



FCC 47 CFR PART 15 SUBPART C ANSI C63.4: 2003

TEST REPORT

For

Bluetooth Goggle

Model: W301

Data Applies To: G31

Brand Name 1 (W301): BonSayOn

Brand Name 2 (G31): buhel

Issued to

NeoVictory Technology Co., Ltd.

2F, No.562, Dongning Rd., East Dist., Tainan City 70165, Taiwan(R.O.C.)

Issued by

Compliance Certification Services Inc.

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Issued Date: December 28, 2011



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**REVISION HISTORY**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 02, 2011	Initial Issue	ALL	Sunny Chang
01	December 07, 2011	Add and update test data	Page 1; 2; 7; 14-17; 22-24; 41-49	Sunny Chang
02	December 20, 2011	Update test data	Page 41-42	Sunny Chang
03	December 28, 2011	Update Adapter brand name Update test data Add test data	Page1; 2; 5; 29-40; 43	Sunny Chang



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1. TEST RESULT CERTIFICATION

Product:	Bluetooth Goggle
Model:	W301
Data Applies To:	G31
Brand Name1:	BonSayOn
Brand Name2:	buhel
Applicant:	NeoVictory Technology Co., Ltd. 2F, No.562, Dongning Rd., East Dist., Tainan City 70165, Taiwan(R.O.C.)
Manufacturer:	NeoVictory Technology Co., Ltd. 2F, No.562, Dongning Rd., East Dist., Tainan City 70165, Taiwan(R.O.C.)
Tested:	October 18, 2011 ~ December 27, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C ANSI C63.4 : 2003	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements emission limits of FCC Rules Part 15.107, 15.109, 15.207, 15.209 and 15.249. The test results of this report relate only to the tested sample identified in this report.

Approved by:

Jeter Wu

Assistant Manager

Reviewed by:

Eric Huang

Assistant Section Manager



2. EUT DESCRIPTION

Product	Bluetooth Goggle
Model Number	W301
Data Applies To	G31
Brand Name 1	BonSayOn
Brand Name 2	buhel
Received Date	October 05, 2011
Frequency Range	2402 ~ 2480 MHz
Data Rate	GFSK (1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
Number of Channels	79 Channel
Type of Modulation	Frequency Hopping Spread Spectrum
Power Supply	Powered from Adapter , 5Vdc
Antenna Type	Chip Antenna Gain: 1.3 dBi
Temperature Range	-15°C ~ +60°C

Remark:

1. Client consigns only one model sample to test (Model Number: **W301**). Therefore, the testing Lab. just guarantees the unit, which has been tested.
2. This submittal(s) (test report) is intended for FCC ID: **X5HW301** filing to comply with Section 15.107 & 15.109 (FCC Part 15, Subpart B) and Section 15.207, 15.209, 15.249.
3. The listed models(G31)are all the same of the original model(W301), design, except for different (models; brand) name and is just for the marketing purpose.

Power Adapter :

No.	Manufacturer	Model No.	Power Input	Power Output
1	NeoVictory	FRA05-S05-1	100-240V, 50/60Hz, 0.3A	5V, 1A
2	TEkA	TEKA006-0501000 UK	100-240V; 50/60Hz; 0.2A	5V, 1A



3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.249.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.107 and 15.109 under the FCC Rules Part 15 Subpart B and Section 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT(**Model: W301**) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

Note :

- 1)The field strength of spurious emission was measured in the following position:

EUT have three test modes(X, Y, Z axis). The worst emission was found in X axis and the worst case was recorded.

- 2) EUT has supported three data rates (GFSK (1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps) which have been investigated during the test, and found the GFSK (1Mbps) & 8-DPSK(3Mbps) as the worst case recorded.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Open Area Test Site # 6				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	NOV. 17, 2012
BI-LOG Antenna	Sunol	JB1	A070506-2	OCT. 03, 2012
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2012
Pre-Amplifier	HP	8447F	2944A03817	NOV. 23, 2012
EMI Receiver	R&S	ESVS10	833206/012	MAY 10, 2012
RF Cable	SUHNER	SUCOFLEX104P EA	20520/4PEA	NOV. 10, 2012
Horn Antenna	Com-Power	AH-118	071032	DEC. 27, 2011
Spectrum Analyzer	R&S	FSEK 30	835253/002	SEP. 29, 2012
Pre-Amplifier	MITEQ	AFS44-0010865 0-42-10P-44	1205908	NOV. 23, 2012
3116 Double Ridge Antenna (40G)	ETS-LINDG REN	EMCO-003	00078	NOV. 14, 2012
Turn Table	Yo Chen	001	-----	N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	CT	SC101	-----	N.C.R.
RF Swicth	E-INSTRUM ENT TELH LTD	ERS-180A	EC1204141	N.C.R
Power Meter	Anritsu	ML2487A	6K00003888	MAY 30, 2012
Power Sensor	Anritsu	MA2491A	33265	MAY 30, 2012
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 09, 2012
Signal Generator	HP	8673C	2938A00663	SEP. 12, 2012
DC Power Source	LOKO	DSP-5050	L1507009282	N.C.R

Remark: Each piece of equipment is scheduled for calibration once a year.



4.3 MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : OATS-6	$\pm 3.38\text{dB}$
Radiated Emission, 200 to 1000 MHz Test Site : OATS-6	$\pm 3.04\text{dB}$
Radiated Emission, 1 to 26.5 GHz	$\pm 2.38\text{ dB}$
Power Line Conducted Emission	$\pm 2.01\text{dB}$
Band Width	136.49kHz
Peak Output Power MU	$\pm 1.904\text{dB}$
Band Edge MU	$\pm 0.302\text{dBuV}$
Channel Separation MU	361.69Hz
Duty Cycle MU	0.064ms
Frequency Stability MU	0.223kHz

Uncertainty figures are valid to a confidence level of 95%, k=2



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.4 : 2003 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW-1037).



5.1 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Germany	TUV NORD
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

RF test

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1.	Pc	HP	d330uT	R33001	Power cable, unshd, 1.5m
2.	LCD Monitor	BenQ	FP731	R43002	VGA cable, shd, 1.8m
3.	Keyboard(USB)	DETROIS	KB-2181	T33097	Keyboard cable, shd, 1.4m
4.	Mouse(USB)	I-DRIVER	P002	R35569	Mouse cable, shd, 1.4m

No.	Signal cable description	
A	Power	Shielded, 1.8m, 1pcs.

EMI test

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1.	N/A	---	---	---	---

No.	Signal cable description	
A	Power	Unshielded, 1.0m, 1pcs.
B	Earphone	Unshielded, 0.6m, 1pcs.

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



7. FCC PART 15.249 REQUIREMENTS

7.1 BAND EDGES MEASUREMENT

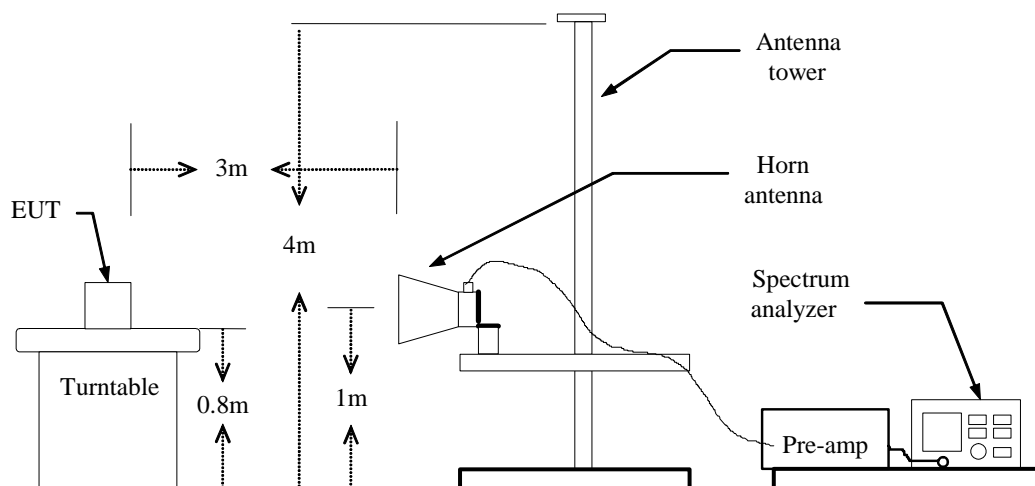
LIMIT

1. In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3-meter)	Field Strength ($\text{dB}\mu\text{V/m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
PEAK: RBW=VBW=1MHz / Sweep=100 ms
5. Repeat the procedures until all the PEAK versus POLARIZATION are measured.

TEST RESULTS

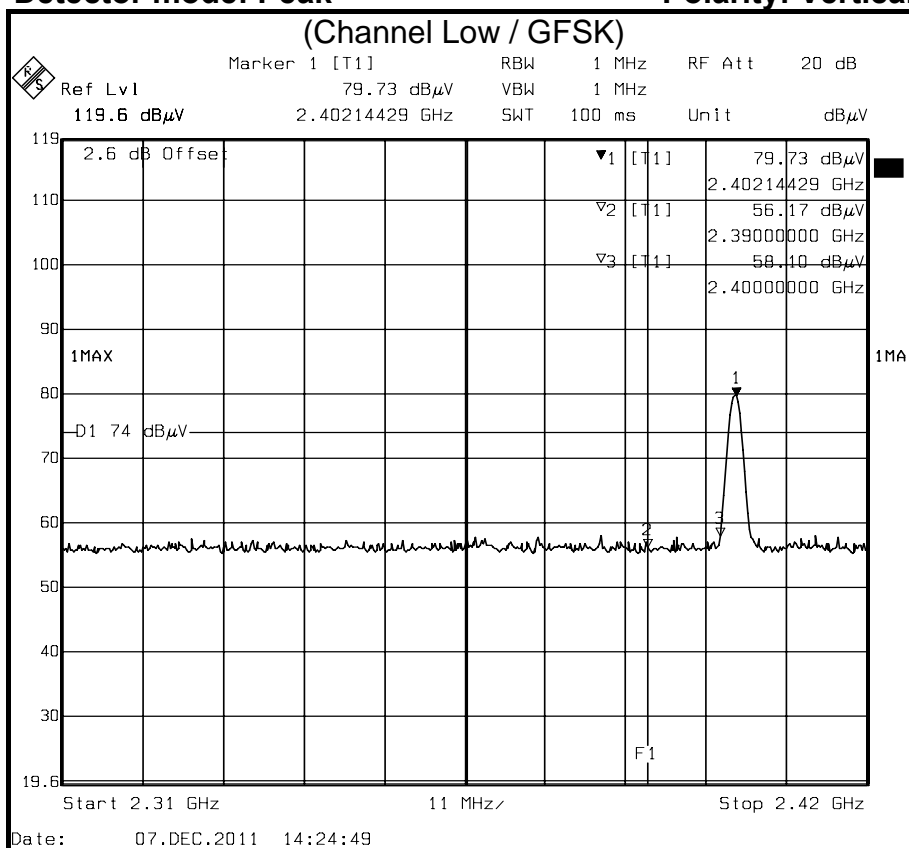
Refer to attach spectrum analyzer data chart.



