

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25XAIL 002	Auftrags-Nr.: <i>Order no.:</i>	168567670	Seite 1 von 15 <i>Page 1 of 15</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-07-17	
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 Soho Lite			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RAK7266 (Trademark: )			
Auftrags-Inhalt: <i>Order content:</i>	CIIPC and C4PC			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15.247 CFR Title 47 FCC Part 22 CFR Title 47 FCC Part 24 CFR Title 47 FCC Part 27		RSS-247 Issue 3 RSS-130 Issue 2 RSS-132 Issue 4 RSS-133 Issue 6 RSS-139 Issue 4	
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-07-29	Refer to photos documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004050424-008			
Prüfzeitraum: <i>Testing period:</i>	2025-07-29 - 2025-08-28			
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>	 Hardy Suo		genehmigt von: <i>authorized by:</i>	 Lin Lin
Datum: <i>Date:</i>	2025-09-09		Ausstellungsdatum: <i>Issue date:</i>	2025-09-09
Stellung / Position	Sachverständige(r)/Expert		Stellung / Position	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AF6B-RAK634, IC: 25908-RAK634 HVIN: RAK7266, HMN: RAK7266 *The LTE module, Wi-Fi module and Lora module are combination in a new host, the co-located radiated spurious emission testing was performed. * * This product contains transmitter modules, refer to clause 3.2 for details.			
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			
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 only relates to the a. m. test sample. Without permission of the test center this is not permitted to be duplicated in extracts. This does not entitle to carry any test mark.</i>				

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
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 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 . 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 RADIATED SPURIOUS EMISSIONS

RESULT: Pass

5.1.2 CONDUCTED 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 Set-up Photos

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Test Site Number: CN1260

ISED Test Lab CAB identifier:CN0078

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Cal. Date (DD.MM.YYYY)	Cal. until (DD.MM.YYYY)
G1826021	EMI Test Receiver	R&S	ESR 7	102021	29.09.2024	28.09.2025
G1826023	Signal Analyzer	R&S	FSV 40	101439	29.09.2024	28.09.2025
G1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
G1826025	Filterbank	R&S	Wlan	100759	29.09.2024	28.09.2025
G1826026	OSP	R&S	OSP 120	102040	N/A	N/A
G1826028	Pre-amplifier	R&S	SCU08F1	08320031	29.09.2024	28.09.2025
G1826029	Amplifier	R&S	SCU-18F	180070	29.09.2024	28.09.2025
G1826030	Amplifier	R&S	SCU40A	100475	29.09.2024	28.09.2025
G1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	28.09.2024	27.09.2026
G1826032	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	28.09.2024	27.09.2026
G1826033	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	28.09.2024	27.09.2026
G1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	28.09.2024	27.09.2026
G1826036	Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
G1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
G1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	14.09.2024	13.09.2027

Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2026-07-18
Artificial Mains Network	R&S	ENV432	101546	2026-02-09
Artificial Mains Network	R&S	ENV432	101411	2026-07-18
Impedance Stabilisation Network	R&S	ENY81	100323	2026-05-15
Shield Cable (9k-30MHz)	N/A	N/A	N/A	2025-12-20
EMC32 test software	R&S	EMC32 (Ver.10.50.00)	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW500	165340	2025-09-25

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

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
RF output power, conducted	$\pm 0.99 \text{ dB}$
RF power density, conducted	$\pm 0.99 \text{ dB}$
Unwanted Emissions, conducted	$\pm 0.89 \text{ dB}$
All emissions, radiated	$\pm 4.17 \text{ dB}$
Conducted Emission (9kHz to 150kHz)/(150kHz to 30MHz)	$\pm 3.70 \text{ dB} / \pm 3.30 \text{ dB}$

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 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 a WisGate X Industrial which supports Lora, 2.4GHz Wi-Fi and LTE wireless technologies.

Contains FCC ID: XMR2023EG915QNA, 2AF6B-RAK2287X, 2AF6B-RAK634

Contains IC: 10224A-023EG915QNA, 25908-RAK2287X, 25908-RAK634

Remark:

- 1) This product assembles a LoRa Concentrator Module (M/N: RAK2287X) without change than it was approved
- 2) This product assembles a Wi-Fi Module (M/N: RAK634) without change than it was approved
- 3) This product assembles a LTE module (M/N: EG915Q-NA) without change than it was approved except a new LTE external and internal antenna

This report is for FCC CIIPC and ISED C4PC as multi-wireless modules installed into HOST WisGate Soho Lite (M/N: RAK7266), radiated spurious emissions for co-location were re-performed.

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	Description
Kind of Equipment:	WisGate Soho Lite
Type Designation:	RAK7266
HMN:	RAK7266
Operating Voltage:	DC 12V, 1A
Testing Voltage:	AC 120V, 60Hz (Power supply to external AC/DC adapter)
Operating Temperature Range:	-10 °C ~ +45 °C
AC/DC Adapter:	Model: AD-0241200200US-3 Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 2A, 24W Factory: Shenzhen AMC Technology Co., Ltd.
Remark: This product assembles multi-transmitter modules: - LTE Module (FCC ID: XMR2023EG915QNA, IC: 10224A-023EG915QNA) - LoRa Concentrator Module (FCC ID: 2AF6B-RAK2287X, IC: 25908-RAK2287X) - Wi-Fi Module (FCC ID: 2AF6B-RAK634, IC: 25908-RAK634)	
Technical Specification of 2.4GHz Wi-Fi	
Characteristic	Description
Operating Frequency	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)

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Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0-MCS15 for 802.11n(HT20) MCS0-MCS15 for 802.11n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 9 channels for 802.11n(HT40)
Antenna Number:	2
Antenna Gain:	PCB antenna (M/N: 6147F00013) with 3dBi (declared by client)
Model of contained Lora Module:	RAK634
FCC ID	2AF6B-RAK634
IC ID	25908-RAK634
Technical Specification of Contained LoRa Concentrator Module	
Characteristic	Description
Operating Frequency	923.3 - 927.5MHz for DTS LoRa 903.9 - 905.3MHz for Hybrid LoRa
Type of Modulation	FSK/LoRa
Data Rate:	Lora: SF7 – SF12 / DR8 – DR13, SF7 – SF10 / DR0 –DR3
Antenna Number:	1
Antenna Gain:	Dipole Antenna (M/N: RAKARJ14) with 2.3dBi (declared by client)
Model of contained Lora Module:	RAK2287X
FCC ID	2AF6B-RAK2287X
IC ID	25908-RAK2287X
Technical Specification of Contained LTE Module	
Characteristic	Description
Operating Frequency	LTE Band: 2, 5, 12, 13, 66
Type of Modulation	QPSK, 16QAM
Antenna Number:	2 (1 for MAIN ANT, 1 for DIV ANT)
Antenna Gain:	External ANT (Dipole antenna): 600MHz: 0.63dBi 824MHz: 1.58dBi 1710MHz: 1.25dBi Internal ANT (PCB antenna): 698MHz: 2.9dBi 720MHz: 2.8dBi 780MHz: 2.9dBi 820MHz: 1.0dBi 840MHz: 0.6dBi 1710MHz: 3.4dBi 1850MHz: 2.3dBi (declared by client)
Model of contained LTE module:	EG915Q-NA
FCC ID	XMR2023EG915QNA
IC ID	10224A-023EG915QNA

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, LTE Transmitting
- B. On, 2.4G WIFI + LTE + LoRa

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

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 C63.10:2020 + Cor.1-2023.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial Number or Rating
Portable Laptop	Lenovo	ThinkPad T480	10Q67059

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)

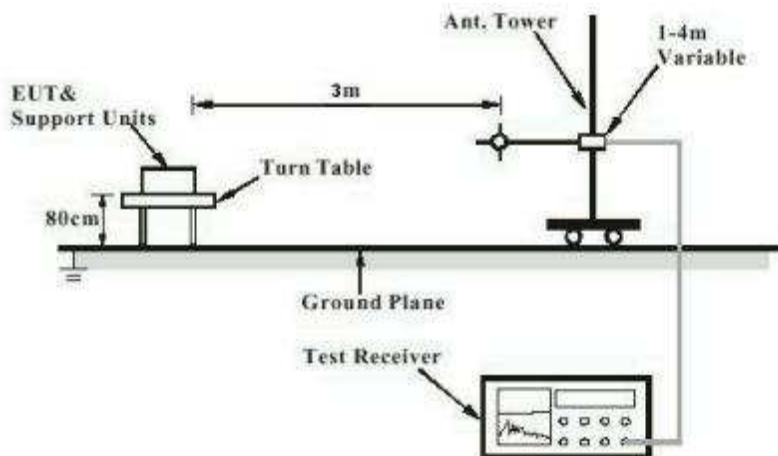


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

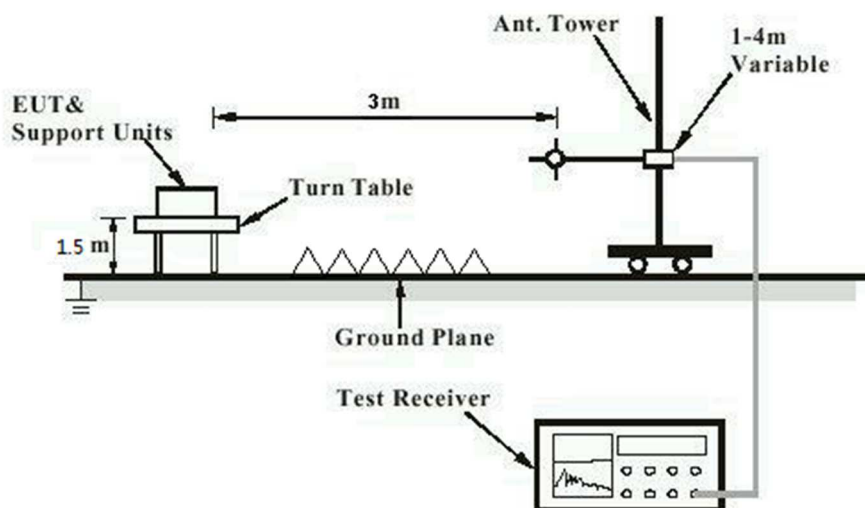
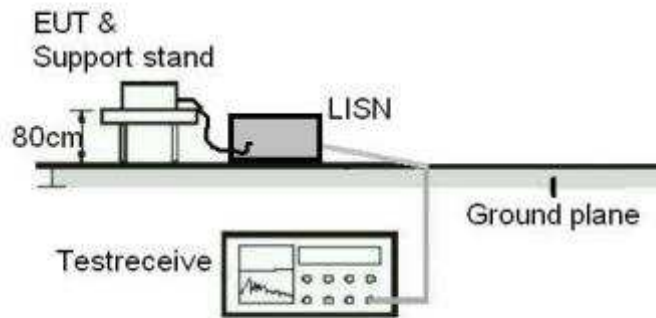


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

RESULT:

Pass

Test Specification

Test standard	:	CFR Title 47 FCC Part 15.247
		CFR Title 47 FCC Part 22
	:	CFR Title 47 FCC Part 24
		CFR Title 47 FCC Part 27
	:	RSS-247 Issue 3
		RSS-130 Issue 2
	:	RSS-132 Issue 4
		RSS-133 Issue 6
	:	RSS-139 Issue 4
Basic standard	:	ANSI C63.10:2020 + Cor.1-2023.
Limit	:	KDB 996369 D04
		The emissions not exceed the highest limit.
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2025-07-29 - 2025-08-28
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A, B
Earthing	:	Not Connected
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	101 kPa

Note: The test plots of Co-located radiated spurious emissions beyond the limit are the fundamental radio frequency of Lora and Wi-Fi.
For the measurement records, refer to the following plots, only the worst case mode are shown in this report.

For the measurement records, refer to the appendix A.

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5.1.2 Conducted emissions

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10:2020 + Cor.1-2023.
Frequency range	: 150KHz - 30MHz
Classification	: Class B
Limit	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-29 - 2025-08-28
Input voltage	: AC 120V, 60Hz
Operation mode	: 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 the following plots, only the worst case mode are shown in this report.

For the measurement records, refer to the appendix A.

6 List of Tables

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Appendix A: Test Results of Co-Tx

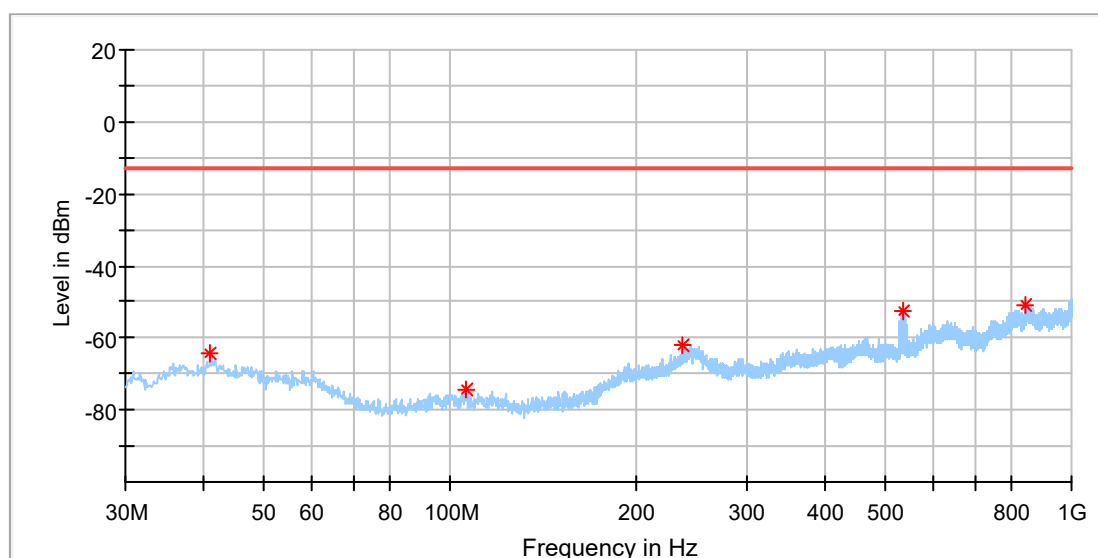
APPENDIX A: TEST RESULTS OF CO-TX.....	1
APPENDIX A.1: TEST RESULTS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN	2
<i>Radiated Transmitter Unwanted Emissions for LTE (Internal ANT), Below 1GHz</i>	<i>2</i>
<i>Radiated Transmitter Unwanted Emissions for LTE (External ANT), Below 1GHz.....</i>	<i>12</i>
<i>Radiated Transmitter Unwanted Emissions for Co-Tx, Below 1GHz.....</i>	<i>22</i>
<i>Radiated Transmitter Unwanted Emissions for LTE (Internal ANT), Above 1GHz</i>	<i>24</i>
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APPENDIX A.2: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	68

Appendix A.1: Test Results of Transmitter Unwanted Emissions in the Spurious Domain

Radiated Transmitter Unwanted Emissions for LTE (Internal ANT), Below 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

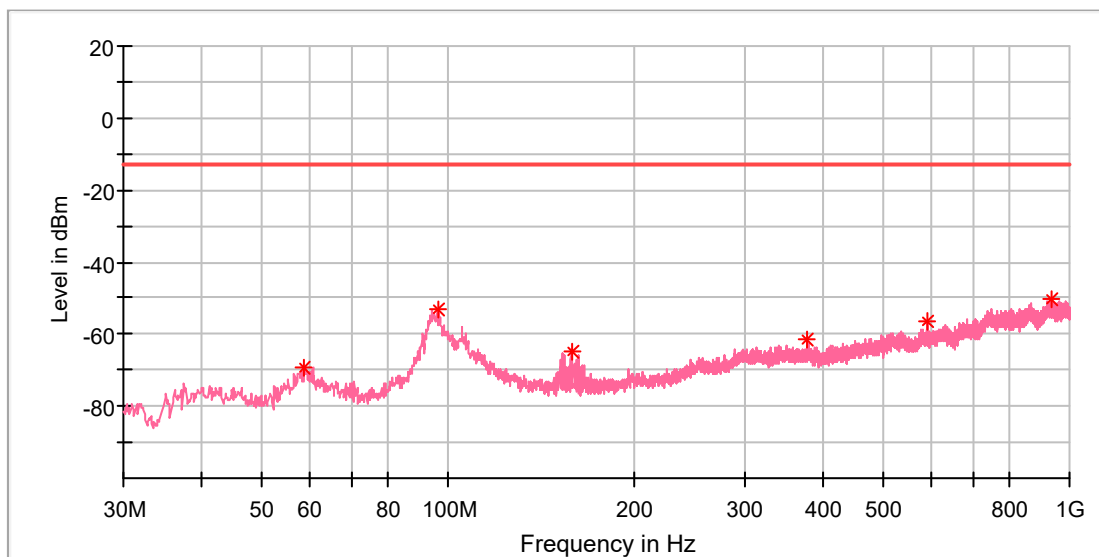


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.033750	-64.01	-13.00	51.01	100.0	H	319.0	-112.5
105.781250	-74.60	-13.00	61.60	100.0	H	212.0	-121.3
236.367500	-61.79	-13.00	48.79	100.0	H	215.0	-111.2
535.976250	-52.72	-13.00	39.72	100.0	H	221.0	-109.3
842.860000	-50.78	-13.00	37.78	100.0	H	141.0	-100.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

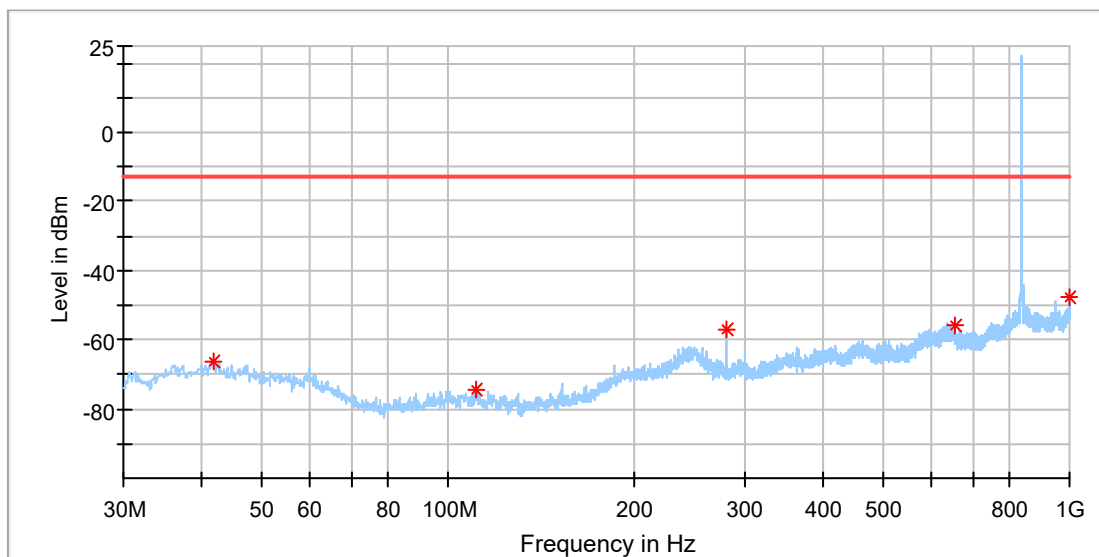


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
58.736250	-69.43	-13.00	56.43	100.0	V	313.0	-120.9
95.960000	-53.13	-13.00	40.13	100.0	V	302.0	-101.3
157.918750	-65.00	-13.00	52.00	100.0	V	109.0	-120.4
379.078750	-61.53	-13.00	48.53	100.0	V	64.0	-111.0
590.902500	-56.72	-13.00	43.72	100.0	V	14.0	-106.7
936.828750	-50.43	-13.00	37.43	100.0	V	0.0	-100.1

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

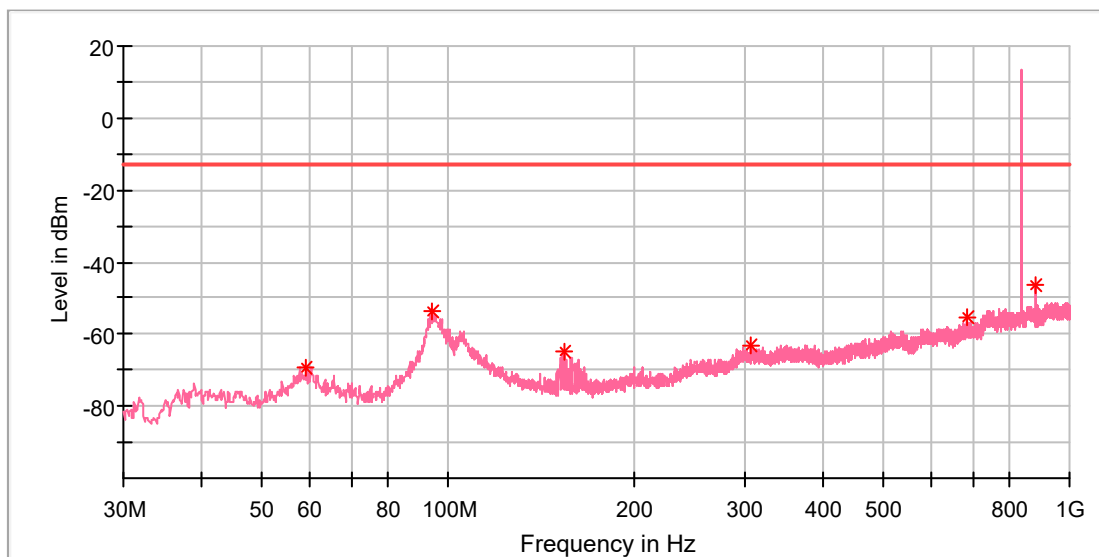


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.761250	-66.04	-13.00	53.04	100.0	H	236.0	-112.4
110.510000	-74.60	-13.00	61.60	100.0	H	236.0	-122.0
280.381250	-57.20	-13.00	44.20	100.0	H	33.0	-115.0
655.043750	-55.73	-13.00	42.73	100.0	H	80.0	-104.7
999.515000	-47.62	-13.00	34.62	100.0	H	197.0	-97.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

