

FCC Test Report

Report No.: AGC02150180704FE03

FCC ID 2AO5F-M-DAC-NANO

APPLICATION PURPOSE **Original Equipment**

PRODUCT DESIGNATION Wireless headphone amp

BRAND NAME audiolab

MODEL NAME M-DAC nano

CLIENT IAG Group Ltd.

DATE OF ISSUE Jul 31, 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

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jul. 31, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	IAG Group Ltd.
Address	Sanecore Science & Technology Industry Park, Jiuwei Village, Xixiang Town, Shenzhen, China
Manufacturer	Sanecore Audio (Ji'an) Co., Ltd
Address	Fenghuang Industrial Park, Ji'an County, Ji'an City
Product Designation	Wireless headphone amp
Brand Name	audiolab
Test Model	M-DAC nano
Date of test	Jul. 18, 2018 to Jul. 21, 2018
Deviation	None
Condition of Test Sample	Normal State of the State of th
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		Jowhen Wang	
C Attention of C	Jonhen Wan	g(Wang Yonghuan)	Jul. 21, 2018
Reviewed By	The	cust change	© Made allowed Company of the Compan
CC in	Cool Cheng(Cheng Mengguo)	Jul. 31, 2018
Approved By		Forest ce	
Niestalion of S		ei(Lei Yonggang) rized Officer	Jul. 31, 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	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.3
Software Version	V2.0
Antenna Designation	Fixed Antenna
Antenna Gain	1.14dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency	
不是 不	Company O State of the Company of th	2402MHz	
Magazino di Gobali 8 Affactation di Go		2403MHz	
, Go		一天也	
The fill of the fi	38	2440 MHz	
2400~2483.5MHz	39	2441 MHz	
CO CO	40	2442 MHz	
		20	
The the state of t	9 Marian 77 C	2479 MHz	
of clobal C Allosto	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

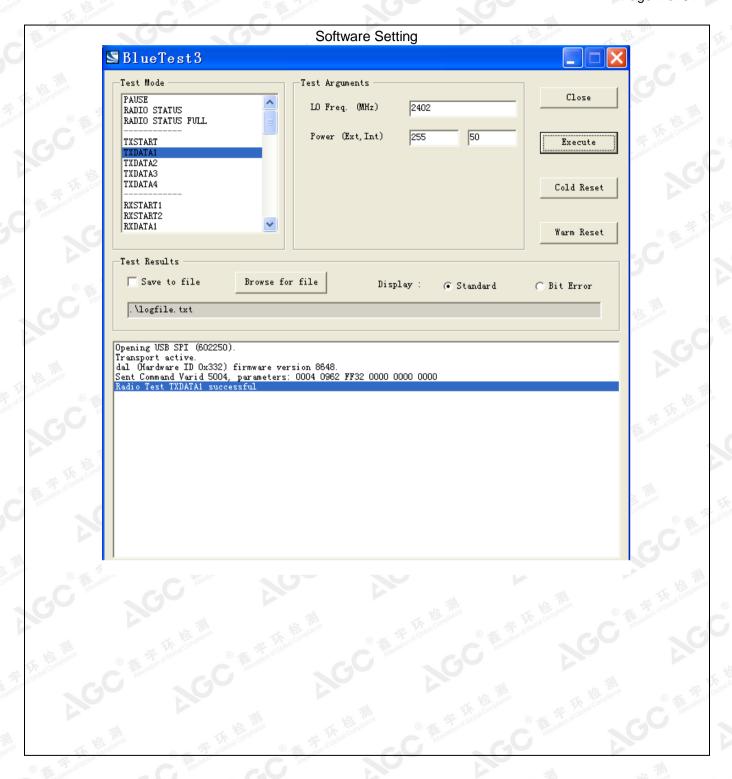
NO.	TEST MODE DESCRIPTION
© Allington Tond God.	Low channel GFSK
2 3	Middle channel GFSK
3	High channel GFSK
4 4	Low channel π /4-DQPSK
® 5 mod Globa	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
F The Control 8 @ F	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link with charging
11th Alexandration	BT Link

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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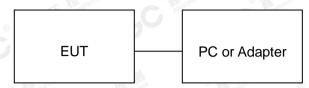


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5. SYSTEM TEST CONFIGURATION

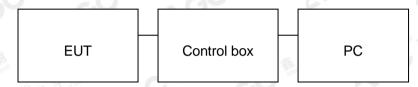
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, 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
The state of	Wireless headphone	audiolab	M-DAC nano	EUT
2	Battery	GuangDong Advanced Electronics	AE701790P	Accessory
3	PC A	APPLE	A1465	A.E
4 9	Control box	CSR	USB_SPI_TOOLS	A.E
5	IPOD	APPLE	A1367	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	AUX in Cable	N/A	1m unshielded	A.E
8	IPOD	APPLE	A1367	A.E
9	Speaker	Xingyue	XO-9452	A.E
10	Adapter	IPRO	NTR-S01	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

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
Loop Antenna	A.H.Systems,Inc	SAS-562B	示核	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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9. RADIATED EMISSION

9.1TEST 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 St	rengths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	Emilia
1.705 ~ 30	30	30	State Colored
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 77	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)
- 3. 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.

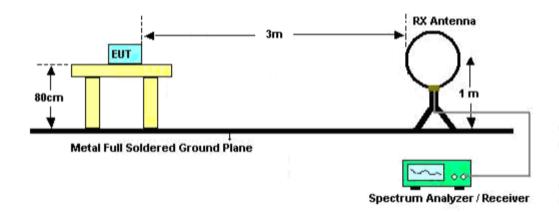
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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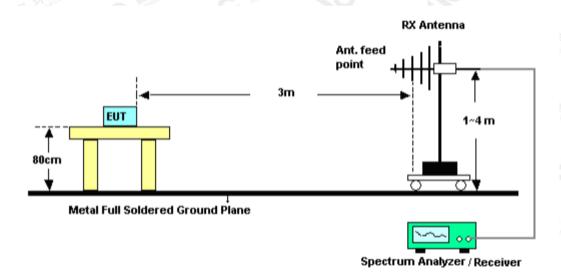


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



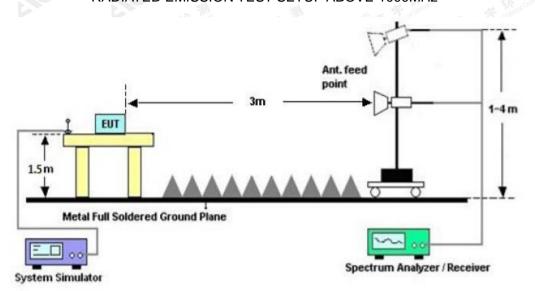
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

