Prüfbericht-Nr.: *Test report no.:*	**CN25FRLN 001**	**Auftrags-Nr.:** *Order no.:*	**326061150**	**Seite 1 von 30** *Page 1 of 30*
Kunden-Referenz-Nr.: *Client reference no.:*	**2555372**	**Auftragsdatum:** *Order date:*	**2025-04-11**	
Auftraggeber: *Client:*	**Watchgas B.V.** Klaverbaan 121 2908 KD, Capelle aan den IJssel, NL			
Prüfgegenstand: *Test item:*	Watchgas Lora module			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	WGLora			
Auftrags-Inhalt: *Order content:*	Complete test			
Prüfgrundlage: *Test specification:*	FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013			
Wareneingangsdatum: *Date of sample receipt:*	2025-02-19	Refer to related report		
Prüfmuster-Nr.: *Test sample no:*	A003927931-001			
Prüfzeitraum: *Testing period:*	Refer to test report			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: *tested by:* x Tianlin Li
Signed by: Tianlin Li

Datum: *Date:* 2025-05-28

Stellung / *Position:* Sachverständige(r)/Expert

genehmigt von: *authorized by:* x Yanli Fan
Signed by: Yanli Fan

Ausstellungsdatum: *Issue date:* 2025-05-28

Stellung / *Position:* Sachverständige(r)/Expert

Sonstiges / *Other:* FCC ID: 2BHPW-WGLORA

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.
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.

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. *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.*
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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 6DB & 99% BANDWIDTH
RESULT: Pass

5.1.3 OUTPUT POWER
RESULT: Pass

5.1.4 POWER SPECTRAL DENSITY
RESULT: Pass

5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS
RESULT: Pass

5.2.1 CONDUCTED EMISSION
RESULT: Pass

5.3.1 RADIATED BAND-EDGE
RESULT: Pass

5.3.2 RADIATED SPURIOUS EMISSION
RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

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

Appendix A: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.
Shanghai TUV Rheinland Building No. 177, 178 Lane 777, West Guangzhong Rd, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equip.	Description	Model	Manufacturer	Due Date DD.MM.YYYY
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	24.07.2025
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	15.07.2025
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	24.03.2026
EMC-C-121	Thermohygrometer	608-H1	testo	25.06.2025
EMC-C-066	EMI test receiver	ESCI	Rohde & Schwarz	17.10.2025
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	24.03.2026
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	03.12.2026
software				
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	Rohde & Schwarz	NA

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Conducted Emission	150kHz - 30MHz	±3.39dB
Radiated Emission	9kHz - 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Watchgas Lora module which contains LoRa function.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	Watchgas Lora module
Model No.:	WGLora
Operation Voltage:	DC 3.3V
Technical Specification of Bluetooth LE	
Frequency Range:	902.60 – 927.40 MHz
Modulation Type:	LoRa
Antenna Type:	External antenna
Antenna Gain:	-0.8 dBi (contain cable loss)
Channel Number	249

Note:

1. RF tests were done using a module with a development board.
2. Cable loss between antenna and module is -0.5dbi which declared by client.

Table 4: Operation Channel List

RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]
00	**902.6**	63	908.9	126	915.2	189	921.5
01	902.7	64	909.0	127	915.3	190	921.6
02	902.8	65	909.1	128	915.4	191	921.7
03	902.9	66	909.2	129	915.5	192	921.8
04	903.0	67	909.3	130	915.6	193	921.9
05	903.1	68	909.4	131	915.7	194	922.0
06	903.2	69	909.5	132	915.8	195	922.1
07	903.3	70	909.6	133	915.9	196	922.2
08	903.4	71	909.7	134	916.0	197	922.3
09	903.5	72	909.8	135	916.1	198	922.4
10	903.6	73	909.9	136	916.2	199	922.5
11	903.7	74	910.0	137	916.3	200	922.6
12	903.8	75	910.1	138	916.4	201	922.7
13	903.9	76	910.2	139	916.5	202	922.8
14	904.0	77	910.3	140	916.6	203	922.9
15	904.1	78	910.4	141	916.7	204	923.0
16	904.2	79	910.5	142	916.8	205	923.1
17	904.3	80	910.6	143	916.9	206	923.2
18	904.4	81	910.7	144	917.0	207	923.3
19	904.5	82	910.8	145	917.1	208	923.4
20	904.6	83	910.9	146	917.2	209	923.5
21	904.7	84	911.0	147	917.3	210	923.6
22	904.8	85	911.1	148	917.4	211	923.7
23	904.9	86	911.2	149	917.5	212	923.8
24	905.0	87	911.3	150	917.6	213	923.9
25	905.1	88	911.4	151	917.7	214	924.0
26	905.2	89	911.5	152	917.8	215	924.1
27	905.3	90	911.6	153	917.9	216	924.2
28	905.4	91	911.7	154	918.0	217	924.3
29	905.5	92	911.8	155	918.1	218	924.4
30	905.6	93	911.9	156	918.2	219	924.5
31	905.7	94	912.0	157	918.3	220	924.6
32	905.8	95	912.1	158	918.4	221	924.7
33	905.9	96	912.2	159	918.5	222	924.8
34	906.0	97	912.3	160	918.6	223	924.9
35	906.1	98	912.4	161	918.7	224	925.0
36	906.2	99	912.5	162	918.8	225	925.1
37	906.3	100	912.6	163	918.9	226	925.2
38	906.4	101	912.7	164	919.0	227	925.3
39	906.5	102	912.8	165	919.1	228	925.4
40	906.6	103	912.9	166	919.2	229	925.5
41	906.7	104	913.0	167	919.3	230	925.6
42	906.8	105	913.1	168	919.4	231	925.7
43	906.9	106	913.2	169	919.5	232	925.8
44	907.0	107	913.3	170	919.6	233	925.9
45	907.1	108	913.4	171	919.7	234	926.0

