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TEST REPORT

Report Number: 20120648HKG-001

Application For Class II Permissive Change of 47 CFR Part 15 Certification Class II Permissive Change of RSS-213 Issue 3 Equipment Certification

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

(Base Unit)

FCC ID: EW780-2017-00

IC: 1135B-80201700

Prepared and Checked by: Approved by:

Signed On File Leung Chiu Kuen, Stanley Engineer

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Date: April 13, 2021





Conclusion:

GENERAL INFORMATION

Grantee:	VTech Telecommunications Ltd.
Grantee Address:	23/F., Tai Ping Industrial Centre, Block 1,
	57 Ting Kok Road, Tai Po,
	Hong Kong.
FCC Specification Standard:	FCC Part 15, October 1, 2019 Edition
FCC ID:	EW780-2017-00
FCC Model(s):	DLP73210, DLP73410, DLP73440, DLP73540, DLP73**0, IS7256-3,
	IS725*-**, BL103, BL103-2, BL103-3, B103-4, BL103-5, BL103-**,
	VS113, VS113-2, VS113-3, VS113-4, VS113-5, VS113-**
IC Specification Standard:	RSS-213 Issue 3, March 2015
	RSS-Gen Issue 5, April 2018
IC:	1135B-80201700
HVIN:	35-201292BS
VTech Model(s):	1. DLP73210, DLP73410, DLP73440, DLP73540
	2. IS7256-3
	3. BL103-1K, BL103-2K, BL103-3K, BL103-4K, BL103-5K
	4. VS113-1S, VS113-2S, VS113-3S, VS113-4S, VS113-5S
PMN:	1. DLP73210/DLP73410/DLP73440/DLP73540
	2. IS7256-3
	3. BL103-1K/BL103-2K/BL103-3K/BL103-4K/BL103-5K
	4. VS113-1S/VS113-2S/VS113-3S/VS113-4S/VS113-5S
Type of EUT:	Unlicensed Personal Communications Service Devices
Description of EUT:	DECT 6.0 Cordless Telephone with Bluetooth - Base Unit
Serial Number:	N/A
Sample Receipt Date:	December 14, 2020
Date of Test:	December 20, 2020 - March 26, 2021
Report Date:	April 13, 2021
Environmental Conditions:	Temperature: +10 to 40°C

Humidity: 10 to 90%

Issue 3 Certification.

Test was conducted by client submitted sample. The submitted

sample as received complied with the 47 CFR Part 15 / RSS-213



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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	5.5	15.323(a)	6.1.3	Pass	4.1	
Power Spectral Density	5.7	15.319(d)	6.1.5	Pass	4.2	
AC Power Line Conducted Emissions from EUT	5.4	15.315	7 *	Pass	4.5	

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	5.8.2	15.323(d)	6.1.6.1	Pass	4.3	
Emissions Outside the Sub- Band	5.8.1	15.323(d)	6.1.6.2	Pass	4.4	

1.2 Statement of Compliance

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

FCC Part 15, October 1, 2019 Edition RSS-213 Issue 3, March 2015 RSS-Gen Issue 5, April 2018



2.0 GENERAL DESCRIPTION

2.1 Product Description

The DLP73540 (35-201292BS) is a DECT 6.0 Cordless Telephone with Bluetooth - Base Unit. It operates at frequency range of 1921.536MHz to 1928.448MHz with 5 channels (1921.536MHz, 1923.264MHz, 1924.992MHz, 1926.720MHz and 1928.448MHz) and Bluetooth Transmitter operates with 79 channels (2402MHz - 2480MHz). The Base Unit is powered by an adaptor 100-240VAC 50/60Hz 0.15A, and it also has a Bluetooth transceiver that manages Bluetooth connections to a Bluetooth-equipped mobile device. With Bluetooth and 1.9GHz wireless communications enabled, the Base Unit allows user uses the cordless handset to make or receive cellular phone calls via the cellular network.

