

FCC CERTIFICATION  
On Behalf of  
TRIUMPH BOARD a.s.

TRIUMPH BOARD Voting RF500  
Model No.: 8592580091100

FCC ID: YIP91100

Prepared for : TRIUMPH BOARD a.s.  
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Prepared by : ACCURATE TECHNOLOGY CO. LTD  
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Report Number : ATE20111676  
Date of Test : August 15-16, 2011  
Date of Report : August 16, 2011

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APPENDIX I ( TEST CURVES) (22 pages)

## Test Report Certification

#### Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2008  
ANSI C63.4: 2003**

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 15-16, 2011

Prepared by :

Apple Lv  
(Engineer)

Approved & Authorized Signer :

James  
(Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : TRIUMPH BOARD Voting RF500  
 Model Number : 8592580091100  
 Power Supply : DC 6V (Li-ion battery 2×)  
 Operate Frequency : 2410.239-2446.242MHz  
 Applicant : TRIUMPH BOARD a.s.  
 Address : Neklanova 122/15, 128 00 Praha 2, Czech Republic  
 Manufacturer : VOTEPLUS TECHNOLOGY LIMITED  
 Address : No.4, Xingfu Lu, Zhidi Zhuang, Nanzhen Cun, Panyu District, Guangzhou, Guangdong, China  
 Date of sample received : August 15, 2011  
 Date of Test : August 15-16, 2011

### 1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen  
 Listed by FCC  
 The Registration Number is 752051  
 Listed by Industry Canada  
 The Registration Number is 5077A-2  
 Accredited by China National Accreditation Committee for Laboratories  
 The Certificate Registration Number is L3193  
 Name of Firm : ACCURATE TECHNOLOGY CO. LTD  
 Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

### 1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty (9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty (30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty (Above 1GHz) = 4.06dB, k=2

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012

### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

## 4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

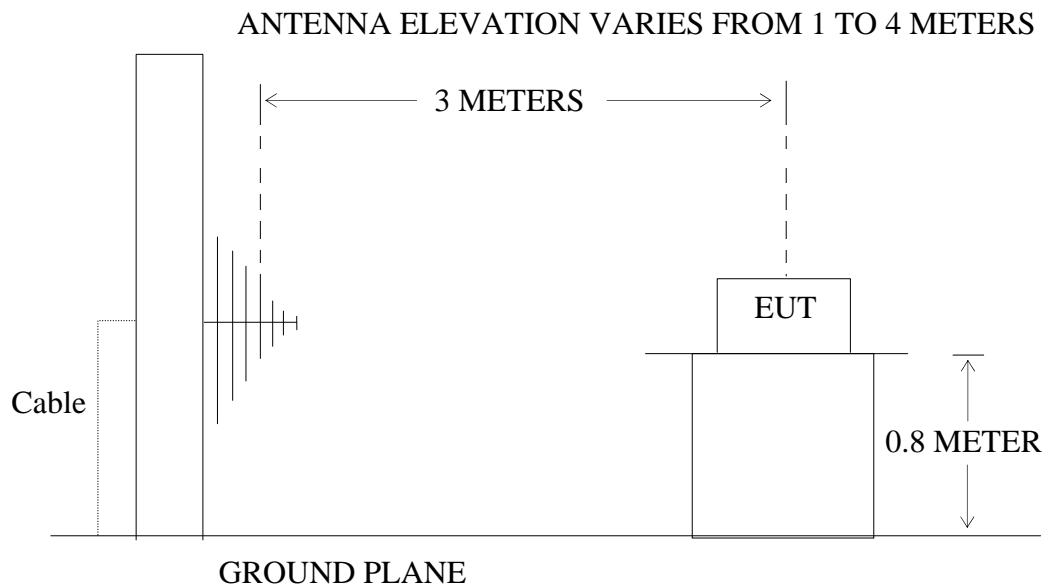
### 4.1. Block Diagram of Test Setup

#### 4.1.1. Block diagram of connection between the EUT and simulators



(EUT: TRIUMPH BOARD Voting RF500)

#### 4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: TRIUMPH BOARD Voting RF500)

## 4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB $\mu$ V/m and the harmonics shall not exceed 54 dB $\mu$ V/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

4.2.2.According to section 15.249(e), as shown in section 15.35(b), 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.

## 4.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 4.3.1. TRIUMPH BOARD Voting RF500 (EUT)

Model Number : 8592580091100  
 Serial Number : N/A  
 Manufacturer : VOTEPLUS TECHNOLOGY LIMITED

## 4.4.Operating Condition of EUT

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

4.4.2.Turn on the power of all equipment.

4.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2410-2446MHz MHz. We are select 2410MHz, 2426MHz, 2446MHz TX frequency to transmit.

#### 4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

## 4.6.The Field Strength of Radiation Emission Measurement Results PASS.

Date of Test:	August 15, 2011	Temperature:	25°C
EUT:	TRIUMPH BOARD Voting RF500	Humidity:	50%
Model No.:	8592580091100	Power Supply:	DC 6V
Test Mode:	TX 2410MHz	Test Engineer:	Pei

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2410.239	87.69	93.11	-7.43	80.26	85.68	94	114	13.74	-28.32	Vertical
2410.239	93.47	98.52	-7.43	86.04	91.09	94	114	7.96	-22.91	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4820.502	45.85	51.14	-0.21	45.64	50.93	54	74	8.36	-23.07	Vertical
4820.502	47.84	53.25	-0.21	47.63	53.04	54	74	6.37	-20.96	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 15, 2011	Temperature:	25°C
EUT:	TRIUMPH BOARD Voting RF500	Humidity:	50%
Model No.:	8592580091100	Power Supply:	DC 6V
Test Mode:	TX 2426MHz	Test Engineer:	Pei

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2426.240	87.93	93.60	-7.39	80.54	86.21	94	114	-13.46	-27.79	Vertical
2426.240	93.70	98.15	-7.39	86.31	90.76	94	114	-7.69	-23.24	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4825.489	45.16	50.62	-0.03	45.13	50.59	54	74	-8.87	-23.41	Vertical
4825.489	48.12	53.58	-0.03	48.09	53.55	54	74	-5.91	-20.45	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test: August 15, 2011  
 EUT: TRIUMPH BOARD Voting RF500  
 Model No.: 8592580091100  
 Test Mode: TX 2446MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 6V  
 Test Engineer: Pei

### Fundamental Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2446.242	88.52	94.03	-7.34	81.18	86.69	94	114	-12.82	-27.31	Vertical
2446.242	93.71	98.15	-7.34	86.37	90.81	94	114	-7.63	-23.19	Horizontal

### Harmonics Radiated Emissions

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4892.495	45.42	50.64	0.20	45.62	50.84	54	74	-8.38	-23.16	Vertical
4892.495	47.46	52.97	0.20	47.66	53.17	54	74	-6.34	-20.83	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

## 5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

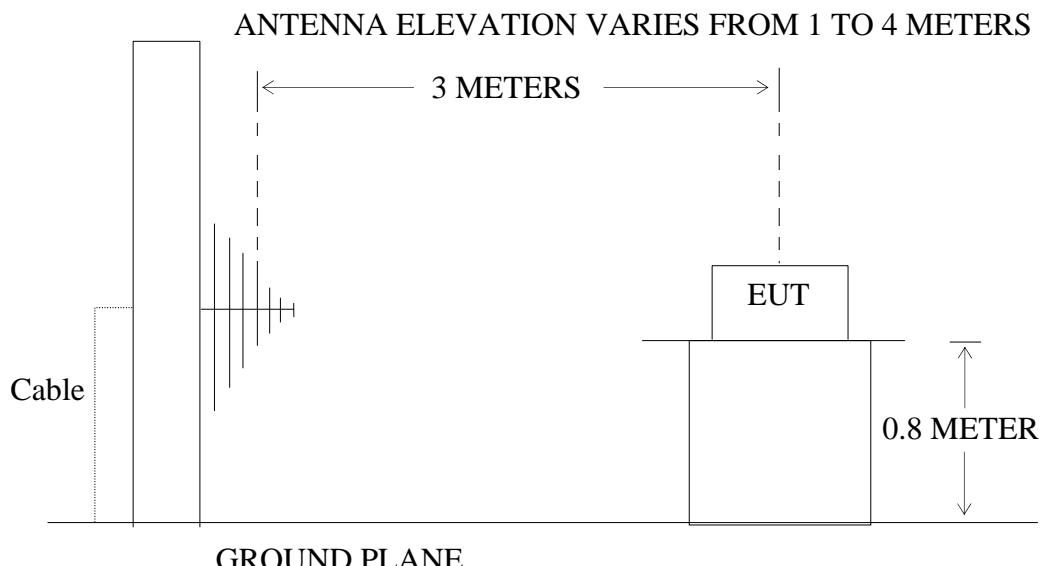
### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block diagram of connection between the EUT and simulators



(EUT: TRIUMPH BOARD Voting RF500)

#### 5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: TRIUMPH BOARD Voting RF500)

## 5.2.The Emission Limit For Section 15.249(d)

5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

### Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit		
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB $\mu$ V/m)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

## 5.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 5.3.1. TRIUMPH BOARD Voting RF500 (EUT)

Model Number : 8592580091100  
 Serial Number : N/A  
 Manufacturer : VOTEPLUS TECHNOLOGY LIMITED

## 5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2410-2446MHz MHz. We are select 2410MHz, 2426MHz, 2446MHz TX frequency to transmit.

