

CTM Maison Elite Inc.

TEST REPORT

SCOPE OF WORK

FCC TESTING-CTMVCCI21

REPORT NUMBER

211208049SZN-001

ISSUE DATE

April 15, 2022

[REVISED DATE]

[-----]

PAGES

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CTM Maison Elite Inc.

Application
For
Certification

FCC ID: 2A3XWCTMVCCI21

Voice Control Centre (VCC I)

Model: CTMVCCI21

Brand Name: FORNO VOCE

2.4GHz Transceiver

Report No.: 211208049SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-19]

Prepared and Checked by:

Approved by:

Rode Liu
Project Engineer

Peter Kang
Senior Technical Supervisor
Date: April 15, 2022

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

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1.0 **Summary of Test Result**

Applicant: CTM Maison Elite Inc.

Applicant Address: 11420 Albert Hudon, Montreal, Quebec, H1G 3J6

Manufacturer: CTM Maison Elite Inc.

Manufacturer Address: 11420 Albert Hudon, Montreal, Quebec, H1G 3J6

MODEL: CTMVCCI21

FCC ID: 2A3XWCTMVCCI21

Test Specification	Reference	Results
Transmitter Radiated Emission	15.249 &15.209 &15.205	Pass
Conducted Emission	15.207	Pass
Band edge	15.249 &15.209 &15.205	Pass
20dB Bandwidth	15.215(c)	Pass

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is a Voice Control Centre (VCC I) with Bluetooth 4.2 (Single Mode BLE) function operating in 2402-2480MHz. The EUT is powered by DC 5V/500mA through an adapter, which has an USB type A port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 0dBi Max

Bluetooth Version: 5.0 (Single Mode BLE)

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the Voice Control Centre (VCC I) which has Bluetooth function and 433MHz Transceiver, and related report for FCC is subjected to report number: 211208049SZN-002.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).

3.0 System Test Configuration

3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The EUT is powered by DC 5V/500mA through an adapter, which has an USB type A port during the test, only the worst data was reported in this report.

All packets DH1, DH3 & DH5 mode in modulation type GFSK were tested and only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the bottom of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Section 4.

The EUT and transmitting antenna was centered on the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during testing was designed to exercise the various system components in a manner similar to a typical use.

3.3 Special Accessories

No special accessories used.

3.4 Equipment Modification

Any modifications installed previous to testing by CTM Maison Elite Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

3.6 Support Equipment List and Description

Description	Manufacturer	Remark
Adapter (Provided by Intertek)	XIAOMI	MDY-08-EO

4.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

4.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

4.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB/m
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB/m} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ AV &= -10 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

4.1.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

4.1.3 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Worst Case Radiated Emission
at
867.789 MHz

Judgement: Passed by 11.7 dB

TEST PERSONNEL:

Sign on file

Rode Liu, Project Engineer
Typed/Printed Name

14 April 2022
Date

Applicant: CTM Maison Elite Inc.