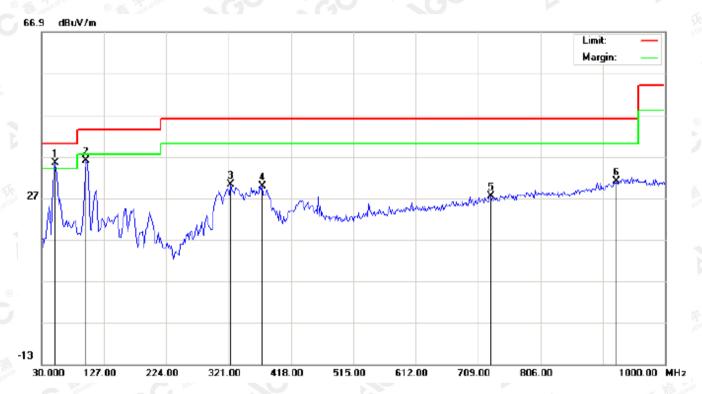
(Worst modulation: π /4-DQPSK)

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	*	51.0167	25.22	10.15	35.37	40.00	-4.63	peak			
2		99.5167	26.00	10.00	36.00	43.50	-7.50	peak			
3		324.2333	13.11	17.02	30.13	46.00	-15.87	peak			
4		372.7333	11.01	18.89	29.90	46.00	-16.10	peak			
5		728.4000	1.31	26.02	27.33	46.00	-18.67	peak			
6		924.0167	1.66	29.28	30.94	46.00	-15.06	peak			

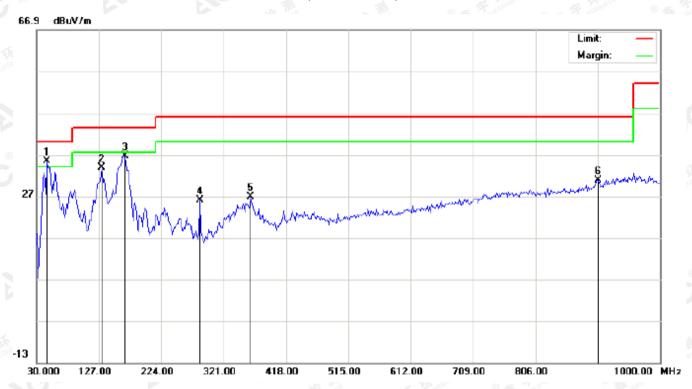
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	46.1666	26.84	8.49	35.33	40.00	-4.67	peak			
2		131.8499	21.99	11.80	33.79	43.50	-9.71	peak			
3		167.4166	21.83	14.86	36.69	43.50	-6.81	peak			
4		283.8167	11.01	14.92	25.93	46.00	-20.07	peak			
5		363.0332	8.01	18.83	26.84	46.00	-19.16	peak		·	
6		903.0000	2.15	28.69	30.84	46.00	-15.16	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.	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	*	51.0167	25.85	10.15	36.00	40.00	-4.00	peak			
2	į	99.5167	29.02	10.00	39.02	43.50	-4.48	peak			
3		374.3500	11.29	18.90	30.19	46.00	-15.81	peak			
4		552.1833	2.31	22.53	24.84	46.00	-21.16	peak			
5		780.1332	1.13	27.05	28.18	46.00	-17.82	peak			
6		904.6167	1.23	28.74	29.97	46.00	-16.03	peak			

RESULT: PASS

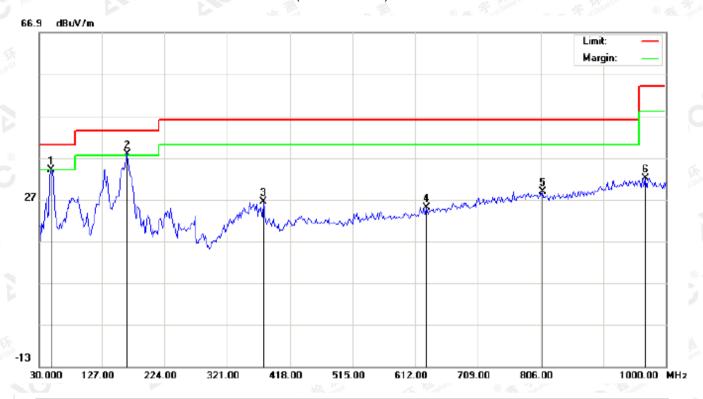
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RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	i	49.3998	25.81	8.28	34.09	40.00	-5.91	peak			
2	*	165.8000	22.90	14.96	37.86	43.50	-5.64	peak			
3		377.5833	7.53	18.92	26.45	46.00	-19.55	peak			
4		629.7833	1.69	23.40	25.09	46.00	-20.91	peak			
5		809.2333	1.46	27.32	28.78	46.00	-17.22	peak		·	
6		967.6667	2.26	29.83	32.09	54.00	-21.91	peak			

RESULT: PASS

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

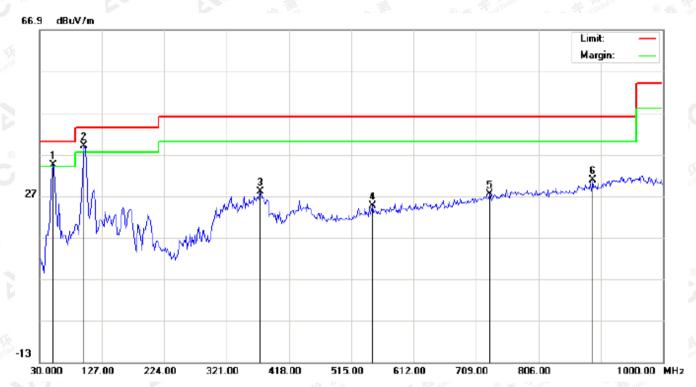
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	į	51.0167	24.31	10.15	34.46	40.00	-5.54	peak			
2	*	99.5167	29.01	10.00	39.01	43.50	-4.49	peak			
3		372.7333	9.19	18.89	28.08	46.00	-17.92	peak			
4		547.3333	2.24	22.41	24.65	46.00	-21.35	peak			
5		730.0167	1.34	26.07	27.41	46.00	-18.59	peak			
6		890.0667	2.38	28.35	30.73	46.00	-15.27	peak			