Band Edges

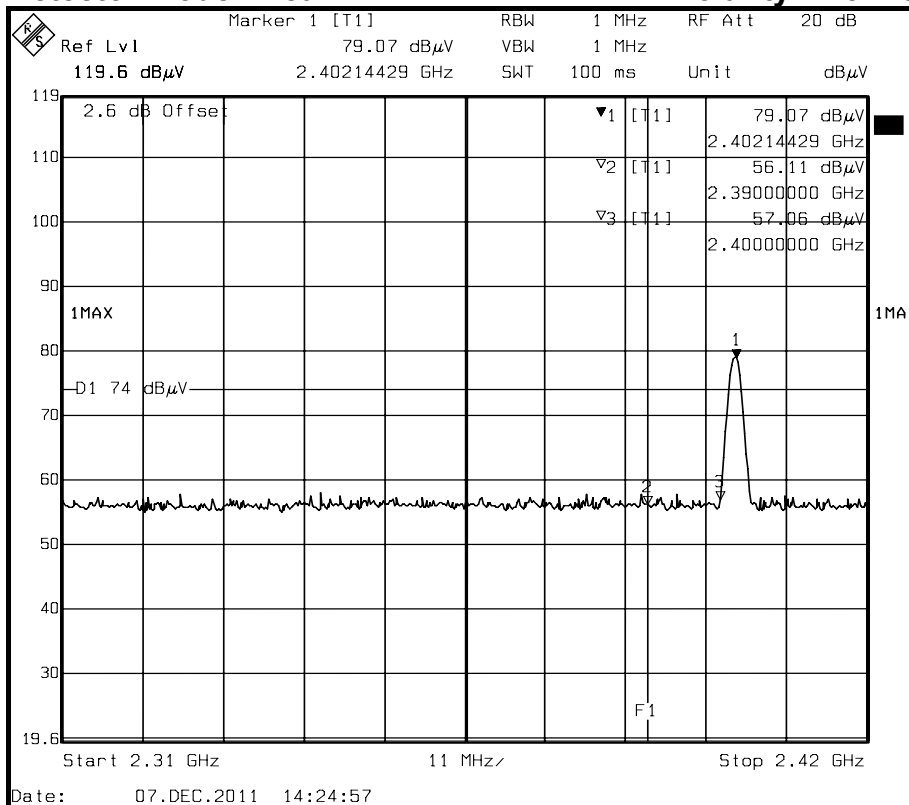
Detector mode: Peak

Polarity: Vertical



Detector mode : Peak

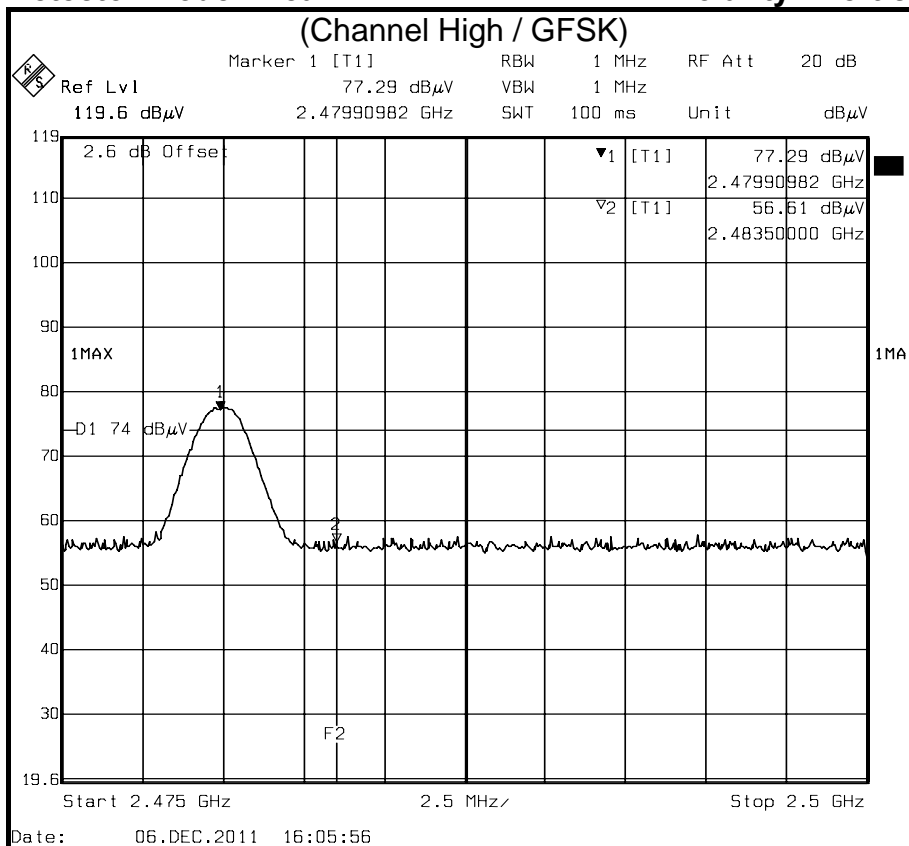
Polarity : Horizontal





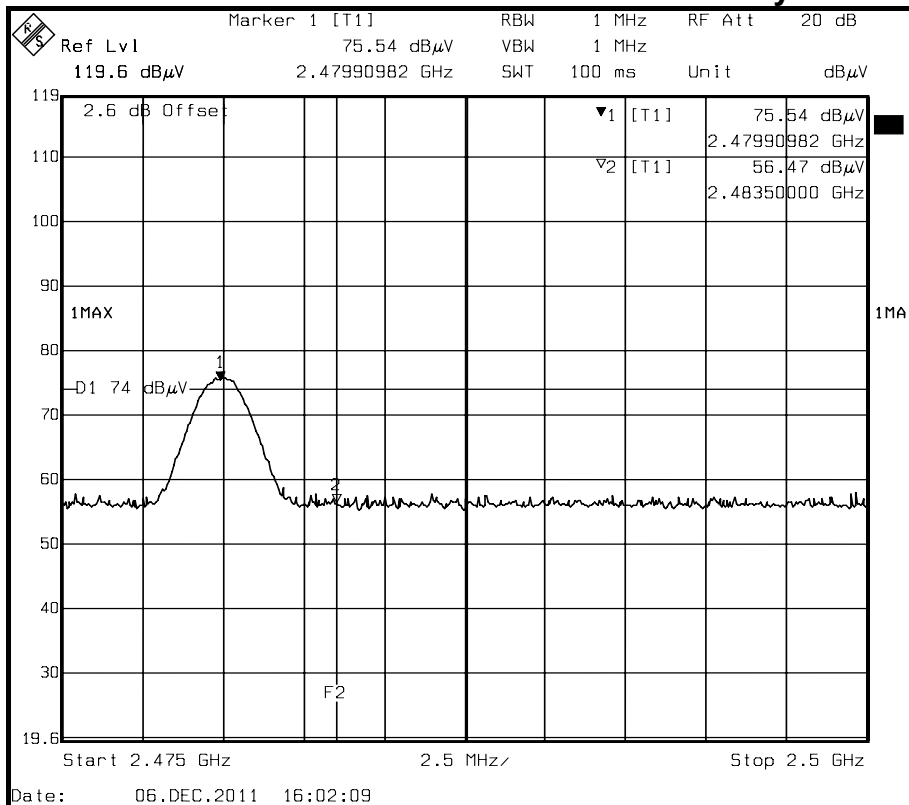
Detector mode : Peak

Polarity : Vertical



Detector mode : Peak

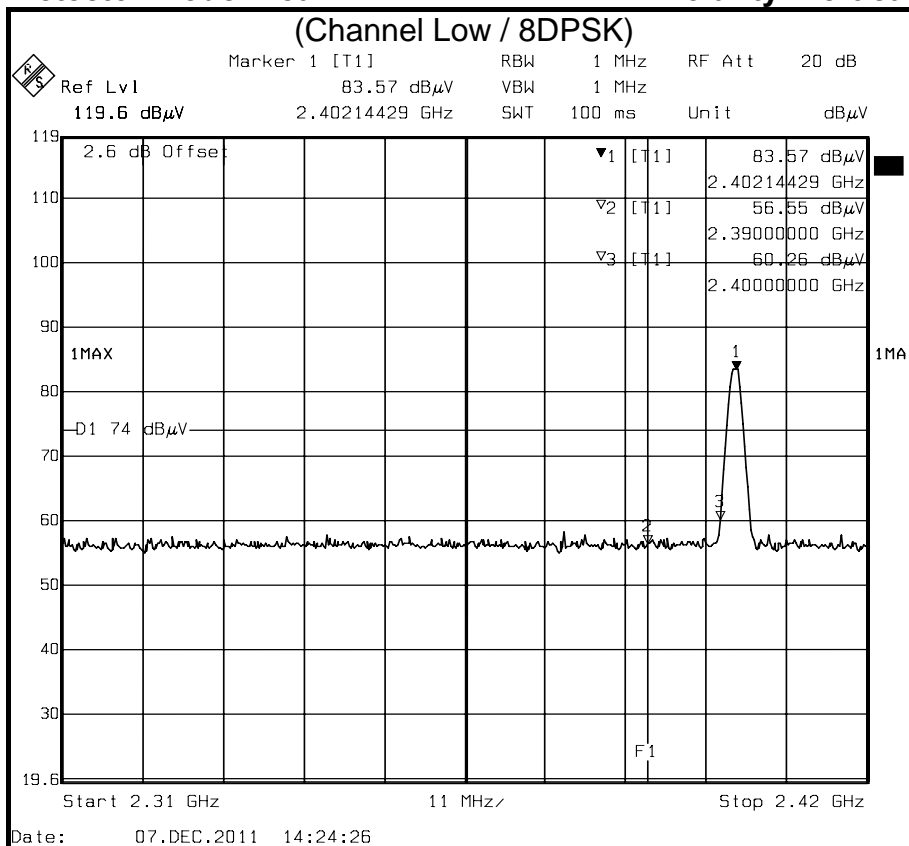
Polarity : Horizontal





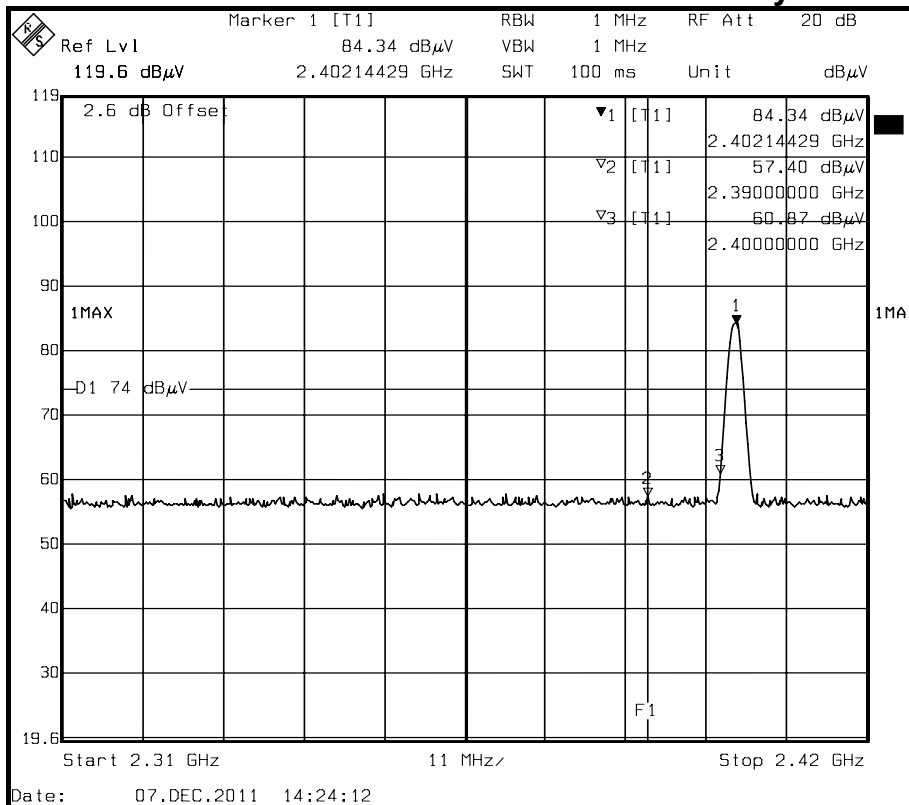
Detector mode: Peak

Polarity: Vertical



Detector mode : Peak

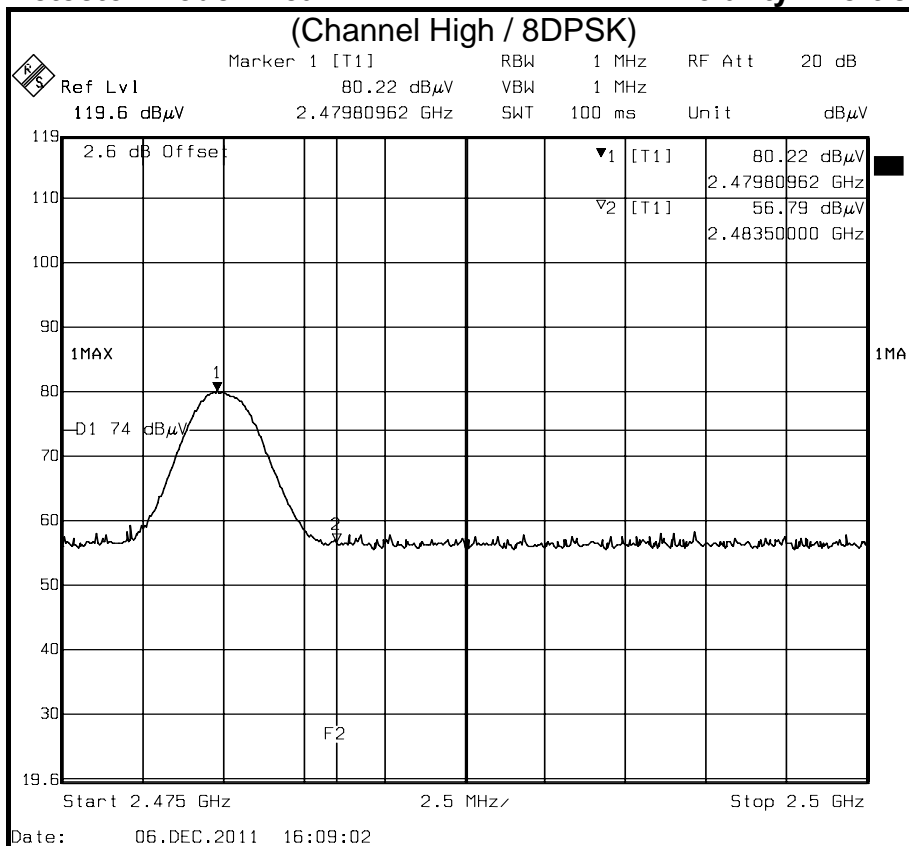
Polarity : Horizontal





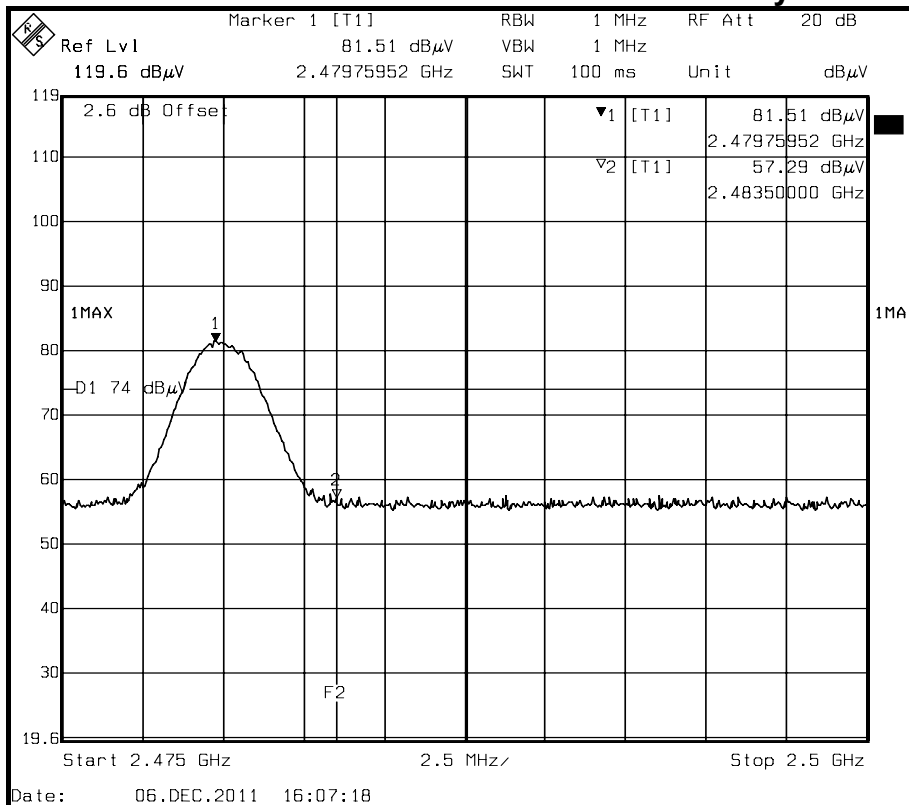
Detector mode : Peak

Polarity : Vertical



Detector mode : Peak

Polarity : Horizontal





7.2 SPURIOUS EMISSION

LIMIT

1. In the section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (µV/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

**MEASUREMENT EQUIPMENT USED**

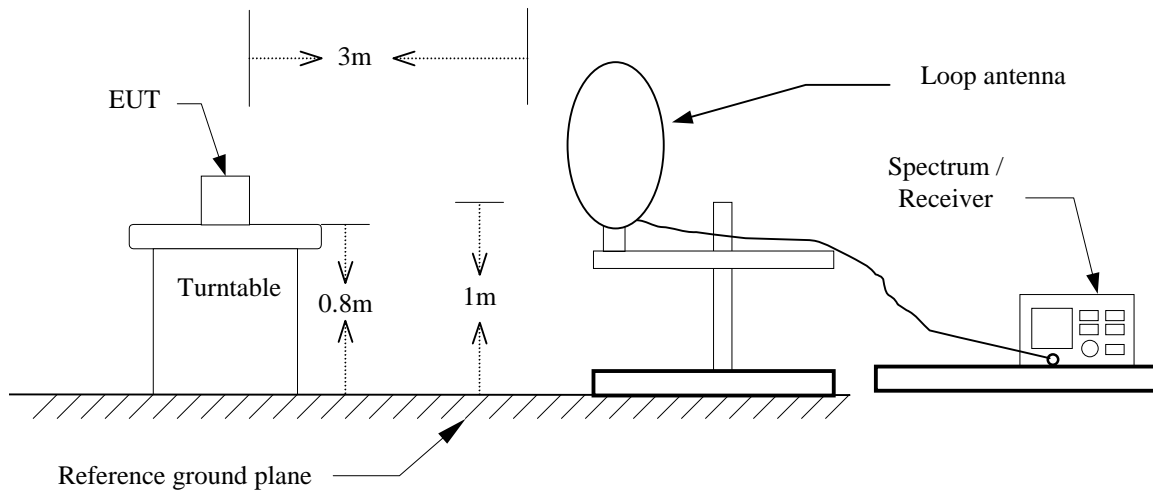
Open Area Test Site # 6				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	NOV. 17, 2012
