

TEST REPORT

Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road,
Xili Community, Xili Street, Nanshan District,
518055 Shenzhen, China
Equipment Type: Fixed Millimeter Wave Radar
Model Name: RD600304FU
Brand Name: DJI
FCC ID: SS3-RD60B2510
Test Standard: 47 CFR Part 15 Subpart C (Section 15.255)
(refer to section 3.1)
Sample Arrival Date: Oct. 29, 2025
Test Date: Nov. 05, 2025 - Nov. 30, 2025
Date of Issue: Dec. 17, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Alex Zheng**Checked by:** Ye Hongji**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 17, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
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	SZ DJI TECHNOLOGY CO., LTD.
Address	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China

2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

2.3 General Description for Equipment under Test (EUT)

EUT Name	Fixed Millimeter Wave Radar
Model Name Under Test	RD600304FU
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

General technical information:

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

Frequency Range	60GHz – 64 GHz
Modulation technology	FMCW
Antenna Type	Linear Antenna
Antenna Gain	5.0 dBi
The Max RF Output power	14.366 dBm

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
1	Fundamental EIRP Output Power	FCC §15.255(b) (3)	ANNEX A.1	Pass
2	Occupied bandwidth	FCC §15.215	ANNEX A.2	Pass
3	Timing Requirements	FCC §15.255(b)(3)	ANNEX A.1	Pass
4	Radiated Spurious Emissions	FCC §15.255(d) FCC §15.209 FCC §15.205	ANNEX A.3	Pass
5	Frequency stability	FCC §15.255(f)	ANNEX A.4	Pass
6	Antenna Requirements	§15.203	ANNEX A.5	Pass

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	52% to 58%	
Atmospheric Pressure	98 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+24.1°C to +24.8°C
	LT (Low Temperature)	0.0°C
	HT (High Temperature)	+40.0°C
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V
	LV (Low Voltage)	3.42 V
	HV (High Voltage)	4.18 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY54432240	2025.04.29	2026.04.28
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	2459	2023.10.26	2026.10.25
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	EMC Electronic Co, Ltd	9m*6m*6m	107	2024.05.12	2027.05.11
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

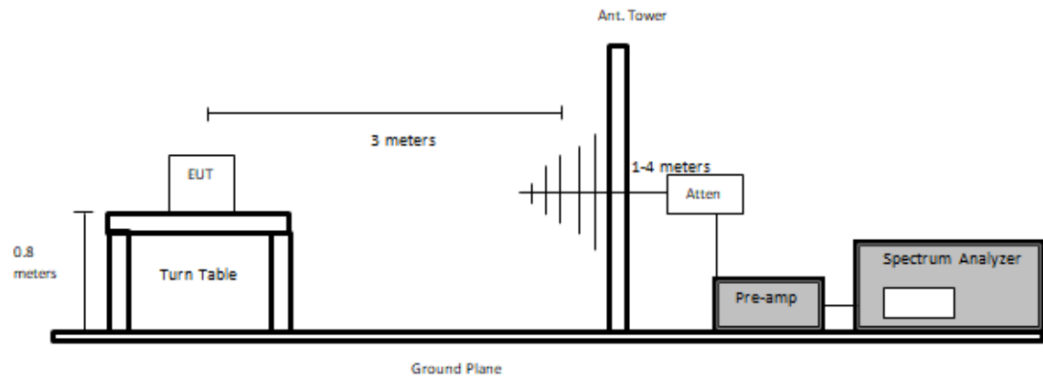
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
RF frequency	0.093 ppm
RF power	4.830 dB
Emissions, radiated (40G~60G)	4.836 dB
Emissions, radiated (60G~90G)	4.830 dB
Emissions, radiated (90G~110G)	4.830 dB
Emissions, radiated (110G~170G)	4.835 dB
Emissions, radiated (170G~260G)	4.835 dB
Emissions, radiated (30M~40G)	5.36 dB
Temperature	0.8°C
Voltage (DC)	1%
Humidity	4%

4.5 Description of Test Setup

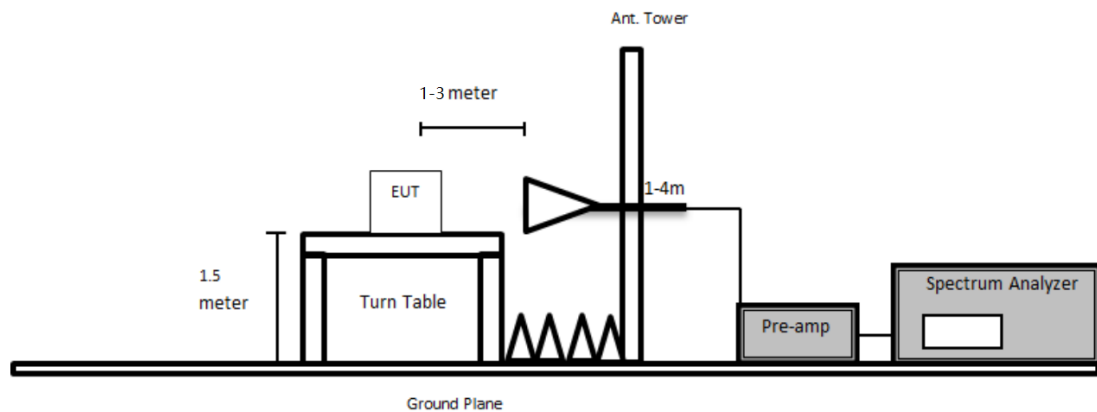
4.5.1 For Radiated Test

Below 1GHz:



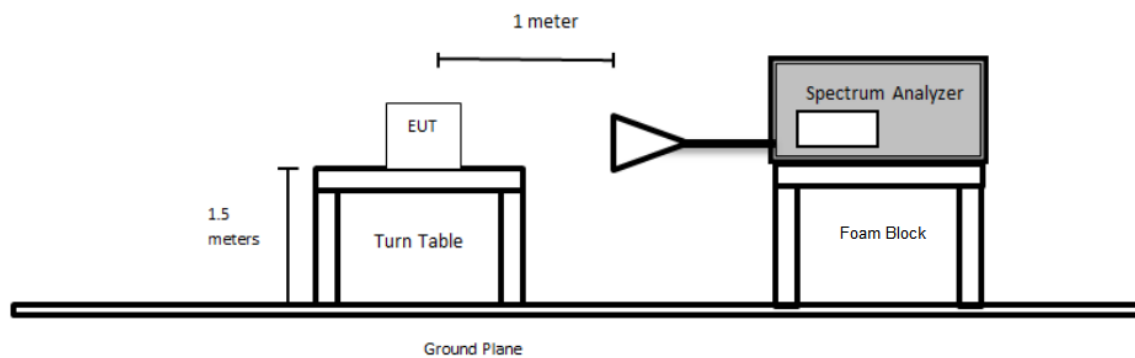
(Diagram 1)

1-40 GHz:



(Diagram 2)

Above 40 GHz:



(Diagram 3)

5 Test Type and Test Results

5.1 Transmitter Parameters

5.1.1 Fundamental EIRP Output Power

5.1.1.1 Limit

FCC §15.255(b) (3)

Field disturbance sensors/radar devices deployed on unmanned aircraft may operate within the frequency band 60-64 GHz, provided that the transmitter not exceed 20 dBm peak EIRP. The sum of continuous transmitter off-times of at least two milliseconds shall equal at least 16.5 milliseconds within any contiguous interval of 33 milliseconds.

