

FCC Test Report

Report No. : 1811C60409616201

Applicant : Shenzhen World New Power Co.,Ltd.

Address : 201, Building 1, Lingya Industrial Park, No.1 Tangtong Road, Tangtong Community, Shiyan Street, Bao'an District, Shenzhen, China

Product Name : LiFePO4 Battery

Report Date : 2026-09-01



Guangdong Anbotek Testing Co., Ltd.

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TEST REPORT

Applicant : Shenzhen World New Power Co.,Ltd.

Manufacturer : Shenzhen World New Power Co.,Ltd.

Product Name : LiFePO4 Battery

Model No. : WGF51150FFB, WGF51105FFF

Trade Mark : N/A

Rating(s) : Norminal Voltage: DC 51.2V
Nominal Capacity: 150Ah/7680Wh
Max Charge Current: 50A
Max Continues Discharge Current: 200A
47 CFR Part 15.247

Test Standard(s) : KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

The device described above is tested by Guangdong Anbotek Testing Co., Ltd to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Guangdong Anbotek Testing Co., Ltd is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Guangdong Anbotek Testing Co., Ltd.

Date of Receipt: 2026-07-28

Date of Test: 2026-07-28 to 2026-08-21

Prepared By:

Chengyu Chen

(Chengyu Chen)

Approved & Authorized Signer:

Steele Kam

(Steele Kam)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2026-09-01

1. General Information

1.1. Client Information

Applicant	:	Shenzhen World New Power Co.,Ltd.
Address	:	201, Building 1, Lingya Industrial Park, No.1 Tangtou Road, Tangtou Community, Shiyan Street, Bao'an District, Shenzhen,China
Manufacturer	:	Shenzhen World New Power Co.,Ltd.
Address	:	201, Building 1, Lingya Industrial Park, No.1 Tangtou Road, Tangtou Community, Shiyan Street, Bao'an District, Shenzhen,China
Factory	:	Shenzhen World New Power Co.,Ltd.
Address	:	201, Building 1, Lingya Industrial Park, No.1 Tangtou Road, Tangtou Community, Shiyan Street, Bao'an District, Shenzhen,China

1.2. Description of Device (EUT)

Product Name	:	LiFePO4 Battery
Model No.	:	WGF51150FFB, WGF51105FFF
Trade Mark	:	N/A
Test Power Supply	:	DC 51.2V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40
Modulation Type	:	GFSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.58 dBi
Remark: (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT in continuously transmitting mode with GFSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
HZ_Conducted emissions (AMN 150kHz~30MHz)	3.00dB
HZ_Occupied Bandwidth	370Hz
HZ_Conducted Output Power	1.00dB
HZ_Power Spectral Density	1.00dB
HZ_Conducted Spurious Emission	0.70dB
HZ_Radiated spurious emissions (above 1GHz)	1G-18GHz: 5.28dB;
HZ_Radiated emissions (Below 30MHz)	9KHz-150KHz:3.04dB; 150KHz-30MHz:3.02dB
HZ_Radiated spurious emissions (30MHz~1GHz)	Horizontal: 5.48dB; Vertical: 5.48dB
The measurement uncertainty and decision risk evaluated according to ABST/WI-EMC-F-001. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.7. Additional Instructions

Power level setup in software: FR8010h Config Tool V2020.4.7.20

Operation Band:

Mode	Channel(MHz)	Power level	Transmitting type
BLE_1Mbps	2402	default	data pack TX
BLE_1Mbps	2440	default	data pack TX
BLE_1Mbps	2480	default	data pack TX

1.8. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1	N
6dB Bandwidth	Mode1	P
Maximum Conducted Output Power	Mode1	P
Power Spectral Density	Mode1	P
Emissions in non-restricted frequency bands	Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in restricted frequency bands (below 1GHz)	Mode1	P
Emissions in restricted frequency bands (above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Test Location

Guangdong Anbotek Testing Co., Ltd.

Building C, No. 76, Huifeng 4th Road, Zhongkai High-tech Zone, Huizhou, Guangdong, China

1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
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7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.11. Test Equipment List

Conducted Emission at AC power line					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	NSLK 8127	2026-06-15	2027-06-14
2	Software Name EZ-EMC	Farad Technology	EMC-CON 3A1.1	/	/
3	EMI Test Receiver	Rohde & Schwarz	ESCI3	2026-06-15	2027-06-14
4	Three-phase AC/DC artificial power network	EMtrace	PWL-50-3400	2026-07-22	2027-07-21
5	Slicer	EMtrace	PL00903	2026-06-15	2027-06-14

6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2026-01-20	2027-01-19
2	MXA Spectrum Analysis	KEYSIGHT	N9020A	2026-04-13	2027-04-12
3	Oscilloscope	Tektronix	MDO3012	2026-06-16	2027-06-15
4	MXG RF Vector Signal Generator	Agilent	N5182A	2026-01-20	2027-01-19
5	RF Test software	Toscend	JS1120-3	/	/

Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESPI7	2026-06-15	2027-06-14
2	Pre-amplifier	SKET	LNPA_0118G - 45	2026-06-15	2027-06-14
3	Horn Antenna	Instruments corporation	GTH-0118	2025-07-31	2027-07-30
4	Software	Ferrari Technology	Anbo-3A1	/	/
5	High frequency horn antenna	A-Info	LB-180400-KF	2026-04-18	2028-04-17
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2026-01-20	2027-01-19
7	RF and microwave power amplifiers	SKET	TLLA18G40G-53-30	2026-06-15	2027-06-14

Emissions in frequency bands (below 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESPI7	2026-06-15	2027-06-14
2	Pre-amplifier	EMtrace	RP01A	2026-06-15	2027-06-14
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	2025-08-05	2027-08-04
4	Software	Ferrari Technology	Anbo-3A1	/	/
5	Low frequency radiation circular antenna	Schwarzbeck	FMZB1519B	2026-04-17	2028-04-16

2. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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.
Test Method:	---

2.1. Conclusion

The antenna is a **PCB Antenna**, and the best case gain of the antenna is **-0.58dBi**. It complies with the standard requirement.