BI-LOG Antenna	Sunol	JB1	A070506-2	OCT. 03, 2012
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2012
Pre-Amplifier	HP	8447F	2944A03817	NOV. 23, 2012
EMI Receiver	R&S	ESVS10	833206/012	MAY 10, 2012
RF Cable	SUHNER	SUCOFLEX104PEA	20520/4PEA	NOV. 10, 2012
Horn Antenna	Com-Power	AH-118	071032	DEC. 27, 2011
Spectrum Analyzer	R&S	FSEK 30	835253/002	SEP. 29, 2012
Pre-Amplifier	MITEQ	AFS44-00108650-4 2-10P-44	1205908	NOV. 23, 2012
3116 Double Ridge Antenna (40G)	ETS-LINDGREN	EMCO-003	00078	NOV. 14, 2012
Turn Table	Yo Chen	001	-----	N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	CT	SC101	-----	N.C.R.
RF Swich	E-INSTRUMENT TELH LTD	ERS-180A	EC1204141	N.C.R
Power Meter	Anritsu	ML2487A	6K00003888	MAY 30, 2012
Power Sensor	Anritsu	MA2491A	33265	MAY 30, 2012
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 09, 2012
Signal Generator	HP	8673C	2938A00663	SEP. 12, 2012
DC Power Source	LOKO	DSP-5050	L1507009282	N.C.R

Remark: Each piece of equipment is scheduled for calibration once a year.

