

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24DMBD 001	Auftrags-Nr.: <i>Order no.:</i>	168498516 (P01599877)	Seite 1 von 11 Page 1 of 11
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-08-12	
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 Pro			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RAK7267 (Trademark: )			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
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>	2024-08-12	Refer to photos documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003790302-001			
Prüfzeitraum: <i>Testing period:</i>	2024-08-12 - 2024-09-23			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
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>	2024-10-18	Ausstellungsdatum: <i>Issue date:</i>	2024-10-18	
Stellung / Position	Sachverständige(r)/Expert	Stellung / Position	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2AF6B-RAK7267			
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 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>				

Prüfbericht-Nr.: CN24DMBD 001
Test report no.:

Seite 2 von 11
Page 2 of 11

Anmerkungen Remarks

- | | |
|----------|--|
| 1 | <p>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.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><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.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>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.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

Prüfbericht - Nr.: CN22LJYU 003
Test report no.

Seite 3 von 11
Page 3 of 11

Test Summary

5.1 Radiated emissions
RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES.....	5
2.1	TEST FACILITIES.....	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY	6
2.6	LOCATION OF ORIGINAL DATA	6
2.7	STATUS OF FACILITY USED FOR TESTING	6
3	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	7
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
3.5	SUBMITTED DOCUMENTS.....	7
4	TEST SET-UP AND OPERATION MODES	8
4.1	PRINCIPLE OF CONFIGURATION SELECTION	8
4.2	TEST OPERATION AND TEST SOFTWARE	8
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	8
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	8
4.5	TEST SETUP DIAGRAM	9
5	TEST RESULTS.....	10
5.1	RADIATED EMISSION	10
6	LIST OF TABLES	11

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.

Appendix B: Test Setup Photos.

2 Test Sites

2.1 Test Facilities

Shenzhen UnionTrust Quality and Technology Co., Ltd.

16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

A2LA Certificate Number: 4312.01

IC Registration No.: 21600, CAB identifier: CN0032

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Radiated Disturbances				
3m Chamber & Accessory Equipment	ETS-Lindgren	3m	Euroshiedpn-CT001270-1317	10-Nov-2026
Broadband Antenna	ETS-Lindgren	3142E	00201566	29-Oct-2024
6dB Attenuator	Talent	RA6A5-N-18	18103001	29-Oct-2024
Pre-amplifier	HP	8447F	2805A02960	30-Oct-2024
Receiver	ROHDE & SCHWARZ	ESIB26	100114	26-Oct-2024
Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	31-Mar-2025
Pre-amplifier	ETS-Lindgren	00118385	00201874	30-Oct-2024
Multi device Controller	ETS-Lindgren	7006-001	00160105	N/A
Test Software	Audix	e3	Software Version: 9.160323	

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

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	± 3.2 dB
2	Conducted emission 150kHz-30MHz	± 2.7 dB
3	Radiated emission 30MHz-1GHz	± 4.6 dB
4	Radiated emission 1GHz-18GHz	± 4.4 dB
Remark: 95% Confidence Levels, k=2.		

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 Shenzhen UnionTrust Quality and Technology Co., Ltd. facility located at 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, 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 Soho Pro which supports Lora, GNSS, 2.4GHz Wi-Fi and LTE wireless technologies.

Contains FCC ID: 2AF6B-RAK634, XMR2023EG915QNA.

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 Soho Pro
Type Designation:	RAK7267
Operating Voltage:	DC 9-36V
Testing Voltage:	DC 9-36V

3.3 Independent Operation Modes

The basic operation modes are:

A. On, WIFI link + LTE link + Lora link

Note: GNSS function is active during test.

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 RAK7267.

