

Prüfbericht-Nr.: <i>Test Report No.:</i>	50059457 001	Auftrags-Nr.: <i>Order No.:</i>	164072159	Seite 1 von 71 <i>Page 1 of 71</i>	
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>	Handset				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	HC338 (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>	A000416439-001				
Prüfzeitraum: <i>Testing period:</i>	06.09.2016 - 10.09.2016				
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:	Winnie Hou		kontrolliert von / reviewed by:	Owen Tian	
24.10.2016	Winnie Hou/Senior Project Manager		24.10.2016	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>					

v04

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	< ± 0.60 dB
Radiated emission of transmitter, valid up to 26.5 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 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 handset, 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	Handset
Type Designation	HC338
FCC ID	2AH9H-HC338
IC	21543-HC338
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 3.7V (via built-in battery)
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Transmitting
 - 2. Receiving
- B. Charging
- 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.
Notebook	Lenovo	X240

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

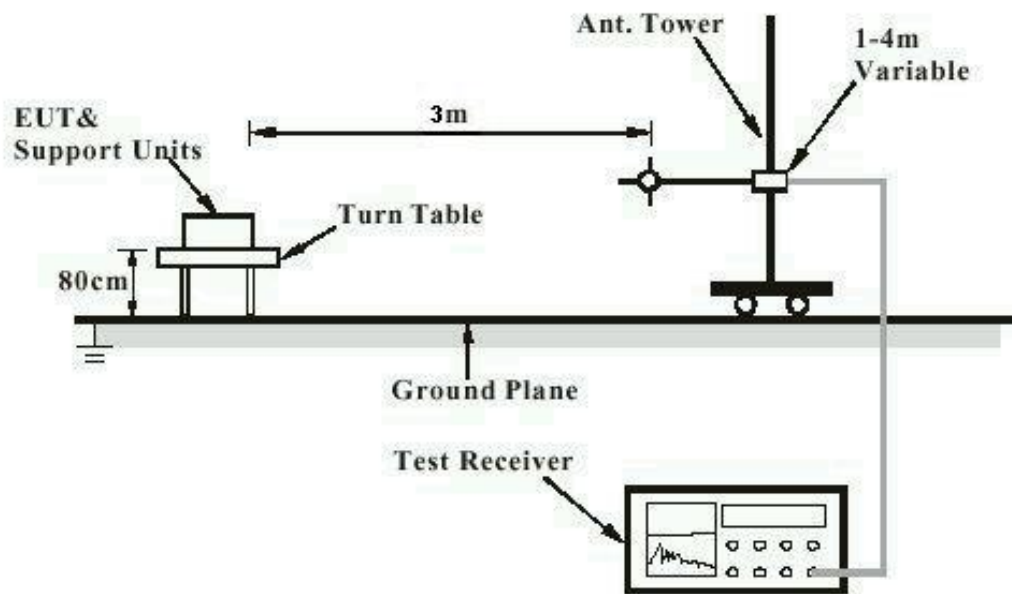


Diagram of Measurement Configuration for Radiation Test for above 1GHz

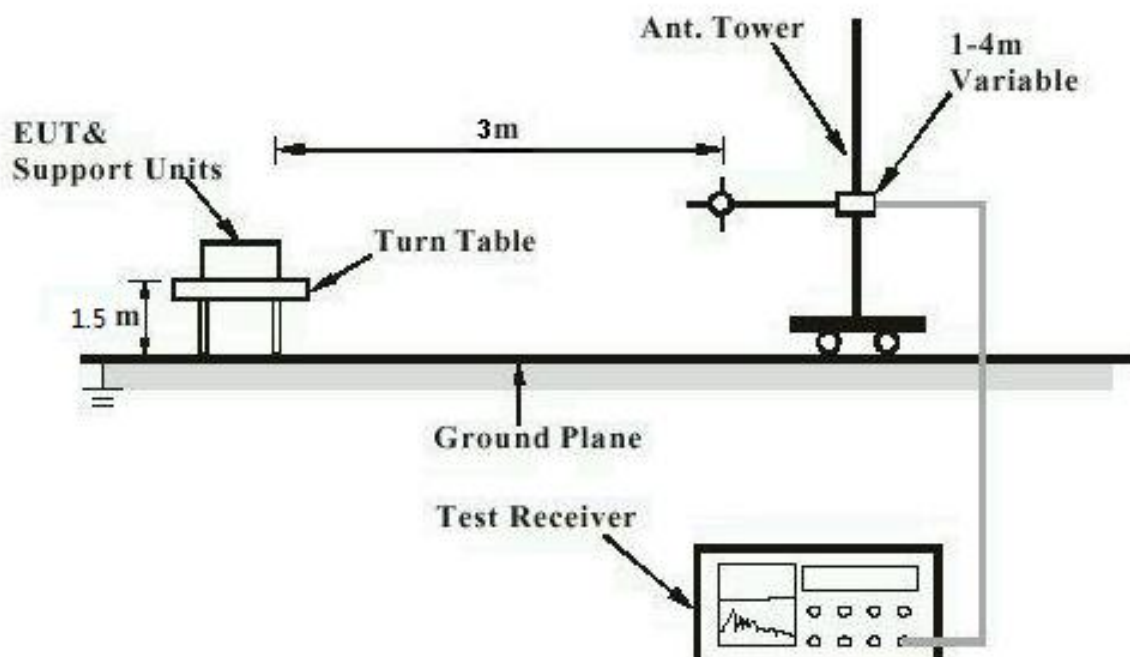
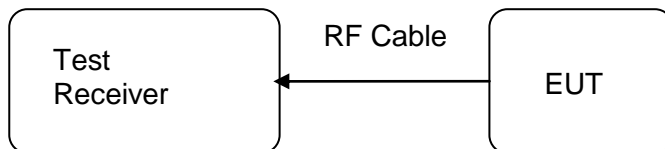
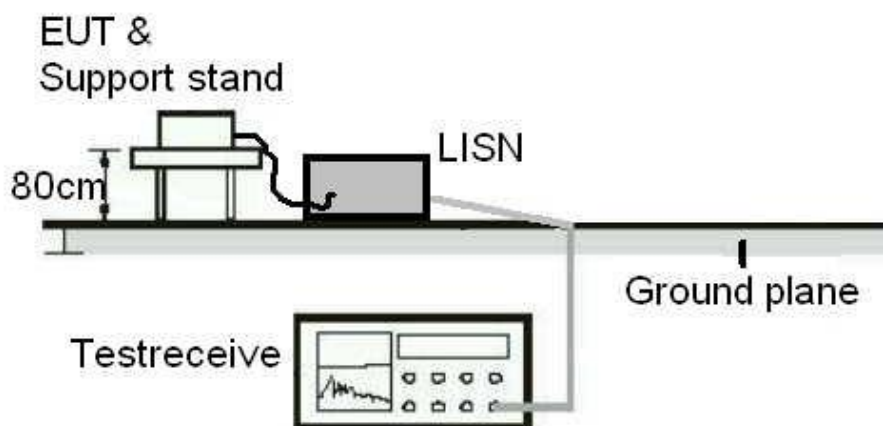


Diagram of Measurement Equipment Configuration for Transmitter Measurement**Diagram of Measurement Equipment Configuration for Conduction Measurement**

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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*Page 13 of 71***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

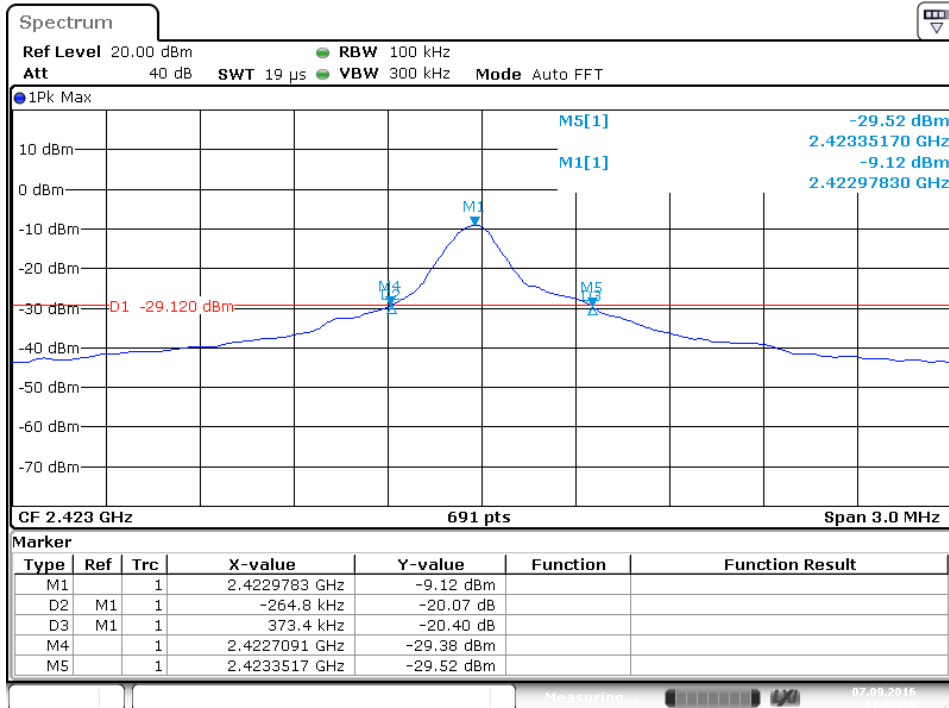
Test setup

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

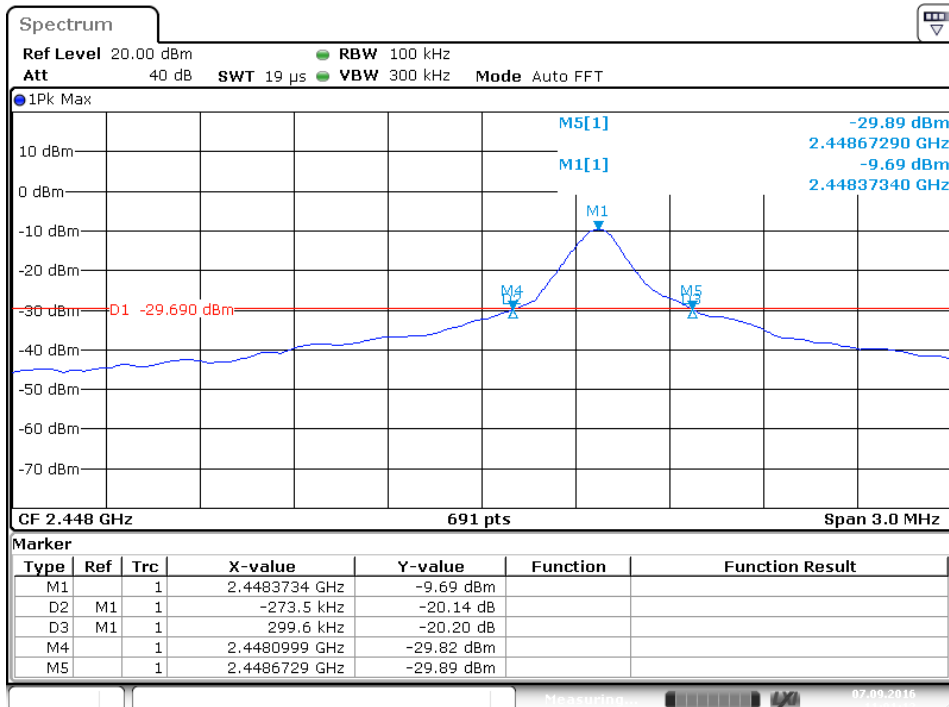
Table 4: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	0.638	1.185
Mid Channel	2448.393	0.573	1.177
High Channel	2473.987	0.556	1.107

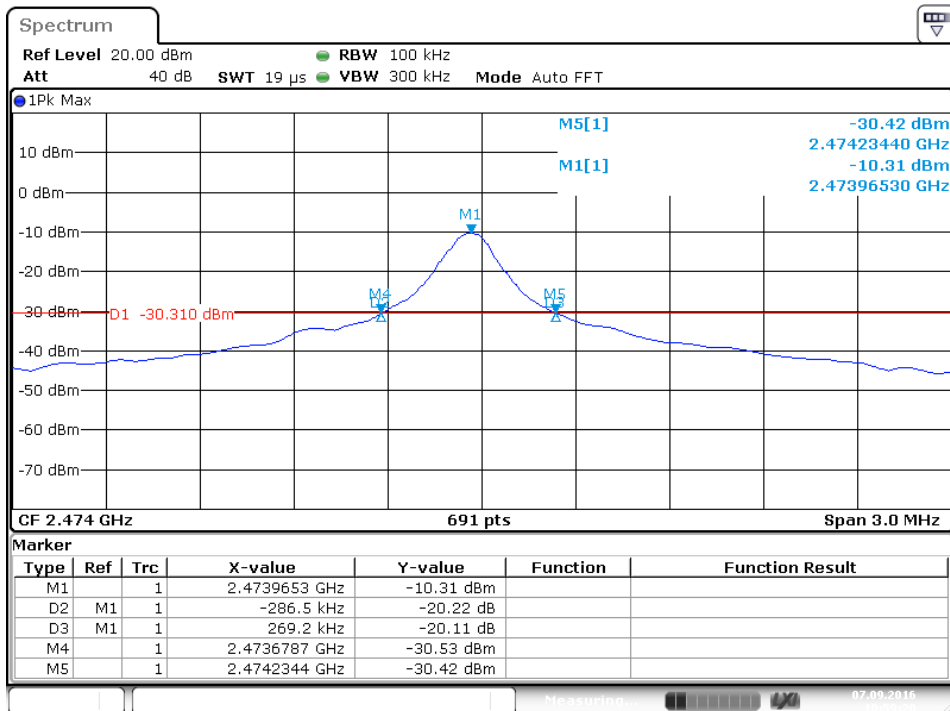
For details refer to following test plot.

