

## TEST REPORT

**Report No.: 21020815HKG-001**

actiMirror Corporation Ltd.

Application For Certification  
(Original Grant)

**FCC ID: 2AZUDDESK21T03**

**IC: 27292-DESK21T03**

Transceiver

**Prepared and Checked by:**

**Approved by:**

Signed On File

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Date: May 27, 2021

**TEST REPORT****GENERAL INFORMATION**

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<b>Manufacturer:</b>	actiMirror Corporation Ltd.
<b>Manufacturer Address:</b>	Unit 6-8, Hilder Centre, 2 Sung Ping Street, Hung Hom, Kowloon, Hong Kong.
<b>Brand Name:</b>	actiMirror
<b>Model / HVIN:</b>	Desk21T-03
<b>PMN:</b>	Desk21T-03
<b>Type of EUT:</b>	Transceiver
<b>Description of EUT:</b>	Smart Mirror with Display
<b>Serial Number:</b>	N/A
<b>FCC ID / IC:</b>	2AZUDDESK21T03 / 27292-DESK21T03
<b>Date of Sample Submitted:</b>	February 18, 2021
<b>Date of Test:</b>	February 18, 2021 to May 24, 2021
<b>Report No.:</b>	21020815HKG-001
<b>Report Date:</b>	May 27, 2021
<b>Environmental Conditions:</b>	Temperature: +10 to 40°C Humidity: 10 to 90%
<b>Conclusion:</b>	Test was conducted by client submitted sample. The submitted sample as received / after modification complied with the 47 CFR Part 15 / RSS-210 Issue 10 Certification.

**TEST REPORT****SUMMARY OF TEST RESULT**

Test Specification	Reference	Results
Transmitter Power Line Conducted Emissions	15.207 / RSS-Gen 8.8	Pass
Radiated Emission	15.249, 15.209 /	Pass
Radiated Emission on the Bandedge	RSS-210 B.10, RSS-210 4.4	
Radiated Emission in Restricted Bands	15.205 / RSS-210 4.1	Pass

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

FCC Part 15, October 1, 2019 Edition

RSS-210 Issue 10, December 2019

RSS-Gen Issue 5 Amendment 1, March 2019

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.  
2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB 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.

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## TEST REPORT

### 1.0 GENERAL DESCRIPTION

#### 1.1 Product Description

The Equipment Under Test (EUT) Model/HVIN: Desk21T-03 is a Smart Mirror with Display with Android system running with corresponding APP. It consists of display monitor, touch panel, LED light bars, small speakers, MIC, camera and connectivity of Bluetooth 3.0/BLE, 2.4G/5G Wi-Fi, 2 USB ports and one LAN Port. The EUT is operated on DC12V (AC/DC adaptor).

Antenna Type: Internal, Integral

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

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

#### 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber 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.

#### 1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data 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 placed on file with the FCC and IC No. 2042H.

## TEST REPORT

### 2.0 SYSTEM TEST CONFIGURATION

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by 120VAC (AC/DC adaptor).

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated standalone and placed in the rear of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

For simultaneous transmission, both WiFi and Bluetooth portions are also switched on when taking radiated emission for determining worst-case spurious emission

#### 2.2 EUT Exercising Software

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

#### 2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

#### 2.4 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.

#### 2.5 Support Equipment List and Description

1. USB Flash 4GB
2. LAN cable of 2m long  
(Provided by Intertek)
3. Adaptor  
Model: FJ-SW20171204000  
Input: 100-240VAC 1.5A 50/60Hz  
Output: 12VDC 4A  
(Provided by Applicant)

## TEST REPORT

### 3.0 EMISSION RESULTS

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.

