

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-239-RWD-031

Reception No. : 2308002557

Applicant : Dnet. Co., Ltd

Address : 23, Hosan-ro 2-gil, Dalseogu, Daegu, South Korea

Manufacturer : Dnet. Co., Ltd

Address : 23, Hosan-ro 2-gil, Dalseogu, Daegu, South Korea

Type of Equipment : Microwave Radar Module

FCC ID : 2BCYL-DNS-010CX

Model Name : DNS-010CX

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 23 pages (including this page)

Date of Incoming : August 07, 2023

Date of Issuing : September 25, 2023

SUMMARY

The equipment complies with the requirements of *FCC CFR 47 PART 15 SUBPART C Section 15.245*

This test report contains only the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-239-RWD-031	September 25, 2023	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : Dnet. Co., Ltd
 Address : 23, Hosan-ro 2-gil, Dalseogu, Daegu, South Korea
 Contact Person : Jung ChulHwan / Director
 Telephone No. : +82-53-584-3545
 FCC ID : 2BCYL-DNS-010CX
 Model Name : DNS-010CX
 Brand Name : -
 Serial Number : N/A
 Date : September 25, 2023

DEVICE TYPE	FDS - Part 15 Field Disturbance Sensor
E.U.T. DESCRIPTION	Microwave Radar Module
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.245
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.245 (b)	Field Strength of Emission	Met the Limit / PASS
15.245 (b)(1)	Radiated Emissions above 1 000 MHz	Met the Limit / PASS
15.245 (b)(2)	Measurement distance	Met the Requirement / PASS
15.245 (b)(3)	Emissions Radiated Outside of the Specified Frequency Band	Met the Limit / PASS
15.215	Minimum 20 dB Bandwidth	Met the Limit / PASS
15.209	Radiated Emission Limits, General Requirement	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met the Requirement / PASS

2.2 Related Submittal(s) / Grant(s)

Original submittal only

2.3 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.5 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The Dnet. Co., Ltd, Model DNS-010CX (referred to as the EUT in this report) is an Microwave Radar Module, Product specification information described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	Microwave Radar Module
OPERATING FREQUENCY	10.525 GHz
Field Strength of Fundamental	106.61 dB μ V/m
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	0 dBi

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None.

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Dnet. Co., Ltd	N/A	N/A

5.2 Peripheral equipment

-. None.

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 10.525 GHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis, but the worst data was recorded in this report.

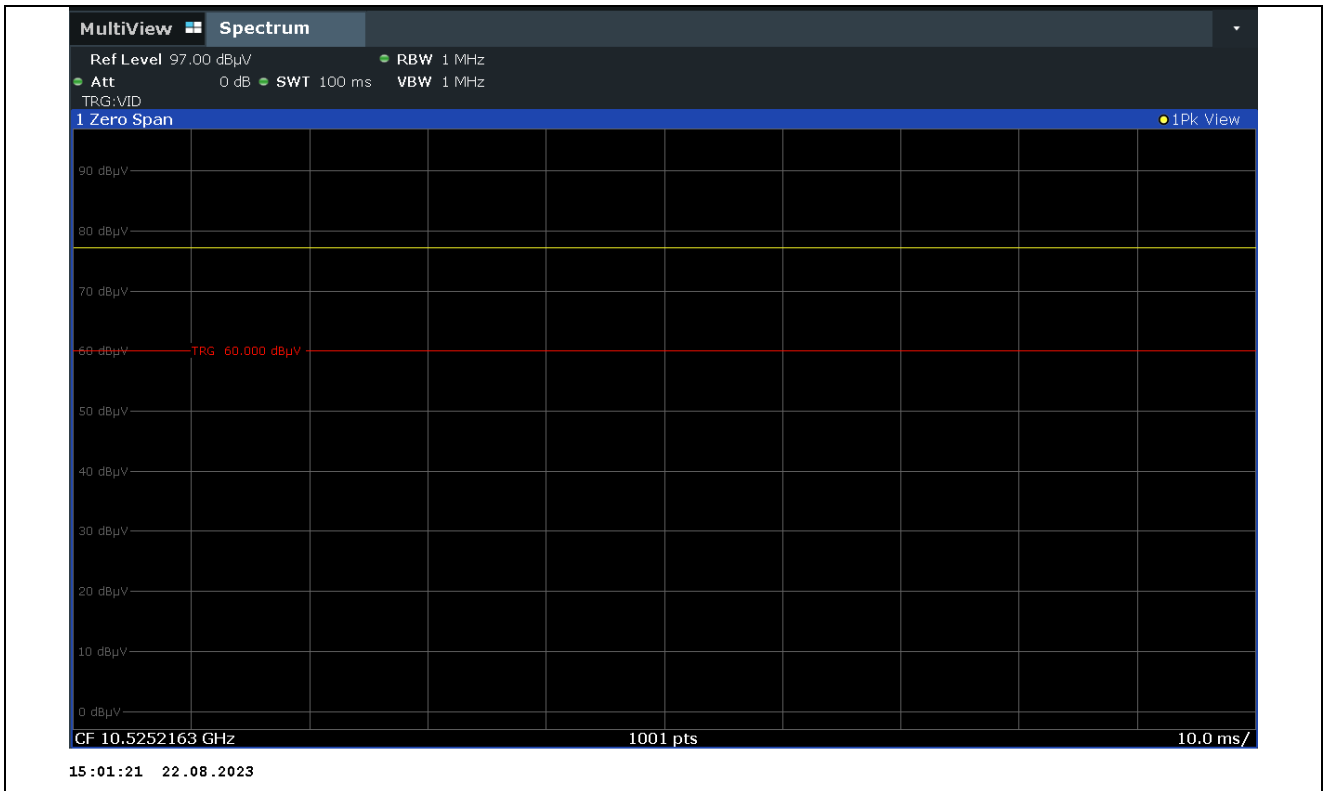
-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
-	-	-	100.00	-

