

FCC PART 15.249 MEASUREMENT AND TEST REPORT FOR

Goodbetterbest Limited

Suites 103-107 Devonshire Business Centre Works Road Letchworth Herts SG6

1GJ United Kingdom

FCC ID: VS9-VX1PS3

Report Concerns: Original Report	Equipment Type: VX1 WIRELESS CONTROLLER
Model:	<u>VX1PS3</u>
Report No.:	<u>STR11108119I</u>
Test Date:	<u>2011-10-20 to 2011-10-27</u>
Issue Date:	<u>2011-11-03</u>
Tested By:	<u>Susan Su / Engineer</u> <i>Susan Su</i>
Reviewed By:	<u>Lahm Peng / EMC Manager</u> <i>Lahm peng</i>
Approved & Authorized By:	<u>Jandy so / PSQ Manager</u> <i>Jandyso</i>
Prepared By:	<p style="text-align: center;">SEM.Test Compliance Service Co., Ltd 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C. (518101) Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn</p>

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Goodbetterbest Limited
 Address of applicant: Suites 103-107 Devonshire Business Centre Works Road
 Letchworth Herts SG6 1GJ United Kingdom

Manufacturer: SHENZHEN KINGLINE ELECTRONICS CO., LTD
 Address of manufacturer: 2/F, Tiegang center, Building, Xixiang, Bao'an Shenzhen

General Description of E.U.T

Items	Description
EUT Description:	VX1 WIRELESS CONTROLLER
Trade Name:	Gioteck
Model No.:	VX1PS3
Rated Voltage:	DC 3.7V with USB Charging
Frequency Range:	2410-2470 MHz
Channel Spacing:	/
Antenna Type:	Integral Antenna
Comment:	Manual Operation Device
For more information refer to the circuit diagram form and the user's manual.	

The test data is gathered from a production sample, provided by the manufacturer.

1.2 Test Standards

The following report is prepared on behalf of the Goodbetterbest Limited in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the Operating Instructions and let the EUT keep transmitting.

1.4 Test Facility

- **FCC – Registration No.: 994117**

SEM.Test Compliance Services Co., Ltd. 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 and the Registration is 994117.

- **Industry Canada (IC) Registration No.: 7673A**

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

- **CNAS Registration No.: L4062**

Shenzhen SEM.Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

1.5 EUT Exercise Software

The EUT exercise program used during the testing was designed to exercise the system components. The test software is started while the whole system is on.

1.6 Accessories Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	ASUS	X50R	N/A

1.7 EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	2.0	Unshielded	Without Core

2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emission	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.209	Radiated Emission	Compliant
§15.249(a)	Field Strength	Compliant
§15.249(d)	Out of Band Emission	Compliant

3. §15.203 - ANTENNA REQUIREMENT

3.1 Standard Applicable

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. §15.207 (a)- CONDUCTED EMISSION

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

4.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2010-12-20	2011-12-19
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2010-12-20	2011-12-19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2010-12-20	2011-12-19

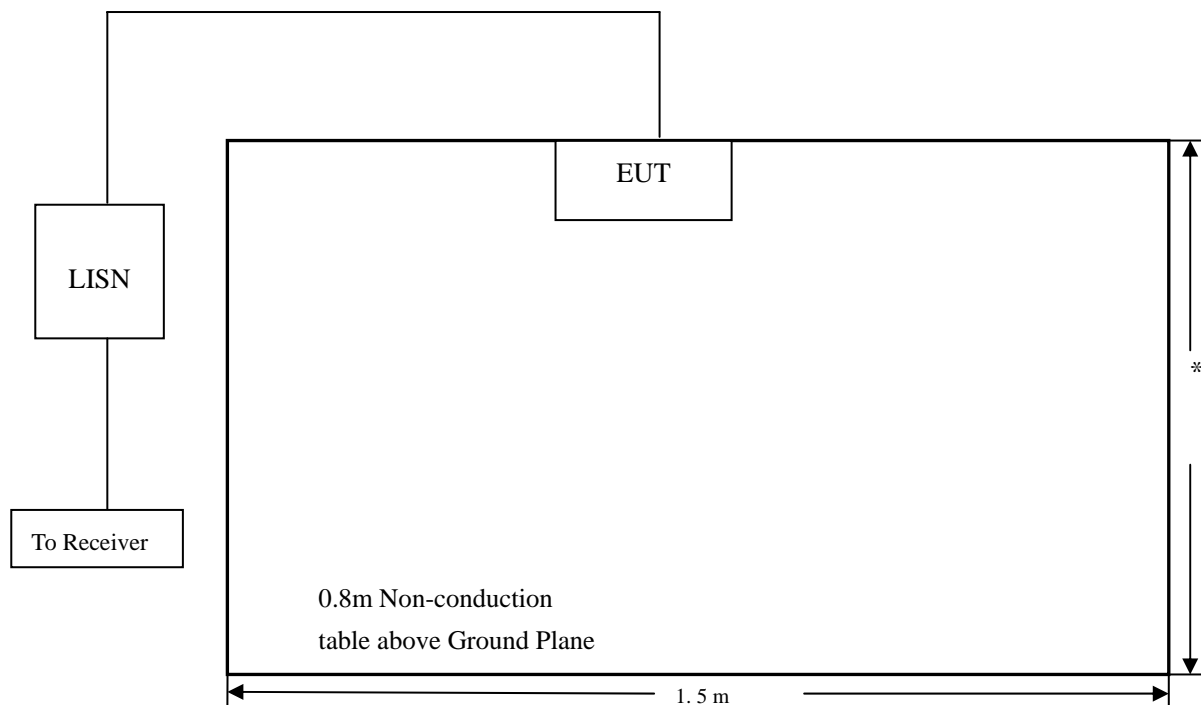
4.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

4.4 Basic Test Setup Block Diagram



4.5 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

4.6 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
 Stop Frequency..... 30 MHz
 Sweep Speed Auto
 IF Bandwidth..... 10 kHz
 Quasi-Peak Adapter Bandwidth 9 kHz
 Quasi-Peak Adapter Mode Normal

