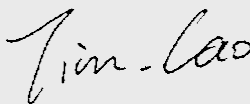
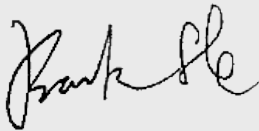


Test report No:
2540161R.701

FCC&ISED C2PC TEST REPORT

Product Name	LoRa Module
Trademark	Murata
Model and /or type reference	LBAA0XV2GT
FCC ID	VPYLB2GT
IC	772C-LB2GT
Applicant's name / address	Murata Manufacturing Co., Ltd. 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555, Japan
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10: 2013 RSS-Gen Issue 5 Amendment 2 RSS-247 Issue 3
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao/ Project Manager 
Approved by (name / position & signature)	Frank He/ Technical Manager 
Date of issue	2025-05-06
Report Version	V1.0
Report template No	Template_FCC 15.247-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Apr. 08, 2025
Date (start test)	Apr. 10, 2025
Date (finish test)	Apr. 17, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2540161R.701	V1.0	Initial issue of report.	2025-05-06

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with FCC and ISED C2PC requirements.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, it is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Channel List;
 - Chapter 1.3 Power Setting

USED EQUIPMENT

Conducted Test / TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2024.07.11	2025.07.10	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2024.10.26	2025.10.25	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Radiated Emission(9kHz-1GHz) / AC3(Chamber details)

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC3-TH	2024.07.04	2025.07.03	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC3-C	2024.04.27	2025.04.26	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2024.11.02	2025.11.01	A.31.05	N/A
Pre-Amplifier	SKET	LNPA_0118G-45	SK2021090101	2024.04.27	2025.04.26	N/A	N/A
Preamplifier	CHENGYI	EMC184045SE	980263	2024.07.06	2025.07.05	N/A	N/A
DRG Horn	ETS-Lindgren	3117	123988	2024.11.24	2025.11.23	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2024.05.30	2025.05.29	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2025.03.15	2026.03.14	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-024	2024.05.17	2025.05.16	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2025.01.18	2026.01.17	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2024.05.26	2025.05.25	N/A	N/A
Cable	Rosenberger	LA1-C390-2000	0001	2024.05.26	2025.05.25	N/A	N/A
Cable	Rosenberger	LA1-C390-2000	0002	2024.05.26	2025.05.25	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. Uncertainties is comply with standard required as below.

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.9 dB
Peak Power Output	± 1.1 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.6 dB 200MHz~1GHz: 4.1 dB Vertical: 30MHz~200MHz: 4.8 dB 200MHz~1GHz: 4.1 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.0 dB Vertical: 1GHz~18GHz: 4.8 dB Horizontal: 18GHz~40GHz: 4.7 dB Vertical: 18GHz~40GHz: 4.6 dB
RF antenna conducted test	± 1.1 dB
Radiated Emission Band Edge	± 5.0 dB
DTS Bandwidth	$\pm 2.8 \times 10^2$ Hz
Occupied Bandwidth	$\pm 2.8 \times 10^2$ Hz
Power Density	± 1.1 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name.....:	LoRa Module
Model No.:	LBAA0XV2GT
FCC ID.....:	VPYLB2GT
IC	772C-LB2GT
Hardware Version.....:	1.0
Software Version	0x0102
Manufacturer	Murata Manufacturing Co., Ltd.
Manufacturer Address	10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555, Japan
Factory	Murata Manufacturing Co., Ltd.
Factory Address	10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555, Japan
Power Supply	DC: 1.8 – 3.6Vdc, Typical 3.3Vdc
Wireless specification	LoRa(DTS/FHSS/Hybrid)/LR-FHSS/FSK
Operating frequency range(s) :	LoRa(DTS) 500kHz bandwidth: 903MHz~914.2MHz LoRa(FHSS) 125kHz bandwidth: 902.3MHz~914.9MHz LR-FHSS 1.523MHz bandwidth: 903MHz~914.2MHz SubG CSS 500kHz bandwidth: 902.5MHz~926.5MHz SubG FSK 902.2MHz~927.8MHz
Modulation	LoRa/LR-FHSS/FSK
Number of channel	LoRa(DTS): 8 LoRa(FHSS): 64 LR -FHSS:8X60 SubG CSS: 31 SubG FSK:129
Data Rate	125kHz bandwidth LoRa: DR0~3 500kHz bandwidth LoRa: DR4 LR-FHSS: DR5~6 SubG CSS: 2kbps SubG FSK: 50kbps
Device category.....:	☐ Fixed point-to-point ☐ Emit multiple directional beams, simultaneously or sequentially ☒ Other cases
Antenna Gain.....:	2195835-1, 2195835-2, 2195835-3, 2195835-4: 2.1dBi The only difference between the four antennas is the cable length. The cable length of 2195835-1 is 50mm, 2195835-2 is 100mm, 2195835-3 is 150mm, and 2195835-4 is 200mm. The test data of 2195835-2 is similar to that of 2195835-3, so it is not shown.

Note: LR-FHSS: Each of the eight channels contains 60 sub-channels, and the frequency hopping function is actually implemented between sub-channels. The RF performance of the eight channels is completely consistent, so the test data of only one typical channel is presented in the report.

1.2 Channel List

LoRa(FHSS) 125kHz Bandwidth

Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)
0	902.3	1	902.5	2	902.7	3	902.9
4	903.1	5	903.3	6	903.5	7	903.7
8	903.9	9	904.1	10	904.3	11	904.5
12	904.7	13	904.9	14	905.1	15	905.3
16	905.5	17	905.7	18	905.9	19	906.1
20	906.3	21	906.5	22	906.7	23	906.9
24	907.1	25	907.3	26	907.5	27	907.7
28	907.9	29	908.1	39	908.3	31	908.5
32	908.7	33	908.9	34	909.1	35	909.3
36	909.5	37	909.7	38	909.9	39	910.1
40	910.3	41	910.5	42	910.7	43	910.9
44	911.1	45	911.3	46	911.5	47	911.7
48	911.9	49	912.1	50	912.3	51	912.5
52	912.7	53	912.9	54	913.1	55	913.3
56	913.5	57	913.7	58	913.9	59	914.1
60	914.3	61	914.5	62	914.7	63	914.9

LoRa(DTS) 500kHz Bandwidth

Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)
64	903	65	904.6	66	906.2	67	907.8
68	909.4	69	911	70	912.6	71	914.2

LR-FHSS 1.523MHz Bandwidth

Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)	Channel NO.	Frequency (MHz)
64	903	65	904.6	66	906.2	67	907.8
68	909.4	69	911	70	912.6	71	914.2

LoRa(CSS) 500kHz Bandwidth

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	902.5 MHz	02	903.3 MHz	03	904.1 MHz	04	904.9 MHz
05	905.7 MHz	06	906.5 MHz	07	907.3 MHz	08	908.1 MHz
09	908.9 MHz	10	909.7 MHz	11	910.5 MHz	12	911.3 MHz
13	912.1 MHz	14	912.9 MHz	15	913.7 MHz	16	914.5 MHz
17	915.3 MHz	18	916.1 MHz	19	916.9 MHz	20	917.7 MHz
21	918.5 MHz	22	919.3 MHz	23	920.1 MHz	24	920.9 MHz
25	921.7 MHz	26	922.5 MHz	27	923.3 MHz	28	924.1 MHz
29	924.9 MHz	30	925.7 MHz	31	926.5 MHz		

LoRa (FSK)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	902.2 MHz	02	902.4 MHz	03	902.6 MHz	04	902.8 MHz
05	903 MHz	06	903.2 MHz	07	903.4 MHz	08	903.6 MHz
09	903.8 MHz	10	904 MHz	11	904.2 MHz	12	904.4 MHz
13	904.6 MHz	14	904.8 MHz	15	905 MHz	16	905.2 MHz
17	905.4 MHz	18	905.6 MHz	19	905.8 MHz	20	906 MHz
21	906.2 MHz	22	906.4 MHz	23	906.6 MHz	24	906.8 MHz
25	907 MHz	26	907.2 MHz	27	907.4 MHz	28	907.6 MHz
29	907.8 MHz	30	908 MHz	31	908.2 MHz	32	908.4 MHz
33	908.6 MHz	34	908.8 MHz	35	909 MHz	36	909.2 MHz
37	909.4 MHz	38	909.6 MHz	39	909.8 MHz	40	910 MHz
41	910.2 MHz	42	910.4 MHz	43	910.6 MHz	44	910.8 MHz
45	911 MHz	46	911.2 MHz	47	911.4 MHz	48	911.6 MHz
49	911.8 MHz	50	912 MHz	51	912.2 MHz	52	912.4 MHz
53	912.6 MHz	54	912.8 MHz	55	913 MHz	56	913.2 MHz
57	913.4 MHz	58	913.6 MHz	59	913.8 MHz	60	914 MHz
61	914.2 MHz	62	914.4 MHz	63	914.6 MHz	64	914.8 MHz
65	915 MHz	66	915.2 MHz	67	915.4 MHz	68	915.6 MHz
69	915.8 MHz	70	916 MHz	71	916.2 MHz	72	916.4 MHz
73	916.6 MHz	74	916.8 MHz	75	917 MHz	76	917.2 MHz
77	917.4 MHz	78	917.6 MHz	79	917.8 MHz	80	918 MHz
81	918.2 MHz	82	918.4 MHz	83	918.6 MHz	84	918.8 MHz
85	919 MHz	86	919.2 MHz	87	919.4 MHz	88	919.6 MHz
89	919.8 MHz	90	920 MHz	91	920.2 MHz	92	920.4 MHz
93	920.6 MHz	94	920.8 MHz	95	921 MHz	96	921.2 MHz
97	921.4 MHz	98	921.6 MHz	99	921.8 MHz	100	922 MHz
101	922.2 MHz	102	922.4 MHz	103	922.6 MHz	104	922.8 MHz
105	923 MHz	106	923.2 MHz	107	923.4 MHz	108	923.6 MHz
109	923.8 MHz	110	924 MHz	111	924.2 MHz	112	924.4 MHz
113	924.6 MHz	114	924.8 MHz	115	925 MHz	116	925.2 MHz
117	925.4 MHz	118	925.6 MHz	119	925.8 MHz	120	926 MHz
121	926.2 MHz	122	926.4 MHz	123	926.6 MHz	124	926.8 MHz
125	927 MHz	126	927.2 MHz	127	927.4 MHz	128	927.6 MHz
129	927.8 MHz						

Note: The LR-FHSS mode has 8 channels with 60 sub-channels each, and the channel spacing is 25.4KHz.

1.3 Power Setting

Mode	Frequency(MHz)	Power Setting
Mode 1 LoRa FHSS 125kHz bandwidth	902.3	22
	908.5	22
	914.9	22
Mode 2 LoRa DTS 500kHz bandwidth	903.0	22
	907.8	22
	914.2	22
Mode 3 LR-FHSS 1.523MHz bandwidth	903.0	22
	907.8	22
	914.2	22
Mode 4 SubG CSS	902.5	22
	914.5	22
	926.5	22
Mode 5 SubG FSK	902.2	22
	915	22
	927.8	22

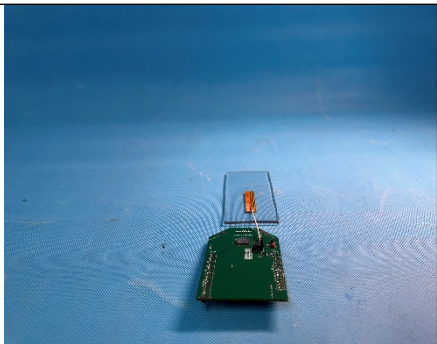
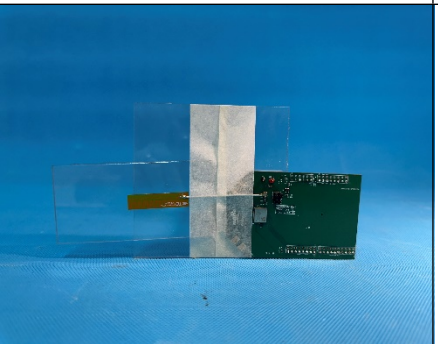
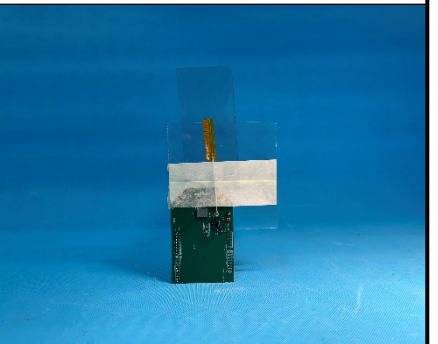
Note: As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode	Mode 1: Transmit by LoRa with FHSS 125kHz bandwidth(902.3-914MHz).
	Mode 2: Transmit by LoRa with DTS 500kHz bandwidth(903-914.2MHz)
	Mode 3: Transmit by LoRa with LR-FHSS 1.523MHz bandwidth(903-914.2MHz)
	Mode 4: Transmit by LoRa with SubG CSS(902.5-926.5MHz)
	Mode 5: Transmit by LoRa with SubG FSK(902.2-927.8MHz)

X axis	Y axis	Z axis
		
Note : For client device, radiated tests was verified over X, Y, Z axis, and shown the worst case X axis on this report.		

2.2 Support / Auxiliary equipment / unit / Test software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
Notebook	Think pad x280	Lenovo	Adapter
software	Type / Version	Manufacturer	Supplied by
SSCOM	5.13.1	N/A	N/A

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2023	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
RSS-Gen Issue 5 Amendment 2	2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

3.2 Overview of results

For FCC:

Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC 15.207	N/A	---
Emissions in restricted frequency bands	FCC 15.247(d), 15.209	PASS	---
Emissions in non-restricted frequency bands	FCC 15.247(d)	N/A	---
Radiated Emission Band Edge	FCC 15.247(d), 15.209	N/A	---
Fundamental emission output power	FCC 15.247(b)(3)	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	N/A	---
20dB Bandwidth	FCC 15.247(a)(1)	N/A	---
Power Spectral Density	FCC 15.247(e)	N/A	---
Carrier Frequency Separation	FCC 15.247(a)(1)	N/A	---
Number of Hopping Frequencies	FCC 15.247(a)(1)(iii)	N/A	---
Time of Occupancy (Dwell Time)	FCC 15.247(a)(1)(iii)	N/A	---
Antenna Requirement	FCC 15.203	PASS	---

For ISSED:

Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	RSS-Gen Issue 5 Section 8.8	N/A	---
Emissions in restricted frequency bands	RSS-Gen Issue 5 Section 8.9	PASS	---
Emissions in non-restricted frequency bands	RSS-247 Issue 3 Section A5.5	N/A	---
Radiated Emission Band Edge	RSS-247 Issue 3 Section A5.5	N/A	---
Fundamental emission output power	RSS-247 Issue 3 Section A5.4(4)	PASS	---
DTS Bandwidth	RSS-Gen Issue 5 Section 6.6	N/A	---
20dB Bandwidth	RSS-247 Issue 3 Section A5.2(1)	N/A	---
Carrier Frequency Separation	RSS-247 Issue 3 Section 5.1	N/A	---
Number of Hopping Frequencies	RSS-247 Issue 3 Section 5.1	N/A	---
Time of Occupancy (Dwell Time)	RSS-247 Issue 3 Section 5.1	N/A	---
Power Spectral Density	RSS-247 Issue 3 Section A5.2(2)	N/A	---
Antenna Requirement	RSS-Gen Issue 5 Section 6.8	PASS	---

3.3 Test Facility

USA	:	FCC Designation Number: CN1199
-----	---	--------------------------------

Canada	:	CAB identifier Number: CN0040
--------	---	-------------------------------

4 TEST RESULTS

4.1 Emissions in restricted frequency bands	VERDICT: PASS
--	----------------------

4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.205; 15.209	
Restricted Bands of operation for FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.81425 - 8.81475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	Above 38.6
13.36 - 13.41	--	--	--
Restricted Bands of operation for ISED			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	--
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	--
8.41425 - 8.41475	240 - 285	5350 - 5460	--
12.29 - 12.293	322 - 335.4	7250 - 7750	--
12.51975 - 12.52025	399.9 - 410	8025 - 8500	--
12.57675 - 12.57725	608 - 614	--	--

Restricted Band Emissions Limit

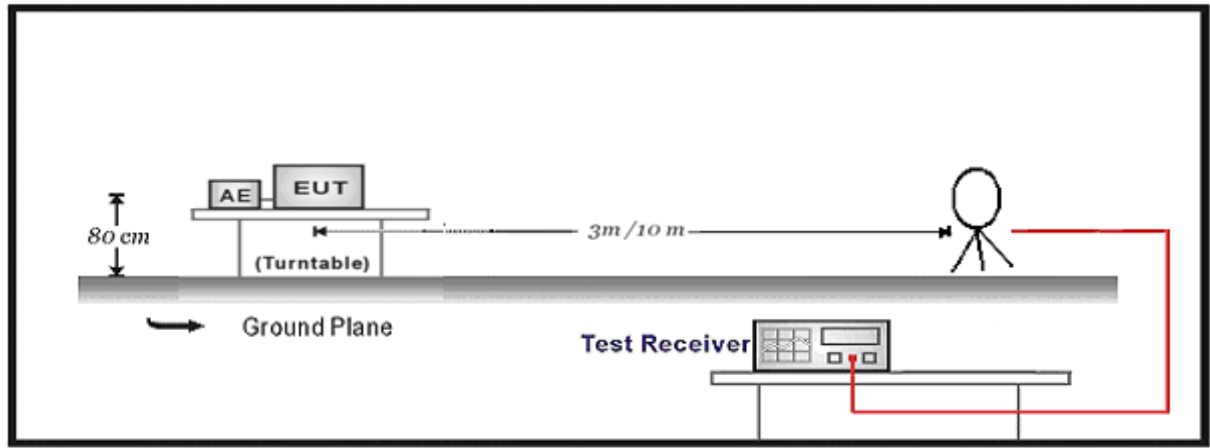
Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 - 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

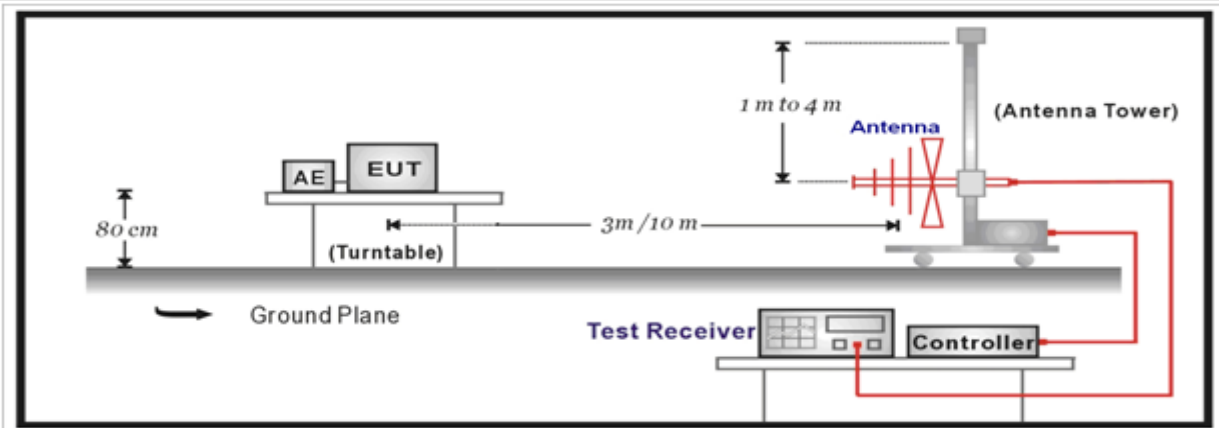
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.1.2 Test Setup

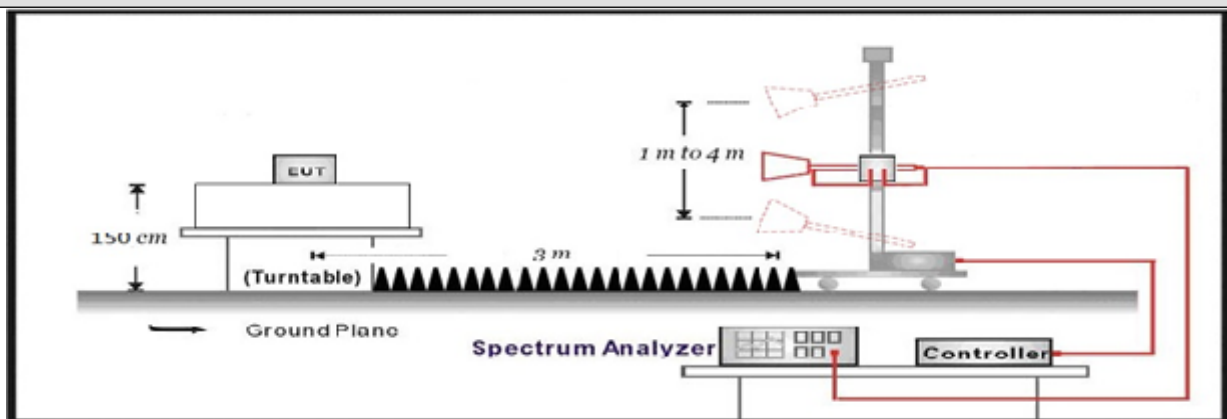
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



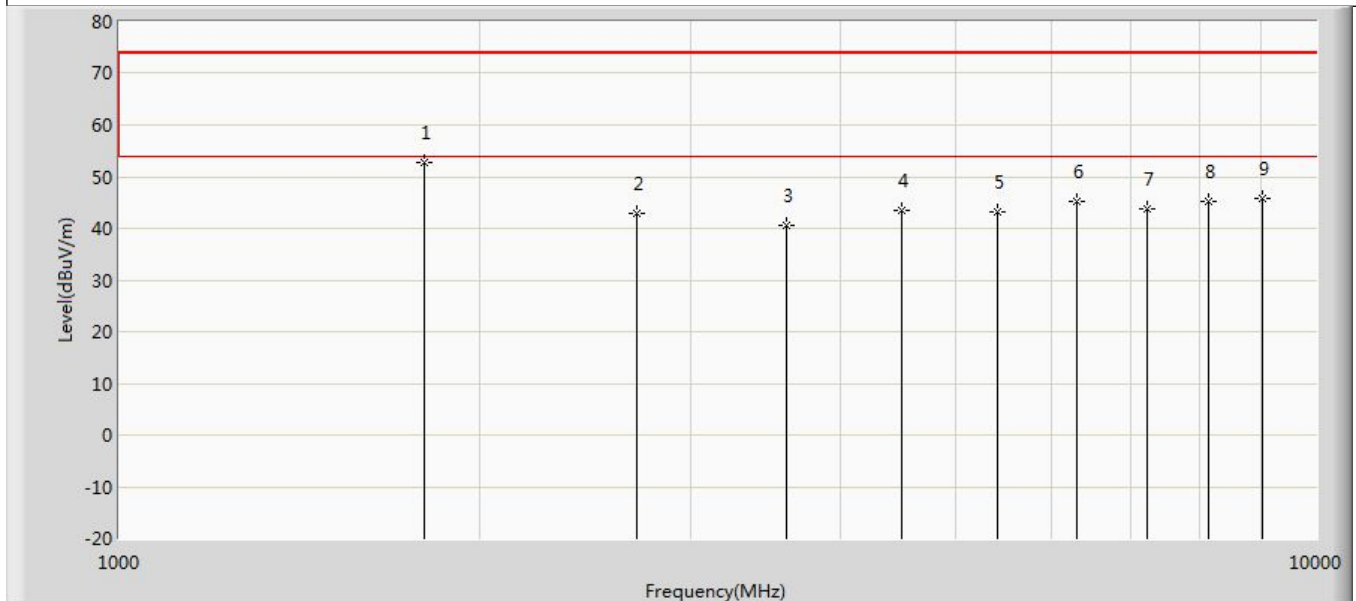
4.1.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	6.3	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10	11.12.2	Antenna-port conducted measurements
	☐	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	☐	ANSI C63.10	11.12.2.4	Peak power measurement procedure
	☐	ANSI C63.10	11.12.2.5	Average power measurement procedures
	☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.1.4 Test Data

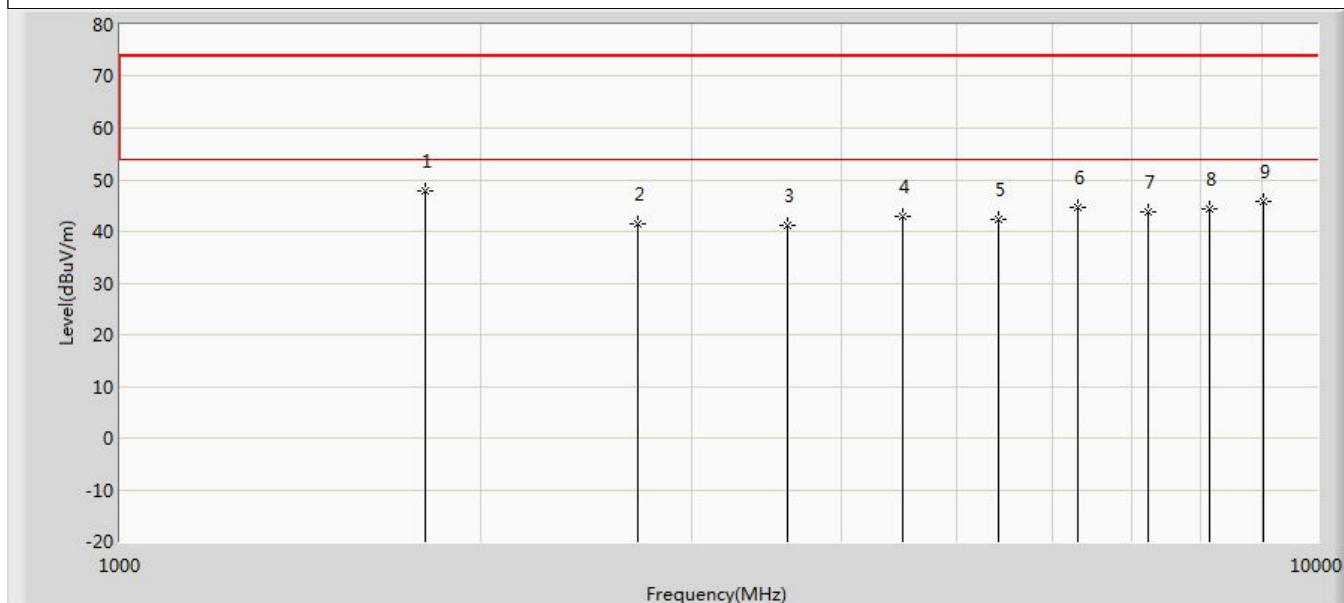
2195835-1 (cable length 50mm):

Profile: 2540161R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 902.3MHz by LoRa 125K	



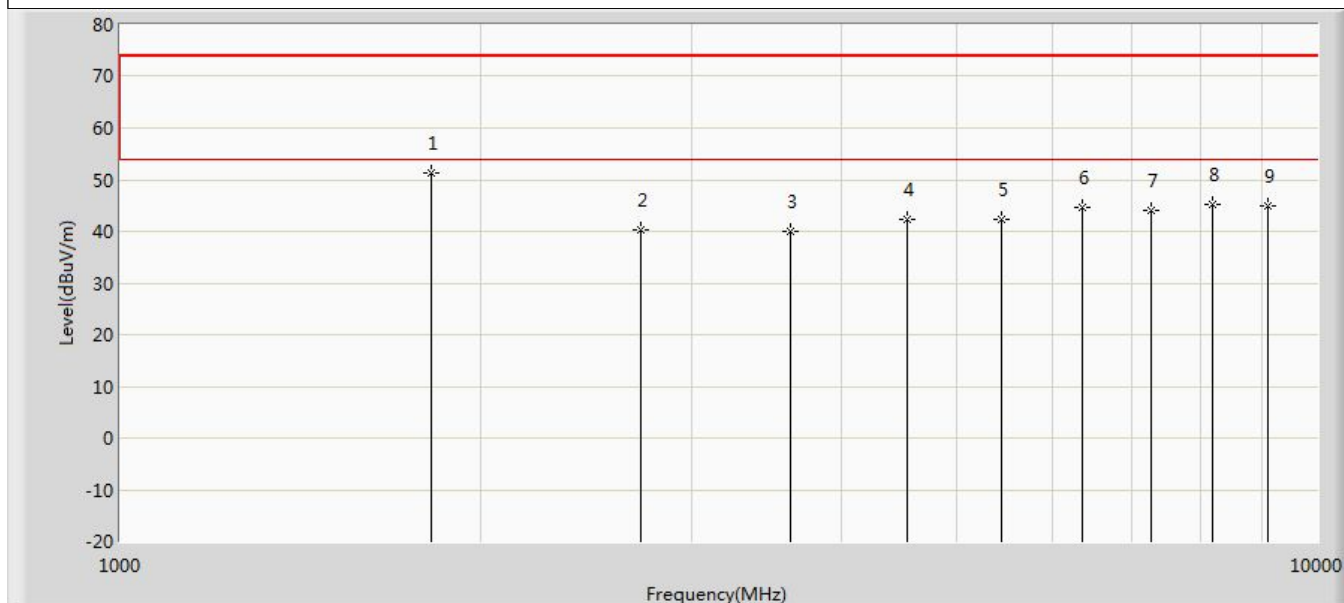
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	52.812	64.485	-21.188	74.000	-11.672	PK
2		2710.000	42.785	51.523	-31.215	74.000	-8.739	PK
3		3609.200	40.550	47.203	-33.450	74.000	-6.654	PK
4		4511.500	43.335	47.290	-30.665	74.000	-3.956	PK
5		5413.800	43.139	45.687	-30.861	74.000	-2.547	PK
6		6316.100	45.241	45.896	-28.759	74.000	-0.656	PK
7		7218.400	43.730	44.372	-30.270	74.000	-0.642	PK
8		8120.700	45.357	45.237	-28.643	74.000	0.120	PK
9		9023.000	45.786	45.266	-28.214	74.000	0.519	PK

Profile: 2540161R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 902.3MHz by LoRa 125K	



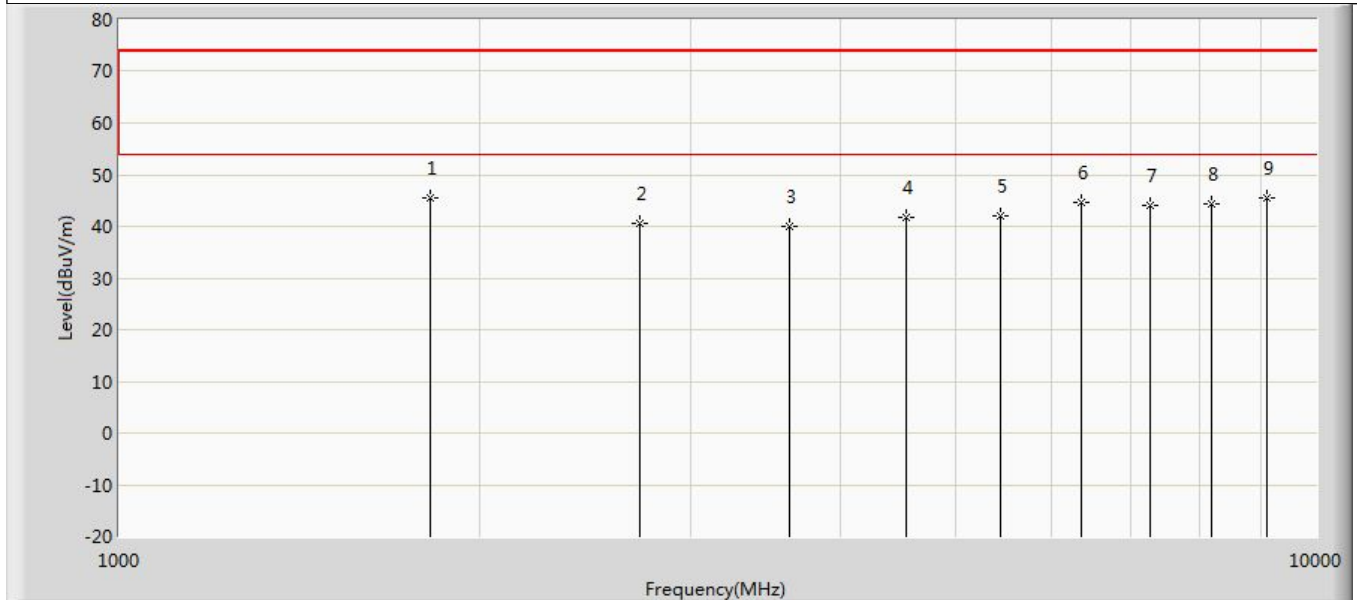
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	47.909	59.582	-26.091	74.000	-11.672	PK
2		2710.000	41.558	50.296	-32.442	74.000	-8.739	PK
3		3609.200	41.066	47.719	-32.934	74.000	-6.654	PK
4		4511.500	42.780	46.735	-31.220	74.000	-3.956	PK
5		5413.800	42.330	44.878	-31.670	74.000	-2.547	PK
6		6316.100	44.626	45.281	-29.374	74.000	-0.656	PK
7		7218.400	43.873	44.515	-30.127	74.000	-0.642	PK
8		8120.700	44.442	44.322	-29.558	74.000	0.120	PK
9		9023.000	45.907	45.387	-28.093	74.000	0.519	PK

Profile: 2540161R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



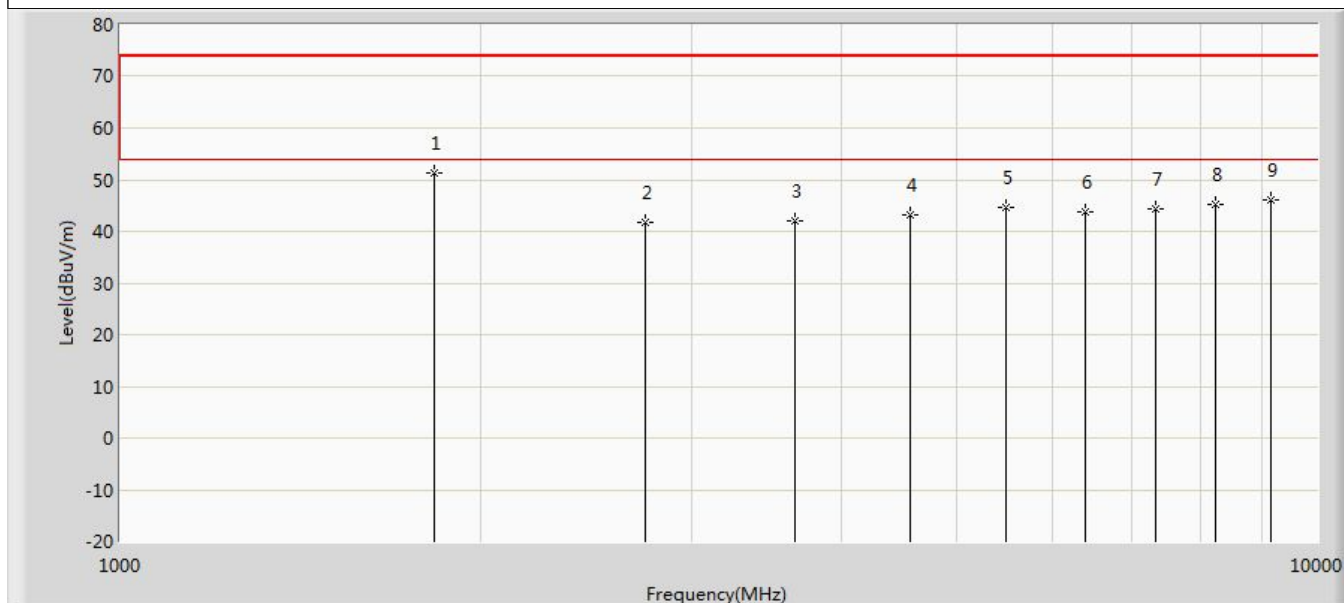
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	51.440	63.055	-22.560	74.000	-11.615	PK
2		2725.500	40.298	49.127	-33.702	74.000	-8.829	PK
3		3634.000	39.885	46.641	-34.115	74.000	-6.756	PK
4		4542.500	42.242	47.051	-31.758	74.000	-4.809	PK
5		5451.000	42.430	45.016	-31.570	74.000	-2.587	PK
6		6359.500	44.576	45.631	-29.424	74.000	-1.055	PK
7		7268.000	44.000	44.374	-30.000	74.000	-0.375	PK
8		8176.500	45.271	45.155	-28.729	74.000	0.116	PK
9		9085.000	44.884	44.839	-29.116	74.000	0.044	PK

Profile: 2540161R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



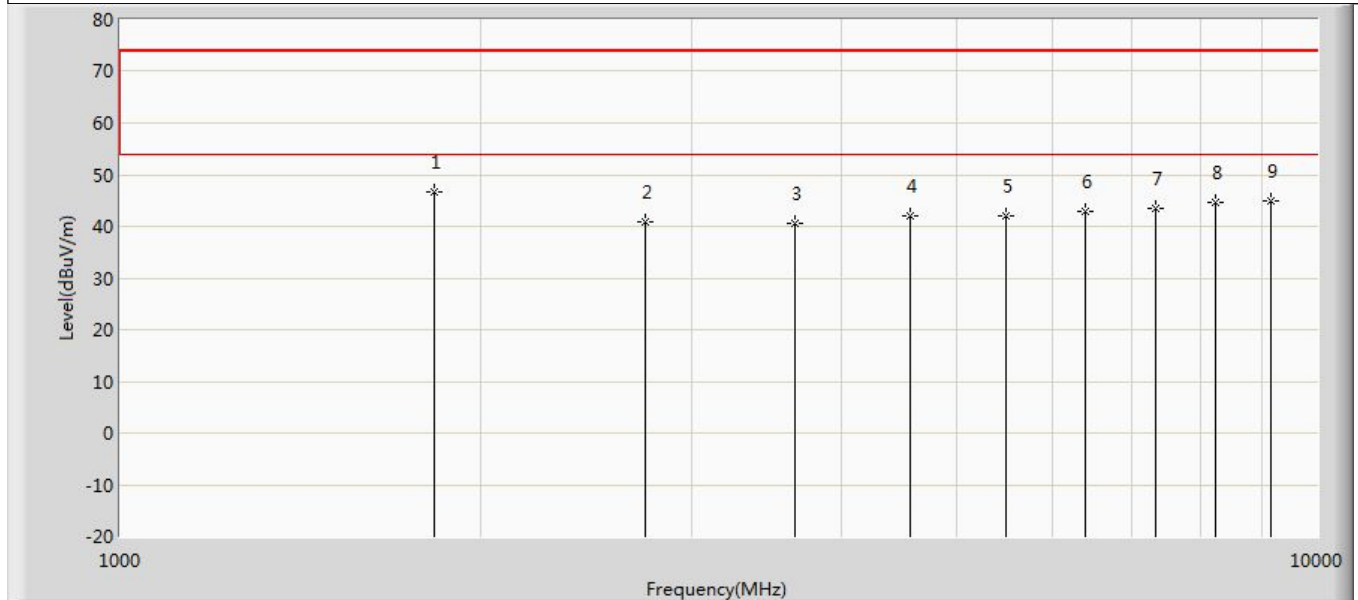
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	45.606	57.221	-28.394	74.000	-11.615	PK
2		2725.500	40.713	49.542	-33.287	74.000	-8.829	PK
3		3634.000	39.906	46.662	-34.094	74.000	-6.756	PK
4		4542.500	41.647	46.456	-32.353	74.000	-4.809	PK
5		5451.000	41.910	44.496	-32.090	74.000	-2.587	PK
6		6359.500	44.630	45.685	-29.370	74.000	-1.055	PK
7		7268.000	44.139	44.513	-29.861	74.000	-0.375	PK
8		8176.500	44.431	44.315	-29.569	74.000	0.116	PK
9		9085.000	45.545	45.500	-28.455	74.000	0.044	PK

Profile: 2540161R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



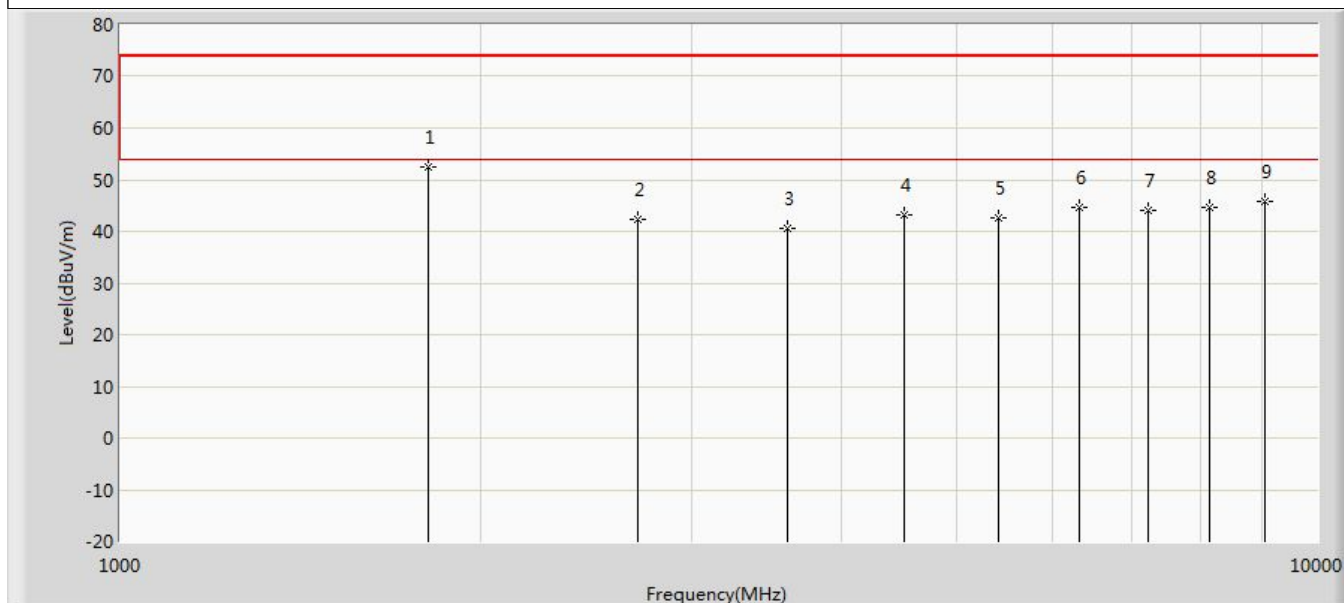
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	51.242	62.577	-22.758	74.000	-11.335	PK
2		2744.700	41.716	50.456	-32.284	74.000	-8.740	PK
3		3659.600	41.911	48.198	-32.089	74.000	-6.287	PK
4		4574.500	43.258	47.463	-30.742	74.000	-4.205	PK
5		5489.400	44.705	47.309	-29.295	74.000	-2.604	PK
6		6404.300	43.688	45.172	-30.312	74.000	-1.484	PK
7		7319.200	44.298	45.132	-29.702	74.000	-0.833	PK
8		8234.100	45.166	44.676	-28.834	74.000	0.490	PK
9		9149.000	46.128	45.530	-27.872	74.000	0.598	PK

