

TEST REPORT

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, 17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2025-03166
Page (1) / (21) Pages

1. Applicant

- Name : MonstaTek llc
- Address : 99 SOUTH ALMADEN BLVD 600 San Jose US 95113 United States Of America
(Excluding The States Of Alaska)
- Date of Receipt : 2025-10-17

2. Manufacturer

- Name : WILLTRONICS CO.,LTD
- Address : 26L, 601B, Banwolkongdan, 5 Neunggil-ro 115beon-gil, Danwon-gu, Ansan-si,
Gyeonggi-do, 15420, Republic of Korea

3. Use of Report : For FCC Certification, For ISED Certification

4. Test Sample / Model : MonstaTek M1 / M1

5. Date of Test : 2025-11-03 to 2025-11-12

6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.225

RSS-Gen Issue 5, RSS-210 Issue 11

7. Testing Environment : refer to 6 page

8. Test Results : Compliance

9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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Approval	Tested by  Su-Jun Hwang: (Signature)	Technical Manager  Ji-Hye, Kim: (Signature)
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2025-11-13

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Report No.:
CTK-2025-03166
Page (2) / (21) Pages

REPORT REVISION HISTORY

Date	Revision	Page No
2025-11-13	Issued (CTK-2025-03166)	All

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Report No.:
CTK-2025-03166
Page (3) / (21) Pages

CONTENTS

1. General Product Description	4
1.1 Applicant Information	4
1.2 Product Information	4
1.3 Antenna Information	4
1.4 Model Differences	4
2. Accreditations	5
2.1 Laboratory Accreditations and Listings	5
2.2 Calibration Details of Equipment Used for Measurement	5
3. Test Specifications	6
3.1 Standards	6
3.2 Testing Environment	6
3.3 Mode of operation during the test	7
3.4 Peripheral Devices	7
3.5 Measurement Uncertainty	7
3.6 Test Software	7
4. Technical Characteristic Test	8
4.1 Emission Bandwidth	8
4.2 Field strength emissions	10
4.3 Frequency Stability	17
4.4 AC Conducted Emissions	19
APPENDIX A – Test Equipment Used For Tests	21

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Report No.:

CTK-2025-03166

Page (4) / (21) Pages

1. General Product Description

1.1 Applicant Information

Company	MonstaTek llc
Contact Point	99 SOUTH ALMADEN BLVD 600 San Jose US 95113 United States Of America (Excluding The States Of Alaska)
Contact Person	Name : Ken Wang E-mail : info@monstatek.com Tel : +1-650-713-1559

1.2 Product Information

FCC ID	2BSWU-M1
IC	34778-M1
Product Description	MonstaTek M1
Model name(HVIN)	M1
Variant Model name	-
FVIN	1.0.0.0
Operating Frequency Range	13.56 MHz
RF Output Power	61.8 dBuV/m @ 3 m
Antenna Type	PCB antenna(Loop Antenna)
Power Source	DC 3.7 V(Lithium Battery)

1.3 Antenna Information

☒	Integral antenna (antenna permanently attached)
☐	Temporary RF connector provided
☒	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
☐	External antenna (dedicated antennas)

1.4 Model Differences

Not applicable

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Report No.:

CTK-2025-03166

Page (5) / (21) Pages

2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

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Report No.:

CTK-2025-03166

Page (6) / (21) Pages

3. Test Specifications

3.1 Standards

FCC Part Section(s)	RSS Section(s)	Requirement(s)	Status (Note 1)	Report Clause
15.203	RSS-Gen 6.8	Antenna Requirement	C	1.3
15.215(c)	RSS-Gen 6.7	Emission Bandwidth	C	4.1
15.225 (a)(b)(c)(d)	RSS-210 Annex B.6 (a)	Field strength emissions	C	4.2
15.225(e)	RSS-210 Annex B.6 (b)	Frequency tolerance	C	4.3
15.207	RSS-Gen 8.8	AC Power line Conducted Emissions	C	4.4
<u>Note 1</u> : C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<u>Note 2</u> : The data in this test report are traceable to the national or international standards.				
<u>Note 3</u> : The sample was tested according to the following specification: ANSI C63.10-2020.				

3.2 Testing Environment

Test Item		Test Date	Temperature (± 1 °C)	Relative Humidity (± 3 % R.H.)
Bandwidth		2025-11-11	21	40
Transmitter emission (Radiated)	1) 9 kHz to 30 MHz	2024-11-03	22	58
	2) 30 MHz to 1 GHz	2024-11-03	22	58
Frequency tolerance		2025-11-11 ~ 2025-11-12	21 ~ 22	40 ~ 41
AC Conducted Emission		2025-11-04	24	59

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Report No.:

CTK-2025-03166

Page (7) / (21) Pages

3.3 Mode of operation during the test

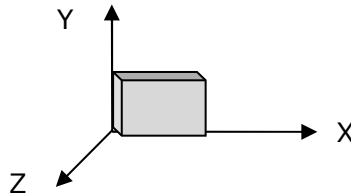
The EUT is operated in a manner representative of the typical of the equipments.

