

Hong Kong MK Co., Limited

Application
For
Certification

FCC ID: 2AC75WES-600GT

MIMIMOTO PHONE TV

Model: WES-600GT

2.4GHz transmitter

Report No.: 140926038SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-14]

Prepared and Checked by:

Approved by:

Sign on file

Robert Li
Project Engineer

Andy Yan
Senior Project Engineer
Date: September 22, 2015

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF no.: FCC 15C_Tx_b

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch

6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China
Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751 Website: www.china.intertek-etlsemko.com

LIST OF EXHIBITS

INTRODUCTION

<i>EXHIBIT 1:</i>	Summary of Tests
<i>EXHIBIT 2:</i>	General Description
<i>EXHIBIT 3:</i>	System Test Configuration
<i>EXHIBIT 4:</i>	Measurement Results
<i>EXHIBIT 5:</i>	Equipment Photographs
<i>EXHIBIT 6:</i>	Product Labeling
<i>EXHIBIT 7:</i>	Technical Specifications
<i>EXHIBIT 8:</i>	Instruction Manual
<i>EXHIBIT 9:</i>	Confidentiality Request
<i>EXHIBIT 10:</i>	Miscellaneous Information
<i>EXHIBIT 11:</i>	Test Equipment List

INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

MIMIMOTO PHONE TV

Model: WES-600GT

FCC ID: 2AC75WES-600GT

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DTS - Part 15 Digital Transmission Systems

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until :
date

Company Name agrees to notify the Commission by:
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-14] Edition] provision.

Report prepared by:

Robert Li
Intertek Testing Services Shenzhen Ltd.
Kejiyuan Branch
6F, Block D, Huahan Building, Langshan Road,
Nanshan District, Shenzhen, P. R. China
Phone: (86 755) 8614 0637
Fax: (86 755) 8614 6751

INTERTEK TESTING SERVICES

Table of Contents

1.0	<u>Summary of Test results</u>	2
2.0	<u>General Description</u>	4
2.1	Product Description	4
2.2	Related Submittal(s) Grants	5
2.3	Test Methodology	5
2.4	Test Facility	5
3.0	<u>System Test Configuration</u>	7
3.1	Justification	7
3.2	EUT Exercising Software	7
3.3	Special Accessories	7
3.4	Measurement Uncertainty	7
3.5	Equipment Modification	7
3.6	Support Equipment List and Description	8
4.0	<u>Measurement Results</u>	10
4.1	Maximum Conducted Output Power at Antenna Terminals	10
4.2	Minimum 6 dB RF Bandwidth	11
4.3	Maximum Power Density Reading	14
4.4	Out of Band Conducted Emissions	17
4.5	Out of Band Radiated Emissions	23
4.6	Transmitter Radiated Emissions in Restricted Bands	24
4.7	Field Strength Calculation	25
4.8	Radiated Spurious Emission	26
4.9	Conducted Emission	31
4.10	Radiated Emissions from Digital Section of Transceiver	34
4.11	Transmitter Duty Cycle Calculation and Measurements	35
5.0	<u>Equipment Photographs</u>	37
6.0	<u>Product Labelling</u>	39
7.0	<u>Technical Specifications</u>	41
8.0	<u>Instruction Manual</u>	43
9.0	<u>Confidentiality Request</u>	45
10.0	<u>Discussion of Pulse Desensitization</u>	47
11.0	<u>Test Equipment List</u>	49

INTERTEK TESTING SERVICES

List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf
Agreement	Certification Agreement	agreement.pdf

INTERTEK TESTING SERVICES

EXHIBIT 1

SUMMARY OF TEST RESULTS

INTERTEK TESTING SERVICES

1.0 Summary of Test results

MIMIMOTO PHONE TV

Model: WES-600GT

FCC ID: 2AC75WES-600GT

TEST	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

INTERTEK TESTING SERVICES

EXHIBIT 2

GENERAL DESCRIPTION

INTERTEK TESTING SERVICES

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is a MIMIMOTO PHONE TV. The EUT was powered through AC/DC adaptor with Adapter model: YN6W-0500030JZ. For more detail information pls. refer to the user manual.

Type of Modulation: GFSK

Antenna Type: Integral Antenna.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

INTERTEK TESTING SERVICES

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems, and there is no corresponding unit for certification.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the 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 part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

EXHIBIT 3

SYSTEM TEST CONFIGURATION

INTERTEK TESTING SERVICES

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by AC/DC adaptor with input of AC 120V, 60Hz during the testing. Only the worst case data was reported.

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

The rear of unit shall be flushed with the rear of the table.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed 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.

3.2 EUT Exercising Software

N/A

3.3 Special Accessories

N/A.

3.4 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.

3.5 Equipment Modification

Any modifications installed previous to testing by Hong Kong MK Co., Limited will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

INTERTEK TESTING SERVICES

3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
iPod	Apple	A1367
AC/DC adaptor	Hong Kong MK Co., Limited	YN6W-0500030JZ (Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 300mA)

INTERTEK TESTING SERVICES

EXHIBIT 4

MEASUREMENT RESULTS

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

4.0 **Measurement Results**

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

GFSK (Antenna Gain = 2dBi)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2403	5.57	3.61
Middle Channel: 2442	6.38	4.35
High Channel: 2478	5.57	3.61

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 6.38dBm

For RF Exposure, the information is saved with filename: analysis report.pdf.

