FCC CERTIFICATION
On Behalf of
HYGINEX

BEACON
Model No.: BEC-000-01

FCC ID: SEOHY-BEC001

Prepared for	:	HYGINEX
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Prepared by	:	ACCURATE TECHNOLOGY CO. LTD
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Report Number	:	ATE20122104
Date of Test	:	Feb 15, 2013
Date of Report	:	Feb 16 , 2013

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APPENDIX I (TEST CURVES) (28 pages)

Test Report Certification

Applicant	:	HYGINEX
Manufacturer	:	Exploit Innovation Limited
EUT Description	:	BEACON
		(A) MODEL NO.: BEC-000-01
		(B) Trade Name.: N/A
		(C) POWER SUPPLY: DC 4.5V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.4: 2009

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 Section15.249 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 : Feb 15 , 2013

Prepared by :

Terry. Yang

(Engineer)

Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	BEACON
Model Number	:	BEC-000-01
Power Supply	:	DC 4.5V
Modulation type		GFSK
Operate Frequency	:	2412-2480 MHz
Applicant	:	HYGINEX
Address	:	18 shenkar St., First Floor, P.O. Box 12317, HERZLIYA
Manufacturer	:	Exploit Innovation Limited
Address	:	RM2901, Wen Jin South Road, Zhong Shang Da Sha, Luo Hu, Shenzhen, China
Date of sample received	:	Jan 30, 2013
Date of Test	:	Feb 15, 2013

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. 12, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 12, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Oct. 30, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2014

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”.

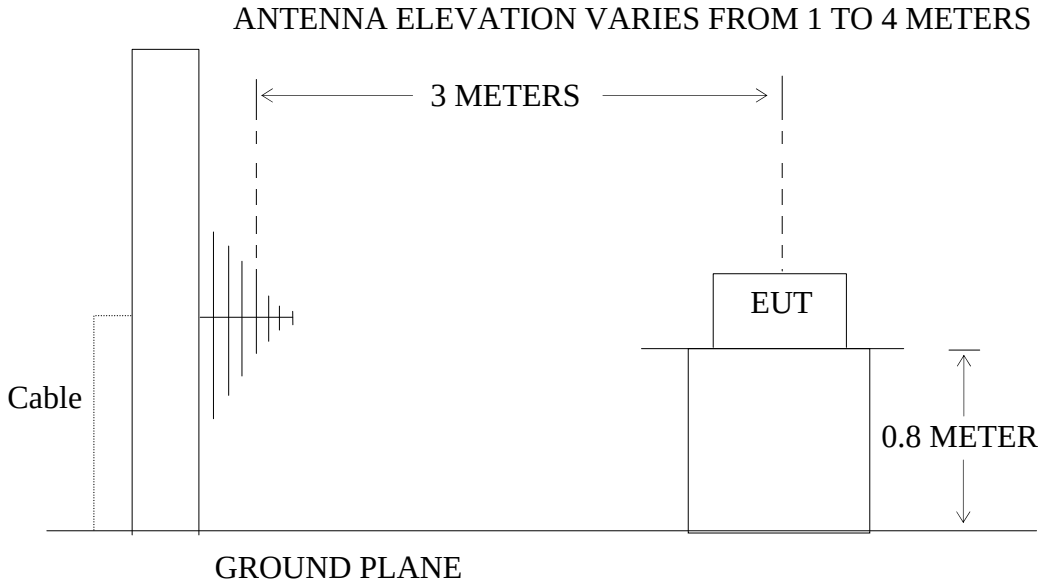
4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

(EUT: BEACON)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: BEACON)

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 dBμV/m and the harmonics shall not exceed 54 dBμV/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. BEACON (EUT)

Model Number : BEC-000-01
Serial Number : N/A
Manufacturer : Exploit Innovation 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 2412 - 2480 MHz MHz. We are select 2412 MHz, 2446MHz, and 2480 MHz 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120 kHz 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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2412MHz	Test Engineer:	Allen

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2412.000	91.45	94.72	-7.49	83.96	87.23	94	114	-10.04	-26.77	Vertical
2412.000	87.68	90.55	-7.49	80.19	83.06	94	114	-13.81	-30.96	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4824.000	47.63	52.27	-0.55	47.08	51.72	54	74	-6.92	-22.28	Vertical
4824.000	47.25	51.71	-0.55	46.70	51.15	54	74	-7.30	-22.84	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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2446MHz	Test Engineer:	Allen

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2446.000	84.68	90.55	-7.40	80.28	83.15	94	114	-30.85	-13.72	Vertical
2446.000	90.01	92.09	-7.40	82.61	84.69	94	114	-11.39	-29.31	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4892.000	46.12	50.67	-0.15	45.97	50.52	54	74	-8.03	-23.48	Vertical
4892.000	47.65	52.29	-0.15	47.50	52.14	54	74	-6.50	-21.86	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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2480MHz	Test Engineer:	Allen

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2480.000	88.36	90.98	-7.33	81.03	83.65	94	114	-12.97	-30.35	Vertical
2480.000	87.36	90.30	-7.33	80.03	82.97	94	114	-13.97	-31.03	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4960.000	46.03	50.23	0.30	46.33	50.53	54	74	-7.67	-23.47	Vertical
4960.000	43.04	47.04	0.30	43.34	47.34	54	74	-10.66	-26.66	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.

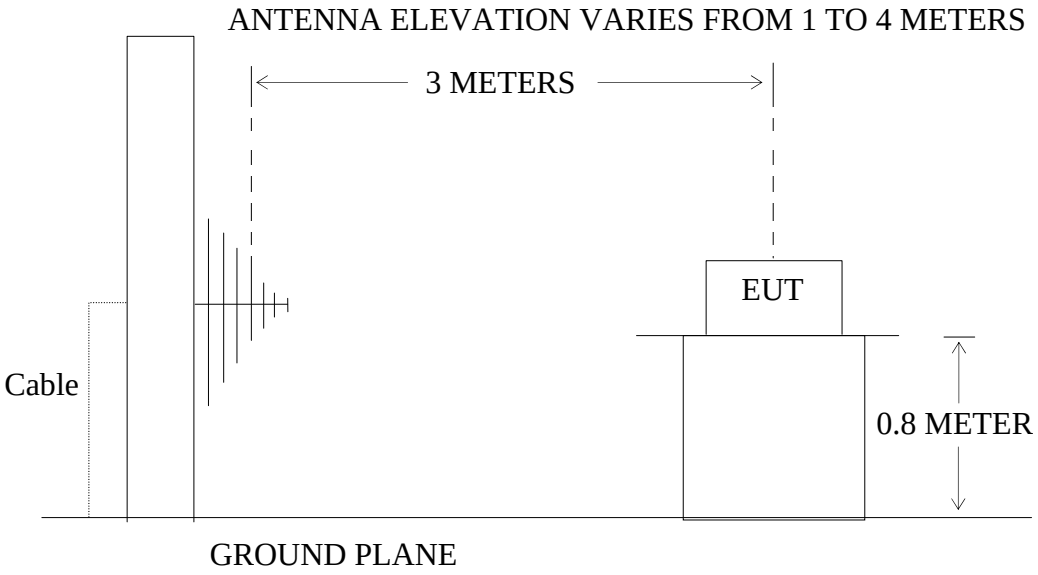
5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators

(EUT: BEACON)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: BEACON)

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 (dBμV/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. BEACON (EUT)

Model Number : BEC-000-01
Serial Number : N/A
Manufacturer : Exploit Innovation 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 2412 - 2480 MHz. We are select 2412MHz, 2446MHz, and 2480MHz 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

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

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

The final measurement in band 9-90 kHz, 110-490 kHz 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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2412MHz	Test Engineer:	Allen

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
---	---	---	---	---	---	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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2446MHz	Test Engineer:	Allen

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
---	---	---	---	---	---	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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2480MHz	Test Engineer:	Allen

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
---	---	---	---	---	---	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. BEACON (EUT)

Model Number	:	BEC-000-01
Serial Number	:	N/A
Manufacturer	:	Exploit Innovation 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 2412-2480 MHz. We are select 2412MHz, 2480MHz 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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2412MHz	Test Engineer:	Allen

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2396.850	42.01	51.83	-7.48	34.53	44.35	54	74	-19.47	-29.65	Vertical
2400.000	39.36	42.98	-7.46	31.90	35.52	54	74	-22.10	-38.48	Vertical
2398.405	45.21	52.51	-7.47	37.74	45.04	54	74	-16.26	-28.96	Horizontal
2400.000	45.36	50.66	-7.46	37.90	43.20	54	74	-16.10	-30.80	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:	Feb 15, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX 2480 MHz	Test Engineer:	Allen

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	46.31	52.41	-7.37	38.94	45.04	54	74	-15.06	-28.96	Vertical
2485.456	50.32	57.58	-7.38	42.94	50.20	54	74	-11.06	-23.80	Vertical
2483.500	46.10	51.20	-7.37	38.73	43.83	54	74	-15.27	-30.17	Horizontal
2484.533	50.01	59.63	-7.38	42.63	52.25	54	74	-11.37	-21.75	Horizontal

Note:

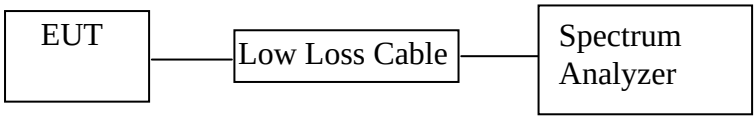
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is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

7.1.Block Diagram of Test Setup



(EUT: BEACON)

7.2.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.

7.2.1.BEACON (EUT)

Model Number	:	BEC-000-01
Serial Number	:	N/A
Manufacturer	:	Exploit Innovation Limited

7.3.Operating Condition of EUT

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

7.3.2.Turn on the power of all equipment.

