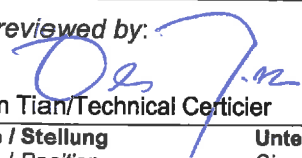


Prüfbericht-Nr.: <i>Test Report No.:</i>	50058255 001	Auftrags-Nr.: <i>Order No.:</i>	164072163	Seite 1 von 71 Page 1 of 71
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	23.08.2016	
Auftraggeber: <i>Client:</i>	limoss (Shenzhen) Co., Ltd. 1/F & South Wing, 2/F of Block A and North Wing, 1/F of Block E, Hourui 3rd Ind. Park, Xixiang, Bao'an, Shenzhen, Guangdong 518102, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Wireless Receiver			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MC250 (limoss)			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-210 Issue 8 December 2010 ICES-003 Issue 6 January 2016		CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015	
Wareneingangsdatum: <i>Date of receipt:</i>	01.09.2016			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000416439-003			
Prüfzeitraum: <i>Testing period:</i>	06.09.2016 - 20.09.2016			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
10.10.2016  Winnie Hou/Senior Project Manager		10.10.2016  Owen Tian/Technical Certifier		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft 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 specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.3 FUNDAMENTAL & HARMONICS RADIATED EMISSION

RESULT: Pass

5.1.4 RADIATED EMISSIONS OUTSIDE OF THE BAND

RESULT: Pass

5.1.5 CONDUCTED EMISSIONS

RESULT: Pass

5.1.6 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

(Test site Industry Canada No.: 5077A-2)

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

The tests at the test site 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

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2017-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2017-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2017-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2017-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2017-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2017-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2017-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2017-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2017-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2017-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2017-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2017-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2017-01-09
Voltage Probe	Schwarzbeck	TK9416	N/A	2017-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2017-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.2	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.3	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.14	2017-01-09

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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 basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, 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 receiver box of cinema control system, which used for cinema seats mass open and close, it operates at 2.4GHz ISM band.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Wireless Receiver
Type Designation	MC250
FCC ID	2AH9H-MC250
IC	21543-MC250
Operating Frequency Band	2400MHz ~ 2483.5MHz
Operating Frequency	2422.999MHz, 2448.393MHz, 2473.987MHz
Number of Channel	3
Extreme Temperature Range	0~+40°C
Operation Voltage	DC 29V
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Transmitting
 - 2. Receiving
- B. On, without wireless mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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3.5 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

4.2 Test Operation and Test Software

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

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC adapter	limoss	MC115L-70-EU	Input: AC 100-240V, 50/60Hz, 1.6-1.7A; Output: DC 29V, 2.0A
Motor	OKIN	JLDQ-10	MAX load: 4000N

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test for below 1GHz

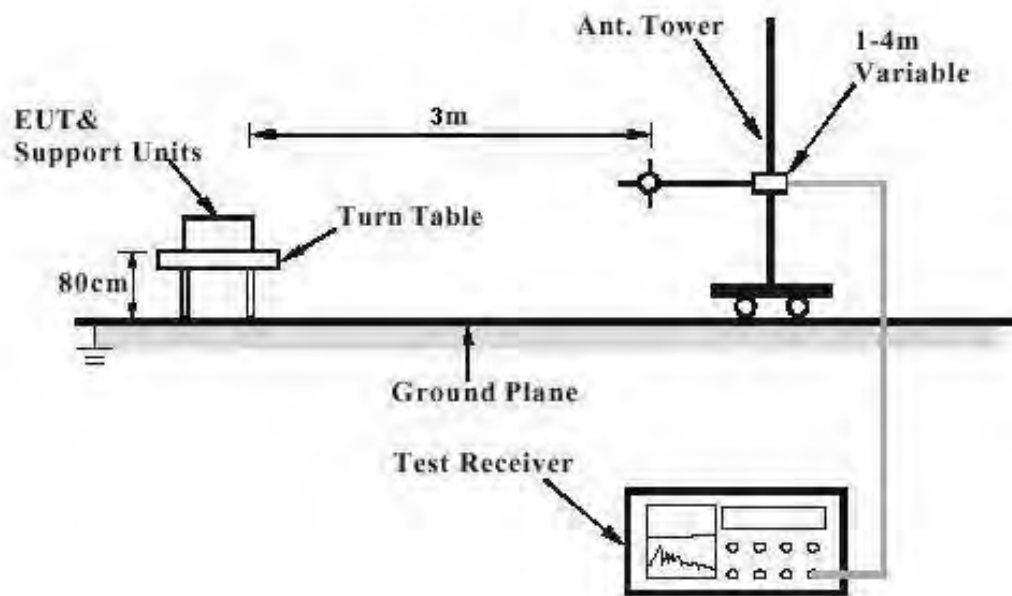


Diagram of Measurement Configuration for Radiation Test for above 1GHz

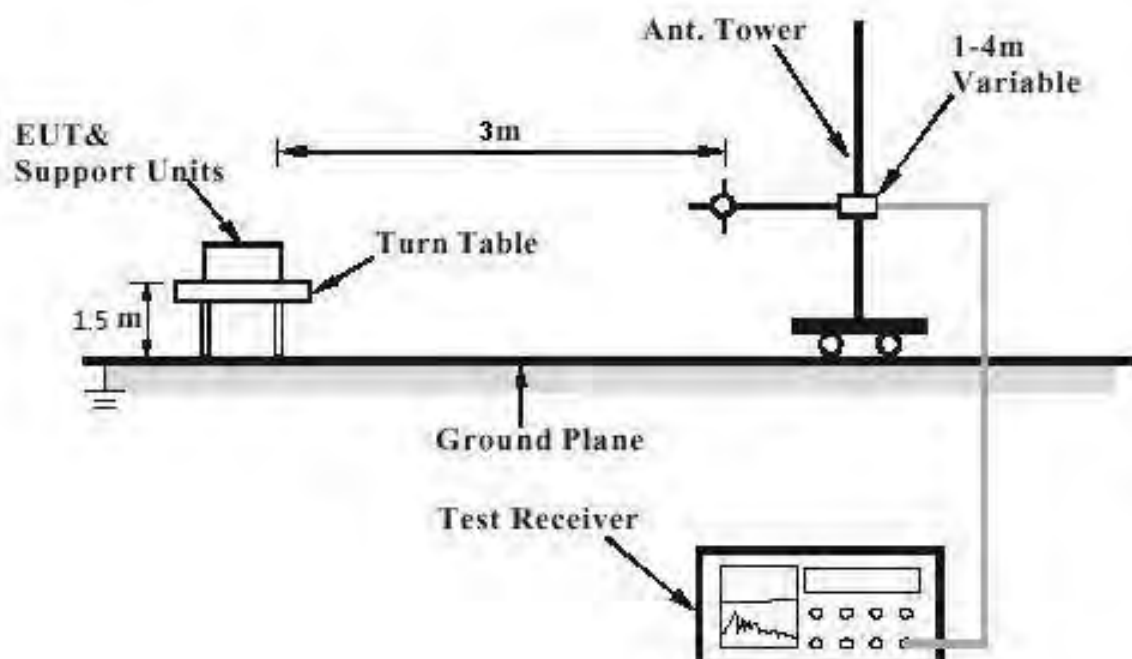


Diagram of Measurement Equipment Configuration for Transmitter Measurement

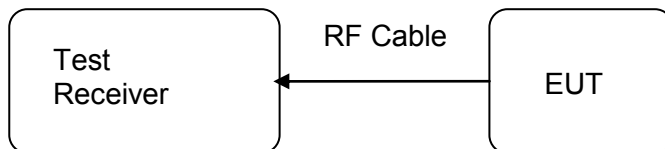
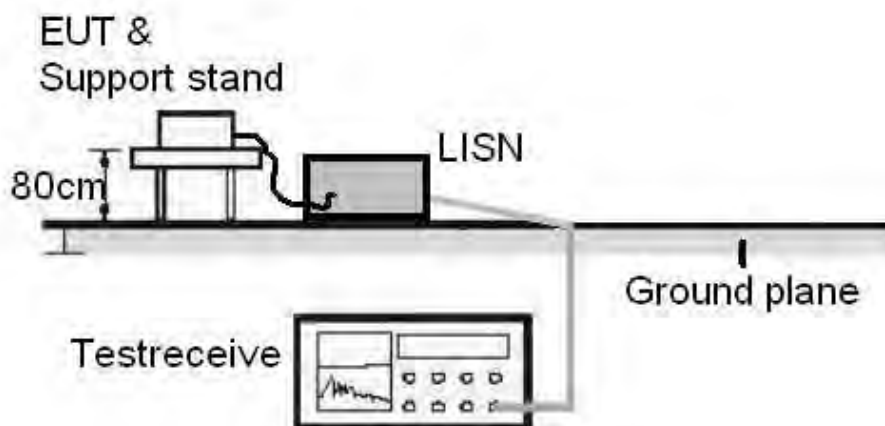


Diagram of Measurement Equipment Configuration for Conduction Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard	:	Part 15.203 RSS-Gen 8.3
Limit	:	the use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -3.4dBi, therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2016-09-07
Test standard : FCC Part 15.215 (c)
RSS-Gen clause 6.6
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded room

Test setup

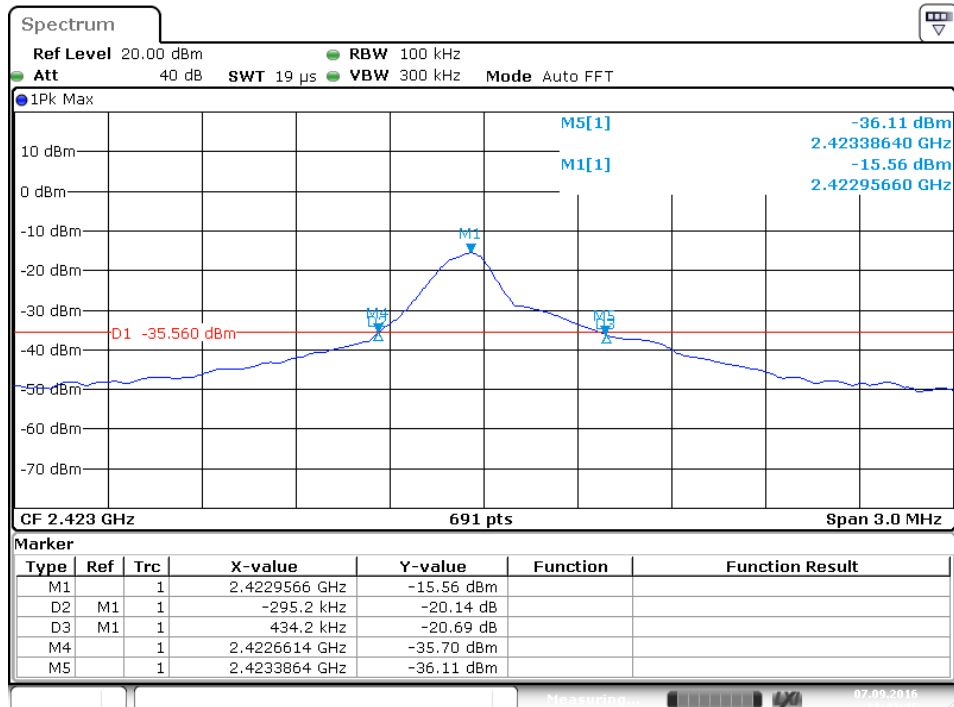
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 21°C
Relative humidity : 60%
Atmospheric pressure : 101kPa

Table 4: Test result of 20dB & 99% Bandwidth

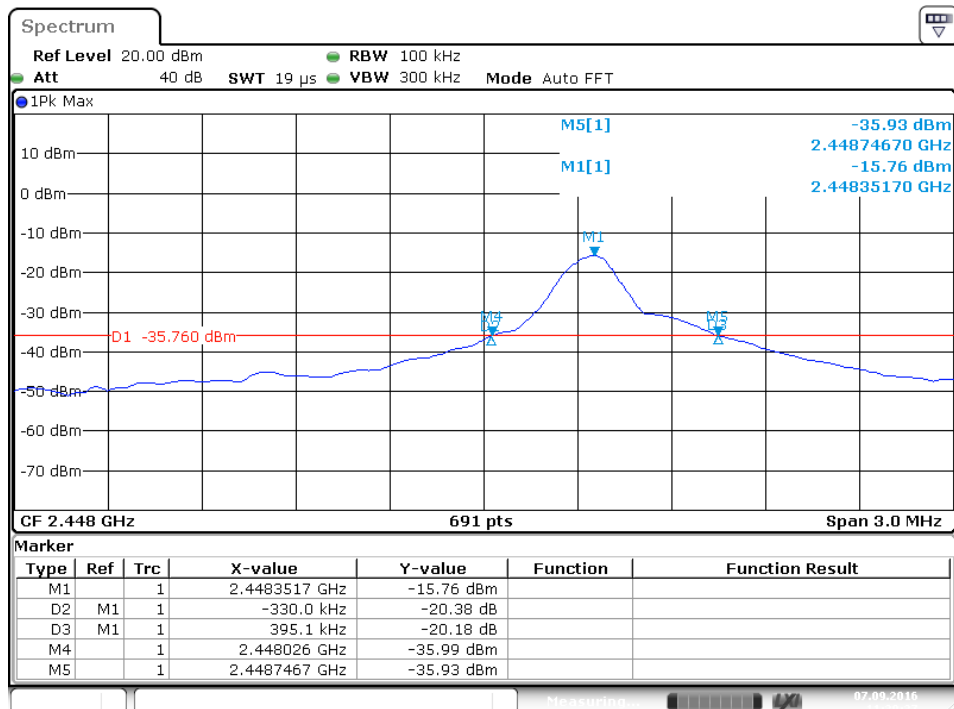
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	0.729	1.211
Mid Channel	2448.393	0.725	1.255
High Channel	2473.987	0.695	1.242

For details refer to following test plot.

