

Produkte
Products

Prüfbericht - Nr.: 10036443 001
Test Report No.:

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Auftraggeber: <i>Client:</i>	Vencer Co., Ltd 20F-1, No. 77, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, 221 New Taipei City, Taiwan				
Gegenstand der Prüfung: Bluetooth V4.0 Proximity Tag <i>Test item:</i>					
Bezeichnung: <i>Identification:</i>	VK-1001	Serien-Nr.: <i>Serial No.:</i> N/A			
Wareneingangs-Nr.: <i>Receipt No.:</i>	TPE71631	Eingangsdatum: 2012/03/10 <i>Date of receipt:</i>			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>		The sample is ok for testing and not damaged			
Prüfort: <i>Testing location:</i>	TÜV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105 Taiwan FCC Registration No.: 365730				
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15: Subpart C Section 15.247 KDB 558074 of March 23, 2005				
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>				
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105, Taiwan, R.O.C.				
geprüft/ tested by:	kontrolliert/ reviewed by:				
2012-04-15	Arvin Ho/Section Manager	2012-04-18	Rene Charton/Senior Project Manager		
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges/ Other Aspects:					
Abkürzungen: P(pass) = entspricht Prüfgrundlage F(fail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet			Abbreviations: P(pass) = passed F(fail) = failed N/A = not applicable N/T = not tested		
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i></p>					

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 6dB BANDWIDTH

RESULT: Passed

5.1.4 POWER DENSITY

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH

RESULT: Passed

5.1.6 SPURIOUS EMISSION

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Photo

(File:10036443APPENDIX1)

Appendix 2: Test Result of Radiated Emissions

(File:10036443APPENDIX2)

Test Specifications

The following standards were applied (in bold: product standards, otherwise: basic standards).

Table 1: Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247 KDB 558074 of March 23, 2005

2. Test Sites

2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

FCC Registration No.: 365730

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	R&S	ESCI 7	1166.5950K07-100797-Pt	9-Nov-12
Bilog Antenna	TESEQ	CBL6111D	29802	1-Oct-12
Pre-Amplifier	HP	8447F	2805A03335	22-Dec-12
Spectrum Analyzer	R&S	FSV 40	100921	12-Oct-12
Horn Antenna (1GHz~18GHz)	COM-POWER	AHA118	701101	27-Dec-12
Horn Antenna (18GHz~25GHz)	COM-POWER	AH840	101031	1-Oct-12
Power meter	R&S	NRVD	100439	27-Mar-13
Power sensor	R&S	NRV-Z1	100013	27-Mar-13
Temp. & Humid. Chamber	Giant Force	GCT-099-40-S	MAF0103-007	13-May-13

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	$\pm 1 \text{ dB}$
Adjacent channel power	$\pm 3 \text{ dB}$
Radiated emission of transmitter, valid up to 26 GHz	$\pm 6 \text{ dB}$
Radiated emission of receiver, valid up to 26 GHz	$\pm 6 \text{ dB}$
Temperature	$\pm 2 \text{ }^{\circ}\text{C}$
Humidity	$\pm 10 \%$

3. General Product Information

3.1 Product Function and Intended Use

This Bluetooth Proximity Tag features convenient use, easy operation, small size, and easy to take, used with iPhone4S for phone finder and alert features. Implement the latest technology of Bluetooth 4.0 LE.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 Ratings and System Details

Table 4: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth V4.0 Proximity Tag
Brand Name	Vencer Co., Ltd
FCC ID	VHVBTVK1000
Type Designation	VK-1001
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	2 MHz
Channel number	40
Operation Voltage	DC 3 V from coin battery
Modulation	GFSK
Antenna gain	1.0 dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 4. All testing were performed according to the procedures in ANSI C63.10: 2009 and DA 00-705 of March 30, 2000.

Full test was applied on all test modes, but only worst case was shown.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Kind of Equipment	Manufacturer	Model Name	S/N
Laptop	MSI	MSI4532 (CX420MX)	CX420 MX-233TWK 1008000096

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

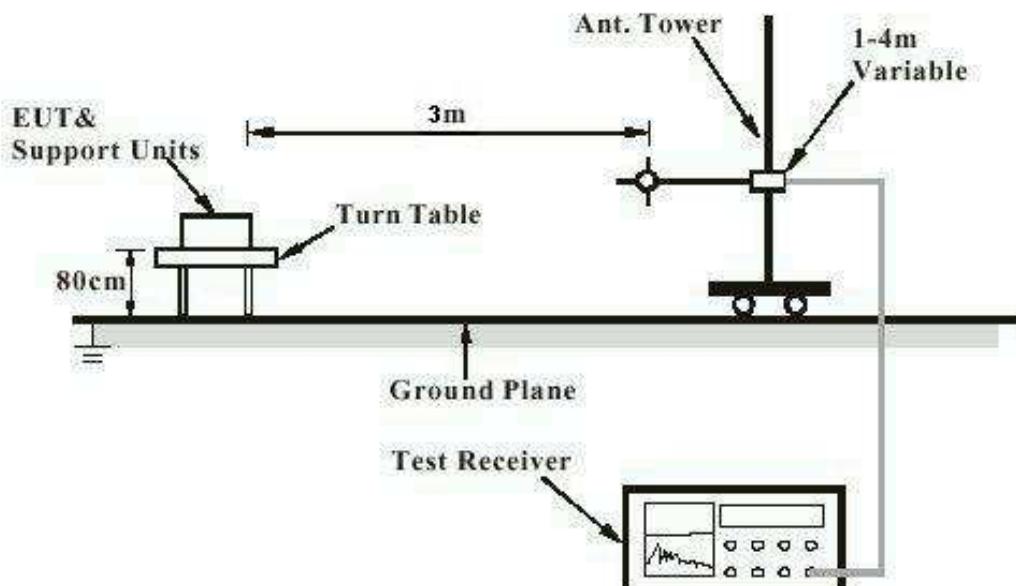


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

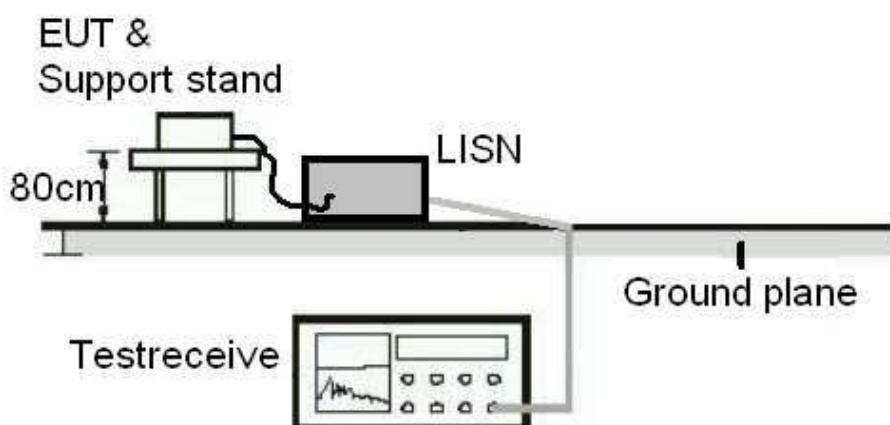
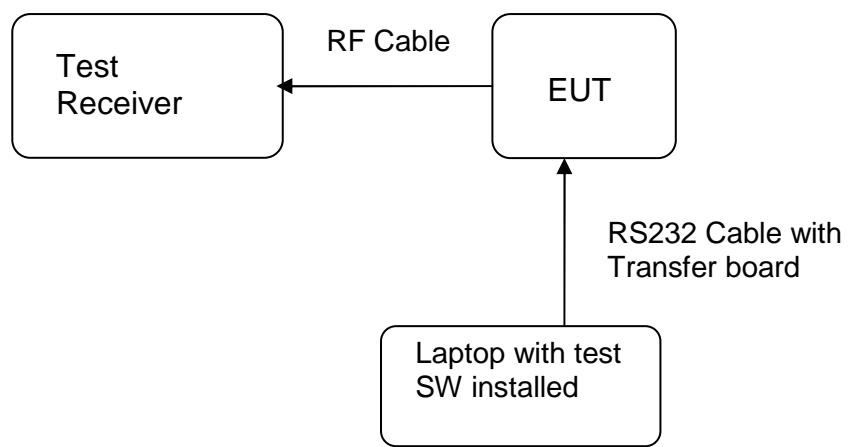


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2012-03-13
Test standard	:	FCC Part 15.247(b)(4), Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an internal antenna with a directional gain of 1.0 dBi, and the antenna is a printed PCB trace with no possibility of replacement. Therefore, the EUT is considered to comply the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:**Passed**

Test date : 2012-03-13
Test standard : FCC Part 15.247(b)(1)
Basic standard : KDB 558074 of March 23, 2005
Limit : 1 Watt
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 22°C
Relative humidity : 52%
Atmospheric pressure : 102 kPa

Table 5: Test result of Peak Output Power

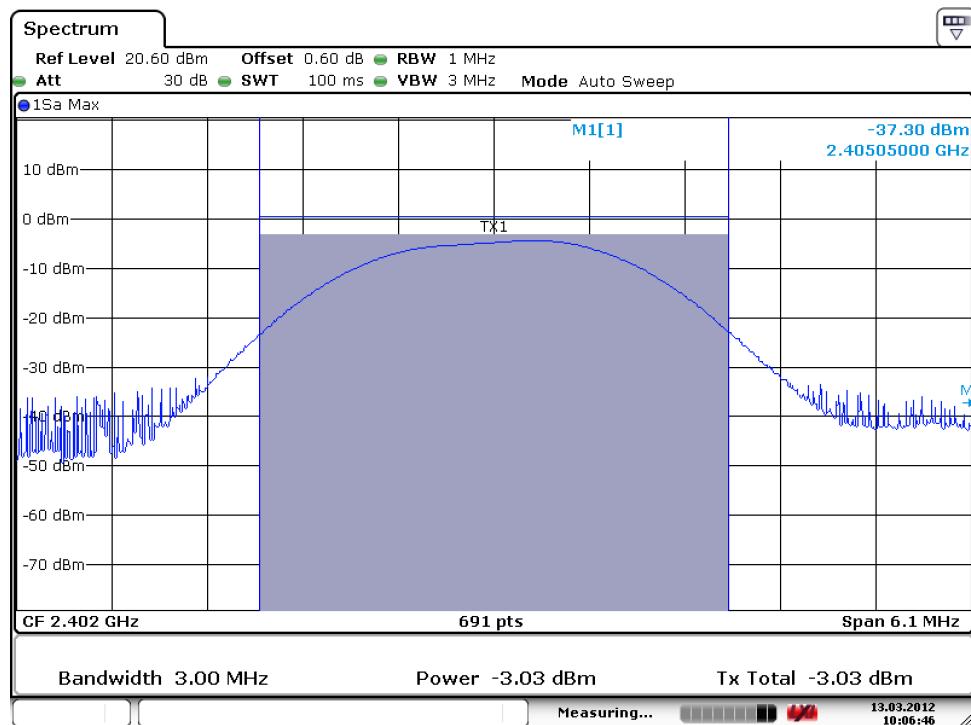
Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
Low Channel	2402	-3.03	0.0005	1
Middle Channel	2442	-1.23	0.0008	1
High Channel	2480	0.24	0.0011	1

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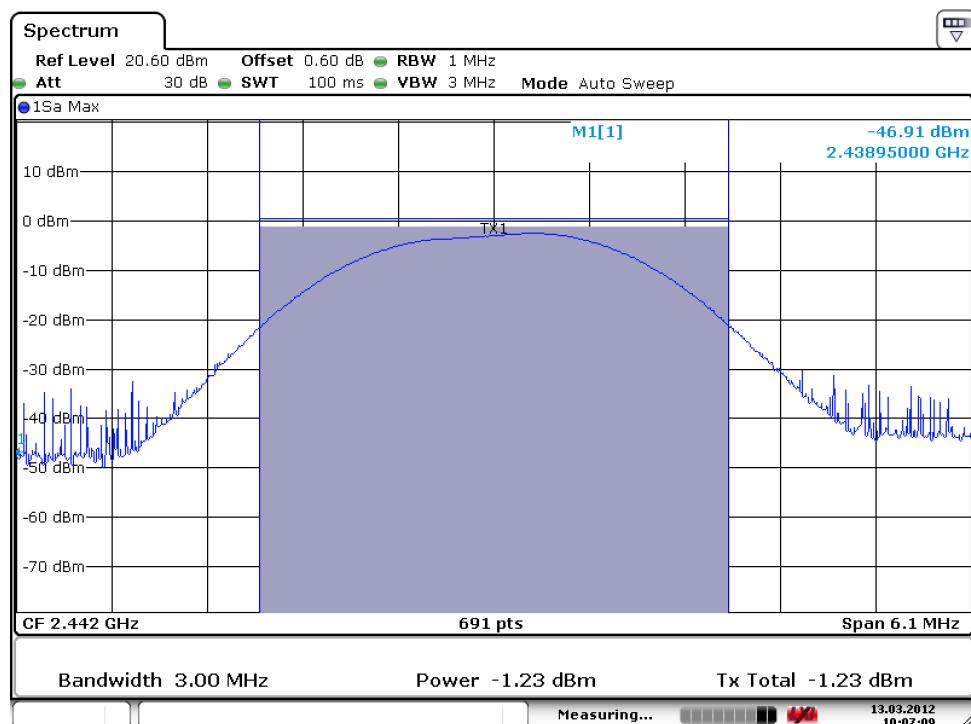
Test Plot of Peak Output Power

