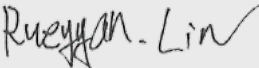


Test Report No:
2550538R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	ZENNER IoT gateway, model 915id
Brand Name	ZENNER
Model No.	180094
FCC ID	2ACOA-ID21
Applicant's Name / Address	Zenner USA, Inc. 15280 Addison Rd, Suite 240, Addison, TX 75001 ,United States
Manufacturer's Name / Address	ZENNER Meters (Shanghai) Ltd. (ZSH) No.15 Dongxing Rd. Songjiang Industrial Zone, Shanghai, China 201613
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2020, ANSI C63.10-2020+Cor.1-2023, ANSI C63.10a-2024
Verdict Summary	IN COMPLIANCE
Documented By	 Hailey Peng
Approved By	 Rueyyan Lin
Date of Receipt	May 20, 2025
Date of Issue	May 22, 2026
Report Version	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

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	May 22, 2026

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & DTS Bandwidth	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Maximum Power Spectral Density	PASS	-
7	Antenna Port Conducted Emission	PASS	-
8	Transmitter Radiated Spurious Emission	PASS	-
Note: The EUT contains a certified WWAN module (brand name: PCTEST, model: RI7LE910CXWWX, FCC ID: RI7LE910CXWWX).			

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	902 ~ 928 MHz
Operating Frequency	923.3 ~ 927.5 MHz
Channel Number	8 Channels
Bandwidth	500 kHz
Type of Modulation	LoRa

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	SWITCHING POWER ADAPTOR	UE	UESWU-12020 0SPA	INPUT: 100-240V~50/60Hz, 0.8A OUTPUT: 12.0VDC, 2.0A	With power cable: Non-Shielded, 1.5m
No.	Equipment Name				
2	Screw*4				
3	Mounting hardware (screws*2 & dowels*2)				
4	wall mounting bracket				

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
1	Ethertronic	Lora2ISM68/915	FPC	1.5

Working Frequency of Each Channel	
Channel	Frequency
01	923.3 MHz
02	923.9 MHz
03	924.5 MHz
04	925.1 MHz
05	925.7 MHz
06	926.3 MHz
07	926.9 MHz
08	927.5 MHz

1.2. EUT Information

EUT Power Type	From Adapter		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020, ANSI C63.10-2020+Cor.1-2023, ANSI C63.10a-2024

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISCED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISCED.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Cyril Chen	25 / 65	2025/10/21
RF Conducted Emission	HC-SR12	Clemens Fang	23.1~25.4 / 52.5~56.4	2025/10/13~2025/10/23
Radiated Emission	HC-CB04	Ling Chen Cyril Chen	23.2 / 63	2025/10/02~2025/10/03

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Occupied Bandwidth & DTS Bandwidth	± 105.93 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2024/12/02	2025/12/01
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2025/06/30	2026/06/29
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2025/06/26	2026/06/25
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz-2500 MHz	2025/08/15	2026/08/15
EMI Testing System	Audix	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2025/06/17	2026/06/16
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2024/10/29	2025/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2024/10/29	2025/10/28

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2025/05/20	2026/05/19
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2024/11/26	2025/11/25
Wideband Radio Communication Tester	R&S	CMW500	106071	LTE 4G	2025/01/16	2026/01/15
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2025/08/07	2026/08/06
Coaxial Cable	Huber+Suhner ,Rosnol	SF102_UP0264	HC-CB04-1	18-40 GHz, 3m	2025/08/13	2026/08/12
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2025/07/09	2026/07/08

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

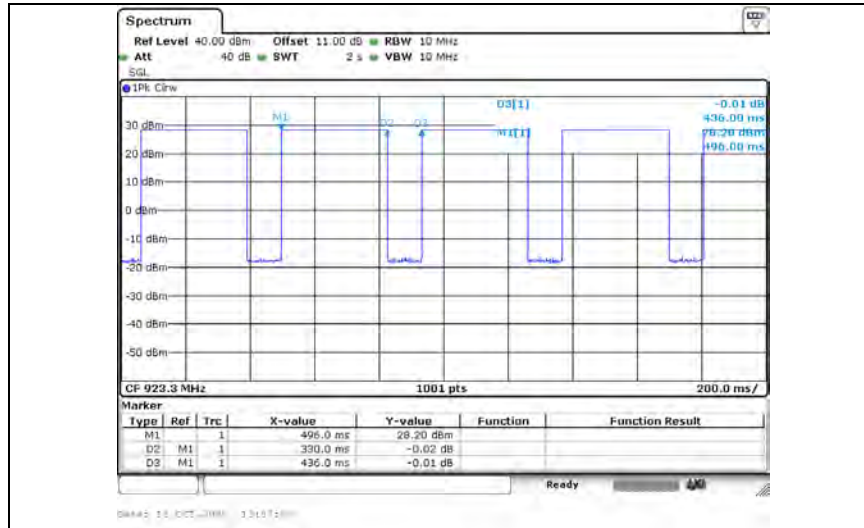
2.2. Test Frequency Mode

Test Software Version	Tera Term Version 5.4.0
-----------------------	-------------------------

Modulation	Frequency (MHz)	Power Setting
LoRa	923.3	10
	927.5	13

2.3. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
LoRa	0.330	0.436	75.69	1.210	3.030



2.4. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode	Transmit
The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test. The worst case was found at Y axis, so the measurement will follow this same test configuration.	

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	LoRa + WWAN
Refer to Appendix G for Radiated Emission Co-location.	

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Transmit
1	LoRa + WWAN
Refer to DEKRA Test Report No.: 2550538R-RFUSV17S-A for Co-location RF Exposure Evaluation.	