Test Plot of 20dB Bandwidth


Date: 7.SEP.2016 11:02:56

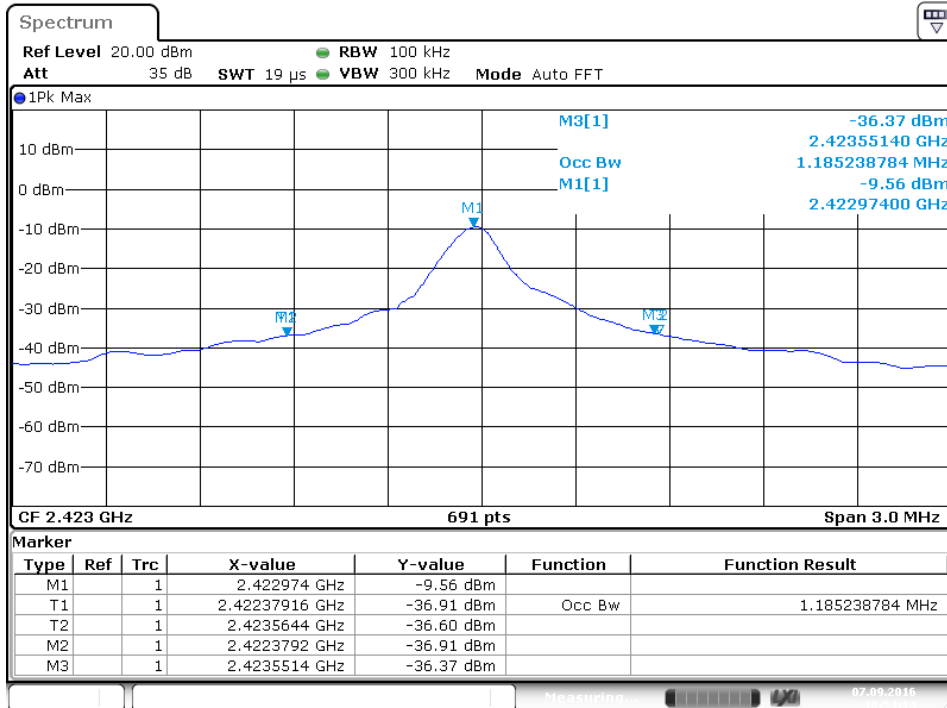


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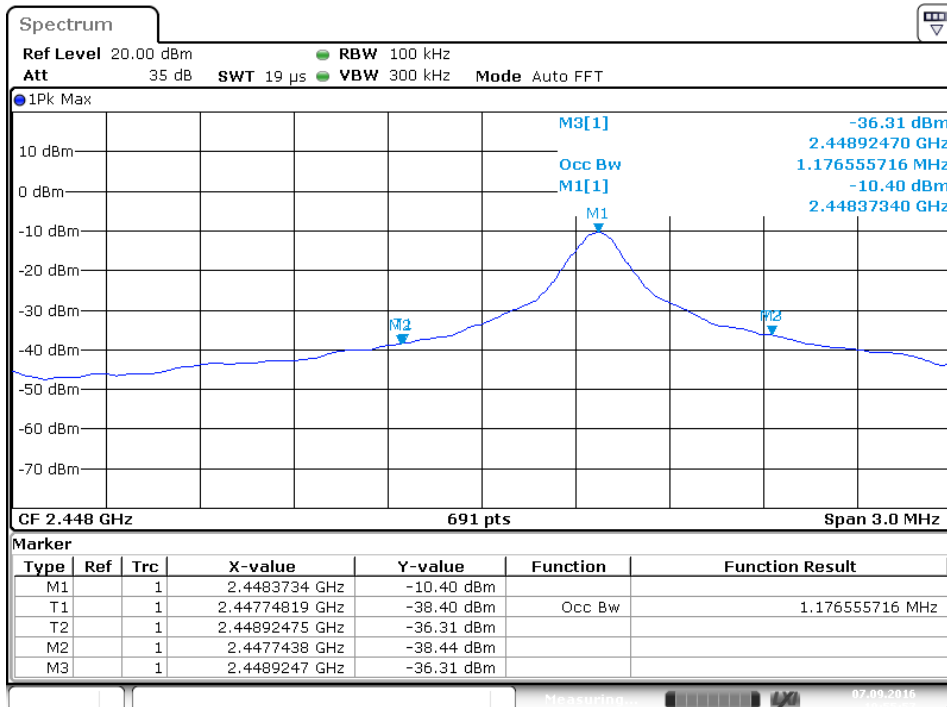


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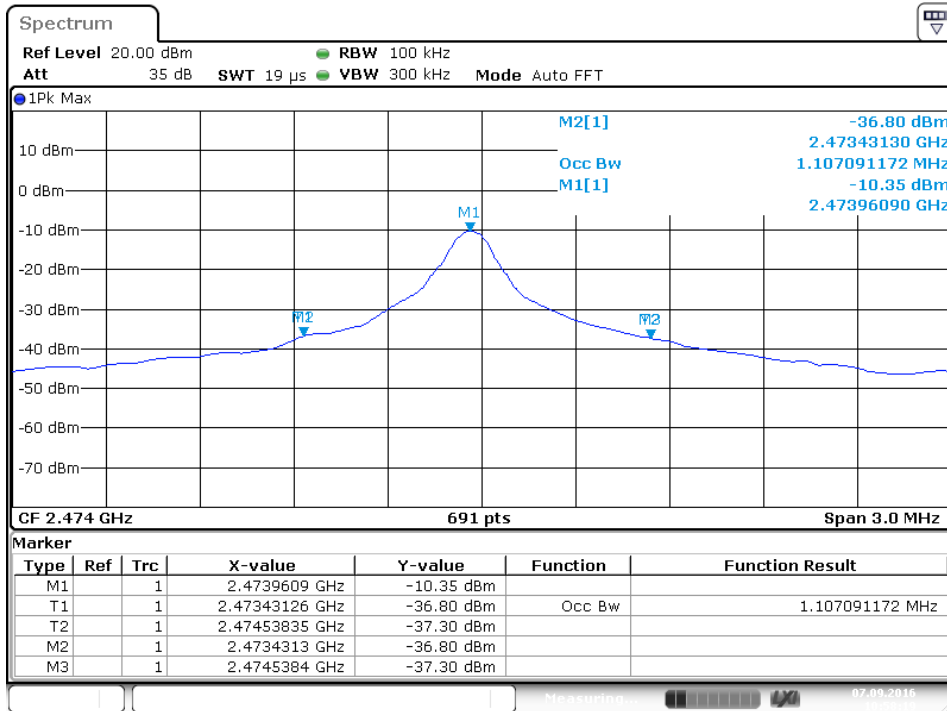
Test Plot of 99% Bandwidth



Date: 7.SEP.2016 10:54:14



Date: 7.SEP.2016 10:55:57



Date: 7.SEP.2016 10:58:19

5.1.3 Fundamental & Harmonics Radiated Emission

RESULT:
Pass

Date of testing : 2016-09-06
 Test standard : FCC part 15.249(a)
 : RSS-210 Clause A2.9
 Basic standard : ANSI C63.10: 2013
 Limits : FCC part 15.249(a)
 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

Table 5: Polarization of the measurement for the larger power level channel 2473.987MHz: Horizontal

Test conditions		Fundamental Frequency		Harmonic Frequency	
		2473.987MHz		---	
T _{nom} (25°C)	Unit	(dBμV/m)	(mV/m)	(dBμV/m)	(μV/m)
	Horizontal	85.53	18.902	---	---
	Vertical	85.27	18.344	---	---
Limit		94	50	54	500

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector; the final measurement for frequencies above 1000MHz is performed with Average detector.

The worst case was shown in above Table 5.

Disturbance other than those mentioned are small or not detectable.

For details refer to following test plot.


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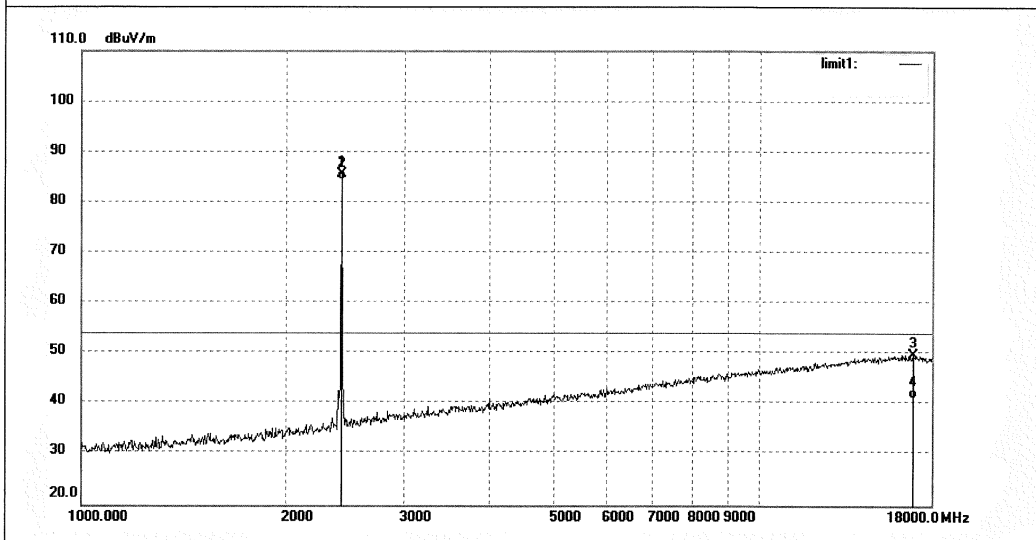
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3361	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
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	2422.999	93.05	-7.40	85.65	114.00	-27.35	peak			
2	2422.999	91.95	-7.40	84.55	94.00	-9.45	AVG			
3	16891.045	8.44	41.39	49.83	74.00	-24.17	peak			
4	16891.045	-0.04	41.39	41.35	54.00	-12.65	AVG			


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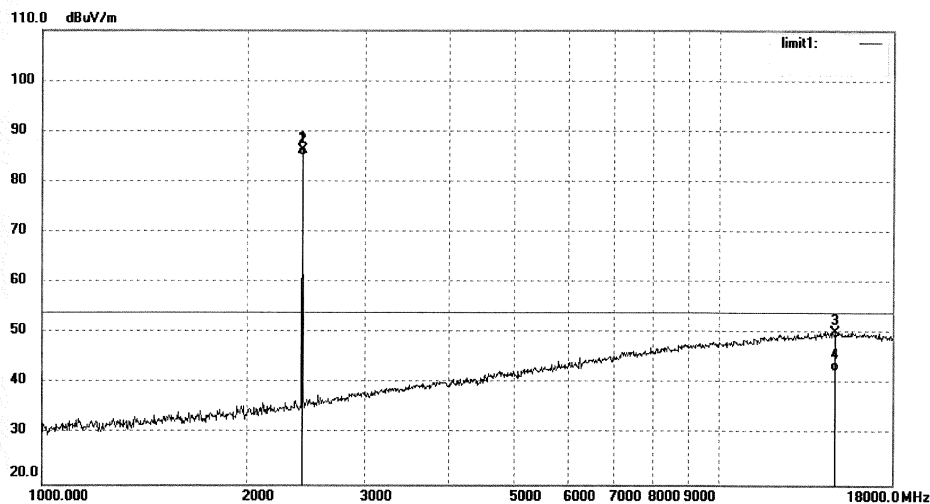
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3362	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
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	2422.999	93.59	-7.40	86.19	114.00	-27.81	peak			
2	2422.999	92.49	-7.40	85.09	94.00	-8.91	AVG			
3	14830.959	8.72	41.61	50.33	74.00	-23.67	peak			
4	14830.959	0.93	41.61	42.54	54.00	-11.46	AVG			


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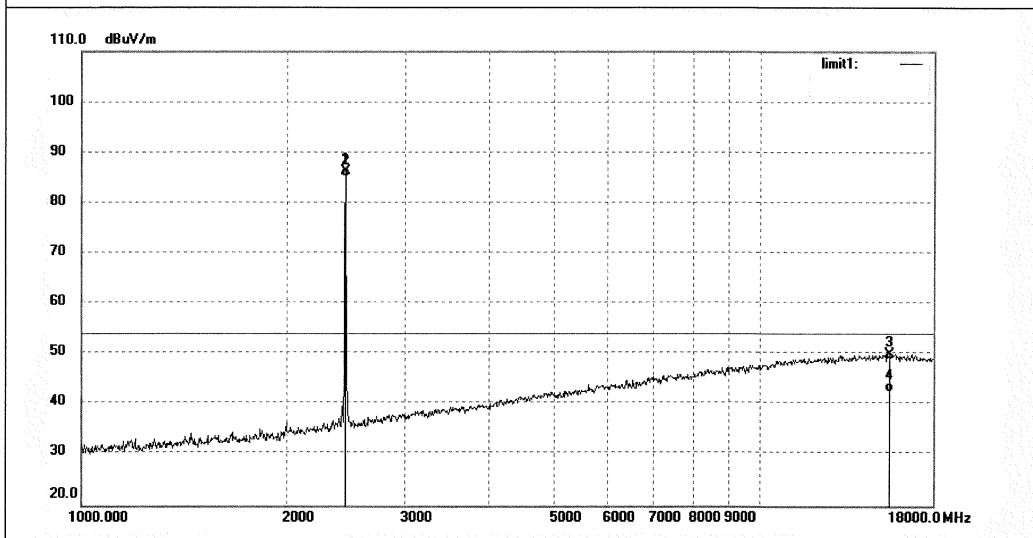
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3365	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



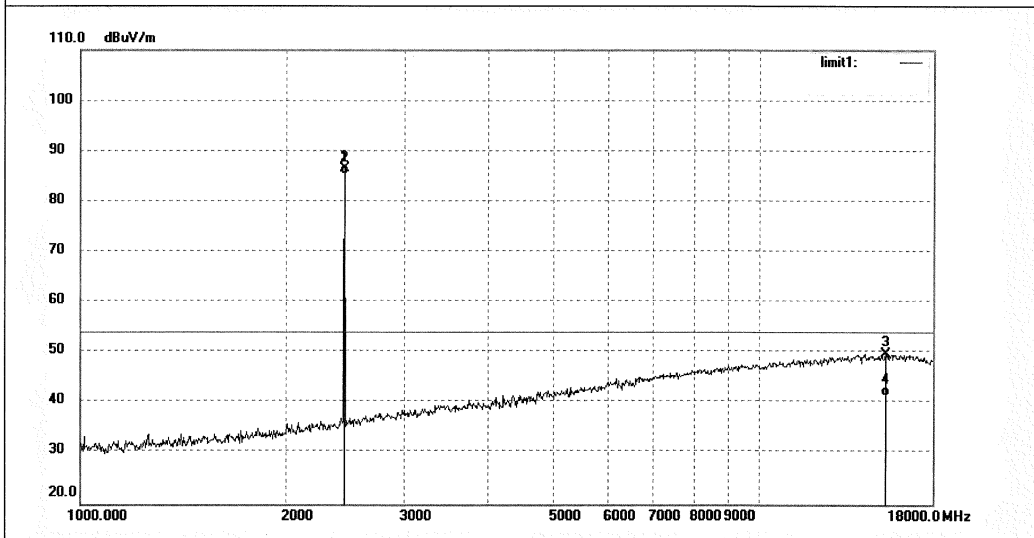
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	93.69	-7.34	86.35	114.00	-27.65	peak			
2	2448.393	92.59	-7.34	85.25	94.00	-8.75	AVG			
3	15532.938	10.04	40.09	50.13	74.00	-23.87	peak			
4	15532.938	2.45	40.09	42.54	54.00	-11.46	AVG			