7.3.3.Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2412-2480MHz. We select 2412MHz, 2446MHz, and 2480MHz TX frequency to transmit.

7.4. Test Procedure

7.4.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.4.2. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.

7.4.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

7.5. Test Result

PASS.

Date of Test:	April 17, 2013	Temperature:	25°C
EUT:	BEACON	Humidity:	50%
Model No.:	BEC-000-01	Power Supply:	DC 4.5V
Test Mode:	TX	Test Engineer:	Alen

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2412	1.164	---
Middle	2446	1.164	---
High	2480	1.164	---

The spectrum analyzer plots are attached as below.

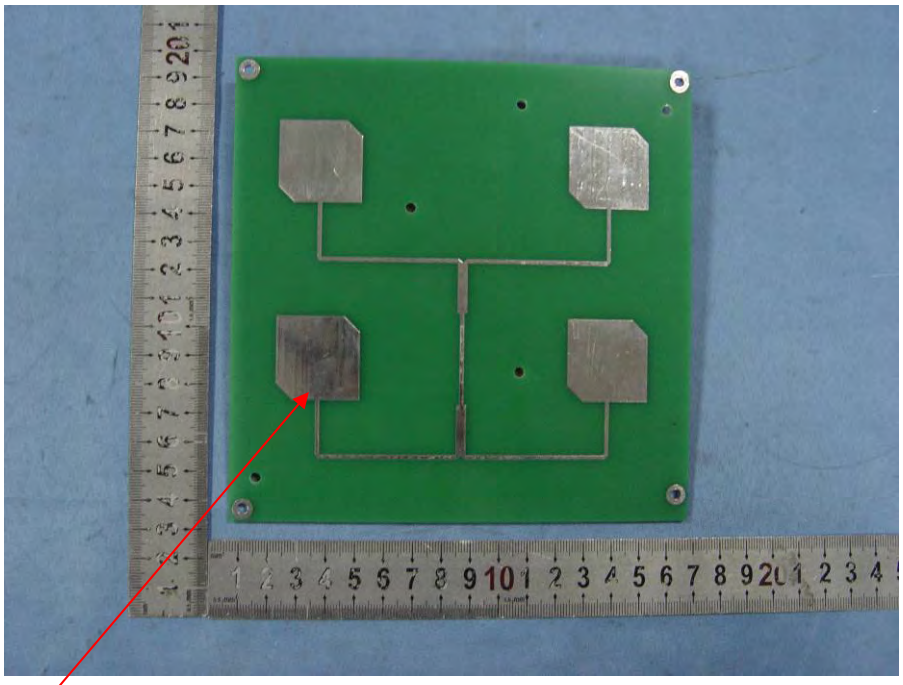
8. ANTENNA REQUIREMENT

8.1. The Requirement

8.1.1. 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.

8.2. Antenna Construction

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



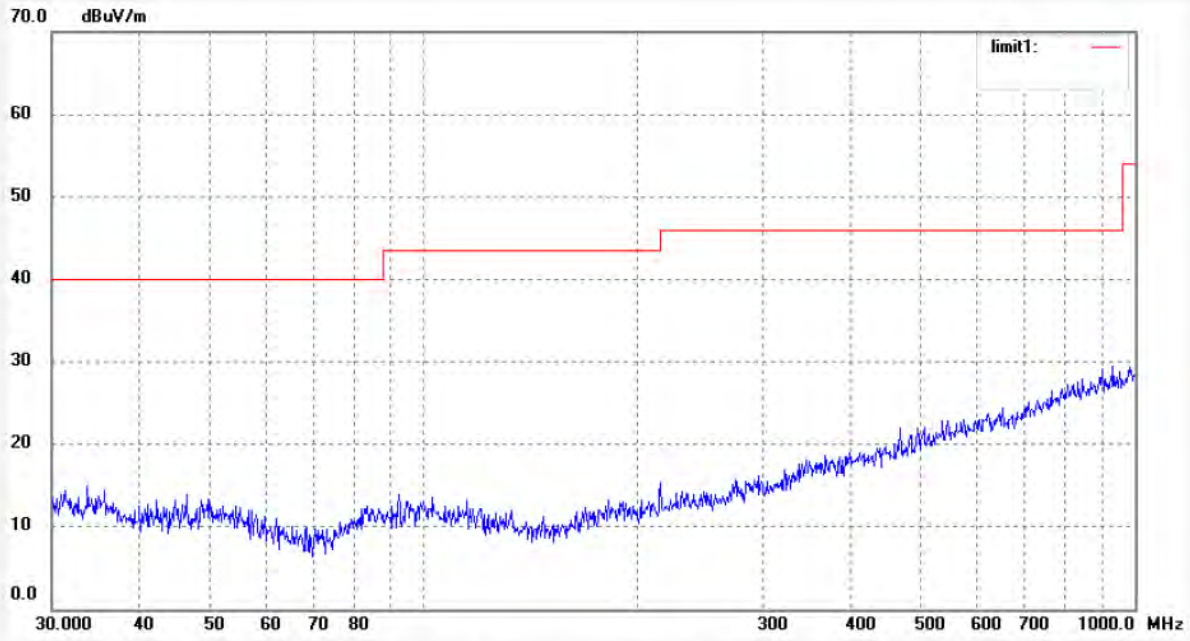
Antenna

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: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #872	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/52/31
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

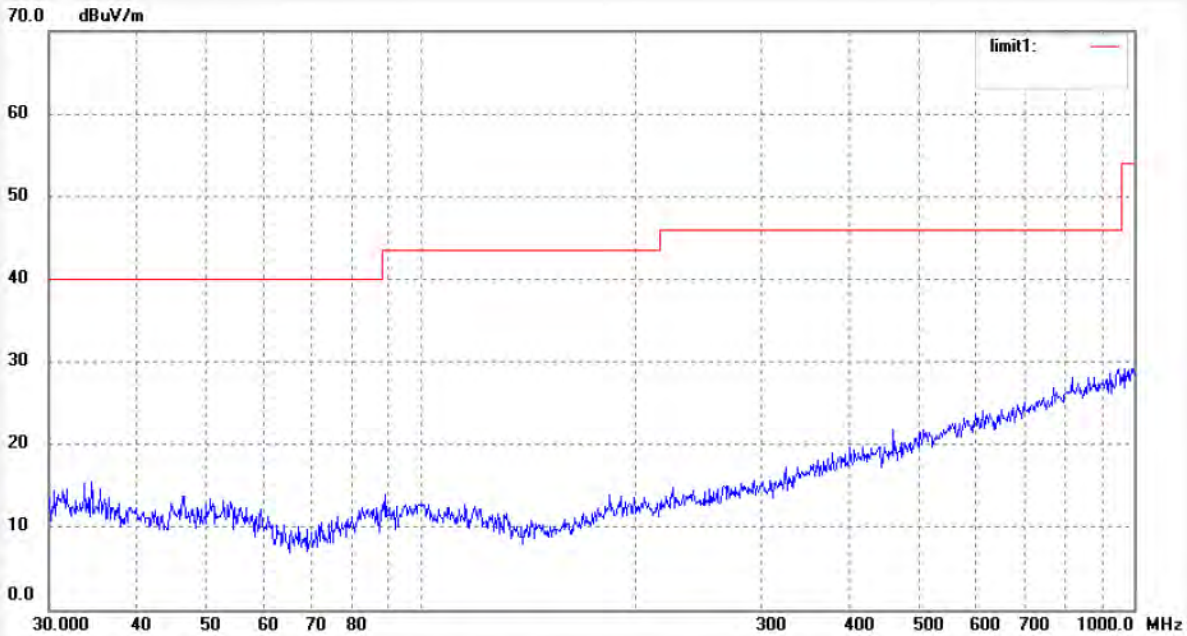


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #873	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/53/14
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104



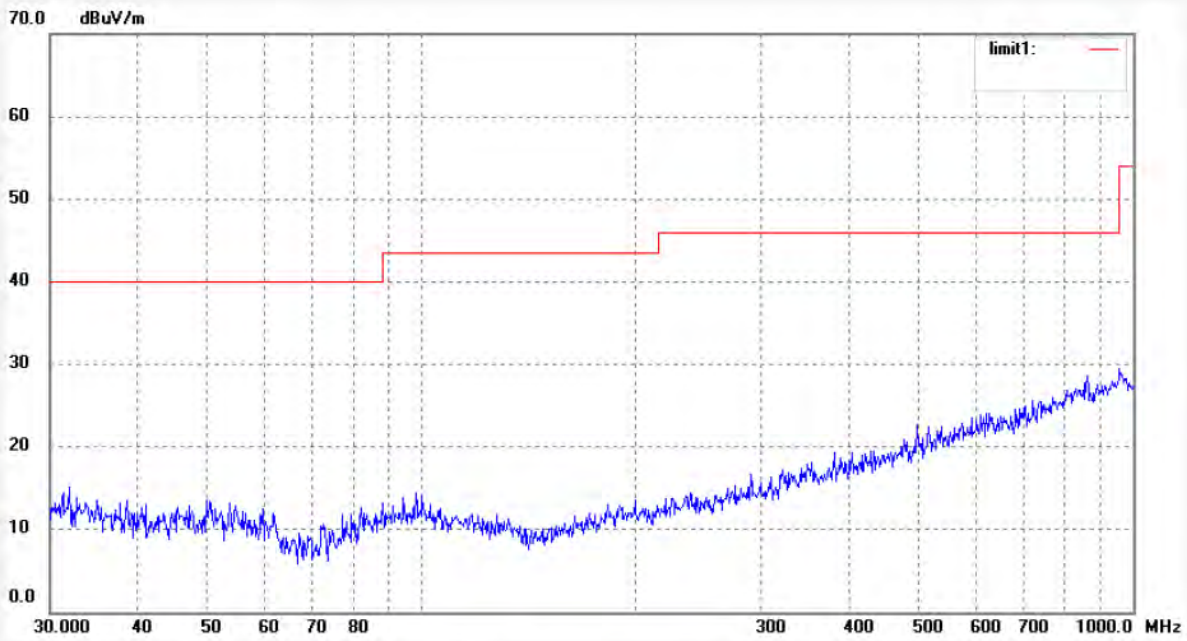
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #874	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/53/31
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104



