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**Applicant:** LINKHIGH INTERNATIONAL LIMITED

Room 202B, 2/F, Building 9, Dong Yi Ind, Zhong Huan Rd, Shang

Tang, Long Hua, Shenzhen, China 518131

Supplier / Manufacturer: LINKHIGH INTERNATIONAL LIMITED

Room 202B, 2/F, Building 9, Dong Yi Ind, Zhong Huan Rd, Shang

Tang, Long Hua, Shenzhen, China 518131

**Description of Sample(s):** Submitted sample(s) said to be

Product: Temperature & Humidity Sensor

Brand Name: N/A

Model No.: EN00106001 FCC ID: 2APRCEN01

**Date Samples Received:** 2018-05-03

**Date Tested:** 2018-05-10 to 2018-05-18

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with

FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI

C63.10:2013 for FCC Certification.

**Conclusions:** The submitted product COMPLIED with the requirements of Federal

Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described

above and on Section 2.2 in this Test Report.

**Remarks:** IEEE 802.15.4 (2.4GHz)

CHEUNG Chi, Kennethen and Signatory

Electro Magnetic Compatibility Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.



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### 1.0 General Details

### 1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.

**EMC Laboratory** 

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Telephone: 852 2666 1888 Fax: 852 2664 4353

### 1.2 Equipment Under Test [EUT]

**Description of Sample(s)** 

Product: Temperature & Humidity Sensor Additional Product Name: Touch Sensor, Entry Sensor

Manufacturer: LINKHIGH INTERNATIONAL LIMITED

Room 202B, 2/F, Building 9, Dong Yi Ind, Zhong Huan Rd,

Shang Tang, Long Hua, Shenzhen, China 518131

Brand Name: N/A

Model Number: EN00106001

Additional Model Number: MV00106001, DW00106001

Rating: 3.0[V] (2.4~ 3.6V, Coin Cell Battery CR2077 1ea)

### 1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a 2.4GHz Sensor. The transmission signal is digital modulated with channel frequency range 2405-2475MHz. The R.F. signal was modulated by IC; the type of modulation used was O-QPSK.

### 1.3 Date of Order

2018-05-03

### 1.4 Submitted Sample(s):

2 Samples

### 1.5 Test Duration

2018-05-10 to 2018-05-18

### 1.6 Country of Origin

China



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#### 1.7 RF Module Details

Module Model Number:

Module FCC ID: N/A

Module Transmission Type: Bluetooth V4.0 BLE

Modulation: O-QPSK Data Rates: 1Mbps

Frequency Range: 2400-2483.5MHz Carrier Frequencies: 2405MHz – 2480MHz

Module Specification (specification provided by manufacturer)

### 1.8 Antenna Details

Antenna Type: Patched Antenna

Antenna Gain: 2.5dBi

### 1.9 Channel List

Channel	Frequency (MHz)
11	2405
12	2410
13	2415
14	2420
15	2425
16	2430
17	2435
18	2440
19	2445
20	2450
21	2455
22	2460
23	2465
24	2470
25	2475



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2.0 Technical Details

### 2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification. According FCC KDB 558074 DTS Measurement Guidance, Duty cycle  $\geq$  98%. The device was realized by test software.

### 2.2 Test Standards and Results Summary Tables

EMISSION										
Results Summary										
Test Condition	Test Requirement	Test Method	Class /	Т	est Result					
			Severity	Pass	Failed	N/A				
Maximum Peak Output Power	FCC 47CFR 15.247(b)(3)	ANSI C63.10: 2013	N/A	$\boxtimes$						
Radiated Spurious Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	$\boxtimes$						
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A			$\boxtimes$				
Power Spectral Density	FCC 47CFR 15.247(e)	ANSI C63.10: 2013	N/A	$\boxtimes$						
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2013	N/A	$\boxtimes$						
Band Edge Emissions (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2013	N/A	$\boxtimes$						
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	$\boxtimes$						
RF Exposure	FCC 47CFR 15.247(i)	N/A	N/A	$\boxtimes$						

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

### 3.1.1 Maximum Peak Output Power

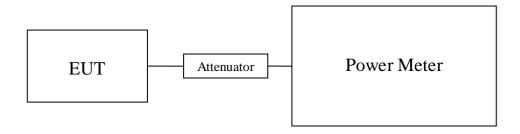
Test Requirement: FCC 47CFR 15.247(b)(2)
Test Method: ANSI C63.10:2013

Test Date: 2018-05-10 Mode of Operation: Tx mode

#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

### **Test Setup:**



Note: a temporary antenna connector was soldered to the RF output.



