

TEST REPORT

Applicant: Shenzhen Huatai Electronics Co., Ltd
Address: Room 1703, Building A, Yonghuayuan Business Building, No. 6 Baotian Second Road, Chengtian Community, Xixiang Street, Shenzhen, Guangdong Province, China
Equipment Type: mmWave Reversing Radar
Model Name: RA2 (refer to section 2.3)
Brand Name: N/A
FCC ID: 2BDGIRA2
Test Standard: 47 CFR Part 15 Subpart C (Section 15.245) (refer to section 3.1)
Sample Arrival Date: May 19, 2026
Test Date: May 19, 2026 - May 31, 2026
Date of Issue: Jun. 12, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Alex Zheng**Checked by:** Li Ganming**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 12, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☐ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Huatai Electronics Co., Ltd
Address	Room 1703, Building A, Yonghuayuan Business Building, No. 6 Baotian Second Road, Chengtian Community, Xixiang Street, Shenzhen, Guangdong Province, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Huatai Electronics Co., Ltd
Address	Room 1703, Building A, Yonghuayuan Business Building, No. 6 Baotian Second Road, Chengtian Community, Xixiang Street, Shenzhen, Guangdong Province, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	mmWave Reversing Radar
Model Name Under Test	RA2
Series Model Name	RA3, RA4, RA5
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name and shell color. (this information provided by the applicant)
Hardware Version	V1.0
Software Version	V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

General technical information:

Network and Wireless connectivity	FMCW, 433MHz
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	10.50GHz –10.55 GHz
Modulation technology	FMCW
Antenna Type	PCB Antenna
Antenna Gain	4.5 dBi

3 SUMMARY OF TEST RESULTS

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Test items and the results are as follows:

No.	Description	FCC Part No.	Test Result	Verdict	Remark
1	20 dB bandwidth	§15.215	ANNEX A.1	Pass	--
2	Radiated Spurious Emissions	§15.245 §15.209 §15.205	ANNEX A.2	Pass	--
3	Antenna Requirements	§15.203	ANNEX A.3	Pass	--
4	Conducted Emission	§15.207	ANNEX A.4	N/A	Note

Note: The EUT is a vehicle equipment, so the Conducted Emission test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	46% to 52%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.1℃ to +24.8℃
Working Voltage of the EUT	NV (Normal Voltage)	12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2025.10.30	2026.10.29
Spectrum Analyzer	KEYSIGHT	N9020A	MY54432240	2026.03.24	2027.03.23
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00884	2025.03.01	2028.02.29
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	EMC Electronic Co, Ltd	9m*6m*6m	213	2026.03.03	2028.03.02
DC power supply	ITECH	IT6720	600010301071 7610000	2025.06.17	2026.06.16
Millimeter Wave Frequency Conversion Receiving Unit	Tonscend	MMFC	202311090002 -MMFC-R190-L0F0	/	/
Millimeter Wave Frequency Conversion Receiving Unit	Tonscend	MMFC	202311090002 -MMFC-R120-L0F0	/	/
Millimeter Wave Frequency Conversion Receiving Unit	Tonscend	MMFC	202311090002 -MMFC-R100-L0F0	/	/
Millimeter Wave Frequency Conversion Receiving Unit	Tonscend	MMFC	202311090002 -MMFC-R60-L0F0	/	/
Millimeter Wave Frequency Conversion Receiving Unit	Tonscend	MMFC	202311090002 -MMFC-R40-L0F0	/	/

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410-E	BALUN	V24724	N/A	The section 4.5.1

4.4 Measurement Uncertainty

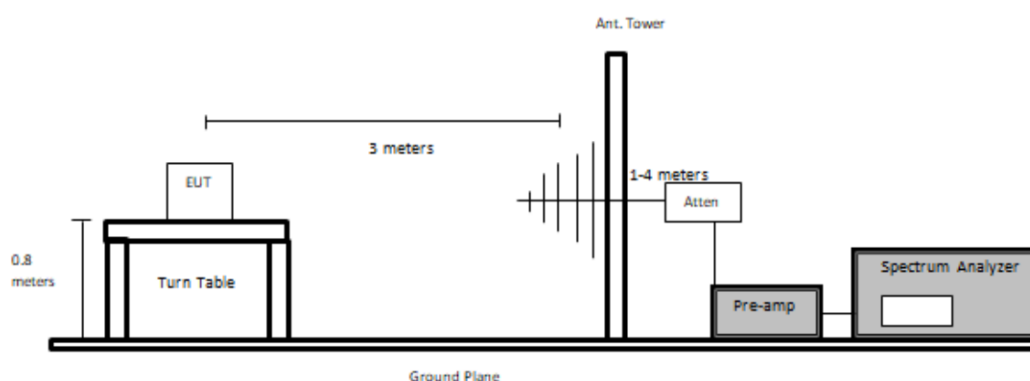
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
RF frequency	0.093 ppm
RF power	4.830 dB
Emissions, radiated (40G~60G)	4.836 dB
Emissions, radiated (30M~40G)	5.36 dB
Conducted emissions (9 kHz-30 MHz)	3.2 dB
Temperature	0.8°C
Voltage (DC)	1%
Humidity	4%

4.5 Description of Test Setup

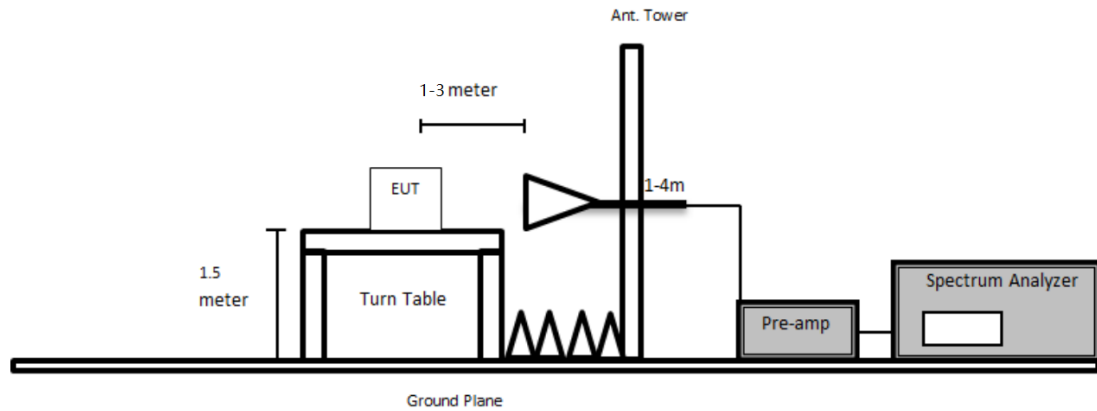
4.5.1 For Radiated Test

Below 1GHz:



