

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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TEST REPORT

Report Number: 13080584HKG-001

Application
For

Class II Permissive Change of 47 CFR Part 15 Certification
Reassessment of RSS-213 Issue 2 Equipment Certification

Unlicensed Personal Communication Service Devices/
2 GHz License-exempt Personal Communications Service Devices

(Base Unit)

FCC ID: VLJ80-8160-01

IC: 4522A-80816001

Prepared and Checked by:

A handwritten signature in black ink, appearing to read 'Benny Lau', written over a horizontal line.

Lau Chin Yu, Benny
Lead Engineer

Approved by:

A handwritten signature in black ink, appearing to read 'Melvin Nip', written over a horizontal line.

Nip Ming Fung, Melvin
Assistant Manager
January 20, 2014

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Intertek Testing Services Hong Kong Ltd.

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GENERAL INFORMATION

Binatone Electronics International Limited:	Binatone Electronics International Limited
Applicant Address:	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong.
FCC Specification Standard:	FCC Part 15, October 1, 2012 Edition
FCC ID:	VLJ80-8160-01
FCC Model(s):	1. L601, L602, L603, L604, L605, L60X, L601M, L602M, L603M, L604M, L605M, L60XM, L6, L6M 2. L701, L702, L703, L704, L705, L70X, L701M, L702M, L703M, L704M, L705M, L70XM, L7, L7M
IC Specification Standard:	RSS-213 Issue 2, December 2005 RSS-Gen Issue 3, December 2010
IC:	4522A-80816001
IC Model(s):	1. L601, L602, L603, L604, L605, L601M, L602M, L603M, L604M, L605M, L6, L6M 2. L701, L702, L703, L704, L705, L701M, L702M, L703M, L704M, L705M, L7, L7M
Type of EUT:	Unlicensed Personal Communications Service Devices
Description of EUT:	1. 1.9GHz Digital Modulation Cordless Phone with Caller ID and Speakerphone - Base Unit 2. 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone and Digital Answering Machine - Base Unit
Serial Number:	N/A
Sample Receipt Date:	August 13, 2013
Date of Test:	August 21, 2013 to December 19, 2013
Report Date:	January 20, 2014
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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EXHIBIT 1
TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

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1.0 Test Results Summary & Statement of Compliance

1.1 Summary of Test Results

General Technical Requirements					
Test Items	RSS-213 / RSS-Gen[#] Clause	FCC Part 15 Section	Test Procedure ANSI C63.17 / ANSI C63.4[*]	Results	Details see section
Occupied/Emission Bandwidth	6.4	15.323(a)	6.1.3	Pass	4.1
Directional Gain of the Antenna	4.1(e)	15.319(e)	4.3.1	Pass	4.2
Peak Transmit Power	6.5	15.319(c)	6.1.2	Pass	4.3
Power Spectral Density	6.6	15.319(d)	6.1.5	Pass	4.4
AC Power Line Conducted Emissions from EUT	6.3	15.315	7 [*]	Pass	4.7

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1.1 Summary of Test Results (continued)

Specific Requirements for UPCS Device					
Test Items	RSS-213 Clause	FCC Part 15 Section	Test Procedure ANSI C63.17	Results	Details see section
Unwanted Emission Inside the Sub-Band	6.7.2	15.323(d)	6.1.6.1	Pass	4.5
Emissions Outside the Sub-Band	6.7.1	15.323(d)	6.1.6.2	Pass	4.6
Frame Period and Jitter	4.3.4(c)	15.323(e)	6.2.3	Pass	4.8
Lower Monitoring Threshold	4.3.4(b2&b9)	15.323(c2&c9)	7.3.1	NA	4.9.1
Upper Monitoring Threshold	4.3.4(c5&c9)	15.323(c5.1&c9)	7.3.2	Pass	4.9.2.1

1.2 Statement of Compliance

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2012 Edition
RSS-213 Issue 2, December 2005
RSS-Gen Issue 3, December 2010

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EXHIBIT 2
GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The L602 is a 1.9GHz Digital Modulation Cordless Phone with Caller ID and Speakerphone - Base Unit. The L702 is a 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone and Digital Answering Machine - Base Unit. They operate at frequency range of 1921.536MHz to 1928.448MHz with 5 channels (1921.536MHz, 1923.264MHz, 1924.992MHz, 1926.720MHz and 1928.448MHz). The EUT is powered by an adaptor 100-120VAC to 6VDC 400mA.

The antenna used in base unit is integral, and the test sample is a prototype.

For FCC, the Model(s): L601, L603, L604, L605, L60X, L601M, L602M, L603M, L604M, L605M and L60XM are the same as the Model: L602 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, cosmetic details, model number, number of handset and extra charger to be sold for marketing purpose. Model(s): L701, L703, L704, L705, L70X, L701M, L702M, L703M, L704M, L705M and L70XM are the same as the Model: L702 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, cosmetic details, model number, number of handset and extra charger to be sold for marketing purpose. Suffix (X) indicates any alphanumeric character representing number of handset and extra charger.

For IC, the Model(s): L601, L603, L604, L605, L601M, L602M, L603M, L604M and L605M are the same as the Model: L602 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, cosmetic details, model number, number of handset and extra charger to be sold for marketing purpose. Model(s): L701, L703, L704, L705, L701M, L702M, L703M, L704M, L705M are the same as the Model: L702 in electronics/electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, cosmetic details, model number, number of handset and extra charger to be sold for marketing purpose.

Model(s): L6, L6M, L7, and L7M are an identical handset with a charger for selling a handset standalone. The difference in model number serves as the marketing strategy

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

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2.2 Technical Description

The circuit description and digital modulation techniques description are saved with filename: descri.pdf.

2.3 Purpose of Application

The purpose of change is saved with filename: product change.pdf.

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2.4 Test Methodology

The radiated emission measurements for unintentional radiator (if any) and AC power line-conducted emission measurements were performed according to the test procedures specified in ANSI C63.4 (2009). The radiated emission measurements for intentional radiator contained in UPCS device, conducted emission measurements, Listen Before Transmit (LBT) tests, were performed according to the test procedures specified in ANSI C63.17 (2006). All radiated measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in 47 CFR Part 2 / RSS-Gen Issue 3 (2010).

2.5 Test Facility

The open area test site, AC power line conducted measurement facility and antenna port conducted measurement facility used to collect the radiated data, AC Power Line conducted data, and conductive data are at Rooftop, 2nd Floor and 5th Floor respectively of Intertek Testing Services Hong Kong Ltd., which is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with FCC and Industry Canada.

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EXHIBIT 3
SYSTEM TEST CONFIGURATION

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) was set up to transmit continuously in burst mode with pseudo-random data to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst-case emissions.

The EUT was powered by a 100-120VAC to 6VDC 400mA adaptor.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the EUT is attached to accessories, they were connected and operational (as typical as possible).

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Detector function was in peak mode. Radiated emissions are taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For UPCS transmitter radiated measurement, the spectrum analyzer resolution bandwidth was approximately 1% of EUT emission bandwidth, unless otherwise specified.

Radiated emission measurements for UPCS transmitter were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Based on the purpose of change letter, the data of emission bandwidth, power transmit power, power spectral density, unwanted emissions inside and outside the sub-bands, jitter and monitoring threshold were included in the report.

For AC line conducted emission test, the EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50ohm coupling impedance for measuring instrument. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

All relevant operation modes have been tested, and the worst case data is included in this report.

3.2 Conducted Emission Test Configuration

The setup and equipment setting were made in accordance with ANSI C63.17. The antenna of EUT transmitter was replaced by a coaxial cable. The impedance matching of connection, cable loss and external RF attenuator are taken into account. The EUT was arranged to communicate via a fixed carrier frequency between its transmitter and a companion device. The transmission was configured in burst mode with pseudo-random data as typical as normal operation.