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
Date of Test: May 22, 2015
Model: WES-600GT

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

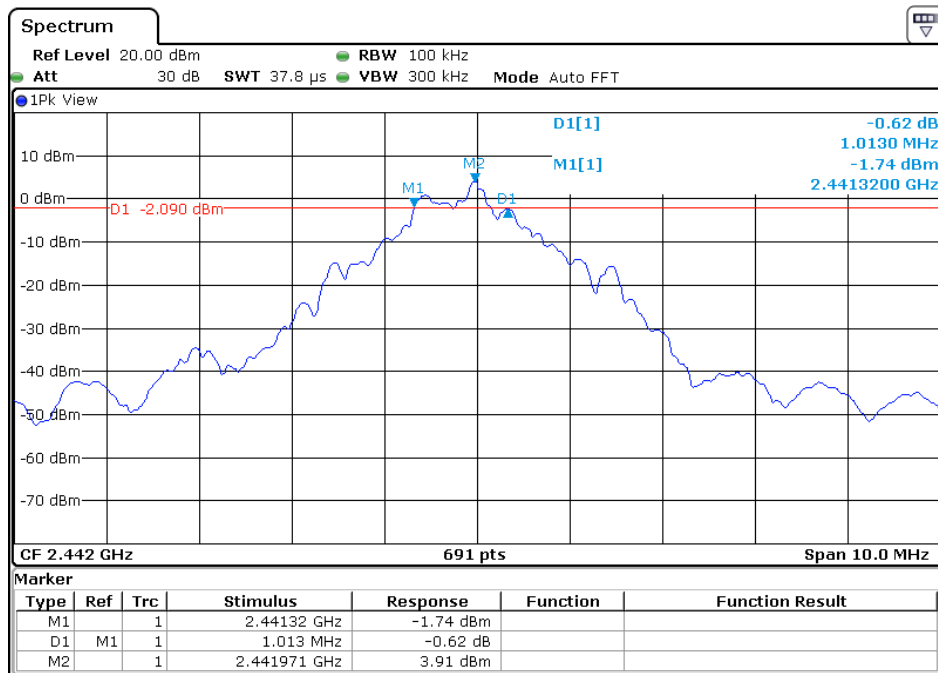
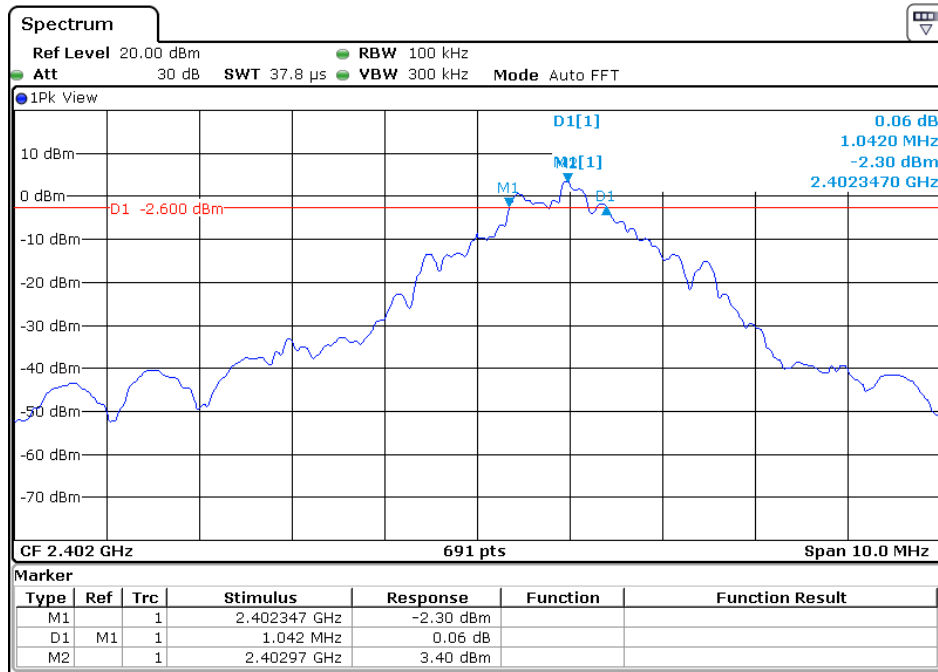
The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

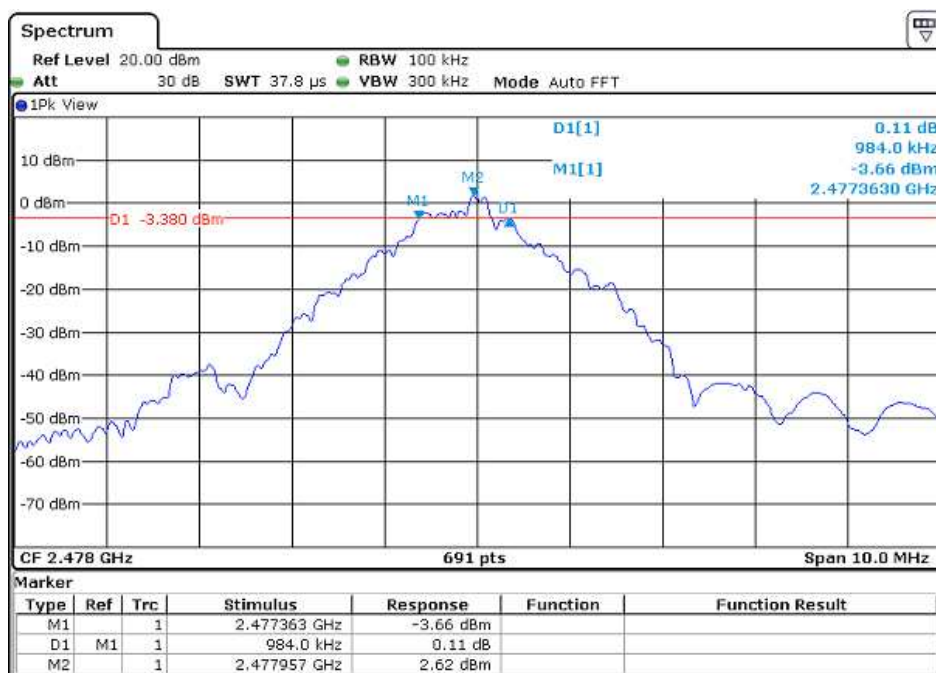
GFSK	
Frequency (MHz)	6 dB Bandwidth (MHz)
2403	1.042
2442	1.013
2478	0.984

The test plots are attached as below.

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES



TRF no.: FCC 15C_TX_b
 FCC ID: 2AC75WES-600GT
 Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
Date of Test: May 22, 2015
Model: WES-600GT

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074.

