

Prüfbericht-Nr.: Test report no.:	CN25B61Y 001	Auftrags-Nr.: Order no.:	168557586	Seite 1 von 18 Page 1 of 18
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-06-05	
Auftraggeber: Client:	Shenzhen Navynav Technology Co., Ltd. Room 502, Han's Laser Technology Centre Shennan Ave No.9988,Nanshan District, Shenzhen, Guangdong Province, China			
Prüfgegenstand: Test item:	Wireless date transceiver			
Bezeichnung / Typ-Nr.: Identification / Type no.:	M4P			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247			
Wareneingangsdatum: Date of sample receipt:	2025-06-07	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A004000487-001			
Prüfzeitraum: Testing period:	2025-06-07 - 2025-06-18			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	 X <u>Bell Hu</u>		genehmigt von: authorized by:	 X <u>Jonathan Li</u>
Datum: Date:	2025-07-16 Signed by: Bell Hu	Ausstellungsdatum: Issue date:	2025-07-16 Signed by: Jonathan Li	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BM2K-M4P, This report is for Lora (915MHz Band). This report is under FCC C2PC application for the module integration into the Host (Product: RTK Reference Station, Model: Lymow One, Manufacturer: Changzhou Lymow Technology Co., Ltd.), the antennas changed, and the related items got re-tested.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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 above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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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 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Results of DTS;

Appendix B: Photographs of Test Set-up.

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

A2LA Cert. No.: 5162.01

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2024-09-26	2025-09-25
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2024-09-26	2025-09-25
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2024-09-26	2025-09-25
DC power supply	Keysight	E3642A	MY61276100	2024-09-26	2025-09-25
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2024-09-26	2025-09-25
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2024-09-26	2025-09-25
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27

Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2026-02-09
Artificial Mains Network	R&S	ENV216	102333	2025-07-22
LISN ENV216-Receiver cable in SR3	Calibration frequency range: 9 kHz~30 MHz			2025-12-20
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Table 2: Measurement Uncertainty

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

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2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 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 product is Wireless data transceiver, which supports 915MHz Band LoRa wireless function.

This report is under FCC C2PC application for the module integration into the Host (Product: RTK Reference Station, Model: Lymow One, Changzhou Lymow Technology Co., Ltd.), the antennas changed, and the related items got re-tested.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Wireless data transceiver
Type Designation	M4P
FCC ID	2BM2K-M4P
Operating Voltage	3.3V
Technical Specification of LoRa DTS	
Operating Frequency	902.50MHz ~ 927.49MHz
Type of Modulation	CSS
Channel Number	50
Channel Separation	510kHz
Antenna Type	External Antenna (RP-SMA)
Antenna Number	1Tx1Rx
Antenna Gain	4.36 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: Technical Specification of Host

General Information	Description
Kind of Equipment:	RTK Reference Station
Type Designation:	Lymow One
Operating Voltage:	DC 12V
Testing Voltage:	DC 12V
Manufacturer:	Changzhou Lymow Technology Co., Ltd.

Table 5: RF Channel and Frequency

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	902.50	13	909.13	26	915.76	39	922.39
01	903.01	14	909.64	27	916.27	40	922.90
02	903.52	15	910.15	28	916.78	41	923.41
03	904.03	16	910.66	29	917.29	42	923.92
04	904.54	17	911.17	30	917.80	43	924.43
05	905.05	18	911.68	31	918.31	44	924.94
06	905.56	19	912.19	32	918.82	45	925.45
07	906.07	20	912.70	33	919.33	46	925.96
08	906.58	21	913.21	34	919.84	47	926.47
09	907.09	22	913.72	35	920.35	48	926.98
10	907.60	23	914.23	36	920.86	49	927.49
11	908.11	24	914.74	37	921.37	/	/
12	908.62	25	915.25	38	921.88	/	/

Note: The display in grey were the channel selected for testing.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, LoRa DTS transmitting mode
- 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - Block Diagram |
| - PCB Layout | - ID Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model *M4P* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
AC/DC Adapter	Trythink	TS-A012-1201004	/

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

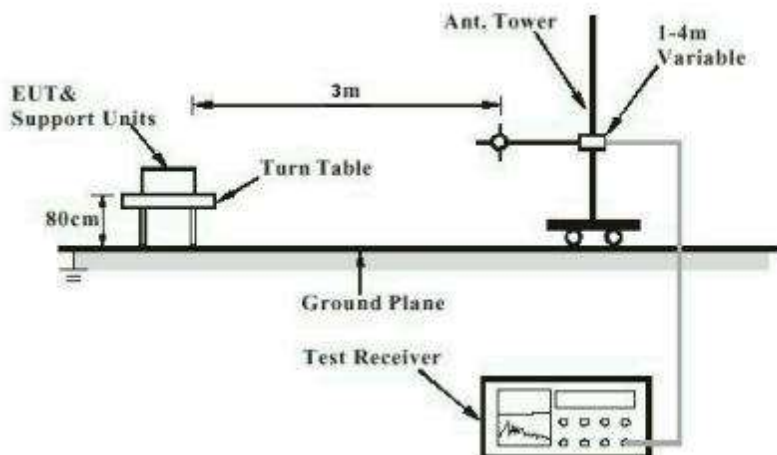


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

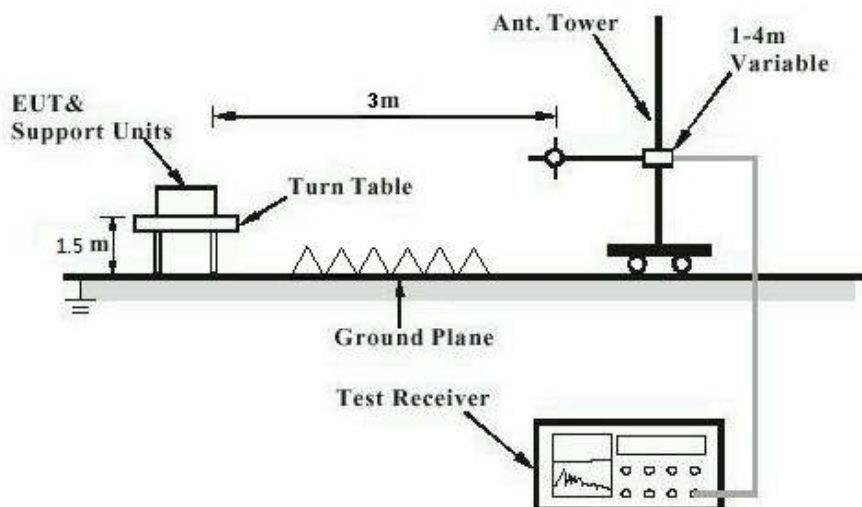


Diagram of Measurement Configuration for Mains Conduction Measurement

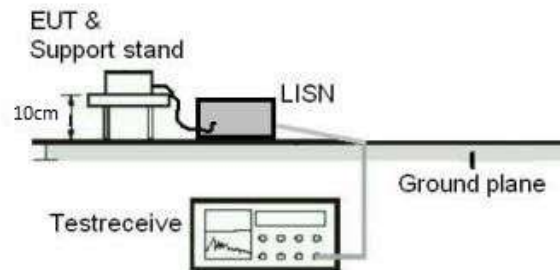
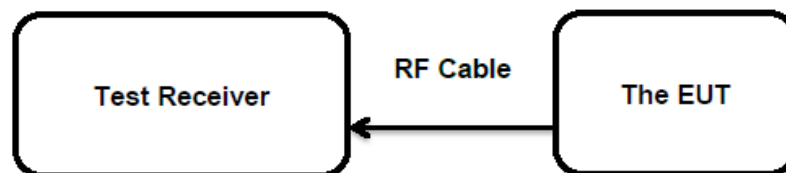


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

The EUT has an external antenna with Non-Standard RP-SMA connector and no consideration of replacement, the max. antenna gain is 4.36dBi.

