

FCC Test Report

Report No.: AGC01110200738FE02

FCC ID	©. •	2AOKB-A3117
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Soundcore 3
BRAND NAME		Soundcore
MODEL NAME	÷	A3117
APPLICANT	:	Anker Innovations Limited
DATE OF ISSUE	© •	Aug. 11, 2020
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Aug. 11, 2020	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Manufacturer	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Factory	Anam Electronics Vietnam CO., Ltd	
Address	Dong Van IV industrial zone, Dai Cuong commune, Kim Bang district, Ha Nam province, Vietnam	
Product Designation	Soundcore 3	
Brand Name	Soundcore	
Test Model	A3117	
Date of test	July 24, 2020 to Aug. 11, 2020	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BLE/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

John Zerry

John Zeng Project Engineer

Aug. 11, 2020

Max Zhans

Reviewed By

Max Zhang Reviewer

Aug. 11, 2020

Approved By

fores

Forrest Lei Authorized Officer

Aug. 11, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Soundcore 3". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402GHz to 2.480GHz
RF Output Power	5.451dBm(Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps
Number of channels	40 Channels
Antenna Designation	Monopole Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	2.62dBi
Hardware Version	V1.0
Software Version	V0.1.6
Power Supply	DC 7.2V by battery or DC 5V by adapter

2.2.TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2404MHZ
2400~2483.5MHZ		G C C
	38	2478 MHZ
	39	2480 MHZ

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AOKB-A3117** filing to comply with the FCC Part 15.247 requirements.

2.4.TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 2.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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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 = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel TX	
2	Middle channel TX	
3	High channel TX	

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

- 2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Actions BT FCC Tool	1 V2.23	? ×	
SOLUTION ATS283X - COM COM4	- 115200 -	BQB Mode	0
RF Channel 38	Hopping Mode	Wormal_F fixed	
Packet Type BLE_1M 👻	Payloa	ad Type PRESS	
TX Gain Index 2		Index 0	
Access Code Ox 88888888		C Mode	- C
Stop Single Tome	Packet IX Packet RX	Hopping TX	
1結果ContinueIX網试, 持续45.6秒 1开始ContinueIX测试(Chan:AFH Packet 1結束ContinueIX测试, 持续42.0秒 1开始ContinueIX测试(Chan:0 Packet:D			-,Č
1结束ContinueTX测试, 持续197.3秒 1开始ContinueTX测试(Chan:78 Packet:			
1结束ContinueTX测试,持续230.4秒 1开始ContinueTX测试(Chan:38 Packet: 1结束ContinueTX测试,持续0.5秒	BLE_IM Payload PRBS9 TxGain	3)	

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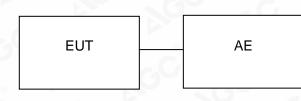
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



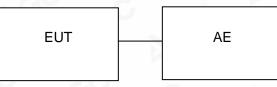
5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Soundcore 3	A3117	2AOKB-A3117	EUT
2	Control Box	N/A	USB-TTL	AE
3	Adapter	XCMS03-0510	DC 5V	AE
4	Type-C Cable	N/A	0.6m unshielded	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA	

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBEC K	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBEC K	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

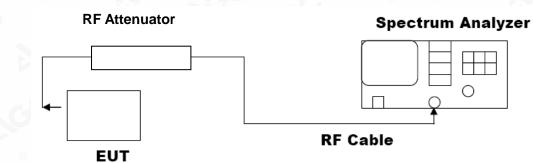
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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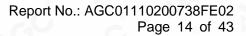
7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION								
Frequency (GHz)	Frequency Peak Power Applicable Limits							
2.402	4.394	30	Pass					
2.440	4.753	30	Pass					
2.480	5.451	30	Pass					

CH0

	pectrum Analyzer - Swi						
XI RL	RF 50 Ω Freq 2.40200			SENSE:INT	ALIGN AU Avg Type: Log-P		Frequency
Center	-req 2.40200		PNO: Fast ++	Trig: Free Run Atten: 30 dB	Avg Hold: 100/100		4
			IFGain:Low	Atten: 30 dB	NAL	r1 2.402 175 GHz	Auto Turr
10 dB/div	Ref 20.00 c	1Bm				4.394 dBm	
	1(01 20.00 0						
							Center Free
10.0				1			2.402000000 GH
0.00							
0.00							Start Free
-10.0							2.399500000 GH:
	and the second se						
-20.0							Stop Free
ľ							2.404500000 GH
-30.0							
-40.0							CF Step
-40.0							500.000 kH <u>Auto</u> Ma
-50.0							Auto
							Erog Offoo
-60.0							Freq Offse
							UT I
-70.0							
	.402000 GHz					Span 5.000 MHz	
	/ 1.5 MHz		#VBW	5.0 MHz		1.000 ms (1001 pts)	
MSG					ST	ATUS	

