TEST REPORT

KES Co., Ltd.
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Anyang-si, Gyeonggi-do, 14057, Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-341-3838

■ **FCC TEST REPORT**

1. Client

○ Name : HUVITZ Co., Ltd.

○ Address : 38, Burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

2. Sample Description

○ Product item : Vision Screener

○ Model name : HVS-1

○ Manufacturer etc. : HUVITZ Co., Ltd.

3. Date of test : 2025.12.31 ~ 2026.01.02

4. Location of Test : ☑ Permanent Testing Lab ☐ On Site Testing

○ Adress : 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, Korea

5. FCC Rule part(s) : Part 15 Subpart E 15.407

6. Test result : PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Affirmation	Tested by Name : Gu-Bong, Kang (Signature) [강구봉]2026/01/06	Technical Manager Name : Yeong-Jun Cho (Signature) [조영준]2026/01/06

2026. 01. 06.

KES Co., Ltd.

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
2026.01.06	KES-RF250896	Initial

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1. General information

Applicant:	HUVITZ Co., Ltd.
Applicant address:	38, Burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea
Test site:	KES Co., Ltd.
Test site address:	☐ #3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea ☒ 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, Korea
Test Facility	FCC Accreditation Designation No.: KR0100, Registration No.: 444148
FCC rule part(s):	15.407
FCC ID:	2A8FTHVS1
Module's FCC ID:	Z64-WL18DBMOD
Test device serial No.:	☒ Production ☐ Pre-production ☐ Engineering

1.1. EUT description

Equipment under test	Vision Screener	
Frequency range & Number of channels	2.4 GHz band	2 402 MHz ~ 2 480 MHz (BDR, EDR) : 79 ch
		2 412 MHz ~ 2 462 MHz (802.11b/g/n_HT20) : 11 ch
		2 422 MHz ~ 2 452 MHz (802.11n_HT40) : 7 ch
	UNII-1	**5 180 MHz ~ 5 240 MHz (802.11a/n_HT20) : 4 ch**
		5 190 MHz ~ 5 230 MHz (802.11n_HT40) : 2 ch
Model	HVS-1	
Modulation technique	GFSK, π/4DQPSK, 8DPSK, DSSS, **OFDM**	
Antenna specification	2.4 GHz band	PIFA Antenna // Peak gain: 2.0 dBi
	UNII-1	PIFA Antenna // Peak gain: 3.9 dBi
Power source	Operating : DC 10.9 V (Battery)	
	Charging : AC/DC Adapter (AC 120 V input, DC 15 V output)	
H/W version	Ver Rev.A	
S/W version	V1.00.01	

1.2. Test configuration

The **HUVITZ Co., Ltd. // Vision Screener // HVS-1 // FCC ID: 2A8FTHVS1** was tested according to the specification of EUT, the EUT must comply with following standards and KDB documents.

FCC Part 15.407
KDB 558074 D01 v05 r02
ANSI C63.10-2020

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1.3. Information about derivative model

N/A.

1.4. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
AC/DC Adapter	DELTA ELECTRONICS, INC.	MDS-030AAC15	LZYD43X00D7	AC 120 V input, DC 15 V output

1.5. Device modifications

N/A

1.6. Sample calculation

Where relevant, the following sample calculation is provided
For all conducted test items :

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

For Radiation test :
Field strength level (�dB㎶/m) = Measured level (㎦㎶) + Antenna factor (㎦) + Cable loss (㎦) – Amplifier gain (㎦)

1.7. Measurement Uncertainty

Test Item		Uncertainty
Uncertainty for Conduction emission test		2.22 ㎦ (SHIELD ROOM #6)
Uncertainty for Radiation emission test (include Fundamental emission)	Below 1 ㎓	4.04 ㎦ (SAC #6)
	Above 1 ㎓	5.32 ㎦ (SAC #5)
Note. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2.		

1.8. Worst case data rate

Worst-case data rates were:

SISO(Ant 2) 802.11a (6 Mbps)

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1.9. Frequency/channel operations

Ch.	Frequency (㎒)	Rate(Mbps)
00	2 402	BDR 1 Mbps, EDR 2 Mbps, EDR 3 Mbps
. .	. .	. .
40	2 442	BDR 1 Mbps, EDR 2 Mbps, EDR 3 Mbps
. .	. .	. .
78	2 480	BDR 1 Mbps, EDR 2 Mbps, EDR 3 Mbps

Ch.	Frequency (㎒)	Mode
1	2 412	802.11b/g/n_HT20
. .	. .	. .
6	2 437	802.11b/g/n_HT20
. .	. .	. .
11	2 462	802.11b/g/n_HT20

Ch.	Frequency (㎒)	Mode
3	2 422	802.11n_HT40
. .	. .	. .
6	2 437	802.11n_HT40
. .	. .	. .
9	2 452	802.11n_HT40

Ch.	Frequency (㎒)	Mode
36	**5 180**	**802.11a/n_HT20**
. .	. .	. .
44	**5 220**	**802.11a/n_HT20**
. .	. .	. .
48	**5 240**	**802.11a/n_HT20**

Ch.	Frequency (㎒)	Mode
38	**5 190**	**802.11n_HT40**
. .	. .	. .
46	**5 230**	**802.11n_HT40**

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1.10. Antenna information

Band	Mode	SISO		MIMO
		Antenna 1	Antenna 2	Antenna 1 + 2
2.4 ㎓ band	BDR, EDR	✓	×	×
	802.11b/g/n_HT40	✓	×	×
	802.11n_HT20	✓	×	✓
UNII-1 band	802.11a/n_HT20/n_HT40	✓	✓	×

✓ = Support; × = Not support

Antenna Model
Ant 0 : NANOBLADE INTERNAL EMBEDDED ANTENNA
Ant 1 : NANOBLADE INTERNAL EMBEDDED ANTENNA

Ant 1 Gain (㏈i)	Ant 2 Gain (㏈i)	Note
2.0	2.0	2 400 to 2 500 ㎒
3.9	3.9	5 150 to 5 350 ㎒

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2. Summary of tests

Section in FCC Part 15	Parameter	Test results
15.407(a)	26 ㏈ bandwidth & 99 % bandwidth	N/T[Note1]
15.407(a)	6 ㏈ bandwidth	N/T[Note1]
15.407(a)	Maximum conducted output power	N/T[Note1]
15.407(a)	Power spectral density	N/T[Note1]
15.407(g)	Frequency stability	N/T[Note1]
15.205, 15.209, 15.407(b)	Radiated restricted band and emission	Pass
15.207(a)	AC conducted emissions	Pass
15.203	Antenna Requirement	Pass

Note.

