

FCC RF Test Report

(2.4G Wi-Fi)

Report No.: JYTSZ-R12-2400166
Applicant: Hangzhou Roombanker Technology Co., Ltd.
Address of Applicant: A#801 Wantong center, Hangzhou, China

Equipment Under Test (EUT)

Product Name: Industrial AI Edge Computing Gateway
Model No.: DSGW-380, DSGW-380-1, DSGW-380-2, DSGW-380-3, DSGW-380-4, DSGW-380-X(X:1~29)
Trade Mark: Roombanker
FCC ID: 2AUXBDSGW-380
Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)
Date of Sample Receipt: 26 Feb., 2024
Date of Test: 27 Feb., to 29 May, 2024
Date of Report Issued: 29 May, 2024
Test Result: PASS

Project by: _____

Date: _____

29 May, 2024

Reviewed by: _____

Date: _____

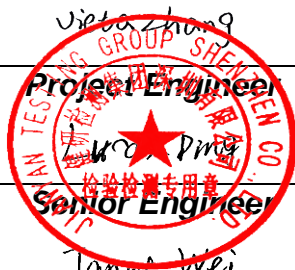
29 May, 2024

Approved by: _____

Date: _____

29 May, 2024

Manager



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	29 May, 2024	Original

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3 General Information

3.1 Client Information

Applicant:	Hangzhou Roombanker Technology Co., Ltd.
Address:	A#801 Wantong center, Hangzhou, China
Manufacturer/Factory:	Zhejiang Dusun Electron Co., Ltd.
Address:	No.640 Feng Qing St, DeQing Zhejiang China

3.2 General Description of E.U.T.

Product Name:	Industrial AI Edge Computing Gateway
Model No.:	DSGW-380, DSGW-380-1, DSGW-380-2, DSGW-380-3, DSGW-380-4, DSGW-380-X(X:1~29)
Operation Frequency:	2412 MHz - 2462 MHz (802.11b, g, n-HT20,ax-HE20) 2422 MHz - 2452 MHz (802.11n-HT40, ax-HE40)
Channel Numbers:	11 (802.11b, g, n-HT20, ax-HE20) 7 (802.11n-HT40, ax-HE40)
Channel Separation:	5MHz
Modulation Technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation Technology: (IEEE 802.11g/n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Modulation Technology: (IEEE 802.11ax)	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Antenna Type:	External Antenna
Antenna Gain:	Wi-Fi ANT 1 : 1.61 dBi (declare by applicant) Wi-Fi ANT 2 : 1.61 dBi (declare by applicant)
Antenna Transmit Mode:	MIMO (2TX, 2RX)
Power Supply:	DC 12V
Remark:	Model No.: DSGW-380, DSGW-380-1, DSGW-380-2, DSGW-380-3, DSGW-380-4, DSGW-380-X(X:1~29) were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
Per-scan all kind of data rate, the follow list were the worst case:	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n-HT20	6.5Mbps
802.11n-HT40	13.5Mbps
802.11ax-HE20	8.6Mbps
802.11ax-HE40	17.2Mbps
Remark:	
1. For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11b, g, n modulation mode, found 802.11b modulation mode was worse case mode. The report only reflects the test data of worst mode. 2. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 12.0Vdc
Test Engineer:	Robin Gu, Asher Zhang(Radiated measurement)

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	3.57 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 dB
Radiated Emission (30MHz ~ 200MHz) (10m SAC)	4.3 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	4.3 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	3.43 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.9 Test Instruments List

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	07-14-2023	07-13-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-28-2023	12-27-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-28-2023	12-27-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	05-14-2023	05-13-2024
				04-24-2024	04-23-2025
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	05-14-2023	05-13-2024
				04-24-2024	04-23-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-28-2023	12-27-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-27-2023	12-26-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-13-2023	06-12-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2026
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	01-05-2024	01-04-2025
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	12-28-2023	12-27-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-3	12-27-2023	12-26-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-4	12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	12-27-2023	12-26-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	12-27-2023	12-26-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-17-2024	01-16-2025
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-17-2024	01-16-2025
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	07-05-2023	07-04-2024
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-27-2023	12-26-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-27-2023	12-26-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-17-2024	01-16-2025
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	11-01-2023	10-31-2024
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	09-25-2023	09-24-2024
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

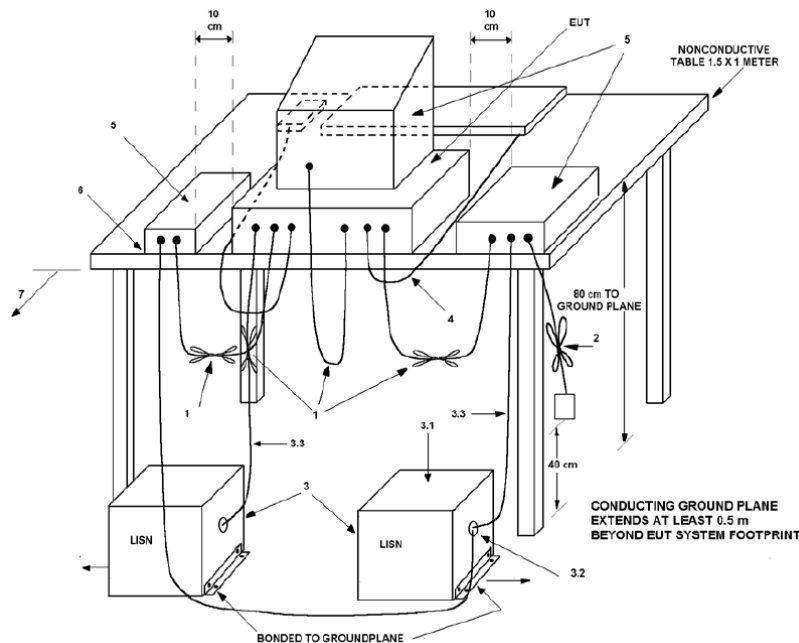
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20, 802.11ax-HE20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

802.11n-HT40, 802.11ax-HE40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

4.2 Test Setup

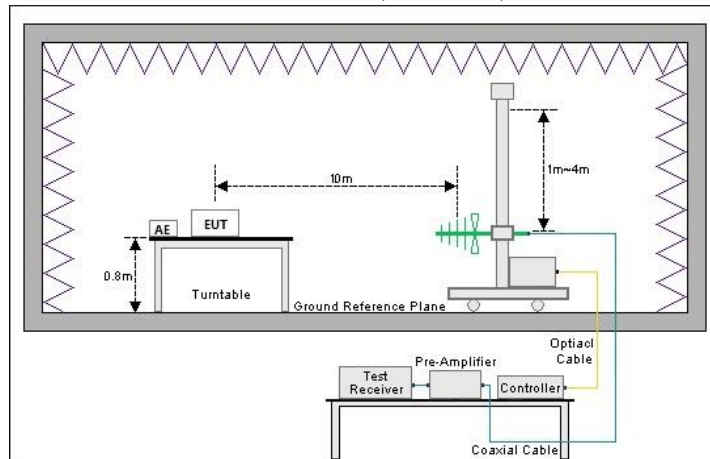
1) Conducted emission measurement:



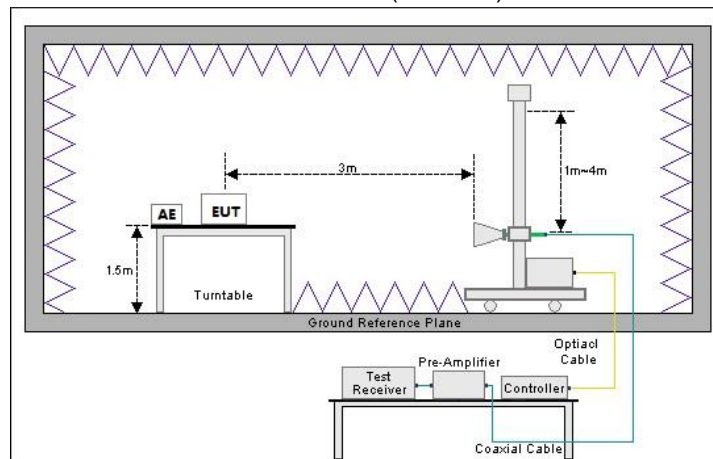
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

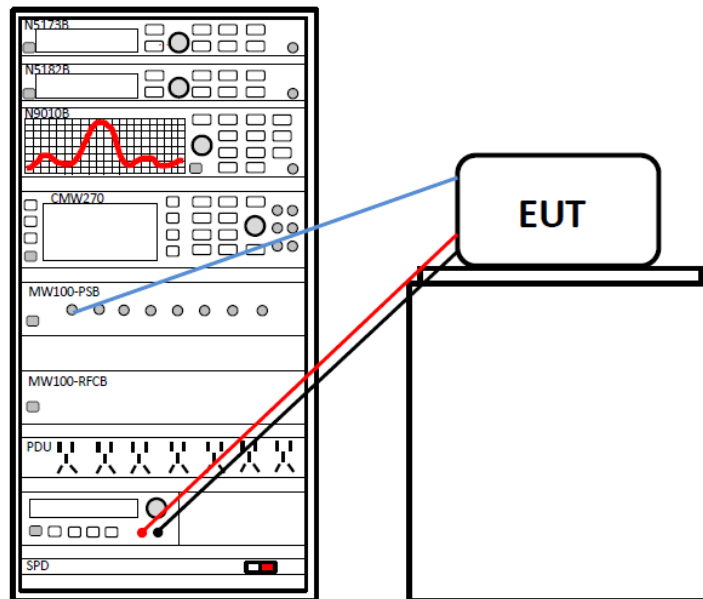
Below 1GHz (10m SAC)



Above 1GHz (3m FAR)



3) Conducted test method



4.3 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	<ol style="list-style-type: none"> 1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	See Section 5.3	Pass
Duty Cycle	ANSI C63.10-2013	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Conducted Output Power	15.247 (b)(3)	1.Appendix A– 2.4G Wi-Fi Appendix A– 2.4G Wi-Fi (Power) 2.Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	1.Pass 2.Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Power Spectral Density	15.247 (e)	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.	Please refer to FCC ID: 2AL6KBL-M8852BS2, report No.: ZKT-2310248076E-2.
Remark:			
1. Pass: The EUT complies with the essential requirements in the standard.			
2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
3. Please refer to 2AL6KBL-M8852BS2, report No.:ZKT-2310248076E-2.issued by Shenzhen ZKT Technology Co., Ltd.			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5.1.2 Test Limit

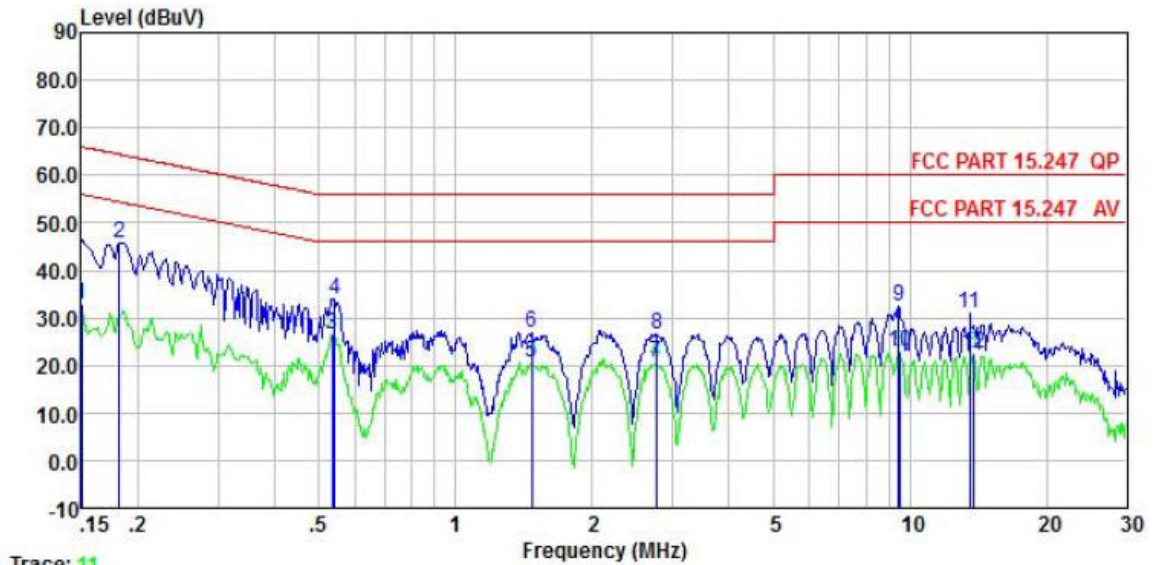
Test items	Limit																														
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 to 56 <small>Note 1</small></td> <td>56 to 46 <small>Note 1</small></td> </tr> <tr> <td>0.5 – 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 – 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</p>	Frequency (MHz)	Limit (dB μ V)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dB μ V)																														
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0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																														
Band-edge Emission Conduction Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																														
Emissions in Restricted Frequency Bands Emissions in Non-restricted Frequency Bands	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dBμV/m)</th> <th rowspan="2">Detector</th> </tr> <tr> <th>@ 3m</th> <th>@ 10m</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>40.0</td> <td>30.0</td> <td>Quasi-peak</td> </tr> <tr> <td>88 – 216</td> <td>43.5</td> <td>33.5</td> <td>Quasi-peak</td> </tr> <tr> <td>216 – 960</td> <td>46.0</td> <td>36.0</td> <td>Quasi-peak</td> </tr> <tr> <td>960 – 1000</td> <td>54.0</td> <td>44.0</td> <td>Quasi-peak</td> </tr> </tbody> </table> <p>Note: The more stringent limit applies at transition frequencies.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="2">Limit (dBμV/m) @ 3m</th> </tr> <tr> <th>Average</th> <th>Peake</th> </tr> </thead> <tbody> <tr> <td>Above 1 GHz</td> <td>54.0</td> <td>74.0</td> </tr> </tbody> </table> <p>Note: The measurement bandwidth shall be 1 MHz or greater.</p>	Frequency (MHz)	Limit (dB μ V/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dB μ V/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dB μ V/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dB μ V/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													

5.2 Antenna Requirement

Standard Requirement:	FCC Part 15 C Section 15.203/15.247 (b)(4)
<p>15.203 requirement: 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, 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.</p> <p>15.247 (b)(4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
E.U.T Antenna:	
<p>The Wi-Fi antenna is external antenna which cannot replace by end-user, the best case gain of the antenna are Wi-Fi ANT 1: 1.61 dBi and Wi-Fi ANT 2: 1.61 dBi. See product internal photos for details.</p>	