During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests.

Test Frequency

Operating Frequency
13.56 MHz

The Worst Case Measurement Configuration

Tests Item	Transmitter Radiated Emissions, Emission Bandwidth
Condition	Radiated measurement
User Position	☐ EUT will be placed in fixed position. ☐ EUT will be placed in mobile position and operating multiple positions. ☒ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.
Operating Mode	DC 3.7 V(Lithium Battery)
EUT faces identified relative to view from receiving antenna	

3.4 Peripheral Devices

Not applicable

3.5 Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.

Coverage factor $k = 2$, Confidence levels of 95 %

Test Item	Uncertainty
Occupied Bandwidth	0.1 MHz (C.L. : Approx. 95%, $k = 2$)
Radiated emissions	4.11 dB(C.L. : Approx. 95%, $k = 2$)
Frequency tolerance	10 Hz(C.L. : Approx. 95%, $k = 2$)
Line Conducted emissions	2.06 dB(C.L. : Approx. 95%, $k = 2$)

3.6 Test Software

Automation program

Conducted Test	-
Radiated Test	ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.00

Test program

-

4. Technical Characteristic Test

4.1 Emission Bandwidth

Requirement

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.

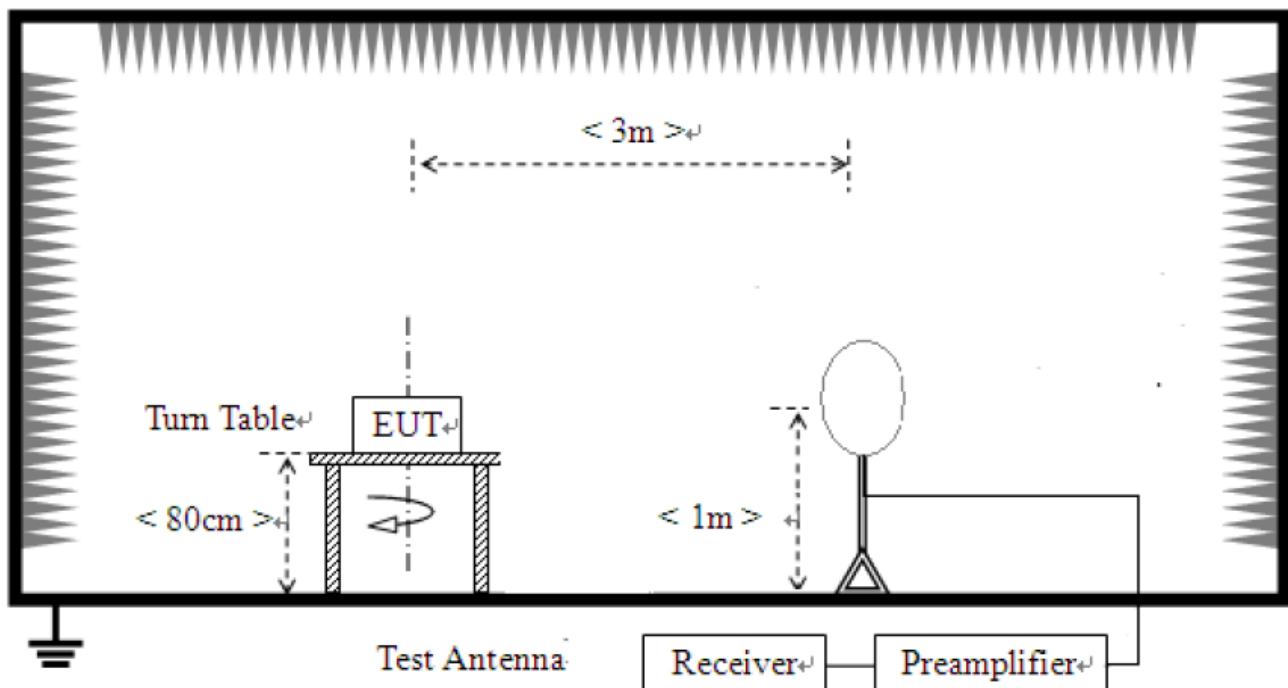
The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedures

For the emission bandwidth refer ANSI C63.10-2020, clause 6.9(Occupied bandwidth).

