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1. Product Information

FCC ID	: 2A7GB-NC3
Product name	: ANC Noise Cancelling Headphones
Test Model	: NC3
Additional Model No.	: NC3pro, NC3plus
Model Declaration	: PCB board, structure and internal of these model(s) are the same,
	So no additional models were tested
Power Supply	: For earphone:DC 5V 40mA Battery:DC 3.7V 40mAh
	For charging case: DC 5V 400mA Battery:DC 3.7V 400mAh
Hardware Version	: / IST LCS Testing
Software Version	: /
Bluetooth	: 2402MHz ~ 2480MHz
Channel Number	: 79 channels for Bluetooth V5.3(DSS)
Channel Spacing	: 1MHz for Bluetooth V5.3(DSS)
Modulation Type	: GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V5.3(DSS)
Bluetooth Version	: V5.0
Antenna Type	: Ceramics Antenna
Antenna Gain	: 1.9dBi
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Portable Device

2. Evaluation method and Limit

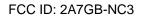
According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] .



Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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 $[\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion. a) The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

b)The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04, and the [∑ of MPE ratios] is ≤ 1.0.

3. Refer Evaluation Method

<u>ANSI C95.1–1999</u>: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

<u>FCC KDB publication 447498 D01 General RF Exposure Guidance v06:</u> Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

		<bt></bt>	
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	0.26
	39	2441	0.43
The state of the s	78	2480	0.79
LST CS Testin	0	2402	0.29
π/4DQPSK	39	2441	0.49
	78	2480	0.53
	0	2402	0.36
8DPSK	39	2441	0.62
	78	2480	0.65

4. Conducted Power Results



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5. Manufacturing Tolerance

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GFSK (Peak)					
Channel	Channel 0	Channel 39	Channel 78		
Target (dBm)	0	0	0	7	
Tolerance ±(dB)	1.0	1.0	1.0		
	π/4DQPS	K (Peak)			
Channel	Channel 0	Channel 39	Channel 78		
Target (dBm)	0	0	0		
Tolerance ±(dB)	1.0	1.0	1.0	7	
	8DPSK	(Peak)		3	
Channel	Channel 0	Channel 0 Channel 39		1b	
Target (dBm)	0	0	0 cs 10	7	
Tolerance ±(dB)	1.0	1.0	1.0		

6. Evaluation Results

6.1 Standalone Evaluation

	Band/Mode		f	Antenna Distance	RF output power		SAR Test Exclusion	SAR Test
	Dan	a, modo	(GHz)	(mm)	dBm	mW	Threshold	Exclusion
		GFSK	2.480	5	1.0	1.2589	0.3965< 3.0	Yes
61 T	BT	π/4DQPSK	2.480	5	1.0	1.2589	0.3965< 3.0	Yes
(est	estingLa	8DPSK	2.480	5	1.0	1.2589	0.3965< 3.0	Yes

Remark:

1. Output power including tune up tolerance;

2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

.....THE END OF REPORT.....



Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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