EMC
TEST REPORT

Report No. : EME-050884
Model No. : XG-650E
Issued Date : Aug. 23, 2005

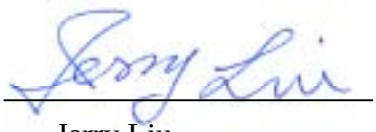
Applicant : Z-Com, Inc.
7F-2, No.9, Prosperity RD. I, Science-Based Industrial Park, Hsinchu, Taiwan

Test By : Intertek Testing Services Taiwan Ltd.
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan

Project Engineer

Marx Yan

Reviewed By



Jerry Liu

Table of Contents

Summary of Tests

WLAN 802.11g HIGH POWER MINI-PCI CARD - Model: XG-650E
FCC ID: M4Y-XG650E

Test	Reference	Results
Maximum Output Power test	15.247(b)	Complies
Radiated Spurious Emission test	15.205, 15.209	Complies

1. General information

1.1 Identification of the EUT

Applicant	: Z-Com, Inc.
Product	: WLAN 802.11g HIGH POWER MINI-PCI CARD
Model No.	: XG-650E
FCC ID.	: M4Y-XG650E
Frequency Range	: 2412MHz ~ 2462MHz
Channel Number	: 11 Channels
Frequency of Each Channel	: 2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz, 2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz
Type of Modulation	: OFDM, DSSS
Rated Power	: 3.3Vdc from Notebook PC
Power Cord	: N/A
Sample Received	: Aug. 11, 2005
Test Date(s)	: Aug. 12, 2005 ~ Aug. 18, 2005

A FCC DoC report has been generated for the client.

1.2 Additional information about the EUT

The EUT is designed for Access Point, Router, ATUR, Printer Server series, IP Camera series and Internet Video Server gives User’s wireless access the web and network resouce without the wire.

The EUT meets special requirements for full modular approval on FCC Public Notice DA 00-1407 and the device is only for OEM integrator, please refer the test result in this report.

1.3 Antenna description

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain : 2.95dBi max
Antenna Type : Dipole antenna
Connector Type : HRS

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.
Notebook PC	DELL	PP01L	CN-06P83-48643-33V-0112

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section §15.205、§15.207、§15.209、§15.247 and ANSI C63.4/2003.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was supplied with 3.3Vdc from Notebook PC.

The EUT added two types of antenna, the difference was listed below:

Antenna	Cable Length
Antenna 1	15cm
Antenna 2	7.5cm

Plug the EUT into Notebook via a mini-PCI to PCMCIA extension card, then turn on the Notebook PC Power and run the test program “Radioscope.exe” under windows OS, which provide by manufacturer.

During conducted emission test, the EUT was in normal mode communicating with AP. While in other test, it worked in the status of continuously transmitting.

With individual verifying, the maximum output power were found at 11Mbps data rate for 802.11b mode and 54Mbps data rate for 802.11g mode. The final tests were executed under these conditions recorded in this report individually.

2.3 Test equipment

Equipment	Brand	Frequency range	Model No.	Intertek ID No.	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	EC303	04/17/2006
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	EC317	07/14/2006
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	EC353	07/13/2006
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	EC365	10/18/2005
Horn Antenna	SCHWARZBECK	1GHz~18GHz	BBHA 9120 D	EC371	12/22/2007
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	EC351	07/08/2007
Bilog Antenna	SCHWARZBECK	25MHz~2GHz	VULB 9168	EC347	12/23/2007
Pre-Amplifier	MITEQ	100MHz~26.5GHz	919981	EC373	12/30/2005
Pre-Amplifier	MITEQ	26GHz~40GHz	828825	EC374	01/28/2006
Wideband Peak Power Meter/ Sensor	Anritsu	100MHz~18GHz	ML2497A/ MA2491A	EC396	10/18/2005
Controller	HDGmbH	N/A	CM 100	EP346	N/A
Antenna Tower	HDGmbH	N/A	MA 240	EP347	N/A
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5	EC344	01/13/2006

Note: 1. The above equipments are within the valid calibration period.
2. The test antennas (receiving antenna) are calibration per 3 years.

3. Maximum Output Power test

3.1 Operating environment

Temperature: 25 ℃
Relative Humidity: 60 %
Atmospheric Pressure: 1023 hPa

3.2 Test setup & procedure

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Power was read directly and cable loss correction (1.2 dB) was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel).

3.3 Measured data of Maximum Output Power test results

Test Mode: 802.11b (DSSS Modulation) operating mode

Channel	Freq. (MHz)	C.L. (dB)	Reading (dBm)	Conducted Peak Output Power		Limit (dBm)
				(dBm)	(mW)	
1 (lowest)	2412	1.2	17.90	19.10	81.28	30
6 (middle)	2437	1.2	17.70	18.60	72.44	30
11 (highest)	2462	1.2	17.80	19.00	79.43	30

Test Mode: 802.11g (OFDM Modulation) operating mode

Channel	Freq. (MHz)	C.L. (dB)	Reading (dBm)	Conducted Peak Output Power		Limit (dBm)
				(dBm)	(mW)	
1 (lowest)	2412	1.2	20.50	21.70	147.91	30
6 (middle)	2437	1.2	20.30	21.50	141.25	30
11 (highest)	2462	1.2	20.40	21.60	144.54	30

Remark:
Conducted Peak Output Power = Reading + C.L.