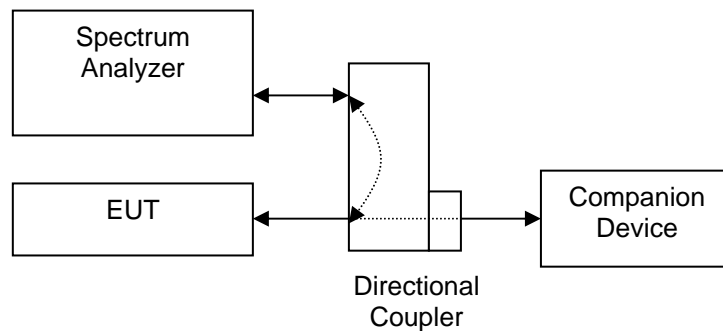


Figure 3.2.1

3.3 Conducted Monitoring and Operation Test Configuration

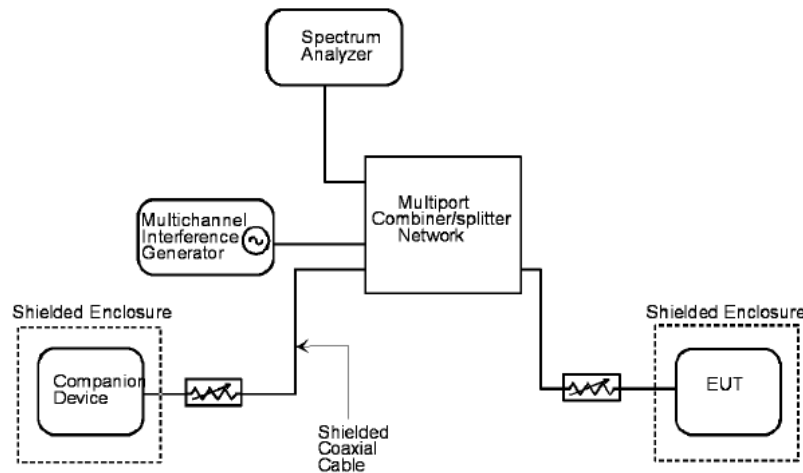


Figure 3.3.1

3.4 EUT Exercising Software

The EUT exercise program (if any) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

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3.5 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor (provided with the unit) were used to power the device. Their descriptions are listed below.

For Model: L602

- (1) An AC adaptor (100-120VAC to 6VDC 400mA, Model: S005IU0600040, Brand: Ten Pao) (Supplied by Client)
- (2) Alternative AC adaptor (100-120VAC to 6VDC 400mA, Model: SSA-5AP-09 US 060040L, Brand: Sunstrong) (Supplied by Client)

For Model: L702

- (3) An AC adaptor (100-120VAC to 6VDC 400mA, Model: S003IU0600040, Brand: Ten Pao) (Supplied by Client)

Description of Accessories:

- (1) Telephone Line Simulator, Model: TLS-5D-01, S/N: 151101 (Supplied by Intertek)
- (2) 3m Telephone Line (Supplied by Intertek)
- (3) 1m Telephone Line with Termination (Supplied by Intertek)

3.6 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

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EXHIBIT 4
TEST RESULTS

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4.0 Measurement Results

4.1 Emission Bandwidth, FCC Rule 15.323(a) / Occupied Bandwidth, RSS-213 Clause 6.4:

Operation shall be contained within the 1920 – 1930 MHz band. The emission bandwidth (B) shall be less than 2.5 MHz and greater than 50 kHz.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.3 and RSS-Gen clause 4.6.1. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measuring Signal Level	Measured Emission Bandwidth (MHz)	Results
Lowest	1921.536	26 dB down	1.487026	Pass
Middle	1924.992	99% Bandwidth	1.200000	Pass
Highest	1928.448	26 dB down	1.516966	Pass

The plots of emission bandwidth and occupied bandwidth are saved as below.

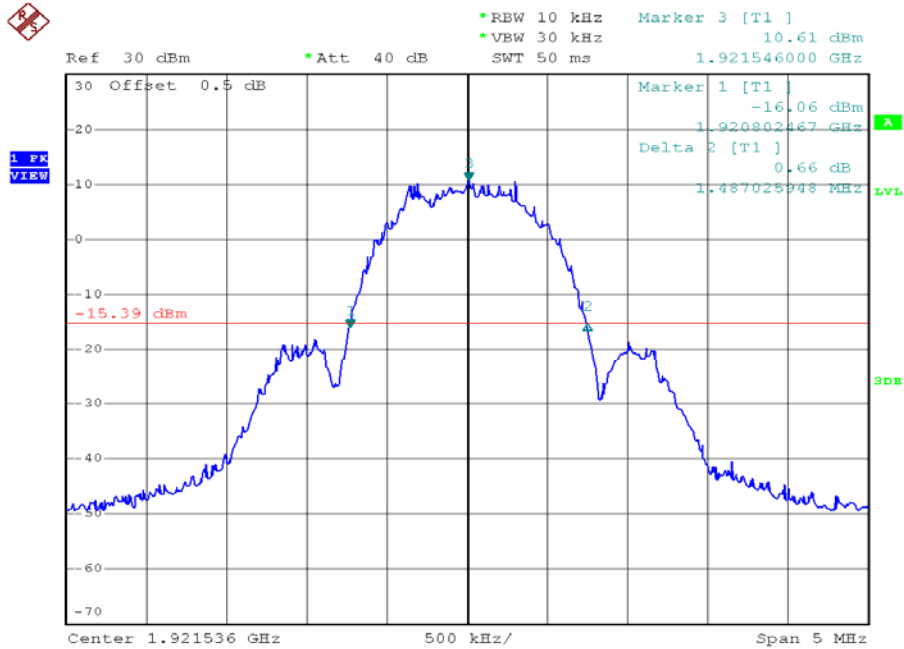
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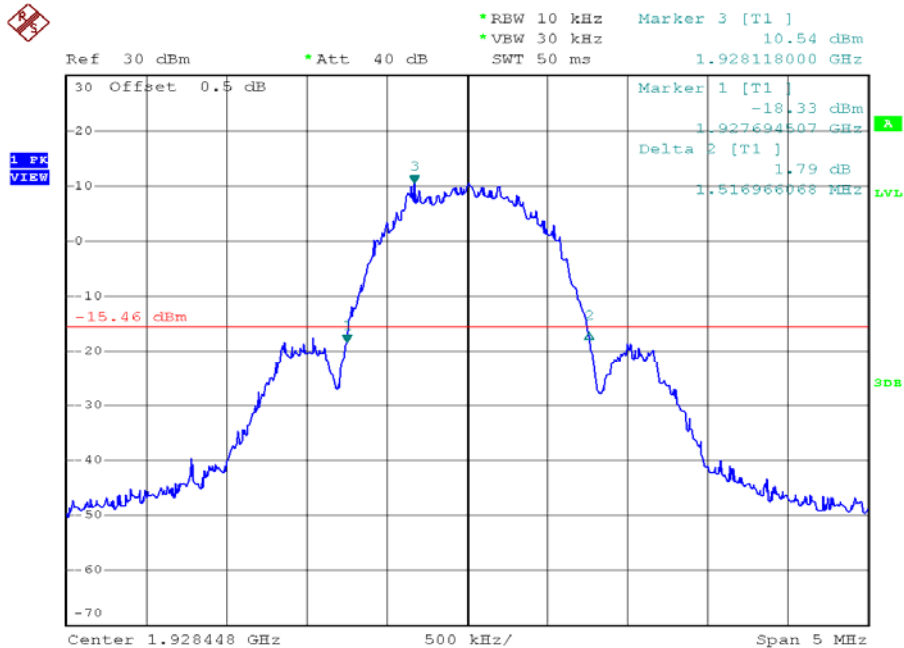


Plots of emission bandwidth (FCC)

Lowest channel, Traffic carrier



Highest channel, Traffic carrier



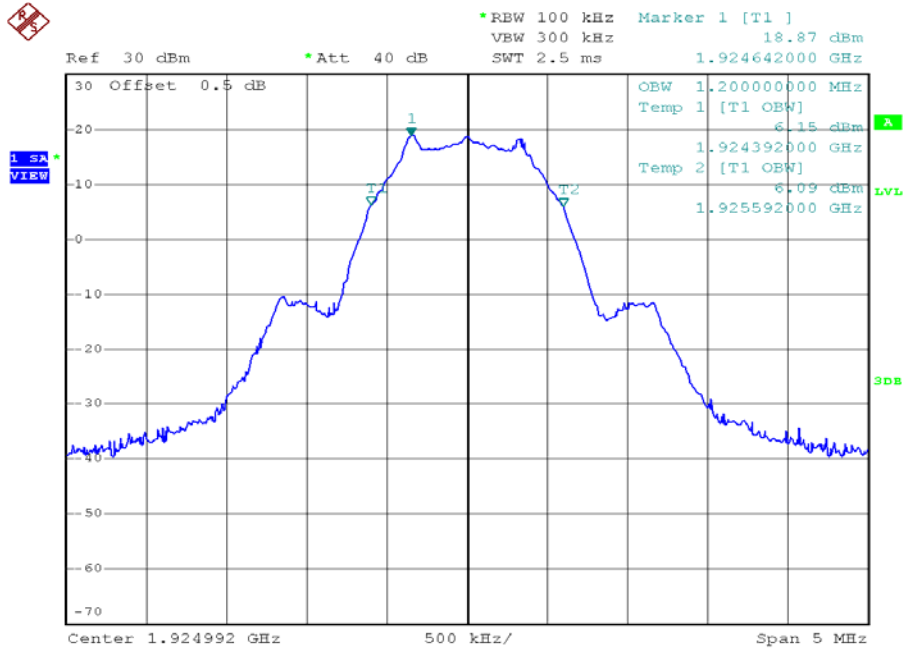
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Plots of occupied bandwidth (IC)

Middle channel, Traffic carrier



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4.2 Directional Gain of the Antenna, FCC Rule FCC 15.319(e) /
RSS-213 Clause 4.1(e):

The peak transmit power shall be reduced by the amount in dB that the maximum directional gain of the antenna exceeds 3 dBi.