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

Job No.: lgwade #3366	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
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	2448.393	93.81	-7.34	86.47	114.00	-27.53	peak			
2	2448.393	92.71	-7.34	85.37	94.00	-8.63	AVG			
3	15310.072	9.22	40.48	49.70	74.00	-24.30	peak			
4	15310.072	1.09	40.48	41.57	54.00	-12.43	AVG			


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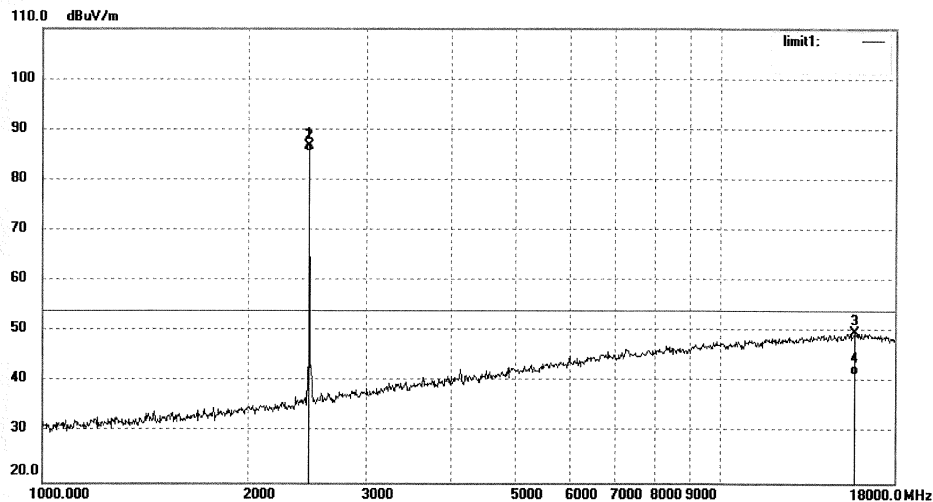
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3368	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



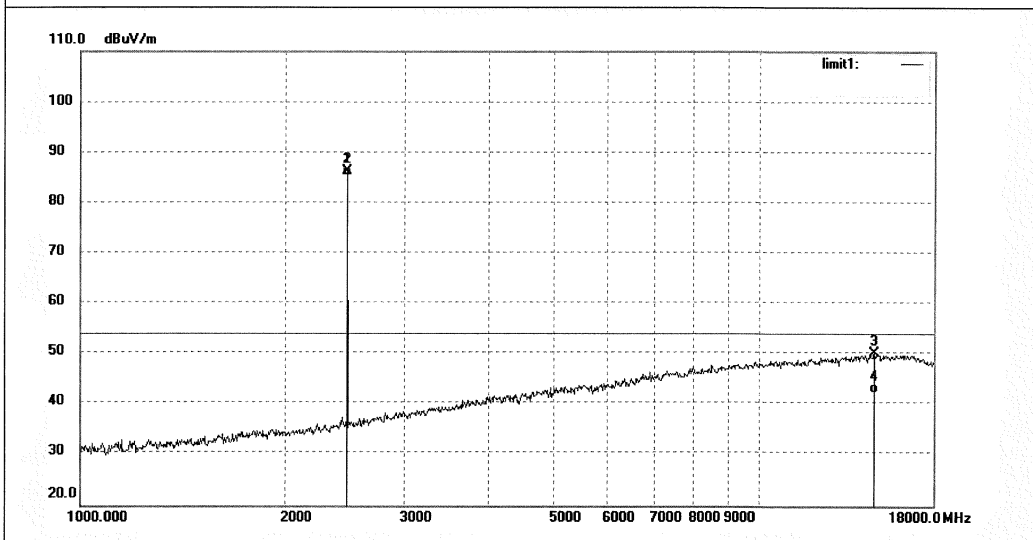
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	94.00	-7.37	86.63	114.00	-27.37	peak			
2	2473.987	92.90	-7.37	85.53	94.00	-8.47	AVG			
3	15668.211	9.83	40.07	49.90	74.00	-24.10	peak			
4	15668.211	1.50	40.07	41.57	54.00	-12.43	AVG			


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

Job No.: lgwade #3367	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	2473.987	93.74	-7.37	86.37	114.00	-27.63	peak			
2	2473.987	92.64	-7.37	85.27	94.00	-8.73	AVG			
3	14702.914	8.20	41.99	50.19	74.00	-23.81	peak			
4	14702.914	0.49	41.99	42.48	54.00	-11.52	AVG			

Prüfbericht - Nr.: 50059457 001

Test Report No.

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

Date of testing	:	2016-09-07
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

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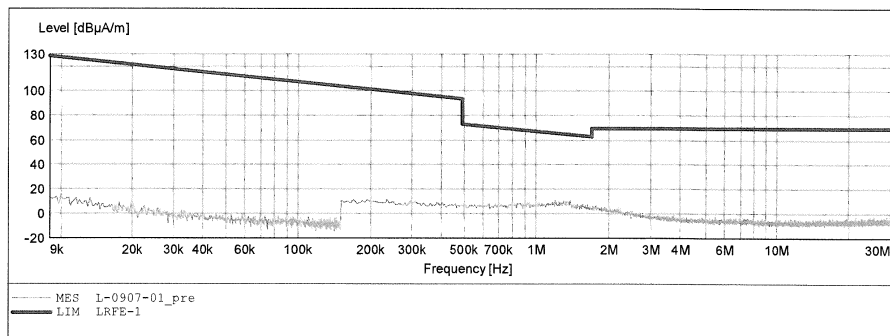
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

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

Short Description: _SUB_STD_VTERM2 1.70



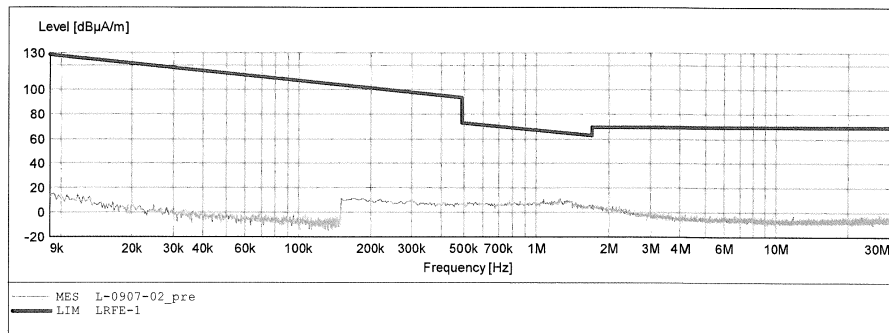
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

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

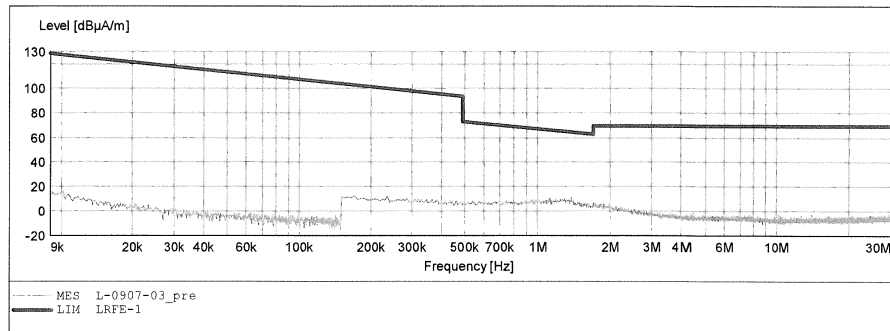


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FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Short Description: _SUB_STD_VTERM2 1.70						
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

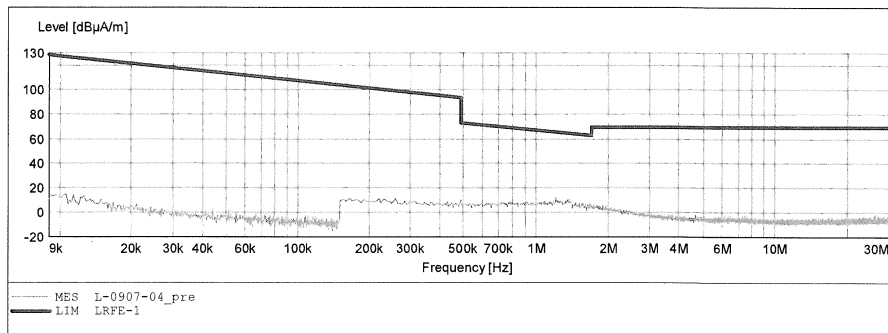


ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70			Detector	Meas. Time	IF Bandw.	Transducer
Start Frequency	Stop Frequency	Step 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

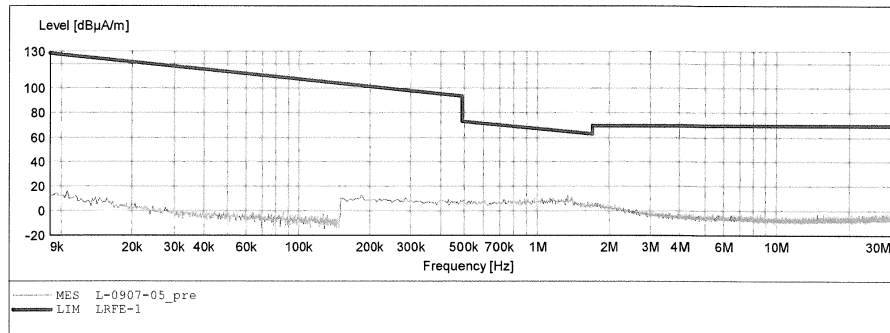


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

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

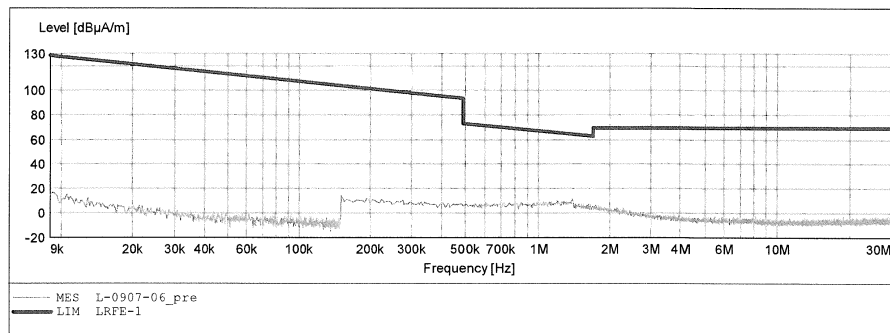


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2 1.70	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



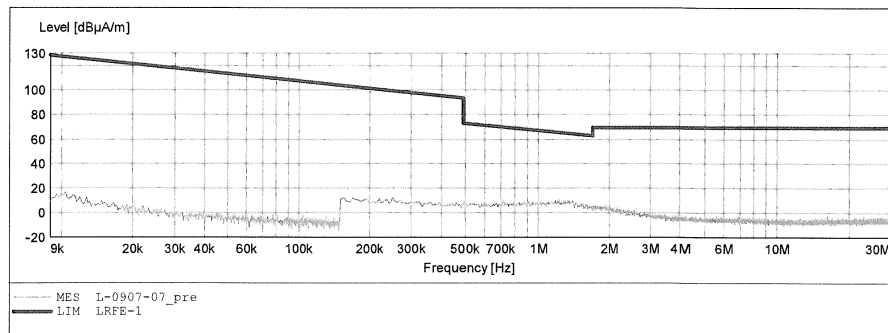
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FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: X
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

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

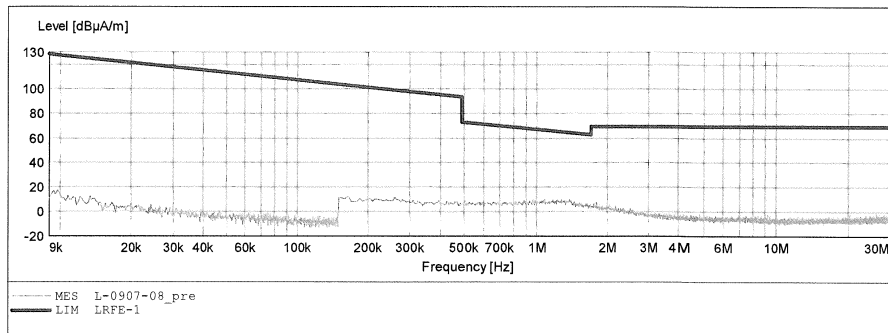


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Y
 Start of Test: 2016-9-7 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Short Description: _SUB_STD_VTERM2 1.70						
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

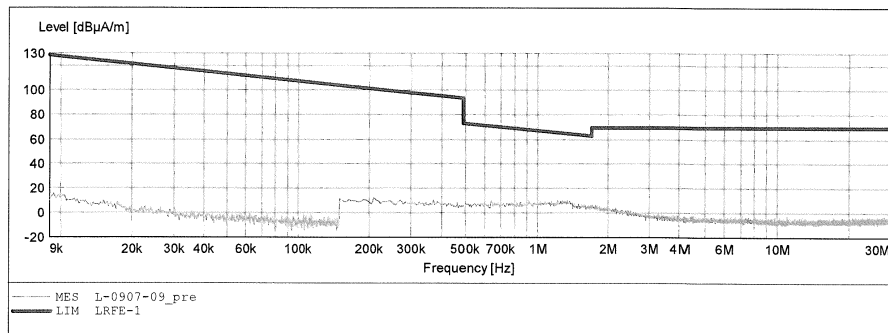


ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Z
 Start of Test: 2016-9-7 /