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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of BT DTS Tx Mode (2405MHz to 2480MHz): Pass (TX Unit) (GFSK) Maximum conducted output power

Channel	Frequency(MHz)	Output Power(Watt)
11	2405	0.00381
18	2440	0.00277
25	2480	0.00373

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB

1GHz to 26GHz 1.7dB



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#### 3.1.2 Radiated Emissions

Test Requirement: FCC 47CFR 15.209
Test Method: ANSI C63.10:2013
Test Date: 2018-05-10
Mode of Operation: Tx mode

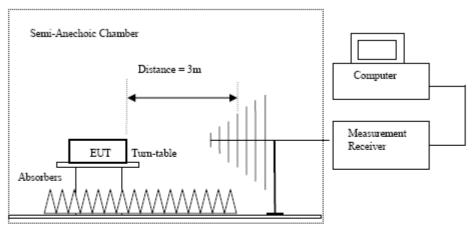
#### Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* The Hong Kong Standards and Testing Centre Ltd.

FCC Test Firm Registration Number 723883 Designation Number HK0001

### **Test Setup:**



Ground Plane

- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz hom antennas are used, 9kHz to 30MHz loop antennas are used.



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### Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.



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Result of Tx mode (2405.0 MHz) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions								
Peak Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m			
Emissions detected are more than 20 dB below the Limits								

#### Result of Tx mode (2405.0 MHz) (Above 1GHz): Pass

Field Strength of Spurious Emissions							
			Peak Value				
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m		
4810.0	3.3	32.1	35.4	74.0	38.6	Horizontal	
7215.0	2.3	38.6	40.9	74.0	33.1	Horizontal	
9620.0	-1.8	41.3	39.5	74.0	34.5	Vertical	
12025.0	-3.1	43.5	40.4	74.0	33.6	Vertical	

Field Strength of Spurious Emissions								
		A	verage Valu	e				
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m			
4810.0	-2.5	32.1	29.6	54.0	24.4	Horizontal		
7215.0	-3.1	38.6	35.5	54.0	18.5	Horizontal		
9620.0	-7.6	41.3	33.7	54.0	20.3	Vertical		
12025.0	-8.5	43.5	35.0	54.0	19.0	Vertical		



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Result of Tx mode (2440.0 MHz) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
Peak Value								
Frequency	Frequency Measured Correction Field Field Limit E-Field							
	Level	Factor	Strength	Strength		Polarity		
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m			
Emissions detected are more than 20 dB below the Limits								

Result of Tx mode (2440.0 MHz) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m		
4880.0	2.3	32.1	34.4	74.0	39.6	Horizontal	
7320.0	2.1	38.6	40.7	74.0	33.3	Horizontal	
9760.0	-1.7	41.3	39.6	74.0	34.4	Vertical	
12200.0	-3.5	43.5	40.0	74.0	34.0	Vertical	

Field Strength of Spurious Emissions								
	Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m			
4880.0	-2.7	32.1	29.4	54.0	24.6	Horizontal		
7320.0	-3.4	38.6	35.2	54.0	18.8	Horizontal		
9760.0	-7.7	41.3	33.6	54.0	20.4	Vertical		
12200.0	-8.3	43.5	35.2	54.0	18.8	Vertical		



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Result of Tx mode (2480.0 MHz) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions								
Peak Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dBuV	dB/m	dBuV/m	uV/m	uV/m			
Emissions detected are more than 20 dB below the Limits								

Result of Tx mode (2480.0 MHz) (Above 1GHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	
4950.0	3.3	32.2	35.5	74.0	38.5	Horizontal
7425.0	0.3	38.6	38.9	74.0	35.1	Horizontal
9900.0	-1.5	42.1	40.6	74.0	33.4	Vertical
12375.0	-3.5	44.1	40.6	74.0	33.4	Vertical

Field Strength of Spurious Emissions Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	
4950.0	-2.3	32.2	29.9	54.0	24.1	Horizontal
7425.0	-3.1	38.6	35.5	54.0	18.5	Horizontal
9900.0	-7.1	42.1	35.0	54.0	19.0	Vertical
12375.0	-8.4	44.1	35.7	54.0	18.3	Vertical



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#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 9kHz-30MHz 3.3dB

30MHz -1GHz 4.6dB 1GHz -26GHz 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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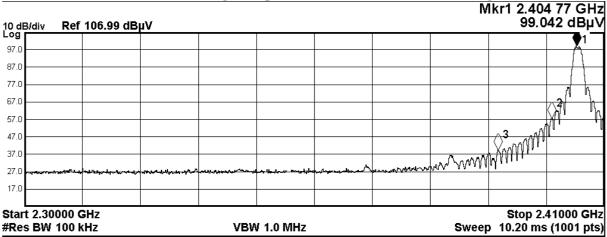
### **Band Edge Measurement:**

