FCC RF Test Report

(2.4G Wi-Fi)

Applicant:	Hangzhou Roombanker Technology Co., Ltd.
Address of Applicant:	A#801 Wantong center, Hangzhou, China
Equipment Under Test (EUT)	
Product Name:	Industry Edge Computer Gateway
Model No.:	DSGW-081
FCC ID:	2AUXBDSGW-081
Applicable Standards:	FCC CFR Title 47 Part 15C (§15.247)
Date of Sample Receipt:	30 Aug., 2022
Date of Test:	31 Aug., to 21 Oct., 2022
Date of Report Issued:	25 Oct., 2022
Test Result:	PASS

Tested by:	Mike ou ***Test Engineer***	***Date:***	*25 Oct., 2022*
Reviewed by:	Winner Zhang ***Project Engineer***	***Date:***	*25 Oct., 2022*
Approved by:	***Manager***	***Date:***	*25 Oct., 2022*

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	*25 Oct., 2022*	*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:	Hangzhou Roombanker Technology Co., Ltd.
Address:	A#801 Wantong center, Hangzhou, China

3.2 General Description of E.U.T.

Product Name:	Industry Edge Computer Gateway
Model No.:	DSGW-081
Operation Frequency:	2412 MHz - 2462 MHz (802.11b, g, n-HT20)
	2422 MHz - 2452 MHz (802.11n-HT40)
Channel Numbers:	11 (802.11b, g, n-HT20)
	7 (802.11n-HT40)
Channel Separation:	5MHz
Modulation Technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation Technology: (IEEE 802.11g/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	External Antenna
Antenna Gain:	3.68 dBi (declare by applicant)
Antenna Transmit Mode:	SISO (1TX, 1RX)
Power Supply:	DC 12V
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

Remark: *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.*

Operating Environment:	
Temperature:	15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar

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)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 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 SAC):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	03-30-2022	03-29-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-27-2021	10-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

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	07-12-2022	07-11-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-24-2022	02-23-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	03-30-2022	03-29-2023
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-24-2022	02-23-2023
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	07-12-2022	07-11-2023
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
Power Detector Box	MWRFTEST	MW100-PSB	WXJ007-4	11-19-2021	11-18-2022
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

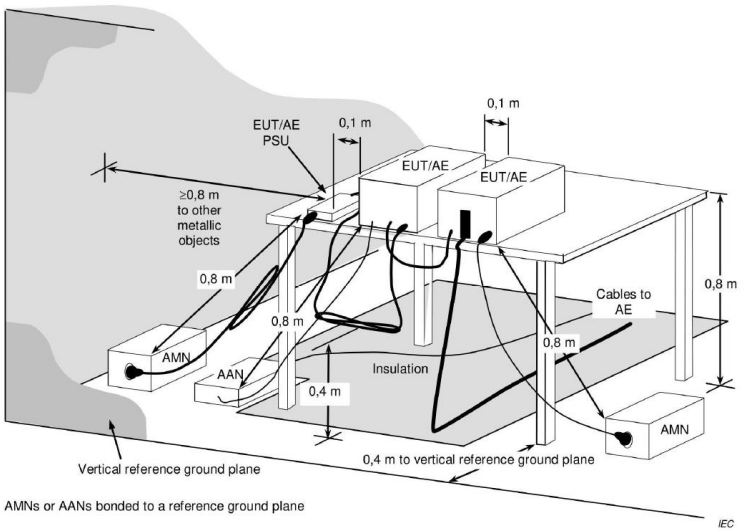
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20					
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					
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

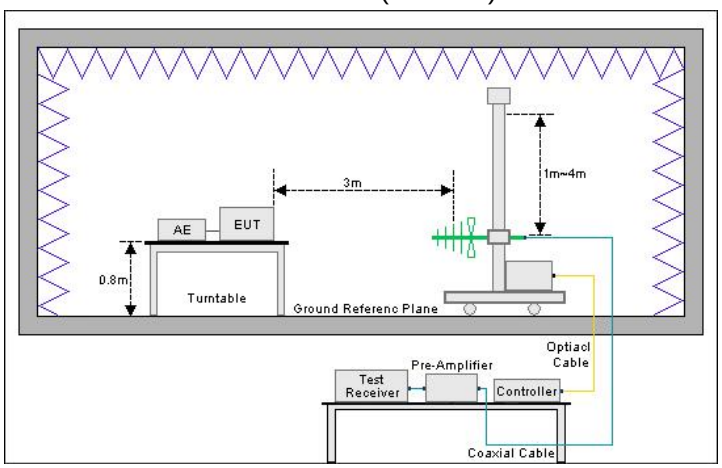
1) Conducted emission measurement:



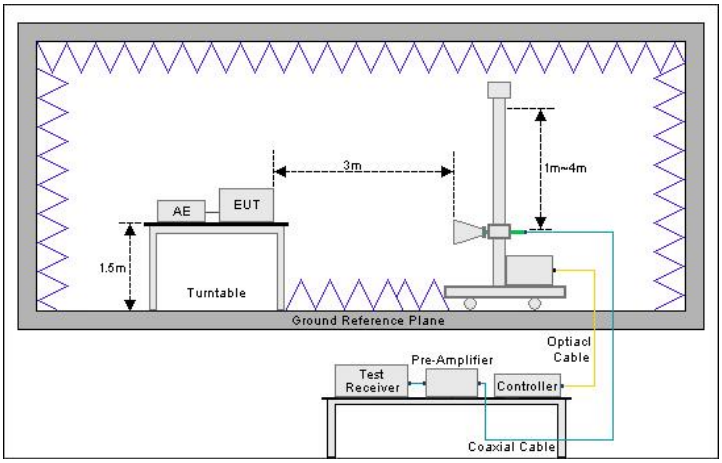
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

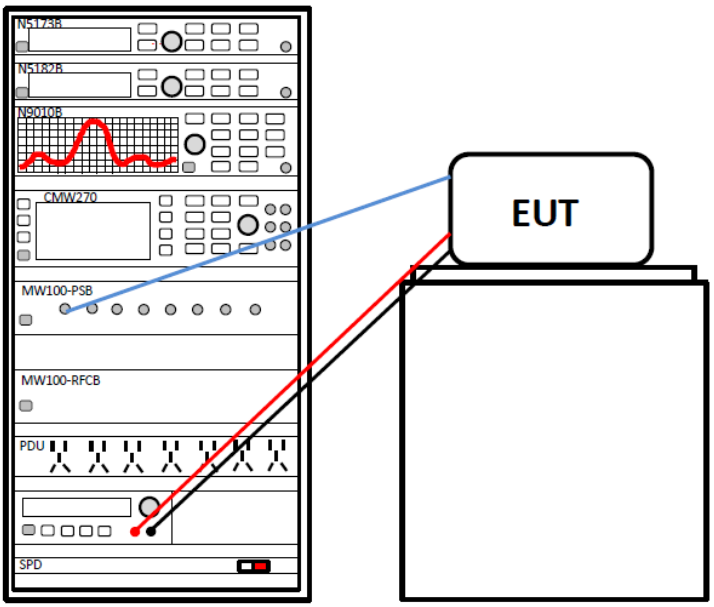
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



3) Conducted test method



4.3 Test Procedure

Test method	Test step
Conducted emission	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	**For below 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. 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. **For above 1GHz:** 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	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	Appendix A– 2.4G Wi-Fi	Pass
Conducted Output Power	15.247 (b)(3)	Appendix A– 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A– 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A– 2.4G Wi-Fi	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix A– 2.4G Wi-Fi	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.5	Pass

Remark:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *N/A: Not Applicable.*
3. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).*

Test Method:	*ANSI C63.10-2013* *KDB 558074 D01 15.247 Meas Guidance v05r02*

5.1.2 Test Limit

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>AC Power Line Conducted Emission</td><td>
<table>
<tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr>
<tr><th>Quasi-Peak</th><th>Average</th></tr>
<tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</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>
<tr><td colspan="3">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.
Note 2: The more stringent limit applies at transition frequencies.</td></tr>
</table>
</td></tr>
<tr><td>Conducted Output Power</td><td>For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.</td></tr>
<tr><td>6dB Emission Bandwidth</td><td>The minimum 6 dB bandwidth shall be at least 500 kHz.</td></tr>
<tr><td>99% Occupied Bandwidth</td><td>N/A</td></tr>
<tr><td>Power Spectral Density</td><td>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.</td></tr>
<tr><td>Band-edge Emission