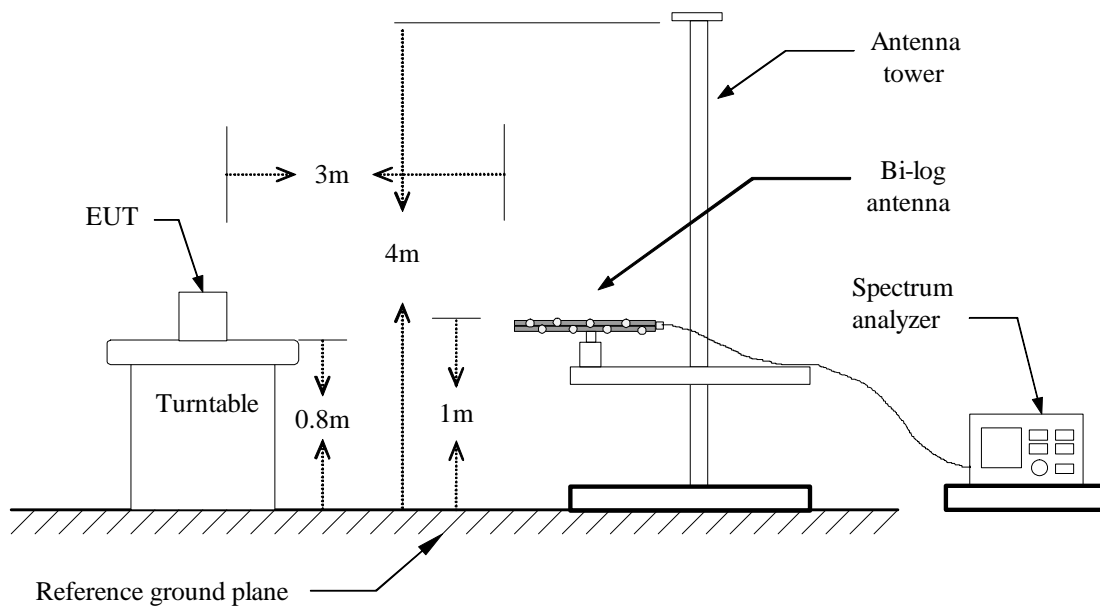


Test Configuration

9kHz ~ 30MHz

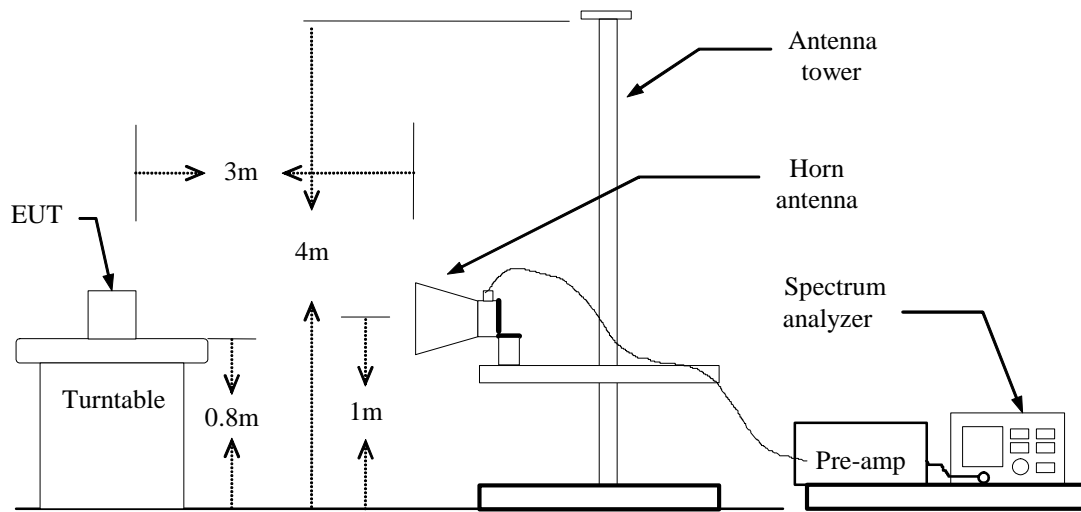


30MHz ~ 1GHz





Above 1 GHz





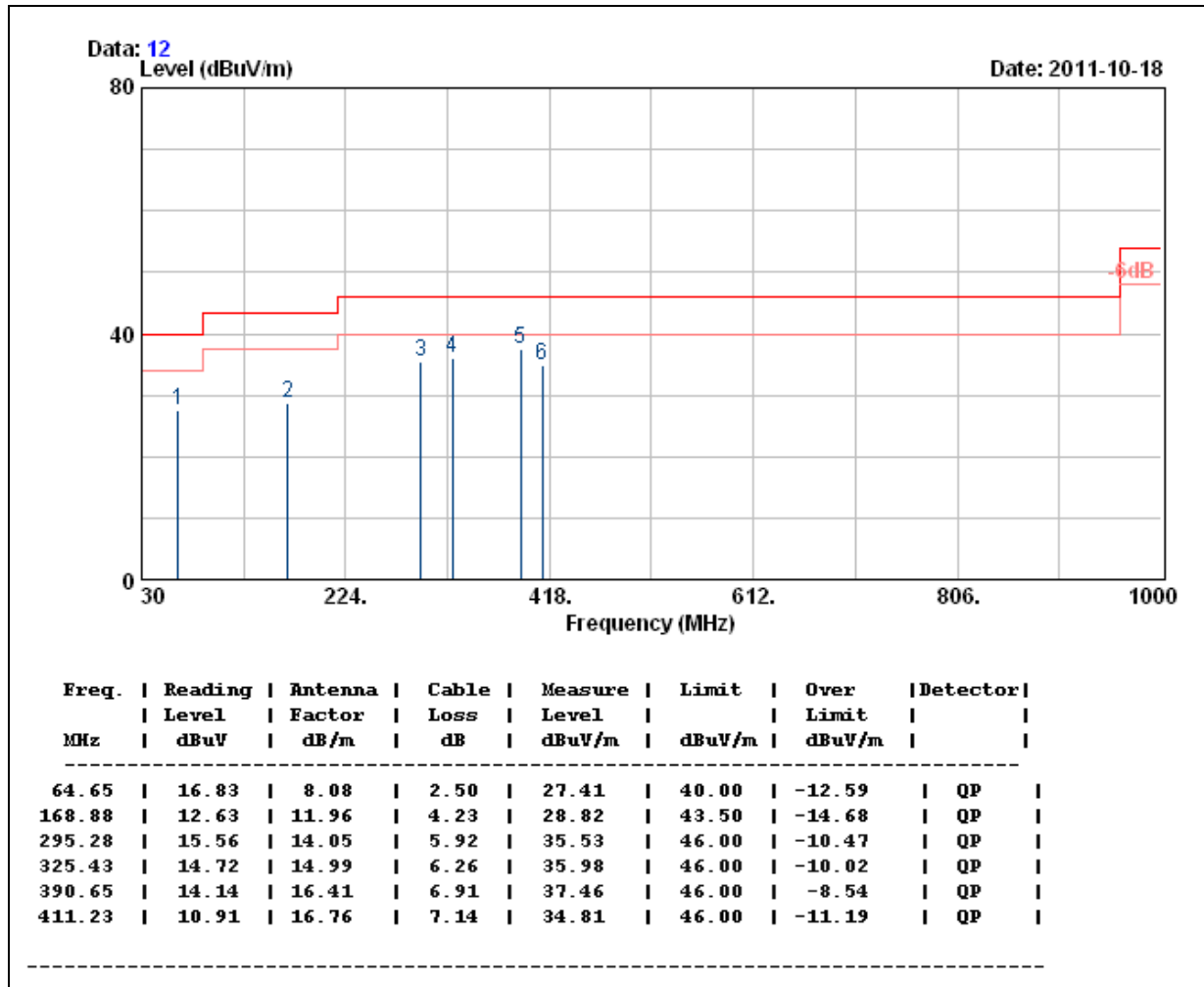
TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the Spectrum Analyzer / Receiver in the following setting as:
Below 1GHz:
The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency.
Above 1GHz:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: PEAK + DUTY FACTOR
7. Repeat above procedures until the measurements for all frequencies are complete.

**Below 1 GHz**

Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Charg Mode (Adapter 1:FRA05-S05-1)	Temp & Humidity	29°C, 52%

Vertical

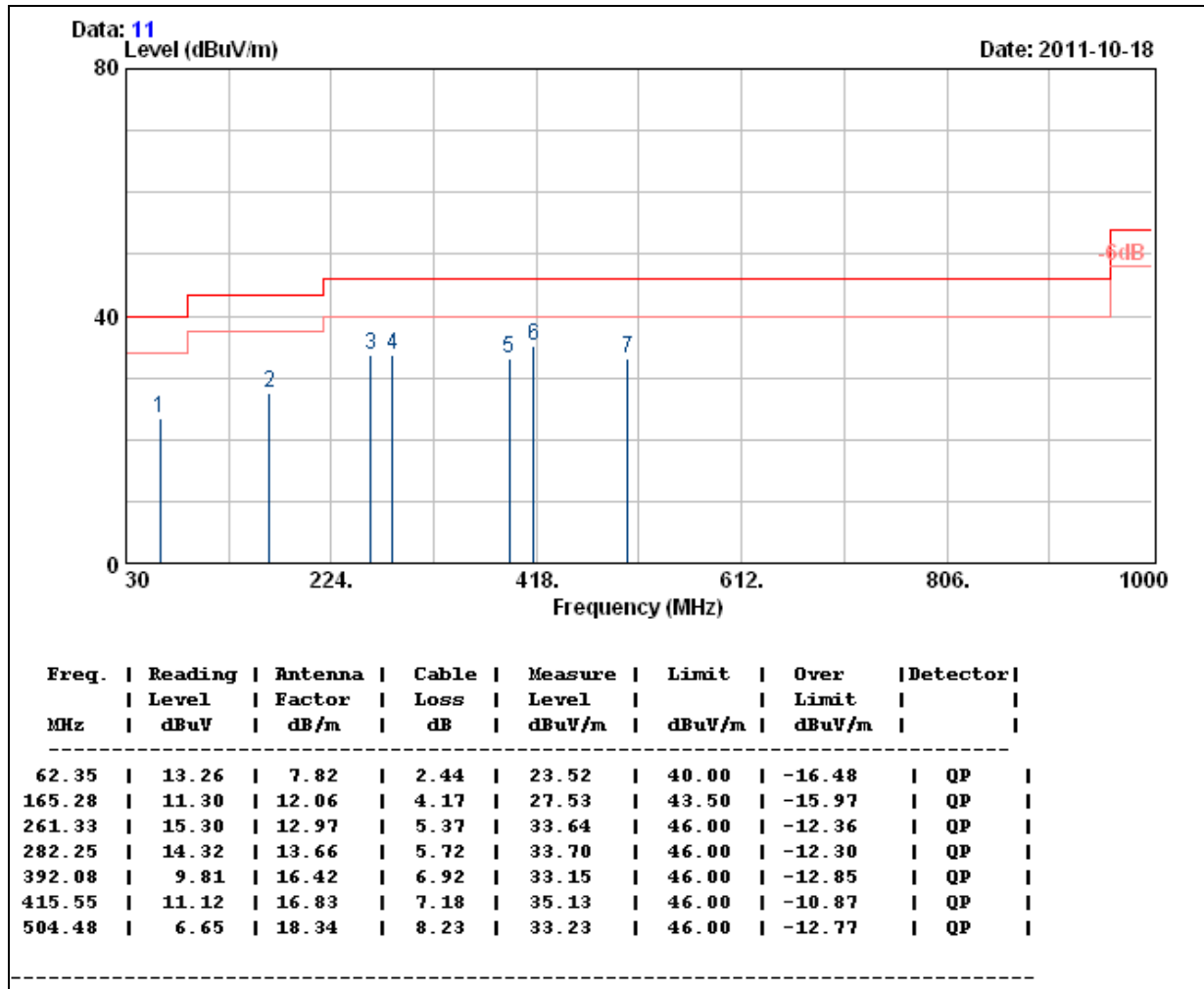
**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Charg Mode (Adapter 1:FRA05-S05-1)	Temp & Humidity	29°C, 52%

Horizontal

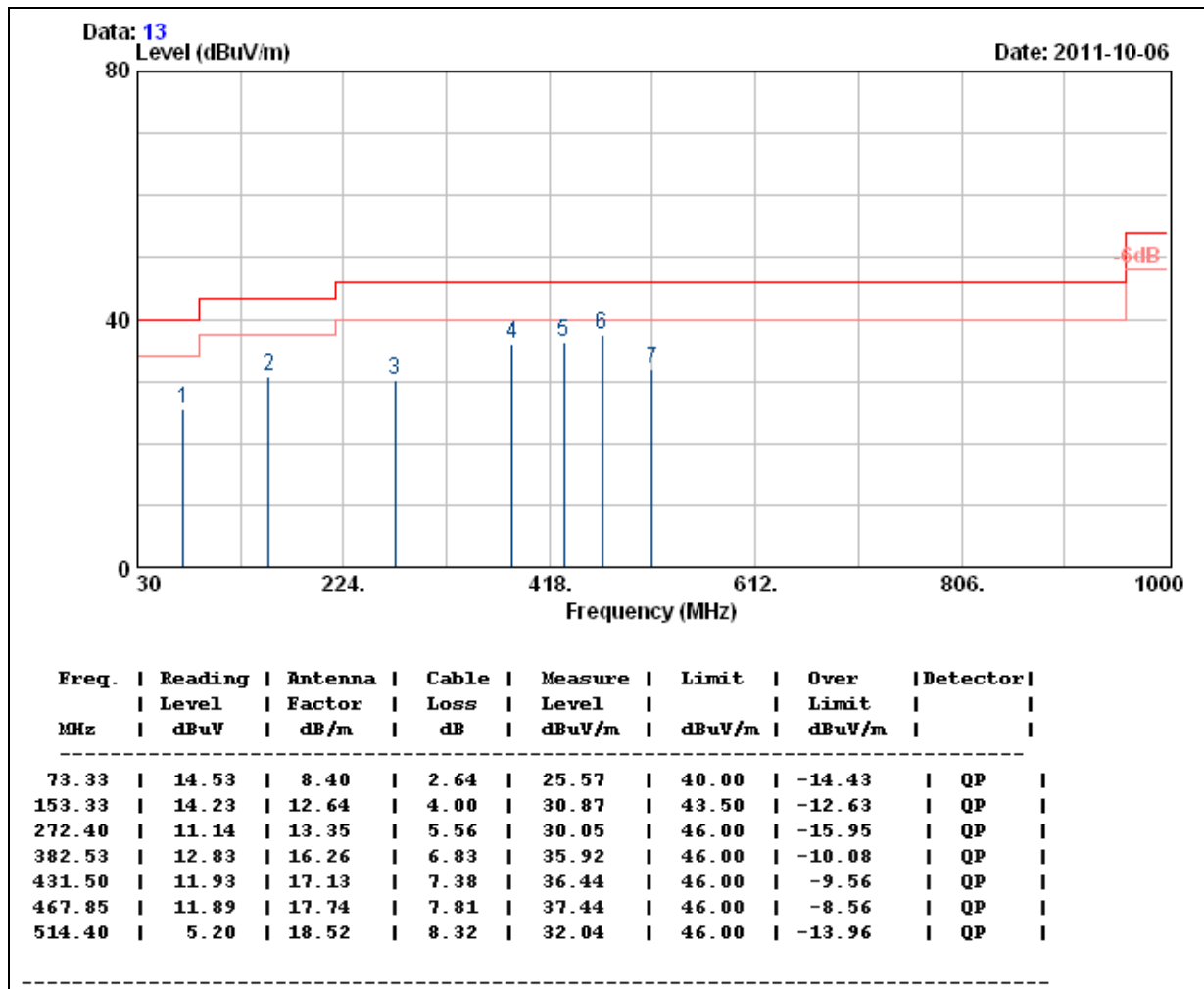
**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	Bluetooth Goggle	Test Date	Oct. 06, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Charg Mode (Adapter 2:TEKA006-0501000UK)	Temp & Humidity	29°C, 52%