46	907.2	109	913.5	172	919.8	235	926.1
47	907.3	110	913.6	173	919.9	236	926.2
48	907.4	111	913.7	174	920.0	237	926.3
49	907.5	112	913.8	175	920.1	238	926.4
50	907.6	113	913.9	176	920.2	239	926.5
51	907.7	114	914.0	177	920.3	240	926.6
52	907.8	115	914.1	178	920.4	241	926.7
53	907.9	116	914.2	179	920.5	242	926.8
54	908.0	117	914.3	180	920.6	243	926.9
55	908.1	118	914.4	181	920.7	244	927.0
56	908.2	119	914.5	182	920.8	245	927.1
57	908.3	120	914.6	183	920.9	246	927.2
58	908.4	121	914.7	184	921.0	247	927.3
59	908.5	122	914.8	185	921.1	**248**	**927.4**
60	908.6	123	914.9	186	921.2	\	\
61	908.7	**124**	**915.0**	187	921.3	\	\
62	908.8	125	915.1	188	921.4	\	\

Test frequencies are lowest channel: 902.6 MHz, middle channel: 915.0 MHz and highest channel:927.4 MHz.

3.3 Independent Operation Modes

The basic operation modes are:
A. On, LoRa transmitting mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power 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 C63.10: 2013.
Test Software used: sscom

Table 5: Power parameter value

Channel Frequency [MHz]	Power Parameter Value
902.6	1
915.0	1
927.4	1

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment

Equipment	Brand	Model Number	Serial number
Laptop	Lenovo	EMC-COMP-026	PF-49VKS3
Charger	UGREEN	CD137	/

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT: **Pass**

According to the manufacturer declared, the EUT has one external antenna, the directional gain of antenna is -0.3 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 7: Antenna Requirement

FCC 15.203 – Antenna Requirement 1		
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	Antenna type:	External Antenna
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2	
Requirement:	C
Results:	Only one external antenna can be used
Verdict:	Pass

5.1.2 6dB & 99% Bandwidth

RESULT: **Pass**

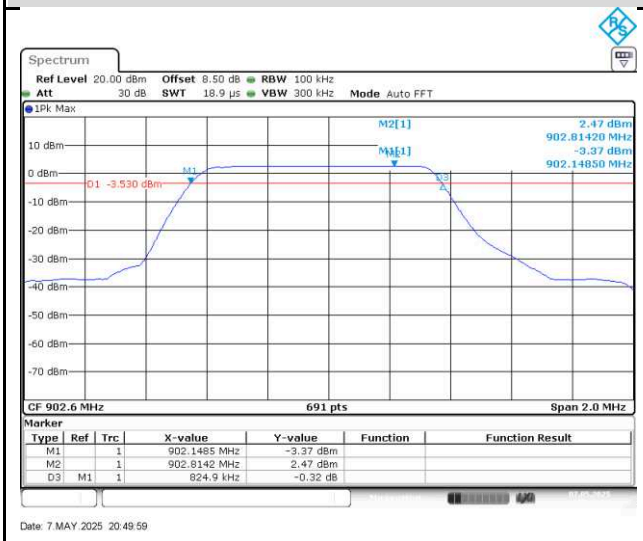
Date of testing	:	2025-05-07
Ambient temperature	:	22.4°C
Relative humidity	:	56.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(a)(2)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

Table 8: 6dB & 99% Bandwidth

Channel	Frequency [MHz]	6dB Bandwidth [dBm/MHz]	99% Bandwidth [dBm/MHz]	6dB Bandwidth Limit [MHz]
00	902.6	0.825	0.645	≥0.5
124	915.0	0.819	0.643	≥0.5
248	927.4	0.819	0.640	≥0.5

