

FCC Test Report

Report No.: AGC01110190219FE08

FCC ID 2AOKB-A3024

IC 23451-A3024

APPLICATION PURPOSE **Original Equipment**

PRODUCT DESIGNATION Soundcore Life 2 NC

BRAND NAME Soundcore

MODEL NAME A3024

CLIENT Anker Innovations Limited

Mar. 28, 2019 DATE OF ISSUE

FCC Part 15 Subpart C Section 15.247, ANSI C63.10: 201 STANDARD(S)

RSS-GEN: Issue 5,RSS-247: Issue 2

REPORT VERSION V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Mar. 22, 2019	Invalid	Initial release
V1.1	1st	Mar. 28, 2019	Valid	Revise report

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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	TCL Technoly Electronics(Huizhou) Co., Ltd			
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R.China			
Product Designation	Soundcore Life 2 NC			
Brand Name	Soundcore			
Test Model	A3024			
Date of test	Feb. 28, 2019 to Mar. 28, 2019			
Deviation	None None			
Condition of Test Sample	Normal			
Report Template	AGCRT-US-BLE/RF (2013-03-01)			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247. The test results of this report relate only to the tested sample identified in this report.

Tested By	JohnZerg	
-GC	John Zeng(Zeng Weiqiang)	Mar. 28, 2019
Reviewed By	Borasse	Companies (S. A.
® Allegation of Gastran	Bart Xie(Xie Xiaobin)	Mar. 28, 2019
Approved By	Fowers ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	Mar. 28, 2019

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2.GENERAL INFORMATION 2.1PRODUCT DESCRIPTION

The EUT is designed as a "Soundcore Life 2 NC". It is designed by way of utilizing the FHSS 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	0.973dBm(Max)
Bluetooth Version	V5.0
Modulation (BLE)	GFSK for BLE
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	PCB Antenna
Antenna Gain	1.6dBi
Hardware Version	40-AK3024-MAE4G
Software Version	V1.06
Power Supply	DC 3.7V by battery
	used for charging and can't be used to transfer data with PC. EUT didn't work when charging.

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2.2TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013.

2.3 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.4 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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Conducted Band Edges, Uc = ±1.5 dB
- Uncertainty of Radiated Band Edges, Uc = ±4.8 dB
- Uncertainty of 6 dB Bandwidth, Uc = ±1.5dB
- Uncertainty of Conducted Output Power, Uc = ±1.5 dB
- Uncertainty of Conducted Spurious Emission, Uc = ±1.5dB
- Uncertainty of Conducted Power Spectral Density, Uc = ±1.5dB

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3. SYSTEM TEST CONFIGURATION

3.1 CONFIGURATION OF TESTED SYSTEM

Configure 1: (Normal hopping)

EUT

Configuration: Continuous TX

EUT	iton of Global Con	Control box	CC	PC
			11 TILL	

3.2 EQUIPMENT USED IN TESTED SYSTEM

Item Equipment		Equipment Mfr/Brand Mode		Remark
1	Soundcore Life 2 NC	Soundcore	A3024	EUT
2	battery	VDL	902532	Accessory
3	O PC	APPLE	A1465	A.E
4	IPOD	APPLE	A1367	A.E
5	Control box	GZUT	USB_TTL	A.E
6	USB Cable	N/A	N/A	A.E
7	PC	DELL	OPTIPLEX 380	A.E.

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3.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203, §RSS-Gen 6.8	Antenna Requirement	Compliant
§15.209 §15.247(d), §RSS-Gen 8.9	Radiated Emission	Compliant
§15.247(d), §RSS-Gen 8.10	Band Edges	Compliant
§15.247(a) (2), §RSS 247 5.2 (a) §RSS-Gen 4.6	6 dB Bandwidth	Compliant
§15.247(b) §RSS 247 5.4 (d)	Conducted Output Power	Compliant
§15.247(d), §RSS 247 5.5	Conducted Spurious Emission	Compliant
§15.247(e), §RSS 247 5.2 (b)	Conducted Power Spectral Density	Compliant
§15.207, §RSS-Gen 8.8	Line Conduction Emission	N/A

Note: N/A means it's not applicable to this item.

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4. DESCRIPTION OF TEST MODES

The EUT has been operated in one modulation: GFSK.

NO.	TEST MODE DESCRIPTION
(3) A station of Cloban	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4 0 4	BT Link

Note: 1. Only the result of the worst case was recorded in the report if no any records.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. Transmitting duty cycle >98%, The average correction factor is about -0.18
- 4. The EUT used fully-charged battery when tested.