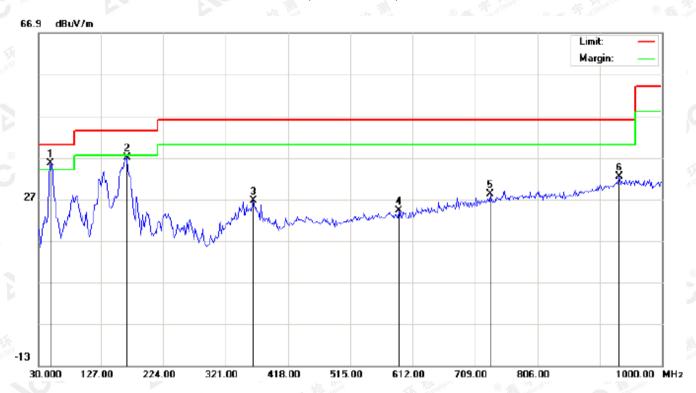
DECI II T. DACC

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



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	*	49.3998	27.33	8.28	35.61	40.00	-4.39	peak			
2		167.4167	22.10	14.86	36.96	43.50	-6.54	peak			
3		364.6500	7.84	18.84	26.68	46.00	-19.32	peak			
4		590.9833	1.52	22.68	24.20	46.00	-21.80	peak			
5		733.2500	2.05	26.15	28.20	46.00	-17.80	peak			
6		933.7167	2.89	29.55	32.44	46.00	-13.56	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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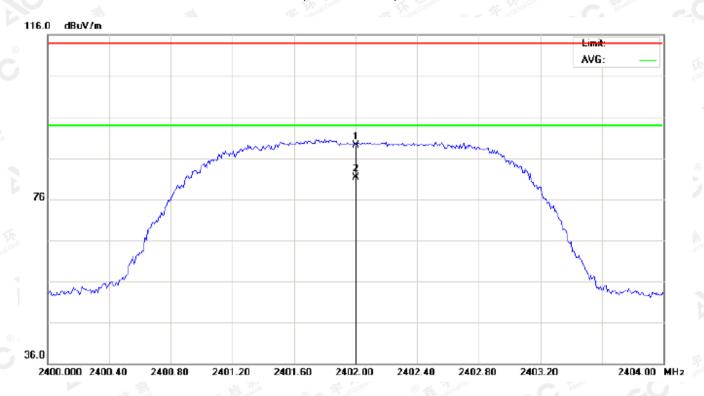
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: π /4-DQPSK)

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	78.85	10.32	89.17	114.00	-24.83	peak			
2	*	2402.000	70.91	10.32	81.23	94.00	-12.77	AVG	100	45	

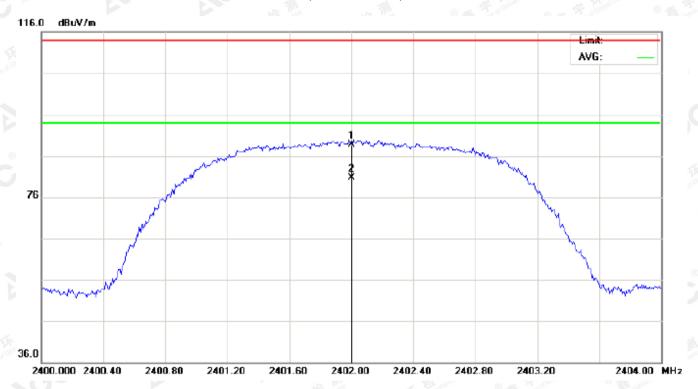
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	78.38	10.32	88.70	114.00	-25.30	peak			
2	*	2402.000	70.36	10.32	80.68	94.00	-13.32	AVG	100	220	

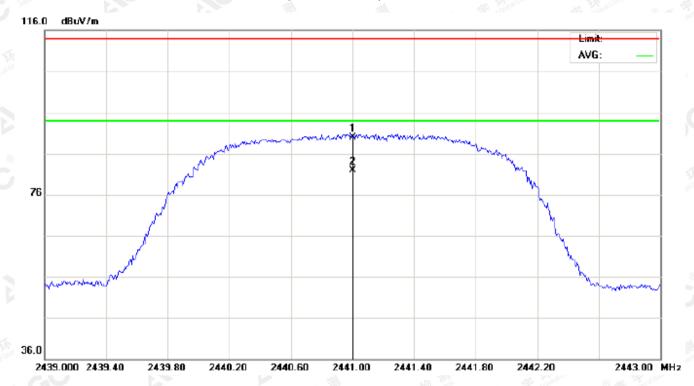
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE 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		2441.000	79.60	10.36	89.96	114.00	-24.04	peak			
2	*	2441.000	71.61	10.36	81.97	94.00	-12.03	AVG	100	48	

RESULT: PASS

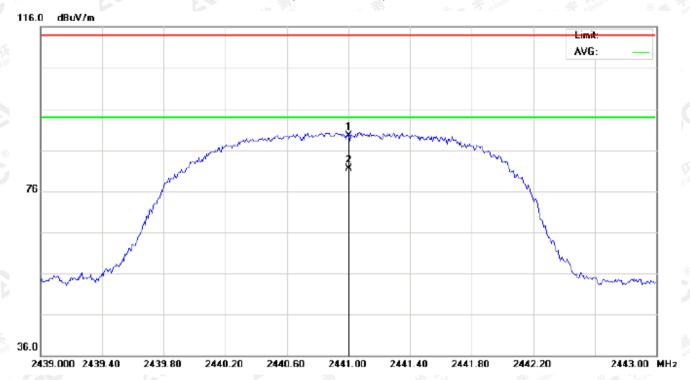
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



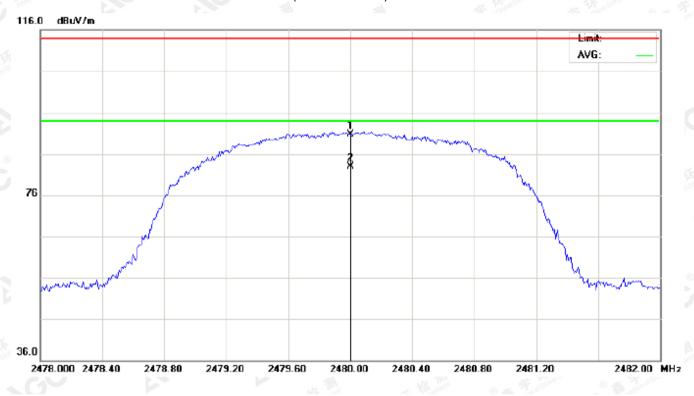
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	79.14	10.36	89.50	114.00	-24.50	peak			
2	*	2441.000	71.10	10.36	81.46	94.00	-12.54	AVG	100	225	

