

FCC PART 15.247

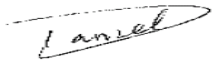
EMI MEASUREMENT AND TEST REPORT

For

NMB TECHNOLOGIES CORP.

9730 Independence Ave.,
Chatsworth, CA 91311

FCC ID: AQ6-CP267789

This Report Concerns: ☒ Original Report	Equipment Type: 2.4GHz Wireless Keyboard
Test Engineer: Snell Leong	
Report No.: R0509161	
Report Date: 2005-10-05	
Reviewed By: Daniel Deng 	
Prepared By: Bay Area Compliance Laboratory Corporation (BACL) 230 Commercial Street Sunnyvale, CA 94085 Tel: (408) 732-9162 Fax: (408) 732 9164	

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *NMB TECHNOLOGIES CORP.*, FCC ID: AQ6-CP267789, or the “EUT” as referred to in this report is a 2.4GHz Wireless Keyboard, which measures approximately 435mmL x 170mmW x 30mmH. The EUT operates at the frequency range of 2402– 2479MHz, with maximum output power of 0.54mW (-2.67dBm).

The emission designator is 1M55G1D.

** The test data gathered are from a production sample, S/N: 001, provided by the manufacturer.*

Objective

This type approval report is prepared on behalf of *NMB TECHNOLOGIES CORP.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B, C.

Related Submittal(s)/Grant(s)

No Related Submittals

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003& TIA/EIA-603.

Test Facility

The Open Area Test site used by BACL to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA with registration number: 90464.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm>

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.4-2003.

The EUT was tested in the normal (native) operating mode to represent *worst-case* results during the final qualification test.

Special Accessories

As shown in following test block diagram, all interface cables used for compliance testing are shielded.

Schematics / Block Diagram

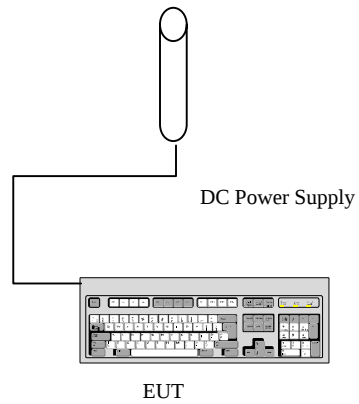
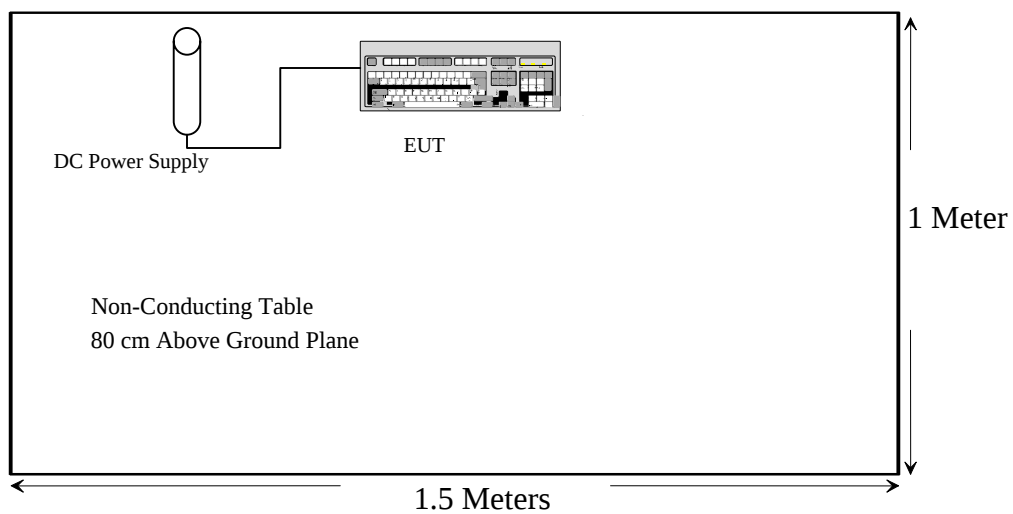
Please refer to Appendix A.

Equipment Modifications

No modifications were made to the EUT.

EUT Configuration Details

Manufacturer	Description	Model	Serial Number	FCC ID
NMB	2.4Ghz Transceiver	CP267789	001	None

Configuration of Test System**Test Setup Block Diagram**

SUMMARY OF TEST RESULTS FOR FCC PART 15

FCC RULES	DESCRIPTION OF TEST	RESULT
§2.1091	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant
§ 15.207 (a)	AC Conducted Emissions	N/A
§2.1051	Spurious Emission at Antenna Port	Compliant
§15.209 (a)	Radiated Emission	Compliant
§15.247 (a)(2)	6 dB Bandwidth	Compliant
§15.247 (b)(3)	Maximum Peak Output Power	Compliant
§ 15.247 (d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247 (e)	Peak Power Spectral Density	Compliant

§1.1307(b)(1) & §2.1091 - RF EXPOSURE

According to §15.247(b)(5) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Test Result

The output power we measured was 0.54 mW, we considered the device met the RF exposure requirement.

ANTENNA REQUIREMENT

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to § 15.247 (1), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna connectors are designed with permanent attachment and no consideration of replacement.

The antenna gain = 2dBi (peak)

§15.205 & §15.209 - RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ± 4.0 dB.

Test Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with ANSI C63.4-2003. The specification used was the FCC 15 Subpart C limits.

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR §15.33 (a) (1), the system was tested to 25GHz. During the radiated emission test, the spectrum analyzer was set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
Below 30MHz	10kHz	10kHz
30 – 1000MHz	100kHz	100kHz
Above 1000MHz	1MHz	1MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Amplifier, Pre (1~26.5GHz)	8449B	3147A00400	2004-10-05
Sunol Science	Antenna	JB1	A013105-3	2005-02-11
HP	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06
HP	Pre, Amplifier (1~1300MHz)	8447D	2944A10198	2005-08-20
A.H, Systems	Antenna, Horn, DRG	SAS-200/571	261	2005-04-20

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	25° C
Relative Humidity:	68%
ATM Pressure:	1025 mbar

*The testing was performed by Snell Leong on 2005-10-01.

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limits), and are distinguished with a "Qp" in the data table.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, and had the worst margin of:

- 14.3 dB at 4804.0400 MHz in the **Vertical** polarization, Low Channel, 3 meters
- 16.1 dB at 4880.0800 MHz in the **Vertical** polarization, Middle Channel, 3 meters*
- 18.6 dB at 4958.0800 MHz in the **Vertical** polarization, High Channel, 3 meters*
- 20.7 dB at 497.20 MHz in the **Horizontal** polarization, Unintentional Emission, 3 meters