1. This product is equipped with an approved module, please refer to Module Report below for details. Report No. FR4O0971D

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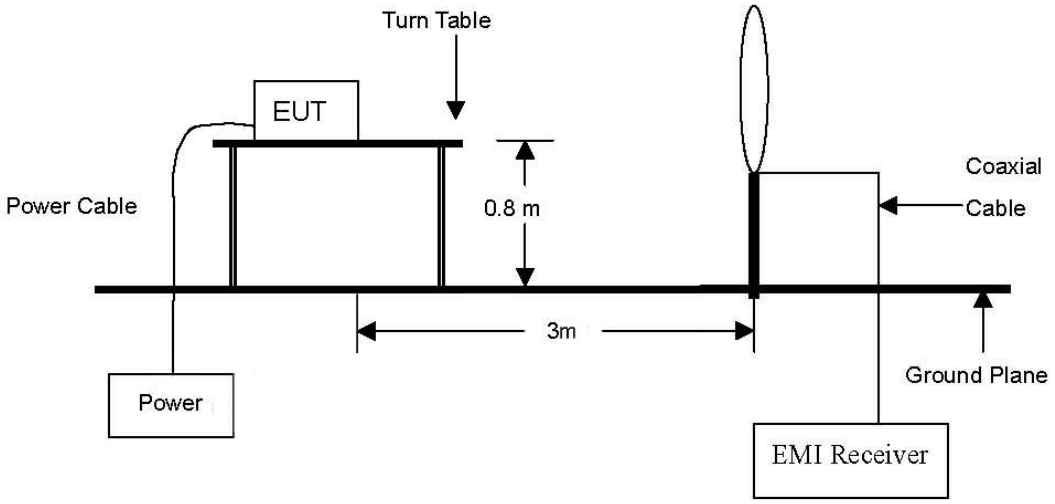
3. Test results

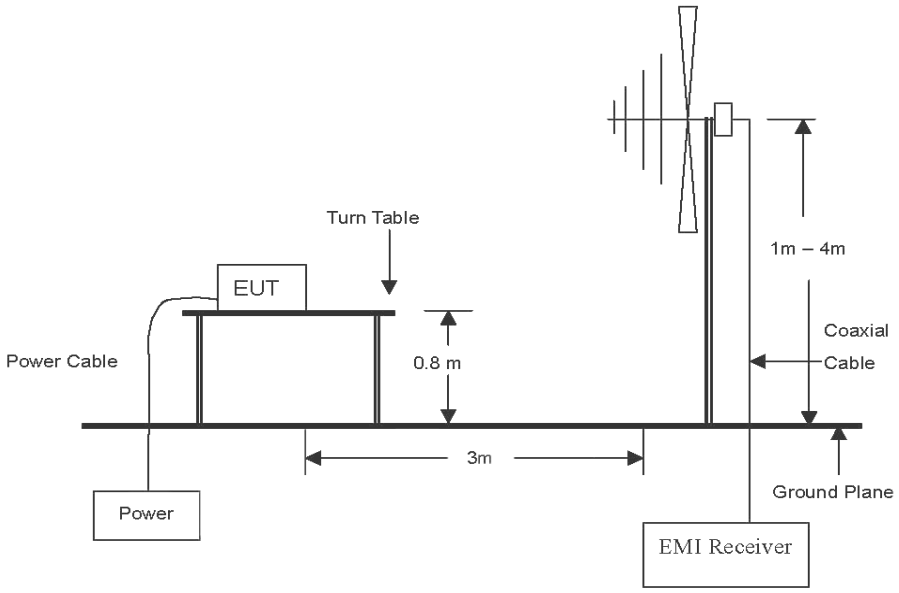
3.1. Radiated restricted band and emissions

Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ emissions.



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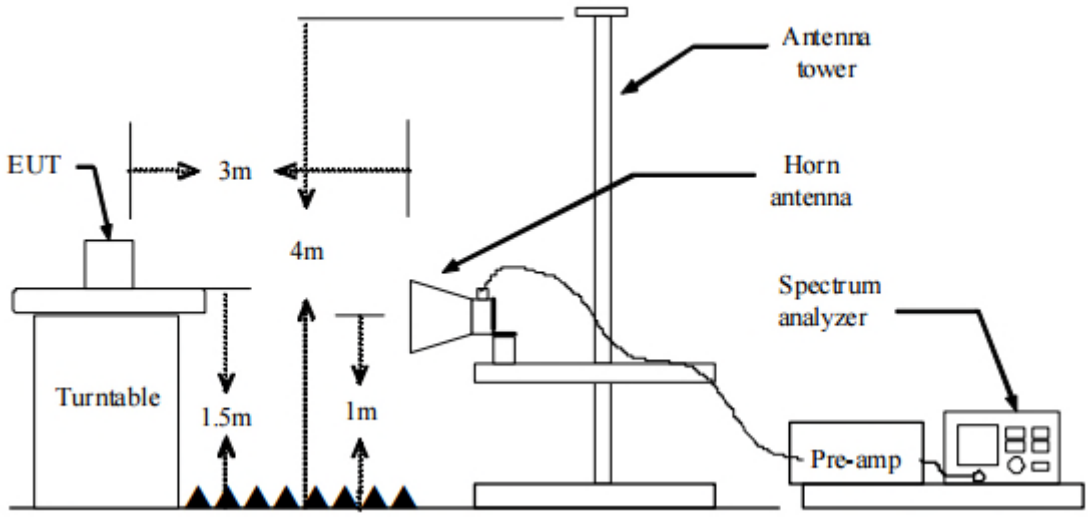
The diagram below shows the test setup that is utilized to make the measurements for emission from 1 ㎓ to the tenth harmonic of the highest fundamental frequency or to 40 ㎓ emissions, whichever is lower.