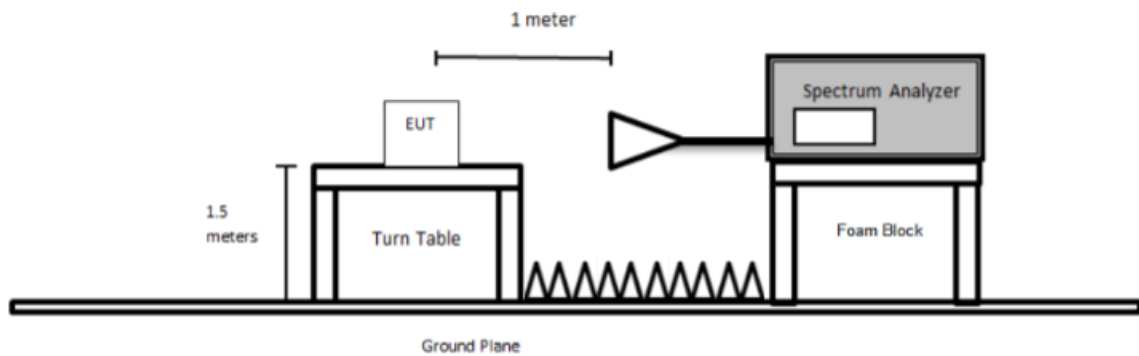
(Diagram 1)

1-40 GHz:



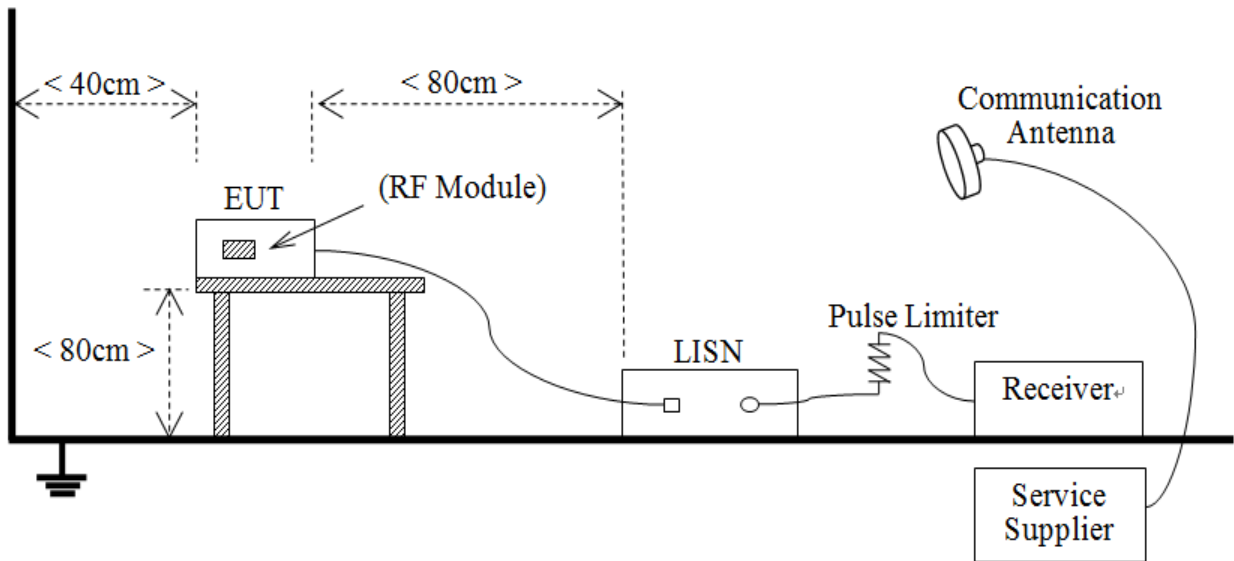
(Diagram 2)

Above 40 GHz:



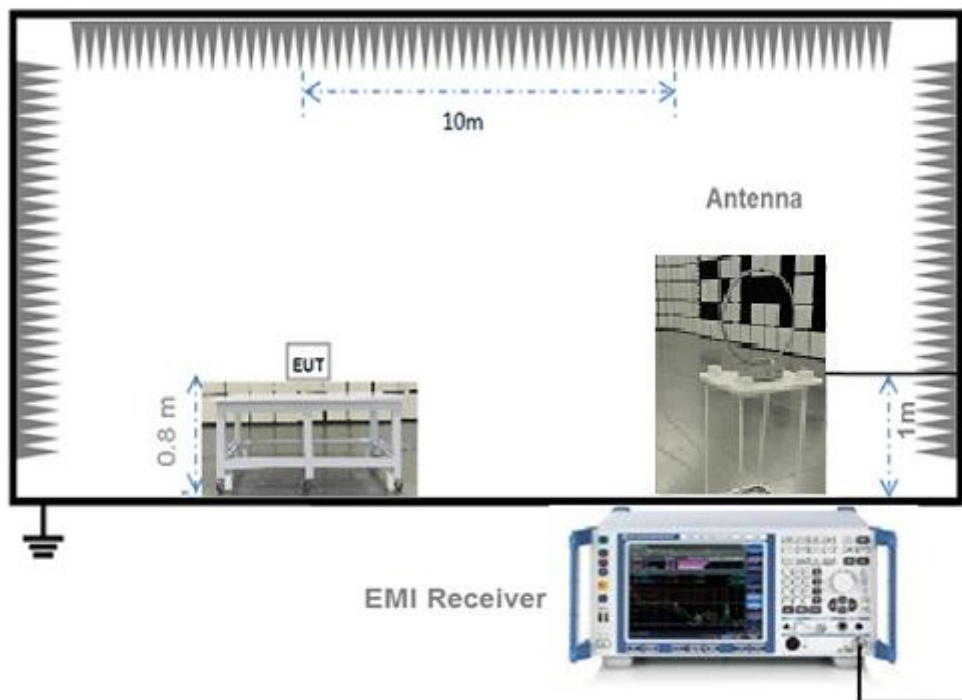
(Diagram 3)

4.5.2 For AC Power Supply Port Test



(Diagram 4)

4.5.3 For Radiated Test (Below 30 MHz)



(Diagram 5)

5 Test Type and Test Results

5.1 Occupied bandwidth

5.1.1 Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through §15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.1.2 Test Setup

The section 4.5.1 (Diagram 2) test setup description was used for this test.

5.1.3 Test Procedure

Reference to ANSI C63.10-2020.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Radiated Spurious Emissions

5.2.1 Limit

According to FCC§15.245 (b), The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902–928	500	1.6
2435-2465	500	1.6
5785-5815	500	1.6
10500-10550	2500	25.0
24075-24175	2500	25.0

(1) Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7 GHz, as specified in §15.205, shall not exceed the field strength limits shown in §15.209. Harmonic emissions in the restricted bands at and above 17.7 GHz shall not exceed the following field strength limits:

(i) For the second and third harmonics of field disturbance sensors operating in the 24075-24175 MHz band and for other field disturbance sensors designed for use only within a building or to open building doors, 25.0 mV/m.