## 5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

## 5.6.The Emission Measurement Result

**PASS.**

Date of Test:	August 15, 2011	Temperature:	25°C
EUT:	TRIUMPH BOARD Voting RF500	Humidity:	50%
Model No.:	8592580091100	Power Supply:	DC 6V
Test Mode:	TX 2410MHz	Test Engineer:	Pei

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>August 15, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>TRIUMPH BOARD Voting RF500</u>	Humidity:	<u>50%</u>
Model No.:	<u>8592580091100</u>	Power Supply:	<u>DC 6V</u>
Test Mode:	<u>TX 2426MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>August 15, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>TRIUMPH BOARD Voting RF500</u>	Humidity:	<u>50%</u>
Model No.:	<u>8592580091100</u>	Power Supply:	<u>DC 6V</u>
Test Mode:	<u>TX 2446MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result	Limit	Margin	Polarization
			(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

## 6. BAND EDGES

### 6.1. The Requirement

6.1.1. Band Edge from 2400MHz to 2483.5MHz. Emission 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 Section 15.209, whichever is the lesser attenuation.

### 6.2. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 6.2.1. TRIUMPH BOARD Voting RF500 (EUT)

Model Number	:	8592580091100
Serial Number	:	N/A
Manufacturer	:	VOTEPLUS TECHNOLOGY LIMITED

### 6.3. Operating Condition of EUT

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

6.3.2. Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2410-2446MHz MHz. We are select 2410MHz, 2446MHz TX frequency to transmit.

### 6.4. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was 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:  
RBW=1MHz, VBW=1MHz

## 6.5.The Measurement Result

**Pass.**

Date of Test:	August 15, 2011	Temperature:	25°C
EUT:	TRIUMPH BOARD Voting RF500	Humidity:	50%
Model No.:	8592580091100	Power Supply:	DC 6V
Test Mode:	TX 2410MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 15, 2011	Temperature:	25°C
EUT:	TRIUMPH BOARD Voting RF500	Humidity:	50%
Model No.:	8592580091100	Power Supply:	DC 6V
Test Mode:	TX 2446MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams in appendix I display the measurement of peak values.

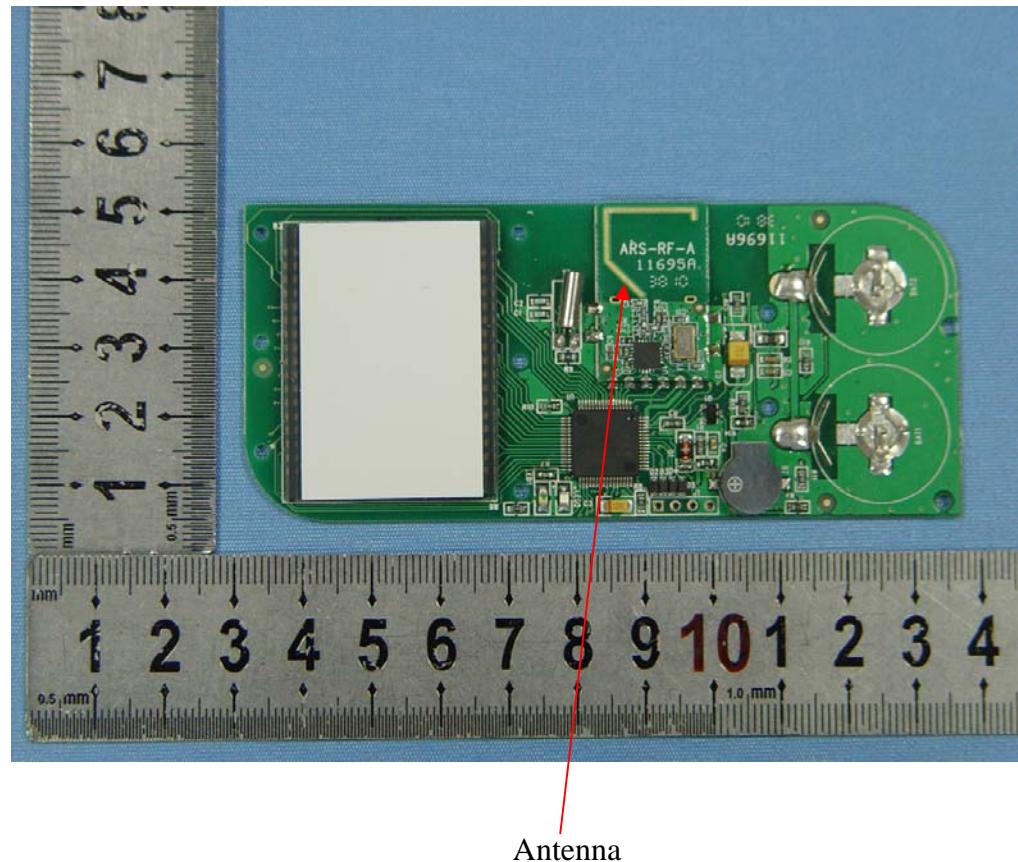
## 7. ANTENNA REQUIREMENT

### 7.1. The Requirement

7.1.1. According to Section 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.

### 7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.



## APPENDIX I (Test Curves)



## ACCURATE TECHNOLOGY CO., LTD.

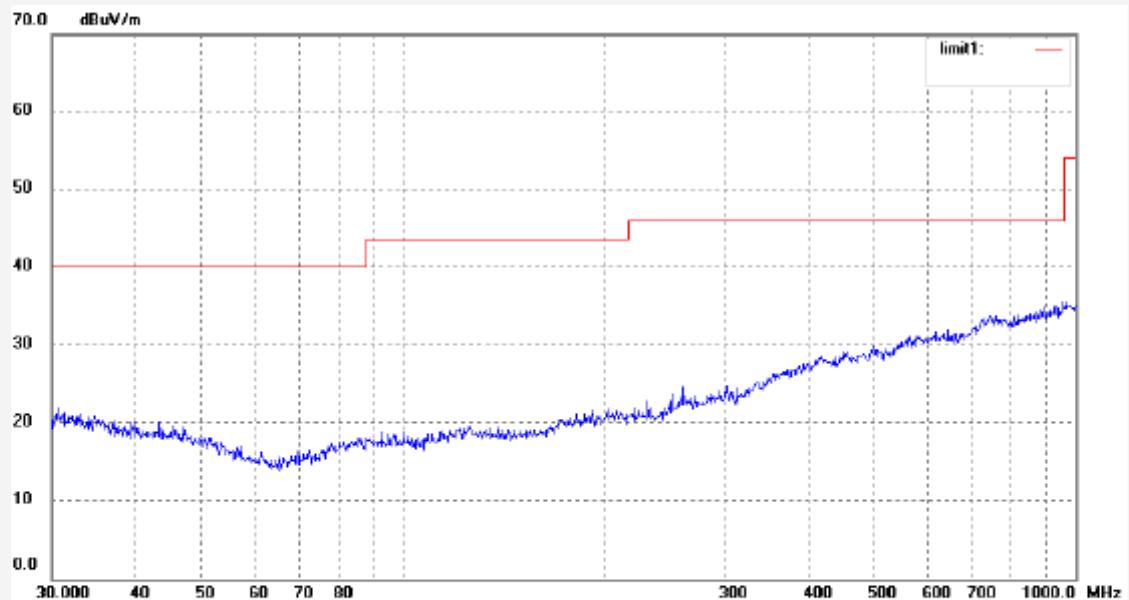
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4696	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 8:40:11
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