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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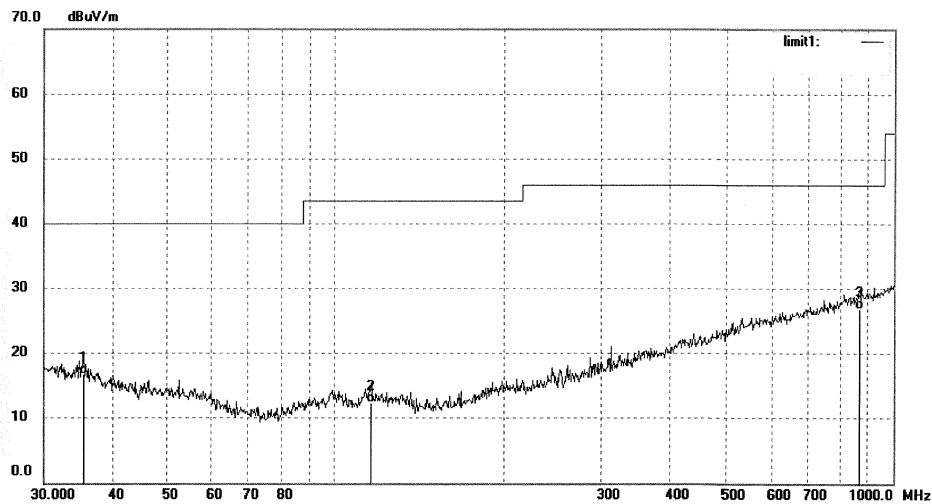
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3389	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



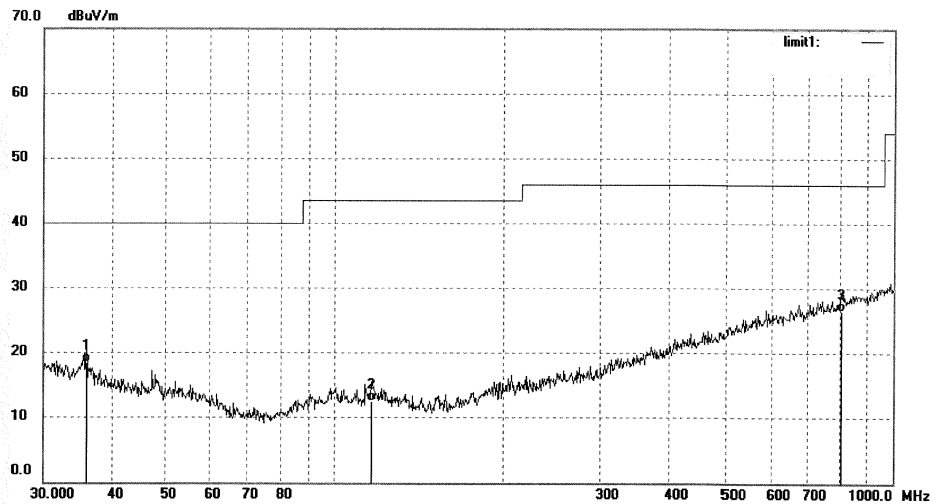
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.3750	27.13	-10.50	16.63	40.00	-23.37	QP			
2	116.5400	25.53	-13.15	12.38	43.50	-31.12	QP			
3	866.0878	25.88	1.03	26.91	46.00	-19.09	QP			


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Job No.: Igwade #3390	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



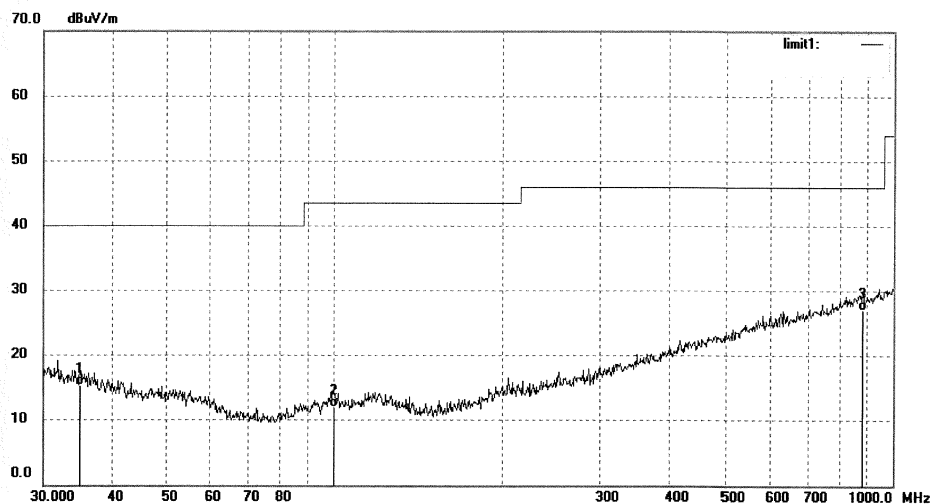
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.8746	29.12	-10.62	18.50	40.00	-21.50	QP			
2	116.9495	25.68	-13.15	12.53	43.50	-30.97	QP			
3	804.6028	26.33	0.11	26.44	46.00	-19.56	QP			


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Job No.: lgwade #3392	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



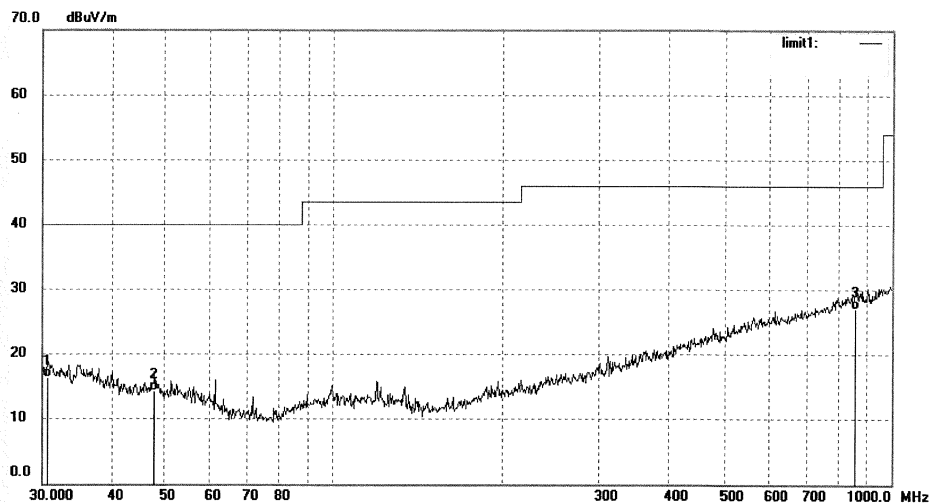
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8823	25.74	-10.41	15.33	40.00	-24.67	QP			
2	99.8777	25.08	-13.16	11.92	43.50	-31.58	QP			
3	878.3214	25.88	1.13	27.01	46.00	-18.99	QP			


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

Job No.: Igwade #3391	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
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	30.6378	25.49	-9.11	16.38	40.00	-23.62	QP			
2	47.8260	26.91	-12.62	14.29	40.00	-25.71	QP			
3	860.0352	26.18	0.86	27.04	46.00	-18.96	QP			


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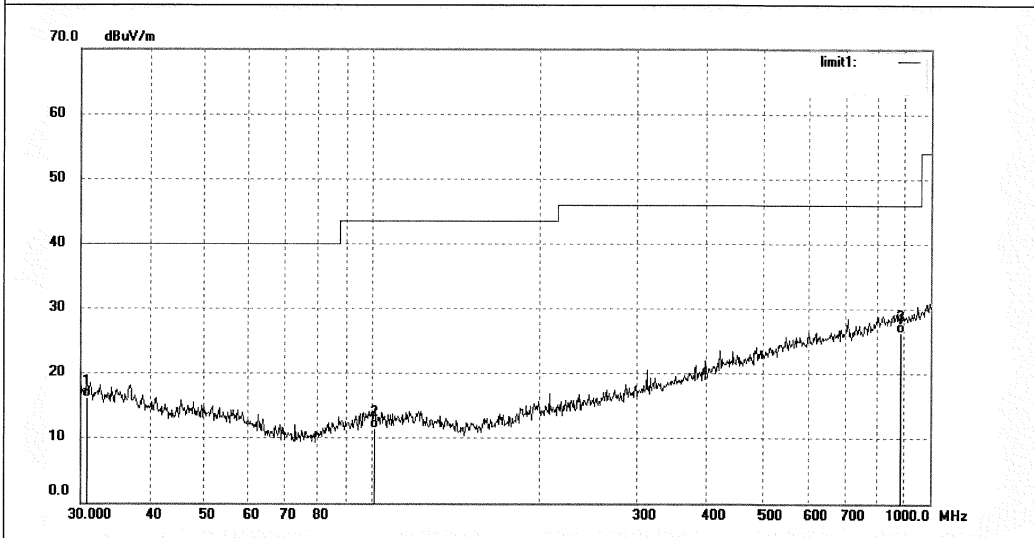
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3393	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



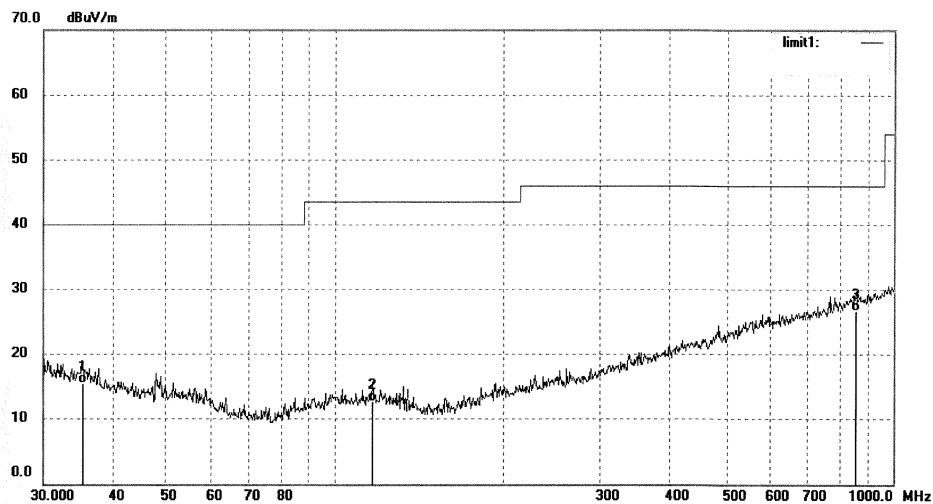
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.7454	26.11	-10.00	16.11	40.00	-23.89	QP			
2	101.2883	24.83	-13.33	11.50	43.50	-32.00	QP			
3	881.4067	25.19	1.16	26.35	46.00	-19.65	QP			


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

Job No.: lgwade #3394	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	35.3750	26.03	-10.50	15.53	40.00	-24.47	QP			
2	117.3602	25.80	-13.16	12.64	43.50	-30.86	QP			
3	854.0247	26.01	0.74	26.75	46.00	-19.25	QP			


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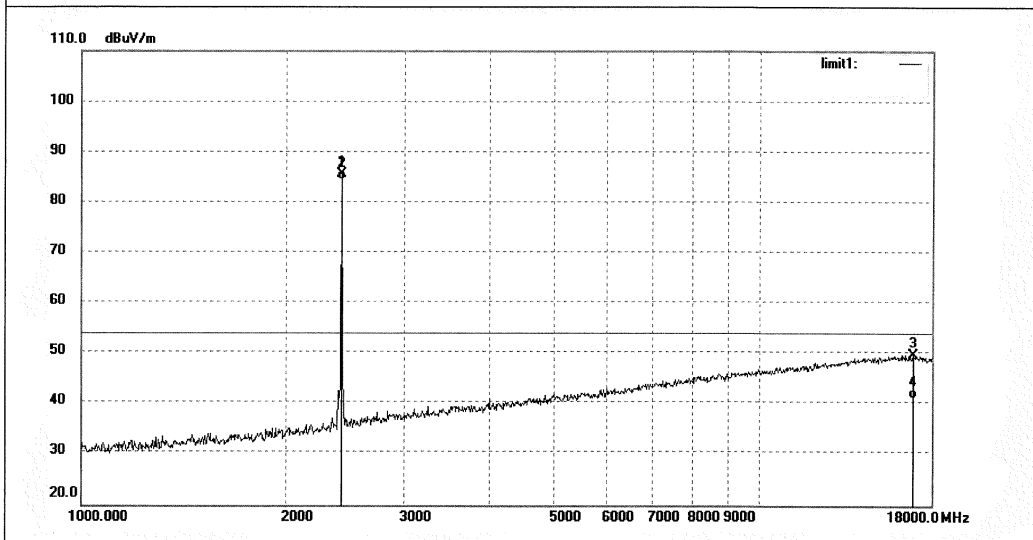
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3361	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



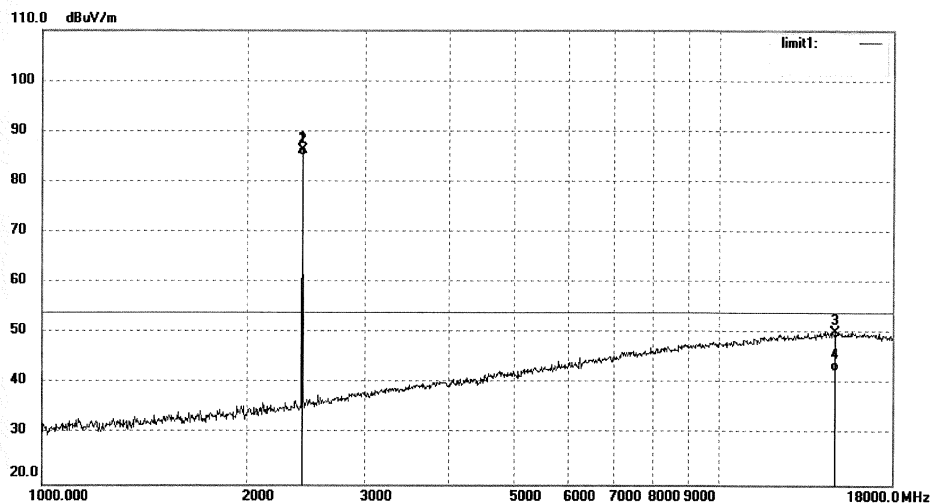
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	93.05	-7.40	85.65	114.00	-27.35	peak			
2	2422.999	91.95	-7.40	84.55	94.00	-9.45	AVG			
3	16891.045	8.44	41.39	49.83	74.00	-24.17	peak			
4	16891.045	-0.04	41.39	41.35	54.00	-12.65	AVG			


