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TEST REPORT

Report Number: 16110235HKG-001

Application
for
Original Grant of 47 CFR Part 15 Certification
New Family of RSS-247 Issue 1 Equipment Certification

Video Monitor - Baby Unit


FCC ID: EW780-0617-00

IC: 1135B-80061700

Prepared and Checked by:

Approved by:


Koo Wai Ip
Assistant Supervisor


Chan Chi Hung, Terry
Senior Supervisor
November 21, 2016

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2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2785 5487 Website: www.hk.intertek-etlsemko.com

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GENERAL INFORMATION

Applicant Name:	VTech Telecommunications Ltd.
Applicant 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, 2015 Edition
FCC ID:	EW780-0617-00
FCC Model(s):	VM3251 BU, VM3251-2 BU, VM3x51-ab BU, VM3211, VM3211-ab
IC Specification Standard:	RSS-247 Issue 1, May 2015 RSS-Gen Issue 4, December 2014
IC:	1135B-80061700
HVIN:	VM3251 BU, VM3251-2 BU, VM3211
PMN:	Video monitor
Type of EUT:	Spread Spectrum Transmitter
Description of EUT:	Video Monitor - Baby Unit
Serial Number:	N/A
Sample Receipt Date:	November 04, 2016
Date of Test:	November 09, 2016
Report Date:	November 21, 2016
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

Test Items	FCC Part 15 Section	RSS-247/ RSS-Gen# Section	Results	Details see section
Antenna Requirement	15.203	8.3 [#]	Pass	2.1
Max. Conducted Output Power	15.247(b)(1) & (4)	5.4(2)	Pass	4.1
Max. 20dB RF Bandwidth	N/A	5.1(1)	N/A	4.2
Min. No. of Hopping Frequencies	15.247(a)(1)(iii)	5.1(4)	Pass	4.3
Min. Hopping Channel Carrier Frequency Separation	15.247(a)(1)	5.1(2)	Pass	4.4
Average Time of Occupancy	15.247(a)(1)(iii)	5.1(4)	Pass	4.5
Out of Band Antenna Conducted Emission	15.247(d)	5.5	Pass	4.6
Radiated Emission in Restricted Bands and Spurious Emissions	15.247(d)	8.10 [#]	Pass	4.8
AC Power Line Conducted Emission	15.207 & 15.107	8.8 [#]	Pass	4.9

Note: Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

1.2 Statement of Compliance

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

FCC Part 15, October 1, 2015 Edition
RSS-247 Issue 1, May 2015
RSS-Gen Issue 4, November 2014



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EXHIBIT 2 GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a Video Monitor - Baby Unit of Video Baby Monitor. It operates at frequency range of 2405MHz to 2475MHz. There are totally 32 non-overlapping channels with 2MHz channel separation and 16 active channels out of the 32 channels. The EUT is powered by a 100-240VAC to 6.0VDC 0.5A AC adaptor.

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

For FCC, the Model(s) VM3251-2 BU, VM3x51-ab BU, VM3211 and VM3211-ab are the same as model VM3251 BU in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color and model number to be sold for marketing purpose. Suffix (a, b, x) indicates different type packaging, different number of baby unit and different color of enclosure.

For IC, the Model(s): VM3251-2 BU and VM3211 are the same as the Model: VM3251 BU in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color and model number to be sold for marketing purpose.

The circuit description and frequency hopping algorithm are attached in the Appendix and saved with filename: descri.pdf.

2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2014). Preliminary radiated scans and all radiated measurements were performed in radiated emission test sites. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. Antenna port conducted measurements were performed according to ANSI C63.10 (2013). All other measurements were made in accordance with the procedures in 47 CFR Part 2.

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2.3 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. This test facility and site measurement data have been fully placed on file with FCC and Industry Canada No. 2042V.



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EXHIBIT 3 SYSTEM TEST CONFIGURATION

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3.0 **System Test Configuration**

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit / receive continuously 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 100-240VAC to 6.0VDC 0.5A adaptor.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the base unit attached to peripherals, they were connected and operational (as typical as possible). The parent unit was remotely located as far from the antenna and the base as possible to ensure full power transmission from the baby unit. Else, the base was wired to transmit full power with modulation.

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. Radiated emissions were 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 any intentional radiator powered by AC power line, measurements of the radiated signal level of the fundamental frequency component of the emission was performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

For transmitter radiated measurement, the spectrum analyzer resolution bandwidth was 100 kHz for frequencies below 1000 MHz. The resolution bandwidth was 1 MHz for frequencies above 1000 MHz.

Radiated emission measurement for 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. Receiver was performed from 30MHz to the fifth harmonic of the highest frequency or 40GHz, whichever is lower.

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3.1 Justification - Cont'd

Emission that are directly caused by digital circuits in the transmit path and transmitter portion were measured, and the limit are according to FCC Part 15 Section 15.109.

Detector function for radiated emissions was in peak mode. Average readings, when required, were taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 4.8.3.

Determination of pulse desensitization was made according to *Hewlett Packard Application Note 150-2, Spectrum Analysis... Pulsed RF*. The effective period (Teff) was referred to Exhibit 4.8.3. With the resolution bandwidth 1MHz and spectrum analyzer IF bandwidth 3dB, the pulse desensitization factor was 0dB.

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 EUT Exercising Software

The EUT exercise program 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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3.3 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor and/or a battery (provided with the unit) was used to power the device. Their description are listed below.

- (1) An AC adaptor (100-240VAC to 6.0VDC 0.5A, Model: S003GU0600050) (Supplied by Client)

Description of Accessories:

- (1) Parent Unit, Model: VM3251 PU, FCC ID: EW780-0617-01 (Supplied by Client)

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test at a level of confidence of 95% has been considered. The values of the Measurement uncertainty for radiated emission test and RF conducted measurement test are $\pm 5.3\text{dB}$ and $\pm 0.99\text{dB}$ respectively. The value of the Measurement uncertainty for conducted emission test is $\pm 4.2\text{dB}$.

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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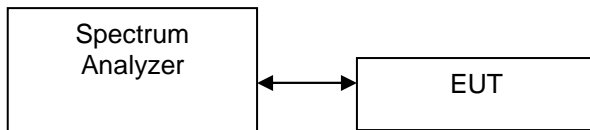
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4.0 Test Results

RF Conducted measurement Test Setup by a Spectrum Analyzer.

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



4.1 Maximum Conducted (peak) Output Power at Antenna Terminals

- The antenna power of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.
- The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set for RBW>20dB bandwidth and power was read directly in dBm. External attenuation and cable loss were compensated for using the OFFSET function of the analyzer.

(Baby Unit) Antenna Gain = 0 dBi		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2405	17.70	58.884
Middle Channel: 2441	17.49	56.105
High Channel: 2475	17.24	52.966

Cable loss : 0.5 dB External Attenuation : 0 dB

Cable loss, external attenuation: included in OFFSET function
 added to SA raw reading

dBm max. output level = 17.70 dBm

Limits:

- 0.125W (21dBm) for antennas with gains of 6dBi or less
- 0.25W (24dBm) for antennas with gains of 6dBi or less
- 1W (30dBm) for antennas with gains of 6dBi or less
- ___W (___dBm) for antennas with gains more than 6dBi

The plots of conducted output power are saved as below.

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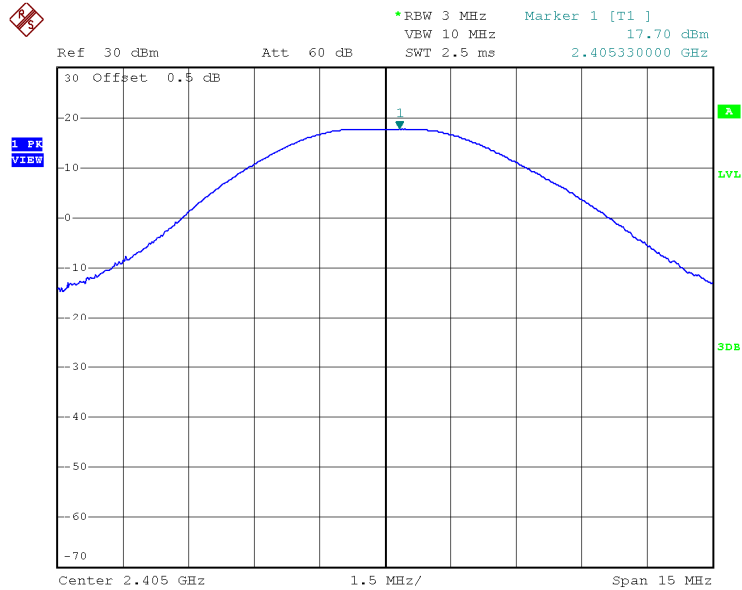
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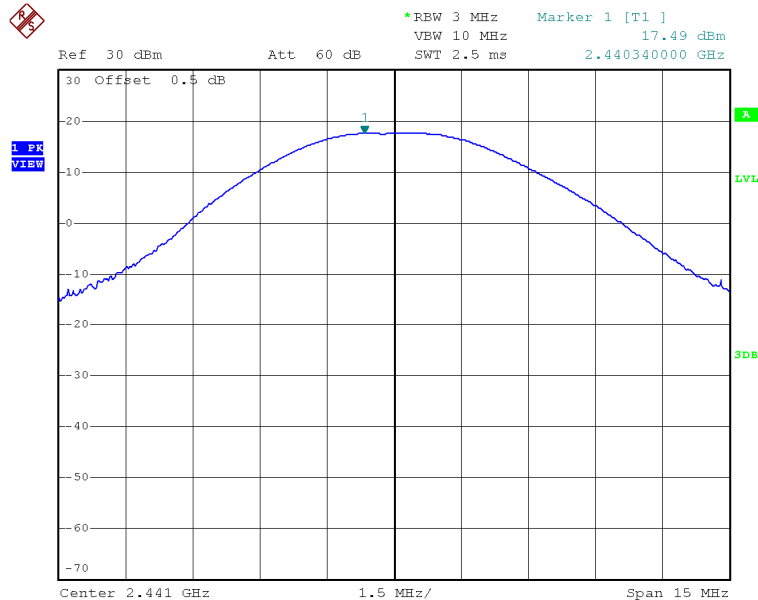
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Plots of conducted output power Lowest Channel