5.3 AC Power Line Conducted Emission

Product name:	Industrial AI Edge Computing Gateway	Product model:	DSGW-380
Test by:	Asher Zhang	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



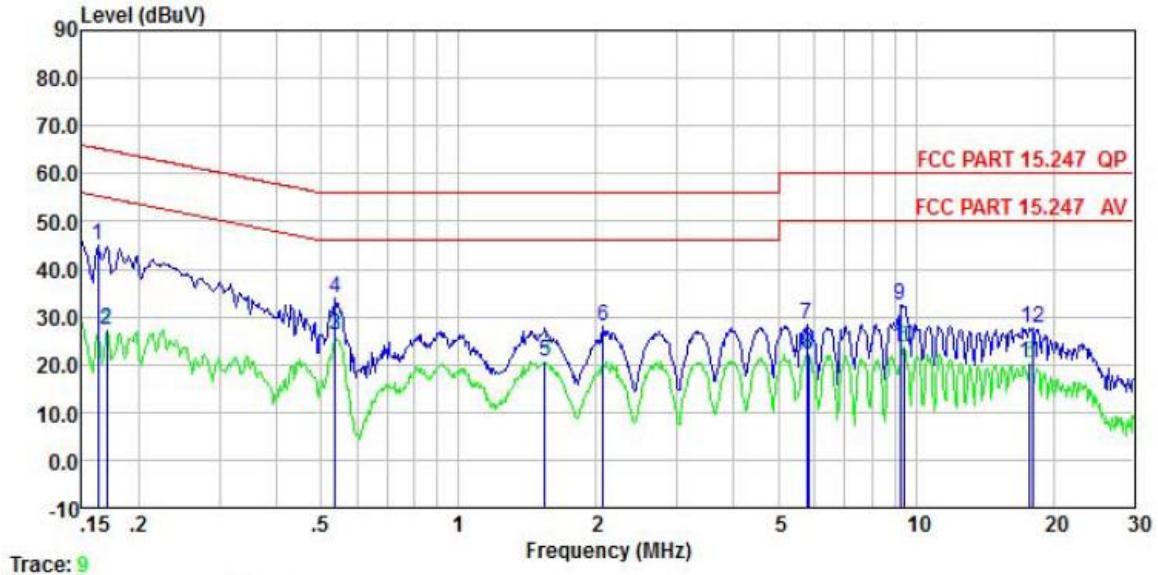
Trace: 11

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	21.92	0.20	0.00	10.50	0.01	32.63	56.00	-23.37	Average
2	0.182	34.88	0.20	0.00	10.50	0.01	45.59	64.42	-18.83	QP
3	0.535	15.96	0.20	0.00	10.50	0.03	26.69	46.00	-19.31	Average
4	0.541	23.34	0.20	0.00	10.50	0.03	34.07	56.00	-21.93	QP
5	1.472	9.84	0.20	0.00	10.50	0.14	20.68	46.00	-25.32	Average
6	1.472	16.06	0.20	0.00	10.50	0.14	26.90	56.00	-29.10	QP
7	2.765	9.69	0.20	0.00	10.50	0.10	20.49	46.00	-25.51	Average
8	2.779	15.77	0.20	0.00	10.50	0.10	26.57	56.00	-29.43	QP
9	9.451	21.50	0.20	0.00	10.50	0.12	32.32	60.00	-27.68	QP
10	9.502	11.84	0.20	0.00	10.50	0.12	22.66	50.00	-27.34	Average
11	13.551	19.94	0.27	0.00	10.50	0.12	30.83	60.00	-29.17	QP
12	13.768	11.42	0.28	0.00	10.50	0.12	22.32	50.00	-27.68	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Industrial AI Edge Computing Gateway	Product model:	DSGW-380
Test by:	Asher Zhang	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 9

	Read Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	34.30	0.20	0.00	10.50	0.01	45.01	65.34	-20.33	QP
2	0.170	16.56	0.20	0.00	10.50	0.01	27.27	54.94	-27.67	Average
3	0.538	15.37	0.20	0.00	10.50	0.03	26.10	46.00	-19.90	Average
4	0.538	23.33	0.20	0.00	10.50	0.03	34.06	56.00	-21.94	QP
5	1.544	9.74	0.26	0.00	10.50	0.15	20.65	46.00	-25.35	Average
6	2.066	17.00	0.30	0.00	10.50	0.20	28.00	56.00	-28.00	QP
7	5.774	17.57	0.30	0.00	10.50	0.09	28.46	60.00	-31.54	QP
8	5.836	11.17	0.30	0.00	10.50	0.09	22.06	50.00	-27.94	Average
9	9.253	21.60	0.38	0.00	10.50	0.11	32.59	60.00	-27.41	QP
10	9.451	12.49	0.38	0.00	10.50	0.12	23.49	50.00	-26.51	Average
11	17.755	9.14	0.40	0.00	10.50	0.15	20.19	50.00	-29.81	Average
12	17.944	16.76	0.40	0.00	10.50	0.15	27.81	60.00	-32.19	QP

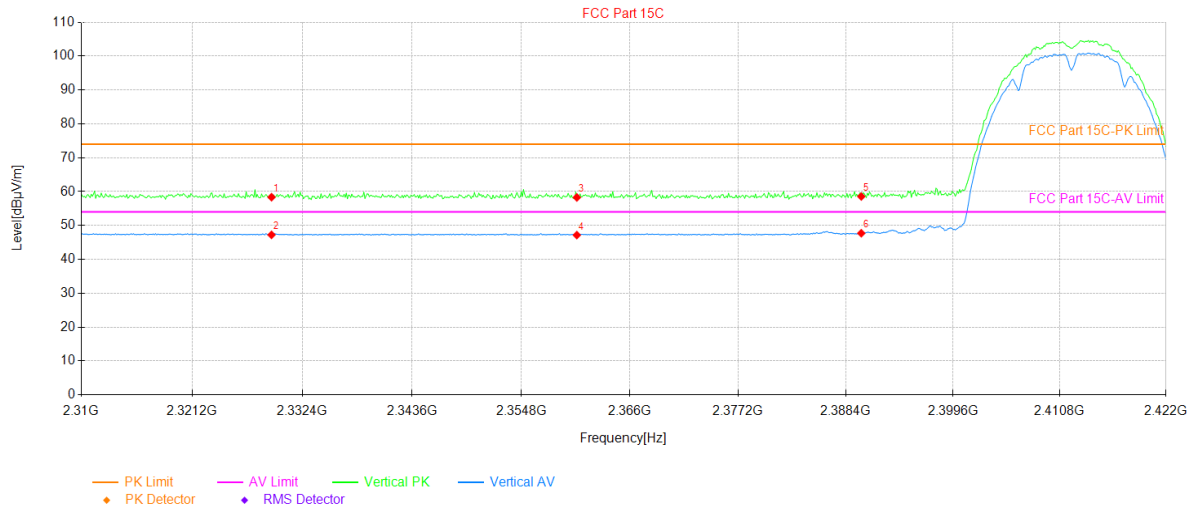
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.4 Emissions in Restricted Frequency Bands

ANT1:

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

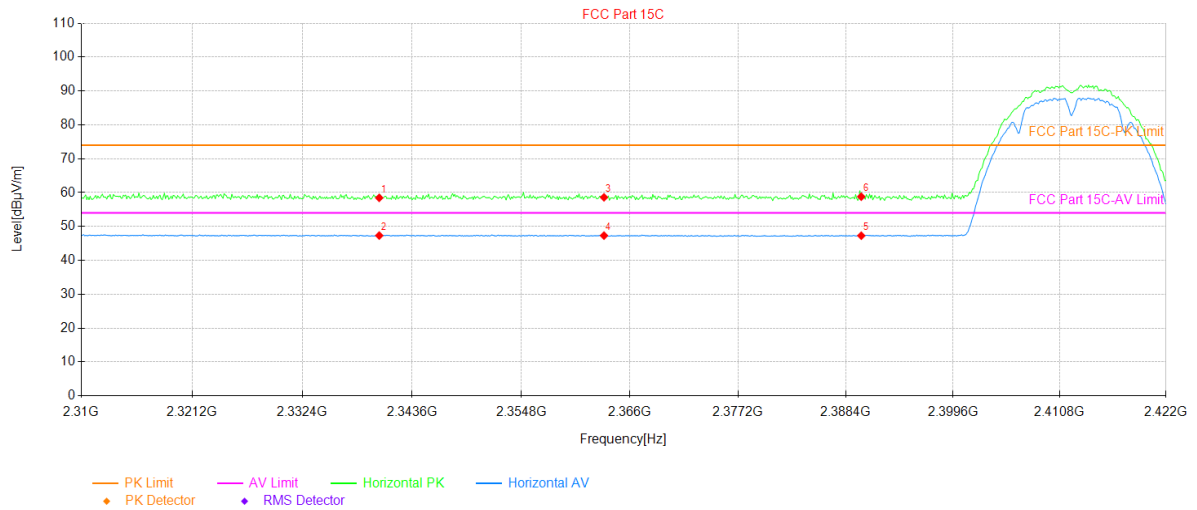


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.26	22.23	36.13	58.36	74.00	15.64	88	PK	PASS	Vertical
2	2329.26	11.11	36.13	47.24	54.00	6.76	318	AV	PASS	Vertical
3	2360.51	21.96	36.32	58.28	74.00	15.72	276	PK	PASS	Vertical
4	2360.51	10.84	36.32	47.16	54.00	6.84	141	AV	PASS	Vertical
5	2390.00	22.09	36.47	58.56	74.00	15.44	206	PK	PASS	Vertical
6	2390.00	11.24	36.47	47.71	54.00	6.29	103	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

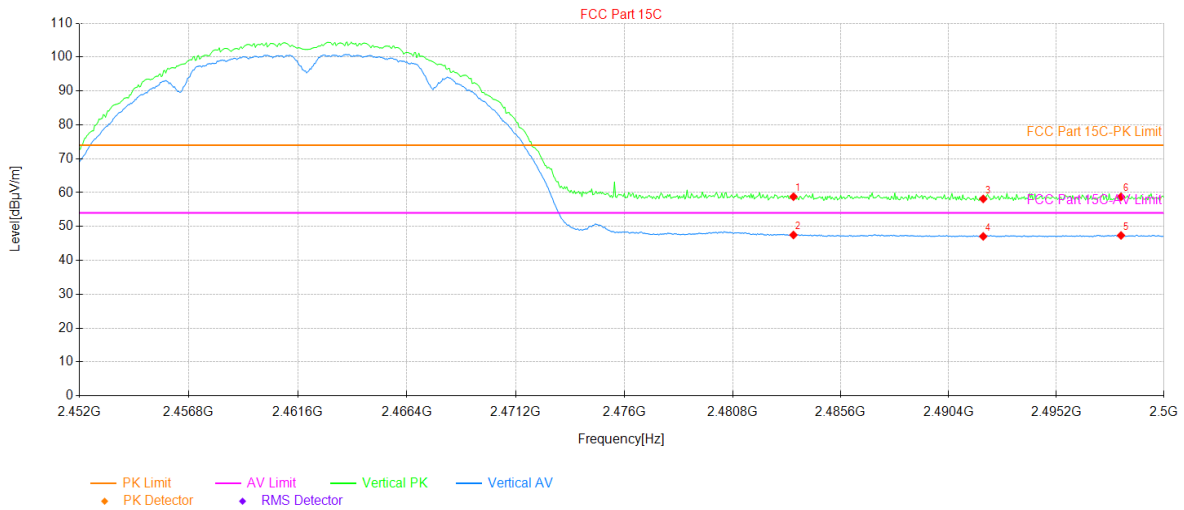


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2340.24	22.26	36.20	58.46	74.00	15.54	311	PK	PASS	Horizontal
2	2340.24	11.13	36.20	47.33	54.00	6.67	121	AV	PASS	Horizontal
3	2363.31	22.26	36.34	58.60	74.00	15.40	311	PK	PASS	Horizontal
4	2363.31	10.96	36.34	47.30	54.00	6.70	174	AV	PASS	Horizontal
5	2390.00	10.81	36.47	47.28	54.00	6.72	140	AV	PASS	Horizontal
6	2390.00	22.33	36.47	58.80	74.00	15.20	23	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

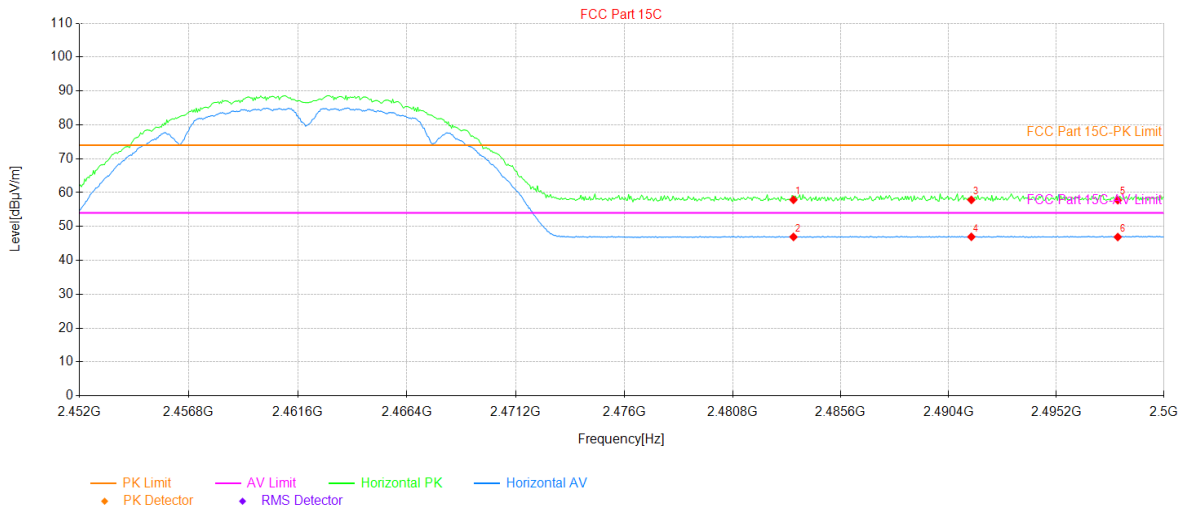


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.68	36.11	58.79	74.00	15.21	326	PK	PASS	Vertical
2	2483.50	11.38	36.11	47.49	54.00	6.51	115	AV	PASS	Vertical
3	2491.94	22.00	36.14	58.14	74.00	15.86	164	PK	PASS	Vertical
4	2491.94	10.93	36.14	47.07	54.00	6.93	86	AV	PASS	Vertical
5	2498.08	11.18	36.17	47.35	54.00	6.65	104	AV	PASS	Vertical
6	2498.08	22.58	36.17	58.75	74.00	15.25	303	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

