

FCC TEST REPORT
for
Shenzhen Honghe Innovation Information Technology Co., Ltd.

Interactive Whiteboard (only for RF part)

Model No.:

QWB200EM-DWL	WHITEBOARD 8042	WHITEBOARD 8083	WHITEBOARD 8088
WHITEBOARD 8096	WHITEBOARD 8100	HVE-8083	HVE-8083A
HVE-8083B	HVE-8083C	HVE-8083D	HVE-8083E
HVE-8083F	HVE-8088	HVE-8088A	HVE-8088B
HVE-8088C	HVE-8088D	HVE-8088E	HVE-8088F
HVE-8096	HVE-8096A	HVE-8096B	HVE-8096C
HVE-8096D	HVE-8096E	HVE-8096F	HVE-8100W
HVE-8105	HVE-8120W	HVE-6086A	QWB35EM
QWB200EM	QWB56EM	QWB300EM	QWB100WSEM
QWB35EM-DWL	QWB200EM-DWL	QWB56EM-DWL	QWB300EM-DWL
QWB100WSEM-DWL	HBE-083	HBE-088	HBE-096
64" PRO DIGITAL+BOARD	78" PRO DIGITAL+BOARD		
Razr i-Board E-78	48" PRO DIGITAL+INTERACTIVE WHITEBOARD		
Razr i-Board E-88	56" PRO DIGITAL+INTERACTIVE WHITEBOARD		
Razr i-Board E-96	78" PRO DIGITAL+INTERACTIVE WHITEBOARD		
Razr i-Board E-100W	88" PRO DIGITAL+INTERACTIVE WHITEBOARD		
48" IE PRO DIGITAL+BOARD	96" PRO DIGITAL+INTERACTIVE WHITEBOARD		
78" IE PRO DIGITAL+BOARD	100" PRO DIGITAL+INTERACTIVE WHITEBOARD		

Prepared for : Shenzhen Honghe Innovation Information Technology Co., Ltd.
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Report Number : 201001705F
Date of Test : Jan. 21~30, 2010
Date of Report : Feb. 02, 2010

TABLE OF CONTENT

Description	
Test Report	Page
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Description of Test Facility	5
1.3. Measurement Uncertainty.....	5
2. MEASURING DEVICE AND TEST EQUIPMENT.....	6
3. TEST PROCEDURE	7
4. CONDUCTED LIMITS	8
4.1. Block Diagram of Test Setup	8
4.2. Power Line Conducted Emission Measurement Limits (15.207)	8
4.3. Configuration of EUT on Measurement	8
4.4. Operating Condition of EUT	8
4.5. Test Procedure	9
4.6. Power Line Conducted Emission Measurement Results	9
5. RADIATION INTERFERENCE.....	12
5.1. Requirements (15.249, 15.209):	12
5.2 Test Procedure	12
5.3 Test Results.....	12
6. OCCUPIED BANDWIDTH.....	16
6.1. Requirements (15.249):	16
6.2 Test Results.....	16
7. PHOTOGRAPH.....	18
7.1. Photo of Power Line Conducted Emission Measurement	18
7.2. Photo of Radiation Emission Test	18

APPENDIX I (Photos of EUT) (8 Pages)

TEST REPORT

Applicant : Shenzhen Honghe Innovation Information Technology Co., Ltd.
Manufacturer : HiteVision Digital Media Technology Co., Ltd.
EUT : Interactive Whiteboard
Model No. : Details See the Page 1
Serial No. : N/A
Rating : DC 5V via AC/DC Adapter
Trade Mark : N/A

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.249, 15.209 & 15.207

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test :

Jan. 21~30, 2010



Prepared by :

(Engineer)



Reviewer :

(Project Manager)



Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Interactive Whiteboard
Model Number	: Details See the Page 1 (Note: The above samples are same except the model number & Size of appliances, so we prepare “QWB200EM-DWL” for EMC test only.)
Test Power Supply	: AC 120V, 60Hz
Adapter	: Name: POWER-TEK ADAPTER Model: SWPP-05001000-US Input: 100-240VAC, 50/60Hz, 0.2A Output: DC 5V 1000mA UL, FCC
Notebook PC	: Manufacturer: IBM M/N: 2662 S/N: 99-Y5753 02/02 CE , FCC: DOC
Frequency	: 2405~2480MHz
Antenna Gain	: 0dBi
Applicant Address	: Shenzhen Honghe Innovation Information Technology Co., Ltd. : 6/F, No. 1 Workshop, Honghui Industry Park, Liuxian 2 Road, Bao'an District, Shenzhen
Manufacturer Address	: HiteVision Digital Media Technology Co., Ltd. : 11th Floor, Build C, Jinyu Jiahua Building, No.9th Shangdi 3rd Street, Haidian District, Beijing, China
Date of receiver Date of Test	: Jan. 20, 2010 Jan. 21~30, 2010

1.2. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 607248

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 607248, November 12, 2008.