Low Channel

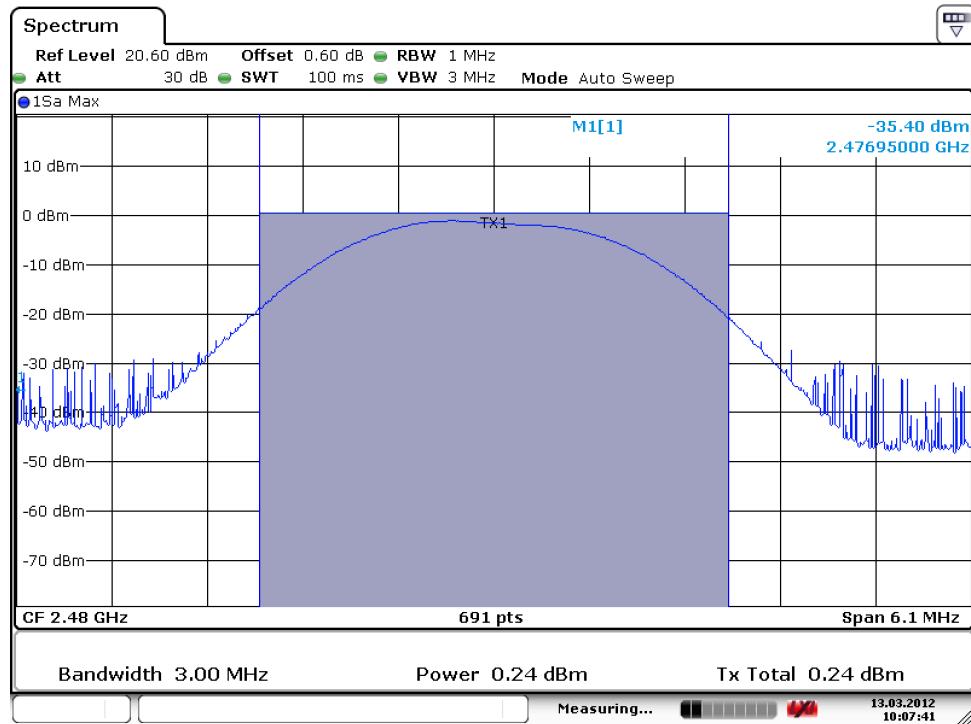


Date: 13.MAR.2012 10:06:46

Middle Channel



Date: 13.MAR.2012 10:07:10

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Date: 13.MAR.2012 10:07:42

5.1.3 6dB Bandwidth

RESULT:**Passed**

Date of testing : 2012-03-13
Test standard : FCC Part 15.247(a)(1)
Basic standard : KDB 558074 of March 23, 2005
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 102 kPa

Table 6: Test result of 6dB Bandwidth

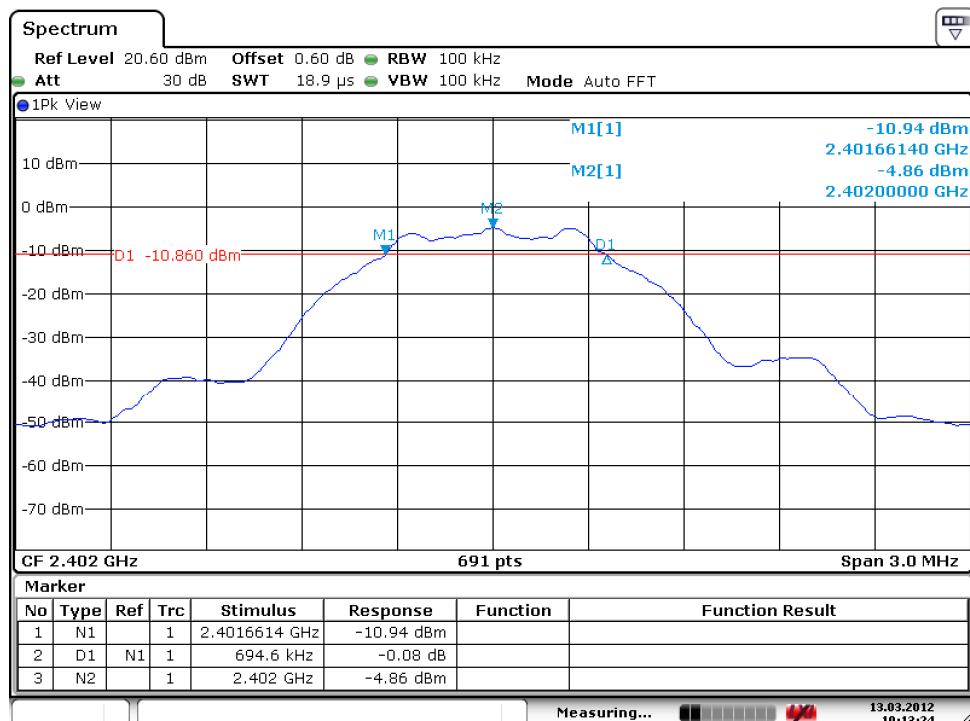
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	694.6	/	Pass
Mid Channel	2442	690.3	/	Pass
High Channel	2480	690.3	/	Pass

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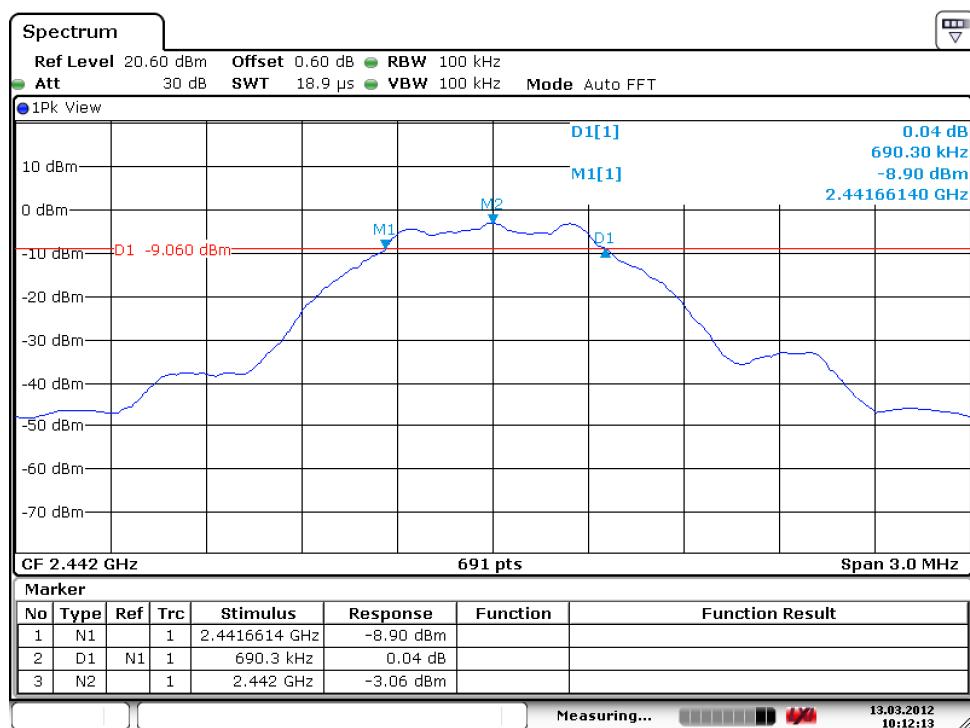
Test Plot of 6dB Bandwidth

Low Channel



Date: 13.MAR.2012 10:13:25

Middle Channel

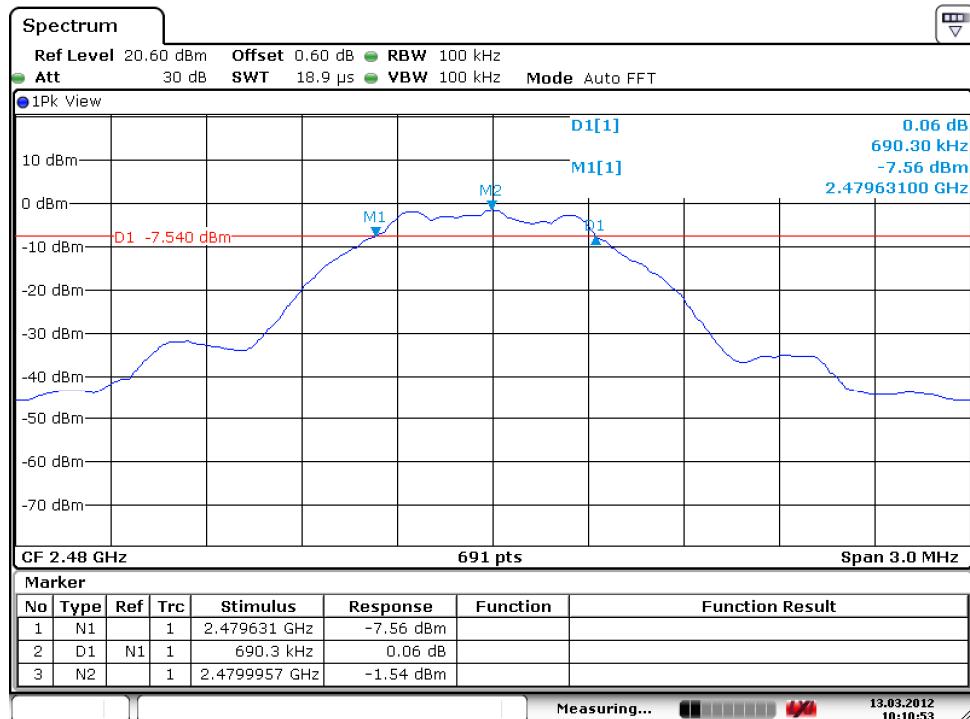


Date: 13.MAR.2012 10:12:14

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High Channel



Date: 13.MAR.2012 10:10:54

5.1.4 Power Density

RESULT:**Passed**

Date of testing : 2012-03-13
Test standard : FCC Part 15.247(e)
Basic standard : KDB 558074 of March 23, 2005
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 102 kPa

Table 7: Test result of Power Density

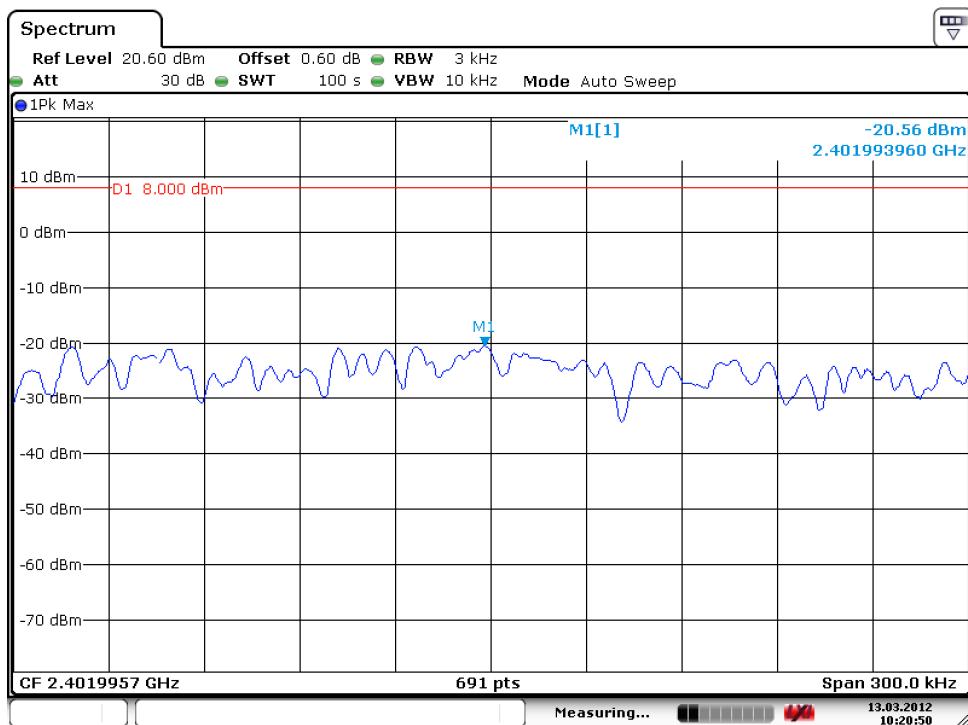
Channel	Channel Frequency (MHz)	Peak Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2402	-20.56	8	Pass
Mid Channel	2442	-18.99	8	Pass
High Channel	2480	-19.65	8	Pass

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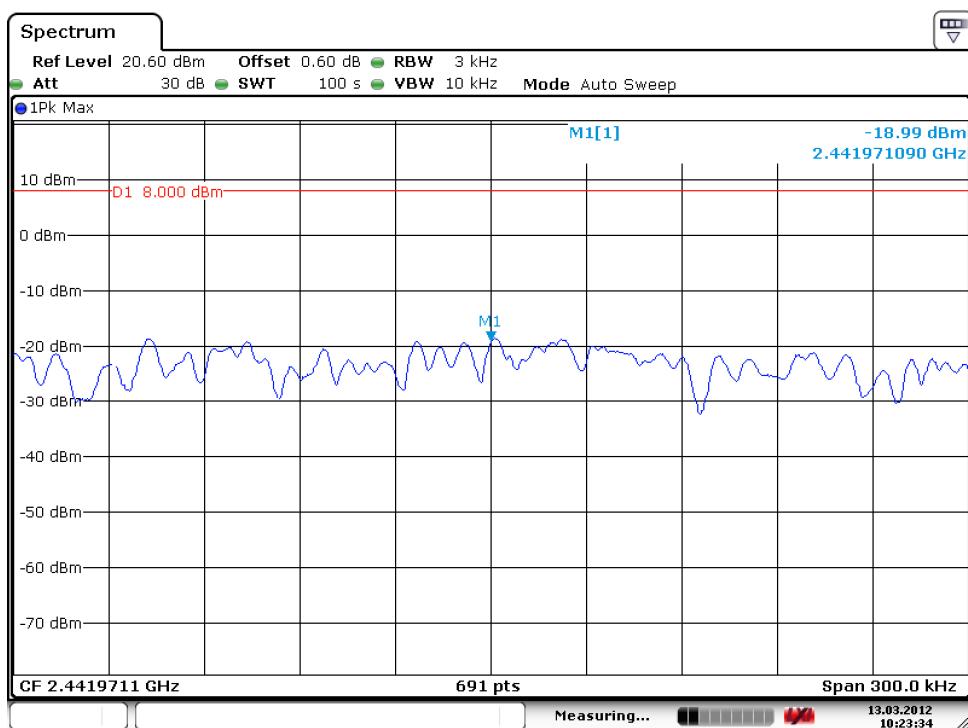
Test Plot of Power Density