**The data was within the measurement of uncertainty.*

3 Meters Radiated Emission Test Data

Indicated			Antenna	Antenna		Correction Factor			FCC 15.247		
Frequency	Ampl.	Direction	Height	Polar	Antenna	Cable	Amp.	Corr.	Limit	Margin	Comments
MHz	dBμV/m	Degree	Meter	H/V	dB	Loss	dB	Ampl.	dBμV/m	dB	
Low Channel											
2402.0200	97.5	90	1.0	V	28.7	2.0	35.8	82.3			Fund/Peak
2402.0200	85.6	0	1.2	H	28.7	2.0	35.8	70.4			Fund/Peak
2402.0200	82.5	180	1.2	V	28.7	2.0	35.8	67.3			Ave
2402.0200	72.8	0	1.2	H	28.7	2.0	35.8	57.6			Ave
4804.0400	68.9	270	2.4	V	32.5	3.1	34.8	59.7	74	-14.3	Peak
4804.0400	46.4	180	2.3	H	32.5	3.1	34.8	37.2	54	-16.8	Ave
4804.0400	45.7	270	2.4	V	32.5	3.1	34.8	36.5	54	-17.5	Ave
7206.0600	36.1	180	2.0	V	36.7	4.3	34.7	32.4	54	-21.6	Ave
7206.0600	36.0	90	2.0	H	36.7	4.3	34.7	32.3	54	-21.7	Ave
4804.0400	57.8	180	2.3	H	32.5	3.1	34.8	48.6	74	-25.4	Peak
7206.0600	48.6	90	2.0	V	36.7	4.3	34.7	44.9	74	-29.1	Peak
7206.0600	46.9	180	2.0	H	36.7	4.3	34.7	43.2	74	-30.8	Peak
Middle Channel											
2440.0400	93.9	90	1.2	V	28.7	2.0	35.8	78.7			Fund/Peak
2440.0400	82.3	90	1.2	H	28.7	2.0	35.8	67.1			Fund/Peak
2440.0400	80.7	90	1.4	V	28.7	2.0	35.8	65.5			Ave
2440.0400	70.7	0	1.2	H	28.7	2.0	35.8	55.5			Ave
4880.0800	67.1	270	2.4	V	32.5	3.1	34.8	57.9	74	-16.1	Peak
4880.0800	45.3	180	2.2	H	32.5	3.1	34.8	36.1	54	-17.9	Ave
4880.0800	43.7	270	2.4	V	32.5	3.1	34.8	34.5	54	-19.5	Ave
7320.1200	35.8	180	2.1	H	36.7	4.3	34.7	32.1	54	-21.9	Ave
7320.1200	35.6	270	2.4	V	36.7	4.3	34.7	31.9	54	-22.1	Ave
4880.0800	56.1	180	2.2	H	32.5	3.1	34.8	46.9	74	-27.1	Peak
7320.1200	47.6	270	2.4	V	36.7	4.3	34.7	43.9	74	-30.1	Peak
7320.1200	46.6	180	2.3	H	36.7	4.3	34.7	42.9	74	-31.1	Peak
High Channel											
2479.0400	88.8	0	1.8	V	28.7	2.0	35.8	73.6			Fund/Peak
2479.0400	78.6	0	1.8	H	28.7	2.0	35.8	63.4			Fund/Peak
2479.0400	76.9	0	1.8	V	28.7	2.0	35.8	61.7			Ave
2479.0400	67.6	0	1.8	H	28.7	2.0	35.8	52.4			Ave
4958.0800	64.6	270	2.4	V	32.5	3.1	34.8	55.4	74	-18.6	Peak
4958.0800	43.6	90	2.1	H	32.5	3.1	34.8	34.4	54	-19.6	Ave
4958.0800	42.1	270	2.4	V	32.5	3.1	34.8	32.9	54	-21.1	Ave
7437.1200	35.3	90	2.1	H	36.7	4.3	34.7	31.6	54	-22.4	Ave
7437.1200	35.2	270	2.4	V	36.7	4.3	34.7	31.5	54	-22.5	Ave
4958.0800	54.3	90	2.1	H	32.5	3.1	34.8	45.1	74	-28.9	Peak
7437.1200	45.5	270	2.4	V	36.7	4.3	34.7	41.8	74	-32.2	Peak
7437.1200	44.8	90	2.1	H	36.7	4.3	34.7	41.1	74	-32.9	Peak

Unintentional Emission

Frequency MHz	Indicated		Antenna Height Meter	Antenna		Correction Factor			FCC 15.247	
	Ampl. dB μ V/m	Direction Degree		Polar H/V	Antenna dB	Cable Loss dB	Amp. dB	Corr. Ampl. dB μ V/m	Limit dB μ V/m	Margin dB
497.20	40.8	270	2.1	H	18.2	4.9	28.6	25.3	46	-20.7
497.20	39.7	330	1.2	V	18.2	4.9	28.6	24.2	46	-21.8
244.08	43.2	270	3.2	H	11.5	3.3	27.5	20.5	46	-25.5
488.00	36.7	280	2.8	H	17.6	4.8	28.6	20.5	46	-25.5
488.00	35.9	250	1.0	V	17.6	4.8	28.6	19.7	46	-26.3
244.08	42.3	75	1.8	V	11.5	3.3	27.5	19.6	46	-26.4

Note:

FUND: Fundamental

AVG: Average

§15.247(a)(2) – 6 dB BANDWIDTH

Standard Applicable

According to §15.247(a)(2), for digital modulation techniques, the minimum 6dB bandwidth shall be at least 500 kHz.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth. (6 dB bandwidth for DTS)
4. Repeat above procedures until all frequencies measured were complete.

Equipment Lists

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06

* **Statement of Traceability:** BACL Corp. attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Measurement Result

Environmental Conditions

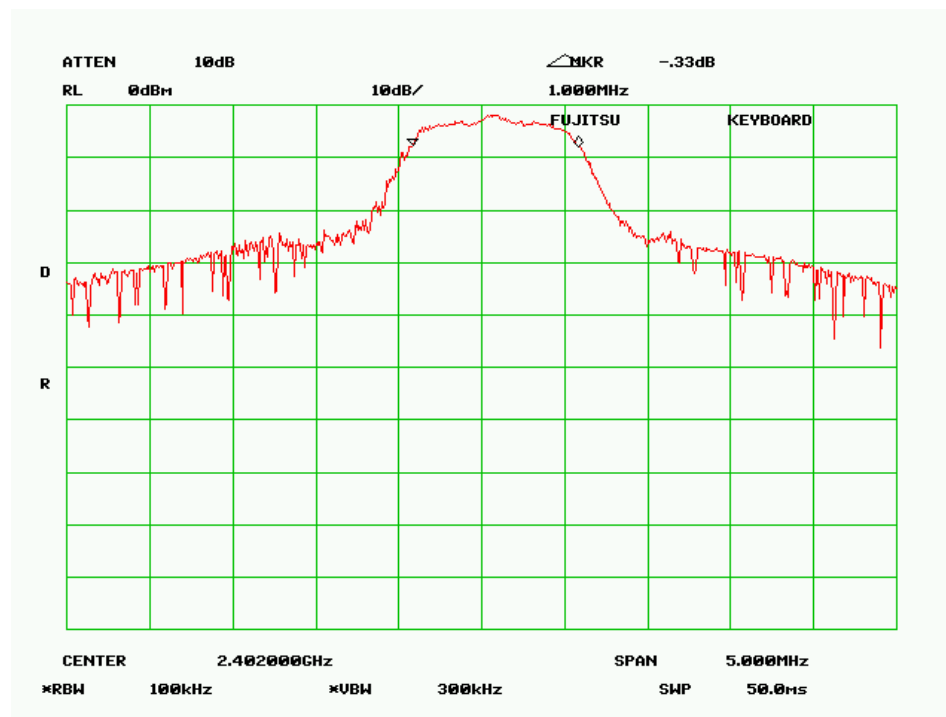
Temperature:	25° C
Relative Humidity:	68%
ATM Pressure:	1025 mbar

*The testing was performed by Snell Leong on 2005-10-01.