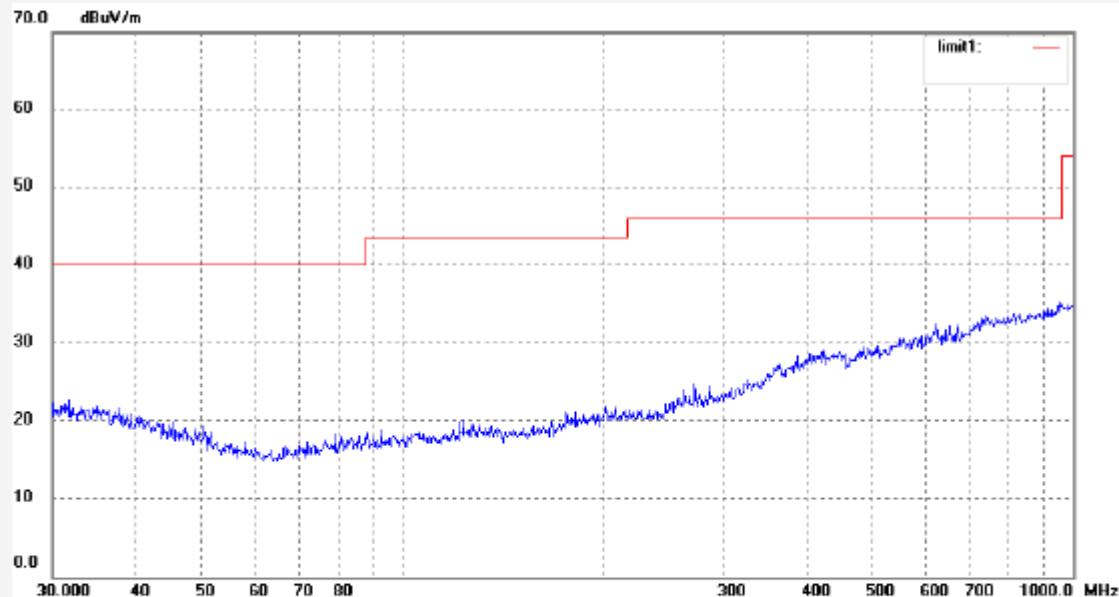


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4697	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 8:43:37
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4707

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2011/08/15

Temp. ( C)/Hum.(%) 25 C / 50 %

Time: 16:02:20

EUT: TRIUMPH BOARD Voting RF500

Engineer Signature: PEI

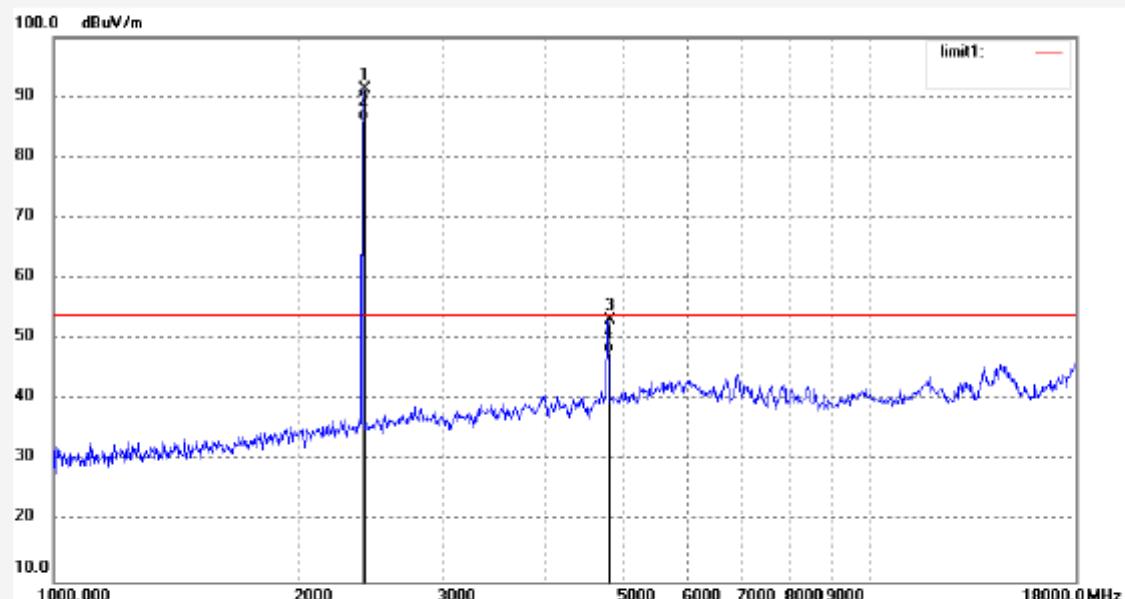
Mode: TX 2410MHz

Distance: 3m

Model: 8592580091100

Manufacturer: TRIUMPH BOARD a.s.

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2410.239	98.52	-7.43	91.09	114.00	-22.91	peak			
2	2410.239	93.47	-7.43	86.04	94.00	-7.96	AVG			
3	4820.502	53.25	-0.21	53.04	74.00	-20.96	peak			
4	4820.502	47.84	-0.21	47.63	54.00	-6.37	AVG			

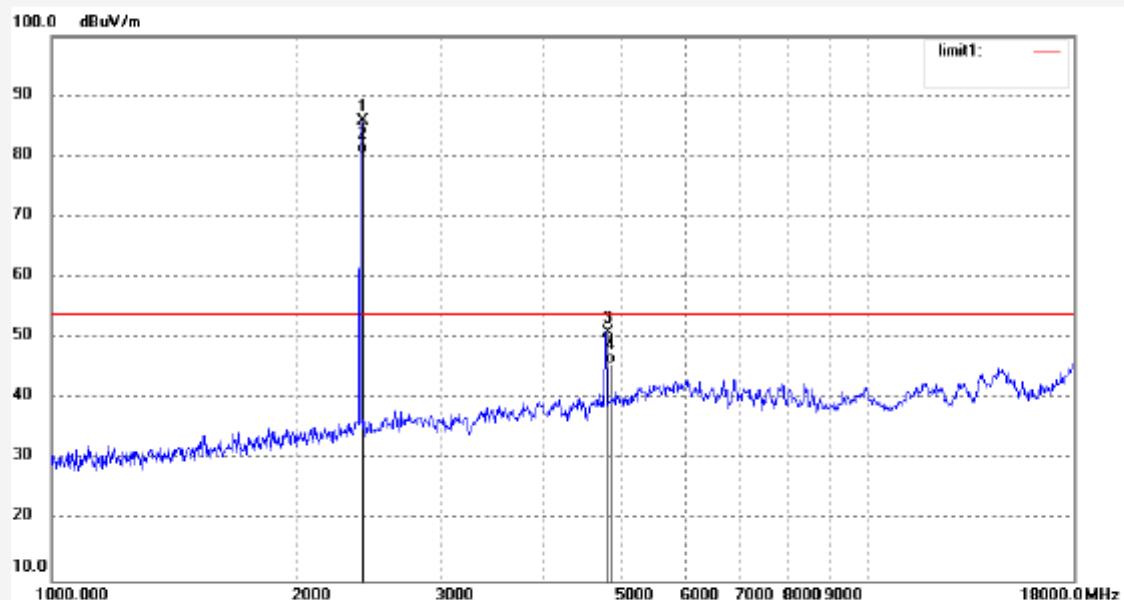


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4708	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 16:14:36
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2410.239	93.11	-7.43	85.68	114.00	-28.32	peak			
2	2410.239	87.69	-7.43	80.26	94.00	-13.74	AVG			
3	4820.502	51.14	-0.21	50.93	74.00	-23.07	peak			
4	4820.502	45.85	-0.21	45.64	54.00	-8.36	AVG			