Profile: 2540161R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



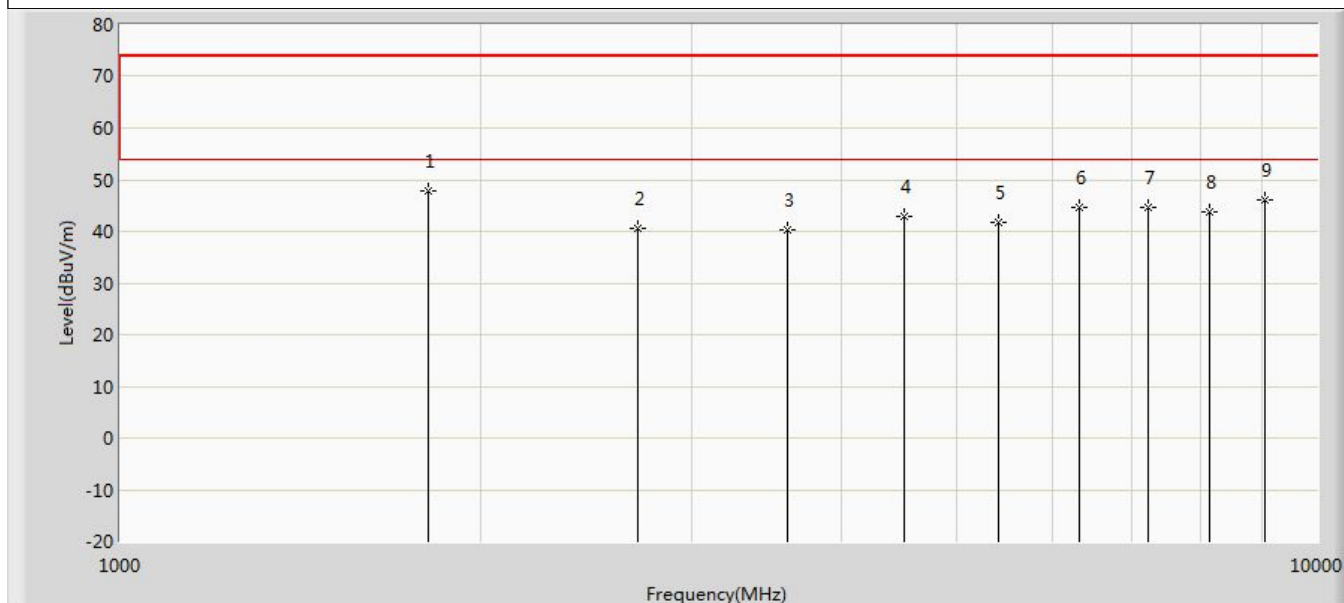
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	46.684	58.019	-27.316	74.000	-11.335	PK
2		2744.700	40.894	49.634	-33.106	74.000	-8.740	PK
3		3659.600	40.451	46.738	-33.549	74.000	-6.287	PK
4		4574.500	41.995	46.200	-32.005	74.000	-4.205	PK
5		5489.400	42.014	44.618	-31.986	74.000	-2.604	PK
6		6404.300	42.789	44.273	-31.211	74.000	-1.484	PK
7		7319.200	43.504	44.338	-30.496	74.000	-0.833	PK
8		8234.100	44.545	44.055	-29.455	74.000	0.490	PK
9		9149.000	45.024	44.426	-28.976	74.000	0.598	PK

Profile: 2540161R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



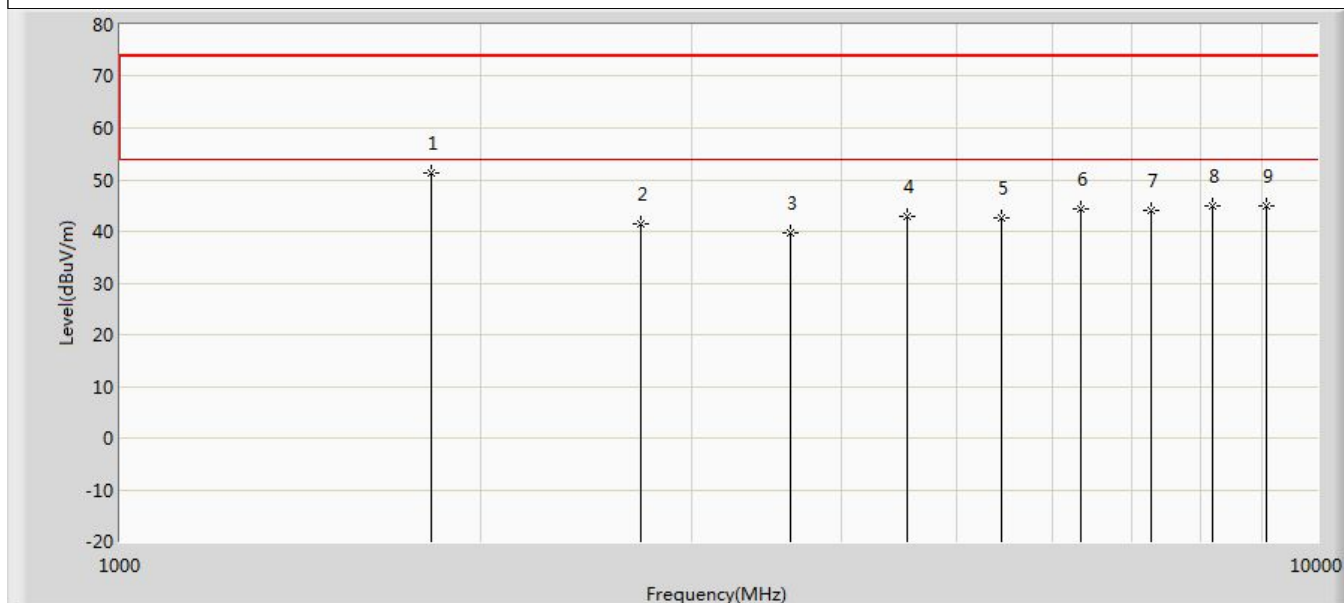
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	52.531	64.225	-21.469	74.000	-11.694	PK
2		2710.000	42.262	51.000	-31.738	74.000	-8.739	PK
3		3612.000	40.451	47.051	-33.549	74.000	-6.600	PK
4		4515.000	43.095	46.907	-30.905	74.000	-3.812	PK
5		5418.000	42.575	45.063	-31.425	74.000	-2.489	PK
6		6321.000	44.739	45.247	-29.261	74.000	-0.508	PK
7		7224.000	44.078	44.723	-29.922	74.000	-0.646	PK
8		8127.000	44.556	44.569	-29.444	74.000	-0.014	PK
9		9030.000	45.744	45.243	-28.256	74.000	0.501	PK

Profile: 2540161R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



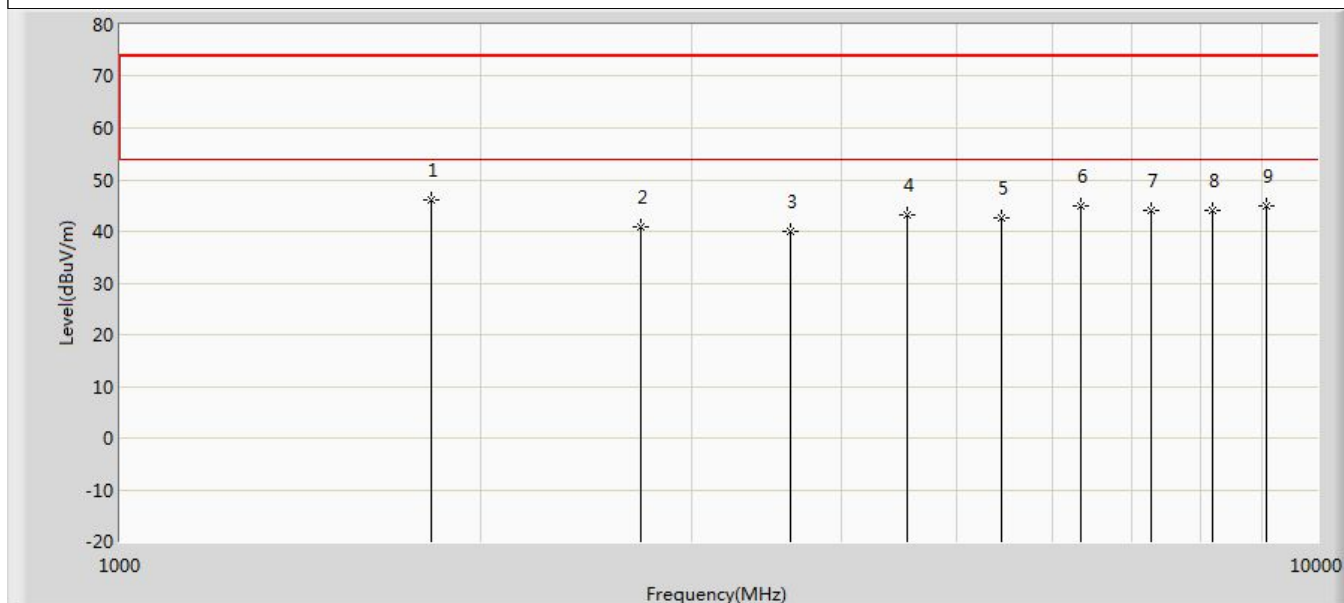
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	47.684	59.378	-26.316	74.000	-11.694	PK
2		2709.000	40.614	49.350	-33.386	74.000	-8.737	PK
3		3612.000	40.355	46.955	-33.645	74.000	-6.600	PK
4		4515.000	42.949	46.761	-31.051	74.000	-3.812	PK
5		5418.000	41.871	44.359	-32.129	74.000	-2.489	PK
6		6321.000	44.680	45.188	-29.320	74.000	-0.508	PK
7		7224.000	44.591	45.236	-29.409	74.000	-0.646	PK
8		8127.000	43.897	43.910	-30.103	74.000	-0.014	PK
9		9030.000	46.205	45.704	-27.795	74.000	0.501	PK

Profile: 2540161R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



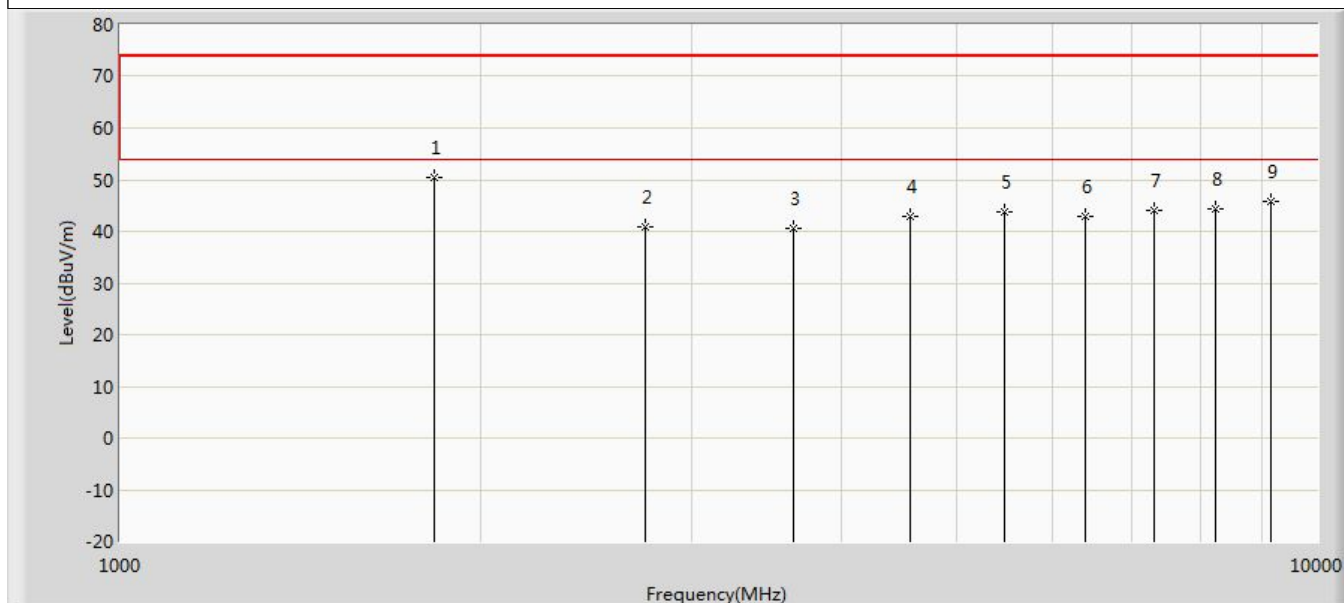
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	51.421	63.036	-22.579	74.000	-11.615	PK
2		2723.400	41.574	50.384	-32.426	74.000	-8.810	PK
3		3631.200	39.651	46.359	-34.349	74.000	-6.709	PK
4		4539.000	42.828	47.594	-31.172	74.000	-4.766	PK
5		5446.800	42.635	45.013	-31.365	74.000	-2.378	PK
6		6354.600	44.284	45.397	-29.716	74.000	-1.112	PK
7		7262.400	44.050	44.561	-29.950	74.000	-0.511	PK
8		8170.200	44.798	44.673	-29.202	74.000	0.125	PK
9		9078.000	44.852	44.649	-29.148	74.000	0.203	PK

Profile: 2540161R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



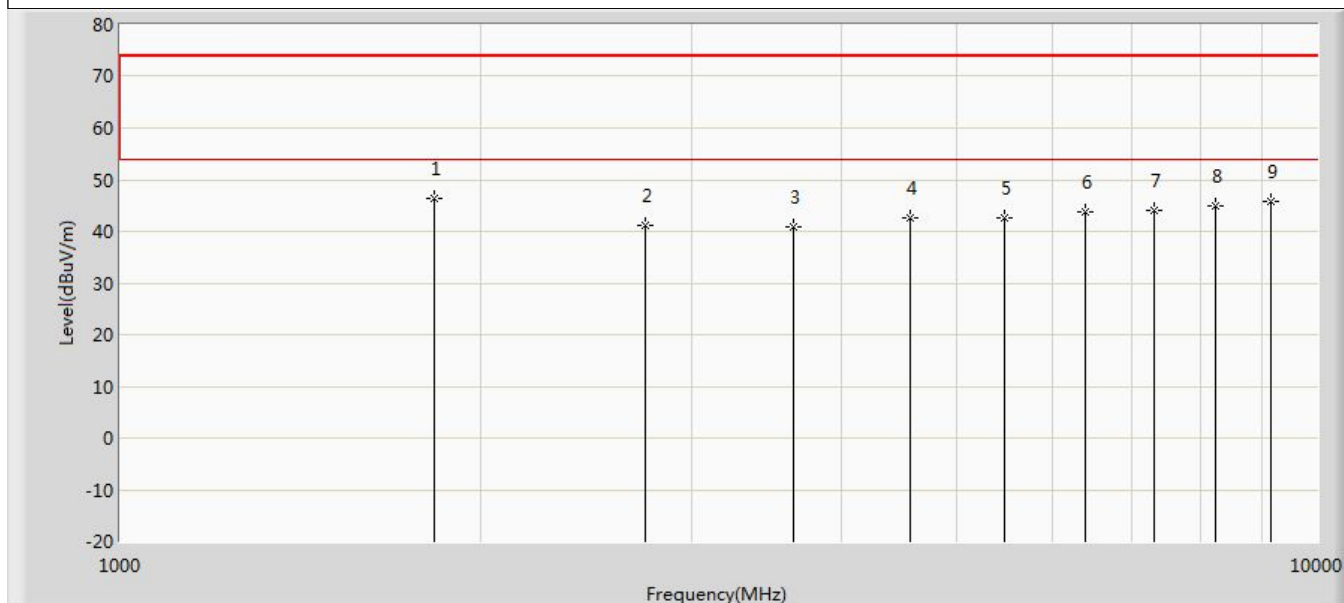
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	46.216	57.831	-27.784	74.000	-11.615	PK
2		2723.400	41.003	49.813	-32.997	74.000	-8.810	PK
3		3631.200	39.996	46.704	-34.004	74.000	-6.709	PK
4		4539.000	43.052	47.818	-30.948	74.000	-4.766	PK
5		5446.800	42.500	44.878	-31.500	74.000	-2.378	PK
6		6354.600	44.924	46.037	-29.076	74.000	-1.112	PK
7		7262.400	44.178	44.689	-29.822	74.000	-0.511	PK
8		8170.200	44.191	44.066	-29.809	74.000	0.125	PK
9		9078.000	44.922	44.719	-29.078	74.000	0.203	PK

Profile: 2540161R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



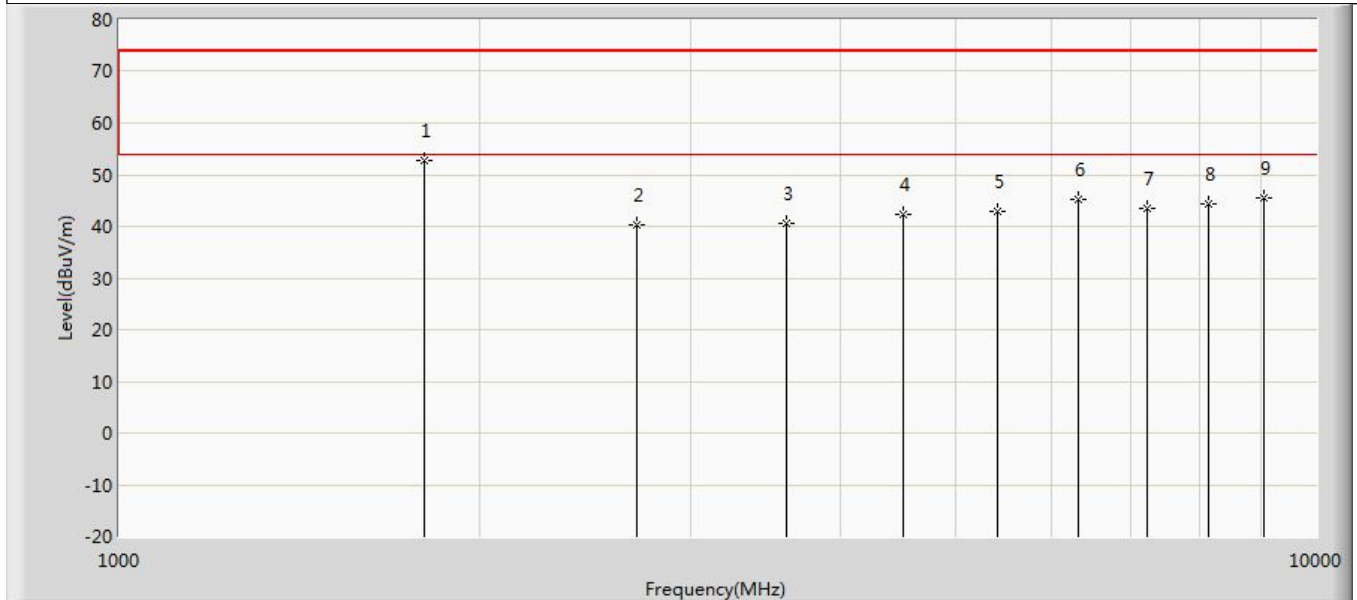
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	50.417	61.752	-23.583	74.000	-11.335	PK
2		2742.600	40.845	49.618	-33.155	74.000	-8.774	PK
3		3656.800	40.682	46.926	-33.318	74.000	-6.244	PK
4		4571.000	42.784	46.977	-31.216	74.000	-4.193	PK
5		5485.200	43.851	46.429	-30.149	74.000	-2.577	PK
6		6399.400	42.876	44.198	-31.124	74.000	-1.323	PK
7		7313.600	44.036	44.778	-29.964	74.000	-0.741	PK
8		8227.800	44.301	44.048	-29.699	74.000	0.253	PK
9		9142.000	45.816	45.085	-28.184	74.000	0.731	PK

Profile: 2540161R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



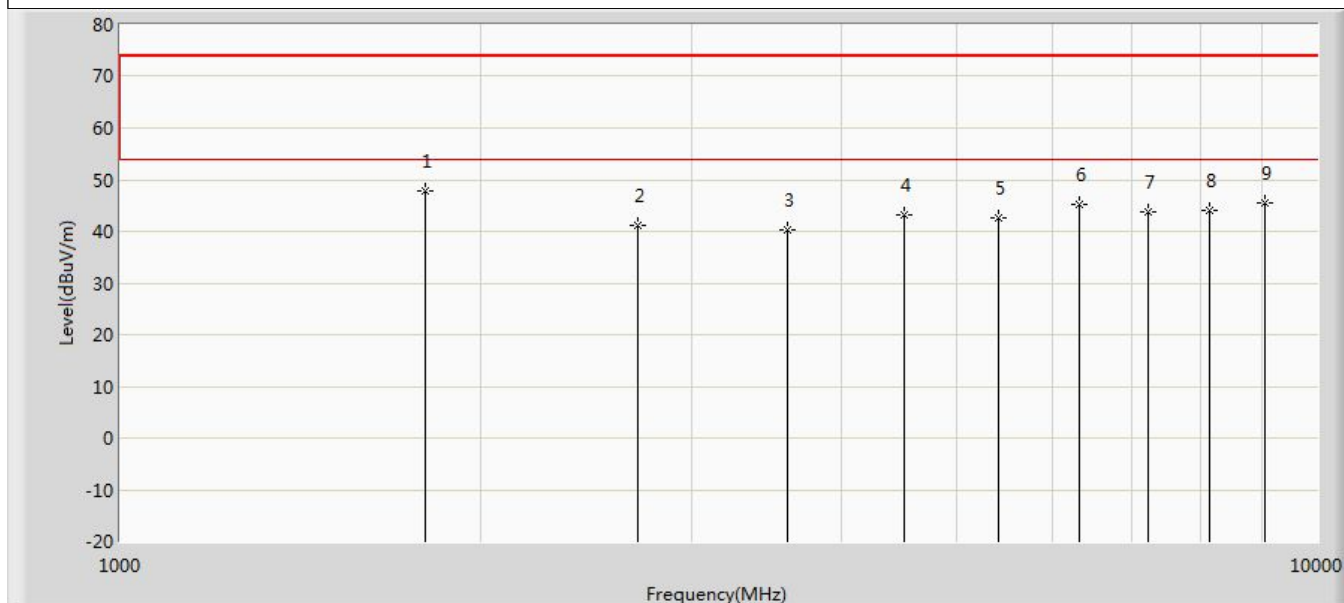
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	46.271	57.606	-27.729	74.000	-11.335	PK
2		2742.600	41.030	49.803	-32.970	74.000	-8.774	PK
3		3656.800	40.773	47.017	-33.227	74.000	-6.244	PK
4		4571.000	42.521	46.714	-31.479	74.000	-4.193	PK
5		5485.200	42.561	45.139	-31.439	74.000	-2.577	PK
6		6399.400	43.880	45.202	-30.120	74.000	-1.323	PK
7		7313.600	43.991	44.733	-30.009	74.000	-0.741	PK
8		8227.800	45.059	44.806	-28.941	74.000	0.253	PK
9		9142.000	45.672	44.941	-28.328	74.000	0.731	PK

Profile: 2540161R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



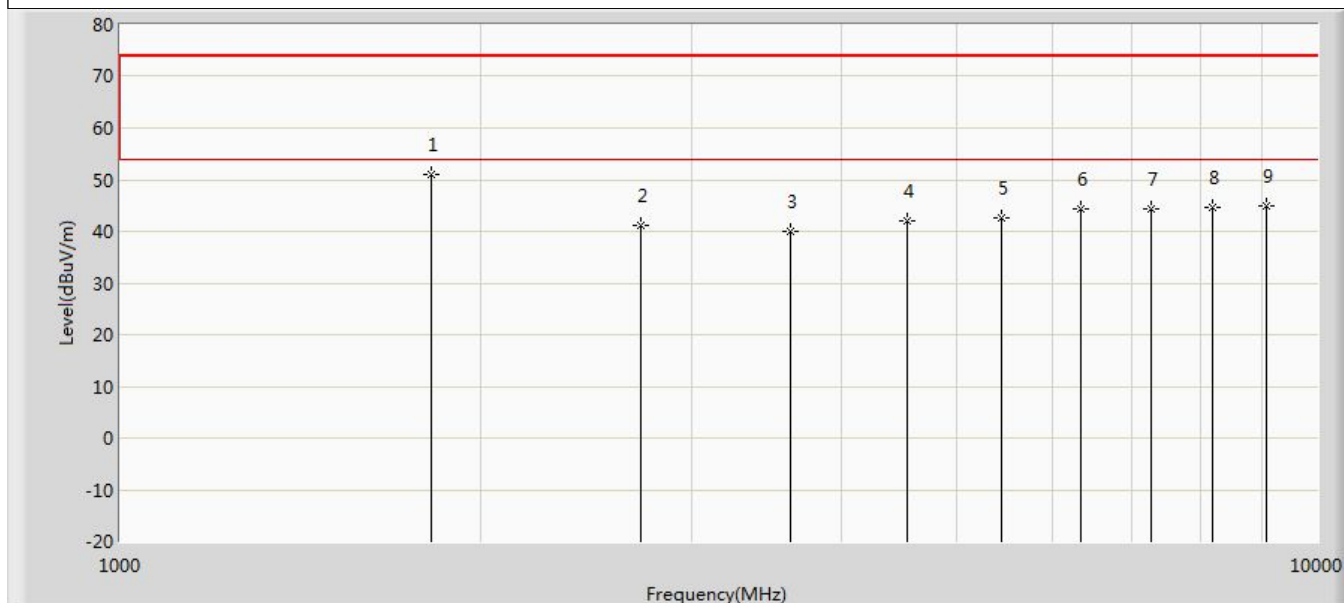
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	52.714	64.387	-21.286	74.000	-11.672	PK
2		2709.000	40.295	49.031	-33.705	74.000	-8.737	PK
3		3612.000	40.689	47.289	-33.311	74.000	-6.600	PK
4		4515.000	42.405	46.217	-31.595	74.000	-3.812	PK
5		5418.000	43.013	45.501	-30.987	74.000	-2.489	PK
6		6321.000	45.351	45.859	-28.649	74.000	-0.508	PK
7		7224.000	43.519	44.164	-30.481	74.000	-0.646	PK
8		8127.000	44.412	44.425	-29.588	74.000	-0.014	PK
9		9030.000	45.522	45.021	-28.478	74.000	0.501	PK

Profile: 2540161R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



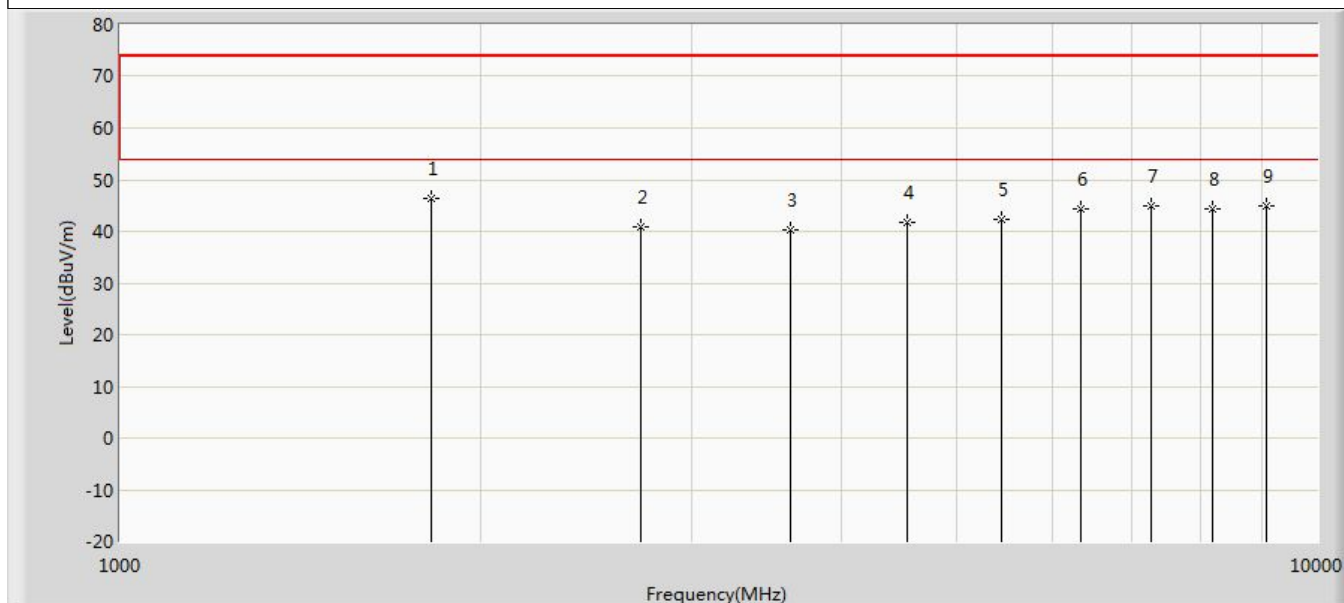
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	47.797	59.470	-26.203	74.000	-11.672	PK
2		2709.000	41.030	49.766	-32.970	74.000	-8.737	PK
3		3612.000	40.358	46.958	-33.642	74.000	-6.600	PK
4		4515.000	43.126	46.938	-30.874	74.000	-3.812	PK
5		5418.000	42.740	45.228	-31.260	74.000	-2.489	PK
6		6321.000	45.312	45.820	-28.688	74.000	-0.508	PK
7		7224.000	43.887	44.532	-30.113	74.000	-0.646	PK
8		8127.000	43.932	43.945	-30.068	74.000	-0.014	PK
9		9030.000	45.632	45.131	-28.368	74.000	0.501	PK

Profile: 2540161R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



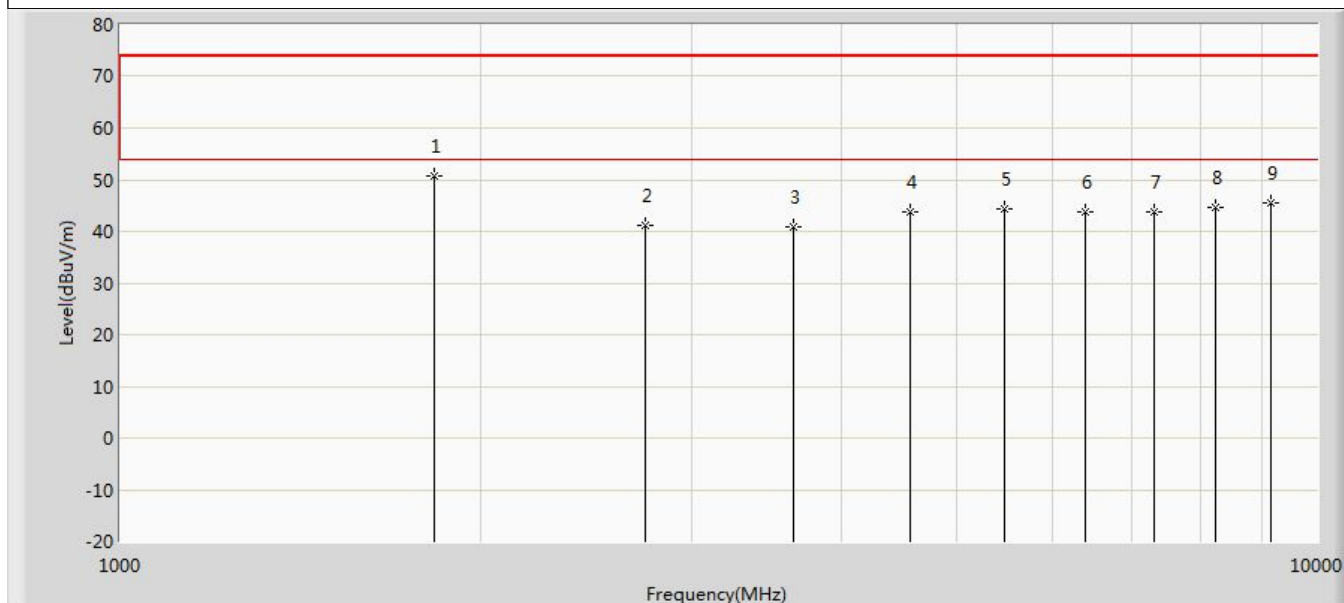
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	51.003	62.618	-22.997	74.000	-11.615	PK
2		2723.400	41.043	49.853	-32.957	74.000	-8.810	PK
3		3631.200	40.049	46.757	-33.951	74.000	-6.709	PK
4		4539.000	42.044	46.810	-31.956	74.000	-4.766	PK
5		5446.800	42.677	45.055	-31.323	74.000	-2.378	PK
6		6354.600	44.491	45.604	-29.509	74.000	-1.112	PK
7		7262.400	44.230	44.741	-29.770	74.000	-0.511	PK
8		8170.200	44.726	44.601	-29.274	74.000	0.125	PK
9		9078.000	44.828	44.625	-29.172	74.000	0.203	PK

Profile: 2540161R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



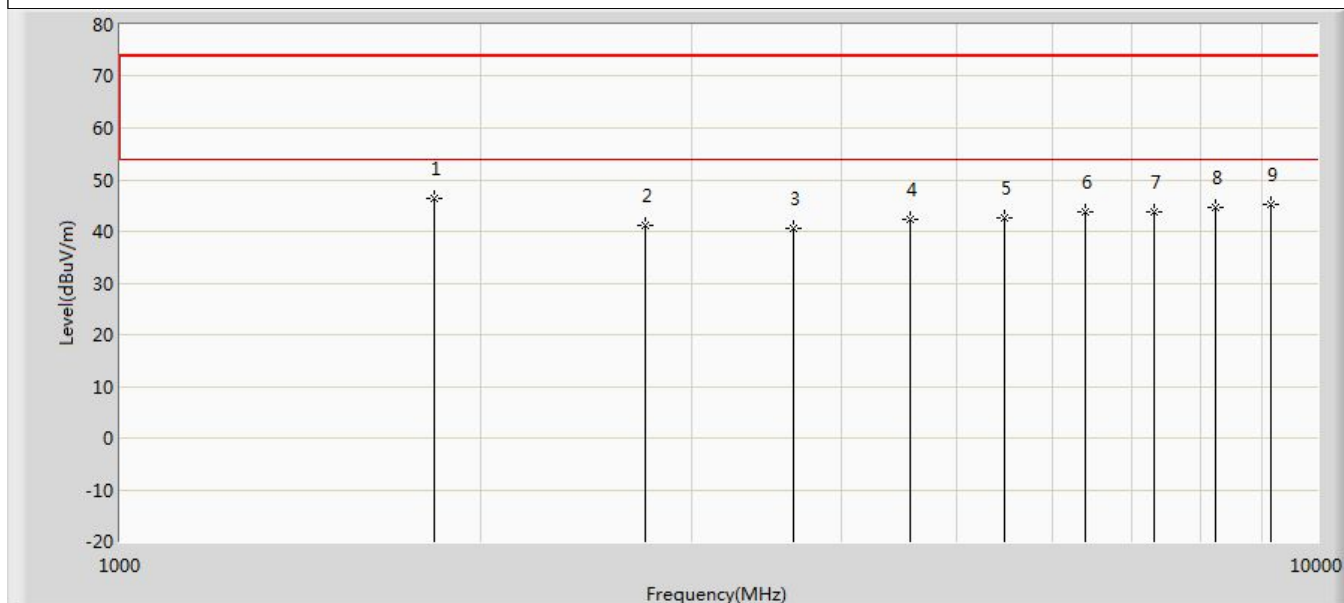
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	46.488	58.103	-27.512	74.000	-11.615	PK
2		2723.400	40.886	49.696	-33.114	74.000	-8.810	PK
3		3631.200	40.420	47.128	-33.580	74.000	-6.709	PK
4		4539.000	41.833	46.599	-32.167	74.000	-4.766	PK
5		5446.800	42.368	44.746	-31.632	74.000	-2.378	PK
6		6354.600	44.463	45.576	-29.537	74.000	-1.112	PK
7		7262.400	44.796	45.307	-29.204	74.000	-0.511	PK
8		8170.200	44.380	44.255	-29.620	74.000	0.125	PK
9		9078.000	44.856	44.653	-29.144	74.000	0.203	PK

Profile: 2540161R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



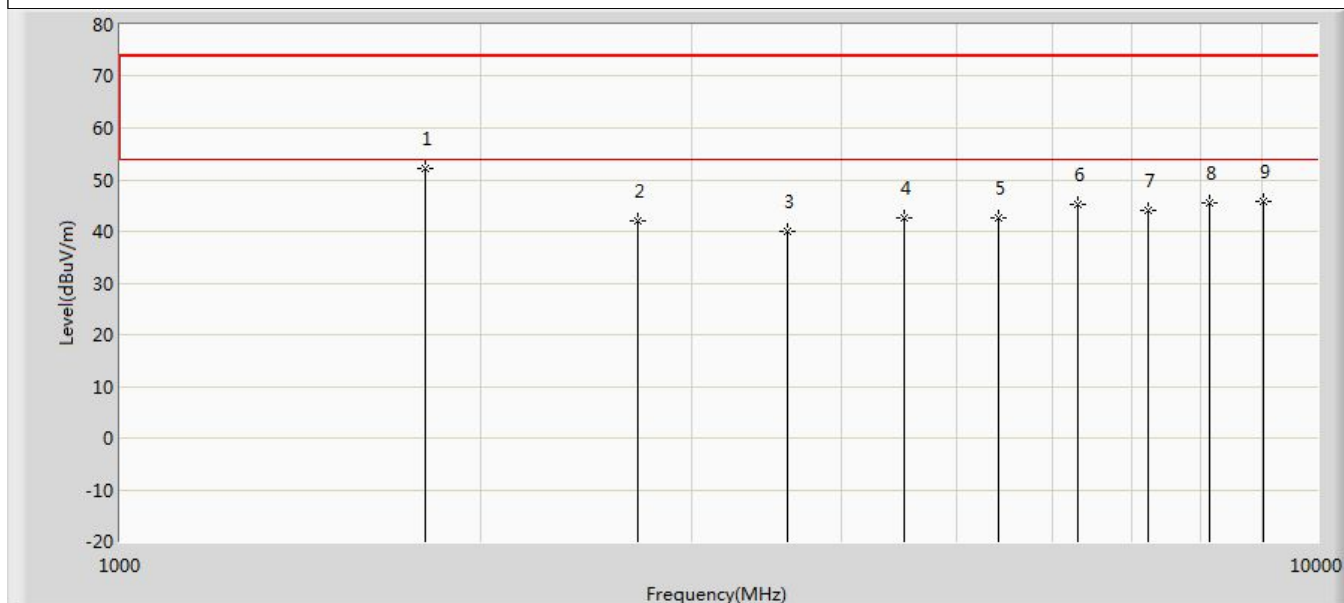
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	50.787	62.122	-23.213	74.000	-11.335	PK
2		2742.600	41.221	49.994	-32.779	74.000	-8.774	PK
3		3656.800	40.942	47.186	-33.058	74.000	-6.244	PK
4		4571.000	43.874	48.067	-30.126	74.000	-4.193	PK
5		5485.200	44.243	46.821	-29.757	74.000	-2.577	PK
6		6399.400	43.796	45.118	-30.204	74.000	-1.323	PK
7		7313.600	43.886	44.628	-30.114	74.000	-0.741	PK
8		8227.800	44.736	44.483	-29.264	74.000	0.253	PK
9		9142.000	45.504	44.773	-28.496	74.000	0.731	PK

Profile: 2540161R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/15 - 23:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



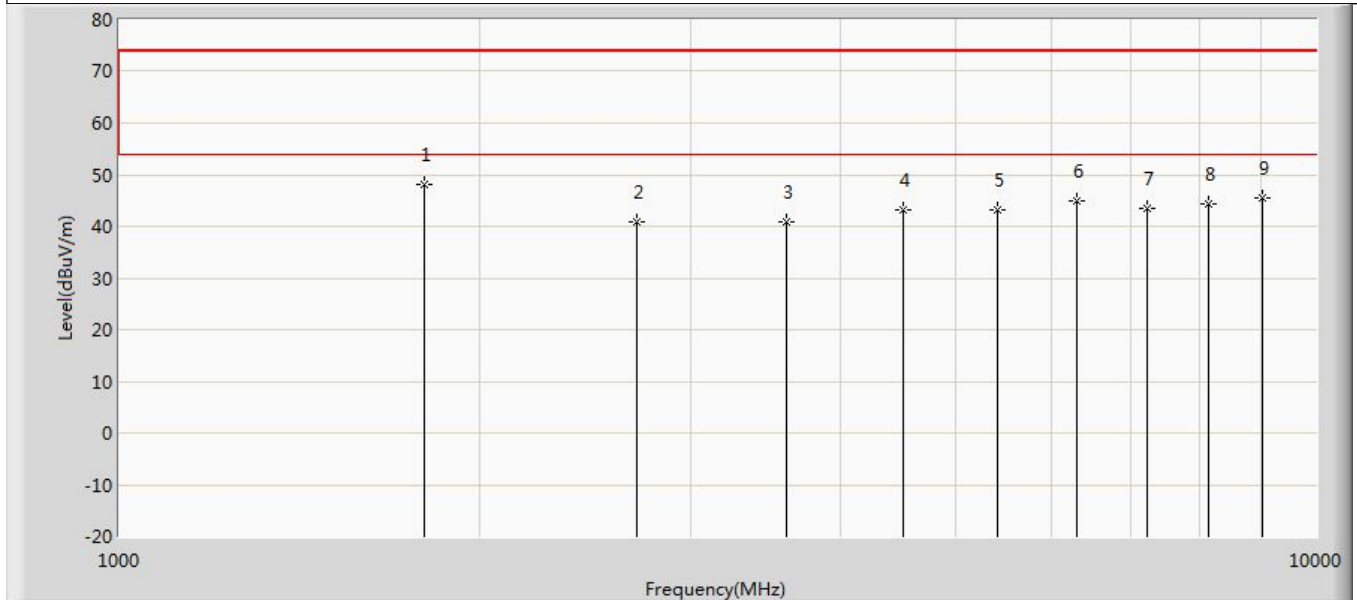
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	46.486	57.821	-27.514	74.000	-11.335	PK
2		2742.600	41.066	49.839	-32.934	74.000	-8.774	PK
3		3656.800	40.543	46.787	-33.457	74.000	-6.244	PK
4		4571.000	42.355	46.548	-31.645	74.000	-4.193	PK
5		5485.200	42.478	45.056	-31.522	74.000	-2.577	PK
6		6399.400	43.638	44.960	-30.362	74.000	-1.323	PK
7		7313.600	43.877	44.619	-30.123	74.000	-0.741	PK
8		8227.800	44.543	44.290	-29.457	74.000	0.253	PK
9		9142.000	45.168	44.437	-28.832	74.000	0.731	PK

Profile: 2540161R	Page No.: 49
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by SubG CSS	



