

TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-02082
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1. Applicant

- Name : Pittasoft Co.,Ltd.
- Address : A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2025-04-07

2. Manufacturer

- Name : Pittasoft Co.,Ltd.
- Address : A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

3. Use of Report : For FCC & ISED Certification

4. Test Sample / Model: Car Dashcam / ELITE8-2CH

5. Date of Test : 2025-05-26 to 2025-06-03

6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.247
ANSI C63.10-2013, 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, Yong-in-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 Gwanyong Kim: (Signature)	Technical Manager Young-taek Lee: (Signature)
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2025-08-07

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-08-07	Issued (CTK-2025-02082)	all

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1. General Product Description

1.1 Applicant Information

Company	Pittasoft Co.,Ltd.
Contact Point	A 4th floor, ABN Tower, 331, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Contact Person	Name : Minho Shin E-mail : shinmh@pittasoft.com Tel : +82-31-8039-7789 Fax : -

1.2 Product Information

FCC ID	YCK-ELITE8
Certification Number ISED	23402-ELITE8
Product Description	Car Dashcam
Basic model (HVIN)	ELITE8-2CH
Variant Model name	ELITE8-1CH, ELITE8-2CH IR, ELITE8-2CH Truck, ELITE8-2CH Pro, ELITE8-1CH Pro, ELITE8-1CH Plus, ELITE8-2CH Plus, DR800 GOLD PRO-1CH, DR800 GOLD PRO-2CH (There are no technical differences. it's simply a derivative model name based on the seller. The difference between 1CH and 2CH of the variant model is the difference in the number of cameras.)
Operating Frequency	2 402 MHz - 2 480 MHz
RF Output Power	5.58 dBm (3.62 mW)
Antenna Specification	Antenna type : Chip Antenna Peak Gain : 0.02 dBi
Number of channels	40
Channel Spacing	2 MHz
Type of Modulation	GFSK
Power Source	DC 12 V, DC 24 V (A voltage regulator circuit is designed to supply 3.3 V to the RF section)
Hardware Rev	1.0
Software Rev(FVIN)	V1.000
SW provided bt the client	RTLBTAPP V 5.2.1.21
RF Power setting in Test SW	Le Tx Gain Index "7"



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1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	Samsung	NT350XCR	48JW9FFRA00628D
AC Adapter	Samsung	PA-1400-96	AD-4019A
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-CA40	-
Note Computer	HP	HP ProBook 440 G3	5CD6133422
AC Adapter	HP	HSTNN-LA40	-



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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.

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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			

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3.2 Testing Environment

Test Item	Test Date	Temperature (°C)	Relative Humidity (%)
6 dB Bandwidth & 99 % Bandwidth OUTPUT POWER Transmitter Power Spectral Density Conducted Spurious emission	2025-05-26, 2025-05-27	24±1, 25±1	46±3, 47±3
Transmitter emission (Radiated)	1) 9 kHz to 30 MHz	2025-05-29, 2025-06-03	25±1, 24±1
	2) 30 MHz to 1 GHz		45±3, 53±3
	3) 1 GHz to 18 GHz	2025-06-03	
	4) 18 GHz to 25 GHz		45±3
	5) Restricted Frequency Bands		
AC Conducted Emission	2025-05-30	23±1	49±3

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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 12 V power source, considering it the worst case.

Test Frequency

Lowest channel	Middle channel	Highest channel
2 402 MHz	2 440 MHz	2 480 MHz

Test mode

Mode	Duty Cycle	Duty Cycle Factor
1 Mbps	63.00 %	2.01 dB

10 LOG(1/x), where x is the duty cycle





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3.4 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)	4.11 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.48 dB (C.L.: Approx. 95 %, $k = 2$)
Line Conducted Emission	2.06 dB (C.L.: Approx. 95 %, $k = 2$)

3.5 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.0



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4. Technical Characteristic Test

4.1 6 dB 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 6.9.3

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 = 100 kHz(6 dB Bandwidth), 1 % to 5 % of the OBW(99 % Bandwidth)
- b) VBW \geq 3 x 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.

Limit : 6 dB Bandwidth

6 dB Bandwidth > 500kHz

Limit : 99 % Bandwidth

N/A



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Test Data :

Frequency [MHz]	6 dB Bandwidth [MHz]	99 % Bandwidth [MHz]	Result
2 402	0.734	1.052	Complies
2 440	0.721	1.047	
2 480	0.730	1.045	

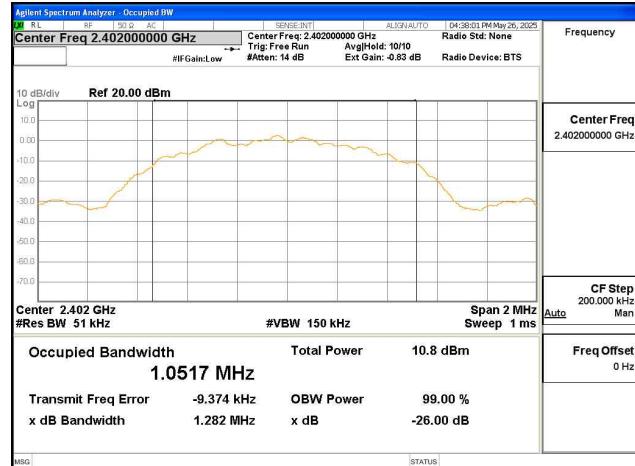
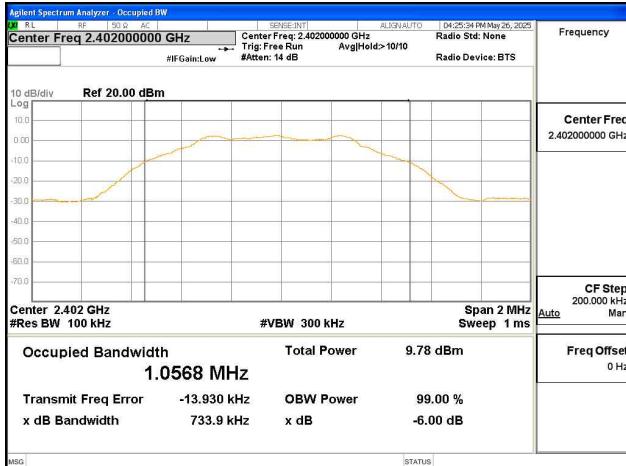
See next pages for actual measured spectrum plots.

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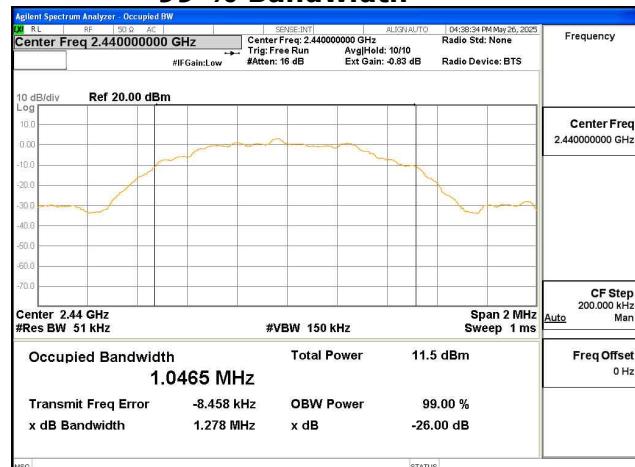
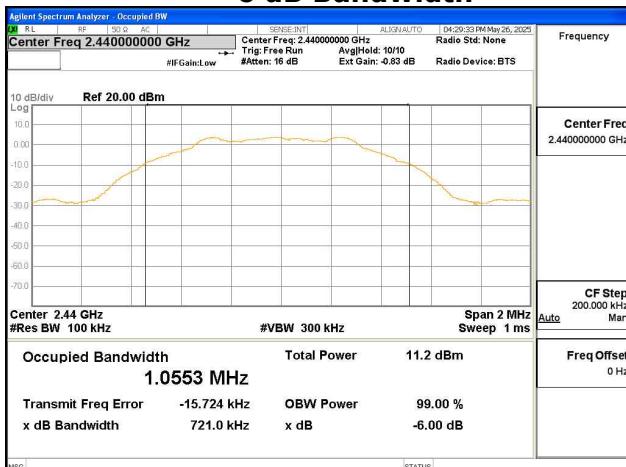
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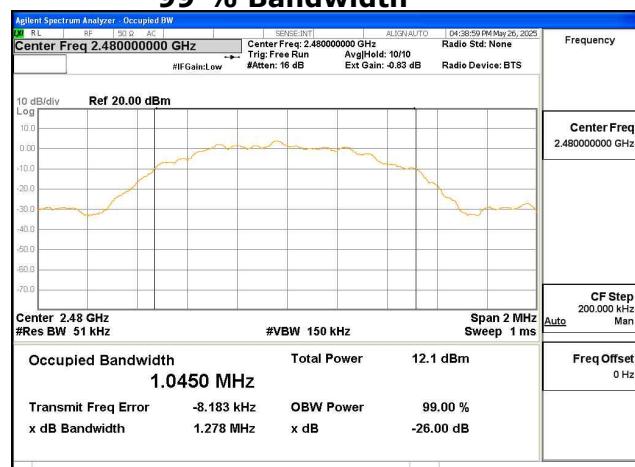
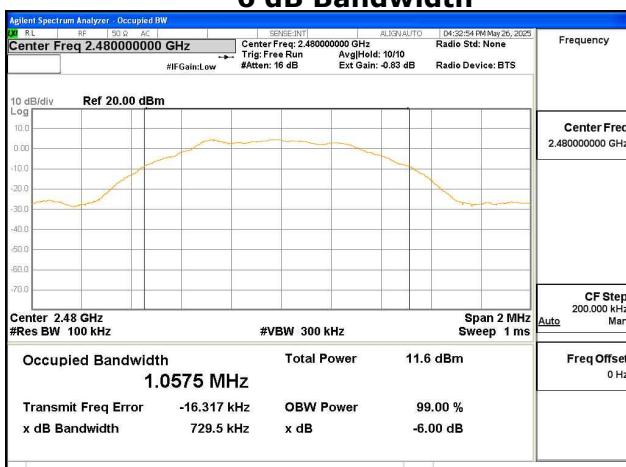
Lowest Frequency (2 402 MHz) 6 dB Bandwidth 99 % Bandwidth