Low Channel

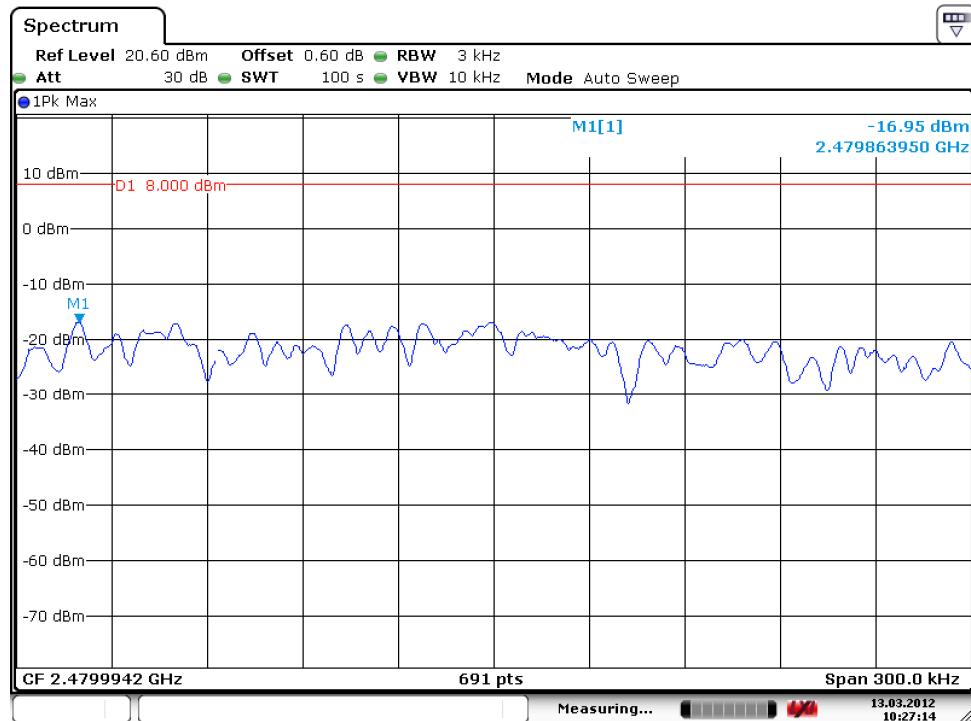


Date: 13.MAR.2012 10:20:51

Middle Channel



Date: 13.MAR.2012 10:23:34

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Page 22 of 30**High Channel**

5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2012-03-13
Test standard	:	FCC part 15.247(d)
Basic standard	:	KDB 558074 of March 23, 2005
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22°C
Relative humidity	:	52%
Atmospheric pressure	:	102 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

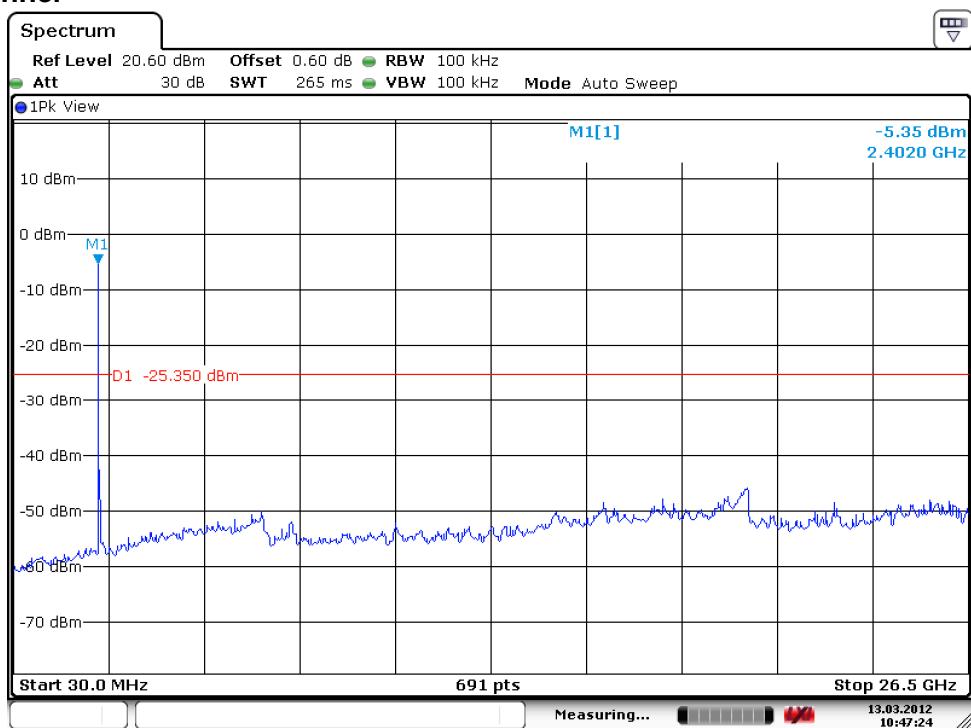
Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

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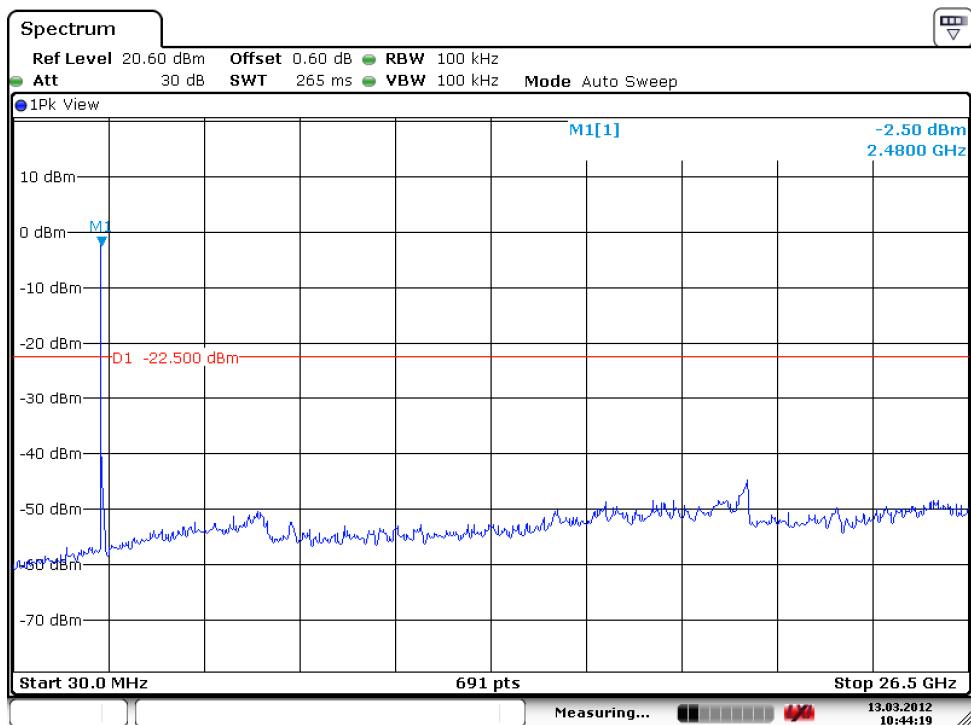
Test Plot of 100kHz Conducted Emissions

Low Channel



Date: 13.MAR.2012 10:47:24

High Channel

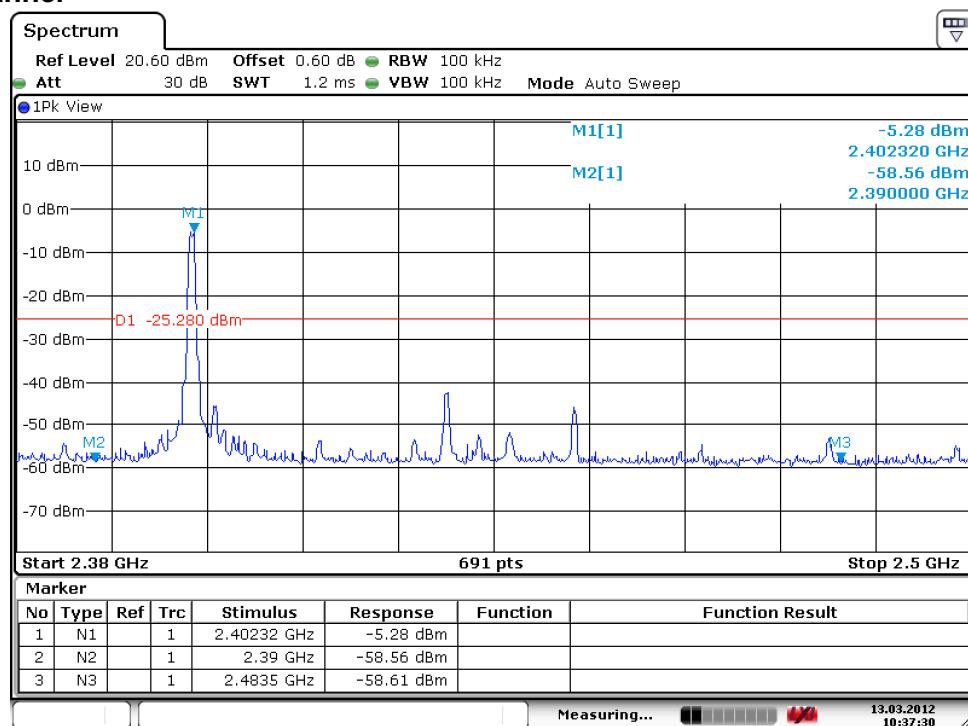


Date: 13.MAR.2012 10:44:20

Prüfbericht - Nr.: 10036443 001
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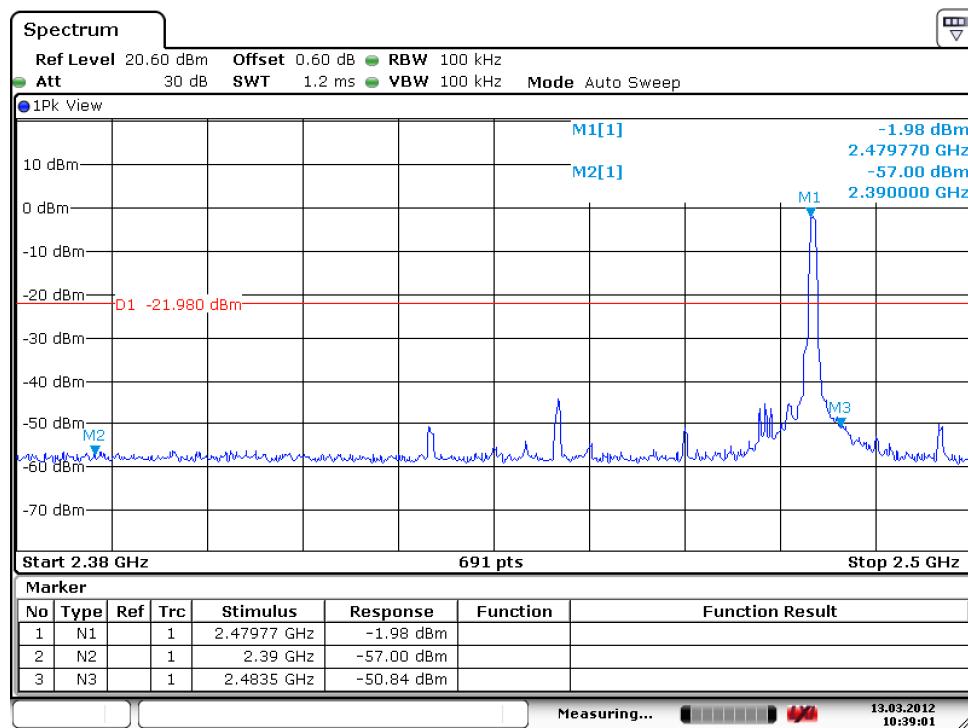
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Test Plot of 100kHz Bandwidth of Frequency Band Edge
Low Channel



Date: 13.MAR.2012 10:37:31

High Channel



Date: 13.MAR.2012 10:39:02

5.1.6 Spurious Emission

RESULT:**Passed**

Date of testing	:	2012-03-13
Test standard	:	FCC part 15.247(d), FCC 15.205, FCC 15.209
Basic standard	:	ANSI C63.10: 2009
Limits	:	Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a), must comply with the radiated emission limits specified in FCC 15.209(a). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a).
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C
Ambient temperature	:	24°C
Relative humidity	:	56%
Atmospheric pressure	:	102 kPa

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to Appendix 2. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The X Axis orientation is the worst-case and recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Passed

