

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22KSHE 001	Auftrags-Nr.: <i>Order no.:</i>	168371162	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-04-01	
Auftraggeber: <i>Client:</i>	Shenzhen RAKwireless Technology Co.,Ltd. Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, P.R. China			
Prüfgegenstand: <i>Test item:</i>	WisGate Edge Lite 2			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RAK7268V2H, RAK7268CV2H (Trademark: RAK, Arduino)			
Auftrags-Inhalt: <i>Order content:</i>	Type Test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 ICES-003 Issue 7 October 2020			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-05-11	Refer to photos documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003257041-001 to 003 A003257041-008 to 015			
Prüfzeitraum: <i>Testing period:</i>	2022-06-02 – 2022-06-22			
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>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-06-29	Ausstellungsdatum: <i>Issue date:</i> 2022-06-30			
Stellung / Position	Assistant Project Manager	Stellung / Position	Department Manager	
Sonstiges / Other:	FCC ID: 2AF6B-RAK7268CV2H			
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:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht 5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1 Conducted emissions
RESULT: Pass
5.2 Radiated emissions
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: Test result.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069, CAB identifier: CN0078

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radiated Emission Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2022-12-01
Horn Antenna	R&S	HF907	102706	2022-08-07
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2022-08-13
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2022-09-08
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2022-12-12
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Conducted Emissions testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2022-08-10
Artificial Mains Network	R&S	ENV216	102333	2022-08-10
Impedance Stabilisation Network	R&S	ENY81	100323	2022-08-11
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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 and conducted emissions measurements as below table

Test	Parameters	uncertainty
Conducted Emission	Conducted emission 150kHz-30MHz (AMN)	± 3.70 dB ± 3.30 dB
Radiated Emission (3m SAC)	Radiated emission 30MHz-1GHz	± 4.52 dB
	Radiated emission 1GHz-18GHz	± 4.37 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 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 EUTs are a WisGate Edge Lite 2, which supports 2.4GHz Wi-Fi, BLE, Lora and/or LTE functions.

For model: RAK7268V2H

Note: This product contains transmitter modules, the Lora module is optional.

2.4GHz Wi-Fi module Model: RAK634	Contains FCC ID: 2AF6B-RAK634 Contains IC: 25908-RAK634
BLE module Model: RAK13400	Contains FCC ID: 2AF6B-RAK13400 Contains IC: 25908-RAK13400
Lora module Model: RAK5146	Contains FCC ID: 2AF6B-RAK5146 Contains IC: 25908-RAK5146
Lora module Model: RAK2287X	Contains FCC ID: 2AF6B-RAK2287X Contains IC: 25908-RAK2287X

For model: RAK7268CV2H

Note: This product contains transmitter modules, the Lora module is optional.

LTE module Model: EG95-NA	Contains FCC ID: XMR201807EG95NA Contains IC: 10224A-2018EG95NA
2.4GHz Wi-Fi module Model: RAK634	Contains FCC ID: 2AF6B-RAK634 Contains IC: 25908-RAK634
BLE module Model: RAK13400	Contains FCC ID: 2AF6B-RAK13400 Contains IC: 25908-RAK13400
Lora module Model: RAK5146	Contains FCC ID: 2AF6B-RAK5146 Contains IC: 25908-RAK5146
Lora module Model: RAK2287X	Contains FCC ID: 2AF6B-RAK2287X Contains IC: 25908-RAK2287X

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	WisGate Edge Lite 2
Type Designation	RAK7268V2H, RAK7268CV2H
Trade Mark	RAK, Arduino
FCC ID	2AF6B-RAK7268CV2H
Input Voltage	DC 12V via AC/DC Adapter or DC 37 ~57V via POE adapter
Testing Voltage	AC 120V, 60Hz or DC 48V
AC/DC Adapter information	Model #1: AD-0241200200US-1 Model #2: PSY1202000US Model #3: PSYC1202000 Rating for all models: Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 12.0V, 2A 24.0W Note: Model #2 is identical with model # 3 except the type of plug.

3.3 Independent Operation Modes

The basic operation modes are:

A, On, WIFI link + BLE link + Lora link , powered by AC adapter

B, On, WIFI link + BLE link + Lora link, powered by POE adapter

C, Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Block Diagram
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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 testing were performed according to the procedures in ANSI C63.4: 2014.

According to clause 3.1, all test were applied on model RAK7268V2H & RAK7268CV2H with AC/DC Adapter #1 & #3.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial Number or Rating
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166305
Portable Laptop	Lenovo	ThinkPad T480	10Q67059
POE Adapter	RAK	R012-4800500	Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 48.0V, 0.5A 24.0W

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)

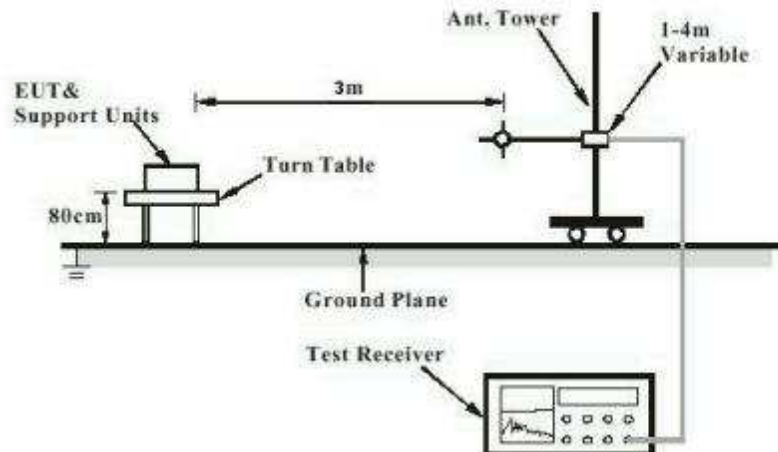


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

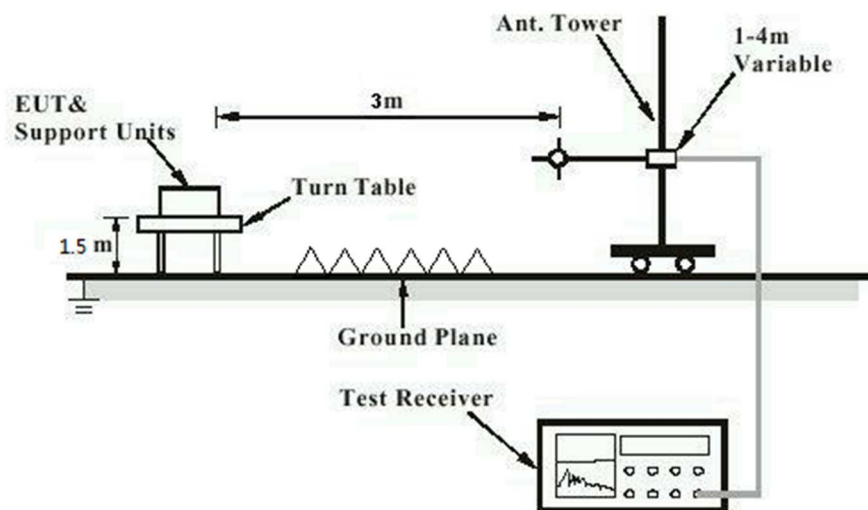
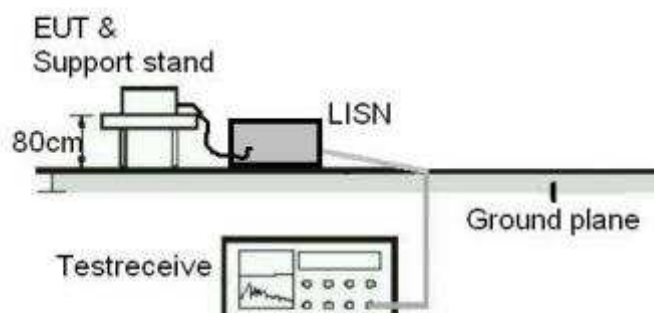


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Conducted emissions

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.107(a) ICES-003 Issue 7, Clause 3.2.1
Basic standard	: ANSI C63.4: 2014
Frequency range	: 150KHz - 30MHz
Classification	: Class B
Limit	: FCC Part 15.107(a) & ICES-003 Table 1
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-06-02 to 2022-06-22
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Earthing	: Not Connected
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: 101 kPa

For the measurement records, refer to appendix A, only the worst case mode are shown in this report.

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5.2 Radiated Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.109(a) ICES-003 Issue 7, Clause 3.2.2
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30MHz to 5 th highest fundamental frequency
Classification	: Class B
Limit	: FCC Part 15.109(a) ICES-003 Table 2 & Table 4
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 2022-06-02 to 2022-06-22
Input voltage	: AC 120V, 60Hz or DC 48V
Operation mode	: A, B
Earthing	: Not Connected
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: 101 kPa

For the measurement records, refer to appendix A, only the worst case mode are shown in this report.

Remark 1: The limit of below radiated emission test data is from FCC part 15.109, it also meet the limit of ICES-003 issue 7.

Remark 2: The host (RAK7268V2H) has been evaluated according to modular: WisLink LPWAN Concentrator with C2PC (FCC ID: 2AF6B-RAK2287X) procedure in test report CN22AG77 001, and the Radiated Spurious Emissions was carried out within frequency range 9 kHz to the fifth harmonics, refer to CN22AG77 001 for details of measurement results.

Remark 3: The host (RAK7268V2H) has been evaluated according to modular: WisLink LPWAN Concentrator with C2PC (FCC ID: 2AF6B-RAK5146) procedure in test report CN22SLLJ 001, and the Radiated Spurious Emissions was carried out within frequency range 9 kHz to the fifth harmonics, refer to CN22SLLJ 001 for details of measurement results.

Remark 4: The host (RAK7268CV2H) has been evaluated according to modular: WisLink LPWAN Concentrator with C2PC (FCC ID: 2AF6B-RAK2287X) procedure in test report CN22CATP 001, and the Radiated Spurious Emissions was carried out within frequency range 9 kHz to the fifth harmonics, refer to CN22CATP 001 for details of measurement results.

Remark 5: The host (RAK7268CV2H) has been evaluated according to modular: WisLink LPWAN Concentrator with C2PC (FCC ID: 2AF6B-RAK5146) procedure in test report CN223ZEA 001, and the Radiated Spurious Emissions was carried out within frequency range 9 kHz to the fifth harmonics, refer to CN223ZEA 001 for details of measurement results.

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Appendix A

Test Results

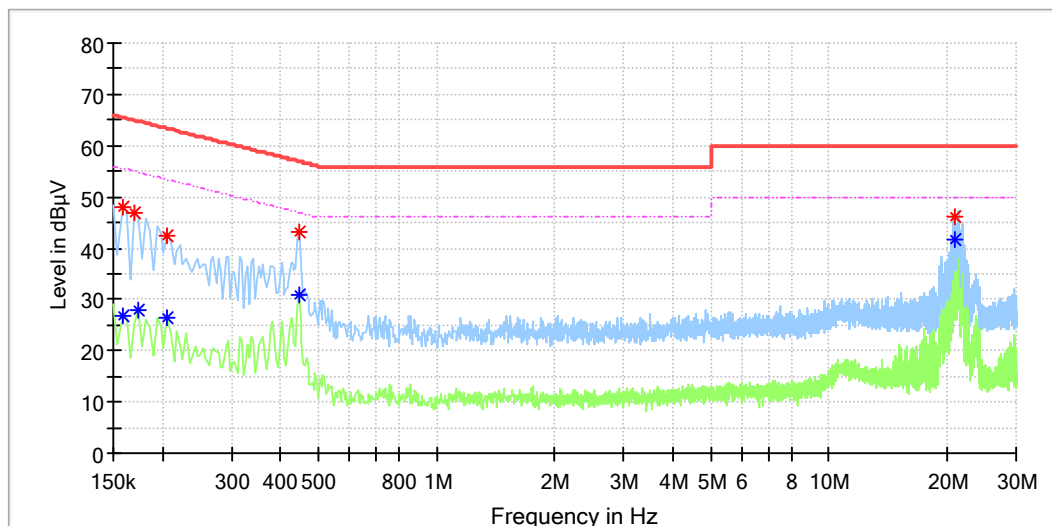
1	APPENDIX A.1: TEST PLOTS OF CONDUCTED EMISSIONS.....	2
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1 Appendix A.1: Test Plots of Conducted Emissions

Model RAK7268CV2H with Lora module RAK2287X

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
AC/DC Adapter: AD-0241200200US-1

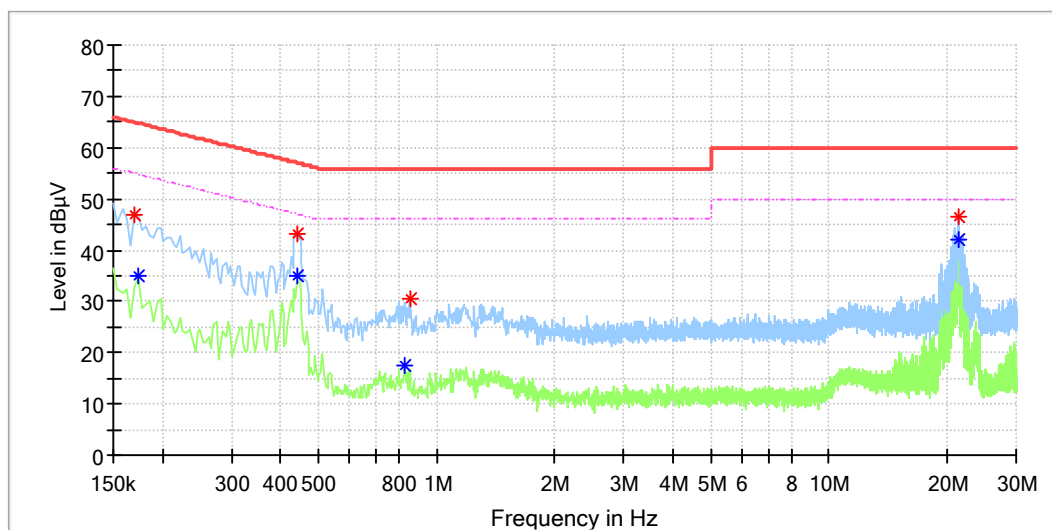


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	26.66	55.57	28.91	L1	9.9
0.158000	48.12	---	65.57	17.45	L1	9.9
0.170000	46.85	---	64.96	18.11	L1	9.9
0.174000	---	28.02	54.77	26.75	L1	9.9
0.206000	---	26.36	53.37	27.00	L1	9.9
0.206000	42.52	---	63.37	20.85	L1	9.9
0.446000	---	30.94	46.95	16.01	L1	9.9
0.446000	43.02	---	56.95	13.93	L1	9.9
20.878000	---	41.54	50.00	8.46	L1	10.4
20.882000	46.04	---	60.00	13.96	L1	10.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
AC/DC Adapter: AD-0241200200US-1

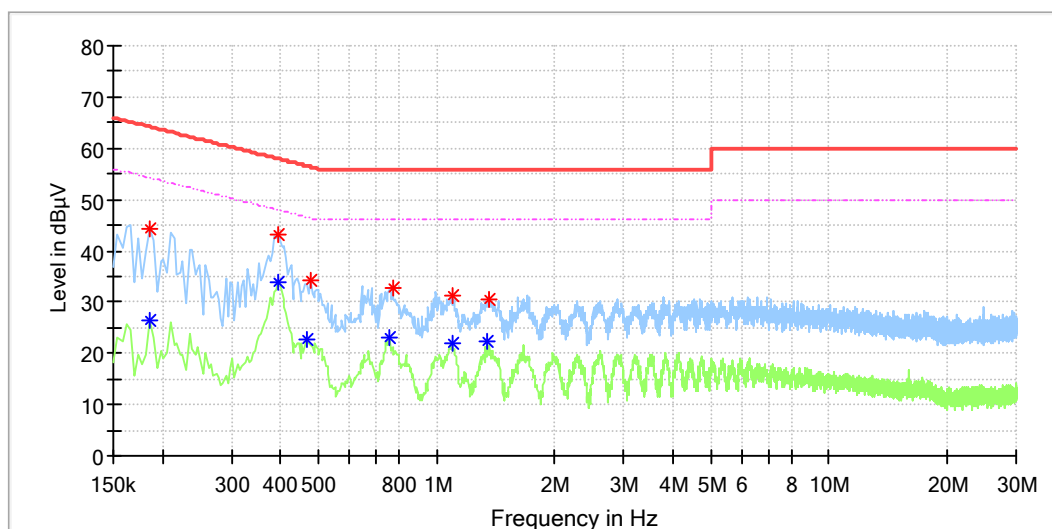


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	46.76	---	64.96	18.20	N	9.8
0.174000	---	34.88	54.77	19.88	N	9.8
0.442000	43.01	---	57.02	14.01	N	9.8
0.442000	---	34.83	47.02	12.19	N	9.8
0.826000	---	17.57	46.00	28.43	N	9.8
0.854000	30.37	---	56.00	25.63	N	9.8
21.442000	---	41.97	50.00	8.03	N	10.3
21.442000	46.35	---	60.00	13.65	N	10.3

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test mode: operating
Test Voltage: AC 120V/60Hz
Test By:/Review By: Mac Xie/Gary Chen
Test Standard: FCC part 15B
Tem./Hum./Pressure: 24.1°C/52.6%/101kPa
Remark: SR2
AC/DC Adapter: PSYC1202000

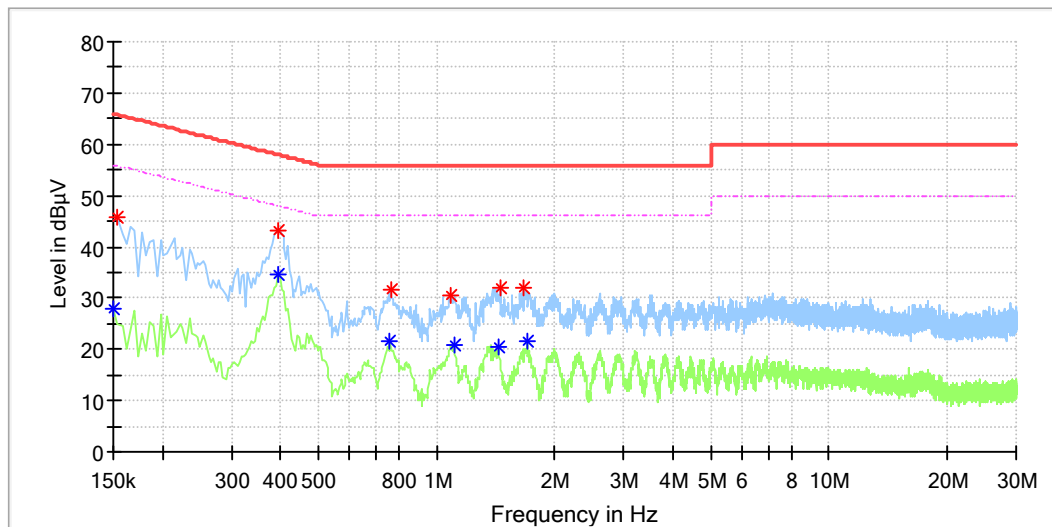


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.186000	44.39	---	64.21	19.82	L1	9.9
0.186000	---	26.26	54.21	27.95	L1	9.9
0.394000	43.12	---	57.98	14.86	L1	9.9
0.394000	---	34.00	47.98	13.98	L1	9.9
0.466000	---	22.56	46.59	24.02	L1	10.0
0.478000	34.13	---	56.37	22.25	L1	10.0
0.762000	---	23.02	46.00	22.98	L1	10.0
0.774000	32.80	---	56.00	23.20	L1	10.0
1.094000	---	22.06	46.00	23.94	L1	10.0
1.094000	31.20	---	56.00	24.80	L1	10.0
1.346000	---	22.31	46.00	23.69	L1	10.1
1.366000	30.53	---	56.00	25.47	L1	10.1

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test mode: operating
Test Voltage: AC 120V/60Hz
Test By:/Review By: Mac Xie/Gary Chen
Test Standard: FCC part 15B
Tem./Hum./Pressure: 24.1°C/52.6%/101kPa
Remark: SR2
AC/DC Adapter: PSYC1202000



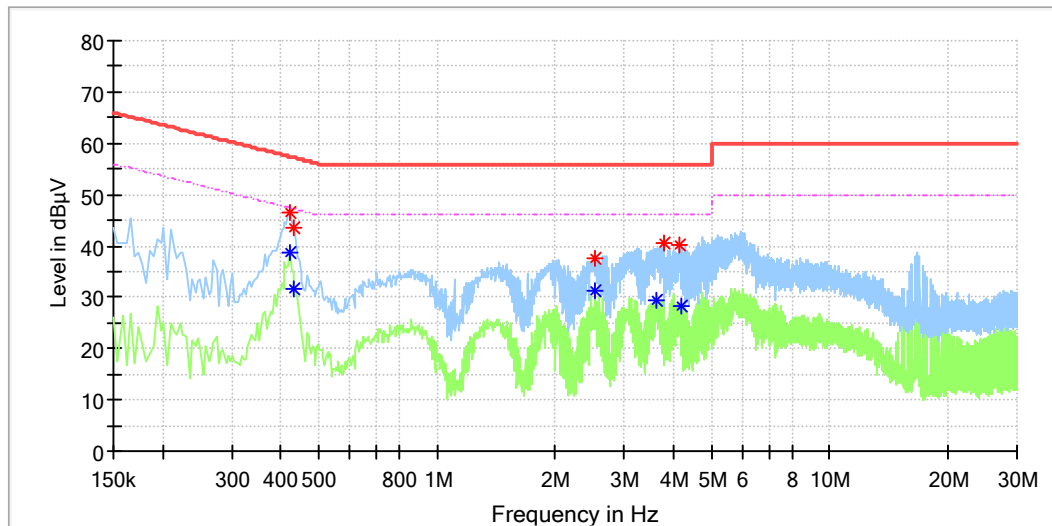
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	27.91	56.00	28.09	N	9.8
0.154000	45.84	---	65.78	19.95	N	9.8
0.394000	43.07	---	57.98	14.91	N	9.8
0.394000	---	34.60	47.98	13.38	N	9.8
0.762000	---	21.49	46.00	24.51	N	9.8
0.766000	31.73	---	56.00	24.27	N	9.8
1.086000	30.58	---	56.00	25.42	N	9.8
1.110000	---	20.98	46.00	25.02	N	9.8
1.438000	---	20.54	46.00	25.46	N	9.8
1.454000	32.15	---	56.00	23.85	N	9.8
1.670000	31.90	---	56.00	24.10	N	9.8
1.702000	---	21.48	46.00	24.52	N	9.8

