

ne test report.

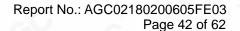


EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Horizontal

EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Trea
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	45.79	0.14	45.93	74	-28.07	peak
4882.000	37.32	0.14	37.46	54	-16.54	AVG
7323.000	40.41	2.36	42.77	74	-31.23	peak
7323.000	31.5	2.36	33.86	54	-20.14	AVG
-6	@			.0		
emark:		®				
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			

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EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.58	0.22	46.8	74	-27.2	peak
4960.000	38.71	0.22	38.93	54	-15.07	AVG
7440.000	41.43	2.64	44.07	74	-29.93	peak
7440.000	32.55	2.64	35.19	54	-18.81	AVG
0				©		
	(8)				8	
Remark:	- C	3			- 0	8
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.		10	-C

EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	$(dB\mu V/m)$	(dB)	value Type
4960.000	45.96	0.22	46.18	74	-27.82	peak
4960.000	38.87	0.22	39.09	54	-14.91	AVG
7440.000	41.63	2.64	44.27	74	-29.73	peak
7440.000	33.45	2.64	36.09	54	-17.91	AVG
		GU	(8)	®		
mark:	@		<b>NO</b>	. C.	(8)	

### **RESULT: PASS**

#### Noto:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

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

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

All test modes had been tested. The  $\pi$  /4-DQPSK modulation is the worst case and recorded in the report.

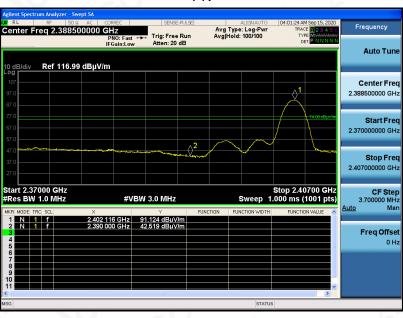
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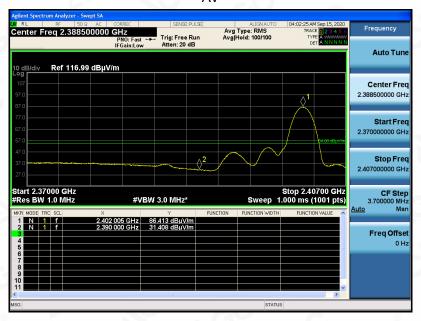
### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

### PΚ



### ΑV



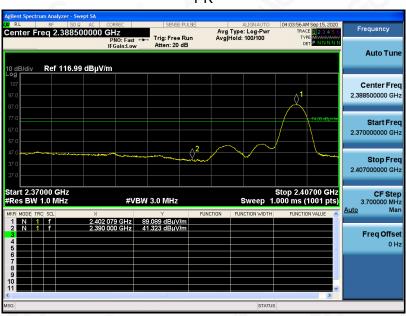
**RESULT: PASS** 

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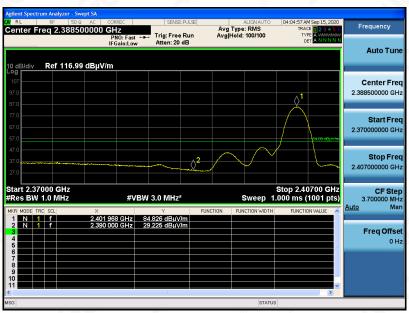


EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

PK



ΑV



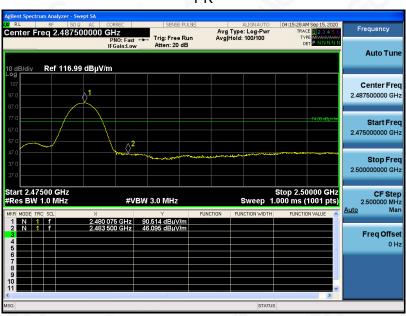
**RESULT: PASS** 

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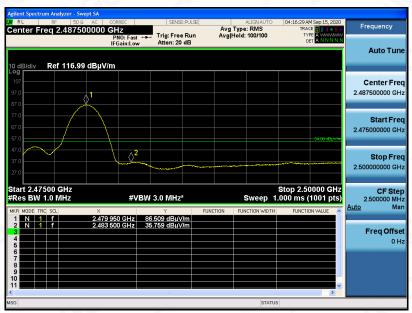


EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

#### PK



#### ΑV



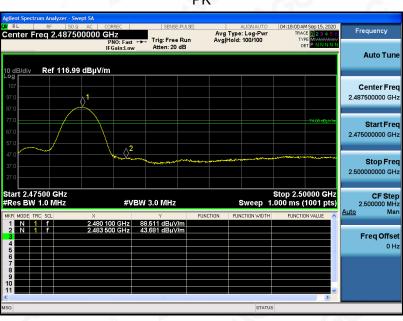
**RESULT: PASS** 

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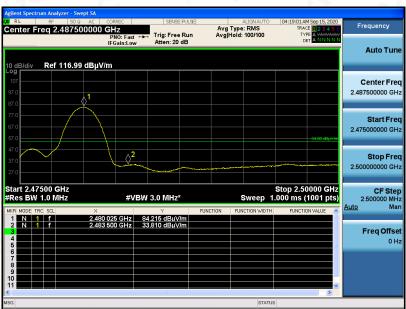


EUT	Wireless hands free car kit	Model Name	SBTFM2
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

PK



ΑV



### **RESULT: PASS**

**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The  $\pi$  /4-DQPSK modulation is the worst case and recorded in the report.

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# 11. NUMBER OF HOPPING FREQUENCY

#### 11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3. VBW RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
- 4. Allow the trace to stabilize.

# 11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

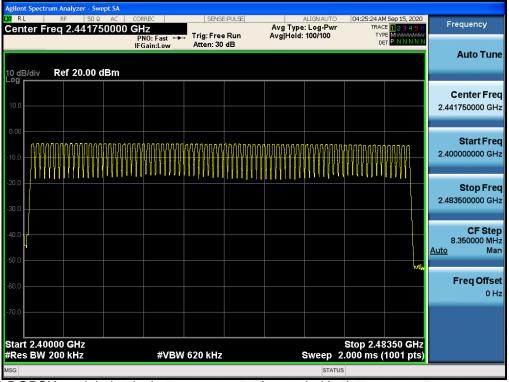
#### 11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

#### 11.4. LIMITS AND MEASUREMENT RESULT

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

### TEST PLOT FOR NO. OF TOTAL CHANNELS



Note: The  $\pi$  /4-DQPSK modulation is the worst case and recorded in the report.

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# 12. TIME OF OCCUPANCY (DWELL TIME)

### 12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Zero span, centered on a hopping channel.
- 2. RBW shall be ≤channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- 4. Detector function: Peak. Trace: Max hold.
- 5. Use the marker-delta function to determine the transmit time per hop.
- 6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer)  $\times$  (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

## 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

### 12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

#### 12.4. LIMITS AND MEASUREMENT RESULT

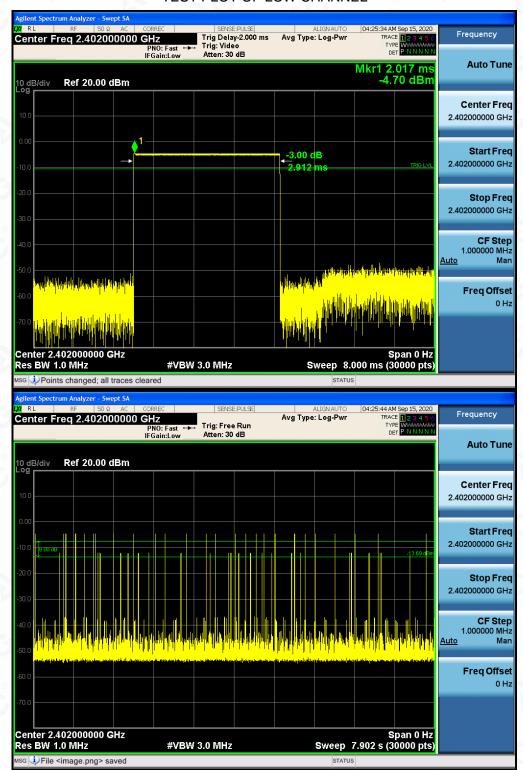
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.912	27*4	314.496	400
Middle	2.912	25*4	291.200	400
High	2.895	31*4	358.980	400

Note: The  $\pi$  /4-DQPSK modulation is the worst case and recorded in the report.

