

Prüfbericht-Nr.: <i>Test Report No.:</i>	50090490 001	Auftrags-Nr.: <i>Order No.:</i>	164061391	Seite 1 von 60 <i>Page 1 of 60</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.04.2016	
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>	HC315			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 FCC KDB Publication 447498 D01 v06 RSS-210 Issue 9 August 2016 RSS-102 Issue 5 March 2015		CFR47 FCC Part 15: Subpart C Section 15.209 RSS-Gen Issue 4 November 2014	
Wareneingangsdatum: <i>Date of receipt:</i>	10.06.2016			
Prüfmuster-Nr.: <i>Test sample No.:</i>	1601082			
Prüfzeitraum: <i>Testing period:</i>	23.09.2016 - 24.09.2016			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
12.07.2013 Andy Yan/Project Manager		12.07.2013 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>
Sonstiges / Other:		FCC ID: 2AH9H-HC315 IC: 21543-HC315		
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>				

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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

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

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

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

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

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

3. General Product Information

3.1 Product Function and Intended Use

The EUT is handset, it operates at 2.4GHz ISM band.
All the items were tested according to RSS-210 Issue 8, and the testing items and results also comply with the RSS-210 Issue 9 after engineering judgement.
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	HC315
FCC ID	2AH9H-HC215
IC	21543-HC315
HVIN	HC315
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 4.5V (via 3 x 'AA' size battery)
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Transmitting
 - 2. Receiving
- B. 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

None.

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test for below 1GHz

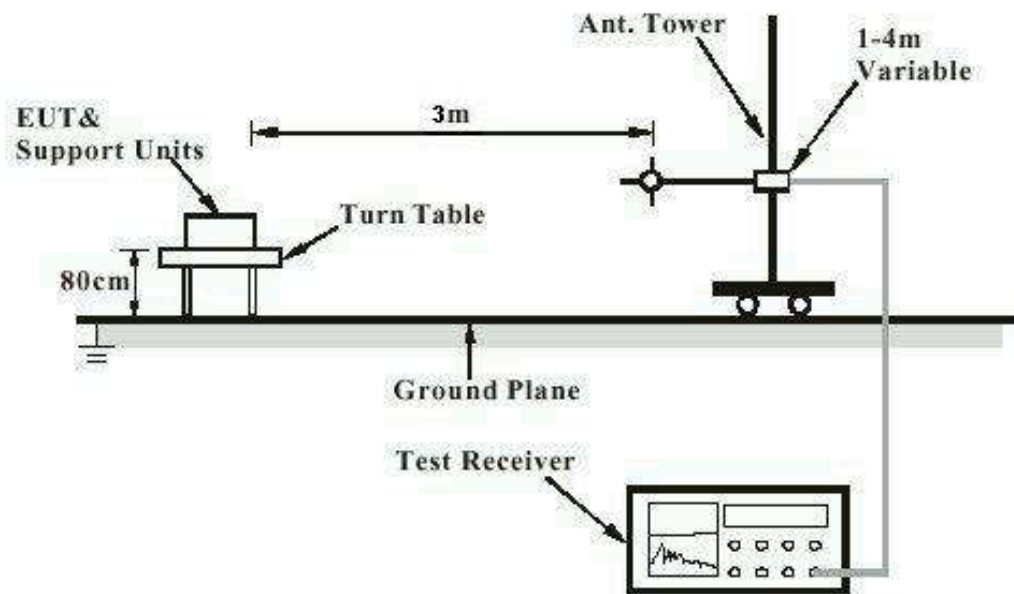


Diagram of Measurement Configuration for Radiation Test for above 1GHz

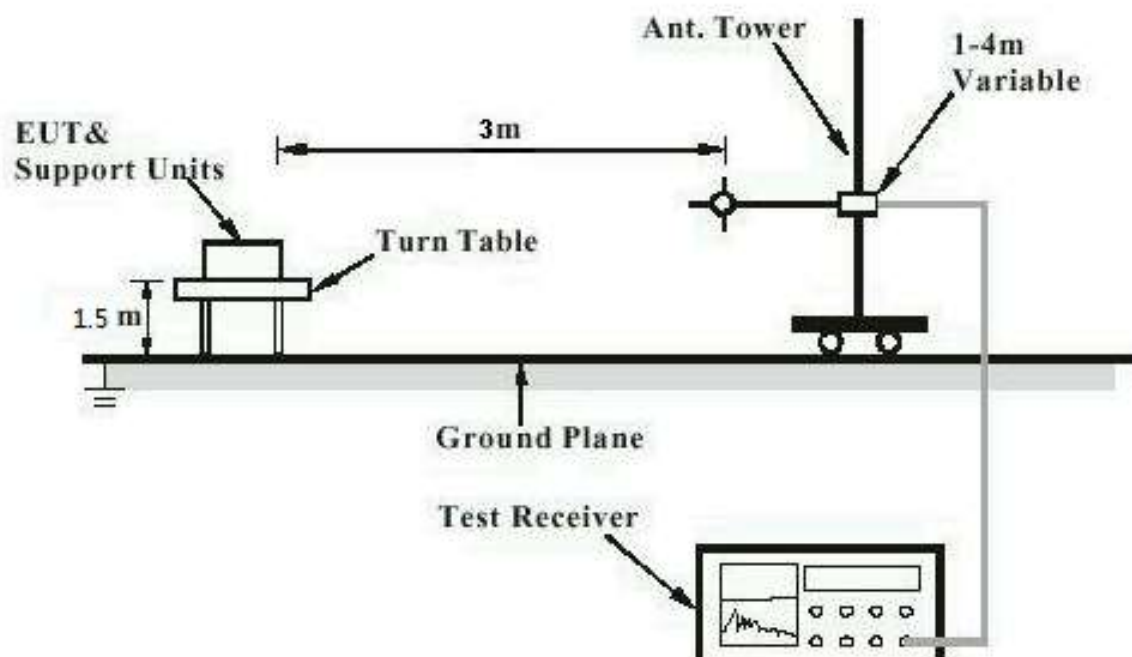


Diagram of Measurement Equipment Configuration for Transmitter Measurement

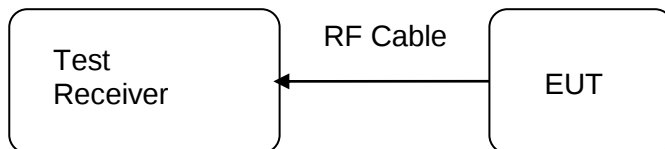
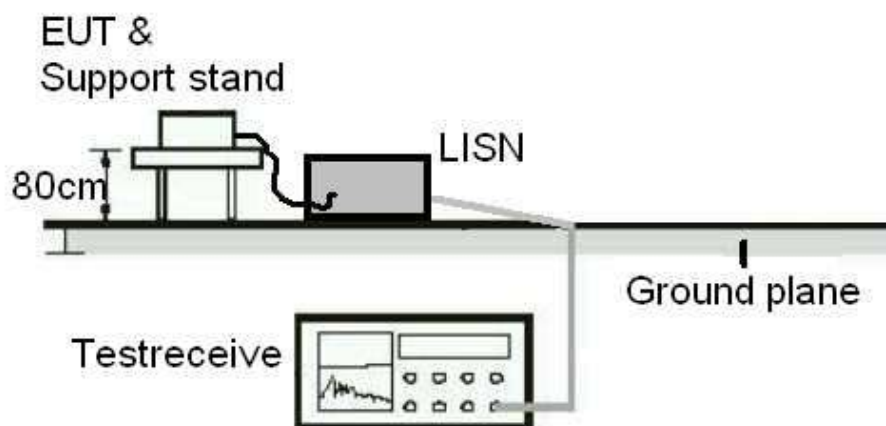


Diagram of Measurement Equipment Configuration for Conduction Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

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

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

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

Date of testing : 2016-09-23
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

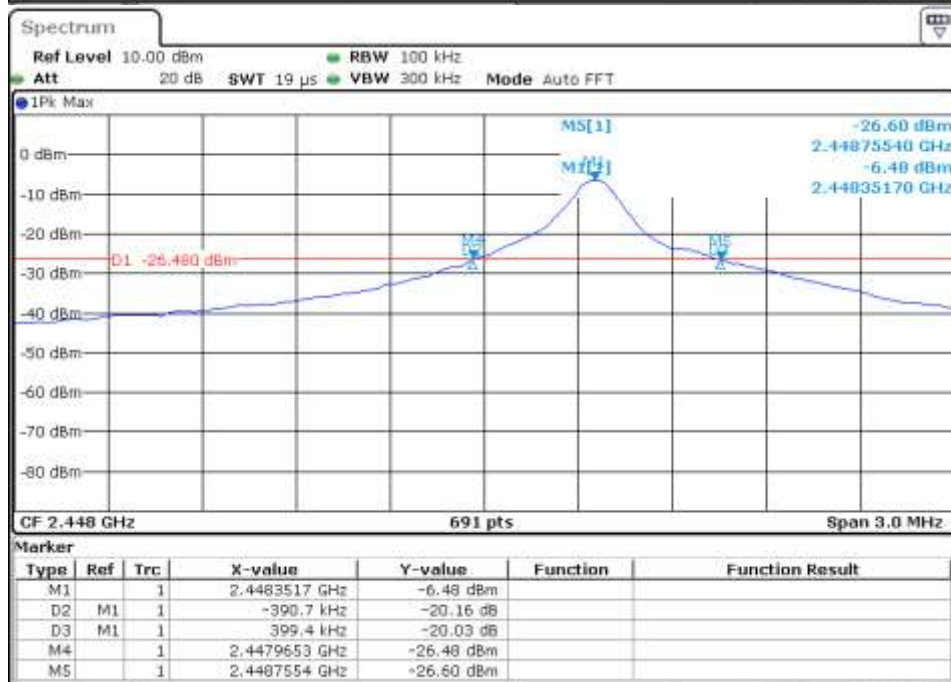
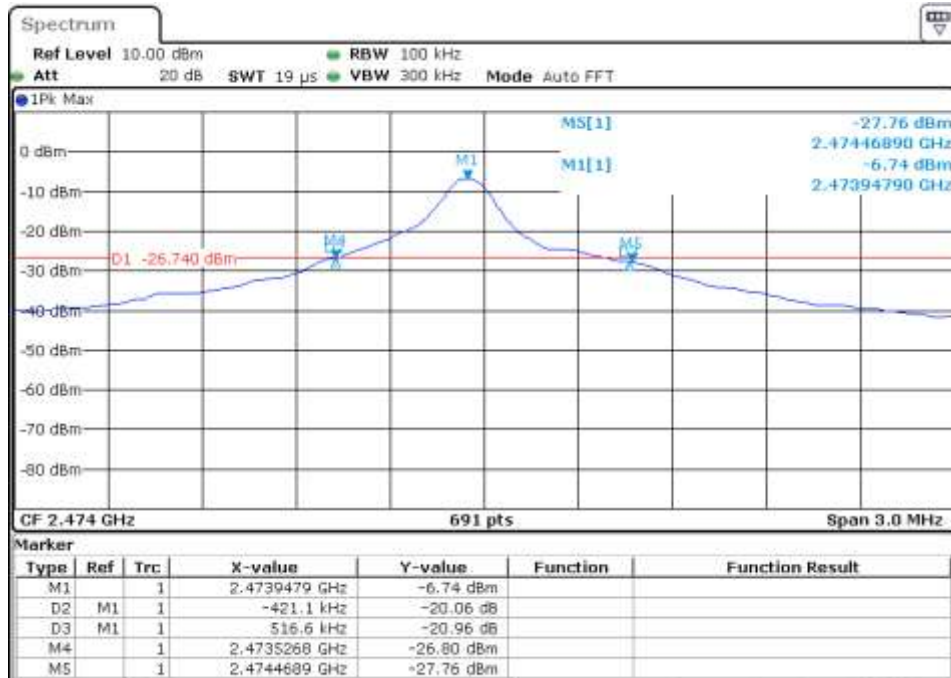
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 21°C
Relative humidity : 60%
Atmospheric pressure : 101kPa

