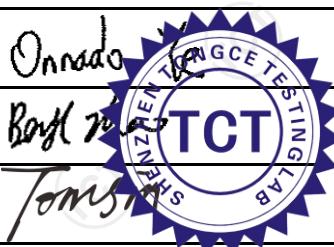


TEST REPORT

FCC ID.	2BN8F-VDP20
Test Report No.	TCT250515E036
Date of issue	May 22, 2025
Testing laboratory	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name	NUMLAKE TECH LIMITED
Address	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China
Manufacturer's name	NUMLAKE TECH LIMITED
Address	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.231
Product Name	Doorbell Camera
Trade Mark	N/A
Model/Type reference	P20, P10, P30, P60, P70, P90, V20, M20, T20
Rating(s)	Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item	May 15, 2025
Date (s) of performance of test	May 15, 2025 ~ May 22, 2025
Tested by (+signature)	Onnado YE
Check by (+signature)	Beryl ZHAO
Approved by (+signature) :	Tomsin



General disclaimer:

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Appendix A: Photographs of Test Setup

Appendix B: Photographs of EUT

1. General Product Information

1.1. EUT description

Product Name.....	Doorbell Camera
Model/Type reference.....	P20
Sample Number.....	TCT250515E006-0101
Operation Frequency	433.92MHz
Modulation Technology	FSK
Antenna Type.....	Spring Antenna
Antenna Gain.....	-1.74dBi
Rating(s).....	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	P20	<input checked="" type="checkbox"/>
Other models	P10, P30, P60, P70, P90, V20, M20, T20	<input type="checkbox"/>

Note: P20 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and appearance. So the test data of P20 can represent the remaining models.

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

Note:

1. PASS: *Test item meets the requirement.*
2. Fail: *Test item does not meet the requirement.*
3. N/A: *Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*

3. General Information

3.1. Test Environment and Mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	22.8 °C	24.3 °C
Humidity:	49 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Operation mode:	Keep the EUT in continuous transmitting with modulation	
<p>The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Y axis) are shown in Test Results of the following pages.</p>		

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	52.47	55.31	52.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098
SHENZHEN TONGCE TESTING LAB.
Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A
SHENZHEN TONGCE TESTING LAB
CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
TEL: +86-755-27673339

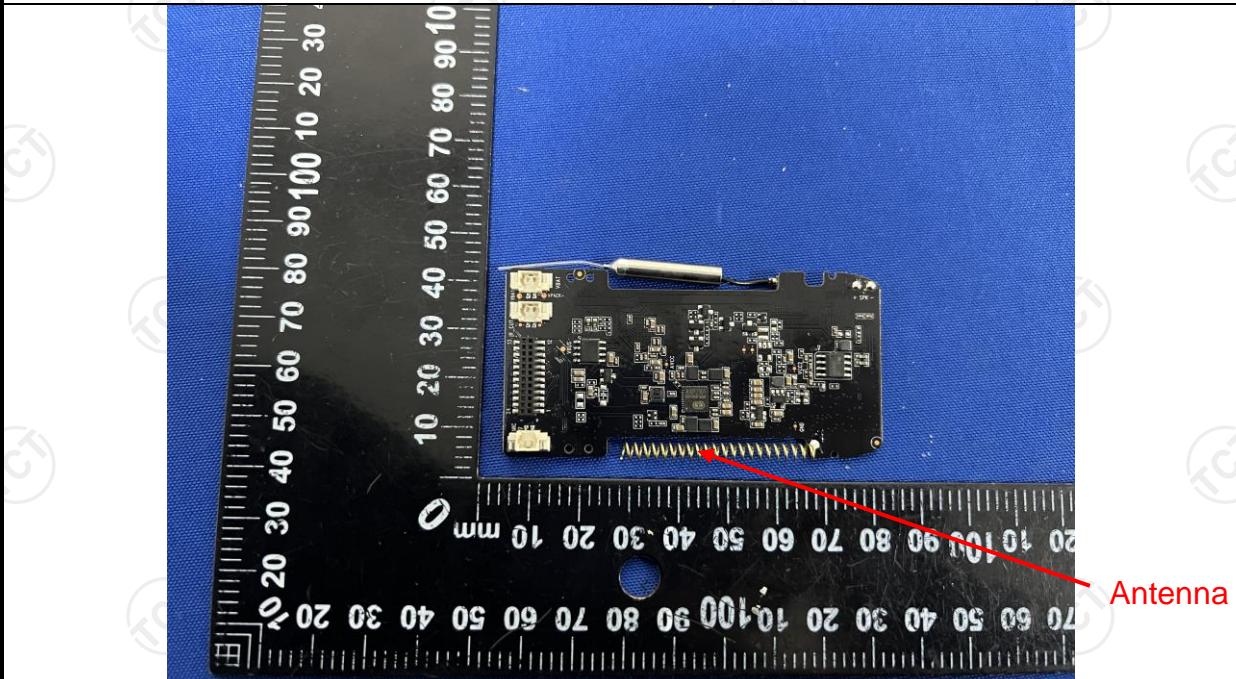
4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 1.08 dB
3	Spurious emissions, conducted	± 2.94 dB
4	Occupied Bandwidth	± 0.25 KHz
5	All emissions, radiated(<1 GHz)	± 4.56 dB
6	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
7	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
8	Temperature	$\pm 0.1^\circ$ C
9	Humidity	$\pm 1.0\%$

