

FCC Test Report

Report No.: AGC01559180617FE03

FCC ID : 2AANZTTCM

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: SMART WATCH

BRAND NAME: TEEN TECH

MODEL NAME : HY-TTCM, HY-TTCM-BLK, HY-TTCM-WHT

CLIENT: DGL Group LTD.

DATE OF ISSUE : July 11, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

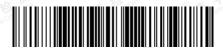
REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

& AGC

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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		July 11, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	DGL Group LTD.				
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837				
Manufacturer	DGL Group LTD.				
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837				
Product Designation	SMART WATCH				
Brand Name	TEEN TECH				
Test Model	HY-TTCM				
Series Model	HY-TTCM-BLK, HY-TTCM-WHT				
Difference Description	All the same except for the appearance color and packing				
Date of test	June 30, 2018 to July 07, 2018				
Deviation	None				
Condition of Test Sample	Normal				
Report Template	AGCRT-US-BR/RF				

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By	Jonhen Wang	
The Compliance	Jonhen Wang(Wang Yonghuan)	July 07, 2018
Reviewed By	and change	
© Mender of Condition	Cool Cheng(Cheng Mengguo)	July 11, 2018
Approved By	Forest ce	A Aller of Global Computation
	Forrest Lei(Lei Yonggang) Authorized Officer	July 11, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V3.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	6.0
Software Version	11C
Antenna Designation	Fixed Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	used for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
(S) All statement of Cooks (S) All statement of	0	2402MHz		
G	1 1	2403MHz		
The American	The state of the s			
e (S) And Clobal (S)	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
报:	40	2442 MHz		
The tempore of the temporary of the temp	20 mm	C SO SO		
de la companya del companya de la companya del companya de la comp	77	2479 MHz		
	78	2480 MHz		

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

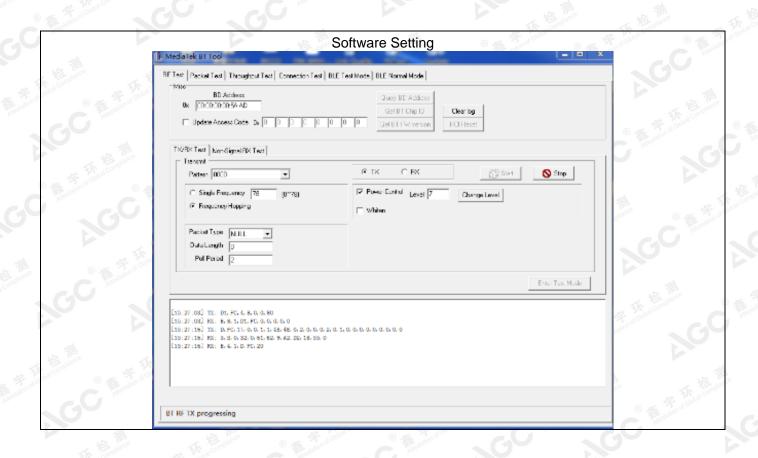
NO.	TEST MODE DESCRIPTION			
1 The Accompanies	Low channel GFSK			
© 7 2 do 0	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 T. T.	Middle channel π /4-DQPSK			
6	High channel π /4-DQPSK			
7	Low channel 8DPSK			
8	Middle channel 8DPSK			
9 8 A A A A A A A A A A A A A A A A A A	High channel 8DPSK			
10	BT Link with charging			
11	BT Link(Hopping mode)			

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. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.

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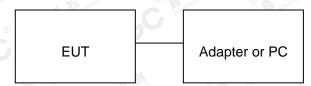


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5. SYSTEM TEST CONFIGURATION

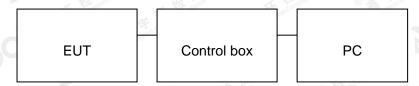
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	SMART WATCH	TEEN TECH	HY-TTCM	EUT	
2	Battery	Triumph	PL482228	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	DOFLY	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	USB Cable	N/A	0.8m unshielded	Accessory	
8	IPOD	APPLE APPLE	A1367	A.E	

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

Part of the second of the seco				
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012			
NVLAP Lab Code	600153-0			
Designation Number	CN5028			
Test Firm Registration Number	682566			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2018	Jun.19, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The state of the s	Jun.20, 2018	Jun.19, 2019

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(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)	2					
0.490 ~ 1.705	30	24000/F(kHz)	一 技术					
1.705 ~ 30	30	30	E Cobat C (State of Class)					
30 ~ 88	3	100	40.0					
88 ~ 216	3 - 6	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(μV)/m					

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ 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.

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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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

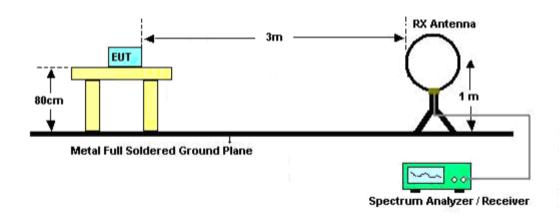
	Spectrum Parameter	Setting
Hopal Comp	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
CC Arrest	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
7	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
E STATE OF THE STA	Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
	Receiver Parameter	Setting
	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
- FIN	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
loal Complies	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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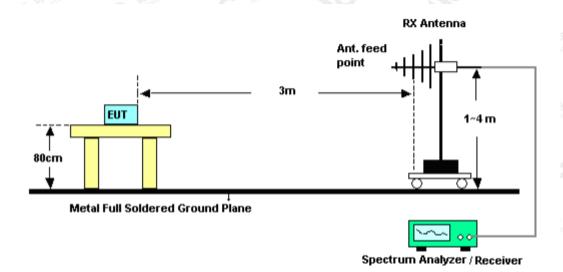


9.3. TEST SETUP

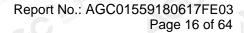
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