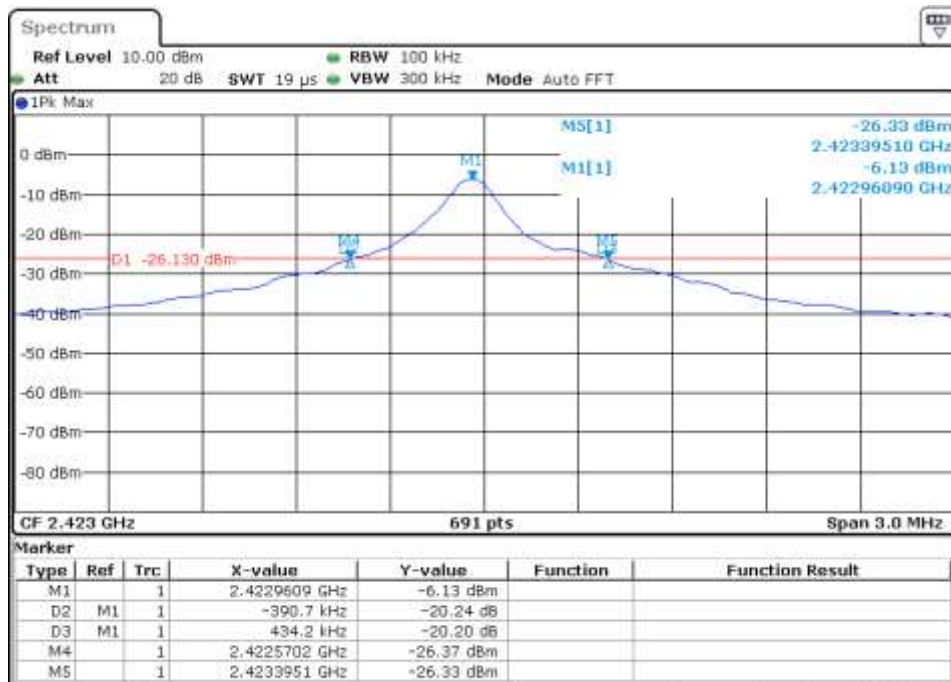
Table 4: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	0.825	1.368
Mid Channel	2448.393	0.790	1.294
High Channel	2473.987	0.938	1.428

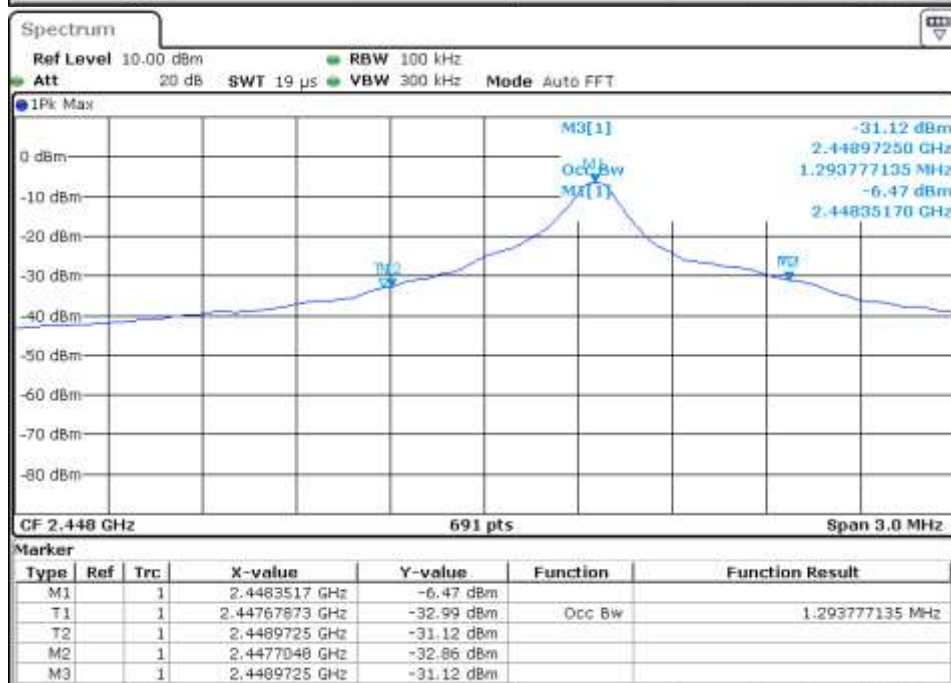
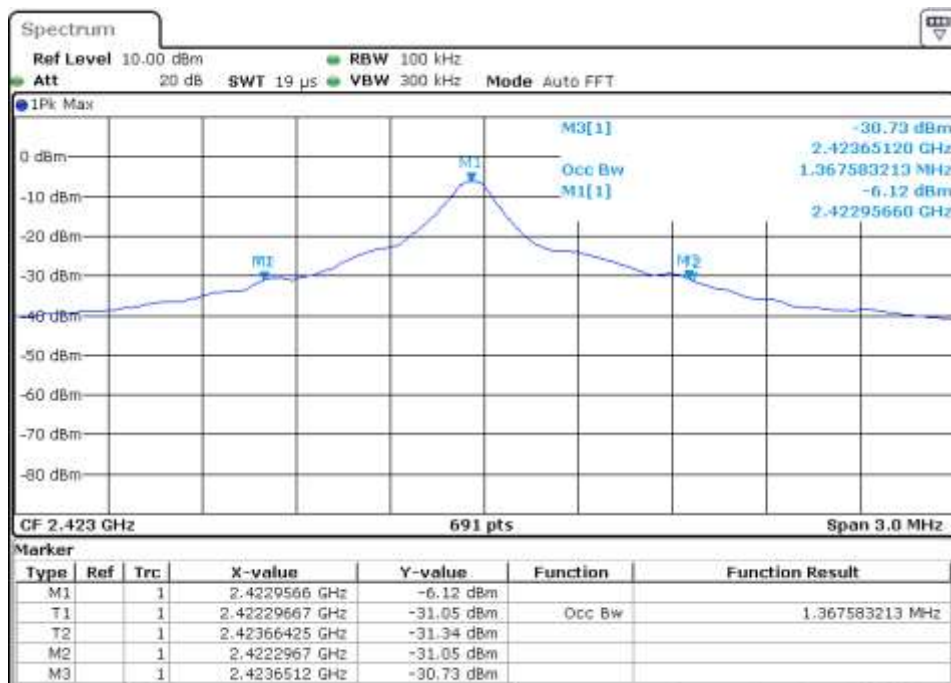
For details refer to following test plot.

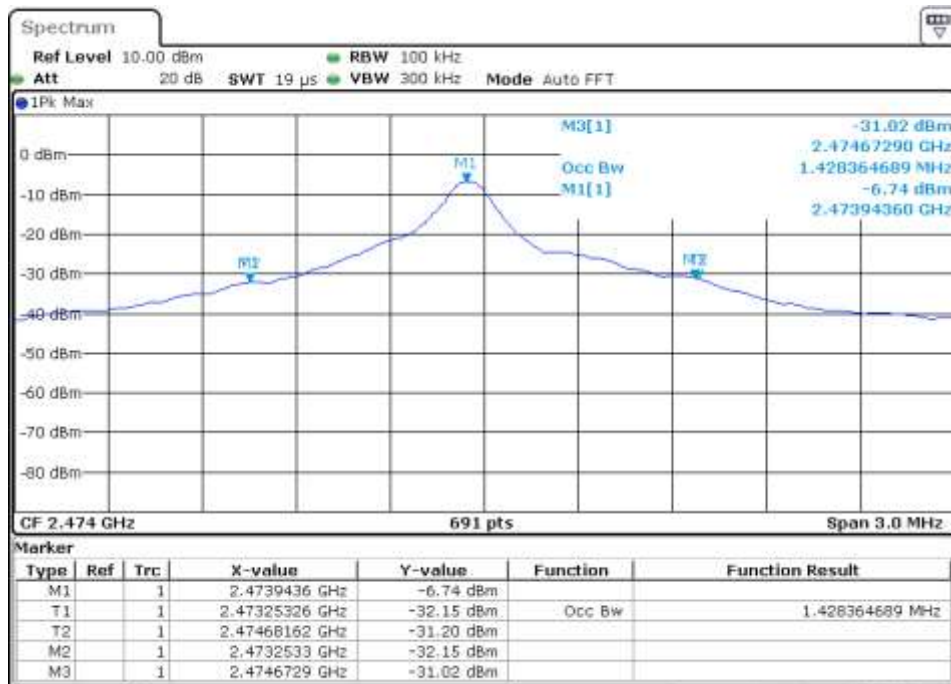
Test Plot of 20dB Bandwidth





Test Plot of 99% Bandwidth






ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2199

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2422.999MHz

Model: HC315

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 4.5V

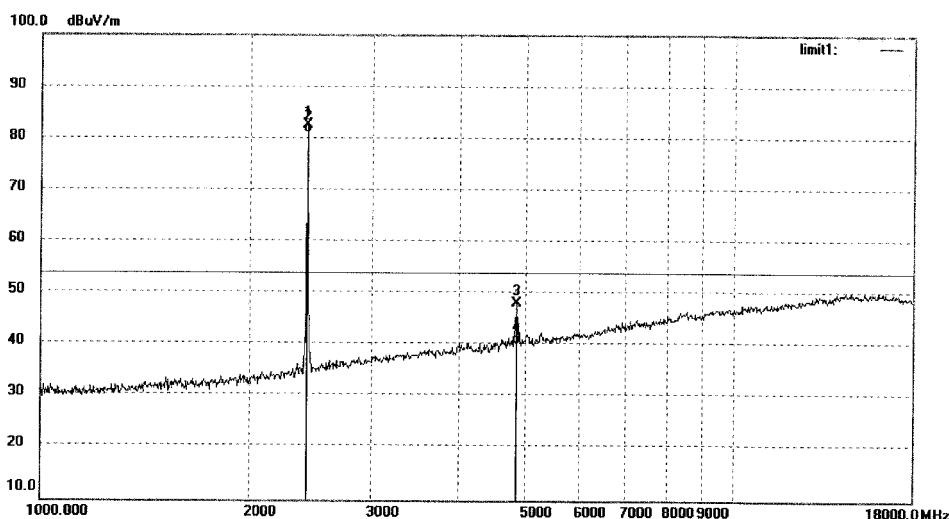
Date: 16/06/24/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	89.97	-7.40	82.57	114.00	-31.43	peak			
2	2422.999	88.47	-7.40	81.07	94.00	-12.93	AVG			
3	4845.977	48.19	-0.06	48.13	74.00	-25.87	peak			
4	4845.977	40.35	-0.06	40.29	54.00	-13.71	AVG			