Test procedure

Radiated emissions from the EUT were measured according to the dictates in section 11.11 & 11.12 of ANSI C63.10-2020.

Test procedure below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel, ground parallel and perpendicular of the antenna are set to make the measurement. It was determined that **parallel** was worst-case orientation; therefore, all final radiated testing was performed with the EUT in **parallel.**
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum hold mode.

Test procedure above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground for 30 ㎒-1 ㎓ and 1.5 meters for above 1 ㎓ at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The antenna is a bi-log antenna, a horn antenna, and its height are varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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5. Spectrum analyzer settings for *f* < 1 ㎓:
   ① Span = wide enough to fully capture the emission being measured
   ② RBW = 120 ㎑
   ③ VBW ≥ RBW
   ④ Detector = quasi peak
   ⑤ Sweep time = auto
   ⑥ Trace = max hold
6. Spectrum analyzer settings for *f* ≥1 ㎓: Peak
   ① Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
   ② RBW = 1 ㎒
   ③ VBW ≥ 3 ㎒
   ④ Detector = peak
   ⑤ Sweep time = auto
   ⑥ Trace = max hold
   ⑦ Trace was allowed to stabilize

7. Spectrum analyzer settings for *f* ≥1 ㎓: Average
   ① Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
   ② RBW = 1 ㎒
   ③ VBW ≥ 3 × RBW
   ④ Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
   ⑤ Averaging type = power(i.e., RMS)
      1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
      2) Some instruments require linear display mode in order to use linear voltage averaging. Log or ㏈ averaging shall not be used.
   ⑥ Sweep = auto
   ⑦ Trace = max hold
   ⑧ Perform a trace average of at least 100 traces.
   ⑨ 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 percent duty cycle. The correction factor is computed as follows:
      1) If power averaging (RMS) mode was used in step ⑤, then the applicable correction factor is 10 log(1/x), where x is the duty cycle.
      2) If linear voltage averaging mode was used in step ⑤, then the applicable correction factor is 20 log(1/x), where x is the duty cycle.
      3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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Note.

1. *f* <30 ㎒, extrapolation factor of 40 ㏈/decade of distance. F_d = 40log(D_m/Ds)
   f ≥30 ㎒, extrapolation factor of 20 ㏈/decade of distance. F_d = 20log(D_m/Ds)
   Where:
   F_d = Distance factor in ㏈
   D_m = Measurement distance in meters
   D_s = Specification distance in meters
2. Field strength(㏈㎶/m) = Level(㏈㎶) + CF (㏈) + or DCF(㏈)
3. Margin(㏈) = Limit(㏈㎶/m) - Field strength(㏈㎶/m)
4. Emissions below 18 ㎓ were measured at a 3 meter test distance while emissions above 18 ㎓ were measured at a 1 meter test distance with the application of a distance correction factor.
5. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that **X orientation** was worst-case orientation; therefore, all final radiated testing was performed with the EUT in **X orientation.**
6. The worst-case emissions are reported however emissions whose levels were not within 20 ㏈ of respective limits were not reported.
7. According to exploratory test no any obvious emission were detected from 9 ㎑ to 30 ㎒. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Limit

According to 15.209(a), for an intentional radiator devices, the general required of field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values：

Frequency (㎒)	Distance (Meters)	Radiated (㎶/m)
0.009 ~ 0.490	300	2400/F(㎑)
0.490 ~ 1.705	30	24000/F(㎑)
1.705 ~ 30.0	30	30
30 ~ 88	3	100**
88 ~ 216	3	150**
216 ~ 960	3	200**
Above 960	3	500

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

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Duty cycle

Regarding to KDB 558074 D01_v05 r02, 6. Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on- and off-times of the transmitted signal.

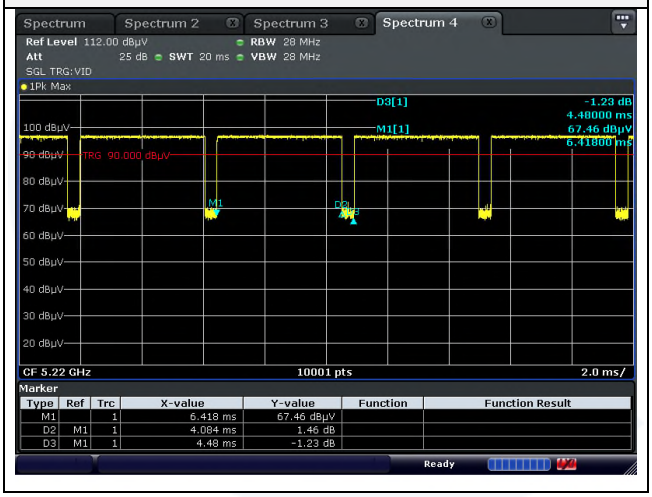
b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on- and off-times of the transmitted signal.

