



EMC TEST REPORT

Test Report No. : KES-E1-19T0530-R1
Date of Issue : Nov. 21, 2019
Product name : 802.11abgn, USB module
Model/Type No. : WUBR-508N
Variant Mode : -
Applicant : SprakLAN Communications, Inc.
Applicant Address : 8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan
Manufacturer : SprakLAN Communications, Inc.
Manufacturer Address : 8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan
Equipment authorization : **Supplier's Declaration of Conformity**
Date of Receipt : Jun. 14, 2019
Test date : Jul. 22, 2019 ~ Jul. 23, 2019
Test Results : **In Compliance** **Not in Compliance**

Tested by

Tae Yeon, Kim
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
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 |
|---------------|-------------------|--|
| Sep. 04, 2019 | KES-E1-19T0530 | Issued |
| Nov. 21, 2019 | KES-E1-19T0530-R1 | Applicant change (DRTECH Corporation => SprakLAN Communications, Inc.) |
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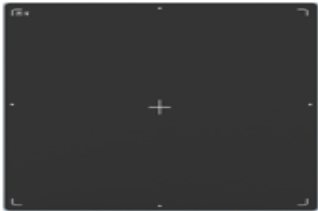

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1.0 General Product Description

Main Specifications of HOST are:

| | EVS 4343W / EVS 4343WG/EVS 4343WP | EVS 3643W / EVS 3643WG / EVS 3643WP |
|--------------------------|--|---|
| Image |  |  |
| Scintillator | EVS 4343W / EVS 4343WP (Cesium Iodide) EVS 4343WG (Gadolinium Oxysulfide) | EVS 3643W/ EVS 3643WP (Cesium Iodide) EVS 3643WG (Gadolinium Oxysulfide) |
| Interface | Wireless: Gigabit Ethernet | |
| Purpose | General Radiography | |
| Pixel Pitch | 140 um | |
| Image Matrix Size | 3072 × 3072 pixels | 2560 × 3072 pixels |
| Effective Imaging Area | 430 × 430 mm | 358 × 430 mm |
| Preview Time | < 2 sec | |
| Image Acquisition Time | < 4.6 sec | |
| Spatial Resolution | Min. 3.5 line pair/mm | |
| Power Supply | 12 Vdc, 7.08 A | |
| Power Consumption | 15W (Max) | |
| Dimensions (mm) | 460 (W) × 460 (H) × 15 (D) | 460 (W) × 386 (H) × 15 (D) |
| Weight (kg) | 3.45 kg | 2.98 kg |
| Wireless Frequency range | 2412 MHz ~ 2472 MHz (802.11b,g,n (20MHz)) 2422 MHz ~ 2462 MHz (802.11n (40MHz)) 5180 MHz ~ 5240 MHz (802.11a,n (20MHz)) 5190 MHz ~ 5230 MHz (802.11n (40MHz)) 5260 MHz ~ 5320 MHz (802.11a,n (20 MHz)) 5270 MHz ~ 5310 MHz (802.11n (40 MHz)) 5500 MHz ~ 5700 MHz (802.11a,n (20 MHz)) 5510 MHz ~ 5670 MHz (802.11n (40 MHz)) | |
| Wireless Modulation type | 802.11 b,g,n,a | |
| Wireless Output Power | 2.4 GHz : 19.12 dBm (802.11b,g,n) 5 GHz : 22.87 dBm (802.11a,n) | |
| Wireless Channel | 2.4 GHz : 13ch / 11ch 5 GHz : 4ch / 2ch / 11ch / 5ch | |
| Antenna Gain (peak) | 2.4 GHz : 3.0 dBi 5 GHz : 5.0 dBi | |

Host model information

| | |
|----------------------|---|
| Host model No. | EVS 4343W |
| Derived model (s) | EVS 4343WG, EVS 4343WP, EVS3643WP, EVS 3643W, EVS 3643WG |
| Applicant | DRTECH Corporation |
| Address | Suite No.1, 1Floor / Suite No.2 3Floor, 29, Dunchon-daero 541 beon- gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13216, Korea |
| Telephone | +82-31-779-7784 |
| Fax | +82-31-779-7790 |
| E-mail | mwkim@drtech.co.kr |
| Contact name | Minwoo Kim |
| Manufacturer | DRTECH Corporation |
| Manufacturer Address | Suite No.1, 1Floor / Suite No.2 3Floor, 29, Dunchon-daero 541 beon- gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13216, Korea |

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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.