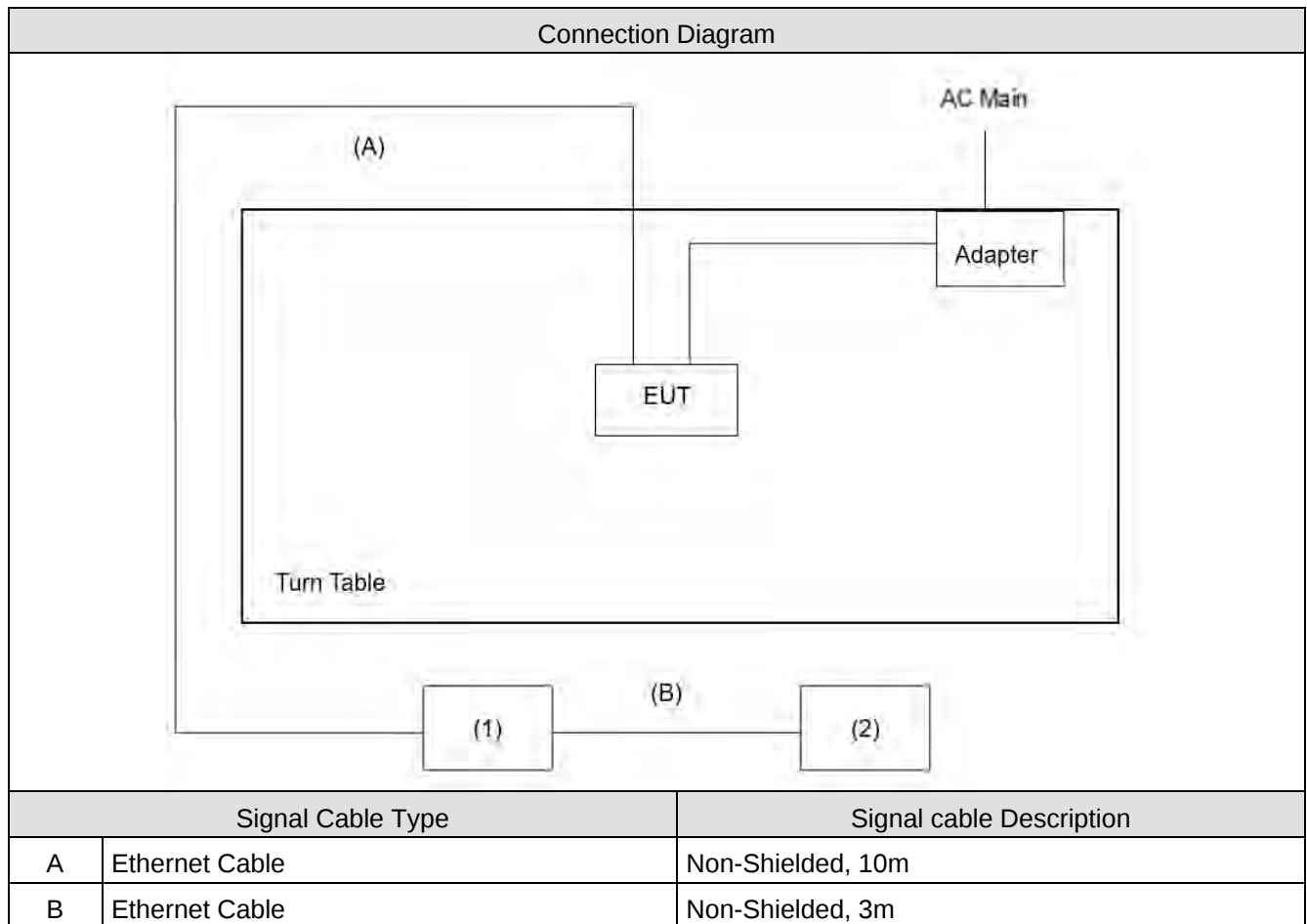
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For radiated spurious emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

2.5. Tested System Details

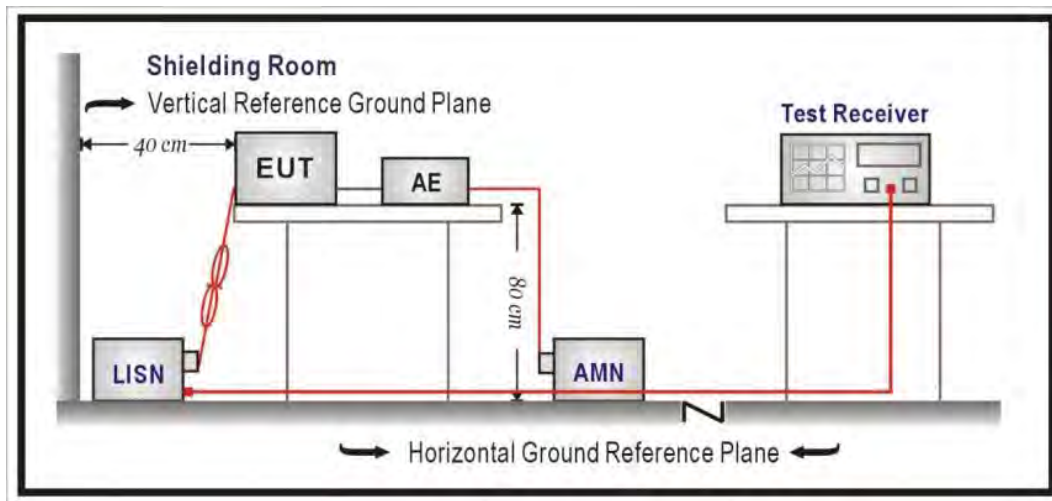
No.	Equipment	Brand Name	Model No.	Serial No.
1	Router	ASUS	GT-AC2900	K3IA2G000006
2	Notebook	Lenovo	Lenovo Ideapad 110 15IBR	PF01EUZD

2.6. Configuration of Tested System



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

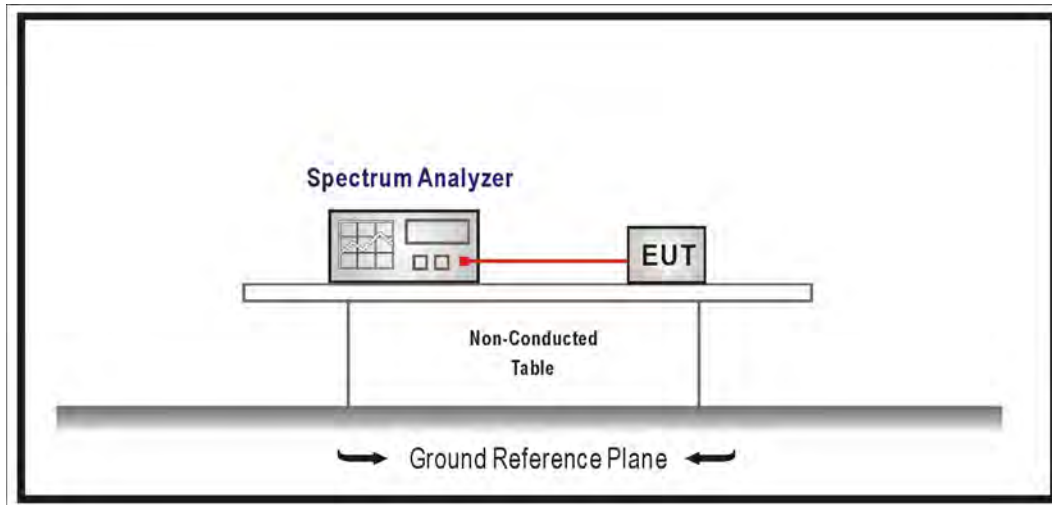
The EUT was setup according to ANSI C63.10 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & DTS Bandwidth

4.1. Test Setup



4.2. Test Limit

The 6 dB bandwidth: ≥ 500 kHz.