This product is powered by DC 9-36V via Solar Battery Kits.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	DELL	Latitude 3400	N/A
Mouse	DELL	MS11-T	N/A
Storage Battery	Camel	L2400 6-QW-60	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

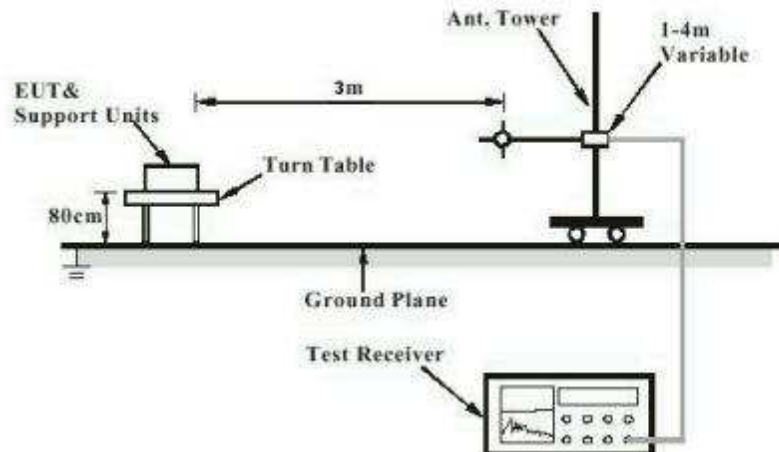
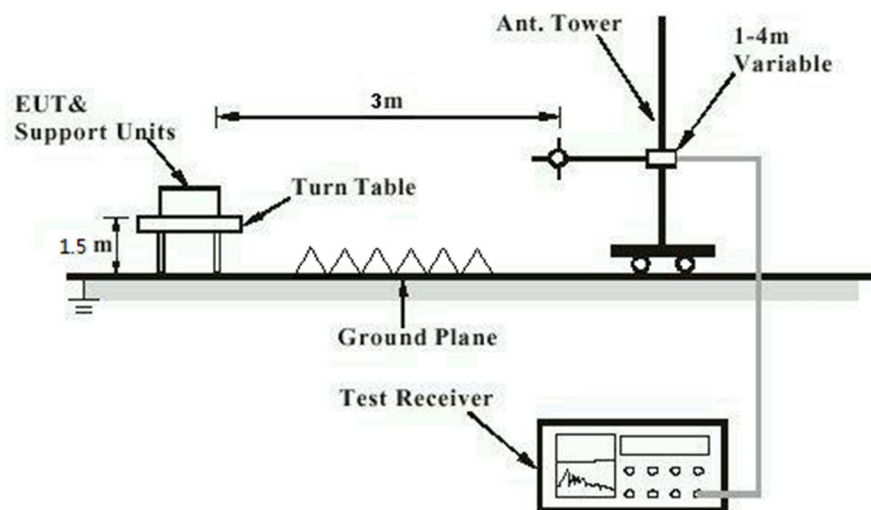


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5 Test Results

5.1 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	: 2024-08-12 - 2024-09-23
Input voltage	: DC 12V
Operation mode	: A
Earthing	: Not Connected
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: Refer to test data

For the measurement records, refer to appendix A.

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 (RAK7267) has been evaluated according to module: 2.4G WIFI (contains FCC ID: 2AF6B-RAK634, IC: 25908-RAK634) and LTE (contains FCC ID: XMR2023EG915QNA, IC: 10224A-023EG915QNA) procedure in test report CN24DMBD 002, and the Radiated Spurious Emissions was carried out within frequency range 9 kHz to the fifth harmonics, refer to CN24DMBD 002 for details of measurement results.

6 List of Tables

Table 1: List of Test and Measurement Equipment..... 5
 Table 2: Technical Specification of EUT 7
 Table 3: List of Accessories and Auxiliary Equipment..... 8