The requirements are made in accordance with ANSI C63.17 sub-clause 4.3.1 / RSS-213 Clause 4.1(e).

- Manufacturer declares that the directional gain of the antenna is less than or equal to 3dBi. No peak transmit power reduction is required.
- Manufacturer declares that the directional gain of the antenna is greater than 3dBi. The peak transmit power shall be reduced by ____ dB.

4.3 Peak Transmit Power, FCC Rule 15.319(c) / RSS-213 Clause 6.5:

The peak transmit power (P_{EUT}) shall not exceed $100\mu W$ multiplied by the square root of the emission bandwidth / occupied bandwidth (B) in Hz or $5 \log_{10} B - 10$ dBm. The peak transmit power shall be reduced by the amount in dB that the maximum directional gain of the antenna exceeds 3 dBi.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.2. Test setup is shown in section 3.2 Figure 3.2.1. The cable loss and/or external attenuation are included in OFFSET function of spectrum analyzer.

Calculation of Peak Transmit Power Limit (P_{max}):

$$\begin{aligned} [\times] \quad P_{max} &= 5 \log_{10} B - 10 \text{ dBm} && \text{when } G_A \leq 3\text{dBi} \\ [] \quad P_{max} &= 5 \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi}) && \text{when } G_A > 3\text{dBi} \end{aligned}$$

Where G_A = EUT Antenna Gain: 0 dBi
 B = Measured Emission Bandwidth / Occupied Bandwidth

Test Results:

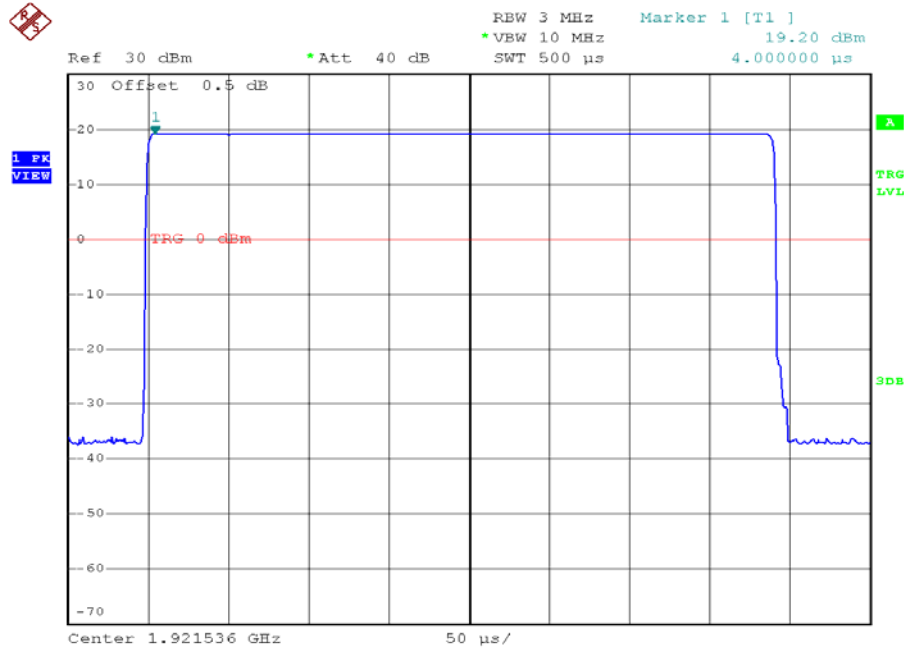
I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measured Peak Transmit Power (dBm)	Limit (dBm)	Results
Lowest	1921.536	19.20	20.86	Pass
Middle	1924.992	19.32	20.39	Pass
Highest	1928.448	19.38	20.91	Pass

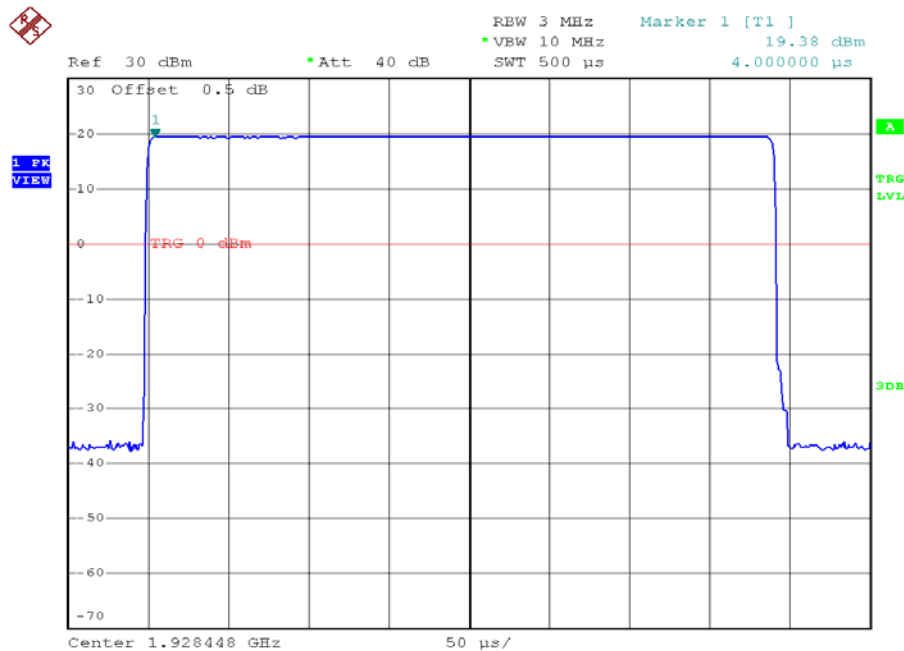
The plots of peak transmit power are saved as below.

Plots of peak transmit power (FCC)

Lowest channel, Traffic carrier



Highest channel, Traffic carrier



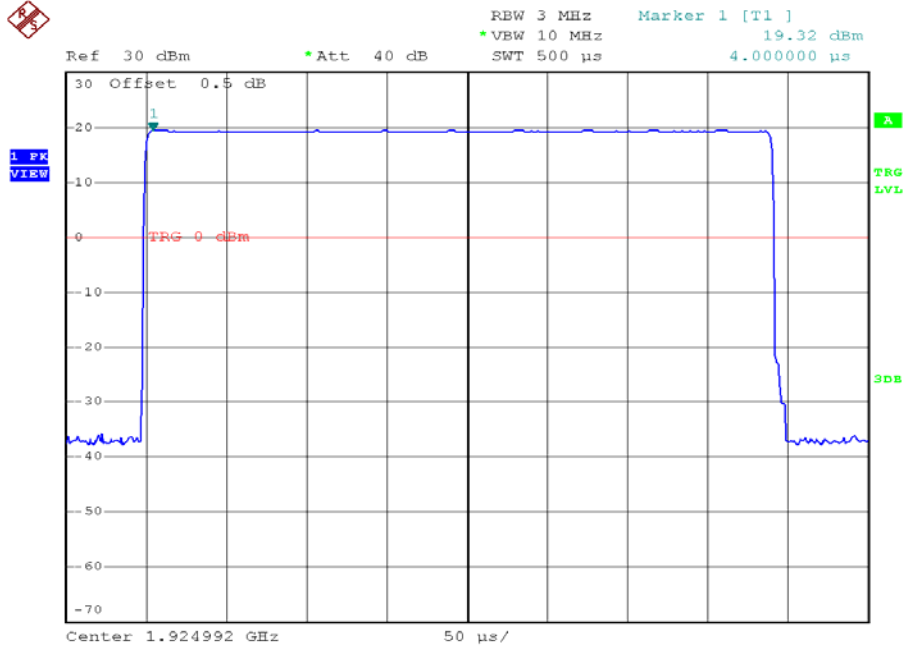
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Plots of peak transmit power (IC)

Middle channel, Traffic carrier



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4.4 Power Spectral Density, FCC Rule 15.319(d) / RSS-213 Clause 6.6:

Power spectral density shall not exceed 3 mW (4.8dBm) in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.5. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