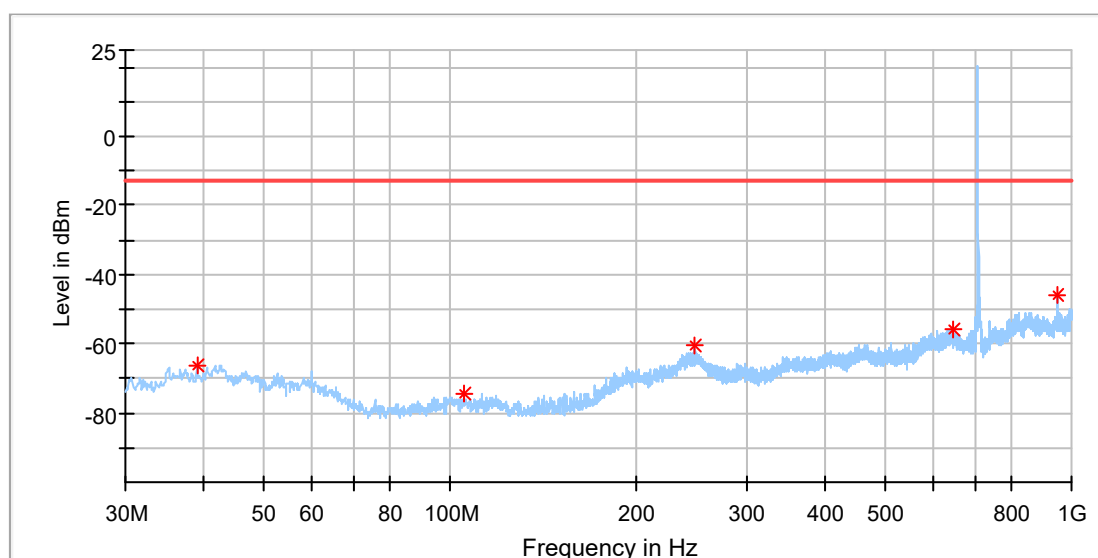


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.100000	-69.09	-13.00	56.09	100.0	V	36.0	-120.7
94.141250	-53.61	-13.00	40.61	100.0	V	205.0	-99.8
153.796250	-64.80	-13.00	51.80	100.0	V	9.0	-120.4
306.571250	-62.99	-13.00	49.99	100.0	V	224.0	-111.0
682.325000	-55.32	-13.00	42.32	100.0	V	171.0	-104.5
881.296250	-46.31	-13.00	33.31	100.0	V	120.0	-102.3

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

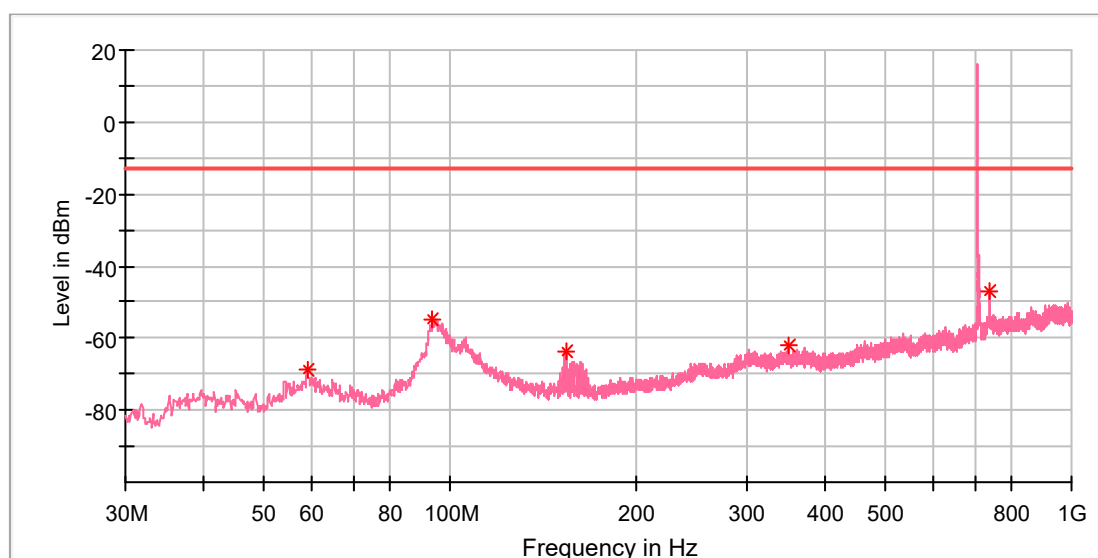


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
39.093750	-66.01	-13.00	53.01	100.0	H	66.0	-114.4
105.538750	-74.14	-13.00	61.14	100.0	H	95.0	-121.4
247.280000	-60.59	-13.00	47.59	100.0	H	207.0	-109.9
644.616250	-55.94	-13.00	42.94	100.0	H	0.0	-104.4
948.468750	-45.85	-13.00	32.85	100.0	H	29.0	-100.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

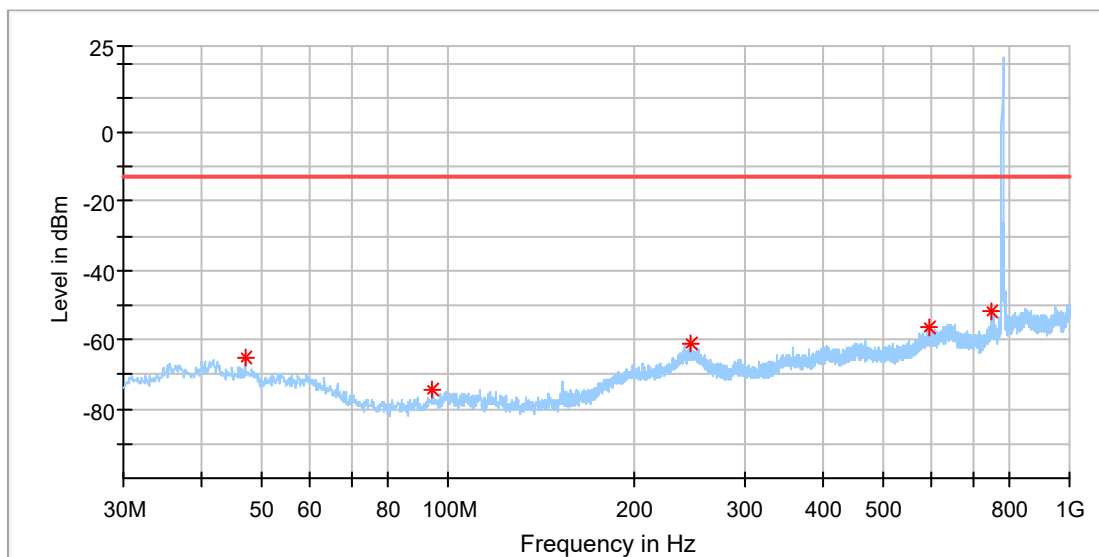


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
58.978750	-68.72	-13.00	55.72	100.0	V	21.0	-120.8
93.413750	-54.64	-13.00	41.64	100.0	V	353.0	-101.2
153.917500	-63.92	-13.00	50.92	100.0	V	316.0	-120.4
351.191250	-62.26	-13.00	49.26	100.0	V	112.0	-110.9
737.615000	-46.82	-13.00	33.82	100.0	V	290.0	-101.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

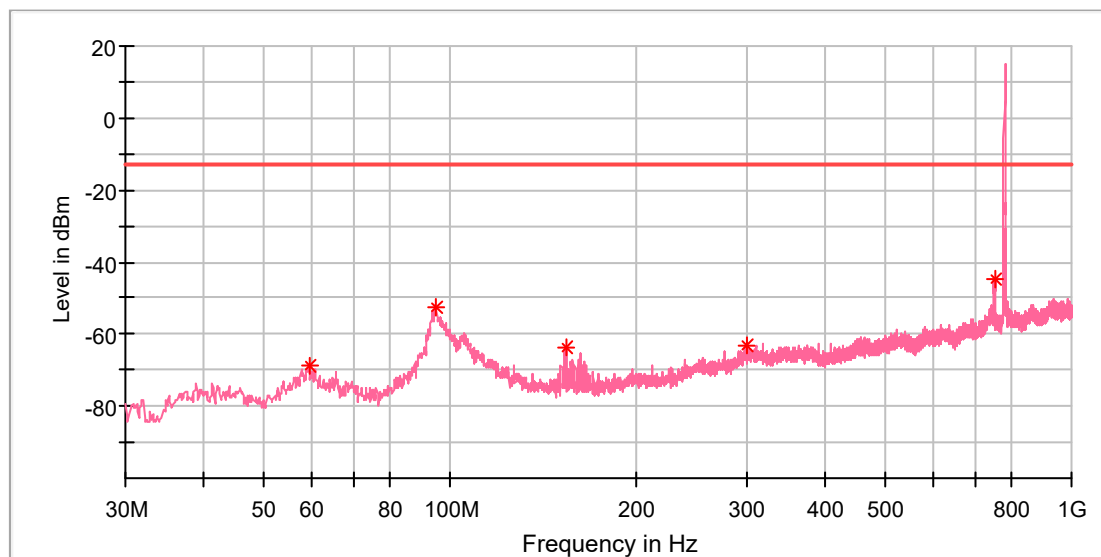


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
47.096250	-64.96	-13.00	51.96	100.0	H	196.0	-114.1
94.505000	-74.61	-13.00	61.61	100.0	H	76.0	-121.8
245.461250	-61.33	-13.00	48.33	100.0	H	297.0	-110.0
596.480000	-56.26	-13.00	43.26	100.0	H	263.0	-105.4
749.497500	-51.64	-13.00	38.64	100.0	H	110.0	-103.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

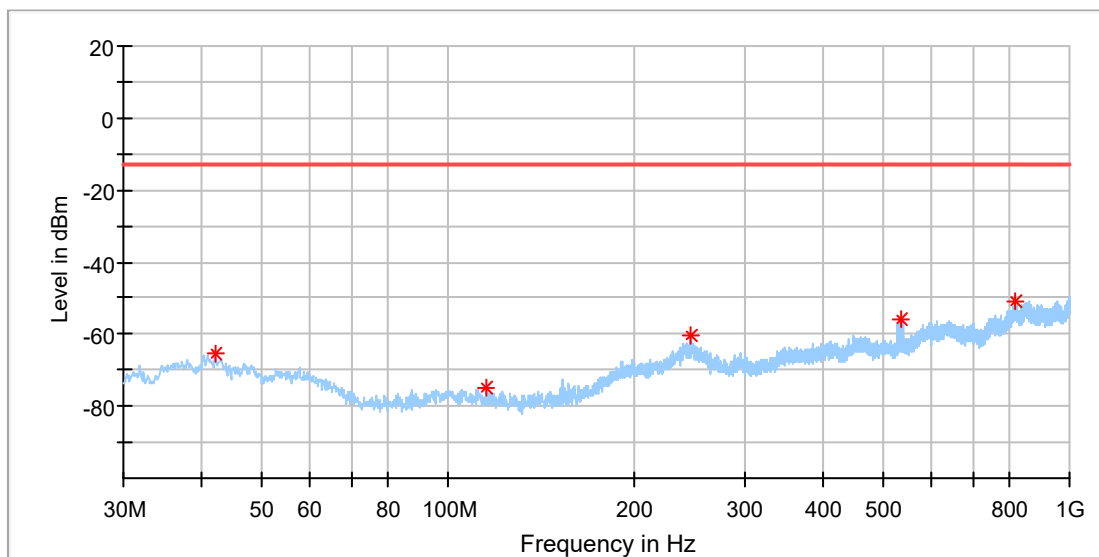


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.221250	-68.55	-13.00	55.55	100.0	V	72.0	-120.6
95.111250	-52.52	-13.00	39.52	100.0	V	172.0	-99.8
153.917500	-63.69	-13.00	50.69	100.0	V	64.0	-120.4
300.508750	-62.94	-13.00	49.94	100.0	V	0.0	-111.1
752.286250	-44.65	-13.00	31.65	100.0	V	265.0	-102.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

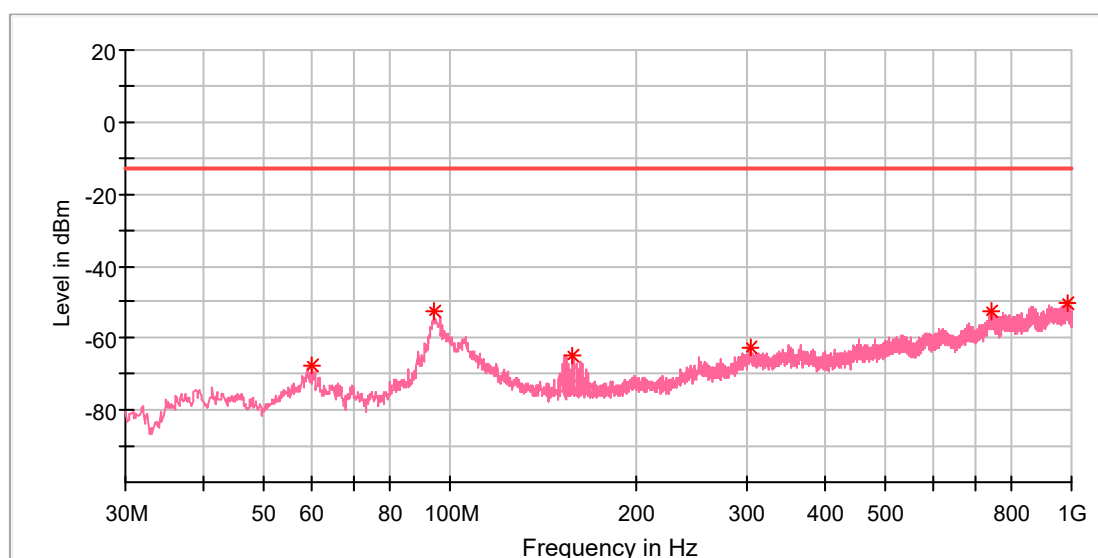


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.125000	-65.52	-13.00	52.52	100.0	H	87.0	-112.5
114.996250	-74.91	-13.00	61.91	100.0	H	59.0	-122.9
245.946250	-60.56	-13.00	47.56	100.0	H	202.0	-110.0
534.521250	-55.73	-13.00	42.73	100.0	H	0.0	-109.5
817.761250	-50.73	-13.00	37.73	100.0	H	133.0	-100.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



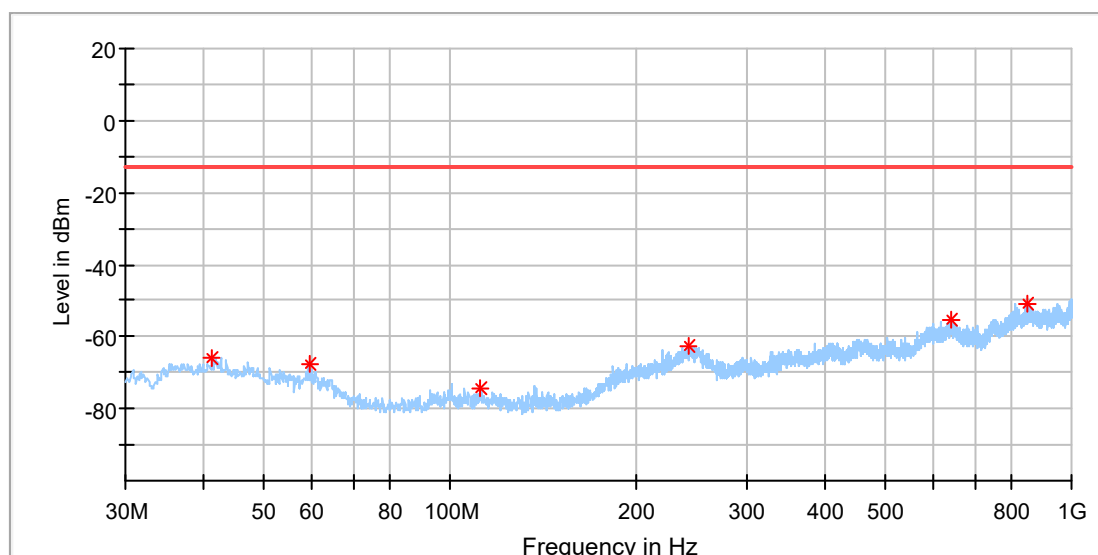
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.070000	-67.60	-13.00	54.60	100.0	V	107.0	-120.4
94.020000	-52.58	-13.00	39.58	100.0	V	0.0	-100.1
157.797500	-64.77	-13.00	51.77	100.0	V	43.0	-120.4
305.601250	-62.66	-13.00	49.66	100.0	V	313.0	-111.0
743.192500	-52.62	-13.00	39.62	100.0	V	74.0	-101.7
983.995000	-50.32	-13.00	37.33	100.0	V	113.0	-100.1

Radiated Transmitter Unwanted Emissions for LTE (External ANT), Below 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

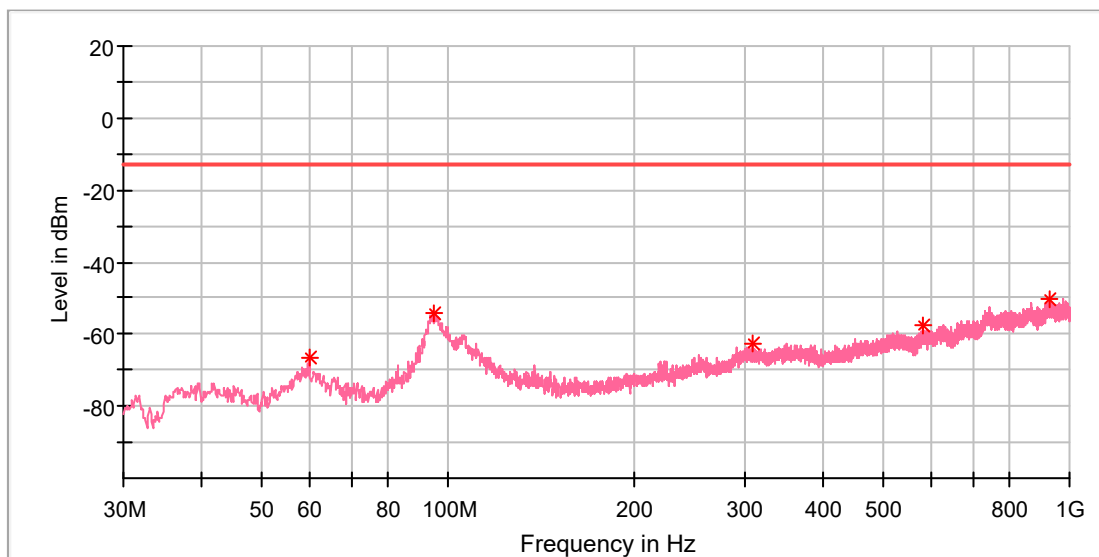


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.397500	-65.86	-13.00	52.86	100.0	H	307.0	-112.4
59.221250	-67.73	-13.00	54.73	100.0	H	195.0	-116.6
112.086250	-74.31	-13.00	61.31	100.0	H	297.0	-121.8
242.672500	-62.40	-13.00	49.40	100.0	H	192.0	-110.0
641.948750	-55.44	-13.00	42.44	100.0	H	6.0	-104.4
851.711250	-50.87	-13.00	37.87	100.0	H	28.0	-99.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

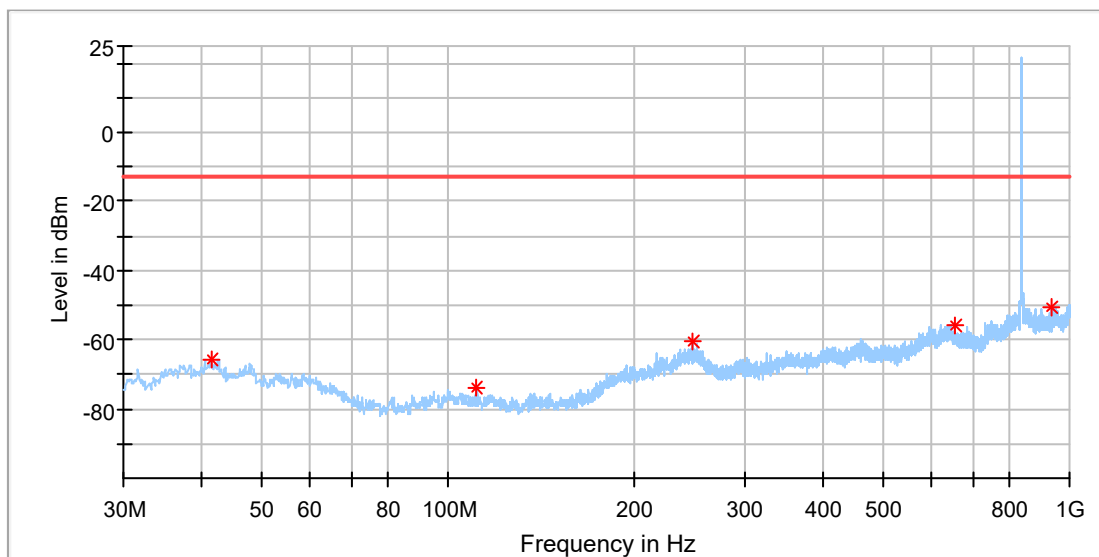


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.827500	-66.68	-13.00	53.68	100.0	V	129.0	-120.5
95.111250	-54.36	-13.00	41.36	100.0	V	308.0	-99.8
308.753750	-62.62	-13.00	49.62	100.0	V	149.0	-111.1
582.051250	-57.65	-13.00	44.65	100.0	V	60.0	-106.3
929.311250	-50.47	-13.00	37.47	100.0	V	274.0	-100.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