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

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

where FS = Field Strength in  $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in  $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in  $\text{dB}\mu\text{V}/\text{m}$

RR = RA - AG - AV in  $\text{dB}\mu\text{V}$

LF = CF + AF in dB

Assume a receiver reading of 52.0  $\text{dB}\mu\text{V}$  is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27  $\text{dB}\mu\text{V}/\text{m}$ . This value in  $\text{dB}\mu\text{V}/\text{m}$  was converted to its corresponding level in  $\mu\text{V}/\text{m}$ .

$$RA = 52.0 \text{ dB}\mu\text{V}/\text{m}$$

$$AF = 7.4 \text{ dB}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$CF = 1.6 \text{ dB}$$

$$LF = 9.0 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V}/\text{m}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V}/\text{m})/20] = 22.4 \mu\text{V}/\text{m}$$

## TEST REPORT

### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 75.702 MHz

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

### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 8.8 dB

### 3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 0.155 MHz

For electronic filing, the worst-case line-conducted configuration photographs are saved with filename: conducted photo.pdf.

### 3.5 Conducted Emission Data

For electronic filing, the graph and data table of conducted emission is saved with filename: conducted.pdf.

Judgment: Pass by 28.7 dB

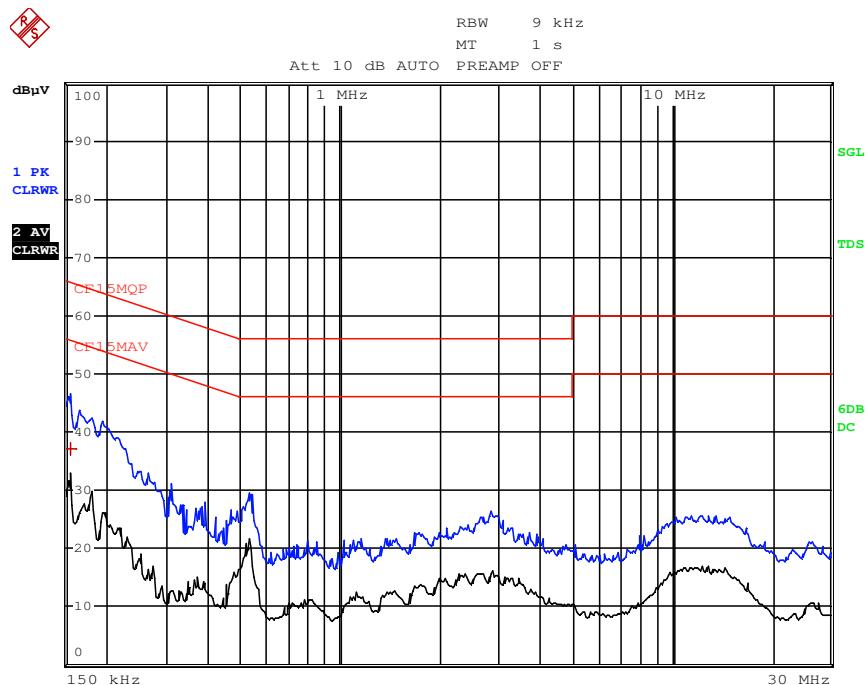
## TEST REPORT

### CONDUCTED EMISSION

Model: Desk21T-03

Date of Test: May 24, 2021

Worst-Case Operating Mode: WiFi + Bluetooth



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB $\mu$ V	DELTA	LIMIT dB
1 Quasi Peak	154.5 kHz	37.00 L1	-	-28.74

 Note: Measurement Uncertainty is  $\pm 4.2$ dB at a level of confidence 95%.

## TEST REPORT

### RADIATED EMISSIONS

Model: Desk21T-03

Date of Test: May 24, 2021

Worst-Case Operating Mode: Transmitting (Bluetooth 3.0)

**Table 1**  
**Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement**

Lowest Channel

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2402.000	67.0	33	29.4	63.4	94.0	-54.6
V	4804.000	31.1	33	34.9	33.0	54.0	-45.0
H	7206.000	26.9	33	37.9	31.8	54.0	-46.2
V	9608.000	26.4	33	40.4	33.8	54.0	-44.2
V	12010.000	29.7	33	40.5	37.2	54.0	-40.8
V	14412.000	36.2	33	40.0	43.2	54.0	-34.8