Middle Frequency (2 440 MHz) 6 dB Bandwidth 99 % Bandwidth



Highest Frequency (2 480 MHz) 6 dB Bandwidth 99 % Bandwidth



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4.2 Maximum peak Conducted Output Power

Test Procedures

KDB 558074 - Section 8.3.1.1
ANSI C63.10-2013 - Section 11.9.1.1
RSS-Gen - Section 6.12

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Test Settings:

Center frequency = the highest, middle and the lowest channels

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

Limit :

Maximum Output Power < 1 W (30 dBm)

Test Data :

Frequency [MHz]	Maximum peak Conducted Output Power		Result
	[dBm]	[mW]	
2 402	4.415	2.764	Complies
2 440	4.908	3.096	
2 480	5.582	3.616	

See next pages for actual measured spectrum plots.



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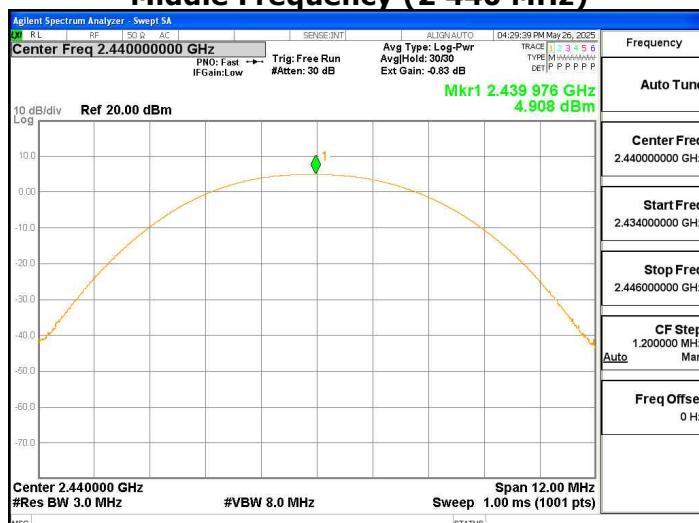
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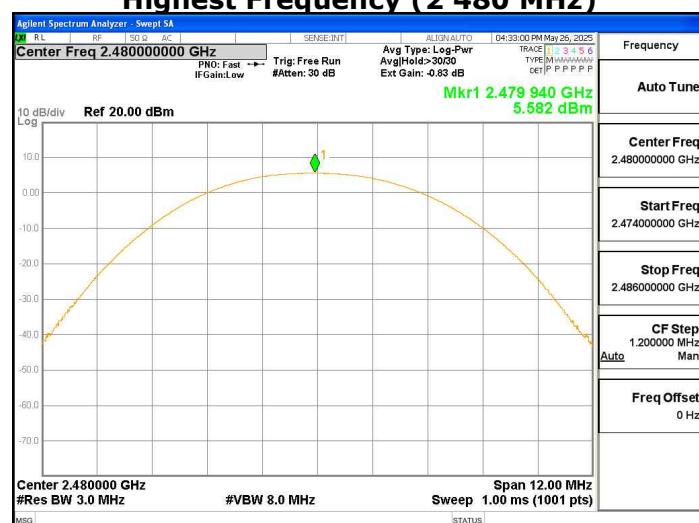
Lowest Frequency (2 402 MHz)



Middle Frequency (2 440 MHz)



Highest Frequency (2 480 MHz)



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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 :

Power Spectral Density < 8 dBm @ 3 kHz BW

Test Data :

Frequency [MHz]	Power Spectral Density [dBm]	Result
2 402	-10.405	Complies
2 440	-9.837	
2 480	-9.657	

See next pages for actual measured spectrum plots.

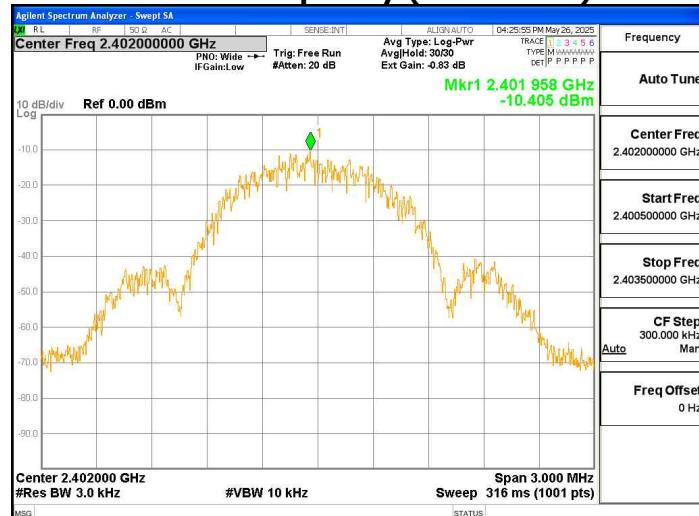


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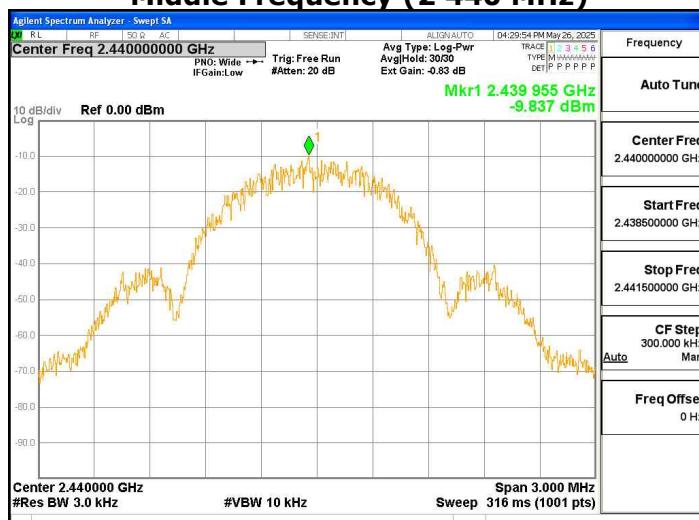
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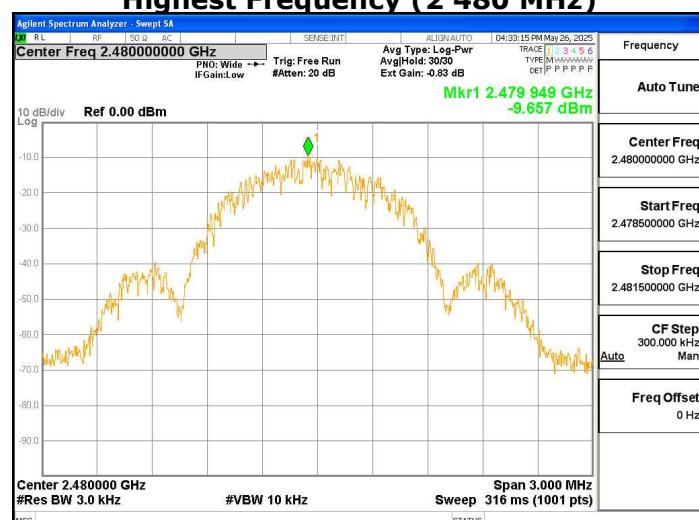
Lowest Frequency (2 402 MHz)



Middle Frequency (2 440 MHz)



Highest Frequency (2.480 MHz)





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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 Unwanted emission from the EUT were measured according to the dictates PKPSD measurement procedure in section 11.11 of ANSI C63.10-2013.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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 < 20 dBc

Test results: Complies

- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20 dB lower than the highest in-band spectral density. Therefore the applying equipment meets the requirement.