(ii) For all other field disturbance sensors, 7.5 mV/m.

(iii) Field disturbance sensors designed to be used in motor vehicles or aircraft must include features to prevent continuous operation unless their emissions in the restricted bands, other than the second and third harmonics from devices operating in the 24075-24175 MHz band, fully comply with the limits given in § 15.209. Continuous operation of field disturbance sensors designed to be used in farm equipment, vehicles such as fork lifts that are intended primarily for use indoors or for very specialized operations, or railroad locomotives, railroad cars and other equipment which travels on fixed tracks is permitted. A field disturbance sensor will be considered not to be operating in a continuous mode if its operation is limited to specific activities of limited duration (e.g., putting a vehicle into reverse gear, activating a turn signal, etc.).

(2) Field strength limits are specified at a distance of 3 meters.

(3) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement distance (meters)
0.009 - 0.490	2400/F(kHz)	30
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
960-40000	500	3

(4) The emission limits shown above are based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

5.2.2 Test Setup

See the section 4.5.1 (Diagram 1, 2, 3, 5) for test setup description.

5.2.3 Test Procedure

Reference to ANSI C63.10-2020.

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Antenna Requirements

5.3.1 Applicable Standards

According to FCC §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. 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.

5.3.2 Test Result

Please refer to ANNEX A.3.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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 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 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.4.4 Test Result

Please refer to ANNEX A.4.

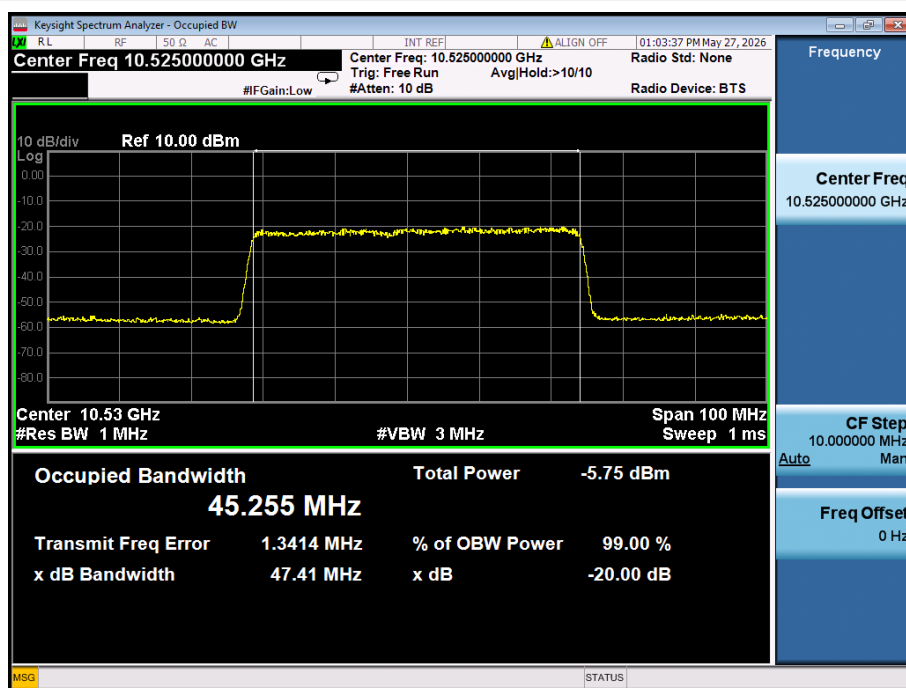
ANNEX A TEST RESULT

A.1 Occupied bandwidth

Test Data

FL (MHz)	FH (MHz)	20dB Bandwidth (MHz)
10503.71	10548.97	47.41

Test Plots



A.2 Radiated Spurious Emissions

Note¹: The symbol of “--” in the table which means not application.

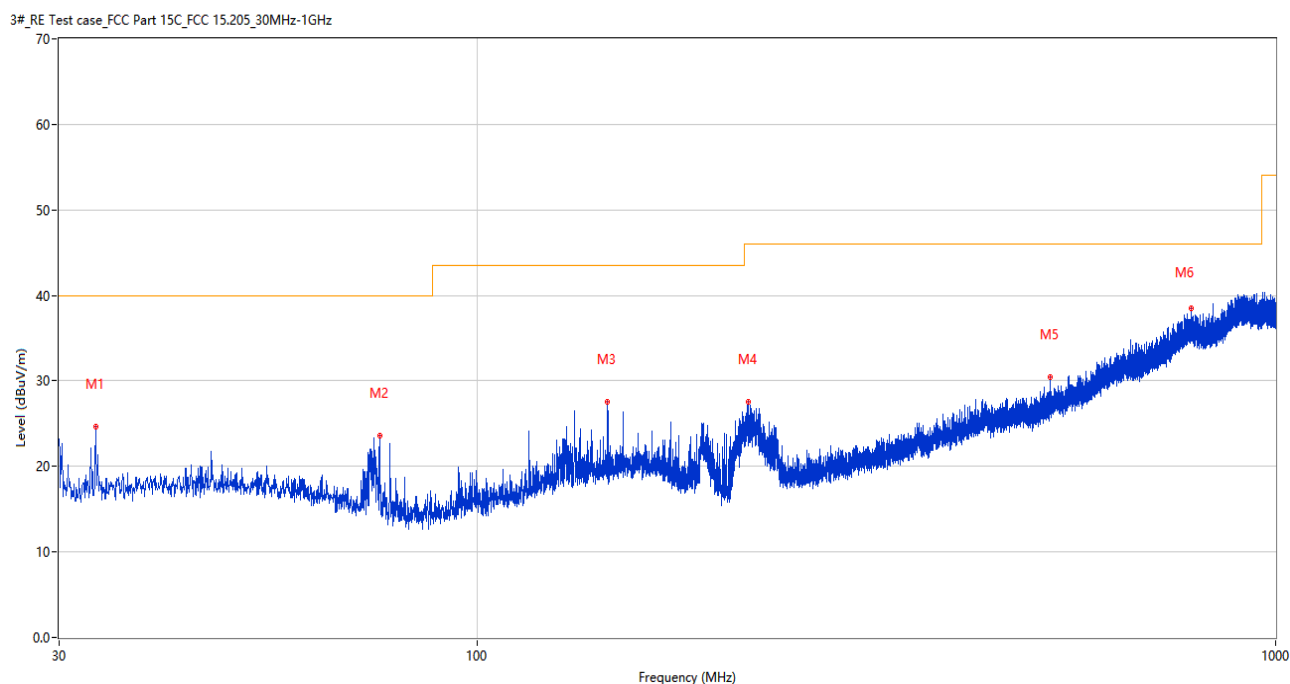
Note²: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.209 was not reported.