Occupied Bandwidth: N/A

4.3. Test Procedures

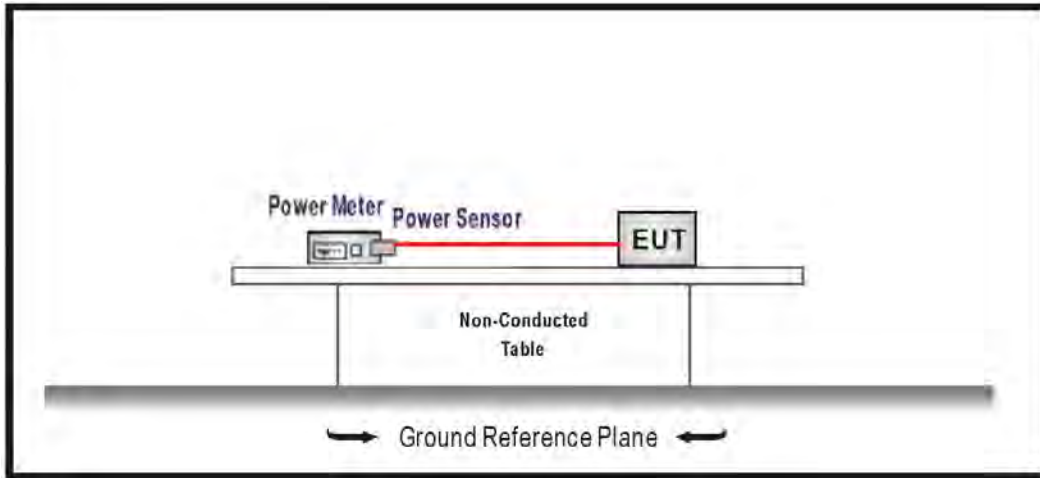
The EUT was setup according to ANSI C63.10; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

The Maximum Conducted Output Power shall be less 1 Watt.

5.3. Test Procedures

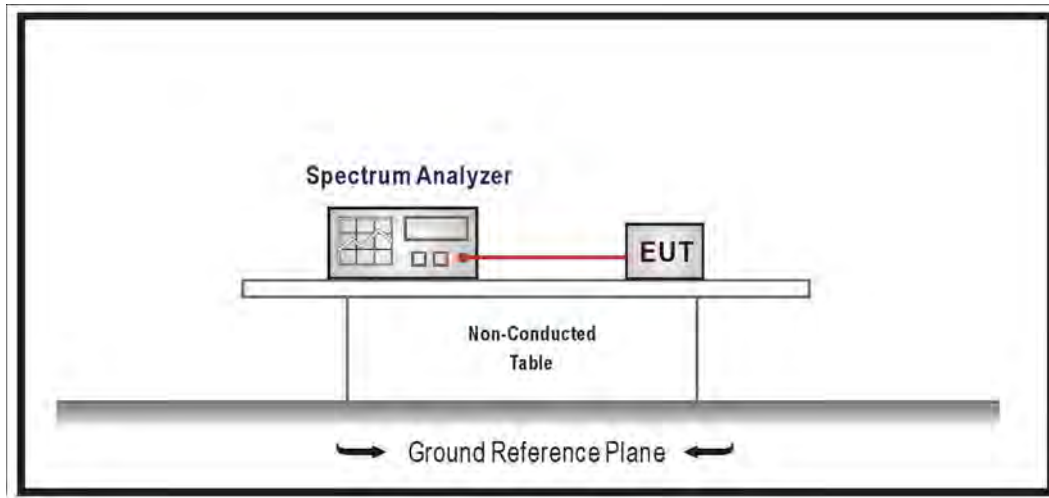
The EUT was setup according to ANSI C63.10; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3. Test Procedures

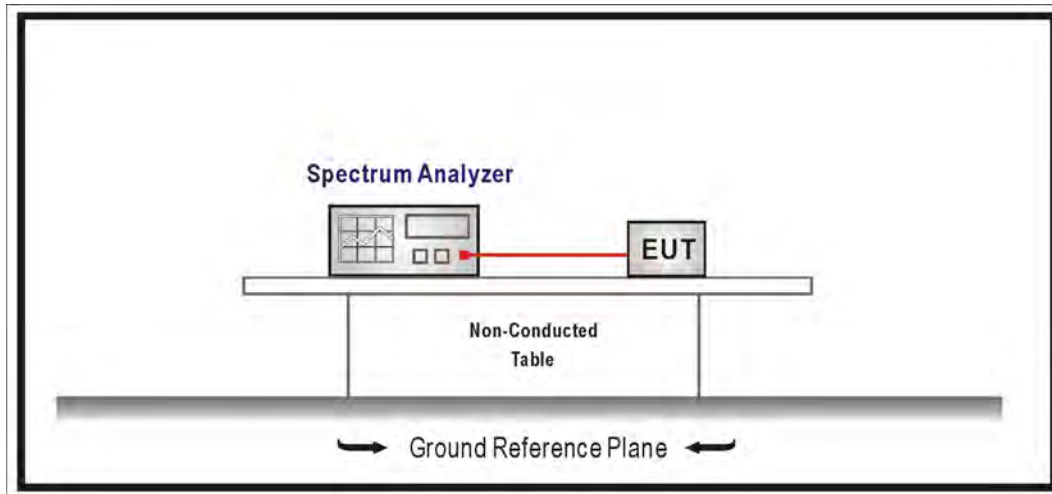
The EUT was setup according to ANSI C63.10; tested according to DTS test procedure of KDB 558074.

6.4. Test Result of Maximum Power Spectral Density

Refer as Appendix D

7. Antenna Port Conducted Emission

7.1. Test Setup



7.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
2. If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup according to ANSI C63.10 and tested according to DTS test procedure of KDB 558074.

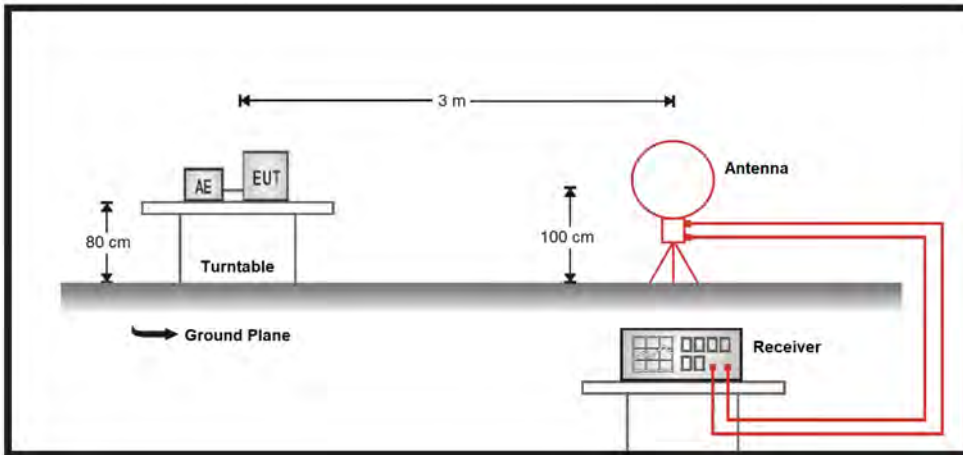
7.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix E