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

For FCC, the Model(s): DLP73210, DLP73410, DLP73440, DLP73**0, IS7256-3, IS725*-**, BL103, BL103-2, BL103-3, B103-4, BL103-5, BL103-**, VS113, VS113-2, VS113-3, VS113-4, VS113-5 and VS113-** are the same as the Model: DLP73540 in electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure as declared by client. The only differences between these models are model number, color, trade name, package type and number of handsets and chargers to be sold for marketing purpose as declared by client. Suffix ("*" in DLP73**0) indicates different number of handset and extra charger, and different package type or color of enclosure as declared by client. Suffix ("*" in IS725*-**) indicates different package type (material), different number of handset and extra charger, and different color of enclosure as declared by client. Suffix ("*" in BL103-** and VS113-**) indicates different number of handset and extra charger, and different package type (material) or color of enclosure as declared by client.

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.

2.2 Purpose of Change

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

2.3 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 (2014). The radiated emission measurements for intentional radiator contained in UPCS device, conducted emission measurements, Listen Before Transmit (LBT) tests, Time Frame and Frequency Stability tests were performed according to the test procedures specified in ANSI C63.17 (2013). All radiated measurements were performed in radiated emission test site. Preliminary scans were performed in the radiated emission test site 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 5 (2018).

2.4 Test Facility

The radiated emission 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 Intertek Testing Services Hong Kong Ltd., which is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong SAR, China. This test facility and site measurement data have been fully placed on file with FCC and Industry Canada.



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 Base Unit was powered by a 100-240VAC 50/60Hz 0.15A to 5.9VDC 0.6A or 100-240VAC 60Hz 0.15A to 6.0VDC 600mA 0.36W 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.

RF modules for base unit of DLP73540 is the same with original model DLP73540. Therefore conducted emission measurement for peak transmit power, jitter, frame repetition stability, carrier stability and listen before transmit requirements for DLP73540 are skipped.

As the base unit has 2 antennas, both have been checked. While conducting the test on one of antennas, another one was being disable its transmission. The data in this report represented the worst-case.

Bluetooth module was mounted onto the EUT and switched on when taking radiated emission for determining worst-case spurious emission.

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.

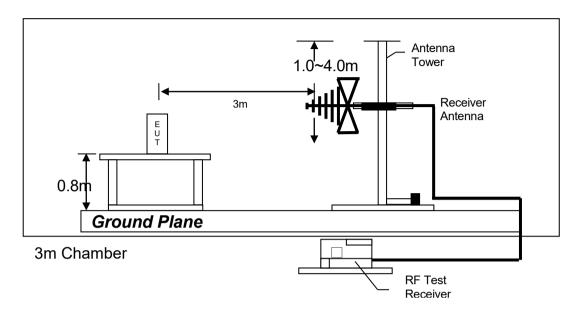
All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

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

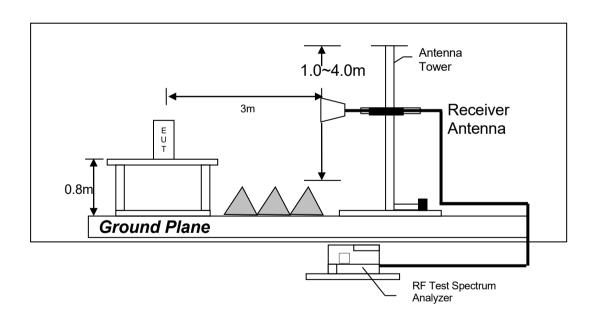


3.2 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

Figure 3.2.1



3.3 AC Line Conducted Emission Test Setup

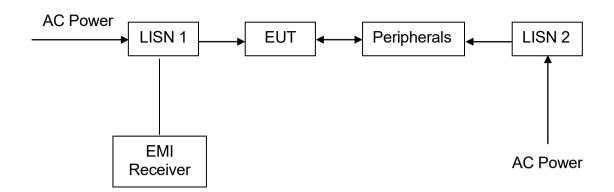


Figure 3.3.1



3.4 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 impendence 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.

