

Prüfbericht-Nr.: <i>Test report no.:</i>	CN233FVW 001	Auftrags-Nr.: <i>Order no.:</i>	168403102	Seite 1 von 18 Page 1 of 18
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-12-15	
Auftraggeber: <i>Client:</i>	DATAMARS SA Via Industria 16, 6814 Lamone, Switzerland			
Prüfgegenstand: <i>Test item:</i>	Activetag Edge Gateway			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	GW2-Ethernet/WiFi(Part Number: 880 0004-658)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR Title 47, Part 15, Subpart C, Section 15.249 RSS-210 Issue 10 December 2019 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-12-20	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003389847-002			
Prüfzeitraum: <i>Testing period:</i>	2022-12-20 – 2023-02-15			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	 Jonathan Li		genehmigt von: <i>authorized by:</i>	 Winnie Hou
Datum: <i>Date:</i>	2024-06-30		Ausstellungsdatum: <i>Issue date:</i>	2024-06-30
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / <i>Other:</i>	FCC ID: NDX-GW2 IC: 4678A-GW2 HVIN: GW2			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.4 BAND EDGE

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of FCC Part 15C

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069, CAB identifier: CN0078

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Signal Analyzer	R&S	FSV 40	101441	2023-08-01
OSP	R&S	OSP 150	101017	2023-11-21
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	2023-11-21
Wideband Power Sensor	R&S	NRP-Z81	105677	2023-08-01
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions measurements as below table.

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is an Activetag Edge Gateway, which supports General 2.4GHz transmitter wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Activetag Edge Gateway
Type Designation:	GW2-Ethernet/WiFi(Part Number: 880 0004-658)
Trademark:	N/A
FCC ID:	NDX-GW2
IC:	4678A-GW2
HVIN:	GW2
Operating Voltage:	AC120V/60Hz
Testing Voltage:	AC120V/60Hz
Operating Temperature Range:	-15 °C ~ 50 °C
Technical Specification of 2.4GHz	
Frequency Range:	2402.0-2480.0MHz
Type of Modulation:	FLRC
Channel Number:	40 channels
Channel Separation:	2MHz
Antenna Type:	External Antenna
Antenna Gain:	2.0 dBi max

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 2.4GHz FLRC transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. 2.4GHz FLRC+2.4GHz WLAN operating

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Operation Description
- Schematics
- Parts List
- ID Label and Location Info
- Block Diagram
- PCB Layout

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013. According to clause 3.1, all test were performed on model GW2-LTE/Ethernet/WiFi.

Table 3: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage (Battery operated)	Relative Humidity
NTNV	25°C±2°C	3.0Vdc	Ambient

Table 4: Test channel and frequency

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 2402MHz, 2440MHz, 2480MHz	--

4.3 Special Accessories and Auxiliary Equipment

N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

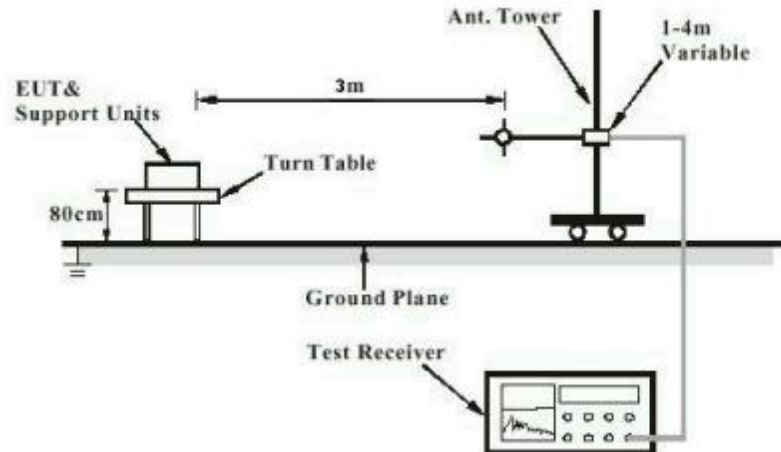


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

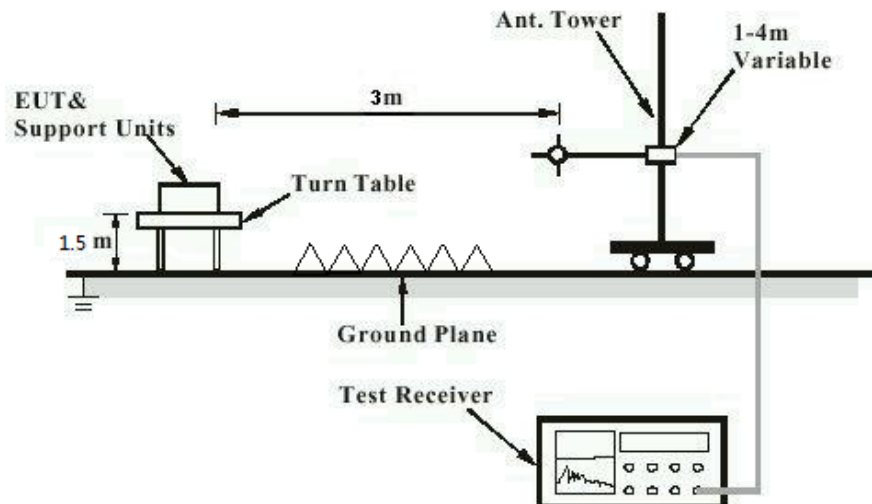


Diagram of Measurement Configuration for Mains Conduction Measurement

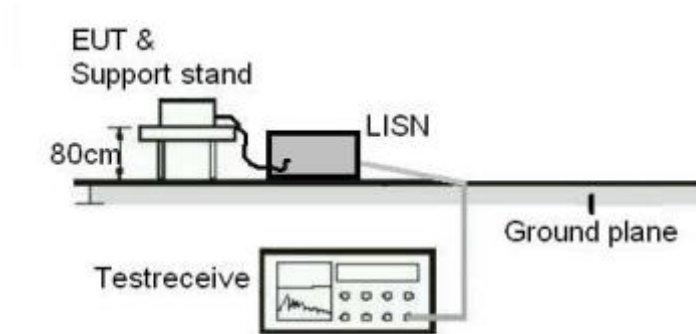
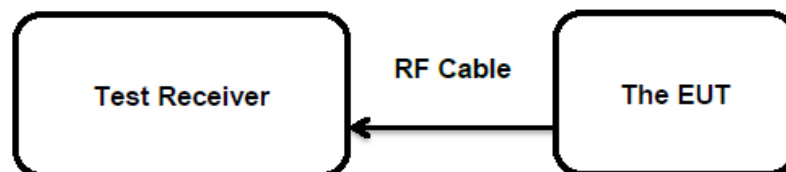


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a No-standard connector external antenna, the gain of antenna is 2.0 dBi, which that permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Field strength of fundamental and harmonics

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249(a) (d) (e) RSS-210 Section B.10
Basic standard	: ANSI C63.10: 2013
Limits	: FCC Part 15.249(a) (d) (e) & 15.209(a) RSS-210 Section B.10 (a) & (b) RSS-Gen Section 8.9
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2023-02-08
Input voltage	: AC120V/60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Note1: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

Note2: The host has 2.4G FLRC and 2.4GH Wi-Fi module, the Co-located radiated spurious emissions were preformed pre-can test and worst-case results were recorded.

For the measurement records, refer to the appendix B.

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5.1.3 20dB and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.215
RSS-Gen Section 6.7
Basic standard : ANSI C63.10: 2013
Limits : Within assigned band
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-02-08
Input voltage : AC120V/60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 23 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 Band Edge

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
RSS-210 Section B.10 (a) & (b)
RSS-Gen Section 8.9 & 8.10

Basic standard : ANSI C63.10: 2013

Limits : FCC Part 15.249(a) (d) (e) & 15.209 & 15.205
RSS-Gen Table 5 & 7

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2023-02-08

Input voltage : AC120V/60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: Refer to test result
Input voltage	: AC120V/60Hz
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 22 °C
Relative humidity	: 64 %
Atmospheric pressure	: 101 kPa

Note: The host has 2.4G FLRC and 2.4GH Wi-Fi, the Co-located mode were preformed pre-can test and recorded worst-case result.

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

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APPENDIX B.5: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	23
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, CO-LOCATION	25

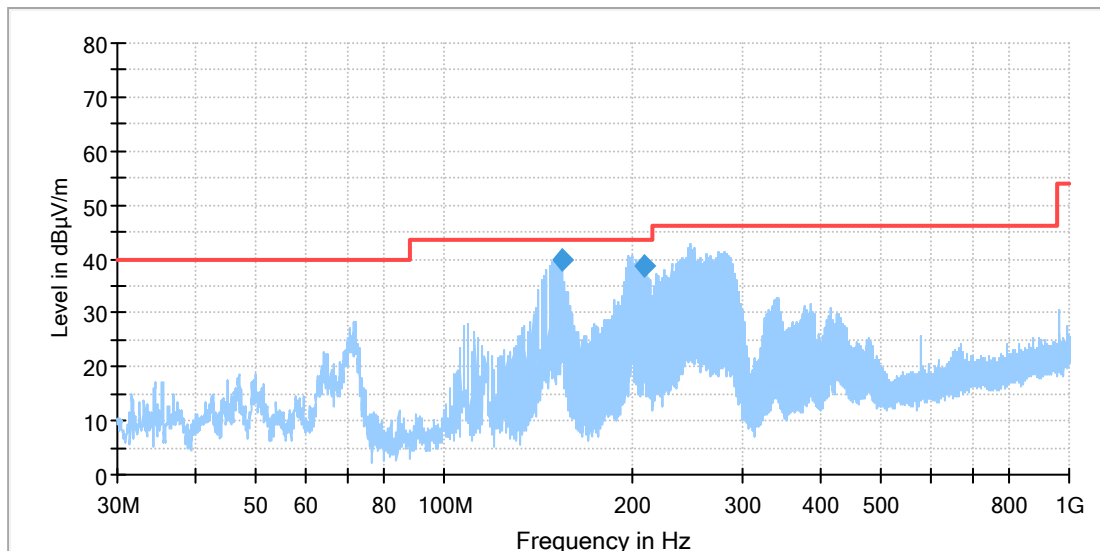
Appendix B.1: Test Results of Field strength of fundamental & harmonics

Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
30MHz - 1GHz

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.523462	28.35	40.00	11.65	100.0	H	355.0	-22.6
248.063462	42.85	46.00	3.15	100.0	H	102.0	-17.8
341.631154	32.89	46.00	13.11	100.0	H	151.0	-15.4
580.027308	25.60	46.00	20.40	100.0	H	143.0	-10.6
966.684231	30.49	54.00	23.51	100.0	H	143.0	-4.6