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

Job No.: Igwade #3362	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
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	2422.999	93.59	-7.40	86.19	114.00	-27.81	peak			
2	2422.999	92.49	-7.40	85.09	94.00	-8.91	AVG			
3	14830.959	8.72	41.61	50.33	74.00	-23.67	peak			
4	14830.959	0.93	41.61	42.54	54.00	-11.46	AVG			


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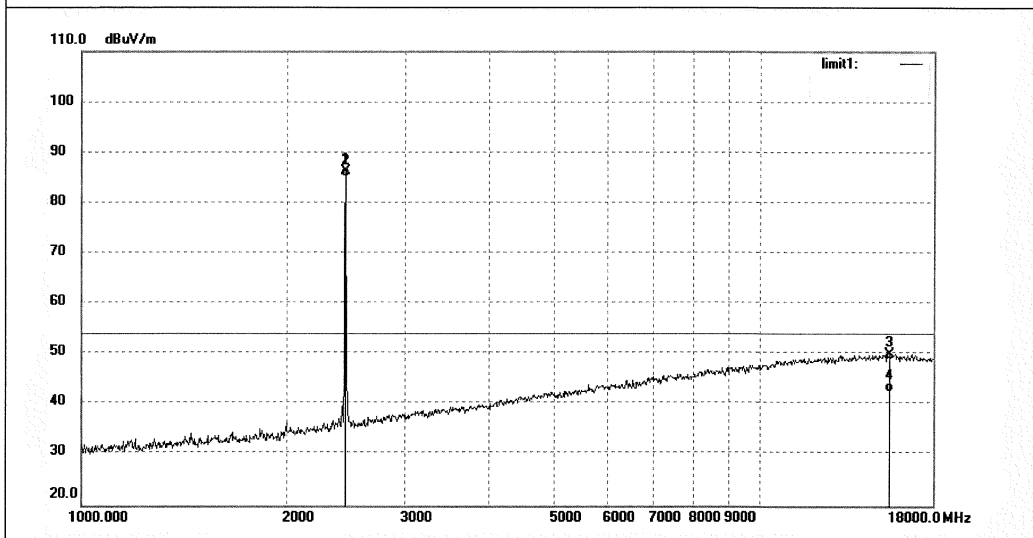
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3365	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



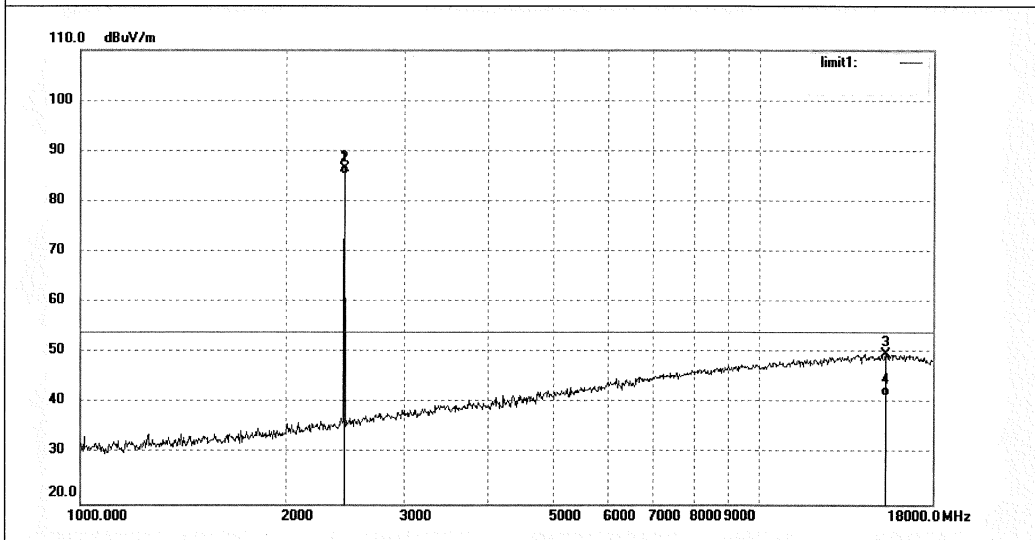
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	93.69	-7.34	86.35	114.00	-27.65	peak			
2	2448.393	92.59	-7.34	85.25	94.00	-8.75	AVG			
3	15532.938	10.04	40.09	50.13	74.00	-23.87	peak			
4	15532.938	2.45	40.09	42.54	54.00	-11.46	AVG			


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

Job No.: lgwade #3366	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
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	2448.393	93.81	-7.34	86.47	114.00	-27.53	peak			
2	2448.393	92.71	-7.34	85.37	94.00	-8.63	AVG			
3	15310.072	9.22	40.48	49.70	74.00	-24.30	peak			
4	15310.072	1.09	40.48	41.57	54.00	-12.43	AVG			


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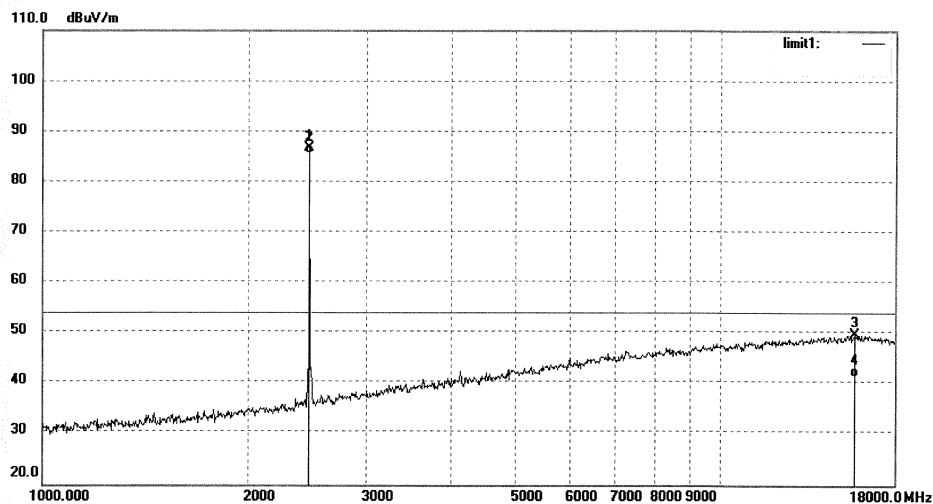
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3368	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	2473.987	94.00	-7.37	86.63	114.00	-27.37	peak			
2	2473.987	92.90	-7.37	85.53	94.00	-8.47	AVG			
3	15668.211	9.83	40.07	49.90	74.00	-24.10	peak			
4	15668.211	1.50	40.07	41.57	54.00	-12.43	AVG			


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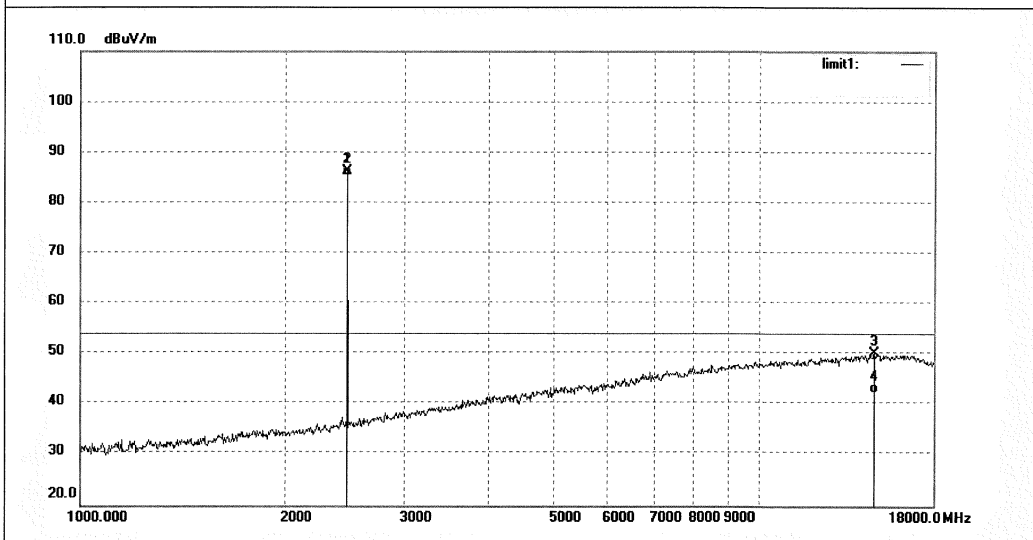
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #3367	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	2473.987	93.74	-7.37	86.37	114.00	-27.63	peak			
2	2473.987	92.64	-7.37	85.27	94.00	-8.73	AVG			
3	14702.914	8.20	41.99	50.19	74.00	-23.81	peak			
4	14702.914	0.49	41.99	42.48	54.00	-11.52	AVG			


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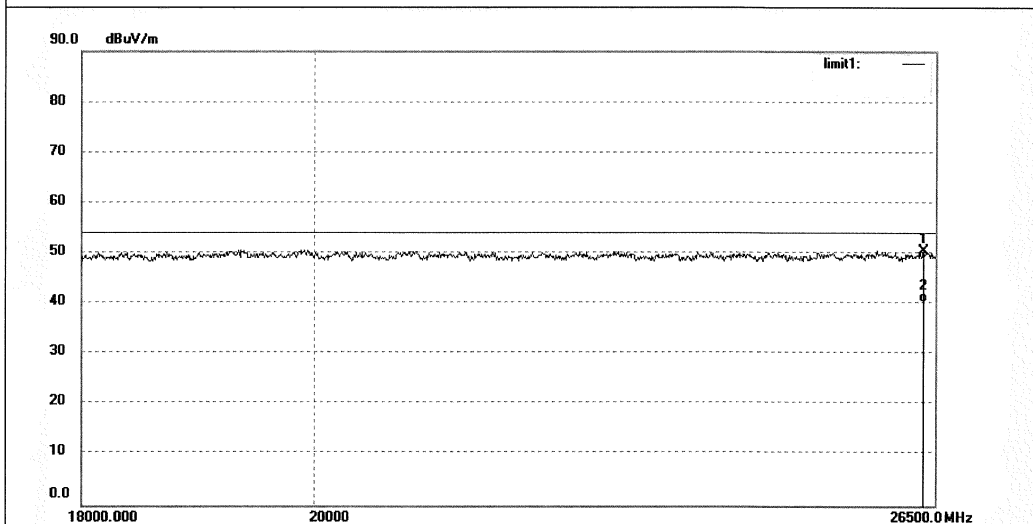
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3372	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



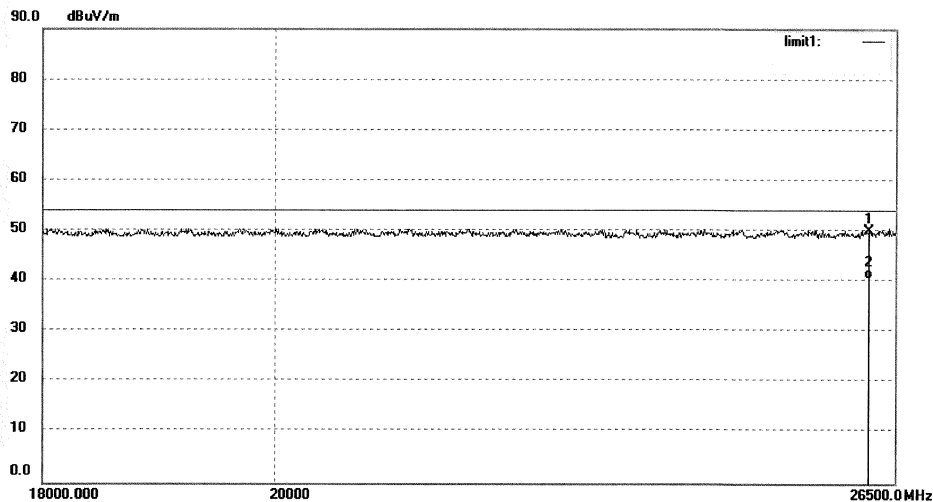
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26356.895	34.04	16.50	50.54	74.00	-23.46	peak			
2	26356.895	23.82	16.50	40.32	54.00	-13.68	AVG			


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

Job No.: Igwade #3371	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
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	26184.163	33.00	17.11	50.11	74.00	-23.89	peak			
2	26184.163	23.60	17.11	40.71	54.00	-13.29	AVG			


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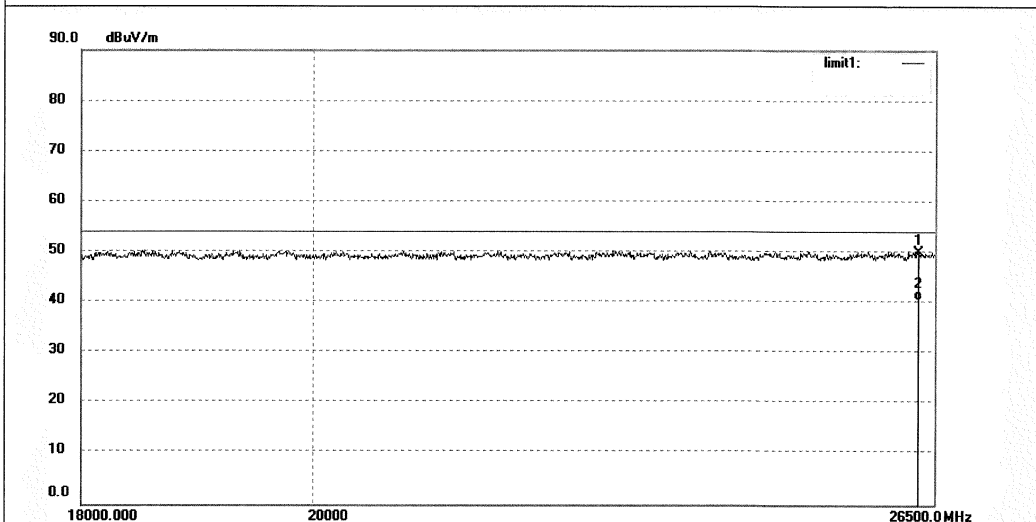
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3373	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