5. Test Results and Measurement Data

5.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, 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.	
E.U.T Antenna:	
	The antenna is spring antenna which permanently attached, and the best case gain of the antenna is -1.74dBi
	

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p>Reference Plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement. 														
Test Result:	PASS														

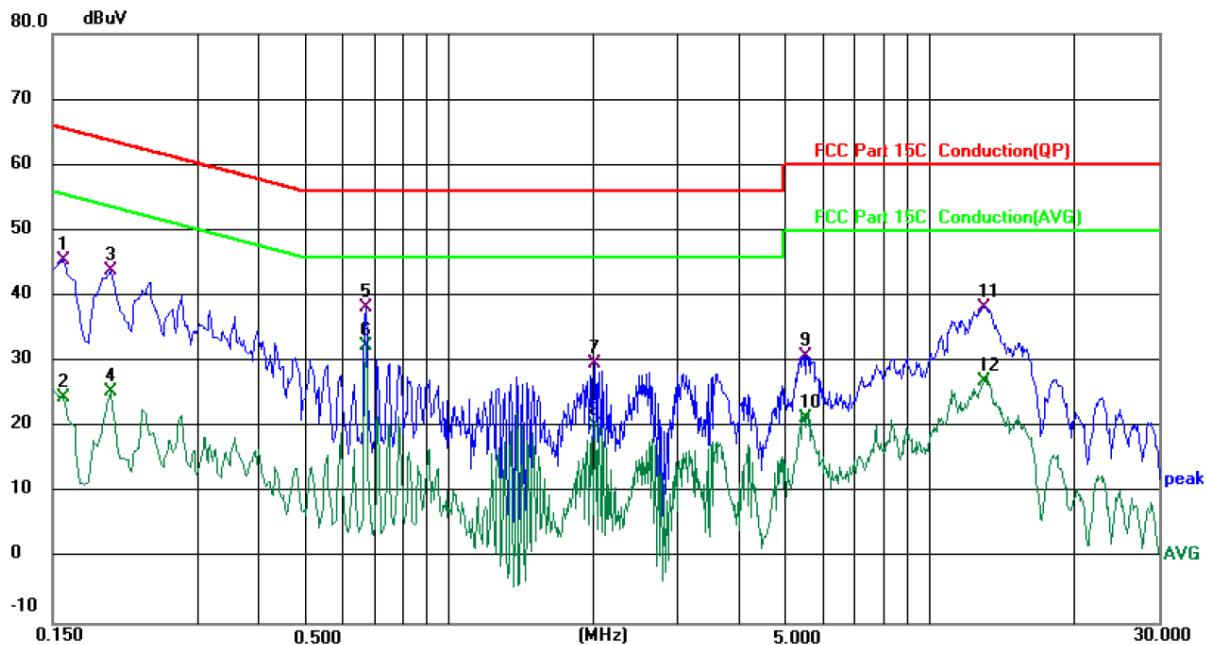
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025
Line-5	TCT	CE-05	/	Jun. 27, 2024	Jun. 26, 2025
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/	/