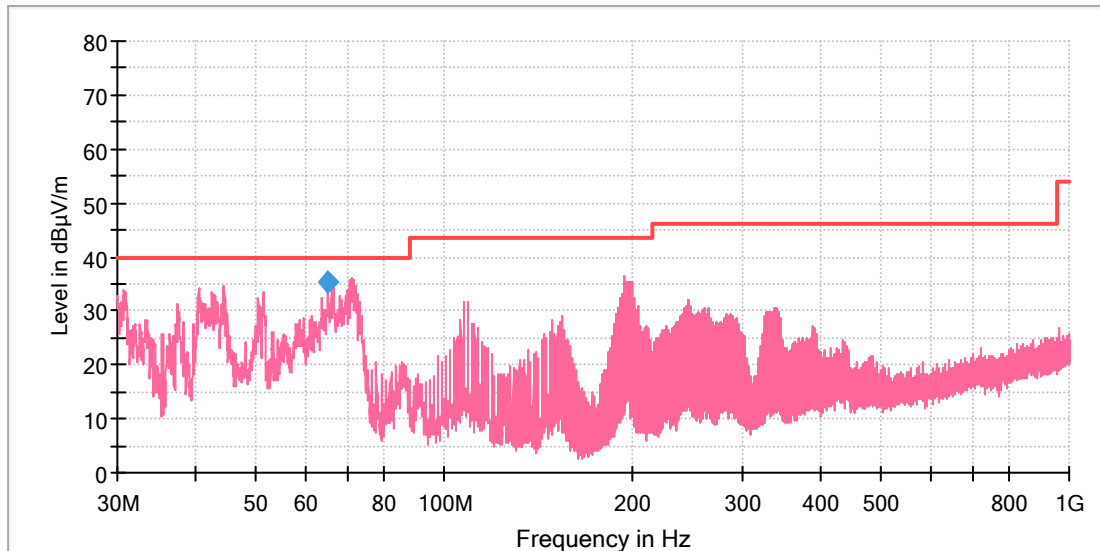
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
154.526231	39.96	43.50	3.54	105.0	H	230.0	-22.3
209.763501	38.64	43.50	4.86	100.0	H	30.0	-19.2

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.288846	34.75	40.00	5.25	100.0	V	220.0	-19.3
107.749231	31.49	43.50	12.01	100.0	V	91.0	-19.3
194.228462	36.29	43.50	7.21	100.0	V	172.0	-19.6
245.302692	32.04	46.00	13.96	100.0	V	0.0	-17.8
340.138846	30.52	46.00	15.48	100.0	V	228.0	-15.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
65.156154	35.35	40.00	4.65	100.0	V	242.0	-20.4

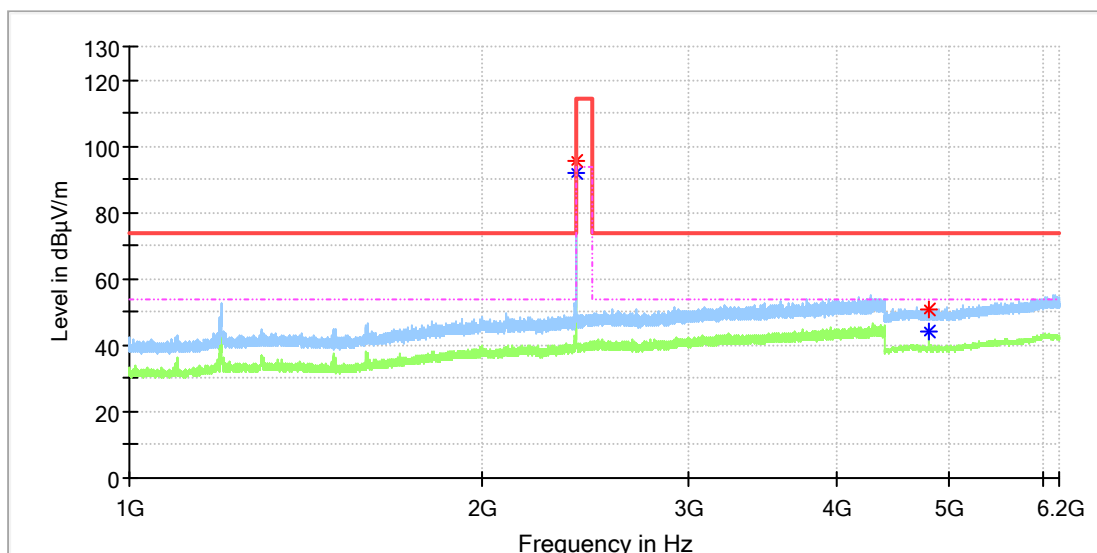
1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Fundamental.

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.480000	---	92.09	94.00	1.91	100.0	H	135.0	7.0
2402.330000	95.53	---	114.00	18.47	100.0	H	176.0	7.0
4804.000000	50.58	---	74.00	23.42	100.0	H	13.0	11.8
4804.000000	---	43.98	54.00	10.02	100.0	H	13.0	11.8

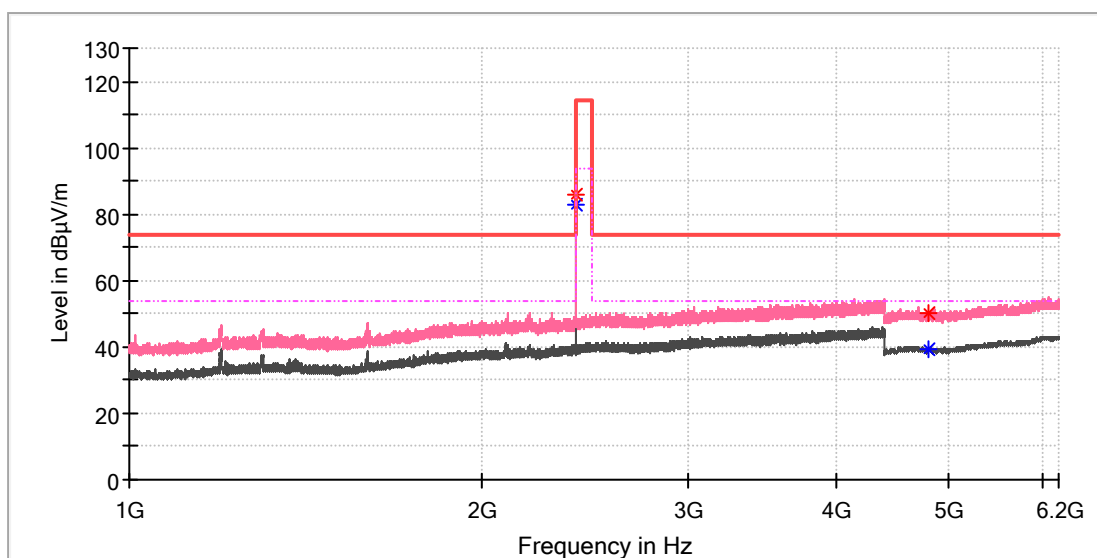
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No./Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.480000	---	82.70	94.00	11.30	100.0	V	233.0	7.0
2402.160000	86.14	---	114.00	27.86	100.0	V	233.0	7.0
4801.000000	---	39.44	54.00	14.56	100.0	V	0.0	11.8
4810.500000	50.35	---	74.00	23.65	100.0	V	298.0	11.8

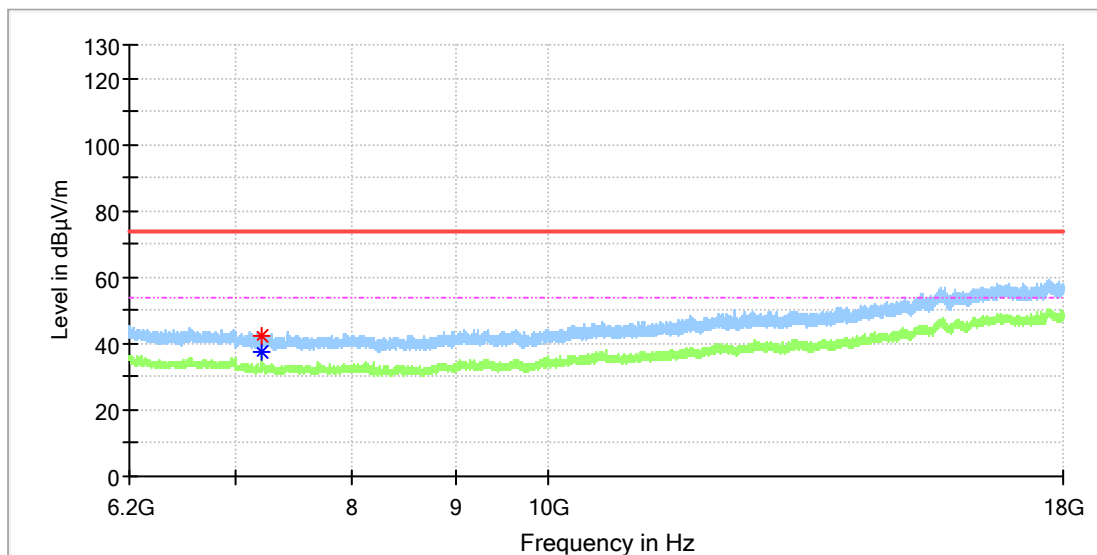
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	42.59	---	74.00	31.41	100.0	H	0.0	8.8
7205.950000	---	37.71	54.00	16.29	100.0	H	0.0	8.8

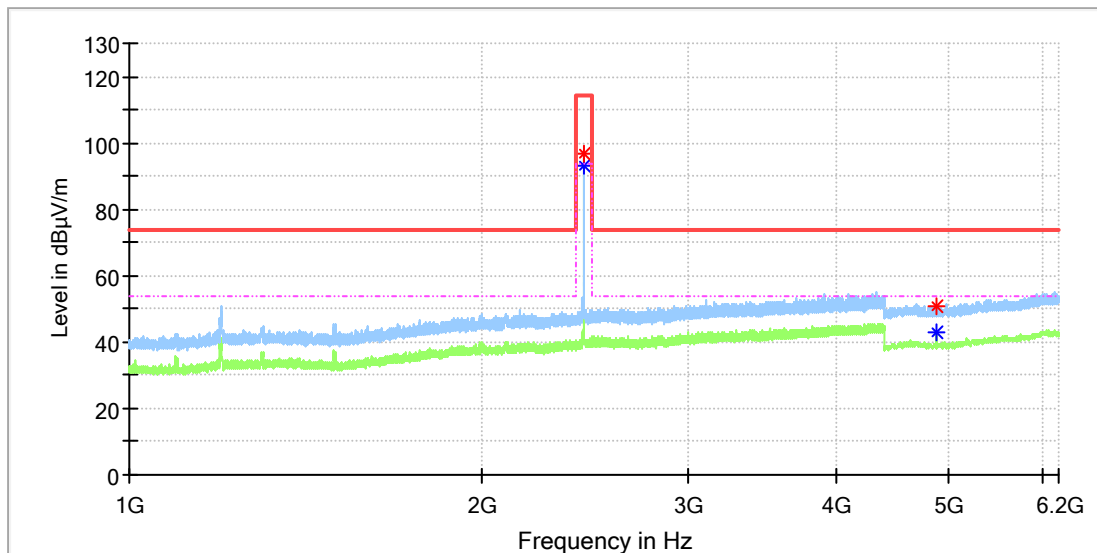
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.390000	---	92.88	94.00	1.12	100.0	H	331.0	7.4
2440.070000	96.55	---	114.00	17.45	100.0	H	331.0	7.4
4879.500000	50.64	---	74.00	23.36	100.0	H	183.0	11.8
4880.000000	---	42.73	54.00	11.27	100.0	H	183.0	11.8