Model RAK7268CV2H with Lora module RAK5146

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: SR1
AC/DC Adapter: AD-0241200200US-1

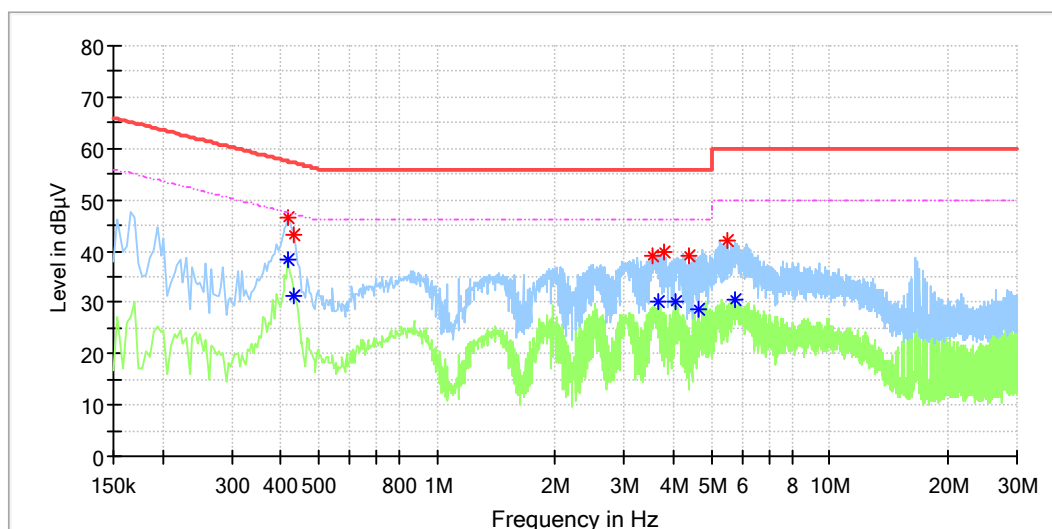


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.422000	46.53	---	57.41	10.88	L1	9.9
0.422000	---	38.71	47.41	8.70	L1	9.9
0.434000	43.64	---	57.18	13.54	L1	9.9
0.434000	---	31.81	47.18	15.36	L1	9.9
2.514000	37.70	---	56.00	18.30	L1	10.2
2.530000	---	31.18	46.00	14.82	L1	10.2
3.602000	---	29.26	46.00	16.74	L1	10.2
3.770000	40.54	---	56.00	15.46	L1	10.2
4.154000	40.09	---	56.00	15.91	L1	10.2
4.194000	---	28.44	46.00	17.56	L1	10.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: SR1
AC/DC Adapter: AD-0241200200US-1



Critical Freqs

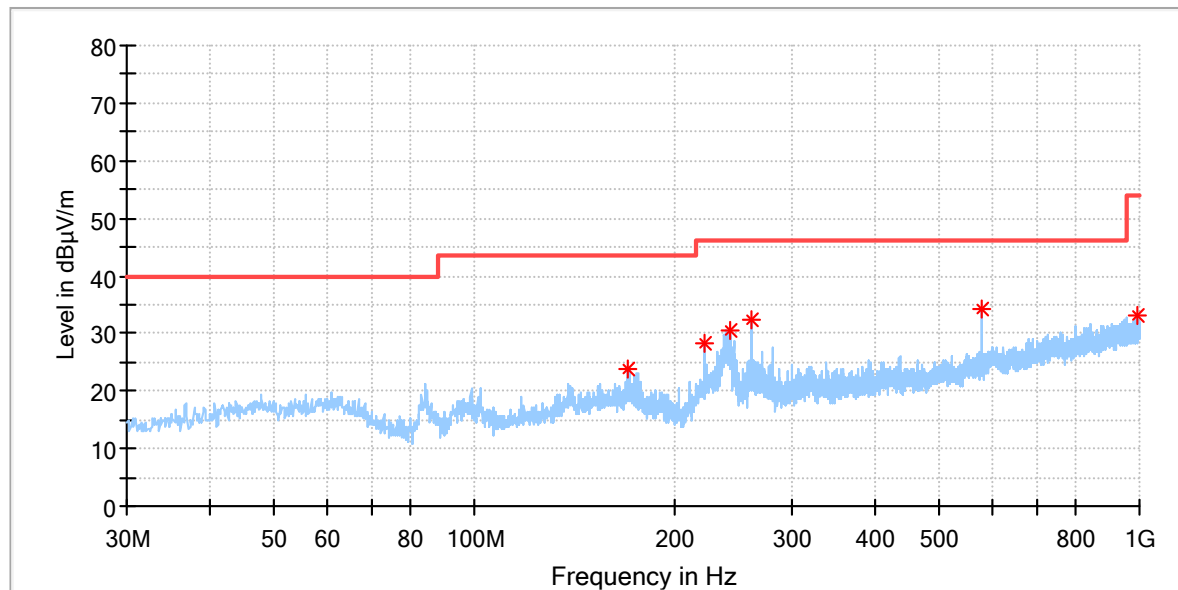
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.418000	46.57	---	57.49	10.92	N	9.8
0.418000	---	38.40	47.49	9.09	N	9.8
0.434000	43.04	---	57.18	14.13	N	9.8
0.434000	---	31.35	47.18	15.82	N	9.8
3.550000	39.17	---	56.00	16.83	N	9.9
3.642000	---	30.24	46.00	15.76	N	9.9
3.786000	39.89	---	56.00	16.11	N	9.9
4.054000	---	30.16	46.00	15.84	N	9.9
4.362000	39.04	---	56.00	16.96	N	9.9
4.650000	---	28.56	46.00	17.44	N	9.9
5.518000	41.92	---	60.00	18.08	N	9.9
5.714000	---	30.39	50.00	19.61	N	9.9

2 Appendix A.2: Test Plots of Radiated Emissions, below 1GHz

Model RAK7268V2H with Lora module RAK2287X

EUT Information

EUT Name:	WisGate Edge Lite 2
Model:	RAK7268V2H
Test Mode:	Operating Adapter
Test Voltage:	AC 120V/60Hz
Test By/Review By:	Jianhua Lu/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	23.8°C/52.5%/101kPa
Remark:	3m chamber
AC/DC Adapter:	AD-0241200200US-1

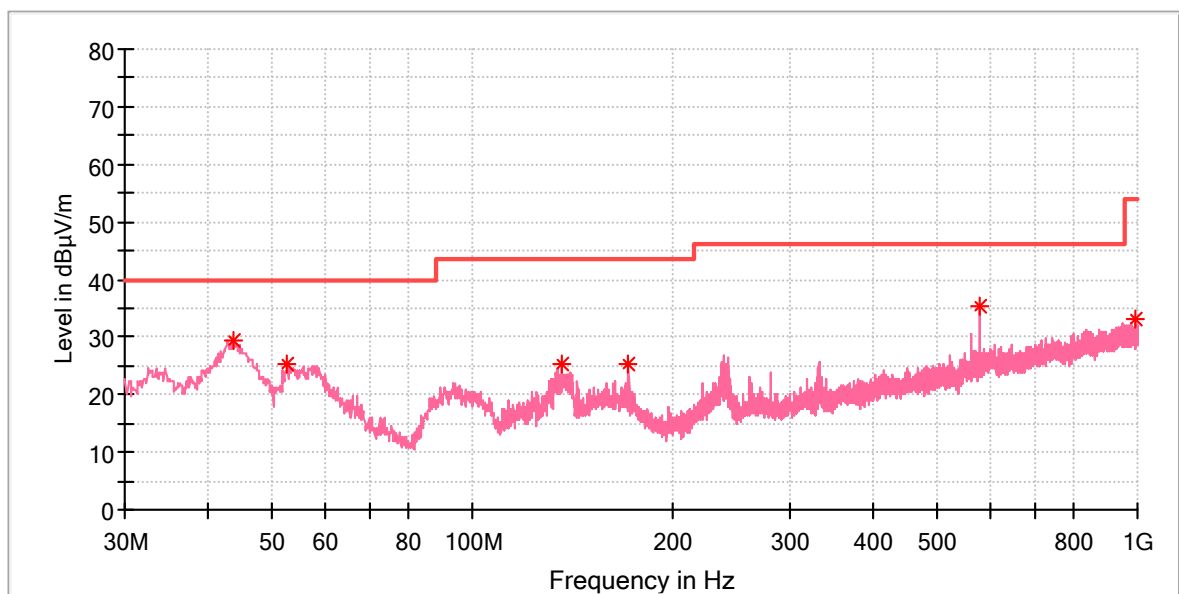


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
261.054000	32.46	46.00	13.54	100.0	H	6.0	20.0
992.628000	33.00	54.00	21.00	100.0	H	225.0	32.3
241.751000	30.67	46.00	15.33	100.0	H	228.0	18.7
579.990000	34.32	46.00	11.68	200.0	H	0.0	26.4
169.971000	23.84	43.50	19.66	200.0	H	334.0	21.7
222.351000	28.46	46.00	17.54	200.0	H	334.0	18.7

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

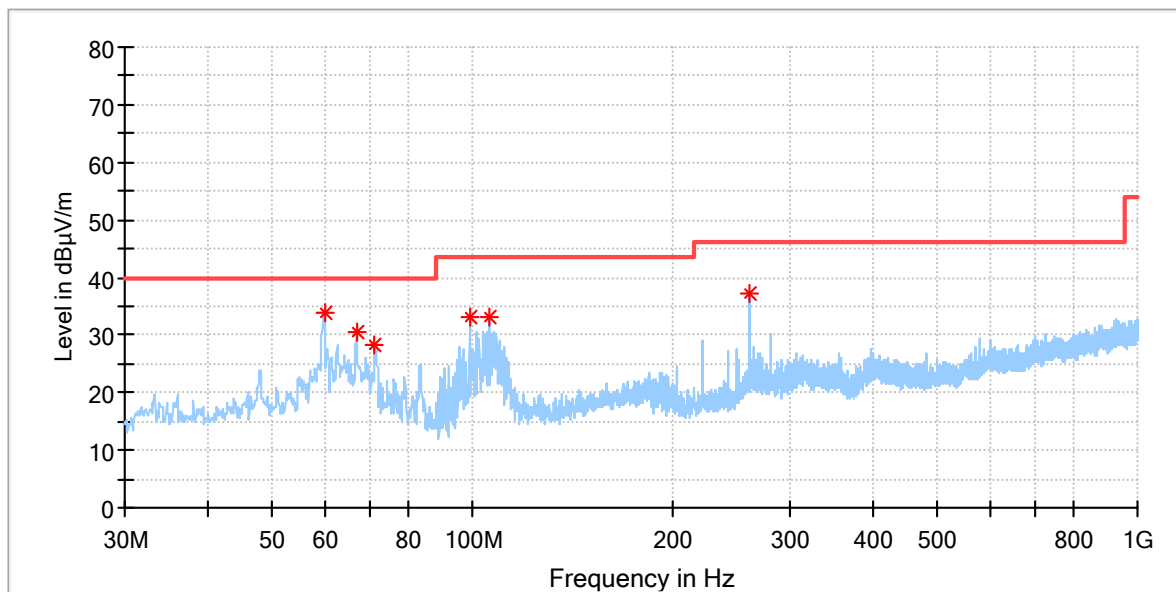


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.871000	29.31	40.00	10.69	100.0	V	18.0	20.5
171.911000	25.12	43.50	18.38	100.0	V	41.0	21.3
996.217000	33.21	54.00	20.79	100.0	V	68.0	32.3
579.990000	35.47	46.00	10.53	100.0	V	149.0	26.4
52.698000	25.18	40.00	14.82	100.0	V	244.0	20.9
136.118000	25.26	43.50	18.24	100.0	V	304.0	19.8

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

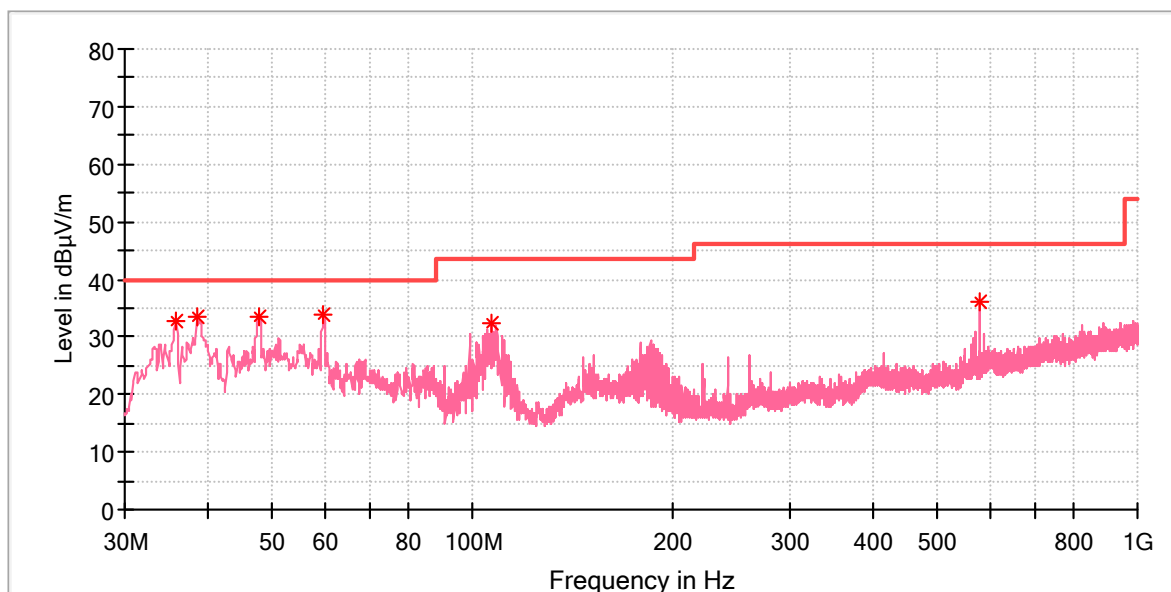


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.876000	33.88	40.00	6.12	200.0	H	178.0	20.9
66.860000	30.42	40.00	9.58	100.0	H	180.0	19.5
71.419000	28.39	40.00	11.61	200.0	H	178.0	17.9
98.967000	33.24	43.50	10.26	200.0	H	30.0	17.0
105.854000	33.03	43.50	10.47	200.0	H	30.0	17.5
260.957000	37.04	46.00	8.96	100.0	H	219.0	20.0

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

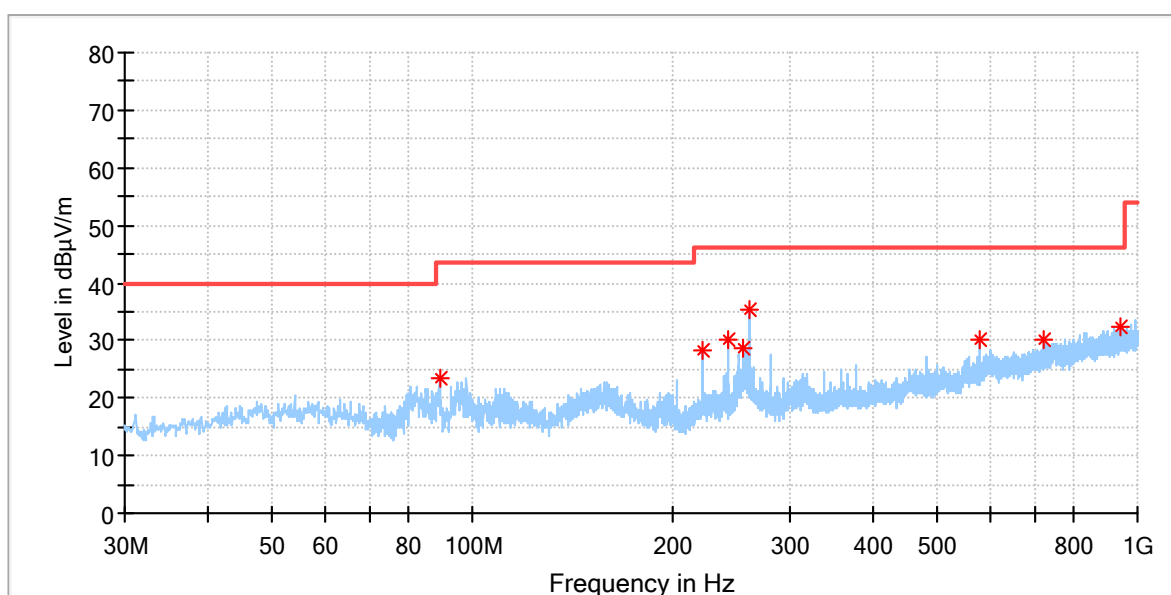


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.820000	32.90	40.00	7.10	100.0	V	110.0	18.7
38.536000	33.36	40.00	6.64	100.0	V	110.0	19.2
47.654000	33.59	40.00	6.41	100.0	V	78.0	21.3
59.682000	33.68	40.00	6.32	100.0	V	275.0	21.0
106.630000	32.32	43.50	11.18	100.0	V	32.0	17.6
579.990000	35.98	46.00	10.02	100.0	V	219.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

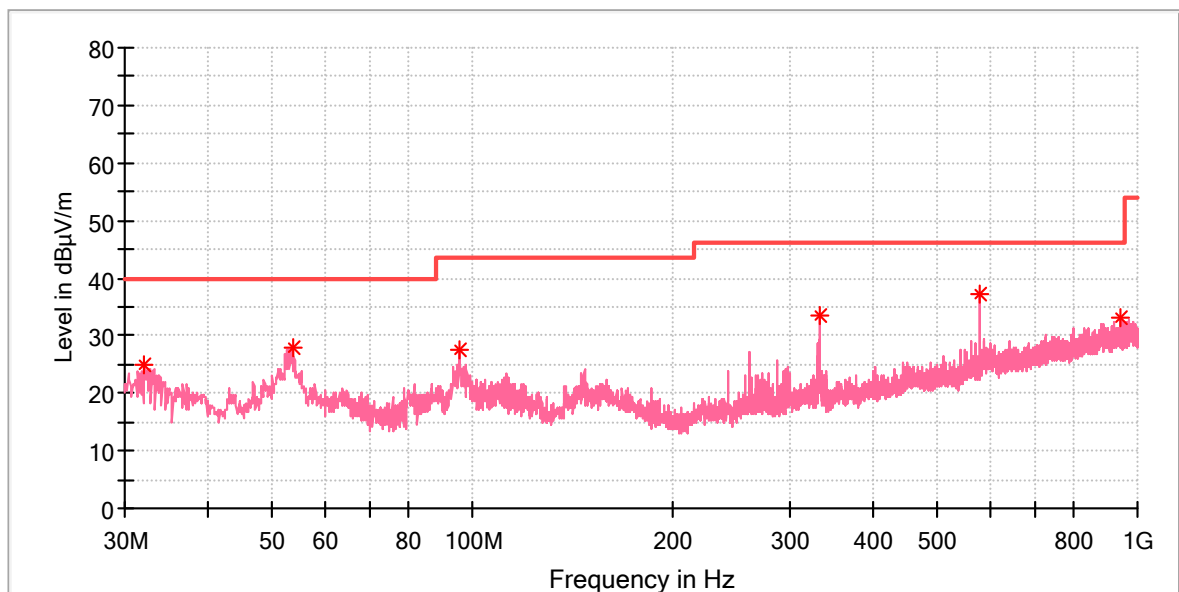


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
89.170000	23.58	43.50	19.92	200.0	H	167.0	15.3
222.351000	28.34	46.00	17.66	100.0	H	0.0	18.7
241.654000	30.32	46.00	15.68	200.0	H	242.0	18.7
256.010000	28.52	46.00	17.48	100.0	H	219.0	19.6
260.957000	35.24	46.00	10.76	200.0	H	186.0	20.0
579.990000	30.14	46.00	15.86	200.0	H	344.0	26.4
723.744000	29.96	46.00	16.04	200.0	H	223.0	29.5
941.121000	32.48	46.00	13.52	200.0	H	328.0	32.3