Middle Channel





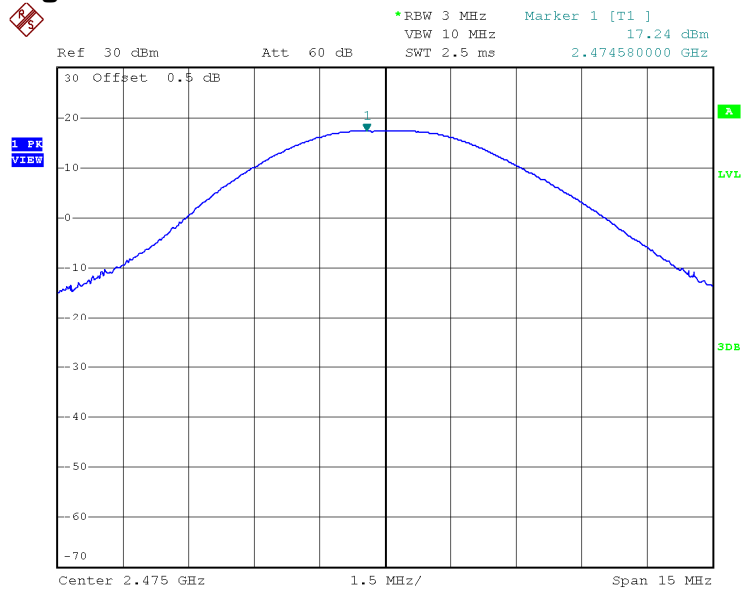
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Plots of conducted output power
Highest Channel





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4.2 Maximum 20 dB RF Bandwidth

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 20 dB lower than PEAK level. The 20 dB bandwidth was determined from where the channel output spectrum intersected the display line.

Baby Unit	
Frequency (MHz)	20 dB Bandwidth (kHz)
Low Channel: 2405	2490
Middle Channel: 2441	2490
High Channel: 2475	2470

Limits

- ≤500kHz for 902-928MHz
- N/A for 2400-2483.5MHz
- ≤1MHz for 5725-5850MHz

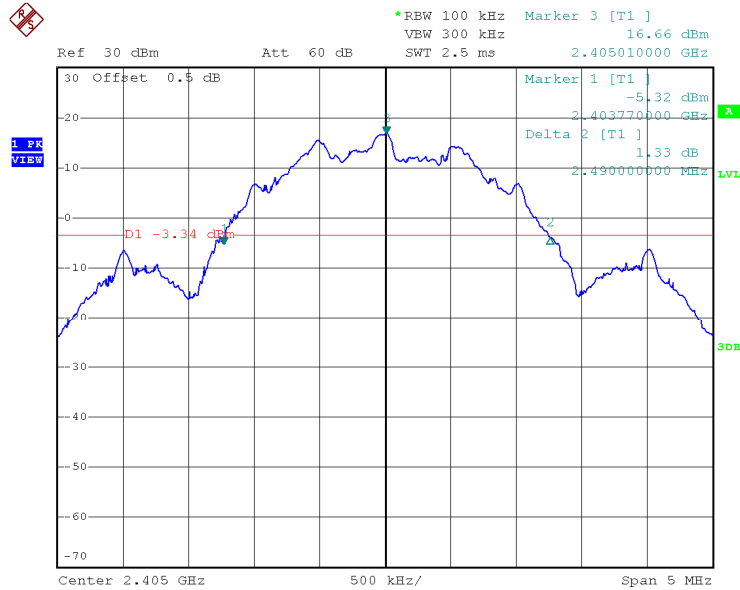
The plots of 20dB RF bandwidth are saved as below.

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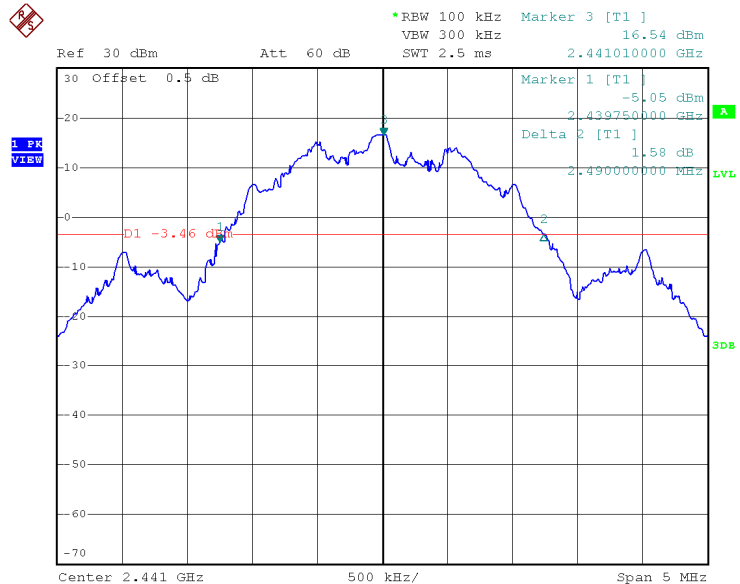
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Plots of 20dB RF bandwidth Lowest Channel



Middle Channel

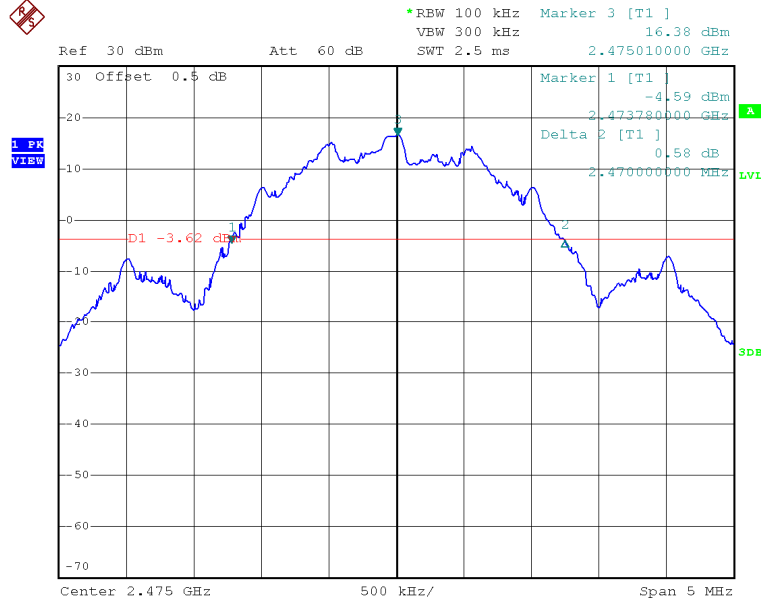


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Plots of 20dB RF bandwidth Highest Channel





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4.3 Minimum Number of Hopping Frequencies

With the analyzer set to MAX HOLD readings were taken for 2-3 minutes in each band. The channel peaks so recorded were added together, and the total number compared to the minimum number of channels required in the regulation.

Baby Unit	
No. of hopping channels	16

Minimum Requirements:

- at least 50 hopping channels for 902MHz-928MHz (20 dB bandwidth of hopping channel < 250kHz)
- at least 25 hopping channels for 902MHz-928MHz (20 dB bandwidth of hopping channel ≥ 250kHz)
- at least 15 hopping channels for 2400MHz-2483.5MHz.
- at least 75 hopping channels for 5725MHz-5850MHz.