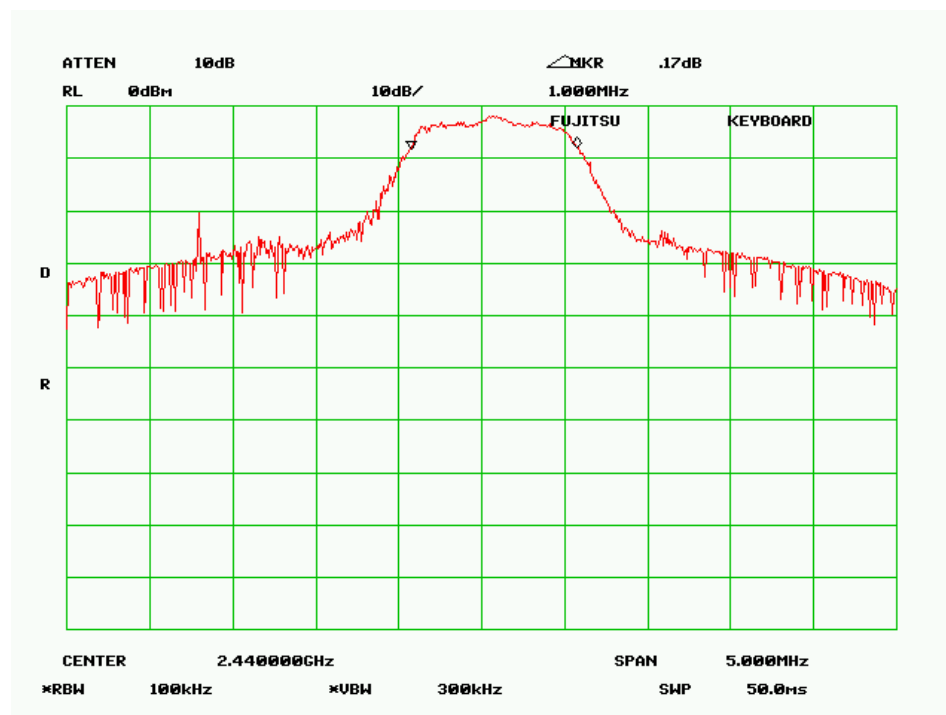
Test Result

Channel	Frequency MHz	Channel Bandwidth (KHz)	Limit	Result
Low	2402.02	1000	> 500 kHz	Pass
Mid	2440.04	1000	> 500 kHz	Pass
High	2479.04	992	> 500 kHz	Pass

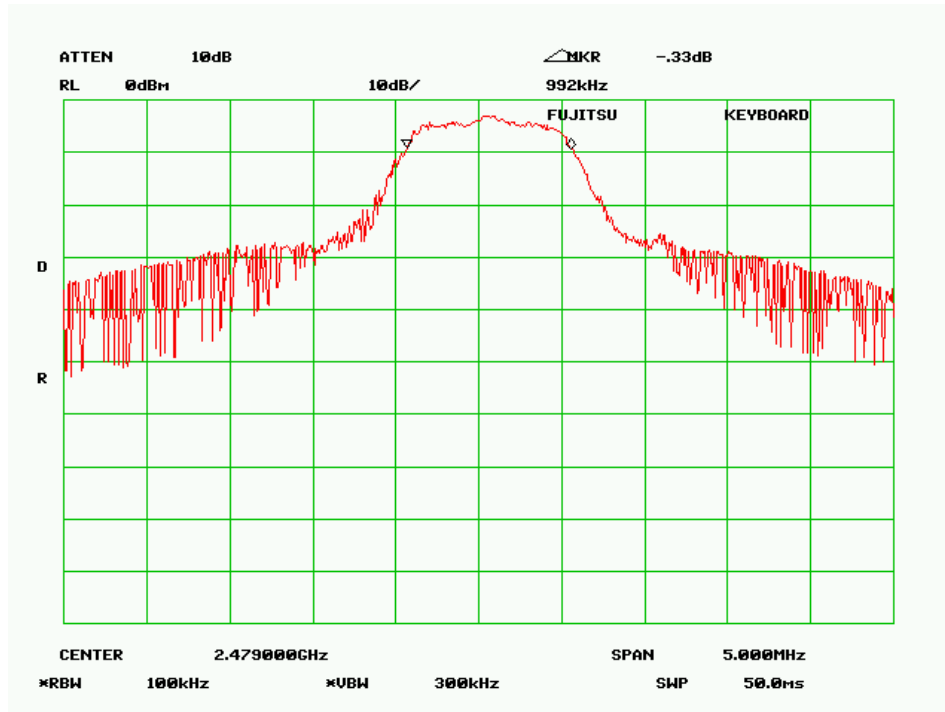
Low Channel



Mid. Channel



High Channel



§15.247 (b) (3) - MAXIMUM PEAK OUTPUT POWER

Standard Applicable

According to §15.247(b) (3), for frequency hopping systems in the 2400-2483.5MHz band employing at least 75 hopping channels, and all direct sequence systems, the maximum peak output power of the transmitter shall not exceed 1 Watt.

Measurement Procedure

1. Place the EUT on the turntable and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	25° C
Relative Humidity:	68%
ATM Pressure:	1025 mbar

**The testing was performed by Snell Leong on 2005-10-01.*

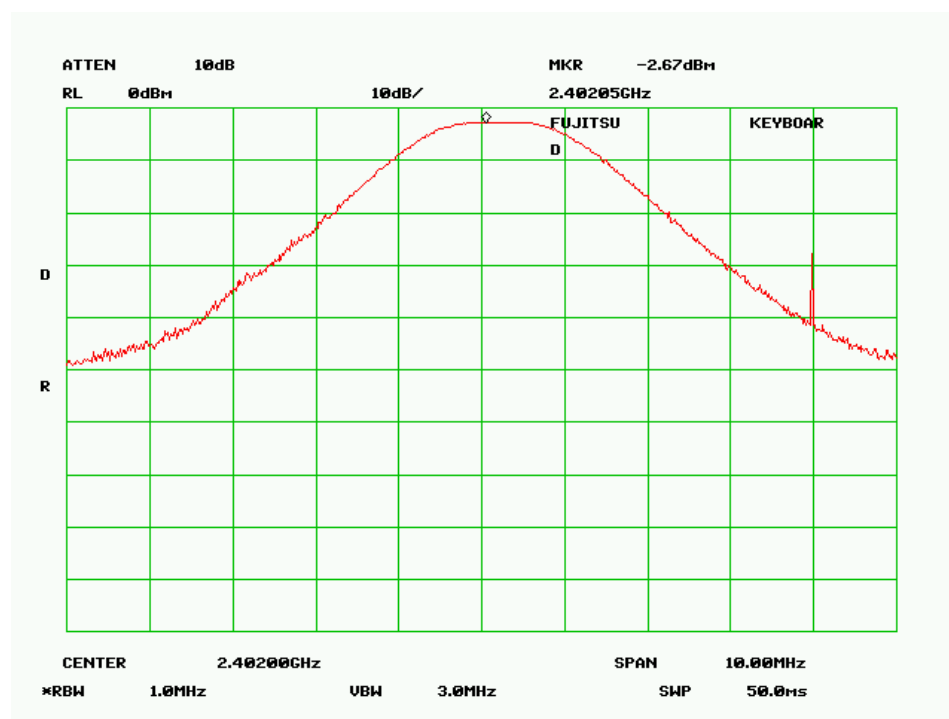
Measurement Result

Channel	Frequency MHz	Max Peak Output Power		Limit (mW)	Result
		(dBm)	(mW)		
Low	2402.02	-2.67	0.54	1000	pass
Mid	2440.04	-2.67	0.54	1000	pass
High	2479.04	-3.83	0.41	1000	pass

