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Yongin-si, Gyeonggi-do 17036, Korea (Republic of)  
Main: +82-31-322-6767 / Fax: +82-31-322-6768

**Test report No.:**  
TREFCC24-0078

# FCC CERTIFICATION TEST REPORT

**Test report No.** : TREFCC24-0078  
**Applicant** : WI.Platt Co., Ltd.  
**Address** : 402, 106, Techno 2-ro, Yuseong-gu, Daejeon,  
Republic of Korea  
**Manufacturer** : WI.Platt Co., Ltd.  
**Address** : 402, 106, Techno 2-ro, Yuseong-gu, Daejeon,  
Republic of Korea  
**Type of equipment** : Remote Data Transmitter  
**Model name** : Sonic M2  
**Variant model name** : Not applicable  
**FCC ID** : 2BL33SONICM2  
**Date of incoming** : October 18, 2024  
**Date of test** : November 07, 2024  
**Date of issue** : November 11, 2024  
**Test standards** : ANSI C 63.4-2014  
47 CFR Part 15 Subpart B  
**Type of device** : All other devices  
**Test Result** : ☒ Complied ☐ Not complied

## Summary

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of Lab-T, Inc.

**Prepared by**

JiYeon Kim / EMC Test Engineer

**Approved by**

CheolHo, Lee / Technical manager

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This test report is not related to KOLAS.

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## 1. Revision history

Issued report No.	Version	Issued date	Revision
TREFCC24-0078	Rev. 00	November 11, 2024	Original








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## 2. Information of test laboratory

<b>Corporate name</b>	Lab-T, Inc.
<b>Representative</b>	Duke (Jongyoung) Kim
<b>Address</b>	2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si
	Gyeonggi-do 17036, Korea (Republic of)
<b>Telephone</b>	+82-31-322-6767
<b>Fax</b>	+82-31-322-6768
<b>E-mail</b>	<a href="mailto:info@lab-t.net">info@lab-t.net</a>

<b>Test site</b>	Building L, A, T
<b>Address</b>	2182-40, 2182-44, 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu
	Yongin-si, Gyeonggi-do 17036, Korea (Republic of)

\* Lab-T, Inc. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	KT703	
Site filing	USA	FCC	KR0159	
	Japan	VCCI	R-14282, C-14764 T-12276, G-10886 G-10887	
	Canada	Industry Canada (IC)	22000	
Certification	Korea	KC	KR0159 (RRA) KC2019-1 (KATS)	
	EU	TUV SUD	CARAT 093449 0009	
	USA	UL	1706-E-197	

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### 3. Applicant information

<b>Applicant</b>	WI.Plat Co., Ltd.
<b>Address</b>	402, 106, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea

<b>Manufacturer</b>	WI.Plat Co., Ltd.
<b>Address</b>	402, 106, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea
<b>Country of origin</b>	Korea

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## 4. Description of EUT (Equipment under test)

### 4.1 Product description

<b>Name of EUT</b>	Remote Data Transmitter
<b>Model name</b>	Sonic M2

### 4.2 Product specification

Rated power : 3.7 V (Battery power)