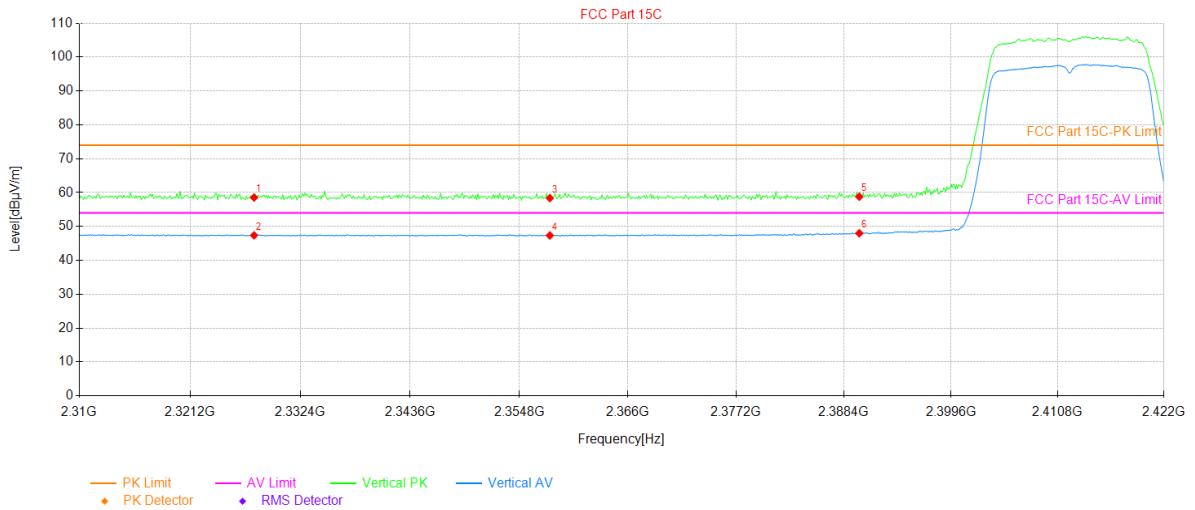


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.77	36.11	57.88	74.00	16.12	327	PK	PASS	Horizontal
2	2483.50	10.81	36.11	46.92	54.00	7.08	214	AV	PASS	Horizontal
3	2491.41	21.71	36.14	57.85	74.00	16.15	346	PK	PASS	Horizontal
4	2491.41	10.81	36.14	46.95	54.00	7.05	86	AV	PASS	Horizontal
5	2497.94	21.58	36.17	57.75	74.00	16.25	42	PK	PASS	Horizontal
6	2497.94	10.72	36.17	46.89	54.00	7.11	244	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

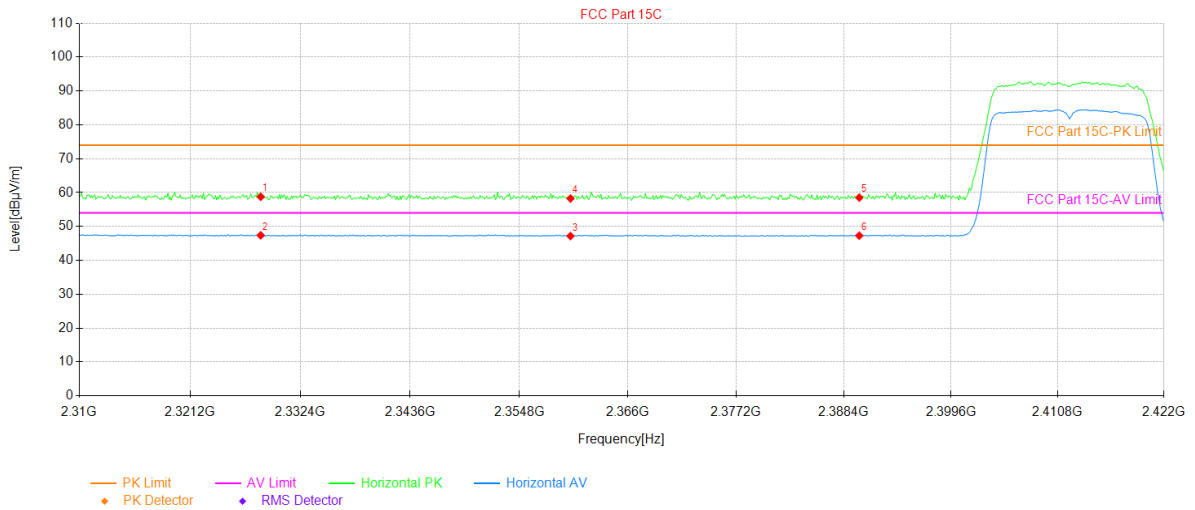


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2327.70	22.42	36.12	58.54	74.00	15.46	175	PK	PASS	Vertical
2	2327.70	11.26	36.12	47.38	54.00	6.62	282	AV	PASS	Vertical
3	2357.94	22.06	36.31	58.37	74.00	15.63	290	PK	PASS	Vertical
4	2357.94	11.05	36.31	47.36	54.00	6.64	114	AV	PASS	Vertical
5	2390.00	22.31	36.47	58.78	74.00	15.22	19	PK	PASS	Vertical
6	2390.00	11.52	36.47	47.99	54.00	6.01	99	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

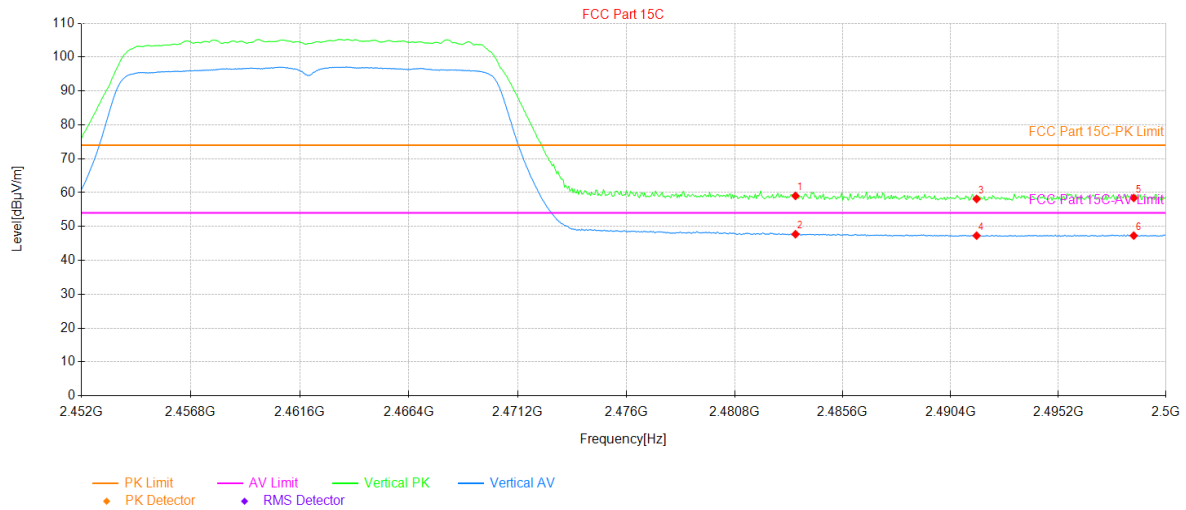


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2328.37	22.65	36.12	58.77	74.00	15.23	248	PK	PASS	Horizontal
2	2328.37	11.28	36.12	47.40	54.00	6.60	248	AV	PASS	Horizontal
3	2360.06	10.85	36.32	47.17	54.00	6.83	358	AV	PASS	Horizontal
4	2360.06	21.94	36.32	58.26	74.00	15.74	356	PK	PASS	Horizontal
5	2390.00	22.06	36.47	58.53	74.00	15.47	252	PK	PASS	Horizontal
6	2390.00	10.83	36.47	47.30	54.00	6.70	248	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

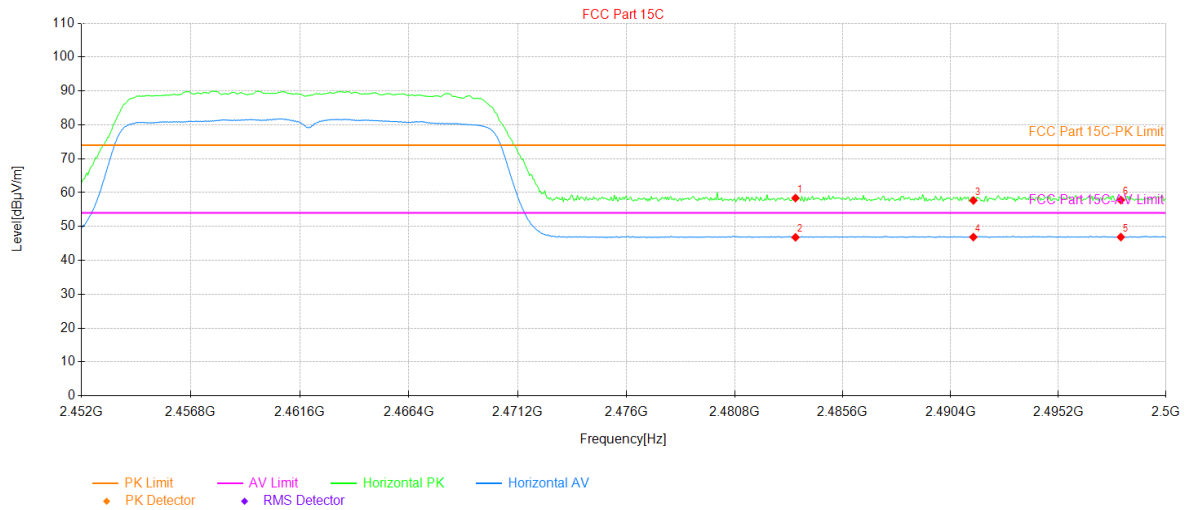


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.92	36.11	59.03	74.00	14.97	128	PK	PASS	Vertical
2	2483.50	11.61	36.11	47.72	54.00	6.28	113	AV	PASS	Vertical
3	2491.55	21.99	36.14	58.13	74.00	15.87	105	PK	PASS	Vertical
4	2491.55	11.15	36.14	47.29	54.00	6.71	165	AV	PASS	Vertical
5	2498.56	22.25	36.17	58.42	74.00	15.58	356	PK	PASS	Vertical
6	2498.56	11.13	36.17	47.30	54.00	6.70	161	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



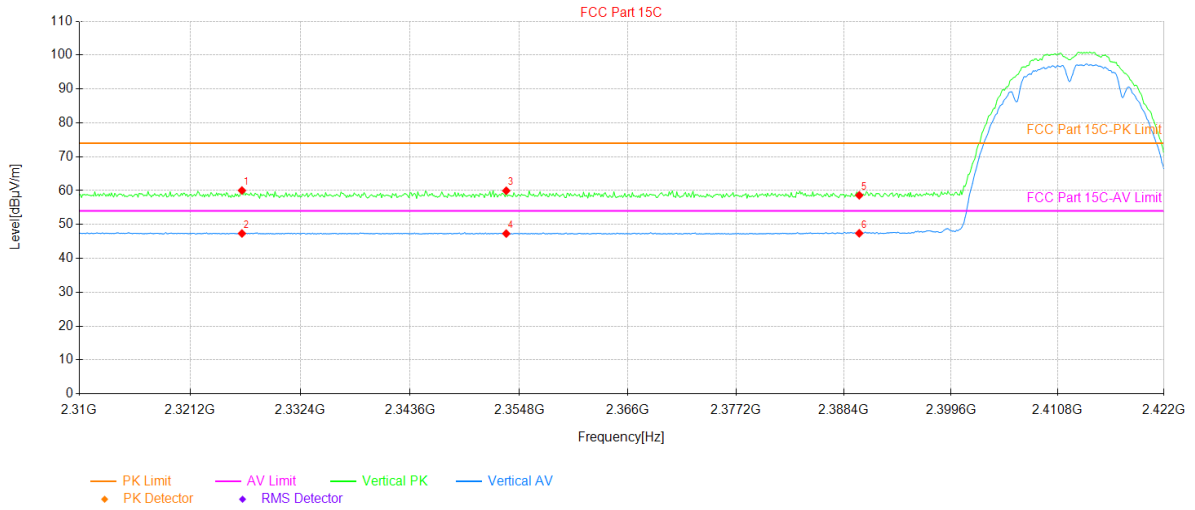
Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.28	36.11	58.39	74.00	15.61	288	PK	PASS	Horizontal
2	2483.50	10.69	36.11	46.80	54.00	7.20	121	AV	PASS	Horizontal
3	2491.41	21.54	36.14	57.68	74.00	16.32	68	PK	PASS	Horizontal
4	2491.41	10.73	36.14	46.87	54.00	7.13	223	AV	PASS	Horizontal
5	2497.98	10.71	36.17	46.88	54.00	7.12	280	AV	PASS	Horizontal
6	2497.98	21.61	36.17	57.78	74.00	16.22	87	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

ANT 2:

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

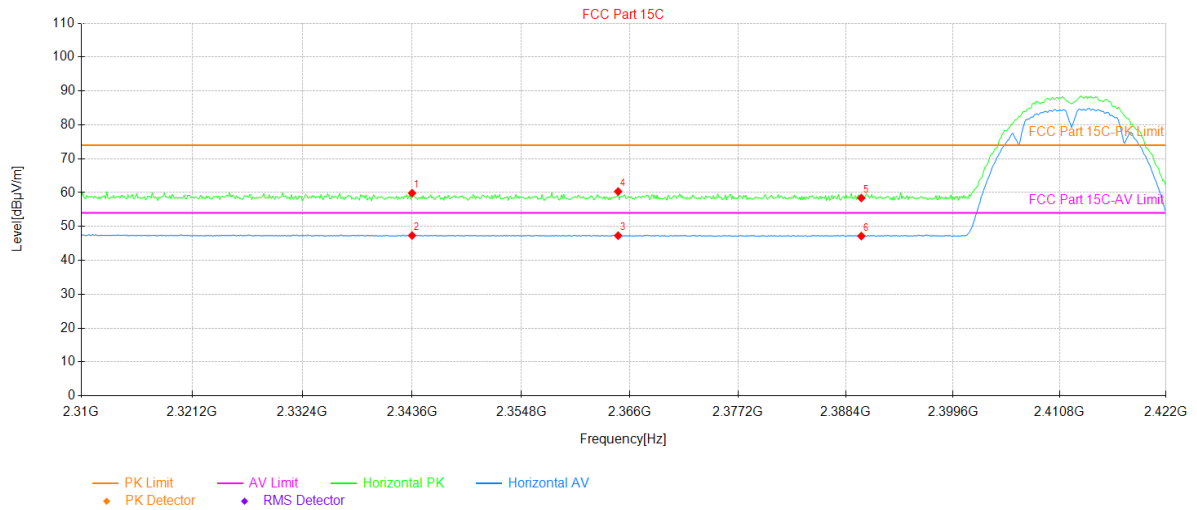


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2326.46	23.91	36.12	60.03	74.00	13.97	344	PK	PASS	Vertical
2	2326.46	11.22	36.12	47.34	54.00	6.66	96	AV	PASS	Vertical
3	2353.46	23.67	36.29	59.96	74.00	14.04	352	PK	PASS	Vertical
4	2353.46	11.03	36.29	47.32	54.00	6.68	200	AV	PASS	Vertical
5	2390.00	22.14	36.47	58.61	74.00	15.39	127	PK	PASS	Vertical
6	2390.00	10.93	36.47	47.40	54.00	6.60	215	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

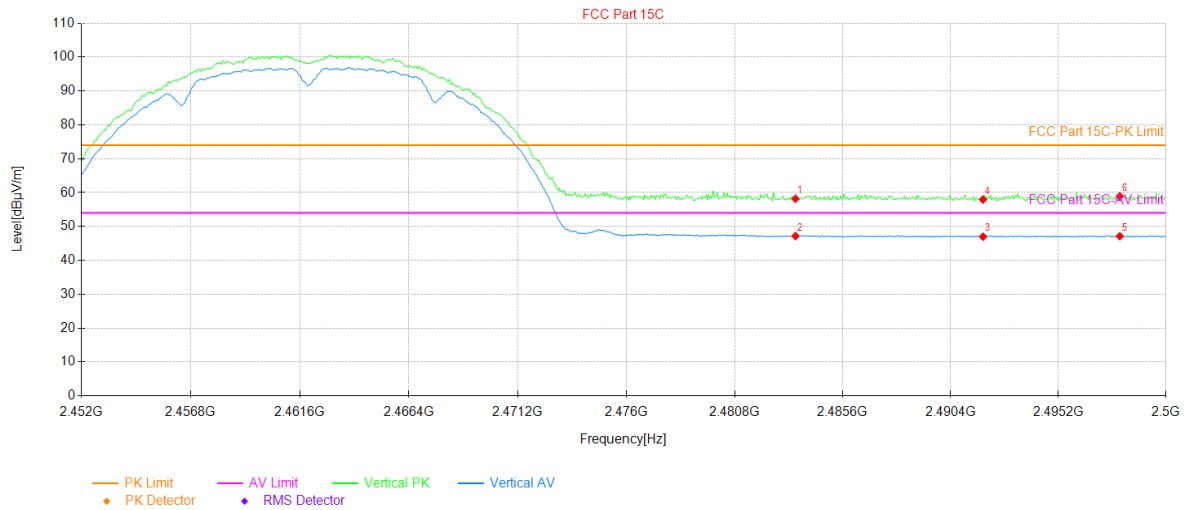


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2343.60	23.62	36.22	59.84	74.00	14.16	301	PK	PASS	Horizontal
2	2343.60	11.12	36.22	47.34	54.00	6.66	125	AV	PASS	Horizontal
3	2364.77	10.95	36.34	47.29	54.00	6.71	95	AV	PASS	Horizontal
4	2364.77	23.97	36.34	60.31	74.00	13.69	316	PK	PASS	Horizontal
5	2390.00	21.95	36.47	58.42	74.00	15.58	350	PK	PASS	Horizontal
6	2390.00	10.70	36.47	47.17	54.00	6.83	95	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

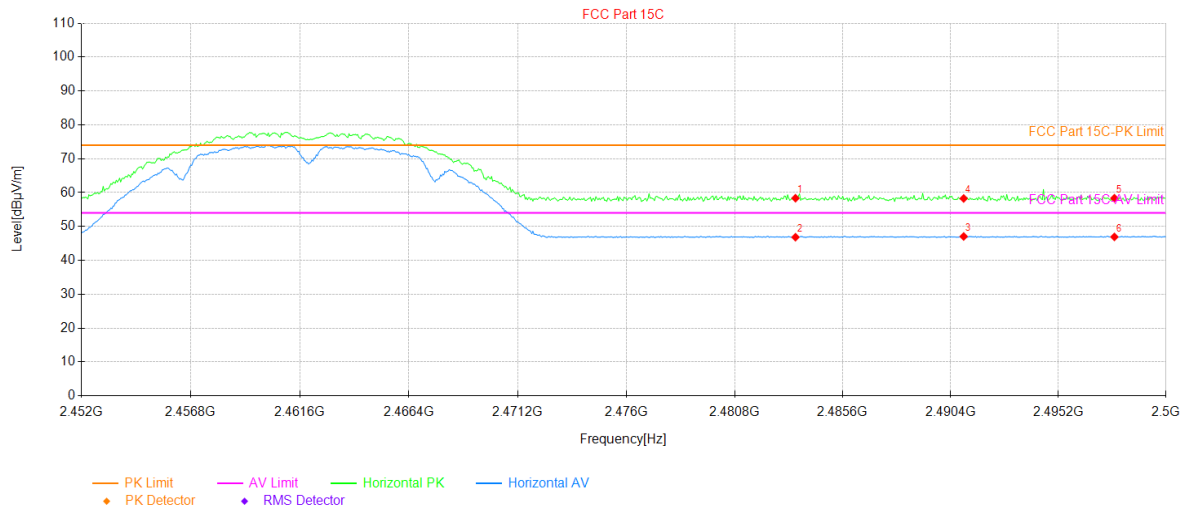


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.07	36.11	58.18	74.00	15.82	195	PK	PASS	Vertical
2	2483.50	11.06	36.11	47.17	54.00	6.83	218	AV	PASS	Vertical
3	2491.84	10.85	36.14	46.99	54.00	7.01	236	AV	PASS	Vertical
4	2491.84	21.80	36.14	57.94	74.00	16.06	296	PK	PASS	Vertical
5	2497.94	10.96	36.17	47.13	54.00	6.87	127	AV	PASS	Vertical
6	2497.94	22.74	36.17	58.91	74.00	15.09	75	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

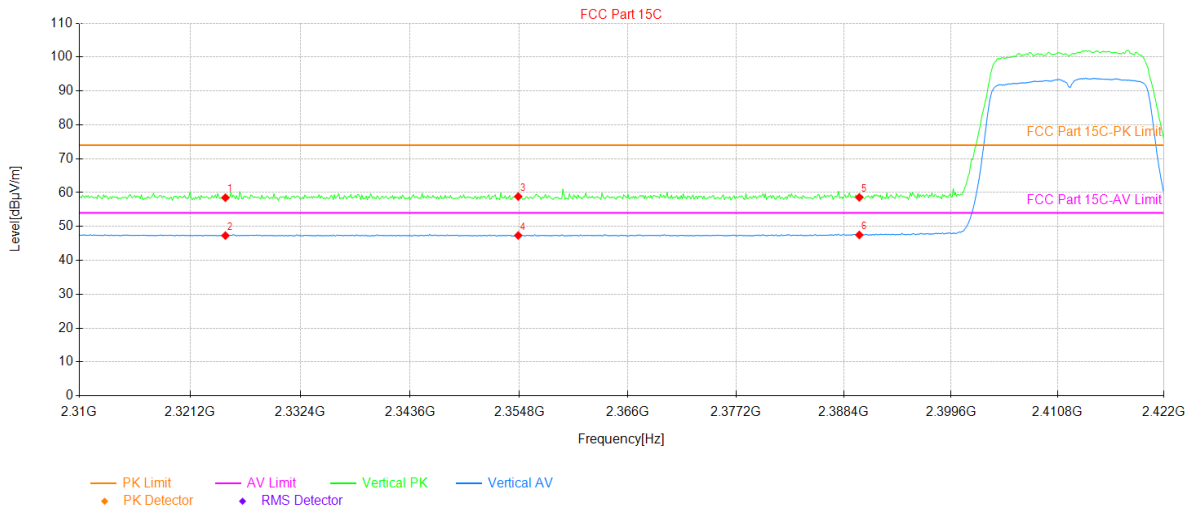


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.24	36.11	58.35	74.00	15.65	225	PK	PASS	Horizontal
2	2483.50	10.73	36.11	46.84	54.00	7.16	225	AV	PASS	Horizontal
3	2490.98	10.91	36.14	47.05	54.00	6.95	102	AV	PASS	Horizontal
4	2490.98	22.13	36.14	58.27	74.00	15.73	176	PK	PASS	Horizontal
5	2497.70	22.17	36.17	58.34	74.00	15.66	76	PK	PASS	Horizontal
6	2497.70	10.76	36.17	46.93	54.00	7.07	259	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

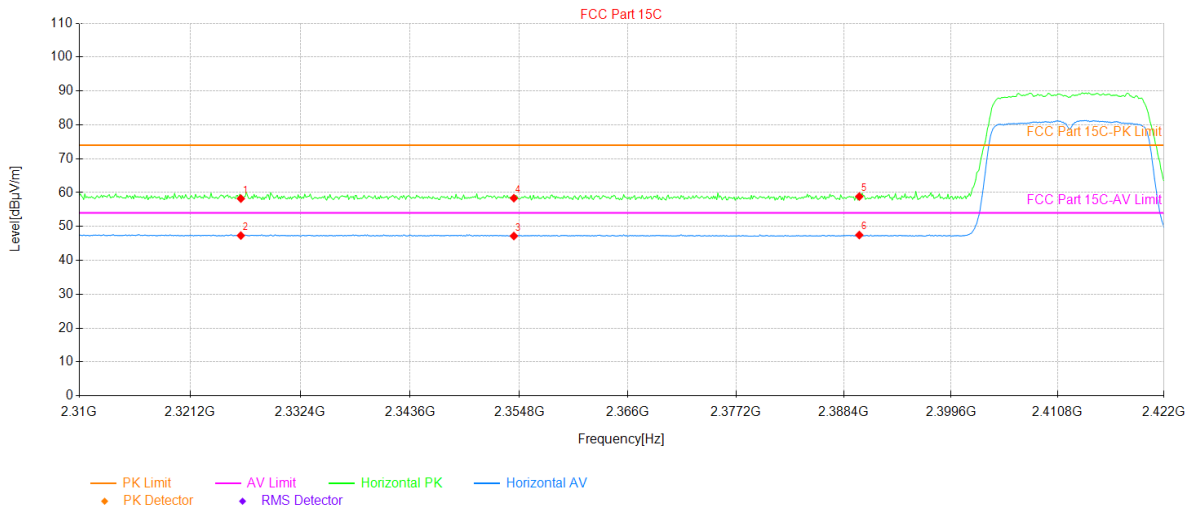


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2324.78	22.37	36.12	58.49	74.00	15.51	234	PK	PASS	Vertical
2	2324.78	11.20	36.12	47.32	54.00	6.68	272	AV	PASS	Vertical
3	2354.69	22.55	36.29	58.84	74.00	15.16	234	PK	PASS	Vertical
4	2354.69	11.06	36.29	47.35	54.00	6.65	165	AV	PASS	Vertical
5	2390.00	22.13	36.47	58.60	74.00	15.40	358	PK	PASS	Vertical
6	2390.00	11.04	36.47	47.51	54.00	6.49	218	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

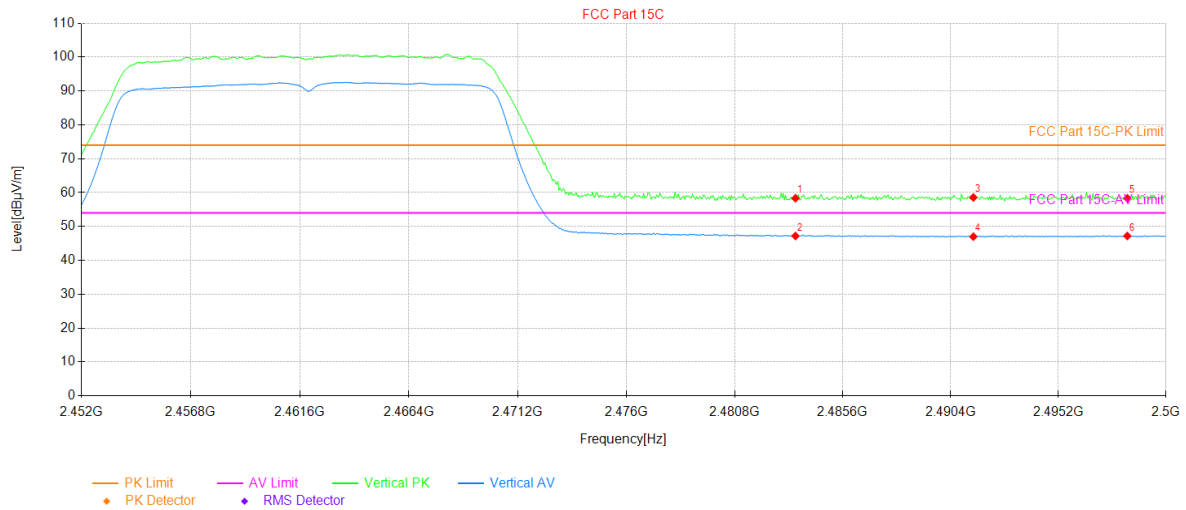


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2326.35	22.10	36.12	58.22	74.00	15.78	80	PK	PASS	Horizontal
2	2326.35	11.19	36.12	47.31	54.00	6.69	205	AV	PASS	Horizontal
3	2354.24	10.89	36.29	47.18	54.00	6.82	360	AV	PASS	Horizontal
4	2354.24	22.06	36.29	58.35	74.00	15.65	91	PK	PASS	Horizontal
5	2390.00	22.38	36.47	58.85	74.00	15.15	46	PK	PASS	Horizontal
6	2390.00	11.01	36.47	47.48	54.00	6.52	208	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