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2402.000	95.8	33	29.4	92.2	114.0	-21.8
V	4804.000	40.6	33	34.9	42.5	74.0	-31.5
H	7206.000	40.5	33	37.9	45.4	74.0	-28.6
V	9608.000	39.4	33	40.4	46.8	74.0	-27.2
V	12010.000	42.9	33	40.5	50.4	74.0	-23.6
V	14412.000	46.2	33	40.0	53.2	74.0	-20.8

NOTES:

1. Peak Detector Data unless otherwise stated. Average detector is used for the average data of emission measurement.
2. All measurements were made at 3 meters.
3. Negative sign in the column shows value 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-210 4.1.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

Model: Desk21T-03

Date of Test: May 24, 2021

Worst-Case Operating Mode: Transmitting (Bluetooth 3.0)

**Table 2**  
**Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement**

Middle Channel

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2440.000	67.1	33	29.4	63.5	94.0	-54.5
H	4880.000	26.5	33	34.9	28.4	54.0	-49.6
H	7320.000	27.5	33	37.9	32.4	54.0	-45.6
H	9760.000	26.4	33	40.4	33.8	54.0	-44.2
V	12200.000	29.2	33	40.5	36.7	54.0	-41.3
V	14640.000	38.2	33	38.4	43.6	54.0	-34.4

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2440.000	96.0	33	29.4	92.4	114.0	-21.6
H	4880.000	41.3	33	34.9	43.2	74.0	-30.8
H	7320.000	41.3	33	37.9	46.2	74.0	-27.8
H	9760.000	39.2	33	40.4	46.6	74.0	-27.4
V	12200.000	42.7	33	40.5	50.2	74.0	-23.8
V	14640.000	47.8	33	38.4	53.2	74.0	-20.8

NOTES:

1. Peak Detector Data unless otherwise stated. Average detector is used for the average data of emission measurement.
2. All measurements were made at 3 meters.
3. Negative sign in the column shows value 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-210 4.1.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

Model: Desk21T-03

Date of Test: May 24, 2021

Worst-Case Operating Mode: Transmitting (Bluetooth 3.0)

Table 3  
**Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement**

Highest Channel

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
H	2480.000	67.2	33	29.4	63.6	94.0	-54.4
H	4960.000	27.3	33	34.9	29.2	54.0	-48.8
H	7440.000	27.6	33	37.9	32.5	54.0	-45.5
H	9920.000	27.4	33	40.4	34.8	54.0	-43.2
H	12400.000	29.3	33	40.5	36.8	54.0	-41.2
V	14880.000	39.0	33	38.4	44.4	54.0	-33.6

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
H	2480.000	96.4	33	29.4	92.8	114.0	-21.2
H	4960.000	40.3	33	34.9	42.2	74.0	-31.8
H	7440.000	40.5	33	37.9	45.4	74.0	-28.6
H	9920.000	41.0	33	40.4	48.4	74.0	-25.6
H	12400.000	42.9	33	40.5	50.4	74.0	-23.6
V	14880.000	48.0	33	38.4	53.4	74.0	-20.6

NOTES:

1. Peak Detector Data unless otherwise stated. Average detector is used for the average data of emission measurement.
2. All measurements were made at 3 meters.
3. Negative sign in the column shows value 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-210 4.1.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

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Model: Desk21T-03

Date of Test: May 24, 2021

Worst-Case Operating Mode: WiFi + Bluetooth

Table 4  
**Pursuant to FCC Part 15 Section 15.209 / RSS-210 4.4 Requirement**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	45.232	31.8	16	10.0	25.8	40.0	-14.2
V	55.348	30.4	16	11.0	25.4	40.0	-14.6
V	75.702	41.2	16	6.0	31.2	40.0	-8.8
V	600.006	21.8	16	29.0	34.8	46.0	-11.2
H	800.125	21.5	16	31.0	36.5	46.0	-9.5
V	999.998	27.0	16	33.0	44.0	54.0	-10.0

NOTES:

1. Quasi-Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters.
3. Negative sign in the column shows value 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-210 4.1.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