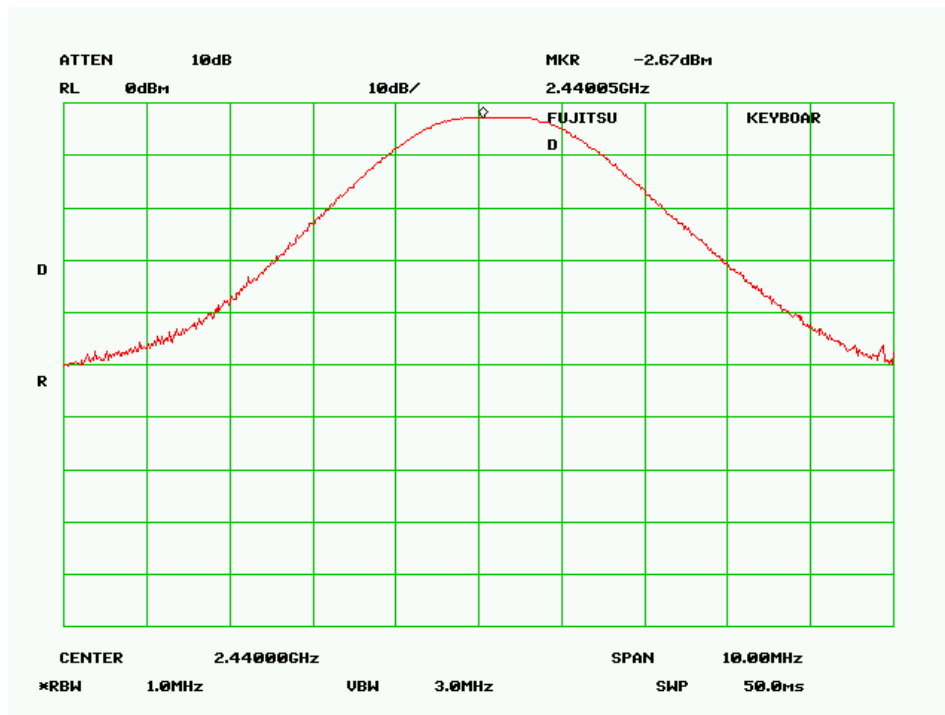
Plots of Maximum Peak Output Power

Please see the following plots

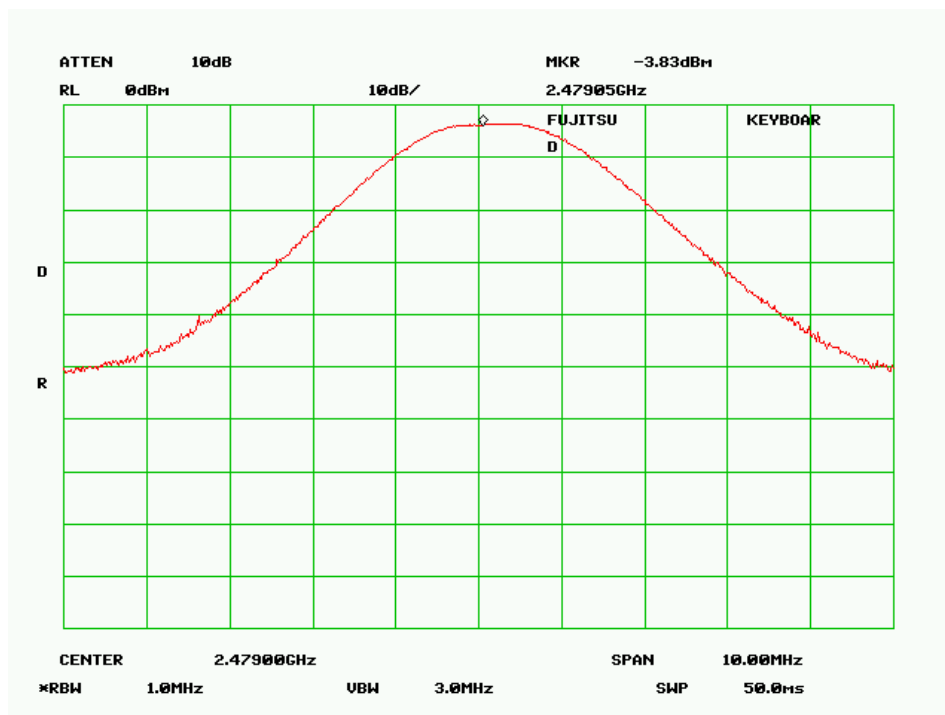
Low Channel



Middle Channel



High Channel



§15.247 (d) - 100 KHZ BANDWIDTH OF BAND EDGES

Standard Applicable

According to §15.247(d), in any 100 kHz 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. Attenuation below the general limits specified in §15.209(a) is not required.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

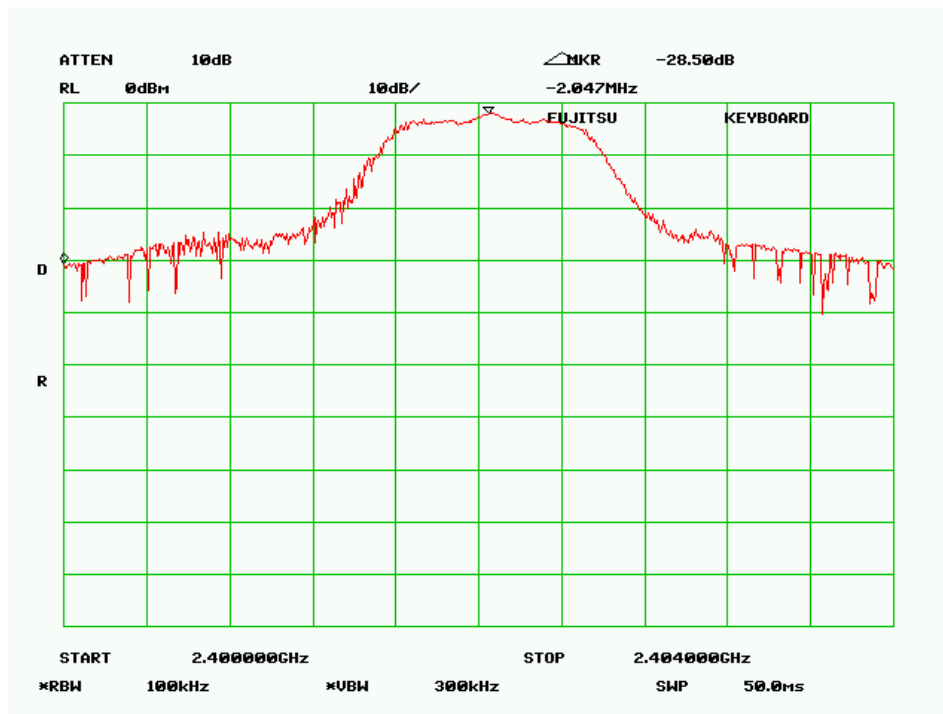
Temperature:	25° C
Relative Humidity:	68%
ATM Pressure:	1025 mbar

**The testing was performed by Snell Leong on 2005-10-01.*

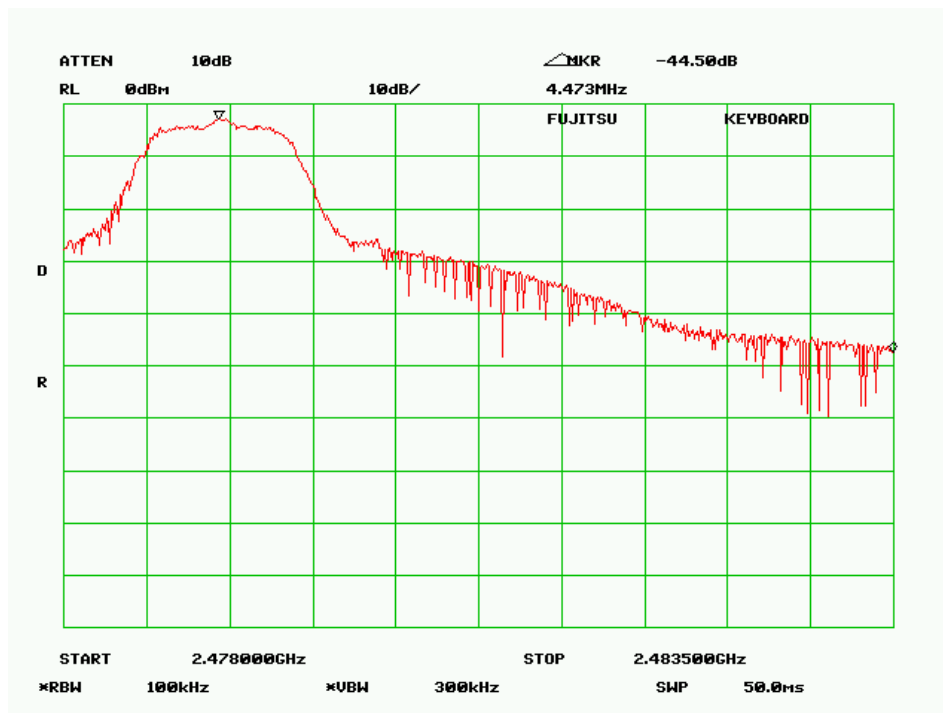
Plots of 100kHz Bandwidth of Band Edge

Please refer the following plots.

