

Prüfbericht-Nr.: Test Report No.:	50089031 001	Auftrags-Nr.: Order No.:	164088832	Seite 1 von 71 Page 1 of 71
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	23.03.2017	
Auftraggeber: Client:	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: Test item:	Wireless Receiver			
Bezeichnung / Typ-Nr.: Identification / Type No.:	MC251 (limoss)			
Auftrags-Inhalt: Order content:	FCC/IC Certification			
Prüfgrundlage: Test specification:	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 9 August 2016 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: Date of receipt:	23.03.2017			
Prüfmuster-Nr.: Test sample No.:	1700951, 1700952			
Prüfzeitraum: Testing period:	29.03.2017 - 08.06.2017			
Ort der Prüfung: Place of testing:	Accurate Technology Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
30.06.2017 Alex Lan / Project Engineer		30.06.2017 Owen Tian / Technical Certifier		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other:		FCC ID: 2AH9H-MC251 IC: 21543-MC251		
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* 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. 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.				

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	2018-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2018-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2018-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2018-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2018-01-06
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2018-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2018-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2018-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2018-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2018-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2018-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2018-01-06
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2018-01-06
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2018-01-06
Signal Generator	Rohde & Schwarz	SMB100A	108362	2018-01-06
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2018-01-06
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2018-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2018-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2018-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2018-01-06
Voltage Probe	Schwarzbeck	TK9416	N/A	2018-01-06
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2018-01-06
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.2	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.3	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.14	2018-01-06

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	$< \pm 0.60$ dB
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42$ dB
Conducted Emission	$< \pm 2.23$ dB
Radiated Emission	$< \pm 4.42$ 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 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	MC251
FCC ID	2AH9H-MC251
IC	21543-MC251
HVIN	MC251
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 30V
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, wireless mode
 - 1. Transmitting
 - 2. Receiving
- B. On, wire control 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-US	Input: AC 100-240V, 50/60Hz; 0.7-1.6A; Output: DC 29V, 2.0A
Motor Actuator	limoss	MD120-01-L1-390-199	Input: DC 18-35V, 5A

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

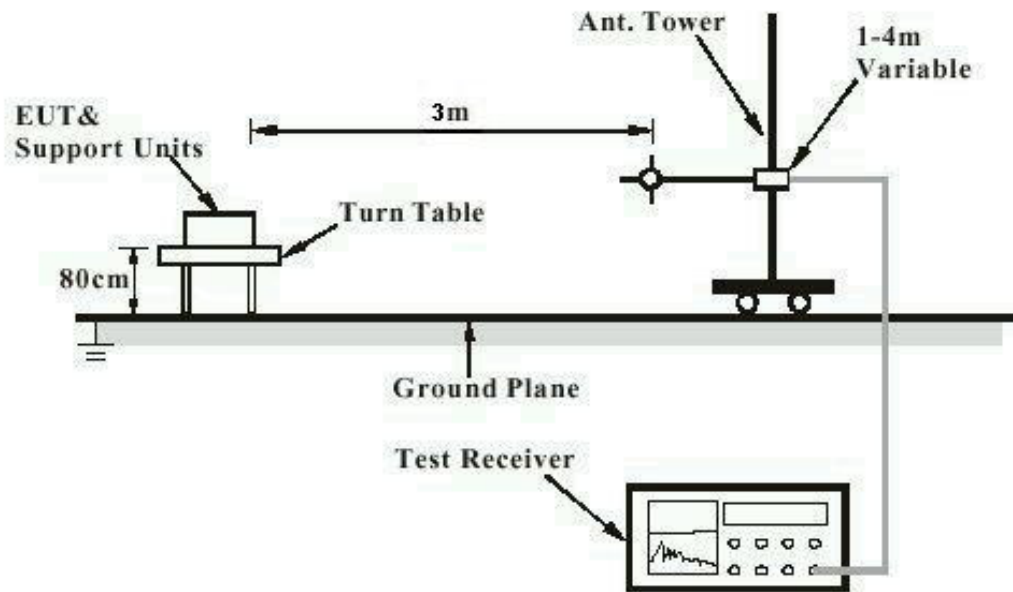


Diagram of Measurement Configuration for Radiation Test for above 1GHz

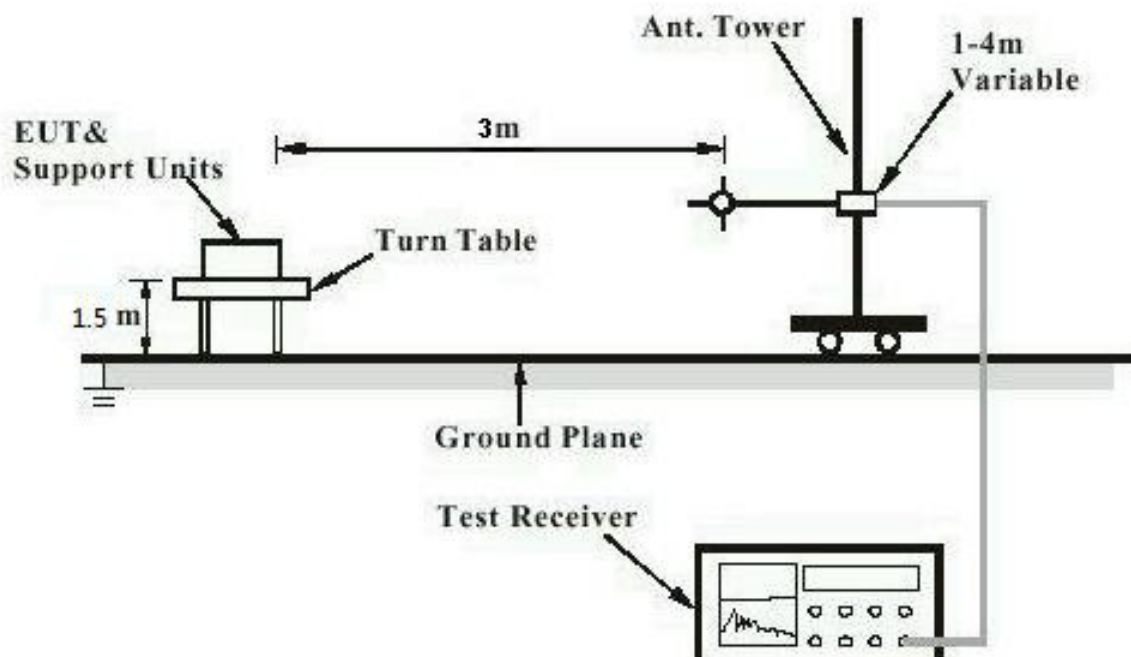


Diagram of Measurement Equipment Configuration for Transmitter Measurement

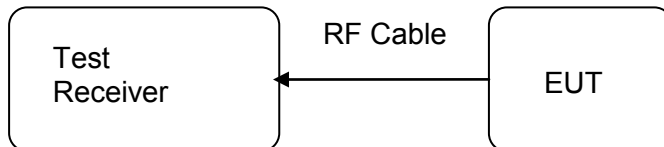
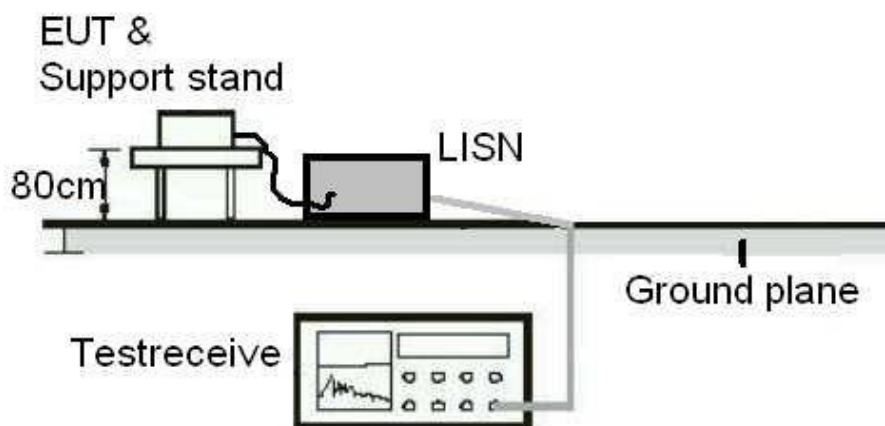


Diagram of Measurement Equipment Configuration for Conduction Measurement



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 : 2017-06-06
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

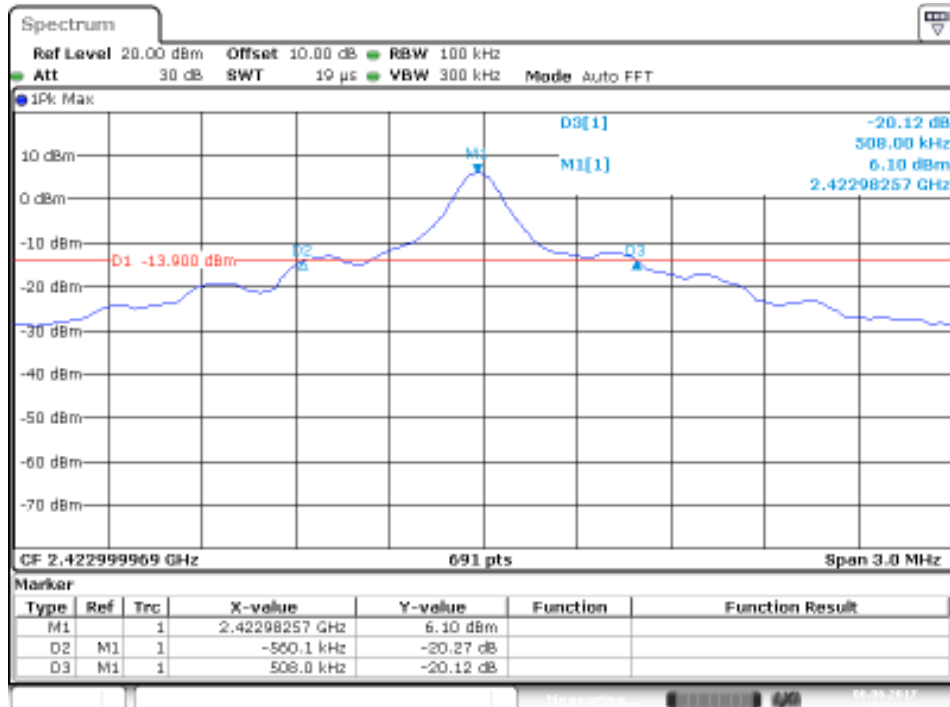
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 21°C
Relative humidity : 60%
Atmospheric pressure : 101kPa

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

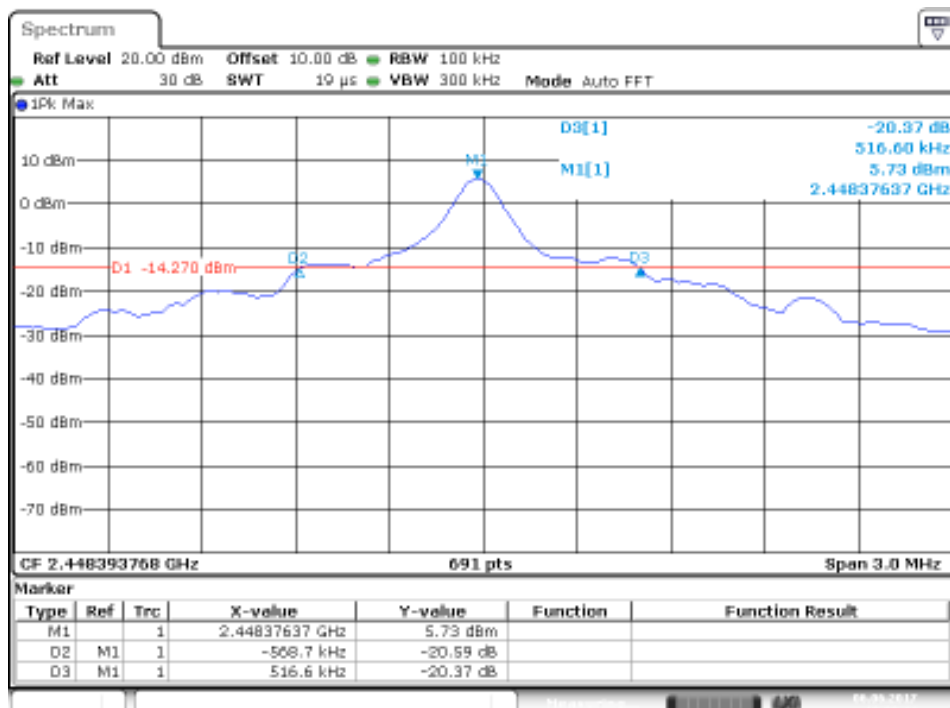
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	1.068	1.520
Mid Channel	2448.393	1.085	1.480
High Channel	2473.987	1.064	1.467

For details refer to following test plot.

