



Test Report

Product Name : TU25 USB Modem
Model No. : TU25
FCC ID. : Q78-ZTE-TU25

Applicant : ZTE Corporation
Address : ZTE Plaza, Keji Road South, Hi-tech Industrial
Park, Nanshan District, Shenzhen, P.R.China

Date of Receipt : 2008/02/18
Issued Date : 2008/9/25
Report No. : 082185R-HPUSP09V01
Version : V2.0

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

Test Report Certification

Issued Date : 2008/09/25

Report No. : 082185R-HPUSP09V01



Product Name : TU25 USB Modem
Applicant : ZTE Corporation
Address : ZTE Plaza, Keji Road South, Hi-tech Industrial Park,
Nanshan District, Shenzhen, P.R.China
Manufacturer : ZTE Corporation
Model No. : TU25
FCC ID. : Q78-ZTE-TU25
Rated Voltage : AC 120V/60Hz
EUT Voltage : DC 5V
Trade Name : ZTE
Applicable Standard : FCC CFR Title 47 Part 2 and Part 27 Subpart M
Test Result : Complied

The test results relate only to the samples tested.

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Approved By : Roy Wang
(Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	TU25 USB Modem
Trade Name	ZTE
Model No.	TU25
Frequency Range	2.499 GHz to 2.687 GHz
Modulation Type	QPSK, 16QAM,
Modulation Technology	OFDMA
Channel Bandwidth	5MHz, 10MHz
Antenna Gain	0 dBi peak
Channel Control	AUTO
Antenna Type	Monopole
Antenna Diversity	1xTx 2xRx

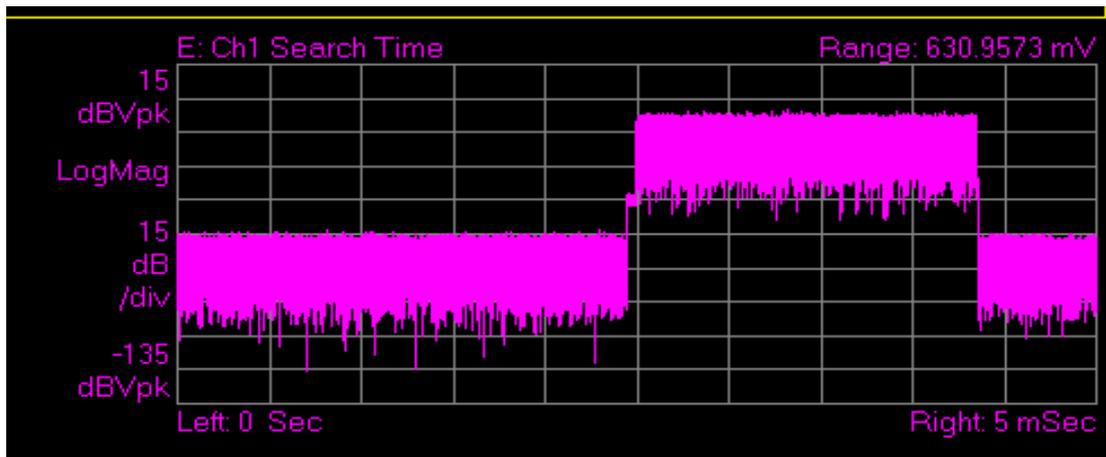
Note:

1. This device is a Wireless Broadband USB Modem which includes a 2.6GHz receiving function, and 2.6GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 27 Subpart M for OFDMA digital devices.
3. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and shown on the test report.
4. This device is a composite device in accordance with Part 15 regulations. The receiver function was measured and a test report was made, which report number is 082185R-RFUSP01V02 under Declaration of Conformity.

1.2. Operational Description

The ZTE TU25 device is 2.6 GHz WiMAX transceiver in a USB dongle configuration using Beceem chipset which supports 1Tx and 2Rx for this device. Only one antenna is used for both transmitting and receiving signal and the other antenna is strictly used for RX diversity. Its uplink is capable of both 10 MHz and 5 MHz bandwidths. For the 10 MHz bandwidth, it has 35 sub-channels structured from 1024 subcarriers; 184 are used as spare/safeguard subcarriers, leaving 840 available for transmission. From this, 560 subcarriers for data transmission with 280 subcarriers intended for pilot use. For the 5 MHz bandwidth, it contains 17 sub-channels using 512 subcarriers; 104 subcarriers as spare/safeguard subcarriers, 272 for data transmission, and 136 for pilot. The up-link sub-frame is triggered by an Allocation Start Time contained in the information of UL-MAP. This information specifies the starting times of the Up-link and Down-link frames. In any UL sub-frame, the duty factor ranging and bandwidth information is used to ensure optimal system operation. In normal device transmission the device will transmit control signaling at the first 3 up-link symbols and then use the rest of the up-link symbols for data traffic bursts in the uplink sub-frame. Since the first 3 symbols are also used for ranging detection purposes and are shared among other device users, its transmitting power is much smaller than the data burst symbol power. During the testing modes the first 3 symbols are also kept in reduced power level and the data traffic bursts are always running at the maximum output power level. In the real usage, the data burst power will be adjusted according to the signal strength of the communication. In this way, by using the test mode arrangement we are transmitting at a worst case RF level." [Maximum possible would be having all 18 symbols at full power.]

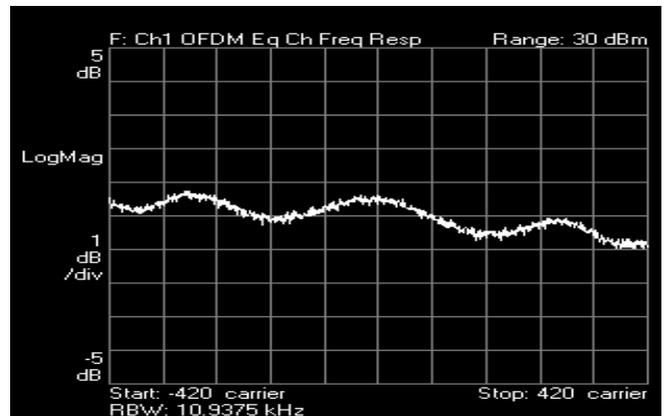
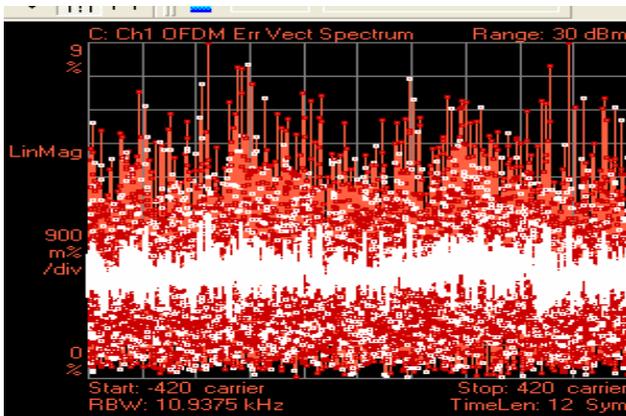
Sprint Nextel and other US WiMAX operators in the BRS/EBS band have agreed to operate with 29 OFDMA symbols downstream and 18 symbols upstream. US operators are working through the Wireless Communications Association International (WCA) to finalize a US best practices document including this ratio. The proposal has been approved at the WCA working group level and is awaiting final approval by the Board of Directors. There are 48 OFDMA symbols in a 5 ms frame. Thus, the maximum duty cycle – assuming a user device is transmitting constantly would seem to be 18/48 or 37.5%. Taking into consideration the first 3 up-link symbols are running at reduced power level, the actual duty factor would be more like 15/48 or 31.5%. In practice, it would be expected that individual devices would typically operate with an even lower duty cycle since much of the time as the wireless device will be waiting for the computer or other device to have data to be transmitted upstream.



The frame signals with a nominal duty factor of 37.5%.

US WiMAX operators in the BRS/EBS band, including Sprint Nextel, plan to operate user devices only with PUSC (and not FUSC) in order to leave capacity to serve multiple users simultaneous. Thus testing of devices under FUSC conditions would not represent typical use of these devices.

PUSC with 840 sub-carriers for 10 MHz Bandwidth



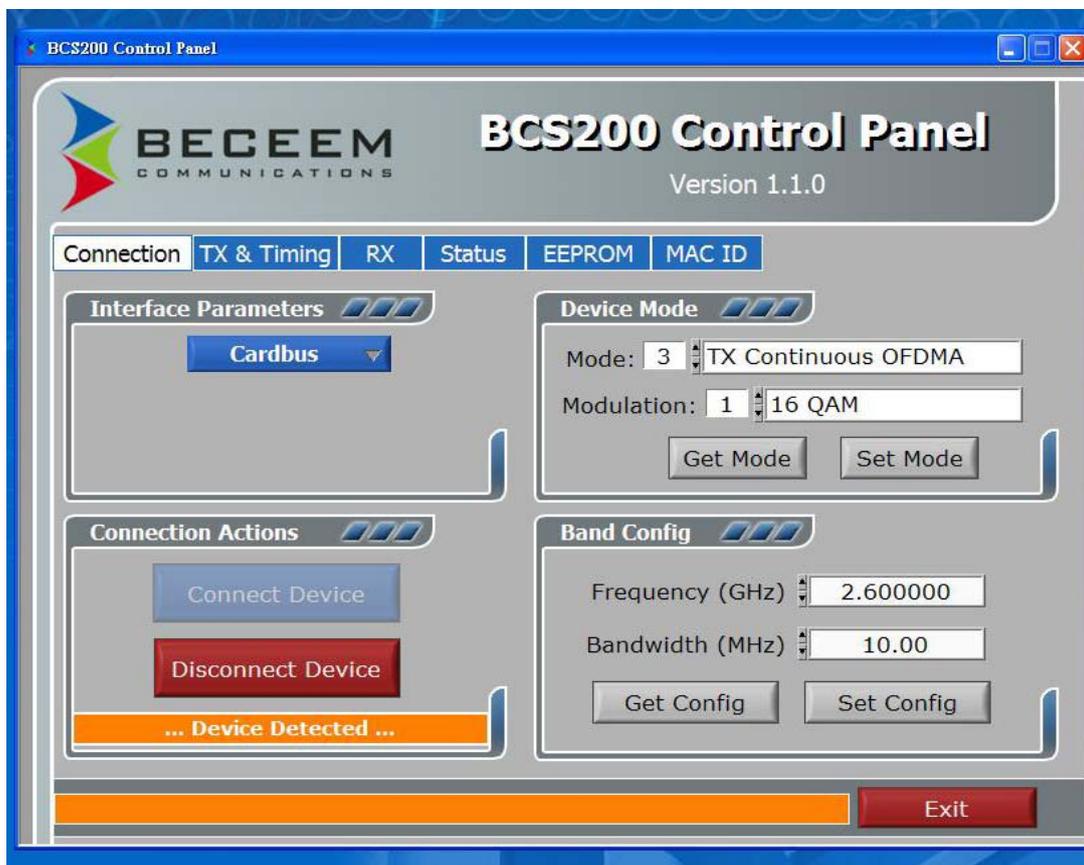
1.3. Test Mode

EUT was being controlled by BECEEM chipset driver control panel software which allows the working modes being chosen in between QPSK and 16QAM; Transmission bandwidth being chosen in between 5MHz and 10 MHz. Under the “Tx continuous OFDMA’ mode the device is working with 100% duty factor, continuously transmitting Up-link signal at a periodically stable transmission mode. All the tests were done under this manufacturer chipset driver control panel.

There are four possible mode configurations under present software driver control panel as follows:

5MHz QPSK, 10MHz QPSK, 5MHz 16QAM and 10MHz 16QAM.

The channel frequency can be chosen through this control software.



QuieTek has evaluated all four possible mode, which was shown in this test report and defined as:

Pre-Test Mode	
EMI	Mode 1: Transmit (5MHz Bandwidth) Mode 2: Transmit (10MHz Bandwidth)
Final Test Model	
TX	Mode 1: Transmit (5MHz Bandwidth) QPSK, 16QAM Mode 2: Transmit (10MHz Bandwidth) QPSK, 16QAM

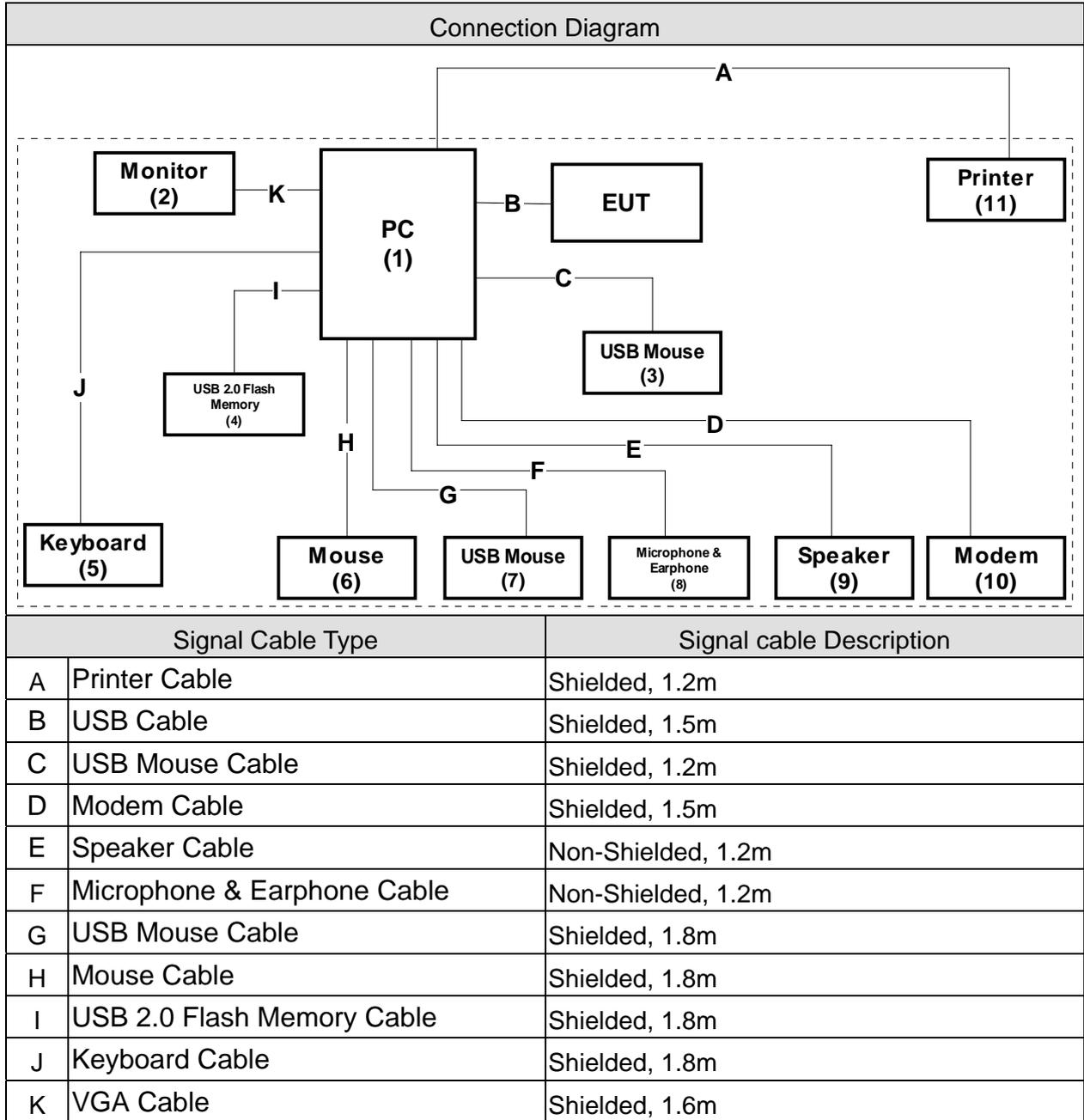
Emission	Mode 1	Mode 2
Peak Output Power	Yes	Yes
Occupied Bandwidth	Yes	Yes
Conducted Spurious Emission	Yes	Yes
Radiated Spurious Emission	Yes	Yes
Frequency Stability Over Temperatures Variation	Yes	Yes
Frequency Stability Over Voltage Variation	Yes	Yes
AC Conducted Emission	No	Yes

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 PC	HP	DL109A#AB0	SGH324022G	DoC	Non-Shielded, 1.8m
2 Monitor	CHI MEI	A170E1-09	3UC120955SA1236	DoC	Non-Shielded, 1.8m
3 USB Mouse	Logitech	M-UV83	LZE35005975	DoC	--
4 USB 2.0 Flash Memory	Ridata	PEN000-DP065-37	N/A	DoC	--
5 Keyboard	Logitech	Y-SM46	SY525U18098	DoC	--
6 Mouse	Logitech	M-SBF83	HCA52200318	DoC	--
7 USB Mouse	Logitech	M-UV83	LZE35005975	DoC	--
8 Microphone & Earphone	TOKTO	SX-MI	N/A	DoC	--
9 Speaker	IBM	Speaker (NW)	0205	DoC	--
10 Modem	ACEEX	DM-1414	980033035	DoC	Non-Shielded, 1.6m
11 Printer	HP	16410A	SG935131NN	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5
2	Turn on the power of all equipment
3	Boot the PC from Hard Disk
4	Data will transmit continuously.
5	All the peripheral will be retrieved during the test
6	Repeat the above procedure (4) to (5)

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 2.1046 and PART 27.50(h)(2) Peak Output Power	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1049 and PART 27.53(l)(6) Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1051 and PART 27.53(l)(4)(6) Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1051 and PART 27.53(l)(4)(6) Conducted Spurious Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1053 and PART 27.53(l)(4)(6) Radiated Spurious Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1055(a)(l) and PART 27.54 Frequency Stability Over Temperature Variation	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1055(d) and PART 27.54 Frequency Stability Over Voltage Variation	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.207 AC Conducted Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2008



Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Peak Output Power

2.1. Test Equipment

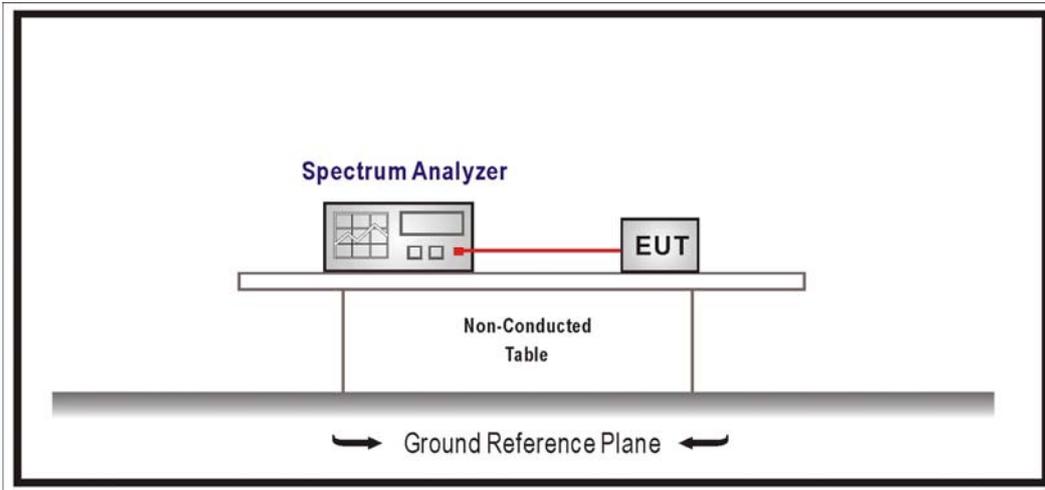
The following test equipments are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. /Serial No.	Last Cal.
1	Meter		Anritsu	ML2495A/6K00003357	March, 2008
2	Power Sensor		Anritsu	MA2491A/034457	March, 2008
3	Spectrum Analyzer		R&S	FSP40 /100005	
4.	No.1 OATS				Sep., 2007
RF Radiated Measurement:					
Item		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2008
3		Loop Antenna	R & S	HFH2-Z2 833799/004	Sep., 2007
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2007
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2007
7		No.1 OATS			Sep., 2007

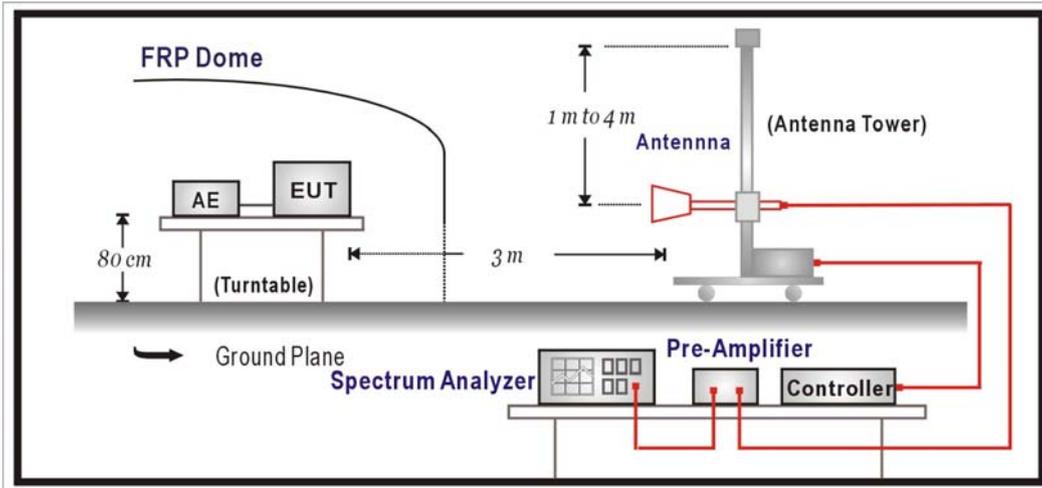
- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. Mark "X" test instruments are used to measure the final test results.

2.2. Test Setup

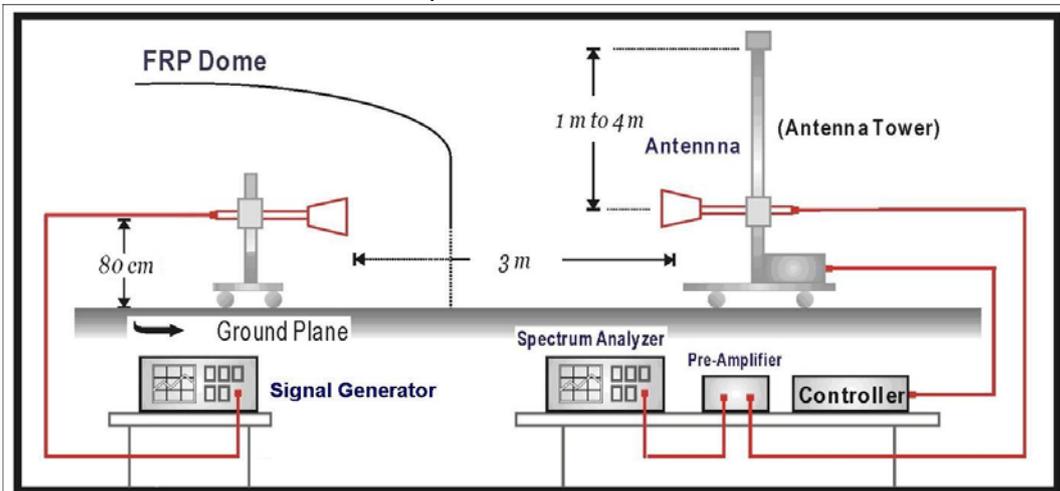
RF Conducted Measurement:



RF Radiated Measurement:



Substitution Measurement Setup:



2.3. Limits

(1) Main, Booster and Base Stations: Maximum E.I.R.P shall not exceed 33 dBW + 10log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.

(2) Mobile and Other User Stations: 2.0 Watts EIRP.

2.4. Test Procedure

The conducted peak output power is measured using R&S Spectrum Analyzer. The EUT was set up for the rated peak power. All measurements were done at 3 channels: low, middle and high operational frequency range.

