# **FCC Test Report**

# Report No.: AGC02009170304FE03

FCC ID	: YJ709472-8154			
	: 1)/074/2-0134			
APPLICATION PURPOSE	: Original Equipment			
PRODUCT DESIGNATION	: 2.4GHz Wireless Inspection Camera			
BRAND NAME	: N/A			
MODEL NAME	: DCT410, DCT411, DCT412			
CLIENT	: Stanley Black & Decker			
DATE OF ISSUE	: Mar. 28, 2017			
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Rules			
<b>REPORT VERSION</b>	: V1.0			
Attestation of Global Compliance (Shenzhen) Co., Ltd				
CAUTION:				
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# **Report Revise Record**

<b>Report Version</b>	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 28, 2017	Valid	Original Report

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Applicant	Stanley Black & Decker			
Address	701 E. Joppa Road, Towson, MD-21286 USA.			
Manufacturer	ShenZhen Gospell Smarthome Electronic Co., Ltd.			
Address	East of 01st-04st Floor, Block A, No.1 Industrial park, Fenghuanggang, South of No.1 Baotian Road, Xixiang street, Bao'an District, Shenzhen City, Guangdong Province 518126, P.R.China			
Product Designation	2.4GHz Wireless Inspection Camera			
Brand Name	N/A			
Test Model	DCT410			
Series Model	DCT411, DCT412			
Model Difference	All the same except for the tube.			
Date of test	Mar. 21, 2017 to Mar. 22, 2017			
Deviation	None			
Condition of Test Sample	Normal			
Report Template	AGCRT-US-BR/RF			
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# **1. VERIFICATION OF CONFORMITY**

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Max 2han Tested by Mar. 28, 2017 Max Zhang(Zhang Yi) BONPL xie Reviewed by Bart Xie(Xie Xiaobin)) Mar. 28, 2017 Approved by Solger Zhang(Zhang Hongyi) Mar. 28, 2017 Authorized Officer

# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2468MHz
Maximum field strength	86.73dBuV(AV)@3m
Modulation	FM
Number of channels	1
Hardware Version	GB8808M05
Software Version	N/A
Antenna Designation	Fixed Antenna
Antenna Gain	2dBi
Power Supply	DC12V by battery

# **3. MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement y  $\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %  $\circ$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions, radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

# 4. DESCRIPTION OF TEST MODES

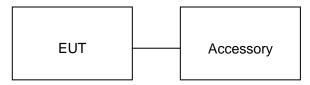
NO.	TEST MODE DESCRIPTION				
1	Transmitting mode				
Note:	Note:				
1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.					
2. Fo	2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.				

3. The EUT used fully-charged battery when tested.

# **5. SYSTEM TEST CONFIGURATION**

#### **5.1. CONFIGURATION OF EUT SYSTEM**

Configure :



## 5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	2.4GHz Wireless Inspection	N/A	DCT410	EUT
2	Battery	N/A	DCB127	Support
3	Monitor	N/A	N/A	AE
4	Camera with LED	N/A	N/A	AE

#### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant

## 6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.		
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.		
FCC Registration No. 371540			
<b>Description</b> The test site is constructed and calibrated to meet the FCC requirements i documents ANSI C63.4:2014.			

#### ALL TEST EQUIPMENT LIST

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017

## 7. RADIATED EMISSION

#### 7.1TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics	
	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

#### Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
MHz) Meters		μ V/m	dB(µV)/m				
0.009 ~ 0.490	300	2400/F(kHz)					
0.490 ~ 1.705	30	24000/F(kHz)					
1.705 ~ 30	30	30					
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	Above 1000 3 Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)						
Remark: (1) Emission le	Remark: (1) Emission level dB $\mu$ V = 20 log Emission level $\mu$ V/m						
(2) The smaller limit shall apply at the cross point between two frequency bands.							

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 7.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

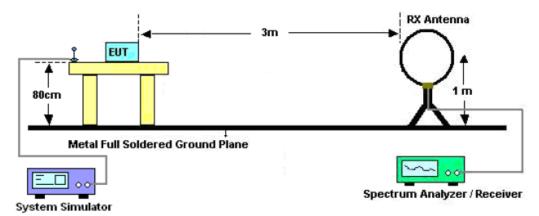
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting		
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP		
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP		
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP		
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average		

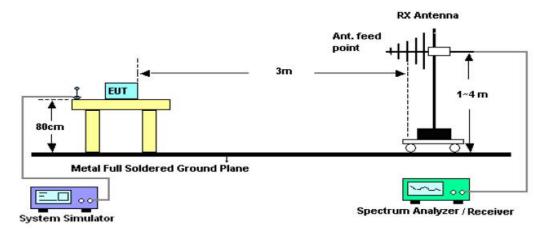
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