Note³: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Note⁴: Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded

Test Data and Plots

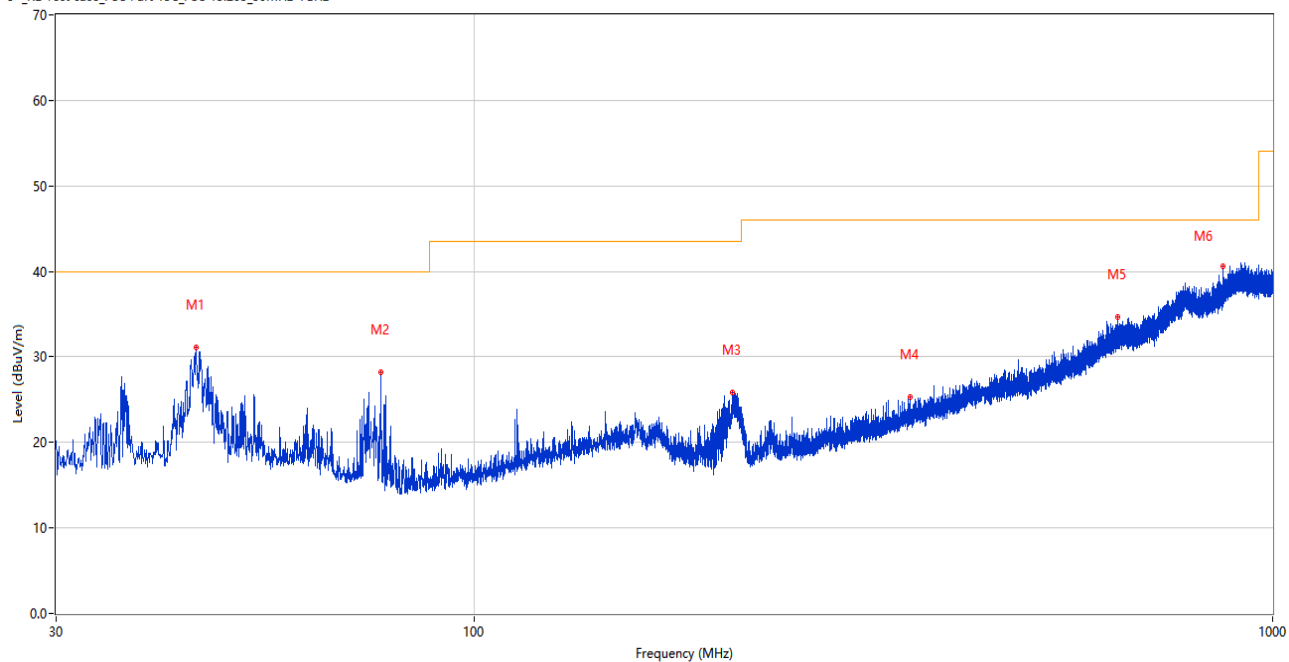
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.346	24.71	40.0	15.29	Peak	120.00	150	Horizontal	Pass
2	75.541	23.64	40.0	16.36	Peak	33.00	150	Horizontal	Pass
3	145.818	27.56	43.5	15.94	Peak	124.00	150	Horizontal	Pass
4	218.810	27.57	46.0	18.43	Peak	360.00	150	Horizontal	Pass
5	522.032	30.47	46.0	15.53	Peak	156.00	150	Horizontal	Pass
6	784.563	38.55	46.0	7.45	Peak	42.00	150	Horizontal	Pass

30 MHz to 1 GHz, ANT V

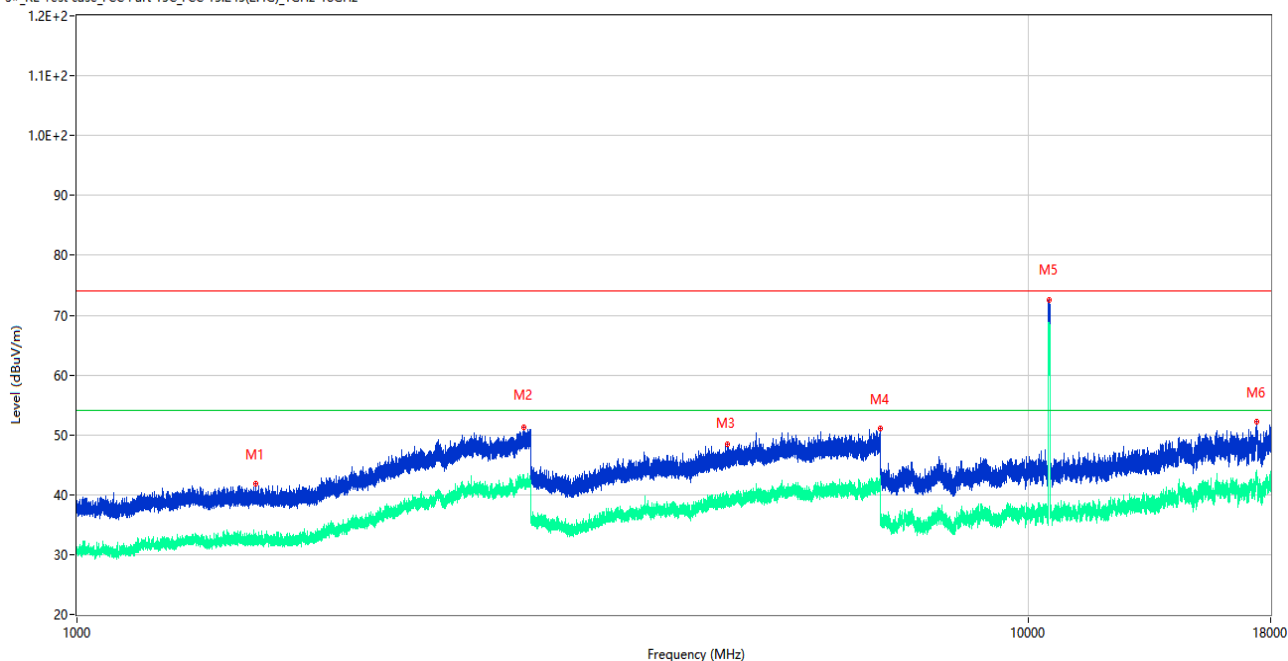
3#_RE Test case_FCC Part 15C_FCC 15.205_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.889	31.09	40.0	8.91	Peak	360.00	150	Vertical	Pass
2	76.511	28.16	40.0	11.84	Peak	360.00	150	Vertical	Pass
3	210.954	25.83	43.5	17.67	Peak	360.00	150	Vertical	Pass
4	351.797	25.33	46.0	20.67	Peak	360.00	150	Vertical	Pass
5	639.209	34.62	46.0	11.38	Peak	360.00	150	Vertical	Pass
6	867.789	40.61	46.0	5.39	Peak	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H