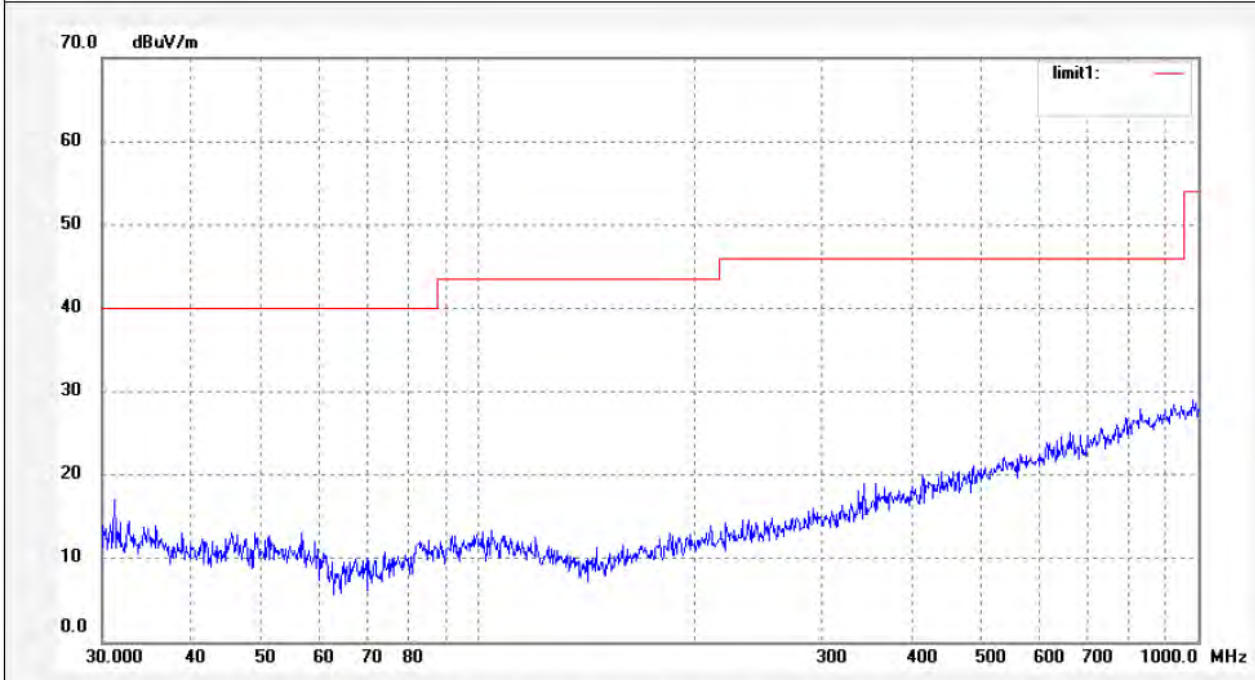
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #875	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/54/02
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

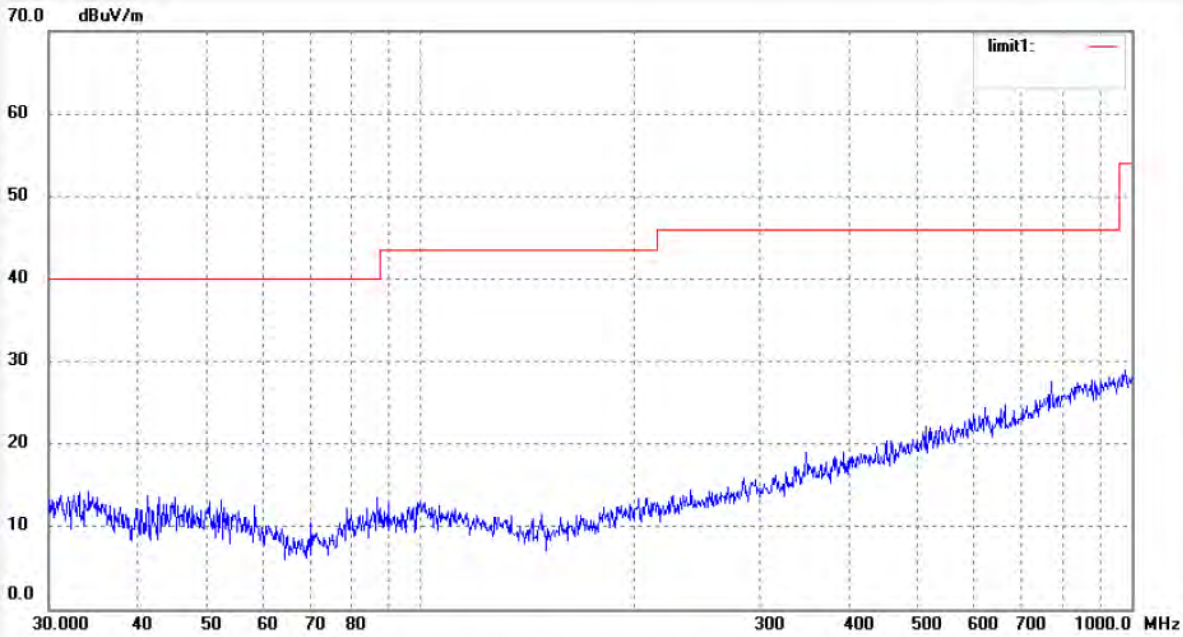


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #876	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/54/15
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

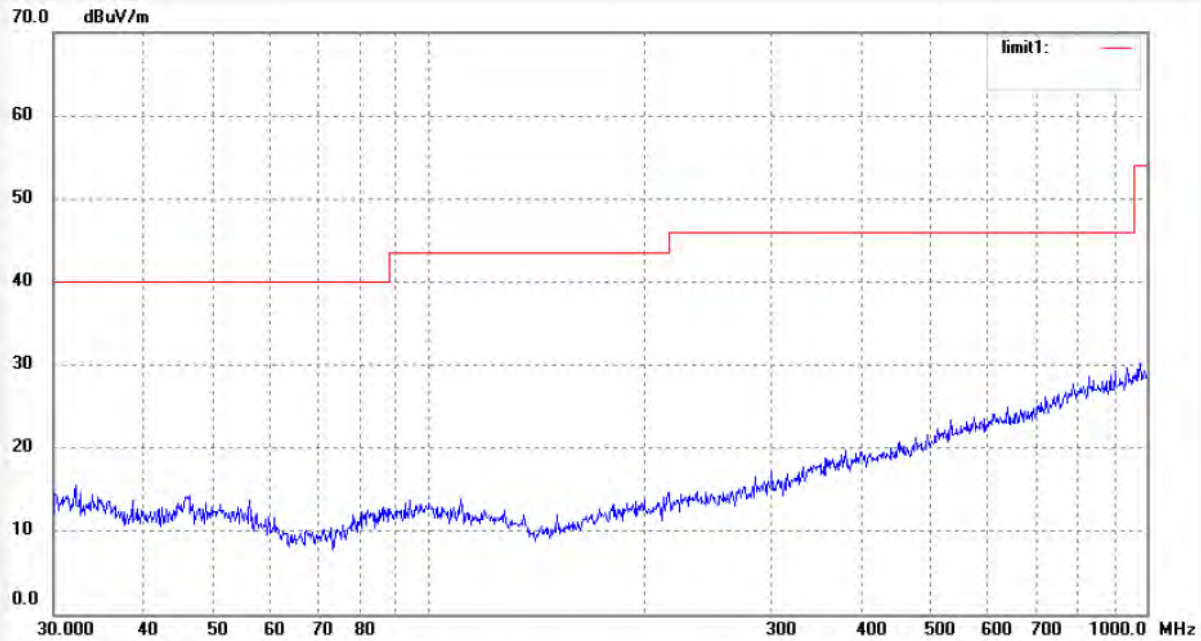


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #877	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/55/32
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

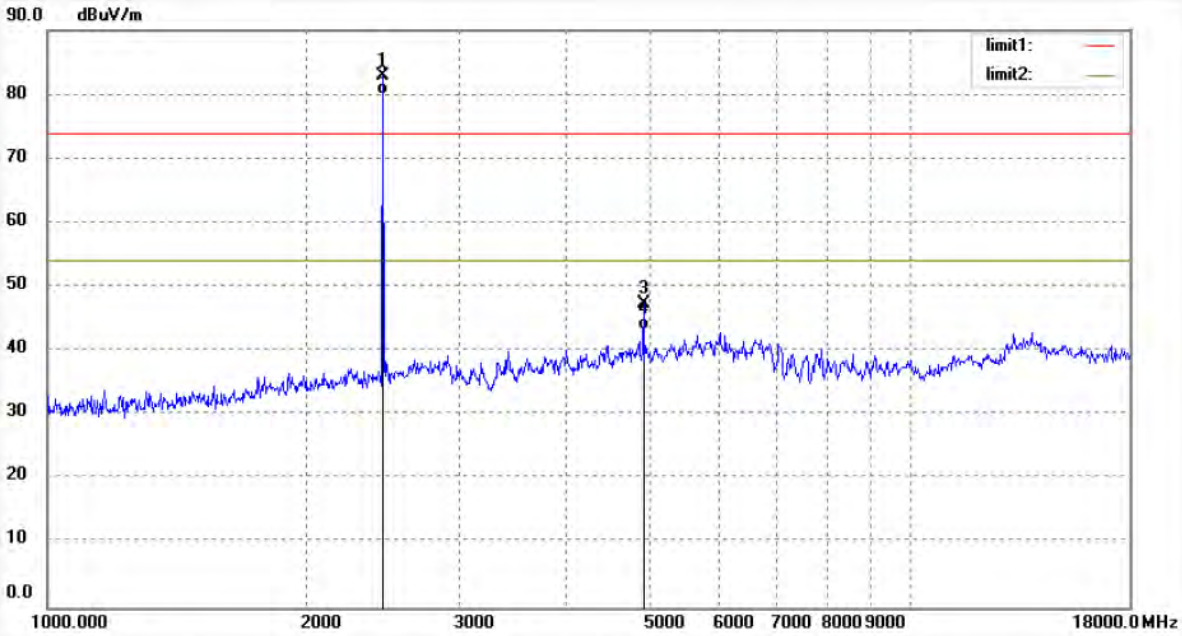


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #862	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/34/48
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