4.7 Summary of Test Results/Plots

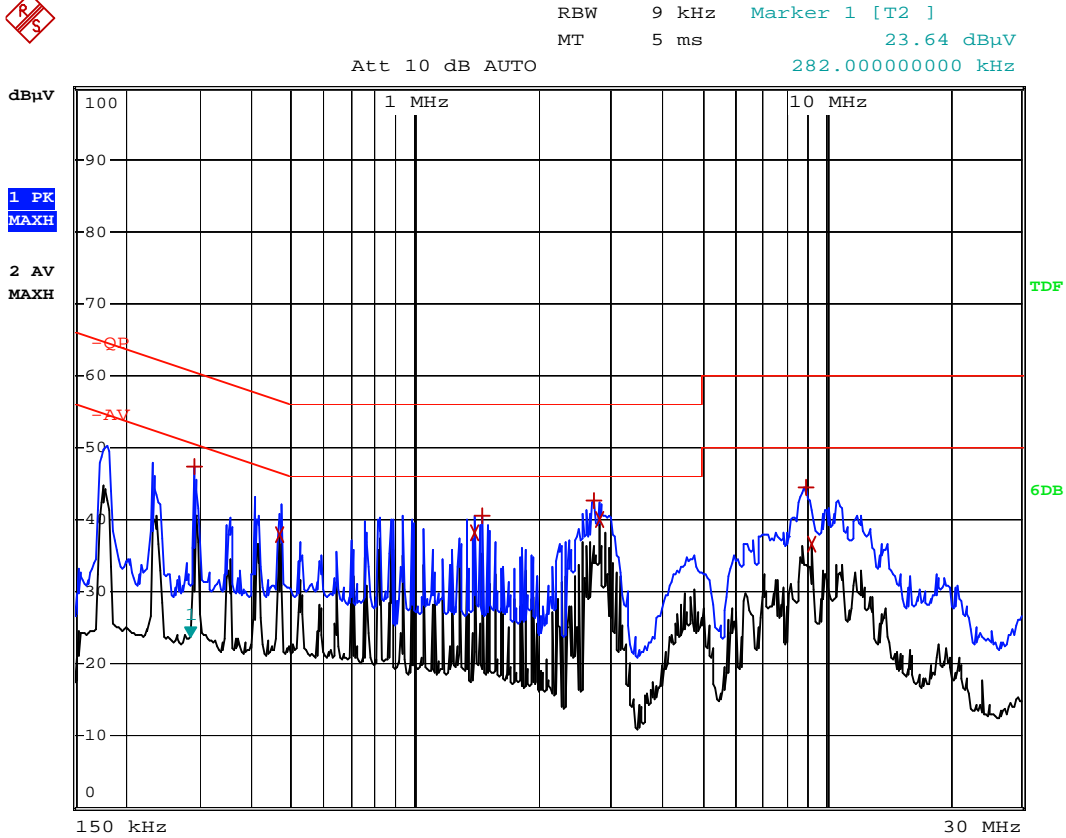
According to the data in section 3.8, the EUT complied with the FCC Part 15B Conducted margin for a Class B device, with the *worst* margin reading of:

-7.88 dBμV at 1.402 MHz in the Neutral, Average detector, 0.15-30MHz

4.8 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

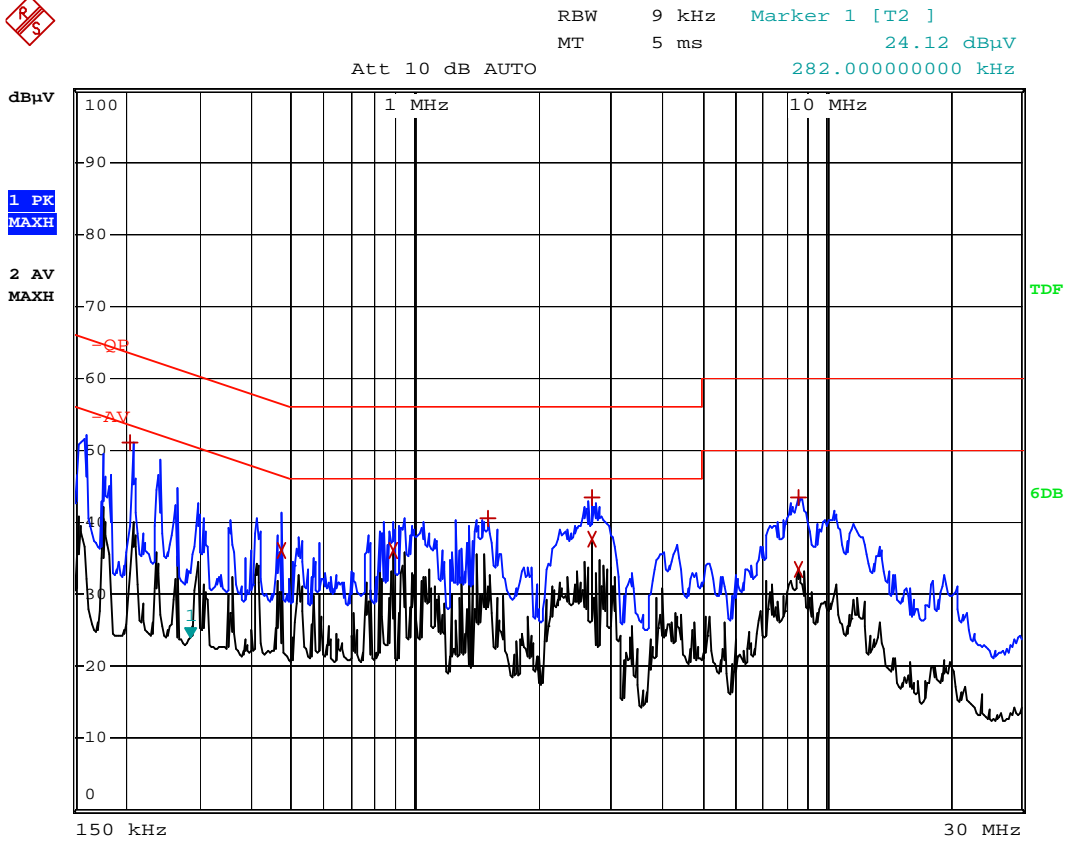
Conducted Disturbance
 EUT: VX1 WIRELESS CONTROLLER
 M/N: VX1PS3
 Operating Condition: Charging
 Test Specification: N
 Comment: 120V/60Hz; USB 5V



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Max Peak	290 kHz	47.41	-13.11
2 Average	466 kHz	37.85	-8.72
2 Average	1.402 MHz	38.11	-7.88
1 Max Peak	1.458 MHz	40.58	-15.41
1 Max Peak	2.742 MHz	42.61	-13.38
2 Average	2.806 MHz	40.04	-5.95
1 Max Peak	8.942 MHz	44.58	-15.41
2 Average	9.226 MHz	36.72	-13.27

Plot of Conducted Emissions Test Data

Conducted Disturbance
 EUT: VX1 WIRELESS CONTROLLER
 M/N: VX1PS3
 Operating Condition: Charging
 Test Specification: L
 Comment: 120V/60Hz; USB 5V



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Max Peak	206 kHz	50.96	-12.40
2 Average	470 kHz	36.09	-10.41
2 Average	882 kHz	35.98	-10.01
1 Max Peak	1.51 MHz	40.65	-15.34
2 Average	2.698 MHz	37.78	-8.21
1 Max Peak	2.71 MHz	43.38	-12.61
1 Max Peak	8.594 MHz	43.40	-16.59
2 Average	8.63 MHz	33.36	-16.63

5. §15.205, §15.209, §15.249 (a)- RADIATED EMISSION

5.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

5.2 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of fundamental (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) 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.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2011-01-09	2012-01-08