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CH19

CH39

🎉 Keysight Spectrum Analyzer - Swept					
X RL RF 50 Ω Center Freq 2.480000	AC CORREC 000 GHz PNO: Fast ↔→→	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:19:53 PM Jul 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
10 dB/div Ref 20.00 dB	IFGain:Low	Atten: 30 dB	Mkr1	2.480 175 GHz 5.451 dBm	Auto Tune
10.0		1			Center Fre 2.480000000 GH
.10.0					Start Fre 2.477500000 GH
-20.0					Stop Fre 2.482500000 GH
40.0					CF Ste 500.000 kH <u>Auto</u> Ma
60.0					Freq Offse 0 H
-70.0 Center 2.480000 GHz				Span 5.000 MHz	
#Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
			UNITED STATES		

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT								
Annicable Limite	Applicable Limits							
Applicable Limits	Test Data	Criteria						
Solution of the second se	Low Channel	706.5	PASS					
>500KHZ	Middle Channel	707.2	PASS					
	High Channel	708.5	PASS					

08:13:32 PM Jul 31, 2020 Radio Std: None Center Freq: 2.40200000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency 102000000 GHz Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Ref 20.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 100 kHz Span 3 MHz CF Step #VBW 300 kHz Sweep 1 ms 300.000 kH Auto Ma **Total Power** 10.8 dBm **Occupied Bandwidth** 1.0336 MHz Freq Offset 0 H; Transmit Freq Error 195 Hz **OBW Power** 99.00 % x dB Bandwidth 706.5 kHz x dB -6.00 dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

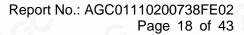
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT									
Applicable Limite	Measurement Result								
Applicable Limits	Test Data	Criteria							
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS							

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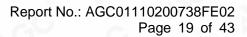






TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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	t Spectru		lyzer - Sw												- F
Center	Erec	RF	50 Ω				SEI	NSE:INT	Avg		LIGN AUTO		M Jul 31, 2020	6	Frequency
Contor	1100	y ie		0000	PNO: Fa		Trig: Free Atten: 30			Hold:		TY	PE MWWWW	₩ N	
		_			IFGalli.Lu	W	Atten. v				Mkr	1 24.80			Auto Tune
10 dB/di	0	of 2	20.00	dBm							WIN	-47.5	24 dBm		
			.0.00												
10.0															Center Freq
0.00															13.741750000 GHz
-10.0													-16.81 dBr		
-20.0															Start Freq
-30.0															2.483500000 GHz
-40.0															
-50.0										لغاموها	And the second second		and the state	1	01 E
-60.0 <mark> 18</mark>					and a later							and the second second			Stop Freq 25.00000000 GHz
-70.0	144 Vie				the case of the										25.00000000 GH2
	10.0											0 4 0	5 00 0 11-		
Start 2. #Res B			7		#	VBW	300 kHz				Sween	Stop 2 2.152 s (3	5.00 GHz	Ϋ́,	CF Step 2.251650000 GHz
MKR MODE			12	×			Y Y		ICTION					4	Auto Man
MKR MODE		f		× 24	.801 8 GHz	2	-47.524 di		CHON	FUN	CTION WIDTH	FUNCT	ON VALUE		
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5 6															
7															
9															
10															
•							m						- F		
MSG											STATUS	5			