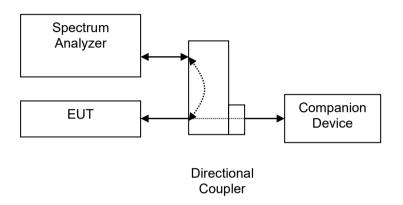


Figure 3.4.1

3.5 Conducted Monitoring and Operation Test Configuration

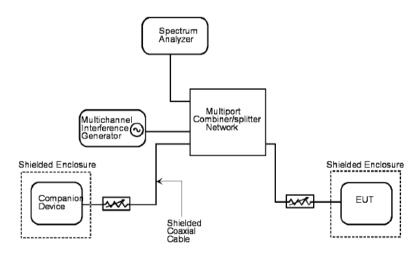


Figure 3.5.1

3.6 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.



3.7 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.

- (1) An AC adaptor (100-240VAC 60Hz 0.15A to 5.9VDC 0.6A, Model: A318-059060W-US1, Brand: AoHai) (Supplied by Client)
- (2) An AC adaptor (100-240VAC 60Hz 0.15A to 6.0VDC 600mA 0.36W, Model: VT05EUS06060, Brand: VTPL) (Supplied by Client)

Description of Accessories:

- (1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated (Supplied by Intertek)
- (2) Handset (Model: DL73540, FCC ID: EW780-2017-00) (Supplied by Client)

3.8 Measurement Uncertainty

Decision Rule for compliance: For FCC/IC standard, the measured value must be within the limits of applicable standard without accounting for the measurement uncertainty. For EN/IEC/HKTA/HKTC standard, conformity rules will be used as per standard directly excepted EN/IEC 61000-3-2, EN/IEC 61000-3-3, HKTA1004, HKCA1008, HKTA1019, HKTA1020, HKTA1041 and HKTA1044. For these excepted or not mentioned standards, Cl 4.2.2 of ILAC-G8:09/2019 decision rules will be reference and guard band will be equal to our measurement uncertainty with 95% confidence level (k=2). In case, the measured value is within guard band region, undetermined decision will be used. The values of the Measurement uncertainty for radiated emission test, AC line conducted emission test and RF conducted test, frequency stability and timing jitter are \pm 5.3dB, \pm 4.2dB, \pm 1dB, \pm 23Hz, 0.1 μ s respectively.

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.



4.0 MEASUREMENT RESULTS

4.1 Emission Bandwidth, FCC Rule 15.323(a) / RSS-213 Clause 5.5:

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 3.4 Figure 3.4.1.

Test Results:

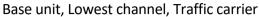
I. Base unit - Traffic Carrier

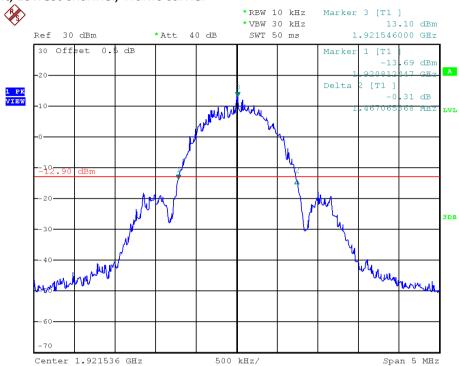
Channel	Channel Frequency (MHz)	Measuring Signal Level	Measured Emission Bandwidth (MHz)	Results
Lowest	1921.536	26 dB down	1.47	Pass
Highest	1928.448	26 dB down	1.49	Pass

The plots of emission bandwidth are saved as below.

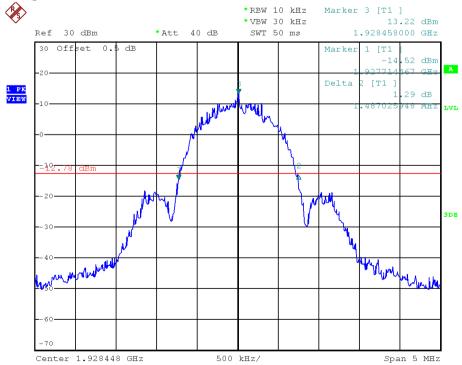


PLOTS OF EMISSION BANDWIDTH





Base unit, Highest channel, Traffic carrier





4.2 Power Spectral Density, FCC Rule 15.319(d) / RSS-213 Clause 5.7:

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 3.4 Figure 3.4.1.

