

# **FCC Test Report**

Report No.: AGC01110200102FE02

**FCC ID** : 2AOKB-A3395

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Soundcore Rave Neo, Soundcore Trance Go

BRAND NAME : Soundcore

**MODEL NAME** : A3395, A3396

**APPLICANT** : Anker Innovations Limited

**DATE OF ISSUE** : Mar. 06, 2020

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION**: V1.0

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Page 2 of 54

#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9/	Mar. 06, 2020	Valid	Initial Release





#### **TABLE OF CONTENTS**

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	10
5.1 CONFIGURATION OF TESTED SYSTEM	10
6. TEST FACILITY	
7. PEAK OUTPUT POWER	
7.1. MEASUREMENT PROCEDURE	12
8. 6 DB BANDWIDTH	15
8.1. MEASUREMENT PROCEDURE	17
9. CONDUCTED SPURIOUS EMISSION	19
9.1. MEASUREMENT PROCEDURE  9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)  9.3. MEASUREMENT EQUIPMENT USED  9.4. LIMITS AND MEASUREMENT RESULT	21 21 21
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	
10.1. MEASUREMENT PROCEDURE	30 30
11. RADIATED EMISSION	32





Report No.: AGC01110200102FE02 Page 4 of 54

11.1. MEASUREMENT PROCEDURE	34
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT	36
11.4. TEST RESULT	36
12. FCC LINE CONDUCTED EMISSION TEST	46
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	50
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	51
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	51
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	52
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	54
APPENDIX B: PHOTOGRAPHS OF EUT	54



Page 5 of 54

#### 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	GANZHOU DEHUIDA TECHNOLOGY CO., LTD	
Address	Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China.	
Product Designation	Soundcore Rave Neo, Soundcore Trance Go	
Brand Name	Soundcore	
Test Model	A3395, A3396	
Difference description	All the same except for the light(A3395 has light, A3396 does not)	
Date of test	Jan. 10, 2020 to Jan. 19, 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	
NGC V	John Zeng Project Engineer	Jan. 19, 2020
Reviewed By	Max Zhang	
, No.	Max Zhang Reviewer	Mar. 06, 2020
Approved By	Formasticis	
	Forrest Lei Authorized Officer	Mar. 06, 2020

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Page 6 of 54

#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Soundcore Rave Neo, Soundcore Trance Neo". 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	2.402 GHz to 2.480GHz	
RF Output Power	7.460dBm(Max) for 1Mbps 7.444dBm(Max) for 2Mbps	
Bluetooth Version	V5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊠GFSK 1Mbps ⊠GFSK 2Mbps	
Number of channels	40 Channel	
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	2.53dBi	
Hardware Version	VA.0	
Software Version V1.3		
Power Supply DC 7.4V by battery or DC 5V by adapter		

#### 2.2.TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100	0	2402MHZ
	101 60	2404MHZ
2400~2483.5MHZ		
	38	2478 MHZ
C C	39	2480 MHZ



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Page 7 of 54

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

This submittal(s) (test report) is intended for **FCC ID:2AOKB-A3395** 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.





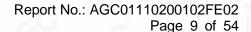
Page 8 of 54

#### 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,  $Uc = \pm 3.1 dB$
- 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,  $Uc = \pm 0.8dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %





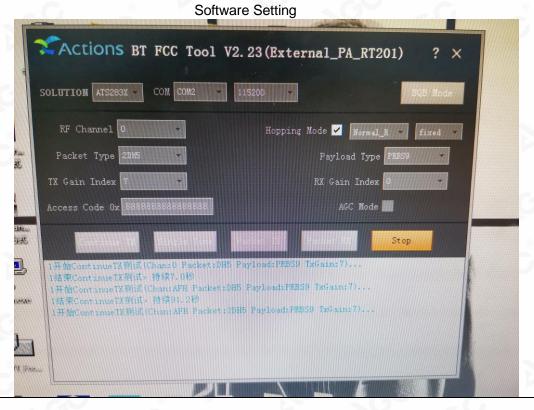


#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel TX 1Mbps	
2	Middle channel TX 1Mbps	
3	High channel TX 1Mbps	
4	Low channel TX 2Mbps	
5	Middle channel TX 2Mbps	
6	High channel TX 2Mbps	

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.





