Prüfbericht-Nr.: *Test report No.:*	**50065892 002**	**Auftrags-Nr.:** *Order No.:*	164075556	Seite 1 von 20 *Page 1 of 20*
Kunden-Referenz-Nr.: *Client reference No.:*	N/A	**Auftragsdatum:** *Order date.:*	19.10.2016	
Auftraggeber: *Client:*	**Bowens Studio Lighting Technology (Suzhou) Co.,Ltd.** 1F, Block7, 158# QiMing RD, IFTZ, Suzhou Industrial Park, Jiangsu Province, 215121, P.R.China			
Prüfgegenstand: *Test item:*	XMT TTL TRIGGER			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	XMTRC, XMTRN, XMTRS			
Auftrags-Inhalt: *Order content:*	FCC and IC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Subpart J Section 2.1093 RSS-210 Issue 9 August 2016 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015			

Wareneingangsdatum: *Date of receipt:*	21.10.2016	Please refer to photo documents
Prüfmuster-Nr.: *Test sample No.:*	A000435351-023 A000435351-024	
Prüfzeitraum: *Testing period:*	29.10.2016 - 09.12.2016	
Ort der Prüfung: *Place of testing:*	Accurate Technology Co., Ltd.	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result*:*	Pass	

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
07.02.2017	Andy Yan / Project Manager		07.02.2017	Owen Tian / Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:* For model difference information refer to clause 3.1.

FCC ID: 2AI2WXMTR

IC: 22262-XMTR HVIN: XMTR

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS
RESULT: Pass

5.1.3 BANDWIDTH
RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION & BAND EDGE
RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

Contents

1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Results of Radiated Emission

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.
F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	ESPI3	100396/003	09.01.2017
Radiated Emission & Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	FSV40	101495	09.01.2017
Test Receiver	R&S	ESCS30	100307	09.01.2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	14.01.2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	14.01.2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	14.01.2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	09.01.2017
Pre-Amplifier	R&S	CBLU11835 40-01	3791	09.01.2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	09.01.2017
RF Coaxial Cable	SUHNER	N-3m	No.8	09.01.2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	09.01.2017
RF Coaxial Cable	SUHNER	N-6m	No.10	09.01.2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	09.01.2017
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Item		**Extended Uncertainty**
Radiated Emission (9kHz-30MHz)	Field strength (dBμV/m)	U=3.08dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	U=4.42dB, k=2, σ=95%
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	U=4.06dB, k=2, σ=95%
Radio Spectrum		± 0.60 dB
Ambient Temperature		25 ℃
Relative Humidity		56 %
Atmospheric Pressure		101 kPa

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a radio remote and trigger transmitter operating in 2.4GHz ISM band, this report is only for DXX.

The models difference information:

Model	Difference Description	
XMTRC	All three models are the same with each other in hardware and electronic aspect except the minor changes in connector port to different camera.	Connect with the camera of CANON
XMTRN		Connect with the camera of NIKON
XMTRS		Connect with the camera of SONY

All three models have been pretested and only the worst case mode has been reported.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of Transmitter

Technical Specification	Value
Kind of Equipment	XMT TTL TRIGGER
Type Designation	XMTRC, XMTRN, XMTRS
FCC ID	2AI2WXMTR
IC / HVIN	22262-XMTR / XMTR
Operating Frequency	2413 ~ 2464.5MHz
Operating Temperature Range	-5 °C ~ +50 °C
Operating Voltage	2 x 1.5V AA batteries
Testing Voltage	2 x 1.5V AA new batteries
Type of Modulation	MSK
Channel Number	32
Channel List	2413.0MHz, 2414.5MHz, 2416.0MHz, 2418.0MHz, 2419.5MHz, 2421.0MHz, 2423.0MHz, 2424.5MHz, 2426.0MHz, 2428.0MHz, 2429.5MHz, 2431.0MHz, 2433.0MHz, 2434.5MHz, 2436.0MHz, 2438.0MHz, 2439.5MHz, 2441.0MHz, 2443.0MHz, 2444.5MHz, 2446.0MHz, 2448.0MHz, 2449.5MHz, 2451.0MHz, 2453.0MHz, 2454.5MHz, 2456.0MHz, 2458.0MHz, 2459.5MHz, 2461.0MHz, 2463.0MHz, 2464.5MHz
Antenna Type	Integral Antenna (PCB Antenna)
Maximum Antenna Gain	0.00 dBi

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Wireless Transmitting mode
   1. Low channel
   2. Middle channel
   3. High channel

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Circuit Diagram
- FCC Label and Location
- Operation Description
- Model Difference Letter
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all models have been pretested and only the worst case with XMTRC was reported.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

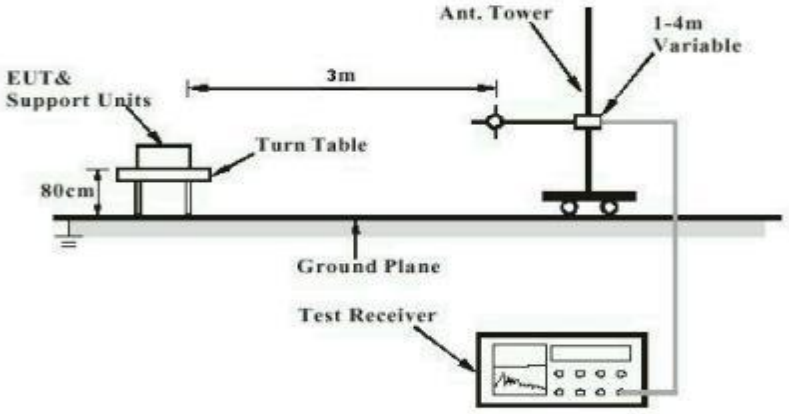


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

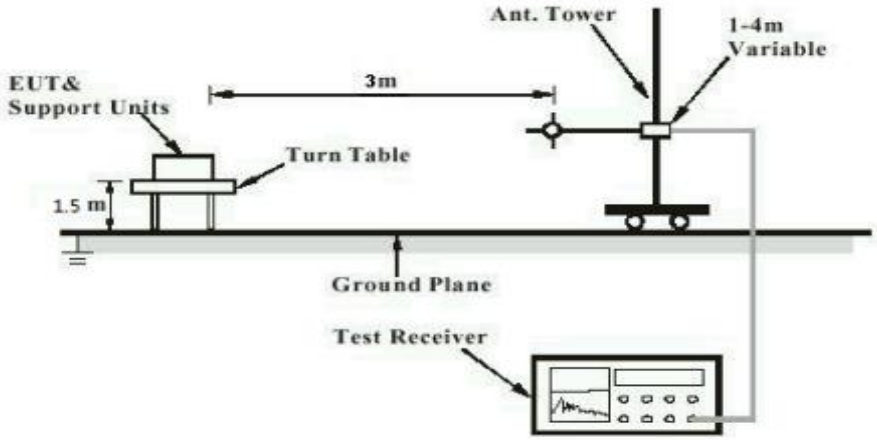
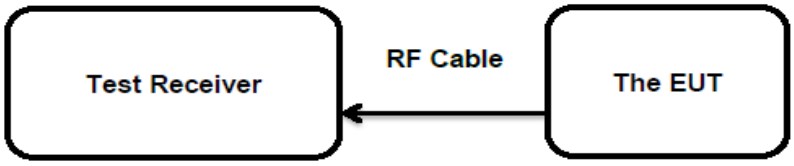


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has an internal antenna, the maximum directional gain of antenna is 0.00 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Field Strength of Fundamental and Harmonics

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.249(a)
		RSS 210 Annex B (B.10.a)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC Part 15.249(a)
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	29.10.2016
Input voltage	:	2 x 1.5V AA new batteries
Operation mode	:	A
Ambient temperature	:	23℃
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

The EUT is transmitting continuously with 100% duty cycle during the testing. Peak detector used with RBW 3MHz/VBW 3MHz for peak value and RBW 1MHz/VBW 10Hz for average value.

For the measurement records, refer to the appendix A.