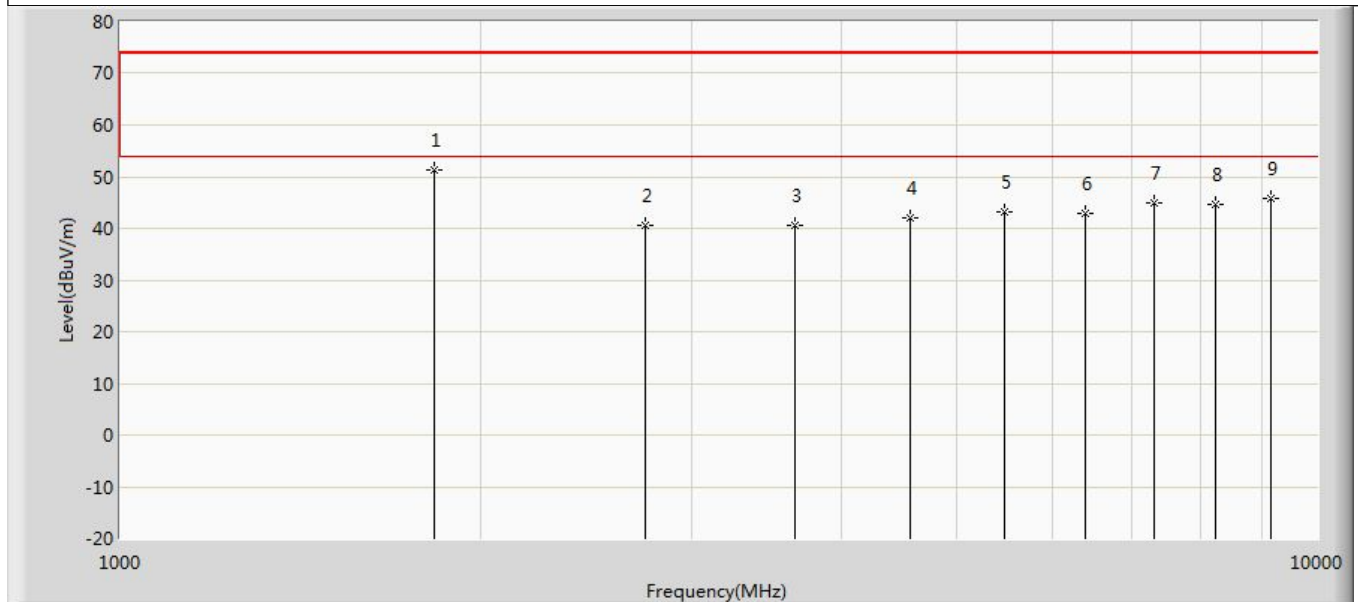
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	52.107	63.780	-21.893	74.000	-11.672	PK
2		2710.000	42.128	50.866	-31.872	74.000	-8.739	PK
3		3610.000	40.144	46.782	-33.856	74.000	-6.638	PK
4		4512.500	42.695	46.609	-31.305	74.000	-3.914	PK
5		5415.000	42.668	45.199	-31.332	74.000	-2.530	PK
6		6317.500	45.233	45.846	-28.767	74.000	-0.613	PK
7		7220.000	43.945	44.621	-30.055	74.000	-0.677	PK
8		8122.500	45.428	45.337	-28.572	74.000	0.091	PK
9		9025.000	45.877	45.411	-28.123	74.000	0.466	PK

Profile: 2540161R	Page No.: 50
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by SubG CSS	



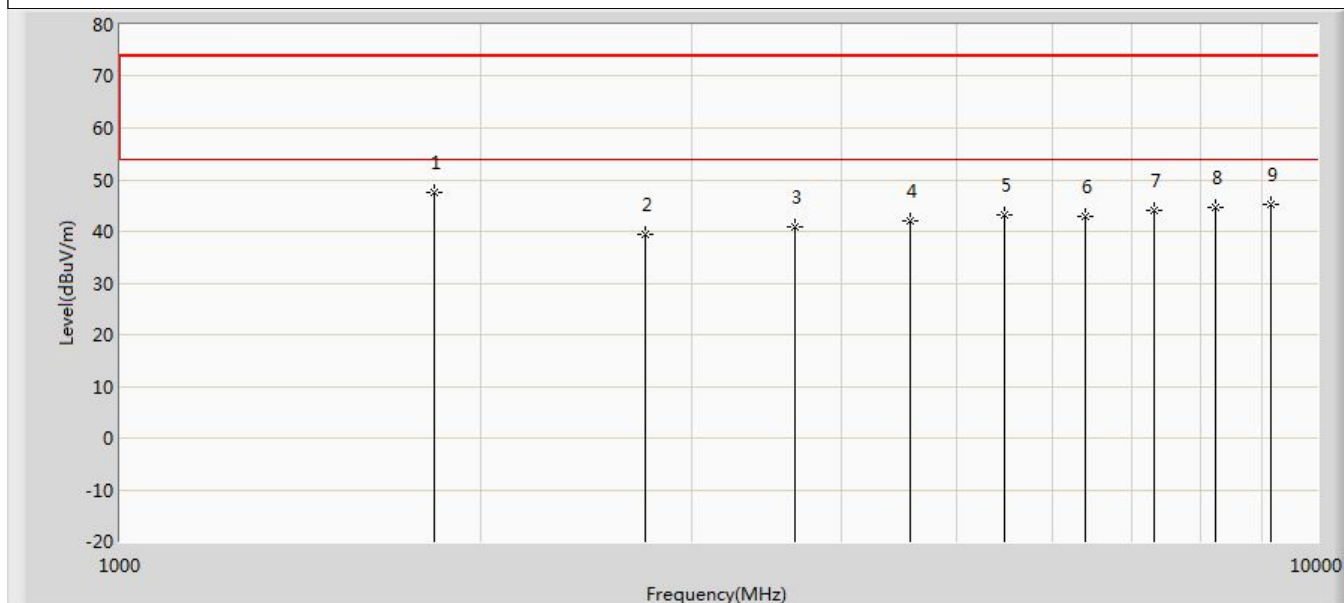
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	48.068	59.741	-25.932	74.000	-11.672	PK
2		2707.500	41.012	49.746	-32.988	74.000	-8.734	PK
3		3610.000	40.741	47.379	-33.259	74.000	-6.638	PK
4		4512.500	43.058	46.972	-30.942	74.000	-3.914	PK
5		5415.000	43.150	45.681	-30.850	74.000	-2.530	PK
6		6317.500	44.987	45.600	-29.013	74.000	-0.613	PK
7		7220.000	43.595	44.271	-30.405	74.000	-0.677	PK
8		8122.500	44.468	44.377	-29.532	74.000	0.091	PK
9		9025.000	45.459	44.993	-28.541	74.000	0.466	PK

Profile: 2540161R	Page No.: 51
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by SubG CSS	



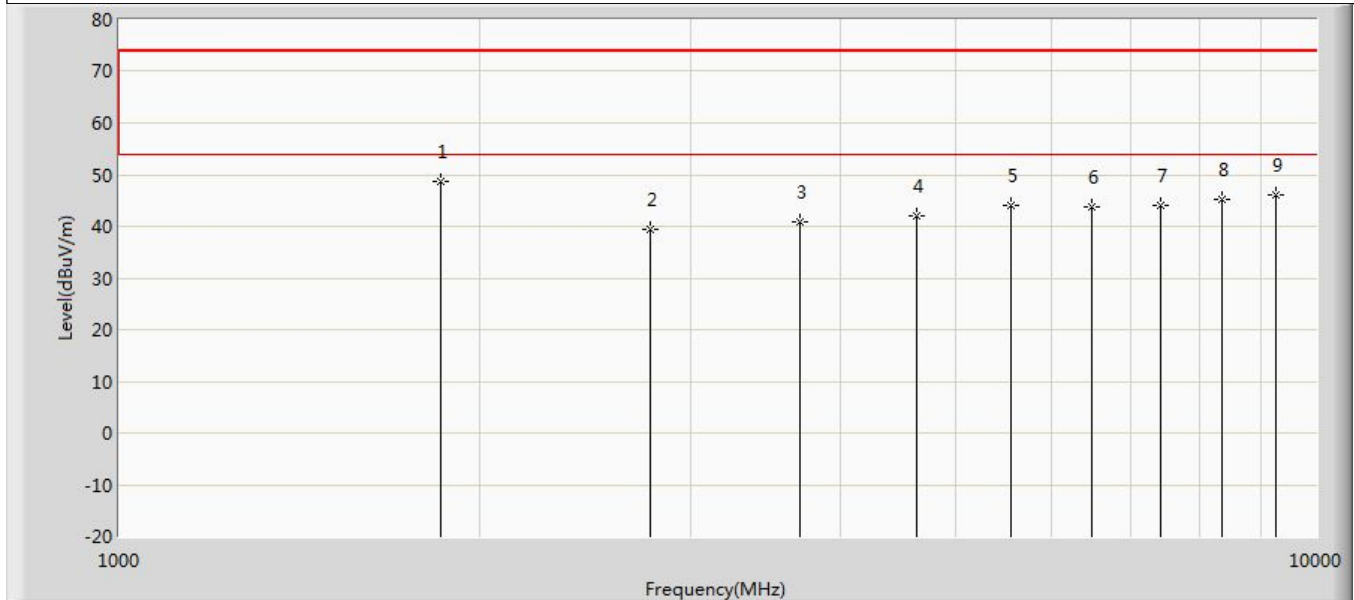
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	51.348	62.683	-22.652	74.000	-11.335	PK
2		2743.500	40.548	49.307	-33.452	74.000	-8.759	PK
3		3658.000	40.476	46.738	-33.524	74.000	-6.262	PK
4		4572.500	42.127	46.325	-31.873	74.000	-4.198	PK
5		5487.000	43.164	45.737	-30.836	74.000	-2.574	PK
6		6401.500	42.951	44.342	-31.049	74.000	-1.391	PK
7		7316.000	45.056	45.837	-28.944	74.000	-0.781	PK
8		8230.500	44.665	44.310	-29.335	74.000	0.354	PK
9		9145.000	45.670	44.993	-28.330	74.000	0.677	PK

Profile: 2540161R	Page No.: 52
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by SubG CSS	



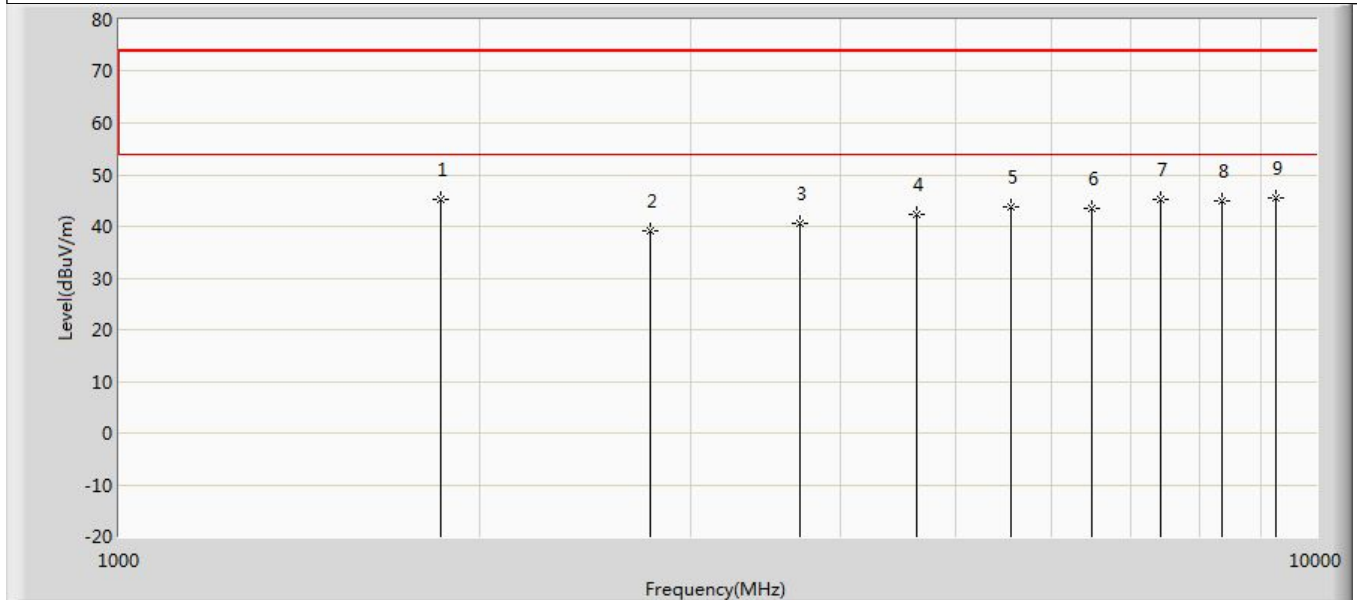
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	47.418	58.753	-26.582	74.000	-11.335	PK
2		2743.500	39.527	48.286	-34.473	74.000	-8.759	PK
3		3658.000	40.813	47.075	-33.187	74.000	-6.262	PK
4		4572.500	41.904	46.102	-32.096	74.000	-4.198	PK
5		5487.000	43.270	45.843	-30.730	74.000	-2.574	PK
6		6401.500	42.901	44.292	-31.099	74.000	-1.391	PK
7		7316.000	43.998	44.779	-30.002	74.000	-0.781	PK
8		8230.500	44.696	44.341	-29.304	74.000	0.354	PK
9		9145.000	45.329	44.652	-28.671	74.000	0.677	PK

Profile: 2540161R	Page No.: 53
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by SubG CSS	



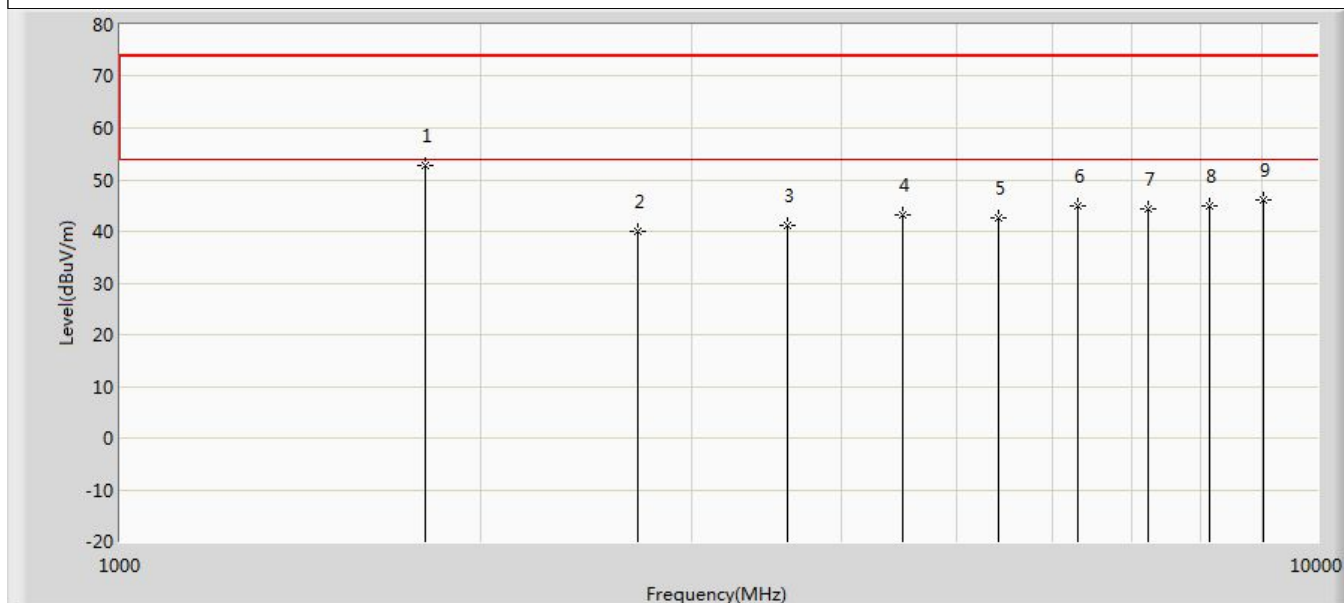
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	48.564	59.692	-25.436	74.000	-11.128	PK
2		2779.500	39.545	48.412	-34.455	74.000	-8.867	PK
3		3706.000	40.762	47.111	-33.238	74.000	-6.349	PK
4		4632.500	41.951	46.206	-32.049	74.000	-4.256	PK
5		5559.000	43.981	46.197	-30.019	74.000	-2.215	PK
6		6485.500	43.672	44.599	-30.328	74.000	-0.927	PK
7		7412.000	44.133	44.613	-29.867	74.000	-0.480	PK
8		8338.500	45.168	44.533	-28.832	74.000	0.635	PK
9		9265.000	46.017	44.939	-27.983	74.000	1.078	PK

Profile: 2540161R	Page No.: 54
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by SubG CSS	



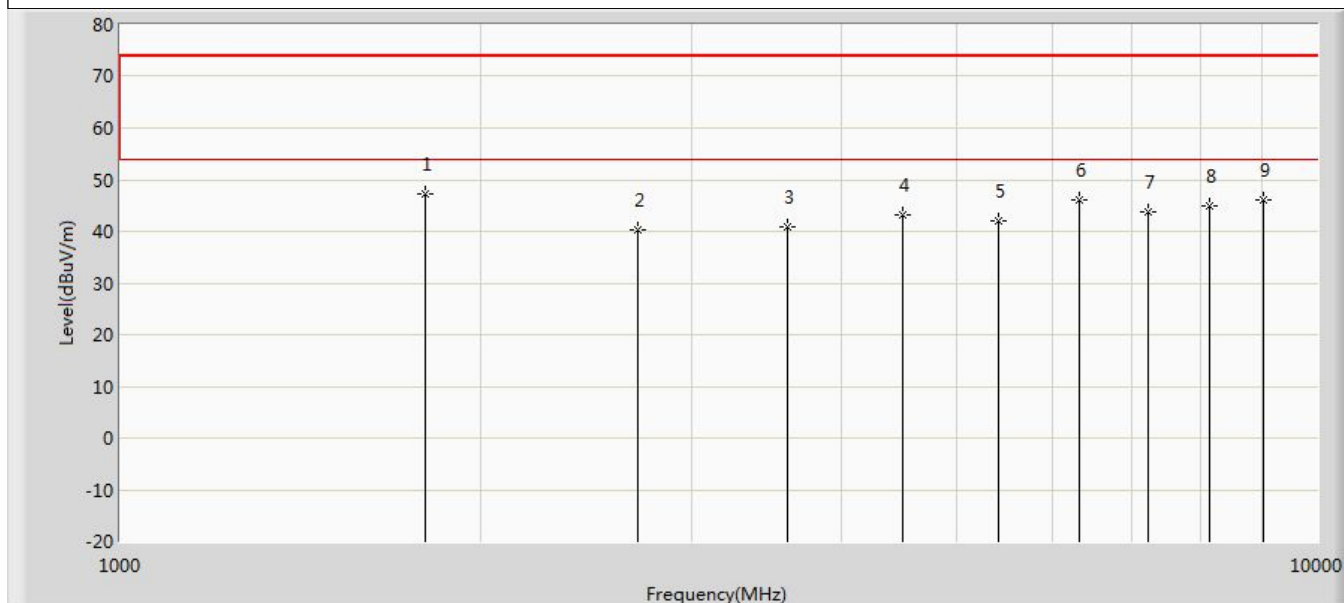
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1855.000	45.268	56.396	-28.732	74.000	-11.128	PK
2		2779.500	39.183	48.050	-34.817	74.000	-8.867	PK
3		3706.000	40.691	47.040	-33.309	74.000	-6.349	PK
4		4632.500	42.436	46.691	-31.564	74.000	-4.256	PK
5		5559.000	43.753	45.969	-30.247	74.000	-2.215	PK
6		6485.500	43.497	44.424	-30.503	74.000	-0.927	PK
7		7412.000	45.142	45.622	-28.858	74.000	-0.480	PK
8		8338.500	45.044	44.409	-28.956	74.000	0.635	PK
9	*	9265.000	45.420	44.342	-28.580	74.000	1.078	PK

Profile: 2540161R	Page No.: 55
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by SubG FSK	



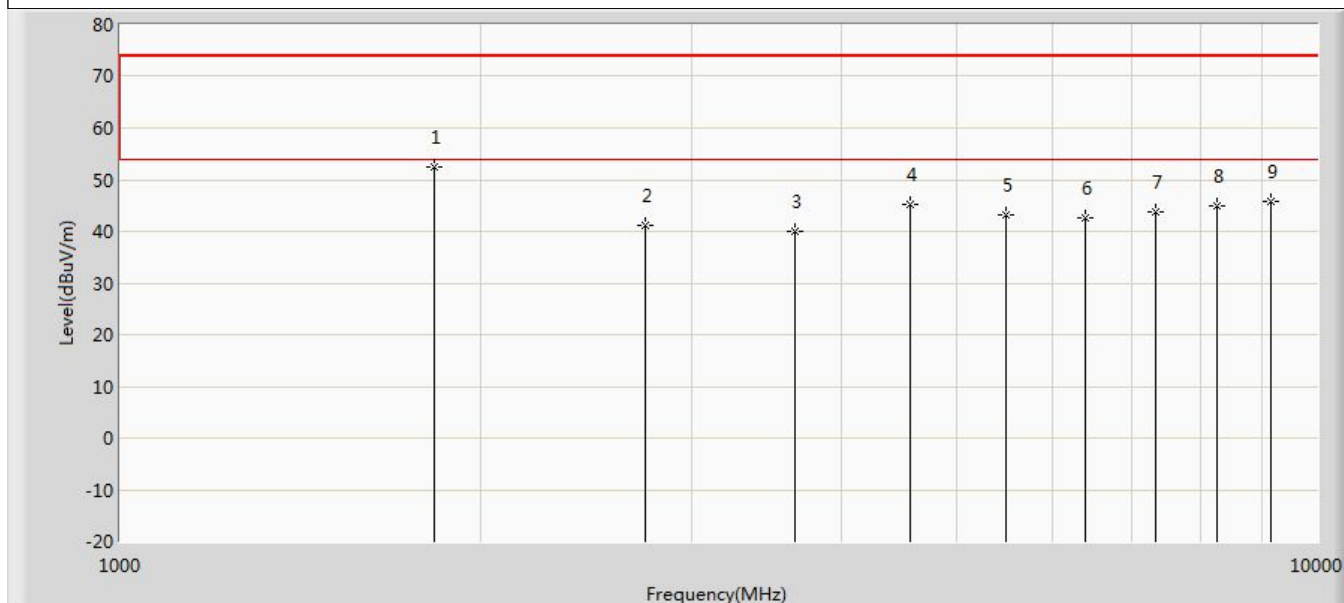
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	52.864	64.537	-21.136	74.000	-11.672	PK
2		2706.600	39.942	48.674	-34.058	74.000	-8.732	PK
3		3608.800	41.079	47.740	-32.921	74.000	-6.661	PK
4		4511.000	43.306	47.282	-30.694	74.000	-3.976	PK
5		5413.200	42.623	45.179	-31.377	74.000	-2.556	PK
6		6315.400	44.855	45.531	-29.145	74.000	-0.676	PK
7		7217.600	44.230	44.854	-29.770	74.000	-0.624	PK
8		8119.800	44.868	44.734	-29.132	74.000	0.134	PK
9		9022.000	46.119	45.539	-27.881	74.000	0.580	PK

Profile: 2540161R	Page No.: 56
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by SubG FSK	



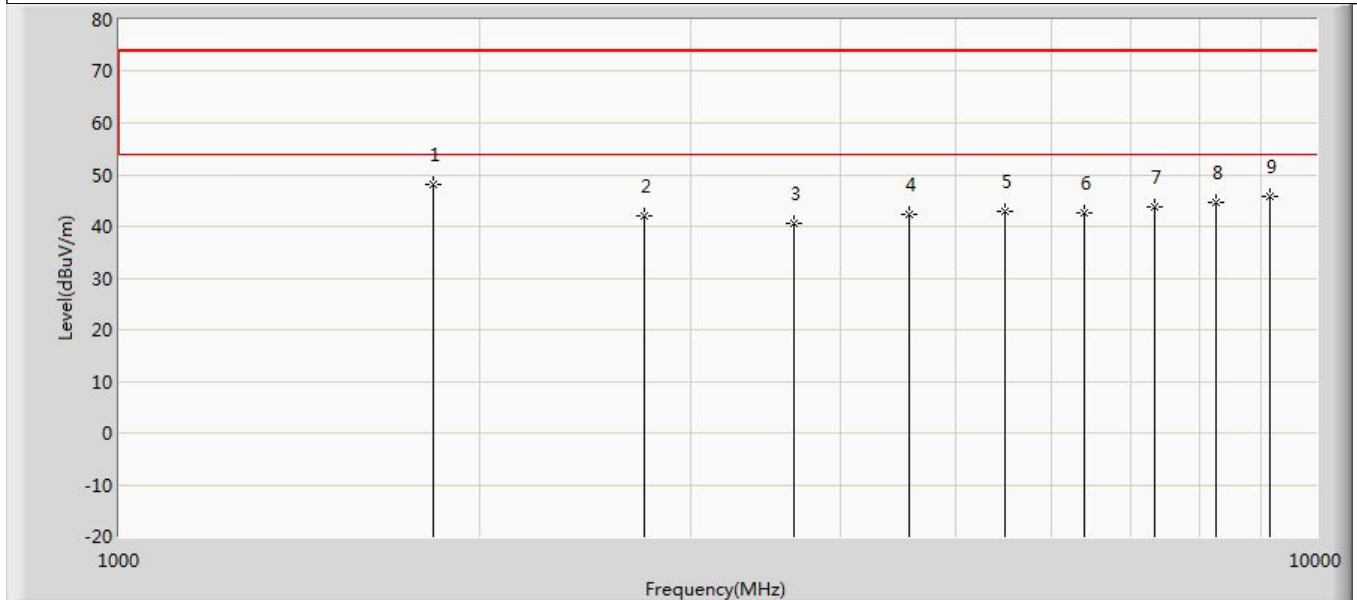
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	47.366	59.039	-26.634	74.000	-11.672	PK
2		2706.600	40.196	48.928	-33.804	74.000	-8.732	PK
3		3608.800	40.841	47.502	-33.159	74.000	-6.661	PK
4		4511.000	43.322	47.298	-30.678	74.000	-3.976	PK
5		5413.200	42.152	44.708	-31.848	74.000	-2.556	PK
6		6319.000	46.014	46.582	-27.986	74.000	-0.569	PK
7		7217.600	43.787	44.411	-30.213	74.000	-0.624	PK
8		8119.800	44.793	44.659	-29.207	74.000	0.134	PK
9		9022.000	46.151	45.571	-27.849	74.000	0.580	PK

Profile: 2540161R	Page No.: 57
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by SubG FSK	



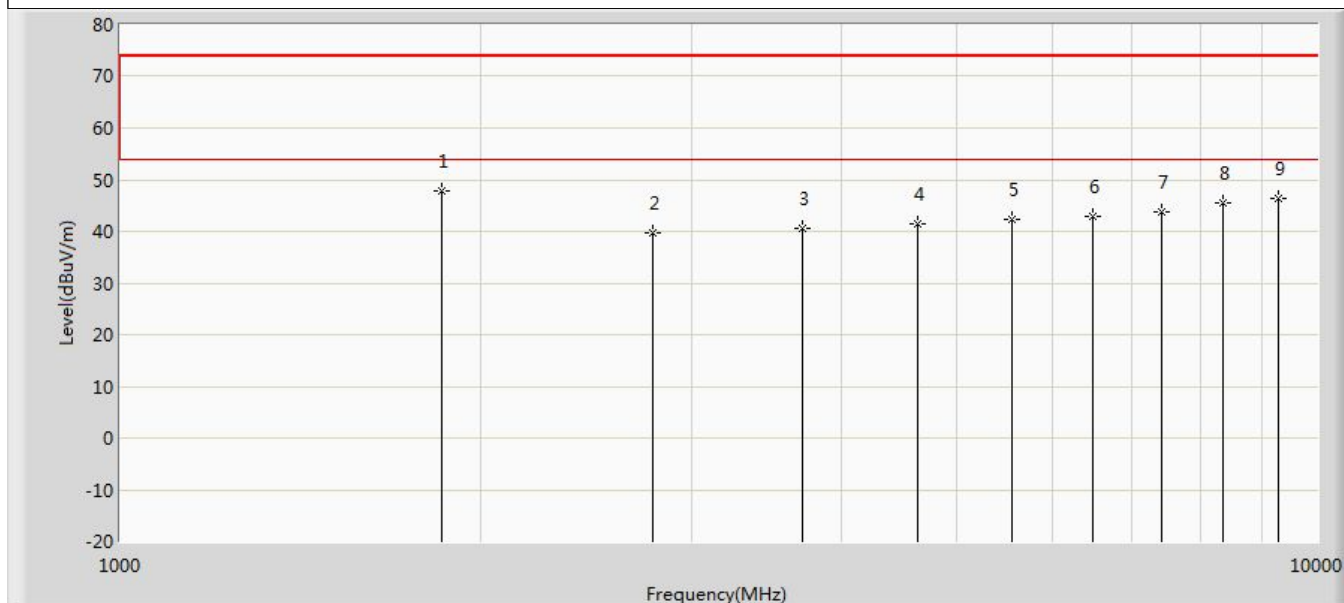
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	52.415	63.750	-21.585	74.000	-11.335	PK
2		2745.000	41.042	49.778	-32.958	74.000	-8.736	PK
3		3660.000	40.104	46.398	-33.896	74.000	-6.294	PK
4		4573.000	45.336	49.535	-28.664	74.000	-4.200	PK
5		5490.000	43.152	45.770	-30.848	74.000	-2.618	PK
6		6405.000	42.740	44.247	-31.260	74.000	-1.507	PK
7		7320.000	43.712	44.559	-30.288	74.000	-0.847	PK
8		8235.000	44.891	44.367	-29.109	74.000	0.524	PK
9		9150.000	45.757	45.178	-28.243	74.000	0.578	PK

Profile: 2540161R	Page No.: 58
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by SubG FSK	



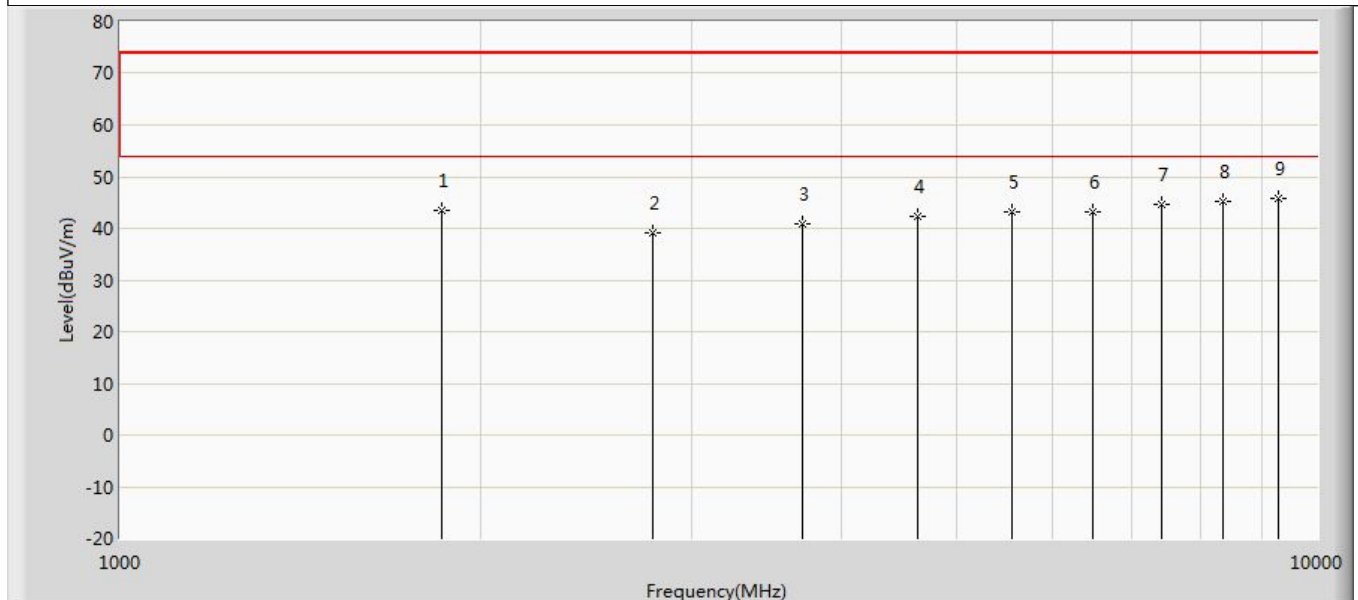
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	48.102	59.437	-25.898	74.000	-11.335	PK
2		2746.000	42.072	50.792	-31.928	74.000	-8.721	PK
3		3660.000	40.441	46.735	-33.559	74.000	-6.294	PK
4		4575.000	42.375	46.581	-31.625	74.000	-4.206	PK
5		5490.000	42.887	45.505	-31.113	74.000	-2.618	PK
6		6405.000	42.612	44.119	-31.388	74.000	-1.507	PK
7		7320.000	43.738	44.585	-30.262	74.000	-0.847	PK
8		8235.000	44.684	44.160	-29.316	74.000	0.524	PK
9		9150.000	45.911	45.332	-28.089	74.000	0.578	PK

Profile: 2540161R	Page No.: 59
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	47.792	58.920	-26.208	74.000	-11.128	PK
2		2783.400	39.731	48.689	-34.269	74.000	-8.957	PK
3		3711.200	40.654	46.911	-33.346	74.000	-6.257	PK
4		4639.000	41.405	45.627	-32.595	74.000	-4.222	PK
5		5566.800	42.365	44.788	-31.635	74.000	-2.423	PK
6		6494.600	42.834	43.738	-31.166	74.000	-0.905	PK
7		7422.400	43.769	44.167	-30.231	74.000	-0.398	PK
8		8350.200	45.633	45.014	-28.367	74.000	0.619	PK
9		9278.000	46.285	44.707	-27.715	74.000	1.577	PK

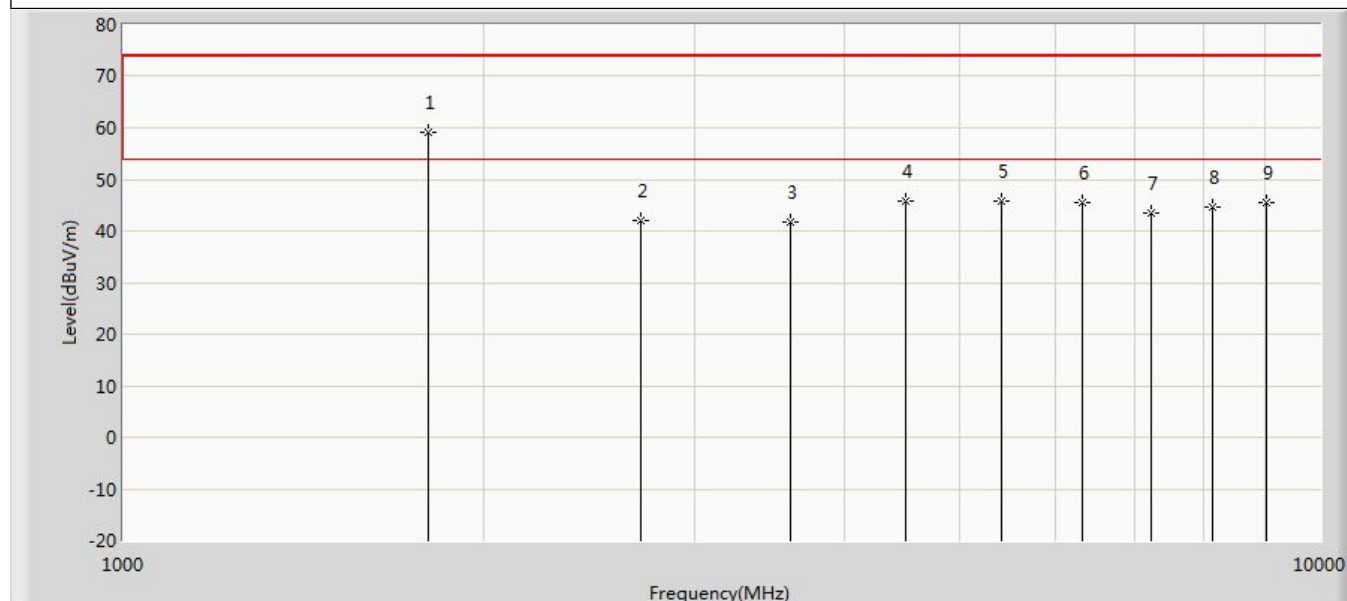
Profile: 2540161R	Page No.: 60
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1855.000	43.598	54.726	-30.402	74.000	-11.128	PK
2		2783.400	39.066	48.024	-34.934	74.000	-8.957	PK
3		3711.200	40.874	47.131	-33.126	74.000	-6.257	PK
4		4639.000	42.339	46.561	-31.661	74.000	-4.222	PK
5		5566.800	43.315	45.738	-30.685	74.000	-2.423	PK
6		6494.600	43.083	43.987	-30.917	74.000	-0.905	PK
7		7422.400	44.679	45.077	-29.321	74.000	-0.398	PK
8		8350.200	45.187	44.568	-28.813	74.000	0.619	PK
9	*	9278.000	45.825	44.247	-28.175	74.000	1.577	PK

2195835-3 (cable length 150mm):

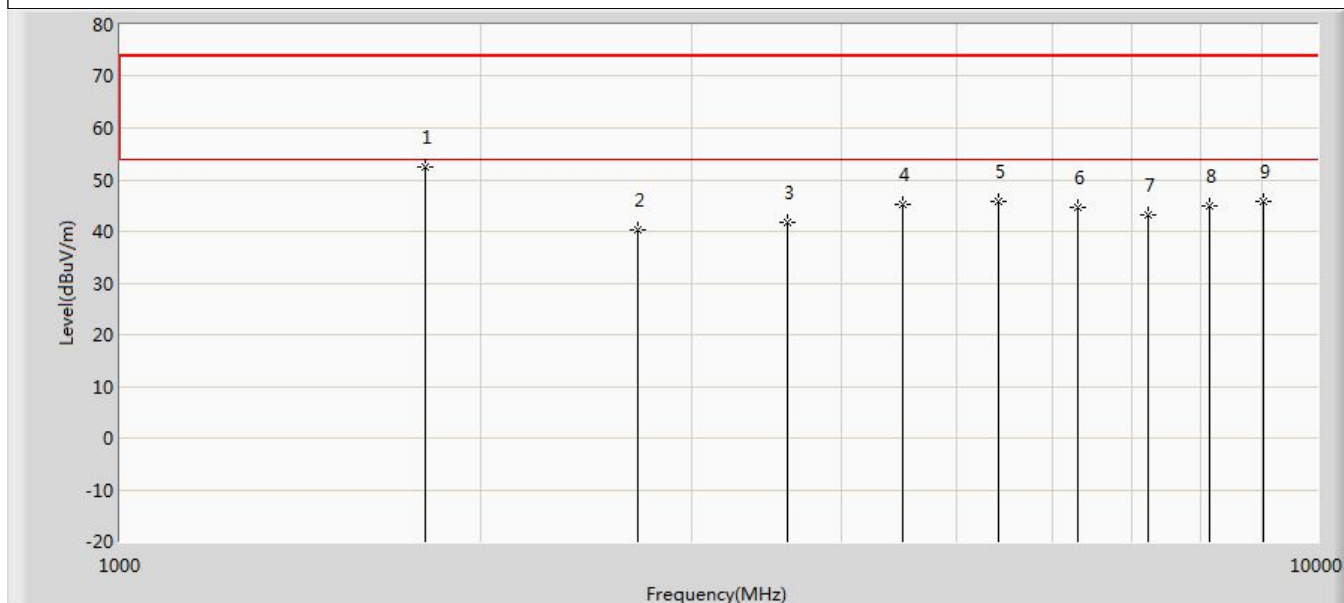
Profile: 2540161R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1: Transmit at 902.3MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	59.000	70.673	-59.000	118.000	-11.672	PK
2		2710.000	41.892	50.630	-76.108	118.000	-8.739	PK
3		3609.200	41.719	48.372	-32.281	74.000	-6.654	PK
4		4510.000	45.864	49.880	-28.136	74.000	-4.016	PK
5		5410.000	45.886	48.487	-28.114	74.000	-2.601	PK
6		6319.000	45.412	45.980	-72.588	118.000	-0.569	PK
7		7218.400	43.555	44.197	-74.445	118.000	-0.642	PK
8		8120.700	44.542	44.422	-29.458	74.000	0.120	PK
9		9023.000	45.453	44.933	-28.547	74.000	0.519	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμV/m)

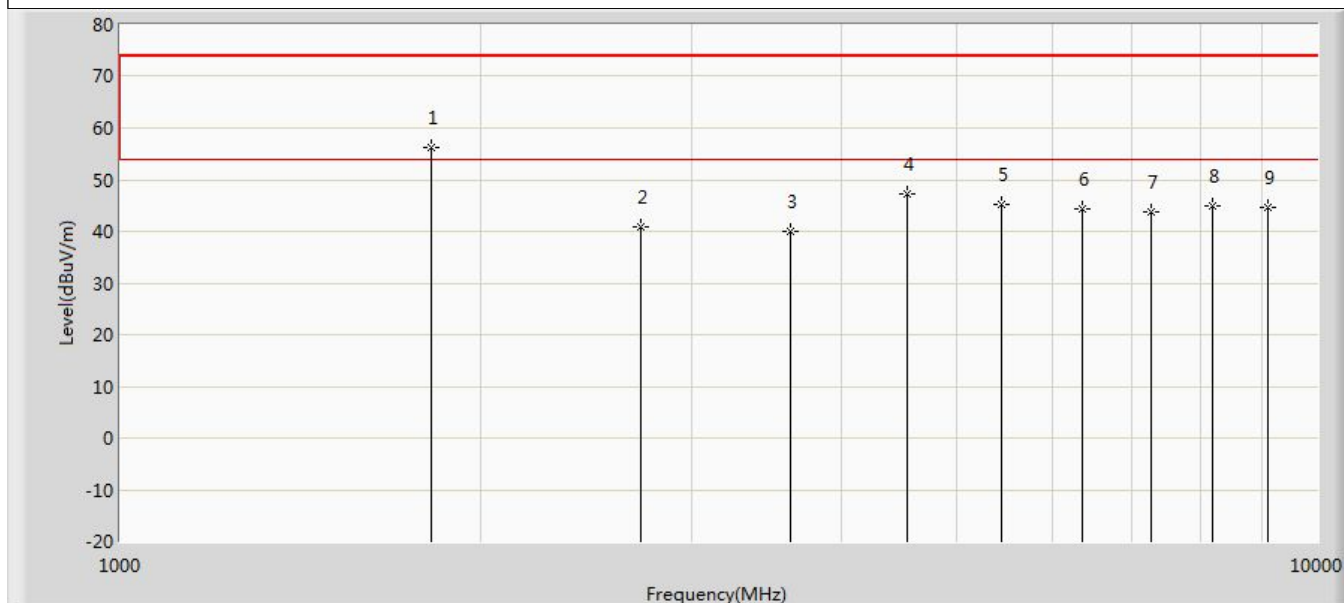
Profile: 2540161R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 902.3MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	52.332	64.005	-65.668	118.000	-11.672	PK
2		2706.900	40.285	49.017	-77.715	118.000	-8.732	PK
3		3609.200	41.628	48.281	-32.372	74.000	-6.654	PK
4		4510.000	45.296	49.312	-28.704	74.000	-4.016	PK
5		5410.000	45.875	48.476	-28.125	74.000	-2.601	PK
6		6316.100	44.736	45.391	-73.264	118.000	-0.656	PK
7		7218.400	43.129	43.771	-74.871	118.000	-0.642	PK
8		8120.700	44.924	44.804	-29.076	74.000	0.120	PK
9		9023.000	45.679	45.159	-28.321	74.000	0.519	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