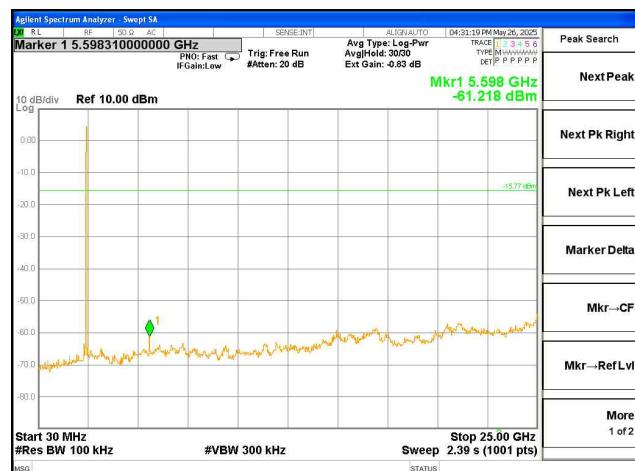
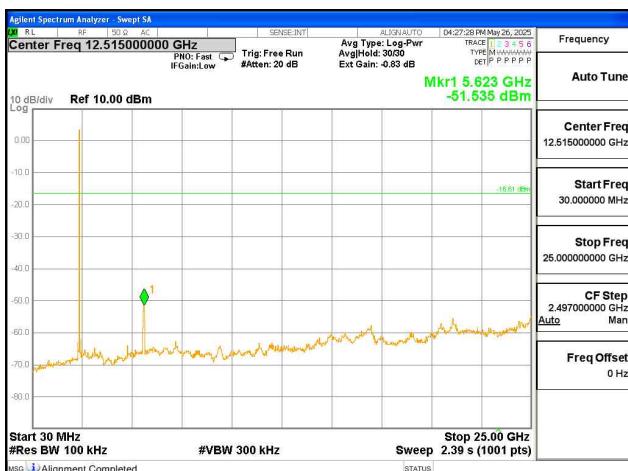
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4.5 Radiated Emission

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 ~ 26.5 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 ~ 26.5 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)



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

Frequency Range = 1 GHz ~ 26.5 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
1 Mbps	2.01 dB

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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:

Table 1. Restricted Frequency Bands (FCC)

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

Table 2. Restricted Frequency Bands (ISED)

MHz	MHz	MHz	MHz	MHz	GHz
0.009 - 0.110	8.362 - 8.366	73 - 74.6	960 - 1 427	3 500 - 4 400	9.0 - 9.2
0.495 - 0.505	8.37625 - 8.38675	74.8 - 75.2	1 435 - 1 626.5	4 500 - 5 150	9.3 - 9.5
2.1735 - 2.1905	8.41425 - 8.41475	108 - 138	1 645.5 - 1 646.5	5 350 - 5 460	10.6 - 12.7
4.125 - 4.128	12.29 - 12.293	149.9 - 150.05	1 660 - 1 710	7 250 - 7 750	13.25 - 13.4
3.020 - 3.026	12.51975 - 12.52025	156.52475 - 156.52525	1 718.8 - 1 722.2	8 025 - 8 500	14.47 - 14.5
4.17725 - 4.17775	12.57675 - 12.57725	156.7 - 156.9	2 200 - 2 300		15.35 - 16.2
4.20725 - 4.20775	13.36 - 13.41	162.0125 - 167.17	2 310 - 2 390		17.7 - 21.4
5.677 - 5.683	16.42 - 16.423	167.72 - 173.2	2 483.5 - 2 500		22.01 - 23.12
6.215 - 6.218	16.69475 - 16.69525	240 - 285	2 655 - 2 900		23.6 - 24.0
6.26775 - 6.26825	16.80425 - 16.80475	322 - 335.4	3 260 - 3 267		31.2 - 31.8
6.31175 - 6.31225	25.5 - 25.67	399.9 - 410	3 332 - 3 339		36.43 - 36.5
8.291 - 8.294	37.5 - 38.25	608 - 614	3 345.8 - 3 358		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.

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*Certain frequency bands listed in Table 1 and in band above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus

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 3 :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 3. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 3. General Field Strength Limits for Licence-Exempt Transmitters (FCC)

Frequency(MHz)	Field Strength (μ V/m)	Field Strength (dB μ V/m)	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	48.5 – 13.8	300
0.490-1.705	24000/F(kHz)	33.8 – 23	30
1.705-30	30	29.5	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 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

**Table 4. General field strength limits at frequencies below 30 MHz (ISED)**

Frequency(kHz)	Magnetic Field Strength (uV/m)	Magnetic Field Strength (dBuA/m)	Field Strength (dBuV/m)**	Deasurement Distance (meters)
9 - 490	6.37/F(kHz)	-3 ~ -37.7	48.5 ~ 13.8	300
490 - 1705	63.7/F(kHz)	-17.7 ~ -28.6	33.8 ~ 23	30
1.705 - 30	0.08	-21.9	29.5	30

**Field Strength (dBuV/m) : Magnetic Field Strength (dBuA/m) + 51.5 (conversion factor).

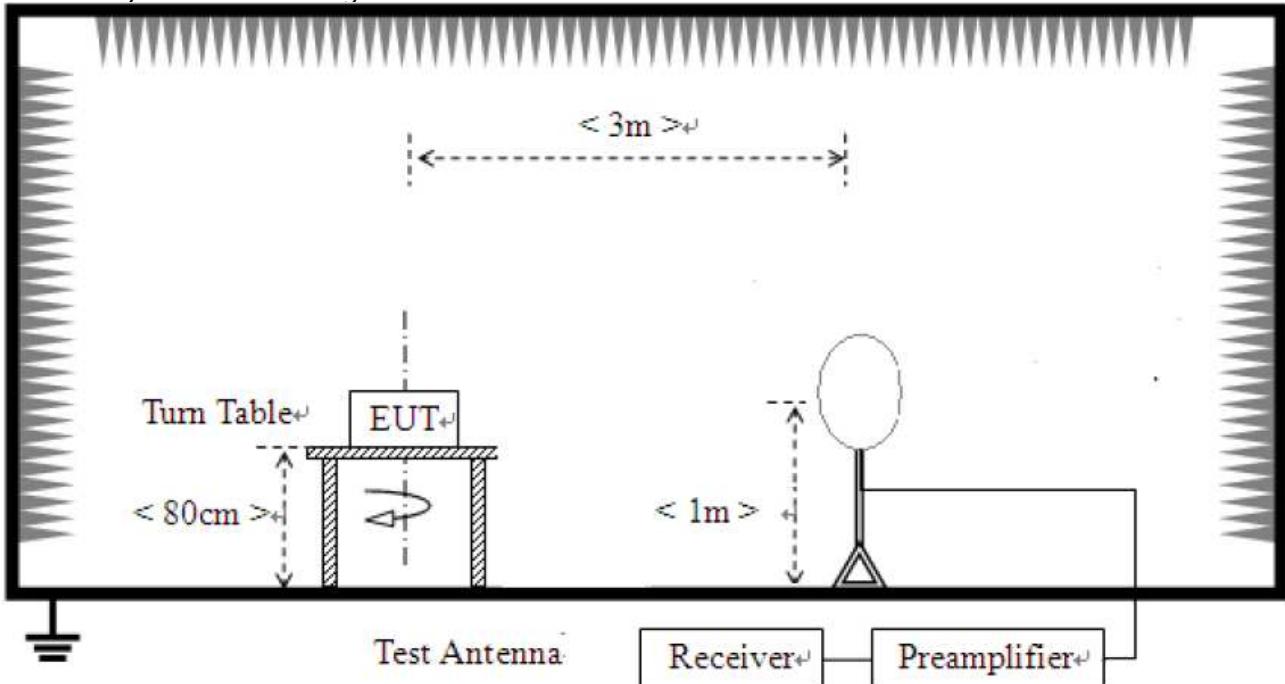
The limit of 30 MHz or more is the same as Table 3.

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@3 m (AV) and 74 dBuV/m@3 m (PK)
- 3) For measurement above 1 GHz, the resolution bandwidth is set to 1 MHz and video bandwidth is set to 3 MHz for peak measurement.