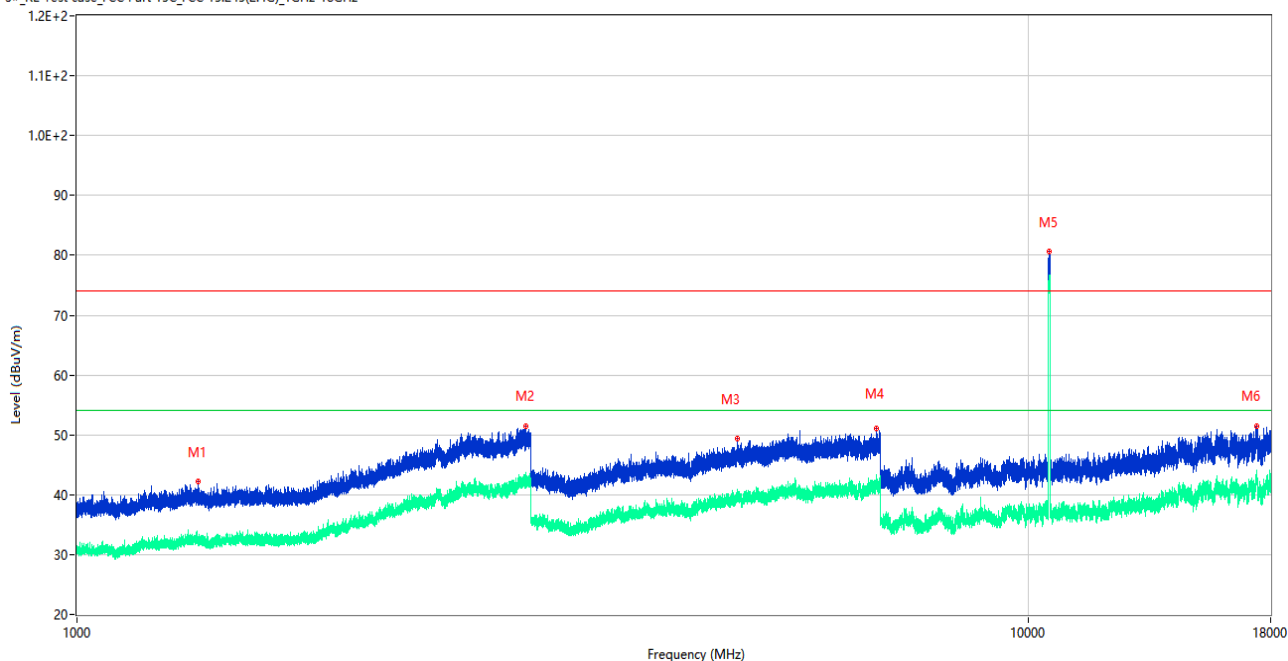
3#_RE Test case_FCC Part 15C_FCC 15.245(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1540.200	41.78	74.0	32.22	Peak	312.00	100	Horizontal	Pass
1**	1540.200	32.53	54.0	21.47	AV	312.00	100	Horizontal	Pass
2	2954.000	51.21	74.0	22.79	Peak	360.00	100	Horizontal	Pass
2**	2954.000	42.54	54.0	11.46	AV	360.00	100	Horizontal	Pass
3	4832.800	48.48	74.0	25.52	Peak	238.00	150	Horizontal	Pass
3**	4832.800	39.61	54.0	14.39	AV	238.00	150	Horizontal	Pass
4	6999.400	51.00	74.0	23.00	Peak	215.00	200	Horizontal	Pass
4**	6999.400	41.95	54.0	12.05	AV	215.00	200	Horizontal	Pass
5	10541.712	72.63	148.0	75.37	Peak	310.00	400	Horizontal	Pass
5**	10541.712	68.77	128.0	59.23	AV	310.00	400	Horizontal	Pass
6	17384.962	52.15	74.0	21.85	Peak	40.00	200	Horizontal	Pass
6**	17384.962	42.43	54.0	11.57	AV	40.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V

3#_RE Test case_FCC Part 15C_FCC 15.245(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1341.300	42.21	74.0	31.79	Peak	0.00	300	Vertical	Pass
1**	1341.300	31.99	54.0	22.01	AV	0.00	300	Vertical	Pass
2	2963.800	51.48	74.0	22.52	Peak	259.00	100	Vertical	Pass
2**	2963.800	43.71	54.0	10.29	AV	259.00	100	Vertical	Pass
3	4945.600	49.36	74.0	24.64	Peak	57.00	100	Vertical	Pass
3**	4945.600	39.98	54.0	14.02	AV	57.00	100	Vertical	Pass
4	6926.200	51.03	74.0	22.97	Peak	0.00	300	Vertical	Pass
4**	6926.200	41.76	54.0	12.24	AV	0.00	300	Vertical	Pass
5	10539.700	80.56	148.0	67.44	Peak	357.00	400	Vertical	Pass
5**	10539.700	76.33	128.0	51.67	AV	357.00	400	Vertical	Pass
6	17411.213	51.39	74.0	22.61	Peak	94.00	100	Vertical	Pass
6**	17411.213	42.23	54.0	11.77	AV	94.00	100	Vertical	Pass

NOTE: 18 GHz to 40 GHz 1-meter distance is calculated from the corrected field strength by using the following formula. According to the 20 dB/decade of distance extrapolation method specified in ANSI C63.10-2020 Clause 5.3.3

$$E_1[\text{dB}\mu\text{V/m}] = E_2[\text{dB}\mu\text{V/m}] + 20\log(d_2/d_1)$$

E_1 : Field strength at 1-meter distance (dB μ V/m)

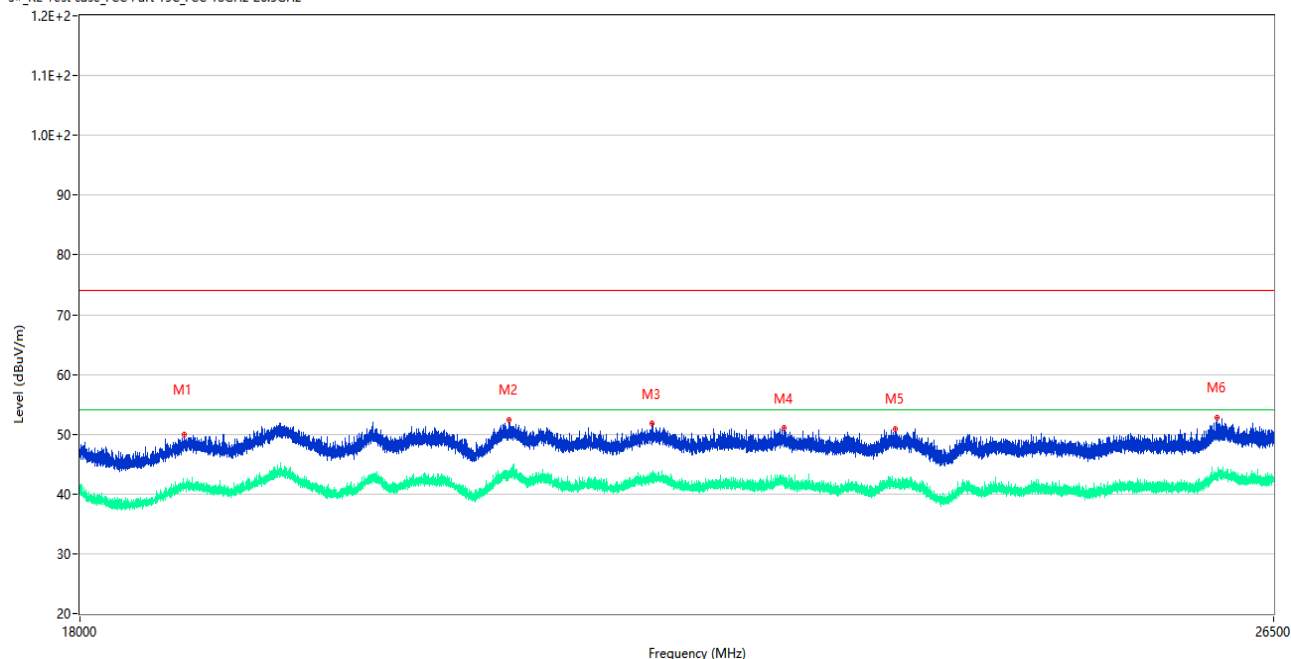
E_2 : Field strength at 3-meter distance (dB μ V/m)