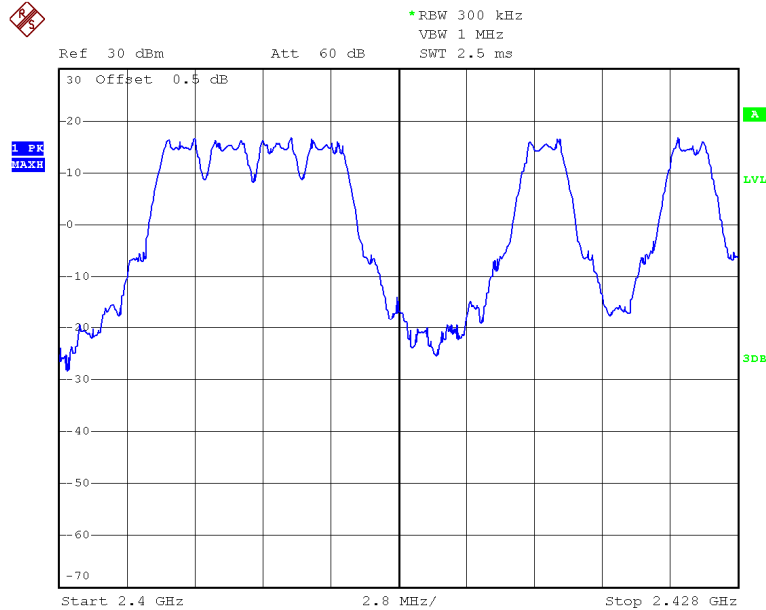
The plots of number of hopping frequencies are saved as below.

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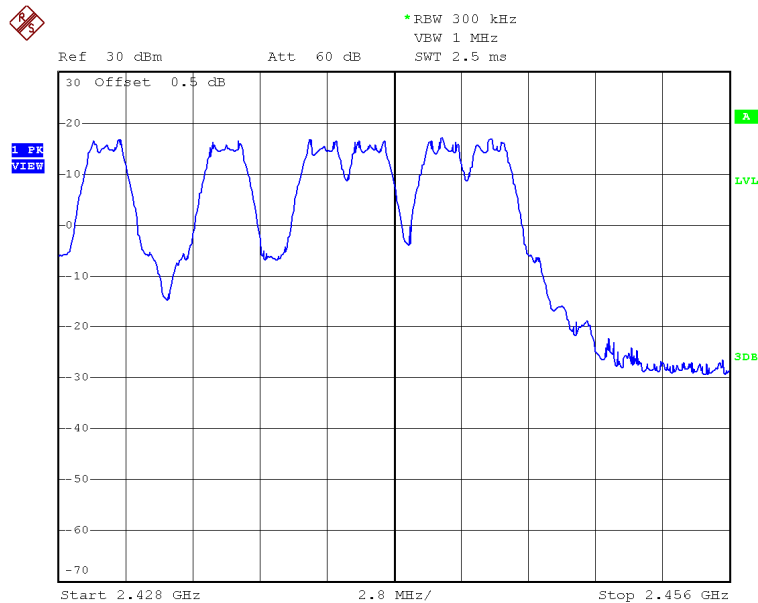
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Plots of Number of Hopping Frequencies Plot A



Plot B

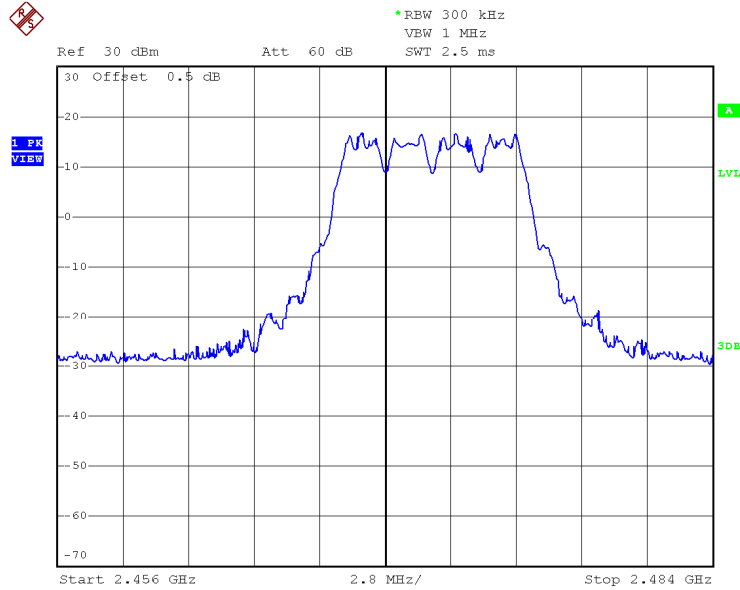


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Plots of Number of Hopping Frequencies Plot C





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4.4 Minimum Hopping Channel Carrier Frequency Separation

Using the DELTA MARKER function of the analyzer, the frequency separation between two adjacent channels was measured and met the requirement.

Baby Unit	
Channel Separation (Channel 1 and Channel 2)	2016

Limits:

The channel separation must be larger than:

- 25 kHz
- 20 dB bandwidth of hopping channel: ___Hz
- 2/3 of 20dB bandwidth of hopping channel: 1660 kHz

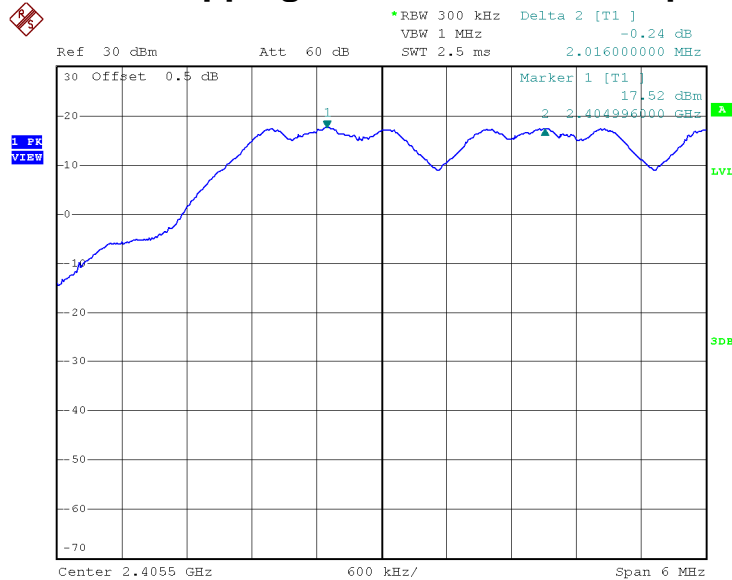
The plot(s) of hopping channel carrier frequency separation is saved as below.

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Plots of Hopping Channel Carrier Frequency Separation





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4.5 Average Channel Occupancy Time

The spectrum analyzer center frequency was set to one of the known hopping channels. The SWEEP was set to 1ms, the SPAN was set to ZERO SPAN, and the TRIGGER was set to VIDEO. The time duration of the transmission so captured was measured with the MARKER DELTA function.

The SWEEP was then set to the time required by the regulation (20 seconds for 902-928 MHz devices, if the 20dB bandwidth is less than 250kHz, 10 seconds for 902-928 MHz if the 20dB bandwidth is or greater than 250kHz, "0.4 seconds x Number of hopping channels employed" seconds for 2400-2483.5 MHz, 30 seconds for 5725-5850 MHz). The analyzer was set to SINGLE SWEEP, the total ON time was added and compared against the limit (0.4 seconds).

Baby Unit (worst-case: 1 parent unit operation)	
Average Occupancy Time (Traffic – in a clear RF environment) =	1.1088ms x 49 x 6.4 = 347.72ms

Limits:

Average 0.4 seconds maximum occupancy in:

- 6.4 seconds (0.4 sec. x 16) for 2400MHz-2483.5MHz
(Traffic – in a clear RF environment)
- 20 seconds for 902MHz-928MHz ≥ 50 hopping channels
- 10 seconds for 902MHz-928MHz ≥ 25 hopping channels
- 30 seconds for 5725-5850MHz

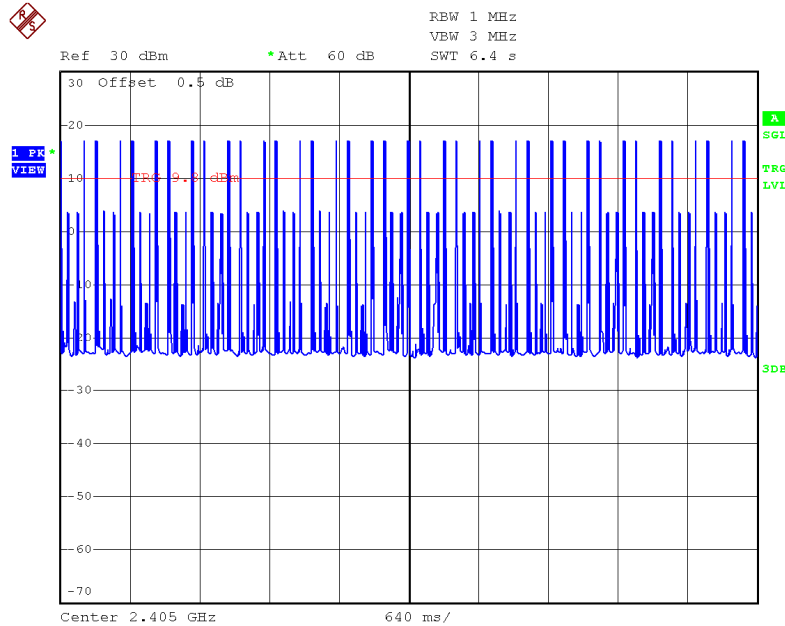
The plots of average channel occupancy time are saved as below.