IC-Registration No.: 8058A

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, November 12, 2008.

Test Location

All Emissions tests were performed at
Anbotek Compliance Laboratory Limited. at 2/F, Langfeng Building, Kefa Road
North, Hi-tech Industrial Park, Nanshan District, Shenzhen 518057, China

1.3. Measurement Uncertainty

Radiation Uncertainty : $U_r = \pm 4.26\text{dB}$

Conduction Uncertainty : $U_c = \pm 2.66\text{dB}$

2. MEASURING DEVICE AND TEST EQUIPMENT

Equipment	Manufacturer	Model #	Serial #	Data of Cal.	Due Data
EMI Test Receiver	Rohde & Schwarz	ESCI	100119	Mar.03, 2009	Mar.02, 2010
EMI Test Receiver	Rohde & Schwarz	ESPI	1101604	Jun.21, 2010	Jun.20, 2011
EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	Sep.22, 2009	Sep.21, 2010
EMI Test Software	SHURPLE	ESK1	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E7405A	MY45114970	Jun.21, 2010	Jun.20, 2011
Signal Generator	Rohde & Schwarz	SMR27	100124	Jul.06, 2008	Jul.25, 2010
Signal Generator	Rohde & Schwarz	SML03	102319	Aug.01, 2008	Aug.01, 2010
AC Power Source	Sepcial power system	YF650	N/A	N/A	N/A
Absorbing Clamp	Rohde & Schwarz	MDS21	100218	Apr.30, 2008	Apr.29, 2010
Power Meter	Rohde & Schwarz	NRVD	101287	Jul.19, 2009	Jul.18, 2011
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010
Universal radio Communication tester	Rohde & Schwarz	CMU200	101724	Sep.08, 2009	Sep.07, 2011
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
BiConilog Antenna	ETS-LINDGREN	3142C	00042670	Mar.03, 2009	Mar.02, 2010
BiConilog Antenna	ETS-LINDGREN	3142C	00042673	Mar.03, 2009	Mar.02, 2010
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00035926	Dec.30, 2009	Dec.29, 2011
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00041545	Dec.30, 2009	Dec.29, 2011
Pre-amplifier	CD	PAM0203	804203	Jun.21, 2010	Jun.20, 2011
RF Switch	CD	RSU-M3	706543	Jun.21, 2010	Jun.20, 2011
Thermo-/Hygrometer	N/A	TH01	N/A	May.03, 2009	Mar.03, 2010
Shielding Room	Zhong Yu Electronic	N/A	N/A	N/A	N/A
3m Semi-Anechoic Chamber	Zhong Yu Electronic	N/A	N/A	Apr.28, 2008	Apr.27, 2010

3. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS

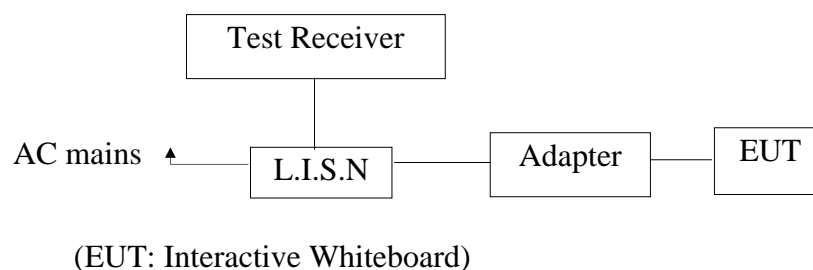
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

4. Conducted Limits

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Interactive Whiteboard
 Model Number : QWB200EM-DWL
 Applicant : Shenzhen Honghe Innovation Information Technology Co., Ltd.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode (ON) and measure it.

4.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 4.6.