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Job No.: LGWADE #2198

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2422.999MHz

Model: HC315

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 4.5V

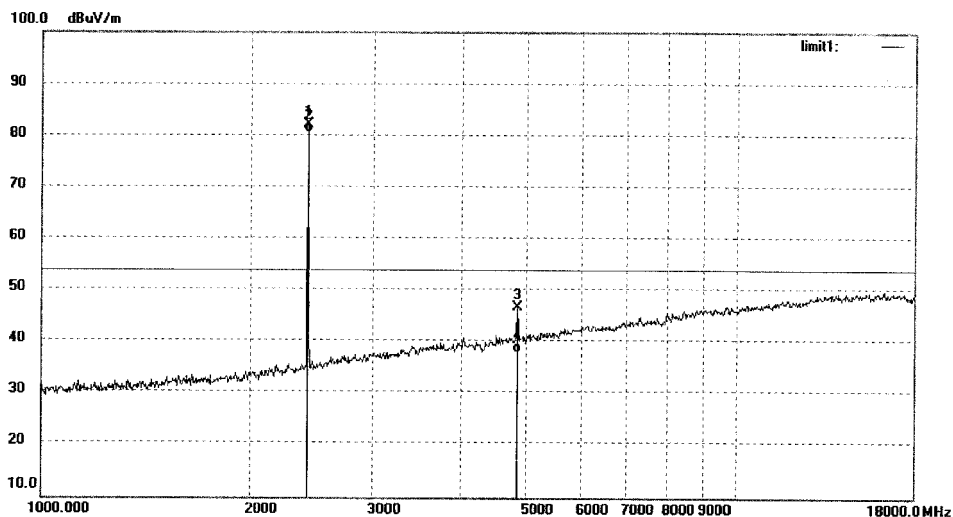
Date: 16/06/24/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	89.51	-7.40	82.11	114.00	-31.89	peak			
2	2422.999	88.01	-7.40	80.61	94.00	-13.39	AVG			
3	4845.983	46.90	-0.06	46.84	74.00	-27.16	peak			
4	4845.983	38.18	-0.06	38.12	54.00	-15.88	AVG			


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Job No.: LGWADE #2200

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2448.393MHz

Model: HC315

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 4.5V

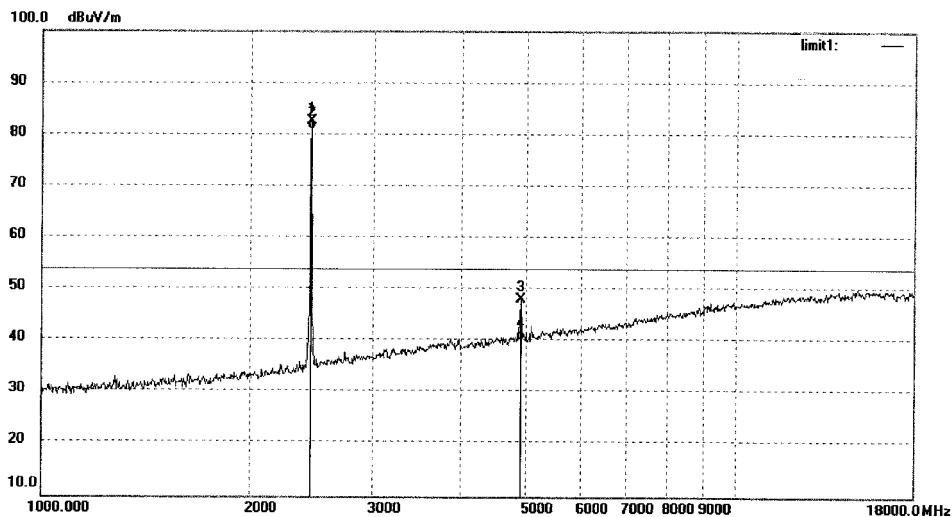
Date: 16/06/24/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	89.94	-7.34	82.60	114.00	-31.40	peak			
2	2448.393	88.34	-7.34	81.00	94.00	-13.00	AVG			
3	4896.790	48.00	0.22	48.22	74.00	-25.78	peak			
4	4896.790	40.13	0.22	40.35	54.00	-13.65	AVG			


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Job No.: LGWADE #2201

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Date: 16/06/24/

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

Time:

EUT: Handset

Engineer Signature: LGWADE

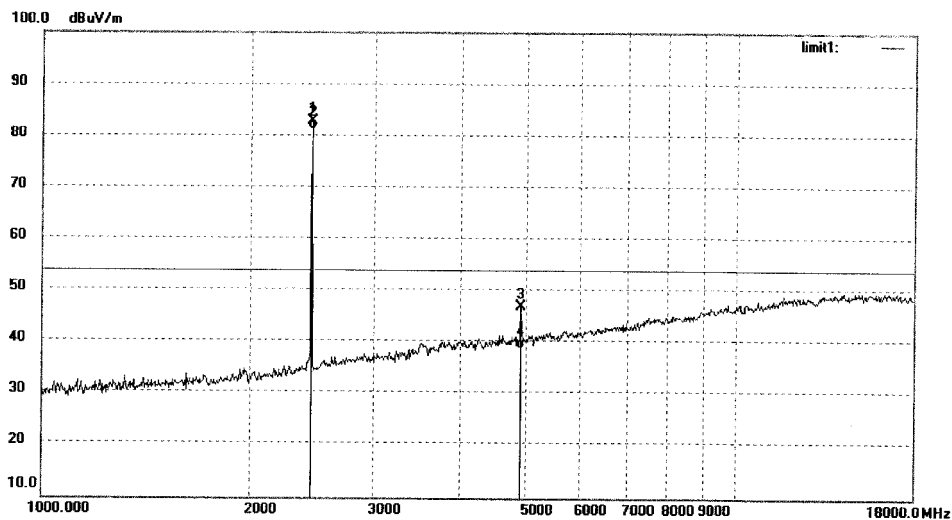
Mode: TX 2448.393MHz

Distance: 3m

Model: HC315

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	90.15	-7.34	82.81	114.00	-31.19	peak			
2	2448.393	88.55	-7.34	81.21	94.00	-12.79	AVG			
3	4896.792	46.75	0.22	46.97	74.00	-27.03	peak			
4	4896.792	38.69	0.22	38.91	54.00	-15.09	AVG			


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Job No.: LGWADE #2203

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Date: 16/06/24/

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

Time:

EUT: Handset

Engineer Signature: LGWADE

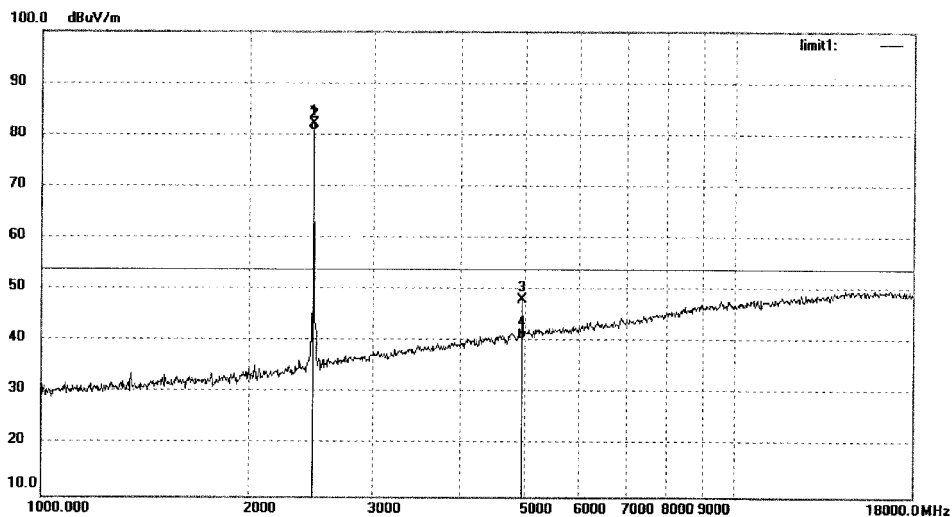
Mode: TX 2473.987MHz

Distance: 3m

Model: HC315

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	89.48	-7.37	82.11	114.00	-31.89	peak			
2	2473.987	88.18	-7.37	80.81	94.00	-13.09	AVG			
3	4947.984	47.77	0.46	48.23	74.00	-25.77	peak			
4	4947.984	40.11	0.46	40.57	54.00	-13.43	AVG			


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Fax:+86-0755-26503396

Job No.: LGWADE #2202

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2473.987MHz

Model: HC315

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 4.5V

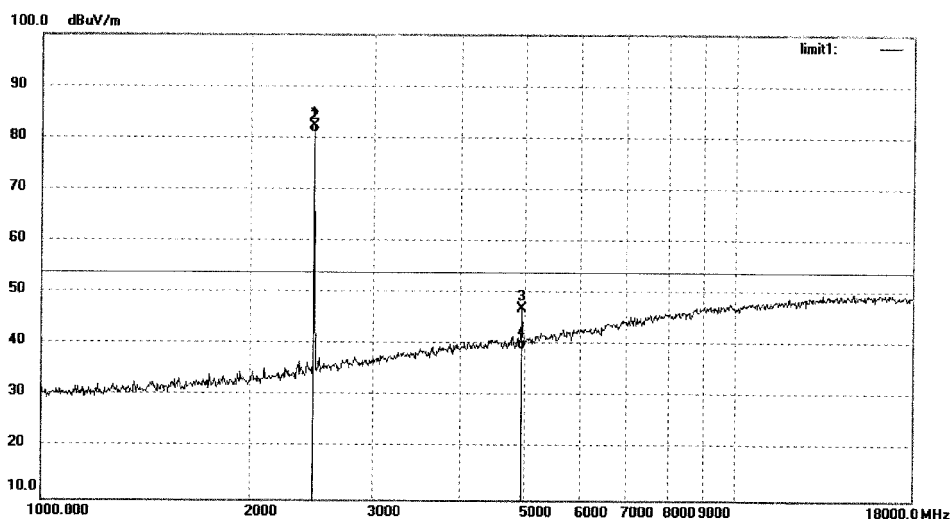
Date: 16/06/24/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	89.72	-7.37	82.35	114.00	-32.65	peak			
2	2473.987	88.42	-7.37	81.05	94.00	-12.95	AVG			
3	4947.976	46.56	0.46	47.02	74.00	-26.98	peak			
4	4947.976	38.77	0.46	39.23	54.00	-14.77	AVG			