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is <60/f(GHz)mW, i.e. 1.0568 mW<25(=60/2.4)mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

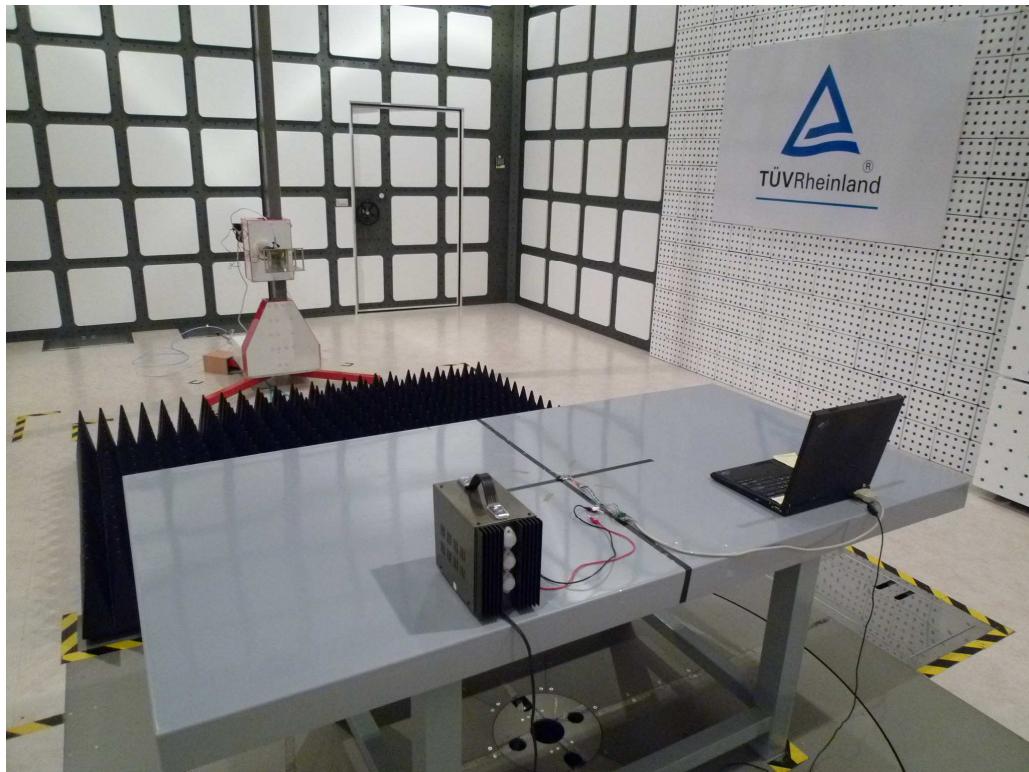
Photograph 1: Set-up for Spurious Emissions (Front View)



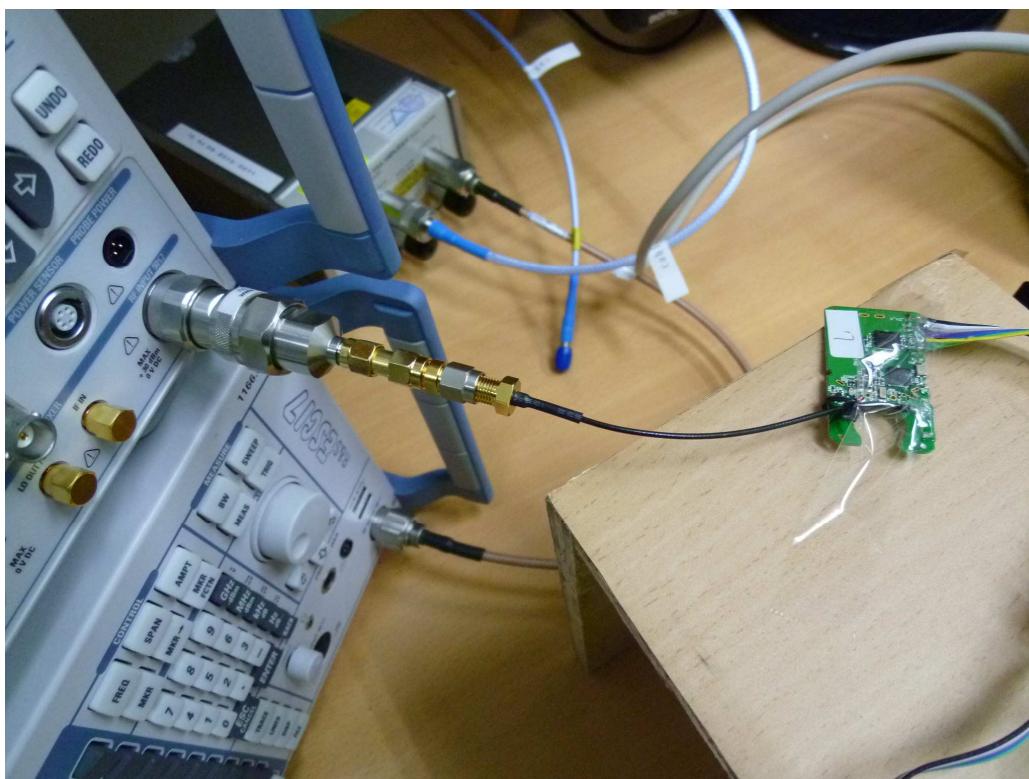
Photograph 2: Set-up for Spurious Emissions (Back View 1)



Photograph 3: Set-up for Spurious Emissions (Back View 2)



Photograph 4: Set-up for Conducted testing



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Appendix 1: IUT Photos

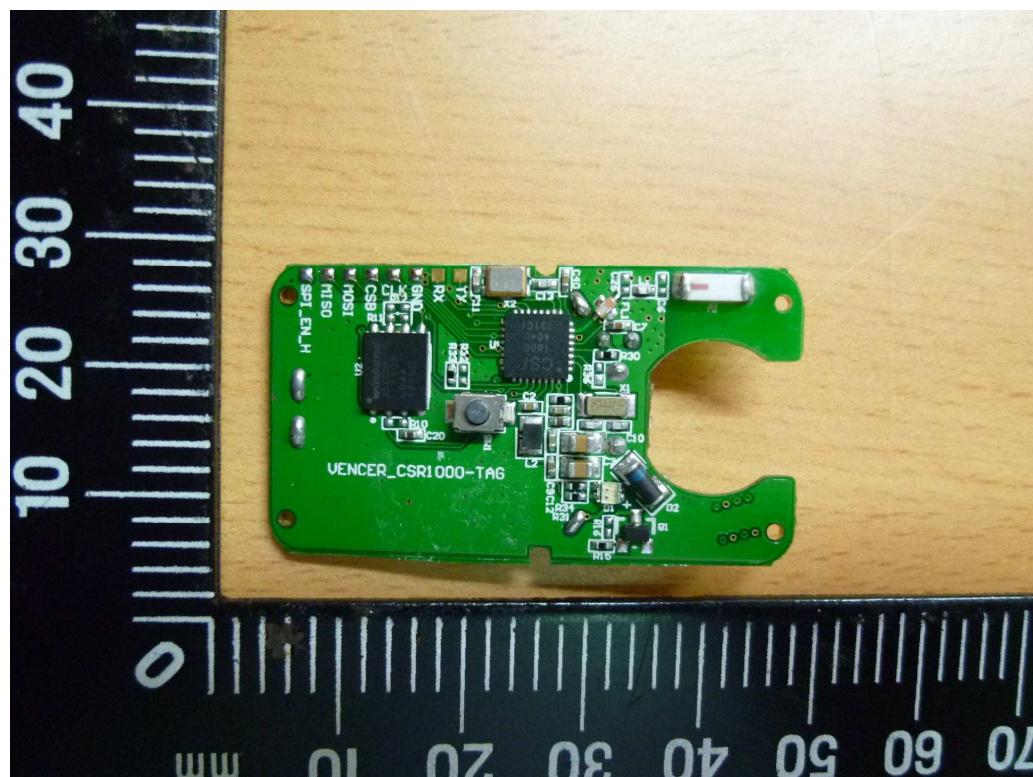
(File: 10036443Appendix1)

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Product: Bluetooth V4.0 Proximity TagType Designation: VK-1001

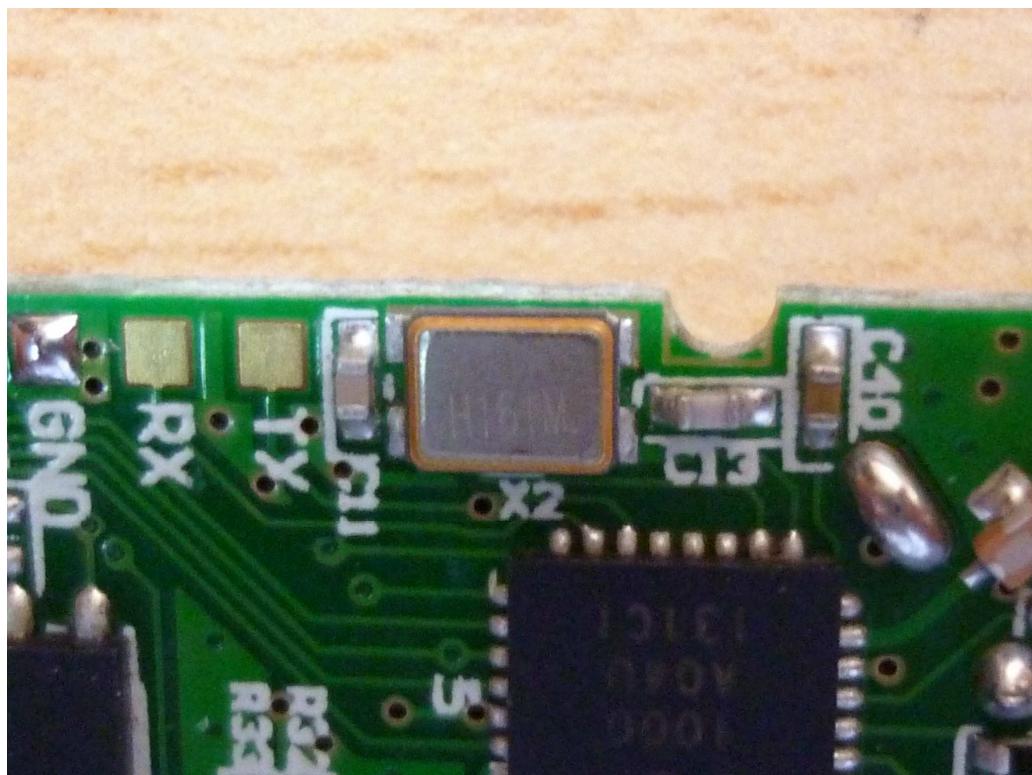
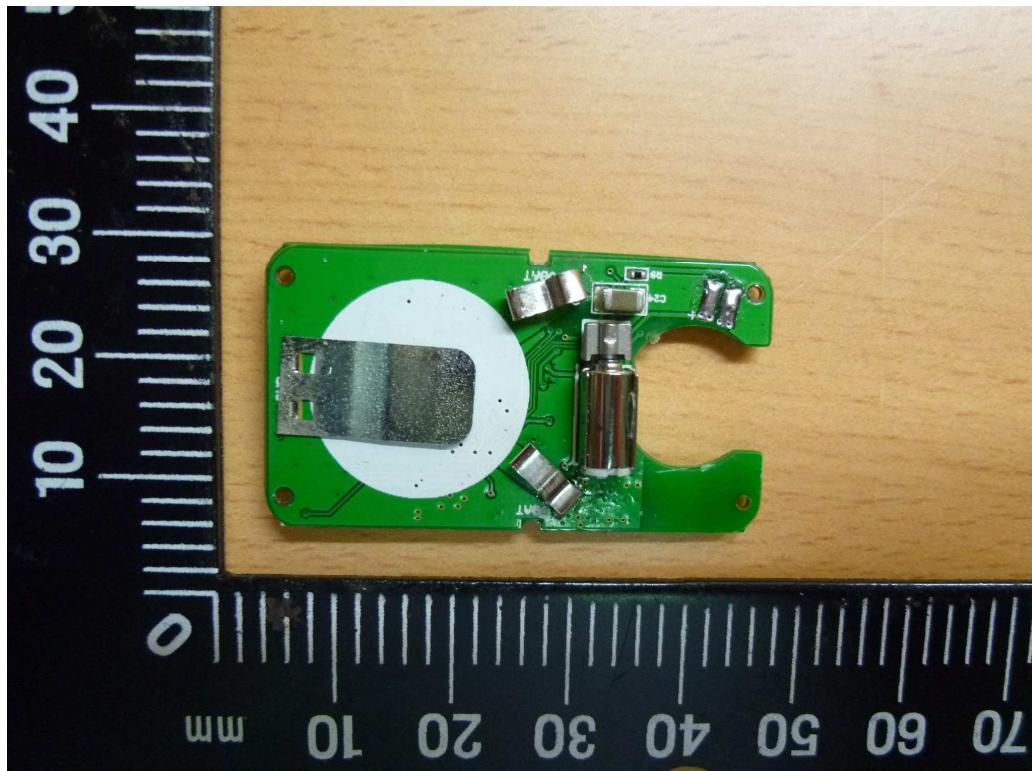
Product: Bluetooth V4.0 Proximity Tag