Appendix A

Test Results

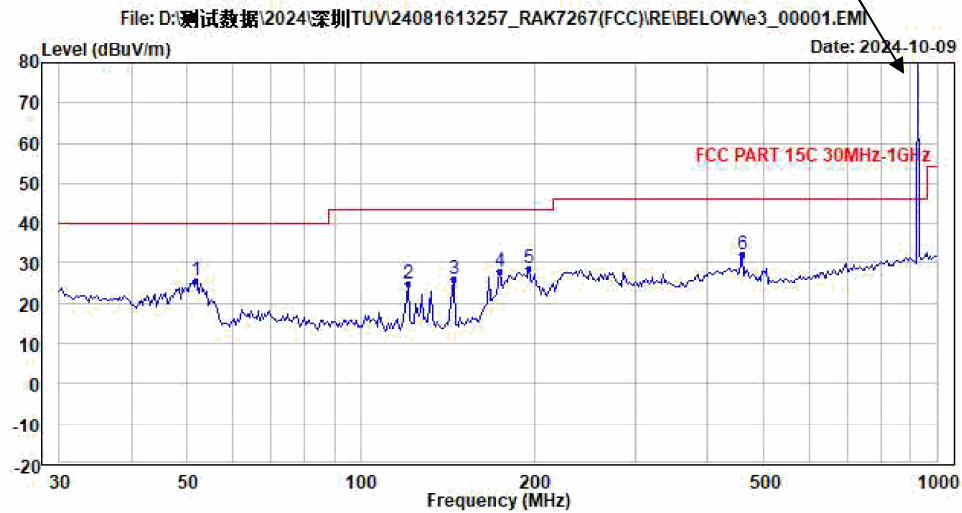
1	APPENDIX A.2: TEST PLOTS OF RADIATED EMISSIONS, BELOW 1GHZ.....	2
2	APPENDIX A.3: TEST PLOTS OF RADIATED EMISSIONS, ABOVE 1GHZ.....	6

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



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Fundamental of Lora



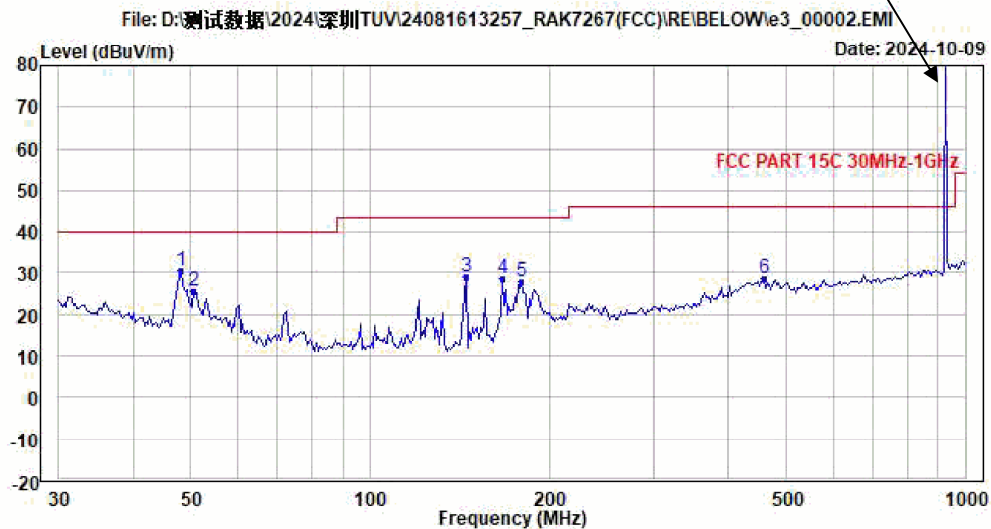
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/59.6(%)
Press : 100.0kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : DC_12V
Test Engineer : Bowie
Test Mode : Test Mode1: Lora_925.1MHz+WiFi+Band2_1880MHz
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	51.900	25.74	40.18	13.66	0.80	0.00	28.90	40.00	-14.26	Peak
2	120.612	24.93	40.34	12.38	1.13	0.00	28.92	43.50	-18.57	Peak
3	144.790	26.13	41.05	12.80	1.22	0.00	28.94	43.50	-17.37	Peak
4	173.815	27.89	39.25	16.28	1.33	0.00	28.97	43.50	-15.61	Peak
5	195.870	28.58	39.76	16.41	1.41	0.00	29.00	43.50	-14.92	Peak
6 PP	458.399	31.93	35.83	23.40	1.99	0.00	29.29	46.00	-14.07	Peak