Conduction Spurious Emission</td><td>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)).</td></tr>
<tr><td>Emissions in Restricted Frequency Bands

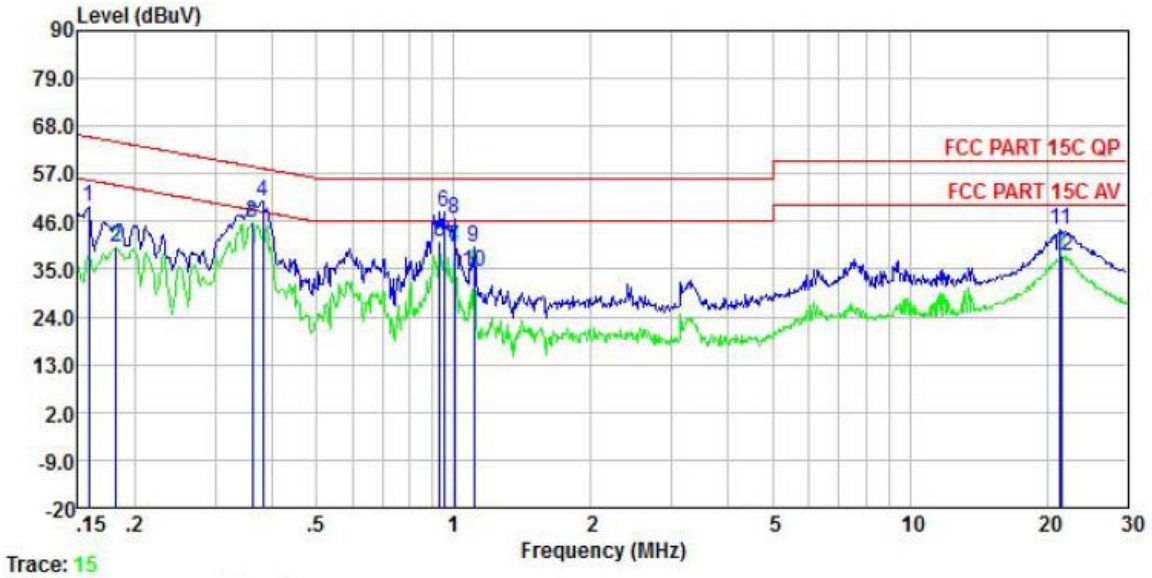
Emissions in Non-restricted Frequency Bands</td><td>
<table>
<tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV/m)</th><th rowspan="2">Detector</th></tr>
<tr><th>@ 3m</th><th>@ 10m</th></tr>
<tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr>
<tr><td>88 – 216</td><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>
<tr><td colspan="4">Note: The more stringent limit applies at transition frequencies.</td></tr>
<tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBμV/m) @ 3m</th><th></th></tr>
<tr><th>Average</th><th>Peake</th><th></th></tr>
<tr><td>Above 1 GHz</td><td colspan="2">54.0</td><td>74.0</td></tr>
<tr><td colspan="4">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr>
</table>
</td></tr>
</table>

5.2 Antenna Requirement

Standard Requirement:	FCC Part 15 C Section 15.203/15.247 (b)(4)
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. **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.	
E.U.T Antenna:	
The Wi-Fi antenna is an External antenna, its connector is a special connection port and which cannot replace by end-user, the best case gain of the antenna is 3.68 dBi. See product internal photos for details.	

5.3 AC Power Line Conducted Emission

Product name:	Industry Edge Computer Gateway	Product model:	DSGW-081
Test by:	Mike	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

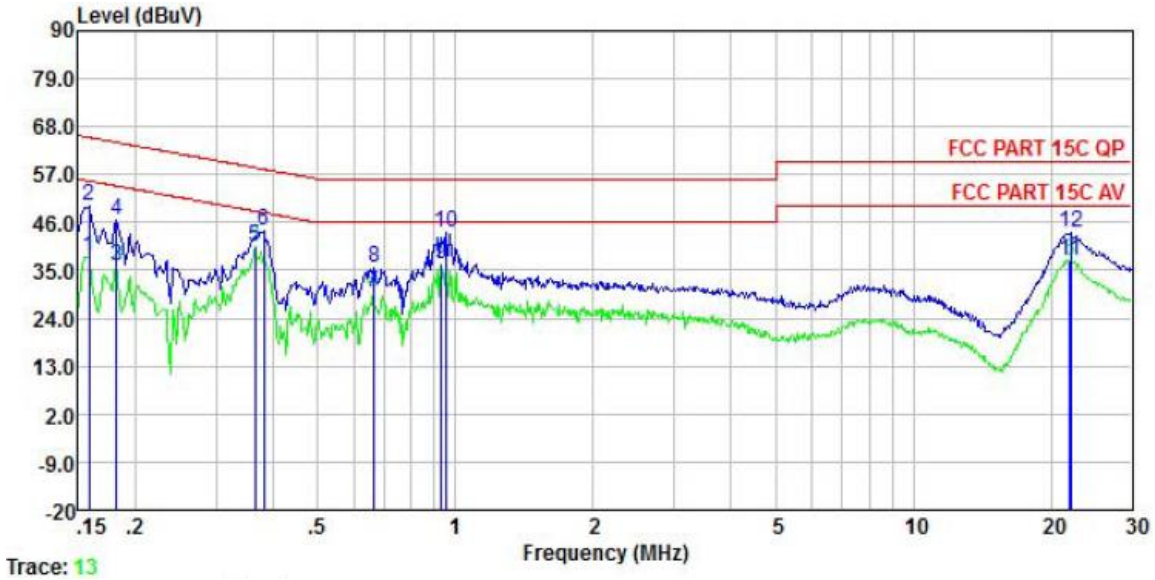


	Freq	Read Level	LISN Factor	Cable Loss	Aux2 Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	38.87	0.04	0.01	10.50	49.42	65.56	-16.14	QP
2	0.182	29.48	0.05	0.01	10.50	40.04	54.42	-14.38	Average
3	0.361	35.01	0.06	0.02	10.50	45.59	48.69	-3.10	Average
4	0.381	40.00	0.06	0.03	10.50	50.59	58.25	-7.66	QP
5	0.933	30.73	0.07	0.04	10.50	41.34	46.00	-4.66	Average
6	0.953	37.57	0.07	0.05	10.50	48.19	56.00	-7.81	QP
7	1.005	29.58	0.07	0.05	10.50	40.20	46.00	-5.80	Average
8	1.005	35.91	0.07	0.05	10.50	46.53	56.00	-9.47	QP
9	1.106	29.24	0.07	0.07	10.50	39.88	56.00	-16.12	QP
10	1.111	23.70	0.07	0.07	10.50	34.34	46.00	-11.66	Average
11	21.373	33.03	0.35	0.17	10.50	44.05	60.00	-15.95	QP
12	21.486	26.99	0.35	0.17	10.50	38.01	50.00	-11.99	Average

Remark:

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

Product name:	Industry Edge Computer Gateway	Product model:	DSGW-081
Test by:	Mike	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