Date of Test: 14 April 2022

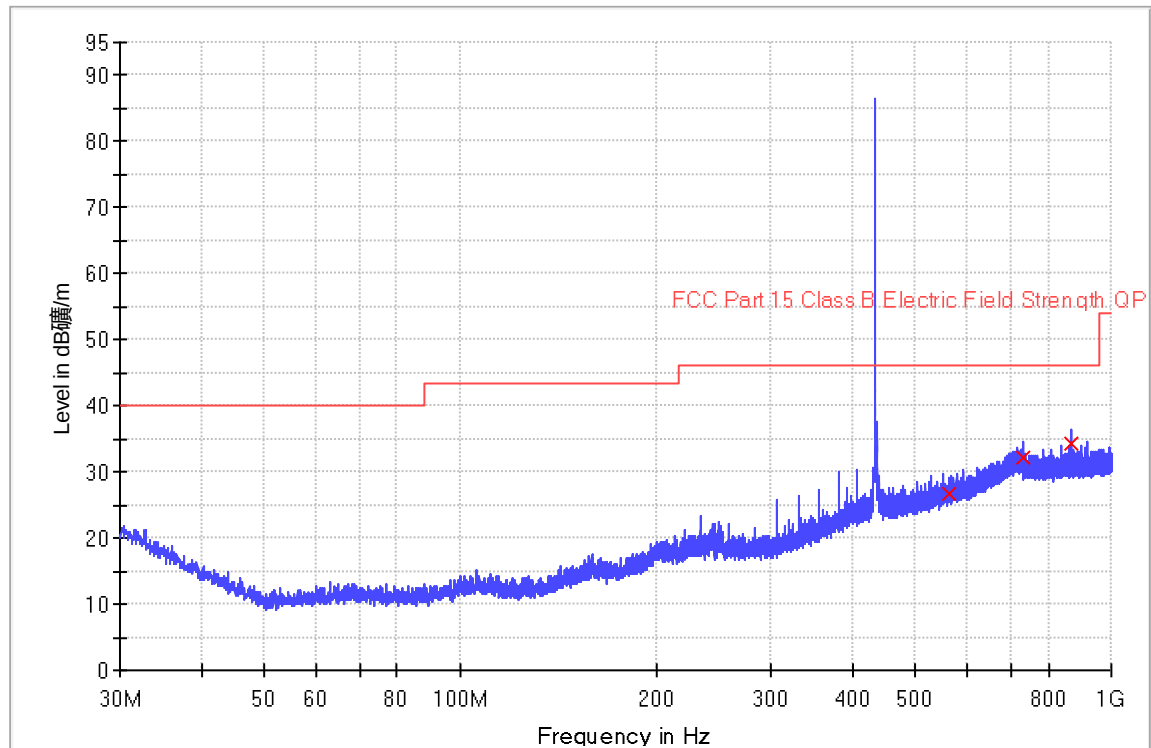
Worst Case Operating Mode:

Model: CTMVCCI21

Simultaneous transmitting

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
565.246000	26.6	1000.0	120.000	H	27.9	19.4	46.0
729.952000	32.2	1000.0	120.000	H	32.0	13.8	46.0
867.789000	34.3	1000.0	120.000	H	31.9	11.7	46.0

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Limit Line (dBμV/m) – Level (dBμV/m)
4. The frequency point exceeding the limit is the dominant frequency of 433 emission.

Applicant: CTM Maison Elite Inc.

Date of Test: 14 April 2022

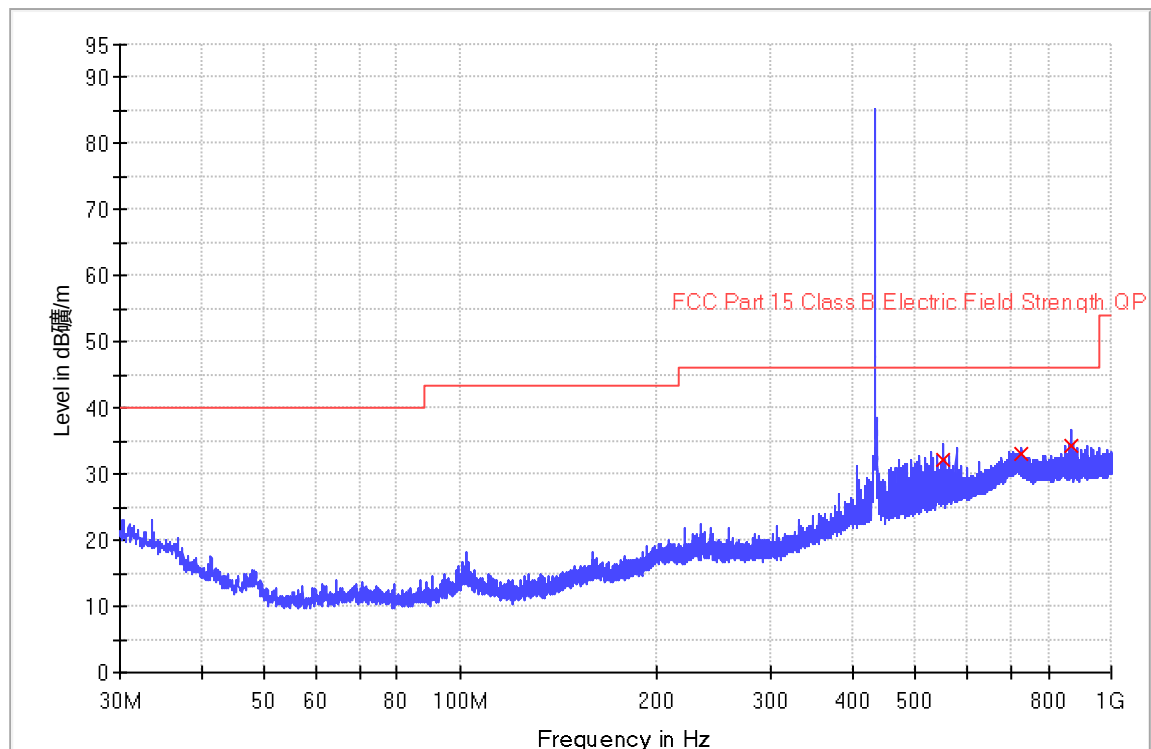
Worst Case Operating Mode:

