

FCC TEST REPORT FCC PART 15 SUBPART C 15.249

Test report On Behalf of SHANTOU CITY YONGDALI TECHNOLOGY INDUSTRIAL CO., LTD. For REMOTE CONTROL

Model No.: AG-01

FCC ID: 2AMZPAG01CDLWP

Prepared for : SHANTOU CITY YONGDALI TECHNOLOGY INDUSTRIAL CO., LTD. ZHONGTAI 3rd ROAD, CHENGHUA ST., CHENGHAI DISTRICT, SHANTOU, GUANGDONG OF CHINA

Prepared By :Shenzhen HUAK Testing Technology Co., Ltd.1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, FuhaiStreet, Bao'an District, Shenzhen City, China

 Date of Test:
 Oct. 10, 2018 ~ Oct. 16, 2018

 Date of Report:
 Oct. 16, 2018

 Report Number:
 HK1810121271E



TEST RESULT CERTIFICATION

Applicant's name	. SHANTOU CITY YONGDALI TECHNOLOGY INDUSTRIAL CO., LTD.			
Address	ZHONGTAI 3rd ROAD, CHENGHUA ST., CHENGHAI DISTRICT, SHANTOU, GUANGDONG OF CHINA			
Manufacture's Name	. SHANTOU CITY YONGDALI TECHNOLOGY INDUSTRIAL CO., LTD.			
Address	ZHONGTAI 3rd ROAD, CHENGHUA ST., CHENGHAI DISTRICT, SHANTOU, GUANGDONG OF CHINA			
Product description				
Trade Mark:	N/A			
Product name	. REMOTE CONTROL			
Model and/or type reference	. AG-01			
Series Models	AG-01W, AG-01P, AG-01D, AG-01DW, AG-01DP, AG-02, AG-02W, AG-02P, AG-02D, AG-02DW, AG-02DP, AG-03, AG-03W, AG-03P, AG-03S, AG-07, AG-07W, AG-07P, AG-07P, AG-07D, AG-07DP, 6060, 6075			
Declaration of Difference	All the same except for the model name and appearance.			
Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013			

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAK Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAK Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test	:
Date (s) of performance of tests	:
Date of Issue	:
Test Result	:

Oct. 10, 2018 ~ Oct. 16, 2018 Oct. 16, 2018 Pass

Testing Engineer

5

2

Gory Di an L (Gary Qian)

Technical Manager

Edon Hu

(Eden Hu)

Authorized Signatory:

(Jason Zhou)



Table of Contents	Page
1. TEST SUMMARY	4
2 . GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 OPERATION OF EUT DURING TESTING	6
2.3 DESCRIPTION OF TEST SETUP	6
2.4 MEASUREMENT INSTRUMENTS LIST	7
3. RADIATED EMISSION	8
3.1. MEASUREMENT PROCEDURE	8
3.2. TEST SETUP	10
3.3. TEST RESULT	11
4. BAND EDGE EMISSION	17
4.1. MEASUREMENT PROCEDURE	17
4.2 TEST SETUP	17
4.3 RADIATED TEST RESULT	17
5. BANDWIDTH	20
5.1. MEASUREMENT PROCEDURE	20
5.2. TEST SETUP	20
5.3. TEST RESULT	21
6. PHOTOGRAPH OF TEST	23
7. PHOTOGRAPH OF EUT	24



1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249&15.209	Band Edges Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	N/A

1.2 TEST FACILITY

Test Firm	:	Shenzhen HUAK Testing Technology Co., Ltd.	
Address	:	1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,	
		Fuhai Street, Bao'an District, Shenzhen City, China	
Designation Number:	:	CN1229	
Test Firm Registration Number : 616276			

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty		
Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Operation Frequency	2405-2440MHz
Field Strength(3m)	88.91dBuV/m(Average)@3m
Modulation	GFSK
Number of channels	3
Test Channels	2405MHz, 2423MHz, 2440MHz
Hardware Version	AG-04HT-1
Software Version	V1.0
Antenna Designation	Fixed antenna
Antenna Gain	0dBi
Power Supply	DC 6V by battery