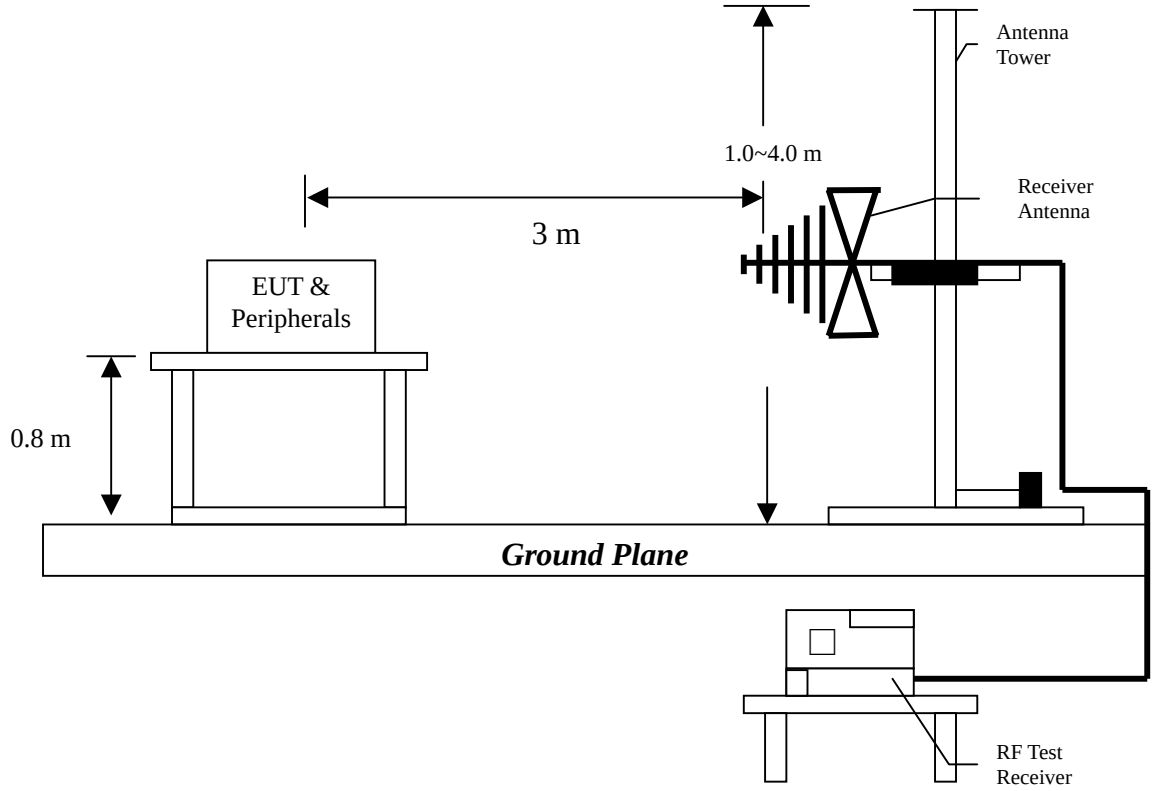
4. Radiated Emission test

4.1 Operating environment

Temperature:	25	℃
Relative Humidity:	60	%
Atmospheric Pressure:	1023	hPa

4.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were invested cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report.
The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent 3 meter reading using inverse scaling with distance.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

4.3 Emission limits

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:
1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of radiated emission measurement is 4.98 dB.

4.4 Radiated spurious emission test data

The radiated spurious emissions at

Frequency(MHz)	Margin
194.900	-4.17
189.080	-1.54
200.720	-3.68
385.020	-4.88

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

4.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11b continuously transmitting mode. Channel 1, 6, 11 were verified. The worst case occurred at 802.11b Tx channel 1.

EUT : XG-650E
Worst Case : 802.11b Tx at channel 1

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
V	194.900	QP	12.00	27.33	39.33	43.50	-4.17	400	158
V	297.720	QP	13.95	15.07	29.02	46.00	-16.98	358	333
V	385.020	QP	16.40	17.62	34.02	46.00	-11.98	234	226
V	414.120	QP	16.47	15.59	32.06	46.00	-13.94	228	179
V	443.220	QP	17.64	15.80	33.44	46.00	-12.56	205	269
V	495.600	QP	18.43	14.12	32.55	46.00	-13.46	183	87
H	189.080	QP	11.34	30.62	41.96	43.50	-1.54	100	173
H	200.720	QP	10.78	29.05	39.83	43.50	-3.68	100	255
H	363.680	QP	15.48	20.21	35.69	46.00	-10.32	100	11
H	385.020	QP	16.74	24.38	41.12	46.00	-4.88	100	355
H	414.120	QP	16.81	20.89	37.70	46.00	-8.30	100	18
H	443.220	QP	18.12	18.37	36.49	46.00	-9.51	100	91

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

The radiated spurious emissions at

Frequency(MHz)	Margin
194.900	-3.99
192.960	-2.38

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

The test was performed on EUT under 802.11g continuously transmitting mode. Channel 1, 6, 11 were verified. The worst case occurred at 802.11g Tx channel 1.

EUT : XG-650E
Worst Case : 802.11g Tx at channel 1

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
V	165.800	QP	15.70	17.04	32.74	43.50	-10.76	400	298
V	194.900	QP	12.00	27.51	39.51	43.50	-3.99	400	83
V	231.760	QP	12.18	21.53	33.71	46.00	-12.29	400	127
V	385.020	QP	16.40	14.68	31.08	46.00	-14.92	231	169
V	526.640	QP	19.46	12.79	32.25	46.00	-13.75	165	149
V	829.280	QP	23.62	9.36	32.98	46.00	-13.02	104	305
H	165.800	QP	13.84	21.59	35.43	43.50	-8.08	100	272
H	192.960	QP	11.27	29.86	41.13	43.50	-2.38	100	147
H	332.640	QP	14.40	21.38	35.78	46.00	-10.23	100	282
H	365.620	QP	15.48	25.32	40.80	46.00	-5.21	100	289
H	385.020	QP	16.74	23.53	40.27	46.00	-5.73	100	79
H	398.600	QP	16.74	19.78	36.52	46.00	-9.48	100	207

Remark:
1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

4.4.2 Measurement results: frequency above 1GHz

EUT : XG-650E
Test Condition : 802.11b Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2412	PK	V	-	30.31	82.18	112.49	-	-	119	152
*2412	AV	V	-	30.31	73.44	103.75	-	-	119	152
2038	PK	V	-	30.31	32.05	62.36	92.49	-30.13	127	135
2038	AV	V	-	30.31	28.89	59.2	83.75	-24.55	127	135
*2412	PK	H	-	30.31	68.67	98.98	-	-	130	160
*2412	AV	H	-	30.31	60.26	90.57	-	-	130	160
2038	PK	H	-	30.31	32.95	63.26	78.98	-15.72	125	130
2038	AV	H	-	30.31	29.17	59.48	70.57	-11.09	125	130