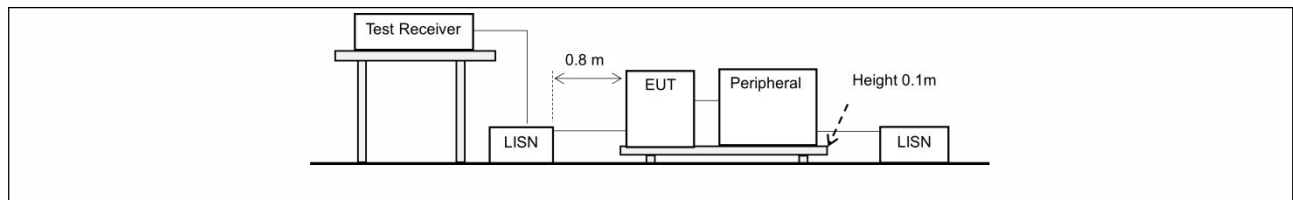
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

3.2. Test Setup



3.3. Test Data

Not applicable.

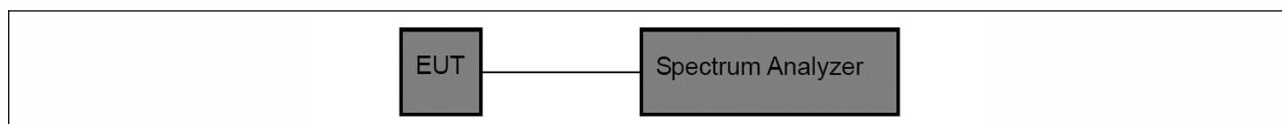
4. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature:	24 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

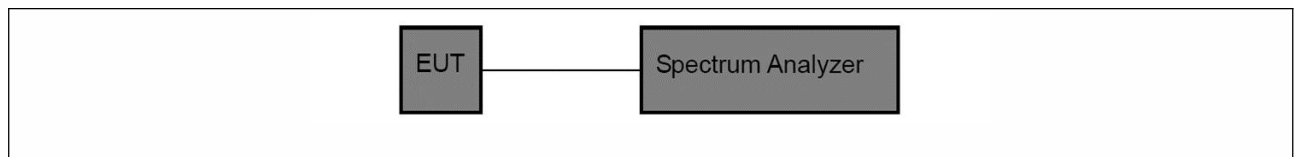
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

5.2. Test Setup



5.3. Test Data

Temperature:	24 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

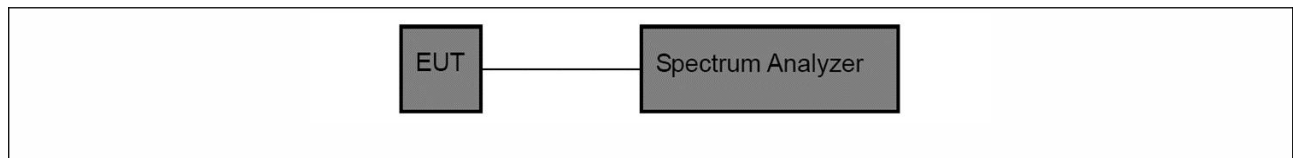
6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

6.2. Test Setup



6.3. Test Data

Temperature:	24 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

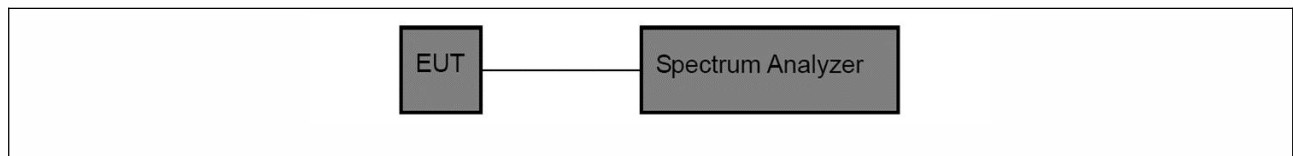
7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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 limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2. Test Setup



7.3. Test Data

Temperature:	24 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

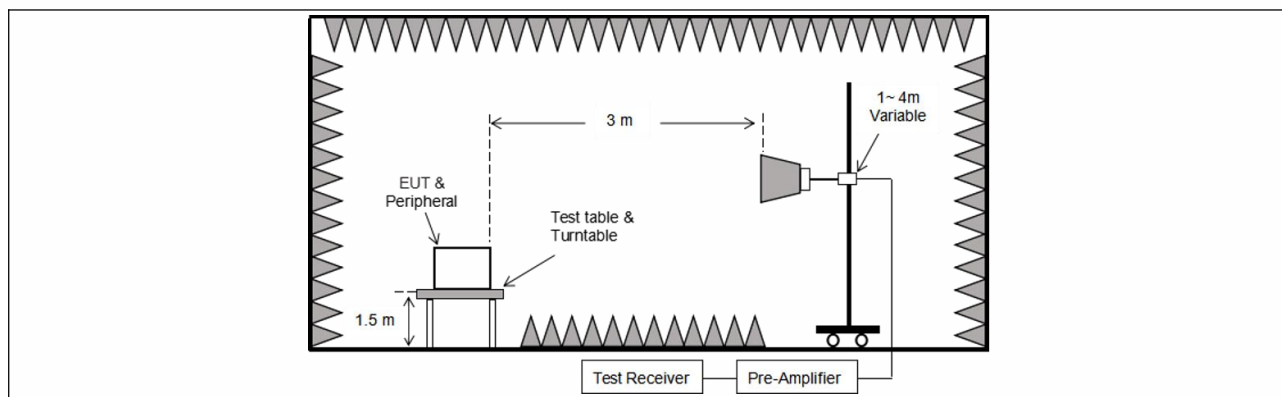
8. Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2		