Test Results:

I. Base unit - Traffic Carrier

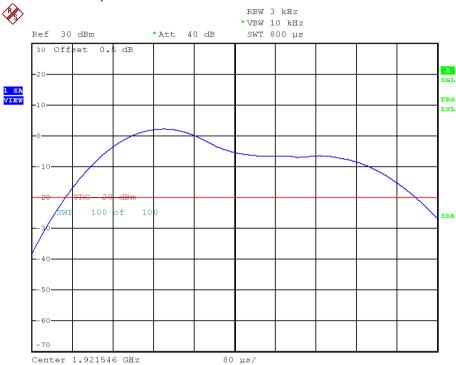
Channel	Channel Frequency (MHz)	Measured Power Spectral Density (dBm/3kHz)	Limit (dBm/3 kHz)	Results
Lowest	1921.536	-4.1	4.8	Pass
Highest	1928.448	-3.8	4.8	Pass

The plots of the power spectral density are as below.

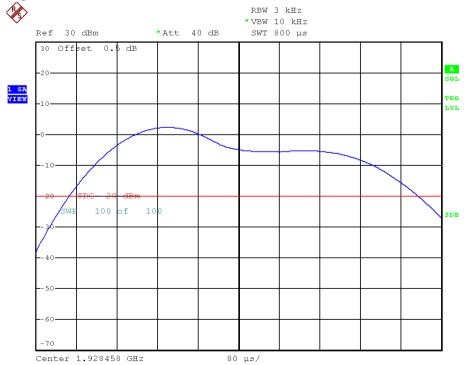


PLOTS OF THE POWER SPECTRAL DENSITY





Base unit, Highest channel, Traffic carrier





4.3 Unwanted Emission Inside the Sub-Band, FCC Rule 15.323(d) / RSS-213 Clause 5.8.2:

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 3*B* and the band edge, emission shall be at least 60 dB below the permitted peak transmit power.

Where B = emission bandwidth in Hz

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.1. Test setup is shown in section 3.4 Figure 3.4.1

Test Results:

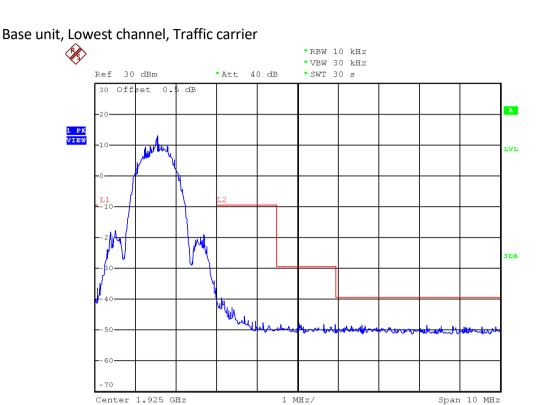
I. Base unit - Traffic Carrier

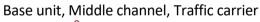
Channel	Channel Frequency (MHz)	Results
Lowest	1921.536	Pass
Middle	1924.992	Pass
Highest	1928.448	Pass

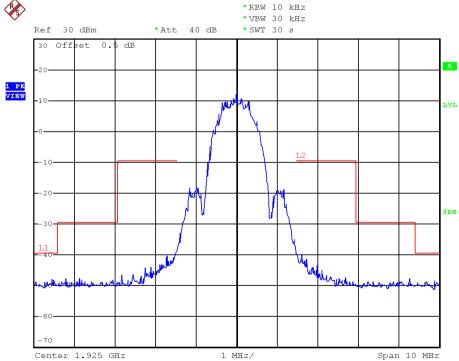
The plots of the unwanted emission inside the sub-band are as below.