5.1.3 Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.215
		RSS-Gen Clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

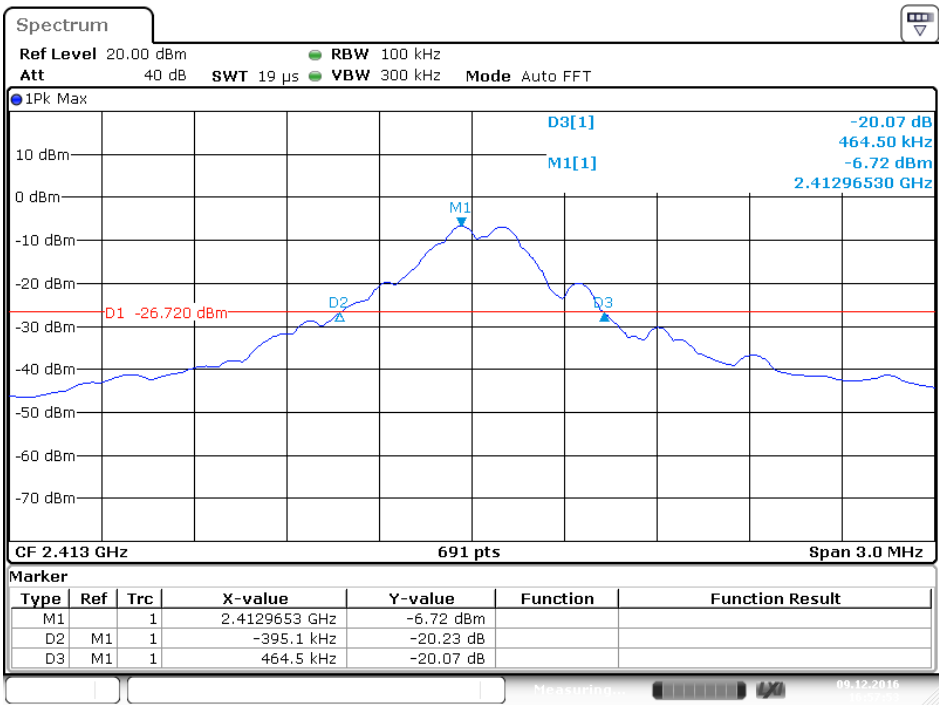
Date of testing	:	11.11.2016 ~ 09.12.2016
Input voltage	:	2 x 1.5V AA new batteries
Operation mode	:	A1
Ambient temperature	:	23 ℃
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

Table 3: Test Result of 20dB Bandwidth and 99% Occupied Bandwidth

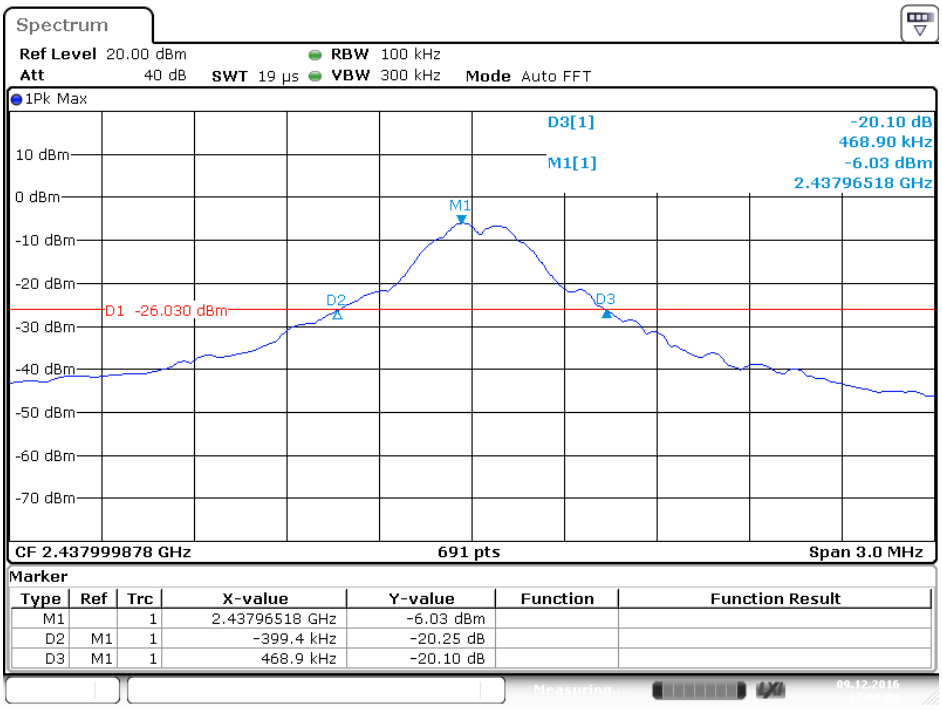
Frequency (MHz)	20dB Bandwidth (KHz)	99% OBW (KHz)	Limit
2413.0	860	1029	Within the frequency band 2400MHz~ 2483.5MHz
2438.0	868	986	
2464.5	925	1046	

For the measurement records, refer to following test plot:

