

## TEST RESULT CERTIFICATION

## Applicant's name <br> $\qquad$ <br> Address <br> $\qquad$

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## Product discription

Product Name $\qquad$ : SLM757-module
Brand Name $\qquad$ MeiGLink
Model Name. : SLM757

Series Model N/A

Test Standards $\qquad$ : FCC Part 22H and 24E, 27

Test procedure $\qquad$ KDB 971168 D01 v03r01,ANSI C63.26( 2015)

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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## Date of Test

Date of performance of tests ......... 09 Apr. 2018~24 Apr. 2018
Date of Issue ................................. 25 Apr. 2018
Test Result $\qquad$ Pass


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## Revision History

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
| :---: | :---: | :---: | :---: | :---: |
| 00 | 25 Apr. 2018 | STS1804055W01 | ALL | Initial Issue |
|  |  |  |  |  |

## SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01,ANSI C63.26( 2015)

| FCC Rules | Test Description | Test Limit | Test Result | Reference |
| :---: | :---: | :---: | :---: | :---: |
| 2.1049 | Conducted OutputPower | Reporting Only | PASS |  |
| $\begin{aligned} & 2.0146 \\ & 24.232 \end{aligned}$ | Peak-to-AverageRatio | $<13 \mathrm{~dB}$ | PASS |  |
| $\begin{gathered} \hline 2.1046 \\ 22.913 \\ 24.232 \\ 27.50 \end{gathered}$ | Effective Radiated Power/Equivalent Isotropic Radiated Power | < 7 Watts max. ERP(Part 22) <br> < 2 Watts max. EIRP(Part 24) <br> <1 Watts max. EIRP(Part 27) | PASS |  |
| $\begin{gathered} 2.1049 \\ 22.917 \\ 24.238 \\ 27.53 \end{gathered}$ | Occupied Bandwidth | Reporting Only | PASS |  |
| $\begin{gathered} 2.1055 \\ 22.355 \\ 24.235 \\ 27.54 \end{gathered}$ | Frequency Stability | $<2.5 \text { ppm (Part 22) }$ <br> Emission must remain in band <br> (Part 24) <br> Emission must remain in band (Part 27) | PASS |  |
| $\begin{gathered} 2.1051 \\ 22.917 \\ 24.238 \\ 27.53 \end{gathered}$ | Spurious Emission at Antenna Terminals | < 43+10log 10(P[Watts]) | PASS |  |
| $\begin{gathered} 2.1053 \\ 22.917 \\ 24.238 \\ 27.53 \end{gathered}$ | Field Strength of Spurious Radiation | $<43+10 \log 10$ (P[Watts]) | PASS |  |
| $\begin{gathered} \hline 2.1051 \\ 22.917 \\ 24.238 \\ 27.53 \end{gathered}$ | Band Edge | < 43+10log 10(P[Watts]) | PASS |  |

## 1 INTRODUCTION

### 1.1 TEST FACTORY

## Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.: L7649; FCC Registration No.: 625569
IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

### 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements ofANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $\mathrm{k}=2$ toindicate a $95 \%$ level of confidence. The measurement data shown herein meets or exceeds the UCISPRmeasurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly tospecified limits to determine compliance.

| No. | Item | Uncertainty |
| :---: | :--- | :--- |
| 1 | RF power,conducted | $\pm 0.70 \mathrm{~dB}$ |
| 2 | Spurious emissions,conducted | $\pm 1.19 \mathrm{~dB}$ |
| 5 | All emissions,radiated(<1G) $30 \mathrm{MHz}-200 \mathrm{MHz}$ | $\pm 2.83 \mathrm{~dB}$ |
| 6 | All emissions,radiated(<1G) $200 \mathrm{MHz}-1000 \mathrm{MHz}$ | $\pm 2.94 \mathrm{~dB}$ |
| 7 | All emissions,radiated(>1G) | $\pm 3.03 \mathrm{~dB}$ |
| 8 | Temperature | $\pm 0.5^{\circ} \mathrm{C}$ |
| 9 | Humidity | $\pm 2 \%$ |

## 2 PRODUCT INFORMATION

| Product Name | SLM757-module |
| :--- | :--- |
| Hardware version number: | SLM757-A_MB_PCB_V1.02 |
| Software version number: | SLM757AMG_EQ000_2EE0.21E13EB.484806A_171110 <br> 100_V01_T05 |
| FCC ID: | 2APJ4-SLM757 |
| Tx Frequency: | WCDMA: <br> Band V: $824 \mathrm{MHz} \sim 849 \mathrm{MHz}$ <br> Band II: $1850 \mathrm{MHz} \sim 1910 \mathrm{MHz}$ <br> Band IV: $1710 \mathrm{MHz} \sim 1755 \mathrm{MHz}$ |
| Rx Frequency: | WCDMA: <br> Band V: $869 \mathrm{MHz} \sim 894 \mathrm{MHz}$ <br> Band II: $1930 \mathrm{MHz} \sim 1990 \mathrm{MHz}$ <br> Band IV: $2110 \mathrm{MHz} \sim 2155 \mathrm{MHz}$ |
| Max RF Output Power: | WCDMABand V:23.87dBm, WCDMA Band II:23.90dBm <br> WCDMA Band IV:22.95dBm |
| Type of Emission: | WCDMA850: 4M70F9W <br> WCDMA1900: 4M70F9W <br> WCDMA1700: 4M72F9W |
| SIM Card: | SIM 1 and SIM 2 is a chipset unit and tested as single <br> chipset,SIM 1 is used to tested |
| Power Supply: | DC 3.8V |
| Extreme Temp. Tolerance: | -30C to +50C |