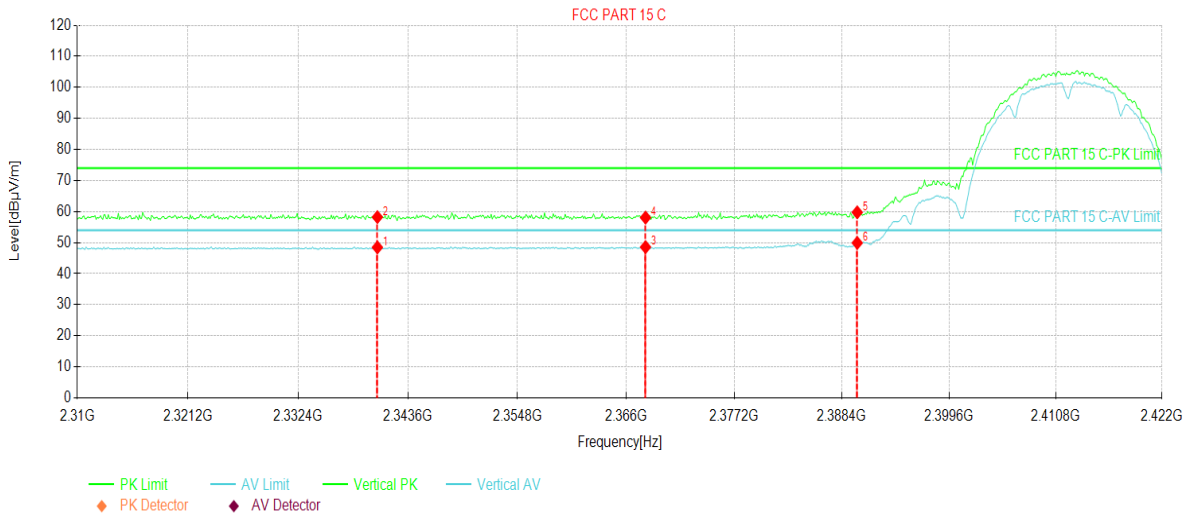
	Freq	Read Level	LISN Factor	Cable Loss	Aux2 Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	27.65	0.06	0.01	10.50	38.22	55.56	-17.34	Average
2	0.158	39.08	0.06	0.01	10.50	49.65	65.56	-15.91	QP
3	0.182	25.42	0.05	0.01	10.50	35.98	54.42	-18.44	Average
4	0.182	35.96	0.05	0.01	10.50	46.52	64.42	-17.90	QP
5	0.365	29.77	0.05	0.03	10.50	40.35	48.61	-8.26	Average
6	0.381	33.64	0.05	0.03	10.50	44.22	58.25	-14.03	QP
7	0.661	19.18	0.06	0.03	10.50	29.77	46.00	-16.23	Average
8	0.665	24.85	0.06	0.03	10.50	35.44	56.00	-20.56	QP
9	0.933	25.92	0.06	0.04	10.50	36.52	46.00	-9.48	Average
10	0.953	33.31	0.06	0.05	10.50	43.92	56.00	-12.08	QP
11	21.946	26.40	0.36	0.16	10.50	37.42	50.00	-12.58	Average
12	22.063	32.56	0.36	0.16	10.50	43.58	60.00	-16.42	QP

Remark:

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

5.4 Emissions in Restricted Frequency Bands

Product Name:	Industry Edge Computer Gateway	**Product Model:**	DSGW-081
Test By:	Mike	**Test mode:**	802.11b Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz		

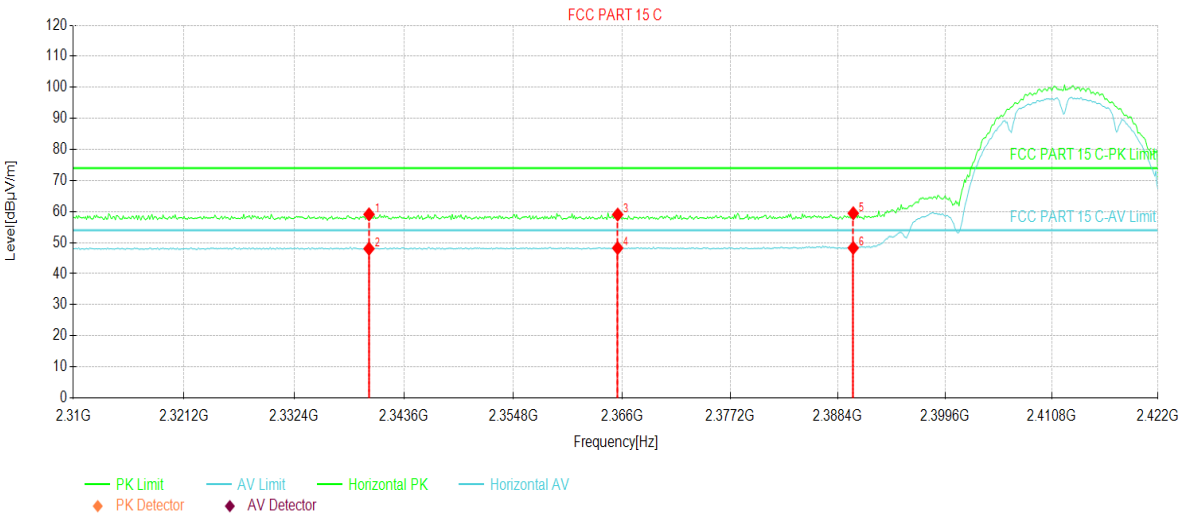


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2340.46	13.24	35.22	48.46	54.00	5.54	AV	Vertical
2	2340.46	22.99	35.22	58.21	74.00	15.79	PK	Vertical
3	2368.01	13.14	35.43	48.57	54.00	5.43	AV	Vertical
4	2368.01	22.62	35.43	58.05	74.00	15.95	PK	Vertical
5	2390.00	24.15	35.60	59.75	74.00	14.25	PK	Vertical
6	2390.00	14.30	35.60	49.90	54.00	4.10	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

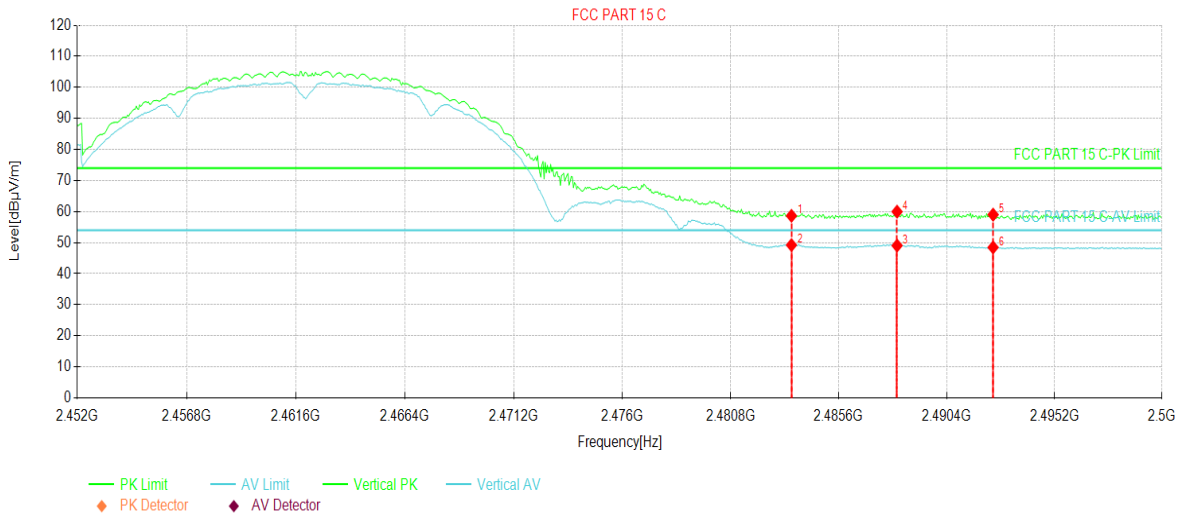


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2340.01	23.87	35.22	59.09	74.00	14.91	PK	Horizontal
2	2340.01	12.81	35.22	48.03	54.00	5.97	AV	Horizontal
3	2365.55	23.62	35.41	59.03	74.00	14.97	PK	Horizontal
4	2365.55	12.84	35.41	48.25	54.00	5.75	AV	Horizontal
5	2390.00	23.85	35.60	59.45	74.00	14.55	PK	Horizontal
6	2390.00	12.69	35.60	48.29	54.00	5.71	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