RESULT: PASS



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



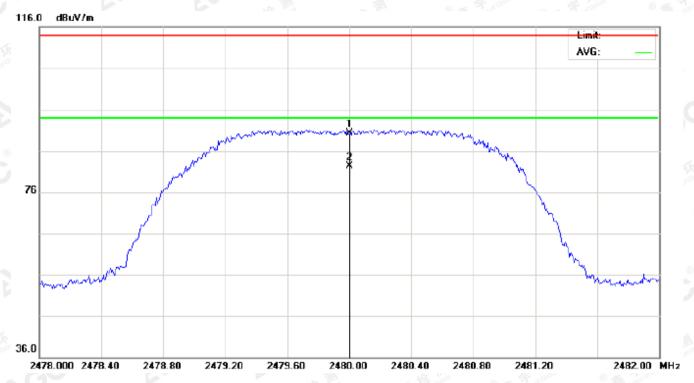
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	80.35	10.41	90.76	114.00	-23.24	peak			
2	*	2480.000	72.40	10.41	82.81	94.00	-11.19	AVG	100	46	

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		2480.000	79.85	10.41	90.26	114.00	-23.74	peak			
2	*	2480.000	71.87	10.41	82.28	94.00	-11.72	AVG	100	228	

RESULT: PASS

Note: 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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Field strength of the fundamental signal 2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.85	10.32	89.17	114	-24.83	Horizontal	
2402	78.38	10.32	88.70	114	-25.30	Vertical	
2441	79.60	10.36	89.96	114	-24.04	Horizontal	
2441	79.14	10.36	89.50	114	-24.50	Vertical	
2480	80.35	10.41	90.76	114	-23.24	Horizontal	
2480	79.85	10.41	90.26	114	-23.74	Vertical	

Average value

Frequency	Reading	Factor	Measurement	Limit	Over	Antenna	
(MHz)	Level (dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	70.91	10.32	81.23	94	-12.77	Horizontal	
2402	70.36	10.32	80.68	94	-13.32	Vertical	
2441	71.61	10.36	81.97	94	-12.03	Horizontal	
2441	71.10	10.36	81.46	94	-12.54	Vertical	
2480	72.40	10.41	82.81	94	-11.19	Horizontal	
2480	71.87	10.41	82.28	94	-11.72	Vertical	



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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.35	10.32	88.67	114	-25.33	Horizontal	
2402	77.93	10.32	88.25	114	-25.75	Vertical	
2441	79.11	10.36	89.47	114	-24.53	Horizontal	
2441	78.70	10.36	89.06	114	-24.94	Vertical	
2480	79.93	10.41	90.34	114	-23.66	Horizontal	
2480	79.54	10.41	89.95	114	-24.05	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	70.58	10.32	80.90	94	-13.10	Horizontal
2402	69.95	10.32	80.27	94	-13.73	Vertical
2441	71.23	10.36	81.59	94	-12.41	Horizontal
2441	70.60	10.36	80.96	94	-13.04	Vertical
2480	72.05	10.41	82.46	94	-11.54	Horizontal
2480	71.41	10.41	81.82	94	-12.18	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	78.04	10.32	88.36	114	-25.64	Horizontal
2402	77.43	10.32	87.75	114	-26.25	Vertical
2441	78.66	10.36	89.02	114	-24.98	Horizontal
2441	78.31	10.36	88.67	114	-25.33	Vertical
2480	79.53	10.41	89.94	114	-24.06	Horizontal
2480	79.16	10.41	89.57	114	-24.43	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	70.23	10.32	80.55	94	-13.45	Horizontal	
2402	69.48	10.32	79.80	94	-14.20	Vertical	
2441	70.75	10.36	81.11	94	-12.89	Horizontal	
2441	70.28	10.36	80.64	94	-13.36	Vertical	
2480	71.63	10.41	82.04	94	-11.96	Horizontal	
2480	70.91	10.41	81.32	94	-12.68	Vertical	



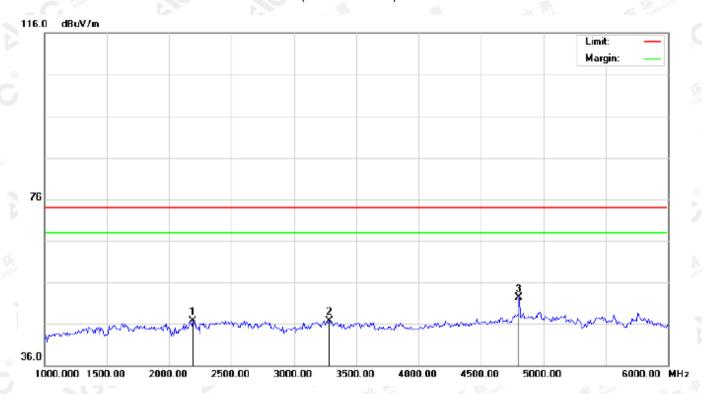
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FOR BR/EDR

(Worst modulation: π /4-DQPSK)

For Harmonics

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		2191.667	36.57	10.09	46.66	74.00	-27.34	peak			
2		3283.333	34.80	11.91	46.71	74.00	-27.29	peak			
3	*	4804.000	44.71	7.69	52.40	74.00	-21.60	peak			

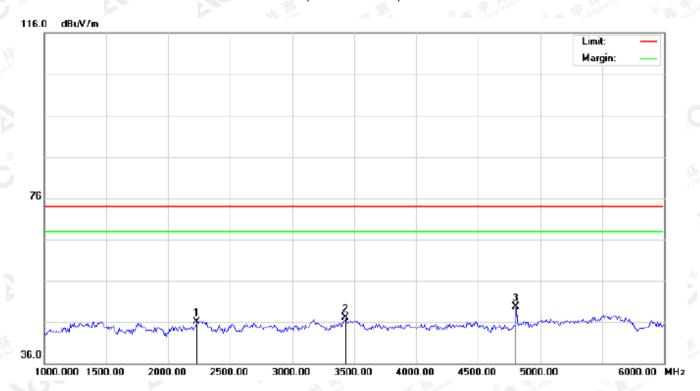
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2233.333	36.05	10.14	46.19	74.00	-27.81	peak			
2		3433.333	35.04	12.05	47.09	74.00	-26.91	peak			
3	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