Test Setup



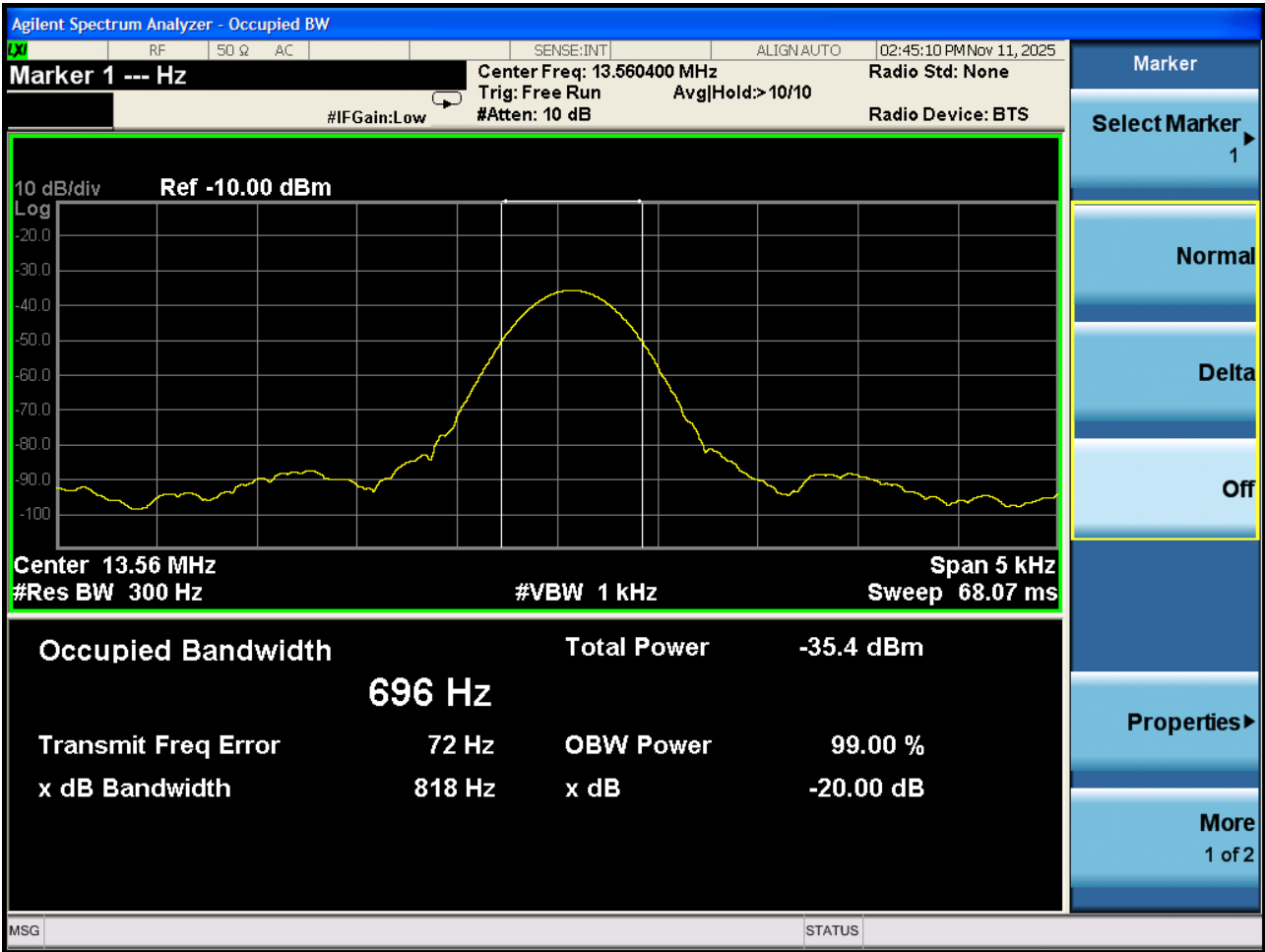


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Report No.:
CTK-2025-03166
Page (9) / (21) Pages

Test results

Emission Bandwidth	Result	Limit
20dB Bandwidth	818 Hz	N/A
99% Bandwidth	696 Hz	N/A



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Report No.:

CTK-2025-03166

Page (10) / (21) Pages

4.2 Field strength emissions

Requirement

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.553-13.567	15,848	84.0	124.0

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.410-13.553	334	50.5	90.5
13.567-13.710	334	50.5	90.5

- © Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Frequency(MHz)	Field Strength uV/m@30m	Field Strength dBuV/m@30m	Field Strength dBuV/m@3m
13.110-13.410	106	40.5	80.5
13.710-14.010	106	40.5	80.5

- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209(RSS-GEN).

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Report No.:

CTK-2025-03166

Page (11) / (21) Pages

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency(MHz)	Field Strength uV/m	Field Strength dBuV/m	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	48.5 – 13.8	300
0.490-1.705	24000/F(kHz)	33.8 – 23	30
1.705-30	30	29.5	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note : 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.

