



TEST REPORT



Report No. : KES-EM250914

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KES Co., Ltd.

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1. Client

Applicant : JLU Co.,Ltd.

Applicant Address : 410~412, Busan Knowledge Industry Center, 111, Hyoyeol-ro, Buk-gu, Busan, Republic of Korea

2. Sample Description

Product name : Lymfit plus

Model/Type No. : JHS200B

Variant Model : -

Manufacturer : JLU Co.,Ltd.

Manufacturer Address : 410~412, Busan Knowledge Industry Center, 111, Hyoyeol-ro, Buk-gu, Busan, Republic of Korea

3. FCC ID : 2BHHE-JHS200B

4. Date of Receipt : Mar. 10, 2025

5. Test date : Mar. 27, 2025

6. Date of Issue : Apr. 09, 2025

7. Test Results : In Compliance

Tested by

Reviewed by

GyuCheol, Shin
EMC Test Engineer

Dae Jung, Choi
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.



REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Apr. 09, 2025	KES-EM250914	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Division	Specificity
Internal highest clock frequency	32 Mhz
Rated Power	Cradle charging : DC 5 V (USB Type-C) movement : DC 7.4 V (Battery) / 2 400 mAh
Product Features	Lymfit plus
Wireless Function	Bluetooth 2.4 GHz
Components	EUT 1 EA, USB Type- C Cable 1 EA, Cradle 1 EA, SONO HEAD 1 EA, HIFU HEAD 1 EA



1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 120 V, 60 Hz (AC/DC Adapter Input Power), Battery

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Lymfit plus	JHS200B	-	JLU Co.,Ltd.	EUT
Cradle	-	-	JLU Co.,Ltd.	-
Battery	HY18650-2400-2S	-	ShenZhen Huayu New Energy Technology CO., LTD	YU10801-19001
SONO HEAD	-	-	JLU Co.,Ltd.	-
HIFU HEAD	-	-	JLU Co.,Ltd.	-

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adapter	ZH-3U24T	-	Shenzhen ZONSAN Innovation Technology CO., LTD.	R-R-Zsi-ZH-3U24T
SmartPhone	SM-986N	-	Samsung Electronics	-



1.6 External I/O Cabling

■ mode 1

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Lymfit plus (EUT)	4 Pin (Charging Part)	Cradle (EUT)	4 Pin (Charging Part)	-	-
Cradle (EUT)	USB Type-C	Adapter	USB Type-A	1.0	U

* Unshielded=U, Shielded=S

■ mode 2, mode 3, mode 4, mode 5

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Lymfit plus (EUT)	Wireless	SmartPhone	Wireless	-	-

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

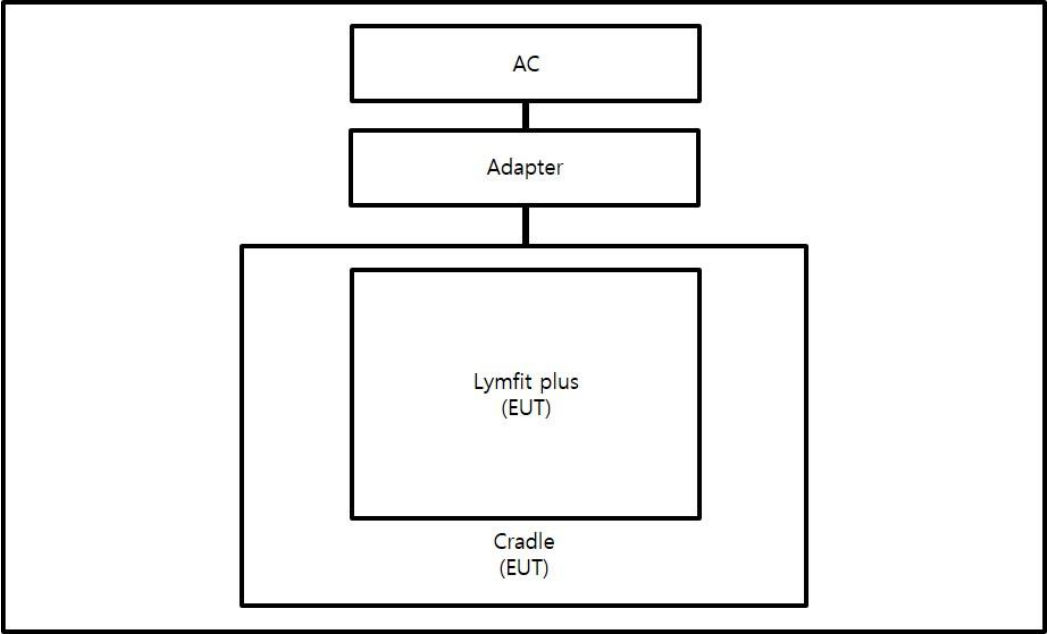
Test No.	Test mode	Normal operating
mode 1	Charging	After connecting the cradle and the DC power supply, the test was conducted by connecting the cradle and the skin care device and checking the LED charging status.
mode 2	Operating (SONO HEAD)	The test equipment and smartphone were connected wirelessly (Bluetooth 2.4 GHz), the BLE application was run on the smartphone, and the test equipment was tested in DUAL mode while operating continuously.
mode 3	Operating (SONO HEAD)	The test equipment and smartphone were connected wirelessly (Bluetooth 2.4 GHz), the BLE application was run on the smartphone, and the test equipment was tested in MOIST mode while operating continuously.
mode 4	Operating (SONO HEAD)	The test equipment and smartphone were connected wirelessly (Bluetooth 2.4 GHz), the BLE application was run on the smartphone, and the test equipment was tested in LIFTING mode while operating continuously.
mode 5	Operating (HIFU HEAD)	The test equipment and smartphone were connected wirelessly (Bluetooth 2.4 GHz), the BLE application was run on the smartphone, and the test equipment was tested in 3.0 mm mode while operating continuously.

EUT Test operating S/W		
Name	Version	Manufacture Company
-	-	-

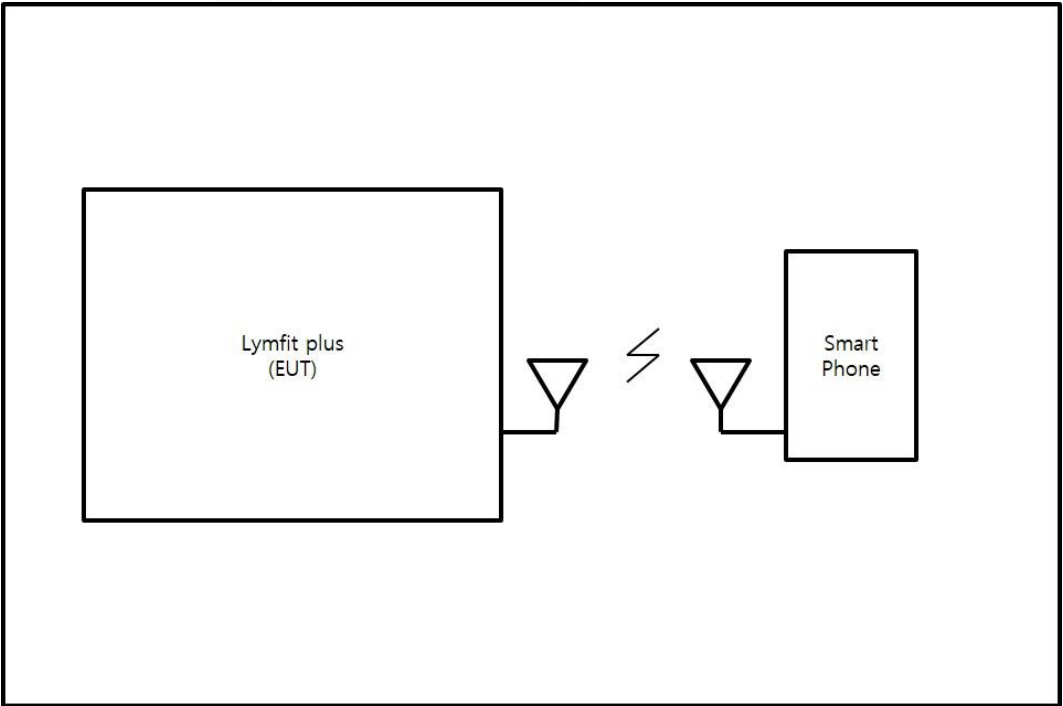


1.8 Configuration

■ mode 1



■ mode 2, mode 3, mode 4, mode 5





1.9 Remarks when standards applied

N/A

1.10 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.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Measurement Procedure

- Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

- Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0008



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ 47 CFR Part 15, Subpart B

☒ ANSI C63.4a-2017

☐ Class A

☒ Class B





2.1 Conducted Emissions at Mains Power Ports

Test Date

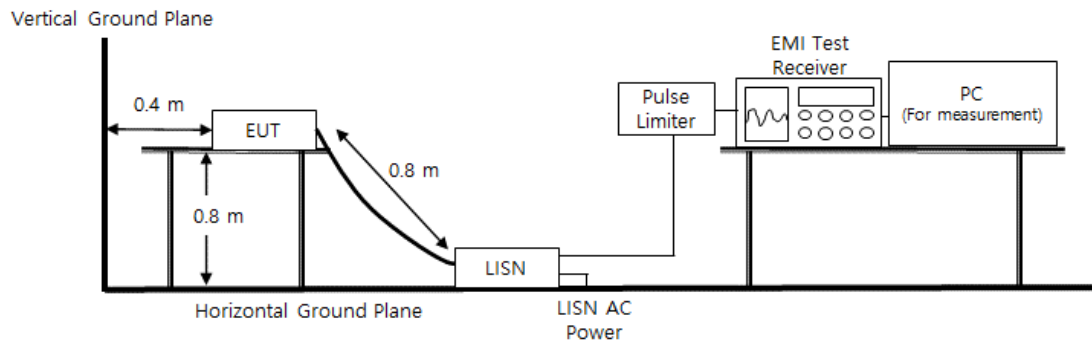
Mar. 27, 2025

Test Location

SHIELD ROOM #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	EMC32	R & S	9.12.00	-	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 06, 2025	1 Year
☒	LISN	ENV216	R & S	101786	01, 09, 2026	1 Year
☐	ARTIFICIAL MAINS NETWORK	ESH2-Z5	R & S	100450	11, 06, 2025	1 Year
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 06, 2025	1 Year
☒	Cable	RG 400	-	-	02, 16, 2025	0.5 Year

Diagram of test setup



Test Conditions

Temperature: (23,5 ± 0,1) °C
Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.





