



KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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Report No.:
KES-EM-22T0458
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EMC TEST REPORT

Test Report No. : KES-EM-22T0458
Date of Issue : Jun. 10, 2022
Product name : BATON PLUG
Model/Type No. : P-1
Variant Mode : -
Applicant : ROPE,.inc
Applicant Address : 3-302, startup-campus, 20, Pangyo-ro 289beon-gil,
Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Manufacturer : ROPE,.inc
Manufacturer Address : 3-302, startup-campus, 20, Pangyo-ro 289beon-gil,
Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
FCC ID : 2A7NSP-1
Date of Receipt : May. 16, 2022
Test date : May. 23, 2022
Test Results : **In Compliance** **Not in Compliance**

Tested by

Dae Hyun, Kim
EMC Test Engineer

Reviewed by

Dong Hun, Jang
EMC Technical Manager

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jun. 10, 2022	KES-EM-22T0458	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Item	Details
Communication Method	Bluetooth 2.4 GHz Band
Power	DC 5 V (USB)
Port	USB Male x 1 EA / USB Female x 1 EA
Size	(46 x 34 x 32) mm
Weight	18 g

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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.

- DC 12 V

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
BATON PLUG	P-1	-	ROPE,.inc	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Socket	-	-	-	-
Socket Charger	65209	-	Verbatim™	-
SmartPhone 1	A1429	-	Apple	-
SmartPhone 2	MT9J2KH/A	-	Apple	-

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1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
BATON PLUG (EUT)	USB	Socket Charger	USB	-	-
	Wireless	SmartPhone 2	Wireless	-	-
	USB	SmartPhone 1	Lighting Port	1.0	U
Socket Charger	Slot	Socket	Slot	-	-

* Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

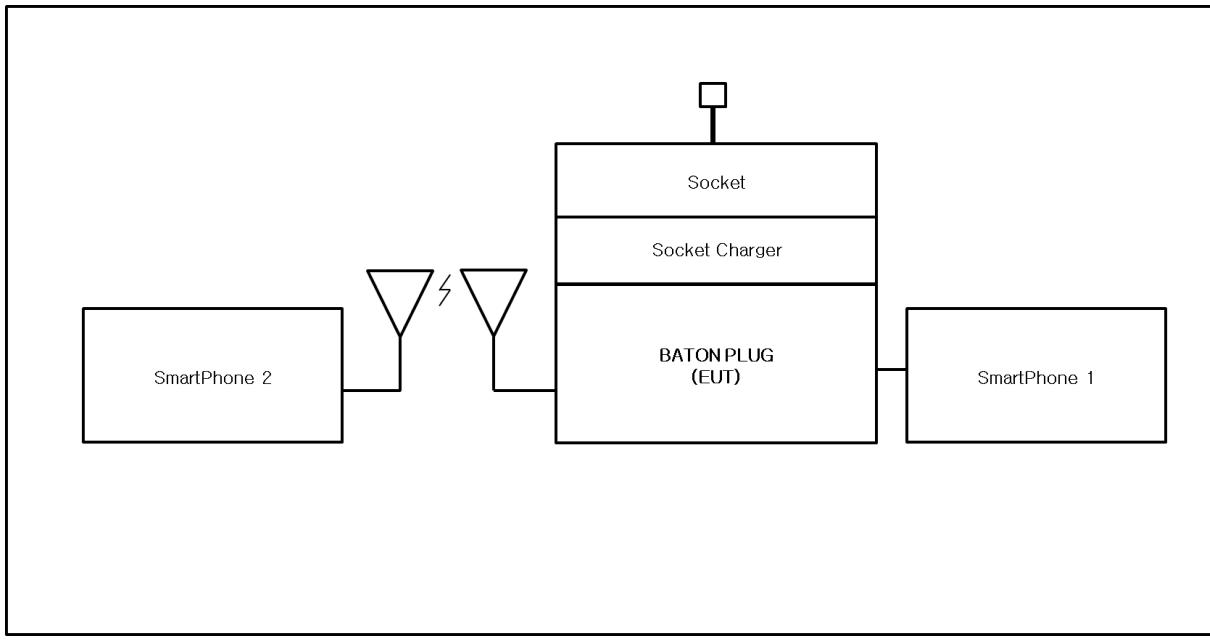
Test mode	operating
Operating	Tested it while checking whether it works normally through Application.