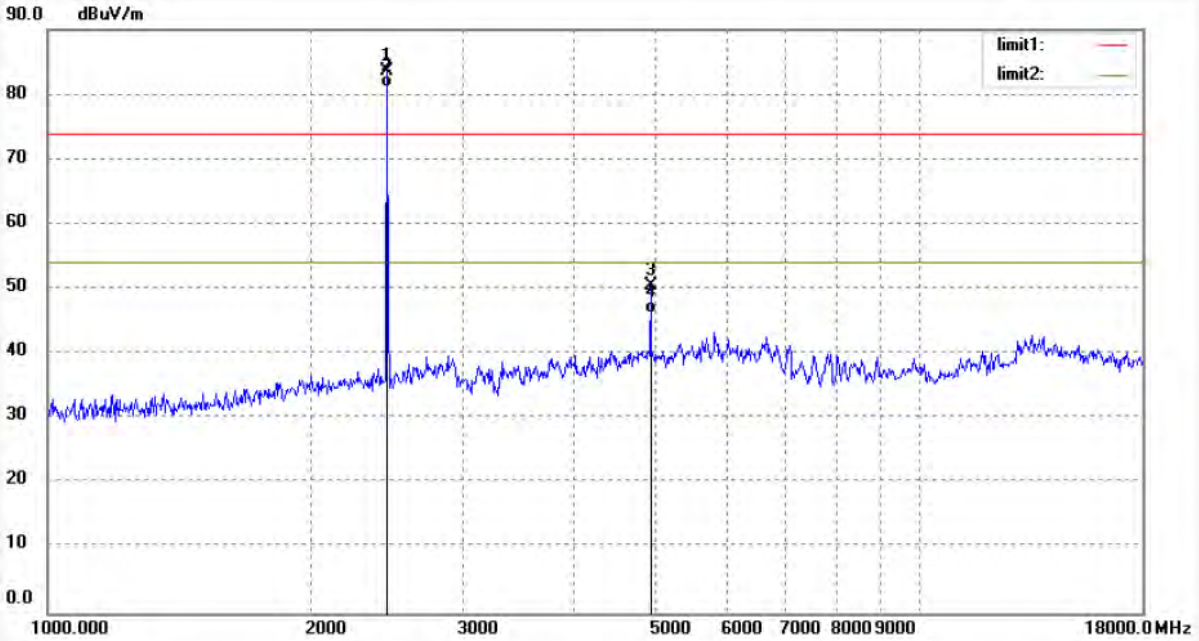


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	90.30	-7.33	82.97	114.00	-31.03	peak			
2	2480.000	87.36	-7.33	80.03	94.00	-13.97	AVG			
3	4960.000	47.04	0.30	47.34	74.00	-26.66	peak			
4	4960.000	43.04	0.30	43.34	54.00	-10.66	AVG			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #863	Polarization: Vertical
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/35/37
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

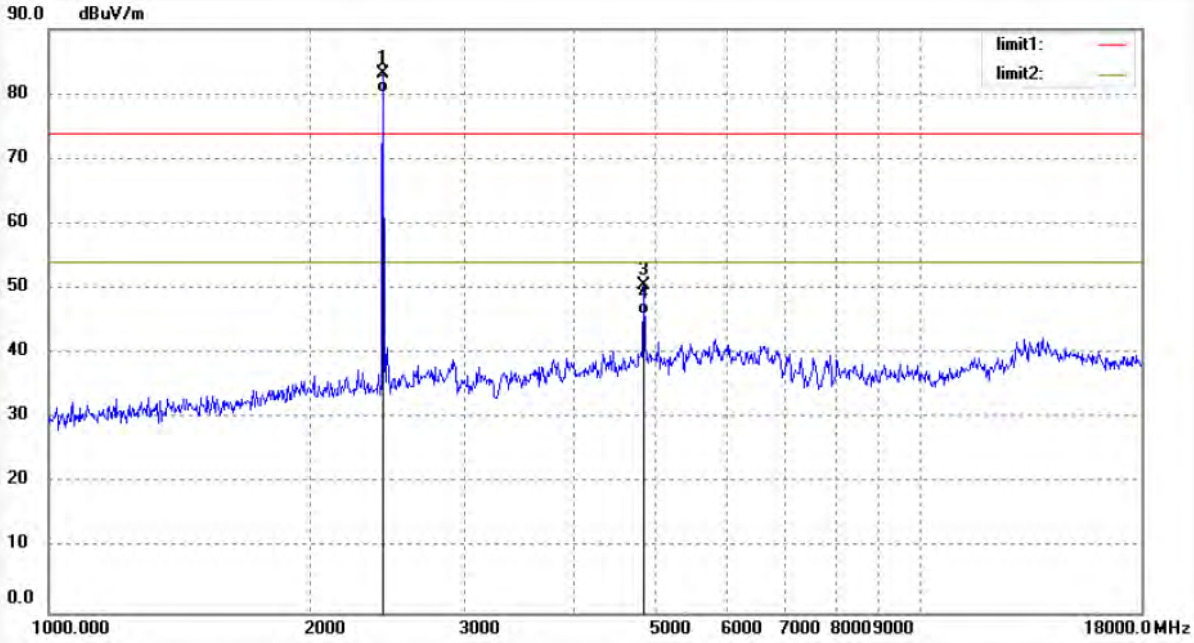


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	90.98	-7.33	83.65	114.00	-30.35	peak			
2	2480.000	88.36	-7.33	81.03	94.00	-12.97	AVG			
3	4960.000	50.23	0.30	50.53	74.00	-23.47	peak			
4	4960.000	46.03	0.30	46.33	54.00	-7.67	AVG			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #864	Polarization: Vertical
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/37/16
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

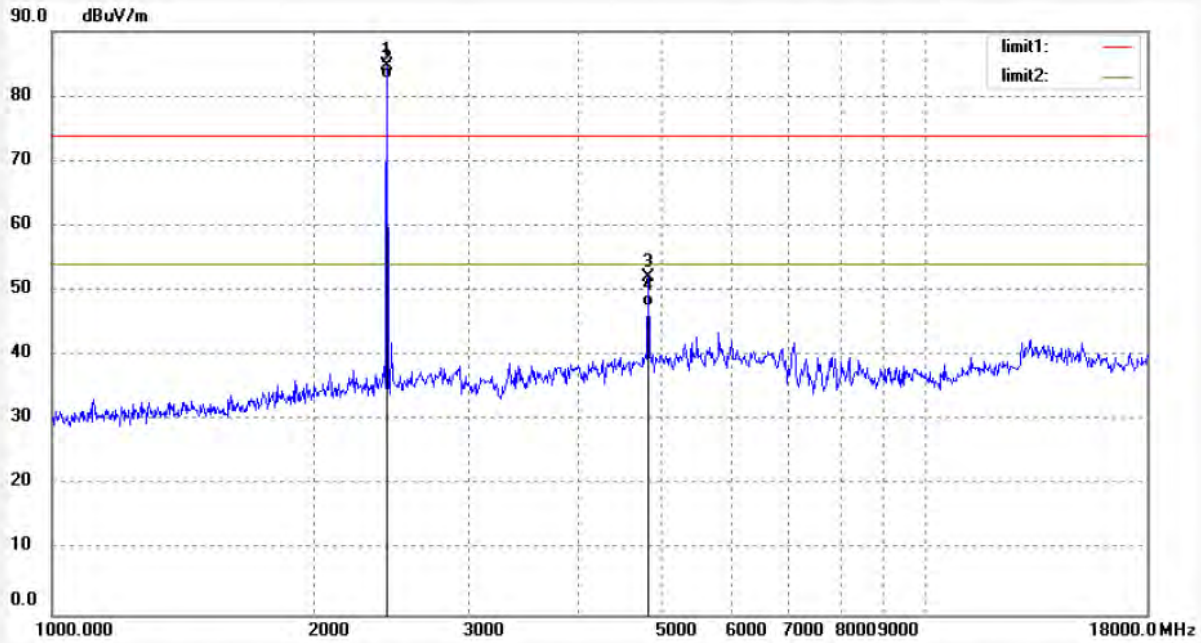


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2446.000	90.55	-7.40	83.15	114.00	-30.85	peak			
2	2446.000	87.68	-7.40	80.28	94.00	-13.72	AVG			
3	4892.000	50.67	-0.15	50.52	74.00	-23.48	peak			
4	4892.000	46.12	-0.15	45.97	54.00	-8.03	AVG			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #865	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/37/41
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