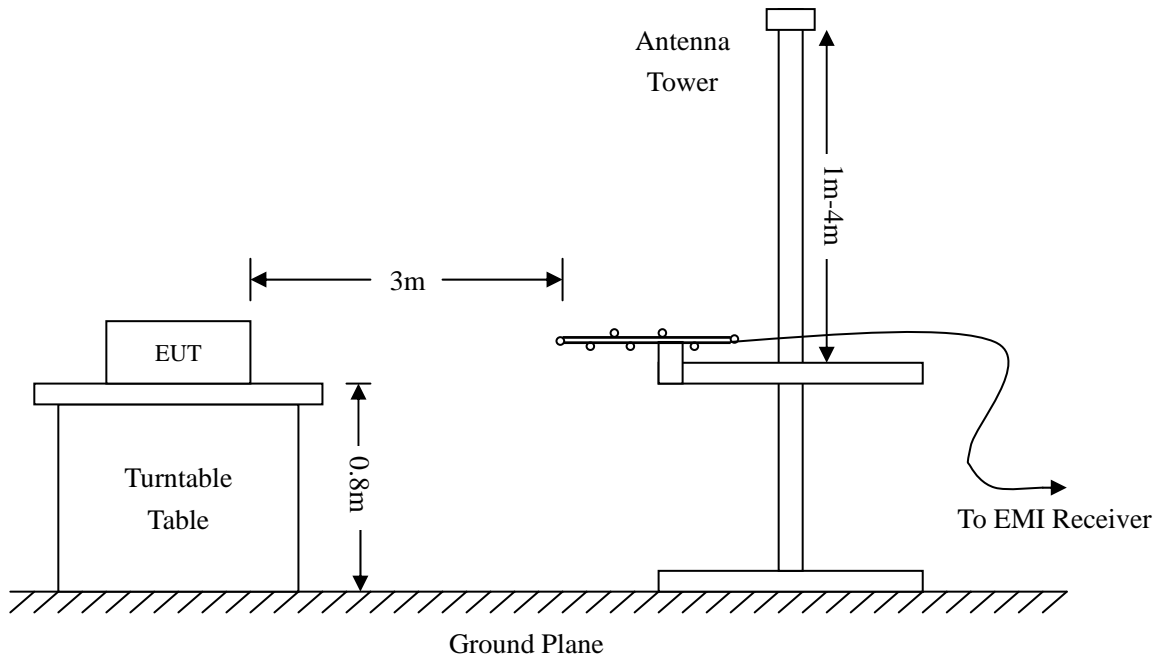
Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

5.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



5.5 Corrected Amplitude & Margin Calculation

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

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

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

5.6 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

5.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

-2.55 dB μ V at 804.6028 MHz in the Horizontal polarization, 9 kHz to 25 GHz, 3Meters

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Plot of Radiation Emissions Test

