



EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

		100				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.022	49.91	0.22	50.13	74.00	-23.87	peak
4960.022	45.15	0.22	45.37	54.00	-8.63	AVG
7440.033	47.34	2.64	49.98	74.00	-24.02	peak
7440.033	39.23	2.64	41.87	54.00	-12.13	AVG
@		_ ((e)		
	0				8	
Remark:	- Ci	3		×0°	-0	0
actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		10	- C

EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Value Type
4960.022	47.63	0.22	47.85	74.00	-26.15	peak
4960.022	44.44	0.22	44.66	54.00	-9.34	AVG
7440.033	45.08	2.64	47.72	74.00	-26.28	peak
7440.033	37.31	2.64	39.95	54.00	-14.05	AVG
	10	60	<u> </u>			
emark:	(8)		100	. C.	0	
actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.	9	G	

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. 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 GFSK modulation is the worst case and recorded in the report.



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

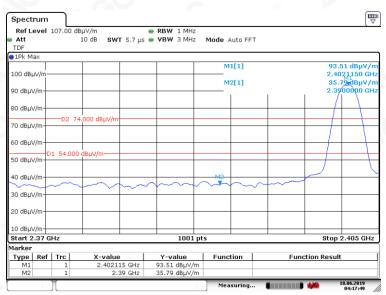
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

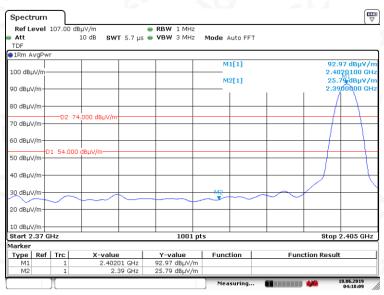


TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK





RESULT: PASS



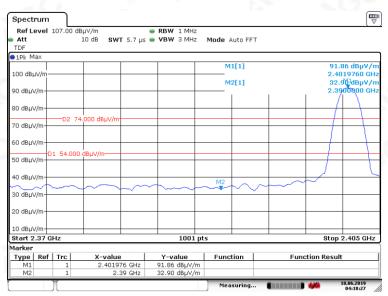
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



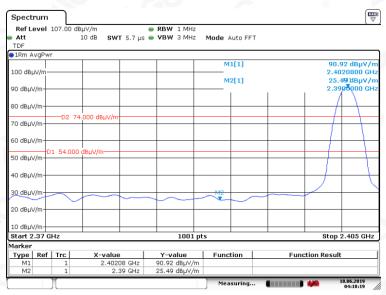
EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



Date: 18.JUN.2019 04:18:28

ΑV



RESULT: PASS



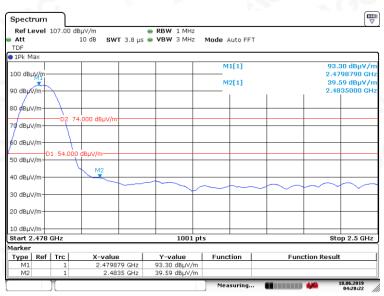
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

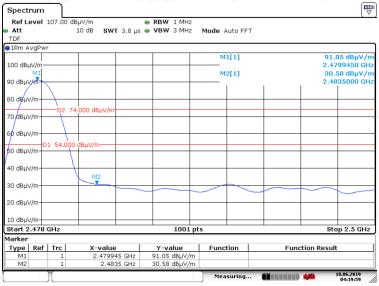


EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



ΑV



RESULT: PASS



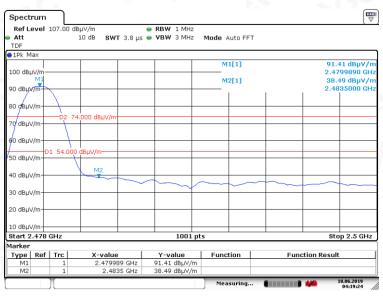
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