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

$$E.I.R.P = \text{Reading Level} + \text{Correct Factor} = S.G. - \text{Cable Loss} + \text{Antenna Gain}$$

2.5. Uncertainty

The measurement uncertainty is defined as ±1.27 dB

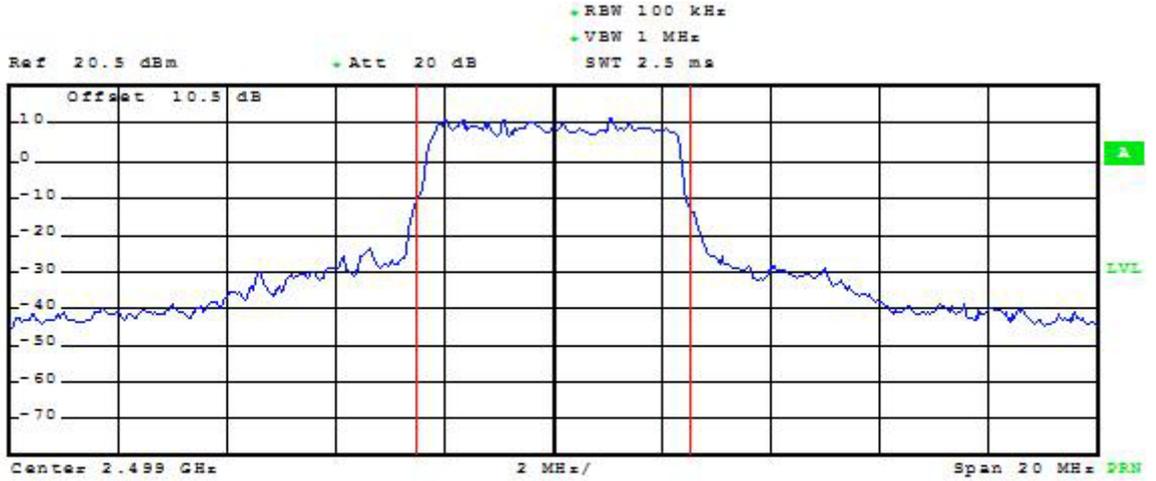
2.6. Test Result

Product	TU25 USB Modem		
Test Item	Peak Output Power		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

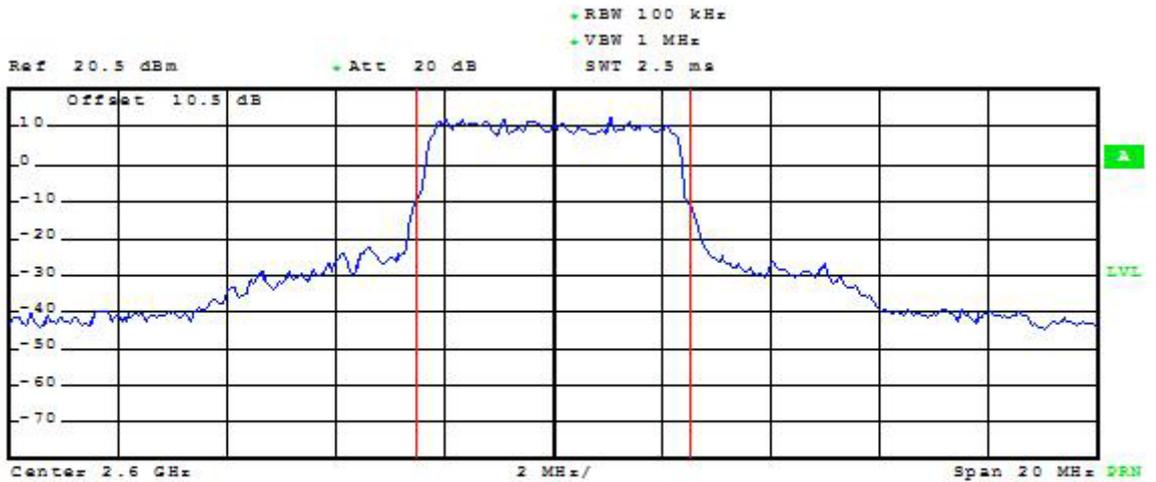
Conducted Power (QPSK) 5MHz Bandwidth			
Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low	2499	25.55	33
Middle	2600	26.55	33
High	2687	27.56	33

Conducted Power (16 QAM) 5MHz Bandwidth			
Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low	2499	23.72	33
Middle	2600	25.22	33
High	2687	26.82	33

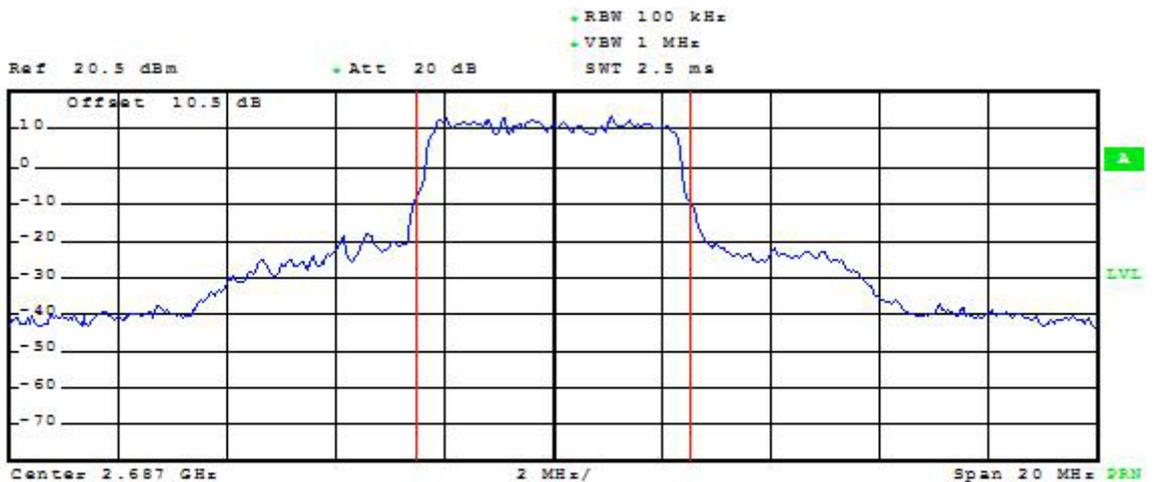
Conducted Power (QPSK)-5MHz Bandwidth



Tx Channel Bandwidth 5 MHz Power 25.55 dBm



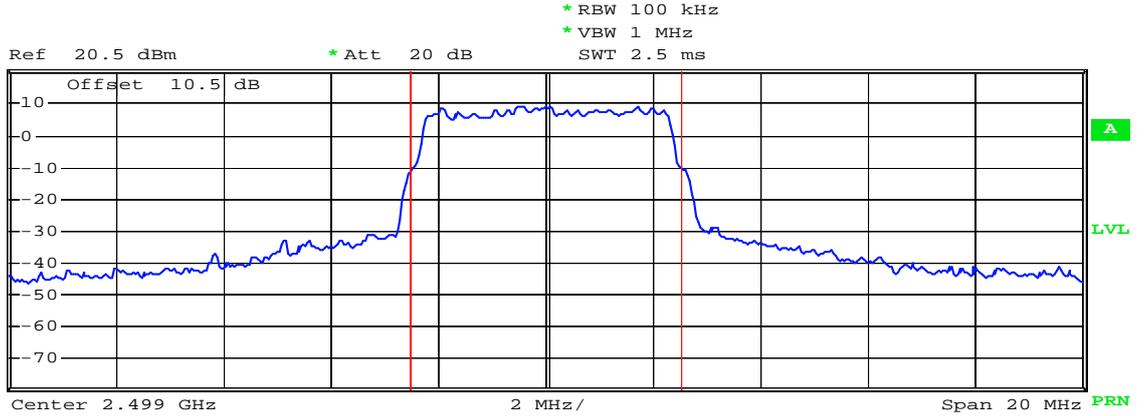
Tx Channel Bandwidth 5 MHz Power 26.55 dBm



Tx Channel Bandwidth 5 MHz Power 27.56 dBm

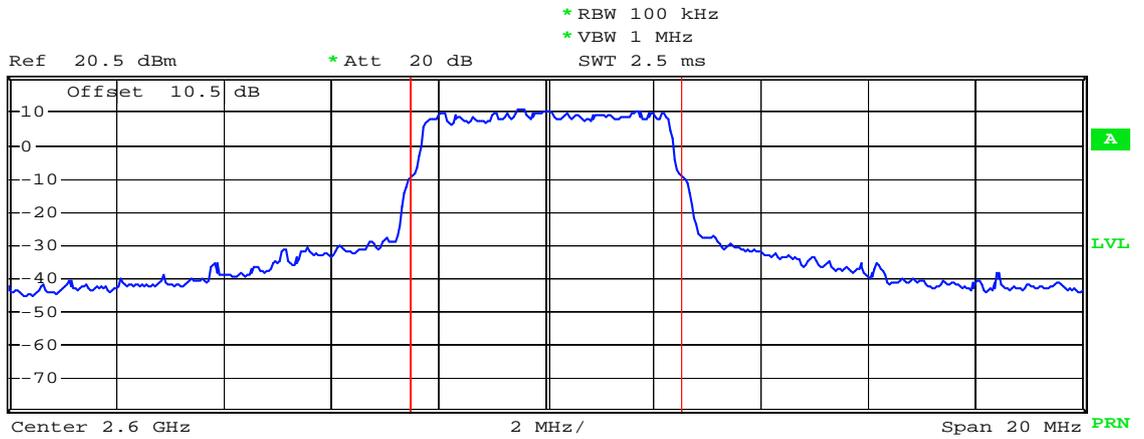
C

Conducted Power (16QAM)-5MHz Bandwidth



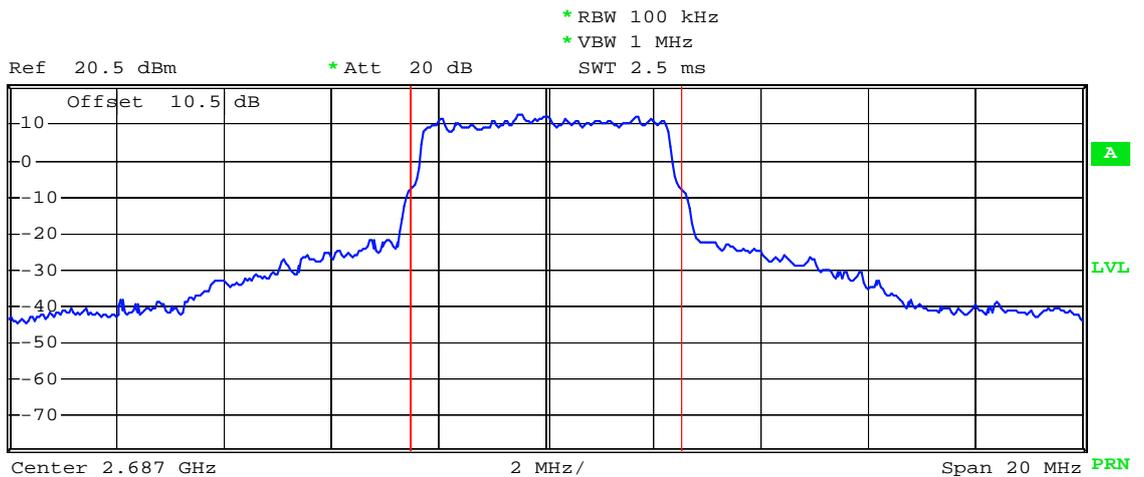
1 PK
MAXH

Tx Channel
 Bandwidth 5 MHz Power 23.72 dBm



1 PK
MAXH

Tx Channel
 Bandwidth 5 MHz Power 25.22 dBm



1 PK
MAXH

Tx Channel
 Bandwidth 5 MHz Power 26.82 dBm

Radiated Peak Power

E.I.R.P Power (QPSK) 5MHz Bandwidth				
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)
Low	2499	42.509	-17.960	24.549
Middle	2600	40.742	-14.851	25.891
High	2687	41.408	-14.520	26.888

E.I.R.P Power (16QAM) 5MHz Bandwidth				
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)
Low	2499	42.509	-18.543	23.966
Middle	2600	40.742	-15.211	25.531
High	2687	41.408	-15.02	26.388

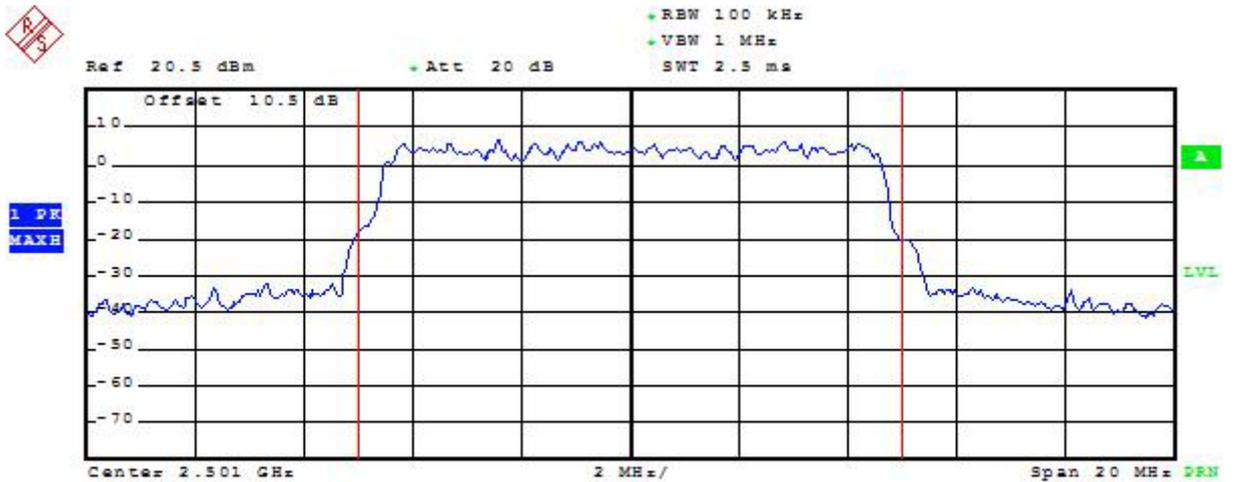
Note: E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Peak Output Power		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

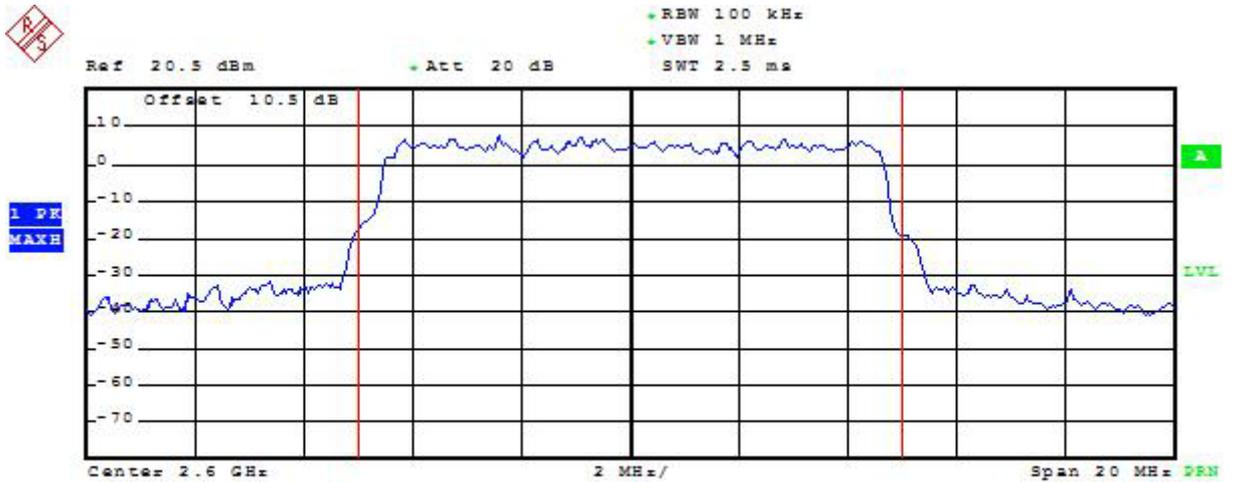
Conducted Power (QPSK) 10MHz Bandwidth			
Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low	2501	23.27	33
Middle	2600	24.20	33
High	2685	25.25	33

Conducted Power (16 QAM) 10MHz Bandwidth			
Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low	2501	22.86	33
Middle	2600	23.93	33
High	2685	24.99	33

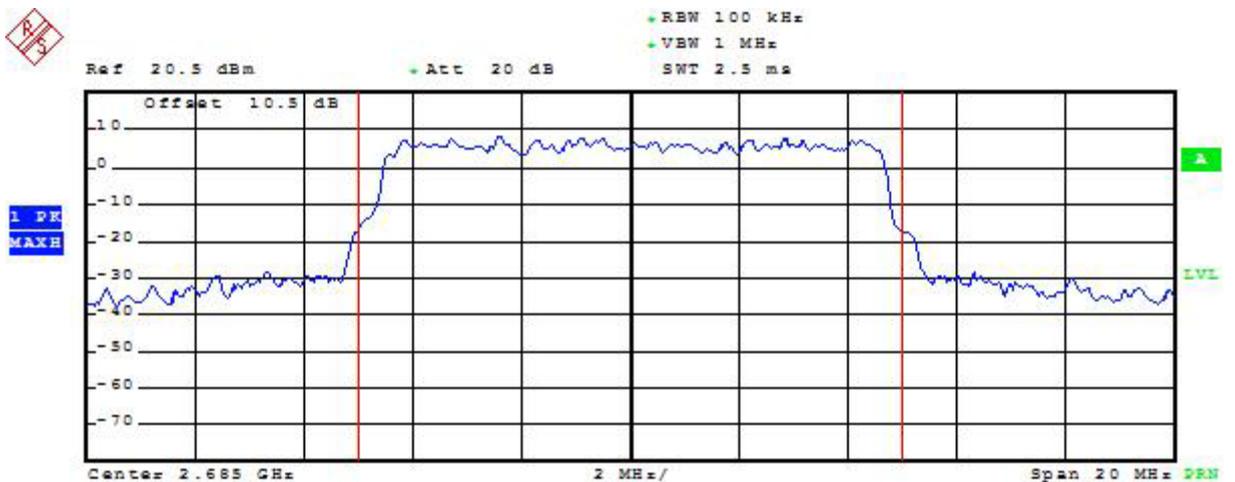
conducted Power (QPSK) 10MHz Bandwidth



Tx Channel Bandwidth 10 MHz Power 23.27 dBm

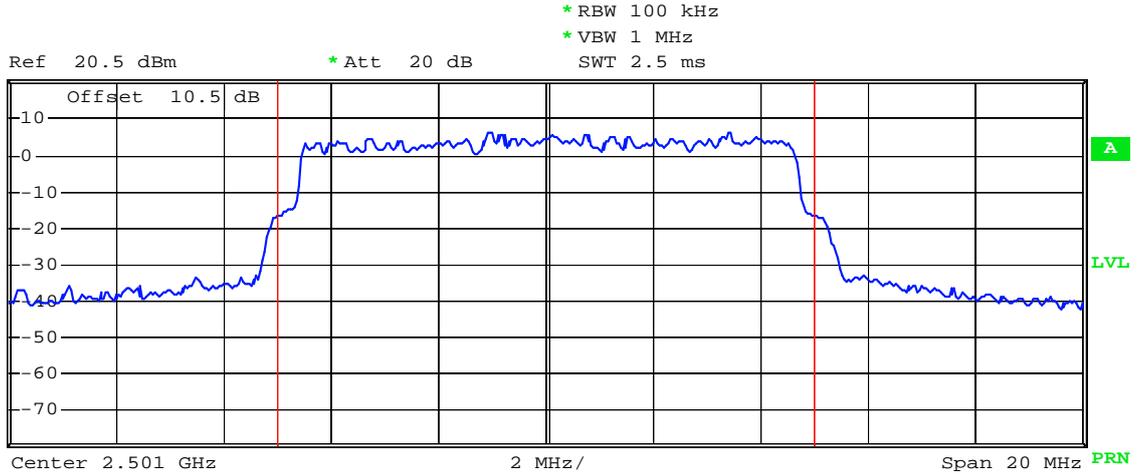


Tx Channel Bandwidth 10 MHz Power 24.20 dBm

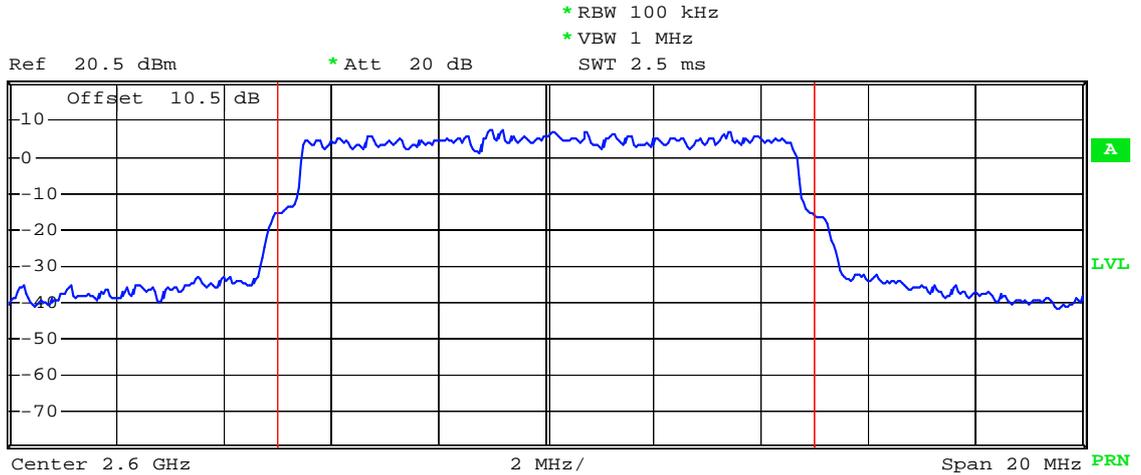


Tx Channel Bandwidth 10 MHz Power 25.25 dBm

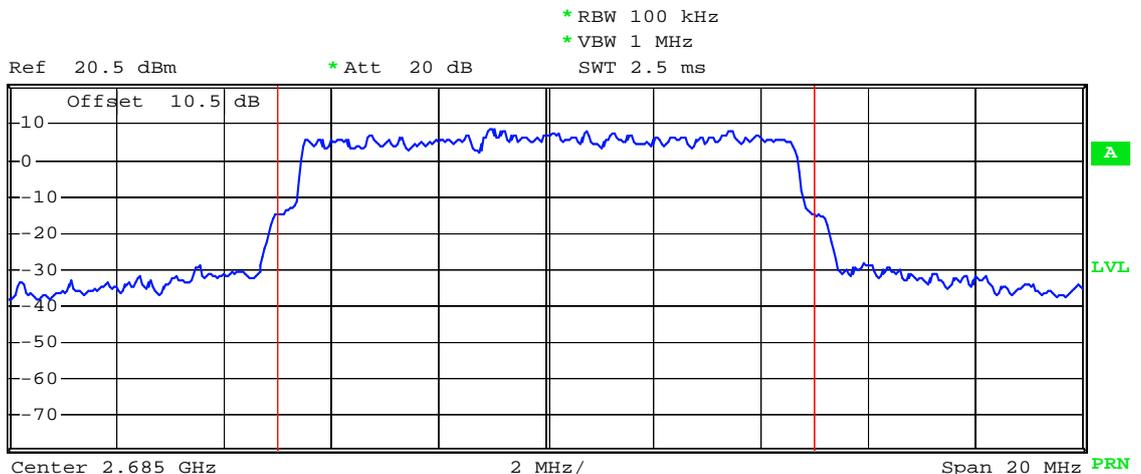
Conducted Power (16QAM)-10MHz Bandwidth



Tx Channel
Bandwidth 10 MHz Power 22.86 dBm



Tx Channel
Bandwidth 10 MHz Power 23.93 dBm



Tx Channel
Bandwidth 10 MHz Power 24.99 dBm

Radiated Peak Power

E.I.R.P Power (QPSK) 10MHz Bandwidth				
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)
Low	2501	42.339	-19.130	23.209
Middle	2600	40.740	-18.269	22.471
High	2685	41.394	-16.269	25.125

E.I.R.P Power (16QAM) 10MHz Bandwidth				
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)
Low	2501	42.339	-19.843	22.496
Middle	2600	40.740	-17.211	23.529
High	2685	41.394	-16.529	24.865

Note: E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

3. Occupied Bandwidth

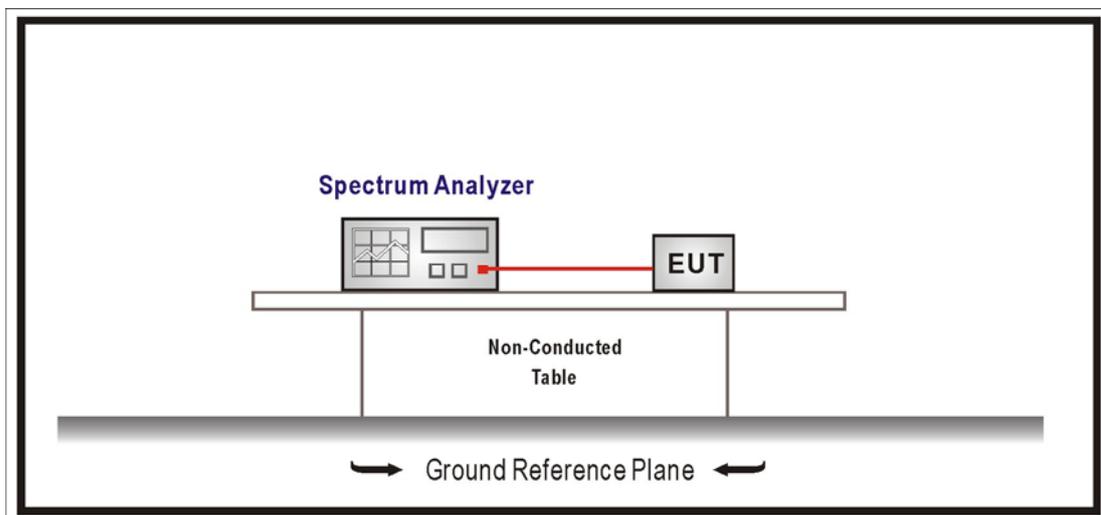
3.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. /Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP40 / 100561	Mar., 2008
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limits

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4. Test Procedure

The occupied bandwidth is measured using R&S Spectrum Analyzer with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz and span of 10 MHz. The EUT was set up for the rated peak power under transmission mode and specific channel frequency. The standards required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