Test Setup:

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



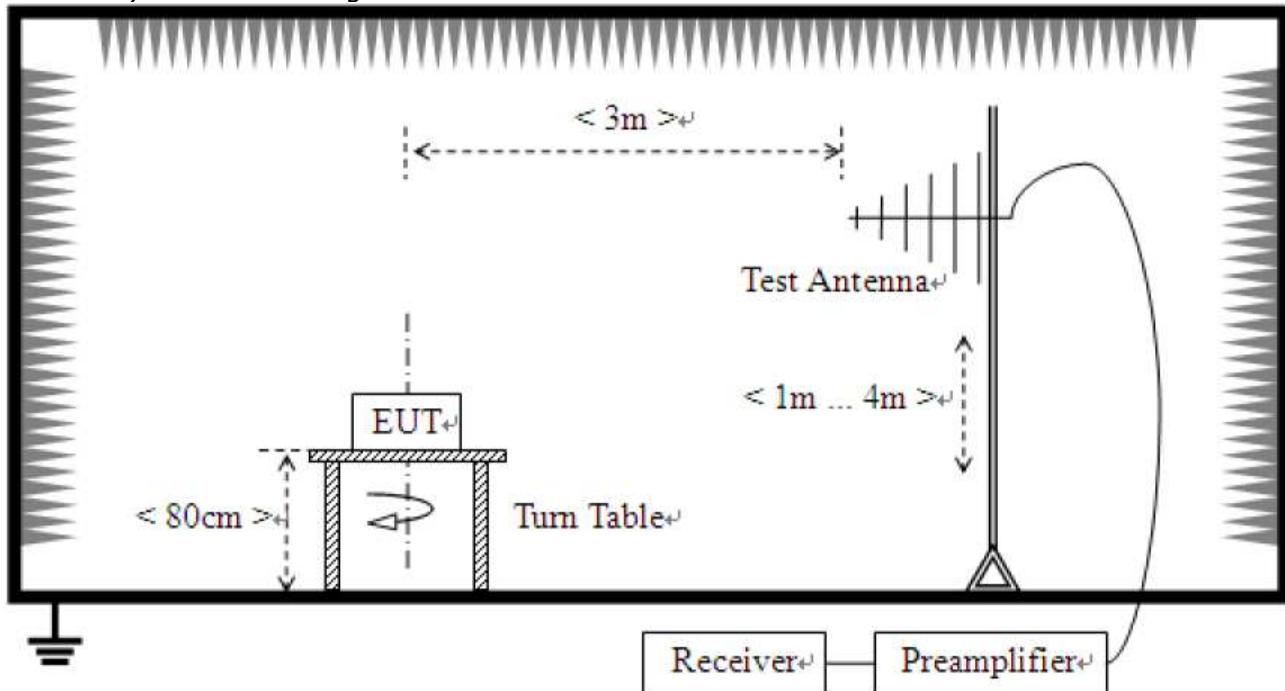


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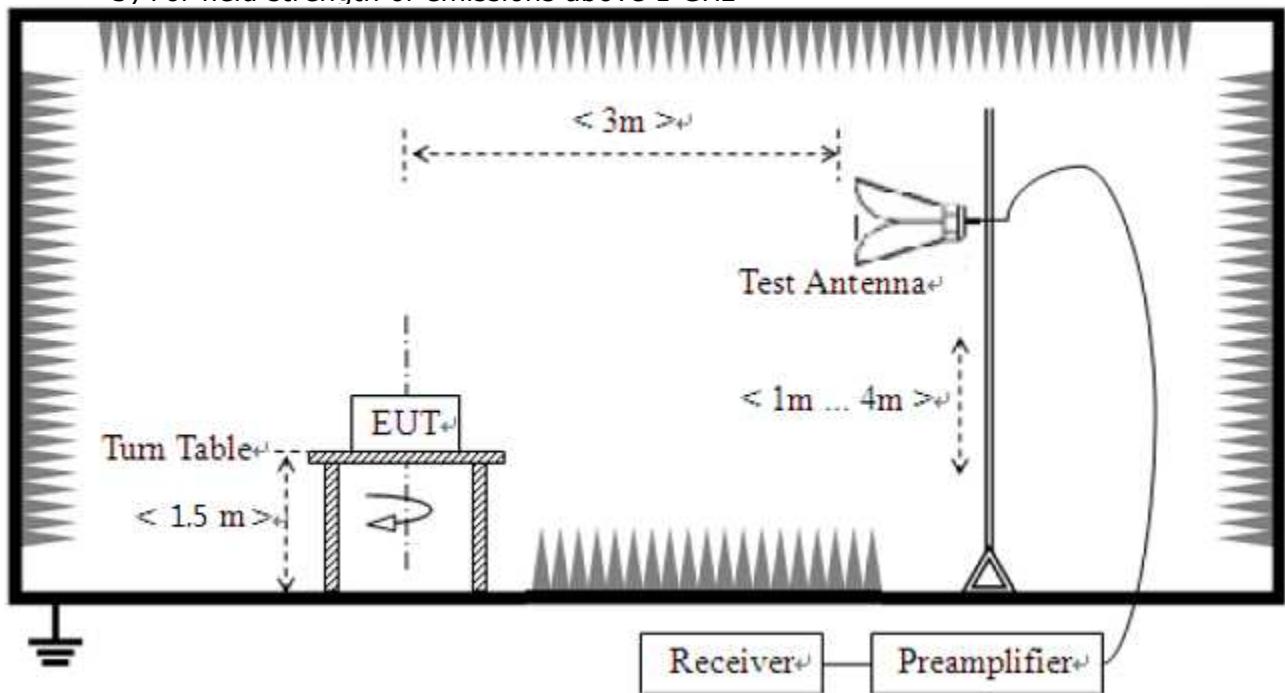
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2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



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Test results

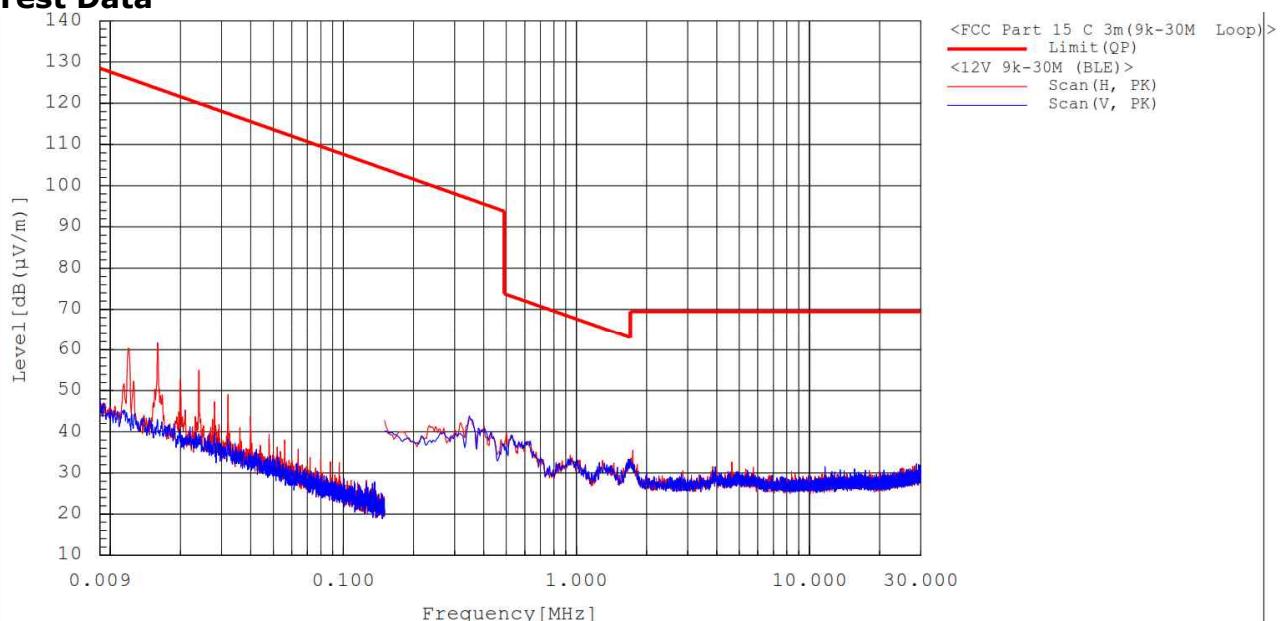
1) 9 kHz to 30 MHz

Test mode : Transmitter Middle Channel(Worst case)

The requirements are:

Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(μV/m)]	Limit [dB(μV/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 positon(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
4. This data is the Peak(PK) value.