EUT complies with the requirement of § 15.203.
Therefore EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-06-11 to 2025-06-16
Input voltage	: 12V DC
Operation mode	: A
Test channel	: Low/Middle/High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

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

For the measurement records, refer to the appendix A.

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5.1.3 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.4:2014
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-06-11 to 2025-06-16
Input voltage	: 120V AC/60Hz from the adapter
Operation mode	: A
Test channel	: Low/Middle/High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

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

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Appendix A: Test Results of LoRa DTS

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30 MHz - 1GHz.....	2
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Appendix A.1: Test Results of Radiated Spurious Emissions

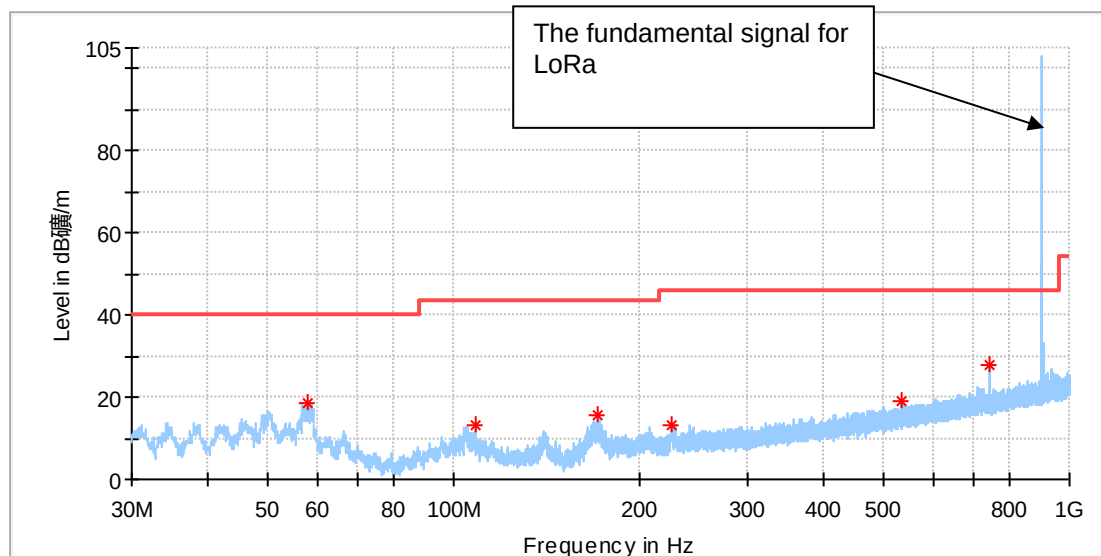
Note:

- 1) This testing was carried out on different modulations for all channels, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 10GHz were reported.

30 MHz - 1GHz

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

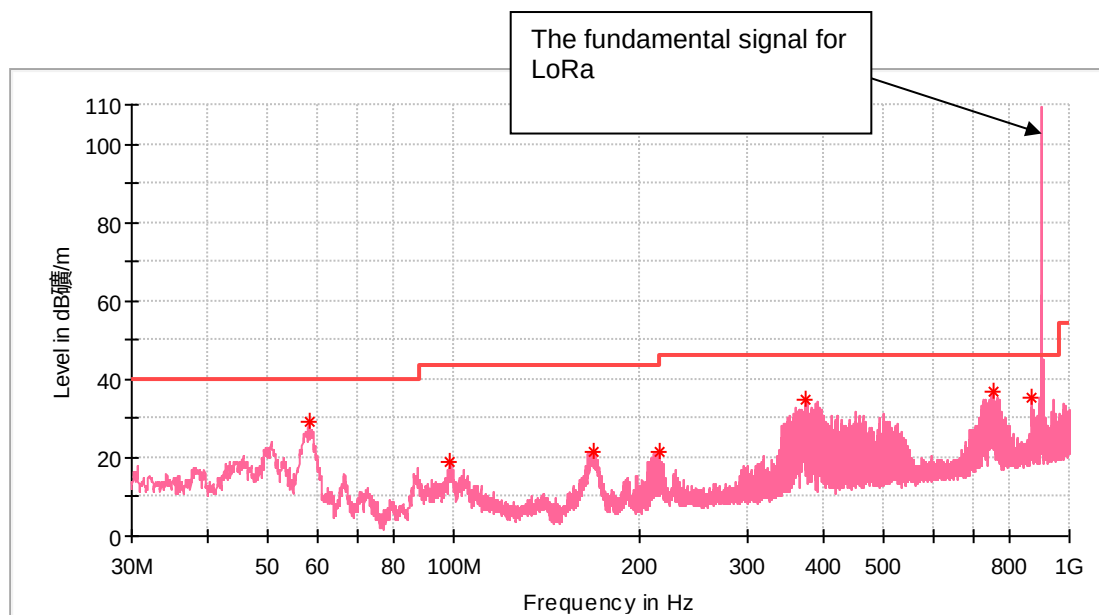
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.055385	18.32	40.00	21.68	100.0	H	69.0	-18.9
108.458077	13.17	43.50	30.33	100.0	H	217.0	-19.1
171.470769	15.42	43.50	28.08	100.0	H	258.0	-21.2
226.014615	13.37	46.00	32.63	100.0	H	262.0	-18.3
534.138846	19.18	46.00	26.82	100.0	H	158.0	-11.1
742.502308	27.90	46.00	18.10	100.0	H	138.0	-7.2

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

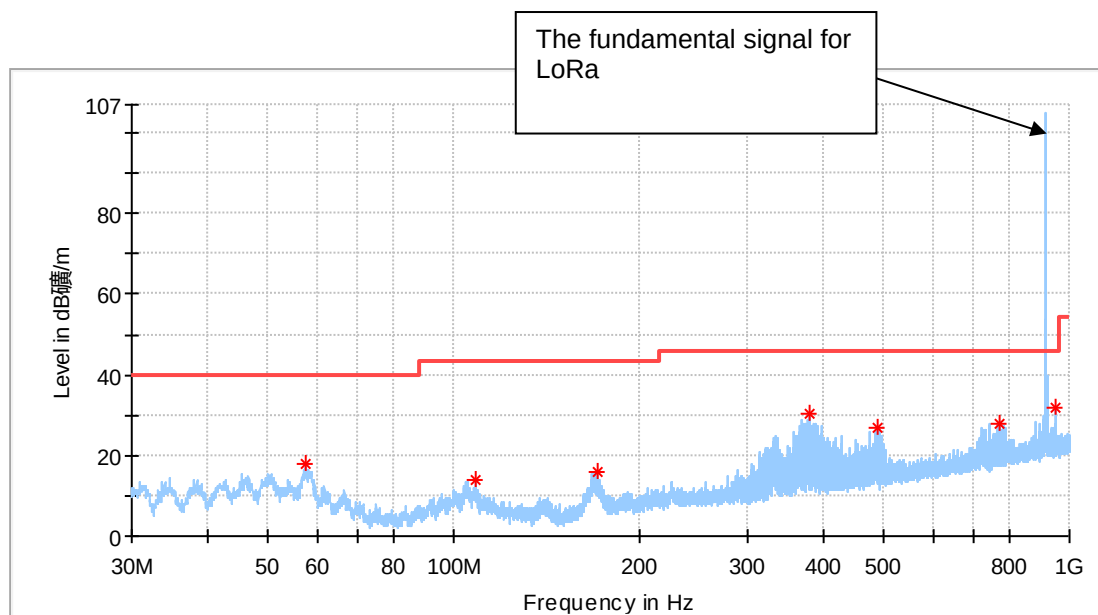
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.204615	29.00	40.00	11.00	100.0	V	80.0	-18.9
98.459615	18.84	43.50	24.66	100.0	V	106.0	-19.3
169.045769	21.67	43.50	21.83	100.0	V	261.0	-21.4
216.277308	21.34	46.00	24.66	100.0	V	269.0	-18.7
373.827692	34.79	46.00	11.21	100.0	V	193.0	-14.4
751.568077	36.66	46.00	9.34	100.0	V	155.0	-7.0
870.467692	35.28	46.00	10.72	100.0	V	155.0	-5.2

