

Radio Testing of the

TSI Incorporated

Model: RVS5

Ground Speed Sensor

In accordance with CFR 47 Part 95 Subpart M and
RSS-251 Issue 2 July 2018

TSI Incorporated
500 Cardigan Rd
Shoreview, Minnesota 55126



America

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Date: July 2026

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RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Authorized Signatory	Ferdinand Custodio	23-July-2026	

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with CFR 47 Part 95 Subpart M and RSS-251 Issue 2 July 2018.



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REPORT ON	Radio Testing of the TSI Incorporated RVS5 Ground Speed Sensor
TEST REPORT NUMBER	721021471A
TEST REPORT DATE	July 2026
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APPROVED BY	Ferdinand Custodio  Name Authorized Signatory Title: Senior RADIO Test Engineer / Wireless Team Lead
DATED	July 23, 2026



Revision History

721021471A TSI Incorporated RVS5 Ground Speed Sensor					
DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
07/23/2026	—	Initial Release	—	—	Ferdinand S. Custodio

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SECTION 1

REPORT SUMMARY

Radio Testing of the
TSI Incorporated
RVS5 Ground Speed Sensor

1.1 INTRODUCTION

The information contained in this report is intended to show verification of the TSI Incorporated RVS5 Ground Speed Sensor to the requirements of CFR 47 Part 95 Subpart M and RSS-251 Issue 2 July 2018.

Objective	To perform Radio testing to determine the Equipment Under Test's (EUT's) compliance with the test specification, for the series of tests carried out.
Manufacturer	TSI Incorporated
EUT	Ground Speed Sensor
Part Number	RVS5
FCC ID	2A22JDJCRVS5
IC Number	28101-DJCRVS5
Serial Number(s)	20250002 21250005
Number of Samples Tested	1
Test Specification/Issue/Date	• CFR 47 Part 95 Subpart M (October 1, 2025). • RSS-251 Issue 2 July 2018 Vehicular Radar and Airport Fixed or Mobile Radar in the 76-81 GHz Frequency Band.
Start of Test	June 01, 2026
Finish of Test	June 11, 2026
Name of Engineer(s)	Joe Salvador
Related Document(s)	• ANSI C63.10-2020. American National Standard of Procedures for Compliance testing of Unlicensed Wireless Devices. • Radar5 Programming Rev0 • Radar 5 EMC Test Plan for TUV PRELIMINARY • Radar5 SRE Artifact Support Data Rev1 • MixingProductCalculations_R1 • ANSI C63.26 - 2015 and KDB653005 D01



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with CFR 47 Part 95 Subpart M and RSS-251 Issue 2 July 2018 are shown below:

FCC Part2	FCC Part95M	RSS	Test Description	Result
15.203		RSS-210	Antenna Requirements	Compliant
§2.1046	§95.3367 (b)	RSS -251 Section 9	Radiated Power Limits – Peak Power (EIRP)	Compliant
	§95.3367 (a)	RSS -251 Section 8	Radiated Power Limits – Average Power (EIRP)	Compliant
§2.1053	§95.3379	RSS -251 Section 10	Radiated Spurious Emissions	Compliant
§2.1055	§95.3379 (b)	RSS -251 Section 11	Frequency Stability	Compliant
§2.1049		RSS -251 Section 7	Occupied Bandwidth	Compliant



1.3 PRODUCT INFORMATION

1.3.1 EUT General Description

The Equipment Under Test (EUT) is a TSI Incorporated RVS5 Ground Speed Sensor. The RVS5 is an agricultural speed sensor which utilizes automotive-based radar distance sensing chip which can function between 76-81GHz using FMCW mmWave sensor antennas-on-package (AOP). The transmit and receive antenna are embedded in the chip itself. The chip uses FMCW chirps to determine range then further processing of the range measurement provides Doppler velocity.

1.3.2 Technical Description

EUT Description	Ground Speed Sensor		
Model Number	RVS5		
Serial Number	20250002 21250005		
Input Voltage	12V battery		
Output RF Power	19.41 dBm EIRP (Average band power)		
Frequency Range	77.075 GHz to 78.480 GHz		
Modulation Type	FMCW		
Modulation Characteristic	Sawtooth		
Chirp Time	14.48 μ s single chirp		
Type of Equipment	☐ Fixed	☒ Mobile	☐ Portable
Directional Antenna Gain	0 dBi (Manufacturer's Declaration)		

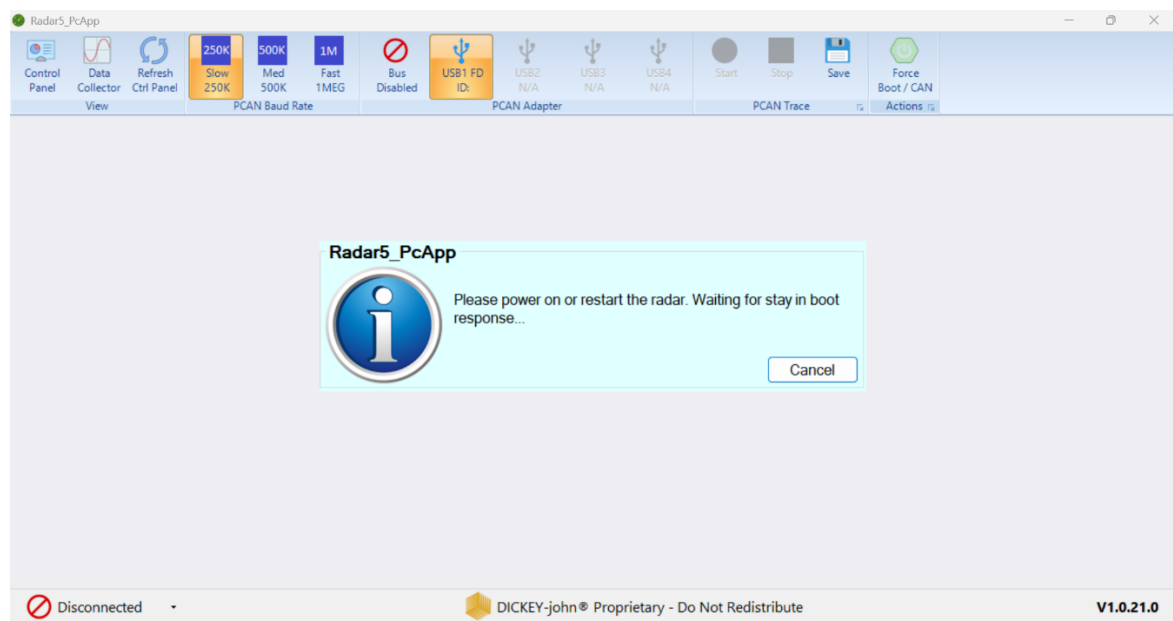
1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

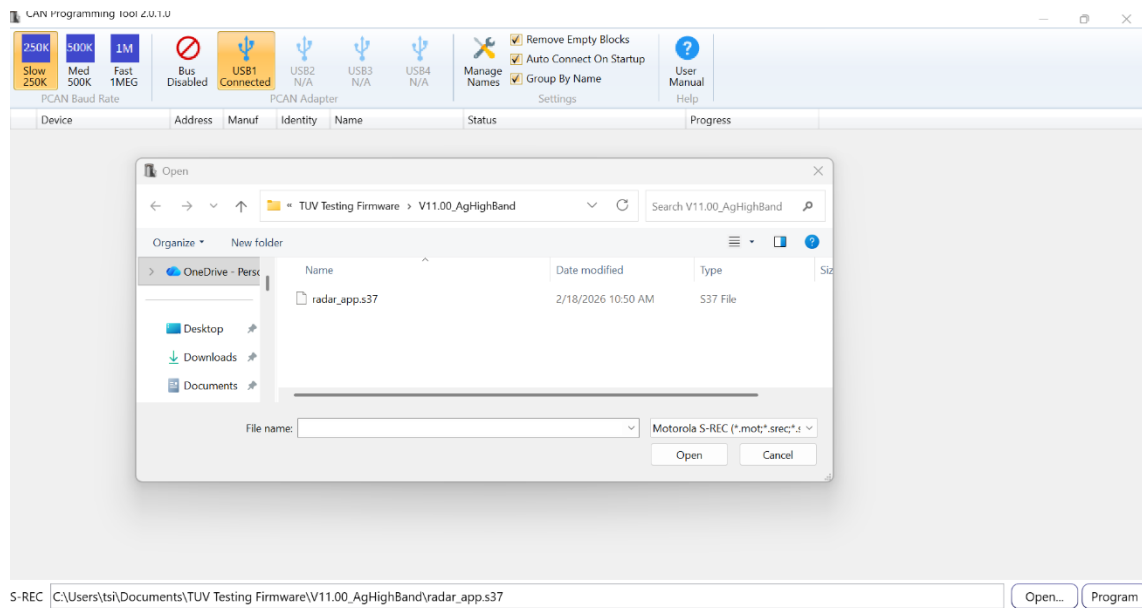
Test Configuration	Description
Default	Initial configuration of EUT is made with engineering software running on a laptop temporarily connected to the CAN bus via the DB9 serial connection. Most testing, however, will be made with preconfigured devices identified by serial numbers, so only the power switch needs to be turned on before taking measurements. The EUT was transmitting at full power configured with V11.0 Firmware.