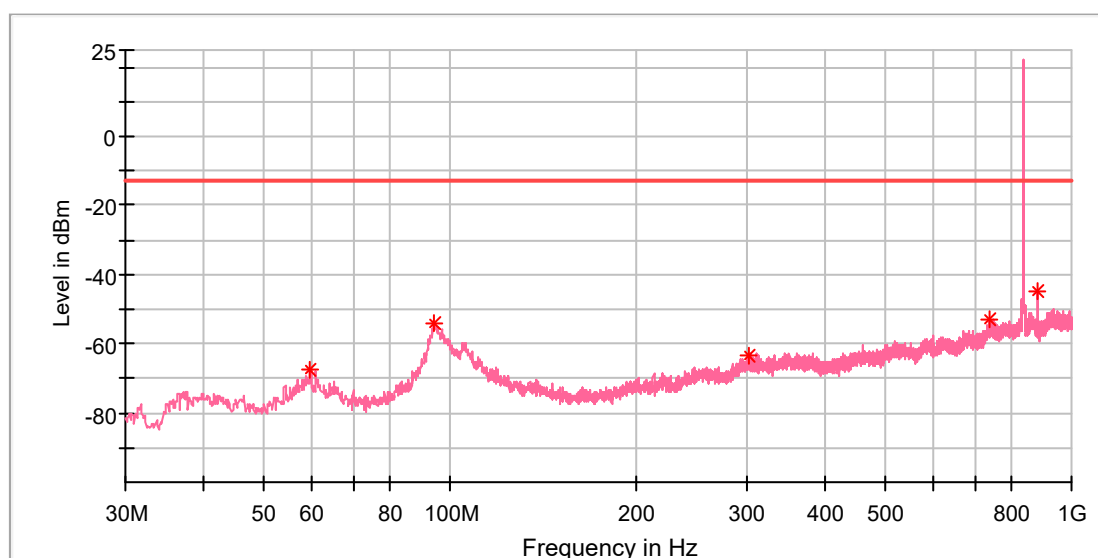


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.518750	-65.51	-13.00	52.51	100.0	H	228.0	-112.3
111.237500	-73.87	-13.00	60.87	100.0	H	325.0	-121.7
247.037500	-60.73	-13.00	47.73	100.0	H	325.0	-109.9
653.952500	-55.53	-13.00	42.53	100.0	H	142.0	-104.6
938.162500	-50.51	-13.00	37.51	100.0	H	233.0	-101.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

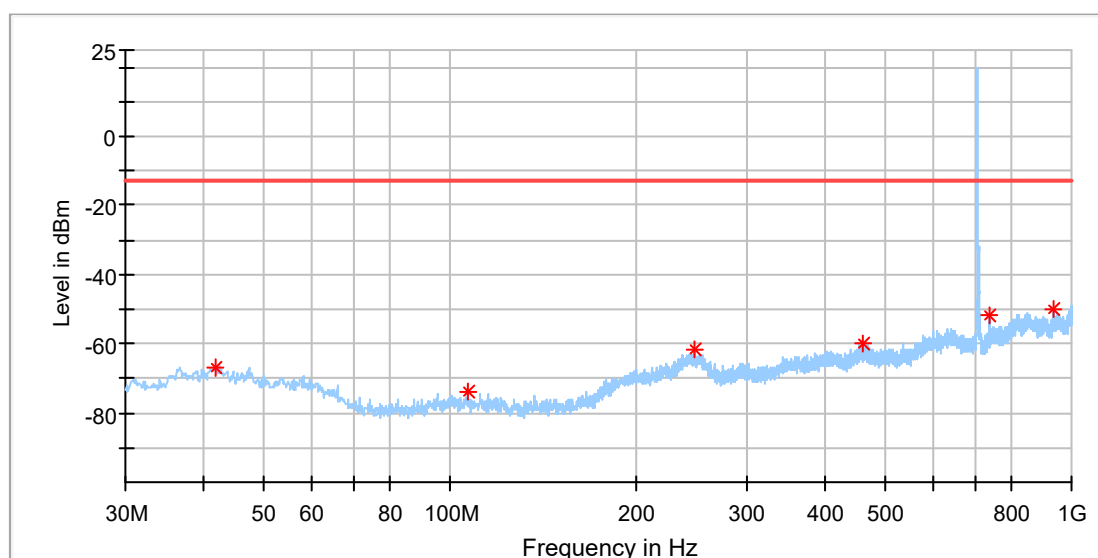


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.585000	-67.45	-13.00	54.45	100.0	V	316.0	-120.5
93.898750	-54.32	-13.00	41.32	100.0	V	214.0	-100.3
303.055000	-63.17	-13.00	50.17	100.0	V	182.0	-111.0
738.585000	-52.93	-13.00	39.93	100.0	V	51.0	-101.7
881.660000	-45.02	-13.00	32.02	100.0	V	19.0	-102.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

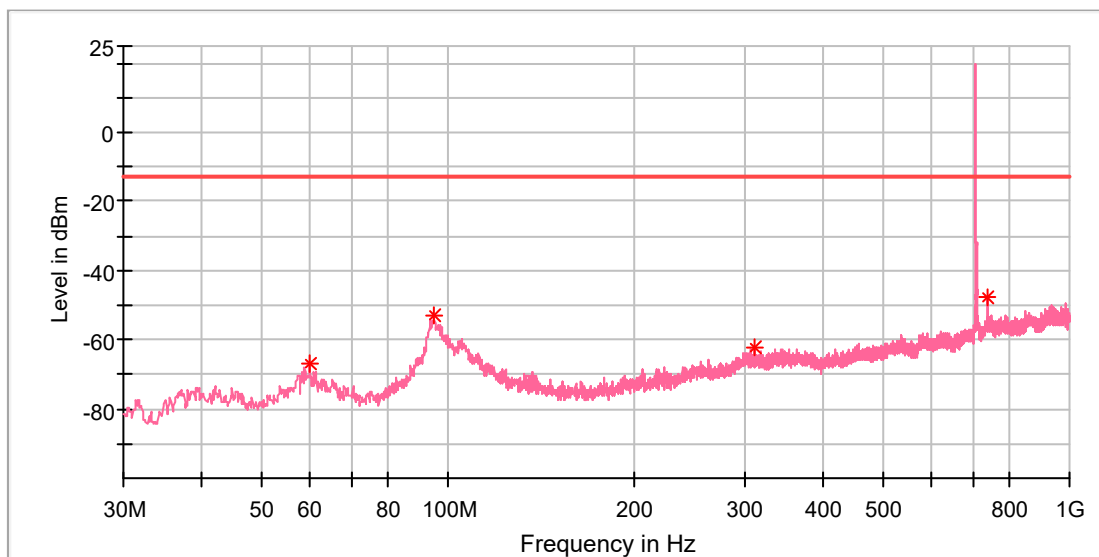


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.882500	-66.71	-13.00	53.71	100.0	H	250.0	-112.4
106.751250	-74.10	-13.00	61.10	100.0	H	180.0	-121.6
247.401250	-61.83	-13.00	48.83	100.0	H	121.0	-109.9
462.013750	-60.13	-13.00	47.13	100.0	H	136.0	-108.5
737.493750	-51.88	-13.00	38.88	100.0	H	163.0	-105.1
935.010000	-50.19	-13.00	37.19	100.0	H	13.0	-101.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

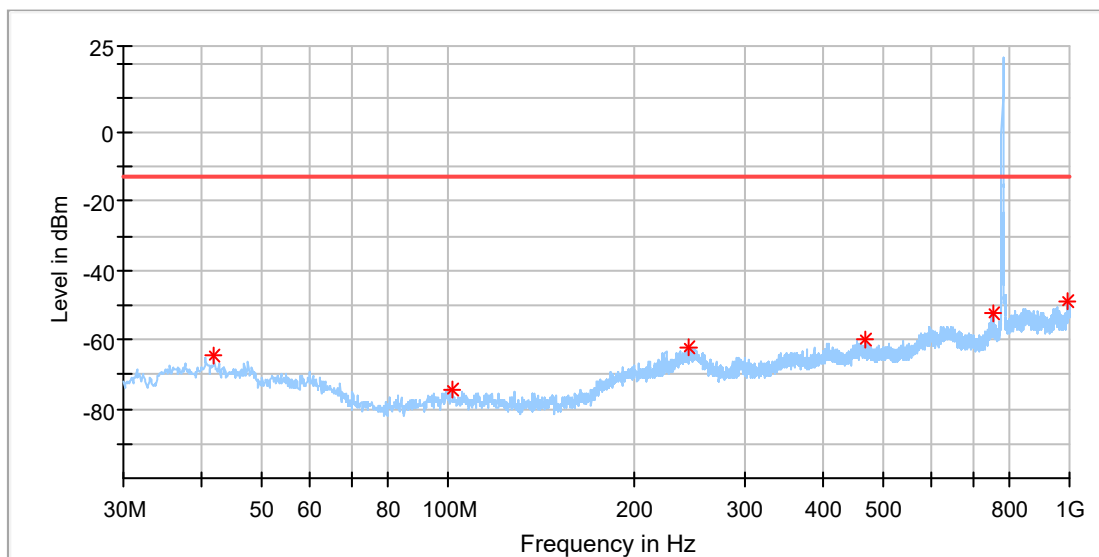


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.948750	-66.60	-13.00	53.60	100.0	V	247.0	-120.5
94.868750	-52.68	-13.00	39.68	100.0	V	140.0	-99.8
310.693750	-62.14	-13.00	49.14	100.0	V	168.0	-111.1
737.978750	-47.50	-13.00	34.50	100.0	V	21.0	-101.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

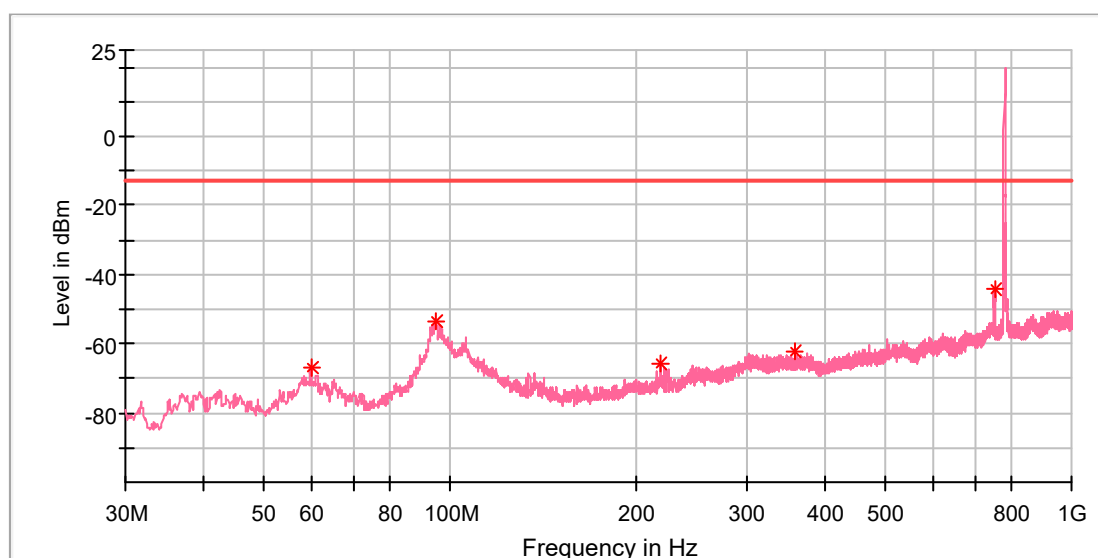


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.882500	-64.53	-13.00	51.53	100.0	H	331.0	-112.4
101.416250	-74.59	-13.00	61.59	100.0	H	155.0	-121.4
243.400000	-62.06	-13.00	49.06	100.0	H	345.0	-110.0
467.348750	-59.64	-13.00	46.64	100.0	H	78.0	-108.5
752.165000	-52.42	-13.00	39.42	100.0	H	205.0	-103.3
995.756250	-48.71	-13.00	35.71	100.0	H	115.0	-98.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

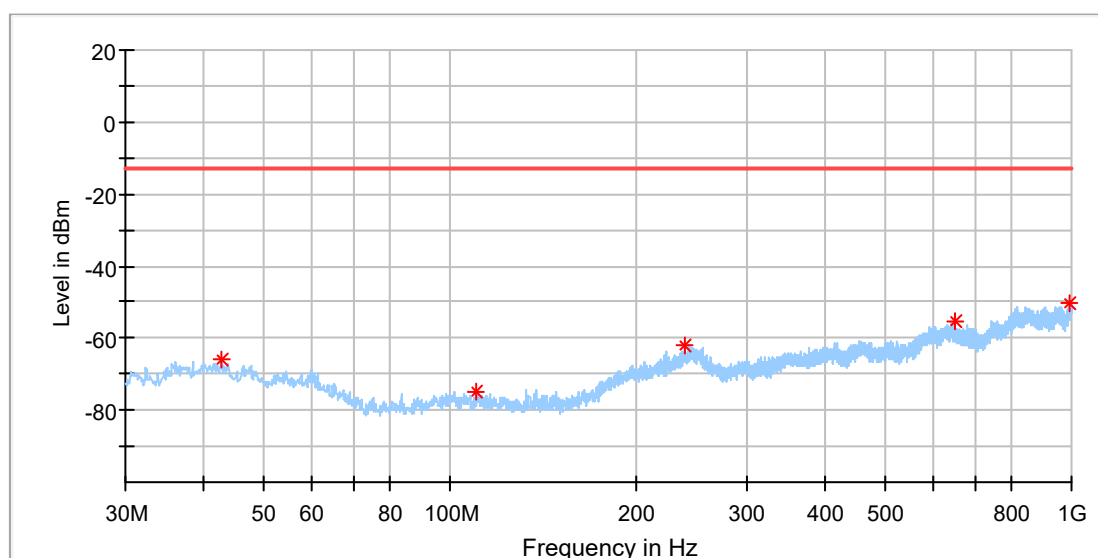


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.827500	-67.06	-13.00	54.06	100.0	V	89.0	-120.5
94.626250	-53.37	-13.00	40.37	100.0	V	151.0	-99.8
218.665000	-65.84	-13.00	52.84	100.0	V	280.0	-118.2
358.587500	-62.17	-13.00	49.17	100.0	V	201.0	-111.3
752.407500	-44.42	-13.00	31.42	100.0	V	329.0	-102.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

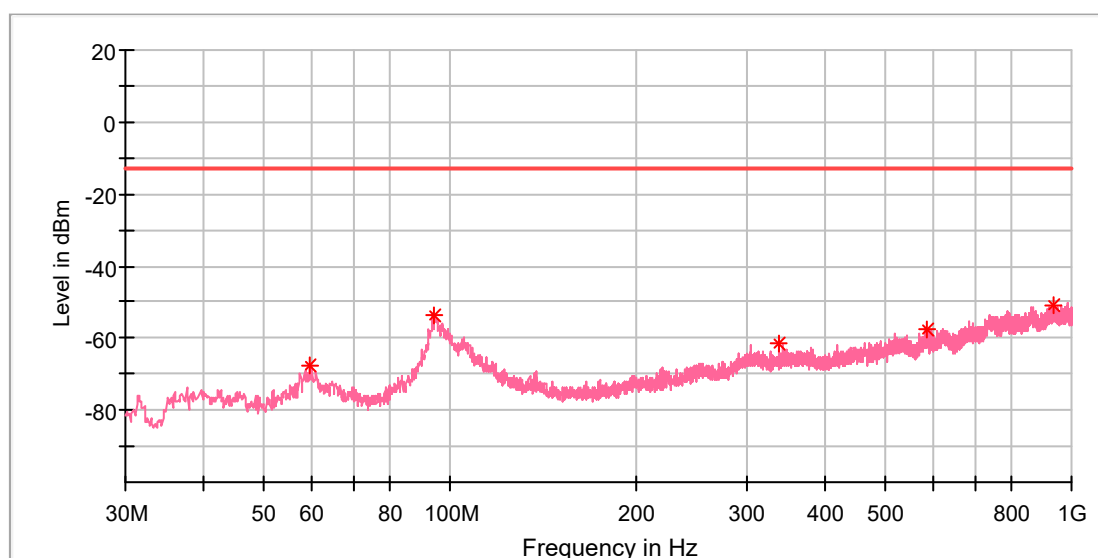


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.852500	-66.01	-13.00	53.01	100.0	H	7.0	-113.1
110.267500	-74.76	-13.00	61.76	100.0	H	252.0	-122.2
238.792500	-62.04	-13.00	49.04	100.0	H	47.0	-110.7
652.012500	-55.38	-13.00	42.38	100.0	H	57.0	-104.5
995.998750	-50.23	-13.00	37.23	100.0	H	161.0	-98.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



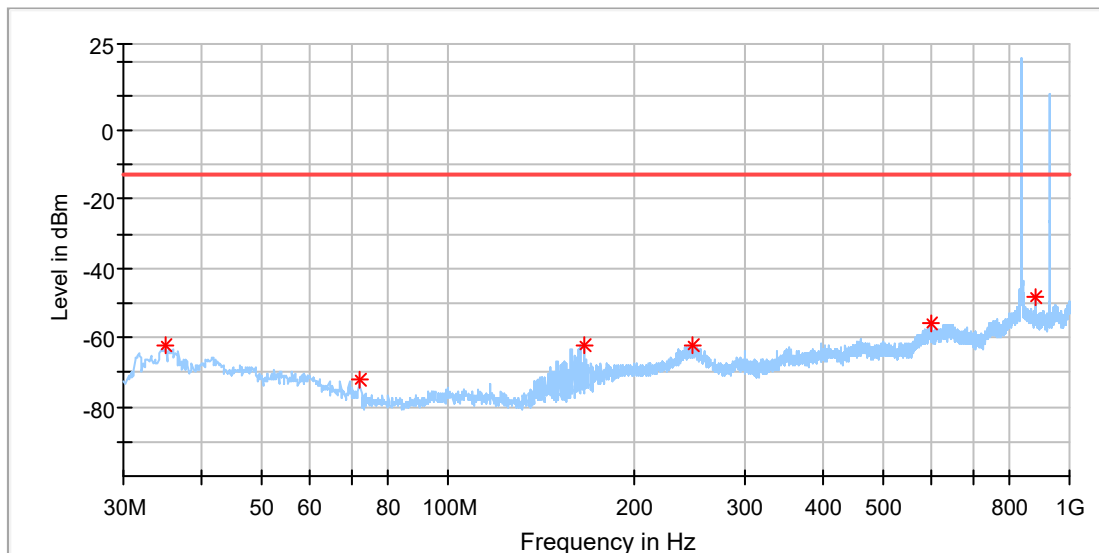
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.585000	-67.87	-13.00	54.87	100.0	V	332.0	-120.5
94.505000	-53.74	-13.00	40.74	100.0	V	0.0	-99.7
337.005000	-61.39	-13.00	48.39	100.0	V	234.0	-111.5
584.355000	-57.54	-13.00	44.54	100.0	V	213.0	-106.4
937.071250	-50.66	-13.00	37.66	100.0	V	4.0	-100.1

Radiated Transmitter Unwanted Emissions for Co-Tx, Below 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

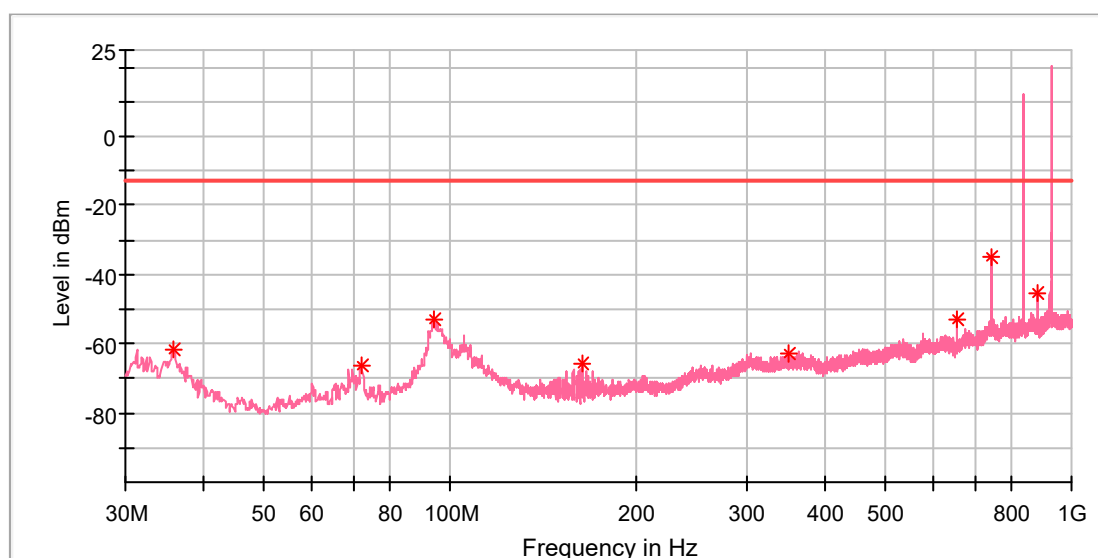


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.092500	-62.16	-13.00	49.16	100.0	H	230.0	-114.7
71.952500	-72.24	-13.00	59.24	100.0	H	0.0	-123.3
165.800000	-62.03	-13.00	49.03	100.0	H	253.0	-121.9
246.916250	-62.41	-13.00	49.41	100.0	H	333.0	-109.9
599.511250	-55.89	-13.00	42.89	100.0	H	146.0	-105.2
881.538750	-48.24	-13.00	35.24	100.0	H	230.0	-102.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