8.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature:	24 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
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TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2390.000	38.47	9.73	48.20	74.00	-25.80	Vertical
2352.550	31.53	9.73	41.26	74.00	-32.74	Vertical
2390.000	28.13	9.73	37.86	74.00	-36.14	Horizontal
2326.778	32.43	9.73	42.16	74.00	-31.84	Horizontal
TM1 / CH: H						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
2483.500	37.73	9.91	47.64	74.00	-26.36	Vertical
2506.711	40.31	9.91	50.22	74.00	-23.78	Vertical
2483.500	36.79	9.91	46.70	74.00	-27.30	Horizontal
2514.802	34.07	9.91	43.98	74.00	-30.02	Horizontal
Note: Result=Reading+Factor, Over Limit=Result-Limit						

Remark:

1. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

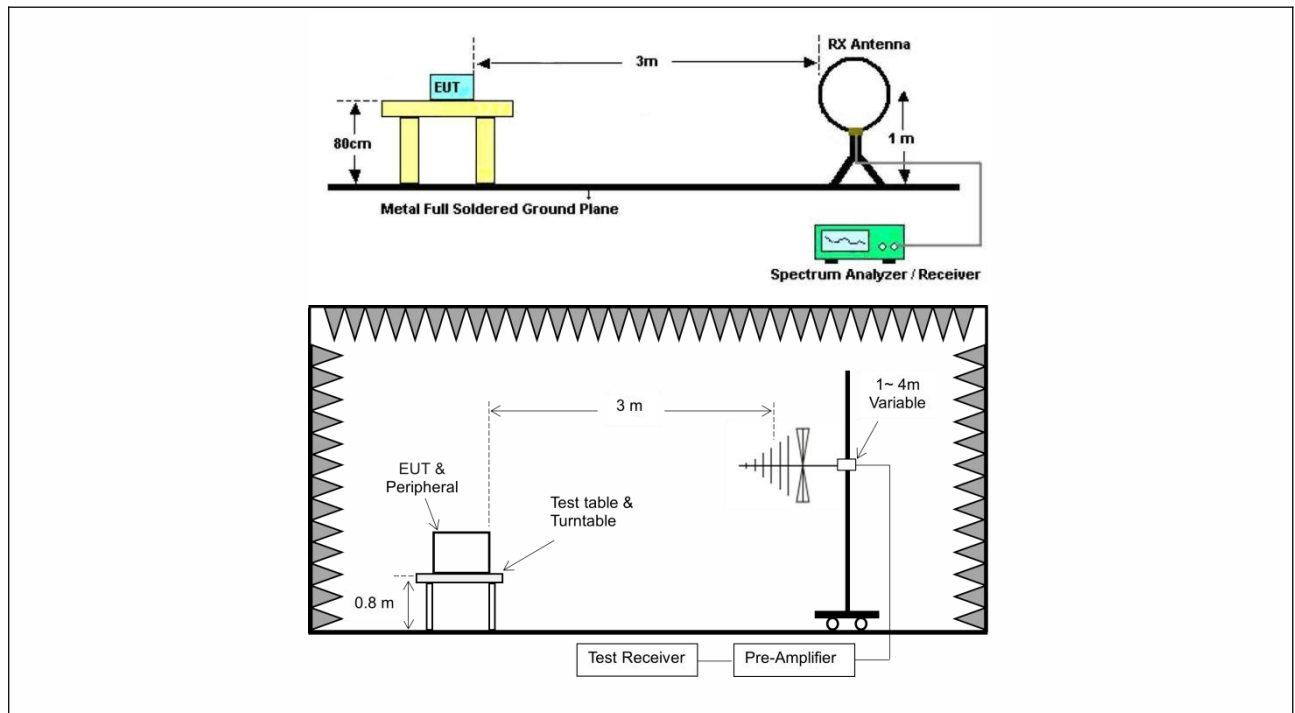
9. Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		

