

# **MEASUREMENT REPORT**

FCC ID	: CHQ7261T9
IC	: 2968A-7261T9
APPLICANT	: RHINE ELECTRONIC CO., LTD.
Application Type	: Certification
Product	: Transmitter
Model No.	: UC7261T9
Brand Name	: RHINE
FCC Classification	<b>1</b> : FCC Part 15 Security/Remote Control Transmitter (DSC)
FCC Rule Part(s)	: Part 15.231(b)
ISED Standard	: RSS 210 Issue 10
Test Procedure(s)	: ANSI C63.10-2013
<b>Received Date</b>	: August 29, 2022
Test Date	: September 01~08, 2022
Tested By	Fran Chen
Reviewed By	(Fran Chen) : Paddy Chen (Paddy Chen)
Approved By	· ang her
The test regults only relate t	(Chenz Ker)

The test results only relate to the tested sample.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.



# **Revision History**

Report No.	Version	Description	Issue Date	Note
2208TW5401-U1	1.0	Original Report	2022-09-14	



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# §2.1033 General Information

Applicant	RHINE ELECTRONIC CO., LTD.		
Applicant Address	No. 29, Fong Li Road, Tan-Zi Dist, Taichung City 42754, Taiwan, R.O.C.		
Manufacturer	1. RHINE ELECTRONIC CO., LTD		
	2. KAM SHING ELECTRONIC CO., LTD		
	1. No.29, Fengli Rd., Tanzi Dist., Taichung City 427, Taiwan (R.O.C.)		
Manufacturer Address	2. THE YOUTH LNDUSTRIAL ADMINISTRATION PARK, CHENJIANG		
	TOWN,HUICHENG DISTRICT,HUIZHOU CITY, GUANGDONG,CHINA		
Test Site	MRT Technology (Taiwan) Co., Ltd		
Toot Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan		
Test Site Address	(R.O.C)		
MRT Registration No.	291082		
Test Device Serial No.	#1-1 Production Pre-Production Engineering		
FCC Classification	FCC Part 15 Security/Remote Control Transmitter(DSC)		

## **Test Facility / Accreditations**

- 1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
- 2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.



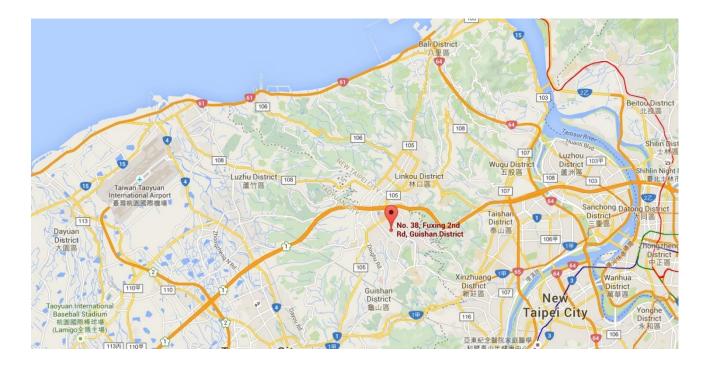
# 1. INTRODUCTION

## 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

# 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).





# 2. PRODUCT INFORMATION

## 2.1. Equipment Description

Product Name	Transmitter
Model No.	UC7261T9
Frequency Range	303.875 MHz
Type of modulation	ASK
Antenna Type	Integral Antenna

## 2.2. Test Standards

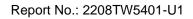
The following report is prepared on behalf of the **RHINE ELECTRONIC CO., LTD.** in accordance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules/ IC RSS-Gen 8.8,8.9,8.10 and RSS-210 AnnexA

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

## 2.3. Test Methodology

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013).

Deviation from measurement procedure.....None

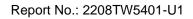




## 2.4. EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode	
Mode 1	Transmitting by 303.875MHz





# 3. ANTENNA REQUIREMENTS

#### Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the **Transmitter** is permanently attached.
- There are no provisions for connection to an external antenna.