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Page 10 of 54

#### 5. SYSTEM TEST CONFIGURATION

#### **5.1 CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:

EUT		AE
	8	

#### Conducted Emission Configure:

FUT	۸۲
EUT	AE

#### **5.2. EQUIPMENT USED IN TESTED SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	Soundcore Rave Neo, Soundcore Trance Neo	A3395, A3396	2AOKB-A3395	EUT
2	Adapter	ZL-PCB0100020502000	DC 5V/2A	AE
3	Control Box	N/A	USB-TTL	AE
4	AUX in Cable	N/A	0.8m	AE
5	load	N/A	2ohm	AE
6	Mobile phone	TCL	J326T	AE
7	U disk	Kingston 100 G3	16GB	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	2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Ihai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	N1259			
FCC Test Firm Registration Number	75832			
A2LA Cert. No.	054.02			
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	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
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	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2018	May. 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



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Page 12 of 54

#### 7. PEAK OUTPUT POWER

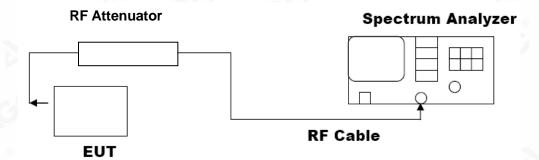
#### 7.1. MEASUREMENT PROCEDURE

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







Page 13 of 54

#### 7.3. LIMITS AND MEASUREMENT RESULT 1M

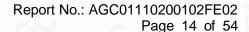
	PEAK OUTPUT POWER MEASU	REMENT RESULT	
	FOR GFSK MOUDUL	.ATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.308	30	Pass
2.440	7.419	30	Pass
2.480	7.460	30	Pass

CH<sub>0</sub>





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#### **CH39**





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Page 15 of 54

#### **2M**

	PEAK OUTPUT POWER MEA		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.308	30	Pass
2.440	7.413	30	Pass
2.480	7.444	30	Pass

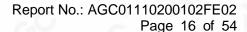
#### CH<sub>0</sub>





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#### **CH39**





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Page 17 of 54

#### 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 ≥ 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**

#### 1**M**

	LIMITS AND MEASUREMENT RESULT				
Applicable Limits					
Applicable Limits	Test Data	ı (kHz)	Criteria		
NO CO	Low Channel	707.9	PASS		
>500KHZ	Middle Channel	711.8	PASS		
	High Channel	705.3	PASS		

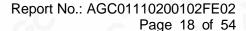
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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Page 19 of 54

#### 2M

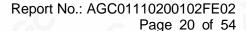
LIMITS AND MEASUREMENT RESULT				
Applicable Limits				
Applicable Limits	Test Data (kHz)		Criteria	
	Low Channel	1186	PASS	
>500KHZ	Middle Channel	1185	PASS	
	High Channel	1236	PASS	

#### 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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Page 21 of 54

#### 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.

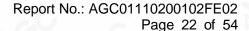
#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Annii ahia i inii	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







**TEST RESULT FOR ENTIRE FREQUENCY RANGE (1M)** 

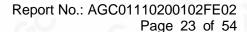
#### GFSK MODULATION IN LOW CHANNEL



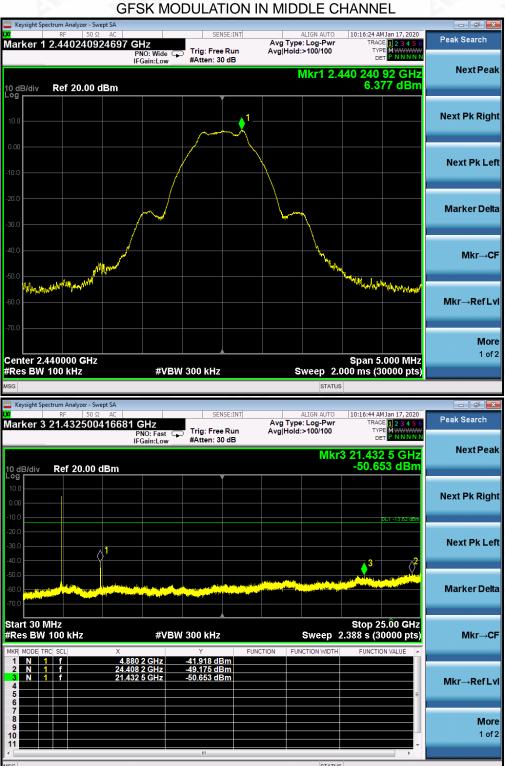


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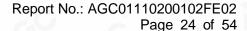