3.5. Uncertainty

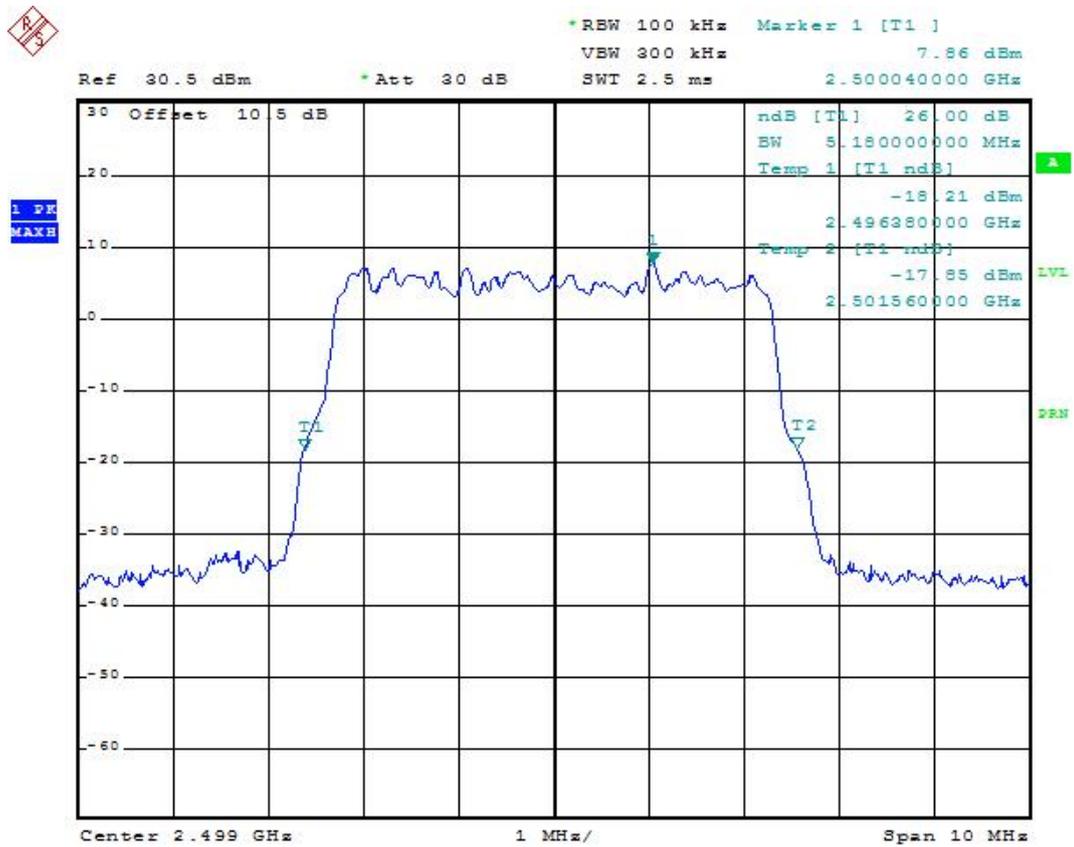
The measurement uncertainty is defined as ± 50 KHz

3.6. Test Result

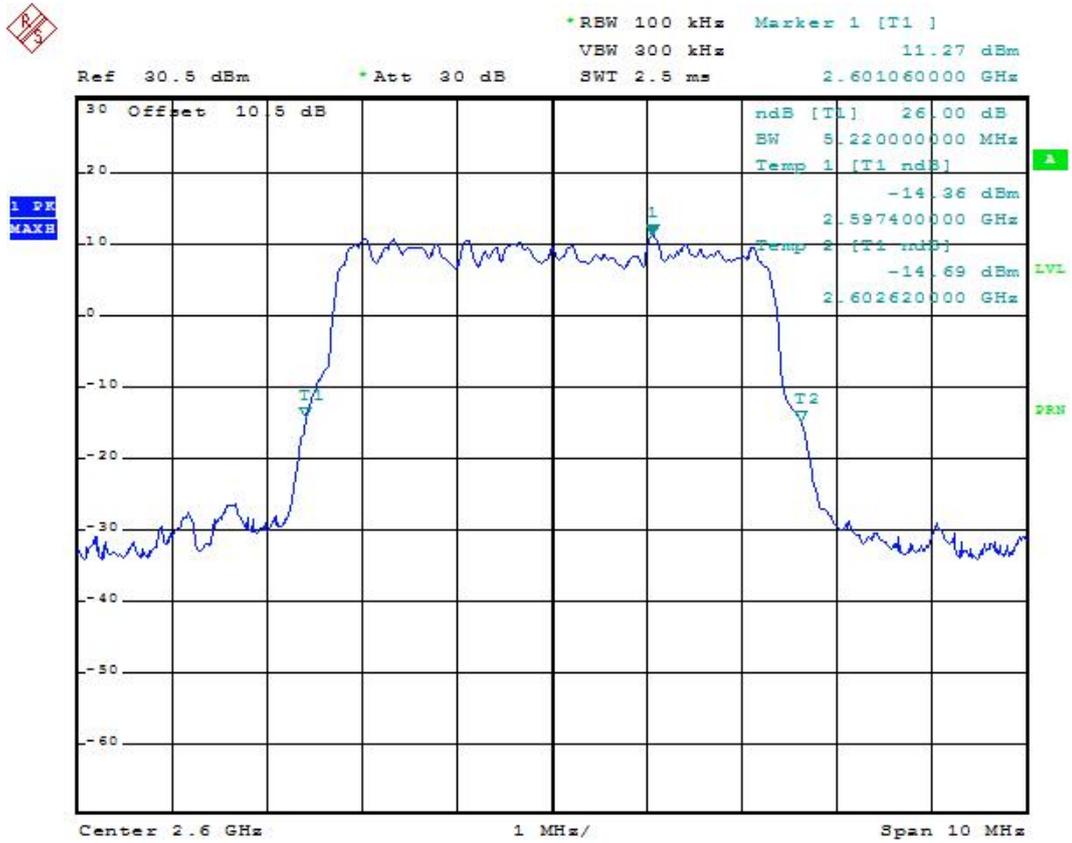
Product	TU25 USB Modem		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

Frequency (MHz)	-26 dBc Bandwidth (MHz)
2499	5.18
2600	5.22
2687	5.24

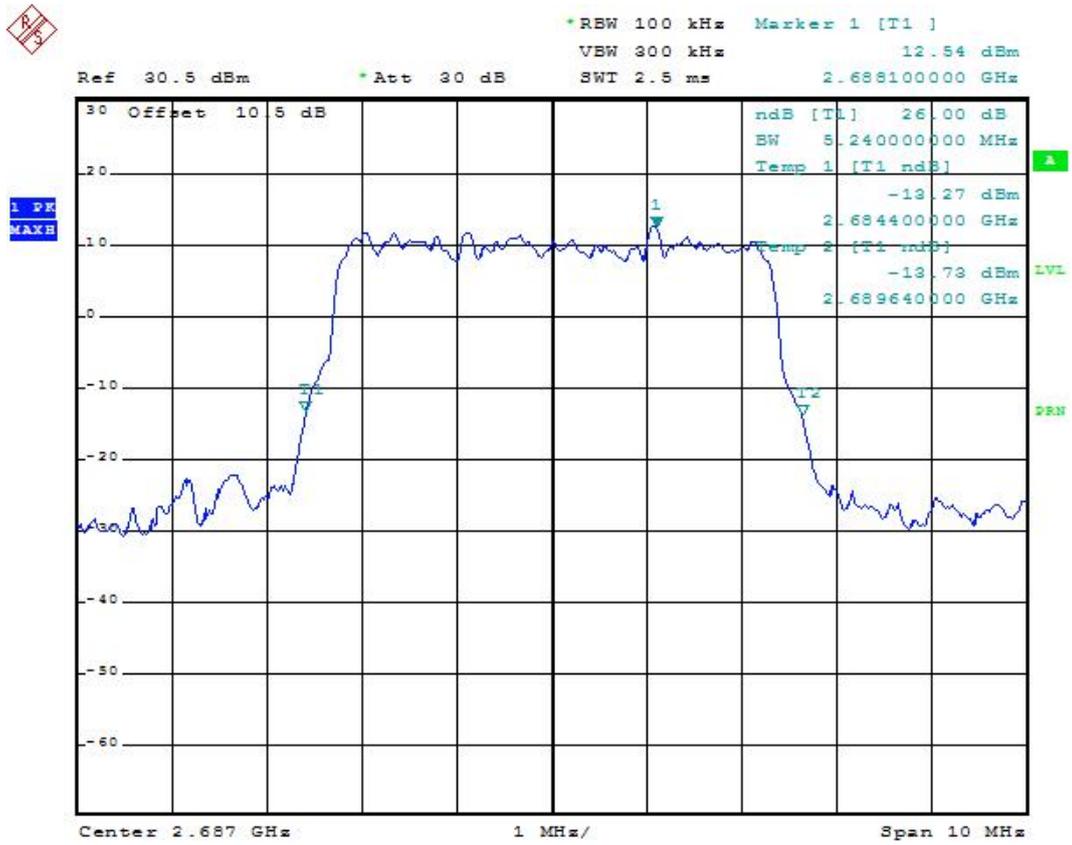
Low Channel (2499 MHz)



Middle Channel (2600 MHz)



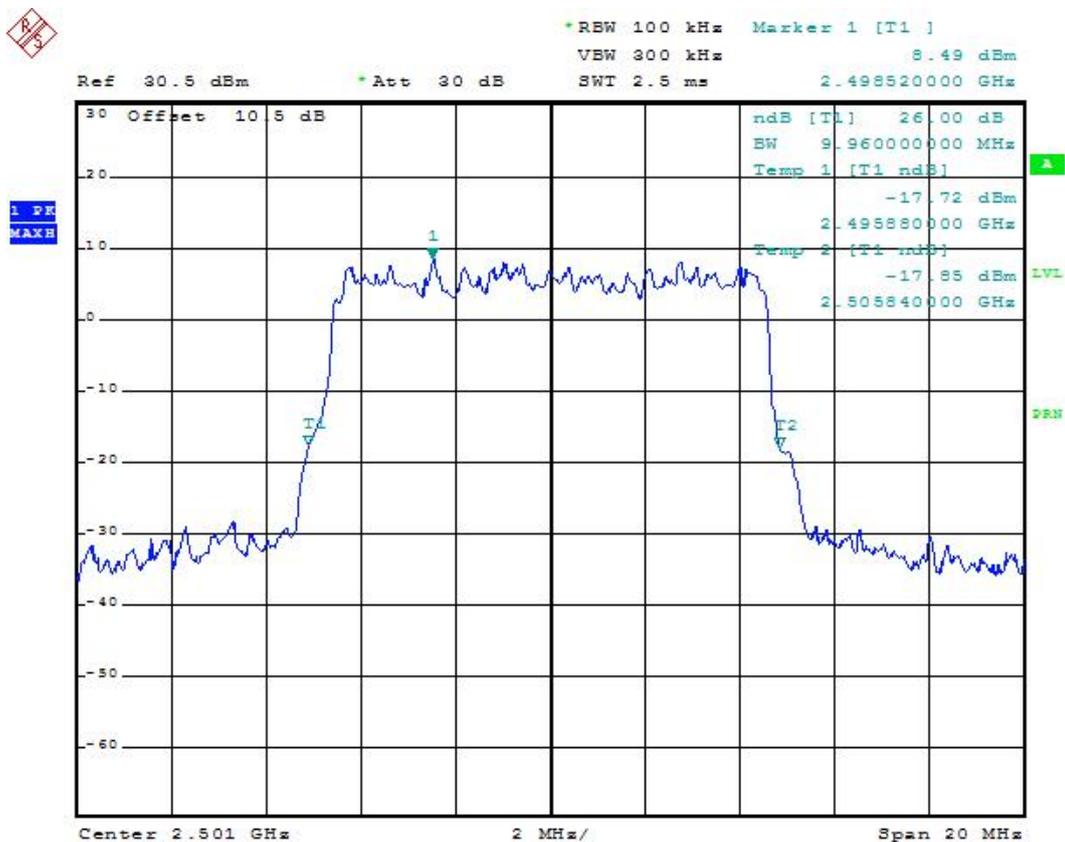
High Channel (2687 MHz)



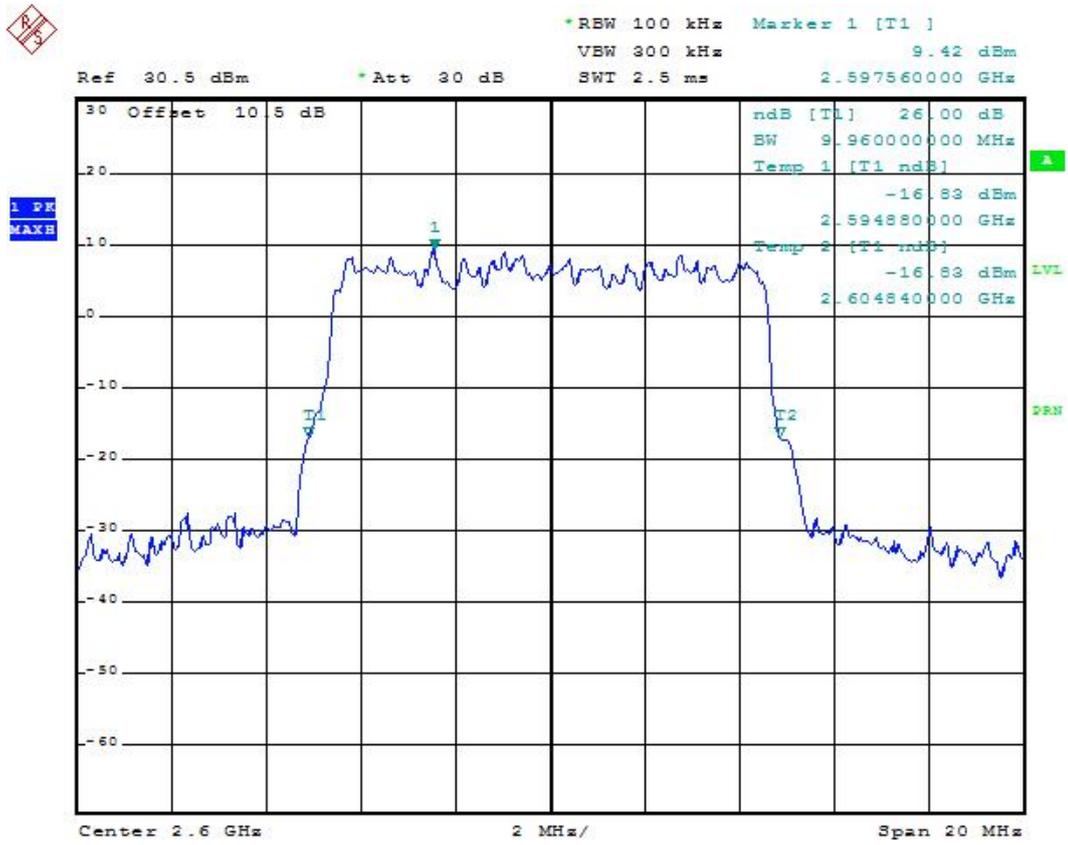
Product	TU25 USB Modem		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

Frequency (MHz)	-26 dBc Bandwidth (MHz)
2501	9.96
2600	9.96
2685	9.96

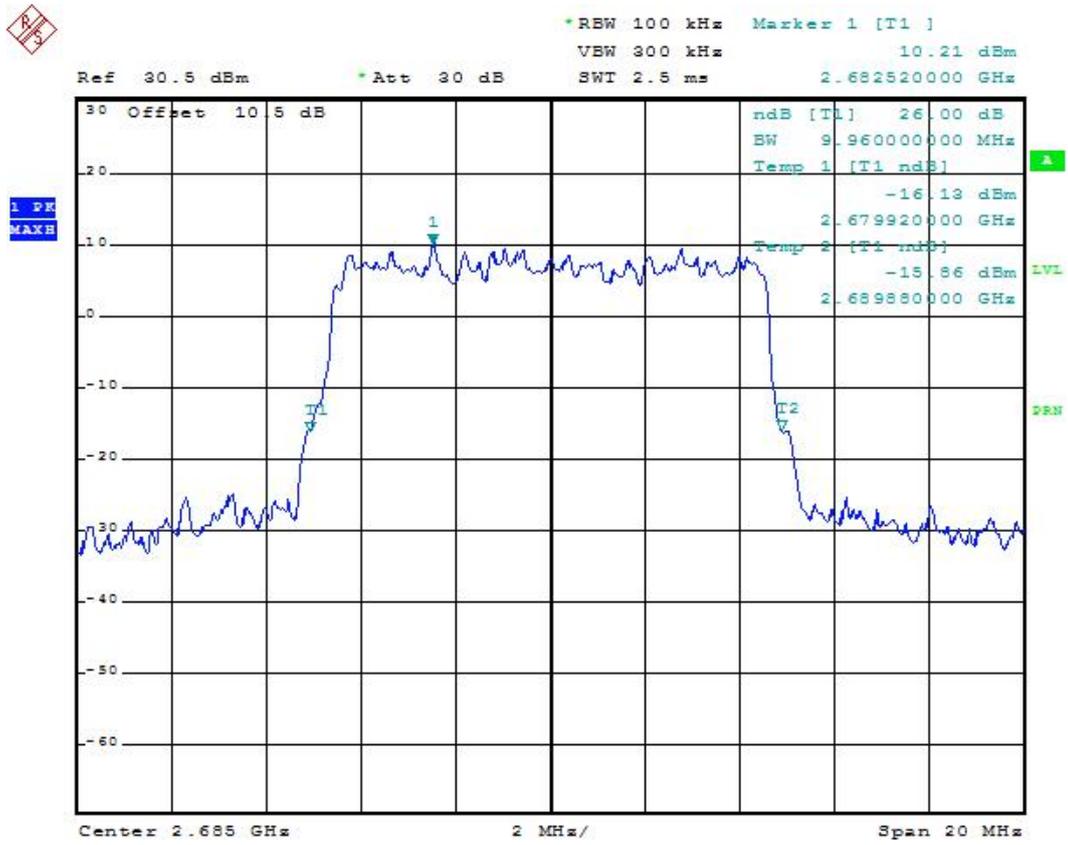
Low Channel (2501 MHz)



Middle Channel (2600 MHz)



High Channel (2685 MHz)



4. Band Edge

4.1. Test Equipment

The following test equipments are used during the test:

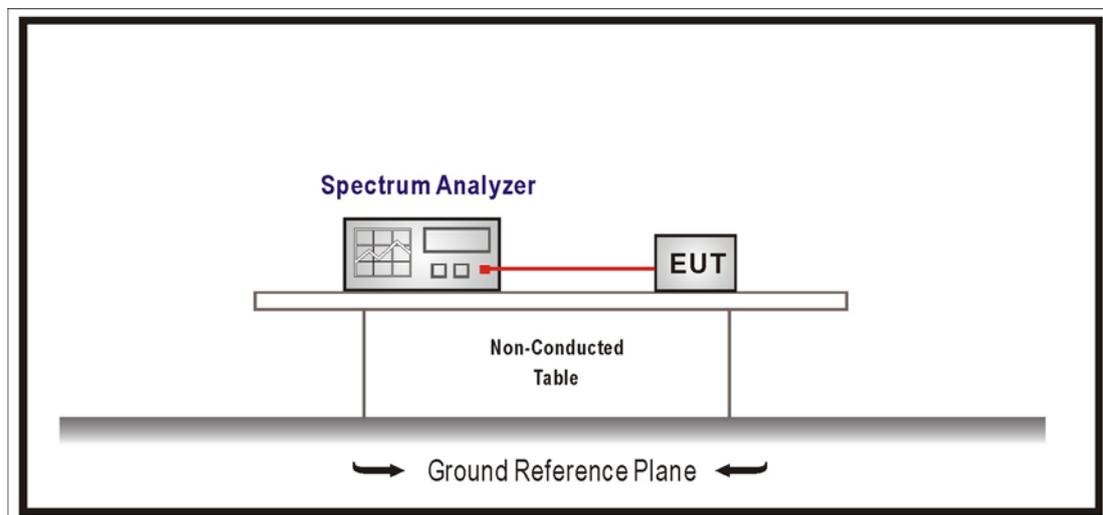
RF Conducted Measurement:				
Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP40 / 100561	Mar., 2008
2	No.1 OATS			Sep., 2007

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2008
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2008
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2007
8		No.1 OATS			Sep., 2007

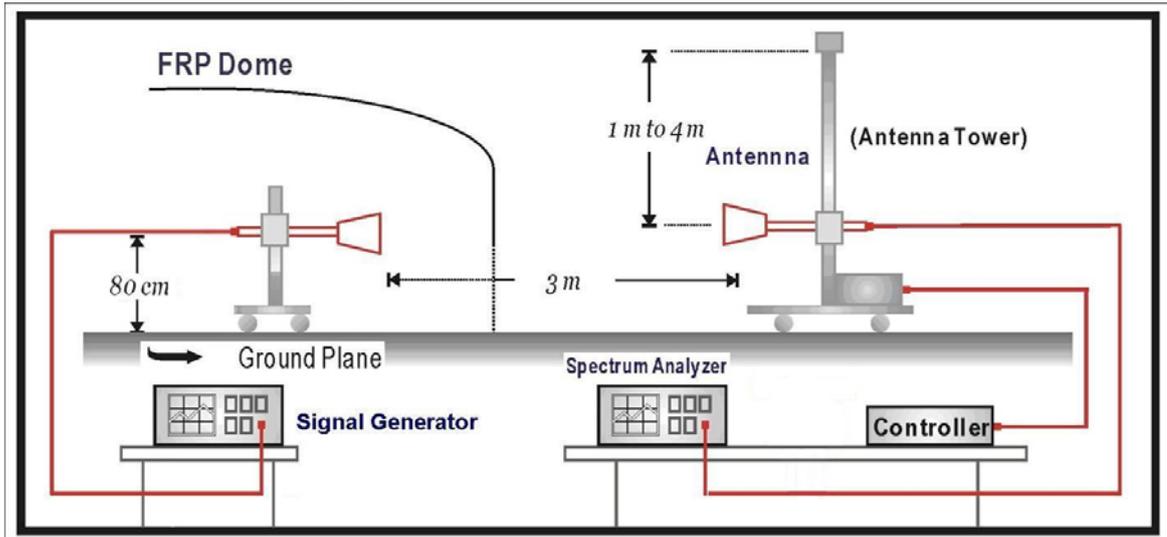
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. "N/A" Ca1.Date is used to Pre-test, not final test.

4.2. Test Setup

RF Conducted Measurement:



Substitution Method Setup:



4.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges

Sample Calculation:

Assume the EUT Output Power is $2\text{ W} = 33\text{ dBm}$

$$43 + \log (P)\text{ dB}$$

$$43 + \log (2) = 46\text{ dB}$$

$$33\text{ dBm} - 46\text{ dB} = -13\text{ dBm}$$

$$55 + \log (2) = 58\text{ dB}$$

$$33\text{ dBm} - 58\text{ dB} = -25\text{ dBm}$$

4.4. Test Procedure

Conducted Measurement :

The EUT was set up for the rated peak power. The band edge was measured with Spectrum Analyzer with a resolution bandwidth of 100 kHz and video bandwidth of 300 kHz. All measurements were done at 2 channels: low and high operational frequency range.

The center frequency of spectrum is the band edge frequency and span is 7.5 MHz for test mode 1 (5 MHz bandwidth) and 15 MHz for test mode 2 (10 MHz bandwidth). The resolution bandwidth of spectrum is 100 kHz and video bandwidth of spectrum is 300 kHz.

Record the max trace plot into the test report.

Radiated Measurement :

EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

On any frequency, the limits shown are based on measuring equipment employing a peak detector function. The resolution bandwidth of spectrum analyzer is 100KHz. and video bandwidth is 300KHz.