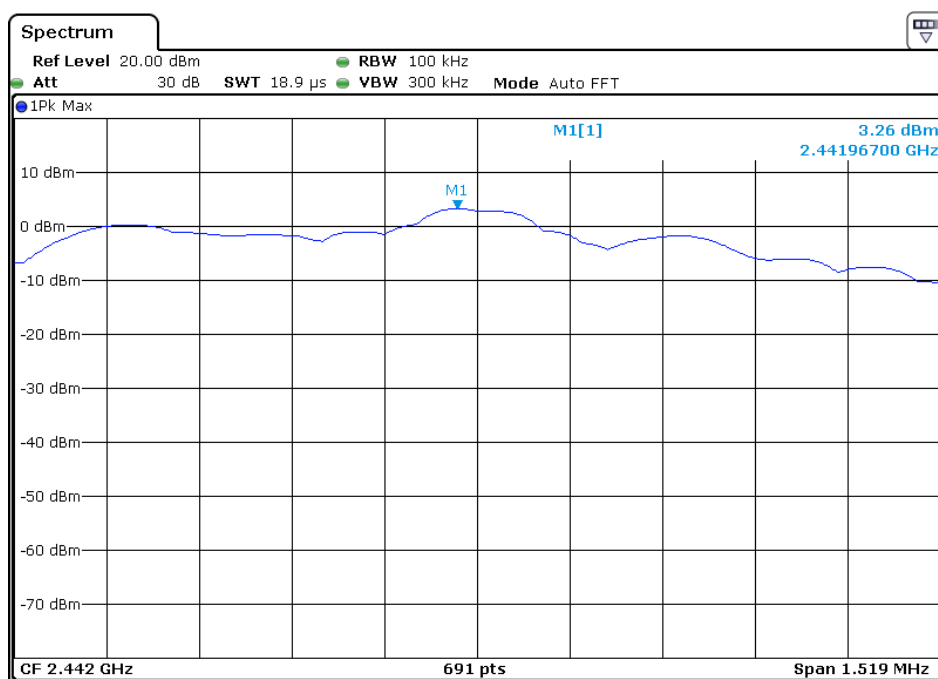
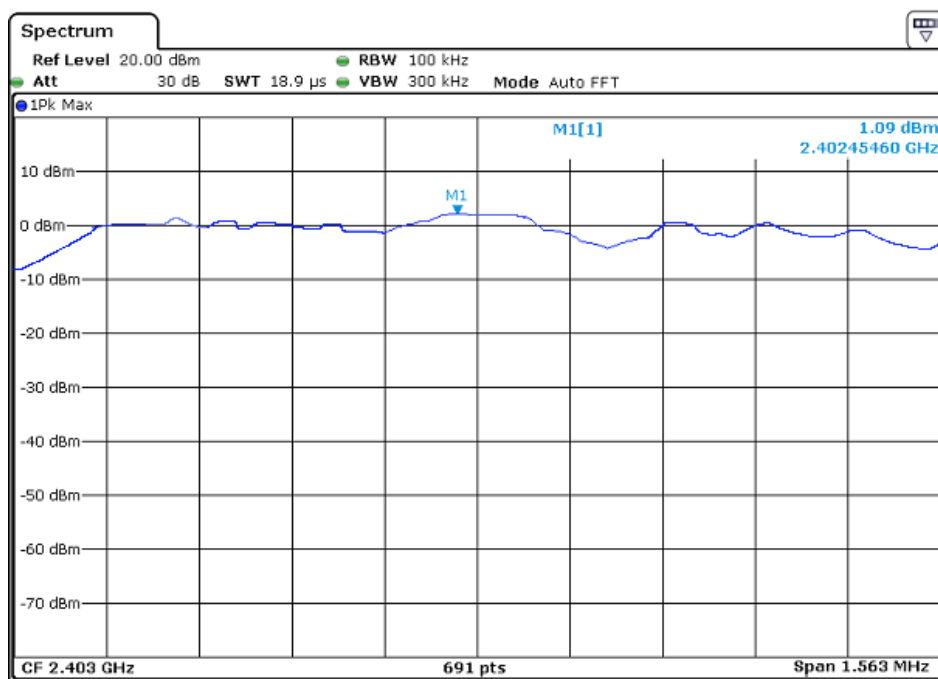
Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/3 kHz.

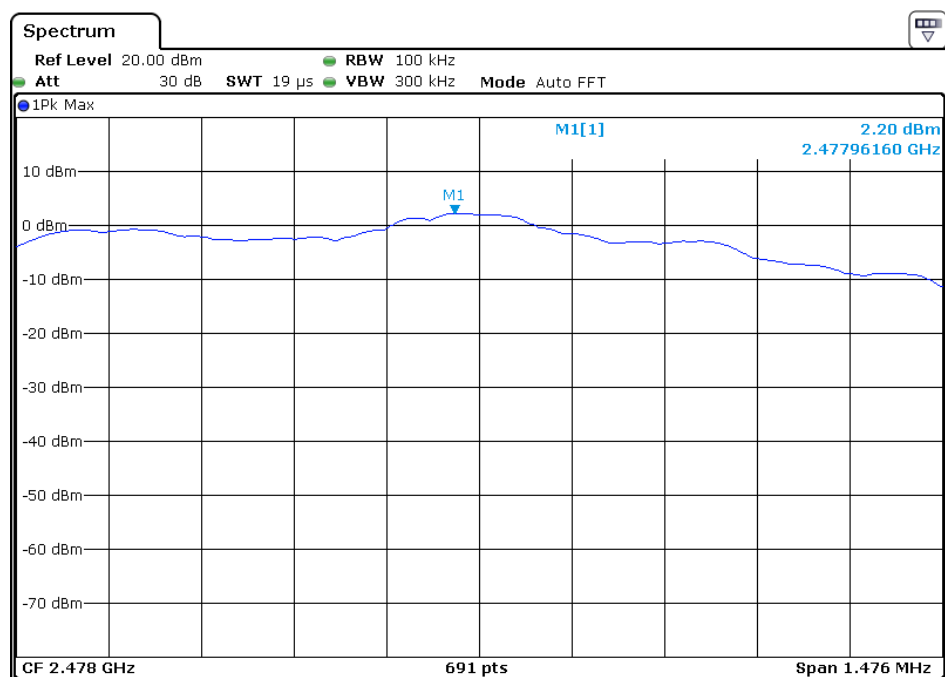
GFSK	
Frequency (MHz)	Power Density with RBW 100KHz
2403	1.09
2442	3.26
2478	2.20

The test plots are attached as below.