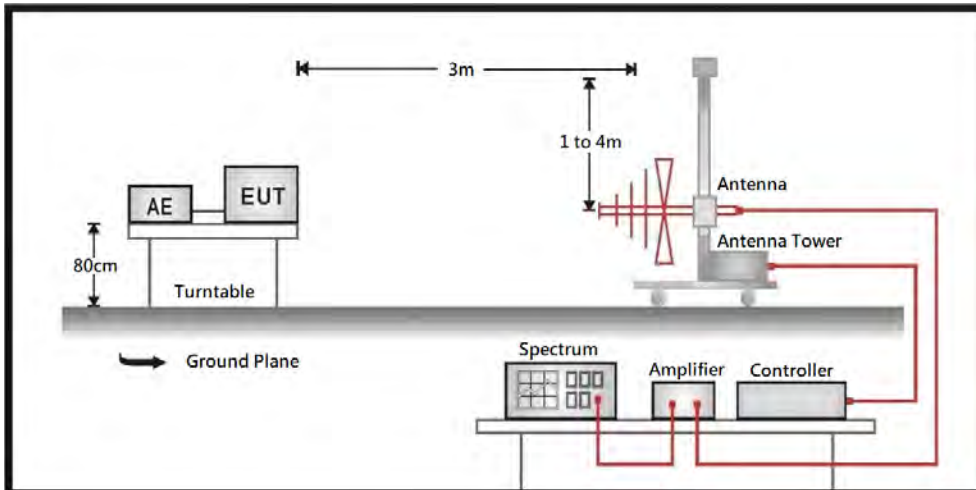
8. Transmitter Radiated Spurious Emission

8.1. Test Setup

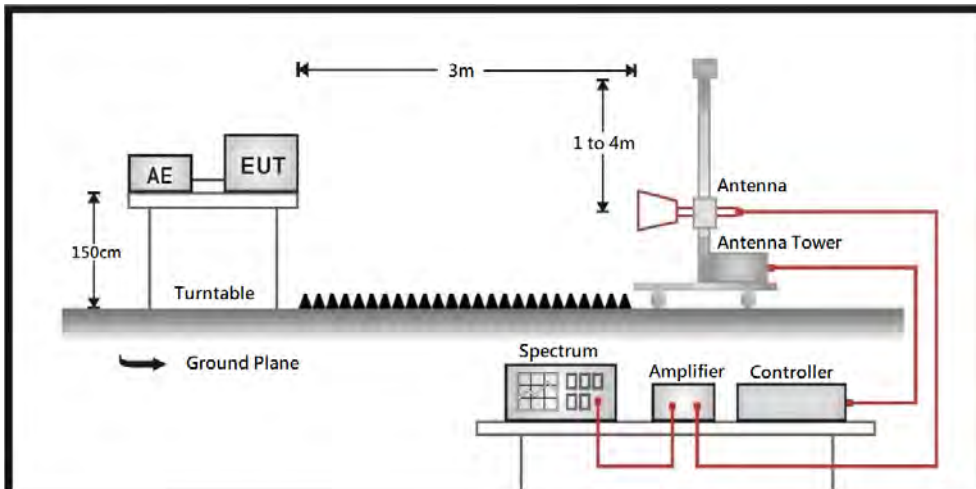
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



8.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

8.4. Test Result of Transmitter Radiated Spurious Emission (Below 30 MHz)

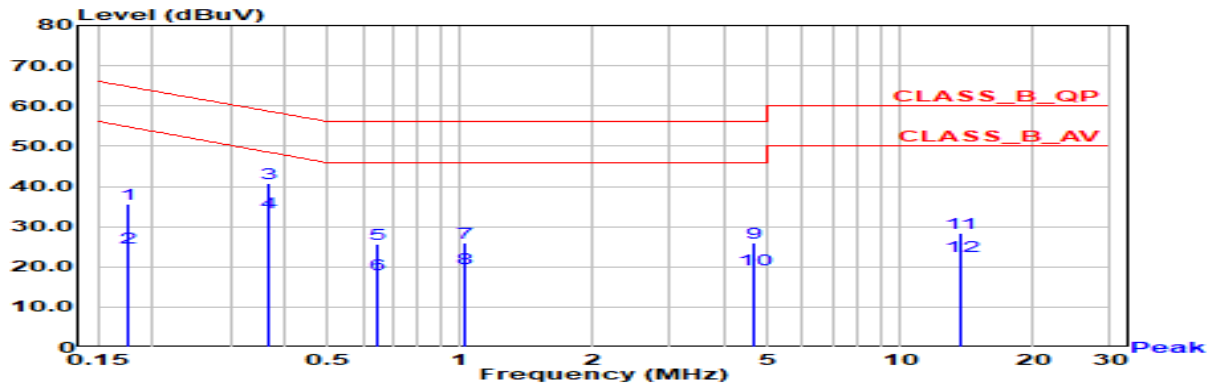
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8.5. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix F

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Transmit	Phase	Line
Test Condition	LoRa		

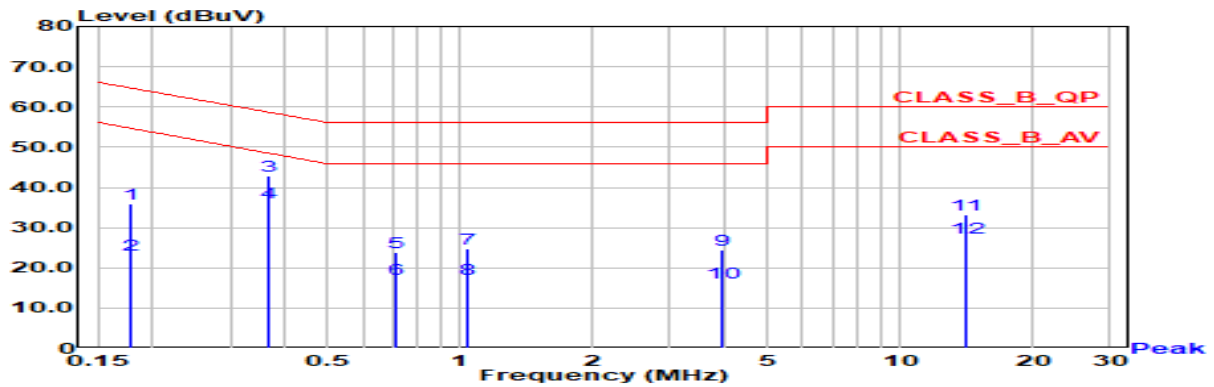


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.175	35.53	64.72	-29.20	25.91	9.62	QP
2	0.175	24.65	54.72	-30.07	15.03	9.62	AV
3	0.367	40.76	58.56	-17.80	31.12	9.64	QP
*4	0.367	33.41	48.56	-15.15	23.77	9.64	AV
5	0.646	25.68	56.00	-30.32	16.01	9.67	QP
6	0.646	18.21	46.00	-27.79	8.54	9.67	AV
7	1.029	26.11	56.00	-29.89	16.41	9.70	QP
8	1.029	19.76	46.00	-26.24	10.06	9.70	AV
9	4.672	25.95	56.00	-30.05	16.07	9.88	QP
10	4.672	19.35	46.00	-26.65	9.47	9.88	AV
11	13.749	28.46	60.00	-31.54	18.30	10.16	QP
12	13.749	22.78	50.00	-27.22	12.62	10.16	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Transmit	Phase	Neutral
Test Condition	LoRa		