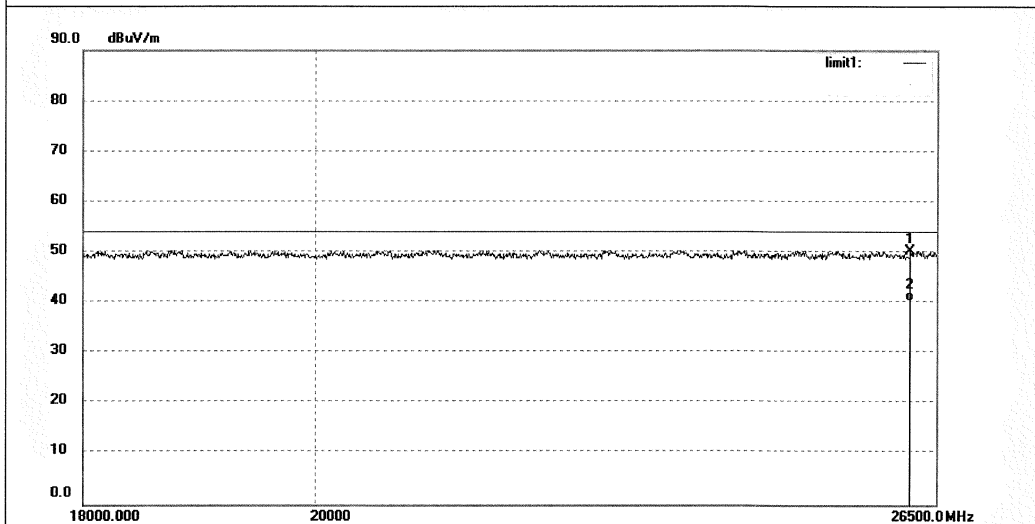
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26295.801	33.53	16.50	50.03	74.00	-23.97	peak			
2	26295.801	24.07	16.50	40.57	54.00	-13.43	AVG			


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

Job No.: lgwade #3374	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2448.393MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



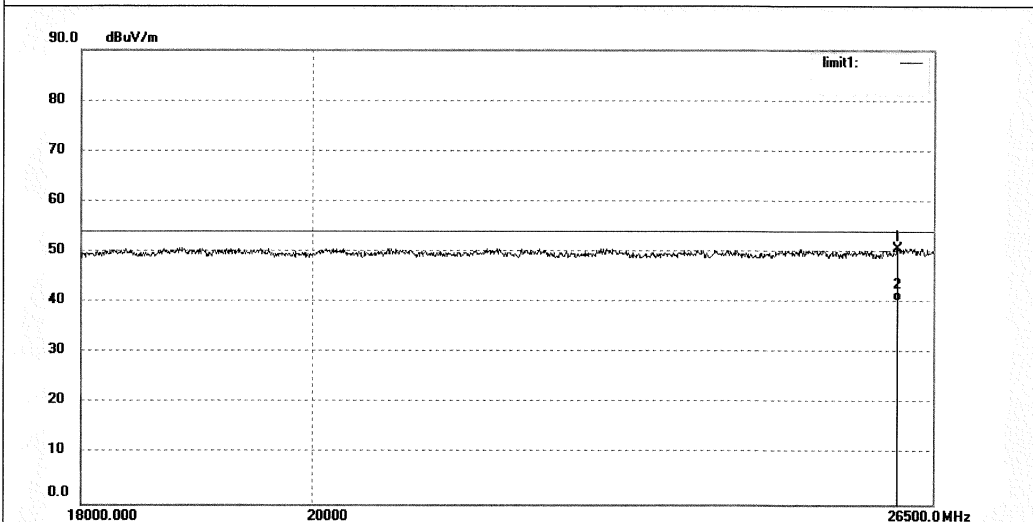
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26184.163	33.16	17.11	50.27	74.00	-23.73	peak			
2	26184.163	23.24	17.11	40.35	54.00	-13.65	AVG			


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

Job No.: Igwade #3376	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	26072.999	34.28	16.50	50.78	74.00	-23.22	peak			
2	26072.999	23.95	16.50	40.45	54.00	-13.55	AVG			


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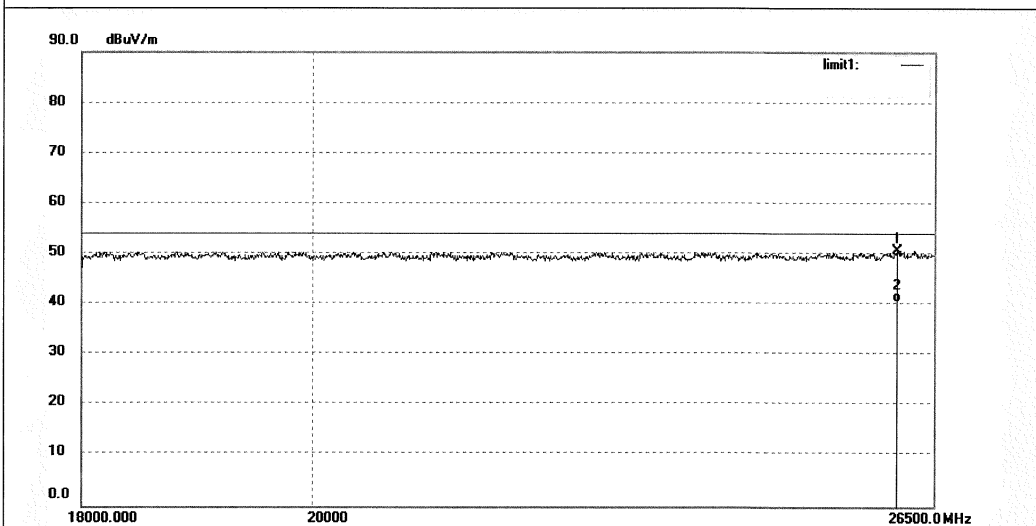
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #3375	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	26052.838	33.57	17.20	50.77	74.00	-23.23	peak			
2	26052.838	23.34	17.20	40.54	54.00	-13.46	AVG			

Test Plot of Frequency Band Edge


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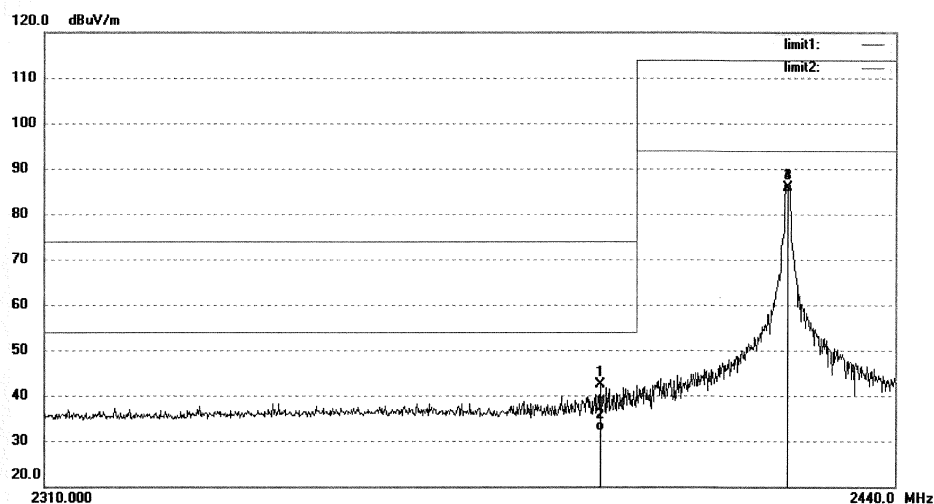
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lgwade #3364	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



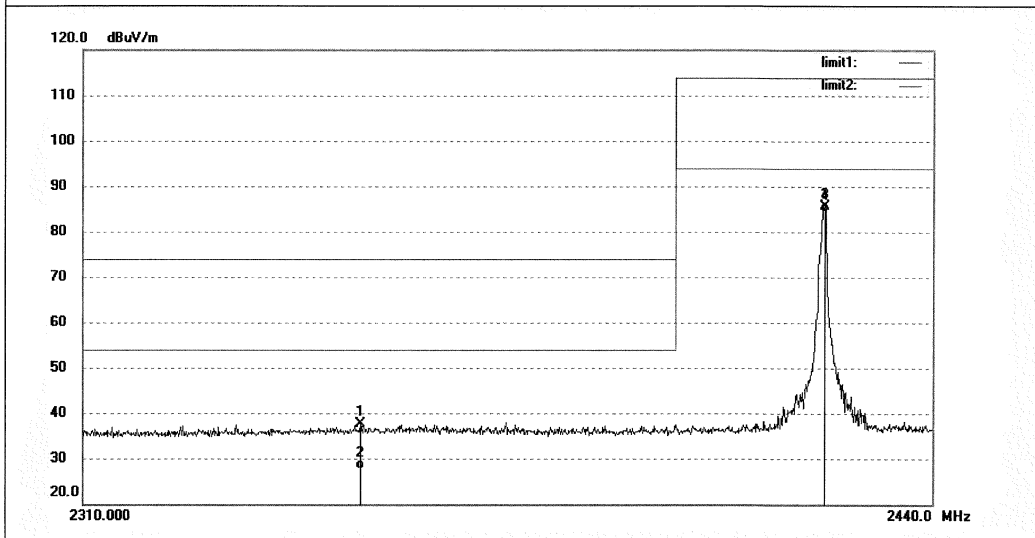
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2394.240	49.96	-7.50	42.46	74.00	-31.54	peak			
2	2394.240	39.64	-7.50	32.14	54.00	-21.86	AVG			
3	2423.000	93.34	-7.40	85.94	114.00	-28.06	peak			
4	2423.000	92.24	-7.40	84.84	94.00	-9.16	AVG			


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

Job No.: Igwade #3363	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2422.999MHz	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



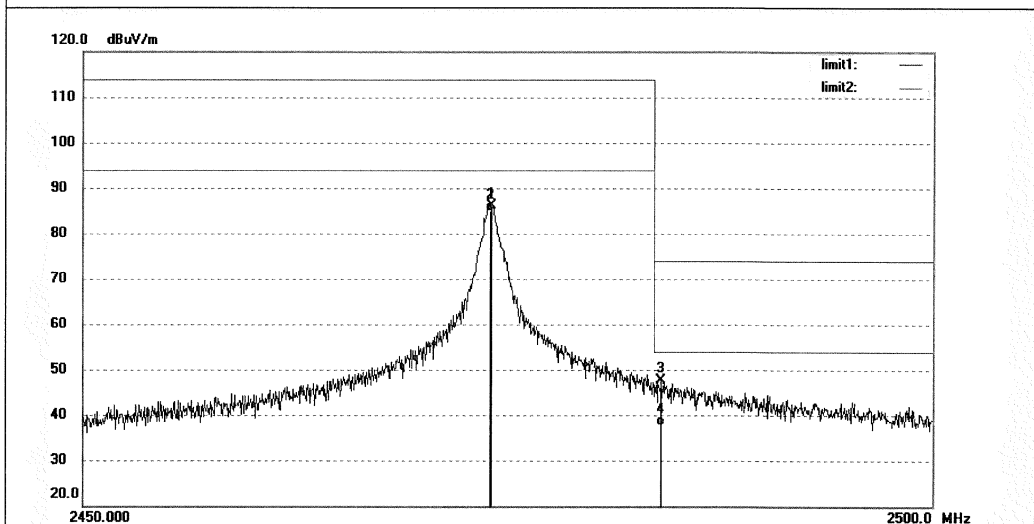
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2351.730	45.30	-7.78	37.52	74.00	-36.48	peak			
2	2351.730	35.34	-7.78	27.56	54.00	-26.44	AVG			
3	2423.000	92.98	-7.40	85.58	114.00	-28.42	peak			
4	2423.000	91.88	-7.40	84.48	94.00	-9.52	AVG			


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

Job No.: Igwade #3369	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	2474.000	93.39	-7.37	86.02	114.00	-27.98	peak			
2	2474.000	92.29	-7.37	84.92	94.00	-9.08	AVG			
3	2483.950	54.97	-7.38	47.59	74.00	-26.41	peak			
4	2483.950	44.91	-7.38	37.53	54.00	-16.47	AVG			


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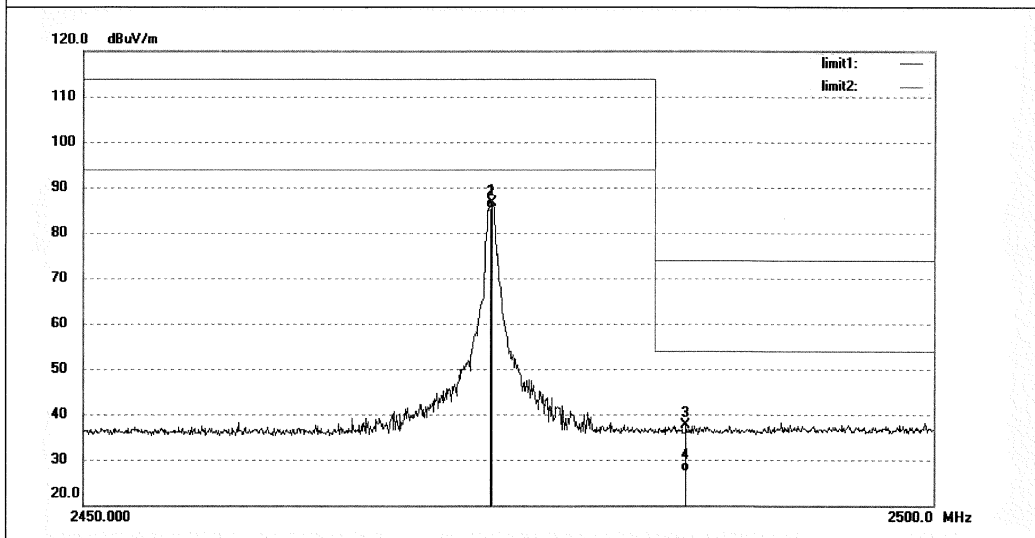
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3370	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/09/06/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: TX 2473.987MHz	Distance: 3m
Model: HC338	
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	2474.000	93.94	-7.37	86.57	114.00	-27.43	peak			
2	2474.000	92.84	-7.37	85.47	94.00	-8.53	AVG			
3	2485.350	45.02	-7.38	37.64	74.00	-36.36	peak			
4	2485.350	34.79	-7.38	27.41	54.00	-26.59	AVG			

Prüfbericht - Nr.: 50059457 001
*Test Report No.***Seite 57 von 71**
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5.1.5 Conducted emissions

RESULT:**Pass**

Date of testing : 2016-09-10
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, B
Earthing : Not Connected
Ambient temperature : 22°C
Relative humidity : 55%
Atmospheric pressure : 101kPa

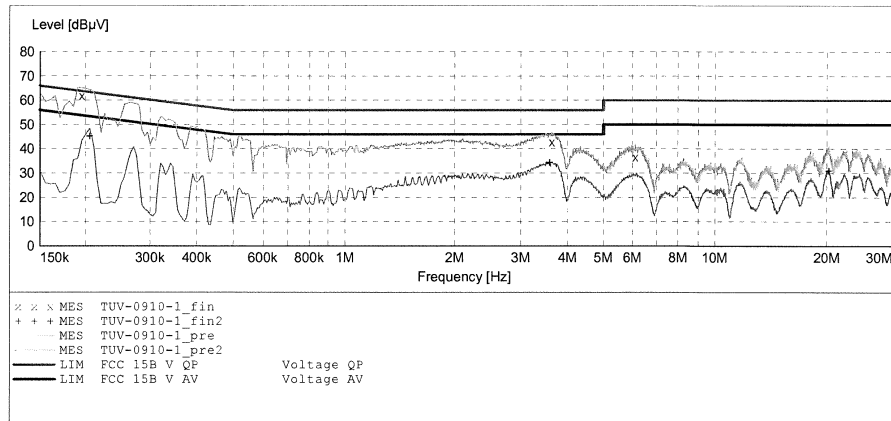
For details refer to following test plot.