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES



TRF no.: FCC 15C_TX_b
FCC ID: 2AC75WES-600GT
Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
Date of Test: May 22, 2015
Model: WES-600GT

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074.

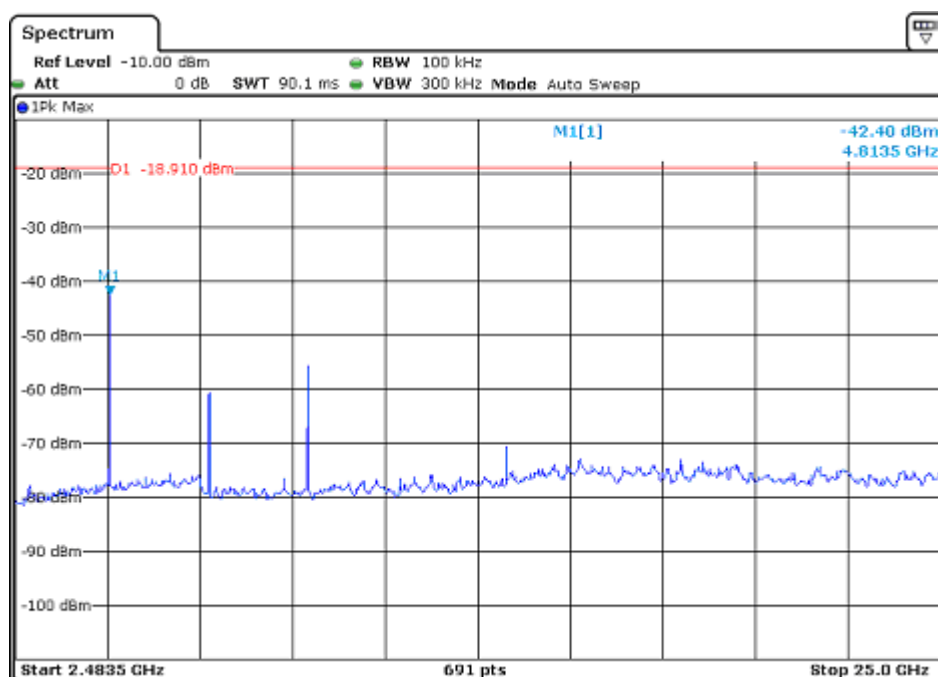
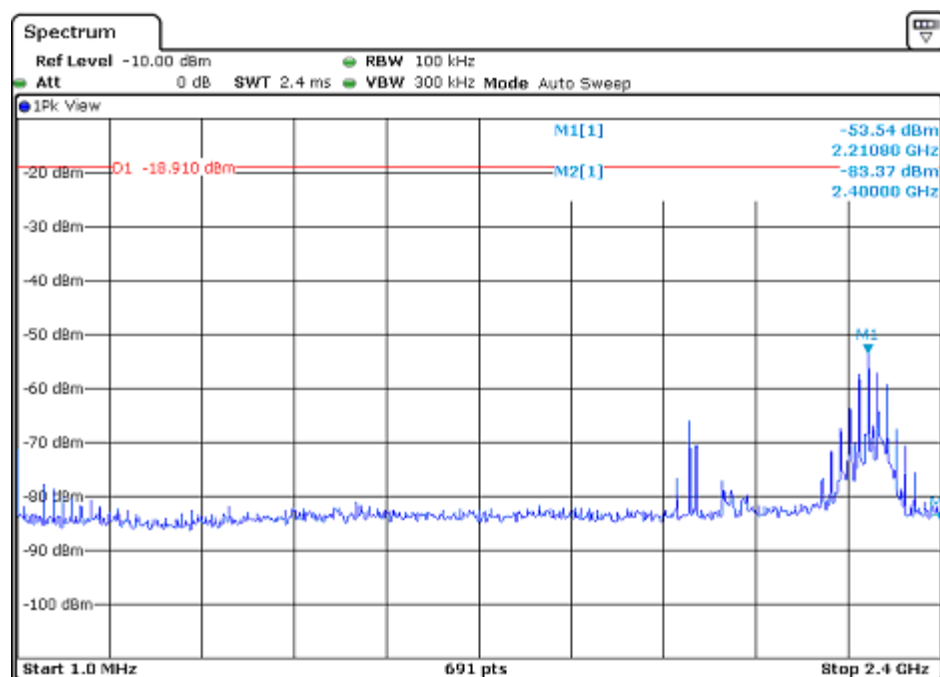
All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