EUT Test operating S/W		
Name	Version	Manufacture Company
BATON SOS	1.2.9	rope, Inc.

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1.8 Configuration

- AC Main
- DC Main



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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, Yeoju-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4:2017 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



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1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Aechoic Chamber ,10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Aechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	 R-20056, C-20036 T-20040, G-20057
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

47 CFR Part 15, Subpart B

CISPR 22:2009 +A1:2010

Class A

Class B

ANSI C63.4-2017

Class A

Class B

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2.1 Conducted Emissions at Mains Power Ports

Test Date

N/A

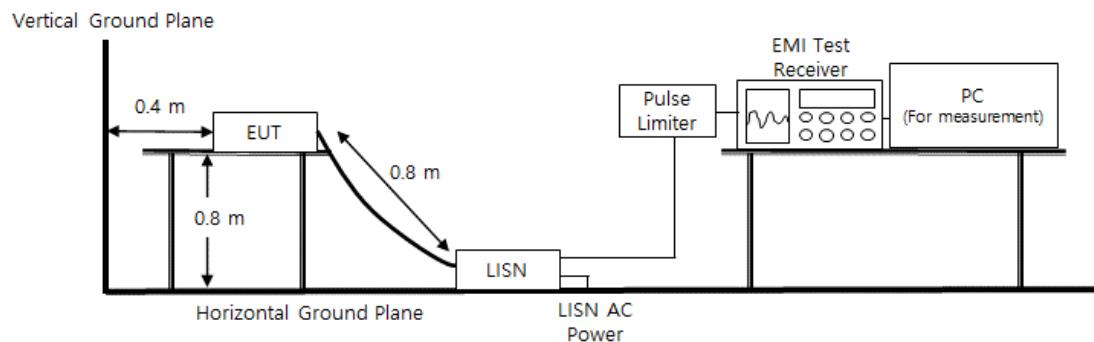
Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-	-
<input type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022	1 Year
<input type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022	1 Year
<input type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022	1 Year
<input type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022	1 Year

Diagram of test setup





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Test Conditions

Temperature: (\pm) °C
Relative Humidity: (\pm) % 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

N/A

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Mar. 28, 2022

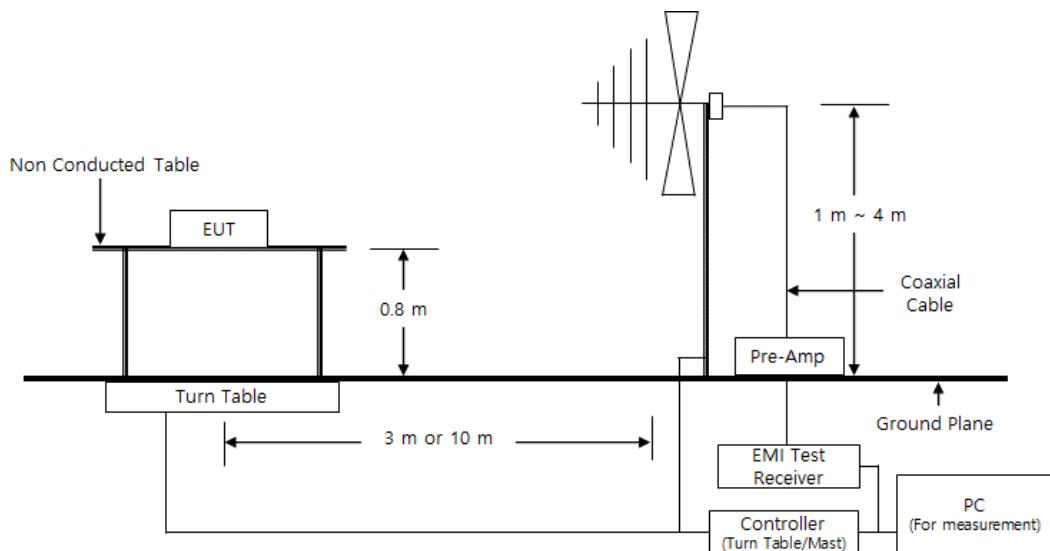
Test Location

OPEN AREA TEST SITE #2 SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022	1 Year
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	2 Year
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 08, 2023	1 Year