1.4.2 EUT Exercise Software

Radar5_PcApp



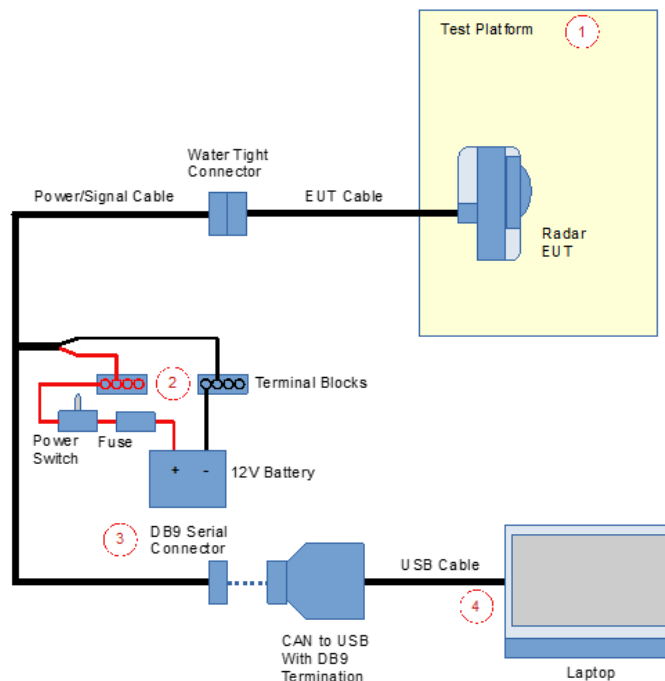
CAN Programming Tool 2.0.1.0



1.4.3 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
PEAK	Power/Signal Cable Harness	Connected to the EUT, Battery and support pc.
-	CAN/USB interface	Connected to the cable harness.
Dell	Laptop Intel Core i5-1135G7 Windows 11 Pro	For configuration and monitoring
Power PS Sonic	12V 5.0 Ah Model: PS-1250 F1	Rechargeable Battery
E-Fast	Model: ZYX-J50	Smart Battery Charger

1.4.4 Simplified Test Configuration Diagram



1.5 DEVIATIONS FROM THE STANDARD

SN: 212500005 was utilized for the unwanted spurious emission test from 81-110GHz spectrum. This unit is configured with less power in order prevent saturation of the know artifact at 109 GHz. See document (Radar5 SRE Artifact Support Data Rev1) for details.

TUVSUD testing with the receiving antenna (75-110) was setup to measure SRE from 81GHz to 110GHz.

The first measurement was tested as the baseline of the setup using N=7 (the harmonic number which sends the 7th harmonic as the Local Oscillator (LO) signal to the harmonic mixer. The SRE emissions (including the 109GHz offending SRE) found in the measurement was a confirmed mixing artifact of the mixing process at N=7.

The second measurement was tested with the Frequency Analyzer set to N=9 (9th harmonic sent as the LO signal). In this measurement, the 109GHz SRE moved, with the EUT radiating in the same. The measurement of the shifted SREs correlated with the shift to N=9.

Due to the shift in SRE emissions without changing the operation of the radar unit and changing the N=7 to N=9 LO setting, the measured SREs were deemed to be not real and artifacts of the harmonic mixer.

Due to the Frequency Analyzer being overloaded, the Low Noise Amplifier was removed. With it's removal, the noise floor was above the regulation limit. The noise floor reading was lowered artificially to give clear data as to correlate the test model and test data. The RSE testing from 81GHz to 110GHz will use a lower power firmware version (correlated to the base software) to give clear results that verify the artifact model matches the Frequency Analyzer SREs, due to the Harmonic Mixer.

1.6 MODIFICATION RECORD

Description of Modification	Modification Fitted By	Date Modification Fitted
Serial Number: 20250002 21250005		
None	—	—

The table above details modifications made to the EUT during the test programme. The modifications incorporated during each test (if relevant) are recorded on the appropriate test pages.

1.7 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020. American National Standard of Procedures for Compliance testing of Unlicensed Wireless Devices.

For conducted and radiated emissions, the equipment under test (EUT) was configured to measure its highest possible emission level. This level was based on the maximized cable configuration from exploratory testing per ANSI C63.10-2020. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY LOCATION

1.8.1 TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681). Phone: 858 678 1400
FAX: 858 546 0364

1.9 TEST FACILITY REGISTRATION

1.9.1 FCC – Designation No.: US1146

TÜV SÜD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.948 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Designation is US1146.

1.9.2 Innovation, Science and Economic Development Canada (IC) Registration No.: 3067A-1 & 22806-1

The 3m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Mira Mesa) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 22806-1.

1.9.3 BSMI – Laboratory Code: SL2-IN-E-028R (US0102)

TÜV Product Service Inc. (San Diego) is a recognized EMC testing laboratory by the BSMI under the MRA (Mutual Recognition Arrangement) with the United States. Accreditation includes CNS 13438 up to 6GHz.



1.9.4 NCC (National Communications Commission - US0102)

TÜV SÜD America Inc. (San Diego) is listed as a Foreign Recognized Telecommunication Equipment Testing Laboratory and is accredited to ISO/IEC 17025 (A2LA Certificate No.2955.13) which under APEC TEL MRA Phase 1 was designated as a Conformity Assessment Body competent to perform testing of equipment subject to the Technical Regulations covered under its scope of accreditation including RTTE01, PLMN01 and PLMN08 for TTE type of testing and LP002 for Low-Power RF Device type of testing.

VCCI – Registration No. A-0412 and A-0413

TÜV SÜD America Inc. (San Diego) is a VCCI registered measurement facility which includes radiated field strength measurement, radiated field strength measurement above 1GHz, mains port interference measurement and telecommunication port interference measurement.

1.9.5 RRA – Identification No. US0102

TÜV SÜD America Inc. (San Diego) is National Radio Research Agency (RRA) recognized laboratory under Phase I of the APEC Tel MRA.

1.9.6 OFCA – U.S. Identification No. US0102

TÜV SÜD America Inc. (San Diego) is recognized by Office of the Communications Authority (OFCA) under Appendix B, Phase I of the APEC Tel MRA.



SECTION 2

TEST DETAILS

Radio Testing of the
TSI Incorporated
Radar 5 Ground Speed Sensor



2.1 ANTENNA REQUIREMENTS

2.1.1 Specification Reference

FCC 47 CFR 15.203 and RSS-210

2.1.2 Standard Applicable

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

2.1.3 Verdict

Complies. The EUT has an integral antenna which complies with FCC 15.203 requirements.



2.2 RADIATED POWER LIMITS

2.2.1 Specification Reference

Part 2.1046(a), Part 95 Subpart M §95.3367(a) (b) and RSS-251 Sec. 8.0 and Section 9.0

2.2.2 Standard Applicable

FCC Limit

The fundamental radiated emission limits within the 76-81 GHz band are expressed in terms of Equivalent Isotropically Radiated Power (EIRP) and are as follows:

(a) The maximum power (EIRP) within the 76-81 GHz band shall not exceed 50 dBm based on measurements employing a power averaging detector with a 1 MHz Resolution Bandwidth (RBW).

(b) The maximum peak power (EIRP) within the 76-81 GHz band shall not exceed 55 dBm based on measurements employing a peak detector with a 1 MHz RBW.

RSS-251 Limit

8) The radar devices total average e.i.r.p shall not exceed 50 dBm over the occupied bandwidth.

9) The radar devices peak e.i.r.p spectral density shall not exceed 55 dBm/MHz.

KDB 653005 D01

The maximum fundamental emission power (EIRP) shall be measured using a power averaging (rms) detector with a 1 MHz resolution bandwidth (RBW) and integrated over the full 99% occupied bandwidth (OBW) to obtain the data necessary to demonstrate compliance to the 50 dBm limit.

2.2.3 Equipment Under Test and Modification State

Serial No: 20250002 / Default Test Configuration

2.2.4 Date of Test/Initial of test personnel who performed the test

June 11, 2026 / JS

2.2.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility

Ambient Temperature	27.7 °C
Relative Humidity	45.4 %
ATM Pressure	100.5 kPa

2.2.7 Additional Observations

- This is a radiated test. Transmitting continuously on frequency with modulation.
- Test distance of 3 m was used for the fundamental emissions measurement.
- Offset is for the free space loss of the relevant frequency being investigated otherwise antenna gain is programmed as a transducer factor (TDF) while mixer conversion loss is programmed in the SA mixer setup.
- Final (dBm, e.i.r.p) = Reading Value (dBm) + (Antenna Gain Correction Factor (dB) + External Mixer Correction Factor (dB) + Cable Correction Factor (dB) + Free Space Loss Correction Factor (dB)).
- The FMCW chirps correction factor was calculated using the formula:

$$CF_{\text{chirp}} = 5 \times \log \left(1 + K \times \left(\frac{\text{Span}}{t \times \text{RBW}^2} \right)^2 \right)$$

- Guidance for calculating the correction factor is from Application Note 1EF107-1E Rohde & Schwarz Peak and Mean Power measurements on wideband FMCW radar signals.
- Sample calculation for FMCW chirps correction factor:

$$CF_{\text{chirp}} = 5 \times \log \left(1 + K \times \left(\frac{\text{Span}}{t \times \text{RBW}^2} \right)^2 \right)$$

$$CF_{\text{chirp}} = 5 \times \log \left(1 + 0.1947 \times \left(\frac{1.405 \text{ GHz}}{14.48 \mu\text{s} \times 1 \text{ MHz}^2} \right)^2 \right)$$

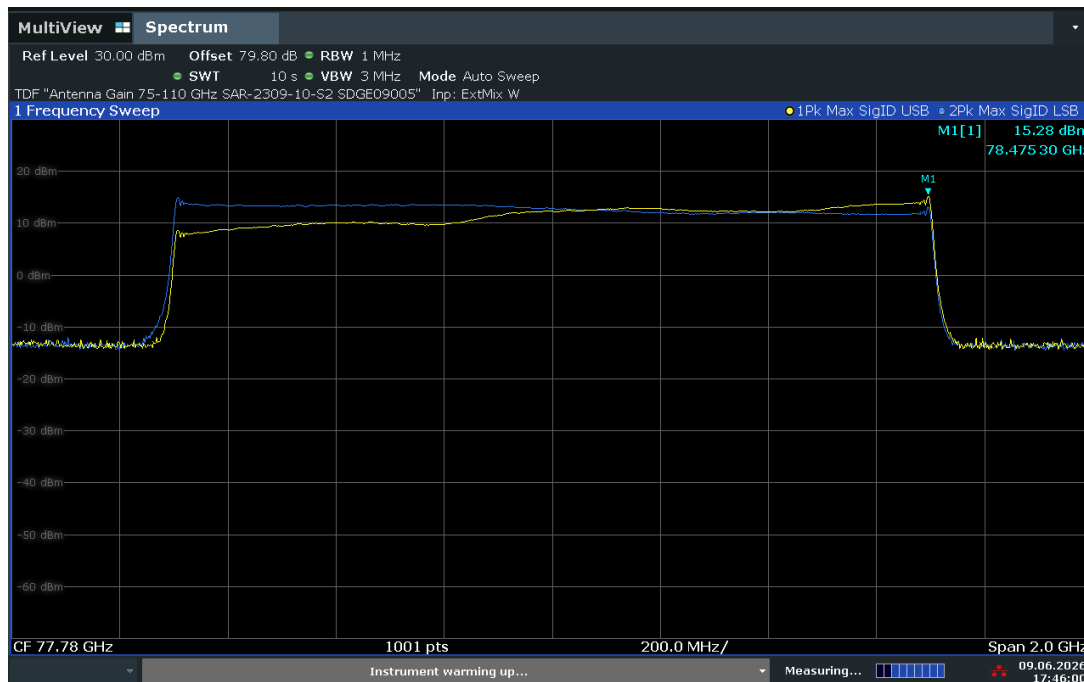
$$CF_{\text{chirp}} = 16.32 \text{ dB}$$

2.2.8 Test Results

Complies. See attached plots.