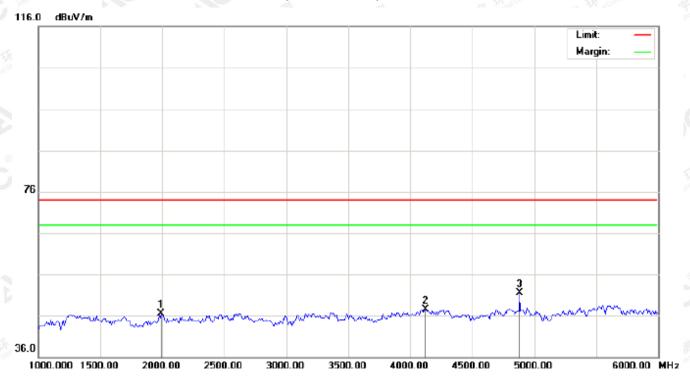
RESULT. PASS

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



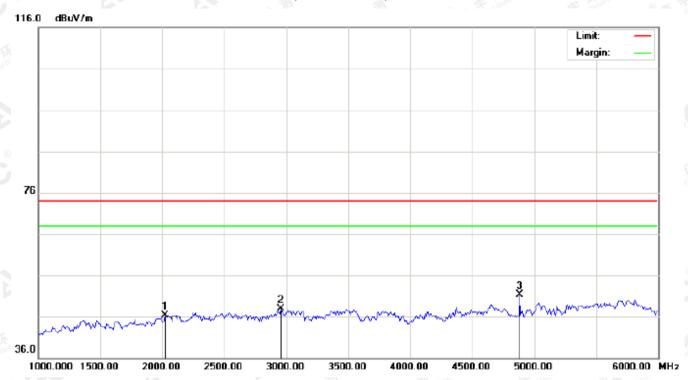
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1991.667	36.70	9.79	46.49	74.00	-27.51	peak			
2		4125.000	34.30	13.11	47.41	74.00	-26.59	peak			
3	*	4882.000	43.66	7.89	51.55	74.00	-22.45	peak			

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



No.	o. N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		. [MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
,	ı		2025.000	36.31	9.91	46.22	74.00	-27.78	peak			
- 2	2		2958.333	36.27	11.54	47.81	74.00	-26.19	peak			
3	3	*	4882.000	43.39	7.89	51.28	74.00	-22.72	peak			

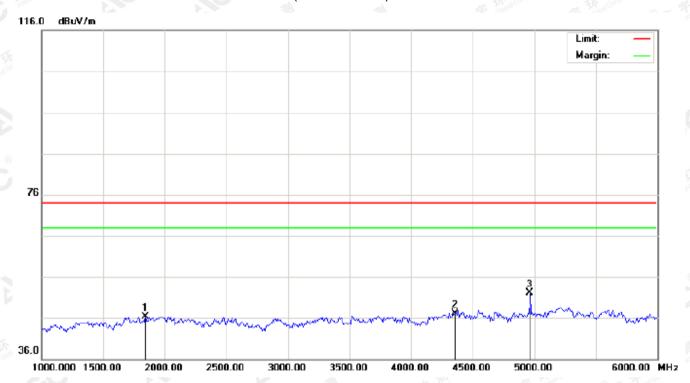
RESULT: PASS

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

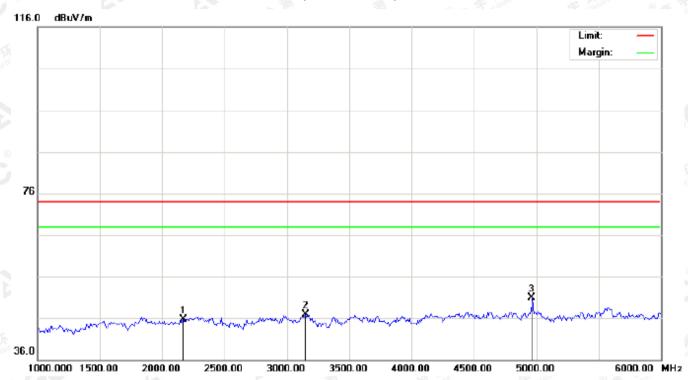


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1841.667	38.07	8.21	46.28	74.00	-27.72	peak			
2		4358.333	37.89	9.24	47.13	74.00	-26.87	peak			
3	*	4960.000	44.10	8.09	52.19	74.00	-21.81	peak			



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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		2166.667	35.60	10.06	45.66	74.00	-28.34	peak			
2		3150.000	35.14	11.78	46.92	74.00	-27.08	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

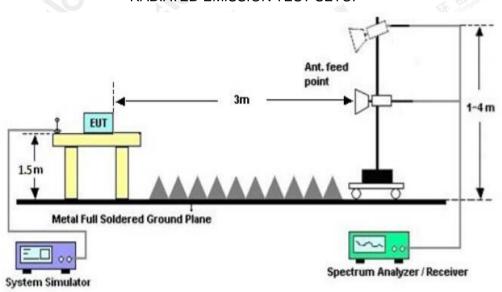
10.1. MEASUREMENT PROCEDURE

- 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	2405					
2478	2500					

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



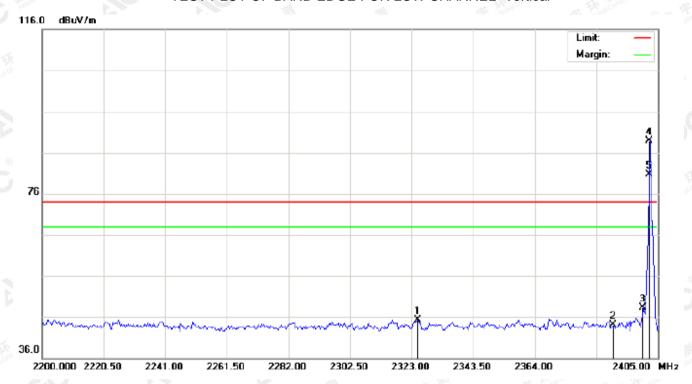
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2330.858	33.39	10.24	43.63	74.00	-30.37	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	41.97	10.32	52.29	74.00	-21.71	peak			
4	*	2402.000	78.91	10.32	89.23	74.00	15.23	peak			
5	Х	2402.000	70.96	10.32	81.28	74.00	7.28	AVG	100	44	

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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
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2325.050	35.09	10.24	45.33	74.00	-28.67	peak			
2		2390.000	33.71	10.31	44.02	74.00	-29.98	peak			
3		2400.000	38.06	10.32	48.38	74.00	-25.62	peak			
4	*	2402.000	78.59	10.32	88.91	74.00	14.91	peak			
5	Х	2402.000	70.36	10.32	80.68	74.00	6.68	AVG	100	224	