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : XG-650E
Test Condition : 802.11b Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2437	PK	V	-	30.31	81.73	112.04	-	-	115	150
*2437	AV	V	-	30.31	73.21	103.52	-	-	115	150
2063	PK	V	-	30.31	32.81	63.12	92.04	-28.92	122	130
2063	AV	V	-	30.31	28.2	58.51	83.52	-25.01	122	130
*2437	PK	H	-	30.31	68.13	98.44	-	-	125	155
*2437	AV	H	-	30.31	59.76	90.07	-	-	125	155
2063	PK	H	-	30.31	32.92	63.23	78.44	-15.21	130	125
2063	AV	H	-	30.31	29.62	59.93	70.07	-10.14	130	125

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : XG-650E
Test Condition : 802.11b Tx at channel 11

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2462	PK	V	-	30.31	80.13	110.44	-	-	110	145
*2462	AV	V	-	30.31	72.05	102.36	-	-	110	145
2088	PK	V	-	30.31	32.53	62.84	90.44	-27.6	120	125
2088	AV	V	-	30.31	28.78	59.09	82.36	-23.27	120	125
*2462	PK	H	-	30.31	68.46	98.77	-	-	125	155
*2462	AV	H	-	30.31	59.66	89.97	-	-	125	155
2088	PK	H	-	30.31	31.36	61.67	78.77	-17.1	130	125
2088	AV	H	-	30.31	26.97	57.28	69.97	-12.69	130	125

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : XG-650E
Test Condition : 802.11g Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2412	PK	V	-	30.31	79.77	110.08	-	-	125	145
*2412	AV	V	-	30.31	67.21	97.52	-	-	125	145
2038	PK	V	-	30.31	31.71	62.02	90.08	-28.06	118	110
2038	AV	V	-	30.31	27.38	57.69	77.52	-19.83	118	110
*2412	PK	H	-	30.31	67.55	97.86	-	-	125	150
*2412	AV	H	-	30.31	54.09	84.4	-	-	125	150
2038	PK	H	-	30.31	31.49	61.8	77.86	-16.06	115	115
2038	AV	H	-	30.31	26.67	56.98	64.4	-7.42	115	115

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : XG-650E
Test Condition : 802.11b Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2437	PK	V	-	30.31	79.58	109.89	-	-	120	155
*2437	AV	V	-	30.31	67.22	97.53	-	-	120	155
2063	PK	V	-	30.31	33.93	64.24	89.89	-25.65	110	130
2063	AV	V	-	30.31	30.17	60.48	77.53	-17.05	110	130
*2437	PK	H	-	30.31	67.9	98.21	-	-	135	180
*2437	AV	H	-	30.31	54.87	85.18	-	-	135	180
2063	PK	H	-	30.31	31.1	61.41	78.21	-16.8	130	120
2063	AV	H	-	30.31	25.69	56	65.18	-9.18	130	120

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

EUT : XG-650E
Test Condition : 802.11b Tx at channel 11

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Ant. high (cm)	Turn Table angle (degree)
*2462	PK	V	-	30.31	81.09	111.4	-	-	128	145
*2462	AV	V	-	30.31	67.72	98.03	-	-	128	145
2088	PK	V	-	30.31	32.52	62.83	91.4	-28.57	110	140
2088	AV	V	-	30.31	28.3	58.61	78.03	-19.42	110	140
*2462	PK	H	-	30.31	68.04	98.35	-	-	130	150
*2462	AV	H	-	30.31	54.46	84.77	-	-	130	150
2088	PK	H	-	30.31	28.89	59.2	78.35	-19.15	125	110
2088	AV	H	-	30.31	21.47	51.78	64.77	-12.99	125	110

Remark:
1. “*”: Fundamental Frequency
2. Corrected Level = Reading + Correction Factor－Preamp
3. Correction Factor = Antenna Factor + Cable Loss
4. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is :

For PK:
1GHz-3GHz: 20dBuV
3GHz-14GHz: 27dBuV
14GHz-26.5GHz: 39dBuV

For AV:
1GHz-3GHz: 10dBuV
3GHz-14GHz: 16dBuV
14GHz-26.5GHz: 28dBuV

5. Emission on the band edge

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.1 Operating environment

Temperature:	23	℃
Relative Humidity:	60	%
Atmospheric Pressure	1023	hPa

5.2 Test setup & procedure

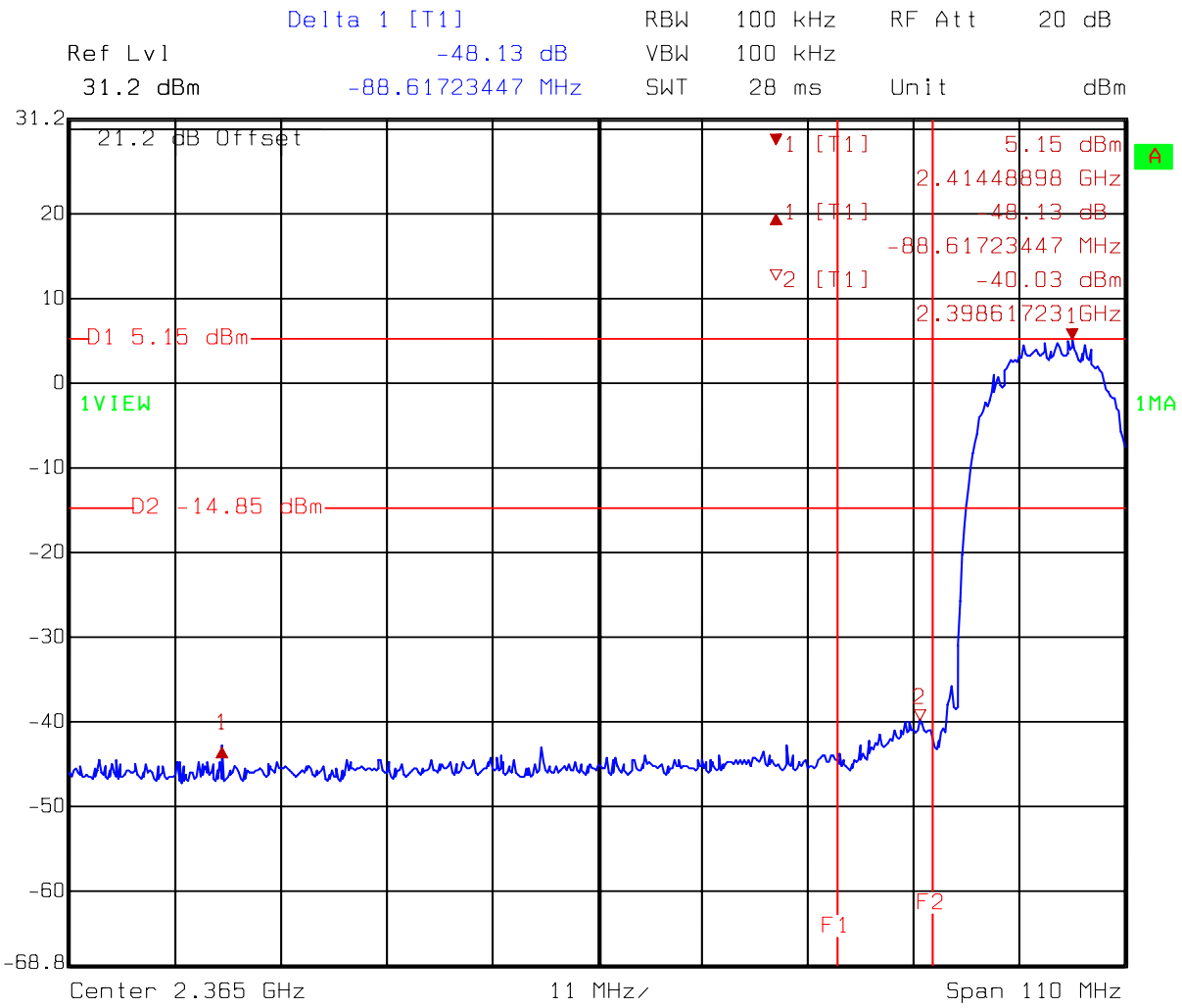
The output of EUT was connected to spectrum analyzer via a 50ohm cable.