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Fundamental of Lora



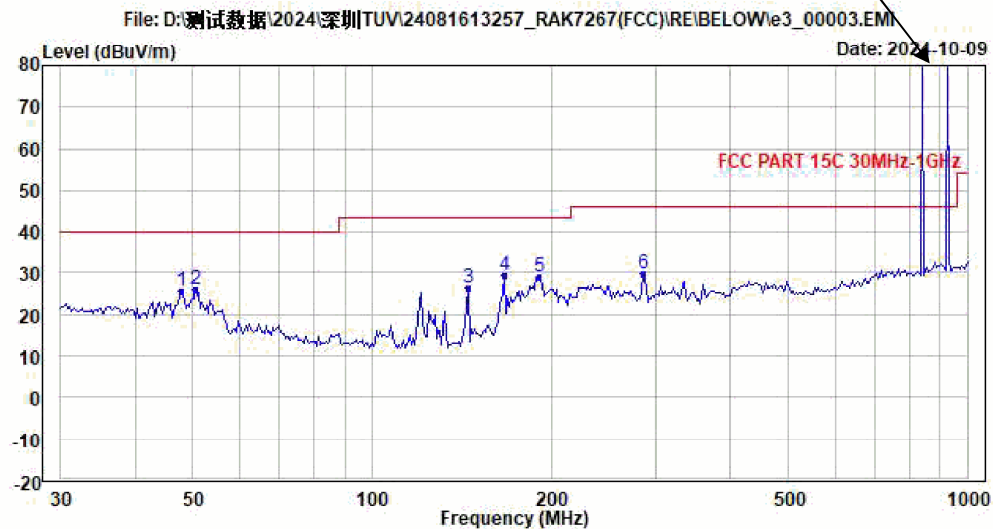
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/59.6(%)
Press : 100.0kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : DC_12V
Test Engineer : Bowie
Test Mode : Test Model: Lora_925.1MHz+WiFi+Band2_1880MHz
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1 PP	48.039	30.58	43.77	14.90	0.81	0.00	28.90	40.00	-9.42	Peak
2	50.461	25.71	39.46	14.36	0.79	0.00	28.90	40.00	-14.29	Peak
3	144.790	29.17	44.09	12.80	1.22	0.00	28.94	43.50	-14.33	Peak
4	166.639	28.81	41.39	15.09	1.30	0.00	28.97	43.50	-14.69	Peak
5	180.030	27.74	39.57	15.80	1.35	0.00	28.98	43.50	-15.76	Peak
6	458.399	28.76	32.66	23.40	1.99	0.00	29.29	46.00	-17.24	Peak



Shenzhen Union Trust Certified Technology Co., Ltd.

Fundamental of Lora and LTE



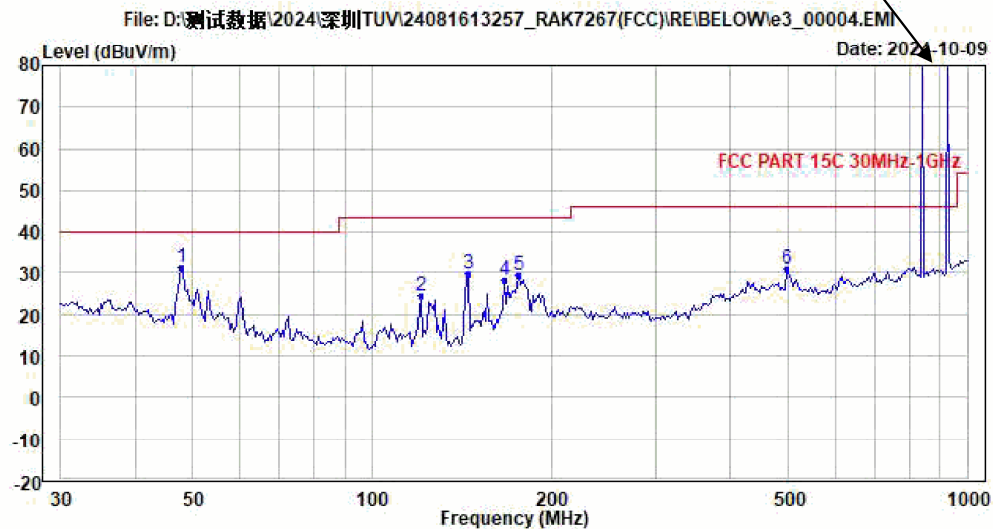
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/59.6(%)
Press : 100.0kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : DC_12V
Test Engineer : Bowie
Test Mode : Test Mode2: Lora_925.1MHz+WiFi+Band5_836.5MHz
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	47.703	25.48	38.58	14.99	0.81	0.00	28.90	40.00	-14.52	Peak
2 PP	50.461	25.97	39.72	14.36	0.79	0.00	28.90	40.00	-14.03	Peak
3	144.790	26.38	41.30	12.80	1.22	0.00	28.94	43.50	-17.12	Peak
4	166.639	29.33	41.91	15.09	1.30	0.00	28.97	43.50	-14.17	Peak
5	190.441	29.18	40.94	15.84	1.39	0.00	28.99	43.50	-14.32	Peak
6	286.265	29.77	39.19	18.05	1.62	0.00	29.09	46.00	-16.23	Peak