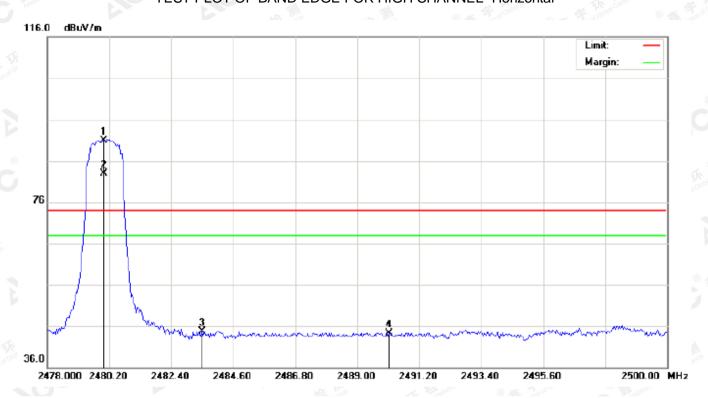
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



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	*	2480.000	80.55	10.41	90.96	74.00	16.96	peak			
2	Х	2480.000	72.40	10.41	82.81	74.00	8.81	AVG	100	45	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2490.137	33.91	10.42	44.33	74.00	-29.67	peak			

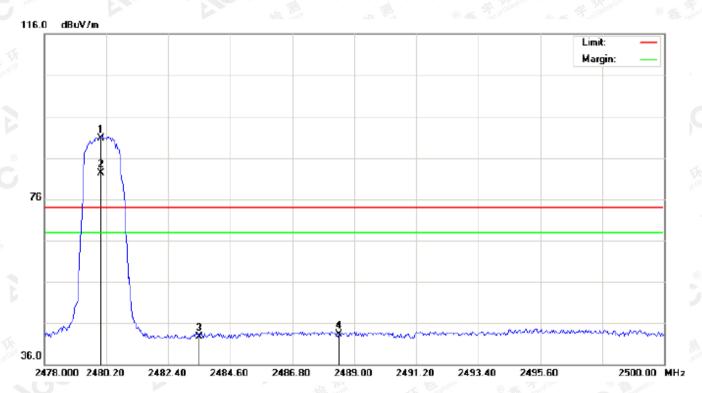
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



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	*	2480.000	80.32	10.41	90.73	74.00	16.73	peak			
2	Х	2480.000	71.87	10.41	82.28	74.00	8.28	AVG	100	220	
3		2483.500	32.26	10.41	42.67	74.00	-31.33	peak			
4		2488.450	32.80	10.42	43.22	74.00	-30.78	peak			

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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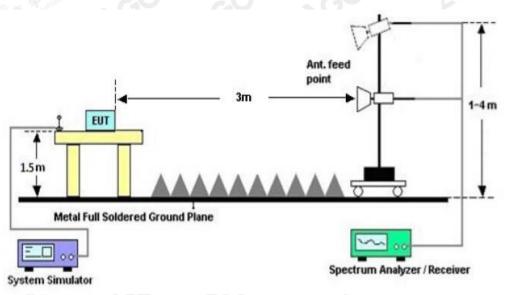
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11, 20DB BANDWIDTH

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

FOR BR/EDR

. Pr. I' o	- 1/2° 1/2'	7.70						
BLUETO	OOTH 1MBPS LIN	IITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		5 11						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
A Solut Company (S) Millestion o	Low Channel	0.926	1.083	PASS				
N/A	Middle Channel	0.930	1.092	PASS				
711	High Channel	0.919	1.085	PASS				

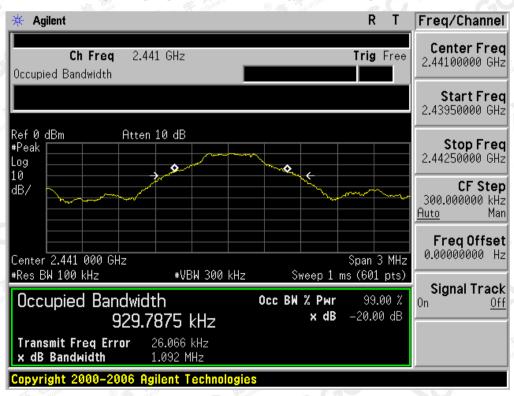
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

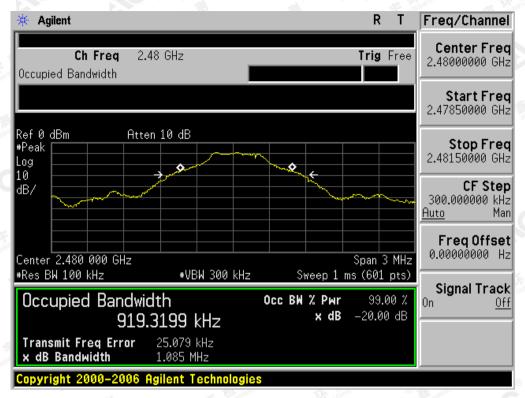


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



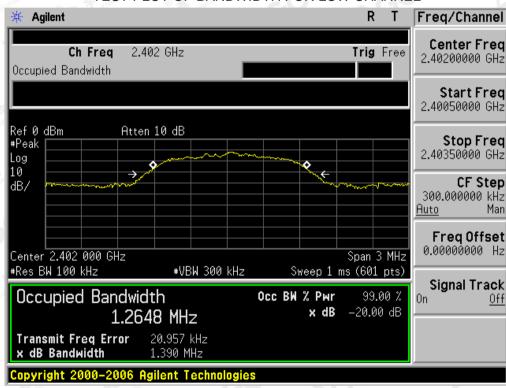
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT Measurement Result Applicable Limits Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.265 1.390 **PASS** Middle Channel 1.506 1.454 **PASS High Channel** 1.268 1.395 **PASS**