5.1.1.2 Test Setup

The section 4.5.1 (Diagram 3) test setup description was used for this test.

5.1.1.3 Test Procedure

Reference to ANSI C63.10-2020.

5.1.1.4 Test Result

Please refer to ANNEX A.1.

5.1.2 Occupied bandwidth

5.1.2.1 Limit

N/A.

5.1.2.2 Test Setup

The section 4.5.1 (Diagram 3) test setup description was used for this test.

5.1.2.3 Test Procedure

Reference to ANSI C63.10-2020.

5.1.2.4 Test Result

Please refer to ANNEX A.2.

5.1.3 Radiated Spurious Emissions

5.1.3.1 Limit

Radiated emissions below 40 GHz shall not exceed the general limits in § 15.209.

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 (μV/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

Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90 pW/cm² at a distance of 3 meters.

Frequency Range	FCC
40-200 GHz	90 pW/cm ²

5.1.3.2 Test Setup

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

5.1.3.3 Test Procedure

Reference to ANSI C63.10-2020.

5.1.3.4 Test Result

Please refer to ANNEX A.3.

5.1.4 Frequency stability

5.1.4.1 Limit

Frequency range $f(\text{lowest}) \geq 60.0 \text{ GHz}$, $f(\text{highest}) \leq 64.0 \text{ GHz}$

5.1.4.2 Test Setup

See the section 4.5.1 (Diagram 3) for test setup description.

5.1.4.3 Test Procedure

Reference to ANSI C63.10-2020.

5.1.4.4 Test Result

Please refer to ANNEX A.4.

5.1.5 Antenna Requirements

5.1.5.1 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.

5.1.5.2 Test Result

Please refer to ANNEX A.5.

ANNEX A TEST RESULT

A.1 Fundamental EIRP Output Power and Timing Requirements

Peak Data

Modulation Mode			FMCW		
Limit (dBm/)			20		
Test Result					
Test Method	Test Conditions		PSA Reading (dBm)	Duty Cycle Correction Factor (dB)	Peak Power (dBm)
☒ Radiated ☐ Conducted	Temperature	Voltage			
	NT	NV			
Test Verdict			Pass		

Test Data

Transmission Time Restriction	
Total OFF Time (ms)	
Result	31.89
	Pass
OFF Time Limit (ms)	$\geq 16.5\text{ms}$

Note: OFF Time (ms) = 33 ms - Total ON Time (ms)

