

TEST REPORT

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (1) / (46) Pages

1. Applicant

- Name : Haier US Appliance Solutions, Inc.
- Address : Appliance Park AP5-2N-65, Louisville, Kentucky, KY 40225, United States
- Date of Receipt : 2025-02-05

2. Manufacturer

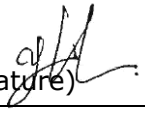
- Name : Haier US Appliance Solutions, Inc.
- Address : Appliance Park AP5-2N-65, Louisville, Kentucky, KY 40225, United States

3. Use of Report : For FCC Conformance / ISED Conformance**4. Test Sample / Model :** Wi-Fi/Bluetooth Combo Stand-alone Module
/ WCATD001**5. Date of Test :** 2025-02-19 to 2025-02-24**6. Test Standard(method) used :** FCC 47 CFR part 15 subpart C 15.247
ISED RSS-247 & RSS-Gen**7. Testing Environment :** refer to 8 page**8. Test Results :** Compliance**9. Location of Test :** ☒ Permanent Testing Lab ☐ On Site Testing

(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea)

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

This report cannot be reproduced or copied without the written consent of CTK.

Approval	Tested by	Technical Manager
	Ji-Hye, Kim: (Signature) 	Young-taek Lee: (Signature) 

2025-03-10

CTK Co., Ltd.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (2) / (46) Pages

REPORT REVISION HISTORY

Date	Revision	Page No
2025-03-10	Issued (CTK-2025-00648)	all

This report shall not be reproduced except in full, without the written approval of CTK Co., Ltd. This document may be altered or revised by CTK Co., Ltd. personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by CTK Co., Ltd. will constitute fraud and shall nullify the document.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (3) / (46) Pages

CONTENTS

1. General Product Description	4
1.1 Applicant Information	4
1.2 Product Information	4
1.3 Peripheral Devices	5
1.4 Model Differences	5
2. Accreditations	6
2.1 Laboratory Accreditations and Listings	6
2.2 Calibration Details of Equipment Used for Measurement	6
3. Test Specifications	7
3.1 Standards	7
3.2 Testing Environment	8
3.3 Mode of operation during the test	8
3.4 Device Modifications	9
3.5 Measurement Uncertainty	9
3.6 Test Software	9
4. Technical Characteristic Test	10
4.1 6dB Bandwidth & 99% Bandwidth	10
4.2 OUTPUT POWER	14
4.3 Transmitter Power Spectral Density	18
4.4 Conducted Spurious emission	22
4.5 Radiated Emission	26
4.6 AC Conducted Emissions	44
APPENDIX A – Test Equipment Used For Tests	46



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (4) / (46) Pages

1. General Product Description

1.1 Applicant Information

Company	Haier US Appliance Solutions, Inc.
Contact Point	Appliance Park AP5-2N-65, Louisville, Kentucky, KY 40225, United States
Contact Person	Name : Park, Hansung E-mail : hansung.park@geappliances.com Tel : +82-31-8094-6732 Fax : +82-31-8094-6888

1.2 Product Information

FCC ID	ZKJ-WCATD001
ISED	10229A-WCATD001
Product Description	Wi-Fi/Bluetooth Combo Stand-alone Module
Model name	WCATD001
Variant Model name	-
Operating Frequency	2 412 MHz - 2 462 MHz (20MHz_BW)
RF Output Power	802.11b : 20.51 dBm (112.46 mW) 802.11g : 15.86 dBm (38.55 mW) 802.11n_HT20 : 15.29 dBm (33.81 mW)
Antenna Specification	Antenna type : Chip Antenna Peak Gain : 2.0 dBi
Antenna Configurations	802.11b : SISO 802.11g : SISO 802.11n : SISO
Number of channels	11
Type of Modulation	802.11b : DSSS 802.11g/n : OFDM
Data Rate	802.11b : 11 / 5.5 / 2 / 1 Mbps 802.11g : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n: up to 72.2 Mbps
Power Source	DC 5 V, DC 3.3 V
Hardware Rev	v2.06
Software Rev	v0.5.15.152
RF Power setting in Test SW	802.11b : 108 802.11g : 101 802.11n_HT20 : 98



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (5) / (46) Pages

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-CA40	-

1.4 Model Differences

Not applicable



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (6) / (46) Pages

2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (7) / (46) Pages

3. Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Status (Note 1)	Test Condition
15.247(a)	6 dB Bandwidth	C	Conducted
15.247(b)	Maximum Output Power	C	
15.247(d)	Conducted Spurious emission	C	
15.247(d)	Unwanted Emission(Conducted)	C	
15.247(e)	Transmitter Power Spectral Density	C	
15.209	Radiated Emissions	C	Radiated
15.207	AC Conducted Emissions	C	Line Conducted
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable			
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.			
<u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.247			
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in KDB No.558074, ANSI C63.10-2013			

ISED Part Section(s)	Requirement(s)	Status (Note 1)	Test Condition
RSS-247 5.2(a)	6 dB Bandwidth	C	Conducted
RSS-247 5.4(d)	Maximum Output Power	C	
RSS-247 5.5	Conducted Spurious emission	C	
RSS-247 5.5	Unwanted Emission(Conducted)	C	
RSS-247 5.2(b)	Transmitter Power Spectral Density	C	
RSS-Gen 6.13	Radiated Emissions	C	Radiated
RSS-Gen 8.8	AC Conducted Emissions	C	Line Conducted
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable			
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.			
<u>Note 3:</u> The sample was tested according to the following specification: RSS-247 Issue 3, RSS-GEN Issue 5			
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013			



3.2 Testing Environment

Test Item		Test Date	Temperature (°C)	Relative Humidity (%)
Carrier Frequency Separation Number of Hopping Frequencies 20 dB Bandwidth Time of occupancy (Dwell Time) Maximum peak conducted output power Unwanted emission (Conducted)		2025-02-19	24	33
Transmitter emission (Radiated)	1) 9 kHz to 30 MHz	2025-02-24	15	30
	2) 30 MHz to 1 GHz			
	3) 1 GHz to 18 GHz	2025-02-21, 2025-02-24	21, 23	36, 34
	4) 18 GHz to 25 GHz			
	5) Restricted Frequency Bands			
AC Conducted Emission		2025-02-24	14	31

3.3 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.
During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests.
The results are attached only for the DC 5V power source, considering it the worst case.

Test Frequency & Bandwidth

Bandwidth	Lowest channel	Middle channel	Highest channel
20 MHz	2 412 MHz	2 437 MHz	2 462 MHz

Test mode & Worst case

Test mode	Modulation	Data rate (Worst case)	Duty Cycle	Duty Cycle Factor
802.11b	DSSS	1 Mbps	99.1 %	0 dB
802.11g	OFDM	6 Mbps	94.4 %	0.25 dB
802.11n_HT20	OFDM	MCS 0	94.0 %	0.27 dB



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (9) / (46) Pages

3.4 Device Modifications

The following modifications were necessary for compliance:

Not applicable

3.5 Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Power Spectral Density	1.5 dB (C.L.: Approx. 95 %, $k = 2$)
Occupied Bandwidth	0.1 MHz (C.L.: Approx. 95 %, $k = 2$)
Unwanted Emission(conducted)	3.0 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f \leq 1$ GHz)	3.82 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.50 dB (C.L.: Approx. 95 %, $k = 2$)
Line Conducted Emission	2.00 dB (C.L.: Approx. 95 %, $k = 2$)

3.6 Test Software

Automation program

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	EP5RE Ver. 6.0.10, ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.00

Test program

Conducted Test, Radiated Test, Line Conducted Test	UI_mptool.exe
--	---------------



4. Technical Characteristic Test

4.1 6dB Bandwidth & 99% Bandwidth

Test Procedures

KDB 558074 - Section 8.2
ANSI C63.10-2013 - Section 11.8.2
RSS-Gen – Section 6.7

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Procedures

ANSI C63.10-2013 - Section 6.9
RSS-Gen – Section 6.7

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1% to 5% of the OBW
- b) VBW $\geq 3 \times$ RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Minimum Standard :

6 dB Bandwidth > 500kHz



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (11) / (46) Pages

Test Data :

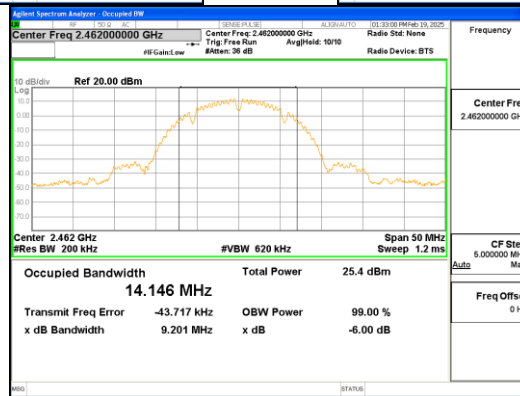
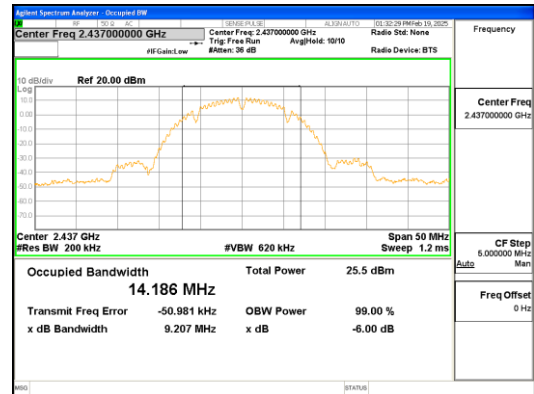
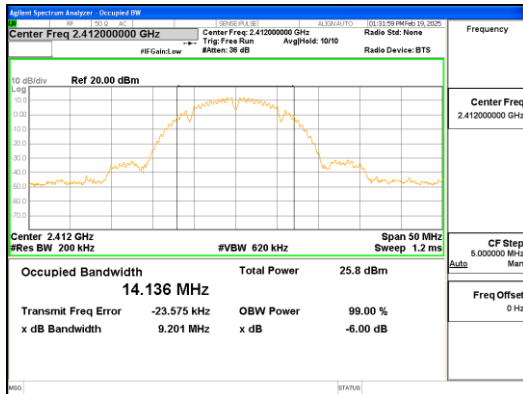
Mode	6 dB Bandwidth and 99 % Bandwidth (MHz)					
	802.11b		802.11g		802.11n_HT20	
Frequency	6 dB	99 %	6 dB	99 %	6 dB	99 %
2 412 MHz	9.20	14.14	16.42	16.63	17.64	17.71
2 437 MHz	9.21	14.19	16.42	16.73	17.66	17.75
2 462 MHz	9.20	14.15	16.42	16.67	17.61	17.82

See next pages for actual measured spectrum plots.