### 4.0 EQUIPMENT PHOTOGRAPHS

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

### 5.0 PRODUCT LABELLING

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

### 6.0 TECHNICAL SPECIFICATIONS

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

### 7.0 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 and Canada.

## TEST REPORT

### 8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

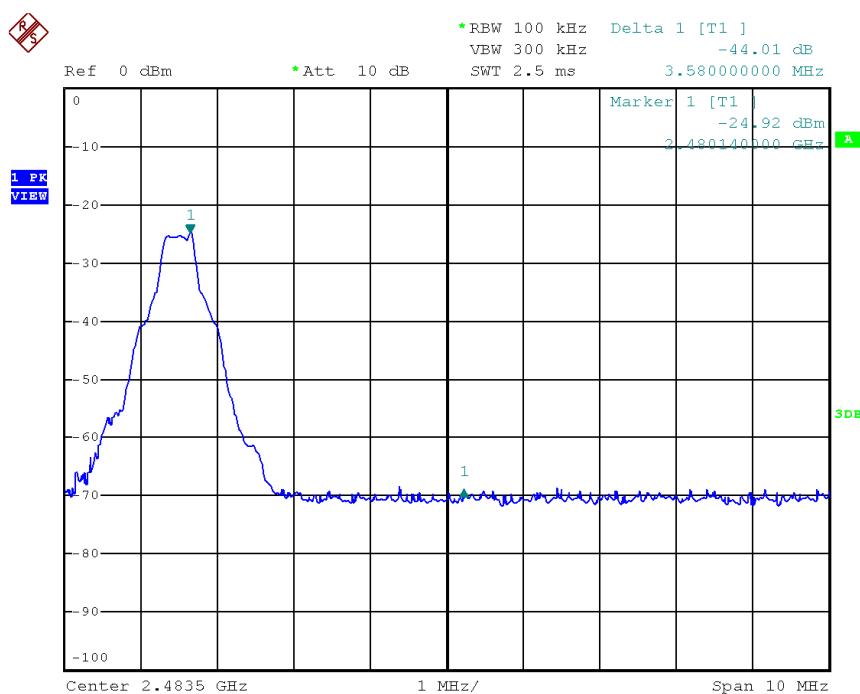
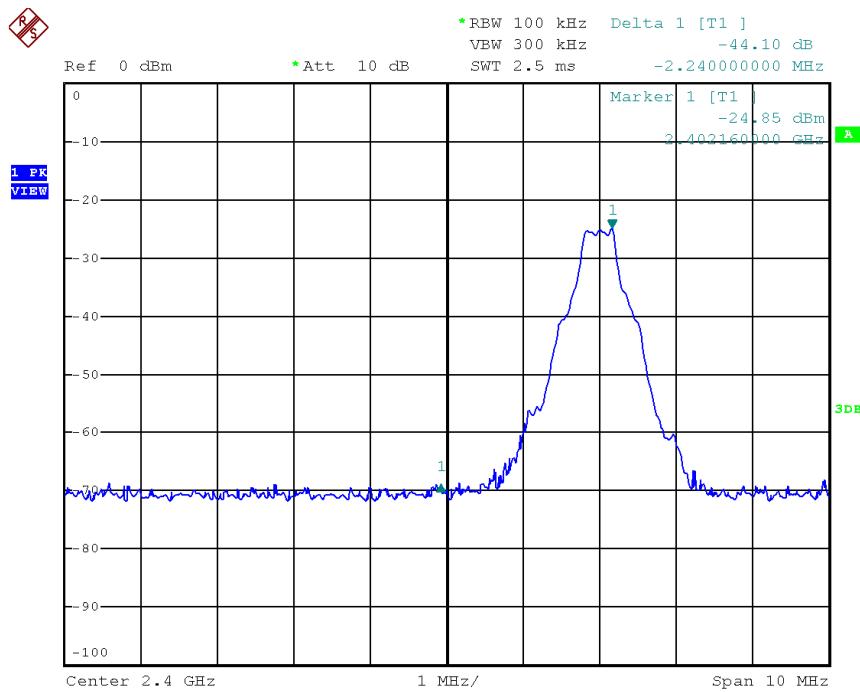
#### 8.1 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.10 (2013) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209 / RSS-210 4.4, whichever is the lesser attenuation, which meet the requirement of part 15.249(d) / RSS-210 B.10.

