



12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency,

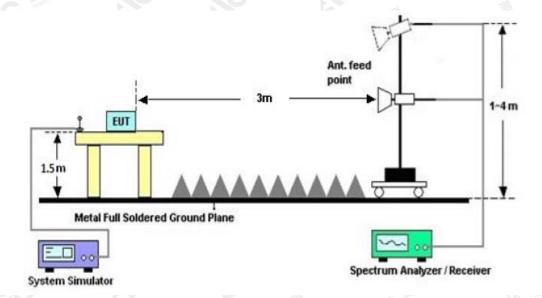
For unrestricted band: RBW=100kHz, VBW=300kHz

For restricted band: RBW=1MHz, VBW=3*RBW

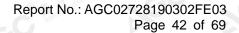
Center frequency = Operation frequency

3. The band edges was measured and recorded.

12.2. TEST



The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



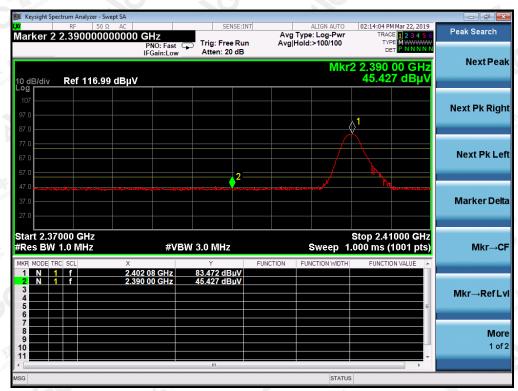


12.3. TEST RESULT

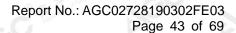
FOR BR/EDR:

EUT:	Multifunctional FM Radio Speaker	Model Name. :	CR3037A
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60 Hz
Test Mode :	Mode 1	Polarization:	Horizontal

PK Value



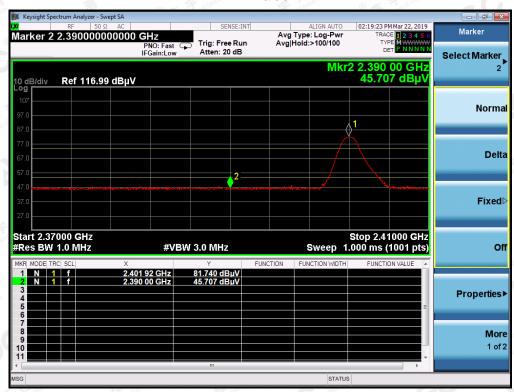
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by (CC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gott.com.





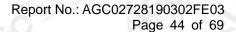
EUT:	Multifunctional FM Radio Speaker	Model Name. :	CR3037A
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60 Hz
Test Mode :	Mode 1	Polarization :	Vertical

PK Value



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

Attestation of Global Compliance





EUT:	Multifunctional FM Radio Speaker	Model Name. :	CR3037A
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60 Hz
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the

IGC 8





EUT:	Multifunctional FM Radio Speaker	Model Name. :	CR3037A
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60 Hz
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



Note: 1.The π /4-DQPSK modulation was the worst case and only the data of worst recorded in this report.

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.

The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.

Attestation of Global Compliance

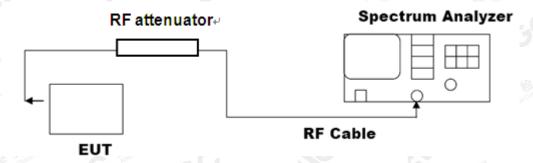


13. NUMBER OF HOPPING FREQUENCY

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=3RBW.

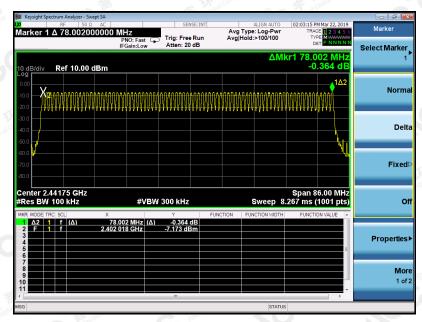
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



13.3. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT	
HOPPING CHANNEL	>=15	79	PASS	

TEST PLOT FOR NO. OF TOTAL CHANNELS



Note: All modes were tested, the test records reported is modulation GFSK.