PLOTS OF THE UNWANTED EMISSION INSIDE THE SUB-BAND

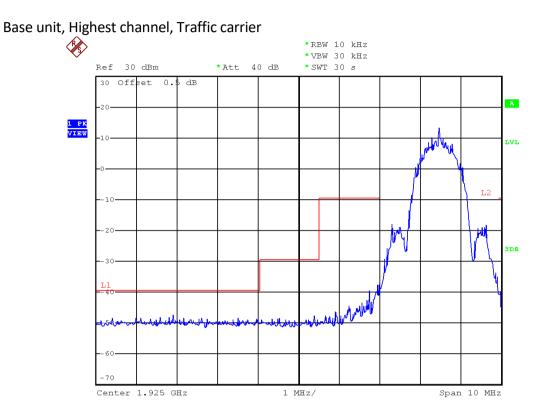








PLOTS OF THE UNWANTED EMISSION INSIDE THE SUB-BAND





4.4 Emissions Outside the Sub-Band, FCC Rule 15.323(d) / RSS-213 Clause 5.8.1:

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-Gen Clause 8.9.

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 setup is shown in section 3.2 Figure 3.2.1

Test Results:

Channel	Carrier Frequency (MHz)	Measured Band (MHz)	Limit (dBm)	Results
		1920.000 - 1918.750	-9.5	Pass
		1918.750 - 1917.500	-29.5	Pass
Lowest	Lowest 1921.536	0.009 - 1917.500 & 1932.500 - 19300.000	-39.5 / FCC Rule 15.209 / RSS-Gen Clause 8.9	Pass
		1930.000 - 1931.250	-9.5	Pass
	_	1931.250 - 1932.500	-29.5	Pass
Highest	1928.448	0.009 – 1917.500 & 1932.500 - 19300.000	-39.5 / FCC Rule 15.209 / RSS-Gen Clause 8.9	Pass



4.4.1 Radiated Emissions Configuration Photographs:

Worst Case Radiated Emission at

1917.150 MHz

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

4.4.2 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 1-4 list the significant emission frequencies, the limit and the margin of compliance.

Judgement:

Passed by 2.0 dB margin



RADIATED EMISSIONS DATA

Mode: Transmission with VTPL Adaptor

Table 1, Base Unit

Pursuant to FCC Part 15 Section 15.323 (d) / RSS-213 Clause 5.8.1 Emissions Requirements

Lowest Channel

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
V	1917.150	-41.5	-39.5	-2.0
V	1917.540	-40.3	-29.5	-10.8
V	1919.840	-26.9	- 9.5	-17.4
V	3843.071	-65.2	-39.5	-25.7
V	5764.607	-67.4	-39.5	-27.9
Н	7686.143	-63.6	-39.5	-24.1
Н	9607.679	-63.2	-39.5	-23.7
V	11529.215	-56.0	-39.5	-16.5
V	13450.751	-58.3	-39.5	-18.8

- 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.



Mode: Transmission with VTPL Adaptor

Table 2, Base Unit

Pursuant to FCC Part 15 Section 15.323 (d) / RSS-213 Clause 5.8.1 Emissions Requirements

Highest Channel

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
V	1934.060	-42.1	-39.5	-2.6
V	1932.350	-39.5	-29.5	-10.0
V	1930.460	-39.6	-9.5	-30.1
Н	3856.896	-63.9	-39.5	-24.4
Н	5785.344	-66.4	-39.5	-26.9
Н	7713.792	-63.7	-39.5	-24.2
Н	9642.240	-63.1	-39.5	-23.6
Н	11570.688	-57.1	-39.5	-17.6
Н	13499.136	-57.8	-39.5	-18.3

- 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.



Mode: Talk with VTPL Adaptor

Table 3, Base Unit

Pursuant to FCC Part 15 Section 15.323 (d) / RSS-213 Clause 5.8.1 Emissions Requirements

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
V	48.034	-75.9	-39.5	-36.4
V	60.100	-81.2	-39.5	-41.7
V	131.519	-73.3	-39.5	-33.8
Н	247.178	-75.8	-39.5	-36.3
V	414.756	-70.5	-39.5	-31.0
V	960.768	-63.4	-39.5	-23.9

- 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.



Mode: Talk with Ao Hai Adaptor

Table 4, Base Unit

Pursuant to FCC Part 15 Section 15.323 (d) / RSS-213 Clause 5.8.1 Emissions Requirements

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
V	48.034	-76.6	-39.5	-37.1
V	61.806	-81.6	-39.5	-42.1
V	131.519	-69.6	-39.5	-30.1
V	239.988	-76.0	-39.5	-36.5
Н	414.756	-68.1	-39.5	-28.6
Н	961.631	-65.7	-39.5	-26.2

- 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.