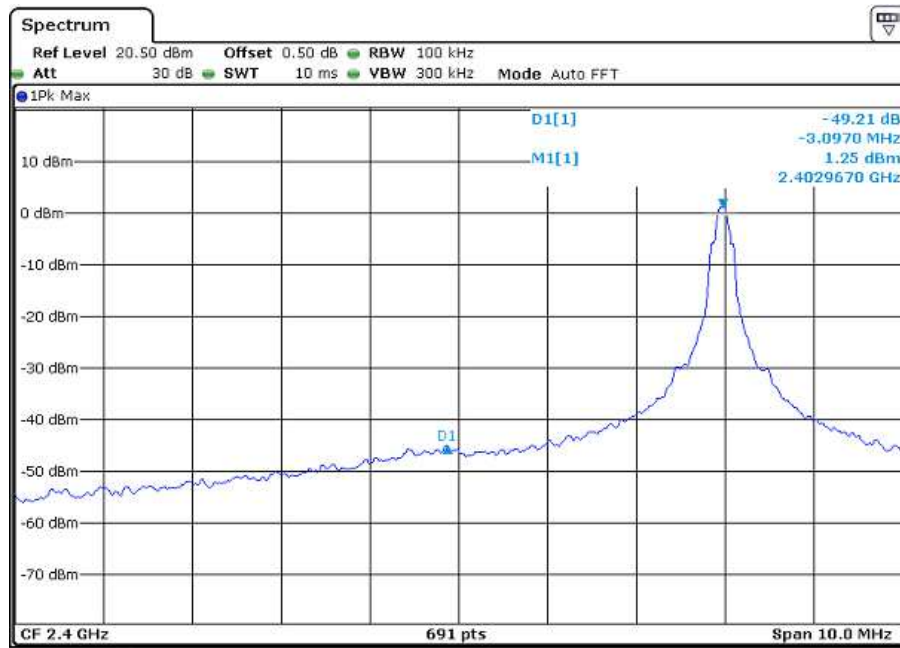
INTERTEK TESTING SERVICES

Channel 01 (2403MHz) Reference Level: 1.09dBm

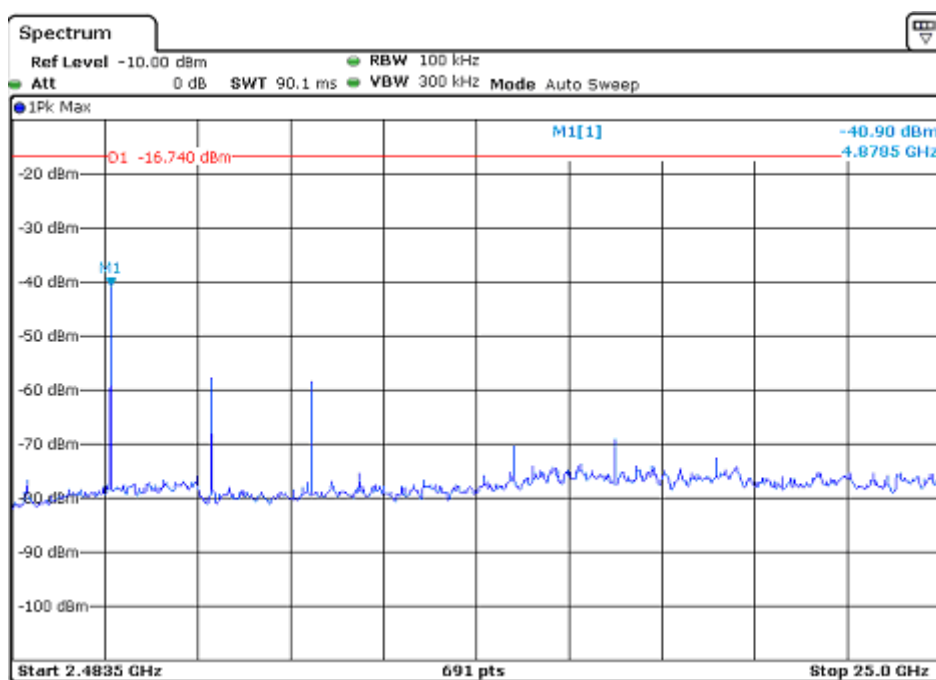
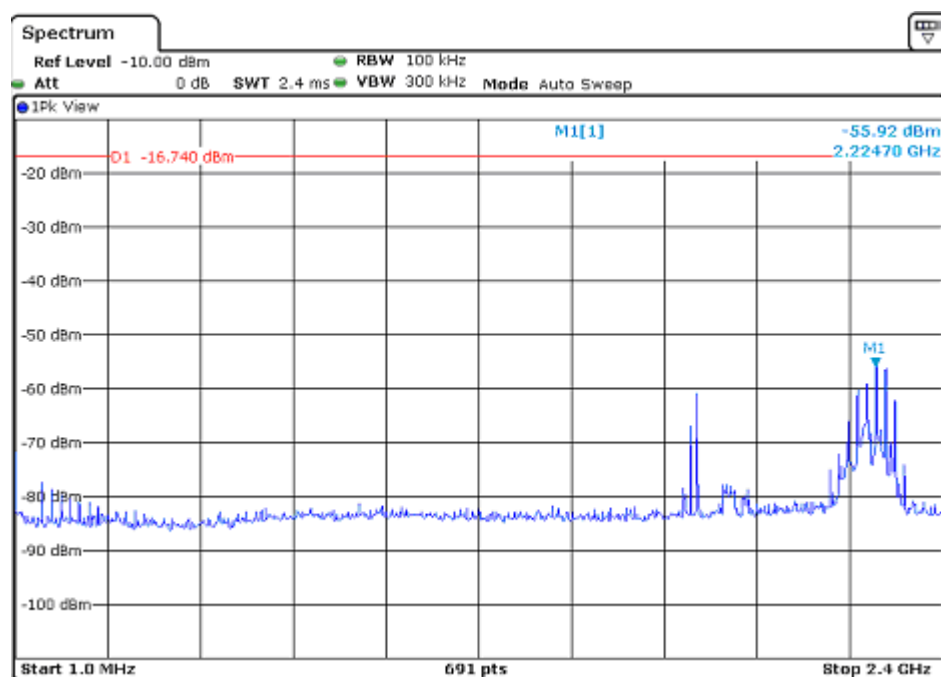


TRF no.: FCC 15C_TX_b
FCC ID: 2AC75WES-600GT
Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