The setting of spectrum analyzer is:

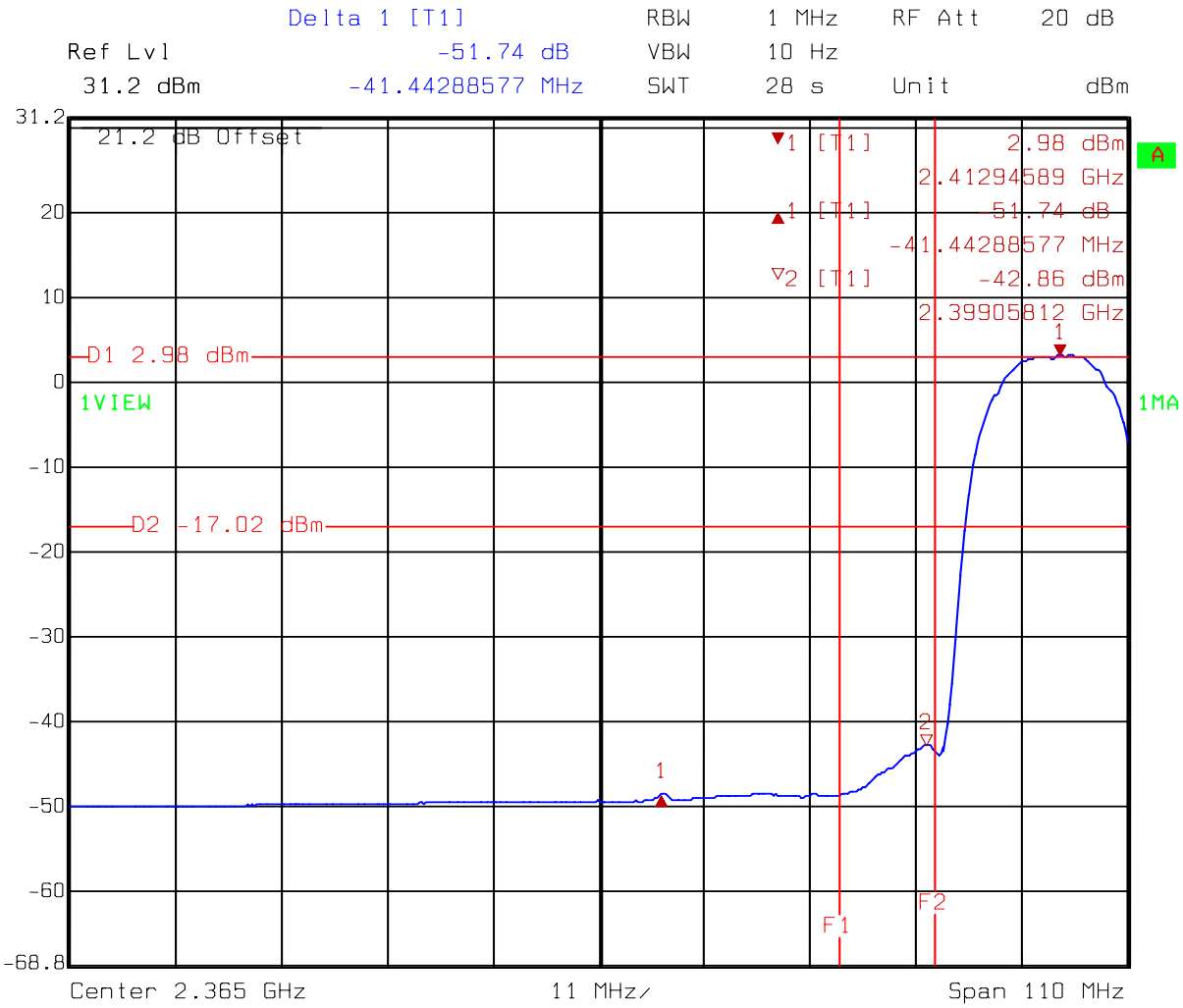
Peak:	RBW = 100kHz ;	VBW = 100kHz
Average:	RBW = 1MHz ;	VBW = 10Hz

Please see the test plot below.