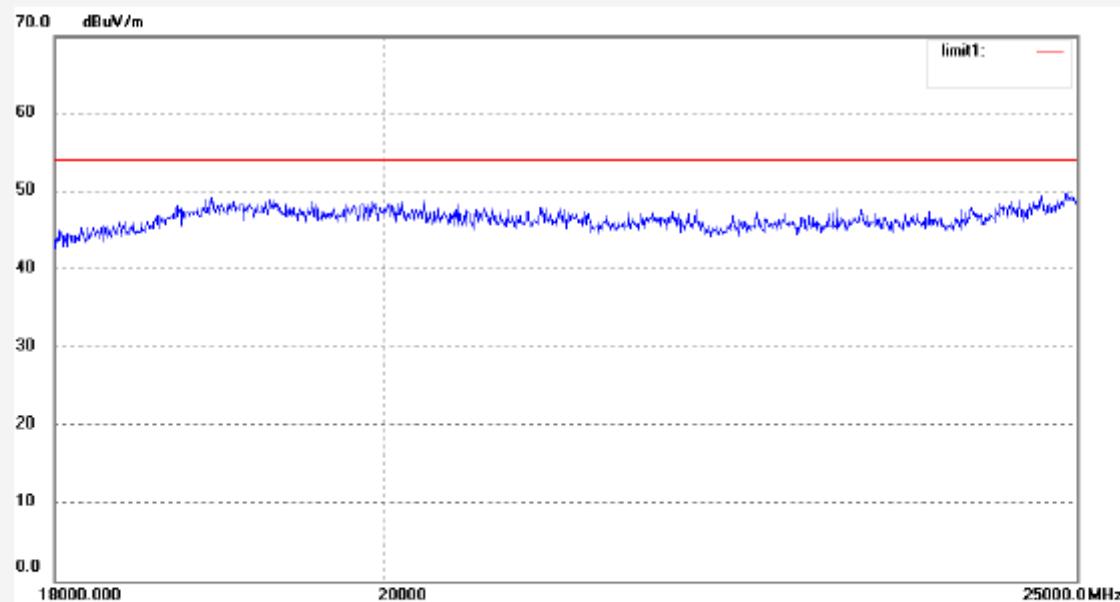


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4690	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 13:00:38
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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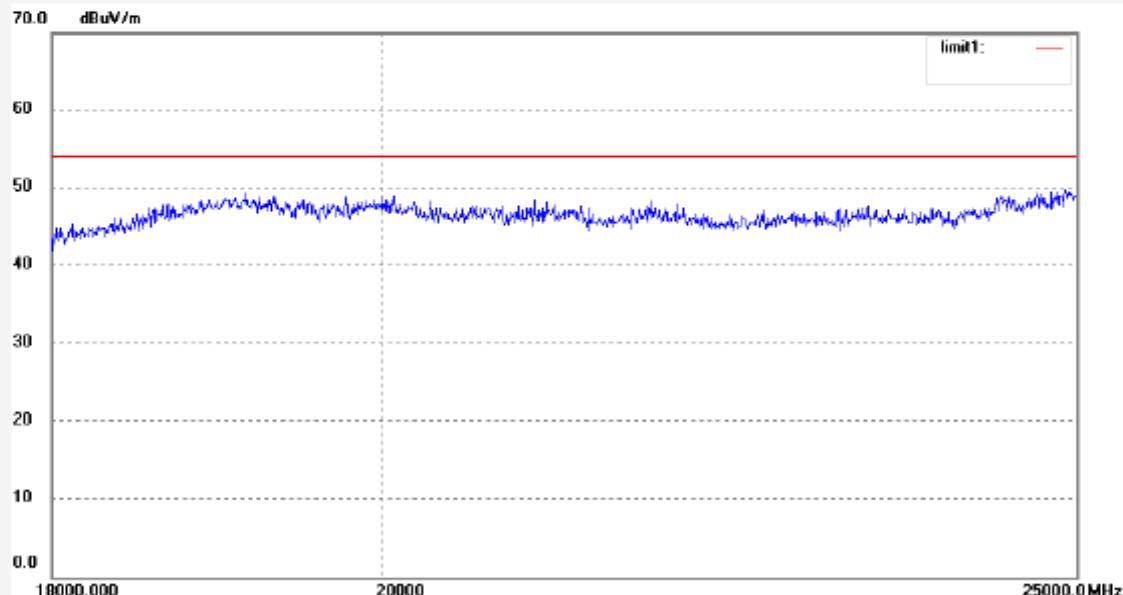
## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4691	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 13:04:27
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	

Note: Report No.:ATE20111676



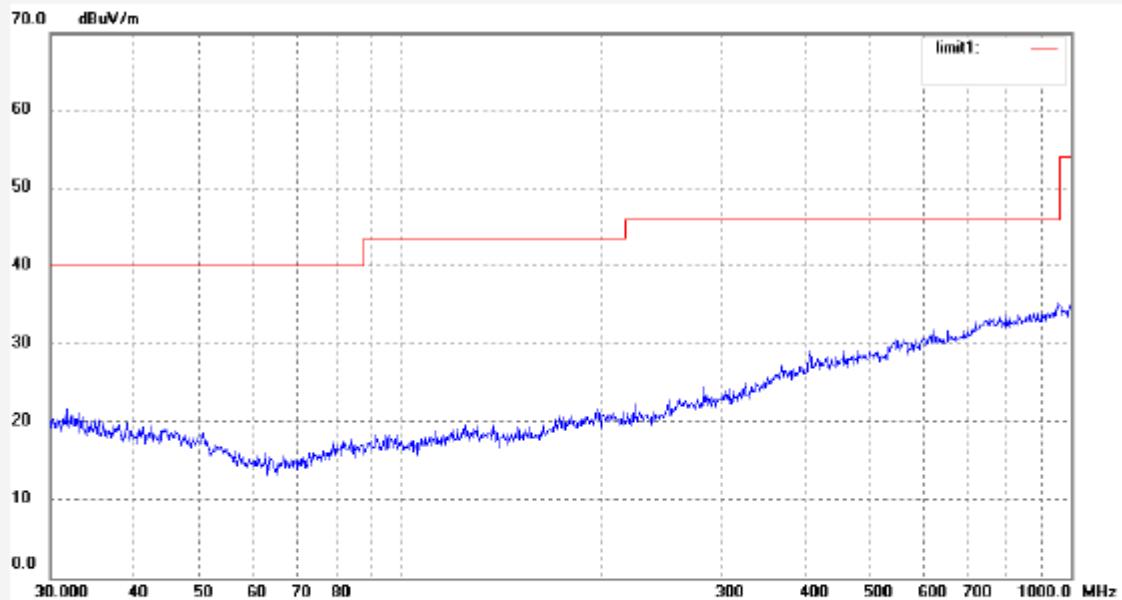
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4699      Polarization: Horizontal  
 Standard: FCC Class B 3M Radiated      Power Source: DC 6V  
 Test item: Radiation Test      Date: 2011/08/15  
 Temp.( C)/Hum.(%) 25 C / 50 %      Time: 8:51:15  
 EUT: TRIUMPH BOARD Voting RF500      Engineer Signature: PEI  
 Mode: TX 2426MHz      Distance: 3m  
 Model: 8592580091100  
 Manufacturer: TRIUMPH BOARD a.s.  
 Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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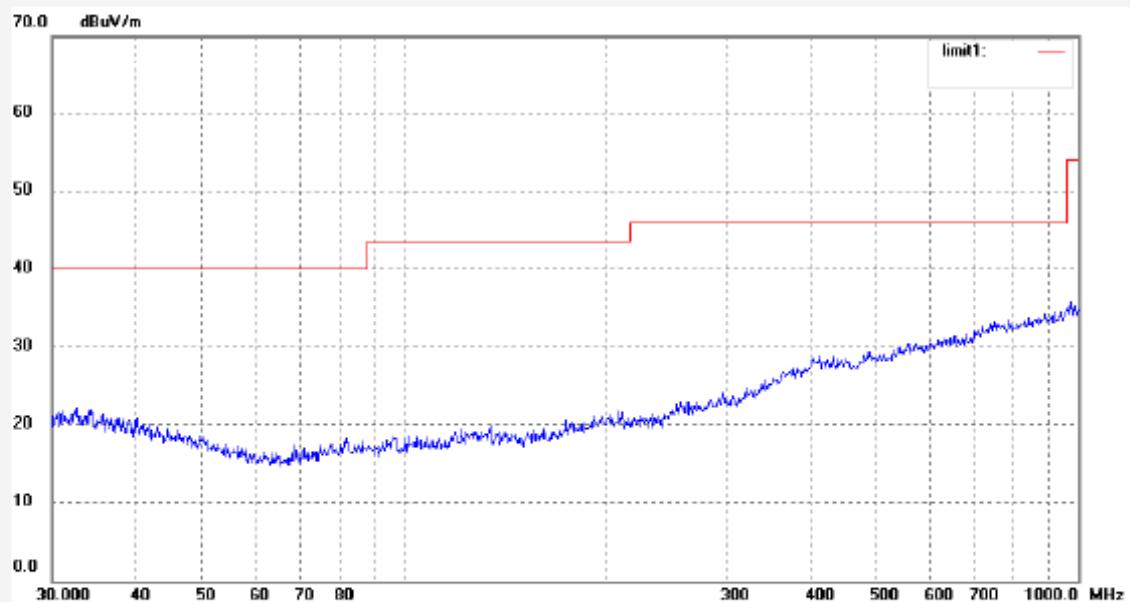
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4698	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 8:47:40
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2426MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