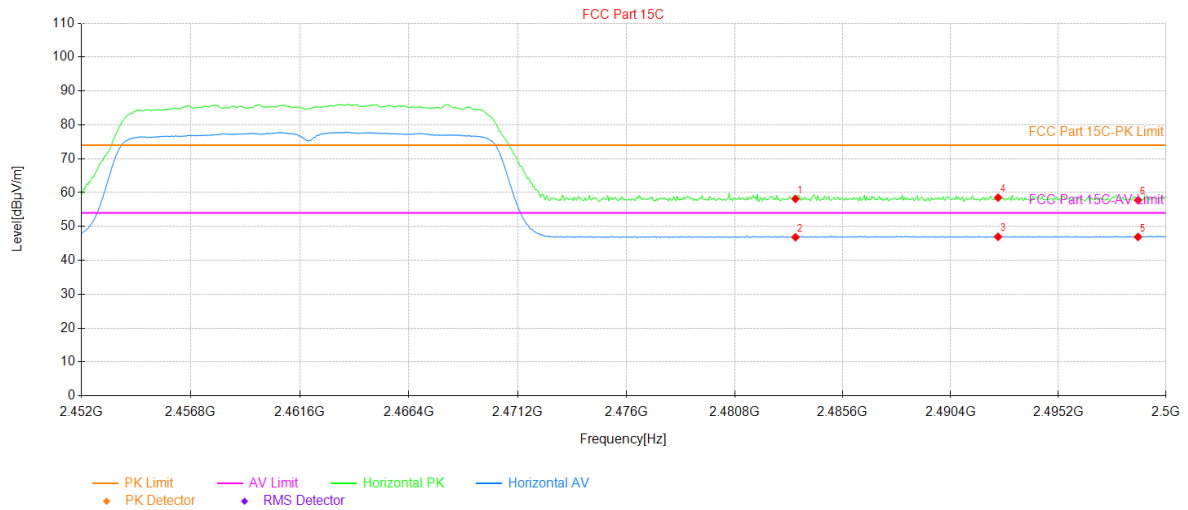


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.22	36.11	58.33	74.00	15.67	205	PK	PASS	Vertical
2	2483.50	11.08	36.11	47.19	54.00	6.81	236	AV	PASS	Vertical
3	2491.41	22.43	36.14	58.57	74.00	15.43	119	PK	PASS	Vertical
4	2491.41	10.85	36.14	46.99	54.00	7.01	201	AV	PASS	Vertical
5	2498.27	22.15	36.17	58.32	74.00	15.68	296	PK	PASS	Vertical
6	2498.27	11.03	36.17	47.20	54.00	6.80	209	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

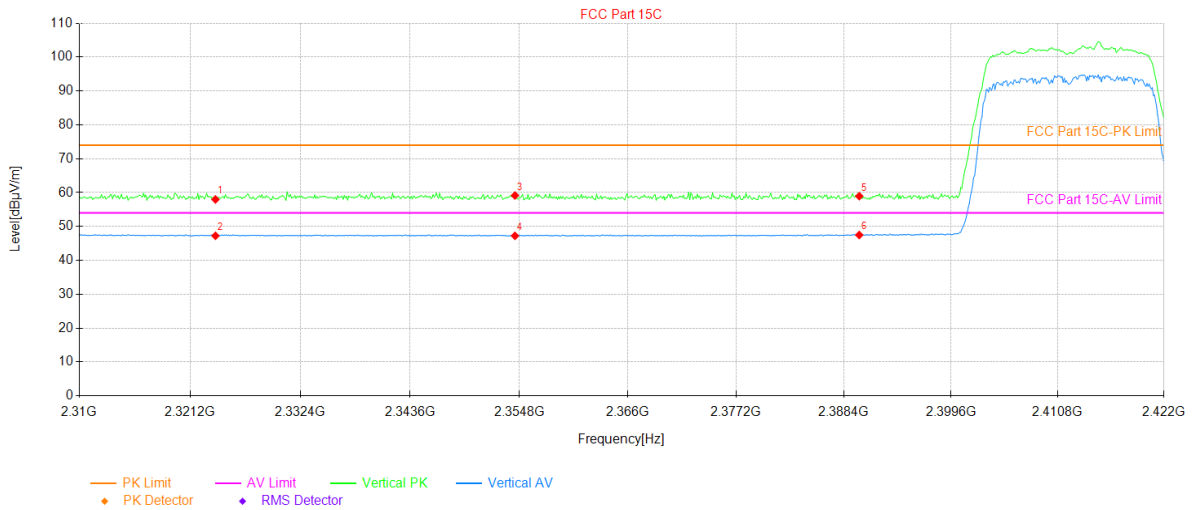


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.04	36.11	58.15	74.00	15.85	223	PK	PASS	Horizontal
2	2483.50	10.72	36.11	46.83	54.00	7.17	253	AV	PASS	Horizontal
3	2492.51	10.82	36.15	46.97	54.00	7.03	136	AV	PASS	Horizontal
4	2492.51	22.37	36.15	58.52	74.00	15.48	132	PK	PASS	Horizontal
5	2498.75	10.75	36.17	46.92	54.00	7.08	290	AV	PASS	Horizontal
6	2498.75	21.60	36.17	57.77	74.00	16.23	249	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

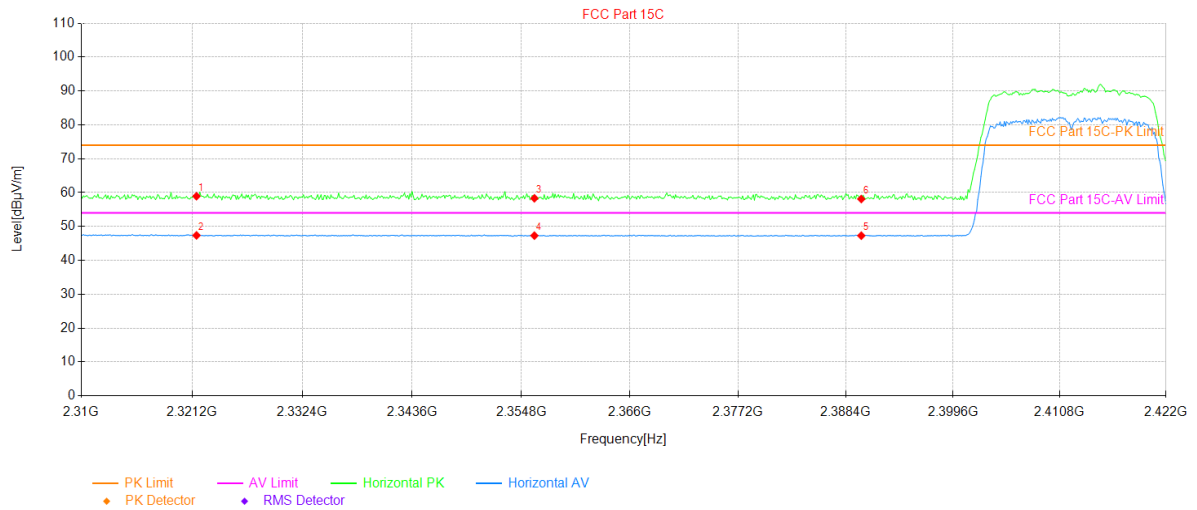


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2323.78	21.87	36.12	57.99	74.00	16.01	359	PK	PASS	Vertical
2	2323.78	11.13	36.12	47.25	54.00	6.75	87	AV	PASS	Vertical
3	2354.35	22.85	36.29	59.14	74.00	14.86	5	PK	PASS	Vertical
4	2354.35	10.95	36.29	47.24	54.00	6.76	309	AV	PASS	Vertical
5	2390.00	22.48	36.47	58.95	74.00	15.05	357	PK	PASS	Vertical
6	2390.00	11.02	36.47	47.49	54.00	6.51	110	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

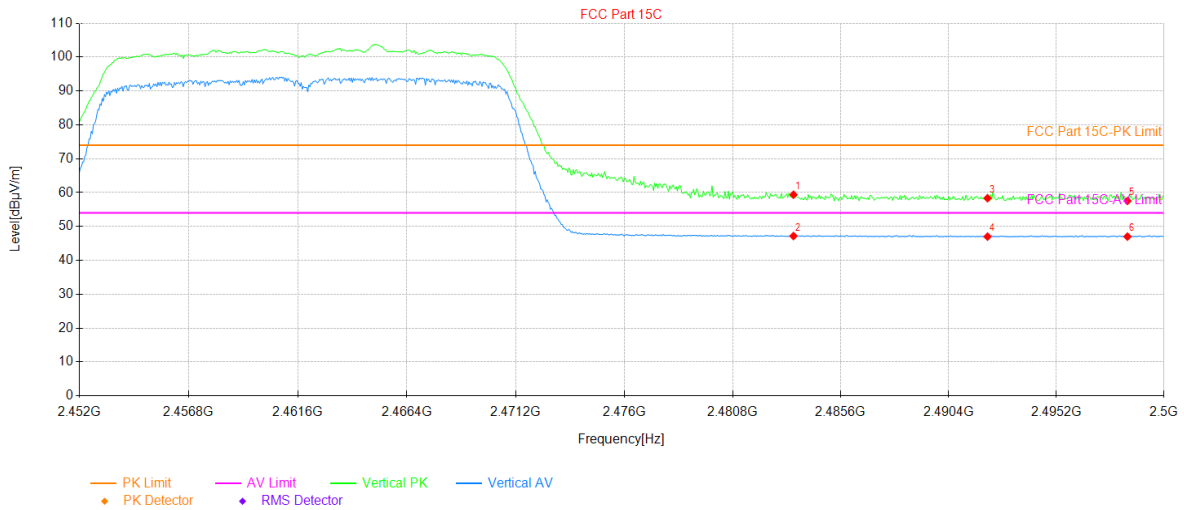


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.65	22.82	36.11	58.93	74.00	15.07	104	PK	PASS	Horizontal
2	2321.65	11.26	36.11	47.37	54.00	6.63	307	AV	PASS	Horizontal
3	2356.14	22.02	36.30	58.32	74.00	15.68	36	PK	PASS	Horizontal
4	2356.14	11.00	36.30	47.30	54.00	6.70	3	AV	PASS	Horizontal
5	2390.00	10.82	36.47	47.29	54.00	6.71	145	AV	PASS	Horizontal
6	2390.00	21.63	36.47	58.10	74.00	15.90	304	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

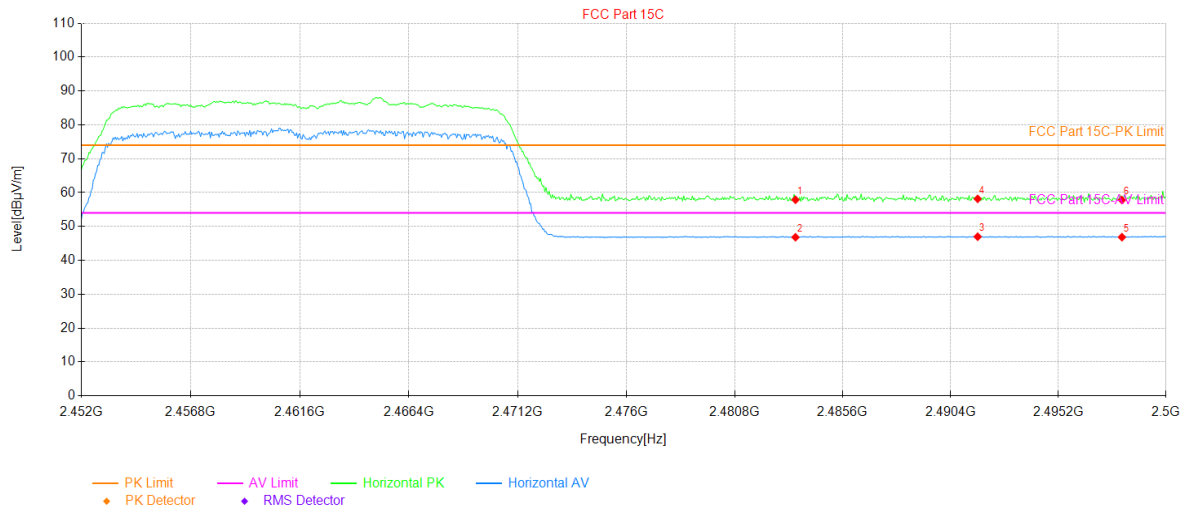


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	23.26	36.11	59.37	74.00	14.63	184	PK	PASS	Vertical
2	2483.50	11.07	36.11	47.18	54.00	6.82	170	AV	PASS	Vertical
3	2492.13	22.21	36.14	58.35	74.00	15.65	267	PK	PASS	Vertical
4	2492.13	10.87	36.14	47.01	54.00	6.99	106	AV	PASS	Vertical
5	2498.37	21.38	36.17	57.55	74.00	16.45	166	PK	PASS	Vertical
6	2498.37	10.84	36.17	47.01	54.00	6.99	184	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

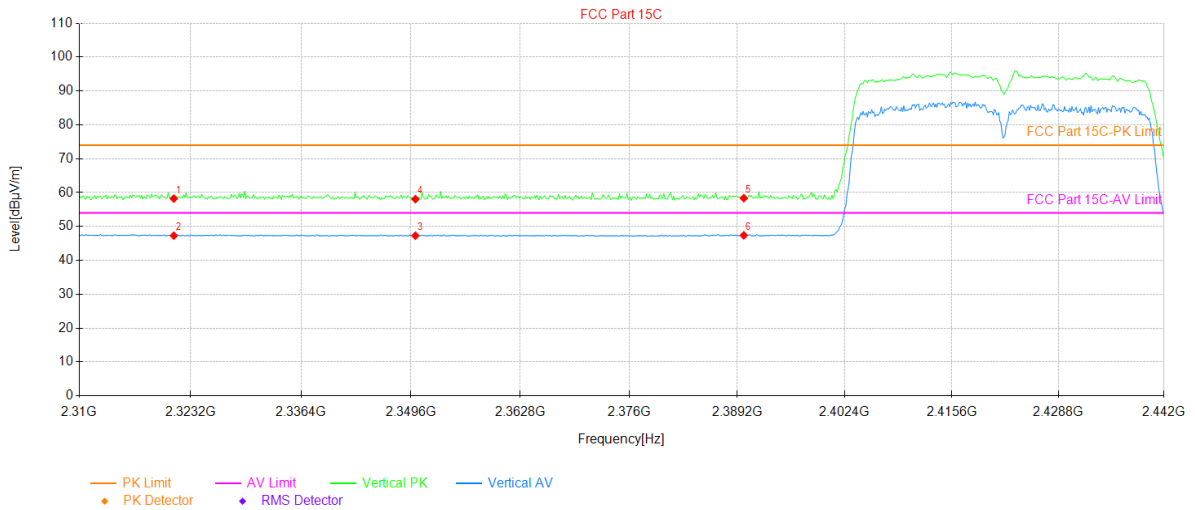


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.78	36.11	57.89	74.00	16.11	106	PK	PASS	Horizontal
2	2483.50	10.71	36.11	46.82	54.00	7.18	216	AV	PASS	Horizontal
3	2491.60	10.85	36.14	46.99	54.00	7.01	94	AV	PASS	Horizontal
4	2491.60	22.02	36.14	58.16	74.00	15.84	53	PK	PASS	Horizontal
5	2498.03	10.68	36.17	46.85	54.00	7.15	234	AV	PASS	Horizontal
6	2498.03	21.64	36.17	57.81	74.00	16.19	8	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