Figure 1: 6dB Bandwidth

902.6 MHz



915.0 MHz

927.4 MHz

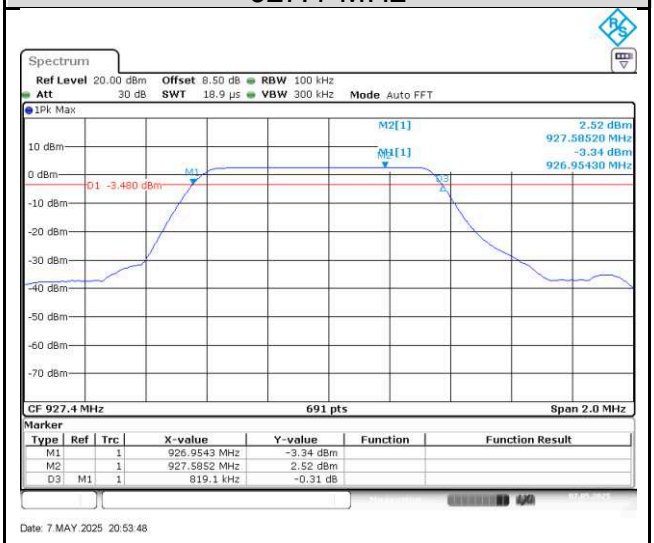
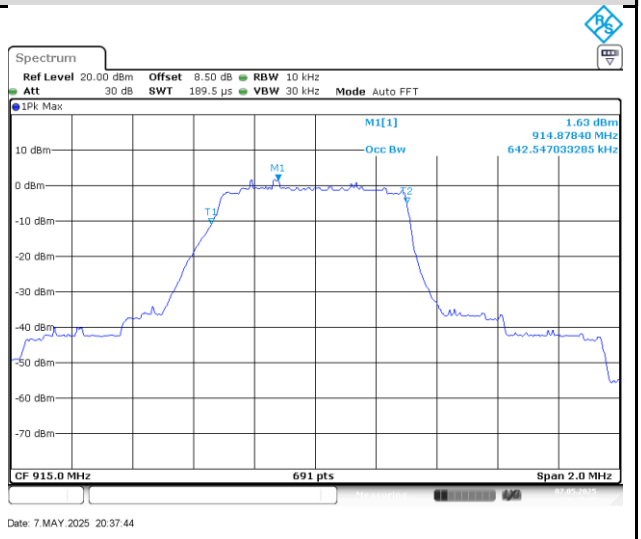


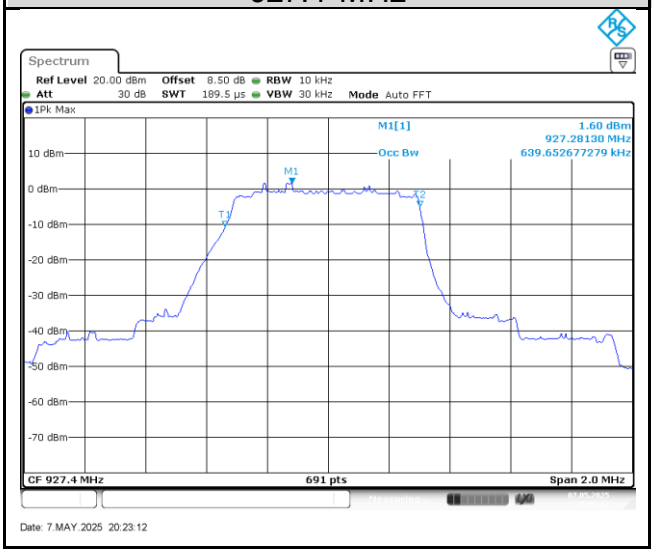
Figure 2: 99% Occupied Channel Bandwidth

902.6 MHz

915.0 MHz



927.4 MHz



5.1.3 Output Power

RESULT: **Pass**

Date of testing	:	2025-05-07
Ambient temperature	:	22.4°C
Relative humidity	:	56.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(b)(3)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

Table 9: Peak Output Power

Channel	Frequency [MHz]	Peak Conducted Output Power [dBm]	Limit [dBm]
00	902.6	2.59	≤30
124	915.0	2.65	≤30
248	927.4	2.63	≤30

Note:
The cable loss is taken into account in results.

5.1.4 Power Spectral Density

RESULT: **Pass**

Date of testing	:	2025-05-07
Ambient temperature	:	22.4°C
Relative humidity	:	56.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(e)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

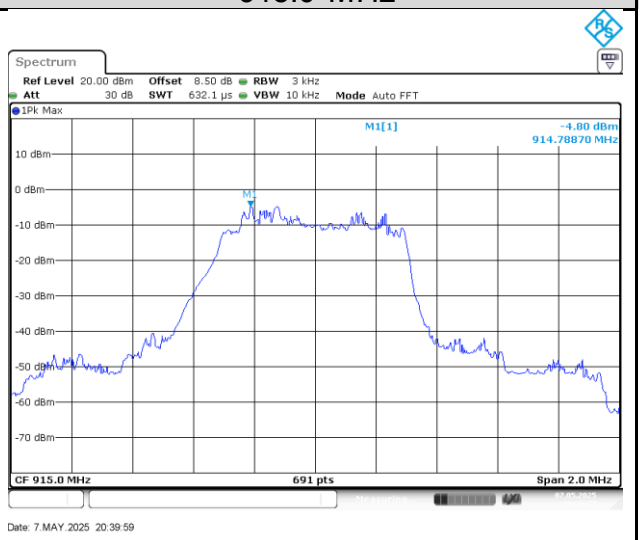
Table 10: Power Spectral Density

Channel	Frequency [MHz]	PK PSD [dBm/3KHz]	Limit [dBm/3KHz]
00	902.6	-4.88	≤8
124	915.0	-4.80	≤8
248	927.4	-4.82	≤8