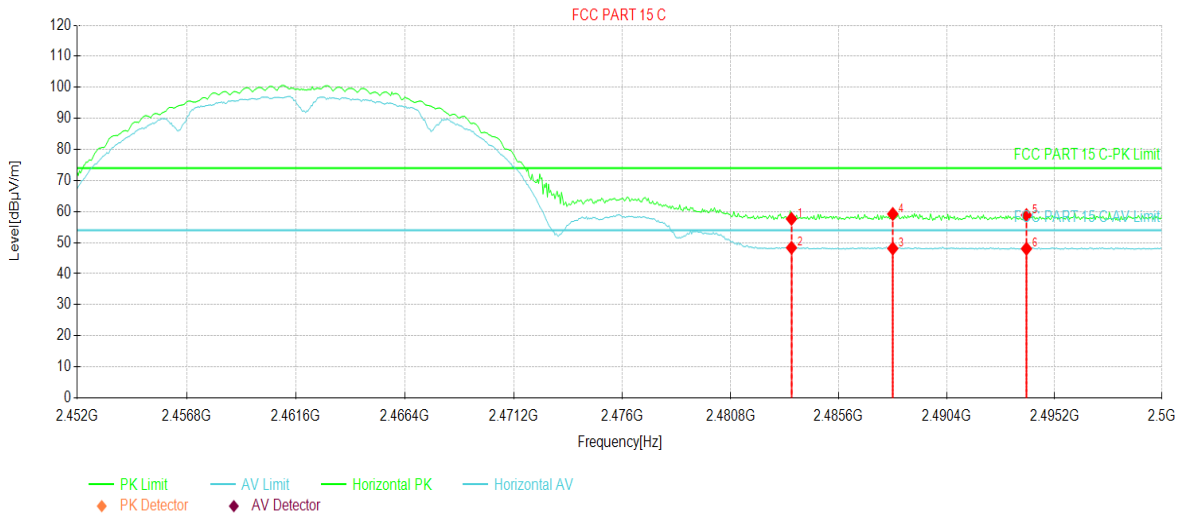


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.11	35.51	58.62	74.00	15.38	PK	Vertical
2	2483.50	13.70	35.51	49.21	54.00	4.79	AV	Vertical
3	2488.19	13.54	35.50	49.04	54.00	4.96	AV	Vertical
4	2488.19	24.47	35.50	59.97	74.00	14.03	PK	Vertical
5	2492.46	23.51	35.49	59.00	74.00	15.00	PK	Vertical
6	2492.46	12.96	35.49	48.45	54.00	5.55	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

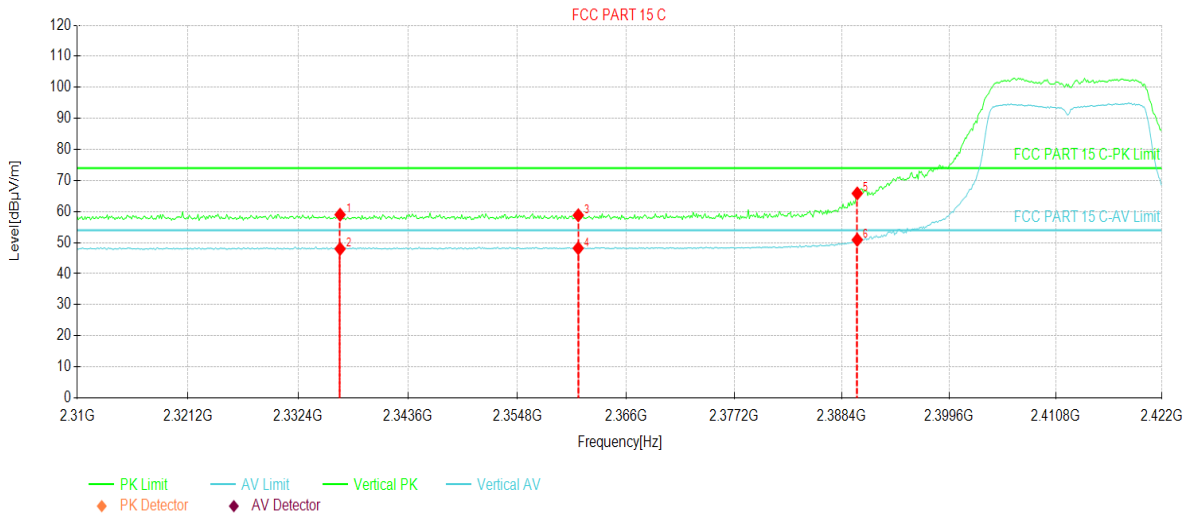


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.14	35.51	57.65	74.00	16.35	PK	Horizontal
2	2483.50	12.84	35.51	48.35	54.00	5.65	AV	Horizontal
3	2488.00	12.61	35.50	48.11	54.00	5.89	AV	Horizontal
4	2488.00	23.73	35.50	59.23	74.00	14.77	PK	Horizontal
5	2493.95	23.36	35.49	58.85	74.00	15.15	PK	Horizontal
6	2493.95	12.54	35.49	48.03	54.00	5.97	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

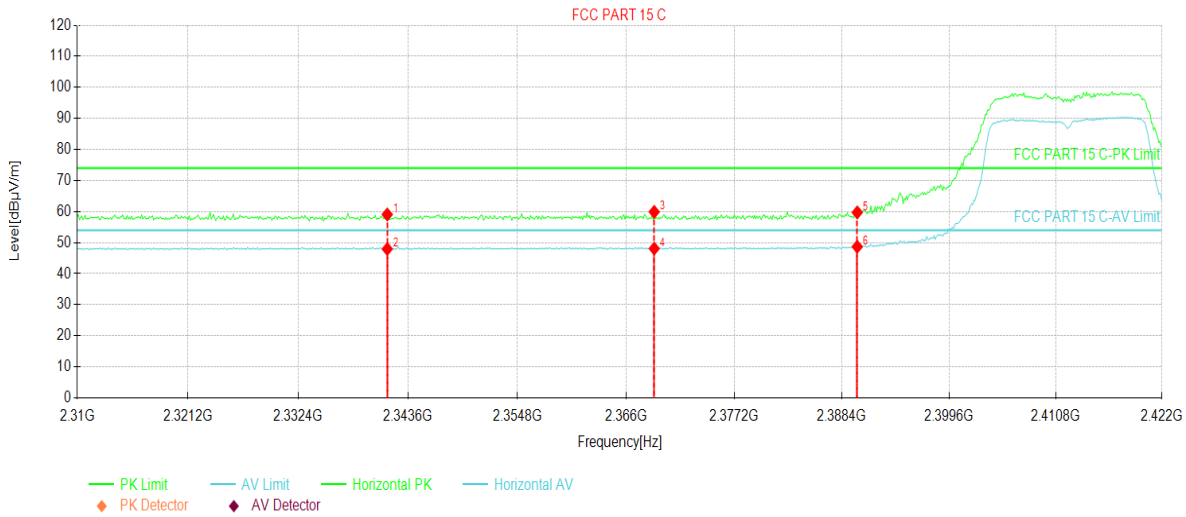


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2336.65	23.81	35.19	59.00	74.00	15.00	PK	Vertical
2	2336.65	12.81	35.19	48.00	54.00	6.00	AV	Vertical
3	2361.07	23.43	35.38	58.81	74.00	15.19	PK	Vertical
4	2361.07	12.81	35.38	48.19	54.00	5.81	AV	Vertical
5	2390.00	30.24	35.60	65.84	74.00	8.16	PK	Vertical
6	2390.00	15.30	35.60	50.90	54.00	3.10	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

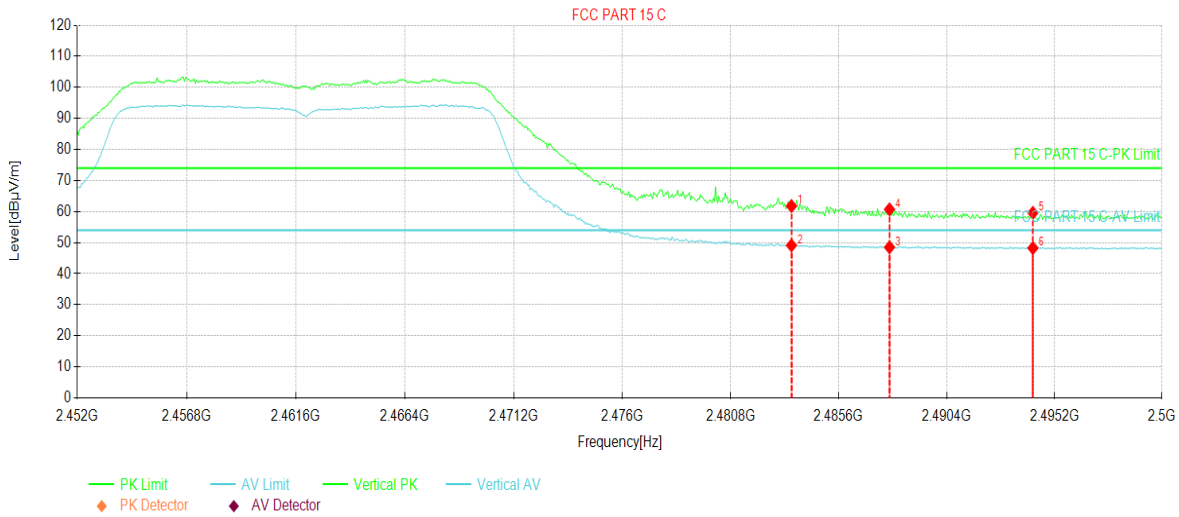


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2341.47	23.83	35.23	59.06	74.00	14.94	PK	Horizontal
2	2341.47	12.71	35.23	47.94	54.00	6.06	AV	Horizontal
3	2368.91	24.47	35.44	59.91	74.00	14.09	PK	Horizontal
4	2368.91	12.64	35.44	48.08	54.00	5.92	AV	Horizontal
5	2390.00	24.12	35.60	59.72	74.00	14.28	PK	Horizontal
6	2390.00	13.08	35.60	48.68	54.00	5.32	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