4.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

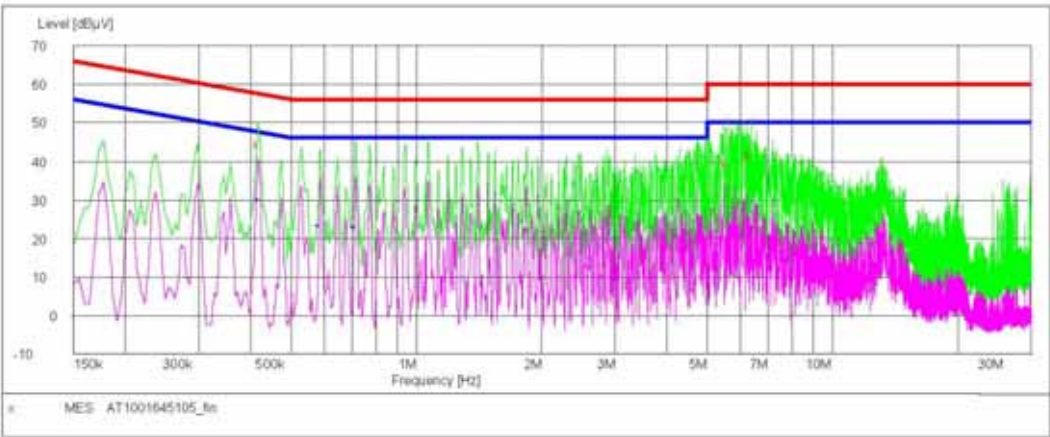
Anbotek Compliance Laboratory Limited

Voltage Mains FCC PART 15 CLASS B

EUT: Interactive Whiteboard M/N:QWB200EM-DWL
Manufacturer: Shenzhen Honghe Innovation Information Technology Co., Ltd.
Operating Condition: ON
Test Site: 1# Shielding Room
Operator: Jacky
Test Specification: AC 120V, 60Hz
Comment: L
Start of Test: 1/26/2010 / 5:08:02PM

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "AT1001645105_fin"

1/26/2010 5:11PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.420000	44.60	10.0	57	12.8	QP	L1	GND
5.599500	39.70	9.9	60	20.3	QP	L1	GND
6.346500	42.00	9.9	60	18.0	QP	L1	GND

MEASUREMENT RESULT: "AT1001645105_fin2"

1/26/2010 5:11PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.420000	30.40	10.0	47	17.0	AV	L1	GND
0.586500	23.70	9.9	46	22.3	AV	L1	GND
0.717000	23.30	9.9	46	22.7	AV	L1	GND

1/26/2010 5:11PM AT1001645105

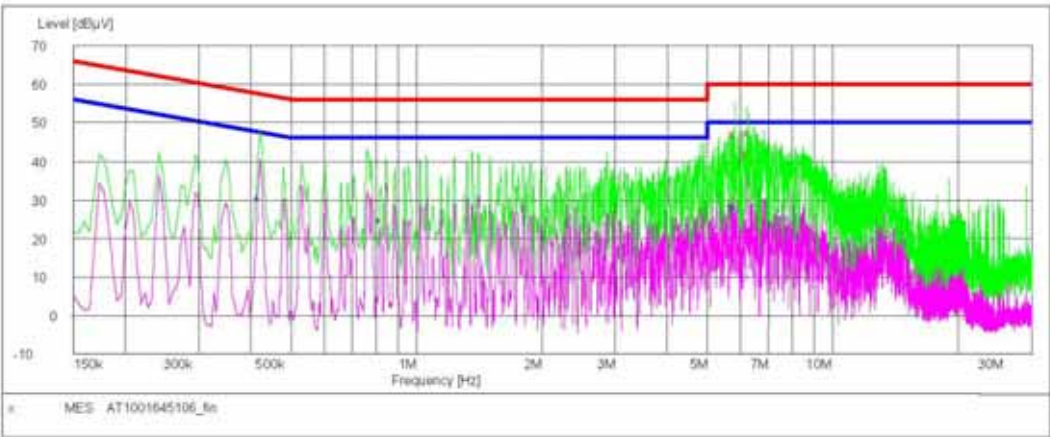
Anbotek Compliance Laboratory Limited

Voltage Mains FCC PART 15 CLASS B

EUT: Interactive Whiteboard M/N: QWB200EM-DWL
Manufacturer: Shenzhen Honghe Innovation Information Technology Co., Ltd.
Operating Condition: ON
Test Site: 1# Shielding Room
Operator: Jacky
Test Specification: AC 120V, 60Hz
Comment: N
Start of Test: 1/26/2010 / 5:12:35PM