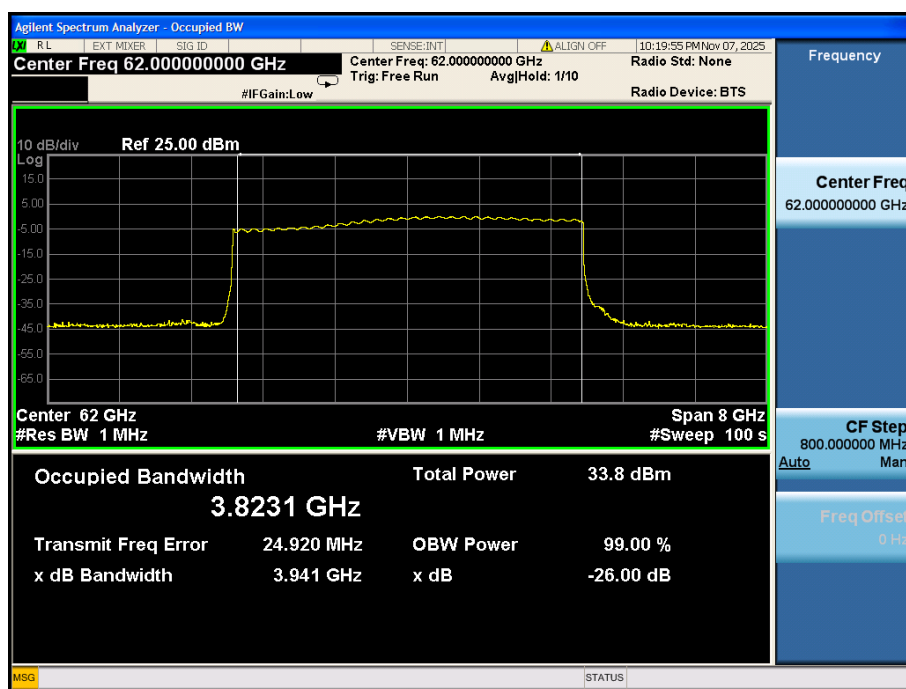
A.2 Occupied bandwidth

Test Data

FL (MHz)	FH (MHz)	99% Bandwidth (GHz)
60113.913	63938.413	3.8231

Test Plots

Occupied Bandwidth

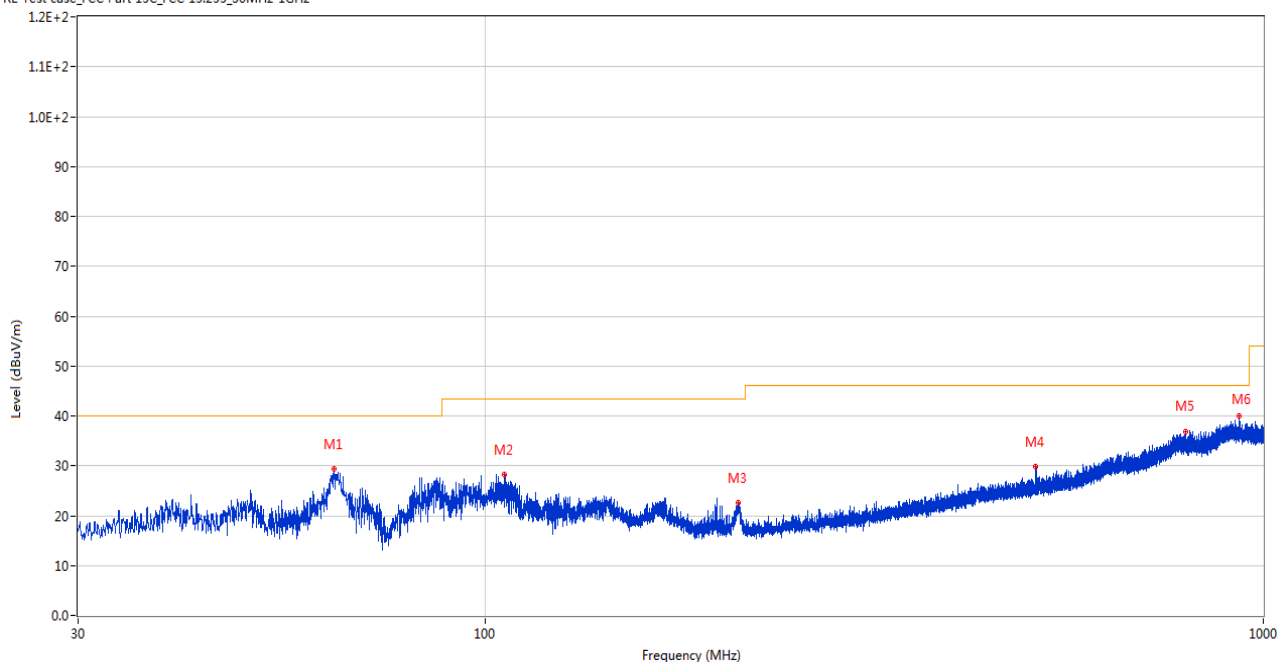


A.3 Radiated Spurious Emissions

Test Data and Plots

30 MHz to 1 GHz, ANT H Measured at 3 meter

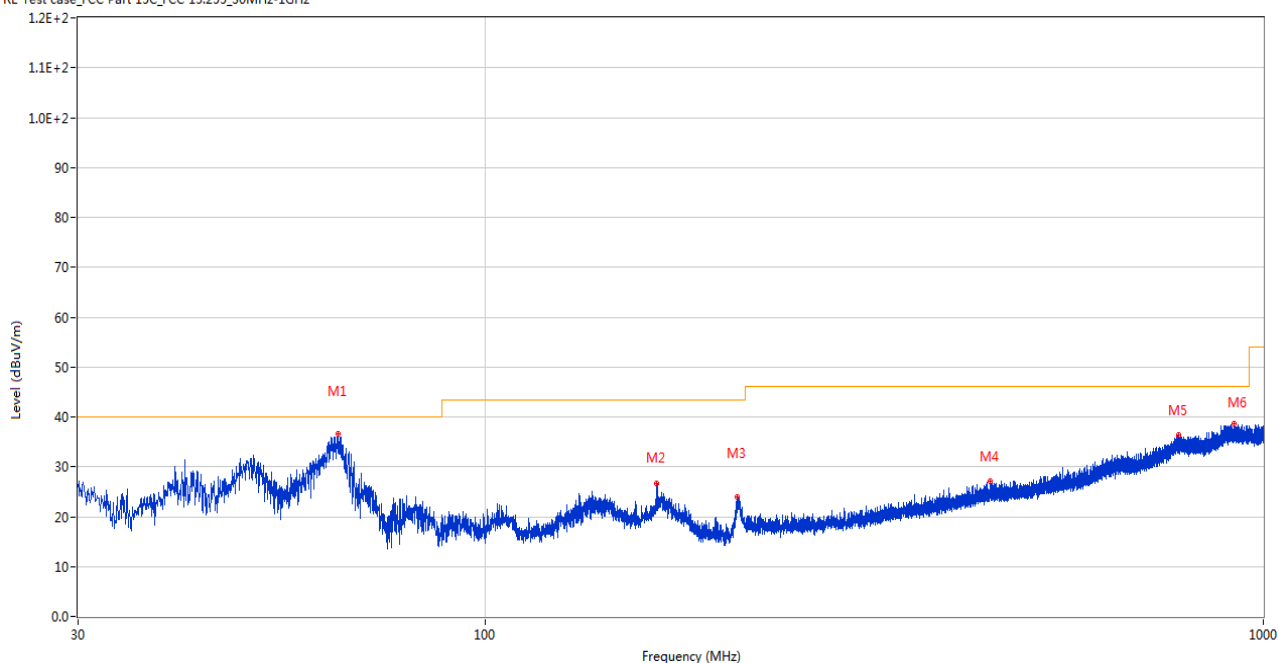
RE Test case_FCC Part 15C_FCC 15.255_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.998	29.28	40.0	10.72	Peak	354.00	100	Horizontal	Pass
2	106.048	28.31	43.5	15.19	Peak	216.00	150	Horizontal	Pass
3	211.778	22.65	43.5	20.85	Peak	123.00	100	Horizontal	Pass
4	510.441	29.79	46.0	16.21	Peak	183.00	150	Horizontal	Pass
5	794.312	36.92	46.0	9.08	Peak	343.00	100	Horizontal	Pass
6	929.820	39.90	46.0	6.10	Peak	79.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V Measured at 3 meter

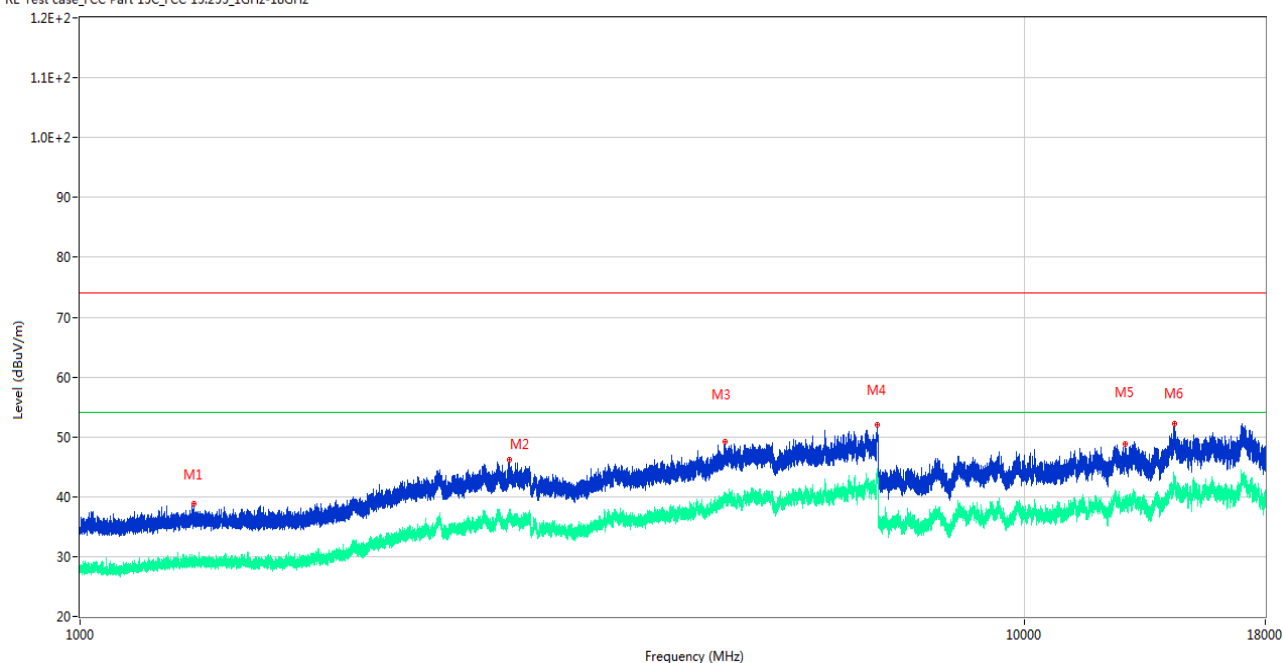
RE Test case_FCC Part 15C_FCC 15.255_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	64.726	36.51	40.0	3.49	Peak	85.00	200	Vertical	Pass
2	166.334	26.78	43.5	16.72	Peak	258.00	150	Vertical	Pass
3	210.663	24.01	43.5	19.49	Peak	87.00	200	Vertical	Pass
4	446.276	27.17	46.0	18.83	Peak	158.00	150	Vertical	Pass
5	777.870	36.37	46.0	9.63	Peak	356.00	400	Vertical	Pass
6	916.580	38.75	46.0	7.25	Peak	219.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H Measured at 3 meter