Mode	T_{on} time (㎳)	Period (㎳)	Duty cycle (Linear)	Duty cycle (%)	Duty cycle correction factor (㏈)
SISO (Ant 2) 802.11a (6 Mbps)	4.084	4.480	0.91	91.16	0.41

Duty cycle (Linear) = T_{on} time/Period

DCF(Duty cycle correction factor (㏈)) = 10log(1/duty cycle)

BDR (1 Mbps)



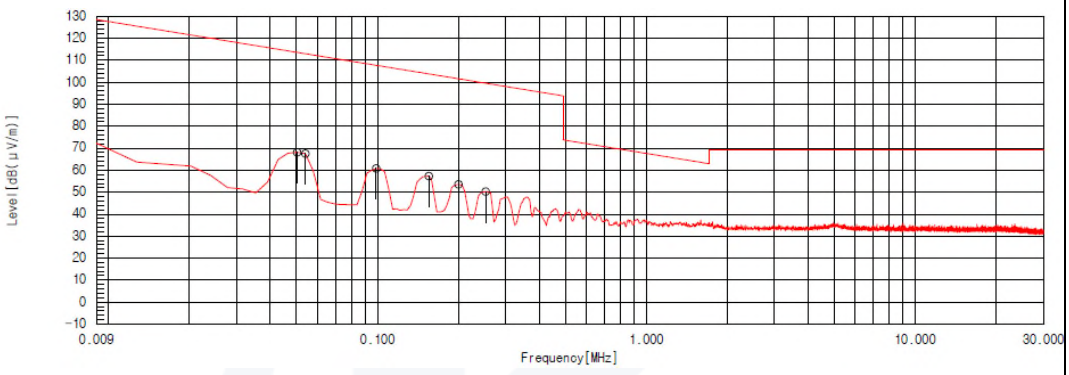
Note.

1. Tested with the maximum duty that can be set on the EUT.

Test results (Below 30 ㎒)

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	44 (Worst case)

Parallel



Spectrum Selection

No.	Frequency [MHz]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Angle [deg]	Remark
1	0.050	47.5	20.6	68.1	----------	53.7	
2	0.054	46.9	20.6	67.5	----------	53.7	
3	0.099	40.1	20.7	60.8	----------	53.7	
4	0.155	36.7	20.7	57.4	----------	53.7	
5	0.200	32.8	20.7	53.5	----------	210.1	
6	0.253	29.6	20.7	50.3	----------	53.7	

Note.
1. Above data is peak results.

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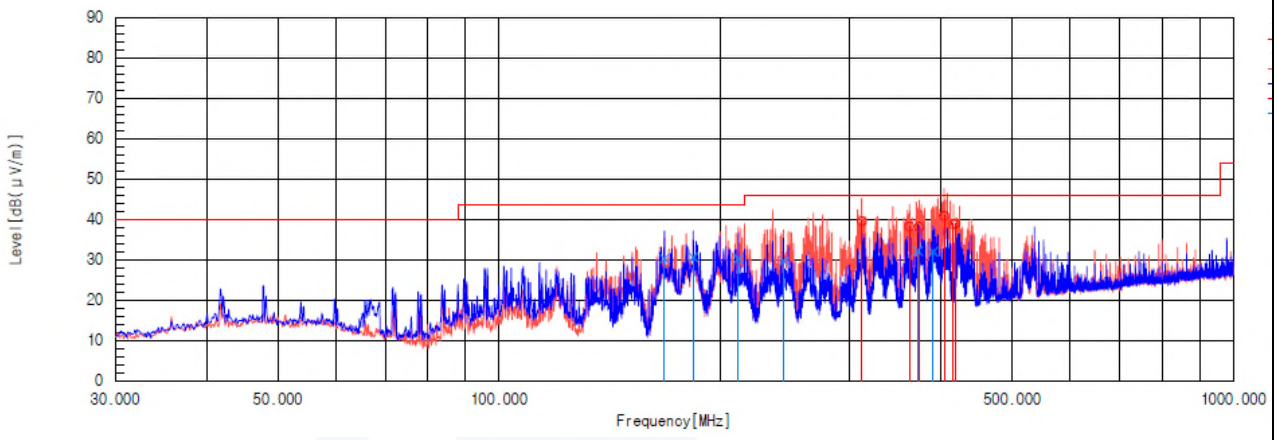
Test results (Below 1 000 ㎒)

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	44 (Worst case)

Horizontal // Vertical



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]	Remark
1	167.983	V	46.2	-15.9	30.3	43.5	13.2	100.0	59.7	
2	183.988	V	45.4	-14.7	30.7	43.5	12.8	121.0	59.7	
3	211.996	V	43.3	-13.1	30.2	43.5	13.3	100.0	126.8	
4	244.006	V	41.9	-12.1	29.8	46.0	16.2	100.0	306.2	
5	312.028	H	49.7	-10.1	39.6	46.0	6.4	130.0	303.5	
6	362.346	H	46.7	-8.4	38.3	46.0	7.7	105.0	122.4	
7	372.046	V	40.5	-8.3	32.2	46.0	13.8	152.0	211.6	
8	373.623	H	46.4	-8.2	38.2	46.0	7.8	105.0	35.7	
9	390.355	V	40.0	-8.0	32.0	46.0	14.0	110.0	238.7	
10	403.935	H	48.8	-7.9	40.9	46.0	5.1	131.0	234.6	
11	415.939	H	46.5	-7.7	38.8	46.0	7.2	234.0	172.0	
12	418.728	H	46.7	-7.7	39.0	46.0	7.0	199.0	16.1	

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Test results (Above 1 000 ㎒)

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	36

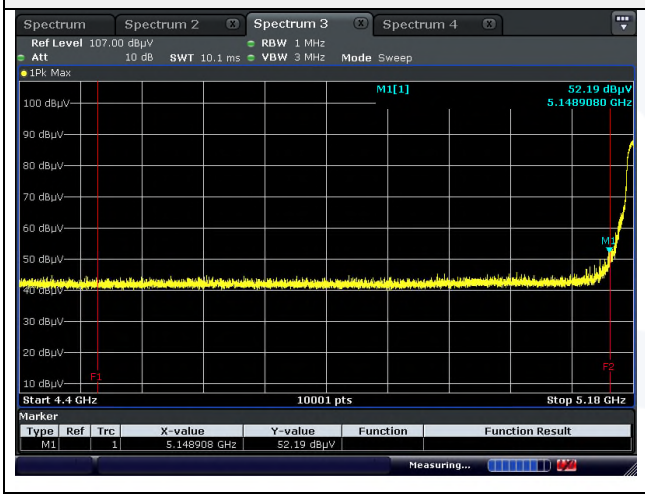
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
2 264.62	45.05	Peak	V	0.23	-	45.28	74.00	28.72
2 890.06	45.17	Peak	H	1.89	-	47.06	74.00	26.94