Model: CTMVCCI21

Simultaneous transmitting

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
552.960000	32.2	1000.0	120.000	V	27.6	13.8	46.0
728.400000	33.0	1000.0	120.000	V	32.0	13.0	46.0
867.840000	34.3	1000.0	120.000	V	31.9	11.7	46.0

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Limit Line (dBμV/m) – Level (dBμV/m)
4. The frequency point exceeding the limit is the dominant frequency of 433 emission.

4.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission
at
4804.000 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 5.0 dB

TEST PERSONNEL:

Sign on file

Rode Liu, Project Engineer

Typed/Printed Name

14 April 2022

Date

Applicant: CTM Maison Elite Inc.

Date of Test: 14 April 2022

Worst Case Operating Mode:

Model: CTMVCCI21

Transmitting

Table 1

Radiated Emissions

(2402MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2402.000	108.5	36.7	28.1	99.9	114.0	-14.1
Vertical	4804.000	58.6	36.7	35.5	57.4	74.0	-16.6
Vertical	7206.000	53.8	36.1	36.5	54.2	74.0	-19.8
Vertical	9608.000	51.3	36.2	37.0	52.1	74.0	-21.9

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2402.000	94.0	36.7	28.1	85.4	94.0	-8.6
Vertical	4804.000	50.2	36.7	35.5	49.0	54.0	-5.0
Vertical	7206.000	45.8	36.1	36.5	46.2	54.0	-7.8
Vertical	9608.000	44.1	36.2	37.0	44.9	54.0	-9.1

Notes: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Rode Liu

Applicant: CTM Maison Elite Inc.

Date of Test: 14 April 2022

Worst Case Operating Mode:

Model: CTMVCCI21

Transmitting

Table 2

Radiated Emissions

(2440MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2440.000	107.2	36.7	28.1	98.6	114.0	-15.4
Vertical	4880.000	58.0	36.7	35.5	56.8	74.0	-17.2
Vertical	7320.000	54.0	36.1	37.2	55.1	74.0	-18.9
Vertical	9760.000	52.9	36.2	37.0	53.7	74.0	-20.3

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2440.000	93.3	36.7	28.1	84.7	94.0	-9.3
Vertical	4880.000	49.8	36.7	35.5	48.6	54.0	-5.4
Vertical	7320.000	45.1	36.1	37.2	46.2	54.0	-7.8
Vertical	9760.000	43.0	36.2	37.0	43.8	54.0	-10.2

Notes: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Rode Liu

Applicant: CTM Maison Elite Inc.