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Keysight Spectrum Analyzer - KI RL RF 50		SENSE:INT	ALIGN AUTO	08:18:06 PM Jul 31, 2020	
Center Freq 2.440			Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide •	→→ Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	TYPE M WWWWWW DET P N N N N N	
	IFGain:Low		Minto		Auto Tune
			MKF1 2.	440 245 8 GHz 3.690 dBm	
10 dB/div Ref 20.00	0 dBm			3.690 UBIII	
10.0			<u>_</u> 1		Center Freq
0.00					2.440000000 GHz
-10.0					
-20.0					Start Freq
-30.0					2.438500000 GHz
-40.0				and the second s	
-50.0					Stop Freq
-60.0					2.441500000 GHz
-70.0					2.441000000 0112
				0	
Center 2.440000 GH #Res BW 100 kHz		W 300 kHz	Sween 2.0	Span 3.000 MHz 00 ms (30000 pts)	CF Step 300.000 kHz
		AF 000 KHZ			Auto Man
MKR MODE TRC SCL	× 2.440 245 8 GHz	Y 3.690 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
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3 4					Freq Offset 0 Hz
5				=	0 H2
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8					
10					
11					
MSG			STATUS		
MBG			514105		
💓 Keysight Spectrum Analyzer - 🛛					
Center Freq 1.215		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	08:18:15 PM Jul 31, 2020 TRACE 1 2 3 4 5 6	Frequency
Conter Freq 1.215	PNO: Fast	Trig: Free Run	Avg Hold: 10/10	TYPE MWWWWW DET P N N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tune
			Mkr	1 2.247 92 GHz	
10 dB/div Ref 20.00	0 dBm			-53.926 dBm	
10.0					
0.00					Center Fred
-10.0					
-10.0				-16,31 dBm	
-20.0				-15.31 dBm	1.215000000 GHz Start Freq
-20.0				-15.31 dBm	1.215000000 GHz Start Freq
-20.0 -30.0 -40.0				-16.31 dēm	1.215000000 GHz Start Freq
-20.0				16.31 dBm	1.215000000 GHz Start Freq 30.000000 MHz
-200 -300 -400 -500				16.31 dBm	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq
-200 -300 -400 -500				16.31.dBm	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq
-20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -70.0					1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
-20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 30 MHz	فنظاف فاسلم ببناه الخلاص والاتها والمغامة	an a	Sween - 22	1 Stop 2.400 GHz	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step
-20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 30 MHz #Res BW 100 kHz	#VB			1 Stop 2.400 GHz 8.0 ms (30000 pts)	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step
-20.0 -30.0 -40.0 -50.0 -70.0 Start 30 MHz #Res BW 100 kHz MKR MODE TRCI SCL	#VB	W 300 kHz	Sweep 22: FUNCTION FUNCTION WIDTH	1 Stop 2.400 GHz	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
20.0 30.0 40.0 50.0 50.0 50.0 50.0 50.0 50.0 5	#VB	an a		1 Stop 2.400 GHz 8.0 ms (30000 pts)	1.21500000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz 237.000000 MHz Auto Man
-20.0 -30.0 -40.0 -50.0	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts)	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man Freq Offset
-20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -60.0 Start 30 MHz #Res BW 100 kHz MKR MODE TRC SCL - 1 N 1 F 2 3 4 5 5	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts)	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz <u>Auto</u> Man Freq Offset
20.0 30.0 40.0 50.0 50.0 50.0 50.0 50.0 51.0 51.0 5	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz <u>Auto</u> Man Freq Offset
-20.0 -30.0 -40.0 -5	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz <u>Auto</u> Man Freq Offset
-20.0	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man Freq Offset
20.0 -30.0 -40.0 -50	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man Freq Offset
20.0 30.0 -40.0 -50.0 -50.0 -50.0 -50.0 Start 30 MHz #Res BW 100 kHz MKR MODE TRC SCL 1 N 1 F 2 3 4 5 6 6 7 8 9 9 10 	#VB	W 300 kHz		1 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	Center Freq 1.21500000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 237.000000 MHz Auto Man Freq Offset 0 Hz

GFSK MODULATION IN MIDDLE CHANNEL

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	ht Spect		nalyzer -																	×
Cente	r Ere	RF		Ω A				SEI	NSE:INT		Avg		LIGN AUTO Log-Pwr			4 Jul 31, 20		F	requency	
Conto		59			Р	NO: Fast Gain:Lov		Trig: Free Atten: 30			Avgit	Hold:	10/10		TYF	PE M WWW	www.			
10 dB/d Log	liv	Ref	20.00) dBr	n								Mk	r1 24	4.237 48.1	7 4 G 61 dE	Hz m		Auto Tu	ine
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-50.0										and been a la analas								25.00	Stop Fi 0000000 G	_
Start 2 #Res E	3W 1	00			X	#V	/BW :	300 kHz Y		FUNCT	TION		Sweep	2.152	2 s (3	5.00 G 0000 p DN VALUE		2.25 <u>Auto</u>	CF St 1650000 G N	
1 N 2 3 4 5 6 7 8 9 10 11		f			24.237	4 GHz		48.161 df	3m										Freq Off	set Hz
								III									•			
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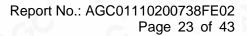
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