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### PEAK MEASUREMENT (Bluetooth 3.0)



## TEST REPORT

### PEAK MEASUREMENT (Bluetooth 3.0)

Bandedge compliance is determined by applying marker-delta method, i.e. (Bandedge Plot).

Lower bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

$$=92.2 \text{ dB}\mu\text{V/m} - 44.1 \text{ dB}$$

$$=48.1 \text{ dB}\mu\text{V/m}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

$$=63.4 \text{ dB}\mu\text{V/m} - 44.1 \text{ dB}$$

$$=19.3 \text{ dB}\mu\text{V/m}$$

Upper bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

$$=92.8 \text{ dB}\mu\text{V/m} - 44.0 \text{ dB}$$

$$=48.8 \text{ dB}\mu\text{V/m}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

$$=63.6 \text{ dB}\mu\text{V/m} - 44.0 \text{ dB}$$

$$=19.6 \text{ dB}\mu\text{V/m}$$

The resultant field strength meets the general radiated emission limit in Section 15.209 / RSS-210 4.4, which does not exceed 74 dB $\mu$ V/m (Peak Limit) and 54 dB $\mu$ V/m (Average Limit).

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### 8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 625  $\mu$ s for a digital “1” bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 3MHz, so the pulse desensitivity factor is 0dB.

### 8.3 Calculation of Average Factor

N/A

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### 8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are 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 8.3.

The frequency range scanned is 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 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

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### 8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

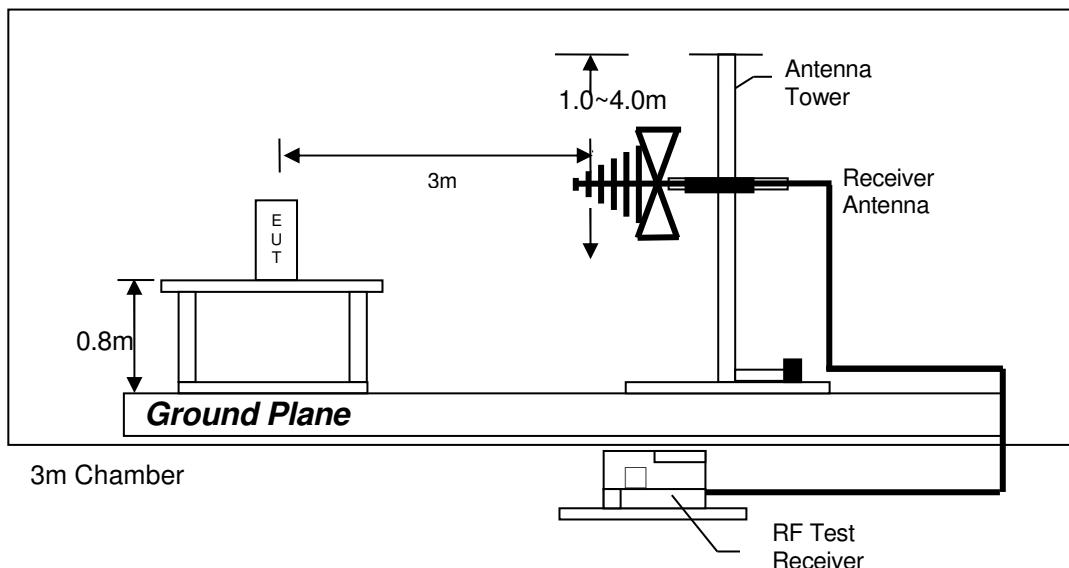
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