Date of Test: 14 April 2022

Worst Case Operating Mode:

Model: CTMVCCI21

Transmitting

Table 3

Radiated Emissions

(2480MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2480.000	108.4	36.7	28.1	99.8	114.0	-14.2
Vertical	4960.000	57.1	36.7	35.5	55.9	74.0	-18.1
Vertical	7440.000	50.4	36.1	37.2	51.5	74.0	-22.5
Vertical	9920.000	50.8	36.3	38.9	53.4	74.0	-20.6

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	2480.000	94.8	36.7	28.1	86.2	94.0	-7.8
Vertical	4960.000	49.4	36.7	35.5	48.2	54.0	-5.8
Vertical	7440.000	44.2	36.1	37.2	45.3	54.0	-8.7
Vertical	9920.000	41.2	36.3	38.9	43.8	54.0	-10.2

Notes: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Rode Liu

4.2 Conducted Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

4.2.1 Conducted Emission

Worst Case Conducted Configuration
at
0.306MHz

Judgement: Passed by 16.2dB margin

TEST PERSONNEL:

Sign on file

Rode Liu, Project Engineer
Typed/Printed Name

10 March 2022
Date

Applicant: CTM Maison Elite Inc.

Date of Test: 10 March 2022

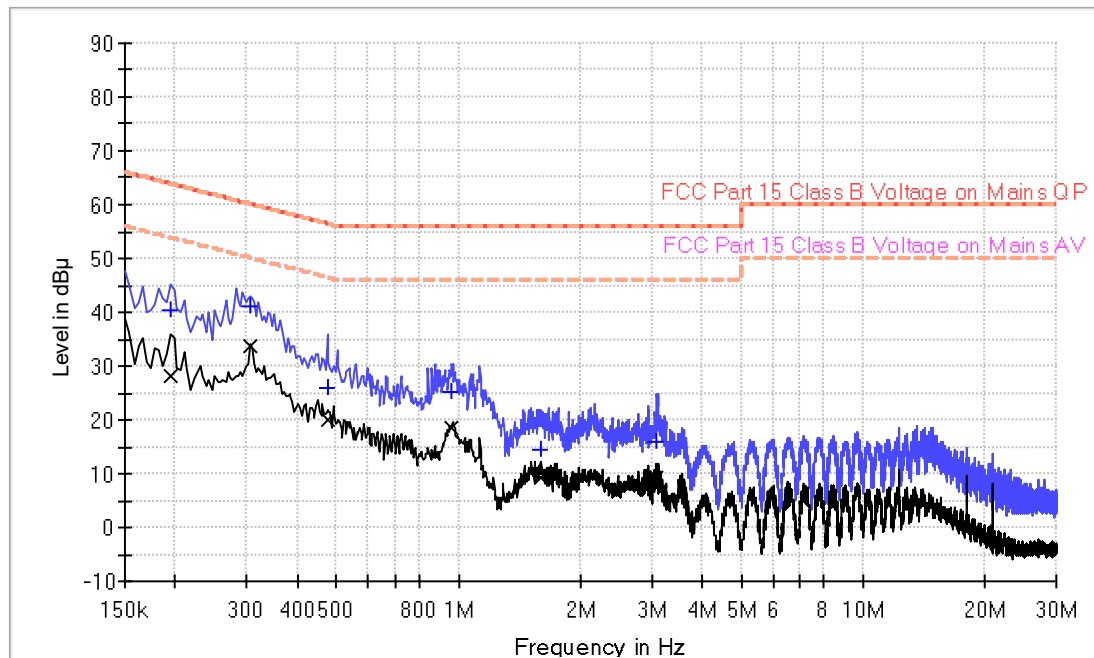
Model: CTMVCCI21

Worst Case Operating Mode: Simultaneous transmitting

Phase: Live

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.194000	40.3	9.000	L1	9.6	23.6	63.9
0.306000	41.0	9.000	L1	9.6	19.1	60.1
0.474000	25.8	9.000	L1	9.6	30.6	56.4
0.962000	25.1	9.000	L1	9.6	30.9	56.0
1.606000	14.6	9.000	L1	9.6	41.4	56.0
3.094000	15.9	9.000	L1	9.7	40.1	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.194000	28.3	9.000	L1	9.6	25.6	53.9
0.306000	33.9	9.000	L1	9.6	16.2	50.1
0.474000	20.1	9.000	L1	9.6	26.3	46.4
0.962000	18.6	9.000	L1	9.6	27.4	46.0
1.606000	9.2	9.000	L1	9.6	36.8	46.0
3.094000	9.2	9.000	L1	9.7	36.8	46.0

Applicant: CTM Maison Elite Inc.