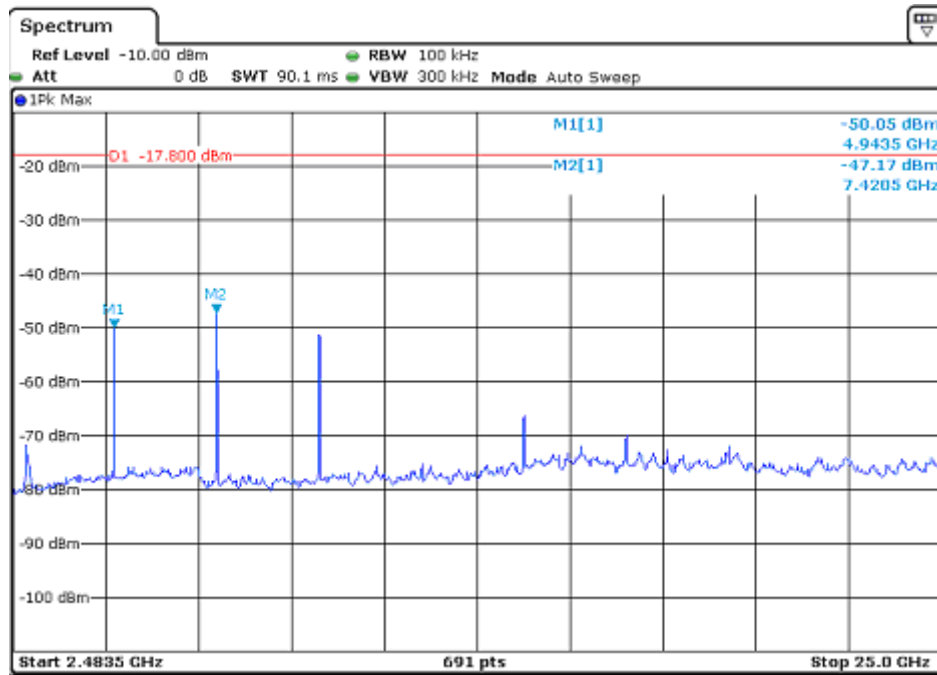
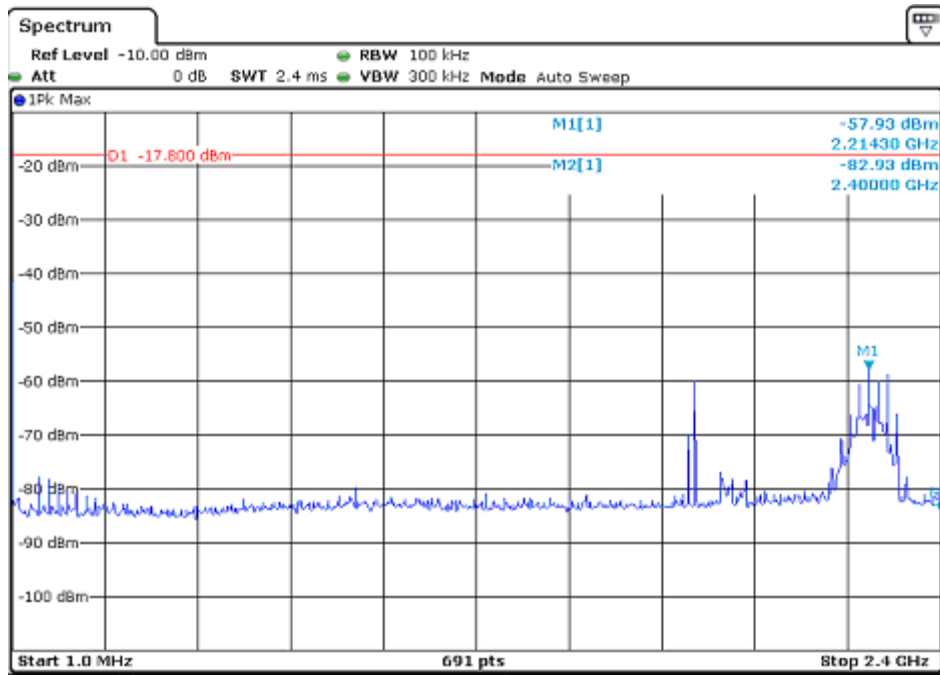


Channel 14(2442MHz) Reference Level: 3.26dBm



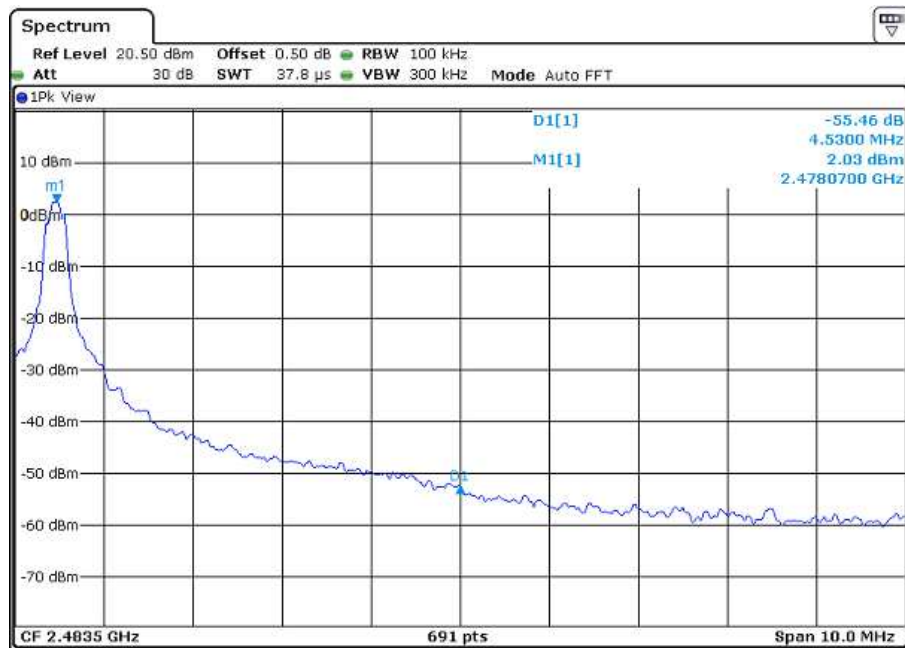
INTERTEK TESTING SERVICES

Channel 26 (2478MHz) Reference Level: 2.20dBm



TRF no.: FCC 15C_TX_b
FCC ID: 2AC75WES-600GT
Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES



INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
Date of Test: May 22, 2015
Model: WES-600GT

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

- ☒ Not required, since all emissions are more than 20dB below fundamental
- ☐ See attached data sheet

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
Date of Test: May 22, 2015
Model: WES-600GT

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

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. All measurements were performed with peak detection unless otherwise specified.