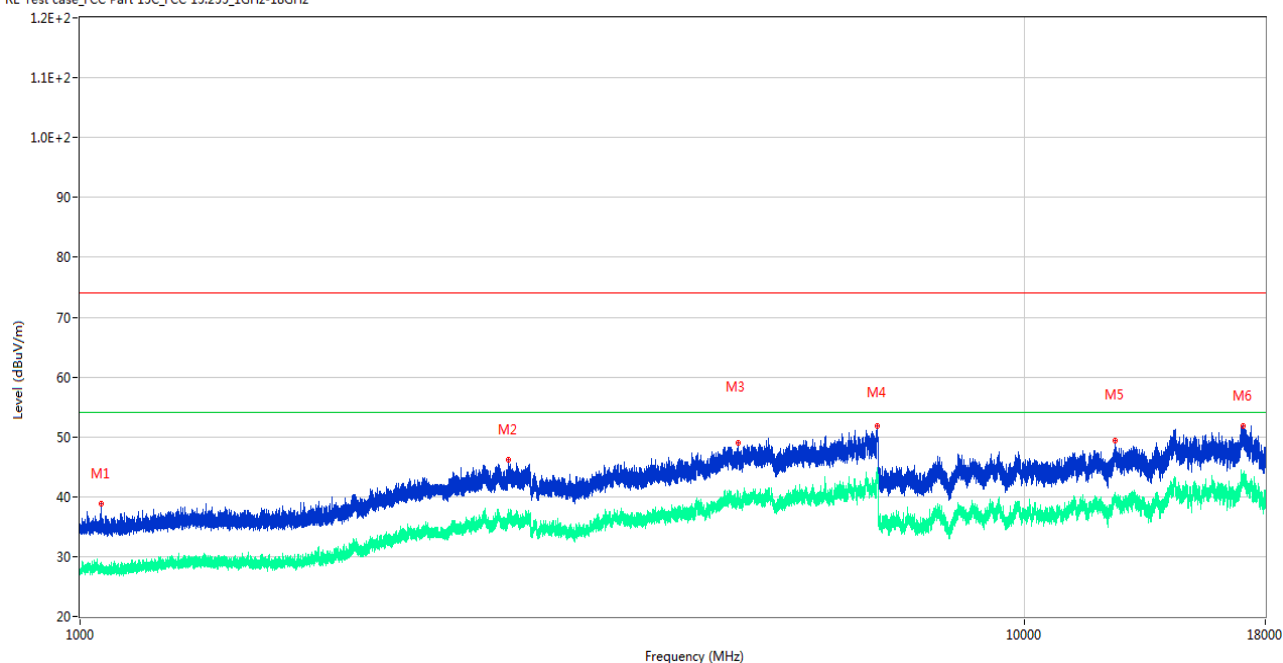
RE Test case_FCC Part 15C_FCC 15.255_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1320.300	38.80	74.0	35.20	Peak	216.00	400	Horizontal	Pass
1**	1320.300	28.53	54.0	25.47	AV	216.00	400	Horizontal	Pass
2	2849.800	46.20	74.0	27.80	Peak	193.00	150	Horizontal	Pass
2**	2849.800	37.21	54.0	16.79	AV	193.00	150	Horizontal	Pass
3	4822.400	49.16	74.0	24.84	Peak	72.00	150	Horizontal	Pass
3**	4822.400	39.81	54.0	14.19	AV	72.00	150	Horizontal	Pass
4	6987.800	52.01	74.0	21.99	Peak	359.00	100	Horizontal	Pass
4**	6987.800	43.18	54.0	10.82	AV	359.00	100	Horizontal	Pass
5	12799.350	48.77	74.0	25.23	Peak	24.00	200	Horizontal	Pass
5**	12799.350	38.99	54.0	15.01	AV	24.00	200	Horizontal	Pass
6	14425.012	52.21	74.0	21.79	Peak	317.00	200	Horizontal	Pass
6**	14425.012	42.48	54.0	11.52	AV	317.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V Measured at 3 meter

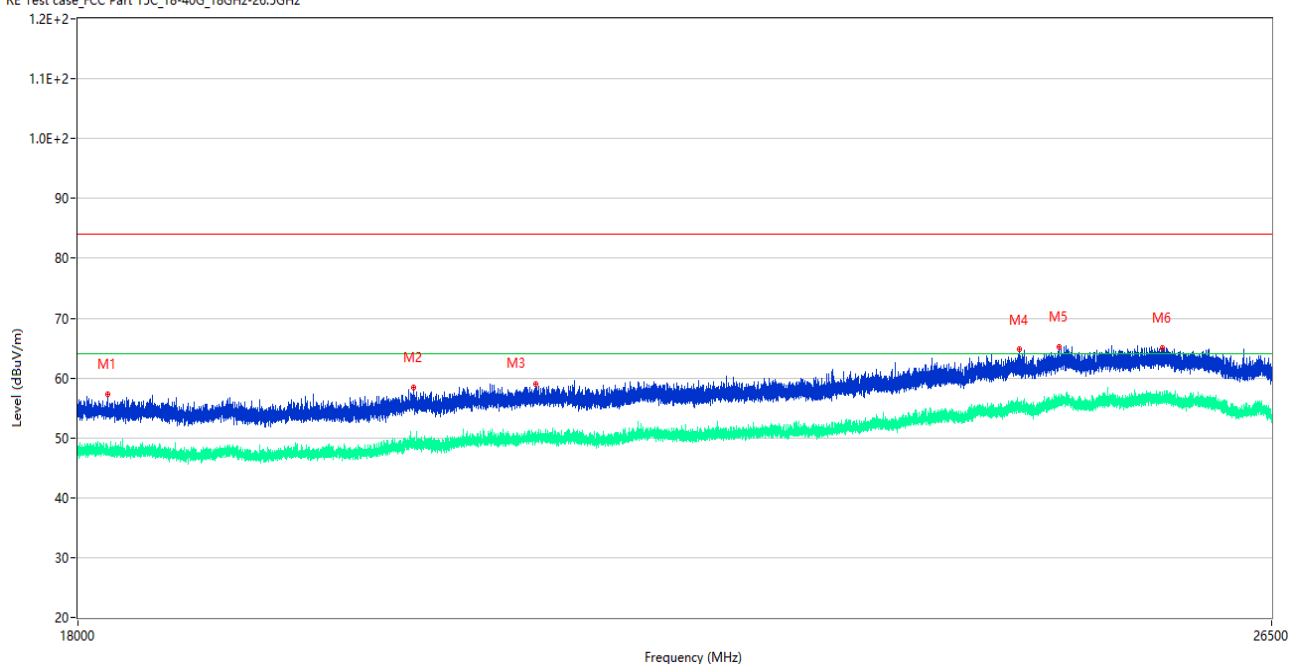
RE Test case_FCC Part 15C_FCC 15.255_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1051.700	38.83	74.0	35.17	Peak	359.00	400	Vertical	Pass
1**	1051.700	28.98	54.0	25.02	AV	359.00	400	Vertical	Pass
2	2845.000	46.21	74.0	27.79	Peak	230.00	150	Vertical	Pass
2**	2845.000	36.72	54.0	17.28	AV	230.00	150	Vertical	Pass
3	4981.800	48.97	74.0	25.03	Peak	74.00	100	Vertical	Pass
3**	4981.800	39.45	54.0	14.55	AV	74.00	100	Vertical	Pass
4	6993.600	51.88	74.0	22.12	Peak	104.00	400	Vertical	Pass
4**	6993.600	43.47	54.0	10.53	AV	104.00	400	Vertical	Pass
5	12485.500	49.32	74.0	24.68	Peak	0.00	300	Vertical	Pass
5**	12485.500	39.33	54.0	14.67	AV	0.00	300	Vertical	Pass
6	17068.912	51.83	74.0	22.17	Peak	185.00	400	Vertical	Pass
6**	17068.912	43.15	54.0	10.85	AV	185.00	400	Vertical	Pass