The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Report No.: AGC02728190302FE03

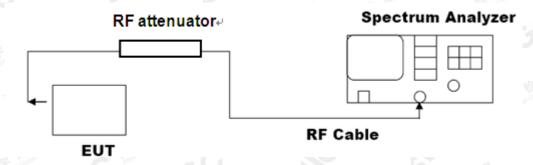
Page 47 of 69

14. TIME OF OCCUPANCY (DWELL TIME)

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



14.3. LIMITS AND MEASUREMENT RESULT

The Worst Case (1Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)	
Low	3.000	31.6	320.00	400	
Middle	3.000	31.6	320.00	400	
High	3.004	31.6	320.43	400	

Low Channel Time

3.000*(1600/6)/79*31.6=320.00ms

Middle Channel Time

3.000*(1600/6)/79*31.6=320.00ms

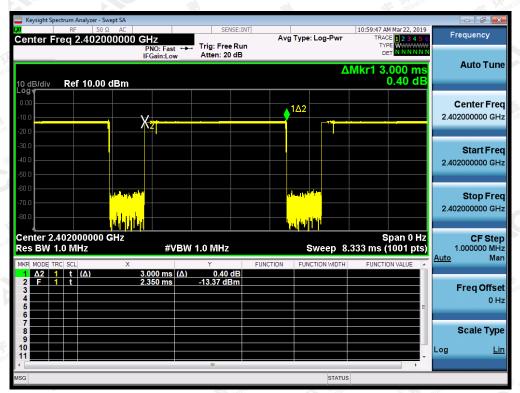
High Channel Time

3.004*(1600/6)/79*31.6=320.43ms

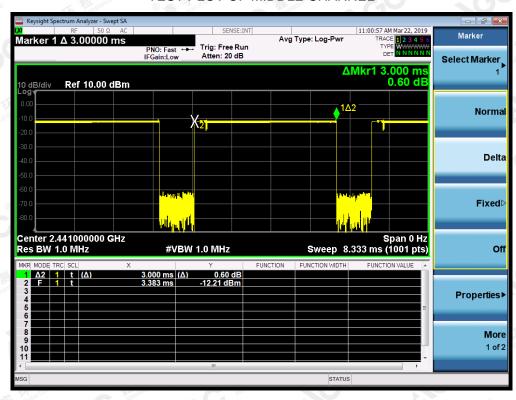
The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



TEST PLOT OF LOW CHANNEL



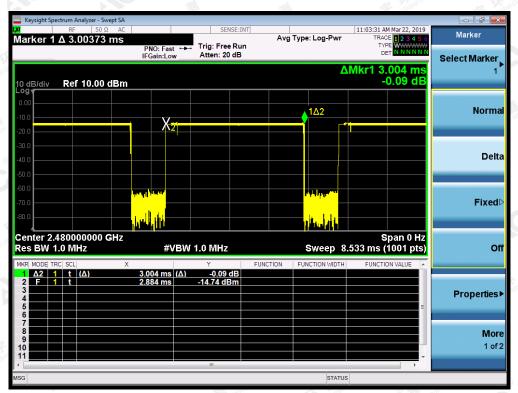
TEST PLOT OF MIDDLE CHANNEL



The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ACC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



TEST PLOT OF HIGH CHANNEL



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the

AGC 8



Report No.: AGC02728190302FE03

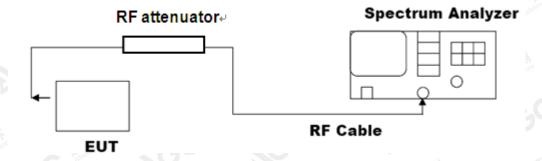
Page 50 of 69

15. FREQUENCY SEPARATION

15.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



15.3. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
	KHz	KHz		
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass	

TEST PLOT FOR FREQUENCY SEPARATION (2Mbps)