Voltage 230 Vac 120 Vac 24 Vac 12 Vdc BATTERY

Frequency 50 Hz 60 Hz

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 HOST information

| Description | Model Number | Serial Number | Manufacturer | Remarks |
|-----------------------------------|------------------|---------------|---|---------|
| Flat Panel Digital X-ray Detector | EVS 4343W | - | DRTECH Corporation | HOST |
| USB C-type Gender | - | - | - | HOST |
| MEDICAL AC/DC ADAPTOR | MANGO60S-USB-PDA | - | Shenzhen Megmeet Electronical Co., Ltd. | HOST |

1.5 Support Equipments

| Description | Model Number | Serial Number | Manufacturer | Remarks |
|---------------|--------------|---------------|--------------------------------------|---------|
| Notebook | LG15N54 | 410NZXE015458 | LG Electronics | - |
| AC/DC Adaptor | ADP-90WH B | 84ZW19F1747 | DELTA ELECTRONICS (JIANGSU) LTD. | - |
| AP | A2004plus | - | IpTIME | - |
| AC/DC Adaptor | TY-2007 | - | Zioncoin Electronics (Shenzhen) Ltd. | - |

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1.6 External I/O Cabling

| Start | | END | | Cable Spec. | |
|--|----------|-------------|----------|-------------|--------|
| Description | I/O Port | Description | I/O Port | Length | Shield |
| Flat Panel Digital X-ray Detector (HOST) | Wireless | AP | Wireless | - | - |
| AP | RJ-45 | Notebook | RJ-45 | 5.0 | S |

* Unshielded=U, Shielded=S

1.7 HOST Operating Mode(s)

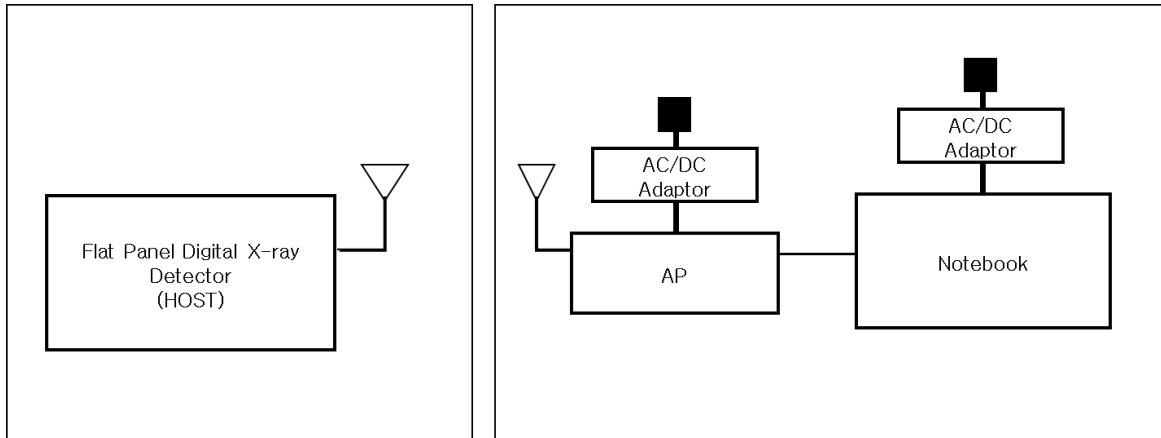
| Test mode | operating |
|----------------------------|--|
| WIFI 2.4 GHz WIFI 5 GHz | Connect HOST and Laptop Wirelessly Continuous acquisition of images at 30-second intervals. |

| HOST Test operating S/W | | |
|-------------------------|---------|---------------------|
| Name | Version | Manufacture Company |
| ECali1 | - | DRTECH Corporation |