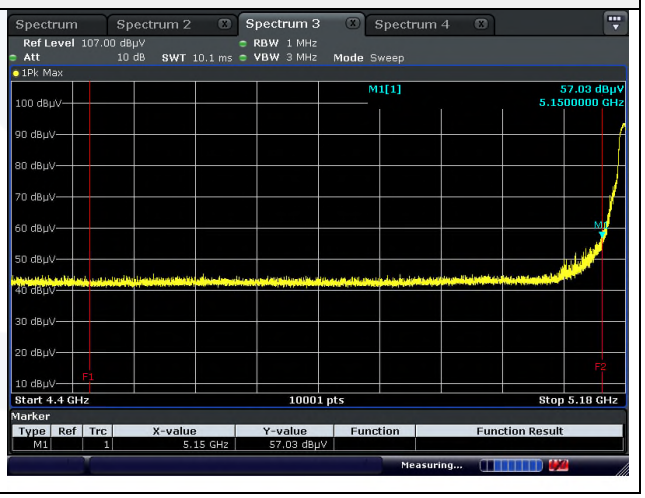
- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
5 148.91	52.19	Peak	H	7.54	-	59.73	74.00	14.27
5 148.91	36.78	Average	H	7.54	0.41	44.73	54.00	9.27
5 150.00	57.03	Peak	V	7.54	-	64.57	74.00	9.43
5 150.00	42.28	Average	V	7.54	0.41	50.23	54.00	3.77

Restricted band // Horizontal // Peak



Restricted band // Vertical // Peak



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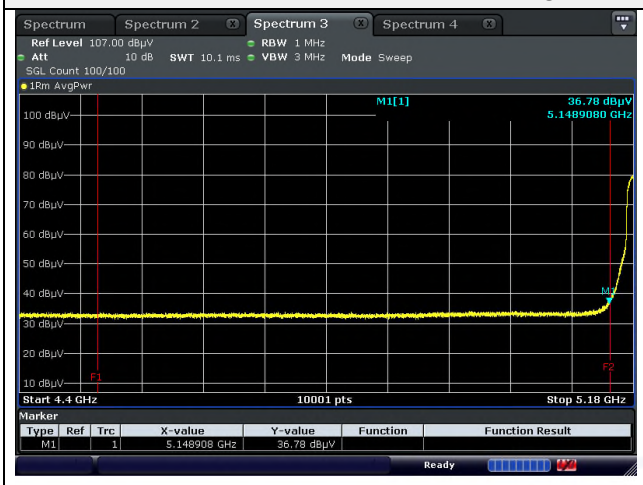
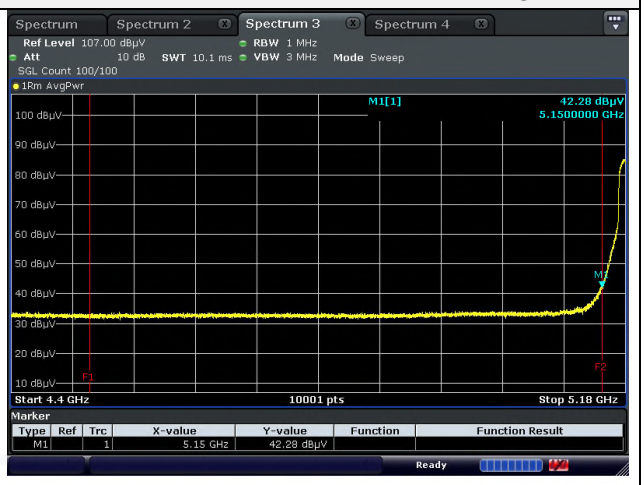
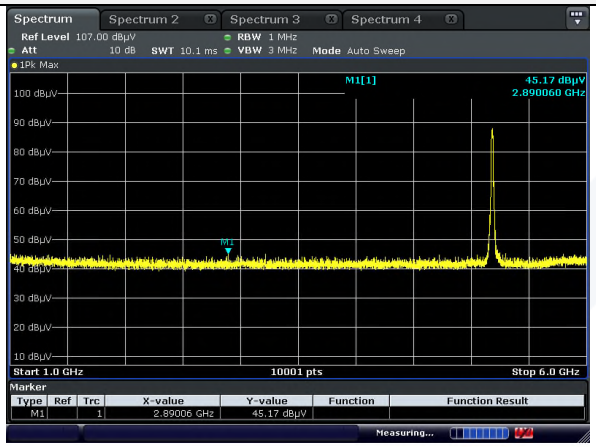
Restricted band // Horizontal // Average