Diagram of test setup





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Test Conditions

Temperature: $(23,7 \pm 0,1)^\circ\text{C}$
Relative Humidity: $(42,3 \pm 0,1)\%$ 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.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

May. 23, 2022

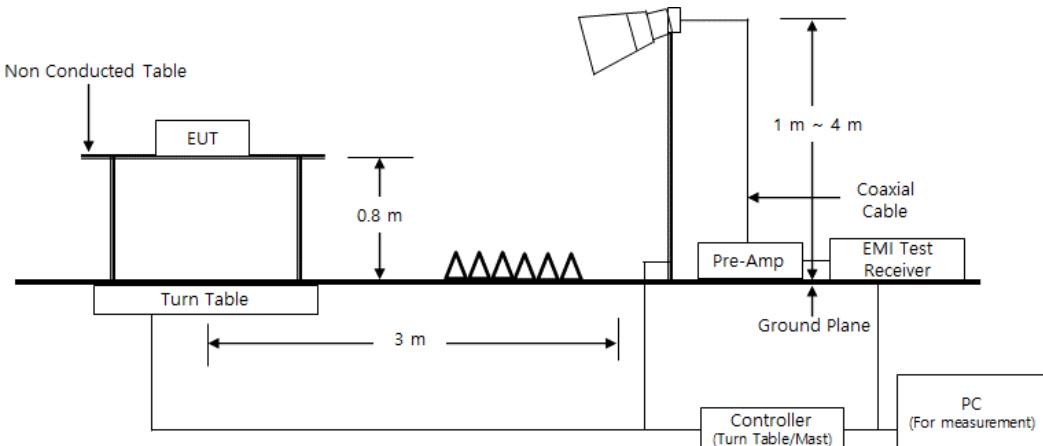
Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 27, 2022	1 Year
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022	1 Year

Diagram of test setup





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Test Conditions

Temperature: $(23,7 \pm 0,1)^\circ\text{C}$
Relative Humidity: $(42,3 \pm 0,1)\%$ R.H.

Frequency Range of Measurement

1 GHz to 12,5 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.

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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

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NEUTRAL LINE

N/A

◆ 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))

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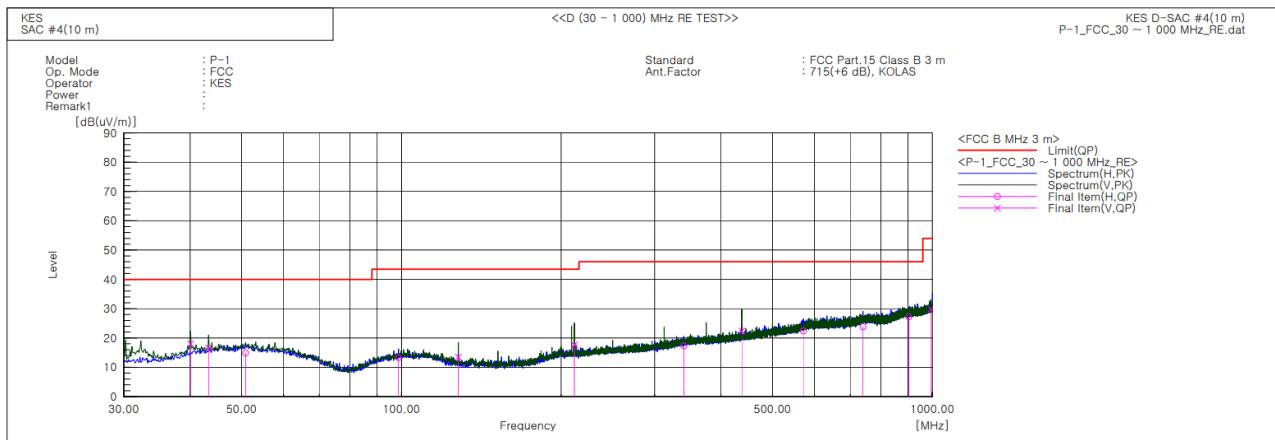