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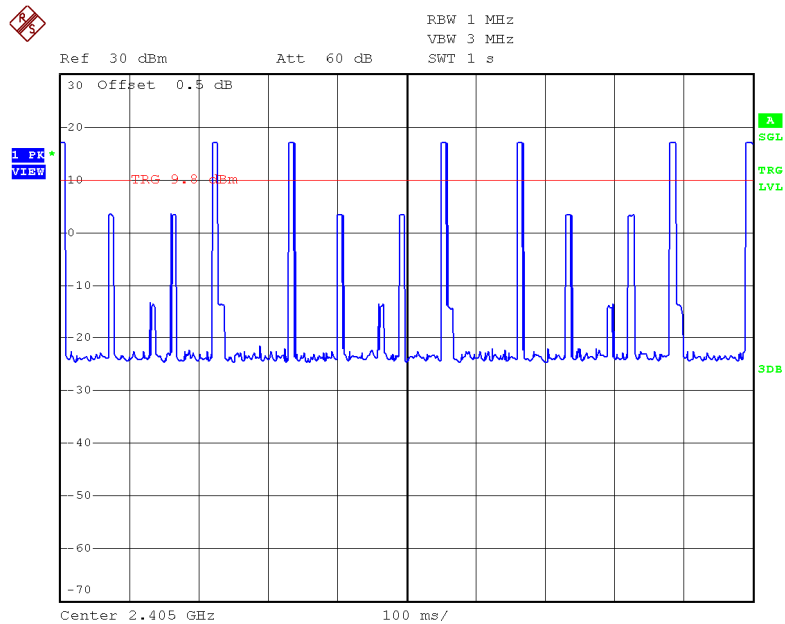
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Plots Average Channel Occupancy Time Plot A



Plot B

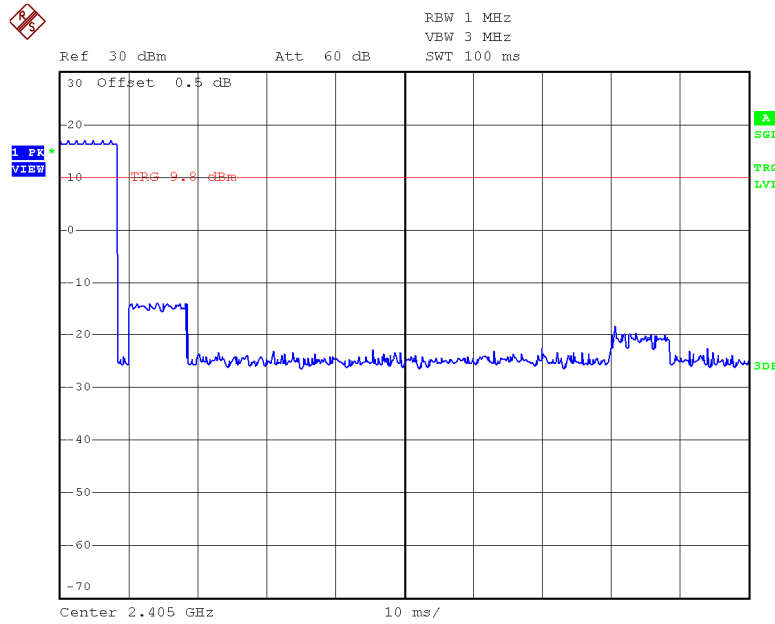


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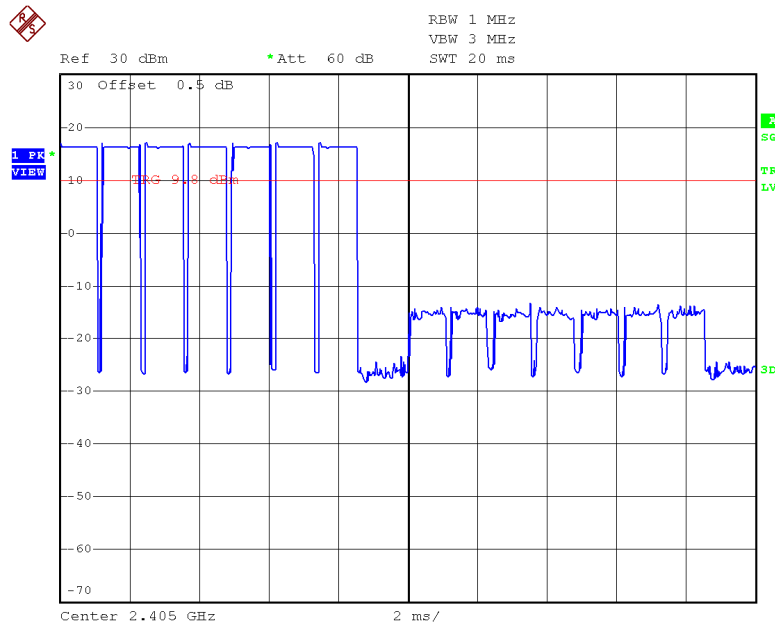
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Plots Average Channel Occupancy Time Plot C



Plot D

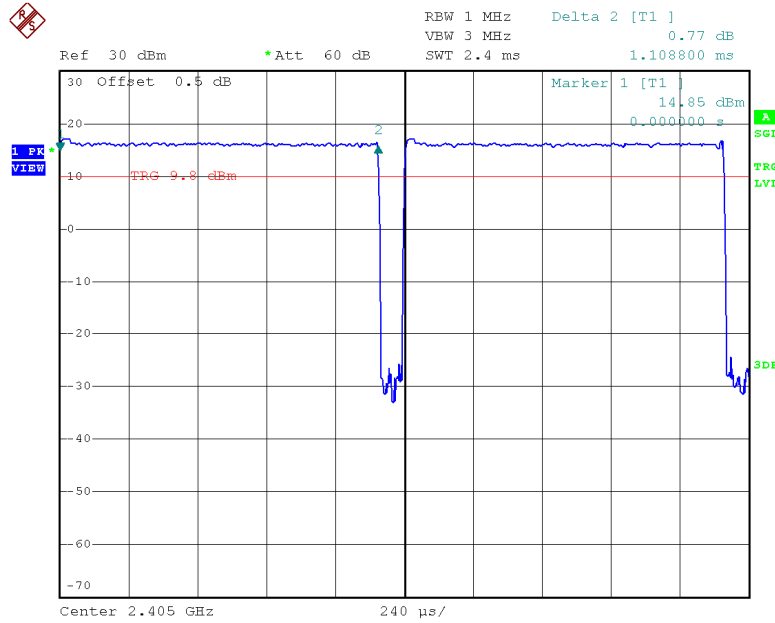


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Plot E





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4.6 Out of Band Conducted Emissions

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission.

The plot(s) of bandedge compliance is shown the worst-case which has been already considered between enable and disable the hopping function of the EUT.

Furthermore, delta measurement technique for measuring bandedge emissions was incorporated in the test of the edge at 2483.5MHz.

Limits:

All spurious emission and up to the tenth harmonic was measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

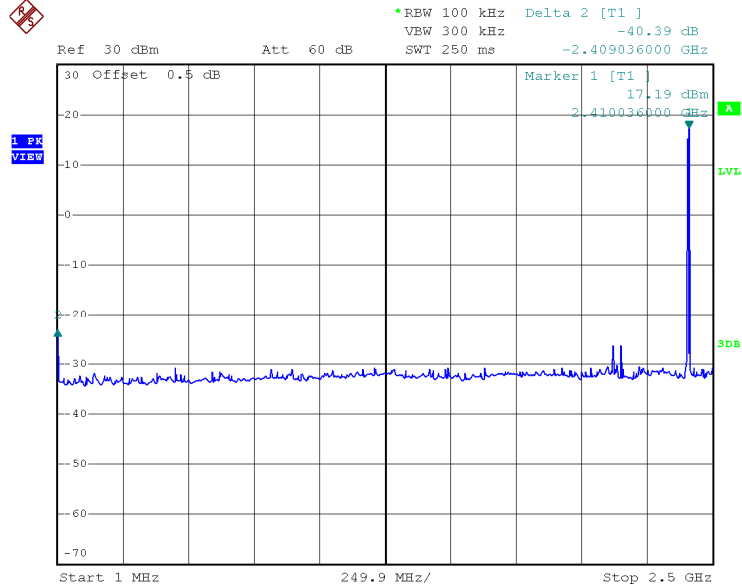
The plots of out of band conducted emissions are saved as below.