#### Limit:

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2400 – Lowest Fundamental (2405)	41.6

#### Conducted Band-edge Compliance Measurement – Lower band edge



MKR MODE	TRC :	SCL	×	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1 N	1	f	2.404 77 GHz	99.042 dBµV			
2 N	1	f	2.400 00 GHz	57.469 dBµV			
3 N	1	f	2.389 87 GHz	39.395 dBµV			
4			·			·	

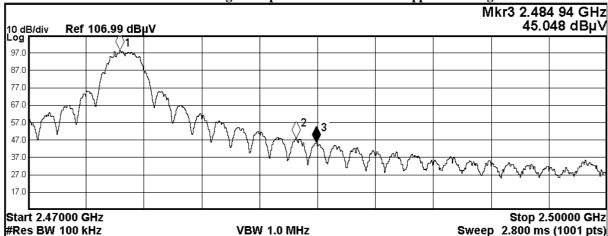


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**Band-edge Compliance of RF Conducted Emissions Measurement:** 

Frequency Range	Radiated Emission Attenuated below the Fundamental
[MHz]	[dB]
2483.5 - Highest Fundamental (2480)	50.6

Conducted Band-edge Compliance Measurement- Upper band edge



MKR MODE TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE ^
1 N 1 f	2.474 74 GHz	98.482 dBµV			
2 N 1 f	2.483 89 GHz	47.917 dBµV			
3 N 1 f	2.484 94 GHz	45.048 dBµV			
4					



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### Radiated Emissions Band-edge and Restricted Band Result:

Field Strength of Band-edge Compliance Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	
2389.9	14.7	27.9	42.6	74.0	31.4	Horizontal
2389.9	13.2	27.5	40.7	74.0	33.3	Vertical
2489.9	19.4	27.9	47.3	74.0	26.7	Horizontal
2489.9	17.8	27.5	45.3	74.0	28.7	Vertical

Field Changth of Dand adag Compliance						
	Field Strength of Band-edge Compliance					
		A	verage Valu	e		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	
2389.9	3.4	27.9	31.3	54.0	22.7	Horizontal
2389.9	2.3	27.5	29.8	54.0	24.2	Vertical
2489.9	9.3	27.9	37.2	54.0	16.8	Horizontal
2489.9	8.0	27.5	35.5	54.0	18.5	Vertical



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### Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

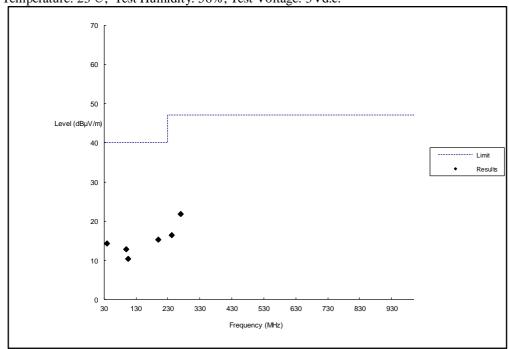
Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Results of Tx Mode (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)

Test Temperature: 23°C, Test Humidity: 56%, Test Voltage: 3Vd.c.





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Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit	
Frequency	Polarity	@3m	@3m	@3m	@3m	
MHz		$dB\mu V/m$	$dB\mu V/m$	$\mu V/m$	$\mu V/m$	
41.3	Vertical	14.3	40.0	5.2	150	
99.6	Horizontal	12.7	43.5	4.3	150	
105.6	Horizontal	10.3	43.5	3.3	150	
201.3	Horizontal	15.3	43.5	5.8	200	
242.3	Horizontal	16.3	46.0	6.5	200	
271.4	Horizontal	21.7	46.0	12.2	200	

### Remarks:

Calculated measurement uncertainty (30MHz - 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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### 3.1.3 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2013

Test Date: 2018-05-10 Mode of Operation: Tx mode

#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10kHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. The Measured values are using RBW = 30kHz, the correction factor is, 10Log(3k/30kHz) = -10dB

### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

#### **Test Limit:**

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Results of Tx Mode (Tx:2405MHz to 2480MHz): Pass (Tx Unit) Maximum power spectral density