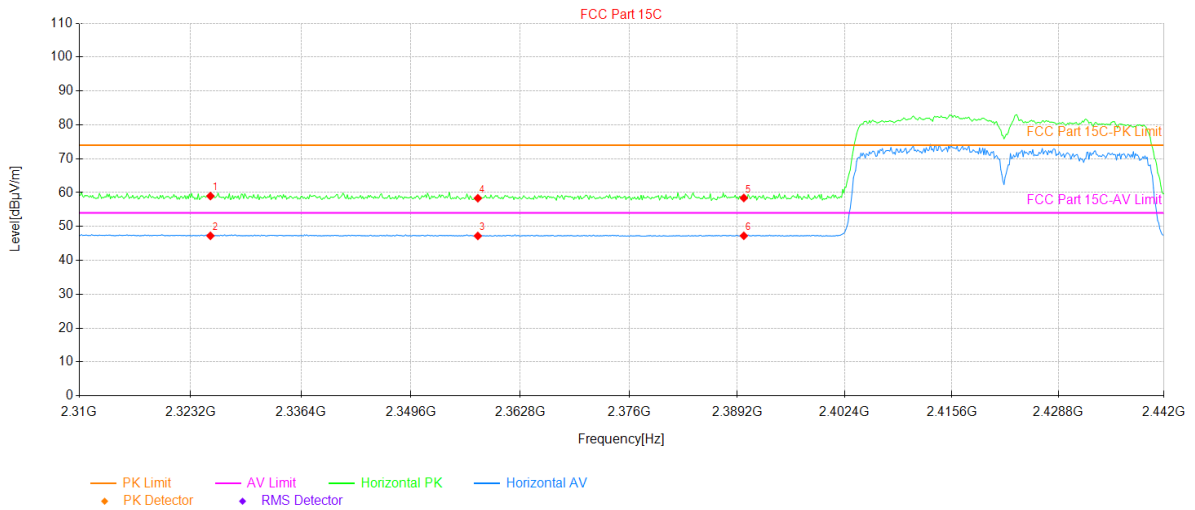


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.22	22.13	36.10	58.23	74.00	15.77	360	PK	PASS	Vertical
2	2321.22	11.18	36.10	47.28	54.00	6.72	233	AV	PASS	Vertical
3	2350.13	11.02	36.27	47.29	54.00	6.71	203	AV	PASS	Vertical
4	2350.13	21.80	36.27	58.07	74.00	15.93	294	PK	PASS	Vertical
5	2390.00	21.88	36.47	58.35	74.00	15.65	218	PK	PASS	Vertical
6	2390.00	10.91	36.47	47.38	54.00	6.62	353	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

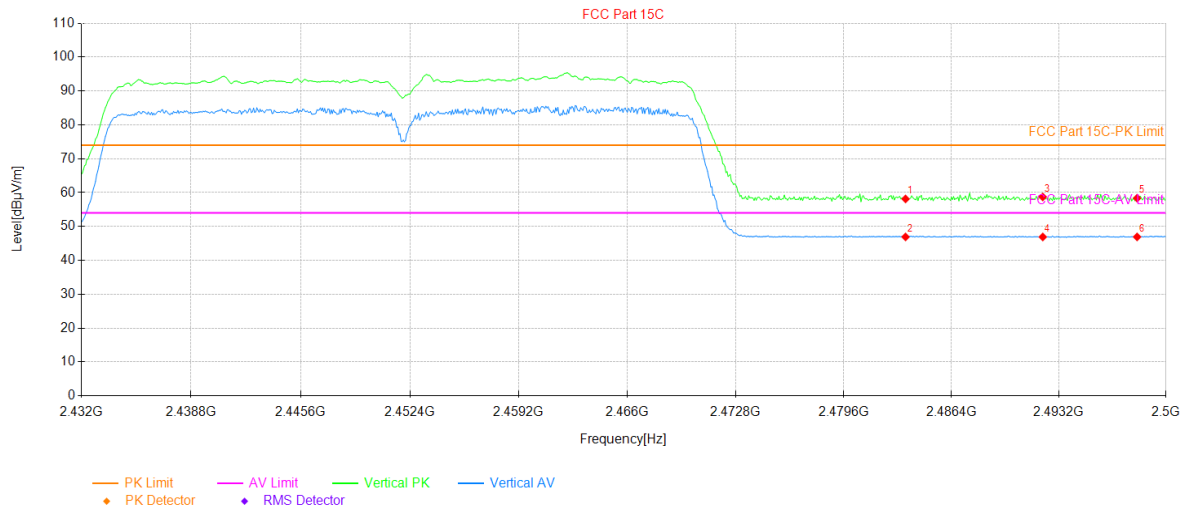


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2325.58	22.86	36.12	58.98	74.00	15.02	160	PK	PASS	Horizontal
2	2325.58	11.13	36.12	47.25	54.00	6.75	134	AV	PASS	Horizontal
3	2357.65	10.90	36.31	47.21	54.00	6.79	55	AV	PASS	Horizontal
4	2357.65	22.03	36.31	58.34	74.00	15.66	130	PK	PASS	Horizontal
5	2390.00	21.94	36.47	58.41	74.00	15.59	266	PK	PASS	Horizontal
6	2390.00	10.77	36.47	47.24	54.00	6.76	247	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

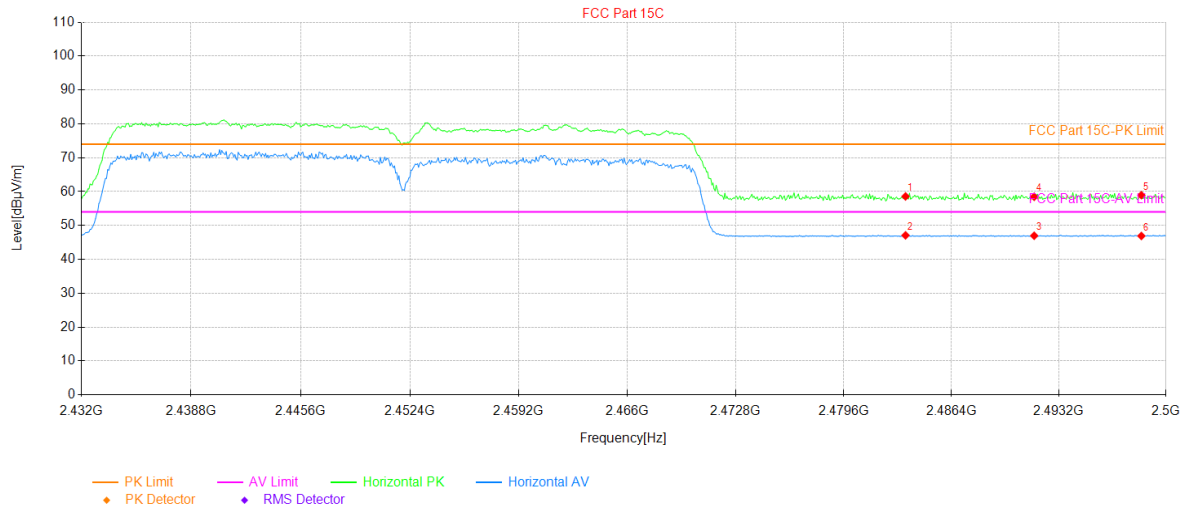


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.02	36.11	58.13	74.00	15.87	260	PK	PASS	Vertical
2	2483.50	10.81	36.11	46.92	54.00	7.08	189	AV	PASS	Vertical
3	2492.18	22.57	36.15	58.72	74.00	15.28	113	PK	PASS	Vertical
4	2492.18	10.76	36.15	46.91	54.00	7.09	230	AV	PASS	Vertical
5	2498.16	22.18	36.17	58.35	74.00	15.65	257	PK	PASS	Vertical
6	2498.16	10.76	36.17	46.93	54.00	7.07	257	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

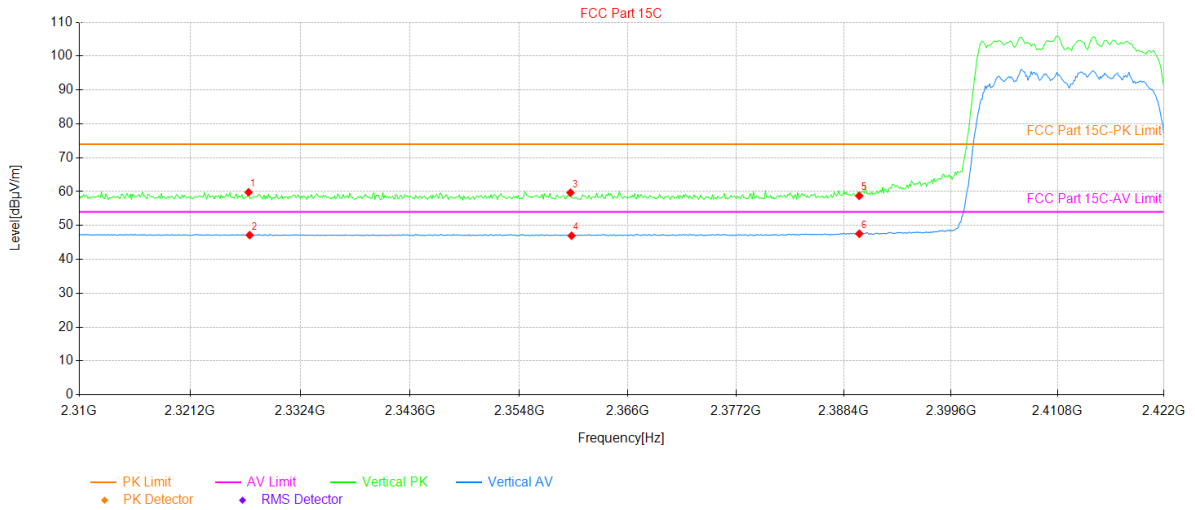


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.47	36.11	58.58	74.00	15.42	228	PK	PASS	Horizontal
2	2483.50	10.97	36.11	47.08	54.00	6.92	348	AV	PASS	Horizontal
3	2491.64	10.83	36.14	46.97	54.00	7.03	95	AV	PASS	Horizontal
4	2491.64	22.34	36.14	58.48	74.00	15.52	186	PK	PASS	Horizontal
5	2498.44	22.78	36.17	58.95	74.00	15.05	160	PK	PASS	Horizontal
6	2498.44	10.74	36.17	46.91	54.00	7.09	126	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11ax-HE20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

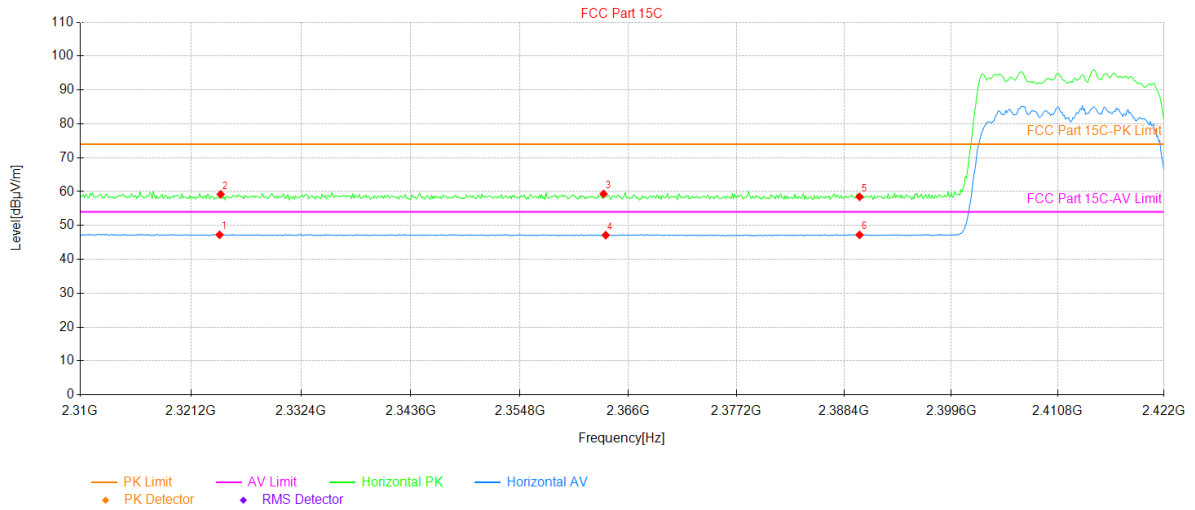


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2327.14	23.67	36.12	59.79	74.00	14.21	161	PK	PASS	Vertical
2	2327.25	11.04	36.12	47.16	54.00	6.84	27	AV	PASS	Vertical
3	2360.06	23.35	36.32	59.67	74.00	14.33	81	PK	PASS	Vertical
4	2360.18	10.66	36.32	46.98	54.00	7.02	50	AV	PASS	Vertical
5	2390.00	22.27	36.47	58.74	74.00	15.26	73	PK	PASS	Vertical
6	2390.00	11.10	36.47	47.57	54.00	6.43	62	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11 ax-HE 20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

