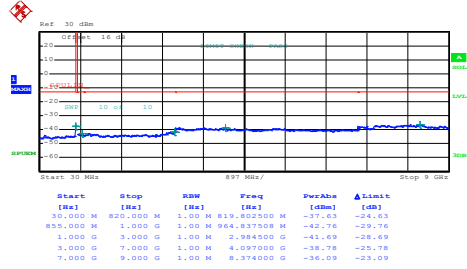


Date: 26.FEB.2020 11:20:13

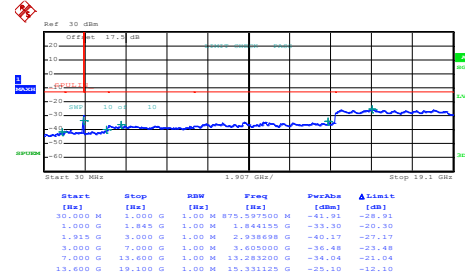
## Highest Band Edge



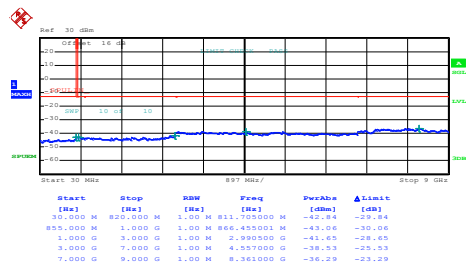
Date: 26.FEB.2020 11:23:04

**Conducted Spurious Emission****WCDMA Band V (RMC 12.2Kbps)****Lowest Channel**

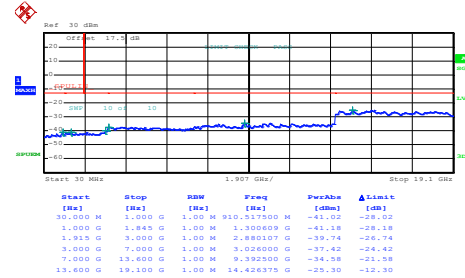
Date: 26.FEB.2020 11:30:04

**WCDMA Band II (RMC 12.2Kbps)****Lowest Channel**

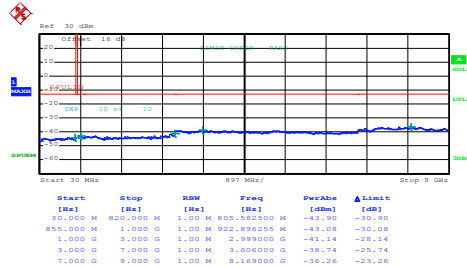
Date: 26.FEB.2020 10:48:14

**Middle Channel**

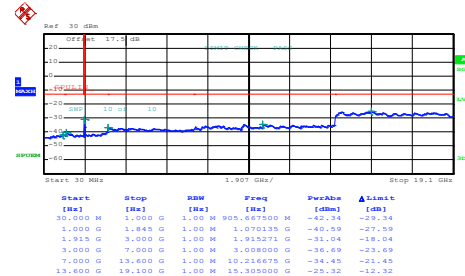
Date: 26.FEB.2020 11:30:56

**Middle Channel**

Date: 26.FEB.2020 10:49:10

**Highest Channel**

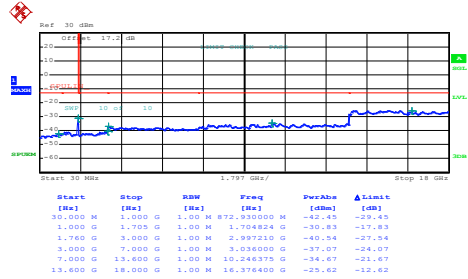
Date: 26.FEB.2020 11:31:46

**Highest Channel**

Date: 26.FEB.2020 10:50:02

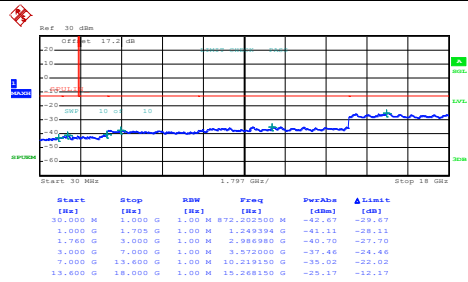
## WCDMA Band IV (RMC 12.2Kbps)

### Lowest Channel



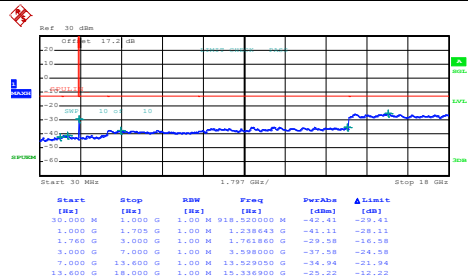
Date: 26.FEB.2020 11:12:08

### Middle Channel



Date: 26.FEB.2020 11:13:00

### Highest Channel



Date: 26.FEB.2020 11:13:54

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0143	PASS
40	Normal Voltage	0.0155	
30	Normal Voltage	0.0132	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0080	PASS
40	Normal Voltage	0.0090	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0064	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0144	
0	Normal Voltage	0.0167	
-10	Normal Voltage	0.0156	
-20	Normal Voltage	0.0121	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	WCDMA Band V	23.48	0.2228	8.73	0.0075
Middle	RMC 12.2Kbps	23.50	0.2239	8.75	0.0075
Highest	GT - LC = -12.6 dB	23.43	0.2203	8.68	0.0074
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band II	24.51	0.2825	24.73	0.2972
Middle	RMC 12.2Kbps	24.48	0.2805	24.70	0.2951
Highest	(GT - LC = 0.22 dB)	24.46	0.2793	24.68	0.2938
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV	24.60	0.2884	24.85	0.3055
Middle	RMC 12.2Kbps	24.51	0.2825	24.76	0.2992
Highest	(GT - LC = 0.25 dB)	24.46	0.2793	24.71	0.2958
Limit	EIRP < 1W	Result		PASS	