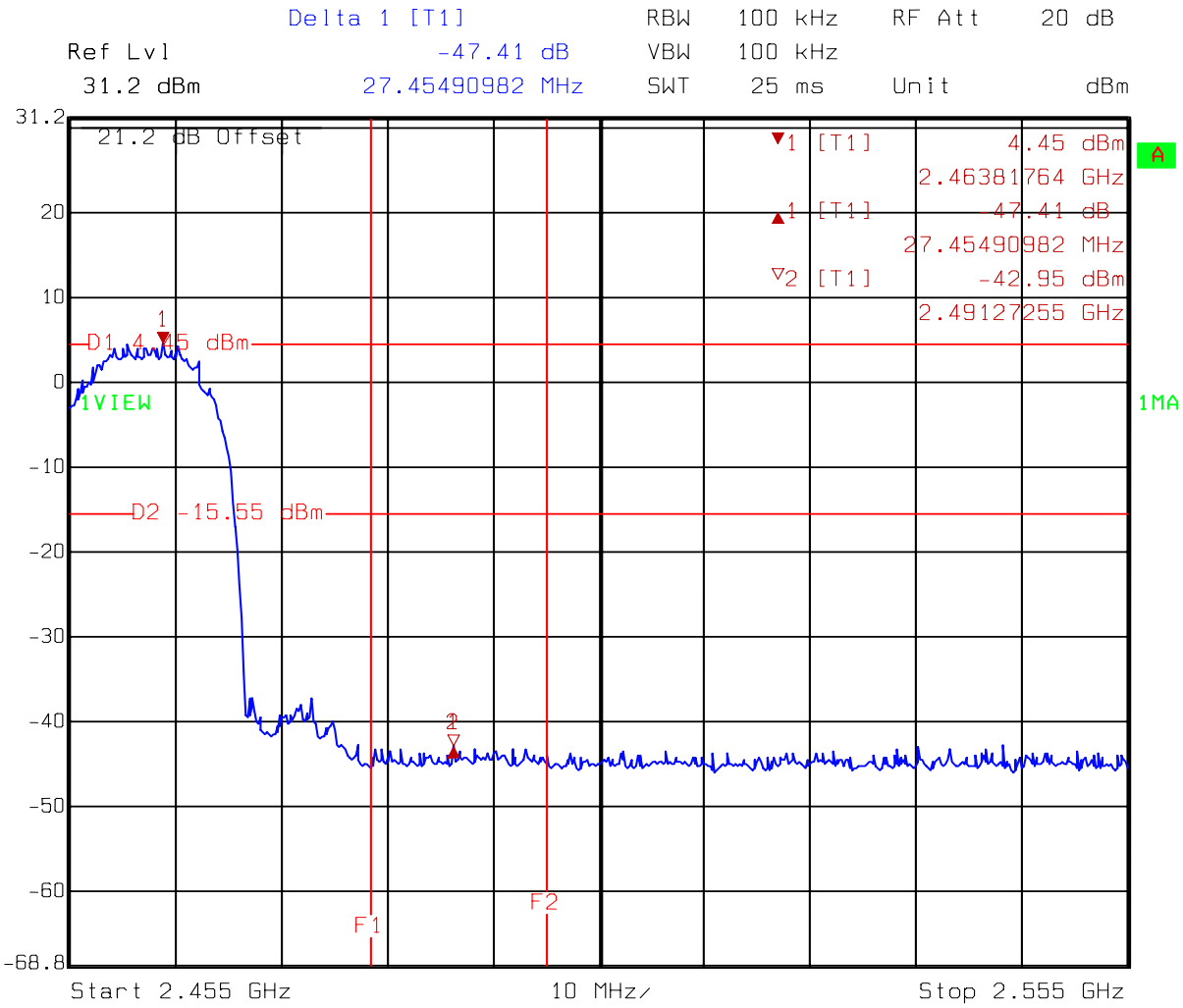
Test Mode: 802.11b (DSSS Modulation) operating mode



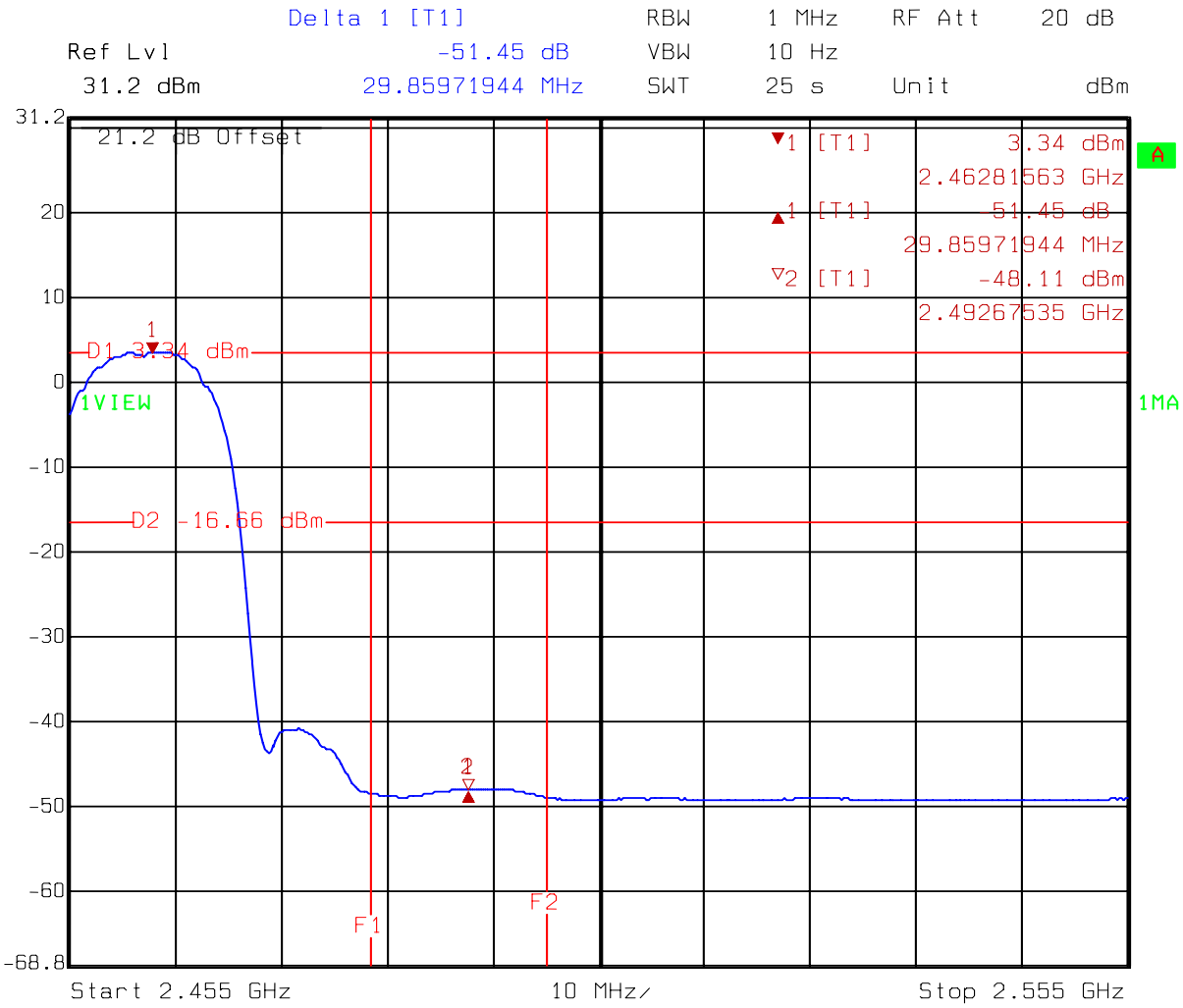
Comment A: Band-edge at 802.11b CH1
F1=2390MHz, F2=2400MHz
Date: 18.AUG.2005 10:20:21