The radiated band edge emission was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

$$\text{Emission Level} = \text{Reading Level} + \text{Correct Factor} = \text{S.G.} - \text{Cable Loss} + \text{Antenna Gain}$$

4.5. Uncertainty

The measurement uncertainty

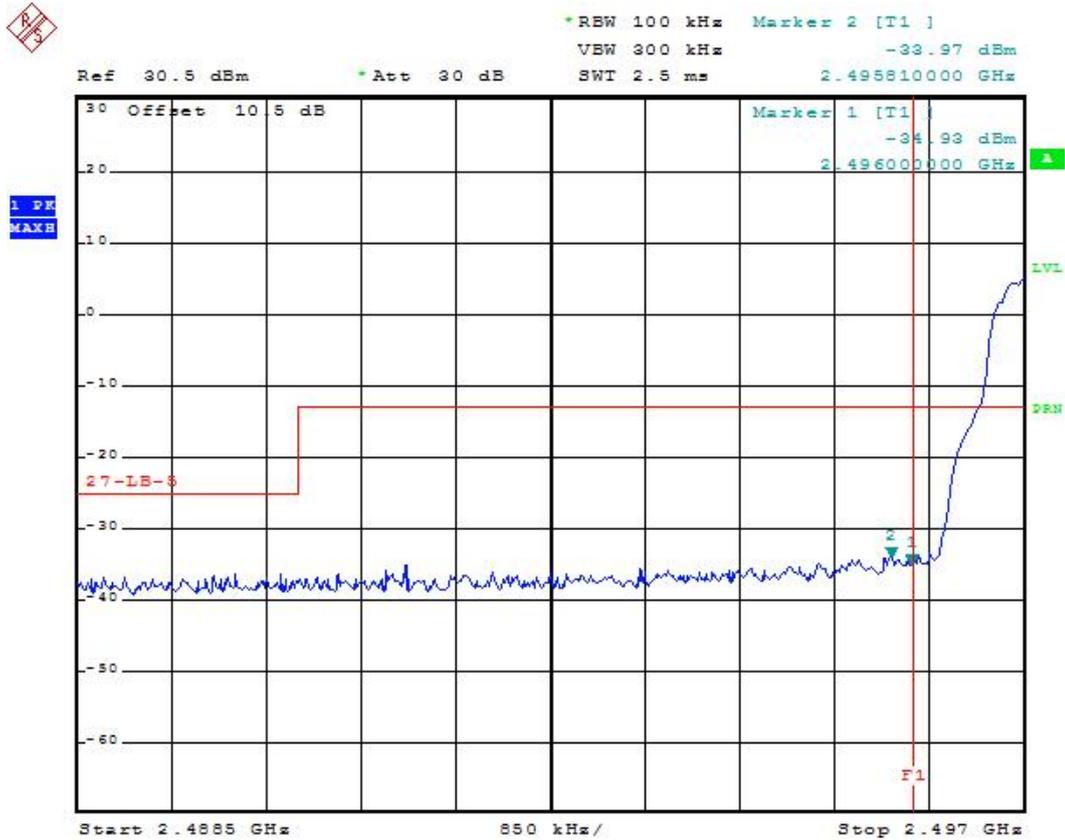
Conducted is defined as $\pm 1.27\text{dB}$

Radiated is defined as $\pm 3.9\text{dB}$

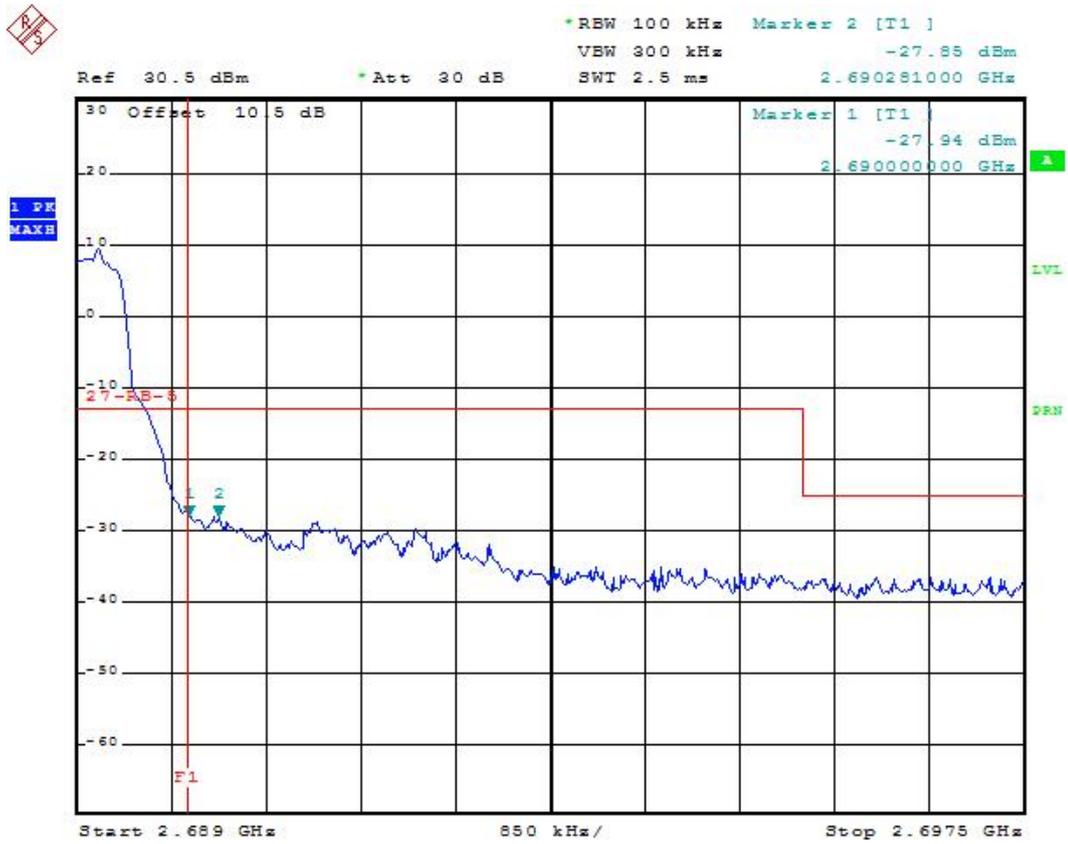
4.6. Test Result

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Low Channel (2499 MHz)

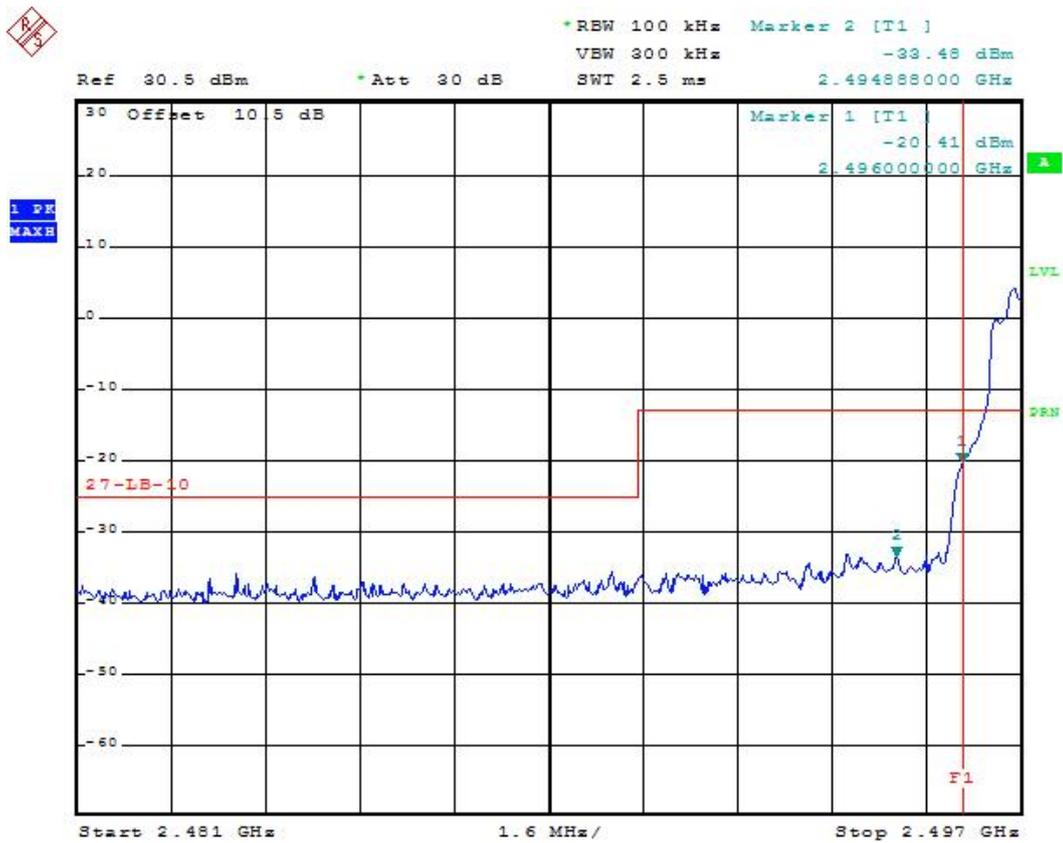


High Channel (2687 MHz)

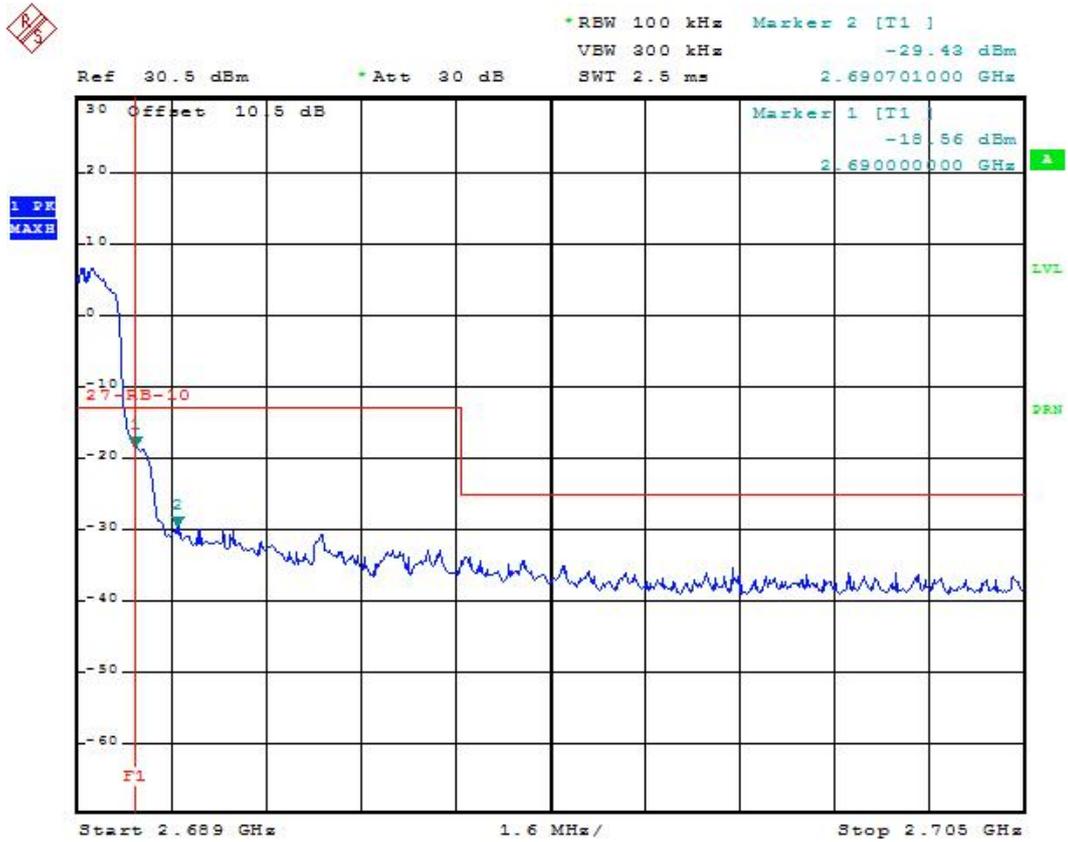


Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Low Channel (2501 MHz)

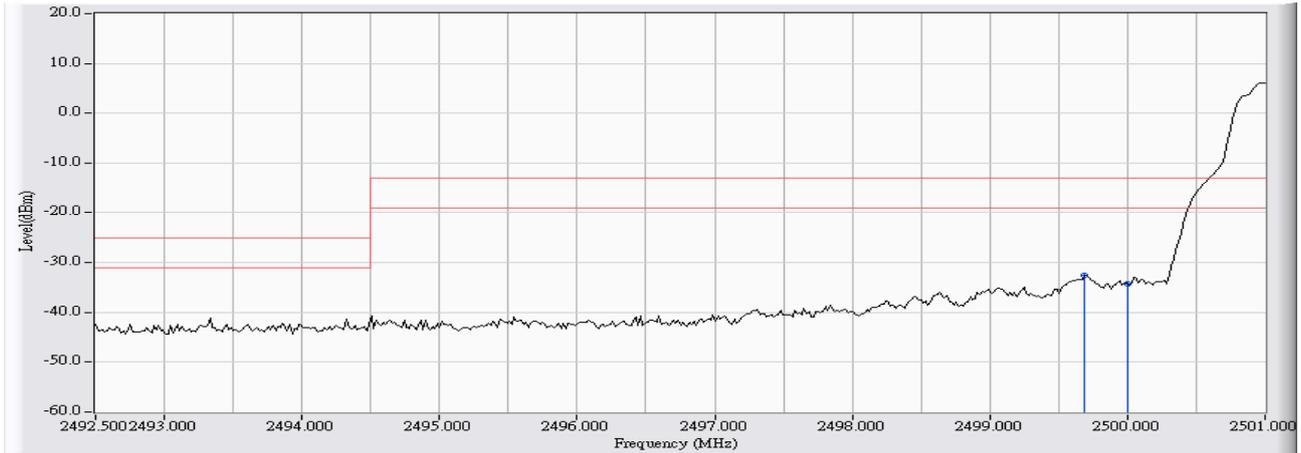


High Channel (2685 MHz)



4.7. Radiated Band Edge

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) QPSK, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

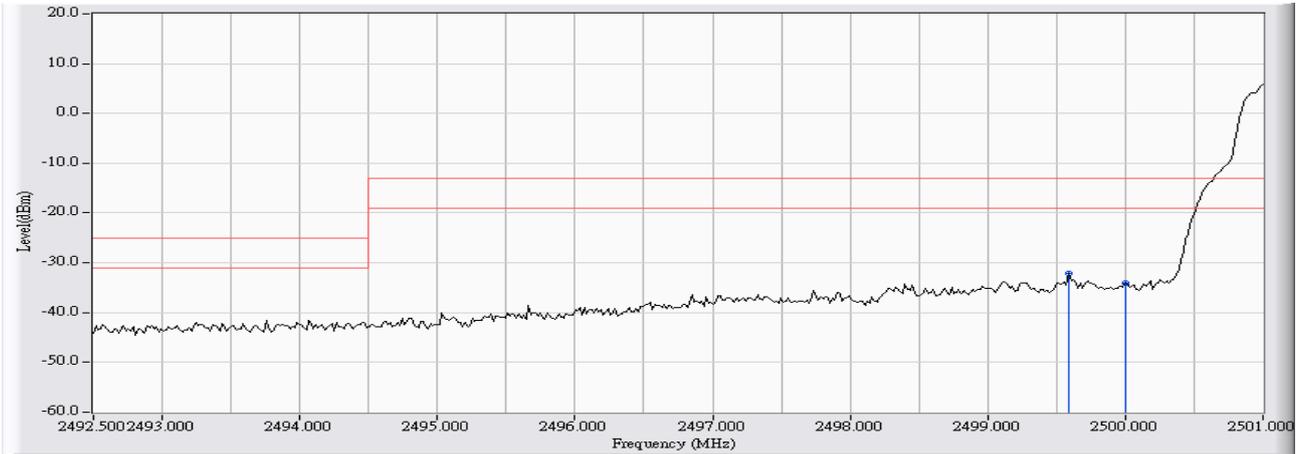


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2499.691	43.890	-76.539	-32.648	-19.648	-13.000	PEAK
2		2500.000	43.884	-78.125	-34.240	-21.240	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) QPSK, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

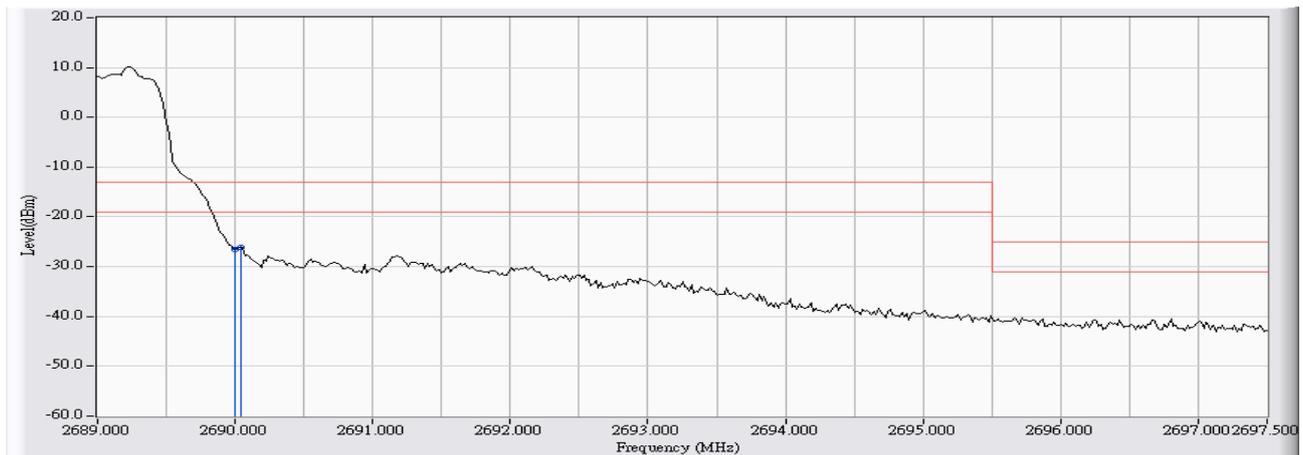


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2499.589	43.746	-75.920	-32.174	-19.174	-13.000	PEAK
2		2500.000	43.747	-77.900	-34.153	-21.153	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) QPSK, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

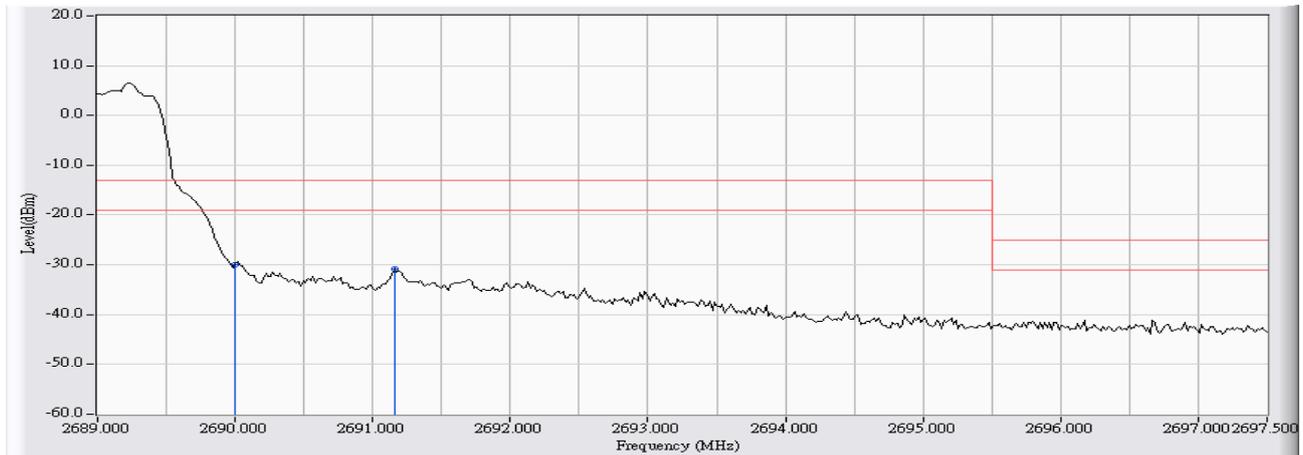


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		2690.000	42.815	-69.378	-26.563	-13.563	-13.000	PEAK
2	*	2690.037	42.815	-69.030	-26.214	-13.214	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) QPSK, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

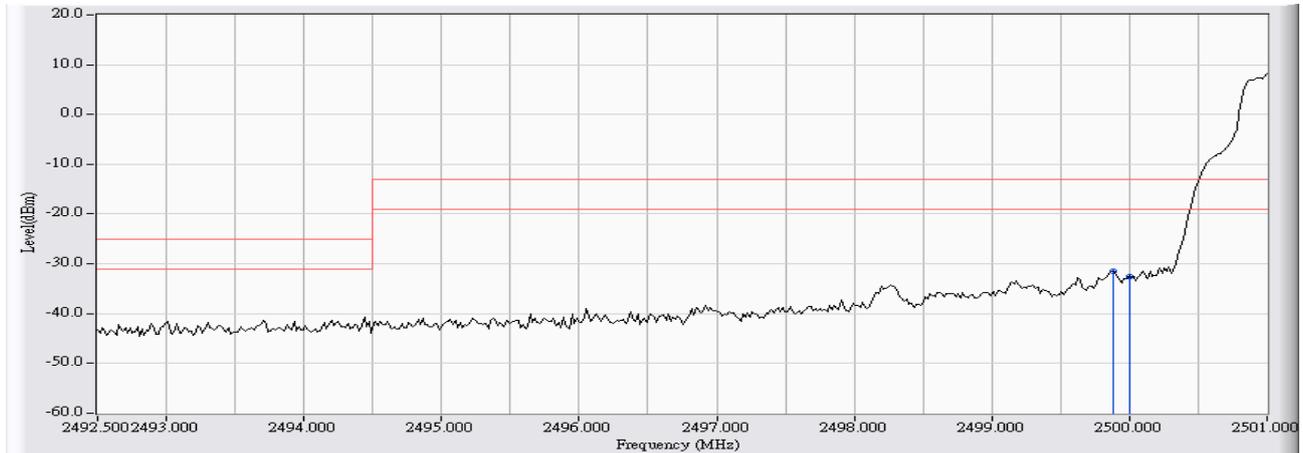


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2690.000	42.815	-72.722	-29.907	-16.907	-13.000	PEAK
2		2691.159	44.633	-75.455	-30.822	-17.822	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) 16QAM, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

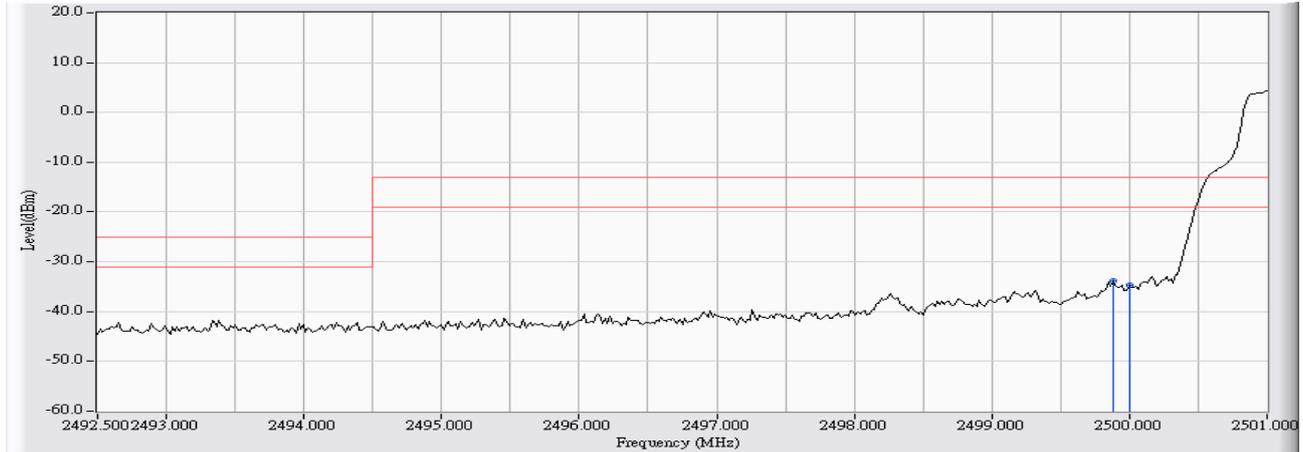


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2499.878	43.887	-75.298	-31.411	-18.411	-13.000	PEAK
2		2500.000	43.884	-76.371	-32.486	-19.486	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) 16QAM, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

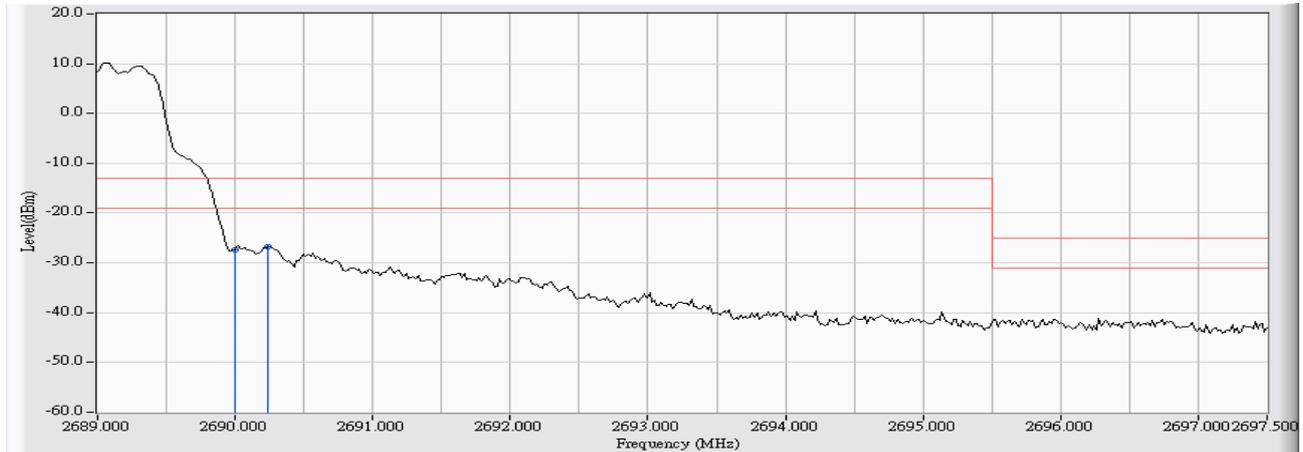


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2499.878	43.747	-77.631	-33.884	-20.884	-13.000	PEAK
2		2500.000	43.747	-78.490	-34.743	-21.743	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) 16QAM, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

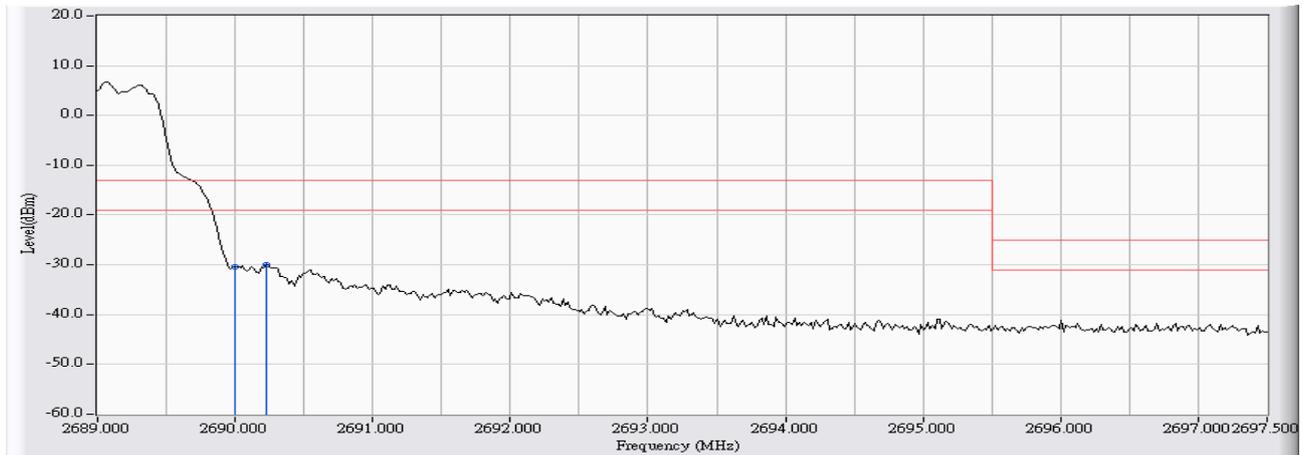


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	2690.000	42.815	-70.255	-27.440	-14.440	-13.000	PEAK
2	* 2690.241	42.817	-69.649	-26.832	-13.832	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (5MHz Bandwidth) 16QAM, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