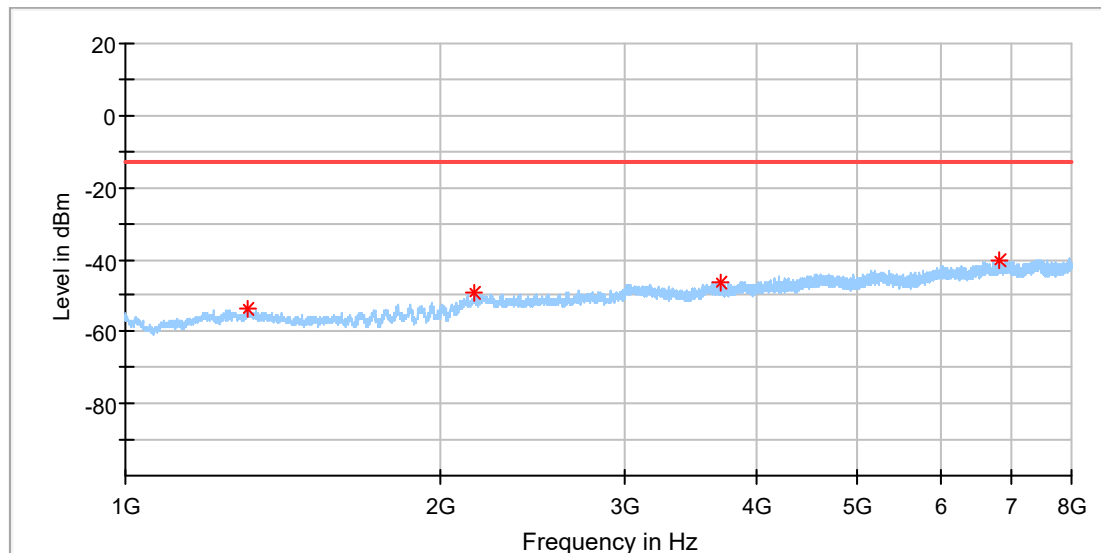
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.820000	-61.75	-13.00	48.75	100.0	V	322.0	-126.0
72.073750	-66.09	-13.00	53.09	100.0	V	46.0	-123.3
94.141250	-53.09	-13.00	40.09	100.0	V	303.0	-99.8
163.132500	-65.78	-13.00	52.78	100.0	V	244.0	-120.3
351.312500	-62.56	-13.00	49.56	100.0	V	13.0	-110.9
653.467500	-52.95	-13.00	39.95	100.0	V	53.0	-106.9
744.647500	-34.62	-13.00	21.62	100.0	V	53.0	-101.8
881.053750	-45.47	-13.00	32.47	100.0	V	64.0	-102.3

Radiated Transmitter Unwanted Emissions for LTE (Internal ANT), Above 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

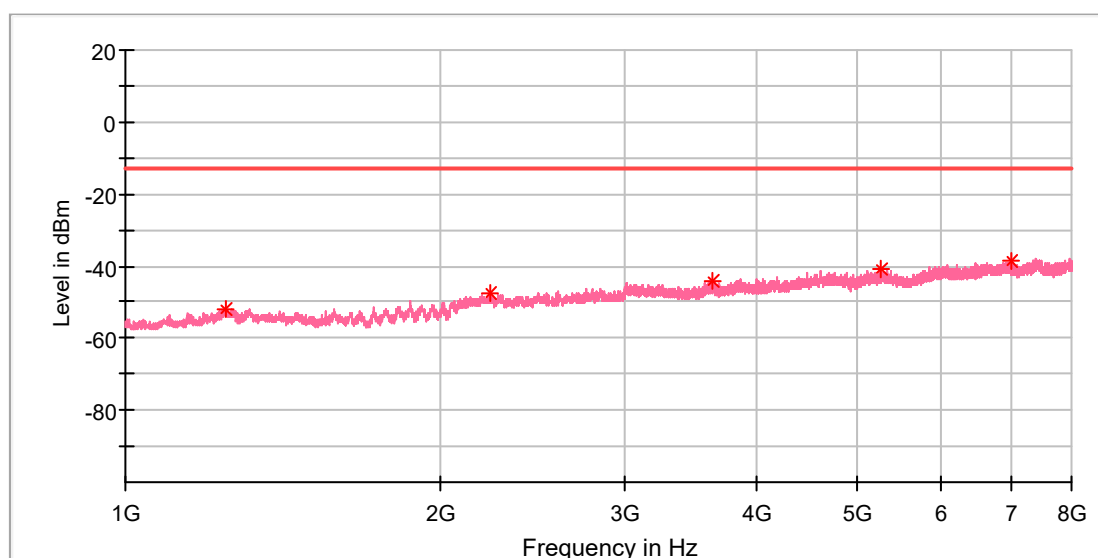


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1308.500000	-53.84	-13.00	40.84	150.0	H	0.0	-92.2
2151.500000	-49.42	-13.00	36.42	150.0	H	350.0	-87.9
3692.500000	-46.36	-13.00	33.36	150.0	H	134.0	-85.5
6818.000000	-40.23	-13.00	27.23	150.0	H	203.0	-79.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

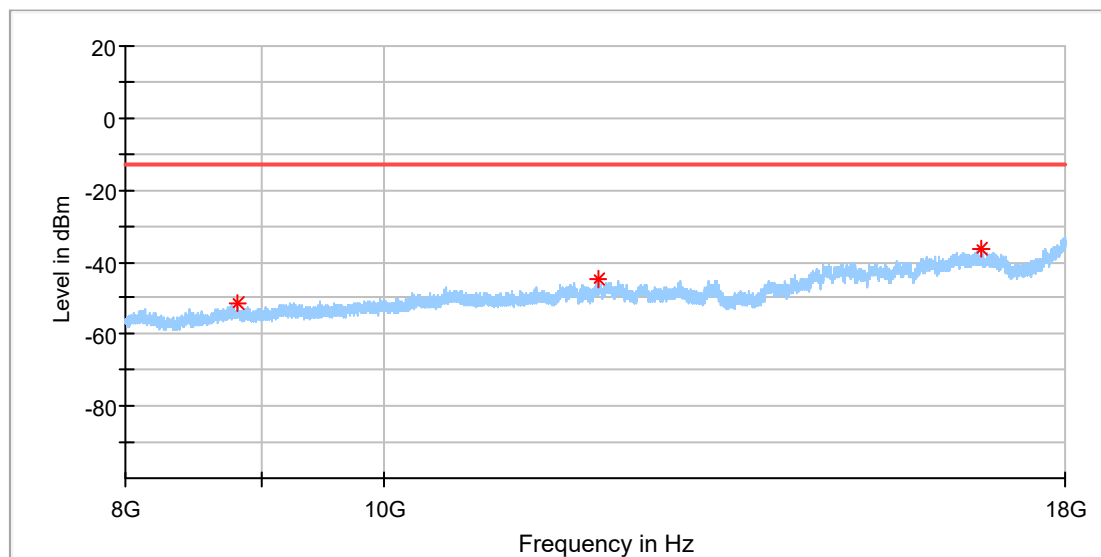


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1247.000000	-51.74	-13.00	38.74	150.0	V	106.0	-89.9
2230.500000	-47.75	-13.00	34.75	150.0	V	178.0	-86.0
3630.500000	-43.99	-13.00	30.99	150.0	V	282.0	-83.5
5261.500000	-40.56	-13.00	27.56	150.0	V	222.0	-79.9
6997.500000	-38.67	-13.00	25.67	150.0	V	57.0	-77.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

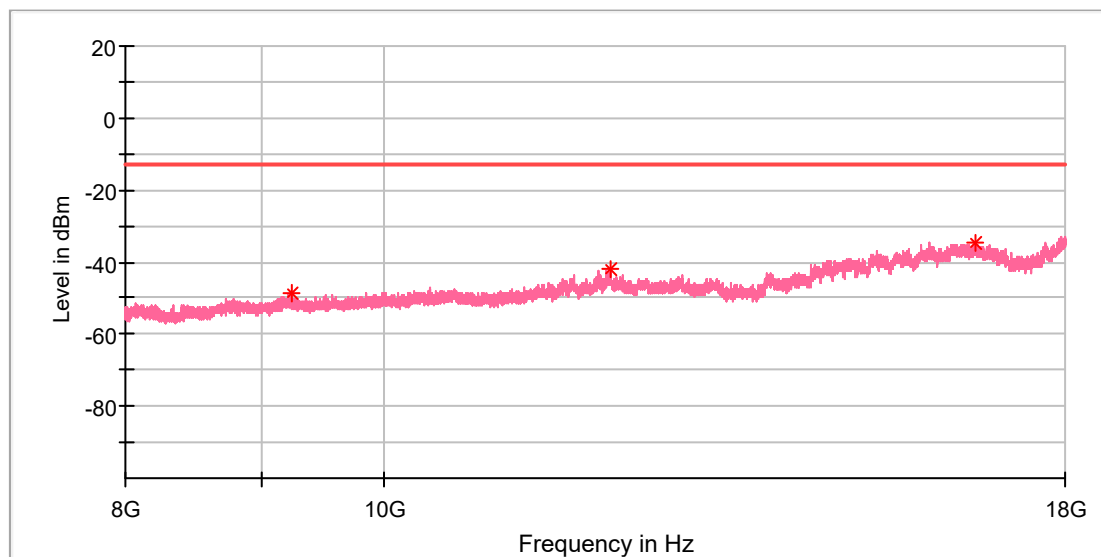


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8812.500000	-51.69	-13.00	38.69	150.0	H	254.0	-86.5
12033.500000	-45.00	-13.00	32.00	150.0	H	143.0	-79.7
16727.000000	-36.55	-13.00	23.55	150.0	H	135.0	-73.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

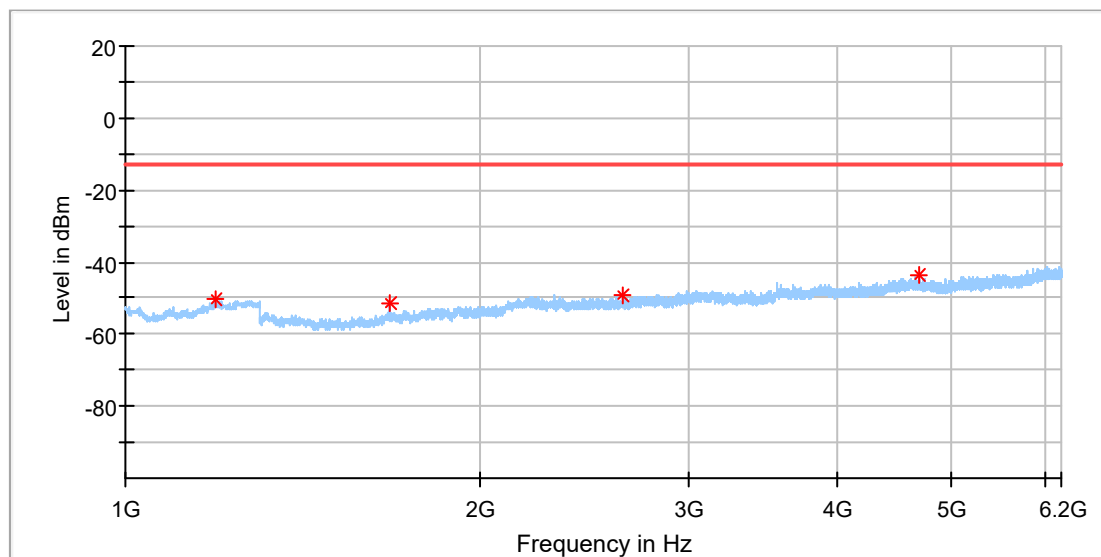


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9238.500000	-48.90	-13.00	35.90	150.0	V	92.0	-83.8
12158.500000	-41.74	-13.00	28.74	150.0	V	193.0	-78.1
16655.500000	-34.52	-13.00	21.52	150.0	V	72.0	-70.9

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

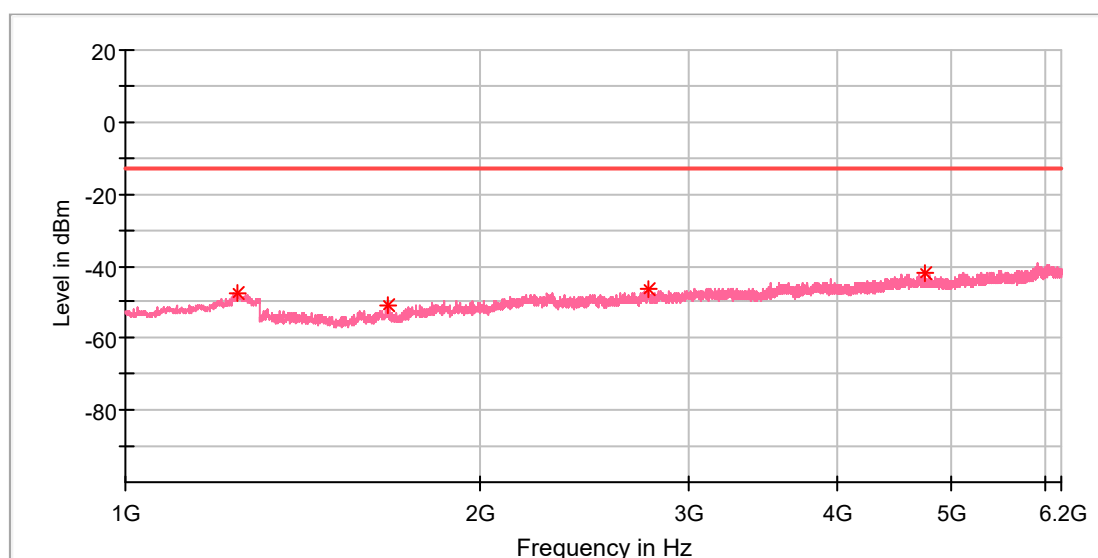


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1190.000000	-50.37	-13.00	37.37	150.0	H	16.0	-94.1
1672.500000	-51.28	-13.00	38.28	150.0	H	129.0	-92.5
2631.000000	-49.09	-13.00	36.09	150.0	H	291.0	-88.7
4696.500000	-43.82	-13.00	30.82	150.0	H	76.0	-83.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

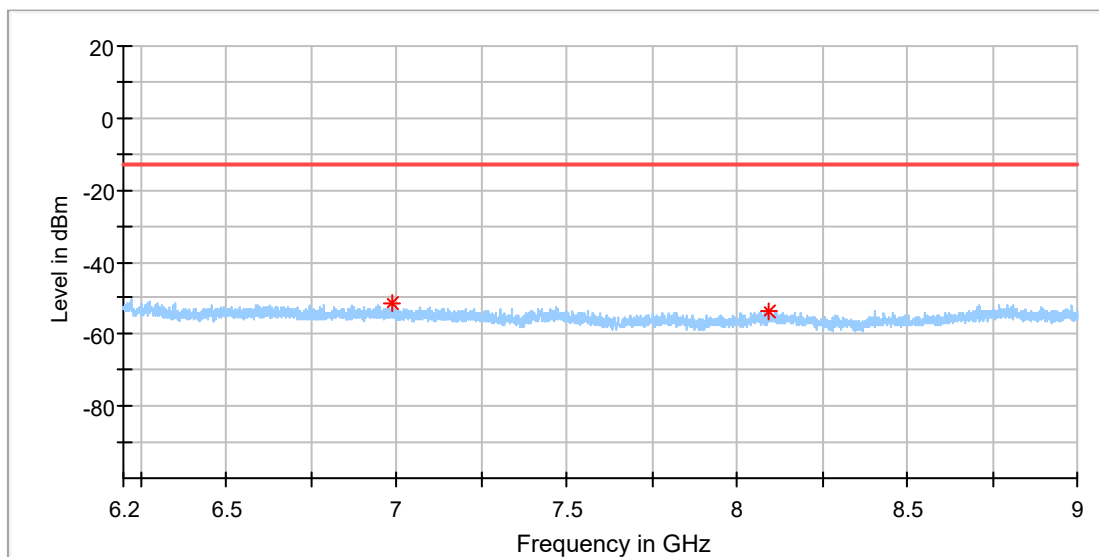


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1247.000000	-47.44	-13.00	34.44	150.0	V	28.0	-90.7
1671.500000	-50.66	-13.00	37.66	150.0	V	44.0	-90.5
2771.000000	-46.33	-13.00	33.33	150.0	V	30.0	-85.7
4748.000000	-41.80	-13.00	28.80	150.0	V	228.0	-81.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

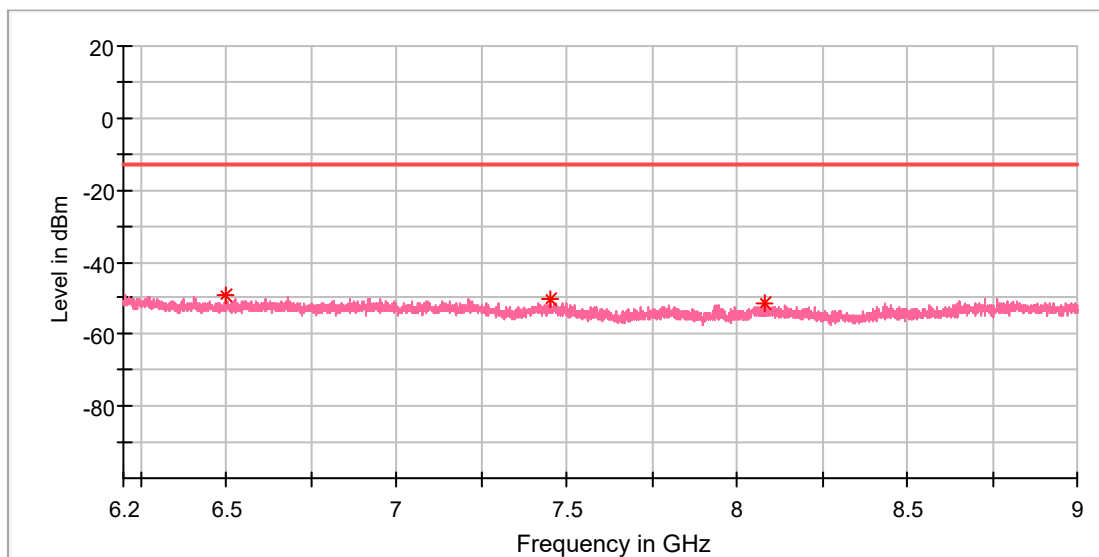


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6987.650000	-51.30	-13.00	38.30	150.0	H	313.0	-88.8
8092.916667	-53.67	-13.00	40.67	150.0	H	144.0	-88.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

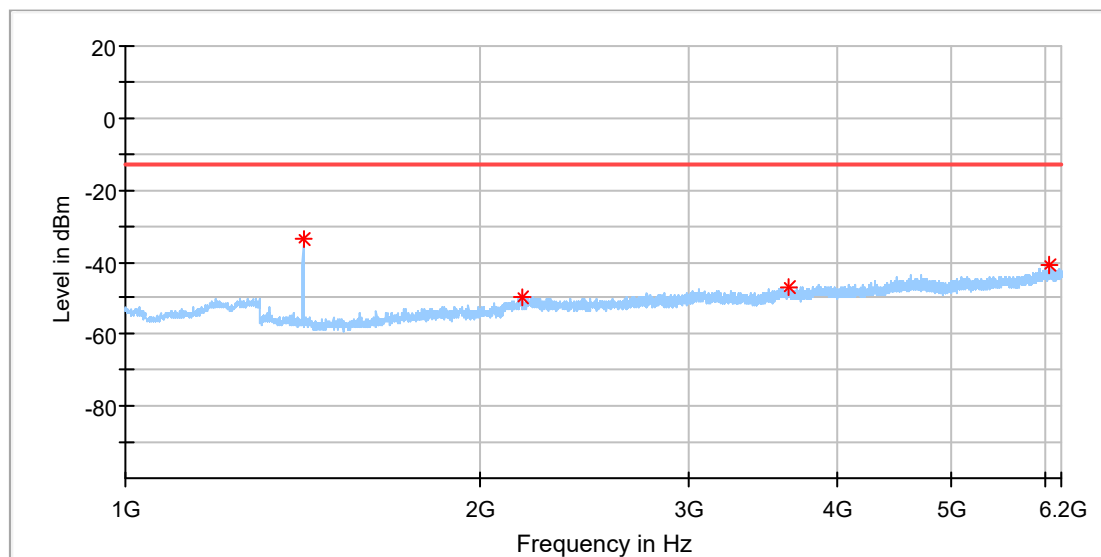


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6501.883333	-49.45	-13.00	36.45	150.0	V	63.0	-86.9
7454.241667	-50.53	-13.00	37.53	150.0	V	13.0	-86.4
8079.641667	-51.56	-13.00	38.56	150.0	V	350.0	-86.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