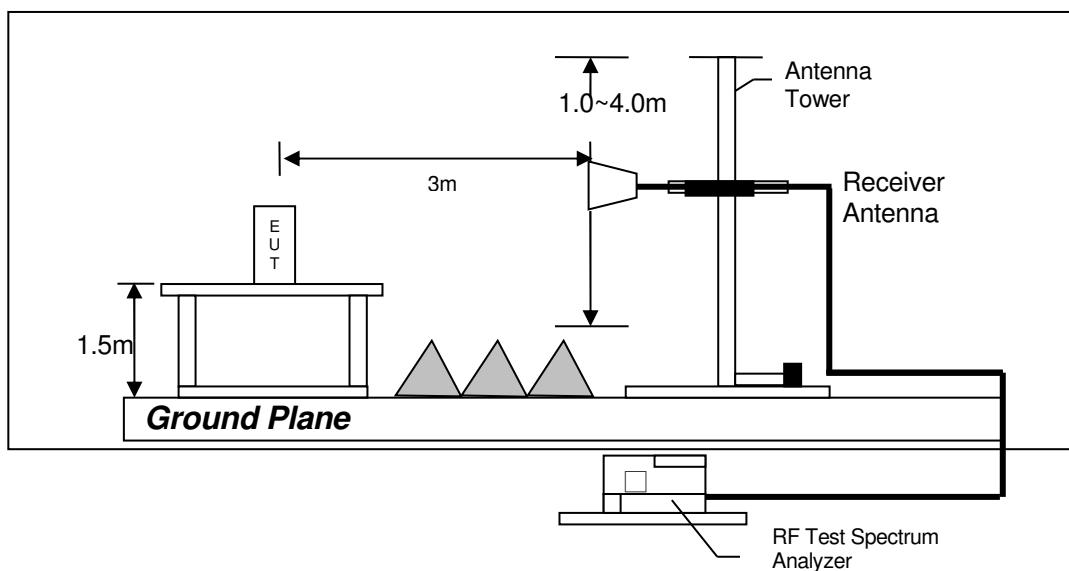
## TEST REPORT

### 8.4.1 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

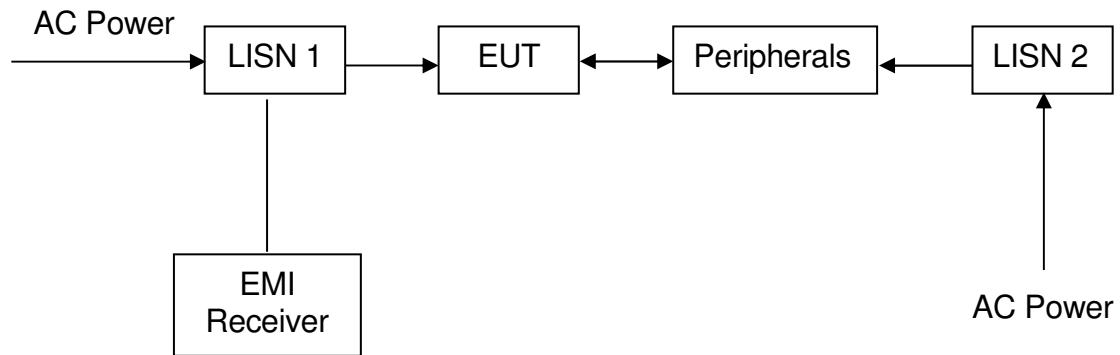
## TEST REPORT

### 8.4.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. 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.

### 8.4.3 Conducted Emission Test Setup



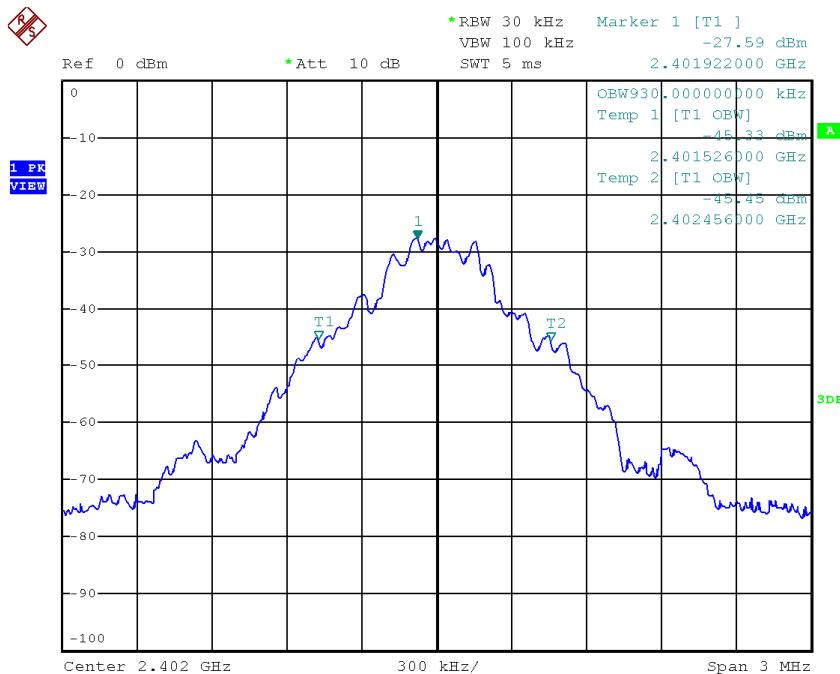
## TEST REPORT

### 8.5 Occupied Bandwidth

Occupied Bandwidth Results: (Bluetooth 3.0)

Bluetooth (MHz)	Occupied Bandwidth (kHz)
Low Channel: 2402	930
Middle Channel: 2440	924
High Channel: 2480	924

The worst case is shown as below



## TEST REPORT

### 9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

### 10.0 EQUIPMENT LIST

#### 1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna (20MHz to 200MHz)
Registration No.	EW-3156	EW-2466	EW-2512
Manufacturer	ROHDE SCHWARZ	ROHDE SCHWARZ	EMCO
Model No.	ESR26	FSP30	3104C
Calibration Date	January 25, 2021	September 05, 2020	June 03, 2020
Calibration Due Date	January 25, 2022	September 05, 2021	December 03, 2021

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna	Active Loop H-field (9kHz to 30MHz)
Registration No.	EW-0447	EW-0194	EW-2313
Manufacturer	EMCO	EMCO	ELECTROMETRI
Model No.	3146	3115	EM-6876