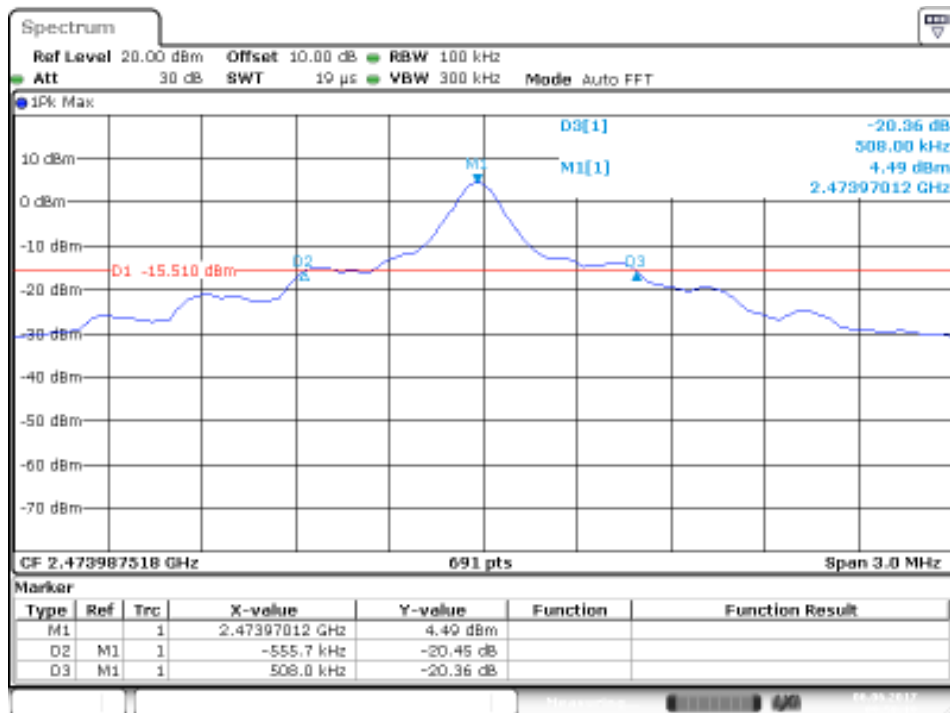
Test Plot of 20dB Bandwidth



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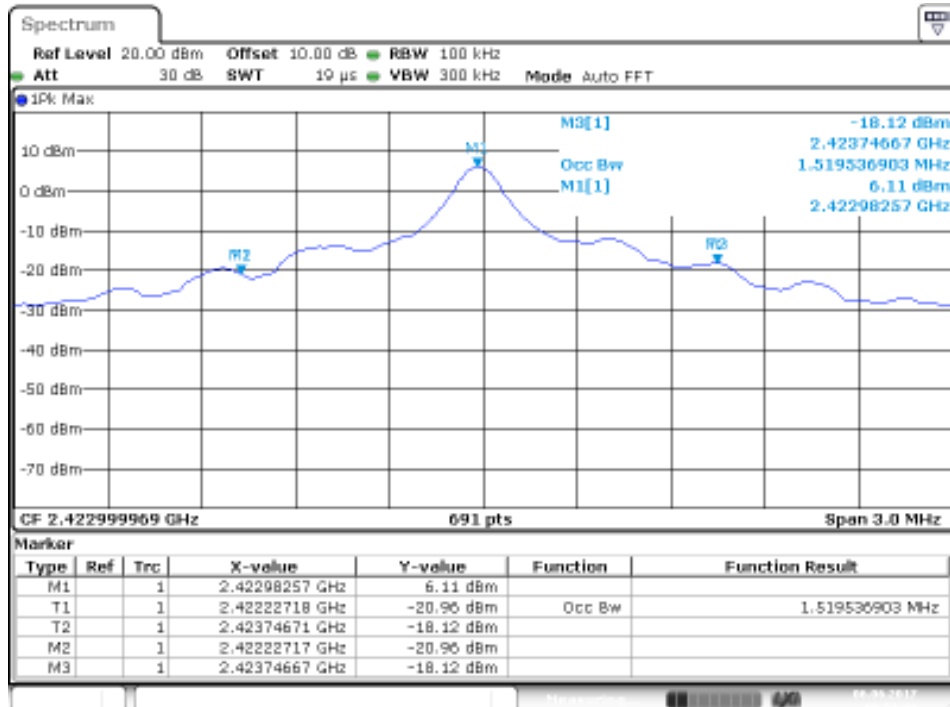


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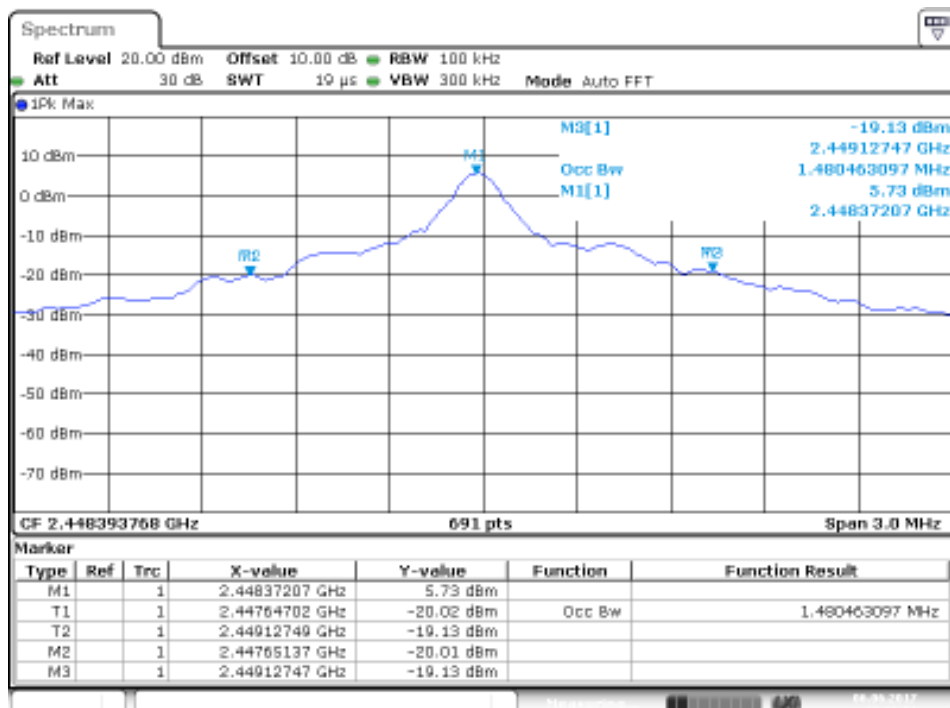


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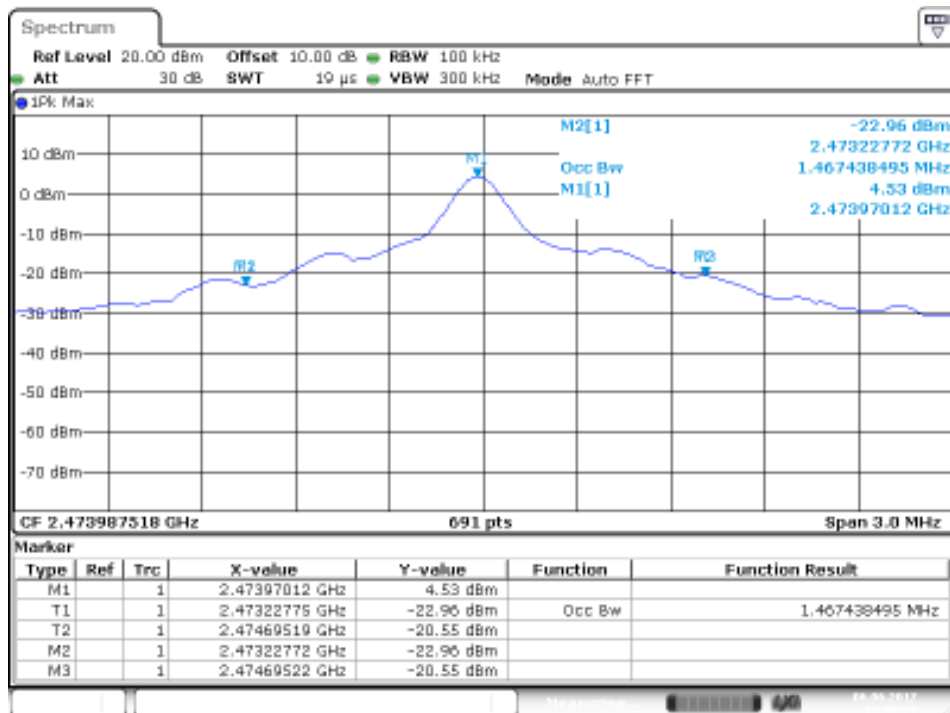
Test Plot of 99% Bandwidth



Date: 6.JUN.2017 09:51:43



Date: 6.JUN.2017 10:06:51



Date: 6.JUN.2017 09:50:23


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: LGW2017 #2416

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

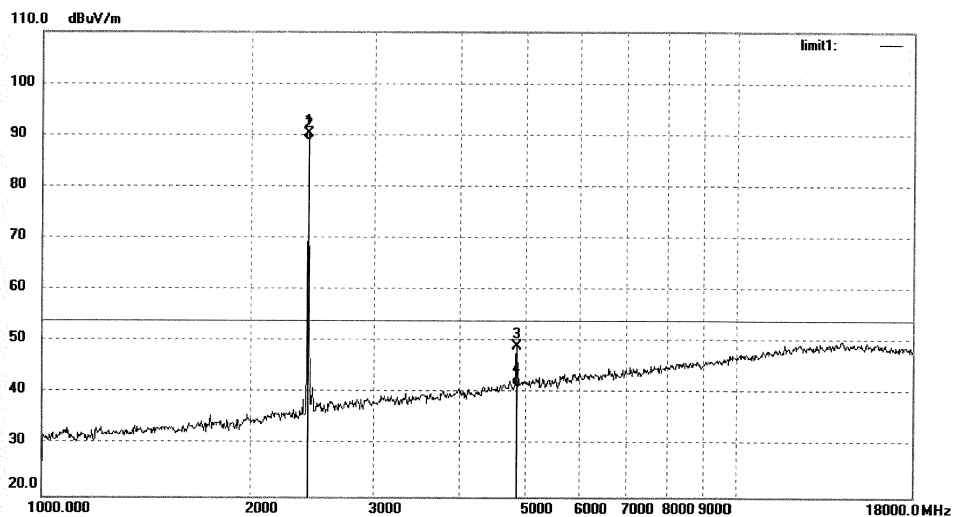
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	91.84	-1.52	90.32	114.00	-23.68	peak			
2	2422.999	90.54	-1.52	89.02	94.00	-4.98	AVG			
3	4846.001	43.81	5.28	49.09	74.00	-24.91	peak			
4	4846.001	36.19	5.28	41.47	54.00	-12.53	AVG			


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Job No.: LGW2017 #2417

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

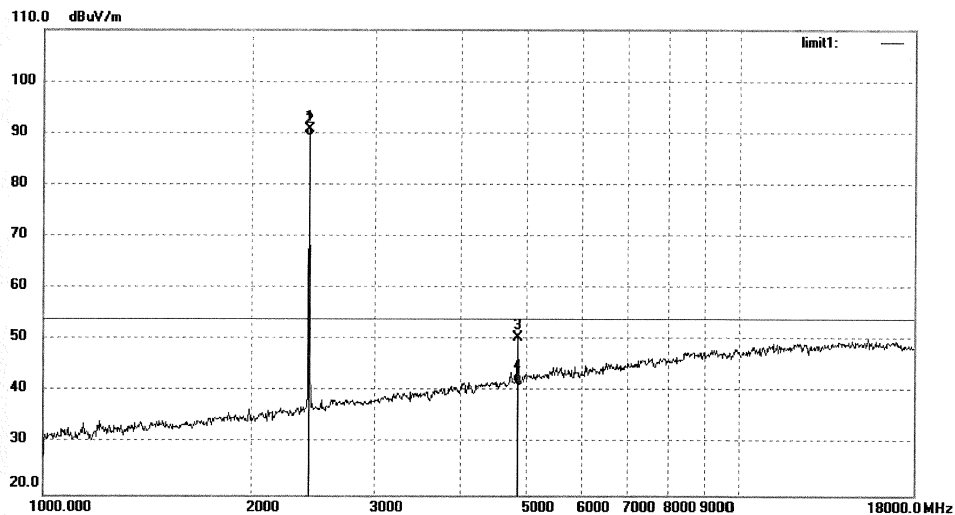
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.18	-1.52	90.66	114.00	-23.34	peak			
2	2422.999	90.88	-1.52	89.36	94.00	-4.64	AVG			
3	4843.997	45.16	5.28	50.44	74.00	-23.56	peak			
4	4843.997	36.36	5.28	41.64	54.00	-12.36	AVG			