2.2 OPERATION OF EUT DURING TESTING

NO.	TEST MODE DESCRIPTION			
1	Low channel TX			
2	Middle channel TX			
3	High channel TX			
Note: 1. Only the data of the worst case recorded in the test report.				
0. En De diete de Ensie ien de Serie vonne eksenen fan teatier ien en eksenen lierekte mede				

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

2.3 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation and Above1GHz Radiation testing:

EUT



2.4 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year



3. RADIATED EMISSION

3.1. 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/RBW 200Hz for QP	
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP	
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP	
Start ~Stop Frequency	1GHz~26.5GHz	
	1.5MHz/5MHz for Peak, 1.5MHz/10Hz for Average	

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

Test limit for Standard FCC15.249

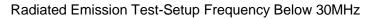
Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics	
	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

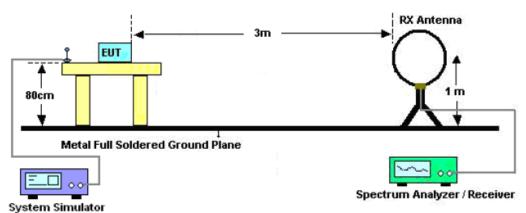
Test limit for Standard FCC 15.209

Frequency	Distance	Field Strer	ngths 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	3	Other:74.0 dB(µV)/m	(Peak) 54.0 dB(µV)/m			
		(Average)				
Remark: (1) Emission	Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m					
(2) The small	(2) The smaller limit shall apply at the cross point between two frequency bands.					
(3) Distance	is the distance in meters I	petween the measuring ins	strument, antenna and the			

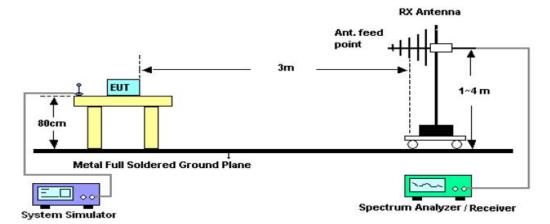
closest point of any part of the device or system.