2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Mar. 27, 2025

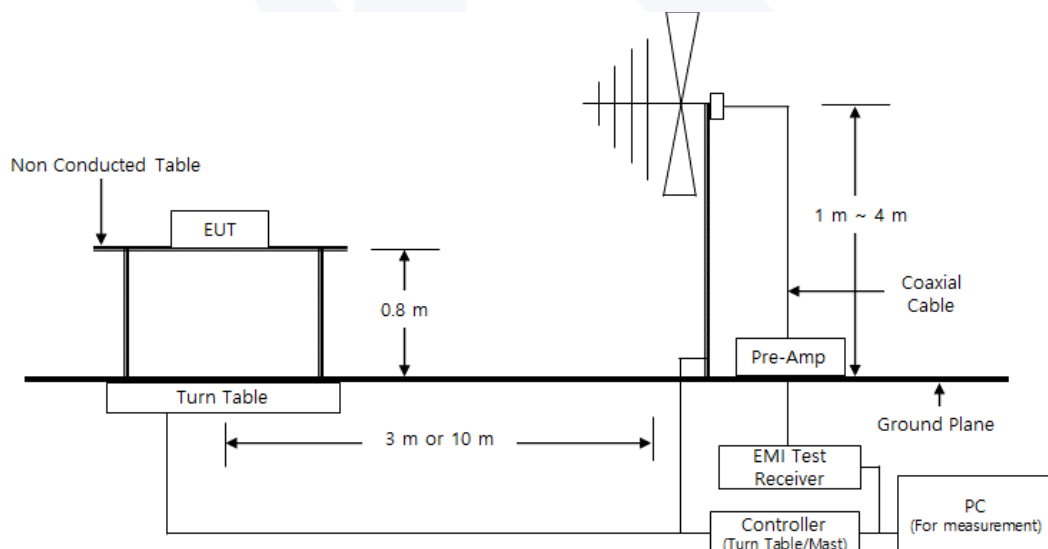
Test Location

☒ SEMI ANECHOIC CHAMBER #6 (3 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	02, 13, 2026	1 Year
☒	AMPLIFIER	310N	SONOMA INSTRUMENT	401123	02, 13, 2026	1 Year
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	714	04, 19, 2026	2 Year
☒	ATTENUATOR	6806.17.A	HUBER+SUHNER	-	02, 13, 2026	1 Year
☒	Cable	-	-	-	02, 16, 2026	0.5 Year
☒	Cable	-	-	-	02, 16, 2026	0.5 Year

Diagram of test setup





Test Conditions

Temperature: (23,2 ± 0,1) °C
Relative Humidity: (46,3 ± 0,1) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

mode 2, mode 3, mode 4, mode 5 : The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z.



2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Mar. 27, 2025

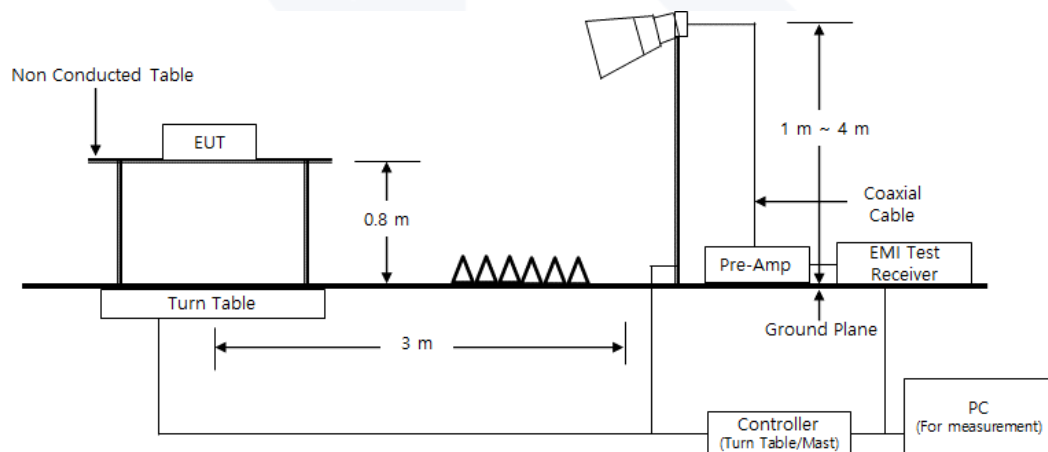
Test Location

SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
☒	EMI Test SW	ES10/RE	TOYO Corporation	2022.01.000	-	-
☒	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	02, 13, 2026	1 Year
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 04, 2025	1 Year
☒	PREAMPLIFIER	8449B	HP	3008A00538	04, 30, 2025	1 Year
☒	ATTENUATOR	8491B	HP	23094	02, 13, 2026	1 Year
☒	Cable	SUCOFLEX106	HUBER_SUHNER	-	02, 16, 2026	0.5 Year
☒	Cable	SUCOFLEX106	HUBER_SUHNER	-	02, 16, 2026	0.5 Year
☒	Cable	LH21D/2Xsma	OSI Cable	-	02, 16, 2026	0.5 Year

Diagram of test setup





Test Conditions

Temperature: (23,2 ± 0,1)°C
Relative Humidity: (46,2 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 13 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
- ☐ NOT PASS
- ☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

The Average of the test data is the cispr average result.

mode 2, mode 3, mode 4, mode 5 : it was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.



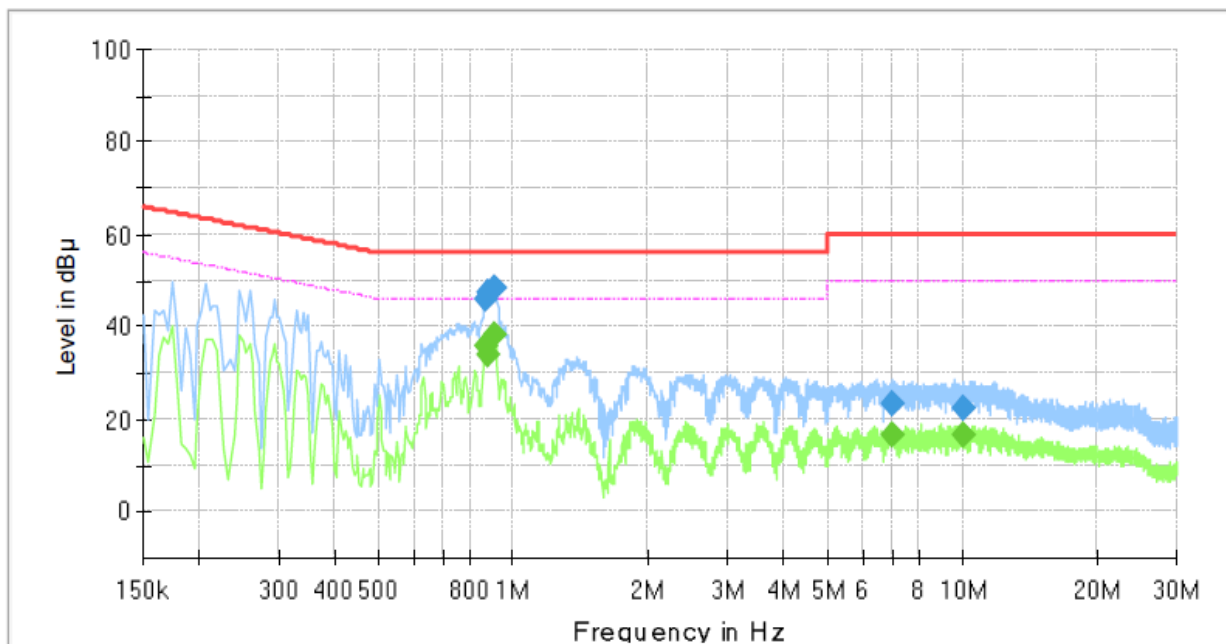
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

■ mode 1

HOT LINE

Test Description: Conducted Emission
Job No.: KES-EM250914
Phase: L
Mode: mode 1
Operator Name: KES



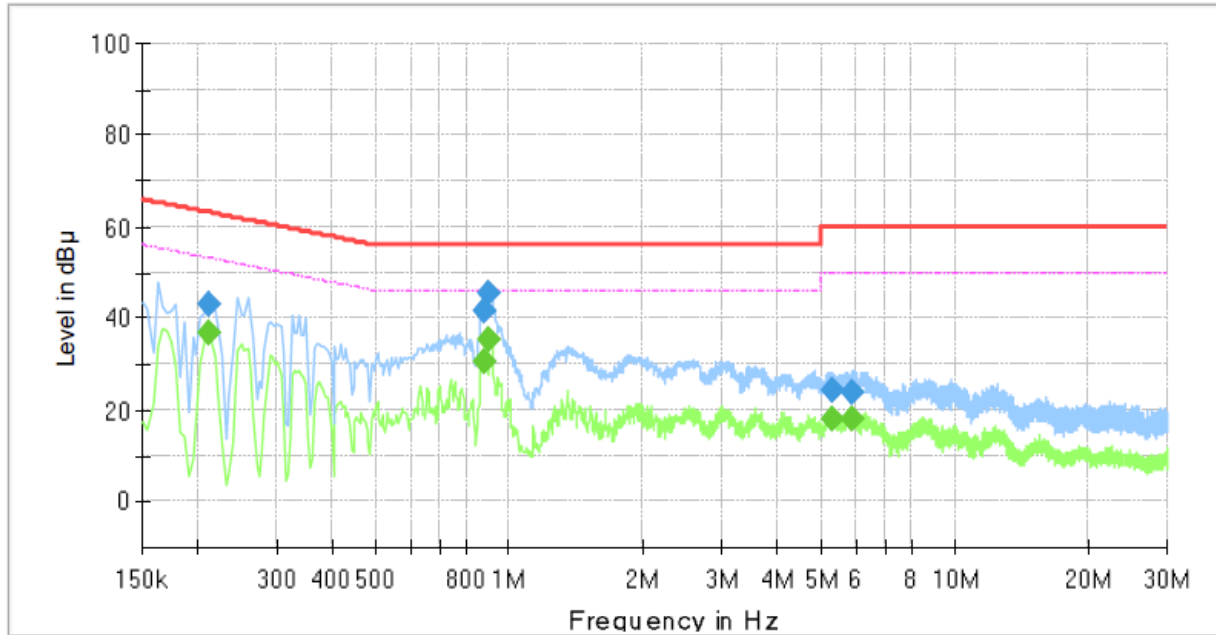
Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.870000	---	36.02	46.00	9.98	1000.0	9.000	L1	19.7
0.870000	46.12	---	56.00	9.88	1000.0	9.000	L1	19.7
0.882000	---	33.75	46.00	12.25	1000.0	9.000	L1	19.7
0.882000	47.28	---	56.00	8.72	1000.0	9.000	L1	19.7
0.910000	---	38.43	46.00	7.57	1000.0	9.000	L1	19.7
0.910000	48.45	---	56.00	7.55	1000.0	9.000	L1	19.7
6.962000	---	16.59	50.00	33.41	1000.0	9.000	L1	20.3
6.962000	23.45	---	60.00	36.55	1000.0	9.000	L1	20.3
10.042000	---	16.58	50.00	33.42	1000.0	9.000	L1	20.4
10.042000	22.26	---	60.00	37.74	1000.0	9.000	L1	20.4