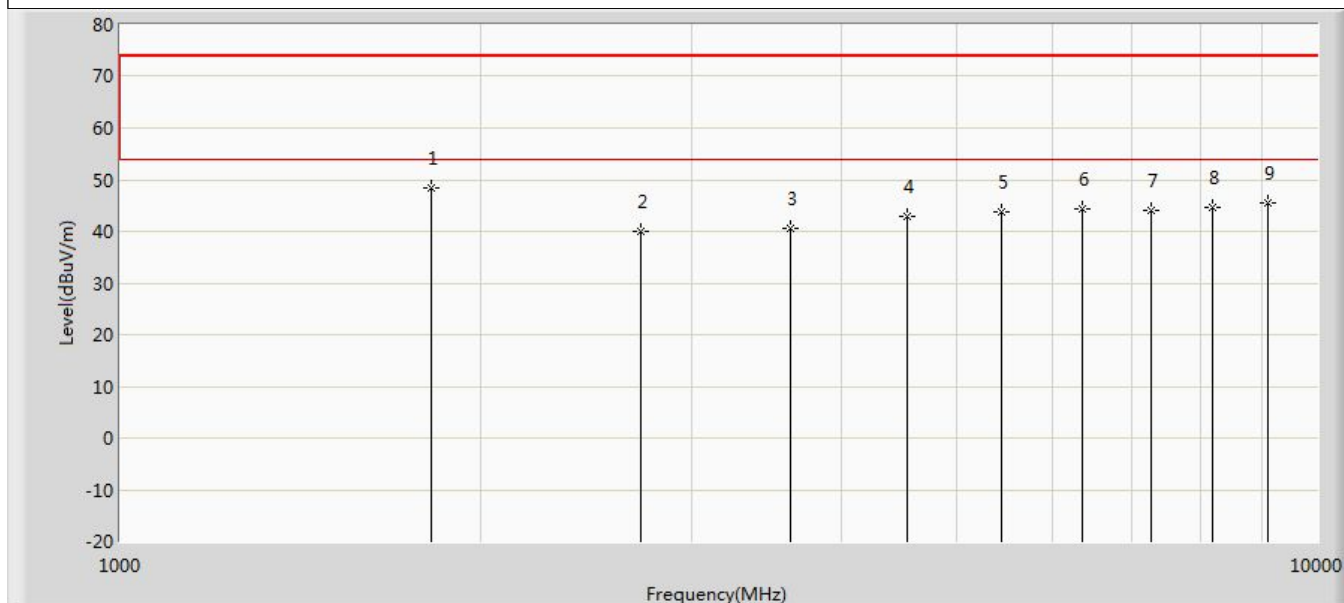
Profile: 2540161R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	56.318	67.933	-61.682	118.000	-11.615	PK
2		2725.500	40.907	49.736	-77.093	118.000	-8.829	PK
3		3634.000	40.030	46.786	-33.970	74.000	-6.756	PK
4		4546.000	47.136	51.989	-26.864	74.000	-4.852	PK
5		5455.000	45.118	47.846	-28.882	74.000	-2.727	PK
6		6359.500	44.225	45.280	-73.775	118.000	-1.055	PK
7		7268.000	43.900	44.274	-74.100	118.000	-0.375	PK
8		8176.500	44.966	44.850	-29.034	74.000	0.116	PK
9		9085.000	44.768	44.723	-29.232	74.000	0.044	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

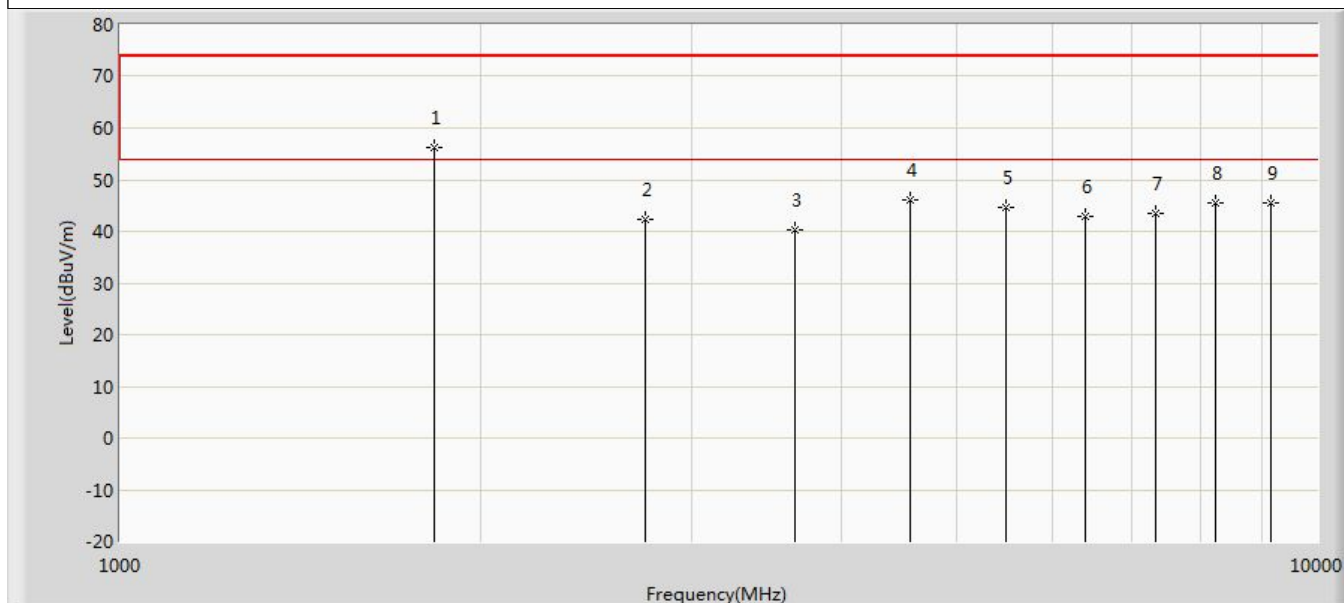
Profile: 2540161R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	48.340	59.955	-69.660	118.000	-11.615	PK
2		2725.500	39.929	48.758	-78.071	118.000	-8.829	PK
3		3634.000	40.638	47.394	-33.362	74.000	-6.756	PK
4		4542.500	43.040	47.849	-30.960	74.000	-4.809	PK
5		5451.000	43.682	46.268	-30.318	74.000	-2.587	PK
6		6359.500	44.410	45.465	-73.590	118.000	-1.055	PK
7		7268.000	44.095	44.469	-73.905	118.000	-0.375	PK
8		8176.500	44.627	44.511	-29.373	74.000	0.116	PK
9		9085.000	45.642	45.597	-28.358	74.000	0.044	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

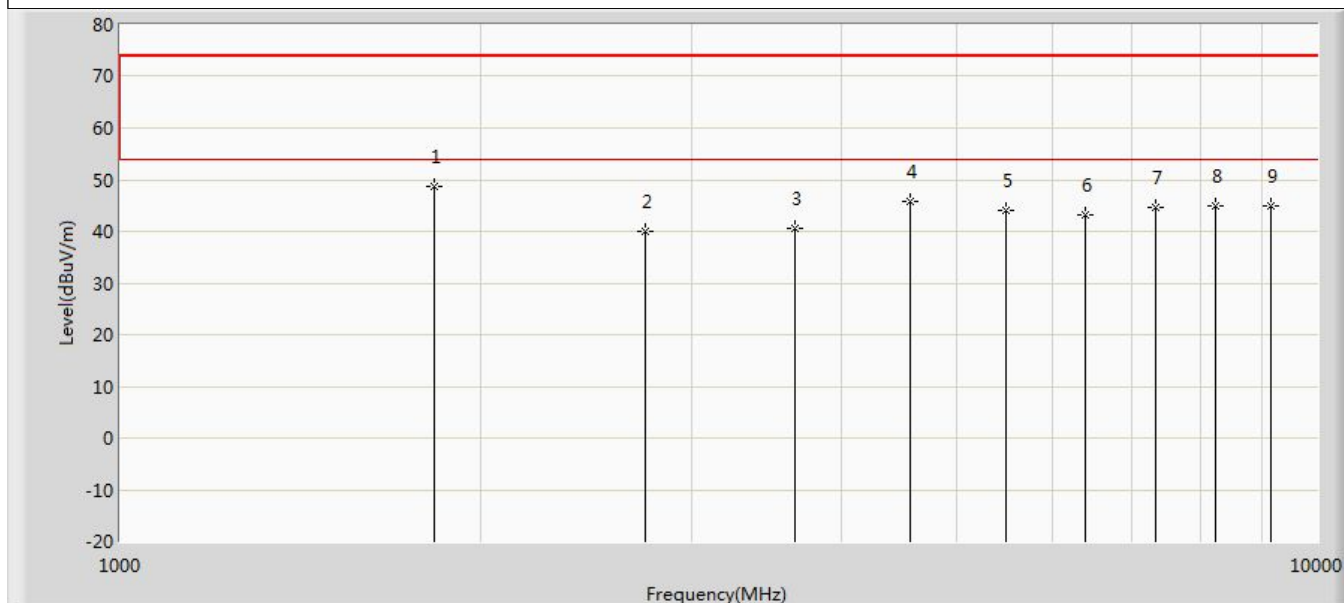
Profile: 2540161R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.159	67.494	-61.841	118.000	-11.335	PK
2		2746.000	42.340	51.060	-75.660	118.000	-8.721	PK
3		3659.600	40.358	46.645	-33.642	74.000	-6.287	PK
4		4573.000	45.992	50.191	-28.008	74.000	-4.200	PK
5		5491.000	44.517	47.158	-29.483	74.000	-2.641	PK
6		6404.300	43.041	44.525	-74.959	118.000	-1.484	PK
7		7319.200	43.445	44.279	-74.555	118.000	-0.833	PK
8		8234.100	45.585	45.095	-28.415	74.000	0.490	PK
9		9149.000	45.544	44.946	-28.456	74.000	0.598	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

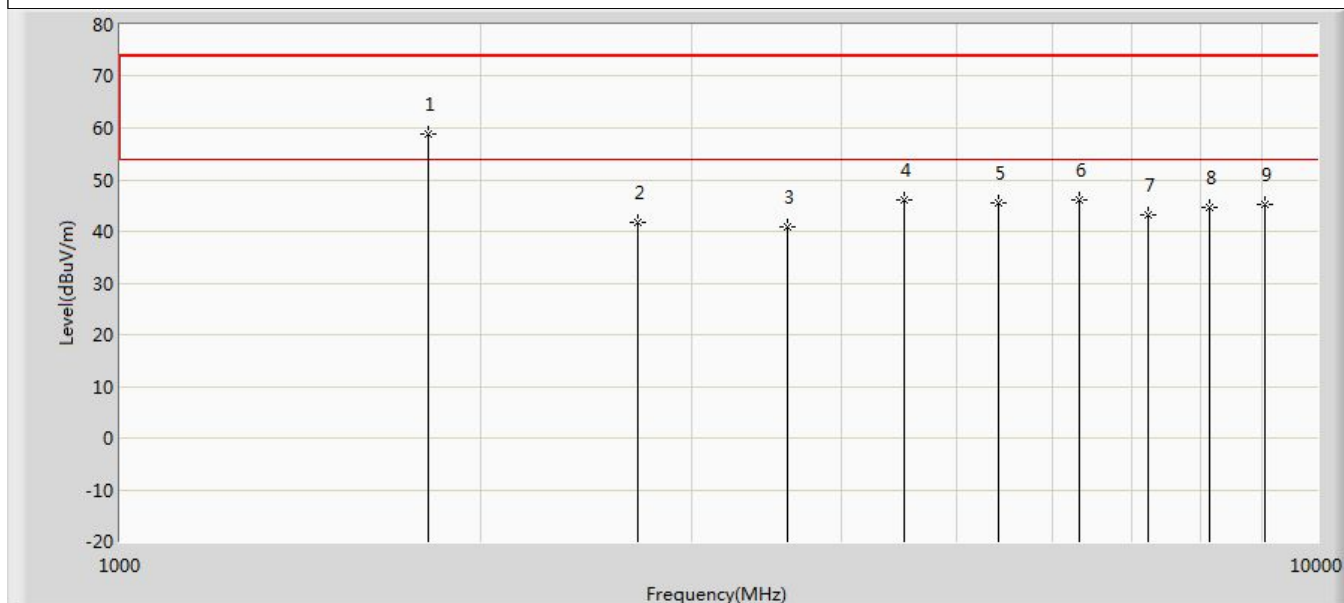
Profile: 2540161R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	48.654	59.989	-69.346	118.000	-11.335	PK
2		2744.700	40.045	48.785	-77.955	118.000	-8.740	PK
3		3659.600	40.592	46.879	-33.408	74.000	-6.287	PK
4		4573.000	45.717	49.916	-28.283	74.000	-4.200	PK
5		5489.400	43.963	46.567	-30.037	74.000	-2.604	PK
6		6404.300	43.116	44.600	-74.884	118.000	-1.484	PK
7		7319.200	44.526	45.360	-73.474	118.000	-0.833	PK
8		8234.100	45.041	44.551	-28.959	74.000	0.490	PK
9		9149.000	44.837	44.239	-29.163	74.000	0.598	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

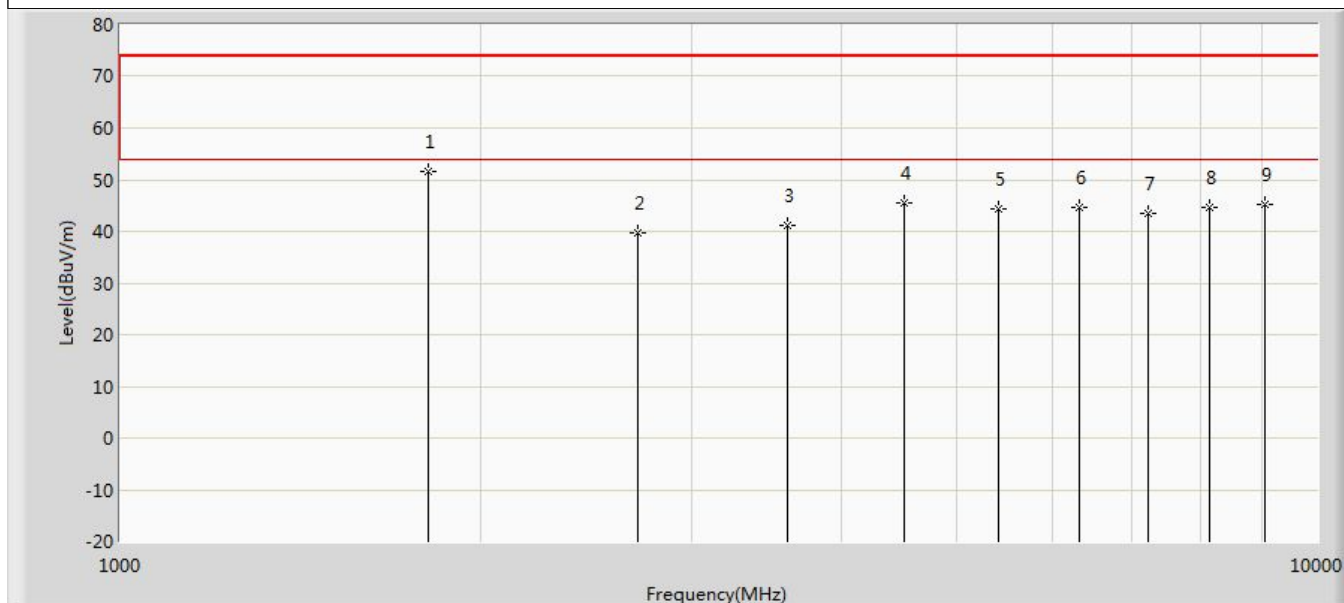
Profile: 2540161R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	58.815	70.509	-59.185	118.000	-11.694	PK
2		2710.000	41.847	50.585	-76.153	118.000	-8.739	PK
3		3612.000	40.870	47.470	-33.130	74.000	-6.600	PK
4		4519.000	46.108	49.756	-27.892	74.000	-3.648	PK
5		5419.000	45.394	47.868	-28.606	74.000	-2.474	PK
6		6319.000	46.050	46.618	-71.950	118.000	-0.569	PK
7		7224.000	43.123	43.768	-74.877	118.000	-0.646	PK
8		8127.000	44.675	44.688	-29.325	74.000	-0.014	PK
9		9030.000	45.362	44.861	-28.638	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

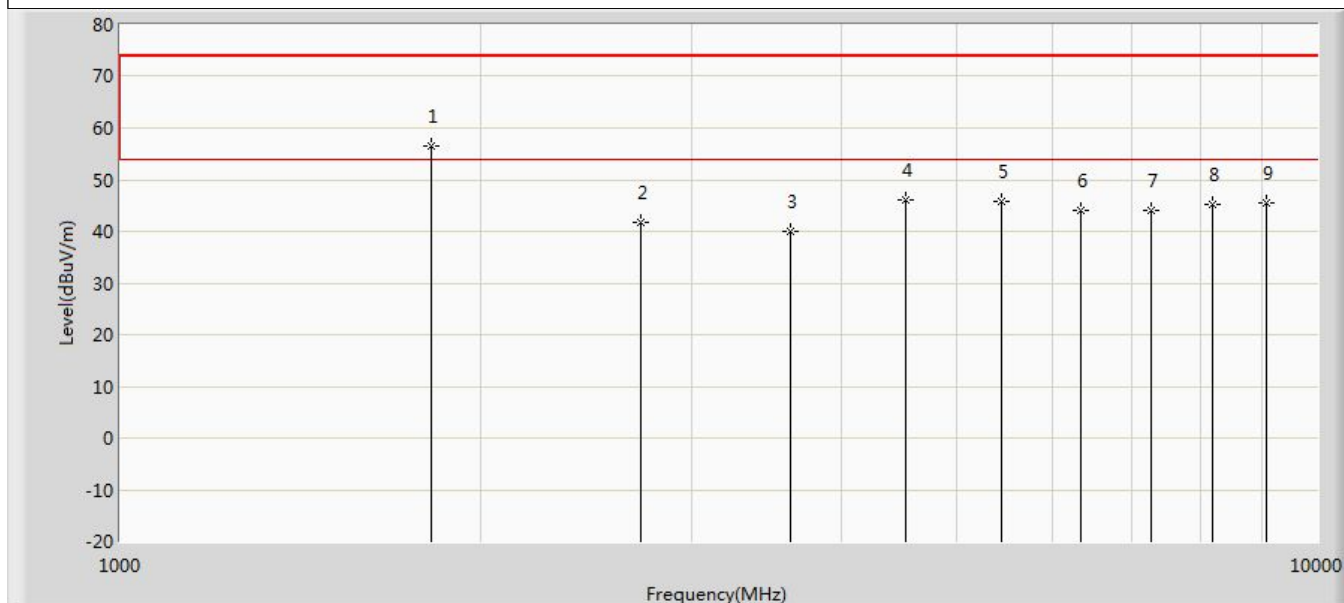
Profile: 2540161R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	51.654	63.348	-66.346	118.000	-11.694	PK
2		2709.000	39.786	48.522	-78.214	118.000	-8.737	PK
3		3612.000	41.124	47.724	-32.876	74.000	-6.600	PK
4		4519.000	45.393	49.041	-28.607	74.000	-3.648	PK
5		5418.000	44.338	46.826	-29.662	74.000	-2.489	PK
6		6321.000	44.724	45.232	-73.276	118.000	-0.508	PK
7		7224.000	43.438	44.083	-74.562	118.000	-0.646	PK
8		8127.000	44.674	44.687	-29.326	74.000	-0.014	PK
9		9030.000	45.300	44.799	-28.700	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

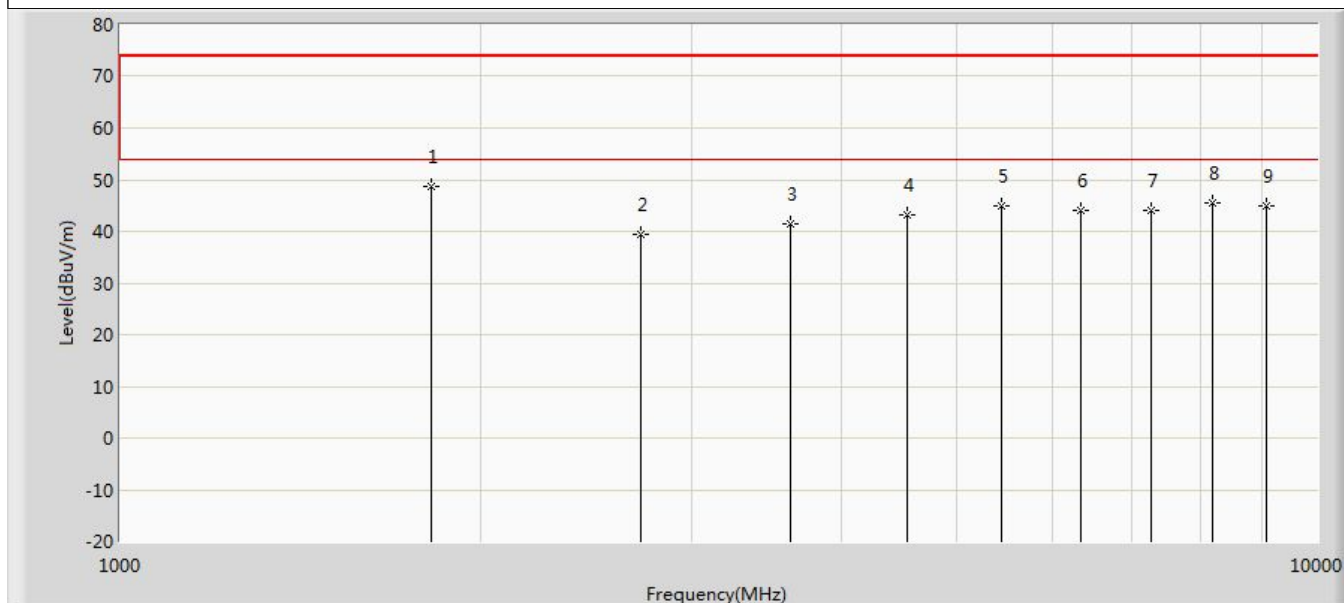
Profile: 2540161R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	56.398	68.013	-61.602	118.000	-11.615	PK
2		2723.400	41.829	50.639	-76.171	118.000	-8.810	PK
3		3631.200	39.947	46.655	-34.053	74.000	-6.709	PK
4		4537.000	46.005	50.746	-27.995	74.000	-4.741	PK
5		5446.000	45.742	48.080	-28.258	74.000	-2.338	PK
6		6354.600	43.921	45.034	-74.079	118.000	-1.112	PK
7		7262.400	44.179	44.690	-73.821	118.000	-0.511	PK
8		8170.200	45.115	44.990	-28.885	74.000	0.125	PK
9		9078.000	45.423	45.220	-28.577	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

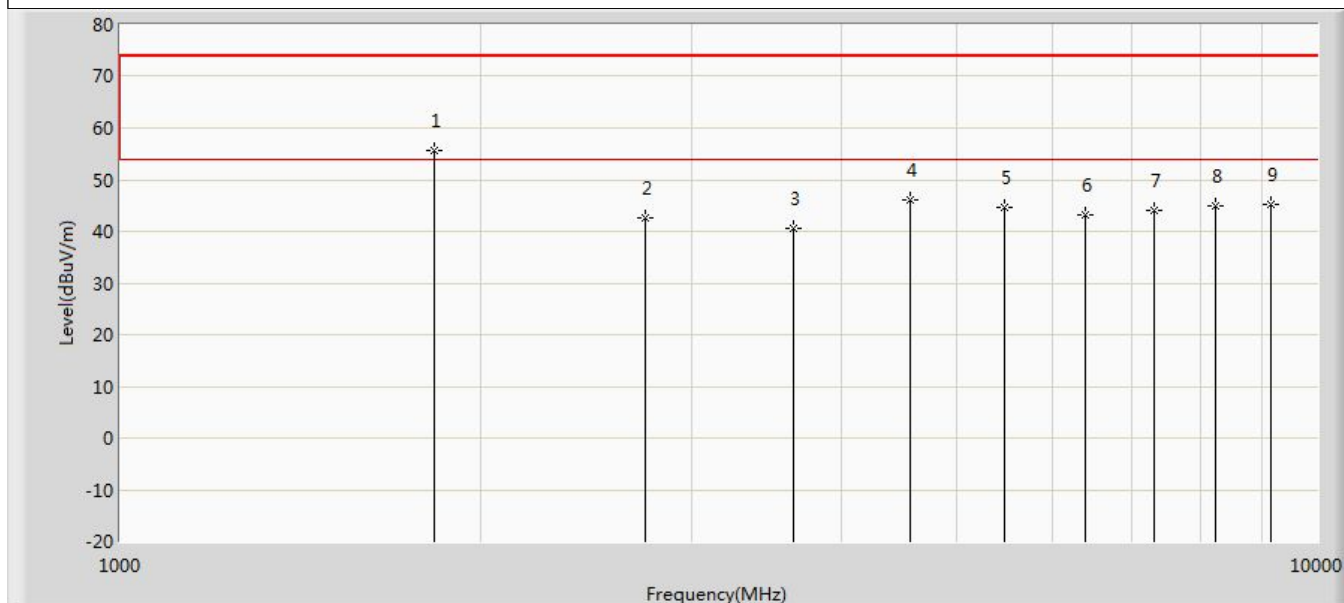
Profile: 2540161R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	48.685	60.300	-69.315	118.000	-11.615	PK
2		2723.400	39.428	48.238	-78.572	118.000	-8.810	PK
3		3631.200	41.393	48.101	-32.607	74.000	-6.709	PK
4		4539.000	43.319	48.085	-30.681	74.000	-4.766	PK
5		5446.800	45.058	47.436	-28.942	74.000	-2.378	PK
6		6354.600	44.124	45.237	-73.876	118.000	-1.112	PK
7		7262.400	44.192	44.703	-73.808	118.000	-0.511	PK
8		8170.200	45.615	45.490	-28.385	74.000	0.125	PK
9		9078.000	45.015	44.812	-28.985	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

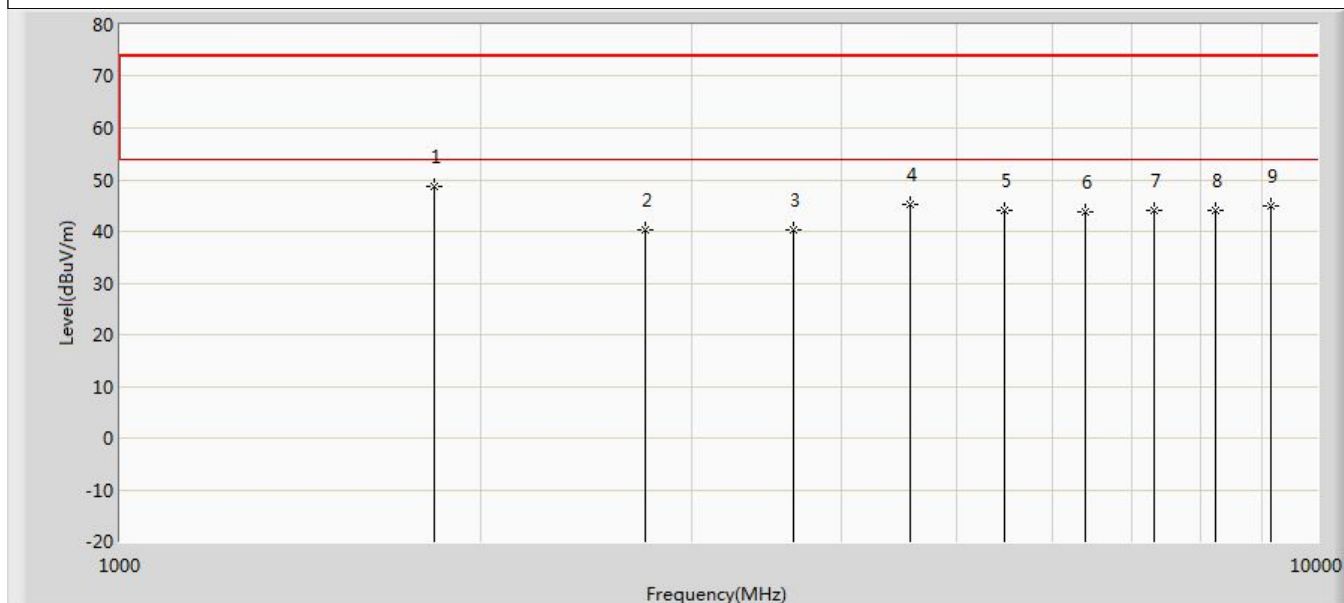
Profile: 2540161R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	55.761	67.096	-62.239	118.000	-11.335	PK
2		2746.000	42.714	51.434	-75.286	118.000	-8.721	PK
3		3656.800	40.651	46.895	-33.349	74.000	-6.244	PK
4		4573.000	45.993	50.192	-28.007	74.000	-4.200	PK
5		5482.000	44.576	47.163	-29.424	74.000	-2.587	PK
6		6399.400	43.104	44.426	-74.896	118.000	-1.323	PK
7		7313.600	44.108	44.850	-73.892	118.000	-0.741	PK
8		8227.800	44.859	44.606	-29.141	74.000	0.253	PK
9		9142.000	45.094	44.363	-28.906	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

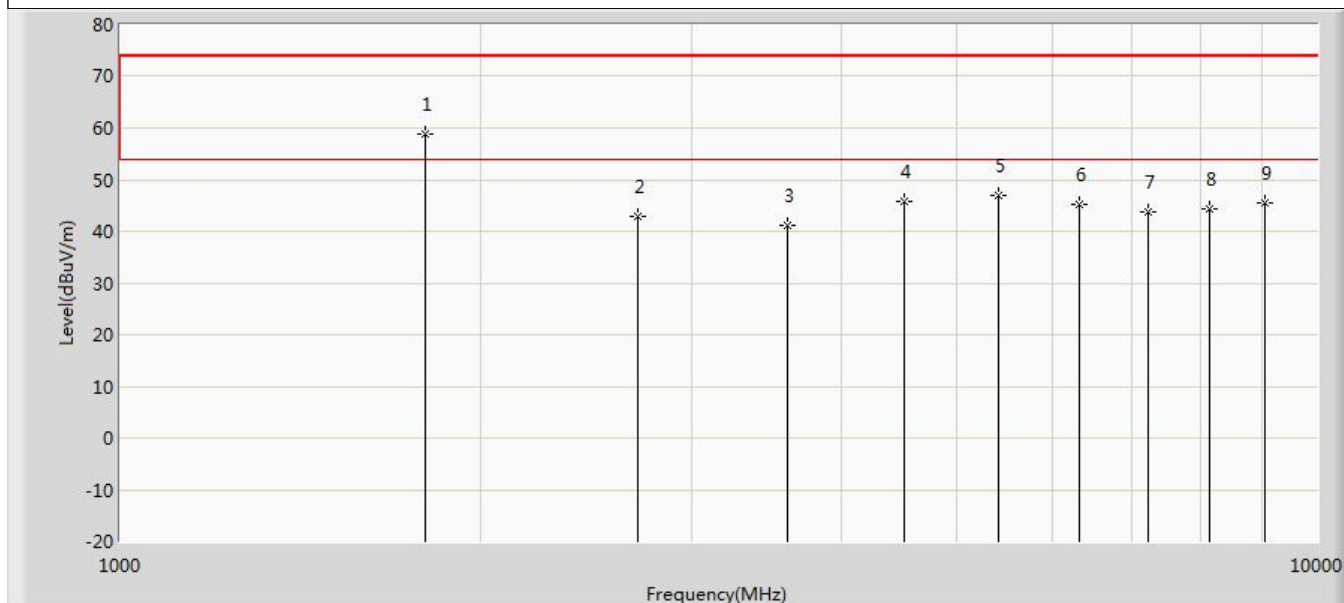
Profile: 2540161R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	48.587	59.922	-69.413	118.000	-11.335	PK
2		2742.600	40.415	49.188	-77.585	118.000	-8.774	PK
3		3656.800	40.340	46.584	-33.660	74.000	-6.244	PK
4		4573.000	45.134	49.333	-28.866	74.000	-4.200	PK
5		5485.200	44.031	46.609	-29.969	74.000	-2.577	PK
6		6399.400	43.643	44.965	-74.357	118.000	-1.323	PK
7		7313.600	43.993	44.735	-74.007	118.000	-0.741	PK
8		8227.800	44.085	43.832	-29.915	74.000	0.253	PK
9		9142.000	45.047	44.316	-28.953	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

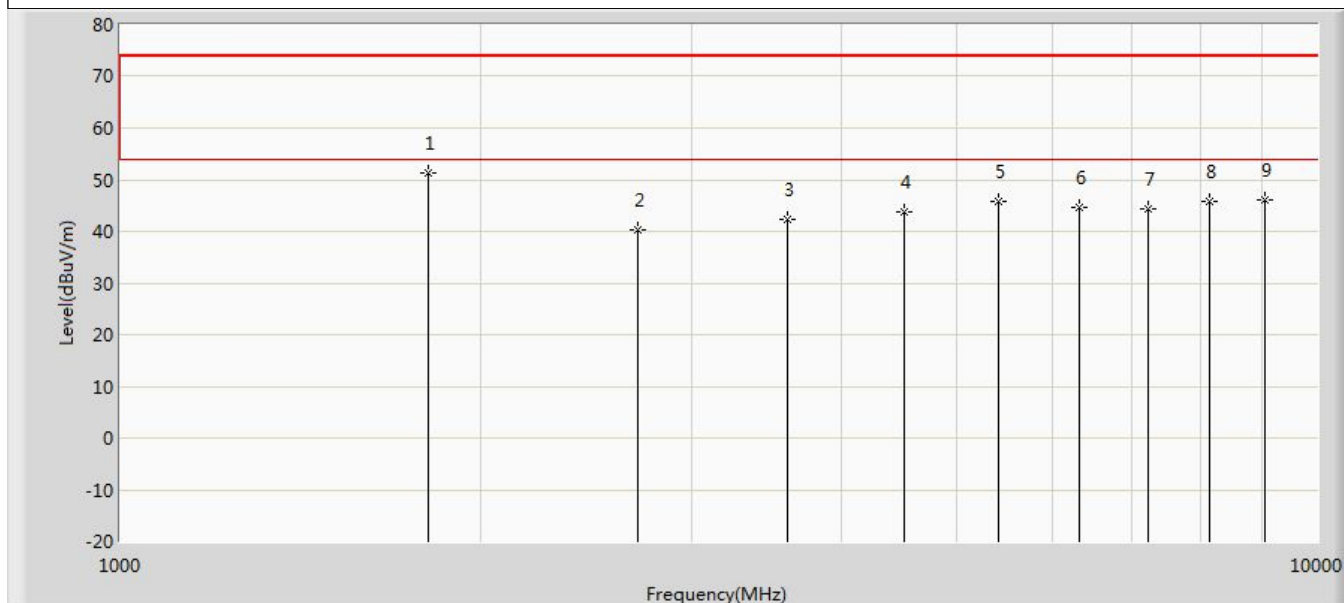
Profile: 2540161R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	58.979	70.652	-59.021	118.000	-11.672	PK
2		2710.000	42.817	51.555	-75.183	118.000	-8.739	PK
3		3612.000	41.121	47.721	-32.879	74.000	-6.600	PK
4		4519.000	45.764	49.412	-28.236	74.000	-3.648	PK
5		5419.000	47.000	49.474	-27.000	74.000	-2.474	PK
6		6321.000	45.193	45.701	-72.807	118.000	-0.508	PK
7		7224.000	43.718	44.363	-74.282	118.000	-0.646	PK
8		8127.000	44.391	44.404	-29.609	74.000	-0.014	PK
9		9030.000	45.566	45.065	-28.434	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

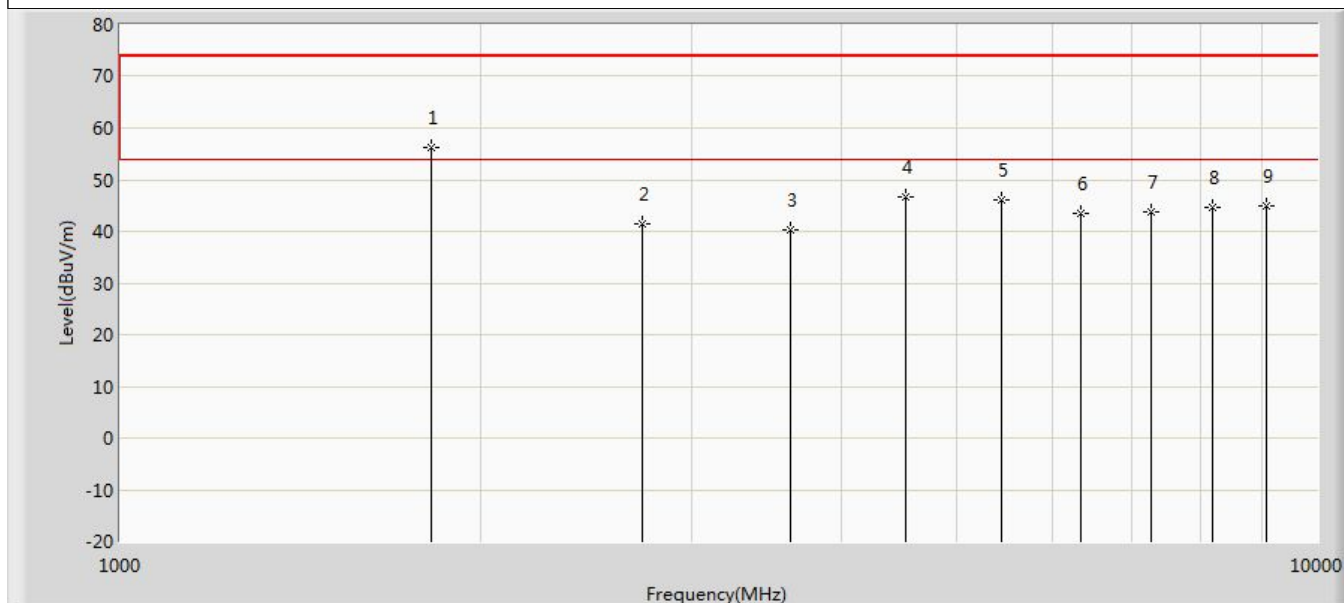
Profile: 2540161R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	51.196	62.890	-66.804	118.000	-11.694	PK
2		2709.000	40.273	49.009	-77.727	118.000	-8.737	PK
3		3612.000	42.366	48.966	-31.634	74.000	-6.600	PK
4		4515.000	43.689	47.501	-30.311	74.000	-3.812	PK
5		5419.000	45.660	48.134	-28.340	74.000	-2.474	PK
6		6321.000	44.516	45.024	-73.484	118.000	-0.508	PK
7		7224.000	44.273	44.918	-73.727	118.000	-0.646	PK
8		8127.000	45.760	45.773	-28.240	74.000	-0.014	PK
9		9030.000	46.073	45.572	-27.927	74.000	0.501	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

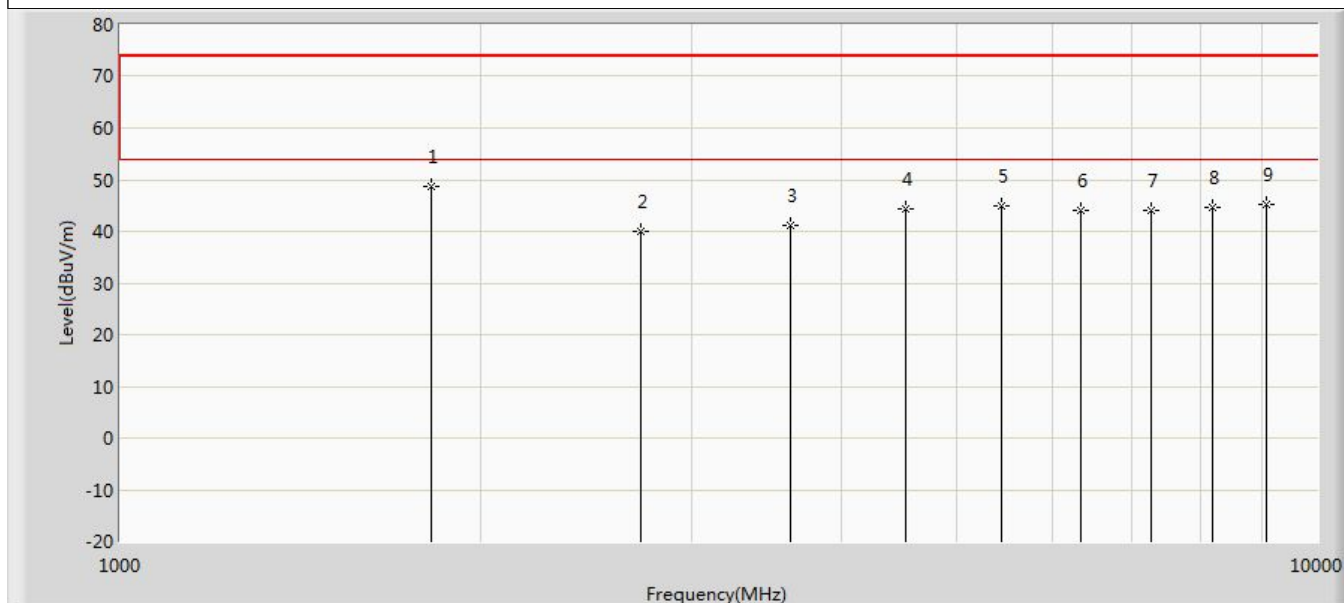
Profile: 2540161R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	56.370	67.985	-61.630	118.000	-11.615	PK
2		2728.000	41.485	50.337	-76.515	118.000	-8.852	PK
3		3631.200	40.225	46.933	-33.775	74.000	-6.709	PK
4		4537.000	46.590	51.331	-27.410	74.000	-4.741	PK
5		5446.000	46.039	48.377	-27.961	74.000	-2.338	PK
6		6354.600	43.496	44.609	-74.504	118.000	-1.112	PK
7		7262.400	43.869	44.380	-74.131	118.000	-0.511	PK
8		8170.200	44.551	44.426	-29.449	74.000	0.125	PK
9		9078.000	45.042	44.839	-28.958	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

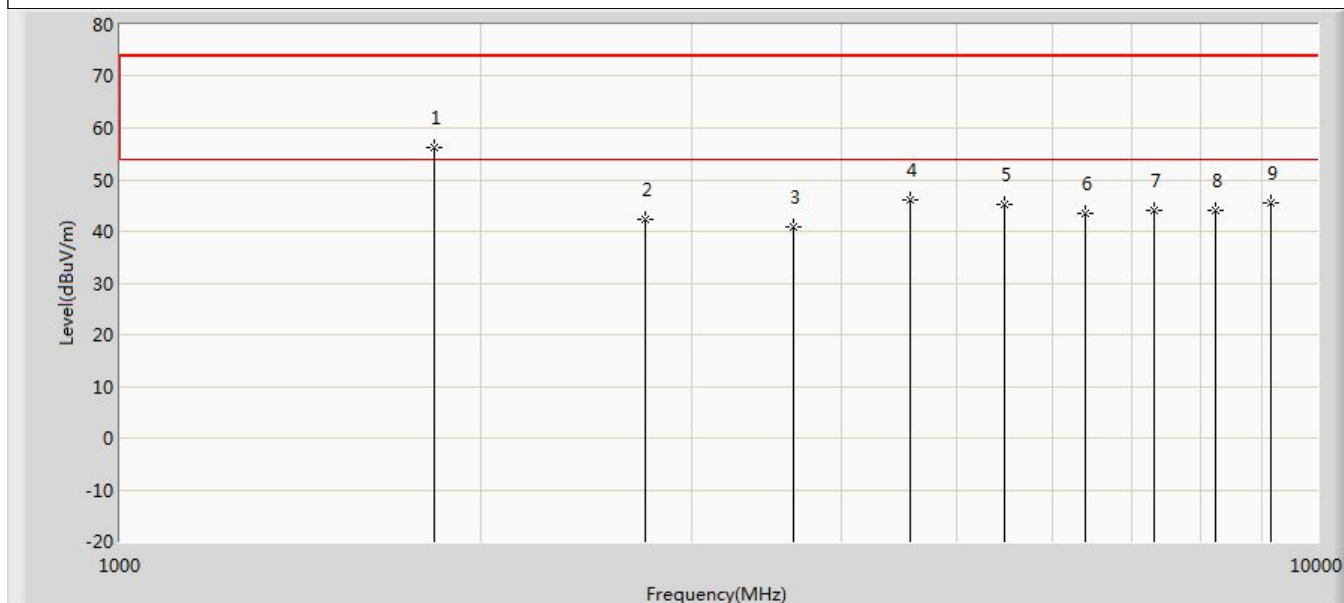
Profile: 2540161R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	48.589	60.204	-69.411	118.000	-11.615	PK
2		2723.400	39.995	48.805	-78.005	118.000	-8.810	PK
3		3631.200	41.127	47.835	-32.873	74.000	-6.709	PK
4		4537.000	44.410	49.151	-29.590	74.000	-4.741	PK
5		5446.000	44.797	47.135	-29.203	74.000	-2.338	PK
6		6354.600	44.115	45.228	-73.885	118.000	-1.112	PK
7		7262.400	44.160	44.671	-73.840	118.000	-0.511	PK
8		8170.200	44.717	44.592	-29.283	74.000	0.125	PK
9		9078.000	45.075	44.872	-28.925	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