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Job No.: LGW2017 #2420

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

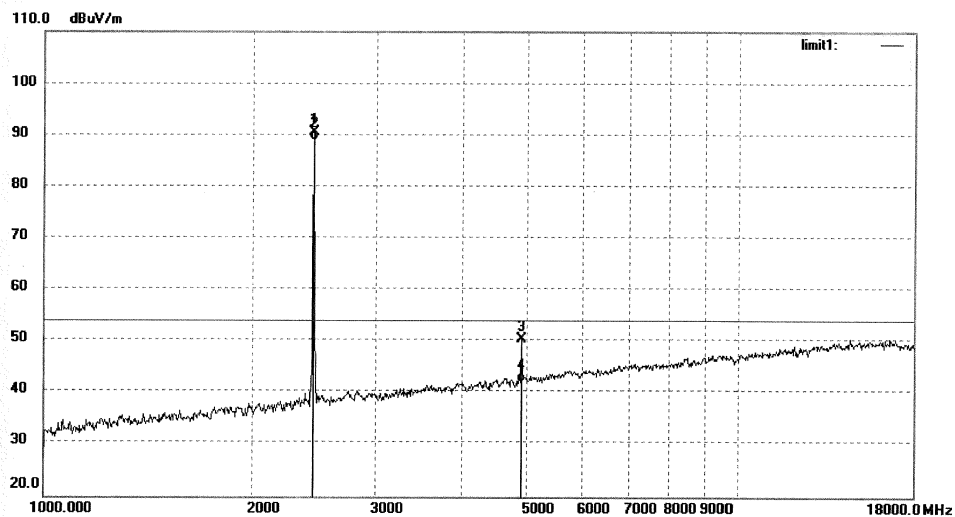
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	91.92	-1.42	90.50	114.00	-23.50	peak			
2	2448.393	90.42	-1.42	89.00	94.00	-5.00	AVG			
3	4896.786	44.70	5.74	50.44	74.00	-23.56	peak			
4	4896.786	36.40	5.74	42.14	54.00	-11.86	AVG			


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Job No.: LGW2017 #2421

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

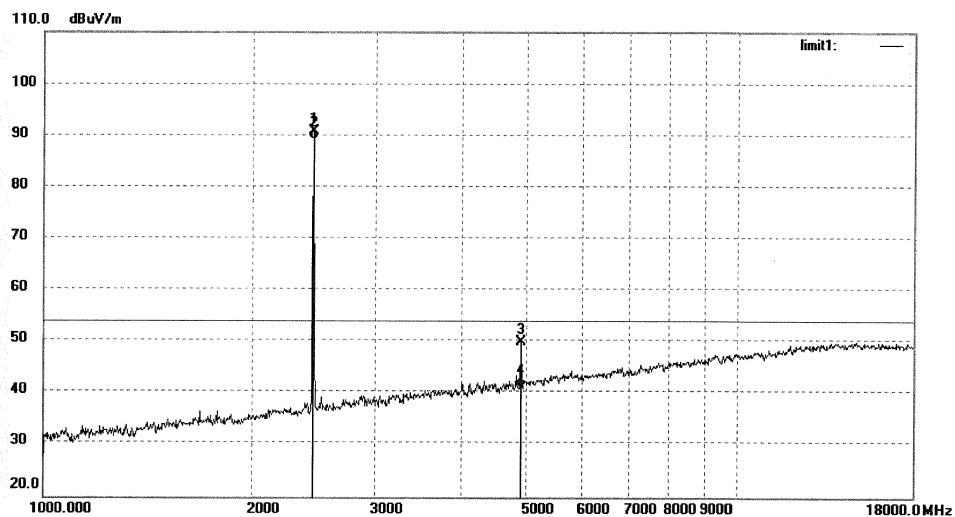
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.20	-1.42	90.78	114.00	-23.22	peak			
2	2448.393	90.70	-1.42	89.28	94.00	-4.72	AVG			
3	4896.794	44.37	5.74	50.11	74.00	-23.89	peak			
4	4896.794	35.50	5.74	41.24	54.00	-12.76	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Job No.: LGW2017 #2423

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

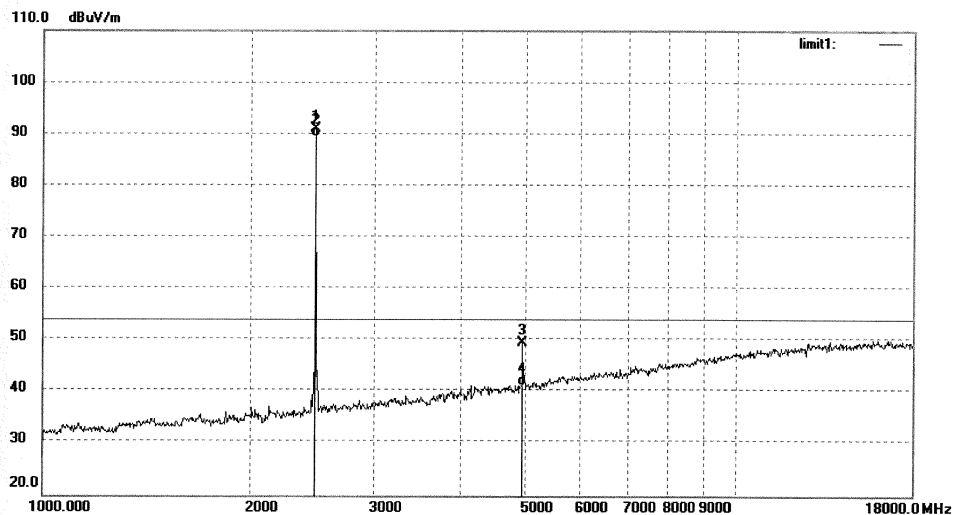
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.33	-1.41	90.92	114.00	-23.08	peak			
2	2473.987	90.83	-1.41	89.42	94.00	-4.58	AVG			
3	4948.012	43.55	6.03	49.58	74.00	-24.42	peak			
4	4948.012	35.21	6.03	41.24	54.00	-12.76	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGW2017 #2422

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

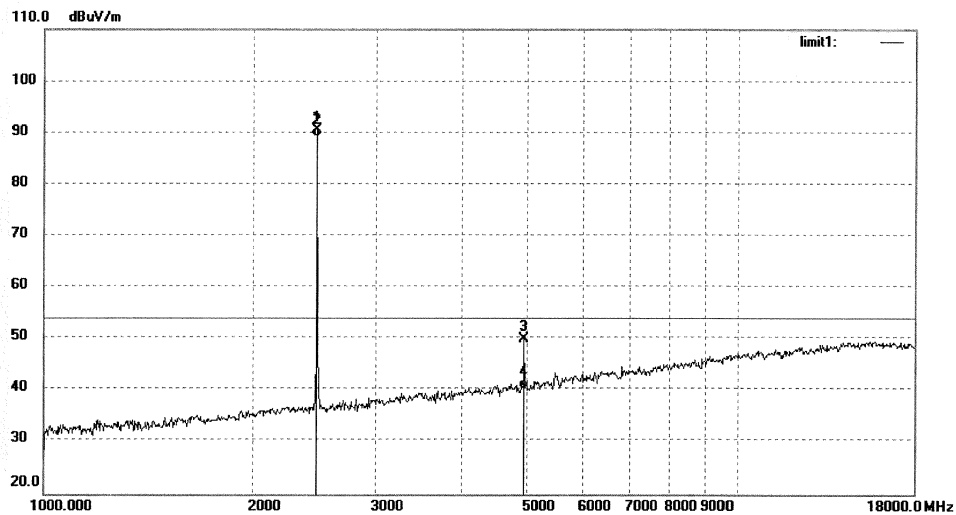
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.04	-1.41	90.63	114.00	-23.37	peak			
2	2473.987	90.54	-1.41	89.13	94.00	-4.87	AVG			
3	4947.990	43.93	6.03	49.96	74.00	-24.04	peak			
4	4947.990	34.31	6.03	40.34	54.00	-13.66	AVG			

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

Date of testing	:	2017-05-27 to 2017-06-08
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d) RSS-210 Clause B10(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

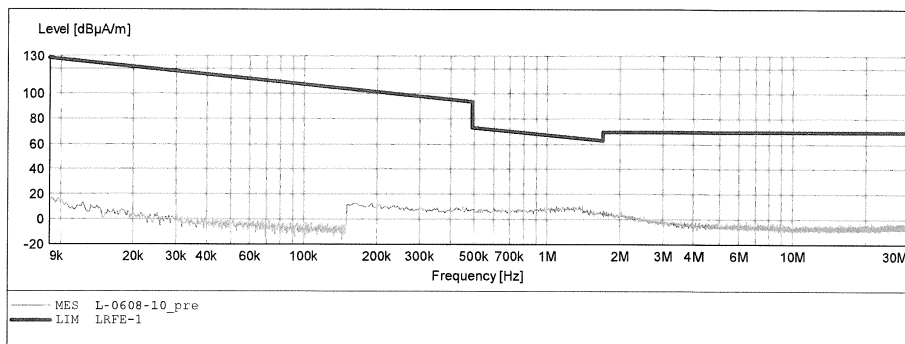
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2017-06-08 /

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



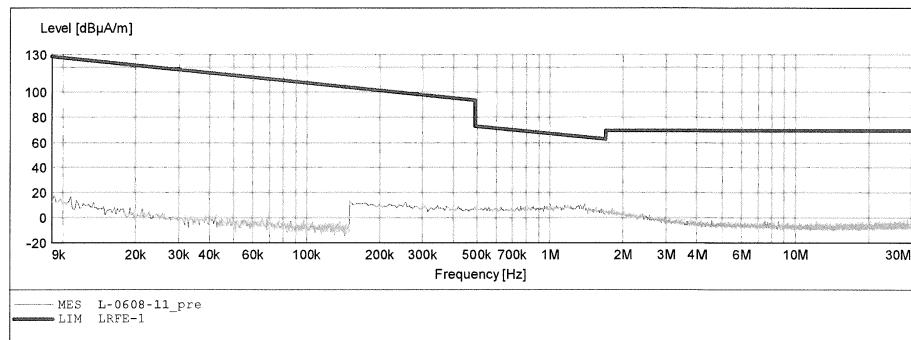
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2017-06-08 /

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



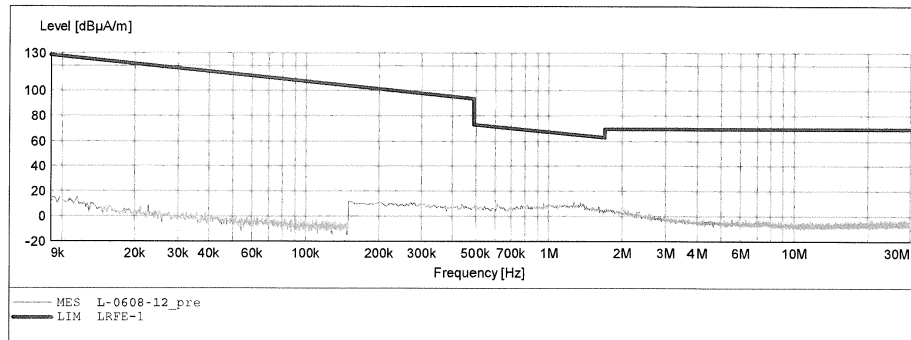
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

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



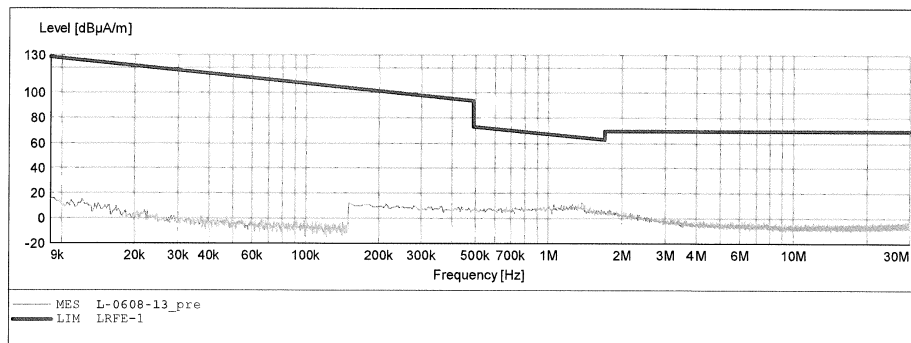
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2448.393768MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2017-06-08 /

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



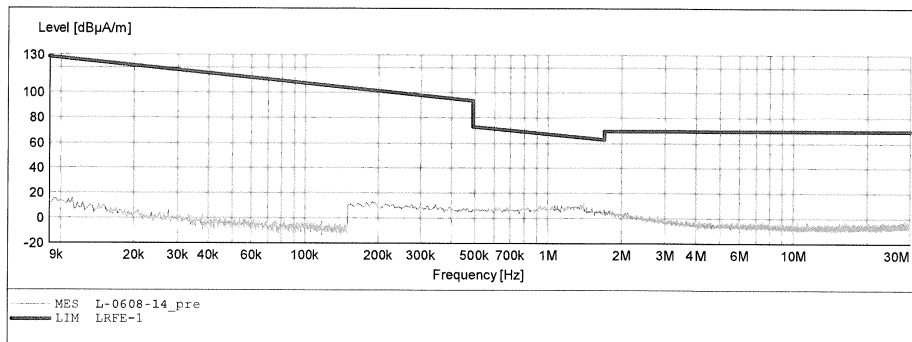
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2448.393768MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2017-06-08 /