### 4.3 EUT internal operating frequency

Frequency	Description	Frequency	Description
66 MHz	-	-	-

### 4.4 Information of additional model

Division	Model name	Difference
-	-	-

### 4.5 Peripheral equipment

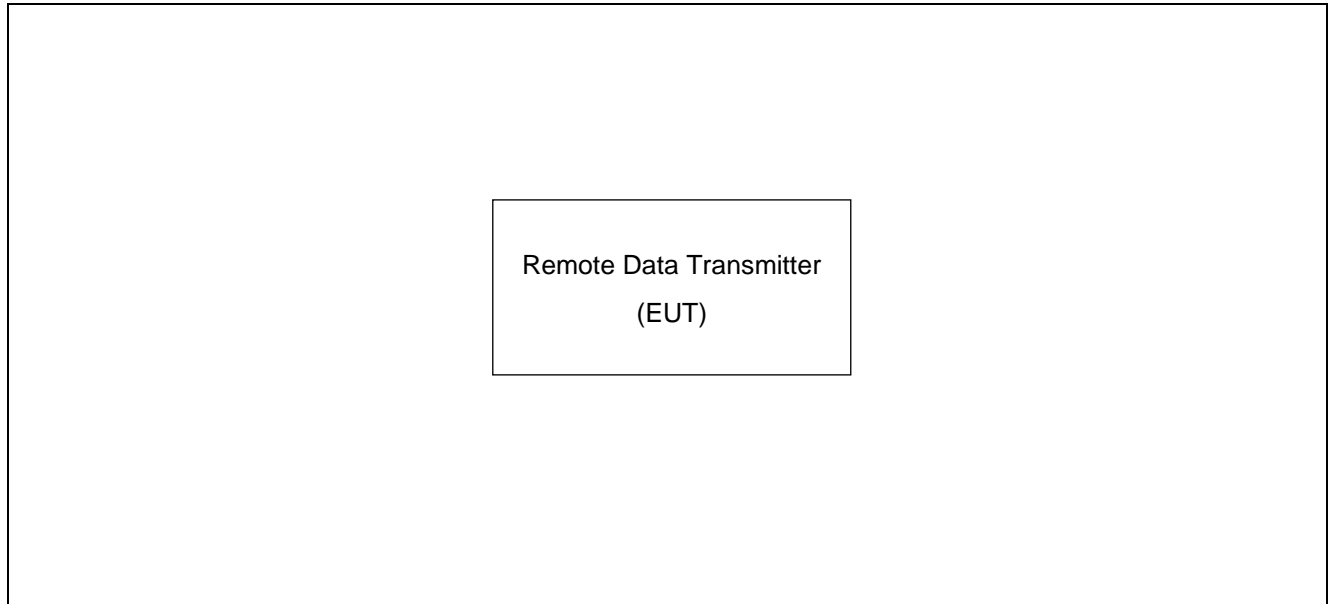
Product	Model name	Serial No.	Manufacturer
Remote Data Transmitter (EUT)	Sonic M2	-	WI.Plac Co., Ltd. / Korea
Adapter	CCGAN65UK	-	Shenzhen Times Innovation Technology Co., Ltd. / China

### 4.6 Connection cable

Start-up device		Connected end device		Cable specification	
Name	I/O port	Name	I/O port	Length (m)	Spec.
-	-	-	-	-	-

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## 4.7 Test setup and configuration



## 4.8 EUT operating test mode(s)

- The EUT was powered and tested using battery power.

## 4.9 EUT modification

- Not modification.

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## 5. Test standard

### 5.1 Standard

Test item	Applied standard	Result
Conducted emission	47 CFR FCC Part 15 Subpart B §15.107 (Class A)	N/A (*Note 1)
Radiated emission (30 MHz ~ 1 000 MHz)	47 CFR FCC Part 15 Subpart B §15.109 (Class A)	C
Radiated emission (Above 1 GHz)	47 CFR FCC Part 15 Subpart B §15.109 (Class A)	C
* C=Comply, N/A=Not applicable * Note1 : The test excluded as EUT is using Battery Power.		

#### [Measurement uncertainty]

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Test item		Uncertainty	Confidence level of approximately
Radiated emission (30 MHz to 1 000 MHz)	30 MHz ~ 1 000 MHz	4.80 dB	Least about 95 %, k = 2
Radiated emission (Above 1 GHz)	Above 1 GHz	5.06 dB	Least about 95 %, k = 2



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## 6. Emission test result

### 6.1 Conducted emission

Test standard	47 CFR FCC Part 15 Subpart B §15.107
Test date	-
Test facility	-
Test voltage	-
Temperature	-
Relative humidity	-
Test result	Not applicable

#### 6.1.1 Measurement procedure

If the EUT is table top equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN & ISN, if any. Unused measuring port of the LISN & ISN was resistively terminated by 50 ohm terminator. The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has quasi-peak detector and CISPR average detector. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

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### 6.1.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. date
-	-	-	-	-

\* All test equipment used is calibrated on a regular basis.

### 6.1.3 Conducted emission limit

Frequency (MHz)	Class A (dB(μV))		Class B (dB(μV))	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.5	79	66	66 ~ 56*	56 ~ 46*
0.5 to 5	73	60	56	46
5 to 30			60	50
Remark 1: (*) The limit decreases linearly with the logarithm of frequency.				