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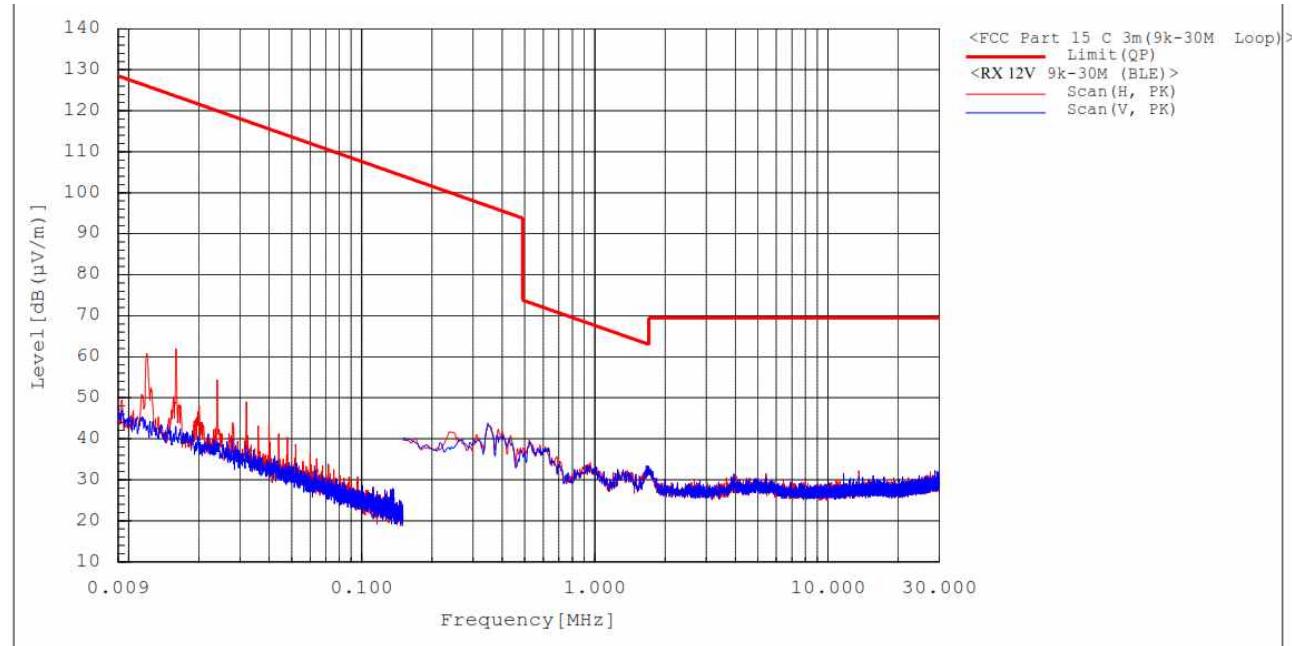
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Test mode : Receiver Middle Channel(Worst case)

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.

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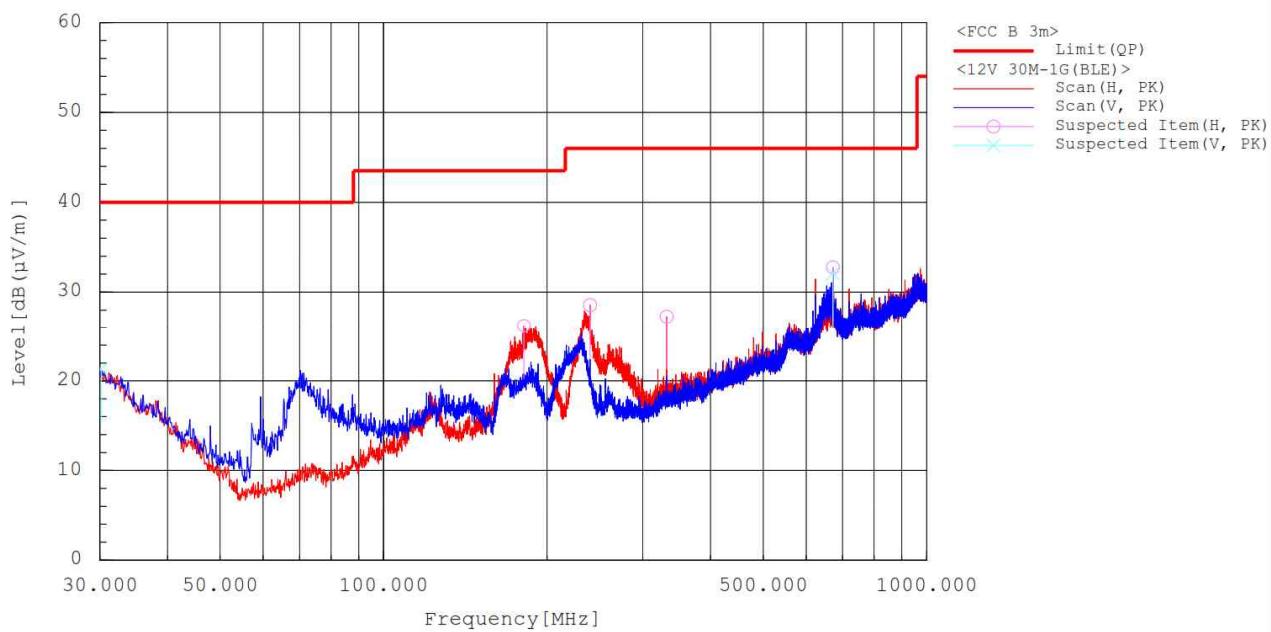
2) 30 MHz to 1 GHz

Test mode : Transmitter Middle Channel(Worst case)

The requirements are:

Complies

Test Data



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]
1	30.194	V	27.6	-6.3	21.3	40.0	18.7	100.0	304.6
2	181.320	H	41.1	-14.9	26.2	43.5	17.3	200.0	0.8
3	240.005	H	40.5	-11.9	28.6	46.0	17.4	100.0	1.8
4	332.155	H	36.3	-9.0	27.3	46.0	18.7	100.0	201.0
5	672.043	H	33.5	-0.7	32.8	46.0	13.2	100.0	184.5
6	672.043	V	32.8	-0.7	32.1	46.0	13.9	100.0	359.1

Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(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
4. This data is the Peak(PK) value.

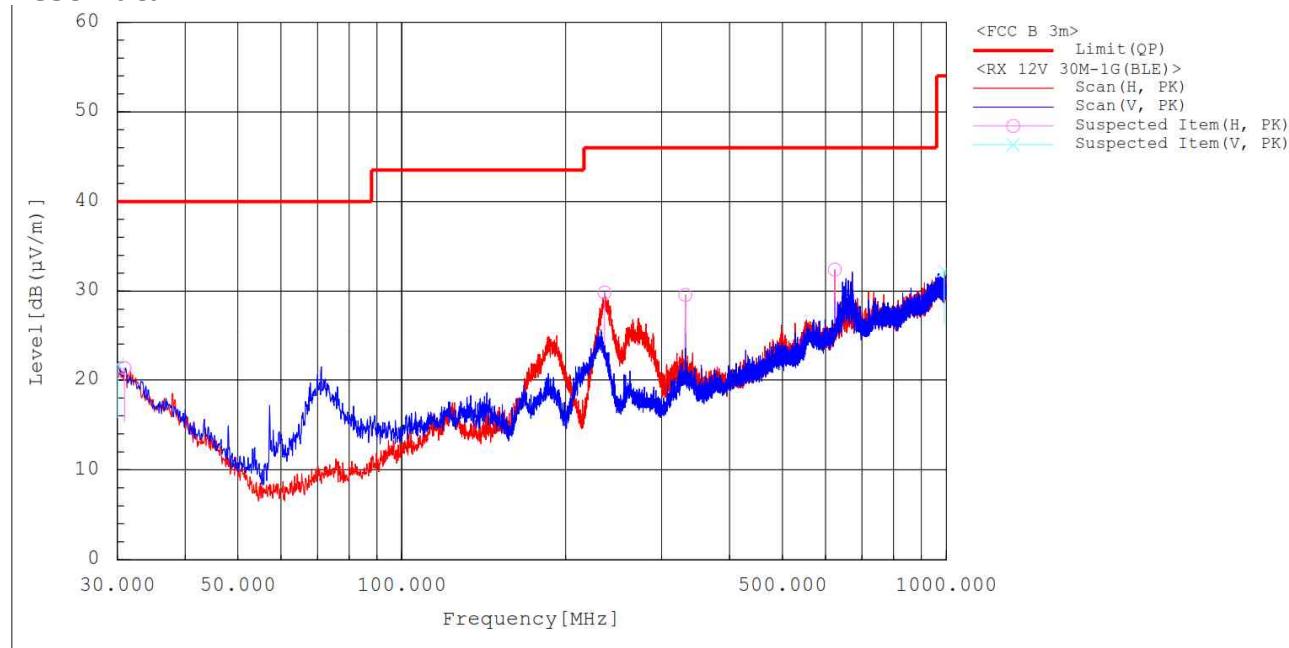
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Test mode : Receiver_Middle Channel(Worst case)

The requirements are:

 Complies**Test Data****Spectrum Selection**

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle
			PK		PK				
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]
1	30.097	V	28.0	-6.3	21.7	40.0	18.3	99.9	278.6
2	30.970	H	28.0	-6.7	21.3	40.0	18.7	299.9	292.6
3	235.737	H	42.3	-12.4	29.9	46.0	16.1	99.9	0.0
4	331.670	H	38.6	-9.0	29.6	46.0	16.4	99.9	44.5
5	624.028	H	34.0	-1.6	32.4	46.0	13.6	99.9	268.1
6	991.755	V	26.1	6.2	32.3	54.0	21.7	400.1	315.1