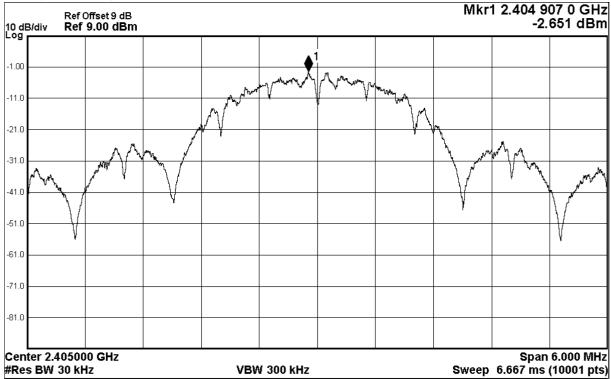
Transmitter	Maximum Power	Maximum Power
Frequency	spectral density level /	spectral density /
(MHz)	3kHz band (dBm)	3kHz band limit
2405.0	-12.7	8dBm
2440.0	-11.8	8dBm
2475.0	-12.5	8dBm



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**Tx mode (Tx: 2405MHz to 2475MHz)** 

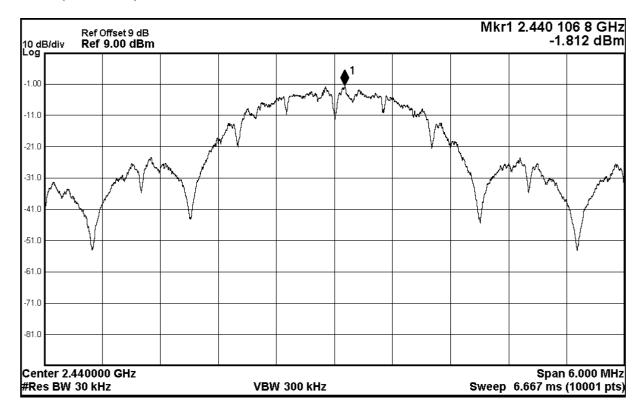
CH 0 (2405.0 MHz)





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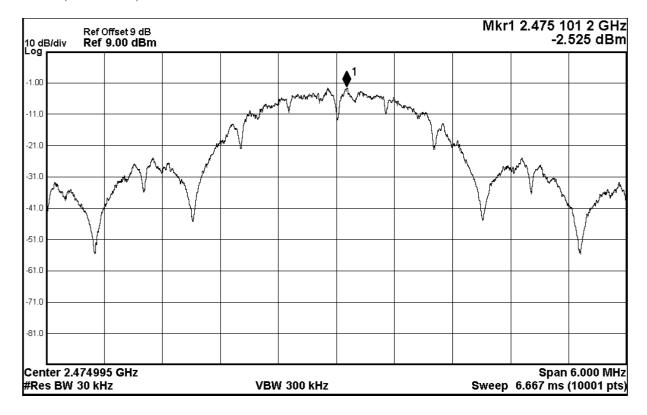
CH 19 (2440.0 MHz)





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CH 39 (2475.0 MHz)





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### 3.1.4 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2013
Test Date: 2018-05-10

Test Date: 2018-05-10
Mode of Operation: Tx mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

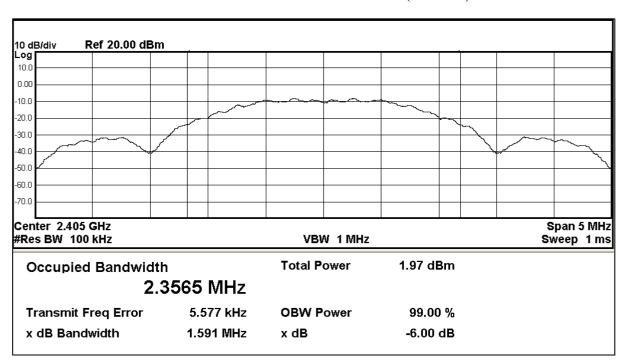


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### **Limits for 6dB Spectrum Bandwidth Measurement:**

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
2405.0	1591	> 500

#### 6dB Bandwidth of Fundamental Emission on (2405MHz)



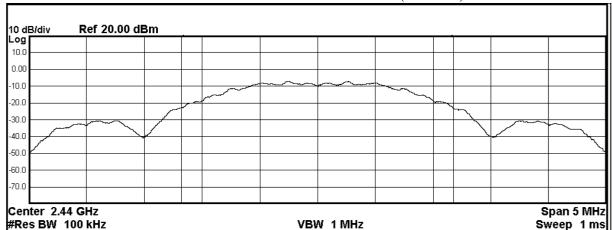


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### **Limits for 6dB Spectrum Bandwidth Measurement:**