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#### 6.1.4 Conducted emission test data

**N/A**

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## 6.2 Radiated emission (30 MHz ~ 1 000 MHz)

Test standard	47 CFR FCC Part 15 Subpart B §15.109
Test date	2024.11.07
Test facility	Building A 10 m chamber
Test voltage	AC 120 V, 60 Hz
Temperature	(17.4 ~ 17.9) °C
Relative humidity	(47.5 ~ 48.1) % R.H.
Test result	Complied

### 6.2.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 3 m away from the interference receiving antenna in the 10 m semi-anechoic chamber.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For 30 MHz ~ 1 000 MHz frequency range, quasi-peak detector with 120 kHz RBW was used.

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## 6.2.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. date
EMI Test Receiver	ESW44	R&S	101839	2025.05.30
Low Noise Preamplifier	MLA-10k01-b01-14	TSJ	2060297	2025.05.31
Bi-Log Antenna	VULB9168	Schwarzbeck	00822	2025.03.09
Attenuator	50FPE-006N	JFW	6 dB-1	2025.03.09
Controller	CO3000	Innco	45450119	-
Antenna Mast	MA4000-EP	Innco	-	-
Turn Table	-	-	-	-
EMI RE Software	EMI-R	TSJ	-	-

\* All test equipment used is calibrated on a regular basis.

## 6.2.3 Radiated emission limit

- The test frequency range of radiated disturbance measurements are listed below

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 - 500	2 000
500 - 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

- Limit for radiated emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dB(μV/m))	Quasi-peak (dB(μV/m))
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

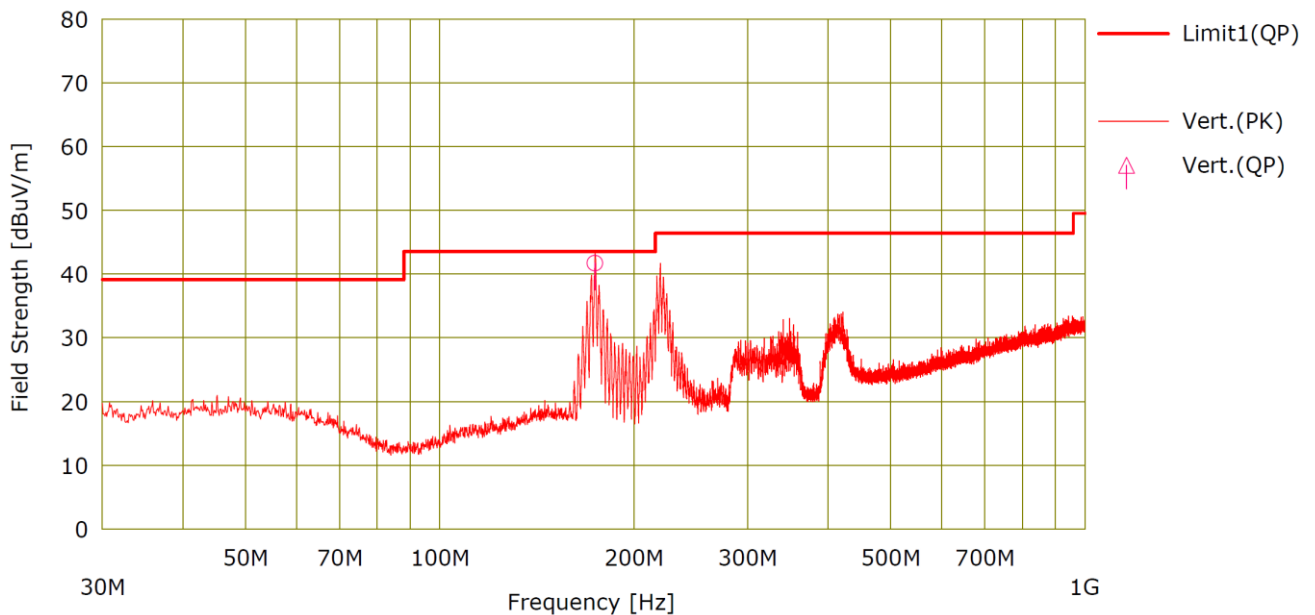
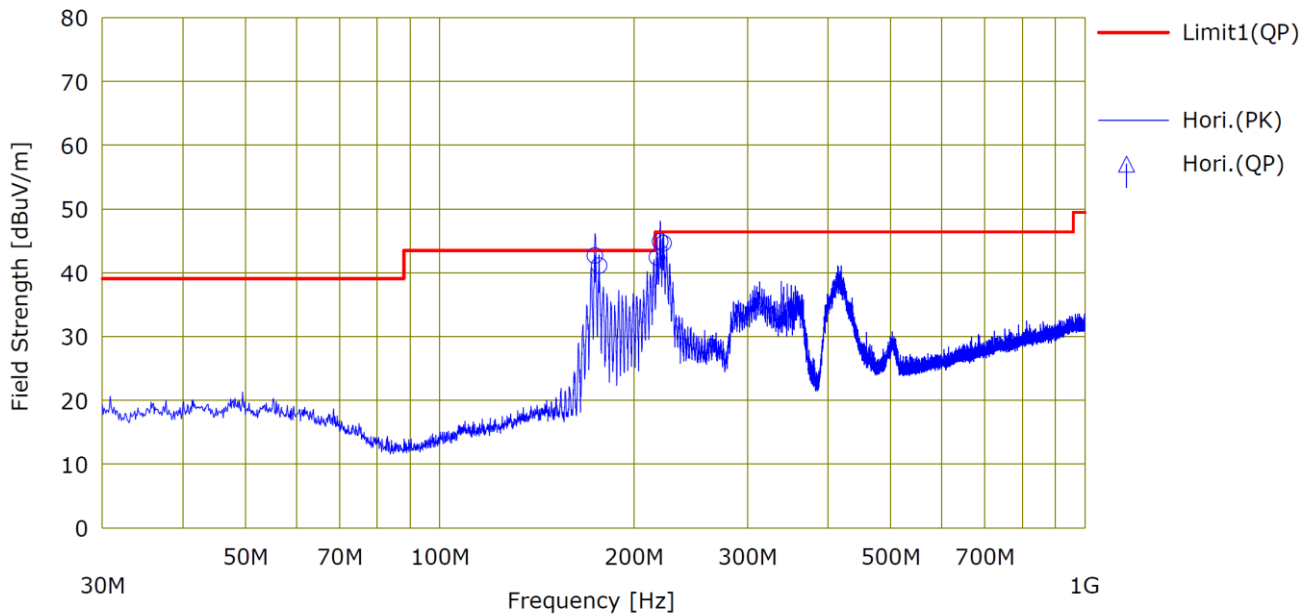
Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