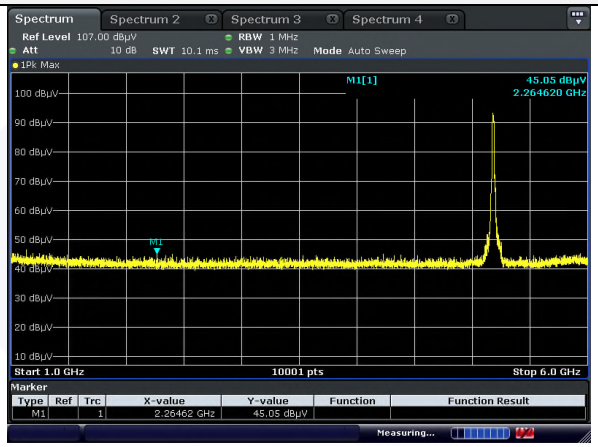
Restricted band // Vertical // Average



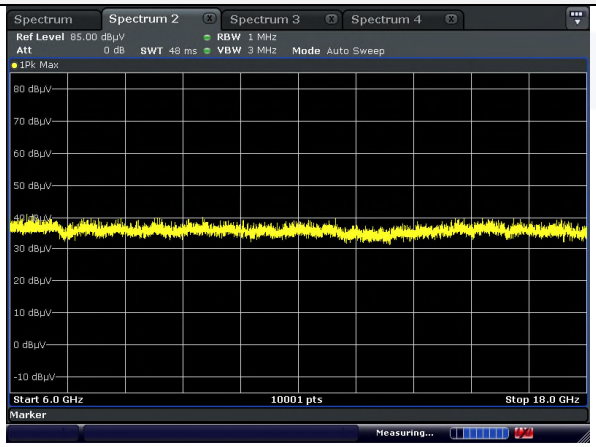
Horizontal // Peak for 1 GHz to 6 GHz



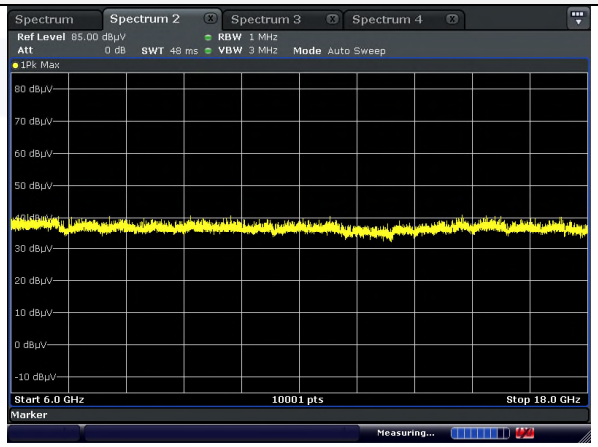
Vertical // Peak for 1 GHz to 6 GHz



Horizontal // Peak for 6 GHz to 18 GHz



Vertical // Peak for 6 GHz to 18 GHz



Note.

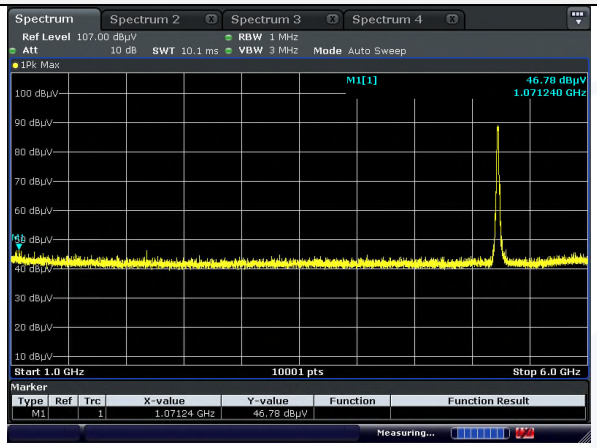
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	44

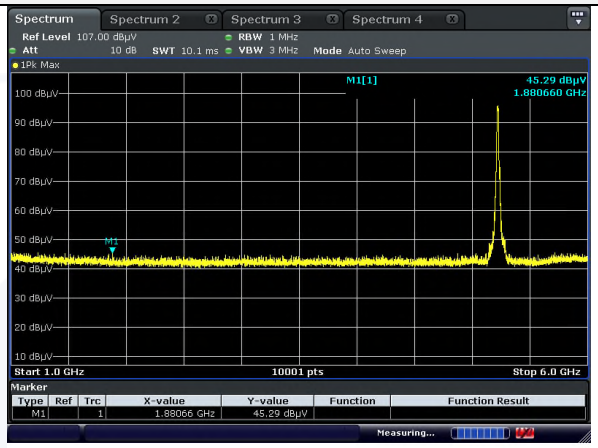
- **Spurious**

Frequency (㎒)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 071.24	46.78	Peak	H	-7.72	-	39.06	74.00	34.94
1 880.66	45.29	Peak	V	-1.84	-	43.45	68.23	24.78

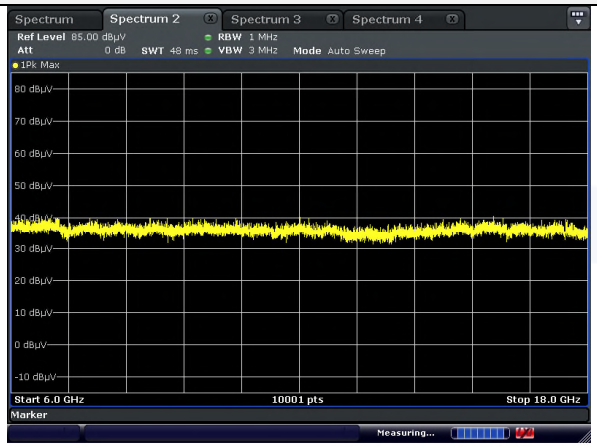
Horizontal // Peak for 1 ㎓ to 6 ㎓



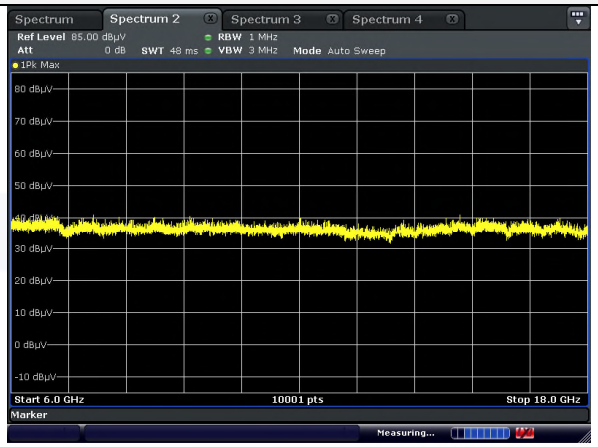
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓



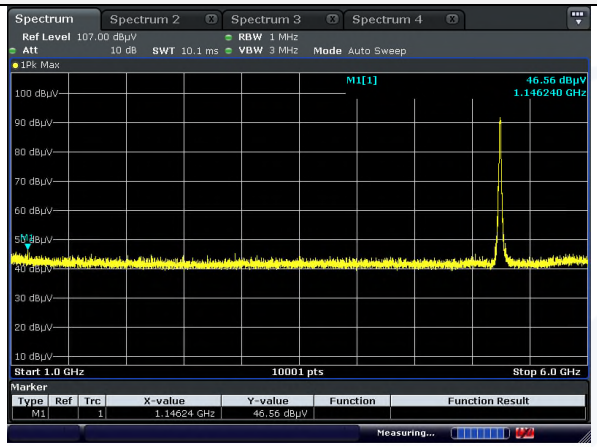
Note.
1. No spurious emission were detected above 6 ㎓.
2. Average test would be performed if the peak result were greater than the average limit.