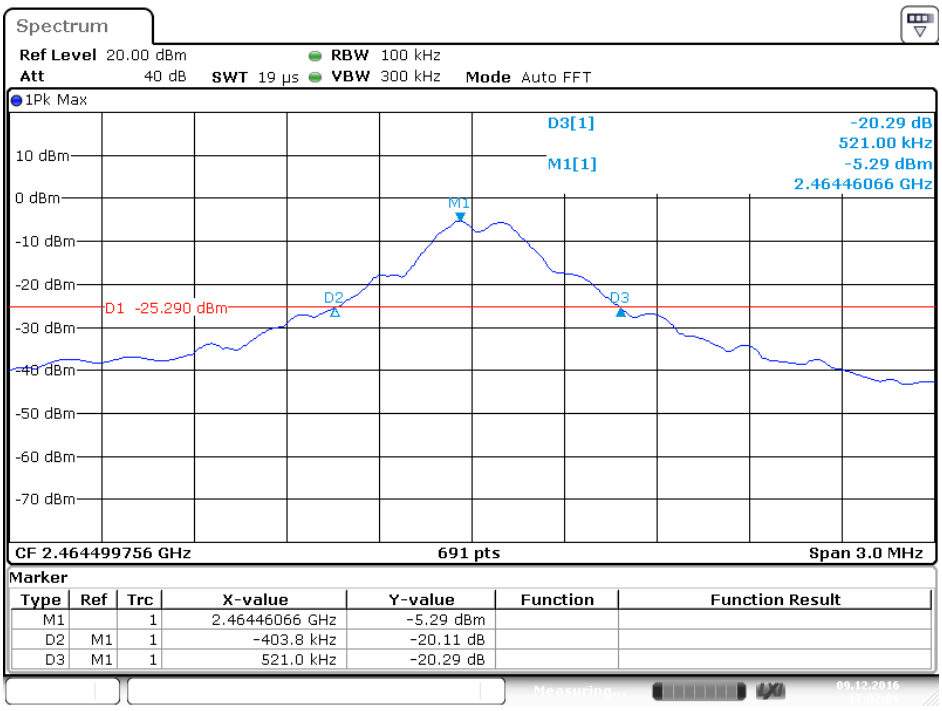
Test Plot of 20dB Bandwidth



Date: 9.DEC.2016 16:57:53

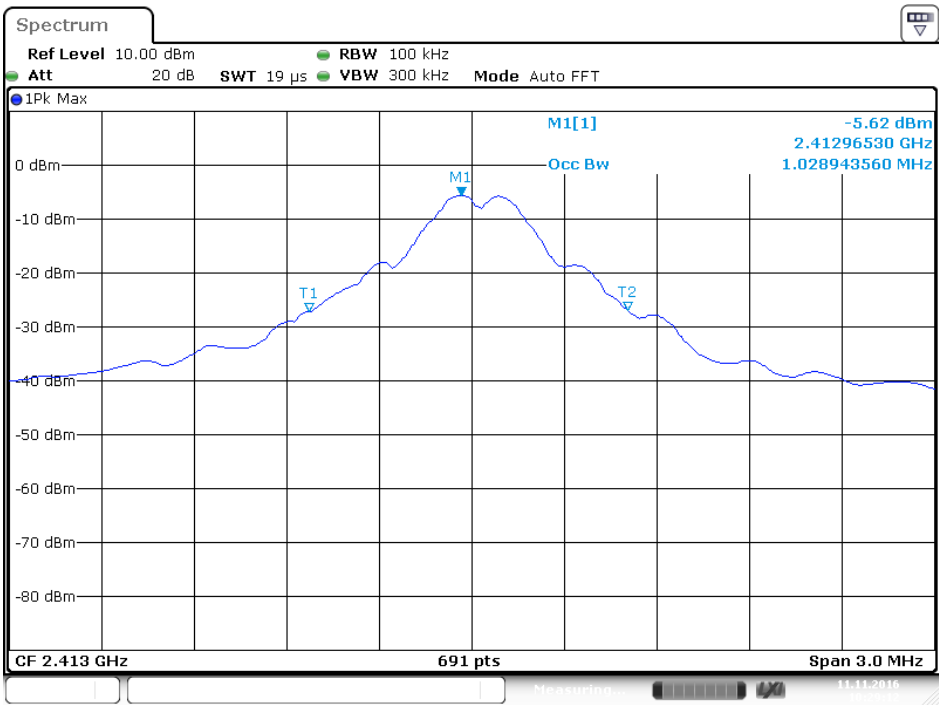


Date: 9.DEC.2016 17:00:04

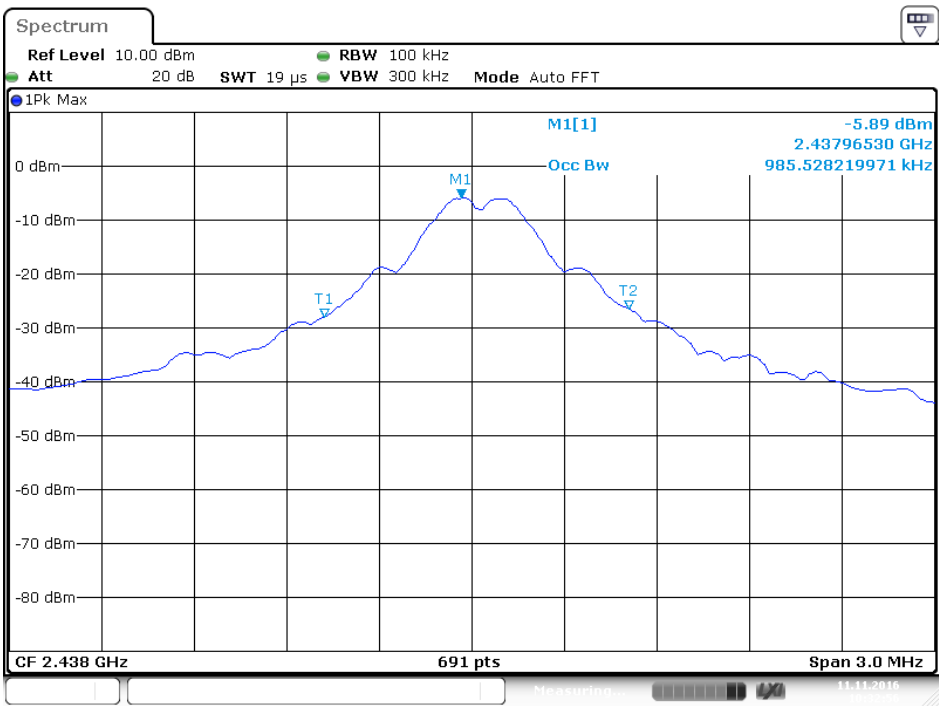


Date: 9.DEC.2016 17:02:07

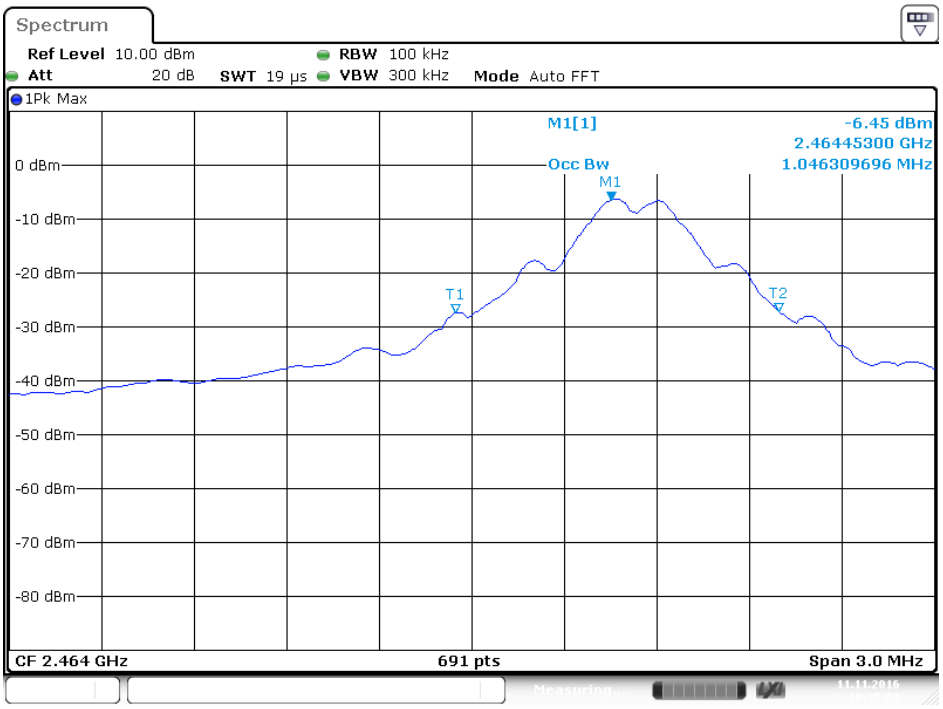
Test Plot of 99% Bandwidth



Date: 11.NOV.2016 10:29:12



Date: 11.NOV.2016 10:32:56



Date: 11.NOV.2016 10:35:02

5.1.4 Radiated Spurious Emission & Band Edge

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.249
		RSS 210 Annex B (B.10)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC Part 15.249
		RSS 210 Annex B (B.10. b) or RSS Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	29.10.2016
Input voltage	:	2 x 1.5V AA new batteries
Operation mode	:	A
Ambient temperature	:	23 ℃
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics. The EUT is transmitting continuously with 100% duty cycle during the testing. Peak detector used with RBW 1MHz/VBW 3MHz for peak value and RBW 1MHz/VBW 10Hz for average value.

For the measurement records, refer to the appendix A.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard : FCC KDB Publication 447498 v06
RSS 102 Issue 5

Measurement Record:

The maximum tested field strength is 92.44dBuV/m at 3 meter distance.

According to KDB 412172 D01 01r01,

eirp = pt x gt = (E x d)^2/30

E = electric field strength in V/m,
d = measurement distance in meters (m).

Hence the maximum tested e.i.r.p.= -2.8dBm

The maximum conducted output power and e.i.r.p. specified.: 0dBm

Antenna Gain: 0dBi

The minimum distance for the EUT to persons is less than 5mm.

Exempted Power for FCC according KDB 447498 D01 v06 for this frequency band: 9.5mW

Exempted Power for IC according RSS 102 Issue 5 for this frequency band: 4mW

Since the maximum conducted output power and e.i.r.p. is 0dBm = 1mW < 4 mW.

The EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06 and RSS 102 Issue 5, Clause 2.5.1 Table 1.

7 Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz)

Please refer to the attached Test setup photos.

Photograph 2: Set-up for Radiated Spurious Emission (30MHz~1GHz)

Please refer to the attached Test setup photos.

Photograph 3: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz)

Please refer to the attached Test setup photos.

Photograph 4: Set-up for Radiated Spurious Emission (18GHz ~ 26GHz)

Please refer to the attached Test setup photos.

8 List of Tables

9 List of Photographs

Appendix A

Radiated Emission

NOTE
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.
All the tested emissions from 9KHz to 30MHz are far below the limit with floor noise and not reported.