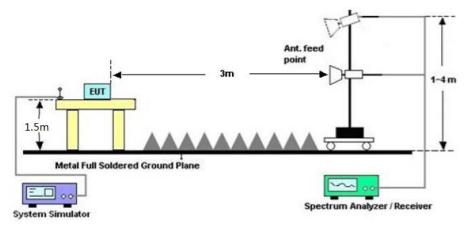




RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

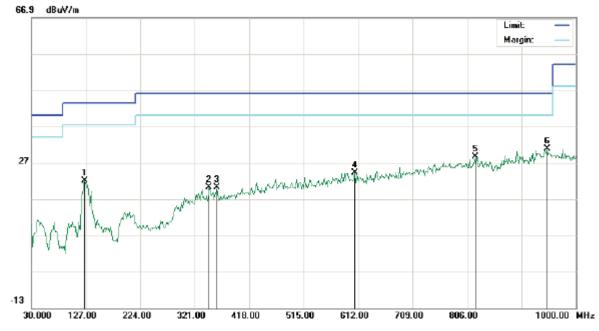




RADIATED EMISSION BELOW 30MHz

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

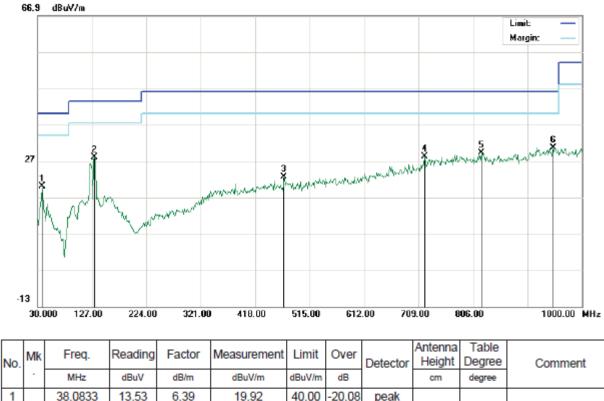
RADIATED EMISSION BELOW 1GHZ-Horizontal



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		125.3833	13.67	8.37	22.04	43.50	-21.46	peak			
2		346.8666	1.72	18.53	20.25	46.00	-25.75	peak			
3		359.8000	1.32	18.80	20.12	46.00	-25.88	peak			
4		605.5333	0.53	23.74	24.27	46.00	-21.73	peak			
5		820.5498	1.30	27.32	28.62	46.00	-17.38	peak			
6	*	948.2667	0.83	29.95	30.78	46.00	-15.22	peak			



RADIATED EMISSION BELOW 1GHZ-Vertical



	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		38.0833	13.53	6.39	19.92	40.00	-20.08	peak			
2		131.8498	16.22	11.80	28.02	43.50	-15.48	peak			
3		469.7332	1.83	20.80	22.63	46.00	-23.37	peak			
4		720.3165	2.35	25.77	28.12	46.00	-17.88	peak			
5		820.5498	1.82	27.32	29.14	46.00	-16.86	peak			
6	*	948.2667	0.71	29.95	30.66	46.00	-15.34	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. The mode 1 is the worst case, and only the data of the worst case recorded in this test report.



Test Mode :

Mode 1/2/3

RADIATED EMISSION ABOVE 1GHZ

Field strength of fundamental emission

EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 1/2/3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2405.015	101.57	-9.63	91.94	114	-22.06	peak
2405.015	97.42	-9.63	87.79	94	-6.21	AVG
2423.014	101.95	-9.63	92.32	114	-21.68	peak
2423.014	97.34	-9.63	87.71	94	-6.29	AVG
2440.011	102.42	-9.63	92.79	114	-21.21	peak
2440.011	98.54	-9.63	88.91	94	-5.09	AVG
Remark:						
Factor = Anter	nna Factor + Cabl	e Loss – Pre-a	mplifier.			

EUT :REMOTE CONTROLModel Name. :AG-01Temperature :20 °CRelative Humidtity :48%Pressure :1010 hPaTest Voltage :DC 6V

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type						
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type						
2405.015	100.42	-9.63	90.79	114	-23.21	peak						
2405.015	96.33	-9.63	86.7	94	-7.3	AVG						
2423.014	100.85	-9.63	91.22	114	-22.78	peak						
2423.014	96.21	-9.63	86.58	94	-7.42	AVG						
2440.011	101.13	-9.63	91.5	114	-22.5	peak						
2440.011	97.25	-9.63	87.62	94	-6.38	AVG						
Remark:												
-actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			actor = Antenna Factor + Cable Loss – Pre-amplifier.						

Polarization :

Vertical



UT :	REMOTE	REMOTE CONTROL		Model Name. :		AG-01	
emperature :	mperature : 20 °C		Relative	Relative Humidtity :		48%	
Pressure :	1010 hPa		Test Vo	oltage :	DC 6V		
est Mode : Mode 1		Polariza	ation :	Horizontal			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4810.030	38.42	3.76	42.18	74	-31.82	peak	
4810.030	35.33	3.76	39.09	54	-14.91	AVG	
7215.045	36.85	8.17	45.02	74	-28.98	peak	
	33.21	8.17	41.38	54	-12.62	AVG	