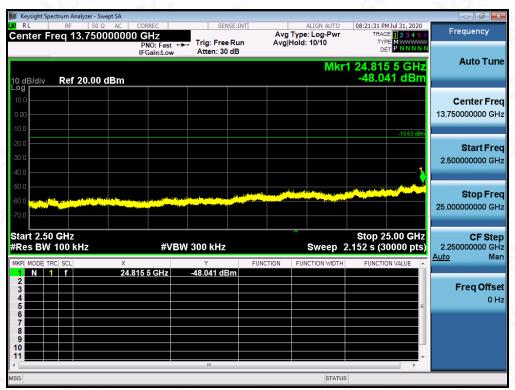


The second s					
Keysight Spectrum Analyzer - S	Ω AC CORREC	SENSE:INT	ALIGN AUTO	08:20:57 PM Jul 31, 2020	
Center Freq 2.4800	000000 GHz PNO: Wide ++	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
	IFGain:Low	Atten: 30 dB	Mired O	480 244 8 GHz	Auto Tune
10 dB/div Ref 20.00	dBm		IVIKI I Z	480 244 8 GHZ 4.371 dBm	
Log			1		
10.0			♥		Center Freq
0.00					2.480000000 GHz
-10.0					
-20.0					Start Freq
-40.0					2.478500000 GHz
-50.0					
-60.0					Stop Freq
-70.0					2.481500000 GHz
Contor 2 490000 Ol				Span 2 000 Mille	0.5.0
Center 2.480000 GH #Res BW 100 kHz		/ 300 kHz		Span 3.000 MHz 00 ms (30000 pts)	CF Step 300.000 kHz Auto Man
MKR MODE TRC SCL	× 2.480 244 8 GHz	Y F 4.371 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Man Wan
2	2.400 244 0 GHZ				Freq Offset
3					0 Hz
5 6				=	
7 8					
9					
MSG			i.		
			STATUS		
Keysight Spectrum Analyzer - S	went SA		STATUS		
Keysight Spectrum Analyzer - S	Ω AC CORREC	SENSE:INT	ALIGN AUTO	08:21:06 PM Jul 31, 2020	Frequency
	Ω AC CORREC 000000 GHz PNO: Fast ↔	Trig: Free Run		08:21:06 PM Jul 31, 2020	Frequency
LXI RL RF 50	Ω AC CORREC	Trim Free Day	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNNN	Frequency
Center Freq 1.2150	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 2 3 4 5 6 TYPE MUSANIN N DET PNNNN N 1 2.287 97 GHz	Frequency
00 RL RF 50 Center Freq 1.2150	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNNN	Frequency
OM RL RF 50 Center Freq 1.2150 10 B/div Ref 20.00 10 dB/div Ref 20.00 10.0 10.0	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 2 3 4 5 6 TYPE MUSANIN N DET PNNNN N 1 2.287 97 GHz	Frequency Auto Tune Center Freq
OM RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div Ref 20.00 0 00 000	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 2 3 4 5 6 TYPE MUSANIN N DET PNNNN N 1 2.287 97 GHz	Frequency Auto Tune Center Freq
OM RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10 0	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 2 3 4 5 6 TYPE MUSANIN N DET PNNNN N 1 2.287 97 GHz	Frequency Auto Tune Center Freq 1.21500000 GHz
OM RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 <thref 20.00<="" th=""> Ref 20.00 <th< td=""><td>Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low</td><td>Trig: Free Run</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10</td><td>08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm</td><td>Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq</td></th<></thref>	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
OM RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10 0	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
OM RE 50 Center Freq 1.215C 80 80 10 dB/div Ref 20.00 90 10 0 90 90 90 10 0 90 90 90 90 10 0 90 90 90 90 90 10 0 90	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz
OM RE SO Center Freq 1.215C 10 dB/div Ref 20.00 Log	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq
Od RE SO Center Freq 1.215C 10 dB/div Ref 20.00 Log	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 MKr	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq
OM RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10 dV Ref 20.00 <	Ω AC CORREC 000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 MKr	08:21:06 PM Jul 31, 2020 TRACE 12 2 3 4 5 6 TYPE M WWWW DET P NNNN N 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
Od RE SO Center Freq 1.215C 10 dB/div Ref 20.00 Log	Ω AC CORREC D00000 GHZ PNO: Fast → IFGain:Low D dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 112 3 4 5 6 TYPE WWWWW DET WINNIN 1 2.287 97 GHz -56.674 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
Od RF SO Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 Center Freq 1.2150 20.0 Center Freq 1.2150 -20.0 Center Freq 1.2150 -40.0 Center Freq1.2150	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 2 3 4 5 6 TYPE P NUMBER 0 ET P NUMBER 1 2.287 97 GHz -56.674 dBm -15.63 dBm -15.63 dBm -1 -15.63 dBm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
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Od RL RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 Log Ref 20.00 Ref 20.00 Start 30.0 Ref 20.00 Ref 20.00 Start 30 MHz Res BW 100 kHz Ref 20.00 MARR MODE TRCI SCL Ref 20.00 Ref 20.00 Ref 10.0 Ref 20.00 Ref 20.00	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TYPE M JUL 32, 2020 TYPE M JUL 32, 2020 TYPE M J	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man
Del RF SD Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 10 0 Center Freq 1.2150 20 0 Center Freq 1.2150 30 0 Center Freq 1.2150 40 0 Center Freq 1.2150 5 Center Freq 1.2150 10 0 Center Freq 1.2150 11 0 F 21 0 Center Freq 1.2150	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TRACE 12 2 3 4 5 6 TYPE M JUL 31, 2020 TYPE M JUL 32, 2020 TYPE M JUL 32, 2020 TYPE M J	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man
Od RE SD Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 10 0 Center Freq 1.2150 20 0 Center Freq 1.2150 20 0 Center Freq 1.2150 30 0 Center Freq 1.2150 4 0 Center Freq 1.2150 4 1 Center Freq 1.2150 4 5 Center Freq 1.2150 4 5 Center Freq 1.2150	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 3:4 5:6 TYPE P MININN 0 T 2:287 97 GHz -56.674 dBm -1563:dBg	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man
M RF SD Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 Log	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 3:4 5:6 TYPE P MININN 0 T 2:287 97 GHz -56.674 dBm -1563:dBg	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man
Od RE SD Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 Log	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 12 3:4 5:6 TYPE P MININN 0 T 2:287 97 GHz -56.674 dBm -1563:dBg	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz
Dd RF SD Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 Center Freq 1.2150 10 Center Freq 1.2150 10 Center Freq 1.2150	Ω AC CORREC 000000 GHz PNO: Fast PRO: Fast IFGain:Low 0 dBm 0 d	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	08:21:06 PM Jul 31, 2020 TRACE 1 2 3 4 5 C TYPE P NUNNN 1 2.287 97 GHz -56.674 dBm -15.63 dBm -15.6	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.400000000 GHz CF Step 237.000000 MHz Auto Man