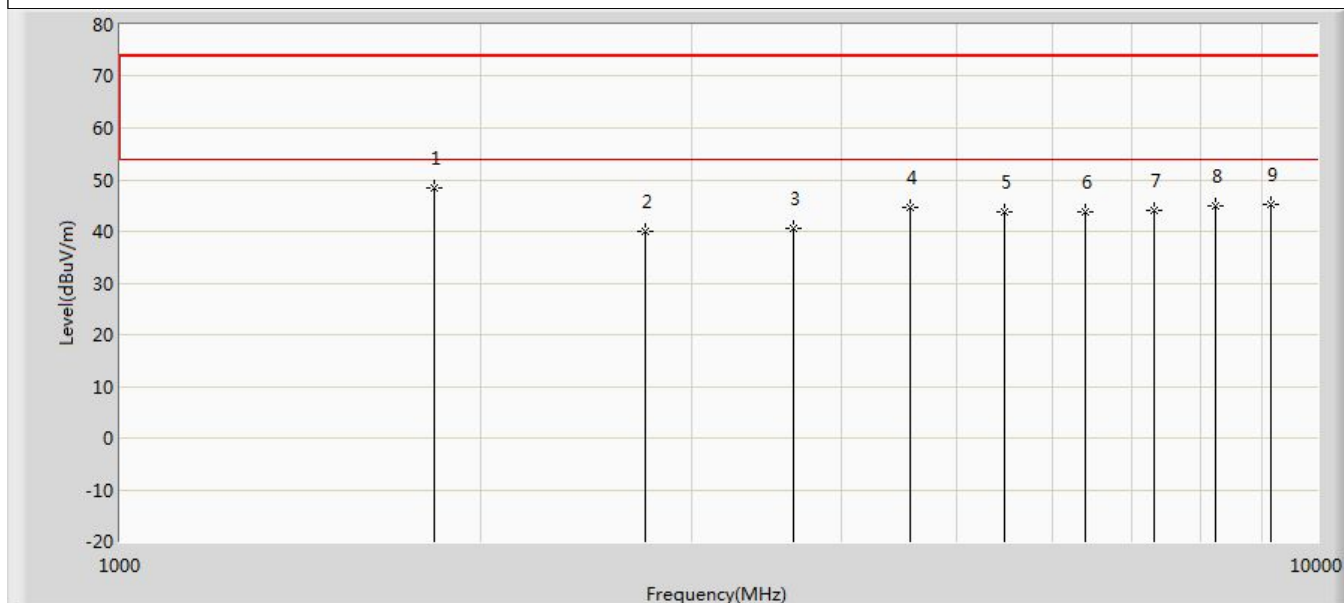
Profile: 2540161R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.229	67.564	-61.771	118.000	-11.335	PK
2		2746.000	42.237	50.957	-75.763	118.000	-8.721	PK
3		3656.800	40.805	47.049	-33.195	74.000	-6.244	PK
4		4573.000	46.014	50.213	-27.986	74.000	-4.200	PK
5		5482.000	45.327	47.914	-28.673	74.000	-2.587	PK
6		6399.400	43.575	44.897	-74.425	118.000	-1.323	PK
7		7313.600	43.946	44.688	-74.054	118.000	-0.741	PK
8		8227.800	44.181	43.928	-29.819	74.000	0.253	PK
9		9142.000	45.614	44.883	-28.386	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

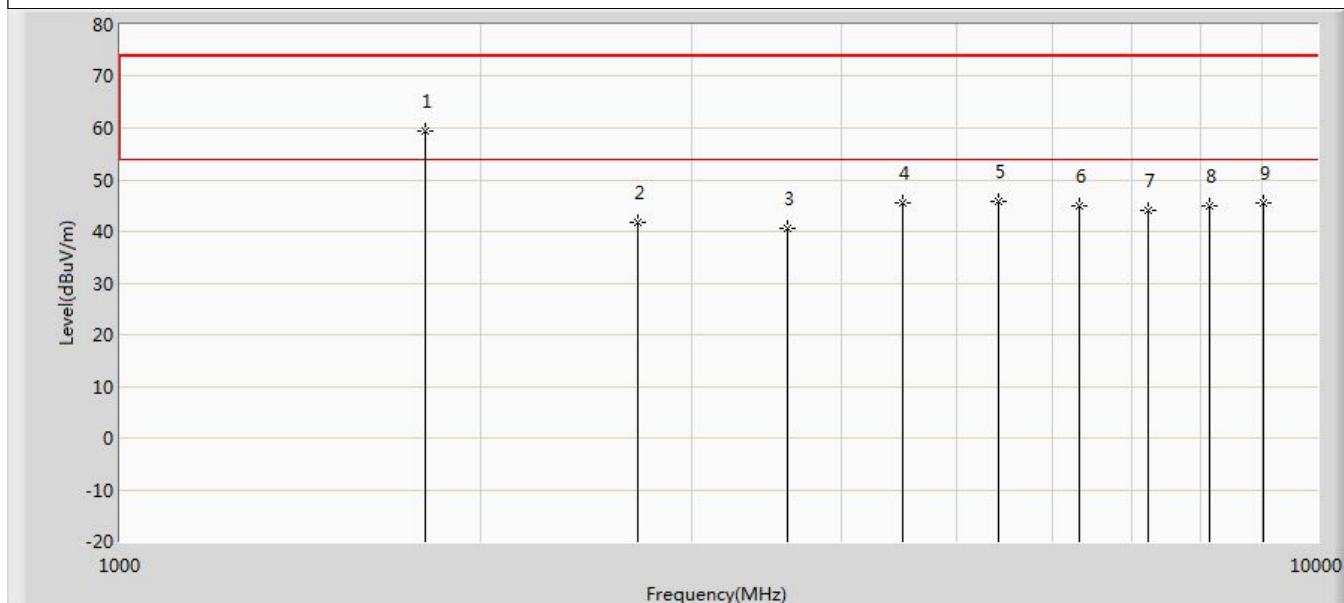
Profile: 2540161R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 00:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	48.447	59.782	-69.553	118.000	-11.335	PK
2		2742.600	39.893	48.666	-78.107	118.000	-8.774	PK
3		3656.800	40.649	46.893	-33.351	74.000	-6.244	PK
4		4573.000	44.658	48.857	-29.342	74.000	-4.200	PK
5		5485.200	43.811	46.389	-30.189	74.000	-2.577	PK
6		6399.400	43.912	45.234	-74.088	118.000	-1.323	PK
7		7313.600	43.964	44.706	-74.036	118.000	-0.741	PK
8		8227.800	44.840	44.587	-29.160	74.000	0.253	PK
9		9142.000	45.296	44.565	-28.704	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

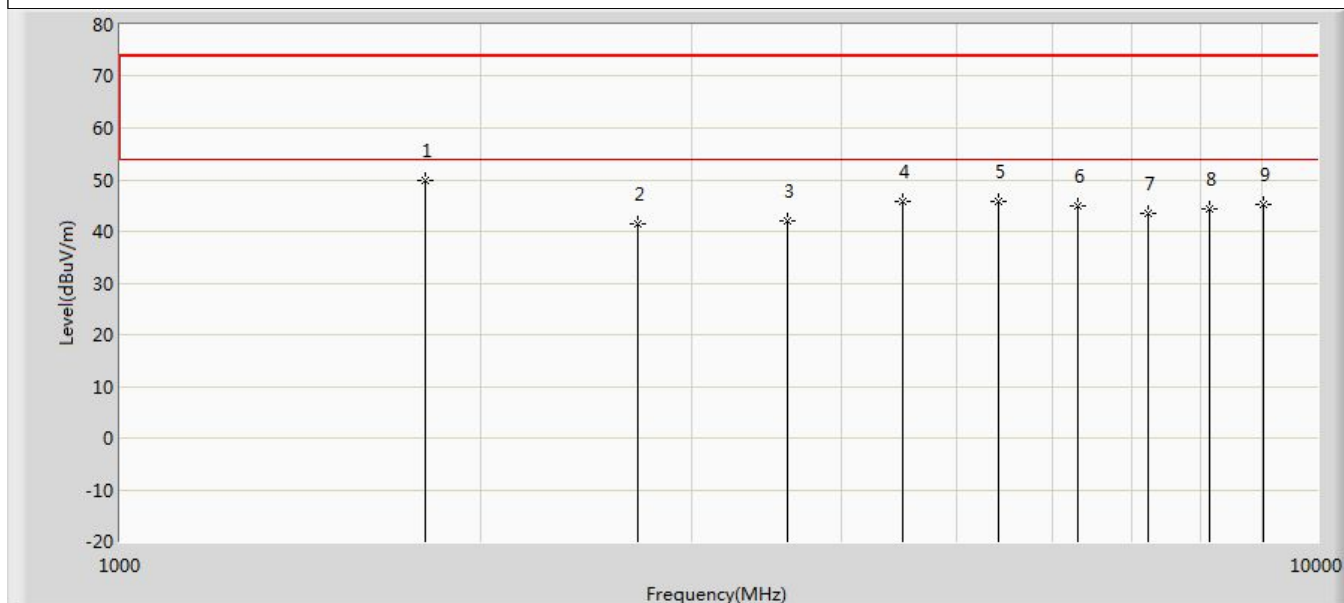
Profile: 2540161R	Page No.: 49
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	59.526	71.199	-58.474	118.000	-11.672	PK
2		2710.000	41.742	50.480	-76.258	118.000	-8.739	PK
3		3610.000	40.561	47.199	-33.439	74.000	-6.638	PK
4		4510.000	45.403	49.419	-28.597	74.000	-4.016	PK
5		5410.000	45.768	48.369	-28.232	74.000	-2.601	PK
6		6319.000	45.049	45.617	-72.951	118.000	-0.569	PK
7		7220.000	43.956	44.632	-74.044	118.000	-0.677	PK
8		8122.500	44.834	44.743	-29.166	74.000	0.091	PK
9		9025.000	45.487	45.021	-28.513	74.000	0.466	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

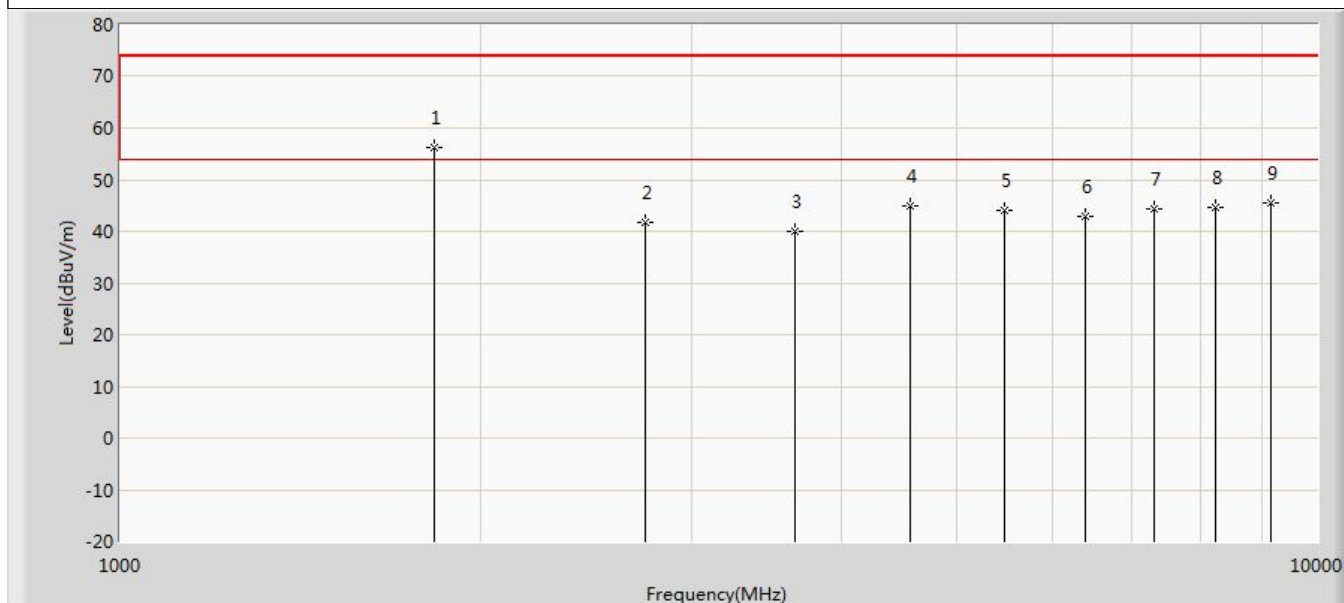
Profile: 2540161R	Page No.: 50
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	49.835	61.508	-68.165	118.000	-11.672	PK
2		2710.000	41.384	50.122	-76.616	118.000	-8.739	PK
3		3610.000	41.988	48.626	-32.012	74.000	-6.638	PK
4		4510.000	45.730	49.746	-28.270	74.000	-4.016	PK
5		5419.000	45.694	48.168	-28.306	74.000	-2.474	PK
6		6317.500	44.999	45.612	-73.001	118.000	-0.613	PK
7		7220.000	43.423	44.099	-74.577	118.000	-0.677	PK
8		8122.500	44.376	44.285	-29.624	74.000	0.091	PK
9		9025.000	45.133	44.667	-28.867	74.000	0.466	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

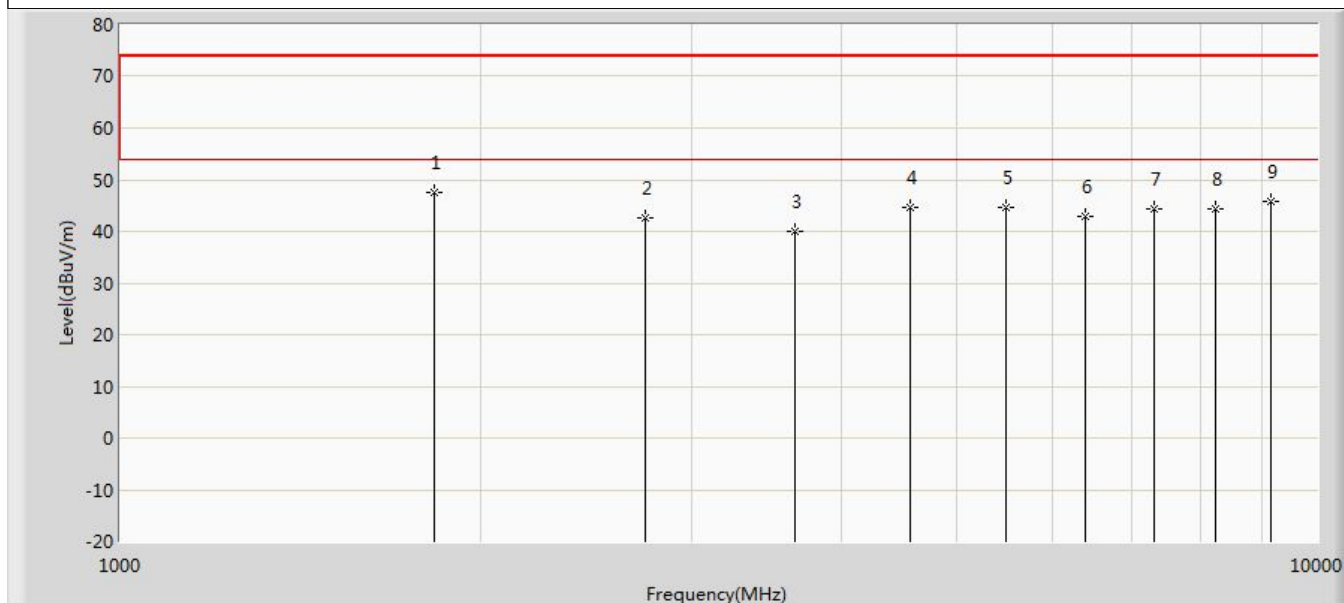
Profile: 2540161R	Page No.: 51
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.226	67.561	-61.774	118.000	-11.335	PK
2		2746.000	41.875	50.595	-76.125	118.000	-8.721	PK
3		3658.000	39.923	46.185	-34.077	74.000	-6.262	PK
4		4573.000	45.042	49.241	-28.958	74.000	-4.200	PK
5		5487.000	43.971	46.544	-30.029	74.000	-2.574	PK
6		6401.500	42.792	44.183	-75.208	118.000	-1.391	PK
7		7316.000	44.280	45.061	-73.720	118.000	-0.781	PK
8		8230.500	44.495	44.140	-29.505	74.000	0.354	PK
9		9145.000	45.514	44.837	-28.486	74.000	0.677	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

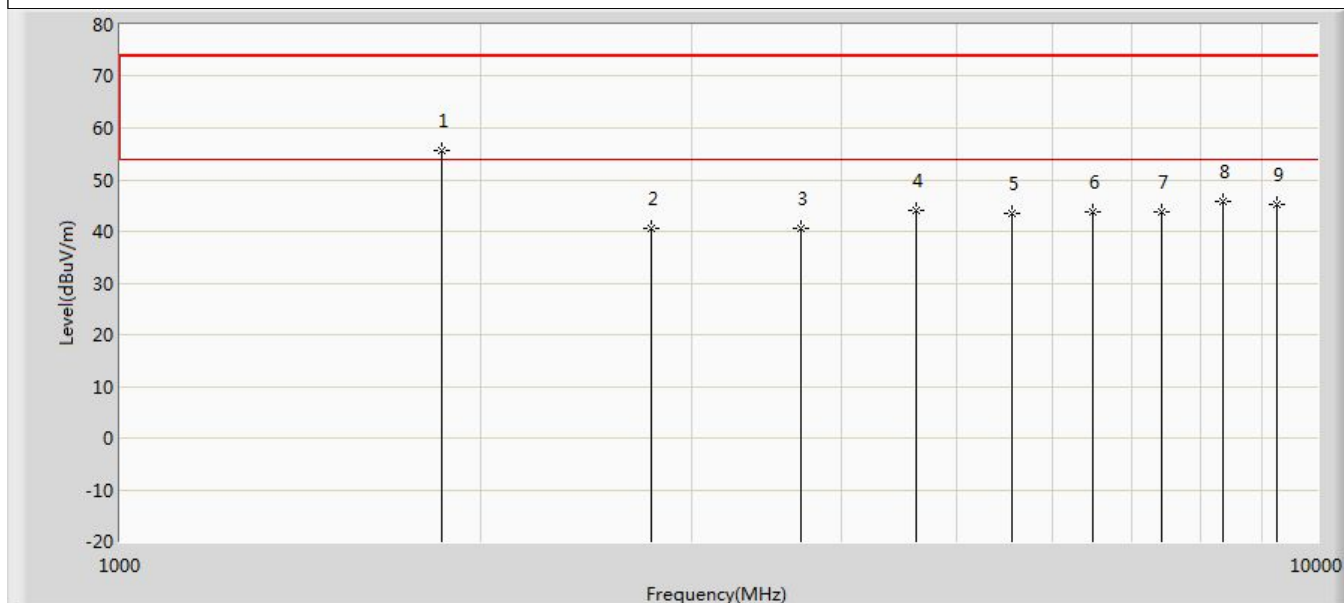
Profile: 2540161R	Page No.: 52
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	47.400	58.735	-70.600	118.000	-11.335	PK
2		2746.000	42.501	51.221	-75.499	118.000	-8.721	PK
3		3658.000	40.111	46.373	-33.889	74.000	-6.262	PK
4		4573.000	44.663	48.862	-29.337	74.000	-4.200	PK
5		5491.000	44.564	47.205	-29.436	74.000	-2.641	PK
6		6401.500	42.885	44.276	-75.115	118.000	-1.391	PK
7		7316.000	44.469	45.250	-73.531	118.000	-0.781	PK
8		8230.500	44.216	43.861	-29.784	74.000	0.354	PK
9		9145.000	45.833	45.156	-28.167	74.000	0.677	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

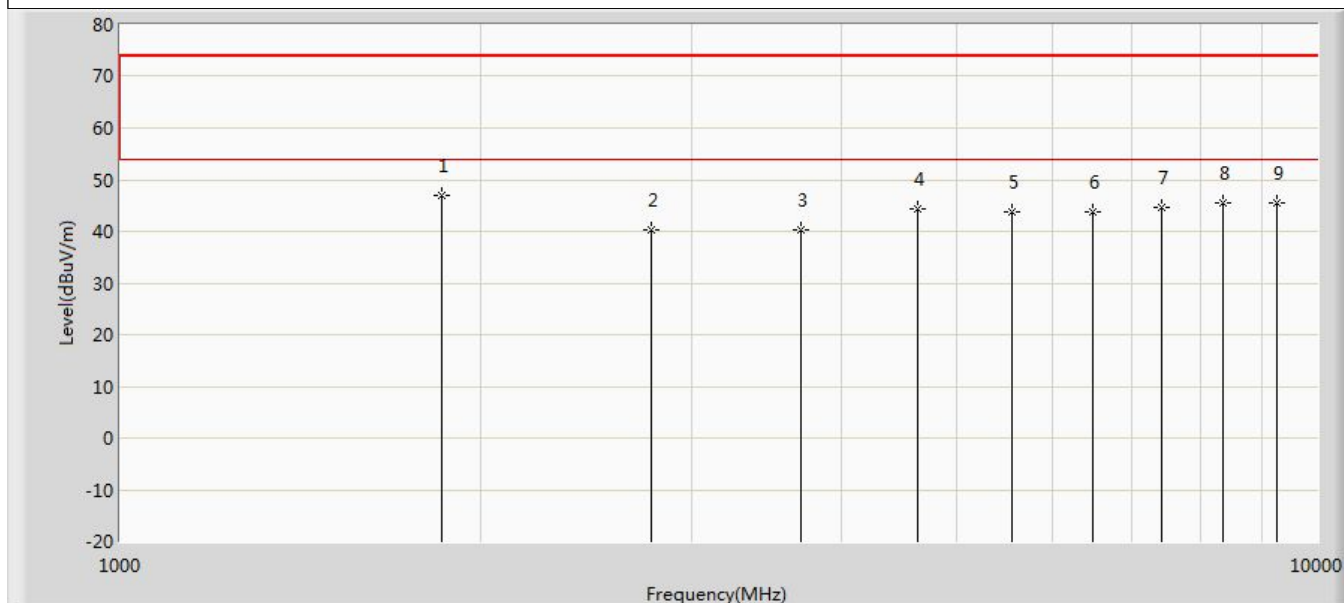
Profile: 2540161R	Page No.: 53
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	55.536	66.664	-62.464	118.000	-11.128	PK
2		2779.500	40.651	49.518	-77.349	118.000	-8.867	PK
3		3706.000	40.580	46.929	-33.420	74.000	-6.349	PK
4		4627.000	44.176	48.451	-29.824	74.000	-4.275	PK
5		5559.000	43.398	45.614	-30.602	74.000	-2.215	PK
6		6485.500	43.630	44.557	-74.370	118.000	-0.927	PK
7		7412.000	43.879	44.359	-74.121	118.000	-0.480	PK
8		8338.500	45.776	45.141	-28.224	74.000	0.635	PK
9		9265.000	45.230	44.152	-28.770	74.000	1.078	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

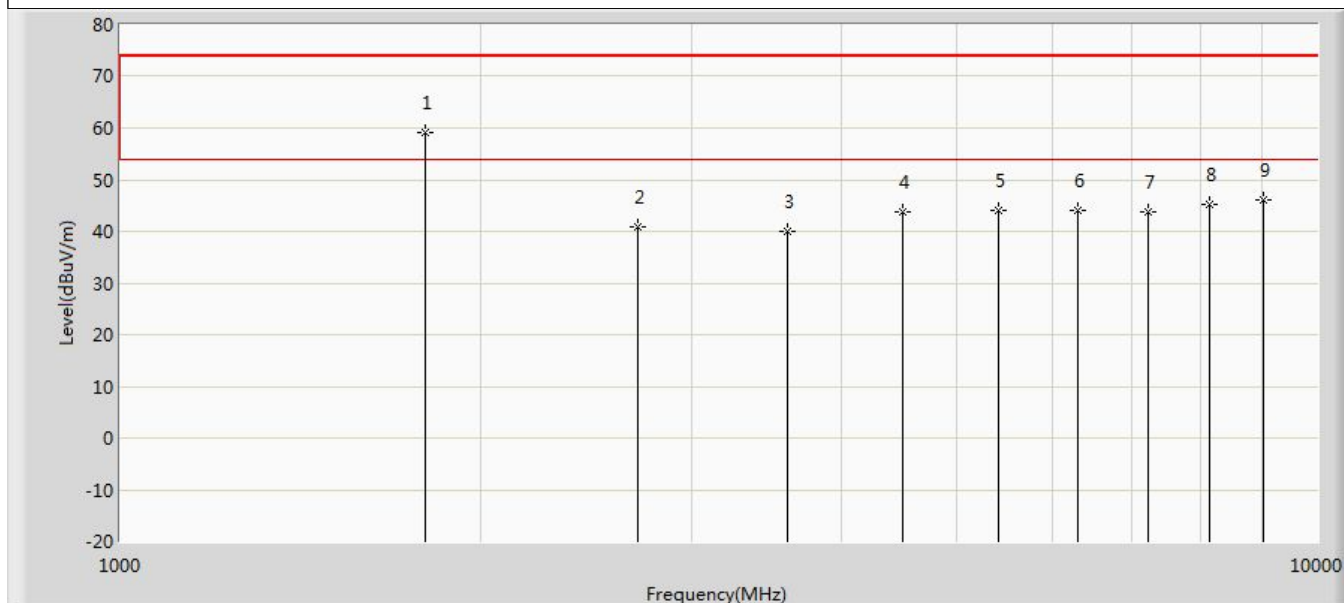
Profile: 2540161R	Page No.: 54
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by LoRa SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	46.989	58.117	-71.011	118.000	-11.128	PK
2		2779.500	40.154	49.021	-77.846	118.000	-8.867	PK
3		3706.000	40.408	46.757	-33.592	74.000	-6.349	PK
4		4636.000	44.370	48.613	-29.630	74.000	-4.243	PK
5		5559.000	43.898	46.114	-30.102	74.000	-2.215	PK
6		6485.500	43.761	44.688	-74.239	118.000	-0.927	PK
7		7412.000	44.695	45.175	-73.305	118.000	-0.480	PK
8		8338.500	45.458	44.823	-28.542	74.000	0.635	PK
9		9265.000	45.433	44.355	-28.567	74.000	1.078	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

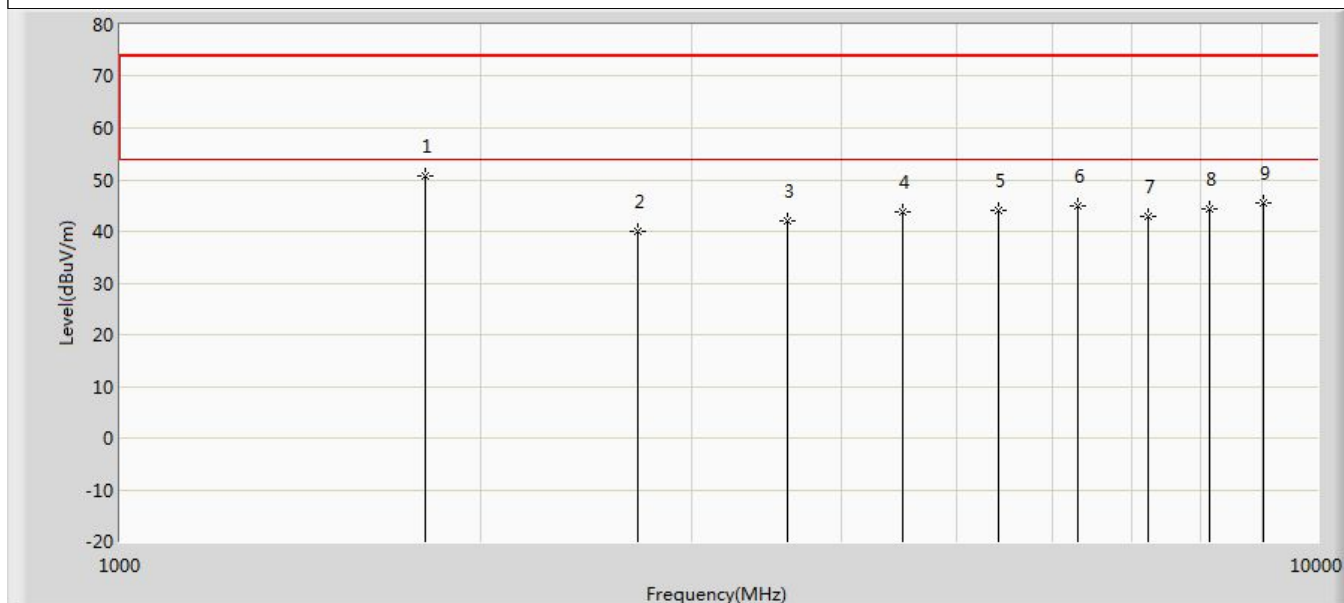
Profile: 2540161R	Page No.: 55
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by LoRa SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	59.177	70.850	-58.823	118.000	-11.672	PK
2		2706.600	40.754	49.486	-77.246	118.000	-8.732	PK
3		3608.800	40.072	46.733	-33.928	74.000	-6.661	PK
4		4511.000	43.662	47.638	-30.338	74.000	-3.976	PK
5		5413.200	44.198	46.754	-29.802	74.000	-2.556	PK
6		6315.400	43.973	44.649	-74.027	118.000	-0.676	PK
7		7217.600	43.892	44.516	-74.108	118.000	-0.624	PK
8		8119.800	45.156	45.022	-28.844	74.000	0.134	PK
9		9022.000	46.071	45.491	-27.929	74.000	0.580	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

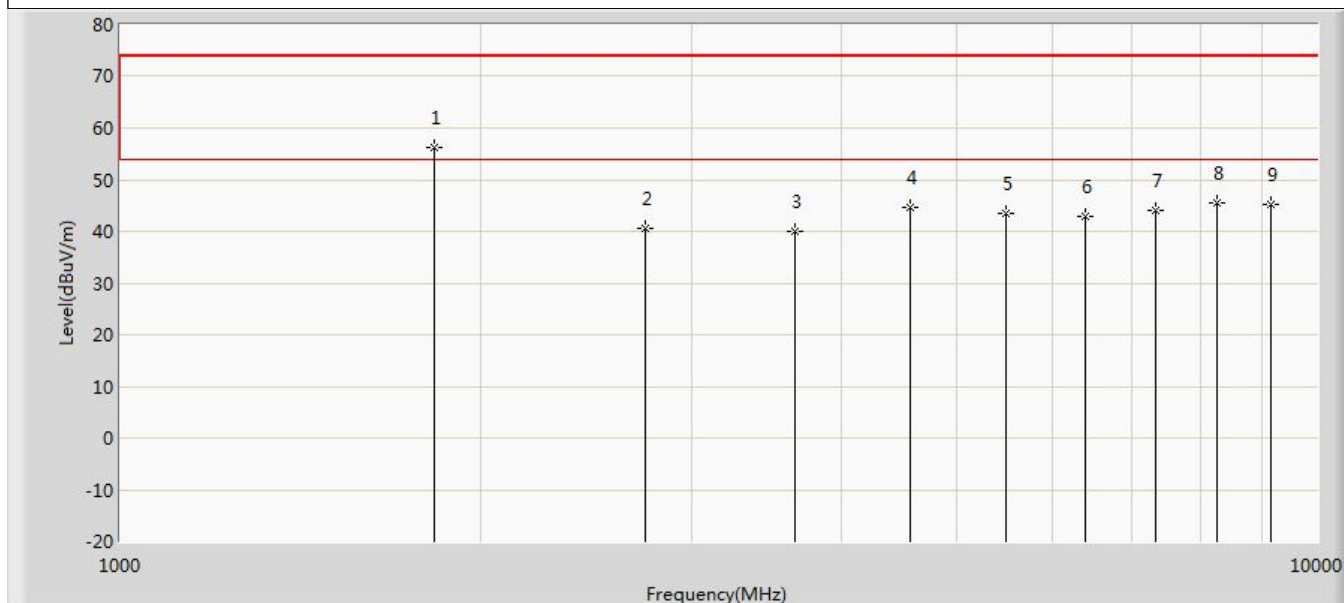
Profile: 2540161R	Page No.: 56
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by LoRa SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	50.649	62.322	-67.351	118.000	-11.672	PK
2		2706.600	40.046	48.778	-77.954	118.000	-8.732	PK
3		3608.800	41.917	48.578	-32.083	74.000	-6.661	PK
4		4511.000	43.859	47.835	-30.141	74.000	-3.976	PK
5		5413.200	44.032	46.588	-29.968	74.000	-2.556	PK
6		6315.400	44.994	45.670	-73.006	118.000	-0.676	PK
7		7217.600	42.981	43.605	-75.019	118.000	-0.624	PK
8		8119.800	44.315	44.181	-29.685	74.000	0.134	PK
9		9022.000	45.565	44.985	-28.435	74.000	0.580	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

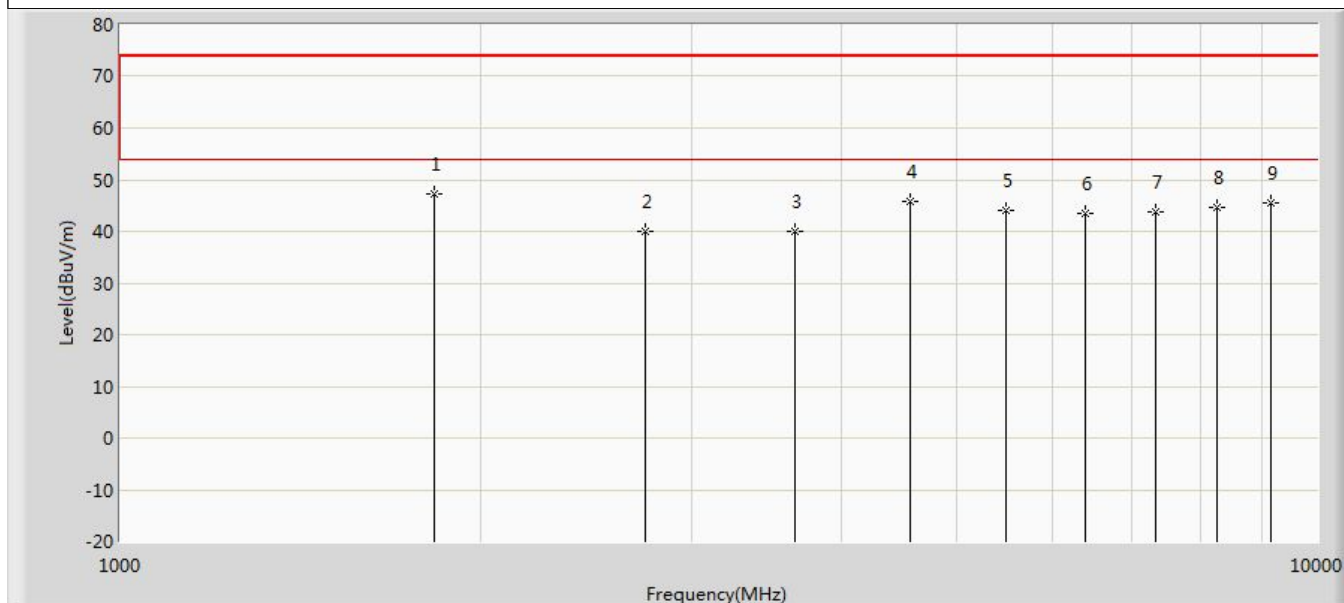
Profile: 2540161R	Page No.: 57
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by LoRa SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.256	67.591	-61.744	118.000	-11.335	PK
2		2745.000	40.669	49.405	-77.331	118.000	-8.736	PK
3		3660.000	39.960	46.254	-34.040	74.000	-6.294	PK
4		4573.000	44.493	48.692	-29.507	74.000	-4.200	PK
5		5490.000	43.495	46.113	-30.505	74.000	-2.618	PK
6		6405.000	42.981	44.488	-75.019	118.000	-1.507	PK
7		7320.000	44.074	44.921	-73.926	118.000	-0.847	PK
8		8235.000	45.524	45.000	-28.476	74.000	0.524	PK
9		9150.000	45.091	44.512	-28.909	74.000	0.578	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

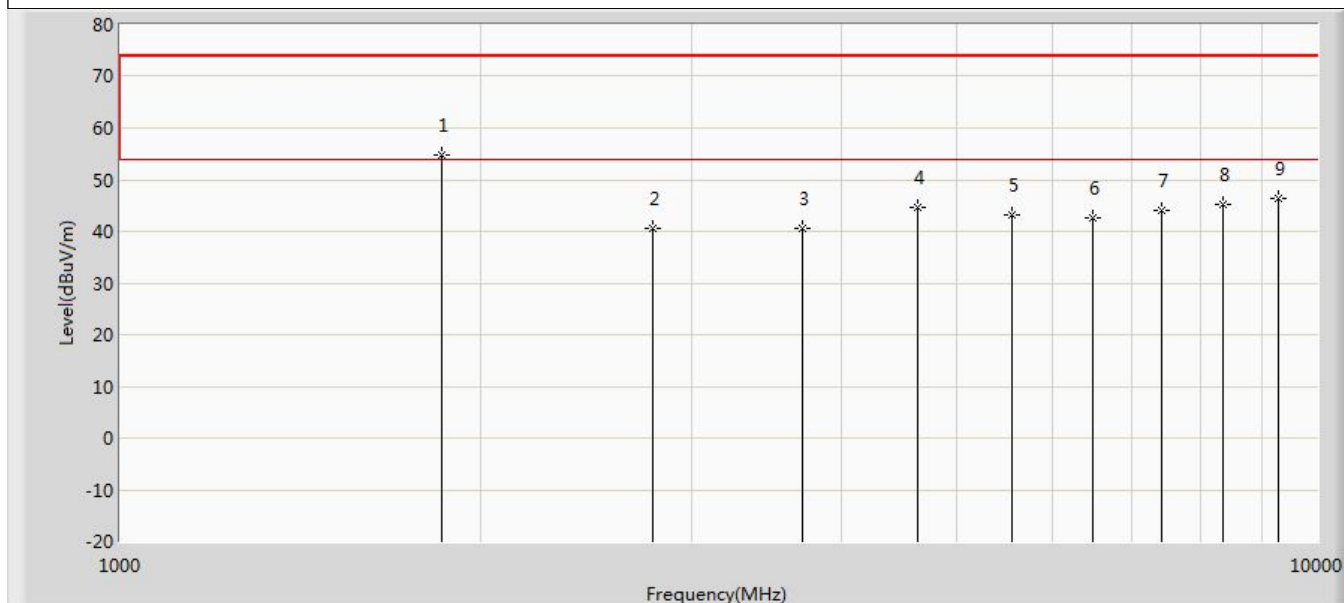
Profile: 2540161R	Page No.: 58
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by LoRa SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	47.372	58.707	-70.628	118.000	-11.335	PK
2		2745.000	40.022	48.758	-77.978	118.000	-8.736	PK
3		3660.000	39.992	46.286	-34.008	74.000	-6.294	PK
4		4573.000	45.836	50.035	-28.164	74.000	-4.200	PK
5		5490.000	44.142	46.760	-29.858	74.000	-2.618	PK
6		6405.000	43.510	45.017	-74.490	118.000	-1.507	PK
7		7320.000	43.728	44.575	-74.272	118.000	-0.847	PK
8		8235.000	44.689	44.165	-29.311	74.000	0.524	PK
9		9150.000	45.416	44.837	-28.584	74.000	0.578	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

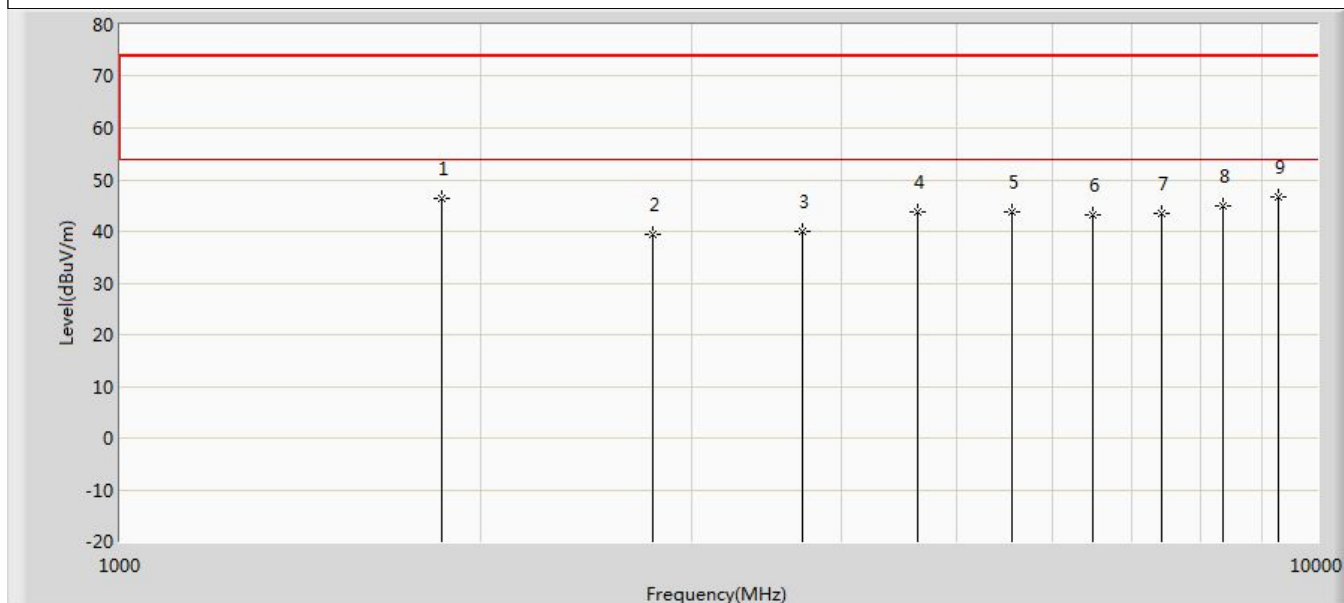
Profile: 2540161R	Page No.: 59
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by LoRa SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	54.925	66.053	-63.075	118.000	-11.128	PK
2		2783.400	40.619	49.577	-77.381	118.000	-8.957	PK
3		3711.200	40.664	46.921	-33.336	74.000	-6.257	PK
4		4636.000	44.542	48.785	-29.458	74.000	-4.243	PK
5		5566.800	43.227	45.650	-30.773	74.000	-2.423	PK
6		6494.600	42.547	43.451	-75.453	118.000	-0.905	PK
7		7422.400	44.135	44.533	-73.865	118.000	-0.398	PK
8		8350.200	45.251	44.632	-28.749	74.000	0.619	PK
9		9278.000	46.358	44.780	-27.642	74.000	1.577	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