Comment A: Band-edge at ch1 (EC365) 802.11b
F1=2390MHz, F2=2400MHz
Date: 18.AUG.2005 10:24:13

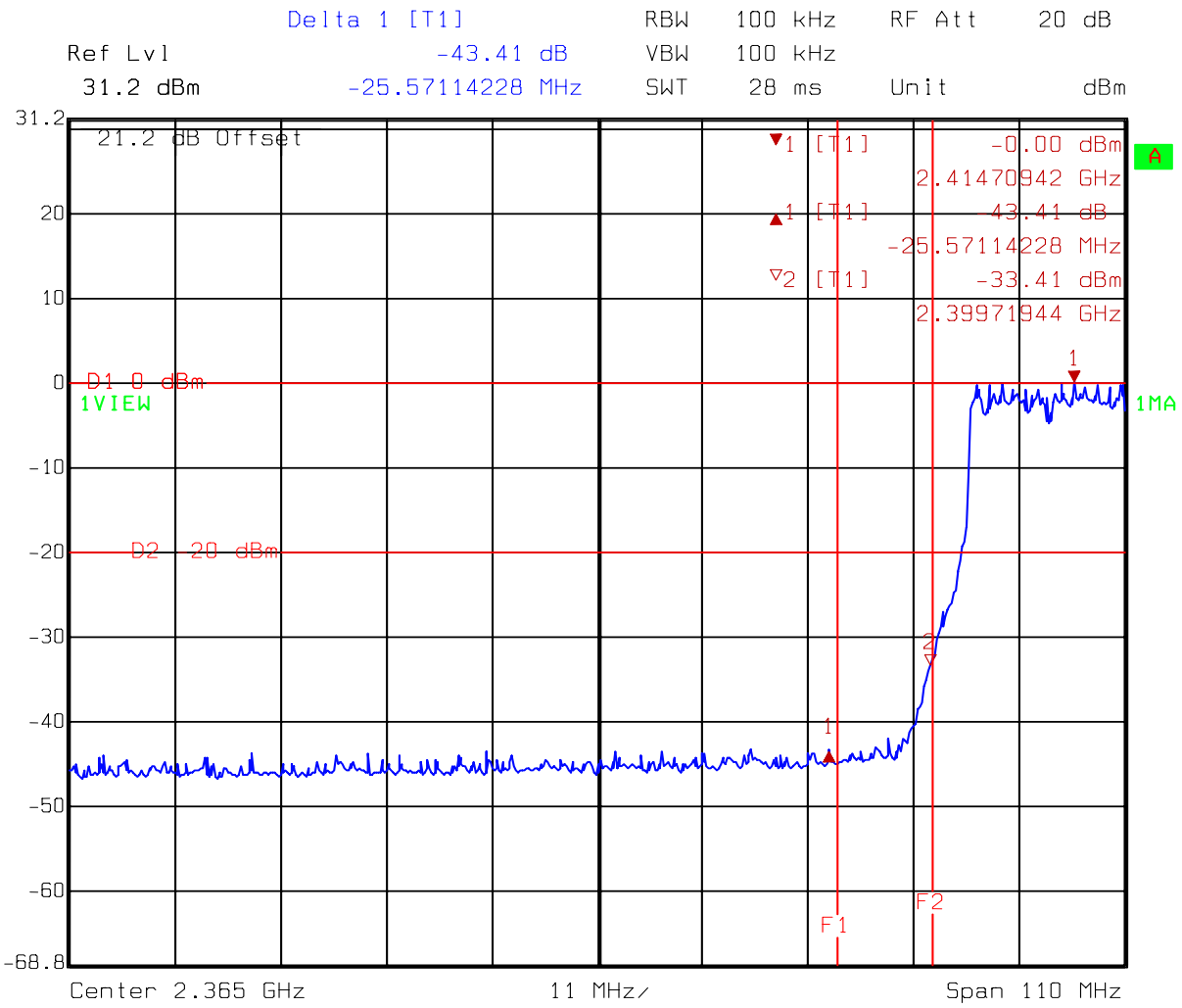


Comment A: Band-edge at 802.11b CH11
F1=2483.5MHz, F2=2500MHz
Date: 18.AUG.2005 10:37:51