Type Designation: VK-1001

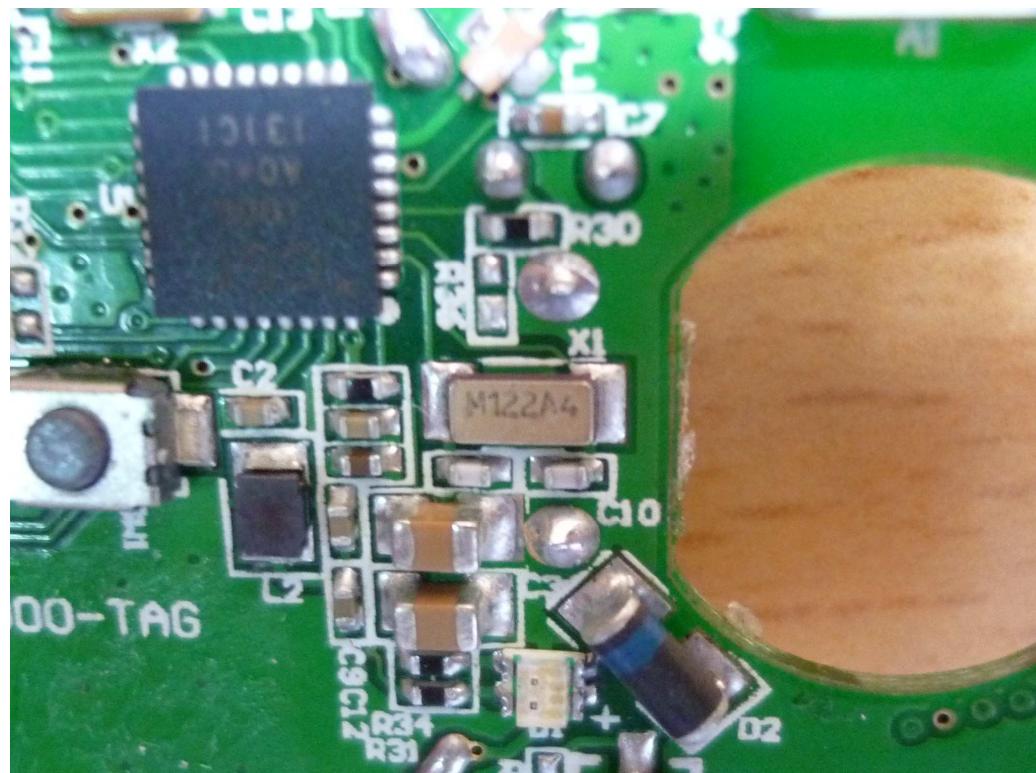


Product: Bluetooth V4.0 Proximity Tag

Type Designation: VK-1001



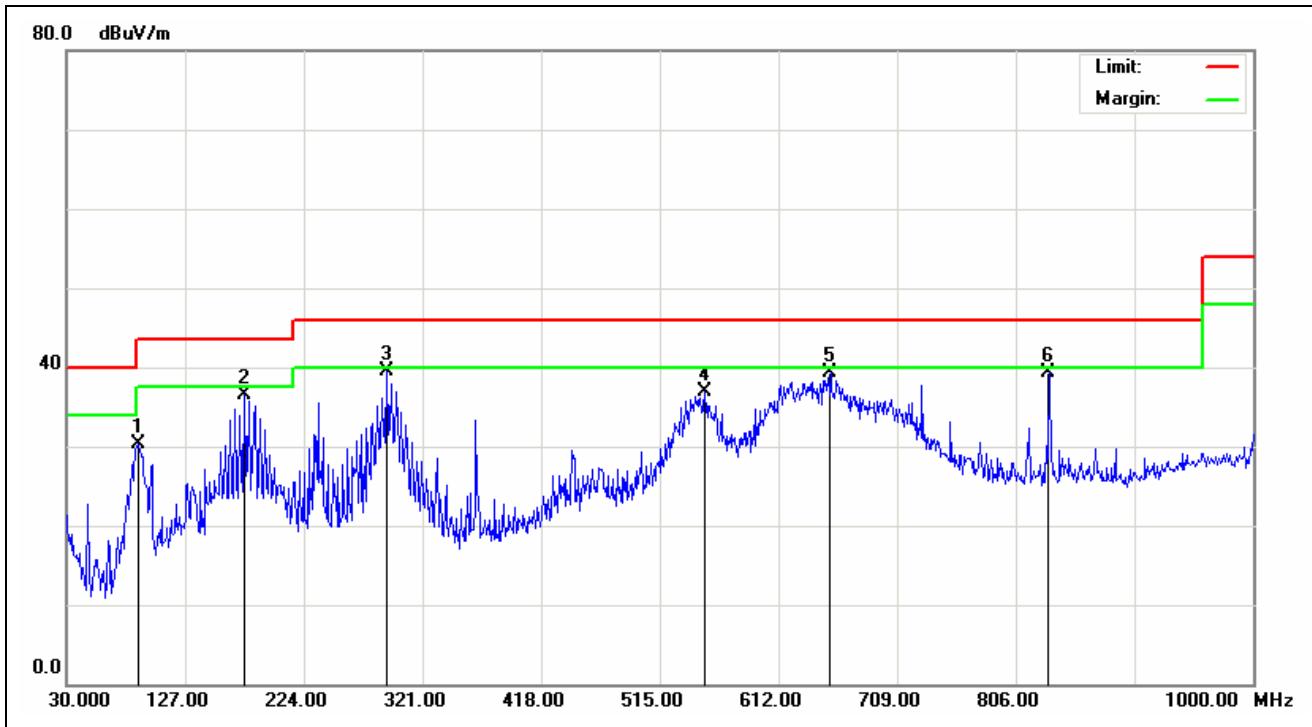
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Product: Bluetooth V4.0 Proximity TagType Designation: VK-1001

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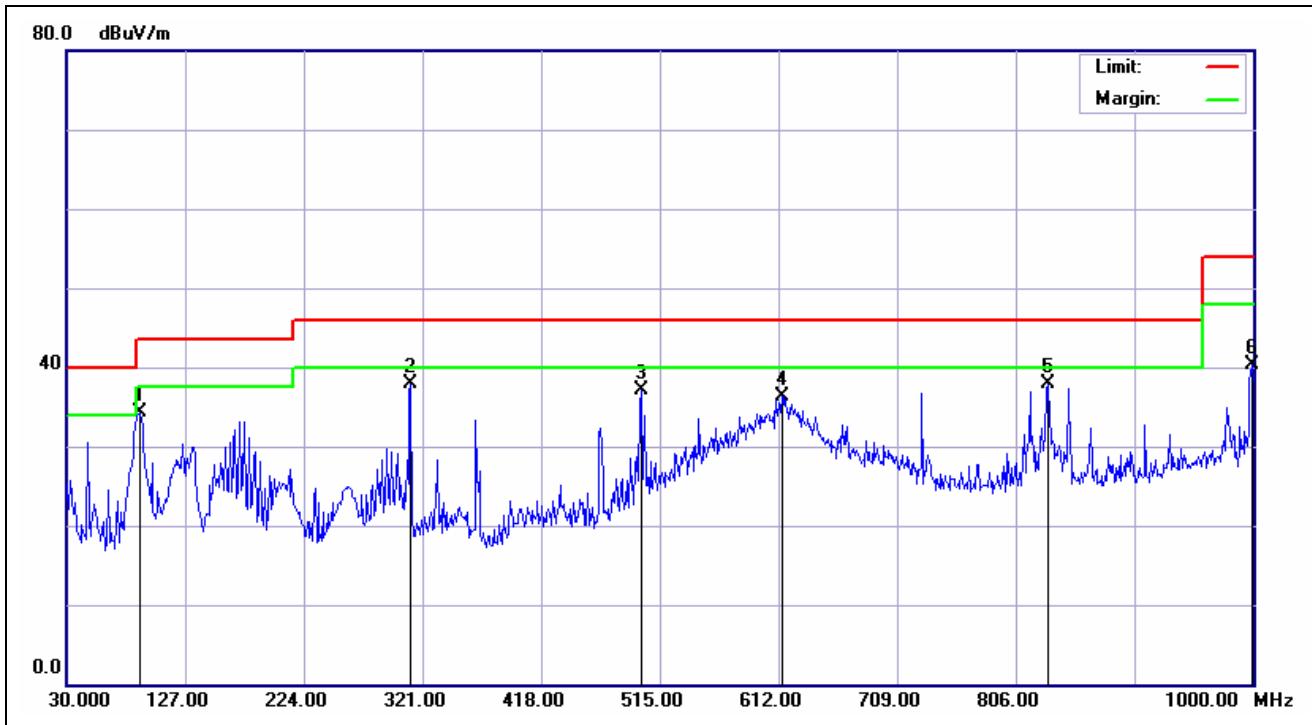
Appendix 2: Test Result of Radiated Emissions and
Radiated Band Edge

(File: 10036443Appendix2)



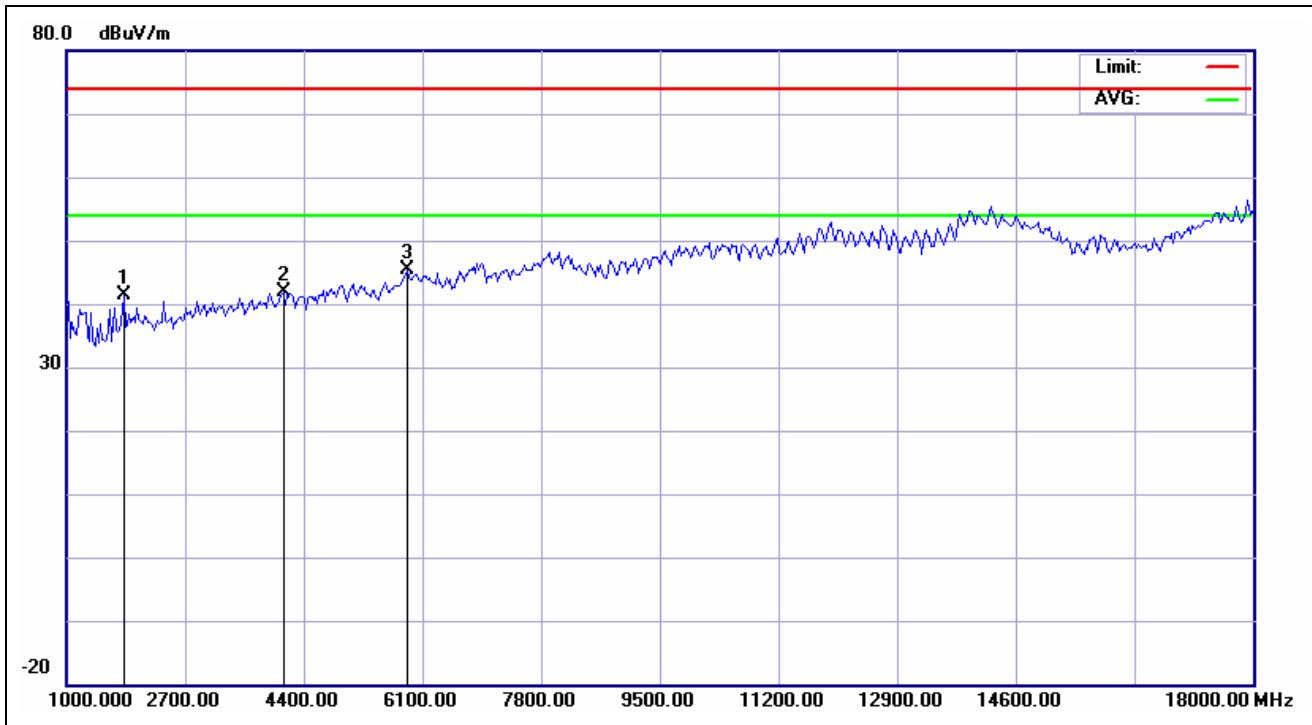
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 AM 11:45:27
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	88.2000	-17.31	47.64	30.33	43.50	-13.17	QP	200	240	
2	175.5000	-15.86	52.33	36.47	43.50	-7.03	QP	200	267	
3	291.8999	-11.57	51.02	39.45	46.00	-6.55	QP	100	263	
4	551.8600	-5.89	42.71	36.82	46.00	-9.18	QP	200	0	
5	654.6798	-5.24	44.55	39.31	46.00	-6.69	QP	100	203	
6	833.1598	-2.41	41.80	39.39	46.00	-6.61	QP	100	293	