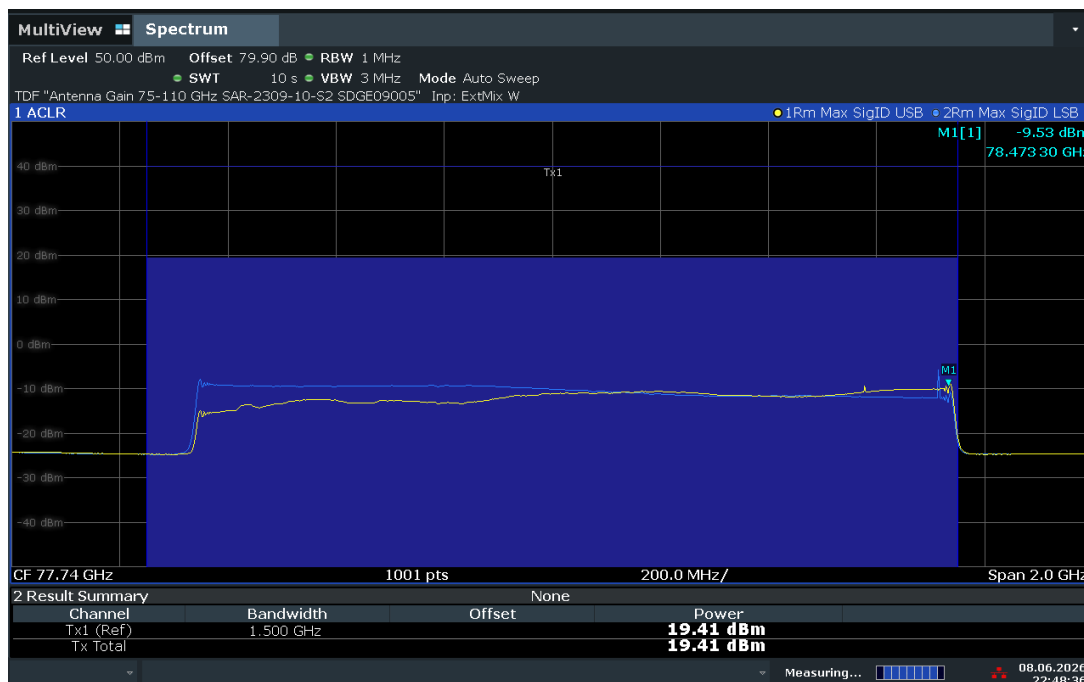
Detector	Measured	FMCW Chirps Correction Factor	Corrected Level (EIRP)	EIRP Limit
Peak	15.28 dBm	16.32 dB	31.6 dBm	55 dBm
Average (band power)	19.41 dBm	-	19.41 dBm	50 dBm

2.2.9 Test Plots



17:46:00 09.06.2026

Peak Power EIRP



22:48:36 08.06.2026

Average Power EIRP

2.3 OCCUPIED BANDWIDTH

2.3.1 Specification Reference

Part 2.1049 and RSS-251 Section 7.0

2.3.2 Standard Applicable

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

2.3.3 Equipment Under Test and Modification State

Serial No: 20250002 / Default Test Configuration

2.3.4 Date of Test/Initial of test personnel who performed the test

June 11, 2026 / JS

2.3.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility

Ambient Temperature	28.8 °C
Relative Humidity	41.2 %
ATM Pressure	99.9 kPa

2.3.7 Additional Observations

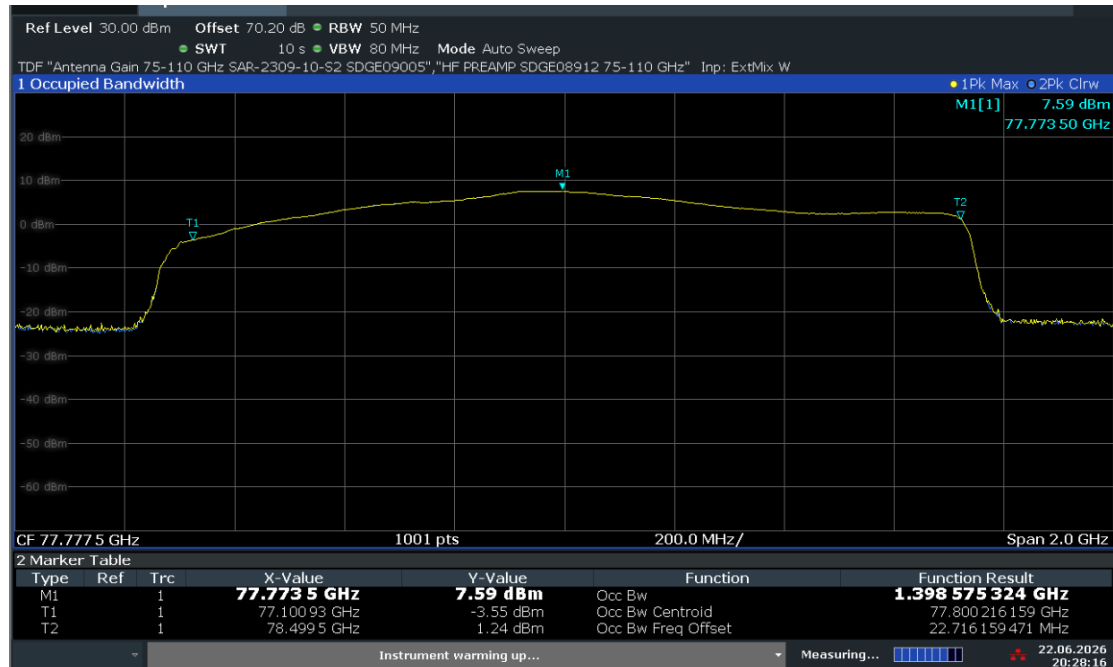
- This is a radiated test.
- VBW > RBW.
- Detector is peak.
- Sweep time is set to Auto.

2.3.8 Test Results

Complies. See attached plot.

99% OBW	1.39 GHz
f_L Limit (76GHz) f_H Limit (81GHz)	f_L = 77.100 GHz f_H = 78.499 GHz

2.3.9 Test Plot



99% OBW

Test note: Highest RBW utilized

$T1 = f_L$

$T2 = f_H$

2.4 UNWANTED EMISSIONS LIMITS

2.4.1 Specification Reference

Part 2.1053, FCC Part 95 Subpart M §95.3379 and RSS-251 Section 10

2.4.2 Standard Applicable

(a) The power density of any emissions outside the 76-81 GHz band shall consist solely of spurious emissions and shall not exceed the following:

- (1) Radiated emissions below 40 GHz shall not exceed the field strength as shown in the following emissions table.

Radiated emission limits 9 kHz – 40 GHz		
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
960 - 40000	500	3

Notes(s):

1. In the emissions table the tighter limit applies at the band edges.
2. The limits are based on the frequency of the unwanted emissions and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
3. The emissions limits shown in the table are based on measurements employing CISPR quasi-peak detectors except for the frequency bands are based on measurements employing an average detector with 1MHz RBW.

FCC Radiated emission limits 40 GHz – 231 GHz		
Frequency (GHz)	Power Density (pW/cm ²)	Measurement distance (meters)
40 - 200	600	3
Above	1000	3

Note(s):

1. According to 47 CFR, Part 95, 95.3379(a)(3) the spectrum shall be investigated up to 231 GHz.
2. The power density of 600 pW/cm² corresponds to a transmit power of -1.69 dBm, a field strength of 93.5 dBuV/m for 3 m distance and 103.1 dBuV/m for 1 m distance.
3. The power density of 1000 pW/cm² corresponds to a field strength of 95.8 dBuV/m for 3 m distance, 105.3 dBuV/m for 1 m distance and 111.3 dBuV/m for 0.5m distance.
4. Power density calculation: $P(\text{mW}) = (\text{mW}/\text{m}^2) \times 4 \pi(r)^2$

RSS-251 Radiated emission limits 40 GHz – 162 GHz		
Frequency (GHz)	Limit (dBm/MHz E.I.R.P)	Detetor
40 - 162	-30	RMS
Note(s): 1. For radar devices that operate solely in the 76 – 76 GHz Band (i.e. the occupied bandwidth is entirely contained in the 76- 77 GHz band), an unwanted emissions limit of 0 dBm/MHz shall apply for the unwanted emission that fall in the 73.5 – 76 GHz band. Outside the 73.5 – 76 GHz, the unwanted emission limits prescribed above shall apply.		

2.4.3 Equipment Under Test and Modification State

Serial No: 20250002
21250005 / Default Test Configuration

2.4.4 Date of Test/Initial of test personnel who performed the test

June 11 to 27, 2026 / JS

2.4.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility

Ambient Temperature 22.8 – 27.8 °C
Relative Humidity 39.6 – 42.9 %
ATM Pressure 100.1– 100.5 kPa

2.4.7 Additional Observations

- This is a radiated test.
- The spectrum was searched from 30MHz to 231GHz for FCC limits and 30MHz to 162MHz for ISED limits.
- Measurement was done using EMC32 automated software for below 40GHz. Reported level is the actual level with all the correction factors factored in.
- For measurements above 40GHz, the corresponding transducer factor (TDF) were programmed directly to the Spectrum Analyzer (e.g. antenna gain, LNA and the free space loss).
- Measurement above 40GHz is maximized by hand and the worst-case plot is presented in EIRP.
- SN: 21250005 was tested with a lower power setting for the 81GHz to 110GHz spectrum in order to avoid overload and saturate the test equipment. This will also help prevent unwanted artifacts in the spectrum due to saturation of the transmit signal and mixing artifacts from the test equipment.
- Limit lines above 40GHz were calculated and adjusted to correspond to the test distance.