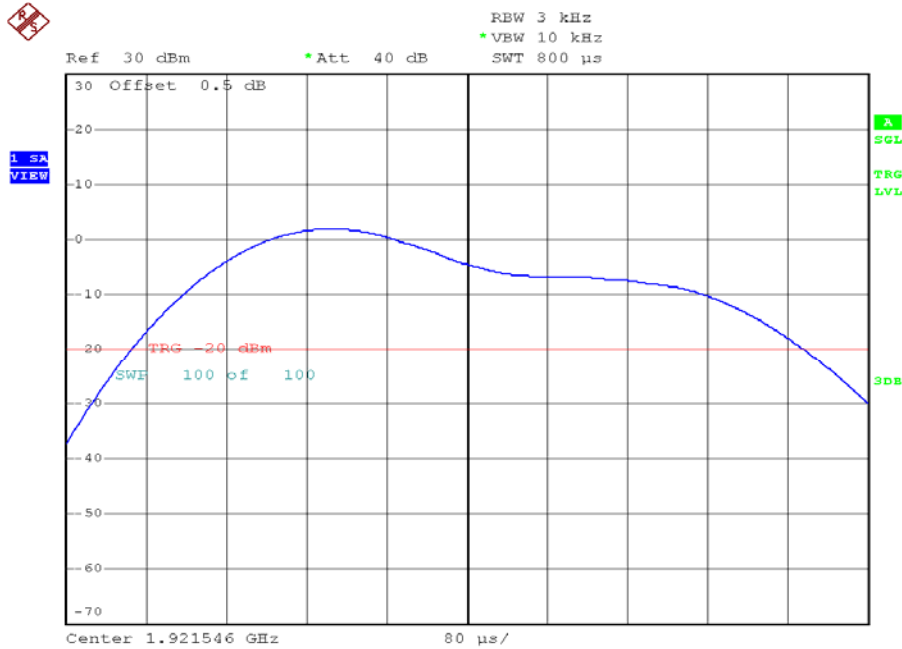
I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measured Power Spectral Density (dBm/3kHz)	Limit (dBm/3 kHz)	Results
Lowest	1921.536	-4.2686245	4.8	Pass
Middle	1924.992	-10.6029683	4.8	Pass
Highest	1928.448	-12.5075661	4.8	Pass

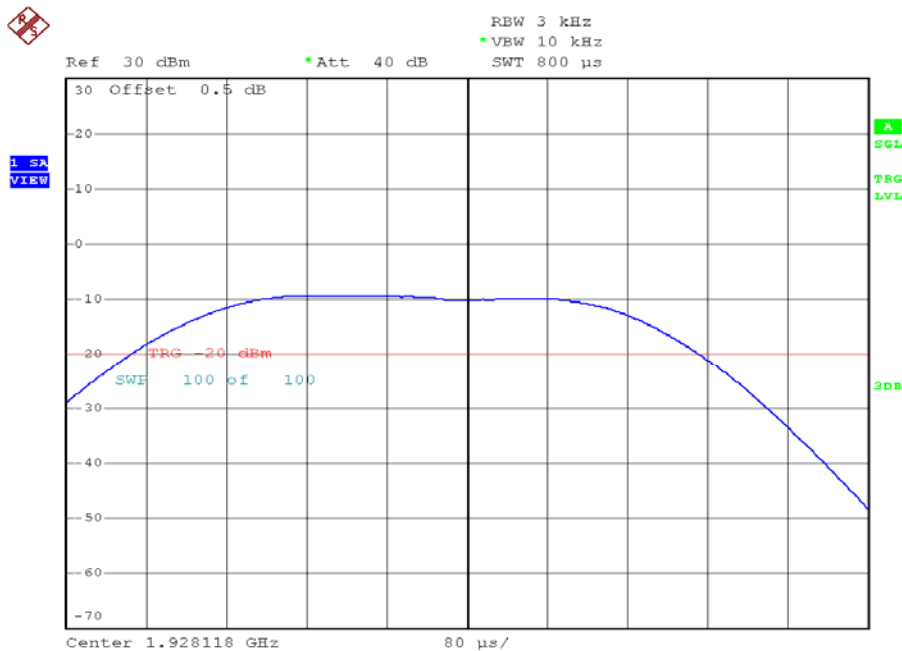
The plots of the power spectral density are as below.

Plots of the power spectral density (FCC)

Lowest channel, Traffic carrier



Highest channel, Traffic carrier



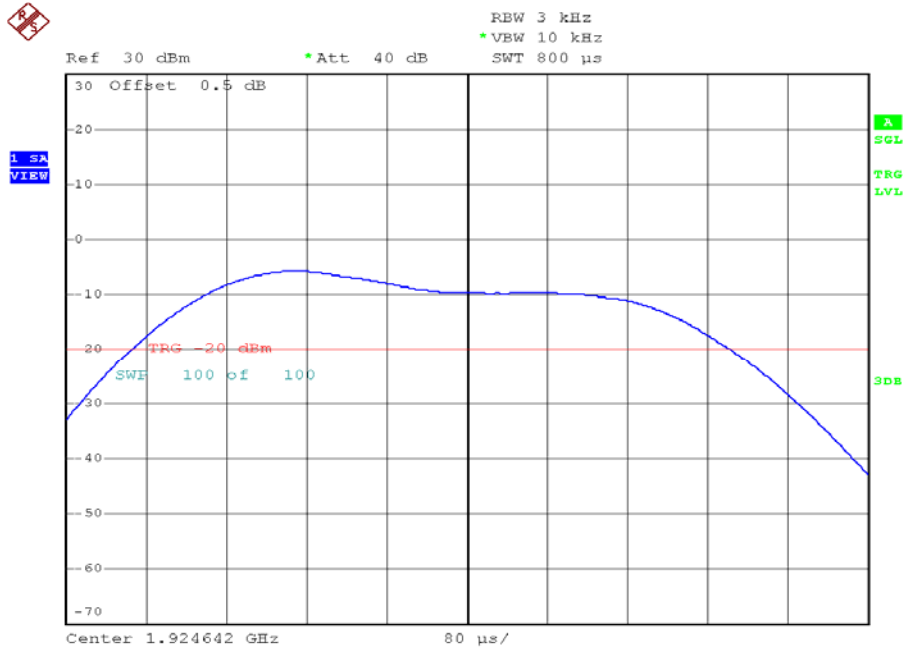
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Plots of the power spectral density (IC)

Middle channel, Traffic carrier



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4.5 Unwanted Emission Inside the Sub-Band, FCC Rule 15.323(d) /
RSS-213 Clause 6.7.2:

Emissions inside the sub-band must comply with the following emission mask:

1. In the bands between $1B$ and $2B$ measured from the center of the emission bandwidth, emission shall be at least 30 dB below the permitted peak transmit power.
2. In the bands between $2B$ and $3B$ measured from the center of the emission bandwidth, emission shall be at least 50 dB below the permitted peak transmit power.
3. In the bands between $3B$ and the band edge, emission shall be at least 60 dB below the permitted peak transmit power.

Where B = emission bandwidth or occupied bandwidth in Hz

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.1. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