#### Conclusion:

The Transmitter unit complies with the requirement of §15.203.



# 4. TEST EQUIPMENT CALIBRATION DATE

#### Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2023/3/7
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2023/6/19
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9

#### Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2022/10/4
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2023/3/9
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2023/5/24
Broadband Horn antenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2023/3/30
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2023/3/29
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2023/3/30
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2023/3/30
Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2023/6/14
Cable	Rosnol	K1K50-UP0264- K1K50-4M	MRTTWE00012	1 year	2023/6/19

#### Conducted Test Equipment - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2022/10/18
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2023/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2023/3/16

#### **Test Software**

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software



# 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted E	Emission Measurement – SR2		
Measuring l	Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):		
150kHz~30	MHz: ± 2.42dB		
Conducted Meas	surement– SR1		
Measuring l	Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): ± 1.3dB		
Radiated Emissi	ion Measurement – AC1		
Measuring l	Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):		
Horizontal:	9K~30MHz: ± 4.14dB		
	30MHz~1GHz: ± 4.22dB		
	1GHz~40GHz: ± 4.05dB		
Vertical:	Vertical: 9K~30MHz: ± 4.14dB		
	30MHz~1GHz: ± 3.37dB		
	1GHz~40GHz: ± 4.08dB		



# 6. TEST RESULT

#### 6.1. Summary

Company Name:

## RHINE ELECTRONIC CO., LTD.

FCC/IC Part Section(s)	Test Description	Test Condition	Test Result	
15.203	ANTENNA		Pass	
13.205	REQUIREMENTS		1 033	
15.205,15.209,15.231(b)/	Radiated Spurious		Pass	
RSS Gen 8.9,8.10 RSS-210 Annex A	Emissions		F d 5 5	
15.231(c)/	20dB Bandwidth /		Deee	
RSS-210 Annex A.1.3	99% Bandwidth	Dedicted	Pass	
15.231(a)/	Transmission Time	Radiated	Dees	
RSS-210 Annex A.1.1(a)	Transmission Time		Pass	
15.231(a)/	Duty Quele		Dasa	
RSS-210 Annex A.1.1(a)	Duty Cycle		Pass	
45.007 /	AC Conducted	Line		
15.207 /	Emissions	Line	N/A	
RSS Gen 8.8	150kHz - 30MHz	Conducted		

- Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 3) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 4) The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
- 5) The EUT Power by Battery, so do not need to test Conducted Emissions.



# 6.2. Radiated Emissions

### 6.2.1. Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	11,250 to 3,750	1125 to 375
174-260	3,750	375
260-470	13,750 to 12,500	1375 to 1,250
Above 470	12,500	1,250

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements start below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

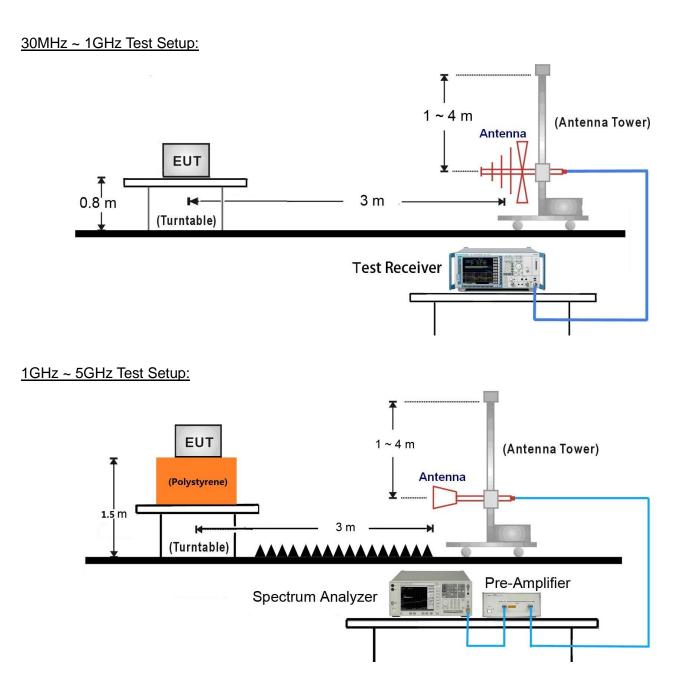
#### 6.2.2. Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit / RSS-Gen 8.9 and RSS-210 Annex A.1.2.