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : 10 * Log(1 / (Duty Cycle / 100))

-. Test Plot



5.4 Configuration of Test System

Line Conducted Test: The EUT was connected to DC power supply and the power of DC power supply was connected to LISN. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions.

Radiated Emission Test : Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. The radiated emissions measurements were performed on the 10 m Semi Anechoic Chamber. For frequencies from 150 kHz to 30 MHz measurements were made of the magnetic H field. The measuring antenna is an electrically screened loop antenna. The frequency spectrum from 30 MHz to 1 000 MHz was scanned and maximum emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

5.5 Antenna Requirement

For intentional device, according to section 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.

Antenna Construction:

The antenna of the EUT is PCB Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

6.2 Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7. MINIMUM 20 dB BANDWIDTH

7.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % R.H.

7.2 Test set-up

20 dB bandwidth measurements were on the 3 m, semi anechoic chamber. The resolution bandwidth is set to 50 kHz, and peak detection was used. The 20 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 20 dB.

7.3 Test Date

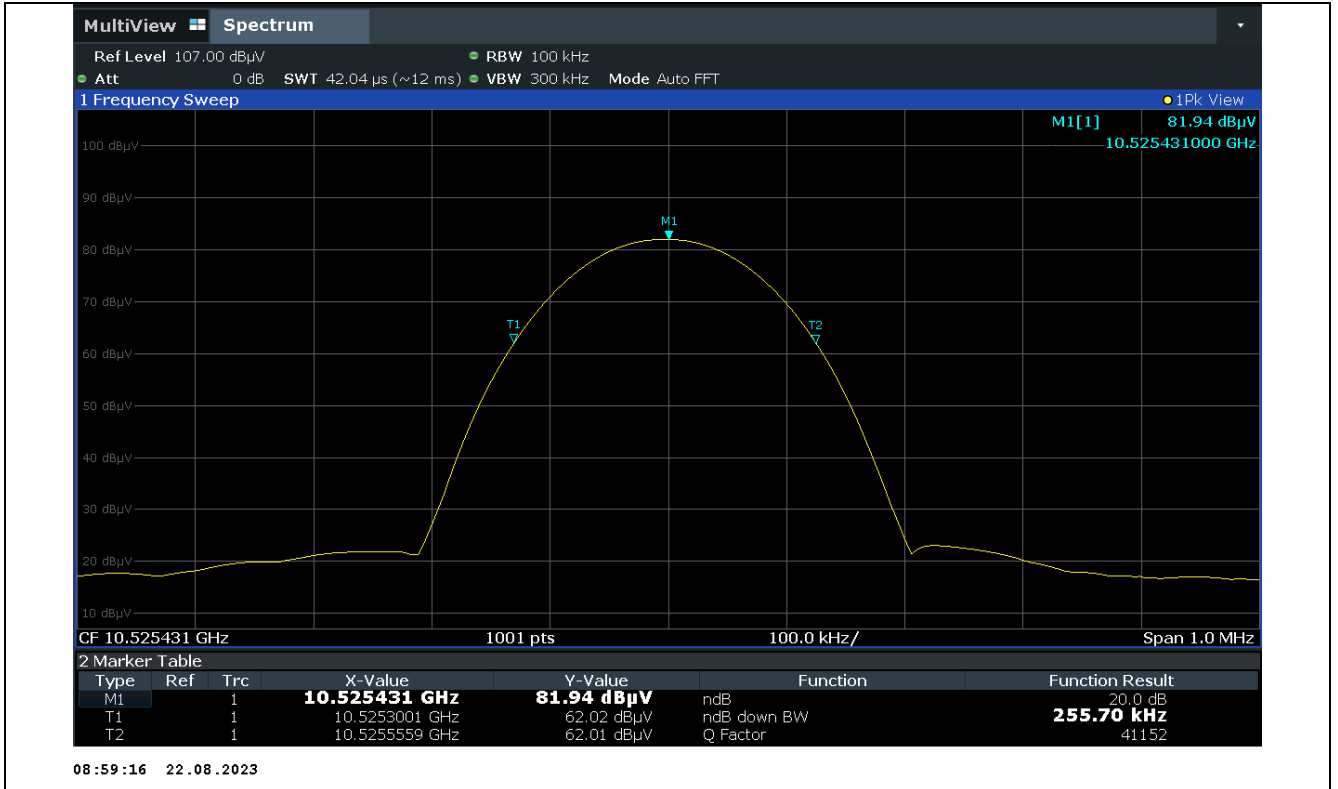
August 21, 2023 ~ August 23, 2023

7.4 Test data

-. Test Result : Pass

Mode	20 dB Bandwidth (kHz)	20 dB Bandwidth (kHz)
CW	10.525	255.70

Remark. Margin = Measured Value - Limit



8. RADIATED EMISSION TEST

8.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % R.H.