Frequency Range	6dB Bandwidth	FCC Limits		
[MHz]	[kHz]	[kHz]		
2440.0	1578	> 500		

### 6dB Bandwidth of Fundamental Emission on (2440MHz)



Occupied Bandwidth Total Power 2.92 dBm

2.3483 MHz

Transmit Freq Error 999 Hz OBW Power 99.00 % x dB Bandwidth 1.578 MHz x dB -6.00 dB

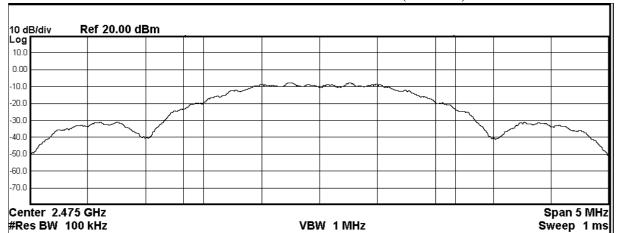


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### **Limits for 6dB Spectrum Bandwidth Measurement:**

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[kHz]	[kHz]
2475.0	1580	> 500

### 6dB Bandwidth of Fundamental Emission on (2475MHz)



Occupied Bandwidth Total Power 2.28 dBm

2.3483 MHz

Transmit Freq Error -2.109 kHz OBW Power 99.00 % x dB Bandwidth 1.580 MHz x dB -6.00 dB



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3.1.5 RF Exposure

### **RF** Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2018-05-18 Mode of Operation: Tx mode

### **Requirements:**

In 15.247(i), an equipment shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the limits in §§ 1.1310 and 2.1093 of this chapter.

Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request.

According to KDB447498 D01 General RF Exposure Guidance v06, unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition.

### **Test Results:**

### **RF Exposure Evaluation**

The Maximum tune-up power = 6.01 dBm (3.99 mW)

SAR Test Exclusion Thresholds=1.98≤3.0 for 1-g SAR,

The test separation distances is  $\leq 5$  mm The power tune up tolerance is  $4.31\pm1.70$ dBm Max. duty factor is 100%



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### Appendix A

### **List of Measurement Equipment**

### **Radiated Emission**

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3		2018/01/24	2019/01/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM354	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00142073	2018/03/29	2020/03/29
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2017/06/01	2018/06/01
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB- 10180-SF	J203109090300 7	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2016/05/13	2018/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2016/05/13	2018/05/13
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2016/05/11	2018/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2016/05/11	2018/05/11
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/04/16	2020/04/16
EM318	USB WIDEBAND POWER SENSOR	AGILENT	U2022XA	MY53470001	2017/03/05	2019/03/05

#### Remarks:-

CM Corrective Maintenance

N/A Not Applicable TBD To Be Determined



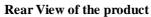
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Appendix B

Photographs of EUT

### Front View of the product





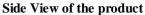




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Appendix B

Photographs of EUT





Side View of the product



Side View of the product



**Side View of the product** 





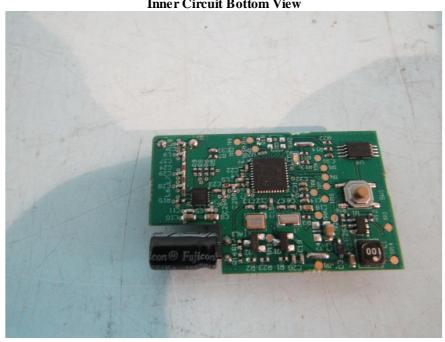
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Photographs of EUT

### **Inner Circuit Top View**



**Inner Circuit Bottom View** 

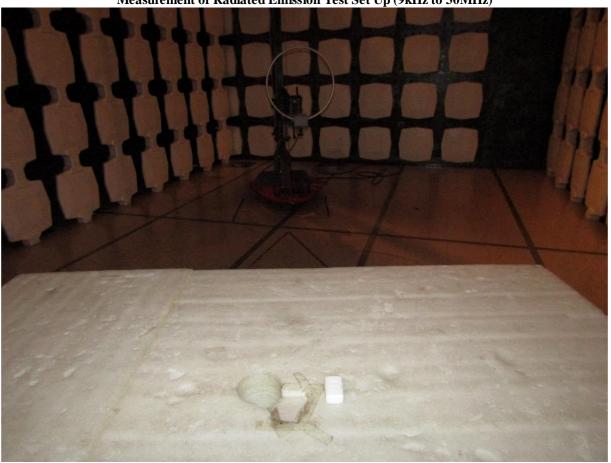




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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz to 30MHz)





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Photographs of EUT

Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)





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Photographs of EUT

Measurement of Radiated Emission Test Set Up (Above 1000MHz)



\*\*\*\*\* End of Test Report \*\*\*\*\*

### **Conditions of Issuance of Test Reports**

- 1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
- 10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.