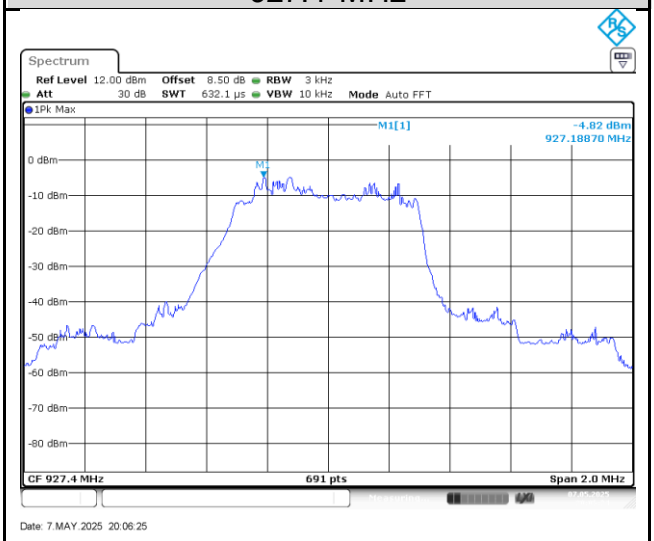
Figure 3: Power Spectral Density

902.6 MHz

915.0 MHz



927.4 MHz



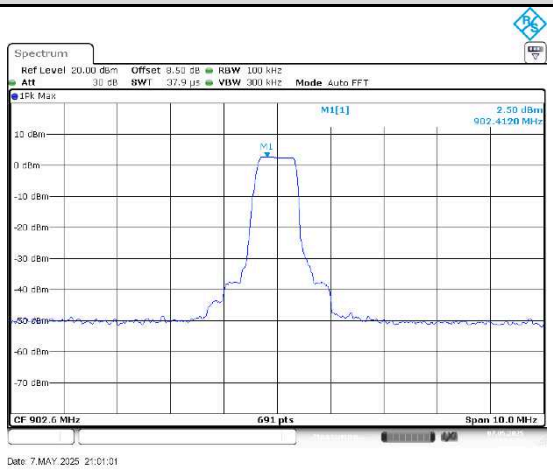
5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT: **Pass**

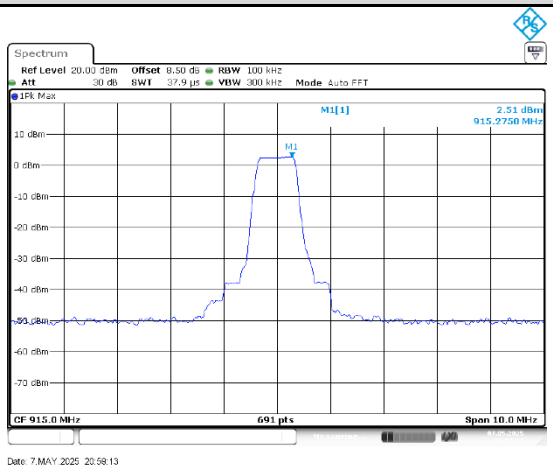
Date of testing	:	2025-05-07
Ambient temperature	:	22.4°C
Relative humidity	:	56.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

Figure 4: Reference level

902.6 MHz



915.0 MHz



927.4 MHz

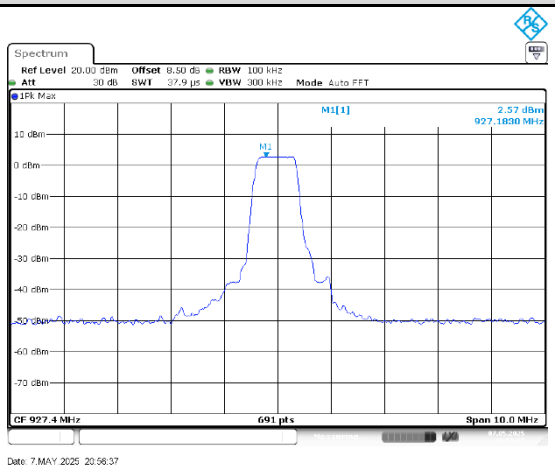
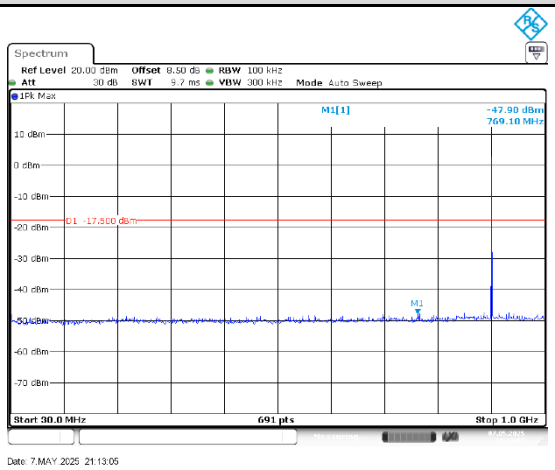
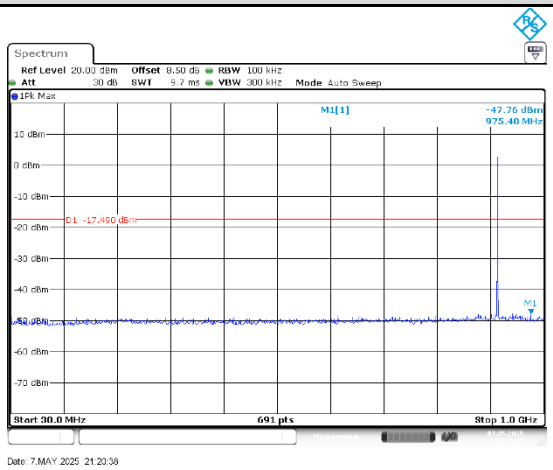