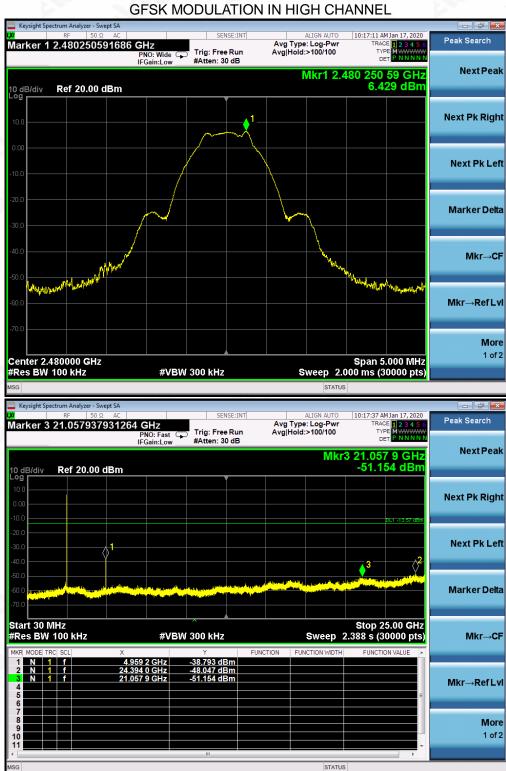
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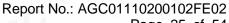
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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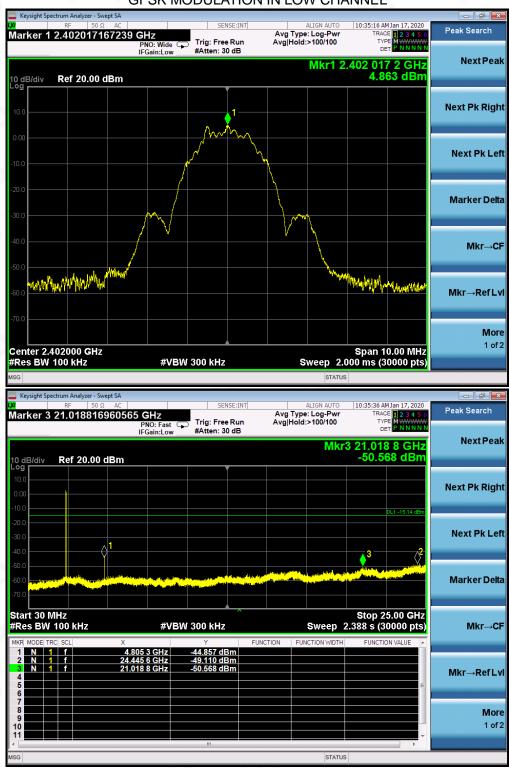




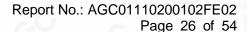
Page 25 of 54

#### **TEST RESULT FOR ENTIRE FREQUENCY RANGE (2M)**

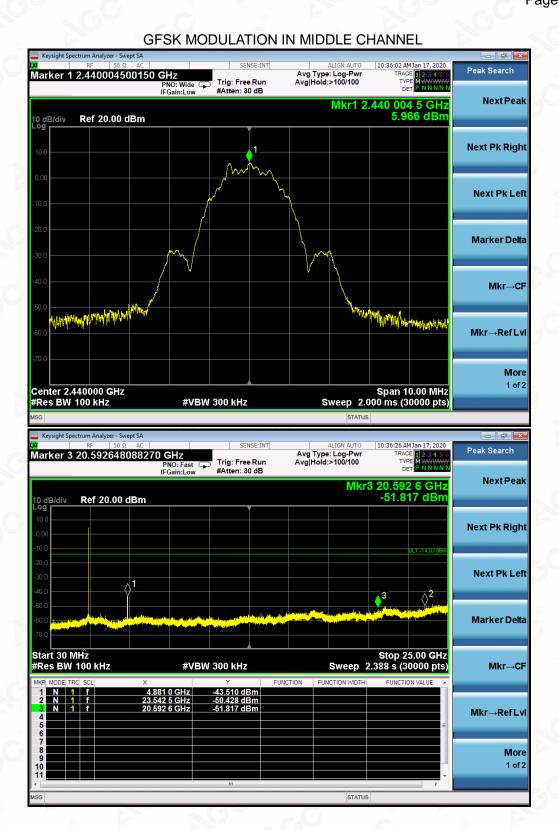
GFSK MODULATION IN LOW CHANNEL









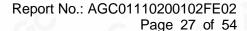




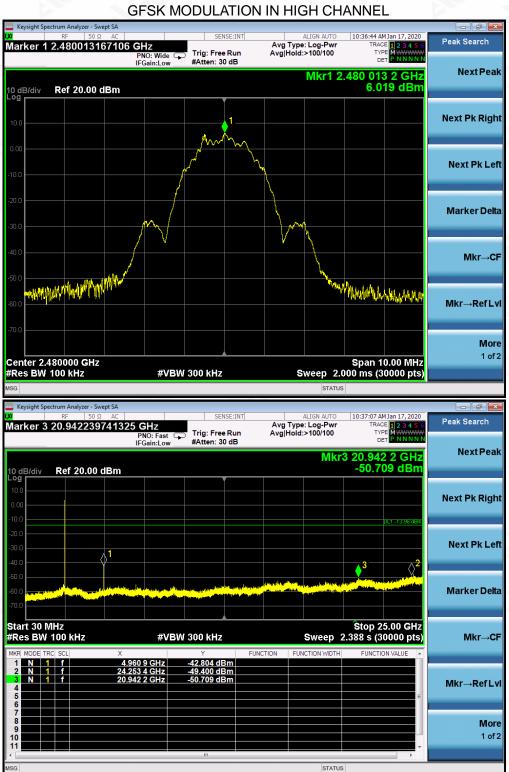
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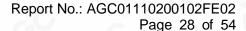
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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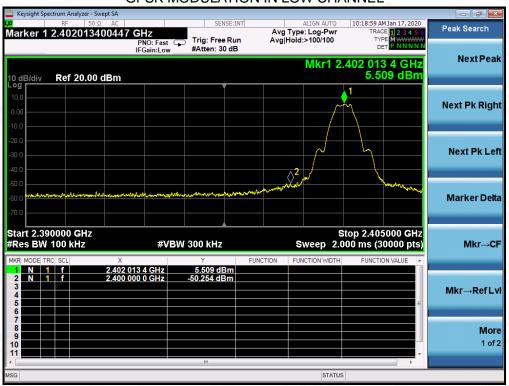
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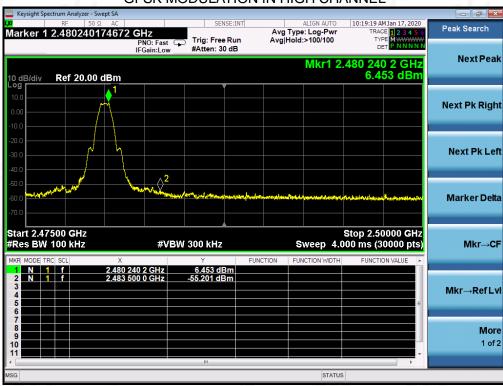