8.2 Test set-up

The radiated emissions measurements were on the 3 m, semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from up to 40 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

Test set-up photos are included in appendix I.

8.3 Measurement uncertainty

Radiated emission electric field intensity, 0.15 MHz ~ 30 MHz : ± 2.61 dB

Radiated emission electric field intensity, 30 MHz ~ 300 MHz : ± 4.43 dB

Radiated emission electric field intensity, 300 MHz ~ 1 000 MHz : ± 3.80 dB

Radiated emission electric field intensity, 1 000 MHz ~ 3 000 MHz: ± 4.40 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, $k = 2$.

8.4 Test Date

August 21, 2023 ~ August 23, 2023

8.5 Final Result of Measurement

8.5.1 Field Strength of the Fundamental Frequency

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245(b)

Result : PASSED

EUT : Microwave Radar Module

Operating Condition : TX mode

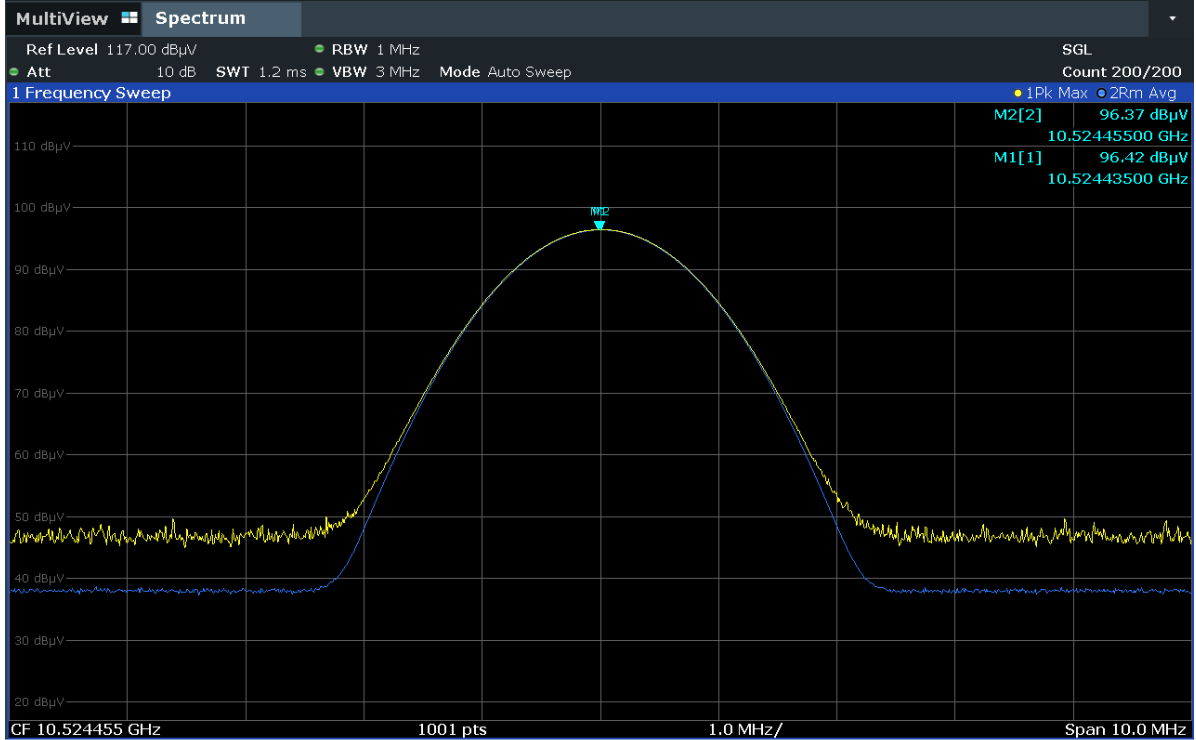
Distance : 3 m

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant Pol.	Ant. Factor (dB)	Cable Loss (dB)	Amp Gain (dB)	Distance Factor (dB)	Total (dBuV/m)	Limits (dBuV/m)	Margin (dB)
10.525	96.42	Peak	H	39.50	8.54	42.10	-	102.36	147.96	45.60
	96.37	Average	H	39.50	8.54	42.10	-	102.31	127.96	25.65
	100.67	Peak	V	39.50	8.54	42.10	-	106.61	147.96	41.35
	100.63	Average	V	39.50	8.54	42.10	-	106.57	127.96	21.39