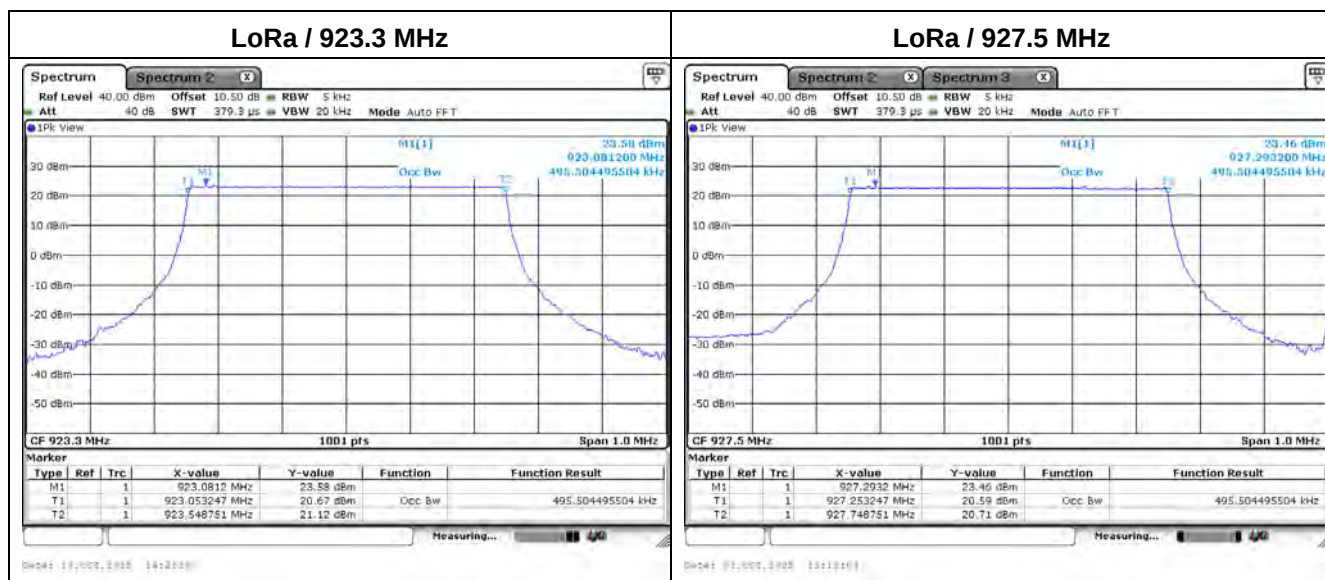
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.179	35.95	64.55	-28.60	26.33	9.62	QP
2	0.179	23.20	54.55	-31.35	13.58	9.62	AV
3	0.364	42.82	58.63	-15.81	33.18	9.64	QP
*4	0.364	36.38	48.63	-12.25	26.74	9.64	AV
5	0.717	23.91	56.00	-32.09	14.23	9.68	QP
6	0.717	17.32	46.00	-28.68	7.64	9.68	AV
7	1.034	24.69	56.00	-31.31	14.98	9.71	QP
8	1.034	17.14	46.00	-28.86	7.43	9.71	AV
9	3.956	24.38	56.00	-31.62	14.51	9.86	QP
10	3.956	16.24	46.00	-29.76	6.38	9.86	AV
11	14.119	33.30	60.00	-26.70	23.03	10.26	QP
12	14.119	27.33	50.00	-22.67	17.06	10.26	AV

Note:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

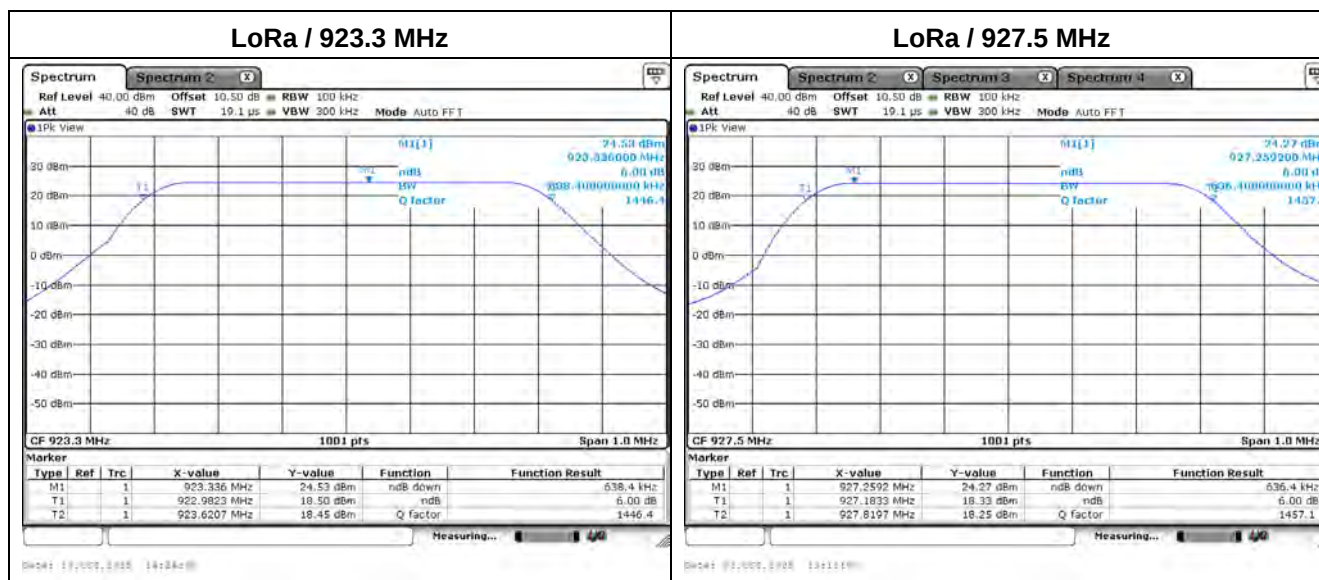
Appendix B.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
LoRa	923.3	0.495	-
	927.5	0.495	-



Appendix B.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
LoRa	923.3	0.638	0.50	Pass
	927.5	0.636	0.50	Pass