- Tests distances and frequency ranges performed are summarized below:

Frequency Range	Test Distance
30 MHz to 1GHz	3 meters
1 GHz to 18 GHz	3 meters
18 GHz to 26 GHz	3 meters
26 GHz to 40 GHz	3 meters
40 GHz to 50 GHz	3 meters
50 GHz to 75 GHz	3 meters
75 GHz to 76 GHz	3 meters
81 GHz to 110 GHz	1 meter
110 GHz to 170 GHz	1 meter
170 GHz to 220 GHz	1 meter
220 GHz to 231 GHz	0.2 meter

- Final Value (E.I.R.P) = Reading Value (dBm) + (Antenna Gain Correction Factor (dB) + External Mixer Correction Factor (dB) + Cable correction factor (dB) + Free space loss correction factor (dB)).
- The measurement distance was verified to be greater than or equal to the far field distance of the measurement antenna (See far field summary below).
- Far-Field distance formula:
 $R_m = 2D^2/\lambda$

Antenna Far-Field Distance Summary

Antenna Model	Frequency Range (GHz)	Measurement Antenna		
		D (meters)	λ (meters)	R_m (meters)
HO19R	40-60	0.04625	0.004997	0.86
HO15R	50-75	0.03642	0.003997	0.66
HO10R	75-110	0.02540	0.002725	0.47
HO6R	110-170	0.01600	0.001763	0.29
HO5R	140-220	0.01254	0.001362	0.23
HO3R	220-325	0.00835	0.001297	0.11

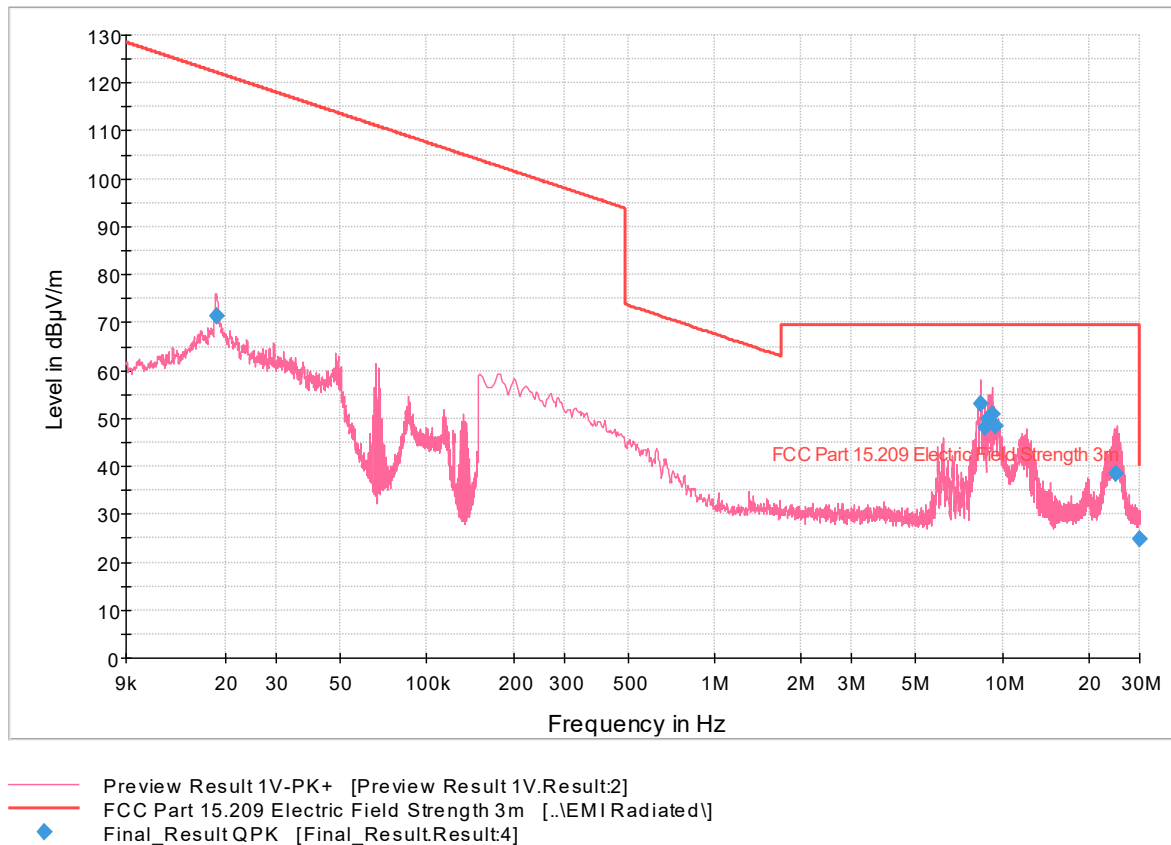


2.4.8 Test Results

Complies. See attached plots.

2.4.9 Below 30MHz Radiated Emission Test

Full Spectrum



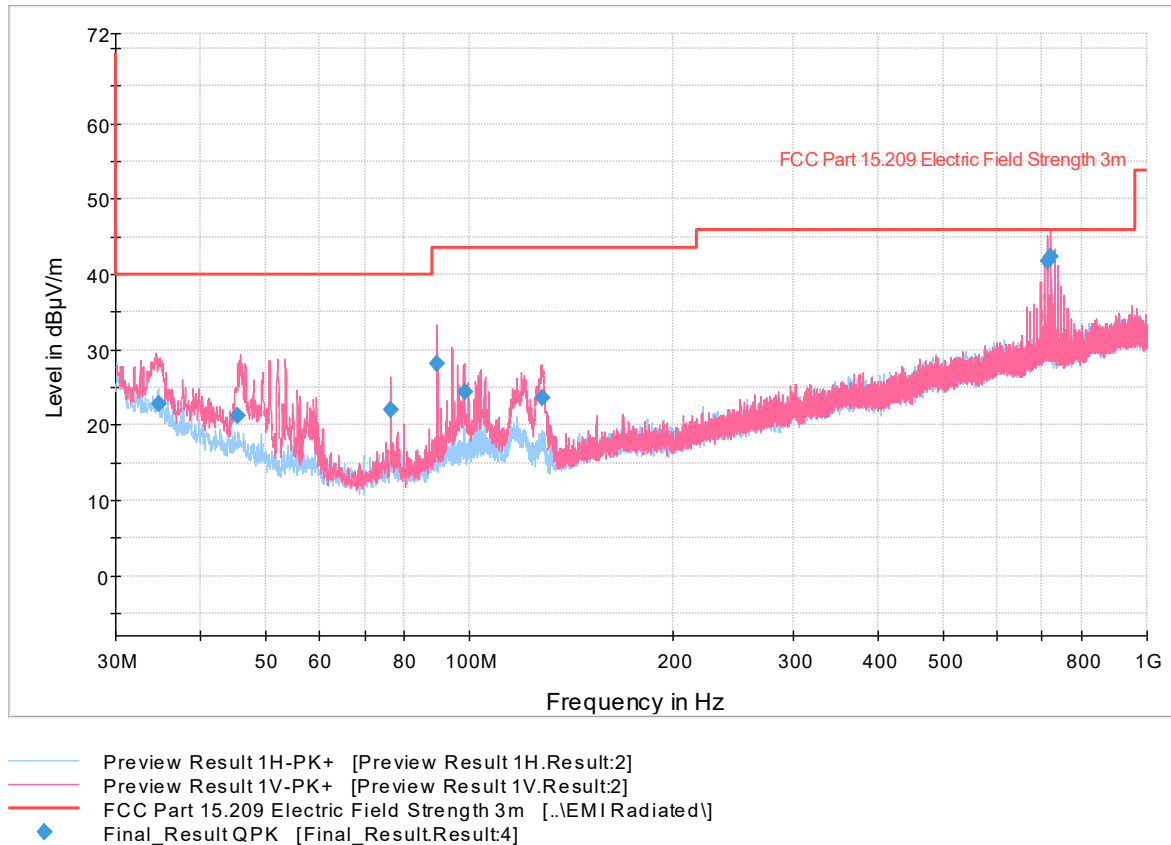
Quasi-Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Height (cm)	Azimuth (degrees)	Corr. (dB/m)
0.018627	71.47	122.19	50.72	1000.0	0.200	400.0	H	98.0	22
8.423328	52.99	69.50	16.51	1000.0	9.000	400.0	H	309.0	21
8.677740	48.08	69.50	21.42	1000.0	9.000	400.0	H	209.0	21
8.968847	49.87	69.50	19.63	1000.0	9.000	400.0	H	303.0	21
9.217363	51.02	69.50	18.48	1000.0	9.000	400.0	H	101.0	21
9.478182	48.25	69.50	21.25	1000.0	9.000	400.0	H	261.0	21
24.941685	38.33	69.50	31.17	1000.0	9.000	400.0	H	269.0	24
29.877200	24.91	69.50	44.59	1000.0	9.000	400.0	H	65.0	24

Test note: Measurements in the frequency bands 9.0-90.0 were measured in QuasiPeak (Worst case).