9.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

9.2. Test Setup



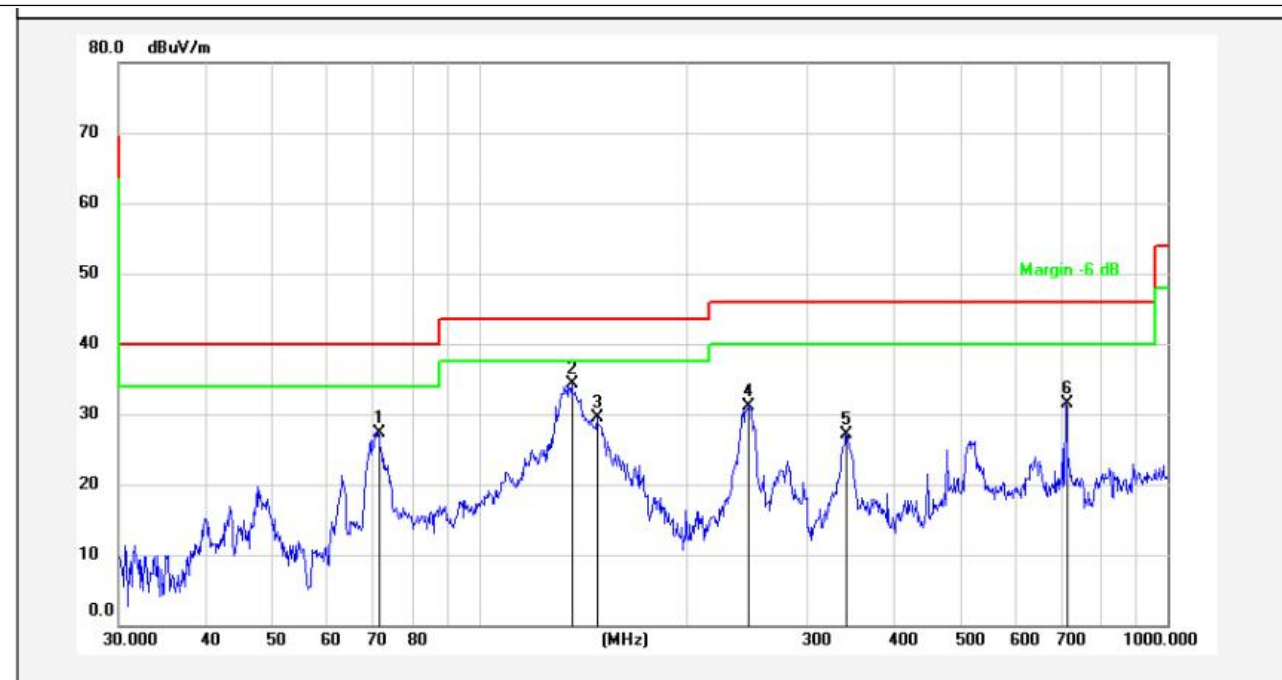
9.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	25 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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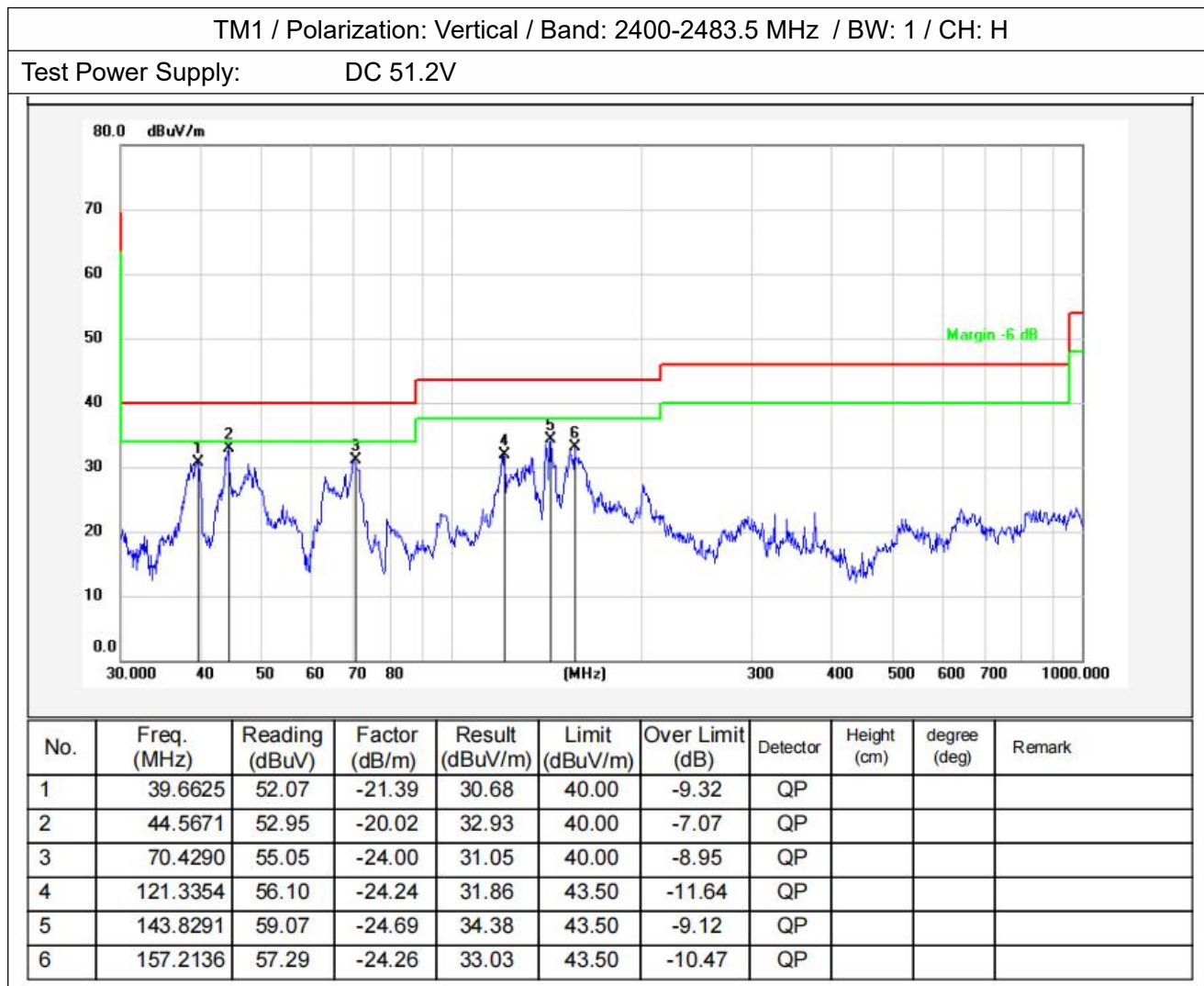
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

Test Power Supply: DC 51.2V



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	71.4235	52.03	-24.63	27.40	40.00	-12.60	QP			
2	136.4598	59.32	-25.03	34.29	43.50	-9.21	QP			
3	148.4410	54.38	-24.85	29.53	43.50	-13.97	QP			
4	246.4901	50.84	-19.80	31.04	46.00	-14.96	QP			
5	341.0803	44.52	-17.42	27.10	46.00	-18.90	QP			
6	712.9220	42.69	-11.20	31.49	46.00	-14.51	QP			

Temperature:	25 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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Note:

1. Only record the worst data in the report.
2. $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$;
 $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$

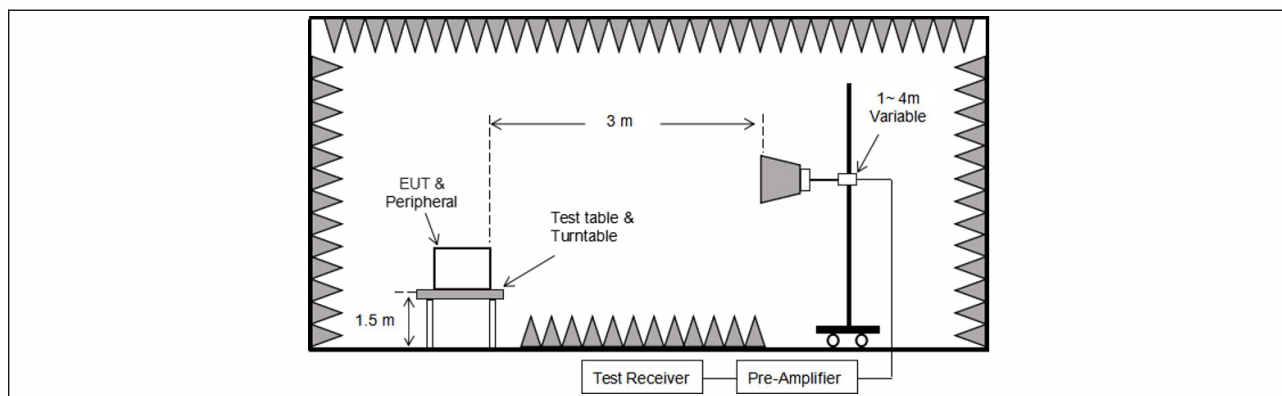
10. Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		