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5. TEST FACILITY

- NV				
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			

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6. TEST EQUIPMENT LIST TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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7. ANTENNA REQUIREMENT

7.1. STANDARD APPLICABLE

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

7.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

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8. RADIATED EMISSION

8.1 LIMITS

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	μ V/m	dB(μV)/m		
0.009 ~ 0.490	300	2400/F(kHz)	III TK TE MINISTER		
0.490 ~ 1.705	30	24000/F(kHz)	plance (8) ##		
1.705 ~ 30	30	30	- CO CO		
30 ~ 88		100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3 3	200	46.0		
960 ~ 1000	3 F Thompson	500	54.0		
Above 1000	3 Albertation	Other:74.0 dB(µV)/m (Peak)	54.0 dB(µV)/m (Average)		

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

8.2 MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz).

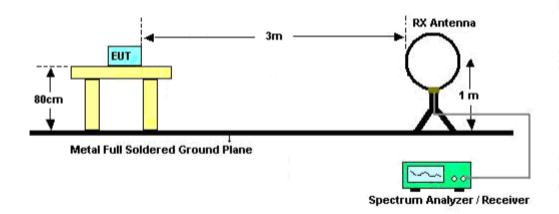
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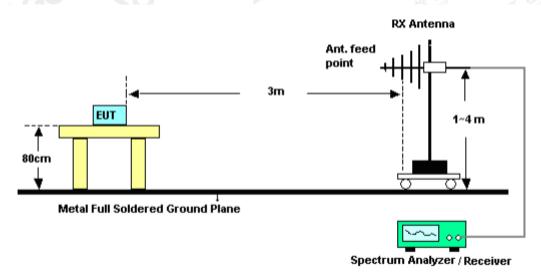
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8.3 TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

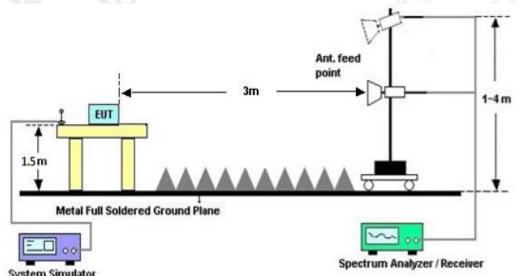


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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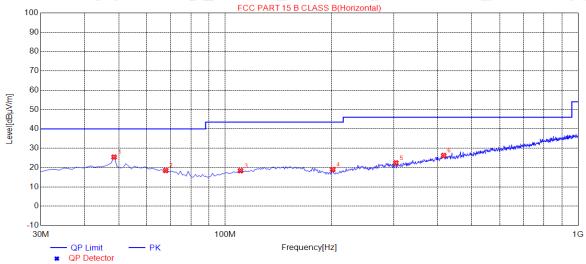
8.4 TEST RESULT

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



Sus	Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	48.4300	25.39	14.71	40.00	14.61	100	200	Horizontal			
2	67.8300	18.44	12.59	40.00	21.56	150	270	Horizontal			
3	110.510	18.36	12.47	43.50	25.14	100	240	Horizontal			
4	201.690	19.01	12.17	43.50	24.49	200	310	Horizontal			
5	304.510	22.42	16.07	46.00	23.58	200	320	Horizontal			
6	416.060	26.25	20.14	46.00	19.75	150	220	Horizontal			

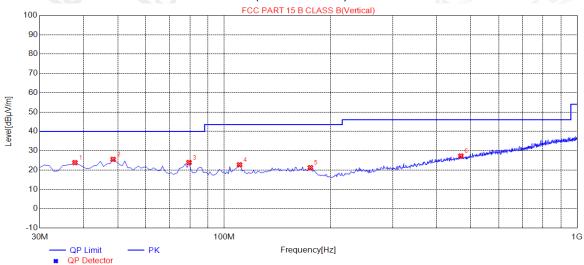
\RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



Suspe	Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	37.7600	23.83	14.39	40.00	16.17	100	170	Vertical		
2	48.4300	25.54	14.71	40.00	14.46	200	290	Vertical		
3	79.4700	23.89	10.26	40.00	16.11	200	120	Vertical		
4	110.510	22.72	12.47	43.50	20.78	200	10	Vertical		
5	175.500	21.22	13.43	43.50	22.28	200	320	Vertical		
6	468.440	27.25	21.38	46.00	18.75	200	30	Vertical		

RESULT: PASS

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

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All modes were tested, and only the data of worst case mode 1 was recorded in this report.