2.4.10 30MHz to 1GHz Radiated Emission Test

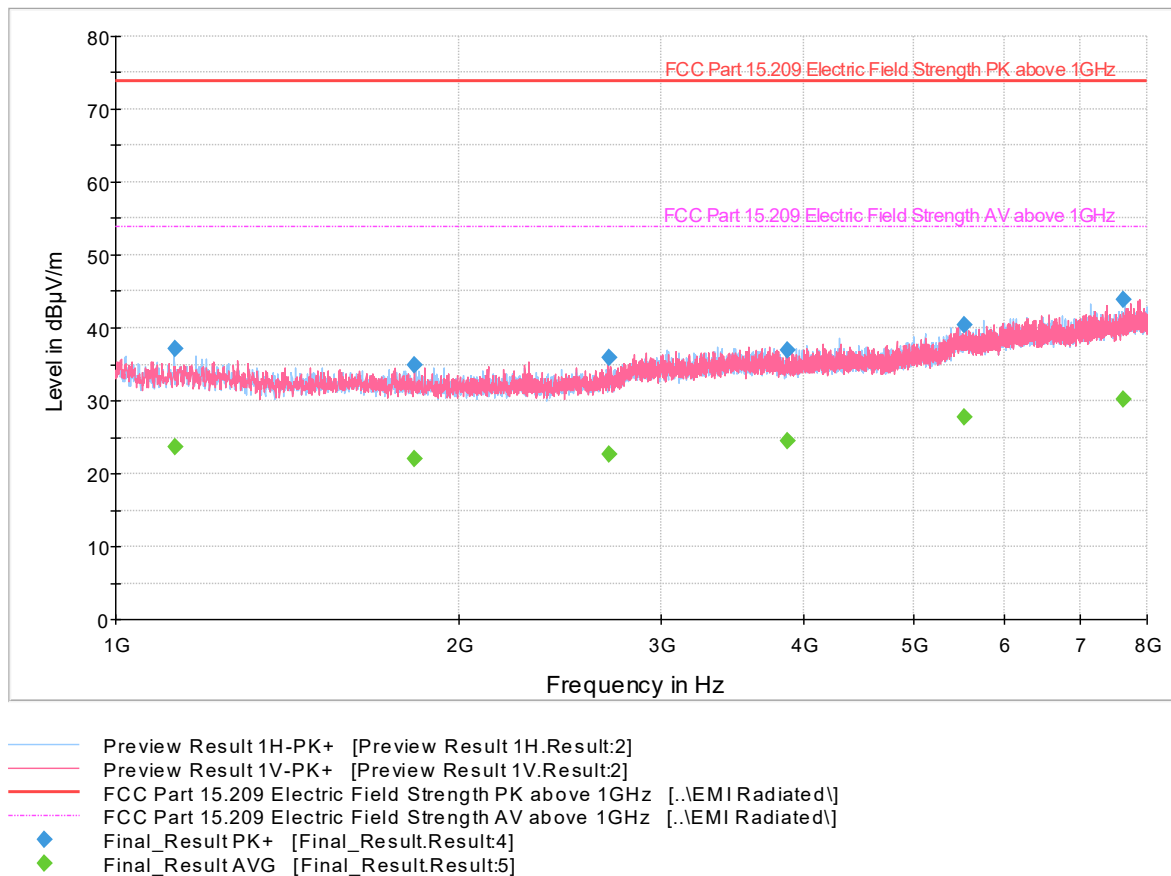
Full Spectrum



Quasi-Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.677333	22.78	40.00	17.22	1000.0	120.000	100.0	V	148.0	20
45.506333	21.18	40.00	18.82	1000.0	120.000	113.0	V	0.0	16
76.430667	22.10	40.00	17.90	1000.0	120.000	183.0	H	156.0	12
89.493333	28.23	43.50	15.27	1000.0	120.000	107.0	V	191.0	14
98.126333	24.39	43.50	19.11	1000.0	120.000	125.0	V	67.0	16
127.778667	23.57	43.50	19.93	1000.0	120.000	108.0	V	336.0	14
713.525000	41.75	46.00	4.25	1000.0	120.000	208.0	V	128.0	28
721.787000	42.41	46.00	3.59	1000.0	120.000	205.0	V	129.0	28

2.4.11 From 1GHz to 8GHz Radiated Emission Test



Peak Data

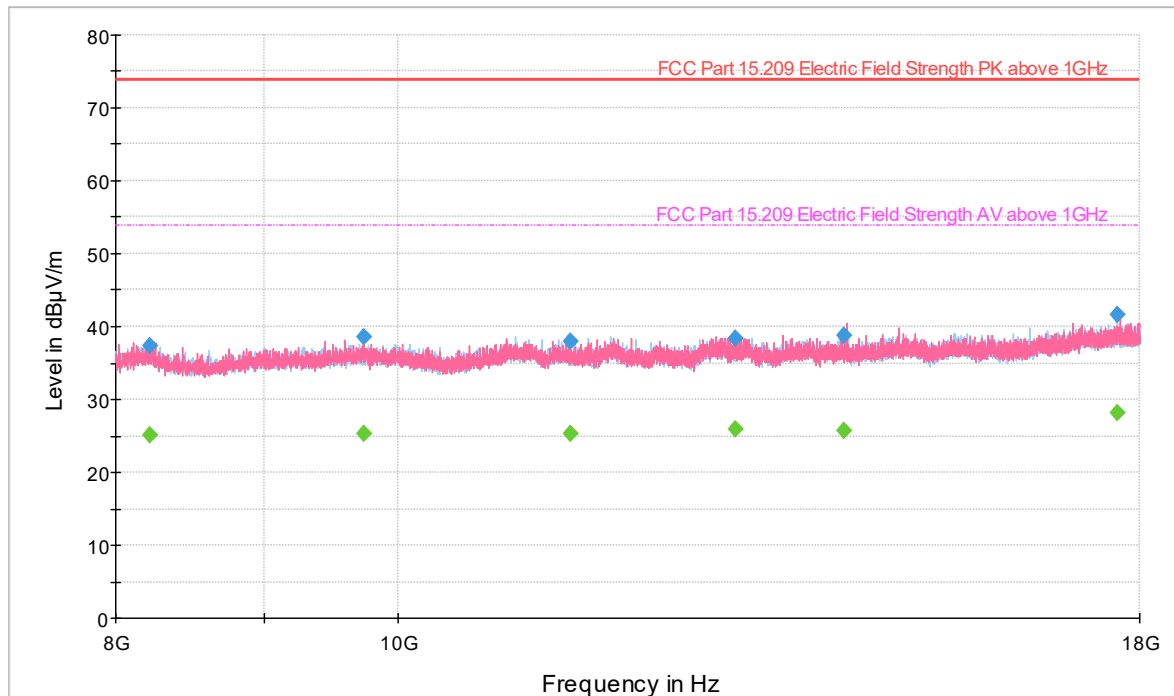
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1126.46950	37.17	73.90	36.73	1000.0	1000.000	350.0	H	273.0	-14
1828.93150	34.94	73.90	38.96	1000.0	1000.000	200.0	V	148.0	-15
2701.30400	35.88	73.90	38.02	1000.0	1000.000	300.0	V	284.0	-15
3875.50550	37.01	73.90	36.89	1000.0	1000.000	300.0	H	120.0	-12
5537.39800	40.51	73.90	33.39	1000.0	1000.000	200.0	H	306.0	-10
7623.94300	43.95	73.90	29.95	1000.0	1000.000	300.0	H	71.0	-8



Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1126.46950	23.68	53.90	30.22	1000.0	1000.000	350.0	H	273.0	-14
1828.93150	21.97	53.90	31.93	1000.0	1000.000	200.0	V	148.0	-15
2701.30400	22.66	53.90	31.24	1000.0	1000.000	300.0	V	284.0	-15
3875.50550	24.45	53.90	29.45	1000.0	1000.000	300.0	H	120.0	-12
5537.39800	27.84	53.90	26.06	1000.0	1000.000	200.0	H	306.0	-10
7623.94300	30.26	53.90	23.64	1000.0	1000.000	300.0	H	71.0	-8

2.4.12 From 8GHz to 18GHz Radiated Emission Test



— Preview Result 1H-PK+ [Preview Result 1H.Result:2]
— Preview Result 1V-PK+ [Preview Result 1V.Result:2]
— FCC Part 15.209 Electric Field Strength PK above 1GHz [..\EMI Radiated\
— FCC Part 15.209 Electric Field Strength AV above 1GHz [..\EMI Radiated\
◆ Final_Result PK+ [Final_Result.Result:4]
◆ Final_Result AVG [Final_Result.Result:5]

Peak Data

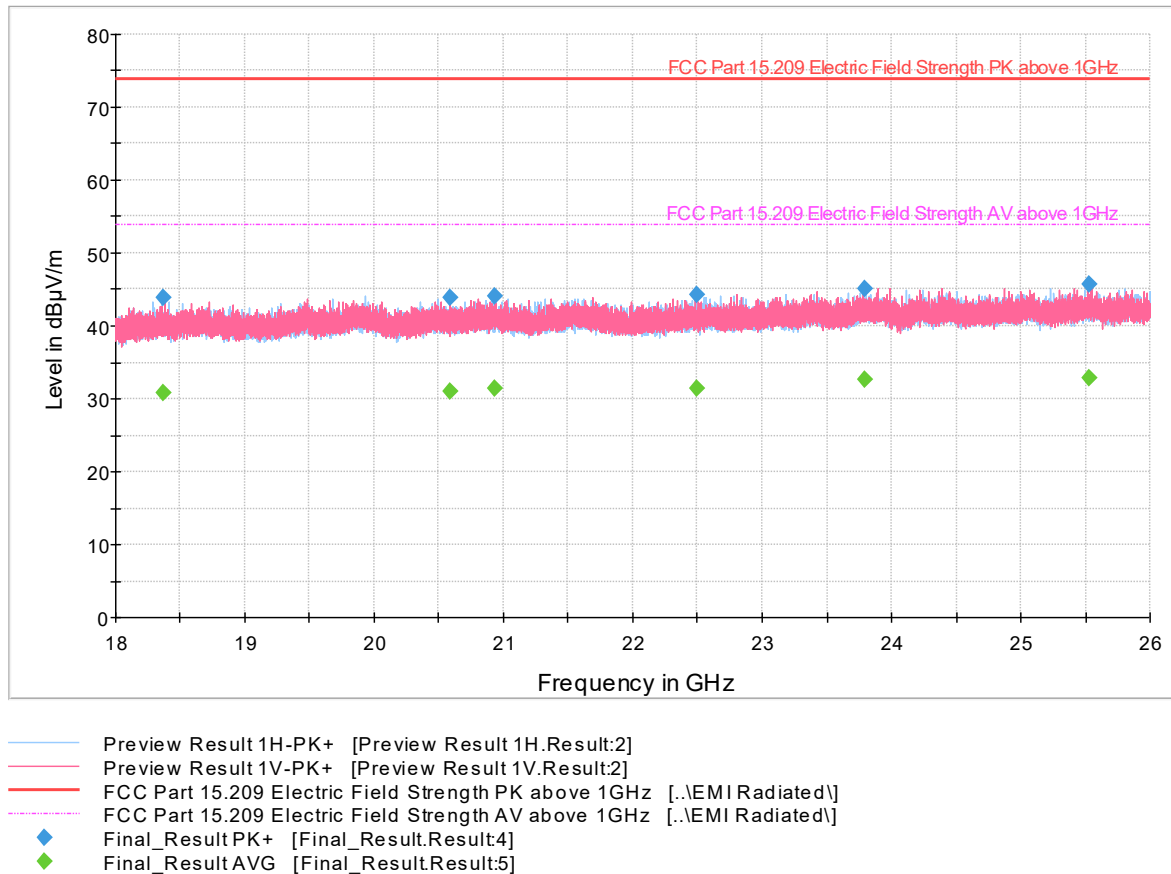
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8217.94800	37.43	73.90	36.47	1000.0	1000.000	350.0	V	294.0	-8
9743.08500	38.47	73.90	35.43	1000.0	1000.000	102.0	V	350.0	-7
11469.2200	37.87	73.90	36.03	1000.0	1000.000	350.0	H	85.0	-6
13064.8380	38.38	73.90	35.52	1000.0	1000.000	102.0	V	26.0	-5
14242.3770	38.82	73.90	35.08	1000.0	1000.000	300.0	V	348.0	-5
17689.8890	41.72	73.90	32.18	1000.0	1000.000	200.0	V	254.0	-2