Appendix A.1: Field Strength of Fundamental, Harmonics and Spurious Emission

30MHz - 1GHz

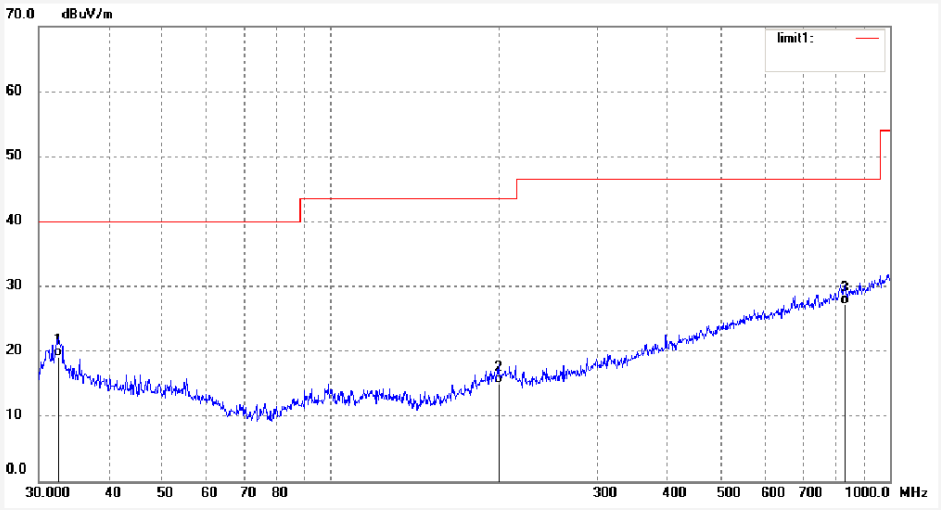
ATC®

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.: Igwade #3886	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.5197	29.29	-10.17	19.12	40.00	-20.88	QP			
2	199.2855	27.19	-12.28	14.91	43.50	-28.59	QP			
3	830.4002	25.84	1.37	27.21	46.40	-19.19	QP			

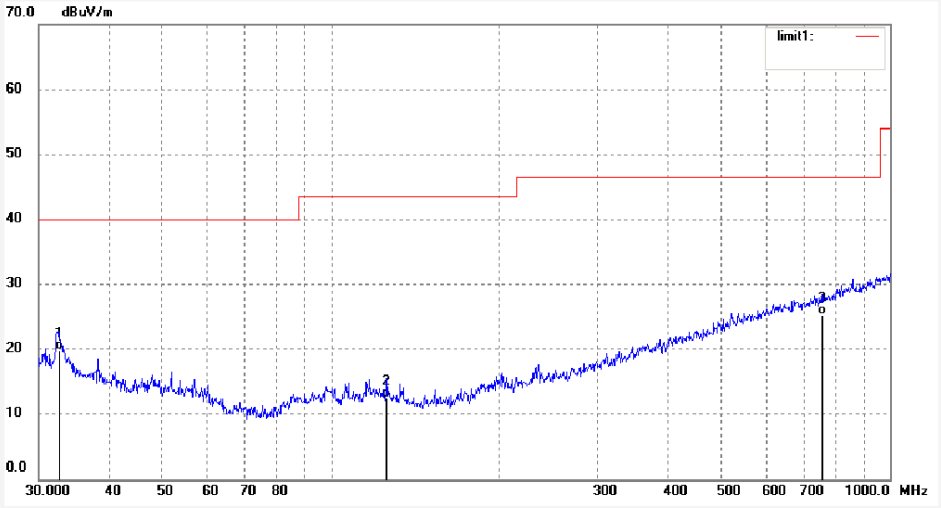
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Igwade #3887
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Radio Remote and Trigger
Mode: TX 2412.999MHz
Model: XMTRC
Manufacturer:

Polarization: Vertical
Power Source: DC 3V
Date: 16/10/29/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bowens



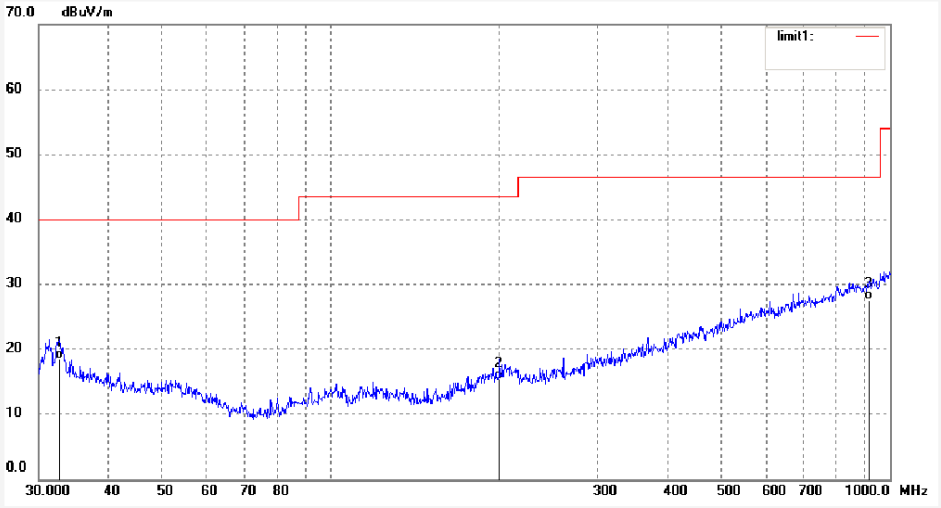
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.6340	29.59	-9.71	19.88	40.00	-20.12	QP			
2	125.8863	26.14	-13.66	12.48	43.50	-31.02	QP			
3	755.3872	25.58	-0.21	25.37	46.40	-21.03	QP			

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.: Igwade #3889	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2437.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



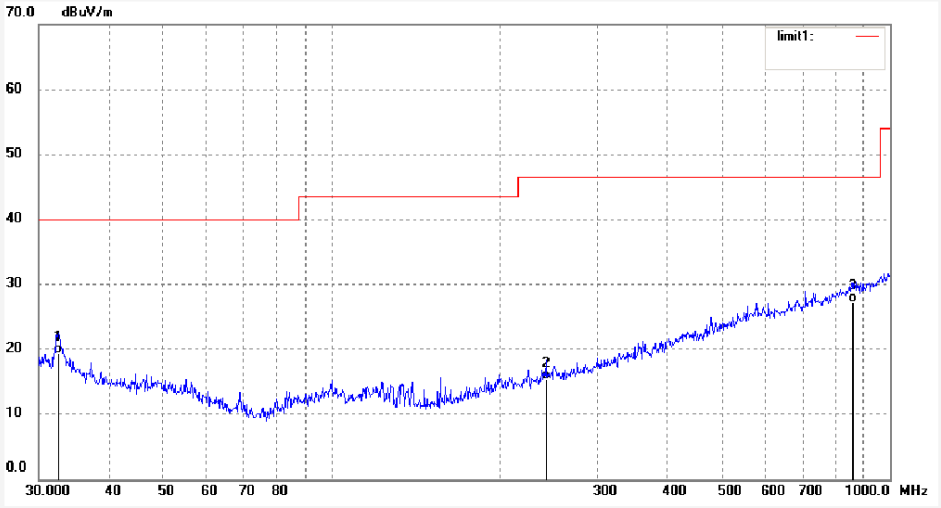
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	28.59	-10.20	18.39	40.00	-21.61	QP			
2	199.9856	27.64	-12.26	15.38	43.50	-28.12	QP			
3	916.0687	25.13	2.40	27.53	46.40	-18.87	QP			

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.: Igwade #3888	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2437.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



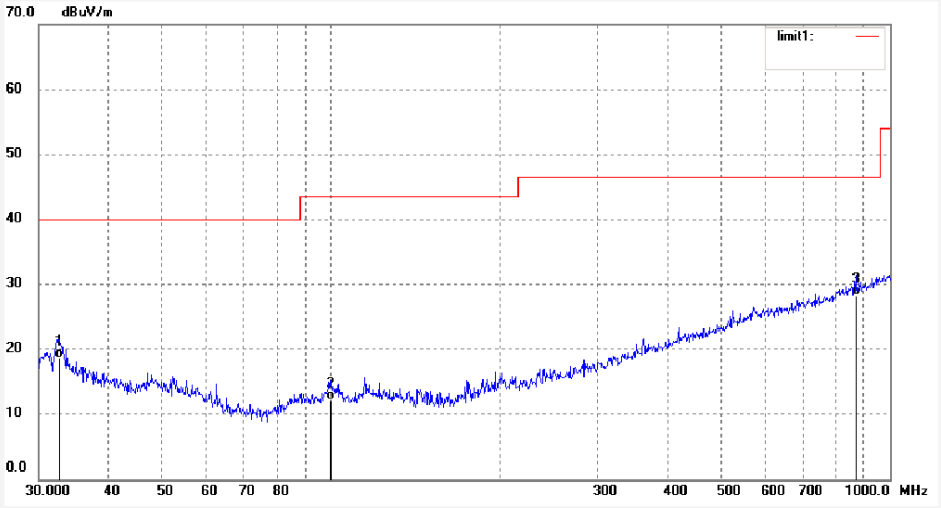
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.5197	29.09	-9.68	19.41	40.00	-20.59	QP			
2	242.5252	25.91	-10.60	15.31	46.40	-31.09	QP			
3	857.0247	25.59	1.65	27.24	46.40	-19.16	QP			