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



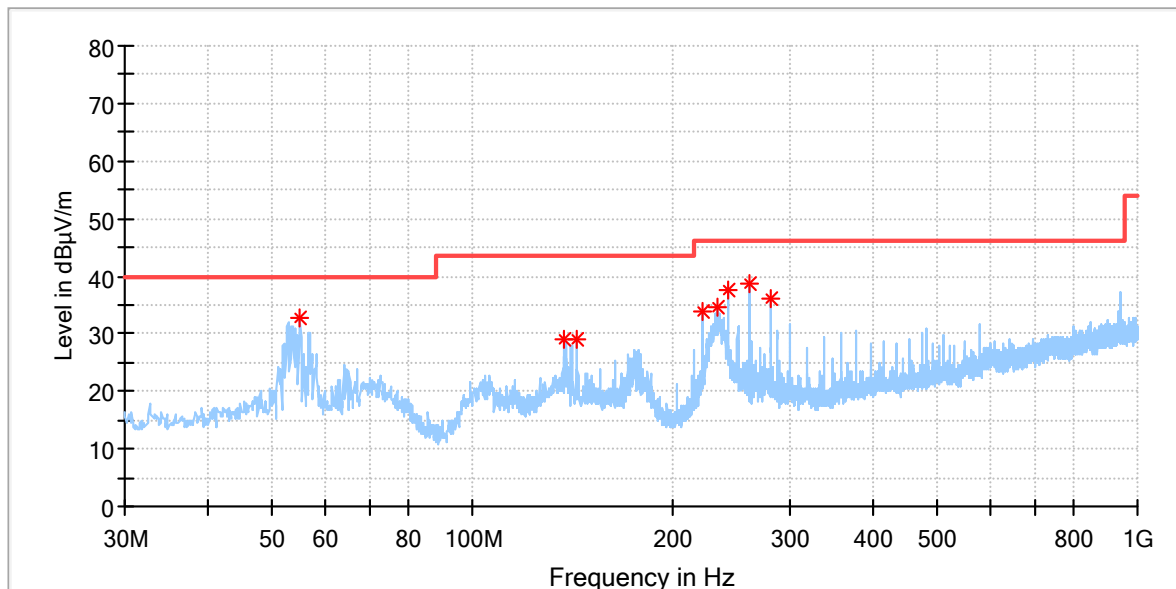
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
95.572000	27.72	43.50	15.78	100.0	V	24.0	16.4
32.134000	24.87	40.00	15.13	100.0	V	48.0	17.8
53.571000	27.97	40.00	12.03	100.0	V	279.0	20.9
579.990000	37.06	46.00	8.94	100.0	V	333.0	26.4
331.864000	33.57	46.00	12.43	200.0	V	26.0	21.4
942.479000	33.16	46.00	12.84	200.0	V	321.0	32.2

Model RAK7268V2H with Lora module RAK5146

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

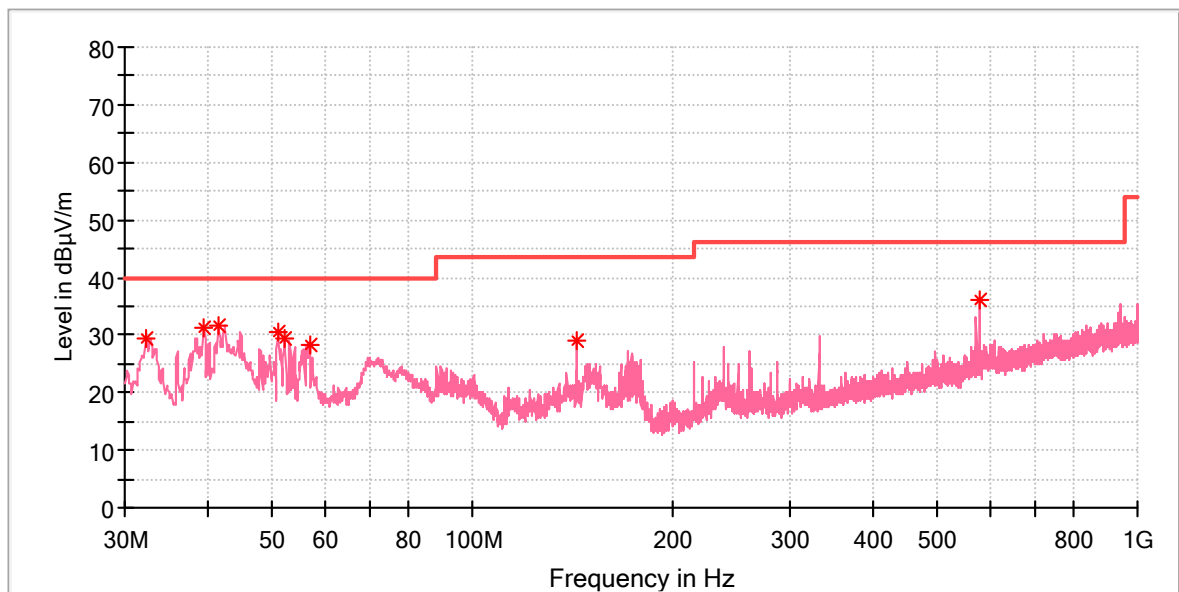


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.026000	32.79	40.00	7.21	200.0	H	344.0	21.1
137.670000	28.96	43.50	14.54	200.0	H	353.0	20.0
143.296000	29.09	43.50	14.41	200.0	H	200.0	20.2
222.254000	33.69	46.00	12.31	100.0	H	163.0	18.7
233.312000	34.62	46.00	11.38	100.0	H	186.0	18.8
241.654000	37.65	46.00	8.35	100.0	H	163.0	18.7
260.957000	38.65	46.00	7.35	100.0	H	139.0	20.0
280.260000	36.09	46.00	9.91	100.0	H	53.0	20.1

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

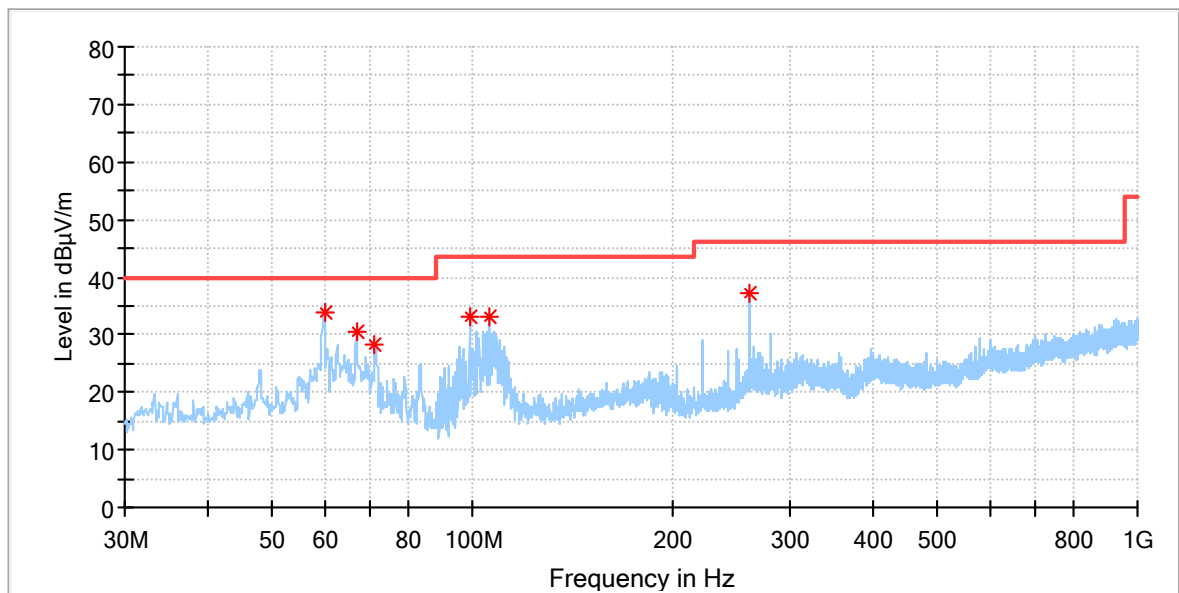


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.328000	29.55	40.00	10.45	200.0	V	300.0	17.9
39.409000	31.38	40.00	8.62	200.0	V	95.0	19.4
41.543000	31.70	40.00	8.30	200.0	V	95.0	19.9
51.049000	30.68	40.00	9.32	200.0	V	252.0	20.8
52.116000	29.46	40.00	10.54	200.0	V	252.0	20.9
56.966000	28.18	40.00	11.82	200.0	V	252.0	21.3
143.199000	28.89	43.50	14.61	100.0	V	306.0	20.2
579.990000	36.23	46.00	9.77	100.0	V	82.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

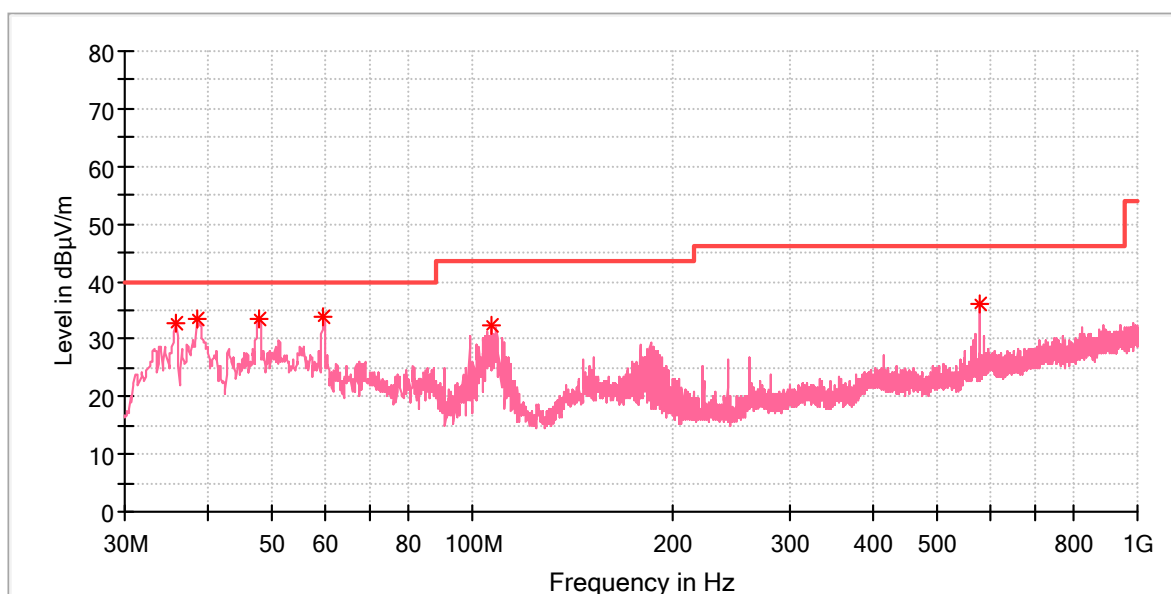


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.876000	33.88	40.00	6.12	200.0	H	178.0	20.9
66.860000	30.42	40.00	9.58	100.0	H	180.0	19.5
71.419000	28.39	40.00	11.61	200.0	H	178.0	17.9
98.967000	33.24	43.50	10.26	200.0	H	30.0	17.0
105.854000	33.03	43.50	10.47	200.0	H	30.0	17.5
260.957000	37.04	46.00	8.96	100.0	H	219.0	20.0

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

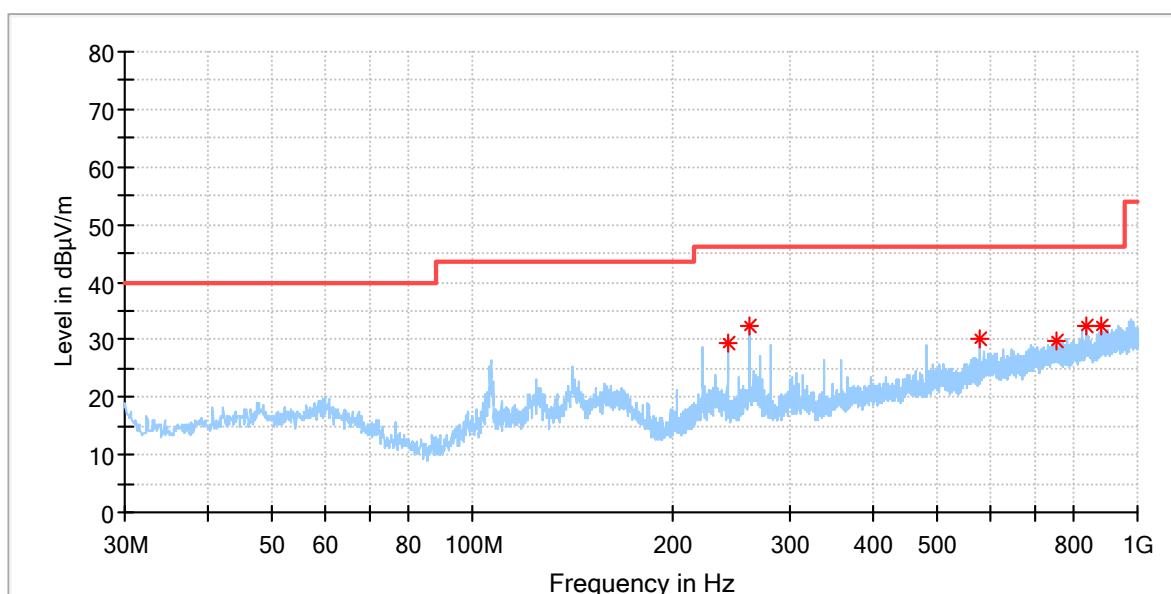


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.820000	32.90	40.00	7.10	100.0	V	110.0	18.7
38.536000	33.36	40.00	6.64	100.0	V	110.0	19.2
47.654000	33.59	40.00	6.41	100.0	V	78.0	21.3
59.682000	33.68	40.00	6.32	100.0	V	275.0	21.0
106.630000	32.32	43.50	11.18	100.0	V	32.0	17.6
579.990000	35.98	46.00	10.02	100.0	V	219.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

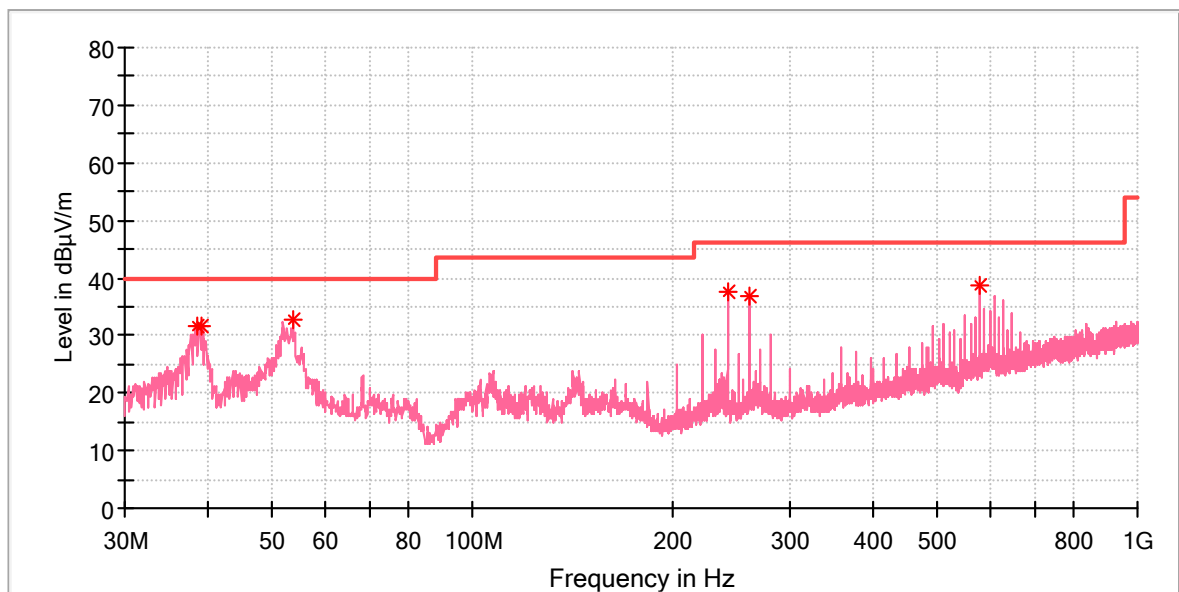


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
879.332000	32.30	46.00	13.70	100.0	H	190.0	31.2
756.239000	29.94	46.00	16.06	100.0	H	205.0	30.1
836.458000	32.44	46.00	13.56	100.0	H	252.0	31.1
241.654000	29.39	46.00	16.61	100.0	H	275.0	18.7
260.957000	32.46	46.00	13.54	100.0	H	314.0	20.0
579.990000	30.22	46.00	15.78	200.0	H	234.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



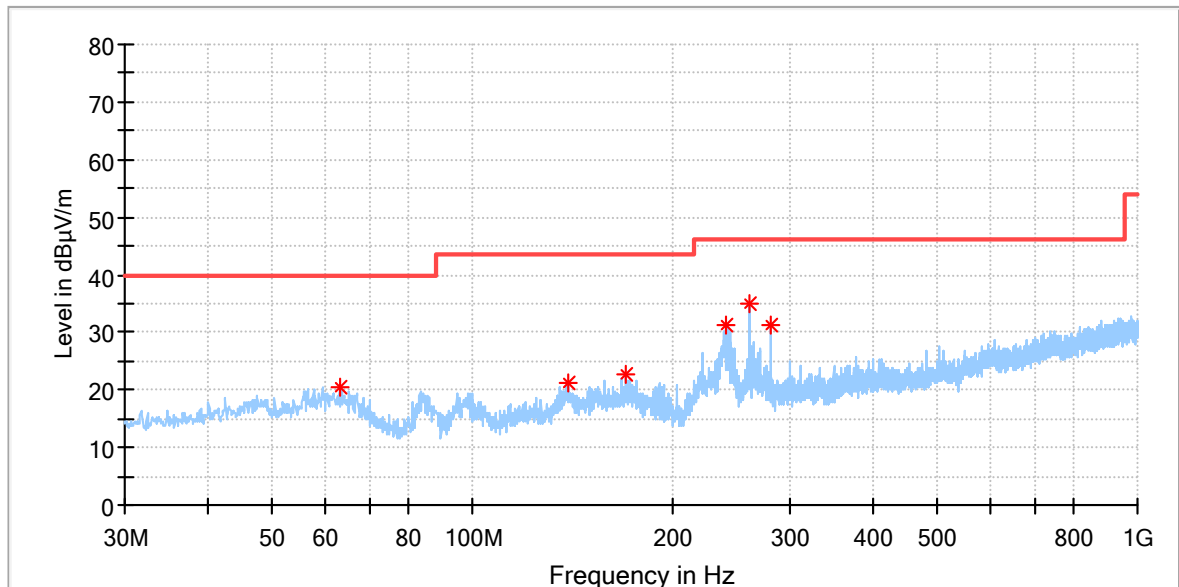
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
260.957000	36.79	46.00	9.21	100.0	V	64.0	20.0
241.654000	37.57	46.00	8.43	100.0	V	76.0	18.7
53.668000	32.56	40.00	7.44	100.0	V	223.0	20.9
579.990000	38.55	46.00	7.45	100.0	V	243.0	26.4
38.536000	31.59	40.00	8.41	100.0	V	254.0	19.2
39.215000	31.81	40.00	8.19	100.0	V	348.0	19.4

Model RAK7268CV2H with Lora module RAK2287X

EUT Information

EUT Name:	WisGate Edge Lite 2
Model:	RAK7268CV2H
Test Mode:	Operating Adapter
Test Voltage:	AC 120V/60Hz
Test By/Review By:	Jianhua Lu/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	23.8°C/52.5%/101kPa
Remark:	3m chamber
AC/DC Adapter:	AD-0241200200US-1

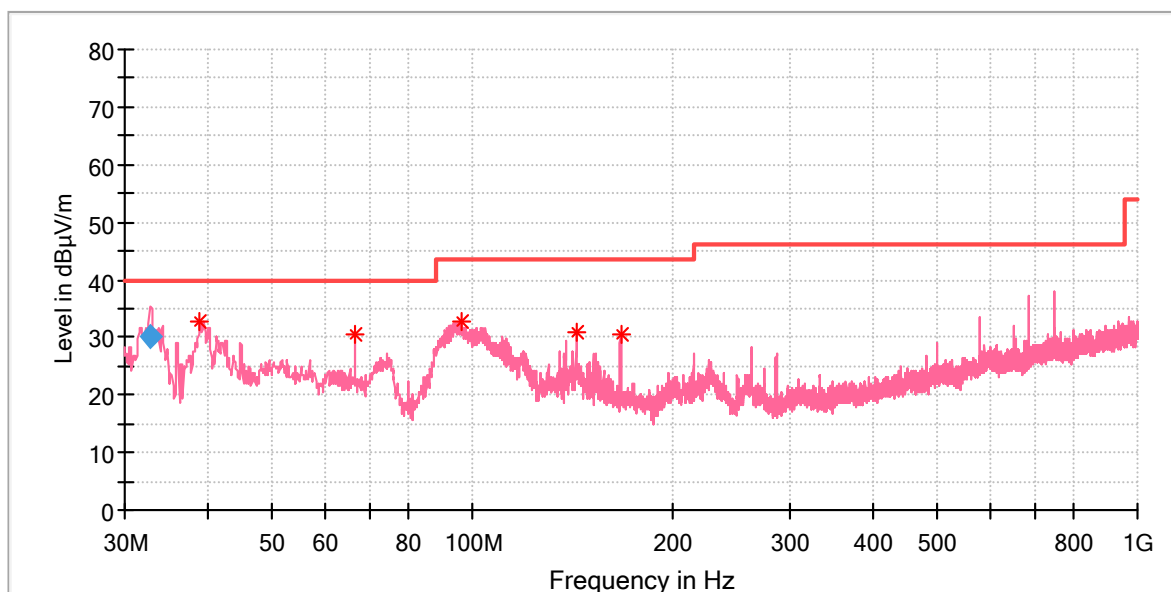


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.174000	20.47	40.00	19.53	200.0	H	358.0	20.4
139.610000	21.21	43.50	22.29	200.0	H	137.0	20.2
170.456000	22.85	43.50	20.65	100.0	H	37.0	21.6
240.781000	31.08	46.00	14.92	100.0	H	209.0	18.7
260.957000	35.09	46.00	10.91	100.0	H	180.0	20.0
280.260000	31.21	46.00	14.79	100.0	H	196.0	20.1

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: operating
Test Voltage: AC 120V/60Hz
Test By: Jianhua Lu
Review By: Gary Chen
Remark: 3m Chamber
AC/DC Adapter: AD-0241200200US-1