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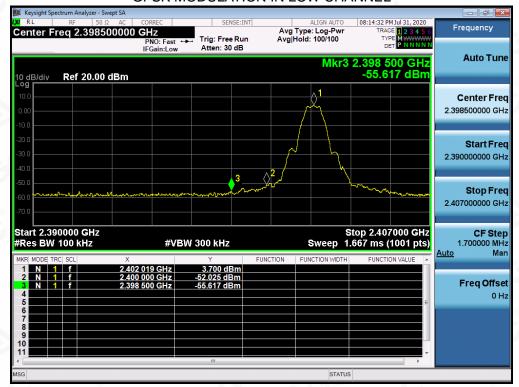




Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

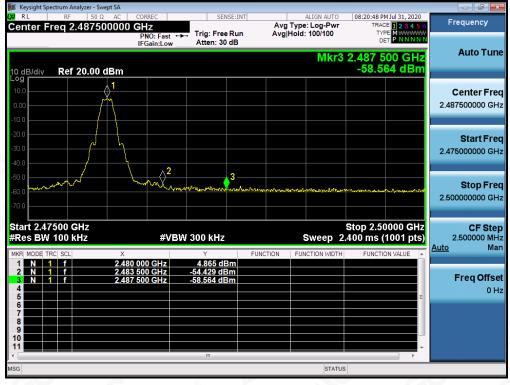
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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-11.089	8	Pass
Middle Channel	-10.725	8	Pass
High Channel	-9.881	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.480000000	CORREC SENSE:INT CHZ PNO: Wide →→→ Trig: Free Run IFGain:Low Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:20:25 PM Jul 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	Frequency
0 dB/div Ref 20.00 dBm	IFGalli:Low Attent of dB	Mkr1 2	.480 085 0 GHz -9.881 dBm	Auto Tune
10.0				Center Fre 2.480000000 GH
10.0	Man Man Man Market M	1 indentifier the second second		Start Fre 2.479468654 GH
20.0 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	un ann an ann ann ann ann ann ann ann an		an an Asalada II alan an a	Stop Fre 2.480531346 G⊦
40.0				CF Ste 106.269 kH <u>Auto</u> Ma
60.0				Freq Offs 0 ⊦
20.0 Center 2.4800000 GHz Res BW 3.0 kHz	#VBW 10 kHz		Span 1.063 MHz 12.1 ms (1001 pts)	