Final Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

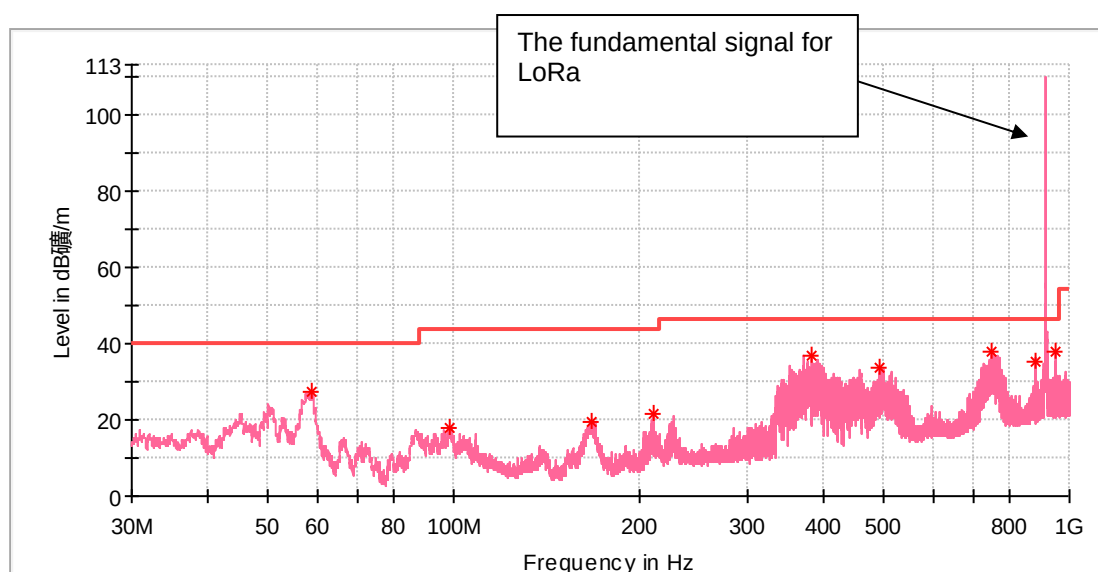
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.383846	17.77	40.00	22.23	100.0	H	57.0	-18.8
108.793846	13.99	43.50	29.51	100.0	H	28.0	-19.1
170.650000	16.09	43.50	27.41	100.0	H	102.0	-21.3
377.036154	30.40	46.00	15.60	100.0	H	55.0	-14.3
486.086539	27.10	46.00	18.90	100.0	H	252.0	-12.0
770.856154	28.07	46.00	17.93	100.0	H	73.0	-6.7
947.209615	31.83	46.00	14.17	100.0	H	73.0	-4.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

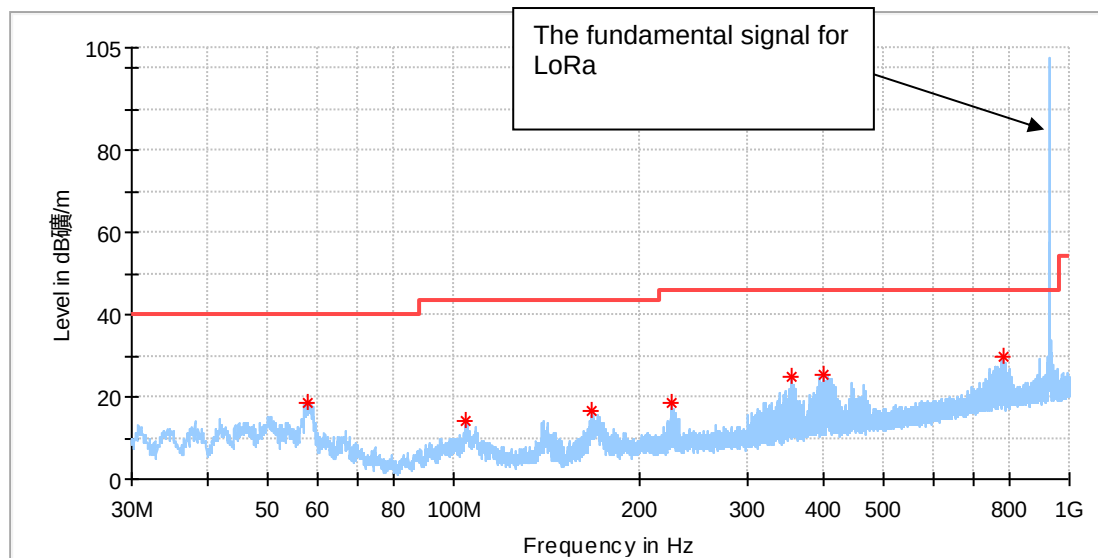
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.689615	27.59	40.00	12.41	100.0	V	122.0	-19.0
98.683462	17.65	43.50	25.85	100.0	V	60.0	-19.3
167.516154	19.66	43.50	23.84	100.0	V	60.0	-21.4
210.867692	21.41	43.50	22.09	100.0	V	270.0	-18.9
380.020769	36.79	46.00	9.21	100.0	V	17.0	-14.2
490.750000	33.74	46.00	12.26	100.0	V	17.0	-12.0
745.001923	38.06	46.00	7.94	100.0	V	204.0	-7.1
883.376154	35.33	46.00	10.67	100.0	V	175.0	-5.0
947.135000	38.05	46.00	7.95	100.0	V	175.0	-4.3

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

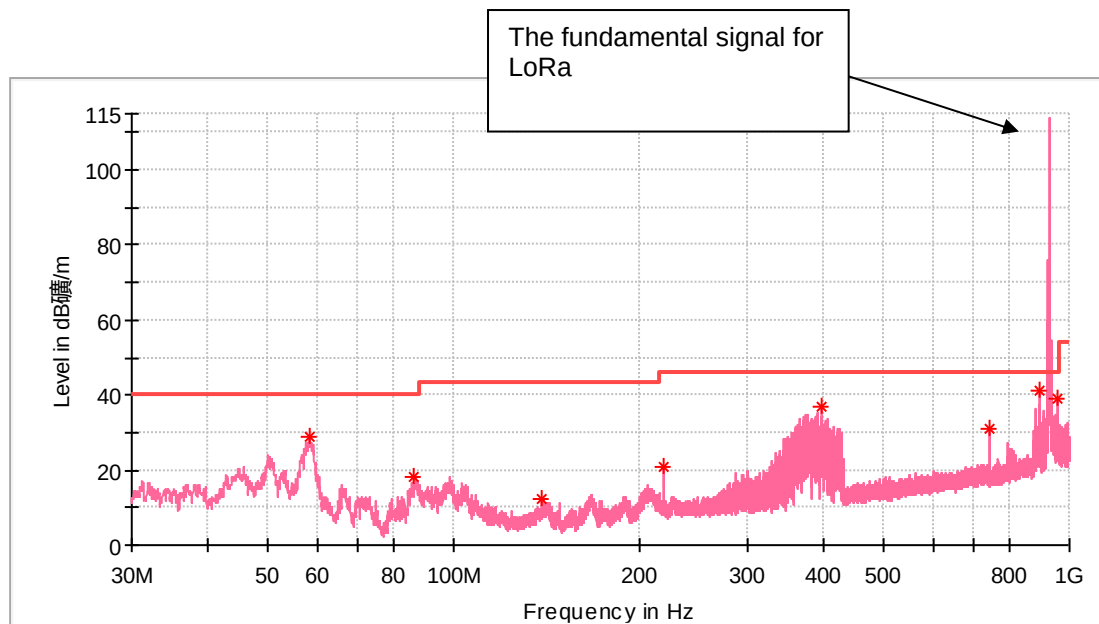
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.055385	18.65	40.00	21.35	100.0	H	285.0	-18.9
104.690000	14.35	43.50	29.15	100.0	H	317.0	-18.9
168.075769	16.44	43.50	27.06	100.0	H	259.0	-21.4
226.275769	18.53	46.00	27.47	100.0	H	35.0	-18.3
353.196539	24.78	46.00	21.22	100.0	H	223.0	-14.8
398.040385	25.60	46.00	20.40	100.0	H	223.0	-13.8
783.354231	29.81	46.00	16.19	100.0	H	110.0	-6.5