Figure 5: Conducted Spurious Emission(30M~1GHz)

902.6 MHz



915.0 MHz



927.4 MHz

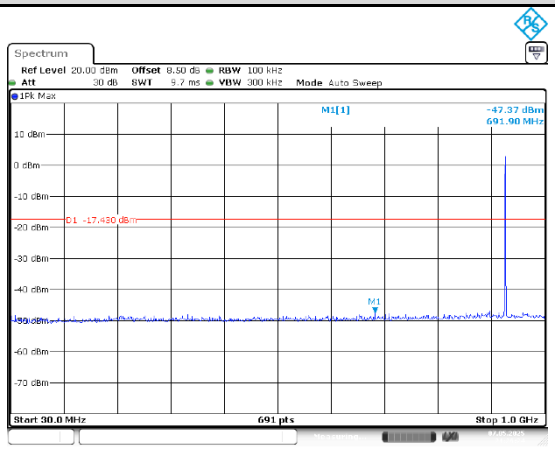
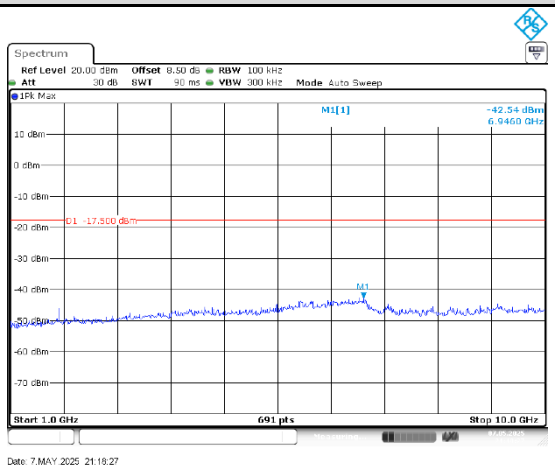
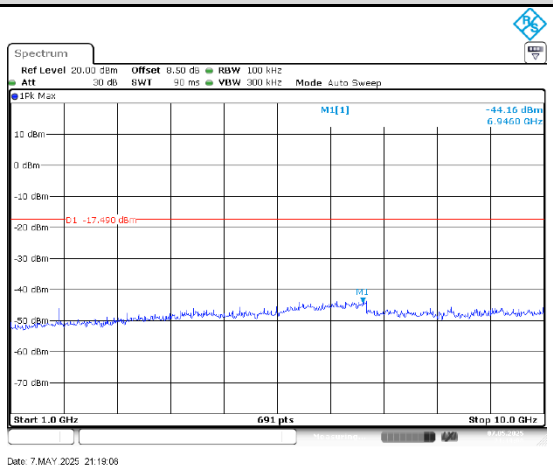


Figure 6: Conducted Spurious Emission(1G~10GHz)

902.6 MHz



915.0 MHz



927.4 MHz

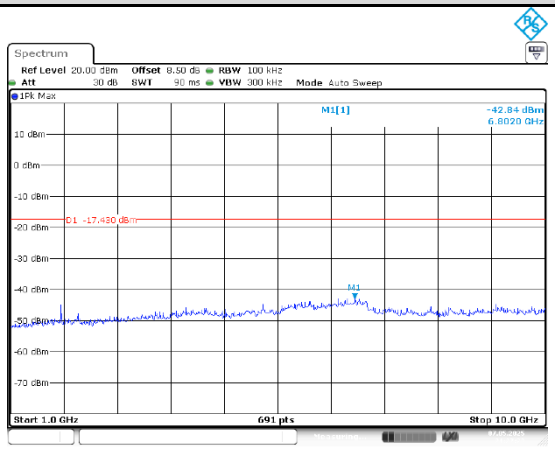
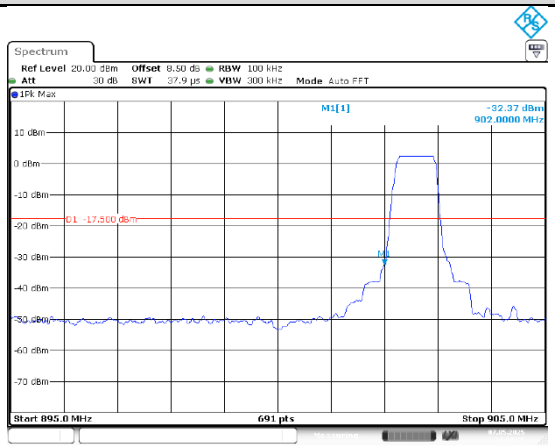
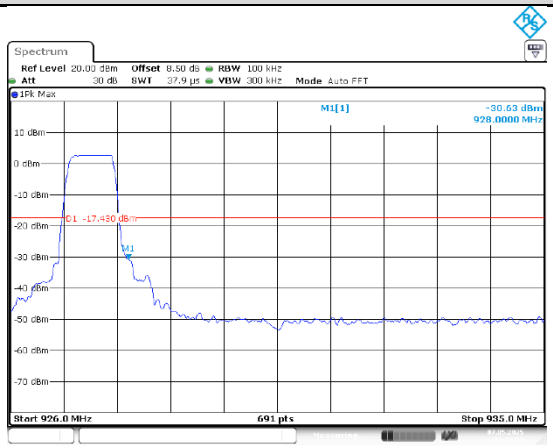