#### 7.3. TEST SETUP

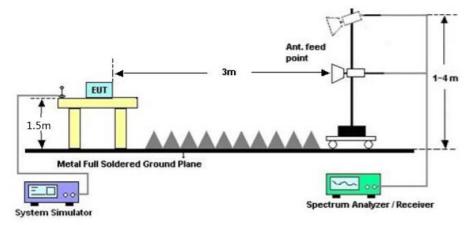
Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



#### 7.4. TEST RESULT

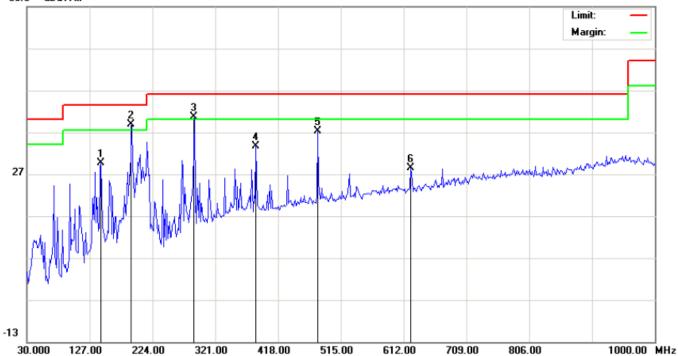
#### **RADIATED EMISSION BELOW 30MHZ**

# No emission found between lowest internal used/generated frequencies to 30MHz.

#### **RADIATED EMISSION 30MHz-1GHZ**

EUT :	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Horizontal

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		144.7831	15.54	14.04	29.58	43.50	-13.92	peak			
2	*	191.6665	27.20	11.61	38.81	43.50	-4.69	peak			
3	İ	288.6666	27.19	13.48	40.67	46.00	-5.33	peak			
4		384.0500	14.73	18.96	33.69	46.00	-12.31	peak			
5		479.4331	16.24	20.91	37.15	46.00	-8.85	peak			
6		623.3165	4.61	23.79	28.40	46.00	-17.60	peak			

#### **RESULT: PASS**

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	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Vertical

66.9 dBuV/m Limit: Margin: 6 27 -13 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		47.7832	7.02	8.39	15.41	40.00	-24.59	peak			
2		164.1833	1.35	15.07	16.42	43.50	-27.08	peak			
3		215.9165	14.51	10.56	25.07	43.50	-18.43	peak			
4		550.5665	3.14	22.48	25.62	46.00	-20.38	peak			
5		794.6833	2.17	27.25	29.42	46.00	-16.58	peak			
6	*	959.5833	2.43	29.91	32.34	46.00	-13.66	peak			

# **RESULT: PASS**

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

EUT :	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Horizontal

#### **RADIATED EMISSION ABOVE 1GHZ**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
2468.013	106.35	-9.37	96.98	114	-17.02	peak		
2468.013	96.10	-9.37	86.73	94	-7.27	AVG		
4936.026	49.37	3.74	53.11	74	-20.89	peak		
4936.026	39.23	3.74	42.97	54	-11.03	AVG		
7404.039	42.31	8.14	50.45	74	-23.55	peak		
7404.039	7404.039 32.05 8.14 40.19 54 -13.81 AVG							
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUI ·	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2468.013	104.28	-9.37	94.91	114	-19.09	peak	
2468.013	93.95	-9.37	84.58	94	-9.42	AVG	
4936.026	49.07	3.74	52.81	74	-21.19	peak	
4936.026	38.83	3.74	42.57	54	-11.43	AVG	
7404.039	41.38	8.14	49.52	74	-24.48	peak	
7404.039 31.19 8.14 39.33 54 -14.67 AVG							
Remark:							
-actor = Antenna Factor + Cable Loss – Pre-amplifier.							

Note: Other emission from 8G to 25 GHz are considered as ambient noise. No recording in the test report. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

# 8. BAND EDGE EMISSION

#### 8.1. MEASUREMENT PROCEDURE

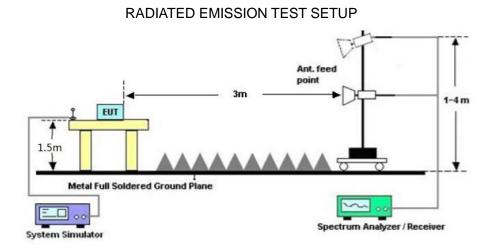
1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