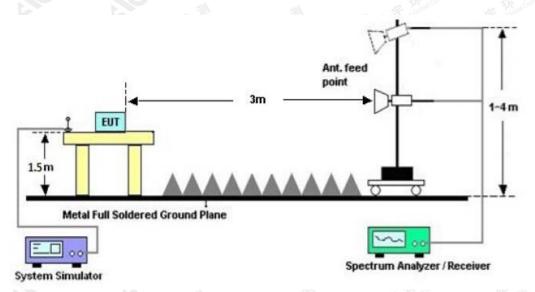


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

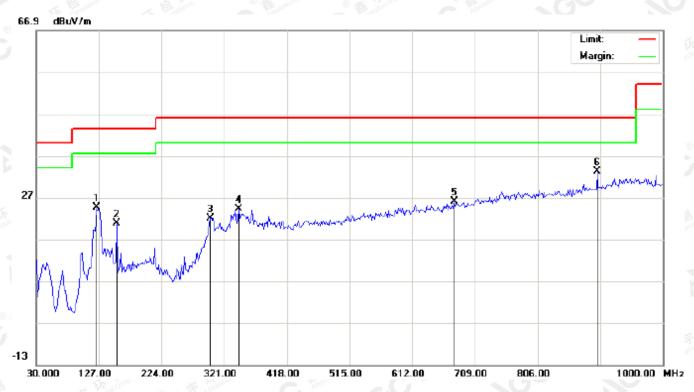
(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		123.7667	17.00	7.62	24.62	43.50	-18.88	peak			
2		154.4832	9.10	11.67	20.77	43.50	-22.73	peak			
3		299.9833	6.52	15.41	21.93	46.00	-24.07	peak			
4		343.6333	5.94	18.32	24.26	46.00	-21.74	peak			
5		676.6667	1.38	24.58	25.96	46.00	-20.04	peak		·	
6	*	898.1500	4.55	28.56	33.11	46.00	-12.89	peak			

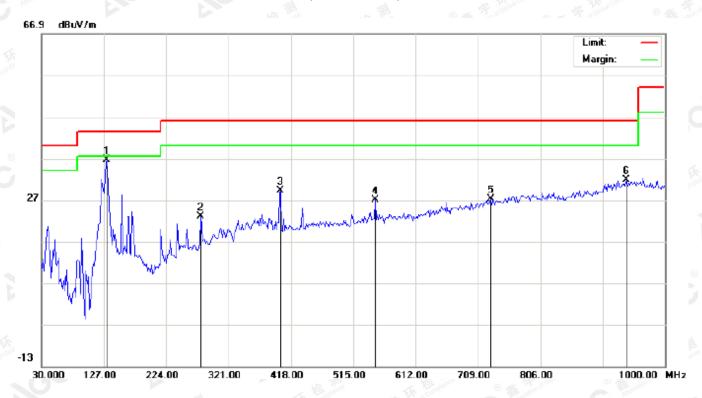
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ē.	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	131.8500	24.74	11.80	36.54	43.50	-6.96	peak			
2		277.3500	8.30	14.73	23.03	46.00	-22.97	peak			
3		401.8333	10.14	19.13	29.27	46.00	-16.73	peak			
4		548.9500	4.53	22.45	26.98	46.00	-19.02	peak			
5		728.4000	1.15	26.01	27.16	46.00	-18.84	peak			
6		940.1833	2.08	29.73	31.81	46.00	-14.19	peak			

RESULT: PASS

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

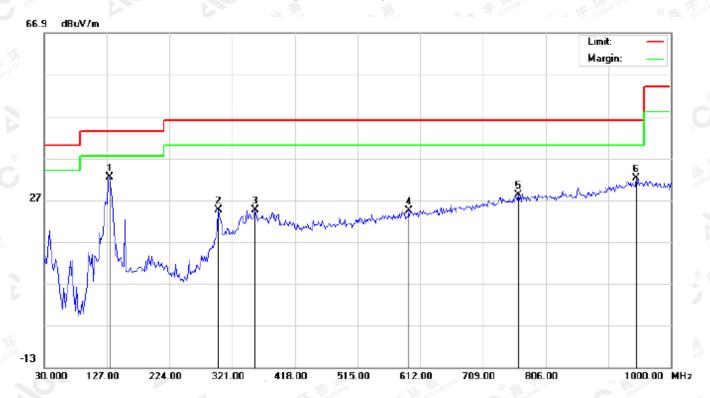
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



No). N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
e e		•	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	Τ	*	131.8500	20.95	11.39	32.34	43.50	-11.16	peak			
2			299.9833	9.29	15.41	24.70	46.00	-21.30	peak			
3			356.5667	5.76	18.78	24.54	46.00	-21.46	peak			
4			594.2167	0.86	23.59	24.45	46.00	-21.55	peak			
5			763.9667	1.47	26.82	28.29	46.00	-17.71	peak			
6			946.6500	2.35	29.91	32.26	46.00	-13.74	peak		·	

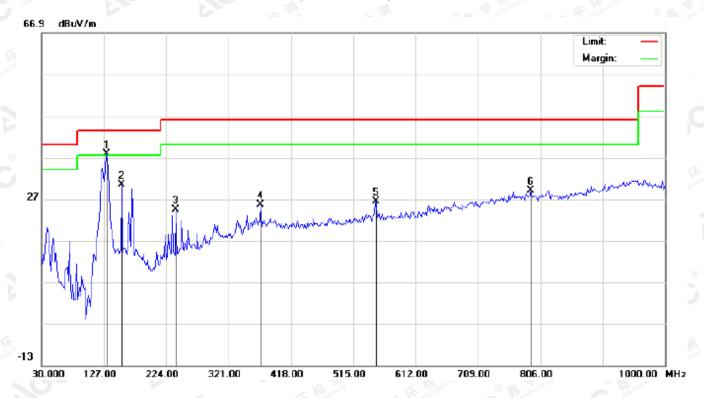
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1	*	131.8499	25.92	11.80	37.72	43.50	-5.78	peak			
2		154.4832	15.06	15.29	30.35	43.50	-13.15	peak			
3		238.5500	11.63	12.78	24.41	46.00	-21.59	peak			
4		371.1166	6.64	18.88	25.52	46.00	-20.48	peak			
5		550.5666	3.92	22.48	26.40	46.00	-19.60	peak			
6		791.4500	1.79	27.20	28.99	46.00	-17.01	peak			