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RADIATED EMISSION ABOVE 1GHZ FOR BLE

EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 1	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	all
4804.026	48.23	3.76	51.99	74	-22.01	peak
4804.026	46.75	3.76	50.51	54	-3.49	AVG
7206.039	37.79	8.17	45.96	74	-28.04	peak
7206.039	33.78	8.17	41.95	54	-12.05	AVG
Remark:	30				1451	The Manager

EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 1	Polarization :	Vertical

200	GIV.					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	ati n of Glob
4804.026	51.09	3.76	54.85	74	-19.15	peak
4804.026	45.23	3.76	48.99	54	-5.01	AVG
7206.039	40.35	8.17	48.52	74	-25.48	peak
7206.039	37.78	8.17	45.95	54	-8.05	AVG
Remark:	T Kinglance	环 橙	niance (i) Me in the	Glopal Co	ation of Glove	G .
Factor = Ante	enna Factor + Cable	e Loss – Pre-amp	olifier.	GG M		

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EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 2	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.032	48.84	3.78	52.62	74	-21.38	peak
4880.032	44.64	3.78	48.42	54	-5.58	AVG
7323.048	42.76	8.23	50.99	74	-23.01	peak
7323.048	41.29	8.23	49.52	54	-4.48	AVG

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 2	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	The Mile Compliant
4880.032	50.19	3.78	53.97	74	-20.03	peak
4880.032	45.77	3.78	49.55	54	-4.45	AVG
7323.048	41.75	8.23	49.98	74	-24.02	peak
7323.048	39.07	8.23	47.3	54	-6.7	AVG
Remark:	lite-		JUL .	K Kanpliance	That compliant	® The station of the

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EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 3	Polarization:	Horizontal

		The Action Compilaries	A Compliance	Margin	Attestation of A
Meter Reading	Factor	Emission Level	Limits	Hone	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
47.98	3.81	51.79	74	-22.21	peak
45.49	3.81	49.3	54	-4.7	AVG
41.1	8.27	49.37	74	-24.63	peak
38.34	8.27	46.61	54	-7.39	AVG
	47.98 45.49 41.1	(dBµV) (dB) 47.98 3.81 45.49 3.81 41.1 8.27	(dBμV) (dB) (dBμV/m) 47.98 3.81 51.79 45.49 3.81 49.3 41.1 8.27 49.37	(dBμV) (dB) (dBμV/m) (dBμV/m) 47.98 3.81 51.79 74 45.49 3.81 49.3 54 41.1 8.27 49.37 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 47.98 3.81 51.79 74 -22.21 45.49 3.81 49.3 54 -4.7 41.1 8.27 49.37 74 -24.63

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	The Will Compliant
4960.042	48.16	3.81	51.97	74	-22.03	peak
4960.042	46.47	3.81	50.28	54	-3.72	AVG
7440.063	42.32	8.27	50.59	74	-23.41	peak
7440.063	39.18	8.27	47.45	54	-6.55	AVG
Remark:	int.		- [1][]	Tomplance	The Compliant	® Mestation of Co

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

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

Only the data of worst recorded in this report.

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9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

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

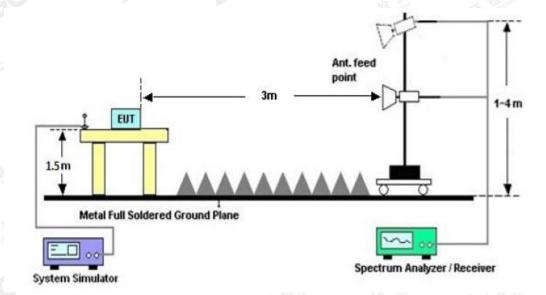
For unrestricted band: RBW=100kHz, VBW=300kHz

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

Center frequency = Operation frequency

The band edges was measured and recorded.