Vertical

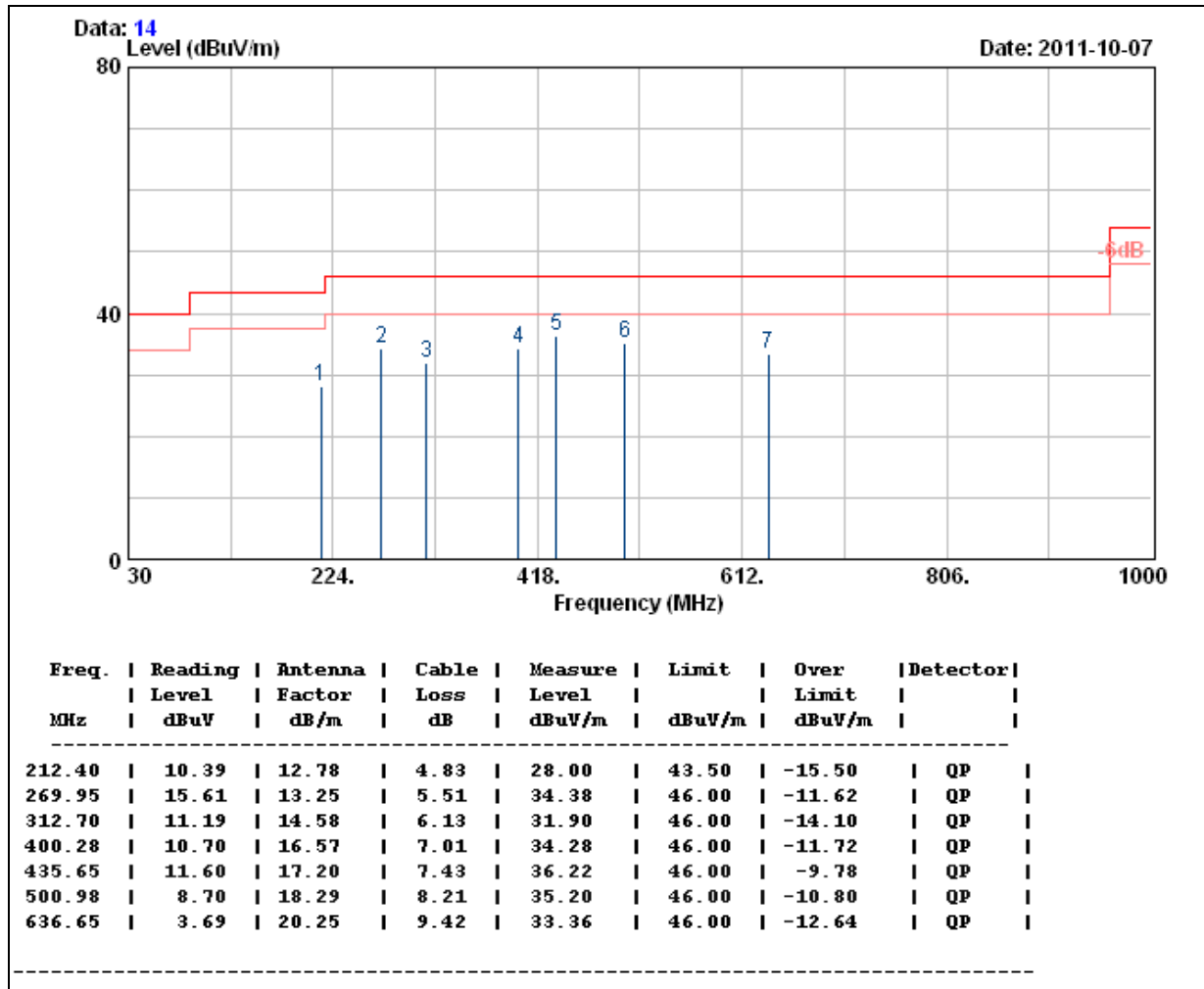
**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	Bluetooth Goggle	Test Date	Oct. 07, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Charg Mode (Adapter 2:TEKA006-0501000UK)	Temp & Humidity	29°C, 52%

Horizontal

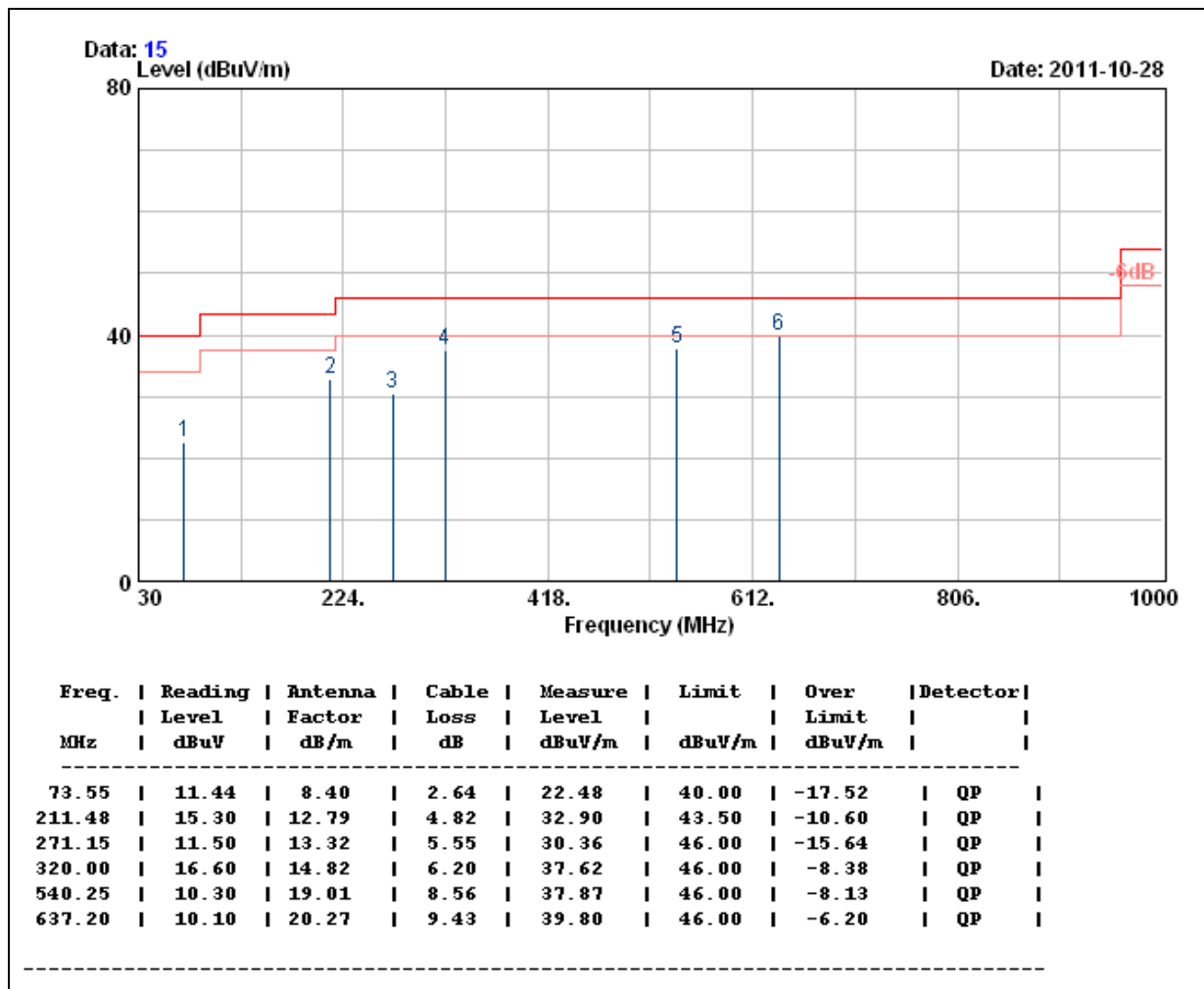
**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	Bluetooth Goggle	Test Date	Oct. 28, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Normal Operation	Temp & Humidity	29°C, 52%

Vertical

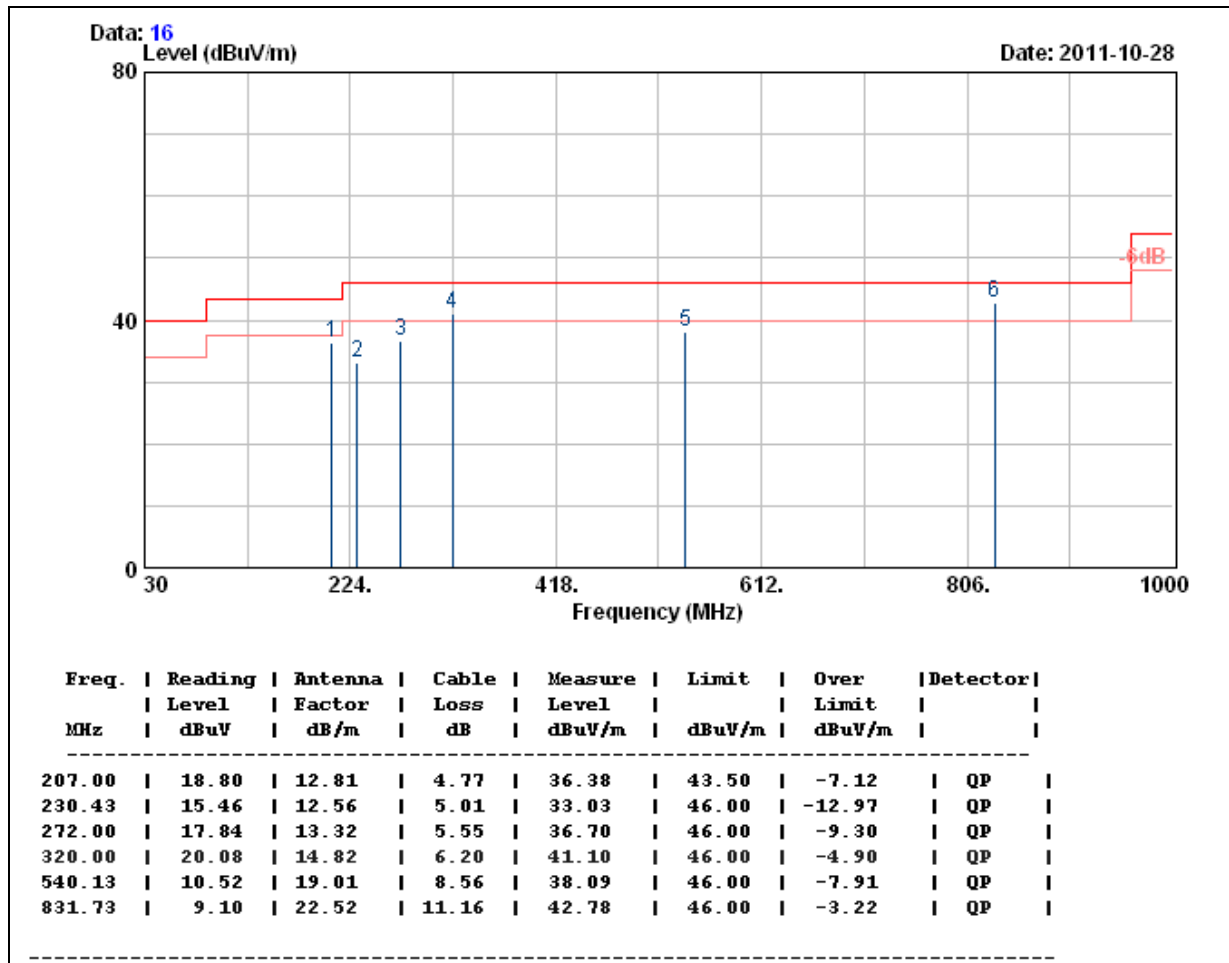
**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Product Name	Bluetooth Goggle	Test Date	Oct. 28, 2011
Model Name	W301	Test By	Agun Huang
Test Mode	Normal Operation	Temp & Humidity	29°C, 52%

Horizontal

**Remark:**

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

**Above 1 GHz**

EUT has supported two data rates (9.6kbps , 40kbps) which have been investigated during the test, and found the 9.6kbps as the worst case recorded.