#### **TEST RESULT FOR BAND EDGE (1M)**

GFSK MODULATION IN LOW CHANNEL



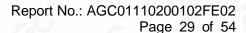
#### GFSK MODULATION IN HIGH CHANNEL



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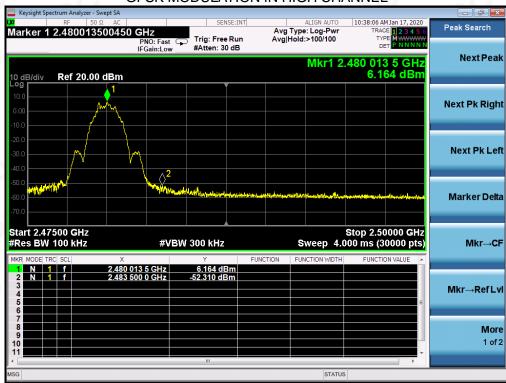


**TEST RESULT FOR BAND EDGE (2M)** 

### GFSK MODULATION IN LOW CHANNEL



#### GFSK MODULATION IN HIGH CHANNEL





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Page 30 of 54

#### 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.

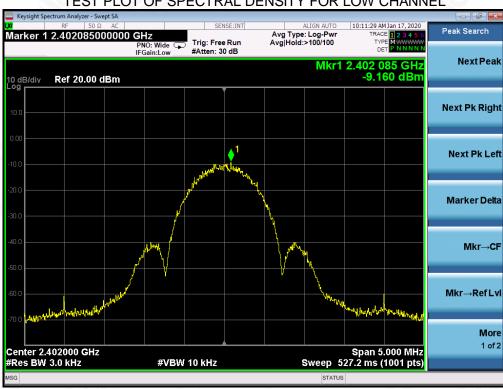
#### 10.3. MEASUREMENT EQUIPMENT USED

Refer To Section 6.

#### 10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-9.160	8	Pass
Middle Channel	-8.164	8	Pass
High Channel	-8.112	8	Pass

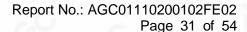
#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service Hotline: 400 089 2118

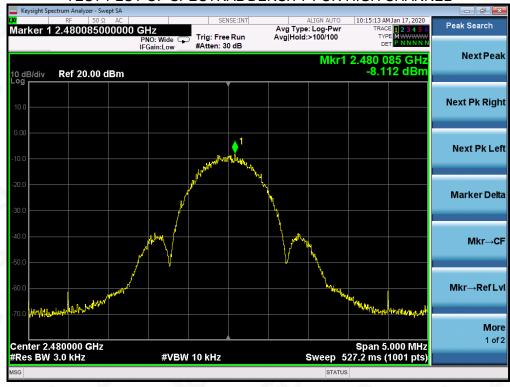




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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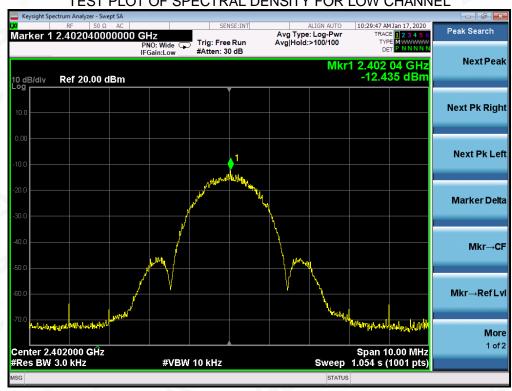


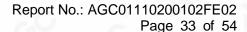
Page 32 of 54

#### **2M**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-12.435	8	Pass
Middle Channel	-11.267	8	Pass
High Channel	-11.167	8	Pass