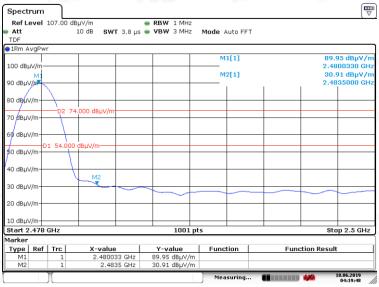


EUT	BLUETOOTH HEADPHONES	Model Name	IBT-19
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





ΑV



Date: 18.JUN.2019 04:19:49

RESULT: PASS

Note: 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. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

E-mail:agc@agc-cert.com Service Hotline: 400 089 2118



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

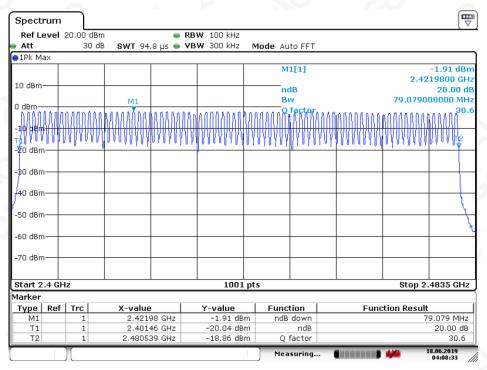
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

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

TEST PLOT FOR NO. OF TOTAL CHANNELS



Date: 18.JUN.2019 04:08:33

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



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China



Report No.: AGC02182190601FE03

Page 51 of 65

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) × (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	2.910	27*4	314.280	400
Middle	2.930	27*4	316.440	400
High	2.920	27*4	315.360	400

Note: The 8-DPSK modulation is the worst case and recorded in the report.



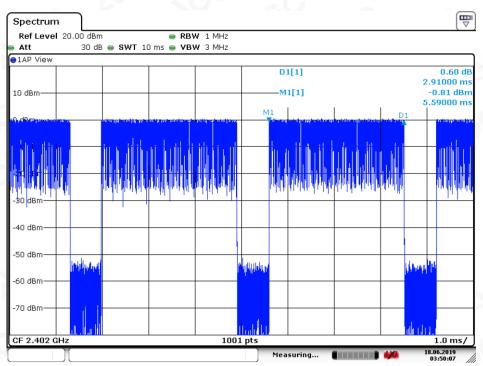
 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

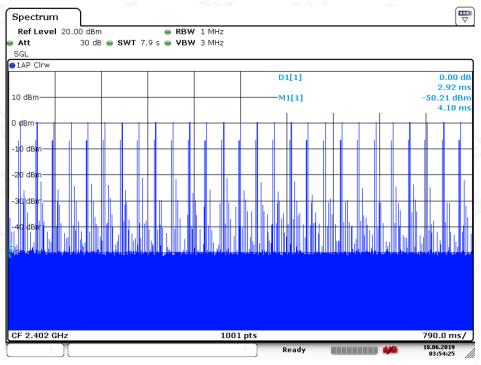
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China



TEST PLOT OF LOW CHANNEL





Date: 18.JUN.2019 03:54:25

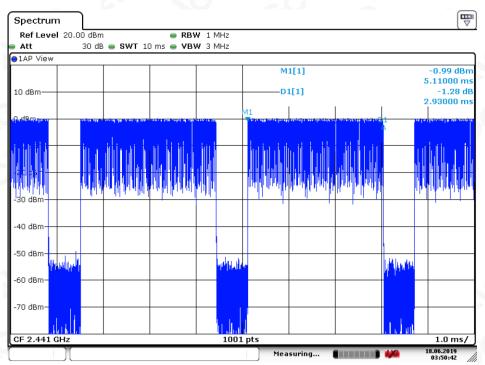


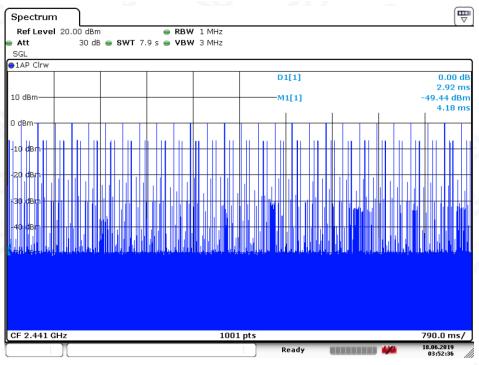
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