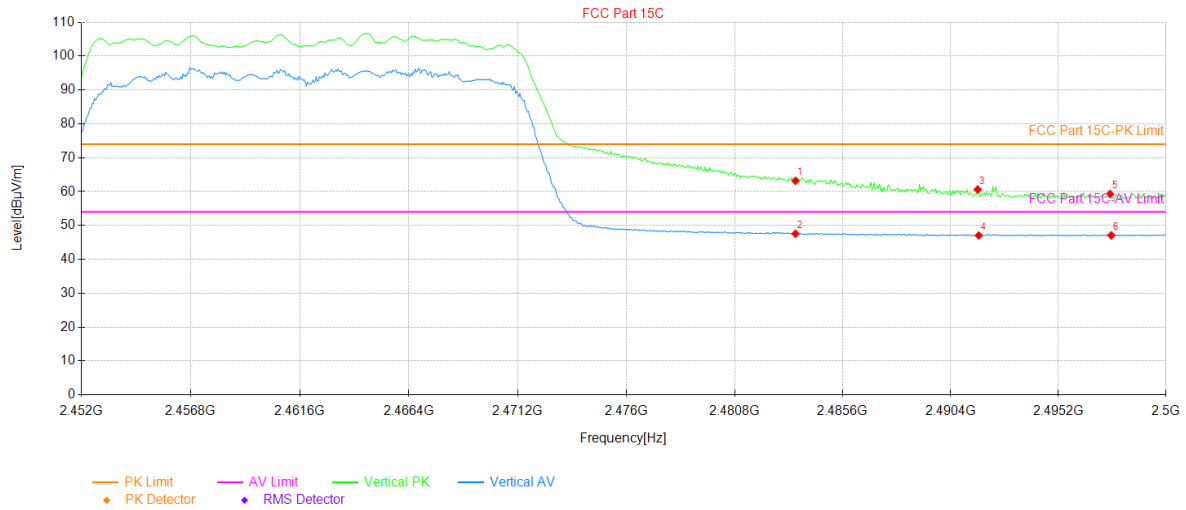


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2324.11	11.12	36.12	47.24	54.00	6.76	12	AV	PASS	Horizontal
2	2324.22	23.09	36.12	59.21	74.00	14.79	70	PK	PASS	Horizontal
3	2363.42	22.97	36.34	59.31	74.00	14.69	284	PK	PASS	Horizontal
4	2363.65	10.80	36.34	47.14	54.00	6.86	124	AV	PASS	Horizontal
5	2390.00	22.00	36.47	58.47	74.00	15.53	101	PK	PASS	Horizontal
6	2390.00	10.75	36.47	47.22	54.00	6.78	299	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11ax-HE20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

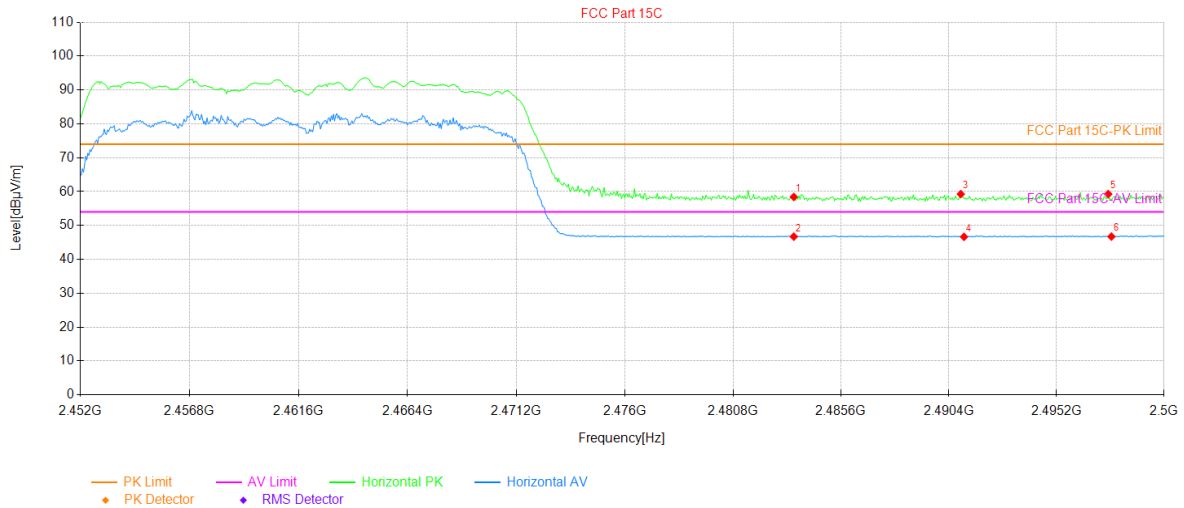


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	27.06	36.11	63.17	74.00	10.83	187	PK	PASS	Vertical
2	2483.50	11.43	36.11	47.54	54.00	6.46	118	AV	PASS	Vertical
3	2491.60	24.49	36.14	60.63	74.00	13.37	27	PK	PASS	Vertical
4	2491.65	10.91	36.14	47.05	54.00	6.95	141	AV	PASS	Vertical
5	2497.50	23.11	36.17	59.28	74.00	14.72	65	PK	PASS	Vertical
6	2497.55	10.91	36.17	47.08	54.00	6.92	24	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11 ax-HE 20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

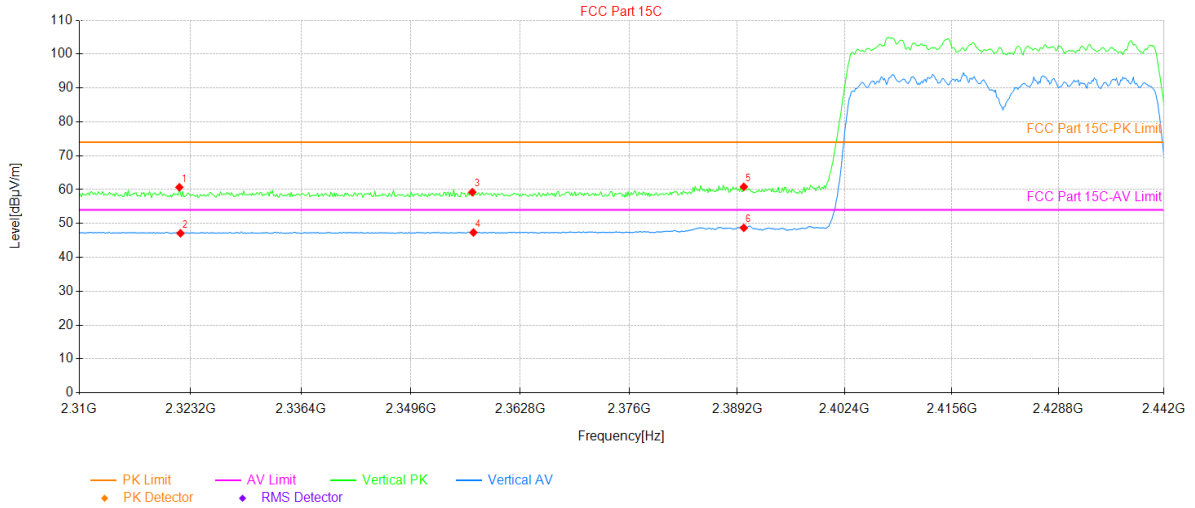


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.31	36.11	58.42	74.00	15.58	230	PK	PASS	Horizontal
2	2483.50	10.59	36.11	46.70	54.00	7.30	243	AV	PASS	Horizontal
3	2490.93	23.12	36.14	59.26	74.00	14.74	155	PK	PASS	Horizontal
4	2491.07	10.50	36.14	46.64	54.00	7.36	140	AV	PASS	Horizontal
5	2497.50	23.09	36.17	59.26	74.00	14.74	162	PK	PASS	Horizontal
6	2497.65	10.56	36.17	46.73	54.00	7.27	70	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11ax-HE40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

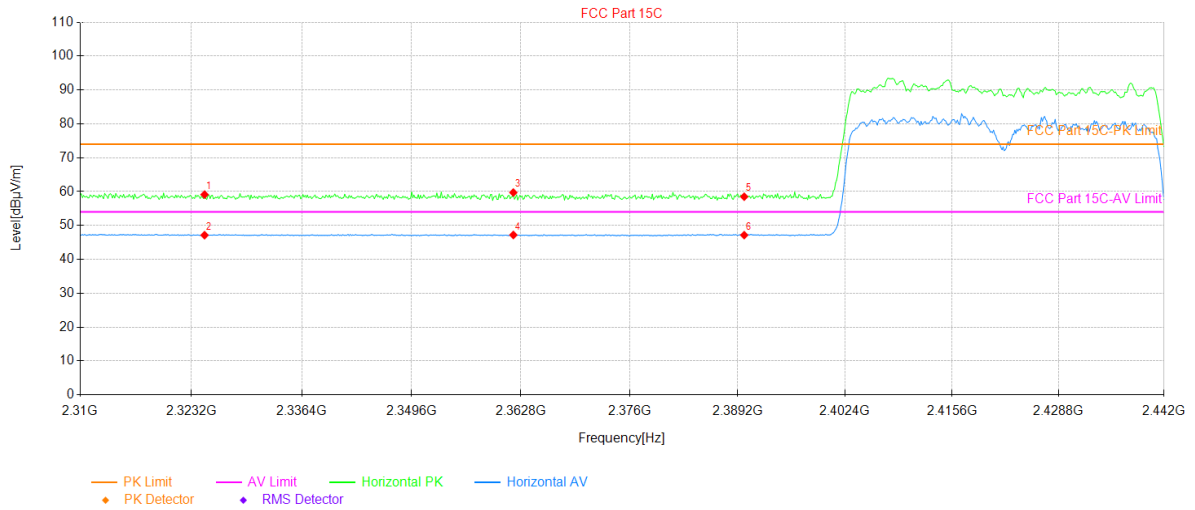


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2321.88	24.57	36.11	60.68	74.00	13.32	199	PK	PASS	Vertical
2	2322.01	11.00	36.11	47.11	54.00	6.89	42	AV	PASS	Vertical
3	2356.99	22.95	36.30	59.25	74.00	14.75	42	PK	PASS	Vertical
4	2357.12	11.04	36.30	47.34	54.00	6.66	176	AV	PASS	Vertical
5	2390.00	24.35	36.47	60.82	74.00	13.18	82	PK	PASS	Vertical
6	2390.00	12.25	36.47	48.72	54.00	5.28	112	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin	Test mode:	802.11 ax-HE 40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

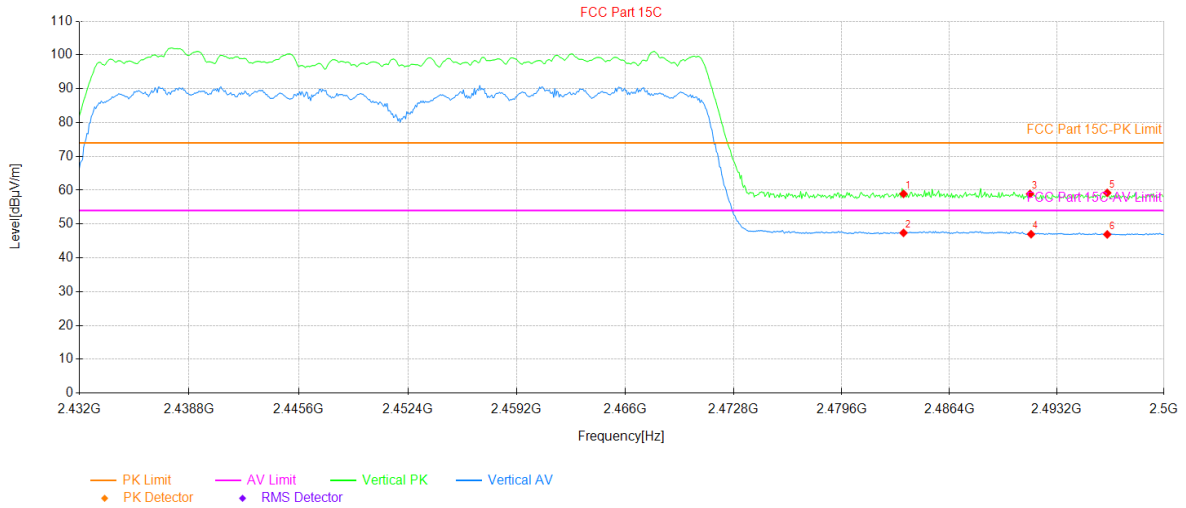


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2324.78	23.00	36.12	59.12	74.00	14.88	21	PK	PASS	Horizontal
2	2324.78	11.02	36.12	47.14	54.00	6.86	44	AV	PASS	Horizontal
3	2361.88	23.40	36.33	59.73	74.00	14.27	161	PK	PASS	Horizontal
4	2361.88	10.87	36.33	47.20	54.00	6.80	101	AV	PASS	Horizontal
5	2390.00	22.03	36.47	58.50	74.00	15.50	104	PK	PASS	Horizontal
6	2390.00	10.68	36.47	47.15	54.00	6.85	116	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11ax-HE40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

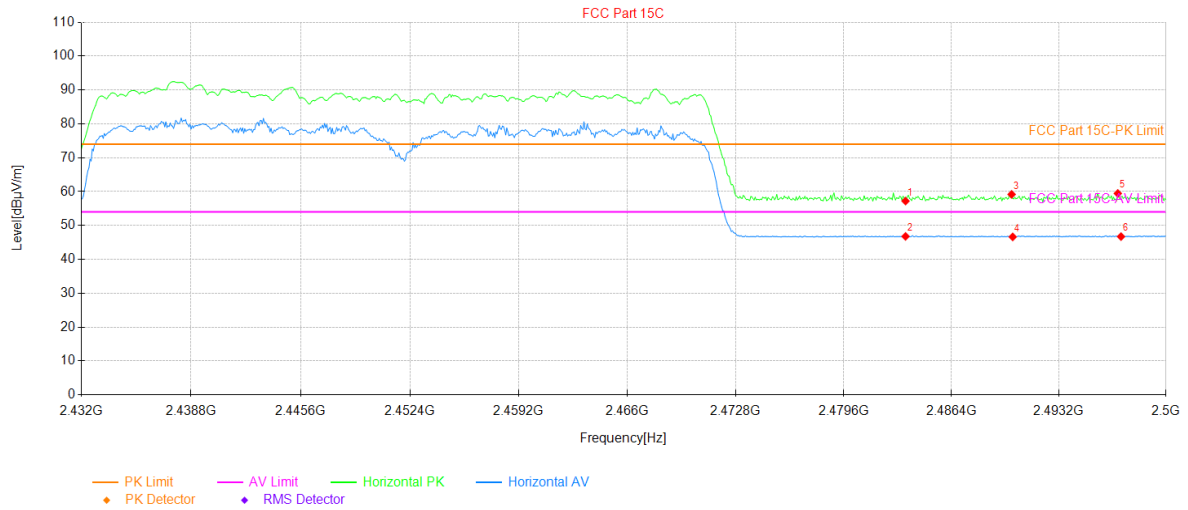


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.81	36.11	58.92	74.00	15.08	4	PK	PASS	Vertical
2	2483.50	11.28	36.11	47.39	54.00	6.61	19	AV	PASS	Vertical
3	2491.50	22.78	36.14	58.92	74.00	15.08	333	PK	PASS	Vertical
4	2491.57	10.85	36.14	46.99	54.00	7.01	8	AV	PASS	Vertical
5	2496.40	23.05	36.16	59.21	74.00	14.79	53	PK	PASS	Vertical
6	2496.40	10.77	36.16	46.93	54.00	7.07	23	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Robin Gu	Test mode:	802.11ax-HE40 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.10	36.11	57.21	74.00	16.79	28	PK	PASS	Horizontal
2	2483.50	10.67	36.11	46.78	54.00	7.22	200	AV	PASS	Horizontal
3	2490.21	23.04	36.14	59.18	74.00	14.82	175	PK	PASS	Horizontal
4	2490.28	10.50	36.14	46.64	54.00	7.36	208	AV	PASS	Horizontal
5	2496.94	23.29	36.17	59.46	74.00	14.54	329	PK	PASS	Horizontal
6	2497.14	10.55	36.17	46.72	54.00	7.28	204	AV	PASS	Horizontal