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Report No.:

CTK-2025-03166

Page (12) / (21) Pages

Test Location

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)

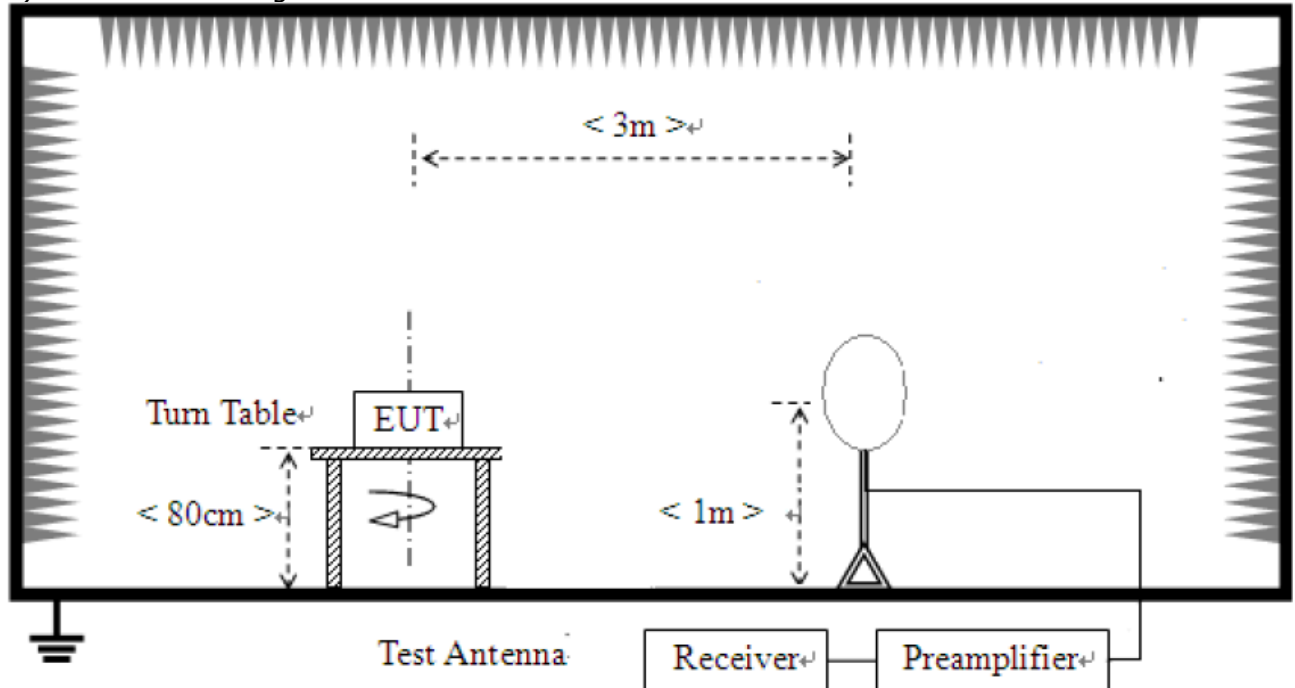
Test Procedures

Test Method	
☒	Refer as ANSI C63.10-2020, clause 6.4(Radiated emissions from unlicensed wireless devices below 30 MHz).
☒	Radiated emission tests shall be performed in the frequency range of 9 kHz to 30 MHz, using a calibrated loop antenna. When perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
☒	The results shall be by using the square of an inverse linear distance extrapolation factor(40 dB/decade).
☒	Refer as ANSI C63.10-2020, clause 6.5(Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz).
☒	In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) is used. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.
☒	Emissions more than 20 dB below the limit do not need to be reported.

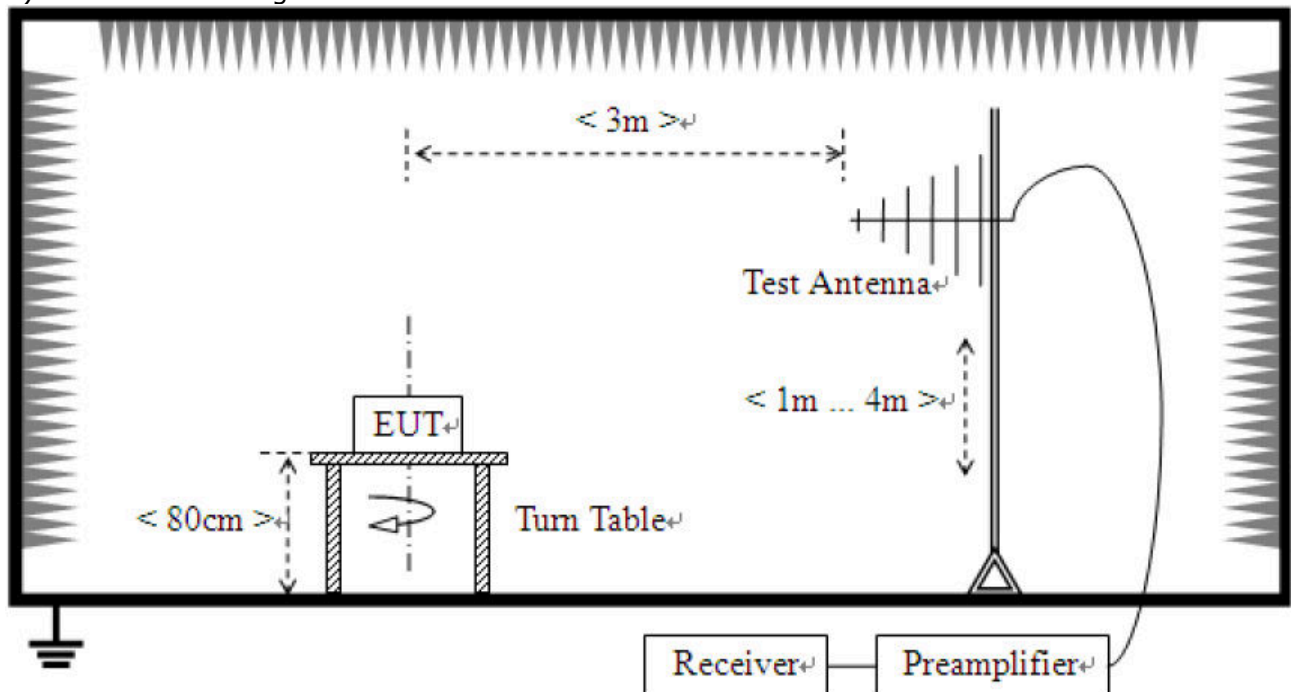
Measuring instrument Settings	
Frequency Range	9 kHz – 1 000 MHz
RBW	200 Hz (9 kHz – 150 kHz) 9 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1 000 MHz)
VBW	≥ RBW
Sweep time	auto couple
Detector function	CISPR quasi-peak(below 1 000 MHz)