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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, Yeosu-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4:2014 and CISPR 16-1-4:2012

1.12 Laboratory Accreditations and Listings

| Country | Agency | Scope of Accreditation | Logo |
|---------------|----------------|--|--|
| KOREA | RRA | EMI (3 m & 10 m Semi-Anechoic 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-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, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements. |  KR0100 |
| Canada | ISED | 3 m & 10 m Semi-Anechoic Chamber and Conducted test site |  23298-1 |
| 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-Anechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) |  CARAT 001633 0003 |

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

EMC – Directive 2014/30/EU

EN 61000-6-3:2011

EN 61000-6-1:2007

EN 61000-6-4:2007 +A1:2011

EN 61000-6-2:2005

EN 55011:2007 +A1:2010

Group 1

Group 2

Class A

Class B

EN 55014-1:2006 +A2:2011

EN 55014-2:1997 +A2:2008

EN 55015:2013

EN 55032:2015

Class A

Class B

EN 55024:2010

EN 50130-4:2011 +A1:2014

EN 61000-3-2:2014

EN 61000-3-3:2013

EN 61326-1:2013



-
- | | | |
|--|---|----------------------------------|
| <input type="checkbox"/> VCCI-CISPR 32:2016 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> AS/NZS CISPR32:2015 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> 47 CFR Part 15, Subpart B | | |
| <input type="checkbox"/> CISPR 22:2009 +A1:2010 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> ANSI C63.4-2014 | <input checked="" type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> IC Regulation ICES-003 : 2016 | | |
| <input type="checkbox"/> CAN/CSA CISPR 22-10 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> ANSI C63.4-2014 | <input checked="" type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> RE– Directive 2014/53/EU | | |
| <input type="checkbox"/> EN 301 489-1 V1.9.2 | | |
| <input type="checkbox"/> Equipment for fixed use | | |
| <input type="checkbox"/> Equipment for vehicular use | | |
| <input type="checkbox"/> Equipment for portable use | | |
| <input type="checkbox"/> EN 301 489-3 V1.6.1 | | |
| <input type="checkbox"/> EN 301 489-17 V2.2.1 | | |
| <input type="checkbox"/> EN 60945:2002 | | |

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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 |
|--------------------------|-------------------|--------------|--------------|---------------|--------------|
| <input type="checkbox"/> | EMI Test S/W | EMC32 | R & S | 9.12.00 | - |
| <input type="checkbox"/> | EMI TEST RECEIVER | ESR3 | R & S | 101781 | 04, 22, 2020 |
| <input type="checkbox"/> | LISN | ENV216 | R & S | 101787 | 01, 04, 2020 |
| <input type="checkbox"/> | LISN | ESH2-Z5 | R & S | 100450 | 04, 22, 2020 |
| <input type="checkbox"/> | PULSE LIMITER | ESH3-Z2 | R & S | 101915 | 11, 26, 2019 |

Test Conditions

Temperature: °C
Relative Humidity: % 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



2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jul. 22, 2019

Test Location

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

Test Equipment

| Used | Description | Model Number | Manufacturer | Serial Number | Cal. Due |
|-------------------------------------|--------------------------|--------------|------------------|---------------|--------------|
| <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 | 04, 09, 2020 |
| <input checked="" type="checkbox"/> | AMPLIFIER | SCU 01 | R & S | 100603 | 11, 26, 2019 |
| <input checked="" type="checkbox"/> | TRILOG-BROADBAND ANTENNA | VULB9163 | Schwarzbeck | 715 | 11, 29, 2020 |
| <input checked="" type="checkbox"/> | ATTENUATOR | 8491A | HP | 32173 | 03, 11, 2020 |

Test Conditions

Temperature: 24,8 °C
Relative Humidity: 57,5 % 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.