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.503077	28.93	40.00	11.07	100.0	V	26.0	-18.9
86.371923	18.40	40.00	21.60	100.0	V	357.0	-22.1
139.087692	12.48	43.50	31.02	100.0	V	179.0	-22.3
218.590385	20.71	46.00	25.29	100.0	V	273.0	-18.7
396.995769	36.65	46.00	9.35	100.0	V	273.0	-13.9
742.502308	30.85	46.00	15.15	100.0	V	328.0	-7.2
895.613077	41.23	46.00	4.77	100.0	V	328.0	-4.8
959.409231	39.19	46.00	6.81	100.0	V	328.0	-4.1

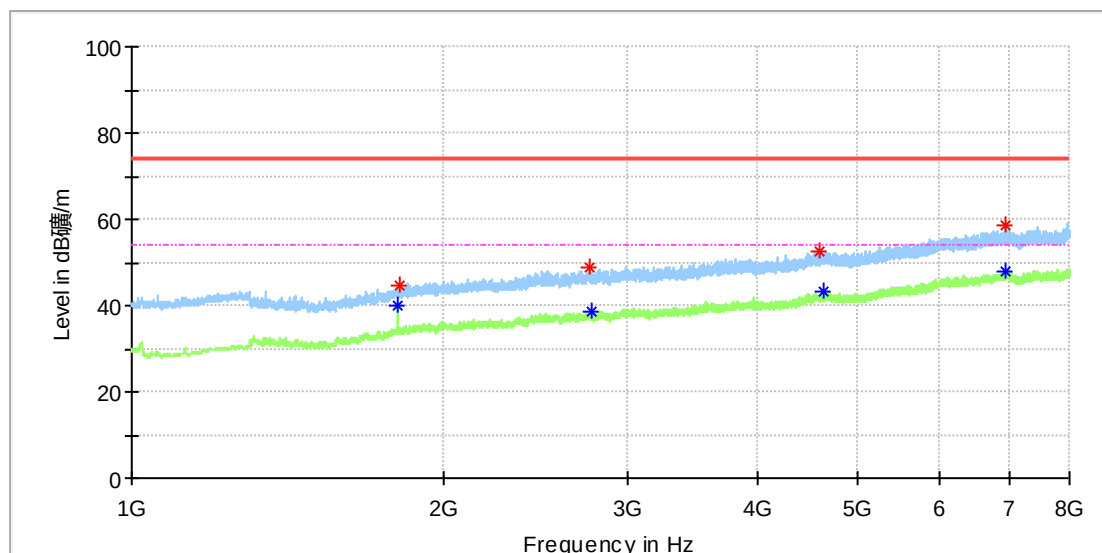
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 10GHz

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

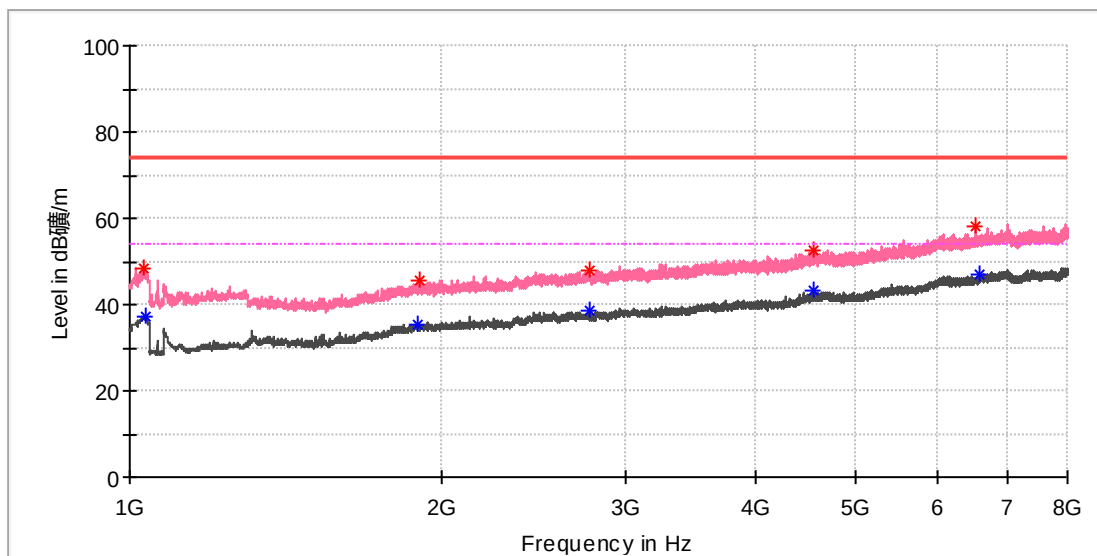
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1804.733333	---	40.05	54.00	13.95	150.0	H	257.0	6.3
1814.225000	44.50	---	74.00	29.50	150.0	H	247.0	6.3
2757.250000	48.65	---	74.00	25.35	150.0	H	350.0	9.4
2767.300000	---	38.54	54.00	15.46	150.0	H	30.0	9.4
4589.141667	52.68	---	74.00	21.32	150.0	H	171.0	13.5
4638.833333	---	43.06	54.00	10.94	150.0	H	232.0	13.5
6955.358333	---	48.11	54.00	5.89	150.0	H	16.0	18.9
6956.475000	58.62	---	74.00	15.38	150.0	H	63.0	18.9

Final Result

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

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

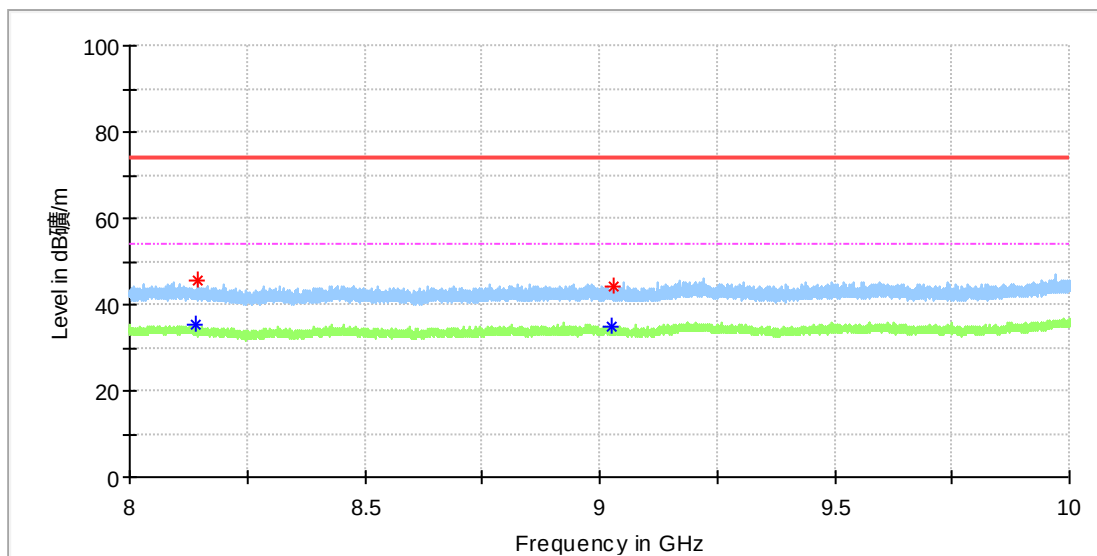
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1032.500000	48.28	---	74.00	25.72	150.0	V	304.0	0.4
1034.000000	---	37.34	54.00	16.66	150.0	V	304.0	0.4
1897.416667	---	35.35	54.00	18.65	150.0	V	95.0	7.1
1901.325000	45.41	---	74.00	28.59	150.0	V	318.0	7.1
2768.416667	---	38.82	54.00	15.18	150.0	V	307.0	9.4
2772.325000	48.12	---	74.00	25.88	150.0	V	29.0	9.4
4547.266667	---	43.20	54.00	10.80	150.0	V	126.0	13.4
4559.550000	52.63	---	74.00	21.37	150.0	V	161.0	13.5
6537.166667	57.94	---	74.00	16.06	150.0	V	282.0	17.8
6594.675000	---	47.20	54.00	6.80	150.0	V	135.0	17.9