Test Setup

- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz





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Report No.:

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Page (14) / (21) Pages

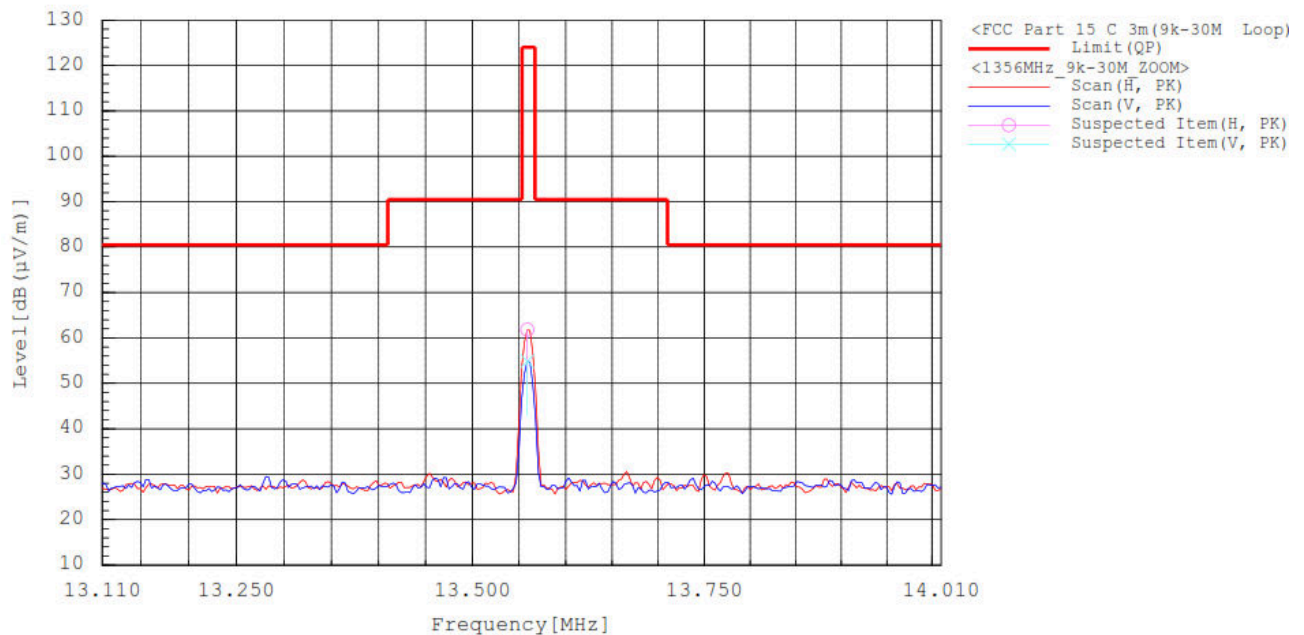
Test results

1) Radiated emissions within the band 13.110-14.010 MHz

The requirements are:

☒ Complies

Project no. : 05405
Test Mode : 13.56
Tester : SJH
Date : 3 November, 2025 19:43



Spectrum Selection

No.	Frequency [MHz]	Pol	Reading PK [dB (μV)]	c.f [dB (1/m)]	Result PK [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]
1	13.559	H	35.5	26.3	61.8	124.0	62.2	99.9	201.8
2	13.559	V	28.6	26.3	54.9	124.0	69.1	99.9	276.2

Remark :

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. The test result in peak detector is less than quasi-peak limit.