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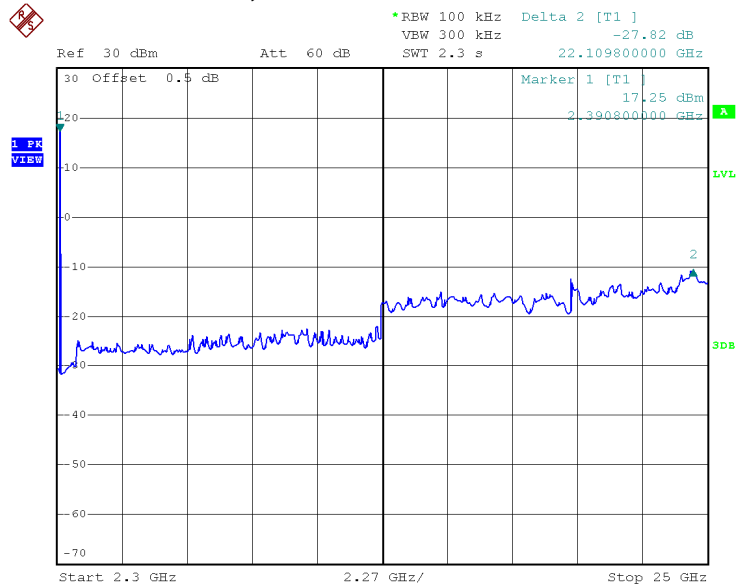
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Plots of Out of Band Conducted Emissions Lowest Channel, Plot 1



Lowest Channel, Plot 2

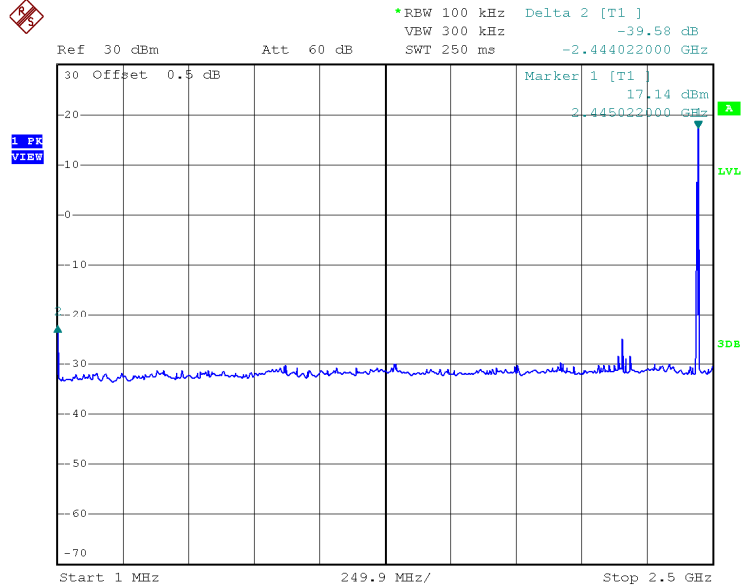


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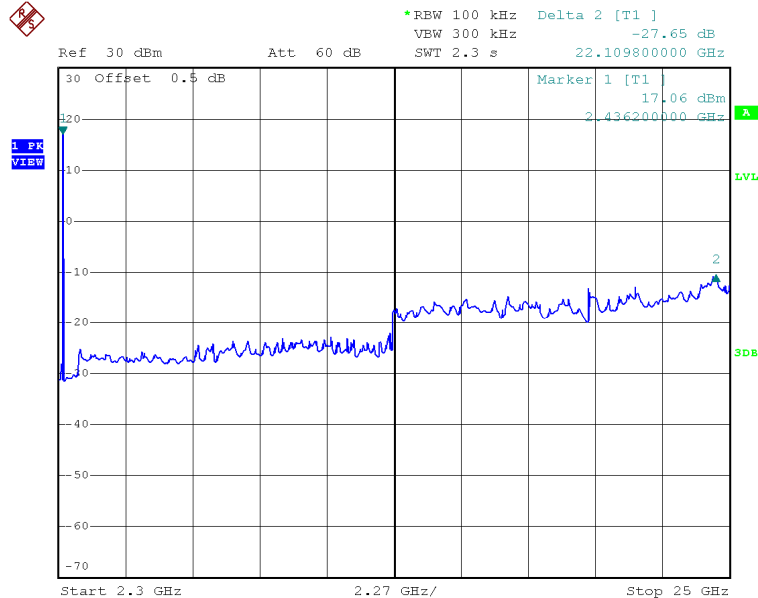
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Plots of Out of Band Conducted Emissions Middle Channel, Plot 1



Middle Channel, Plot 2

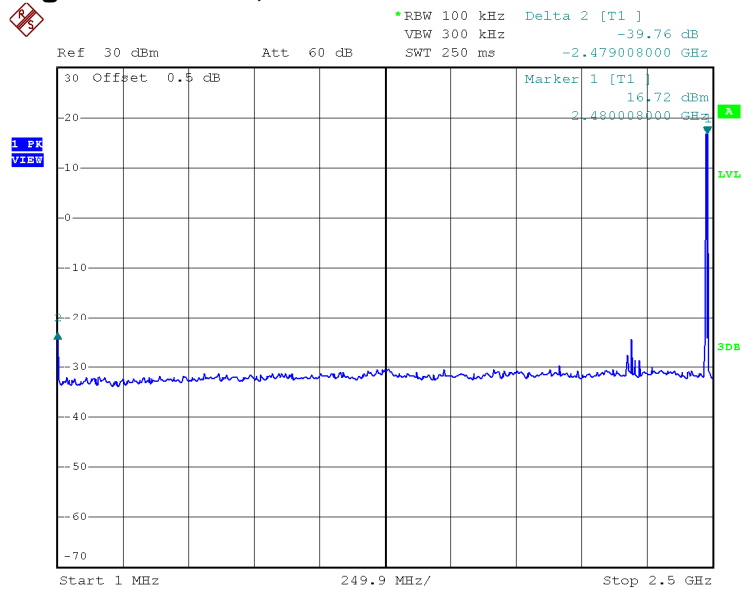


Issuing Laboratory: Intertek Testing Services Hong Kong Limited

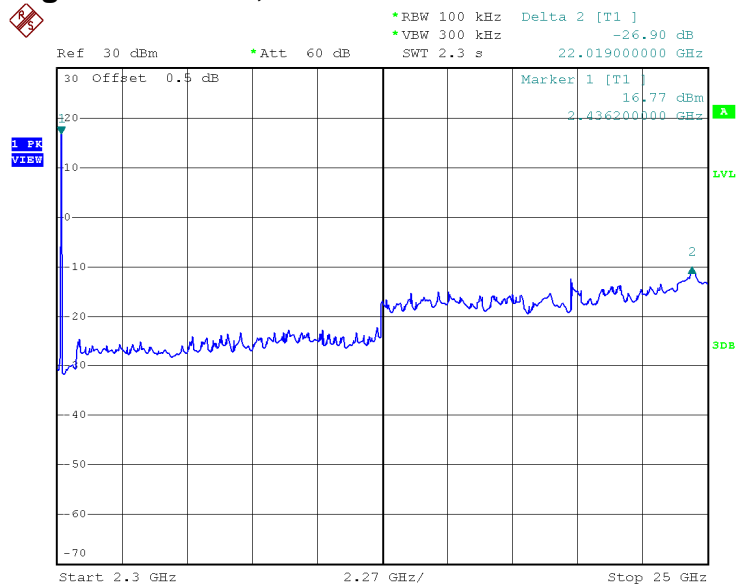
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Plots of Out of Band Conducted Emissions Highest Channel, Plot 1