d_1 : 1 meter

d_2 : 3 meter

18 GHz to 26.5 GHz, ANT H

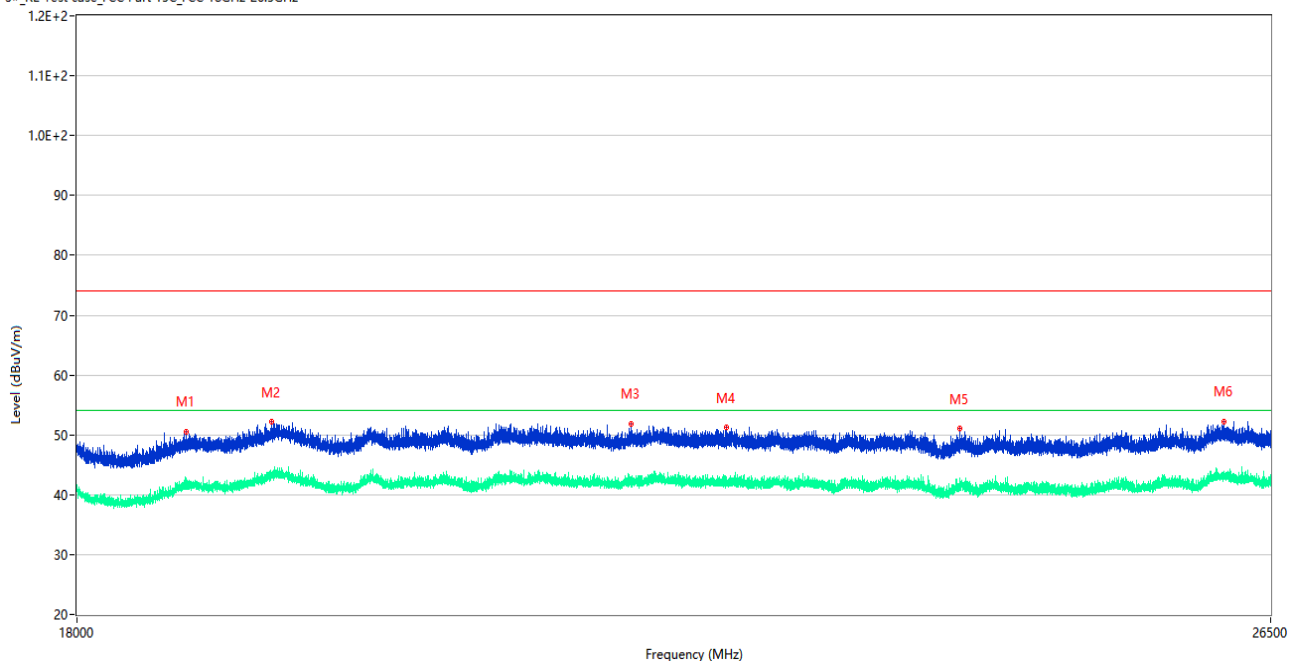
3#_RE Test case_FCC Part 15C_FCC 18GHz-26.5GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	18620.500	49.98	74.0	24.02	Peak	102.00	150	Horizontal	Pass
1**	18620.500	41.89	54.0	12.11	AV	102.00	150	Horizontal	Pass
2	20683.448	52.43	74.0	21.57	Peak	69.00	150	Horizontal	Pass
2**	20683.448	42.66	54.0	11.34	AV	69.00	150	Horizontal	Pass
3	21666.474	51.80	74.0	22.20	Peak	351.00	150	Horizontal	Pass
3**	21666.474	41.89	54.0	12.11	AV	351.00	150	Horizontal	Pass
4	22615.927	50.98	74.0	23.02	Peak	360.00	150	Horizontal	Pass
4**	22615.927	41.60	54.0	12.40	AV	360.00	150	Horizontal	Pass
5	23441.699	50.91	74.0	23.09	Peak	50.00	150	Horizontal	Pass
5**	23441.699	41.56	54.0	12.44	AV	50.00	150	Horizontal	Pass
6	26020.176	52.80	74.0	21.20	Peak	360.00	150	Horizontal	Pass
6**	26020.176	43.23	54.0	10.77	AV	360.00	150	Horizontal	Pass