3. Other procedures refer to clause 7.2.

#### 8.2 TEST SETUP



#### Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

## 8.3 RADIATED TEST RESULT

	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Horizontal

Mailent Spectrum Analyzer - Swept SA				
Marker 2 2.40000000000000000000000000000000000		Avg Type: Log-Pwr	TRACE 123456 TYPE MWWWWW	Peak Search
10 dB/div Ref 106.99 dBµV	IFGain:Low #Atten: 10 d	B	2.400 000 GHz 39.400 dBµV	Next Peak
97.0 87.0 77.0				Next Pk Right
67.0 57.0 47.0	¢2	Provide the second s	And the second s	Next Pk Left
37.0		and a harden and a harden and		Marker Delta
Start 2.37000 GHz Res BW 1.0 MHz MKR MODE TRC SCL X	#VBW 3.0 MHz	FUNCTION FUNCTION WIDTH	Stop 2.47500 GHz .000 ms (1001 pts)	Mkr→CF
	اµ45 GHz 96.980 dBµV 000 GHz 39.400 dBµV		== 	Mkr→RefLvl
7 8 9 10 11				More 1 of 2
MSG		STATU	5	

PK Value

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EUT :	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Vertical

Magilent Spectrum Analyzer - Swept SA					
Marker 1 2.4696450000	00 GHz	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6	Peak Search
10 dB/div Ref 106.99 dB	PNO: Fast IFGain:Low	#Atten: 10 dB		2.469 645 GHz 94.914 dBµV	Next Peak
97.0 77.0					Next Pk Right
67.0 57.0 47.0	<mark>2</mark>			approximation of the second se	Next Pk Left
37.0	the collection account	الم بار می از این می این این می می این این می می این این این این این می می این این می می می این این می می می م این می	hou day on dealer of the day of t		Marker Delta
Start 2.37000 GHz Res BW 1.0 MHz		3.0 MHz	Sweep 1.	Stop 2.47500 GHz 000 ms (1001 pts)	Mkr→CF
1    N    1    f    2.      2    N    1    f    2.      3    4    5    5    6	× 469 645 GHz 400 000 GHz	Υ F∪ 94.914 dBμV 36.667 dBμV	NCTION FUNCTION WIDTH	FUNCTION VALUE	Mkr→RefLvl
7 8 9 10 11 •		111		÷	More 1 of 2
MSG			STATUS		

#### PK Value

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EUT :	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Horizontal

🔰 Agilent Spectrum Analyzer - Swept SA					
Marker 2 2.469640000		SENSE:INT	Avg Type: Log-Pwr	TRACE 123456	Peak Search
	PNO: Fast C	Trig: Free Run #Atten: 10 dB	Avg Hold:>100/100	DET P NNNN	
			Mkr	2 2.469 64 GHz	NextPeak
10 dB/div Ref 106.99 dl				96.993 dBµV	
97.0	2				
87.0					Next Pk Right
77.0	<u> </u>				
67.0					Next Dist. of
57.0	\\\				Next Pk Left
47.0		A THE SAME AND A SAME		Luch a	
27.0			and the second of the second o	Wall - Part and a start and a start	MarkerDelta
17.0					Warker Deita
Start 2.46000 GHz Res BW 390 kHz	#VBI	N 3.0 MHz	Sween 1	Stop 2.50000 GHz .000 ms (1001 pts)	Mkr→CF
MKR MODE TRC SCL	X		UNCTION FUNCTION WIDTH	FUNCTION VALUE	
1 N 1 f	2.483 50 GHz 2.469 64 GHz	38.579 dBµV 96.993 dBµV			
3	2.409 04 GHZ	50.555 GBµV			Mkr→RefLv
5				=	
6 7					
8					More 1 of 2
10				-	1 of 2
<		m			
ISG			STATUS		

#### PK Value

EUT :	2.4GHz Wireless Inspection Camera	Model Name. :	DCT410
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12V
Test Mode :	Mode 1	Polarization :	Vertical



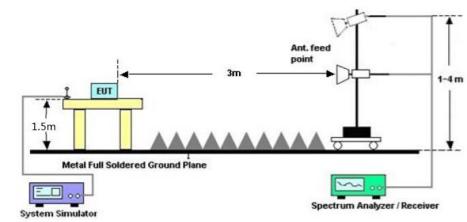
PK Value

Note: The peak values of the band edge emission are less than the average limits, so the average values need not to be tested.

#### 9. 20DB BANDWIDTH

#### 9.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.



#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

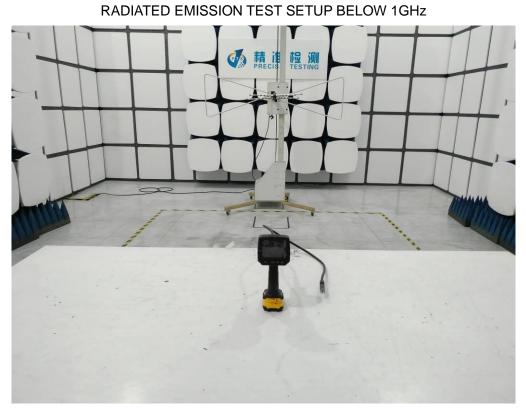
#### 9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODE	Mode1