Operation Mode: TX / Low / GFSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2401.98	87.65	29.84	2.61	41.10	0.00	79.00	114.00	-35.00	P
2401.98	N/A	29.84	2.61	41.10	0.00	59.00	94.00	-35.00	A
* 1601.01	61.47	27.37	2.22	41.58	0.84	50.32	74.00	-23.68	P
* 1601.01	N/A	27.37	2.22	41.58	0.84	30.32	54.00	-23.68	A
* 4804.00	57.89	33.11	3.73	42.36	0.69	53.05	74.00	-20.95	P
* 4804.00	N/A	33.11	3.73	42.36	0.69	33.05	54.00	-20.95	A
2400.00	65.78	29.84	2.61	41.10	0.00	57.14	74.00	-16.86	P
2400.00	N/A	29.84	2.61	41.10	0.00	37.14	54.00	-16.86	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Low / GFSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2402.13	88.16	29.84	2.61	41.10	0.00	79.51	114.00	-34.49	P
2402.13	N/A	29.84	2.61	41.10	0.00	59.51	94.00	-34.49	A
* 1601.02	62.95	27.37	2.22	41.58	0.84	51.80	74.00	-22.20	P
* 1601.02	N/A	27.37	2.22	41.58	0.84	31.80	54.00	-22.20	A
* 4804.01	57.17	33.11	3.73	42.36	0.69	52.33	74.00	-21.67	P
* 4804.01	N/A	33.11	3.73	42.36	0.69	32.33	54.00	-21.67	A
2400.00	66.08	29.84	2.61	41.10	1.24	58.68	74.00	-15.32	P
2400.00	N/A	29.84	2.61	41.10	1.24	38.68	54.00	-15.32	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Mid / GFSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.85	88.62	29.78	2.63	41.10	0.00	79.93	114.00	-34.07	P
2440.85	N/A	29.78	2.63	41.10	0.00	59.93	94.00	-34.07	A
1627.64	62.26	27.57	2.24	41.54	0.85	51.38	74.00	-22.62	P
1627.64	N/A	27.57	2.24	41.54	0.85	31.38	54.00	-22.62	A
* 4882.10	58.12	33.35	3.75	42.44	0.72	53.49	74.00	-20.51	P
* 4882.10	N/A	33.35	3.75	42.44	0.72	33.49	54.00	-20.51	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Mid / GFSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2441.06	88.39	29.78	2.63	41.10	0.00	79.70	114.00	-34.30	P
2441.06	N/A	29.78	2.63	41.10	0.00	59.70	94.00	-34.30	A
1627.64	63.70	27.57	2.24	41.54	0.85	52.82	74.00	-21.18	P
1627.64	N/A	27.57	2.24	41.54	0.85	32.82	54.00	-21.18	A
* 4880.10	57.73	33.34	3.75	42.44	0.71	53.09	74.00	-20.91	P
* 4880.10	N/A	33.34	3.75	42.44	0.71	33.09	54.00	-20.91	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / High / GFSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2479.98	84.37	29.73	2.65	41.11	0.00	75.64	114.00	-38.36	P
2479.98	N/A	29.73	2.65	41.11	0.00	55.64	94.00	-38.36	A
1652.98	62.22	27.76	2.25	41.51	0.87	51.59	74.00	-22.41	P
1652.98	N/A	27.76	2.25	41.51	0.87	31.59	54.00	-22.41	A
* 4959.95	57.24	33.58	3.77	42.52	0.74	52.81	74.00	-21.19	P
* 4959.95	N/A	33.58	3.77	42.52	0.74	32.81	54.00	-21.19	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.

**Operation Mode:** TX / High / GFSK**Test Date:** Nov. 30, 2011**Temperature:** 27°C**Tested by:** Agun Huang**Humidity:** 52% RH**Polarity:** Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2480.02	85.90	29.73	2.65	41.11	0.00	77.17	114.00	-36.83	P
2480.02	N/A	29.73	2.65	41.11	0.00	57.17	94.00	-36.83	A
1653.02	59.97	27.76	2.25	41.51	0.87	49.34	74.00	-24.66	P
1653.02	N/A	27.76	2.25	41.51	0.87	29.34	54.00	-24.66	A
* 4959.99	57.09	33.58	3.77	42.52	0.74	52.66	74.00	-21.34	P
* 4959.99	N/A	33.58	3.77	42.52	0.74	32.66	54.00	-21.34	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Low / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2401.98	93.15	29.84	2.61	41.10	0.00	84.50	114.00	-29.50	P
2401.98	N/A	29.84	2.61	41.10	0.00	64.50	94.00	-29.50	A
* 1601.01	62.67	27.37	2.22	41.58	0.84	51.52	74.00	-22.48	P
* 1601.01	N/A	27.37	2.22	41.58	0.84	31.52	54.00	-22.48	A
* 4804.00	58.43	33.11	3.73	42.36	0.69	53.59	74.00	-20.41	P
* 4804.00	N/A	33.11	3.73	42.36	0.69	33.59	54.00	-20.41	A
2400.00	68.23	29.84	2.61	41.10	1.24	60.83	74.00	-13.17	P
2400.00	N/A	29.84	2.61	41.10	1.24	40.83	54.00	-13.17	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Low / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2402.13	92.06	29.84	2.61	41.10	0.00	83.41	114.00	-30.59	P
2402.13	N/A	29.84	2.61	41.10	0.00	63.41	94.00	-30.59	A
* 1601.02	62.67	27.37	2.22	41.58	0.84	51.52	74.00	-22.48	P
* 1601.02	N/A	27.37	2.22	41.58	0.84	31.52	54.00	-22.48	A
* 4804.01	59.06	33.11	3.73	42.36	0.69	54.22	74.00	-19.78	P
* 4804.01	N/A	33.11	3.73	42.36	0.69	34.22	54.00	-19.78	A
2400.00	67.63	29.84	2.61	41.10	1.24	60.23	74.00	-13.77	P
2400.00	N/A	29.84	2.61	41.10	1.24	40.23	54.00	-13.77	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Mid / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.85	90.61	29.78	2.63	41.10	0.00	81.92	114.00	-32.08	P
2440.85	N/A	29.78	2.63	41.10	0.00	61.92	94.00	-32.08	A
1627.64	63.64	27.57	2.24	41.54	0.85	52.76	74.00	-21.24	P
1627.64	N/A	27.57	2.24	41.54	0.85	32.76	54.00	-21.24	A
* 4882.10	58.73	33.35	3.75	42.44	0.72	54.10	74.00	-19.90	P
* 4882.10	N/A	33.35	3.75	42.44	0.72	34.10	54.00	-19.90	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / Mid / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2440.85	90.64	29.78	2.63	41.10	0.00	81.95	114.00	-32.05	P
2440.85	N/A	29.78	2.63	41.10	0.00	61.95	94.00	-32.05	A
1627.64	63.43	27.57	2.24	41.54	0.85	52.55	74.00	-21.45	P
1627.64	N/A	27.57	2.24	41.54	0.85	32.55	54.00	-21.45	A
* 4882.10	57.99	33.35	3.75	42.44	0.72	53.36	74.00	-20.64	P
* 4882.10	N/A	33.35	3.75	42.44	0.72	33.36	54.00	-20.64	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / High / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2479.98	90.67	29.73	2.65	41.11	0.00	81.94	114.00	-32.06	P
2479.98	N/A	29.73	2.65	41.11	0.00	61.94	94.00	-32.06	A
1652.98	63.18	27.76	2.25	41.51	0.87	52.55	74.00	-21.45	P
1652.98	N/A	27.76	2.25	41.51	0.87	32.55	54.00	-21.45	A
* 4959.95	57.24	33.58	3.77	42.52	0.74	52.81	74.00	-21.19	P
* 4959.95	N/A	33.58	3.77	42.52	0.74	32.81	54.00	-21.19	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.



Operation Mode: TX / High / 8DPSK

Test Date: Nov. 30, 2011

Temperature: 27°C

Tested by: Agun Huang

Humidity: 52% RH

Polarity: Ver. / Hor.

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	(P/Q/A)
2480.02	88.67	29.73	2.65	41.11	0.00	79.94	114.00	-34.06	P
2480.02	N/A	29.73	2.65	41.11	0.00	59.94	94.00	-34.06	A
1653.02	61.36	27.76	2.25	41.51	0.87	50.73	74.00	-23.27	P
1653.02	N/A	27.76	2.25	41.51	0.87	30.73	54.00	-23.27	A
* 4959.99	58.24	33.58	3.77	42.52	0.74	53.81	74.00	-20.19	P
* 4959.99	N/A	33.58	3.77	42.52	0.74	33.81	54.00	-20.19	A
N/A	---	---	---	---	---	---	---	---	---

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.

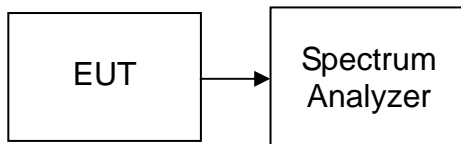


7.3 DUTY CYCLE CORRECTION FACTOR

LIMIT

Nil (No dedicated limit specified in the Rules)

Test Configuration



TEST PROCEDURE

1. Set EUT in transmitting mode.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Adjust suitable Sweep Time to test.
4. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

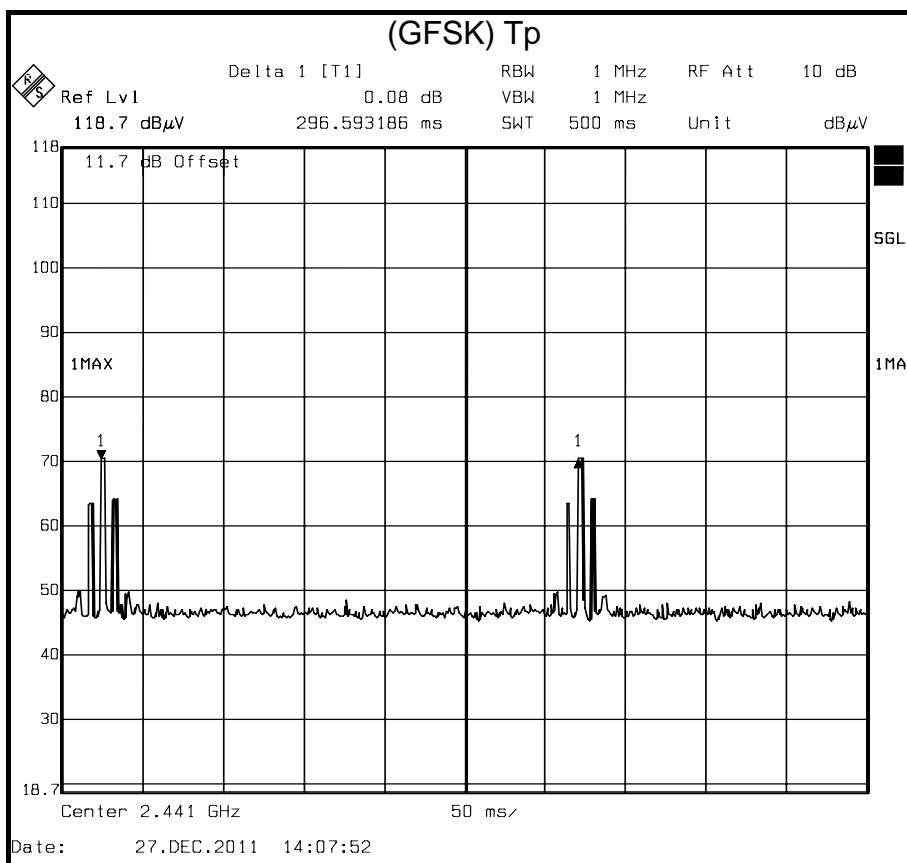
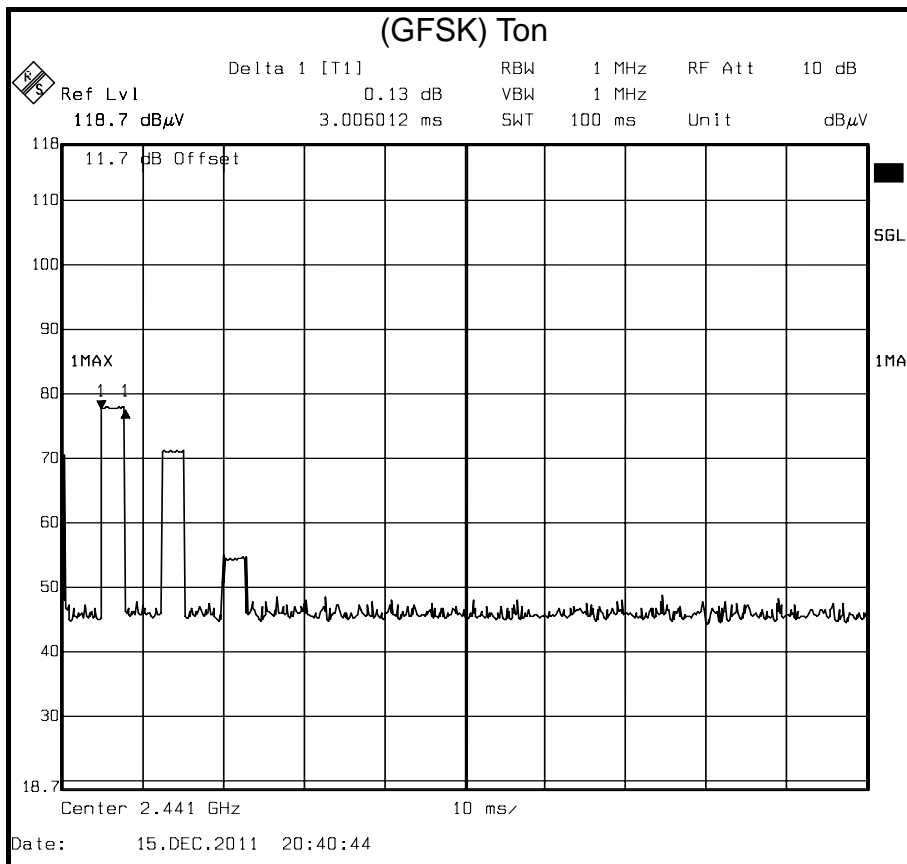
Test Data