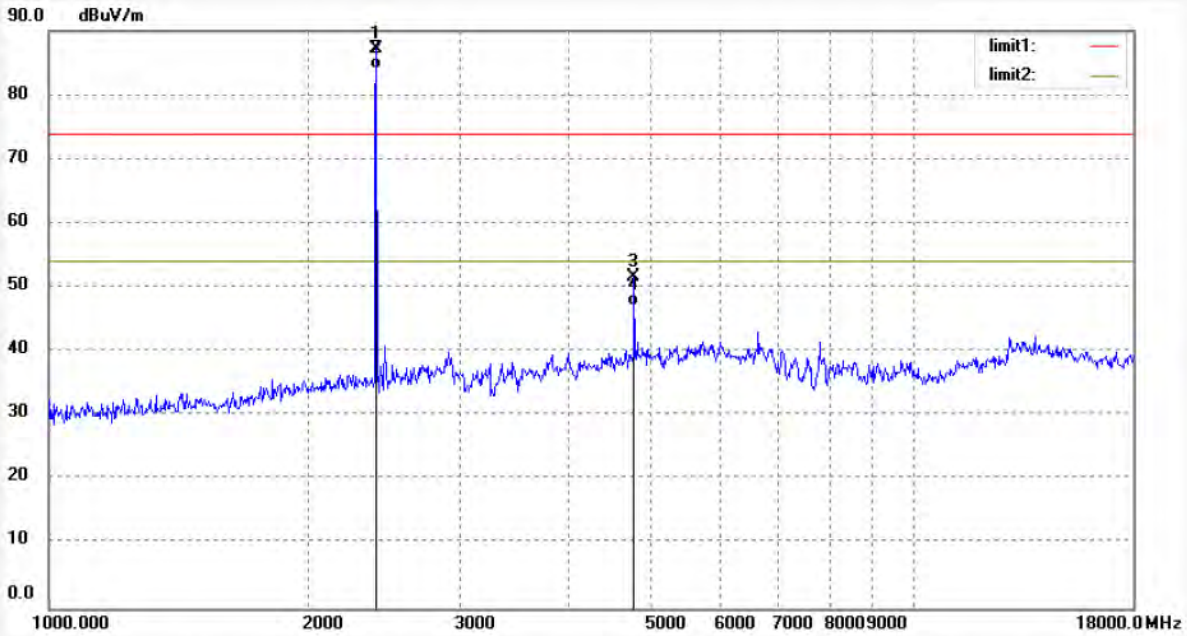


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2446.000	92.09	-7.40	84.69	114.00	-29.31	peak			
2	2446.000	90.01	-7.40	82.61	94.00	-11.39	AVG			
3	4892.000	52.29	-0.15	52.14	74.00	-21.86	peak			
4	4892.000	47.65	-0.15	47.50	54.00	-6.50	AVG			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #866	Polarization: Vertical
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/39/11
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

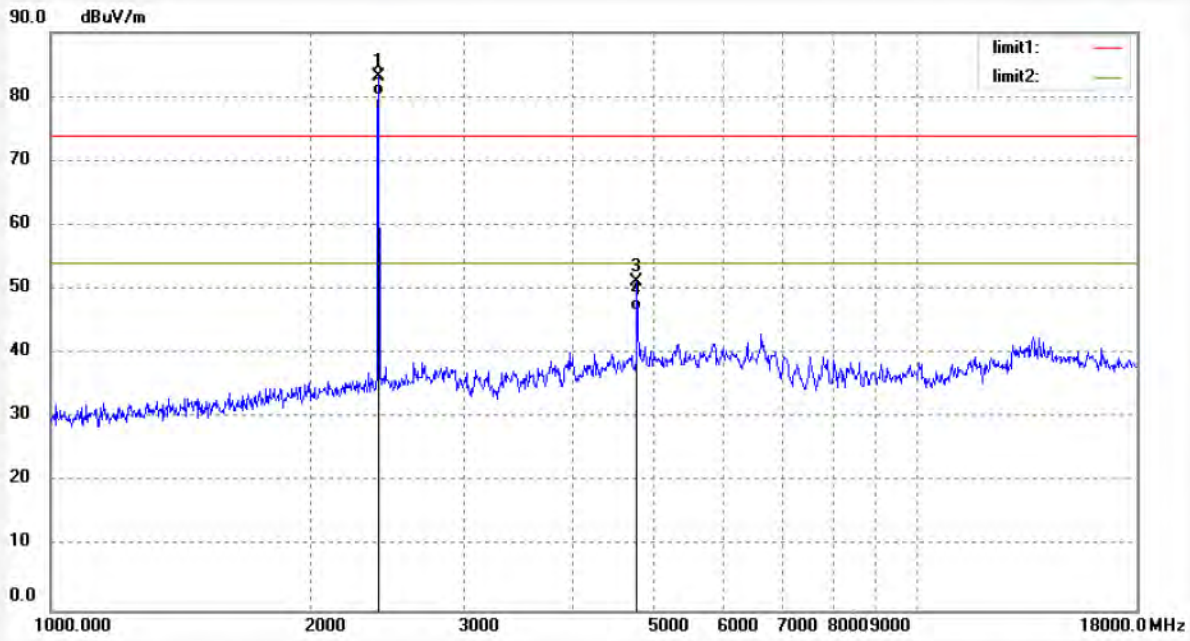


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	94.72	-7.49	87.23	114.00	-26.77	peak			
2	2412.000	91.45	-7.49	83.96	94.00	-10.04	AVG			
3	4824.000	52.27	-0.55	51.72	74.00	-22.28	peak			
4	4824.000	47.63	-0.55	47.08	54.00	-6.92	AVG			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #867	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/39/31
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

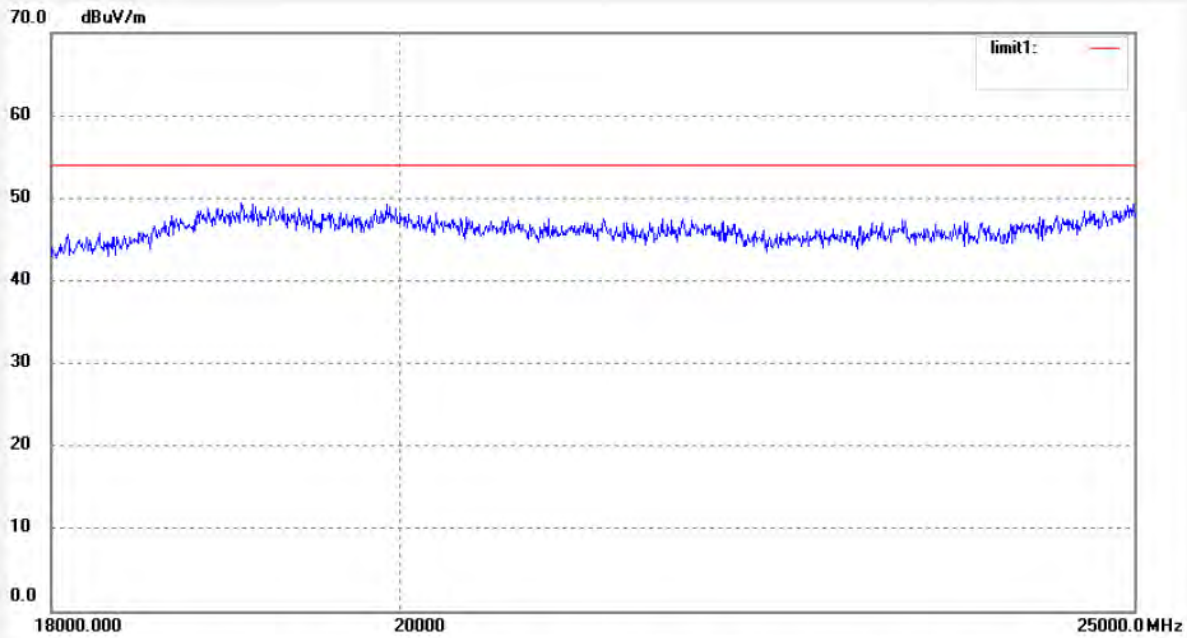


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	90.55	-7.49	83.06	114.00	-30.96	peak			
2	2412.000	87.68	-7.49	80.19	94.00	-13.81	AVG			
3	4824.000	51.71	-0.55	51.16	74.00	-22.84	peak			
4	4824.000	47.25	-0.55	46.70	54.00	-7.30	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.: ALEN #770	Polarization: Horizontal
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:17:15
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

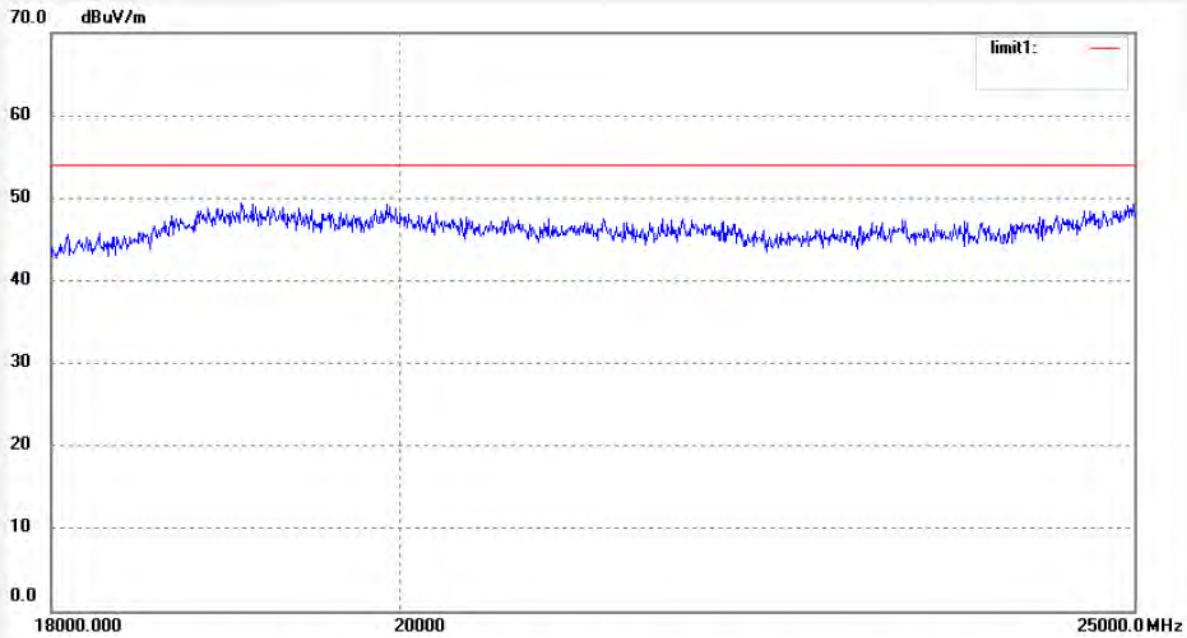


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: ALEN #770	Polarization: Horizontal
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:17:15
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