Radiated Disturbance

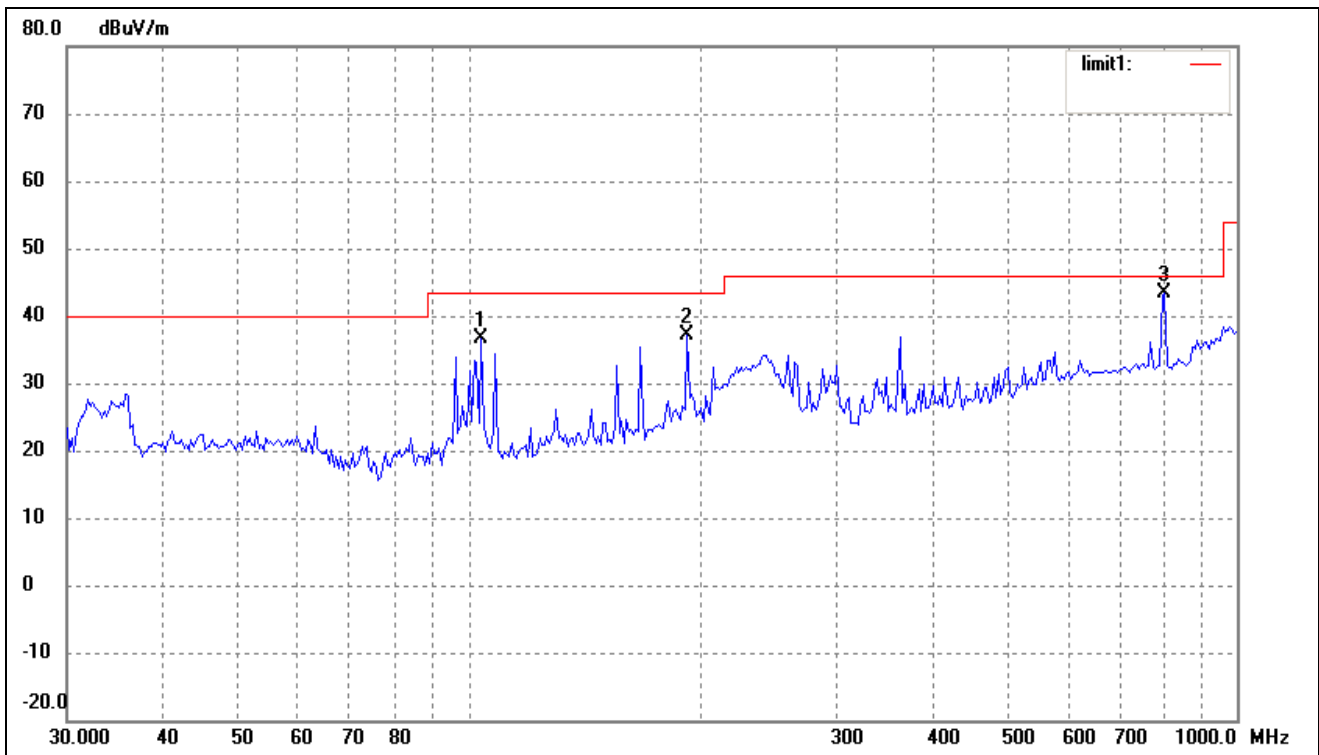
EUT: VX1 WIRELESS CONTROLLER

M/N: VX1PS3

Operating Condition: Charging

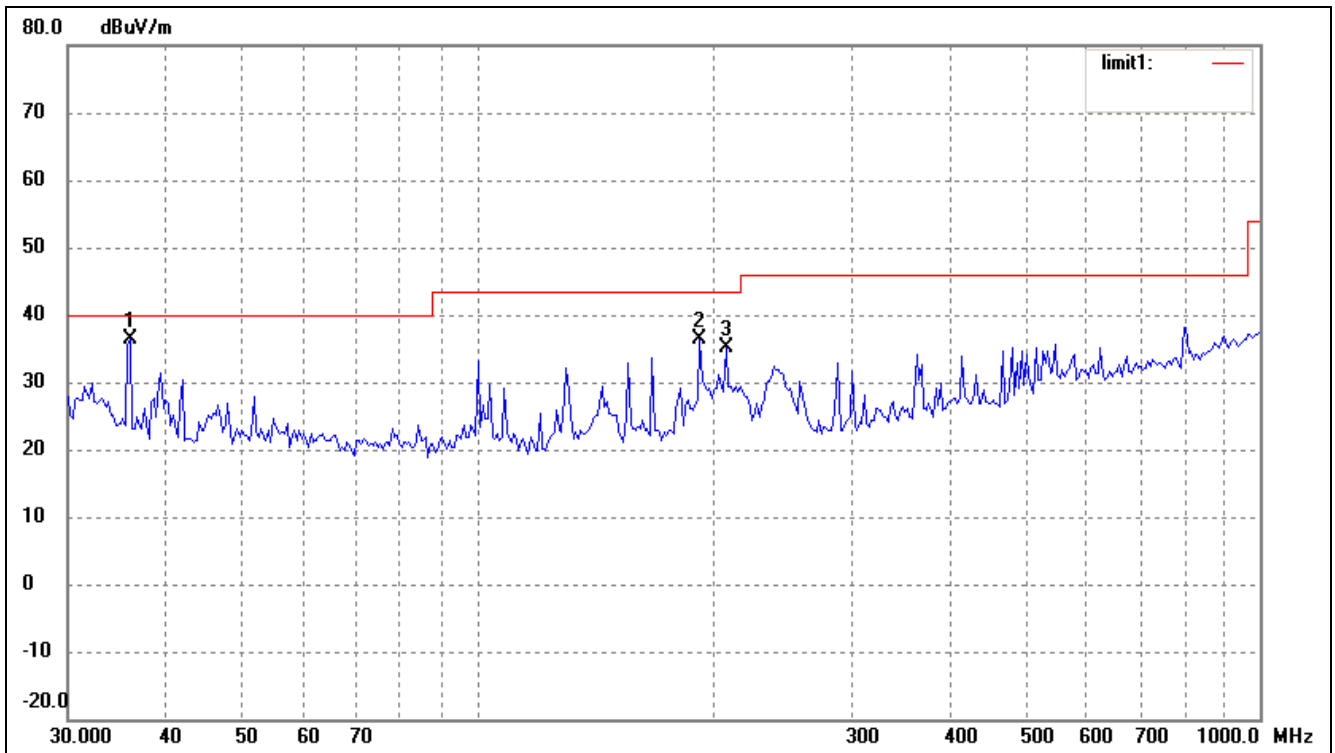
Test Specification: Horizontal & Vertical

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	103.8055	28.53	8.11	36.64	43.50	-6.86	305	100	QP
2	192.4186	30.62	6.54	37.16	43.50	-6.34	64	100	QP
3	804.6028	24.35	19.10	43.45	46.00	-2.55	17	100	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	36.0007	29.24	7.05	36.29	40.00	-3.71	147	100	QP
2	192.4186	29.93	6.54	36.47	43.50	-7.03	25	100	QP
3	207.8501	28.22	6.86	35.08	43.50	-8.42	80	100	QP

Plot of Radiation Emissions Test

Radiated Disturbance

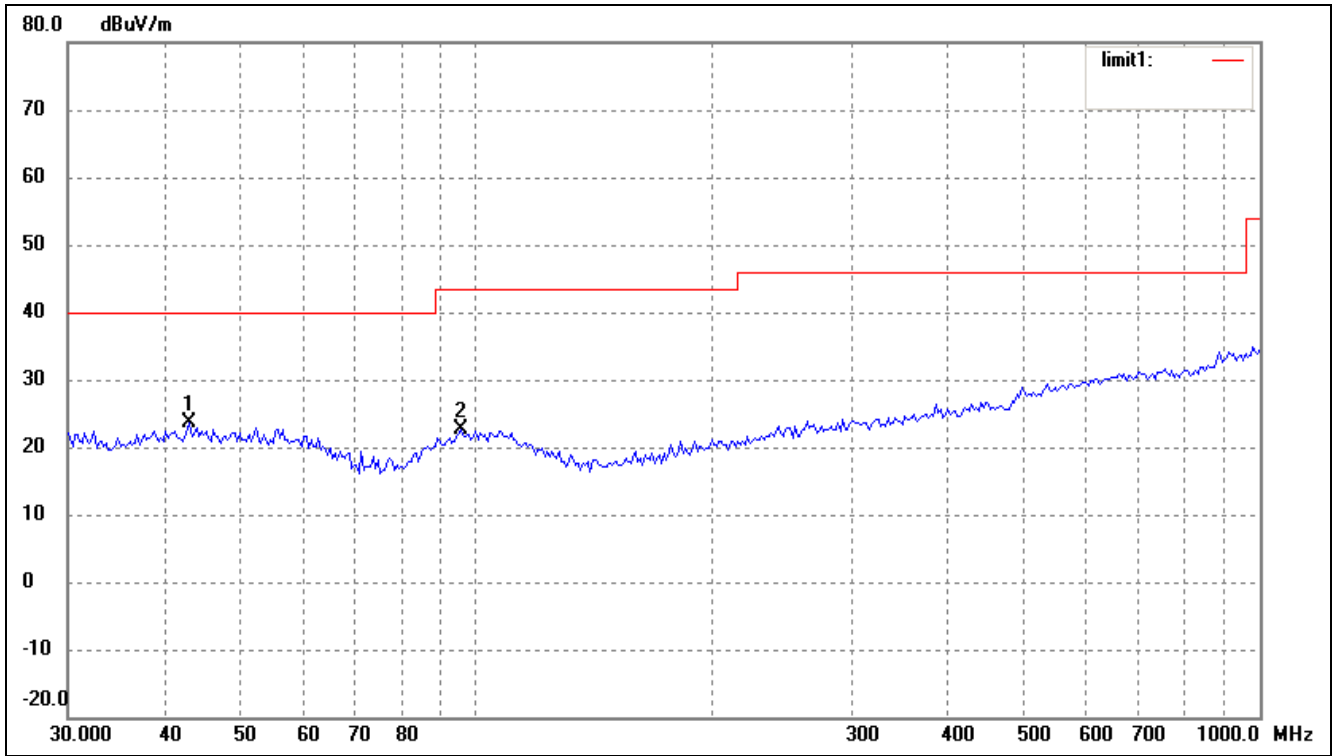
EUT: VX1 WIRELESS CONTROLLER

M/N: VX1PS3

Operating Condition: Transmitting below 1GHz (Low CH 2410MHz)