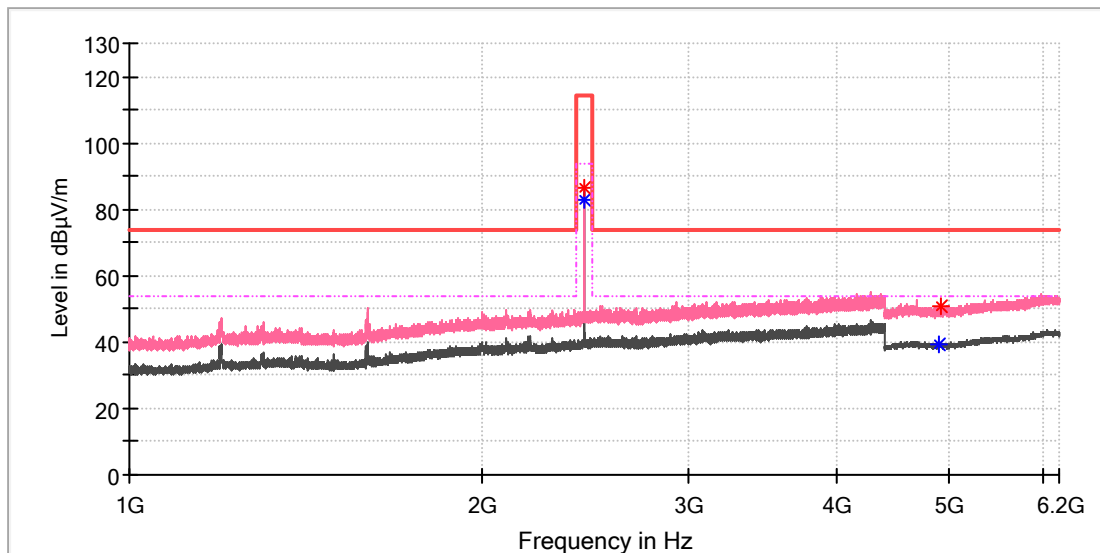
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.900000	86.60	---	114.00	27.40	100.0	V	220.0	7.4
2440.580000	---	82.69	94.00	11.31	100.0	V	230.0	7.4
4905.000000	---	39.60	54.00	14.40	100.0	V	61.0	11.8
4908.000000	50.75	---	74.00	23.25	100.0	V	0.0	11.8

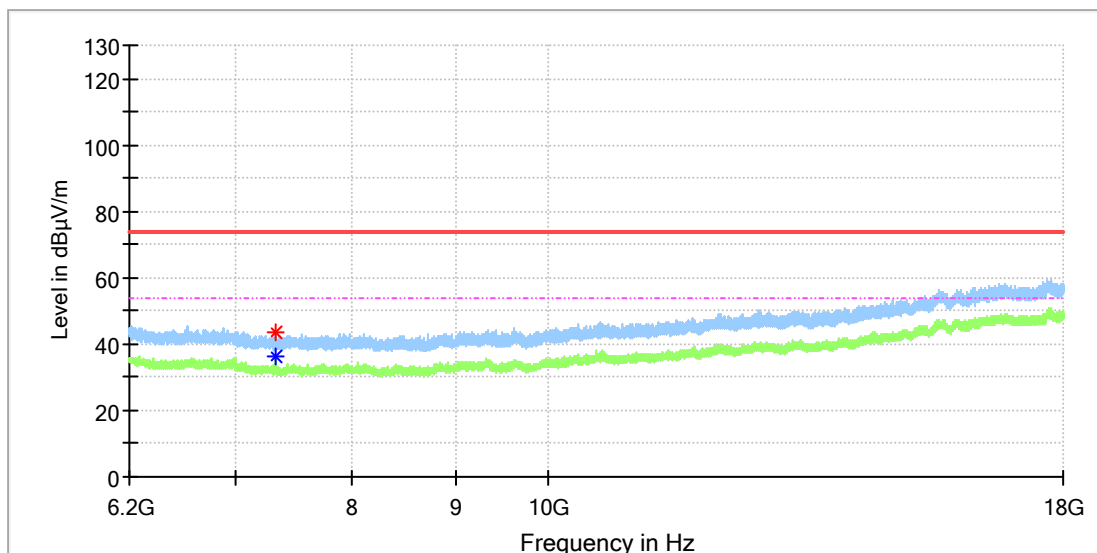
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	36.15	54.00	17.85	100.0	H	0.0	8.2
7320.508333	43.29	---	74.00	30.71	100.0	H	4.0	8.2

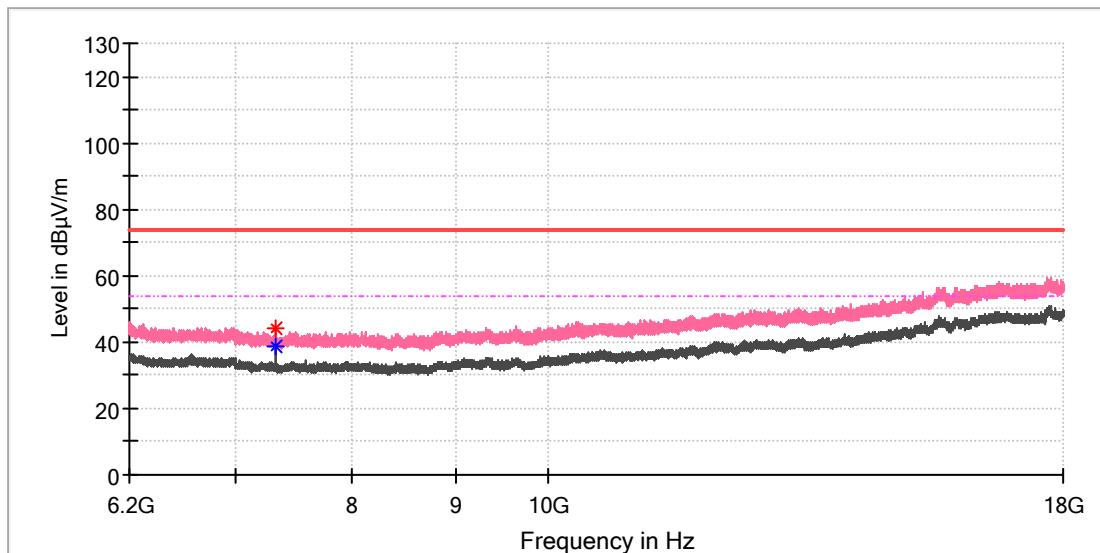
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.016667	43.94	---	74.00	30.06	100.0	V	220.0	8.2
7320.016667	---	38.50	54.00	15.50	100.0	V	220.0	8.2

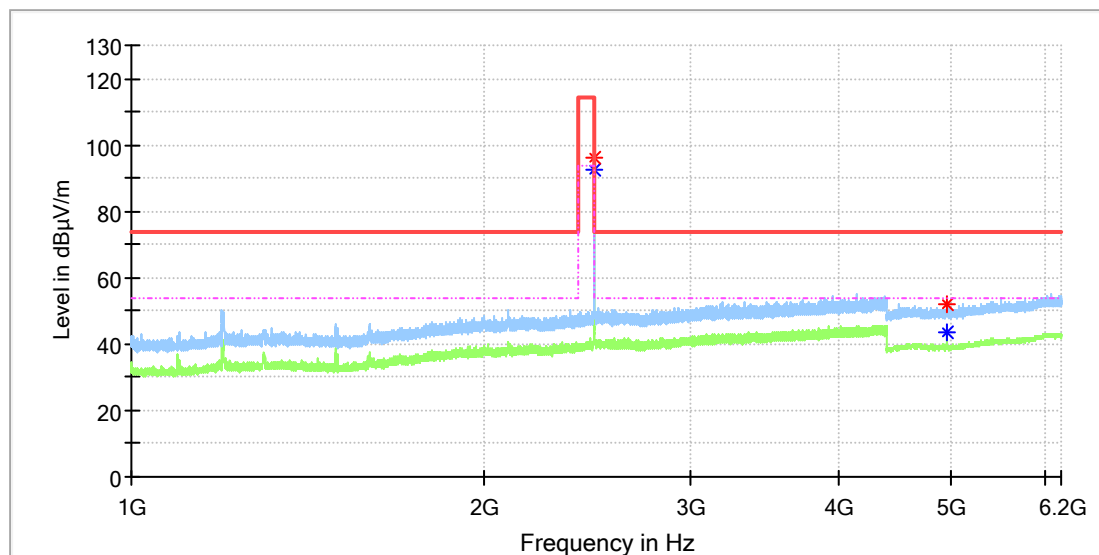
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.190000	96.37	---	114.00	17.63	100.0	H	193.0	7.4
2480.530000	---	92.78	94.00	1.22	100.0	H	193.0	7.4
4960.000000	---	43.41	54.00	10.59	100.0	H	179.0	11.8
4960.500000	51.81	---	74.00	22.19	100.0	H	344.0	11.8