NEUTRAL LINE

Test Description: Conducted Emission
Job No.: KES-EM250914
Phase: N
Mode: mode 1
Operator Name: KES

**Final_Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.210000	---	36.67	53.21	16.54	1000.0	9.000	N	19.5
0.210000	43.07	---	63.21	20.14	1000.0	9.000	N	19.5
0.874000	---	30.51	46.00	15.49	1000.0	9.000	N	19.6
0.874000	41.78	---	56.00	14.22	1000.0	9.000	N	19.6
0.902000	---	35.47	46.00	10.53	1000.0	9.000	N	19.6
0.902000	45.36	---	56.00	10.64	1000.0	9.000	N	19.6
5.282000	---	18.05	50.00	31.95	1000.0	9.000	N	20.1
5.282000	24.32	---	60.00	35.68	1000.0	9.000	N	20.1
5.902000	---	17.98	50.00	32.02	1000.0	9.000	N	20.1
5.902000	23.96	---	60.00	36.04	1000.0	9.000	N	20.1

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

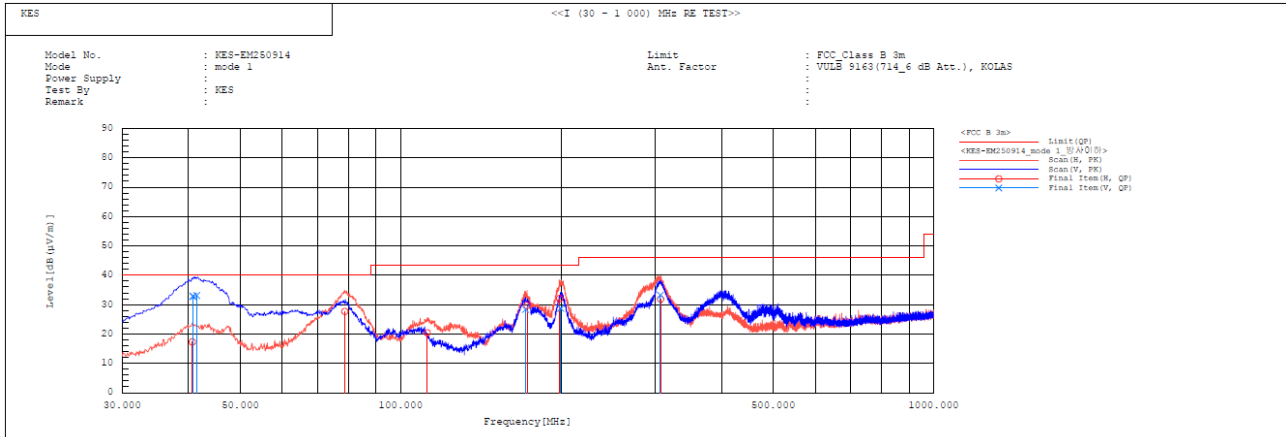
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))



Report No. : KES-EM250914

Radiated Electric Field Emissions(Below 1 GHz)

■ mode 1

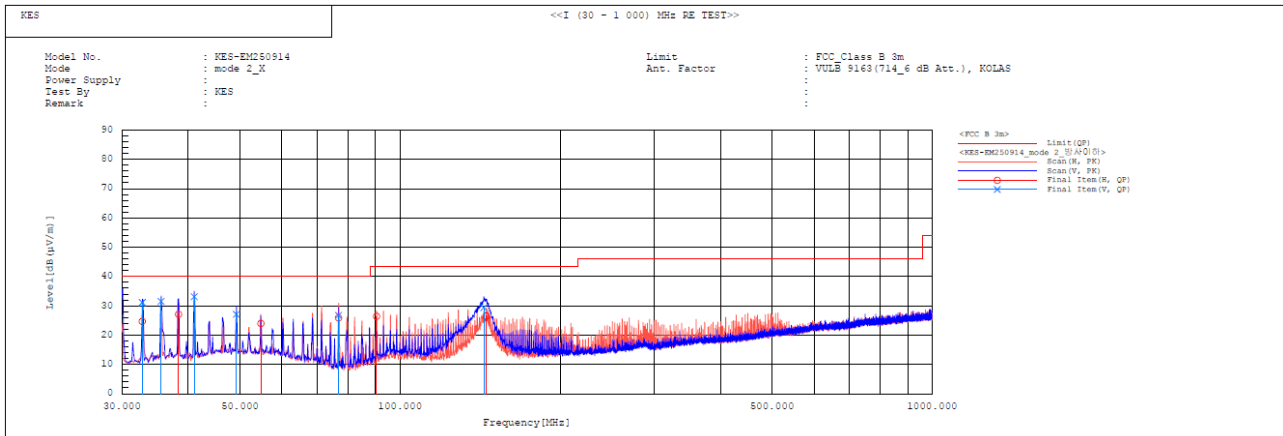
**Final Result**

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		QP [dB(μV)]	[dB(1/m)]	QP [dB(μV/m)]	QP [dB(μV/m)]	QP [dB]	[cm]	[deg]	
1	40.627	H	31.2	-13.9	17.3	40.0	22.7	395.0	29.9	
2	40.772	V	46.8	-13.9	32.9	40.0	7.1	102.0	174.1	
3	40.800	V	46.7	-13.9	32.8	40.0	7.2	101.0	218.2	
4	41.430	V	46.9	-13.8	33.1	40.0	6.9	101.0	218.2	
5	78.600	H	46.2	-18.5	27.7	40.0	12.3	193.0	42.6	
6	112.231	H	35.2	-14.8	20.4	43.5	23.1	195.0	42.6	
7	171.598	V	43.8	-15.4	28.4	43.5	15.1	105.0	218.2	
8	172.688	H	45.0	-15.3	29.7	43.5	13.8	192.0	152.4	
9	198.656	H	45.5	-13.4	32.1	43.5	11.4	105.0	53.8	
10	199.925	V	42.0	-13.3	28.7	43.5	14.8	101.0	242.0	
11	307.275	V	43.3	-10.1	33.2	46.0	12.8	149.0	0.0	
12	307.685	H	42.0	-10.1	31.9	46.0	14.1	110.0	76.5	



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■ mode 2
- X orientation

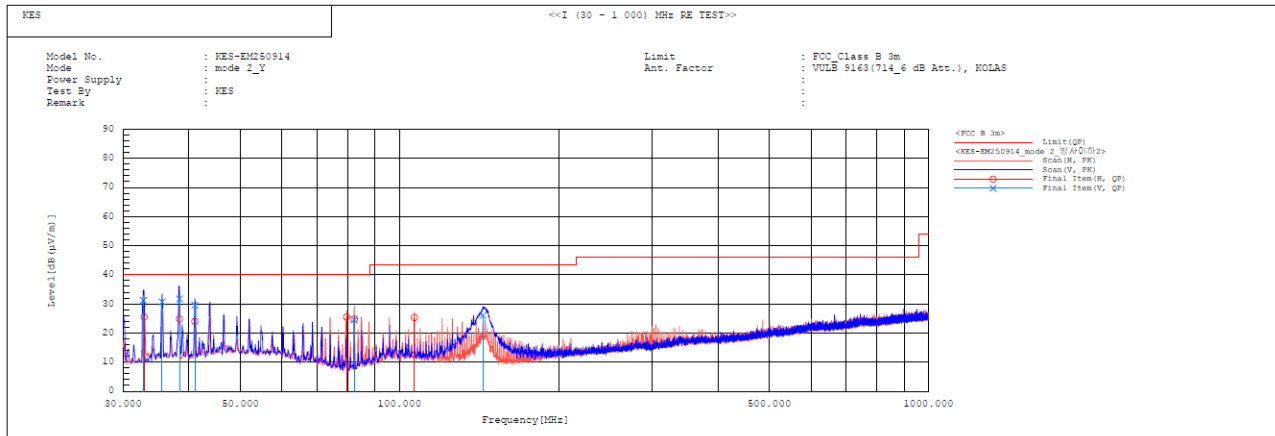


Final Result

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	32.765	H	40.3	-15.6	24.7	40.0	15.3	390.0	80.4	
2	32.769	V	46.7	-15.6	31.1	40.0	8.9	101.0	144.1	
3	35.540	V	46.5	-15.0	31.5	40.0	8.5	108.0	0.0	
4	38.355	H	41.5	-14.4	27.1	40.0	12.9	399.0	80.4	
5	41.049	V	46.9	-13.8	33.1	40.0	6.9	102.0	234.2	
6	49.235	V	39.5	-12.4	27.1	40.0	12.9	155.0	217.9	
7	54.775	H	36.9	-12.9	24.0	40.0	16.0	396.0	147.0	
8	76.635	H	43.9	-18.0	25.9	40.0	14.1	390.0	102.8	
9	76.667	V	44.7	-18.0	26.7	40.0	13.3	391.0	356.2	
10	90.315	H	42.1	-15.7	26.4	43.5	17.1	395.0	125.9	
11	143.750	V	46.1	-16.8	29.3	43.5	14.2	101.0	189.9	
12	145.221	H	43.4	-16.9	26.5	43.5	17.0	199.0	185.4	