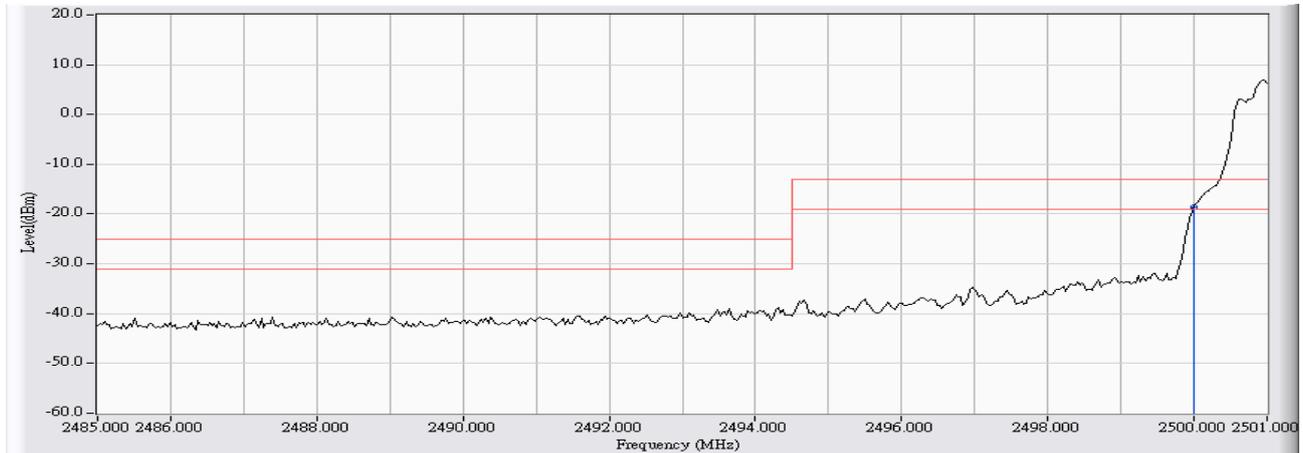


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		2690.000	44.627	-74.960	-30.333	-17.333	-13.000	PEAK
2	*	2690.224	44.628	-74.622	-29.994	-16.994	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) QPSK, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

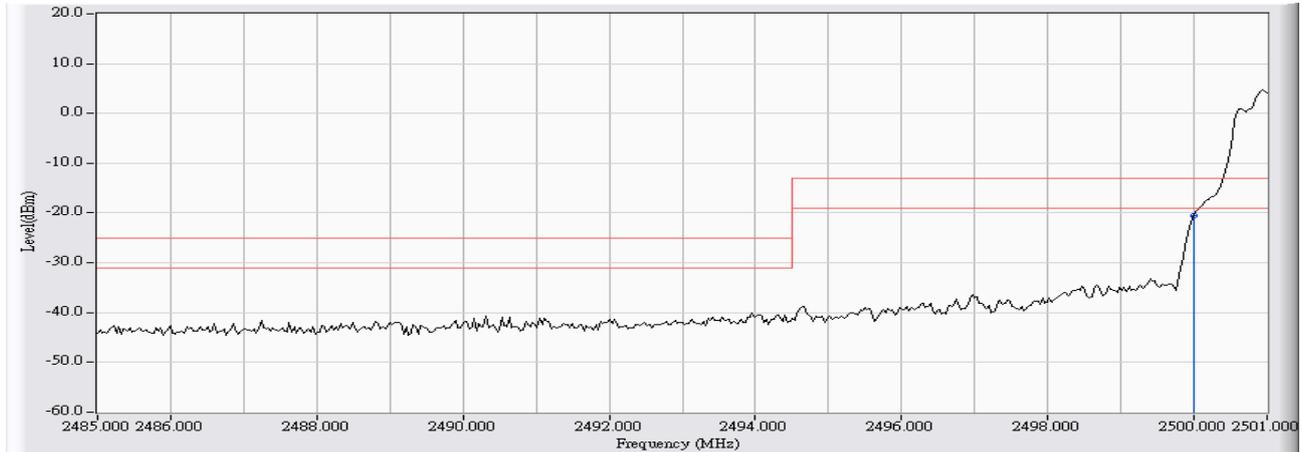


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2500.000	43.884	-62.406	-18.521	-5.521	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) QPSK, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

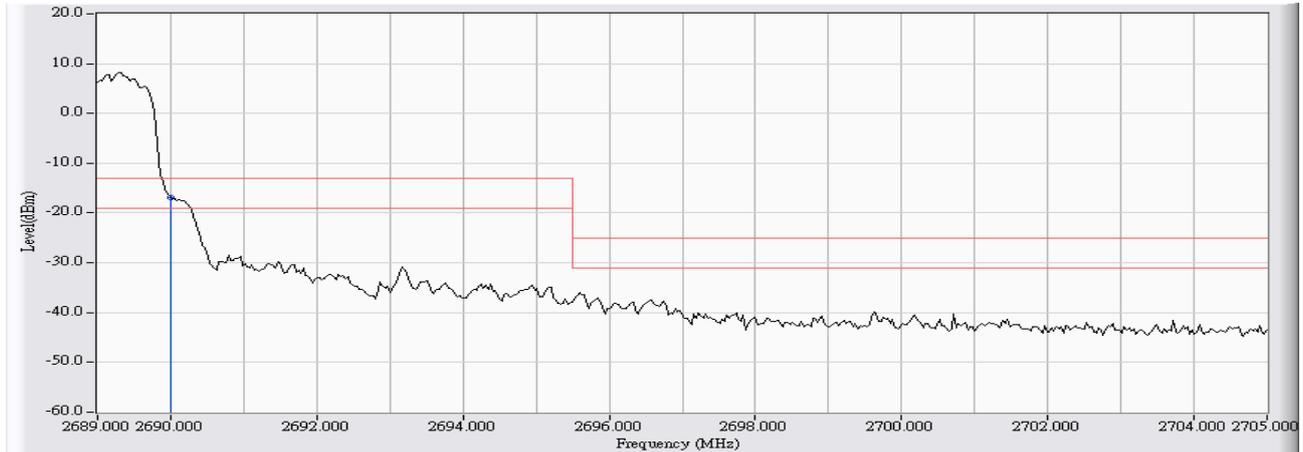


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2500.000	43.884	-64.470	-20.585	-7.585	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) QPSK, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

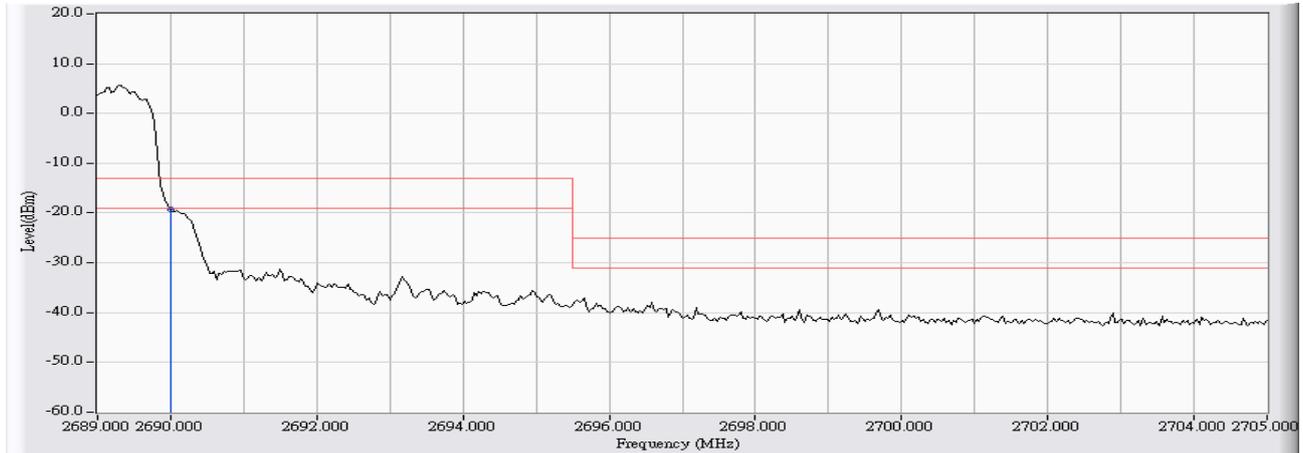


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Emission Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2690.000	42.815	-59.615	-16.800	-3.800	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) QPSK, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

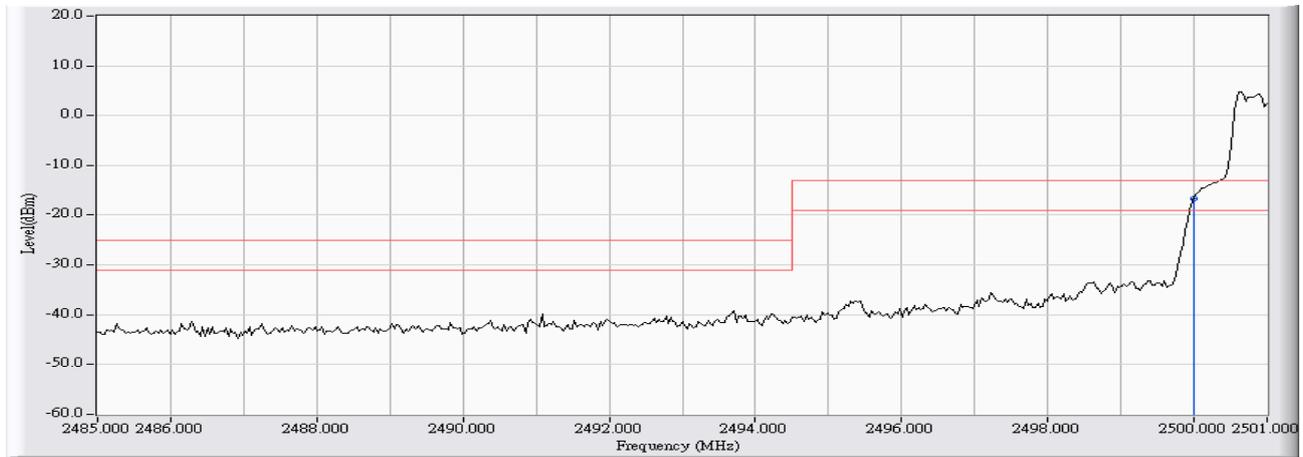


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2690.000	42.815	-62.097	-19.282	-6.282	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) 16QAM, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

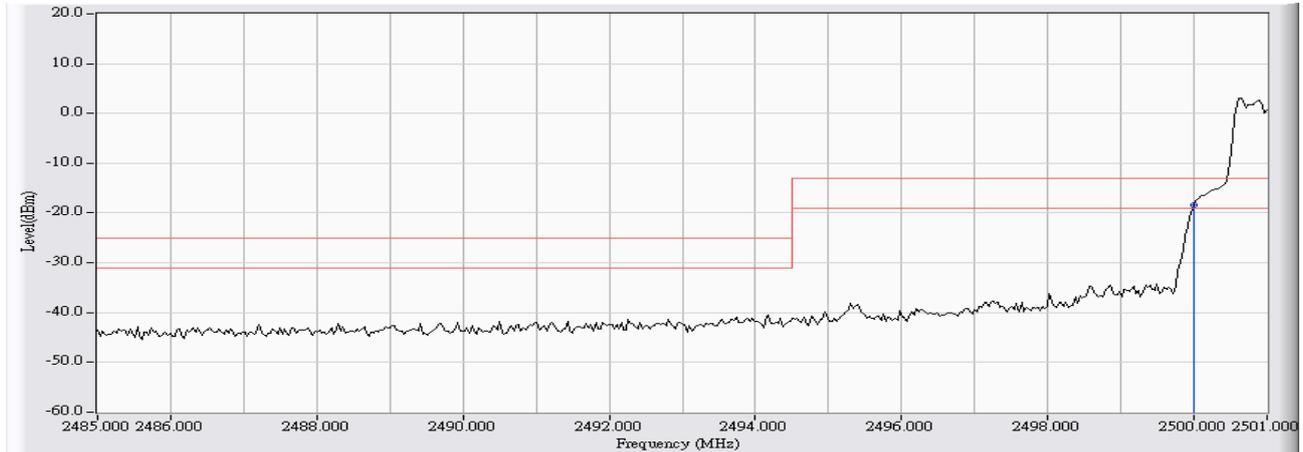


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2500.000	42.027	-58.668	-16.642	-3.642	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) 16QAM, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

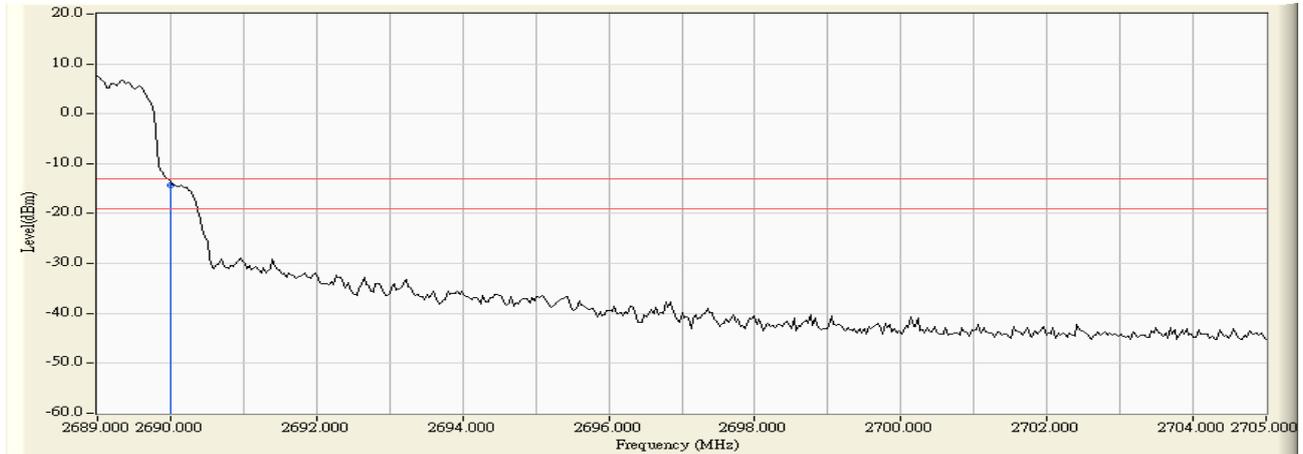


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2500.000	43.884	-62.361	-18.476	-5.476	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) 16QAM, Horizontal Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS

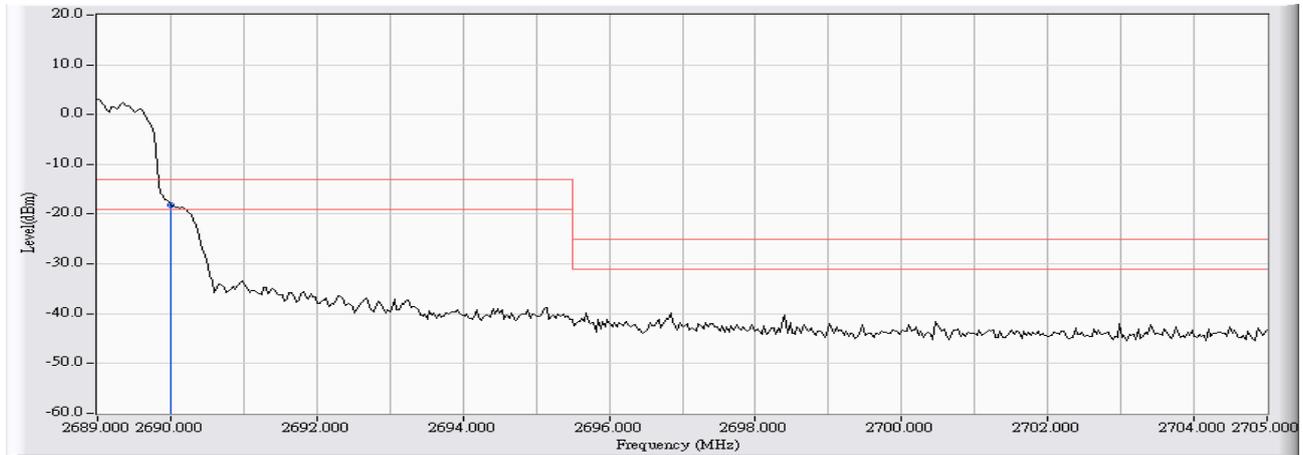


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2690.000	42.815	-57.176	-14.361	-1.361	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Product	TU25 USB Modem		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (10MHz Bandwidth) 16QAM, Vertical Polarization		
Date of Test	2008/08/01	Test Site	No.1 OATS



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	2690.000	44.627	-62.749	-18.122	-5.122	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

5. Conducted Spurious Emission

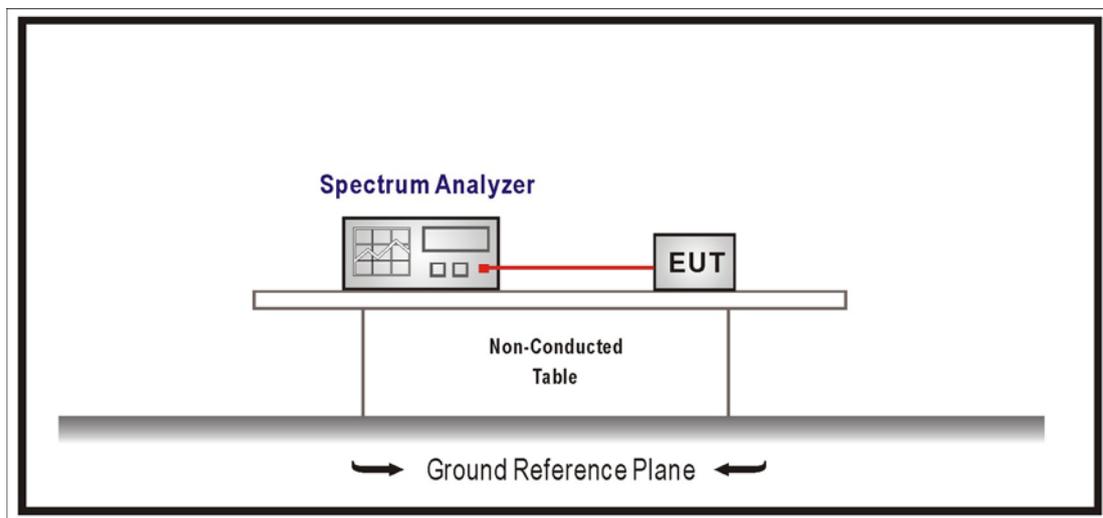
5.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP40 / 100005	Nov., 2007
2	No.1 OATS			Sep., 2007

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges

Sample Calculation:

Assume the EUT Output Power is $2\text{ W} = 33\text{ dBm}$

$$43 + \log (P)\text{ dB}$$

$$43 + \log (2) = 46\text{ dB}$$

$$33\text{ dBm} - 46\text{ dB} = -13\text{ dBm}$$

$$55 + \log (2) = 58\text{ dB}$$

$$33\text{ dBm} - 58\text{ dB} = -25\text{ dBm}$$

5.4. Test Procedure

The EUT was set up for the rated peak power. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.

When the spectrum scanned from 30MHz to 27GHz, it connected to the 10dB attenuator to the carried frequency. The spectrum set RBW = 1MHz, VBW = 3MHz. and using peak detection mode.