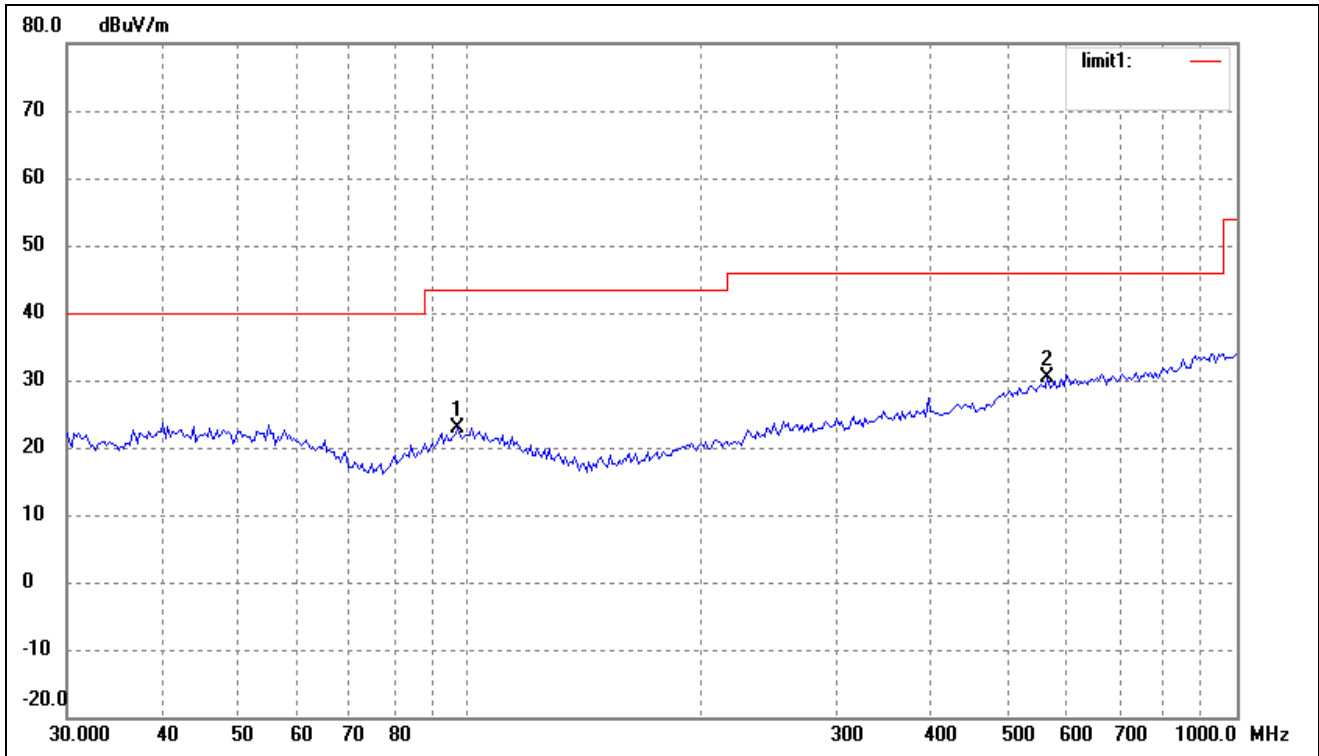
Test Specification: Horizontal & Vertical

Horizontal:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	42.8998	15.78	7.97	23.75	40.00	-16.25	145	100	peak
2	95.4270	15.02	7.50	22.52	43.50	-20.98	96	100	peak

Vertical:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	96.7749	15.30	7.59	22.89	43.50	-20.61	315	100	peak
2	566.6223	16.60	13.76	30.36	46.00	-15.64	76	100	peak

Radiated Disturbance

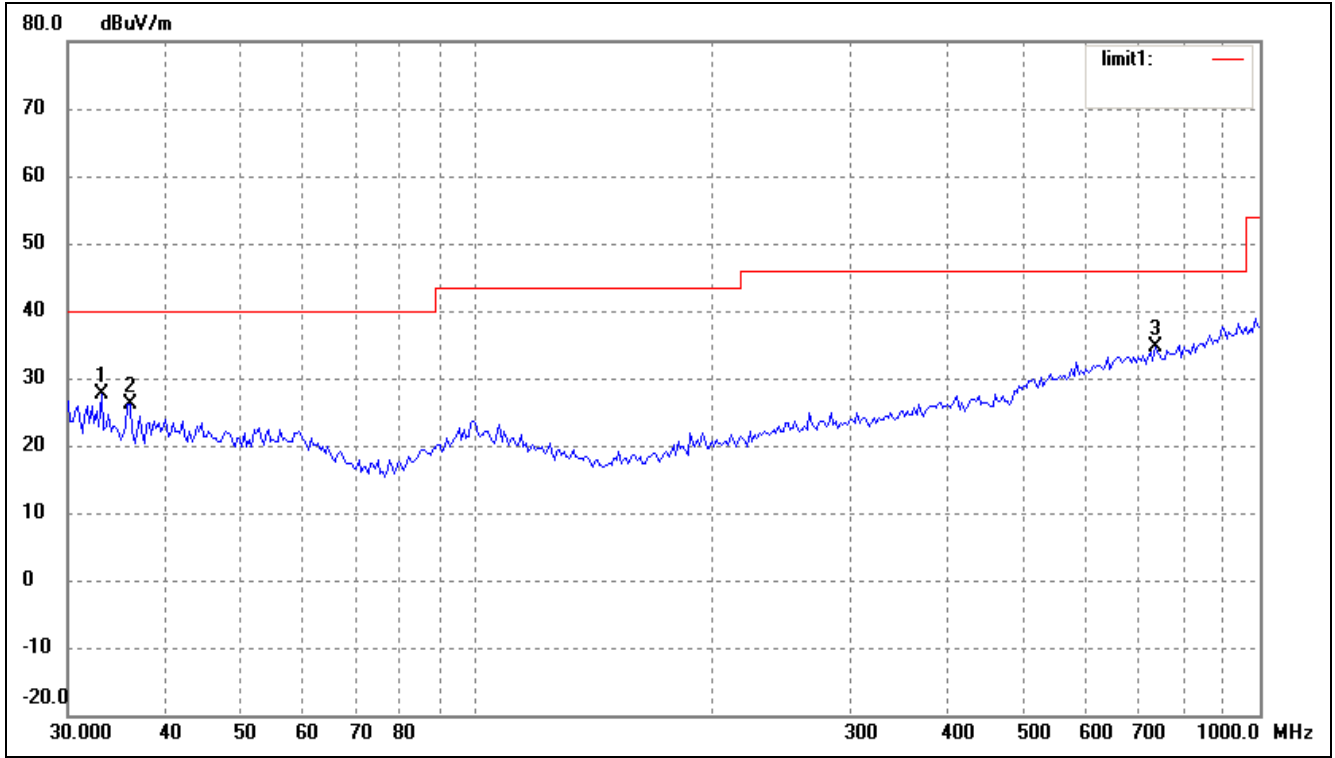
EUT: VX1 WIRELESS CONTROLLER

M/N: VX1PS3

Operating Condition: Transmitting below 1GHz (Middle CH 2440MHz)