5.2.1. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room Phase: **L1** Temperature: 22.8 (°C) Humidity: 49 %

Limit: FCC Part 15C Conduction(QP) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level dB μ V	Factor dB	ment dB μ V				
1		0.1580	35.55	9.95	45.50	65.57	-20.07	QP	
2		0.1580	14.52	9.95	24.47	55.57	-31.10	AVG	
3		0.1980	34.02	9.92	43.94	63.69	-19.75	QP	
4		0.1980	15.50	9.92	25.42	53.69	-28.27	AVG	
5		0.6740	28.46	9.90	38.36	56.00	-17.64	QP	
6	*	0.6740	22.54	9.90	32.44	46.00	-13.56	AVG	
7		2.0178	19.78	10.02	29.80	56.00	-26.20	QP	
8		2.0178	10.26	10.02	20.28	46.00	-25.72	AVG	
9		5.5419	20.76	10.17	30.93	60.00	-29.07	QP	
10		5.5419	11.16	10.17	21.33	50.00	-28.67	AVG	
11		13.0180	28.00	10.37	38.37	60.00	-21.63	QP	
12		13.0180	16.71	10.37	27.08	50.00	-22.92	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

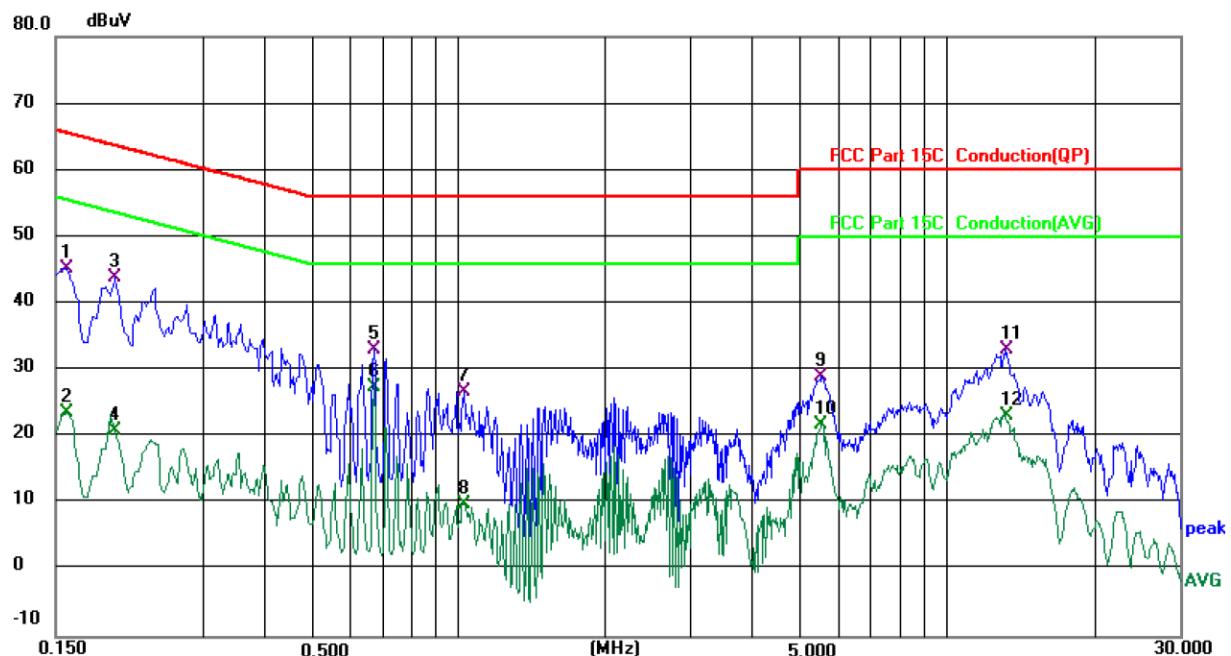
Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 22.8 (°C)