## 3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power

Meas. License Digital Systems with maximum output power.
Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10 th harmonic for WCDMA Band V.
2. 30 MHz to 10 th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic 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 |

## 4 MEASUREMENT INSTRUMENTS

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibration | Calibrated Until |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EMI Test Receiver | R\&S | ESW | 101535 | 2017.06.01 | 2018.05.31 |
| Signal Analyzer | Agilent | N9020A | MY49100060 | 2017.03.11 | 2018.03.10 |
| Test Receiver | R\&S | ESCI | 101427 | 2017.10.15 | 2018.10.14 |
| Universal Radio Communication Tester | R\&S | CMW500 | 117239 | 2017.06.15 | 2018.06.14 |
| Bilog Antenna | TESEQ | CBL6111D | 34678 | 2017.03.24 | 2018.03.23 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1343 | 2017.10.27 | 2018.10.26 |
| SHF-EHF Horn Antenna ( $15 \mathrm{G}-40 \mathrm{GHz}$ ) | BBHA 9170 | SCHWARZBECK | BBHA9170367 | 2017.05.02 | 2018.05.01 |
| Low frequency cable | EM | R01 | N/A | 2017.03.12 | 2018.03.11 |
| Low frequency cable | EM | R06 | N/A | 2017.03.12 | 2018.03.11 |
| High frequency cable | SCHWARZBECK | R04 | N/A | 2017.03.12 | 2018.03.11 |
| High frequency cable | SCHWARZBECK | R02 | N/A | 2017.03.12 | 2018.03.11 |
| Pre-mplifier (0.1M-3GHz) | EM | EM330 | 60538 | 2017.03.12 | 2018.03.11 |
| PreAmplifier $(1 \mathrm{G}-26.5 \mathrm{GHz})$ | Agilent | 8449B | 60538 | 2017.10.15 | 2018.10.14 |
| Pre-mplifier (18G-40G) | MINI-CIRCUITS | AP-040G | 1382501 | 2017.05.15 | 2018.05.14 |
| $\begin{gathered} \text { Band Reject fil- } \\ \operatorname{ter}(1920-1980 \mathrm{MHz}) \end{gathered}$ | COM-MW | ZBSF-1920-1980 | 0092 | 2017.10.15 | 2018.10.14 |
| Band Reject fil-ter(880-915MHz) | COM-MW | ZBSF-C897.5-35 | 707 | 2017.10.15 | 2018.10.14 |
| Band Reject fil-ter(1710-1785MHz) | COM-MW | ZBSF-C1747.5-75 | 708 | 2017.10.15 | 2018.10.14 |
| $\begin{gathered} \text { Band Reject fil- } \\ \text { ter(1850-1910MHz) } \end{gathered}$ | COM-MW | ZBSF-C1880-60 | 709 | 2017.10.15 | 2018.10.14 |
| $\begin{gathered} \text { Band Reject fil- } \\ \text { ter( } 2500-2570 \mathrm{MHz}) \end{gathered}$ | COM-MW | ZBSF-C2535-70 | 710 | 2017.10.15 | 2018.10.14 |
| Highpass Filter | WHKX7.0/18G-8SS | Wainwright | 18 | 2017.10.15 | 2018.10.14 |
| trun table | EM | SC100_1 | 60531 | N/A | N/A |
| Antnna mast | EM | SC100 | N/A | N/A | N/A |

Equipment with a calibration date of "NCR" shown in this list was not used to make direct calibrated measurements.

## 5 TEST ITEMS

### 5.1 CONDUCTED OUTPUT POWER

## Test overview

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.

## Test procedures

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

Test setup


### 5.2 PEAK TO AVERAGE RATIO

## TEST OVERVIEW

According to $\S 24.232(\mathrm{~d})$, power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of $\S 24.51$. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db .