Figure 7: Conducted Band Edge

902.6 MHz



927.4 MHz



5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT: **NA**

Test requirement	:	FCC Part 15.207 (a)
Test procedure	:	KDB 558074 D01v05r02 ANSI C63.10: 2013

Note: The LoRa module is only powered by DC, so this test item is not applicable.

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT: **NA**

Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a)
Test procedure	:	ANSI C63.10: 2013

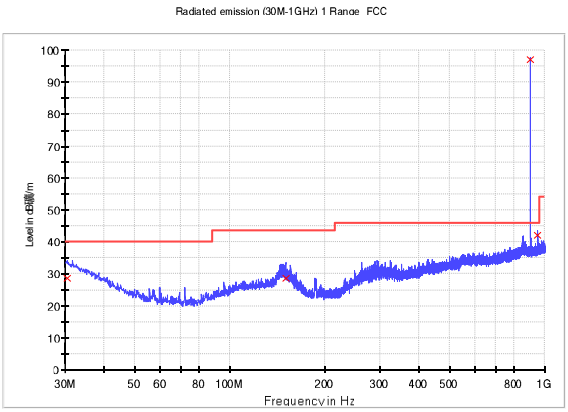
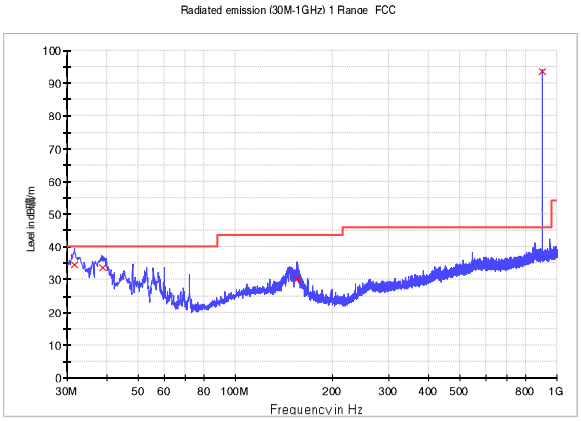
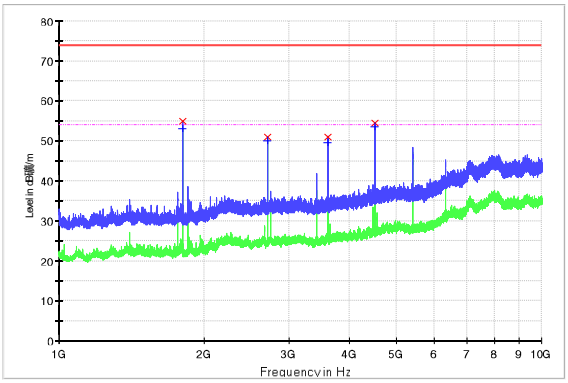
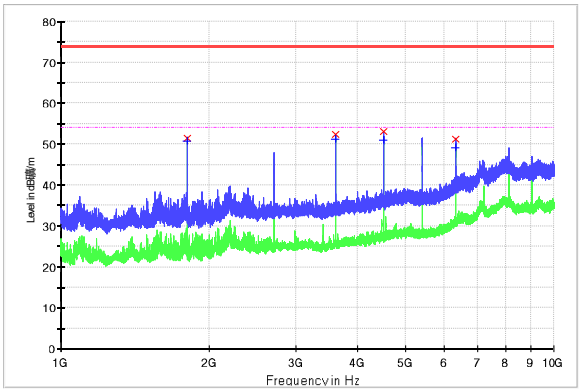
Note: No restriction band in the range ±2 channel bandwidths of the Band-edges of the specified emission band (608 MHz ~ 614 MHz and 960 MHz ~ 1240 MHz).