#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



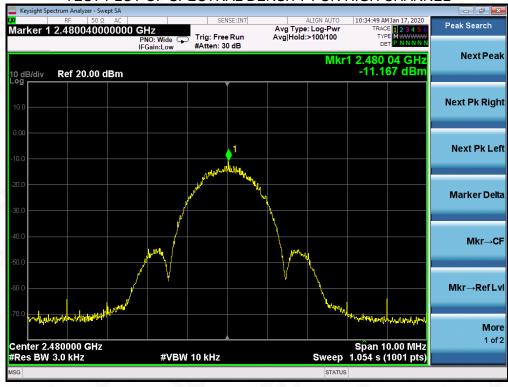




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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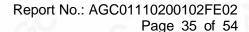
Page 34 of 54

#### 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.
- 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.

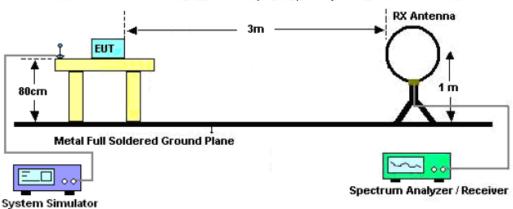




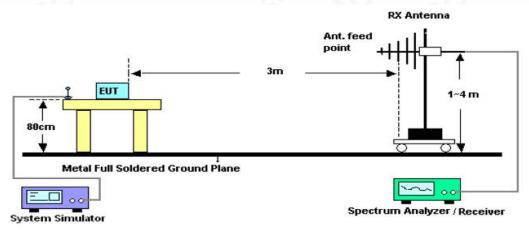


#### 11.2. TEST SETUP

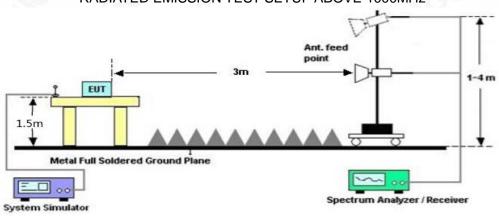
#### Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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Page 36 of 54

#### 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**

No emission found between lowest internal used/generated frequencies to 30MHz.

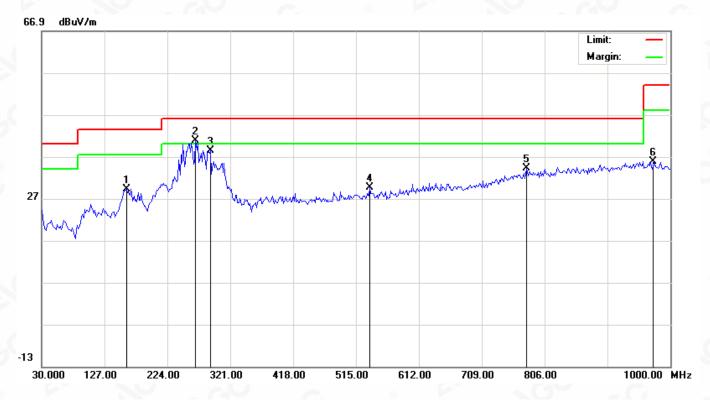




Page 37 of 54

## **RADIATED EMISSION BELOW 1GHZ**

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		160.9499	10.18	19.09	29.27	43.50	-14.23	peak			
2	*	267.6499	21.82	18.93	40.75	46.00	-5.25	peak			
3		290.2832	18.74	19.70	38.44	46.00	-7.56	peak			
4		536.0167	3.88	25.70	29.58	46.00	-16.42	peak			
5		778.5167	4.32	29.92	34.24	46.00	-11.76	peak			
6		974.1332	3.44	32.34	35.78	54.00	-18.22	peak			

**RESULT: PASS** 



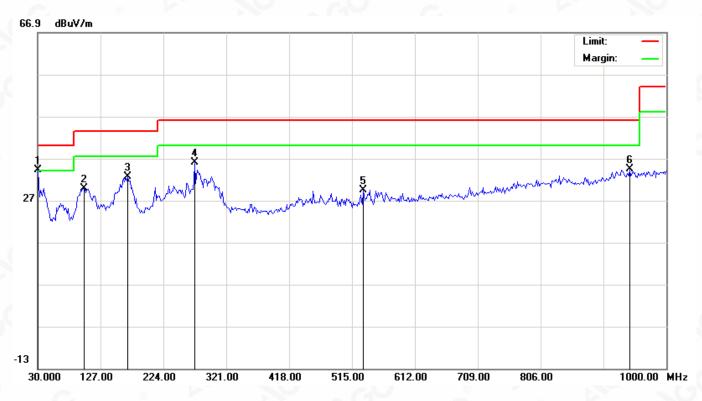
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Page 38 of 54