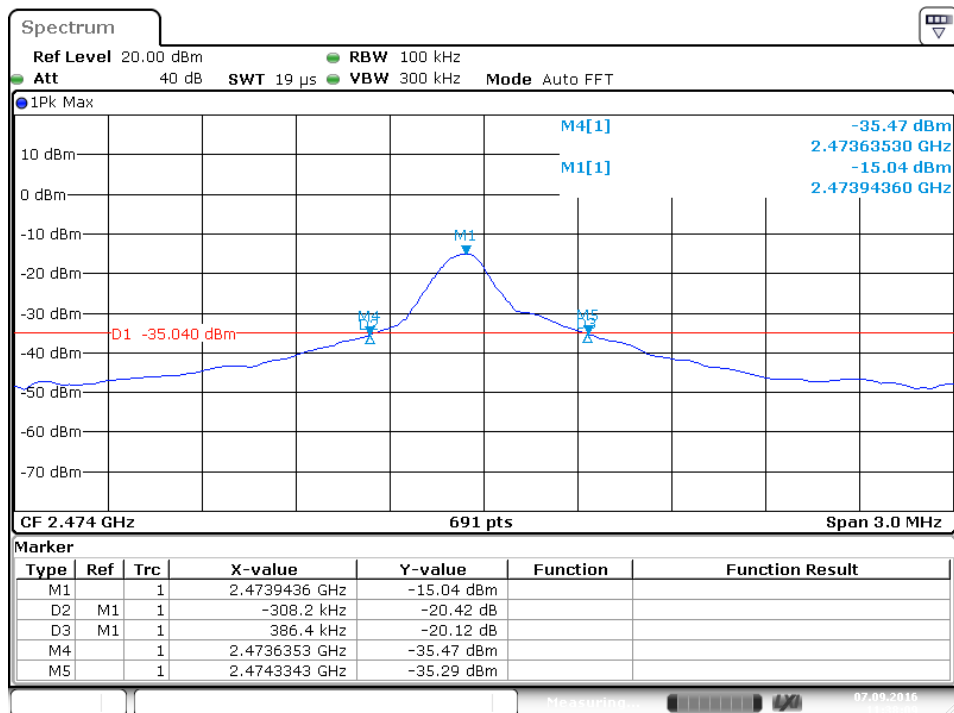
Test Plot of 20dB Bandwidth



Date: 7.SEP.2016 11:42:45

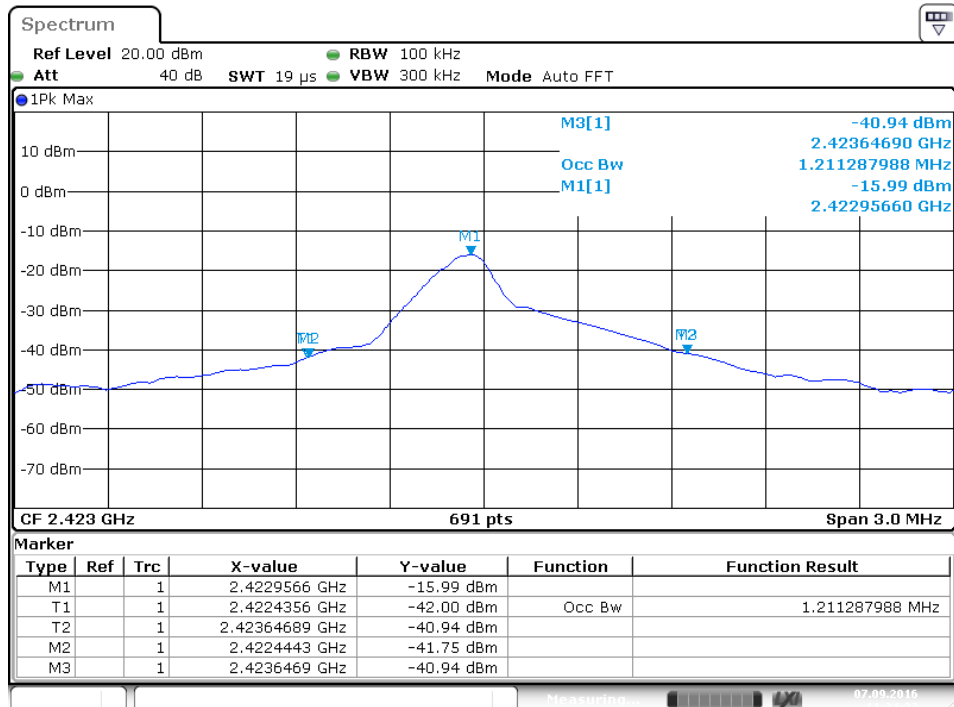


Date: 7.SEP.2016 11:39:37

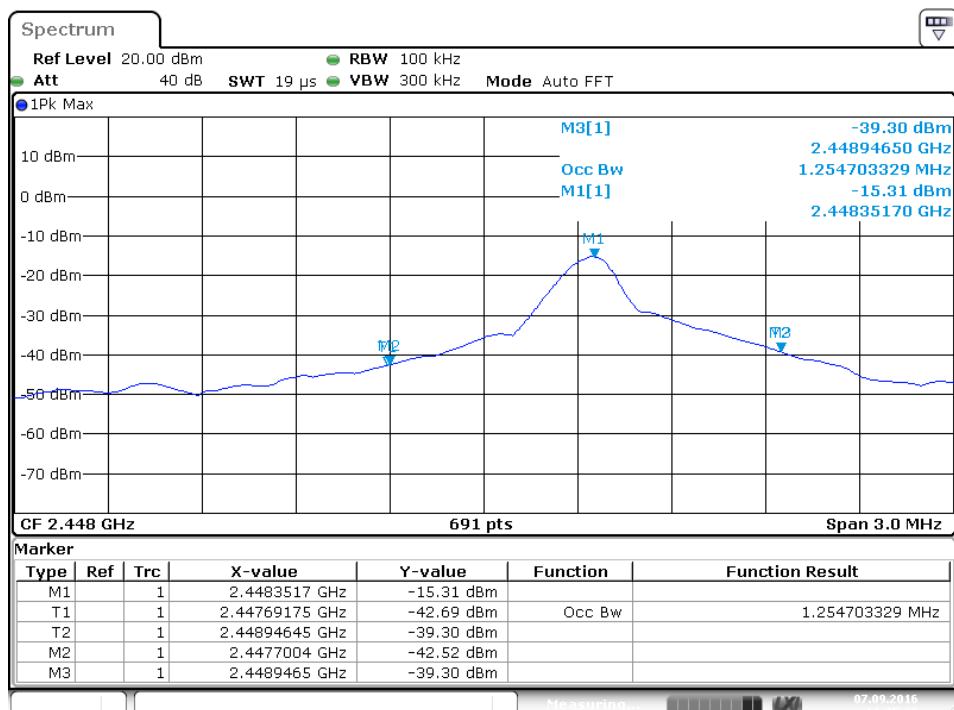


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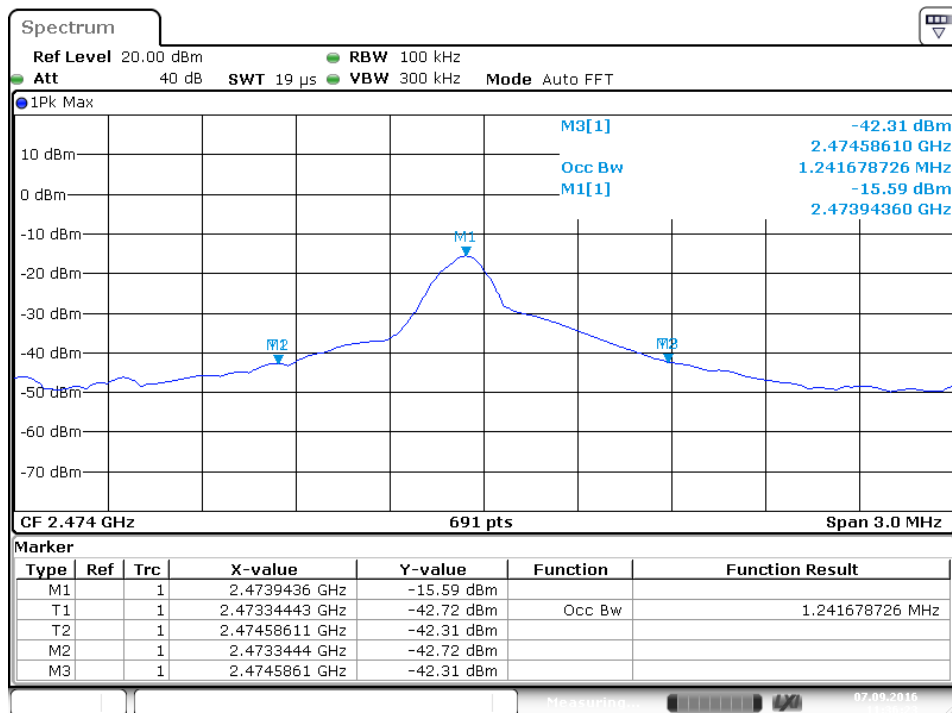
Test Plot of 99% Bandwidth



Date: 7.SEP.2016 11:34:23



Date: 7.SEP.2016 11:35:28



Date: 7.SEP.2016 11:36:23

For details refer to following test plot.


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3345

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

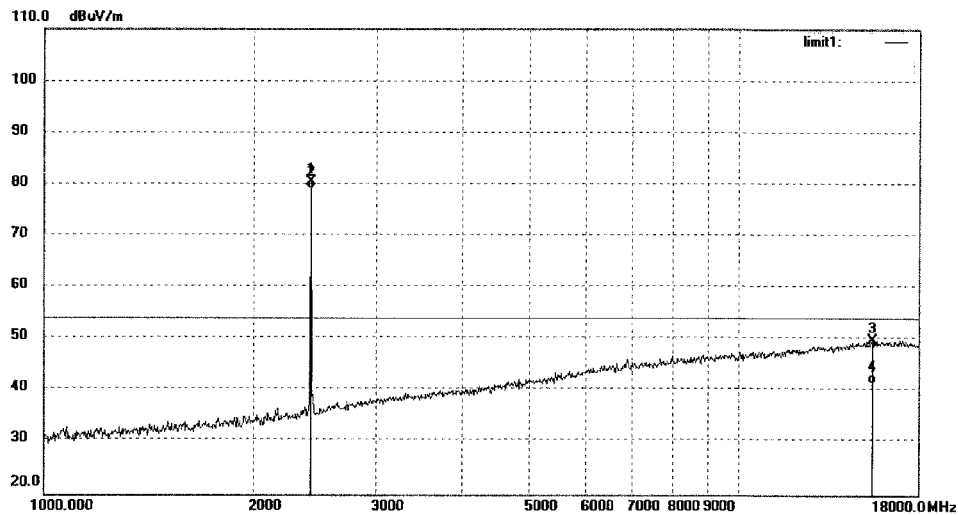
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	87.82	-7.40	80.42	114.00	-33.58	peak			
2	2422.999	86.52	-7.40	79.12	94.00	-14.88	AVG			
3	15443.405	9.59	40.21	49.80	74.00	-24.20	peak			
4	15443.405	1.18	40.21	41.39	54.00	-12.61	AVG			


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Job No.: Igwade #3346

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

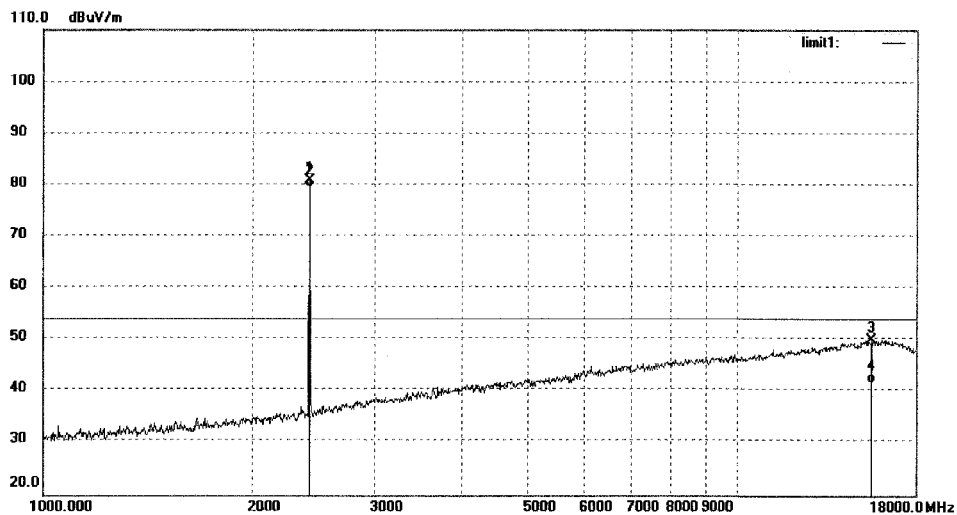
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	88.23	-7.40	80.83	114.00	-33.17	peak			
2	2422.999	86.93	-7.40	79.53	94.00	-14.47	AVG			
3	15532.938	9.87	40.09	49.96	74.00	-24.04	peak			
4	15532.938	1.58	40.09	41.67	54.00	-12.33	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: lgwade #3349