## 6.2.4 Radiated emission test data

\* Minimum limit margin is 0.8 dB at 174.078 MHz (Horizontal)





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<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type
		<QP>				<QP>	<QP>	<QP>				
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	
1	174.078	62.5	18.0	-37.8	0.0	42.7	43.5	0.8	Hori.	300	253	VULB9
2	176.674	61.1	17.7	-37.7	0.0	41.1	43.5	2.4	Hori.	300	264	VULB9
3	217.311	62.8	17.1	-37.5	0.0	42.4	46.4	4.0	Hori.	300	125	VULB9
4	219.742	64.6	17.8	-37.5	0.0	44.9	46.4	1.5	Hori.	300	68	VULB9
5	222.328	64.1	18.0	-37.5	0.0	44.6	46.4	1.8	Hori.	300	85	VULB9
6	174.098	61.5	18.0	-37.8	0.0	41.7	43.5	1.8	Vert.	300	218	VULB9

\* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss [dB]

\* Loss = Cable loss [dB] - Amp gain [dB]

\* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

\* QP: Quasi-peak

\* ex) Measure Value [QP]

Frequency: 174.078 MHz

Result [dB μV/m] = 42.7, Reading [dB μV/m] = 62.5, Antenna factor [dB/m] = 18.0, Loss [dB] = - 37.8, Amp gain [dB] = 0.0

42.7 dB μV/m = 62.5 dB μV/m + 18.0 dB/m - 37.8 dB - 0.0 dB

Margin [dB μV/m] = 0.8, Limit [dB μV/m] = 43.5, Result [dB μV/m] = 42.7

0.8 dB μV/m = 43.5 dB μV/m - 42.7 dB μV/m

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## 6.3 Radiated emission (Above 1 GHz)

Test standard	47 CFR FCC Part 15 Subpart B §15.109
Test date	2024.11.07
Test facility	Building A 10 m chamber
Test voltage	AC 120 V, 60 Hz
Temperature	(17.9 ~ 18.2) °C
Relative humidity	(48.1 ~ 48.5) % R.H.
Test result	Complied

### 6.3.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.1 m above the reference ground plane and 3 m away from the interference receiving antenna in the 10 m chamber. Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For peak and average detector with 1 MHz RBW were used for above 1 GHz frequency range.