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.: Igwade #3891	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.6340	28.33	-9.71	18.62	40.00	-21.38	QP			
2	99.8777	25.19	-13.09	12.10	43.50	-31.40	QP			
3	869.1301	26.45	1.90	28.35	46.40	-18.05	QP			

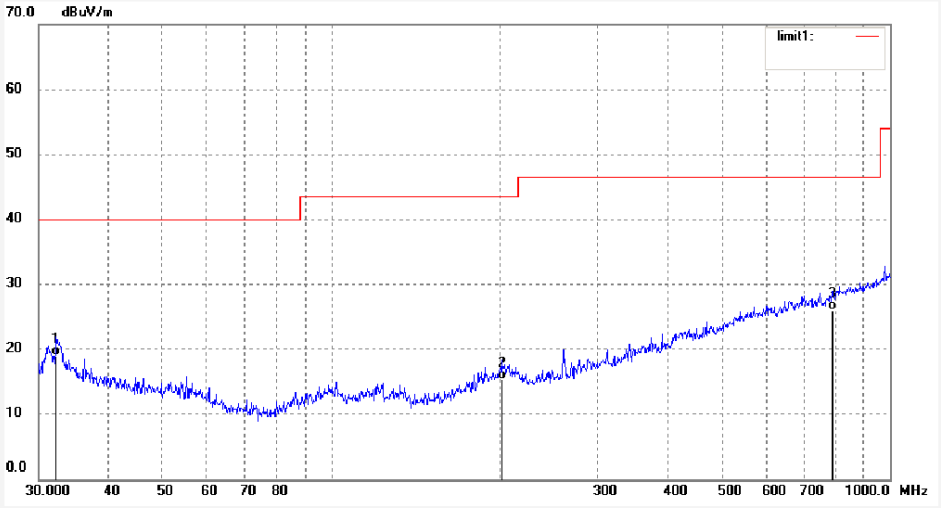
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Igwade #3890
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Radio Remote and Trigger
Mode: TX 2464.499MHz
Model: XMTRC
Manufacturer:

Polarization: Horizontal
Power Source: DC 3V
Date: 16/10/29/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.2924	29.17	-10.16	19.01	40.00	-20.99	QP			
2	202.1005	27.55	-12.21	15.34	43.50	-28.16	QP			
3	787.8513	25.44	0.55	25.99	46.40	-20.41	QP			

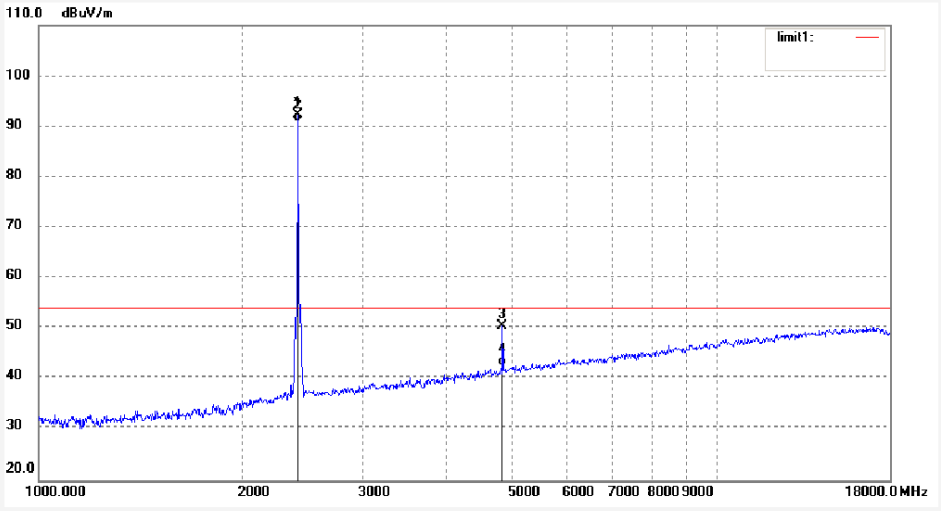
1GHz - 18GHz

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.: lgwade #3870	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.999	99.87	-7.43	92.44	114.00	-21.56	peak			
2	2412.999	98.47	-7.43	91.04	94.00	-2.96	AVG			
3	4826.005	50.61	-0.17	50.44	74.00	-23.56	peak			
4	4826.005	42.73	-0.17	42.56	54.00	-11.44	AVG			

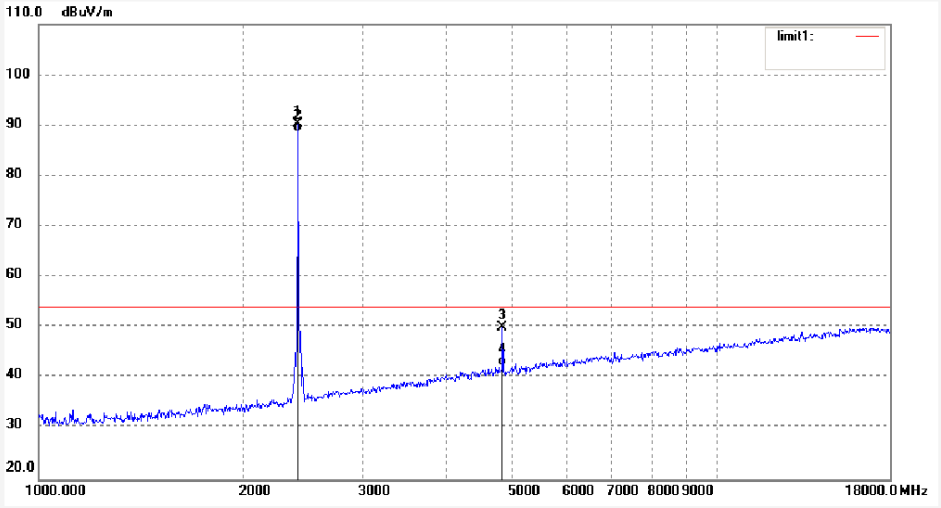
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Igwade #3871
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Radio Remote and Trigger
Mode: TX 2412.999MHz
Model: XMTRC
Manufacturer:

Polarization: Vertical
Power Source: DC 3V
Date: 16/10/29/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.999	97.65	-7.43	90.22	114.00	-23.78	peak			
2	2412.999	96.25	-7.43	88.82	94.00	-5.18	AVG			
3	4826.018	50.26	-0.17	50.09	74.00	-23.91	peak			
4	4826.018	42.54	-0.17	42.37	54.00	-11.63	AVG			

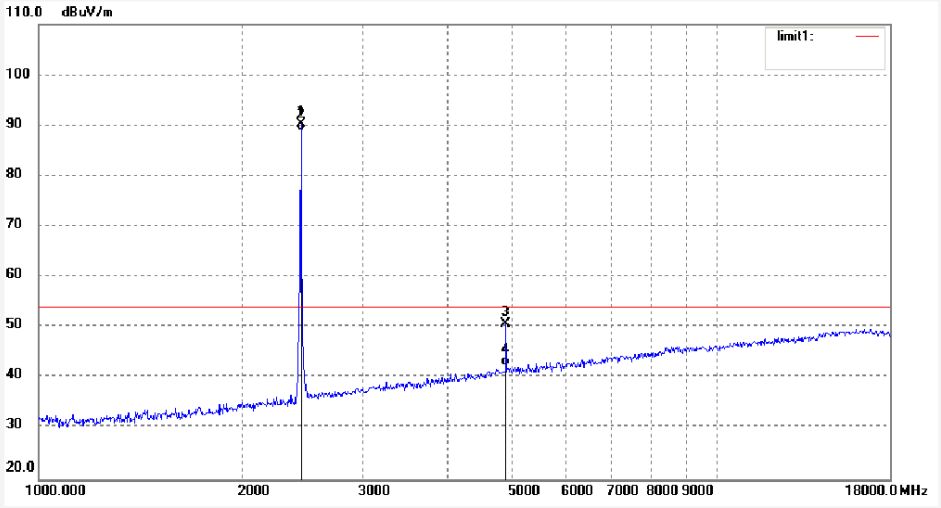
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Igwade #3875
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Radio Remote and Trigger
Mode: TX 2437.999MHz
Model: XMTRC
Manufacturer:

Polarization: Vertical
Power Source: DC 3V
Date: 16/10/29/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.999	97.71	-7.36	90.35	114.00	-23.65	peak			
2	2437.999	96.41	-7.36	89.05	94.00	-4.95	AVG			
3	4876.017	50.66	0.11	50.77	74.00	-23.23	peak			
4	4876.017	42.20	0.11	42.31	54.00	-11.69	AVG			