### 6.2.3. Test Setup

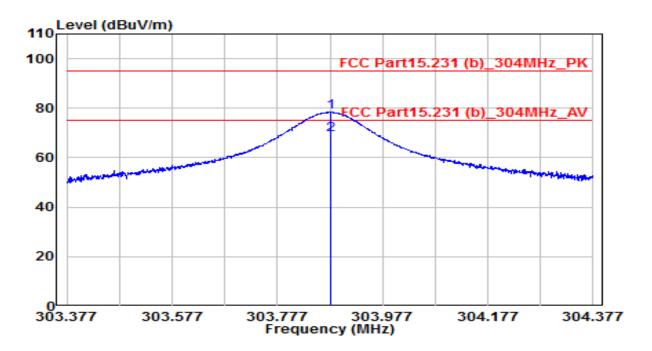
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit/ RSS-Gen 8.9 and RSS-210 Annex A.1.2.





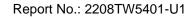
#### 6.2.4. Test Results

EUT	Transmitter	Date of Test	2022-09-08
Factor	VULB 9162	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	TX-303.875MHz	Test Voltage	By Battery



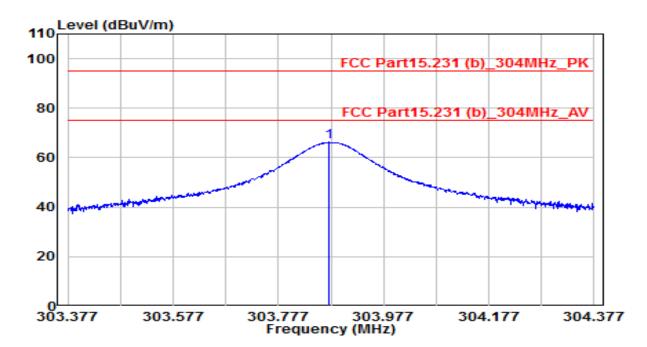
No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
NO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		303.878	56.70	21.63	78.33	-16.61	94.94	100	350	Peak
2	*	303.878	N/A	N/A	69.52	-5.42	74.94	100	350	Average

- 1. "  $^{\ast }$  ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. Average factor (20Log(1/Duty Cycle)) is 8.81dB,
- 6. Average Measurement = Peak Measurement Average factor.





EUT	Transmitter	Date of Test	2022-09-08
Factor	VULB 9162	Temp. / Humidity	24°C /62%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	TX-303.875MHz	Test Voltage	By Battery

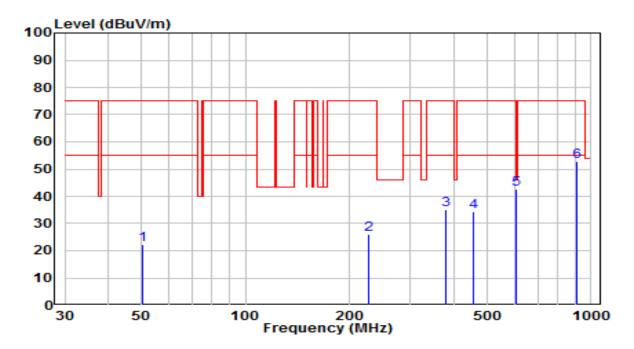


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	*	303.874	44.58	21.63	66.21	-28.73	94.94	110	250	Peak

- 1. "  $^{\ast }$  ", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Transmitter	Date of Test	2022-09-08
Factor	VULB 9162	Temp. / Humidity	24°C /62%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	TX-303.877MHz	Test Voltage	By Battery