- Y orientation

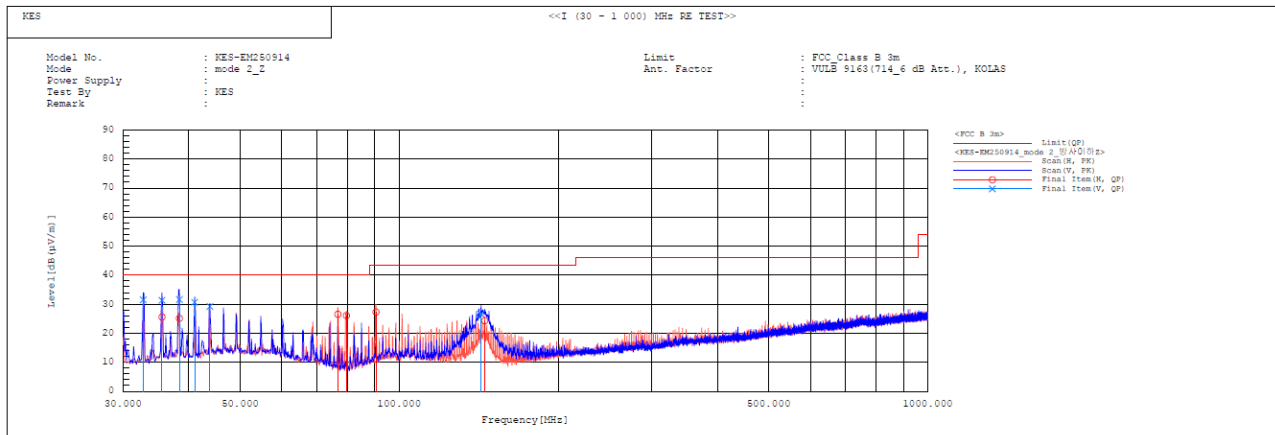


Final Result

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		QP		QP	QP	QP			
			[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[cm]	[deg]	
1	32.789	V	46.8	-15.6	31.2	40.0	8.8	101.0	1.6	
2	32.910	H	41.1	-15.5	25.6	40.0	14.4	395.0	232.7	
3	35.578	V	45.6	-14.9	30.7	40.0	9.3	105.0	1.6	
4	38.366	H	39.2	-14.4	24.8	40.0	15.2	200.0	209.1	
5	38.366	V	46.1	-14.4	31.7	40.0	8.3	101.0	330.3	
6	41.034	H	37.8	-13.8	24.0	40.0	16.0	395.0	278.6	
7	41.034	V	43.3	-13.8	29.5	40.0	10.5	105.0	1.6	
8	79.470	H	44.2	-18.7	25.5	40.0	14.5	195.0	300.4	
9	82.138	H	42.9	-18.1	24.8	40.0	15.2	399.0	300.4	
10	82.138	V	42.6	-18.1	24.5	40.0	15.5	104.0	305.6	
11	106.751	H	39.8	-14.5	25.3	43.5	18.2	190.0	357.8	
12	143.854	V	42.8	-16.8	26.0	43.5	17.5	155.0	330.3	



- Z orientation

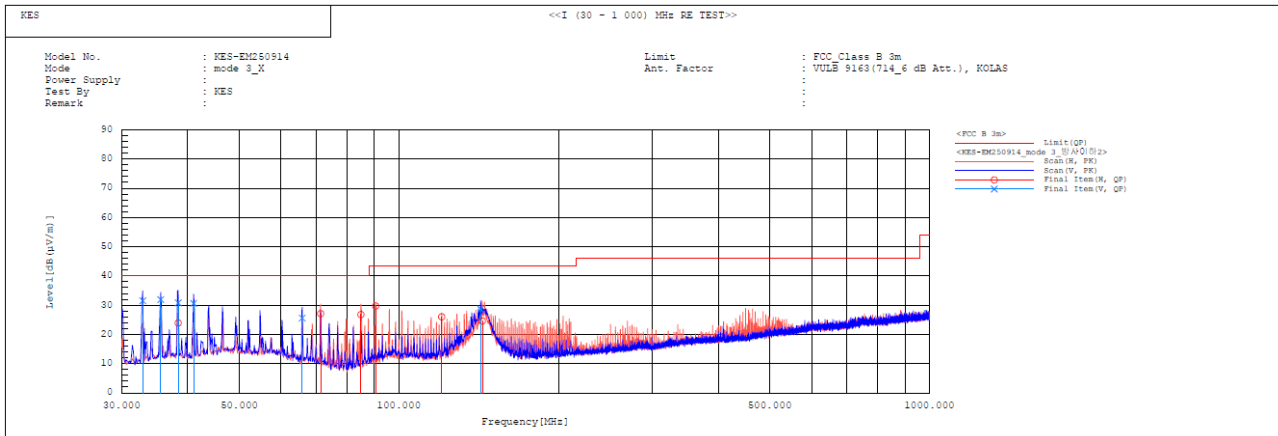


Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB (μV)]	c.f [dB (l/m)]	Result QP [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.789	V	47.1	-15.6	31.5	40.0	8.5	105.0	215.0	
2	35.578	V	46.2	-14.9	31.3	40.0	8.7	155.0	13.6	
3	35.578	H	40.5	-14.9	25.6	40.0	14.4	395.0	0.0	
4	38.366	V	46.0	-14.4	31.6	40.0	8.4	103.0	259.8	
5	38.366	H	39.5	-14.4	25.1	40.0	14.9	198.0	0.0	
6	41.034	V	44.5	-13.8	30.7	40.0	9.3	101.0	0.0	
7	43.823	V	42.5	-13.3	29.2	40.0	10.8	105.0	259.8	
8	76.560	H	44.5	-18.0	26.5	40.0	13.5	393.0	0.0	
9	79.470	H	44.8	-18.7	26.1	40.0	13.9	395.0	0.0	
10	90.383	H	43.0	-15.7	27.3	43.5	16.2	198.0	300.7	
11	142.884	V	43.4	-16.8	26.6	43.5	16.9	154.0	324.1	
12	145.188	H	41.2	-16.9	24.3	43.5	19.2	198.0	0.0	



■ mode 3
- X orientation

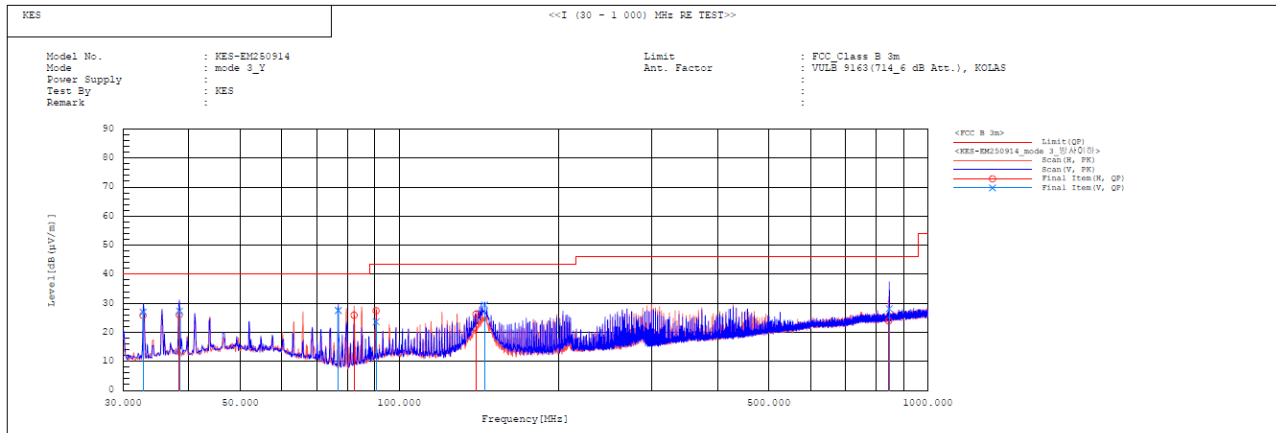


Final Result

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	32.910	V	47.0	-15.5	31.5	40.0	8.5	103.0	183.3	
2	35.578	V	46.8	-14.9	31.9	40.0	8.1	110.0	183.3	
3	38.366	V	45.2	-14.4	30.8	40.0	9.2	153.0	183.3	
4	38.366	H	38.3	-14.4	23.9	40.0	16.1	193.0	262.1	
5	41.034	V	44.4	-13.8	30.6	40.0	9.4	105.0	183.3	
6	65.769	V	40.8	-15.2	25.6	40.0	14.4	105.0	0.0	
7	71.225	H	43.7	-16.6	27.1	40.0	12.9	195.0	346.2	
8	84.805	H	44.1	-17.3	26.8	40.0	13.2	390.0	330.3	
9	90.383	H	45.4	-15.7	29.7	43.5	13.8	199.0	358.1	
10	120.453	H	41.3	-15.3	26.0	43.5	17.5	192.0	54.8	
11	142.641	V	45.4	-16.8	28.6	43.5	14.9	101.0	0.0	
12	143.733	H	41.4	-16.8	24.6	43.5	18.9	190.0	322.5	