Critical_Freqs

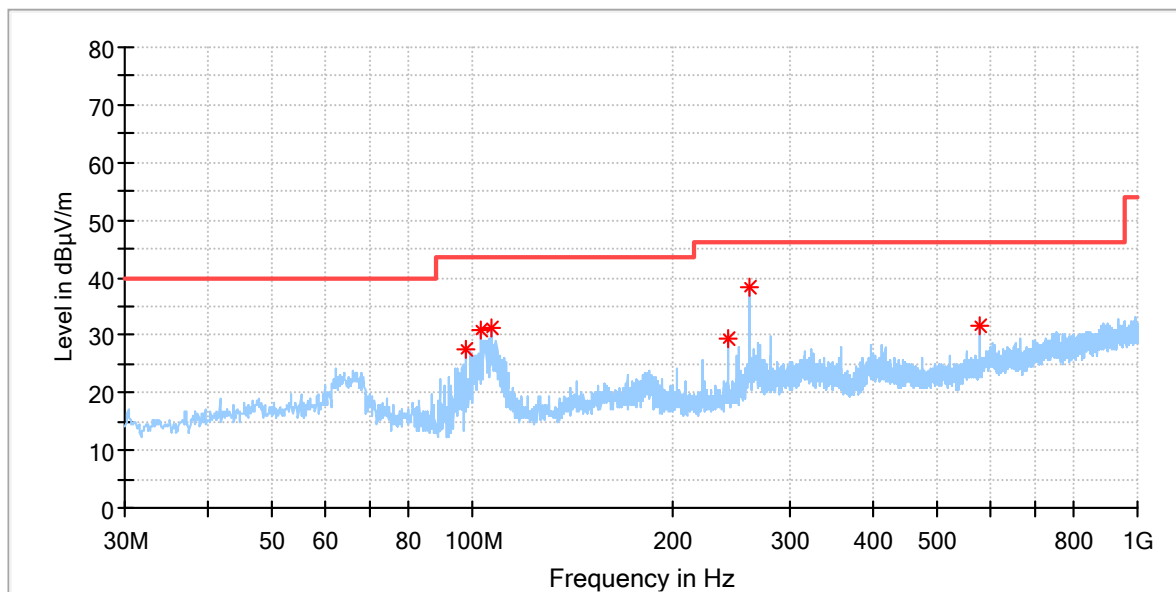
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.924000	32.68	40.00	7.32	100.0	V	8.0	19.3
66.569000	30.49	40.00	9.51	100.0	V	246.0	19.6
95.960000	32.93	43.50	10.57	100.0	V	305.0	16.5
143.102000	30.85	43.50	12.65	100.0	V	249.0	20.2
166.964000	30.48	43.50	13.02	100.0	V	265.0	21.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.873000	30.15	40.00	9.85	1000.0	120.000	100.0	V	115.0	18.0

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

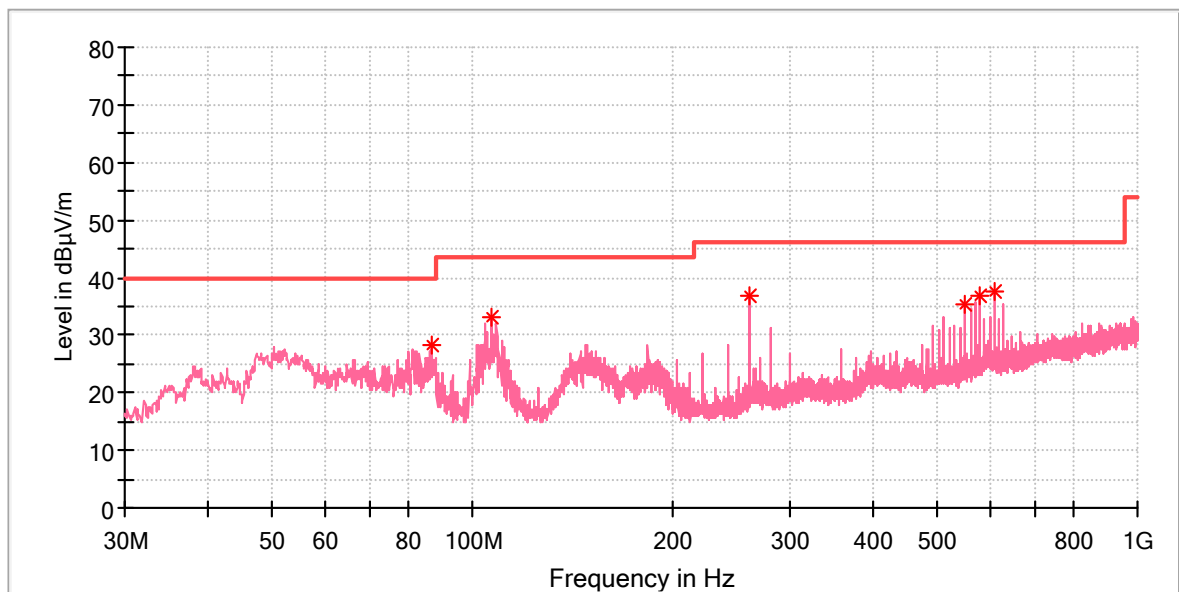


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
97.609000	27.61	43.50	15.89	200.0	H	62.0	16.8
103.041000	30.92	43.50	12.58	200.0	H	62.0	17.3
106.630000	31.12	43.50	12.38	200.0	H	41.0	17.6
241.654000	29.26	46.00	16.74	100.0	H	114.0	18.7
260.957000	38.44	46.00	7.56	100.0	H	162.0	20.0
579.990000	31.59	46.00	14.41	200.0	H	185.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

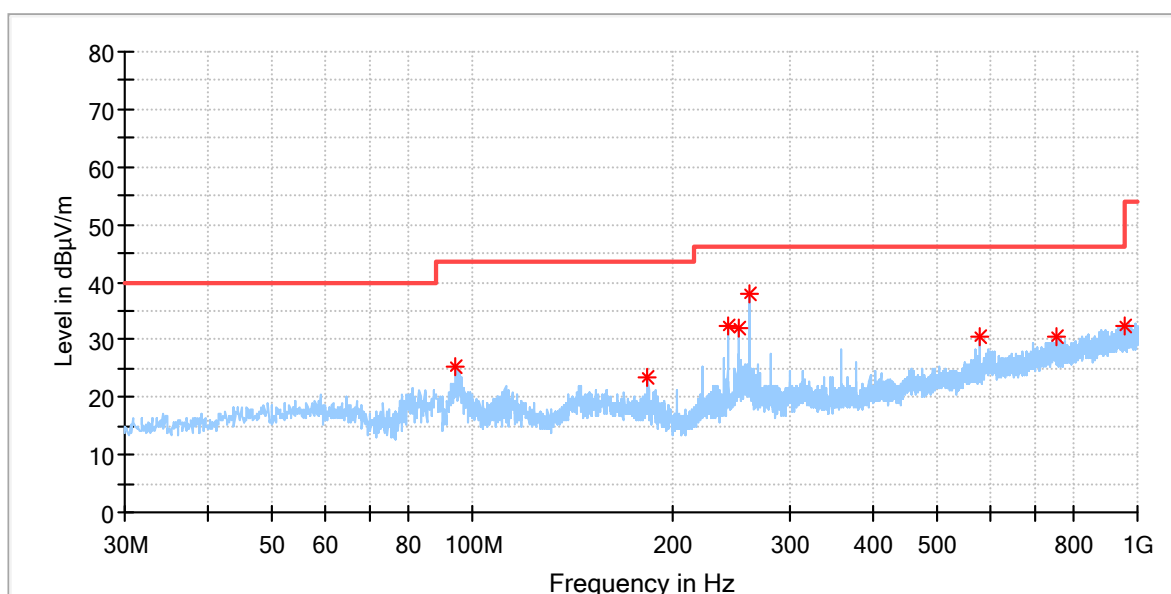


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
86.648000	28.37	40.00	11.63	200.0	V	27.0	15.2
106.630000	33.18	43.50	10.32	100.0	V	46.0	17.6
260.957000	36.66	46.00	9.34	100.0	V	78.0	20.0
550.987000	35.34	46.00	10.66	100.0	V	242.0	26.7
579.990000	36.83	46.00	9.17	100.0	V	226.0	26.4
608.993000	37.52	46.00	8.48	100.0	V	0.0	27.8

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

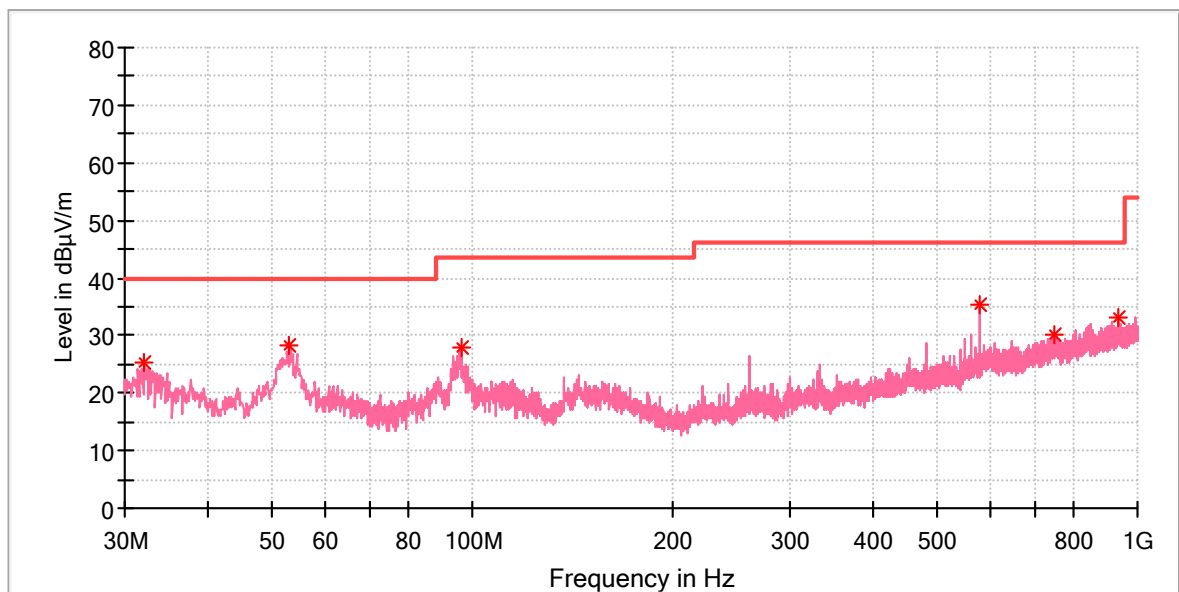


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
94.505000	25.37	43.50	18.13	200.0	H	187.0	16.2
183.648000	23.37	43.50	20.13	200.0	H	0.0	18.6
241.654000	32.54	46.00	13.46	100.0	H	209.0	18.7
251.354000	32.02	46.00	13.98	100.0	H	245.0	19.0
260.957000	37.81	46.00	8.19	100.0	H	230.0	20.0
579.990000	30.41	46.00	15.59	200.0	H	18.0	26.4
754.881000	30.36	46.00	15.64	100.0	H	296.0	30.2
955.671000	32.56	46.00	13.44	200.0	H	6.0	31.9

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



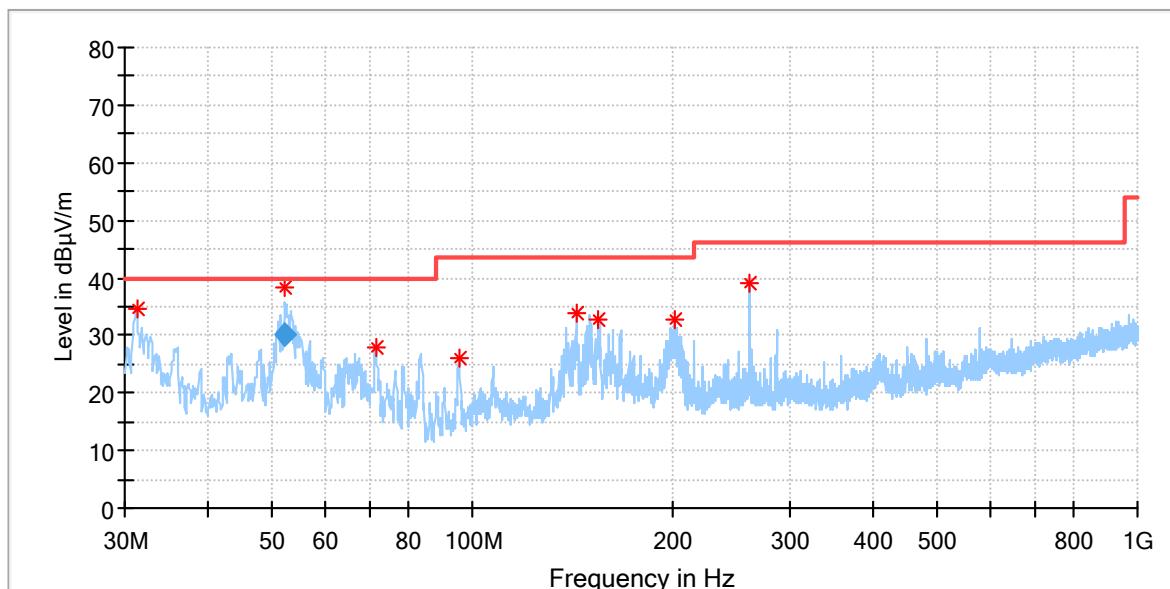
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
579.990000	35.43	46.00	10.57	100.0	V	0.0	26.4
96.057000	27.93	43.50	15.57	100.0	V	60.0	16.5
32.134000	25.46	40.00	14.54	100.0	V	148.0	17.8
52.892000	28.40	40.00	11.60	100.0	V	255.0	20.9
751.777000	30.19	46.00	15.81	100.0	V	349.0	30.4
934.234000	33.10	46.00	12.90	200.0	V	249.0	32.1

Model RAK7268CV2H with Lora module RAK5146

EUT Information

EUT Name:	WisGate Edge Lite 2
Model:	RAK7268CV2H
Test Mode:	Operating Adapter
Test Voltage:	AC 120V/60Hz
Test By/Review By:	Jianhua Lu/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	23.8°C/52.5%/101kPa
Remark:	3m chamber
AC/DC Adapter:	AD-0241200200US-1



Critical_Freqs

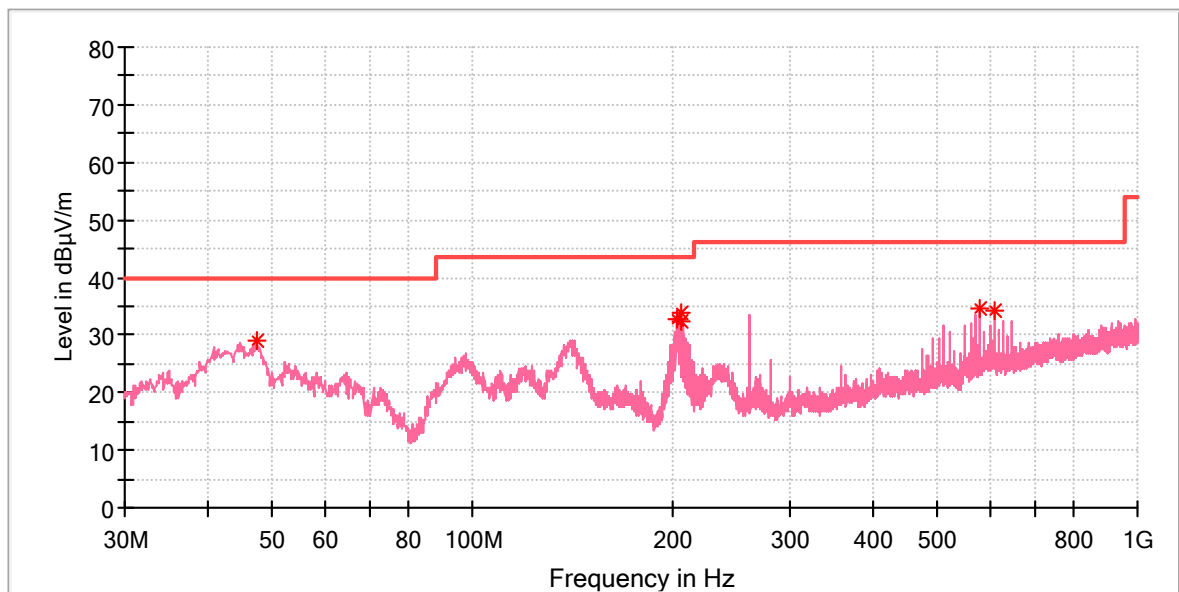
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.261000	34.71	40.00	5.29	200.0	H	308.0	17.9
71.516000	27.98	40.00	12.02	200.0	H	0.0	17.9
95.378000	26.07	43.50	17.43	200.0	H	0.0	16.4
143.296000	33.84	43.50	9.66	200.0	H	336.0	20.2
155.033000	32.56	43.50	10.94	200.0	H	320.0	21.4
201.496000	32.58	43.50	10.92	100.0	H	4.0	17.2
260.957000	39.26	46.00	6.74	100.0	H	59.0	20.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.273000	30.21	40.00	9.79	1000.0	120.000	200.0	H	0.0	20.9

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

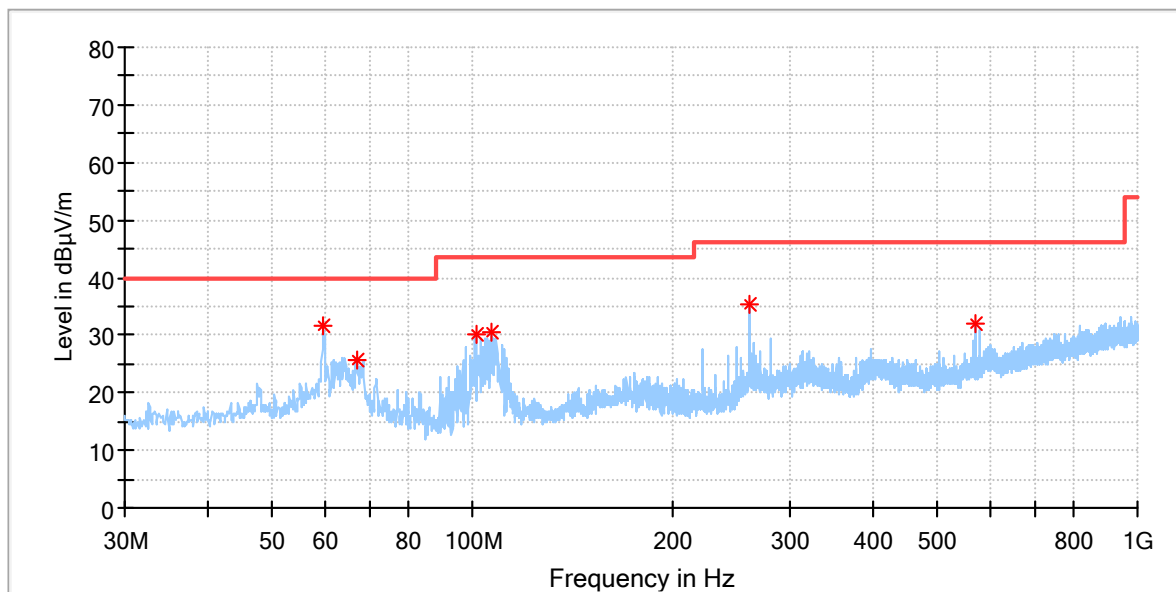


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.460000	28.87	40.00	11.13	100.0	V	34.0	21.3
202.951000	32.82	43.50	10.68	100.0	V	113.0	17.2
205.279000	34.02	43.50	9.48	100.0	V	274.0	17.4
206.734000	32.40	43.50	11.10	100.0	V	274.0	17.5
608.993000	34.26	46.00	11.74	100.0	V	348.0	27.8
580.087000	34.77	46.00	11.23	200.0	V	257.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

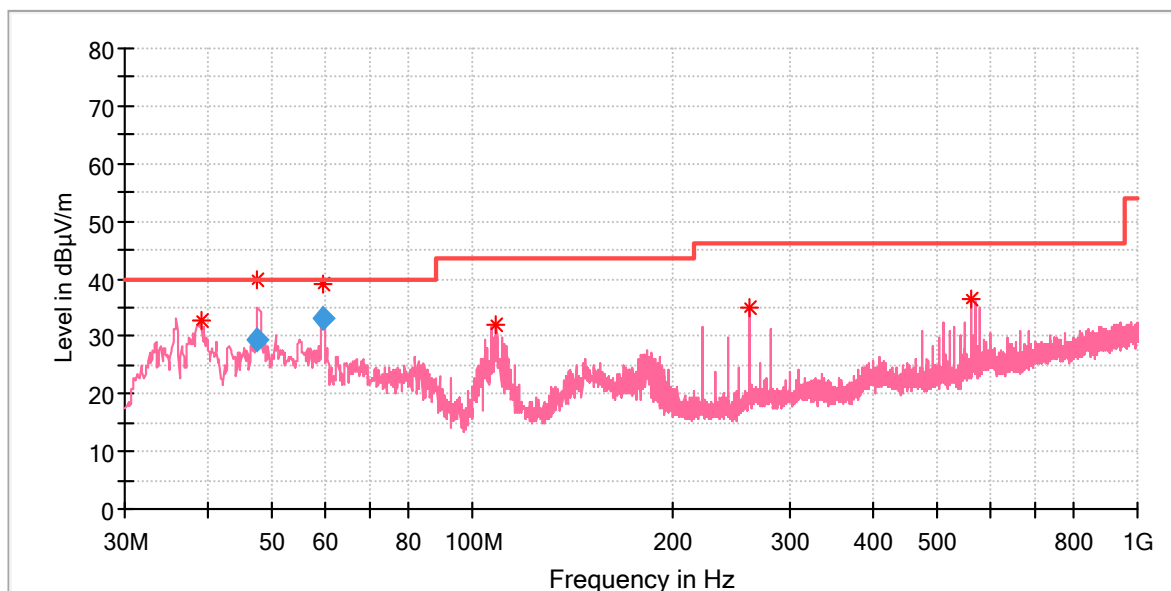


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
59.682000	31.60	40.00	8.40	200.0	H	172.0	21.0
66.957000	25.54	40.00	14.46	200.0	H	172.0	19.4
101.101000	30.08	43.50	13.42	200.0	H	192.0	17.2
106.630000	30.64	43.50	12.86	200.0	H	216.0	17.6
260.957000	35.19	46.00	10.81	100.0	H	103.0	20.0
572.230000	31.97	46.00	14.03	200.0	H	203.0	26.3