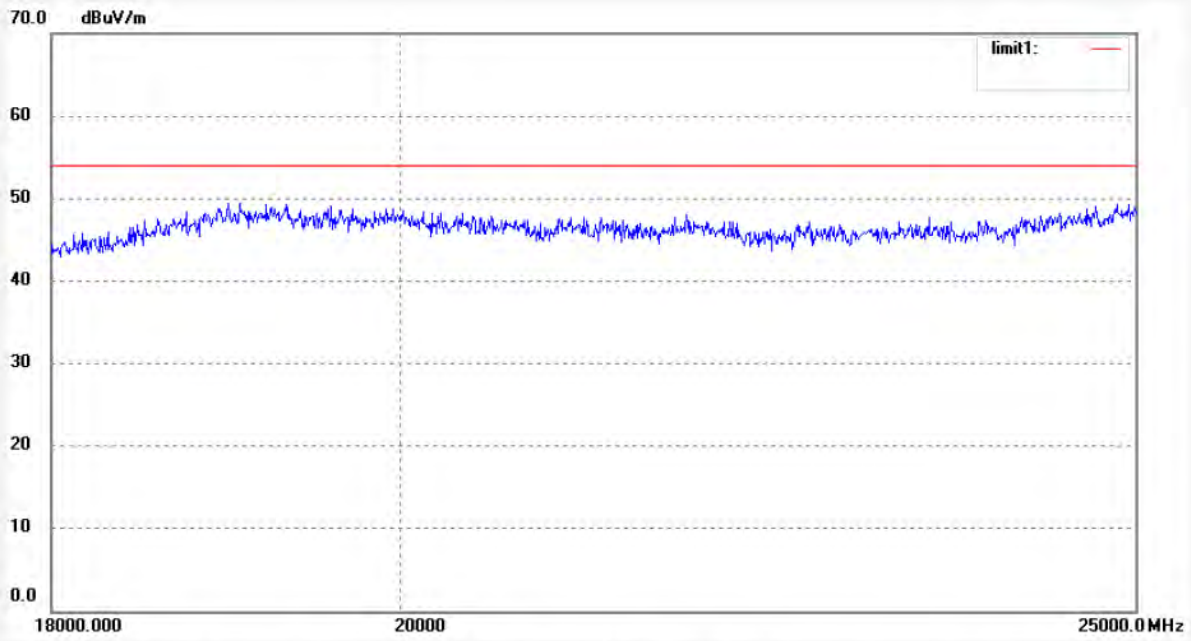


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: ALEN #771	Polarization: Vertical
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:19:22
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

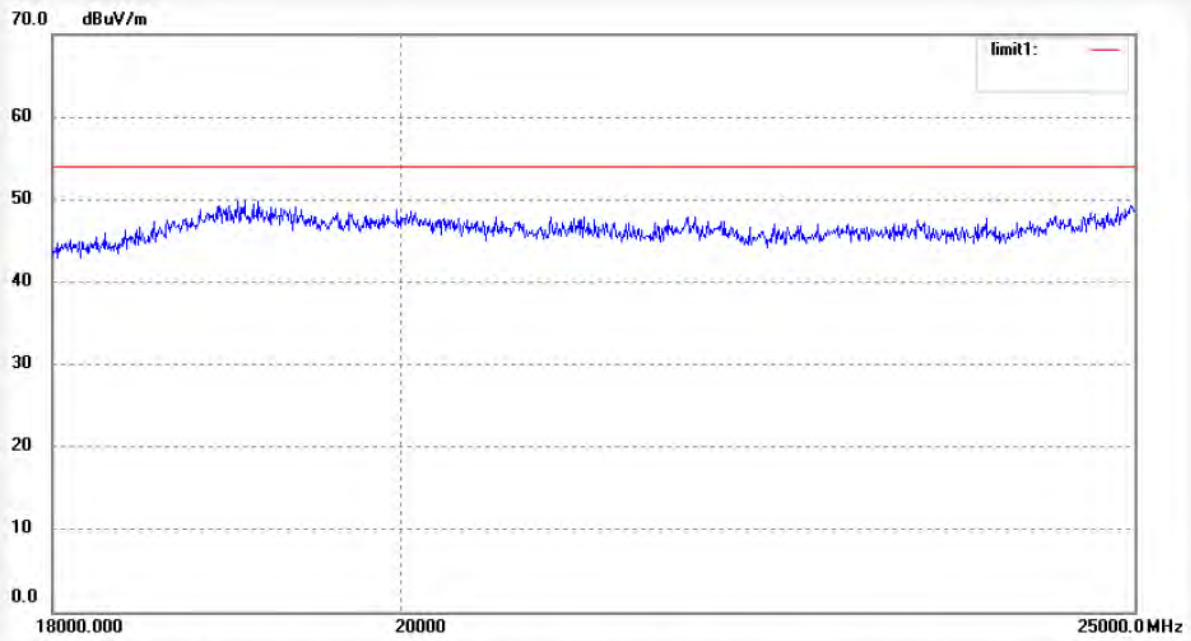


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: ALEN #772	Polarization: Vertical
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:24:45
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

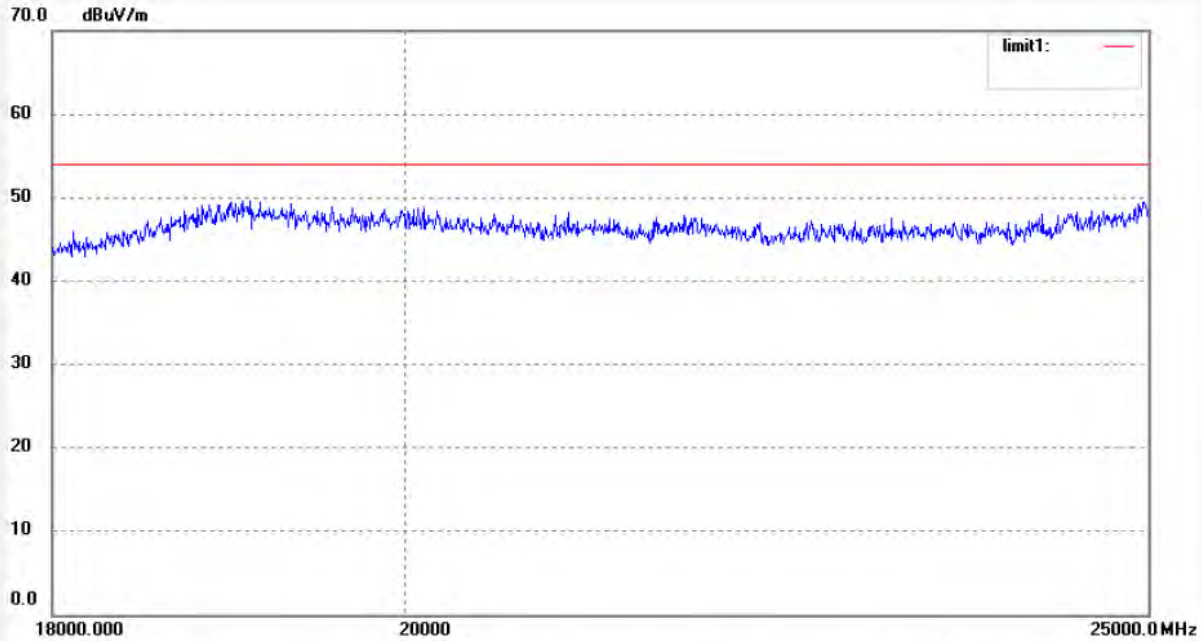


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: ALEN #773	Polarization: Horizontal
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:28:36
EUT: BEACON	Engineer Signature:
Mode: TX 2446MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