10.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

10.2. Test Setup

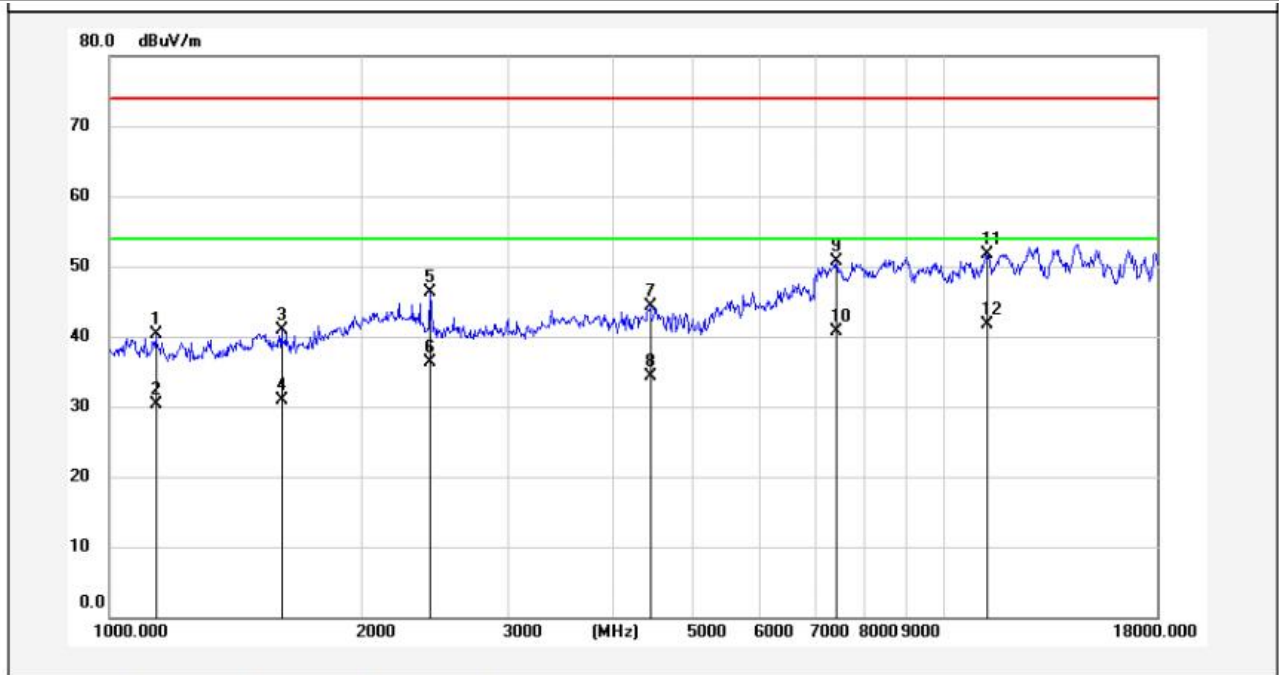


10.3. Test Data

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

Test Power Supply: DC 51.2V

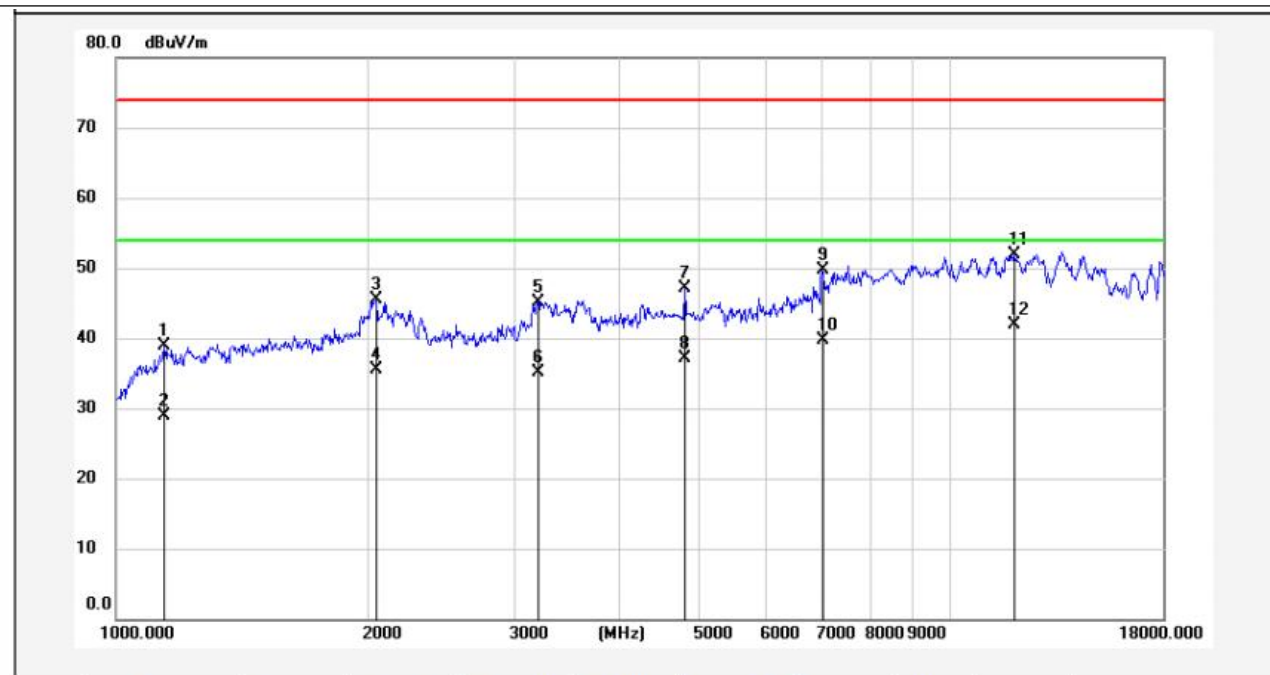


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1135.617	59.82	-19.51	40.31	74.00	-33.69	peak			
2	1135.617	49.82	-19.51	30.31	54.00	-23.69	AVG			
3	1606.441	59.85	-18.92	40.93	74.00	-33.07	peak			
4	1606.441	49.85	-18.92	30.93	54.00	-23.07	AVG			
5	2421.661	61.71	-15.48	46.23	74.00	-27.77	peak			
6	2421.661	51.71	-15.48	36.23	54.00	-17.77	AVG			
7	4443.453	55.37	-11.12	44.25	74.00	-29.75	peak			
8	4443.453	45.37	-11.12	34.25	54.00	-19.75	AVG			
9	7432.914	54.56	-3.81	50.75	74.00	-23.25	peak			
10	7432.914	44.56	-3.81	40.75	54.00	-13.25	AVG			
11	11237.329	49.64	2.16	51.80	74.00	-22.20	peak			