Average Data

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8217.94800	25.07	53.90	28.83	1000.0	1000.000	350.0	V	294.0	-8
9743.08500	25.31	53.90	28.59	1000.0	1000.000	102.0	V	350.0	-7
11469.2200	25.31	53.90	28.59	1000.0	1000.000	350.0	H	85.0	-6
13064.8380	25.83	53.90	28.07	1000.0	1000.000	102.0	V	26.0	-5
14242.3770	25.66	53.90	28.24	1000.0	1000.000	300.0	V	348.0	-5
17689.8890	28.07	53.90	25.83	1000.0	1000.000	200.0	V	254.0	-2

2.4.13 18GHz to 26GHz Radiated Emission Test



Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18368.6000	43.92	73.90	29.98	1000.0	1000.000	150.0	V	63.0	2
20582.7333	43.92	73.90	29.98	1000.0	1000.000	150.0	H	135.0	2
20935.2666	44.11	73.90	29.79	1000.0	1000.000	250.0	H	69.0	2
22490.3333	44.38	73.90	29.52	1000.0	1000.000	150.0	H	3.0	3
23788.7333	45.20	73.90	28.70	1000.0	1000.000	250.0	V	15.0	5
25530.6000	45.69	73.90	28.21	1000.0	1000.000	150.0	V	37.0	6

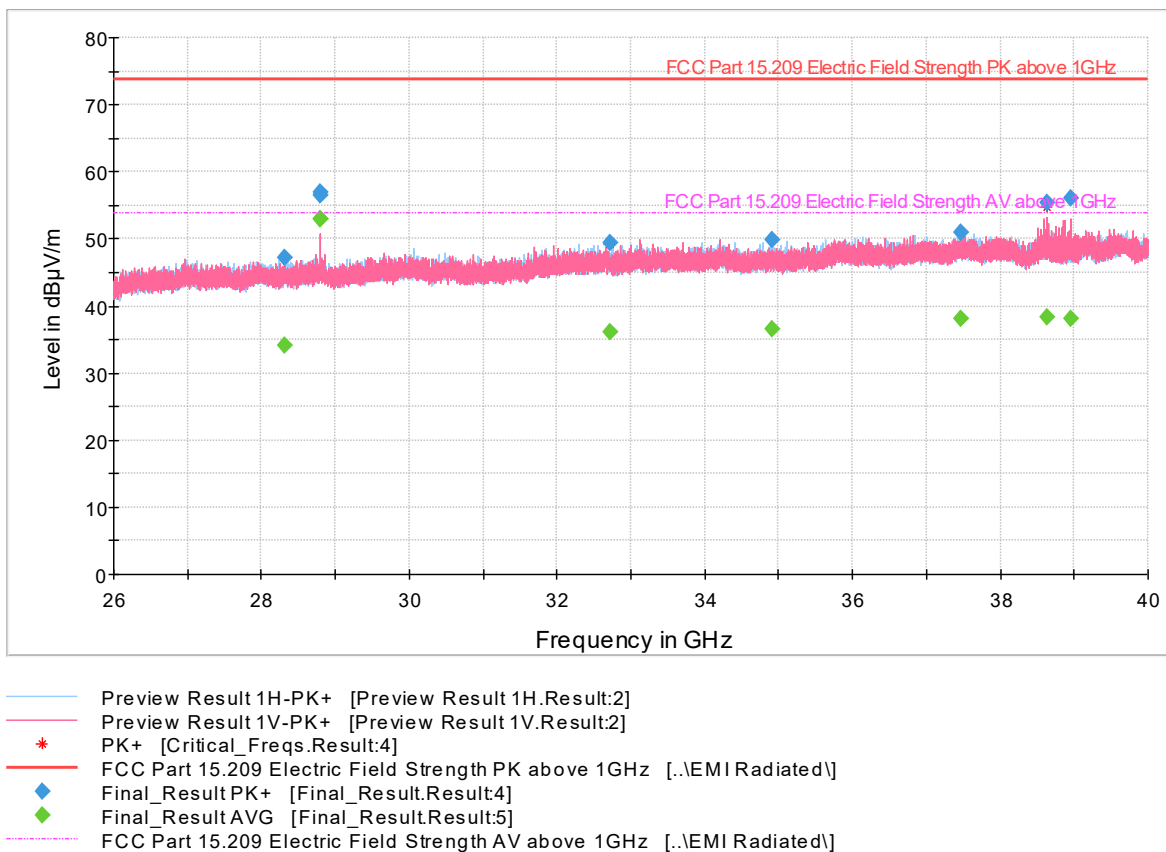


Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18368.6000	30.76	53.90	23.14	1000.0	1000.000	150.0	V	63.0	2
20582.7333	31.07	53.90	22.83	1000.0	1000.000	150.0	H	135.0	2
20935.2666	31.35	53.90	22.55	1000.0	1000.000	250.0	H	69.0	2
22490.3333	31.48	53.90	22.42	1000.0	1000.000	150.0	H	3.0	3
23788.7333	32.57	53.90	21.33	1000.0	1000.000	250.0	V	15.0	5
25530.6000	32.77	53.90	21.13	1000.0	1000.000	150.0	V	37.0	6

2.4.14 26GHz to 40GHz Radiated Emission Test

Full Spectrum



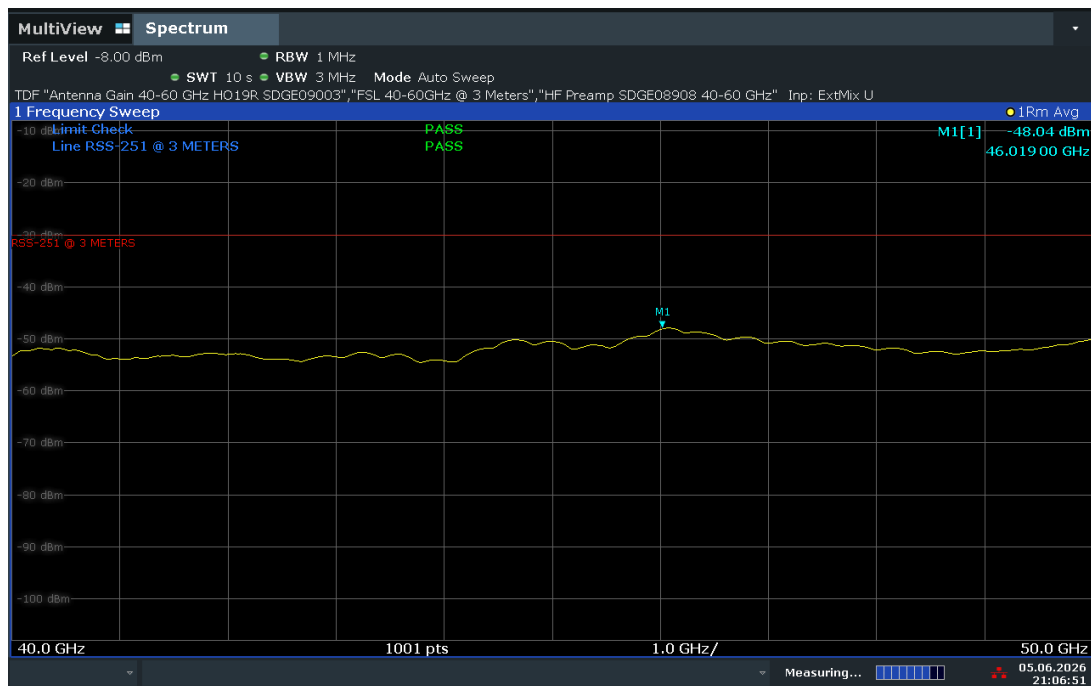
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
28320.9538	47.27	73.90	26.63	1000.0	1000.000	131.0	H	90.0	8
28798.7680	56.51	73.90	17.39	1000.0	1000.000	131.0	V	9.0	8
28798.7834	56.86	73.90	17.04	1000.0	1000.000	128.0	V	9.0	8
32720.6411	49.41	73.90	24.49	1000.0	1000.000	142.0	H	186.0	12
34920.9380	49.97	73.90	23.93	1000.0	1000.000	176.0	H	196.0	13
37473.9869	51.01	73.90	22.89	1000.0	1000.000	175.0	H	346.0	14
38629.6849	55.44	73.90	18.46	1000.0	1000.000	125.0	V	6.0	14