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

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/10/2016 /

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-0910-1_fin"

9/10/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	61.90	10.5	64	1.9	QP	L1	GND
3.630000	42.80	11.1	56	13.2	QP	L1	GND
6.110000	36.60	11.2	60	23.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-0910-1_fin2"

9/10/2016

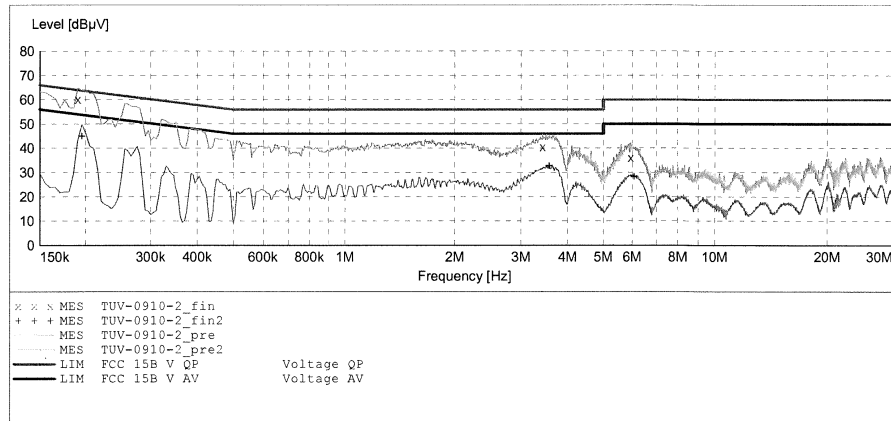
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.205000	45.10	10.5	53	8.3	AV	L1	GND
3.580000	34.30	11.1	46	11.7	AV	L1	GND
20.230000	30.90	11.4	50	19.1	AV	L1	GND

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

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/10/2016 /

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

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
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-0910-2_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	60.20	10.5	64	3.8	QP	N	GND
3.430000	40.50	11.1	56	15.5	QP	N	GND
5.950000	36.10	11.2	60	23.9	QP	N	GND

MEASUREMENT RESULT: "TUV-0910-2_fin2"

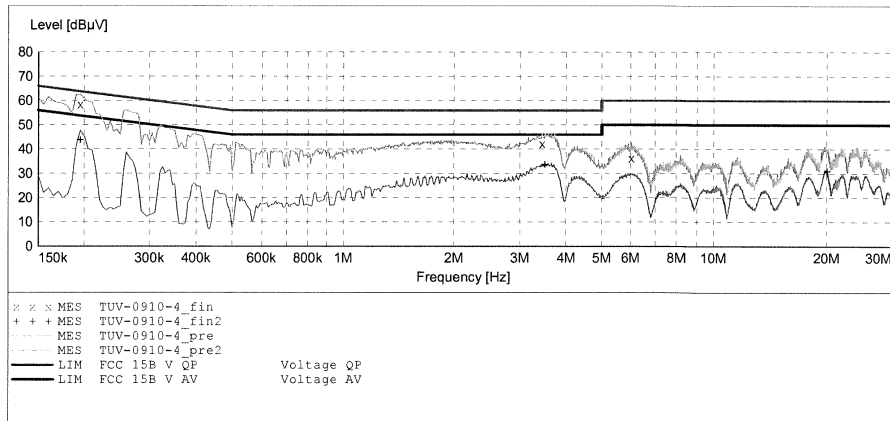
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	44.90	10.5	54	8.9	AV	N	GND
3.570000	32.70	11.1	46	13.3	AV	N	GND
6.070000	28.20	11.2	50	21.8	AV	N	GND

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

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/10/2016 / 5:52:37PM

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

Short Description: SUB STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 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-0910-4_fin"

9/10/2016 5:55PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	58.50	10.5	64	5.3	QP	L1	GND
3.440000	42.20	11.1	56	13.8	QP	L1	GND
6.030000	36.30	11.2	60	23.7	QP	L1	GND

MEASUREMENT RESULT: "TUV-0910-4_fin2"

9/10/2016 5:55PM

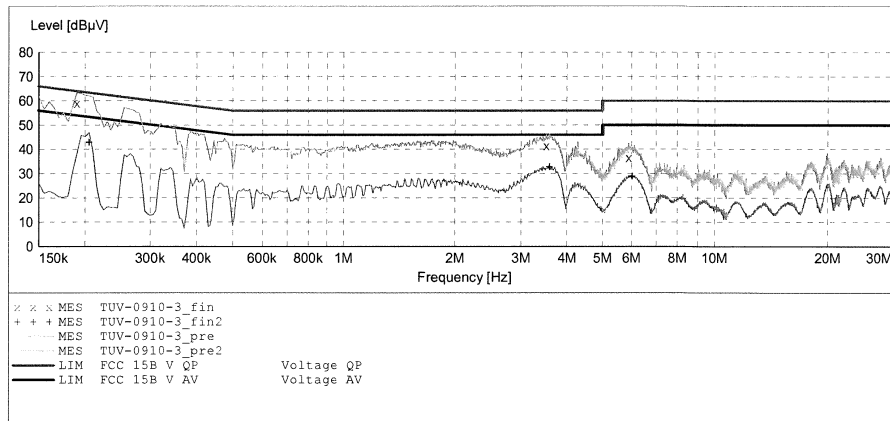
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	43.70	10.5	54	10.1	AV	L1	GND
3.500000	33.60	11.1	46	12.4	AV	L1	GND
20.020000	30.90	11.4	50	19.1	AV	L1	GND

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

EUT: 2.4GHz Wireless Remote control handset M/N:HC338
 Manufacturer: Limoss
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 9/10/2016 / 5:48:47PM

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-0910-3_fin"

9/10/2016 5:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	59.00	10.5	64	5.0	QP	N	GND
3.510000	41.40	11.1	56	14.6	QP	N	GND
5.890000	36.60	11.2	60	23.4	QP	N	GND

MEASUREMENT RESULT: "TUV-0910-3_fin2"

9/10/2016 5:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.205000	42.80	10.5	53	10.6	AV	N	GND
3.580000	32.70	11.1	46	13.3	AV	N	GND
6.020000	28.80	11.2	50	21.2	AV	N	GND

Prüfbericht - Nr.: 50059457 001

Test Report No.

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5.1.6 Radiated Emission

RESULT:**Pass**

Date of testing : 2016-09-10
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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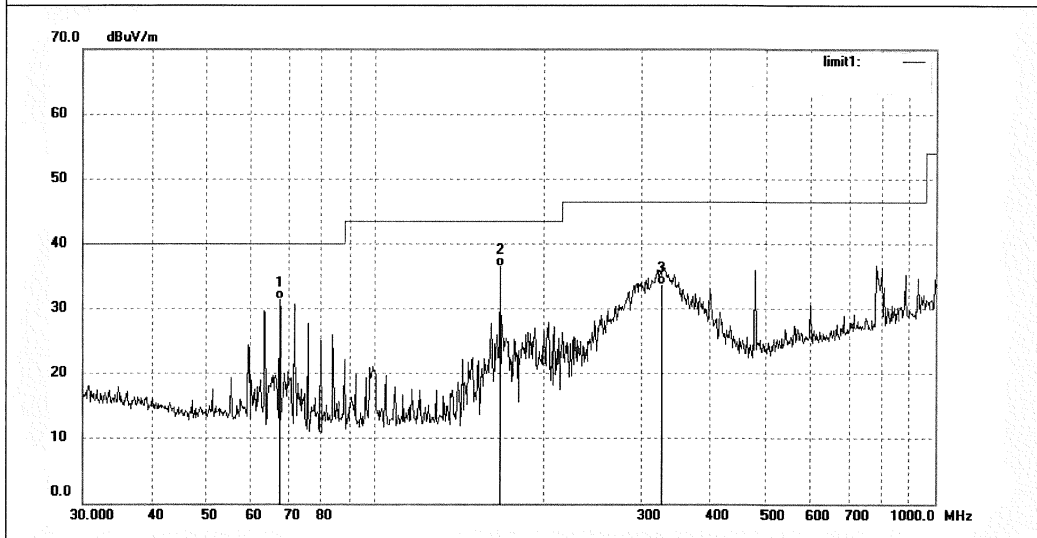
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #3423	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/10/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: HC338	
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	67.4381	47.34	-15.91	31.43	40.00	-8.57	QP			
2	167.8242	50.56	-14.02	36.54	43.50	-6.96	QP			
3	326.7395	42.21	-8.46	33.75	46.40	-12.65	QP			


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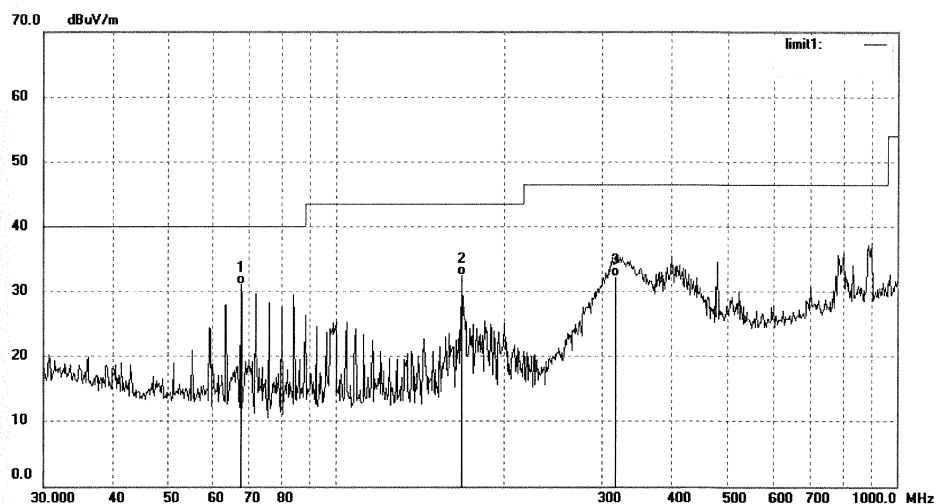
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #3424	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/10/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: HC338	
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	67.4381	46.99	-15.91	31.08	40.00	-8.92	QP			
2	167.8242	46.40	-14.02	32.38	43.50	-11.12	QP			
3	317.7010	41.17	-8.81	32.36	46.40	-14.04	QP			


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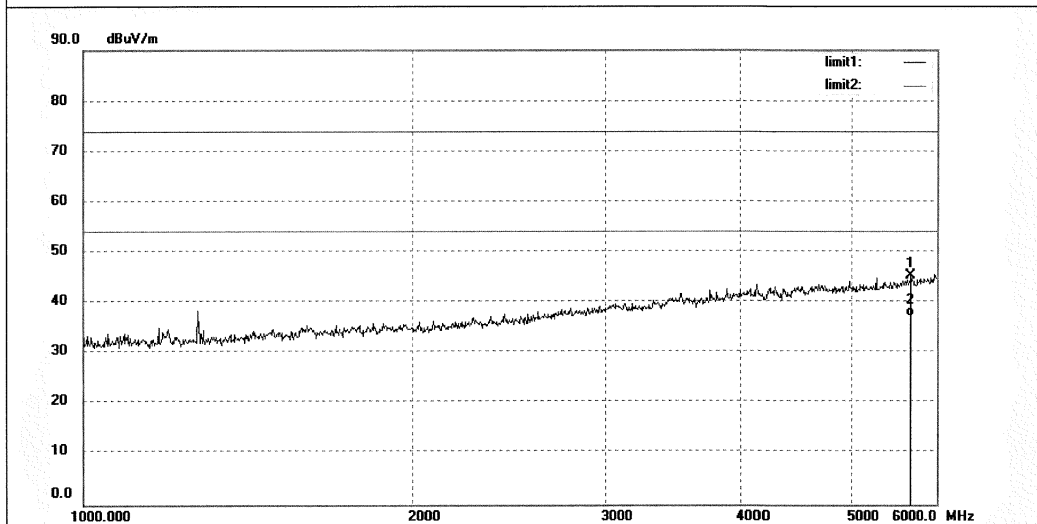
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #3426	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/10/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: HC338	
Manufacturer: Limoss	

Note:



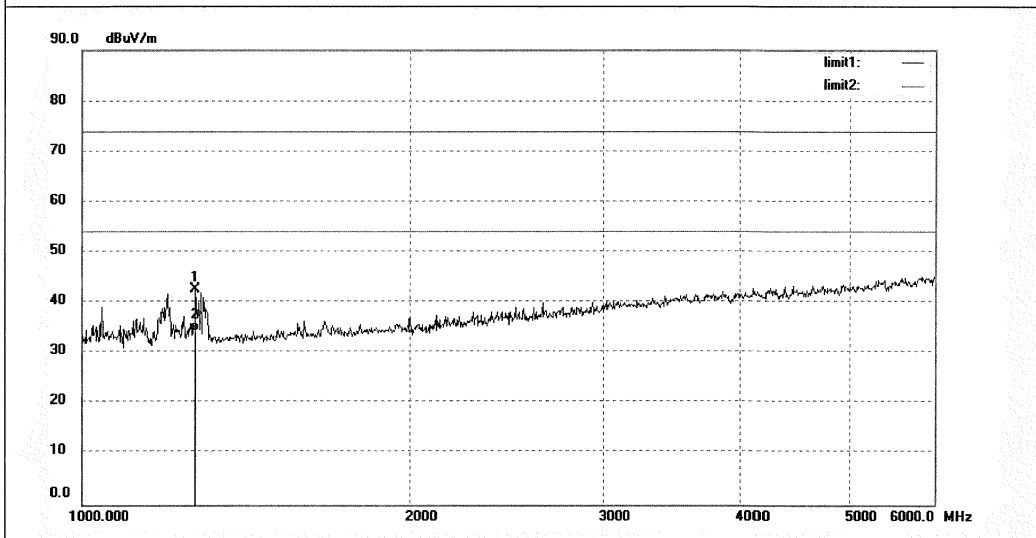
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5675.819	44.17	1.20	45.37	74.00	-28.63	peak			
2	5675.819	36.06	1.20	37.26	54.00	-16.74	AVG			