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000



Critical_Freqs

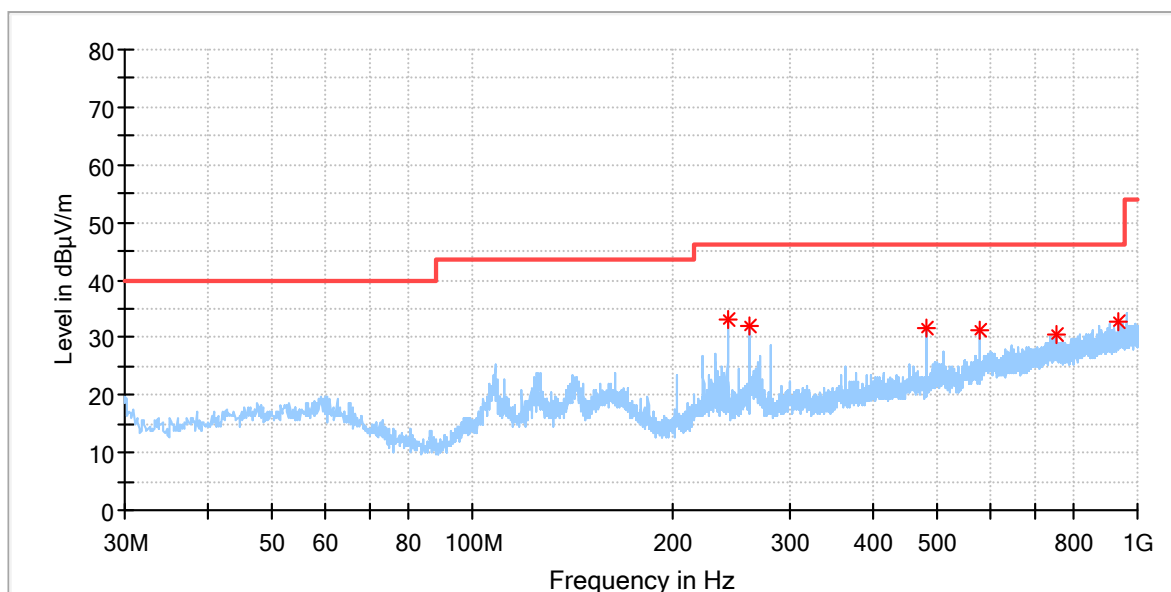
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.118000	32.76	40.00	7.24	100.0	V	32.0	19.4
47.577000	39.87	40.00	0.13	200.0	V	65.0	21.3
59.645000	38.88	40.00	1.12	200.0	V	67.0	21.0
108.764000	31.83	43.50	11.67	100.0	V	65.0	17.8
260.957000	35.05	46.00	10.95	100.0	V	57.0	20.0
560.687000	36.44	46.00	9.56	100.0	V	358.0	26.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.577000	29.52	40.00	10.48	1000.0	120.000	200.0	V	65.0	21.3
59.645000	33.29	40.00	6.71	1000.0	120.000	200.0	V	67.0	21.0

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

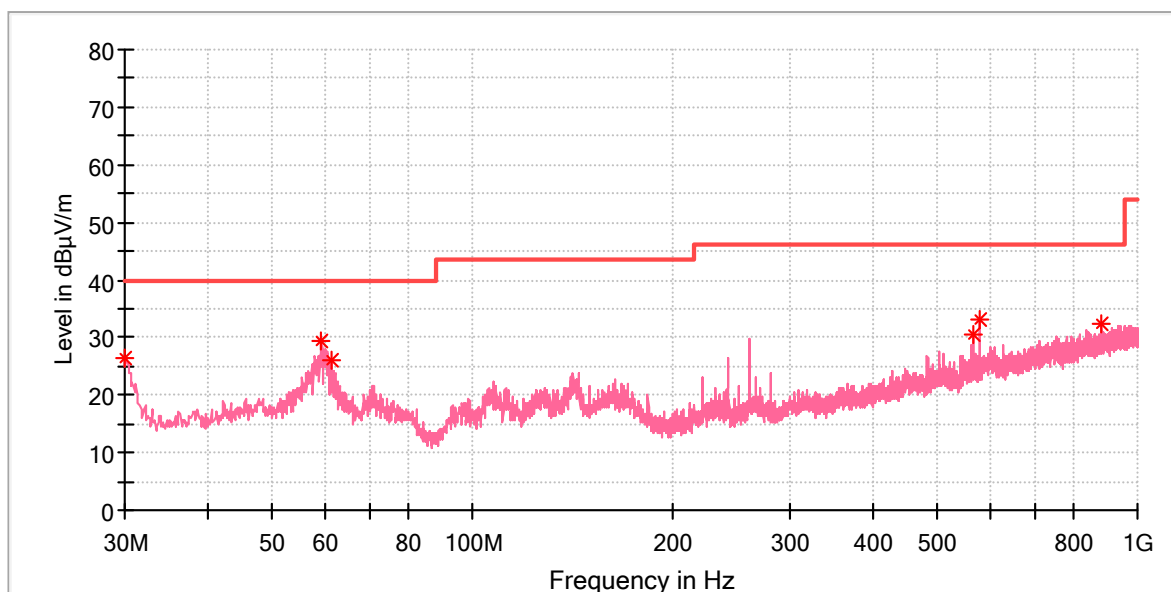


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
936.562000	32.71	46.00	13.29	100.0	H	158.0	32.2
755.948000	30.38	46.00	15.62	100.0	H	198.0	30.1
260.957000	32.11	46.00	13.89	100.0	H	272.0	20.0
241.654000	32.99	46.00	13.01	100.0	H	329.0	18.7
479.983000	31.78	46.00	14.22	200.0	H	215.0	24.5
579.990000	31.42	46.00	14.58	200.0	H	215.0	26.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



Critical_Freqs

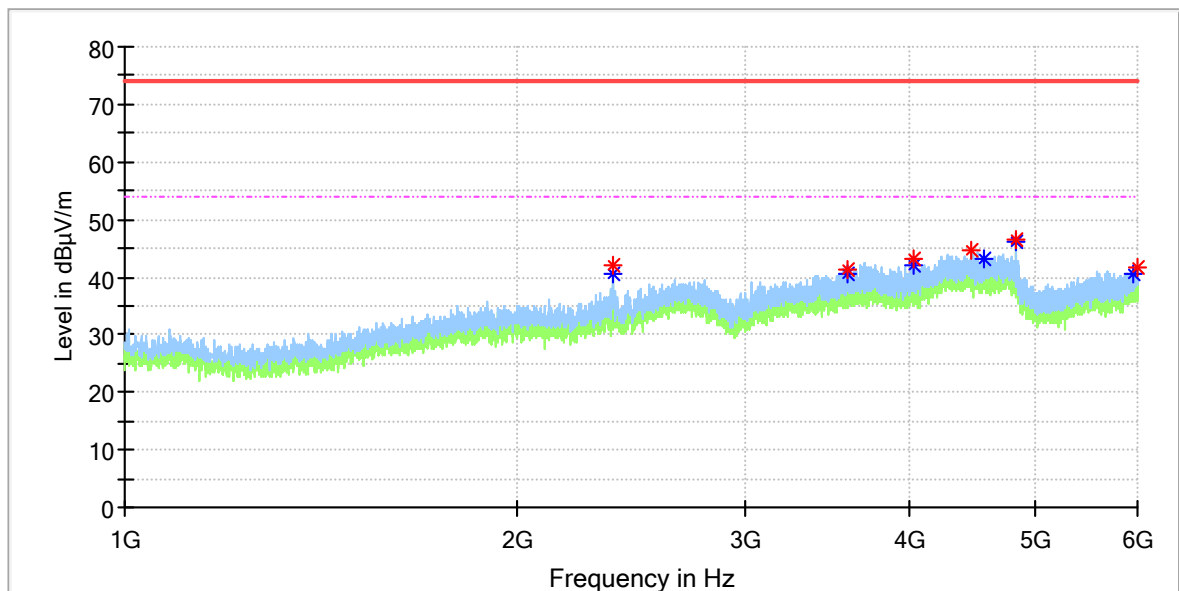
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
566.410000	30.49	46.00	15.51	100.0	V	16.0	26.4
61.331000	25.99	40.00	14.01	100.0	V	37.0	20.7
579.990000	33.03	46.00	12.97	100.0	V	84.0	26.4
59.294000	29.32	40.00	10.68	100.0	V	92.0	21.1
880.884000	32.21	46.00	13.79	100.0	V	131.0	31.2
30.000000	26.46	40.00	13.54	100.0	V	162.0	18.3

3 Appendix A.3: Test Plots of Radiated Emissions, above 1GHz

Model RAK7268V2H with Lora module RAK2287X

EUT Information

EUT Name:	WisGate Edge Lite 2
Model:	RAK7268V2H
Test Mode:	Operating Adapter
Test Voltage:	AC 120V/60Hz
Test By/Review By:	Jianhua Lu/Gary Chen
Test Standard:	FCC part 15
Tem./Hum./Pressure:	23.8°C/52.5%/101kPa
Remark:	3m chamber
AC/DC Adapter:	AD-0241200200US-1

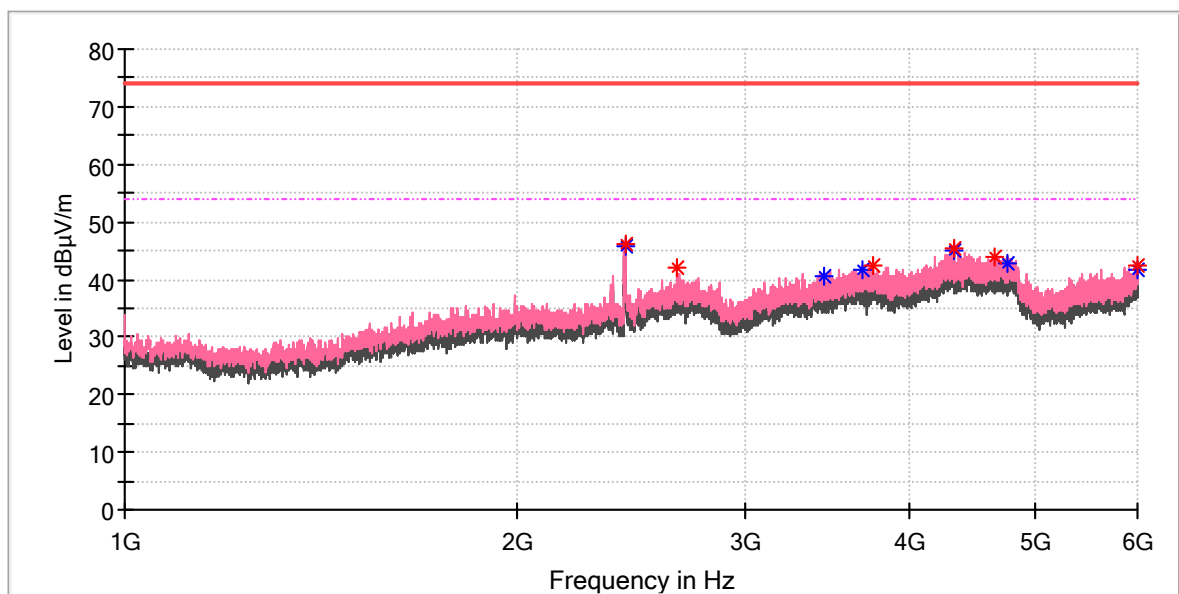


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.500000	---	40.63	54.00	13.37	100.0	H	41.0	-6.0
2373.500000	41.91	---	74.00	32.09	100.0	H	41.0	-6.0
4844.500000	46.67	---	74.00	27.33	100.0	H	122.0	1.7
4844.500000	---	46.26	54.00	7.74	100.0	H	122.0	1.7
5998.500000	41.75	---	74.00	32.25	100.0	H	144.0	2.5
3589.000000	---	40.47	54.00	13.53	100.0	H	159.0	-0.7
3589.000000	41.27	---	74.00	32.73	100.0	H	159.0	-0.7
4473.500000	44.52	---	74.00	29.48	100.0	H	211.0	2.0
5951.500000	---	40.47	54.00	13.53	100.0	H	245.0	2.1
4043.000000	43.08	---	74.00	30.92	100.0	H	288.0	0.4
4043.000000	---	42.12	54.00	11.88	100.0	H	288.0	0.4
4572.000000	---	43.31	54.00	10.69	100.0	H	333.0	1.9

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

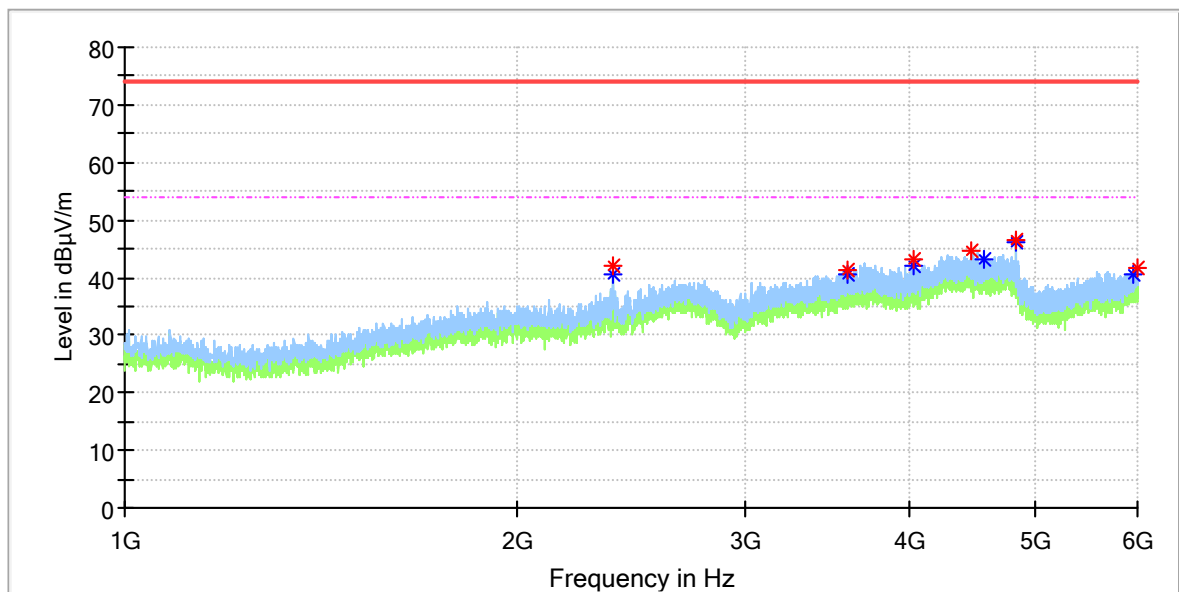


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3452.500000	---	40.43	54.00	13.57	100.0	V	58.0	-1.3
2425.000000	---	45.87	54.00	8.13	100.0	V	78.0	-5.6
2425.000000	46.22	---	74.00	27.78	100.0	V	78.0	-5.6
5995.000000	42.60	---	74.00	31.40	100.0	V	100.0	2.4
5995.000000	---	41.72	54.00	12.28	100.0	V	100.0	2.4
3751.500000	42.46	---	74.00	31.54	100.0	V	109.0	0.1
2658.500000	42.03	---	74.00	31.97	100.0	V	166.0	-3.2
4767.000000	---	42.90	54.00	11.10	100.0	V	180.0	2.9
3687.500000	---	41.62	54.00	12.38	100.0	V	204.0	0.2
4330.000000	45.47	---	74.00	28.53	100.0	V	279.0	2.2
4330.000000	---	45.04	54.00	8.96	100.0	V	279.0	2.2
4654.500000	43.98	---	74.00	30.02	100.0	V	293.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

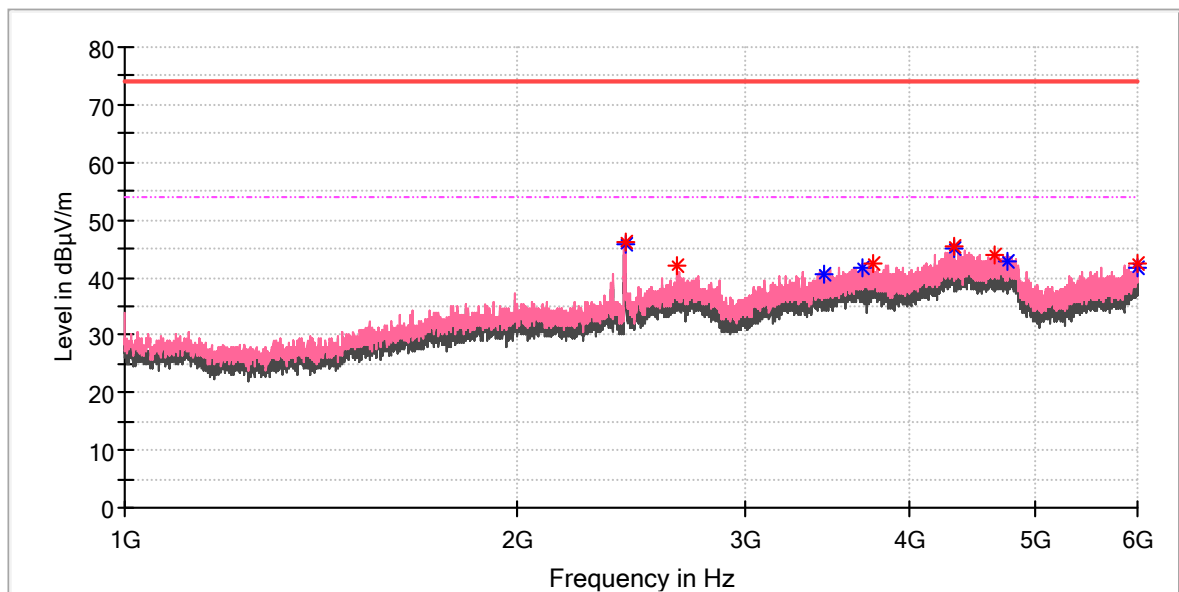


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2373.500000	---	40.63	54.00	13.37	100.0	H	41.0	-6.0
2373.500000	41.91	---	74.00	32.09	100.0	H	41.0	-6.0
4844.500000	46.67	---	74.00	27.33	100.0	H	122.0	1.7
4844.500000	---	46.26	54.00	7.74	100.0	H	122.0	1.7
5998.500000	41.75	---	74.00	32.25	100.0	H	144.0	2.5
3589.000000	---	40.47	54.00	13.53	100.0	H	159.0	-0.7
3589.000000	41.27	---	74.00	32.73	100.0	H	159.0	-0.7
4473.500000	44.52	---	74.00	29.48	100.0	H	211.0	2.0
5951.500000	---	40.47	54.00	13.53	100.0	H	245.0	2.1
4043.000000	43.08	---	74.00	30.92	100.0	H	288.0	0.4
4043.000000	---	42.12	54.00	11.88	100.0	H	288.0	0.4
4572.000000	---	43.31	54.00	10.69	100.0	H	333.0	1.9

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

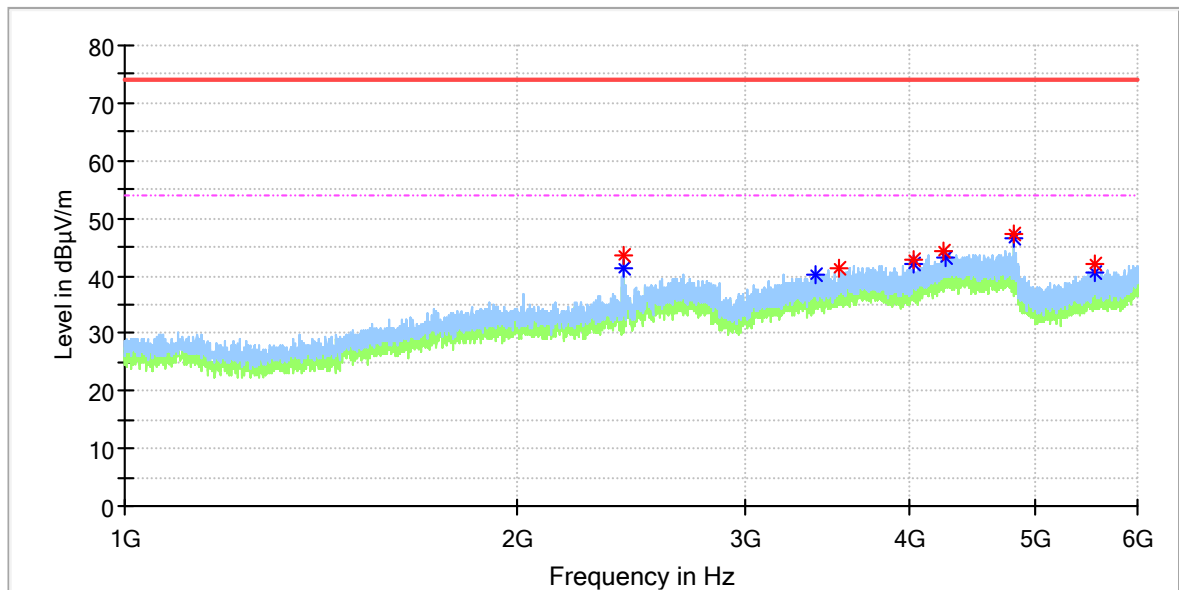


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3452.500000	---	40.43	54.00	13.57	100.0	V	58.0	-1.3
2425.000000	---	45.87	54.00	8.13	100.0	V	78.0	-5.6
2425.000000	46.22	---	74.00	27.78	100.0	V	78.0	-5.6
5995.000000	42.60	---	74.00	31.40	100.0	V	100.0	2.4
5995.000000	---	41.72	54.00	12.28	100.0	V	100.0	2.4
3751.500000	42.46	---	74.00	31.54	100.0	V	109.0	0.1
2658.500000	42.03	---	74.00	31.97	100.0	V	166.0	-3.2
4767.000000	---	42.90	54.00	11.10	100.0	V	180.0	2.9
3687.500000	---	41.62	54.00	12.38	100.0	V	204.0	0.2
4330.000000	45.47	---	74.00	28.53	100.0	V	279.0	2.2
4330.000000	---	45.04	54.00	8.96	100.0	V	279.0	2.2
4654.500000	43.98	---	74.00	30.02	100.0	V	293.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