Low Channel



High Channel



§2.1051 - SPURIOUS EMISSION AT ANTENNA PORT

Standard Applicable

According to §15.209 (f) and §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit.

Measurement Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on a bench without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06

* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

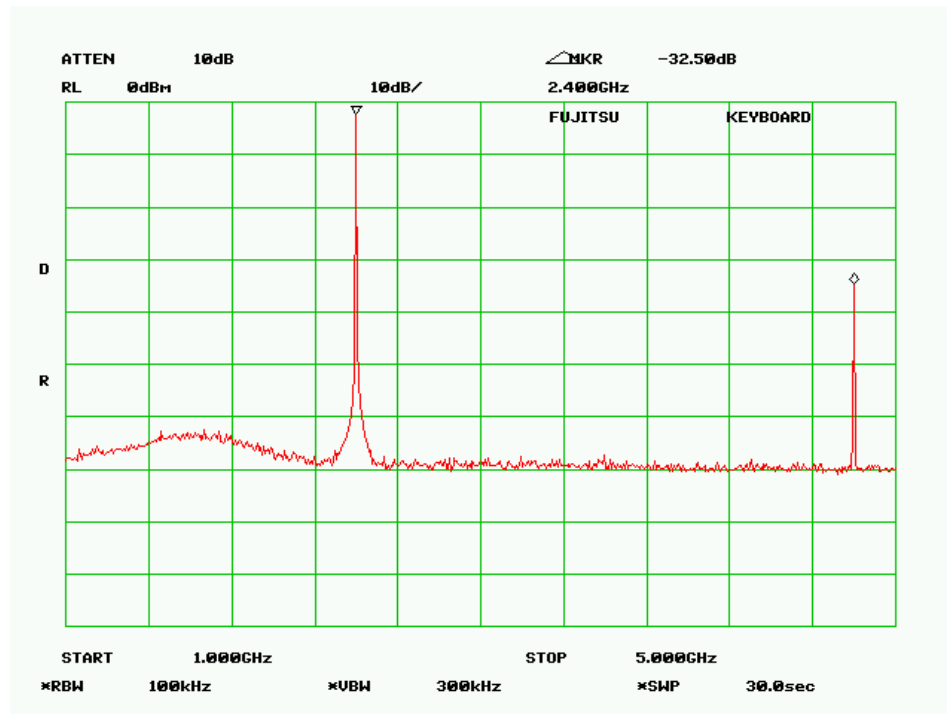
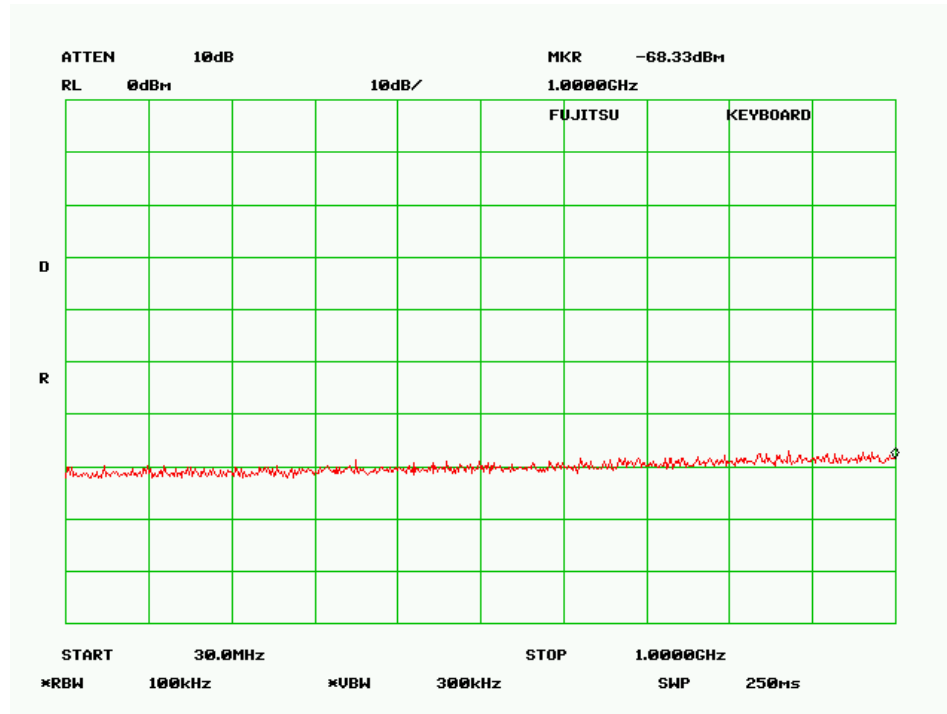
Temperature:	25° C
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**The testing was performed by Snell Leong on 2005-10-01.*

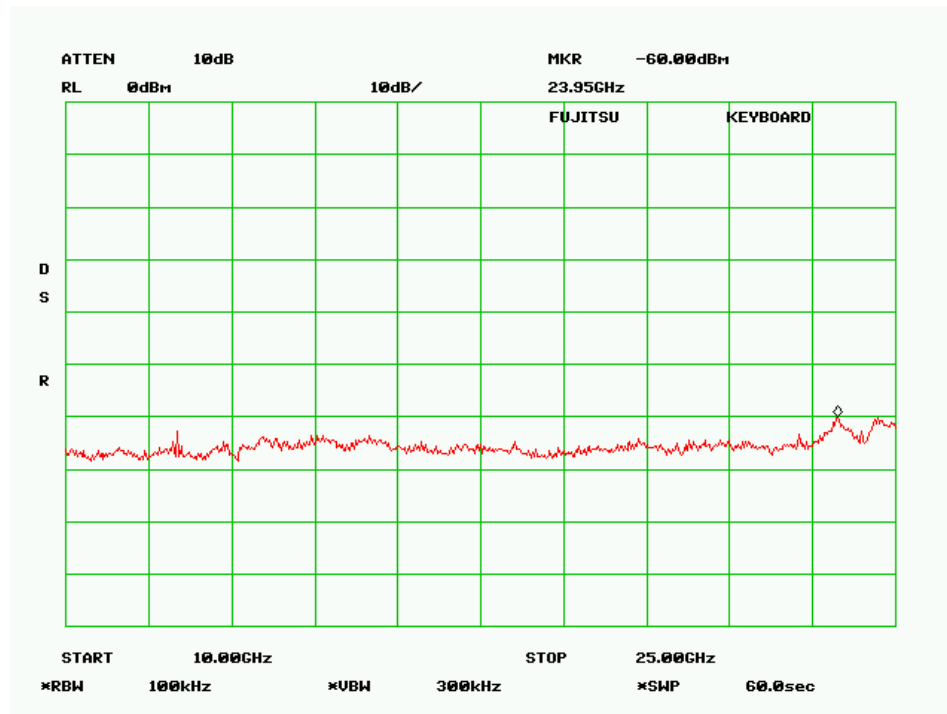
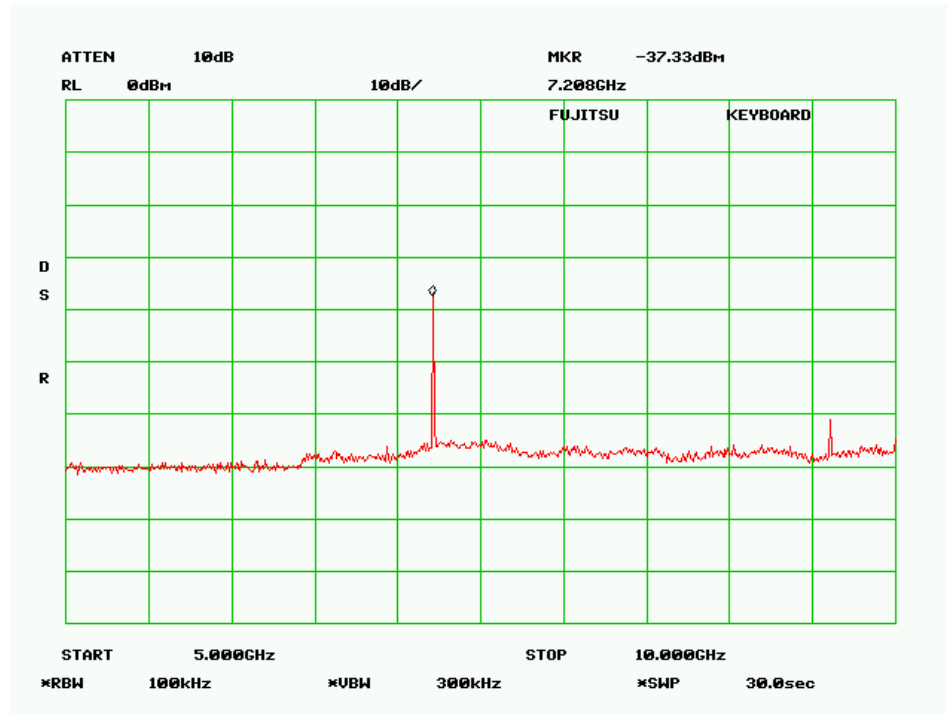
Measurement Results

Please refer to the following plots.