- Y orientation

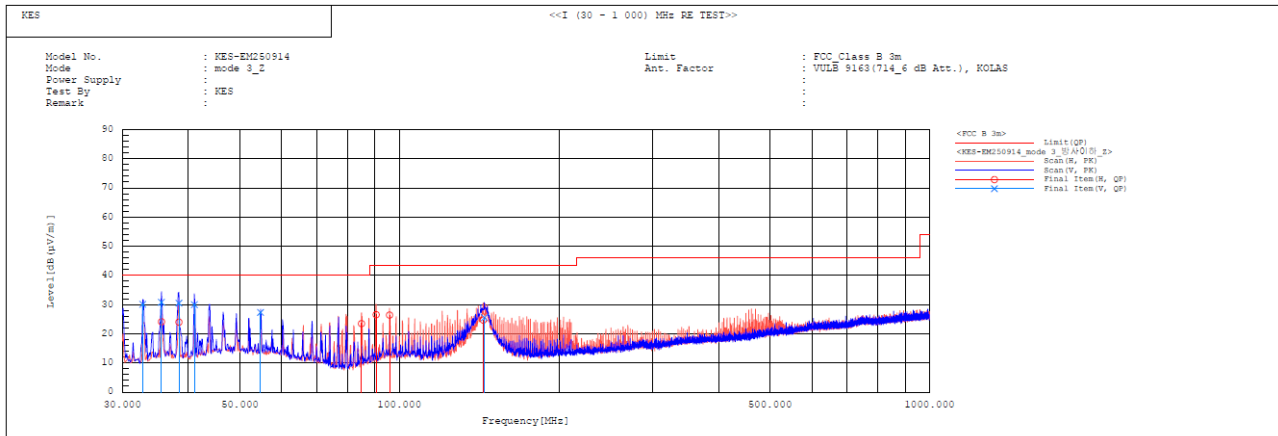


Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB (μV)]	c.f [dB (l/m)]	Result QP [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.740	H	41.4	-15.6	25.8	40.0	14.2	395.0	330.2	
2	32.777	V	42.5	-15.6	26.9	40.0	13.1	152.0	305.8	
3	38.349	H	40.5	-14.4	26.1	40.0	13.9	395.0	330.2	
4	38.375	V	41.6	-14.4	27.2	40.0	12.8	151.0	151.9	
5	76.679	V	45.5	-18.0	27.5	40.0	12.5	154.0	238.8	
6	82.119	H	44.0	-18.1	25.9	40.0	14.1	391.0	285.6	
7	90.383	V	39.3	-15.7	23.6	43.5	19.9	155.0	262.0	
8	90.391	H	43.1	-15.7	27.4	43.5	16.1	195.0	297.6	
9	139.722	H	42.8	-16.6	26.2	43.5	17.3	199.0	254.3	
10	145.155	V	46.3	-16.9	29.4	43.5	14.1	155.0	283.7	
11	844.250	H	24.0	-0.1	23.9	46.0	22.1	395.0	330.2	
12	846.211	V	28.2	-0.1	28.1	46.0	17.9	101.0	323.5	



- Z orientation



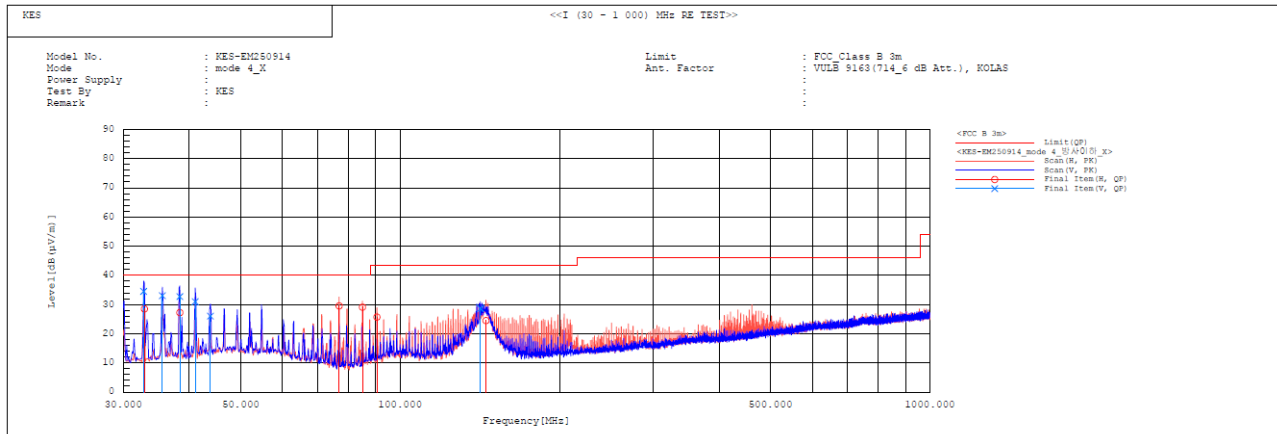
Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB (μV)]	c.f [dB (l/m)]	Result QP [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.789	V	45.7	-15.6	30.1	40.0	9.9	102.0	260.4	
2	35.578	V	45.7	-14.9	30.8	40.0	9.2	153.0	193.3	
3	35.578	H	39.0	-14.9	24.1	40.0	15.9	391.0	29.8	
4	38.366	V	44.9	-14.4	30.5	40.0	9.5	101.0	193.3	
5	38.366	H	38.4	-14.4	24.0	40.0	16.0	399.0	0.0	
6	41.034	V	43.8	-13.8	30.0	40.0	10.0	103.0	193.3	
7	54.735	V	40.2	-12.9	27.3	40.0	12.7	105.0	237.3	
8	84.805	H	40.8	-17.3	23.5	40.0	16.5	392.0	356.8	
9	90.383	H	42.2	-15.7	26.5	43.5	17.0	198.0	196.5	
10	95.839	H	41.1	-14.7	26.4	43.5	17.1	199.0	196.5	
11	143.975	H	41.5	-16.8	24.7	43.5	18.8	195.0	330.2	
12	144.703	V	42.4	-16.9	25.5	43.5	18.0	155.0	193.3	



Report No. : KES-EM250914

■ mode 4
- X orientation

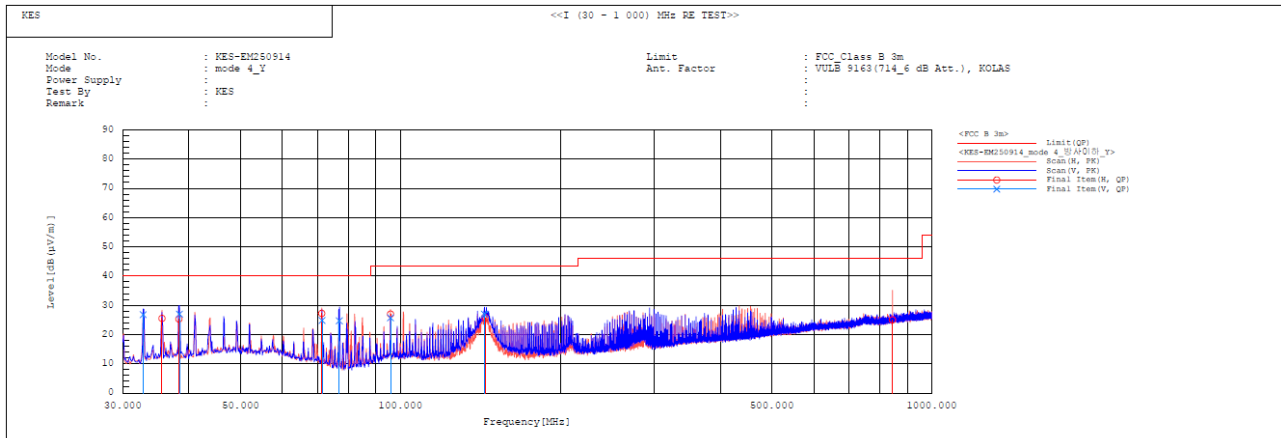


Final Result

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		QP		QP	QP	QP			
			[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[cm]	[deg]	
1	32.789	V	50.1	-15.6	34.5	40.0	5.5	105.0	263.1	
2	32.910	H	44.0	-15.5	28.5	40.0	11.5	195.0	165.9	
3	35.578	V	47.9	-14.9	33.0	40.0	7.0	105.0	219.8	
4	38.366	V	47.1	-14.4	32.7	40.0	7.3	155.0	274.1	
5	38.366	H	41.6	-14.4	27.2	40.0	12.8	395.0	299.4	
6	41.034	V	44.8	-13.8	31.0	40.0	9.0	110.0	219.8	
7	43.823	V	39.3	-13.3	26.0	40.0	14.0	101.0	330.4	
8	76.681	H	47.5	-18.0	29.5	40.0	10.5	392.0	29.8	
9	84.926	H	46.3	-17.2	29.1	40.0	10.9	195.0	14.0	
10	90.383	H	41.4	-15.7	25.7	43.5	17.8	199.0	0.0	
11	141.793	V	45.3	-16.7	28.6	43.5	14.9	144.0	284.1	
12	145.188	H	41.4	-16.9	24.5	43.5	19.0	195.0	35.8	



- Y orientation

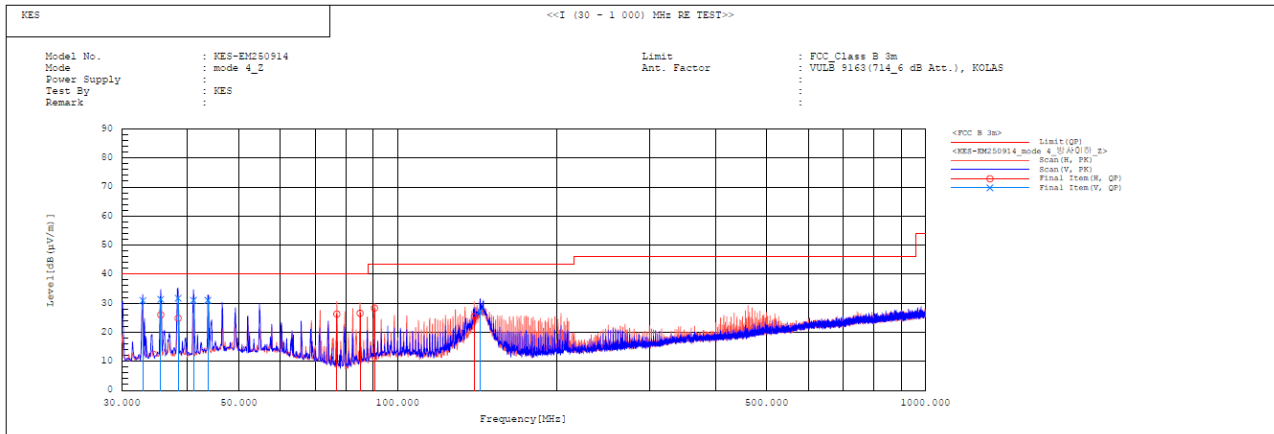


Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB (μV/m)]	c.f [dB (1/m)]	Result QP [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.792	V	42.4	-15.6	26.8	40.0	13.2	149.0	0.0	
2	35.569	H	40.4	-14.9	25.5	40.0	14.5	389.0	296.4	
3	38.275	H	39.7	-14.4	25.3	40.0	14.7	392.0	296.4	
4	38.376	V	41.4	-14.4	27.0	40.0	13.0	152.0	53.7	
5	71.104	H	43.8	-16.6	27.2	40.0	12.8	390.0	29.8	
6	71.231	V	41.4	-16.6	24.8	40.0	15.2	395.0	58.9	
7	76.758	V	42.7	-18.0	24.7	40.0	15.3	395.0	148.4	
8	95.789	V	40.4	-14.7	25.7	43.5	17.8	148.0	36.4	
9	95.818	H	41.7	-14.7	27.0	43.5	16.5	395.0	275.6	
10	143.968	V	43.8	-16.8	27.0	43.5	16.5	101.0	307.6	
11	144.324	H	42.5	-16.8	25.7	43.5	17.8	108.0	121.8	
12	844.101	H	25.1	-0.1	25.0	46.0	21.0	190.0	2.0	