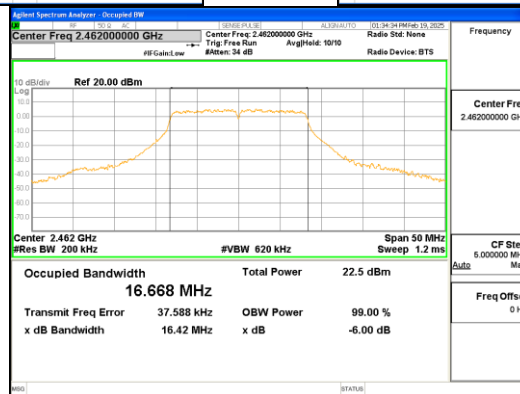
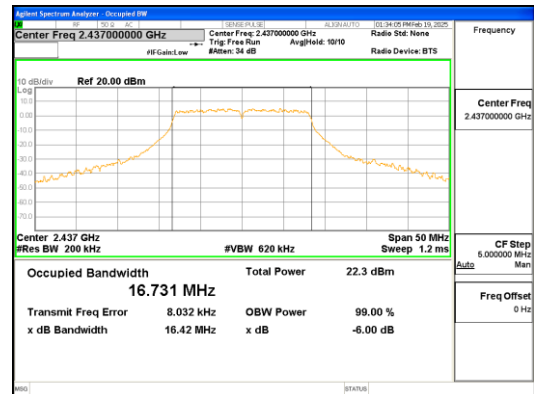
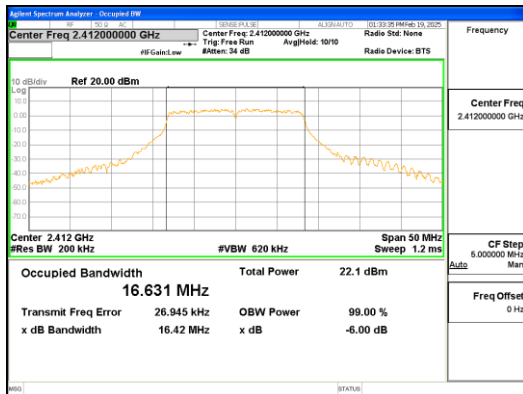


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (12) / (46) Pages



802.11b

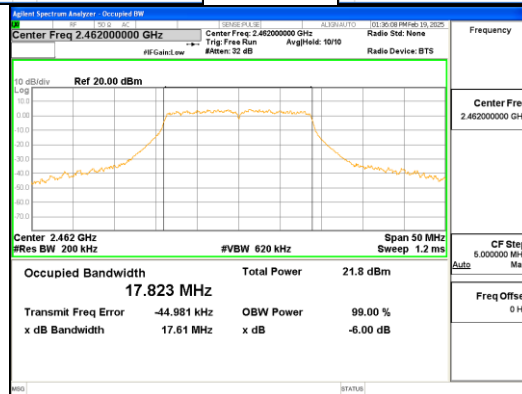
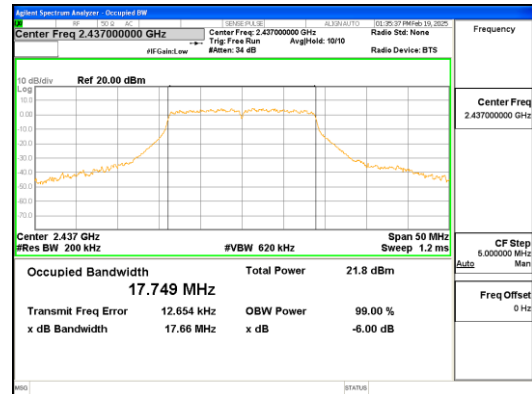
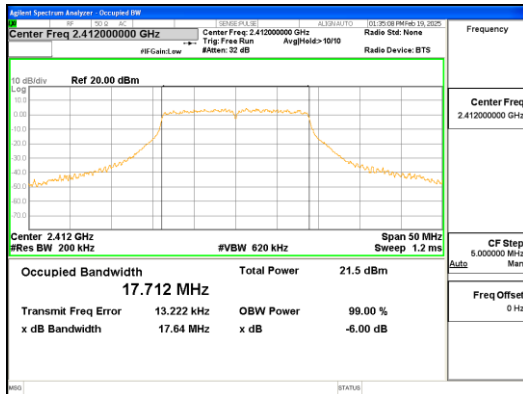


802.11g



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (13) / (46) Pages



802.11n_HT20

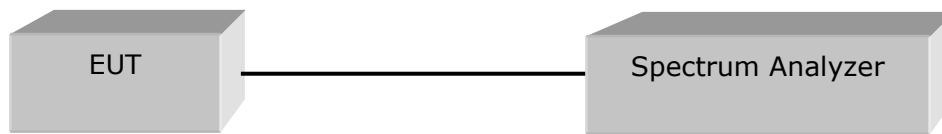


4.2 OUTPUT POWER

Test Procedures

KDB 558074 - Section 8.3.2.2 (Average Power)
ANSI C63.10-2013 - Section 11.9.2.2

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) span $\geq 1.5 \times \text{OBW}$
- b) RBW = 1 MHz
- c) VBW $\geq 3 \times \text{RBW}$
- d) Sweep time = auto
- e) Detector = RMS
- f) average at least 100
- g) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
802.11b	0
802.11g	0.25
802.11n_HT20	0.27

Limit

Operating Mode	Mode	ANT Gain (dBi)	Limit (dBm)
SISO	802.11b/g/n_HT20	2.0	30



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (15) / (46) Pages

Test Data :

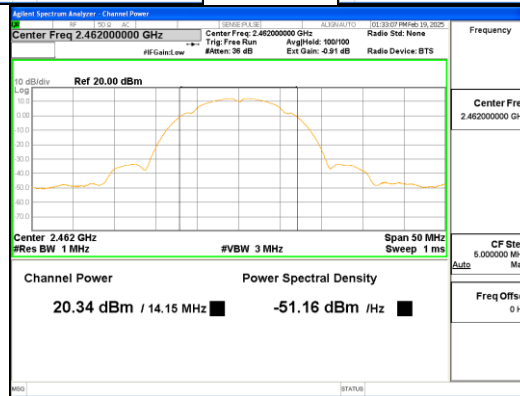
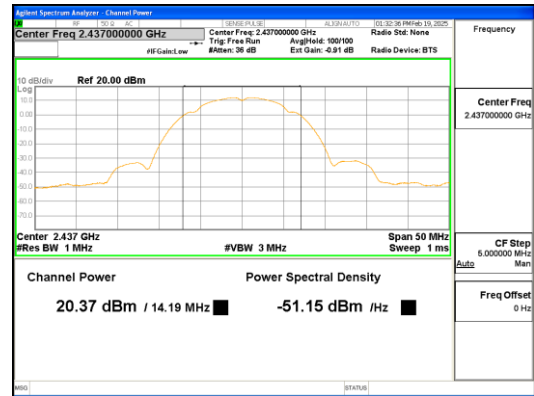
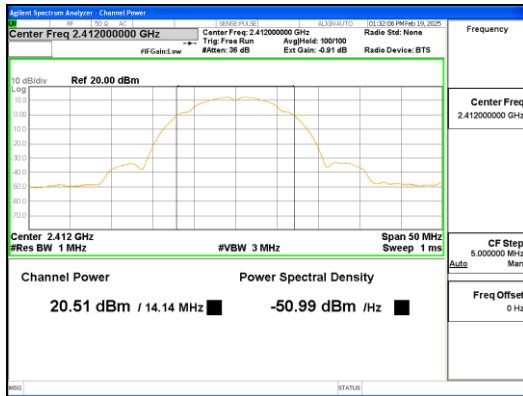
Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11b	2 412	20.51	0	20.51	30.00	9.49
	2 437	20.37	0	20.37	30.00	9.63
	2 462	20.34	0	20.34	30.00	9.66
802.11g	2 412	15.22	0.25	15.47	30.00	14.53
	2 437	15.46	0.25	15.71	30.00	14.29
	2 462	15.61	0.25	15.86	30.00	14.14
802.11n _HT20	2 412	14.62	0.27	14.89	30.00	15.11
	2 437	14.84	0.27	15.11	30.00	14.89
	2 462	15.02	0.27	15.29	30.00	14.71

See next pages for actual measured spectrum plots.

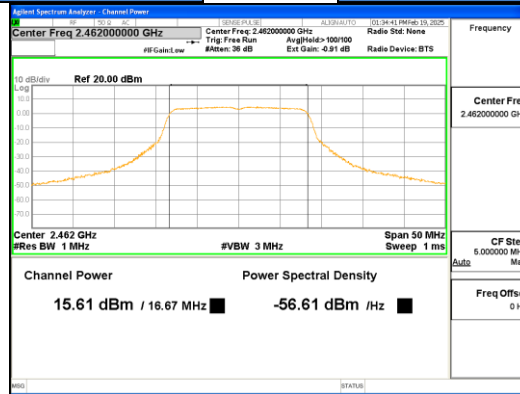
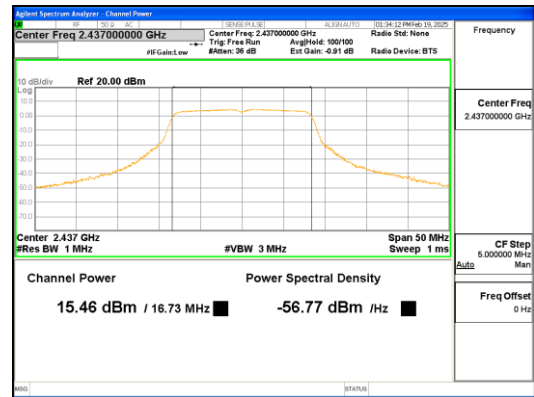
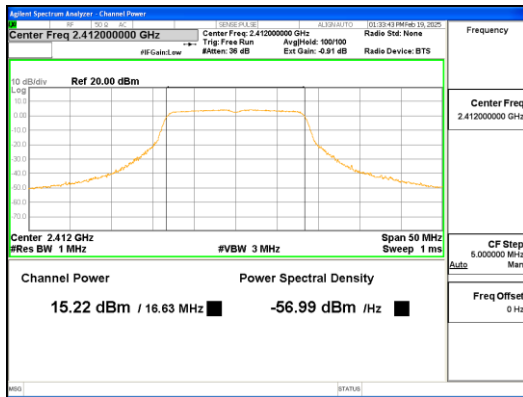