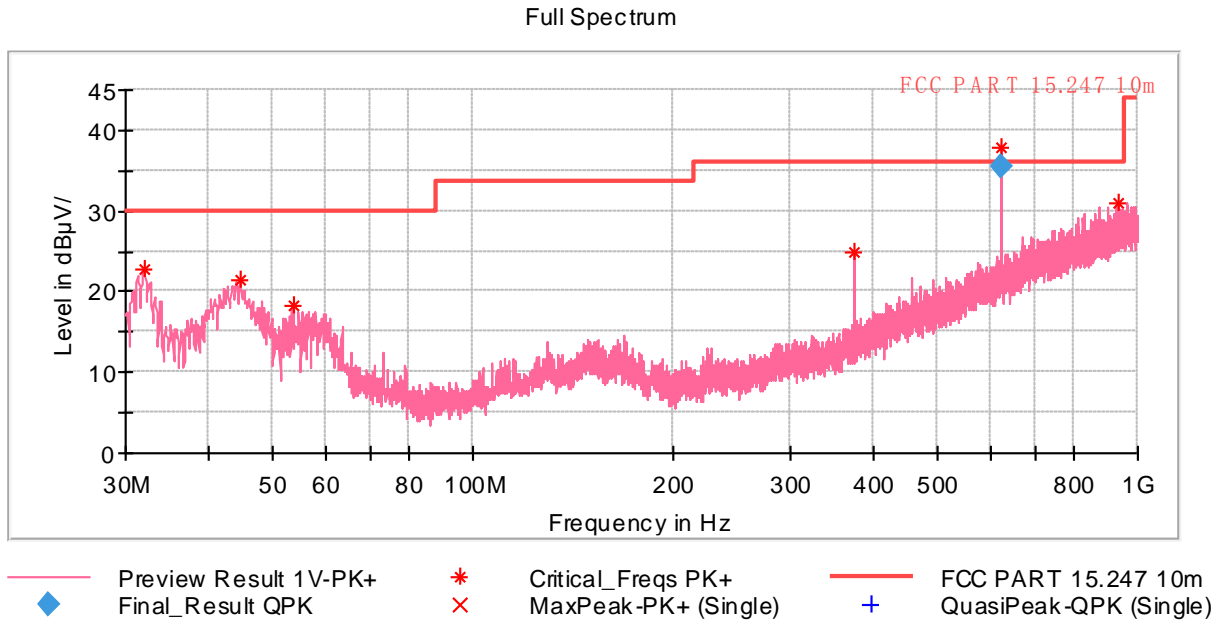
Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor)

5.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Asher Zhang	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.988500	22.86	30.00	7.14	300.0	V	108.0	-17.3
44.744000	21.54	30.00	8.46	300.0	V	166.0	-16.5
53.571000	18.29	30.00	11.71	300.0	V	108.0	-16.5
374.980500	24.79	36.00	11.21	300.0	V	297.0	-13.0
624.998000	37.94	36.00	-1.94	300.0	V	100.0	-6.0
935.640500	30.95	36.00	5.05	300.0	V	260.0	-0.5

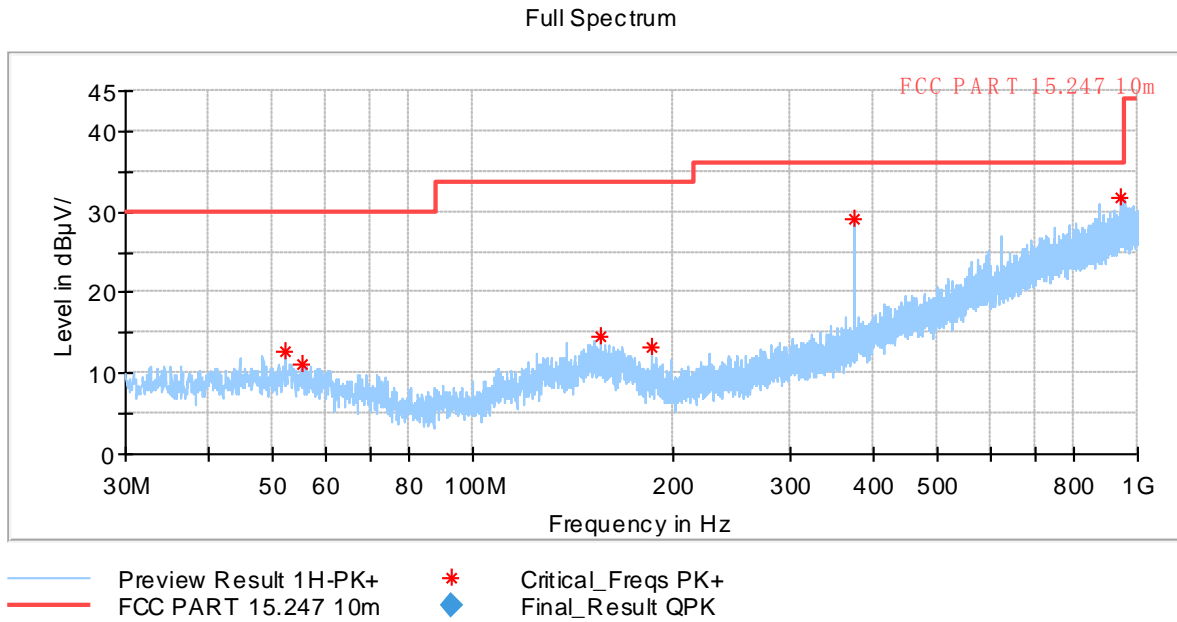
Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
624.998000	35.57	36.00	0.43	300.0	V	100.0	-6.0

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss - Preamplifier Factor)

Product Name:	Industrial AI Edge Computing Gateway	Product Model:	DSGW-380
Test By:	Asher Zhang	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.261500	12.80	30.00	17.20	300.0	H	238.0	-16.5
55.220000	11.06	30.00	18.94	300.0	H	81.0	-16.5
155.178500	14.66	33.50	18.84	300.0	H	259.0	-15.2
186.218500	13.21	33.50	20.29	300.0	H	15.0	-17.8
374.980500	29.10	36.00	6.90	300.0	H	21.0	-13.0
943.982500	31.64	36.00	4.36	300.0	H	282.0	-0.3

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss - Preamplifier Factor)

Above 1GHz:

ANT1:

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	60.40	-7.92	52.48	74.00	21.52	Vertical
4824.00	60.36	-7.92	52.44	74.00	21.56	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.79	-7.92	46.87	54.00	7.13	Vertical
4824.00	54.14	-7.92	46.22	54.00	7.78	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	60.15	-7.55	52.60	74.00	21.40	Vertical
4874.00	59.40	-7.55	51.85	74.00	22.15	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.99	-7.55	46.44	54.00	7.56	Vertical
4874.00	53.33	-7.55	45.78	54.00	8.22	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.20	-7.21	51.99	74.00	22.01	Vertical
4924.00	59.48	-7.21	52.27	74.00	21.73	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.09	-7.21	46.88	54.00	7.12	Vertical
4924.00	53.67	-7.21	46.46	54.00	7.54	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

ANT1:

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	59.76	-7.92	51.84	74.00	22.16	Vertical
4824.00	60.03	-7.92	52.11	74.00	21.89	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.35	-7.92	46.43	54.00	7.57	Vertical
4824.00	53.94	-7.92	46.02	54.00	7.98	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	59.44	-7.55	51.89	74.00	22.11	Vertical
4874.00	60.35	-7.55	52.80	74.00	21.20	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.49	-7.55	46.94	54.00	7.06	Vertical
4874.00	53.81	-7.55	46.26	54.00	7.74	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.94	-7.21	52.73	74.00	21.27	Vertical
4924.00	60.02	-7.21	52.81	74.00	21.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.19	-7.21	46.98	54.00	7.02	Vertical
4924.00	53.38	-7.21	46.17	54.00	7.83	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

ANT2:

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.18	-7.92	47.26	74.00	26.74	Vertical
4824.00	50.36	-7.92	42.44	74.00	31.56	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	48.26	-7.92	40.34	54.00	13.66	Vertical
4824.00	41.92	-7.92	34.00	54.00	20.00	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.43	-7.55	46.88	74.00	27.12	Vertical
4874.00	49.87	-7.55	42.32	74.00	31.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	47.78	-7.55	40.23	54.00	13.77	Vertical
4874.00	40.84	-7.55	33.29	54.00	20.71	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.19	-7.21	46.98	74.00	27.02	Vertical
4924.00	50.25	-7.21	43.04	74.00	30.96	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	47.35	-7.21	40.14	54.00	13.86	Vertical
4924.00	41.45	-7.21	34.24	54.00	19.76	Horizontal
Remark:						
3. <i>Level = Reading + Factor.</i>						
4. <i>Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

ANT2:

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.45	-7.92	46.53	74.00	27.47	Vertical
4824.00	49.19	-7.92	41.27	74.00	32.73	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	47.70	-7.92	39.78	54.00	14.22	Vertical
4824.00	41.38	-7.92	33.46	54.00	20.54	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.17	-7.55	47.62	74.00	26.38	Vertical
4874.00	49.60	-7.55	42.05	74.00	31.95	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	47.51	-7.55	39.96	54.00	14.04	Vertical
4874.00	41.64	-7.55	34.09	54.00	19.91	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	53.97	-7.21	46.76	74.00	27.24	Vertical
4924.00	49.65	-7.21	42.44	74.00	31.56	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	47.96	-7.21	40.75	54.00	13.25	Vertical
4924.00	41.82	-7.21	34.61	54.00	19.39	Horizontal
Remark:						
3. <i>Level = Reading + Factor.</i>						
4. <i>Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	59.01	-7.92	51.09	74.00	22.91	Vertical
4824.00	59.69	-7.92	51.77	74.00	22.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.67	-7.92	46.75	54.00	7.25	Vertical
4824.00	54.08	-7.92	46.16	54.00	7.84	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	59.34	-7.55	51.79	74.00	22.21	Vertical
4874.00	59.46	-7.55	51.91	74.00	22.09	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.62	-7.55	47.07	54.00	6.93	Vertical
4874.00	53.59	-7.55	46.04	54.00	7.96	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	59.03	-7.21	51.82	74.00	22.18	Vertical
4924.00	59.75	-7.21	52.54	74.00	21.46	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.14	-7.21	46.93	54.00	7.07	Vertical
4924.00	53.12	-7.21	45.91	54.00	8.09	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	59.73	-7.83	51.90	74.00	22.10	Vertical
4844.00	59.80	-7.83	51.97	74.00	22.03	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	53.75	-7.83	45.92	54.00	8.08	Vertical
4844.00	53.72	-7.83	45.89	54.00	8.11	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	58.58	-7.55	51.03	74.00	22.97	Vertical
4874.00	59.94	-7.55	52.39	74.00	21.61	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.40	-7.55	46.85	54.00	7.15	Vertical
4874.00	54.07	-7.55	46.52	54.00	7.48	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	58.95	-7.27	51.68	74.00	22.32	Vertical
4904.00	59.01	-7.27	51.74	74.00	22.26	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	54.24	-7.27	46.97	54.00	7.03	Vertical
4904.00	52.96	-7.27	45.69	54.00	8.31	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11ax-HE20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	58.72	-7.92	50.80	74.00	23.20	Vertical
4824.00	59.27	-7.92	51.35	74.00	22.65	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.02	-7.92	46.10	54.00	7.90	Vertical
4824.00	54.05	-7.92	46.13	54.00	7.87	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	58.61	-7.55	51.06	74.00	22.94	Vertical
4874.00	59.59	-7.55	52.04	74.00	21.96	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.50	-7.55	46.95	54.00	7.05	Vertical
4874.00	53.56	-7.55	46.01	54.00	7.99	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	58.51	-7.21	51.30	74.00	22.70	Vertical
4924.00	59.50	-7.21	52.29	74.00	21.71	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.01	-7.21	46.80	54.00	7.20	Vertical
4924.00	53.49	-7.21	46.28	54.00	7.72	Horizontal
Remark:						
3. <i>Level = Reading + Factor.</i>						
4. <i>Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

802.11ax-HE40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	57.97	-7.83	50.14	74.00	23.86	Vertical
4844.00	59.07	-7.83	51.24	74.00	22.76	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	53.82	-7.83	45.99	54.00	8.01	Vertical
4844.00	52.91	-7.83	45.08	54.00	8.92	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	58.67	-7.55	51.12	74.00	22.88	Vertical
4874.00	59.55	-7.55	52.00	74.00	22.00	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.45	-7.55	45.90	54.00	8.10	Vertical
4874.00	53.11	-7.55	45.56	54.00	8.44	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	58.80	-7.27	51.53	74.00	22.47	Vertical
4904.00	59.55	-7.27	52.28	74.00	21.72	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	53.73	-7.27	46.46	54.00	7.54	Vertical
4904.00	53.30	-7.27	46.03	54.00	7.97	Horizontal
Remark:						
3. <i>Level = Reading + Factor.</i>						
4. <i>Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

-----End of report-----