- Z orientation

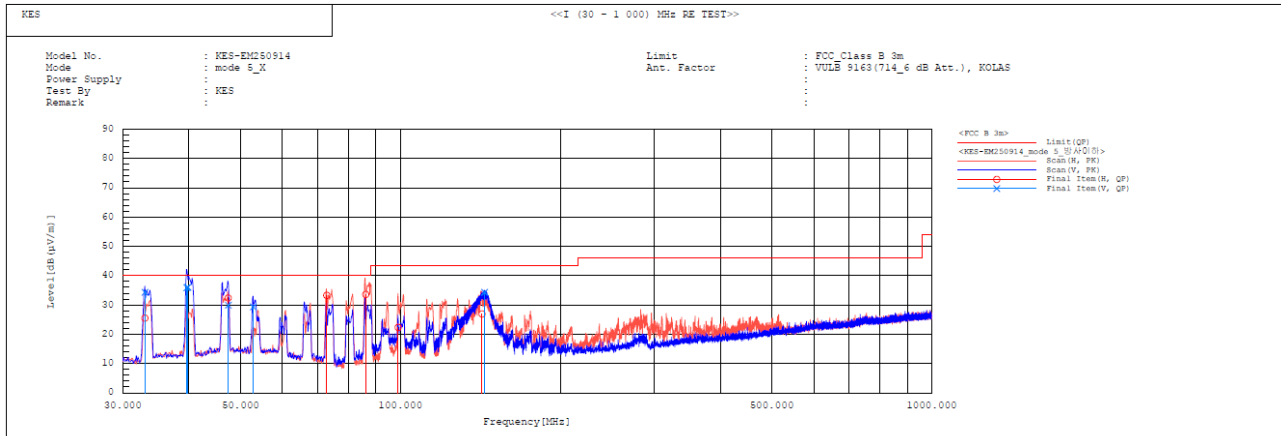


Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB(μV)]	c.f [dB(l/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.910	V	46.4	-15.5	30.9	40.0	9.1	105.0	277.9	
2	35.578	V	46.2	-14.9	31.3	40.0	8.7	105.0	322.5	
3	35.578	H	40.9	-14.9	26.0	40.0	14.0	399.0	2.4	
4	38.366	V	46.1	-14.4	31.7	40.0	8.3	110.0	300.6	
5	38.366	H	39.2	-14.4	24.8	40.0	15.2	395.0	0.0	
6	41.034	V	44.8	-13.8	31.0	40.0	9.0	105.0	0.0	
7	43.701	V	44.4	-13.4	31.0	40.0	9.0	105.0	322.5	
8	76.681	H	44.3	-18.0	26.3	40.0	13.7	199.0	0.0	
9	84.926	H	43.7	-17.2	26.5	40.0	13.5	390.0	62.6	
10	90.383	H	44.0	-15.7	28.3	43.5	15.2	395.0	84.2	
11	139.731	H	41.9	-16.6	25.3	43.5	18.2	195.0	0.0	
12	143.369	V	44.1	-16.8	27.3	43.5	16.2	145.0	300.6	



■ mode 5
- X orientation

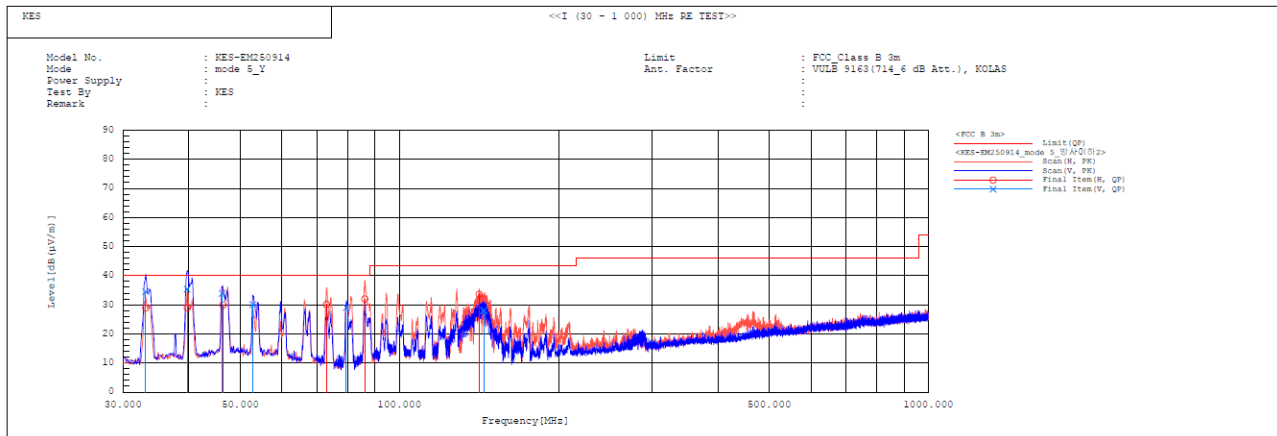


Final Result

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	33.036	H	41.0	-15.5	25.5	40.0	14.5	195.0	232.0	
2	33.049	V	49.8	-15.5	34.3	40.0	5.7	101.0	252.7	
3	39.639	V	50.0	-14.1	35.9	40.0	4.1	105.0	120.2	
4	39.830	V	50.1	-14.1	36.0	40.0	4.0	105.0	120.2	
5	47.387	H	45.1	-12.7	32.4	40.0	7.6	391.0	330.3	
6	47.431	V	42.6	-12.7	29.9	40.0	10.1	101.0	120.2	
7	52.870	V	42.0	-12.7	29.3	40.0	10.7	103.0	120.2	
8	72.661	H	50.3	-17.0	33.3	40.0	6.7	195.0	255.1	
9	86.081	H	50.5	-16.9	33.6	40.0	6.4	192.0	232.0	
10	99.005	H	36.5	-14.2	22.3	43.5	21.2	190.0	29.7	
11	142.431	H	43.6	-16.7	26.9	43.5	16.6	190.0	232.0	
12	144.097	V	51.1	-16.8	34.3	43.5	9.2	105.0	30.0	



- Y orientation

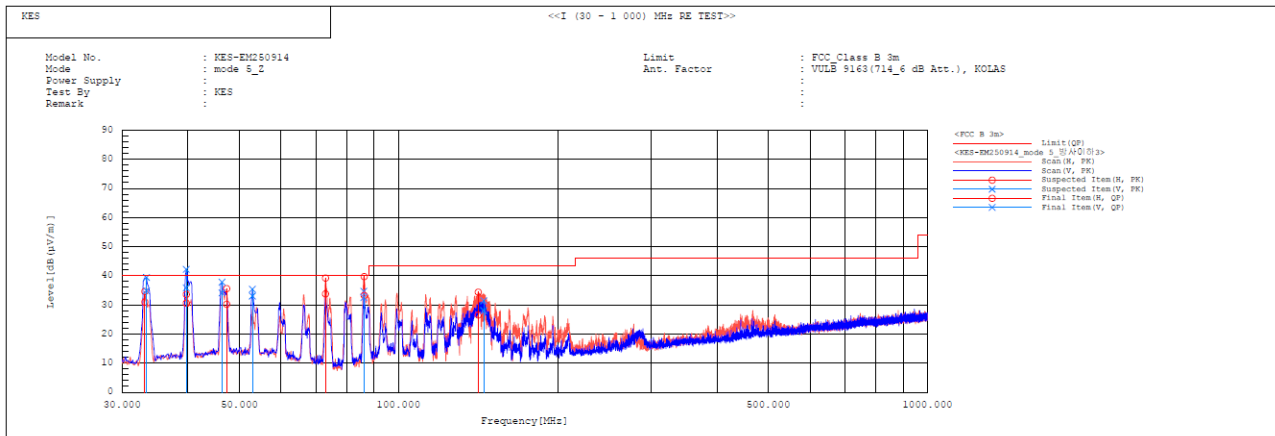


Final Result

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	33.153	H	44.4	-15.5	28.9	40.0	11.1	198.0	0.0	
2	33.153	V	50.0	-15.5	34.5	40.0	5.5	155.0	29.8	
3	39.700	H	43.1	-14.1	29.0	40.0	11.0	192.0	0.0	
4	39.700	V	49.5	-14.1	35.4	40.0	4.6	110.0	187.9	
5	46.248	V	46.8	-12.9	33.9	40.0	6.1	155.0	299.8	
6	46.369	H	42.8	-12.9	29.9	40.0	10.1	194.0	0.0	
7	52.795	V	42.8	-12.7	30.1	40.0	9.9	101.0	210.5	
8	72.801	H	47.1	-17.0	30.1	40.0	9.9	199.0	0.0	
9	79.349	V	47.7	-18.6	29.1	40.0	10.9	105.0	187.9	
10	86.018	H	48.9	-16.9	32.0	40.0	8.0	390.0	0.0	
11	141.550	H	50.3	-16.7	33.6	43.5	9.9	190.0	194.6	
12	144.460	V	44.9	-16.9	28.0	43.5	15.5	155.0	99.1	