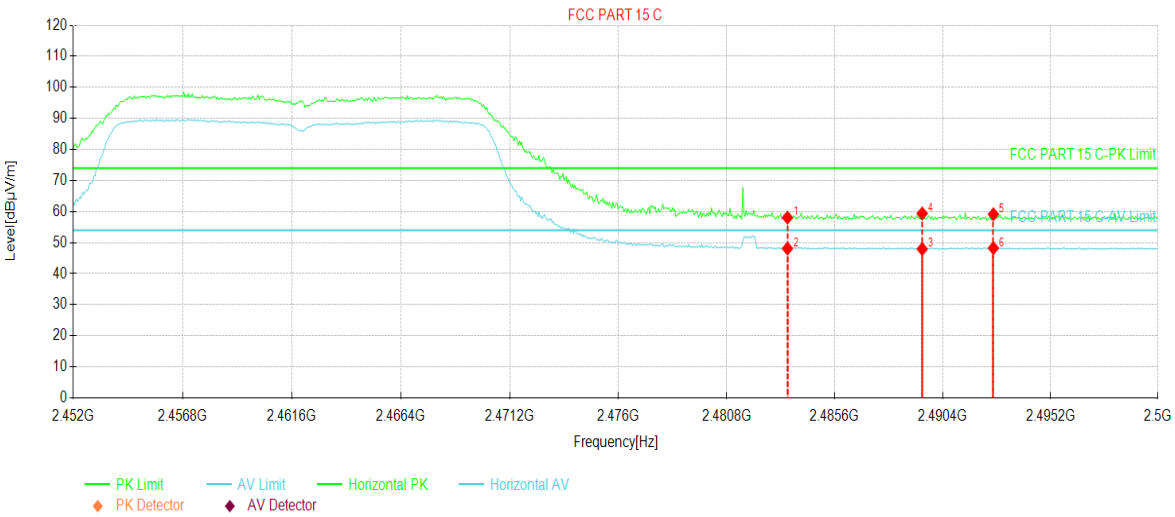


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	26.27	35.51	61.78	74.00	12.22	PK	Vertical
2	2483.50	13.60	35.51	49.11	54.00	4.89	AV	Vertical
3	2487.85	12.99	35.50	48.49	54.00	5.51	AV	Vertical
4	2487.85	25.22	35.50	60.72	74.00	13.28	PK	Vertical
5	2494.24	24.11	35.49	59.60	74.00	14.40	PK	Vertical
6	2494.24	12.76	35.49	48.25	54.00	5.75	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	**Product Model:**	DSGW-081
Test By:	Mike	**Test mode:**	802.11g Tx mode
Test Channel:	Highest channel	**Polarization:**	Horizontal
Test Voltage:	AC 120/60Hz		

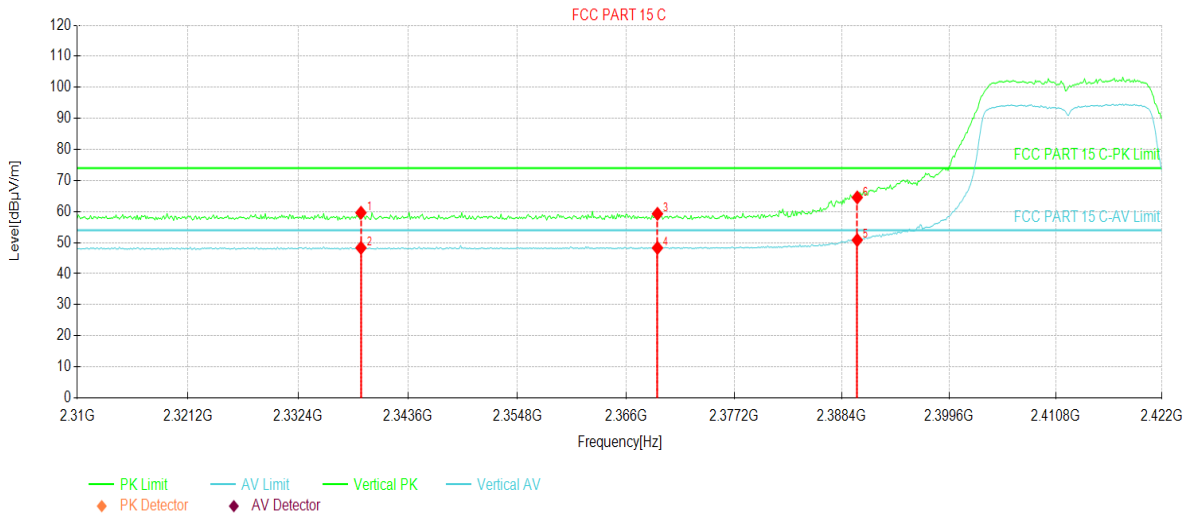


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.53	35.51	58.04	74.00	15.96	PK	Horizontal
2	2483.50	12.59	35.51	48.10	54.00	5.90	AV	Horizontal
3	2489.48	12.46	35.50	47.96	54.00	6.04	AV	Horizontal
4	2489.48	23.88	35.50	59.38	74.00	14.62	PK	Horizontal
5	2492.65	23.65	35.49	59.14	74.00	14.86	PK	Horizontal
6	2492.65	12.75	35.49	48.24	54.00	5.76	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

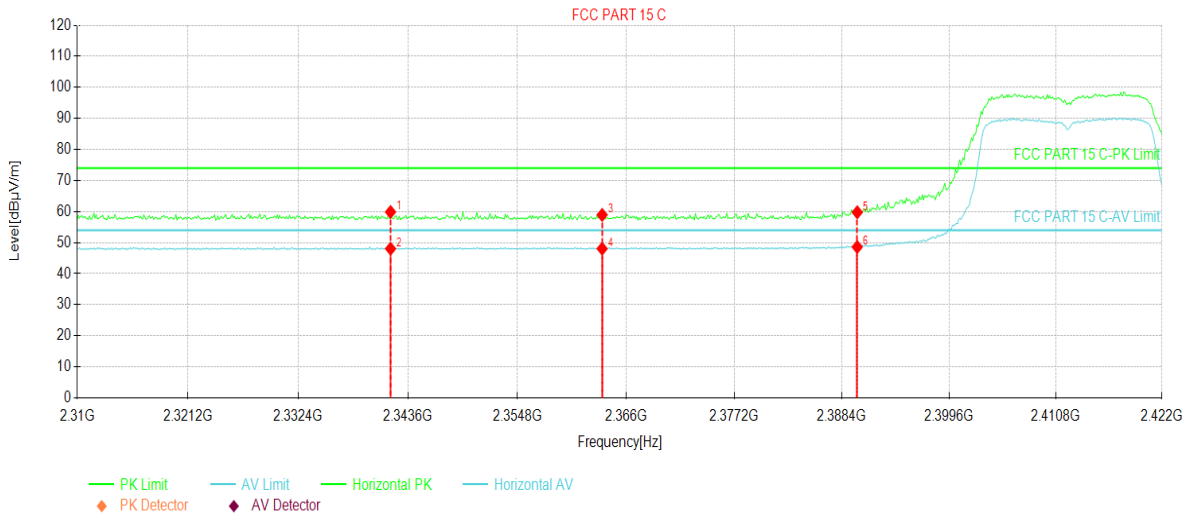


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2338.78	24.40	35.21	59.61	74.00	14.39	PK	Vertical
2	2338.78	13.10	35.21	48.31	54.00	5.69	AV	Vertical
3	2369.24	23.83	35.44	59.27	74.00	14.73	PK	Vertical
4	2369.24	12.84	35.44	48.28	54.00	5.72	AV	Vertical
5	2390.00	15.23	35.60	50.83	54.00	3.17	AV	Vertical
6	2390.00	28.94	35.60	64.54	74.00	9.46	PK	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