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (16) / (46) Pages



802.11b

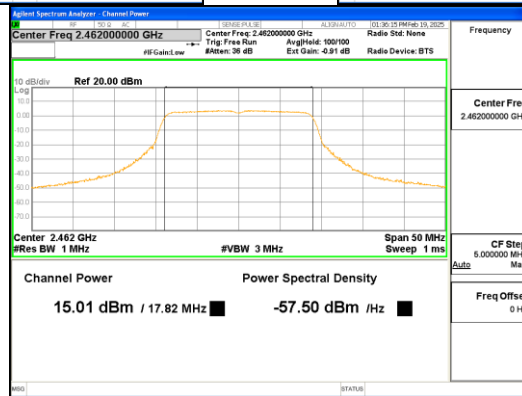
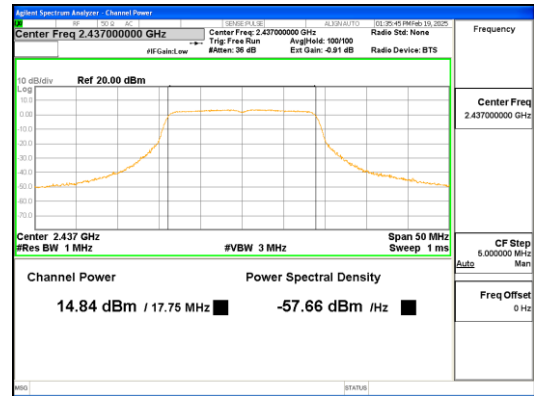
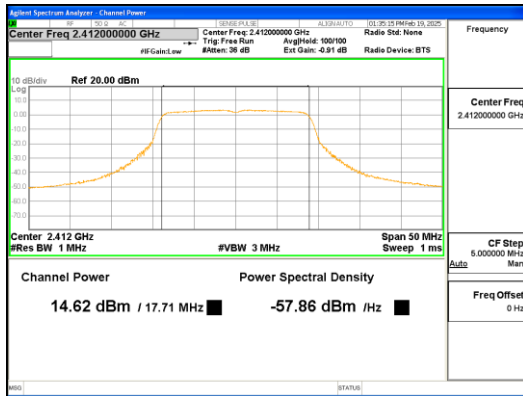


802.11g



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (17) / (46) Pages



802.11n_HT20



4.3 Transmitter Power Spectral Density

Test Procedures

KDB 558074 - Section 8.4

ANSI C63.10-2013 - Section 11.10.2

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW : $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

b) VBW $\geq 3 \times \text{RBW}$

c) span $\geq 1.5 \times \text{DTS bandwidth}$

d) Sweep time = auto couple

e) Detector = peak

f) Trace mode = max hold

g) Allow trace to fully stabilize

h) Use the peak marker function to determine the maximum amplitude level within the RBW.

Limit

Operating Mode	Mode	ANT Gain (dBi)	Limit (dBm)
SISO	802.11b/g/n_HT20	2.0	8



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (19) / (46) Pages

Test Data

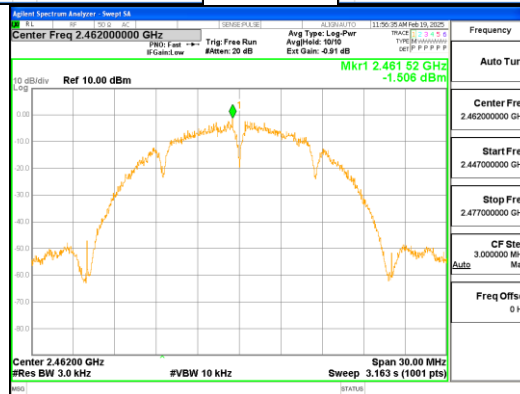
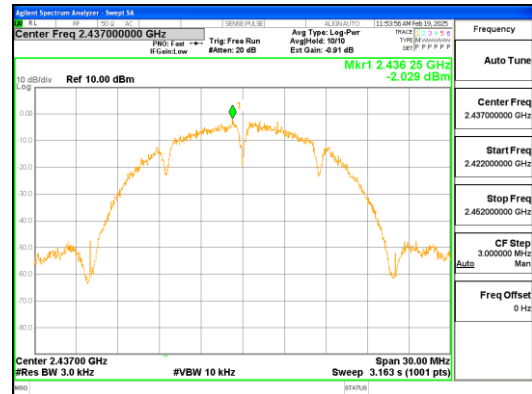
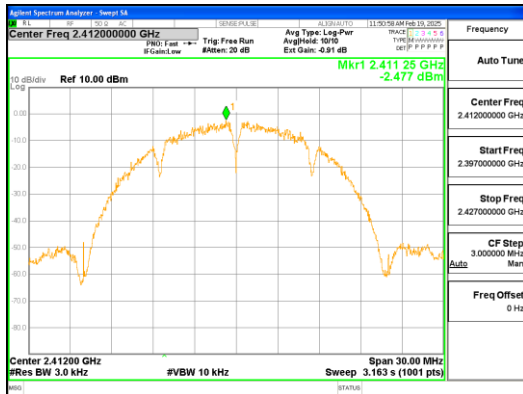
Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Limit (dBm)	Margin(dB)
802.11b	2 412	-2.48	8.00	10.48
	2 437	-2.03	8.00	10.03
	2 462	-1.51	8.00	9.51
802.11g	2 412	-9.96	8.00	17.96
	2 437	-8.87	8.00	16.87
	2 462	-9.36	8.00	17.36
802.11n _HT20	2 412	-10.72	8.00	18.72
	2 437	-9.87	8.00	17.87
	2 462	-10.45	8.00	18.45

See next pages for actual measured spectrum plots.

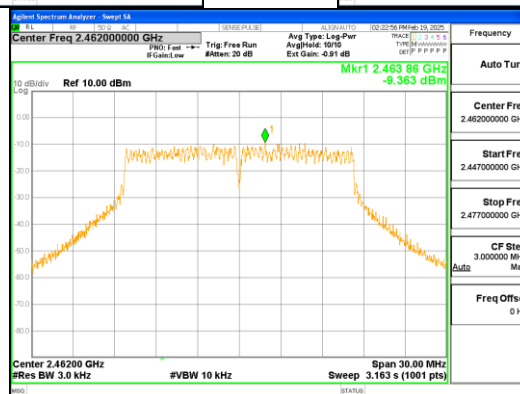
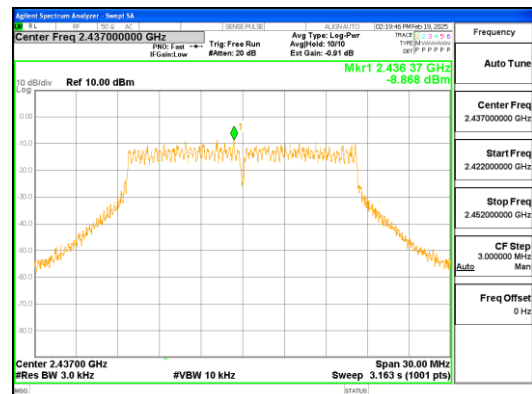
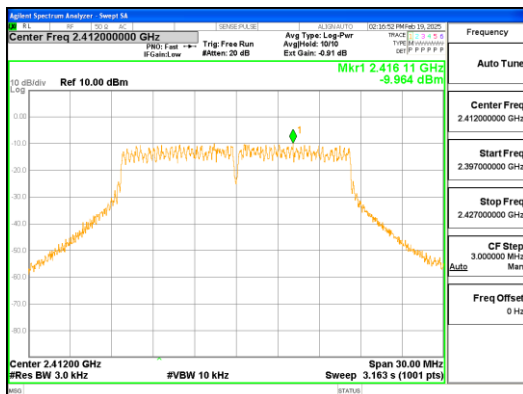


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (20) / (46) Pages



802.11b

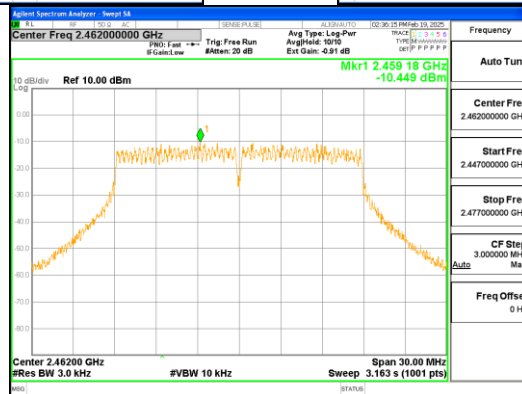
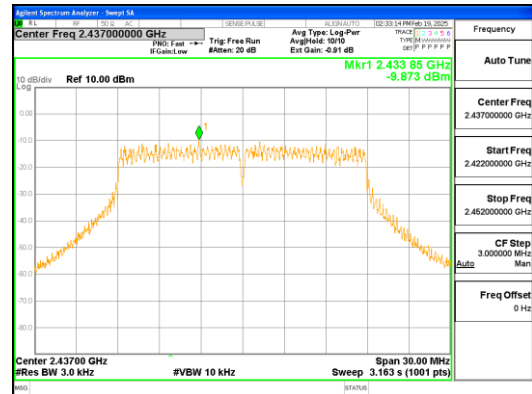
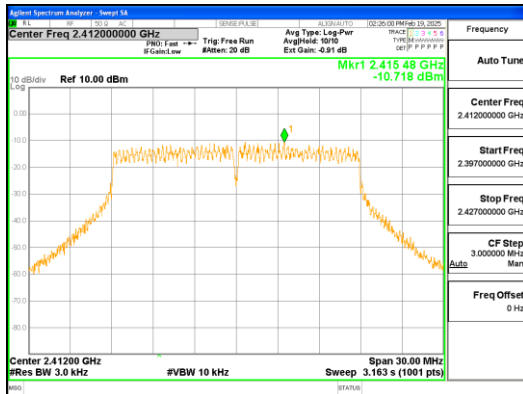


802.11g



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (21) / (46) Pages



802.11n_HT20



4.4 Conducted Spurious emission

Test Procedures

KDB 558074 - Section 8.5
ANSI C63.10-2013 - Section 11.11.3
RSS-Gen - Section 6.13

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.
After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW $\geq 3 \times$ RBW
- c) Detector = peak
- d) Sweep time = auto couple
- e) Trace mode= max hold
- f) Allow trace to fully stabilize
- g) Use the peak marker function to determine the maximum amplitude level.

Limit :

Emission level < 30 dBc

Test Data: Complies

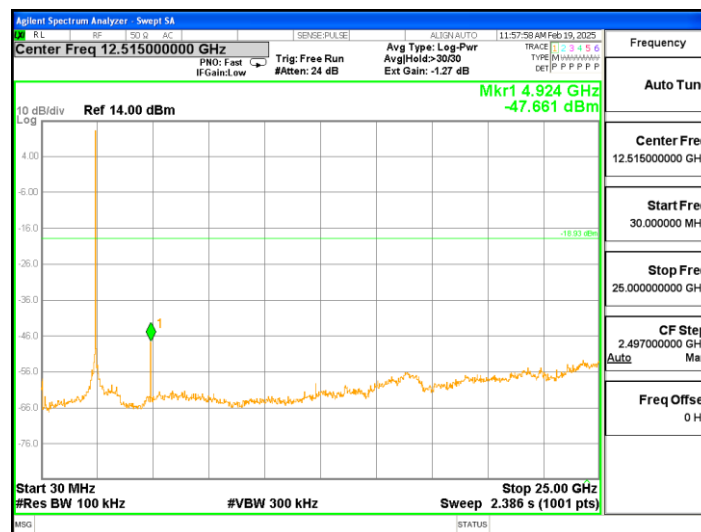
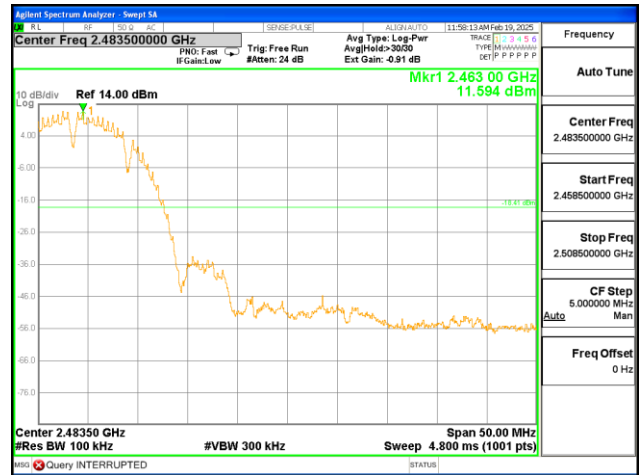
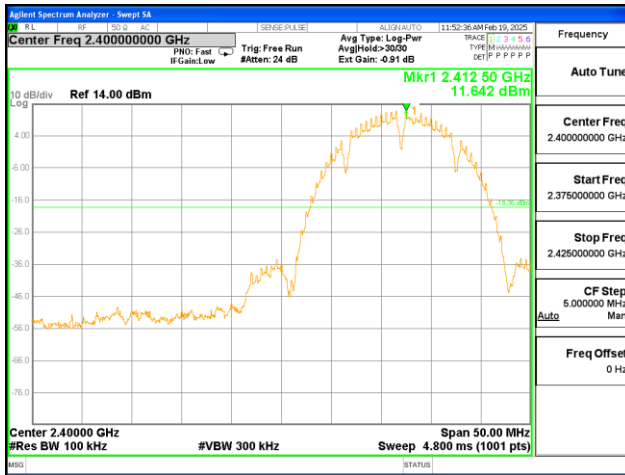
- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 30dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.