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Fundamental of Lora and LTE



Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/59.6(%)
Press : 100.0kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : DC_12V
Test Engineer : Bowie
Test Mode : Test Mode2: Lora_925.1MHz+WiFi+Band5_836.5MHz
Remark :

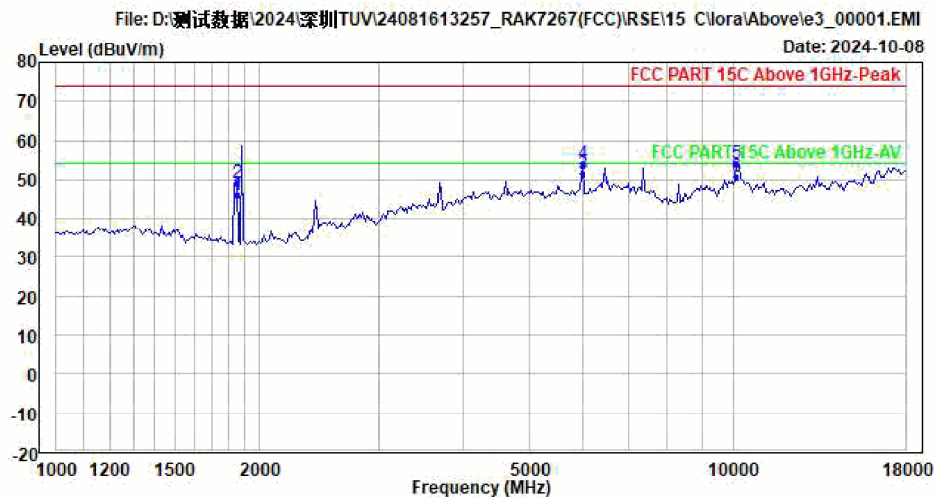
	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1 PP	47.703	31.20	44.30	14.99	0.81	0.00	28.90	40.00	-8.80	Peak
2	120.612	24.64	40.05	12.38	1.13	0.00	28.92	43.50	-18.86	Peak
3	144.790	29.69	44.61	12.80	1.22	0.00	28.94	43.50	-13.81	Peak
4	166.639	28.41	40.99	15.09	1.30	0.00	28.97	43.50	-15.09	Peak
5	176.275	29.52	41.06	16.10	1.34	0.00	28.98	43.50	-13.98	Peak
6	498.730	30.76	33.30	24.75	2.06	0.00	29.35	46.00	-15.24	Peak

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

Note: Testing was carried out within frequency range 30MHz to the 5th harmonics. The measurement results above 18GHz were greater than 20dB below the limit, so only record the test result within the 30MHz to 18GHz.