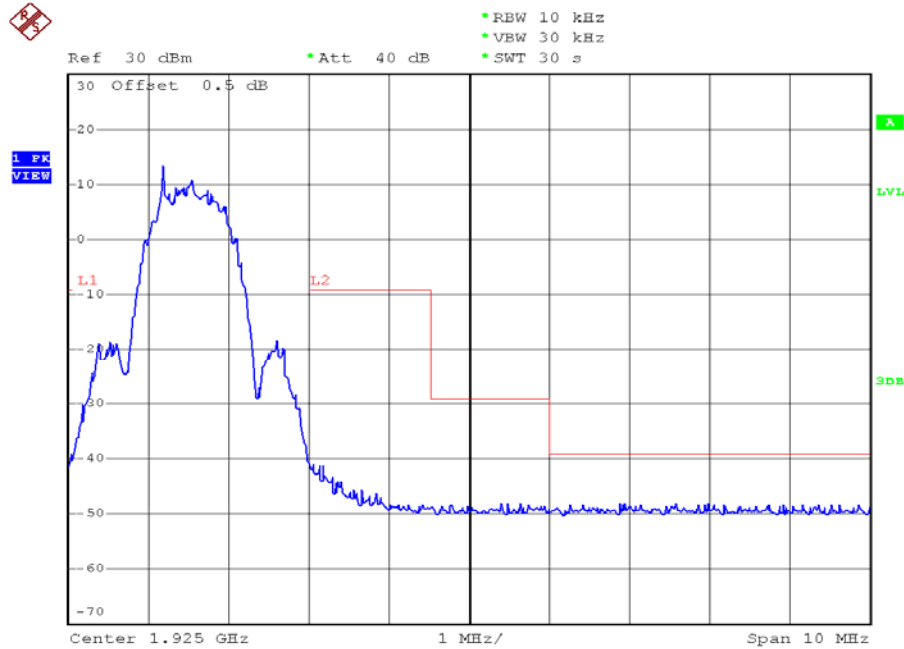
I. Traffic Carrier

Channel	Channel Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

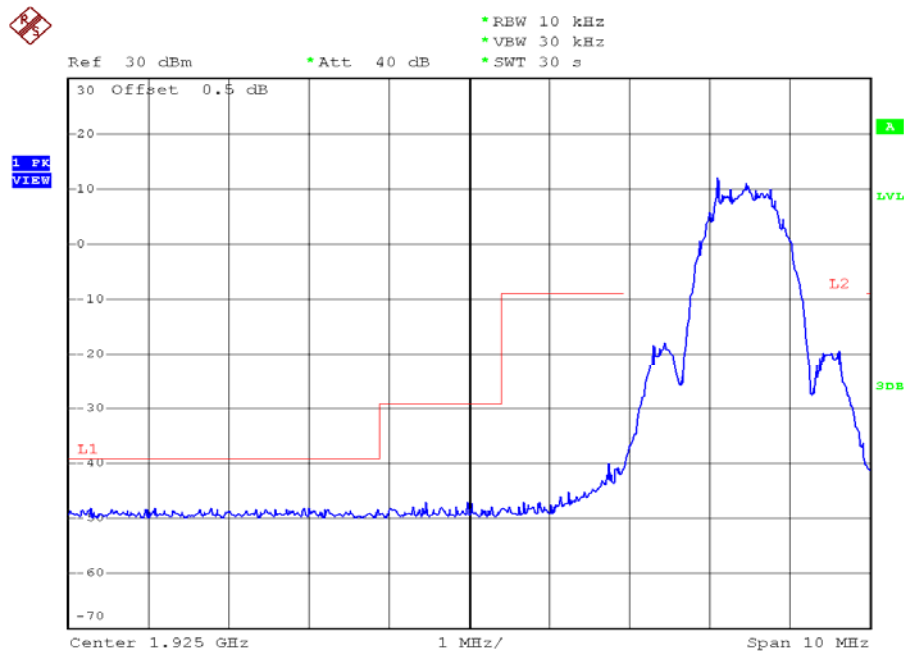
The plots of the unwanted emission inside the sub-band are as below.

Plots of the unwanted emission inside the sub-band (FCC)

Lowest channel, Traffic carrier

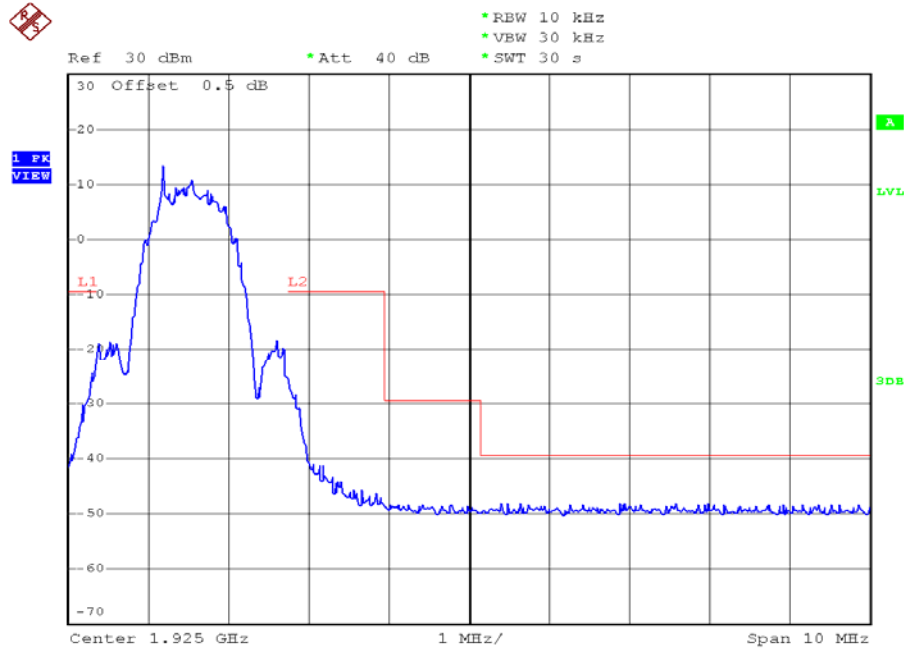


Highest channel, Traffic carrier

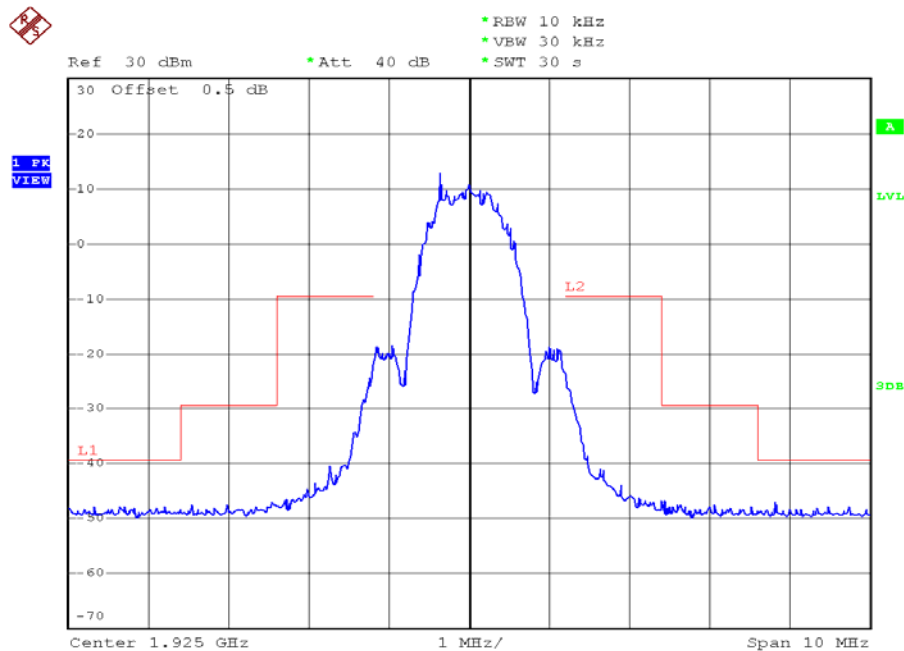


Plots of the unwanted emission inside the sub-band (IC)

Lowest channel, Traffic carrier

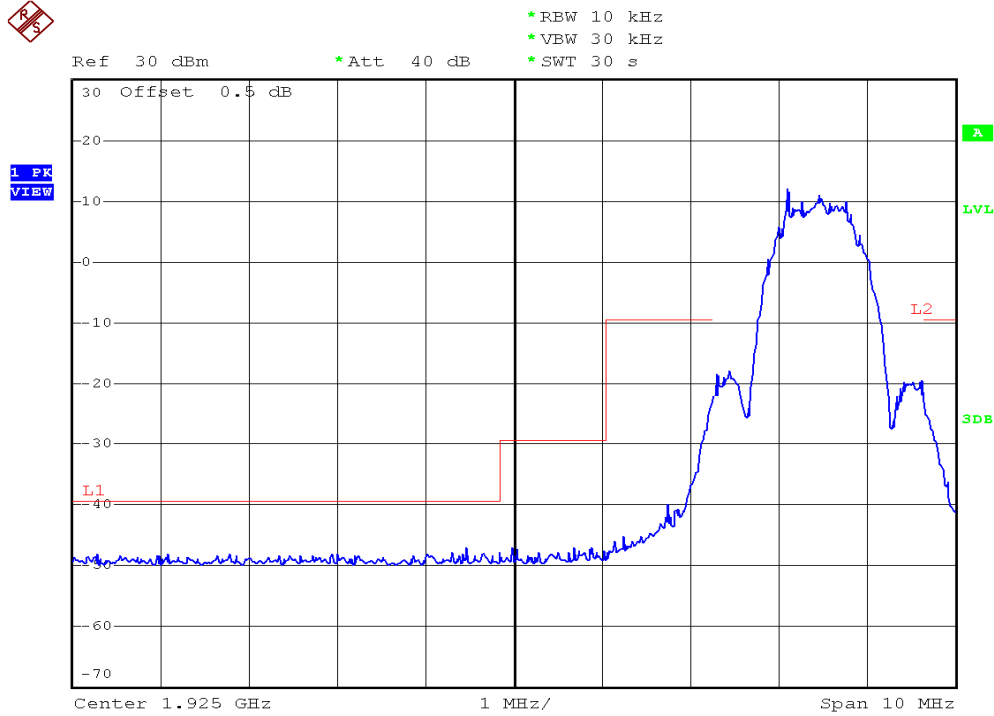


Middle channel, Traffic carrier



Plots of the unwanted emission inside the sub-band (IC)

Highest channel, Traffic carrier



Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.6 Emissions Outside the Sub-Band, FCC Rule 15.323(d) / RSS-213 Clause 6.7.1:

Emissions outside the sub-band shall be attenuated below a reference power of 112 mW (20.5 dBm) as follows:

1. 30 dB between the band edge and 1.25 MHz above or below the band;
2. 50 dB between 1.25 and 2.5 MHz above or below the band; and
3. 60 dB at 2.5 MHz or greater above or below the band, or shall meet the requirement of FCC Rule 15.319(g) which shall not exceed the limits of FCC Rule 15.209 / RSS-210 Clause 2.5.