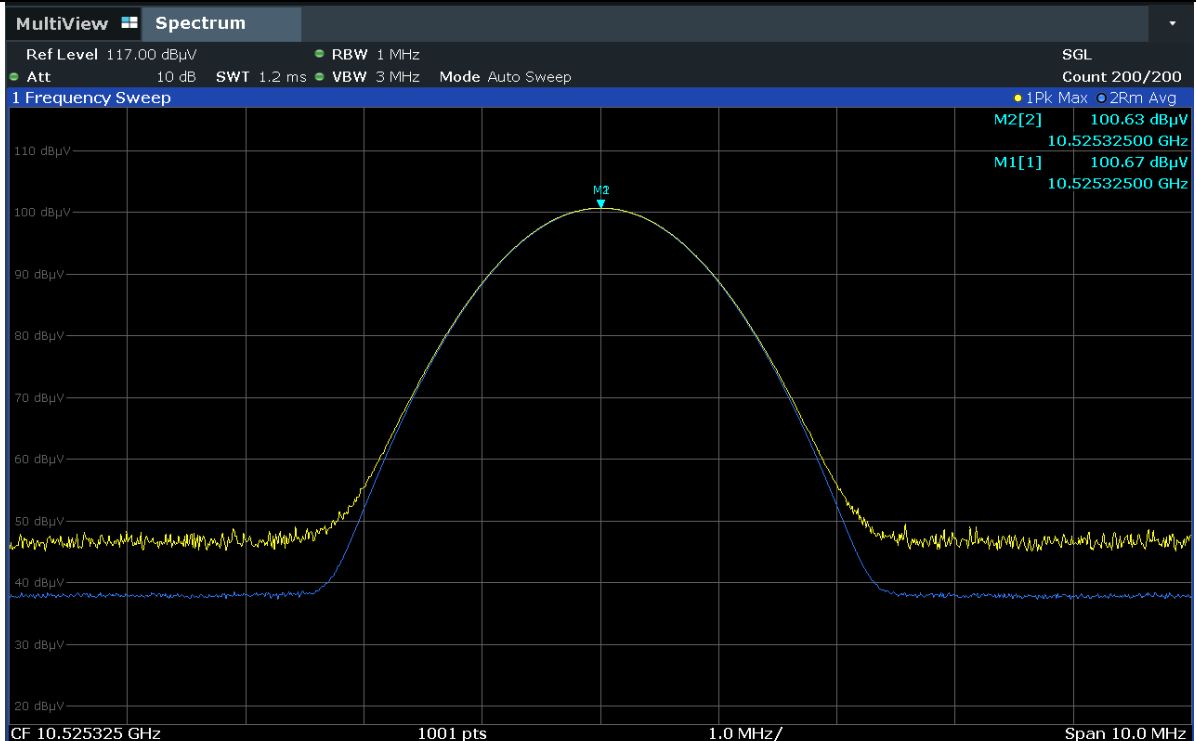
*Remark: To get a maximum emission level from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes, but the worst plane data were recorded in the report.

$$\text{Margin (dB)} = \text{Limit (dBuV/m)} - \text{Total (dBuV/m)}$$

$$\text{Total} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain}$$



H



V

8.5.2 Emissions Radiated Outside of the Specified Frequency Bands

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245(b)

Result : PASSED

EUT : Microwave Radar Module

Operating Condition : TX mode

Distance : 3 m

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant Pol.	Ant. Factor (dB)	Cable Loss (dB)	Amp Gain (dB)	Distance Factor (dB)	Total (dBuV/m)	Limits (dBuV/m)	Margin (dB)
21.04	84.33	Peak	H	38.20	12.80	50.50	-	84.83	107.96	23.13
	84.10	Average	H	38.20	12.80	50.50	-	84.60	87.96	3.36
	79.97	Peak	V	38.20	12.80	50.50	-	80.47	107.96	27.49
	79.58	Average	V	38.20	12.80	50.50	-	80.08	87.96	7.88
31.57	70.74	Peak	H	40.30	16.50	50.40	-	77.14	107.96	30.82
	69.36	Average	H	40.30	16.50	50.40	-	75.76	87.96	12.20
	68.23	Peak	V	40.30	16.50	50.40	-	74.63	107.96	33.33
	66.53	Average	V	40.30	16.50	50.40	-	72.93	87.96	15.03

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band

$$\text{Margin (dB)} = \text{Limit (dBuV/m)} - \text{Total (dBuV/m)}$$

$$\text{Total} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain}$$

Distance : 0.5 m

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant Pol.	Ant. Factor (dB)	Cable Loss (dB)	Conversion Loss (dB)	Distance Factor (dB)	Total (dBuV/m)	Limits (dBuV/m)	Margin (dB)
42.08	26.13	Peak	H	40.40	0.80	27.70	15.56	79.47	107.96	28.49
	16.46	Average	H	40.40	0.80	27.70	15.56	69.80	87.96	18.16
	26.72	Peak	V	40.40	0.80	27.70	15.56	80.06	107.96	27.90
	16.47	Average	V	40.40	0.80	27.70	15.56	69.81	87.96	18.15

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band

$$\text{Margin (dB)} = \text{Limit (dBuV/m)} - \text{Total (dBuV/m)}$$

$$\text{Total} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Conversion Loss} - \text{Distance Factor}$$