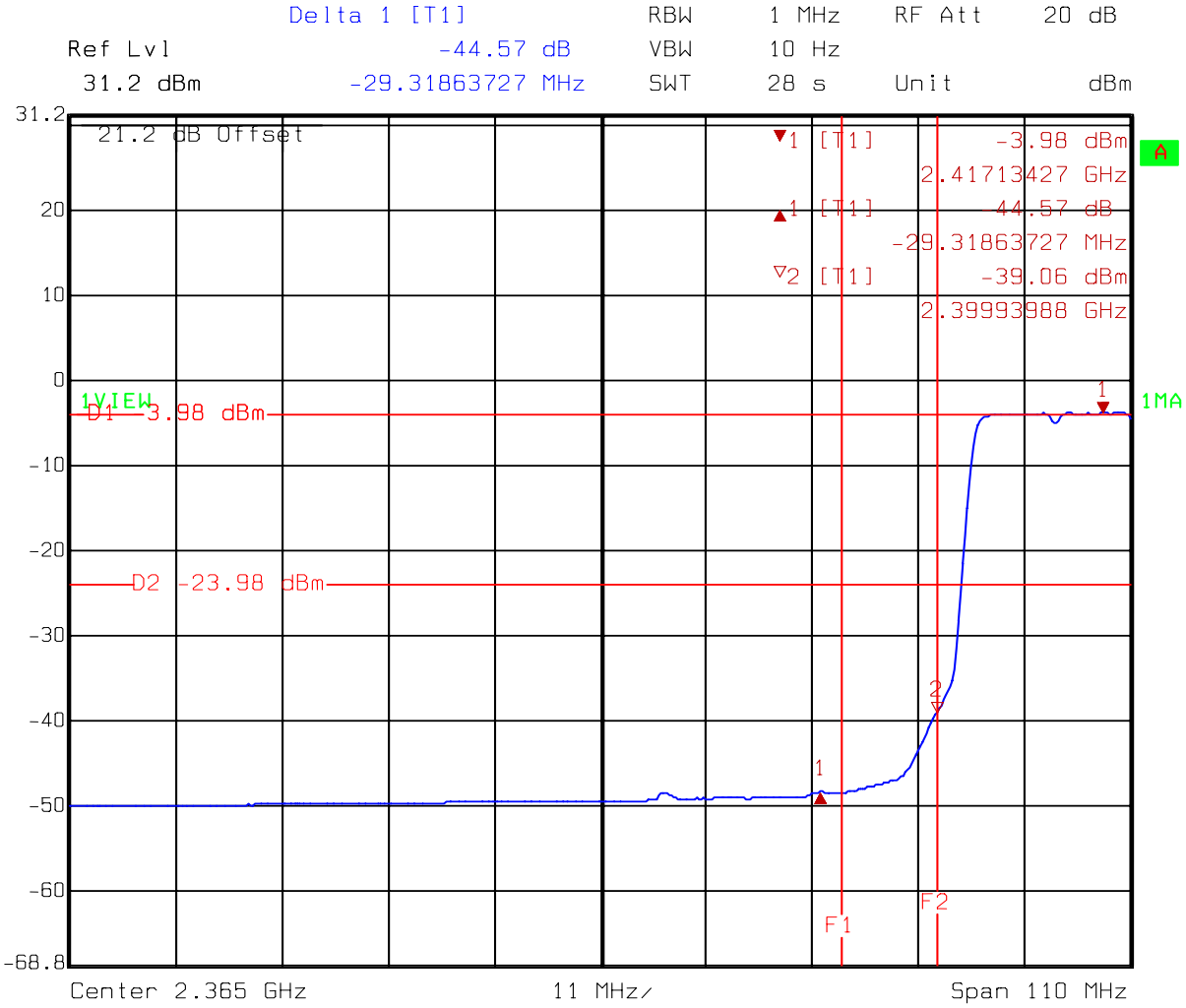


Comment A: Band-edge at 802.11b CH11
F1=2483.5MHz, F2=2500MHz
Date: 18.AUG.2005 10:42:28

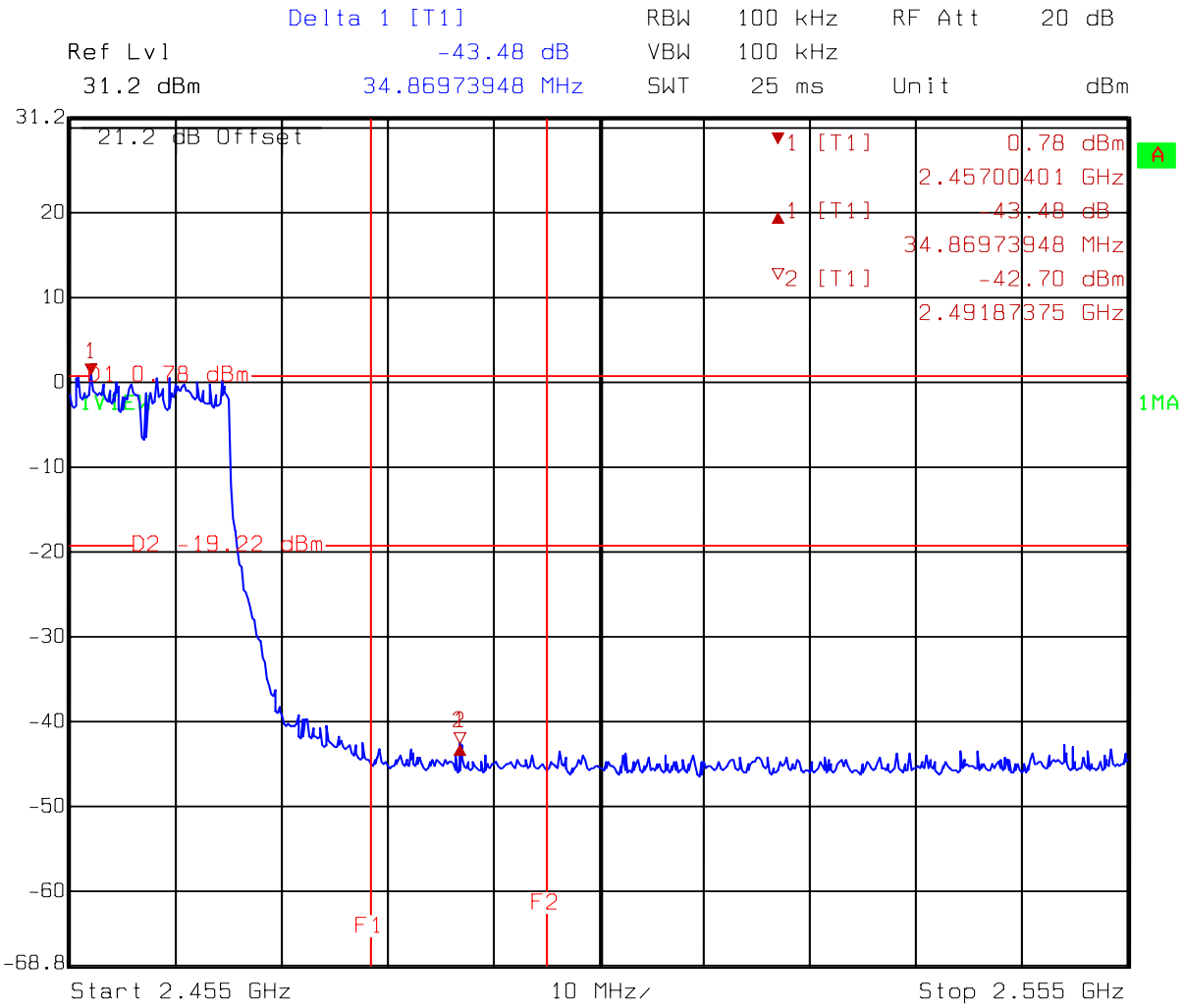
Test Mode: 802.11g (OFDM Modulation) operating mode