Field strength of spurious emission

EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
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
4810.030	39.45	3.76	43.21	74	-30.79	peak
4810.030	36.85	3.76	40.61	54	-13.39	AVG
7215.045	37.74	8.17	45.91	74	-28.09	peak
7215.045	34.26	8.17	42.43	54	-11.57	AVG
Remark:						
-actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier			

e-ampline υιυι



EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type							
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type							
4846.030	38.68	3.76	42.44	74	-31.56	peak							
4846.030	35.19	3.76	38.95	54	-15.05	AVG							
7269.045	36.85	8.17	45.02	74	-28.98	peak							
7269.045	33.42	8.17	41.59	54	-12.41	AVG							
Remark:	Remark:												
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4846.030	37.86	3.76	41.62	74	-32.38	peak
4846.030	34.81	3.76	38.57	54	-15.43	AVG
7269.045	38.42	8.17	46.59	74	-27.41	peak
7269.045	35.13	8.17	43.3	54	-10.7	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.030	40.25	3.76	44.01	74	-29.99	peak
4880.030	37.12	3.76	40.88	54	-13.12	AVG
7320.045	38.95	8.17	47.12	74	-26.88	peak
7320.045	35.68	8.17	43.85	54	-10.15	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.030	39.64	3.76	43.4	74	-30.6	peak
4880.030	36.53	3.76	40.29	54	-13.71	AVG
7320.045	37.55	8.17	45.72	74	-28.28	peak
7320.045	34.48	8.17	42.65	54	-11.35	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

Note: Other emissions 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.



4. BAND EDGE EMISSION

4.1. MEASUREMENT PROCEDURE

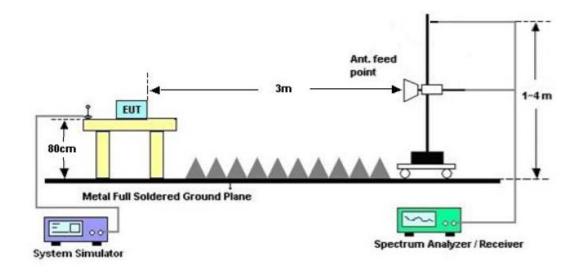
1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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=1MHz, VBW=3MHz, Sweep=AUTO

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

3. Other procedures refer to clause 3.1.

4.2 TEST SETUP



RADIATED EMISSION TEST SETUP

4.3 RADIATED TEST RESULT

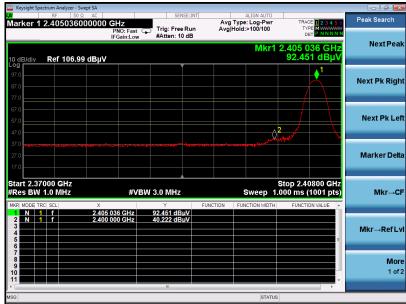
Note:

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(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



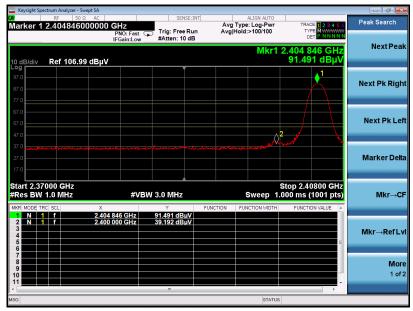
EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value



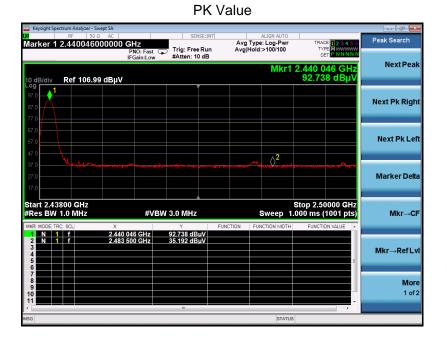
-			<u>_</u>
EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value





EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 3	Polarization :	Horizontal