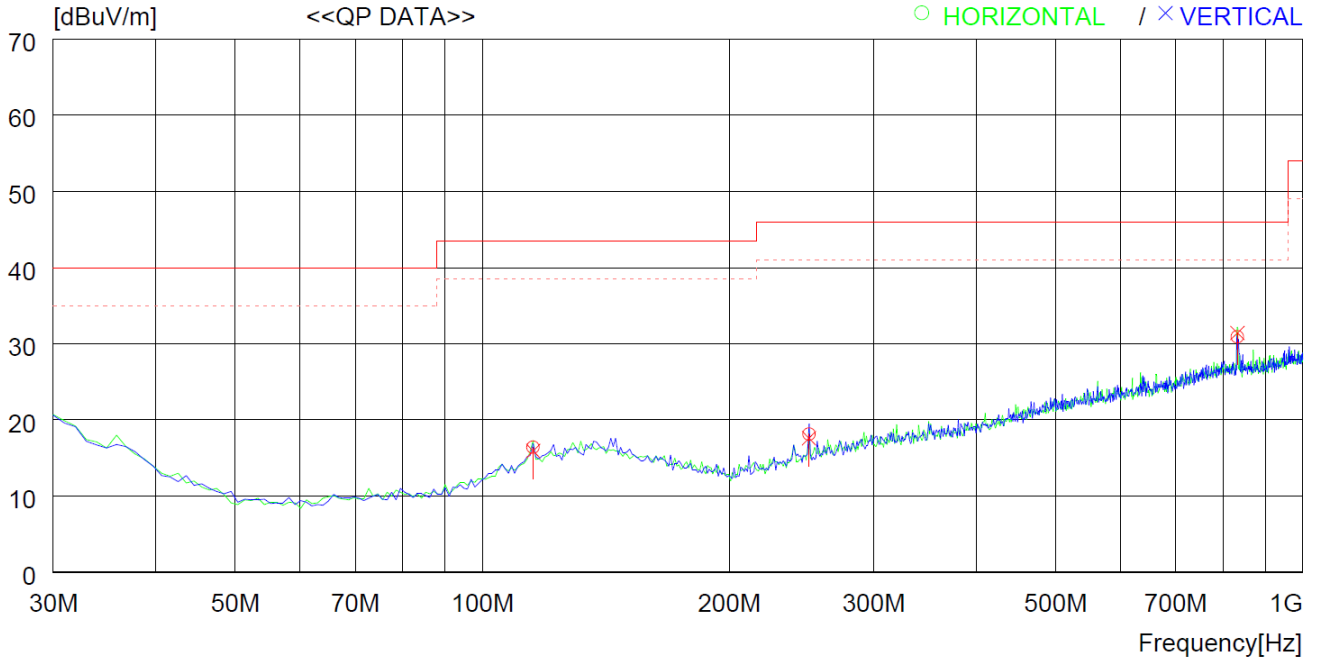
8.5.3 Test Data for Frequency range: 30 MHz ~ 1 000 MHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245 (b)

Result : PASSED

EUT : Microwave Radar Module

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	115.360	29.0	17.8	1.6	32.0	16.4	43.5	27.1	400	0
2	250.190	30.1	17.6	2.4	32.0	18.1	46.0	27.9	200	104
3	832.181	31.6	27.2	4.4	32.3	30.9	46.0	15.1	300	359
----- Vertical -----										
4	115.360	28.5	17.8	1.6	32.0	15.9	43.5	27.6	200	101
5	250.190	29.6	17.6	2.4	32.0	17.6	46.0	28.4	100	55
6	832.181	32.1	27.2	4.4	32.3	31.4	46.0	14.6	300	70

8.5.4 Test Data for Below 30 MHz

Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
 Frequency range : 9 kHz ~ 30 MHz
 Measurement distance : 3 m
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245 (b)
 Result : PASSED

Frequency (MHz)	Reading (dB μ V)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
It was not observed any emissions from the EUT.									

8.5.5 Test Data above 1 GHz except for harmonic

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
 1 MHz and RMS Detector for Average Mode
 - Video bandwidth : 3 MHz for Peak and Average Mode
 - Frequency range : 1 GHz ~ 40 GHz
 - Measurement distance : 3 m
 - Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245 (b)
 - Result : PASSED

Frequency (MHz)	Reading (dB μ V)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
It was not observed any emissions from the EUT.									

8.5.6 Test Data above 40 GHz except for harmonic

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
 1 MHz and RMS Detector for Average Mode
 - Video bandwidth : 3 MHz for Peak and Average Mode
 - Frequency range : 40 GHz ~ 100 GHz
 - Measurement distance : 0.5 m
 - Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245 (b)
 - Result : PASSED

Frequency (MHz)	Reading (dB μ V)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
It was not observed any emissions from the EUT.									