RESULT: PASS

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

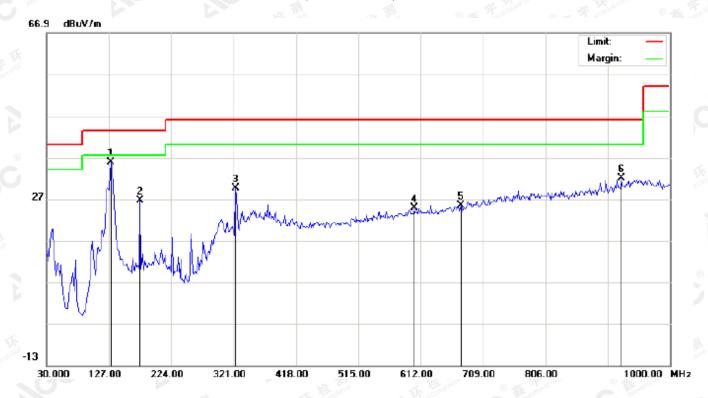
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ej.		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
50	1	*	130.2332	25.07	10.64	35.71	43.50	-7.79	peak			
	2		175.5000	15.73	10.90	26.63	43.50	-16.87	peak			
	3		324.2333	12.50	17.02	29.52	46.00	-16.48	peak			
	4		602.3000	1.08	23.74	24.82	46.00	-21.18	peak			
	5		675.0500	0.80	24.54	25.34	46.00	-20.66	peak			
	6		924.0167	2.78	29.28	32.06	46.00	-13.94	peak			

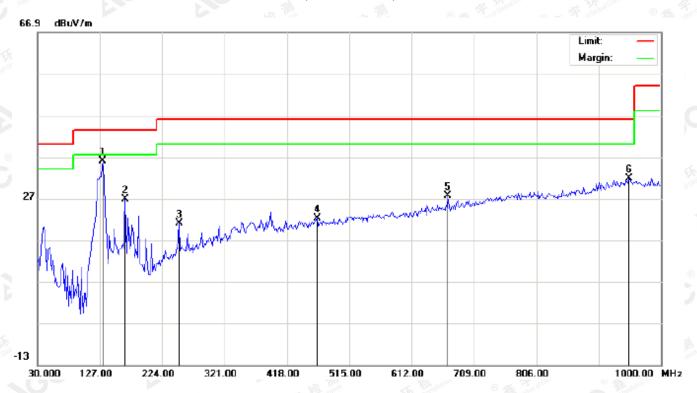
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		- [MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
,	1	*	131.8500	24.22	11.80	36.02	43.50	-7.48	peak			
7	2		165.8000	11.86	14.96	26.82	43.50	-16.68	peak			
,	3		249.8667	7.13	13.89	21.02	46.00	-24.98	peak			
4	1		464.8833	1.40	20.75	22.15	46.00	-23.85	peak			
	5		668.5833	3.21	24.35	27.56	46.00	-18.44	peak			
(6		949.8833	1.74	30.00	31.74	46.00	-14.26	peak			

RESULT: PASS

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

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

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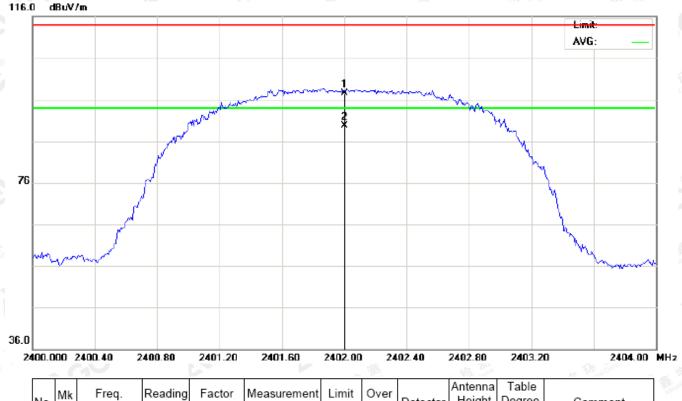
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	87.27	10.32	97.59	114.00	-16.41	peak			
2	*	2402.000	79.29	10.32	89.61	94.00	-4.39	AVG	100	341	
								1.LE 7 70		- The Alle	(Q.) JESU T. A.U.

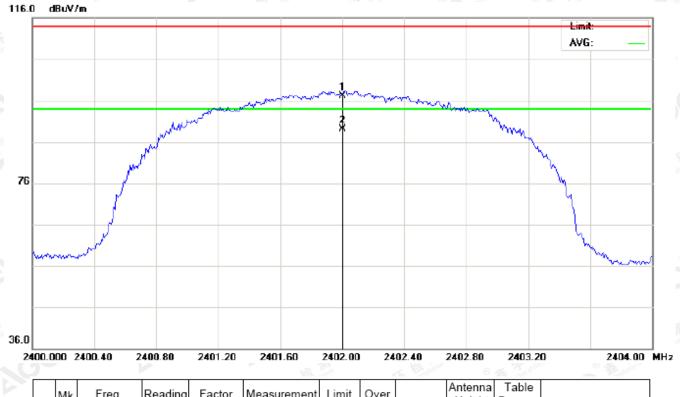
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	86.77	10.32	97.09	114.00	-16.91	peak			
2	*	2402.000	78.78	10.32	89.10	94.00	-4.90	AVG	100	149	