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

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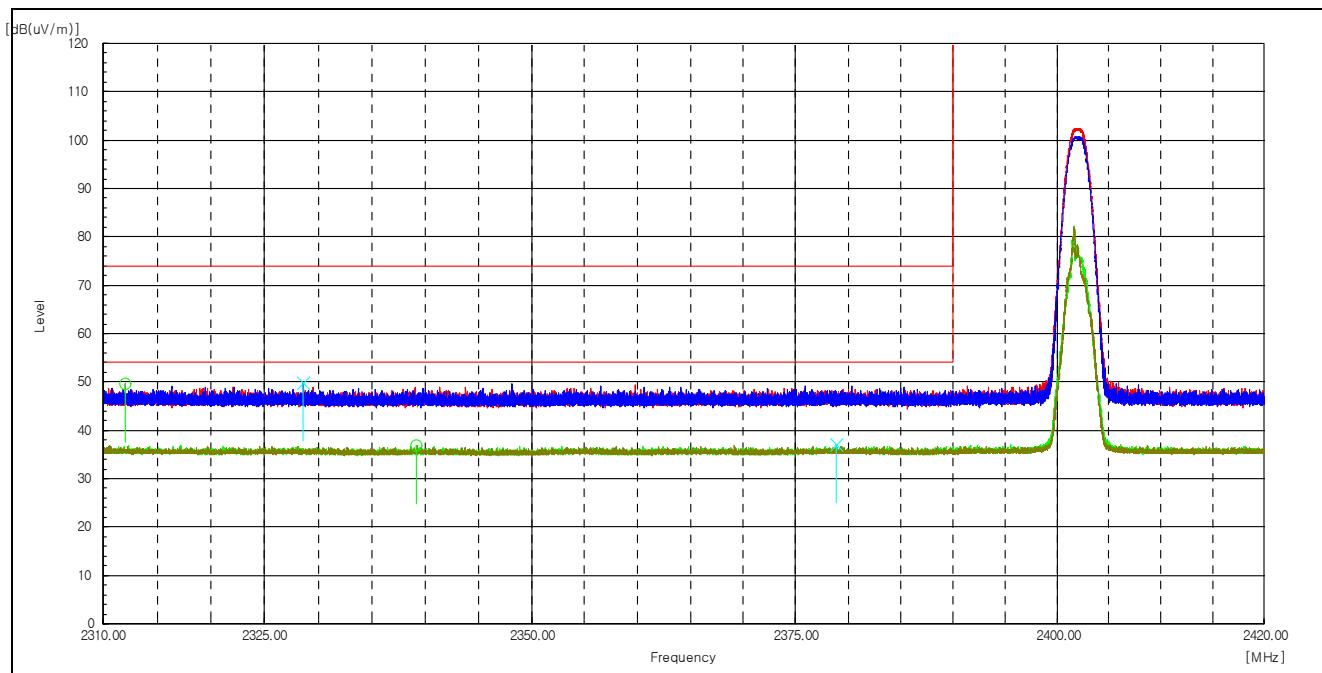
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3) 2 310 MHz to 2 390 MHz

The requirements are:

Complies

Test mode : Transmitter_Lowest Channel



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	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]	Note
2 312.01	H	54.4	-4.7	49.7	-----	74.0	-----	24.3	-----	Peak
2 328.64	V	54.7	-4.8	49.9	-----	74.0	-----	24.1	-----	Peak
2 339.15	H	41.7	-4.8	-----	36.9	-----	54.0	-----	17.1	Average
2 378.92	V	41.6	-4.6	-----	37.0	-----	54.0	-----	17.0	Average

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. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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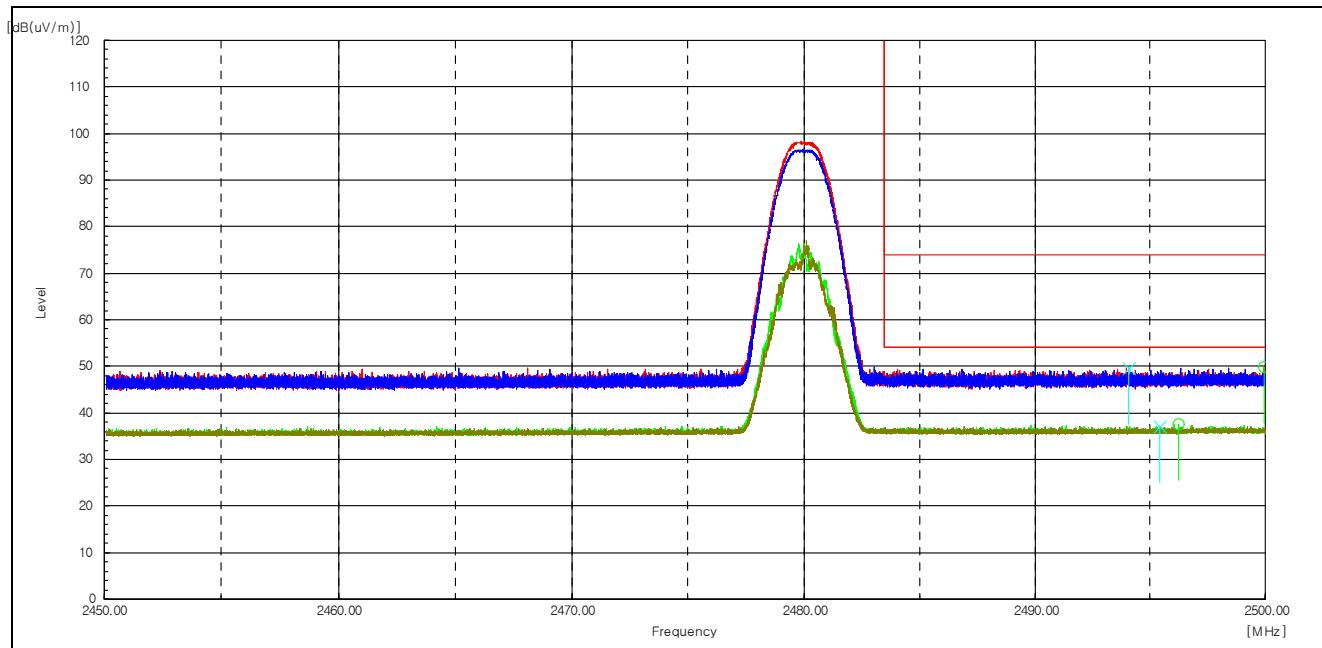
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4) 2 483.5 MHz – 2 500 MHz

The requirements are:

Complies

Test mode : Transmitter_Highest Channel



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	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]	Note
2 485.7	H	55.8	-5.3	50.5	-----	74.0	-----	23.5	-----	Peak
2 490.6	V	53.8	-5.2	48.6	-----	74.0	-----	25.4	-----	Peak
2 498.5	V	41.4	-5.1	-----	36.3	-----	54.0	-----	17.7	Average
2 499.2	H	41.2	-5.1	-----	36.1	-----	54.0	-----	17.9	Average

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. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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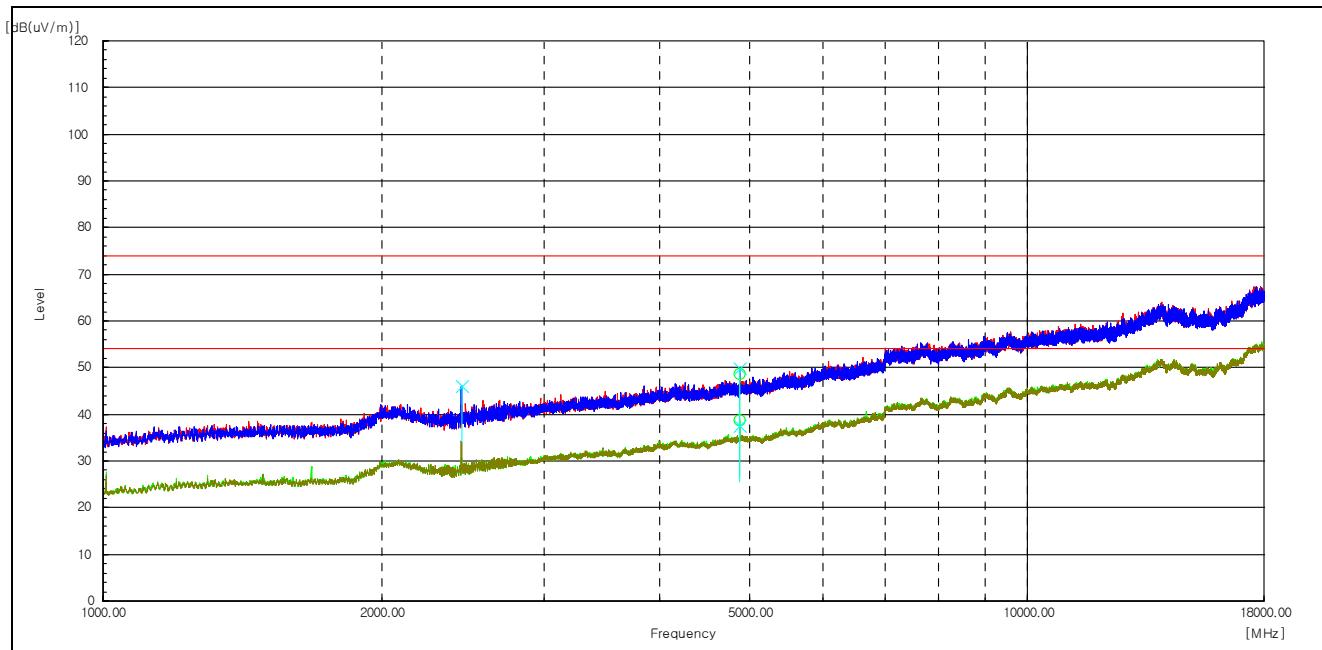
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5) 1 GHz to 18 GHz