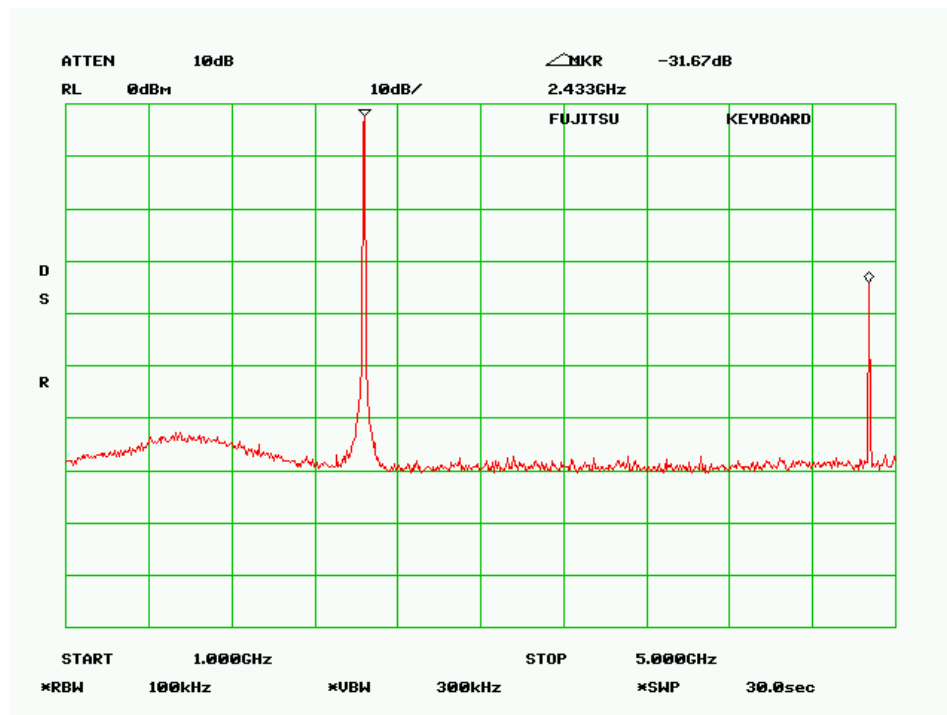
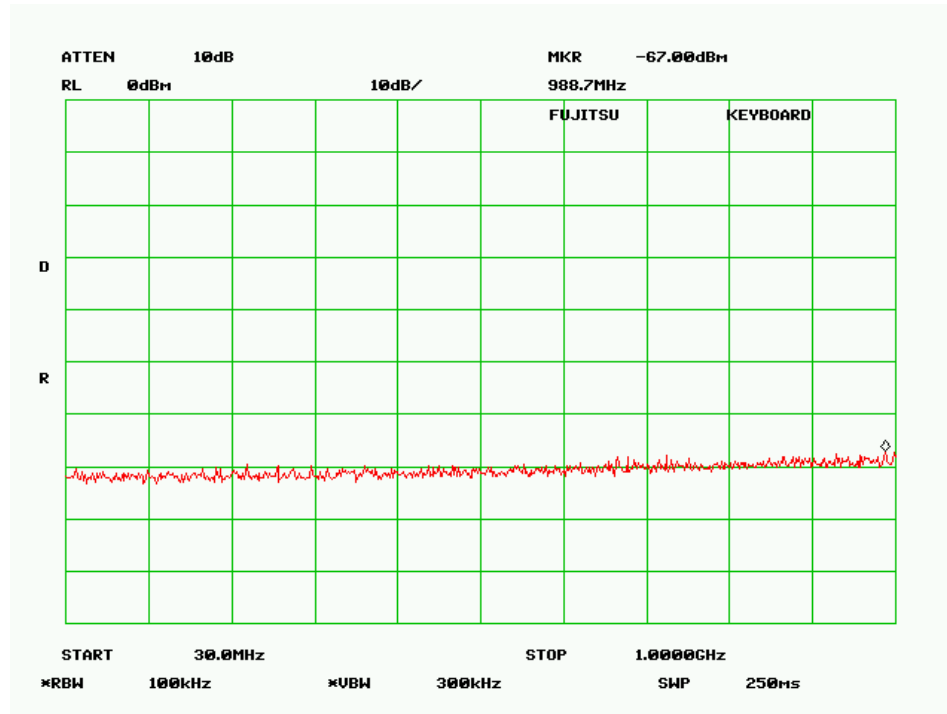
Low Channel



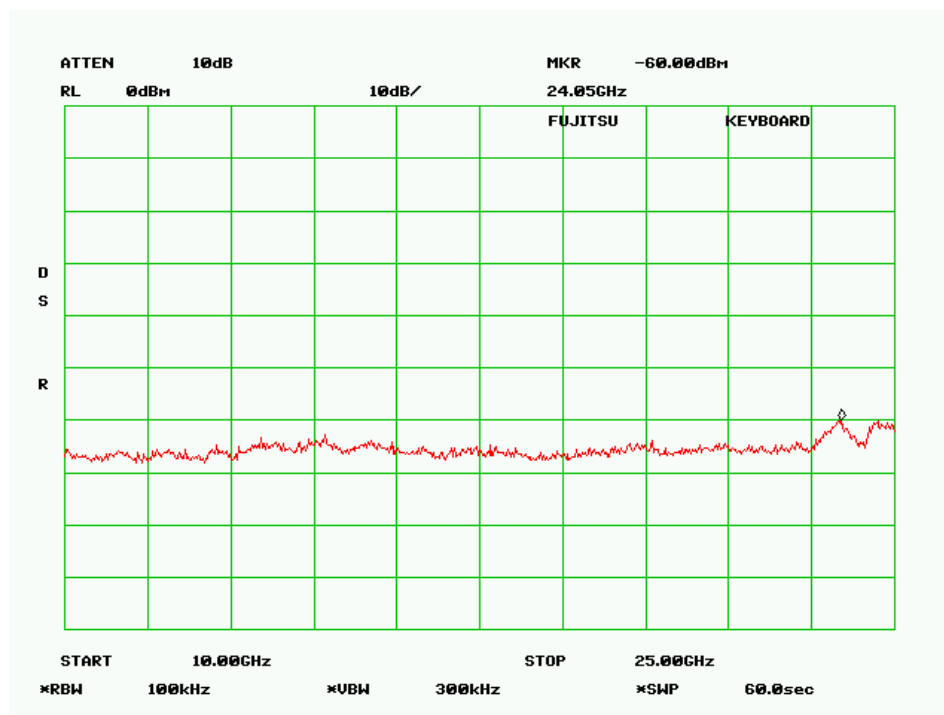
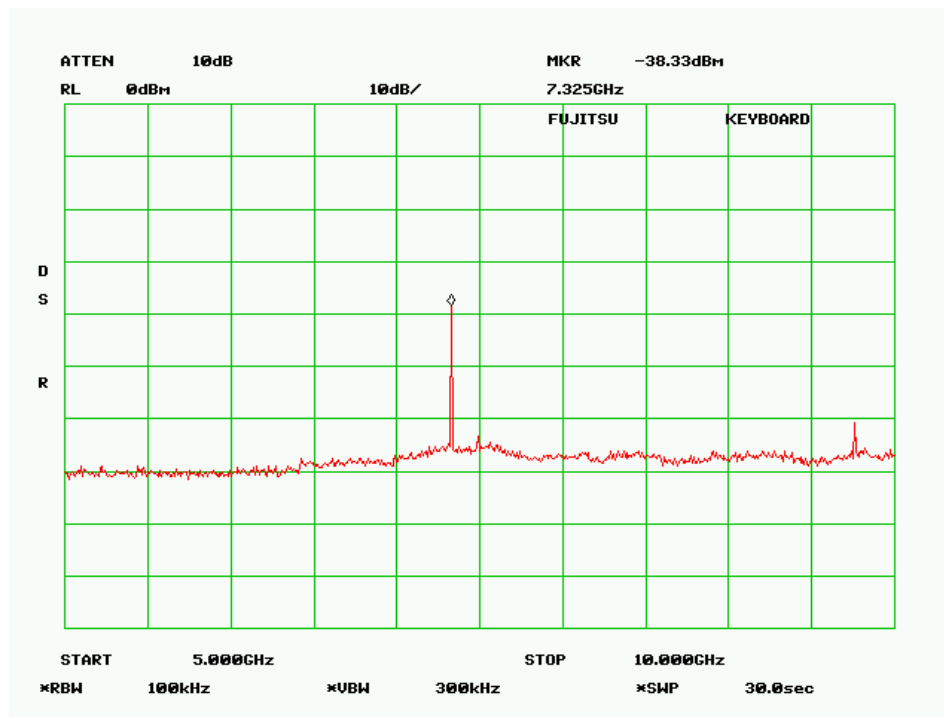
Low Channel