## TEST PROCEDURES

1. The testing follows fcckdb 971168 v 03 r 01 section
2. The eut was connected to the and peak and av system simulator\& spectrum analysis reads
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis

## TEST SETUP



### 5.3 TRANSMITTER RADIATED POWER (EIRP/ERP) <br> TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1 GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1 GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

## TEST PROCEDURE

1. The testing follows FCC KDB 971168 D01 Section 5.2.1. (for CDMA/WCDMA), and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3 -orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according
to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and
then a known power from S.G. was applied into the dipole antenna through a Tx cable, and
then recorded the maximum Analyzer reading through raised and lowered the test antenna.
The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer
reading. Then the EUT's EIRP/ERP was calculated with the correction factor,
ERP/EIRP = P.SG + GT - LC
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMe as, typically dBW or dBm);
PMeas $(\mathrm{PK})=$ measured transmitter output power or PSD, in dBm or dBW ;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
$\mathrm{LC}=$ signal attenuation in the connecting cable between the transmitter and antenna, in dB .

### 5.4 OCCUPIED BANDWIDTH

## TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.
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.
All modes of operation were investigated and the worst case configuration results are reported in this section.

## TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the $99 \%$ occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW $=1-5 \%$ of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector $=$ Peak
5. Trace mode = max hold
6. Sweep = auto couple
7.The trace was allowed to stabilize
7. If necessary, steps $2-7$ were repeated after changing the RBW such that it would be within $1-5 \%$ of the $99 \%$ occupied bandwidth observed in Step 7

## TEST SETUP



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### 5.5 FREQUENCY STABILITY <br> Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:
a.) Temperature: The temperature is varied from $-30^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ in $10^{\circ} \mathrm{C}$ increments using an environmental chamber.
b.) Primary Supply Voltage: The primary supply voltage is varied from $85 \%$ to $115 \%$ of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.
For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025 \%$ ( $\pm 2.5$ ppm ) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

## Test Procedure

## Temperature Variation

1. The testing follows fcckdb 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to $-30^{\circ} \mathrm{C}$ and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in $10^{\circ} \mathrm{C}$ steps up to $50^{\circ} \mathrm{C}$. 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.
Voltage Variation
5. The testing follows FCC KDB 971168 D01 Section 9.0.
6. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ} \mathrm{C}$ and connected with the system simulator.
7. The power supply voltage to the EUT was varied from $85 \%$ to $115 \%$ of the nominal value measured at the input to the EUT.
8. The variation in frequency was measured for the worst case.

## TEST SETUP



### 5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS <br> Test Overview

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 $43+10 \log (P) d B$.
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

## Test procedure

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43+10 \log (P) d B$ below the transmitter power $P($ Watts $)$
$=P(W)-[43+10 \log (P)](d B)$
$=[30+10 \log (\mathrm{P})](\mathrm{dBm})-[43+10 \log (\mathrm{P})](\mathrm{dB})$
$=-13 \mathrm{dBm}$.

## Test Setup



### 5.7 BAND EDGE

## OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
The minimum permissible attenuation level of any spurious emission is $43+\log 10$ ( $\mathrm{P}[\mathrm{Watts}]$ ), where P is the transmitter power in Watts.

## TEST PROCEDURE

1.The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.5.
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. 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.
5. The band edges of low and high channels for the highest RF powers were measured.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7.The limit line is derived from $43+10 \log (P) d B$ below the transmitter power $P($ Watts $)$
$=P(W)-[43+10 \log (P)](d B)$
$=[30+10 \log (\mathrm{P})](\mathrm{dBm})-[43+10 \log (\mathrm{P})](\mathrm{dB})$
$=-13 \mathrm{dBm}$.

## TEST SETUP



### 5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

## Test overview

Radiated spurious emissions measurements are performed using the substitution method described inANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signalsoperating below 1 GHz are performed using horizontally and vertically polarized tuned dipole antennas.Measurements on signals operating above 1 GHz are performed using vertically and horizontally polarizedhorn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

## Test procedure

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. $\mathrm{RBW}=100 \mathrm{kHz}$ for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
3. VBW $\geq 3 \times$ RBW
4. Span $=1.5$ times the OBW
5.No. of sweep points $>2 \times$ span/RBW
5. Detector $=$ Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize
8. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor $($ in dB$)=$ S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP/ERP was calculated with the correction factor, ERP/EIRP = P.SG + GT - LC
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, t ypically dBW or dBm);
P.SG = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
$\mathrm{LC}=$ signal attenuation in the connecting cable between the transmitter and antenna, in dB.