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

Date of testing	:	2016-09-24
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

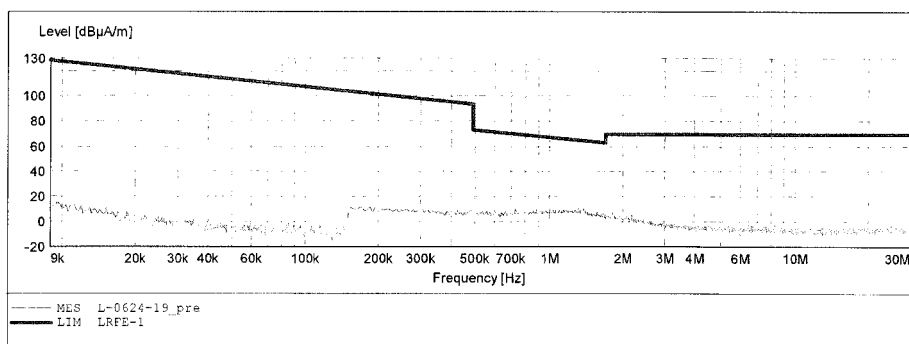
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: X

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



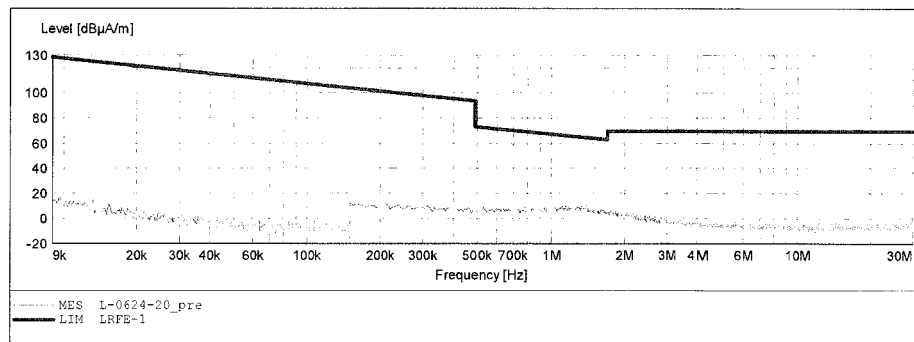
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Y

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



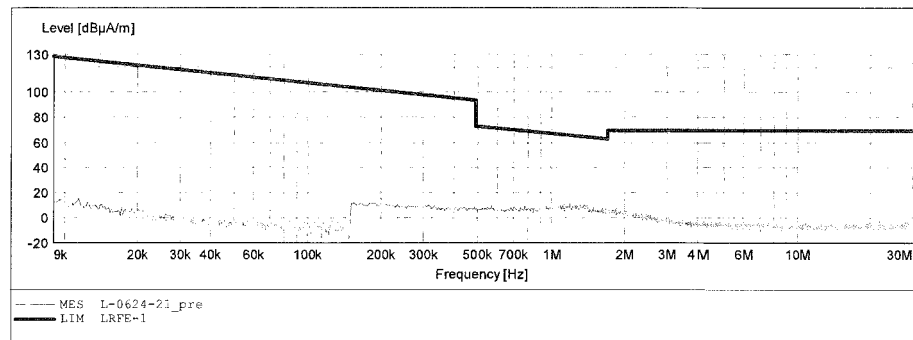
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Z

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



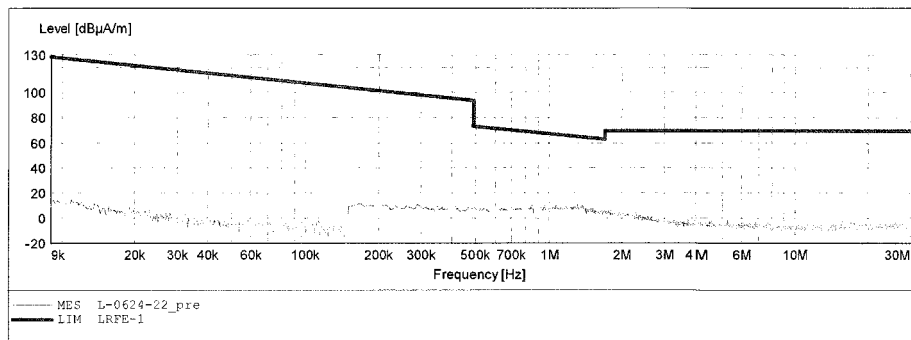
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: X

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

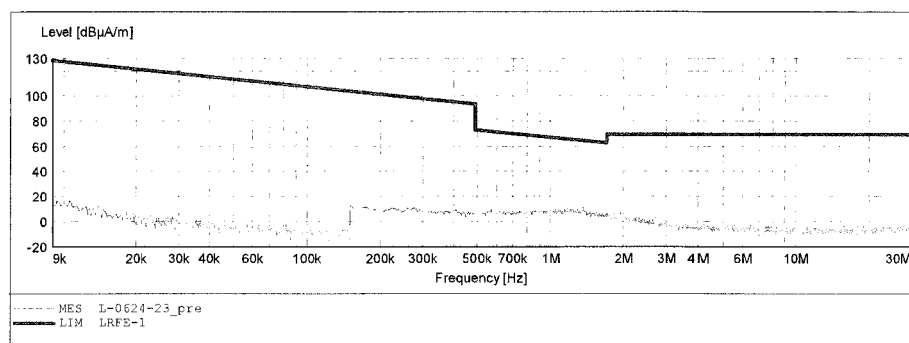


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Y

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



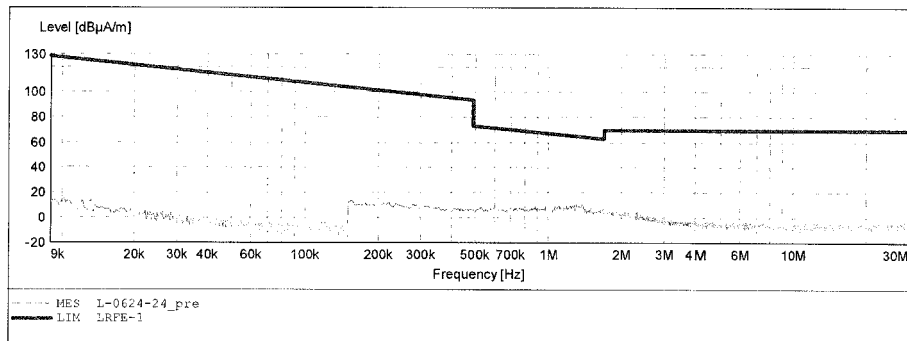
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Z

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

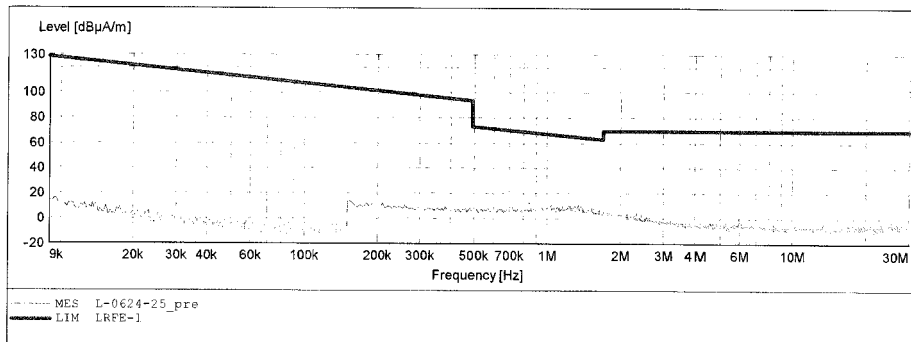


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: X

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

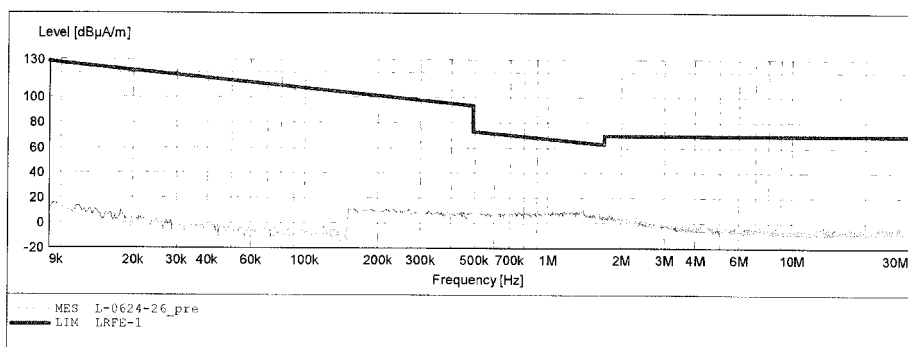


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Y

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



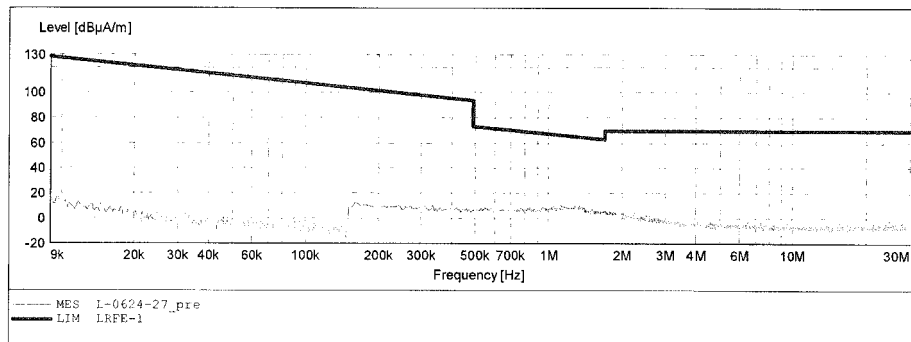
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Handset M/N:HC315
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 4.5V
 Comment: Z