Final Result

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

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

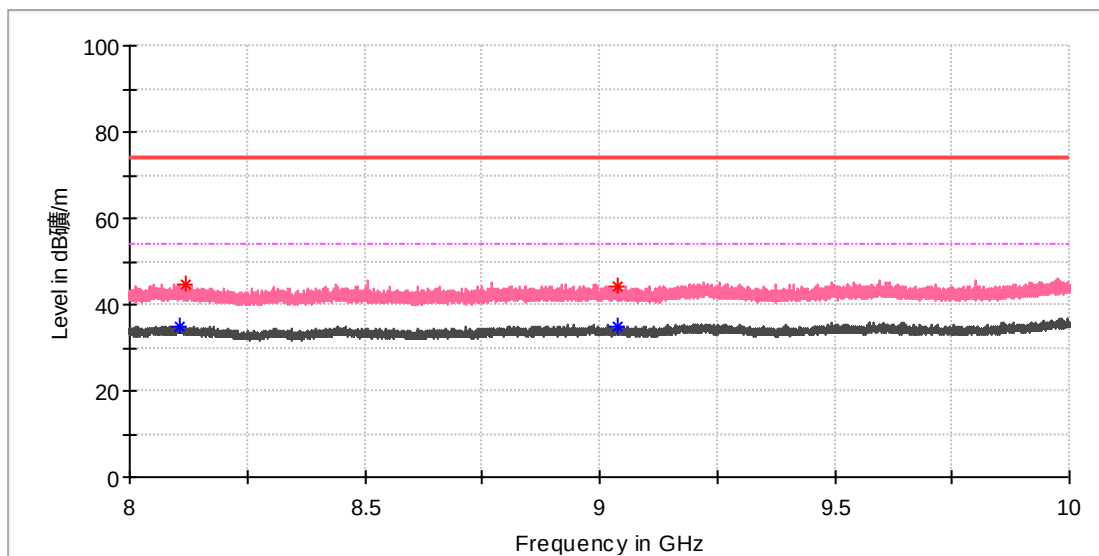
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8138.400000	---	35.27	54.00	18.73	150.0	H	108.0	9.0
8142.700000	45.79	---	74.00	28.21	150.0	H	241.0	9.0
9025.400000	---	35.08	54.00	18.92	150.0	H	199.0	9.5
9031.100000	44.40	---	74.00	29.60	150.0	H	266.0	9.6

Final Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 902.5MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

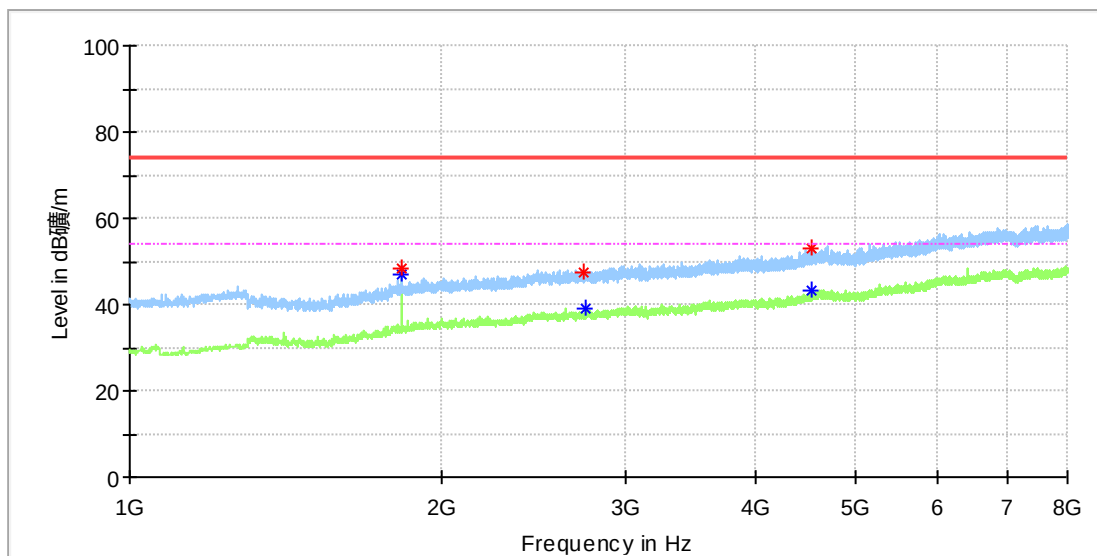
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8105.100000	---	34.96	54.00	19.04	150.0	V	233.0	8.9
8119.700000	44.80	---	74.00	29.20	150.0	V	0.0	8.9
9037.200000	44.26	---	74.00	29.74	150.0	V	186.0	9.6
9039.400000	---	34.79	54.00	19.21	150.0	V	228.0	9.6

Final Result

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

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

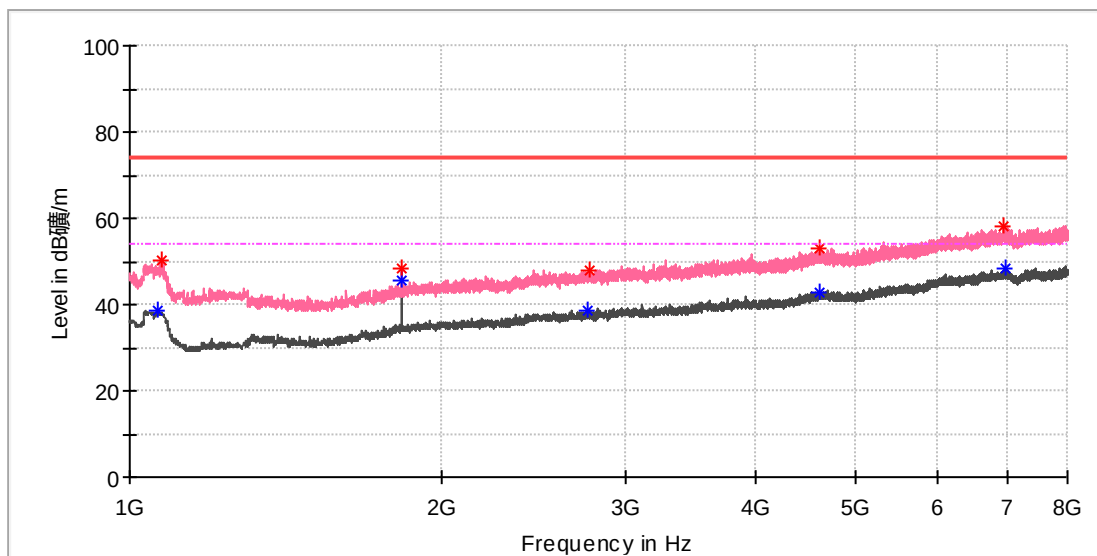
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1830.416667	---	46.80	54.00	7.20	150.0	H	9.0	6.4
1830.416667	48.53	---	74.00	25.47	150.0	H	9.0	6.4
2738.825000	47.44	---	74.00	26.56	150.0	H	266.0	9.3
2752.783333	---	39.02	54.00	14.98	150.0	H	338.0	9.4
4537.775000	53.13	---	74.00	20.87	150.0	H	306.0	13.3
4540.008333	---	43.44	54.00	10.56	150.0	H	155.0	13.3