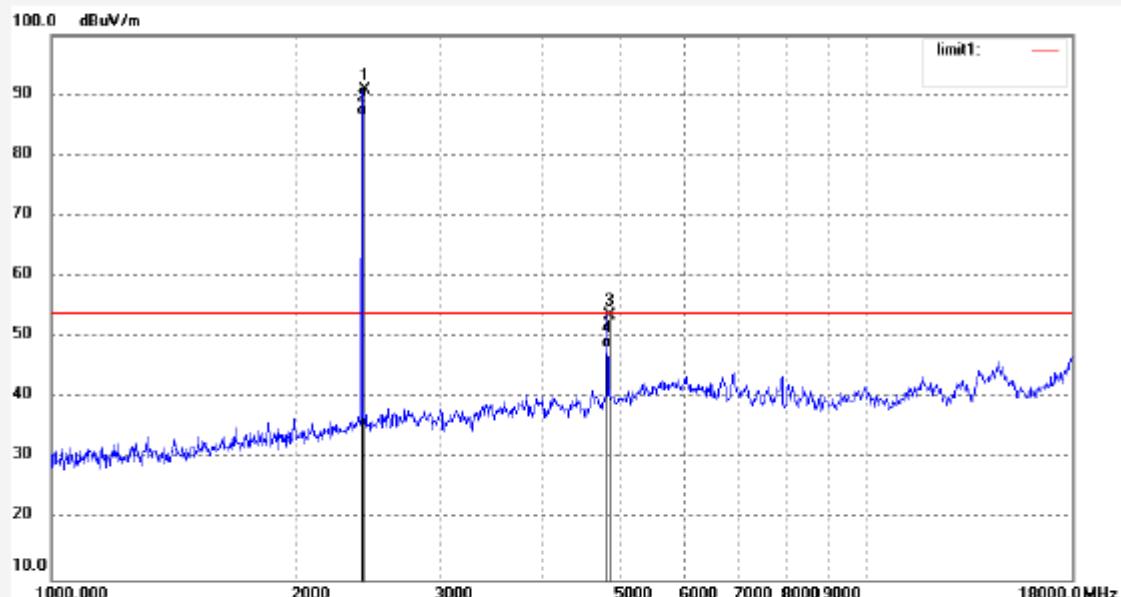


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4710      Polarization: Horizontal  
 Standard: FCC Class B 3M Radiated      Power Source: DC 6V  
 Test item: Radiation Test      Date: 2011/08/15  
 Temp. ( C )/Hum.(%) 25 C / 50 %      Time: 16:33:59  
 EUT: TRIUMPH BOARD Voting RF500      Engineer Signature: PEI  
 Mode: TX 2426MHz      Distance: 3m  
 Model: 8592580091100  
 Manufacturer: TRIUMPH BOARD a.s.

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2426.240	98.15	-7.39	90.76	114.00	-23.24	peak			
2	2426.240	93.70	-7.39	86.31	94.00	-7.69	AVG			
3	4852.489	53.58	-0.03	53.55	74.00	-20.45	peak			
4	4852.489	48.12	-0.03	48.09	54.00	-5.91	AVG			

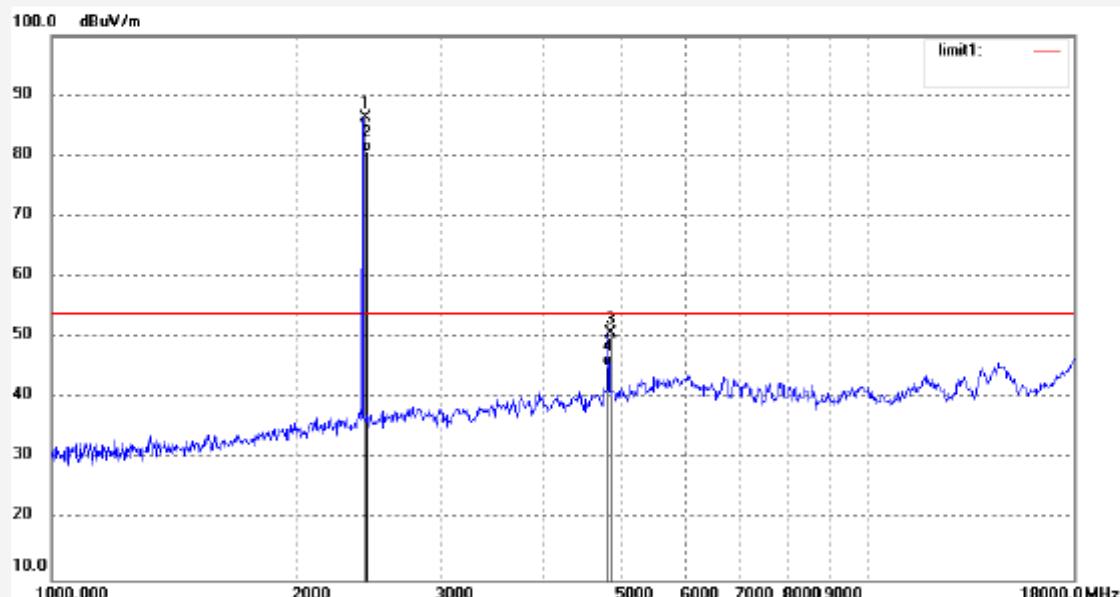


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4709	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 16:22:45
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2426MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2426.240	93.60	-7.39	86.21	114.00	-27.79	peak			
2	2426.240	87.93	-7.39	80.54	94.00	-13.46	AVG			
3	4852.489	50.62	-0.03	50.59	74.00	-23.41	peak			
4	4852.489	45.16	-0.03	45.13	54.00	-8.87	AVG			