18 GHz to 26.5 GHz ANT H Measured at 1 meter

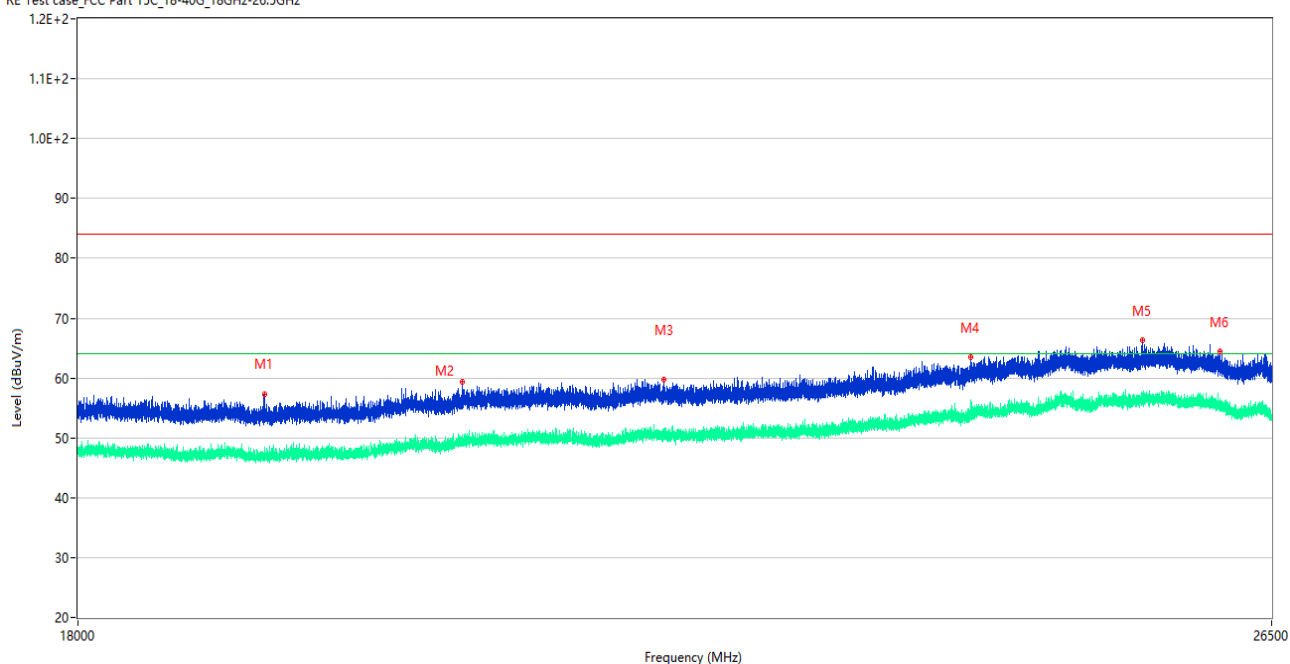
RE Test case_FCC Part 15C_18-40G_18GHz-26.5GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	18176.801	57.36	84.0	26.64	Peak	99.00	300	Horizontal	Pass
1**	18176.801	47.75	64.0	16.25	AV	99.00	300	Horizontal	Pass
2	20066.775	58.47	84.0	25.53	Peak	34.00	100	Horizontal	Pass
2**	20066.775	49.66	64.0	14.34	AV	34.00	100	Horizontal	Pass
3	20880.224	59.00	84.0	25.00	Peak	298.00	200	Horizontal	Pass
3**	20880.224	49.81	64.0	14.19	AV	298.00	200	Horizontal	Pass
4	24420.051	64.75	84.0	19.25	Peak	134.00	100	Horizontal	Pass
4**	24420.051	55.03	64.0	8.97	AV	134.00	100	Horizontal	Pass
5	24732.850	65.23	84.0	18.77	Peak	7.00	100	Horizontal	Pass
5**	24732.850	55.98	64.0	8.02	AV	7.00	100	Horizontal	Pass
6	25575.625	64.95	84.0	19.05	Peak	161.00	100	Horizontal	Pass
6**	25575.625	57.65	64.0	6.35	AV	161.00	100	Horizontal	Pass