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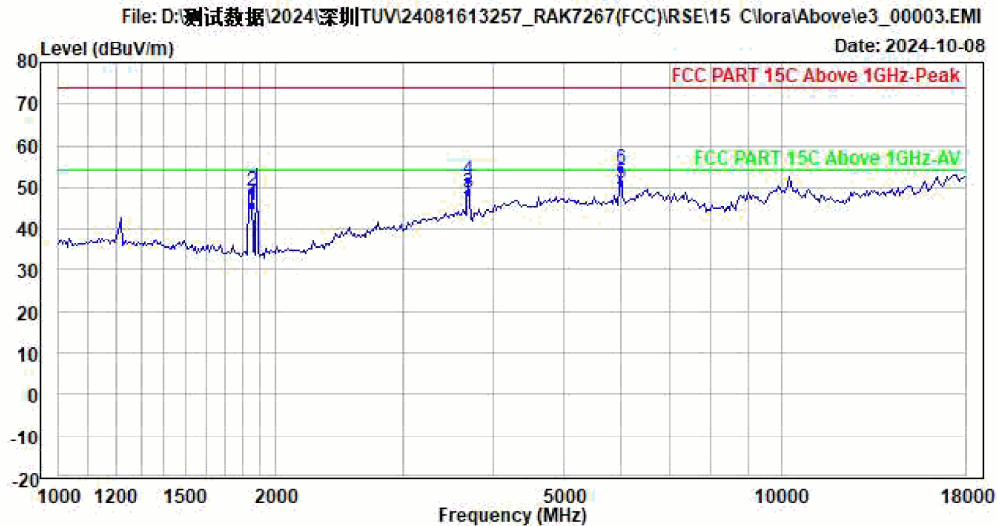


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.3 (C)/54.6(%)
Press : 100.2kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC_120V/60Hz
Test Engineer : Bowie
Test Mode : TM1: Lora_925.1Mhz+WiFi+LTE_B2
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	1847.783	46.10	56.38	30.53	6.44	0.00	47.25	54.00	-7.90	Average
2	1847.783	49.24	59.52	30.53	6.44	0.00	47.25	74.00	-24.76	Peak
3	PP 5988.431	51.31	50.52	35.99	9.81	0.00	45.01	54.00	-2.69	Average
4	PK 5988.431	54.20	53.41	35.99	9.81	0.00	45.01	74.00	-19.80	Peak
5	10144.500	53.97	49.65	39.03	11.99	0.00	46.70	74.00	-20.03	Peak
6	10144.500	50.79	46.47	39.03	11.99	0.00	46.70	54.00	-3.21	Average



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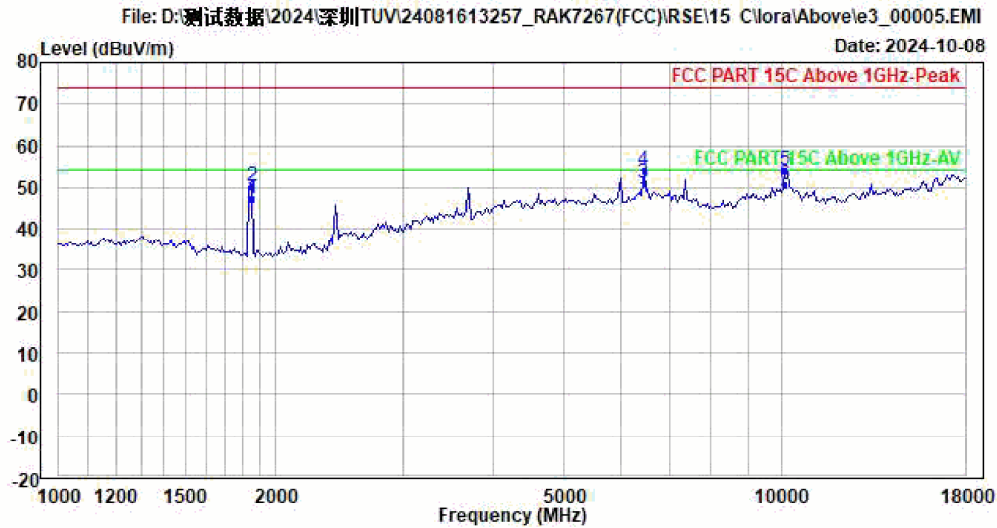