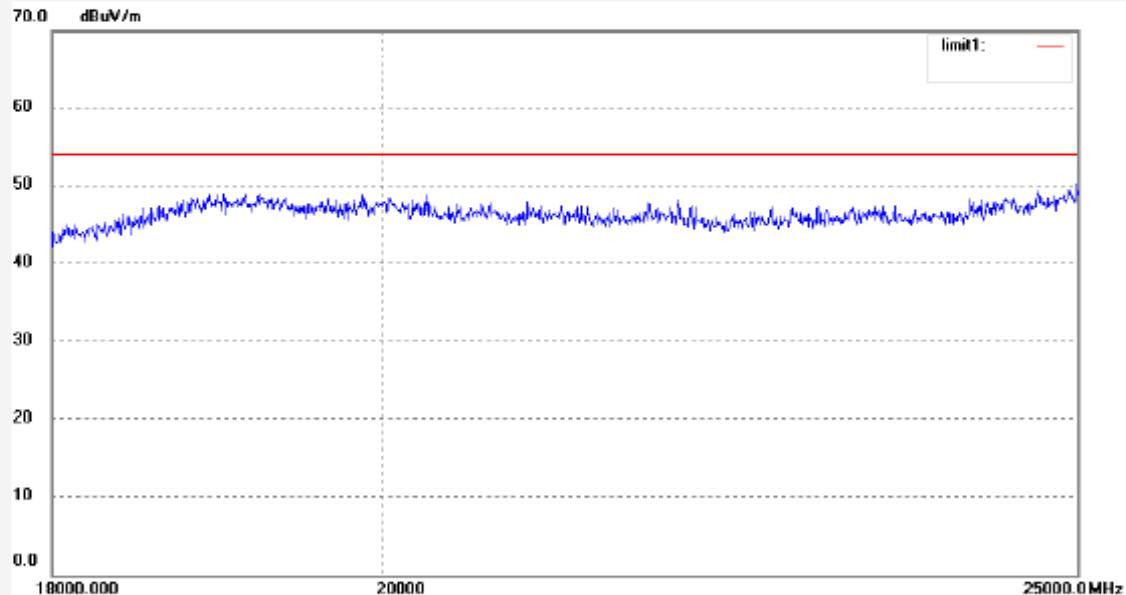


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4693	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 13:12:19
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2426MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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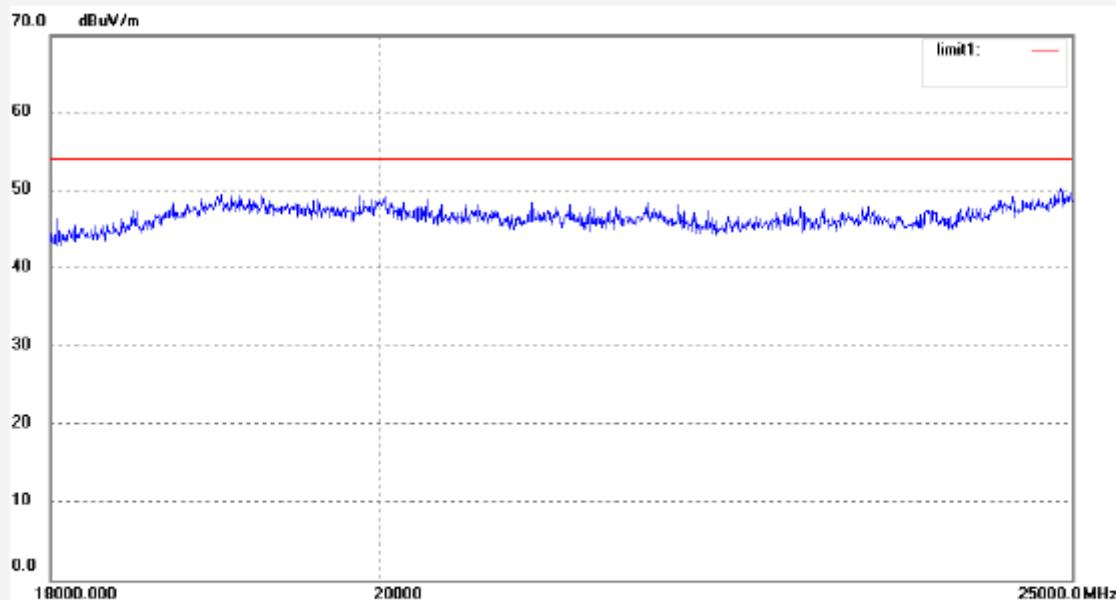


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4692	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 13:08:41
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2426MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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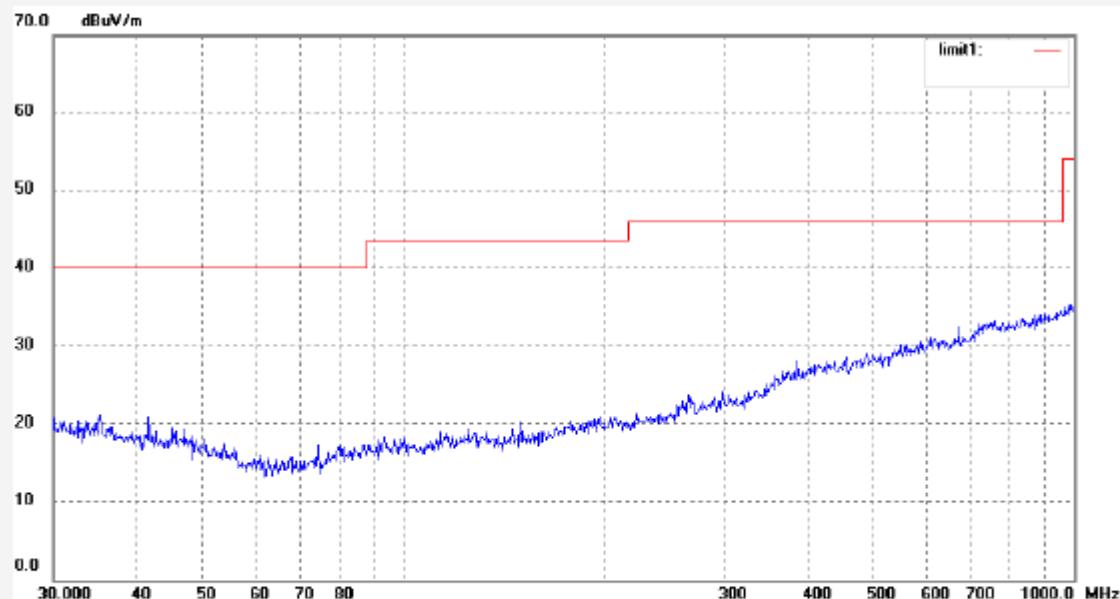
## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4700	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 8:55:21
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2446MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	pei #4701	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	DC 6V							
Test item:	Radiation Test	Date:	2011/08/15							
Temp. ( C)/Hum.(%)	25 C / 50 %	Time:	8:58:30							
EUT:	TRIUMPH BOARD Voting RF500	Engineer Signature:	PEI							
Mode:	TX 2446MHz	Distance:	3m							
Model:	8592580091100									
Manufacturer:	TRIUMPH BOARD a.s.									
Note:	Report No.:ATE20111676									
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



## ACCURATE TECHNOLOGY CO., LTD.

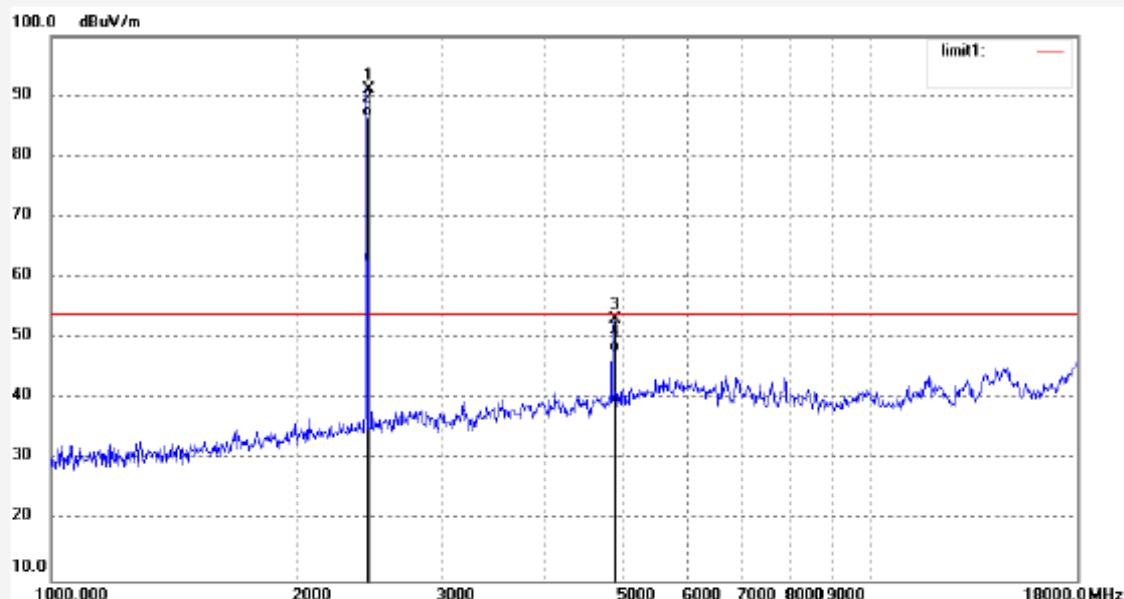
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4711	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 16:41:09
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2446MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2446.242	98.15	-7.34	90.81	114.00	-23.19	peak			
2	2446.242	93.71	-7.34	86.37	94.00	-7.63	AVG			
3	4892.495	52.97	0.20	53.17	74.00	-20.83	peak			
4	4892.495	47.46	0.20	47.66	54.00	-6.34	AVG			