EUT :	REMOTE CONTROL	Model Name. :	AG-01
Temperature :	20 ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value

arker 1 2.4398600000					
	PNO: Fast	Trig: Free Run #Atten: 10 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE	Peak Search
) dB/div Ref 106.99 dB	IFGain:Low	#Atten: 10 dB	Mkr	1 2.439 860 GHz 91.788 dBµV	Next Pea
					Next Pk Rig
70 70 70 70 70 70 70 70 70 70 70 70 70 7					Next Pk Lo
77.0 334 (1997) 1997 17.0 1997	all from the second	ng traingtagt aga an a san a traingt	the stand and the stand of the	มาระหมุมสาราราวร์สารารารสาราราร	Marker De
tart 2.43800 GHz Res BW 1.0 MHz		W 3.0 MHz		Stop 2.50000 GHz 1.000 ms (1001 pts)	Mkr→(
1 N 1 f 2.	× .439 860 GHz .483 500 GHz	Υ 91.788 dBμV 35.860 dBμV	FUNCTION FUNCTION WDTH	FUNCTION VALUE	Mkr→RefL
7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					М а 1 о
G		m	STATU	19	

Note: The level of peak emission is less than the average limit, so the level of average emission need not to be tested.

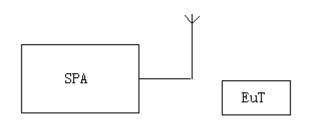




5.1. MEASUREMENT PROCEDURE

- 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 operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the OBW, 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 3* RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

5.2. TEST SETUP





5.3. TEST RESULT

TEST ITEM	-20dB BANDWIDTH
TEST MODE	Mode1, Mode 2, Mode 3

Channel	MHz	Criteria
Low Channel	590.5	PASS
Middle Channel	581.7	PASS
High Channel	598.6	PASS

Keysight Spectrum Analyzer - Occupied BV GHZ SENSE:INT ALIGN AUTO Center Freq: 2.40500000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB Radio Std: None Frequency Center Freq 2.405000000 GHz Radio Device: BTS Ref 20.00 dBm 10 dB/div og **Center Freq** 2.405000000 GHz Center 2.405 GHz #Res BW 30 kHz Span 2 MHz Sweep 2.733 ms **CF Step** 200.000 kHz #VBW 100 kHz <u>Auto</u> Man **Total Power** 5.38 dBm **Occupied Bandwidth** 517.46 kHz Freq Offset 0 Hz **Transmit Freq Error** -134.45 kHz % of OBW Power 99.00 % x dB Bandwidth 590.5 kHz x dB -20.00 dB STATUS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





6. PHOTOGRAPH OF TEST





7. PHOTOGRAPH OF EUT

ALL VEIW OF EUT





TOP VIEW OF EUT



BOTTOM VIEW OF EUT





FRONT VIEW OF EUT



BACK VIEW OF EUT





LEFT VIEW OF EUT



RIGHT VIEW OF EUT

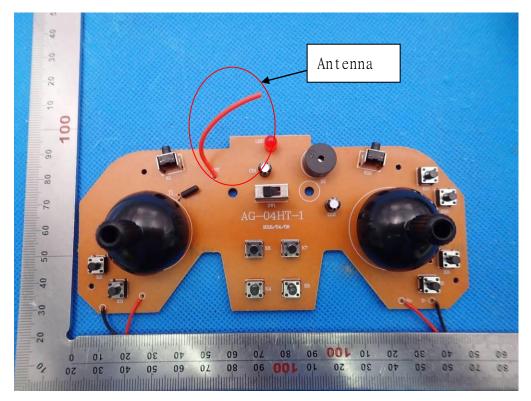




OPEN VIEW OF EUT

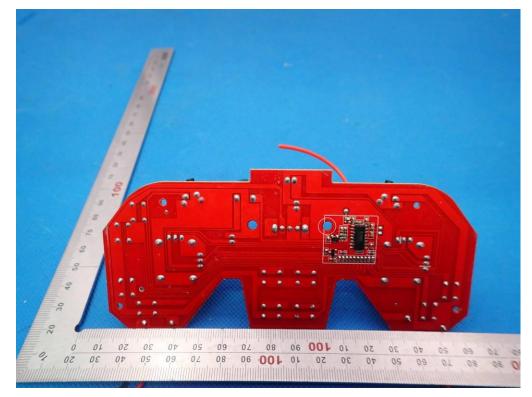


INTERNAL VIEW OF EUT-1





INTERNAL VIEW OF EUT-2



----END OF REPORT----