Date of Test: 10 March 2022

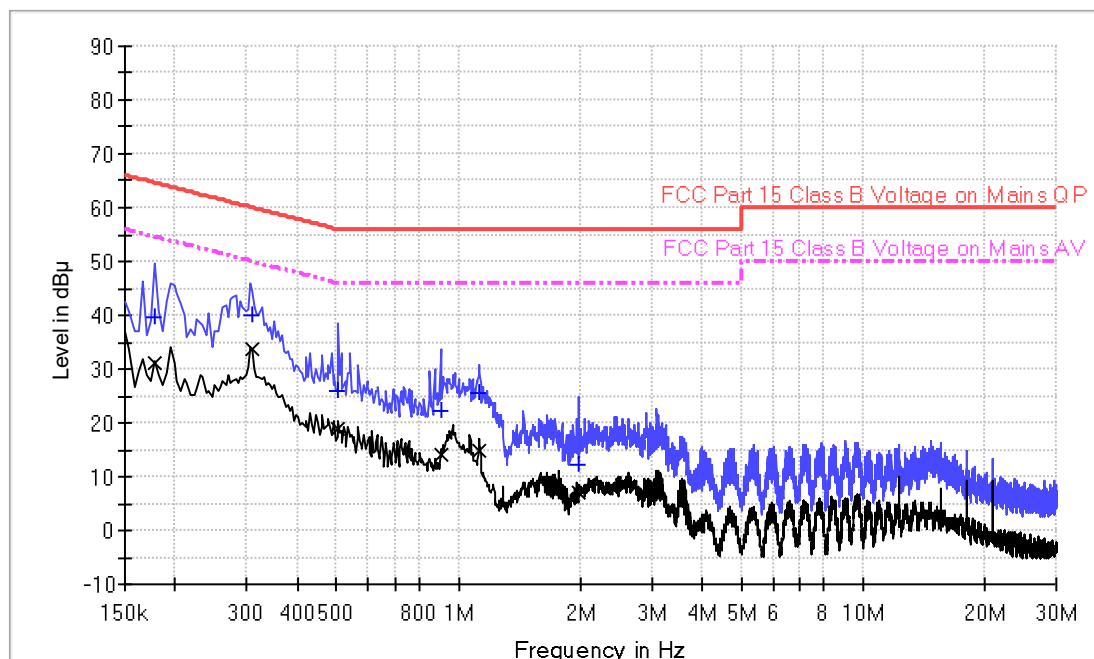
Model: CTMVCCI21

Worst Case Operating Mode: Simultaneous transmitting

Phase: Neutral

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.178000	39.7	9.000	N	9.5	24.9	64.6
0.310000	40.2	9.000	N	9.5	19.8	60.0
0.506000	26.0	9.000	N	9.5	30.0	56.0
0.906000	22.3	9.000	N	9.5	33.7	56.0
1.130000	25.6	9.000	N	9.5	30.4	56.0
1.982000	12.4	9.000	N	9.5	43.6	56.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.178000	31.2	9.000	N	9.5	23.4	54.6
0.310000	33.6	9.000	N	9.5	16.4	50.0
0.506000	19.0	9.000	N	9.5	27.0	46.0
0.906000	14.0	9.000	N	9.5	32.0	46.0
1.130000	14.8	9.000	N	9.5	31.2	46.0
1.982000	7.1	9.000	N	9.5	38.9	46.0

5.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labelling

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, 20dB Bandwidth, the test procedure and calculation of factor such as pulse desensitization.