## TEST SETUP

For radiated test from 30 MHz to 1 GHz


For radiated test from above 1 GHz


APPENDIX A.TESTRESULT A1.CONDUCTED OUTPUT POWER UMTS BAND V

| Mode | Frequency (MHz) | AVG Power |
| :---: | :---: | :---: |
| WCDMA 850 RMC | 826.4 | 23.85 |
|  | 836.6 | 23.75 |
|  | 846.6 | 23.87 |
| HSDPA <br> Subtest 1 | 826.4 | 23.04 |
|  | 836.6 | 23.15 |
|  | 846.6 | 22.90 |
| HSDPA <br> Subtest 2 | 826.4 | 22.62 |
|  | 836.6 | 22.72 |
|  | 846.6 | 22.43 |
| HSDPA <br> Subtest 3 | 826.4 | 22.12 |
|  | 836.6 | 22.27 |
|  | 846.6 | 22.00 |
| HSDPA <br> Subtest 4 | 826.4 | 21.73 |
|  | 836.6 | 21.77 |
|  | 846.6 | 21.57 |
| HSUPA <br> Subtest 1 | 826.4 | 23.02 |
|  | 836.6 | 23.14 |
|  | 846.6 | 22.45 |
| HSUPA <br> Subtest 2 | 826.4 | 22.10 |
|  | 836.6 | 22.15 |
|  | 846.6 | 21.50 |
| HSUPA <br> Subtest 3 | 826.4 | 22.07 |
|  | 836.6 | 21.70 |
|  | 846.6 | 21.07 |
| HSUPA <br> Subtest 4 | 826.4 | 21.63 |
|  | 836.6 | 21.30 |
|  | 846.6 | 20.60 |
| HSUPA <br> Subtest 5 | 826.4 | 20.21 |
|  | 836.6 | 19.88 |
|  | 846.6 | 19.12 |

UMTS BAND II

| Mode | Frequency(MHz) | AVG Power |
| :---: | :---: | :---: |
| WCDMA 1900 RMC | 1852.4 | 23.24 |
|  | 1880 | 23.57 |
|  | 1907.6 | 23.90 |
| HSDPA <br> Subtest 1 | 1852.4 | 22.52 |
|  | 1880 | 23.44 |
|  | 1907.6 | 23.66 |
| HSDPA <br> Subtest 2 | 1852.4 | 22.03 |
|  | 1880 | 23.01 |
|  | 1907.6 | 23.17 |
| HSDPA <br> Subtest 3 | 1852.4 | 21.72 |
|  | 1880 | 22.57 |
|  | 1907.6 | 22.76 |
| HSDPA <br> Subtest 4 | 1852.4 | 21.28 |
|  | 1880 | 22.09 |
|  | 1907.6 | 22.34 |
| HSUPA <br> Subtest 1 | 1852.4 | 22.45 |
|  | 1880 | 23.40 |
|  | 1907.6 | 23.17 |
| HSUPA <br> Subtest 2 | 1852.4 | 21.64 |
|  | 1880 | 22.41 |
|  | 1907.6 | 22.24 |
| HSUPA <br> Subtest 3 | 1852.4 | 21.59 |
|  | 1880 | 22.00 |
|  | 1907.6 | 21.80 |
| HSUPA <br> Subtest 4 | 1852.4 | 21.24 |
|  | 1880 | 21.64 |
|  | 1907.6 | 21.50 |
| HSUPA <br> Subtest 5 | 1852.4 | 19.82 |
|  | 1880 | 20.17 |
|  | 1907.6 | 20.04 |

## UMTS BAND IV

| Mode | Frequency(MHz) | AVG Power |
| :---: | :---: | :---: |
| WCDMA 1900 RMC | 1712.6 | 22.95 |
|  | 1740 | 22.70 |
|  | 1752.4 | 22.78 |
| HSDPA <br> Subtest 1 | 1712.6 | 22.48 |
|  | 1740 | 22.42 |
|  | 1752.4 | 22.08 |
| HSDPA <br> Subtest 2 | 1712.6 | 22.00 |
|  | 1740 | 21.94 |
|  | 1752.4 | 21.66 |
| HSDPA <br> Subtest 3 | 1712.6 | 21.52 |
|  | 1740 | 21.51 |
|  | 1752.4 | 21.29 |
| HSDPA <br> Subtest 4 | 1712.6 | 21.04 |
|  | 1740 | 21.09 |
|  | 1752.4 | 20.79 |
| HSUPA <br> Subtest 1 | 1712.6 | 22.40 |
|  | 1740 | 22.38 |
|  | 1752.4 | 21.67 |
| HSUPA <br> Subtest 2 | 1712.6 | 21.55 |
|  | 1740 | 21.47 |
|  | 1752.4 | 20.70 |
| HSUPA <br> Subtest 3 | 1712.6 | 21.47 |
|  | 1740 | 21.00 |
|  | 1752.4 | 20.28 |
| HSUPA <br> Subtest 4 | 1712.6 | 21.07 |
|  | 1740 | 20.66 |
|  | 1752.4 | 19.87 |
| HSUPA <br> Subtest 5 | 1712.6 | 19.63 |
|  | 1740 | 19.20 |
|  | 1752.4 | 18.41 |