18 GHz to 26.5 GHz, ANT V

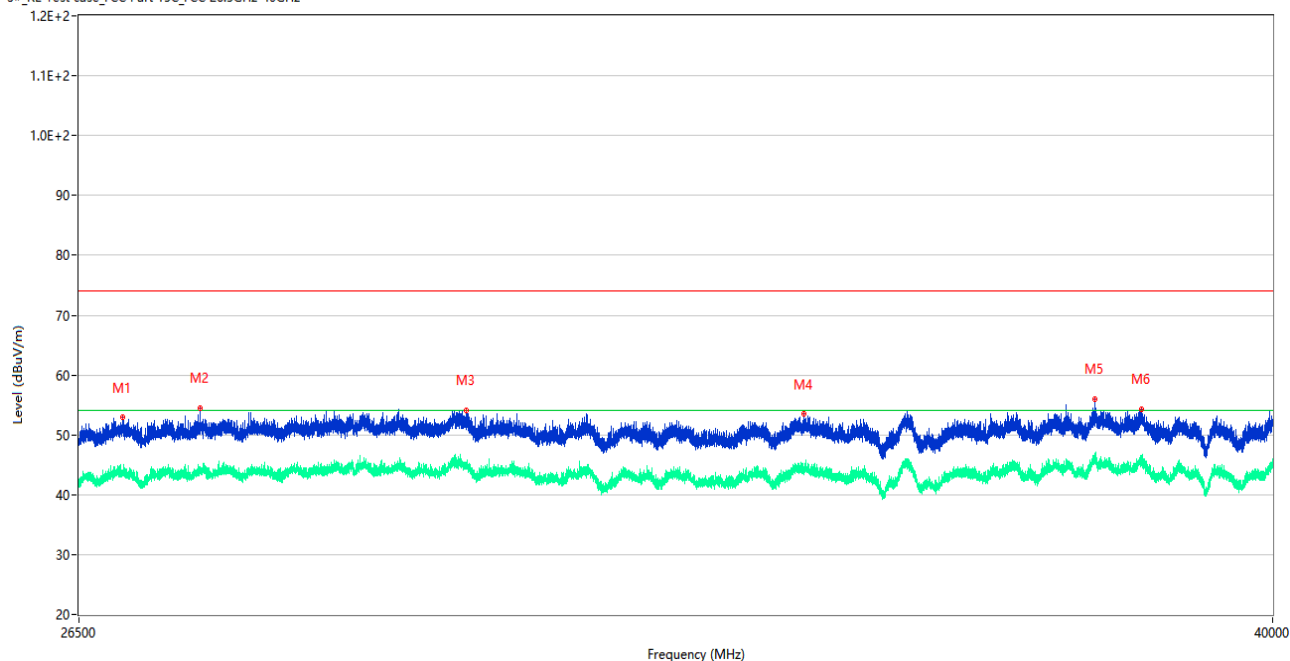
3#_RE Test case_FCC Part 15C_FCC 18GHz-26.5GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	18649.823	50.50	74.0	23.50	Peak	0.00	150	Vertical	Pass
1**	18649.823	41.31	54.0	12.69	AV	0.00	150	Vertical	Pass
2	19170.449	52.16	74.0	21.84	Peak	184.00	150	Vertical	Pass
2**	19170.449	42.93	54.0	11.07	AV	184.00	150	Vertical	Pass
3	21541.100	51.91	74.0	22.09	Peak	57.00	150	Vertical	Pass
3**	21541.100	42.26	54.0	11.74	AV	57.00	150	Vertical	Pass
4	22218.551	51.24	74.0	22.76	Peak	200.00	150	Vertical	Pass
4**	22218.551	41.90	54.0	12.10	AV	200.00	150	Vertical	Pass
5	23958.925	50.99	74.0	23.01	Peak	111.00	150	Vertical	Pass
5**	23958.925	41.14	54.0	12.86	AV	111.00	150	Vertical	Pass
6	26101.776	52.28	74.0	21.72	Peak	360.00	150	Vertical	Pass
6**	26101.776	43.02	54.0	10.98	AV	360.00	150	Vertical	Pass

26.5 GHz to 40 GHz, ANT H

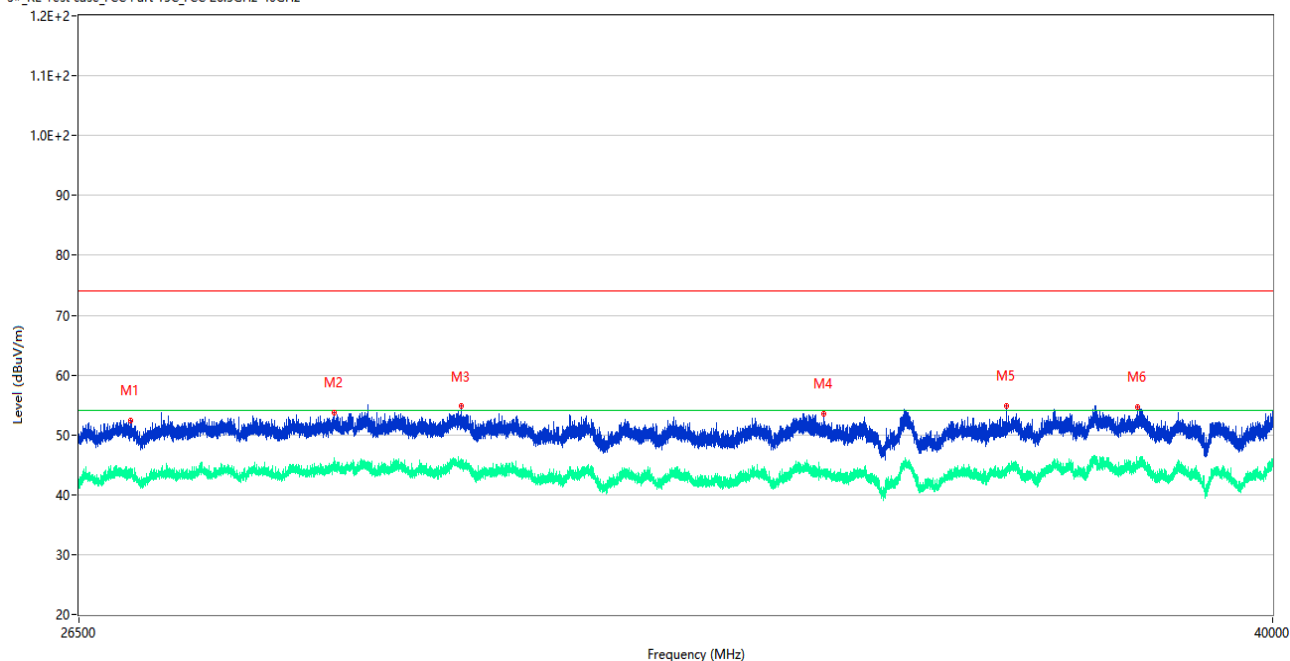
3#_RE Test case_FCC Part 15C_FCC 26.5GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	26903.650	52.90	74.0	21.10	Peak	129.00	150	Horizontal	Pass
1**	26903.650	43.17	54.0	10.83	AV	129.00	150	Horizontal	Pass
2	27633.324	54.49	74.0	19.51	Peak	21.00	150	Horizontal	Pass
2**	27633.324	44.71	54.0	9.29	AV	21.00	150	Horizontal	Pass
3	30282.699	54.12	74.0	19.88	Peak	104.00	150	Horizontal	Pass
3**	30282.699	45.18	54.0	8.82	AV	104.00	150	Horizontal	Pass
4	34028.274	53.49	74.0	20.51	Peak	337.00	150	Horizontal	Pass
4**	34028.274	44.61	54.0	9.39	AV	337.00	150	Horizontal	Pass
5	37619.274	56.03	74.0	17.97	Peak	2.00	150	Horizontal	Pass
5**	37619.274	46.84	54.0	7.16	AV	2.00	150	Horizontal	Pass
6	38231.499	54.37	74.0	19.63	Peak	100.00	150	Horizontal	Pass
6**	38231.499	46.51	54.0	7.49	AV	100.00	150	Horizontal	Pass