Highest Channel, Plot 2



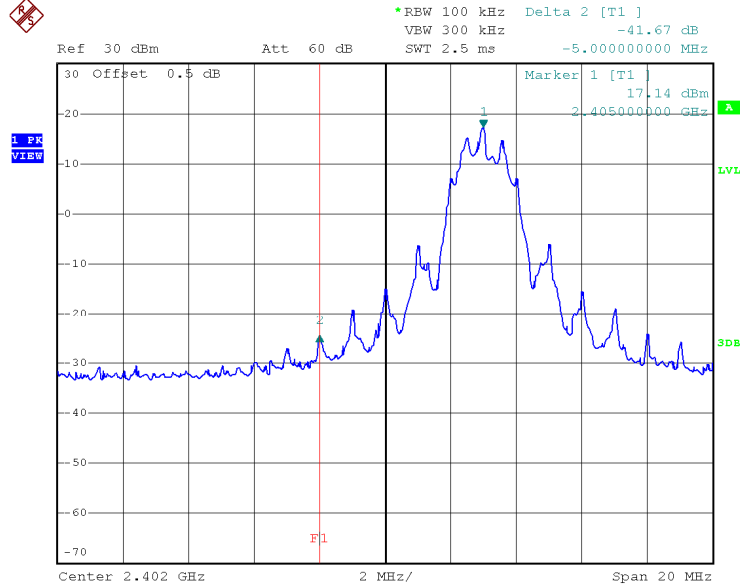
Issuing Laboratory: Intertek Testing Services Hong Kong Limited

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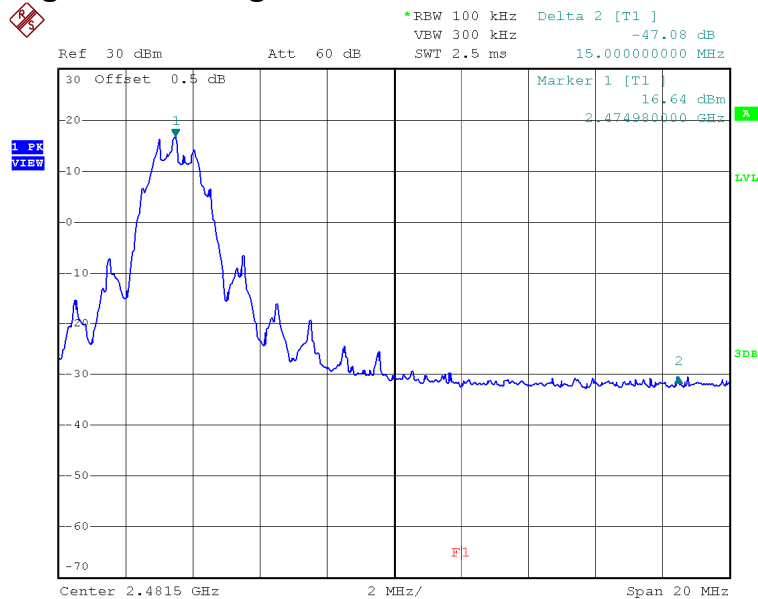


Plots of Bandedge

Lowest Bandedge



Highest Bandedge



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4.7 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 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29 \text{ dB} \\ PD &= 0 \text{ dB} \\ AV &= -10 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

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4.8 Transmitter Radiated Emissions in Restricted Bands and Spurious Emissions

Data is 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.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.



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4.8.1 Radiated Emission Configuration Photograph

Worst Case Restricted Band Radiated Emission
at

Baby Unit: 384.102 MHz

The worst case radiated emission configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

4.8.2 Radiated Emission Data

The data in tables 1-4 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Baby Unit: Passed by 1.0 dB margin compare with peak limit

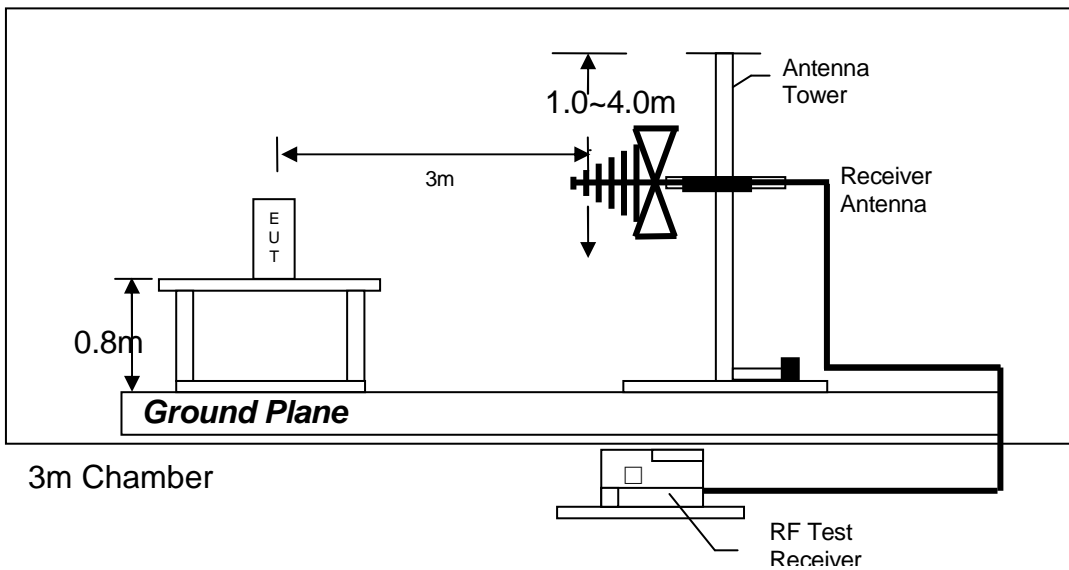
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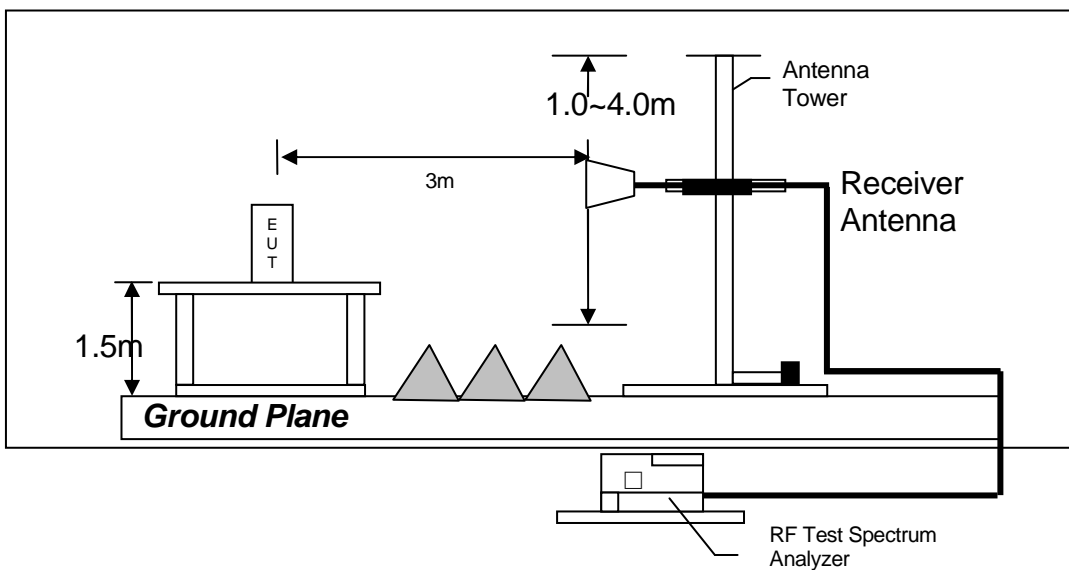


4.8.3 Radiated Emission Test Setup

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

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Mode: TX-Channel 1

Table 1, Baby Unit

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Average Factor (dB)	Calculated at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
<i>H</i>	<i>2390.000</i>	<i>60.2</i>	<i>33</i>	<i>29.4</i>	<i>56.6</i>	<i>22.2</i>	<i>34.4</i>	<i>54.0</i>	<i>-19.6</i>
<i>H</i>	<i>4810.000</i>	<i>66.6</i>	<i>33</i>	<i>34.9</i>	<i>68.5</i>	<i>22.2</i>	<i>46.3</i>	<i>54.0</i>	<i>-7.7</i>
<i>V</i>	<i>12025.000</i>	<i>53.8</i>	<i>33</i>	<i>40.5</i>	<i>61.3</i>	<i>22.2</i>	<i>39.1</i>	<i>54.0</i>	<i>-14.9</i>

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
<i>H</i>	<i>2390.000</i>	<i>60.2</i>	<i>33</i>	<i>29.4</i>	<i>56.6</i>	<i>74.0</i>	<i>-17.4</i>
<i>H</i>	<i>4810.000</i>	<i>66.6</i>	<i>33</i>	<i>34.9</i>	<i>68.5</i>	<i>74.0</i>	<i>-5.5</i>
<i>V</i>	<i>12025.000</i>	<i>53.8</i>	<i>33</i>	<i>40.5</i>	<i>61.3</i>	<i>74.0</i>	<i>-12.7</i>

- NOTES:
1. Peak detector is used for the emission measurement.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-247 Section 2.2.