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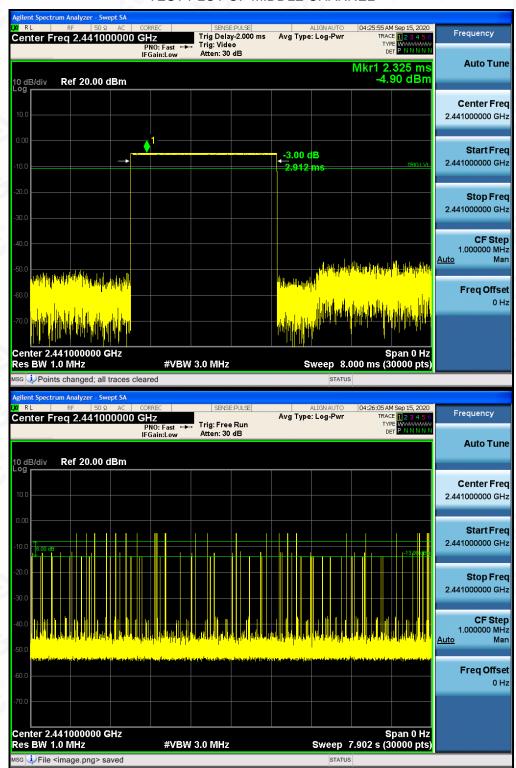
### TEST PLOT OF LOW CHANNEL



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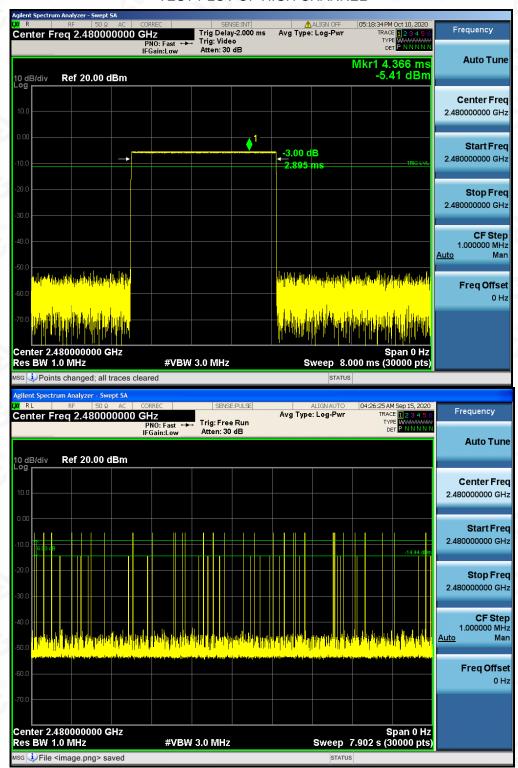
### TEST PLOT OF MIDDLE CHANNEL



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### TEST PLOT OF HIGH CHANNEL



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### 13. FREQUENCY SEPARATION

#### 13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Wide enough to capture the peaks of two adjacent channels.
- 2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3. Video (or average) bandwidth (VBW) ≥ RBW.
- 4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

### 13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

#### 13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

### 13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
	MHz		Dana	
CH39-CH40	0.957	20 dB BW	Pass	

### TEST PLOT FOR FREQUENCY SEPARATION



Note: The GFSK modulation is the worst case and recorded in the report.

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# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

RADIATED EMISSION TEST SETUP BELOW 1GHz



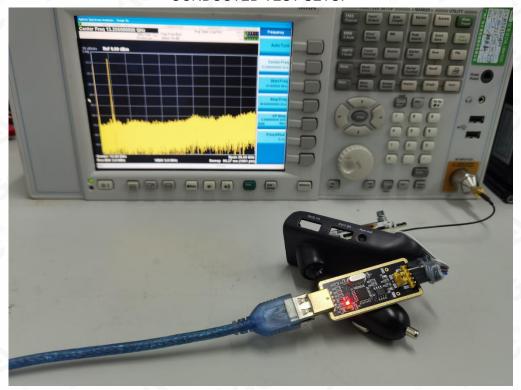
RADIATED EMISSION TEST SETUP ABOVE 1GHz



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# CONDUCTED TEST SETUP



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# APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