18 GHz to 26.5 GHz ANT V Measured at 1 meter

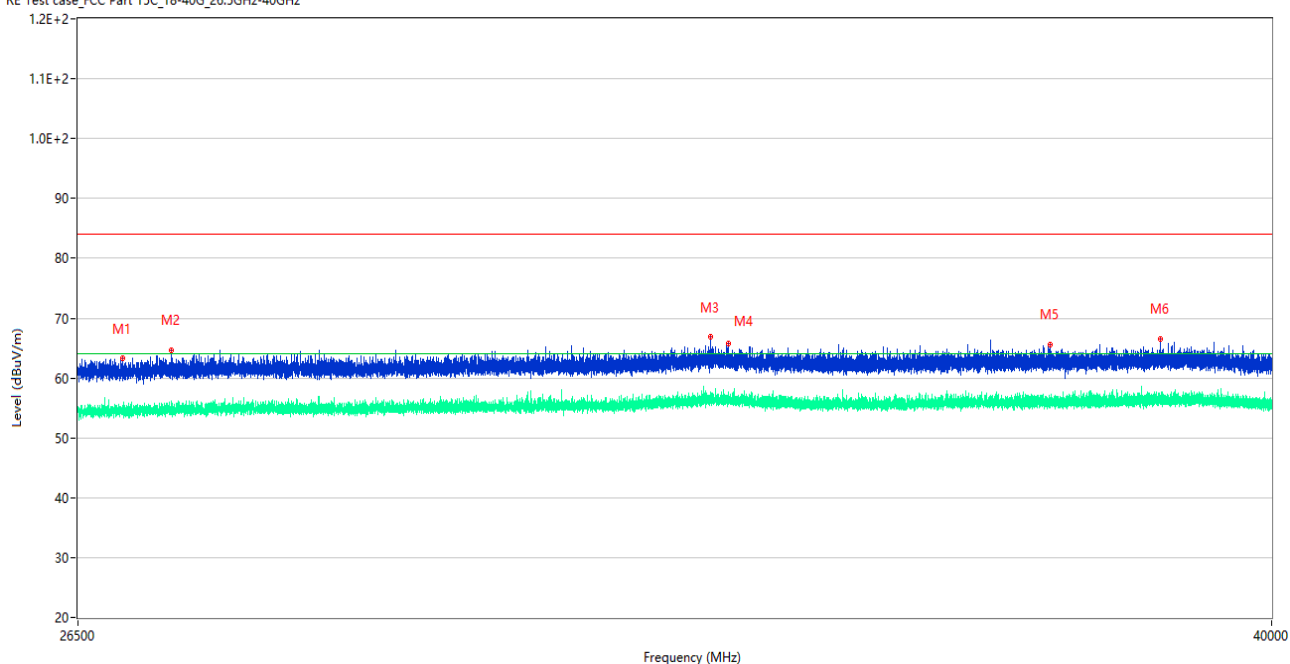
RE Test case_FCC Part 15C_18-40G_18GHz-26.5GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	19121.574	57.31	84.0	26.69	Peak	335.00	300	Vertical	Pass
1**	19121.574	48.35	64.0	15.65	AV	335.00	300	Vertical	Pass
2	20388.925	59.41	84.0	24.59	Peak	312.00	200	Vertical	Pass
2**	20388.925	49.34	64.0	14.66	AV	312.00	200	Vertical	Pass
3	21763.801	59.80	84.0	24.20	Peak	28.00	200	Vertical	Pass
3**	21763.801	50.73	64.0	13.27	AV	28.00	200	Vertical	Pass
4	24041.802	63.42	84.0	20.58	Peak	280.00	400	Vertical	Pass
4**	24041.802	56.27	64.0	7.73	AV	280.00	400	Vertical	Pass
5	25414.552	66.28	84.0	17.72	Peak	352.00	100	Vertical	Pass
5**	25414.552	56.51	64.0	7.49	AV	352.00	100	Vertical	Pass
6	26056.724	64.41	84.0	19.59	Peak	9.00	200	Vertical	Pass
6**	26056.724	55.44	64.0	8.56	AV	9.00	200	Vertical	Pass

26.5 GHz to 40 GHz ANT H Measured at 1 meter

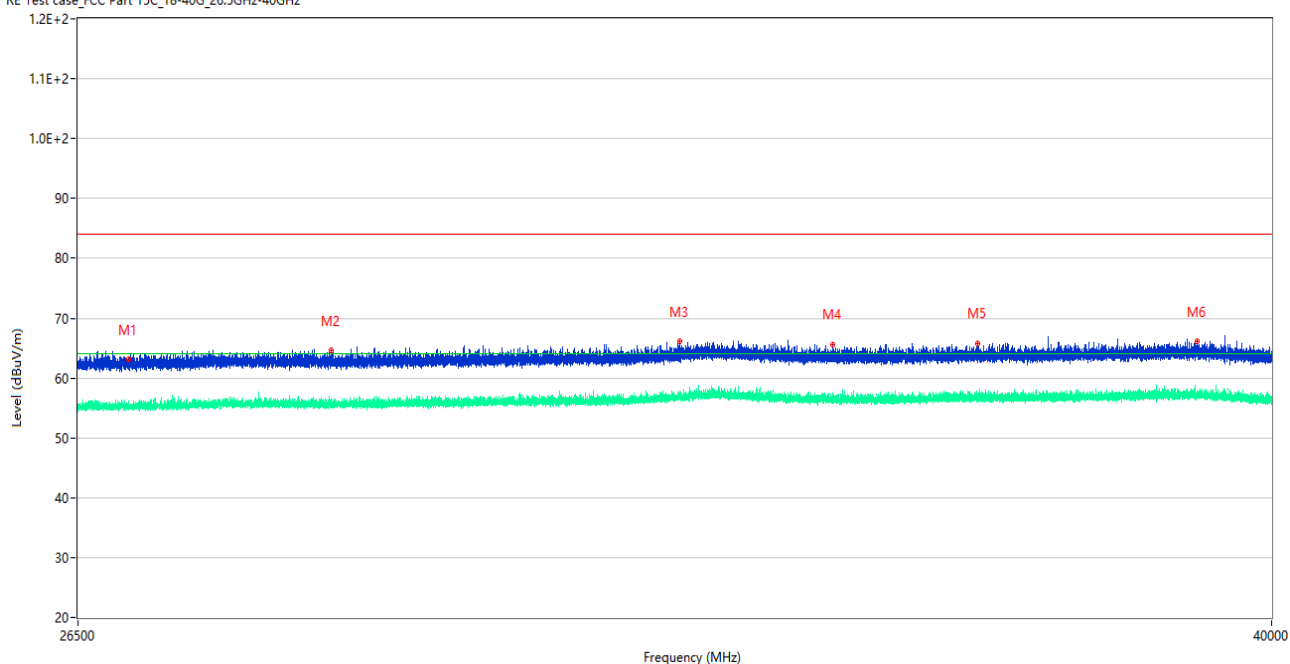
RE Test case_FCC Part 15C_18-40G_26.5GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	26909.051	63.23	84.0	20.77	Peak	260.00	200	Horizontal	Pass
1**	26909.051	55.33	64.0	8.67	AV	260.00	200	Horizontal	Pass
2	27362.650	64.70	84.0	19.30	Peak	14.00	200	Horizontal	Pass
2**	27362.650	54.29	64.0	9.71	AV	14.00	200	Horizontal	Pass
3	32959.074	66.82	84.0	17.18	Peak	86.00	200	Horizontal	Pass
3**	32959.074	55.73	64.0	8.27	AV	86.00	200	Horizontal	Pass
4	33169.676	65.84	84.0	18.16	Peak	9.00	400	Horizontal	Pass
4**	33169.676	56.06	64.0	7.94	AV	9.00	400	Horizontal	Pass
5	37056.324	65.66	84.0	18.34	Peak	216.00	200	Horizontal	Pass
5**	37056.324	55.38	64.0	8.62	AV	216.00	200	Horizontal	Pass
6	38496.772	66.53	84.0	17.47	Peak	291.00	300	Horizontal	Pass
6**	38496.772	57.16	64.0	6.84	AV	291.00	300	Horizontal	Pass