Profile: 2540161R	Page No.: 60
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by LoRa SubG FSK	

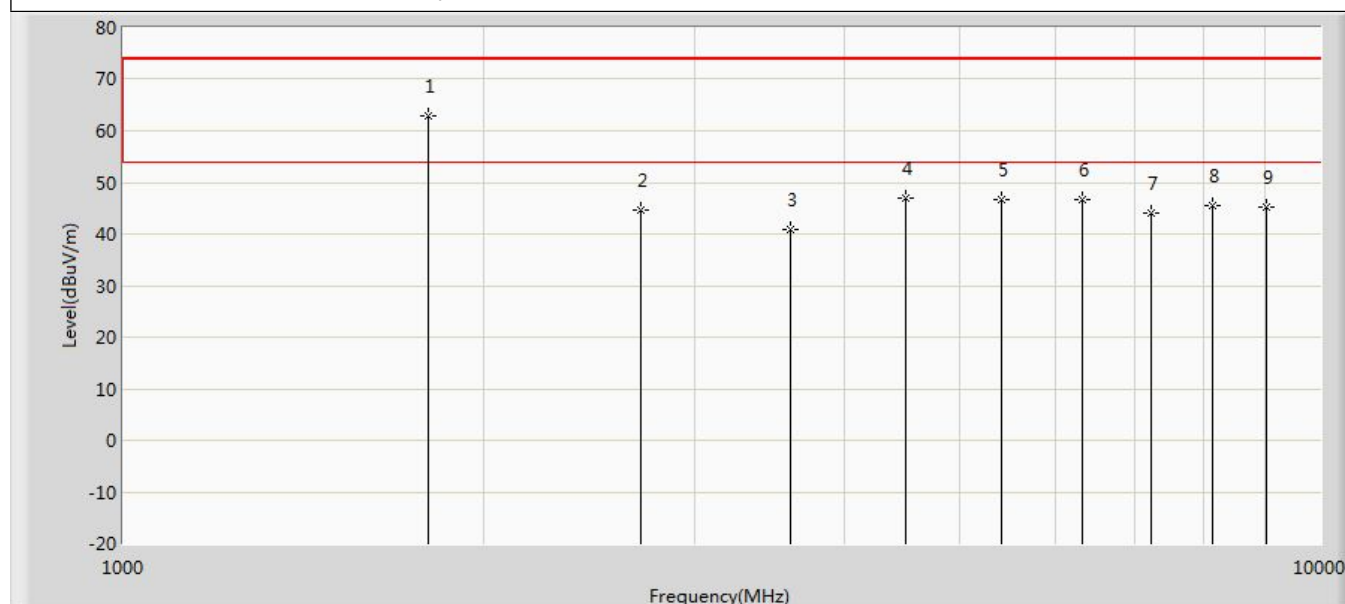


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1855.000	46.453	57.581	-71.547	118.000	-11.128	PK
2		2783.400	39.563	48.521	-78.437	118.000	-8.957	PK
3		3711.200	40.142	46.399	-33.858	74.000	-6.257	PK
4		4636.000	43.885	48.128	-30.115	74.000	-4.243	PK
5		5566.800	43.821	46.244	-30.179	74.000	-2.423	PK
6		6494.600	43.161	44.065	-74.839	118.000	-0.905	PK
7		7422.400	43.434	43.832	-74.566	118.000	-0.398	PK
8		8350.200	45.007	44.388	-28.993	74.000	0.619	PK
9	*	9278.000	46.784	45.206	-27.216	74.000	1.577	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

2195835-4 (cable length 200mm):

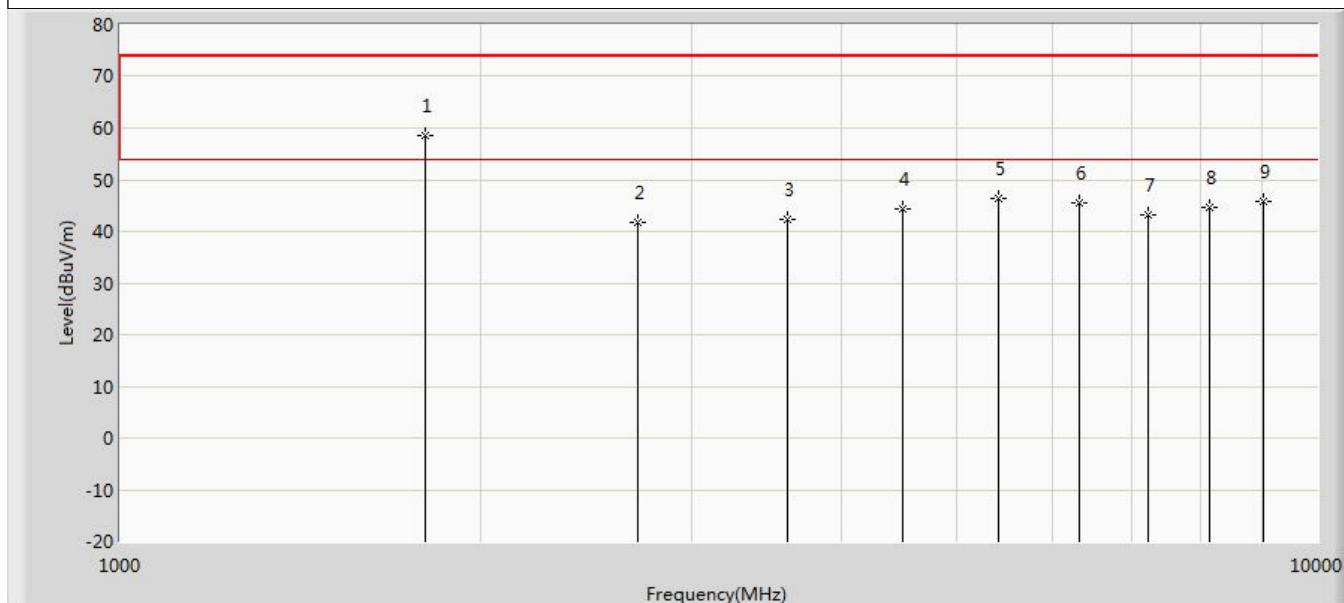
Profile: 2540161R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1: Transmit at 902.3MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	62.780	74.453	-55.220	118.000	-11.672	PK
2		2710.000	44.725	53.463	-73.275	118.000	-8.739	PK
3		3609.200	40.815	47.468	-33.185	74.000	-6.654	PK
4		4510.000	47.009	51.025	-26.991	74.000	-4.016	PK
5		5410.000	46.810	49.411	-27.190	74.000	-2.601	PK
6		6319.000	46.726	47.294	-71.274	118.000	-0.569	PK
7		7218.400	43.944	44.586	-74.056	118.000	-0.642	PK
8		8120.700	45.410	45.290	-28.590	74.000	0.120	PK
9		9023.000	45.239	44.719	-28.761	74.000	0.519	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμV/m)

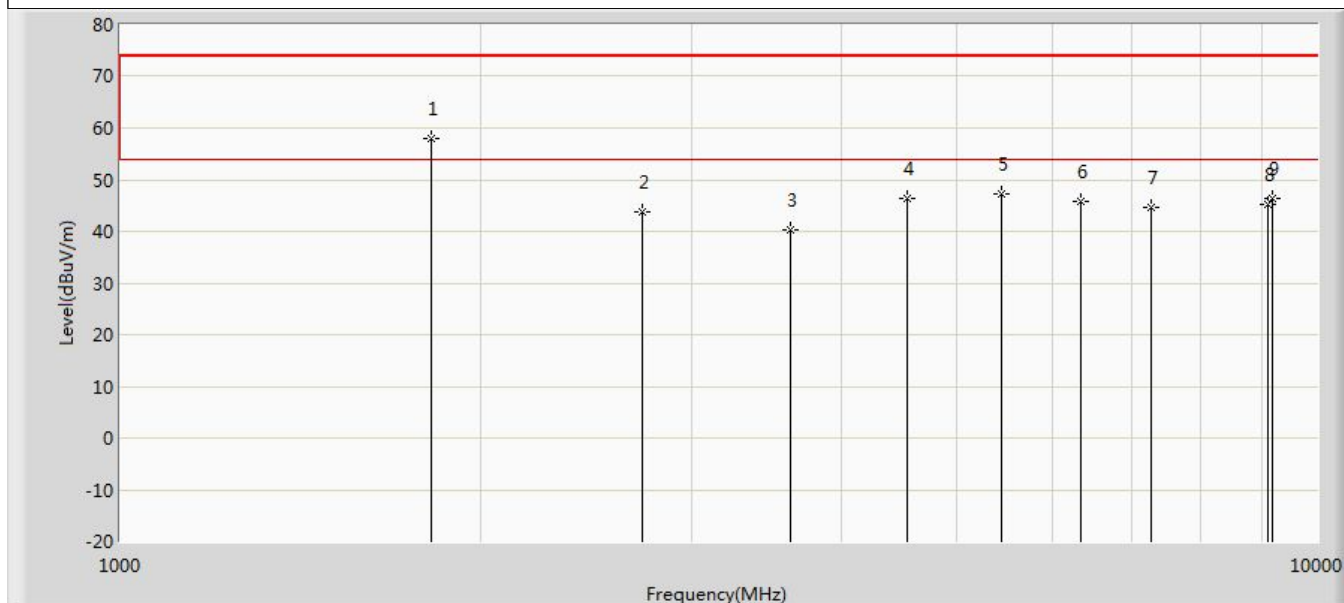
Profile: 2540161R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 902.3MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	58.660	70.333	-59.340	118.000	-11.672	PK
2		2710.000	41.884	50.622	-76.116	118.000	-8.739	PK
3		3609.200	42.369	49.022	-31.631	74.000	-6.654	PK
4		4510.000	44.437	48.453	-29.563	74.000	-4.016	PK
5		5410.000	46.405	49.006	-27.595	74.000	-2.601	PK
6		6319.000	45.559	46.127	-72.441	118.000	-0.569	PK
7		7218.400	43.185	43.827	-74.815	118.000	-0.642	PK
8		8120.700	44.778	44.658	-29.222	74.000	0.120	PK
9		9023.000	45.750	45.230	-28.250	74.000	0.519	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

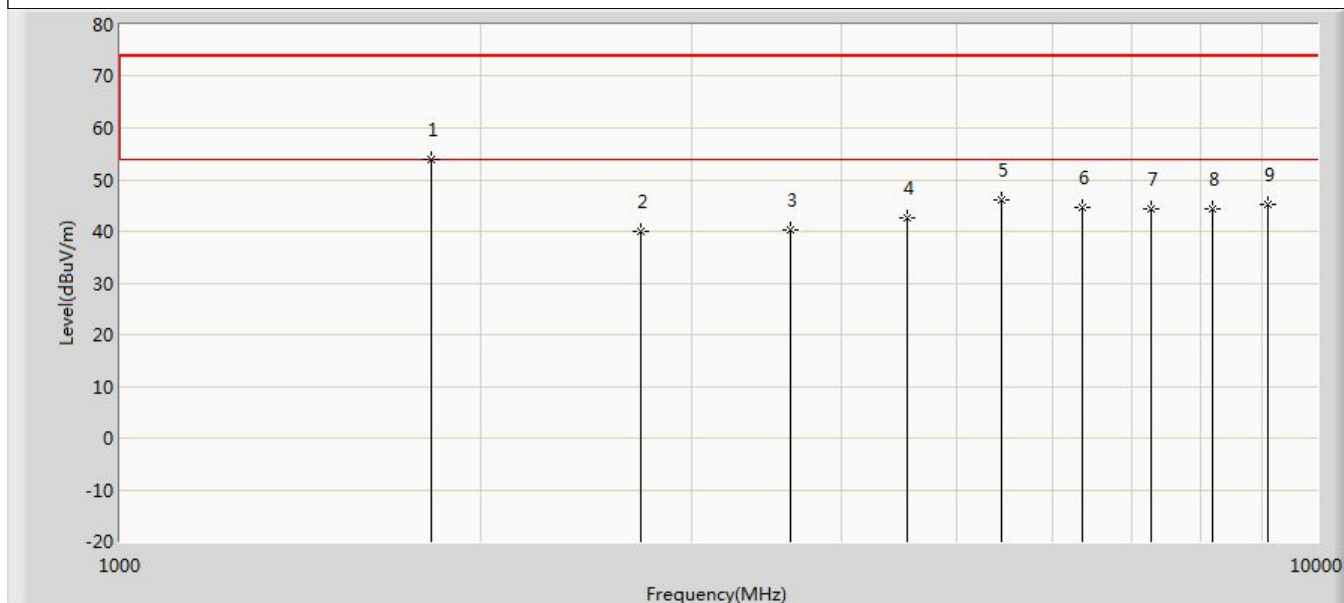
Profile: 2540161R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	58.043	69.658	-59.957	118.000	-11.615	PK
2		2728.000	43.770	52.622	-74.230	118.000	-8.852	PK
3		3634.000	40.242	46.998	-33.758	74.000	-6.756	PK
4		4546.000	46.258	51.111	-27.742	74.000	-4.852	PK
5		5455.000	47.389	50.117	-26.611	74.000	-2.727	PK
6		6355.000	45.818	46.943	-72.182	118.000	-1.125	PK
7		7268.000	44.608	44.982	-73.392	118.000	-0.375	PK
8		9085.000	45.079	45.034	-28.921	74.000	0.044	PK
9		9176.500	46.238	44.964	-27.762	74.000	1.274	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

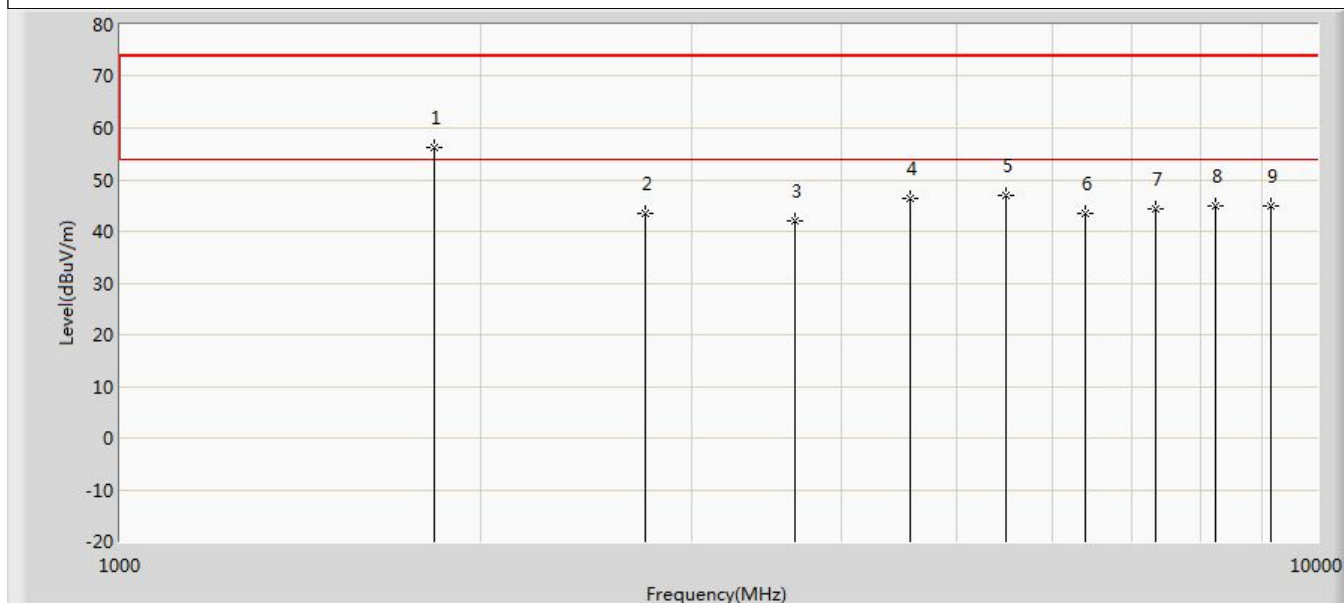
Profile: 2540161R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 908.5MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	53.899	65.514	-64.101	118.000	-11.615	PK
2		2725.500	40.037	48.866	-77.963	118.000	-8.829	PK
3		3634.000	40.313	47.069	-33.687	74.000	-6.756	PK
4		4542.500	42.674	47.483	-31.326	74.000	-4.809	PK
5		5455.000	46.050	48.778	-27.950	74.000	-2.727	PK
6		6359.500	44.717	45.772	-73.283	118.000	-1.055	PK
7		7268.000	44.362	44.736	-73.638	118.000	-0.375	PK
8		8176.500	44.276	44.160	-29.724	74.000	0.116	PK
9		9085.000	45.157	45.112	-28.843	74.000	0.044	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

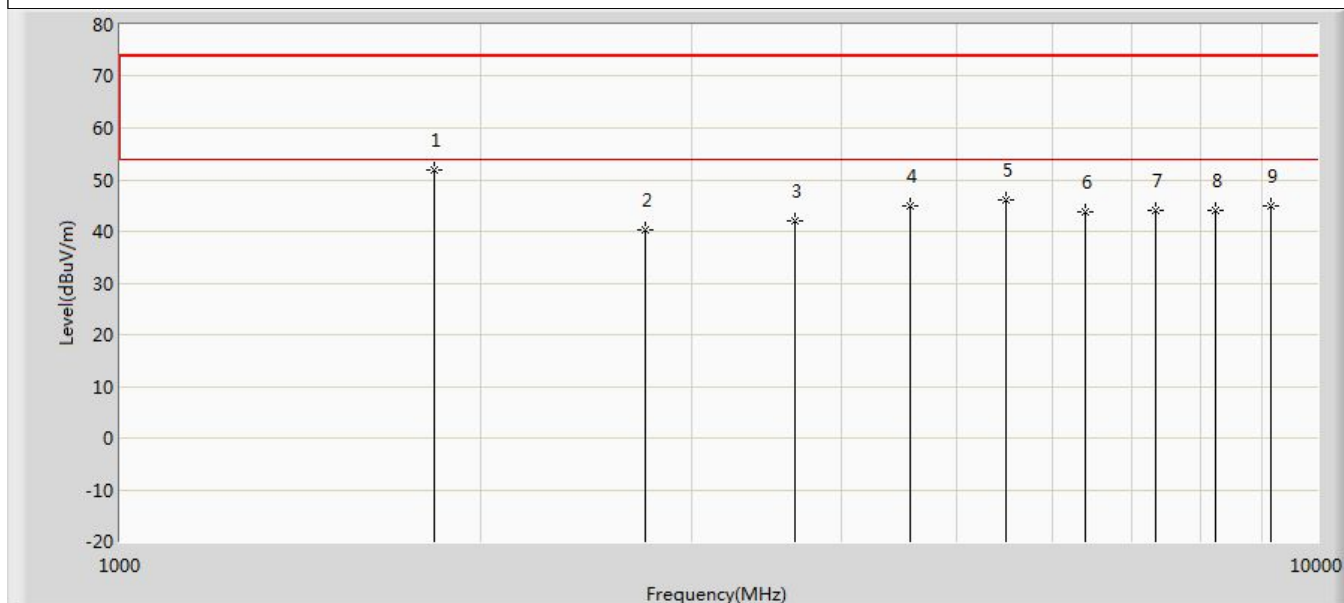
Profile: 2540161R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.227	67.562	-61.773	118.000	-11.335	PK
2		2746.000	43.604	52.324	-74.396	118.000	-8.721	PK
3		3659.600	41.902	48.189	-32.098	74.000	-6.287	PK
4		4573.000	46.491	50.690	-27.509	74.000	-4.200	PK
5		5491.000	47.080	49.721	-26.920	74.000	-2.641	PK
6		6404.300	43.565	45.049	-74.435	118.000	-1.484	PK
7		7319.200	44.236	45.070	-73.764	118.000	-0.833	PK
8		8234.100	44.887	44.397	-29.113	74.000	0.490	PK
9		9149.000	45.039	44.441	-28.961	74.000	0.598	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

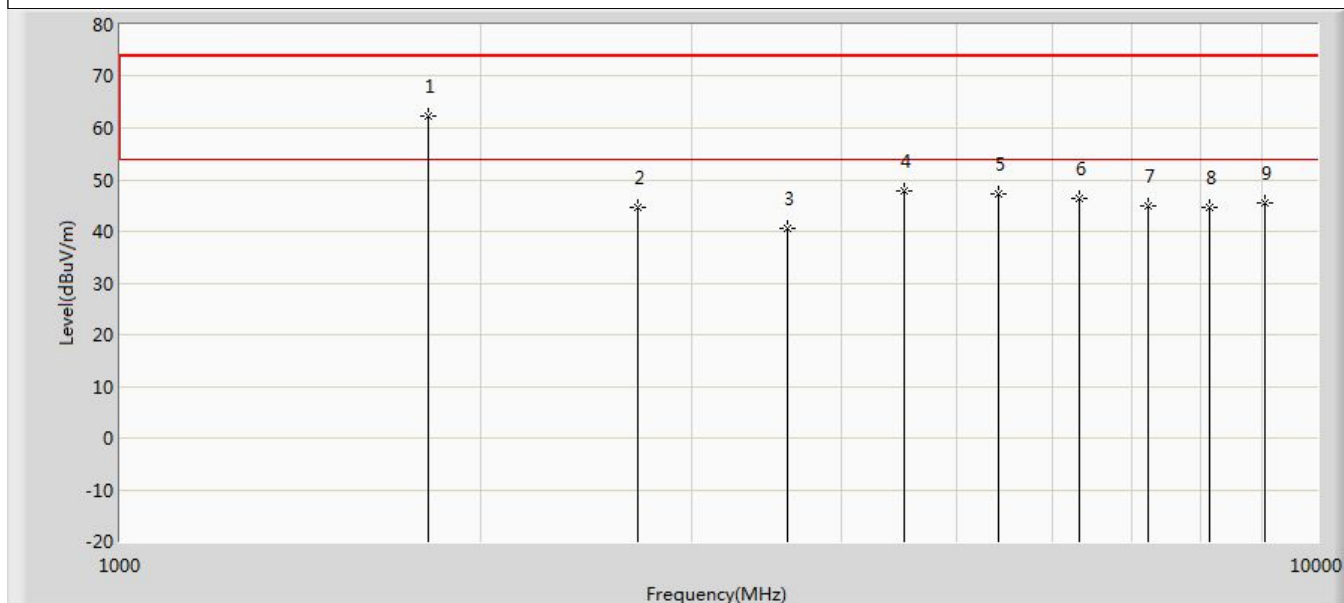
Profile: 2540161R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 1 : Transmit at 914.9MHz by LoRa 125K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	52.012	63.347	-65.988	118.000	-11.335	PK
2		2744.700	40.271	49.011	-77.729	118.000	-8.740	PK
3		3659.600	41.901	48.188	-32.099	74.000	-6.287	PK
4		4573.000	44.791	48.990	-29.209	74.000	-4.200	PK
5		5491.000	45.983	48.624	-28.017	74.000	-2.641	PK
6		6404.300	43.703	45.187	-74.297	118.000	-1.484	PK
7		7319.200	44.168	45.002	-73.832	118.000	-0.833	PK
8		8234.100	44.161	43.671	-29.839	74.000	0.490	PK
9		9149.000	45.046	44.448	-28.954	74.000	0.598	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

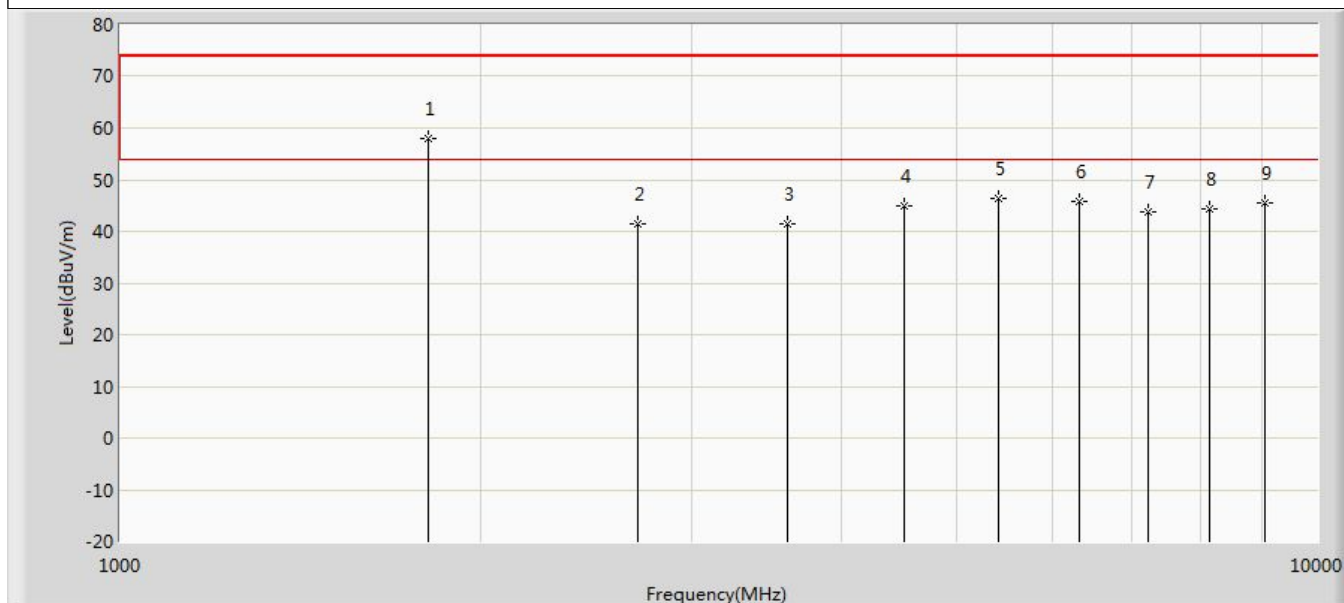
Profile: 2540161R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	62.373	74.067	-55.627	118.000	-11.694	PK
2		2710.000	44.575	53.313	-73.425	118.000	-8.739	PK
3		3612.000	40.435	47.035	-33.565	74.000	-6.600	PK
4		4519.000	47.815	51.463	-26.185	74.000	-3.648	PK
5		5419.000	47.270	49.744	-26.730	74.000	-2.474	PK
6		6319.000	46.368	46.936	-71.632	118.000	-0.569	PK
7		7224.000	44.827	45.472	-73.173	118.000	-0.646	PK
8		8127.000	44.678	44.691	-29.322	74.000	-0.014	PK
9		9030.000	45.481	44.980	-28.519	74.000	0.501	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

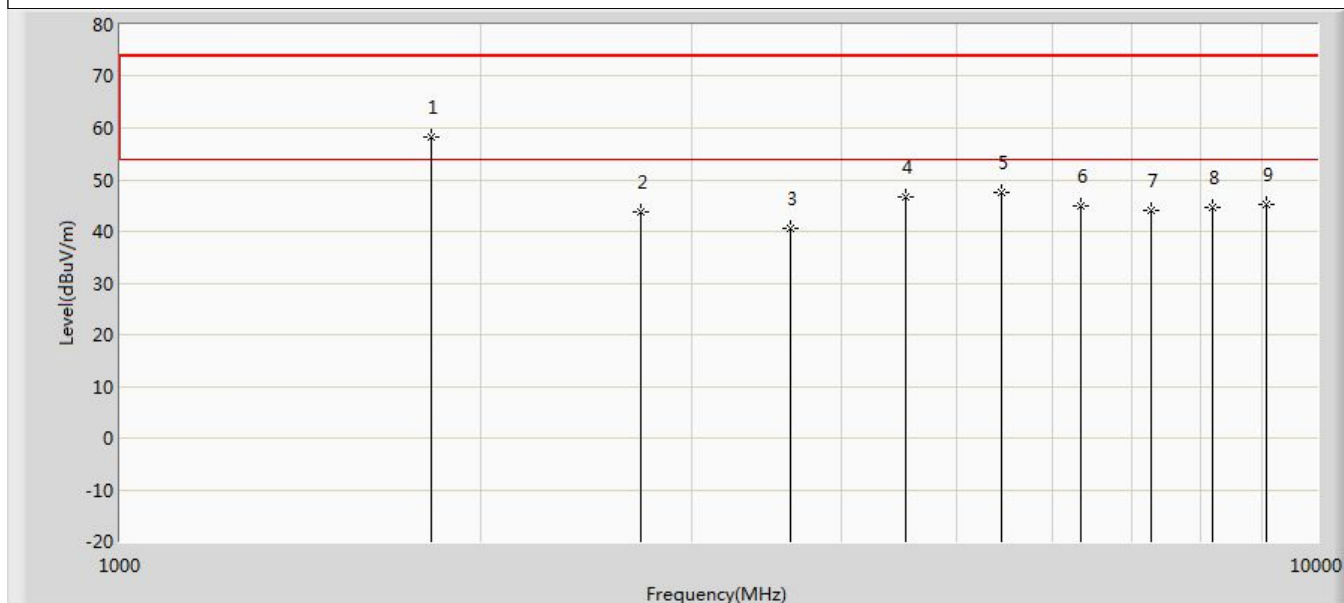
Profile: 2540161R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 903MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	58.013	69.707	-59.987	118.000	-11.694	PK
2		2709.000	41.573	50.309	-76.427	118.000	-8.737	PK
3		3612.000	41.440	48.040	-32.560	74.000	-6.600	PK
4		4519.000	44.865	48.513	-29.135	74.000	-3.648	PK
5		5419.000	46.399	48.873	-27.601	74.000	-2.474	PK
6		6319.000	45.933	46.501	-72.067	118.000	-0.569	PK
7		7224.000	43.686	44.331	-74.314	118.000	-0.646	PK
8		8127.000	44.308	44.321	-29.692	74.000	-0.014	PK
9		9030.000	45.428	44.927	-28.572	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

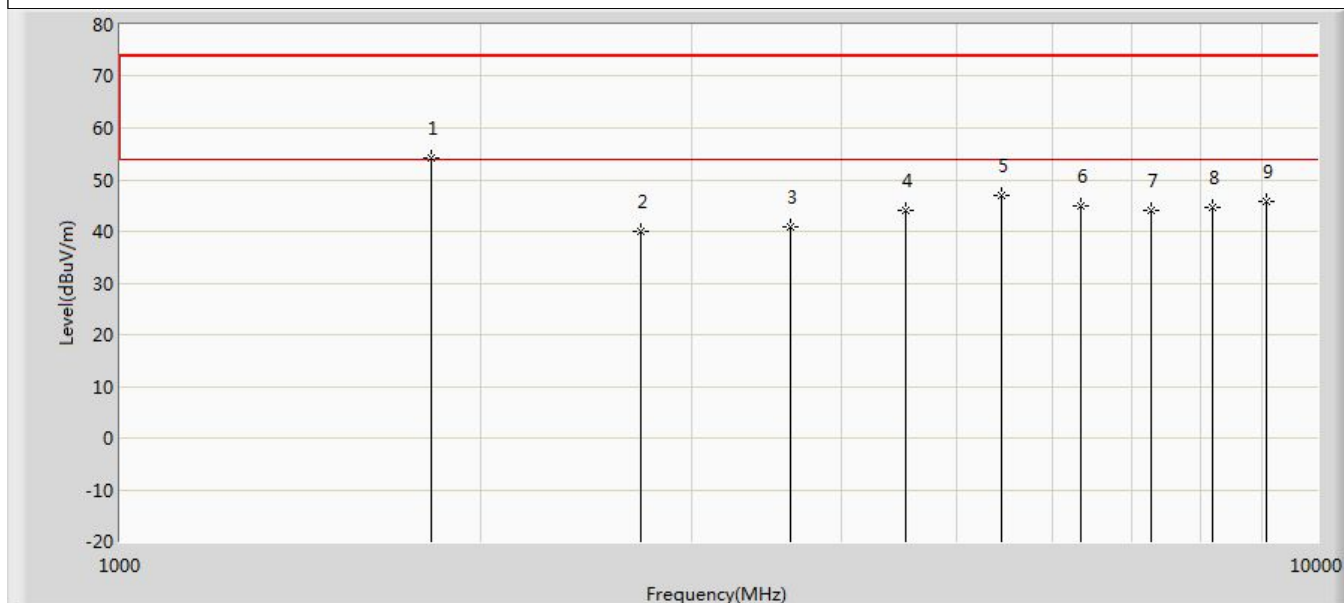
Profile: 2540161R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	58.291	69.906	-59.709	118.000	-11.615	PK
2		2719.000	43.848	52.618	-74.152	118.000	-8.770	PK
3		3631.200	40.496	47.204	-33.504	74.000	-6.709	PK
4		4537.000	46.757	51.498	-27.243	74.000	-4.741	PK
5		5446.000	47.421	49.759	-26.579	74.000	-2.338	PK
6		6354.600	44.835	45.948	-73.165	118.000	-1.112	PK
7		7262.400	44.026	44.537	-73.974	118.000	-0.511	PK
8		8170.200	44.736	44.611	-29.264	74.000	0.125	PK
9		9078.000	45.119	44.916	-28.881	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

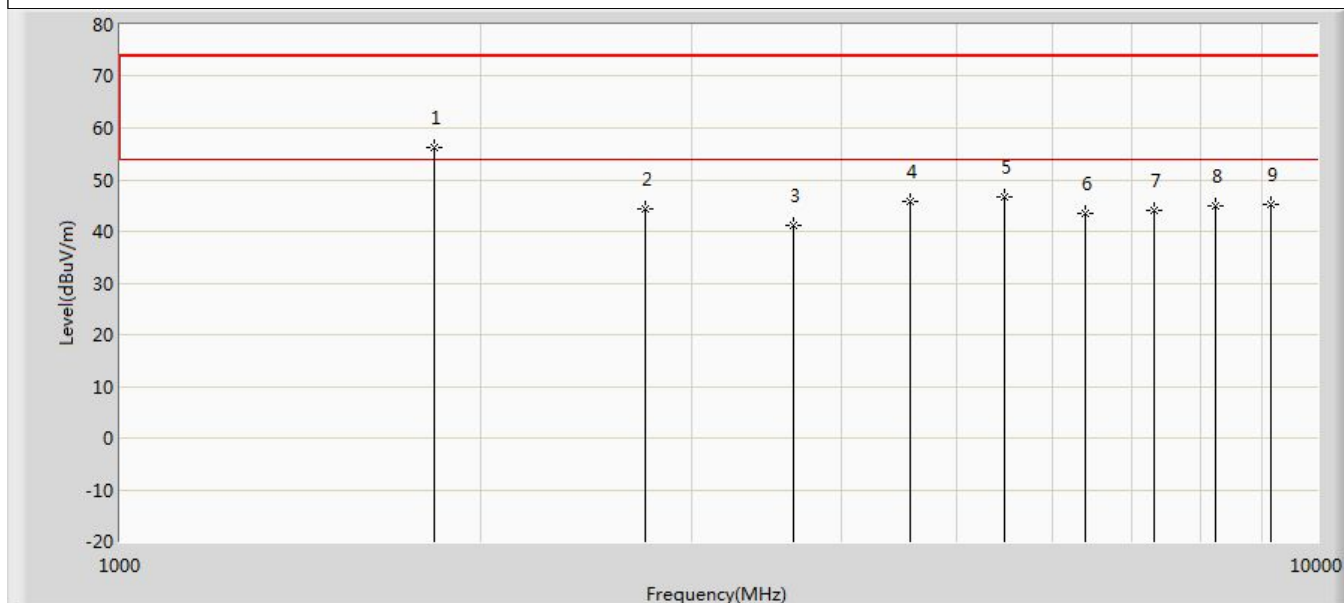
Profile: 2540161R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 907.8MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	54.135	65.750	-63.865	118.000	-11.615	PK
2		2723.400	40.093	48.903	-77.907	118.000	-8.810	PK
3		3631.200	40.985	47.693	-33.015	74.000	-6.709	PK
4		4537.000	44.104	48.845	-29.896	74.000	-4.741	PK
5		5446.000	46.990	49.328	-27.010	74.000	-2.338	PK
6		6354.600	44.834	45.947	-73.166	118.000	-1.112	PK
7		7262.400	44.087	44.598	-73.913	118.000	-0.511	PK
8		8170.200	44.761	44.636	-29.239	74.000	0.125	PK
9		9078.000	45.750	45.547	-28.250	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

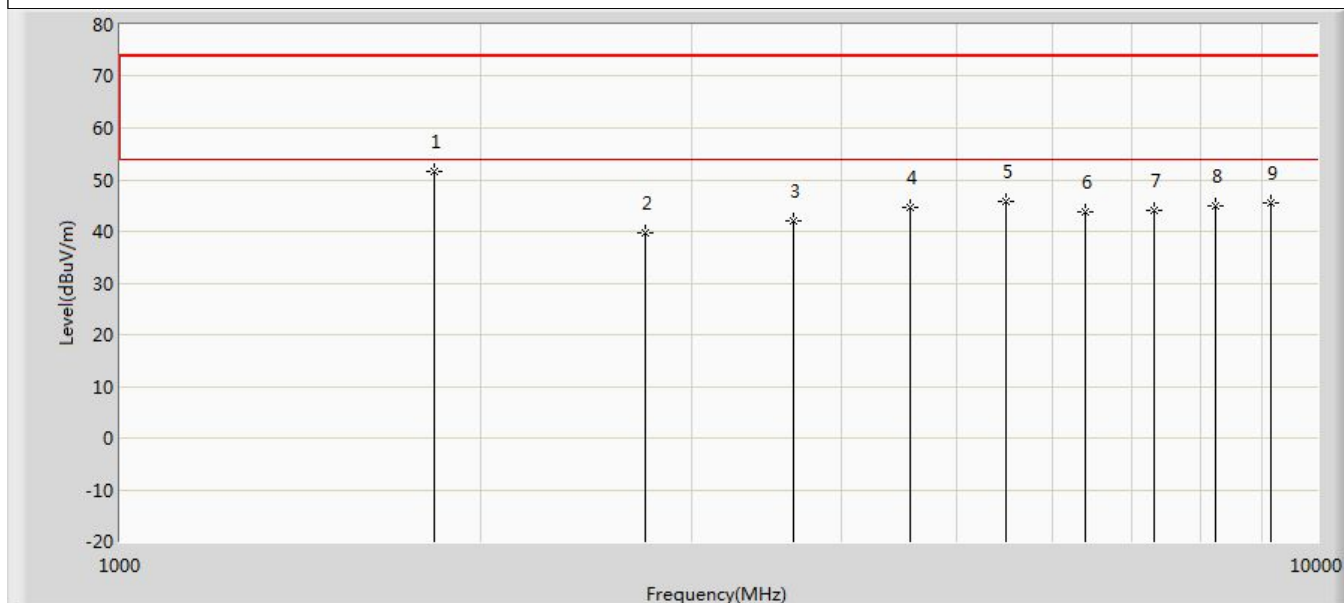
Profile: 2540161R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.167	67.502	-61.833	118.000	-11.335	PK
2		2746.000	44.257	52.977	-73.743	118.000	-8.721	PK
3		3656.800	41.202	47.446	-32.798	74.000	-6.244	PK
4		4573.000	45.819	50.018	-28.181	74.000	-4.200	PK
5		5482.000	46.531	49.118	-27.469	74.000	-2.587	PK
6		6399.400	43.543	44.865	-74.457	118.000	-1.323	PK
7		7313.600	44.128	44.870	-73.872	118.000	-0.741	PK
8		8227.800	44.843	44.590	-29.157	74.000	0.253	PK
9		9142.000	45.262	44.531	-28.738	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

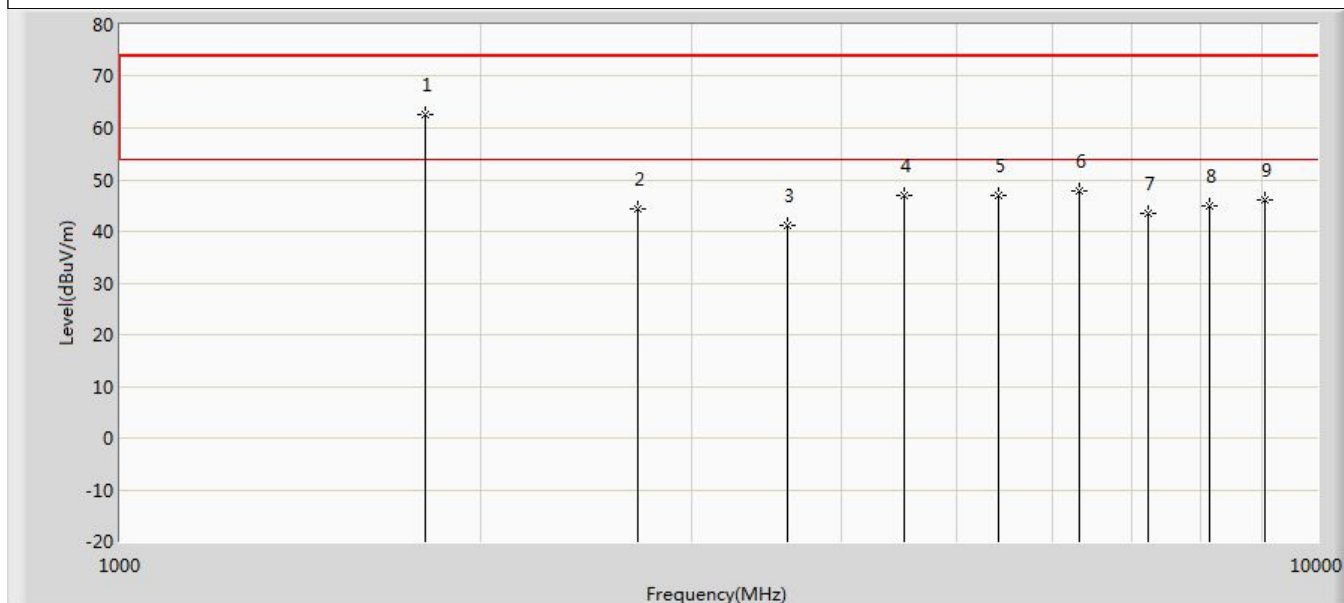
Profile: 2540161R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 2: Transmit at 914.2MHz by LoRa 500K	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	51.461	62.796	-66.539	118.000	-11.335	PK
2		2742.600	39.715	48.488	-78.285	118.000	-8.774	PK
3		3656.800	42.024	48.268	-31.976	74.000	-6.244	PK
4		4573.000	44.610	48.809	-29.390	74.000	-4.200	PK
5		5491.000	45.654	48.295	-28.346	74.000	-2.641	PK
6		6399.400	43.734	45.056	-74.266	118.000	-1.323	PK
7		7313.600	44.075	44.817	-73.925	118.000	-0.741	PK
8		8227.800	44.924	44.671	-29.076	74.000	0.253	PK
9		9142.000	45.480	44.749	-28.520	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