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.3 (C)/54.6(%)
Press : 100.2kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC_120V/60Hz
Test Engineer : Bowie
Test Mode : TM1: Lora_925.1Mhz+WiFi+LTE_B2
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	1847.783	45.88	56.16	30.53	6.44	0.00	47.25	54.00	-8.12	Average
2	1847.783	49.17	59.45	30.53	6.44	0.00	47.25	74.00	-24.83	Peak
3	3681.329	48.68	51.38	34.78	8.73	0.00	46.21	54.00	-5.32	Average
4	3681.329	51.95	54.65	34.78	8.73	0.00	46.21	74.00	-22.05	Peak
5 PP	5988.431	51.24	50.45	35.99	9.81	0.00	45.01	54.00	-2.76	Average
6 PK	5988.431	54.41	53.62	35.99	9.81	0.00	45.01	74.00	-19.59	Peak



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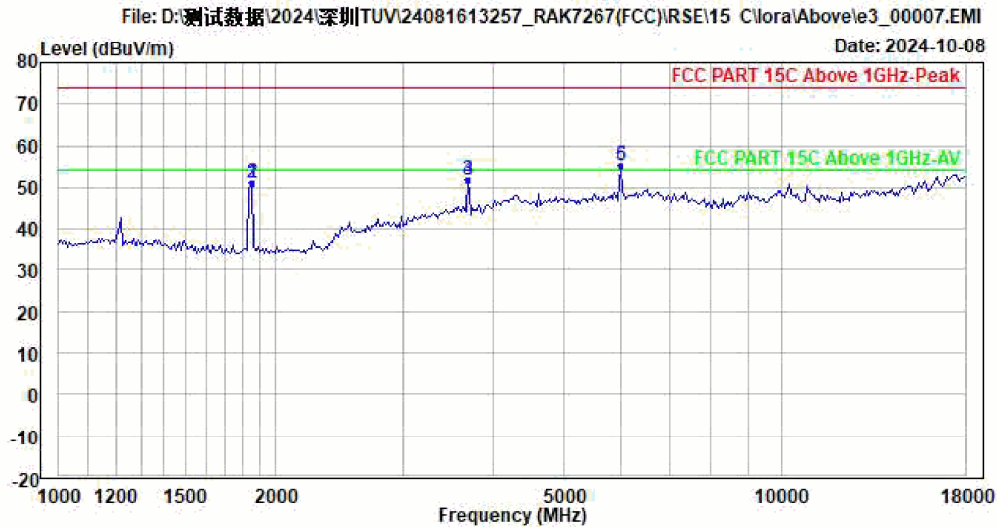


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.3 (C)/54.6(%)
Press : 100.2kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC_120V/60Hz
Test Engineer : Bowie
Test Mode : TM2: Lora_925.1Mhz+WiFi+LTE_B5
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	1847.783	47.34	57.62	30.53	6.44	0.00	47.25	54.00	-6.66	Average
2	1847.783	50.24	60.52	30.53	6.44	0.00	47.25	74.00	-23.76	Peak
3	PP 6456.773	51.16	49.68	36.64	10.02	0.00	45.18	54.00	-2.84	Average
4	PK 6456.773	54.19	52.71	36.64	10.02	0.00	45.18	74.00	-19.81	Peak
5	10144.500	53.97	49.65	39.03	11.99	0.00	46.70	74.00	-20.03	Peak
6	10144.500	50.77	46.45	39.03	11.99	0.00	46.70	54.00	-3.23	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.3 (C)/54.6(%)
Press : 100.2kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC_120V/60Hz
Test Engineer : Bowie
Test Mode : TM2: Lora_925.1Mhz+WiFi+LTE_B5
Remark :

	Freq	Level	Read Level	Ant Factor	Cable Loss	Aux Factor	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dB	dBUV/m	dB	
1	1847.783	51.18	61.46	30.53	6.44	0.00	47.25	74.00	-22.82	Peak
2	1847.783	51.18	61.46	30.53	6.44	0.00	47.25	74.00	-22.82	Peak
3	3681.329	51.95	54.65	34.78	8.73	0.00	46.21	74.00	-22.05	Peak
4	3681.329	51.95	54.65	34.78	8.73	0.00	46.21	74.00	-22.05	Peak
5 PP	5988.431	55.41	54.62	35.99	9.81	0.00	45.01	74.00	-18.59	Peak
6	5988.431	55.41	54.62	35.99	9.81	0.00	45.01	74.00	-18.59	Peak