2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jul. 23, 2019

Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

| Used | Description | Model Number | Manufacturer | Serial Number | Cal. Due |
|-------------------------------------|-------------------|--------------|------------------|---------------|--------------|
| <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 | 04, 09, 2020 |
| <input checked="" type="checkbox"/> | PREAMPLIFIER | 8449B | AGILENT | 3008A01742 | 01, 08, 2020 |
| <input checked="" type="checkbox"/> | ATTENUATOR | 8491A | HP | 35496 | 03, 11, 2020 |
| <input checked="" type="checkbox"/> | HORN ANTENNA | BBHA 9120D | SCHWARZBECK | 9120D-1802 | 03, 12, 2020 |

Test ConditionsTemperature: 23,7 °C
Relative Humidity: 53,4 % R.H.**Frequency Range of Measurement**

1 GHz to 5 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- PASS
 NOT PASS
 NOT APPLICABLE

RemarksOperating mode exclosion Bandi 2.4 GHz, 5GHz



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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

N/A

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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.

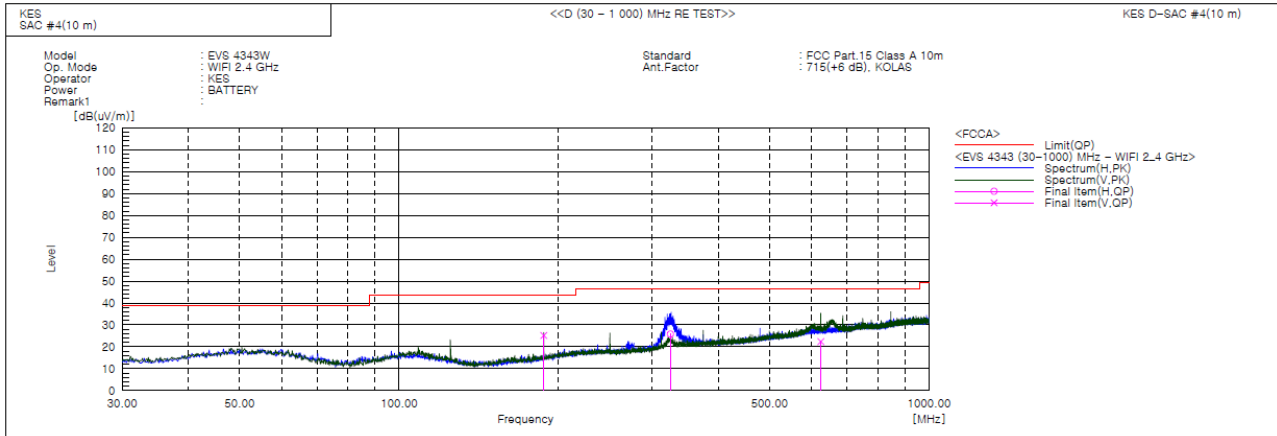
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Radiated Electric Field Emissions(Below 1 GHz)