- Z orientation



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	33.153	H	46.5	-15.5	31.0	40.0	9.0	195.0	0.0	
2	33.395	V	50.2	-15.4	34.8	40.0	5.2	111.0	37.0	
3	39.700	H	44.7	-14.1	30.6	40.0	9.4	193.0	228.8	
4	39.700	V	49.9	-14.1	35.8	40.0	4.2	105.0	218.1	
5	46.369	V	47.0	-12.9	34.1	40.0	5.9	105.0	307.9	
6	47.339	H	42.9	-12.7	30.2	40.0	9.8	199.0	342.3	
7	52.916	V	45.7	-12.7	33.0	40.0	7.0	155.0	218.1	
8	72.801	H	50.8	-17.0	33.8	40.0	6.2	195.0	0.0	
9	86.018	V	49.4	-16.9	32.5	40.0	7.5	101.0	218.1	
10	86.139	H	50.1	-16.9	33.2	40.0	6.8	199.0	0.0	
11	141.550	H	43.2	-16.7	26.5	43.5	17.0	390.0	357.0	
12	144.945	V	44.9	-16.9	28.0	43.5	15.5	155.0	128.1	

◆ Calculation

Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

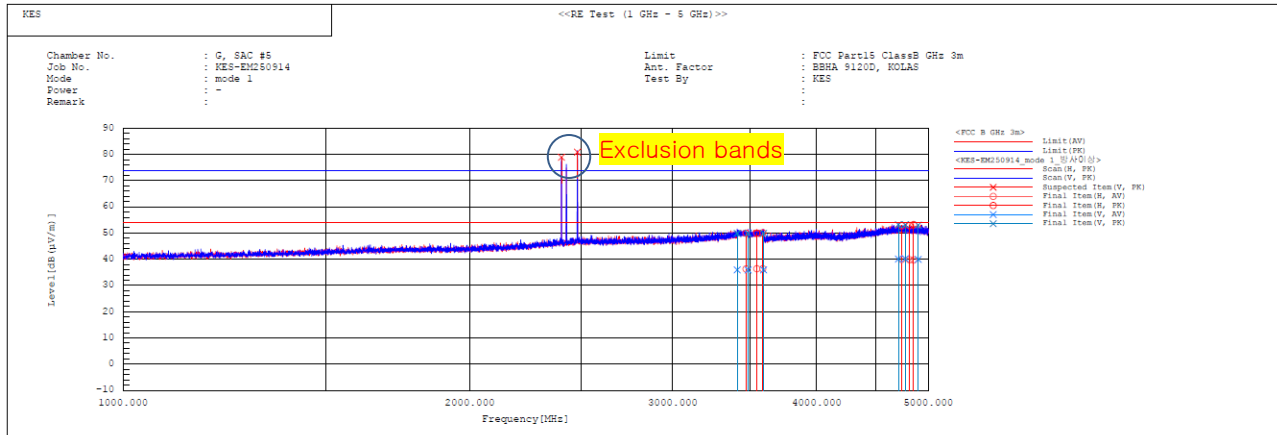
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

**Radiated Electric Field Emissions(Above 1 GHz)**

■ mode 1

- (1 ~ 5) GHz

**Final Result**

No.	Frequency	Pol	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]	
1	3412.632	V	28.9	42.8	7.1	36.0	49.9	54.0	74.0	18.0	24.1	395.0	214.6	
2	3473.250	H	29.1	42.8	7.2	36.3	50.0	54.0	74.0	17.7	24.0	106.0	25.4	
3	3487.445	V	28.7	42.7	7.2	35.9	49.9	54.0	74.0	18.1	24.1	390.0	177.2	
4	3548.834	H	29.1	42.7	7.3	36.4	50.0	54.0	74.0	17.6	24.0	390.0	286.5	
5	3591.445	H	29.0	42.7	7.4	36.4	50.1	54.0	74.0	17.6	23.9	102.0	28.4	
6	3598.224	V	28.6	42.5	7.4	36.0	49.9	54.0	74.0	18.0	24.1	151.0	81.1	
7	4710.809	V	28.6	41.7	11.5	40.1	53.2	54.0	74.0	13.9	20.8	101.0	89.2	
8	4739.225	H	28.3	41.2	11.6	39.9	52.8	54.0	74.0	14.1	21.2	194.0	246.5	
9	4774.622	V	28.5	41.5	11.7	40.2	53.2	54.0	74.0	13.8	20.8	105.0	25.7	
10	4815.831	H	28.0	41.1	11.8	39.8	52.9	54.0	74.0	14.2	21.1	110.0	32.7	
11	4854.188	H	27.7	41.2	12.0	39.7	53.2	54.0	74.0	14.3	20.8	198.0	51.1	
12	4900.355	V	27.7	40.8	12.2	39.9	53.0	54.0	74.0	14.1	21.0	103.0	190.7	
13	2402.000	V	-----	-----	4.7	-----	-----	-----	-----	-----	-----	100.0	173.1	
14	2480.000	V	-----	-----	5.0	-----	-----	-----	-----	-----	-----	100.0	141.8	

* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 13) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 632.736	41.000	V	1.000	34.540	10.020	34.760	50.800	74.000	23.200
8 859.719	40.100	H	1.000	37.970	11.810	34.290	55.590	74.000	18.410

- CISPR AV

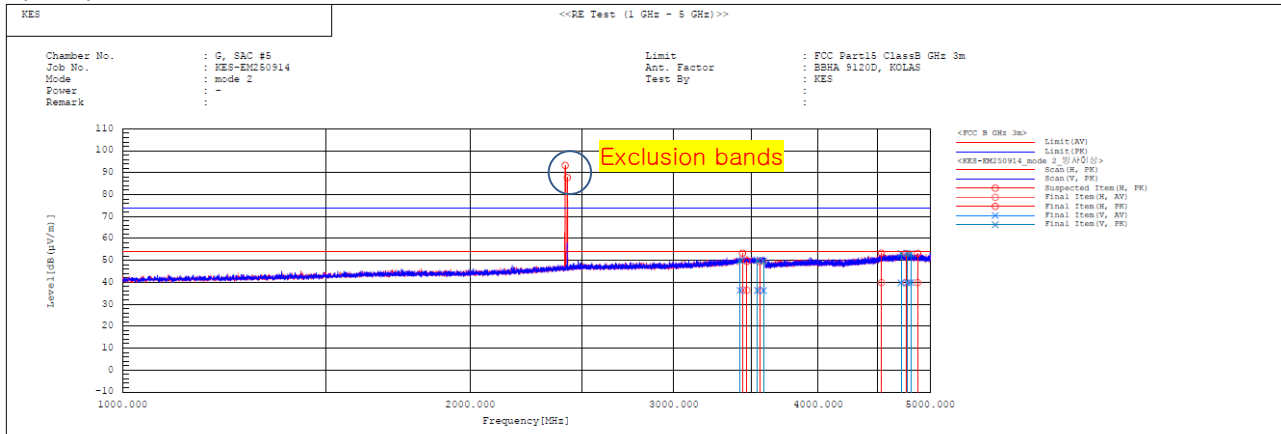
Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 632.736	27.800	V	1.000	34.540	10.020	34.760	37.600	54.000	16.400
8 859.719	26.400	H	1.000	37.970	11.810	34.290	41.890	54.000	12.110



Report No. : KES-EM250914

■ mode 2

- (1 ~ 5) GHz



Final Result

No.	Frequency	Pol	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
	[MHz]		AV	PK		AV	PK	AV	PK	AV	PK	[cm]	[deg]	
			[dB (μV)]	[dB (μV)]	[dB (1/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[dB]			
1	3423.853	V	29.2	42.8	7.1	36.3	49.9	54.0	74.0	17.7	24.1	108.0	327.9	
2	3440.422	H	29.4	46.2	7.1	36.5	53.3	54.0	74.0	17.5	20.7	199.0	10.1	
3	3469.243	H	29.2	42.4	7.2	36.4	49.6	54.0	74.0	17.6	24.4	101.0	178.3	
4	3544.398	V	29.0	42.6	7.3	36.3	49.9	54.0	74.0	17.7	24.1	390.0	21.0	
5	3560.110	H	29.0	42.2	7.3	36.3	49.5	54.0	74.0	17.7	24.5	108.0	131.0	
6	3586.648	V	28.8	42.3	7.4	36.2	49.7	54.0	74.0	17.8	24.3	110.0	327.9	
7	4537.214	H	28.9	42.3	11.0	39.9	53.3	54.0	74.0	14.1	20.7	101.0	159.0	
8	4719.244	V	28.3	41.7	11.5	39.8	53.2	54.0	74.0	14.2	20.8	395.0	56.6	
9	4765.181	H	28.3	41.4	11.7	40.0	53.1	54.0	74.0	14.0	20.9	108.0	265.0	
10	4777.467	V	28.1	41.5	11.7	39.8	53.2	54.0	74.0	14.2	20.8	105.0	345.9	
11	4809.760	V	28.1	41.3	11.8	39.9	53.1	54.0	74.0	14.1	20.9	101.0	355.8	
12	4876.488	H	27.8	41.1	12.1	39.9	53.2	54.0	74.0	14.1	20.8	105.0	55.3	
13	2416.000	H	-----	-----	4.8	-----	-----	-----	-----	-----	-----	100.0	351.6	
14	2426.000	H	-----	-----	4.8	-----	-----	-----	-----	-----	-----	100.0	320.6	

* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 13) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 769.961	40.400	H	1.000	32.930	8.890	33.690	48.530	74.000	25.470
6 725.237	41.200	V	1.000	34.980	10.210	34.730	51.660	74.000	22.340

- CISPR AV

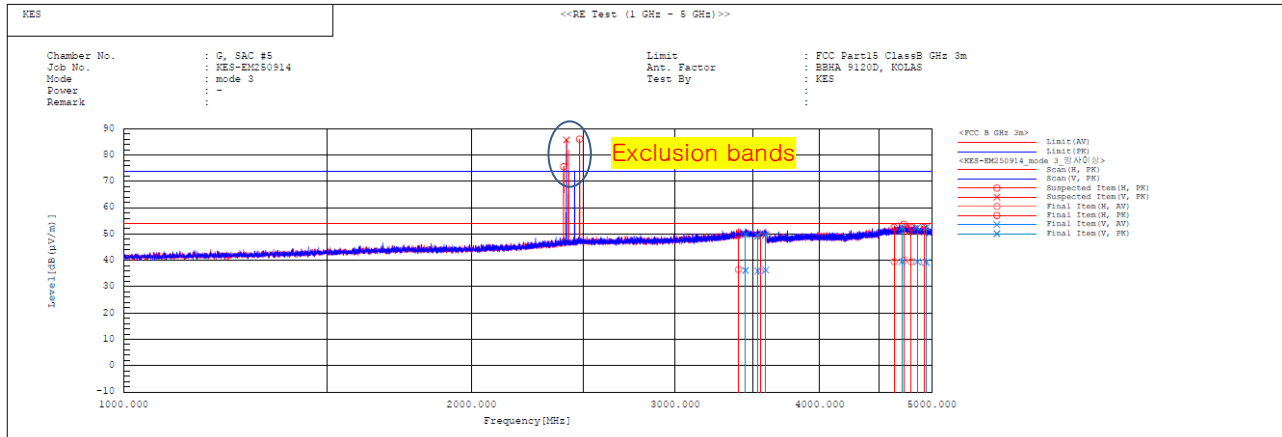
Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 769.961	27.200	H	1.000	32.930	8.890	33.690	35.330	54.000	18.670
6 725.237	27.700	V	1.000	34.980	10.210	34.730	38.160	54.000	15.840