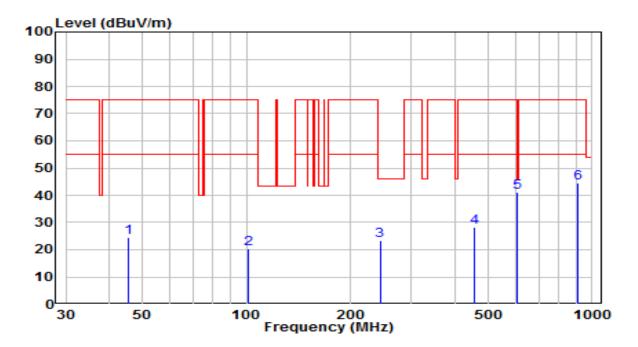


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		50.370	0.74	21.39	22.13	-52.80	74.93	100	360	Peak
2		227.880	6.48	19.71	26.19	-48.74	74.93	100	360	Peak
3		380.170	11.29	23.81	35.10	-39.83	74.93	100	360	Peak
4		455.830	9.51	24.85	34.36	-40.57	74.93	100	360	Peak
5	*	608.120	14.37	28.08	42.45	-3.55	46.00	100	360	Peak
6		911.730	20.50	32.17	52.66	-22.27	74.93	100	360	Peak

- 1. " \*", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Transmitter	Date of Test	2022-09-08		
Factor	VULB 9162	Temp. / Humidity	24°C /62%		
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz		
Test Mode	TX-303.877MHz	Test Voltage	By Battery		

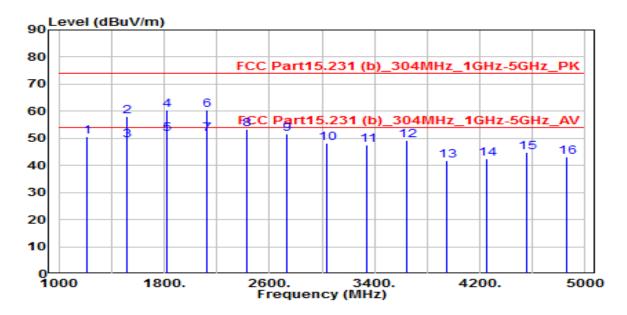


No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		45.520	3.14	21.32	24.46	-50.47	74.93	100	360	Peak
2		100.810	1.24	19.24	20.48	-54.45	74.93	100	360	Peak
3		243.400	2.65	20.58	23.24	-22.76	46.00	100	360	Peak
4		455.830	3.41	24.85	28.26	-46.67	74.93	100	360	Peak
5	*	608.120	13.18	28.08	41.26	-4.74	46.00	100	360	Peak
6		911.730	12.36	32.17	44.53	-30.40	74.93	100	360	Peak

- 1. " \*", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Transmitter	Date of Test	2022-09-08		
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%		
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz		
Test Mode	TX-303.877MHz	Test Voltage	By Battery		