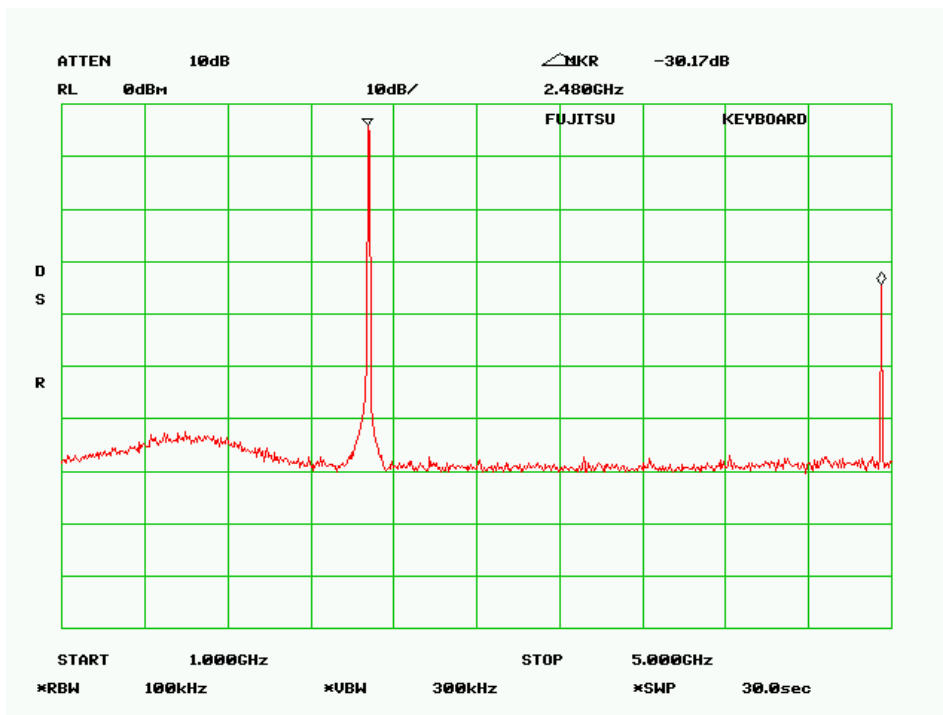
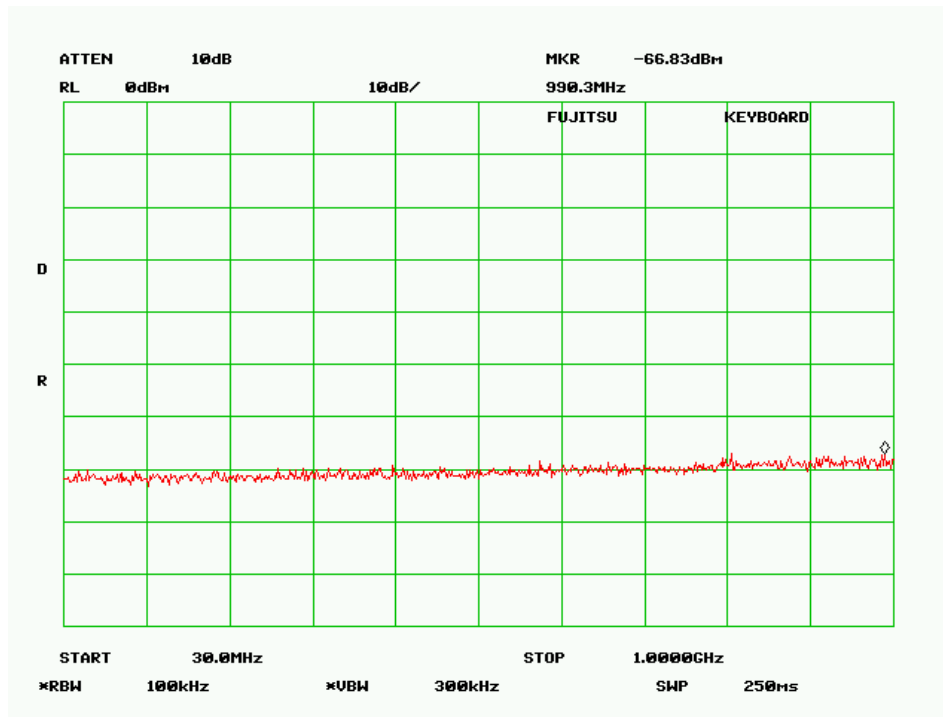
Middle Channel