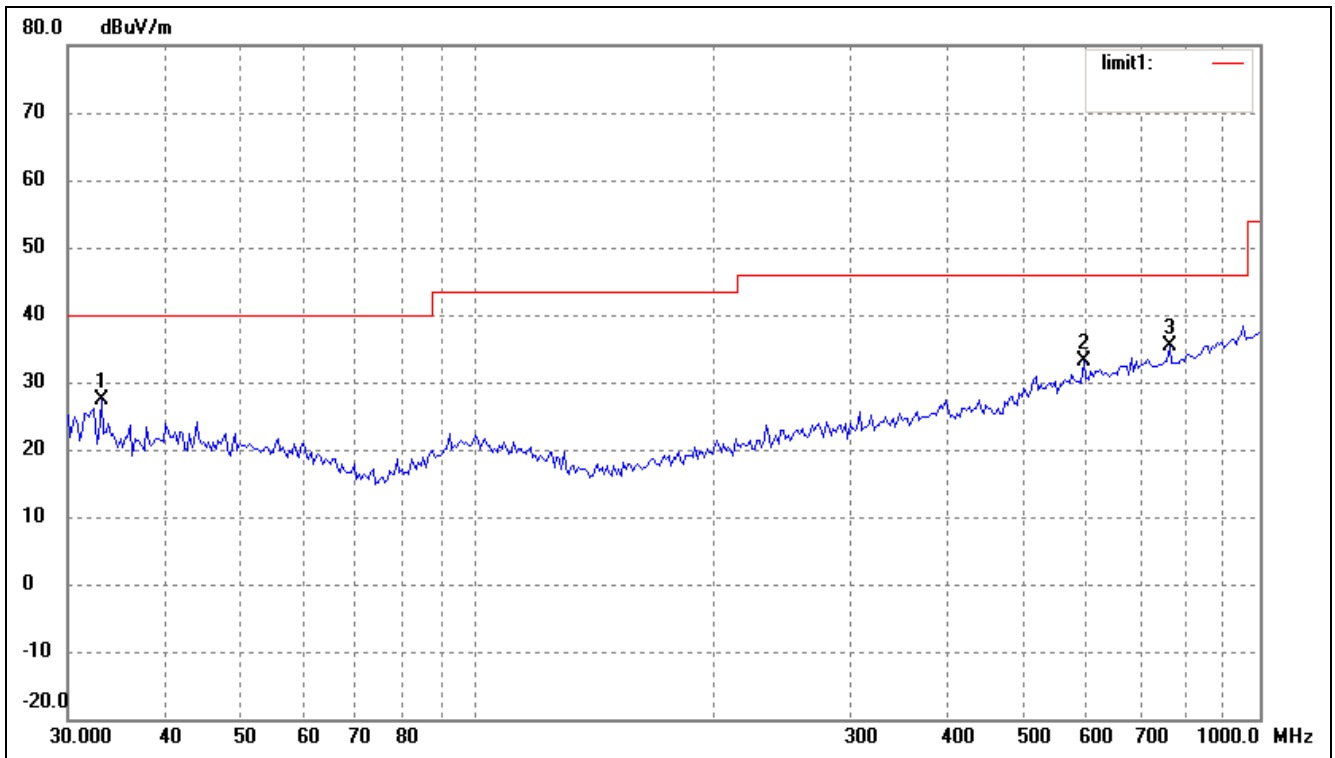
Test Specification: Horizontal & Vertical

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	20.77	6.77	27.54	40.00	-12.46	214	100	peak
2	36.0007	19.05	7.05	26.10	40.00	-13.90	36	100	peak
3	734.4913	16.60	18.02	34.62	46.00	-11.38	94	100	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	20.68	6.77	27.45	40.00	-12.55	276	100	peak
2	595.1329	16.51	16.55	33.06	46.00	-12.94	87	100	peak
3	766.0572	16.89	18.51	35.40	46.00	-10.60	91	100	peak

Radiated Disturbance

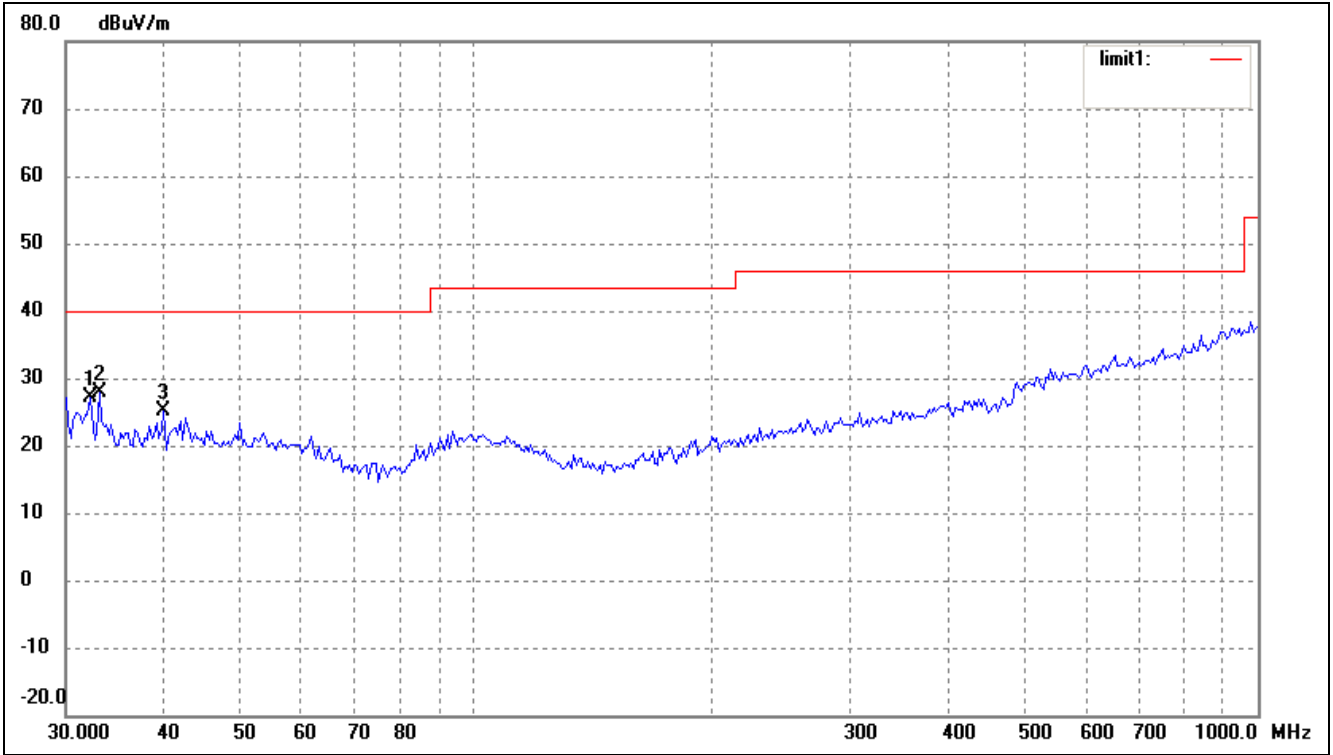
EUT: VX1 WIRELESS CONTROLLER

M/N: VX1PS3

Operating Condition: Transmitting below 1GHz (High CH 2470MHz)