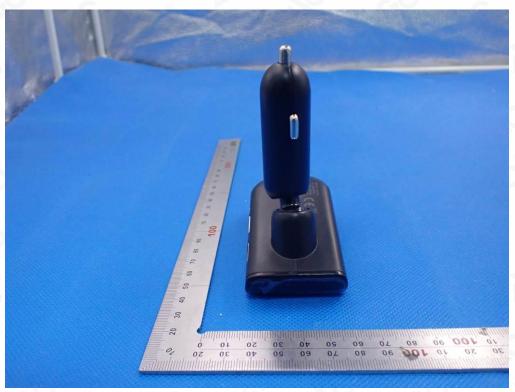
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# FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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# LEFT VIEW OF EUT



RIGHT VIEW OF EUT



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Residual Residual



# VIEW OF EUT(PORT)-1



VIEW OF EUT(PORT)-2



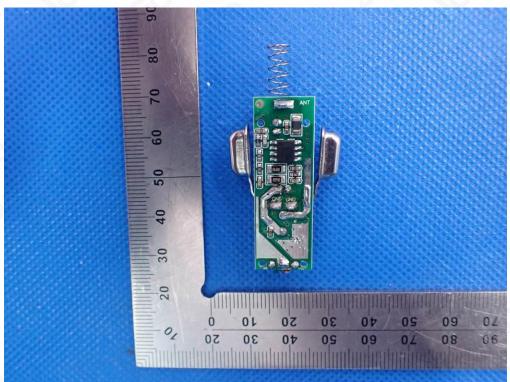
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# **OPEN VIEW OF EUT**



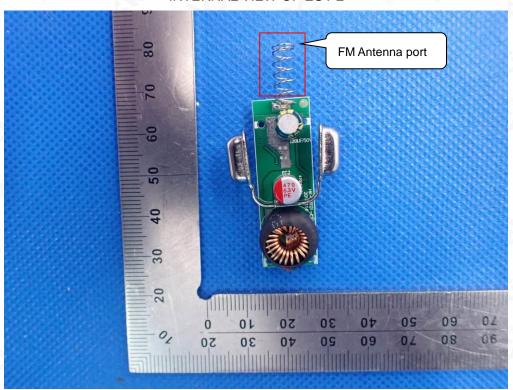
## **INTERNAL VIEW OF EUT-1**



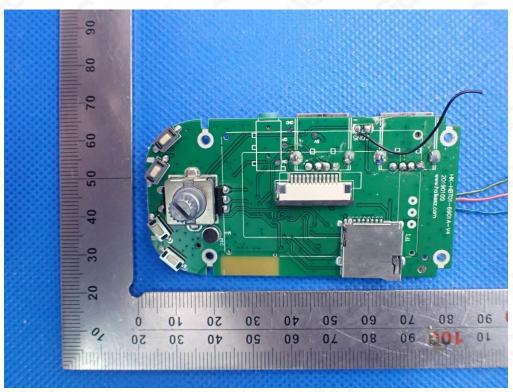
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# **INTERNAL VIEW OF EUT-2**



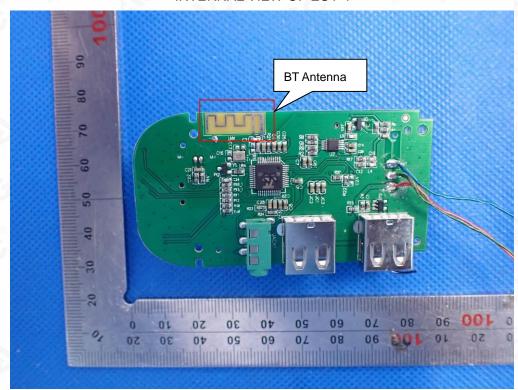
**INTERNAL VIEW OF EUT-3** 



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# **INTERNAL VIEW OF EUT-4**



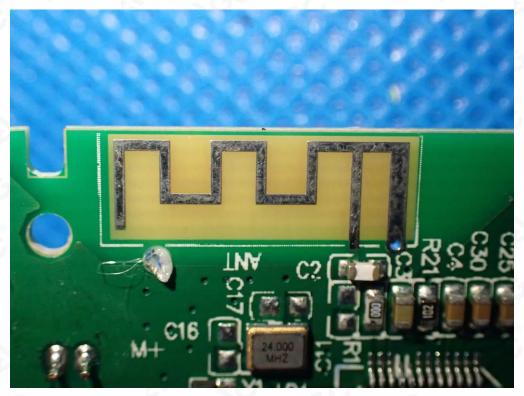
## **INTERNAL VIEW OF EUT-5**



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# **INTERNAL VIEW OF EUT-6**



----END OF REPORT----

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#### Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

he test report.

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