5.3.2 Radiated Spurious Emission

RESULT: **Pass**

Date of testing	:	2025-04-28
Ambient temperature	:	23.7°C
Relative humidity	:	57.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	A

Figure 8: Radiated Spurious Emission, 902.6MHz

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 10GHz H	**1GHz to 10GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.485000	28.7	H	24.4	11.3	40.0
150.280000	28.6	H	18.7	14.9	43.5
950.408750	42.2	H	29.0	3.8	46.0
31.576250	34.6	V	24.8	5.4	40.0
38.730000	33.5	V	20.7	6.5	40.0
155.978750	30.0	V	17.1	13.5	43.5

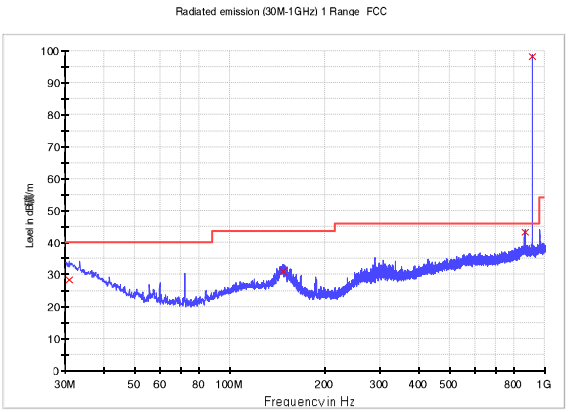
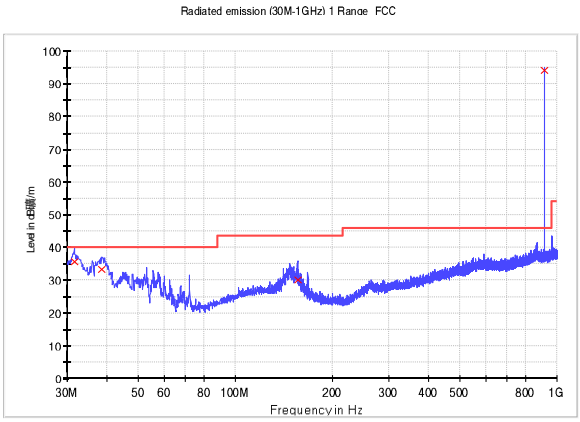
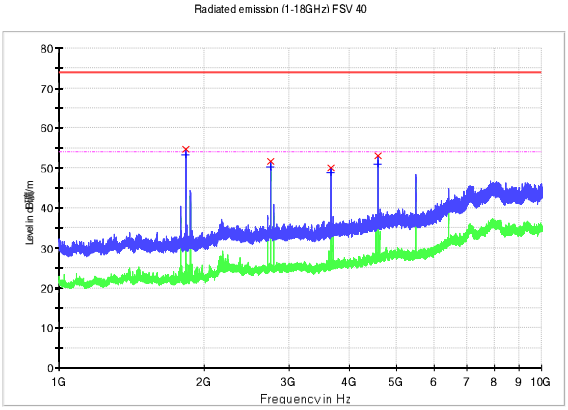
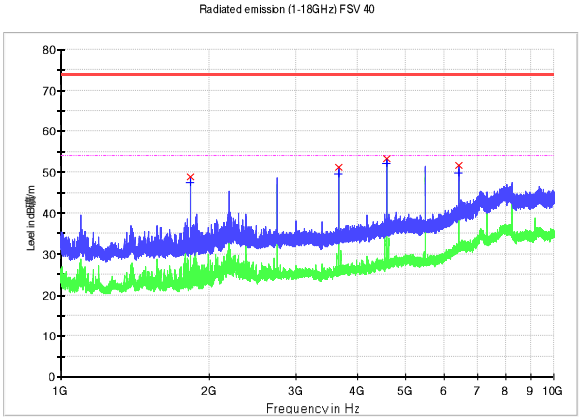
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1804.937500	54.9	H	-18.7	19.1	74.0
2706.906250	51.0	H	-15.4	23.0	74.0
3609.718750	50.9	H	-14.1	23.1	74.0
4510.562500	54.4	H	-12.5	19.6	74.0
1804.375000	51.5	V	-18.7	22.5	74.0
3609.437500	52.3	V	-14.1	21.7	74.0
4511.406250	53.0	V	-12.5	21.0	74.0
6316.187500	51.3	V	-8.9	22.7	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1804.937500	53.2	H	-18.7	0.8	54.0
2706.906250	50.1	H	-15.4	3.9	54.0
3609.718750	49.6	H	-14.1	4.4	54.0
4510.562500	53.6	H	-12.5	0.4	54.0
1804.375000	50.7	V	-18.7	3.3	54.0
3609.437500	51.3	V	-14.1	2.7	54.0
4511.406250	51.1	V	-12.5	2.9	54.0
6316.187500	49.1	V	-8.9	4.9	54.0

Figure 9: Radiated Spurious Emission, 915MHz

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 10GHz H	**1GHz to 10GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.848750	28.5	H	25.2	11.5	40.0
147.006250	30.9	H	17.7	12.6	43.5
865.897500	43.2	H	28.8	2.8	46.0
31.576250	35.6	V	24.8	4.4	40.0
38.366250	33.3	V	20.9	6.7	40.0
156.100000	30.2	V	17.1	13.3	43.5