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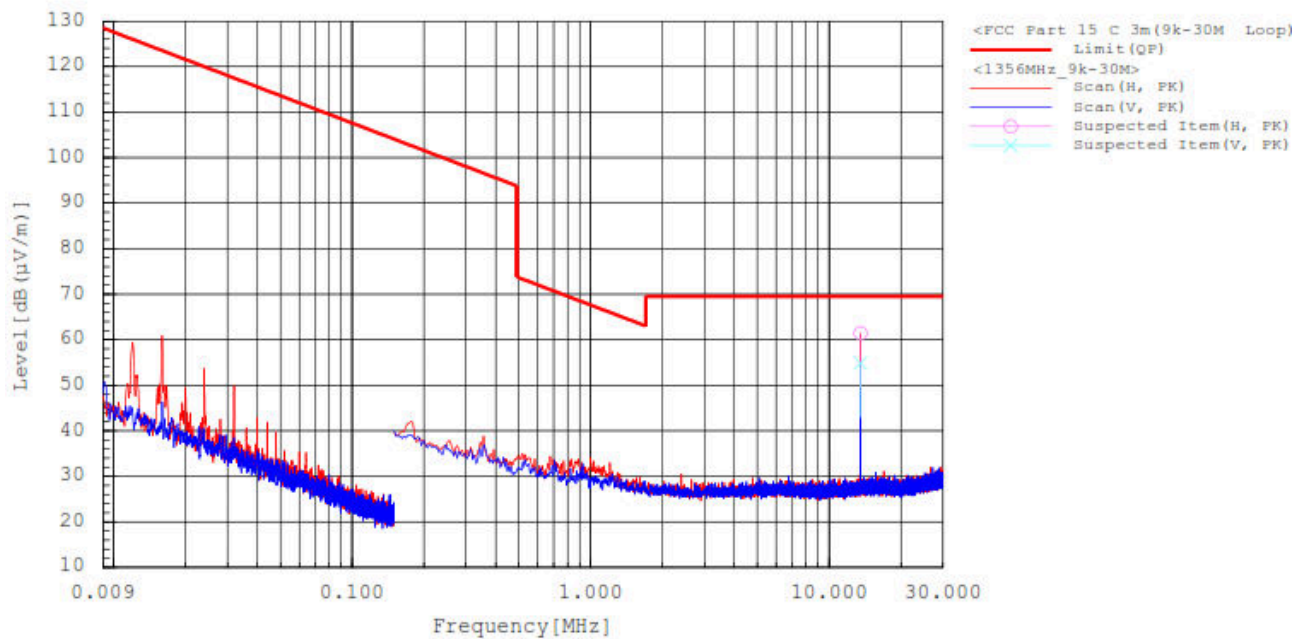
Page (15) / (21) Pages

2) Frequency range : 9 kHz – 30 MHz

The requirements are:

☒ Complies

Project no. : 05405
Test Mode : 13.56
Tester : SJH
Date : 3 November, 2025 19:34



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]
1	13.559	H	35.1	26.3	61.4	69.5	8.1	99.9	208.1
2	13.559	V	28.6	26.3	54.9	69.5	14.6	99.9	291.0

Remark :

1. Result = Reading + c.f(correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
3. The test result in peak detector is less than quasi-peak limit.
4. Test frequency (13.56 MHz) is the test frequency.
5. Emissions more than 20 dB below the limit need not be reported



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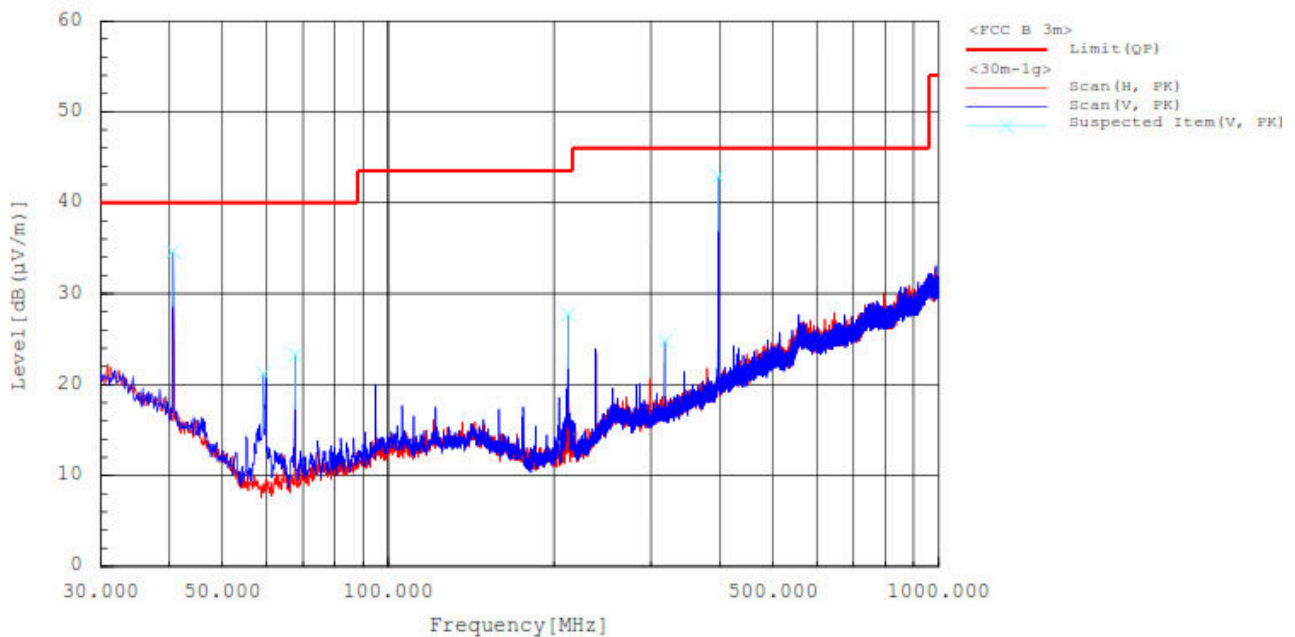
Page (16) / (21) Pages