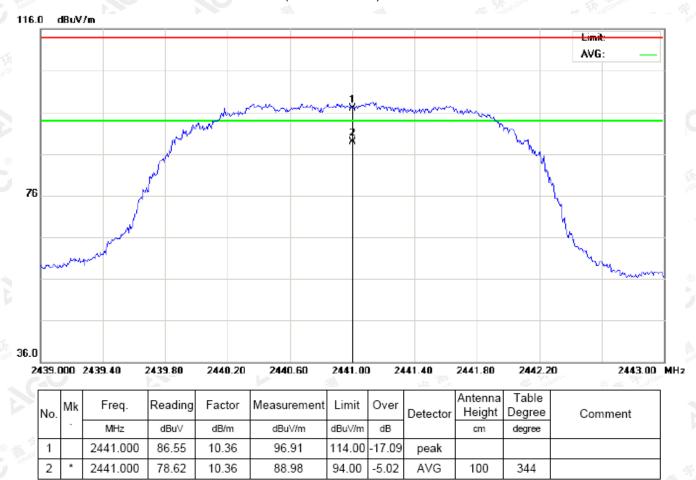
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



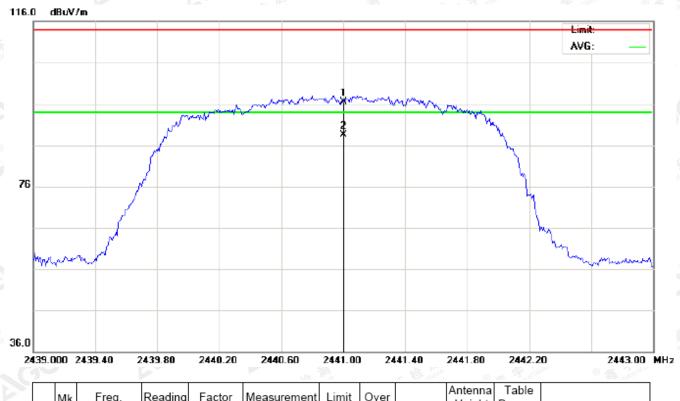
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	86.07	10.36	96.43	114.00	-17.57	peak			
2	*	2441.000	78.08	10.36	88.44	94.00	-5.56	AVG	100	162	

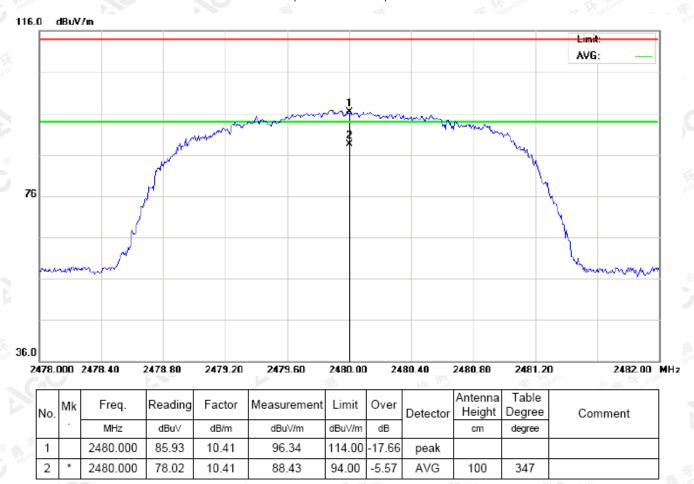
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



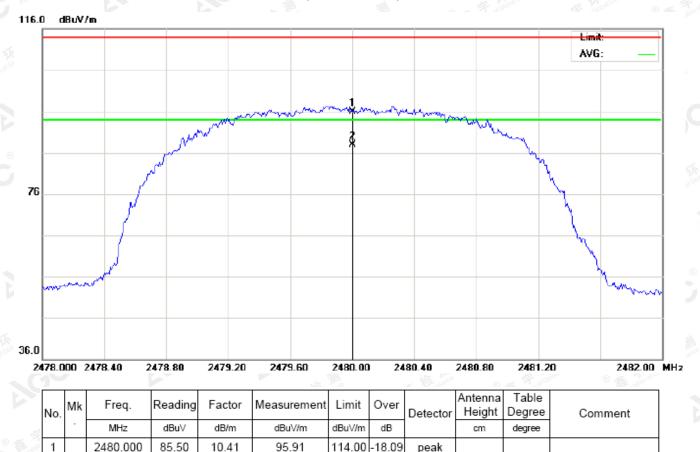
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



RESULT: PASS

2480.000

77.46

10.41

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

87.87

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

94.00

-6.13

AVG

100

162

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	dBuv/m) (dBuv/m)		Polarization	
2402	87.27	10.32	97.59	114	-16.41	Horizontal	
2402	86.77	10.32	97.09	114	-16.91	Vertical	
2441	86.55	10.36	96.91	114	-17.09	Horizontal	
2441	86.07	10.36	96.43	114	-17.57	Vertical	
2480	85.93	10.41	96.34	114	-17.66	Horizontal	
2480	85.50	10.41	95.91	114	-18.09	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.29	.29 10.32	89.61	94	-4.39	Horizontal	
2402	78.78	10.32	89.10	94	-4.90 -5.02	Vertical Horizontal	
2441	78.62	10.36	88.98	94			
2441	78.08	10.36	88.44	94	-5.56	Vertical	
2480	78.02	10.41	88.43	94	-5.57	Horizontal	
2480	77.46	10.41	87.87	94	-6.13	Vertical	

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.79	79 10.32	97.11	114	-16.89	Horizontal	
2402	86.30	10.32	96.62	114	-17.38	Vertical	
2441	2441 86.11		0.36 96.47	114	-17.53	Horizontal	
2441	85.67	10.36	96.03	114	-17.97	Vertical	
2480	85.51	5.51 10.41 95.92		114	-18.08	Horizontal	
2480	85.07	10.41	95.48	114	-18.52	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.91	10.32	89.23	94	-4.77	Horizontal
2402	02 78.50 10.32		88.82	94	-5.18	Vertical
2441	78.21	10.36	88.57	94	-5.43	Horizontal
2441	77.71	10.36	88.07	94	-5.93	Vertical
2480	77.46	77.46 10.41 87.87		94	-6.13	Horizontal
2480	77.10	10.41	87.51	94	-6.49	Vertical