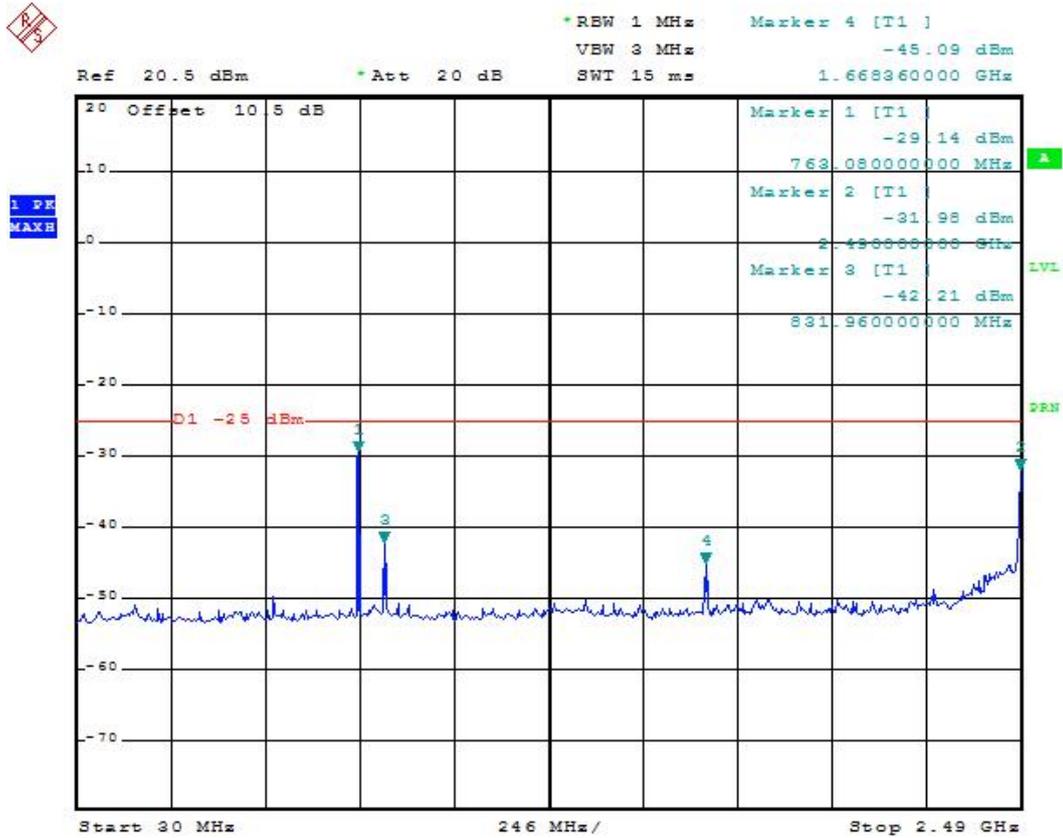
5.5. Uncertainty

The measurement uncertainty is defined as $\pm 1.27\text{ dB}$

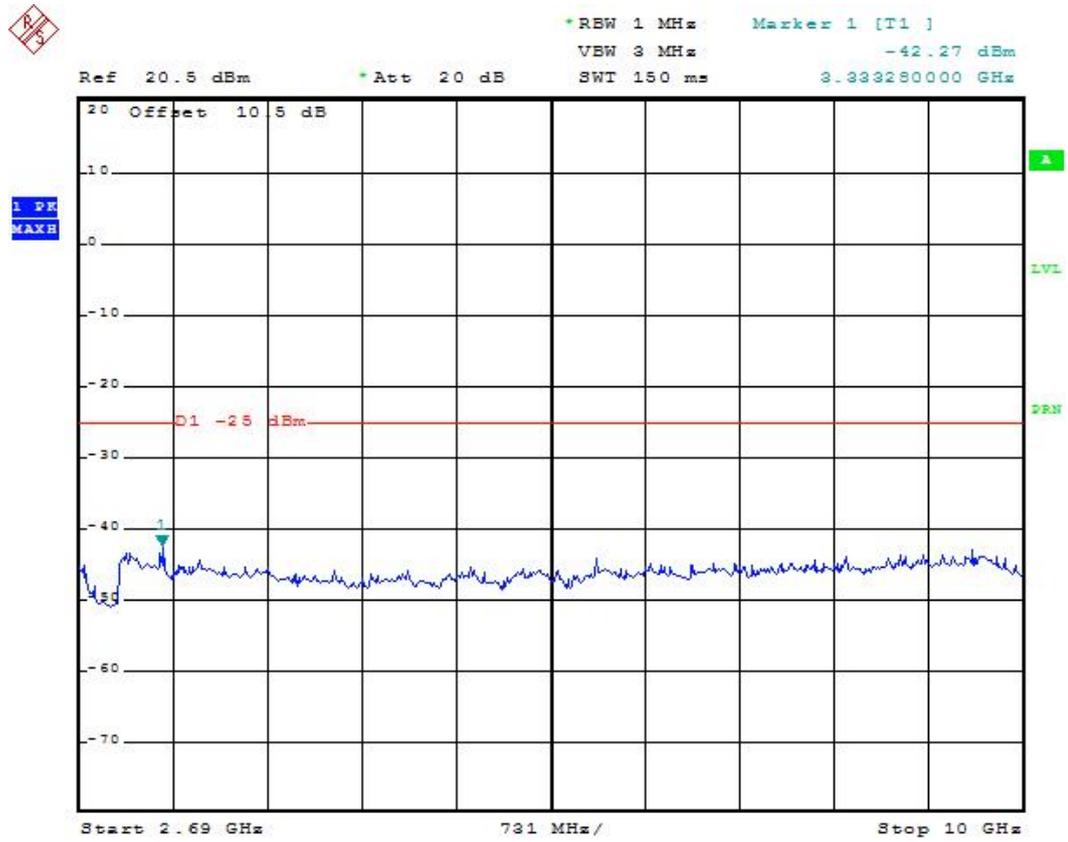
5.6. Test Result

Product	TU25 USB Modem		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

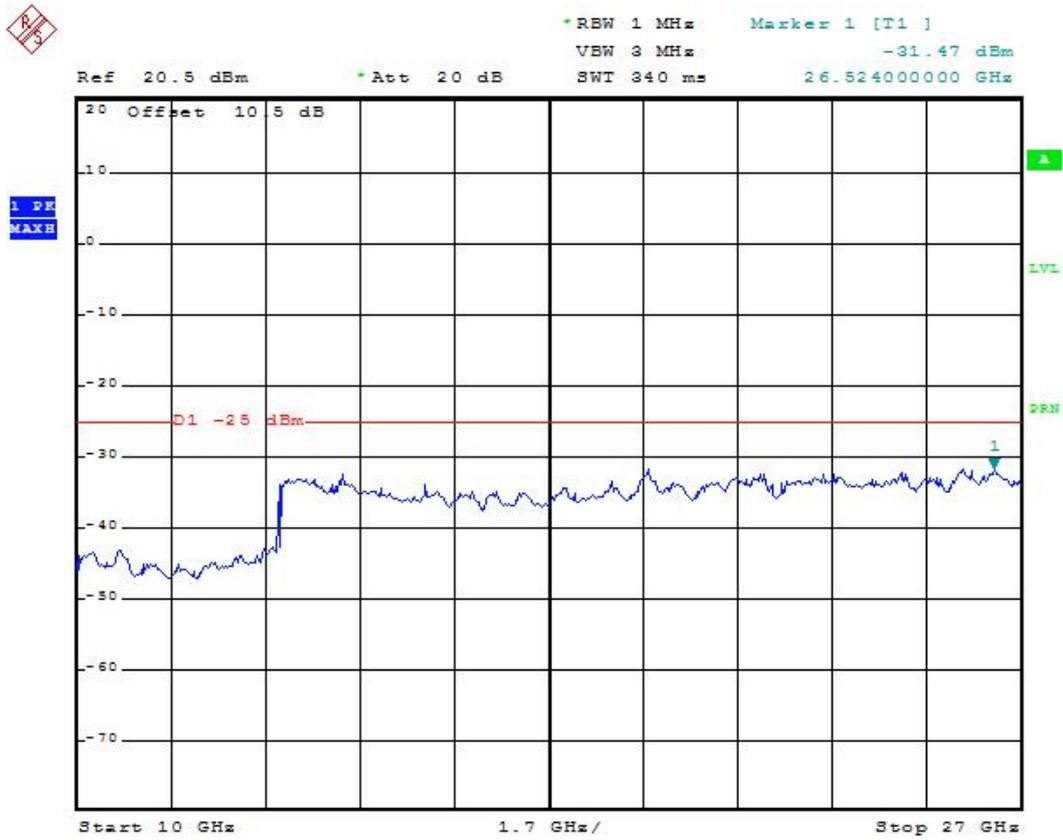
30 MHz to 2.490 GHz



2.690 GHz to 10 GHz

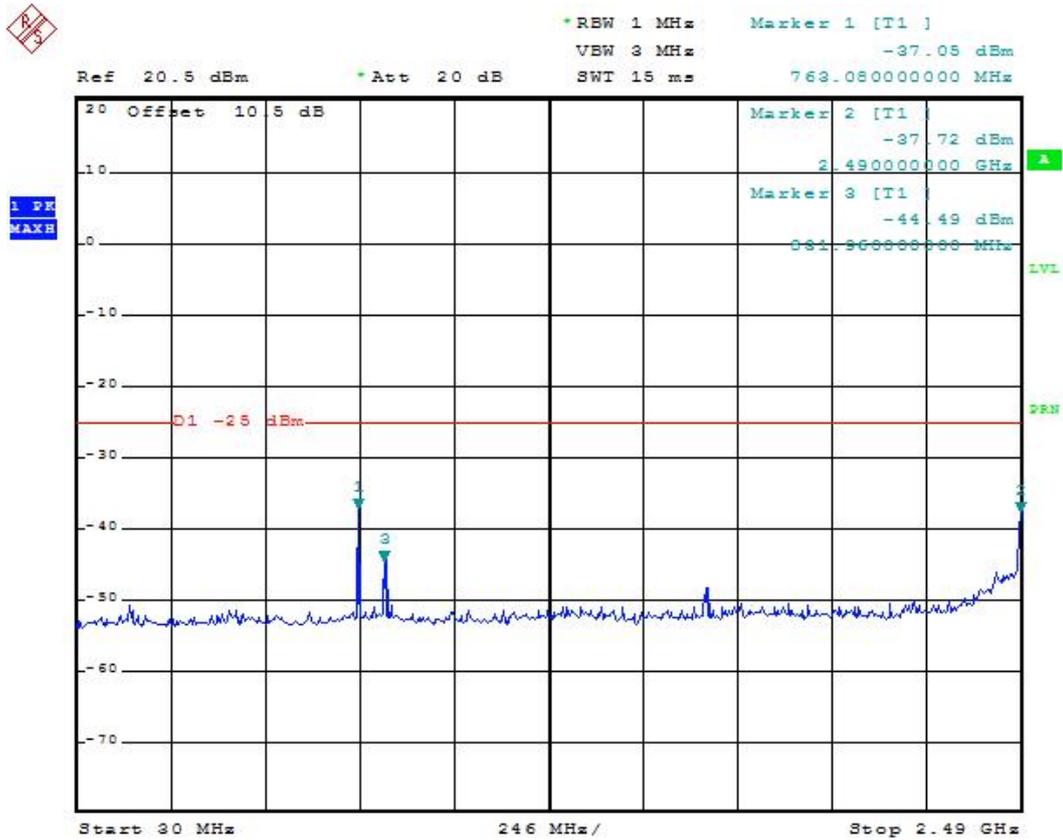


10 GHz to 27 GHz

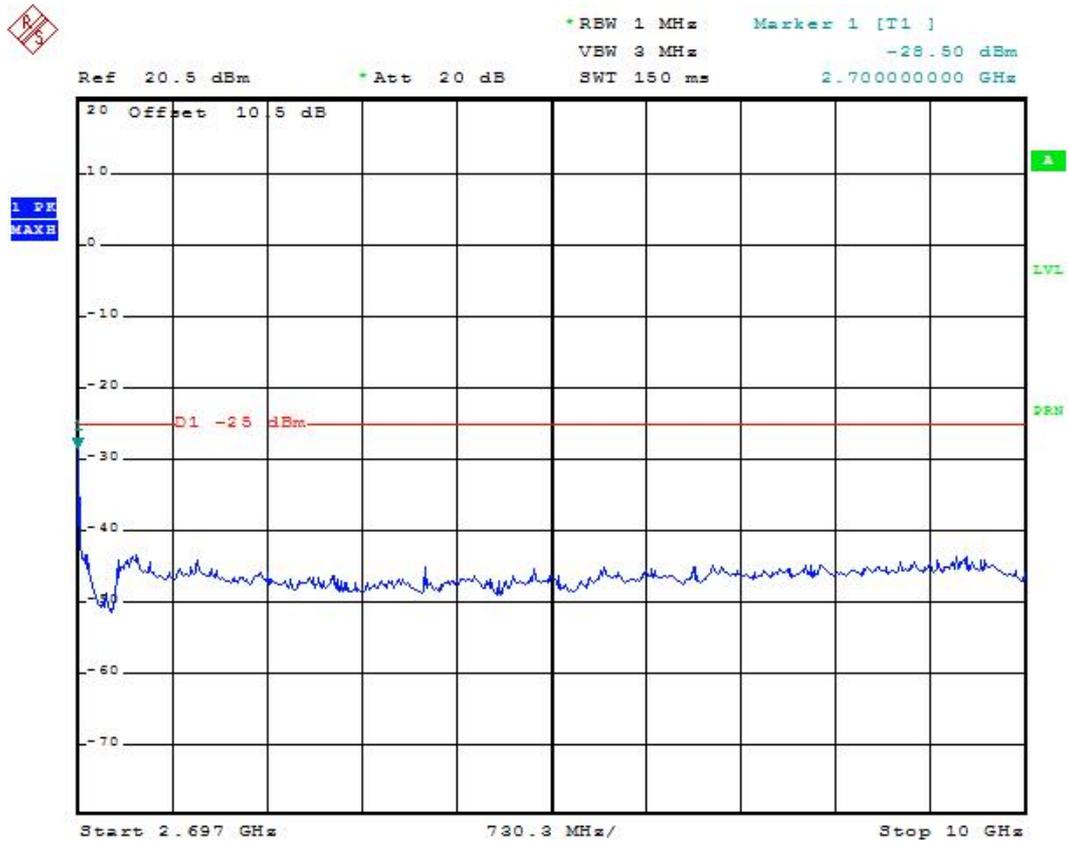


Product	TU25 USB Modem		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/03	Test Site	No.1 OATS

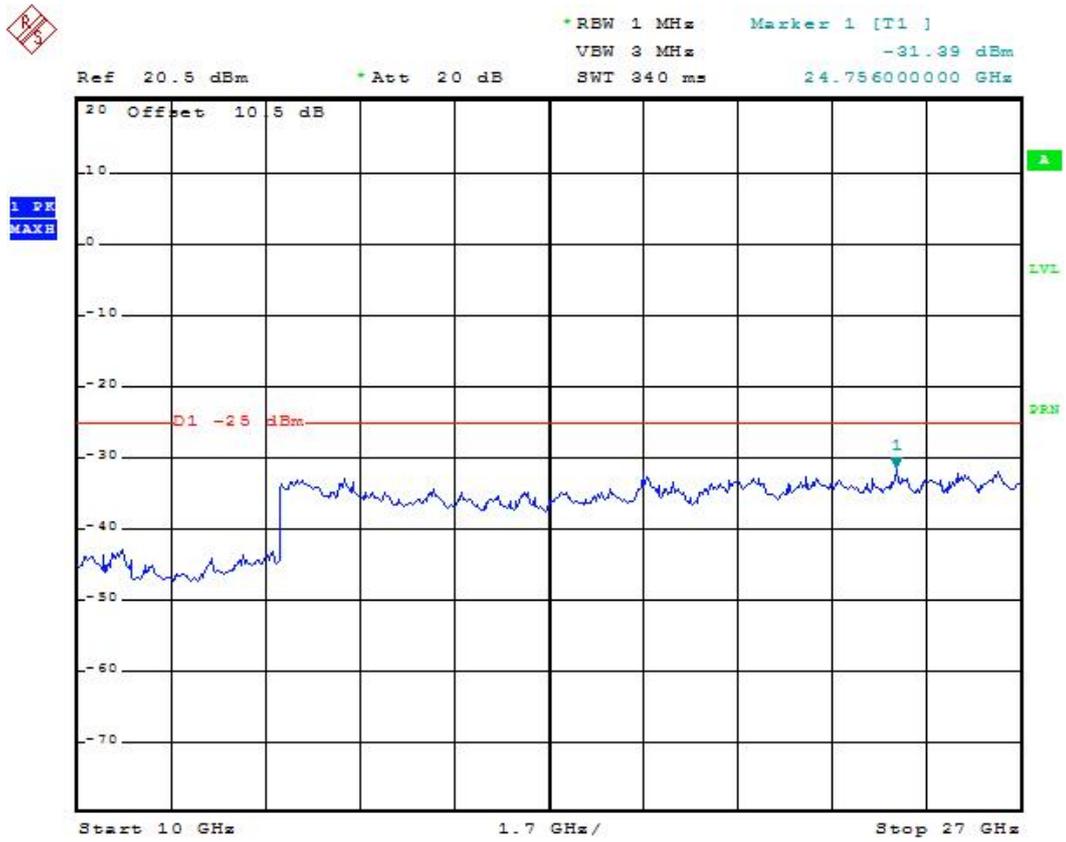
30 MHz to 2.490 GHz



2.690 GHz to 10 GHz



10 GHz to 27 GHz



5.7. Test Photo

Test Mode : Mode 1: Transmit (5MHz Bandwidth)

Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 1: Transmit (5MHz Bandwidth)

Description : Back View of Conducted Emission Test Setup



Test Mode : Mode 2: Transmit (10MHz Bandwidth)
Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 2: Transmit (10MHz Bandwidth)
Description : Back View of Conducted Emission Test Setup



6. Radiated Spurious Emission

6.1. Test Equipment

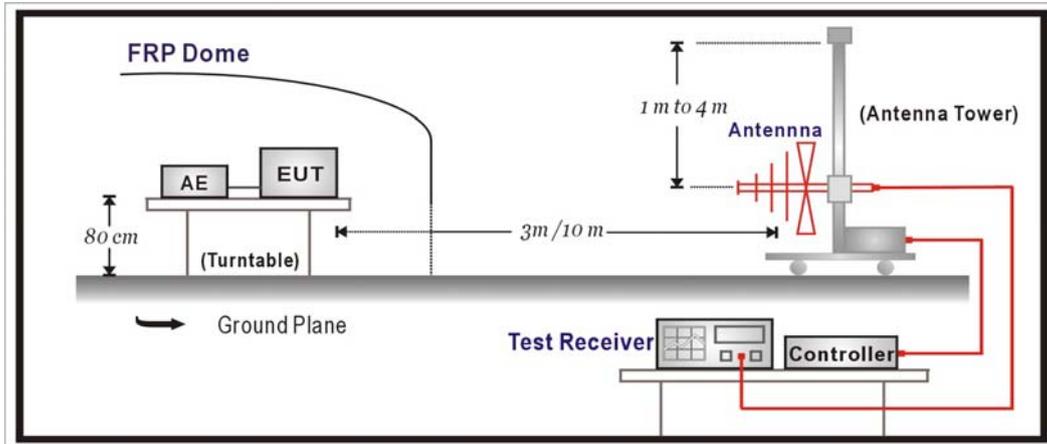
The following test equipments are used during the test:

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2008
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2008
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2007
8		No.1 OATS			Sep., 2007

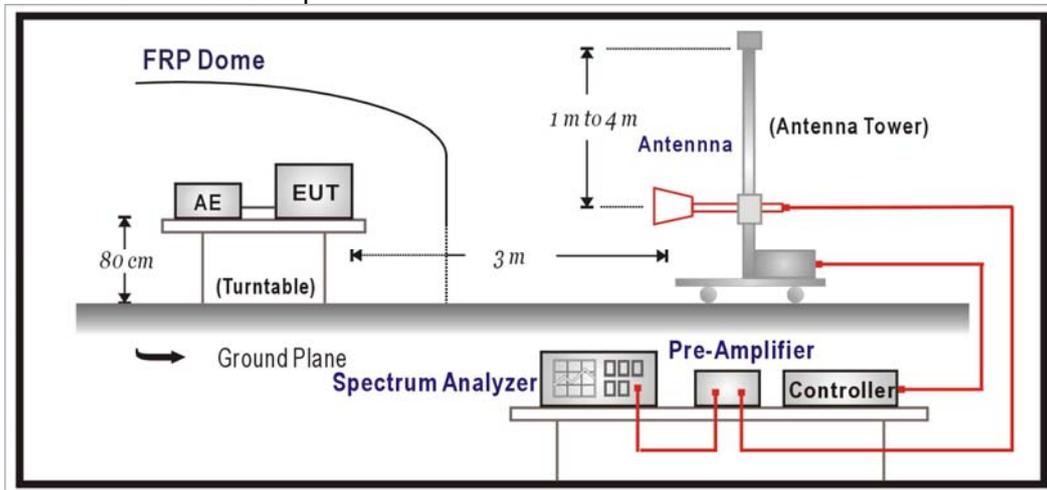
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. "N/A" Ca1.Date is used to Pre-test, not final test.

6.2. Test Setup

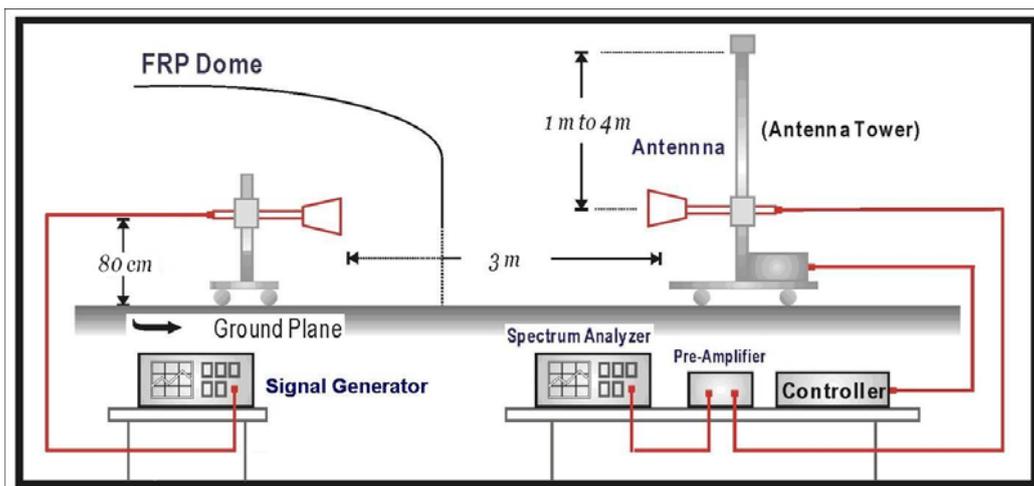
Under 1GHz Test Setup:



Above 1GHz Test Setup:



Substitution Measurement Setup:



6.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB.
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges.

Sample Calculation:

Assume the EUT Output Power is $2\text{ W} = 33\text{ dBm}$

$43 + \log (P)$ dB

$43 + \log (2) = 46\text{ dB}$

$33\text{ dBm} - 46\text{ dB} = -13\text{ dBm}$

$55 + \log (2) = 58\text{ dB}$

$33\text{ dBm} - 58\text{ dB} = -25\text{ dBm}$

6.4. Test Procedure

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

On any frequency, the limits shown are based on measuring equipment employing a peak detector function. The resolution bandwidth of spectrum analyzer is 1MHz. and video bandwidth is 3MHz.

The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

$$\text{E.I.R.P} = \text{Reading Level} + \text{Correct Factor} = \text{S.G.} - \text{Cable Loss} + \text{Antenna Gain}$$

6.5. Uncertainty

The measurement uncertainty

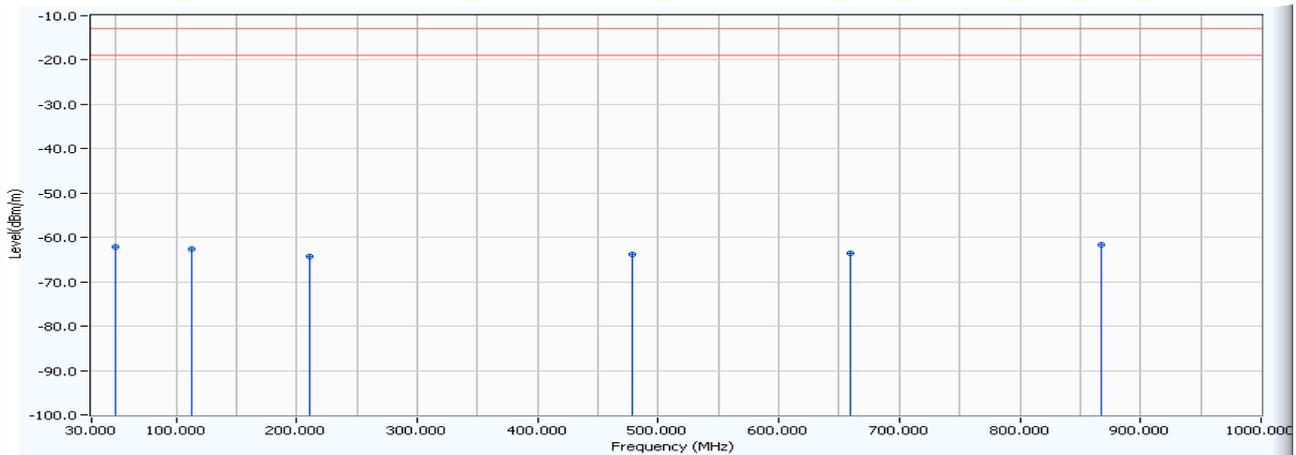
30MHz~1GHz as $\pm 3.19\text{dB}$

1GHz~27GHz as $\pm 3.9\text{dB}$

6.6. Test Result

30 MHz – 1 GHz Spurious:

Site : SITE1	Time : 2008/06/18 - 10:11
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCCC_30-1G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)

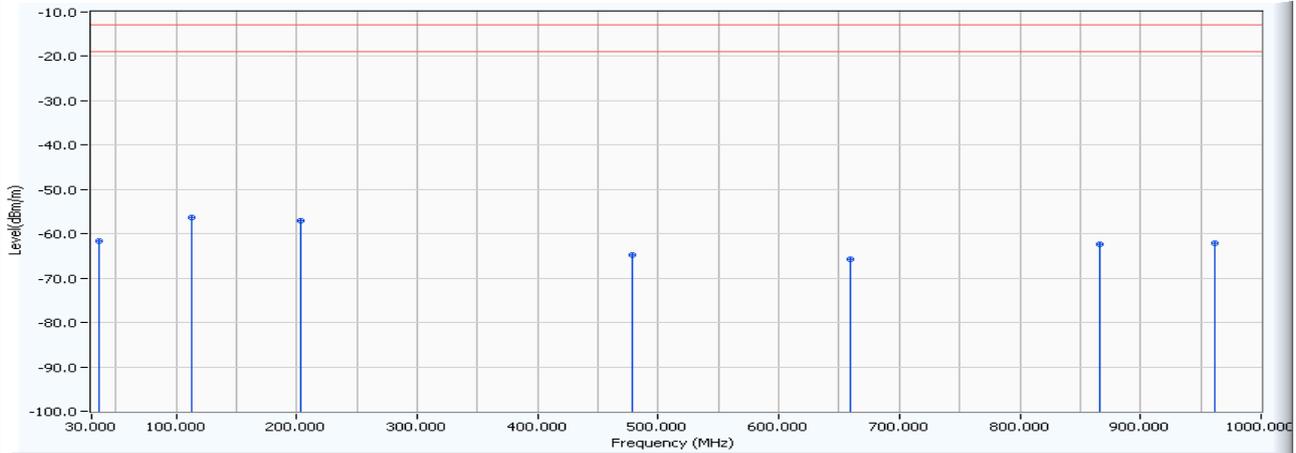


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1	49.439	21.339	-83.371	-62.033	-49.033	-13.000	PEAK
2	113.587	14.800	-77.427	-62.627	-49.627	-13.000	PEAK
3	210.782	6.677	-70.849	-64.172	-51.172	-13.000	PEAK
4	479.038	14.841	-78.562	-63.721	-50.721	-13.000	PEAK
5	659.820	16.427	-79.922	-63.495	-50.495	-13.000	PEAK
6	* 867.816	18.455	-80.022	-61.567	-48.567	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/18 - 10:12
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCCC_30-1G(2007) - VERTICAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)

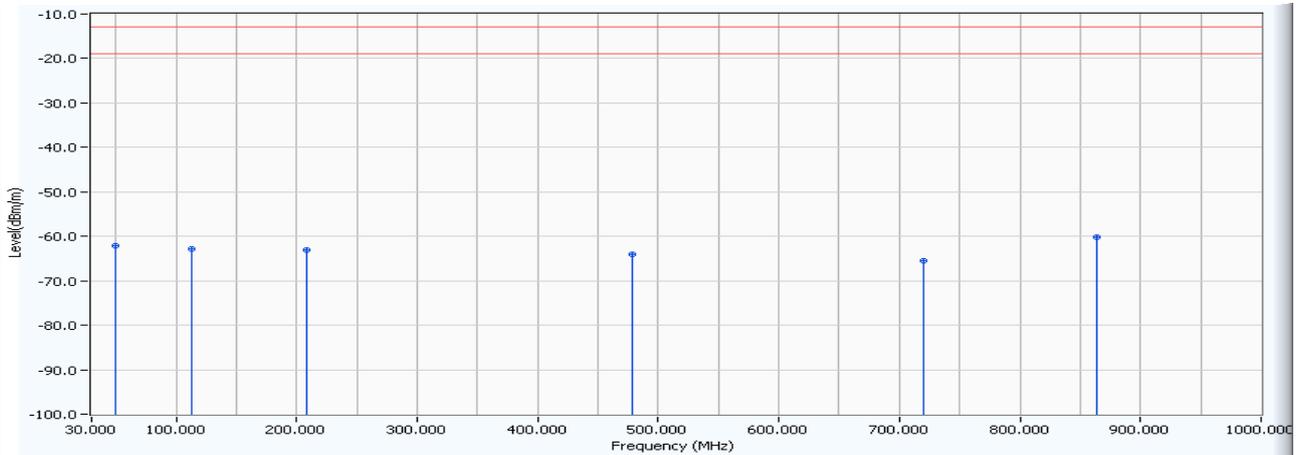


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1	35.832	20.460	-82.127	-61.667	-48.667	-13.000	PEAK
2	* 113.587	16.987	-73.319	-56.332	-43.332	-13.000	PEAK
3	203.006	10.626	-67.630	-57.004	-44.004	-13.000	PEAK
4	479.038	14.944	-79.701	-64.757	-51.757	-13.000	PEAK
5	659.820	16.809	-82.428	-65.619	-52.619	-13.000	PEAK
6	865.872	18.314	-80.727	-62.413	-49.413	-13.000	PEAK
7	961.122	19.629	-81.795	-62.166	-49.166	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/18 - 10:12
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCCC_30-1G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)

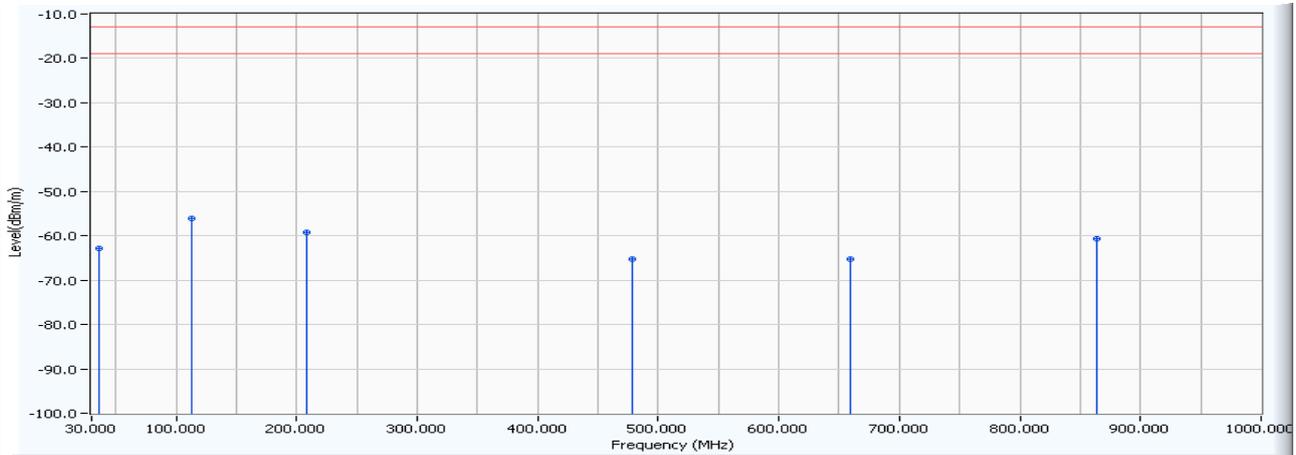


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1	49.439	21.339	-83.560	-62.222	-49.222	-13.000	PEAK
2	113.587	14.800	-77.557	-62.757	-49.757	-13.000	PEAK
3	208.838	6.615	-69.689	-63.074	-50.074	-13.000	PEAK
4	479.038	14.841	-78.901	-64.060	-51.060	-13.000	PEAK
5	720.080	17.207	-82.623	-65.416	-52.416	-13.000	PEAK
6	* 863.928	18.372	-78.469	-60.097	-47.097	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/18 - 10:13
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCCC_30-1G(2007) - VERTICAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)