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

Job No.: LGWADE #3425	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/10/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 2.4GHz Wireless Remote control handset	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: HC338	
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	1269.095	54.83	-12.26	42.57	74.00	-31.43	peak			
2	1269.095	46.50	-12.26	34.24	54.00	-19.76	AVG			

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

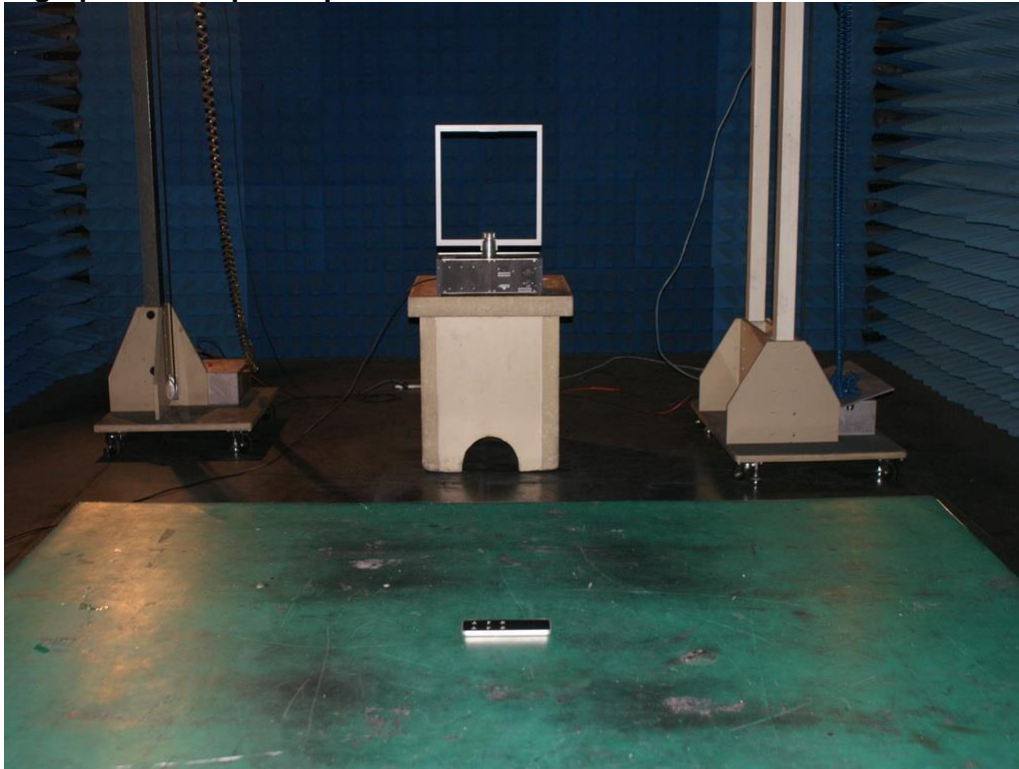
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum output power of the transmitter is 0.122mW (-9.12dBm) only, which less than 4mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

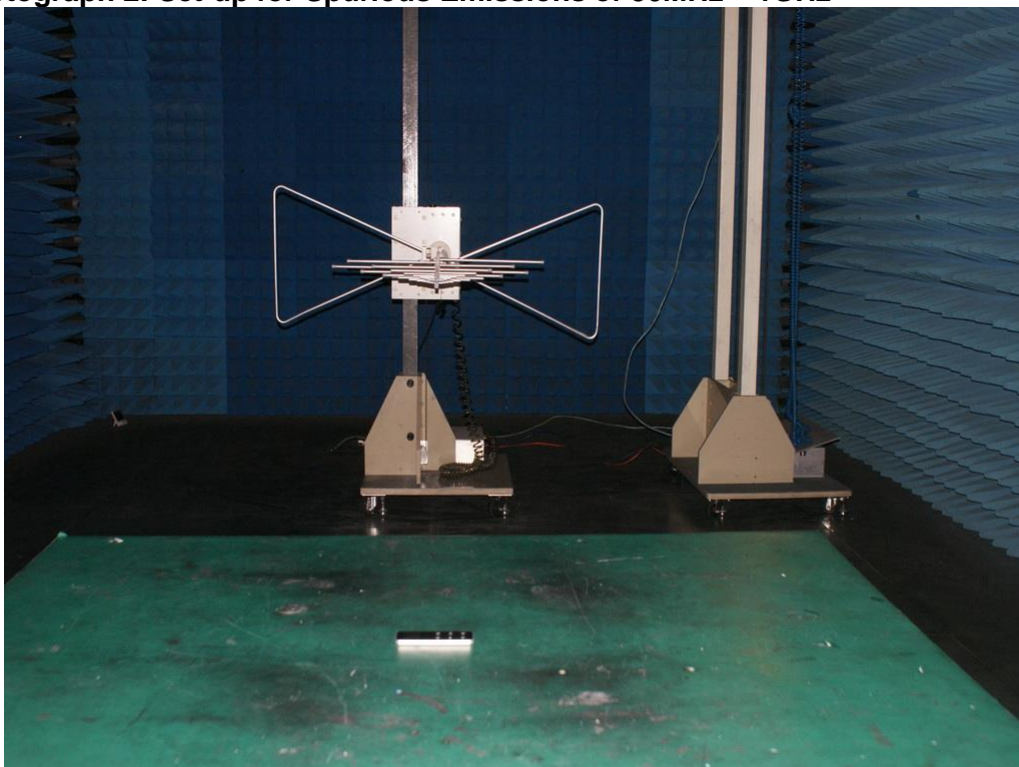
Since maximum output power of the transmitter is $0.122\text{mW} < 10\text{mW}$, and the distance from EUT to human is $\geq 5\text{mm}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

7. Photographs of the Test Set-Up

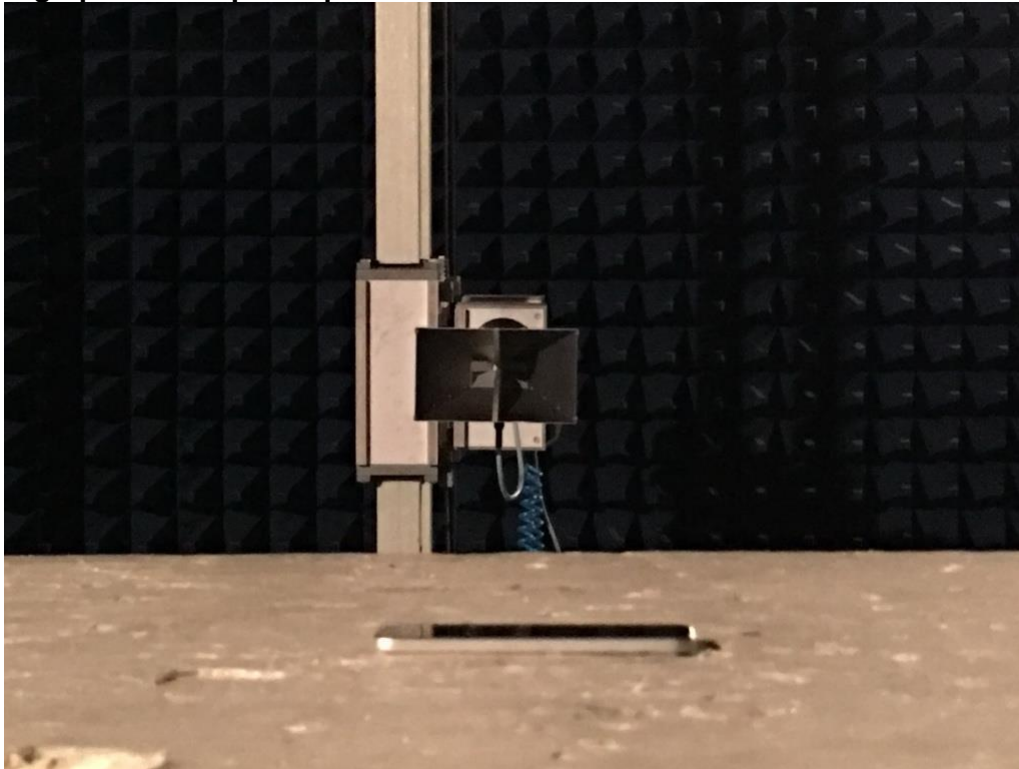
Photograph 1: Set-up for Spurious Emissions below 30MHz



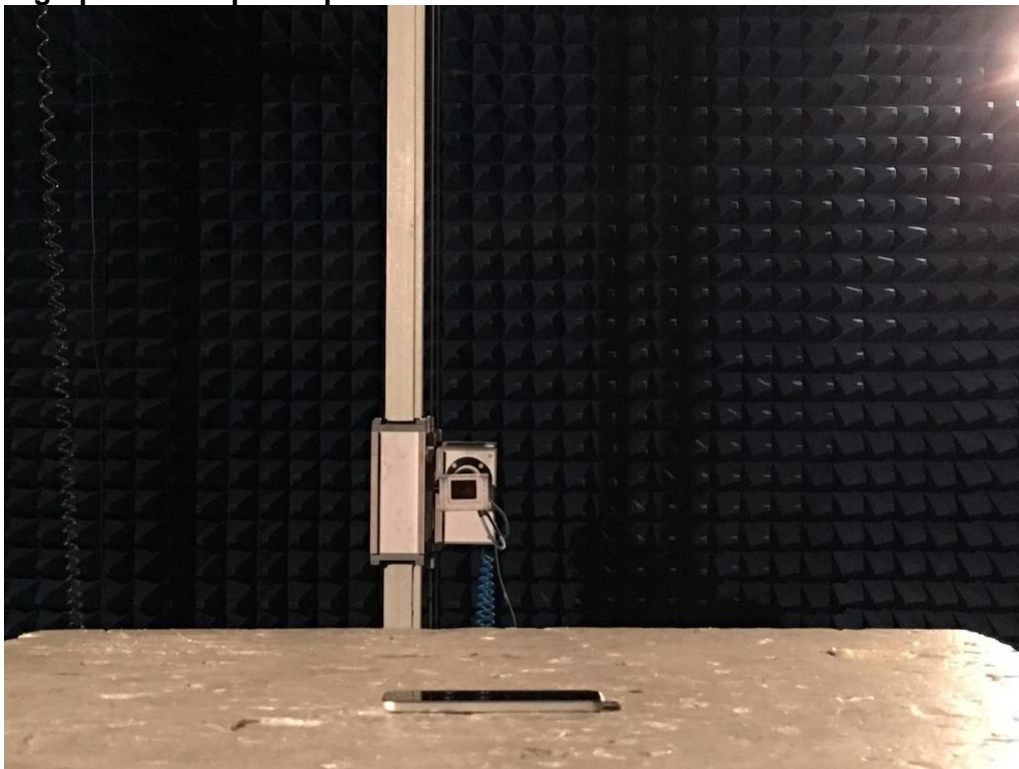
Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz



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



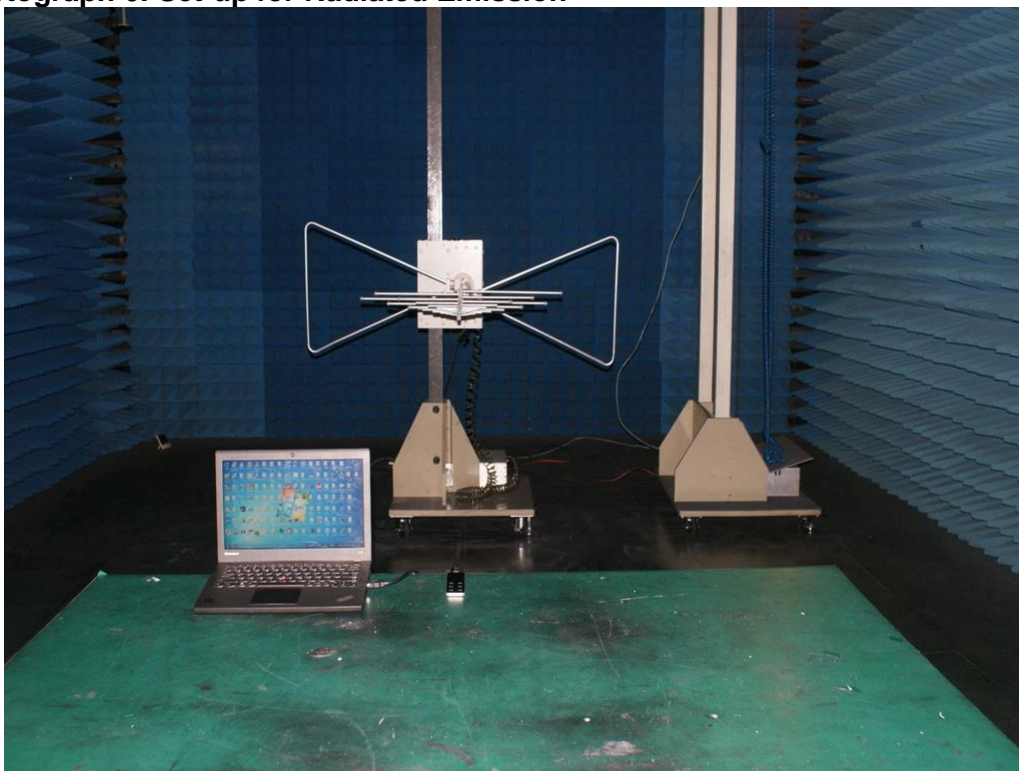
Photograph 4: Set-up for Spurious Emissions of 18 – 26.5GHz



Photograph 5: Set-up for Conducted Emission



Photograph 6: Set-up for Radiated Emission



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