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

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Job No.: LGWADE #2214

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2422.999MHz

Model: HC315

Manufacturer: Limoss

Polarization: Horizontal

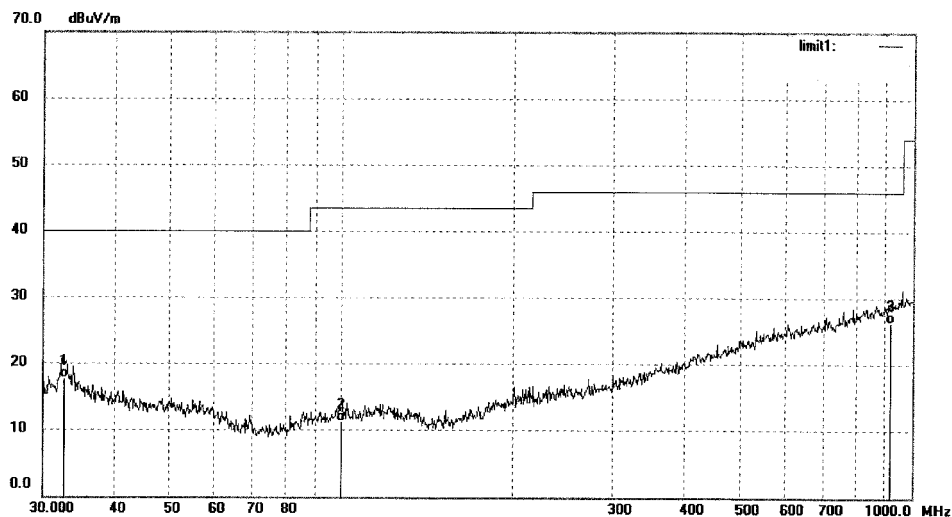
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	27.97	-10.20	17.77	40.00	-22.23	QP			
2	99.8777	24.52	-13.16	11.36	43.50	-32.14	QP			
3	916.0687	24.77	1.49	26.26	46.00	-19.74	QP			


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Job No.: LGWADE #2215

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

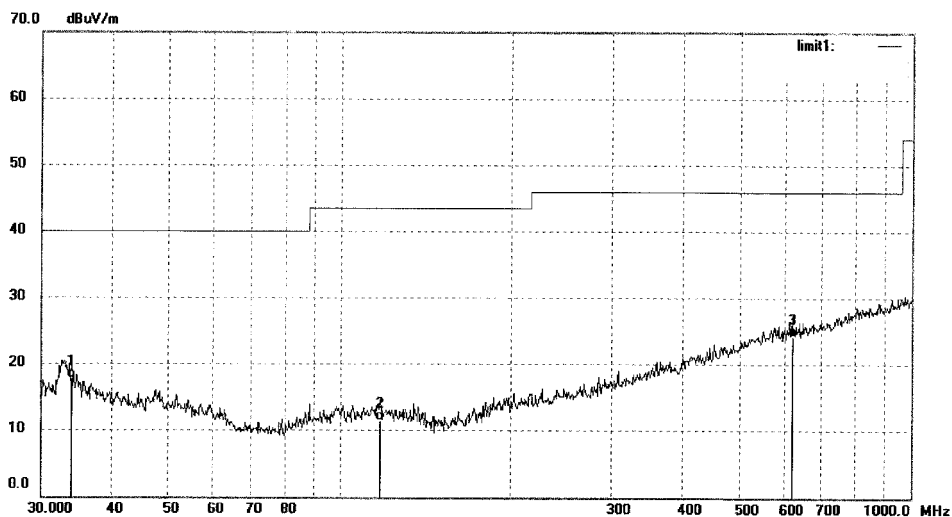
Mode: TX 2422.999MHz

Distance: 3m

Model: HC315

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	33.9174	27.87	-10.10	17.77	40.00	-22.23	QP			
2	117.7724	24.68	-13.14	11.54	43.50	-31.96	QP			
3	620.7096	27.01	-2.70	24.31	46.00	-21.69	QP			


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Fax:+86-0755-26503396

Job No.: LGWADE #2217

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2448.393MHz

Model: HC315

Manufacturer: Limoss

Polarization: Horizontal

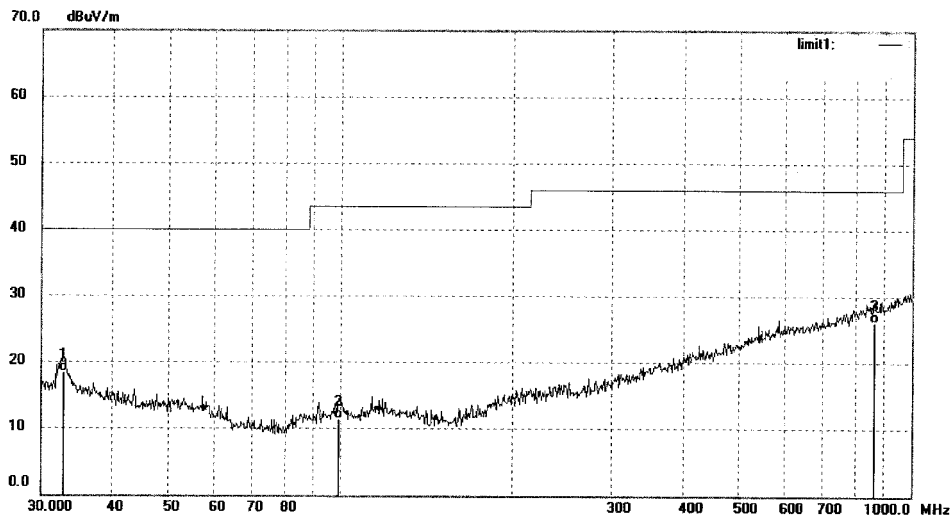
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.8637	28.72	-10.21	18.51	40.00	-21.49	QP			
2	99.5279	24.74	-13.28	11.46	43.50	-32.04	QP			
3	863.0561	25.13	0.96	26.09	46.00	-19.91	QP			


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Fax:+86-0755-26503396

Job No.: LGWADE #2216

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2448.393MHz

Model: HC315

Manufacturer: Limoss

Polarization: Vertical

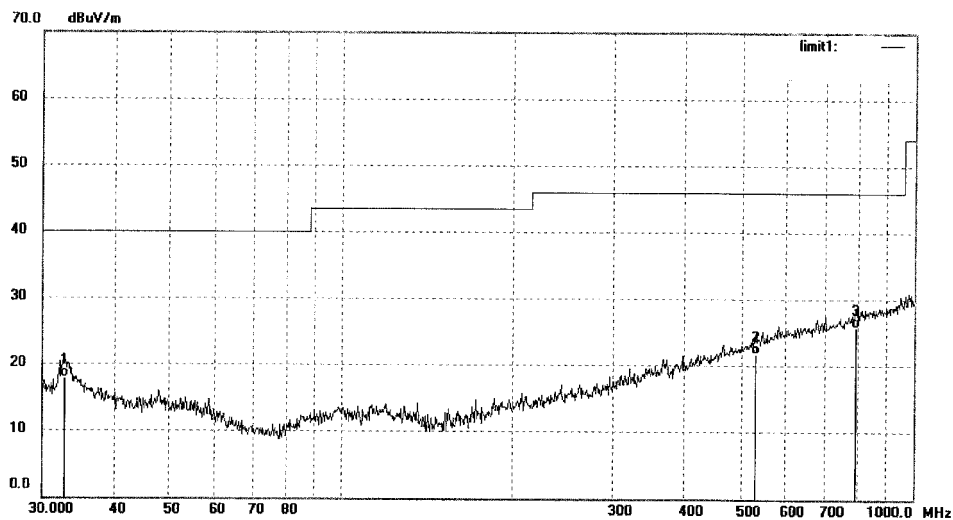
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.8637	27.80	-9.79	18.01	40.00	-21.99	QP			
2	530.1014	26.01	-4.19	21.82	46.00	-24.18	QP			
3	793.3958	25.86	-0.12	25.74	46.00	-20.26	QP			


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Fax:+86-0755-26503396

Job No.: LGWADE #2218

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

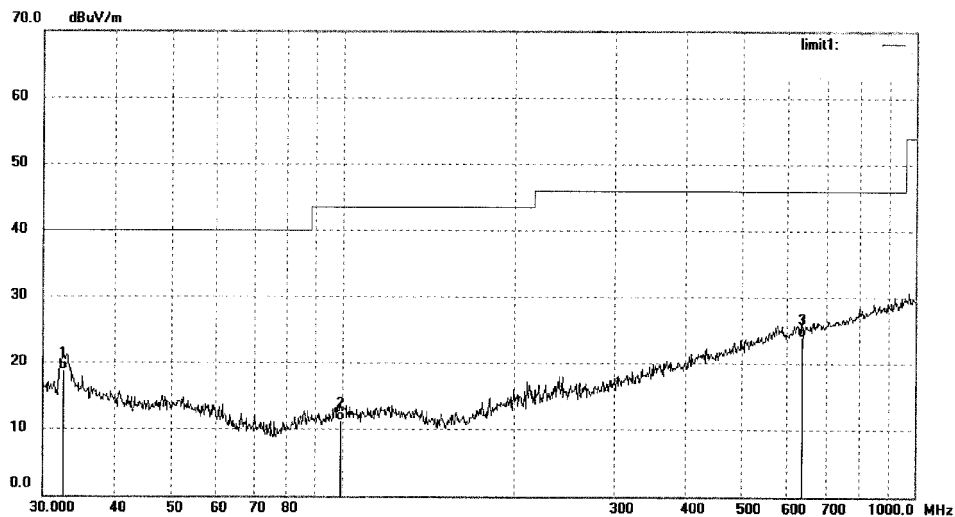
Mode: TX 2473.987MHz

Distance: 3m

Model: HC315

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	32.5197	28.90	-10.17	18.73	40.00	-21.27	QP			
2	99.5279	24.49	-13.28	11.21	43.50	-32.29	QP			
3	636.1340	26.70	-2.56	24.14	46.00	-21.86	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGWADE #2219

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

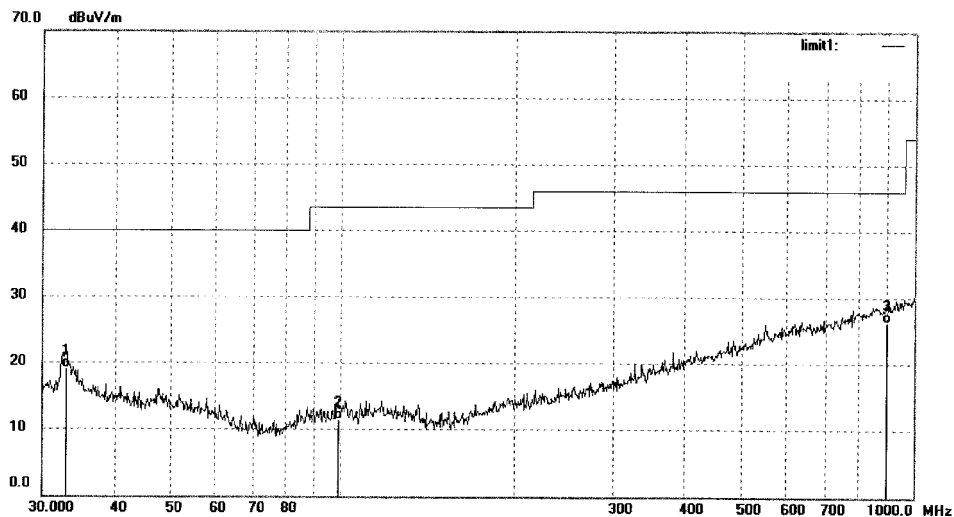
Distance: 3m

Mode: TX 2473.987MHz

Model: HC315

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	32.9791	28.96	-9.82	19.14	40.00	-20.86	QP			
2	98.8324	25.02	-13.51	11.51	43.50	-31.99	QP			
3	893.8567	25.11	1.26	26.37	46.00	-19.63	QP			