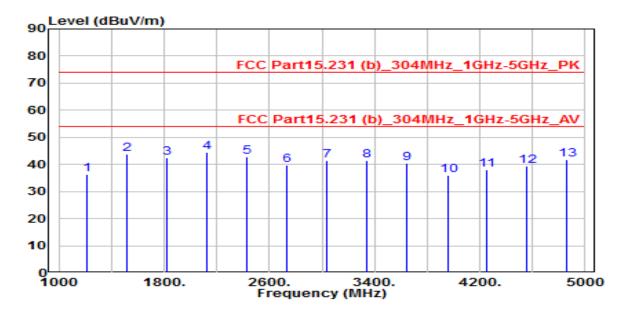
No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
No	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	1215.500	56.13	-5.38	50.75	-23.25	74.00	150	360	Peak
2	1519.375	62.26	-4.16	58.09	-15.91	74.00	150	360	Peak
3	1519.375	N/A	N/A	49.28	-4.72	54.00	150	360	Average
4	1823.500	64.19	-3.60	60.60	-13.40	74.00	150	360	Peak
5	* 1823.500	N/A	N/A	51.79	-2.21	54.00	150	360	Average
6	2127.375	63.39	-2.87	60.52	-13.48	74.00	150	360	Peak
7	2127.375	N/A	N/A	51.71	-2.29	54.00	150	360	Average
8	2431.125	55.38	-1.91	53.47	-20.53	74.00	150	360	Peak
9	2735.125	53.28	-1.81	51.47	-22.53	74.00	150	360	Peak
10	3038.875	50.12	-1.81	48.31	-25.69	74.00	150	360	Peak
11	3342.750	48.36	-0.80	47.56	-26.44	74.00	150	360	Peak
12	3646.875	49.05	0.11	49.16	-24.84	74.00	150	360	Peak
13	3950.875	40.83	0.91	41.74	-32.26	74.00	150	360	Peak
14	4254.375	40.35	2.06	42.42	-31.58	74.00	150	360	Peak
15	4558.125	41.74	3.16	44.90	-29.10	74.00	150	360	Peak
16	4862.250	39.44	3.72	43.16	-30.84	74.00	150	360	Peak



- 1. " \*", means this data is the worst emission level.
- 2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) Preamplifier(dB).
- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. Average factor (20Log(1/Duty Cycle)) is 8.81dB,
- 6. Average Measurement = Peak Measurement Average factor.



EUT	Transmitter	Date of Test	2022-09-08	
Factor	BBHA 9120D	Temp. / Humidity	24°C /62%	
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz	
Test Mode	TX-303.877MHz	Test Voltage	By Battery	



No	Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1	1215.375	41.64	-5.38	36.26	-37.74	74.00	150	360	Peak
2	1519.375	48.07	-4.16	43.91	-30.09	74.00	150	360	Peak
3	1824.625	46.15	-3.60	42.55	-31.45	74.00	150	360	Peak
4 '	* 2127.000	47.51	-2.87	44.64	-29.36	74.00	150	360	Peak
5	2431.250	44.65	-1.91	42.75	-31.25	74.00	150	360	Peak
6	2734.500	41.50	-1.81	39.69	-34.31	74.00	150	360	Peak
7	3039.125	43.18	-1.81	41.37	-32.63	74.00	150	360	Peak
8	3342.625	42.19	-0.80	41.39	-32.61	74.00	150	360	Peak
9	3646.750	40.34	0.11	40.45	-33.55	74.00	150	360	Peak
10	3962.500	35.16	0.94	36.10	-37.90	74.00	150	360	Peak
11	4251.750	36.04	2.05	38.09	-35.91	74.00	150	360	Peak
12	4558.125	36.38	3.16	39.54	-34.46	74.00	150	360	Peak
13	4862.125	37.93	3.72	41.65	-32.35	74.00	150	360	Peak

1. " \*", means this data is the worst emission level.

2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).



- 3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



#### 6.3. 20dB Bandwidth / 99% Bandwidth

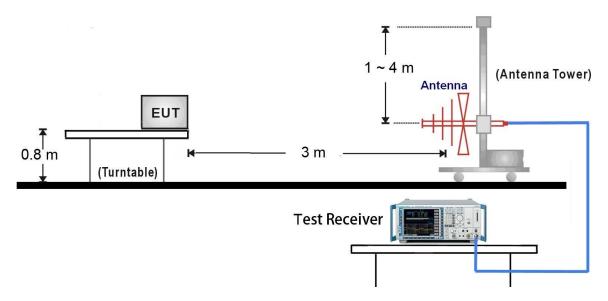
#### 6.3.1. Standard Applicable

According to FCC Part 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

#### 6.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

#### 6.3.3. Test Setup





### 6.3.4. Test Result

Test Frequency (MHz)	Modulation Type	20dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limit (KHz)	Result
303.877	ASK	9.79	28.17	≤ 759.7	Pass