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

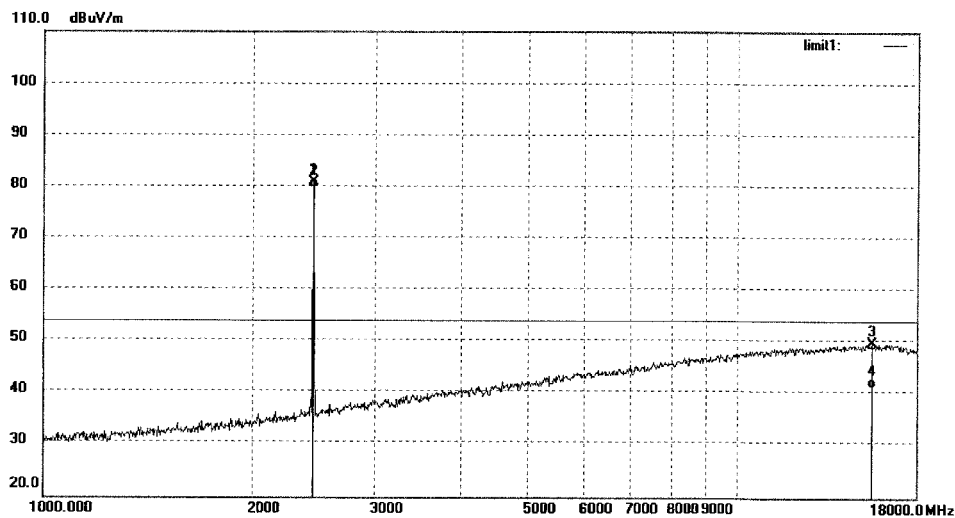
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	88.29	-7.34	80.95	114.00	-33.05	peak			
2	2448.393	86.99	-7.34	79.65	94.00	-14.35	AVG			
3	15488.107	9.63	40.12	49.75	74.00	-24.25	peak			
4	15488.107	1.15	40.12	41.27	54.00	-12.73	AVG			


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Job No.: Igwade #3350

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

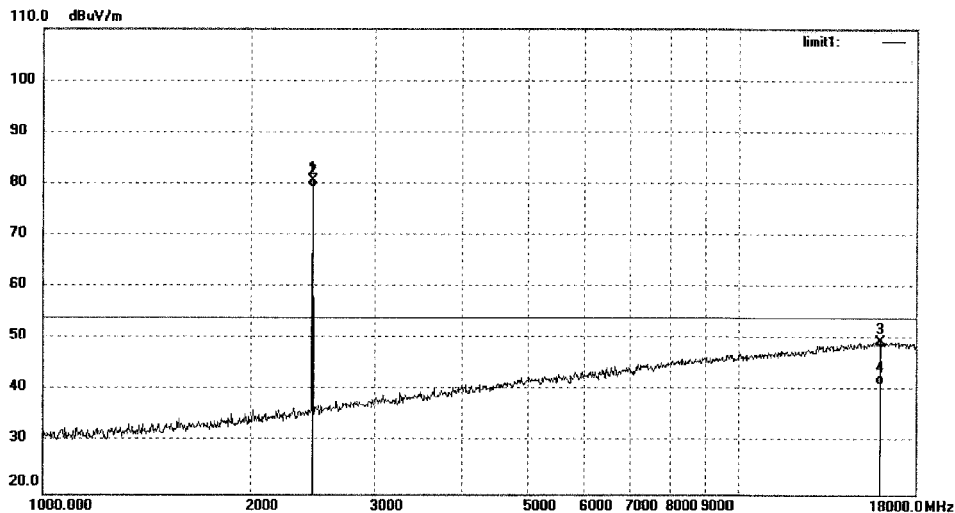
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	87.94	-7.34	80.60	114.00	-33.40	peak			
2	2448.393	86.64	-7.34	79.30	94.00	-14.70	AVG			
3	15988.449	9.51	40.00	49.51	74.00	-24.49	peak			
4	15988.449	1.24	40.00	41.24	54.00	-12.76	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: Igwade #3352

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

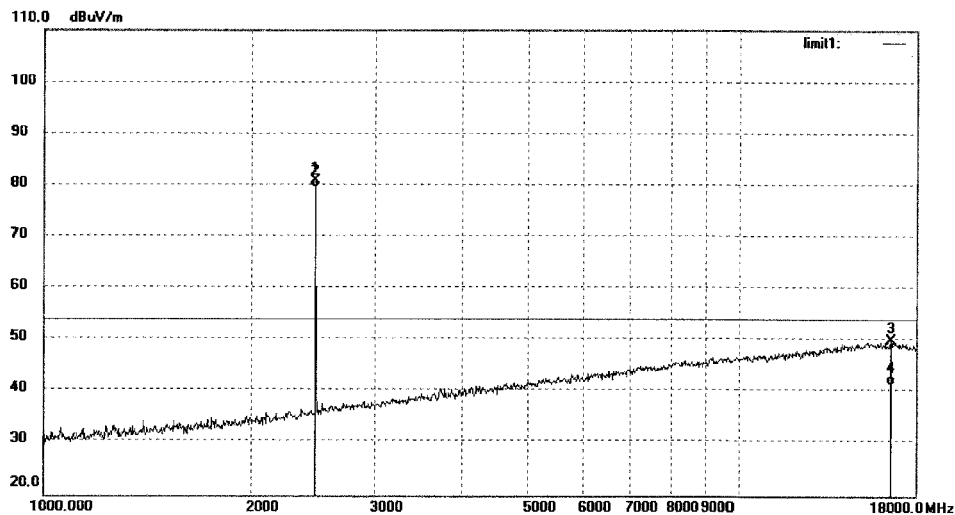
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	88.17	-7.37	80.80	114.00	-33.20	peak			
2	2473.987	86.87	-7.37	79.50	94.00	-14.50	AVG			
3	16552.729	9.50	40.45	49.95	74.00	-24.05	peak			
4	16552.729	1.09	40.45	41.54	54.00	-12.46	AVG			


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

Job No.: Igwade #3351

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

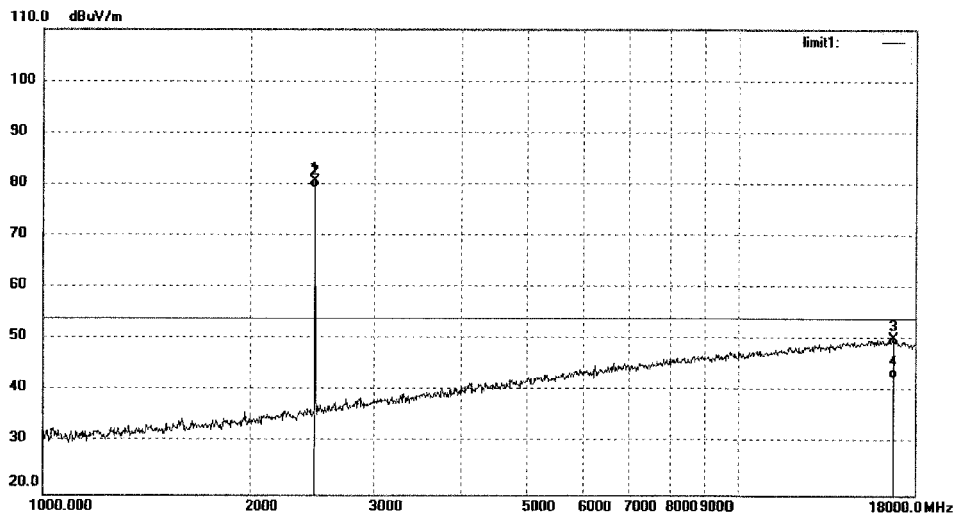
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	87.97	-7.37	80.60	114.00	-33.40	peak			
2	2473.987	86.67	-7.37	79.30	94.00	-14.70	AVG			
3	16745.214	9.20	40.99	50.19	74.00	-23.81	peak			
4	16745.214	1.58	40.99	42.57	54.00	-11.43	AVG			

5.1.4 Radiated emissions outside of the band**RESULT:****Pass**

Date of testing	:	2016-09-13
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d) RSS-210 Clause A2.9(b)
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.009 – 26500MHz
Limits	:	FCC Part 15.209(a) FCC Part 15.249(d)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test Setup

Test channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Radiated emissions outside band

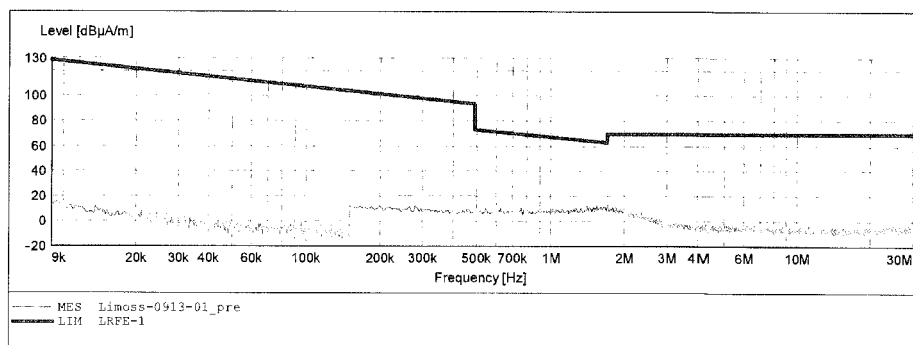
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 9.0 kHz	Frequency 150.0 kHz	Width 100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



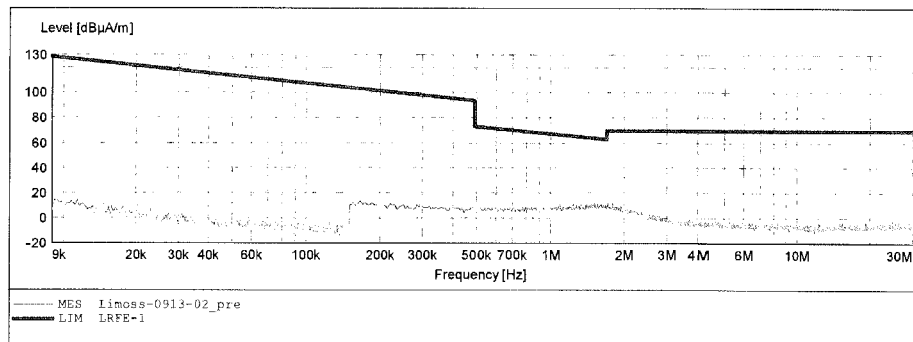
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