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

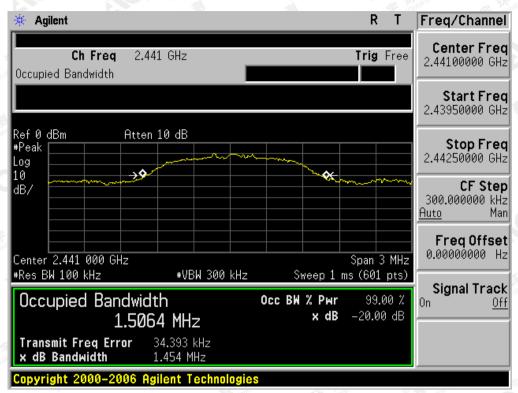


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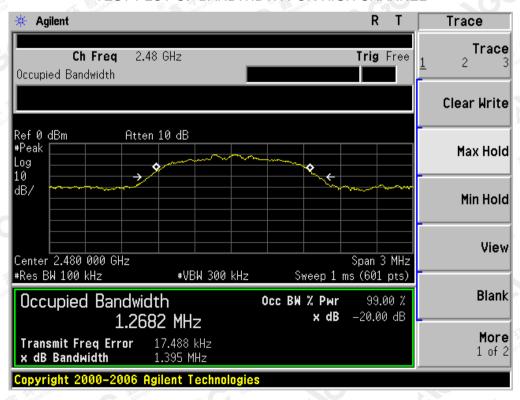
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

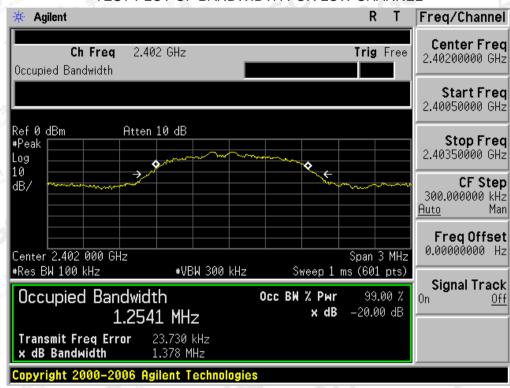


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	4011	112	and a support	- M alo	
BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		Daguit			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The fill of the fi	Low Channel	1.254	1.378	PASS	
N/A	Middle Channel	1.546	1.461	PASS	
	High Channel	1.264	1.394	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

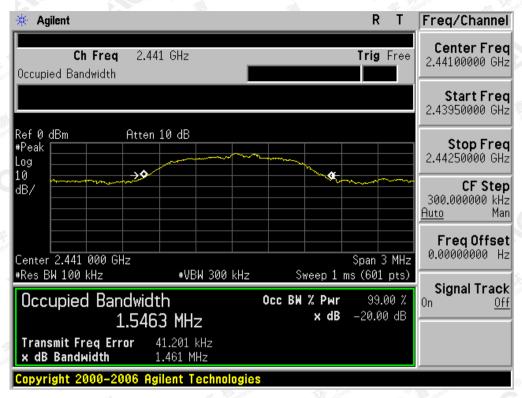


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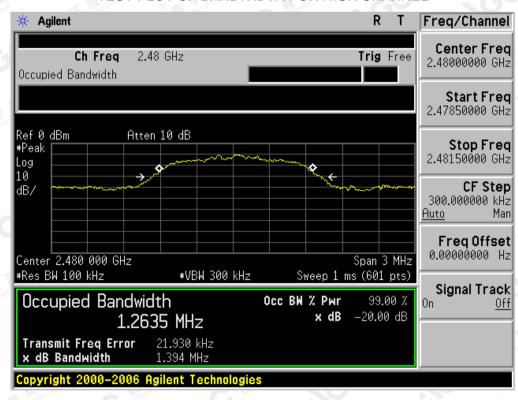
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

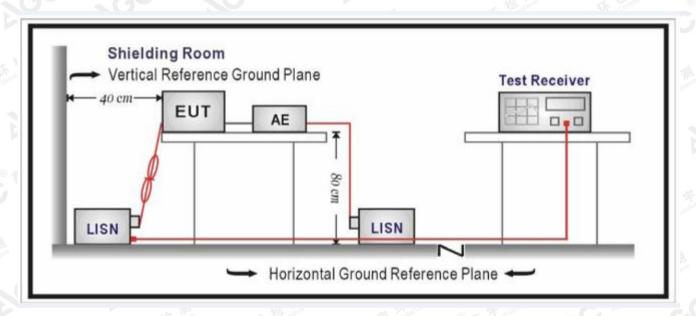
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	© 45 miles 156 m	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



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 The results a simulate typical matter of the report of the report of the report of the report will be confirmed that the substitute of the report will be confirmed that typical communities and the authenticity of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the report will be confirmed that typical communities are the substitute of the substit



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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

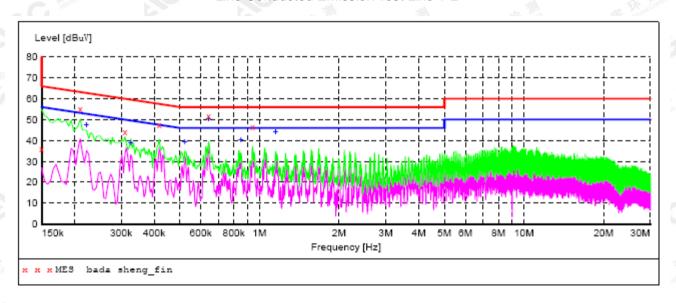
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By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "bada sheng fin"

2018/7/23 15:1	.9							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				SIAIE
0.150000 0.210000	36.10 55.00	0.2	80 63	43.9 8.2	QP OP	L1 L1	GND GND	ON
0.310000	44.20	0.2	60	15.8	QP	L1	GND	ON
0.418000 0.642000	47.70 52.00	0.2	58 56	9.8 4.0	QP QP	L1 L1	GND GND	ON
0.942000	46.40	0.2	56	9.6	QP	L1	GND	ON

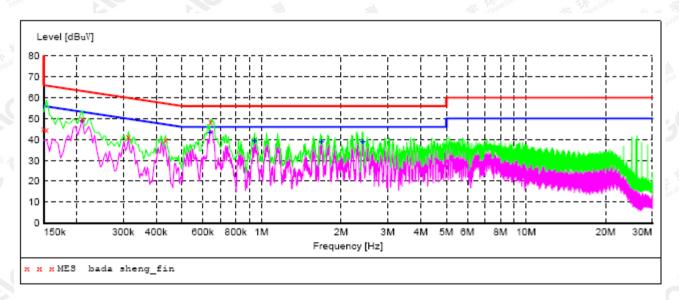
MEASUREMENT RESULT: "bada sheng fin2"

2018/7/23 15:1 Frequency		Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	\mathtt{dBuV}	dB				
0.222000 0.326000 0.522000 0.642000 0.850000 1.150000	47.60 39.10 39.20 50.30 40.20 44.00	0.2 0.2 0.2 0.2 0.2 0.2	53 50 46 46 46 46		AV AV AV AV AV	L1 L1 L1 L1 L1	GND GND GND GND GND GND	ON ON ON ON