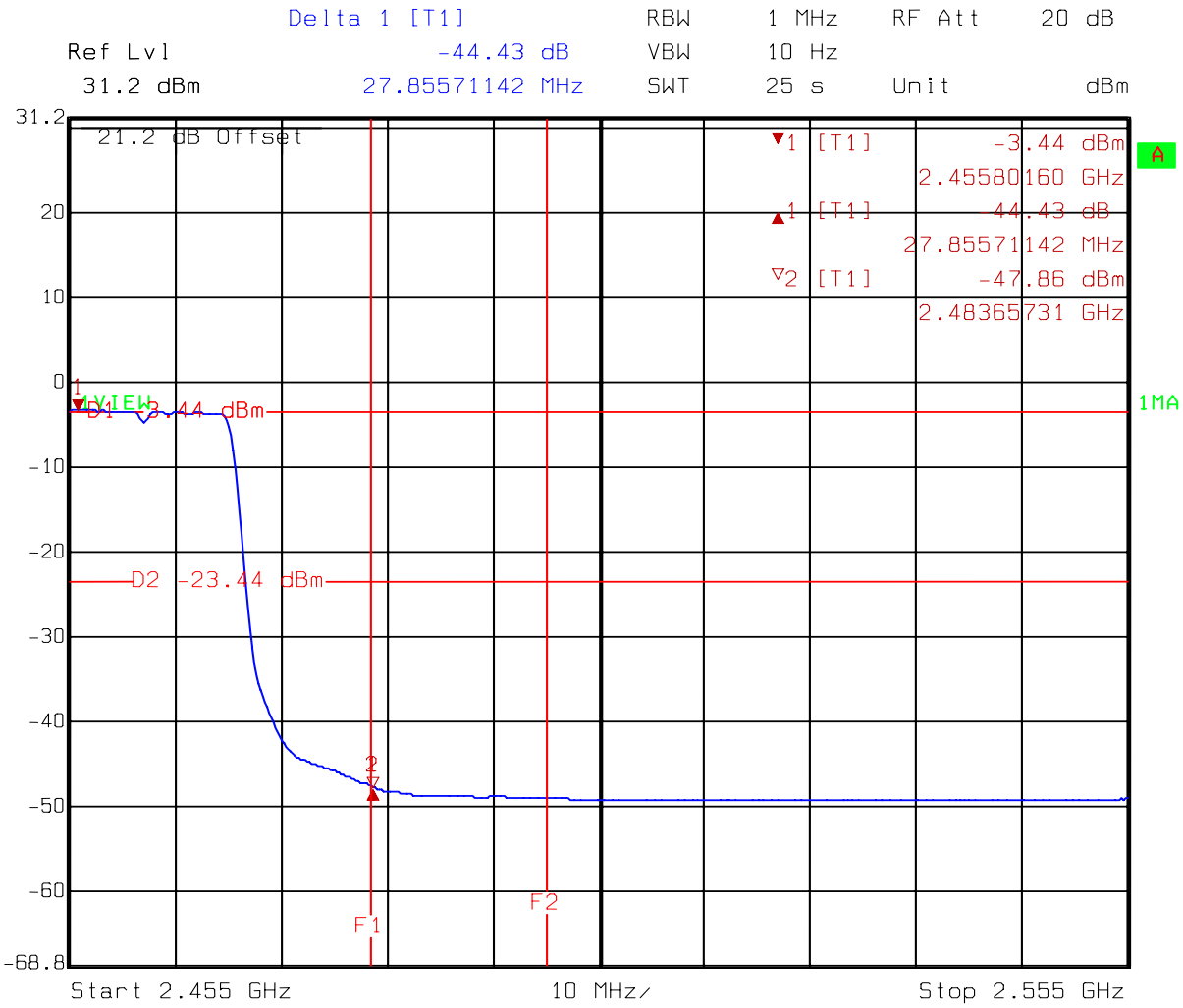
Comment A: Band-edge at 802.11g CH1
F1=2390MHz, F2=2400MHz
Date: 18.AUG.2005 10:26:33



Comment A: Band-edge at 802.11g CH1
F1=2390MHz, F2=2400MHz
Date: 18.AUG.2005 10:28:38



Comment A: Band-edge at 802.11g CH11
F1=2483.5MHz, F2=2500MHz
Date: 18.AUG.2005 10:44:10



Comment A: Band-edge at 802.11g CH11
F1=2483.5MHz, F2=2500MHz
Date: 18.AUG.2005 10:46:17

5.3 Test Result

Test Mode: 802.11b (DSSS Modulation) operating mode

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental @3m (dBuV/m)	Between Carrier Max. Power and Local Max. Emission in Restrict Band (dBc)			
		A	B	C	D	E
1 (lowest)	PK	112.49	48.13	64.36	74	-9.64
	AV	103.75	51.74	52.01	54	-1.99
11 (highest)	PK	110.44	47.41	63.03	74	-10.97
	AV	102.36	51.45	50.91	54	-3.09

Remark: 1. C = A – B
2. E = C – D

Test Mode: 802.11g (OFDM Modulation) operating mode

Channel	Detector	Radiated Method	Conducted Method	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
		Max. Field Strength of Fundamental @3m (dBuV/m)	Between Carrier Max. Power and Local Max. Emission in Restrict Band (dBc)			
		A	B	C	D	E
1 (lowest)	PK	110.08	43.41	66.67	74	-7.33
	AV	97.52	44.57	52.95	54	-1.05
11 (highest)	PK	111.40	43.48	67.92	74	-6.08
	AV	98.03	44.43	53.60	54	-0.40

Remark: 1. C = A – B
2. E = C – D