The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Report No.: AGC02728190302FE03

Page 52 of 69

16. LINE CONDUCTED EMISSION TEST

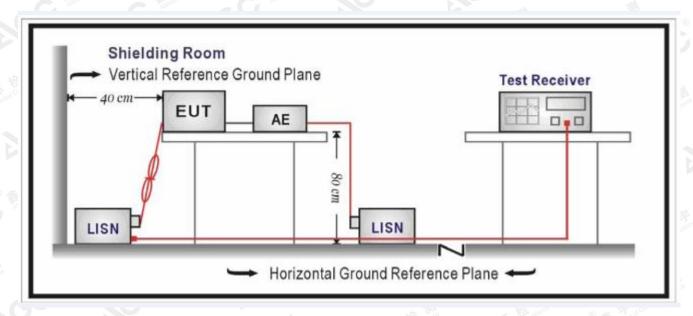
16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	○ # 56	46 × 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.

16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.go.tt.com.



Report No.: AGC02728190302FE03

Page 53 of 69

16.3. 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 voltage by battery 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.

16.4. 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.
- The test data of the worst case condition(s) was reported on the Summary Data page.

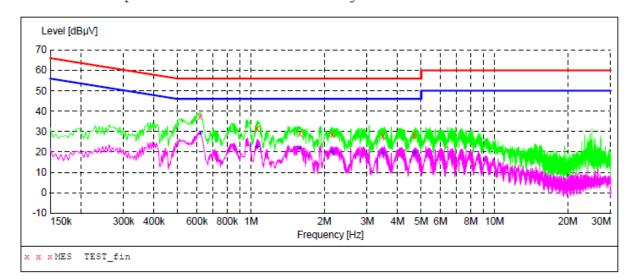
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L

SCAN TABLE: "Voltage (9K-30M)FS L"
Short Description: 9k-30M Voltage



MEASUREMENT RESULT: "TEST fin"

3/21/2019	2:07PM						
Frequen M	cy Level Hz dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.6180	00 37.30	10.3	56	18.7	QP	L1	FLO
1.0580	00 31.50	10.4	56	24.5	QP	L1	FLO
1.5860	00 28.90	10.4	56	27.1	QP	L1	FLO
2.1580	00 28.50	10.4	56	27.5	QP	L1	FLO
3.4780	00 28.00	10.4	56	28.0	QP	L1	FLO
4.6900	00 28.40	10.4	56	27.6	QP	L1	FLO

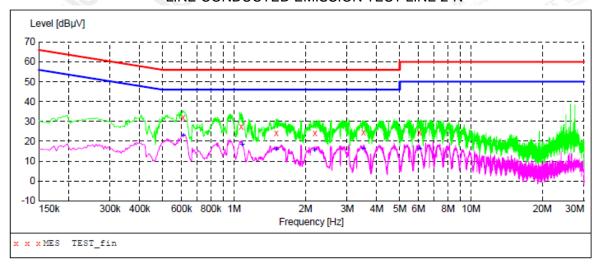
MEASUREMENT RESULT: "TEST fin2"

3/21/2019	2:07PM						
Frequen M	icy Lev IHz dB			Margin dB	Detector	Line	PE
0.6180	00 28.	90 10.3	46	17.1	AV	L1	FLO
1.0580	00 22.	60 10.4	46	23.4	AV	L1	FLO
1.5860	00 21.	60 10.4	46	24.4	AV	L1	FLO
2.1580	00 20.	00 10.4	46	26.0	AV	L1	FLO
3.4780	00 19.	40 10.4	46	26.6	AV	L1	FLO
4.6900	00 19.	60 10.4	46	26.4	AV	L1	FLO

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true;//www.agc.gett.com.