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	48

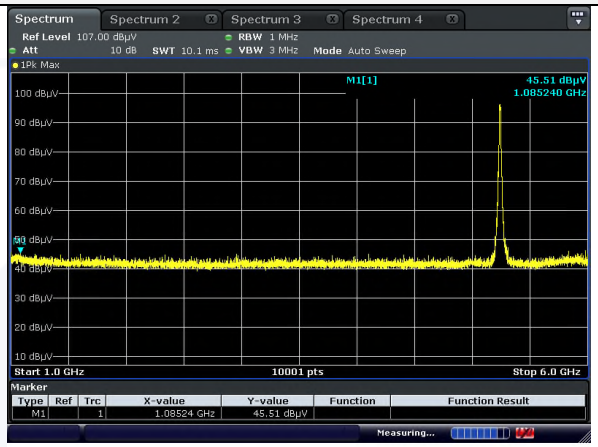
- **Spurious**

Frequency (㎒)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 085.24	45.51	Peak	V	-7.64	-	37.87	74.00	36.13
1 146.24	46.56	Peak	H	-7.27	-	39.29	74.00	34.71

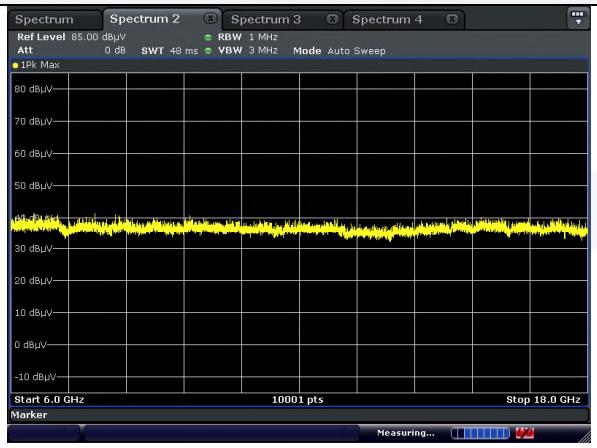
Horizontal // Peak for 1 ㎓ to 6 ㎓



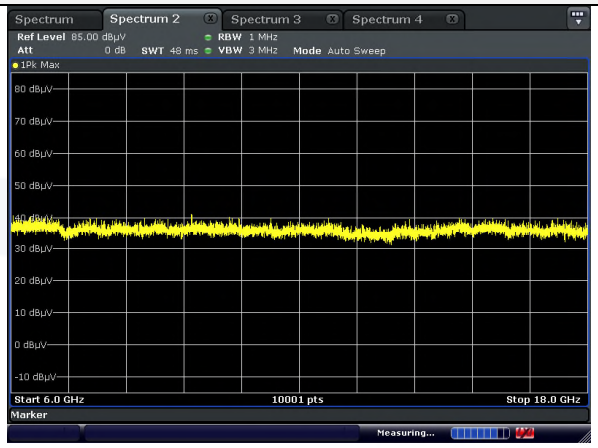
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓

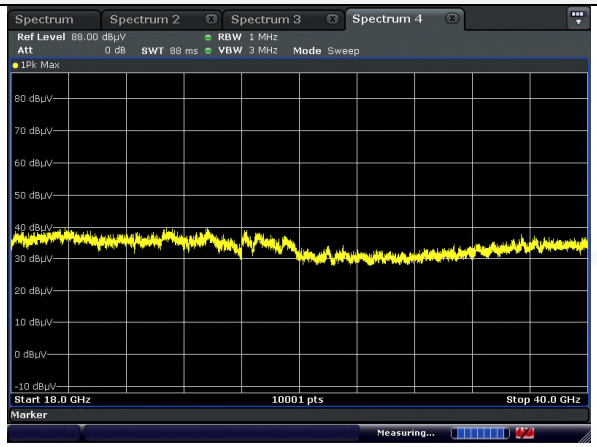
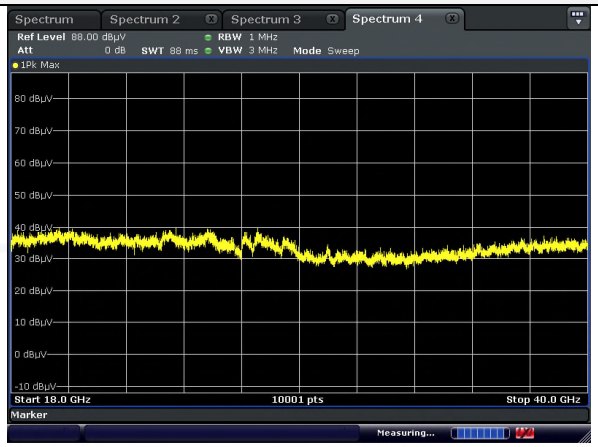


Note.
1. No spurious emission were detected above 6 ㎓.
2. Average test would be performed if the peak result were greater than the average limit.

You can check the authenticity of this test report on our website (www.kes.co.kr).

Test results (18 ㎓ to 30 ㎓) – Worst case

Mode:	SISO (Ant 2) / 802.11a (6 Mbps)
Distance of measurement:	3 meter
Channel:	44 (Worst case)

Horizontal	Vertical
	

Note.

1. No spurious emission were detected above 18 ㎓.

You can check the authenticity of this test report on our website (www.kes.co.kr).