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Job No.: LGWADE #2199

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2422.999MHz

Model: HC315

Manufacturer: Limoss

Polarization: Horizontal

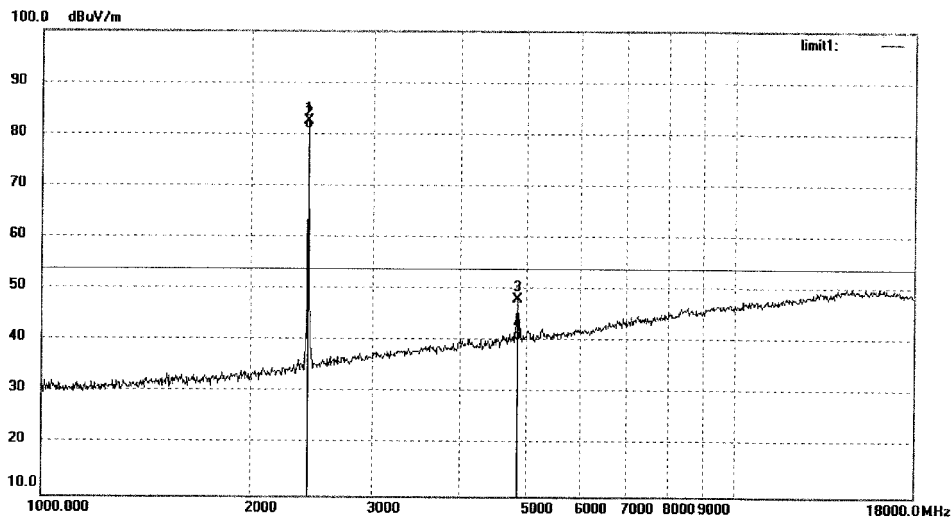
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	89.97	-7.40	82.57	114.00	-31.43	peak			
2	2422.999	88.47	-7.40	81.07	94.00	-12.93	AVG			
3	4845.977	48.19	-0.06	48.13	74.00	-25.87	peak			
4	4845.977	40.35	-0.06	40.29	54.00	-13.71	AVG			


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Fax:+86-0755-26503396

Job No.: LGWADE #2198

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

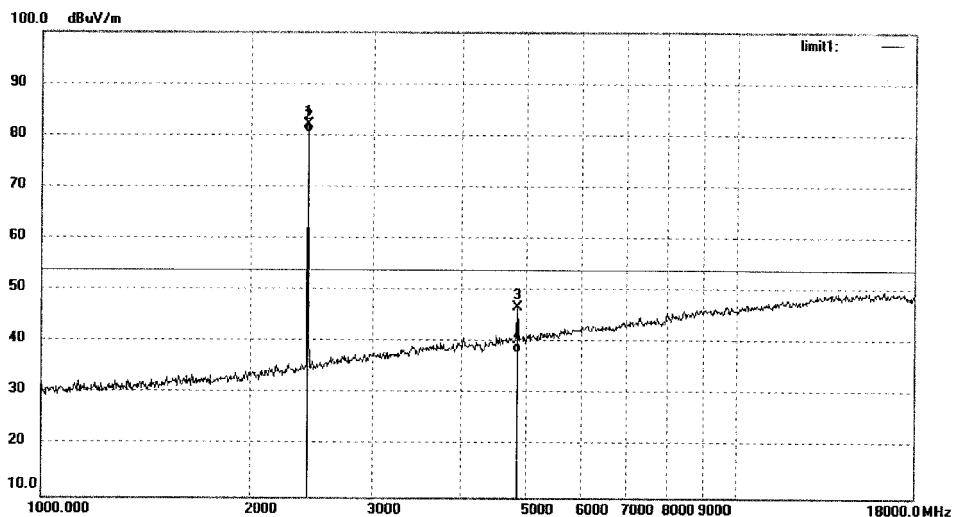
Mode: TX 2422.999MHz

Distance: 3m

Model: HC315

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	89.51	-7.40	82.11	114.00	-31.89	peak			
2	2422.999	88.01	-7.40	80.61	94.00	-13.39	AVG			
3	4845.983	46.90	-0.06	46.84	74.00	-27.16	peak			
4	4845.983	38.18	-0.06	38.12	54.00	-15.88	AVG			


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Job No.: LGWADE #2200

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

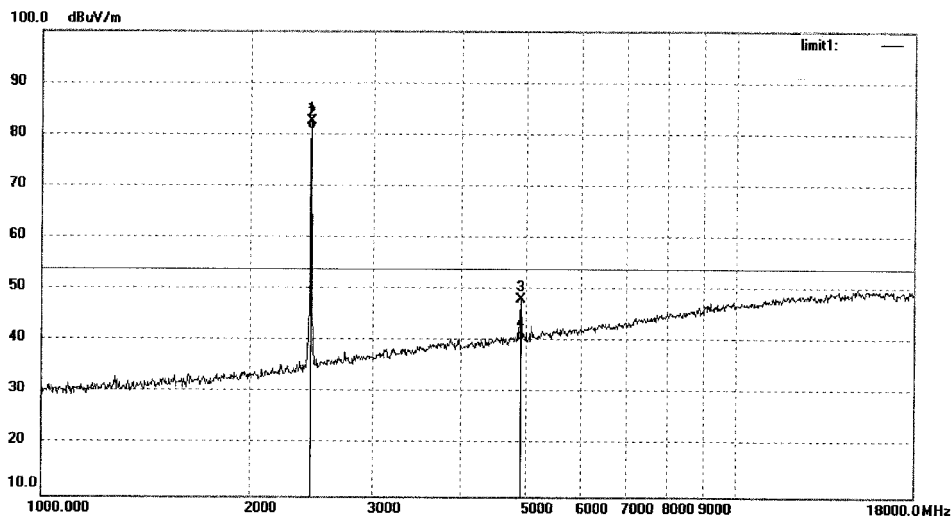
Mode: TX 2448.393MHz

Distance: 3m

Model: HC315

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	89.94	-7.34	82.60	114.00	-31.40	peak			
2	2448.393	88.34	-7.34	81.00	94.00	-13.00	AVG			
3	4896.790	48.00	0.22	48.22	74.00	-25.78	peak			
4	4896.790	40.13	0.22	40.35	54.00	-13.65	AVG			


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Job No.: LGWADE #2201

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

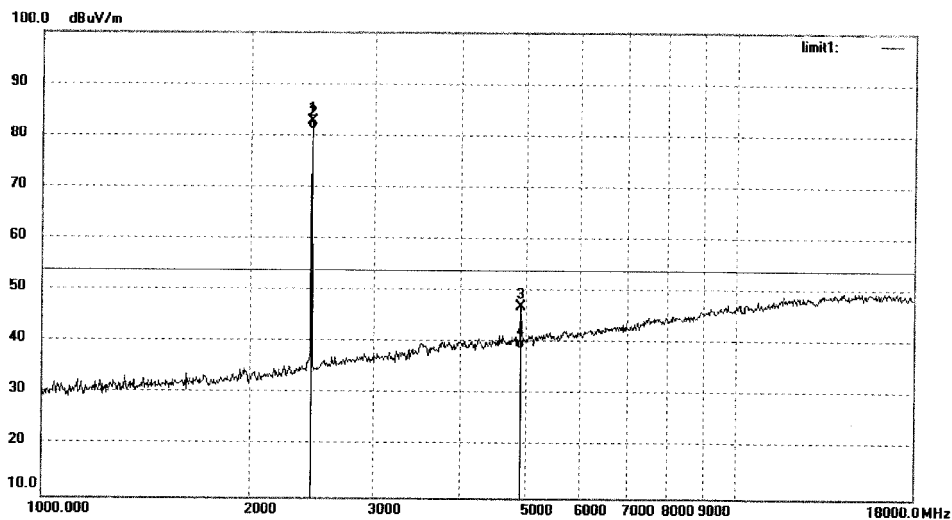
Mode: TX 2448.393MHz

Distance: 3m

Model: HC315

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	90.15	-7.34	82.81	114.00	-31.19	peak			
2	2448.393	88.55	-7.34	81.21	94.00	-12.79	AVG			
3	4896.792	46.75	0.22	46.97	74.00	-27.03	peak			
4	4896.792	38.69	0.22	38.91	54.00	-15.09	AVG			


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Job No.: LGWADE #2203

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

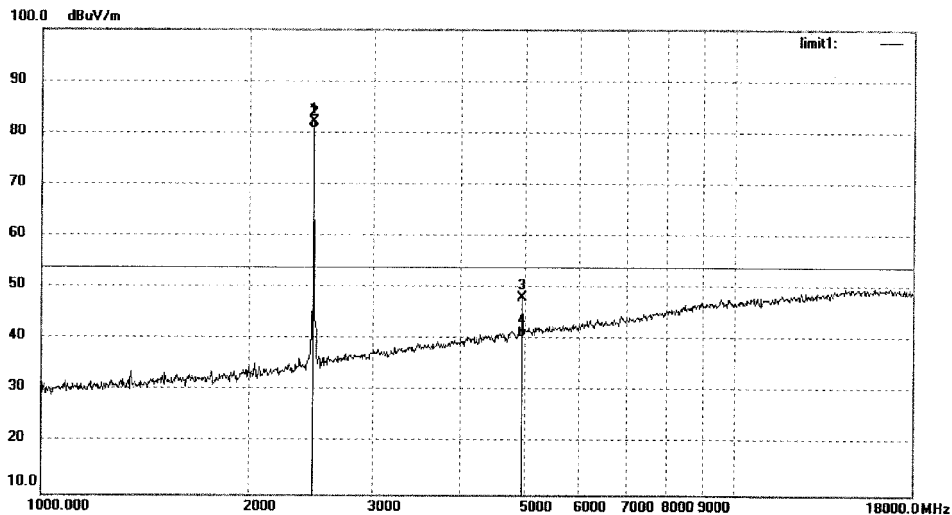
Mode: TX 2473.987MHz

Distance: 3m

Model: HC315

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	89.48	-7.37	82.11	114.00	-31.89	peak			
2	2473.987	88.18	-7.37	80.81	94.00	-13.09	AVG			
3	4947.984	47.77	0.46	48.23	74.00	-25.77	peak			
4	4947.984	40.11	0.46	40.57	54.00	-13.43	AVG			