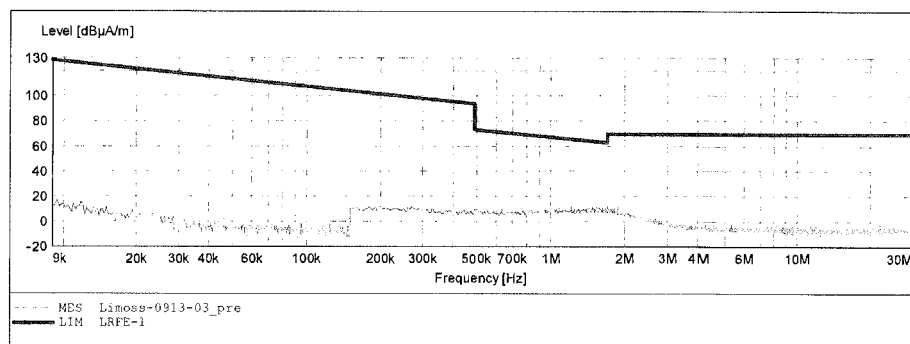


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

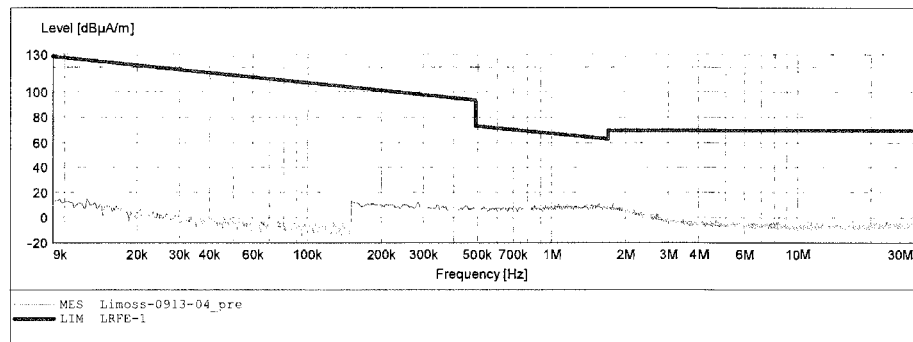


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

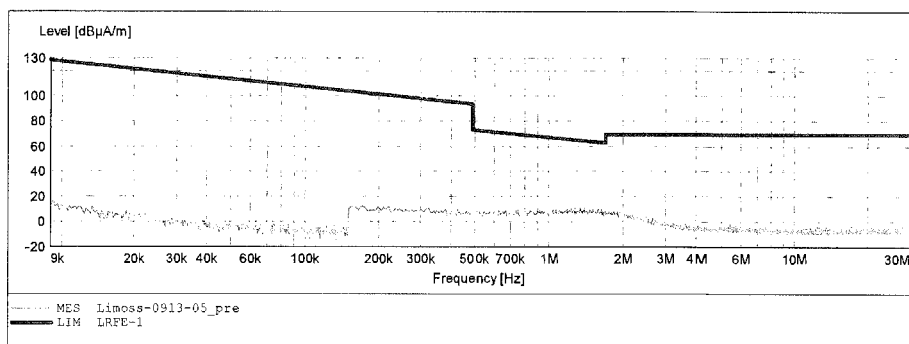


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

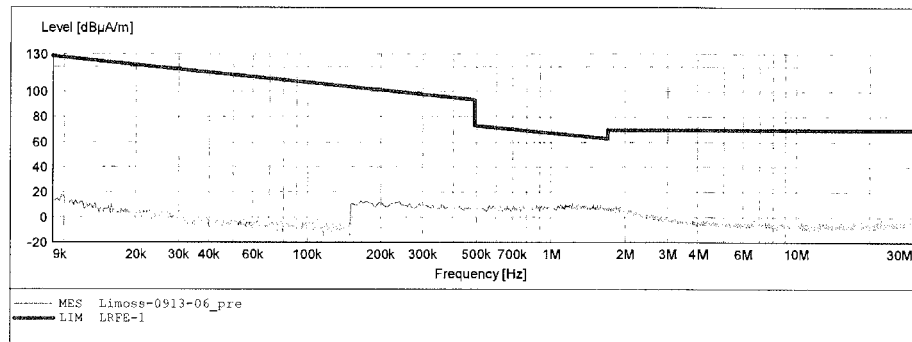


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

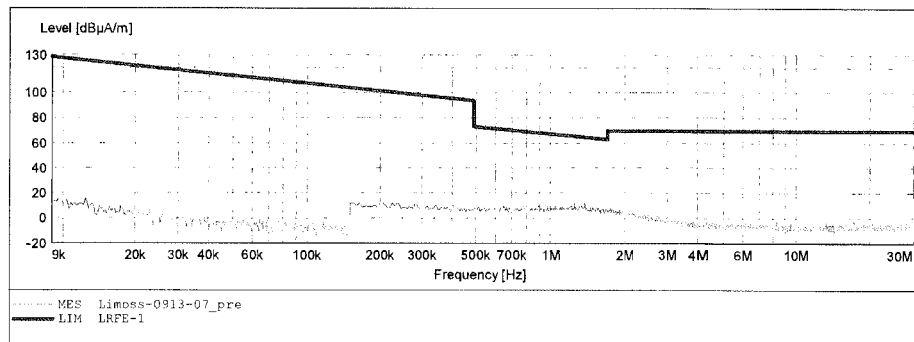


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

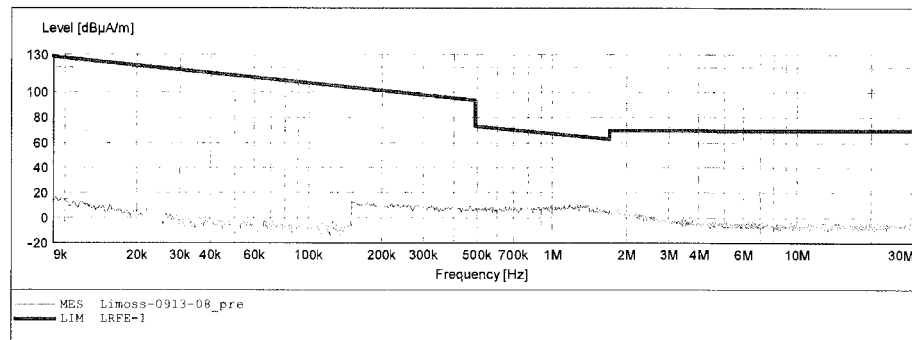


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

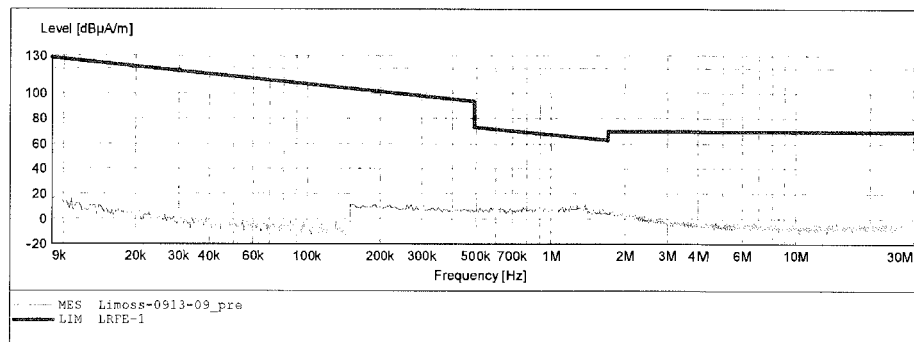


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: 2
 Start of Test: 2016-9-13 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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Job No.: Igwade #3384

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

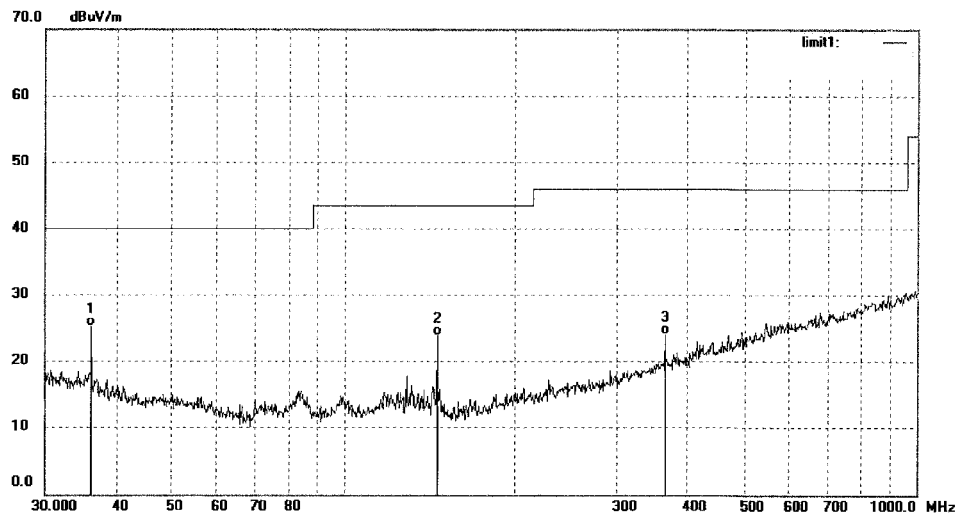
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.1272	36.05	-10.68	25.37	40.00	-14.63	QP			
2	146.3735	39.09	-15.21	23.88	43.50	-19.62	QP			
3	364.2595	31.71	-7.57	24.14	46.00	-21.86	QP			


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Job No.: Igwade #3383

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

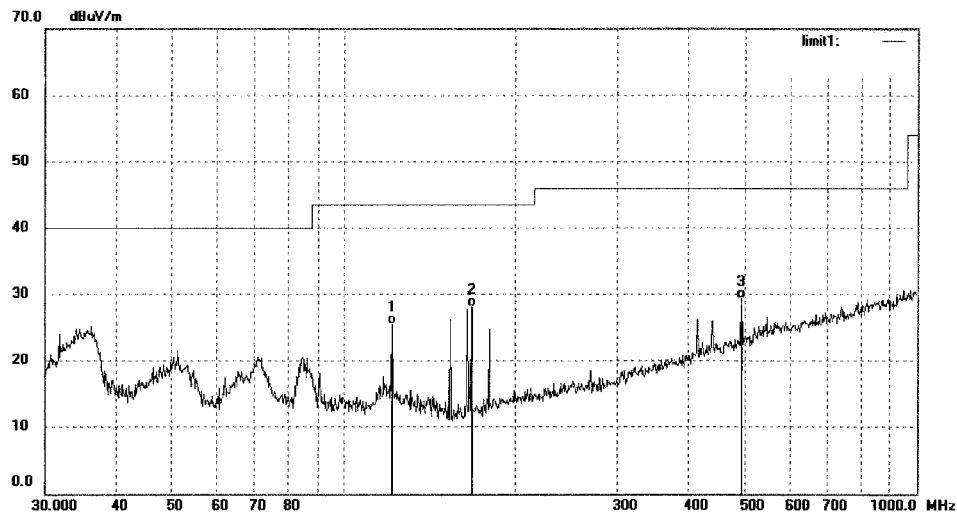
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.5485	38.81	-13.32	25.49	43.50	-18.01	QP			
2	168.4138	42.00	-13.93	28.07	43.50	-15.43	QP			
3	494.1983	34.46	-5.06	29.40	46.00	-16.60	QP			


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Job No.: Igwade #3385

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

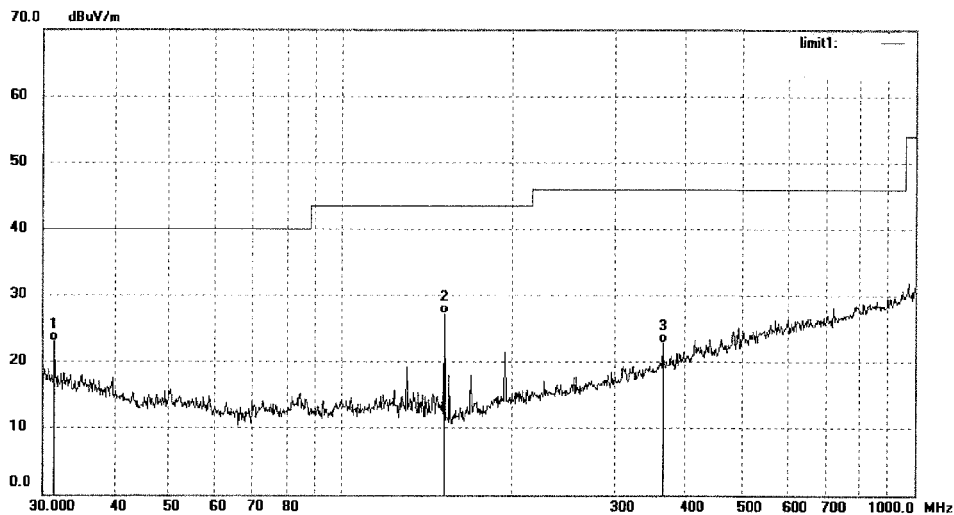
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.3992	33.11	-10.06	23.05	40.00	-16.95	QP			
2	152.1297	42.38	-15.14	27.24	43.50	-16.26	QP			
3	364.2595	30.36	-7.57	22.79	46.00	-23.21	QP			


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Job No.: Igwade #3386

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

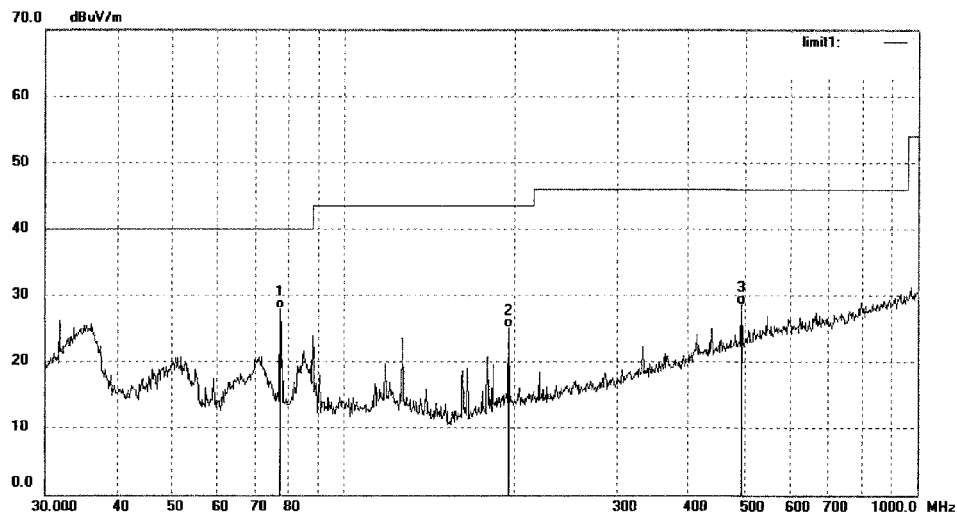
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.3212	44.58	-16.65	27.93	40.00	-12.07	QP			
2	195.1365	37.55	-12.47	25.08	43.50	-18.42	QP			
3	494.1983	33.67	-5.06	28.61	46.00	-17.39	QP			


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Job No.: Igwade #3388

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

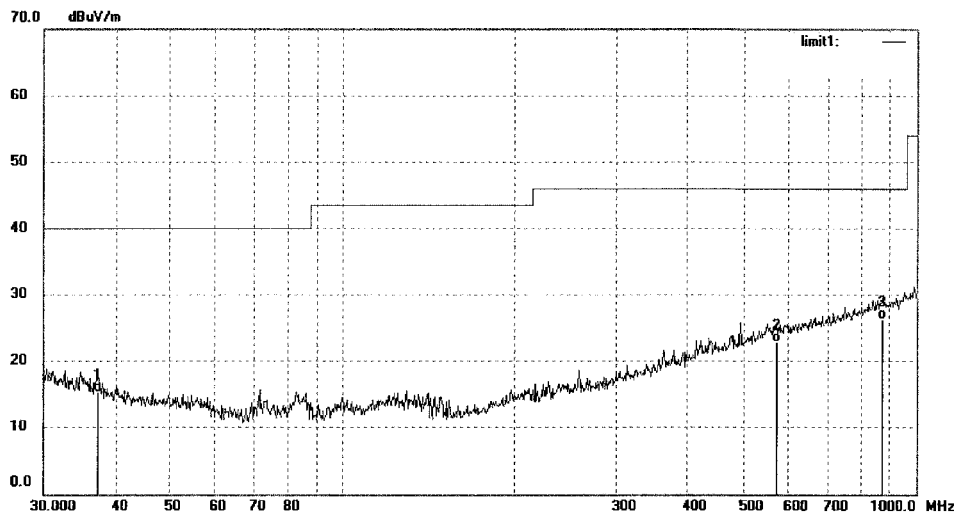
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	37.2854	26.32	-10.93	15.39	40.00	-24.61	QP			
2	572.6144	26.04	-3.25	22.79	46.00	-23.21	QP			
3	872.1832	25.35	1.07	26.42	46.00	-19.58	QP			