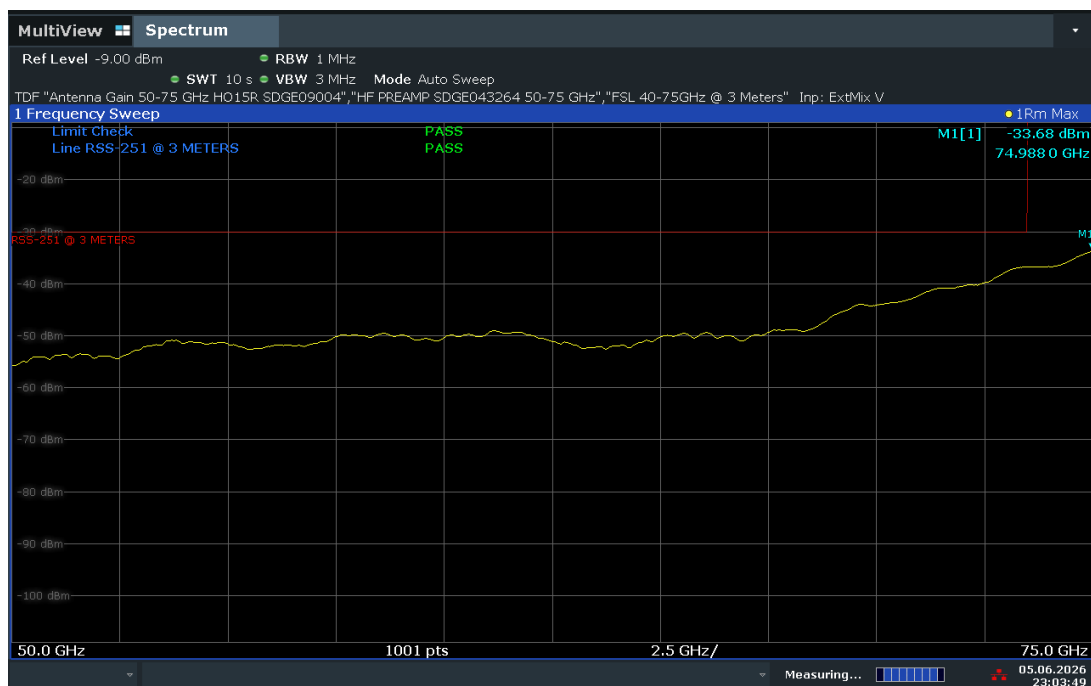
Average Data

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
28320.9538	34.16	53.90	19.74	1000.0	1000.000	131.0	H	90.0	8
28798.7680	53.06	53.90	0.84	1000.0	1000.000	131.0	V	9.0	8
28798.7834	53.00	53.90	0.90	1000.0	1000.000	128.0	V	9.0	8
32720.6411	36.06	53.90	17.84	1000.0	1000.000	142.0	H	186.0	12
34920.9380	36.67	53.90	17.23	1000.0	1000.000	176.0	H	196.0	13
37473.9869	38.07	53.90	15.83	1000.0	1000.000	175.0	H	346.0	14
38629.6849	38.29	53.90	15.61	1000.0	1000.000	125.0	V	6.0	14