Humidity: 49 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Comment
			dB μ V	dB	dB μ V	dB μ V	dB	
1	0.1580	35.37	9.94	45.31	65.57	-20.26	QP	
2	0.1580	13.77	9.94	23.71	55.57	-31.86	AVG	
3	0.1980	33.85	9.93	43.78	63.69	-19.91	QP	
4	0.1980	10.96	9.93	20.89	53.69	-32.80	AVG	
5	0.6740	23.06	9.94	33.00	56.00	-23.00	QP	
6 *	0.6740	17.51	9.94	27.45	46.00	-18.55	AVG	
7	1.0300	16.87	9.97	26.84	56.00	-29.16	QP	
8	1.0300	-0.12	9.97	9.85	46.00	-36.15	AVG	
9	5.5419	18.96	10.17	29.13	60.00	-30.87	QP	
10	5.5419	11.69	10.17	21.86	50.00	-28.14	AVG	
11	13.2219	22.66	10.42	33.08	60.00	-26.92	QP	
12	13.2219	12.88	10.42	23.30	50.00	-26.70	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Method:	ANSI C63.10:2020				
Frequency Range:	9 kHz to 5 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				

Test setup:	<p>For radiated emissions below 30MHz</p>
	<p>30MHz to 1GHz</p>
	<p>Above 1GHz</p>
	<p>Test Mode: Refer to Item 3.1</p> <p>Test results: PASS</p>

5.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250
Horn Antenna	Schwarzbeck	BBHA 9120D

*Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$;

for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dB $\mu\text{V/m}$)	Filed Strength of Spurious Emission(dB $\mu\text{V/m}$)
433.92	80.83	60.83

Note:

1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
2. According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is 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 Section 15.209, whichever limit permits one higher field strength.

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dB μ V) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula $Ld1 = Ld2 * (d2/d1)$

5.3.3. Test Instruments

Radiated Emission Test Site (966)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMCA	FA-03A2 RE+	1.1.4.2	/	/