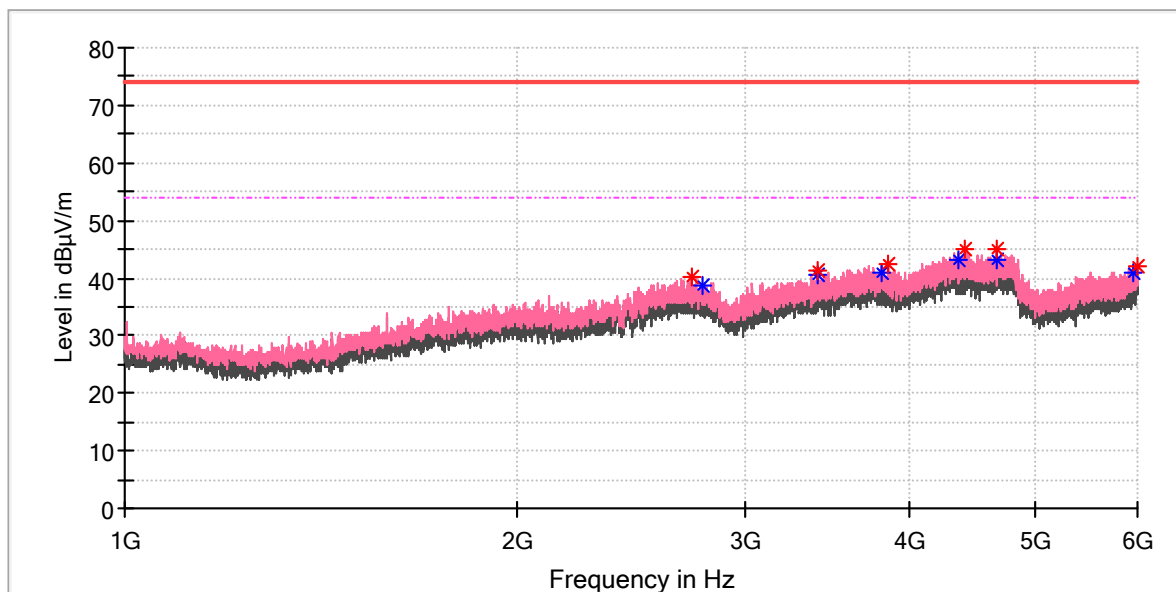


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.500000	---	46.46	54.00	7.54	100.0	H	83.0	2.0
4824.500000	47.37	---	74.00	26.63	100.0	H	83.0	2.0
3390.500000	---	40.02	54.00	13.98	100.0	H	93.0	-1.6
3535.500000	41.16	---	74.00	32.84	100.0	H	106.0	-0.9
4039.000000	---	41.89	54.00	12.11	100.0	H	106.0	0.3
4039.000000	42.75	---	74.00	31.25	100.0	H	106.0	0.3
2414.000000	---	41.37	54.00	12.63	100.0	H	178.0	-5.6
2415.500000	43.37	---	74.00	30.63	100.0	H	178.0	-5.6
5569.500000	41.93	---	74.00	32.07	100.0	H	272.0	1.0
5569.500000	---	40.71	54.00	13.29	100.0	H	272.0	1.0
4265.500000	---	43.20	54.00	10.80	100.0	H	286.0	2.0
4252.500000	44.26	---	74.00	29.74	100.0	H	319.0	1.8

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



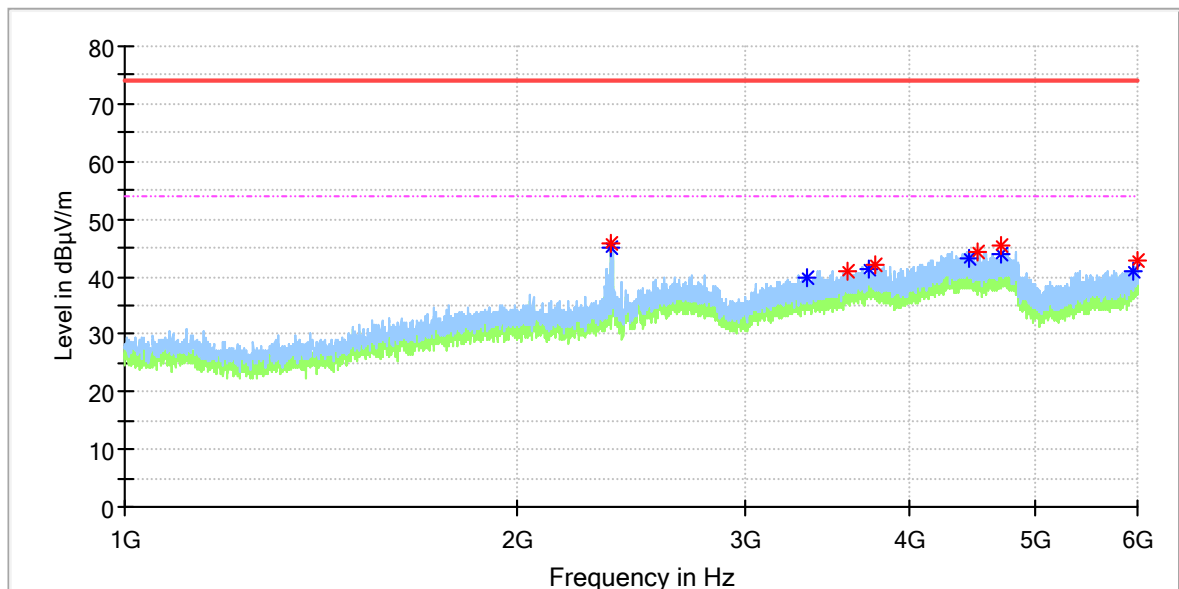
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4373.000000	---	43.16	54.00	10.84	100.0	V	58.0	2.0
2722.500000	40.33	---	74.00	33.67	100.0	V	150.0	-3.2
4683.000000	44.93	---	74.00	29.07	100.0	V	150.0	2.5
2774.500000	---	38.72	54.00	15.28	100.0	V	173.0	-3.4
4669.000000	---	43.16	54.00	10.84	100.0	V	183.0	2.4
3861.000000	42.33	---	74.00	31.67	100.0	V	192.0	0.0
4420.000000	44.93	---	74.00	29.07	100.0	V	192.0	1.9
5989.000000	42.03	---	74.00	31.97	100.0	V	222.0	2.4
3814.500000	---	40.99	54.00	13.01	100.0	V	272.0	0.0
5959.500000	---	41.06	54.00	12.94	100.0	V	300.0	2.1
3403.000000	---	40.71	54.00	13.29	100.0	V	323.0	-1.5
3403.000000	41.46	---	74.00	32.54	100.0	V	323.0	-1.5

Model RAK7268V2H with Lora module RAK5146

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

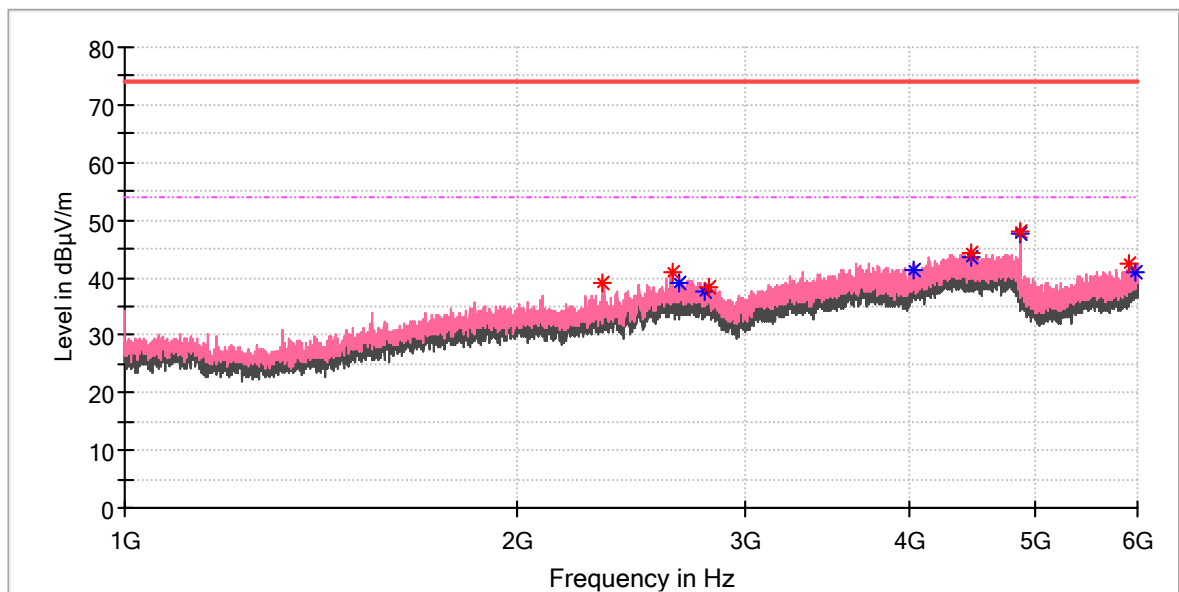


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2363.500000	---	44.87	54.00	9.13	100.0	H	55.0	-6.0
2364.500000	45.89	---	74.00	28.11	100.0	H	55.0	-6.0
3337.500000	---	39.87	54.00	14.13	100.0	H	126.0	-1.8
3585.500000	41.06	---	74.00	32.94	100.0	H	326.0	-0.7
3724.500000	---	41.25	54.00	12.75	100.0	H	286.0	0.3
3767.500000	42.06	---	74.00	31.94	100.0	H	41.0	0.1
4456.500000	---	43.32	54.00	10.68	100.0	H	65.0	2.0
4529.000000	44.40	---	74.00	29.60	100.0	H	311.0	2.0
4714.000000	---	44.07	54.00	9.93	100.0	H	174.0	2.7
4714.000000	45.29	---	74.00	28.71	100.0	H	174.0	2.7
5944.500000	---	41.02	54.00	12.98	100.0	H	253.0	2.0
5998.000000	42.94	---	74.00	31.06	100.0	H	145.0	2.5

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

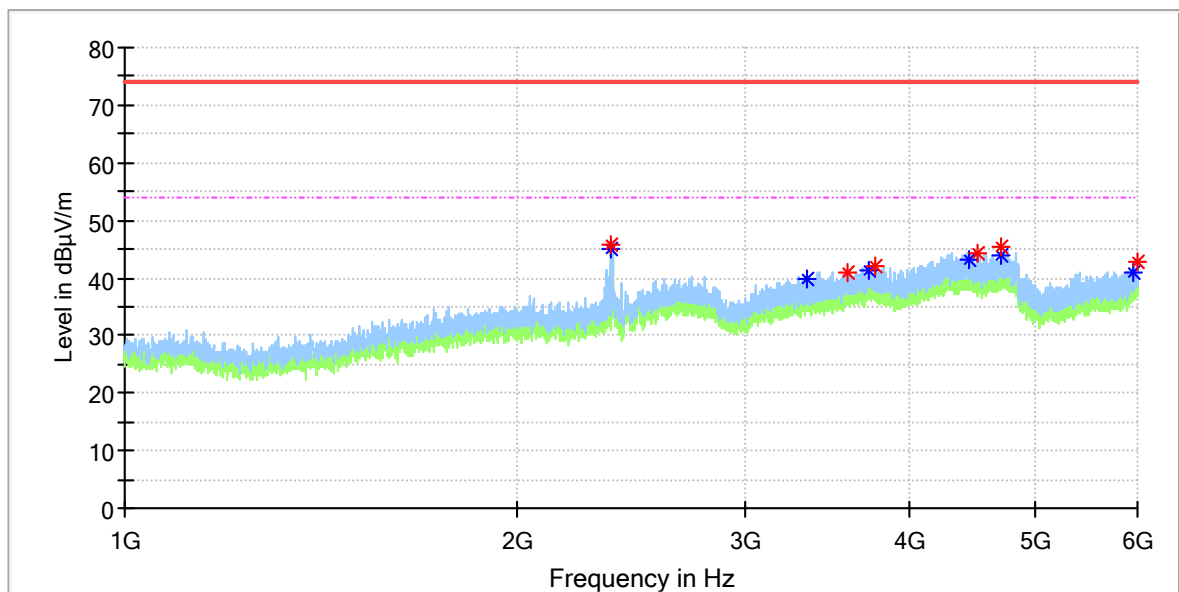


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2332.000000	39.09	---	74.00	34.91	100.0	V	263.0	-6.4
2634.500000	40.97	---	74.00	33.03	100.0	V	210.0	-3.5
2666.000000	---	39.20	54.00	14.80	100.0	V	11.0	-3.3
2788.500000	---	37.58	54.00	16.42	100.0	V	114.0	-3.7
2810.000000	38.40	---	74.00	35.60	100.0	V	143.0	-3.8
4032.000000	---	41.40	54.00	12.60	100.0	V	177.0	0.3
4466.000000	---	43.46	54.00	10.54	100.0	V	215.0	2.0
4466.000000	44.29	---	74.00	29.71	100.0	V	215.0	2.0
4874.500000	---	47.60	54.00	6.40	100.0	V	346.0	1.3
4874.500000	47.88	---	74.00	26.12	100.0	V	346.0	1.3
5919.500000	42.43	---	74.00	31.57	100.0	V	286.0	1.8
5969.500000	---	41.00	54.00	13.00	100.0	V	105.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: ICES-003 issue 7
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

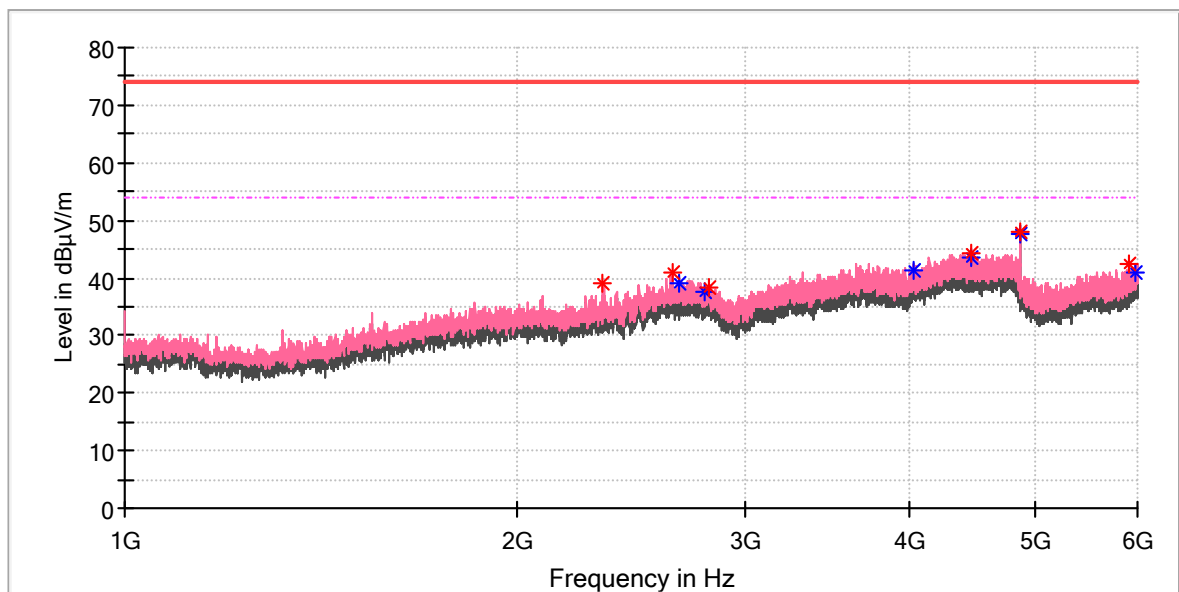


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2363.500000	---	44.87	54.00	9.13	100.0	H	55.0	-6.0
2364.500000	45.89	---	74.00	28.11	100.0	H	55.0	-6.0
3337.500000	---	39.87	54.00	14.13	100.0	H	126.0	-1.8
3585.500000	41.06	---	74.00	32.94	100.0	H	326.0	-0.7
3724.500000	---	41.25	54.00	12.75	100.0	H	286.0	0.3
3767.500000	42.06	---	74.00	31.94	100.0	H	41.0	0.1
4456.500000	---	43.32	54.00	10.68	100.0	H	65.0	2.0
4529.000000	44.40	---	74.00	29.60	100.0	H	311.0	2.0
4714.000000	---	44.07	54.00	9.93	100.0	H	174.0	2.7
4714.000000	45.29	---	74.00	28.71	100.0	H	174.0	2.7
5944.500000	---	41.02	54.00	12.98	100.0	H	253.0	2.0
5998.000000	42.94	---	74.00	31.06	100.0	H	145.0	2.5

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: ICES-003 issue 7
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

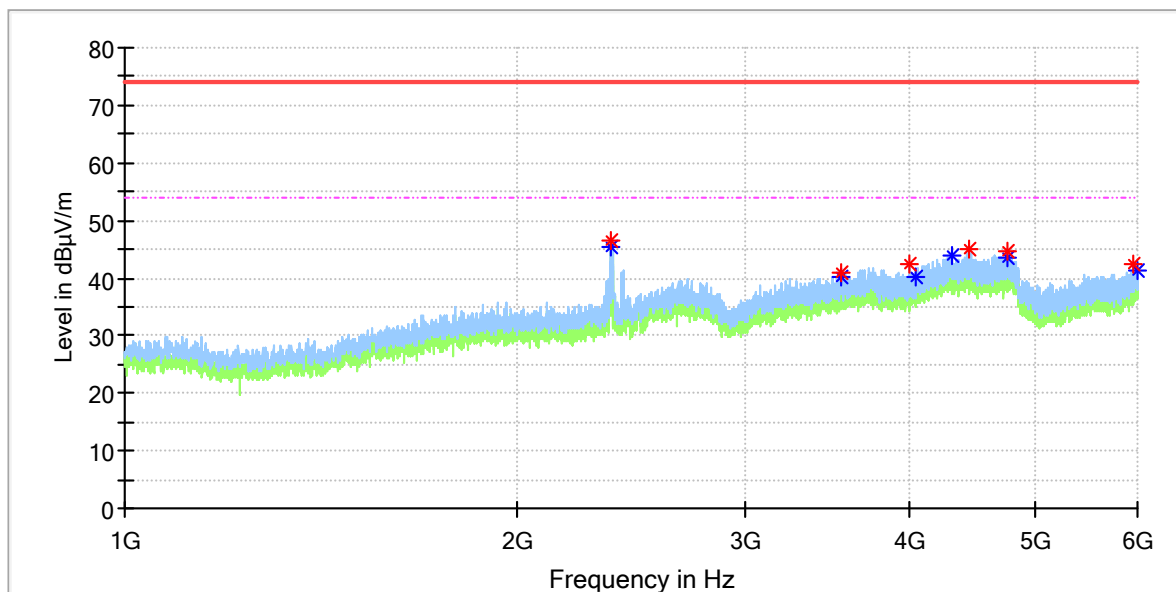


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2332.000000	39.09	---	74.00	34.91	100.0	V	263.0	-6.4
2634.500000	40.97	---	74.00	33.03	100.0	V	210.0	-3.5
2666.000000	---	39.20	54.00	14.80	100.0	V	11.0	-3.3
2788.500000	---	37.58	54.00	16.42	100.0	V	114.0	-3.7
2810.000000	38.40	---	74.00	35.60	100.0	V	143.0	-3.8
4032.000000	---	41.40	54.00	12.60	100.0	V	177.0	0.3
4466.000000	---	43.46	54.00	10.54	100.0	V	215.0	2.0
4466.000000	44.29	---	74.00	29.71	100.0	V	215.0	2.0
4874.500000	---	47.60	54.00	6.40	100.0	V	346.0	1.3
4874.500000	47.88	---	74.00	26.12	100.0	V	346.0	1.3
5919.500000	42.43	---	74.00	31.57	100.0	V	286.0	1.8
5969.500000	---	41.00	54.00	13.00	100.0	V	105.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