Test Data (MHz)	Criteria	
Operating Channel	4.929	PASS

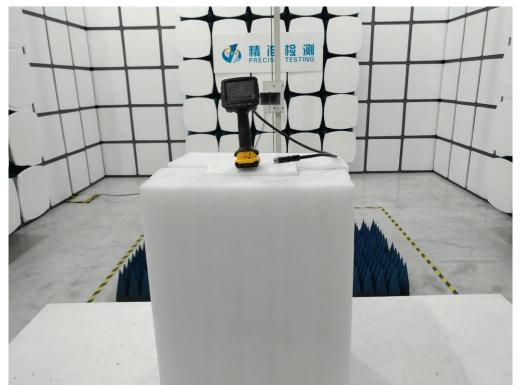
#### 🔰 Agilent Spectrum Analyzer - Occupied BW SENSE:INTI Center Freq: 2.468000000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB Radio Std: None Frequency Center Freq 2.468000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm 10 dB/div og **Center Freq** 2.468000000 GHz mannon Center 2.468 GHz #Res BW 100 kHz Span 10 MHz Sweep 1.267 ms **CF Step** 1.000000 MHz Man #VBW 300 kHz <u>Auto</u> **Occupied Bandwidth Total Power** 17.0 dBm 4.4043 MHz **Freq Offset** 0 Hz Transmit Freq Error -51.918 kHz **OBW Power** 99.00 % x dB Bandwidth 4.929 MHz x dB -20.00 dB STATUS /ISG

#### TEST PLOT OF BANDWIDTH



# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP ABOVE 1GHz





# APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

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TOP VIEW OF EUT

BOTTOM VIEW OF EUT





FRONT VIEW OF EUT

BACK VIEW OF EUT

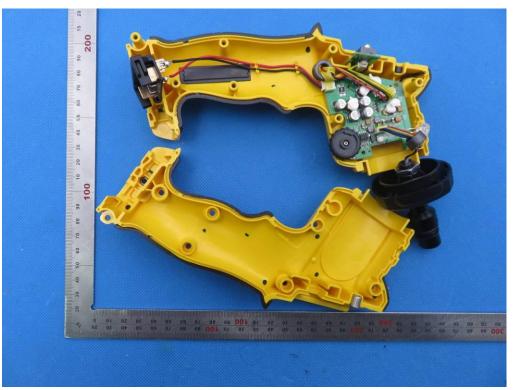




LEFT VIEW OF EUT

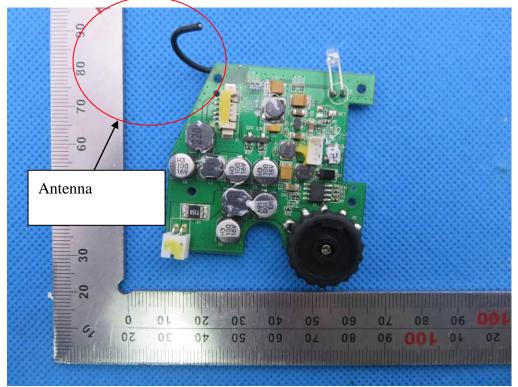
**RIGHT VIEW OF EUT** 

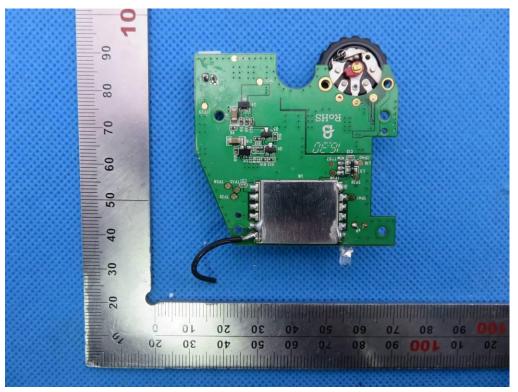




OPEN VIEW OF EUT

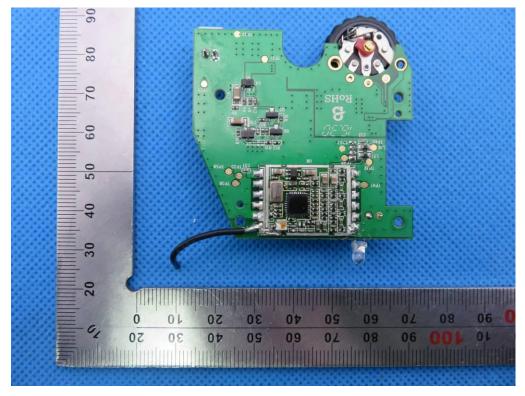
INTERNAL VIEW OF EUT-1





**INTERNAL VIEW OF EUT-2** 

**INTERNAL VIEW OF EUT-3** 



----END OF REPORT----