3) Radiated emissions in the range of 30 MHz to 1 000 MHz band

The requirements are:

☒ Complies

Project no. : 05405 :
Test Mode : 13.56MHz :
Tester : sjh :
Date : 3 November, 2025 20:22 :
: :



Spectrum Selection

No.	Frequency [MHz]	Pol	Reading [dB (μV)]	c.f. [dB (1/m)]	Result [dB (μV/m)]	Limit [dB (μV/m)]	Margin [dB]	Height [cm]	Angle [deg]
1	40.670	V	44.8	-10.2	34.6	40.0	5.4	100.0	272.2
2	59.391	V	39.6	-18.4	21.2	40.0	18.8	299.9	297.8
3	67.733	V	41.1	-17.8	23.3	40.0	16.7	100.0	108.6
4	211.972	V	42.1	-14.4	27.7	43.5	15.8	100.0	204.0
5	317.993	V	33.9	-9.2	24.7	46.0	21.3	100.0	359.9
6	397.533	V	49.5	-6.6	42.9	46.0	3.1	100.0	159.0

Remark :

1. Result = Reading + c.f(Correction factor)
2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
3. The test result in peak detector is less than quasi-peak limit.

4.3 Frequency Stability

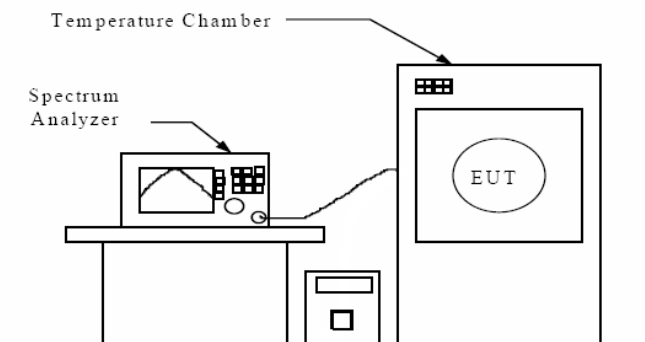
Requirement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Test Procedures

For the emission bandwidth refer ANSI C63.10-2020, clause 6.8(Frequency stability tests).

Test Setup



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Report No.:

CTK-2025-03166

Page (18) / (21) Pages

Test Results

The requirements are:

☒ Complies

Condition	Measurement Frequency (MHz)				Frequency Stability (ppm)			
	Startup	2 min	5 min	10 min	Start-up	2 min	5 min	10 min
Temp. 50℃	13.560 412	13.560 394	13.560 388	13.560 384	30.38	29.06	28.61	28.32
Temp. 40℃	13.560 436	13.560 414	13.560 410	13.560 404	32.15	30.53	30.24	29.79
Temp. 30℃	13.560 454	13.560 438	13.560 436	13.560 432	33.48	32.30	32.15	31.86
Temp. 20℃	13.560 468	13.560 468	13.560 475	13.560 480	34.51	34.51	35.03	35.40
Temp. 10℃	13.560 518	13.560 514	13.560 519	13.560 522	38.20	37.91	38.27	38.50
Temp. 0℃	13.560 547	13.560 544	13.560 547	13.560 550	40.34	40.12	40.34	40.56
Temp. -10℃	13.560 553	13.560 554	13.560 554	13.560 553	40.78	40.86	40.86	40.78
Temp. -20℃	13.560 527	13.560 539	13.560 539	13.560 529	38.86	39.75	39.75	39.01
Voltage 85%	13.560 486	13.560 481	13.560 481	13.560 481	35.84	35.47	35.47	35.47
Voltage 115%	13.560 481	13.560 481	13.560 481	13.560 481	35.47	35.47	35.47	35.47
Limit(ppm)	-				100			

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Report No.:

CTK-2025-03166

Page (19) / (21) Pages

4.4 AC Conducted Emissions

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2020 - Section 6.2.2

RSS-Gen – Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit**- 15.207(a)**

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average**
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