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Job No.: Igwade #3387

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

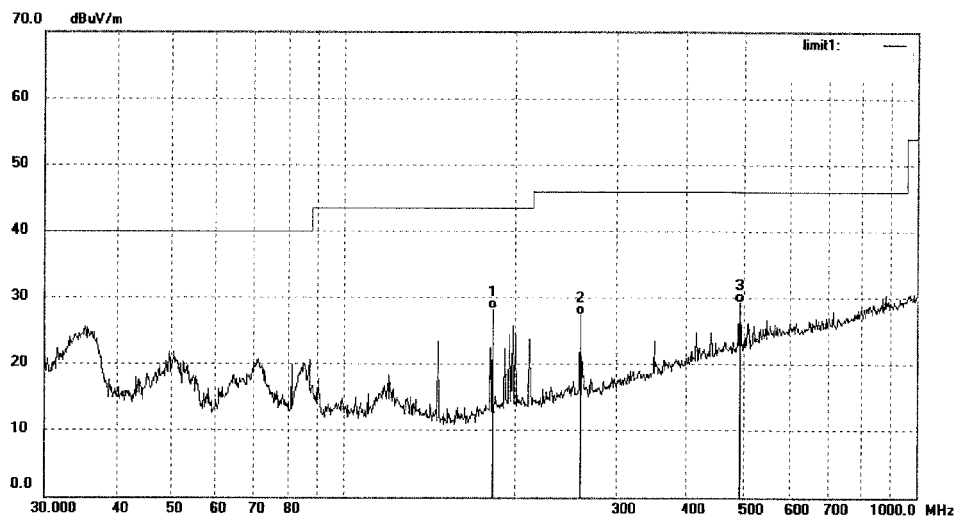
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	183.2005	41.32	-12.99	28.33	43.50	-15.17	QP			
2	259.2337	38.19	-10.73	27.46	46.00	-18.54	QP			
3	494.1983	34.33	-5.06	29.27	46.00	-16.73	QP			


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Job No.: Igwade #3345

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

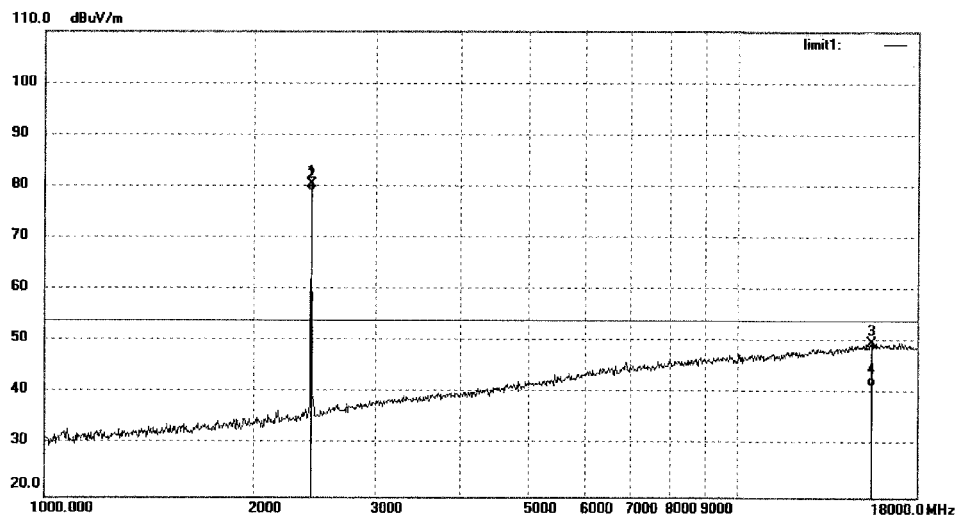
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	87.82	-7.40	80.42	114.00	-33.58	peak			
2	2422.999	86.52	-7.40	79.12	94.00	-14.88	AVG			
3	15443.405	9.59	40.21	49.80	74.00	-24.20	peak			
4	15443.405	1.18	40.21	41.39	54.00	-12.61	AVG			


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Fax:+86-0755-26503396

Job No.: lgwade #3346

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

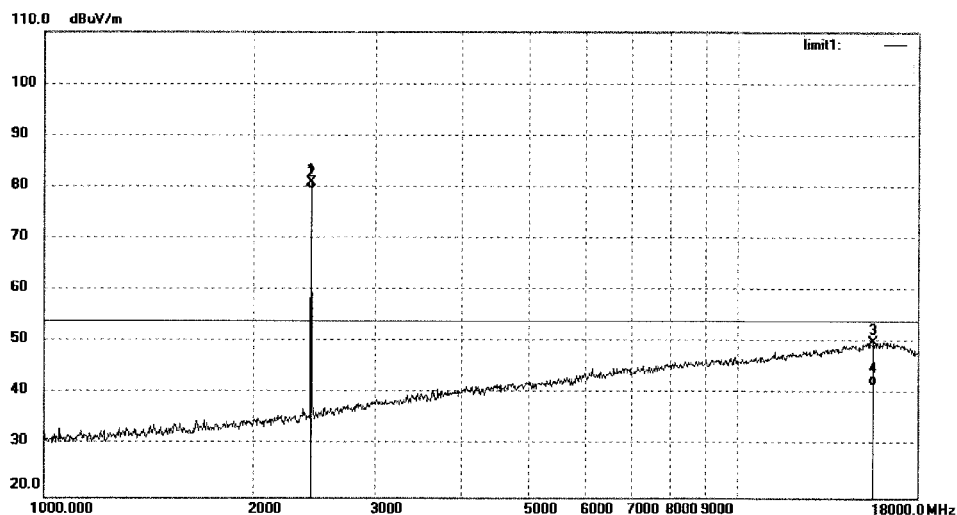
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	88.23	-7.40	80.83	114.00	-33.17	peak			
2	2422.999	86.93	-7.40	79.53	94.00	-14.47	AVG			
3	15532.938	9.87	40.09	49.96	74.00	-24.04	peak			
4	15532.938	1.58	40.09	41.67	54.00	-12.33	AVG			


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Site: 2# Chamber

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Job No.: Igwade #3349

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

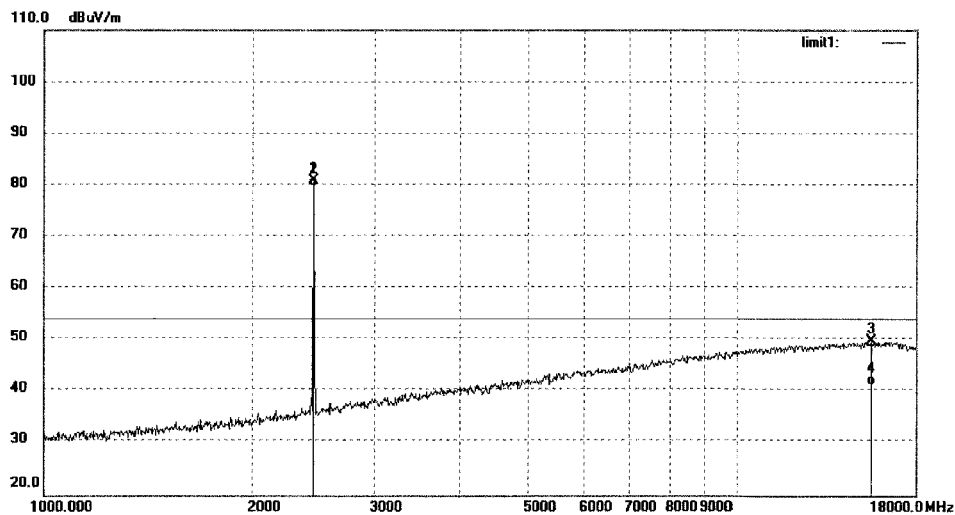
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	88.29	-7.34	80.95	114.00	-33.05	peak			
2	2448.393	86.99	-7.34	79.65	94.00	-14.35	AVG			
3	15488.107	9.63	40.12	49.75	74.00	-24.25	peak			
4	15488.107	1.15	40.12	41.27	54.00	-12.73	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Fax:+86-0755-26503396

Job No.: Igwade #3350

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

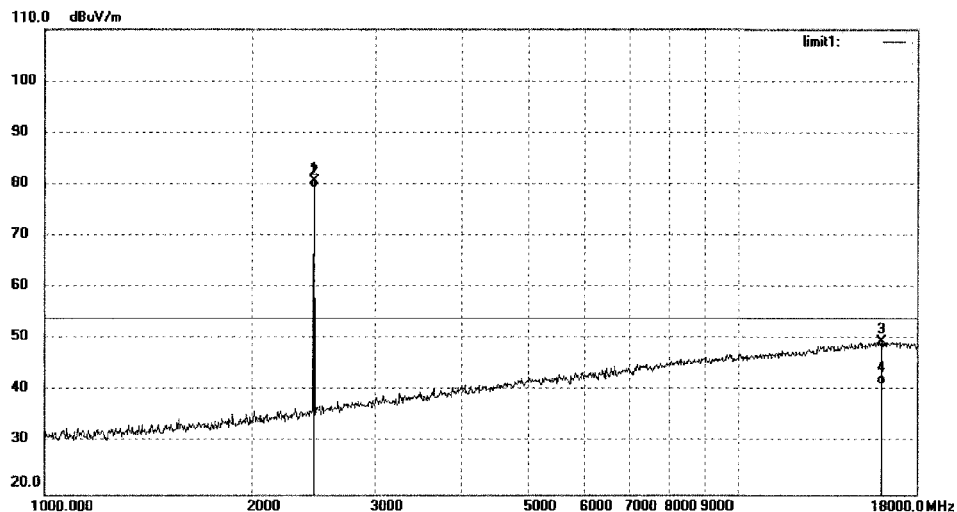
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	87.94	-7.34	80.60	114.00	-33.40	peak			
2	2448.393	86.64	-7.34	79.30	94.00	-14.70	AVG			
3	15988.449	9.51	40.00	49.51	74.00	-24.49	peak			
4	15988.449	1.24	40.00	41.24	54.00	-12.76	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: Igwade #3352

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

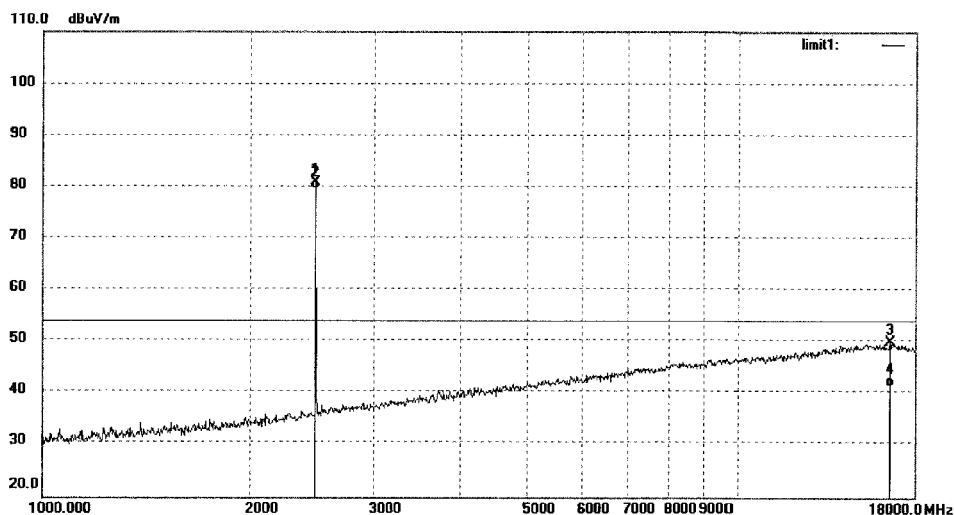
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	88.17	-7.37	80.80	114.00	-33.20	peak			
2	2473.987	86.87	-7.37	79.50	94.00	-14.50	AVG			
3	16552.729	9.50	40.45	49.95	74.00	-24.05	peak			
4	16552.729	1.09	40.45	41.54	54.00	-12.46	AVG			


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Fax:+86-0755-26503396

Job No.: Igwade #3351

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

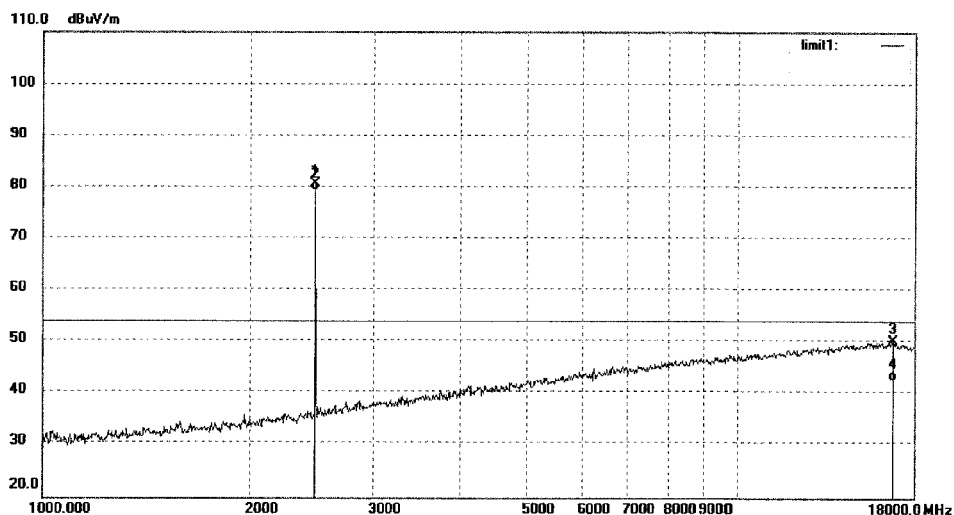
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	87.97	-7.37	80.60	114.00	-33.40	peak			
2	2473.987	86.67	-7.37	79.30	94.00	-14.70	AVG			
3	16745.214	9.20	40.99	50.19	74.00	-23.81	peak			
4	16745.214	1.58	40.99	42.57	54.00	-11.43	AVG			