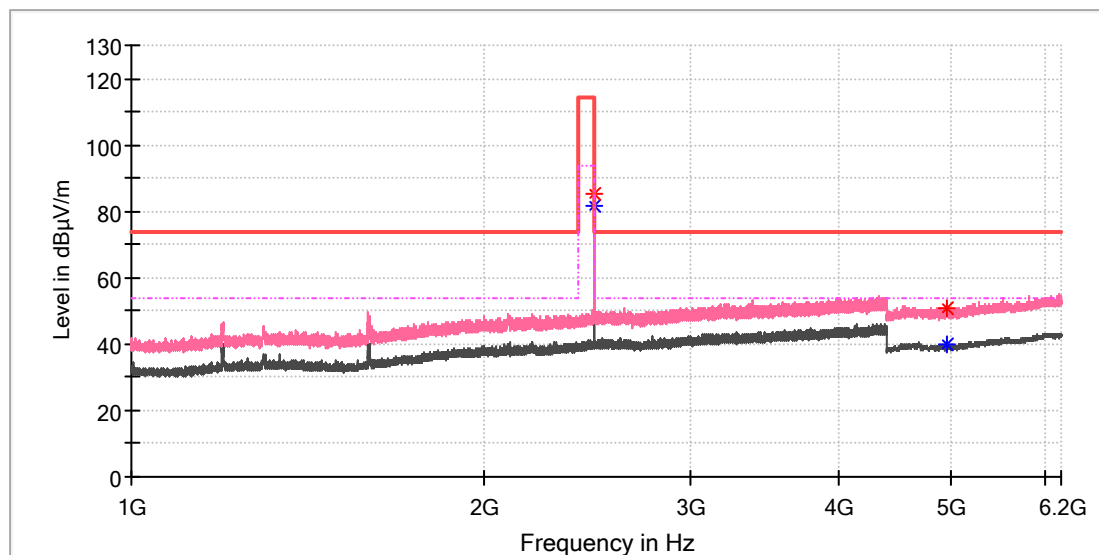
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2479.850000	85.06	---	114.00	28.94	100.0	V	47.0	7.4
2480.530000	---	81.83	94.00	12.17	100.0	V	231.0	7.4
4946.000000	50.49	---	74.00	23.51	100.0	V	84.0	11.8
4960.000000	---	40.12	54.00	13.88	100.0	V	231.0	11.8

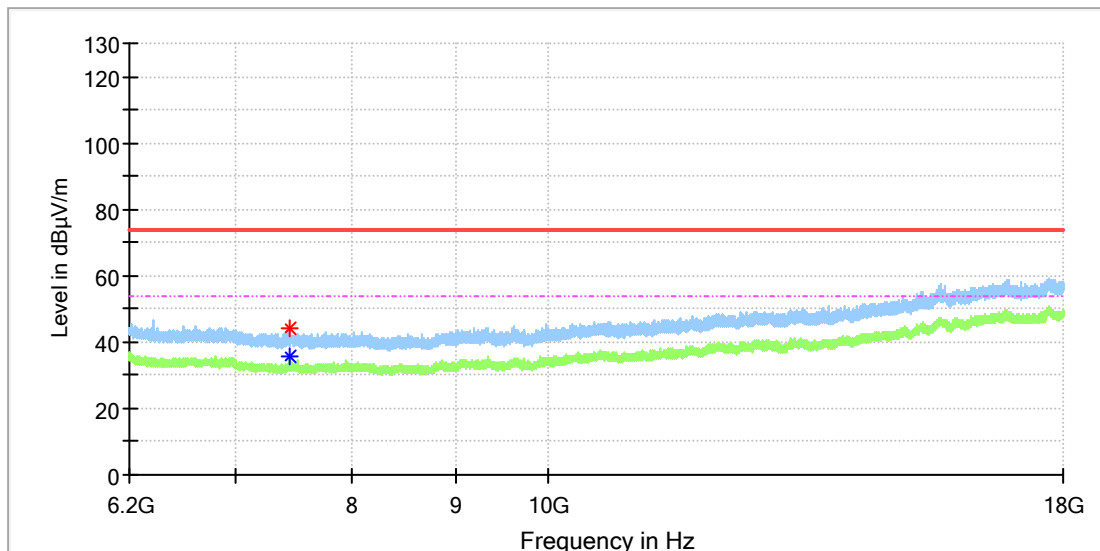
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	35.50	54.00	18.50	100.0	H	0.0	8.4
7440.475000	43.87	---	74.00	30.13	100.0	H	7.0	8.4

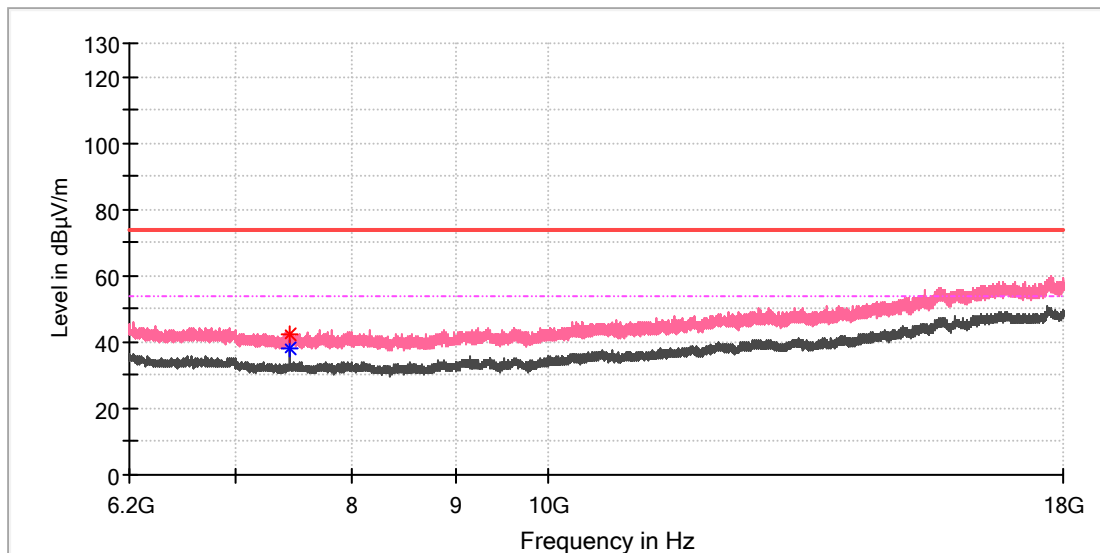
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



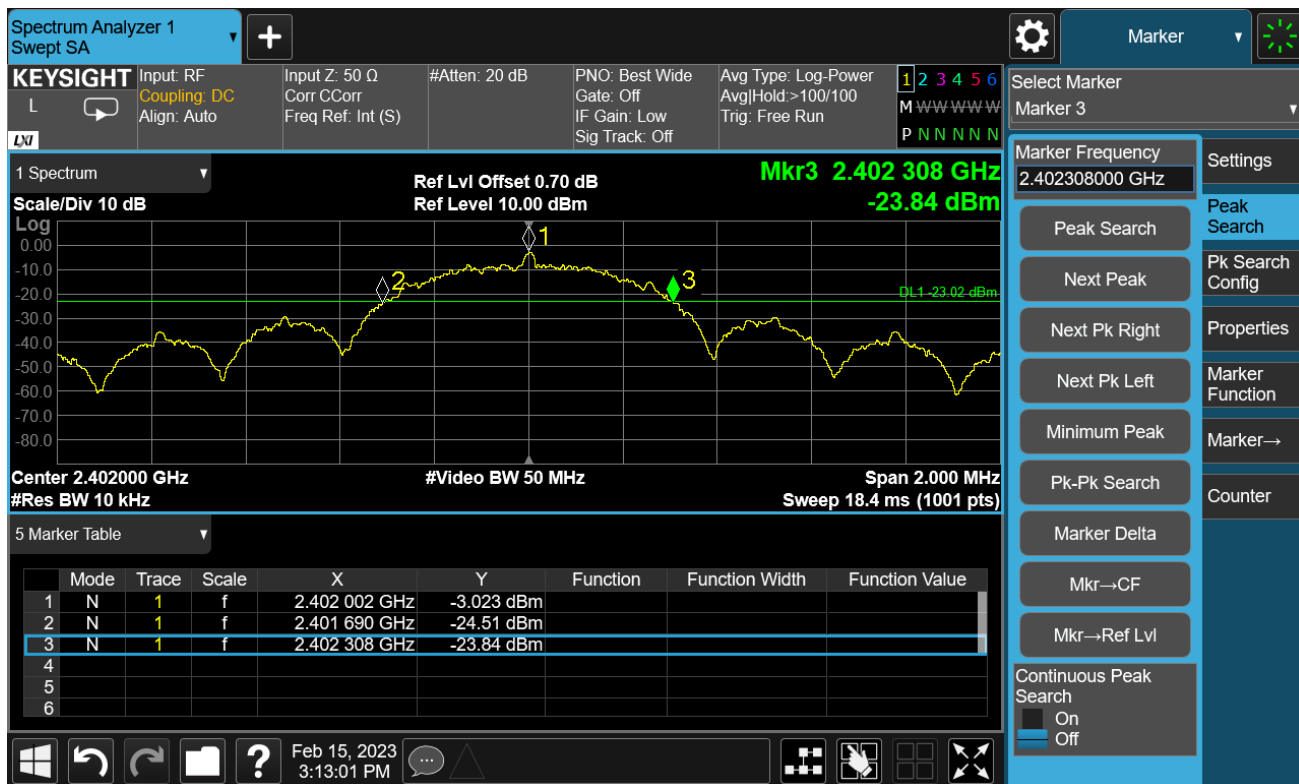
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	42.62	---	74.00	31.38	100.0	V	347.0	8.4
7439.983333	---	38.07	54.00	15.93	100.0	V	292.0	8.4