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.40	10.32	96.72	114	-17.28	Horizontal
2402	85.91	10.32	96.23	114	-17.77	Vertical
2441	85.75	10.36	96.11	114	-17.89	Horizontal
2441	85.22	10.36	95.58	114	-18.42	Vertical
2480	85.07	10.41	95.48	114	-18.52	Horizontal
2480	84.58	10.41	94.99	114	-19.01	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.53	10.32 88.	88.85	94	-5.15	Horizontal
2402	402 78.12 10.32		10.32 88.44	94	-5.56	Vertical
2441	77.85	10.36	88.21	94	-5.79	Horizontal
2441	77.40	.40 10.36 87.		94	-6.24	Vertical
2480	77.16	10.41	87.57	94	-6.43	Horizontal
2480	76.71	10.41	87.12	94	-6.88	Vertical

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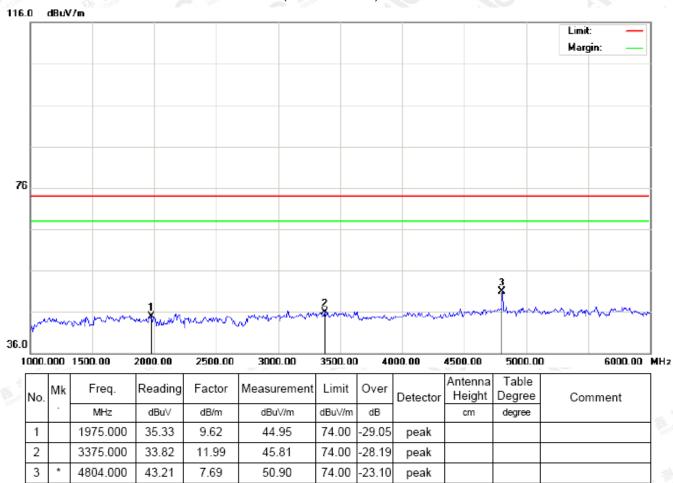


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(Worst modulation: GFSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



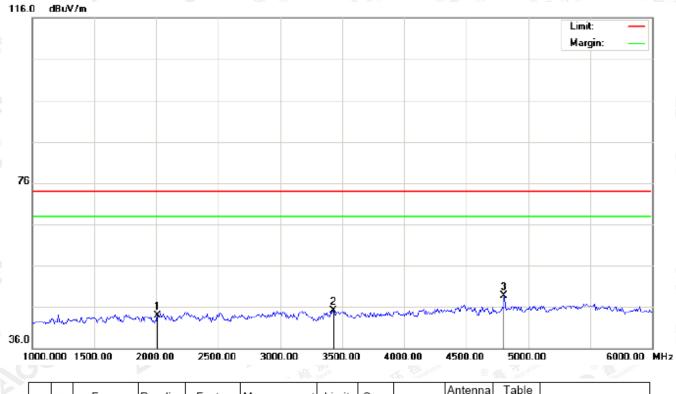
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2008.333	33.99	9.89	43.88	74.00	-30.12	peak			
2		3433.333	33.04	12.05	45.09	74.00	-28.91	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

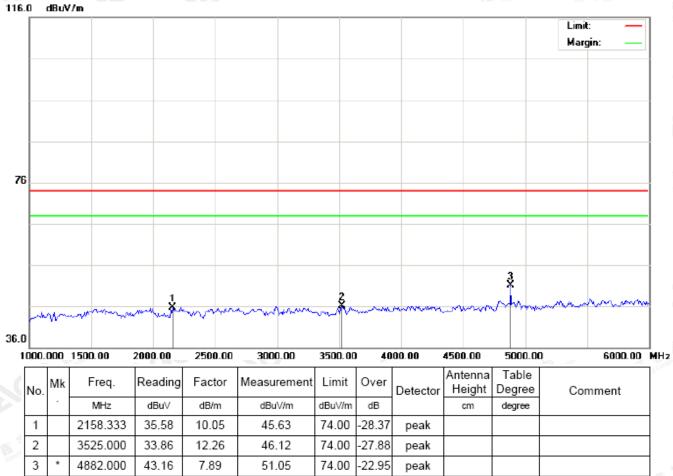
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



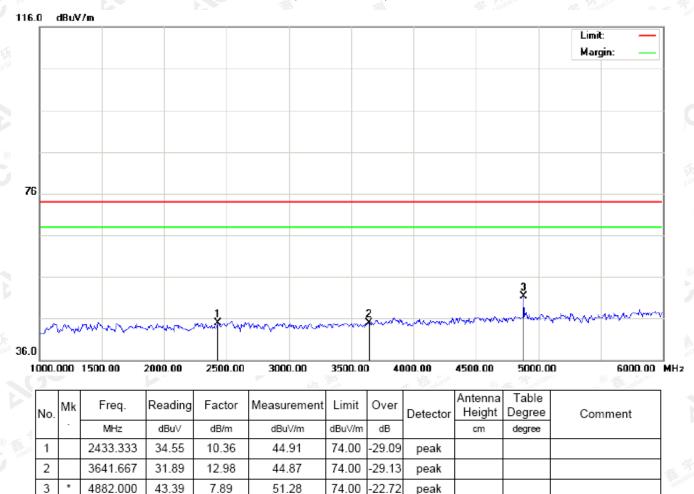
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



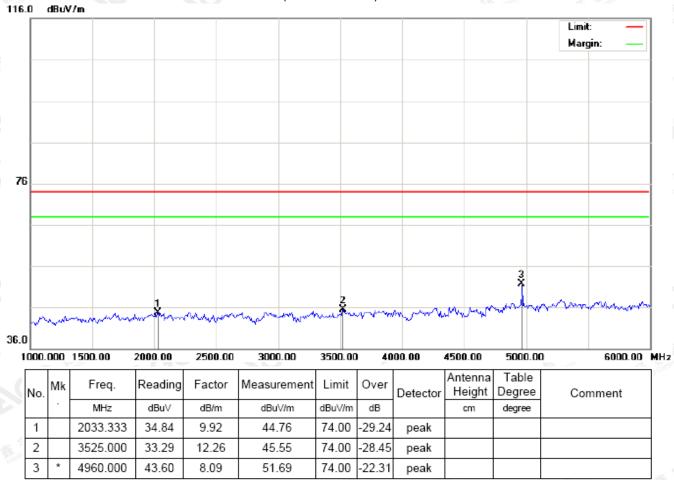
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