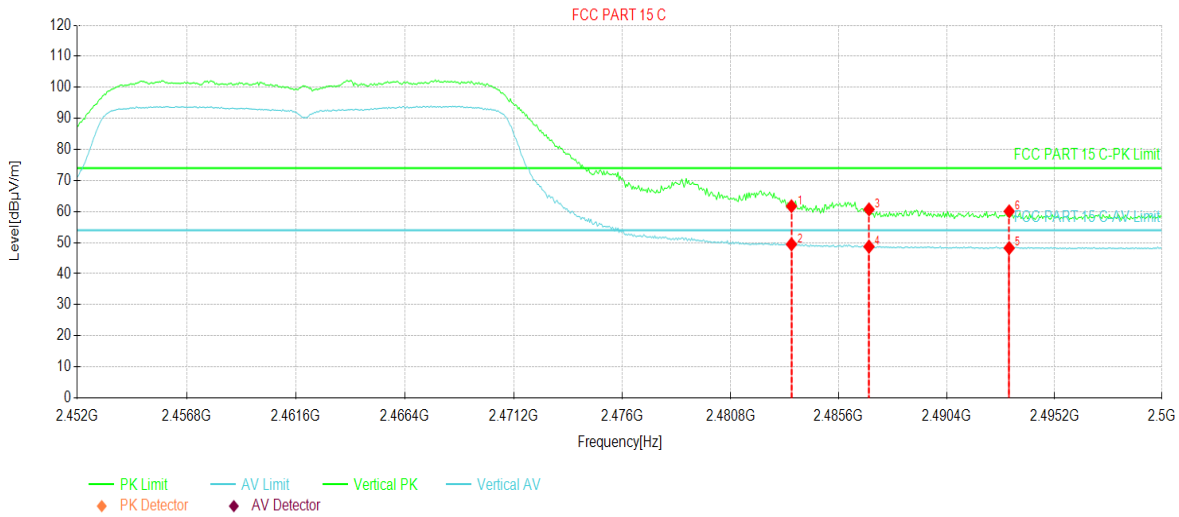


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2341.80	24.64	35.23	59.87	74.00	14.13	PK	Horizontal
2	2341.80	12.81	35.23	48.04	54.00	5.96	AV	Horizontal
3	2363.53	23.53	35.40	58.93	74.00	15.07	PK	Horizontal
4	2363.53	12.64	35.40	48.04	54.00	5.96	AV	Horizontal
5	2390.00	24.16	35.60	59.76	74.00	14.24	PK	Horizontal
6	2390.00	13.00	35.60	48.60	54.00	5.40	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

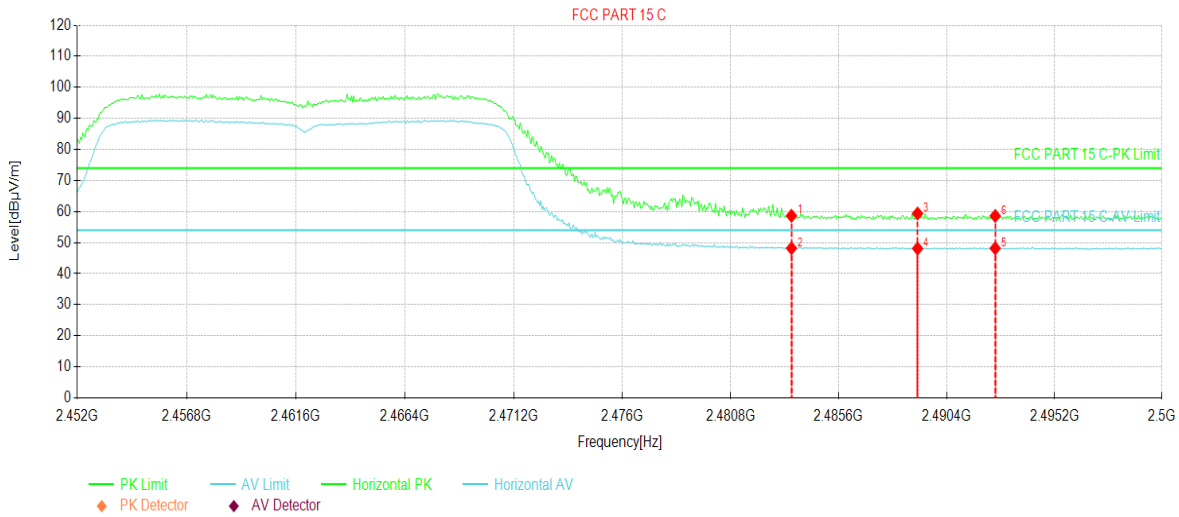


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	26.21	35.51	61.72	74.00	12.28	PK	Vertical
2	2483.50	13.95	35.51	49.46	54.00	4.54	AV	Vertical
3	2486.94	25.21	35.50	60.71	74.00	13.29	PK	Vertical
4	2486.94	13.21	35.50	48.71	54.00	5.29	AV	Vertical
5	2493.18	12.76	35.49	48.25	54.00	5.75	AV	Vertical
6	2493.18	24.58	35.49	60.07	74.00	13.93	PK	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	**Product Model:**	DSGW-081
Test By:	Mike	**Test mode:**	802.11n-HT20 Tx mode
Test Channel:	Highest channel	**Polarization:**	Horizontal
Test Voltage:	AC 120/60Hz		

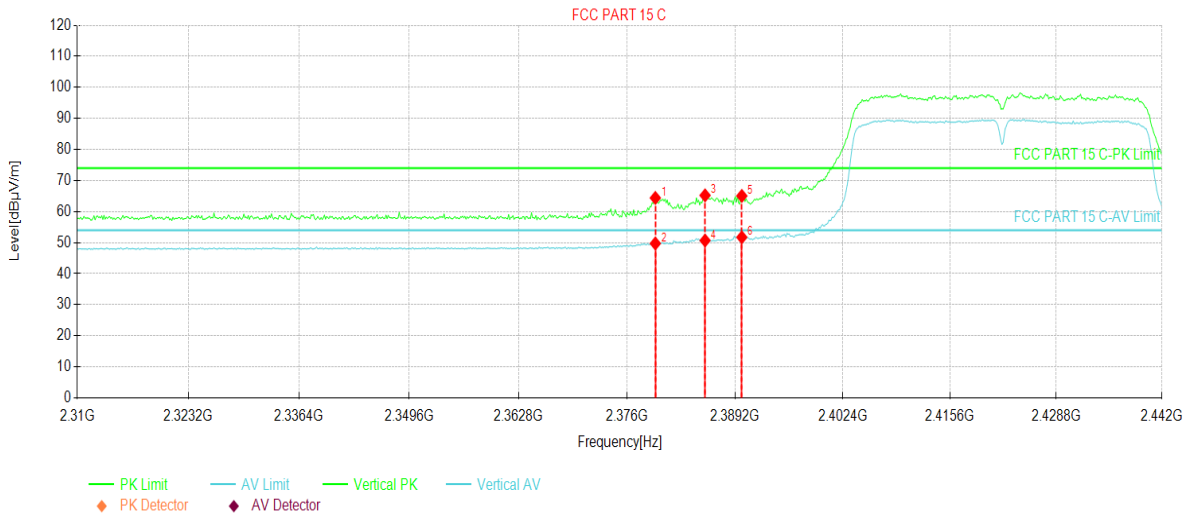


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	23.14	35.51	58.65	74.00	15.35	PK	Horizontal
2	2483.50	12.69	35.51	48.20	54.00	5.80	AV	Horizontal
3	2489.10	23.87	35.50	59.37	74.00	14.63	PK	Horizontal
4	2489.10	12.60	35.50	48.10	54.00	5.90	AV	Horizontal
5	2492.56	12.68	35.49	48.17	54.00	5.83	AV	Horizontal
6	2492.56	23.11	35.49	58.60	74.00	15.40	PK	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