The requirements are:

Complies

Test mode : Transmitter_Middle Channel(Worst case)



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]	Note
2440.298	V	50.8	-4.6	-----	46.2	-----	74	-----	-----	-----	Peak
4880.235	H	45.1	3.5	-----	48.6	-----	74	-----	25.4	-----	Peak
4880.235	H	35.2	3.5	2.01	-----	40.7	-----	54	-----	13.3	Average
4880.235	V	46.2	3.5	-----	49.7	-----	74	-----	24.3	-----	Peak
4879.555	V	34.1	3.5	2.01	-----	39.6	-----	54	-----	14.4	Average

Remarks

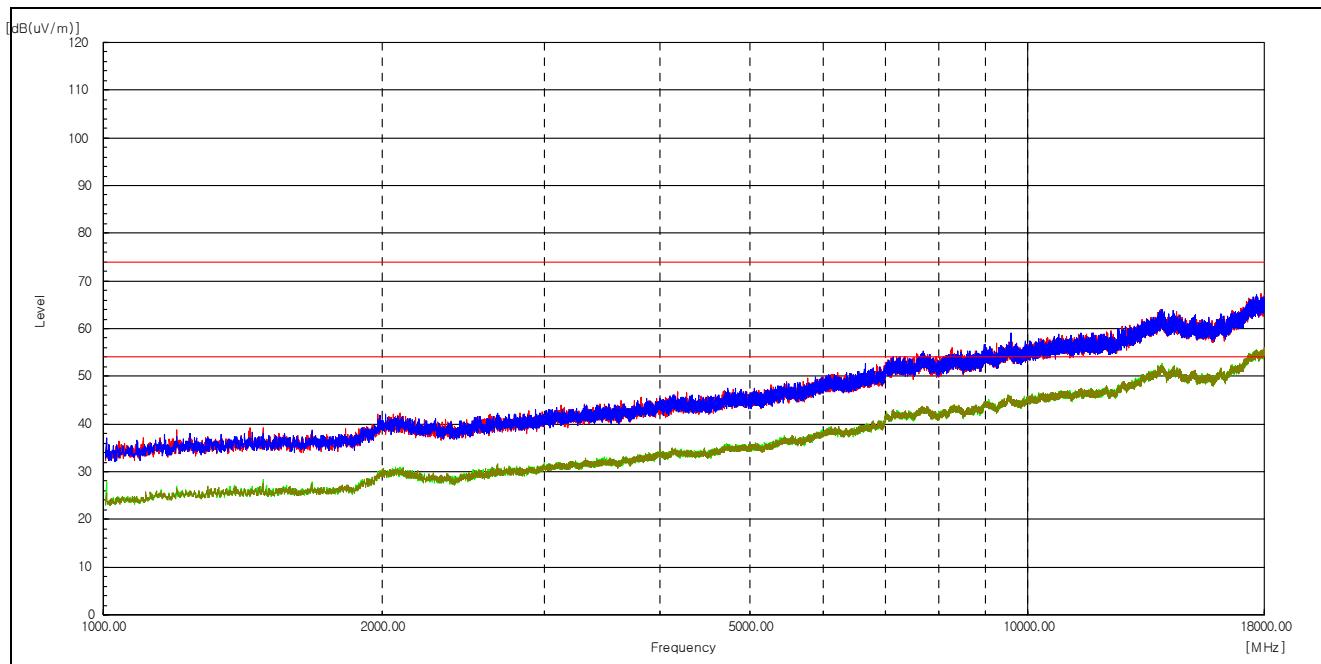
1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.
5. The first frequency in the table is the fundamental frequency.

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Test mode : Receiver_Middle Channel(Worst case)



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]	Note
No Peak Data											

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. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

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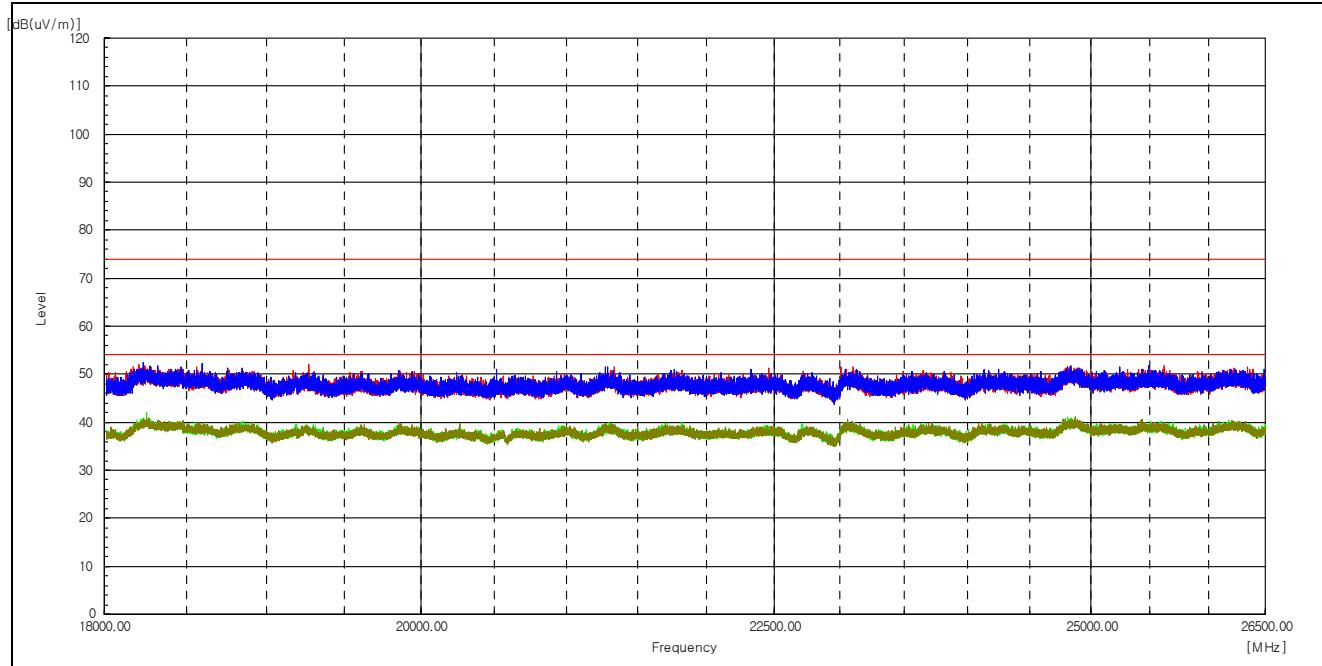
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6) 18.0 GHz to 26.5 GHz

Test mode : Transmitter_Middle Channel(Worst case)

The requirements are:

Complies



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]	Note
No Peak Data											

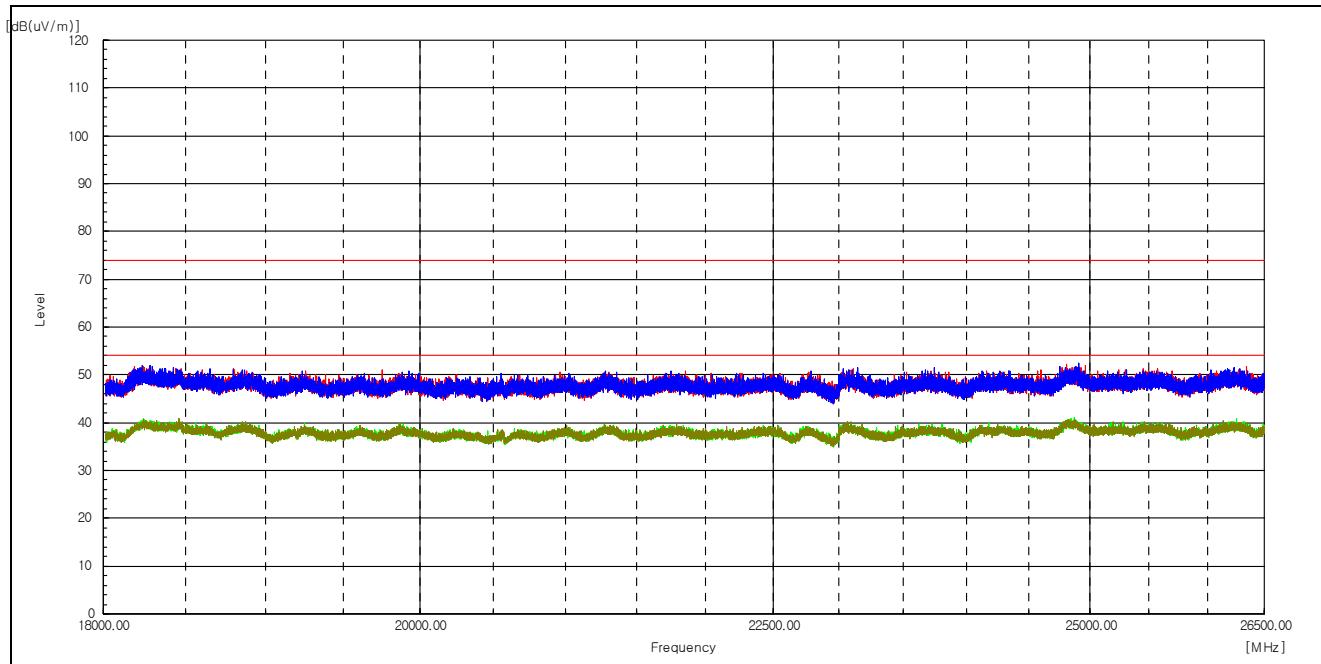
Remarks

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. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