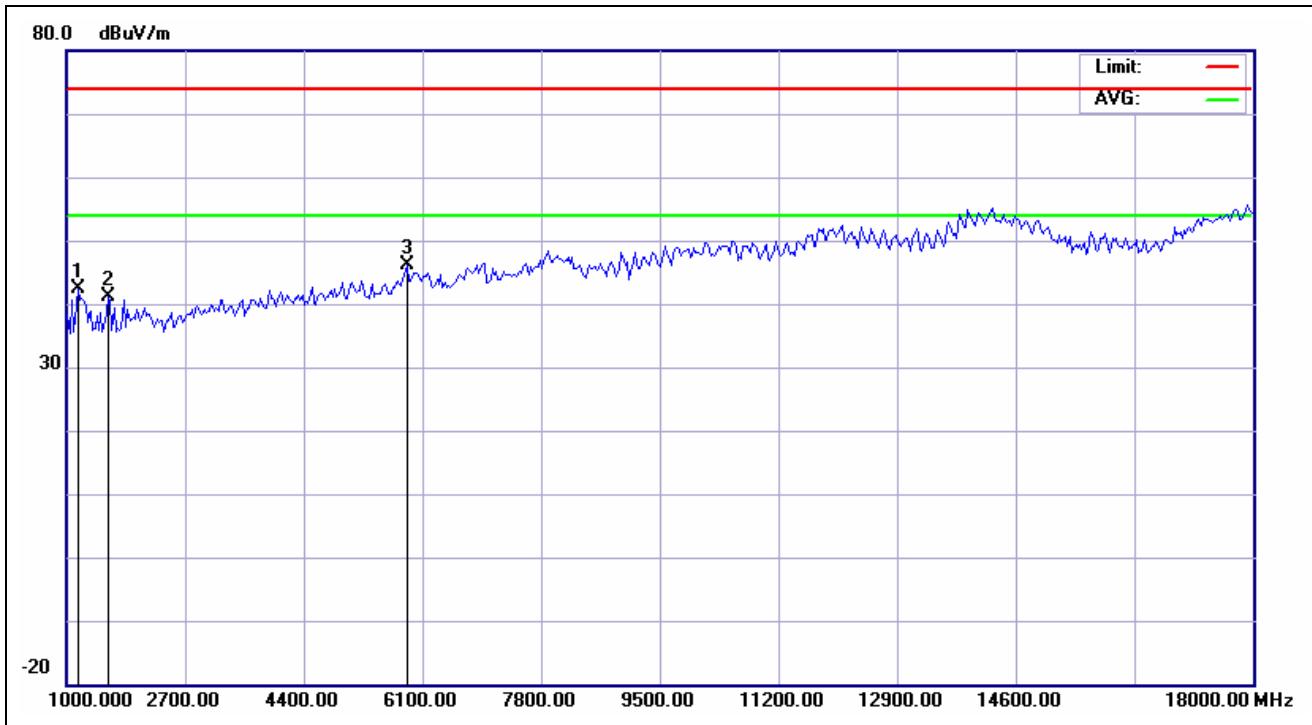
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 AM 11:50:25
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	90.1400	-17.04	51.29	34.25	43.50	-9.25	QP	100	324	
2	311.3000	-11.04	49.01	37.97	46.00	-8.03	QP	100	244	
3	499.4800	-7.61	44.77	37.16	46.00	-8.84	QP	100	194	
4	614.9099	-5.69	41.96	36.27	46.00	-9.73	QP	100	0	
5	832.1900	-2.44	40.37	37.93	46.00	-8.07	QP	200	33	
6	999.0299	-0.14	40.52	40.38	54.00	-13.62	QP	100	187	



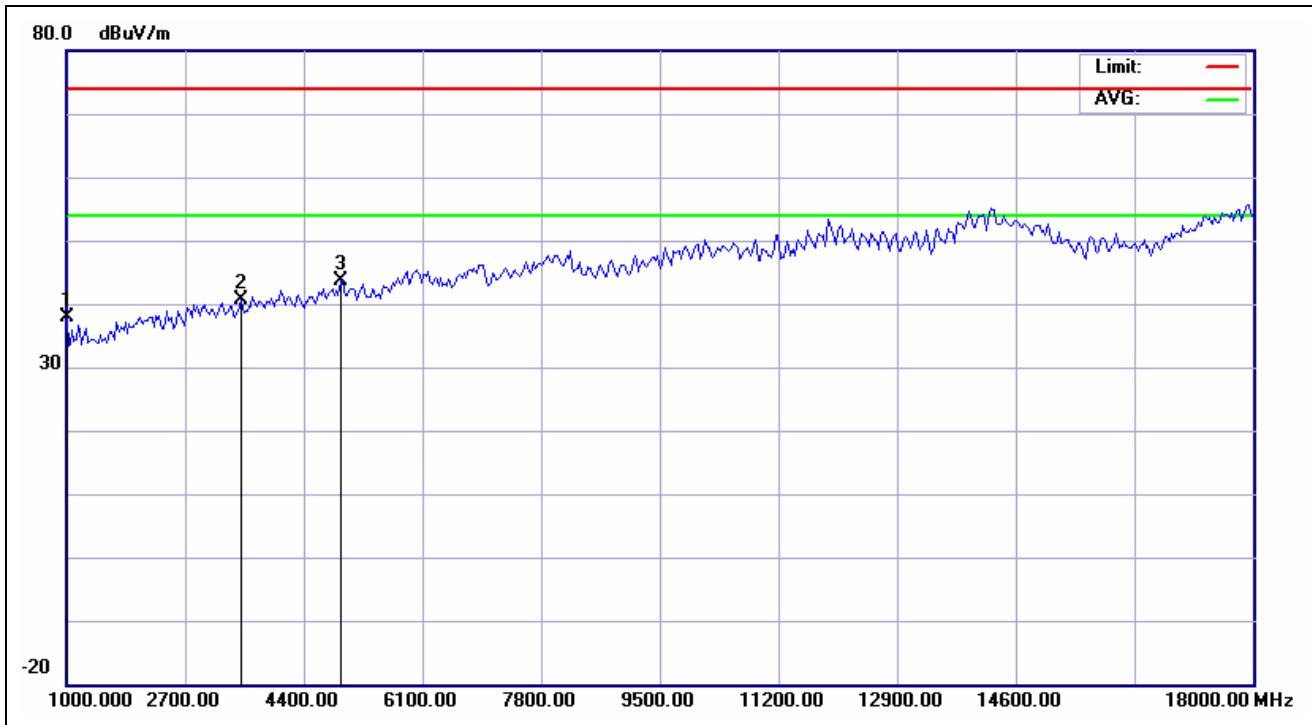
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:09:48
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1817.308	6.09	35.17	41.26	74.00	-32.74	peak			
2	4105.769	11.54	30.30	41.84	74.00	-32.16	peak			
3	5876.603	16.51	28.87	45.38	74.00	-28.62	peak			



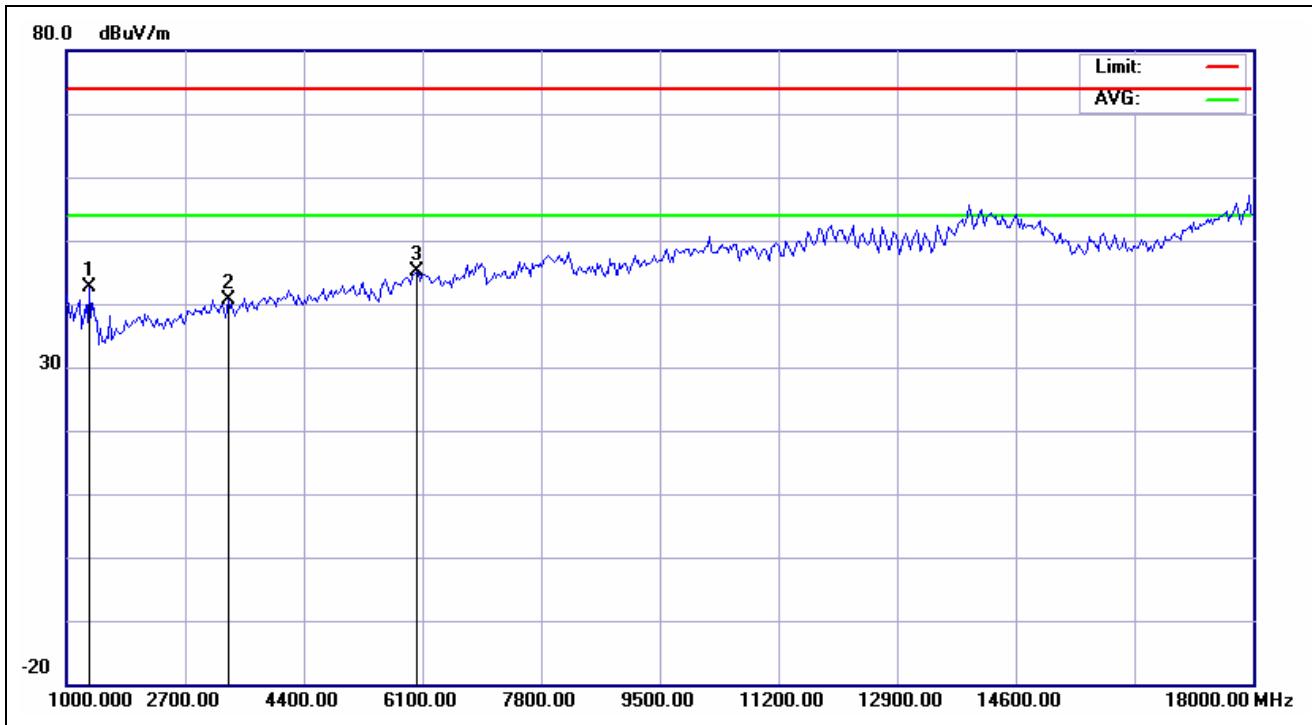
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:12:15
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1163.462	3.50	38.97	42.47	74.00	-31.53	peak			
2	1599.359	4.54	36.63	41.17	74.00	-32.83	peak			
3	5876.603	16.51	29.69	46.20	74.00	-27.80	peak			



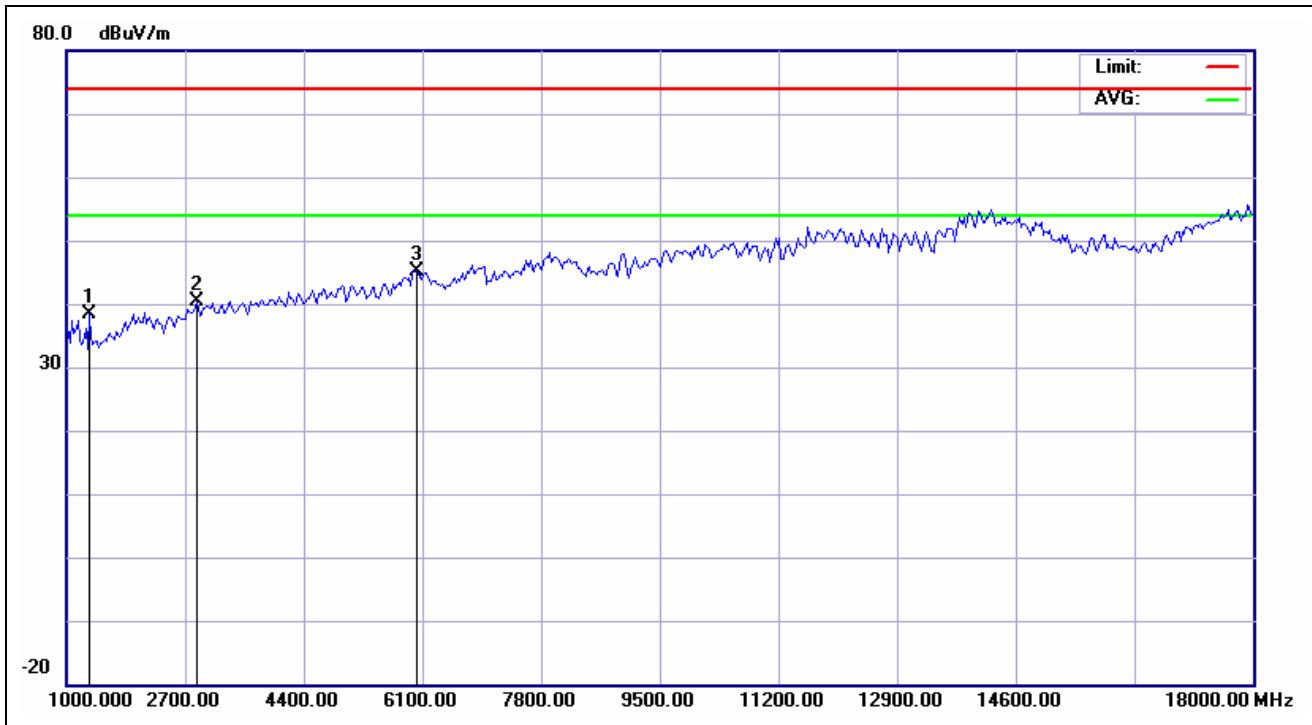
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:14:30
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2442		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1000.0000	3.35	34.55	37.90	74.00	-36.10	peak			
2	3506.410	10.32	30.39	40.71	74.00	-33.29	peak			
3	4923.077	13.51	30.08	43.59	74.00	-30.41	peak			