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



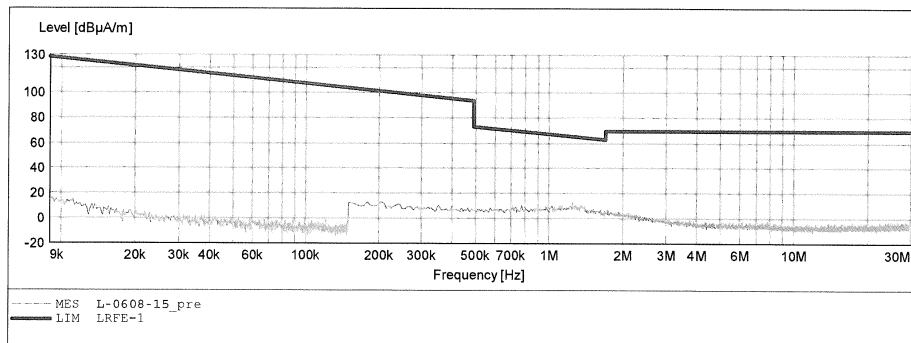
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2448.393768MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

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



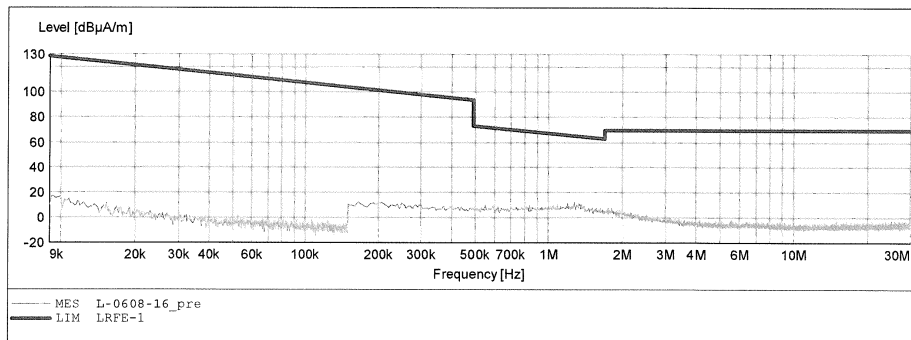
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2473.987518MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2017-06-08 /

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



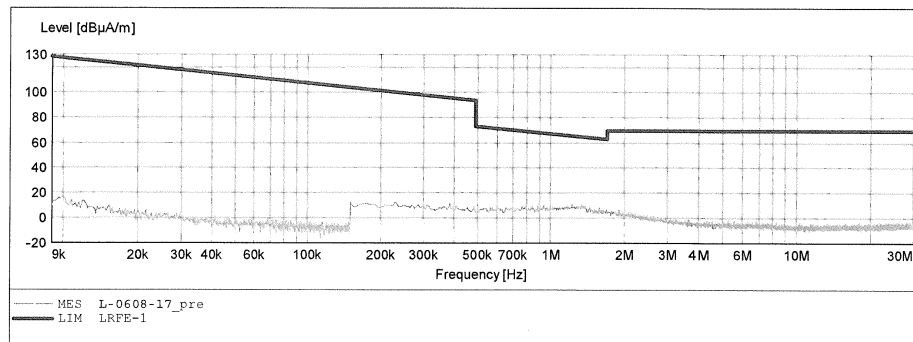
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2473.987518MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2017-06-08 /

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



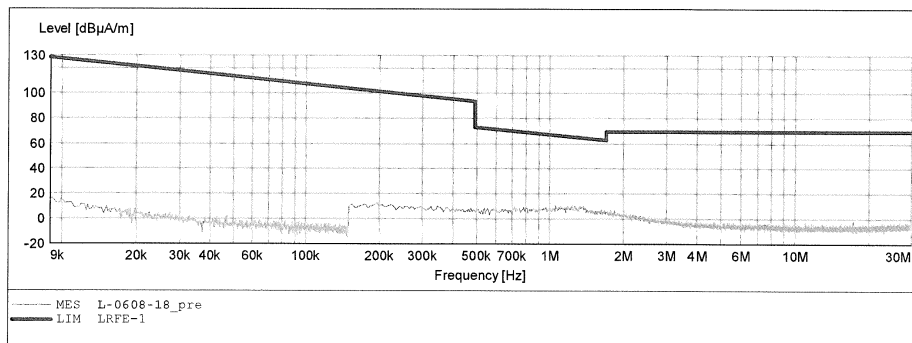
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2473.987518MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

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.: LGW2017 #2484

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

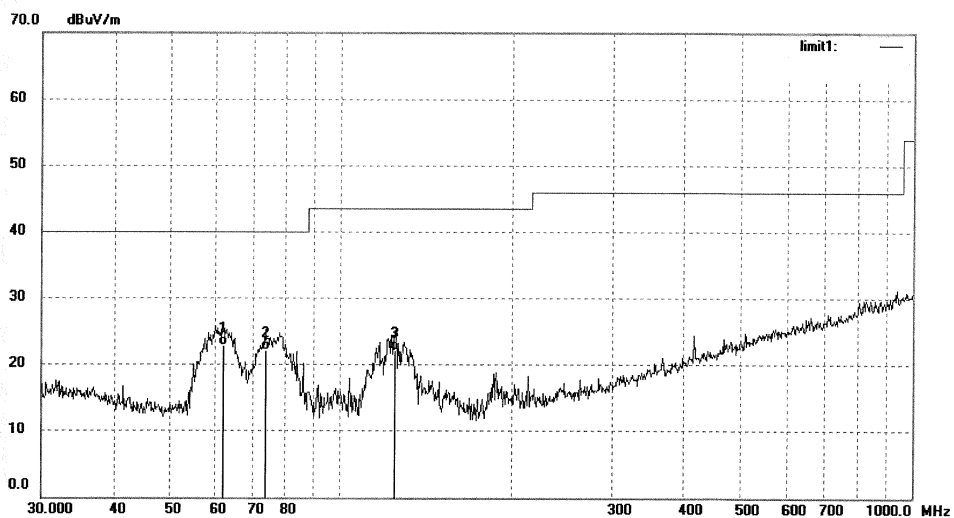
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	61.9951	37.47	-14.62	22.85	40.00	-17.15	QP			
2	73.6170	38.74	-16.54	22.20	40.00	-17.80	QP			
3	124.5690	35.64	-13.58	22.06	43.50	-21.44	QP			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2485

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

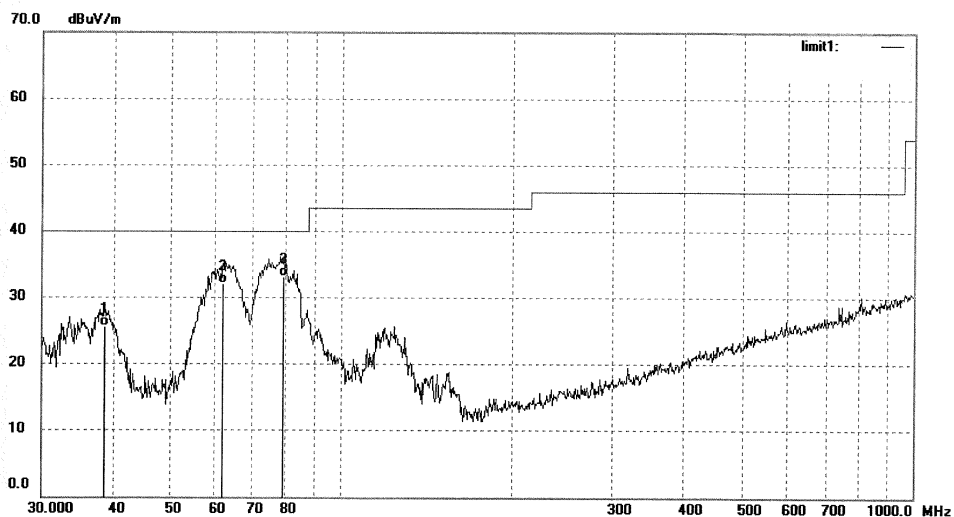
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	38.4808	36.88	-11.20	25.68	40.00	-14.32	QP			
2	61.7781	46.65	-14.55	32.10	40.00	-7.90	QP			
3	78.9651	49.65	-16.52	33.13	40.00	-6.87	QP			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2487

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

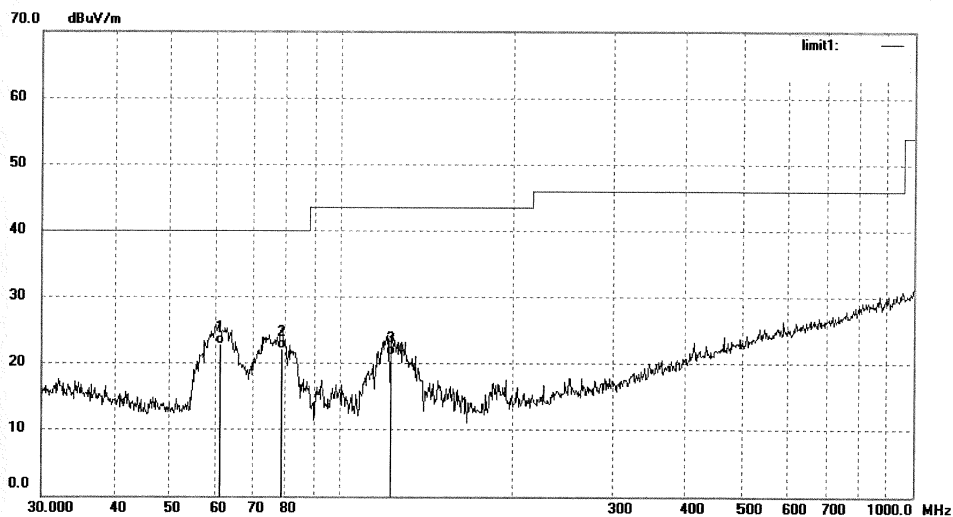
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	61.1315	37.16	-14.32	22.84	40.00	-17.16	QP			
2	78.6888	38.74	-16.53	22.21	40.00	-17.79	QP			
3	122.4039	34.63	-13.33	21.30	43.50	-22.20	QP			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2486

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

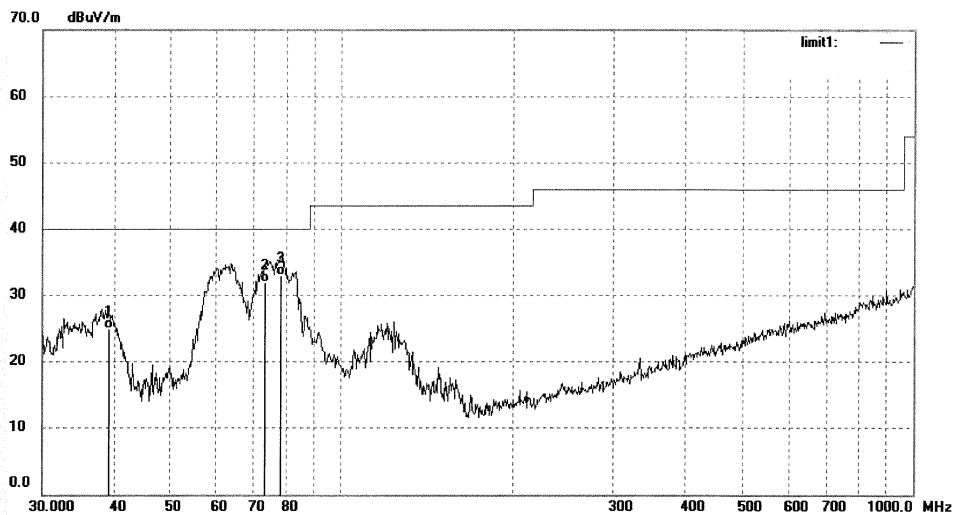
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	39.0245	36.33	-11.32	25.01	40.00	-14.99	QP			
2	73.3593	48.45	-16.51	31.94	40.00	-8.06	QP			
3	78.4133	49.49	-16.55	32.94	40.00	-7.06	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGW2017 #2488