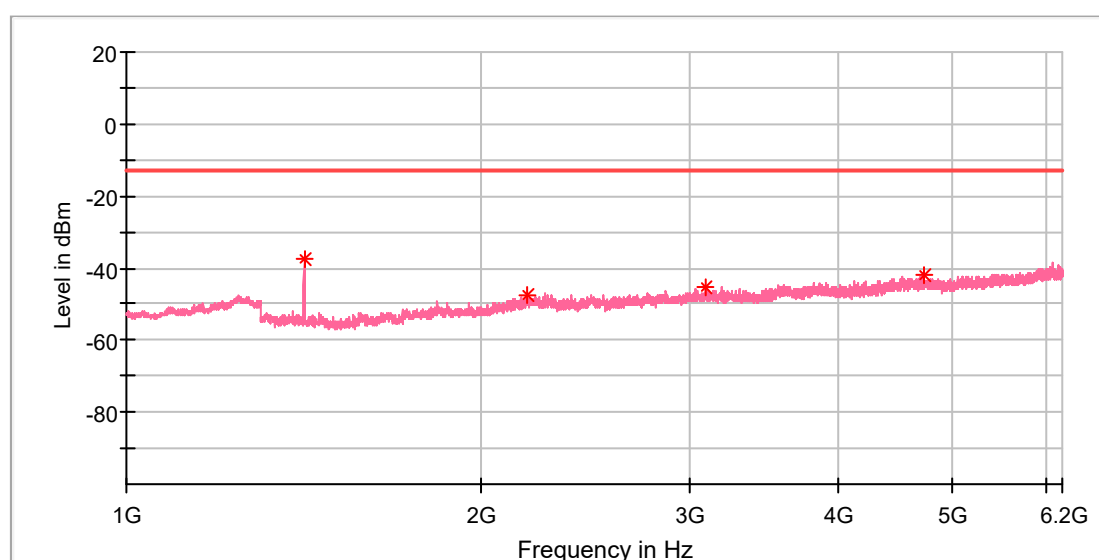


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1414.000000	-33.50	-13.00	20.50	150.0	H	40.0	-93.8
2170.000000	-49.71	-13.00	36.71	150.0	H	207.0	-88.2
3649.500000	-47.04	-13.00	34.04	150.0	H	277.0	-86.1
6050.000000	-41.05	-13.00	28.05	150.0	H	277.0	-80.9

EUT Information

EUT Name: WisGate Soho Lite
 Model: RAK7266
 Test Mode: LTE Band 12_1.4M_QPSK_Mid channel
 Order No/Sample No: 168567670/A004050424-007
 Test Voltage:: Adaptor
 Remark: Temp 22 Humi:55%
 Test Standard: FCC Part 27
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

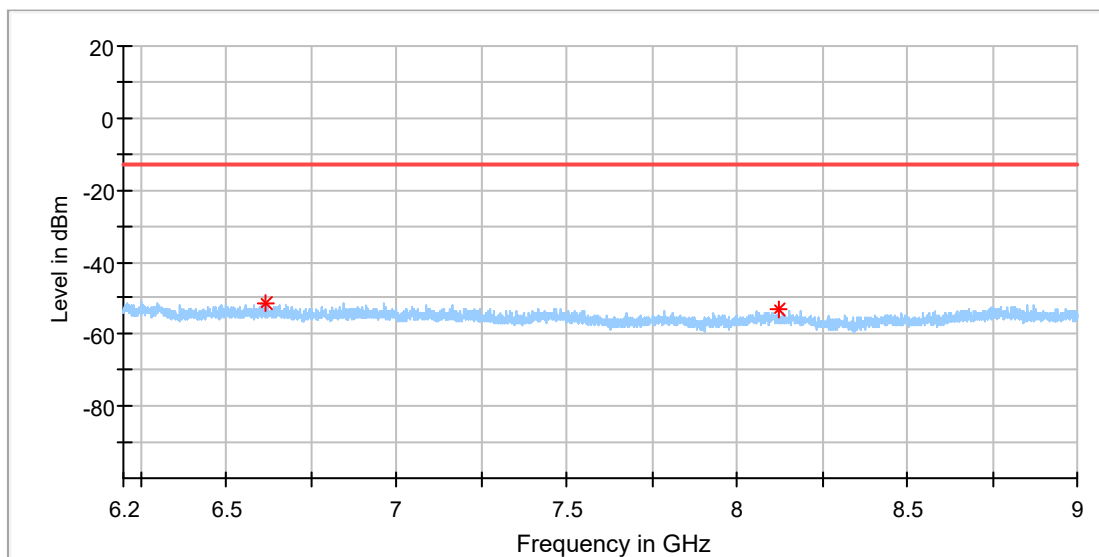


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1413.500000	-37.63	-13.00	24.63	150.0	V	328.0	-91.5
2183.500000	-47.59	-13.00	34.59	150.0	V	198.0	-86.0
3094.500000	-45.36	-13.00	32.36	150.0	V	0.0	-84.8
4733.500000	-42.19	-13.00	29.19	150.0	V	255.0	-81.7

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

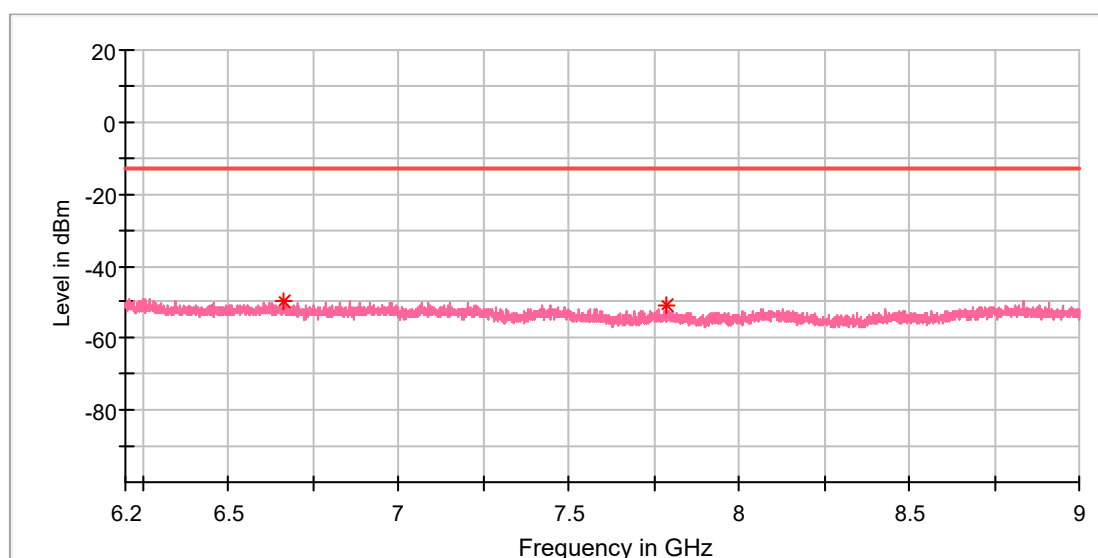


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6620.375000	-51.44	-13.00	38.44	150.0	H	281.0	-88.7
8123.891667	-53.32	-13.00	40.32	150.0	H	34.0	-88.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

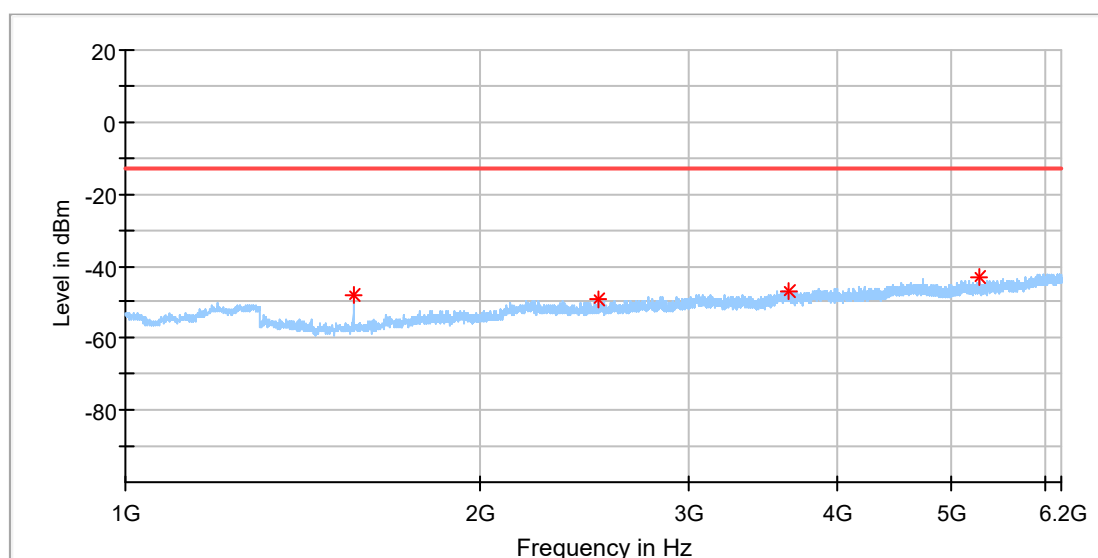


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6667.083333	-49.81	-13.00	36.81	150.0	V	49.0	-87.0
7786.116667	-50.95	-13.00	37.95	150.0	V	239.0	-86.7

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

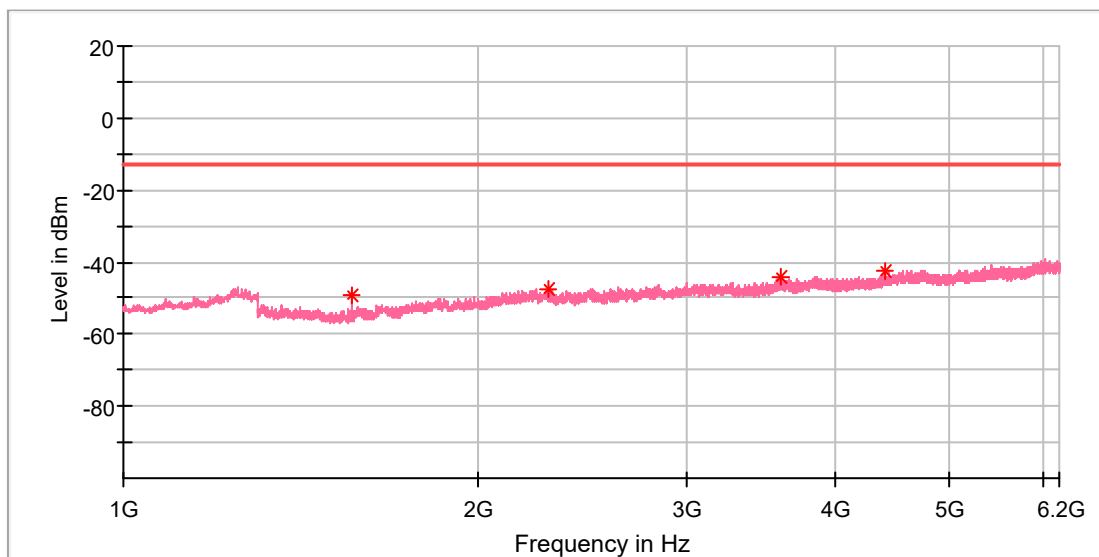


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1559.500000	-48.04	-13.00	35.04	150.0	H	339.0	-93.5
2515.000000	-49.40	-13.00	36.40	150.0	H	359.0	-88.5
3650.000000	-46.83	-13.00	33.83	150.0	H	292.0	-86.1
5287.500000	-43.07	-13.00	30.07	150.0	H	5.0	-83.3

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

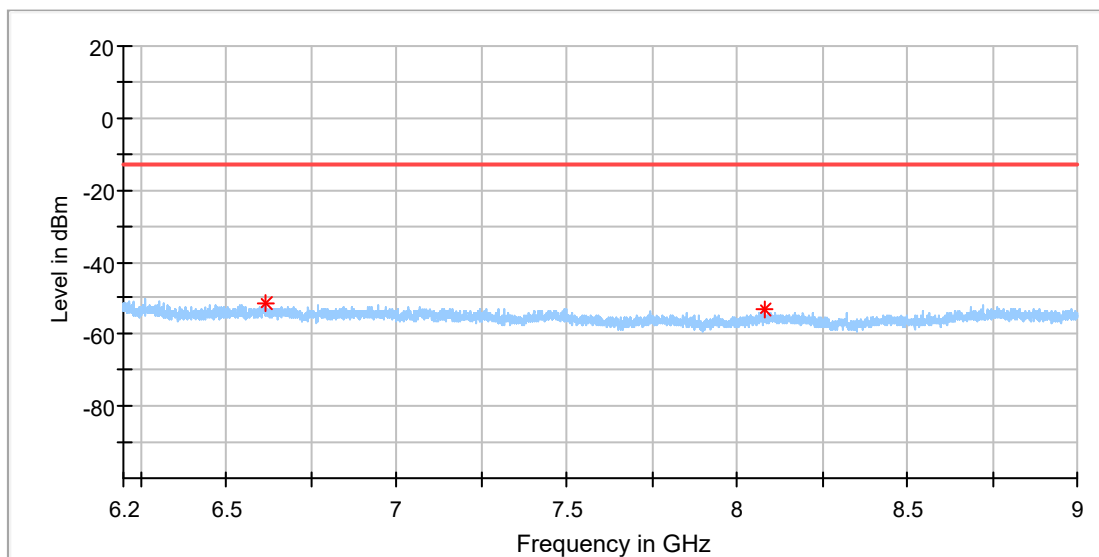


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1559.500000	-49.38	-13.00	36.38	150.0	V	153.0	-91.7
2287.500000	-47.47	-13.00	34.47	150.0	V	73.0	-85.9
3597.500000	-44.22	-13.00	31.23	150.0	V	245.0	-84.1
4410.000000	-42.28	-13.00	29.28	150.0	V	330.0	-82.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

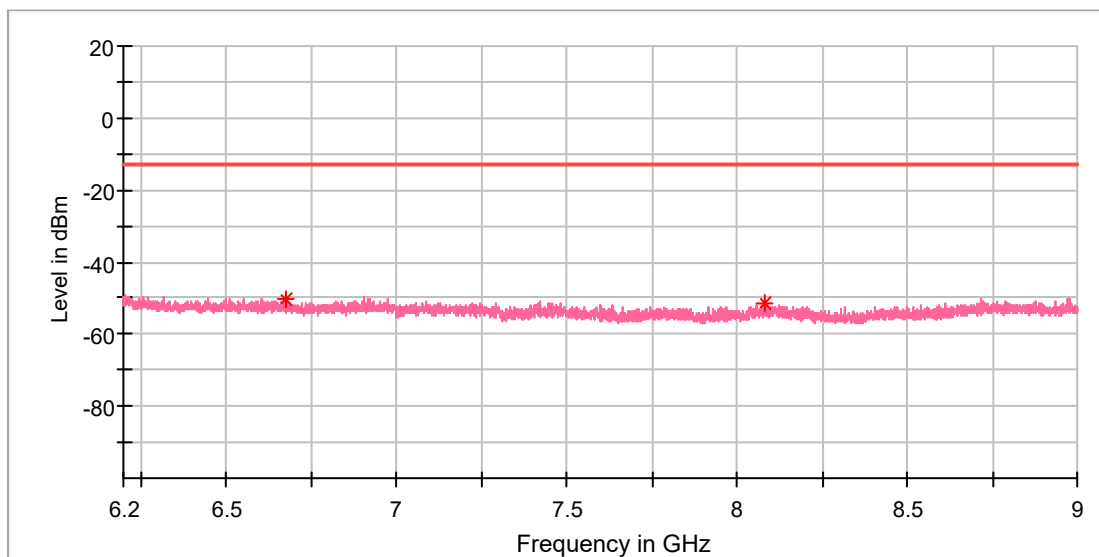


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6618.900000	-51.28	-13.00	38.28	150.0	H	233.0	-88.7
8083.575000	-53.25	-13.00	40.25	150.0	H	125.0	-88.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

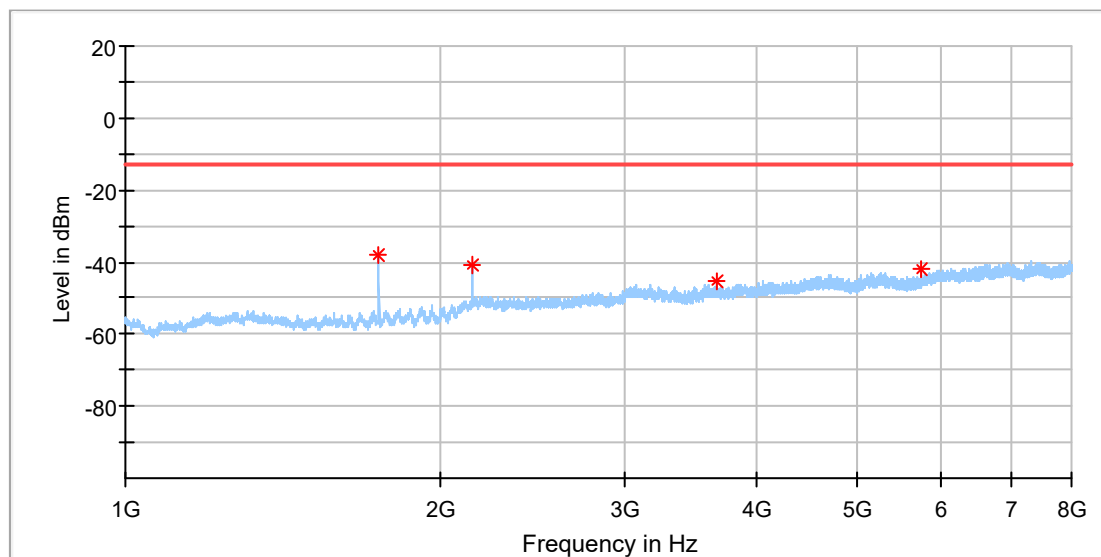


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6675.933333	-50.52	-13.00	37.52	150.0	V	26.0	-87.0
8083.083333	-51.39	-13.00	38.39	150.0	V	0.0	-86.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

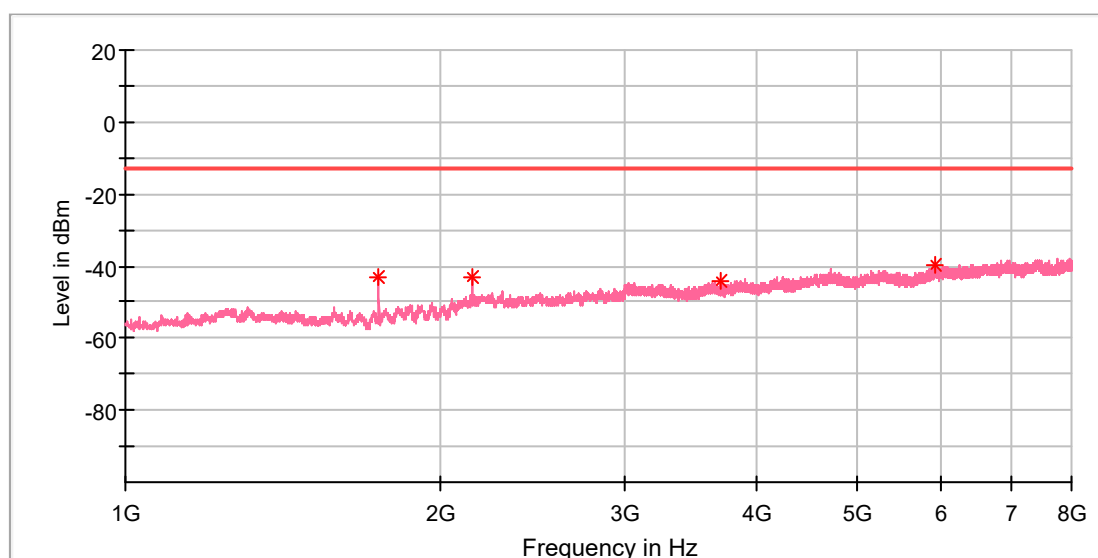


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1744.500000	-38.31	-13.00	25.31	150.0	H	77.0	-91.9
2145.000000	-41.00	-13.00	28.00	150.0	H	226.0	-88.2
3667.500000	-45.26	-13.00	32.26	150.0	H	252.0	-85.6
5739.500000	-42.07	-13.00	29.07	150.0	H	245.0	-82.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

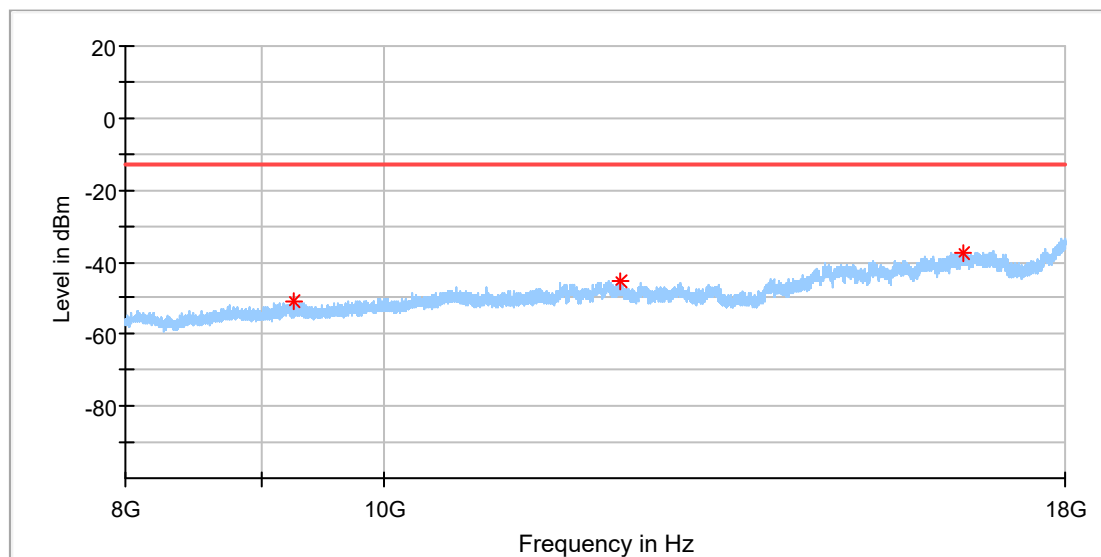


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1744.500000	-42.82	-13.00	29.82	150.0	V	333.0	-89.5
2145.000000	-43.06	-13.00	30.06	150.0	V	62.0	-86.6
3701.000000	-44.39	-13.00	31.39	150.0	V	2.0	-83.8
5939.500000	-39.82	-13.00	26.82	150.0	V	71.0	-79.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