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "bada sheng fin"

2	018/7/23 15	:28							
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX
	MHz	dBuV	dB	dBuV	dB				STATE
	0.150000 0.154000	45.30 44.50	0.2	80 66	34.7 21.3	QP OP	N N	GND GND	ON
	0.210000	50.00	0.2	63	13.2	QP	N	GND	ON
	0.314000	41.50 39.90	0.2	60 57	18.4 17.3	QP QP	N N	GND	ON
	0.642000	48.60	0.2	56	7.4	QP	N	GND	ON

MEASUREMENT RESULT: "bada sheng fin2"

2018/7/23 15:28								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX
MHz	dBuV	dB	$\mathtt{d}\mathtt{B}\mathbf{u} \mathtt{V}$	dB				STATE
0.210000	49.00	0.2	53	4.2	AV	N	GND	ON
0.638000	43.50	0.2	46	2.5	AV	N	GND	ON
0.942000	39.40	0.2	46	6.6	AV	N	GND	ON
1.686000	38.80	0.3	46	7.2	AV	N	GND	ON
2.406000	38.90	0.3	46	7.1	AV	N	GND	ON
2.418000	39.10	0.3	46	6.9	AV	N	GND	ON

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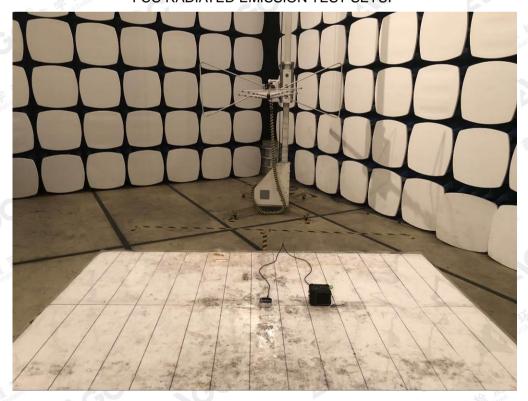


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



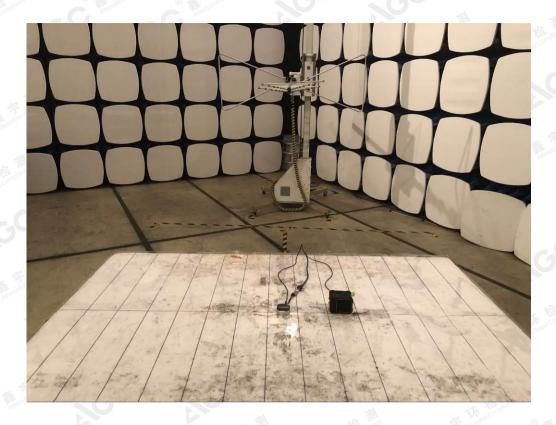
FCC RADIATED EMISSION TEST SETUP



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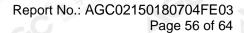




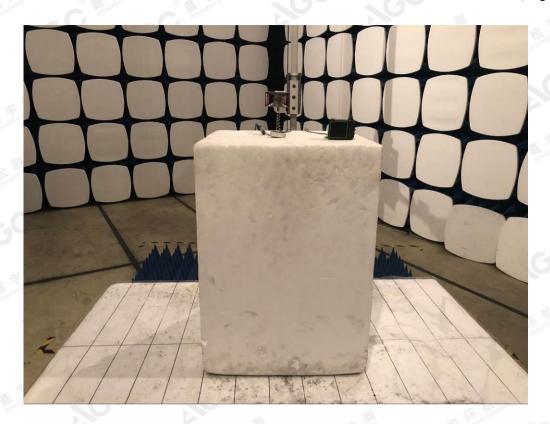


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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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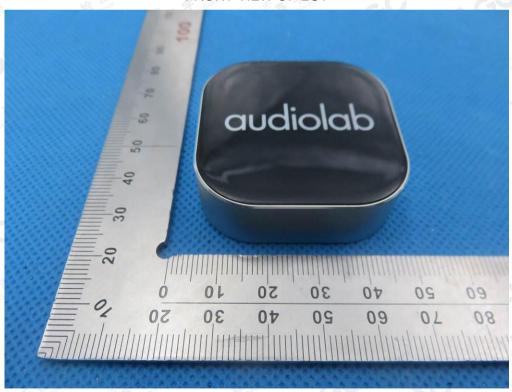
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BOTTOM VIEW OF EUT



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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VIEW OF BATTERY



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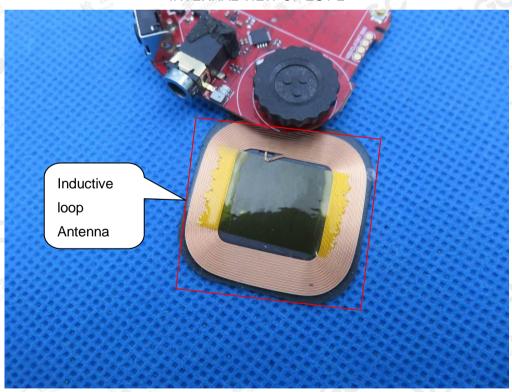
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

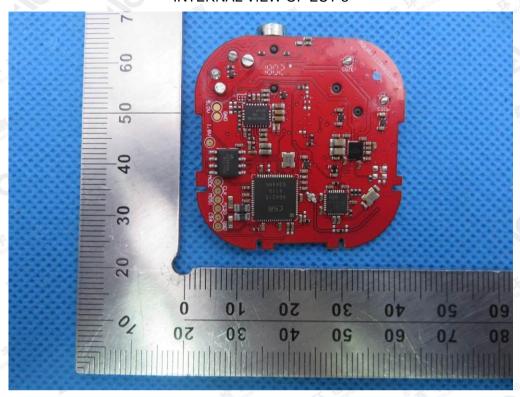


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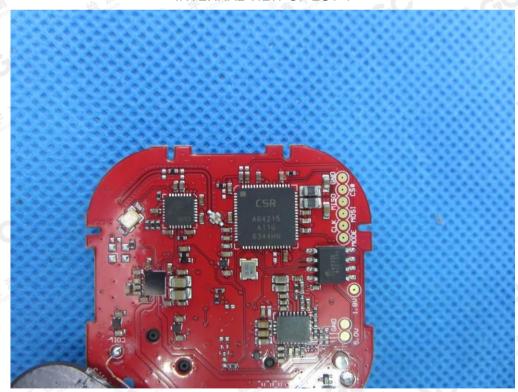
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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Charging Dock

VIEW OF EUT (Port)



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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