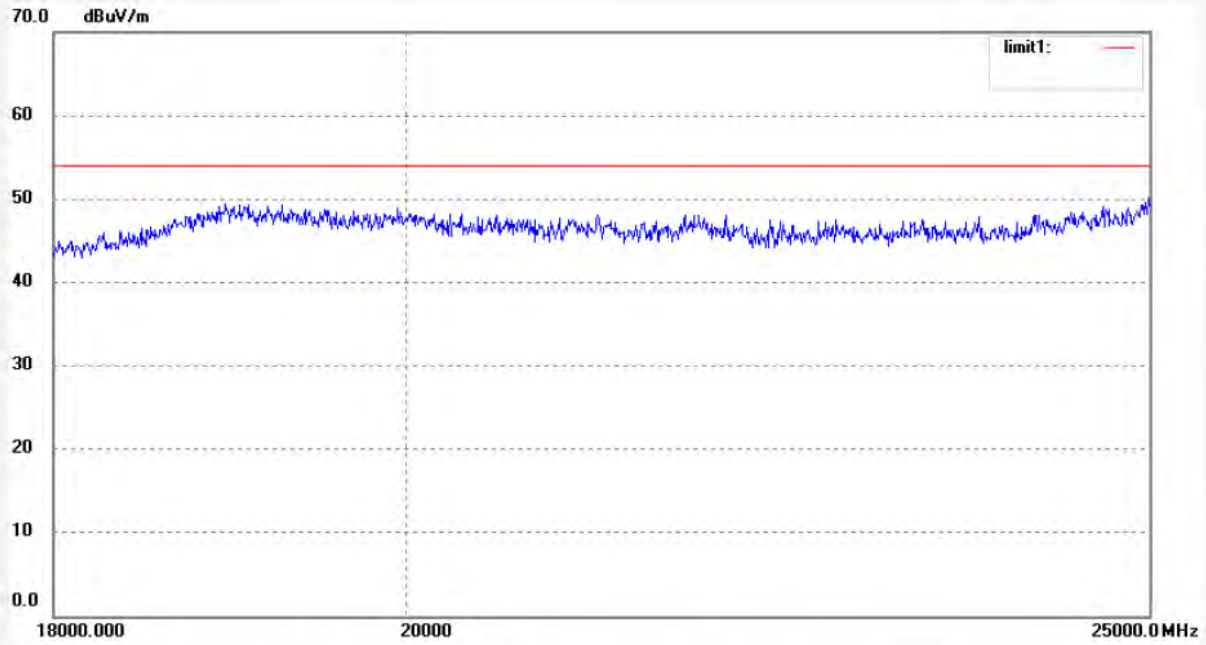


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: ALEN #774	Polarization: Horizontal
Standard: FCC 15C	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14:30:55
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note:

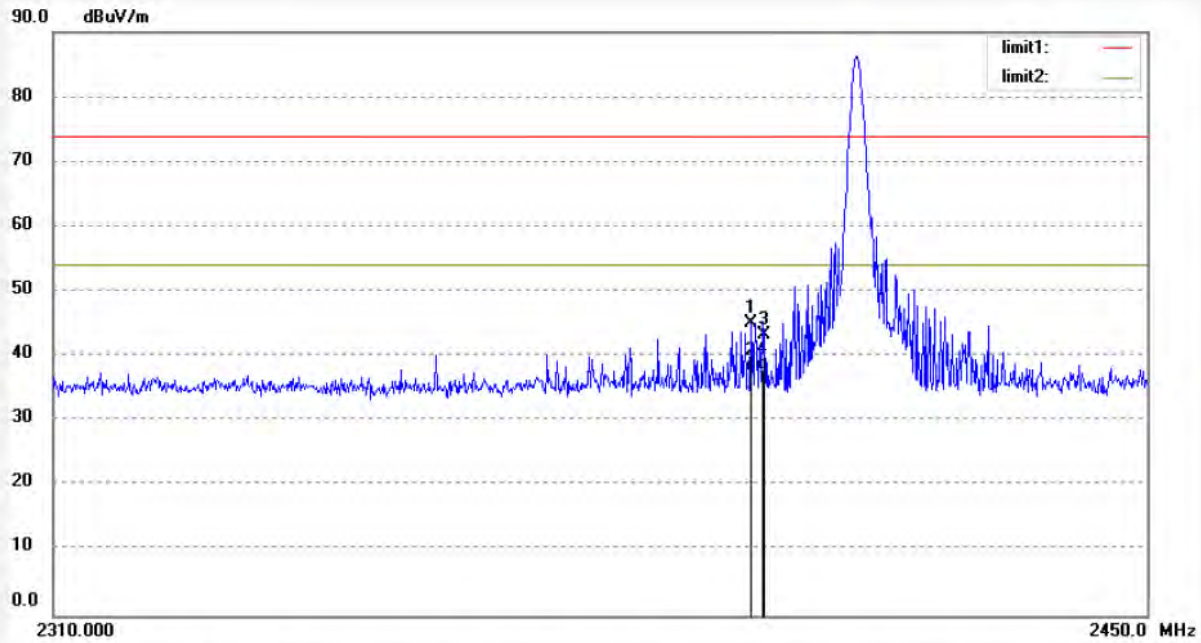


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #868	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/40/44
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.405	52.51	-7.47	45.04	74.00	-28.96	peak			
2	2398.405	45.21	-7.47	37.74	54.00	-16.26	AVG			
3	2400.000	50.66	-7.46	43.20	74.00	-30.80	peak			
4	2400.000	45.36	-7.46	37.90	54.00	-16.10	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
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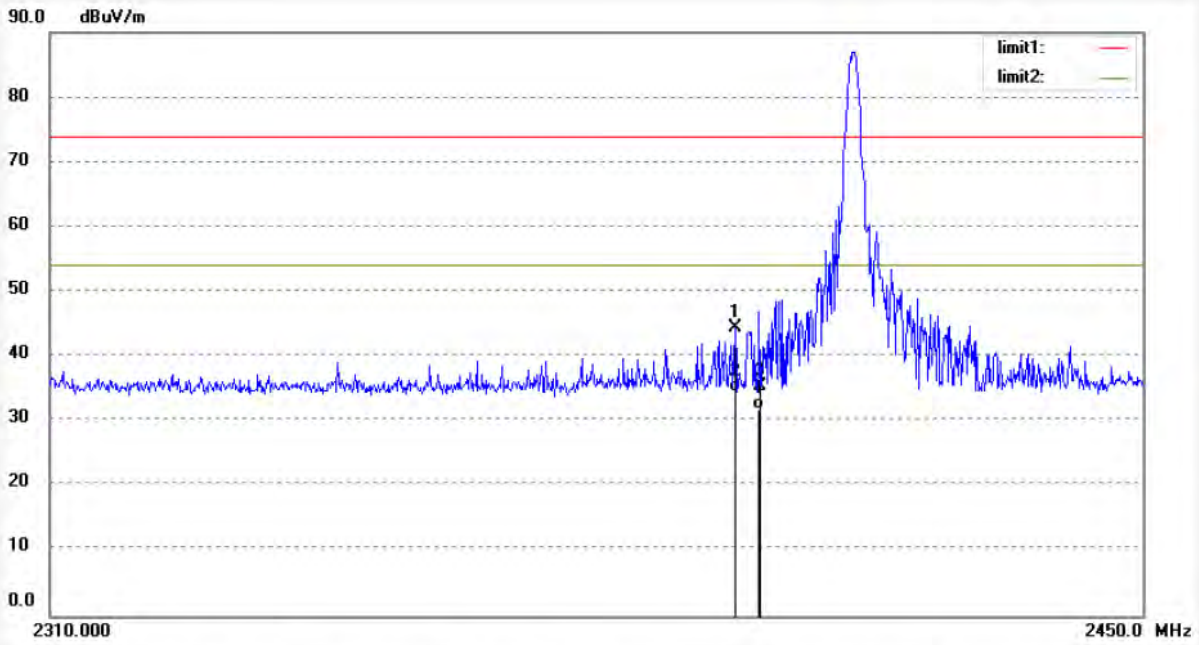
Fax:+86-0755-26503396

Job No.: ALEN #869	Polarization: Vertical
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/41/58
EUT: BEACON	Engineer Signature:
Mode: TX 2412MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2396.850	51.83	-7.48	44.35	74.00	-29.65	peak			
2	2396.850	42.01	-7.48	34.53	54.00	-19.47	AVG			
3	2400.000	42.98	-7.46	35.52	74.00	-38.48	peak			
4	2400.000	39.36	-7.46	31.90	54.00	-22.10	AVG			

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Site: 2# Chamber
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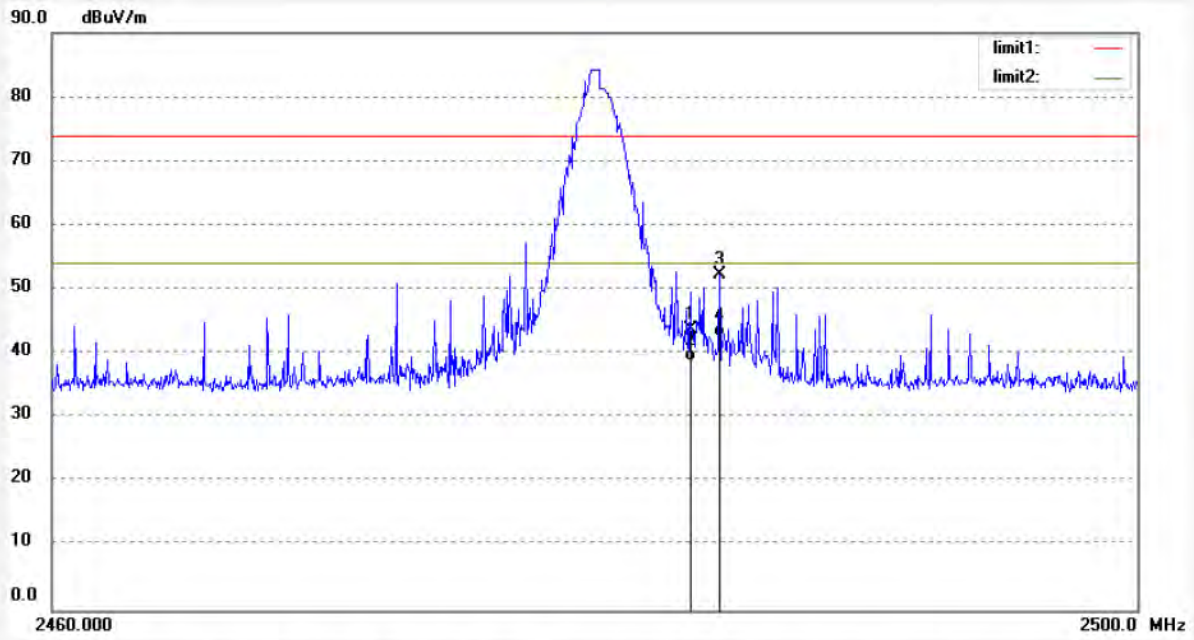
Fax:+86-0755-26503396