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

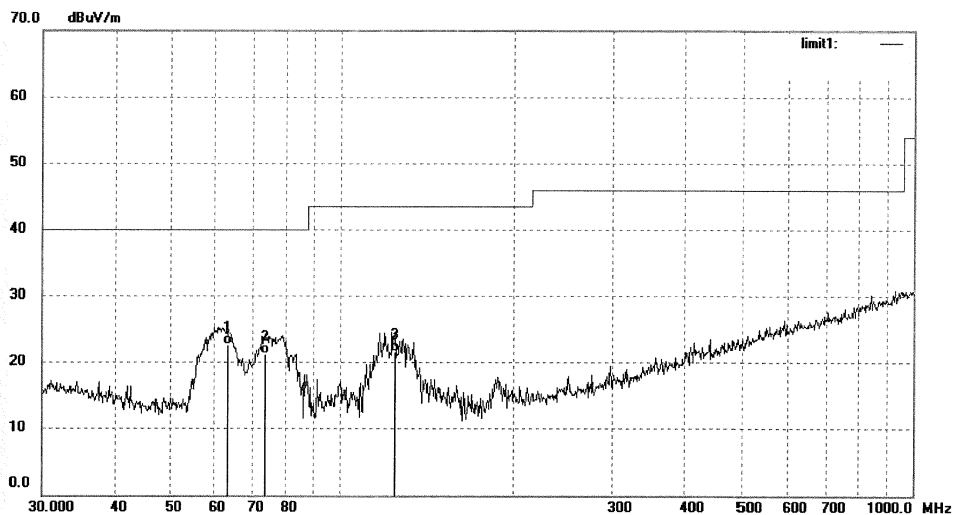
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	63.3132	37.74	-15.10	22.64	40.00	-17.36	QP			
2	73.8756	37.87	-16.56	21.31	40.00	-18.69	QP			
3	124.1329	35.20	-13.54	21.66	43.50	-21.84	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGW2017 #2489

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

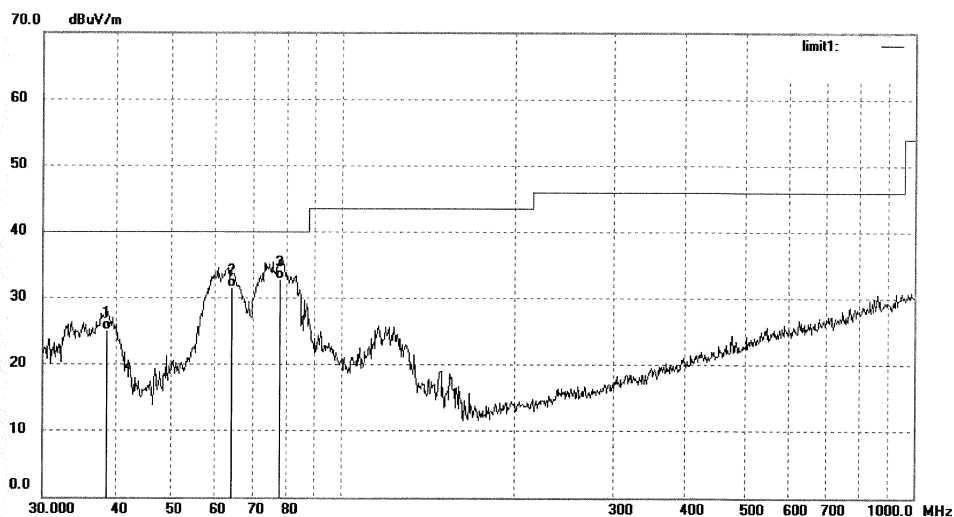
Date: 17/05/31/

Time:

Engineer Signature: WADE

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	38.7518	36.29	-11.25	25.04	40.00	-14.96	QP			
2	63.9827	46.98	-15.33	31.65	40.00	-8.35	QP			
3	78.1389	49.35	-16.56	32.79	40.00	-7.21	QP			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2416

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

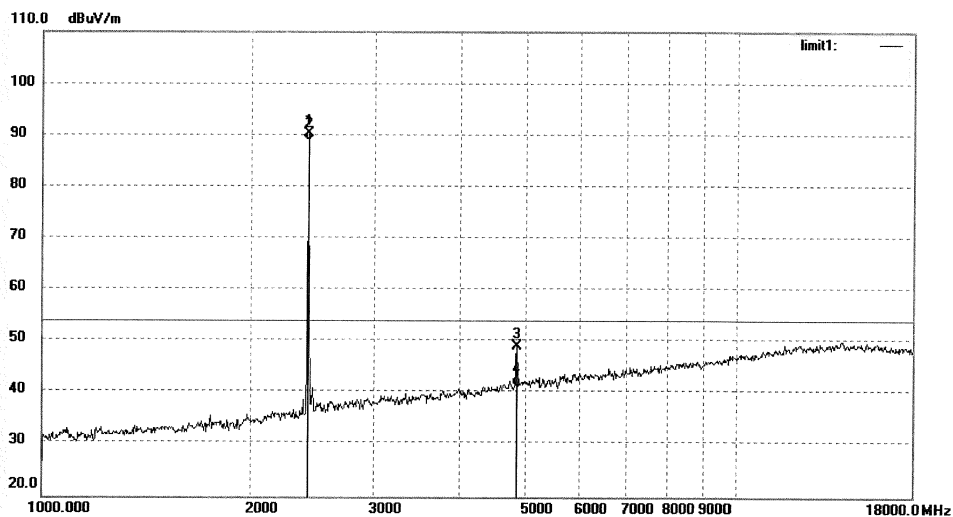
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	91.84	-1.52	90.32	114.00	-23.68	peak			
2	2422.999	90.54	-1.52	89.02	94.00	-4.98	AVG			
3	4846.001	43.81	5.28	49.09	74.00	-24.91	peak			
4	4846.001	36.19	5.28	41.47	54.00	-12.53	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2417

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

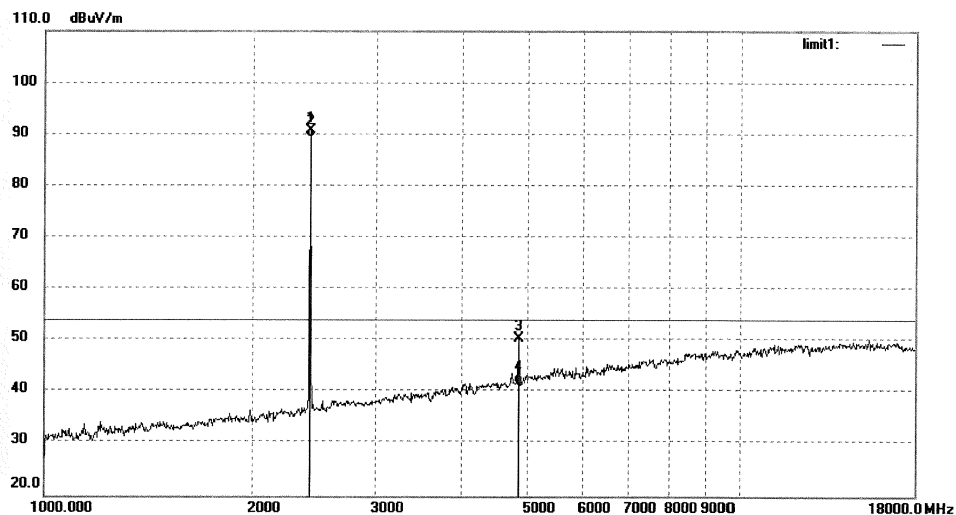
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.18	-1.52	90.66	114.00	-23.34	peak			
2	2422.999	90.88	-1.52	89.36	94.00	-4.64	AVG			
3	4843.997	45.16	5.28	50.44	74.00	-23.56	peak			
4	4843.997	36.36	5.28	41.64	54.00	-12.36	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2420

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

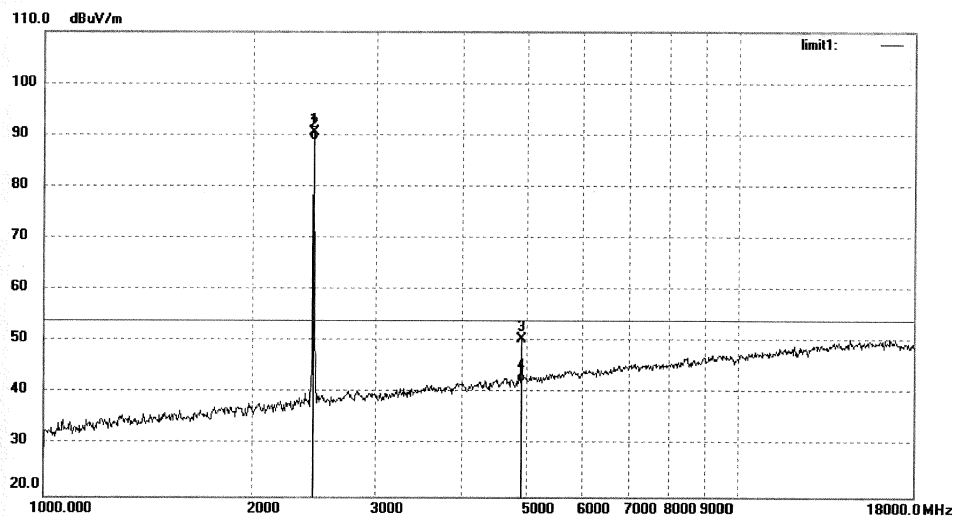
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	91.92	-1.42	90.50	114.00	-23.50	peak			
2	2448.393	90.42	-1.42	89.00	94.00	-5.00	AVG			
3	4896.786	44.70	5.74	50.44	74.00	-23.56	peak			
4	4896.786	36.40	5.74	42.14	54.00	-11.86	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2421

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

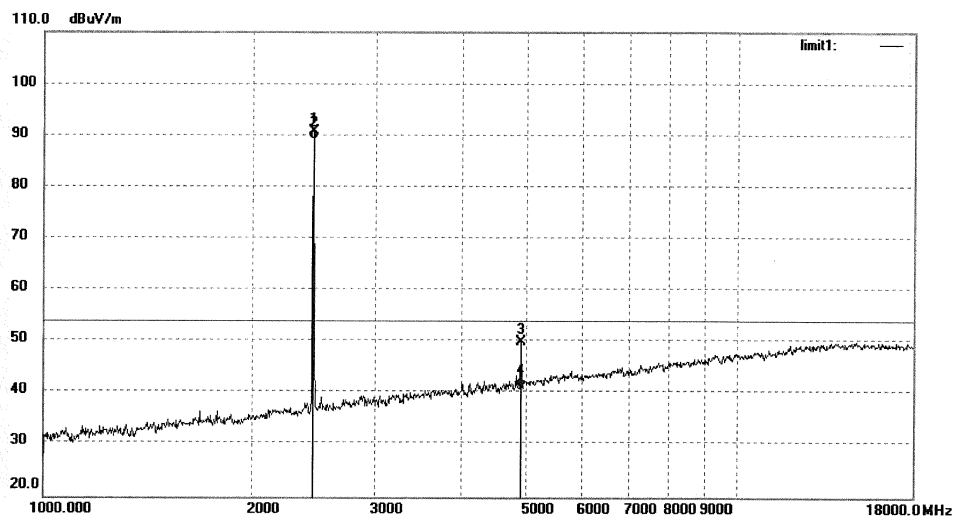
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.20	-1.42	90.78	114.00	-23.22	peak			
2	2448.393	90.70	-1.42	89.28	94.00	-4.72	AVG			
3	4896.794	44.37	5.74	50.11	74.00	-23.89	peak			
4	4896.794	35.50	5.74	41.24	54.00	-12.76	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2423

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

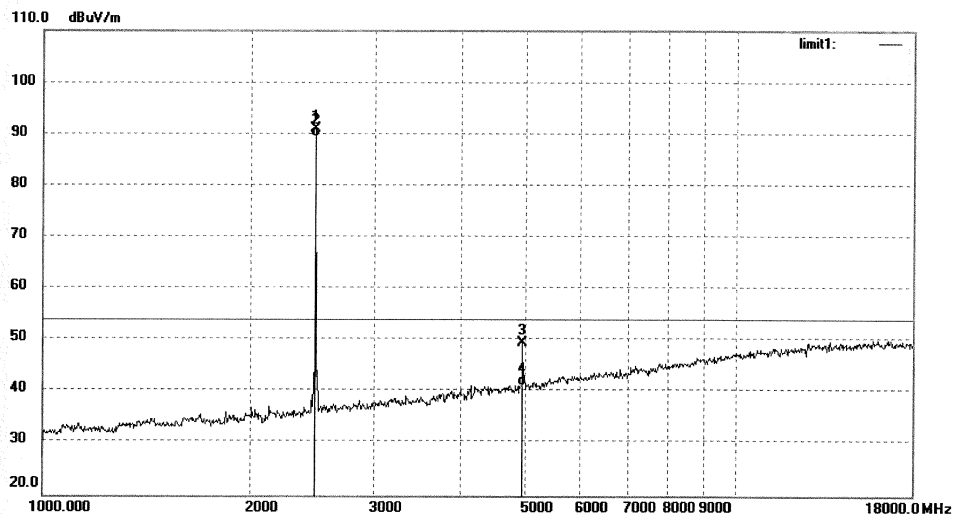
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.33	-1.41	90.92	114.00	-23.08	peak			
2	2473.987	90.83	-1.41	89.42	94.00	-4.58	AVG			
3	4948.012	43.55	6.03	49.58	74.00	-24.42	peak			
4	4948.012	35.21	6.03	41.24	54.00	-12.76	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2422