4.4.3 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 $FS = Field Strength in dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in dBμV

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.

 $RA = 62.0 dB\mu V$

AF = 7.4 dB

CF = 1.6 dB

AG = 29.0 dB

PD = 0.0 dB

AV = -10 dB

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

Level in $\mu V/m = Common Antilogarithm [(32.0 dB<math>\mu V/m)/20] = 39.8 \mu V/m$





4.4.4	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
[×]	Not applicable - No average factor is required.
[]	Please refer to Technical Description (descri.pdf) for more details



Test setup is shown in section 3.3 Figure 3.3.1.

TEST REPORT

4.5 AC Power Line Conducted Emissions, FCC Rule 15.315 / RSS-213 Clause 5.4:

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.



4.5.1 AC Power Line Conducted Emissions Configuration Photographs:

Worst Case AC Power Line Conducted Emission at

321 kHz

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

4.5.2 AC Power Line Conducted Emissions Data:

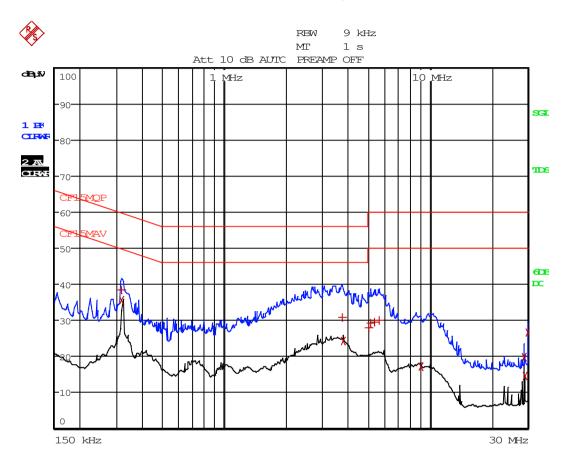
The plot(s) and data in the following pages list the significant emission frequencies, the limit and the worst case margin of compliance.

Judgment:

Passed by 13.98 dB margin compared with CISPR average limit



Worst Case: Talk with VTPL Adaptor



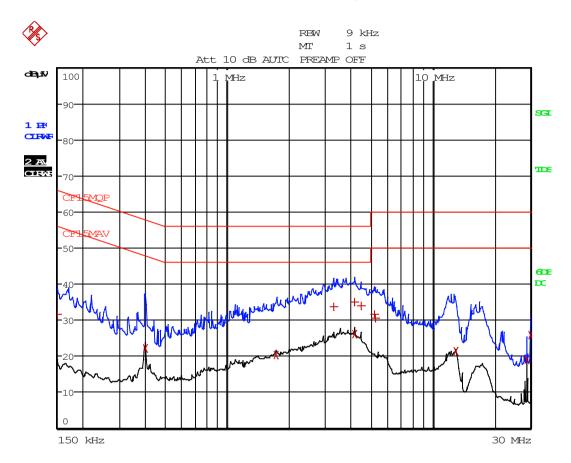


Worst Case: Talk with VTPL Adaptor

	<u> </u>	Measurement Resul	.ts)
Tracel:	CF15MQP		
Trace2:	CF15MAV		
Trace3:			
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	316.5 kHz	38.37 N	-21.42
2 CISPR Averag	€321 kHz	35.69 L1	-13.98
1 Quasi Peak	3.7725 MHz	30.73 N	-25.26
2 CISPR Averag	€3.777 MHz	24.33 L1	-21.66
1 Quasi Peak	5.055 MHz	28.01 N	-31.98
1 Quasi Peak	5.1765 MHz	29.21 L1	-30.78
1 Quasi Peak	5.4015 MHz	29.53 N	-30.46
1 Quasi Peak	5.703 MHz	29.93 L1	-30.06
2 CISPR Averag	€9.0825 MHz	17.23 L1	-32.76
2 CISPR Averag	€28.6395 MHz	19.68 N	-30.31
2 CISPR Averag	€28.9995 MHz	14.43 L1	-35.56
2 CISPR Averag	€29.9985 MHz	26.59 N	-23.40