Example: Calculation of Limit for emissions between the band edge and 1.25 MHz (1920.000 – 1918.750 MHz)

The emissions shall not exceed the Limit: 20.5 dBm – 30 dB = -9.5 dBm

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.2. Radiated emissions test method is used. Emissions that are directly caused by digital circuits in the transmit path and transmitter portion are measured.

Test Results:

Channel	Carrier Frequency (MHz)	Measured Band (MHz)	Limit (dBm)	Results
Lowest	1921.536	1920.000 - 1918.750	-9.5	Pass
		1918.750 - 1917.500	-29.5	Pass
		0.009 - 1917.500 & 1932.500 - 19300.000	-39.5 / RSS-210 Clause 2.5	Pass
Highest	1928.448	1930.000 - 1931.250	-9.5	Pass
		1931.250 - 1932.500	-29.5	Pass
		0.009 – 1917.500 & 1932.500 - 19300.000	-39.5 / RSS-210 Clause 2.5	Pass

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.6.1 Radiated Emissions Configuration Photographs:

Worst Case Radiated Emission
at

Model L602 & 702: 3856.896 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

4.6.2 Radiated Emissions Data:

Data are included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data in table 1-9 list the significant emission frequencies, the limit and the margin of compliance.

Judgement:

Model L602: Passed by 2.9 dB margin for Adaptor Ten Pao
Model L702: Passed by 0.7 dB margin

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Transmission (with adaptor "Ten Pao")

Table 1

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Lowest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1919.850	-42.0	-9.5	-32.5
V	1917.869	-46.7	-29.5	-17.2
V	1917.101	-51.6	-39.5	-12.1
V	3843.072	-42.6	-39.5	-3.1
H	5764.608	-43.8	-39.5	-4.3
H	7686.144	-44.6	-39.5	-5.1
H	9607.680	-45.0	-39.5	-5.5
H	11529.216	-45.1	-39.5	-5.6

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Transmission (with adaptor "Ten Pao")

Table 2

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Highest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1930.013	-42.6	-9.5	-33.1
V	1931.686	-46.3	-29.5	-16.8
V	1933.471	-51.3	-39.5	-11.8
V	3856.896	-42.4	-39.5	-2.9
H	5785.344	-43.9	-39.5	-4.4
H	7713.792	-44.8	-39.5	-5.3
H	9642.240	-45.0	-39.5	-5.5
H	11570.688	-45.4	-39.5	-5.9

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Talk (with adaptor "Ten Pao")

Table 3

**Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements**

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	55.300	-63.6	-39.5	-24.1
V	115.653	-62.8	-39.5	-23.3
H	129.364	-62.9	-39.5	-23.4
H	164.587	-63.6	-39.5	-24.1
H	276.500	-63.2	-39.5	-23.7
H	331.800	-63.8	-39.5	-24.3

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Transmission (with adaptor "Sunstrong")

Table 4

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Lowest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1919.850	-41.9	-9.5	-32.4
V	1917.869	-46.7	-29.5	-17.2
V	1917.101	-51.7	-39.5	-12.2
V	3843.072	-42.7	-39.5	-3.2
H	5764.608	-44.0	-39.5	-4.5
H	7686.144	-44.6	-39.5	-5.1
H	9607.680	-45.0	-39.5	-5.5
H	11529.216	-45.3	-39.5	-5.8

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Transmission (with adaptor "Sunstrong")

Table 5

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Highest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1930.013	-42.4	-9.5	-32.9
V	1931.686	-46.3	-29.5	-16.8
V	1933.471	-51.6	-39.5	-12.1
V	3856.896	-42.6	-39.5	-3.1
H	5785.344	-43.9	-39.5	-4.4
H	7713.792	-44.8	-39.5	-5.3
H	9642.240	-45.0	-39.5	-5.5
H	11570.688	-45.4	-39.5	-5.9

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L602
Mode: Talk (with adaptor "Sunstrong")

Table 6

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	55.300	-63.5	-39.5	-24.0
V	115.653	-62.8	-39.5	-23.3
H	129.364	-63.2	-39.5	-23.7
H	164.587	-63.6	-39.5	-24.1
H	276.500	-63.3	-39.5	-23.8
H	331.800	-63.8	-39.5	-24.3

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L702
Mode: Transmission

Table 7

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Lowest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1919.850	-42.0	-9.5	-32.5
V	1917.869	-46.7	-29.5	-17.2
V	1917.101	-51.6	-39.5	-12.1
H	3843.072	-40.6	-39.5	-1.1
H	5764.608	-43.8	-39.5	-4.3
H	7686.144	-44.6	-39.5	-5.1
H	9607.680	-45.0	-39.5	-5.5
H	11529.216	-45.1	-39.5	-5.6

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L702
Mode: Transmission

Table 8

Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements

Highest Channel

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	1930.013	-42.6	-9.5	-33.1
V	1931.686	-46.3	-29.5	-16.8
V	1933.476	-51.3	-39.5	-11.8
H	3856.896	-40.2	-39.5	-0.7
H	5785.344	-43.9	-39.5	-4.4
H	7713.792	-44.8	-39.5	-5.3
H	9642.240	-44.9	-39.5	-5.4
H	11570.688	-45.4	-39.5	-5.9

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model: L702
Mode: Talk

Table 9

**Radiated Emissions Data
Pursuant To FCC Part 15 Section 15.323 (d) / RSS-213 Clause 6.7.1
Emissions Requirements**

Polarization	Frequency (MHz)	Measured Power (dBm)	Power Limit (dBm)	Margin (dB)
V	44.687	-63.8	-39.5	-24.3
V	136.023	-63.9	-39.5	-24.4
H	191.006	-63.0	-39.5	-23.5
H	256.589	-54.0	-39.5	-14.5
H	287.223	-54.9	-39.5	-15.4
H	316.450	-52.2	-39.5	-12.7
H	346.387	-62.9	-39.5	-23.4
H	378.498	-62.8	-39.5	-23.3

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.6.3 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29.0 dB is subtracted. The pulse desensitization factor of the spectrum analyzer is 0.0 dB, and the resultant average factor is -10.0 dB. The net field strength for comparison to the appropriate emission limit is 32.0 dB μ V/m. This value in dB μ V/m is converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0.0 dB
AV = -10 dB

$$FS = 62.0 + 7.4 + 1.6 - 29.0 + 0.0 + (-10.0) = 32.0 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(32.0 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.6.4 Average Factor Calculation and Transmitter ON Time Measurements, FCC Rule 15.35(b, c) / RSS-Gen cl 4.5

[] The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SPAN function on the analyzer was set to ZERO. The transmitter ON time was determined from the resultant time-amplitude display:

Please refer to the attached plots for more details:

The plots of Transmitter ON Time Measurements are as below.

[] Please refer to the attached transmitter timing diagram that are provided by manufacturer

[x] Not applicable - No average factor is required.

[] Please refer to Technical Description (descri.pdf) for more details

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.7 AC Power Line Conducted Emissions, FCC Rule 15.315 / RSS-213 Clause 6.3:

The AC power line conducted emission shall not exceed the limits of FCC Rule 15.207 / Table 4 in RSS-Gen Clause 7.2.4.

Measurements are made in accordance with ANSI C63.4 sub-clause 7. Emissions that are directly caused by digital circuits in the transmit path and transmitter portion are measured.

- Not applicable – EUT is only powered by battery for operation.
- EUT connects to AC power line. Emission Data is listed in following pages.
- Base Unit connects to AC power line and has transmission. Handset connects to AC power line (indirectly) but has no transmission. Emission Data of Base Unit is listed in following pages.
- Handset connects to AC power line (indirectly) only during charging. Emission Data is listed in following pages.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.7.1 AC Power Line Conducted Emissions Configuration Photographs:

Worst Case AC Power Line Conducted Emission
At

Model L702: 0.1545 MHz

The worst case AC power Line conducted emission configuration photographs are saved with filename: config photos.pdf

4.7.2 AC Power Line Conducted Emissions Data:

The plot(s) and data in the following pages list the significant emission frequencies, the limit and the worst case margin of compliance.