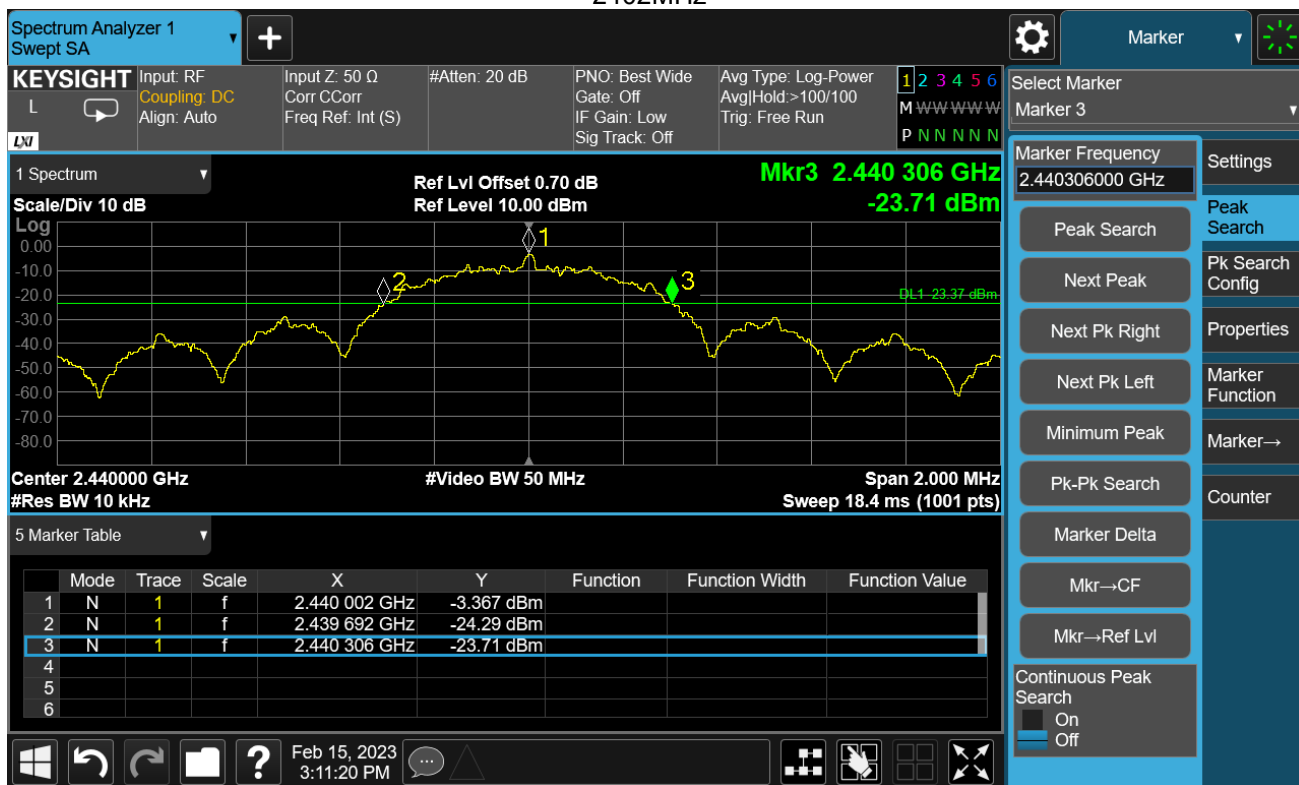
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

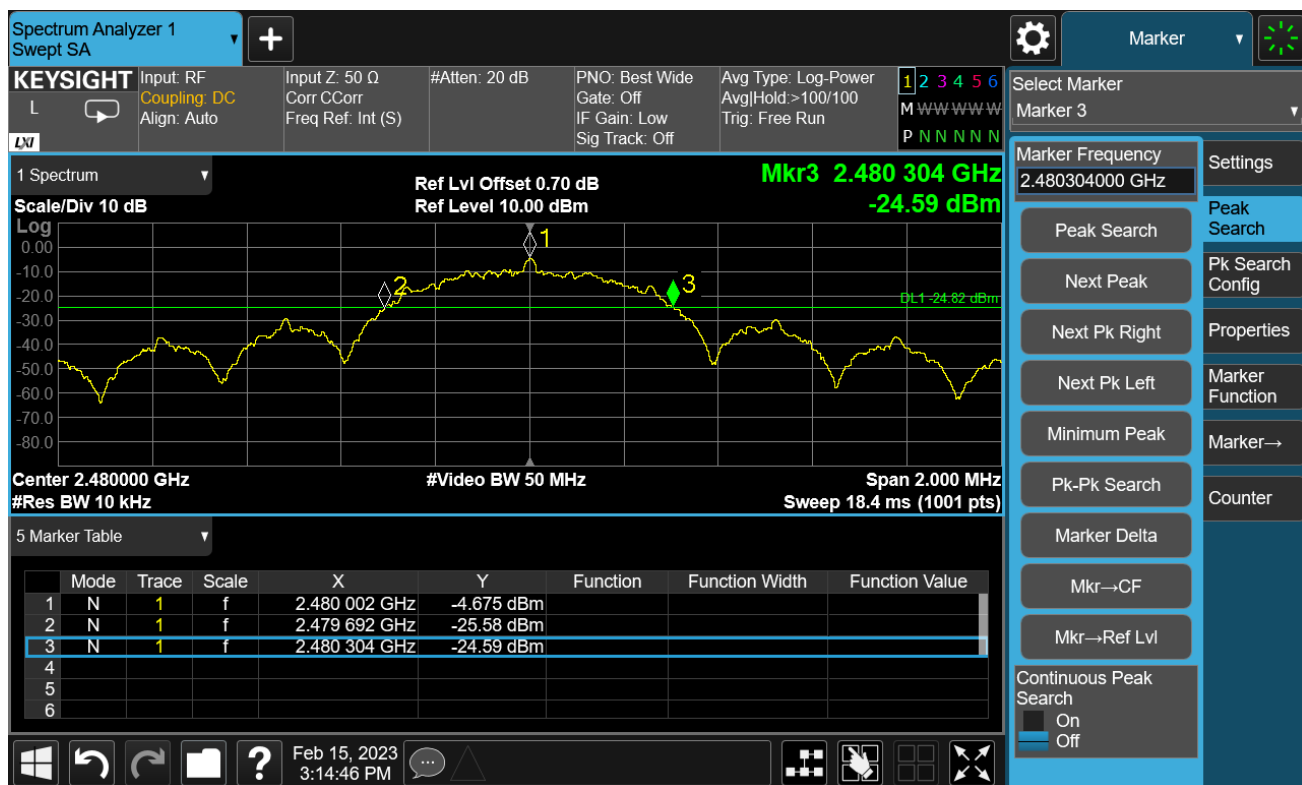
Appendix B.2: Test Results of 20dB Bandwidth