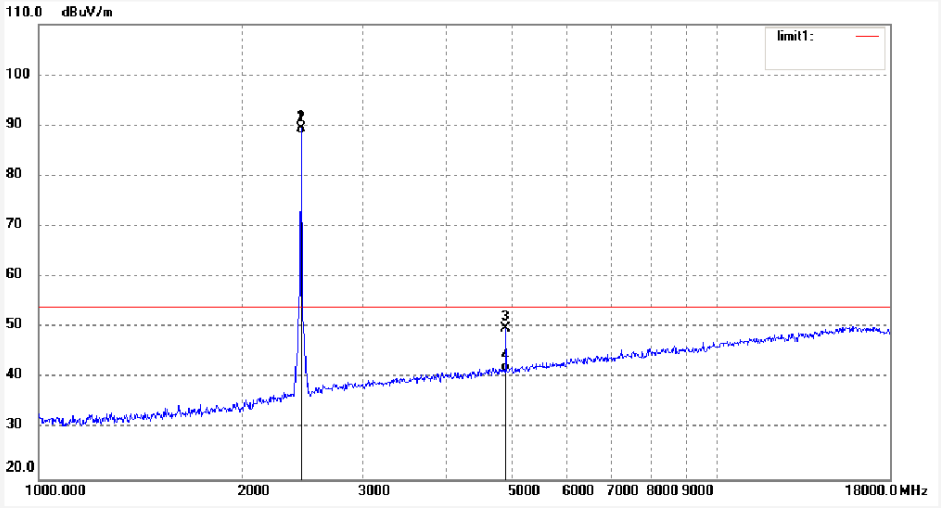
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Igwade #3874
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Radio Remote and Trigger
Mode: TX 2437.999MHz
Model: XMTRC
Manufacturer:

Polarization: Horizontal
Power Source: DC 3V
Date: 16/10/29/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bowens



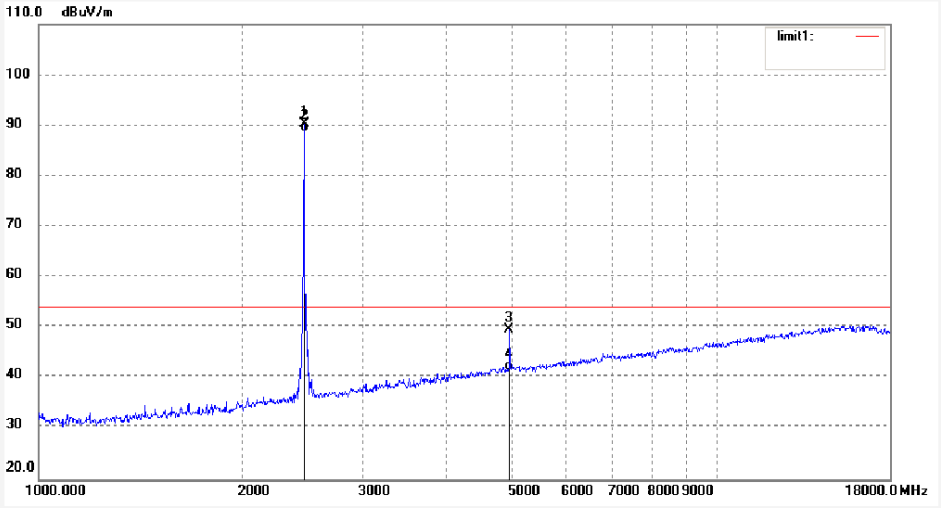
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.999	96.87	-7.36	89.51	114.00	-24.49	peak			
2	2437.999	95.57	-7.36	88.21	94.00	-5.79	AVG			
3	4876.015	49.76	0.11	49.87	74.00	-24.13	peak			
4	4876.015	41.22	0.11	41.33	54.00	-12.67	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.: Igwade #3877	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



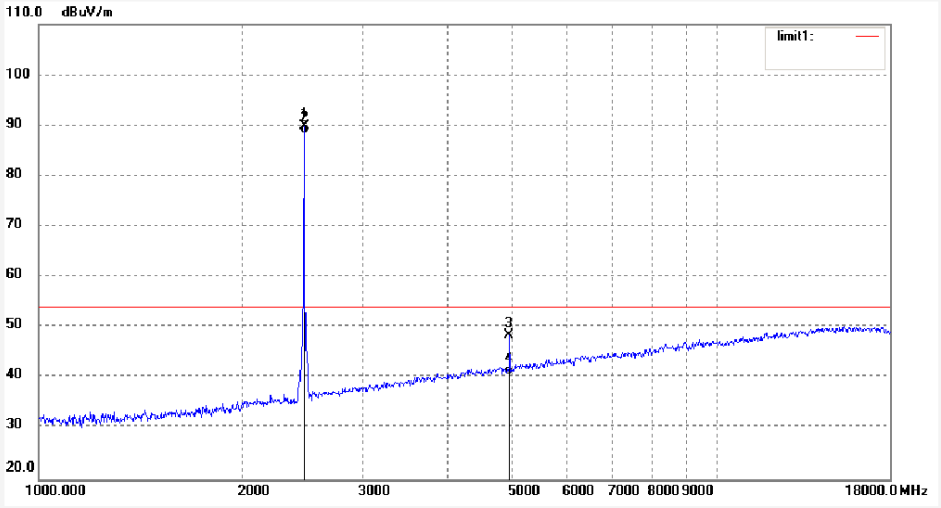
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2464.499	97.69	-7.35	90.34	114.00	-23.66	peak			
2	2464.499	96.19	-7.35	88.84	94.00	-5.16	AVG			
3	4929.020	49.24	0.37	49.61	74.00	-24.39	peak			
4	4929.020	41.18	0.37	41.55	54.00	-12.45	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.: Igwade #3876	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



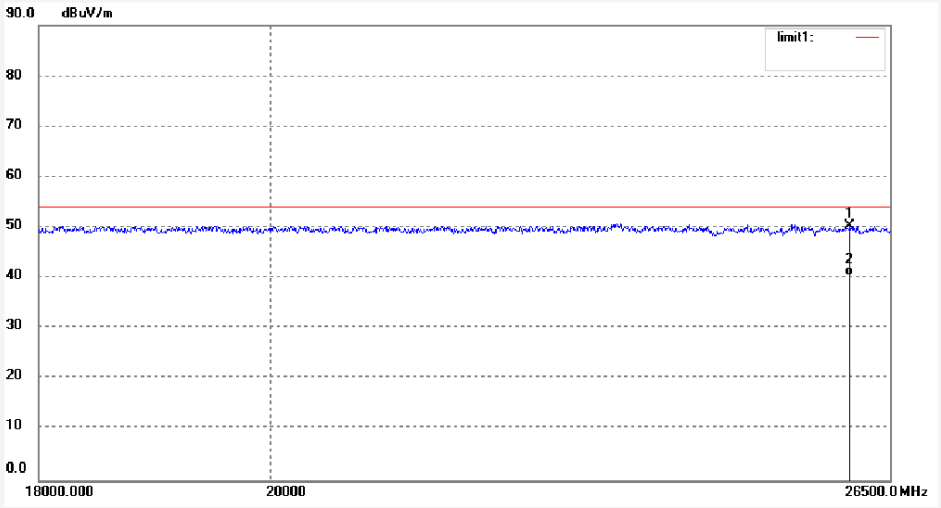
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2464.499	97.21	-7.35	89.86	114.00	-24.14	peak			
2	2464.499	95.71	-7.35	88.36	94.00	-5.64	AVG			
3	4928.999	48.00	0.37	48.37	74.00	-25.63	peak			
4	4928.999	40.26	0.37	40.63	54.00	-13.37	AVG			

18GHz - 26.5GHz

ATC®
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.: Igwade #3880	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