12	11237.329	39.64	2.16	41.80	54.00	-12.20	AVG			

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

Test Power Supply: DC 51.2V

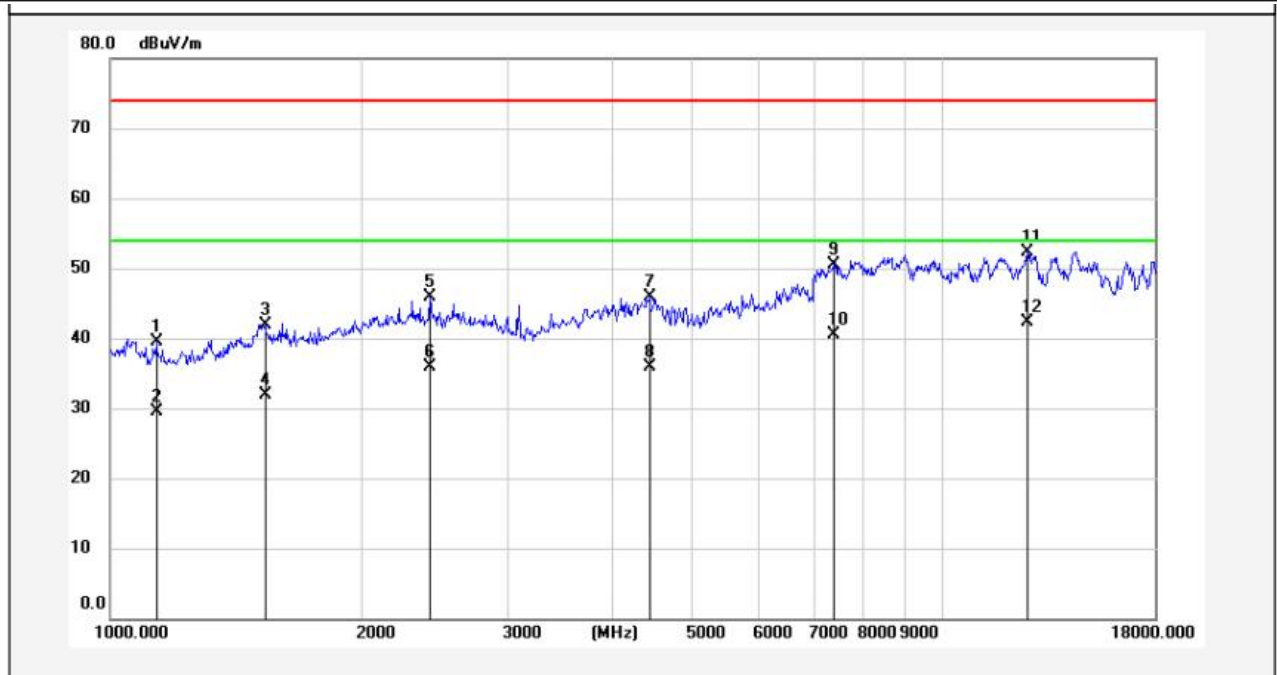


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1142.201	65.38	-26.53	38.85	74.00	-35.15	peak			
2	1142.201	55.38	-26.53	28.85	54.00	-25.15	AVG			
3	2053.822	66.14	-20.68	45.46	74.00	-28.54	peak			
4	2053.822	56.14	-20.68	35.46	54.00	-18.54	AVG			
5	3205.345	66.19	-21.11	45.08	74.00	-28.92	peak			
6	3205.345	56.19	-21.11	35.08	54.00	-18.92	AVG			
7	4804.110	64.08	-16.92	47.16	74.00	-26.84	peak			
8	4804.110	54.08	-16.92	37.16	54.00	-16.84	AVG			
9	7015.420	61.29	-11.59	49.70	74.00	-24.30	peak			
10	7015.420	51.29	-11.59	39.70	54.00	-14.30	AVG			
11	11940.535	55.80	-3.90	51.90	74.00	-22.10	peak			
12	11940.535	45.80	-3.90	41.90	54.00	-12.10	AVG			