TEST PLOT OF MIDDLE CHANNEL





Date: 18.JUN.2019 03:52:37

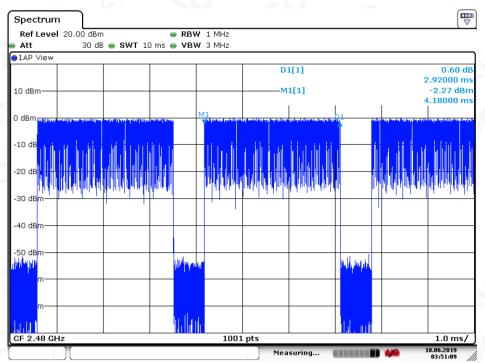


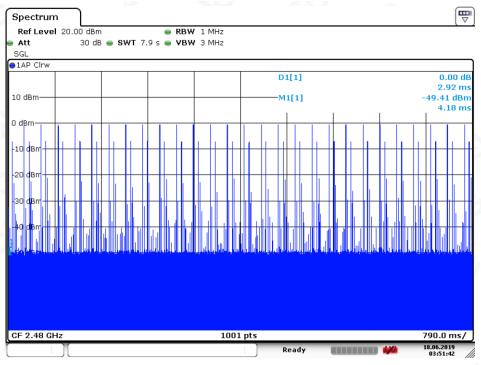
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



TEST PLOT OF HIGH CHANNEL





Date: 18.JUN.2019 03:51:41



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



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

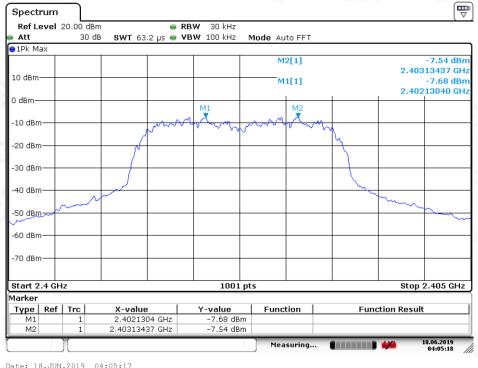
13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	S C Pass
CH01-CH02	1003.97	>=25 KHz or 2/3 20 dB BW	Pass

TEST PLOT FOR FREQUENCY SEPARATION



Date: 18.JUN.2019 04:05:17

Note: The 8-DPSK modulation is the worst case and recorded in the report.



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

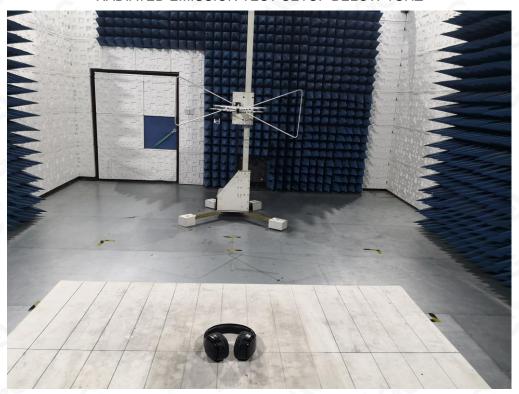
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China