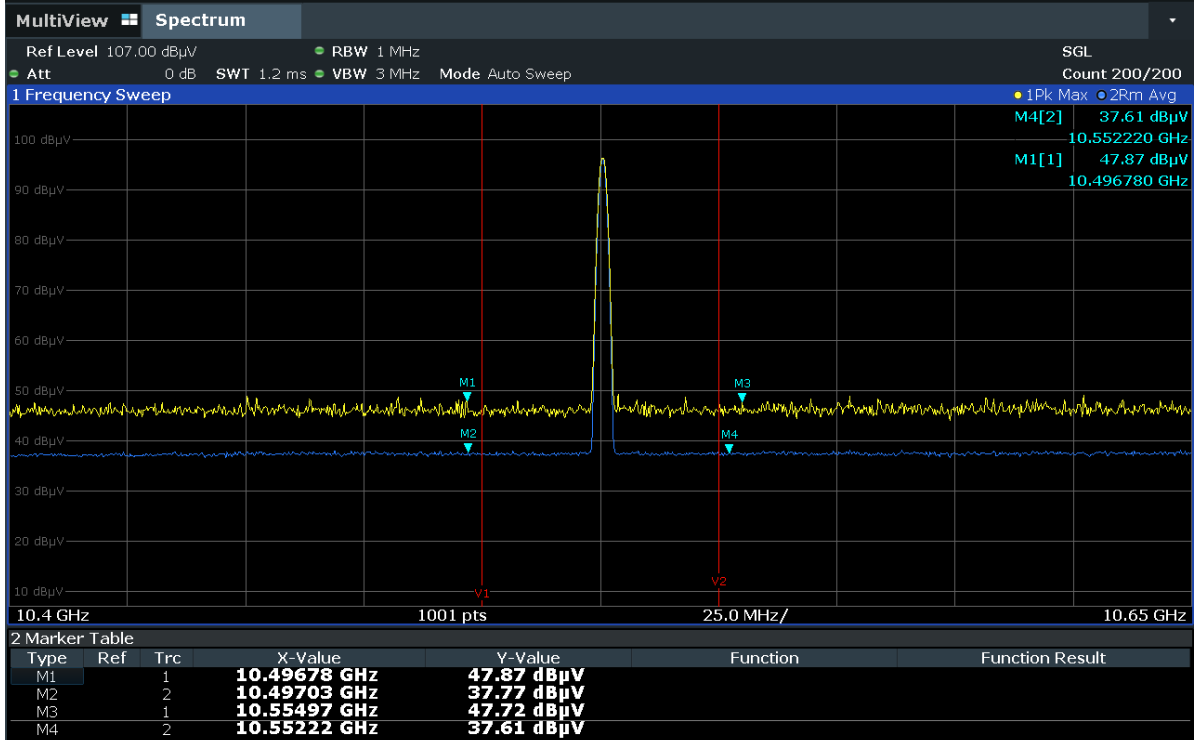
8.5.7 Band Edge

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.245 (b)
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant Pol.	Ant. Factor (dB)	Cable Loss (dB)	Amp Gain (dB)	Distance Factor (dB)	Total (dBuV/m)	Limits (dBuV/m)	Margin (dB)
10.496 7	47.87	Peak	H	39.50	8.54	42.10	-	53.81	74.00	20.19
10.497 0	37.77	Average	H	39.50	8.54	42.10	-	43.71	54.00	10.29
10.499 2	47.21	Peak	V	39.50	8.54	42.10	-	53.15	74.00	20.85
10.496 7	37.74	Average	V	39.50	8.54	42.10	-	43.68	54.00	10.32
10.554 9	47.72	Peak	H	39.50	8.54	42.10	-	53.66	74.00	20.34
10.552 2	37.61	Average	H	39.50	8.54	42.10	-	43.55	54.00	10.45
10.550 7	47.39	Peak	V	39.50	8.54	42.10	-	53.33	74.00	20.67
10.550 7	37.57	Average	V	39.50	8.54	42.10	-	43.51	54.00	10.49

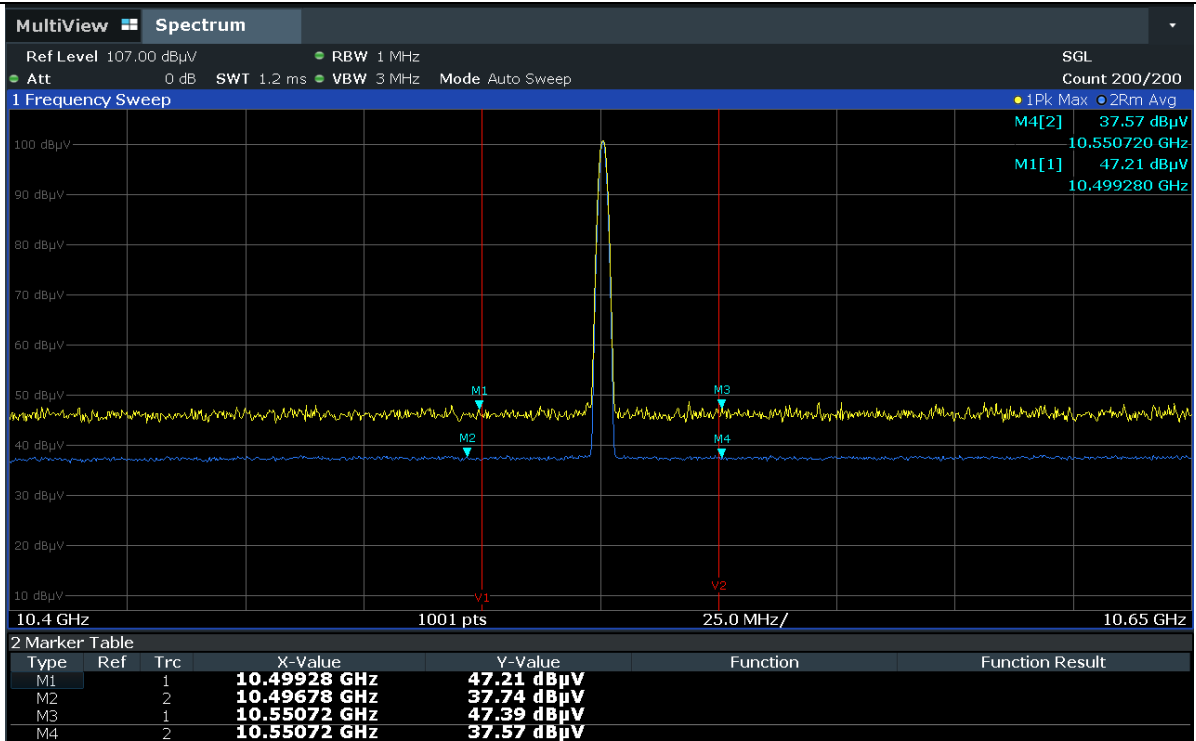
Remark. Margin (dB) = Limit (dBuV/m) – Total (dBuV/m)