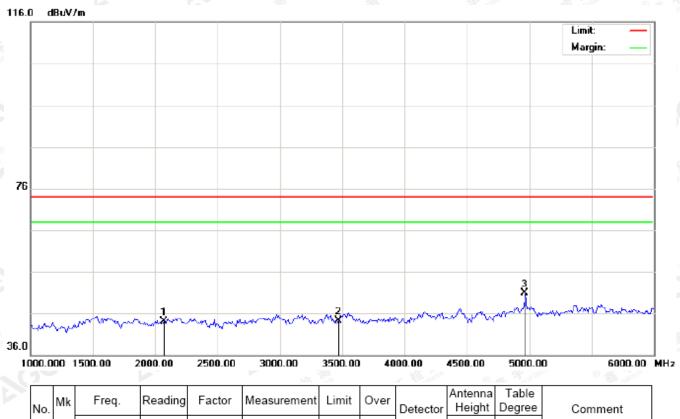
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2066.667	34.08	9.95	44.03	74.00	-29.97	peak			
2		3466.667	32.16	12.08	44.24	74.00	-29.76	peak			
3	*	4960.000	42.91	8.09	51.00	74.00	-23.00	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. 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.

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10. BAND EDGE EMISSION

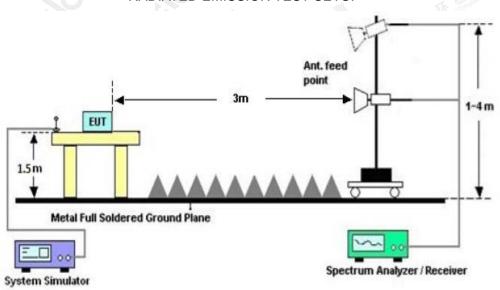
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

	Start frequency(MHz)				Stop frequency(MHz)			
	2200	Kinghans Williams	T Tonny nee	© Markation of C	2405	1GO		
® ##	2478	Global Ca	estation of Glob	-,0 "	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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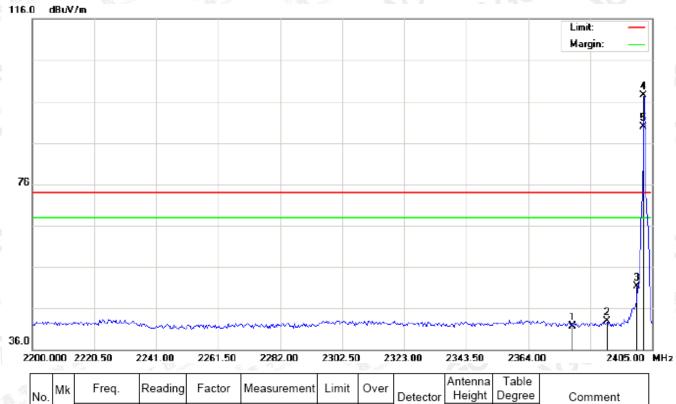


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



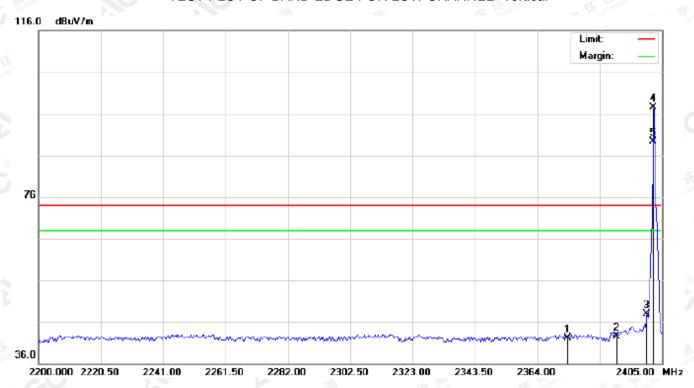
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2378.692	31.33	10.30	41.63	74.00	-32.37	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	40.97	10.32	51.29	74.00	-22.71	peak			
4	*	2402.000	87.22	10.32	97.54	74.00	23.54	peak			
5	Х	2402.000	79.54	10.32	89.86	74.00	15.86	AVG	100	353	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



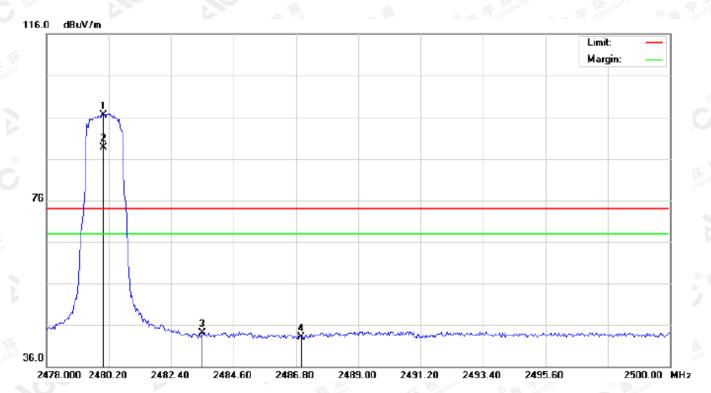
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ź.	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2373.908	31.74	10.29	42.03	74.00	-31.97	peak			
2		2390.000	32.21	10.31	42.52	74.00	-31.48	peak			
3		2400.000	37.56	10.32	47.88	74.00	-26.12	peak			
4	*	2402.000	87.09	10.32	97.41	74.00	23.41	peak			
5	Х	2402.000	78.95	10.32	89.27	74.00	15.27	AVG	100		