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

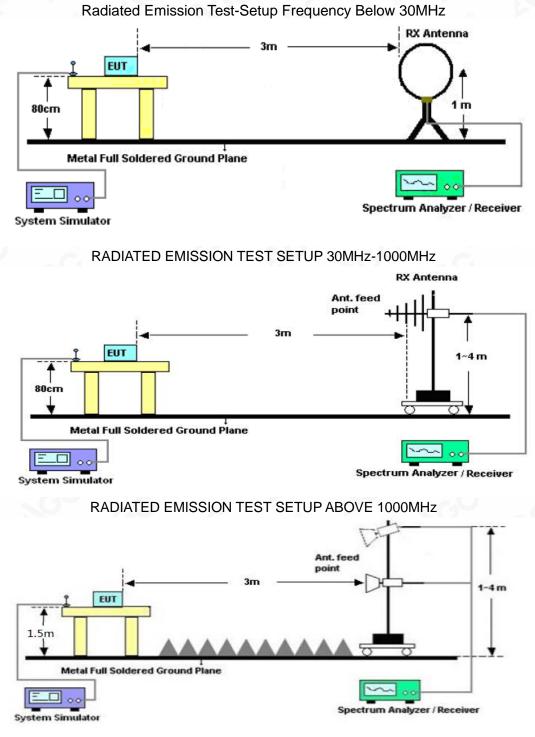
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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11.2. TEST SETUP



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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	3		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

Emissions are attenuated more than 20 dB below the permissible value.

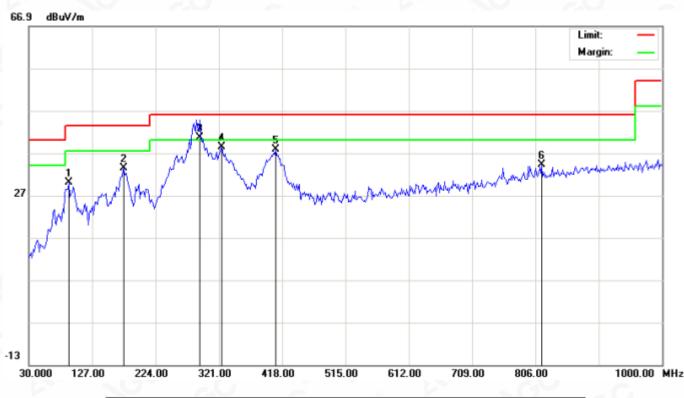
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RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
5	1		91.4333	14.82	15.13	29.95	43.50	-13.55	peak
	2		175.5000	15.74	17.59	33.33	43.50	-10.17	peak
C	3	*	291.9000	20.98	19.66	40.64	46.00	-5.36	QP
	4		325.8500	18.03	20.38	38.41	46.00	-7.59	peak
	5		408.3000	14.62	23.15	37.77	46.00	-8.23	peak
	6		815.7000	3.58	30.61	34.19	46.00	-11.81	peak

RESULT: PASS

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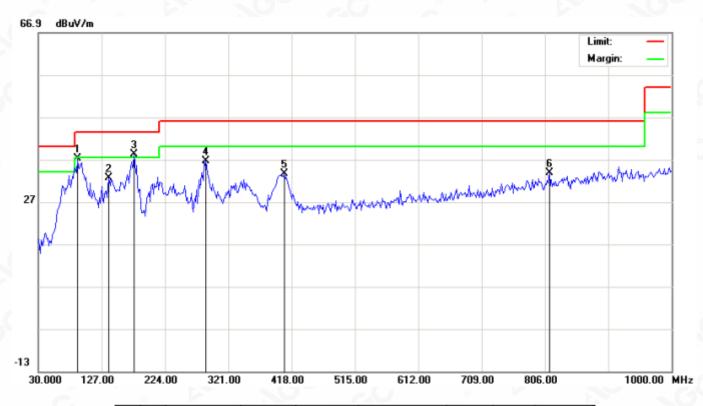
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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



c	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
	1		89.8167	22.24	14.98	37.22	43.50	-6.28	peak
9	2		138.3167	13.53	19.12	32.65	43.50	-10.85	peak
	3	*	177.1167	20.85	17.43	38.28	43.50	-5.22	peak
	4		287.0500	16.86	19.77	36.63	46.00	-9.37	peak
	5		406.6833	10.48	23.11	33.59	46.00	-12.41	peak
	6		812.4667	3.27	30.57	33.84	46.00	-12.16	peak