26.5 GHz to 40 GHz ANT V Measured at 1 meter

RE Test case_FCC Part 15C_18-40G_26.5GHz-40GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	26969.801	63.05	84.0	20.95	Peak	75.00	200	Vertical	Pass
1**	26969.801	53.67	64.0	10.33	AV	75.00	200	Vertical	Pass
2	28917.176	64.61	84.0	19.39	Peak	334.00	400	Vertical	Pass
2**	28917.176	55.06	64.0	8.94	AV	334.00	400	Vertical	Pass
3	32612.125	66.07	84.0	17.93	Peak	325.00	200	Vertical	Pass
3**	32612.125	55.03	64.0	8.97	AV	325.00	200	Vertical	Pass
4	34385.351	65.62	84.0	18.38	Peak	4.00	200	Vertical	Pass
4**	34385.351	55.97	64.0	8.03	AV	4.00	200	Vertical	Pass
5	36147.102	65.77	84.0	18.23	Peak	188.00	300	Vertical	Pass
5**	36147.102	55.56	64.0	8.44	AV	188.00	300	Vertical	Pass
6	38983.451	66.09	84.0	17.91	Peak	5.00	400	Vertical	Pass
6**	38983.451	56.22	64.0	7.78	AV	5.00	400	Vertical	Pass

Test Data

Radiated Spurious Emission 40 GHz - 200 GHz				
Frequency	Results (dBm)	Margin (dB)	Limit	Polarization
40 GHz - 60 GHz	-35.625	25.705	90 pW/cm ² at a distance of 3 meters	Vertical
64 GHz - 90 GHz	-29.478	19.558		Vertical
90 GHz - 110 GHz	-37.500	27.580		Vertical
110 GHz - 170 GHz	-32.233	22.313		Vertical
170 GHz - 200 GHz	-26.399	16.479		Vertical

Note 1: 90 pW/cm² 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).
 $E \approx 85.3$ dBuV/m

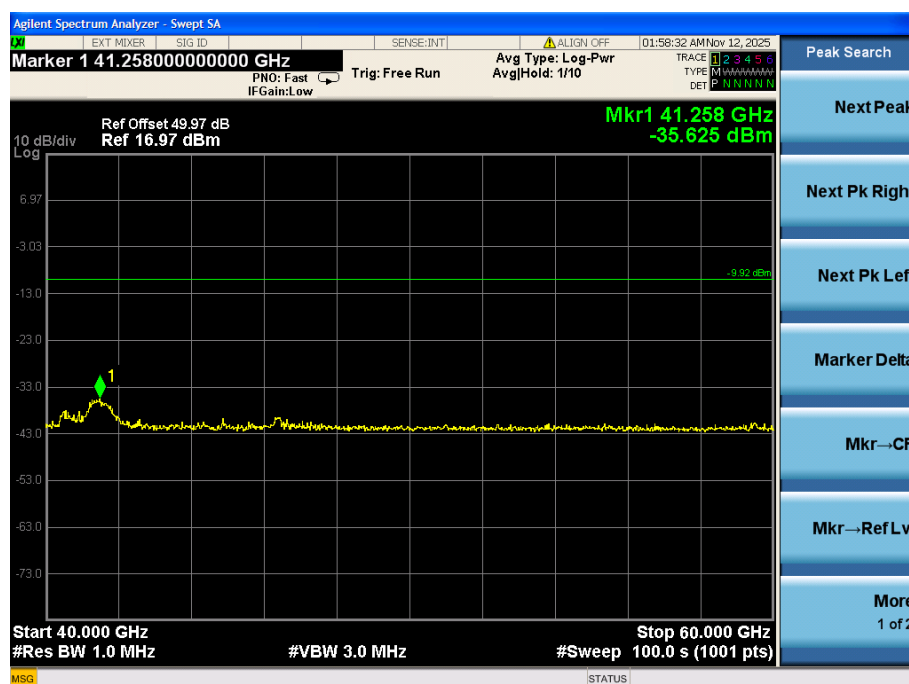
$$P \text{ (dBm)} = E[\text{dBuV/m}] + 20\log(d[\text{m}]) - 104.77$$

$$P \text{ (dBm)} \approx -9.92\text{dBm}$$

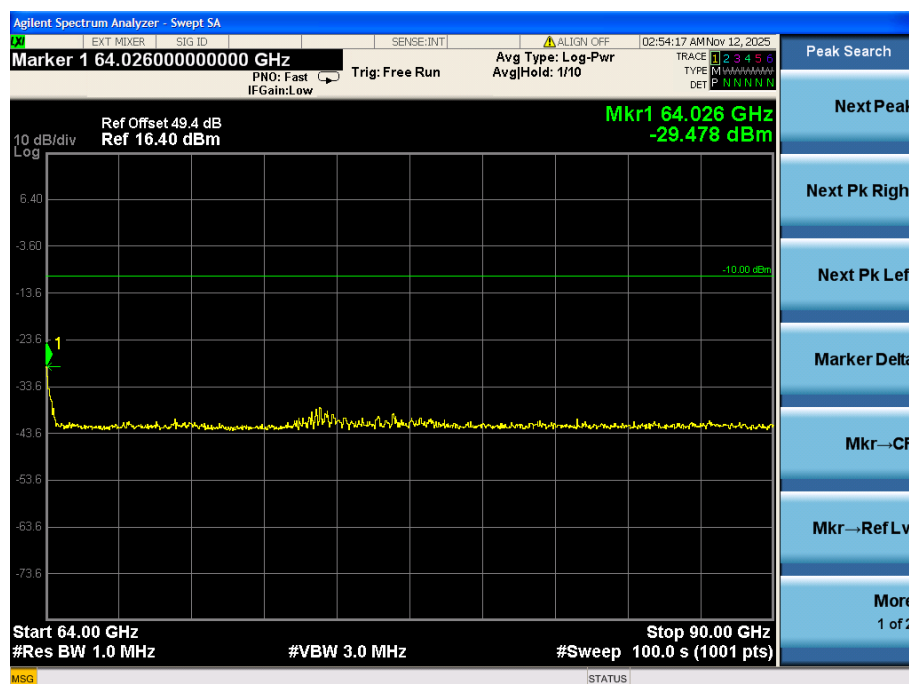
Note 2: The antenna polarity directions above 40GHz have been tested, but only the worst-case scenario is reflected in this report.