A2. PEAK-TO-AVERAGE RADIO

| Mode | Frequency <br> (MHz) | PEAK Power (dBm) | AVG Power (dBm) | $\begin{aligned} & \hline \text { PAR } \\ & \text { (dB) } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| WCDMA 850 RMC | 826.4 | 26.77 | 23.85 | 2.92 |
|  | 836.6 | 26.58 | 23.75 | 2.83 |
|  | 846.6 | 26.68 | 23.87 | 2.81 |
| HSDPA 850 | 826.4 | 25.81 | 23.04 | 2.77 |
|  | 836.6 | 25.96 | 23.15 | 2.81 |
|  | 846.6 | 25.83 | 22.90 | 2.93 |
| HSUPA 850 | 826.4 | 25.66 | 23.02 | 2.64 |
|  | 836.6 | 25.81 | 23.14 | 2.67 |
|  | 846.6 | 25.09 | 22.45 | 2.64 |
| WCDMA 1900 RMC | 1852.4 | 25.75 | 23.24 | 2.51 |
|  | 1880 | 26.21 | 23.57 | 2.64 |
|  | 1907.6 | 26.54 | 23.90 | 2.64 |
| HSDPA 1900 | 1852.4 | 25.18 | 22.52 | 2.66 |
|  | 1880 | 26.27 | 23.44 | 2.83 |
|  | 1907.6 | 26.64 | 23.66 | 2.98 |
| HSUPA 1900 | 1852.4 | 25.05 | 22.45 | 2.60 |
|  | 1880 | 26.18 | 23.40 | 2.78 |
|  | 1907.6 | 25.75 | 23.17 | 2.58 |
| WCDMA 1700 RMC | 1712.6 | 25.47 | 22.95 | 2.52 |
|  | 1740 | 25.51 | 22.70 | 2.81 |
|  | 1752.4 | 25.74 | 22.78 | 2.96 |
| HSDPA 1700 | 1712.6 | 25.18 | 22.48 | 2.70 |
|  | 1740 | 25.35 | 22.42 | 2.93 |
|  | 1752.4 | 24.66 | 22.08 | 2.58 |
| HSUPA 1700 | 1712.6 | 25.15 | 22.40 | 2.75 |
|  | 1740 | 25.25 | 22.38 | 2.87 |
|  | 1752.4 | 24.66 | 21.67 | 2.99 |

A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

| Radiated Power (ERP) for WCDMA Band V |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mode | Frequency | Result |  |  |  |  | Conclusion |
|  |  | S G. <br> Level <br> (dBm) | Cable loss | Gain <br> (dBi) | PMeas E.R.P <br> (dBm) | Polarization Of Max.ERP |  |
| Band V | 826.4 | 15.52 | 0.44 | 6.5 | 21.58 | Horizontal | Pass |
|  | 826.4 | 17.26 | 0.44 | 6.5 | 23.32 | Vertical | Pass |
|  | 835 | 15.47 | 0.45 | 6.5 | 21.52 | Horizontal | Pass |
|  | 835 | 17.20 | 0.45 | 6.5 | 23.25 | Vertical | Pass |
|  | 846.4 | 15.48 | 0.46 | 6.5 | 21.52 | Horizontal | Pass |
|  | 846.4 | 17.32 | 0.46 | 6.5 | 23.36 | Vertical | Pass |


| Radiated Power (EIRP) for WCDMA Band II |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mode | Frequency | Result |  |  |  |  | Conclusion |
|  |  | S G. <br> Level <br> (dBm) | Cable loss | Gain <br> (dBi) | $\begin{gathered} \text { PMeas } \\ \text { E.I.R.P. }(\mathrm{dBm}) \end{gathered}$ | Polarization Of Max.EIRP |  |
| Band II | 1852.4 | 12.85 | 2.41 | 10.35 | 20.79 | Horizontal | Pass |
|  | 1852.4 | 14.77 | 2.41 | 10.35 | 22.71 | Vertical | Pass |
|  | 1880 | 13.16 | 2.42 | 10.35 | 21.09 | Horizontal | Pass |
|  | 1880 | 15.12 | 2.42 | 10.35 | 23.05 | Vertical | Pass |
|  | 1907.4 | 13.68 | 2.43 | 10.35 | 21.6 | Horizontal | Pass |
|  | 1907.4 | 15.43 | 2.43 | 10.35 | 23.35 | Vertical | Pass |


| Radiated Power (EIRP) for WCDMA Band IV |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mode | Frequency | Result |  |  |  |  | Conclusion |
|  |  | S G. <br> Level <br> (dBm) | Cable loss | Gain <br> (dBi) | PMeas E.I.R.P.(dBm) | Polarization Of Max.EIRP |  |
| Band II | 1712.6 | 12.58 | 2.07 | 10.13 | 20.64 | Horizontal | Pass |
|  | 1712.6 | 14.35 | 2.07 | 10.13 | 22.41 | Vertical | Pass |
|  | 1740 | 12.26 | 2.08 | 10.13 | 20.31 | Horizontal | Pass |
|  | 1740 | 14.15 | 2.08 | 10.13 | 22.2 | Vertical | Pass |
|  | 1752.4 | 12.26 | 2.09 | 10.13 | 20.3 | Horizontal | Pass |
|  | 1752.4 | 14.2 | 2.09 | 10.13 | 22.24 | Vertical | Pass |