RESULT: PASS

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

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4804.000	45.27	0.08	45.35	74	-28.65	peak	
4804.000	34.51	0.08	34.59	54	-19.41	AVG	
7206.000	42.72	2.21	44.93	74	-29.07	peak	
7206.000	36.64	2.21	38.85	54	-15.15	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Malua Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	45.97	0.08	46.05	74	-27.95	peak
4804.000	35.52	80.0	35.6	54	-18.4	AVG
7206.000	43.57	2.21	45.78	74	-28.22	peak
7206.000	37.47	2.21	39.68	54	-14.32	AVG
Remark:						ļ
	na Factor + Cab		molifion			
AUU = AUP	$ A = A \cup 0 + \cup A \cup$	$P_{1}U_{2}S = P_{1}P_{-}A$				

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EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4880.000	46.31	0.14	46.45	74	-27.55	peak	
4880.000	35.19	0.14	35.33	54	-18.67	AVG	
7320.000	44.28	2.36	46.64	74	-27.36	peak	
7320.000	37.49	2.36	39.85	54	-14.15	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tures
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	47.78	0.14	47.92	74	-26.08	peak
4880.000	37.37	0.14	37.51	54	-16.49	AVG
7320.000	45.81	2.36	48.17	74	-25.83	peak
7320.000	34.68	2.36	37.04	54	-16.96	AVG
Remark:						•
Eactor = Anter	na Factor + Cab	le loss Dre a	molifier			

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EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	46.11	0.22	46.33	74	-27.67	peak
4960.000	36.84	0.22	37.06	54	-16.94	AVG
7440.000	43.79	2.64	46.43	74	-27.57	peak
7440.000	35.63	2.64	38.27	54	-15.73	AVG
Remark:					•	
Factor = Anten	ina Factor + Cab	le Loss – Pre-a	mplifier.			

EUT	Soundcore 3	Model Name	A3117
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
4960.000	47.96	0.22	48.18	74	-25.82	peak
4960.000	38.23	0.22	38.45	54	-15.55	AVG
7440.000	45.75	2.64	48.39	74	-25.61	peak
7440.000	35.57	2.64	38.21	54	-15.79	AVG
Remark:						
Factor = Anter	nna Factor + Cab	le Loss – Pre-a	mplifier.			

RESULT: PASS

Note: Other emissions are attenuated more than 20 dB below the permissible value.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

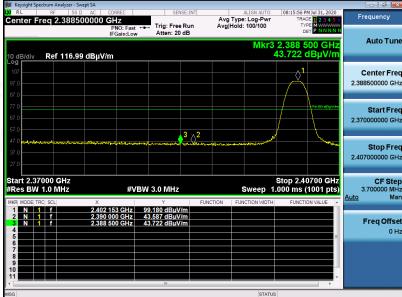
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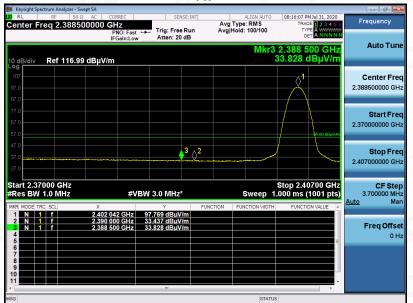
EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

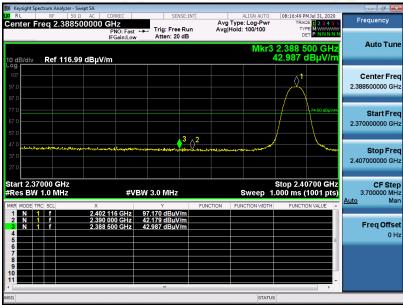
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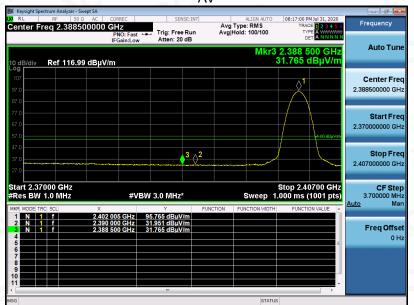


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EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
	PK		



AV



RESULT: PASS

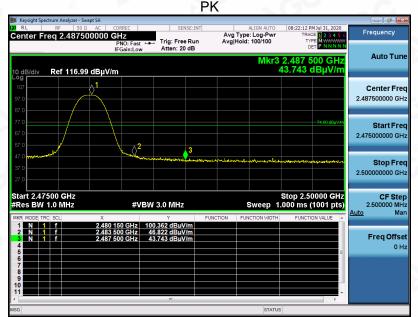
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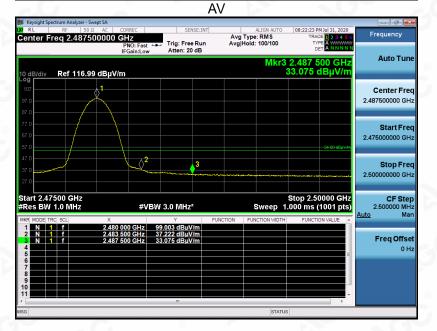
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EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	DI		





RESULT: PASS

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Start Fre 2.47500000 GH

Stop Fre

CF Stej 2.500000 MH

Freq Offse

Stop 2.50000 GHz 1.000 ms (1001 pts)

EUT	Soundcore 3	Model Name	A3117
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
	DI		



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.