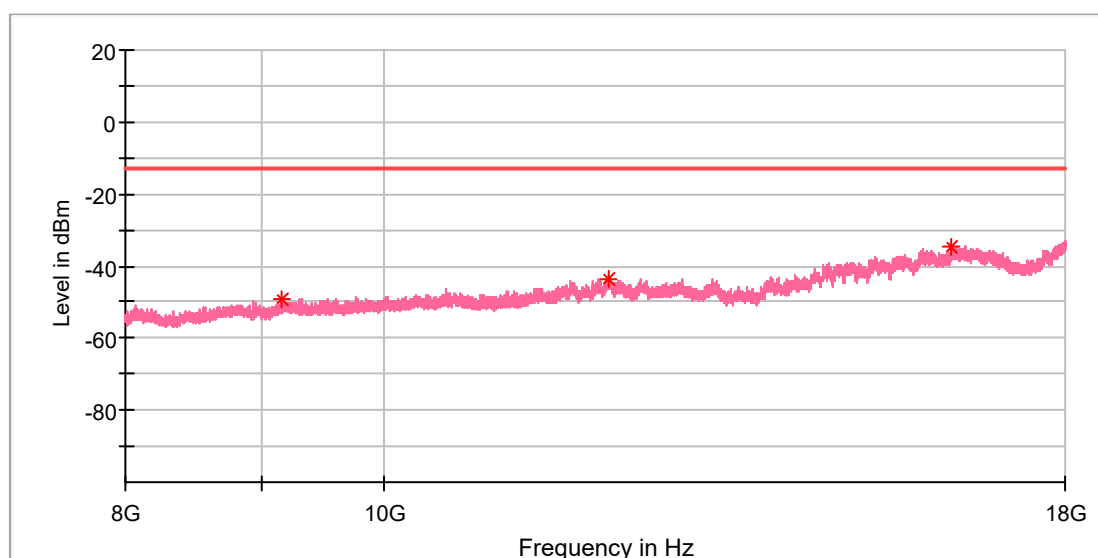


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9255.500000	-50.82	-13.00	37.82	150.0	H	158.0	-85.9
12269.500000	-45.04	-13.00	32.04	150.0	H	35.0	-80.1
16493.000000	-37.22	-13.00	24.22	150.0	H	265.0	-73.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



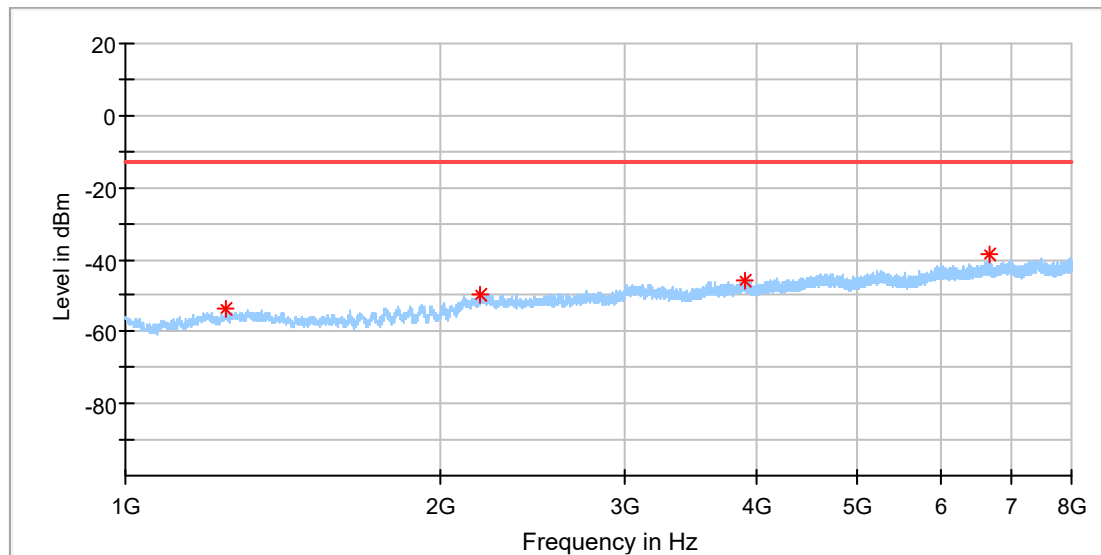
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9148.000000	-49.15	-13.00	36.15	150.0	V	255.0	-84.6
12134.000000	-43.36	-13.00	30.36	150.0	V	166.0	-78.0
16307.000000	-34.47	-13.00	21.47	150.0	V	263.0	-70.7

Radiated Transmitter Unwanted Emissions for LTE (External ANT), Above 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

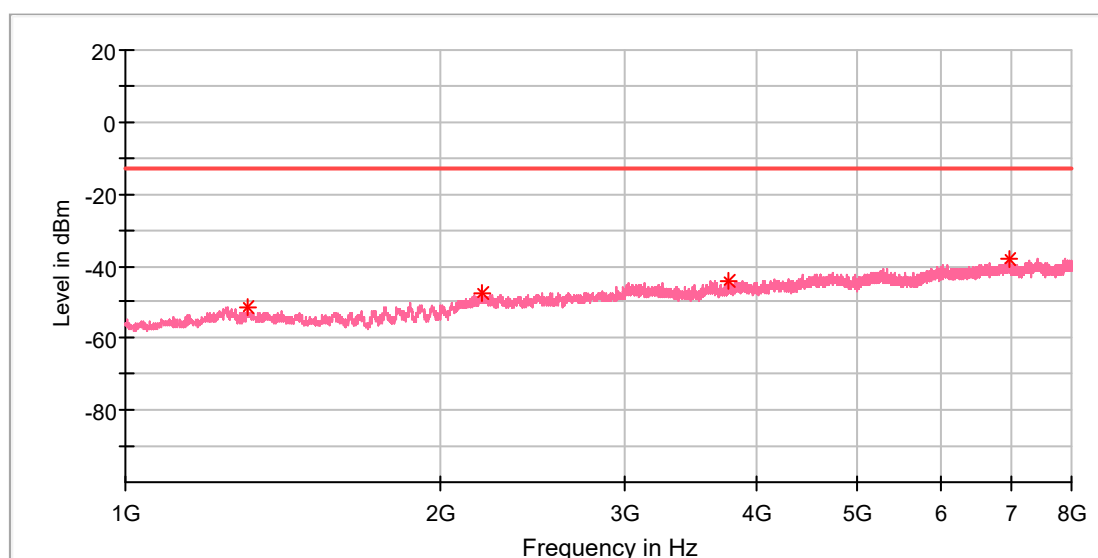


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.000000	-53.62	-13.00	40.62	150.0	H	345.0	-92.9
2176.500000	-49.95	-13.00	36.95	150.0	H	121.0	-88.1
3897.000000	-45.61	-13.00	32.61	150.0	H	246.0	-85.0
6665.500000	-38.76	-13.00	25.76	150.0	H	113.0	-79.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

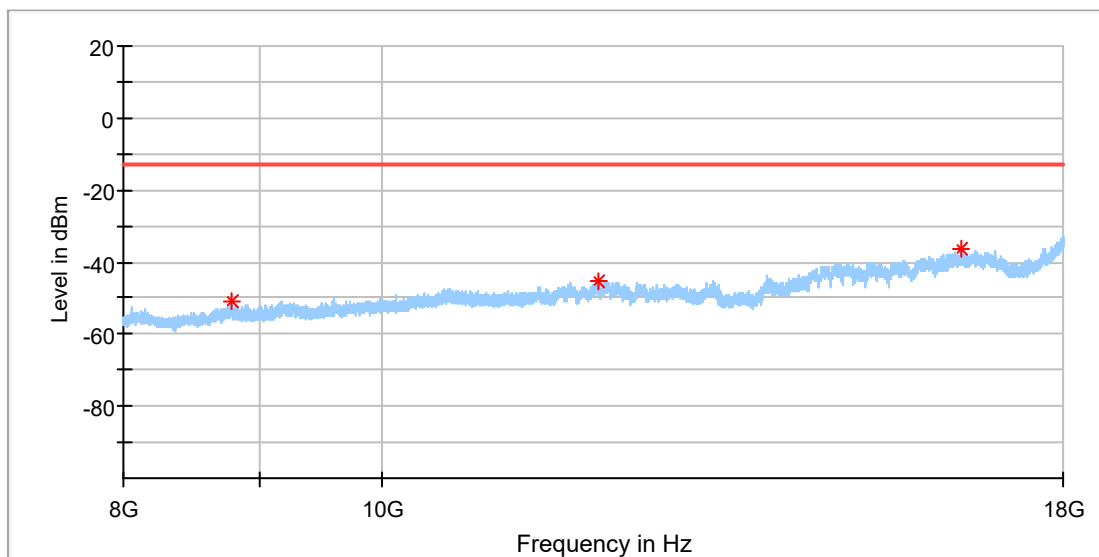


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1310.000000	-51.19	-13.00	38.19	150.0	V	87.0	-90.2
2186.000000	-47.71	-13.00	34.71	150.0	V	222.0	-86.0
3758.500000	-43.95	-13.00	30.95	150.0	V	202.0	-83.1
6989.500000	-38.21	-13.00	25.21	150.0	V	25.0	-77.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

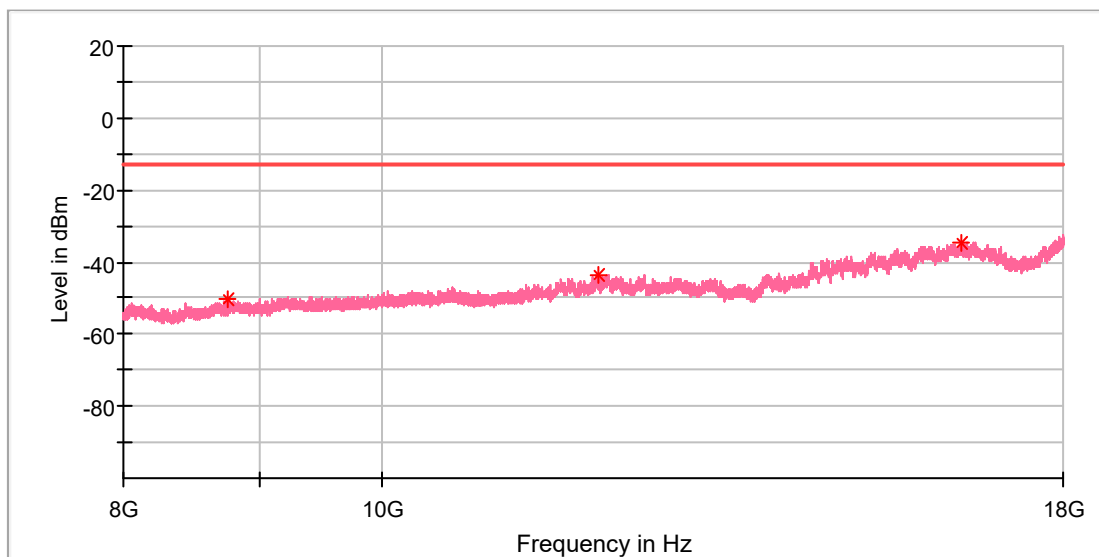


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8780.500000	-50.94	-13.00	37.94	150.0	H	157.0	-86.3
12054.500000	-45.43	-13.00	32.43	150.0	H	13.0	-80.0
16468.000000	-36.58	-13.00	23.58	150.0	H	299.0	-73.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 2_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 24
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

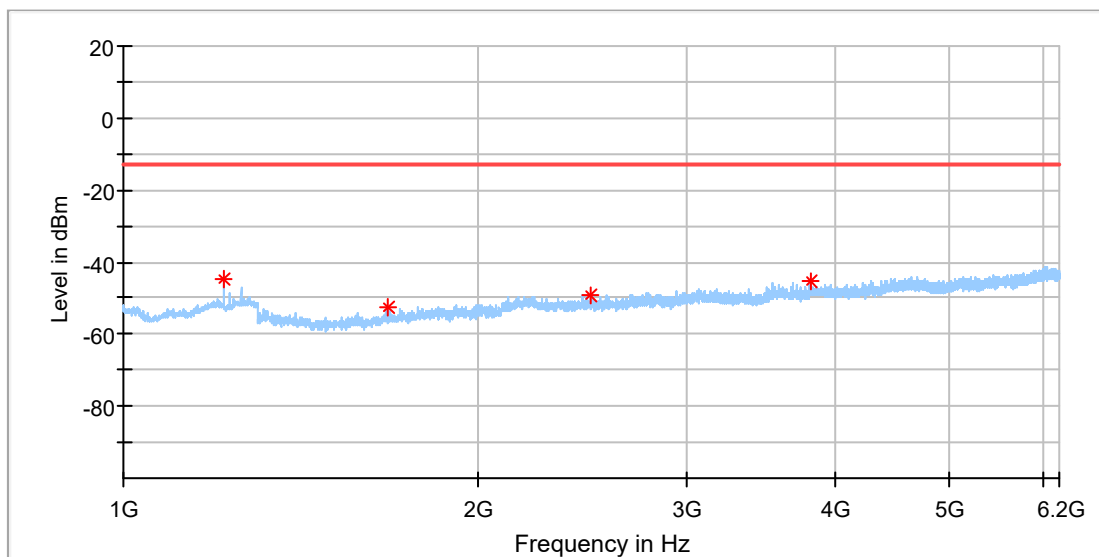


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8755.000000	-50.32	-13.00	37.32	150.0	V	312.0	-84.8
12050.500000	-43.38	-13.00	30.38	150.0	V	254.0	-77.7
16491.000000	-34.68	-13.00	21.68	150.0	V	220.0	-70.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

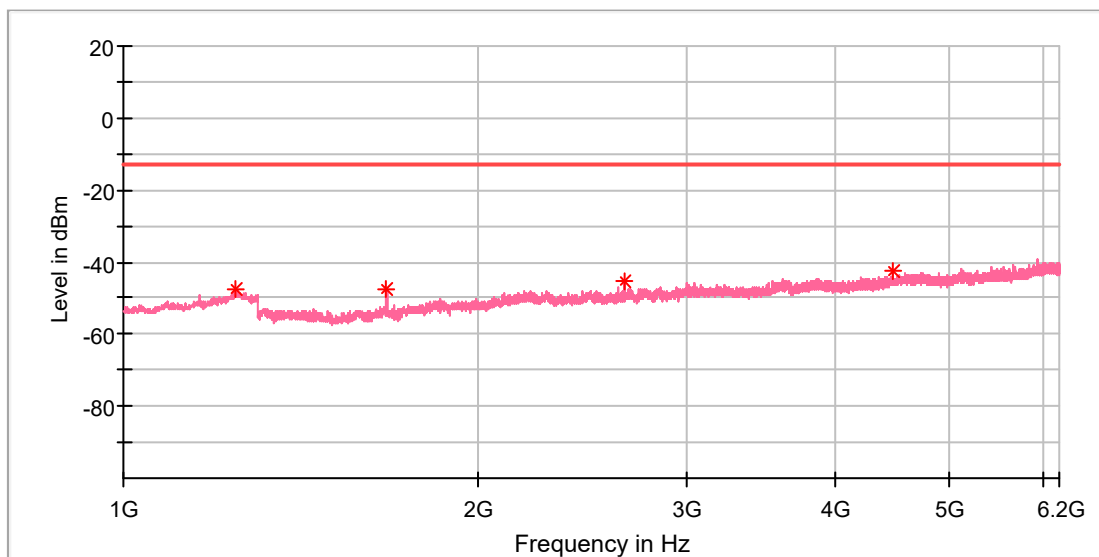


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1216.500000	-44.61	-13.00	31.61	150.0	H	210.0	-94.5
1672.000000	-52.30	-13.00	39.30	150.0	H	0.0	-92.5
2488.500000	-49.07	-13.00	36.07	150.0	H	61.0	-88.7
3817.500000	-45.04	-13.00	32.04	150.0	H	219.0	-85.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

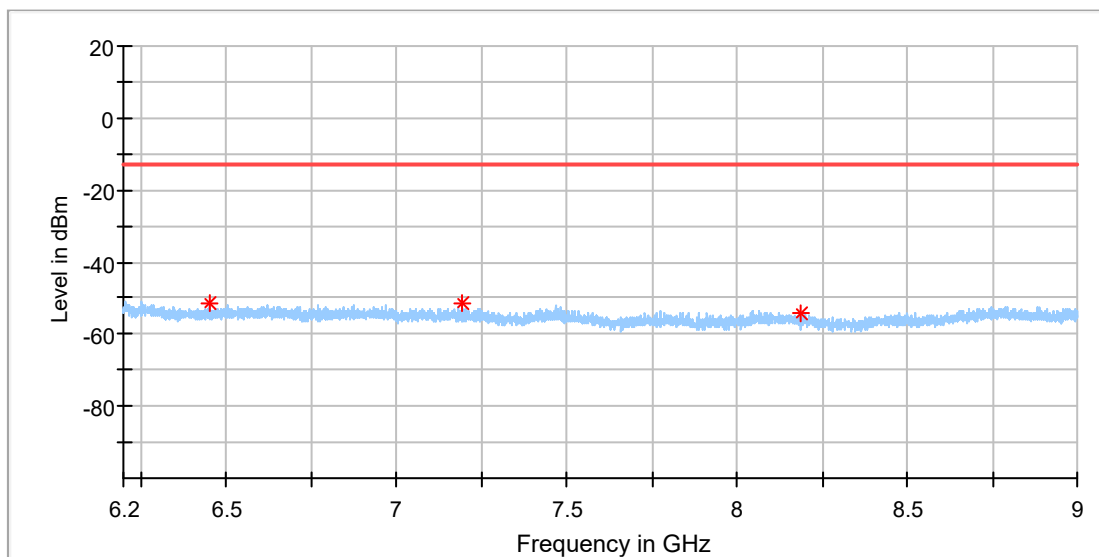


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1243.000000	-47.26	-13.00	34.26	150.0	V	318.0	-90.7
1671.500000	-47.68	-13.00	34.68	150.0	V	75.0	-90.5
2659.000000	-45.47	-13.00	32.47	150.0	V	259.0	-86.0
4482.000000	-42.76	-13.00	29.76	150.0	V	0.0	-82.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

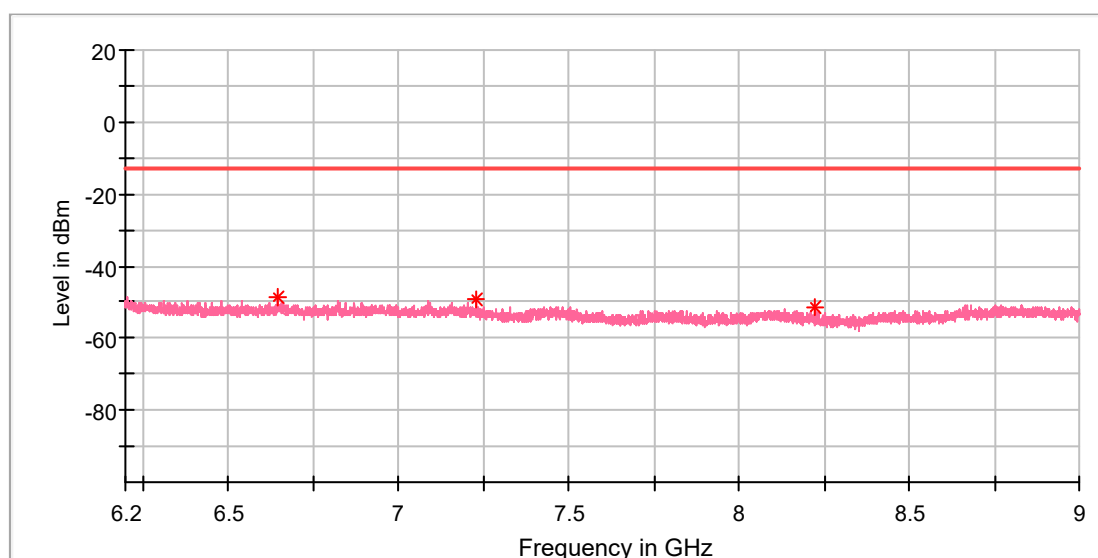


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6453.208333	-51.21	-13.00	38.21	150.0	H	38.0	-88.8
7195.133333	-51.69	-13.00	38.69	150.0	H	0.0	-88.3
8185.350000	-53.98	-13.00	40.98	150.0	H	226.0	-88.3

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 5_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