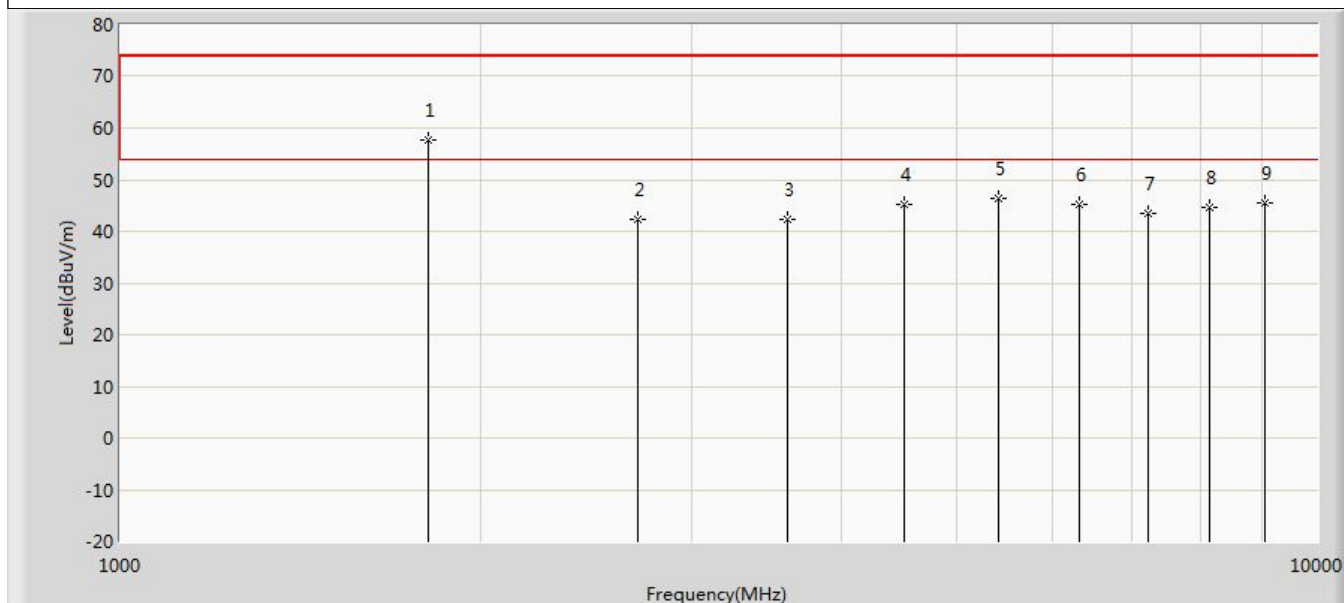
Profile: 2540161R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	62.563	74.236	-55.437	118.000	-11.672	PK
2		2710.000	44.245	52.983	-73.755	118.000	-8.739	PK
3		3612.000	41.187	47.787	-32.813	74.000	-6.600	PK
4		4519.000	47.048	50.696	-26.952	74.000	-3.648	PK
5		5419.000	46.897	49.371	-27.103	74.000	-2.474	PK
6		6319.000	47.712	48.280	-70.288	118.000	-0.569	PK
7		7224.000	43.545	44.190	-74.455	118.000	-0.646	PK
8		8127.000	44.853	44.866	-29.147	74.000	-0.014	PK
9		9030.000	45.982	45.481	-28.018	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

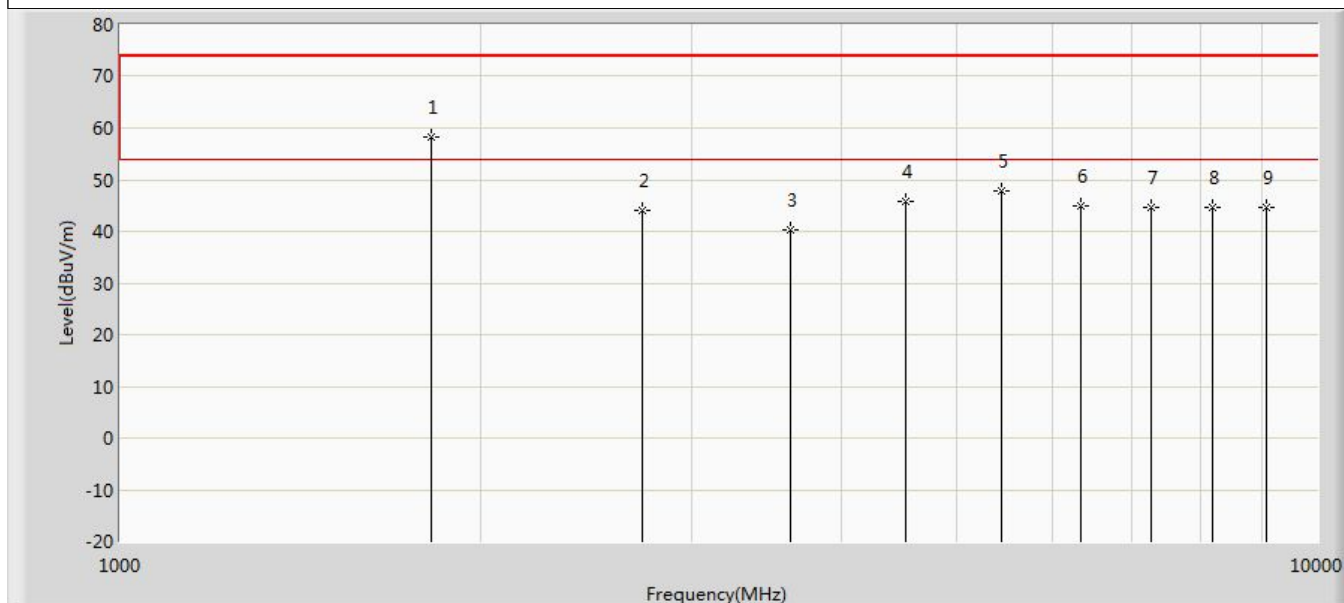
Profile: 2540161R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 903MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1810.000	57.744	69.438	-60.256	118.000	-11.694	PK
2		2710.000	42.256	50.994	-75.744	118.000	-8.739	PK
3		3612.000	42.240	48.840	-31.760	74.000	-6.600	PK
4		4519.000	45.268	48.916	-28.732	74.000	-3.648	PK
5		5419.000	46.239	48.713	-27.761	74.000	-2.474	PK
6		6321.000	45.201	45.709	-72.799	118.000	-0.508	PK
7		7224.000	43.407	44.052	-74.593	118.000	-0.646	PK
8		8127.000	44.581	44.594	-29.419	74.000	-0.014	PK
9		9030.000	45.588	45.087	-28.412	74.000	0.501	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

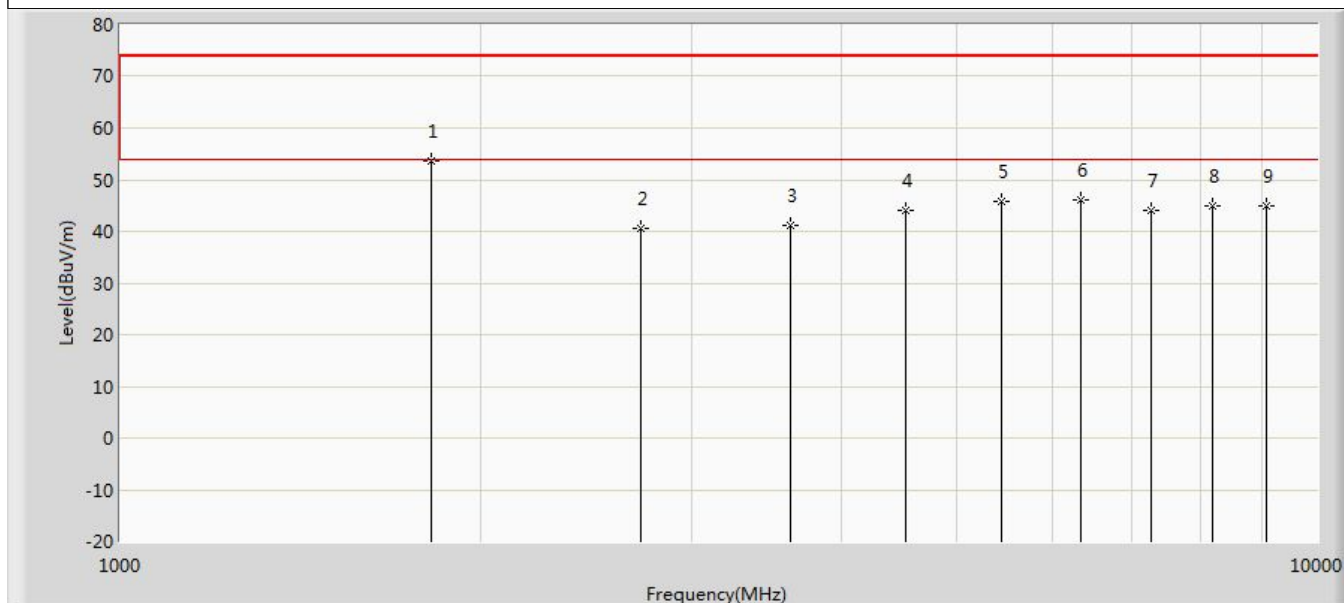
Profile: 2540161R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	58.285	69.900	-59.715	118.000	-11.615	PK
2		2728.000	44.163	53.015	-73.837	118.000	-8.852	PK
3		3631.200	40.428	47.136	-33.572	74.000	-6.709	PK
4		4537.000	45.859	50.600	-28.141	74.000	-4.741	PK
5		5446.000	47.780	50.118	-26.220	74.000	-2.338	PK
6		6354.600	44.865	45.978	-73.135	118.000	-1.112	PK
7		7262.400	44.617	45.128	-73.383	118.000	-0.511	PK
8		8170.200	44.619	44.494	-29.381	74.000	0.125	PK
9		9078.000	44.761	44.558	-29.239	74.000	0.203	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

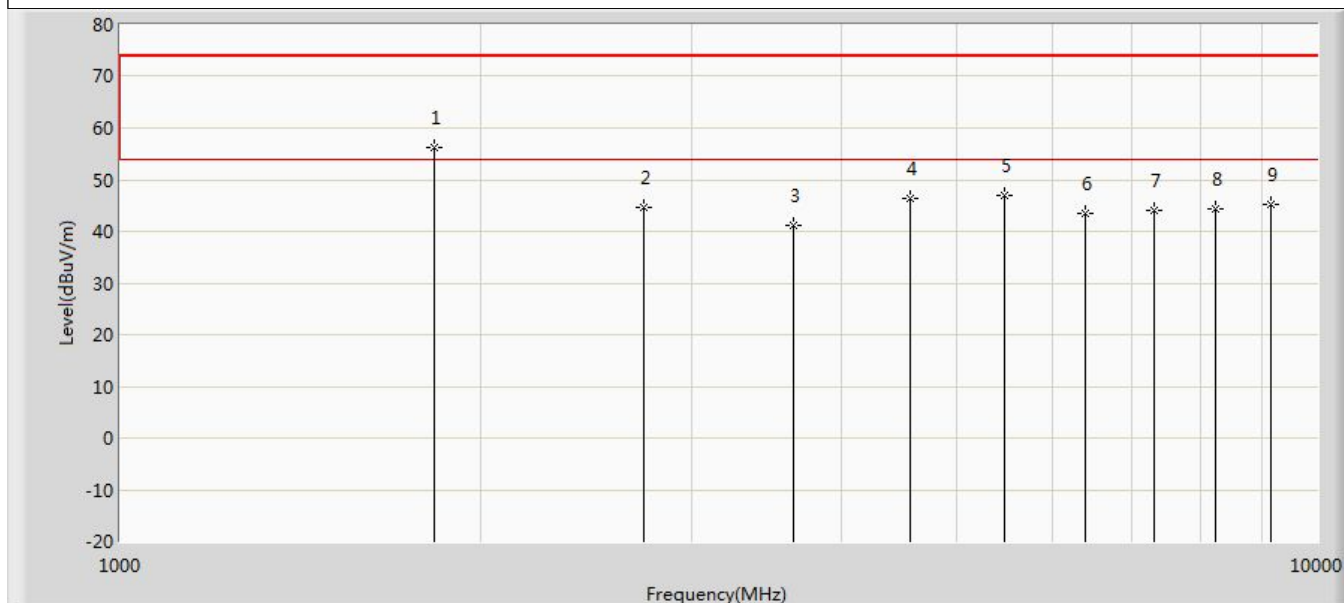
Profile: 2540161R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 907.8MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1819.000	53.645	65.260	-64.355	118.000	-11.615	PK
2		2723.400	40.667	49.477	-77.333	118.000	-8.810	PK
3		3631.200	41.132	47.840	-32.868	74.000	-6.709	PK
4		4537.000	43.946	48.687	-30.054	74.000	-4.741	PK
5		5446.000	45.817	48.155	-28.183	74.000	-2.338	PK
6		6355.000	46.227	47.352	-71.773	118.000	-1.125	PK
7		7262.400	44.183	44.694	-73.817	118.000	-0.511	PK
8		8170.200	44.846	44.721	-29.154	74.000	0.125	PK
9		9078.000	44.885	44.682	-29.115	74.000	0.203	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

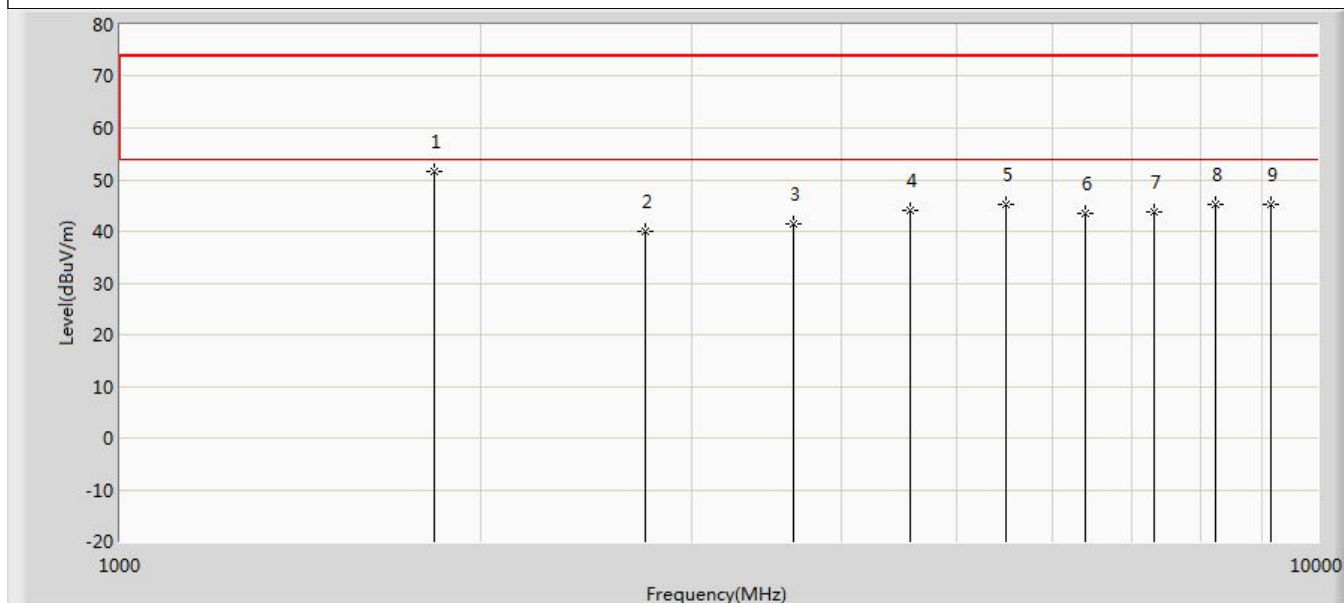
Profile: 2540161R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	56.349	67.684	-61.651	118.000	-11.335	PK
2		2737.000	44.494	53.354	-73.506	118.000	-8.861	PK
3		3656.800	41.276	47.520	-32.724	74.000	-6.244	PK
4		4573.000	46.328	50.527	-27.672	74.000	-4.200	PK
5		5482.000	47.039	49.626	-26.961	74.000	-2.587	PK
6		6399.400	43.347	44.669	-74.653	118.000	-1.323	PK
7		7313.600	44.085	44.827	-73.915	118.000	-0.741	PK
8		8227.800	44.433	44.180	-29.567	74.000	0.253	PK
9		9142.000	45.121	44.390	-28.879	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

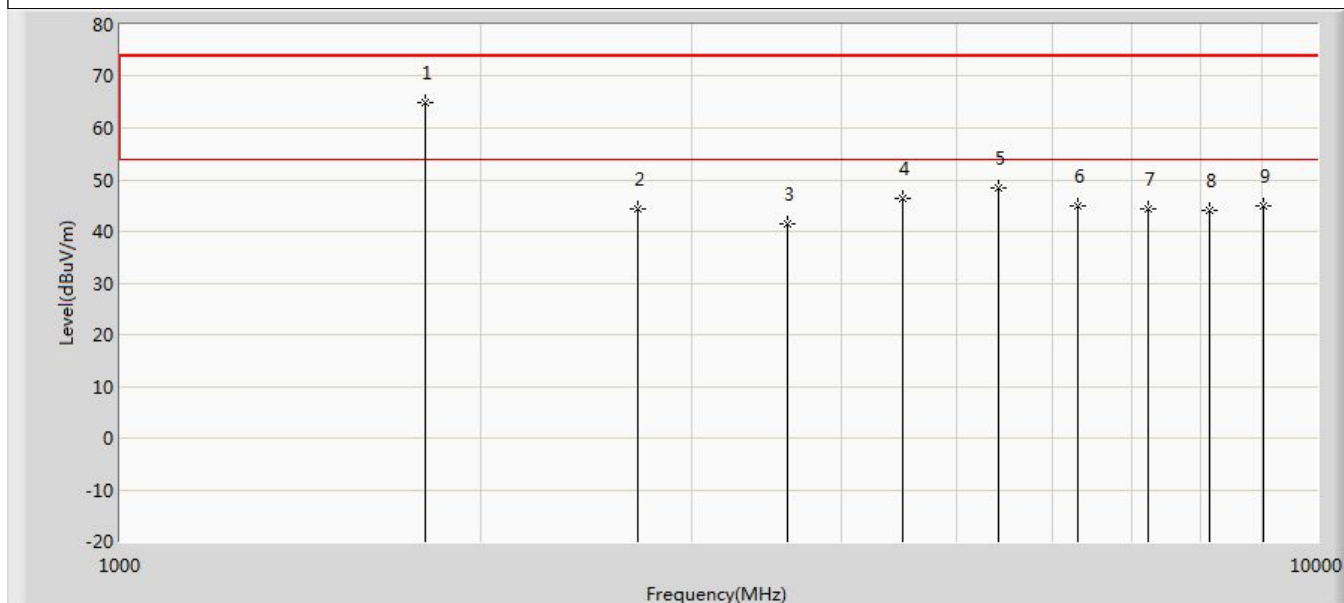
Profile: 2540161R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/16 - 01:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 3: Transmit at 914.2MHz by LoRa FHSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	51.576	62.911	-66.424	118.000	-11.335	PK
2		2742.600	40.103	48.876	-77.897	118.000	-8.774	PK
3		3656.800	41.335	47.579	-32.665	74.000	-6.244	PK
4		4573.000	43.995	48.194	-30.005	74.000	-4.200	PK
5		5491.000	45.240	47.881	-28.760	74.000	-2.641	PK
6		6399.400	43.521	44.843	-74.479	118.000	-1.323	PK
7		7313.600	43.863	44.605	-74.137	118.000	-0.741	PK
8		8227.800	45.090	44.837	-28.910	74.000	0.253	PK
9		9142.000	45.237	44.506	-28.763	74.000	0.731	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

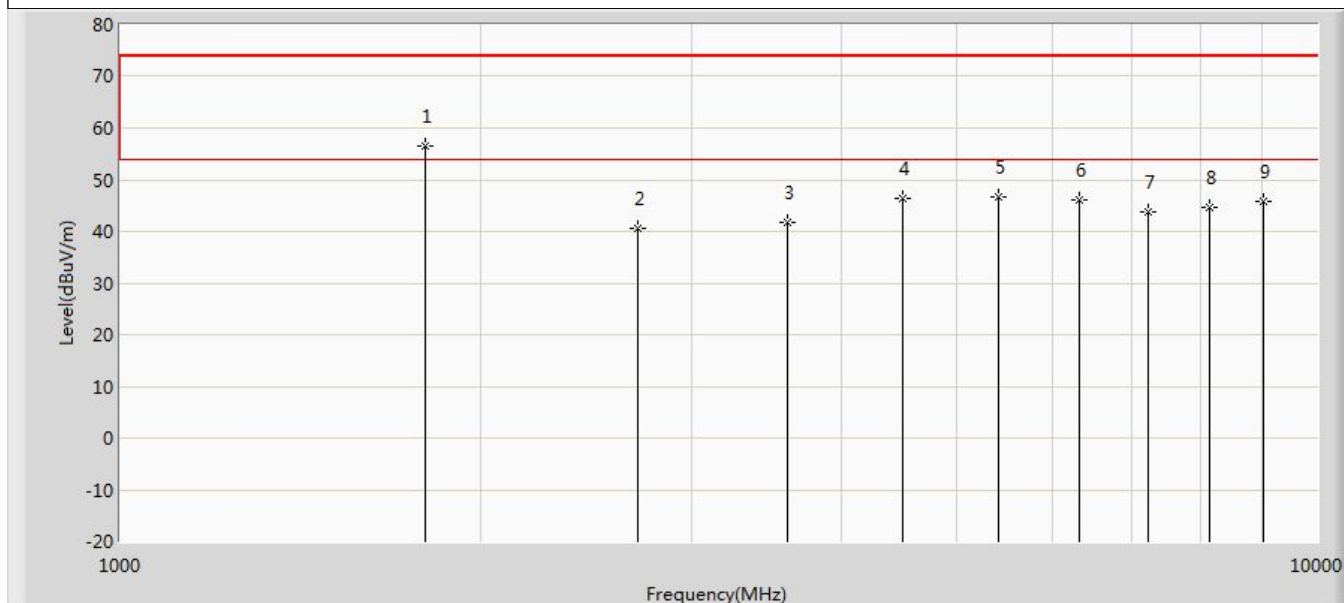
Profile: 2540161R	Page No.: 49
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	65.031	76.704	-52.969	118.000	-11.672	PK
2		2710.000	44.420	53.158	-73.580	118.000	-8.739	PK
3		3610.000	41.435	48.073	-32.565	74.000	-6.638	PK
4		4510.000	46.337	50.353	-27.663	74.000	-4.016	PK
5		5419.000	48.446	50.920	-25.554	74.000	-2.474	PK
6		6317.500	44.942	45.555	-73.058	118.000	-0.613	PK
7		7220.000	44.277	44.953	-73.723	118.000	-0.677	PK
8		8122.500	44.175	44.084	-29.825	74.000	0.091	PK
9		9025.000	45.035	44.569	-28.965	74.000	0.466	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

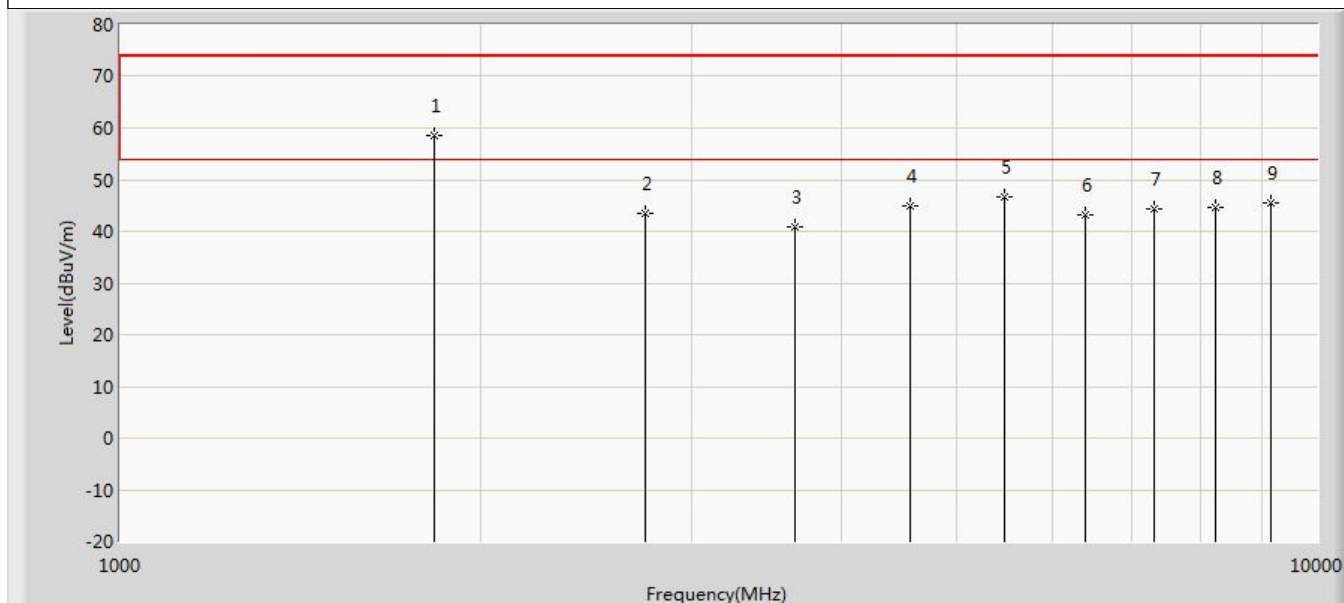
Profile: 2540161R	Page No.: 50
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 902.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	56.578	68.251	-61.422	118.000	-11.672	PK
2		2707.500	40.435	49.169	-77.565	118.000	-8.734	PK
3		3610.000	41.649	48.287	-32.351	74.000	-6.638	PK
4		4510.000	46.434	50.450	-27.566	74.000	-4.016	PK
5		5419.000	46.600	49.074	-27.400	74.000	-2.474	PK
6		6319.000	46.215	46.783	-71.785	118.000	-0.569	PK
7		7220.000	43.892	44.568	-74.108	118.000	-0.677	PK
8		8122.500	44.668	44.577	-29.332	74.000	0.091	PK
9		9025.000	45.747	45.281	-28.253	74.000	0.466	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

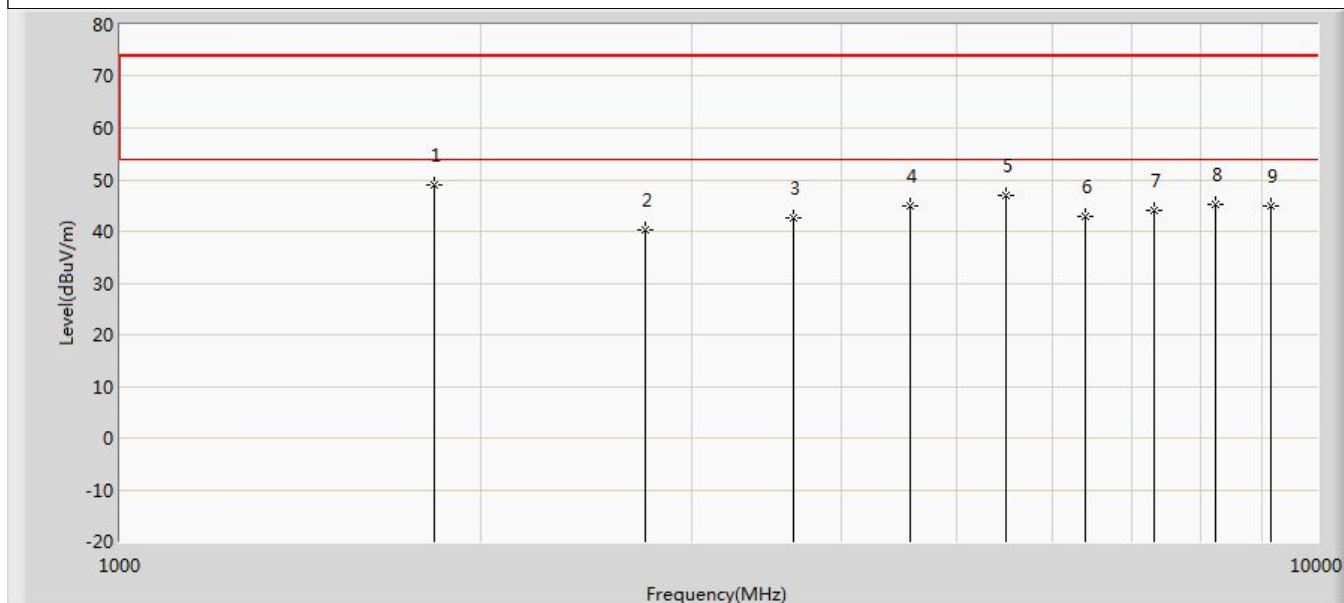
Profile: 2540161R	Page No.: 51
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	58.673	70.008	-59.327	118.000	-11.335	PK
2		2746.000	43.410	52.130	-74.590	118.000	-8.721	PK
3		3658.000	40.980	47.242	-33.020	74.000	-6.262	PK
4		4573.000	44.856	49.055	-29.144	74.000	-4.200	PK
5		5482.000	46.706	49.293	-27.294	74.000	-2.587	PK
6		6401.500	43.207	44.598	-74.793	118.000	-1.391	PK
7		7316.000	44.347	45.128	-73.653	118.000	-0.781	PK
8		8230.500	44.781	44.426	-29.219	74.000	0.354	PK
9		9145.000	45.392	44.715	-28.608	74.000	0.677	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

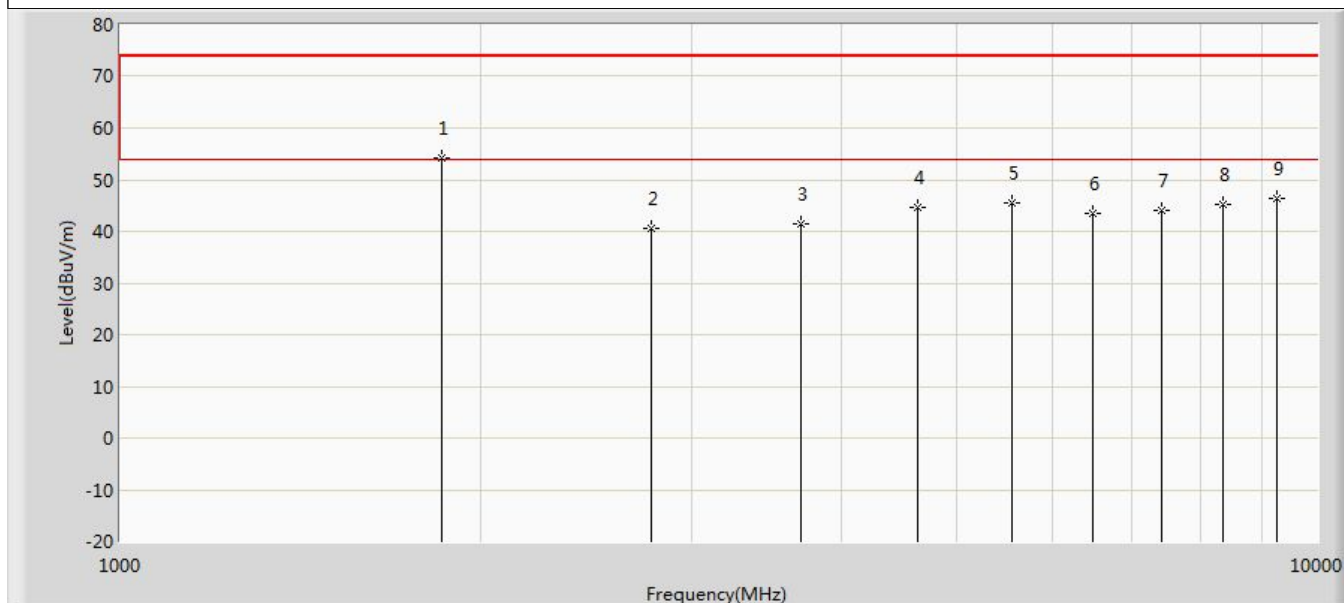
Profile: 2540161R	Page No.: 52
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 914.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	48.925	60.260	-69.075	118.000	-11.335	PK
2		2743.500	40.333	49.092	-77.667	118.000	-8.759	PK
3		3655.000	42.607	48.823	-31.393	74.000	-6.216	PK
4		4573.000	44.876	49.075	-29.124	74.000	-4.200	PK
5		5491.000	46.905	49.546	-27.095	74.000	-2.641	PK
6		6401.500	42.946	44.337	-75.054	118.000	-1.391	PK
7		7316.000	43.949	44.730	-70.051	118.000	-0.781	PK
8		8230.500	45.311	44.956	-28.689	74.000	0.354	PK
9		9145.000	44.862	44.185	-29.138	74.000	0.677	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

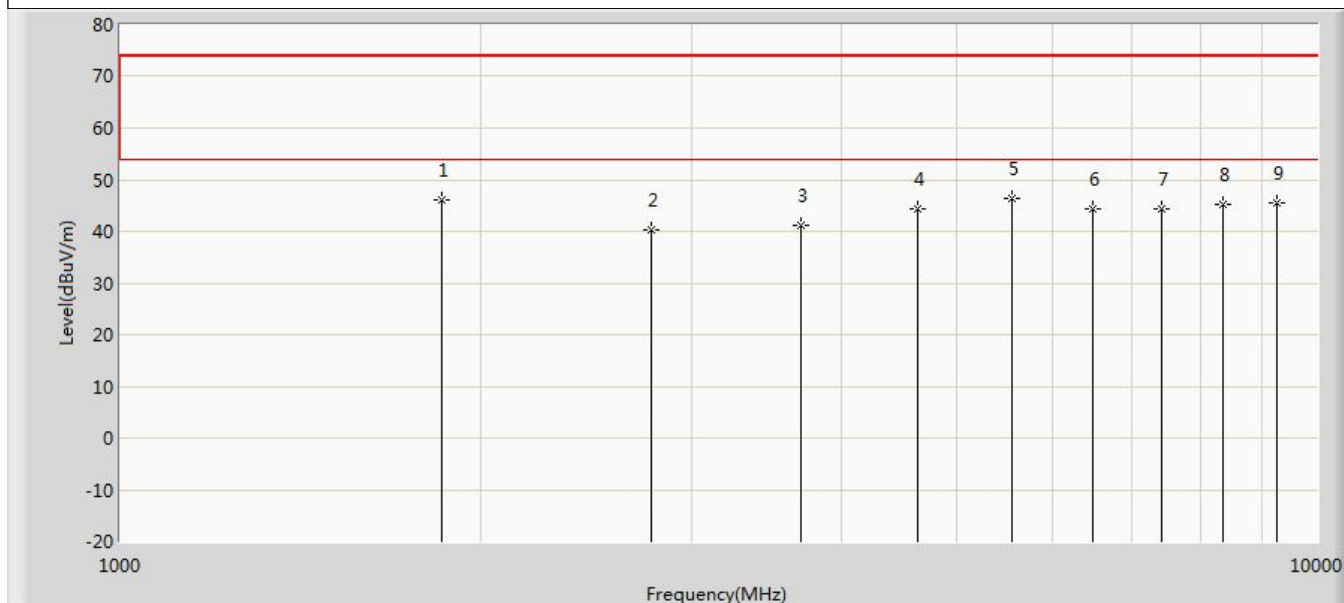
Profile: 2540161R	Page No.: 53
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	54.211	65.339	-63.789	118.000	-11.128	PK
2		2779.500	40.461	49.328	-77.539	118.000	-8.867	PK
3		3706.000	41.488	47.837	-32.512	74.000	-6.349	PK
4		4636.000	44.542	48.785	-29.458	74.000	-4.243	PK
5		5554.000	45.398	47.543	-28.602	74.000	-2.145	PK
6		6485.500	43.452	44.379	-74.548	118.000	-0.927	PK
7		7412.000	44.090	44.570	-73.910	118.000	-0.480	PK
8		8338.500	45.160	44.525	-28.840	74.000	0.635	PK
9		9265.000	46.386	45.308	-27.614	74.000	1.078	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

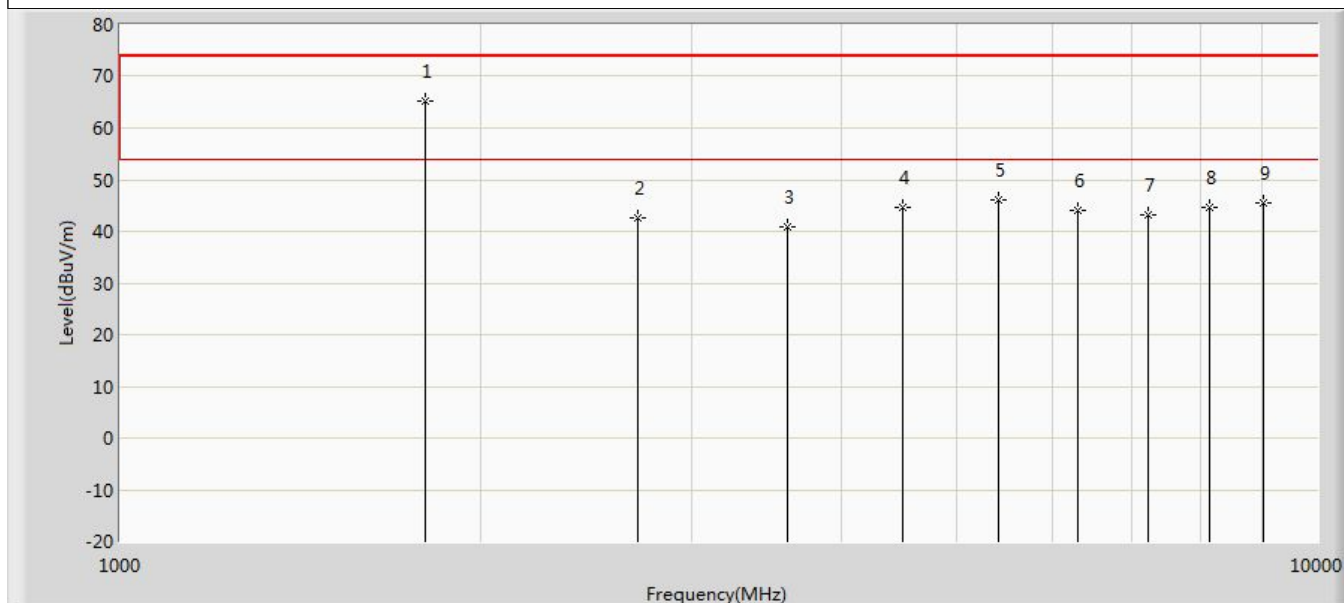
Profile: 2540161R	Page No.: 54
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 4: Transmit at 926.5MHz by SubG CSS	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		1855.000	46.125	57.253	-71.875	118.000	-11.128	PK
2		2779.500	40.272	49.139	-77.728	118.000	-8.867	PK
3		3706.000	41.211	47.560	-32.789	74.000	-6.349	PK
4		4636.000	44.379	48.622	-29.621	74.000	-4.243	PK
5	*	5563.000	46.413	48.735	-27.587	74.000	-2.321	PK
6		6485.500	44.209	45.136	-73.791	118.000	-0.927	PK
7		7412.000	44.293	44.773	-73.707	118.000	-0.480	PK
8		8338.500	45.354	44.719	-28.646	74.000	0.635	PK
9		9265.000	45.368	44.290	-28.632	74.000	1.078	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

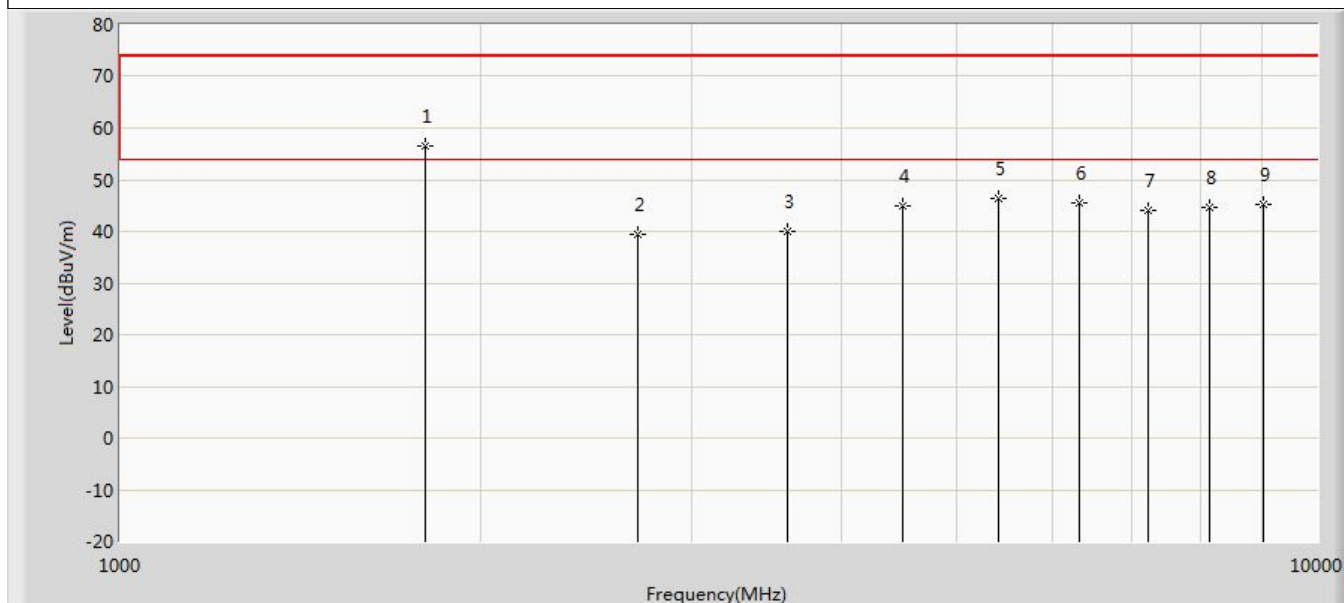
Profile: 2540161R	Page No.: 55
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	65.196	76.869	-52.804	118.000	-11.672	PK
2		2710.000	42.644	51.382	-75.356	118.000	-8.739	PK
3		3608.800	40.784	47.445	-33.216	74.000	-6.661	PK
4		4510.000	44.654	48.670	-29.346	74.000	-4.016	PK
5		5410.000	46.074	48.675	-27.926	74.000	-2.601	PK
6		6315.400	43.996	44.672	-74.004	118.000	-0.676	PK
7		7217.600	43.200	43.824	-74.800	118.000	-0.624	PK
8		8119.800	44.773	44.639	-29.227	74.000	0.134	PK
9		9022.000	45.547	44.967	-28.453	74.000	0.580	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