Final_Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

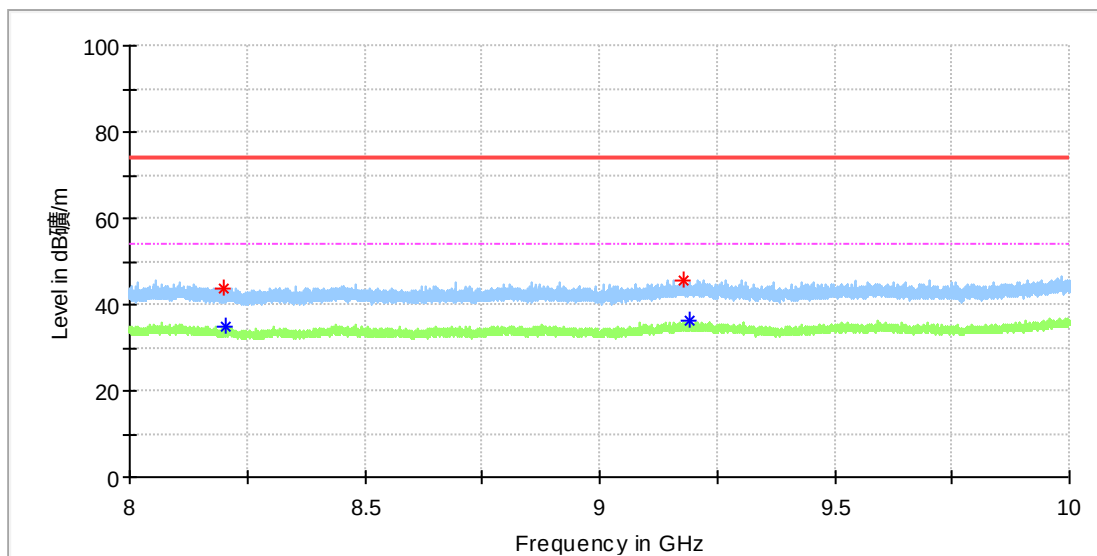
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1064.000000	---	38.37	54.00	15.63	150.0	V	303.0	0.5
1072.000000	50.09	---	74.00	23.91	150.0	V	322.0	0.5
1830.416667	48.26	---	74.00	25.74	150.0	V	226.0	6.4
1830.416667	---	45.64	54.00	8.36	150.0	V	226.0	6.4
2756.691667	---	38.82	54.00	15.18	150.0	V	114.0	9.4
2768.416667	47.69	---	74.00	26.31	150.0	V	35.0	9.4
4614.266667	---	42.77	54.00	11.23	150.0	V	226.0	13.5
4622.641667	52.80	---	74.00	21.20	150.0	V	54.0	13.5
6930.233333	58.25	---	74.00	15.75	150.0	V	49.0	18.9
6973.783333	---	48.16	54.00	5.84	150.0	V	140.0	19.0

Final Result

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

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

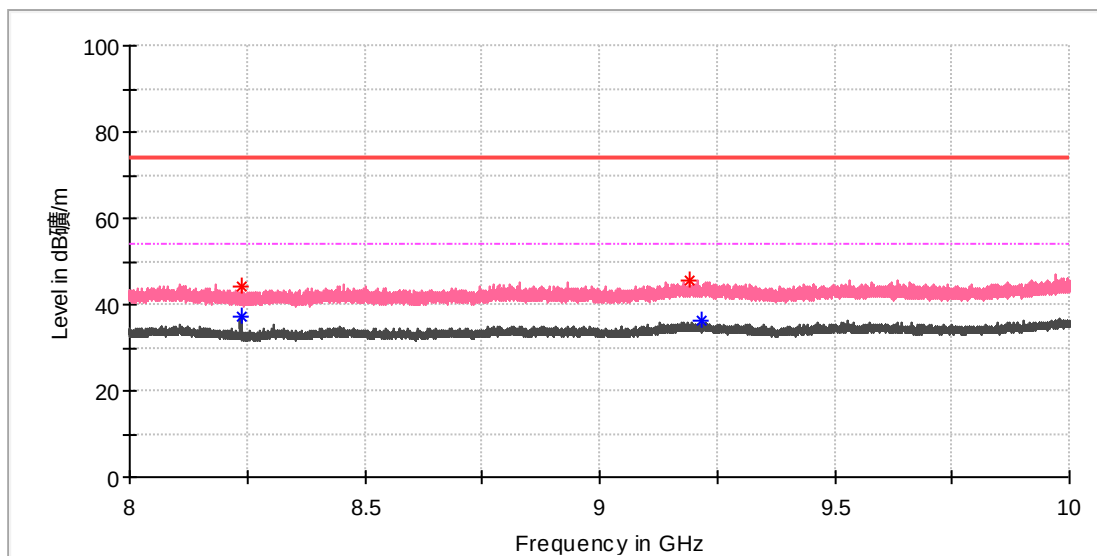
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8199.900000	43.91	---	74.00	30.09	150.0	H	322.0	9.0
8203.300000	---	34.80	54.00	19.20	150.0	H	103.0	9.0
9178.800000	45.58	---	74.00	28.42	150.0	H	227.0	10.5
9191.300000	---	36.08	54.00	17.92	150.0	H	144.0	10.6

Final Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 915.25MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

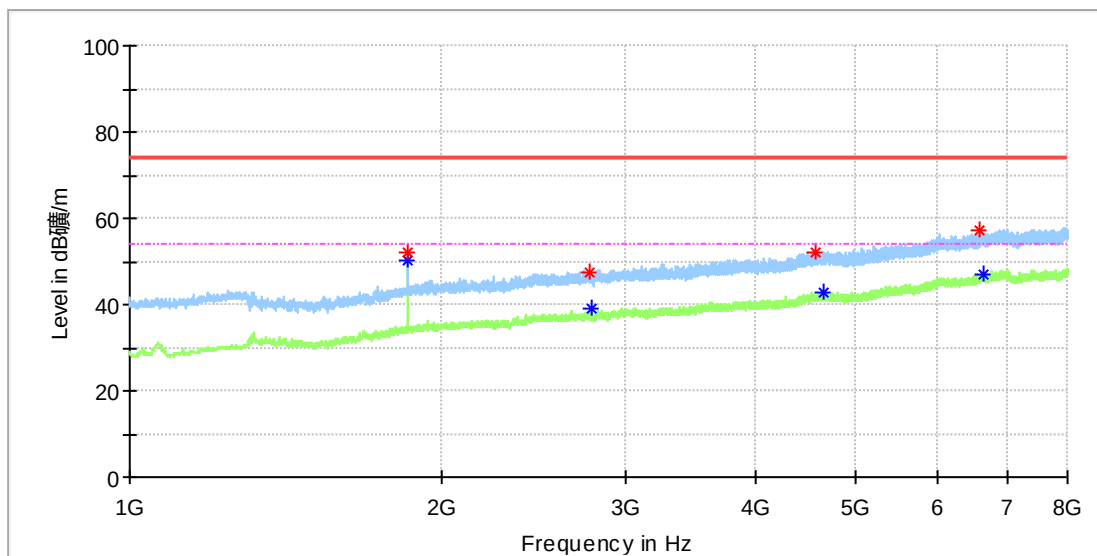
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8236.600000	---	37.23	54.00	16.77	150.0	V	160.0	8.8
8236.700000	44.39	---	74.00	29.61	150.0	V	160.0	8.8
9191.100000	45.63	---	74.00	28.37	150.0	V	142.0	10.6
9218.700000	---	36.19	54.00	17.81	150.0	V	90.0	10.7