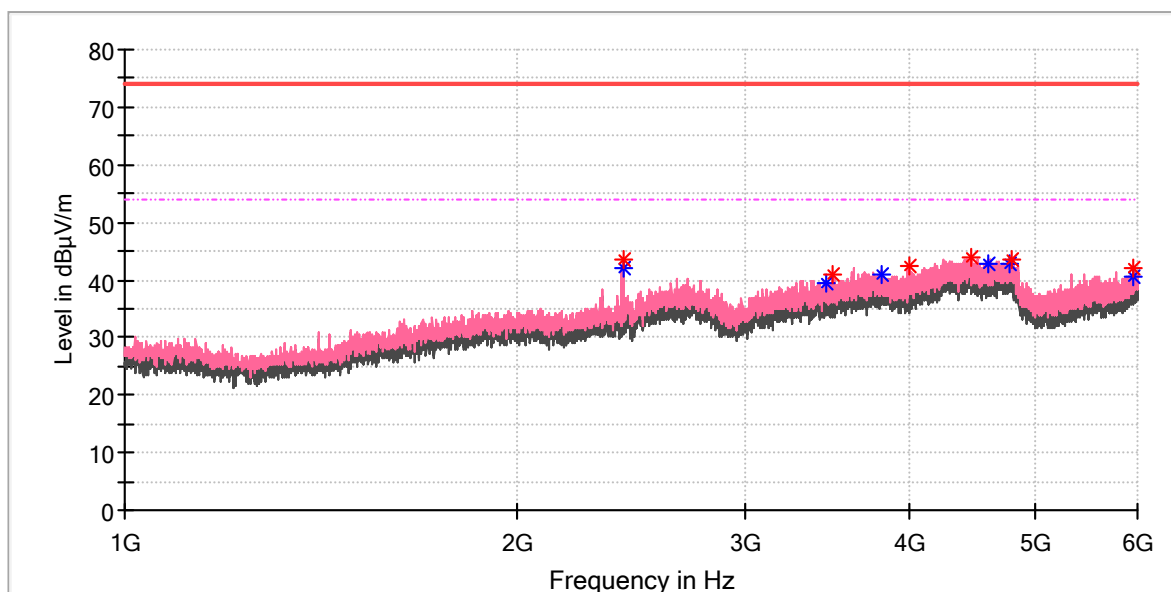


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4769.000000	---	43.70	54.00	10.30	100.0	H	42.0	2.9
4769.000000	44.57	---	74.00	29.43	100.0	H	42.0	2.9
4319.000000	---	43.79	54.00	10.21	100.0	H	55.0	2.2
4054.000000	---	40.08	54.00	13.92	100.0	H	88.0	0.5
3548.500000	41.03	---	74.00	32.97	100.0	H	107.0	-0.8
3548.500000	---	40.37	54.00	13.63	100.0	H	107.0	-0.8
5991.500000	---	41.19	54.00	12.81	100.0	H	139.0	2.4
4460.000000	44.96	---	74.00	29.04	100.0	H	154.0	2.0
5952.000000	42.42	---	74.00	31.58	100.0	H	292.0	2.1
2364.000000	---	45.48	54.00	8.52	100.0	H	356.0	-6.0
2364.000000	46.40	---	74.00	27.60	100.0	H	356.0	-6.0
4014.500000	42.25	---	74.00	31.75	100.0	H	356.0	0.1

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268V2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



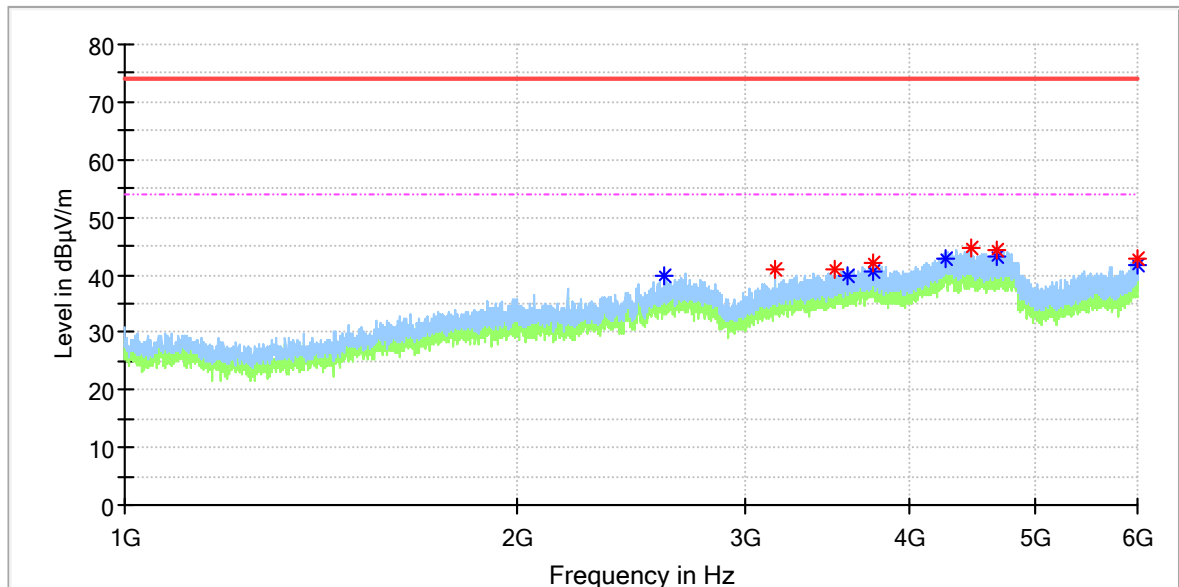
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3819.000000	---	40.99	54.00	13.01	100.0	V	5.0	0.0
3499.500000	40.76	---	74.00	33.24	100.0	V	33.0	-1.1
4788.500000	---	42.86	54.00	11.14	100.0	V	55.0	2.6
4615.500000	---	42.92	54.00	11.08	100.0	V	88.0	2.0
5962.500000	41.87	---	74.00	32.13	100.0	V	120.0	2.2
5962.500000	---	40.66	54.00	13.34	100.0	V	120.0	2.2
2413.000000	43.45	---	74.00	30.55	100.0	V	126.0	-5.6
2413.500000	---	42.22	54.00	11.78	100.0	V	126.0	-5.6
4468.000000	43.88	---	74.00	30.12	100.0	V	204.0	2.0
4804.500000	43.69	---	74.00	30.31	100.0	V	256.0	2.3
3458.000000	---	39.30	54.00	14.70	100.0	V	345.0	-1.3
4012.500000	42.47	---	74.00	31.53	100.0	V	352.0	0.1

Model RAK7268CV2H with Lora module RAK2287X

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

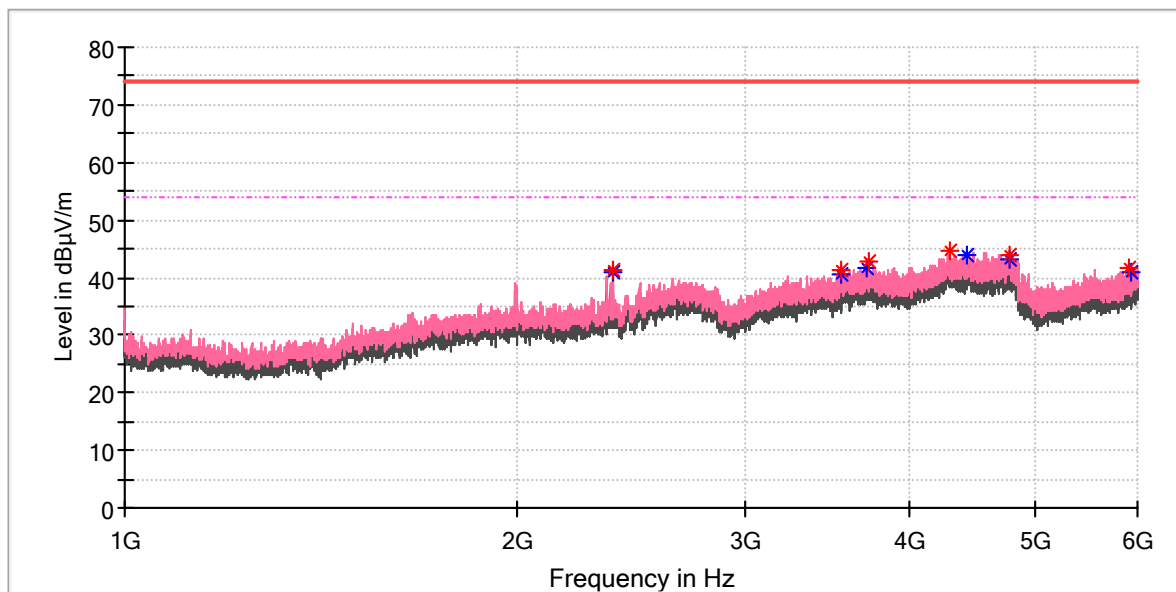


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2596.000000	---	39.89	54.00	14.11	100.0	H	81.0	-3.8
3592.500000	---	39.82	54.00	14.18	100.0	H	100.0	-0.6
3513.000000	40.99	---	74.00	33.01	100.0	H	118.0	-1.0
4271.500000	---	42.93	54.00	11.07	100.0	H	127.0	2.0
3160.500000	40.80	---	74.00	33.20	100.0	H	206.0	-2.6
4685.500000	---	43.30	54.00	10.70	100.0	H	230.0	2.5
4685.500000	44.29	---	74.00	29.71	100.0	H	230.0	2.5
3753.500000	---	40.50	54.00	13.50	100.0	H	243.0	0.1
3753.500000	42.13	---	74.00	31.87	100.0	H	243.0	0.1
5991.500000	---	41.56	54.00	12.44	100.0	H	293.0	2.4
5991.500000	42.79	---	74.00	31.21	100.0	H	293.0	2.4
4464.000000	44.57	---	74.00	29.43	100.0	H	352.0	2.0

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

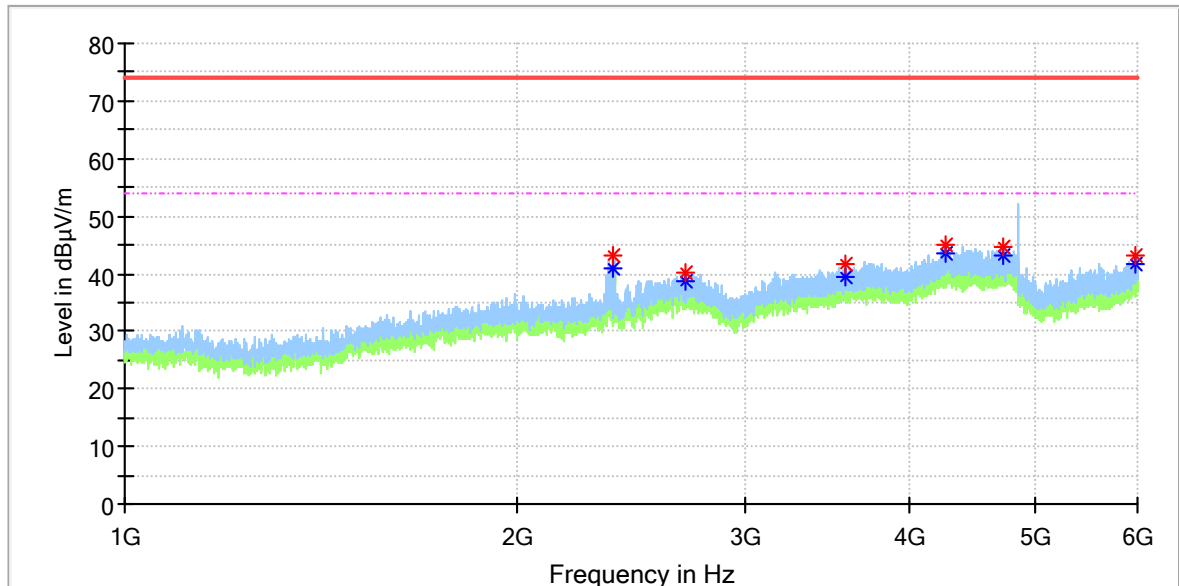


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5933.000000	---	41.03	54.00	12.97	100.0	V	0.0	1.9
5908.000000	41.80	---	74.00	32.20	100.0	V	4.0	1.6
3734.000000	42.69	---	74.00	31.31	100.0	V	53.0	0.2
3714.500000	---	41.67	54.00	12.33	100.0	V	86.0	0.3
4304.000000	44.70	---	74.00	29.30	100.0	V	166.0	2.2
3553.000000	---	40.44	54.00	13.56	100.0	V	242.0	-0.8
3553.000000	41.23	---	74.00	32.77	100.0	V	242.0	-0.8
2374.500000	---	40.87	54.00	13.13	100.0	V	279.0	-6.0
2374.500000	41.29	---	74.00	32.71	100.0	V	279.0	-6.0
4781.500000	43.95	---	74.00	30.05	100.0	V	294.0	2.7
4781.500000	---	43.29	54.00	10.71	100.0	V	294.0	2.7
4443.500000	---	44.02	54.00	9.98	100.0	V	312.0	1.9

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

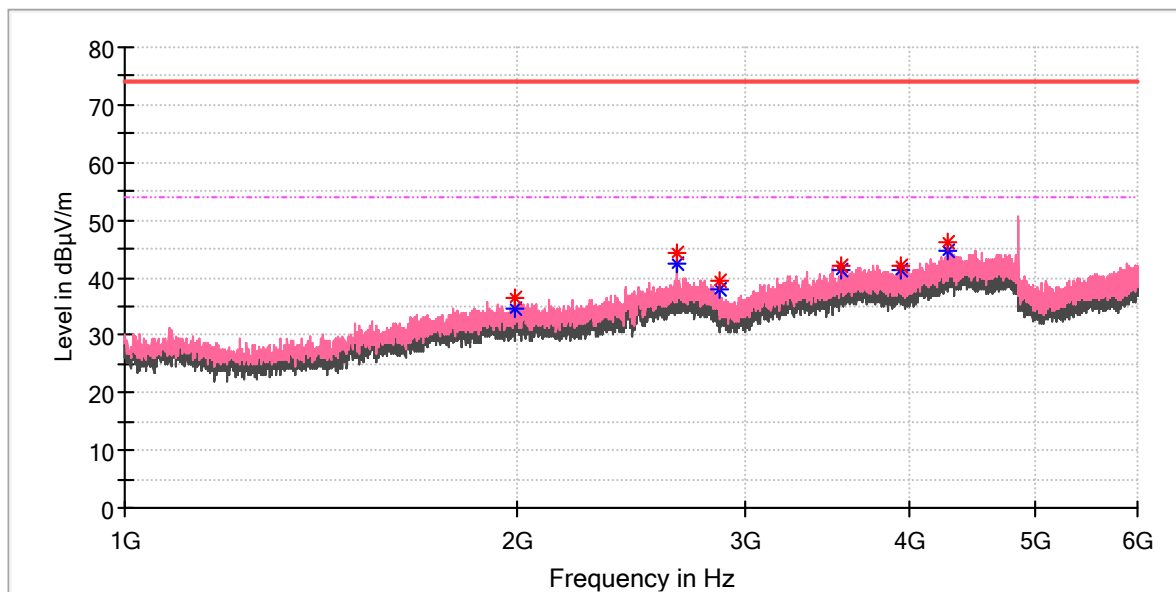


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2369.500000	43.35	---	74.00	30.65	100.0	H	267.0	-6.0
2369.500000	---	40.85	54.00	13.15	100.0	H	267.0	-6.0
2695.000000	---	38.77	54.00	15.23	100.0	H	92.0	-3.2
2695.000000	40.25	---	74.00	33.75	100.0	H	92.0	-3.2
3576.000000	---	39.50	54.00	14.50	100.0	H	143.0	-0.7
3576.000000	41.68	---	74.00	32.32	100.0	H	143.0	-0.7
4273.000000	---	43.65	54.00	10.35	100.0	H	216.0	2.0
4273.000000	44.98	---	74.00	29.02	100.0	H	216.0	2.0
4737.000000	44.63	---	74.00	29.37	100.0	H	296.0	2.8
4737.000000	---	43.18	54.00	10.82	100.0	H	296.0	2.8
5988.500000	42.99	---	74.00	31.01	100.0	H	162.0	2.4
5988.500000	---	41.61	54.00	12.39	100.0	H	162.0	2.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

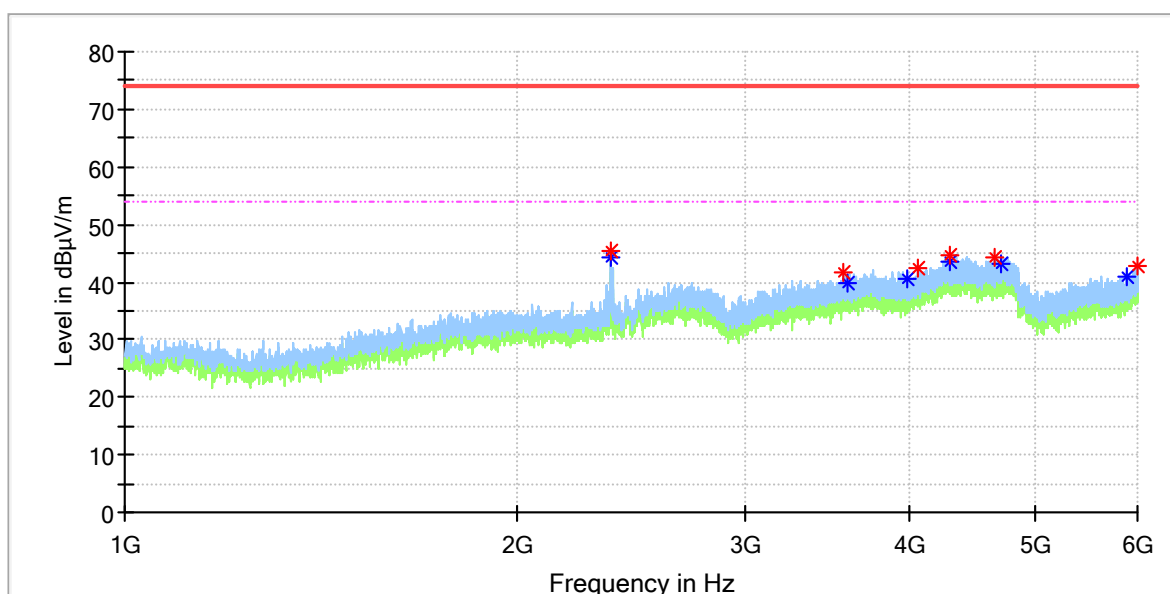


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1996.000000	---	34.49	54.00	19.51	100.0	V	236.0	-7.4
1996.000000	36.28	---	74.00	37.72	100.0	V	236.0	-7.4
2658.000000	---	42.59	54.00	11.41	100.0	V	163.0	-3.2
2658.000000	44.22	---	74.00	29.78	100.0	V	163.0	-3.2
2861.500000	---	38.09	54.00	15.91	100.0	V	55.0	-4.6
2861.500000	39.26	---	74.00	34.74	100.0	V	55.0	-4.6
3558.000000	42.06	---	74.00	31.94	100.0	V	240.0	-0.8
3558.000000	---	41.21	54.00	12.79	100.0	V	240.0	-0.8
3954.000000	42.18	---	74.00	31.82	100.0	V	326.0	-0.2
3954.000000	---	41.42	54.00	12.58	100.0	V	326.0	-0.2
4295.000000	45.99	---	74.00	28.01	100.0	V	27.0	2.2
4295.000000	---	44.81	54.00	9.19	100.0	V	27.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

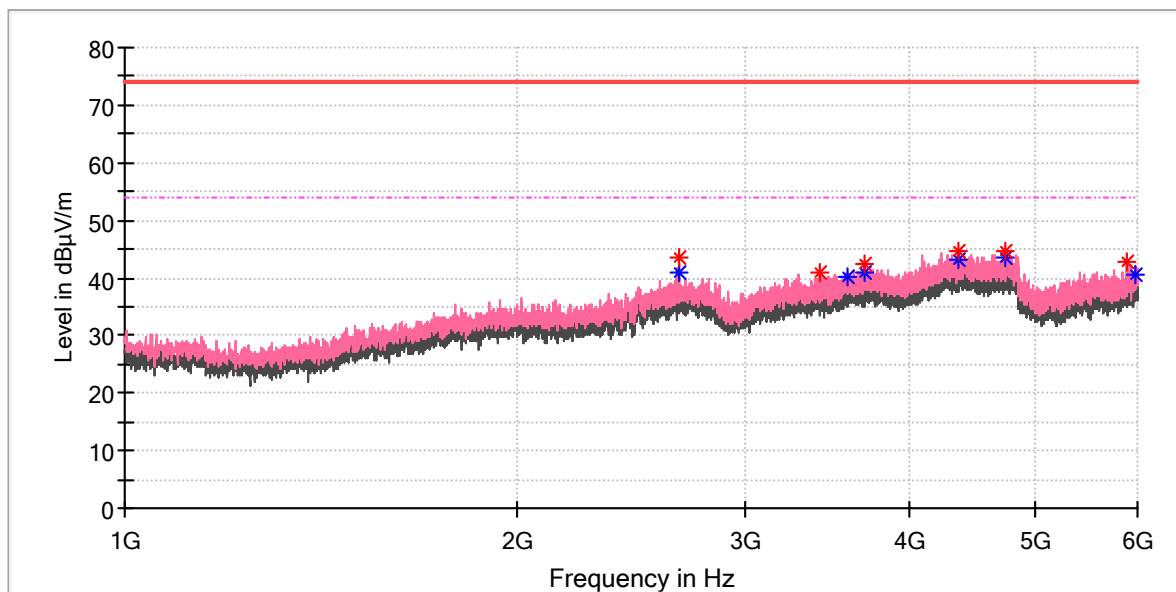


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5893.500000	---	40.76	54.00	13.24	100.0	H	0.0	1.5
3986.000000	---	40.68	54.00	13.32	100.0	H	5.0	-0.1
4715.000000	---	43.27	54.00	10.73	100.0	H	5.0	2.7
4067.500000	42.50	---	74.00	31.50	100.0	H	33.0	0.7
5992.500000	42.85	---	74.00	31.15	100.0	H	33.0	2.4
3564.000000	41.52	---	74.00	32.48	100.0	H	78.0	-0.8
4662.500000	44.22	---	74.00	29.78	100.0	H	153.0	2.3
3590.000000	---	39.96	54.00	14.04	100.0	H	234.0	-0.7
2364.000000	---	44.17	54.00	9.83	100.0	H	306.0	-6.0
2364.000000	45.41	---	74.00	28.59	100.0	H	306.0	-6.0
4306.500000	---	43.59	54.00	10.41	100.0	H	335.0	2.2
4306.500000	44.82	---	74.00	29.18	100.0	H	335.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