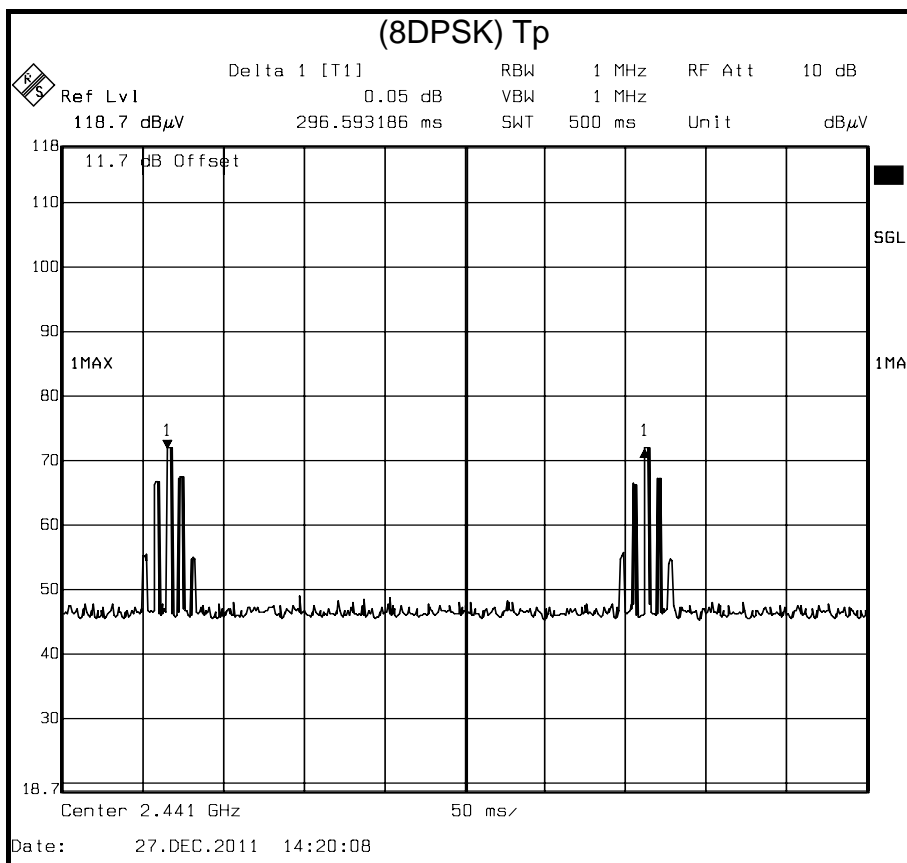
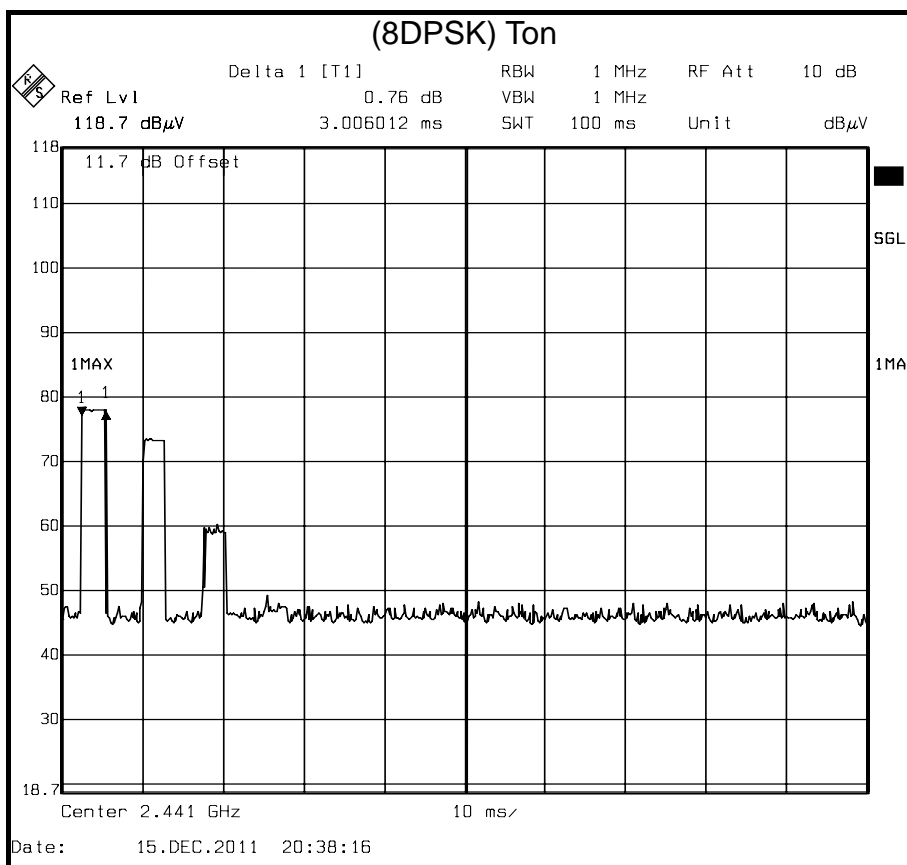
GFSK	Ton-1	3.006012
	Total Ton	3.006
	Tp(Ton+Toff)	100.000
	Duty Cycle	0.030
	Duty Factor	-20.000
8DPSK	Ton-1	3.006012
	Total Ton	3.006
	Tp(Ton+Toff)	100.000
	Duty Cycle	0.030
	Duty Factor	-20.000

Remark: Tp>100ms. Use 100ms for calcuation.



Test Plot







7.4 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

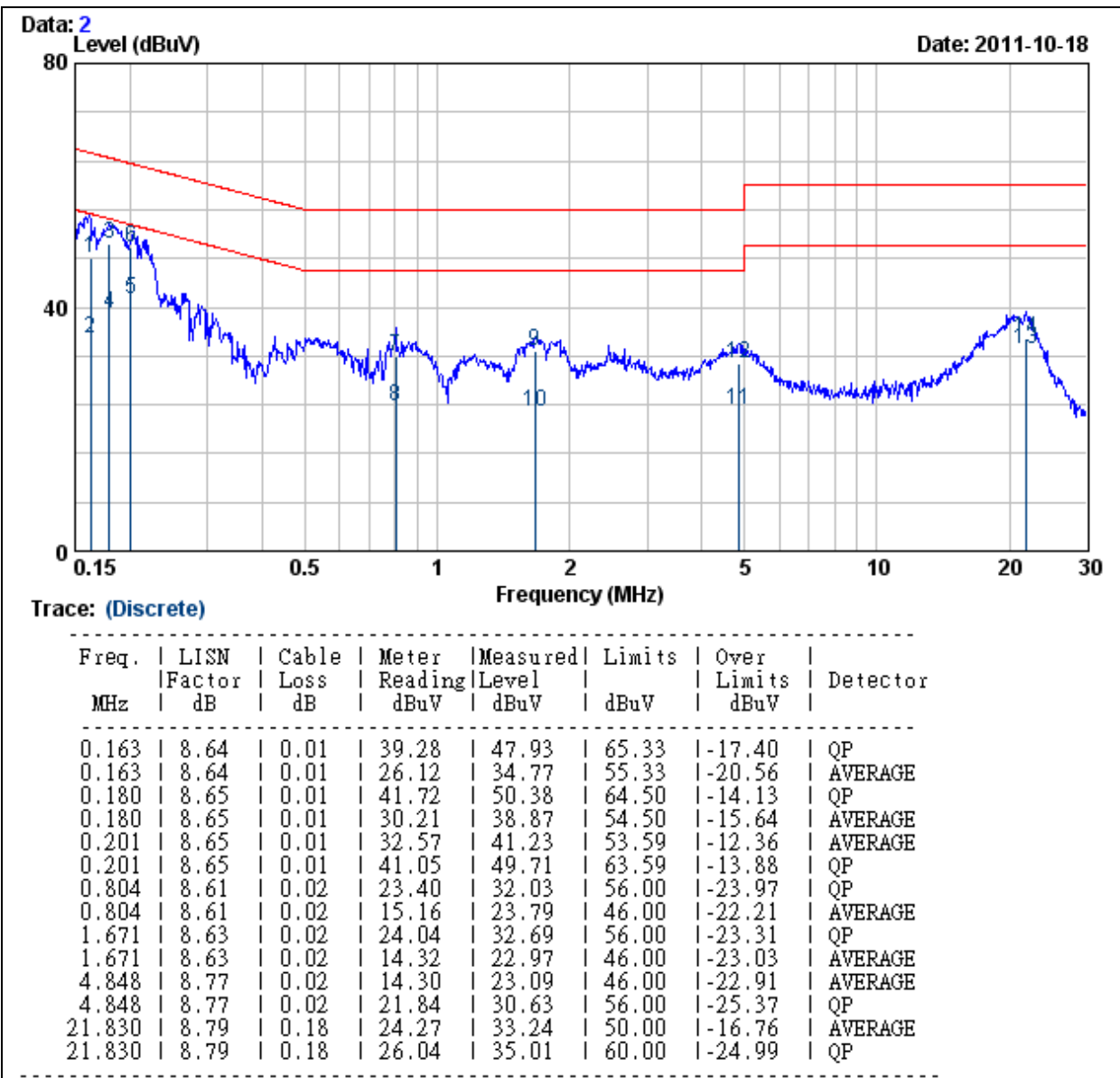
MEASUREMENT EQUIPMENT USED

Conducted Emission room #1				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N.	SCHWARZBECK	NNLK 8121	8121-308	SEP. 06, 2012
	Rohde & Schwarz	ESH 3-Z5	840062/021	AUG. 02, 2012
TEST RECEIVER	Rohde & Schwarz	ESCS 30	100348	JUL. 03, 2012
BNC COAXIAL CABLE	CCS	BNC50	11	OCT. 04, 2012
Test S/W	e-3 (5.04211c) R&S (2.27)			

Remark: Each piece of equipment is scheduled for calibration once a year.