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Job No.: Igwade #3356

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

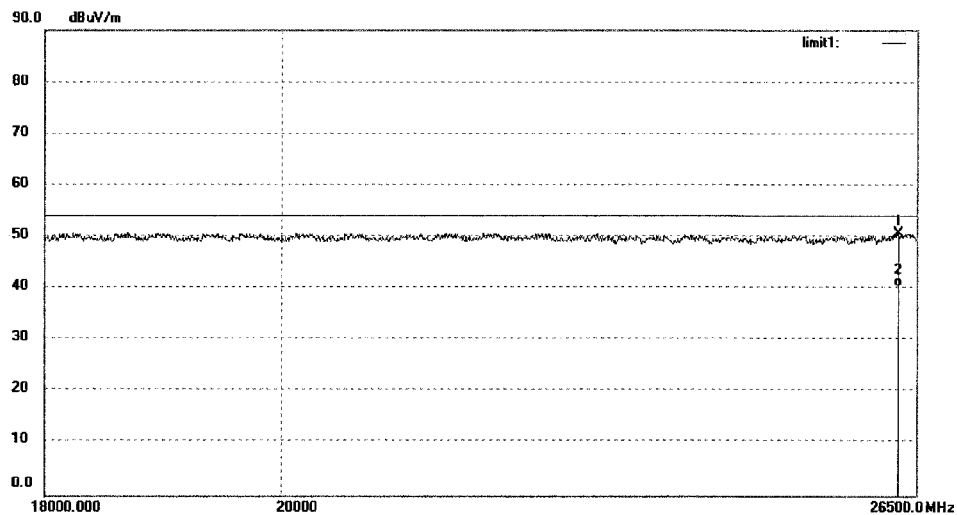
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26285.633	34.22	16.50	50.72	74.00	-23.28	peak			
2	26285.633	23.84	16.50	40.34	54.00	-13.66	AVG			


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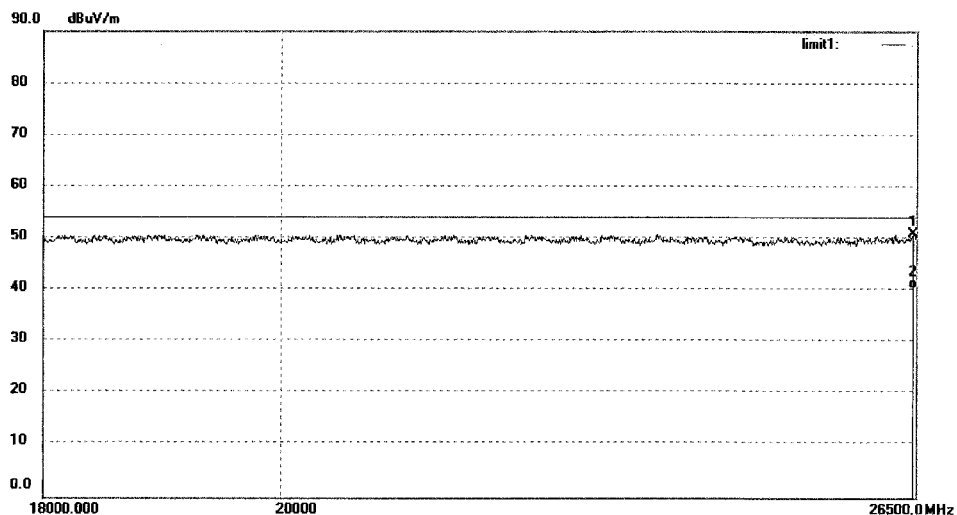
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3355	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless receiver motor controller box	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: MC250	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26469.269	34.06	16.92	50.98	74.00	-23.02	peak			
2	26469.269	23.45	16.92	40.37	54.00	-13.63	AVG			


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Fax:+86-0755-26503396

Job No.: lgwade #3357

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2448.393MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

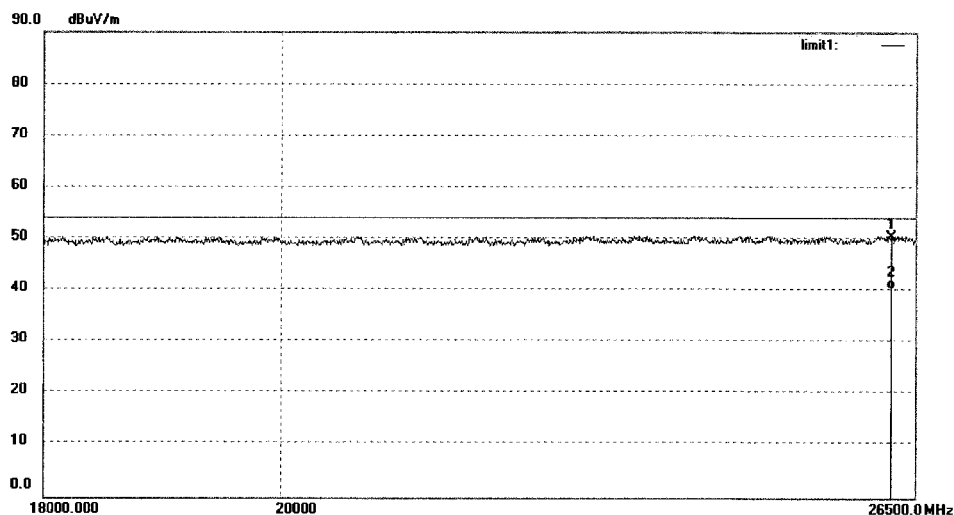
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26214.563	34.09	16.50	50.59	74.00	-23.41	peak			
2	26214.563	23.82	16.50	40.32	54.00	-13.68	AVG			


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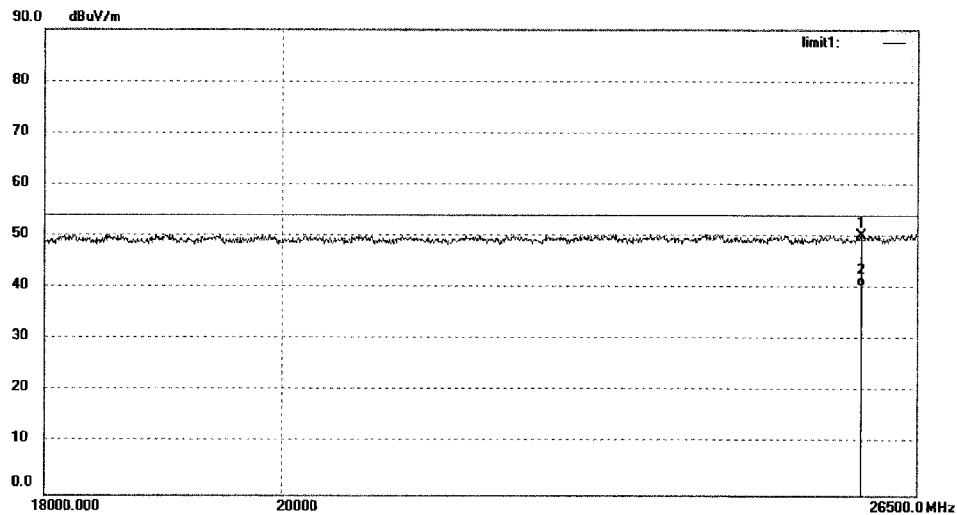
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Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lgwade #3358	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless receiver motor controller box	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: MC250	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25852.085	32.88	17.33	50.21	74.00	-23.79	peak			
2	25852.085	23.03	17.33	40.36	54.00	-13.64	AVG			


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Job No.: lgwade #3360

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

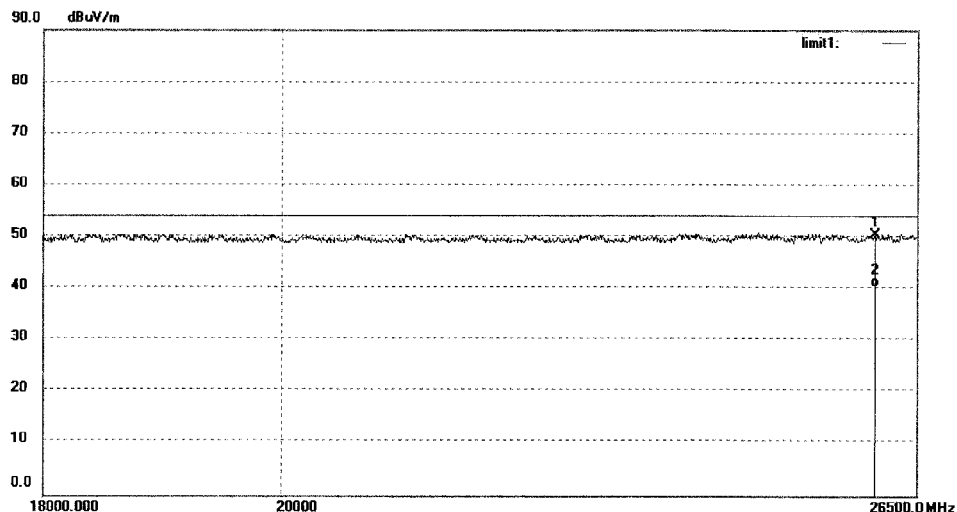
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26012.563	33.98	16.50	50.48	74.00	-23.52	peak			
2	26012.563	23.84	16.50	40.34	54.00	-13.66	AVG			

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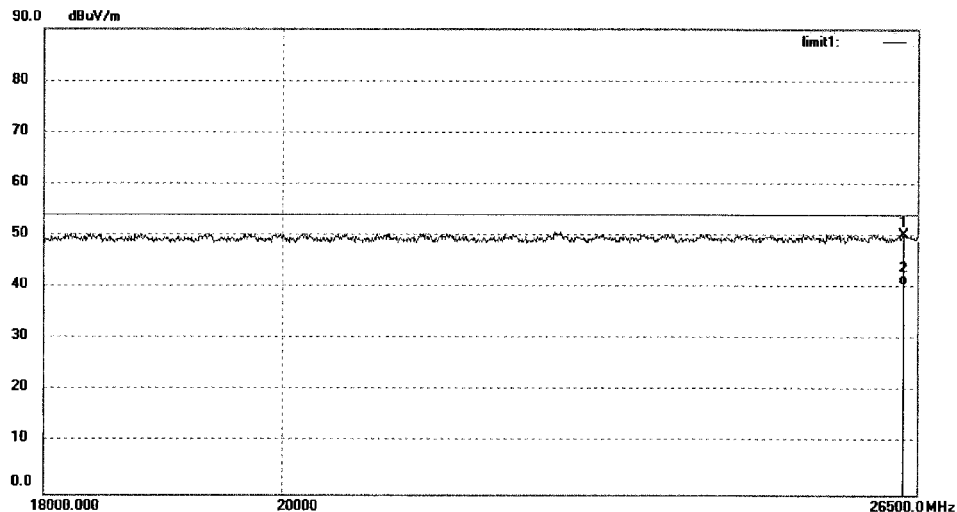
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Site: 2# Chamber

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Job No.: lgwade #3359	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless receiver motor controller box	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: MC250	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26336.515	33.21	17.01	50.22	74.00	-23.78	peak			
2	26336.515	23.70	17.01	40.71	54.00	-13.29	AVG			

Test Plot of Frequency Band Edge


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Job No.: Igwade #3348

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

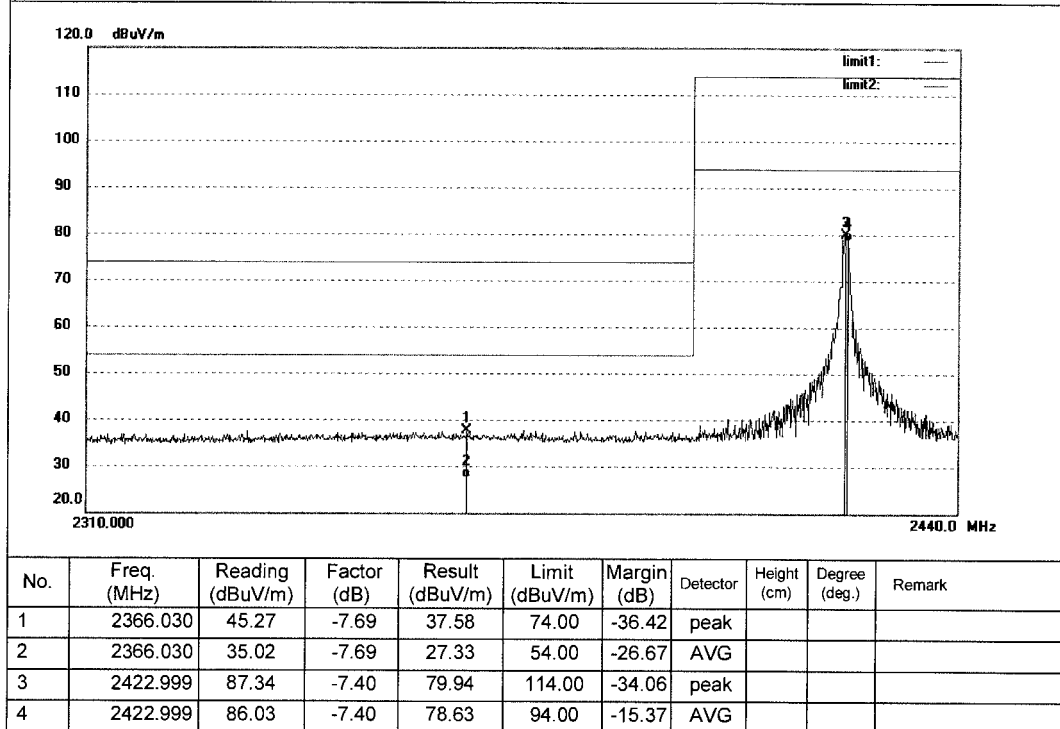
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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Job No.: Igwade #3347