5.3.4. Test Data

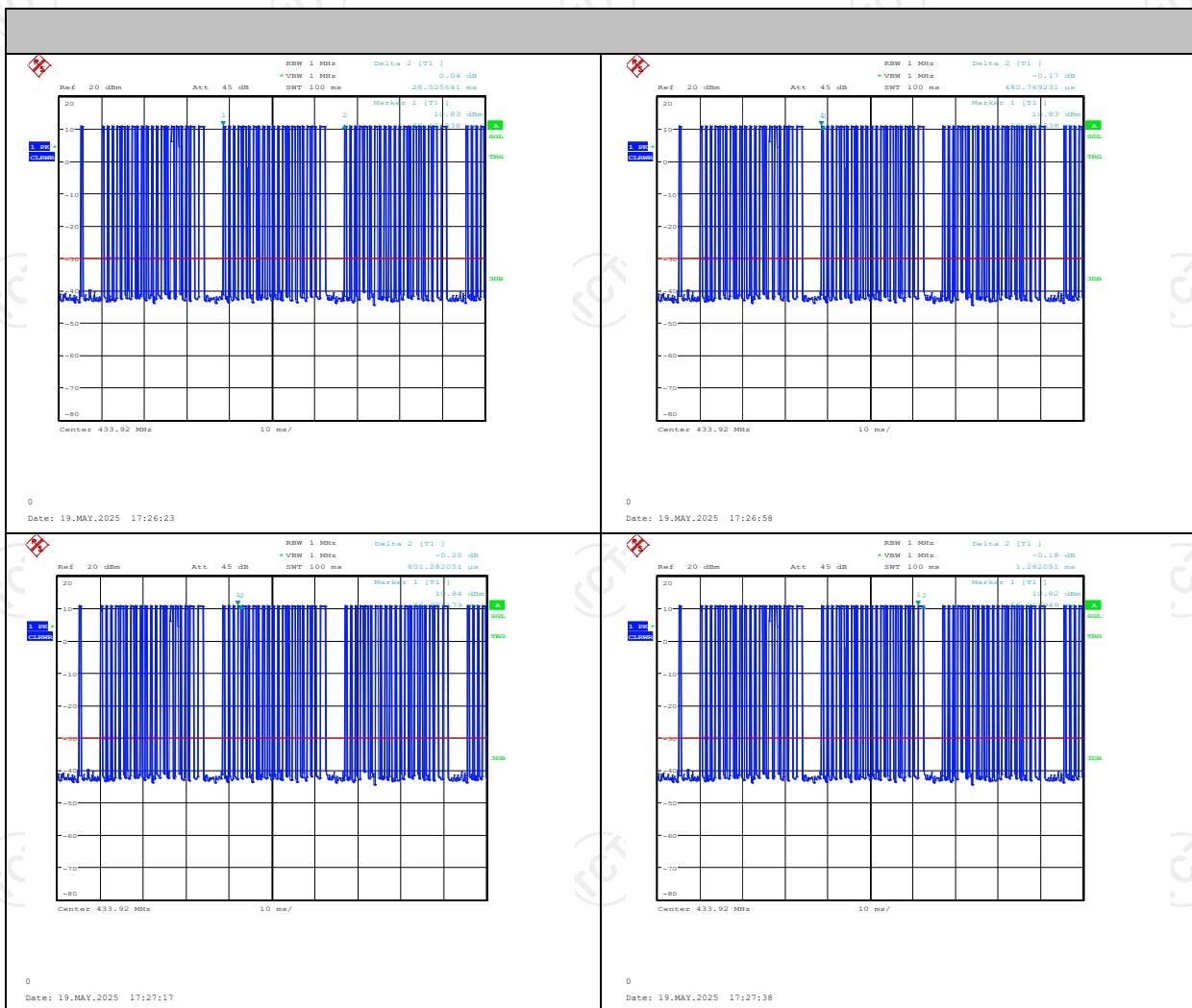
Duty Cycle Test Data

433.92MHz:

Total time (ms)	Effective time (ms)	Duty Cycle	AV Factor(dB)
28.53	13.44	0.47	-6.56

Note:

Effective time= $0.48*12+0.80*8+1.28*1=13.44ms$
 Duty Cycle= Effective time/ Total time=0.47
 AV Factor = $20 \log(\text{Duty Cycle})$ = -6.56



Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
433.92	77.56	H	100.83	-23.27
433.92	77.64	V	100.83	-23.19

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
433.92	77.56	-6.56	H	71.00	80.83	-9.83
433.92	77.64	-6.56	V	71.08	80.83	-9.75