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

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

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.

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

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

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:

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

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. The net field strength for comparison to the appropriate emission limit is 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

TRF no.: FCC 15C_TX_b

FCC ID: 2AC75WES-600GT

Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 2389.978MHz is passed by 1.0dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

Operating Mode: Transmitting

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	233.220	48.4	20.0	13.4	41.8	46.0	-4.2
Horizontal	240.005	44.7	20.0	13.8	38.5	46.0	-7.5
Horizontal	676.020	43.6	20.0	11.2	34.8	46.0	-11.2
Vertical	30.485	30.4	20.0	17.2	27.6	40.0	-12.4
Vertical	215.760	38.3	20.0	12.6	30.9	43.5	-12.6
Vertical	479.110	33.8	20.0	20.4	34.2	46.0	-11.8

- NOTES: 1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances 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 harmonic 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. All emissions are below the QP limit.

TRF no.: FCC 15C_TX_b

FCC ID: 2AC75WES-600GT

Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

Operating Mode: TX-Channel 01

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	4806.000	58.3	36.7	35.5	57.1	74.0	-16.9
Horizontal	2389.978	71.0	36.1	28.2	63.1	74.0	-10.9

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	4806.000	58.3	36.7	35.5	10.1	47.0	54.0	-7.0
Horizontal	2389.978	71.0	36.1	28.2	10.1	53.0	54.0	-1.0

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

TRF no.: FCC 15C_TX_b

FCC ID: 2AC75WES-600GT

Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
 Date of Test: May 22, 2015
 Model: WES-600GT
 Operating Mode: TX-Channel 14

Radiated Emissions (2442MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	4844.000	58.7	36.7	34.5	56.5	74.0	-17.5
Horizontal	7326.000	61.0	36.7	35.5	59.8	74.0	-14.2

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	4844.000	58.7	36.7	34.5	10.1	46.4	54.0	-7.6
Horizontal	7326.000	61.0	36.7	35.5	10.1	49.7	54.0	-4.3

- Notes:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited
 Date of Test: May 22, 2015
 Model: WES-600GT
 Operating Mode: TX-Channel 26

Radiated Emissions (2478MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	4956.000	57.3	36.7	35.5	56.1	74.0	-17.9
Horizontal	7434.000	61.1	36.7	36.5	60.9	74.0	-13.1
Horizontal	2483.723	70.8	36.1	28.2	62.9	74.0	-11.1

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	4956.000	57.3	36.7	35.5	10.1	46.0	54.0	-8.0
Horizontal	7434.000	61.1	36.7	36.5	10.1	50.8	54.0	-3.2
Horizontal	2483.723	70.8	36.1	28.2	10.1	52.8	54.0	-1.2

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

INTERTEK TESTING SERVICES

4.9 Conducted Emission

Worst Case Conducted emission at 0.178MHz is Passed by 16.2dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

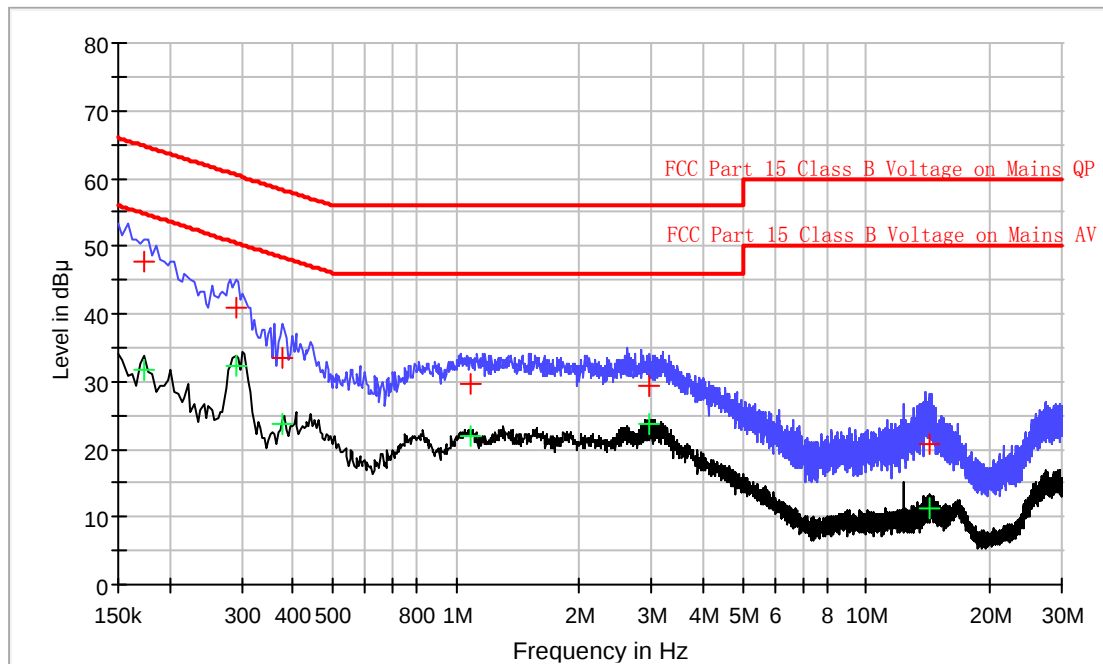
Date of Test: May 22, 2015

Model: WES-600GT

Operating Mode: TX Transmitting

Line: Live

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	47.7	L1	9.8	17.1	64.8
0.290000	40.8	L1	9.8	19.7	60.5
0.378000	33.6	L1	9.8	24.7	58.3
1.082000	29.5	L1	9.9	26.5	56.0
2.970000	29.5	L1	9.9	26.5	56.0
14.286000	20.8	L1	10.2	39.2	60.0

Result Table AV

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.174000	31.7	L1	9.8	23.1	54.8
0.290000	32.4	L1	9.8	18.1	50.5
0.378000	23.8	L1	9.8	24.5	48.3
1.082000	21.8	L1	9.9	24.2	46.0
2.970000	23.8	L1	9.9	22.2	46.0
14.286000	11.4	L1	10.2	38.6	50.0