LINE CONDUCTED EMISSION TEST LINE 2-N



MEASUREMENT RESULT: "TEST fin"

3/21/	2019	2:02PM		
_		_	_	

,,							
Frequenc MH	-			_	Detector	Line	PE
0.61000	00 32.2	0 10.3	56	23.8	QP	N	FLO
1.07400	00 27.5	0 10.4	56	28.5	QP	N	FLO
1.50600	00 24.3	0 10.4	56	31.7	QP	N	FLO
2.19800	00 24.2	0 10.4	56	31.8	QP	N	FLO
3.51800	00 24.5	0 10.4	56	31.5	QP	N	FLO
6.06200	00 24.4	0 10.5	60	35.6	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

3/21/2019 2 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.610000	22.90	10.3	46	23.1	AV	N	FLO
1.082000	18.30	10.4	46	27.7	AV	N	FLO
1.506000	16.00	10.4	46	30.0	AV	N	FLO
2.186000	15.20	10.4	46	30.8	AV	N	FLO
3.518000	16.30	10.4	46	29.7	AV	N	FLO
6.062000	16.20	10.5	50	33.8	AV	N	FLO

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the confirmed at although the confirmed at all the c

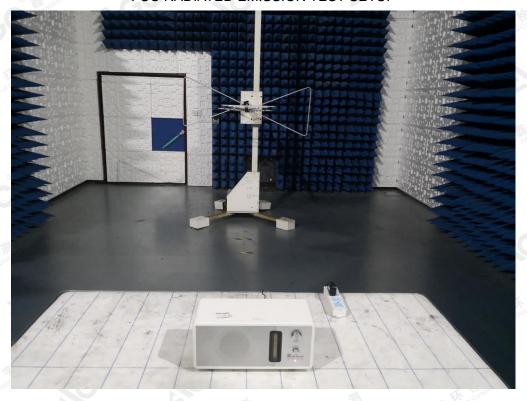


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST SETUP

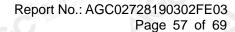


FCC RADIATED EMISSION TEST SETUP



The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a titp://www.agc.gett.com.

Attestation of Global Compliance







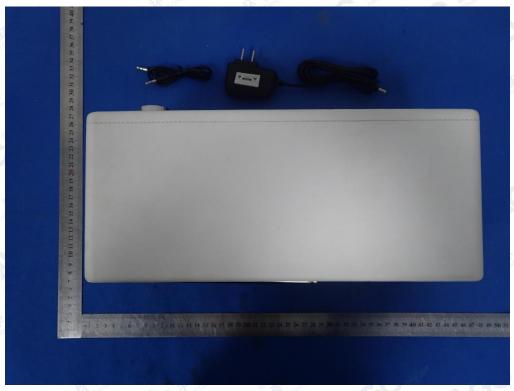
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by (GC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true; //www.agc gett.com.

Attestation of Global Compliance



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the AGC 8

Attestation of Global Compliance

Tel: +86-755 2908 1955

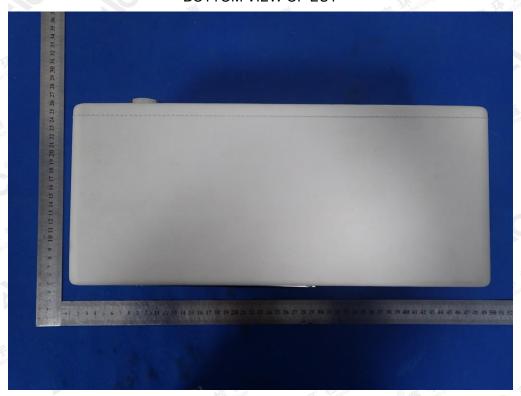
E-mail: agc@agc-cert.com

@ 400 089 2118

Fax: +86-755 2600 8484 $Add: 2/F.\ , Building\ 2, No.1-4, Chaxi\ Sanwei\ Technical\ Industrial\ Park, Gushu,\ Xixiang,\ Baoan\ District,\ Shenzhen,\ Guangdong\ Chinand Chin$