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	30.0000	15.97	18.17	34.14	40.00	-5.86	peak			
2		101.1333	13.77	16.12	29.89	43.50	-13.61	peak			
3		169.0331	14.39	18.26	32.65	43.50	-10.85	peak			
4		272.5000	16.74	19.33	36.07	46.00	-9.93	peak			
5		532.7833	3.86	25.63	29.49	46.00	-16.51	peak			
6		943.4166	2.37	32.07	34.44	46.00	-11.56	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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Page 39 of 54

# **RADIATED EMISSION ABOVE 1GHZ**

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.57	0.08	43.65	74	-30.35	peak
4804.000	37.61	0.08	37.69	54	-16.31	AVG
7206.000	40.29	2.21	42.5	74	-31.5	peak
7206.000	34.92	2.21	37.13	54	-16.87	AVG
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EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	41.66	0.08	41.74	74	-32.26	peak
4804.000	36.52	0.08	36.6	54	-17.4	AVG
7206.000	38.97	2.21	41.18	74	-32.82	peak
7206.000	34.21	2.21	36.42	54	-17.58	AVG
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				©		
emark:			- GY		8	
actor = Anter	nna Factor + Cable	Loss - Pre-	-amplifier.		G	8



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Page 40 of 54

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	42.68	0.14	42.82	74	-31.18	peak
4880.000	37.55	0.14	37.69	54	-16.31	AVG
7320.000	39.42	2.36	41.78	74	-32.22	peak
7320.000	35.71	2.36	38.07	54	-15.93	AVG
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actor = Anter	nna Factor + Cable	e Loss – Pre-	-amplifier.	(3)		

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	39.67	0.14	39.81	74 🍥	-34.19	peak
4880.000	35.81	0.14	35.95	54	-18.05	AVG
7320.000	36.73	2.36	39.09	74	-34.91	peak
7320.000	33.47	2.36	35.83	54	-18.17	AVG
<u>®</u>			-C	•		
emark:	©					®
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			





Page 41 of 54

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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 Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	42.24	0.22	42.46	74	-31.54	peak
4960.000	36.51	0.22	36.73	54	-17.27	AVG
7440.000	39.58	2.64	42.22	74	-31.78	peak
7440.000	34.65	2.64	37.29	54	-16.71	AVG
30	. 6			- GG	-6	<u> </u>
emark:	6				10	7.0
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.	(3)		

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
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		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4960.000	38.94	0.22	39.16	74 🏻	-34.84	peak	
4960.000	34.76	0.22	34.98	54	-19.02	AVG	
7440.000	36.33	2.64	38.97	74	-35.03	peak	
7440.000	31.78	2.64	34.42	54	-19.58	AVG	
<u>®</u>			<i>c</i> .O	•			
emark:	<u>(</u> ()					®	
actor = Anter	nna Factor + Cable	Loss - Pre-	-amplifier.				

### **RESULT: PASS**

**Note:** Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

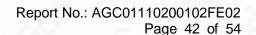
Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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



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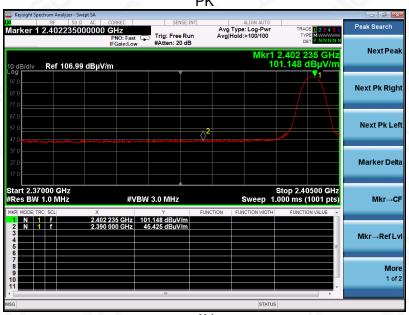


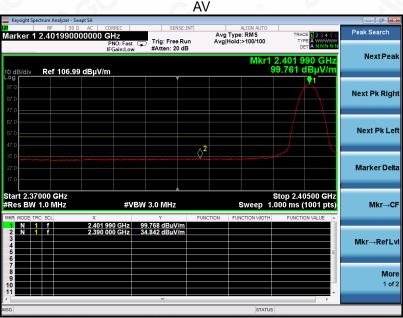


**TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS (1M)** 

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





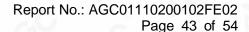


**RESULT: PASS** 



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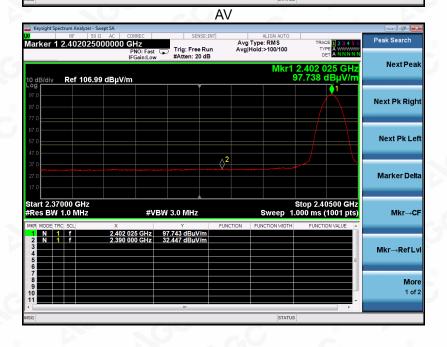
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





Soundcore Rave Neo, **EUT Model Name** A3395, A3396 Soundcore Trance Neo **Temperature** 25° C **Relative Humidity** 55.4% **Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 1 **Antenna** Vertical





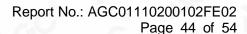
**RESULT: PASS** 



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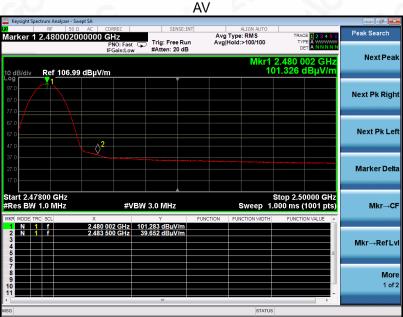