Harmonics and Spurious Emissions

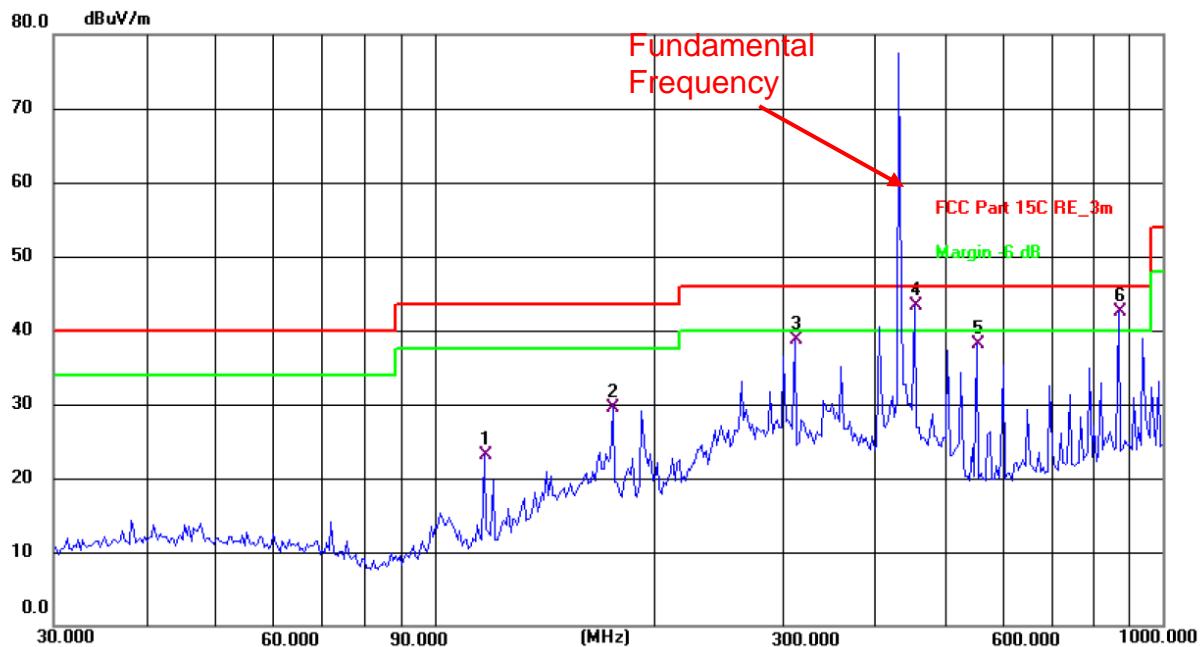
Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Below 1GHz