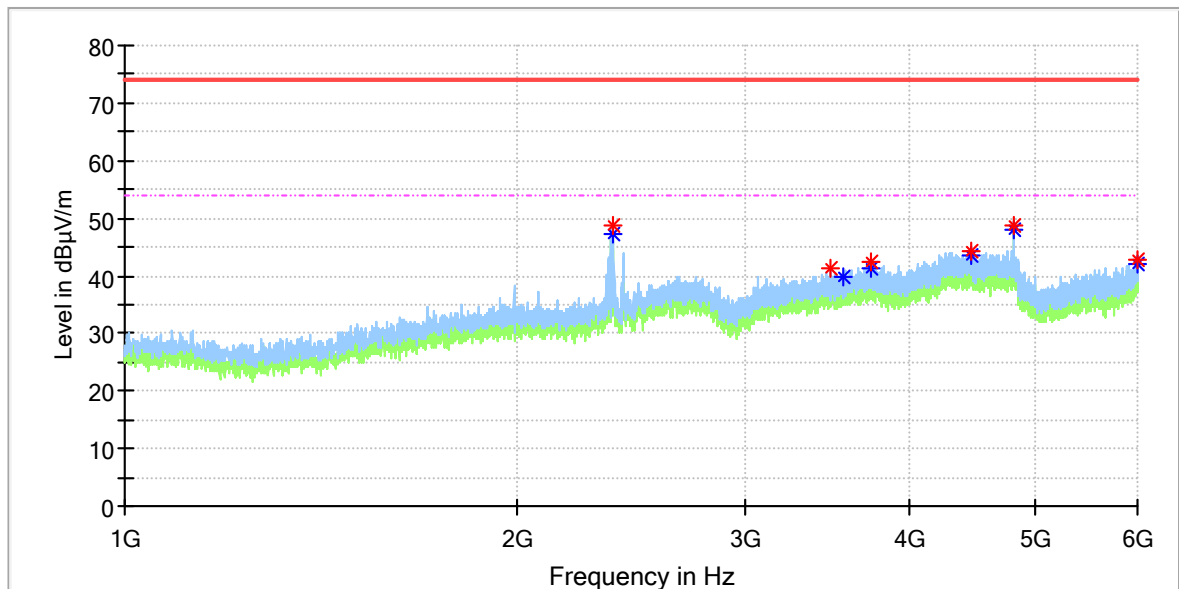
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5967.000000	---	40.73	54.00	13.27	100.0	V	15.0	2.2
3587.500000	---	40.01	54.00	13.99	100.0	V	90.0	-0.7
3705.000000	---	41.09	54.00	12.91	100.0	V	90.0	0.3
3415.000000	40.93	---	74.00	33.07	100.0	V	114.0	-1.5
3703.500000	42.46	---	74.00	31.54	100.0	V	166.0	0.3
2665.500000	43.46	---	74.00	30.54	100.0	V	180.0	-3.3
2666.000000	---	40.92	54.00	13.08	100.0	V	180.0	-3.3
4750.500000	---	43.51	54.00	10.49	100.0	V	184.0	2.9
4750.500000	44.75	---	74.00	29.25	100.0	V	184.0	2.9
5895.000000	42.68	---	74.00	31.32	100.0	V	218.0	1.5
4378.500000	---	43.22	54.00	10.79	100.0	V	314.0	2.0
4378.500000	44.53	---	74.00	29.47	100.0	V	314.0	2.0

Model RAK7268CV2H with Lora module RAK5146

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

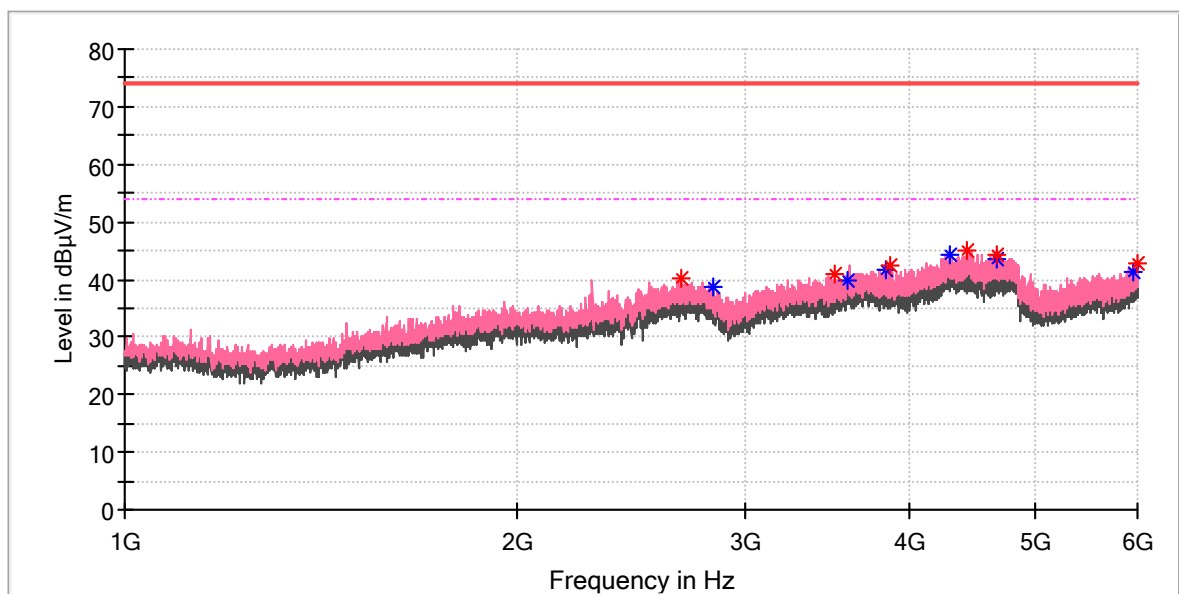


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2372.500000	48.80	---	74.00	25.20	100.0	H	268.0	-6.0
2372.500000	---	47.40	54.00	6.60	100.0	H	268.0	-6.0
3482.500000	41.12	---	74.00	32.88	100.0	H	84.0	-1.2
3563.500000	---	39.68	54.00	14.32	100.0	H	4.0	-0.8
3746.000000	42.37	---	74.00	31.63	100.0	H	112.0	0.2
3746.000000	---	41.18	54.00	12.82	100.0	H	112.0	0.2
4478.000000	---	43.63	54.00	10.37	100.0	H	141.0	2.0
4478.000000	44.24	---	74.00	29.76	100.0	H	141.0	2.0
4824.500000	---	48.11	54.00	5.89	100.0	H	107.0	2.0
4824.500000	48.77	---	74.00	25.23	100.0	H	107.0	2.0
5995.500000	42.97	---	74.00	31.03	100.0	H	164.0	2.4
5995.500000	---	41.91	54.00	12.09	100.0	H	164.0	2.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating Adapter
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber
AC/DC Adapter: AD-0241200200US-1

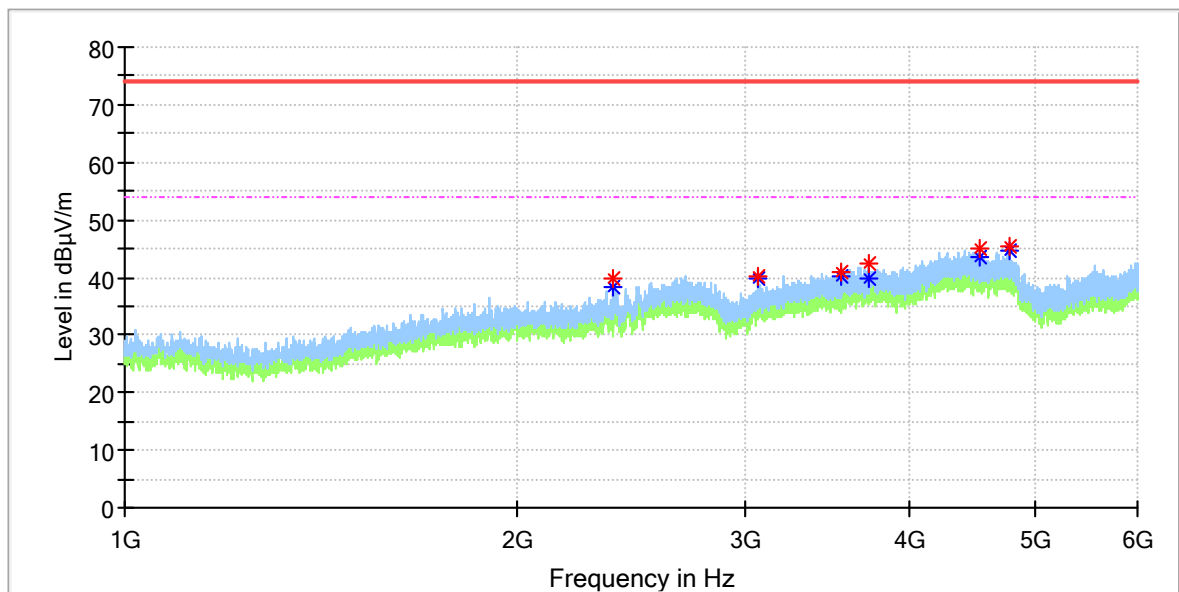


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2677.500000	40.27	---	74.00	33.73	100.0	V	229.0	-3.2
2827.500000	---	38.73	54.00	15.27	100.0	V	141.0	-4.3
3512.500000	40.88	---	74.00	33.12	100.0	V	0.0	-1.0
3591.000000	---	39.72	54.00	14.28	100.0	V	290.0	-0.6
3839.500000	---	41.51	54.00	12.49	100.0	V	8.0	0.0
3866.500000	42.57	---	74.00	31.43	100.0	V	295.0	0.0
4310.000000	---	44.33	54.00	9.67	100.0	V	97.0	2.2
4438.500000	45.17	---	74.00	28.83	100.0	V	304.0	1.9
4684.500000	44.45	---	74.00	29.55	100.0	V	160.0	2.5
4684.500000	---	43.40	54.00	10.60	100.0	V	160.0	2.5
5956.000000	---	41.24	54.00	12.76	100.0	V	88.0	2.1
5997.000000	42.70	---	74.00	31.30	100.0	V	262.0	2.4

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

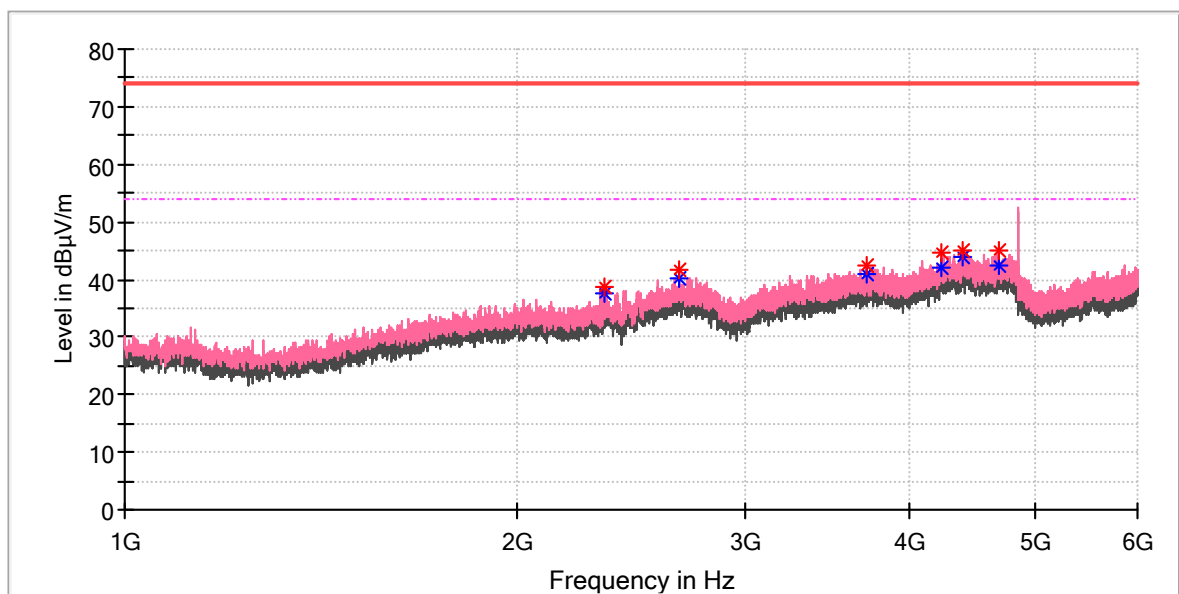


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2369.000000	39.69	---	74.00	34.31	100.0	H	149.0	-6.0
2369.000000	---	38.47	54.00	15.53	100.0	H	149.0	-6.0
3068.500000	40.28	---	74.00	33.72	100.0	H	124.0	-3.2
3068.500000	---	39.74	54.00	14.26	100.0	H	124.0	-3.2
3553.000000	---	40.03	54.00	13.97	100.0	H	96.0	-0.8
3553.000000	40.97	---	74.00	33.03	100.0	H	96.0	-0.8
3729.500000	---	39.75	54.00	14.25	100.0	H	10.0	0.2
3729.500000	42.39	---	74.00	31.61	100.0	H	10.0	0.2
4543.000000	45.00	---	74.00	29.00	100.0	H	0.0	2.0
4543.000000	---	43.54	54.00	10.46	100.0	H	0.0	2.0
4779.500000	---	44.64	54.00	9.36	100.0	H	210.0	2.7
4779.500000	45.38	---	74.00	28.62	100.0	H	210.0	2.7

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By./Review By: Mac Xie/Gary Chen
Tem./Hum./Pressure: 24.0°C/52.1%/101kPa
Remark: 3m chamber
AC/DC Adapter: PSYC1202000

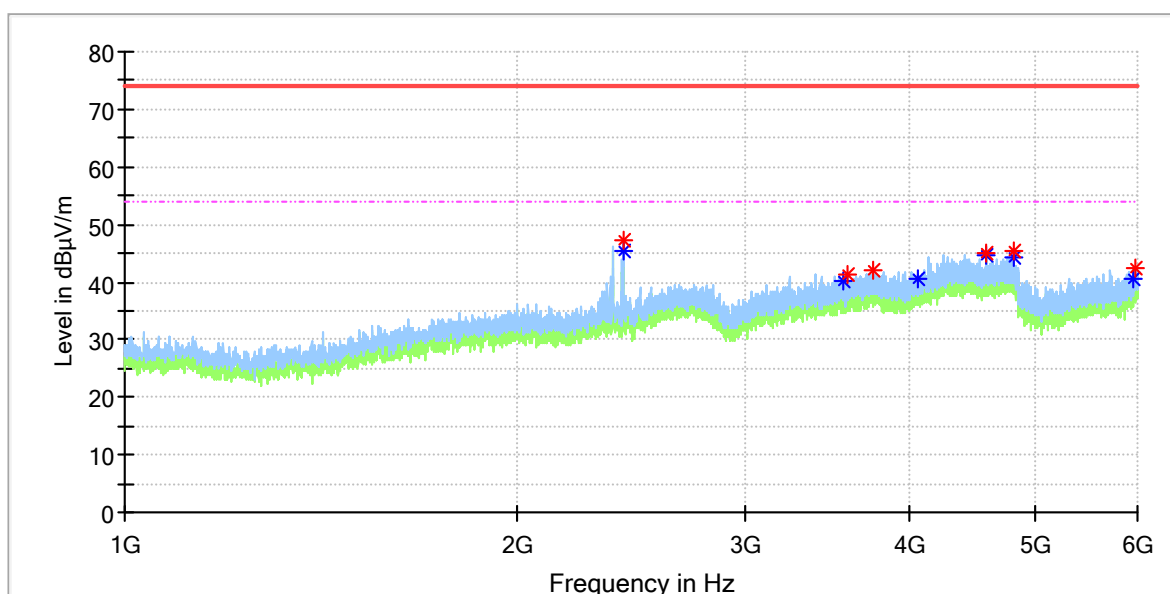


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2335.500000	38.64	---	74.00	35.36	100.0	V	18.0	-6.4
2335.500000	---	37.61	54.00	16.39	100.0	V	18.0	-6.4
2663.500000	---	40.15	54.00	13.85	100.0	V	93.0	-3.3
2663.500000	41.72	---	74.00	32.28	100.0	V	93.0	-3.3
3717.500000	42.53	---	74.00	31.47	100.0	V	69.0	0.3
3717.500000	---	41.05	54.00	12.95	100.0	V	69.0	0.3
4247.500000	44.76	---	74.00	29.24	100.0	V	79.0	1.8
4247.500000	---	41.97	54.00	12.03	100.0	V	79.0	1.8
4408.500000	---	43.96	54.00	10.04	100.0	V	265.0	1.9
4408.500000	45.08	---	74.00	28.92	100.0	V	265.0	1.9
4695.500000	45.03	---	74.00	28.97	100.0	V	270.0	2.6
4695.500000	---	42.53	54.00	11.47	100.0	V	270.0	2.6

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber

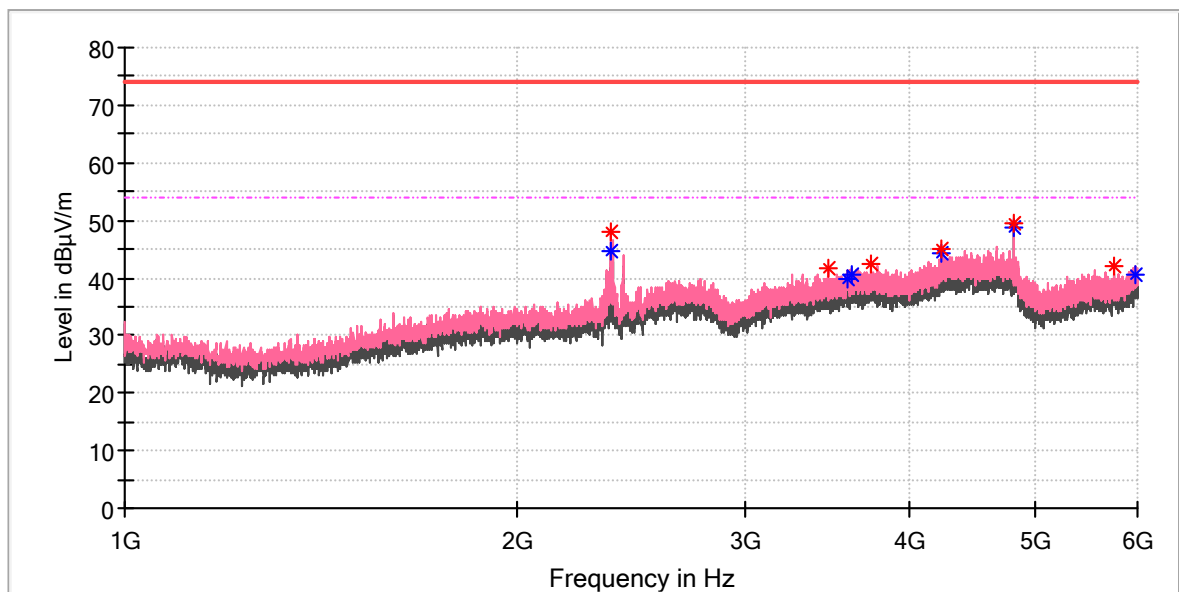


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2415.500000	47.12	---	74.00	26.88	100.0	H	206.0	-5.6
2417.000000	---	45.33	54.00	8.67	100.0	H	206.0	-5.6
3565.500000	---	40.31	54.00	13.69	100.0	H	0.0	-0.8
3586.000000	41.31	---	74.00	32.69	100.0	H	153.0	-0.7
3753.000000	42.11	---	74.00	31.89	100.0	H	96.0	0.1
4075.500000	---	40.74	54.00	13.26	100.0	H	321.0	0.8
4597.000000	---	44.67	54.00	9.33	100.0	H	66.0	1.9
4597.000000	45.13	---	74.00	28.87	100.0	H	66.0	1.9
4813.500000	45.31	---	74.00	28.69	100.0	H	321.0	2.2
4813.500000	---	44.32	54.00	9.68	100.0	H	321.0	2.2
5961.000000	---	40.74	54.00	13.26	100.0	H	302.0	2.2
5971.500000	42.45	---	74.00	31.55	100.0	H	159.0	2.2

EUT Information

EUT Name: WisGate Edge Lite 2
Model: RAK7268CV2H
Test Mode: Operating POE
Test Voltage: AC 120V/60Hz
Test By/Review By: Jianhua Lu/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 23.8°C/52.5%/101kPa
Remark: 3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2364.500000	---	44.69	54.00	9.31	100.0	V	143.0	-6.0
2365.000000	48.01	---	74.00	25.99	100.0	V	143.0	-6.0
3466.500000	41.68	---	74.00	32.32	100.0	V	49.0	-1.2
3588.000000	---	40.00	54.00	14.00	100.0	V	272.0	-0.7
3619.000000	---	40.54	54.00	13.46	100.0	V	59.0	-0.4
3744.500000	42.32	---	74.00	31.68	100.0	V	0.0	0.2
4246.500000	---	44.16	54.00	9.84	100.0	V	158.0	1.8
4246.500000	44.90	---	74.00	29.10	100.0	V	158.0	1.8
4824.500000	49.33	---	74.00	24.67	100.0	V	0.0	2.0
4824.500000	---	48.79	54.00	5.21	100.0	V	0.0	2.0
5759.000000	42.04	---	74.00	31.96	100.0	V	247.0	0.7
5973.500000	---	40.58	54.00	13.42	100.0	V	158.0	2.3