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

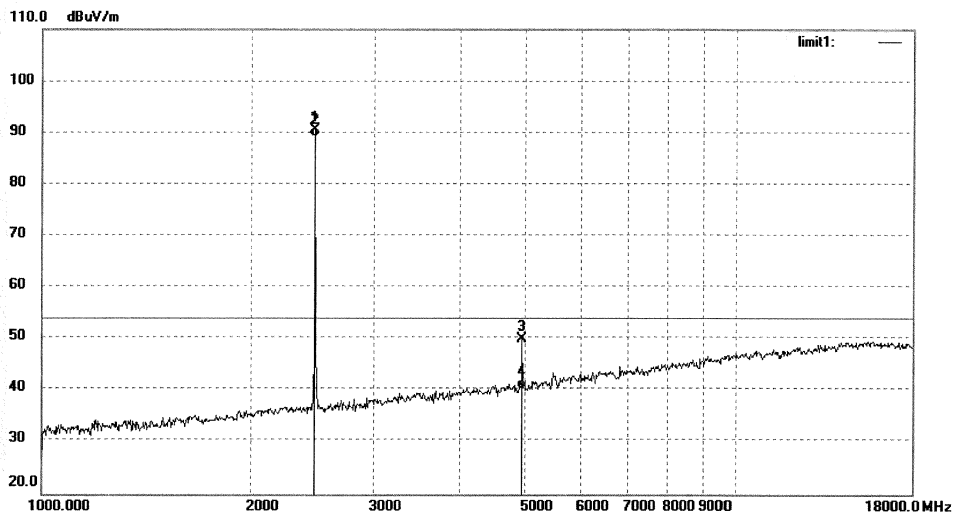
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	92.04	-1.41	90.63	114.00	-23.37	peak			
2	2473.987	90.54	-1.41	89.13	94.00	-4.87	AVG			
3	4947.990	43.93	6.03	49.96	74.00	-24.04	peak			
4	4947.990	34.31	6.03	40.34	54.00	-13.66	AVG			

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Job No.: LGW2017 #2427

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

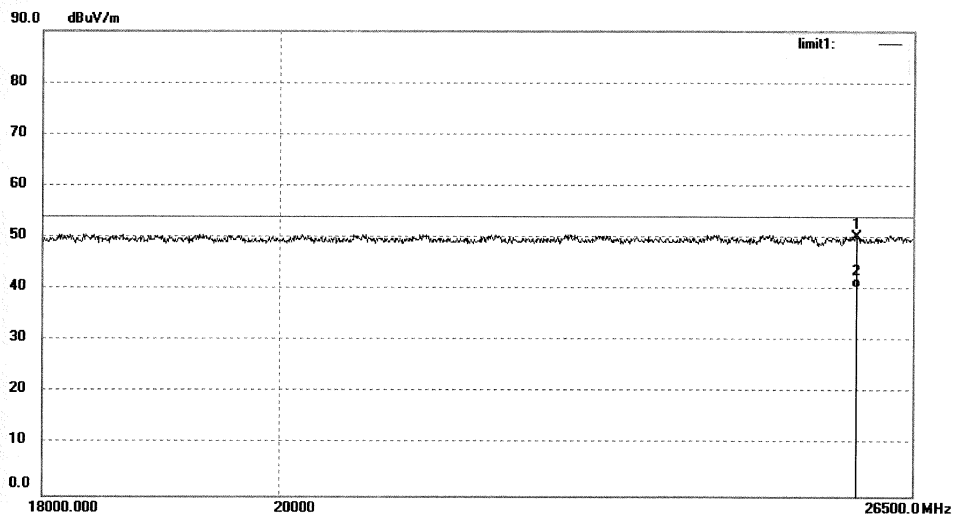
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	25862.086	10.18	40.18	50.36	74.00	-23.64	peak			
2	25862.086	0.17	40.18	40.35	54.00	-13.65	AVG			

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Job No.: LGW2017 #2426

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

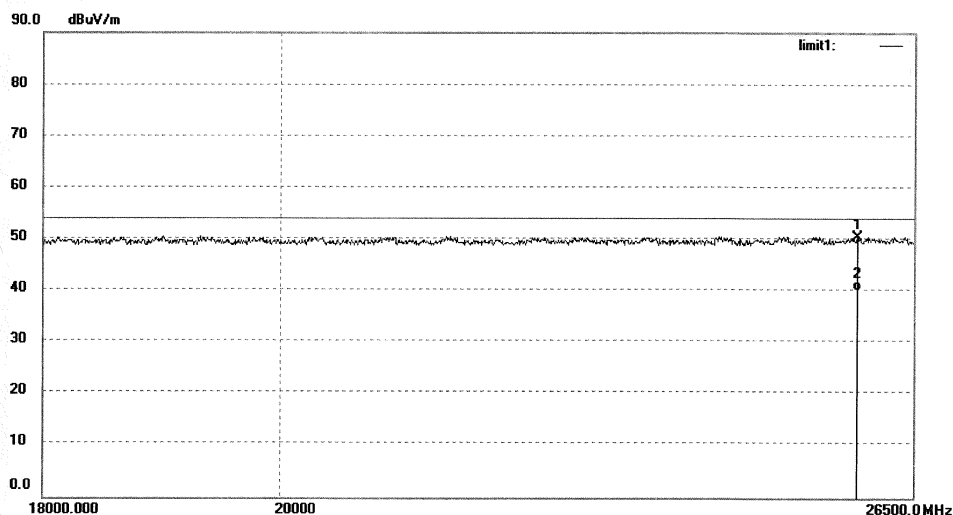
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	25852.085	9.48	41.00	50.48	74.00	-23.52	peak			
2	25852.085	-0.79	41.00	40.21	54.00	-13.79	AVG			

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Job No.: LGW2017 #2428

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

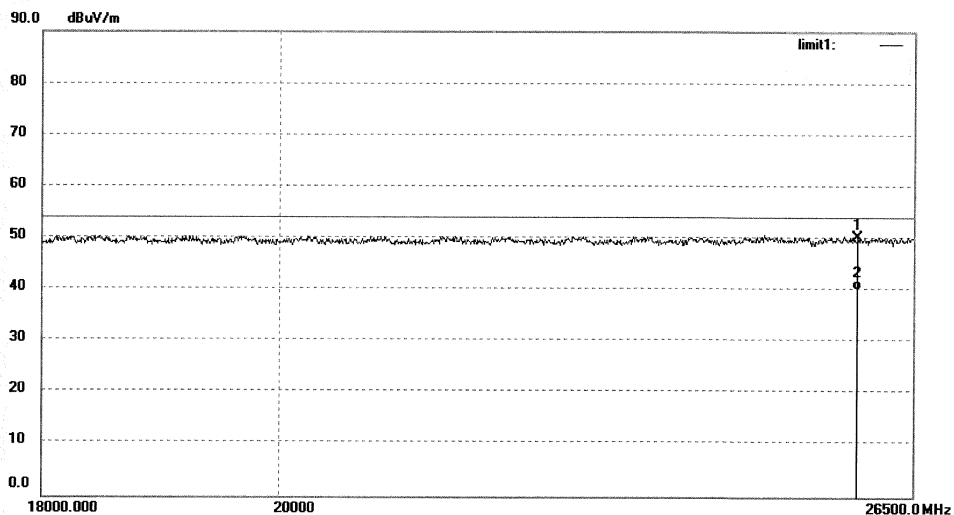
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	25862.086	10.01	40.18	50.19	74.00	-23.81	peak			
2	25862.086	0.06	40.18	40.24	54.00	-13.76	AVG			


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Site: 2# Chamber

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Job No.: LGW2017 #2429

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2448.393768MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

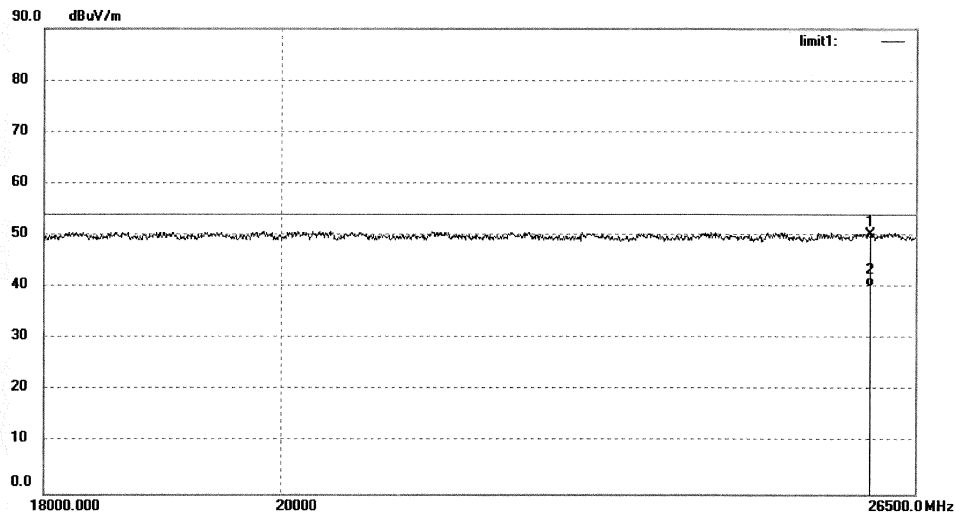
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	25982.398	9.42	40.98	50.40	74.00	-23.60	peak			
2	25982.398	-0.74	40.98	40.24	54.00	-13.76	AVG			


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Job No.: LGW2017 #2431

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

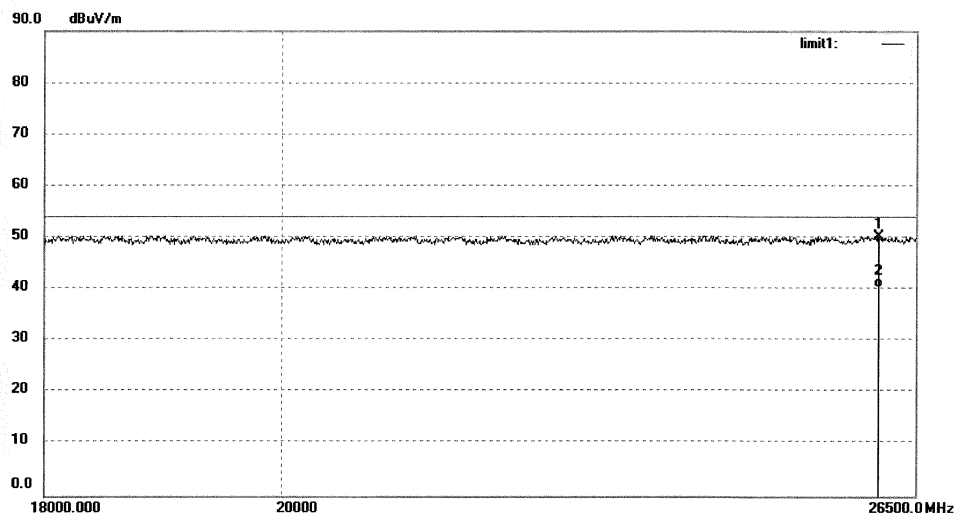
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	26062.917	10.03	40.28	50.31	74.00	-23.69	peak			
2	26062.917	0.13	40.28	40.41	54.00	-13.59	AVG			

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Job No.: LGW2017 #2430

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

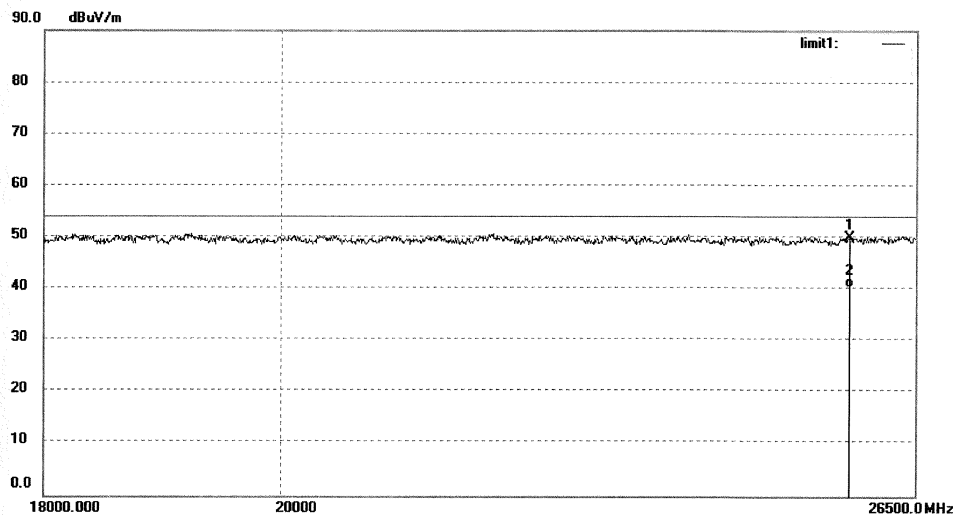
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	25732.376	9.00	41.02	50.02	74.00	-23.98	peak			
2	25732.376	-0.61	41.02	40.41	54.00	-13.59	AVG			