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Radiated Electric Field Emissions(Below 1 GHz)



Final Result

No.	Frequency [MHz]	(P) QP [dB(uV)]	Reading QP [dB(1/m)]	c.f	Result QP [dB(uV/m)]	Limit QP [dB]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	40.064	V	40.8	-22.8	18.0	40.0	22.0	100.0	353.0	
2	43.338	V	38.5	-21.9	16.6	40.0	23.4	119.0	358.0	
3	50.855	H	36.3	-21.4	14.9	40.0	25.1	400.0	159.0	
4	98.749	H	36.5	-23.2	13.3	43.5	30.2	400.0	147.0	
5	127.970	V	39.2	-25.7	13.5	43.5	30.0	156.0	122.0	
6	211.754	V	39.1	-21.4	17.7	43.5	25.8	137.0	307.0	
7	340.279	H	33.9	-16.6	17.3	46.0	28.7	355.0	301.0	
8	437.521	V	36.9	-14.5	22.4	46.0	23.6	100.0	121.0	
9	571.503	H	33.1	-10.7	22.4	46.0	23.6	400.0	183.0	
10	740.161	H	31.8	-8.0	23.8	46.0	22.2	241.0	246.0	
11	902.394	H	32.9	-5.7	27.2	46.0	18.8	400.0	277.0	
12	992.604	V	34.4	-4.5	29.9	54.0	24.1	100.0	132.0	

♦ Calculation – SAC #4(10 m)

$$\text{Result(QP)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(QP)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})]$$

$$\text{Margin(QP)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V}/\text{m})] - \text{Result(QP)} [\text{dB}(\mu\text{V}/\text{m})]$$

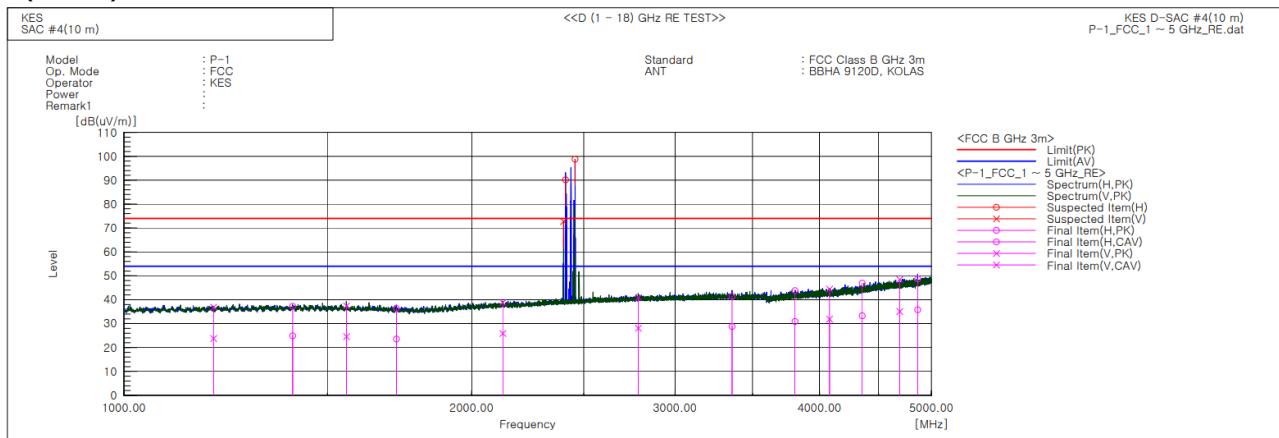
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

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

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Radiated Electric Field Emissions(Above 1 GHz)

