FCC Part 1.1310

RF Exposure Evaluation REPORT

For

FCC ID：PANBM3095

Model：BM-3095

Report Type：Original Report	**Product Name**：Bluetooth v5.4 APTX LE Audio RX Module

Report Number： **RXZ260302006SA01**

Report Date： **2026-04-22**

Prepared By：**Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)**
70, Lane 169, Sec. 2, Datong Road, Xizhi Dist.,
New Taipei City 221, Taiwan, R.O.C.
Tel：+886 (2)2647 6898
Fax：+886 (2)2647 6895
www.bacl.com.tw

Facilities：**The test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.**

Statement of Compliance

Applicant (Certification Holder)	CC&C Technologies, Inc.
	8F, No.150, Jian Yi Rd, Zhonghe District, New Taipei City, 235, Taiwan
Brand (Trade) Name	CC&C
Product (Equipment) Name	Bluetooth v5.4 APTX LE Audio RX Module
Main Model Name	BM-3095
Series Model Name	N/A
Model Discrepancy	N/A

Measurement Procedures and Standards Used:

☒ FCC Part 2.1091

☒ FCC Part 1.1310

The measurement results in this report were performed at Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Report Issued Date ： 2026-04-22

Reviewed By ： Anson Lu 

Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
0.0	RXZ260302006	RXZ260302006SA01	2026.04.22	Original Report	Anson Lu

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1. General Information

Product Description for Equipment under Test (EUT)

Product Name	Bluetooth v5.4 APTX LE Audio RX Module
Frequency Range	2402 ~ 2480 MHz
EIRP Tune-Up Power (dBm)	Bluetooth(GFSK)：6.50 dBm Bluetooth(π /4-DQPSK)：9.50 dBm Bluetooth(8DQPSK)：10.00 dBm BLE(1M)：6.50 dBm BLE(2M)：6.50 dBm
Modulation Technique	BR Mode：GFSK EDR Mode：π/4-DQPSK, 8DPSK BLE(1M) / BLE(2M) : GFSK
Antenna Specification	Type：Chip Antenna Gain：0.5 dBi
Received Date	2025/04/08

**All measurement and test data in this report was gathered from production sample serial number: RXZ260302006-1 (Assigned by BACL (New Taipei Laboratory)).*

2. RF Output Power Evaluation

Please refer to RF report No: RXZ260302006RF01/RF02.

RF Conducted Output Power Table：

Channel	Frequency (MHz)	Conducted Peak Output Power	
		(dBm)	(W)
BR Mode (GFSK)			
Low	2402	6.48	0.004
Middle	2441	6.35	0.004
High	2480	6.28	0.004
EDR Mode (π/4-DQPSK)			
Low	2402	9.19	0.008
Middle	2441	9.04	0.008
High	2480	9.00	0.008
EDR Mode (8DPSK)			
Low	2402	9.66	0.009
Middle	2441	9.56	0.009
High	2480	9.48	0.009

Channel	Frequency (MHz)	Conducted Peak Output Power(dBm)
BLE(1M) Mode		
Low	2402	6.48
Middle	2440	6.32
High	2480	6.28
BLE(2M) Mode		
Low	2402	6.47
Middle	2440	6.34
High	2480	6.29

3. FCC §1.1310 - RF Exposure

Applicable Standard

According to subpart §1.1310 (a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

§1.1310 (d)(2) For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in paragraph (e)(1) of this section, may be used instead of whole-body SAR limits as set forth in paragraphs (a) through (c) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in § 1.1307(b) of this part, except for portable devices as defined in § 2.1093 of this chapter as these evaluations shall be performed according to the SAR provisions in § 2.1093.

§1.1310 (d)(3) At operating frequencies above 6 GHz, the MPE limits listed in Table 1 in paragraph (e)(1) of this section shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in § 1.1307(b) of this part.

For single RF sources (*i.e.,* any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *Pth* (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *Pth* is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

TABLE 1 TO § 1.1307(b)(3)(i)(C)—SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2 f.
1,500-100,000	19.2R^2.