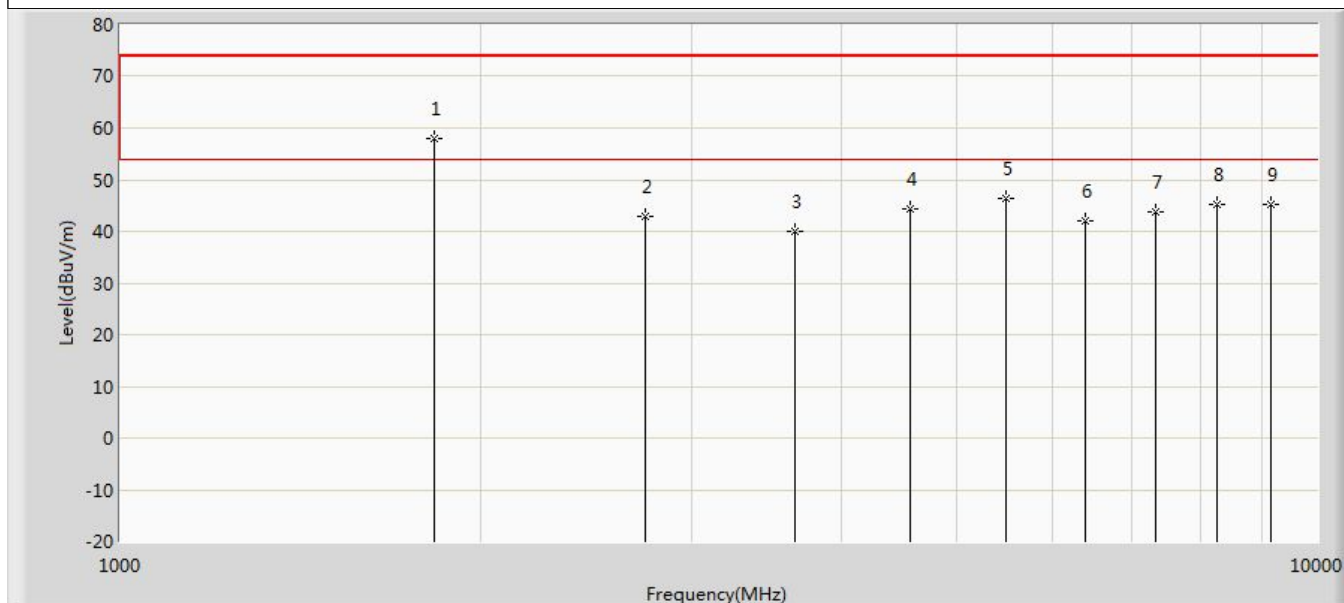
Profile: 2540161R	Page No.: 56
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 902.2MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1801.000	56.495	68.168	-61.505	118.000	-11.672	PK
2		2706.600	39.551	48.283	-78.449	118.000	-8.732	PK
3		3608.800	39.899	46.560	-34.101	74.000	-6.661	PK
4		4510.000	44.865	48.881	-29.135	74.000	-4.016	PK
5		5410.000	46.332	48.933	-27.668	74.000	-2.601	PK
6		6319.000	45.408	45.976	-72.592	118.000	-0.569	PK
7		7217.600	43.922	44.546	-74.078	118.000	-0.624	PK
8		8119.800	44.613	44.479	-29.387	74.000	0.134	PK
9		9022.000	45.253	44.673	-28.747	74.000	0.580	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

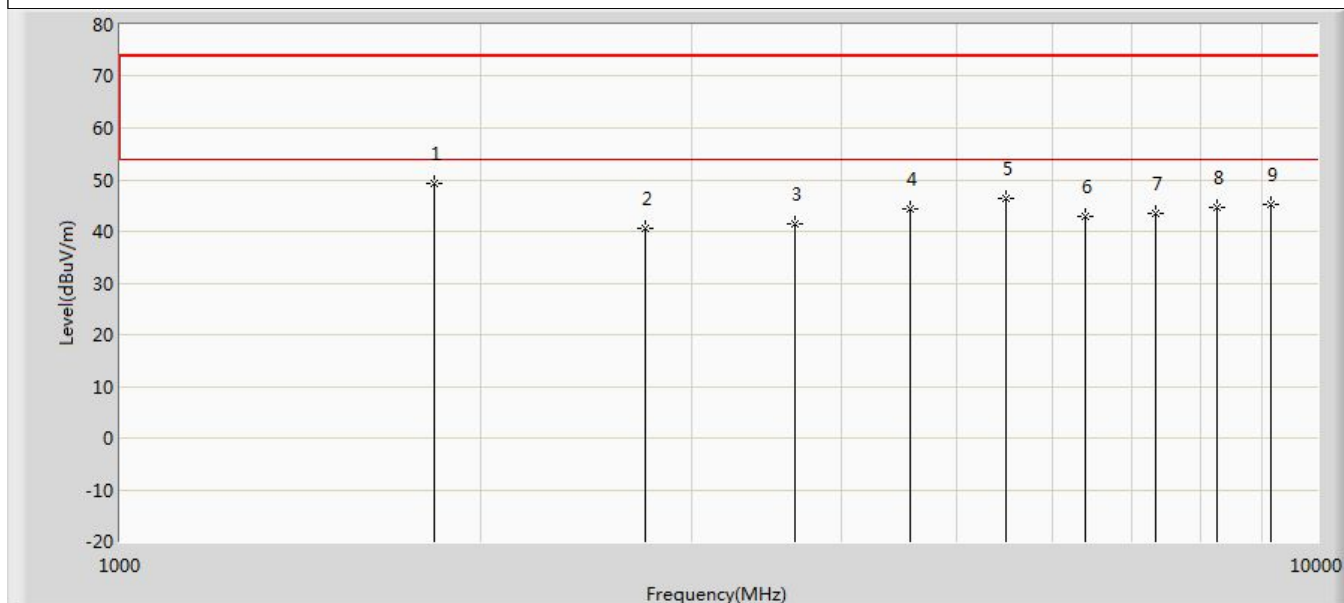
Profile: 2540161R	Page No.: 57
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	58.073	69.408	-59.927	118.000	-11.335	PK
2		2746.000	42.925	51.645	-75.075	118.000	-8.721	PK
3		3660.000	40.103	46.397	-33.897	74.000	-6.294	PK
4		4573.000	44.249	48.448	-29.751	74.000	-4.200	PK
5		5491.000	46.302	48.943	-27.698	74.000	-2.641	PK
6		6405.000	42.039	43.546	-75.961	118.000	-1.507	PK
7		7320.000	43.719	44.566	-74.281	118.000	-0.847	PK
8		8235.000	45.121	44.597	-28.879	74.000	0.524	PK
9		9150.000	45.282	44.703	-28.718	74.000	0.578	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

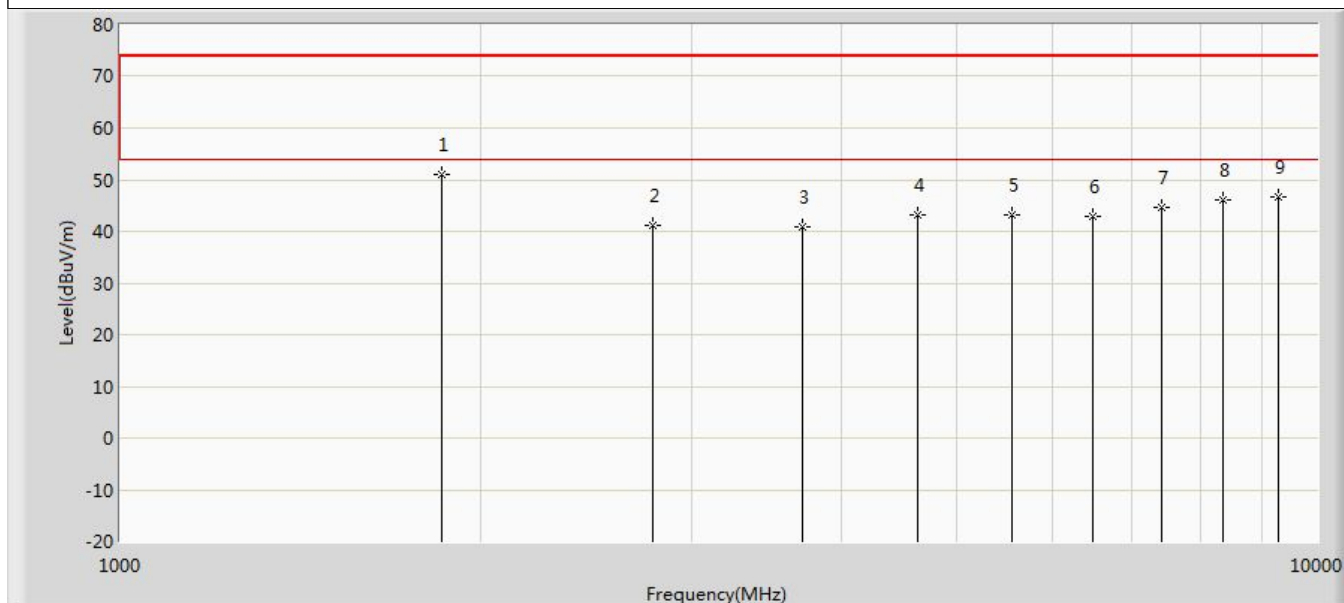
Profile: 2540161R	Page No.: 58
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 915MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1828.000	49.309	60.644	-68.691	118.000	-11.335	PK
2		2745.000	40.592	49.328	-77.408	118.000	-8.736	PK
3		3660.000	41.407	47.701	-32.593	74.000	-6.294	PK
4		4573.000	44.276	48.475	-29.724	74.000	-4.200	PK
5		5491.000	46.377	49.018	-27.623	74.000	-2.641	PK
6		6405.000	42.985	44.492	-75.015	118.000	-1.507	PK
7		7320.000	43.477	44.324	-74.523	118.000	-0.847	PK
8		8235.000	44.660	44.136	-29.340	74.000	0.524	PK
9		9150.000	45.207	44.628	-28.793	74.000	0.578	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

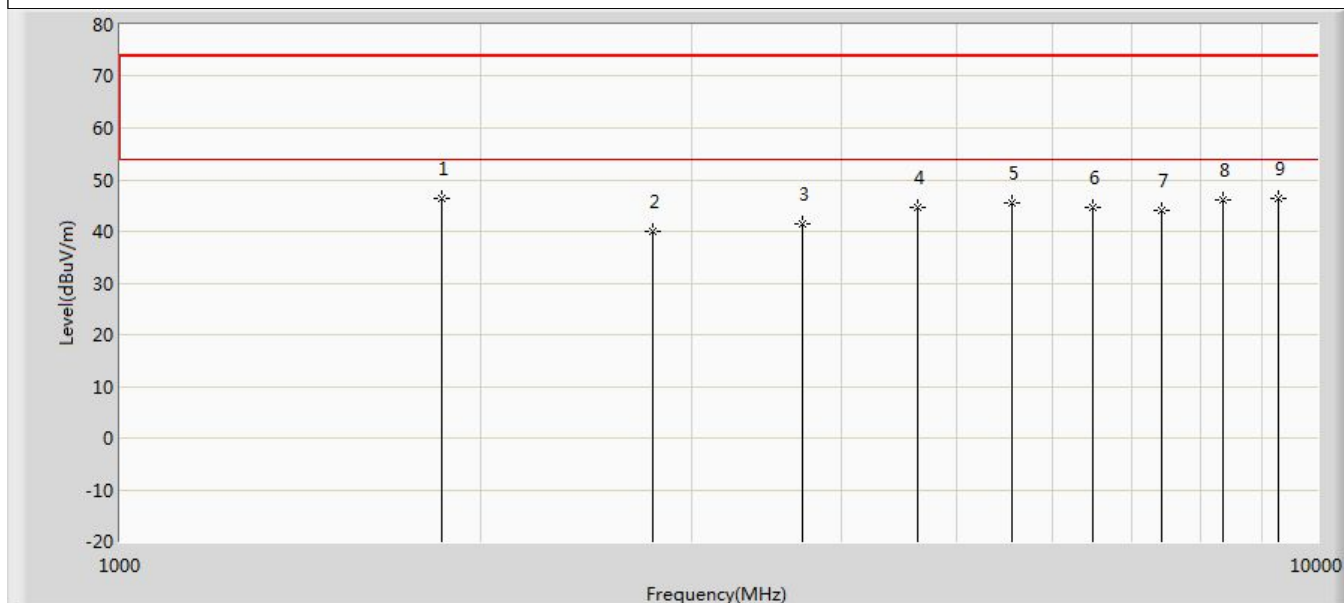
Profile: 2540161R	Page No.: 59
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by SubG FSK	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	50.947	62.075	-67.053	118.000	-11.128	PK
2		2783.400	41.136	50.094	-76.864	118.000	-8.957	PK
3		3711.200	40.779	47.036	-33.221	74.000	-6.257	PK
4		4639.000	43.157	47.379	-30.843	74.000	-4.222	PK
5		5566.800	43.110	45.533	-30.890	74.000	-2.423	PK
6		6494.600	42.980	43.884	-75.020	118.000	-0.905	PK
7		7422.400	44.561	44.959	-73.439	118.000	-0.398	PK
8		8350.200	46.013	45.394	-27.987	74.000	0.619	PK
9		9278.000	46.557	44.979	-27.443	74.000	1.577	PK

Note: Mark1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

Profile: 2540161R	Page No.: 60
Engineer: Yu Liu	
Site: AC5	Time: 2025/04/17 - 03:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055_(1-18GHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: Mode 5: Transmit at 927.8MHz by SubG FSK	



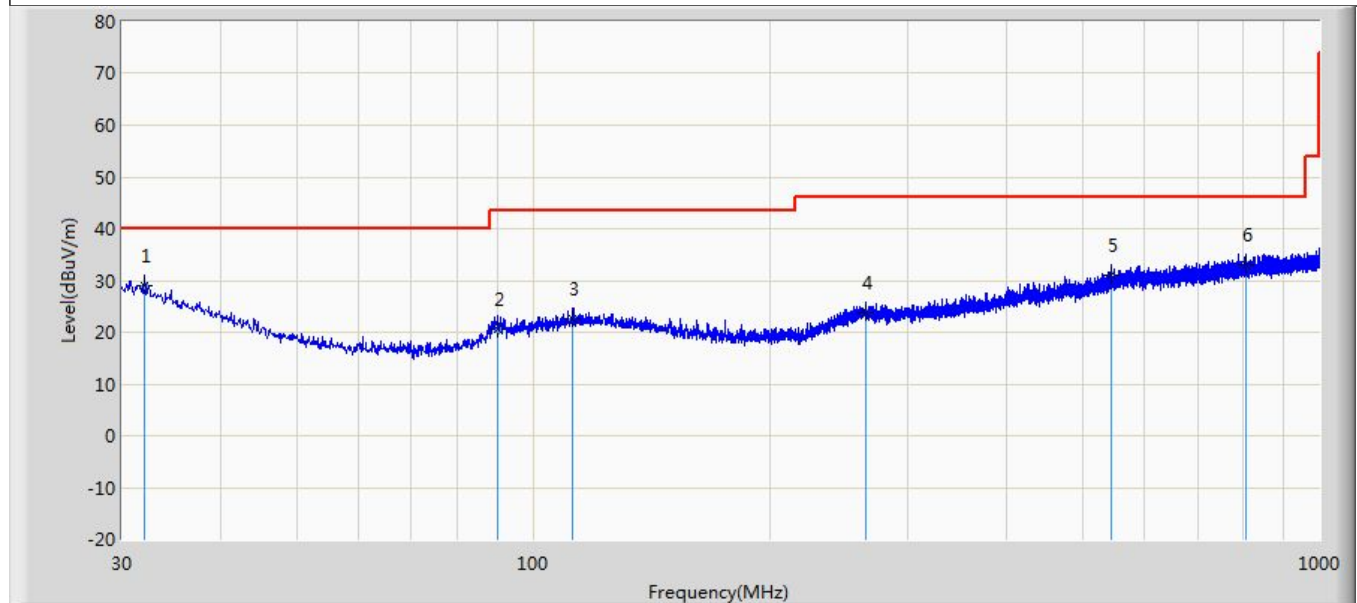
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	1855.000	46.332	57.460	-71.668	118.000	-11.128	PK
2		2783.400	39.858	48.816	-78.142	118.000	-8.957	PK
3		3711.200	41.386	47.643	-32.614	74.000	-6.257	PK
4		4636.000	44.695	48.938	-29.305	74.000	-4.243	PK
5		5563.000	45.526	47.848	-28.474	74.000	-2.321	PK
6		6494.600	44.622	45.526	-73.378	118.000	-0.905	PK
7		7422.400	44.066	44.464	-73.934	118.000	-0.398	PK
8		8350.200	46.008	45.389	-27.992	74.000	0.619	PK
9		9278.000	46.237	44.659	-27.763	74.000	1.577	PK

Note: Mark 1,2,6,7 fall within the unrestricted frequency band and their use limits are at least 20 dB lower than the maximum level of basic emissions. (Limit= (Peak conducted power+ Antenna gain) -20lg(d) +104.77≈ 118dBμv/m)

Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
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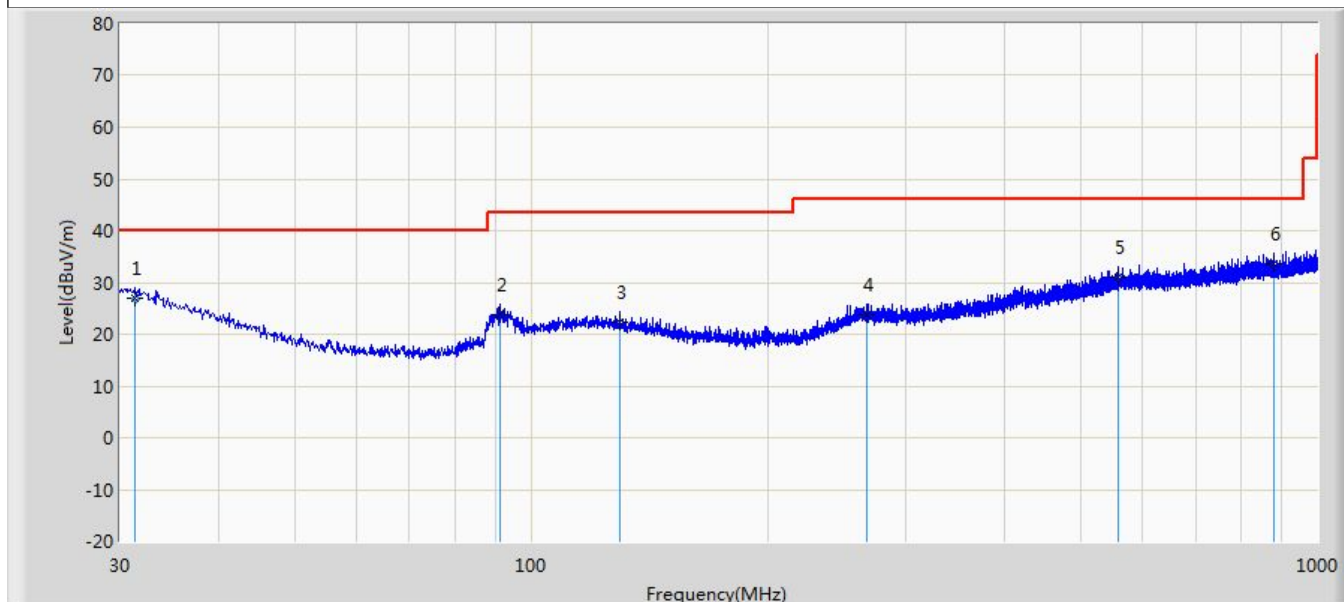
The worst case of Radiated Emission below 1GHz:

Profile: 2540161R	Page No.: 1
Engineer: Yu Liu	
Site: AC2	Time: 2025/04/14 - 21:19
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.061	29.034	4.811	-10.966	40.000	24.223	QP
2		90.261	20.711	4.516	-22.789	43.500	16.196	QP
3		112.450	22.585	3.510	-20.915	43.500	19.075	QP
4		264.983	23.763	2.820	-22.237	46.000	20.944	QP
5		543.979	30.944	3.978	-15.056	46.000	26.967	QP
6		808.304	33.154	3.758	-12.846	46.000	29.397	QP

Profile: 2540161R	Page No.: 2
Engineer: Yu Liu	
Site: AC2	Time: 2025/04/14 - 21:24
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1:Transmit at 914.2MHz by LoRa 500KHz bandwidth	

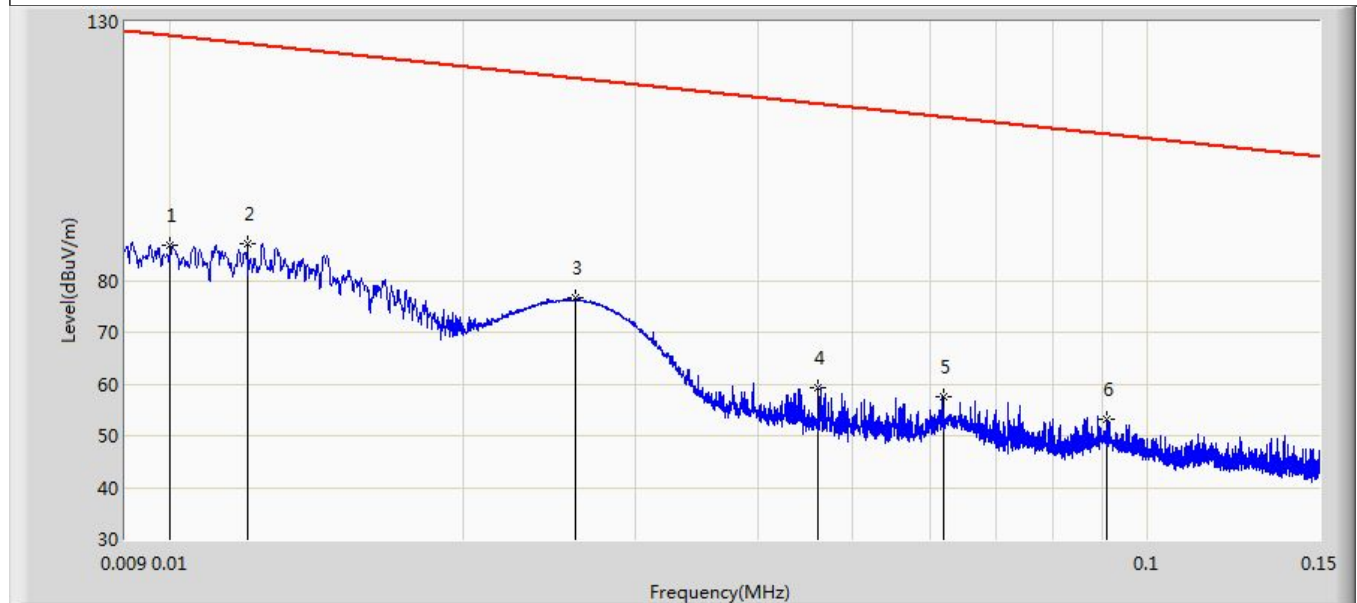


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		31.334	27.030	2.385	-12.970	40.000	24.645	QP
2		91.474	23.823	7.375	-19.677	43.500	16.448	QP
3		129.667	22.351	3.420	-21.149	43.500	18.932	QP
4		266.922	23.892	2.990	-22.108	46.000	20.902	QP
5		558.165	30.901	3.498	-15.099	46.000	27.403	QP
6	*	882.266	33.737	3.893	-12.263	46.000	29.844	QP

Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary. 4. We tested all the modes and showed the worst mode in the report.
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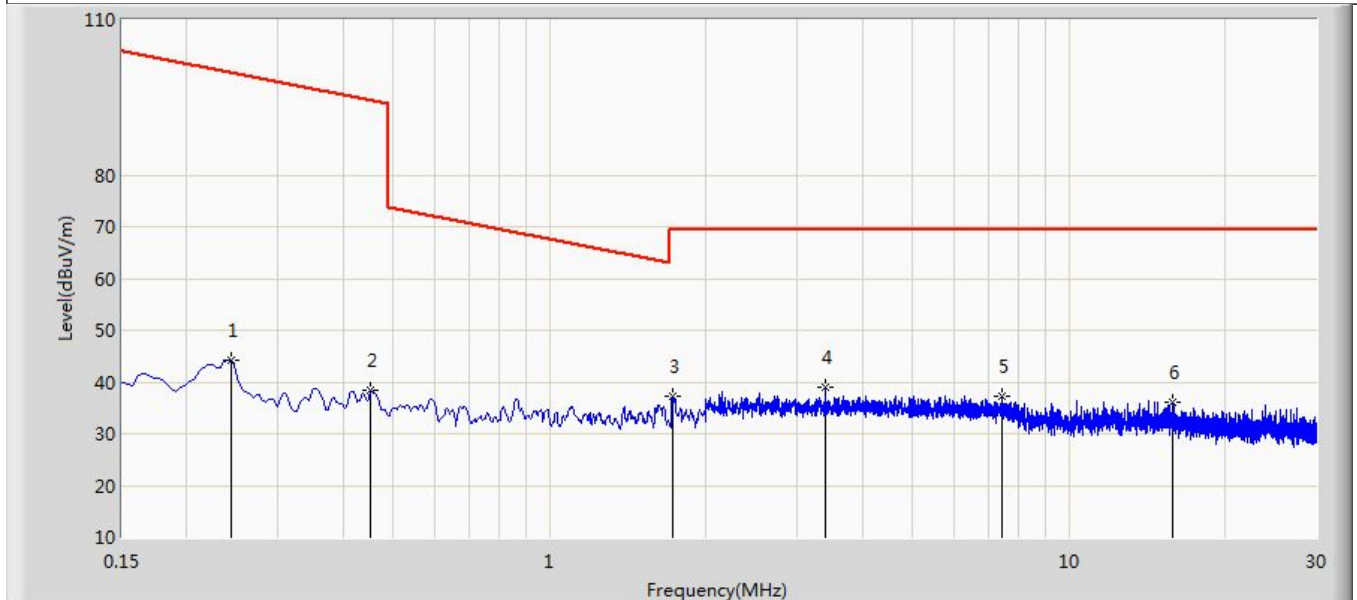
The worst case of Radiated Emission below 1GHz:

Profile: 2540161R	Page No.: 1
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 21:53
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: X-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-X:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



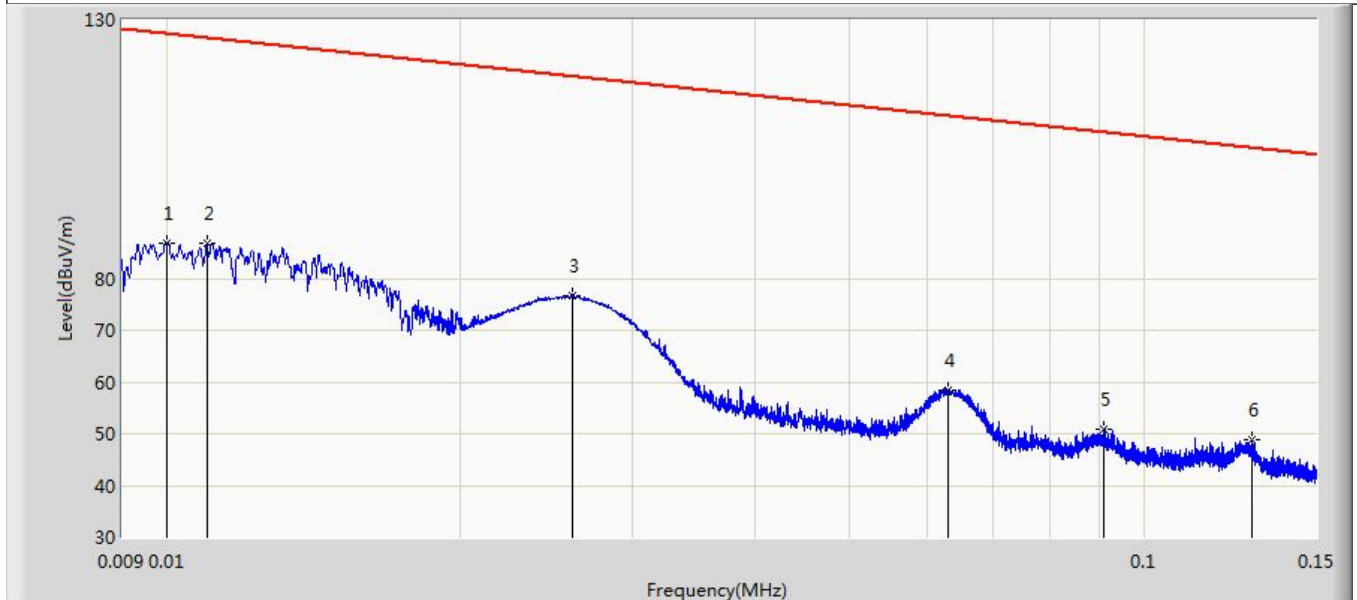
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.010	86.704	65.642	-40.781	127.485	21.062	PK
2	*	0.012	86.989	65.864	-38.914	125.903	21.125	PK
3		0.026	76.658	55.099	-42.532	119.190	21.559	PK
4		0.046	59.230	37.275	-55.008	114.237	21.955	PK
5		0.062	57.542	35.605	-54.104	111.646	21.937	PK
6		0.091	53.261	31.357	-55.054	108.315	21.904	PK

Profile: 2540161R	Page No.: 2
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 22:17
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: X-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-X:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



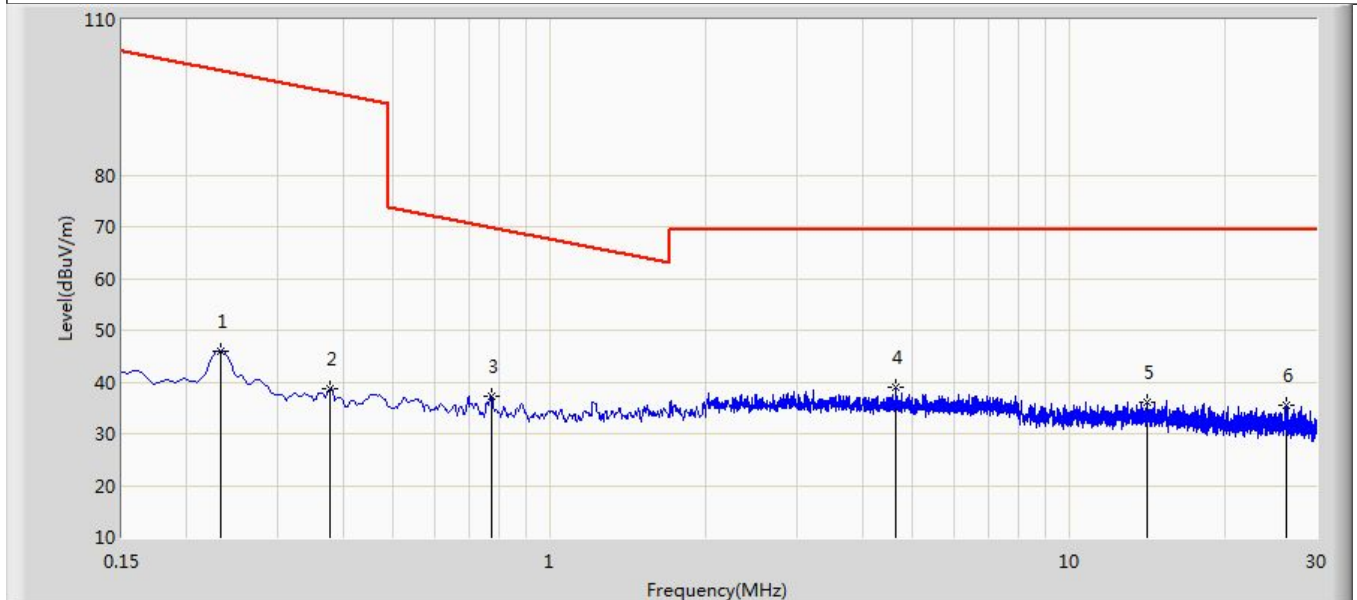
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.243	44.173	22.425	-55.616	99.788	21.748	PK
2		0.452	38.544	17.005	-55.857	94.401	21.539	PK
3		1.728	37.279	16.604	-32.121	69.400	20.676	PK
4	*	3.400	38.862	18.077	-30.538	69.400	20.785	PK
5		7.422	37.386	16.798	-32.014	69.400	20.588	PK
6		15.825	35.972	14.876	-33.428	69.400	21.095	PK

Profile: 2540161R	Page No.: 3
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 22:20
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Y-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-Y:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



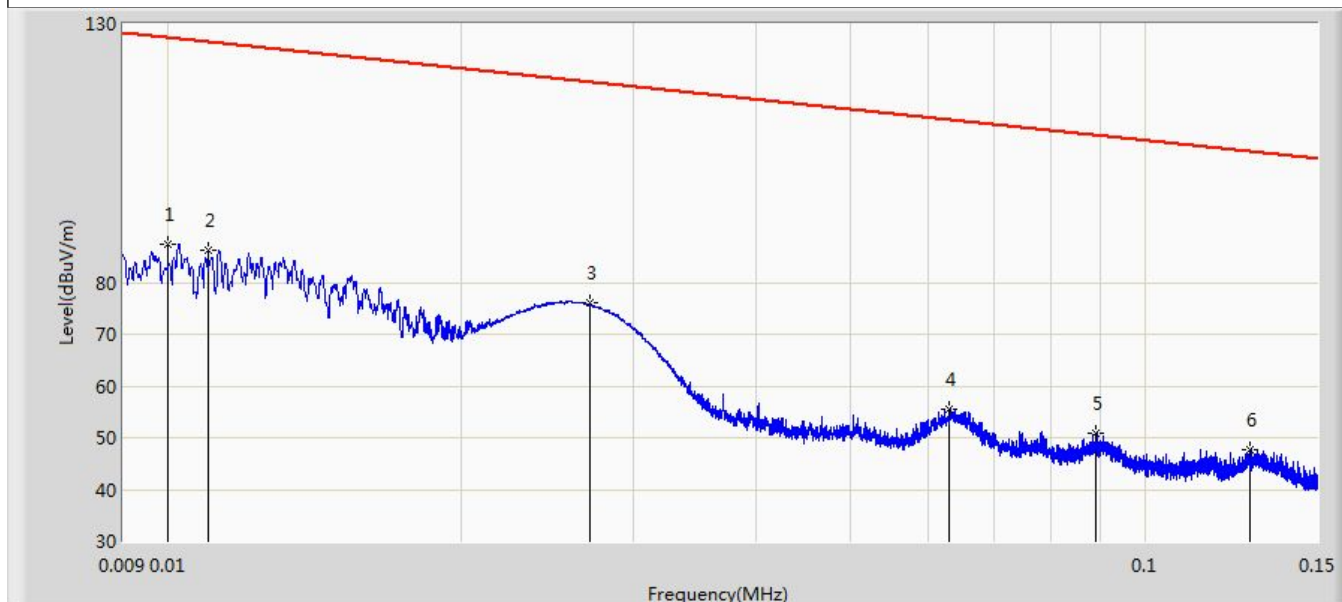
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.010	86.831	65.769	-40.654	127.485	21.062	PK
2	*	0.011	86.748	65.655	-39.909	126.658	21.094	PK
3		0.026	76.767	55.208	-42.423	119.190	21.559	PK
4		0.063	58.443	36.507	-53.064	111.507	21.936	PK
5		0.091	50.863	28.959	-57.452	108.315	21.904	PK
6		0.129	48.916	27.056	-56.369	105.286	21.860	PK

Profile: 2540161R	Page No.: 4
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 22:23
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Y-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-Y:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



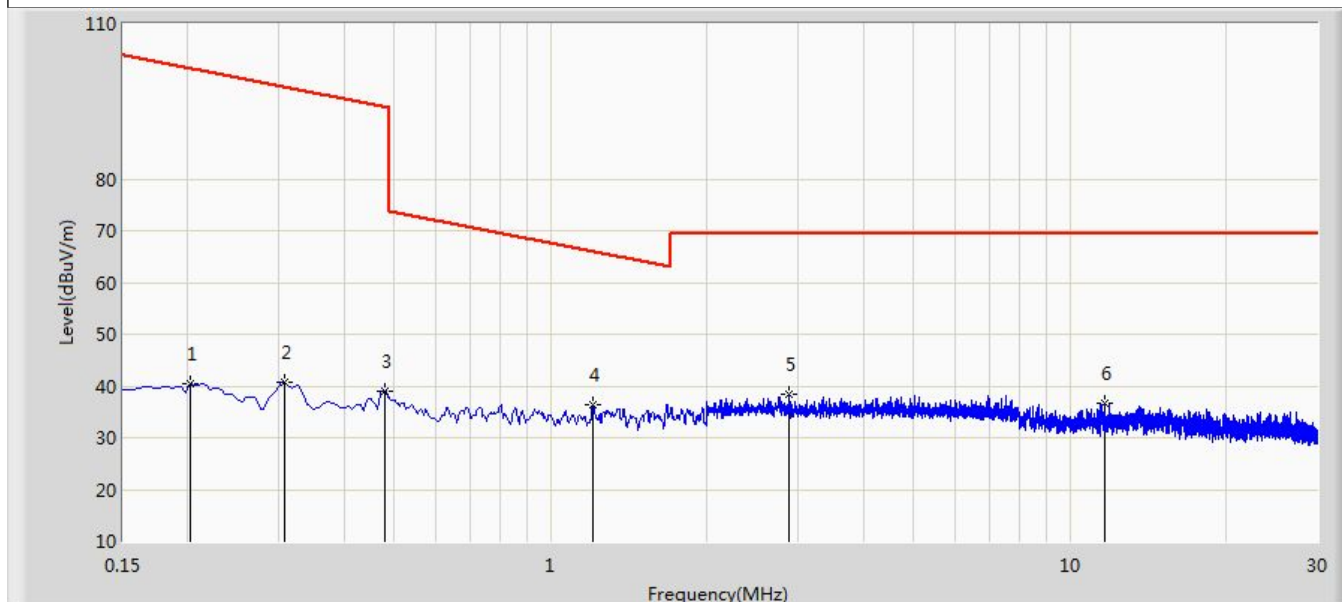
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.232	45.914	24.152	-54.277	100.191	21.762	PK
2		0.378	38.597	16.993	-57.356	95.953	21.604	PK
3		0.773	37.184	16.548	-32.568	69.752	20.636	PK
4	*	4.650	38.959	18.324	-30.441	69.400	20.635	PK
5		14.206	36.033	14.890	-33.367	69.400	21.143	PK
6		26.183	35.378	14.340	-34.022	69.400	21.038	PK

Profile: 2540161R	Page No.: 5
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 22:26
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Z-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-Z:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.010	87.491	66.429	-39.994	127.485	21.062	PK
2		0.011	86.179	65.086	-40.478	126.658	21.094	PK
3		0.027	76.151	54.561	-42.712	118.863	21.590	PK
4		0.063	55.420	33.484	-56.087	111.507	21.936	PK
5		0.089	50.863	28.957	-57.645	108.508	21.906	PK
6		0.128	47.574	25.712	-57.780	105.353	21.862	PK

Profile: 2540161R	Page No.: 6
Engineer: Yuliu	
Site: AC2	Time: 2025/04/14 - 22:29
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Z-Axis
EUT: LoRa Module	Power: 3.3Vdc
Note: mode 1-Z:Transmit at 914.2MHz by LoRa 500KHz bandwidth	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.202	40.508	18.721	-60.885	101.393	21.787	PK
2		0.307	40.724	19.041	-57.035	97.759	21.683	PK
3		0.478	39.077	17.569	-54.839	93.915	21.507	PK
4	*	1.210	36.233	16.082	-29.637	65.870	20.151	PK
5		2.874	38.303	17.458	-31.097	69.400	20.845	PK
6		11.691	36.595	15.792	-32.805	69.400	20.803	PK

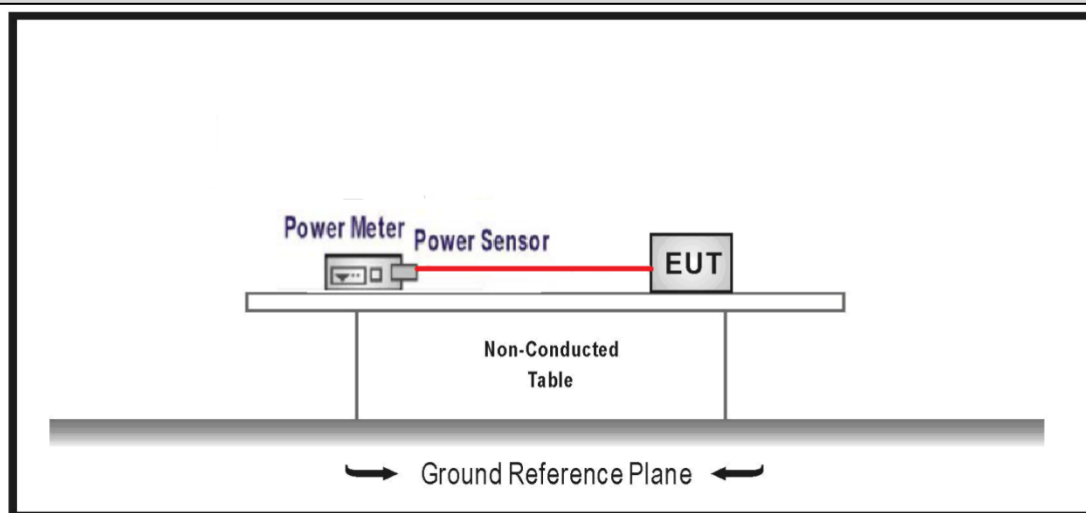
Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. We tested all the modes and showed the worst mode in the report.
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4.2 Fundamental emission output power**VERDICT: PASS****4.2.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
☒	GTX <6dBi	$P_{out} \leq 30\text{dBm}$
☐	GTX >6dBi	
☐	Non-Fix point-point	$P_{out} \leq 30 - (GTX - 6)$
☐	Fix point-point	$P_{out} \leq 30 - [(GTX - 6)]/3$
☐	Point-to-multipoint	$P_{out} \leq 30 - (GTX - 6)$
☐	Overlap Beams	$P_{out} \leq 30 - [(GTX - 6)]/3$
☐	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(GTX - 6)]/3$
☐	single directional beam	$P_{out} \leq 30 - [(GTX - 6)]/3 + 8\text{dB}$
☒	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels	

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum peak conducted output power .

4.2.2 Test Setup

4.2.3 Test Procedure

	References Rule			Chapter	Description		
☒	ANSI C63.10			11.9	Fundamental emission output power		
	☐	ANSI C63.10			11.9.1	Maximum peak conducted output power	
		☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth		
		☐	ANSI C63.10	11.9.1.2	Integrated band power method		
		☐	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method		
	☒	ANSI C63.10			11.9.2	Maximum conducted (average) output power	
		☒	ANSI C63.10			11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)	
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)	
			☒	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)	
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)	
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
		☒	ANSI C63.10			11.9.2.3	Measurement using a power meter (PM)
			☒	ANSI C63.10	11.9.2.3.1	Method AVGPM	
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	
☒	ANSI C63.10			7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices		

4.2.4 Test Data

Mode	Channel	Test Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Conducted Limit (dBm)	E.I.R.P Limit (dBm)	Result
1	00	902.3	21.35	23.45	30.00	36.00	Pass
	31	908.5	21.37	23.47	30.00	36.00	Pass
	63	914.9	21.39	23.49	30.00	36.00	Pass
2	64	903.0	21.32	23.42	30.00	36.00	Pass
	67	907.8	21.39	23.49	30.00	36.00	Pass
	71	914.2	21.40	23.50	30.00	36.00	Pass
3	64	903.0	21.38	23.48	30.00	36.00	Pass
	67	907.8	21.36	23.46	30.00	36.00	Pass
	71	914.2	21.37	23.47	30.00	36.00	Pass
4	01	902.5	21.39	23.49	30.00	36.00	Pass
	16	914.5	21.41	23.51	30.00	36.00	Pass
	31	926.5	21.32	23.42	30.00	36.00	Pass
5	01	902.2	21.35	23.45	30.00	36.00	Pass
	65	915	21.38	23.48	30.00	36.00	Pass
	129	927.8	21.33	23.43	30.00	36.00	Pass

Note:

1. E.I.R.P.= Output Power + Antenna Gain
2. Please refer to clause 1.2 for antenna gain.

4.3 Antenna Requirement**VERDICT: PASS****4.3.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203
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An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.3.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☐ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☒ | The use of a nonstandard antenna jack of u.FL |
| ☐ | The antenna use standard connector with non-standard thread dimensions |

Please refer to the attached document “External Photograph” to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO	VERDICT: PASS
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Remark: The test setup photo and EUT Photo please see appendix.

_____ The End _____