A4. OCCUPIED BANDWIDTH (99\% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

| Occupied Bandwidth for UMTS band V |  |  |  |
| :---: | :---: | :---: | :---: |
| Mode | Frequency $(\mathrm{MHz})$ | Occupied Bandwidth <br> $(99 \%)(\mathrm{MHz})$ | Emission Bandwidth <br> $(-26 \mathrm{dBc})(\mathrm{MHz})$ |
| Low Channel | 826.4 | 4.1351 | 4.696 |
| Middle Channel | 836.6 | 4.1264 | 4.696 |
| High Channel | 846.6 | 4.1153 | 4.696 |


| Occupied Bandwidth for UMTS band II |  |  |  |
| :---: | :---: | :---: | :---: |
| Mode | Frequency $(\mathrm{MHz})$ | Occupied Bandwidth <br> $(99 \%)(\mathrm{MHz})$ | Emission Bandwidth <br> $(-26 \mathrm{dBc})(\mathrm{MHz})$ |
| Low Channel | 1852.4 | 4.1281 | 4.696 |
| Middle Channel | 1880 | 4.1166 | 4.687 |
| High Channel | 1907.6 | 4.1125 | 4.667 |


| Occupied Bandwidth for UMTS band IV |  |  |  |
| :---: | :---: | :---: | :---: |
| Mode | Frequency $(\mathrm{MHz})$ | Occupied Bandwidth <br> $(99 \%)(\mathrm{MHz})$ | Emission Bandwidth <br> $(-26 \mathrm{dBc})(\mathrm{MHz})$ |
| Low Channel | 1712.6 | 4.1273 | 4.689 |
| Middle Channel | 1740 | 4.1320 | 4.695 |
| High Channel | 1752.4 | 4.1283 | 4.716 |

UMTS BAND V CH 4132


UMTS BAND V CH 4183


UMTS BAND V CH 4233


UMTS BAND II CH 9262


UMTS BAND II CH 9400


UMTS BAND II CH 9538


UMTS BAND IV CH 9262


UMTS BAND IV CH 9400


UMTS BAND IV CH 9538


## A5.FREQUENCY STABILITY

| WCDMA V Middle Channel/836.6MHz |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Temperature $\left({ }^{\circ} \mathrm{C}\right)$ | Voltage <br> (Volt) | Freq. Dev. <br> (Hz) | Freq. Dev. (ppm) | Limit | Result |
| 50 |  | 34.91 | 0.042 |  |  |
| 40 |  | 22.73 | 0.027 |  |  |
| 30 |  | 18.21 | 0.022 |  |  |
| 20 |  | 15.59 | 0.019 |  |  |
| 10 | Normal Voltage | 35.83 | 0.043 |  |  |
| 0 |  | 27.52 | 0.033 | 2.5ppm | PASS |
| -10 |  | 33.64 | 0.040 |  |  |
| -20 |  | 14.43 | 0.017 |  |  |
| -30 |  | 28.37 | 0.034 |  |  |
| 25 | Maximum Voltage | 29.83 | 0.036 |  |  |
| 25 | BEP | 23.61 | 0.028 |  |  |

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

| WCDMA II Middle Channel/ $\mathbf{1 8 8 0 \mathrm { MHz }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Temperature ( ${ }^{\circ} \mathrm{C}$ ) | Voltage (Volt) | Freq. Dev. $(\mathrm{Hz})$ | Freq. Dev. (ppm) | Limit | Result |
| 50 |  | 24.96 | 0.013 |  |  |
| 40 |  | 15.98 | 0.009 |  |  |
| 30 |  | 35.94 | 0.019 |  |  |
| 20 |  | 14.26 | 0.008 |  |  |
| 10 | Normal Voltage | 28.73 | 0.015 | Within Au- |  |
| 0 |  | 29.14 | 0.016 | thorized | PASS |
| -10 |  | 22.52 | 0.012 | Band |  |
| -20 |  | 33.33 | 0.018 |  |  |
| -30 |  | 12.26 | 0.007 |  |  |
| 25 | Maximum Voltage | 17.50 | 0.009 |  |  |
| 25 | BEP | 30.73 | 0.016 |  |  |

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.
Shenzhen STS Test Services Co., Ltd.