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



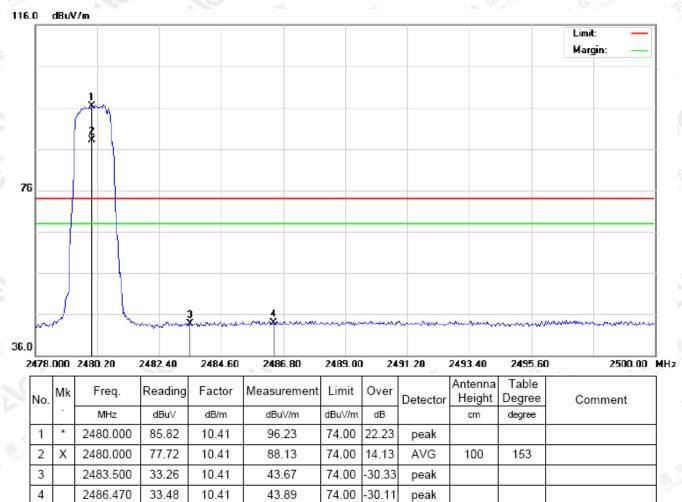
N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	ı	*	2480.000	86.05	10.41	96.46	74.00	22.46	peak			
7	2	Х	2480.000	78.26	10.41	88.67	74.00	14.67	AVG	100	349	
3	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4	1		2486.983	32.76	10.42	43.18	74.00	-30.82	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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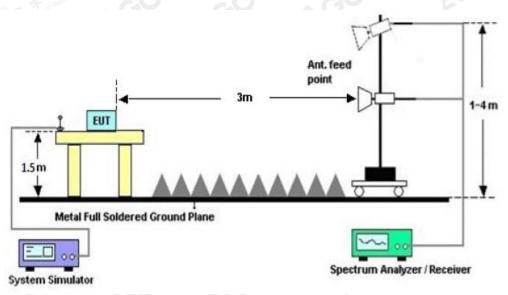
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

		4.DL 11.40									
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT											
		Measurement Result									
Applicable Limits		Dooult									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The state of the s	Low Channel	0.921	1.269	PASS							
N/A	Middle Channel	0.935	1.258	PASS							
100	High Channel	0.931	1.265	PASS							

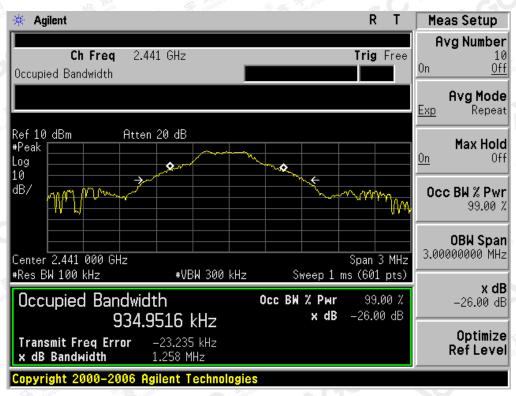
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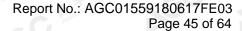
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

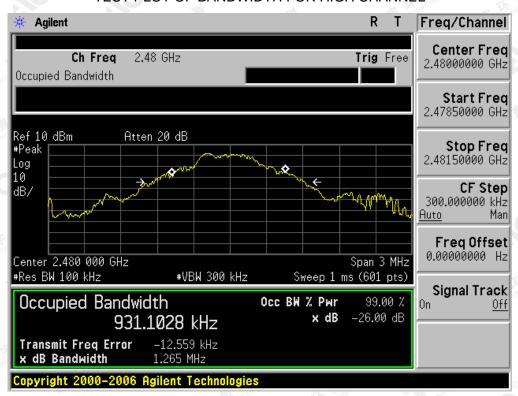


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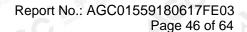




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Result									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
不是那	Low Channel	1.139	1.372	PASS							
N/A	Middle Channel	1.174	1.409	PASS							
COC	High Channel	1.161	1.358	PASS							

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



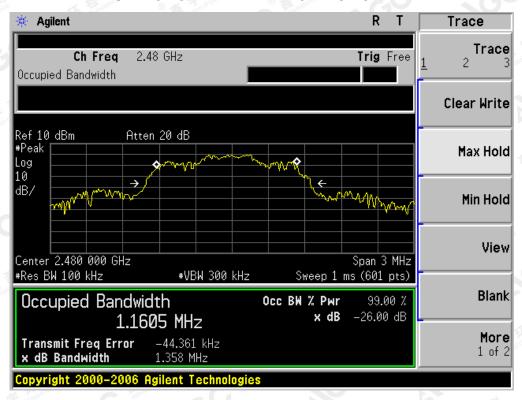
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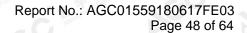
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Nr.	III	- 1	and Manager	W. Co.							
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Dooule									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
不是那	Low Channel	1.132	1.324	PASS							
N/A	Middle Channel	1.138	1.354	PASS							
AGC "	High Channel	1.147	1.338	PASS							

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



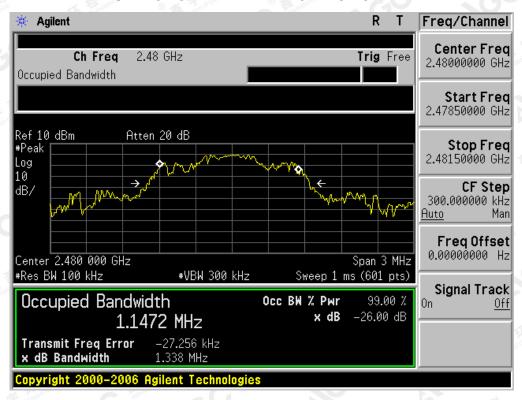
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

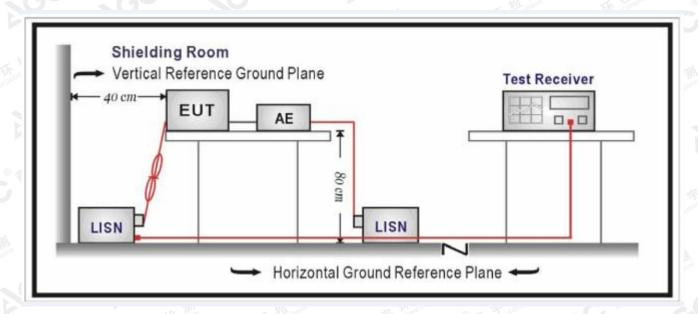
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