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Test mode : Receiver_Middle Channel(Worst case)

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]	Note
-----------------	-----	----------------	---------------	------------------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------	------

No Peak Data

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. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain



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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 6.2.2

RSS-Gen - Section 8.8

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

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.**

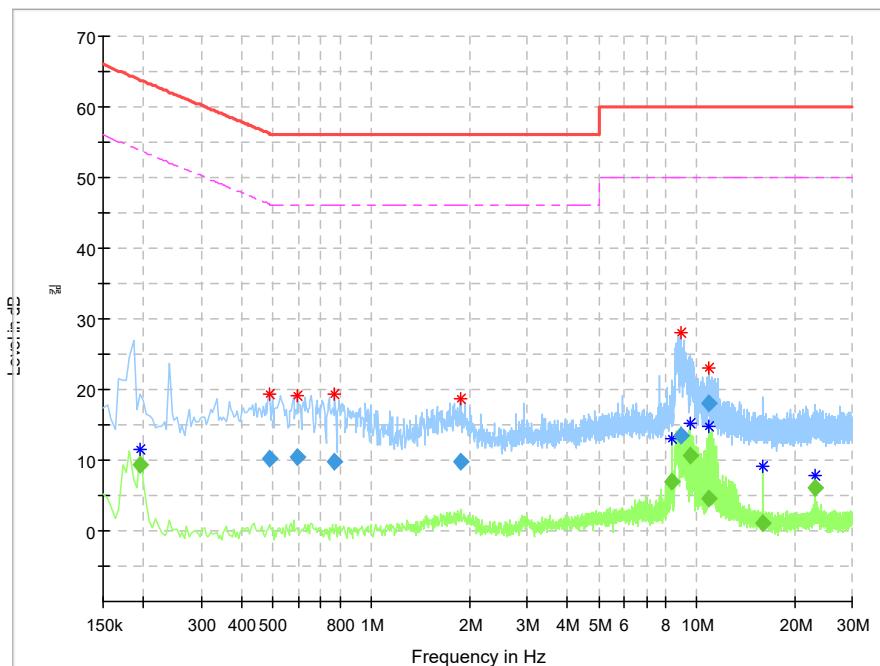
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Test Data

[LINE]

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.195000	---	9.24	53.82	44.58	15000.0	9.000	L1	ON	9.9
0.487500	10.31	---	56.21	45.90	15000.0	9.000	L1	ON	10.0
0.595500	10.45	---	56.00	45.55	15000.0	9.000	L1	ON	10.0
0.771000	9.83	---	56.00	46.17	15000.0	9.000	L1	ON	10.0
1.873500	9.83	---	56.00	46.17	15000.0	9.000	L1	ON	9.8
8.380500	---	7.06	50.00	42.94	15000.0	9.000	L1	ON	10.0
8.911500	13.43	---	60.00	46.57	15000.0	9.000	L1	ON	10.0
9.595500	---	10.75	50.00	39.25	15000.0	9.000	L1	ON	10.0
10.855500	18.04	---	60.00	41.96	15000.0	9.000	L1	ON	10.0
10.927500	---	4.51	50.00	45.49	15000.0	9.000	L1	ON	10.0
16.008000	---	1.01	50.00	48.99	15000.0	9.000	L1	ON	10.2
23.127000	---	6.12	50.00	43.88	15000.0	9.000	L1	ON	10.1

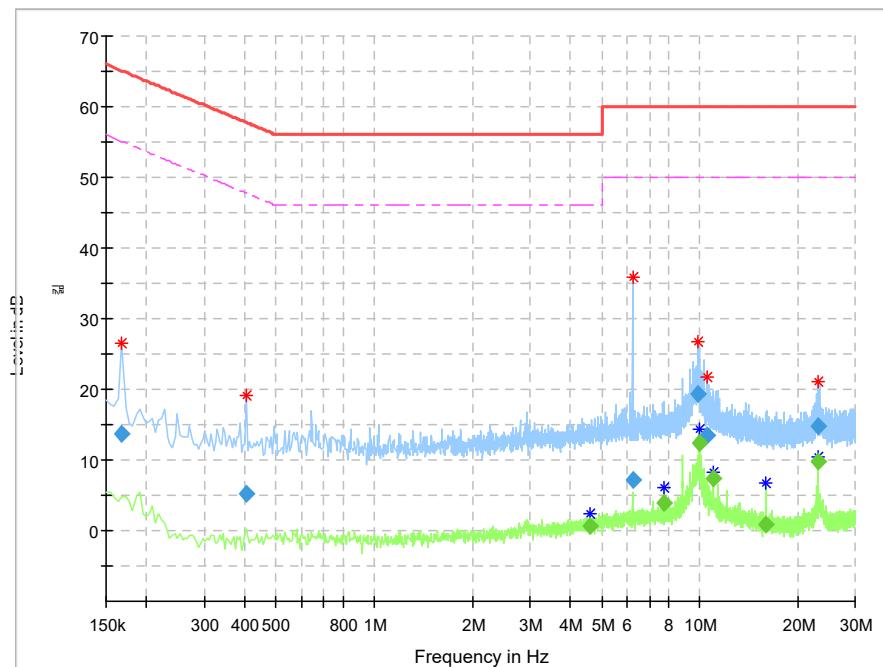
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[NEUTRAL]

Full Spectrum

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.168000	13.66	---	65.06	51.40	15000.0	9.000	N	ON	9.8
0.406500	5.19	---	57.72	52.52	15000.0	9.000	N	ON	9.9
4.600500	---	0.63	46.00	45.37	15000.0	9.000	N	ON	9.8
6.211500	7.24	---	60.00	52.76	15000.0	9.000	N	ON	9.9
7.737000	---	3.95	50.00	46.05	15000.0	9.000	N	ON	9.9
9.879000	19.31	---	60.00	40.69	15000.0	9.000	N	ON	9.9
9.946500	---	12.36	50.00	37.64	15000.0	9.000	N	ON	9.9
10.572000	13.50	---	60.00	46.50	15000.0	9.000	N	ON	9.9
11.053500	---	7.29	50.00	42.71	15000.0	9.000	N	ON	10.0
15.976500	---	0.86	50.00	49.14	15000.0	9.000	N	ON	10.2
23.127000	---	9.82	50.00	40.18	15000.0	9.000	N	ON	10.3
23.127000	14.69	---	60.00	45.31	15000.0	9.000	N	ON	10.3

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APPENDIX A – Test Equipment Used For Tests

No.	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	US46470483	2024-11-26	2025-11-26
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2025-03-21	2026-03-21
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2025-04-28	2026-04-28
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	PASTERNACK	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	2025-03-11	2026-03-11
11	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2025-03-13	2026-03-13
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	EMI TEST RECEIVER	Rohde & Schwarz	ESR3	102826	2025-04-28	2026-04-28
15	LISN	Rohde & Schwarz	ENV216	102698	2025-04-28	2026-04-28
16	Band Reject Filter	Micro Tronics	BRM50702	G233	2024-11-25	2025-11-25
17	DC Power Supply	Agilent	E3632A	MY40008023	2025-03-12	2026-03-12
18	Dual-Tracking DC Power Supply	Topward Electric Instruments Co.,Ltd.	6303D	802204	2025-03-13	2026-03-13

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2025-05-26
2	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2025-03-05
3	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	L-5D2W	N/A	2025-03-05
4	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2025-02-21
5	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	J0970749	2025-02-21
6	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2025-02-21
7	RF Cable (18 GHz -26.5 GHz Radiated)	Junkosha Inc.	MWX221	2008S249	2025-02-21
8	RF Cable (18 GHz - 26.5 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2371/2	2025-02-21
9	RF Cable (18 GHz -26.5 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2025-02-21

-END-