## WCDMA IV Middle Channel/1740MHz

| Temperature ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 50 | Normal Voltage | 17.18 | 0.009 | Within Authorized Band | PASS |
| 40 |  | 28.61 | 0.015 |  |  |
| 30 |  | 18.82 | 0.010 |  |  |
| 20 |  | 30.48 | 0.016 |  |  |
| 10 |  | 20.54 | 0.011 |  |  |
| 0 |  | 20.25 | 0.011 |  |  |
| -10 |  | 36.27 | 0.019 |  |  |
| -20 |  | 30.72 | 0.016 |  |  |
| -30 |  | 35.74 | 0.019 |  |  |
| 25 | Maximum Voltage | 22.90 | 0.012 |  |  |
| 25 | BEP | 31.47 | 0.017 |  |  |

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

## A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

## WCDMA Band V (RMC 12.2Kbps)

Lowest Channel


Middle Channel


Highest Channel


## WCDMA Band II (RMC 12.2Kbps)(30M-20G)

Lowest Channel


Middle Channel


Highest Channel


## WCDMA Band IV (RMC 12.2Kbps)(30M-20G)

Lowest Channel


Middle Channel


Highest Channel


WCDMA Band VRMC 12.2Kbps
Lowest Band Edge


Highest Band Edge


WCDMA Band IIRMC 12.2Kbps
Lowest Band Edge


Highest Band Edge


## WCDMA Band IVRMC 12.2Kbps

Lowest Band Edge


Highest Band Edge


A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT UMTS band V(30-9000)MHz

| WCDMA Band V: (30-9000)MHz |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The wost testresults channel $4132 / 826.4 \mathrm{MHz}$ |  |  |  |  |  |  |  |
| Frequency(MHz) | $\begin{gathered} \text { S G.Lev } \\ (\mathrm{dBm}) \end{gathered}$ | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 1652.12 | -40.16 | 9.40 | 4.75 | -35.51 | -13.00 | -22.51 | H |
| 2479.66 | -39.82 | 10.60 | 8.39 | -37.61 | -13.00 | -24.61 | H |
| 3305.73 | -32.19 | 12.00 | 11.79 | -31.98 | -13.00 | -18.98 | H |
| 1652.08 | -43.45 | 9.40 | 4.75 | -38.80 | -13.00 | -25.80 | V |
| 2479.24 | -44.05 | 10.60 | 8.39 | -41.84 | -13.00 | -28.84 | V |
| 3305.64 | -42.55 | 12.00 | 11.79 | -42.34 | -13.00 | -29.34 | V |
| The Worst Test Results Channel 4183/836.6MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | S G.Lev <br> (dBm) | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 1673.06 | -40.78 | 9.50 | 4.76 | -36.04 | -13.00 | -23.04 | H |
| 2509.67 | -39.38 | 10.70 | 8.40 | -37.08 | -13.00 | -24.08 | H |
| 3346.28 | -31.02 | 12.20 | 11.80 | -30.62 | -13.00 | -17.62 | H |
| 1672.98 | -43.57 | 9.40 | 4.75 | -38.92 | -13.00 | -25.92 | V |
| 2509.82 | -44.35 | 10.60 | 8.39 | -42.14 | -13.00 | -29.14 | V |
| 3346.08 | -43.87 | 12.20 | 11.82 | -43.49 | -13.00 | -30.49 | V |
| The Worst Test Results Channel 4233/846.6MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | S G.Lev <br> (dBm) | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 1693.38 | -40.52 | 9.60 | 4.77 | -35.69 | -13.00 | -22.69 | H |
| 2539.40 | -39.16 | 10.80 | 8.50 | -36.86 | -13.00 | -23.86 | H |
| 3386.31 | -32.33 | 12.50 | 11.90 | -31.73 | -13.00 | -18.73 | H |
| 1693.63 | -43.27 | 9.60 | 4.77 | -38.44 | -13.00 | -25.44 | V |
| 2539.07 | -45.21 | 10.80 | 8.50 | -42.91 | -13.00 | -29.91 | V |
| 3385.93 | -43.86 | 12.50 | 11.90 | -43.26 | -13.00 | -30.26 | V |

Note: (1) Below 30 MHz no Spurious found is the worst condition.
(2) Above 3 GHz amplitude of spurious emissions which are attenuated by more than 20Db below the permissible value