3.2. AC conducted emissions

Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 ㎑ to 30 ㎒, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (㎒)	Conducted limit (㏈㎶)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

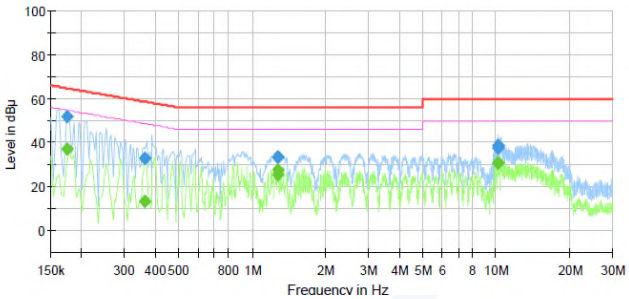
You can check the authenticity of this test report on our website (www.kes.co.kr).

Test results

Mode: SISO (Ant 2) / 802.11a (6 Mbps)

Channel: 44 (Worst case)

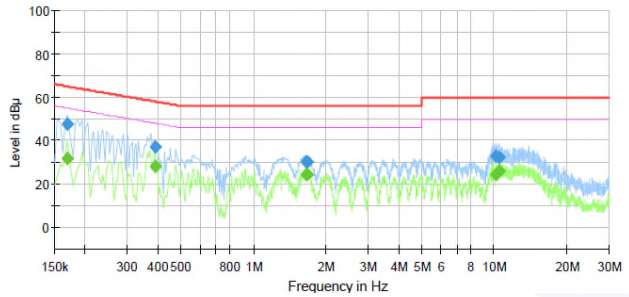
Hot Line



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.174000	—	37.03	54.77	17.74	1000.0	9.000	L1	19.7
0.174000	52.12	—	64.77	12.65	1000.0	9.000	L1	19.7
0.362000	—	13.26	48.68	35.42	1000.0	9.000	L1	19.7
0.362000	33.01	—	58.68	25.67	1000.0	9.000	L1	19.7
1.274000	—	27.49	46.00	18.51	1000.0	9.000	L1	19.7
1.274000	33.45	—	56.00	22.55	1000.0	9.000	L1	19.7
1.278000	—	25.25	46.00	20.75	1000.0	9.000	L1	19.7
1.278000	33.36	—	56.00	22.64	1000.0	9.000	L1	19.7
10.166000	—	30.71	50.00	19.29	1000.0	9.000	L1	20.4
10.166000	38.42	—	60.00	21.58	1000.0	9.000	L1	20.4
10.190000	—	30.47	50.00	19.53	1000.0	9.000	L1	20.4
10.190000	37.69	—	60.00	22.31	1000.0	9.000	L1	20.4

Neutral Line



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	—	31.99	54.96	22.97	1000.0	9.000	N	19.5
0.170000	47.47	—	64.96	17.49	1000.0	9.000	N	19.5
0.394000	—	28.21	47.98	19.77	1000.0	9.000	N	19.6
0.394000	36.87	—	57.98	21.11	1000.0	9.000	N	19.6
1.662000	—	24.35	46.00	21.65	1000.0	9.000	N	19.7
1.662000	30.11	—	56.00	25.89	1000.0	9.000	N	19.7
1.674000	—	24.49	46.00	21.51	1000.0	9.000	N	19.7
1.674000	30.00	—	56.00	26.00	1000.0	9.000	N	19.7
10.162000	—	24.45	50.00	25.55	1000.0	9.000	N	20.3
10.162000	32.92	—	60.00	27.08	1000.0	9.000	N	20.3
10.518000	—	25.79	50.00	24.21	1000.0	9.000	N	20.4
10.518000	32.52	—	60.00	27.48	1000.0	9.000	N	20.4

You can check the authenticity of this test report on our website (www.kes.co.kr).

3.3. Antenna Requirement

According to 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or toother intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

You can check the authenticity of this test report on our website (www.kes.co.kr).

Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum analyzer	R&S	FSV40	101725	1 year	2026.06.10
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2026.04.16
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2026.04.21
BAND REJECT FILTER	MICRO-TRONICS	BRM50702	G272	1 year	2026.01.08
LOOP ANTENNA	TESEQ	HLA6121	66547	2 years	2026.01.22
TRILOG-BROADBAND ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2026.04.19
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2026.02.13
Horn Antenna	A.H.	SAS-571	414	1 year	2026.01.13
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2026.01.13
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2026.02.13
PREAMPLIFIER	HP	8449B	3008A00899	1 year	2026.03.05
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2026.01.09
DC Power Supply	Agilent	6632B	MY43004090	1 year	2026.06.12
EMI TEST RECEIVER	R&S	ESR7	101190	1 year	2026.04.30
EMI Test S/W	TOYO Corporation	ES10/RE	2022.01.000	-	-
EMI Test Receiver	R&S	ESR3	101783	1 year	2026.11.03
EMI Test S/W	R&S	EMC32	9.12.00	-	-
PULSE LIMITER	R&S	ESH2-Z2	101915	1 year	2026.11.03
LISN	R&S	ENV216	101786	1 year	2026.01.09
Cable (SR #6)	RG 400	-	-	0.5 year	2026.01.25
Cable (SAC #5)	SUCOFLEX106	HUBER_SUHNER	-	0.5 year	2026.01.25
	SUCOFLEX106	HUBER_SUHNER	-	0.5 year	2026.01.25
	LH21D/2xSMA	OSI Cable	-	0.5 year	2026.01.25
Cable (SAC #6)	TCLH21D-SMSM-2.5M 0222	OSI Cable	-	0.5 year	2026.01.25
	TCLH21D-NMNM-10.0M 0222	OSI Cable	-	0.5 year	2026.01.25
	TCLH21D-SMSM-7.0M 0222	OSI Cable	-	0.5 year	2026.01.25

* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LGS53	306QCZP560949
AC/DC Adapter	DELTA ELECTRONICS, INC.	MDS-030AAC15	LZYD43X00D7

The End.

You can check the authenticity of this test report on our website (www.kes.co.kr).