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

Test Power Supply: DC 51.2V

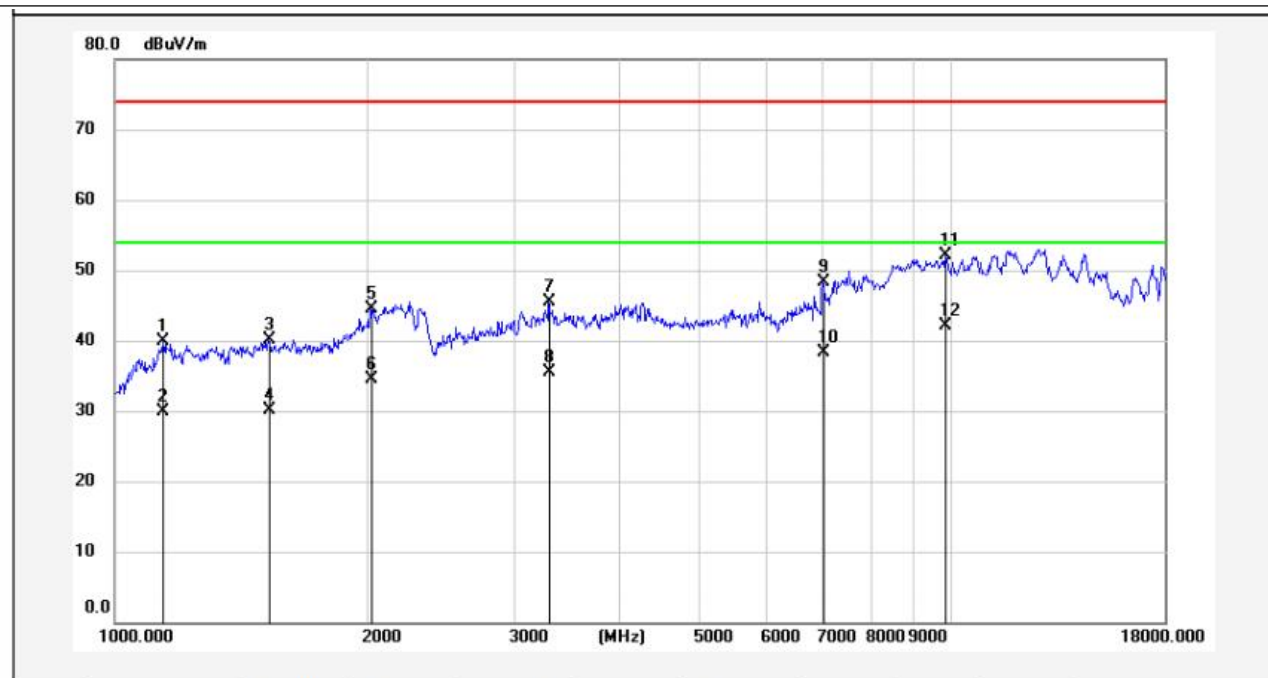


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1135.617	58.95	-19.51	39.44	74.00	-34.56	peak			
2	1135.617	48.95	-19.51	29.44	54.00	-24.56	AVG			
3	1533.841	61.08	-19.13	41.95	74.00	-32.05	peak			
4	1533.841	51.08	-19.13	31.95	54.00	-22.05	AVG			
5	2421.661	61.34	-15.48	45.86	74.00	-28.14	peak			
6	2421.661	51.34	-15.48	35.86	54.00	-18.14	AVG			
7	4443.453	57.00	-11.12	45.88	74.00	-28.12	peak			
8	4443.453	47.00	-11.12	35.88	54.00	-18.12	AVG			
9	7390.070	54.33	-3.87	50.46	74.00	-23.54	peak			
10	7390.070	44.33	-3.87	40.46	54.00	-13.54	AVG			
11	12651.128	49.27	2.96	52.23	74.00	-21.77	peak			
12	12651.128	39.27	2.96	42.23	54.00	-11.77	AVG			