9.2. TEST SET-UP



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9.3. TEST RESULT

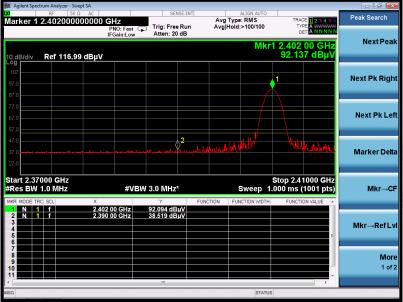
FOR BLE:

EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 1	Polarization :	Horizontal

PK Value







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EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 1	Polarization:	Vertical

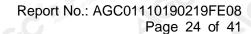




AV Value



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EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 3	Polarization:	Horizontal





AV Value

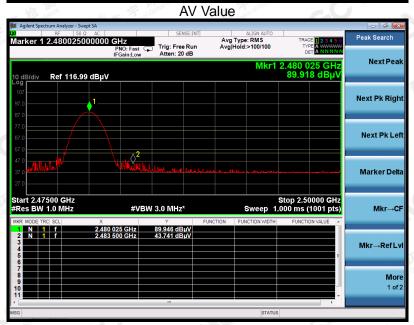


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EUT:	Soundcore Life 2 NC	Model Name. :	A3024
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 3	Polarization:	Vertical





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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10. 6DB BANDWIDTH

10.1. TEST 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.

10.2. SUMMARY OF TEST RESULTS/PLOTS

Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	700	S The Topological Complement (S) The Topological Complement (S	Pass
Middle	705	500KHz	Pass
High	704		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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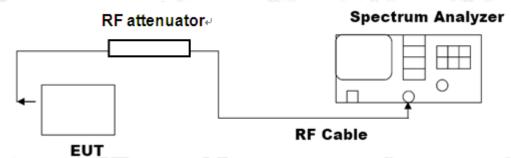
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11. CONDUCTED OUTPUT POWER

11.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. Use the following spectrum analyzer settings:
- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ 3 RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.
- 4. Allow the trace to stabilize.
- 5. Record the result form the Spectrum Analyzer.

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



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11.3. LIMITS AND MEASUREMENT RESULT

Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	0.938	30	Pass
Middle Channel	0.973	30	Pass
High Channel	0.326	30	Pass

The Low Channel Result



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The Middle Channel Result







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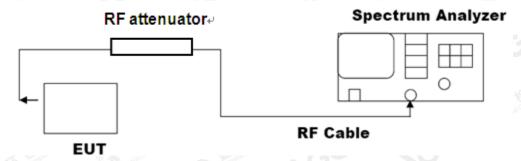
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12. CONDUCTED SPURIOUS EMISSION

12.1. 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.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions
 from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100kHz; VBW ≥3 RBW; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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



12.3. LIMITS AND MEASUREMENT RESULT

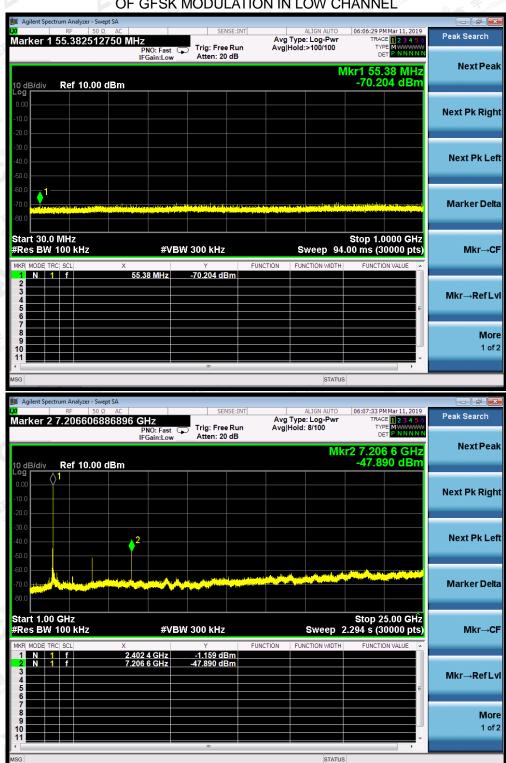
LIMITS AND MEASUREMENT RESULT					
Amplicable Limite	Measurement Re	esult			
Applicable Limits	Test Data	Result			
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit	The Compliance			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the radio frequency	Channel	Allee CO			
power that is produce by the intentional radiator shall		:III			
be at least 20 dB below that in 100KHz bandwidth		The Manual of the American			
within the band that contains the highest level of the		® # John of Global C			
desired power.	At least -20dBc than the limit	PASS			
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS			
restricted bands, as defined in §15.205(a), must also					
comply with the radiated emission limits specified		拉那			
in§15.209(a))		obal Compile			

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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN LOW CHANNEL