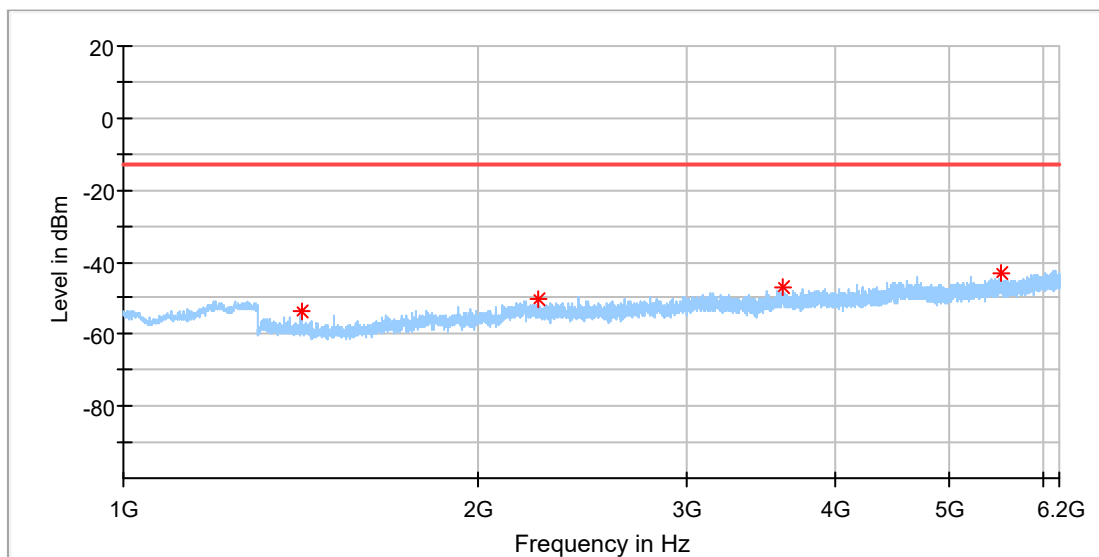


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6647.908333	-48.60	-13.00	35.60	150.0	V	265.0	-86.9
7231.025000	-49.38	-13.00	36.38	150.0	V	236.0	-86.4
8226.158333	-51.46	-13.00	38.46	150.0	V	134.0	-86.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

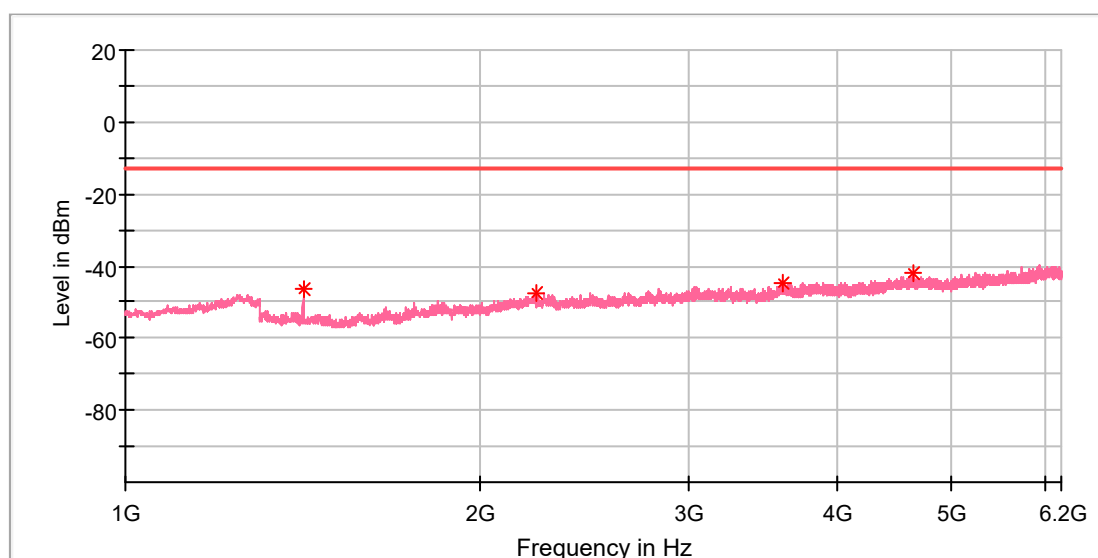


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1414.000000	-53.40	-13.00	40.40	150.0	H	1.0	-93.8
2245.500000	-50.47	-13.00	37.47	150.0	H	1.0	-88.0
3611.500000	-47.08	-13.00	34.08	150.0	H	0.0	-86.1
5528.000000	-43.11	-13.00	30.11	150.0	H	1.0	-82.3

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

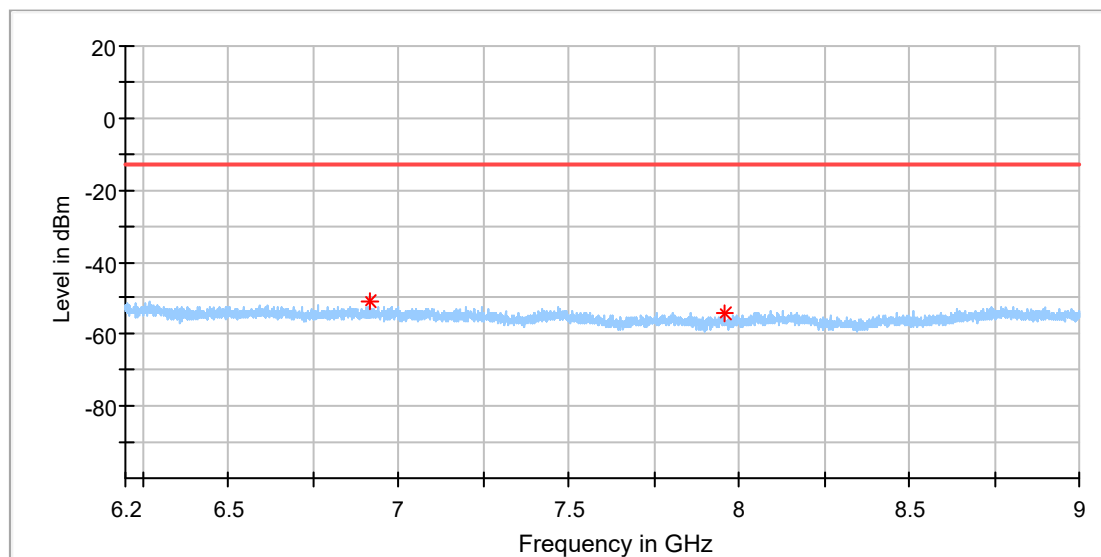


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1414.000000	-46.28	-13.00	33.28	150.0	V	22.0	-91.6
2226.500000	-47.51	-13.00	34.51	150.0	V	242.0	-86.0
3606.000000	-44.58	-13.00	31.58	150.0	V	47.0	-84.0
4639.000000	-41.96	-13.00	28.96	150.0	V	237.0	-81.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

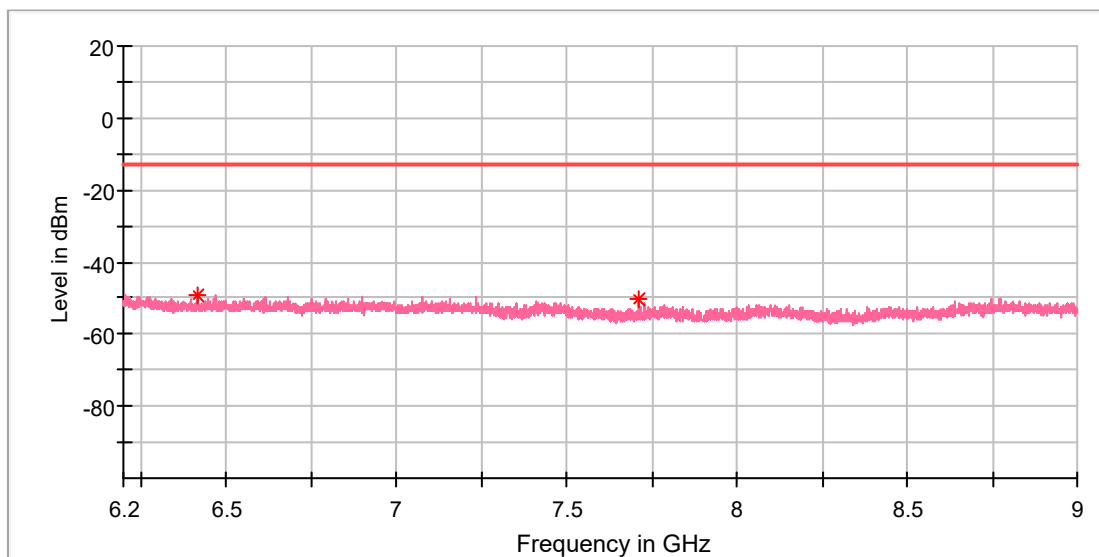


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6916.358333	-51.11	-13.00	38.11	150.0	H	143.0	-88.9
7960.166667	-54.06	-13.00	41.06	150.0	H	173.0	-89.1

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 12_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

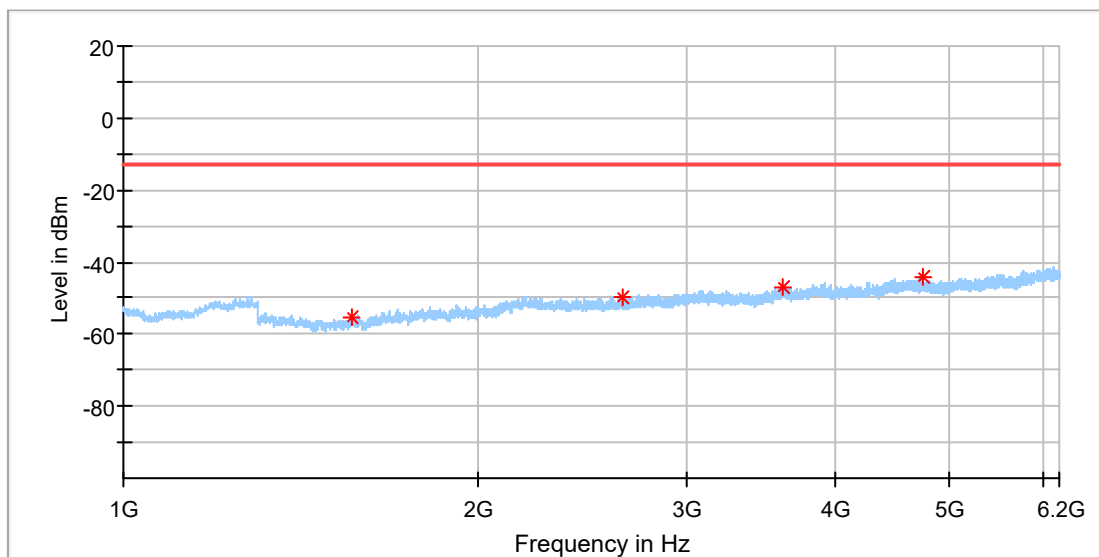


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6415.841667	-48.96	-13.00	35.97	150.0	V	101.0	-86.7
7711.383333	-50.49	-13.00	37.49	150.0	V	11.0	-87.4

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

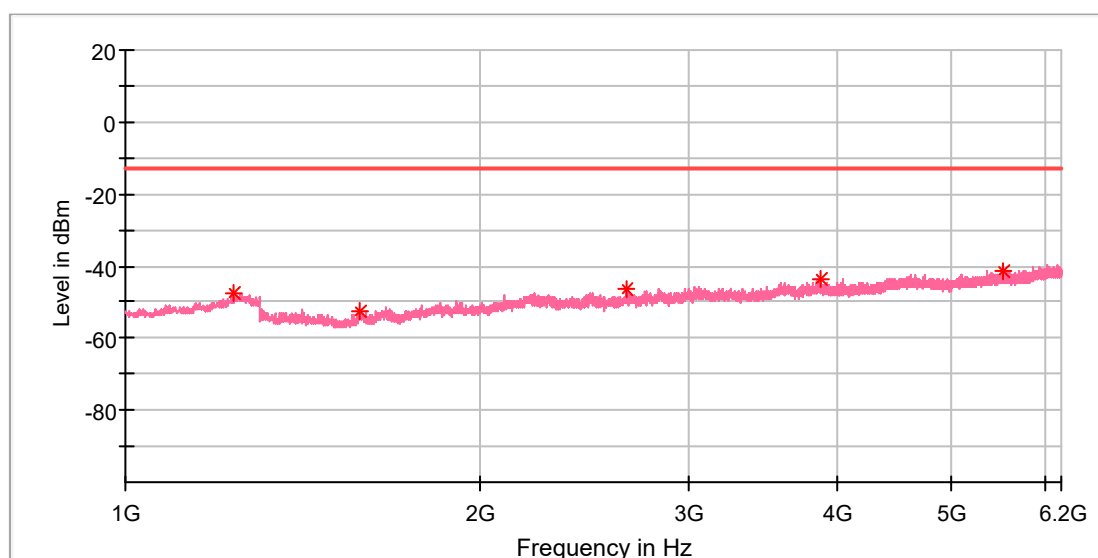


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1561.500000	-55.25	-13.00	42.25	150.0	H	290.0	-93.5
2644.000000	-49.53	-13.00	36.53	150.0	H	319.0	-88.6
3621.000000	-46.75	-13.00	33.75	150.0	H	203.0	-86.1
4748.000000	-44.03	-13.00	31.03	150.0	H	203.0	-83.8

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

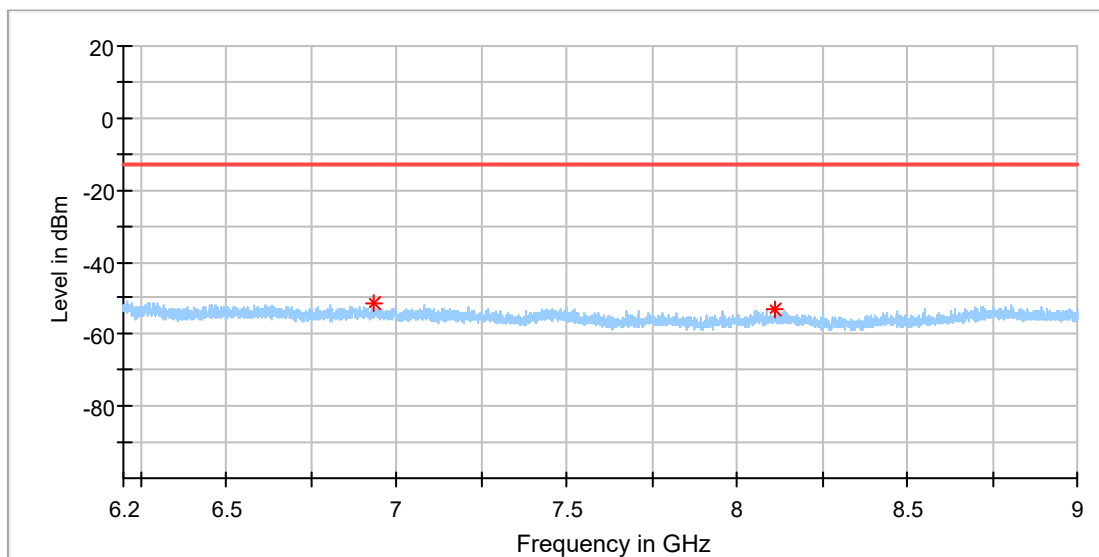


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1237.000000	-47.38	-13.00	34.38	150.0	V	289.0	-91.2
1581.000000	-52.73	-13.00	39.73	150.0	V	50.0	-90.8
2657.000000	-46.48	-13.00	33.48	150.0	V	243.0	-86.1
3876.500000	-43.59	-13.00	30.59	150.0	V	249.0	-83.4
5529.500000	-41.22	-13.00	28.22	150.0	V	116.0	-80.2

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

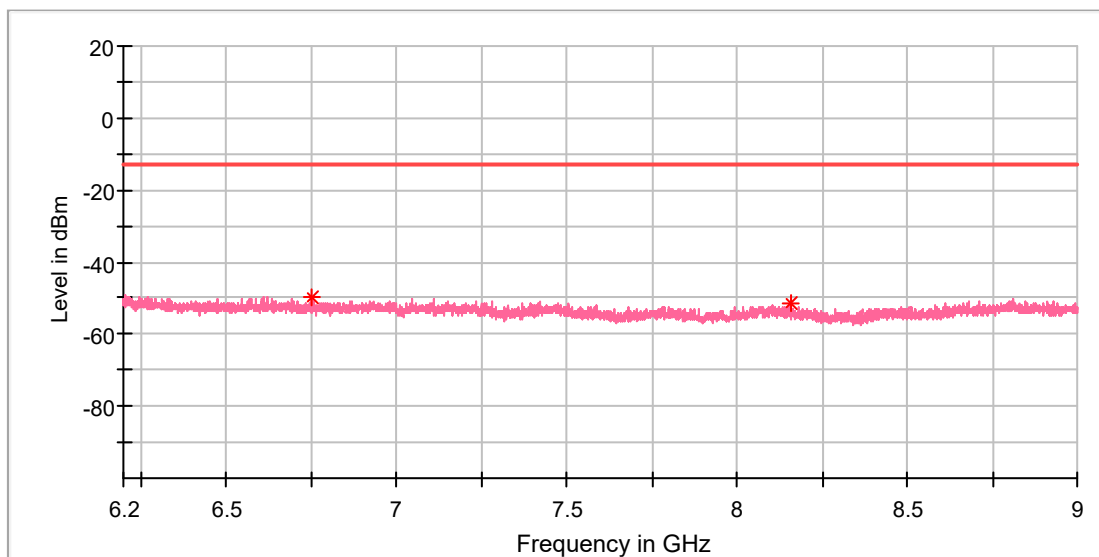


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6935.533333	-51.45	-13.00	38.45	150.0	H	102.0	-88.9
8110.125000	-53.38	-13.00	40.38	150.0	H	354.0	-88.4

EUT Information

EUT Name: WisGate Soho Lite
Model: RAK7266
Test Mode: LTE Band 13_5M_QPSK_Mid channel
Order No/Sample No: 168567670/A004050424-008
Test Voltage:: Adaptor
Remark: Temp 22 Humi:55%
Test Standard: FCC Part 27
Tested By: Kei Zhang
Reviewed By: Terry Yin

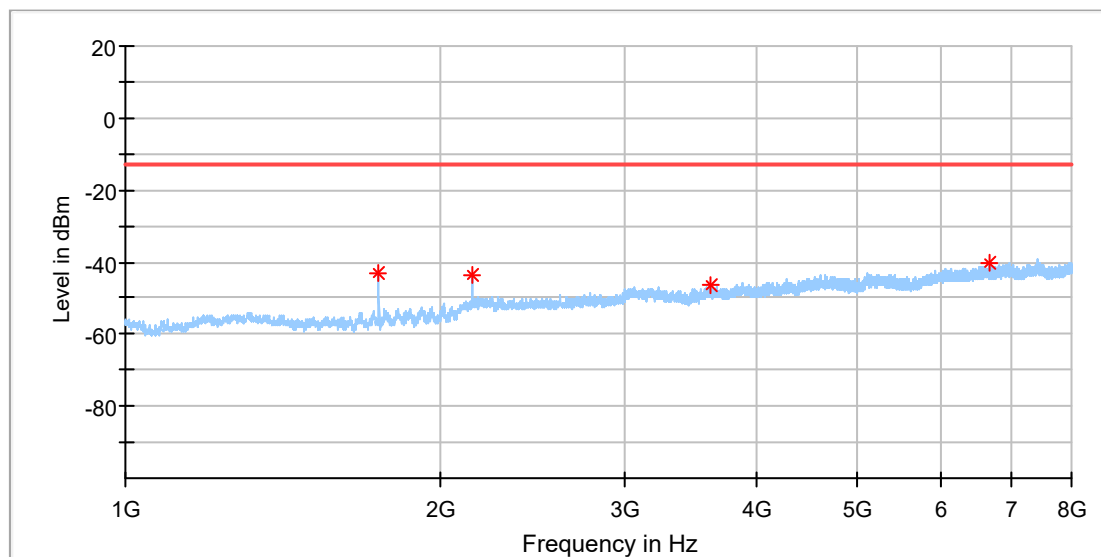


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6753.616667	-49.84	-13.00	36.84	150.0	V	317.0	-87.7
8158.308333	-51.31	-13.00	38.31	150.0	V	91.0	-86.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

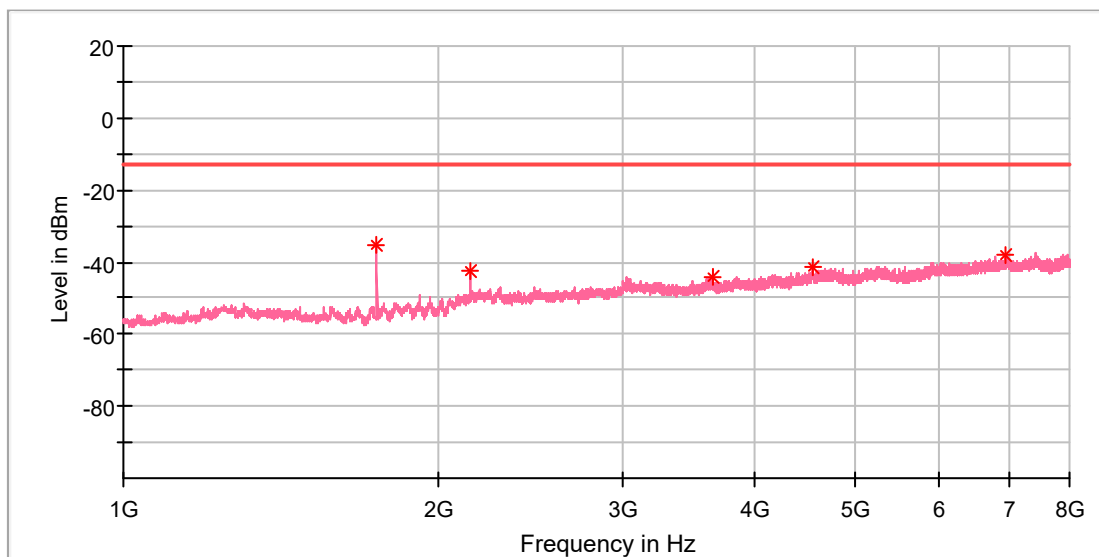


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1744.500000	-43.11	-13.00	30.11	150.0	H	126.0	-91.9
2145.000000	-43.48	-13.00	30.48	150.0	H	326.0	-88.2
3626.000000	-46.57	-13.00	33.57	150.0	H	90.0	-85.7
6669.500000	-40.26	-13.00	27.26	150.0	H	359.0	-79.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