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the

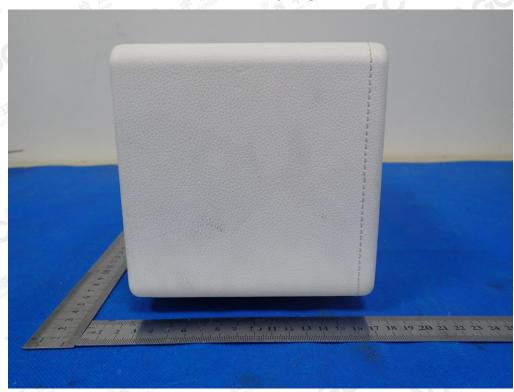
Attestation of Global Compliance



BACK VIEW OF EUT



LEFT VIEW OF EUT

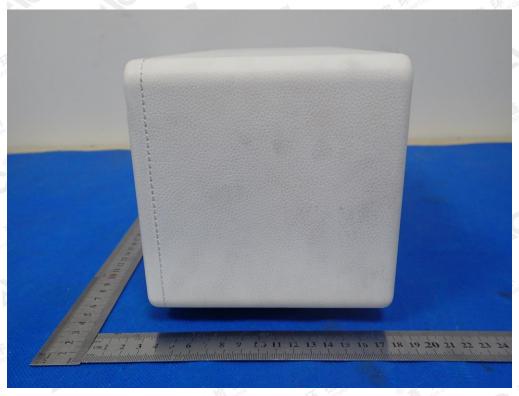


The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the

Attestation of Global Compliance



RIGHT VIEW OF EUT



VIEW OF EUT (PORT)-1



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 100°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at although the confirmed at all the

Attestation of Global Compliance

Tel: +86-755 2908 1955

Fax: +86-755 2600 8484

E-mail: agc@agc-cert.com

6 400 089 2118

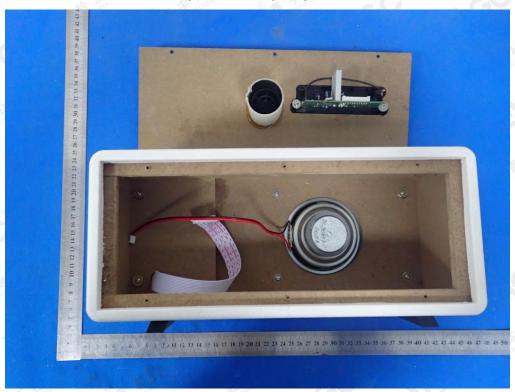
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



VIEW OF EUT (PORT)-2



OPEN VIEW OF EUT-1

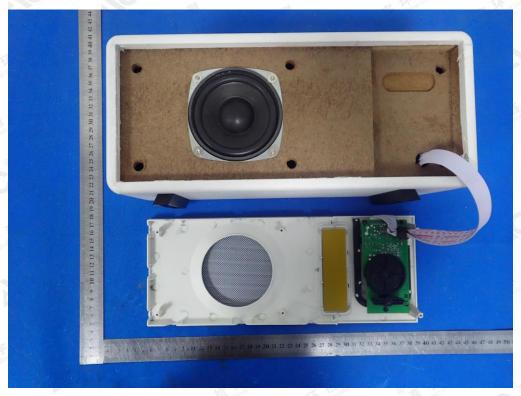


The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a titp://www.agc.gett.com.