26.5 GHz to 40 GHz, ANT V

3#_RE Test case_FCC Part 15C_FCC 26.5GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	26971.824	52.44	74.0	21.56	Peak	0.00	150	Vertical	Pass
1**	26971.824	43.40	54.0	10.60	AV	0.00	150	Vertical	Pass
2	28941.474	53.76	74.0	20.24	Peak	188.00	150	Vertical	Pass
2**	28941.474	46.17	54.0	7.83	AV	188.00	150	Vertical	Pass
3	30240.176	54.79	74.0	19.21	Peak	124.00	150	Vertical	Pass
3**	30240.176	44.65	54.0	9.35	AV	124.00	150	Vertical	Pass
4	34259.800	53.59	74.0	20.41	Peak	251.00	150	Vertical	Pass
4**	34259.800	44.23	54.0	9.77	AV	251.00	150	Vertical	Pass
5	36485.947	54.91	74.0	19.09	Peak	57.00	150	Vertical	Pass
5**	36485.947	44.32	54.0	9.68	AV	57.00	150	Vertical	Pass
6	38174.802	54.68	74.0	19.32	Peak	76.00	150	Vertical	Pass
6**	38174.802	45.70	54.0	8.30	AV	76.00	150	Vertical	Pass

Test Data

Radiated Spurious Emission 40 GHz - 200 GHz				
Frequency	Results (dBm)	Margin (dB)	Limit (dBm)	Polarization
40 GHz - 60 GHz	-52.105	30.905	-21.2(Average)	Vertical
40 GHz - 60 GHz	-42.817	41.617	-1.2(Peak)	Vertical

Harmonics:

Note 1: 7.5 mV/m at a distance of 3 meters According to the formula given in Appendix G of C63.10-2020, $S = E^2/377$, S represents power density (W/m²), and E represents electric field intensity (V/m).

$$E \approx 77.5 \text{ dBuV/m}$$

$$P \text{ (dBm)} = E[\text{dBuV/m}] + 20\log(d[\text{m}]) - 104.77$$

$$P \text{ (dBm)} \approx -17.7 \text{ dBm}$$

Not Harmonics:

$$E \approx 54 \text{ dBuV/m}$$

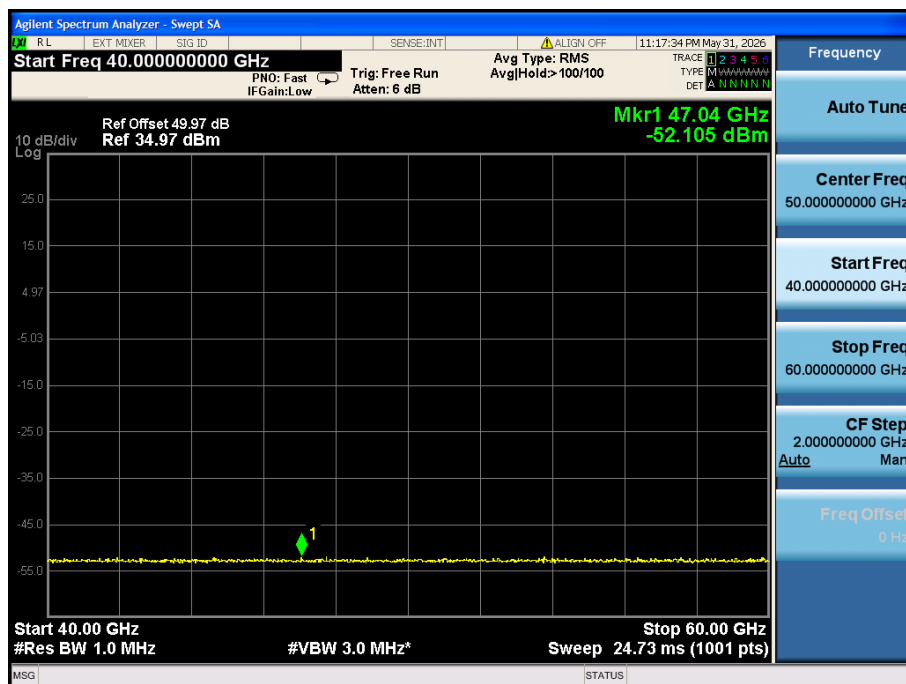
$$P \text{ (dBm)} = E[\text{dBuV/m}] + 20\log(d[\text{m}]) - 104.77$$

$$P \text{ (dBm)} \approx -21.2 \text{ dBm}$$

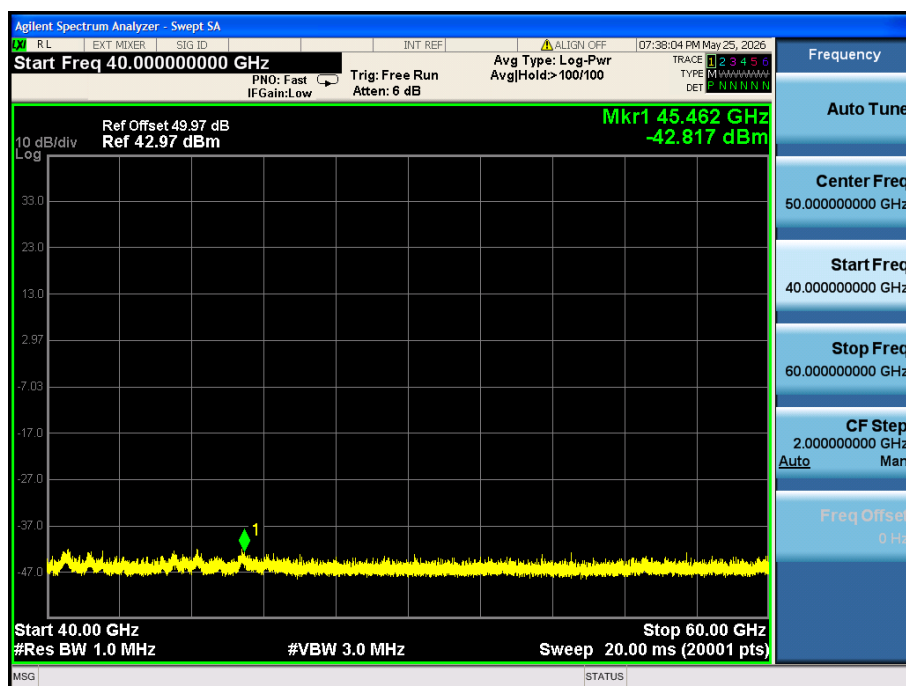
Note 2: The antenna polarity directions above 40GHz have been tested, but only the worst-case scenario is reflected in this report.

Test Plots

40 GHz - 60 GHz (Average)



40 GHz - 60 GHz (Peak)



A.3 Antenna Requirements

Antenna Description

Antenna usage	Band of Operation (GHz)	Maximum Antenna Gain (dBi)
PCB Antenna	10.500-10.550	4.5

Note: The maximum antenna gain was provided by the manufacturer.

A.4 Conducted Emissions

Note: Not applicable.

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26040395-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26040395-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26040395-AI.PDF”.

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--END OF REPORT--