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Mode: TX-Channel 18

Table 2, Baby Unit

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
<i>H</i>	<i>4880.000</i>	<i>66.1</i>	<i>33</i>	<i>34.9</i>	<i>68.0</i>	<i>22.2</i>	<i>45.8</i>	<i>54.0</i>	<i>-8.2</i>
<i>V</i>	<i>7320.000</i>	<i>53.8</i>	<i>33</i>	<i>37.9</i>	<i>58.7</i>	<i>22.2</i>	<i>36.5</i>	<i>54.0</i>	<i>-17.5</i>
<i>V</i>	<i>12200.000</i>	<i>53.7</i>	<i>33</i>	<i>40.5</i>	<i>61.2</i>	<i>22.2</i>	<i>39.0</i>	<i>54.0</i>	<i>-15.0</i>

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
<i>H</i>	<i>4880.000</i>	<i>66.1</i>	<i>33</i>	<i>34.9</i>	<i>68.0</i>	<i>74.0</i>	<i>-6.0</i>
<i>V</i>	<i>7320.000</i>	<i>53.8</i>	<i>33</i>	<i>37.9</i>	<i>58.7</i>	<i>74.0</i>	<i>-15.3</i>
<i>V</i>	<i>12200.000</i>	<i>53.7</i>	<i>33</i>	<i>40.5</i>	<i>61.2</i>	<i>74.0</i>	<i>-12.8</i>

- NOTES:
1. Peak detector is used for the emission measurement.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-247 Section 2.2.

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Mode: TX-Channel 32

Table 3, Baby Unit

Radiated Emission Data

Polari- zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Average Factor (dB)	Calculated at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
<i>H</i>	<i>2483.500</i>	<i>51.6</i>	<i>33</i>	<i>29.4</i>	<i>48.0</i>	<i>22.2</i>	<i>25.8</i>	<i>54.0</i>	<i>-28.2</i>
<i>H</i>	<i>4950.000</i>	<i>66.4</i>	<i>33</i>	<i>34.9</i>	<i>68.3</i>	<i>22.2</i>	<i>46.1</i>	<i>54.0</i>	<i>-7.9</i>
<i>V</i>	<i>7425.000</i>	<i>53.6</i>	<i>33</i>	<i>37.9</i>	<i>58.5</i>	<i>22.2</i>	<i>36.3</i>	<i>54.0</i>	<i>-17.7</i>
<i>V</i>	<i>12375.000</i>	<i>53.7</i>	<i>33</i>	<i>40.5</i>	<i>61.2</i>	<i>22.2</i>	<i>39.0</i>	<i>54.0</i>	<i>-15.0</i>

Polari- zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
<i>H</i>	<i>2483.500</i>	<i>51.6</i>	<i>33</i>	<i>29.4</i>	<i>48.0</i>	<i>74.0</i>	<i>-26.0</i>
<i>H</i>	<i>4950.000</i>	<i>66.4</i>	<i>33</i>	<i>34.9</i>	<i>68.3</i>	<i>74.0</i>	<i>-5.7</i>
<i>V</i>	<i>7425.000</i>	<i>53.6</i>	<i>33</i>	<i>37.9</i>	<i>58.5</i>	<i>74.0</i>	<i>-15.5</i>
<i>V</i>	<i>12375.000</i>	<i>53.7</i>	<i>33</i>	<i>40.5</i>	<i>61.2</i>	<i>74.0</i>	<i>-12.8</i>

- NOTES:
1. Peak detector is used for the emission measurement.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-247 Section 2.2.

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Mode: Talk

Table 4, Baby Unit

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	47.945	42.8	16	11.0	37.8	40.0	-2.2
V	95.960	37.9	16	12.0	33.9	43.5	-9.6
V	120.088	43.3	16	14.0	41.3	43.5	-2.2
V	167.982	33.5	16	18.0	35.5	43.5	-8.0
V	215.997	39.6	16	17.0	40.6	43.5	-2.9
H	264.012	35.3	16	21.0	40.3	46.0	-5.7
H	288.020	34.9	16	22.0	40.9	46.0	-5.1
V	312.027	34.2	16	23.0	41.2	46.0	-4.8
V	360.096	35.5	16	24.0	43.5	46.0	-2.5
H	384.102	37.0	16	24.0	45.0	46.0	-1.0
V	408.110	36.4	16	24.0	44.4	46.0	-1.6
V	432.186	34.5	16	25.0	43.5	46.0	-2.5
V	480.080	33.6	16	26.0	43.6	46.0	-2.4
V	528.095	31.1	16	27.0	42.1	46.0	-3.9
V	552.102	30.6	16	28.0	42.6	46.0	-3.4
V	576.110	31.5	16	28.0	43.5	46.0	-2.5
V	624.246	28.8	16	29.0	41.8	46.0	-4.2
V	864.321	21.9	16	31.0	36.9	46.0	-9.1

- NOTES:
1. Peak detector is used for the emission measurement.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-247 Section 2.2.



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4.8.4 Transmitter Duty Cycle Calculation

$$\begin{aligned}\text{Duty Cycle (DC)} &= (\text{Maximum ON time in 100 ms}) / (100 \text{ ms}) \\ &= 1.1088 \text{ ms} \times 7 / 100 \text{ ms}\end{aligned}$$

$$\begin{aligned}\text{Average Factor (AF)} &= 20 \log(\text{DC}) \\ &= 20 * \log(0.0776) \\ &= -22.20 \text{ dB}\end{aligned}$$

The plot(s) shows the bit timing is saved as below.

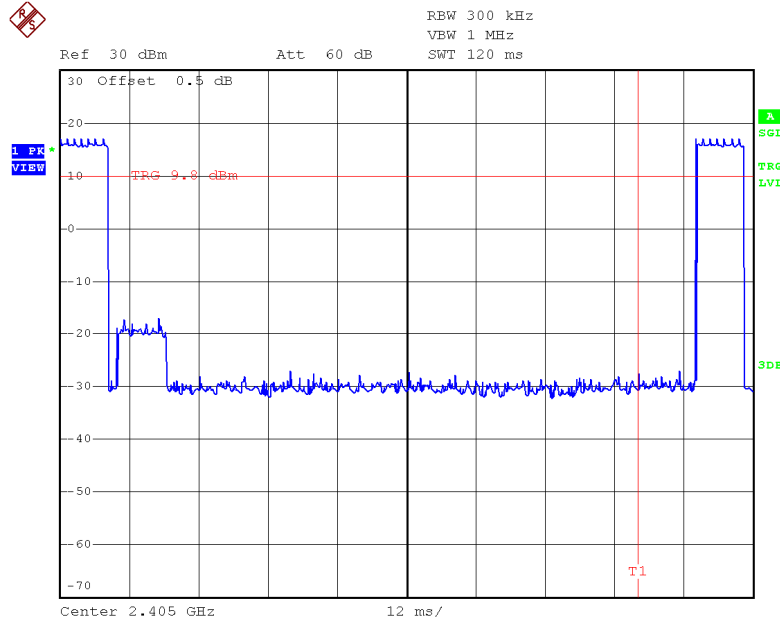
Issuing Laboratory: Intertek Testing Services Hong Kong Limited

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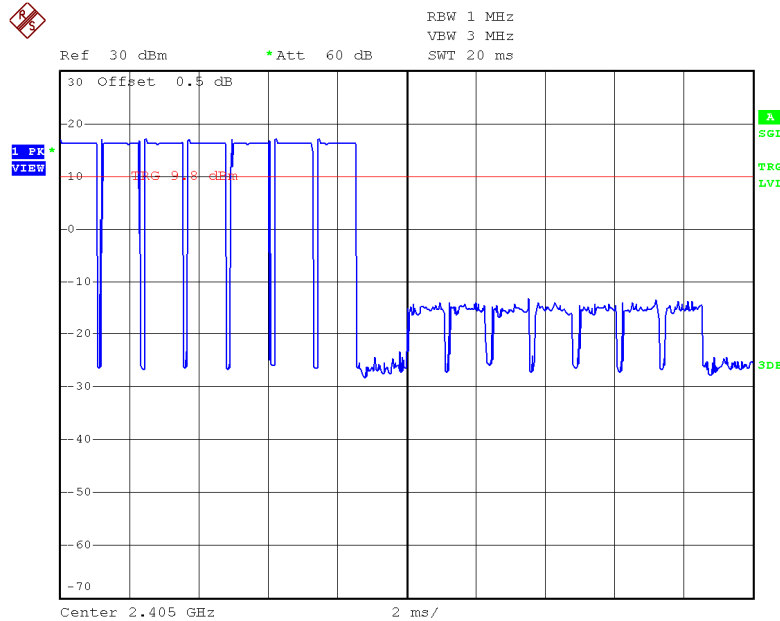