$$\text{Total} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain}$$



15:00:22 21.08.2023

H



14:59:10 21.08.2023

V

9. CONDUCTED EMISSION TEST

9.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % R.H.

9.2 Test set-up

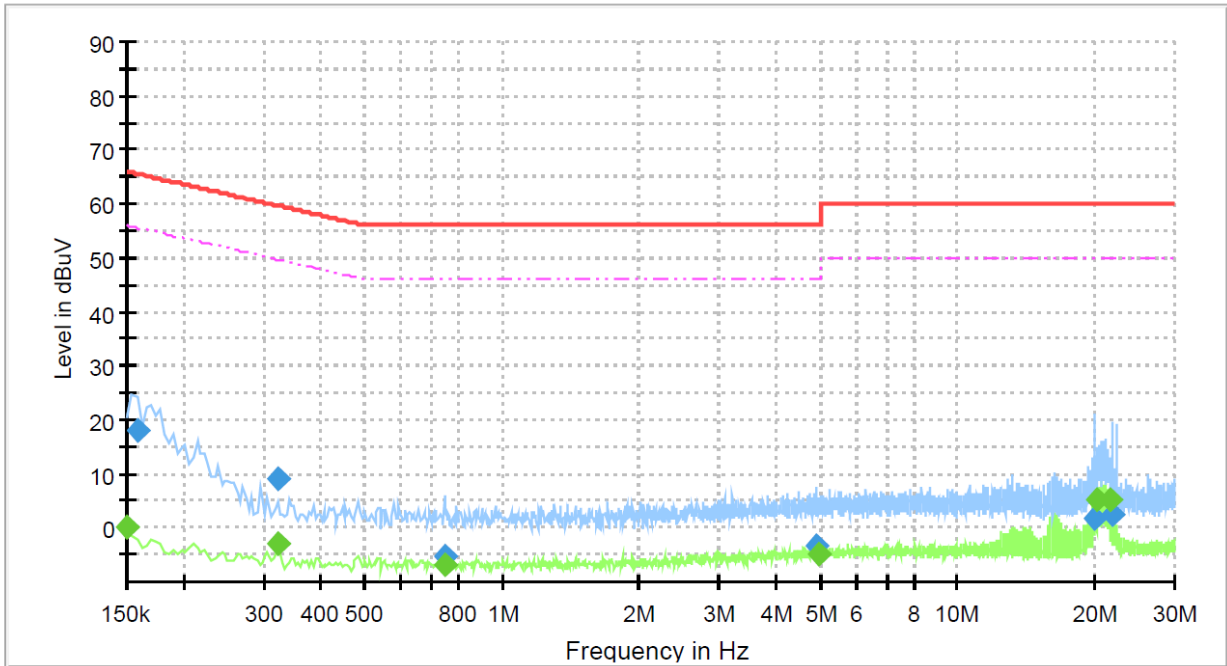
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