4. RF Exposure Evaluation Result

Band	Freq. (MHz)	Max. Output Power (Peak/dBm)	Tune-up Power (Peak/dBm)	Ant. Gain (dBi)	Distances (mm)	Tune-up Power (Peak/mW)	ERP (dBm)	ERP (mW)
BT(GFSK)	2402	6.48	6.50	0.5	200	4.47	4.85	3.05
BT(GFSK)	2441	6.35	6.50	0.5	200	4.47	4.85	3.05
BT(GFSK)	2480	6.28	6.50	0.5	200	4.47	4.85	3.05
BT(π/4-DQPSK)	2402	9.19	9.50	0.5	200	8.91	7.85	6.10
BT(π/4-DQPSK)	2441	9.04	9.50	0.5	200	8.91	7.85	6.10
BT(π/4-DQPSK)	2480	9.00	9.50	0.5	200	8.91	7.85	6.10
BT(8DPSK)	2402	9.66	10.00	0.5	200	10.00	8.35	6.84
BT(8DPSK)	2441	9.56	10.00	0.5	200	10.00	8.35	6.84
BT(8DPSK)	2480	9.48	10.00	0.5	200	10.00	8.35	6.84
BLE(1M)	2402	6.48	6.50	0.5	200	4.47	4.85	3.05
BLE(1M)	2440	6.32	6.50	0.5	200	4.47	4.85	3.05
BLE(1M)	2480	6.28	6.50	0.5	200	4.47	4.85	3.05
BLE(2M)	2402	6.47	6.50	0.5	200	4.47	4.85	3.05
BLE(2M)	2440	6.34	6.50	0.5	200	4.47	4.85	3.05
BLE(2M)	2480	6.29	6.50	0.5	200	4.47	4.85	3.05

§ 1.1307(b)(3)(i)(A) method is not applicable.

Band	Freq. (MHz)	Result	Band	Freq. (MHz)	Result
BT(GFSK)	2402	not exempt	BLE(1M)	2402	not exempt
BT(GFSK)	2441	not exempt	BLE(1M)	2440	not exempt
BT(GFSK)	2480	not exempt	BLE(1M)	2480	not exempt
BT(π/4-DQPSK)	2402	not exempt	BLE(2M)	2402	not exempt
BT(π/4-DQPSK)	2441	not exempt	BLE(2M)	2440	not exempt
BT(π/4-DQPSK)	2480	not exempt	BLE(2M)	2480	not exempt
BT(8DPSK)	2402	not exempt			
BT(8DPSK)	2441	not exempt			
BT(8DPSK)	2480	not exempt			

§ 1.1307(b)(3)(i)(C) The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates ERP (watts) is no more than the calculated value prescribed for that frequency

R must be at least $\lambda/2\pi$

λ is the free-space operating wavelength in meters

Band	Freq. (MHz)	λ/2π (mm)	ERP Limit (mW)	Result	Ratio
BT(GFSK)	2402	19.88	768.00	exempt	0.01
BT(GFSK)	2441	19.56	768.00	exempt	0.01
BT(GFSK)	2480	19.25	768.00	exempt	0.01
BT(π/4-DQPSK)	2402	19.88	768.00	exempt	0.01
BT(π/4-DQPSK)	2441	19.56	768.00	exempt	0.01
BT(π/4-DQPSK)	2480	19.25	768.00	exempt	0.01
BT(8DPSK)	2402	19.88	768.00	exempt	0.01
BT(8DPSK)	2441	19.56	768.00	exempt	0.01
BLE(1M)	2402	19.25	768.00	exempt	0.01
BLE(1M)	2440	19.88	768.00	exempt	0.01
BLE(1M)	2480	19.57	768.00	exempt	0.01
BLE(2M)	2402	19.25	768.00	exempt	0.01
BLE(2M)	2440	19.88	768.00	exempt	0.01
BLE(2M)	2480	19.57	768.00	exempt	0.01

Note：The smaller the frequency, the worse the result

Note: The Tune-up output power was declared by the Applicant.

Result: The device compliant the SAR-Based Exemption at 20cm distances.

BLE and Bluetooth cannot transmit data simultaneously.

§ 1.1307(b)(3)(i)(C) PASS

Result: Compliance.

******* END OF REPORT *******