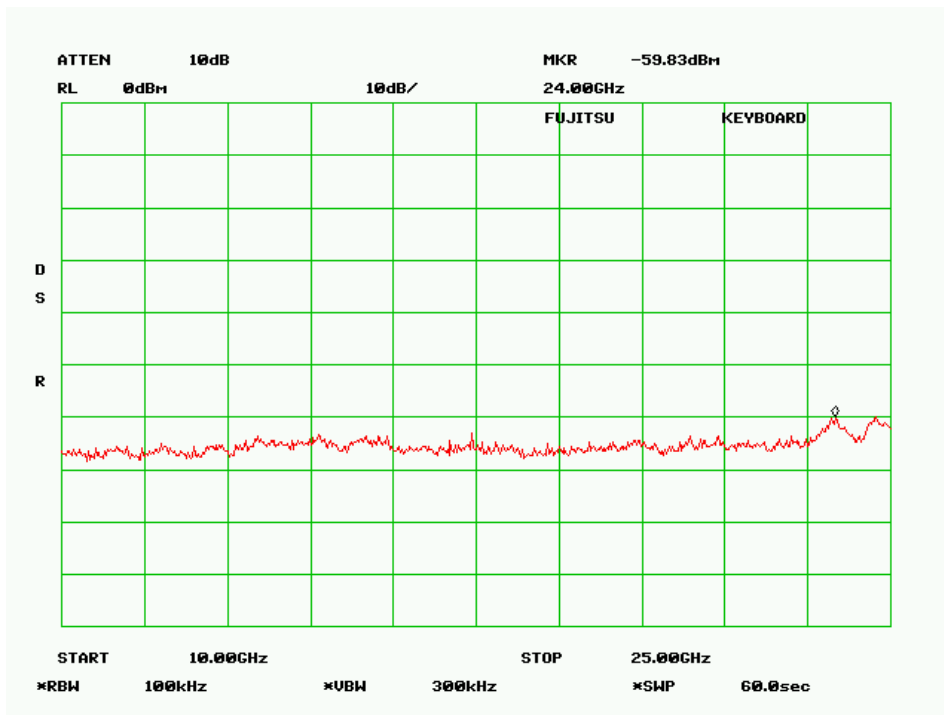
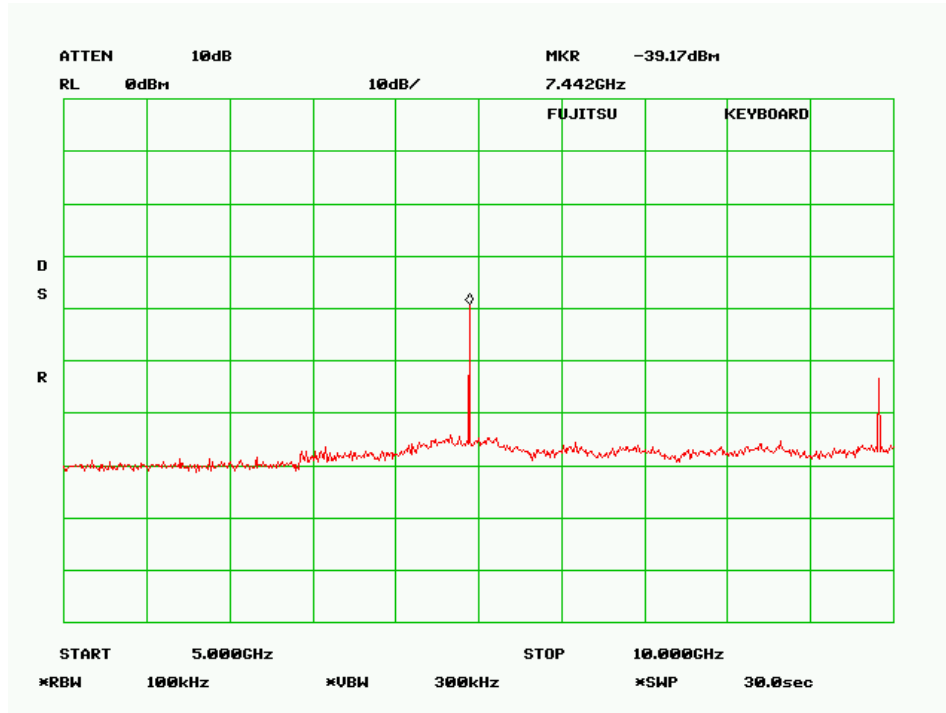
Middle Channel



High Channel



High Channel



§15.247(e) - POWER SPECTRAL DENSITY

Standard Applicable

According to §15.247 (e), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1.5MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value. (DTS)
4. Repeat above procedures until all frequencies measured were complete.

Equipment Lists

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2005-08-06

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Measurement Result

Environmental Conditions

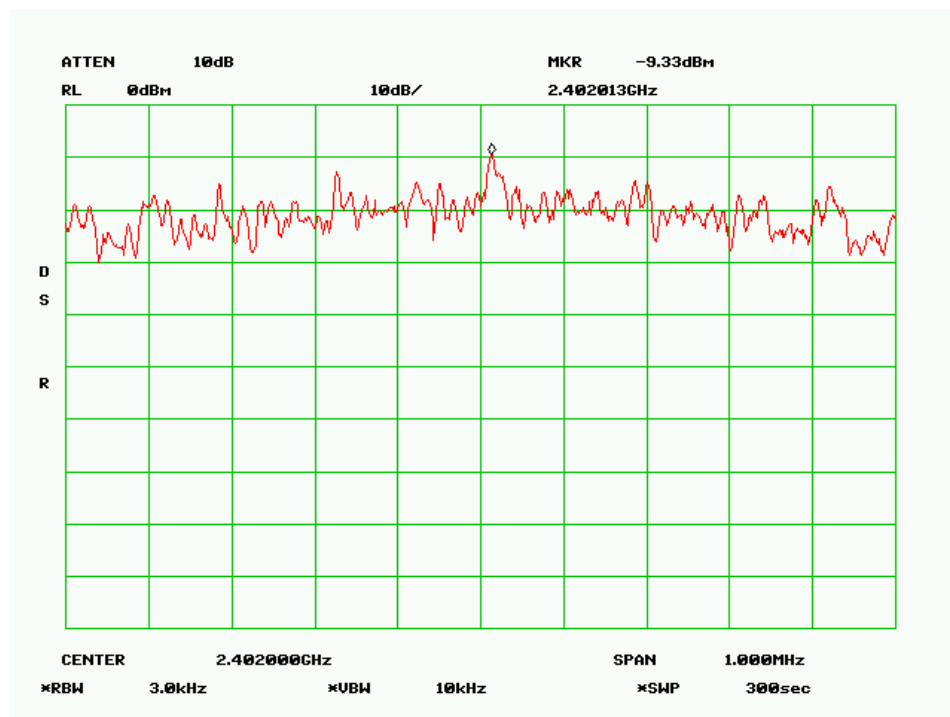
Temperature:	25° C
Relative Humidity:	68%
ATM Pressure:	1025 mbar

**The testing was performed by Snell Leong on 2005-10-01.*

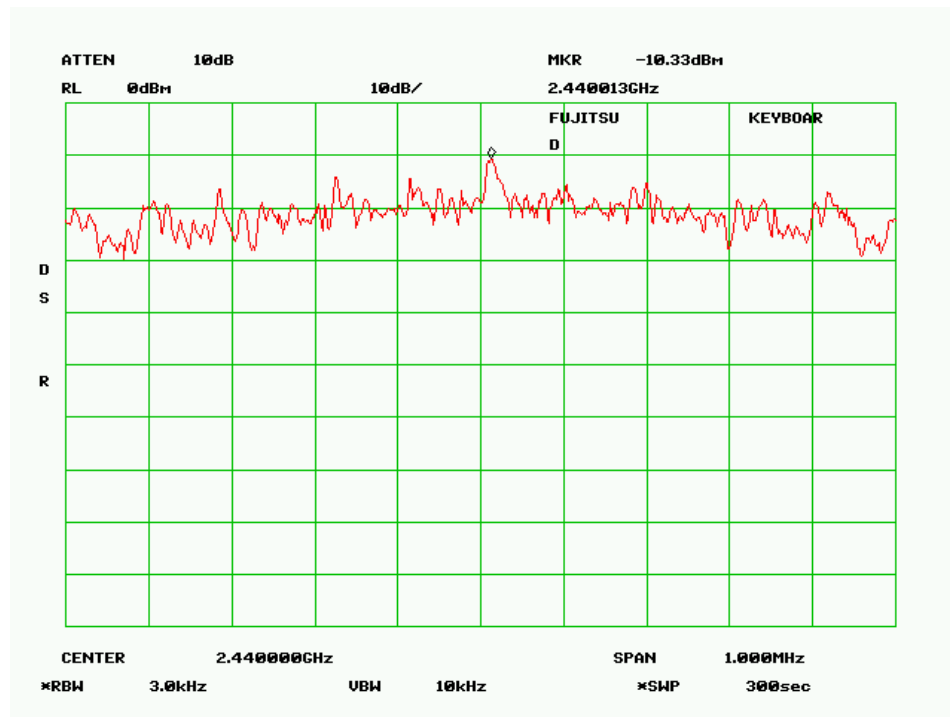
Test Result

Channel	Frequency MHz	PSD dBm	Limit	Result
Low	2402.02	-9.33	8 dBm	Pass
Mid	2440.04	-10.33	8 dBm	Pass
High	2479.04	-11.00	8 dBm	Pass

Low Channel



Mid. Channel



High Channel