Test Plots

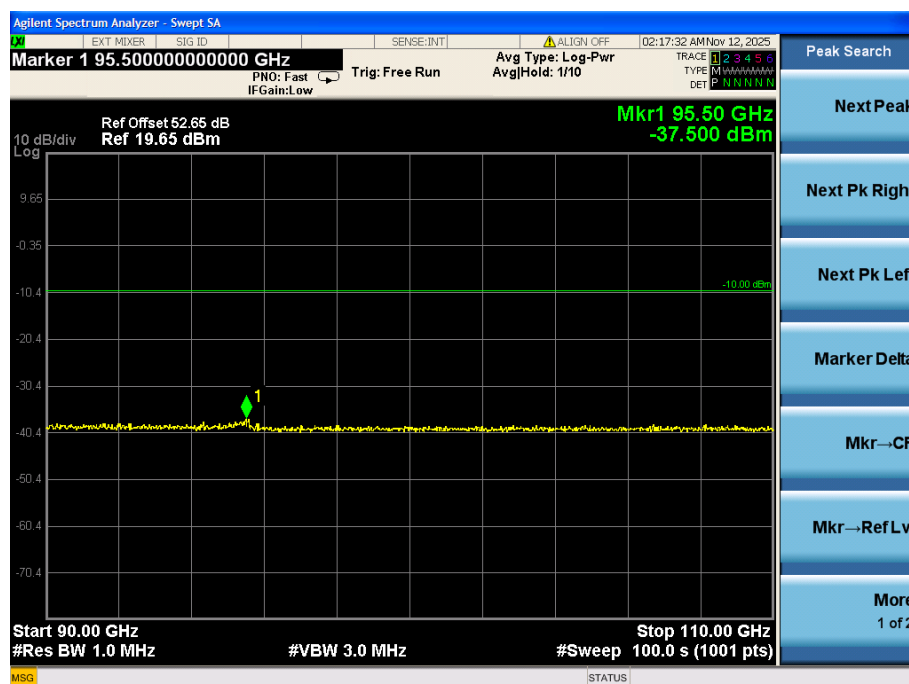
40-60 GHz, Measured at 1 meter



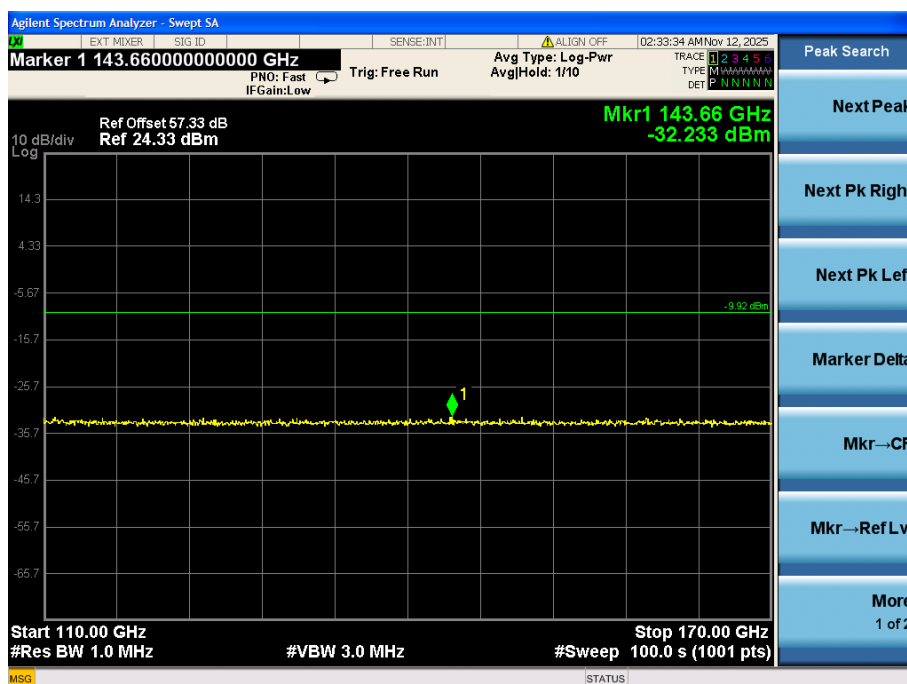
64-90 GHz, Measured at 1 meter



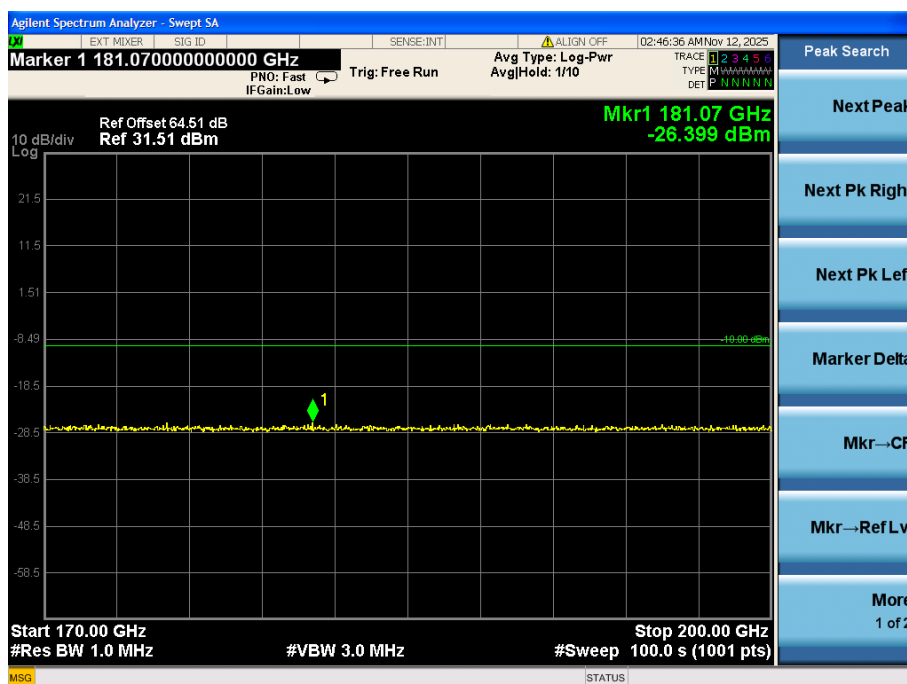
90-110 GHz, Measured at 1 meter



110-170 GHz, Measured at 1 meter



170-200 GHz, Measured at 1 meter



A.4 Frequency stability

Test Data

Environment Temperature (°C)	Voltage (V)	FL (MHz)	FL (MHz)	Limit (GHz)	Test Result
40	3.80	60115.308	63940.308	60-64	Pass
35		60121.333	63943.433		Pass
25		60113.370	63936.470		Pass
20		60113.913	63938.413		Pass
10		60113.395	63940.295		Pass
0		60112.559	63940.559		Pass

Environment Temperature (°C)	Voltage (V)	FL (MHz)	FL (MHz)	Limit (GHz)	Test Result
25	4.18	60117.618	63945.918	60-64	Pass
	3.42	60125.130	63938.730		Pass

A.5 Antenna Requirements

Antenna Description

Antenna usage	Band of Operation (GHz)	Maximum Antenna Gain (dBi)
Integral antenna within the Integrated Circuit package	60-64	5.0

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

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25B0007-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25B0007-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25B0007-AI.PDF”.

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--END OF REPORT--