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "AT1001645106_fin"

1/26/2010 5:15PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
5.811000	47.20	9.9	60	12.8	QP	N	GND
6.229500	42.20	9.9	60	17.8	QP	N	GND
6.288000	47.60	9.9	60	12.4	QP	N	GND

MEASUREMENT RESULT: "AT1001645106_fin2"

1/26/2010 5:15PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.420000	30.60	10.0	47	16.8	AV	N	GND
0.820500	25.00	9.9	46	21.0	AV	N	GND
5.815500	28.20	9.9	50	21.8	AV	N	GND

1/26/2010 5:15PM AT1001645106

5. Radiation Interference

5.1. Requirements (15.249, 15.209):

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209	
902-928 MHZ		30 - 88 MHz	40 dBuV/m @3M
2.4-2.4835 GHz		88 - 216 MHz	43.5
94 dBuV/m @3m	54 dBuV/m @3m	216 - 960 MHz	46
		ABOVE 960 MHz	54dBuV/m

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 5.3.

5.3 Test Results

PASS.

Please refer the following pages.

FCC ID: X5320100202

Data:

Horizontal CH Low(2405MHz)								
Frequency	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
MHz	Loss	Factor	Factor	Level	dBμV/m	dBμV/m	Limit	
	dB	dB/m	dB	dBμV			dB	
96.00	0.8	12.84	41.25	63.14	35.53	43.50	-7.97	Peak
729.35	2.65	18.88	39.47	55.01	37.07	46.00	-8.93	Peak
2404.98	3.11	31.24	36.00	90.35	88.70	94.0	-5.30	Peak
4809.25	3.11	31.61	34.70	41.23	41.25	54.0	-12.75	Peak
7214.71	3.12	32.16	35.17	33.00	33.11	54.0	-20.89	Peak
9619.03	3.12	35.31	35.01	32.50	35.92	54.0	-18.08	Peak
12024.20	3.13	36.40	34.79	26.90	31.64	54.0	-22.36	Peak
14429.43	3.14	37.84	34.52	25.20	31.66	54.0	-22.34	Peak
16834.72	3.14	38.65	34.37	19.88	27.30	54.0	-26.70	Peak
19238.60	3.15	38.98	34.04	13.60	21.69	54.0	-32.31	Peak
21644.11	3.15	39.32	33.81	14.29	22.95	54.0	-31.05	Peak
24049.30	3.16	40.02	33.58	14.60	24.20	54.0	-29.80	Peak

CH Middle(2440MHz)								
Frequency	Cable	Ant	Preamp	Read	Level	Limit	Over	Remark
MHz	Loss	Factor	Factor	Level	dBμV/m	dBμV/m	Limit	
	dB	dB/m	dB	dBμV			dB	
63.98	0.62	10.93	39.87	60.65	32.33	40.00	-7.67	Peak
119.85	0.90	10.48	41.27	63.89	34.00	43.50	-9.50	Peak
2440.15	3.11	31.25	35.90	88.45	86.91	94.0	-7.09	Peak
4879.26	3.11	31.61	34.72	36.20	35.20	54.0	-18.80	Peak
7219.40	3.12	32.16	35.17	32.32	32.43	54.0	-21.57	Peak
9760.70	3.12	35.31	35.00	30.85	34.28	54.0	-19.72	Peak
12119.16	3.13	36.40	34.79	28.50	33.24	54.0	-20.76	Peak
14639.42	3.14	37.85	34.50	25.41	31.90	54.0	-22.10	Peak
17079.19	3.14	38.60	34.35	20.85	28.24	54.0	-25.76	Peak
19519.28	3.15	38.98	34.04	15.18	23.27	54.0	-30.73	Peak
21959.81	3.15	39.32	33.81	14.22	23.88	54.0	-30.12	Peak
24339.73	3.16	40.01	33.62	14.10	23.65	54.0	-30.35	Peak