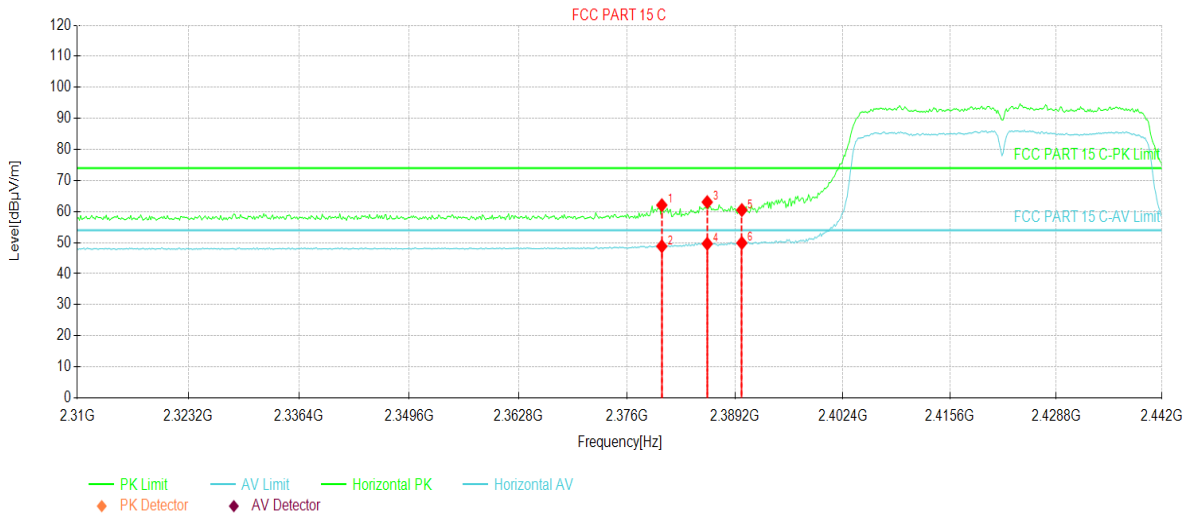


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2379.43	28.88	35.52	64.40	74.00	9.60	PK	Vertical
2	2379.43	14.21	35.52	49.73	54.00	4.27	AV	Vertical
3	2385.50	29.66	35.56	65.22	74.00	8.78	PK	Vertical
4	2385.50	15.13	35.56	50.69	54.00	3.31	AV	Vertical
5	2390.00	29.43	35.60	65.03	74.00	8.97	PK	Vertical
6	2390.00	16.13	35.60	51.73	54.00	2.27	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

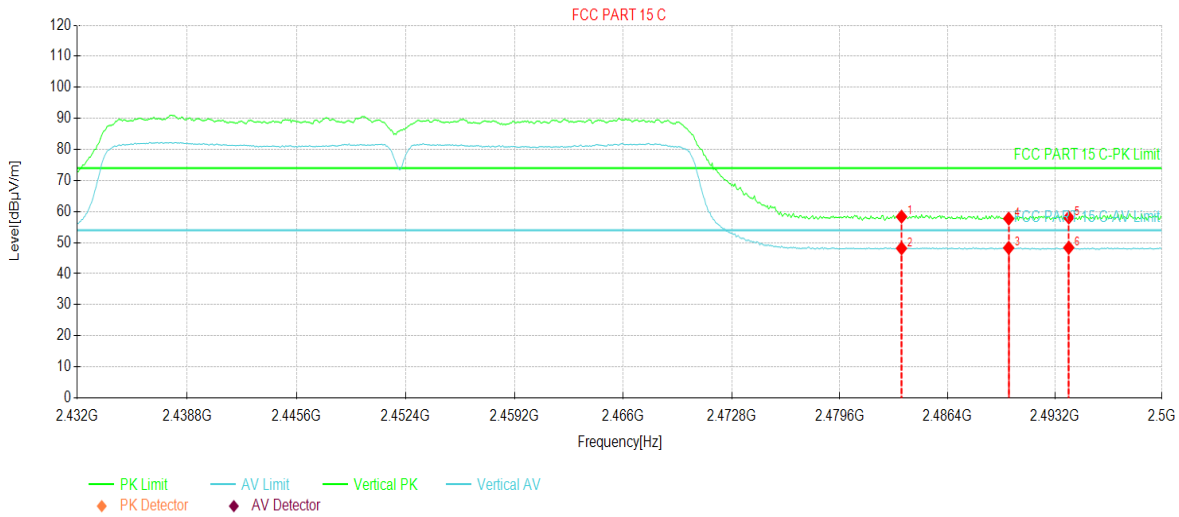


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2380.22	26.55	35.52	62.07	74.00	11.93	PK	Horizontal
2	2380.22	13.31	35.52	48.83	54.00	5.17	AV	Horizontal
3	2385.76	27.49	35.56	63.05	74.00	10.95	PK	Horizontal
4	2385.76	14.07	35.56	49.63	54.00	4.37	AV	Horizontal
5	2390.00	24.88	35.60	60.48	74.00	13.52	PK	Horizontal
6	2390.00	14.28	35.60	49.88	54.00	4.12	AV	Horizontal

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

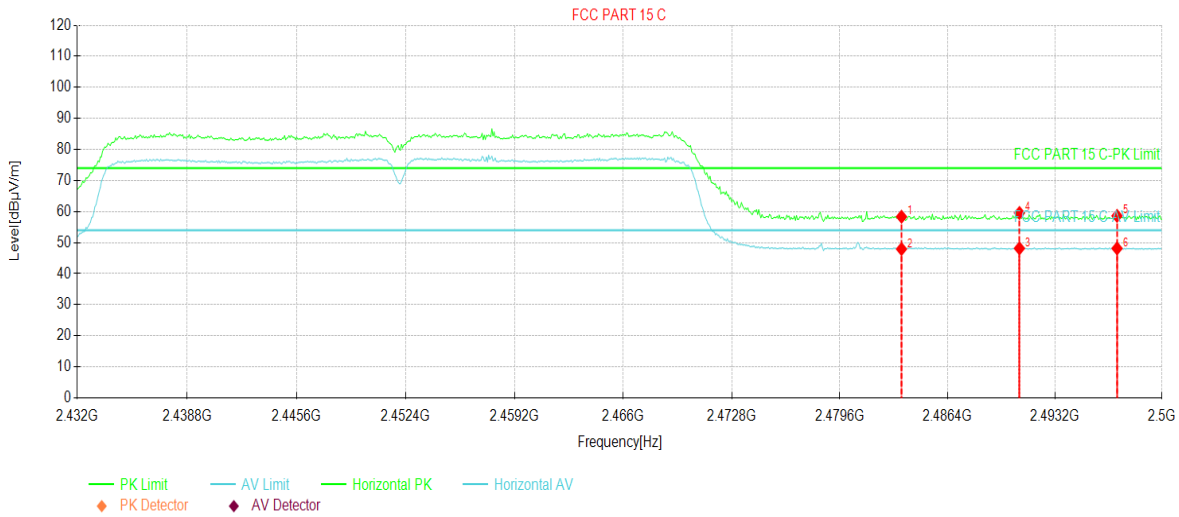


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.84	35.51	58.35	74.00	15.65	PK	Vertical
2	2483.50	12.64	35.51	48.15	54.00	5.85	AV	Vertical
3	2490.27	12.81	35.50	48.31	54.00	5.69	AV	Vertical
4	2490.27	22.23	35.50	57.73	74.00	16.27	PK	Vertical
5	2494.08	22.61	35.49	58.10	74.00	15.90	PK	Vertical
6	2494.08	12.89	35.49	48.38	54.00	5.62	AV	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	Product Model:	DSGW-081
Test By:	Mike	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/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.83	35.51	58.34	74.00	15.66	PK	Horizontal
2	2483.50	12.41	35.51	47.92	54.00	6.08	AV	Horizontal
3	2490.95	12.65	35.50	48.15	54.00	5.85	AV	Horizontal
4	2490.95	24.05	35.50	59.55	74.00	14.45	PK	Horizontal
5	2497.14	23.13	35.49	58.62	74.00	15.38	PK	Horizontal
6	2497.14	12.64	35.49	48.13	54.00	5.87	AV	Horizontal