Site: 3m Anechoic Chamber1

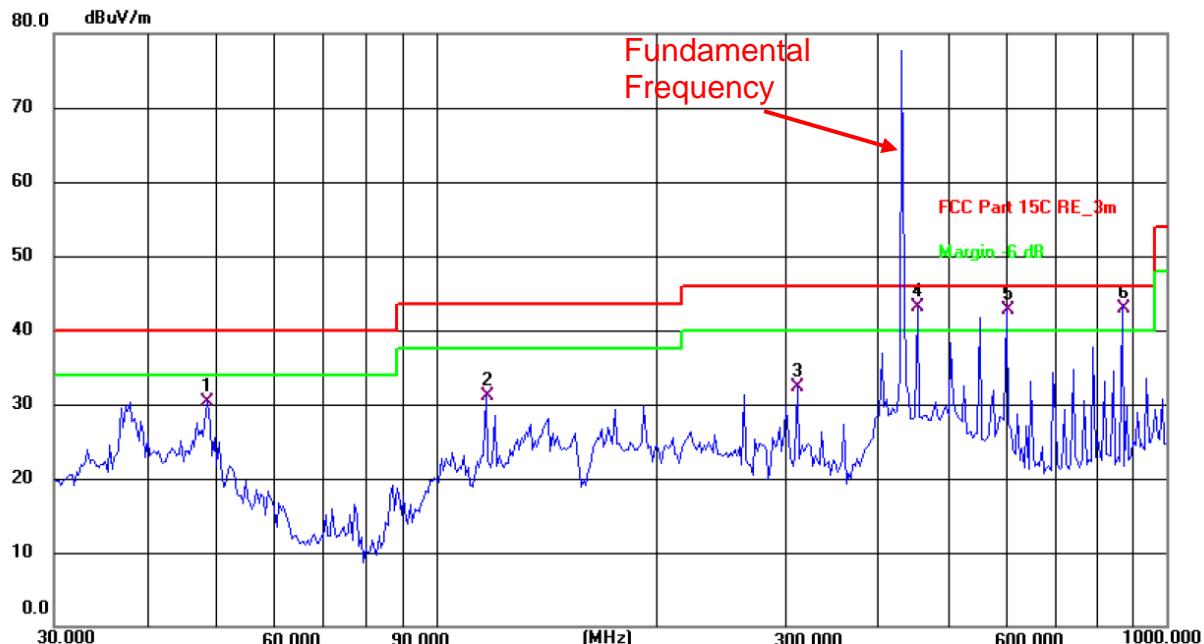
Polarization: **Horizontal**

Temperature: 24.3(C) Humidity: 55 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	116.9494	36.82	-13.72	23.10	43.50	-20.40	QP	P	
2	175.6516	42.14	-12.55	29.59	43.50	-13.91	QP	P	
3	312.1794	49.45	-10.79	38.66	46.00	-7.34	QP	P	
4 *	455.9058	51.52	-8.22	43.30	46.00	-2.70	QP	P	
5	554.8254	44.74	-6.57	38.17	46.00	-7.83	QP	P	
6 !	869.1302	44.44	-1.86	42.58	46.00	-3.42	QP	P	



Site: 3m Anechoic Chamber1

Polarization: **Vertical**

Temperature: 24.3(C) Humidity: 55 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	P/F	Remark
1	48.6719	42.53	-12.25	30.28	40.00	-9.72	QP	P	
2	116.9493	44.88	-13.72	31.16	43.50	-12.34	QP	P	
3	312.1792	43.12	-10.78	32.34	46.00	-13.66	QP	P	
4 *	455.9057	51.32	-8.22	43.10	46.00	-2.90	QP	P	
5 !	603.5390	47.79	-5.03	42.76	46.00	-3.24	QP	P	
6 !	869.1301	44.86	-1.86	43.00	46.00	-3.00	QP	P	

Note: 1. The low frequency, which started from 9KHz-30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Freq. = Emission frequency in MHz

Measurement (dB μ V/m) = Reading level (dB μ V) + Corr. Factor (dB)

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dB μ V/m) = Limit stated in standard

Margin (dB) = Measurement (dB μ V/m) – Limits (dB μ V/m)

* is meaning the worst frequency has been tested in the test frequency range second harmonic

3. The limit value of the fundamental frequency is 100.83dB μ V/m.

Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dB _u V)	Correction Factor (dB/m)	Level PK (dB _u V/m)	Limit Line PK (dB _u V/m)	Over Limit (dB)	Polarization
1301.76	60.36	-18.59	41.77	74.00	-32.23	Vertical
1735.68	51.81	-18.14	33.67	80.83	-47.16	Vertical
2169.60	49.02	-17.61	31.41	80.83	-49.42	Vertical
2603.52	46.33	-16.45	29.88	80.83	-50.95	Vertical
3037.44	46.87	-14.84	32.03	80.83	-48.80	Vertical
3471.36	44.44	-14.17	30.27	80.83	-50.56	Vertical
1301.76	59.02	-18.59	40.43	74.00	-33.57	Horizontal
1735.68	50.98	-18.14	32.84	80.83	-47.99	Horizontal
2169.60	49.47	-17.61	31.86	80.83	-48.97	Horizontal
2603.52	46.02	-16.45	29.57	80.83	-51.26	Horizontal
3037.44	45.89	-14.84	31.05	80.83	-49.78	Horizontal
3471.36	43.01	-14.17	28.84	80.83	-51.99	Horizontal

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (dB_uV/m)- limit (dB_uV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “*” in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