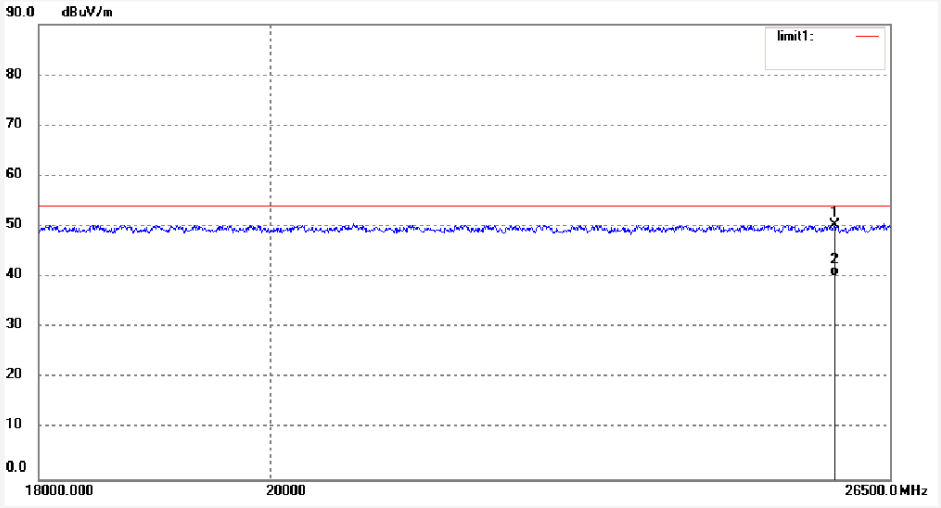
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26022.626	33.15	17.22	50.37	74.00	-23.63	peak			
2	26022.626	23.11	17.22	40.33	54.00	-13.67	AVG			

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.: Igwade #3881	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



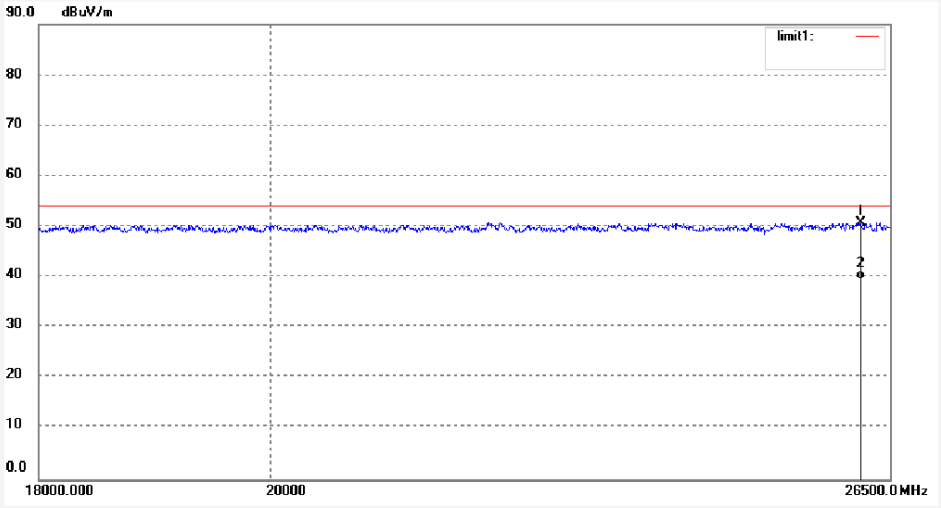
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25842.088	33.77	16.50	50.27	74.00	-23.73	peak			
2	25842.088	23.75	16.50	40.25	54.00	-13.75	AVG			

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.: Igwade #3883	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2437.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



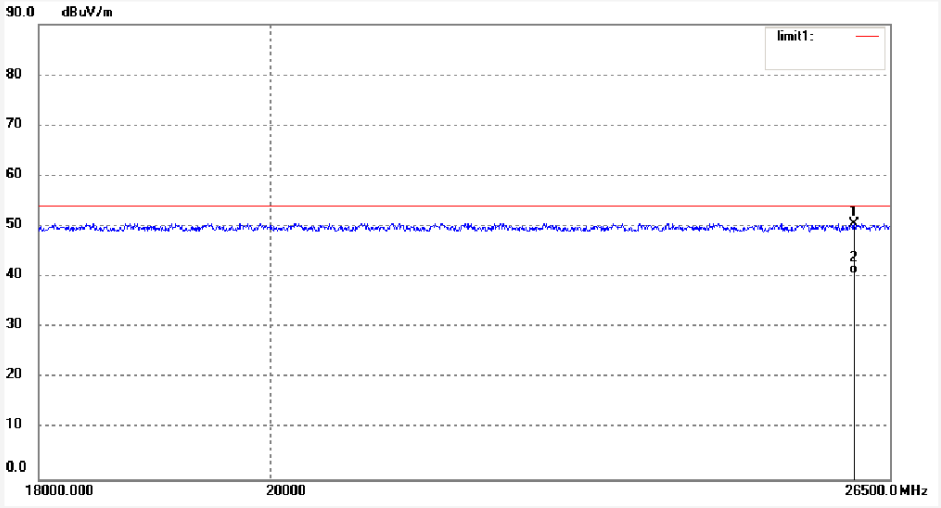
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26153.799	33.55	17.13	50.68	74.00	-23.32	peak			
2	26153.799	22.41	17.13	39.54	54.00	-14.46	AVG			

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.: Igwade #3882	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2437.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



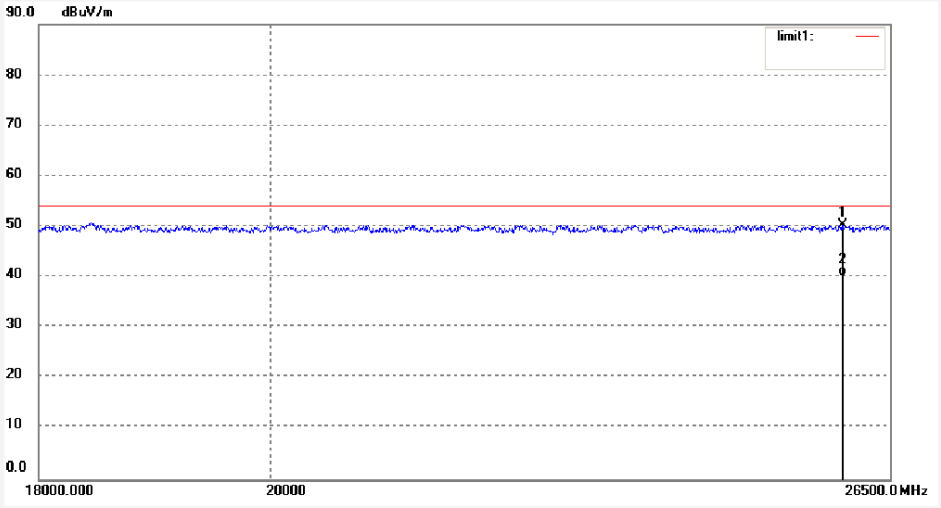
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.999	33.97	16.50	50.47	74.00	-23.53	peak			
2	26072.999	24.01	16.50	40.51	54.00	-13.49	AVG			

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.: Igwade #3885	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



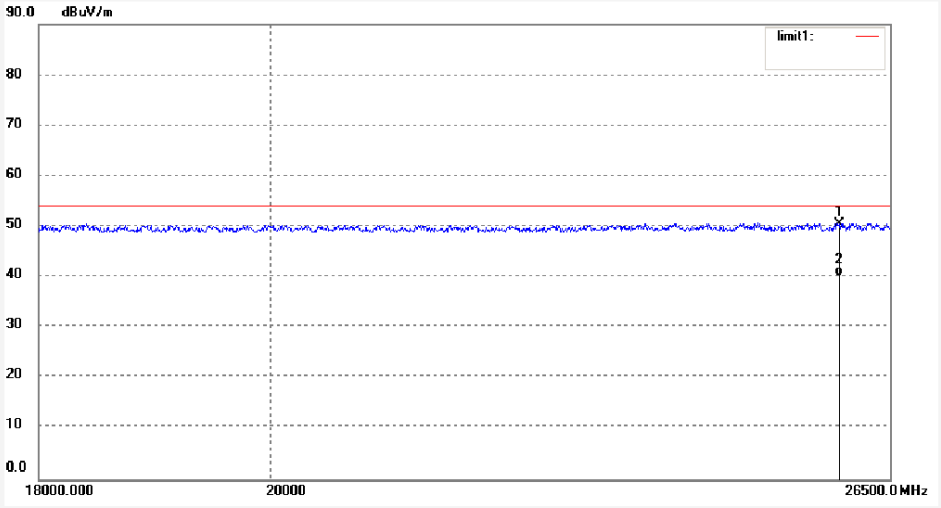
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25932.200	33.77	16.50	50.27	74.00	-23.73	peak			
2	25932.200	23.61	16.50	40.11	54.00	-13.89	AVG			