9.3 Test Date

August 21, 2023 ~ August 23, 2023

9.4 Test data

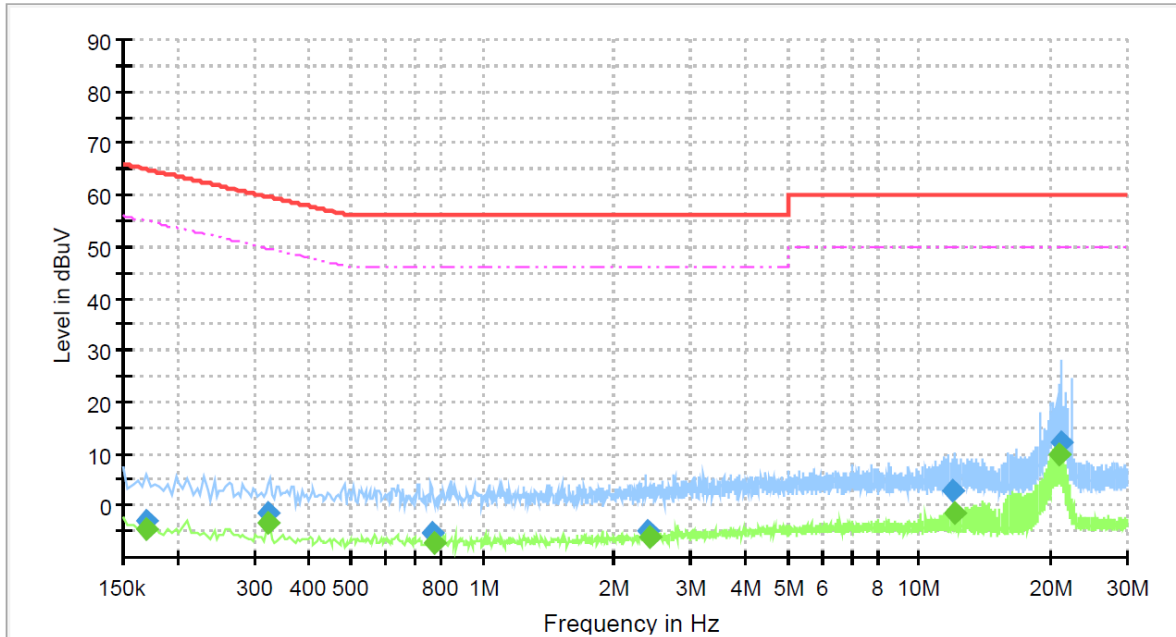
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150	---	0.21	56.00	55.79	5000.0	9.0	L1	0.12
0.158	18.15	---	65.57	47.41	5000.0	9.0	L1	0.12
0.322	---	-3.18	49.67	52.85	5000.0	9.0	L1	0.11
0.322	9.24	---	59.67	50.43	5000.0	9.0	L1	0.11
0.749	---	-6.98	46.00	52.98	5000.0	9.0	L1	0.14
0.753	-5.38	---	56.00	61.38	5000.0	9.0	L1	0.14
4.877	-3.44	---	56.00	59.44	5000.0	9.0	L1	0.30
4.980	---	-4.76	46.00	50.76	5000.0	9.0	L1	0.30
20.006	1.69	---	60.00	58.31	5000.0	9.0	L1	1.00
20.162	---	5.21	50.00	44.79	5000.0	9.0	L1	1.00
21.553	---	5.19	50.00	44.81	5000.0	9.0	L1	1.05
21.784	2.39	---	60.00	57.61	5000.0	9.0	L1	1.05

-. Tested Line : NEUTRAL LINE



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170	---	-4.47	54.99	59.45	5000.0	9.0	N	0.15
0.170	-2.92	---	64.99	67.91	5000.0	9.0	N	0.15
0.321	-1.61	---	59.67	61.28	5000.0	9.0	N	0.11
0.322	---	-3.28	49.67	52.94	5000.0	9.0	N	0.11
0.766	-5.52	---	56.00	61.52	5000.0	9.0	N	0.14
0.778	---	-7.08	46.00	53.08	5000.0	9.0	N	0.14
2.378	-4.95	---	56.00	60.95	5000.0	9.0	N	0.21
2.422	---	-6.24	46.00	52.24	5000.0	9.0	N	0.21
11.978	2.78	---	60.00	57.22	5000.0	9.0	N	0.73
12.050	---	-1.30	50.00	51.30	5000.0	9.0	N	0.73
20.828	---	9.97	50.00	40.03	5000.0	9.0	N	1.03
21.186	12.35	---	60.00	47.65	5000.0	9.0	N	1.04

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

10. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSW43	Rohde & Schwarz	Signal & Spectrum Analyzer	104544	Jul. 14, 2023 (1Y)
ESW44	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 07, 2023 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 13, 2022 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 11, 2023 (1Y)
ELNA40-45	EXYNOD	Pre-Amplifier	25339-27648	Apr. 05, 2023 (1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2022 (2Y)
HLP-2008	TDK	Hybrid Antenna	131316	Mar. 07, 2022 (2Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 21, 2022 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170179	Jan. 25, 2023 (1Y)
M19RH	OML, Inc.	Millimeter Wave Horn Antenna	180912-1	Jul. 04, 2023 (1Y)
M12RH	OML, Inc.	Millimeter Wave Horn Antenna	180912-1	Jun. 28, 2023 (1Y)
M08RH	OML, Inc.	Millimeter Wave Horn Antenna	180912-1	Jun. 28, 2023 (1Y)
M19HWD	OML, Inc.	Harmonic Mixer	180912-1	Jun. 30, 2023 (1Y)
M12HWD	OML, Inc.	Harmonic Mixer	180912-1	Jun. 30, 2023 (1Y)
M08HWD	OML, Inc.	Harmonic Mixer	180912-1	Jun. 30, 2023 (1Y)
ESR 3	Rohde & Schwarz	EMI Test Receiver	102602	Mar. 15, 2023 (1Y)
NSLK8126	Schwarzbeck	AMN	8126-404	Mar. 15, 2023 (1Y)
ESH3Z2	Rohde & Schwarz	PULSE LIMITER	357.8810.52	Mar. 14, 2023 (1Y)
DT2000-2t	Innco System	Turn Table	N/A	N/A
MA-4640-XPET	Innco System	Antenna Master	MA4640/652/43100318/P	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A