**Radiated Spurious Emission****WCDMA 850**

WCDMA 850									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652.8	-53.70	-13	-40.70	-64.54	-59.56	0.70	8.71	H
	2479.2	-50.32	-13	-37.32	-66	-57.99	0.95	10.77	H
	3305.6	-48.88	-13	-35.88	-66.76	-57.40	1.20	11.87	H
	1652.8	-53.48	-13	-40.48	-64.2	-59.34	0.70	8.71	V
	2479.2	-49.78	-13	-36.78	-65.45	-57.45	0.95	10.77	V
	3305.6	-49.12	-13	-36.12	-66.82	-57.64	1.20	11.87	V
Middle	1672.8	-53.86	-13	-40.86	-64.8	-59.79	0.71	8.79	H
	2509.2	-48.92	-13	-35.92	-64.61	-56.62	0.95	10.81	H
	3345.6	-48.16	-13	-35.16	-65.94	-56.76	1.21	11.96	H
	1672.8	-53.40	-13	-40.40	-64.24	-59.33	0.71	8.79	V
	2509.2	-49.69	-13	-36.69	-65.4	-57.39	0.95	10.81	V
	3345.6	-48.76	-13	-35.76	-66.23	-57.36	1.21	11.96	V
Highest	1693.2	-53.25	-13	-40.25	-64.3	-59.25	0.72	8.87	H
	2539.8	-49.68	-13	-36.68	-65.43	-57.40	0.96	10.83	H
	3386.4	-49.11	-13	-36.11	-66.77	-57.79	1.22	12.05	H
	1693.2	-53.65	-13	-40.65	-64.63	-59.65	0.72	8.87	V
	2539.8	-49.59	-13	-36.59	-65.62	-57.31	0.96	10.83	V
	3386.4	-49.32	-13	-36.32	-66.55	-58.00	1.22	12.05	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**WCDMA 1900**

WCDMA 1900									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704.8	-44.20	-13	-31.20	-64.46	-55.23	1.43	12.46	H
	5557.2	-35.71	-13	-22.71	-59.39	-46.99	2.01	13.29	H
	7409.6	-38.28	-13	-25.28	-66.02	-47.46	2.21	11.39	H
	3704.8	-45.61	-13	-32.61	-65.57	-56.64	1.43	12.46	V
	5557.2	-35.53	-13	-22.53	-59.42	-46.81	2.01	13.29	V
	7409.6	-36.75	-13	-23.75	-64.06	-45.93	2.21	11.39	V
Middle	3760	-45.00	-13	-32.00	-65.38	-56.03	1.48	12.51	H
	5640	-35.67	-13	-22.67	-59.36	-46.94	2.00	13.27	H
	7520	-38.91	-13	-25.91	-66.52	-48.02	2.18	11.30	H
	3760	-45.76	-13	-32.76	-65.89	-56.79	1.48	12.51	V
	5640	-35.74	-13	-22.74	-59.72	-47.01	2.00	13.27	V
	7520	-37.22	-13	-24.22	-64.99	-46.33	2.18	11.30	V
Highest	3815.2	-45.74	-13	-32.74	-66.22	-56.76	1.53	12.55	H
	5722.8	-36.14	-13	-23.14	-59.92	-47.40	1.99	13.26	H
	7630.4	-39.01	-13	-26.01	-66.06	-48.02	2.26	11.27	H
	3815.2	-45.65	-13	-32.65	-65.95	-56.67	1.53	12.55	V
	5722.8	-34.49	-13	-21.49	-58.53	-45.75	1.99	13.26	V
	7630.4	-33.90	-13	-20.90	-61.17	-42.91	2.26	11.27	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**WCDMA 1700**

WCDMA 1700									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3424.8	-46.75	-13	-33.75	-65.47	-57.65	1.23	12.13	H
	5137.2	-38.55	-13	-25.55	-62.19	-49.45	1.97	12.86	H
	6849.6	-40.75	-13	-27.75	-65.75	-49.72	2.34	11.32	H
	3424.8	-45.85	-13	-32.85	-64.17	-56.75	1.23	12.13	V
	5137.2	-39.62	-13	-26.62	-63	-50.52	1.97	12.86	V
	6849.6	-41.25	-13	-28.25	-66.13	-50.22	2.34	11.32	V
Middle	3465.2	-46.27	-13	-33.27	-65.41	-57.25	1.24	12.22	H
	5197.8	-39.14	-13	-26.14	-62.98	-50.10	1.97	12.94	H
	6930.4	-39.81	-13	-26.81	-65.54	-49.03	2.36	11.58	H
	3465.2	-46.00	-13	-33.00	-64.88	-56.98	1.24	12.22	V
	5197.8	-37.12	-13	-24.12	-60.52	-48.08	1.97	12.94	V
	6930.4	-40.21	-13	-27.21	-66.06	-49.43	2.36	11.58	V
Highest	3505.2	-45.85	-13	-32.85	-62.39	-56.90	1.25	12.30	H
	5257.8	-37.52	-13	-24.52	-61.32	-48.55	1.98	13.01	H
	7010.4	-38.70	-13	-25.70	-65.1	-48.12	2.37	11.79	H
	3505.2	-44.39	-13	-31.39	-63.77	-55.44	1.25	12.30	V
	5555	-35.72	-13	-22.72	-59.22	-47.00	2.01	13.29	V
	7010.4	-38.91	-13	-25.91	-65.61	-48.33	2.37	11.79	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.