2402MHz

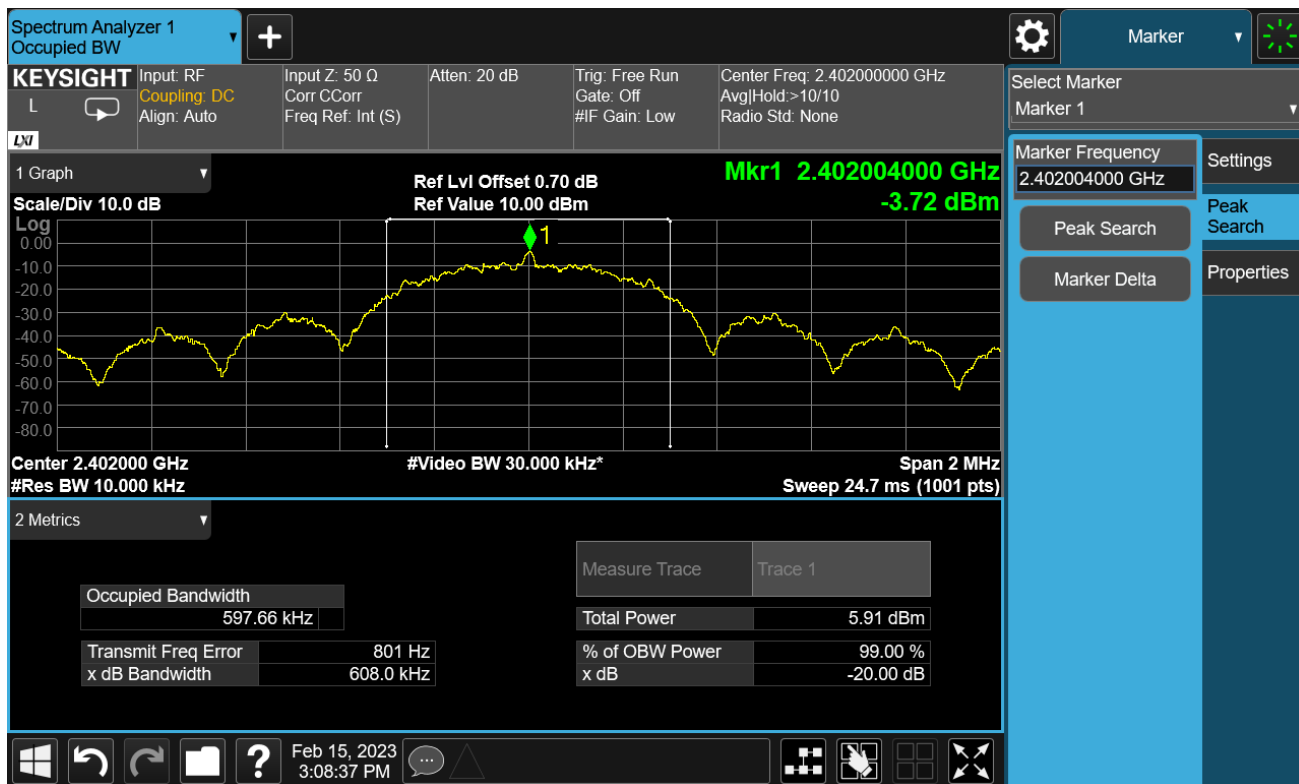


2440MHz

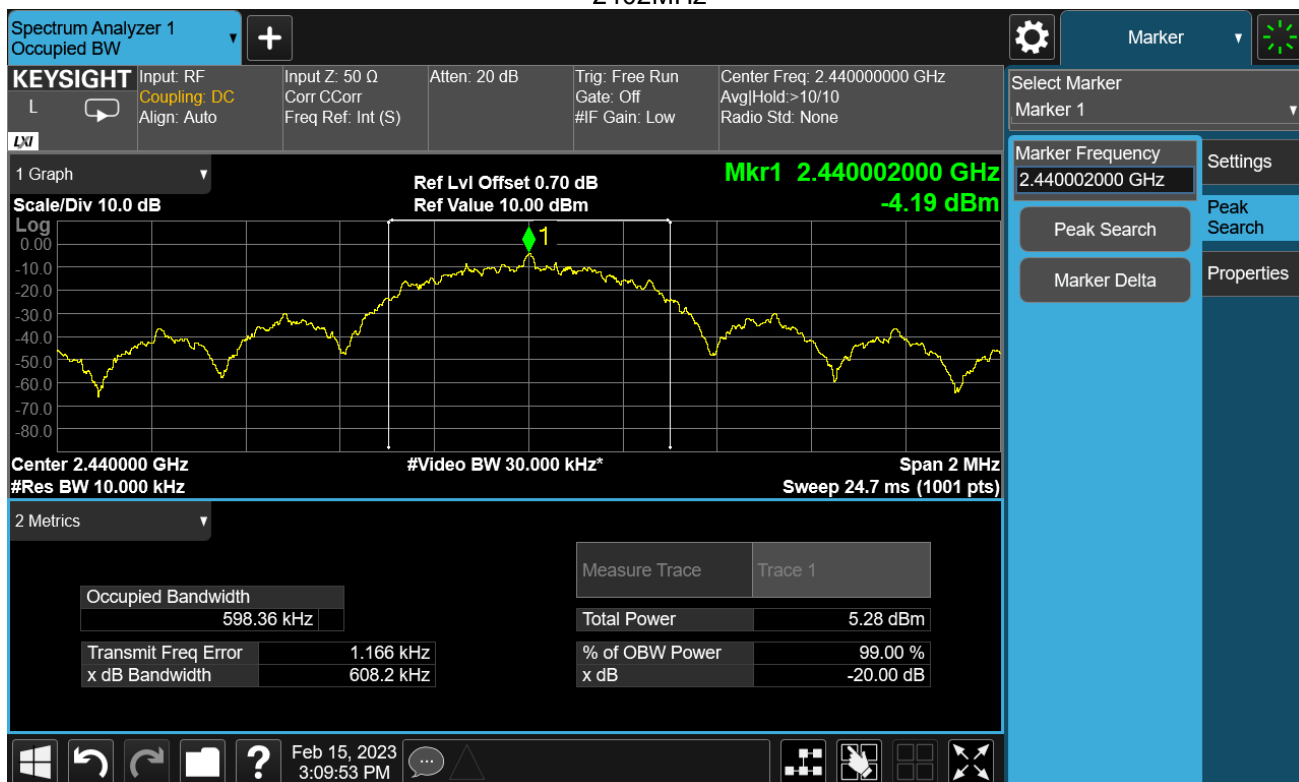


2480MHz

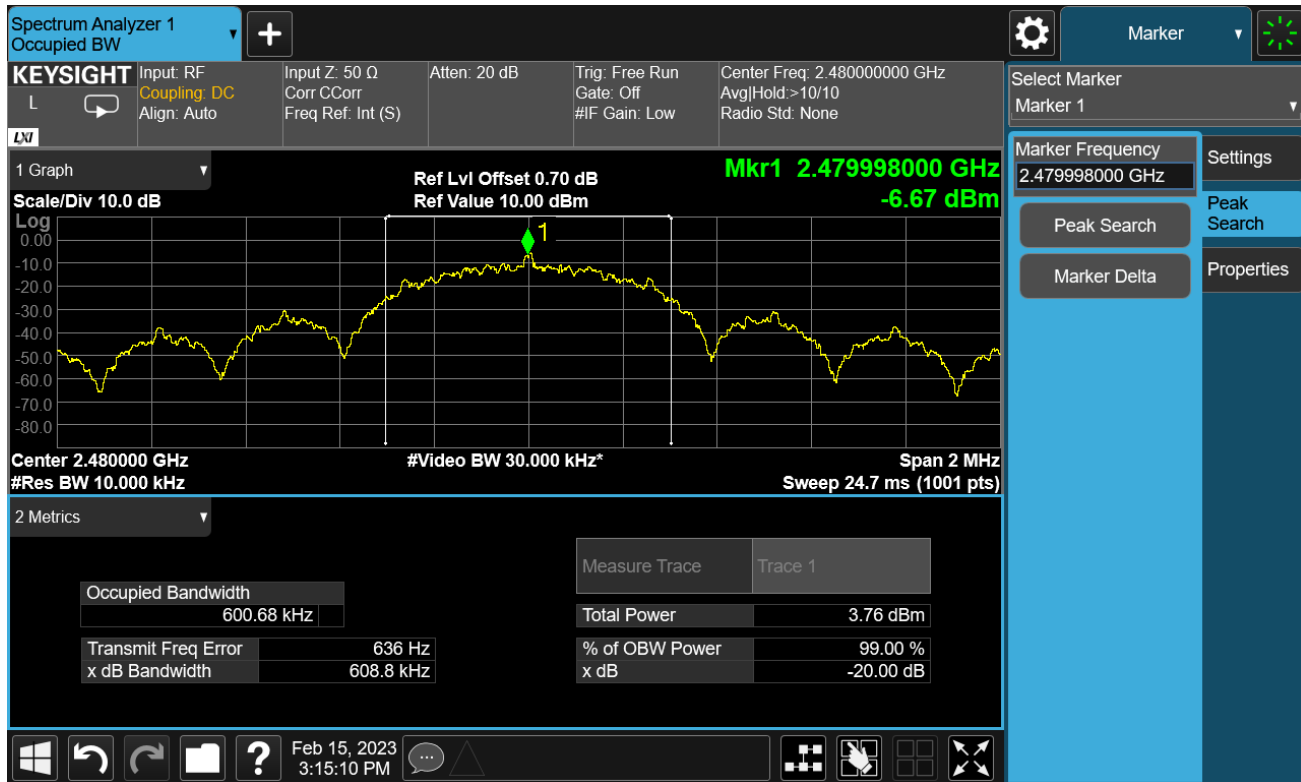
Appendix B.3: Test Results of 99% Bandwidth



2402MHz



2440MHz



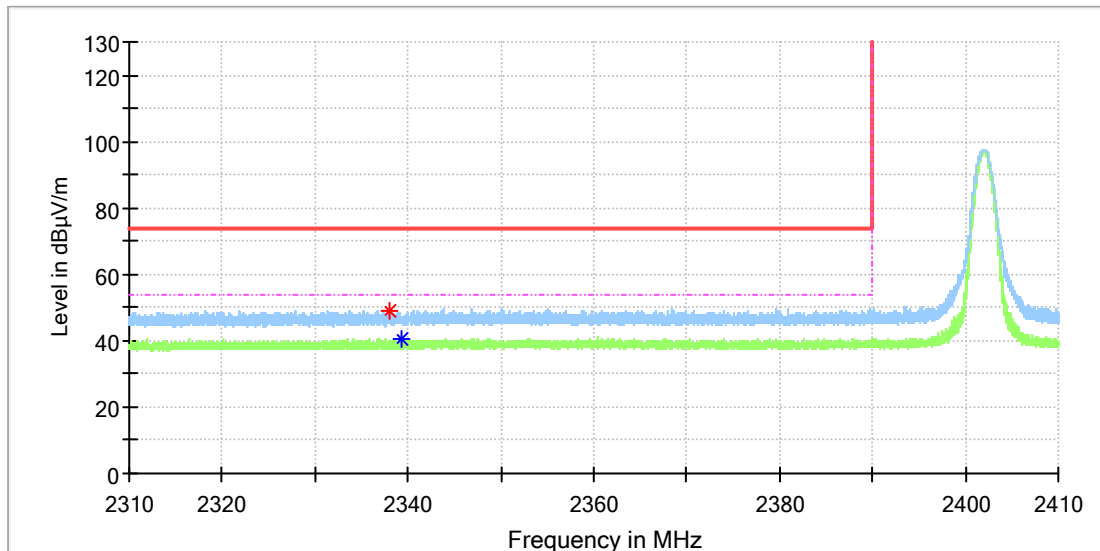
2480MHz

Appendix B.4: Test Results of Band Edge

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2338.110000	49.20	---	74.00	24.80	100.0	H	0.0	6.8
2339.250000	---	40.68	54.00	13.32	100.0	H	128.0	6.8

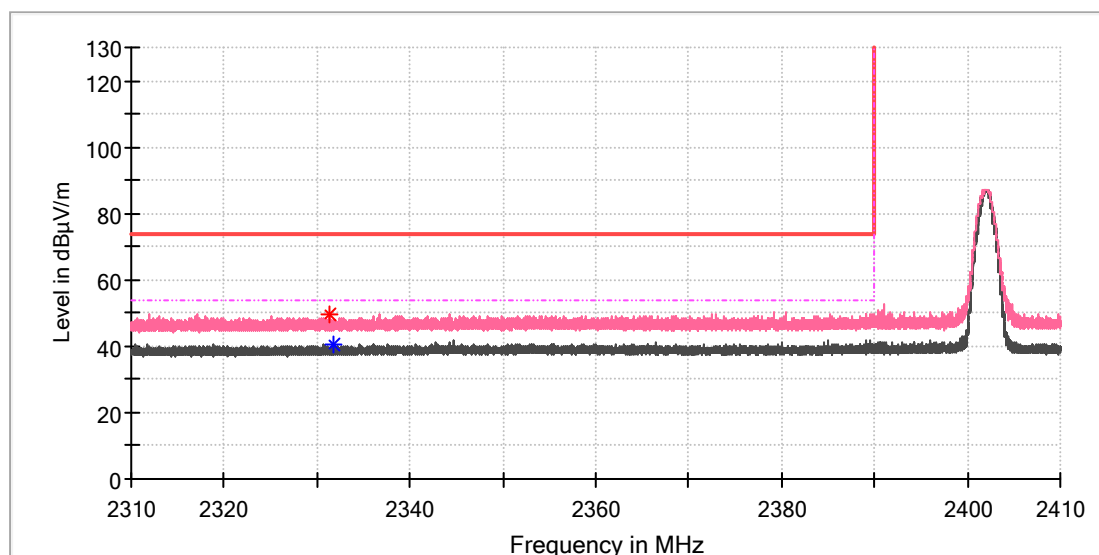
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2331.360000	49.45	---	74.00	24.55	100.0	V	26.0	6.7
2331.780000	---	40.33	54.00	13.67	100.0	V	305.0	6.7

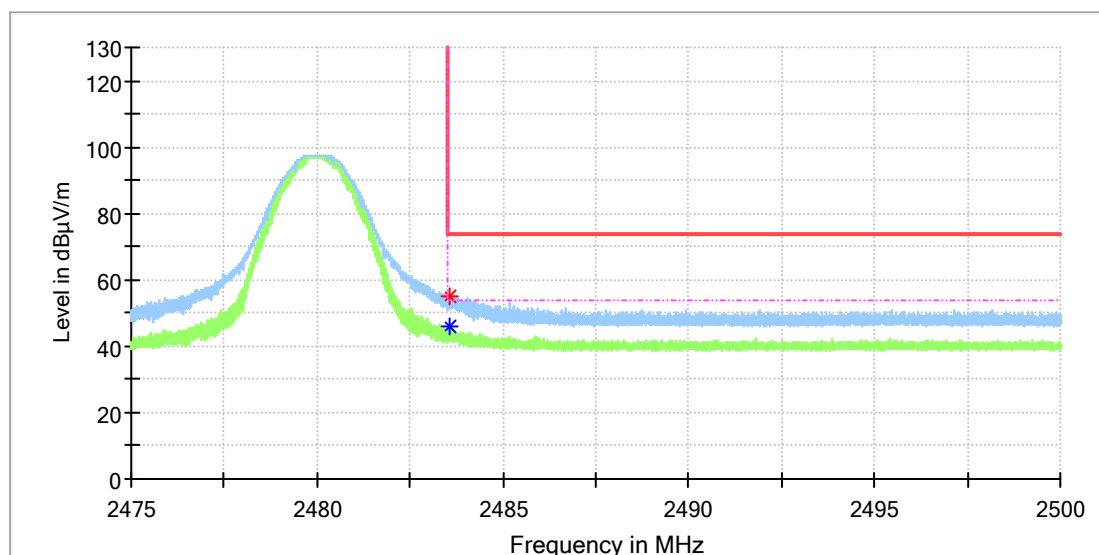
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.573750	---	45.80	54.00	8.20	100.0	H	194.0	7.4
2483.581250	55.30	---	74.00	18.70	100.0	H	183.0	7.4