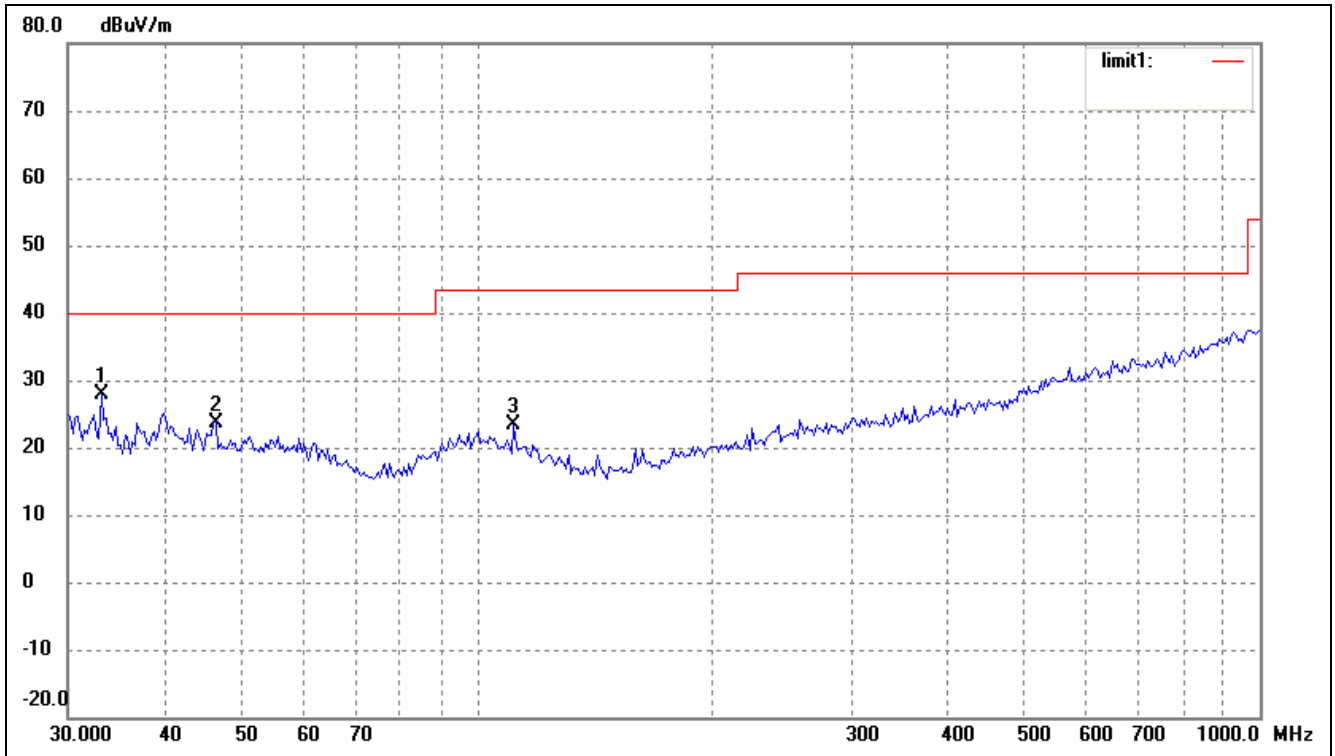
Test Specification: Horizontal & Vertical

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	32.1795	20.27	6.77	27.04	40.00	-12.96	47	100	peak
2	33.0950	21.05	6.77	27.82	40.00	-12.18	22	100	peak
3	39.9942	17.00	8.14	25.14	40.00	-14.86	67	100	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.0950	21.01	6.77	27.78	40.00	-12.22	305	100	peak
2	46.3402	15.59	8.16	23.75	40.00	-16.25	77	100	peak
3	111.3468	16.06	7.36	23.42	43.50	-20.08	69	100	peak

Spurious Emission Above 1GHz

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
Low Channel (2410MHz)										
4820	AV	32.2	24	H	34.1	5.2	33.0	38.5	54	-15.5
4820	AV	29.7	341	V	34.1	5.2	33.0	36.0	54	-18.0
4820	PK	53.1	24	H	37.4	6.1	33.5	63.1	74	-10.9
4820	PK	51.6	341	V	37.4	6.1	33.5	61.6	74	-12.4
7230	AV	36.4	325	H	29.1	3.7	34.0	35.2	54	-18.8
7230	AV	35.3	91	V	29.1	3.7	34.0	34.1	54	-19.9
7230	PK	56.5	325	H	34.1	5.2	33.0	62.8	74	-11.2
7230	PK	54.4	91	V	34.1	5.2	33.0	60.7	74	-13.3
2410	AV	41.6	33	H	37.4	6.1	33.5	51.6	94	-42.4
2410	AV	40.7	34	V	37.4	6.1	33.5	50.7	94	-43.3
2410	PK	88.4	164	H	29.1	3.7	34.0	87.2	114	-26.8
2410	PK	86.5	159	V	29.1	3.7	34.0	85.3	114	-28.7
Middle Channel (2440MHz)										
4880	AV	29.2	145	H	34.1	5.2	33.0	35.5	54	-18.5
4880	AV	26.7	78	V	34.1	5.2	33.0	33.0	54	-21.0
4880	PK	52.1	145	H	37.4	6.1	33.5	62.1	74	-11.9
4880	PK	51.6	78	V	37.4	6.1	33.5	61.6	74	-12.4
7320	AV	35.4	177	H	29.1	3.7	34.0	34.2	54	-19.8
7320	AV	33.8	28	V	29.1	3.7	34.0	32.6	54	-21.4
7320	PK	56.5	177	H	34.1	5.2	33.0	62.8	74	-11.2
7320	PK	54.4	28	V	34.1	5.2	33.0	60.7	74	-13.3
2440	AV	41.1	77	H	37.4	6.1	33.5	51.1	94	-42.9
2440	AV	39.7	267	V	37.4	6.1	33.5	49.7	94	-44.3
2440	PK	88.2	77	H	29.1	3.7	34.0	87.0	114	-27.0
2440	PK	86.0	267	V	29.1	3.7	34.0	84.8	114	-29.2
High Channel (2470MHz)										
4940	AV	30.2	216	H	34.1	5.2	33.0	36.5	54	-17.5
4940	AV	26.7	25	V	34.1	5.2	33.0	33.0	54	-21.0
4940	PK	53.1	216	H	37.4	6.1	33.5	63.1	74	-10.9
4940	PK	51.6	25	V	37.4	6.1	33.5	61.6	74	-12.4
7410	AV	35.4	147	H	29.1	3.7	34.0	34.2	54	-19.8
7410	AV	33.3	55	V	29.1	3.7	34.0	32.1	54	-21.9
7410	PK	53.9	147	H	34.1	5.2	33.0	60.2	74	-13.8
7410	PK	52.4	55	V	34.1	5.2	33.0	58.7	74	-15.3

2470	AV	39.6	305	H	37.4	6.1	33.5	49.6	94	-44.4
2470	AV	38.7	44	V	37.4	6.1	33.5	48.7	94	-45.3
2470	PK	86.7	305	H	29.1	3.7	34.0	85.5	114	-28.5
2470	PK	84.5	44	V	29.1	3.7	34.0	83.3	114	-30.7

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th Harmonics is close to the noise base even antenna close up to 1meter distance according the measurement of ANSI C63.4. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

6. §15.249(b) OUT OF BAND EMISSIONS

6.1 Standard Applicable

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.