Soundcore Rave Neo, A3395, A3396 **EUT Model Name** Soundcore Trance Neo 25° C **Temperature Relative Humidity** 55.4% 960hPa **Pressure Test Voltage** Normal Voltage **Test Mode** Mode 3 **Antenna** Horizontal







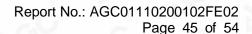
**RESULT: PASS** 



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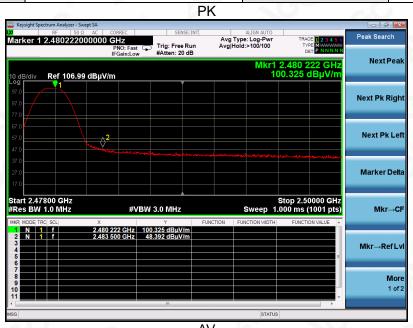
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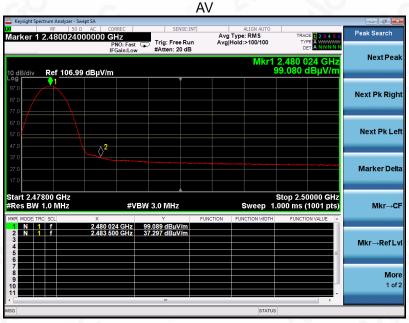
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EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





### **RESULT: PASS**

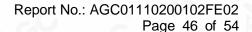
**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.



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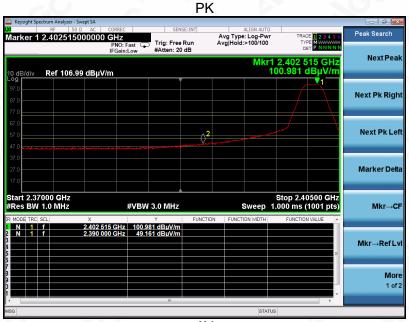
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline: 400 089 2118

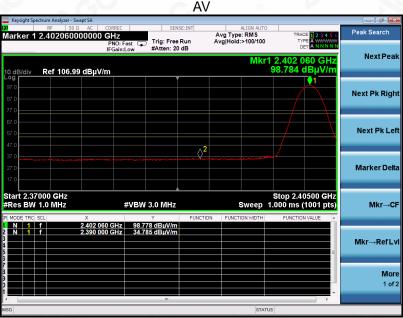




TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS (2M)

EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



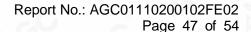


**RESULT: PASS** 



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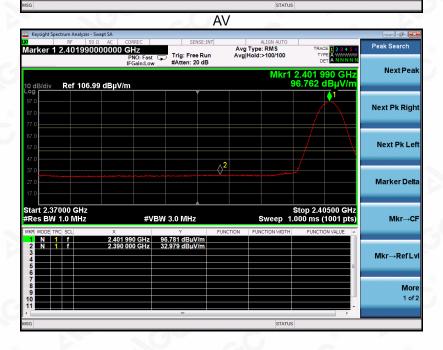
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





Soundcore Rave Neo, **EUT Model Name** A3395, A3396 Soundcore Trance Neo **Temperature** 25° C **Relative Humidity** 55.4% **Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 1 **Antenna** Vertical





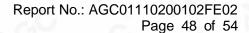
**RESULT: PASS** 



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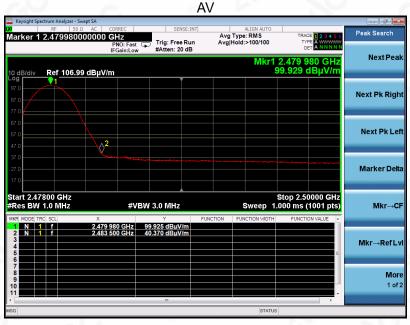




EUT	Soundcore Rave Neo, Soundcore Trance Neo	Model Name	A3395, A3396
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal







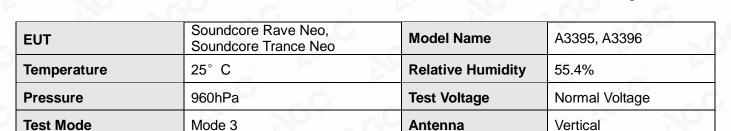
**RESULT: PASS** 

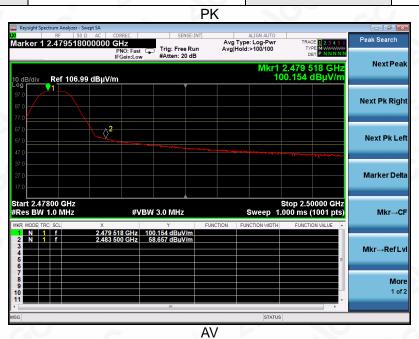


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## **RESULT: PASS**

AGC

**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( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.



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Page 50 of 54

## 12. FCC LINE CONDUCTED EMISSION TEST

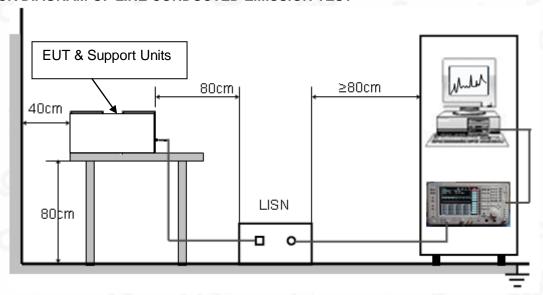
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum R	F 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







Page 51 of 54

#### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's 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 charging voltage by adapter which received AC120V/60Hz power by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

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

#### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

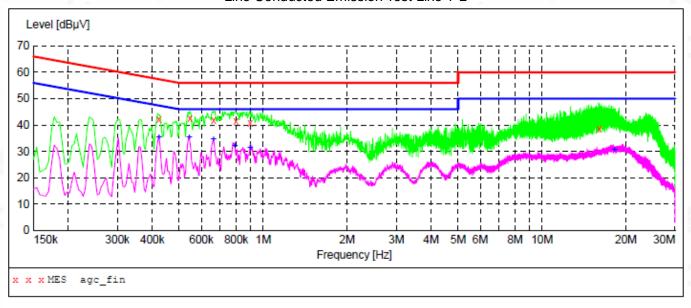




Page 52 of 54

### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT:

2020/	1/17	10:	19
Fr	eguen	CV	Tie

/20/1/1/ 10.							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.422000	42.00	11.3	57	15.4	QP	L1	FLO
0.546000	42.40	11.3	56	13.6	QP	L1	FLO
0.662000	41.80	11.3	56	14.2	QP	L1	FLO
0.798000	41.60	11.3	56	14.4	QP	L1	FLO
0.898000	40.80	11.3	56	15.2	QP	L1	FLO
16.038000	38.60	12.0	60	21.4	QP	L1	FLO

# MEASUREMENT RESULT: "agc fin2"

~	00	$\sim$	14	/4 7	1.0	4.0
2	υ2	U,	$\prime \perp \prime$	/17	10	:19

2020/1/1/ 10:	10						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.422000	35.30	11.3	47	12.1	AV	L1	FLO
0.542000	35.40	11.3	46	10.6	AV	L1	FLO
0.662000	34.50	11.3	46	11.5	AV	L1	FLO
0.790000	32.10	11.3	46	13.9	AV	L1	FLO
0.898000	31.20	11.3	46	14.8	AV	L1	FLO
18.158000	30.70	12.2	50	19.3	AV	L1	FLO



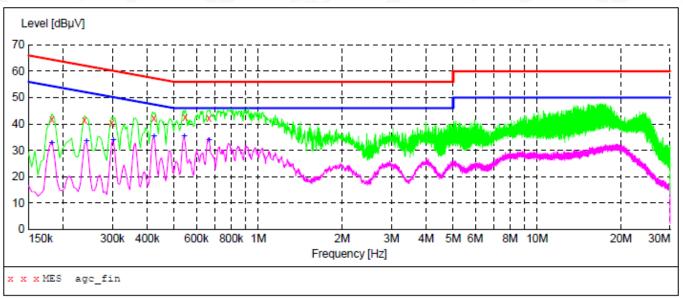
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service

Service Hotline: 400 089 2118



### Line Conducted Emission Test Line 2-N



## MEASUREMENT RESULT: "agc\_fin"

2020/1	1/17 10:1	12						
Fre	equency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.	.182000	41.70	11.3	64	22.7	QP	N	FLO
0.	.238000	41.40	11.3	62	20.8	QP	N	FLO
0.	.298000	40.50	11.3	60	19.8	QP	N	FLO
0	.422000	42.00	11.3	57	15.4	QP	N	FLO
0.	.546000	42.40	11.3	56	13.6	QP	N	FLO
0.	.666000	42.20	11.3	56	13.8	QP	N	FLO

## MEASUREMENT RESULT: "agc\_fin2"

	2020/1/17 10:	12						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.182000	32.90	11.3	54	21.5	AV	N	FLO
	0.242000	33.50	11.3	52	18.5	AV	N	FLO
	0.302000	33.70	11.3	50	16.5	AV	N	FLO
	0.422000	35.30	11.3	47	12.1	AV	N	FLO
	0.542000	35.40	11.3	46	10.6	AV	N	FLO
	0.666000	33.80	11.3	46	12.2	AV	N	FLO
F	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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Page 54 of 54

## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to Attached file (APPENDIX I)

**APPENDIX B: PHOTOGRAPHS OF EUT** 

Refer to Attached file (APPENDIX I)

----END OF REPORT----