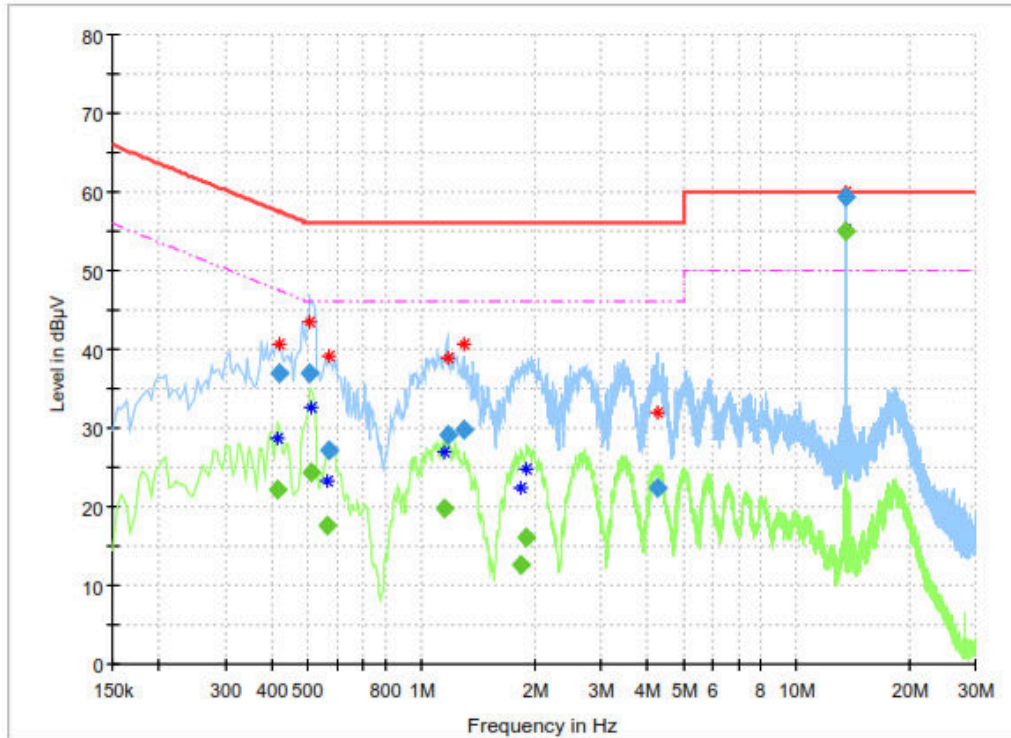
Test Results

The requirements are:

☒ Complies

Test Data

[LINE, NEUTRAL]



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.415500	---	22.07	47.54	25.47	15000.0	9.000	N	ON	9.9
0.420000	36.96	---	57.45	20.49	15000.0	9.000	N	ON	9.9
0.505500	36.99	---	56.00	19.01	15000.0	9.000	N	ON	10.0
0.510000	---	24.37	46.00	21.63	15000.0	9.000	N	ON	10.0
0.564000	---	17.55	46.00	28.45	15000.0	9.000	N	ON	10.0
0.568500	27.19	---	56.00	28.81	15000.0	9.000	N	ON	10.0
1.153500	---	19.71	46.00	26.29	15000.0	9.000	N	ON	9.8
1.171500	29.06	---	56.00	26.94	15000.0	9.000	N	ON	9.8
1.297500	29.84	---	56.00	26.16	15000.0	9.000	N	ON	9.8
1.842000	---	12.66	46.00	33.34	15000.0	9.000	N	ON	9.7
1.909500	---	16.06	46.00	29.94	15000.0	9.000	N	ON	9.7
4.245000	22.45	---	56.00	33.55	15000.0	9.000	N	ON	9.7
13.560000	---	55.02	50.00	-5.02	15000.0	9.000	N	ON	10.1
13.560000	59.30	---	60.00	0.70	15000.0	9.000	N	ON	10.1

* The frequency 13.56 MHz is the Fundamental signal.

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Report No.:

CTK-2025-03166

Page (21) / (21) Pages

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Analyzer	Agilent	N9020A	MY50510240	2025-07-02	2026-07-02
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2025-03-21	2026-03-21
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2025-04-28	2026-04-28
4	BILOG ANTENNA	TESEQ	CBL6111D	63162	2024-09-13	2026-09-13
5	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2024-04-15	2026-04-15
6	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2025-07-28	2026-07-28
7	6dB Attenuator	NONE	6dB	190557	2025-09-18	2026-09-18
8	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2025-07-28	2026-07-28
9	EMI Test Receiver	R&S	ESR3	102826	2025-04-28	2026-04-28
10	LISN	R&S	ENV216	101236	2025-10-23	2026-10-23
11	Dc Power Supply	HP	E3632A	KR94907541	2025-09-18	2026-09-18
12	Temp&Humi Chamber	ESEC CORP.	SH-642	93016524	2025-10-31	2026-10-31

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2025-11-03
2	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2025-03-05
3	RF Cable (9 kHz - 30 MHz Radiated)	Canare Corporation	L-5D2W	N/A	2025-03-05
4	RF Cable (30 MHz - 1 GHz Radiated)	Canare Corporation	L-5D2W	N/A	2025-03-05
5	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2025-03-05

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