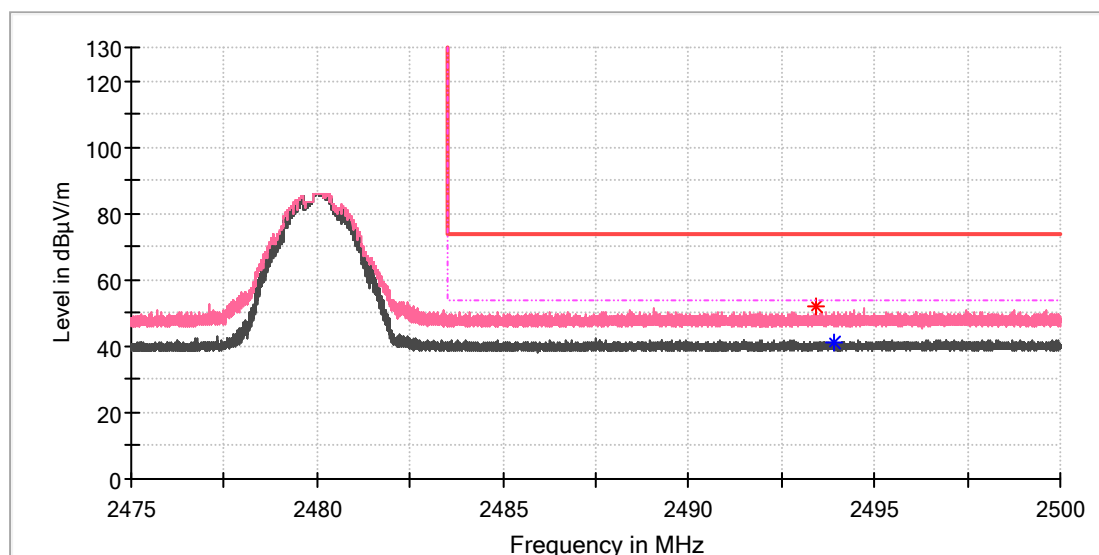
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Model: GW2-Ethernet/WiFi
 Test Mode: FRLC
 Order No/Sample No: 168403102/A003389847-002
 Test Voltage:: 120V/60Hz
 Remark: Temp 22 Humi:52%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2493.431250	51.96	---	74.00	22.04	100.0	V	243.0	7.4
2493.917500	---	41.38	54.00	12.62	100.0	V	232.0	7.4

Final Result

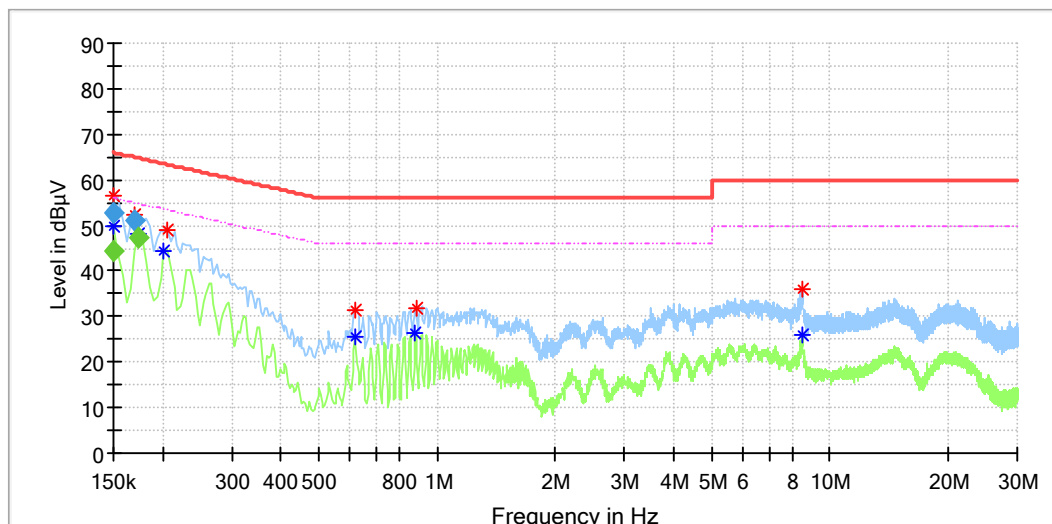
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix B.5: Test Results of Conducted Emission on AC Mains

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Order Number: 168403102
Model: GW2-Ethernet/WiFi
Test Mode: Normal operational mode(FRLC+WIFI operating)
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15.207
Test By./Review By: Dawn Shen/Gary Chen
Tem./Hum./Pressure: 23.2°C/50.6%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150000	56.31	---	65.78	9.47	L1	9.9
0.150000	---	49.88	56.00	6.12	L1	9.9
0.169500	52.24	---	64.96	12.72	L1	9.9
0.173500	---	48.25	54.77	6.52	L1	9.9
0.202000	---	44.19	53.53	9.34	L1	9.9
0.206000	48.84	---	63.37	14.53	L1	9.9
0.618000	---	25.44	46.00	20.56	L1	10.0
0.618000	31.56	---	56.00	24.44	L1	10.0
0.882000	---	26.28	46.00	19.72	L1	10.0
0.886000	32.02	---	56.00	23.98	L1	10.0
8.478000	35.82	---	60.00	24.18	L1	10.3
8.490000	---	26.06	50.00	23.94	L1	10.3

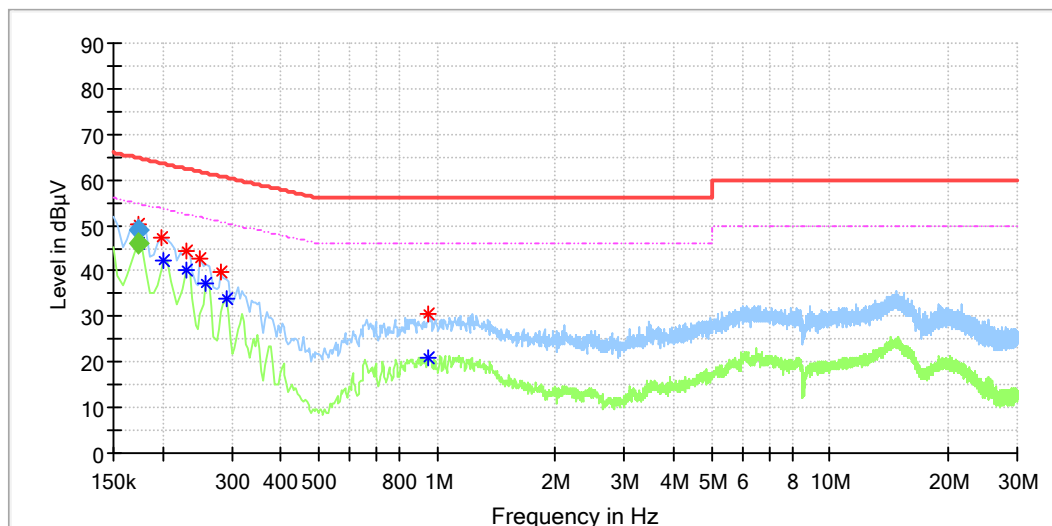
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	44.38	56.00	11.62	1000.0	9.000	L1	9.9
0.150000	52.65	---	66.00	13.35	1000.0	9.000	L1	9.9
0.169500	51.09	---	64.99	13.89	1000.0	9.000	L1	9.9
0.173500	---	47.50	54.79	7.29	1000.0	9.000	L1	9.9

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
 Order Number: 168403102
 Model: GW2-Ethernet/WiFi
 Test Mode: Normal operational mode(FRLC+WIFI operating)
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15.207
 Test By:/Review By: Dawn Shen/Gary Chen
 Tem./Hum./Pressure: 23.2°C/50.6%/101kPa
 Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.173500	50.44	---	64.77	14.33	N	9.8
0.173500	---	45.95	54.77	8.82	N	9.8
0.198000	47.47	---	63.69	16.22	N	9.8
0.202000	---	42.28	53.53	11.25	N	9.8
0.230000	---	40.29	52.45	12.16	N	9.8
0.230000	44.27	---	62.45	18.18	N	9.8
0.250000	42.73	---	61.76	19.03	N	9.8
0.258000	---	37.09	51.50	14.40	N	9.8
0.282000	39.79	---	60.76	20.97	N	9.8
0.290000	---	33.73	50.52	16.79	N	9.8
0.946000	---	21.13	46.00	24.87	N	9.8
0.950000	30.57	---	56.00	25.43	N	9.8

Final Result

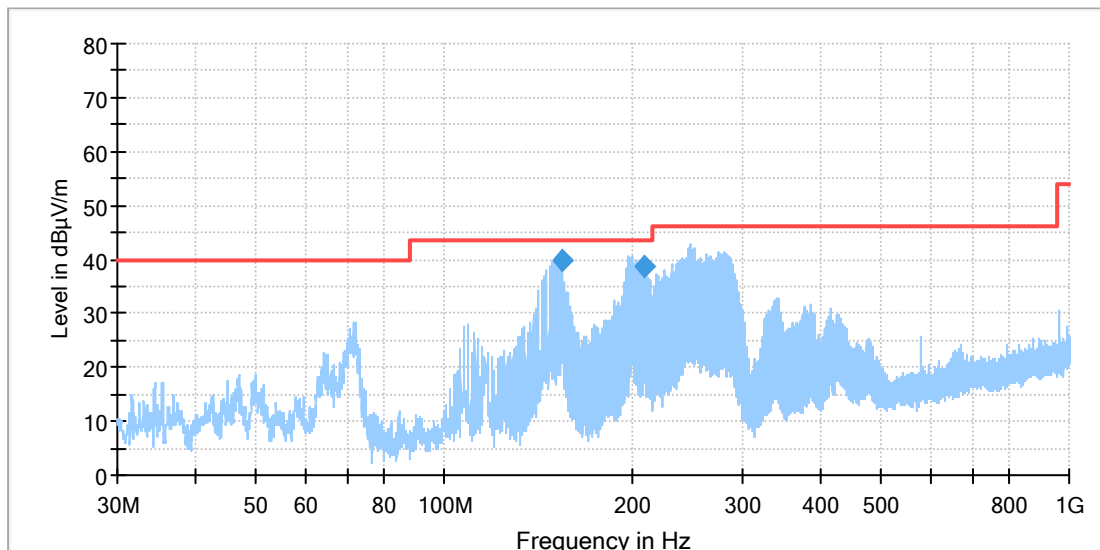
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.173500	---	45.94	54.79	8.86	1000.0	9.000	N	9.8
0.173500	49.02	---	64.79	15.77	1000.0	9.000	N	9.8