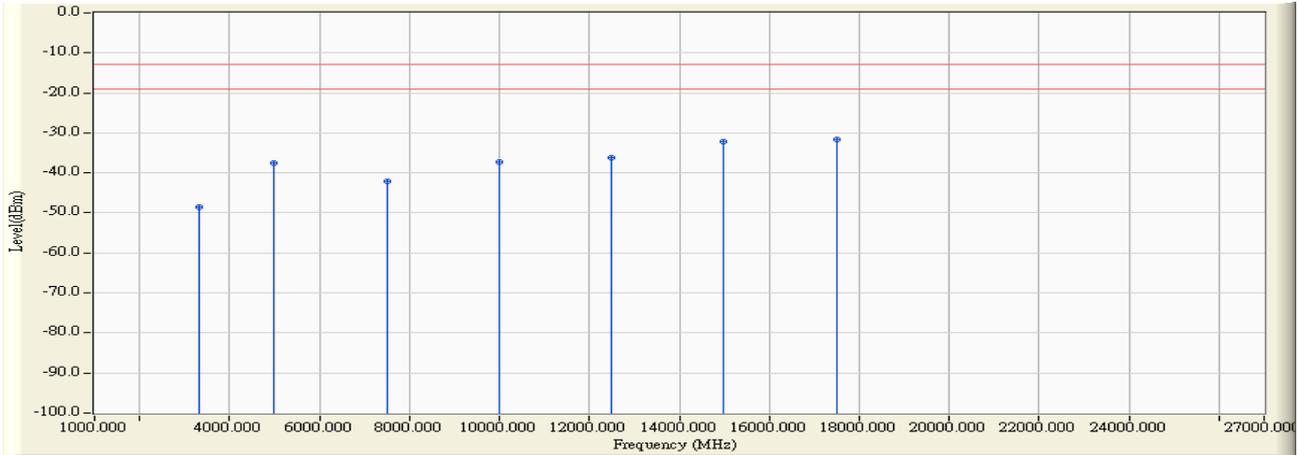
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm/m)	Margin (dB)	Limit (dBm/m)	Detector Type
1		35.832	20.460	-83.358	-62.898	-49.898	-13.000	PEAK
2	*	113.587	16.987	-73.002	-56.015	-43.015	-13.000	PEAK
3		208.838	10.863	-70.020	-59.157	-46.157	-13.000	PEAK
4		479.038	14.944	-80.201	-65.257	-52.257	-13.000	PEAK
5		659.820	16.809	-81.980	-65.171	-52.171	-13.000	PEAK
6		863.928	18.249	-78.959	-60.710	-47.710	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Harmonic & Spurious:

Site : SITE1	Time : 2008/06/16 - 17:39
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2499MHz

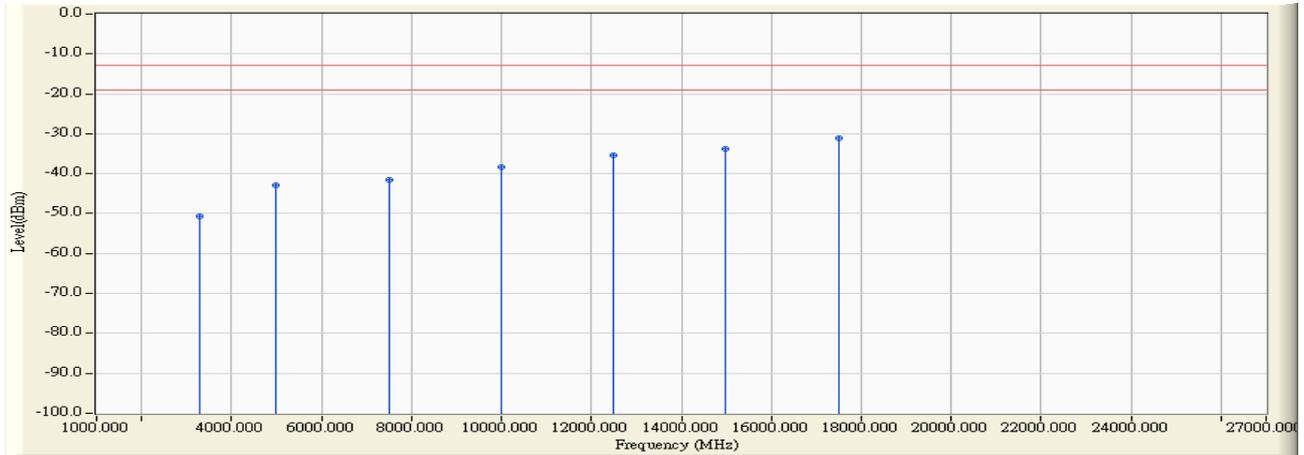


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	3316.630	11.883	-60.360	-48.477	-35.477	-13.000	PEAK
2	4998.000	19.855	-57.480	-37.625	-24.625	-13.000	PEAK
3	7497.000	20.626	-62.830	-42.205	-29.205	-13.000	PEAK
4	9996.000	26.289	-63.550	-37.261	-24.261	-13.000	PEAK
5	12495.000	29.348	-65.500	-36.152	-23.152	-13.000	PEAK
6	14994.000	33.183	-65.400	-32.218	-19.218	-13.000	PEAK
7	* 17493.000	40.095	-71.760	-31.665	-18.665	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:39
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2499MHz

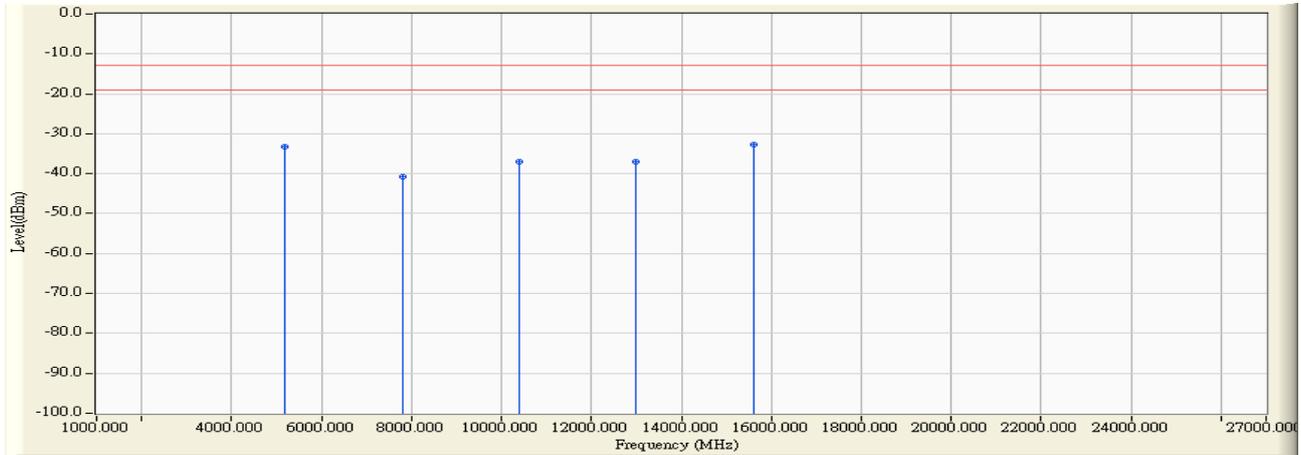


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	3292.560	12.256	-62.890	-50.634	-37.634	-13.000	PEAK
2	4998.000	19.263	-62.160	-42.897	-29.897	-13.000	PEAK
3	7497.000	21.606	-63.160	-41.555	-28.555	-13.000	PEAK
4	9996.000	25.561	-63.930	-38.369	-25.369	-13.000	PEAK
5	12495.000	29.095	-64.530	-35.435	-22.435	-13.000	PEAK
6	14994.000	31.376	-65.230	-33.854	-20.854	-13.000	PEAK
7	* 17493.000	34.511	-65.720	-31.209	-18.209	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:37
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2600MHz

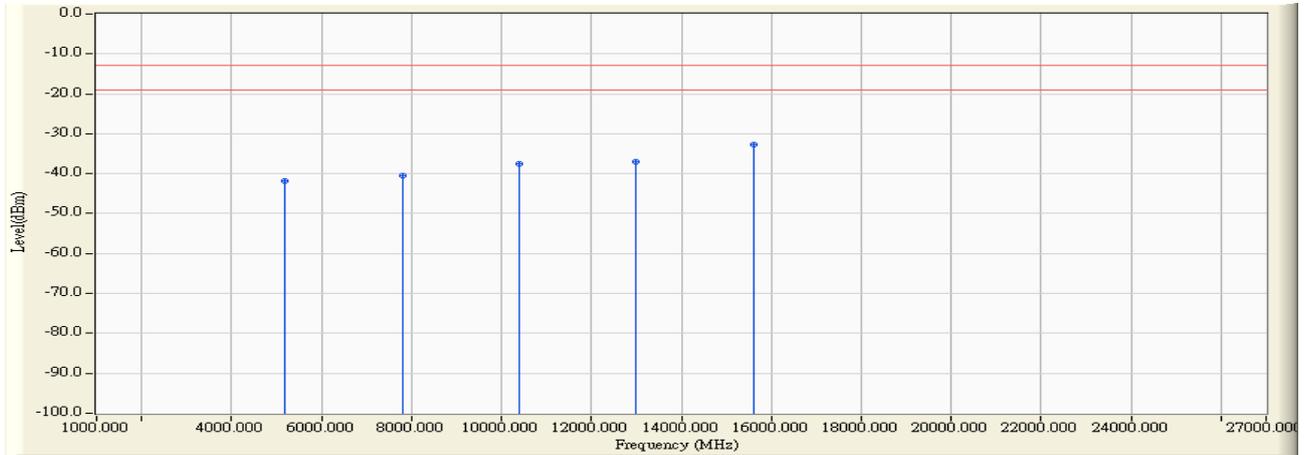


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5200.040	19.750	-52.900	-33.151	-20.151	-13.000	PEAK
2	7800.000	22.080	-62.750	-40.670	-27.670	-13.000	PEAK
3	10400.000	27.086	-64.060	-36.974	-23.974	-13.000	PEAK
4	13000.000	27.607	-64.570	-36.963	-23.963	-13.000	PEAK
5	* 15600.000	33.269	-65.970	-32.701	-19.701	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:38
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2600MHz

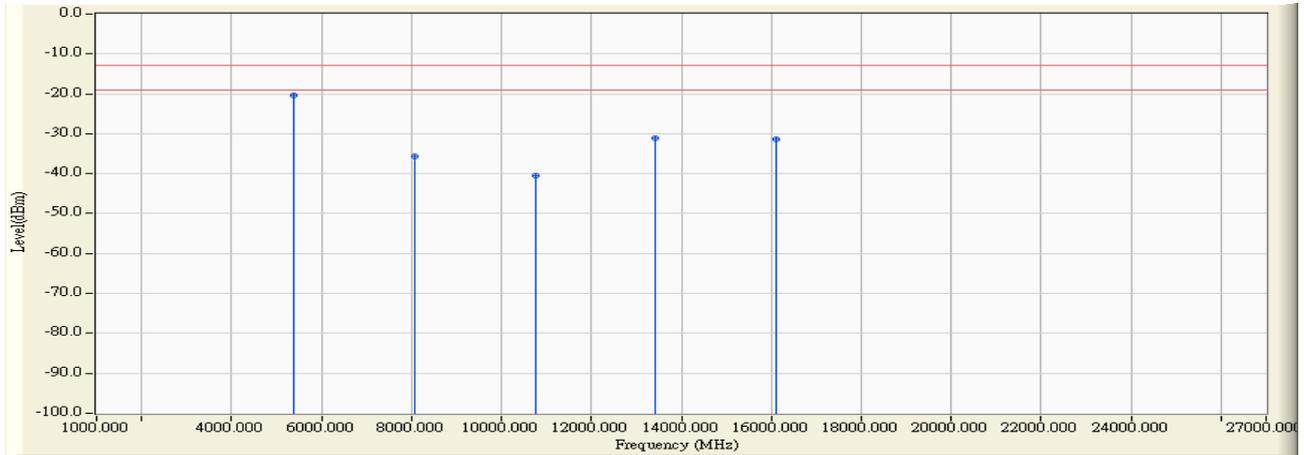


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5200.000	18.245	-60.090	-41.845	-28.845	-13.000	PEAK
2	7800.000	22.080	-62.490	-40.410	-27.410	-13.000	PEAK
3	10400.000	27.086	-64.530	-37.444	-24.444	-13.000	PEAK
4	13000.000	27.607	-64.720	-37.113	-24.113	-13.000	PEAK
5	* 15600.000	33.269	-66.090	-32.821	-19.821	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:32
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2687MHz

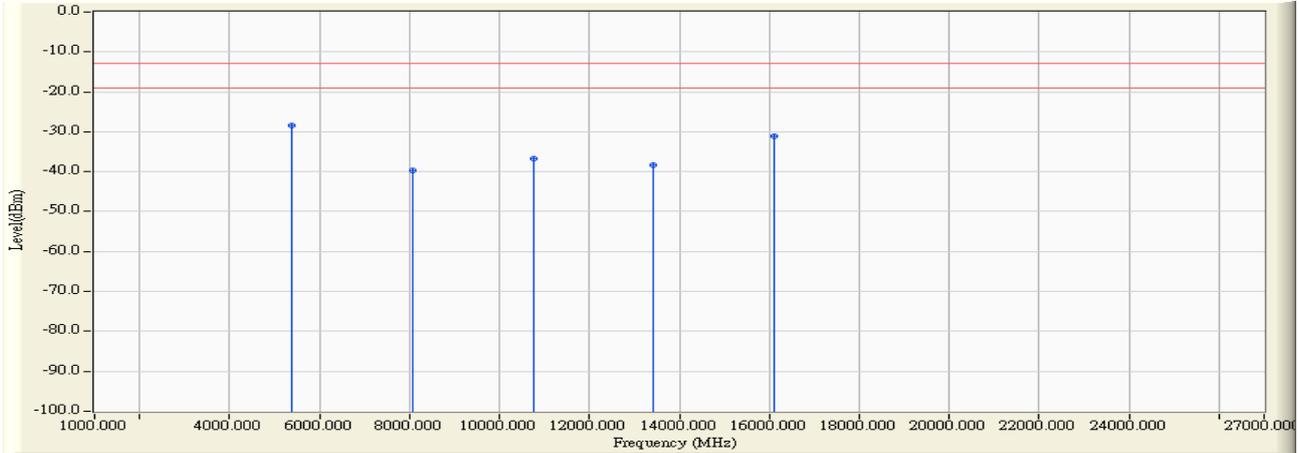


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	5375.030	19.626	-39.940	-20.314	-7.314	-13.000	PEAK
2		8061.000	21.839	-57.500	-35.660	-22.660	-13.000	PEAK
3		10748.000	27.552	-67.960	-40.408	-27.408	-13.000	PEAK
4		13435.000	26.982	-58.050	-31.068	-18.068	-13.000	PEAK
5		16122.000	34.407	-65.820	-31.414	-18.414	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:36
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 1: Transmit (5MHz Bandwidth)-2687MHz

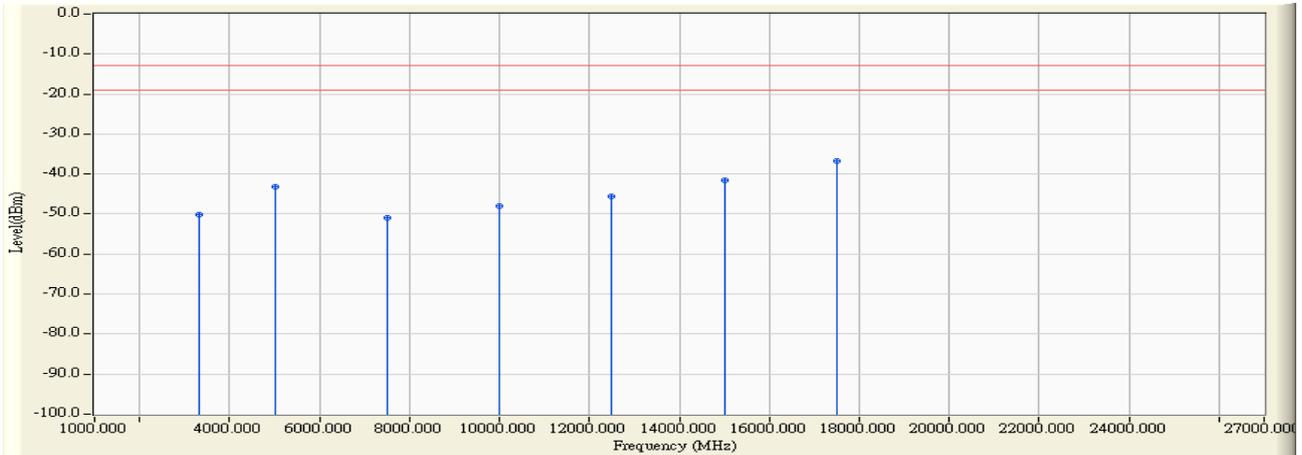


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	5374.850	17.329	-45.820	-28.491	-15.491	-13.000	PEAK
2		8061.000	23.268	-62.890	-39.622	-26.622	-13.000	PEAK
3		10748.000	27.350	-64.050	-36.700	-23.700	-13.000	PEAK
4		13435.000	26.226	-64.440	-38.214	-25.214	-13.000	PEAK
5		16122.000	34.896	-65.990	-31.094	-18.094	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:40
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2501MHz

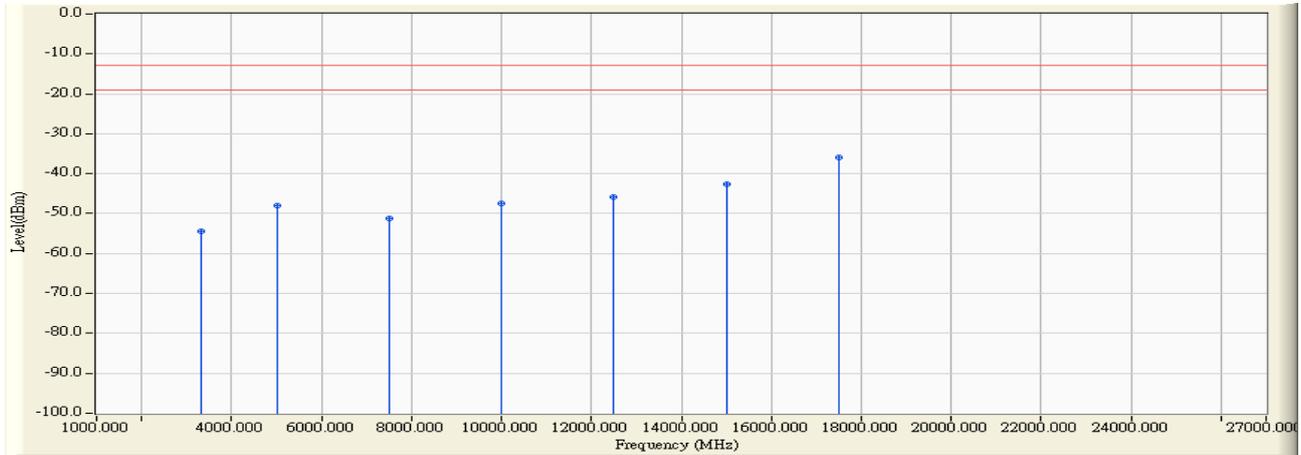


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	3336.000	11.894	-61.930	-50.036	-37.036	-13.000	PEAK
2	5002.000	19.253	-62.480	-43.226	-30.226	-13.000	PEAK
3	7503.000	21.616	-72.510	-50.894	-37.894	-13.000	PEAK
4	10004.000	25.588	-73.680	-48.091	-35.091	-13.000	PEAK
5	12505.000	29.342	-74.870	-45.528	-32.528	-13.000	PEAK
6	15006.000	33.232	-74.730	-41.498	-28.498	-13.000	PEAK
7	* 17507.000	40.260	-77.090	-36.830	-23.830	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:41
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2501MHz

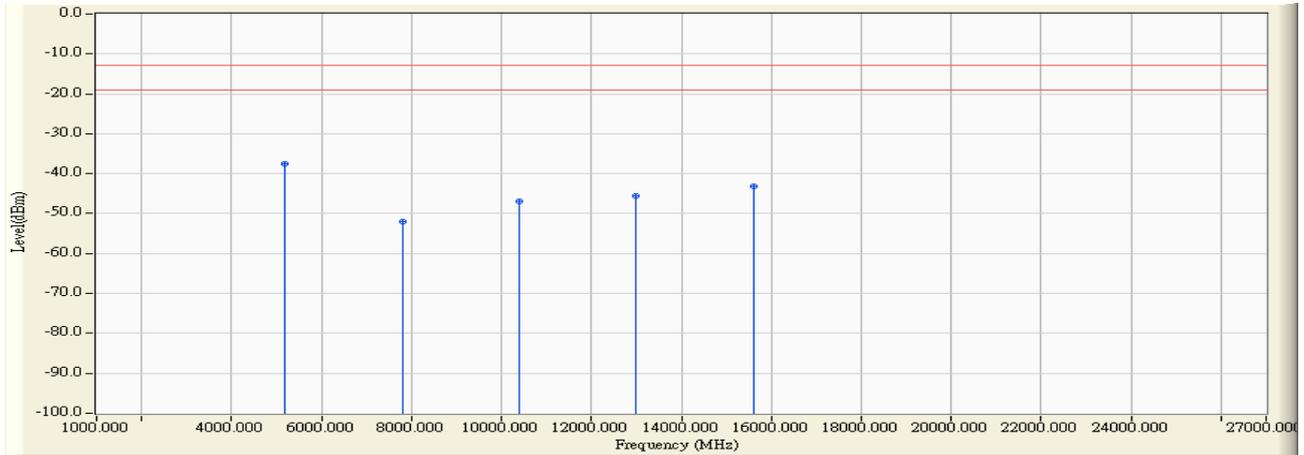


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	3316.630	12.298	-66.670	-54.372	-41.372	-13.000	PEAK
2	5002.000	19.253	-67.340	-48.086	-35.086	-13.000	PEAK
3	7503.000	21.616	-72.870	-51.254	-38.254	-13.000	PEAK
4	10004.000	25.588	-72.920	-47.331	-34.331	-13.000	PEAK
5	12505.000	29.342	-75.250	-45.908	-32.908	-13.000	PEAK
6	15006.000	33.232	-75.770	-42.538	-29.538	-13.000	PEAK
7	* 17507.000	40.260	-76.220	-35.960	-22.960	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:41
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2600MHz

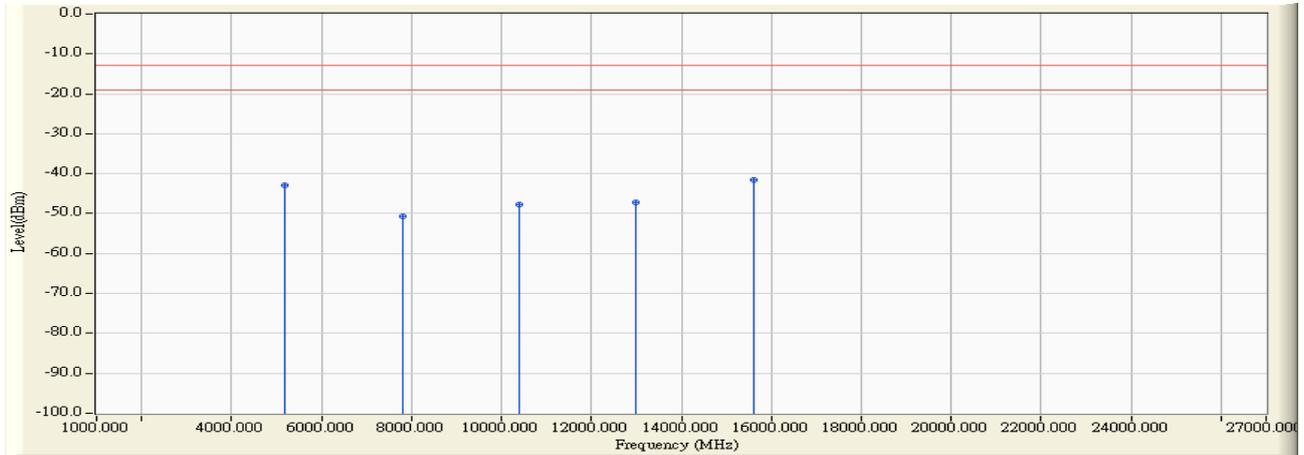


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	5200.000	19.750	-57.190	-37.441	-24.441	-13.000	PEAK
2		7800.000	21.360	-73.480	-52.120	-39.120	-13.000	PEAK
3		10400.000	27.537	-74.580	-47.043	-34.043	-13.000	PEAK
4		13000.000	28.981	-74.430	-45.449	-32.449	-13.000	PEAK
5		15600.000	32.519	-75.790	-43.271	-30.271	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:41
Limit : PART27/PLMN09(Fixed_station)_00M_PK K	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2600MHz