See next pages for actual measured spectrum plots.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (23) / (46) Pages

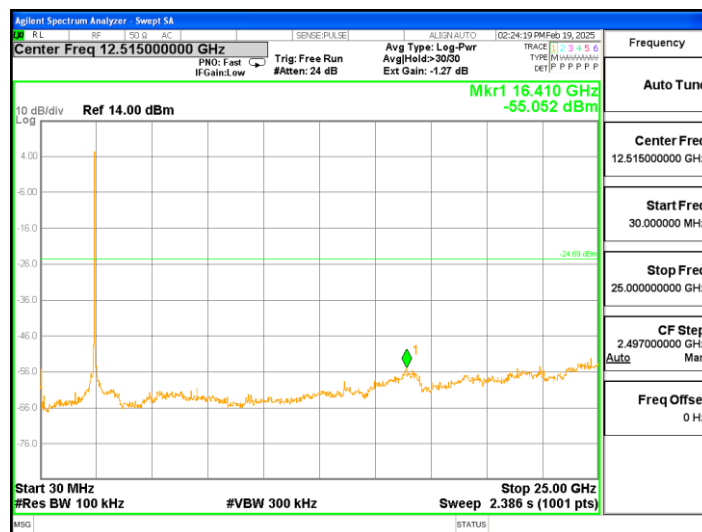
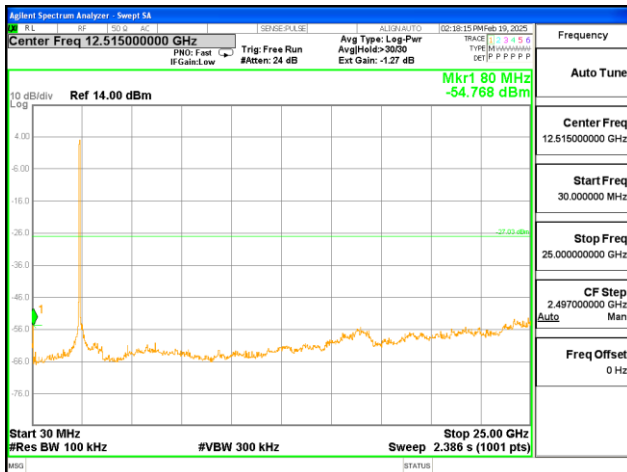
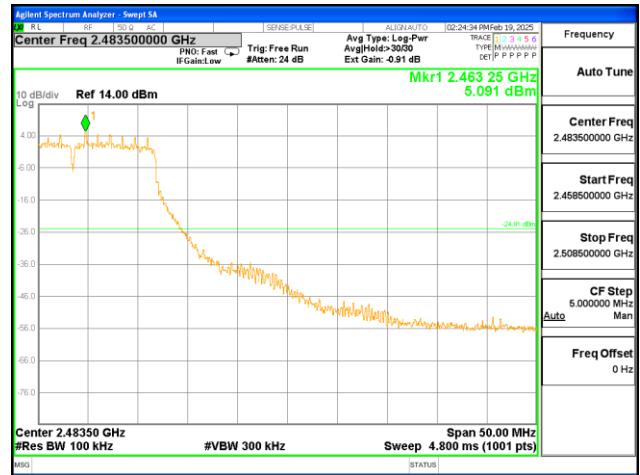
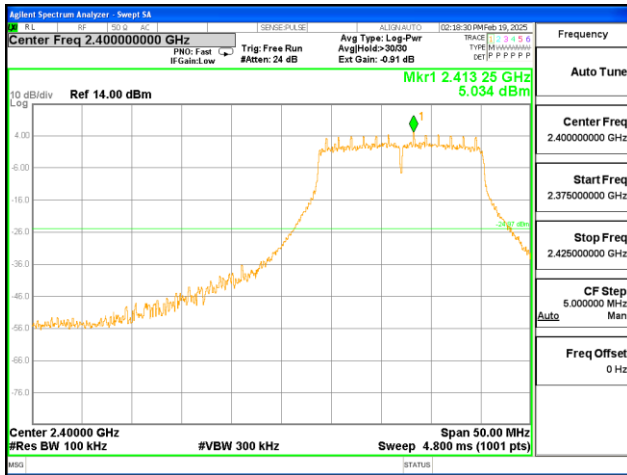


802.11b



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (24) / (46) Pages

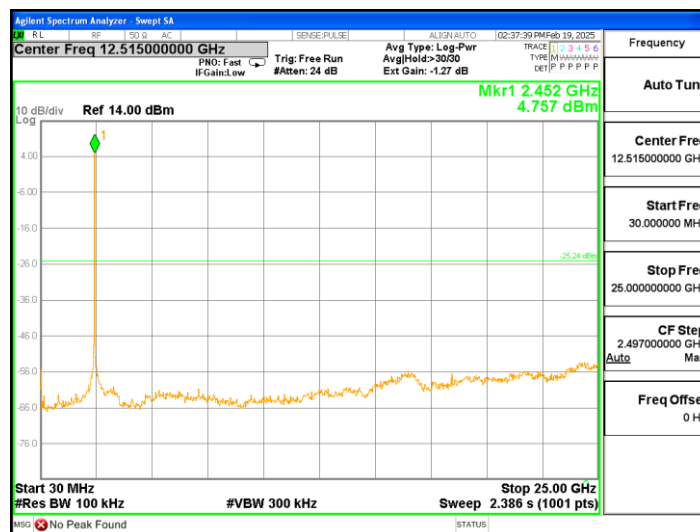
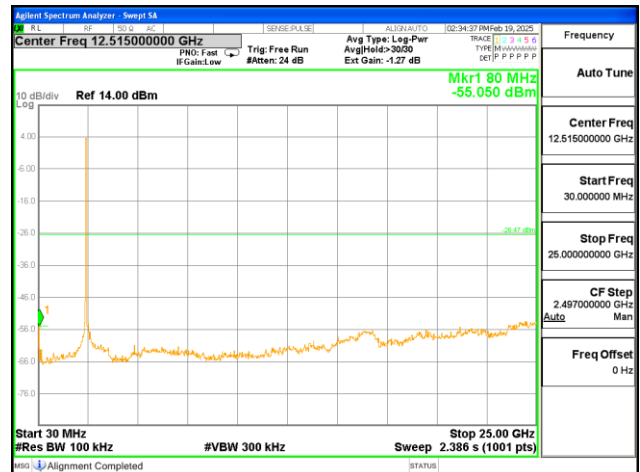
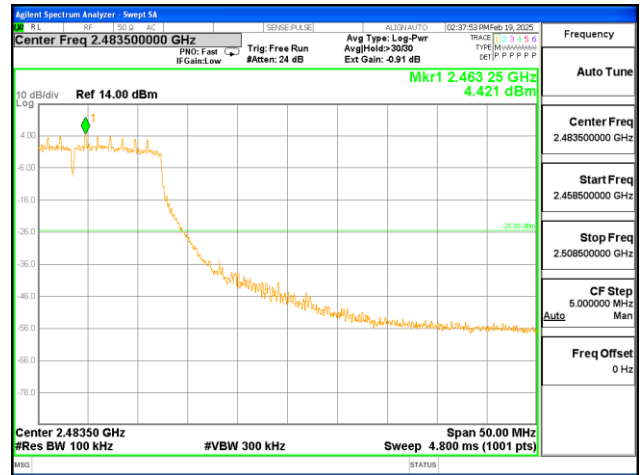
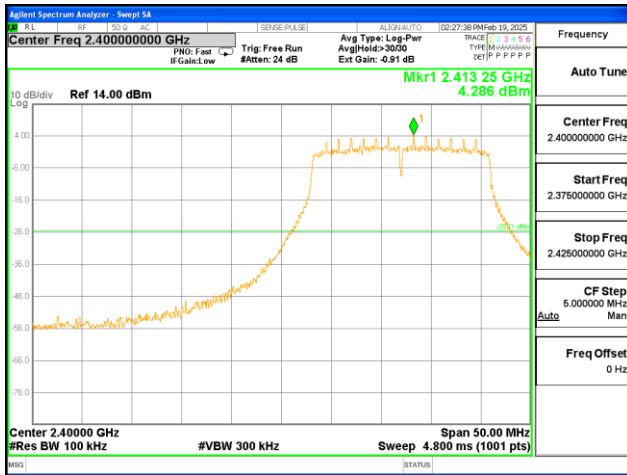


802.11g



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (25) / (46) Pages



802.11n_HT20



4.5 Radiated Emission

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6
ANSI C63.10-2013 - Section 11.11, 11.12
RSS-Gen - Section 6.13

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
b) VBW $\geq$ RBW
c) Detector = CISPR Quasi-peak
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = Peak
d) Sweep time = auto
e) Trace mode = max hold

- Average (duty cycle $\geq 98\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = RMS
d) Sweep time = auto
e) Averaging type = power (i.e., RMS)
f) Trace mode = average (at least 100 traces)

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (27) / (46) Pages

- Average (duty cycle < 98%, duty cycle variations are less than $\pm 2\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Test mode	Duty Cycle Factor
802.11b	0 dB
802.11g	0.25 dB
802.11n_HT20	0.27 dB



Limit :

Unwanted emissions that do not fall within the restricted frequency bands of Table 1 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (29) / (46) Pages

FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

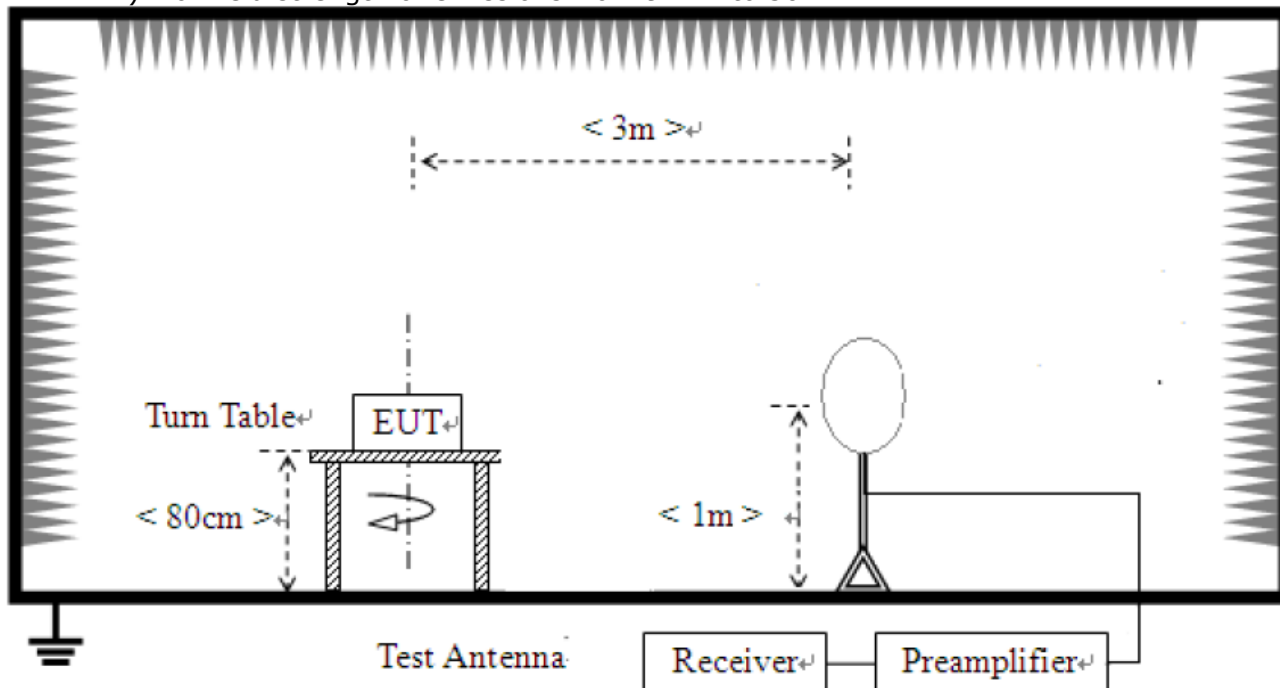
** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

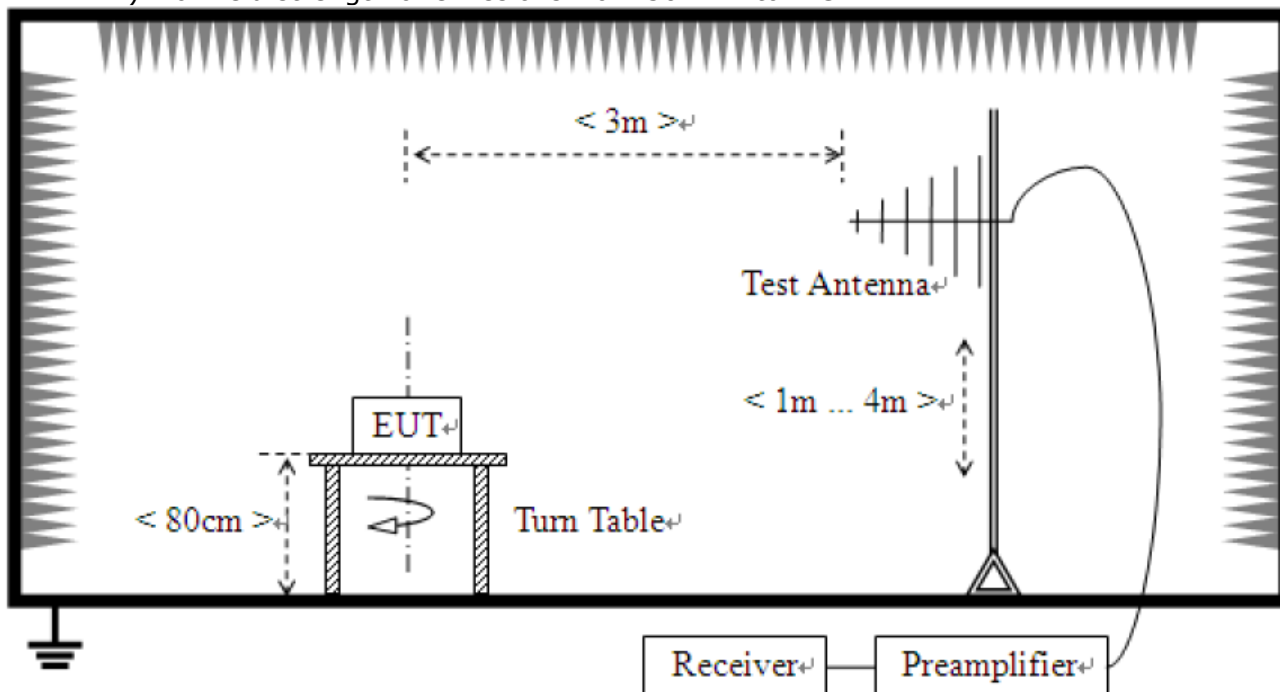
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) For emissions below 1GHz, only the worst-case data identified in the Output Power measurements has been attached.

Test Setup:

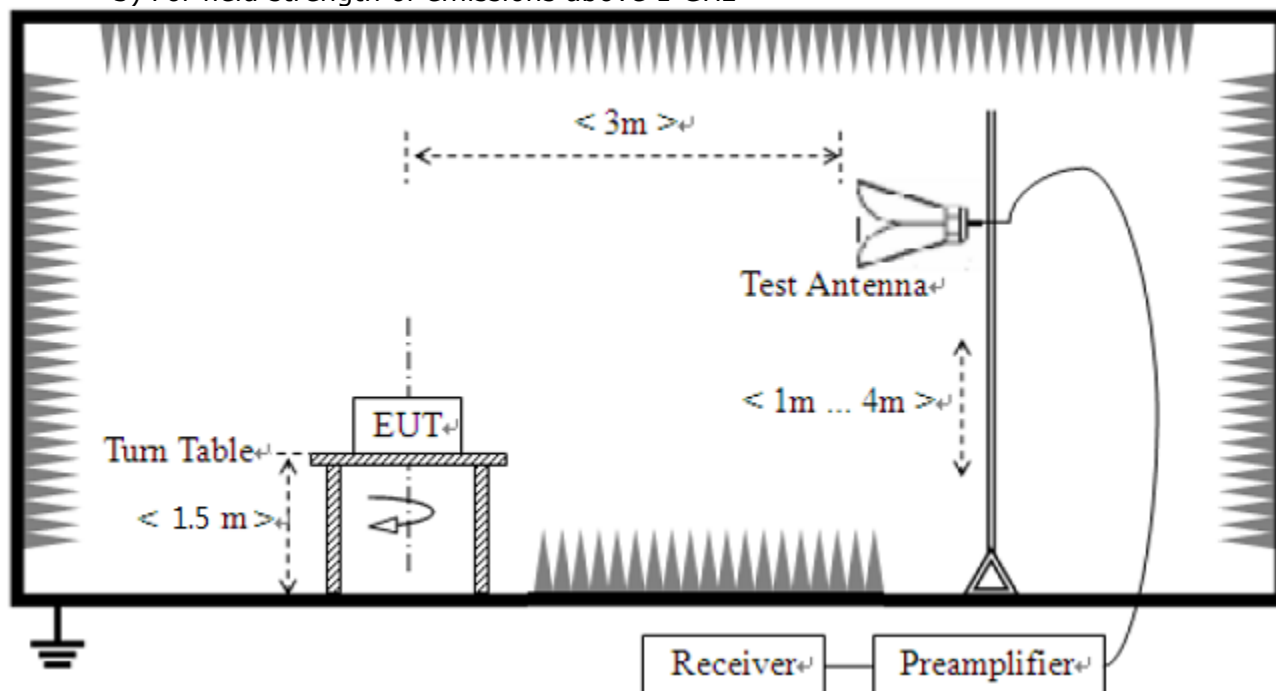
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz