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2422.999MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

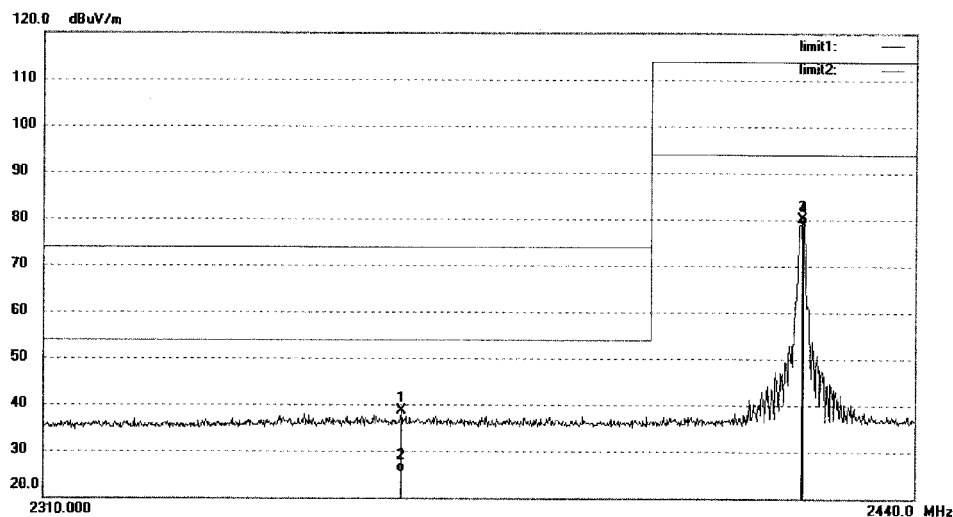
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2362.650	46.22	-7.71	38.51	74.00	-35.49	peak			
2	2362.650	33.12	-7.71	25.41	54.00	-28.59	AVG			
3	2422.999	87.65	-7.40	80.25	114.00	-33.75	peak			
4	2422.999	86.35	-7.40	78.95	94.00	-15.05	AVG			


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Fax:+86-0755-26503396

Job No.: Igwade #3353

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

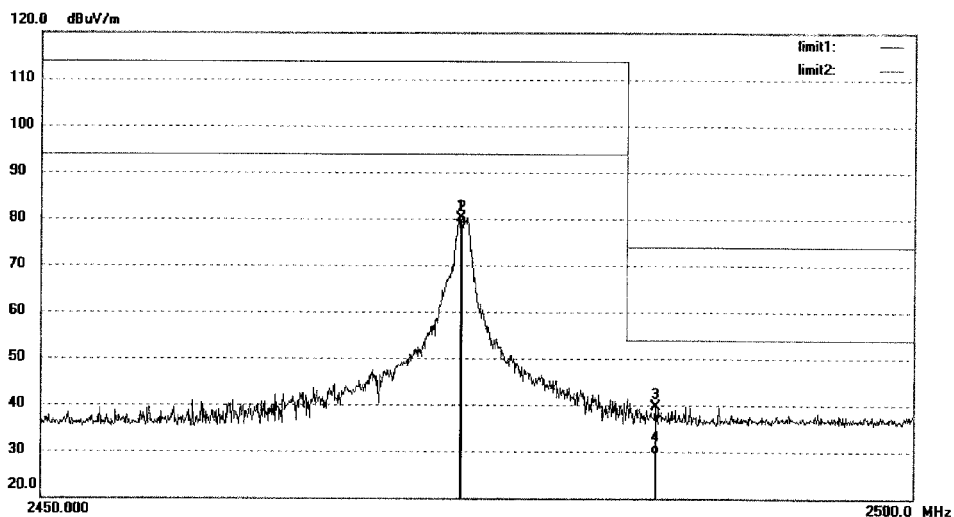
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	87.60	-7.37	80.23	114.00	-33.77	peak			
2	2473.987	86.30	-7.37	78.93	94.00	-15.07	AVG			
3	2485.200	47.03	-7.38	39.65	74.00	-34.35	peak			
4	2485.200	36.79	-7.38	29.41	54.00	-24.59	AVG			


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Job No.: Igwade #3354

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: TX 2473.987MHz

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

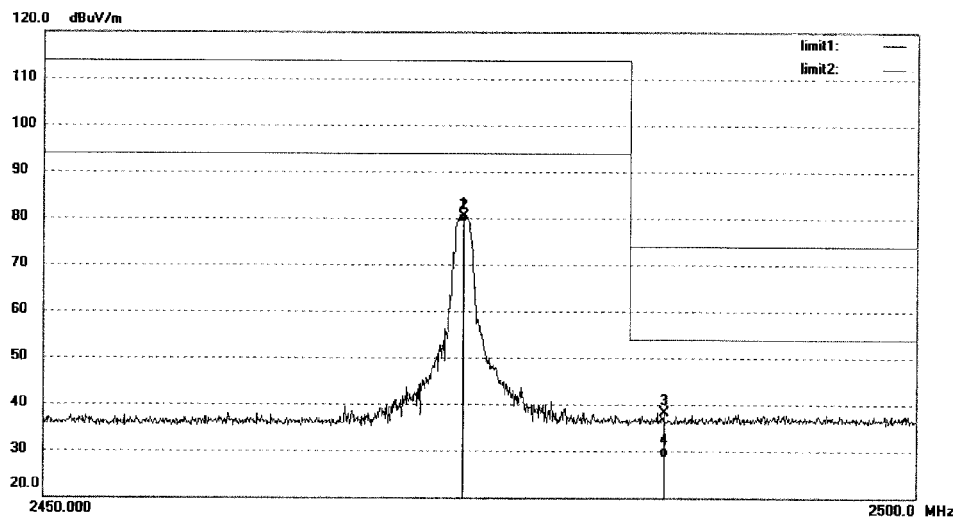
Date: 16/09/06/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	87.79	-7.37	80.42	114.00	-33.58	peak			
2	2473.987	86.49	-7.37	79.12	94.00	-14.88	AVG			
3	2485.500	45.43	-7.38	38.05	74.00	-35.95	peak			
4	2485.500	35.98	-7.38	28.60	54.00	-25.40	AVG			

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5.1.5 Conducted emissions**RESULT:****Pass**

Date of testing	:	2016-09-20
Test standard	:	FCC Part 15.107 (a) FCC Part 15.207 RSS-Gen Clause 8.8 ICES-003 Issue 6 January 2016
Basic standard	:	ANSI C63.10: 2013 ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A, B
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

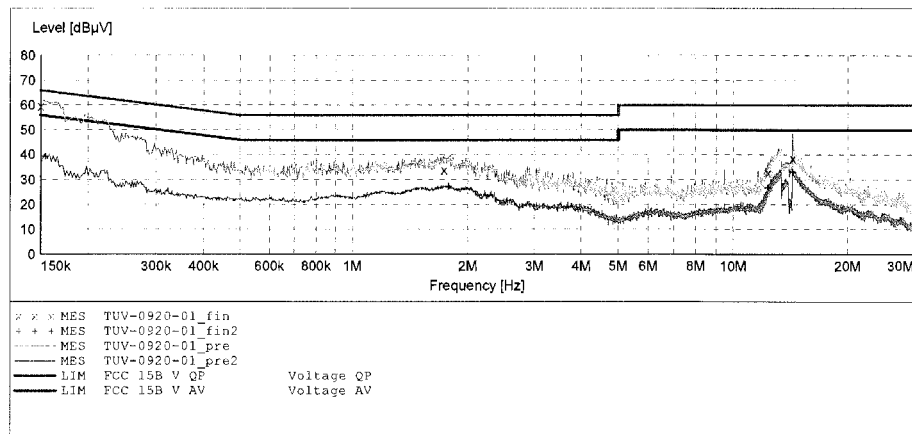
For details refer to following test plot.

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 2016-9-20 /

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average


MEASUREMENT RESULT: "TUV-0920-01_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	59.60	10.3	66	6.4	QP	L1	GND
1.734000	33.90	11.6	56	22.1	QP	L1	GND
12.332000	32.80	11.9	60	27.2	QP	L1	GND
14.285000	38.60	11.9	60	21.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-0920-01_fin2"

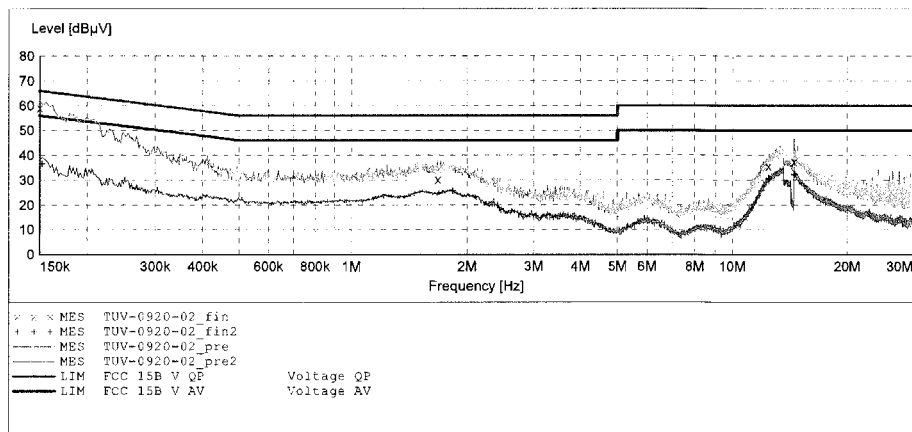
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154000	39.30	10.4	56	16.5	AV	L1	GND
1.778000	27.20	11.7	46	18.8	AV	L1	GND
12.332000	26.70	11.9	50	23.3	AV	L1	GND
14.294000	33.00	11.9	50	17.0	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 2016-9-20 /

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average


MEASUREMENT RESULT: "TUV-0920-02_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	59.10	10.3	66	6.9	QP	N	GND
1.676000	30.30	11.6	56	25.7	QP	N	GND
12.395000	35.60	11.9	60	24.4	QP	N	GND
14.469500	37.50	11.9	60	22.5	QP	N	GND

MEASUREMENT RESULT: "TUV-0920-02_fin2"

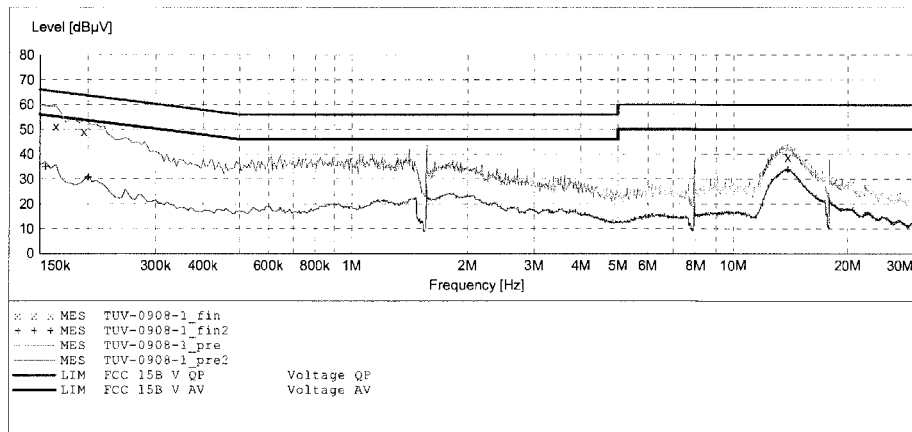
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.152000	36.50	10.4	56	19.4	AV	N	GND
1.834000	25.50	11.7	46	20.5	AV	N	GND
12.404000	30.60	11.9	50	19.4	AV	N	GND
14.501000	32.10	11.9	50	17.9	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/8/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0908-1_fin"

9/8/2016

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.165000	51.20	10.5	65	14.0	QP	L1	GND
0.195000	49.10	10.5	64	14.7	QP	L1	GND
13.855000	38.90	11.4	60	21.1	QP	L1	GND

MEASUREMENT RESULT: "TUV-0908-1_fin2"