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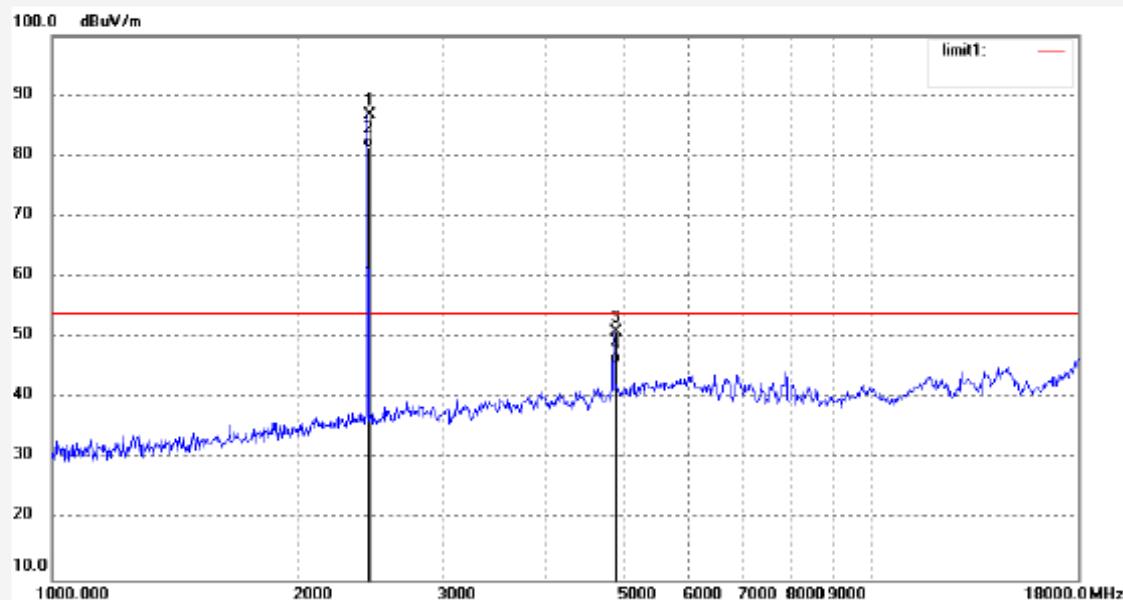
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4712      Polarization: Vertical  
 Standard: FCC Class B 3M Radiated      Power Source: DC 6V  
 Test item: Radiation Test      Date: 2011/08/15  
 Temp.( C)/Hum.(%) 25 C / 50 %      Time: 16:49:32  
 EUT: TRIUMPH BOARD Voting RF500      Engineer Signature: PEI  
 Mode: TX 2446MHz      Distance: 3m  
 Model: 8592580091100  
 Manufacturer: TRIUMPH BOARD a.s.  
 Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2446.242	94.03	-7.34	86.69	114.00	-27.31	peak			
2	2446.242	88.52	-7.34	81.18	94.00	-18.82	AVG			
3	4892.495	50.64	0.20	50.84	74.00	-23.16	peak			
4	4892.495	45.42	0.20	45.62	54.00	-8.38	AVG			



## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4694

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 6V

Test item: Radiation Test

Date: 2011/08/15

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 13:16:35

EUT: TRIUMPH BOARD Voting RF500

Engineer Signature: PEI

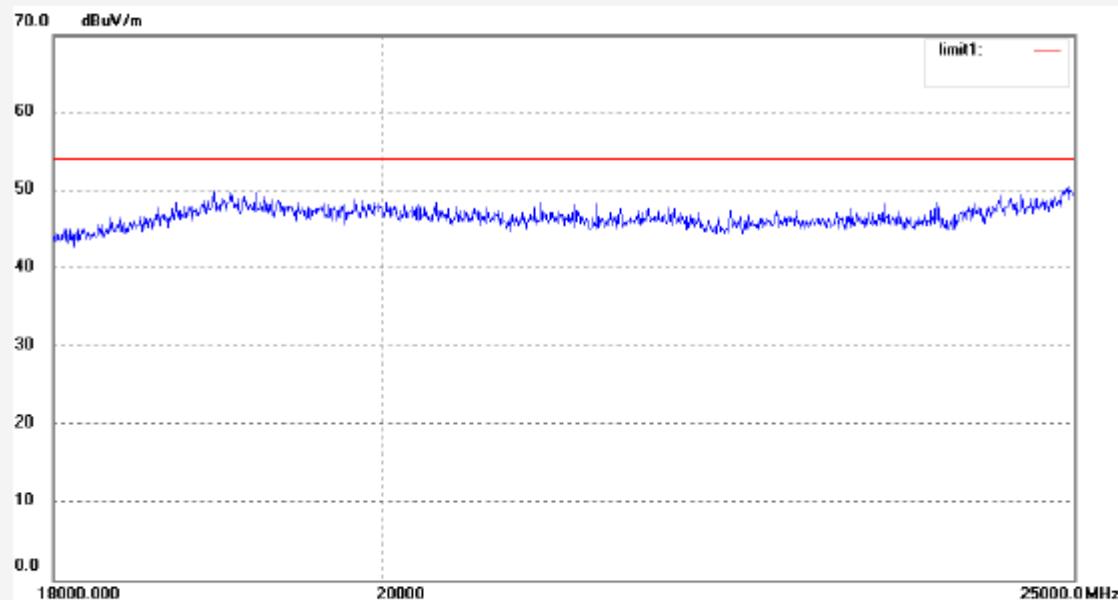
Mode: TX 2446MHz

Distance: 3m

Model: 8592580091100

Manufacturer: TRIUMPH BOARD a.s.