Final Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

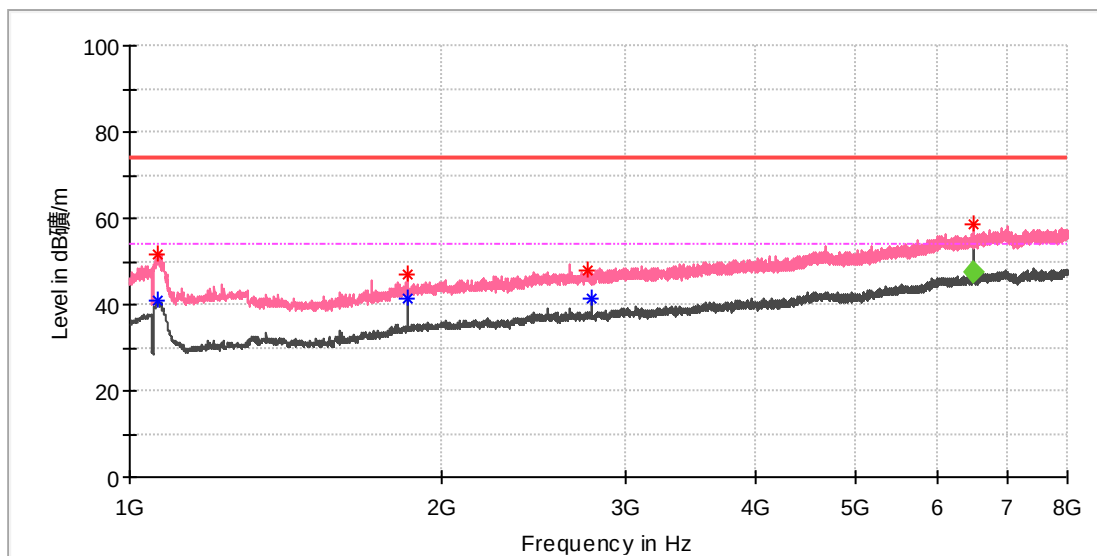
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1854.425000	52.00	---	74.00	22.00	150.0	H	83.0	6.5
1854.425000	---	50.35	54.00	3.65	150.0	H	83.0	6.5
2775.675000	47.46	---	74.00	26.54	150.0	H	226.0	9.4
2782.375000	---	39.01	54.00	14.99	150.0	H	83.0	9.4
4584.116667	52.15	---	74.00	21.85	150.0	H	74.0	13.5
4665.633333	---	42.64	54.00	11.36	150.0	H	131.0	13.5
6571.783333	57.43	---	74.00	16.57	150.0	H	192.0	17.9
6632.641667	---	46.98	54.00	7.02	150.0	H	227.0	18.0

Final Result

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

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

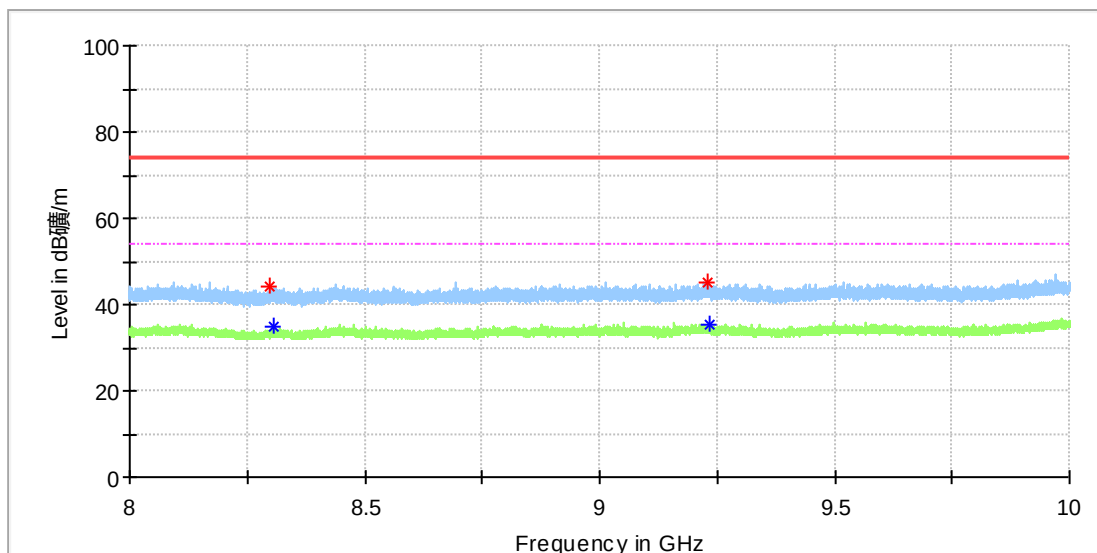
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1064.500000	---	40.86	54.00	13.14	150.0	V	127.0	0.5
1064.500000	51.44	---	74.00	22.56	150.0	V	127.0	0.5
1854.425000	---	41.56	54.00	12.44	150.0	V	15.0	6.5
1854.425000	46.81	---	74.00	27.19	150.0	V	15.0	6.5
2761.158333	48.03	---	74.00	25.97	150.0	V	337.0	9.4
2782.375000	---	41.62	54.00	12.38	150.0	V	118.0	9.4
6491.941667	58.56	---	74.00	15.44	150.0	V	258.0	17.7

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6487.955000	---	47.60	54.00	6.40	150.0	V	258.0	17.7

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

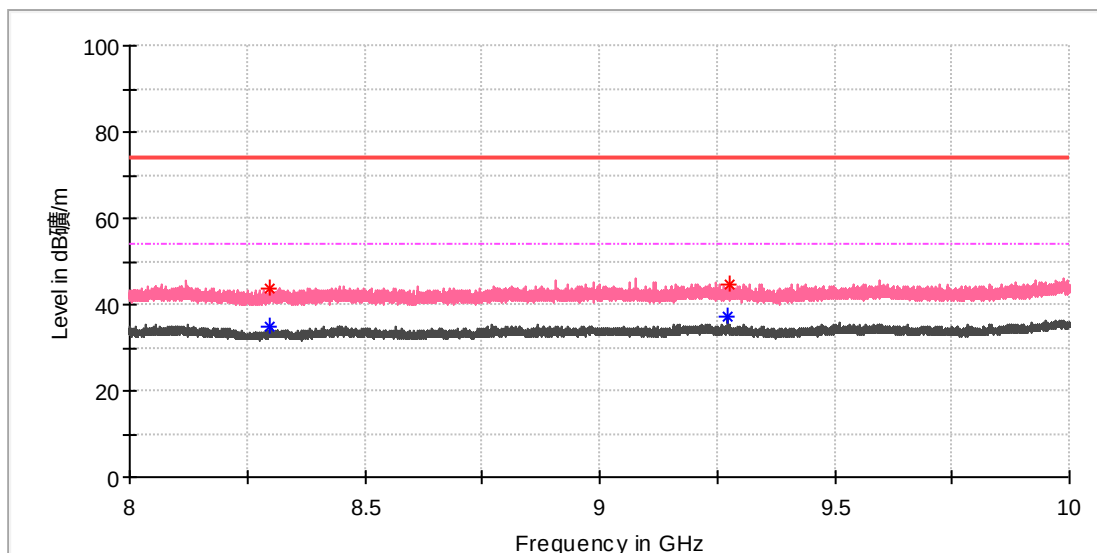
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8299.700000	44.21	---	74.00	29.79	150.0	H	89.0	8.7
8306.000000	---	34.92	54.00	19.08	150.0	H	245.0	8.8
9229.300000	44.98	---	74.00	29.02	150.0	H	18.0	10.7
9234.400000	---	35.53	54.00	18.47	150.0	H	41.0	10.7