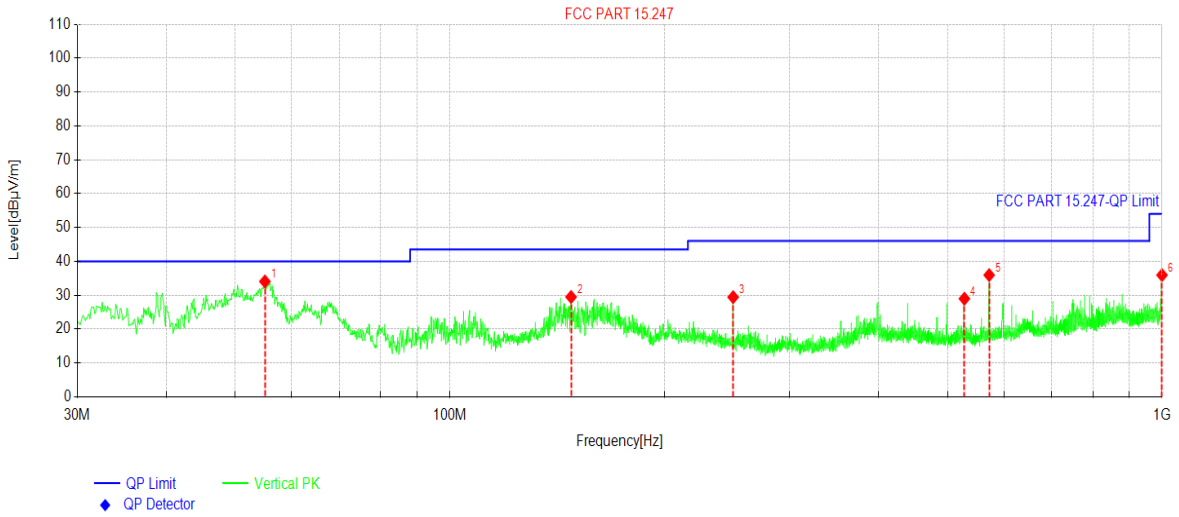
Remark:

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

5.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Industry Edge Computer Gateway	**Product Model:**	DSGW-081
Test By:	Mike	**Test mode:**	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical
Test Voltage:	AC 120/60Hz		

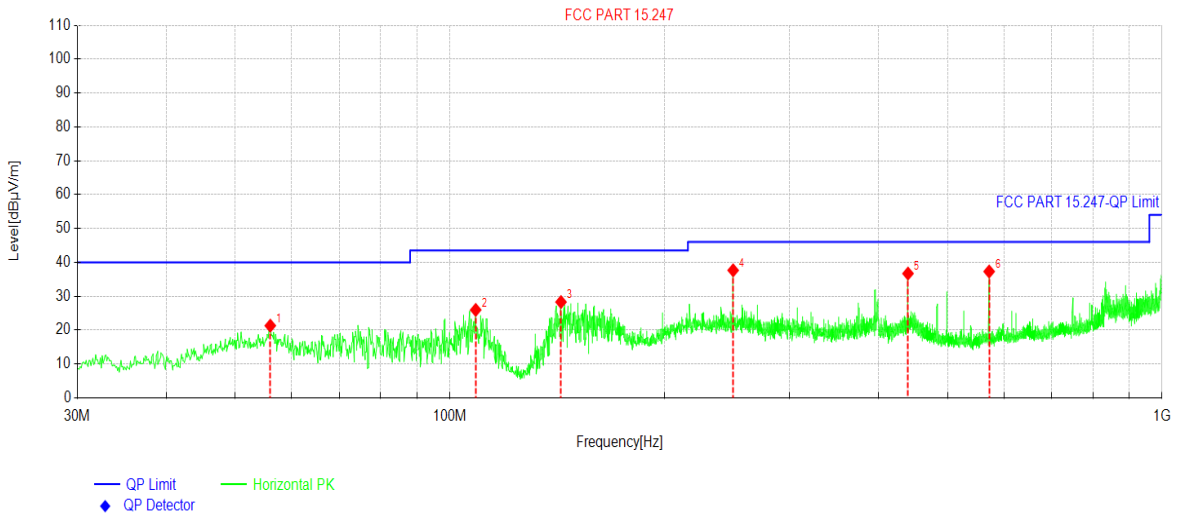


Suspected Data List								
NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	55.0285	47.27	34.07	-13.20	40.00	5.93	PK	Vertical
2	148.060	47.84	29.49	-18.35	43.50	14.01	PK	Vertical
3	250.018	43.44	29.44	-14.00	46.00	16.56	PK	Vertical
4	527.950	37.40	28.98	-8.42	46.00	17.02	PK	Vertical
5	571.993	43.34	35.95	-7.39	46.00	10.05	PK	Vertical
6	1000.00	37.69	35.96	-1.73	54.00	18.04	PK	Vertical

Remark:

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

Product Name:	Industry Edge Computer Gateway	**Product Model:**	DSGW-081
Test By:	Mike	**Test mode:**	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading[dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	55.9986	34.75	21.32	-13.43	40.00	18.68	PK	Horizontal
2	108.771	40.76	25.97	-14.79	43.50	17.53	PK	Horizontal
3	143.307	46.70	28.29	-18.41	43.50	15.21	PK	Horizontal
4	250.018	51.66	37.66	-14.00	46.00	8.34	PK	Horizontal
5	439.963	46.79	36.71	-10.08	46.00	9.29	PK	Horizontal
6	571.993	44.70	37.31	-7.39	46.00	8.69	PK	Horizontal

Remark:

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

Above 1GHz

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	56.47	-8.96	47.51	74.00	26.49	Vertical
4824.00	54.58	-8.96	45.62	74.00	28.38	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.14	-8.96	42.18	54.00	11.82	Vertical
4824.00	47.73	-8.96	38.77	54.00	15.23	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	56.26	-8.64	47.62	74.00	26.38	Vertical
4874.00	54.10	-8.64	45.46	74.00	28.54	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.17	-8.64	42.53	54.00	11.47	Vertical
4874.00	47.37	-8.64	38.73	54.00	15.27	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	56.14	-8.29	47.85	74.00	26.15	Vertical
4924.00	55.01	-8.29	46.72	74.00	27.28	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	50.78	-8.29	42.49	54.00	11.51	Vertical
4924.00	47.97	-8.29	39.68	54.00	14.32	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.*

802.11g

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	56.56	-8.96	47.60	74.00	26.40	Vertical
4824.00	54.40	-8.96	45.44	74.00	28.56	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.04	-8.96	42.08	54.00	11.92	Vertical
4824.00	47.43	-8.96	38.47	54.00	15.53	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	56.75	-8.64	48.11	74.00	25.89	Vertical
4874.00	54.83	-8.64	46.19	74.00	27.81	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	51.62	-8.64	42.98	54.00	11.02	Vertical
4874.00	47.79	-8.64	39.15	54.00	14.85	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	56.88	-8.29	48.59	74.00	25.41	Vertical
4924.00	54.57	-8.29	46.28	74.00	27.72	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	50.98	-8.29	42.69	54.00	11.31	Vertical
4924.00	47.66	-8.29	39.37	54.00	14.63	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-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	56.73	-8.96	47.77	74.00	26.23	Vertical
4824.00	54.68	-8.96	45.72	74.00	28.28	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	51.43	-8.96	42.47	54.00	11.53	Vertical
4824.00	47.94	-8.96	38.98	54.00	15.02	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	56.91	-8.64	48.27	74.00	25.73	Vertical
4874.00	54.91	-8.64	46.27	74.00	27.73	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	50.78	-8.64	42.14	54.00	11.86	Vertical
4874.00	47.99	-8.64	39.35	54.00	14.65	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	55.98	-8.29	47.69	74.00	26.31	Vertical
4924.00	54.42	-8.29	46.13	74.00	27.87	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	50.66	-8.29	42.37	54.00	11.63	Vertical
4924.00	47.66	-8.29	39.37	54.00	14.63	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	56.48	-8.96	47.52	74.00	26.48	Vertical
4844.00	54.60	-8.96	45.64	74.00	28.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	51.12	-8.96	42.16	54.00	11.84	Vertical
4844.00	48.01	-8.96	39.05	54.00	14.95	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	56.45	-8.64	47.81	74.00	26.19	Vertical
4874.00	54.24	-8.64	45.60	74.00	28.40	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	50.68	-8.64	42.04	54.00	11.96	Vertical
4874.00	47.35	-8.64	38.71	54.00	15.29	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	56.43	-8.29	48.14	74.00	25.86	Vertical
4904.00	54.61	-8.29	46.32	74.00	27.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	50.77	-8.29	42.48	54.00	11.52	Vertical
4904.00	47.92	-8.29	39.63	54.00	14.37	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.*

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