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#VBW 3.0 MHz*

2.47500 GHz BW 1.0 MHz

12. FCC LINE CONDUCTED EMISSION TEST

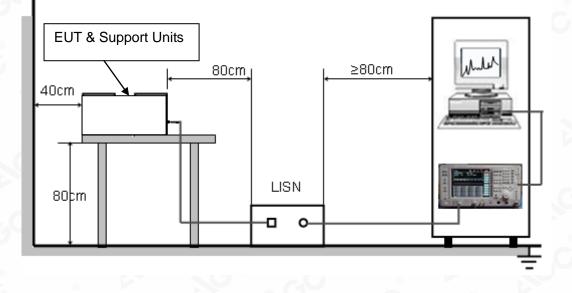
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from control board which received AC120V/60Hz power from 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.

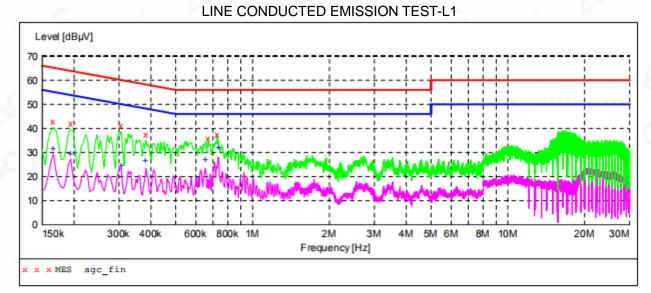
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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.
- 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

MEASUREMENT RESULT: "agc fin"

2020/7/29 9:44 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.166000 0.194000 0.306000 0.382000 0.670000 0.726000	43.00 42.00 41.00 37.50 35.60 37.30	9.3 9.3 9.3 9.3 9.3 9.3	65 64 58 56 56	22.2 21.9 19.1 20.7 20.4 18.7	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

MEASUREMENT RESULT: "agc fin2"

2020/7/29 9:44 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.166000	31.80	9.3	55	23.4	AV	L1	GND
0.194000	29.40	9.3	54	24.5	AV	L1	GND
0.306000	24.40	9.3	50	25.7	AV	L1	GND
0.382000	26.40	9.3	48	21.8	AV	L1	GND
0.654000	27.10	9.3	46	18.9	AV	L1	GND
0.734000	31.90	9.3	46	14.1	AV	L1	GND

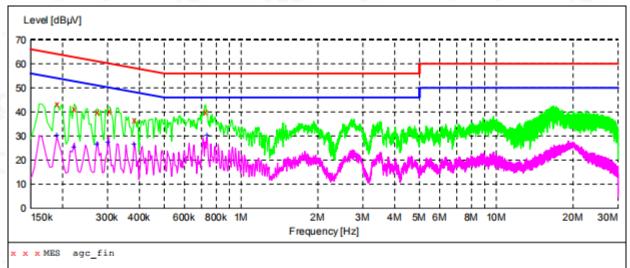
RESULT: PASS

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc fin"

2020/7/29 9:40 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000 0.222000 0.274000 0.306000 0.382000 0.726000	43.10 41.00 39.90 40.30 36.40 40.10	9.3 9.3 9.3 9.3 9.3 9.3	64 63 61 58 56	20.9 21.7 21.1 19.8 21.8 15.9	QP QP QP QP QP QP QP	N N N N N	GND GND GND GND GND GND

MEASUREMENT RESULT: "agc_fin2"

2020/7/29 9:40							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.190000	30.20	9.3	54	23.8	AV	N	GND
0.222000	25.30	9.3	53	27.4	AV	N	GND
0.274000	26.40	9.3	51	24.6	AV	N	GND
0.302000	27.40	9.3	50	22.8	AV	N	GND
0.382000	26.40	9.3	48	21.8	AV	N	GND
0.734000	30.40	9.3	46	15.6	AV	N	GND

RESULT: PASS

Note: All the test modes had been tested, the mode 3 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110200738AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01110200738AP01

----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.

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