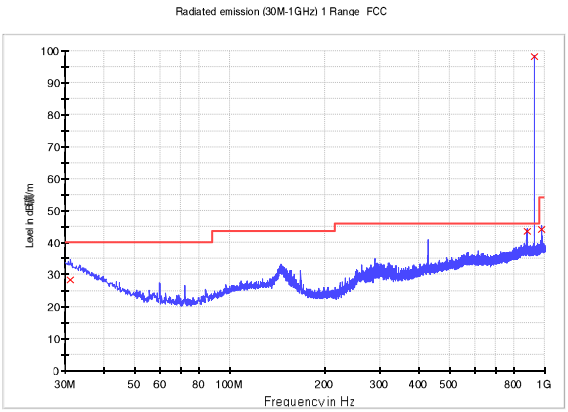
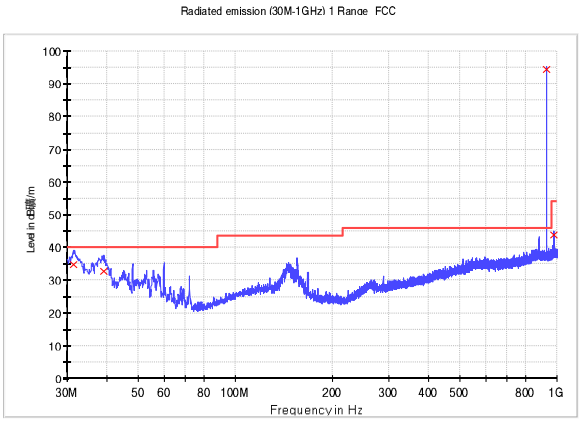
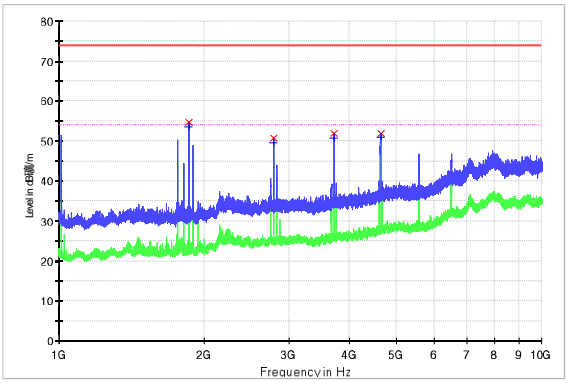
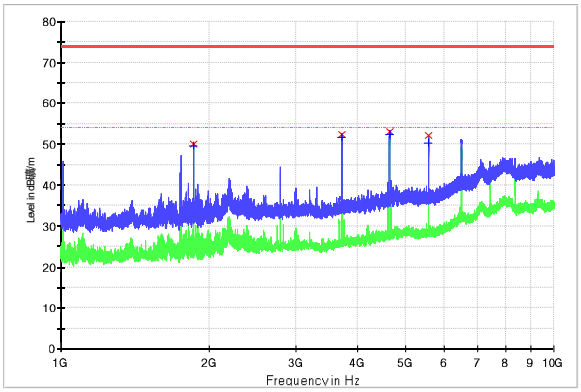
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1829.125000	54.8	H	-18.6	19.2	74.0
2745.437500	51.6	H	-15.3	22.4	74.0
3660.906250	50.1	H	-14.0	23.9	74.0
4574.968750	53.1	H	-12.3	20.9	74.0
1829.687500	48.8	V	-18.6	25.2	74.0
3660.625000	51.3	V	-14.0	22.7	74.0
4574.687500	53.4	V	-12.3	20.6	74.0
6405.062500	51.7	V	-8.2	22.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1829.125000	53.3	H	-18.6	0.7	54.0
2745.437500	50.3	H	-15.3	3.7	54.0
3660.906250	49.0	H	-14.0	5.0	54.0
4574.968750	51.1	H	-12.3	2.9	54.0
1829.687500	47.6	V	-18.6	6.4	54.0
3660.625000	49.5	V	-14.0	4.5	54.0
4574.687500	52.2	V	-12.3	1.8	54.0
6405.062500	49.9	V	-8.2	4.1	54.0

Figure 10: Radiated Spurious Emission, 927.4MHz

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 10GHz H	**1GHz to 7GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.212500	28.4	H	25.0	11.6	40.0
878.507500	43.5	H	28.5	2.5	46.0
975.628750	44.2	H	29.7	9.8	54.0
31.333750	34.9	V	24.9	5.1	40.0
39.093750	32.7	V	20.5	7.3	40.0
975.750000	43.9	V	29.7	10.1	54.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1854.718750	54.8	H	-18.5	19.2	74.0
2783.125000	50.8	H	-15.2	23.2	74.0
3711.531250	52.0	H	-13.9	22.0	74.0
4639.375000	51.9	H	-12.0	22.1	74.0
1854.718750	50.1	V	-18.5	23.9	74.0
3711.531250	52.5	V	-13.9	21.5	74.0
4639.093750	53.2	V	-12.0	20.8	74.0
5564.687500	52.2	V	-11.4	21.8	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1854.718750	53.6	H	-18.5	0.4	54.0
2783.125000	49.7	H	-15.2	4.3	54.0
3711.531250	50.8	H	-13.9	3.2	54.0
4639.375000	51.1	H	-12.0	2.9	54.0
1854.718750	49.5	V	-18.5	4.5	54.0
3711.531250	51.8	V	-13.9	2.2	54.0
4639.093750	52.4	V	-12.0	1.6	54.0
5564.687500	50.4	V	-11.4	3.6	54.0

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