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### 6.3.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. date
EMI Test Receiver	ESW44	R&S	101839	2025.05.30
Low Noise Preamplifier	MLA-0108-J02-39	TSJ	20755	2025.05.31
Horn Antenna	BBHA 9120 D	Schwarzbeck	02067	2025.05.31
Controller	CO3000	Innco	45450119	-
Antenna Mast	MA4640-XP-ET	Innco	-	-
Turn Table	-	-	-	-
BAND REJECT FILTER	WRCGV10-2363.5-2400-2483.5-2520-60SS	WAINWRIGHTINSTRUMENTSGMBH	7	2025.04.02
EMI RE Software	EMI-R	TSJ	-	-

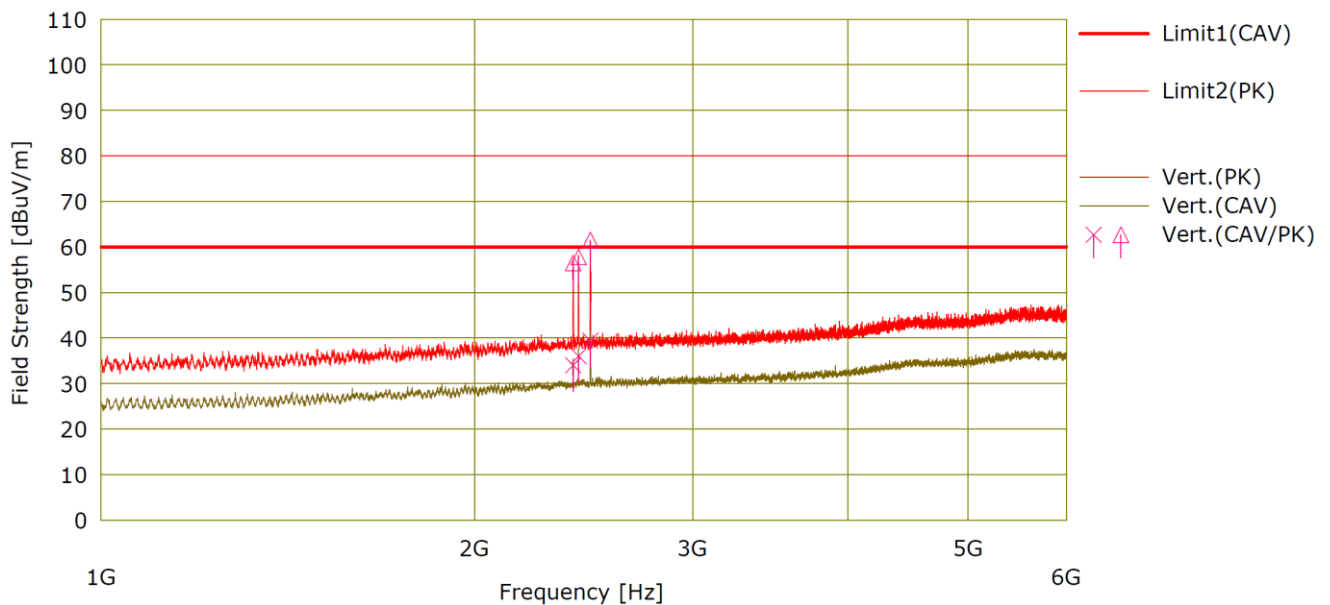
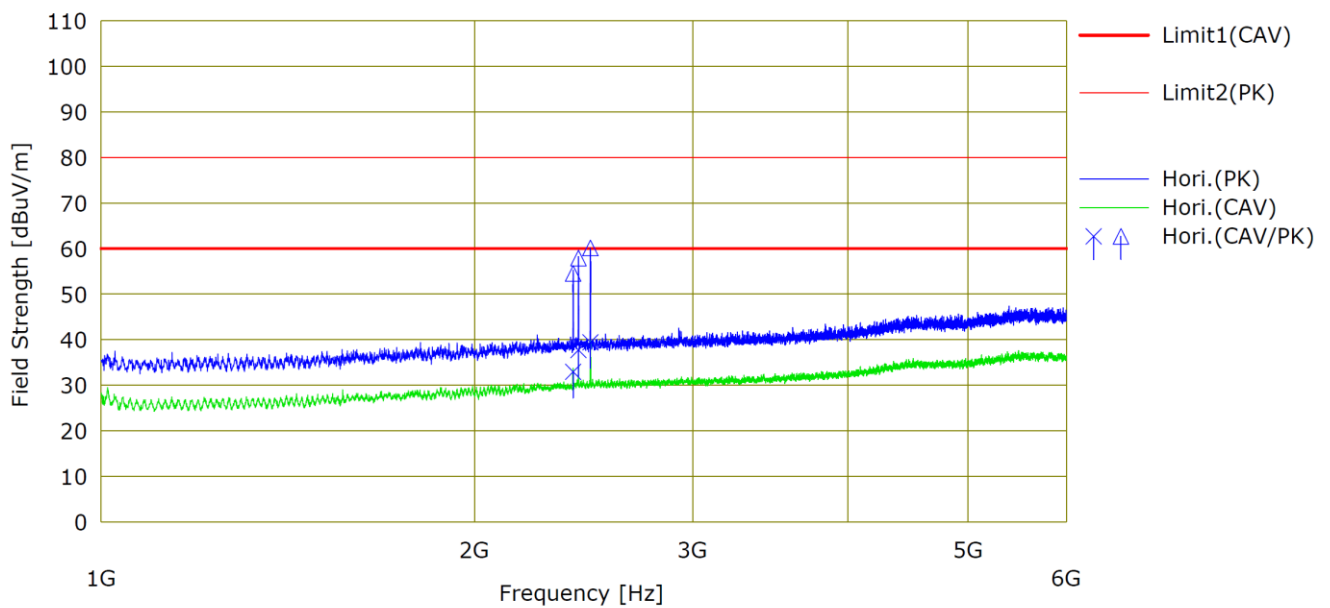
\* All test equipment used is calibrated on a regular basis