Calibration Date	September 25, 2019	June 03, 2021	December 17, 2019
Calibration Due Date	June 25, 2021	June 03, 2022	June 17, 2021

Equipment	RF Cable 14m (1GHz to 26.5GHz)	14m Double Shield RF Cable (20MHz to 6GHz)	12 metre RF Cable 40GHz
Registration No.	EW-2781	EW-2074	EW-2774
Manufacturer	GREATBILLION	RADIALL	GREATBILLION
Model No.	SMA m/SHF5MPU /SMA m ra14m,26G	N(m)-RG142-BNC(m) L= 14M	SMA m-m ra 12m 40G outdoor
Calibration Date	November 24, 2020	August 29, 2020	September 12, 2020
Calibration Due Date	November 24, 2021	August 29, 2021	September 12, 2021

**TEST REPORT**

## 2) Conducted Emissions Test

Equipment	RF Cable 240cm (RG142) (9kHz to 30MHz)	Artificial Mains Network	EMI Test Receiver
Registration No.	EW-2454	EW-2501	EW-2500
Manufacturer	RADIALL	ROHDESGHARZ	ROHDESGHARZ
Model No.	bnc m st / 142 /bnc m ra 240cm	ENV-216	ESCI
Calibration Date	November 10, 2020	September 11, 2020	March 29, 2021
Calibration Due Date	November 10, 2021	September 11, 2021	March 29, 2022

## 3) Bandedge &amp; Bandwidth Measurement

Equipment	5m RF Cable (40GHz)	Spectrum Analyzer
Registration No.	EW-2701	EW-2466
Manufacturer	RADIALL	ROHDESGHARZ
Model No.	sma m-m 5m 40G	FSP30
Calibration Date	November 24, 2020	September 05, 2020
Calibration Due Date	November 24, 2021	September 05, 2021

**END OF TEST REPORT**