Test results

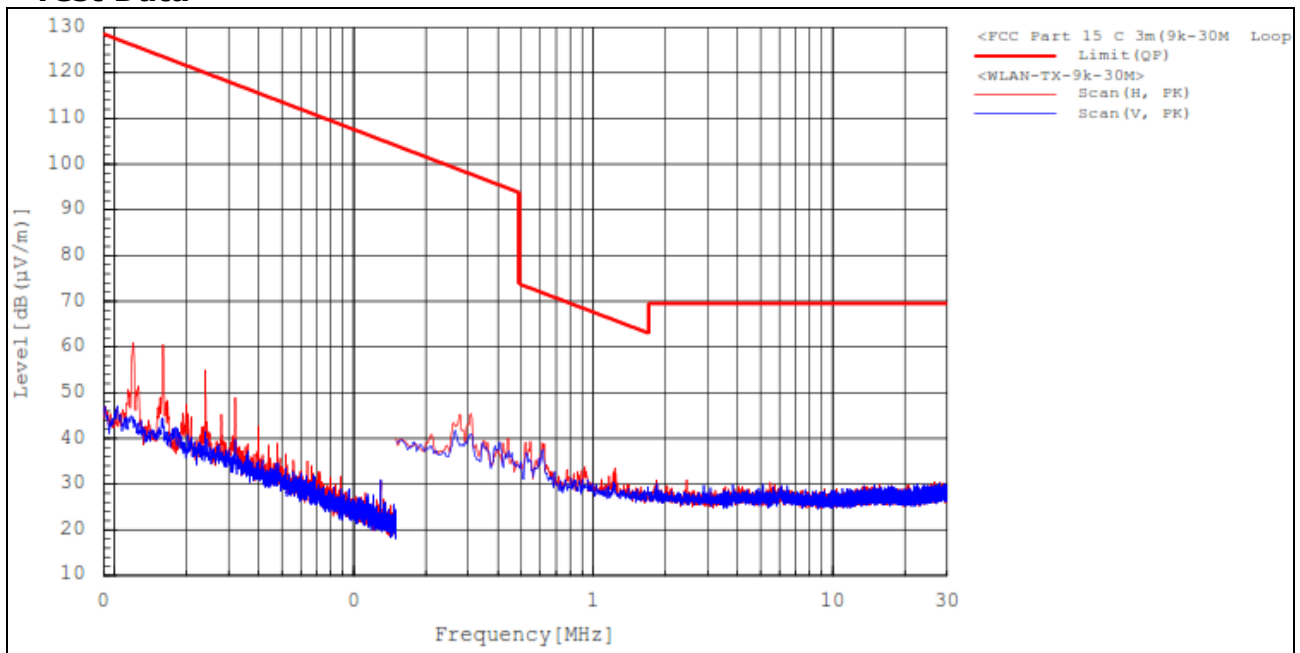
1) 9 kHz to 30 MHz

Test mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

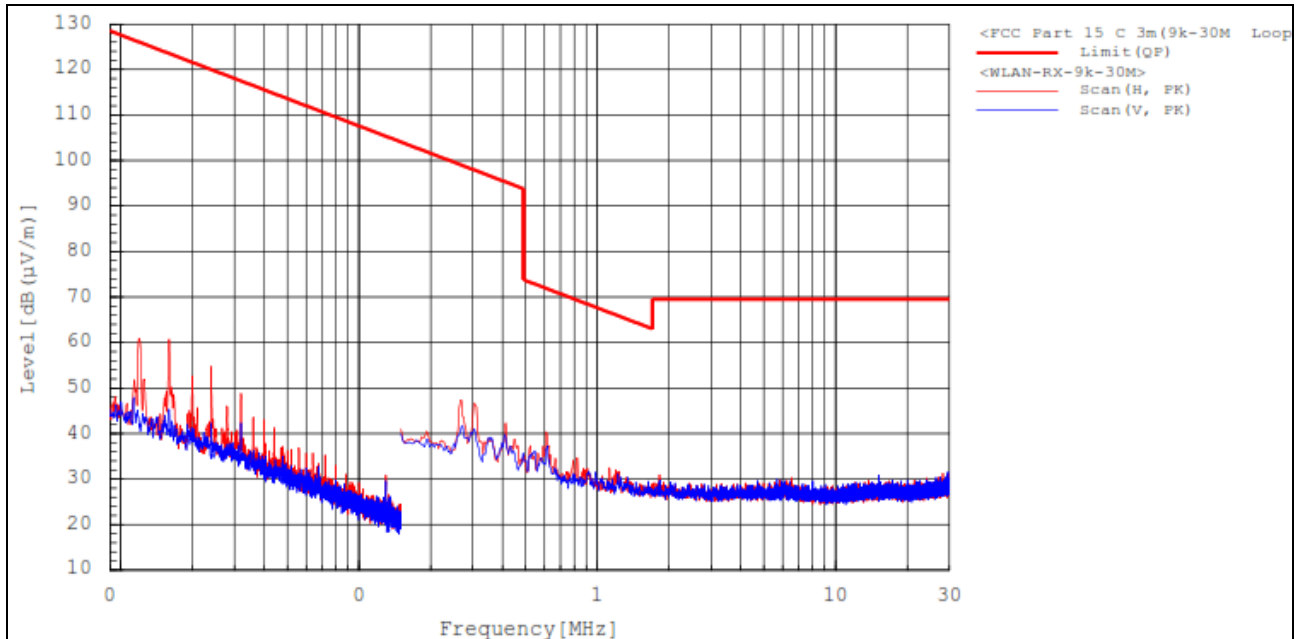
Report No.:
CTK-2025-00648
Page (33) / (46) Pages

Test mode : Receiver (Worst Case)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (34) / (46) Pages

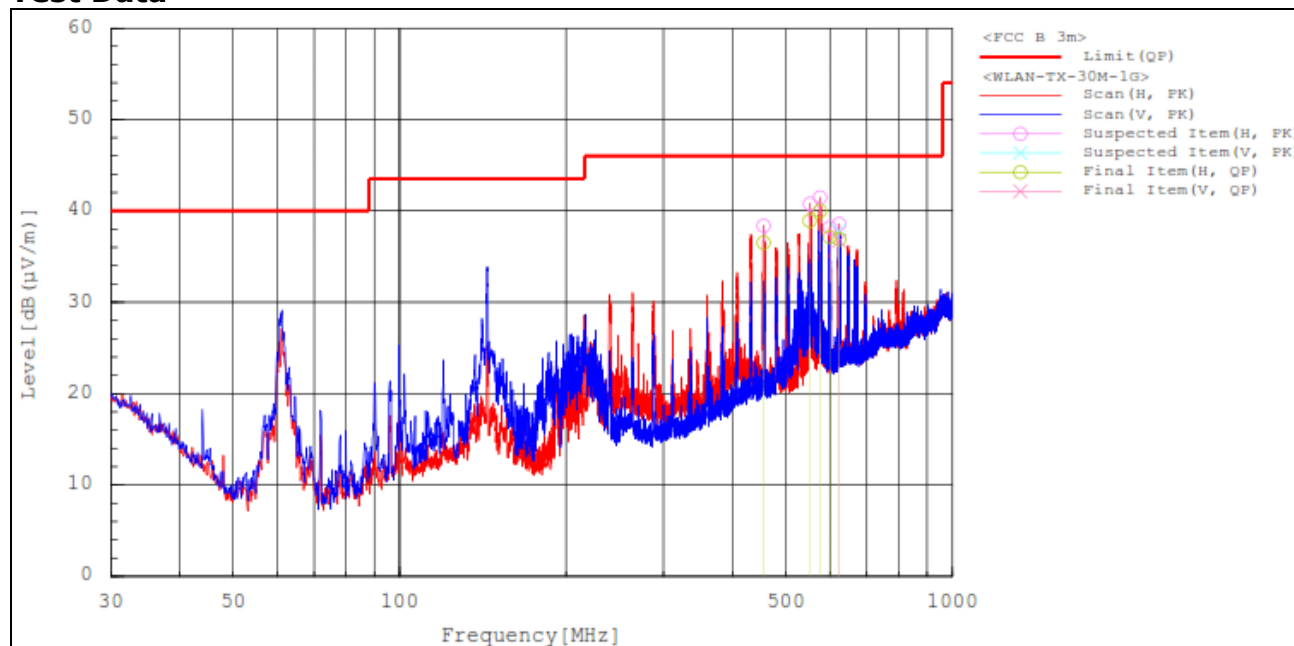
2) 30 MHz to 1 GHz

Test mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data



Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	455.733	H	42.2	-5.7	36.5	46.0	9.5	100.3	0.1
2	551.954	H	41.6	-2.7	38.9	46.0	7.1	200.0	214.4
3	576.000	H	42.1	-2.1	40.0	46.0	6.0	200.0	214.4
4	599.972	H	39.7	-2.6	37.1	46.0	8.9	200.0	214.4
5	624.025	V	38.8	-2.1	36.7	46.0	9.3	100.0	6.4
6	624.028	H	39.0	-2.1	36.9	46.0	9.1	100.3	211.9

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

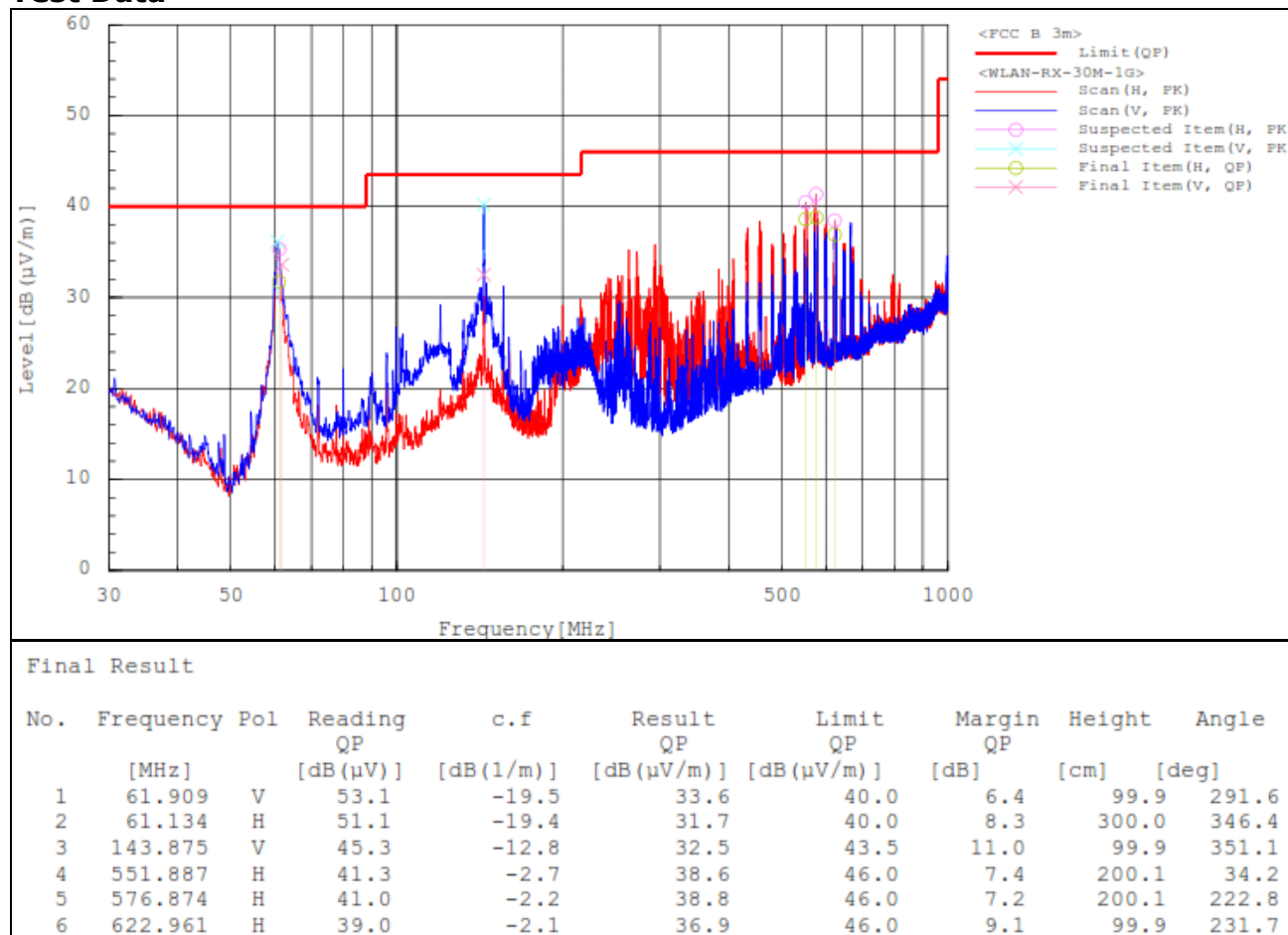
Report No.:
CTK-2025-00648
Page (35) / (46) Pages

Test mode : Receiver (Worst Case)

The requirements are:

☒ Complies

Test Data



Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

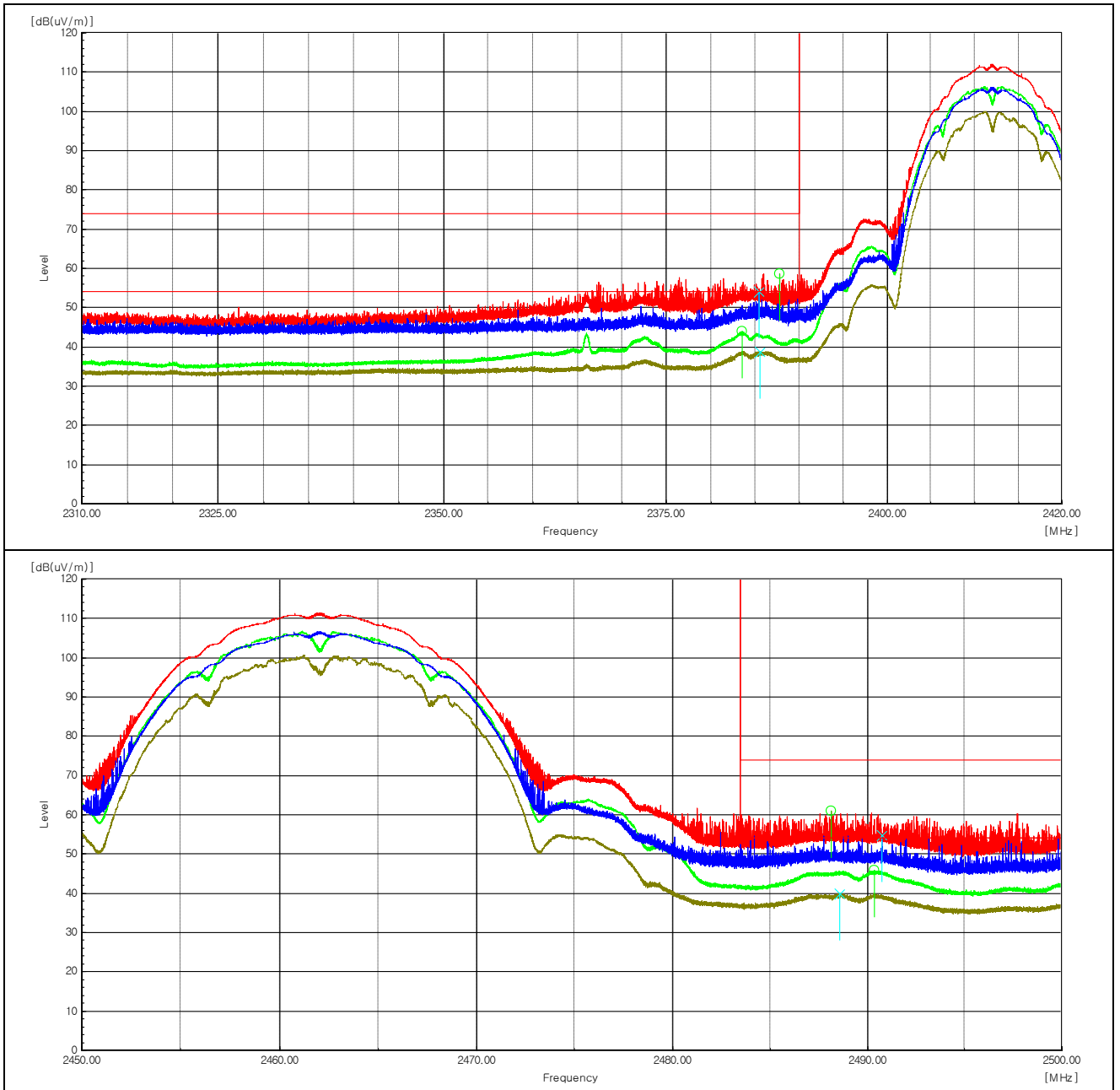


3) above 1 GHz

The requirements are:

☒ Complies

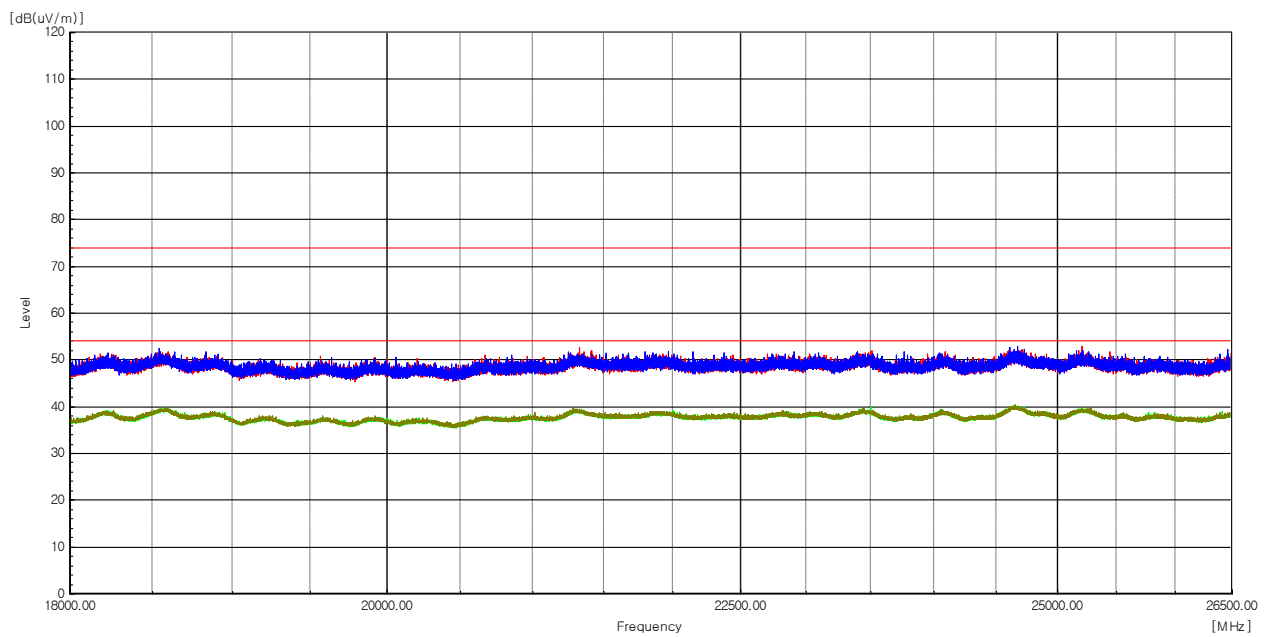
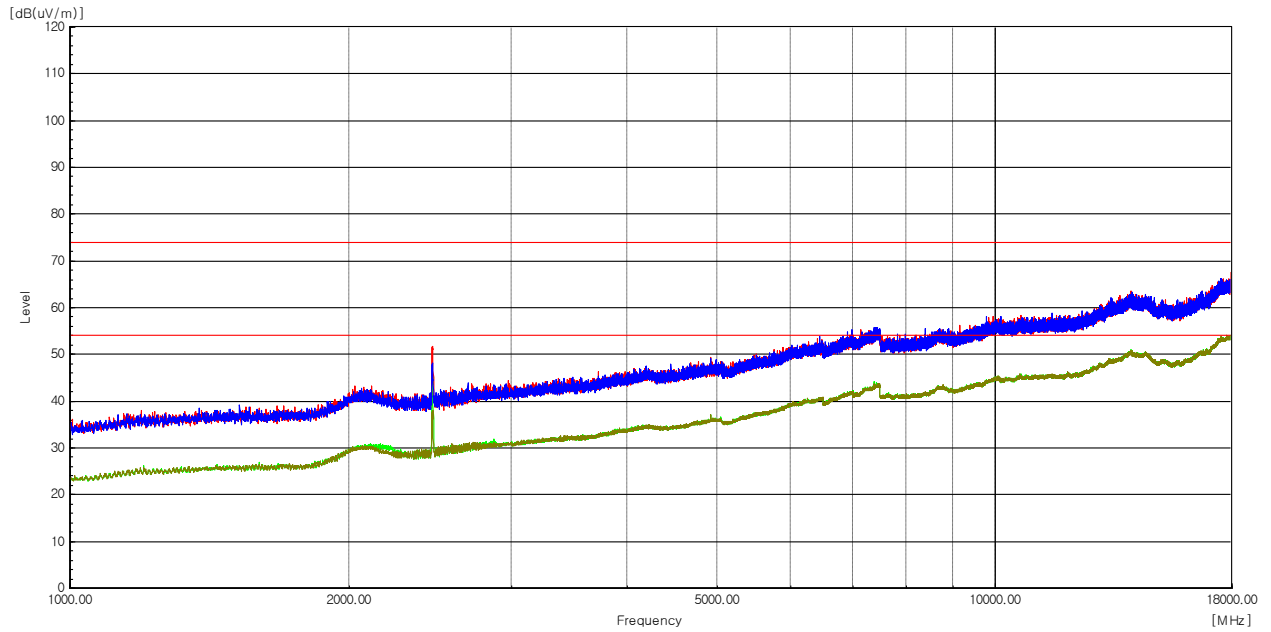
Test Data





CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (37) / (46) Pages





CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (38) / (46) Pages

Test mode : Transmitter, 802.11b

Lowest channel (2 412 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 387.78	H	63.2	-4.5	-----	58.7	-----	74.0	-----	15.3	-----
2 383.51	H	48.4	-4.5	0.0	-----	43.9	-----	54.0	-----	10.1
2 385.48	V	58.7	-4.5	-----	54.2	-----	74.0	-----	19.8	-----
2 385.56	V	43.3	-4.5	0.0	-----	38.8	-----	54.0	-----	15.2
4 824.04	H	48.0	3.4	-----	51.4	-----	74.0	-----	22.6	-----
4 824.13	H	37.9	3.4	0.0	-----	41.3	-----	54.0	-----	12.7
4 824.20	V	47.4	3.4	-----	50.8	-----	74.0	-----	23.2	-----
4 823.99	V	36.9	3.4	0.0	-----	40.3	-----	54.0	-----	13.7

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
4 874.08	H	47.3	3.6	-----	50.9	-----	74.0	-----	23.1	-----
4 874.06	H	36.8	3.6	0.0	-----	40.4	-----	54.0	-----	13.6
4 874.08	V	46.4	3.6	-----	50.0	-----	74.0	-----	24.0	-----
4 874.03	V	35.3	3.6	0.0	-----	38.9	-----	54.0	-----	15.1



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (39) / (46) Pages

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 488.15	H	65.0	-4.1	-----	60.9	-----	74.0	-----	13.1	-----
2 490.34	H	49.8	-4.1	0.0	-----	45.7	-----	54.0	-----	8.3
2 490.72	V	58.9	-4.1	-----	54.8	-----	74.0	-----	19.2	-----
2 488.58	V	43.9	-4.1	0.0	-----	39.8	-----	54.0	-----	14.2
4 923.97	H	46.6	3.7	-----	50.3	-----	74.0	-----	23.7	-----
4 923.91	H	36.4	3.7	0.0	-----	40.1	-----	54.0	-----	13.9
4 923.85	V	46.8	3.7	-----	50.5	-----	74.0	-----	23.5	-----
4 923.94	V	35.3	3.7	0.0	-----	39.0	-----	54.0	-----	15.0

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (40) / (46) Pages

Test mode : Transmitter, 802.11g

Lowest channel (2 412 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 389.72	H	71.0	-4.5	-----	66.5	-----	74.0	-----	7.5	-----
2 389.97	H	52.0	-4.5	0.3	-----	47.8	-----	54.0	-----	6.2
2 389.95	V	65.9	-4.5	-----	61.4	-----	74.0	-----	12.6	-----
2 389.93	V	49.6	-4.5	0.3	-----	45.4	-----	54.0	-----	8.6

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
--------------------	-----	-------------------	------------------	------------------------------	------------------------	------------------------	------------------------	------------------------	----------------------	----------------------

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 483.75	H	73.3	-4.2	-----	69.1	-----	74.0	-----	4.9	-----
2 483.52	H	51.1	-4.2	0.3	-----	47.2	-----	54.0	-----	6.8
2 483.71	V	67.0	-4.2	-----	62.8	-----	74.0	-----	11.2	-----
2 483.82	V	45.0	-4.2	0.3	-----	41.1	-----	54.0	-----	12.9

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (41) / (46) Pages

Test mode : Transmitter, 802.11n_HT20

Lowest channel (2 412 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 389.93	H	71.3	-4.5	-----	66.8	-----	74.0	-----	7.2	-----
2 389.90	H	52.1	-4.5	0.3	-----	47.9	-----	54.0	-----	6.1
2 390.00	V	67.0	-4.5	-----	62.5	-----	74.0	-----	11.5	-----
2 390.00	V	49.4	-4.5	0.3	-----	45.2	-----	54.0	-----	8.8

Middle channel (2 437 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
--------------------	-----	-------------------	------------------	------------------------------	------------------------	------------------------	------------------------	------------------------	----------------------	----------------------

The emissions above 1 GHz were 20 dB lower than the limit.