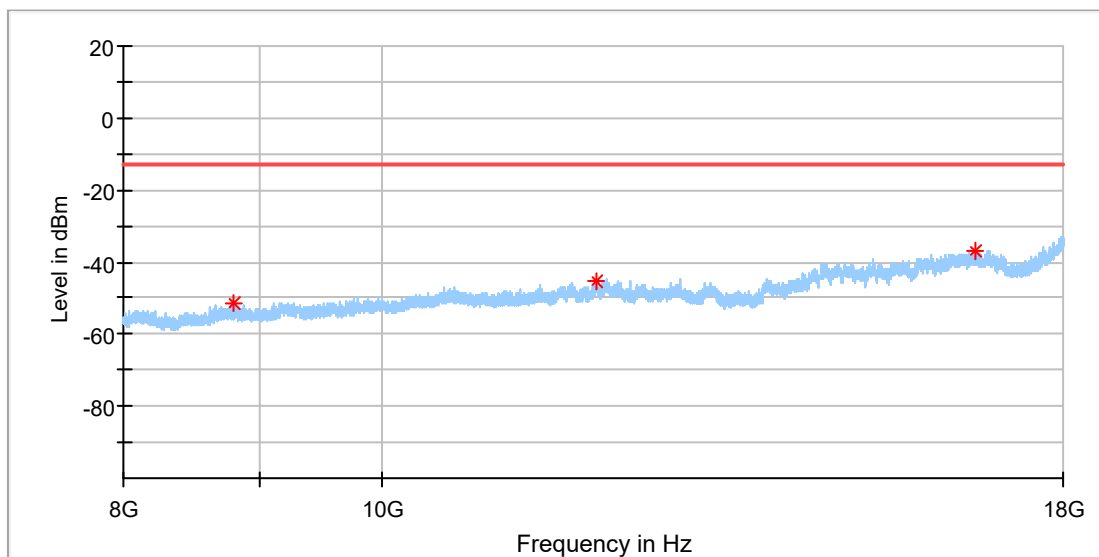


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1744.500000	-35.38	-13.00	22.38	150.0	V	112.0	-89.5
2145.000000	-42.25	-13.00	29.25	150.0	V	155.0	-86.6
3653.500000	-44.27	-13.00	31.27	150.0	V	244.0	-83.4
4553.000000	-41.48	-13.00	28.48	150.0	V	150.0	-80.9
6945.500000	-38.28	-13.00	25.28	150.0	V	143.0	-77.0

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

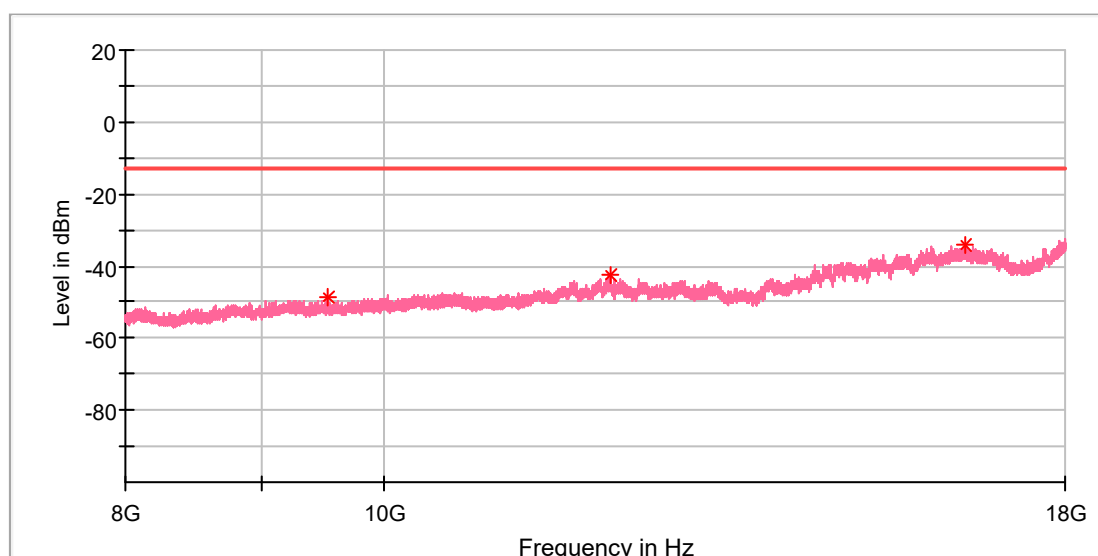


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
8798.500000	-51.36	-13.00	38.36	150.0	H	189.0	-86.4
12041.500000	-45.41	-13.00	32.41	150.0	H	329.0	-79.6
16671.500000	-37.01	-13.00	24.01	150.0	H	0.0	-73.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	LTE Band 66_1.4M_QPSK_Mid channel
Order No/Sample No:	168567670/A004050424-008
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 27
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



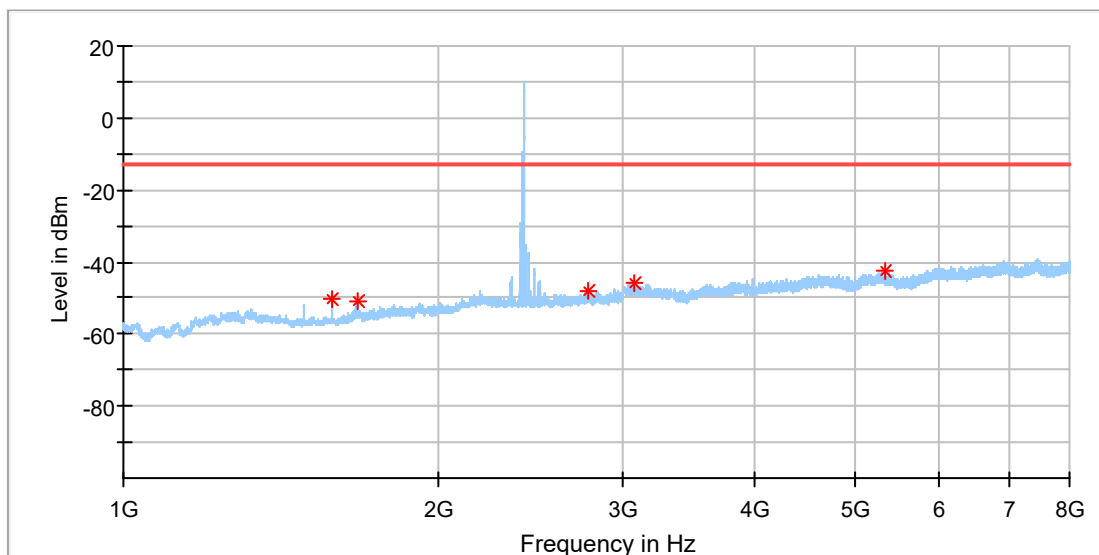
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9529.500000	-48.82	-13.00	35.82	150.0	V	210.0	-84.4
12150.500000	-42.51	-13.00	29.51	150.0	V	151.0	-77.7
16513.000000	-34.39	-13.00	21.39	150.0	V	221.0	-70.9

Radiated Transmitter Unwanted Emissions for Co-Tx, Above 1GHz

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

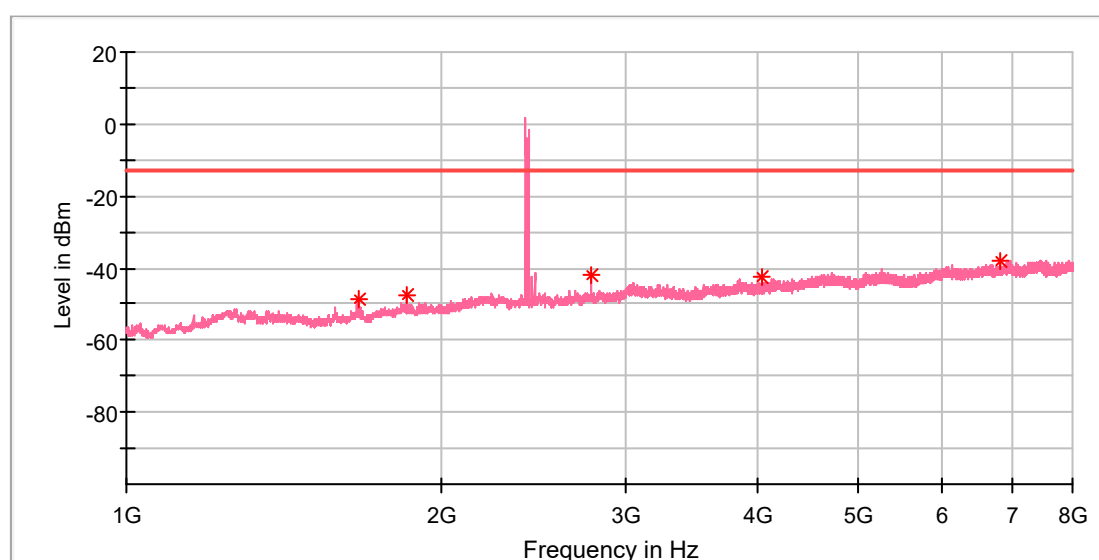


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1581.500000	-50.60	-13.00	37.60	150.0	H	163.0	-93.9
1672.000000	-50.82	-13.00	37.82	150.0	H	247.0	-92.5
2782.500000	-48.13	-13.00	35.13	150.0	H	141.0	-87.6
3073.500000	-45.60	-13.00	32.60	150.0	H	330.0	-85.1
5328.500000	-42.57	-13.00	29.57	150.0	H	323.0	-82.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

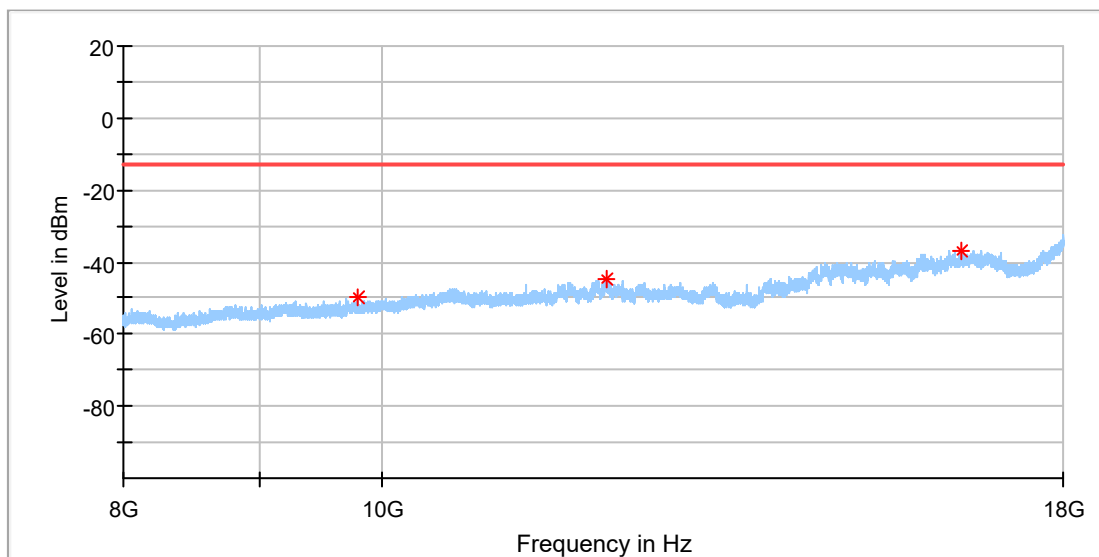


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1667.000000	-48.78	-13.00	35.78	150.0	V	314.0	-90.3
1855.500000	-47.45	-13.00	34.45	150.0	V	274.0	-88.2
2782.500000	-41.68	-13.00	28.68	150.0	V	268.0	-85.7
4034.000000	-42.30	-13.00	29.30	150.0	V	133.0	-82.8
6830.000000	-38.11	-13.00	25.11	150.0	V	65.0	-77.6

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

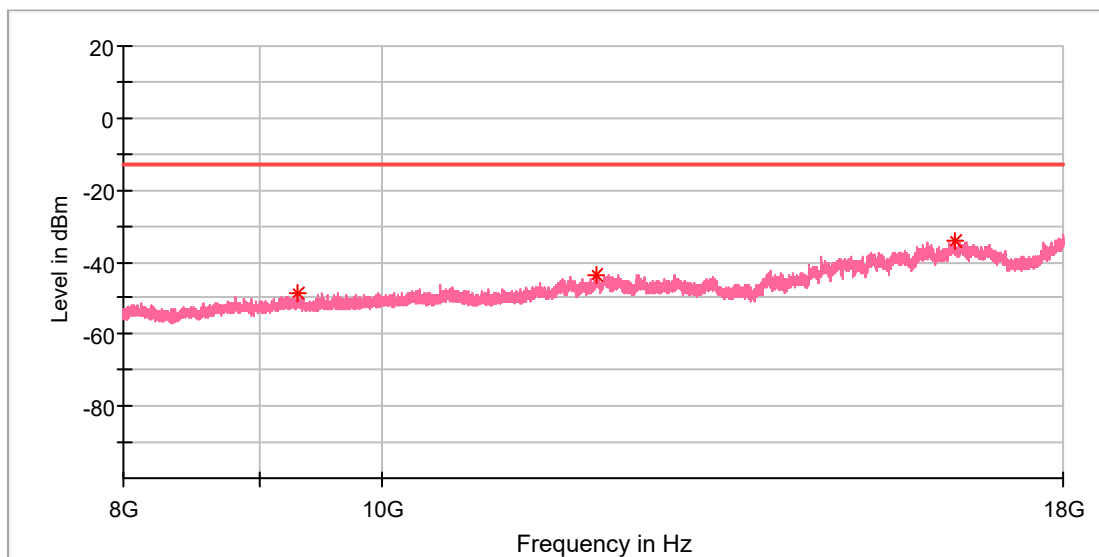


Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9797.000000	-49.77	-13.00	36.77	150.0	H	16.0	-84.7
12137.000000	-44.87	-13.00	31.87	150.0	H	274.0	-79.8
16493.000000	-36.81	-13.00	23.81	150.0	H	267.0	-73.5

EUT Information

EUT Name:	WisGate Soho Lite
Model:	RAK7266
Test Mode:	WIFI 2.4G+Lora+LTE
Order No/Sample No:	168567670/A004050424-007
Test Voltage::	Adaptor
Remark:	Temp 22 Humi:55%
Test Standard:	FCC Part 22
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



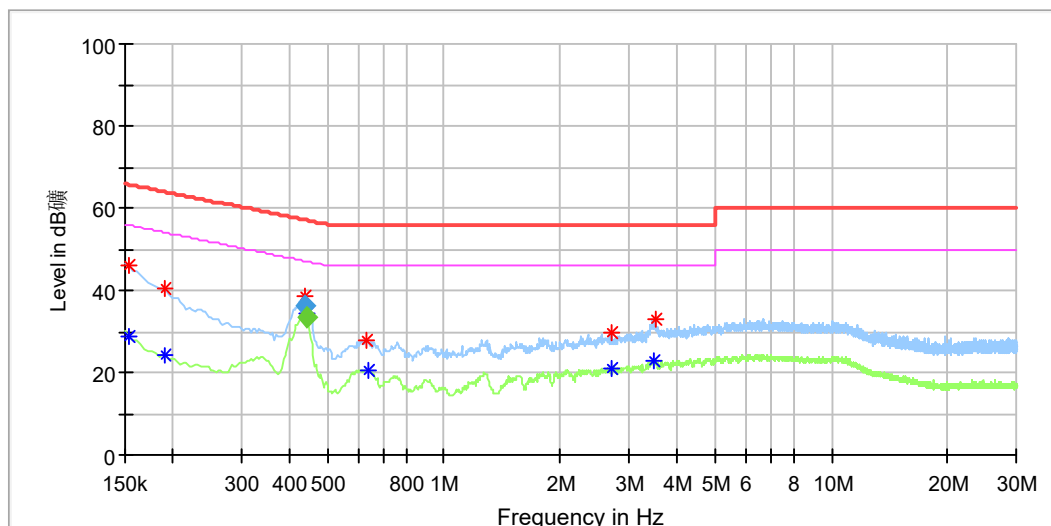
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
9301.000000	-48.48	-13.00	35.48	150.0	V	62.0	-84.1
12041.000000	-43.70	-13.00	30.70	150.0	V	288.0	-77.8
16398.000000	-33.94	-13.00	20.94	150.0	V	207.0	-70.8

Appendix A.2: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: WisGate Soho Lite
Order Number: 168567670
Model: RAK7266
Test Mode: On, Normal operation powered by DC port, LoRa Link + 2.4G WIFI Link + LTE Link + Data transmission with ETH port
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By./Review By: Junhua Sun / Murphy Chen
Tem./Hum./Pressure: 24.1°C/52.4%/101kPa
Remark: SR 3



Critical Freqs

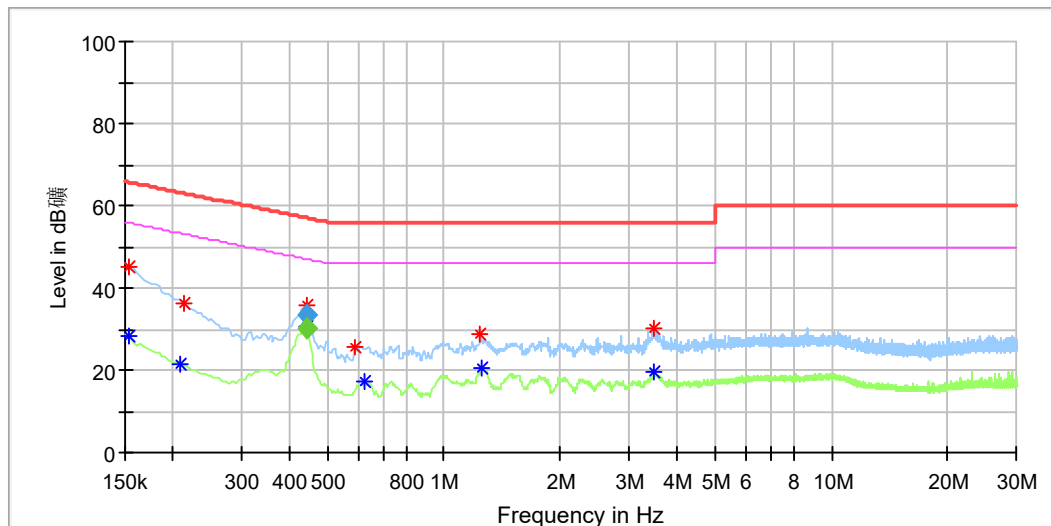
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.154	---	29.0	55.80	26.80	L1	9.8
0.154	46.0	---	65.80	19.76	L1	9.8
0.191	---	24.2	53.99	29.76	L1	9.8
0.191	40.3	---	63.99	23.65	L1	9.8
0.437	38.7	---	57.11	18.45	L1	9.9
0.441	---	34.6	47.04	12.45	L1	9.9
0.628	28.0	---	56.00	28.01	L1	9.9
0.635	---	20.4	46.00	25.63	L1	9.9
2.710	29.6	---	56.00	26.38	L1	10.1
2.721	---	21.0	46.00	25.03	L1	10.1
3.475	---	22.9	46.00	23.13	L1	10.1
3.508	33.1	---	56.00	22.93	L1	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.437	36.4	---	57.11	20.74	1000.0	9.0	L1	9.9
0.441	---	33.5	47.04	13.52	1000.0	9.0	L1	9.9

EUT Information

EUT Name: WisGate Soho Lite
Order Number: 168567670
Model: RAK7266
Test Mode: On, Normal operation powered by DC port, LoRa Link + 2.4G WIFI Link + LTE Link + Data transmission with ETH port
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By./Review By: Junhua Sun / Murphy Chen
Tem./Hum./Pressure: 24.1°C/52.4%/101kPa
Remark: SR 3



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154	---	28.5	55.80	27.32	N	9.7
0.154	45.1	---	65.80	20.74	N	9.7
0.210	---	21.2	53.22	32.05	N	9.7
0.213	36.3	---	63.07	26.74	N	9.7
0.441	---	30.9	47.04	16.13	N	9.7
0.441	35.8	---	57.04	21.22	N	9.7
0.587	25.6	---	56.00	30.38	N	9.7
0.624	---	17.4	46.00	28.56	N	9.7
1.236	28.9	---	56.00	27.10	N	9.8
1.254	---	20.5	46.00	25.49	N	9.8
3.467	30.1	---	56.00	25.88	N	9.8
3.489	---	19.4	46.00	26.64	N	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.441	---	30.2	47.04	16.80	1000.0	9.0	N	9.7
0.441	33.3	---	57.04	23.76	1000.0	9.0	N	9.7