Worst Case: Talk with Ao Hai Adaptor





Worst Case: Talk with Ao Hai Adaptor

EDI'	r PEAK LIST (Final	Measurement Resul	_ts)
Tracel:	CF15MQP		
Trace2:	CF15MAV		
Trace3:			
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT &B
1 Quasi Peak	150 kHz	31.66 N	-34.33
2 CISPR Averag	€397.5 kHz	22.19 L1	-25.71
2 CISPR Averag	€1.725 MHz	20.24 N	-25.75
1 Quasi Peak	3.309 MHz	33.85 L1	-22.14
1 Quasi Peak	4.1955 MHz	34.92 L1	-21.07
2 CISPR Averag	4.1955 MHz	25.99 N	-20.00
1 Quasi Peak	4.506 MHz	33.98 L1	-22.01
1 Quasi Peak	5.1945 MHz	31.52 N	-28.47
1 Quasi Peak	5.271 MHz	30.67 N	-29.32
2 CISPR Averag	€12.9975 MHz	21.34 N	-28.65
2 CISPR Averag	€28.6395 MHz	19.11 N	-30.88
2 CISPR Averag	€29.9985 MHz	25.77 N	-24.22



5.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	BiConiLog Antenna (30MHz - 6GHz)
Registration No.	EW-3156	EW-2466	EW-3408
Manufacturer	ROHDESCHWARZ	R&S	EMCO
Model No.	ESR26	FSP30	
Calibration Date	September 30, 2020	September 05, 2020	October 25, 2020
Calibration Due Date	September 30, 2021	September 05, 2021	October 25, 2021

Equipment	14m Double Shield RF Cable (20MHz - 6GHz)	High Frequency Coaxial Cable Assembly (4 pcs)	Double Ridged Guide Antenna
Registration No.	EW-2074	EW-2107	EW-0194
Manufacturer	RADIALL	RADIALL	EMCO
Model No.		SMA(m)-SHF5MPU-	3115
		SMA(m) R.A 14m	
Calibration Date	August 29, 2020	July 03, 2020	September 26, 2019
Calibration Due Date	August 29, 2021	July 03, 2021	March 26, 2021

Equipment	Notch Filter (cutoff frequency 1.9GHz to 2.0GHz)
Registration No.	EW-23620
Manufacturer	MITRON
Model No.	N0319502
Calibration Date	August 29, 2020
Calibration Due Date	August 29, 2021

2) Conducted Emissions Test

Equipment	EMI Test Receiver	RF Cable 80cm (RG142) (9kHz to 30MHz)	LISN
Registration No.	EW-3156	EW-2452	EW-2501
Manufacturer	ROHDESCHWARZ	RADIALL	R&S
Model No.	ESR26	bnc m st / 142 / bnc m st	ENV-216
		80cm	
Calibration Date	September 30, 2020	November 10, 2020	September 11, 2020
Calibration Due Date	September 30, 2021	November 10, 2021	September 11, 2021



3) Conductive Measurement Test

o, conductive measur			
Equipment	Coaxial Directional	Spectrum Analyzer	Digital
	Coupler		Radiocommunication
			Tester for DECT
Registration No.	EW-2337	EW-2466	EW-1739
Manufacturer	MAGNA	R&S	ROHDESCHWARZ
Model No.	4222-16	FSP30	CMD60
Calibration Date	Nil*	September 05, 2020	June 17, 2020
Calibration Due Date	Nil*	September 05, 2021	June 17, 2021

Equipment	Vector Signal Generator	Temperature & Humidity Chamber	Digital Multimeter
Registration No.	EW-3457	EW-2134	EW-0519
Manufacturer	R&S	GIANT FORCE	FLUKE
Model No.	SMBV100B	GTH-750-40-CP-SD	77-3
Calibration Date	February 25, 2020	September 18, 2019	February 26, 2020
Calibration Due Date	May 25, 2021	September 18, 2021	August 15, 2021

END OF TEST REPORT