Limit = Fundamental Frequency \* 0.25%, 303.877 MHz \* 0.25% = 0.7597MHz

## 0.7597MHz \* 1000= 759.7KHz





## 6.4. Transmission Time

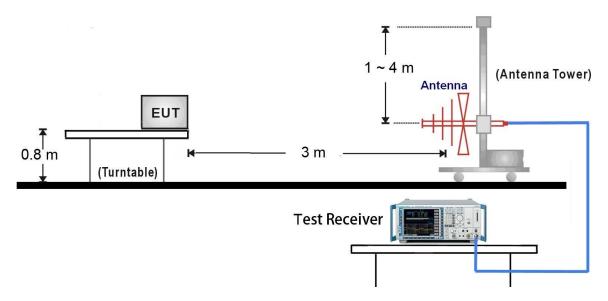
#### 6.4.1. Standard Applicable

According to FCC 15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### 6.4.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 434MHz, then set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

#### 6.4.3. Test Setup





### 6.4.4. Test Result

Test Item	Frequency	Measurement	Limit	Result
restitem	(MHz)	(s)	(s)	Result
Transmission Time (Ton)	303.877	1.40	< 5	Pass

303.877MHz-Transmission Time (Ton)					
Receiver Spectrum	8			•••• •	
Ref Level         -5.00 dBm           Att         10 dB         SWT           SGL PS         10 k Cirw         10 k Cirw	<ul> <li>RBW 100 kHz</li> <li>20 s</li> <li>VBW 100 kHz</li> </ul>	Input 1 AC			
-10 dBm		D1[1]		0.20 dB	
		M1[1]		1.4007 s -37.24 dBm	
-20 dBm				2.3425 s	
-30 dBm					
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm					
-80 dBm					
Muturnlymour portournel	dahiphi-afalilatikaapadataana	4. Maria Mariana	urunadanaran arakalan barre	wentlyhendniwerkerker	
-100 dBm					
CF 303.877 MHz	1001	pts		2.0 s/	
		Ready	(1111111) 🚧	01.09.2022 14:08:56	



## 6.5. Duty Cycle

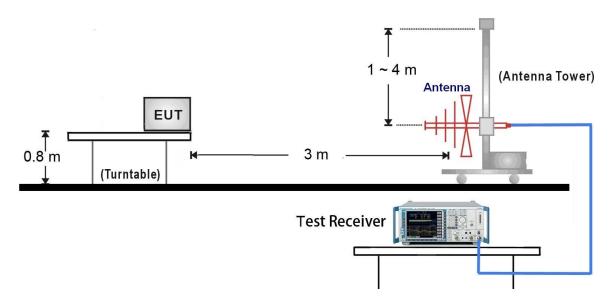
#### 6.5.1. Standard Applicable

According to FCC Part 15.231(b) and 15.35(c), for pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

#### 6.5.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 434MHz, then set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

#### 6.5.3. Test Setup





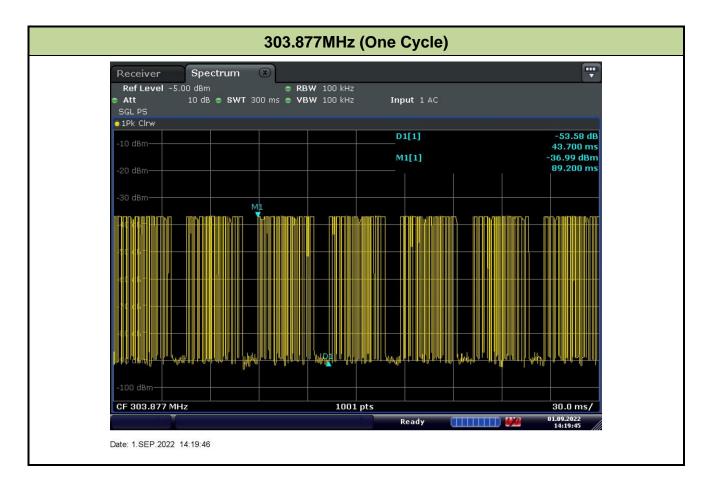
### 6.5.4. Test Result

Modulation Type	Total Time (T <sub>on</sub> )	The duration of one	Duty Cycle	Average Factor
	(ms)	cycle	(ms)	(dB)
		(ms)		
ASK	15.85	43.70	0.36	8.81