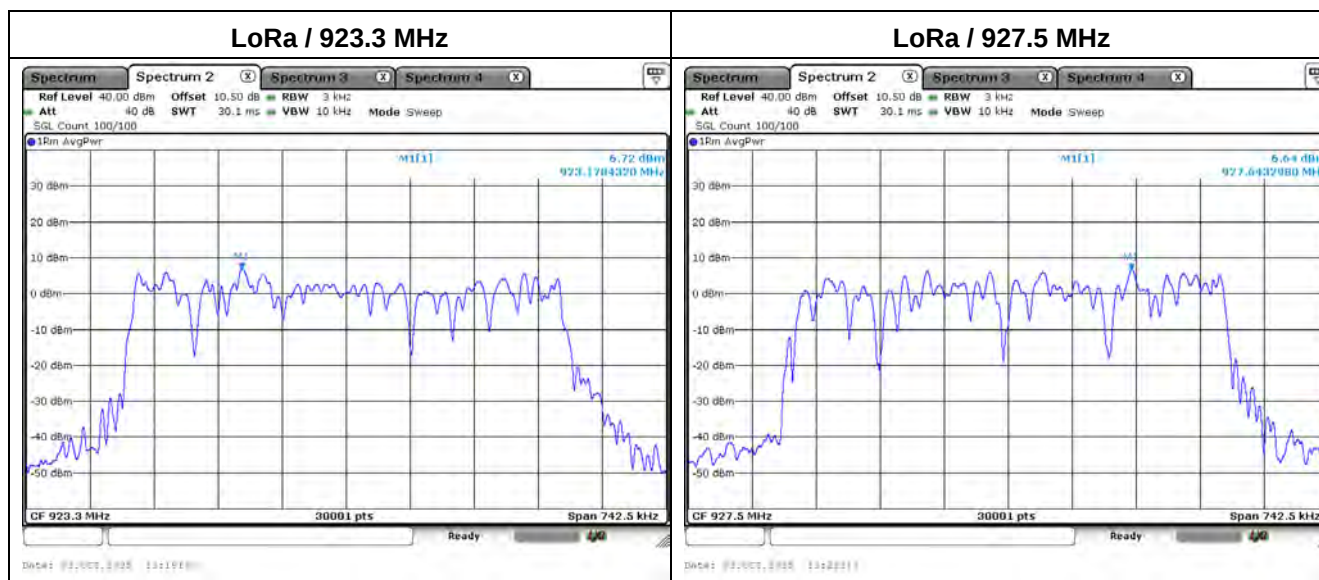


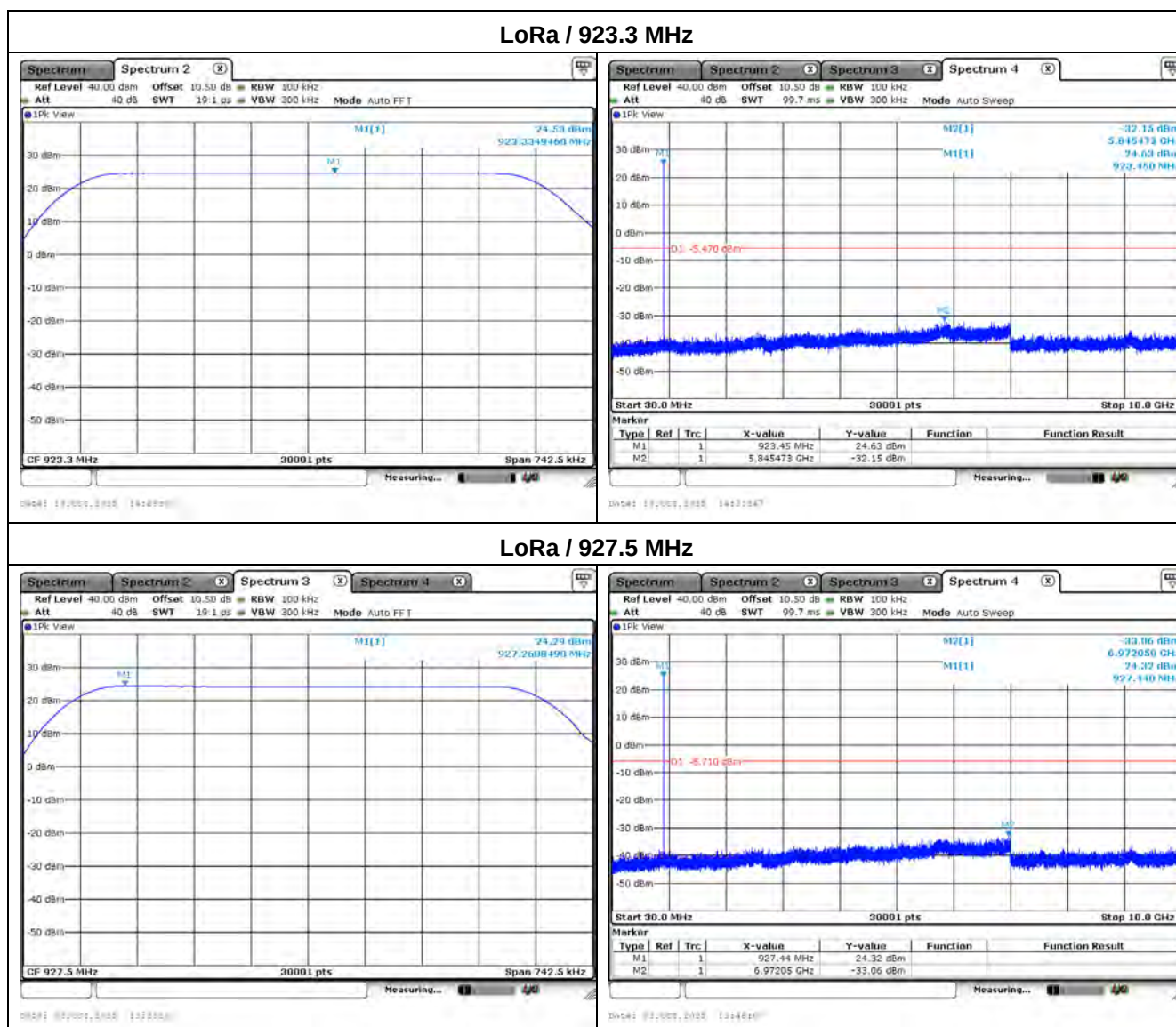
Appendix C. Test Result of Maximum Conducted Output Power

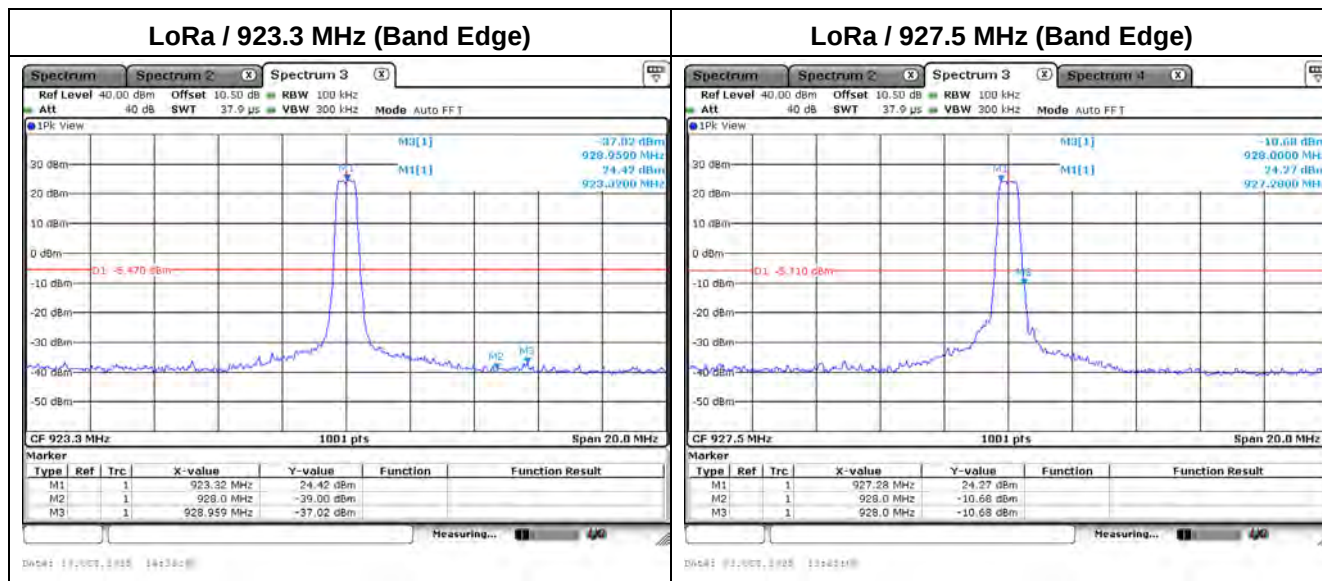
Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
LoRa	923.3	24.550	30.00	Pass
	927.5	24.730	30.00	Pass