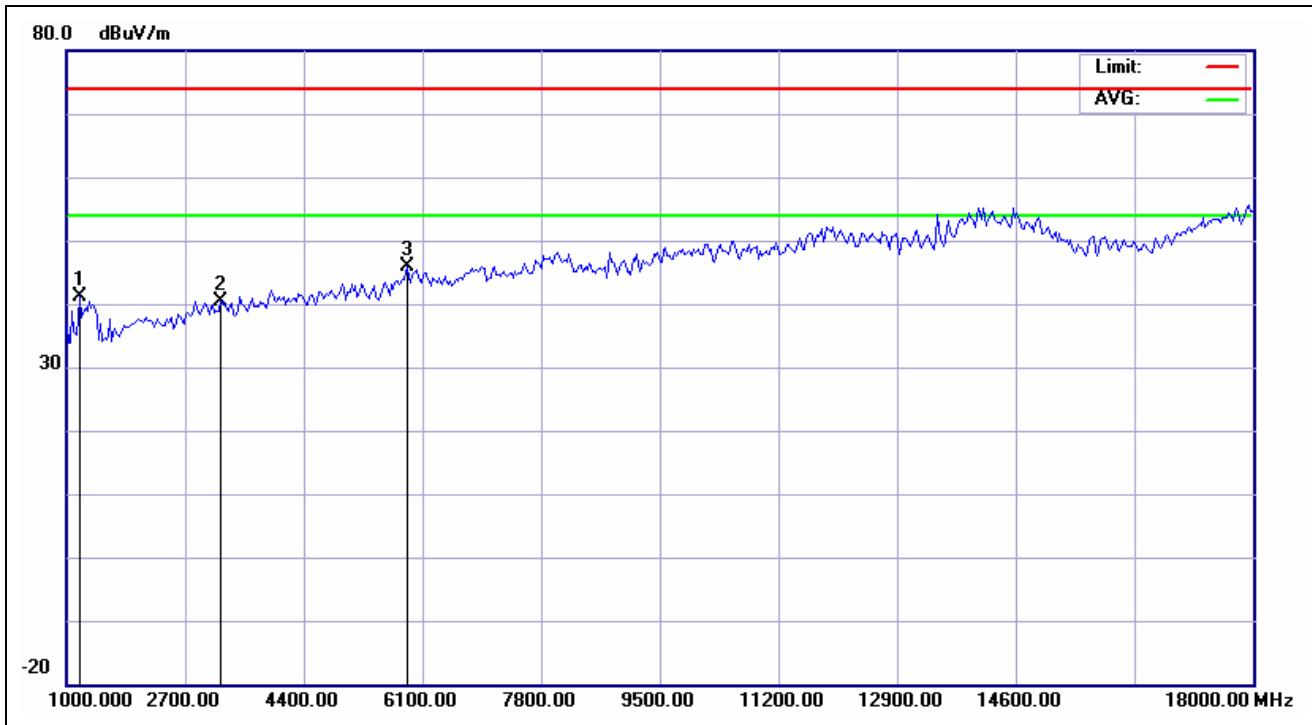
Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:17:42
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2442		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1326.923	3.66	38.98	42.64	74.00	-31.36	peak			
2	3315.705	10.17	30.54	40.71	74.00	-33.29	peak			
3	6012.820	17.18	27.94	45.12	74.00	-28.88	peak			



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:20:17
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1326.923	3.66	34.68	38.34	74.00	-35.66	peak			
2	2879.808	9.52	30.83	40.35	74.00	-33.65	peak			
3	6012.821	17.18	27.84	45.02	74.00	-28.98	peak			

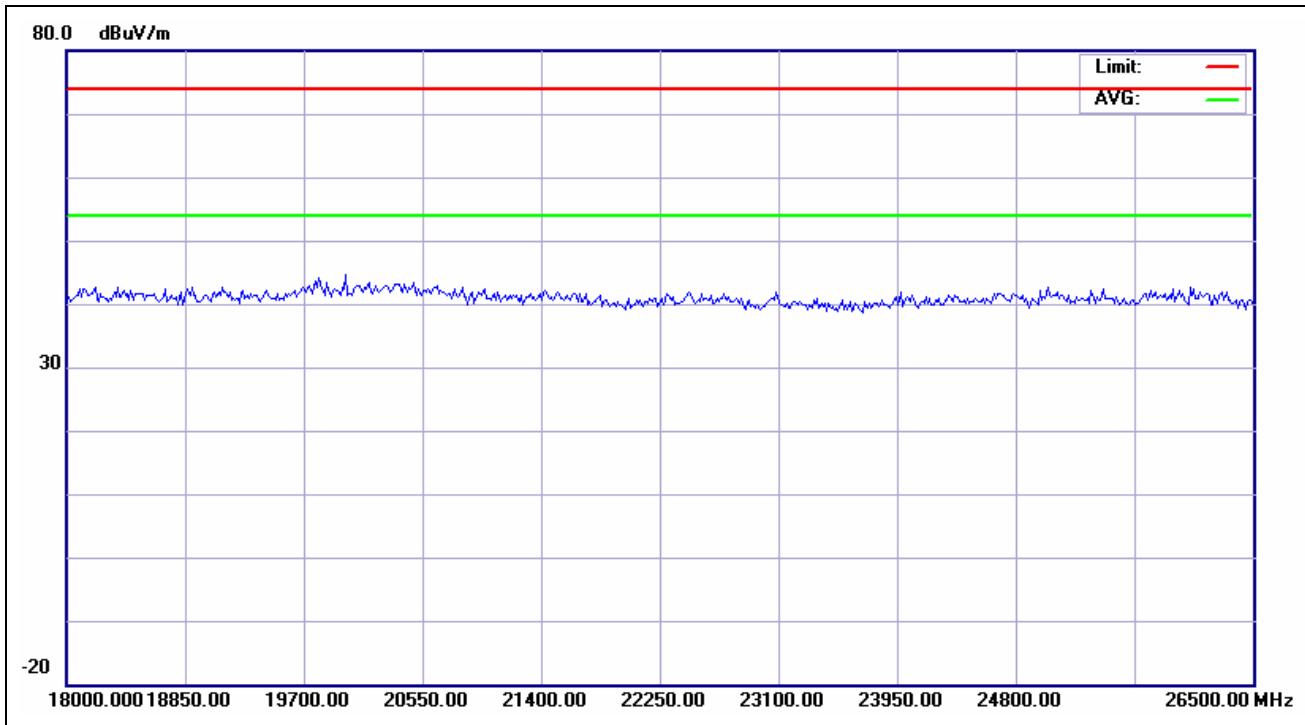


Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 02:21:47
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1190.705	3.53	37.61	41.14	74.00	-32.86	peak			
2	3206.731	10.08	30.20	40.28	74.00	-33.72	peak			
3	5876.603	16.51	29.39	45.90	74.00	-28.10	peak			



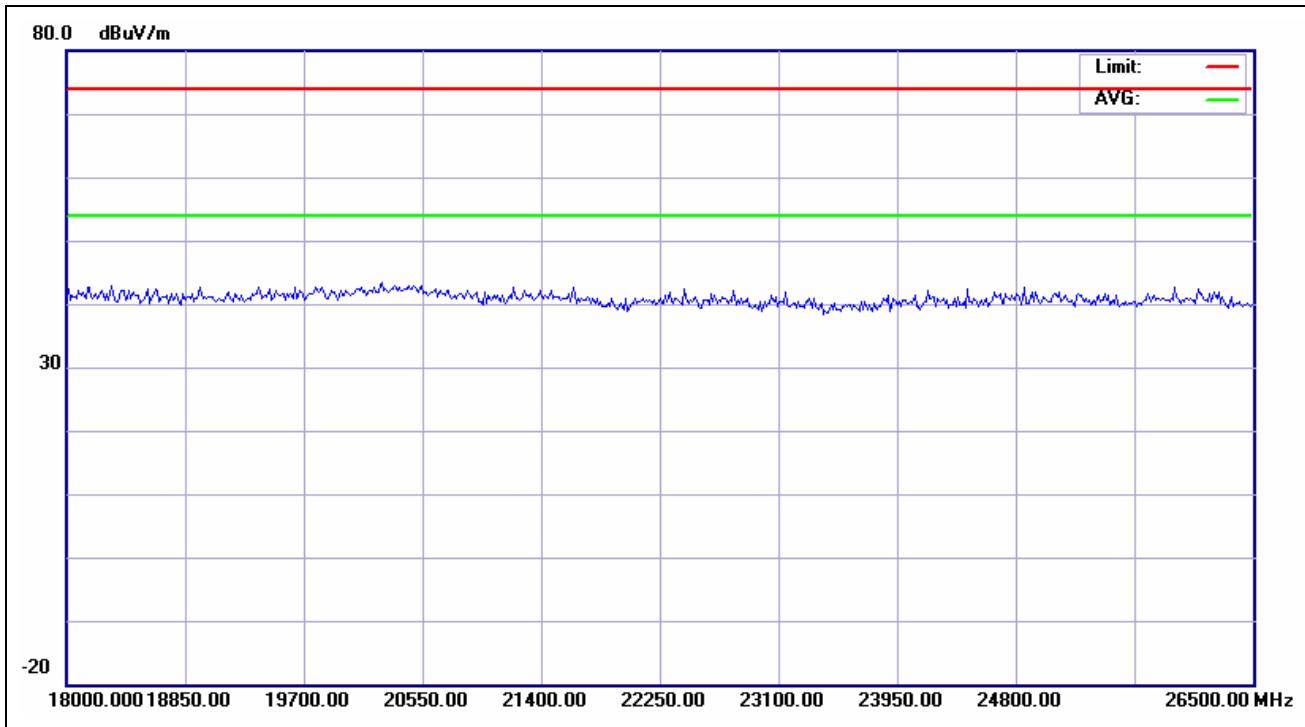
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:03:32
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			



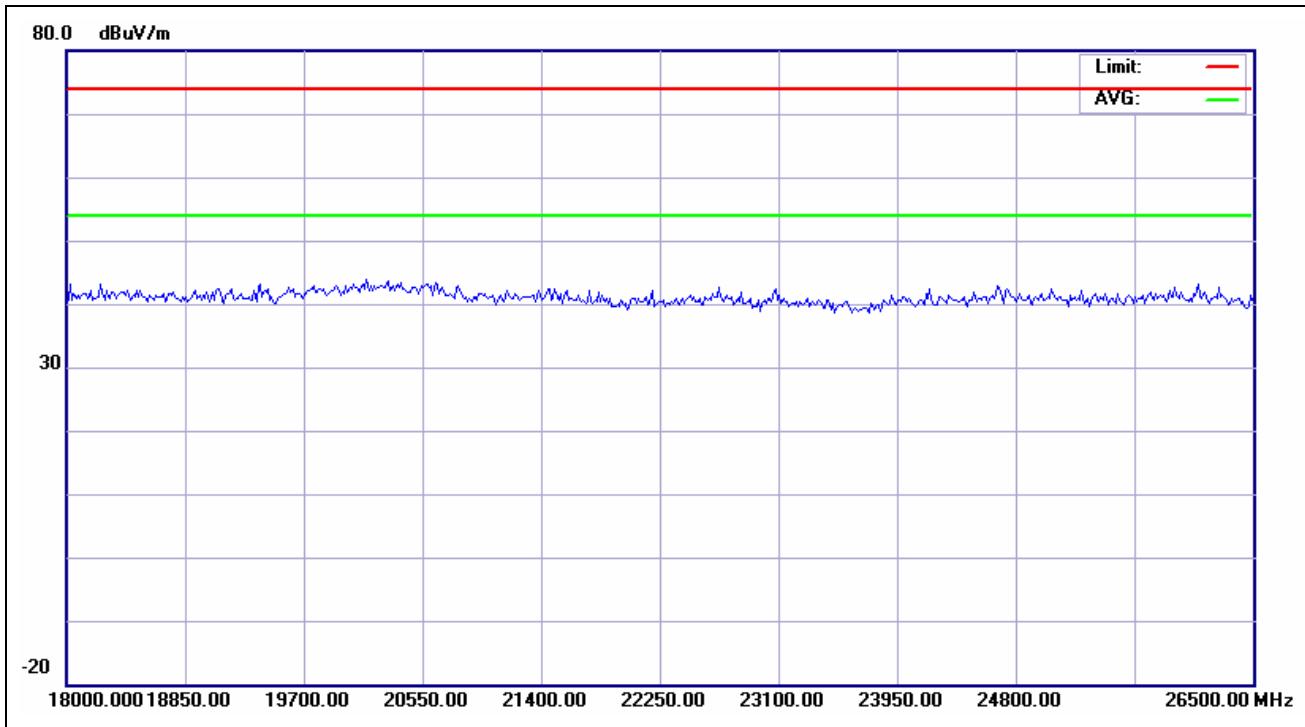
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:04:10
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2402		
Remark:			



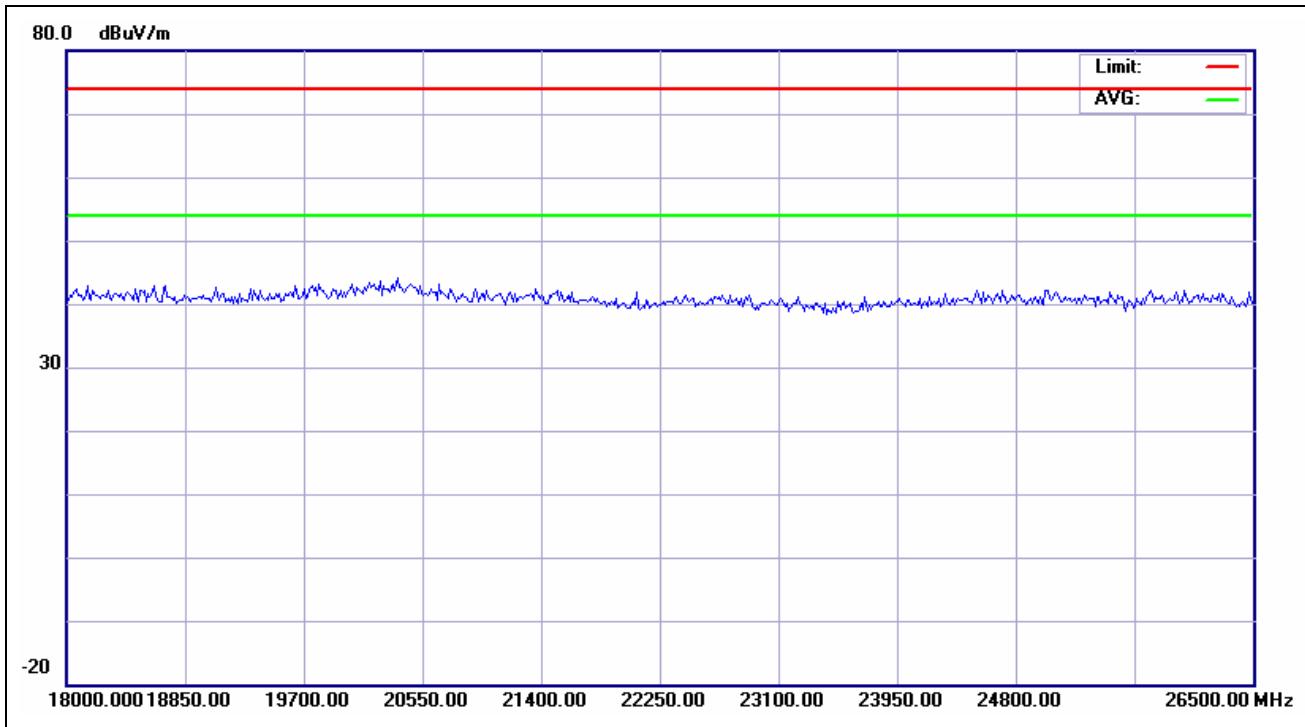
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:04:42
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2442		
Remark:			