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■ mode 3
- (1 ~ 5) GHz



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB (μV)]	Reading PK [dB (μV)]	c.f [dB (1/m)]	Result AV [dB (μV/m)]	Result PK [dB (μV/m)]	Limit AV [dB (μV/m)]	Limit PK [dB (μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	3402.688	H	29.4	42.6	7.1	36.5	49.7	54.0	74.0	17.5	24.3	103.0	342.9	
2	3450.720	V	29.0	42.6	7.2	36.2	49.8	54.0	74.0	17.8	24.2	395.0	328.6	
3	3535.246	V	28.7	41.9	7.3	36.0	49.2	54.0	74.0	18.0	24.8	152.0	87.0	
4	3553.211	H	28.6	41.9	7.3	35.9	49.2	54.0	74.0	18.1	24.8	193.0	202.9	
5	3592.925	V	28.9	42.4	7.4	36.3	49.8	54.0	74.0	17.7	24.2	395.0	186.7	
6	4639.911	H	28.2	41.3	11.3	39.5	52.6	54.0	74.0	14.5	21.4	395.0	67.8	
7	4711.211	V	28.0	41.0	11.5	39.5	52.5	54.0	74.0	14.5	21.5	155.0	324.3	
8	4728.423	H	28.5	42.1	11.6	40.1	53.7	54.0	74.0	13.9	20.3	195.0	81.1	
9	4798.155	H	27.8	40.8	11.7	39.5	52.5	54.0	74.0	14.5	21.5	400.0	295.3	
10	4858.343	V	27.4	40.5	12.0	39.4	52.5	54.0	74.0	14.6	21.5	391.0	285.0	
11	4924.756	H	26.9	40.3	12.3	39.2	52.6	54.0	74.0	14.8	21.4	105.0	248.8	
12	4945.004	V	26.8	40.1	12.4	39.2	52.5	54.0	74.0	14.8	21.5	150.0	27.6	
13	2400.000	H	-----	-----	5.0	-----	-----	-----	-----	-----	-----	100.0	79.4	
14	2416.000	V	-----	-----	4.8	-----	-----	-----	-----	-----	-----	100.0	325.4	
15	2402.000	H	-----	-----	4.7	-----	-----	-----	-----	-----	-----	100.0	250.4	

* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 13) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 505.454	39.600	H	1.000	31.820	8.790	34.070	46.140	74.000	27.860
7 810.736	40.600	V	1.000	36.490	11.310	33.780	54.620	74.000	19.380

- CISPR AV

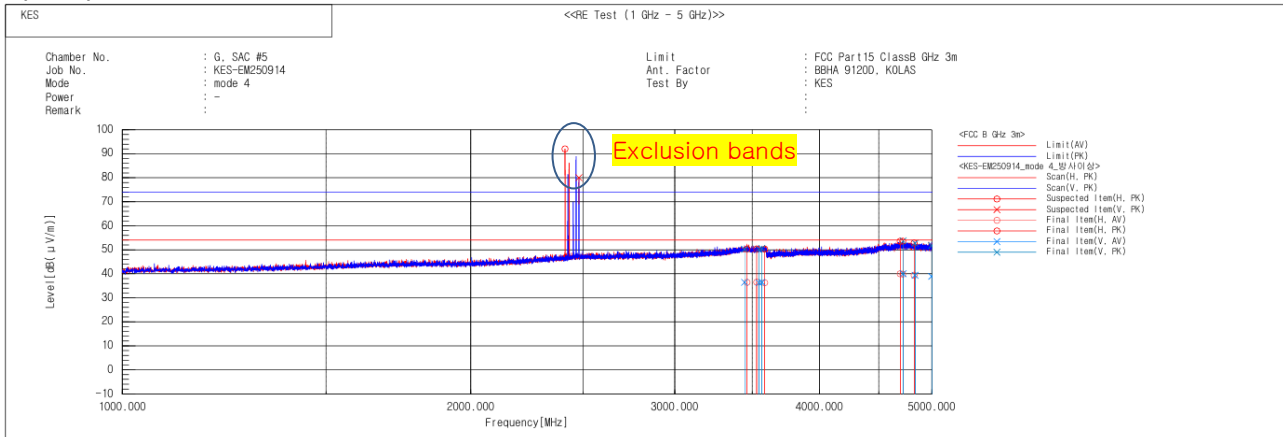
Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5 505.454	26.700	H	1.000	31.820	8.790	34.070	33.240	54.000	20.760
7 810.736	27.500	V	1.000	36.490	11.310	33.780	41.520	54.000	12.480



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■ mode 4
- (1 ~ 5) GHz



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	3446.559	V	29.3	43.1	7.1	36.4	50.2	54.0	74.0	17.6	23.8	101.0	20.9	
2	3462.995	H	29.2	43.1	7.2	36.4	50.3	54.0	74.0	17.6	23.7	191.0	85.2	
3	3530.688	H	29.2	43.1	7.3	36.5	50.4	54.0	74.0	17.5	23.6	393.0	123.8	
4	3546.132	V	29.0	42.9	7.3	36.3	50.2	54.0	74.0	17.7	23.8	105.0	25.1	
5	3566.775	V	29.1	43.2	7.3	36.4	50.5	54.0	74.0	17.6	23.5	151.0	154.7	
6	3587.771	H	28.9	42.9	7.4	36.3	50.3	54.0	74.0	17.7	23.7	395.0	160.0	
7	4696.155	H	28.5	42.1	11.5	40.0	53.6	54.0	74.0	14.0	20.4	198.0	286.5	
8	4720.402	H	28.4	42.1	11.5	39.9	53.6	54.0	74.0	14.1	20.4	197.0	169.0	
9	4723.448	V	28.5	42.2	11.5	40.0	53.7	54.0	74.0	14.0	20.3	158.0	28.0	
10	4828.422	H	27.5	40.9	11.9	39.4	52.8	54.0	74.0	14.6	21.2	199.0	118.3	
11	4836.390	V	27.5	40.8	11.9	39.4	52.7	54.0	74.0	14.6	21.3	101.0	329.7	
12	4999.932	V	26.3	39.2	12.6	38.9	51.8	54.0	74.0	15.1	22.2	395.0	140.5	
13	2412.000	H	-----	-----	4.7	-----	-----	-----	-----	-----	-----	100.0	304.3	
14	2480.000	V	-----	-----	5.0	-----	-----	-----	-----	-----	-----	100.0	269.9	

* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 13) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 605.933	41.000	V	1.000	34.410	9.970	34.770	50.610	74.000	23.390
8 674.276	40.600	H	1.000	37.260	10.960	33.750	55.070	74.000	18.930

- CISPR AV

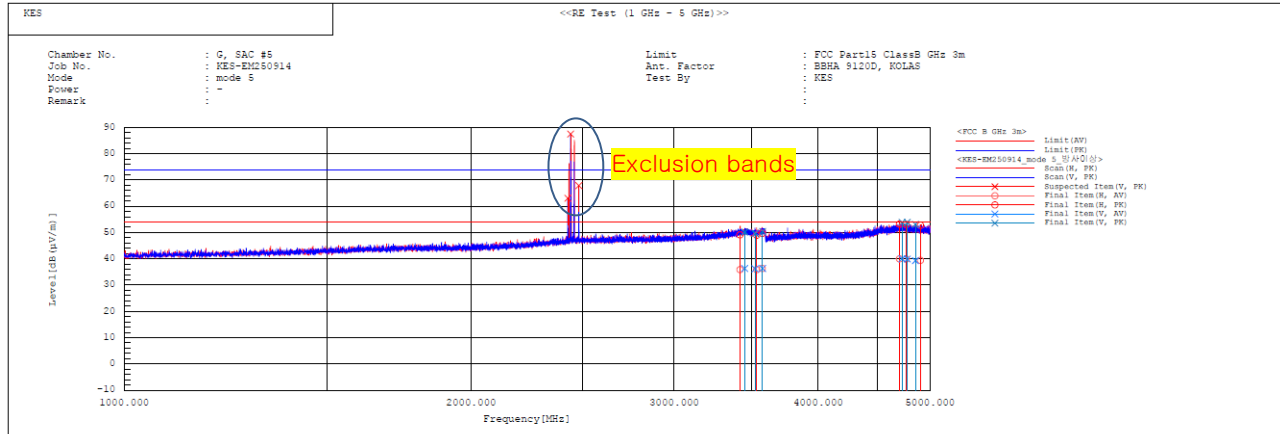
Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 605.933	27.500	V	1.000	34.410	9.970	34.770	37.110	54.000	16.890
8 674.276	27.200	H	1.000	37.260	10.960	33.750	41.670	54.000	12.330



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■ mode 5
- (1 ~ 5) GHz



* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) MHz



- (5 ~ 13) GHz

- PK

Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 594.962	40.900	V	1.000	34.360	9.550	34.780	50.030	74.000	23.970
7 866.098	40.900	H	1.000	36.520	11.260	33.890	54.790	74.000	19.210

- CISPR AV

Frequency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6 594.962	27.500	V	1.000	34.360	9.550	34.780	36.630	54.000	17.370
7 866.098	27.500	H	1.000	36.520	11.260	33.890	41.390	54.000	12.610

◆ Calculation

Result(PK/CAV) [dB(μ V/m)] = (Reading(QP)[dB(μ V)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μ V/m)] - Result(QP) [dB(μ V/m)]

Reading(PK/CAV) : Reading value, Result(QP) : Reading value + Factor value

Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value