**Test results**

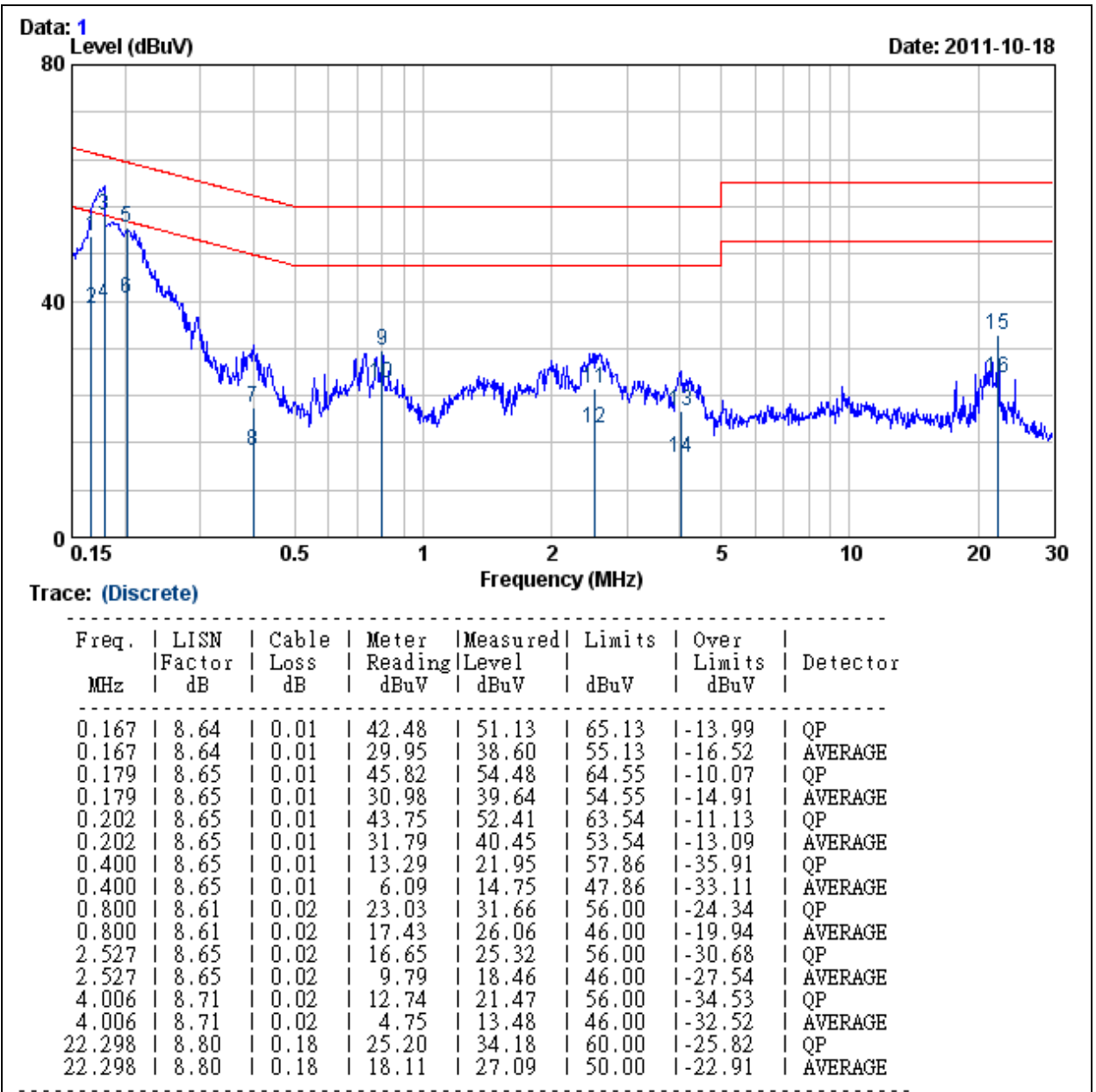
Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Ted Huang
Test Mode	Normal Operation (Adapter1 : FRA05-S05-1)	Temp & Humidity	25°C, 64%

LINE**Remark:**

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value



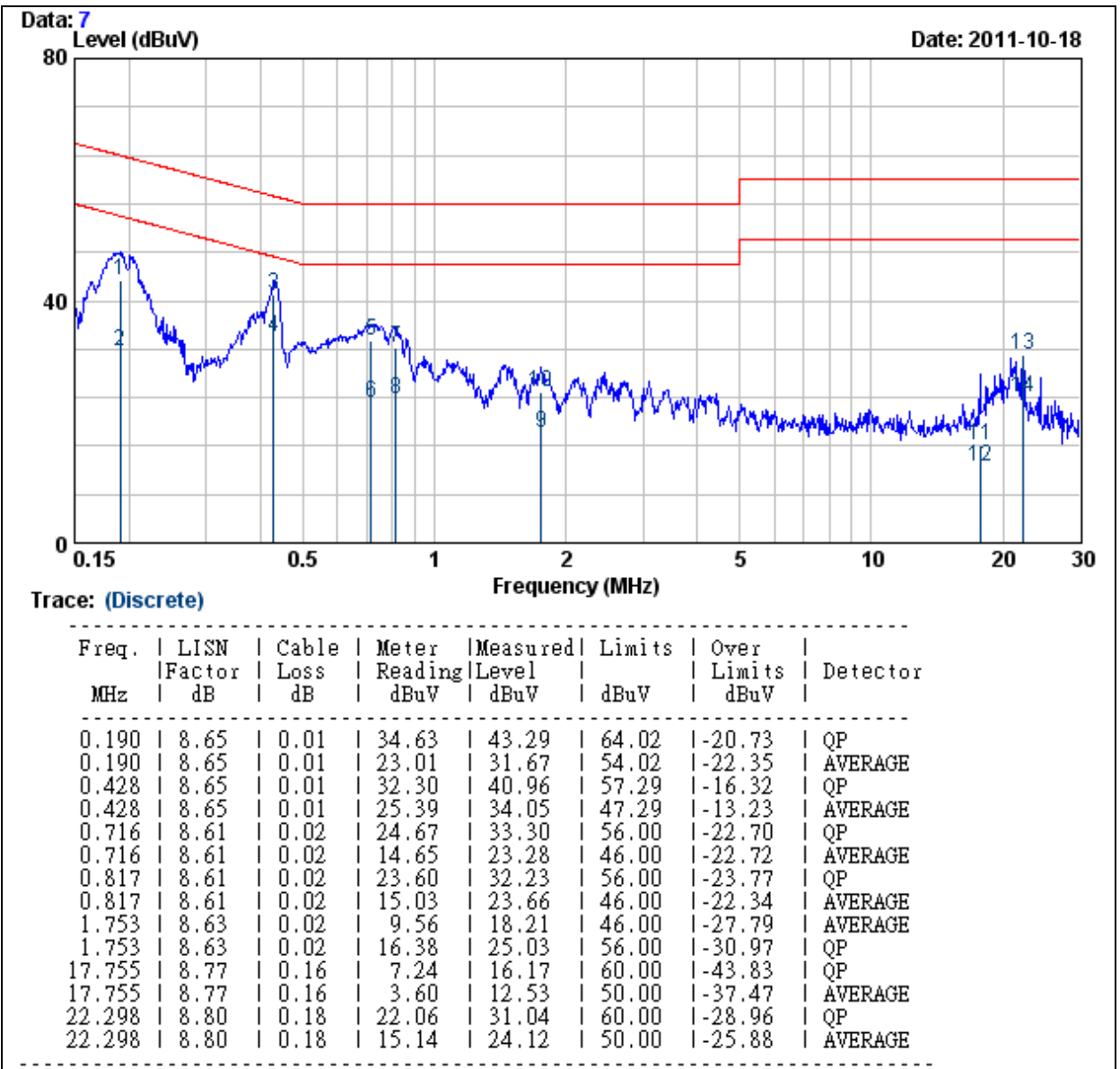
Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Ted Huang
Test Mode	Normal Operation (Adapter1 : FRA05-S05-1)	Temp & Humidity	25°C, 64%

NEUTRAL**Remark:**

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value

**TEST RESULTS**

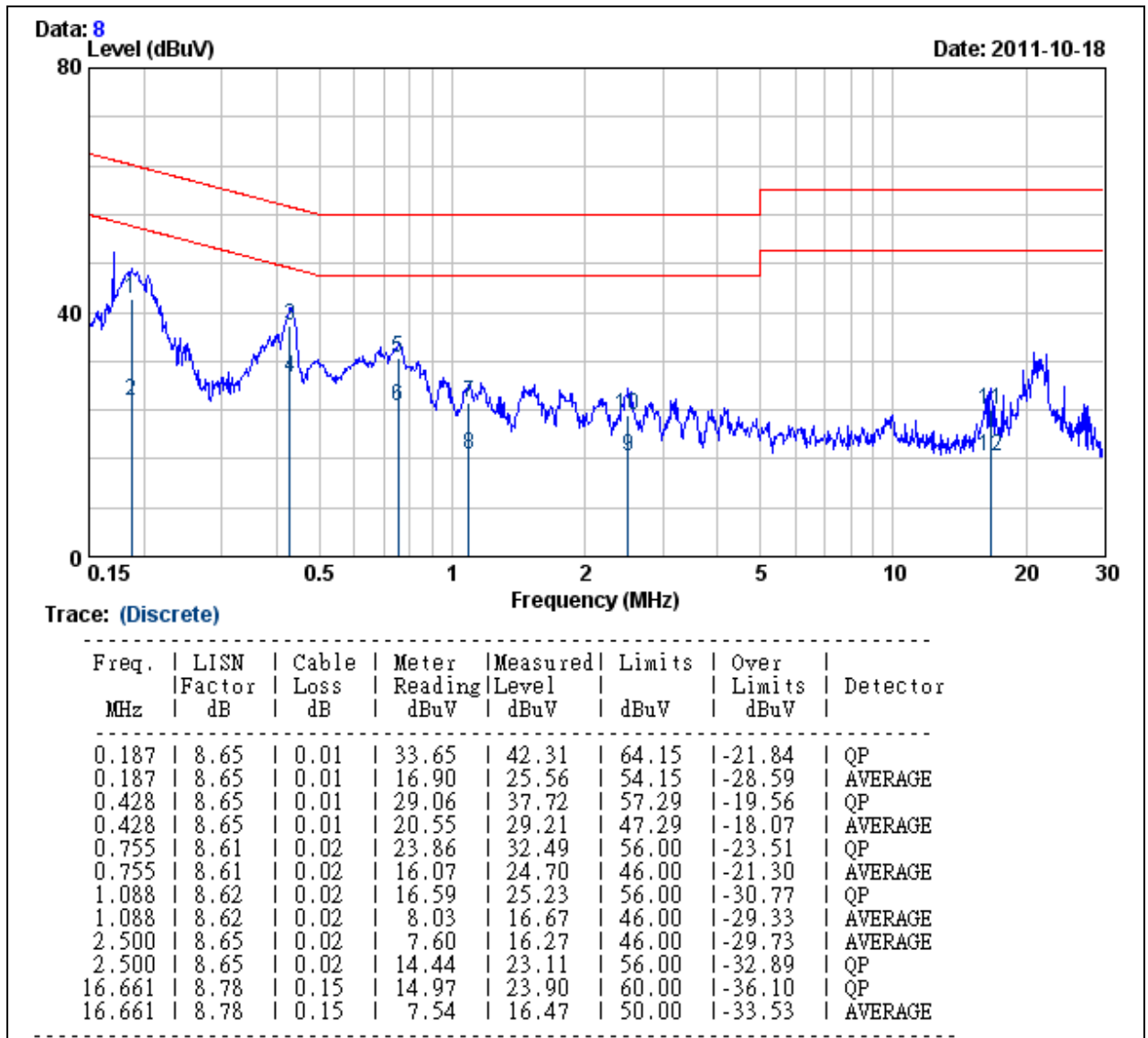
Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Ted Huang
Test Mode	Charge Mode (Adapter2 : TEKA006-0501000UK)	Temp & Humidity	25°C, 64%

LINE**Remark:**

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value



Product Name	Bluetooth Goggle	Test Date	Oct. 18, 2011
Model Name	W301	Test By	Ted Huang
Test Mode	Charge Mode (Adapter2 : TEKA006-0501000UK)	Temp & Humidity	25°C, 64%

NEUTRAL**Remark:**

1. Correction Factor = Insertion loss + cable loss
2. Margin value = Emission level – Limit value