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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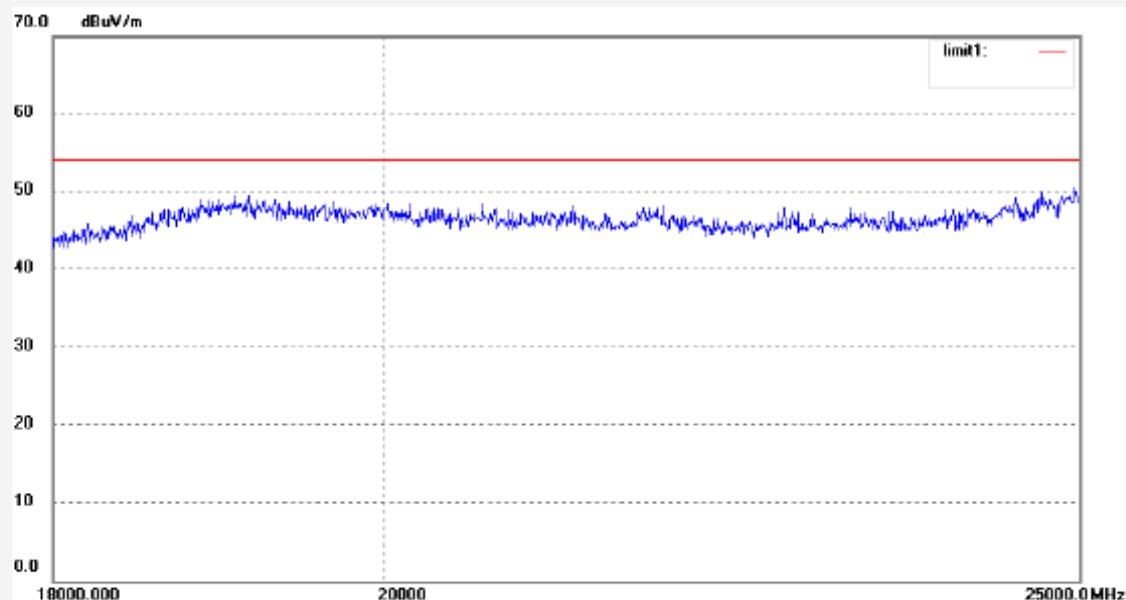
## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4695	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 13:20:07
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2446MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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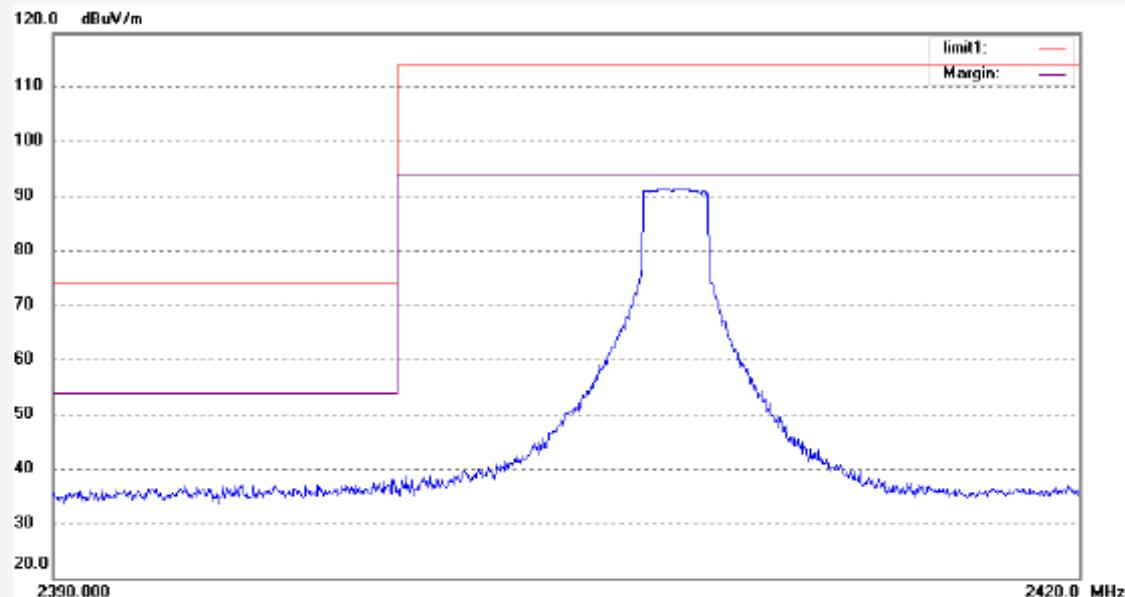
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4703	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/0815
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 14:23:35
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2410MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



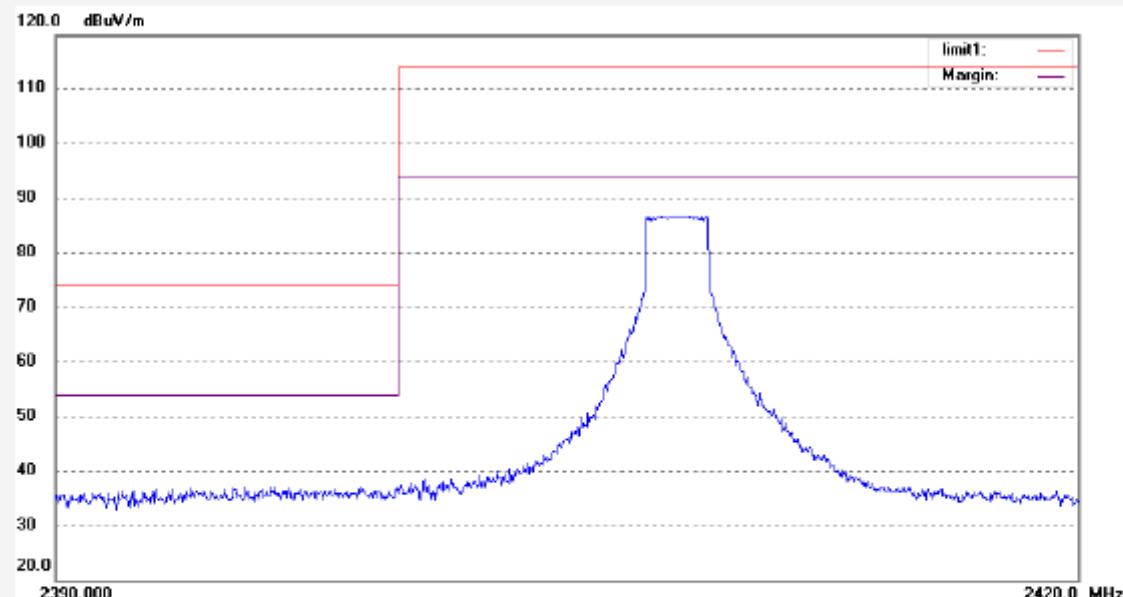
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: pei #4704  
 Standard: FCC Part 15 PEAK 2.4G  
 Test item: Radiation Test  
 Temp. ( C )/Hum.(%) 25 C / 50 %  
 EUT: TRIUMPH BOARD Voting RF500  
 Mode: TX 2410MHz  
 Model: 8592580091100  
 Manufacturer: TRIUMPH BOARD a.s.

Polarization: Vertical  
 Power Source: DC 6V  
 Date: 2011/08/15  
 Time: 14:32:50  
 Engineer Signature: PEI  
 Distance: 3m

Note: Report No.:ATE20111676



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #4706	Polarization: Horizontal									
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 6V									
Test item: Radiation Test	Date: 2011/08/15									
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 14:49:39									
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI									
Mode: TX 2446MHz	Distance: 3m									
Model: 8592580091100										
Manufacturer: TRIUMPH BOARD a.s.										
Note: Report No.:ATE20111676										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

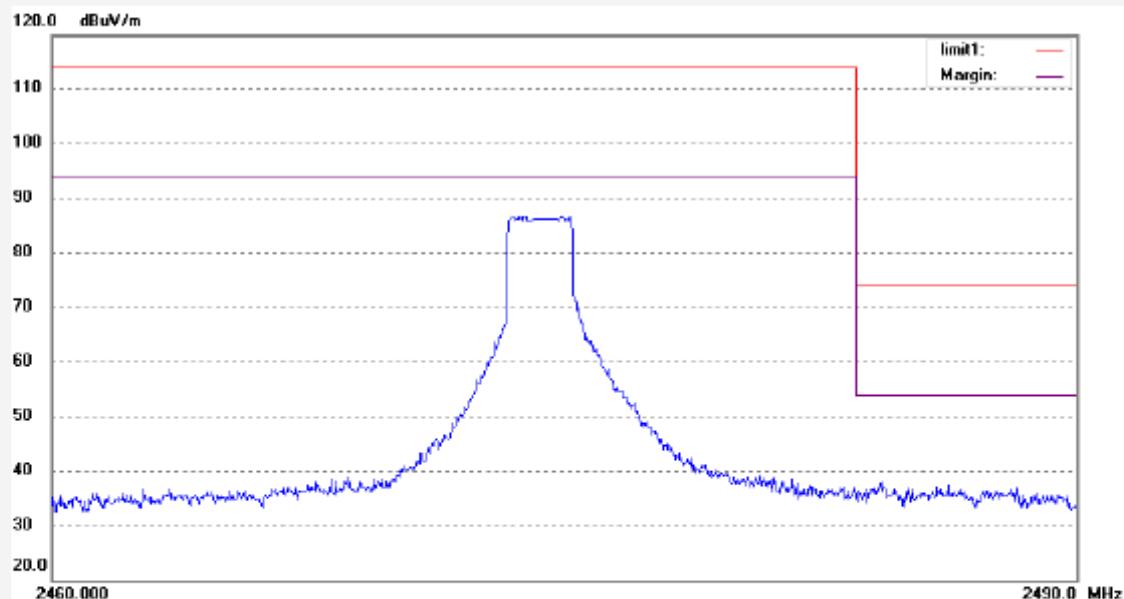


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Job No.: pei #4705	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: DC 6V
Test item: Radiation Test	Date: 2011/08/15
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 14:41:28
EUT: TRIUMPH BOARD Voting RF500	Engineer Signature: PEI
Mode: TX 2446MHz	Distance: 3m
Model: 8592580091100	
Manufacturer: TRIUMPH BOARD a.s.	
Note: Report No.:ATE20111676	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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