Highest channel (2 462 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
2 483.58	H	70.7	-4.2	-----	66.5	-----	74.0	-----	7.5	-----
2 483.58	H	51.5	-4.2	0.3	-----	47.6	-----	54.0	-----	6.4
2 483.69	V	64.2	-4.2	-----	60.0	-----	74.0	-----	14.0	-----
2 483.92	V	44.3	-4.2	0.3	-----	40.4	-----	54.0	-----	13.6

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

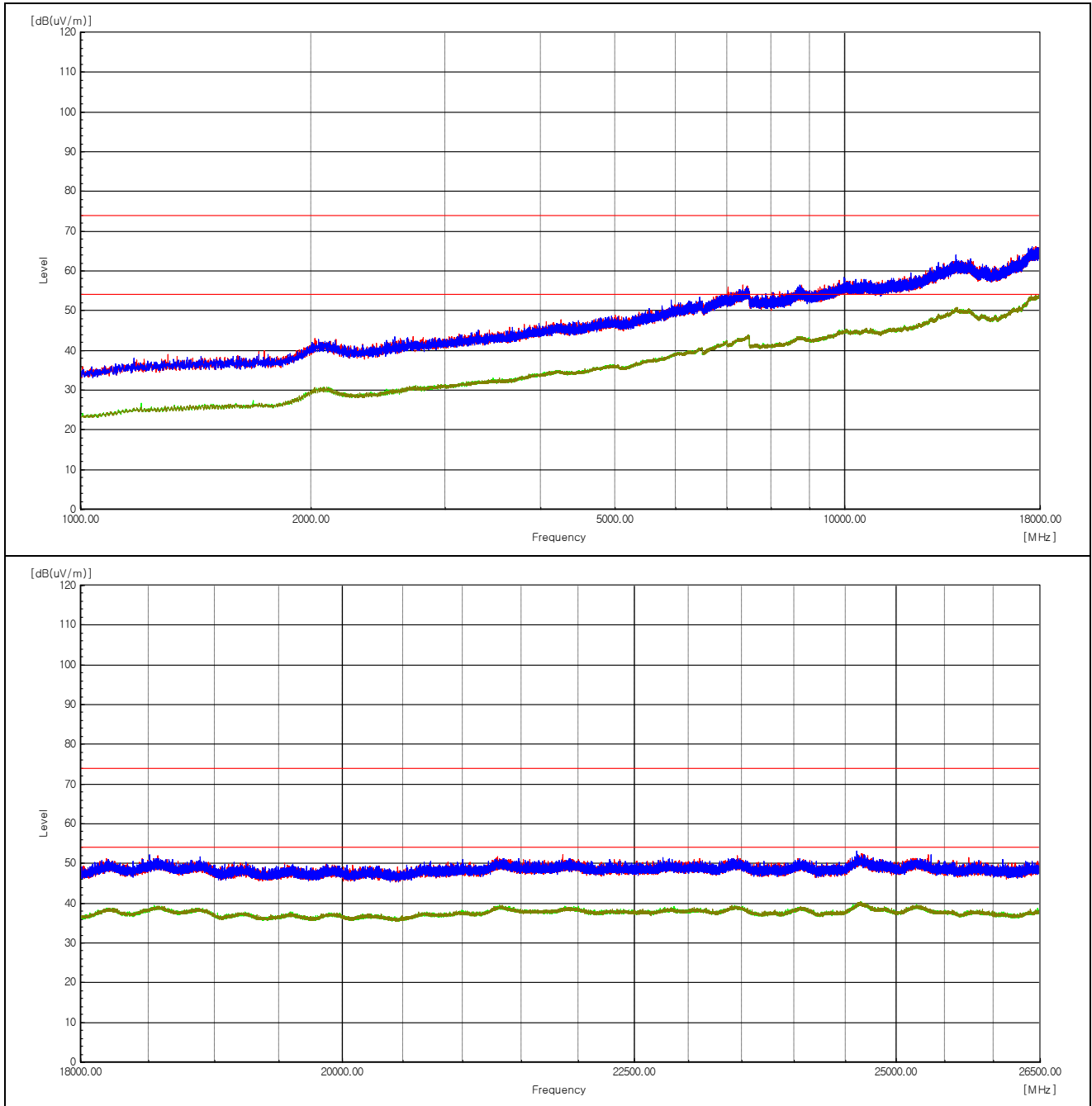


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (42) / (46) Pages

Test mode : Receiver (Worst Case)

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
--------------------	-----	-------------------	------------------	------------------------------	------------------------	------------------------	------------------------	------------------------	----------------------	----------------------

The emissions above 1 GHz were 20 dB lower than the limit.



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (43) / (46) Pages

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



4.6 AC Conducted Emissions

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2

RSS-Gen - Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average**
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

Test Results

The requirements are:

☒ Complies

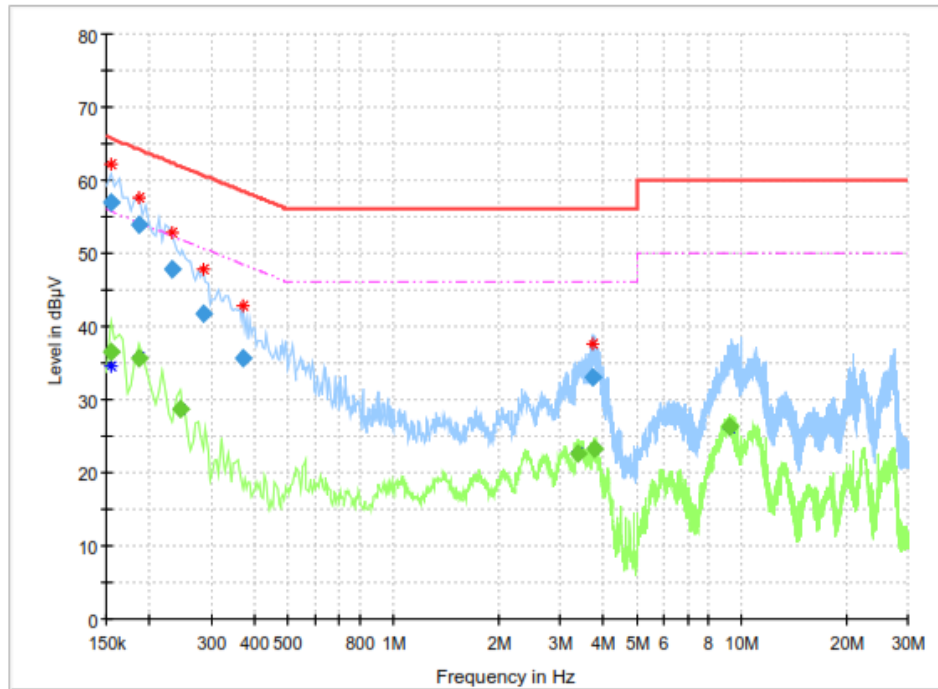


CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (45) / (46) Pages

Test Data

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	---	36.44	55.75	19.32	15000.0	9.000	N	ON	9.7
0.154500	56.87	---	65.75	8.88	15000.0	9.000	L1	ON	9.7
0.186000	53.89	---	64.21	10.32	15000.0	9.000	N	ON	10.1
0.186000	---	35.67	54.21	18.54	15000.0	9.000	N	ON	10.1
0.231000	47.88	---	62.41	14.54	15000.0	9.000	N	ON	9.9
0.244500	---	28.61	51.94	23.33	15000.0	9.000	L1	ON	9.7
0.285000	41.72	---	60.67	18.95	15000.0	9.000	N	ON	9.9
0.370500	35.57	---	58.49	22.92	15000.0	9.000	N	ON	10.0
3.376500	---	22.67	46.00	23.33	15000.0	9.000	L1	ON	9.6
3.745500	33.05	---	56.00	22.95	15000.0	9.000	L1	ON	9.6
3.790500	---	23.29	46.00	22.71	15000.0	9.000	L1	ON	9.6
9.208500	---	26.33	50.00	23.67	15000.0	9.000	N	ON	9.9



CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-00648
Page (46) / (46) Pages

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY49101016	2024-09-19	2025-09-19
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2024-03-21	2025-03-21
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2024-04-29	2025-04-29
4	BILOG ANTENNA	TESEQ	CBL6111D	60654	2023-08-21	2025-08-21
5	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2024-04-15	2026-04-15
6	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2024-07-31	2025-07-31
7	6dB Attenuator	NONE	6dB	190557	2024-09-19	2025-09-19
8	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2024-07-31	2025-07-31
9	Spectrum Analyzer	R&S	FSV40	101574	2025-01-10	2026-01-10
10	PRE AMPLIFIER	HP	8449B	3008A00620	2024-04-11	2025-04-11
11	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2024-04-16	2025-04-16
12	HORN ANTENNA	SCHWARZBECK	BBHA9170	1153	2024-10-18	2025-10-18
13	LOW NOISE AMPLIFIER	TESTEK	TK-PA1840H	210124-L	2024-10-18	2025-10-18
14	Band Reject Filter	Micro Tronics	BRM50702	G233	2025-11-25	2026-11-25
15	EMI Test Receiver	Rohde & Schwarz	ESR3	102826	2024-04-29	2025-04-29
16	LISN	Rohde & Schwarz	ENV216	102698	2024-04-29	2025-04-29

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2025-02-19
2	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2024-03-05
3	RF Cable (9 kHz - 30 MHz Radiated)	Canare Corporation	L-5D2W	N/A	2024-03-05
4	RF Cable (30 MHz - 1 GHz Radiated)	Canare Corporation	L-5D2W	N/A	2024-03-05
5	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2024-03-05
6	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2025-02-21
7	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	J0970749	2025-02-21
8	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2025-02-21
9	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2372/2	2025-02-21
10	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2371/2	2025-02-21
11	RF Cable (18 GHz - 26.5 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2025-02-21

-END-