- WIFI 2.4 GHz



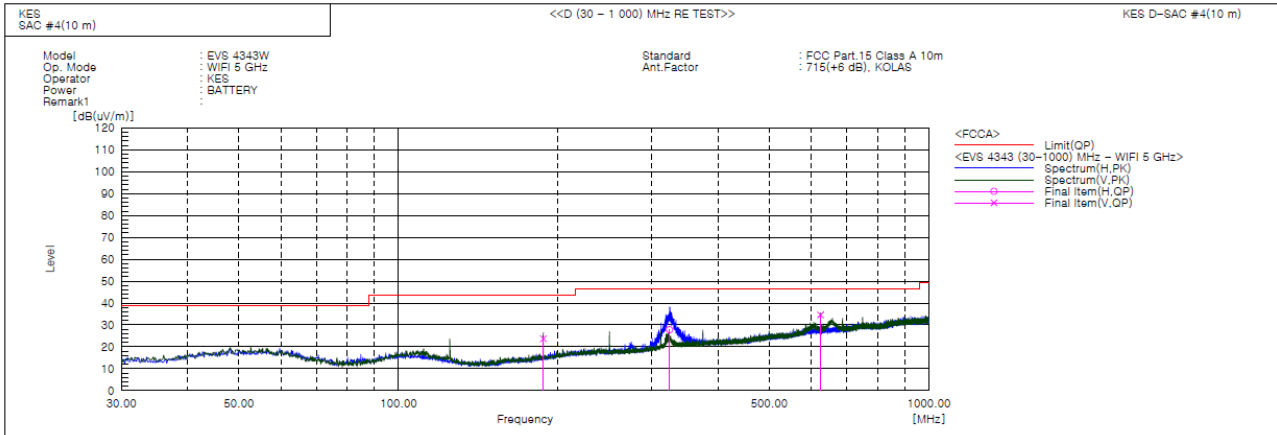
Final Result

| No. | Frequency [MHz] | (P) | Reading QP [dB(uV)] | c.f [dB(1/m)] | Result QP [dB(uV/m)] | Limit QP [dB(uV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-------------|--------|
| 1 | 187.504 | V | 48.3 | -23.1 | 25.2 | 43.5 | 18.3 | 100.0 | 177.0 | |
| 2 | 325.123 | H | 42.9 | -17.1 | 25.8 | 46.5 | 20.7 | 400.0 | 349.0 | |
| 3 | 625.095 | V | 31.9 | -9.5 | 22.4 | 46.5 | 24.1 | 154.0 | 258.0 | |

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- WIFI 5 GHz



Final Result

| No. | Frequency [MHz] | (P) | Reading QP [dB(uV)] | c.f [dB(1/m)] | Result QP [dB(uV/m)] | Limit QP [dB(uV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|---------------------|---------------|----------------------|---------------------|----------------|-------------|-------------|--------|
| 1 | 187.534 | V | 46.8 | -23.1 | 23.7 | 43.5 | 19.8 | 100.0 | 94.2 | |
| 2 | 324.516 | H | 45.0 | -17.2 | 27.8 | 46.5 | 18.7 | 400.0 | 284.0 | |
| 3 | 624.974 | V | 44.1 | -9.5 | 34.6 | 46.5 | 11.9 | 139.0 | 257.0 | |

◆ Calculation - SAC #4(10 m)

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

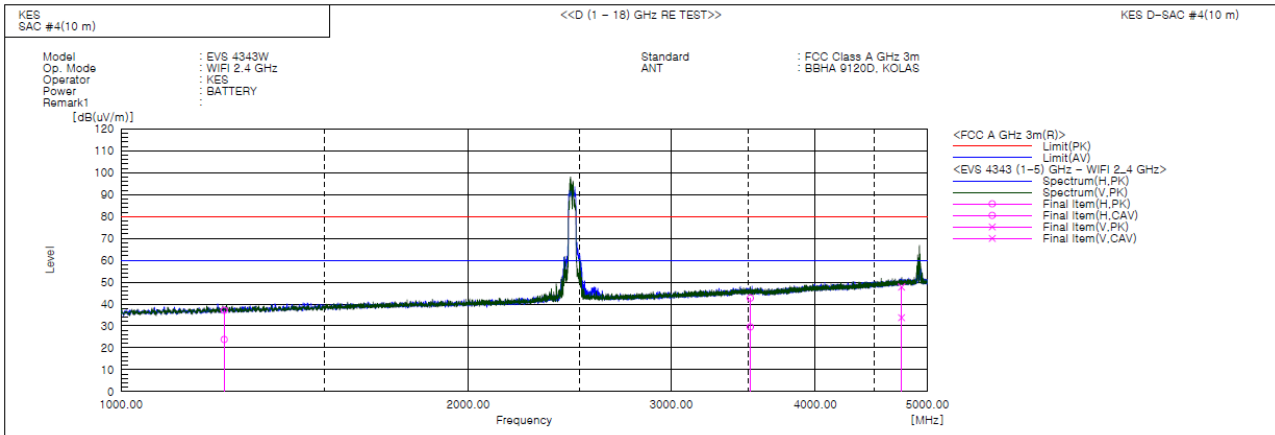
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

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Radiated Electric Field Emissions(Above 1 GHz)