Plots of transmitter Duty Cycle

Plot A



Plot B





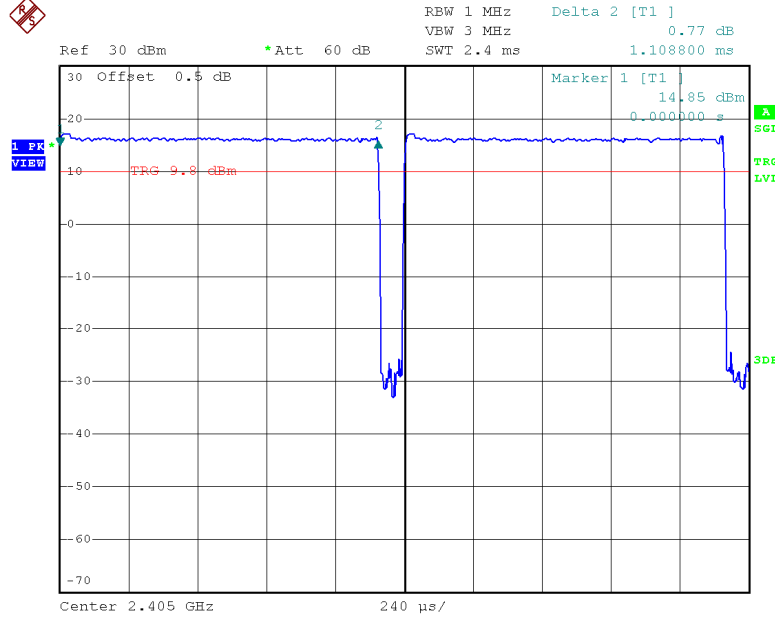
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Plot C



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4.9 AC Power Line Conducted Emission

- 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 but has no transmission. Emission Data of Base Unit is listed in following pages.

4.9.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration
at

1.8015 MHz

The worst case line conducted configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

4.9.2 AC Power Line Conducted Emission Data

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

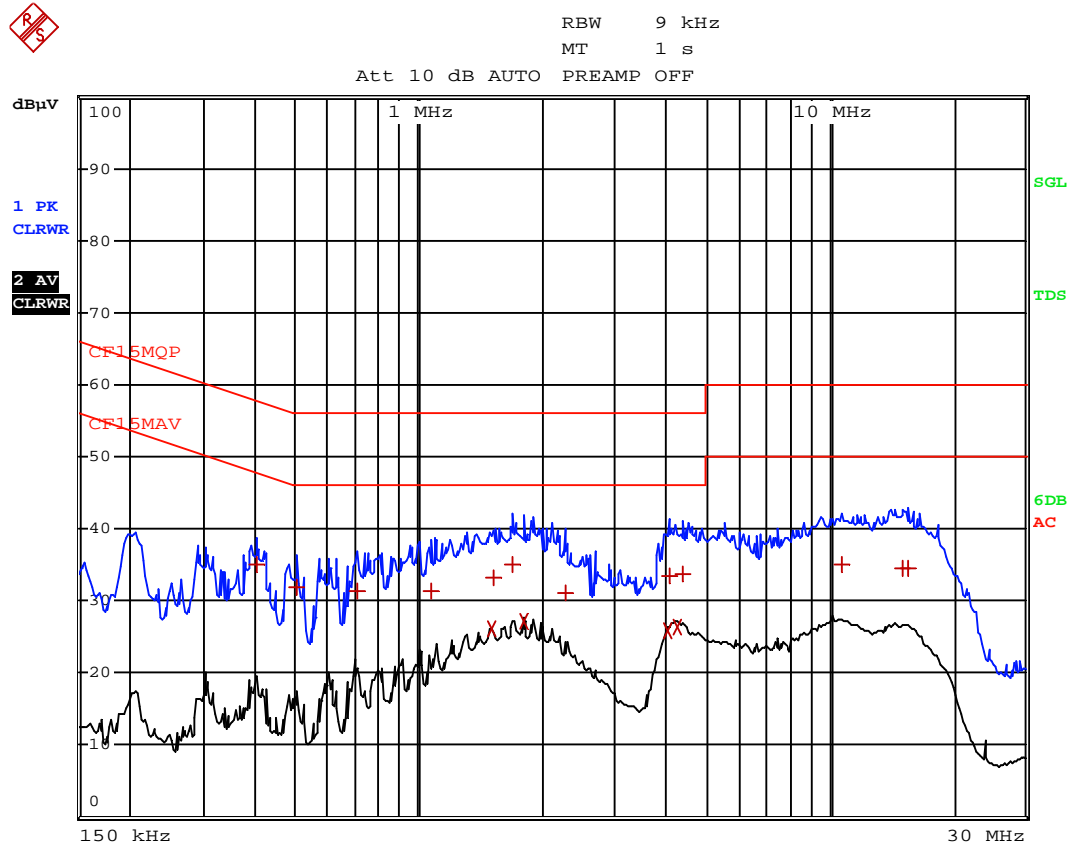
Passed by 18.80 dB margin compare with CISPR average limit

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Worst Case: Talk



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Worst Case: Talk

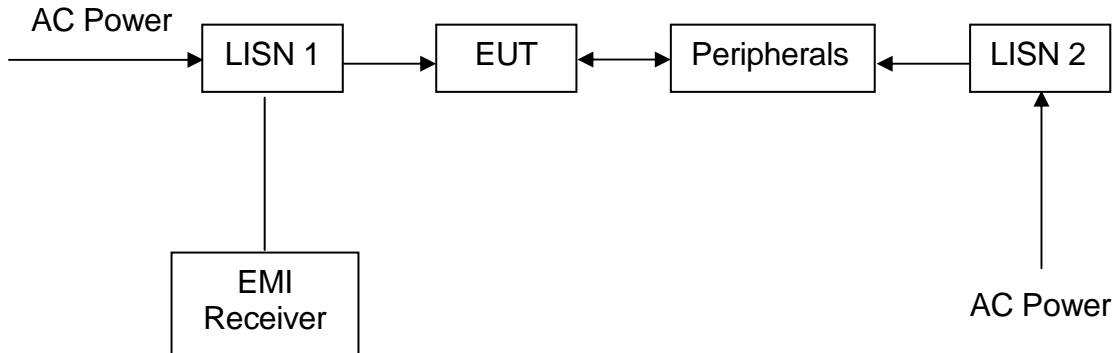
EDIT PEAK LIST (Final Measurement Results)					
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	402 kHz	35.03	N	-22.77
1	Quasi Peak	501 kHz	32.00	N	-23.99
1	Quasi Peak	708 kHz	31.49	N	-24.50
1	Quasi Peak	1.0725 MHz	31.46	L1	-24.53
2	CISPR Average	1.5045 MHz	26.00	N	-19.99
1	Quasi Peak	1.518 MHz	33.28	N	-22.71
1	Quasi Peak	1.7025 MHz	35.04	L1	-20.95
2	CISPR Average	1.8015 MHz	27.19	L1	-18.80
1	Quasi Peak	2.2875 MHz	30.98	N	-25.01
2	CISPR Average	4.0425 MHz	25.74	N	-20.25
1	Quasi Peak	4.0965 MHz	33.52	L1	-22.47
2	CISPR Average	4.2585 MHz	26.41	N	-19.58
1	Quasi Peak	4.398 MHz	33.75	N	-22.24
1	Quasi Peak	10.7475 MHz	34.97	L1	-25.03
1	Quasi Peak	15 MHz	34.64	N	-25.35
1	Quasi Peak	15.621 MHz	34.63	N	-25.36

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4.9.3 AC Line Conducted Emission Test Setup



The EUT along with its peripherals were placed on a 1.0m(W)×1.5m(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 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

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



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EXHIBIT 5 EQUIPMENT LIST

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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-2253	EW-0571
Manufacturer	R&S	R&S	EMCO
Model No.	ESCI	FSP40	3104C
Calibration Date	Jan. 28, 2016	Jun. 15, 2016	May 18, 2016
Calibration Due Date	Jan. 28, 2017	Jun. 15, 2017	Nov. 18, 2017

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna
Registration No.	EW-0447	EW-1133
Manufacturer	EMCO	EMCO
Model No.	3146	3115
Calibration Date	May 18, 2016	Nov. 05, 2015
Calibration Due Date	Nov. 18, 2017	May 05, 2017

2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2500	EW-2874
Manufacturer	R&S	R&S
Model No.	ESCI	ENV-216
Calibration Date	Jan. 28, 2016	Jan. 28, 2016
Calibration Due Date	Jan. 28, 2017	Jan. 28, 2017

3) Conductive Measurement Test

Equipment	Spectrum Analyzer
Registration No.	EW-2253
Manufacturer	R&S
Model No.	FSP40
Calibration Date	Jun. 15, 2016
Calibration Due Date	Jun. 15, 2017

END OF TEST REPORT