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Job No.: LGWADE #2202

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2473.987MHz

Model: HC315

Manufacturer: Limoss

Polarization: Vertical

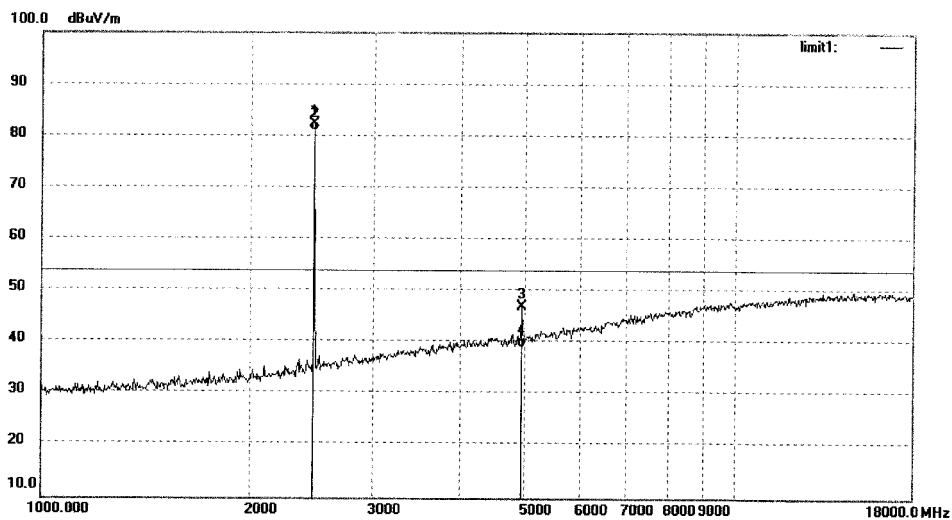
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	89.72	-7.37	82.35	114.00	-32.65	peak			
2	2473.987	88.42	-7.37	81.05	94.00	-12.95	AVG			
3	4947.976	46.56	0.46	47.02	74.00	-26.98	peak			
4	4947.976	38.77	0.46	39.23	54.00	-14.77	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2209

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

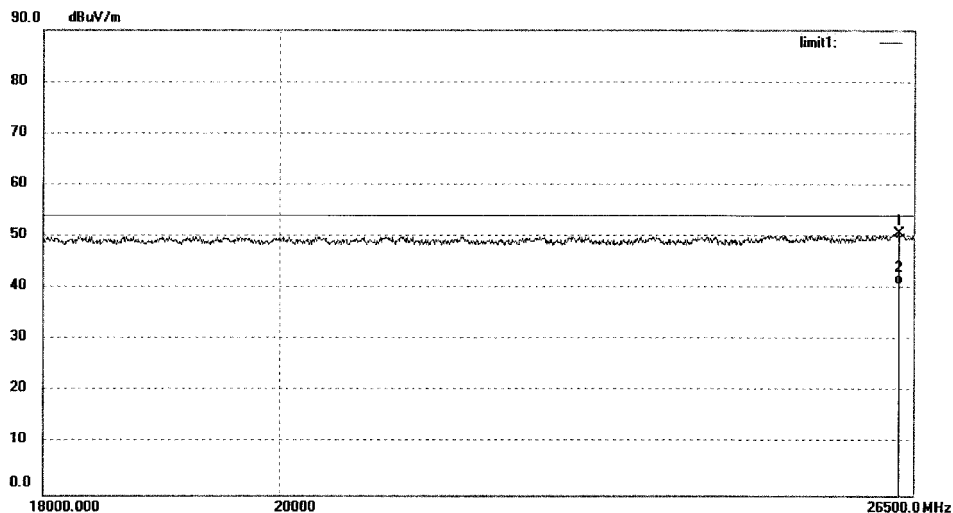
Distance: 3m

Mode: TX 2422.999MHz

Model: HC315

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	26326.330	34.27	16.50	50.77	74.00	-23.23	peak			
2	26326.330	24.34	16.50	40.84	54.00	-13.16	AVG			


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Job No.: LGWADE #2208

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Handset

Mode: TX 2422.999MHz

Model: HC315

Manufacturer: Limoss

Polarization: Vertical

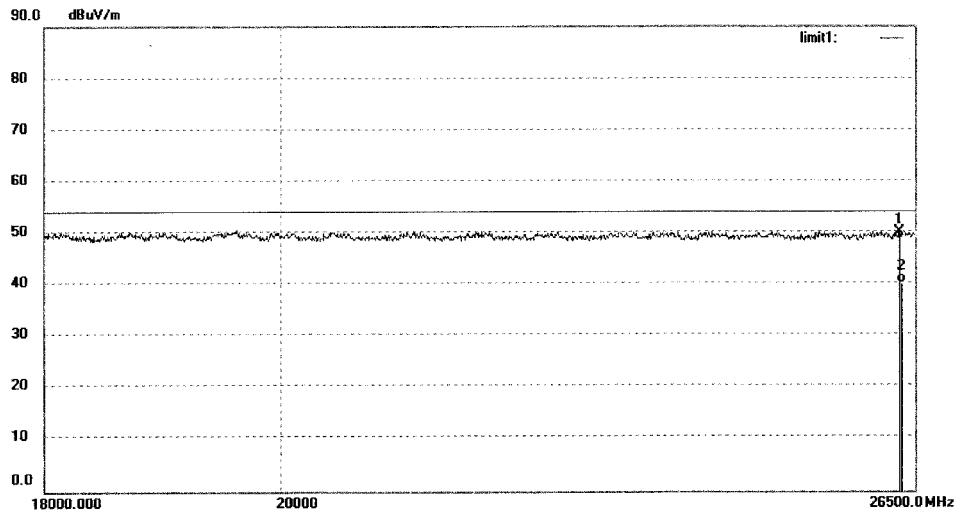
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26316.150	32.99	17.02	50.01	74.00	-23.99	peak			
2	26316.150	23.10	17.02	40.12	54.00	-13.88	AVG			

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Site: 2# Chamber

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Job No.: LGWADE #2210

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

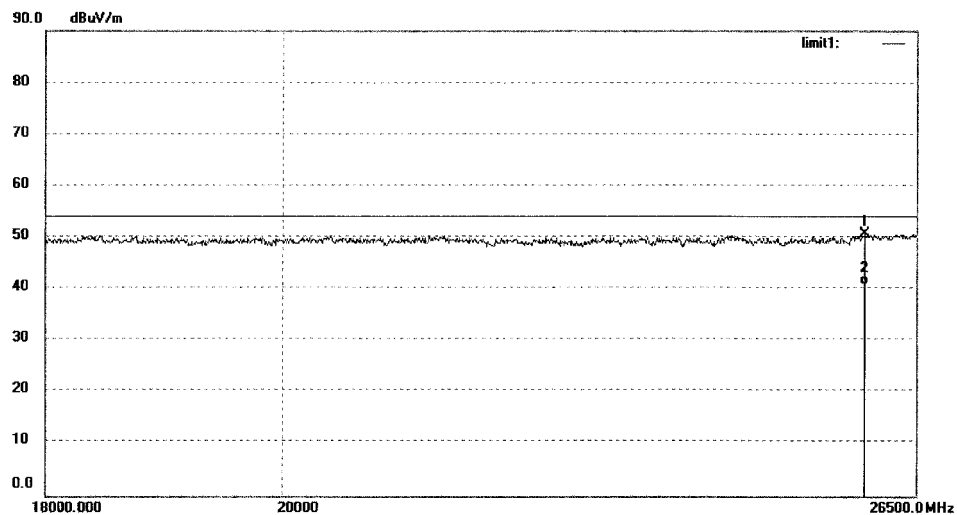
Distance: 3m

Mode: TX 2448.393MHz

Model: HC315

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	25902.128	34.21	16.50	50.71	74.00	-23.29	peak			
2	25902.128	24.37	16.50	40.87	54.00	-13.13	AVG			

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Fax:+86-0755-26503396

Job No.: LGWADE #2211

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

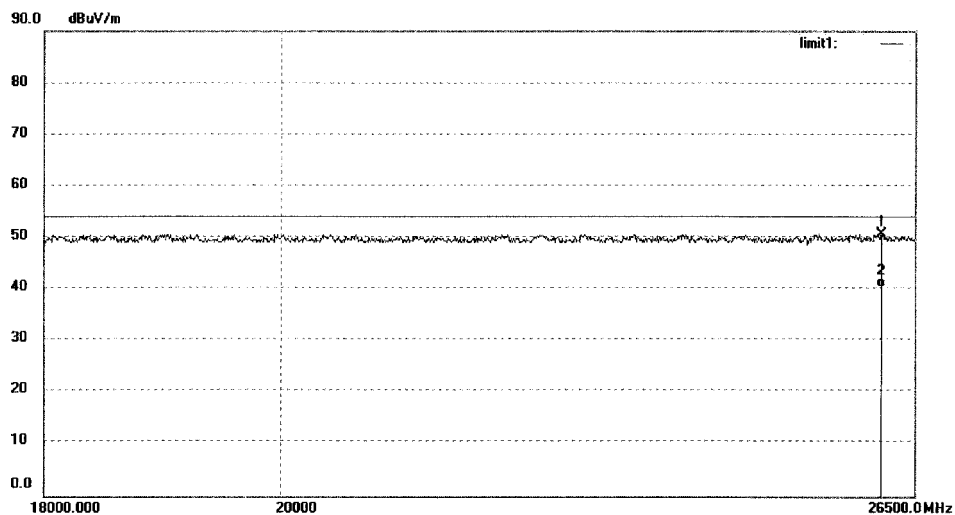
Distance: 3m

Mode: TX 2448.393MHz

Model: HC315

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	26113.368	33.49	17.16	50.65	74.00	-23.35	peak			
2	26113.368	23.19	17.16	40.35	54.00	-13.65	AVG			

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Site: 2# Chamber

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Job No.: LGWADE #2213

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

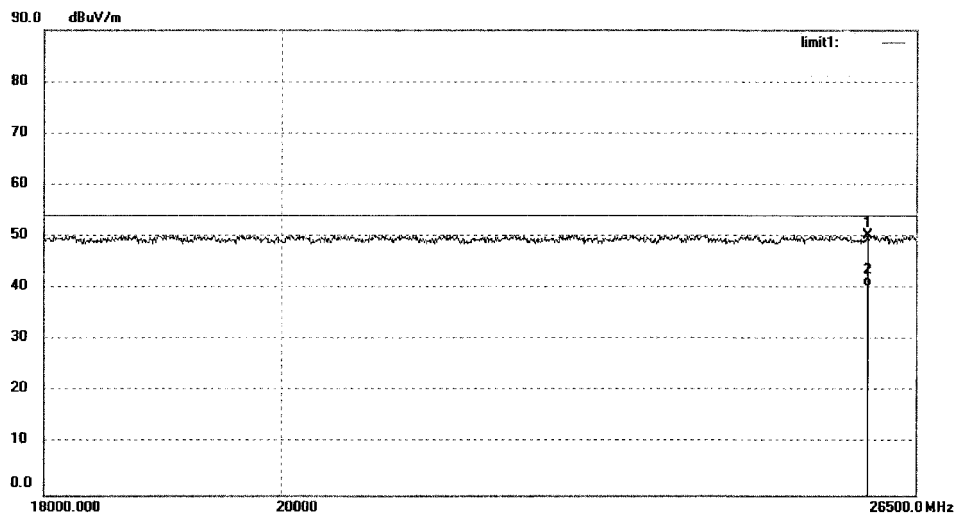
Distance: 3m

Mode: TX 2473.987MHz

Model: HC315

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	25932.200	33.71	16.50	50.21	74.00	-23.79	peak			
2	25932.200	23.85	16.50	40.35	54.00	-13.65	AVG			