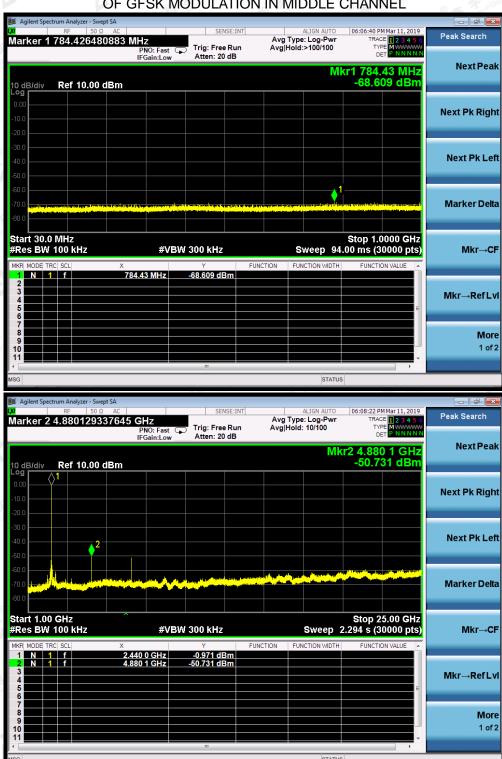


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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

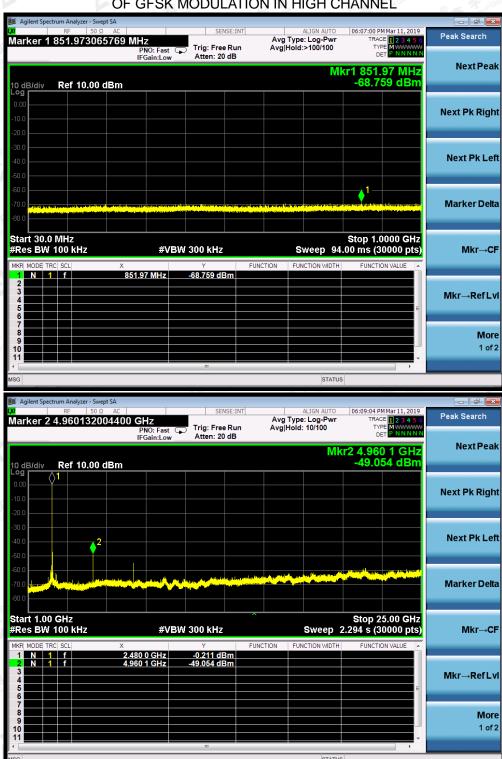


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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL



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TEST RESULT FOR BAND EDGE

LOW CHANNEL



HIGH CHANNEL



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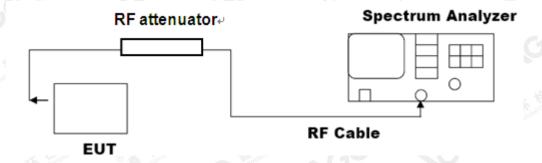
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13. CONDUCTED OUTPUT POWER SPECTRAL DENSITY 13.1 MEASUREMENT PROCEDURE

- (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 the span to 1.5times the DTS bandwidth, RBW: 3kHz<=RBW<=100KHz, VBW>=3*RBW
- (4). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

13.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



13.3 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low Channel	-14.674	8	Pass
Middle Channel	-14.555	8	Pass
High Channel	-15.166	8	Pass

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TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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14. LINE CONDUCTED EMISSION TEST

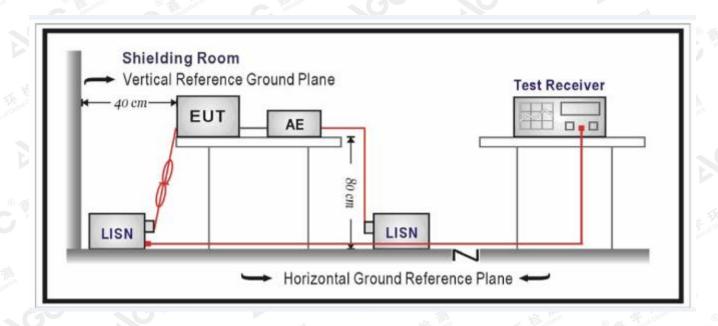
14.1 LIMITS

Frequency	Maximum RF Line Voltage	
	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

14.2 TEST SETUP



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14.3 PRELIMINARY PROCEDURE

- 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 120V/60Hzpower by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 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 following 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.

14.4 FINAL TEST PROCEDURE

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

14.5 TEST RESULT OF POWER LINE

N/A

Note: The BT function of EUT didn't work when charging.

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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----

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