FCC ID: X5320100202

CH High(2480MHz)								
Frequency	Cable	Ant	Preampl	Read	Level	Limit	Over	Remark
MHz	Loss	Factor	Factor	Level	dBμV/m	dBμV/m	Limit	
	dB	dB/m	dB	dBμV			dB	
159.78	1.10	8.67	41.26	65.69	34.20	43.50	-9.30	Peak
191.75	1.28	10.56	41.25	65.06	35.65	43.50	-7.85	Peak
2480.30	3.11	31.32	36.00	90.77	89.20	94.0	-4.80	Peak
4958.15	3.11	31.63	34.80	41.10	41.04	54.0	-12.96	Peak
7439.61	3.12	32.16	35.20	31.00	31.08	54.0	-22.92	Peak
9919.94	3.12	35.31	34.98	28.99	32.44	54.0	-21.56	Peak
12400.27	3.13	36.40	34.79	30.00	34.74	54.0	-19.26	Peak
14879.51	3.14	37.88	34.50	26.50	33.02	54.0	-20.98	Peak
17359.40	3.15	38.60	34.35	21.64	29.03	54.0	-24.97	Peak
19839.76	3.15	39.00	34.04	15.06	23.17	54.0	-30.83	Peak
22319.83	3.16	39.40	33.76	15.03	24.73	54.0	-29.27	Peak
24799.17	3.17	40.12	33.60	14.25	23.94	54.0	-30.06	Peak

Vertical CH Low(2405MHz)								
Frequency	Cable	Ant	Preampl	Read	Level	Limit	Over	Remark
MHz	Loss	Factor	Factor	Level	dBμV/m	dBμV/m	Limit	
	dB	dB/m	dB	dBμV			dB	
37.08	0.5	12.91	39.95	58.65	32.11	40.00	-7.89	Peak
179.99	1.2	9.68	41.25	65.84	35.47	43.50	-8.03	Peak
2404.98	3.11	31.24	36.00	88.20	86.55	94.0	-7.45	Peak
4809.25	3.11	31.60	34.70	37.77	37.78	54.0	-16.22	Peak
7214.71	3.12	32.16	35.17	31.42	31.52	54.0	-22.48	Peak
9619.03	3.12	35.31	35.01	31.40	34.82	54.0	-19.18	Peak
12024.20	3.13	36.40	34.79	24.05	28.79	54.0	-25.21	Peak
14429.43	3.14	37.84	34.52	21.22	27.48	54.0	-26.22	Peak
16834.72	3.14	38.65	34.37	19.66	27.08	54.0	-26.92	Peak
19238.60	3.15	38.98	34.04	15.35	23.44	54.0	-30.56	Peak
21644.11	3.15	39.32	33.81	14.30	22.96	54.0	-31.04	Peak
24049.30	3.16	40.02	33.58	14.60	24.20	54.0	-29.80	Peak

FCC ID: X5320100202

CH Middle(2440MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
128.11	0.95	10.48	41.27	65.88	36.04	43.50	-7.46	Peak
399.03	1.80	15.06	41.91	62.58	37.53	46.00	-8.47	Peak
2440.15	3.11	31.25	35.90	87.26	85.72	94.0	-8.28	Peak
4879.26	3.11	31.61	34.72	39.70	38.70	54.0	-15.30	Peak
7219.40	3.12	32.16	35.17	31.94	32.04	54.0	-21.96	Peak
9760.70	3.12	35.31	35.00	34.01	38.44	54.0	-15.56	Peak
12119.16	3.13	36.40	34.79	28.00	32.74	54.0	-21.26	Peak
14639.42	3.14	37.85	34.50	23.40	30.69	54.0	-23.31	Peak
17079.19	3.14	38.60	34.35	20.86	28.25	54.0	-25.75	Peak
19519.28	3.15	38.98	34.04	15.90	23.99	54.0	-30.01	Peak
21959.81	3.15	39.32	33.81	16.72	25.38	54.0	-28.62	Peak
24339.73	3.16	40.01	33.62	14.92	24.47	54.0	-29.53	Peak

CH High(2480MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
55.30	0.60	13.02	39.80	58.10	31.92	40.00	-8.08	Peak
729.35	2.65	18.88	39.49	54.53	35.57	46.00	-9.43	Peak
2480.30	3.11	31.32	36.00	87.20	85.63	94.0	-8.37	Peak
4958.15	3.11	31.63	34.80	38.83	38.77	54.0	-15.23	Peak
7439.61	3.12	32.16	35.20	35.01	35.11	54.0	-18.89	Peak
9919.94	3.12	35.31	34.98	29.49	32.94	54.0	-21.06	Peak
12400.27	3.13	36.40	34.79	29.60	34.34	54.0	-19.66	Peak
14879.51	3.14	37.88	34.50	26.85	33.67	54.0	-19.33	Peak
17359.40	3.15	38.60	34.35	21.50	28.90	54.0	-25.10	Peak
19839.76	3.15	39.00	34.04	16.03	24.14	54.0	-29.86	Peak
22319.83	3.16	39.40	33.76	14.33	23.13	54.0	-30.87	Peak
24799.17	3.17	40.12	33.60	14.65	24.34	54.0	-29.66	Peak

Emissions attenuated more than 20 dB below the permissible value are not reported.