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Fax:+86-0755-26503396

Job No.: LGWADE #2212

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 4.5V

Test item: Radiation Test

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

Time:

EUT: Handset

Engineer Signature: LGWADE

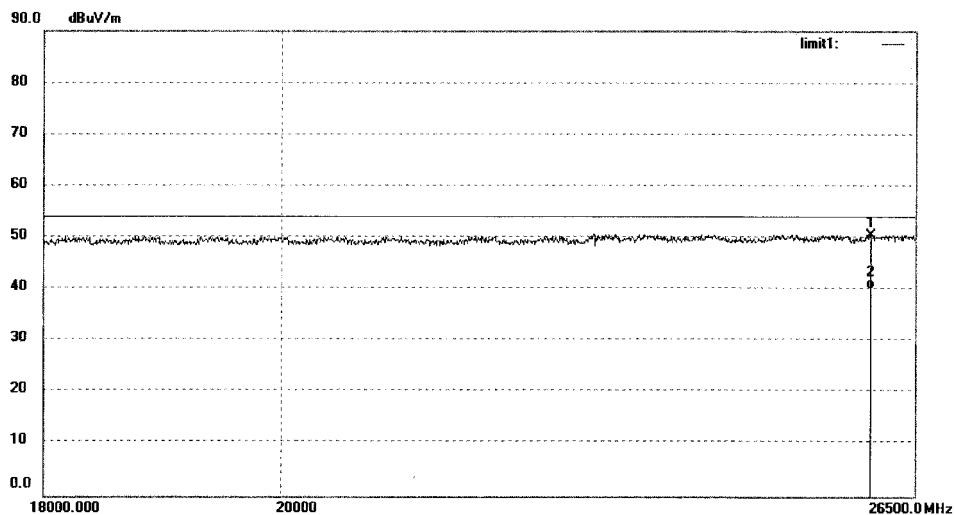
Mode: TX 2473.987MHz

Distance: 3m

Model: HC315

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	25982.398	33.36	17.24	50.60	74.00	-23.40	peak			
2	25982.398	22.88	17.24	40.12	54.00	-13.88	AVG			

Test Plot of Frequency Band Edge


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Job No.: LGWADE #2206

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: DC 4.5V

Test item: Radiation Test

Time:

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

Engineer Signature: LGWADE

EUT: Handset

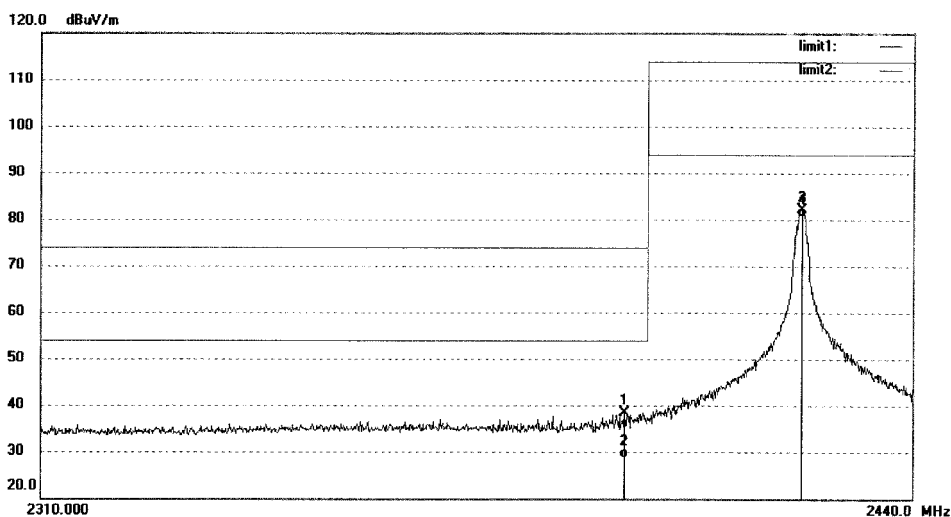
Distance: 3m

Mode: TX 2422.999MHz

Model: HC315

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	2396.320	45.83	-7.48	38.35	74.00	-35.65	peak			
2	2396.320	36.04	-7.48	28.56	54.00	-25.44	AVG			
3	2422.999	89.52	-7.40	82.12	114.00	-31.88	peak			
4	2422.999	88.02	-7.40	80.62	94.00	-13.38	AVG			


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Site: 2# Chamber

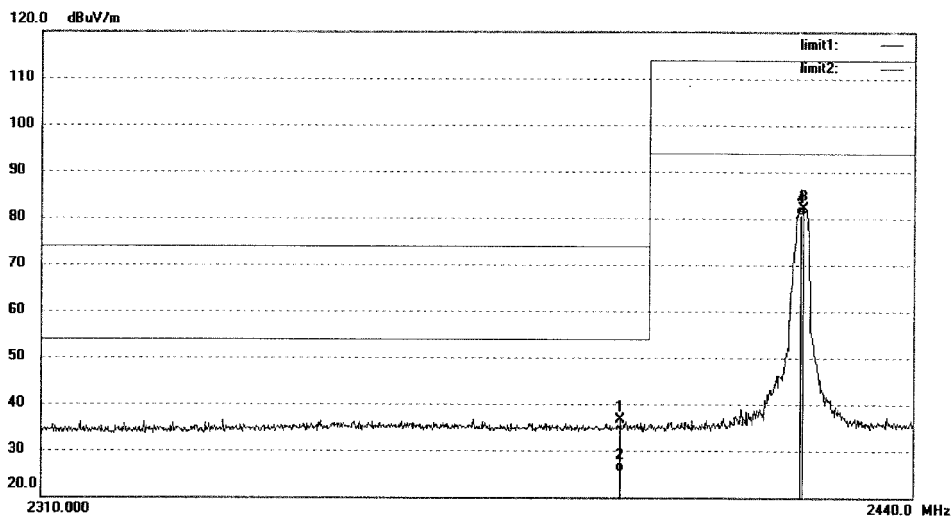
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2207
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Handset
Mode: TX 2422.999MHz
Model: HC315
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 4.5V
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2395.670	44.01	-7.49	36.52	74.00	-37.48	peak			
2	2395.670	32.84	-7.49	25.35	54.00	-28.65	AVG			
3	2422.999	89.61	-7.40	82.21	114.00	-31.79	peak			
4	2422.999	88.11	-7.40	80.71	94.00	-13.29	AVG			


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Fax:+86-0755-26503396

Job No.: LGWADE #2205
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Handset
Mode: TX 2473.987MHz
Model: HC315
Manufacturer: Limoss

Polarization: Horizontal

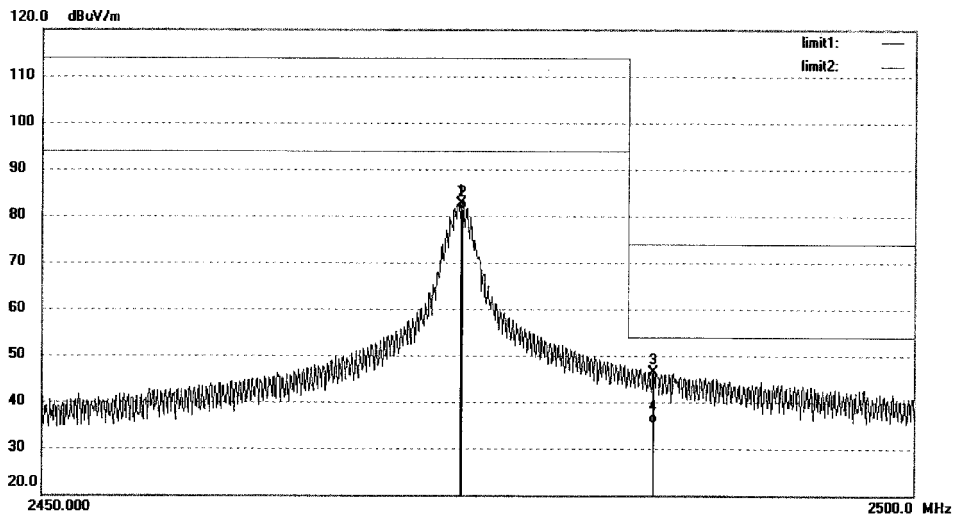
Power Source: DC 4.5V

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	89.98	-7.37	82.61	114.00	-31.39	peak			
2	2473.987	88.68	-7.37	81.31	94.00	-12.69	AVG			
3	2485.000	53.66	-7.38	46.28	74.00	-27.72	peak			
4	2485.000	42.65	-7.38	35.27	54.00	-18.73	AVG			


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Site: 2# Chamber

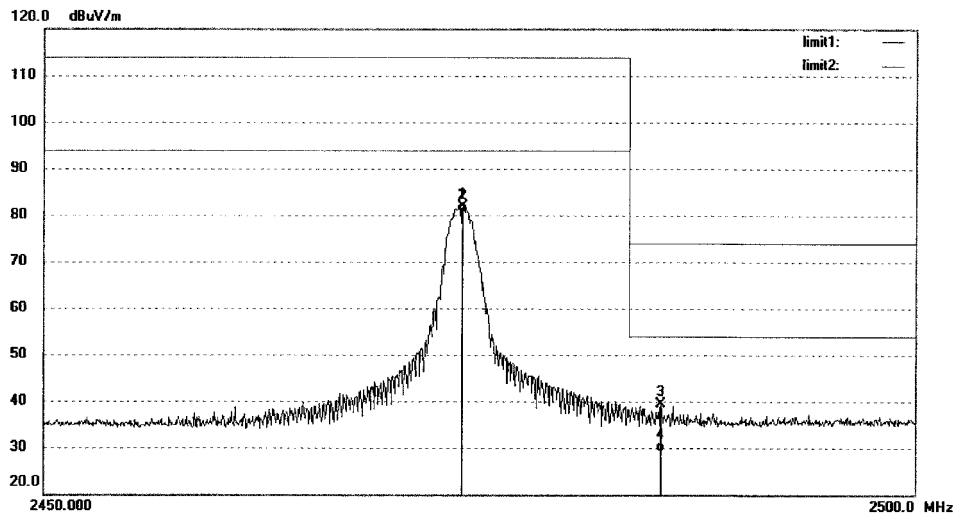
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2204
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Handset
Mode: TX 2473.987MHz
Model: HC315
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 4.5V
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	89.22	-7.37	81.85	114.00	-32.15	peak			
2	2473.987	87.92	-7.37	80.55	94.00	-13.45	AVG			
3	2485.400	46.78	-7.38	39.40	74.00	-34.60	peak			
4	2485.400	36.63	-7.38	29.25	54.00	-24.75	AVG			

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