5.4. Manually Activated Transmitter

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a)(1)
Test Method:	ANSI C63.10:2020
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings. RBW = 100KHz, VBW\geqRBW; Span = 0; Sweep Time > T(on)+5S; Detector function = peak; 4. Measure and record the results in the test report.
Test setup:	 <p>The diagram illustrates the test setup. A green Spectrum Analyzer is connected to a yellow EUT (Equipment Under Test) via a cable with two circular ports. The analyzer has a screen and a control panel. The EUT is a simple rectangular box.</p>
Test Mode:	Refer to Item 3.1
Test results:	PASS

5.4.2. Test Instruments

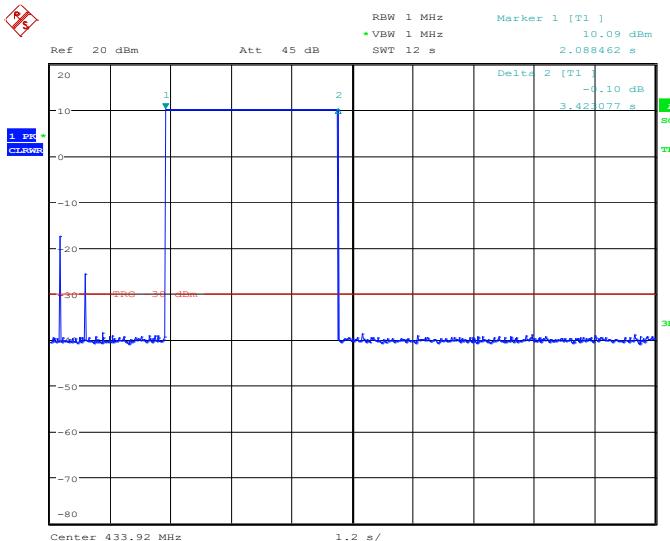
Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024	Jun. 26, 2025

5.4.3. Test data

Test Channel (MHz)	Manually Activated Transmitter (s)	Limit (s)	Conclusion
433.92	3.42	5	PASS

Test plots as follows:

433.92MHz



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5.5. Occupied Bandwidth

5.5.1. Test Specification

5.5.2. Test Instruments

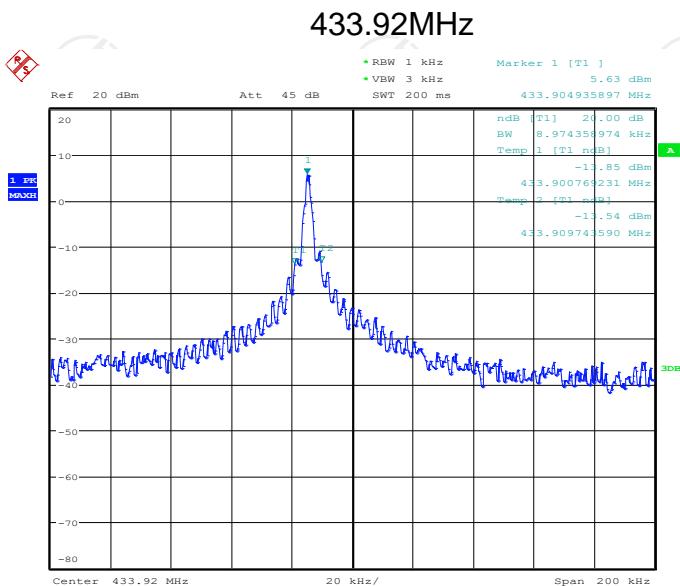
Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024	Jun. 26, 2025

5.5.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
433.92	8.97	1084.80	PASS

Note: Limit = 433.92MHz *0.25% = 1084.80 kHz

Test plots as follows:



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Appendix A: Photographs of Test Setup

Please refer to document Appendix No.: TCT250515E006-A

Appendix B: Photographs of EUT

Please refer to document Appendix No.: TCT250515E006-B & TCT250515E006-C

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