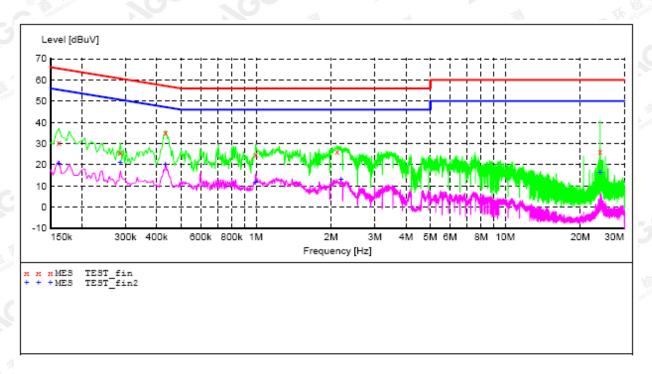
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	30.20	11.4	65	35.2	QP	L1	FLO
0.286000	25.50	11.3	61	35.1	QP	L1	FLO
0.434000	35.10	11.4	57	22.1	QP	L1	FLO
0.998000	24.70	11.3	56	31.3	QP	L1	FLO
2.118000	26.00	11.3	56	30.0	QP	L1	FLO
23.998000	26.30	11.0	60	33.7	QP	L1	FLO

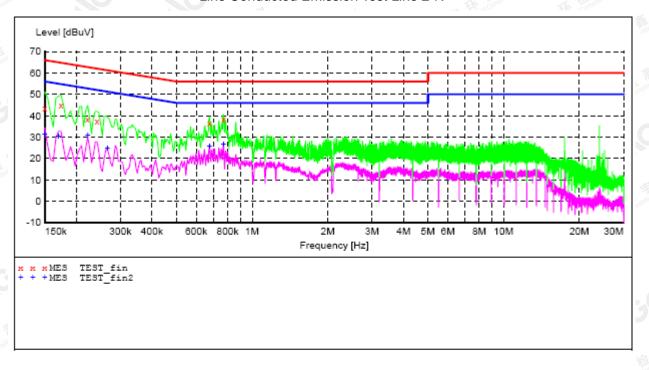
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000 0.286000 0.434000	20.60 20.90 20.20	11.4 11.3 11.4	55 51 47	34.8 29.7 27.0	AV AV AV	L1 L1 L1	FLO FLO FLO
0.998000 2.190000 23.998000	11.70 13.30 16.30	11.3 11.3 11.0	46 46 50	34.3 32.7 33.7	AV AV AV	L1 L1	FLO FLO FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	43.60	11.4	66	22.4	QP	N	FLO
0.174000	44.90	11.4	65	19.9	QP	N	FLO
0.222000	38.40	11.4	63	24.3	QP	N	FLO
0.242000	37.30	11.3	62	24.7	QP	N	FLO
0.678000	36.70	11.4	56	19.3	QP	N	FLO
0.770000	38.20	11.4	56	17.8	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000 0.170000 0.222000 0.266000 0.678000	31.30 30.60 31.00 24.80 25.80 26.80	11.4 11.4 11.3 11.4 11.4	56 55 53 51 46 46	24.7 24.4 21.7 26.4 20.2 19.2	AV AV AV AV AV	N N N N N	FLO FLO FLO FLO FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



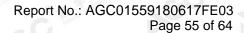
FCC RADIATED EMISSION TEST SETUP



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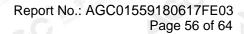




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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT



VIEW OF BATTERY-1



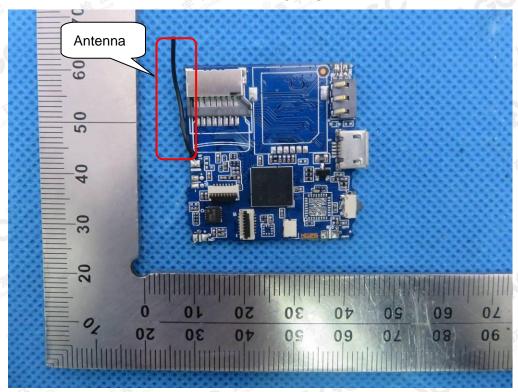
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VIEW OF BATTERY-2



INTERNAL VIEW OF EUT-1



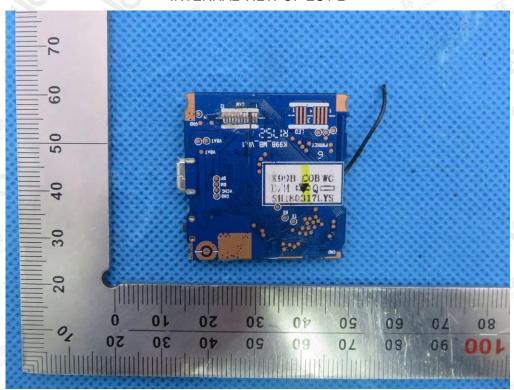
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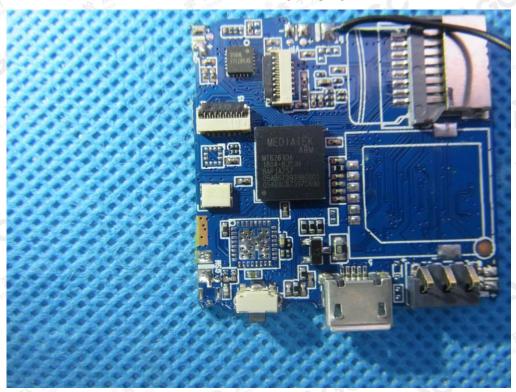
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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SERIES COLOR SAMPLE



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

----END OF REPORT----

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