Judgment:

Model L602: Passed by more than 20 dB margin compared with quasi-peak limit for Adaptor Ten Pao

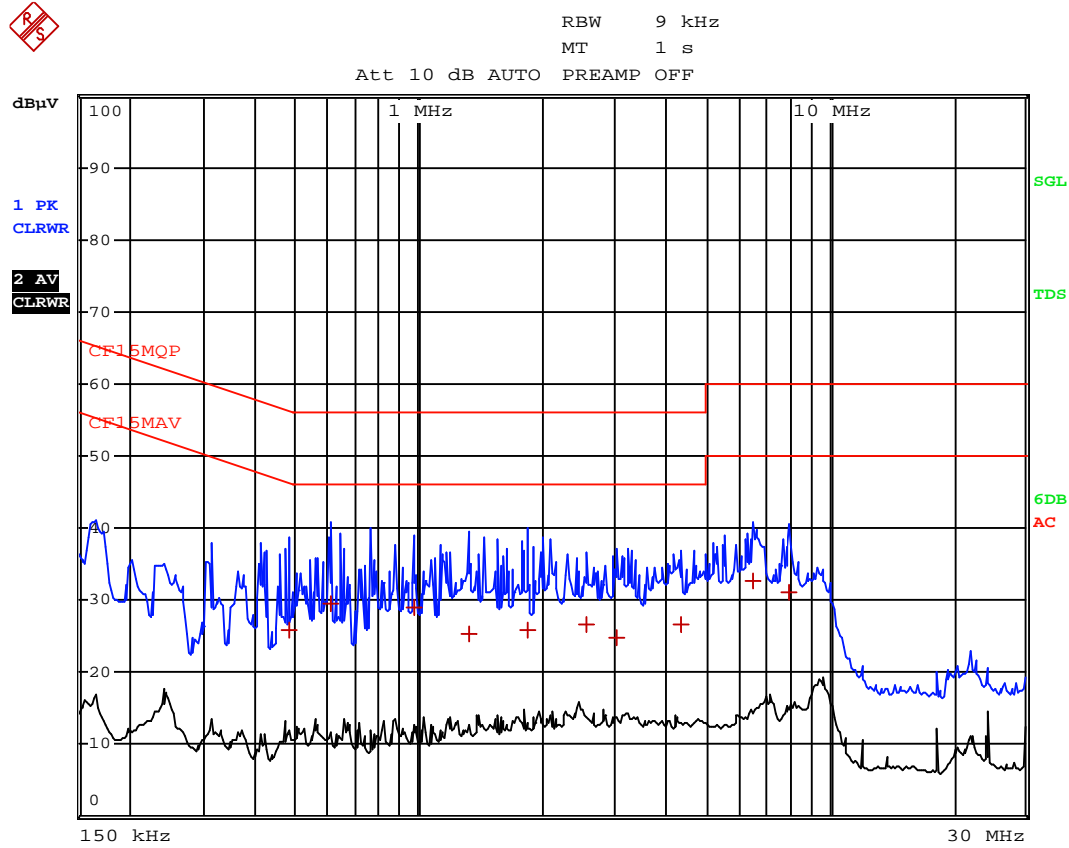
Model L702: Passed by 17.13 dB margin compared with quasi-peak limit

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model No.: L602
Worst Case: Talk (with adaptor "Ten Pao")



Date: 21.AUG.2013 15:39:42

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model No.: L602
Worst Case: Talk (with adaptor "Ten Pao")

EDIT PEAK LIST (Final Measurement Results)					
Trace1:		CF15MQP			
Trace2:		CF15MAV			
Trace3:		---			
	TRACE	FREQUENCY	LEVEL	dB μ V	DELTA LIMIT
1	Quasi Peak	483 kHz	25.91	N	-30.36
1	Quasi Peak	609 kHz	29.46	N	-26.53
1	Quasi Peak	978 kHz	29.00	N	-27.00
1	Quasi Peak	1.32 MHz	25.29	N	-30.71
1	Quasi Peak	1.8465 MHz	25.90	N	-30.09
1	Quasi Peak	2.5755 MHz	26.53	N	-29.46
1	Quasi Peak	3.021 MHz	24.74	N	-31.25
1	Quasi Peak	4.371 MHz	26.64	N	-29.35
1	Quasi Peak	6.4905 MHz	32.63	N	-27.36
1	Quasi Peak	8.007 MHz	31.04	N	-28.96

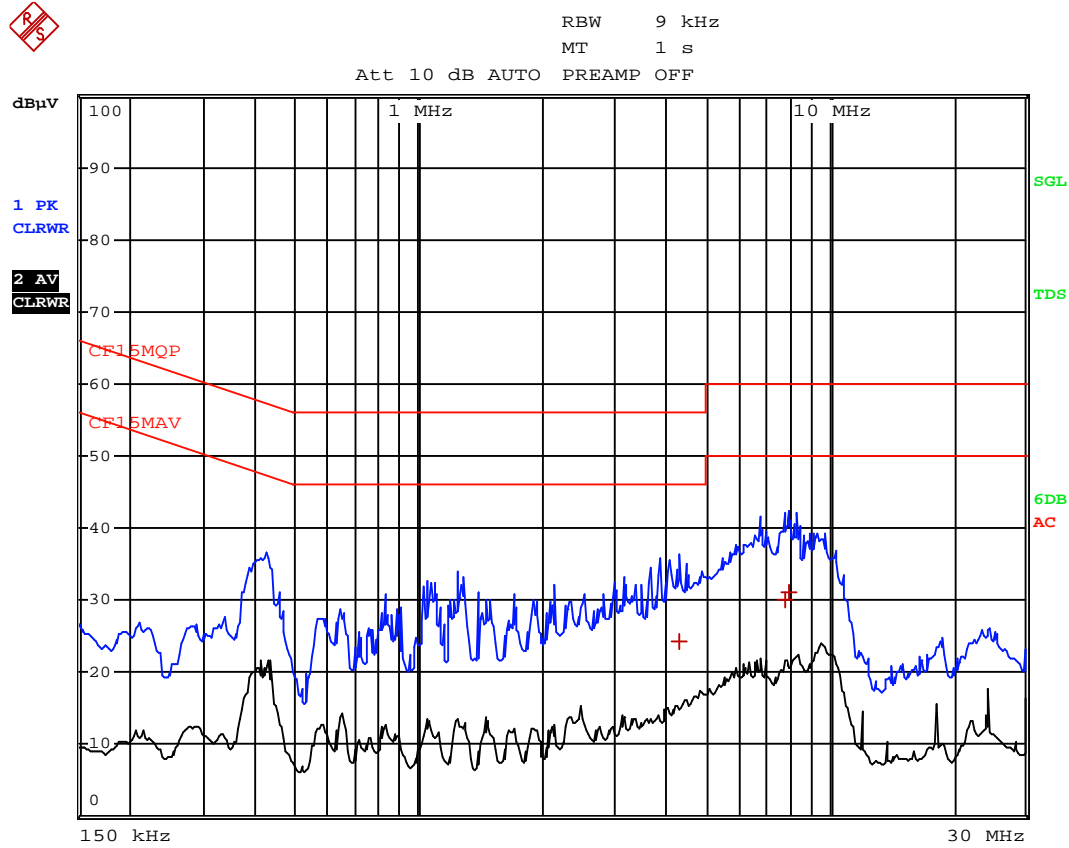
Date: 21.AUG.2013 15:38:09

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model No.: L602
Worst Case: Talk (with adaptor "Sunstrong")



Date: 21.AUG.2013 15:57:38

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model No.: L602
Worst Case: Talk (with adaptor "Sunstrong")

EDIT PEAK LIST (Final Measurement Results)					
TRACE		FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
1	Quasi Peak	4.3035 MHz	24.32	L1	-31.68
1	Quasi Peak	7.7865 MHz	30.15	L1	-29.84
1	Quasi Peak	8.0025 MHz	31.09	L1	-28.90

Date: 21.AUG.2013 15:57:07

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.