Test Plot of Frequency Band Edge


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Fax: +86-0755-26503396

Job No.: LGW2017 #2419

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

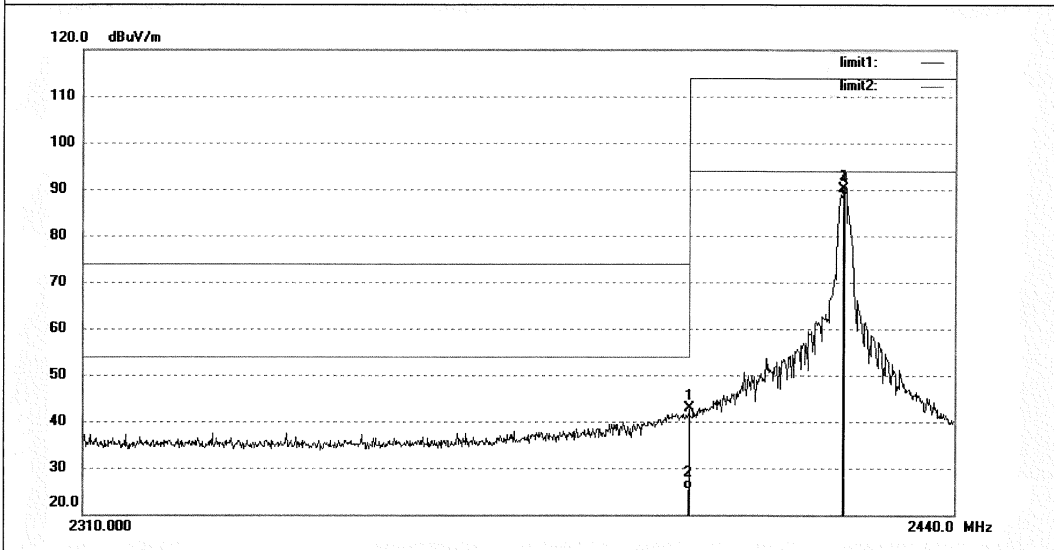
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	2400.000	44.43	-1.62	42.81	74.00	-31.19	peak			
2	2400.000	27.03	-1.62	25.41	54.00	-28.59	AVG			
3	2422.999	91.61	-1.52	90.09	114.00	-23.91	peak			
4	2422.999	90.31	-1.52	88.79	94.00	-5.21	AVG			


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Fax:+86-0755-26503396

Job No.: LGW2017 #2418

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2422.999969MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

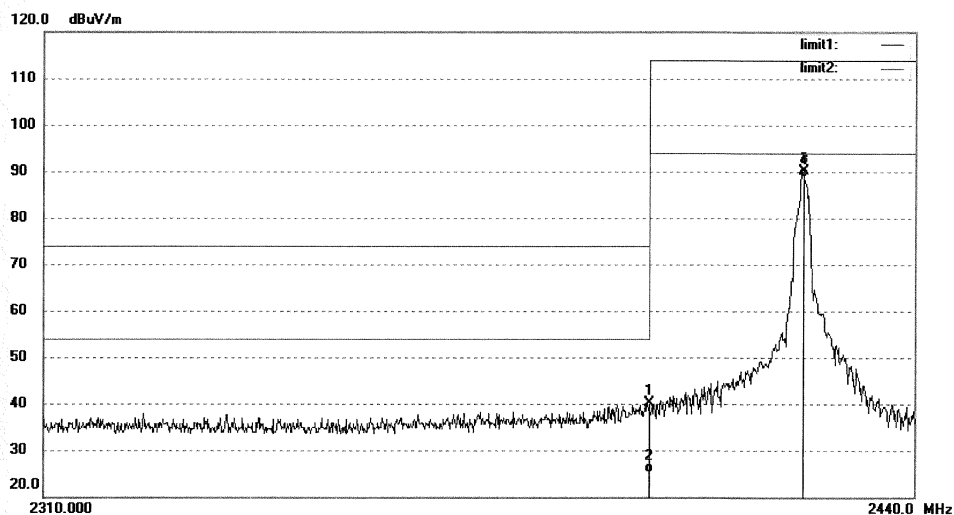
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	2400.000	41.78	-1.62	40.16	74.00	-33.84	peak			
2	2400.000	26.83	-1.62	25.21	54.00	-28.79	AVG			
3	2423.009	91.68	-1.52	90.16	114.00	-23.84	peak			
4	2423.009	90.38	-1.52	88.86	94.00	-5.14	AVG			


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Job No.: LGW2017 #2424

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

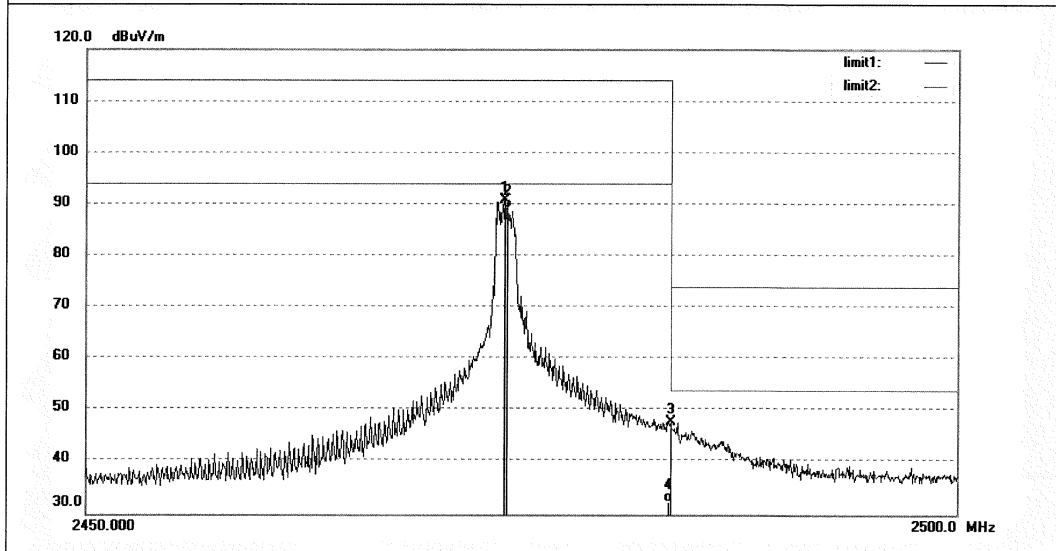
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	2473.998	92.20	-1.41	90.79	114.00	-23.21	peak			
2	2473.998	90.70	-1.41	89.29	94.00	-4.71	AVG			
3	2483.500	49.21	-1.40	47.81	74.00	-26.19	peak			
4	2483.500	33.85	-1.40	32.45	54.00	-21.55	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGW2017 #2425

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: TX 2473.987518MHz

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

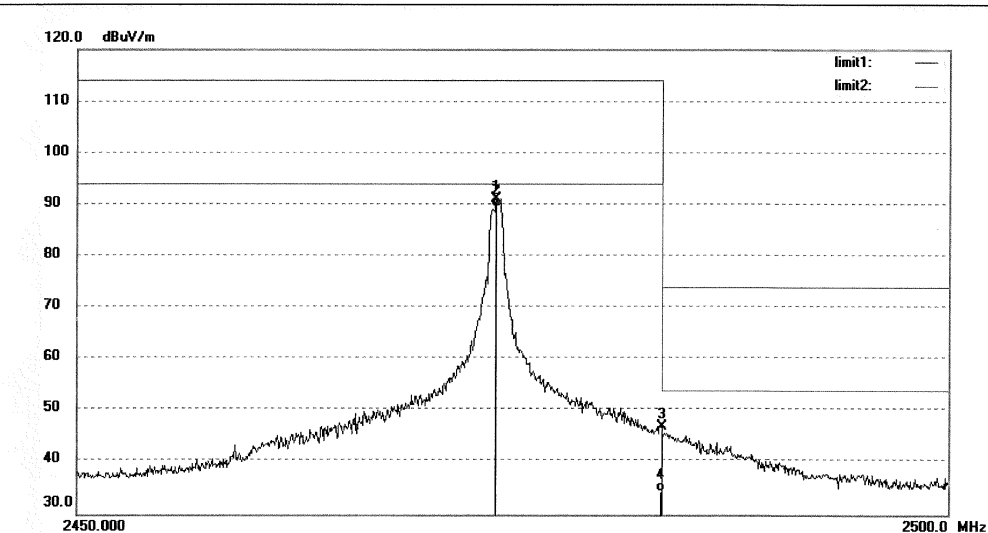
Date: 17/05/27/

Time:

Engineer Signature: WADE

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	2473.980	92.45	-1.41	91.04	114.00	-22.96	peak			
2	2473.980	90.95	-1.41	89.54	94.00	-4.46	AVG			
3	2483.500	48.49	-1.40	47.09	74.00	-26.91	peak			
4	2483.500	35.87	-1.40	34.47	54.00	-19.53	AVG			

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

Date of testing	:	2017-03-29
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
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

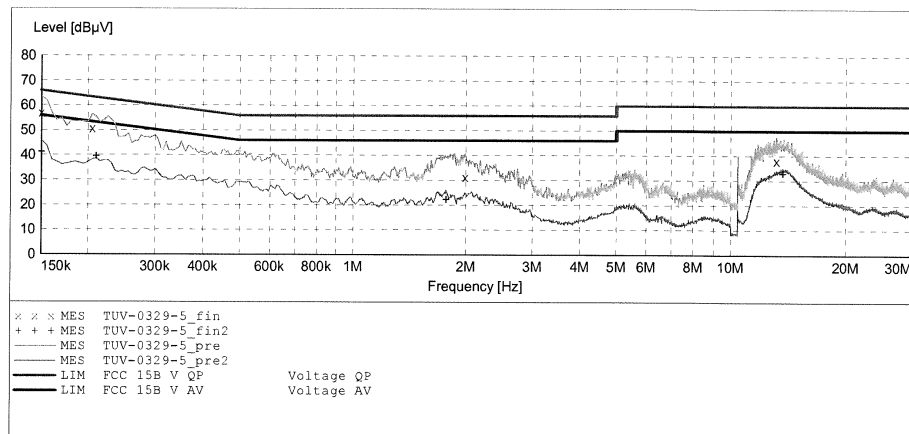
For details refer to following test plot.

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

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average
 Average


MEASUREMENT RESULT: "TUV-0329-5_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	56.90	10.5	66	9.1	QP	L1	GND
0.205000	50.70	10.5	63	12.7	QP	L1	GND
1.990000	31.20	11.0	56	24.8	QP	L1	GND
13.180000	38.00	11.3	60	22.0	QP	L1	GND

MEASUREMENT RESULT: "TUV-0329-5_fin2"

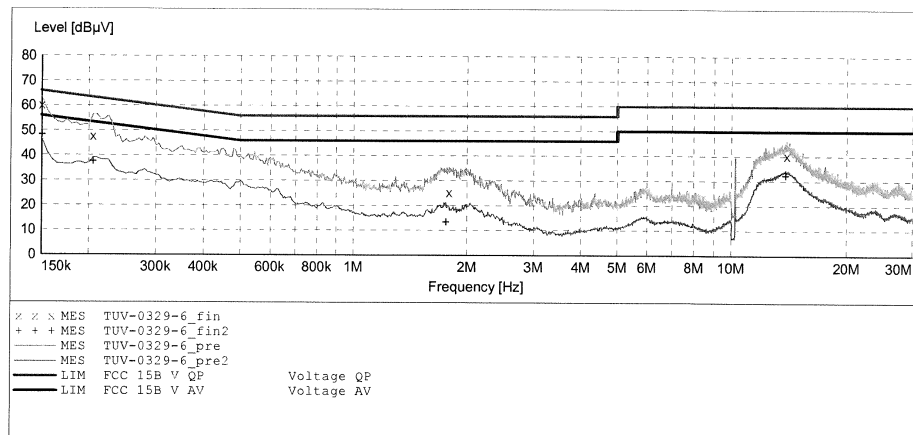
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	41.10	10.5	56	14.9	AV	L1	GND
0.210000	39.40	10.5	53	13.8	AV	L1	GND
1.770000	22.20	11.0	46	23.8	AV	L1	GND
13.675000	32.90	11.3	50	17.1	AV	L1	GND

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

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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-0329-6_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	60.20	10.5	66	5.8	QP	N	GND
0.205000	47.70	10.5	63	15.7	QP	N	GND
1.795000	25.30	11.0	56	30.7	QP	N	GND
13.930000	40.30	11.4	60	19.7	QP	N	GND

MEASUREMENT RESULT: "TUV-0329-6_fin2"