UMTS band II(30-20000)MHz

| WCDMA Band II: (30-20000)MHz |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The Worst Test Results for Channel $9262 / 1852.4 \mathrm{MHz}$ |  |  |  |  |  |  |  |
| Frequency(MHz) | $\begin{gathered} \text { S G.Lev } \\ (\mathrm{dBm}) \end{gathered}$ | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3704.19 | -34.33 | 12.60 | 12.93 | -34.66 | -13.00 | -21.66 | H |
| 5557.56 | -34.88 | 13.10 | 17.11 | -38.89 | -13.00 | -25.89 | H |
| 7409.58 | -32.86 | 11.50 | 22.20 | -43.56 | -13.00 | -30.56 | H |
| 3704.48 | -34.84 | 12.60 | 12.93 | -35.17 | -13.00 | -22.17 | V |
| 5557.62 | -34.66 | 13.10 | 17.11 | -38.67 | -13.00 | -25.67 | V |
| 7409.63 | -32.58 | 11.50 | 22.20 | -43.28 | -13.00 | -30.28 | V |
| The Worst Test Results for Channel 9400/1880MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | $\begin{gathered} \text { S G.Lev } \\ (\mathrm{dBm}) \end{gathered}$ | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3760.11 | -34.30 | 12.60 | 12.93 | -34.63 | -13.00 | -21.63 | H |
| 5640.28 | -34.02 | 13.10 | 17.11 | -38.03 | -13.00 | -25.03 | H |
| 7520.28 | -33.58 | 11.50 | 22.20 | -44.28 | -13.00 | -31.28 | H |
| 3760.05 | -35.89 | 12.60 | 12.93 | -36.22 | -13.00 | -23.22 | V |
| 5640.30 | -34.20 | 13.10 | 17.11 | -38.21 | -13.00 | -25.21 | V |
| 7520.16 | -31.97 | 11.50 | 22.20 | -42.67 | -13.00 | -29.67 | V |
| The Worst Test Results for Channel 9538/1907.6MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | $\begin{gathered} \text { S G.Lev } \\ (\mathrm{dBm}) \end{gathered}$ | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3815.65 | -34.37 | 12.60 | 12.93 | -34.70 | -13.00 | -21.70 | H |
| 5722.22 | -34.78 | 13.10 | 17.11 | -38.79 | -13.00 | -25.79 | H |
| 7630.27 | -32.93 | 11.50 | 22.20 | -43.63 | -13.00 | -30.63 | H |
| 3815.40 | -35.47 | 12.60 | 12.93 | -35.80 | -13.00 | -22.80 | V |
| 5722.17 | -35.15 | 13.10 | 17.11 | -39.16 | -13.00 | -26.16 | V |
| 7630.25 | -32.18 | 11.50 | 22.20 | -42.88 | -13.00 | -29.88 | V |

Note: (1) Below 30 MHz no Spurious found is the worst condition.
(2) Above 6 GHz amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value

UMTS band IV(30-20000)MHz

| WCDMA Band IV: (30-20000)MHz |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The Worst Test Results for Channel $9262 / 1712.6 \mathrm{MHz}$ |  |  |  |  |  |  |  |
| Frequency(MHz) | S G.Lev (dBm) | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3424.71 | -34.85 | 12.90 | 12.05 | -34.00 | -13.00 | -21.00 | H |
| 5137.79 | -35.41 | 12.80 | 16.27 | -38.88 | -13.00 | -25.88 | H |
| 6850.20 | -32.26 | 12.30 | 20.13 | -40.09 | -13.00 | -27.09 | H |
| 3425.07 | -35.93 | 12.90 | 12.05 | -35.08 | -13.00 | -22.08 | V |
| 5137.58 | -35.16 | 12.80 | 16.27 | -38.63 | -13.00 | -25.63 | V |
| 6850.27 | -32.56 | 12.30 | 20.13 | -40.39 | -13.00 | -27.39 | V |
| The Worst Test Results for Channel 9400/1740MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | S G.Lev <br> (dBm) | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3479.95 | -34.20 | 12.90 | 12.05 | -33.35 | -13.00 | -20.35 | H |
| 5219.76 | -35.47 | 12.80 | 16.27 | -38.94 | -13.00 | -25.94 | H |
| 6959.52 | -32.63 | 12.30 | 20.13 | -40.46 | -13.00 | -27.46 | H |
| 3479.53 | -35.84 | 12.90 | 12.05 | -34.99 | -13.00 | -21.99 | V |
| 5219.78 | -34.92 | 12.80 | 16.27 | -38.39 | -13.00 | -25.39 | V |
| 6959.78 | -31.98 | 12.30 | 20.13 | -39.81 | -13.00 | -26.81 | V |
| The Worst Test Results for Channel 9538/1752.4MHz |  |  |  |  |  |  |  |
| Frequency(MHz) | S G.Lev (dBm) | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
|  |  |  |  | (dBm) | (dBm) | (dB) |  |
| 3504.45 | -34.63 | 12.90 | 12.05 | -33.78 | -13.00 | -20.78 | H |
| 5256.89 | -34.30 | 12.80 | 16.27 | -37.77 | -13.00 | -24.77 | H |
| 7009.10 | -32.39 | 12.30 | 20.13 | -40.22 | -13.00 | -27.22 | H |
| 3504.34 | -35.73 | 12.90 | 12.05 | -34.88 | -13.00 | -21.88 | V |
| 5256.85 | -34.40 | 12.80 | 16.27 | -37.87 | -13.00 | -24.87 | V |
| 7009.37 | -32.37 | 12.30 | 20.13 | -40.20 | -13.00 | -27.20 | V |

Note: (1) Below 30 MHz no Spurious found is the worst condition.
(2) Above 6 GHz amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value

RADIATED SPURIOUS EMISSION

$※ ※ ※ ※ ※ E N D ~ O F ~ T H E ~ R E P O R T ※ ※ ※ ※ ※$


[^0]:    Spectrum Analyzer