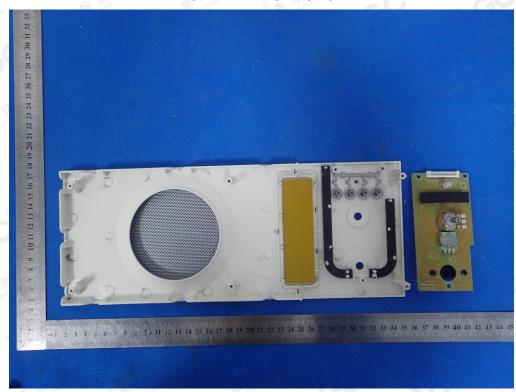
Attestation of Global Compliance



OPEN VIEW OF EUT-2



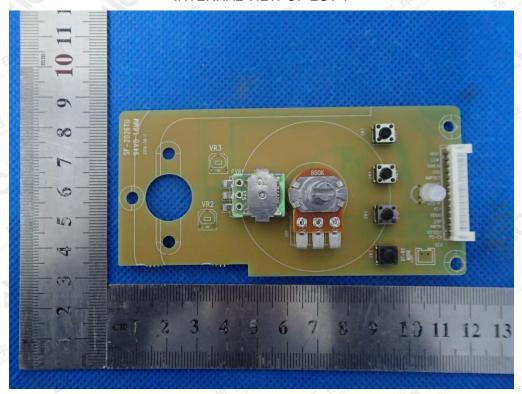
OPEN VIEW OF EUT-3



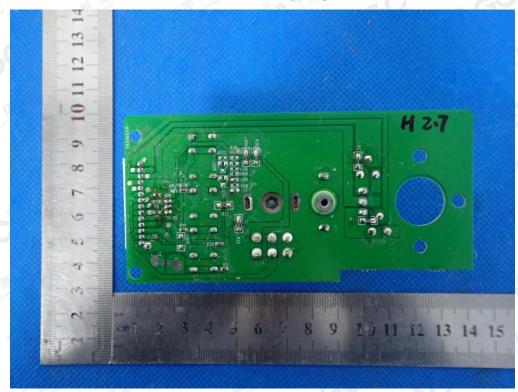
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance





INTERNAL VIEW OF EUT-2

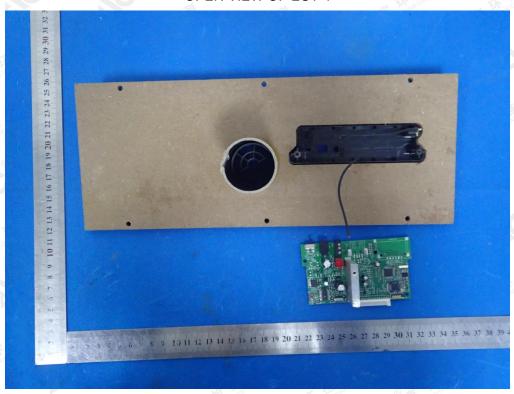


The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a titp://www.agc.gett.com.

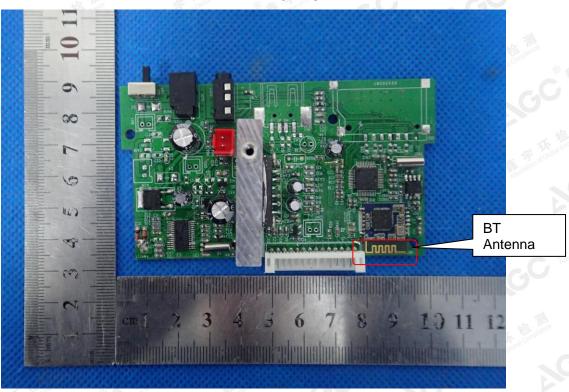
Attestation of Global Compliance



OPEN VIEW OF EUT-4



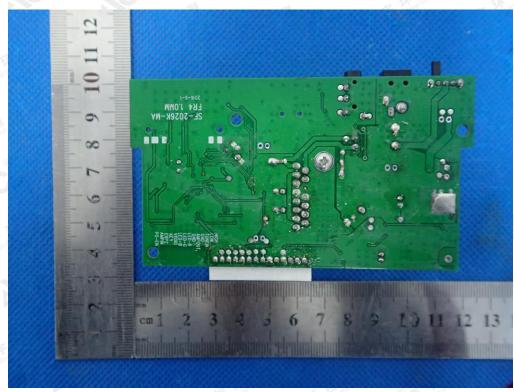
INTERNAL VIEW OF EUT-1



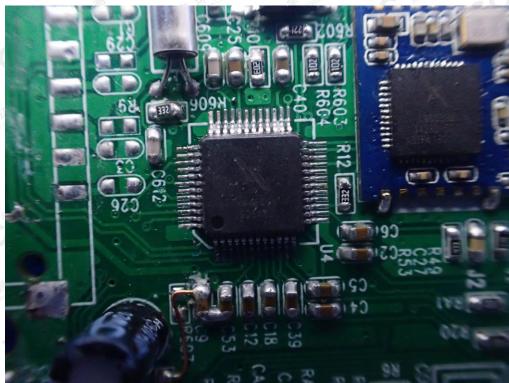
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance





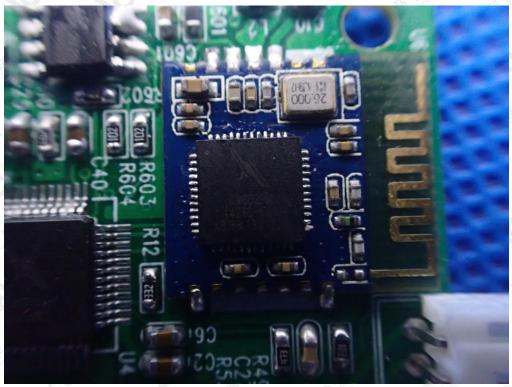
INTERNAL VIEW OF EUT-3



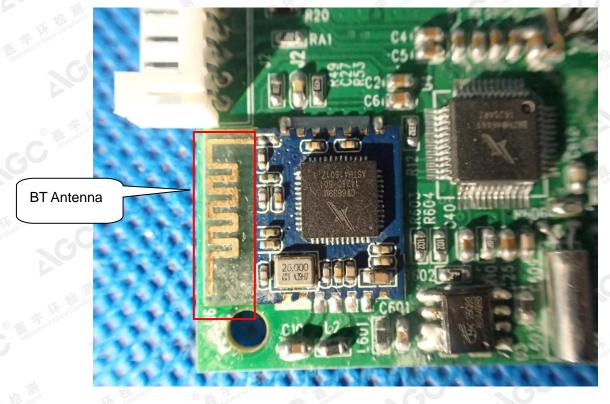
The results spowth this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance





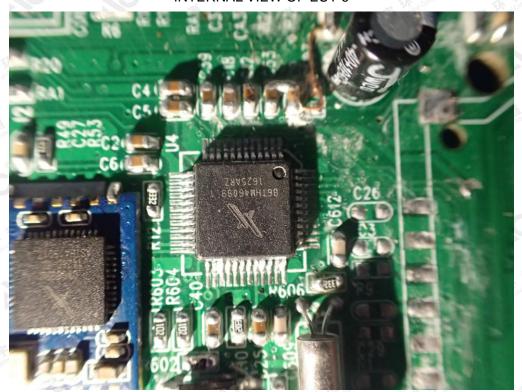
INTERNAL VIEW OF EUT-5



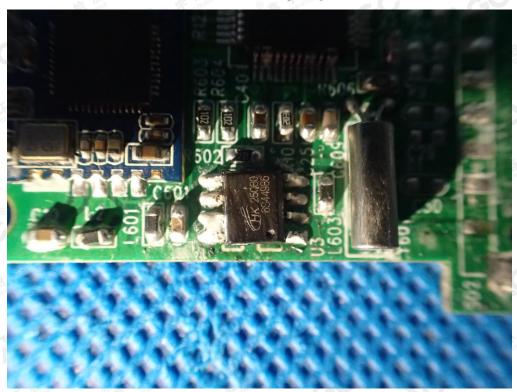
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

Attestation of Global Compliance





INTERNAL VIEW OF EUT-7



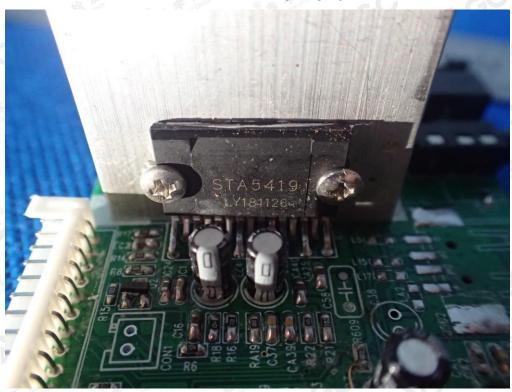
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

Attestation of Global Compliance





INTERNAL VIEW OF EUT-9



----END OF REPORT----

The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a titp://www.agc.gett.com.

Attestation of Global Compliance