Appendix B.6: Test Results of Radiated Spurious Emissions, Co-location

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC+2.4G Wi-Fi
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.523462	28.35	40.00	11.65	100.0	H	355.0	-22.6
248.063462	42.85	46.00	3.15	100.0	H	102.0	-17.8
341.631154	32.89	46.00	13.11	100.0	H	151.0	-15.4
580.027308	25.60	46.00	20.40	100.0	H	143.0	-10.6
966.684231	30.49	54.00	23.51	100.0	H	143.0	-4.6

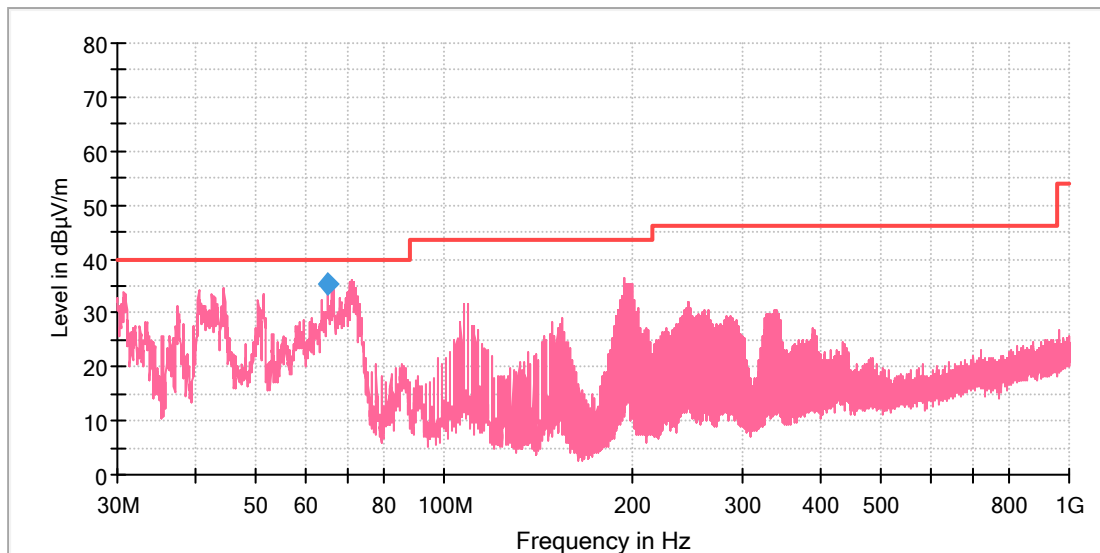
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
154.526231	39.96	43.50	3.54	105.0	H	230.0	-22.3
209.763501	38.64	43.50	4.86	100.0	H	30.0	-19.2

Test Report

EUT Information

EUT Name: Activetag Edge Gateway
Model: GW2-Ethernet/WiFi
Test Mode: FRLC+2.4G Wi-Fi
Order No/Sample No: 168403102/A003389847-002
Test Voltage:: 120V/60Hz
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.288846	34.75	40.00	5.25	100.0	V	220.0	-19.3
107.749231	31.49	43.50	12.01	100.0	V	91.0	-19.3
194.228462	36.29	43.50	7.21	100.0	V	172.0	-19.6
245.302692	32.04	46.00	13.96	100.0	V	0.0	-17.8
340.138846	30.52	46.00	15.48	100.0	V	228.0	-15.4

Final_Result

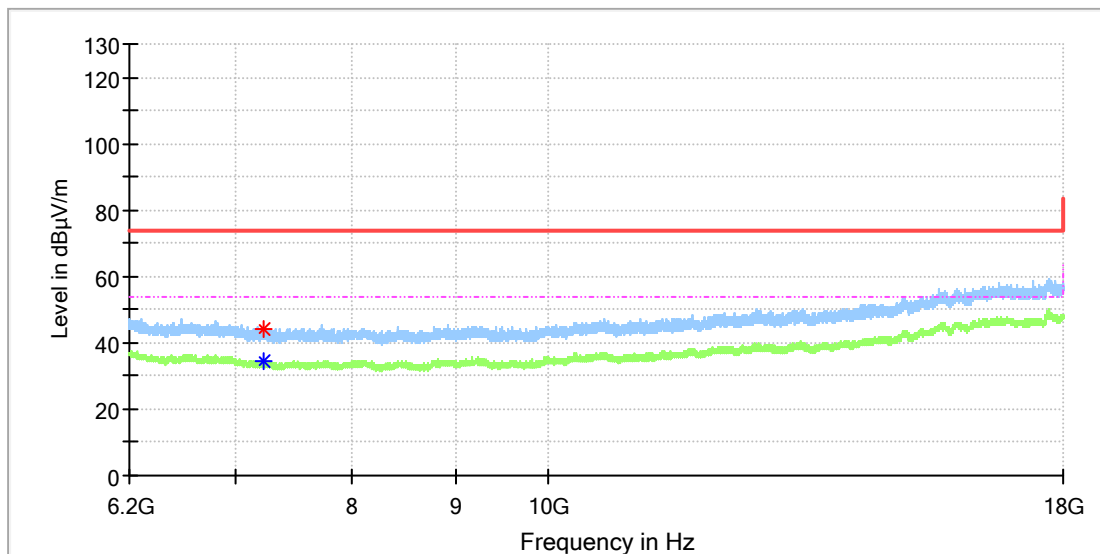
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
65.156154	35.35	40.00	4.65	100.0	V	242.0	-20.4

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	120.0	0.0	3.0	V	0.0	0.0

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC+2.4G Wi-Fi
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7232.991667	---	34.50	54.00	19.50	100.0	H	2.0	8.6
7234.958333	44.09	---	74.00	29.91	100.0	H	180.0	8.6

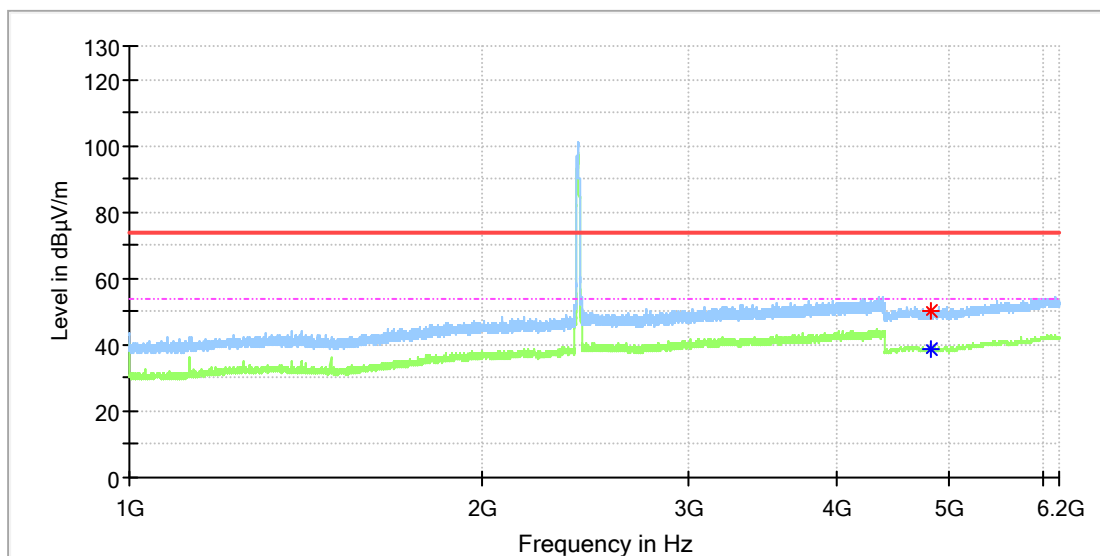
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.5	120.5	120.5	0.0	1.0	h	135	0.0

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC+2.4G Wi-Fi
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4822.000000	50.38	---	74.00	23.62	100.0	H	325.0	11.8
4823.500000	---	38.97	54.00	15.03	100.0	H	0.0	11.8

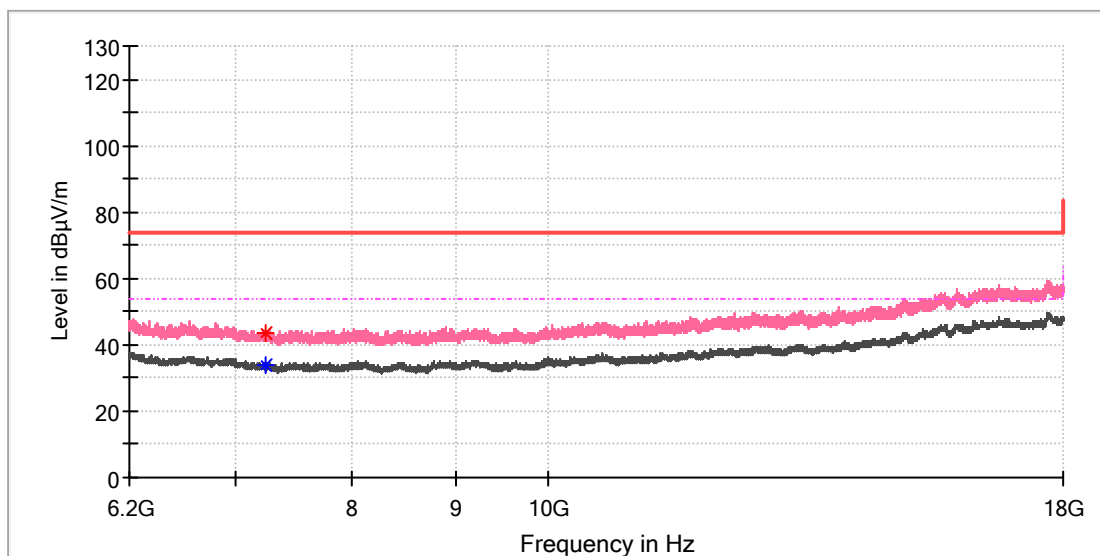
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	119.0	0.0	1.0	V	0	0.0

Test Report

EUT Information

EUT Name:	Activetag Edge Gateway
Model:	GW2-Ethernet/WiFi
Test Mode:	FRLC+2.4G Wi-Fi
Order No/Sample No:	168403102/A003389847-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7236.433333	---	34.02	54.00	19.98	100.0	V	52.0	8.6
7236.433333	43.57	---	74.00	30.43	100.0	V	52.0	8.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.5	118.0	120.0	118.0	2.0	1.0	Pol	135	0.0