6. Occupied Bandwidth

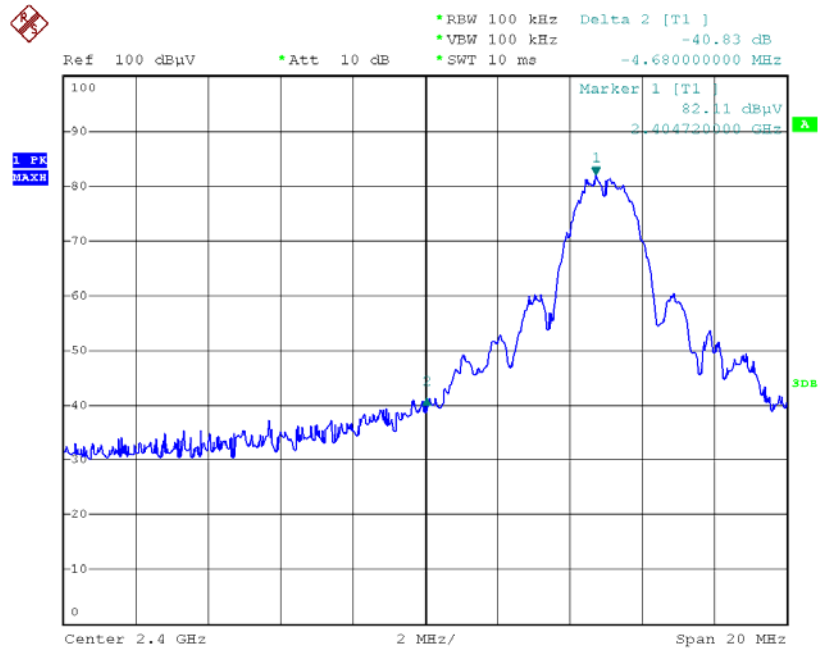
6.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

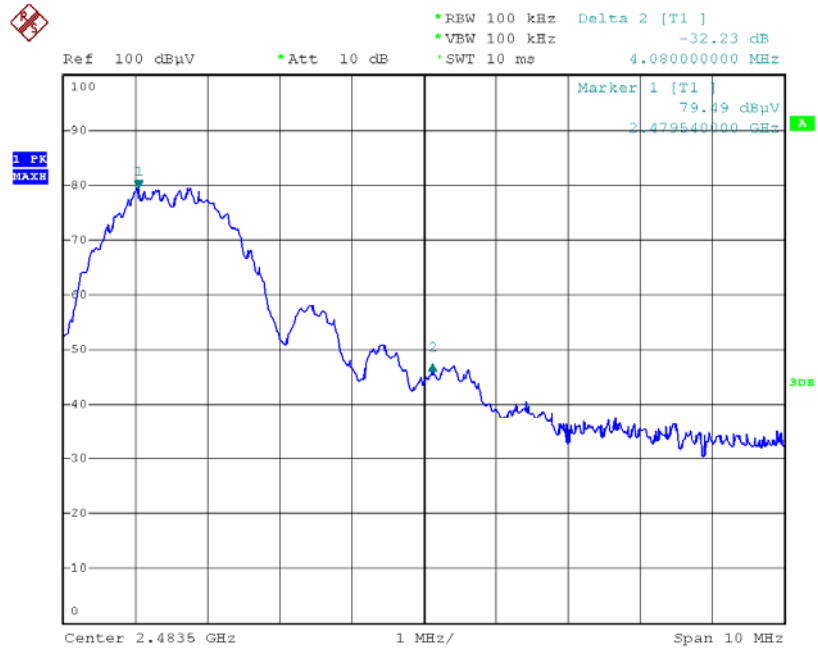
6.2 Test Results

Pass.

Please refer the following plot.



ANBOTEK
Date: 25.JAN.2010 14:11:44



ANBOTEK
Date: 25.JAN.2010 14:03:45