9/8/2016

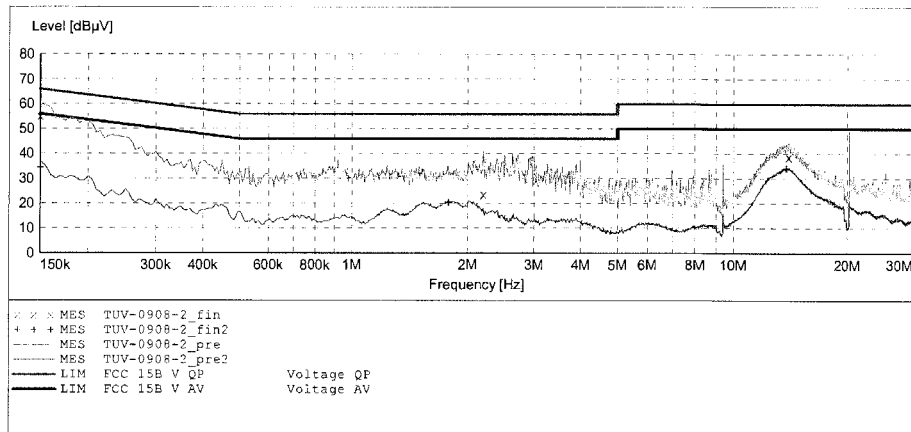
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155000	34.90	10.5	56	20.8	AV	L1	GND
0.200000	30.70	10.5	54	22.9	AV	L1	GND
13.840000	33.80	11.4	50	16.2	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 2.4GHz Wireless receiver motor controller box M/N:MC250
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/8/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 150.0 kHz 30.0 MHz 5.0 kHz Average
 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average


MEASUREMENT RESULT: "TUV-0908-2_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	55.20	10.5	66	10.8	QP	N	GND
2.200000	23.50	11.0	56	32.5	QP	N	GND
13.900000	38.80	11.4	60	21.2	QP	N	GND

MEASUREMENT RESULT: "TUV-0908-2_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	34.30	10.5	56	21.7	AV	N	GND
1.780000	20.30	11.0	46	25.7	AV	N	GND
13.720000	34.00	11.3	50	16.0	AV	N	GND

5.1.6 Radiated Emission**RESULT:****Pass**

Date of testing : 2016-09-19
Test standard : FCC Part 15.109 (a)
ICES-003 Issue 6 January 2016
Test procedure : ANSI C63.4: 2014
Frequency range : 30 - 6000MHz
Equipment Classification : Class B
Limits : FCC Part 15.109(a)
ICES-003 Issue 6 January 2016
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Input Voltage : AC 120V, 60Hz
Operation mode : B
Earthing : Not connected
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

For details refer to following test plot.


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Job No.: LGW2015 #3057

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: On

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

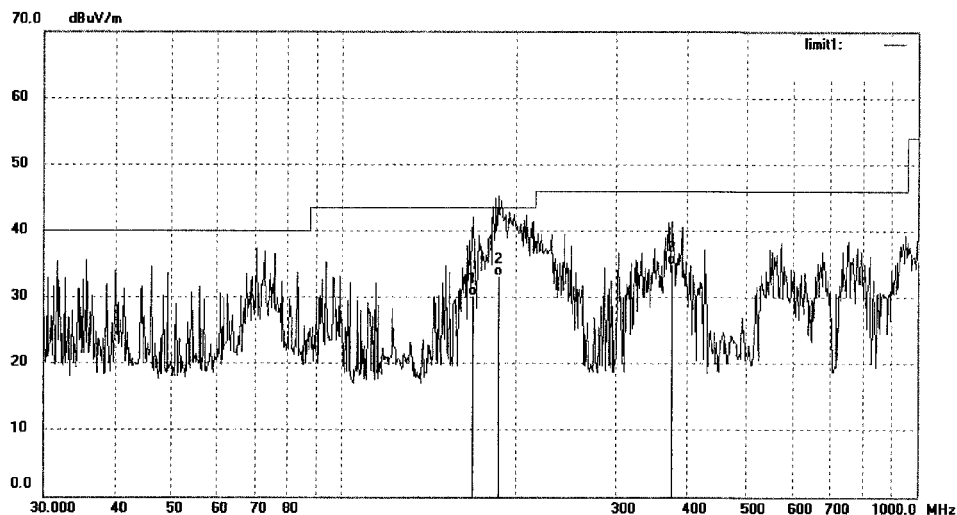
Date: 16/09/19/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.8241	44.17	-14.02	30.15	43.50	-13.35	QP			
2	185.7880	45.93	-12.71	33.22	43.50	-10.28	QP			
3	374.6225	42.31	-7.44	34.87	46.00	-11.13	QP			


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Job No.: LGW2015 #3058

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: On

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

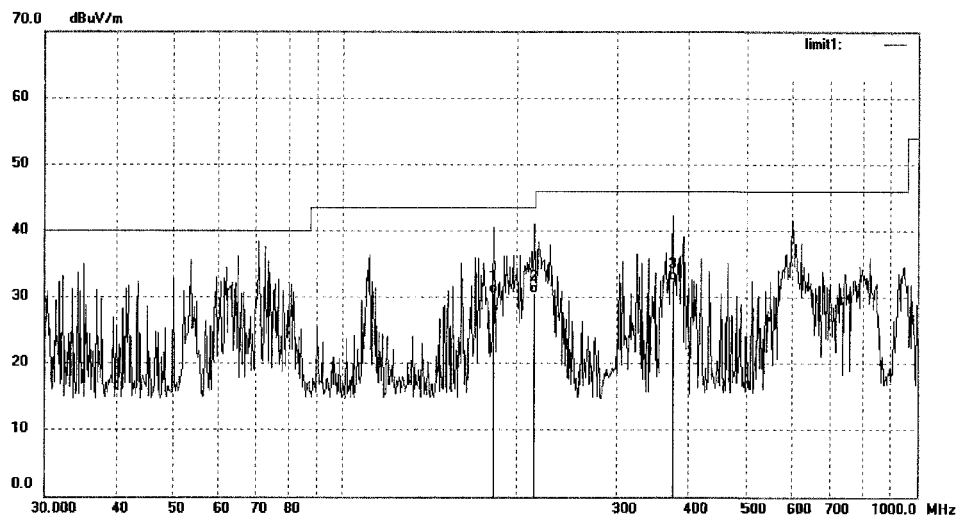
Date: 16/09/19/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	181.9199	43.78	-13.18	30.60	43.50	-12.90	QP			
2	214.5141	42.36	-11.90	30.46	43.50	-13.04	QP			
3	374.6225	39.91	-7.44	32.47	46.00	-13.53	QP			


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Job No.: LGW2015 #3059

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: On

Model: MC250

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

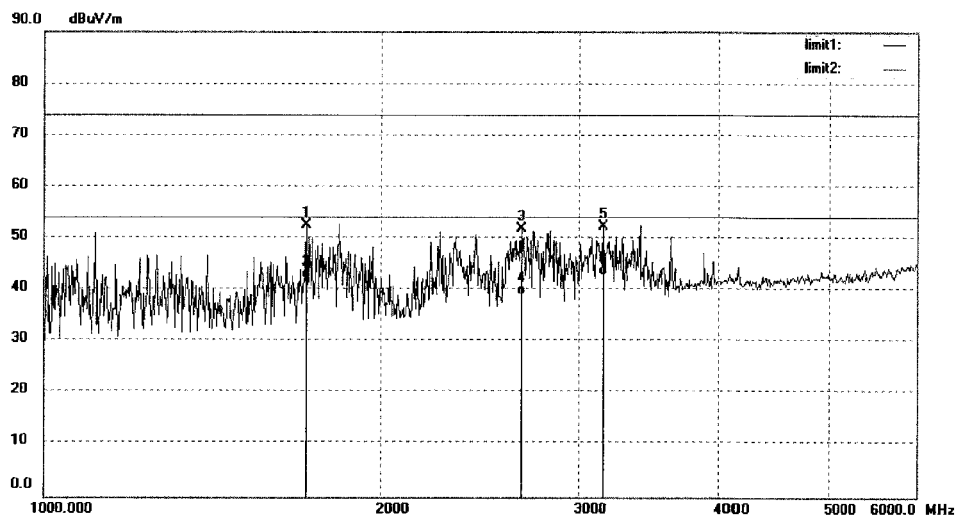
Date: 16/09/19/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1717.915	62.87	-10.33	52.54	74.00	-21.46	peak			
2	1717.915	52.47	-10.33	42.14	54.00	-11.86	AVG			
3	2664.702	58.46	-6.58	51.88	74.00	-22.12	peak			
4	2664.702	45.73	-6.58	39.15	54.00	-14.85	AVG			
5	3159.171	56.57	-4.34	52.23	74.00	-21.77	peak			
6	3159.171	47.12	-4.34	42.78	54.00	-11.22	AVG			


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Job No.: LGW2015 #3060

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: 2.4GHz Wireless receiver motor controller box

Mode: On

Model: MC250

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

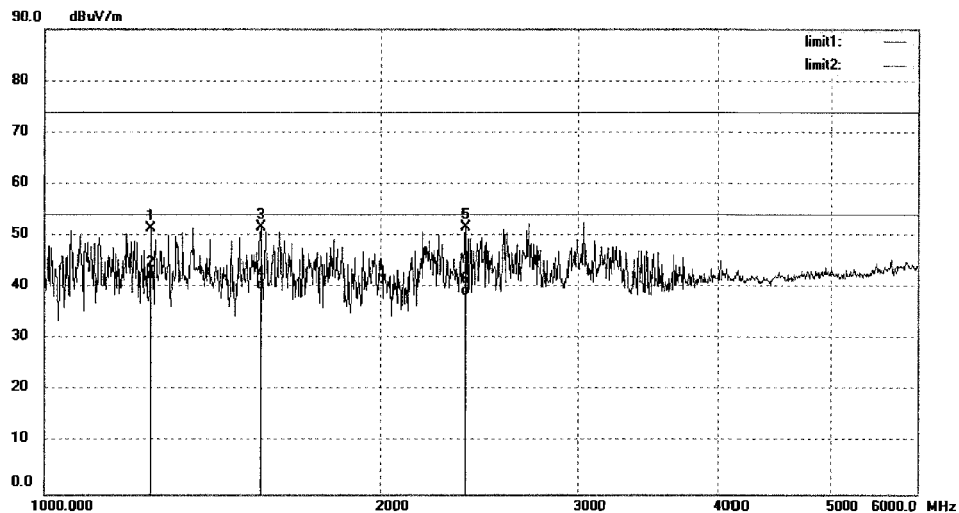
Date: 16/09/19/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1239.876	63.83	-12.34	51.49	74.00	-22.51	peak			
2	1239.876	53.91	-12.34	41.57	54.00	-12.43	AVG			
3	1559.486	62.62	-11.01	51.61	74.00	-22.39	peak			
4	1559.486	50.46	-11.01	39.45	54.00	-14.55	AVG			
5	2371.750	59.21	-7.64	51.57	74.00	-22.43	peak			
6	2371.750	46.05	-7.64	38.41	54.00	-15.59	AVG			

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum output power of the transmitter is 0.031mW (-15.04dBm) only, which less than 309mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

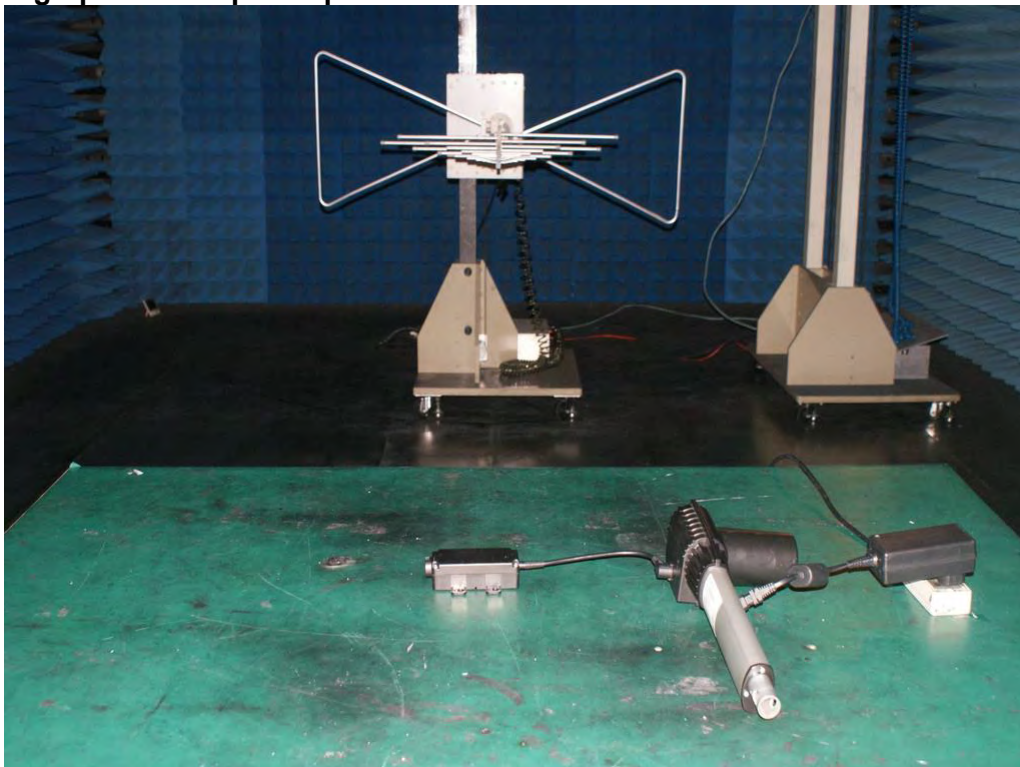
Since maximum output power of the transmitter is 0.031mW<1496mW, and the distance from EUT to human is $\geq 200\text{mm}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions below 30MHz



Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz



Photograph 3: Set-up for Spurious Emissions of 1 – 18GHz



Photograph 4: Set-up for Spurious Emissions of 18 – 26.5GHz



Photograph 5: Set-up for Conducted Emission



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