6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

6.3 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

6.4 Environmental Conditions

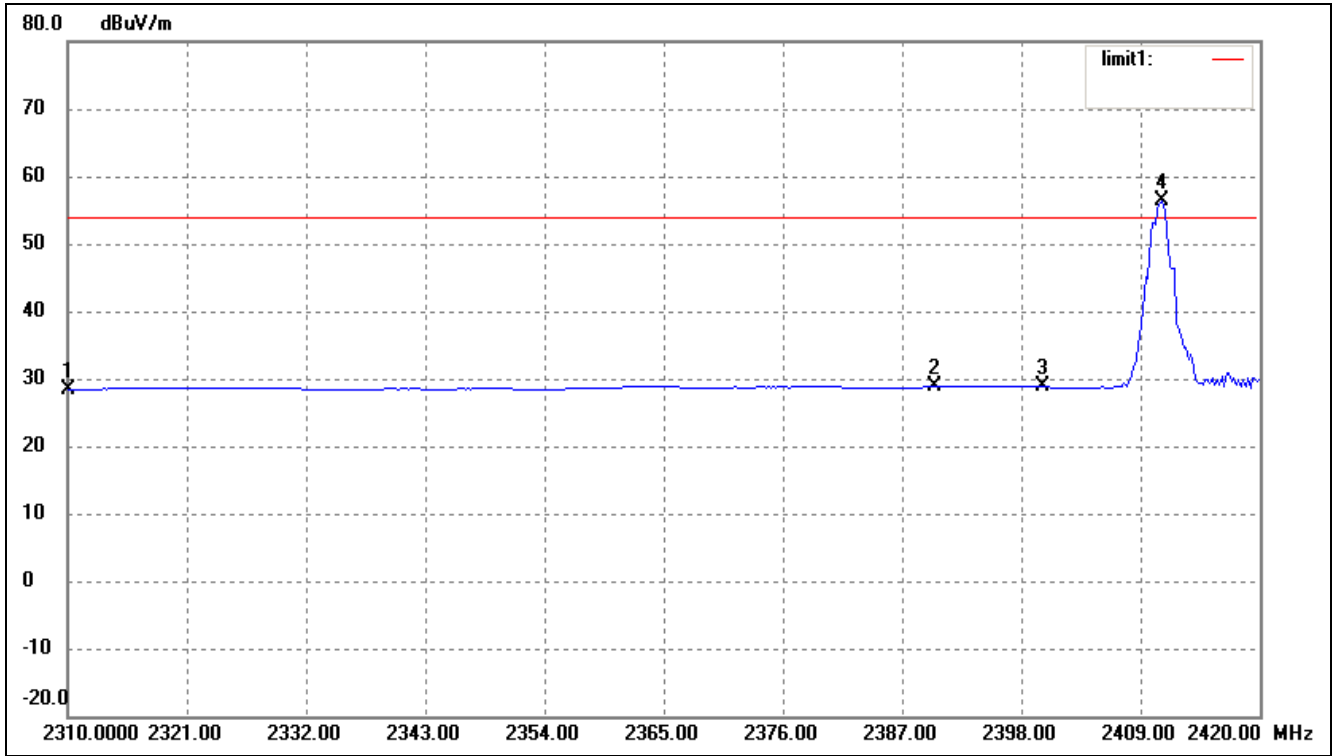
Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

6.5 Summary of Test Results/Plots

Frequency MHz	Limit dBuv	Result
Low Edge	<54	Pass
High Edge	<54	Pass

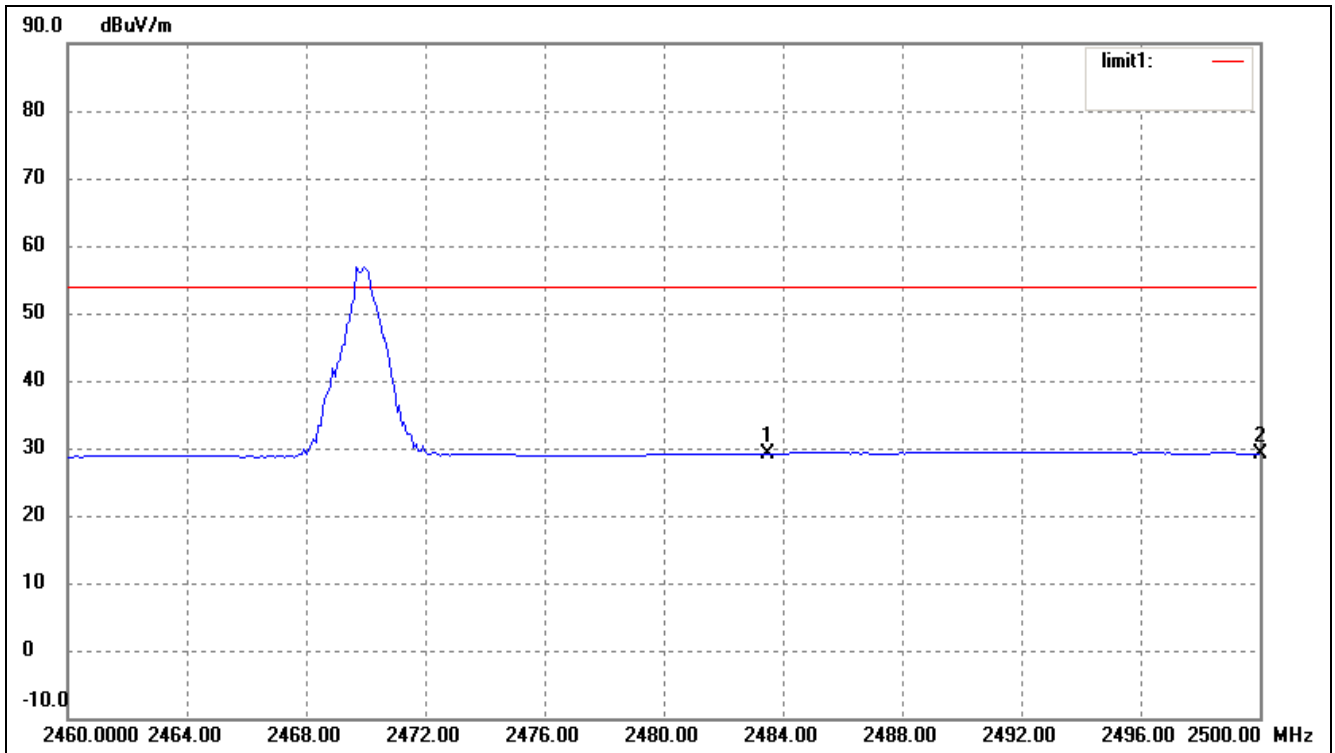
The edge emissions are below the FCC 15.209 Limits. Please refer to the test plots below.

Lowest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	35.96	-7.51	28.45	54.00	-25.55	Ave Detector
	2310.000	50.51	-7.51	43.00	74.00	-31.00	Peak Detector
2	2390.000	36.19	-7.34	28.85	54.00	-25.15	Ave Detector
	2390.000	50.61	-7.34	43.27	74.00	-30.73	Peak Detector
3	2400.000	36.16	-7.31	28.85	54.00	-25.15	Ave Detector
	2400.000	51.93	-7.31	44.62	74.00	-29.38	Peak Detector
4	2410.980	63.76	-7.28	56.48	/	/	Ave Detector

Highest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.30	-7.13	29.17	54.00	-24.83	Ave Detector
	2483.500	49.75	-7.13	42.62	54.00	-11.38	Peak Detector
2	2500.000	36.09	-7.08	29.01	54.00	-24.99	Ave Detector
	2500.000	50.32	-7.08	43.24	54.00	-10.76	Peak Detector

***** END OF REPORT *****