Final Result

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

EUT Information

EUT Name:	RTK Reference Station
Model:	LYMOW ONE
Test Mode:	LoRa 927.49MHz
Order No/Sample No:	168557586/A004000487-001
Test Voltage::	Adaptor
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8296.600000	43.58	---	74.00	30.42	150.0	V	187.0	8.7
8299.400000	---	34.87	54.00	19.13	150.0	V	255.0	8.7
9273.900000	---	37.40	54.00	16.60	150.0	V	39.0	10.4
9274.600000	44.53	---	74.00	29.47	150.0	V	39.0	10.4

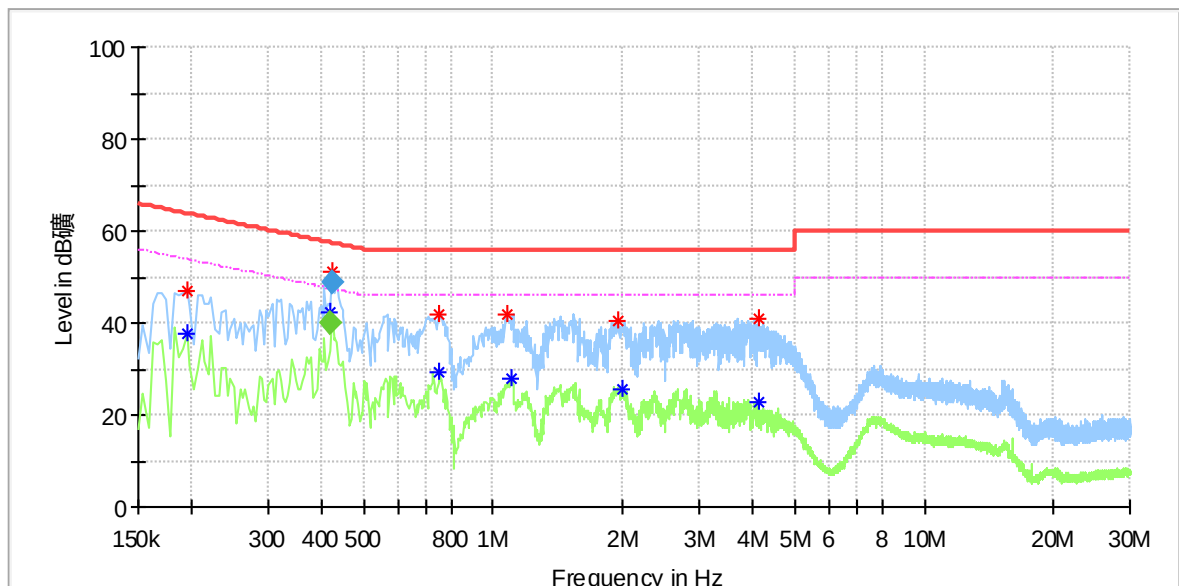
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.2: Test Results of AC Conducted Emissions

EUT Information

EUT Name:	RTK Reference Station
Order Number:	168557586(P01794688)
Model:	LYMOW ONE
Test Mode:	Working
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Junhua Sun/ Murphy Chen
Tem./Hum./Pressure:	24.9°C/50.4%/101kPa
Remark:	SR2



Critical_Freqs

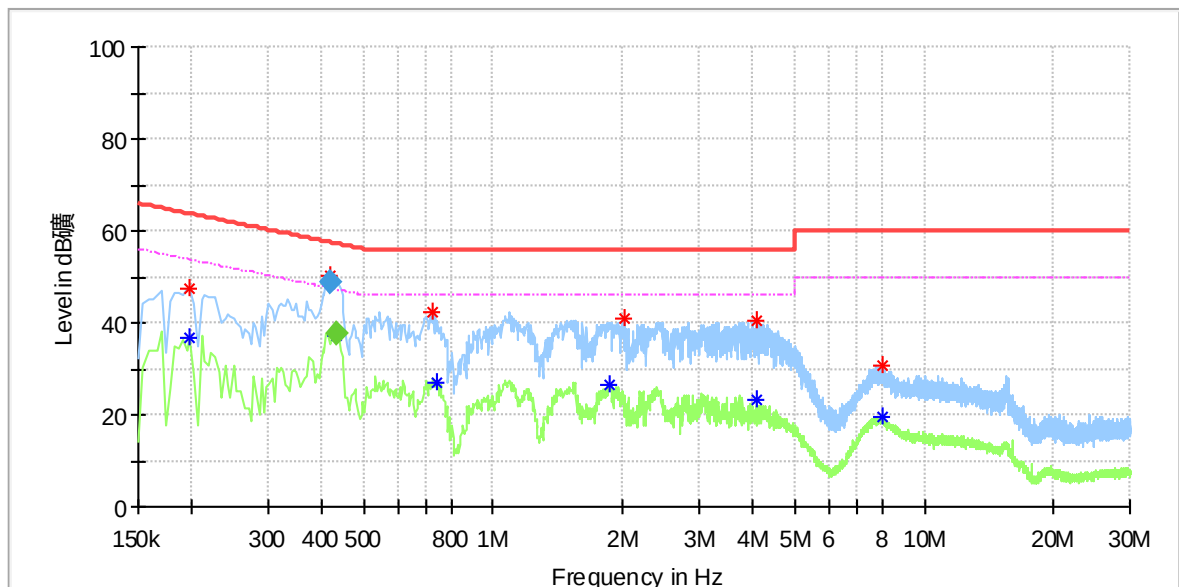
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.194	---	37.72	53.86	16.14	L1	10.2
0.194	47.06	---	63.86	16.81	L1	10.2
0.421	---	42.34	47.41	5.06	L1	10.2
0.425	51.23	---	57.41	6.18	L1	10.2
0.746	42.09	---	56.00	13.91	L1	10.3
0.750	---	29.51	46.00	16.49	L1	10.3
1.078	41.89	---	56.00	14.11	L1	10.3
1.106	---	27.76	46.00	18.24	L1	10.3
1.954	40.54	---	56.00	15.46	L1	10.3
1.990	---	25.69	46.00	20.31	L1	10.3
4.114	40.86	---	56.00	15.14	L1	10.3
4.126	---	22.99	46.00	23.01	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.421	---	40.01	47.44	7.43	1000.0	9.000	L1	10.2
0.425	48.61	---	57.36	8.75	1000.0	9.000	L1	10.2

EUT Information

EUT Name: RTK Reference Station
Order Number: 168557586(P01794688)
Model: LYMOW ONE
Test Mode: Working
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.9°C/50.4%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.198	---	36.75	53.69	16.94	N	10.2
0.198	47.47	---	63.69	16.22	N	10.2
0.421	50.29	---	57.33	7.04	N	10.2
0.433	---	37.44	47.18	9.74	N	10.2
0.726	42.40	---	56.00	13.60	N	10.3
0.738	---	27.15	46.00	18.85	N	10.3
1.870	---	26.62	46.00	19.38	N	10.3
2.014	41.09	---	56.00	14.91	N	10.3
4.090	---	23.15	46.00	22.85	N	10.4
4.090	40.53	---	56.00	15.47	N	10.4
7.990	30.60	---	60.00	29.40	N	10.5
7.994	---	19.44	50.00	30.56	N	10.5

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.421	48.71	---	57.44	8.73	1000.0	9.000	N	10.2
0.433	---	37.48	47.21	9.72	1000.0	9.000	N	10.2