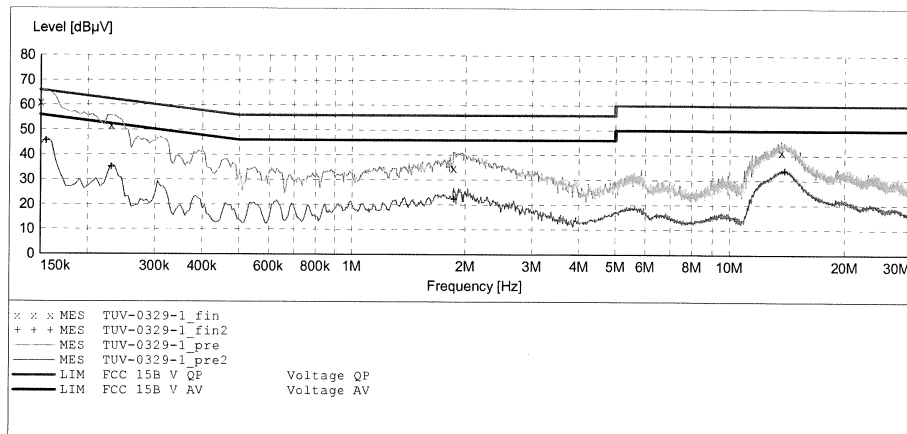
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	48.20	10.5	56	7.8	AV	N	GND
0.205000	37.50	10.5	53	15.9	AV	N	GND
1.760000	13.30	11.0	46	32.7	AV	N	GND
13.825000	32.30	11.4	50	17.7	AV	N	GND

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

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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-0329-1_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	61.10	10.5	66	4.9	QP	L1	GND
0.230000	51.80	10.6	62	10.6	QP	L1	GND
1.860000	34.80	11.0	56	21.2	QP	L1	GND
13.615000	41.50	11.3	60	18.5	QP	L1	GND

MEASUREMENT RESULT: "TUV-0329-1_fin2"

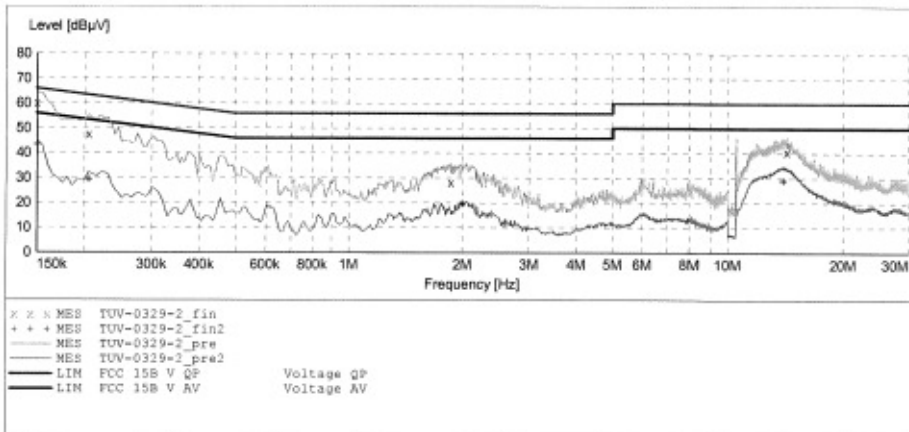
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	45.50	10.5	56	10.2	AV	L1	GND
0.230000	35.00	10.6	52	17.4	AV	L1	GND
1.865000	22.30	11.0	46	23.7	AV	L1	GND
13.870000	33.90	11.4	50	16.1	AV	L1	GND

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

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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 QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average
 Average


MEASUREMENT RESULT: "TUV-0329-2_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	60.10	10.5	66	5.9	QP	N	GND
0.205000	47.50	10.5	63	15.9	QP	N	GND
1.865000	28.20	11.0	56	27.8	QP	N	GND
14.185000	40.70	11.4	60	19.3	QP	N	GND

MEASUREMENT RESULT: "TUV-0329-2_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.30	10.5	56	12.7	AV	N	GND
0.205000	29.30	10.5	53	24.1	AV	N	GND
2.000000	19.70	11.0	46	26.3	AV	N	GND
13.885000	29.00	11.4	50	21.0	AV	N	GND

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5.1.6 Radiated Emission

RESULT:**Pass**

Date of testing	:	2017-06-02
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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Fax:+86-0755-26503396

Job No.: LGW2017 #2523

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: On

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

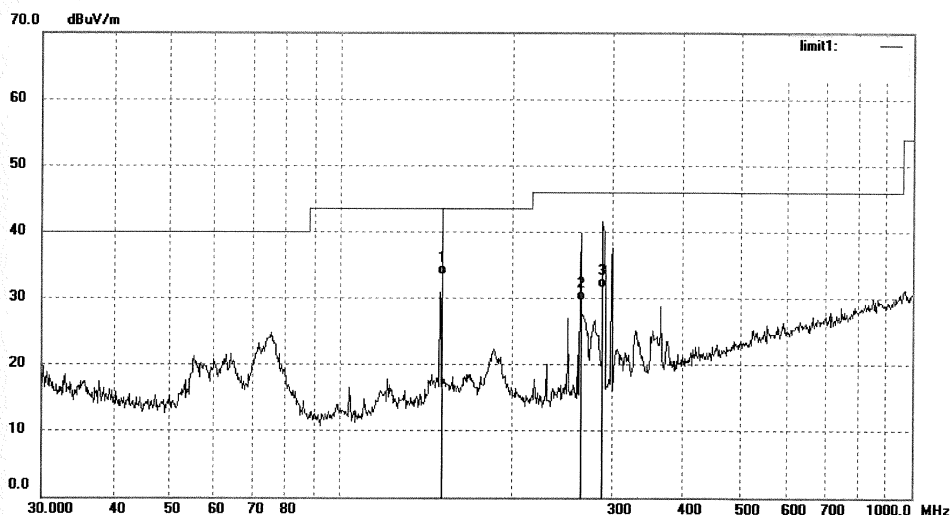
Date: 17/06/02/

Time:

Engineer Signature: WADE

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	150.5378	48.57	-15.04	33.53	43.50	-9.97	QP			
2	263.8190	39.99	-10.26	29.73	46.00	-16.27	QP			
3	287.9904	40.91	-9.34	31.57	46.00	-14.43	QP			


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Job No.: LGW2017 #2522

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: On

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

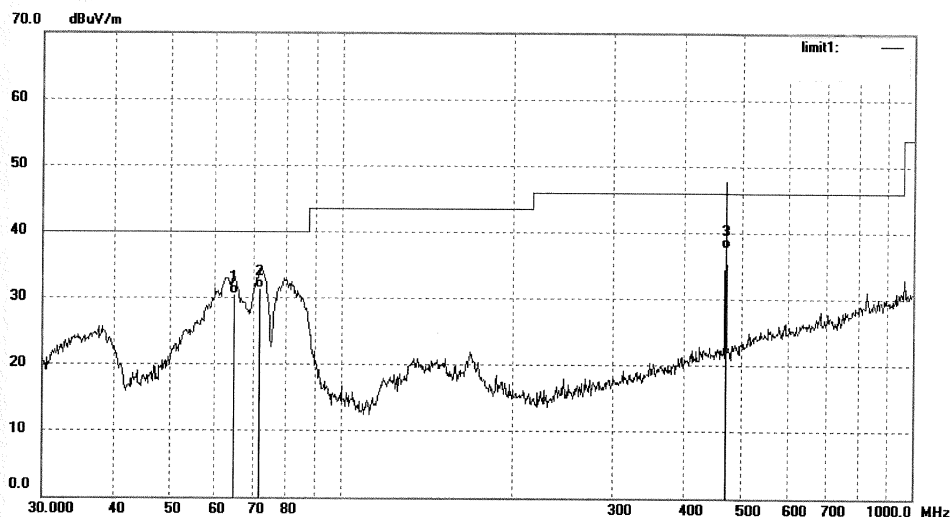
Date: 17/06/02/

Time:

Engineer Signature: WADE

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	64.6594	46.12	-15.57	30.55	40.00	-9.45	QP			
2	71.8319	47.75	-16.30	31.45	40.00	-8.55	QP			
3	473.8346	42.61	-4.97	37.64	46.00	-8.36	QP			


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Job No.: LGW2017 #2524

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: On

Model: MC251

Manufacturer: Limoss

Polarization: Horizontal

Power Source: AC 120V/60Hz

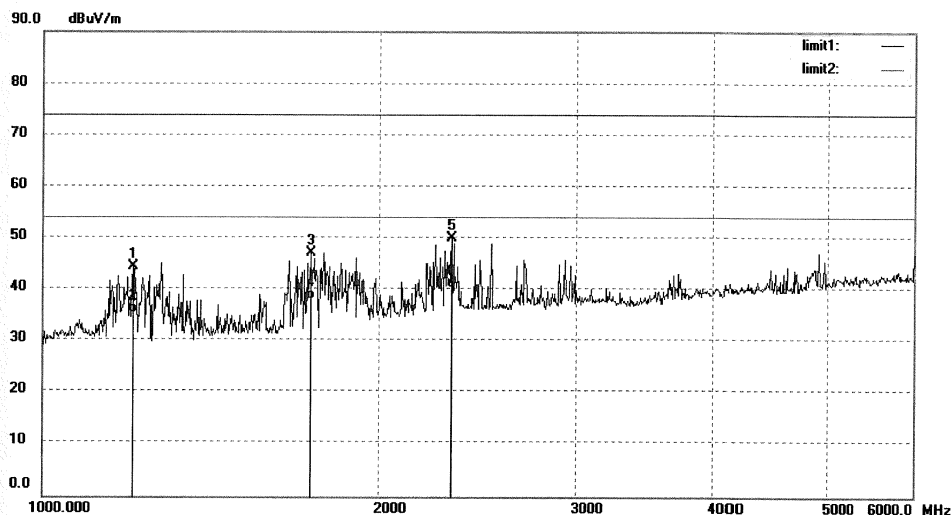
Date: 17/06/02/

Time:

Engineer Signature: WADE

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	1202.678	53.36	-8.85	44.51	74.00	-29.49	peak			
2	1202.678	44.40	-8.85	35.55	54.00	-18.45	AVG			
3	1736.483	53.31	-6.08	47.23	74.00	-26.77	peak			
4	1736.483	44.20	-6.08	38.12	54.00	-15.88	AVG			
5	2321.299	52.01	-2.04	49.97	74.00	-24.03	peak			
6	2321.299	42.48	-2.04	40.44	54.00	-13.56	AVG			


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Job No.: LGW2017 #2525

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Wireless Receiver(Master)

Mode: On

Model: MC251

Manufacturer: Limoss

Polarization: Vertical

Power Source: AC 120V/60Hz

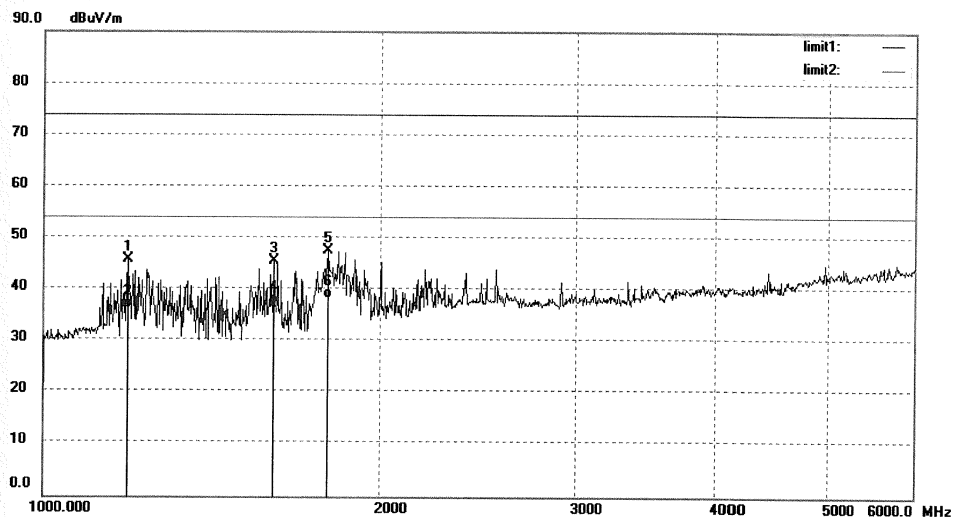
Date: 17/06/02/

Time:

Engineer Signature: WADE

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	1187.688	54.67	-8.82	45.85	74.00	-28.15	peak			
2	1187.688	45.06	-8.82	36.24	54.00	-17.76	AVG			
3	1607.719	52.99	-7.34	45.65	74.00	-28.35	peak			
4	1607.719	44.49	-7.34	37.15	54.00	-16.85	AVG			
5	1796.617	53.02	-5.50	47.52	74.00	-26.48	peak			
6	1796.617	43.91	-5.50	38.41	54.00	-15.59	AVG			

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