Appendix D. Test Result of Maximum Power Spectral Density

Modulation	Frequency (MHz)	Measure Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
LoRa	923.3	6.720	8.00	Pass
	927.5	6.640	8.00	Pass



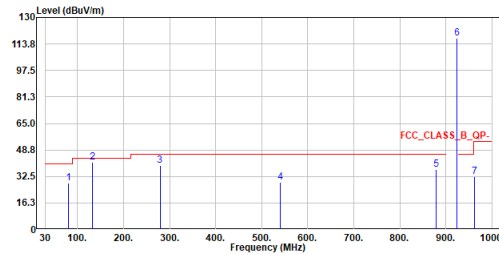
Appendix E. Test Result of Antenna Port Conducted Emission



Appendix F. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz

Site :HC-CB04
Condition :3m Horizontal
Mode :SRD_TX_923.3MHz
Test By :Ling Chen

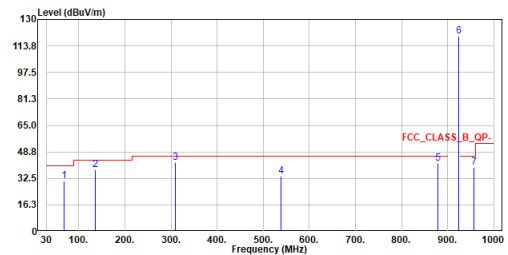


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	79.955	28.41	40.00	-11.59	35.82	-7.41	QP
2	132.820	41.44	43.50	-2.06	45.68	-4.24	QP
3	278.902	39.10	46.00	-6.90	42.15	-3.05	QP
4	540.608	28.91	46.00	-17.09	25.74	-3.17	QP
5	878.459	36.99	46.00	-9.01	28.32	8.67	QP
6	923.273	117.15	-----	-----	107.61	9.54	QP
7	961.879	32.31	54.00	-21.69	22.21	10.10	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :SRD_TX_923.3MHz
Test By :Ling Chen

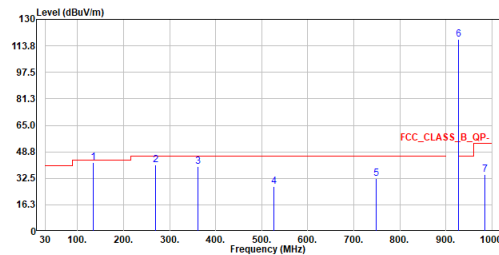


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	68.315	30.86	40.00	-9.14	35.07	-4.21	QP
2	135.536	37.55	43.50	-5.95	41.51	-3.96	QP
3	309.360	42.39	46.00	-3.61	44.62	-2.23	QP
4	538.183	33.63	46.00	-12.37	30.51	3.12	QP
5	878.459	41.61	46.00	-4.39	32.94	8.67	QP
6	923.273	117.77	-----	-----	110.23	9.54	QP
7	957.611	39.32	46.00	-6.68	29.29	10.03	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Horizontal
Mode :SRD_TX_927.5MHz
Test By :Ling Chen

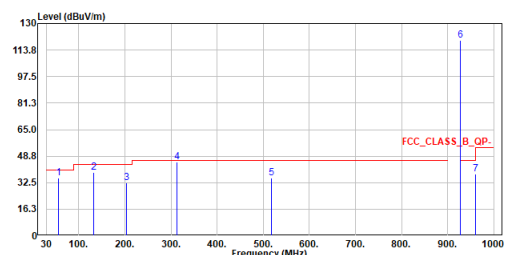


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	133.887	42.30	43.50	-1.20	46.33	-4.03	QP
2	269.105	40.69	46.00	-5.31	44.18	-3.49	QP
3	361.546	39.52	46.00	-6.48	40.71	-1.19	QP
4	526.543	27.57	46.00	-18.43	24.60	2.97	QP
5	747.994	32.21	46.00	-13.79	24.72	7.49	QP
6	927.500	117.60	-----	-----	108.01	9.59	QP
7	984.383	34.77	54.00	-19.23	24.60	10.17	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :SRD_TX_927.5MHz
Test By :Ling Chen



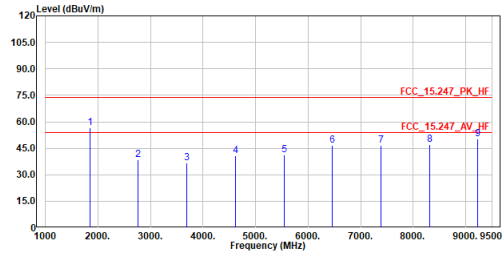
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
				dB	dBuV	dB	
1	55.899	35.25	40.00	-4.75	37.60	-2.35	QP
2	132.626	38.91	43.50	-4.59	43.17	-4.26	QP
3	202.563	32.27	43.50	-11.23	38.75	-6.48	QP
4	312.270	45.31	46.00	-0.69	47.43	-2.12	QP
5	517.231	35.51	46.00	-10.49	32.66	2.85	QP
6	927.500	119.61	-----	-----	110.02	9.59	QP
7	960.133	37.57	54.00	-16.43	27.48	10.09	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Above 1 GHz

Site :HC-CB04
Condition :3m ,Horizontal
Mode :SRD_TX_923.3MHz
Test By :Ling Chen

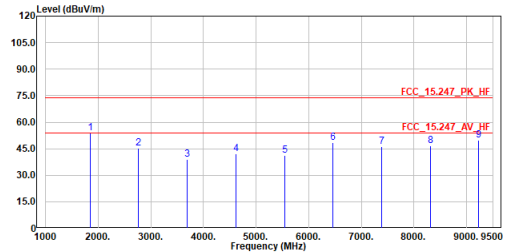


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1846.600	56.67	74.00	-17.33	81.19	-24.52	Peak
2	2769.900	38.57	74.00	-35.43	60.78	-22.21	Peak
3	3693.200	36.87	74.00	-37.13	57.05	-20.18	Peak
4	4616.500	40.72	74.00	-33.28	58.35	-17.63	Peak
5	5539.800	41.29	74.00	-32.71	57.56	-16.27	Peak
6	6463.100	46.42	74.00	-27.58	59.58	-13.16	Peak
7	7386.400	46.44	74.00	-27.56	58.09	-11.65	Peak
8	8309.700	46.97	74.00	-27.03	57.59	-10.62	Peak
9	9233.000	50.25	74.00	-23.75	59.54	-9.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :SRD_TX_923.3MHz
Test By :Ling Chen