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

Test Power Supply: DC 51.2V

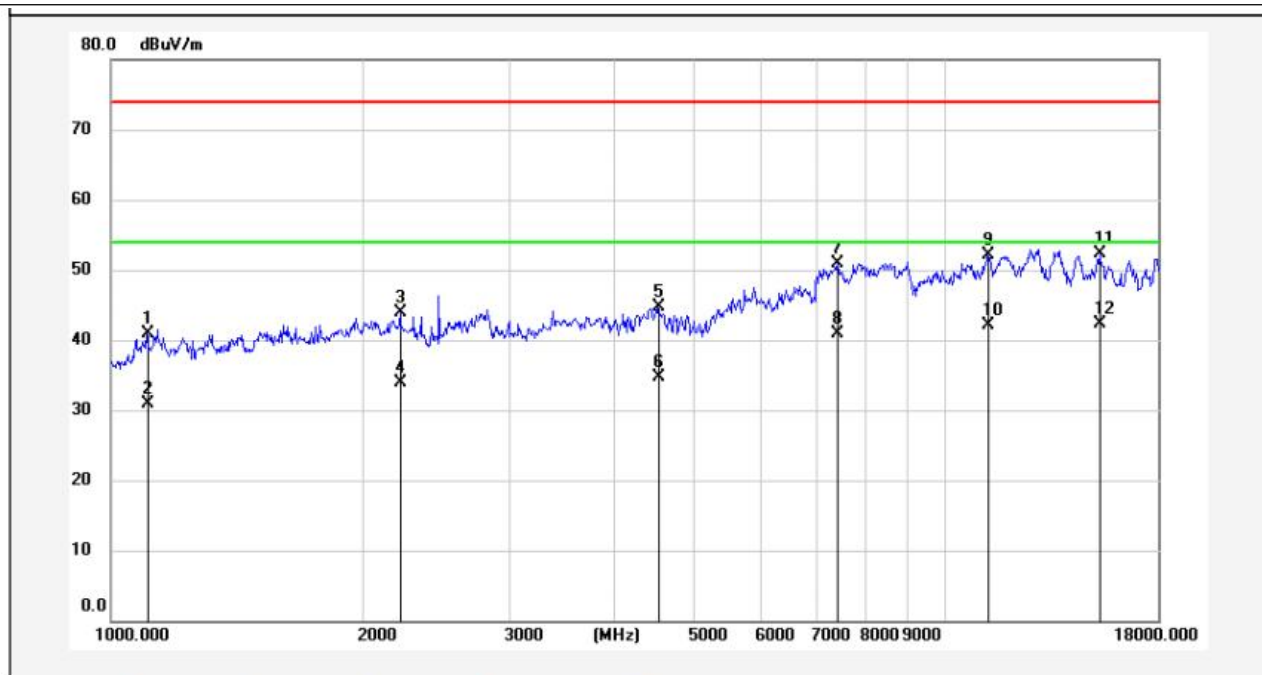


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1142.201	66.51	-26.53	39.98	74.00	-34.02	peak			
2	1142.201	56.51	-26.53	29.98	54.00	-24.02	AVG			
3	1525.000	66.22	-26.15	40.07	74.00	-33.93	peak			
4	1525.000	56.22	-26.15	30.07	54.00	-23.93	AVG			
5	2018.512	65.69	-21.20	44.49	74.00	-29.51	peak			
6	2018.512	55.69	-21.20	34.49	54.00	-19.51	AVG			
7	3299.344	66.26	-20.73	45.53	74.00	-28.47	peak			
8	3299.344	56.26	-20.73	35.53	54.00	-18.47	AVG			
9	7015.420	59.92	-11.59	48.33	74.00	-25.67	peak			
10	7015.420	49.92	-11.59	38.33	54.00	-15.67	AVG			
11	9838.311	55.93	-3.84	52.09	74.00	-21.91	peak			
12	9838.311	45.93	-3.84	42.09	54.00	-11.91	AVG			

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

Test Power Supply: DC 51.2V

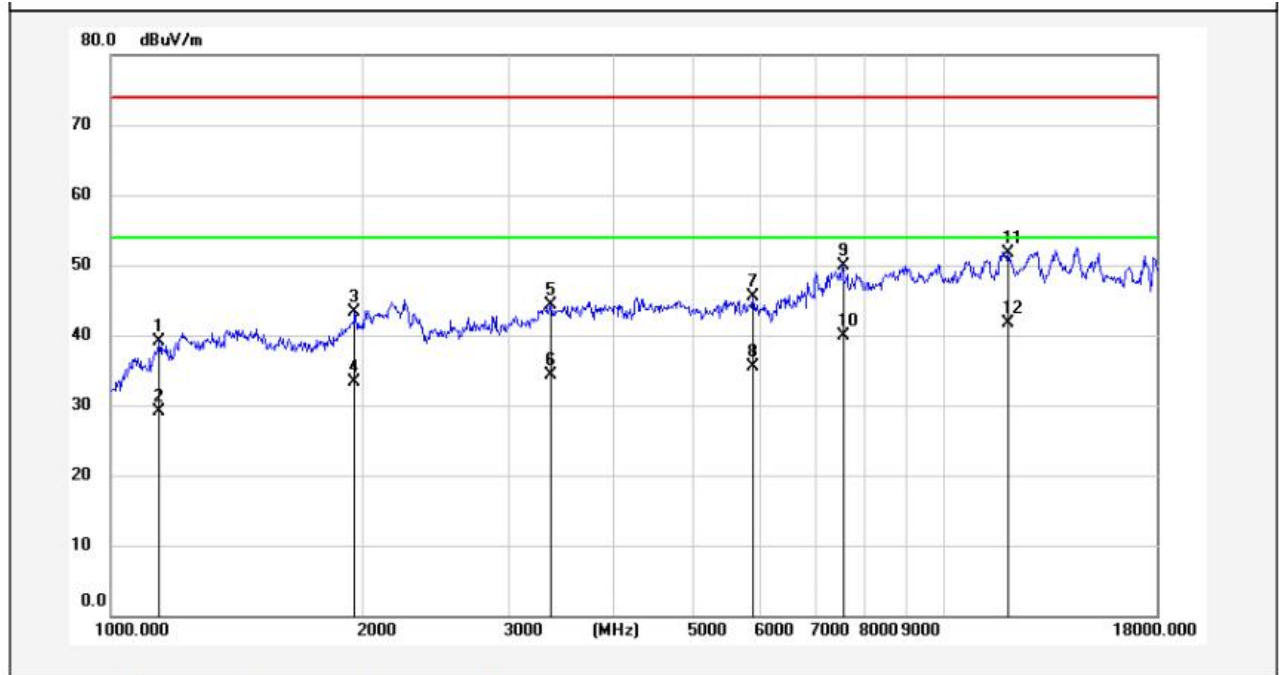


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1103.264	60.31	-19.45	40.86	74.00	-33.14	peak			
2	1103.264	50.31	-19.45	30.86	54.00	-23.14	AVG			
3	2220.523	55.84	-11.95	43.89	74.00	-30.11	peak			
4	2220.523	45.84	-11.95	33.89	54.00	-20.11	AVG			
5	4521.185	55.58	-10.95	44.63	74.00	-29.37	peak			
6	4521.185	45.58	-10.95	34.63	54.00	-19.37	AVG			
7	7432.914	54.78	-3.81	50.97	74.00	-23.03	peak			
8	7432.914	44.78	-3.81	40.97	54.00	-13.03	AVG			
9	11237.329	49.86	2.16	52.02	74.00	-21.98	peak			
10	11237.329	39.86	2.16	42.02	54.00	-11.98	AVG			
11	15310.072	49.41	2.85	52.26	74.00	-21.74	peak			
12	15310.072	39.41	2.85	42.26	54.00	-11.74	AVG			

Temperature:	20.9 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

Test Power Supply: DC 51.2V



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1142.201	65.60	-26.53	39.07	74.00	-34.93	peak			
2	1142.201	55.60	-26.53	29.07	54.00	-24.93	AVG			
3	1961.004	65.39	-22.15	43.24	74.00	-30.76	peak			
4	1961.004	55.39	-22.15	33.24	54.00	-20.76	AVG			
5	3376.523	64.72	-20.42	44.30	74.00	-29.70	peak			
6	3376.523	54.72	-20.42	34.30	54.00	-19.70	AVG			
7	5898.442	59.59	-14.09	45.50	74.00	-28.50	peak			
8	5898.442	49.59	-14.09	35.50	54.00	-18.50	AVG			
9	7541.114	60.73	-10.73	50.00	74.00	-24.00	peak			
10	7541.114	50.73	-10.73	40.00	54.00	-14.00	AVG			
11	11940.535	55.52	-3.90	51.62	74.00	-22.38	peak			
12	11940.535	45.52	-3.90	41.62	54.00	-12.38	AVG			

Remark:

1. Result = Reading + Factor

2. Test frequency are from 1GHz to 25GHz, “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----