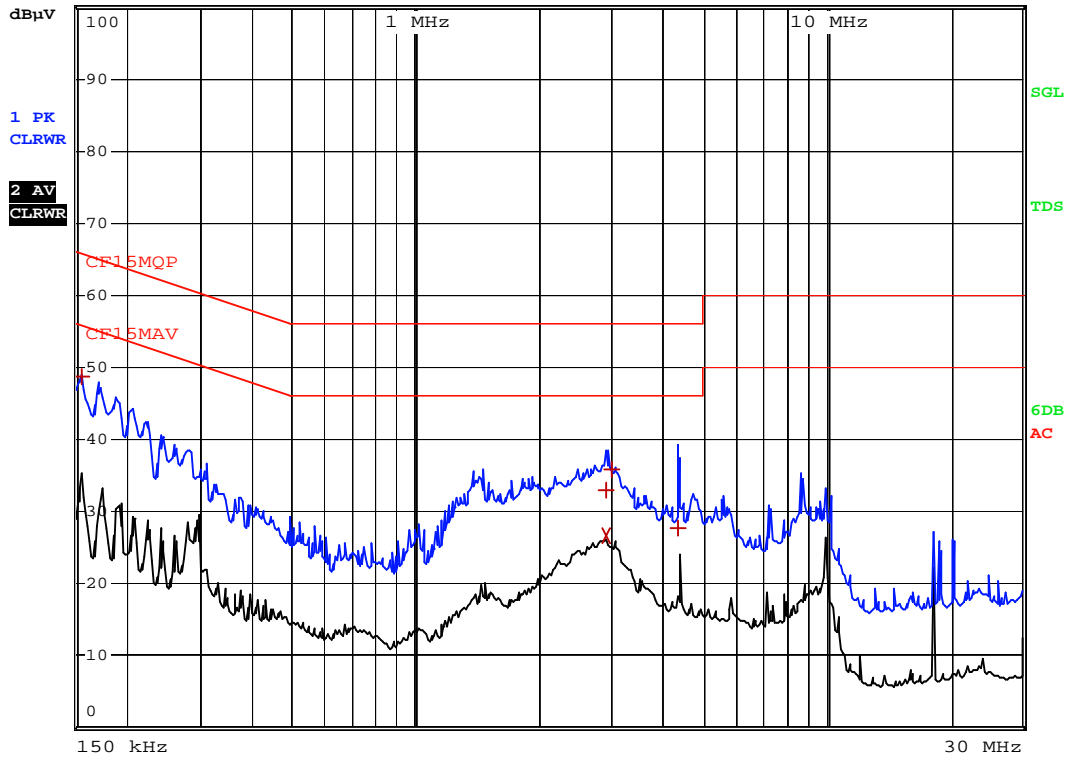


Model No.: L702
Worst Case: Talk



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 17.DEC.2013 16:55:07

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



Model No.: L702
Worst Case: Talk

EDIT PEAK LIST (Final Measurement Results)				
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
1 Quasi Peak	154.5 kHz	48.61	N gnd	-17.13
1 Quasi Peak	2.904 MHz	32.92	N gnd	-23.07
2 CISPR Average	2.913 MHz	26.55	N gnd	-19.44
1 Quasi Peak	3.0165 MHz	35.92	N gnd	-20.07
1 Quasi Peak	4.3575 MHz	27.72	N gnd	-28.27

Date: 17.DEC.2013 16:54:45

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.8 Frame Period and Jitter, FCC Rule 15.323(e) / RSS-213 Clause 4.3.4(c):

The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of EUT operating in these sub-bands shall be 20 ms or 10 ms/X where X is a positive whole number.

The jitter (time-related, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 μ s for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for EUT.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.2.3. Test setup is shown in section 3.2 Figure 3.2.1. A spectrum analyzer measures the time duration between the rising edges of two consecutive frames. The measurements are taken over 100,000 frames. These measurement values are used to compute mean value and the difference between any two consecutive frame periods. The mean value is the frame period.

Test Results:

I.

Measured Maximum Jitter (μ s)	Limit (μ s)	Result
-0.15	± 25	Pass

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



4.9 Monitoring Threshold:

For FCC, upper monitoring threshold limit is declared by manufacturer, and lower monitoring threshold limit is calculated with 20dB difference of upper monitoring threshold limit.

For IC, monitoring threshold can be relaxed according to RSS-213 Clause 4.3.4(b)(9). EUT that has a power output lower than the maximum permitted under RSS-213 Clause 6.5 may increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

Calculation of Monitoring Threshold Limit:

$$\begin{aligned} \text{Monitoring Threshold (T)} &\leq -174 + 10 \log_{10} B + M + P_{\max} - P_{\text{EUT}} \text{ dBm} \\ &\leq 15 \log_{10} B - 184 + M - P_{\text{EUT}} \text{ dBm} \end{aligned}$$

- Where B = Measured Emission Bandwidth or Occupied Bandwidth –
IC: 1.20MHz
 M = 30 dB for Lower Monitoring Threshold (T_L), or
= 50 dB for Upper Monitoring Threshold (T_U)
 P_{\max} = $5 \log_{10} B - 10$ dBm
 P_{EUT} = Measured Peak Transmit Power - IC: 19.32dBm

Monitoring Threshold Limits:

I.

	FCC	IC
Lower Monitoring Threshold ($T_L + U_M$) in dBm	-74.7	-76.1
Upper Monitoring Threshold ($T_U + U_M$) in dBm	-54.7	-56.1

NA - Not applicable

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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4.9.1 Lower Monitoring Threshold, FCC Rule 15.323(c)(2) /
RSS-213 Clause 4.3.4(b)(2):

- Not applicable – EUT which supports at least of 20 duplex system access channels for FCC and 40 duplex system access channels for IC and implements Least Interfered Channel (LIC) algorithm is permitted to use an upper monitoring threshold. Please refer to the section 4.14.2 for more details.
- The lower monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth used by EUT.

Measurements are made in accordance with ANSI C63.17 sub-clause 7.3.1. Test setup is shown in section 3.3 Figure 3.3.1. The test is performed on the carrier closest to center of the band. RF signal generators apply uniform CW interference on all EUT carriers each at level $T_L + U_M + 10$ dB. Then, the interference level is reduced uniformly on all carriers until the EUT can transmit. The interference level shall be lower than or equal to the threshold limit.

Test Results:

I.

Measured Maximum Interference Level (dBm)	Lower Monitoring Threshold Limit (dBm) ($T_L + U_M$)		Results
	FCC	IC	
NA	-54.7	-56.1	NA

NA - Not applicable

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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4.9.2 Least Interfered Channel, LIC, FCC Rule 15.323(c)(5) /
RSS-213 Clause 4.3.4(b)(5):

- Not implemented – EUT met lower monitoring threshold requirements. Please refer to the section 4.15.1 for more details
- If access to spectrum is not available as determined by section 4.14.1 and a minimum of 20 duplex system access channels (FCC) and 40 duplex system access channels (IC) are defined for the EUT, the time and spectrum windows with the lowest power level below a monitoring threshold of 50 dB above the thermal noise power determined for the emission bandwidth may be accessed

Number of duplex channels per frequency channel = 12
 Number of frequency channel = 5
 Total Duplex Channels = 60

Hence, the time and spectrum windows below upper monitoring threshold may be accessed.

4.9.2.1 Upper Monitoring Threshold, FCC Rule 15.323(c)(5) /
RSS-213 Clause 4.3.4(b)(5):

Measurements are made in accordance with ANSI C63.17 sub-clause 7.3.2. Test setup is shown in section 3.3 Figure 3.3.1. The test is performed on the carrier closest to center of the band. RF signal generators apply uniform CW interference on all EUT carriers each at level $T_U + U_M + 10$ dB. Then, the interference level is reduced uniformly on all carriers until the EUT can transmit. The interference level shall be lower than or equal to the threshold limit.

Test Results:

I.

Measured Maximum Interference Level (dBm)	Upper Monitoring Threshold Limit (dBm) ($T_U + U_M$)		Results
	FCC	IC	
-65.1	-74.7	-76.1	Pass

NA - Not applicable

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**EXHIBIT 5
EQUIPMENT LIST**

Issuing Laboratory:
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5.0 Equipment List

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna
Registration No.	EW-2500	EW-2188	EW-2512
Manufacturer	R&S	R&S	EMCO
Model No.	ESCI	FSP30	3104C
Calibration Date	Mar. 22, 2013	Nov. 5, 2012	Jun. 25, 2013
Calibration Due Date	Feb. 28, 2014	Feb. 5, 2014	Dec. 25, 2014

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna	Broad-Band Horn Antenna
Registration No.	EW-0446	EW-1015	EW-1679
Manufacturer	EMCO	EMCO	SCHWARZBECK
Model No.	3146	3115	BBHA9170
Calibration Date	Apr. 30, 2013	Mar. 5, 2013	Apr. 1, 2013
Calibration Due Date	Oct. 30, 2014	Sep. 5, 2014	Apr. 1, 2014

Equipment	Biconical Antenna
Registration No.	EW-0954
Manufacturer	EMCO
Model No.	3104C
Calibration Date	Apr. 30, 2013
Calibration Due Date	Oct. 30, 2014

2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN	Pulse Limiter
Registration No.	EW-2500	EW-0192	EW-0700
Manufacturer	R&S	R&S	R&S
Model No.	ESCI	ESH3-Z5	ESH3-Z2
Calibration Date	Mar. 22, 2013	May 15, 2013	Jul. 30, 2012
Calibration Due Date	Feb. 28, 2014	Apr. 15, 2014	Jan. 30, 2014

3) Conductive Measurement Test

Equipment	Coaxial directional coupler	Spectrum Analyzer	Digital Radiocommunication Tester for DECT
Registration No.	EW-2168	EW-2466	EW-1739
Manufacturer	MAGNA	R&S	R&S
Model No.	4222-16	FSP30	CMD60
Calibration Date	Nil*	Aug. 4, 2013	Aug. 8, 2013
Calibration Due Date	Nil*	Aug. 4, 2014	Jul. 6, 2014

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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3) Conductive Measurement Test (continued)

Equipment	Vector Signal Generator	Digital Multimeter
Registration No.	EW-2411	EW-1017
Manufacturer	R&S	FLUKE
Model No.	SMU200A	87-IV
Calibration Date	Apr. 12, 2013	Jun. 6, 2013
Calibration Due Date	Apr. 12, 2014	Jul. 6, 2014

END OF TEST REPORT