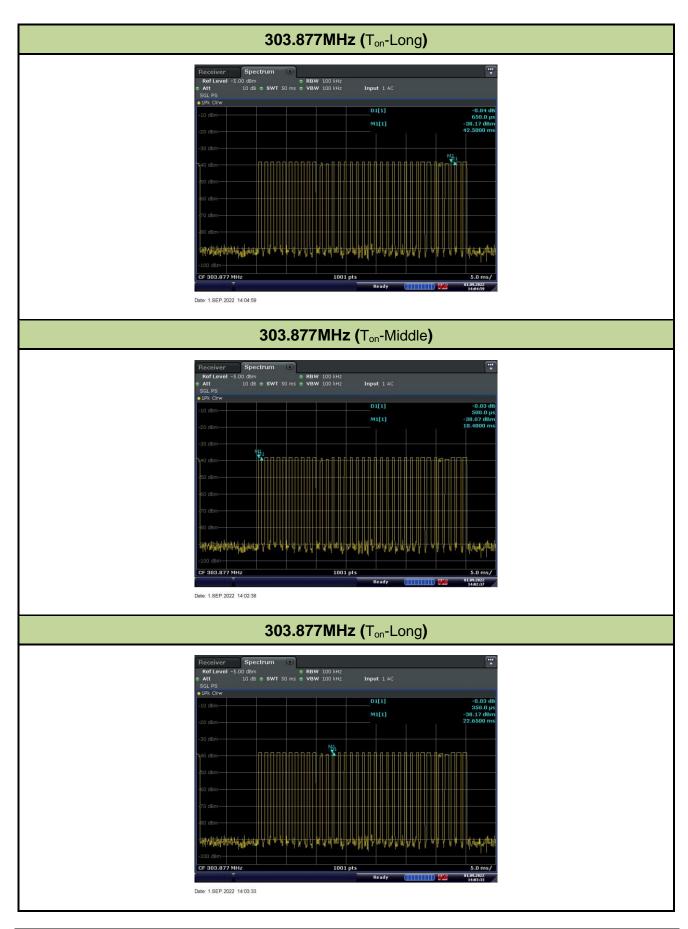
Note 1: Duty Cycle = Total Time  $(T_{on}) / (T_{on} + T_{off})$ .

(Long 650us\*7)+(Median 500us\*10)+(Short 350us\*18) =15850us, 15850us / 1000 = 15.85ms

Note 2: Average Factor = 20\*Log\*(1/Duty Cycle).









# 6.6. AC Conducted Emissions Measurement

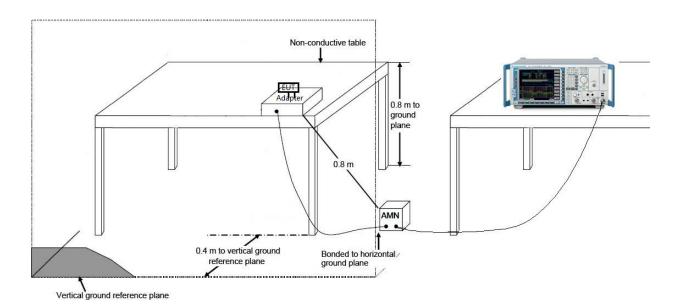
#### 6.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits					
Frequency (MHz)	QP (dBµV)	Average (dBµV)			
0.15 - 0.50	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30	60	50			

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

0.5MHz.

#### 6.6.2. Test Setup



Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to



## 6.6.3. Test Result

Note: The EUT Power by Battery, so do not need to test Conducted Emissions.



# 7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Transmitter** is in compliance with

FCC Rules/ IC RSS 210 Annex A1.1.

———— The End –