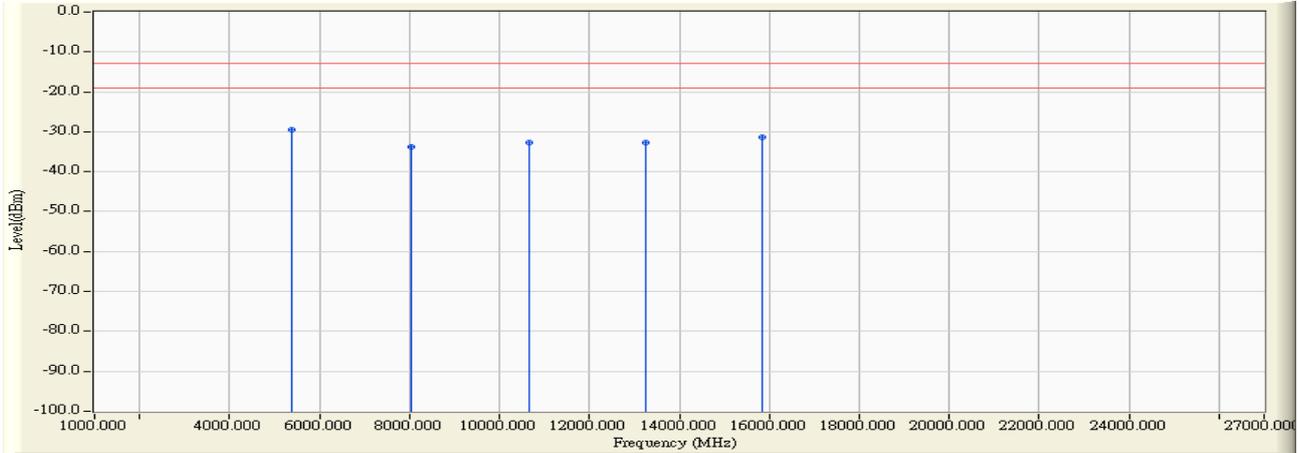


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5200.000	18.245	-61.210	-42.965	-29.965	-13.000	PEAK
2	7800.000	22.080	-72.710	-50.630	-37.630	-13.000	PEAK
3	10400.000	27.086	-74.820	-47.734	-34.734	-13.000	PEAK
4	13000.000	27.607	-74.720	-47.113	-34.113	-13.000	PEAK
5	* 15600.000	33.269	-74.720	-41.451	-28.451	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:42
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - HORIZONTAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2685MHz

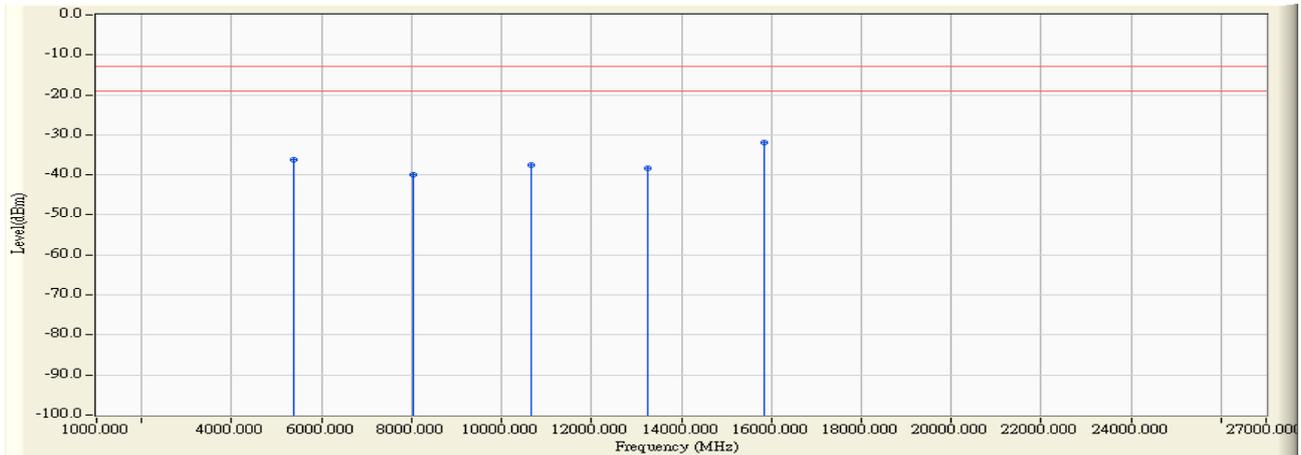


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	5370.000	17.355	-46.880	-29.525	-16.525	-13.000	PEAK
2		8055.000	23.180	-57.000	-33.820	-20.820	-13.000	PEAK
3		10655.000	27.400	-60.050	-32.650	-19.650	-13.000	PEAK
4		13255.000	26.797	-59.620	-32.823	-19.823	-13.000	PEAK
5		15855.000	34.180	-65.650	-31.471	-18.471	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Site : SITE1	Time : 2008/06/16 - 17:43
Limit : PART27/PLMN09(Fixed_station)_00M_PK	Margin : 6
EUT : TU25 USB Modem	Probe : SITE1_FCC_1-18G(2007) - VERTICAL
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)-2685MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5370.000	17.355	-53.470	-36.115	-23.115	-13.000	PEAK
2	8055.000	23.180	-63.170	-39.990	-26.990	-13.000	PEAK
3	10655.000	27.400	-65.000	-37.600	-24.600	-13.000	PEAK
4	13255.000	26.797	-65.170	-38.373	-25.373	-13.000	PEAK
5	* 15855.000	34.180	-66.090	-31.911	-18.911	-13.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. " * ", means this data is the worst emission level.
3. E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

6.7. Test Photo

Test Mode : Mode 1: Transmit (5MHz Bandwidth)

Description : Front View of Radiated Emission Test Setup



Test Mode : Mode 1: Transmit (5MHz Bandwidth)

Description : Back View of Radiated Emission Test Setup



Test Mode : Mode 1: Transmit (5MHz Bandwidth)
Description : Front View of Radiated Emission Test Setup (Horn)



Test Mode : Mode 2: Transmit (10MHz Bandwidth)
Description : Front View of Radiated Emission Test Setup



Test Mode : Mode 2: Transmit (10MHz Bandwidth)
Description : Back View of Radiated Emission Test Setup



Test Mode : Mode 2: Transmit (10MHz Bandwidth)
Description : Front View of Radiated Emission Test Setup (Horn)



7. Frequency Stability Over Temperatures Variation

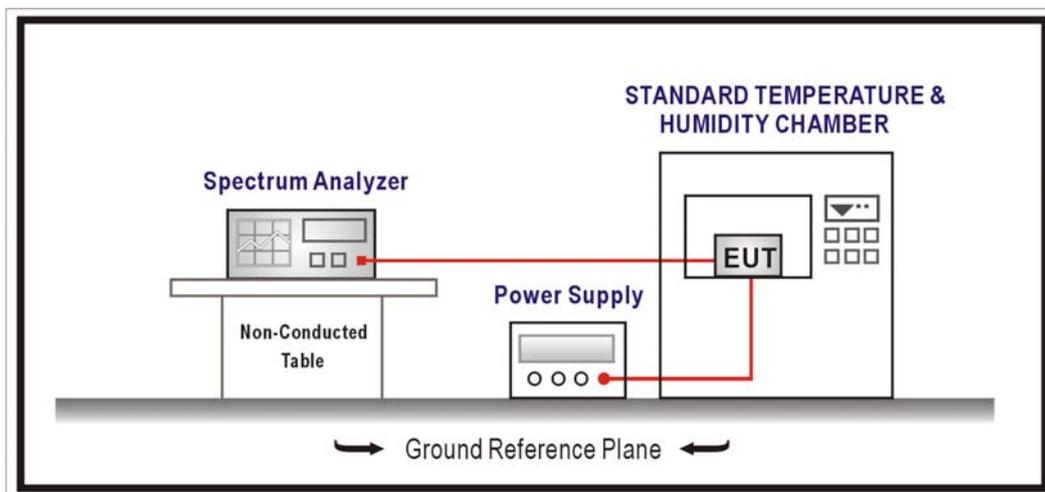
7.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2008
2	STANDARD TEMPERATURE & HUMIDITY CHAMBER	WIT	TH-1S-B / 108210	Feb., 2008

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limits

The frequency stability shall be measured with variation of ambient temperature as follows: From -30° to +50° centigrade for all equipment. Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range.

7.4. Test Procedure

Power must be turned off when changing from one temperature to another. Power warm up is at least 15 min and power applied should perform before recording frequency error. The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

7.5. Uncertainty

The measurement uncertainty is defined as $\pm 100\text{KHz}$

7.6. Test Result

Product	TU25 USB Modem		
Test Item	Frequency Stability Over Temperatures Variation		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Frequency Error Over Temperatures		
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
50	2600.0978	37.615
40	2600.0304	11.695
30	2600.0084	3.231
20	2600.0016	0.615
10	2599.9976	-0.923
0	2600.0000	0.000
-10	2599.9998	-0.077
-20	2600.0002	0.077
-30	2600.0002	0.077

Product	TU25 USB Modem		
Test Item	Frequency Stability Over Temperatures Variation		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Frequency Error Over Temperatures		
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
50	2600.1482	57.000
40	2600.0634	24.385
30	2600.0222	8.538
20	2600.0024	0.923
10	2600.0016	0.615
0	2599.9998	-0.077
-10	2599.9998	-0.077
-20	2600.0000	0.000
-30	2600.0002	0.077

8. Frequency Stability Over Voltage Variation

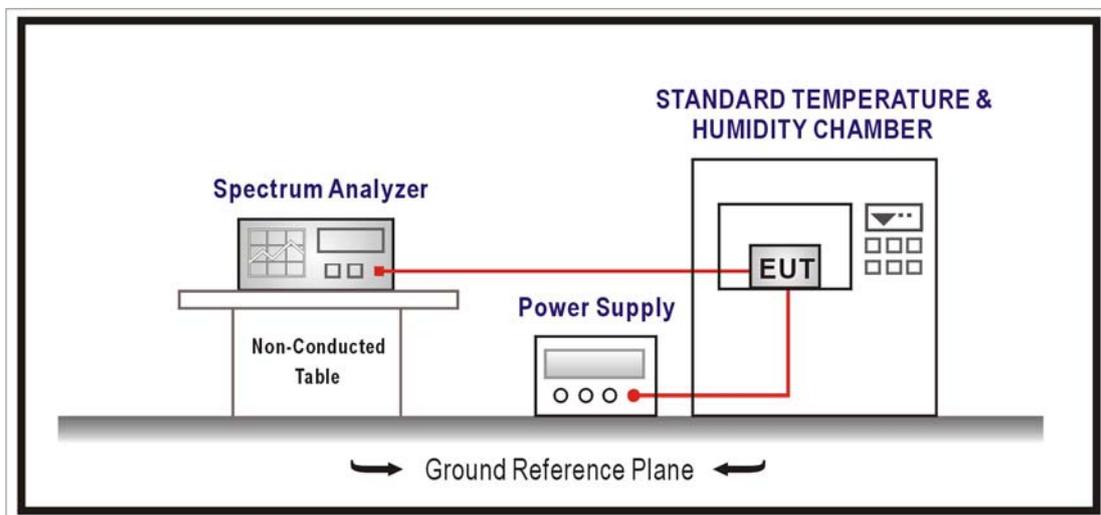
8.1. Test Equipment

The following test equipments are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Jan., 2008
2	STANDARD TEMPERATURE & HUMIDITY CHAMBER	WIT	TH-1S-B / 108210	Feb., 2008

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards..

8.2. Test Setup



8.3. Limits

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

8.4. Test Procedure

Power must be removed when changing from one voltage to another voltage. 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 various Volts set from the minimum 4.5 Volts to 5.5 Volts. Each step shall be record the frequency error rate.

8.5. Uncertainty

The measurement uncertainty is defined as $\pm 100\text{KHz}$.

8.6. Test Result

Product	TU25 USB Modem		
Test Item	Frequency Stability Over Voltage Variation		
Test Mode	Mode 1: Transmit (5MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Frequency Error Over Voltage		
Voltage (Volts)	Frequency (MHz)	Frequency Error (ppm)
5.5	2600.0176	6.769
5	2600.0016	0.615
4.5	2600.0142	5.461

Product	TU25 USB Modem		
Test Item	Frequency Stability Over Voltage Variation		
Test Mode	Mode 2: Transmit (10MHz Bandwidth)		
Date of Test	2008/03/04	Test Site	No.1 OATS

Frequency Error Over Voltage		
Voltage (Volts)	Frequency (MHz)	Frequency Error (ppm)
5.5	2600.0152	5.846
5	2600.0024	0.923
4.5	2600.0216	8.308

9. AC Conducted Emission

9.1. Test Equipment

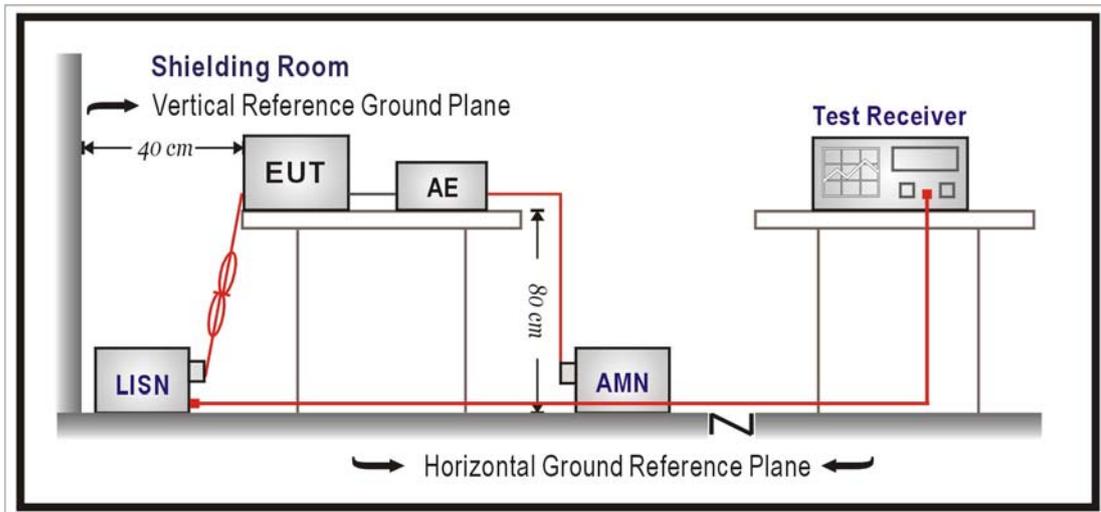
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2007/04/15
Artificial Mains Network	R & S	ENV4200	848411/010	2007/03/13
Double 2-Wire ISN	R & S	ENY 22	835354/008	2007/04/15
LISN	R & S	ESH3-Z5	825562/002	2007/03/31
Pulse Limiter	R & S	ZSH3Z2	357.8810.54	2007/07/19
Test Receiver	R & S	ESCS 30	100122	2008/02/21

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limits

FCC Part 15 Subpart C Paragraph 15.247 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

9.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

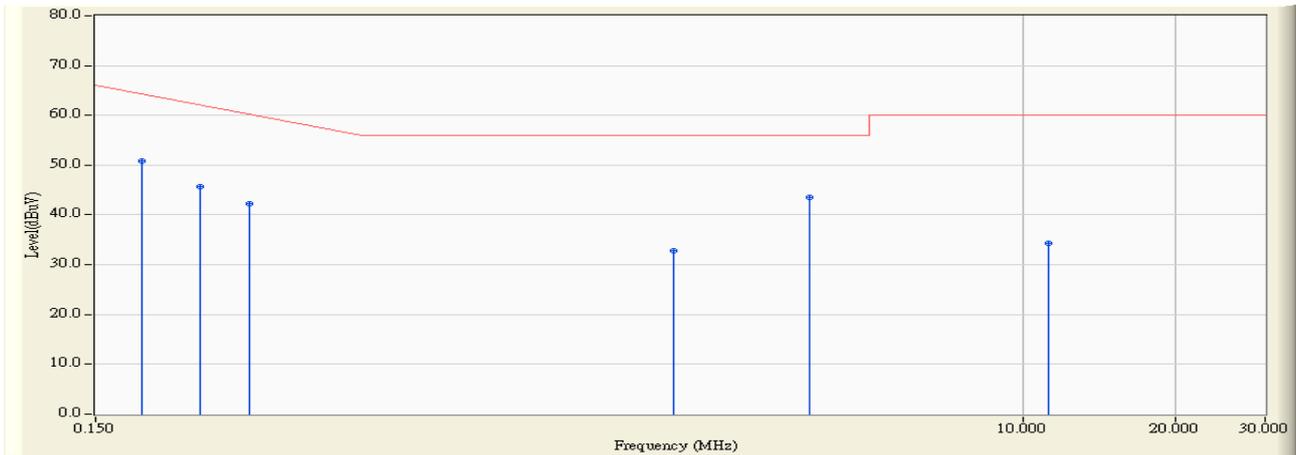
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

9.5. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB

9.6. Test Result

Site : Shielding Room 2	Time : 2008/02/29 - 10:54
Limit : CISPR_B_00M_QP	Margin : 0
EUT : TU25 USB Modem	Probe : QTK-LISN-SR2 - Line1
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)

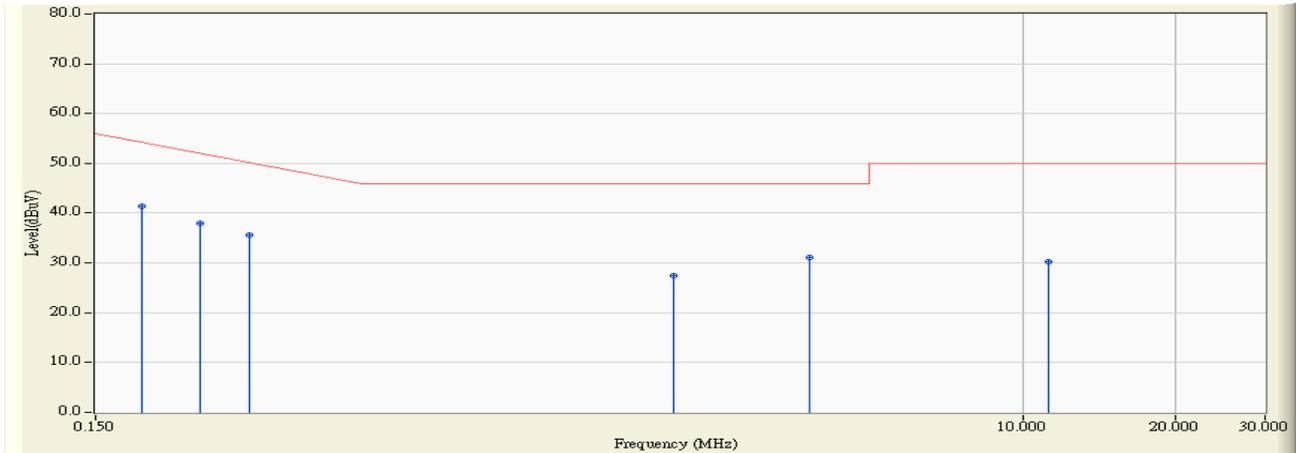


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.185	0.060	50.680	50.740	-14.260	65.000	QUASPEAK
2	0.241	0.060	45.710	45.770	-17.630	63.400	QUASPEAK
3	0.301	0.060	42.100	42.160	-19.526	61.686	QUASPEAK
4	2.053	0.180	32.590	32.770	-23.230	56.000	QUASPEAK
5	* 3.805	0.220	43.370	43.590	-12.410	56.000	QUASPEAK
6	11.226	0.611	33.640	34.251	-25.749	60.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Shielding Room 2	Time : 2008/02/29 - 10:54
Limit : CISPR_B_00M_AV	Margin : 0
EUT : TU25 USB Modem	Probe : QTK-LISN-SR2 - Line1
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)

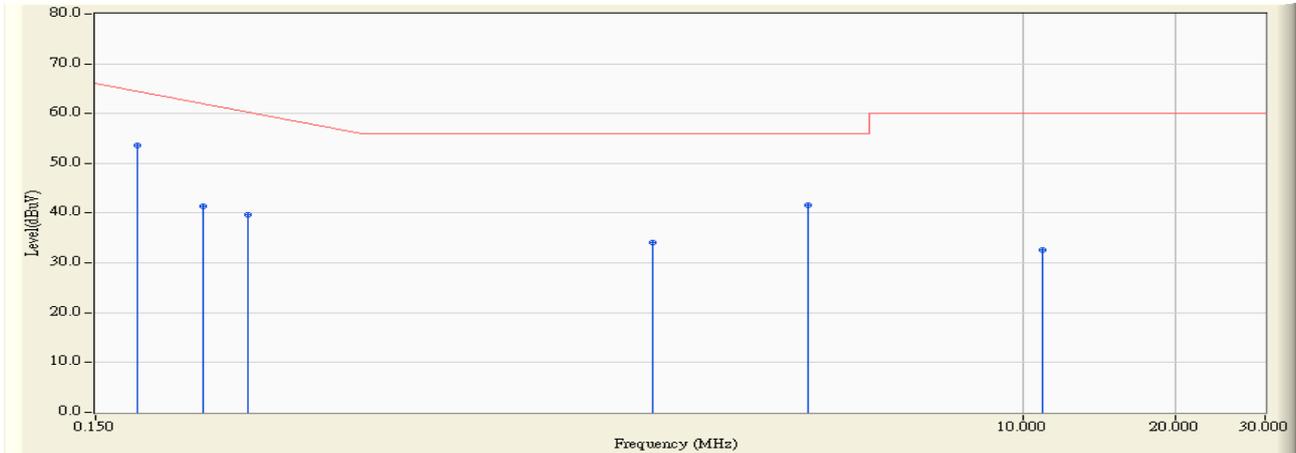


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.185	0.060	41.390	41.450	-13.550	55.000	AVERAGE
2		0.241	0.060	37.840	37.900	-15.500	53.400	AVERAGE
3		0.301	0.060	35.580	35.640	-16.046	51.686	AVERAGE
4		2.053	0.180	27.210	27.390	-18.610	46.000	AVERAGE
5		3.805	0.220	30.910	31.130	-14.870	46.000	AVERAGE
6		11.226	0.611	29.640	30.251	-19.749	50.000	AVERAGE

Note:

1. All Reading Levels are average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Shielding Room 2	Time : 2008/02/29 - 11:00
Limit : CISPR_B_00M_QP	Margin : 0
EUT : TU25 USB Modem	Probe : QTK-LISN-SR2 - Line2
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)

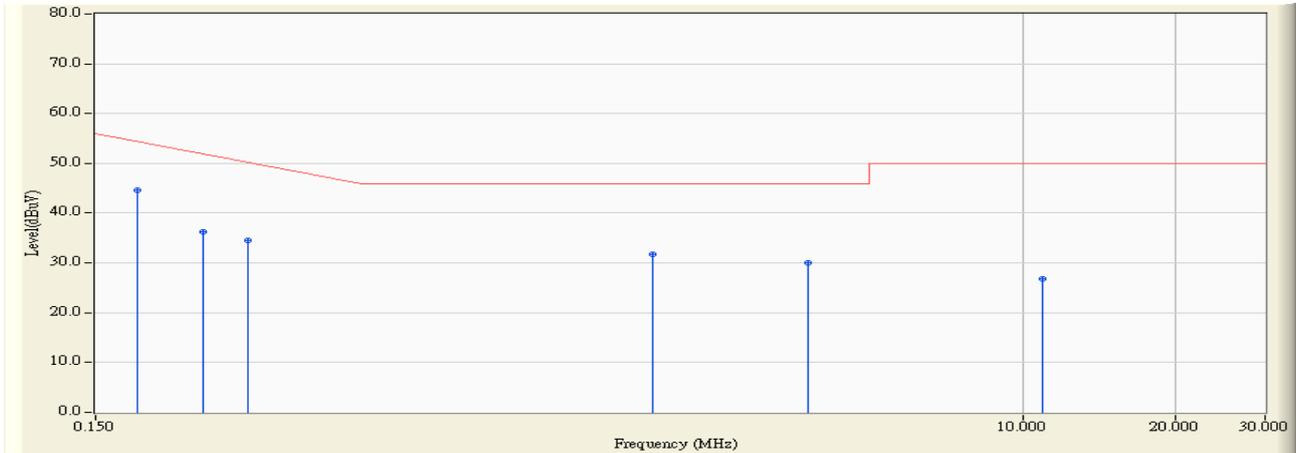


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.181	0.060	53.600	53.660	-11.454	65.114	QUASPEAK
2		0.244	0.060	41.300	41.360	-21.954	63.314	QUASPEAK
3		0.300	0.060	39.560	39.620	-22.094	61.714	QUASPEAK
4		1.868	0.080	33.980	34.060	-21.940	56.000	QUASPEAK
5		3.795	0.210	41.470	41.680	-14.320	56.000	QUASPEAK
6		10.958	0.480	32.050	32.530	-27.470	60.000	QUASPEAK

Note:

1. All Reading Levels are average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Shielding Room 2	Time : 2008/02/29 - 11:00
Limit : CISPR_B_00M_AV	Margin : 0
EUT : TU25 USB Modem	Probe : QTK-LISN-SR2 - Line2
Power : DC 5V	Note : Mode 2: Transmit (10MHz Bandwidth)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.181	0.060	44.460	44.520	-10.594	55.114	AVERAGE
2		0.244	0.060	36.150	36.210	-17.104	53.314	AVERAGE
3		0.300	0.060	34.560	34.620	-17.094	51.714	AVERAGE
4		1.868	0.080	31.650	31.730	-14.270	46.000	AVERAGE
5		3.795	0.210	29.740	29.950	-16.050	46.000	AVERAGE
6		10.958	0.480	26.240	26.720	-23.280	50.000	AVERAGE

Note:

1. All Reading Levels are average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

9.7. Test Photo

Test Mode : Mode 2: Transmit (10MHz Bandwidth)

Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 2: Transmit (10MHz Bandwidth)

Desc