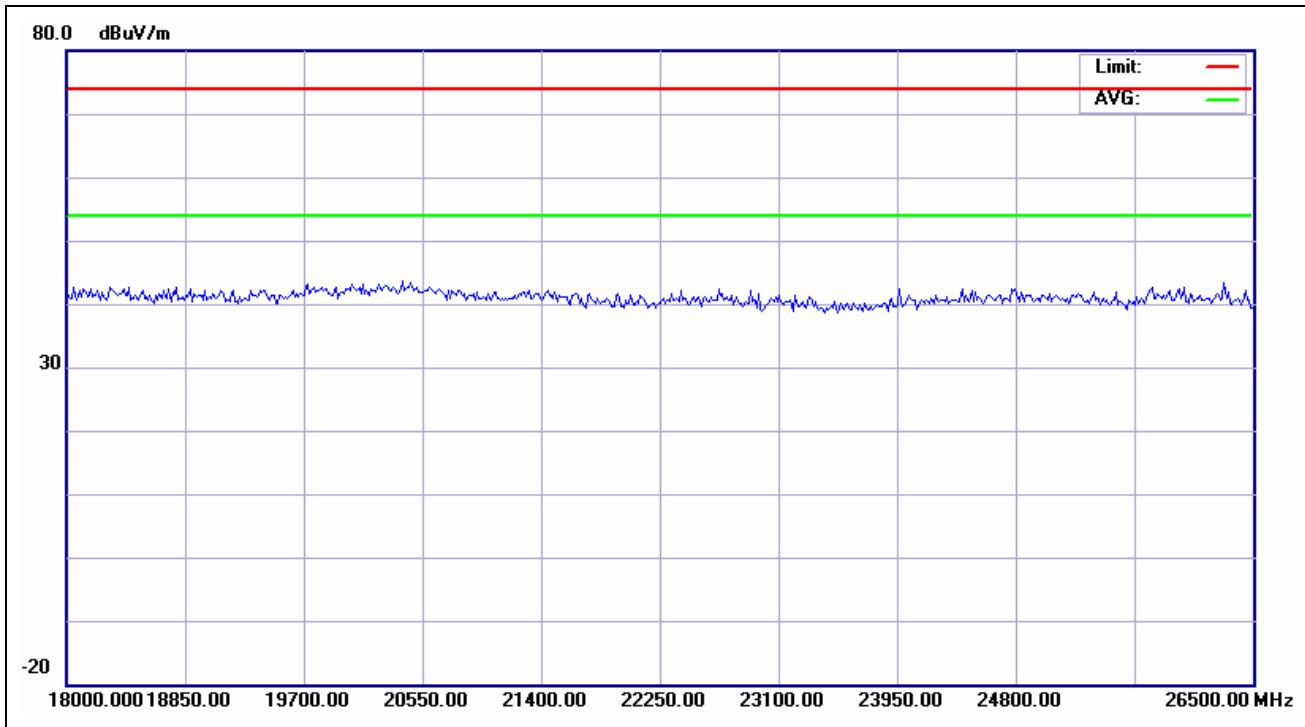
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:05:03
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2442		
Remark:			



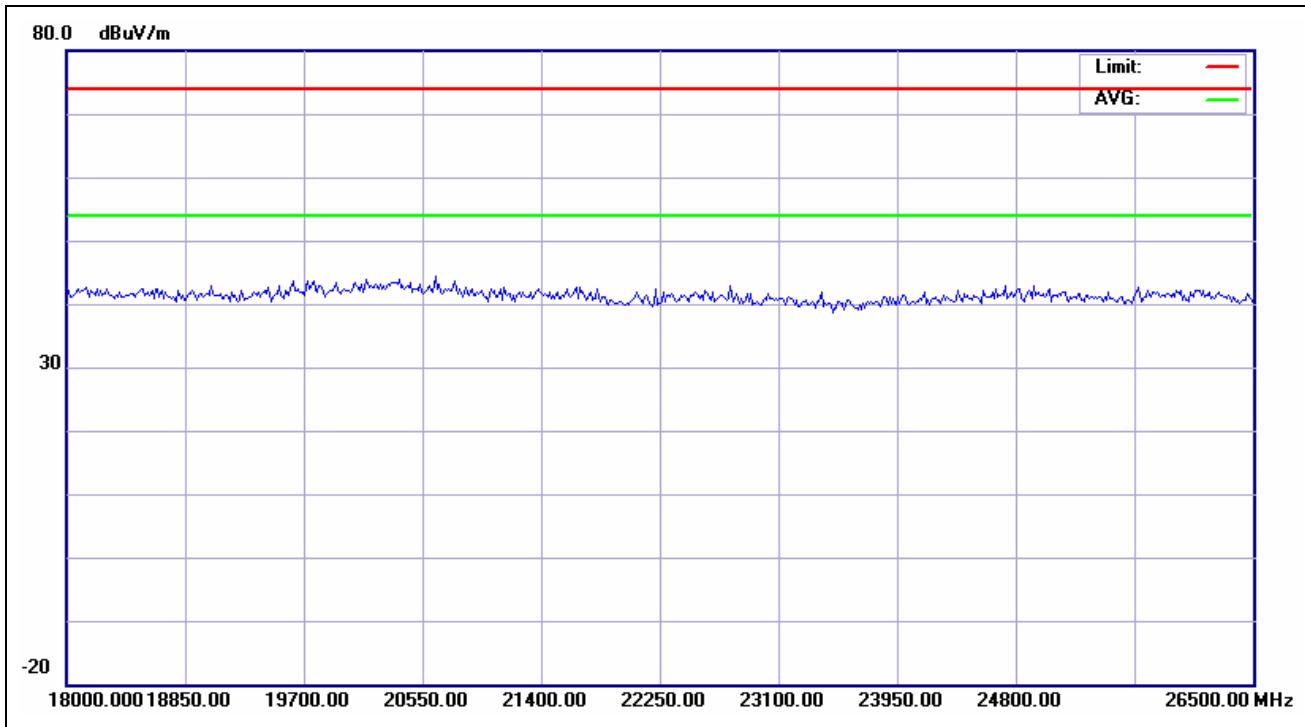
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:05:41
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2480		
Remark:			



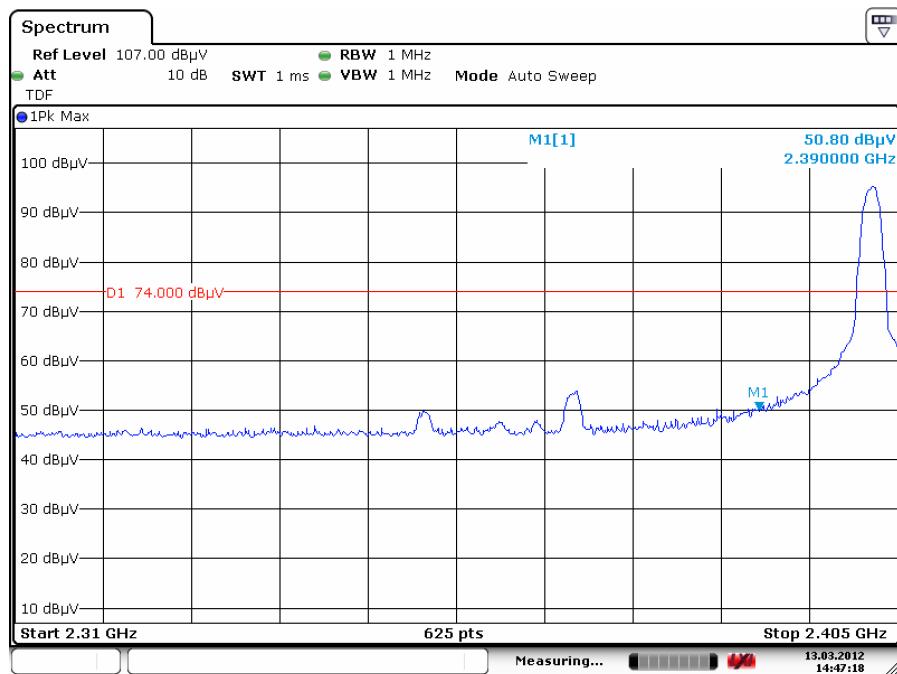
TUV Taiwan
11F, No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	113153865	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2012/3/13 PM 03:06:07
Applicant:	Vencer	Test Rating:	DC 3.3V
Product:	Bluetooth V4.0 Proximity Tag	Temp.(°C)/Hum.(%):	20(°C)/67%
Model No.:	VK-1001	Test Engineer:	Hugo Chang
Test Mode:	BT 2480		
Remark:			

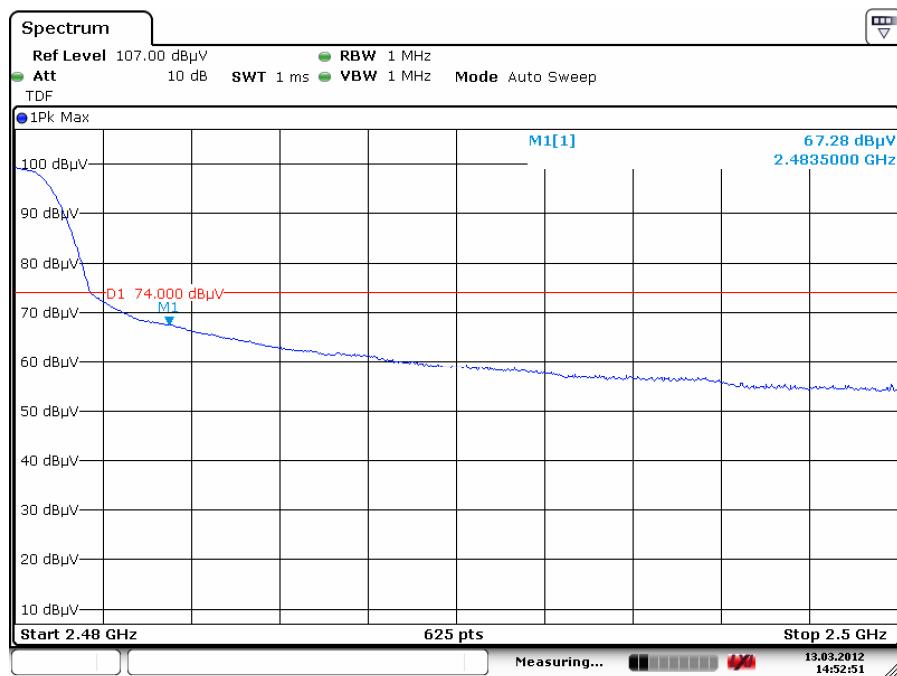
Radiated Bandedge (GFSK)

Low Channel (H)



Date: 13.MAR.2012 14:47:18

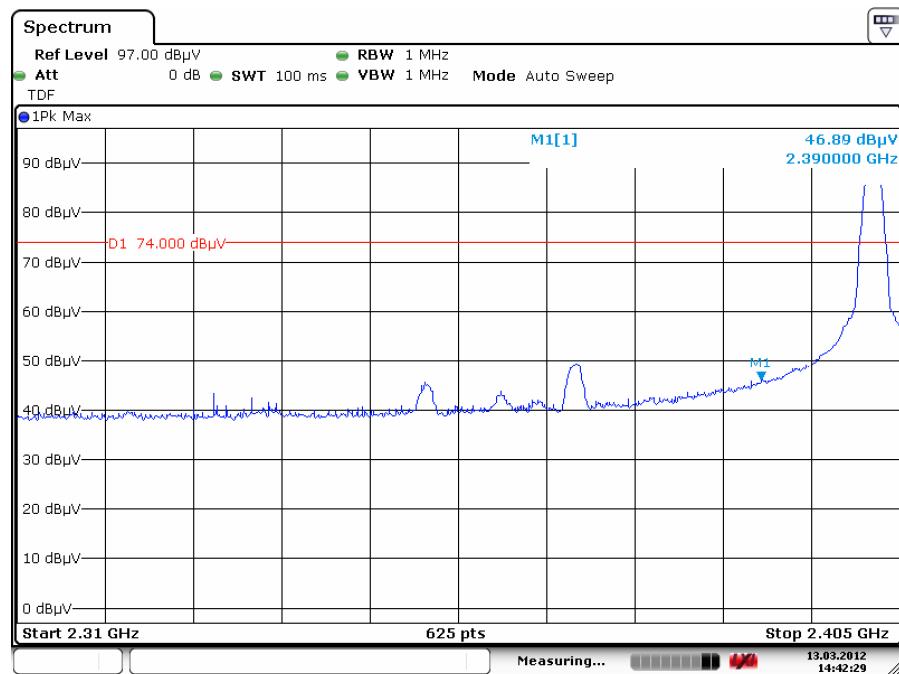
High Channel (H)



Date: 13.MAR.2012 14:52:51

Radiated Bandedge (GFSK)

Low Channel (V)



High Channel (V)