- (1 ~ 5) GHz



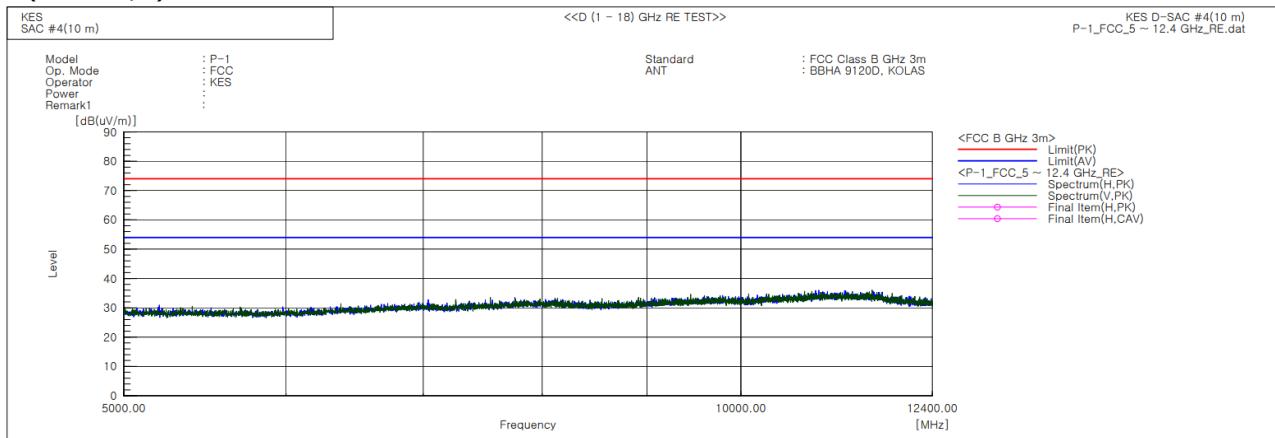
Final Result

No.	Frequency [MHz]	(P) PK [dB(uV)]	Reading CAV [dB(uV)]	Reading CAV [dB(1/m)]	c.f	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1195.627	V 41.8	28.7	-4.9	36.9	23.8	74.0	54.0	37.1	30.2	166.0	7.0		
2	1399.915	H 41.1	28.7	-3.8	37.3	24.9	74.0	54.0	36.7	29.1	100.0	10.0		
3	1558.320	V 40.5	27.7	-3.1	37.4	24.6	74.0	54.0	36.6	29.4	105.0	109.0		
4	1721.516	H 38.7	26.0	-2.4	36.3	23.6	74.0	54.0	37.7	30.4	269.0	265.0		
5	2127.955	V 39.5	26.6	-0.7	38.8	25.9	74.0	54.0	35.2	28.1	100.0	214.0		
6	2787.922	V 38.4	25.6	2.5	40.9	28.1	74.0	54.0	33.1	25.9	100.0	149.0		
7	3360.007	H 37.2	24.6	4.2	41.4	28.8	74.0	54.0	32.6	25.2	400.0	120.0		
8	3808.832	H 37.7	24.8	6.1	43.8	30.9	74.0	54.0	30.2	23.1	396.0	153.0		
9	4080.518	V 36.8	24.3	7.6	44.4	31.9	74.0	54.0	29.6	22.1	137.0	299.0		
10	4354.741	H 37.7	24.1	9.2	46.9	33.3	74.0	54.0	27.1	20.7	400.0	30.0		
11	4694.306	V 37.1	23.7	11.4	48.5	35.1	74.0	54.0	25.5	18.9	120.0	333.0		
12	4864.502	H 36.2	23.3	12.5	48.7	35.8	74.0	54.0	25.3	18.2	400.0	186.0		
13	2402.000	V -----	-----	0.8	-----	-----	74.0	54.0	-----	-----	150.0	211.0		
14	2411.000	H -----	-----	0.9	-----	-----	74.0	54.0	-----	-----	200.0	236.0		
15	2457.500	H -----	-----	1.1	-----	-----	74.0	54.0	-----	-----	100.0	167.0		

* Exclusion Bands

- Fundamental Frequency: 2.4 GHz Band

- (5 ~ 12,4) GHz



* No spurious emission were detected above 5 GHz.

◆ Calculation

$$\text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(PK/CAV)} [\text{dB}(\mu\text{V})] + \text{c.f}[\text{dB}(1/\text{m})])$$

$$\text{Margin(PK/CAV)} [\text{dB}] = \text{Limit}[\text{dB}(\mu\text{V}/\text{m})] - \text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})]$$

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

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

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KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

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APPENDIX B - Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

N/A

N/A

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