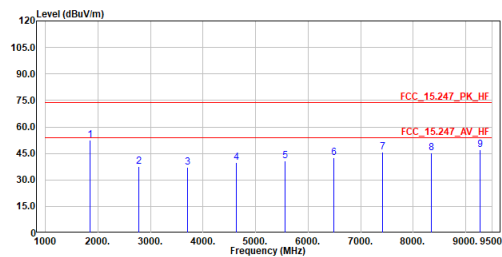


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1846.600	54.01	74.00	-19.99	78.53	-24.52	Peak
2	2769.900	45.47	74.00	-28.53	67.68	-22.21	Peak
3	3693.200	38.88	74.00	-35.12	59.06	-20.18	Peak
4	4616.500	42.15	74.00	-31.85	59.78	-17.63	Peak
5	5539.800	41.21	74.00	-32.79	57.48	-16.27	Peak
6	6463.100	48.38	74.00	-25.62	61.54	-13.16	Peak
7	7386.400	46.29	74.00	-27.71	57.94	-11.65	Peak
8	8309.700	46.64	74.00	-27.36	57.26	-10.62	Peak
9	9233.000	49.77	74.00	-24.23	59.06	-9.29	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Horizontal
Mode :SRD_TX_927.5MHz
Test By :Ling Chen

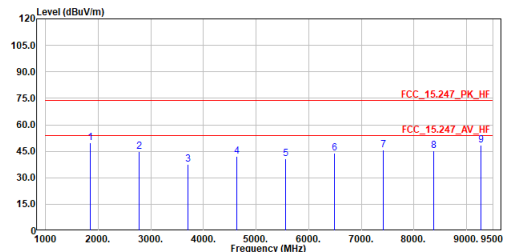


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1855.000	52.46	74.00	-21.54	76.96	-24.50	Peak
2	2782.500	37.73	74.00	-36.27	59.89	-22.16	Peak
3	3710.000	37.05	74.00	-36.95	57.15	-20.10	Peak
4	4637.500	39.96	74.00	-34.04	57.52	-17.56	Peak
5	5564.800	40.84	74.00	-33.16	57.03	-16.19	Peak
6	6492.700	42.67	74.00	-31.33	55.71	-13.04	Peak
7	7420.000	45.57	74.00	-28.43	57.15	-11.58	Peak
8	8347.500	45.37	74.00	-28.63	55.90	-10.53	Peak
9	9275.000	47.14	74.00	-26.86	56.33	-9.19	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :SRD_TX_927.5MHz
Test By :Ling Chen



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1855.000	49.93	74.00	-24.07	74.43	-24.50	Peak
2	2782.500	44.90	74.00	-29.10	67.06	-22.16	Peak
3	3710.000	37.50	74.00	-36.50	57.60	-20.10	Peak
4	4637.500	41.90	74.00	-32.10	59.46	-17.56	Peak
5	5564.800	40.90	74.00	-33.10	57.09	-16.19	Peak
6	6492.500	43.95	74.00	-30.05	56.99	-13.04	Peak
7	7420.000	45.76	74.00	-28.24	57.34	-11.58	Peak
8	8374.500	45.07	74.00	-28.93	55.56	-10.49	Peak
9	9275.000	48.59	74.00	-25.41	57.78	-9.19	Peak

Note:

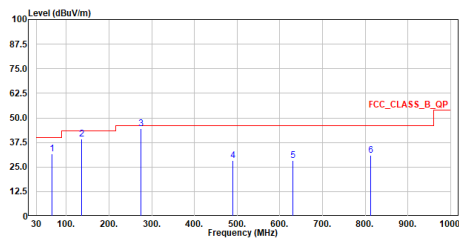
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Appendix G. Test Result of Radiated Emissions Co-location

LoRa + WWAN

30 MHz ~ 1 GHz

Site :HC-CB04
Condition :3m Horizontal
Mode :Colocation_Lora+LTE_LF
Test By :Ling Chen

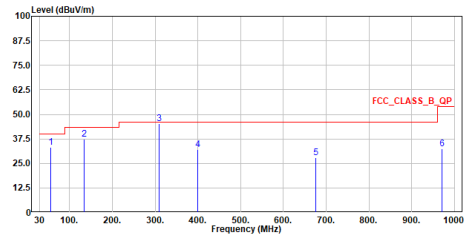


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	66.569	31.77	40.00	-8.23	35.92	-4.15	QP
2	136.215	39.32	43.50	-4.18	43.22	-3.90	QP
3	274.052	44.60	46.00	-1.40	47.86	-3.26	QP
4	490.362	28.17	46.00	-17.83	25.93	2.24	QP
5	630.721	28.26	46.00	-17.74	23.03	5.23	QP
6	812.790	30.78	46.00	-15.22	22.60	8.18	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :Colocation_Lora+LTE_LF
Test By :Ling Chen



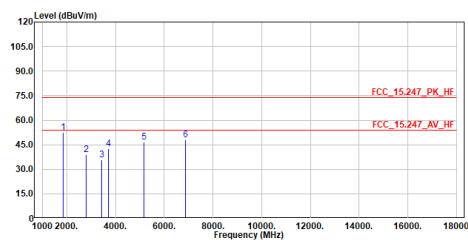
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	55.317	33.21	40.00	-6.79	35.60	-2.39	QP
2	134.178	37.30	43.50	-6.20	41.31	-4.01	QP
3	388.972	45.39	46.00	-0.61	47.63	-2.24	QP
4	399.473	31.94	46.00	-14.06	31.07	0.07	QP
5	675.535	27.84	46.00	-18.16	22.07	5.77	QP
6	970.803	32.50	54.00	-21.50	22.40	10.10	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Above 1 GHz

Site :HC-CB04
Condition :3m ,Horizontal
Mode :Colocation_Lora+LTE
Test By :Ling Chen

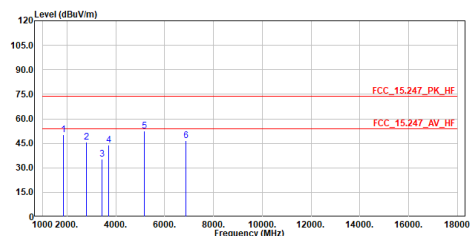


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	1855.000	52.74	74.00	-21.26	77.24	-24.50	Peak
2	2782.500	39.05	74.00	-34.95	61.21	-22.16	Peak
3	3440.000	35.62	74.00	-38.38	56.68	-21.06	Peak
4	3710.000	42.60	74.00	-31.40	62.70	-20.10	Peak
5	5160.000	46.50	74.00	-27.50	62.93	-16.43	Peak
6	6880.000	47.81	74.00	-26.19	60.35	-12.54	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :Colocation_Lora+LTE
Test By :Ling Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	1855.000	50.24	74.00	-23.76	74.74	-24.50	Peak
2	2782.500	45.64	74.00	-28.36	67.80	-22.16	Peak
3	3440.000	35.41	74.00	-38.59	56.47	-21.06	Peak
4	3710.000	43.97	74.00	-30.03	64.87	-20.10	Peak
5	5160.000	52.34	74.00	-21.66	68.77	-16.43	Peak
6	6880.000	46.65	74.00	-27.35	59.19	-12.54	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.