### 6.3.3 Radiated emission limits

Frequency (GHz)	Class A equipment (3 m distance) (dB(μV/m))		Class B equipment (3 m distance) (dB(μV/m))	
	Peak	CISPR Average	Peak	CISPR Average
Above 1	80	60	74	54

#### 6.3.4 Radiated emission test data

\* Minimum limit margin is 18.5 dB at 2480.287 MHz (Vertical)





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<< CAV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type
		<CAV>	<PK>					<CAV>	<PK>	<CAV>	<PK>	<CAV>	<PK>				
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]				
1	2401.979	38.5	60.1	27.3	-36.4	0.0	3.5	32.9	54.5	60.0	80.0	27.1	25.5	Hori.	400	349	3BHA9
2	2425.557	43.2	63.4	27.3	-36.3	0.0	3.5	37.7	57.9	60.0	80.0	22.3	22.1	Hori.	200	21	3BHA9
3	2480.111	44.6	65.3	27.5	-36.2	0.0	3.5	39.4	60.1	60.0	80.0	20.6	19.9	Hori.	200	73	3BHA9
4	2402.061	39.6	62.1	27.3	-36.4	0.0	3.5	34.0	56.5	60.0	80.0	26.0	23.5	Vert.	100	307	3BHA9
5	2426.160	41.5	63.3	27.3	-36.3	0.0	3.5	36.0	57.8	60.0	80.0	24.0	22.2	Vert.	100	289	3BHA9
6	2480.287	44.6	66.7	27.5	-36.2	0.0	3.5	39.4	61.5	60.0	80.0	20.6	18.5	Vert.	200	173	3BHA9

\* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss [dB] + S.Fac

\* Loss = Cable loss [dB] - Amp gain [dB]

\* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

\* PK = Peak, CAV = CISPR Average

\* ex) Measure Value[CAV]

Frequency: 2401.979 MHz

Results [dB μ V/m] = 32.9, Reading [dB μ V/m] = 38.5, Antenna factor [dB/m] = 27.3, Loss [dB] = 36.4

Amp gain [dB] = 0.0, S.Fac [dB] = 3.5

32.9 dB μ V/m = 38.5 dB μ V/m + 27.3 dB/m + 36.4 dB - 0.0 dB + 3.5 dB

Margin [dB] = 27.1, Limit [dB μ V/m] 60.0, Result [dB μ V/m] = 32.9

27.1 dB = 60.0 dB μ V/m - 32.9 dB μ V/m

- END -