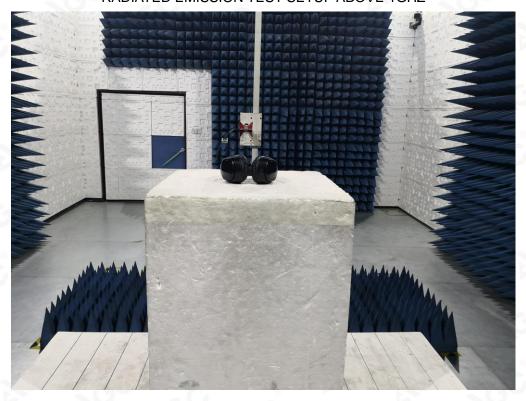


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ

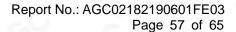


RADIATED EMISSION TEST SETUP ABOVE 1GHZ





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$





APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com



FRONT VIEW OF EUT



BACK VIEW OF EUT





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$



LEFT VIEW OF EUT



RIGHT VIEW OF EUT





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com



OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$



OPEN VIEW OF EUT-3



OPEN VIEW OF EUT-4





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

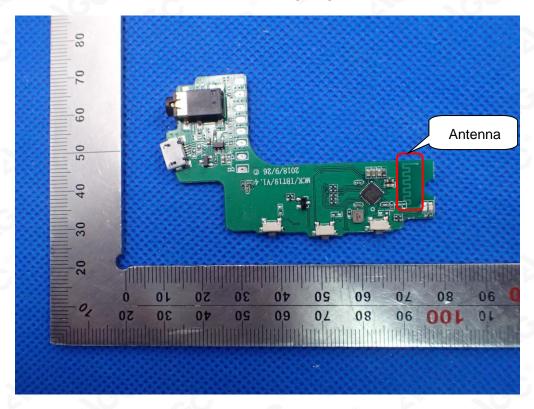
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



BATTERY VIEW OF EUT



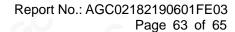
INTERNAL VIEW OF EUT-1





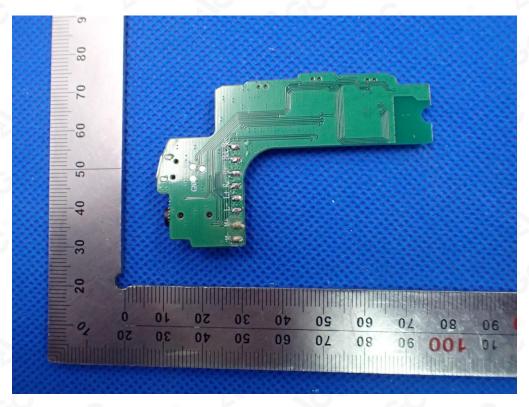
 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

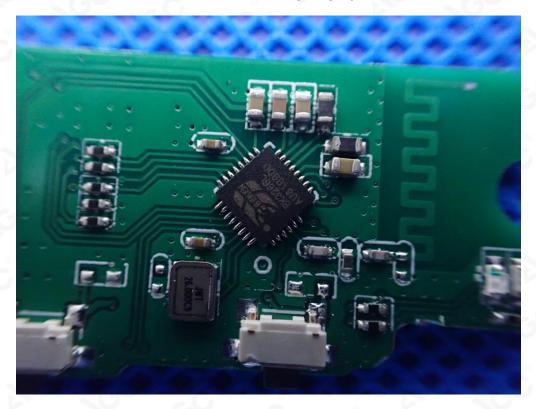




INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3





 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$



INTERNAL VIEW OF EUT-4

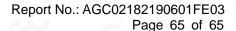


----END OF REPORT----



 $Attestation\ of\ Global\ Compliance (Shenzhen) Co., Ltd.$

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,





Statement

- 1. This report is invalid without the special seal for report of AGC and the signatures of approver.
- 2. This report is invalid if it is blotted out and deleted.
- 3. If the applicant has any questions about results, shall submit to AGC within 15 days.
- 4. This report is responsible for the sample provided by the client only.
- 5. This report shall not be reproduced except in full, or extracted without the written approval of AGC.
- 6. This report photocopy is invalid without the red chop.



Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

E-mail: agc@agc-cert.com Service Hotline: 400 089 2118