Job No.: ALEN #870	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/44/23
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.20	-7.37	43.83	74.00	-30.17	peak			
2	2483.500	46.10	-7.37	38.73	54.00	-15.27	AVG			
3	2484.533	59.63	-7.38	52.25	74.00	-21.75	peak			
4	2484.533	50.01	-7.38	42.63	54.00	-11.37	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
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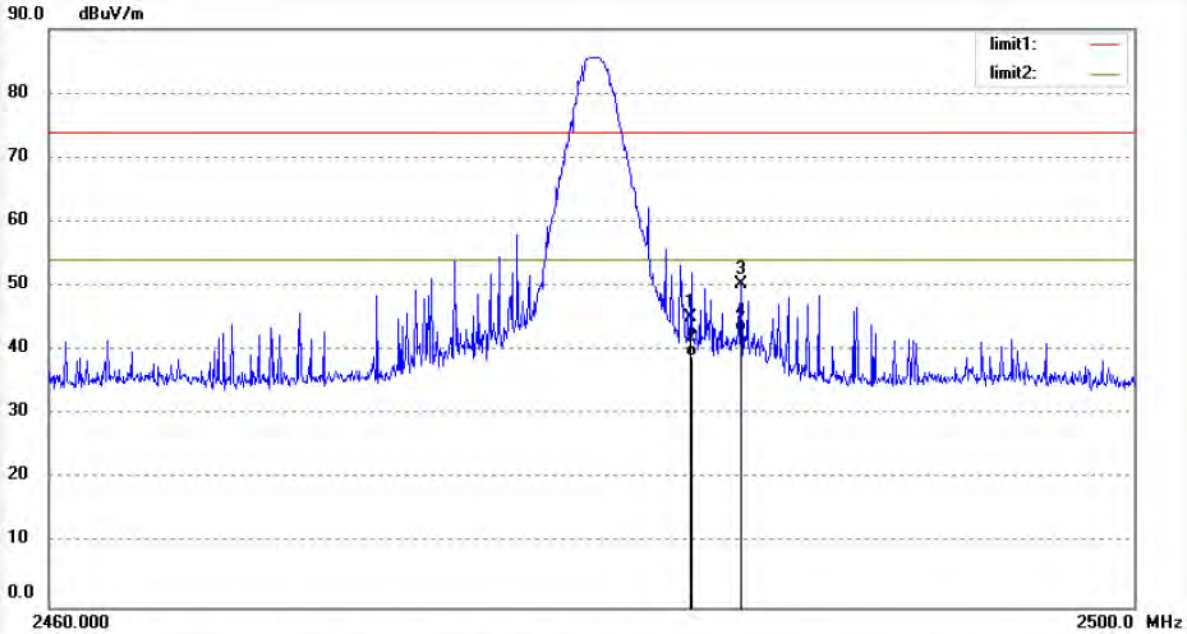
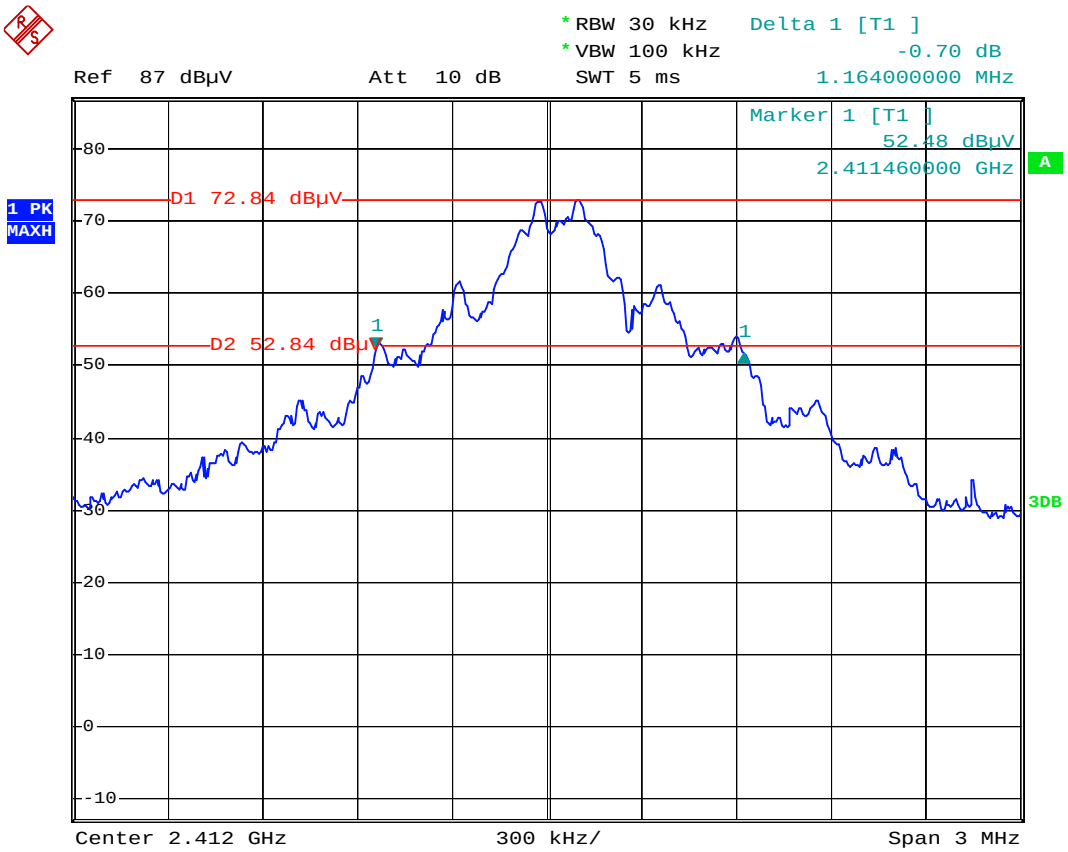
Fax:+86-0755-26503396

Job No.: ALEN #871	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 4.5V
Test item: Radiation Test	Date: 13/02/15/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/45/20
EUT: BEACON	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: BEC-000-01	
Manufacturer: Exploit	

Note: Report No:ATE20122104

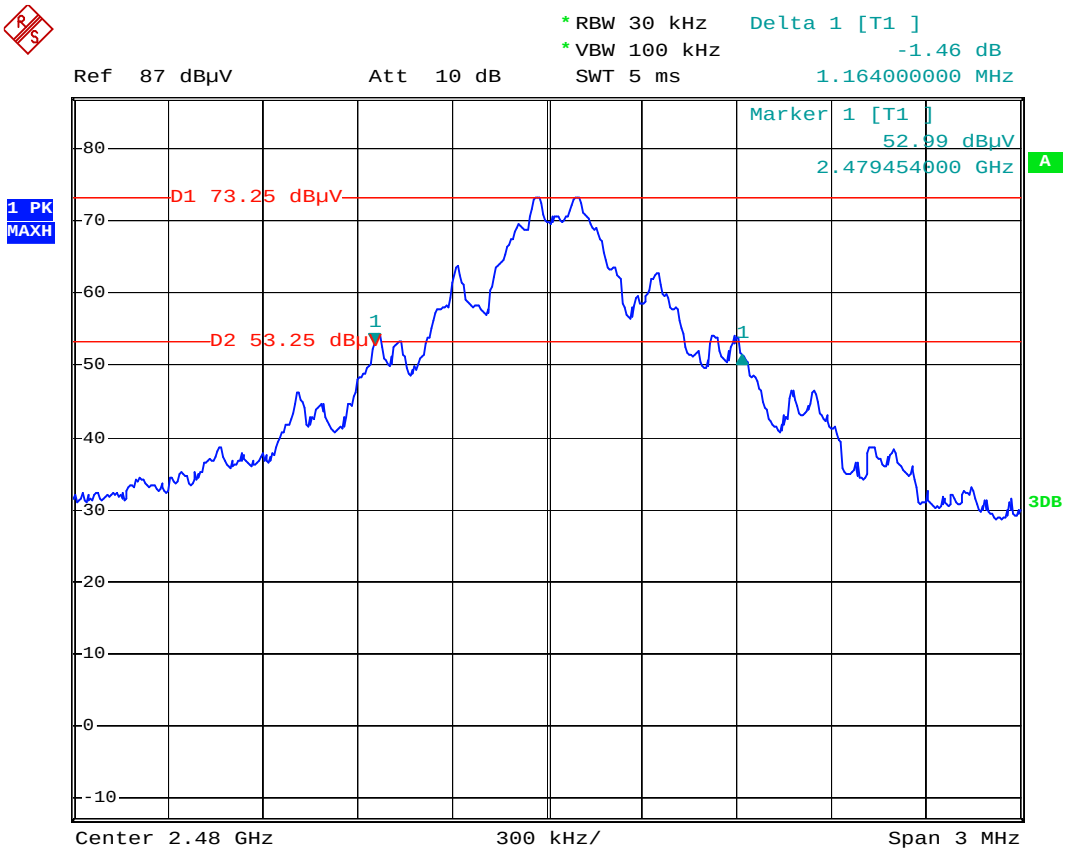


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	52.41	-7.37	45.04	74.00	-28.96	peak			
2	2483.500	46.31	-7.37	38.94	54.00	-15.06	AVG			
3	2485.456	57.58	-7.38	50.20	74.00	-23.80	peak			
4	2485.456	50.32	-7.38	42.94	54.00	-11.06	AVG			



Date: 17.APR.2013 11:15:10

Date: 17.APR.2013 11:16:54



Date: 17.APR.2013 11:20:44