9.1 Bandedge Plot

The test plots are attached as below. From the below plots, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

Peak Measurement

Bandedge compliance is determined by applying marker-delta method, i.e (Bandedge Plot).

(i) Lowest frequency channel (2402MHz):

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

$$\begin{aligned} &= 99.90 \text{ dB}\mu\text{v/m} - 41.95 \text{ dB} \\ &= 57.95 \text{ dB}\mu\text{v/m} \end{aligned}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

$$\begin{aligned} &= 85.4 \text{ dB}\mu\text{v/m} - 41.95 \text{ dB} \\ &= 43.45 \text{ dB}\mu\text{v/m} \end{aligned}$$

(ii) Highest frequency channel (2480MHz):

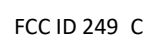
Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

$$\begin{aligned} &= 99.8 \text{ dB}\mu\text{v/m} - 40.86 \text{ dB} \\ &= 58.94 \text{ dB}\mu\text{v/m} \end{aligned}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the bandedge plot

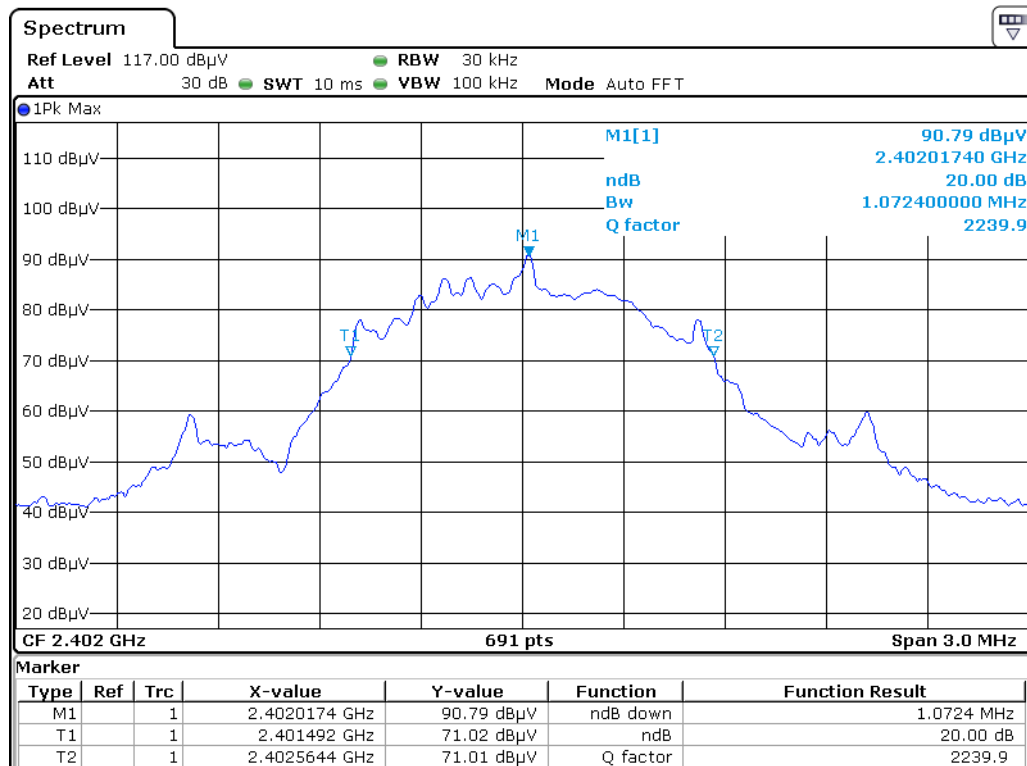
$$\begin{aligned} &= 86.2 \text{ dB}\mu\text{v/m} - 40.86 \text{ dB} \\ &= 45.34 \text{ dB}\mu\text{v/m} \end{aligned}$$