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.: Igwade #3884	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25892.112	33.24	17.31	50.55	74.00	-23.45	peak			
2	25892.112	22.93	17.31	40.24	54.00	-13.76	AVG			

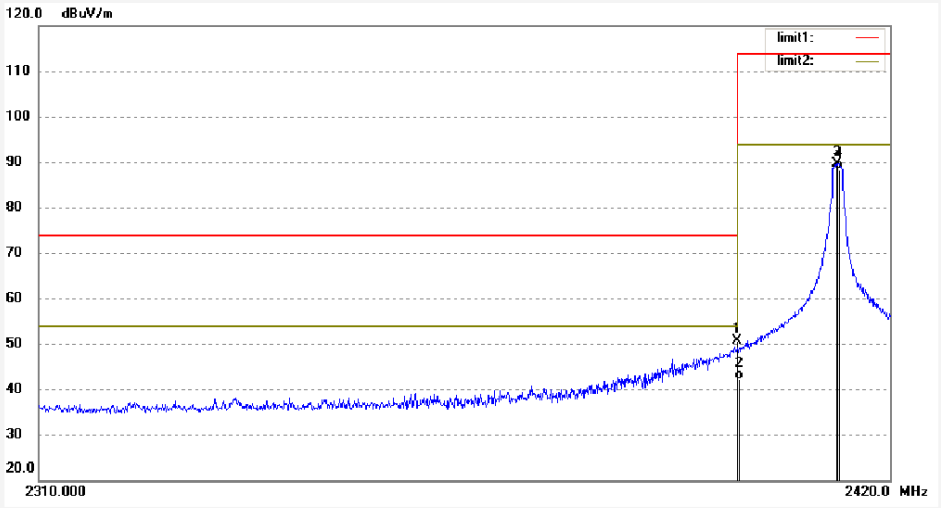
Appendix A.2: Test Plots of Band Edge (Radiated)

Low Channel

ATC®
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.: Igwade #3872	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



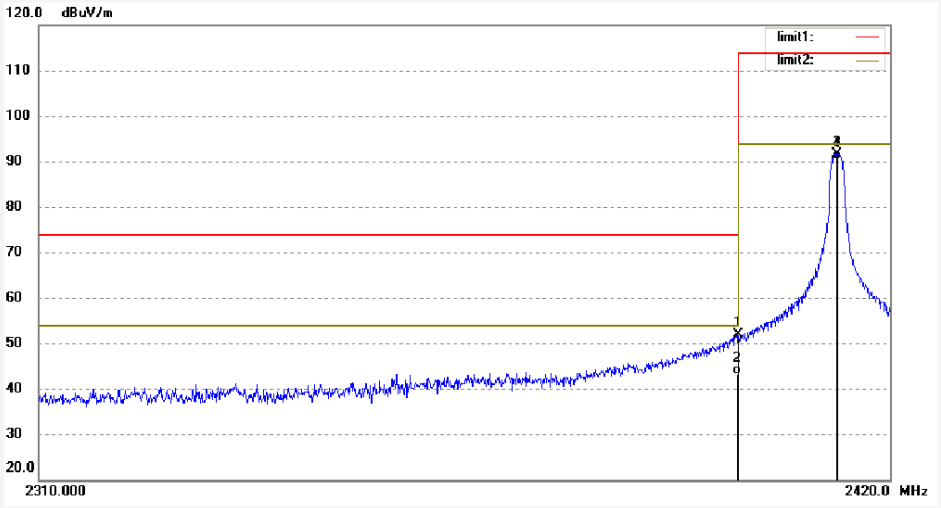
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	58.05	-7.46	50.59	74.00	-23.41	peak			
2	2400.000	49.69	-7.46	42.23	54.00	-11.77	AVG			
3	2412.999	97.09	-7.43	89.66	114.00	-24.34	peak			
4	2412.999	95.69	-7.43	88.26	94.00	-5.74	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.: Igwade #3873	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2412.999MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	59.22	-7.46	51.76	74.00	-22.24	peak			
2	2400.000	50.71	-7.46	43.25	54.00	-10.75	AVG			
3	2412.999	99.10	-7.43	91.67	114.00	-22.33	peak			
4	2412.999	97.70	-7.43	90.27	94.00	-3.73	AVG			

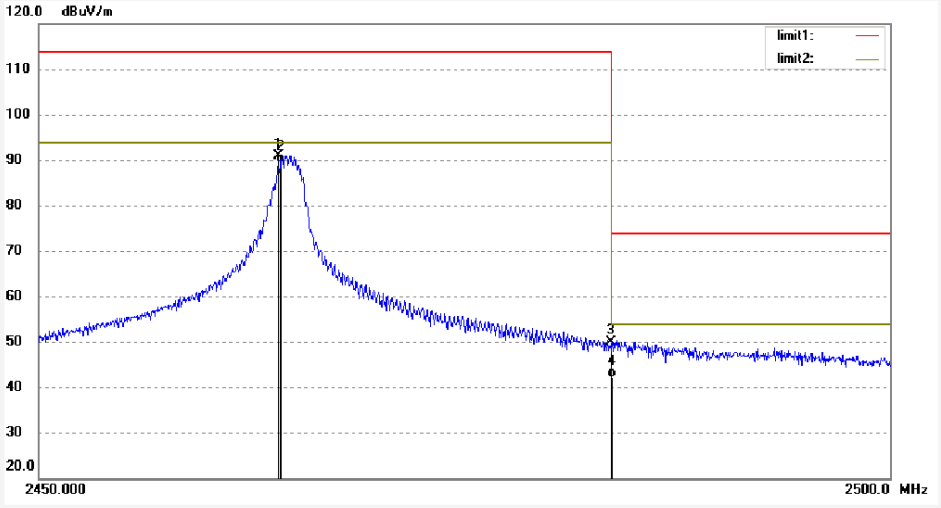
High Channel

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.: lgwade #3878	Polarization: Horizontal
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



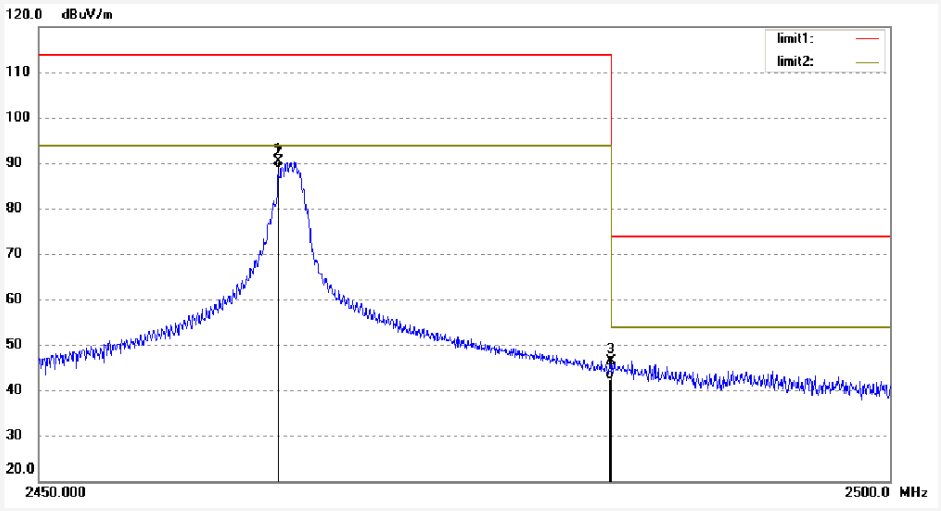
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2464.499	98.23	-7.35	90.88	114.00	-23.12	peak			
2	2464.499	96.73	-7.35	89.38	94.00	-4.62	AVG			
3	2483.500	57.25	-7.37	49.88	74.00	-24.12	peak			
4	2483.500	49.58	-7.37	42.21	54.00	-11.79	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.: Igwade #3879	Polarization: Vertical
Standard: FCC Part 15 (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/10/29/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Radio Remote and Trigger	Engineer Signature: LGWADE
Mode: TX 2464.499MHz	Distance: 3m
Model: XMTRC	
Manufacturer:	

Note: Bowens



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2464.000	97.66	-7.35	90.31	114.00	-23.69	peak			
2	2464.000	96.16	-7.35	88.81	94.00	-5.19	AVG			
3	2483.500	53.68	-7.37	46.31	74.00	-27.69	peak			
4	2483.500	49.72	-7.37	42.35	54.00	-11.65	AVG			