- (1-5) GHz - WIFI 2.4 GHz



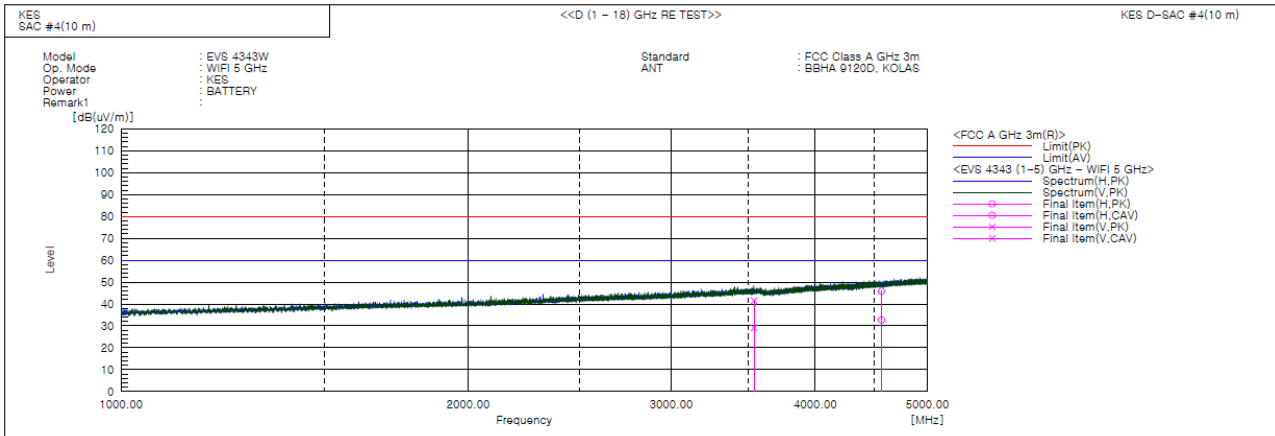
Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(uV)] | Reading CAV [dB(uV)] | c. f [dB(1/m)] | Result PK [dB(uV/m)] | Result CAV [dB(uV/m)] | Margin PK [dB] | Margin CAV [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|---------------------|----------------------|----------------|----------------------|-----------------------|----------------|-----------------|-------------|-------------|--------|
| 1 | 1229.025 | H | 41.8 | 28.5 | -4.7 | 37.1 | 23.8 | 42.9 | 36.2 | 215.0 | 145.0 | |
| 2 | 3512.870 | H | 37.4 | 24.3 | 5.3 | 42.7 | 29.6 | 37.3 | 30.4 | 344.0 | 74.0 | |
| 3 | 4750.520 | V | 37.3 | 23.3 | 10.5 | 47.8 | 33.8 | 32.2 | 26.2 | 352.0 | 151.0 | |
| 4 | 2448.000 | H | ----- | ----- | 1.6 | ----- | ----- | ----- | ----- | 100.0 | 139.0 | |
| 5 | 4896.000 | H | ----- | ----- | 11.0 | ----- | ----- | ----- | ----- | 400.0 | 29.0 | |
| 6 | 2453.500 | V | ----- | ----- | 1.6 | ----- | ----- | ----- | ----- | 100.0 | 7.0 | |
| 7 | 4906.000 | V | ----- | ----- | 11.1 | ----- | ----- | ----- | ----- | 100.0 | 263.0 | |

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- (1-5) GHz - WIFI 5 GHz



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB(1/m)] | Result PK [dB(uV/m)] | Result CAV [dB(uV/m)] | Margin PK [dB] | Margin CAV [dB] | Height [cm] | Angle [deg] | Remark |
|-----|-----------------|-----|---------------------|----------------------|---------------|----------------------|-----------------------|----------------|-----------------|-------------|-------------|--------|
| 1 | 4564.500 | H | 36.0 | 22.9 | 9.8 | 45.8 | 32.7 | 34.2 | 27.9 | 400.0 | 203.0 | |
| 2 | 3539.000 | V | 36.2 | 23.7 | 5.4 | 41.6 | 29.1 | 38.4 | 30.9 | 400.0 | 158.0 | |

◆ Calculation

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

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

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: Margin value

* No Spurious emission were detected above 5 GHz

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