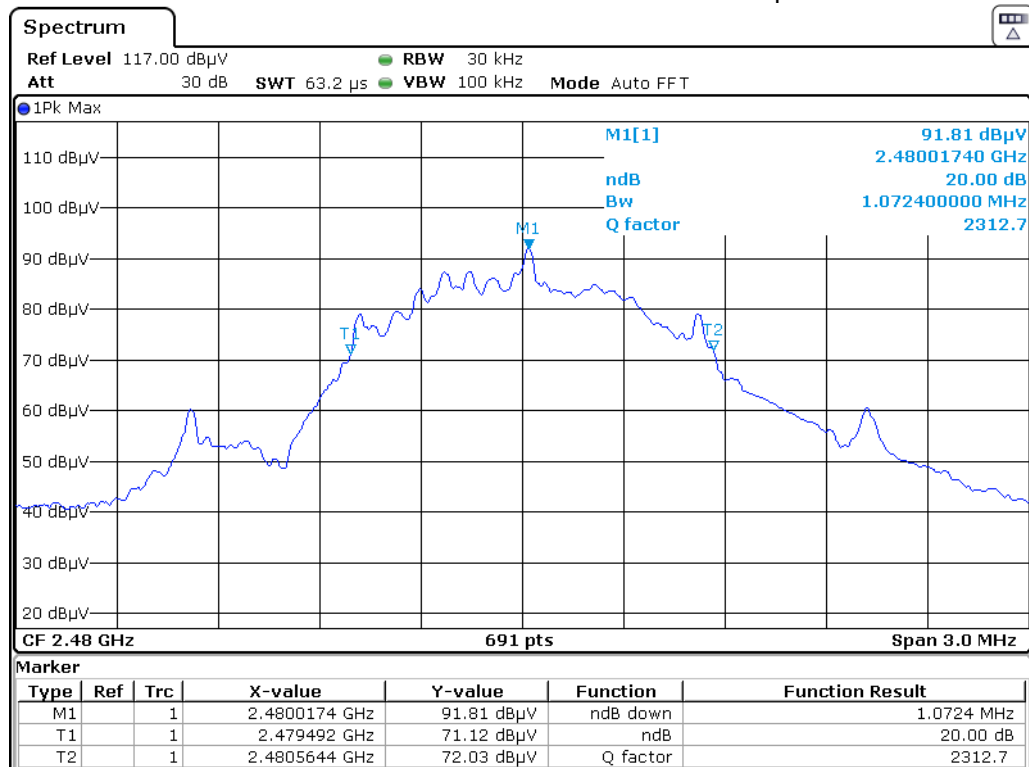
The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dBμv/m (Peak Limit) and 54dBμv/m (Average Limit).



9.2 20dB bandwidth

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.





9.3 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

9.4 Transmitter Duty Cycle Calculation, FCC Rule 15.35(b, c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

9.5 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjust through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 9.4.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.

9.5 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.10 - 2013.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. Above 1000 MHz, a resolution bandwidth of 1 MHz is used (RBW 3MHz used for fundamental emission).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	Biconilog Antenna	ETS	3142E	00166158	2021-08-04	2024-08-04
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2023-05-18
SZ061-08	Horn Antenna	ETS	3115	00092346	2021-09-05	2024-09-05
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2019-08-13	2022-08-13
SZ056-03	Spectrum Analyzer	R&S	FSP30	101148	2021-05-10	2022-05-10
SZ185-03	EMI Receiver	R & S	ESCI	100547	2021-12-20	2022-12-20
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	2021-05-10	2022-05-10
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2021-12-12	2024-12-12
SZ062-02	RF Cable	RADIAL	RG 213U	--	2021-11-20	2022-05-20
SZ062-05	RF Cable	RADIAL	0.04-26.5GHz	--	2021-11-20	2022-05-20
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	--	2021-11-20	2022-05-20
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	2021-05-11	2022-05-11
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2021-07-12	2022-07-12
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	2021-05-12	2022-05-12
SZ188-03	Shielding Room	ETS	RFD-100	4100	2020-01-07	2023-01-07
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	2021-10-26	2022-10-26

***** End of Report*****