TRF no.: FCC 15C_TX_b

FCC ID: 2AC75WES-600GT

Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

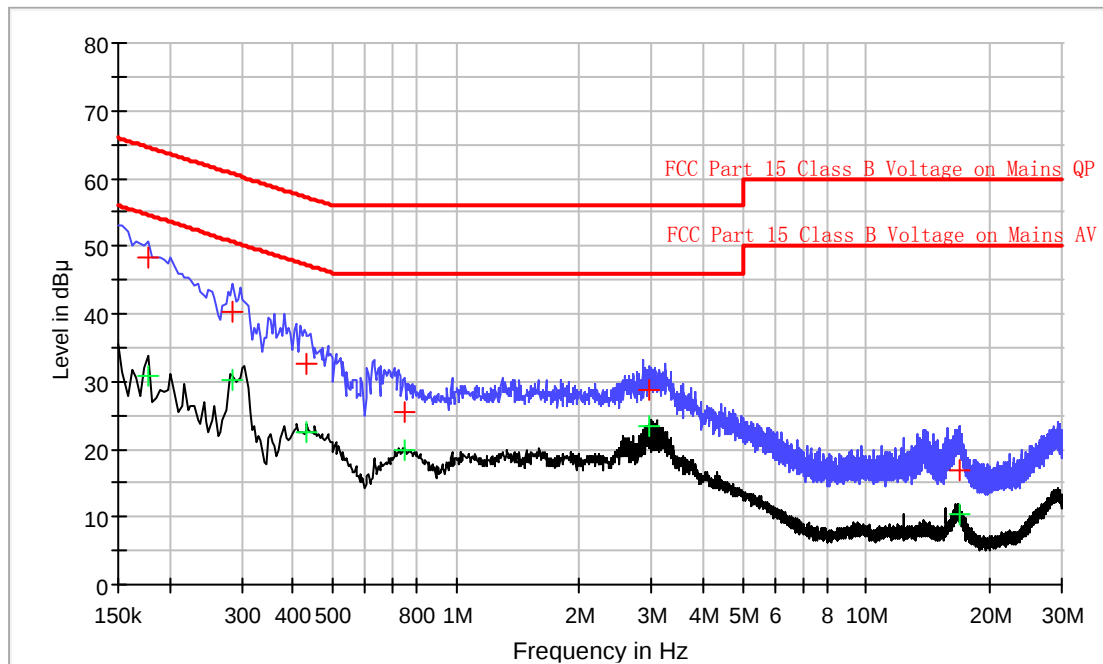
Date of Test: May 22, 2015

Model: WES-600GT

Operating Mode: TX Transmitting

Line: Neutral

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.178000	48.4	N	10.0	16.2	64.6
0.286000	40.3	N	10.1	20.3	60.6
0.434000	32.5	N	10.1	24.7	57.2
0.750000	25.4	N	10.2	30.6	56.0
2.970000	28.8	N	10.3	27.2	56.0
16.810000	16.8	N	10.5	43.2	60.0

Result Table AV

Frequency (MHz)	Average (dB μV)	Line	Corr. (dB)	Margin (dB)	Limit (dB μV)
0.178000	30.9	N	10.0	23.7	54.6
0.286000	30.3	N	10.1	20.3	50.6
0.434000	22.6	N	10.1	24.6	47.2
0.750000	19.8	N	10.2	26.2	46.0
2.970000	23.4	N	10.3	22.6	46.0
16.810000	10.3	N	10.5	39.7	50.0

TRF no.: FCC 15C_TX_b

FCC ID: 2AC75WES-600GT

Report No.: 140926038SZN-001

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

☒ Not required - No digital part

☐ Test results are attached

☐ Included in the separated report.

INTERTEK TESTING SERVICES

Applicant: Hong Kong MK Co., Limited

Date of Test: May 22, 2015

Model: WES-600GT

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

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 SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

ON Time=0.5507*2ms

Time to cycle=3.5362ms

Duty cycle connection factor= $20\lg(0.5507*2/3.5362)$

= -10.1dB

EXHIBIT 5
EQUIPMENT PHOTOGRAPHS

INTERTEK TESTING SERVICES

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

EXHIBIT 6

PRODUCT LABELLING

INTERTEK TESTING SERVICES

6.0 **Product Labeling**

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

EXHIBIT 7

TECHNICAL SPECIFICATIONS

INTERTEK TESTING SERVICES

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

INTERTEK TESTING SERVICES

EXHIBIT 8

INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

8.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

EXHIBIT 9
CONFIDENTIALITY REQUEST

INTERTEK TESTING SERVICES

9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

INTERTEK TESTING SERVICES

EXHIBIT 10

MISCELLANEOUS INFORMATION

INTERTEK TESTING SERVICES

10.0 **Discussion of Pulse Desensitization**

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

EXHIBIT 11

TEST EQUIPMENT LIST

INTERTEK TESTING SERVICES

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	20-May-2015	20-May-2016
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	20-May-2015	20-May-2016
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	28-Jun-2014	28-Jun-2015
SZ185-01	EMI Receiver	R&S	ESCI	100547	07-Feb-2015	07-Feb-2016
SZ061-09	Horn Antenna	ETS	3115	00092346	01-Nov-2014	01-Nov-2015
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	03-Sep-2014	03-Sep-2015
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	29-Apr-2015	29-Apr-2016
EM031-03	EXA Spectrum Analyzer	R&S	FSV40	101506	09-Jun-2014	09-Jun-2015
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	07-Feb-2015	07-Feb-2016
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	19-Apr-2014	19-Apr-2016
SZ062-02	RF Cable	RADIALL	RG 213U	--	31-Dec-2014	30-Jun-2015
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	07-Apr-2015	07-Oct-2015
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	07-Apr-2015	07-Oct-2015
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	20-May-2015	20-May-2016
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	01-Nov-2014	01-Nov-2015
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	01-Nov-2014	01-Nov-2015
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	16-Jun-2014	16-Jun-2015
SZ188-03	Shielding Room	ETS	RFD-100	4100	23-Aug-2014	23-Aug-2015