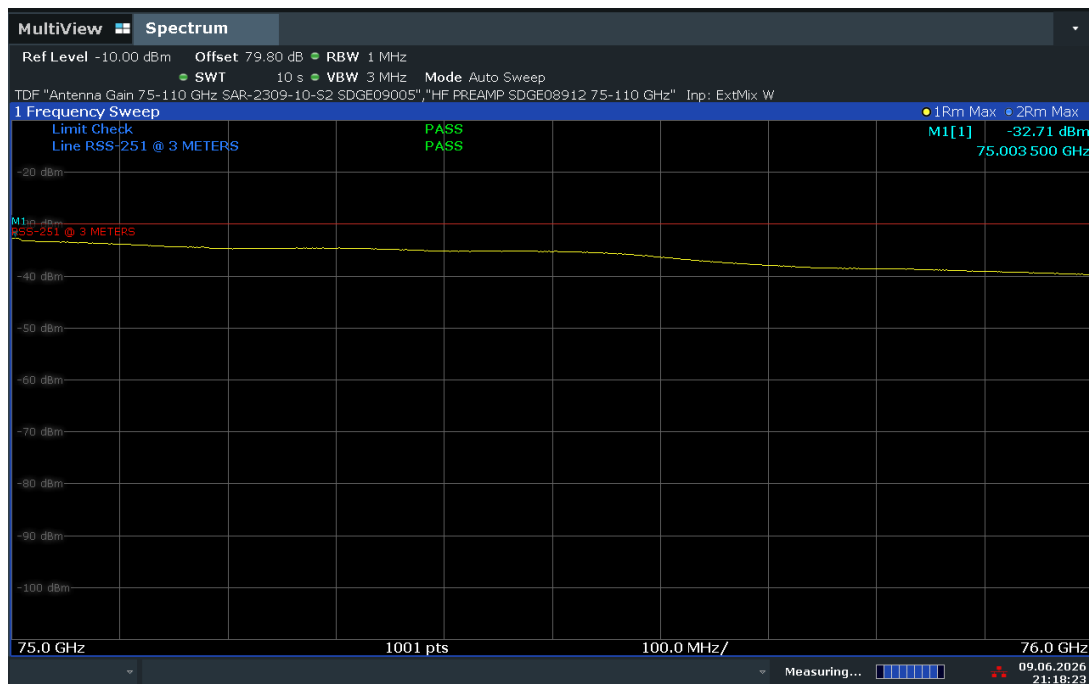
21:06:52 05.06.2026

40-50GHz



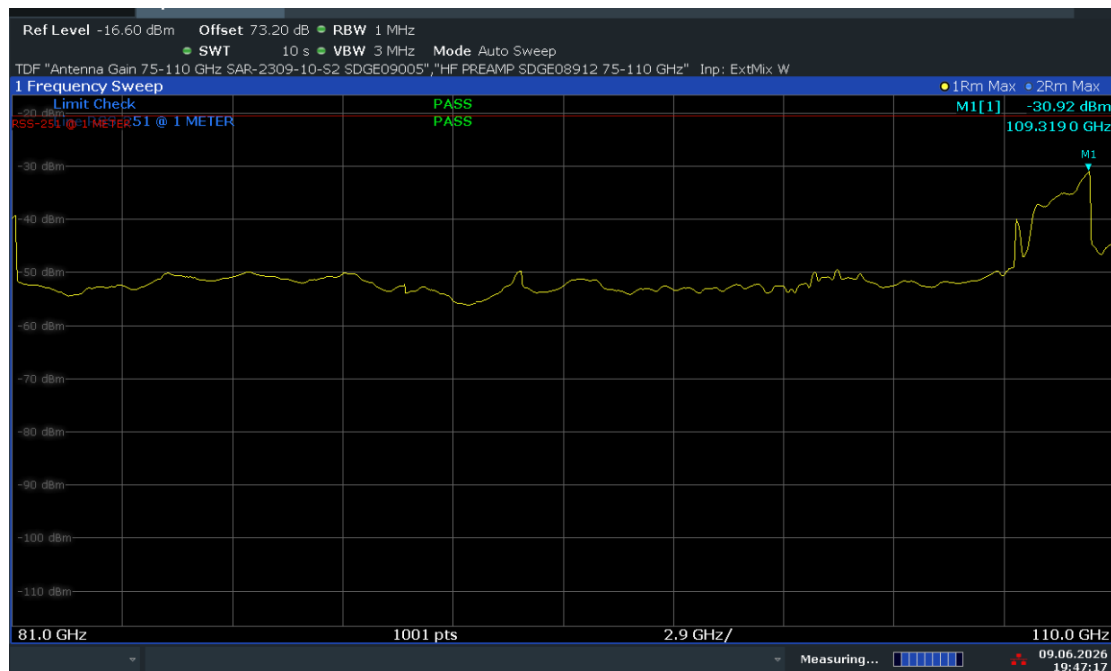
23:03:50 05.06.2026

50 to 75GHz



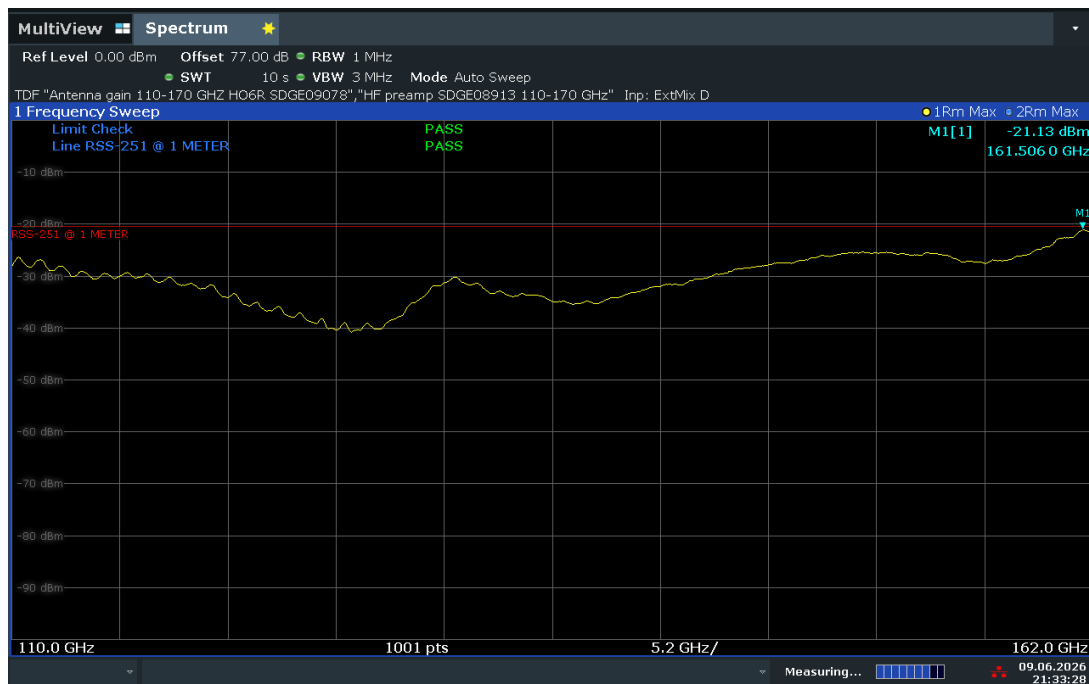
21:18:24 09.06.2026

75-76GHz



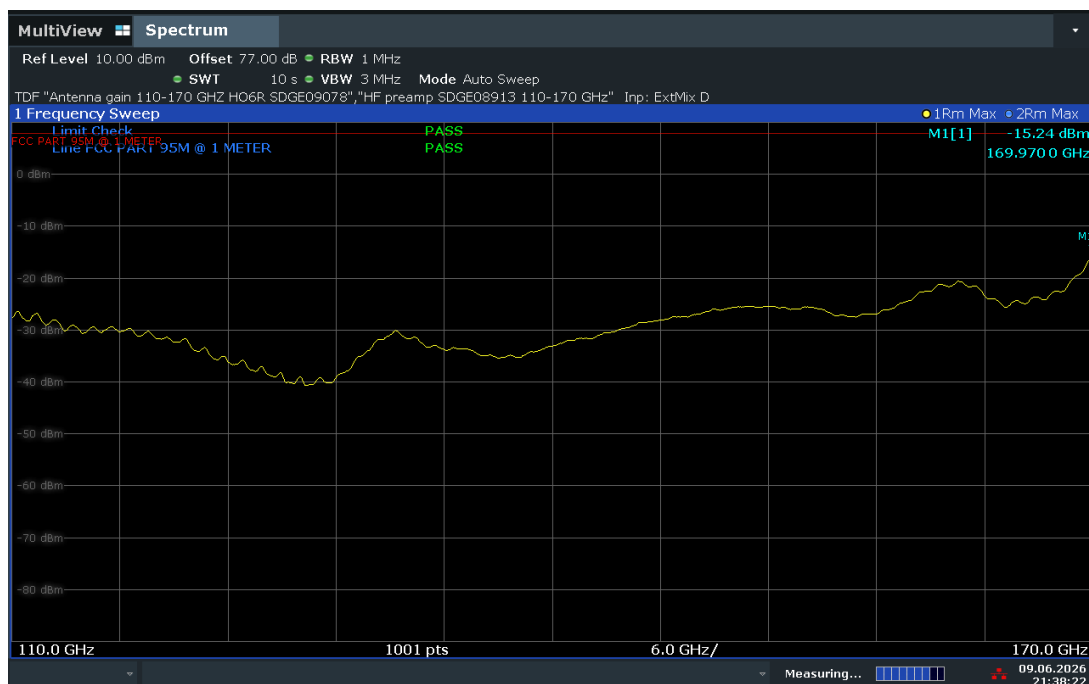
81 to 110GHz

Test note: SN: 212500005 was utilized for this test. This unit is configured with less power in order prevent saturation of the know artifact at 109 GHz. See document (Radar5 SRE Artifact Support Data Rev1) for details.



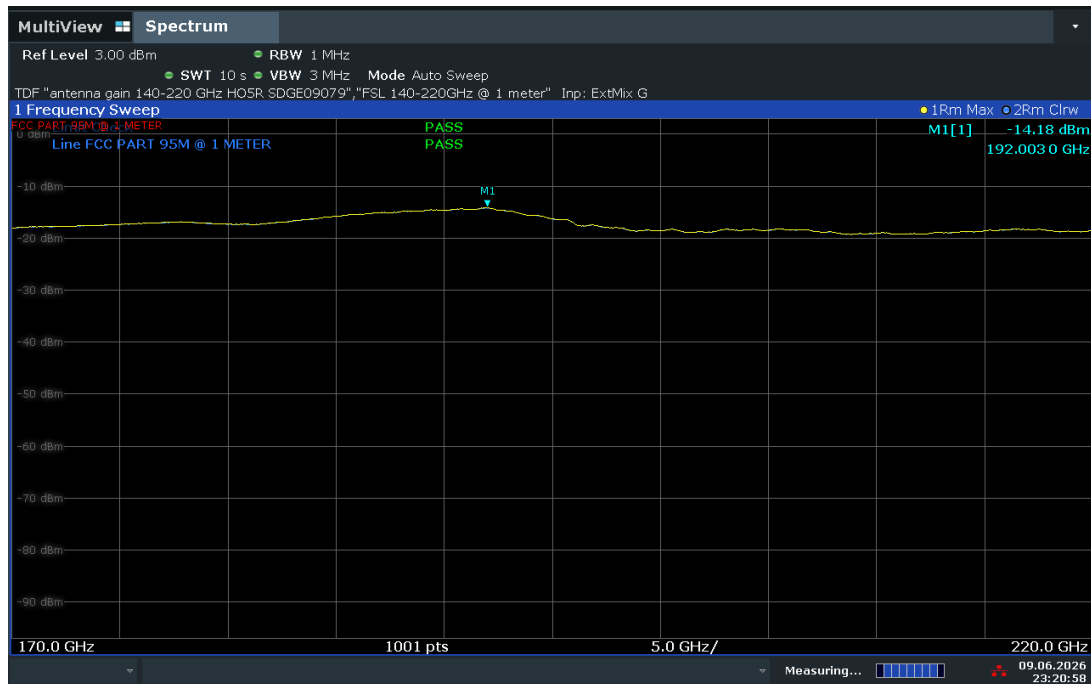
21:33:29 09.06.2026

110 to 162 GHz (ISED Limit)



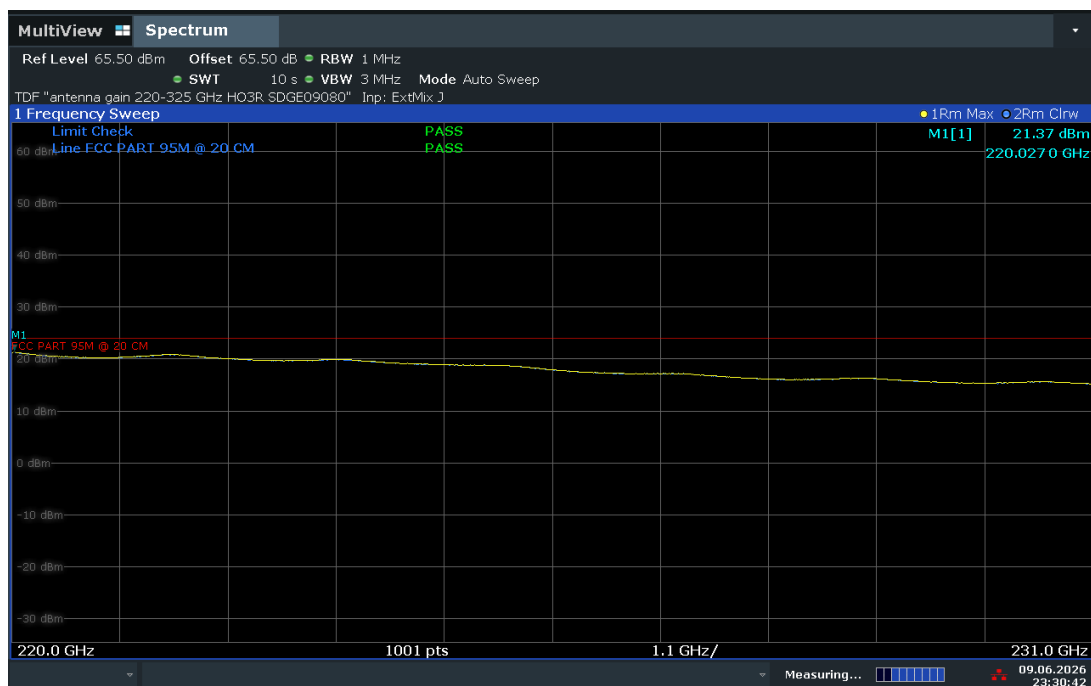
21:38:23 09.06.2026

110 to 170 GHz (FCC Limit)



23:20:59 09.06.2026

170 to 220 GHz



23:30:43 09.06.2026

220 to 231 GHz

2.5 FREQUENCY STABILITY

2.5.1 Specification Reference

Part 2.1055, FCC Part 95 Subpart M §95.3379(b) and RSS-251 Section 11

2.5.2 Standard Applicable

Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation. Equipment is presumed to operate over the temperature range -20 to +50 degrees Celsius with an input voltage variation of 85% to 115% of rated input voltage, unless justification is presented to demonstrate otherwise.

2.5.3 Equipment Under Test and Modification State

Serial No: 20250002 / Default Test Configuration

2.5.4 Date of Test/Initial of test personnel who performed the test

June 11, 2026 / JS

2.5.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility

Ambient Temperature	25.0 °C
Relative Humidity	49.4 %
ATM Pressure	100.1 kPa

2.5.7 Additional Observations

- EUT has no antenna port available. The measurements under this section were performed using radiated measurement method.
- Temperature range used is -20°C to +50°C. During test the EUT spectrum was monitored in the entire temperature range at 10 °C intervals.
- Input voltage variation is not performed as the EUT is powered by 12V battery which is regulated. The battery was fully charged prior to testing.
- RBW is 1 MHz while VBW is 3 MHz
- Detector is Peak
- The OBW function of the Spectrum Analyzer is used for this test. The edges (T1 and T2) were observed verifying they stayed within 76 and 81GHz band during the entire test.

2.5.8 Test Results

Complies. See attached plots.

Voltage (VDC)	Temperature (°C)	Results
12	+50	Stayed in band
	+40	Stayed in band
	+30	Stayed in band
	+20	Stayed in band
	+10	Stayed in band
	0	Stayed in band
	-10	Stayed in band
	-20	Stayed in band
	-30	Stayed in band
	+20	Stayed in band

2.5.9 Test Results



21:44:07 16.06.2026

50°C at 12V(Battery)



20:18:48 16.06.2026

20°C at 12V(Battery)



20:51:36 16.06.2026

-20°C at 12V(Battery)



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Radiated Emission						
68210	EMI Test Receiver	ESW44	103416	Rohde & Schwarz	06/29/25	06/29/26
74136	TUV SSU 010 PLC US	SSU 010	SSU001	TUV SUD UK	04/16/25	07/16/26
69562	7.5-18 GHz Double Ridge Horn Antenna	HWRD 750	00076	Schwarzbeck Mess Elektronik	12/16/25	12/16/27
69563	1-10 GHz Broad-Band Horn Antenna	BBHA 9120 B	00875	Schwarzbeck Mess Elektronik	12/16/25	12/16/27
7611	Signal/Spectrum Analyzer	FSW26	102017	Rohde & Schwarz	02/26/25	07/26/26
1033	Bilog Antenna	3142C	00044556	ETS Lindgren	11/11/25	11/11/27
6628	Loop Antenna	HFH2- Z2335.4711.52	FNr.800.458/2 5	Schwarbeck	07/02/24	07/02/26
9001	Horn antenna (18- 26.5GHz)	HO42S	101	Custom Microwave	09/16/25	09/16/27
9003	Horn antenna (26-40 GHz)	HO28S	102	Custom Microwaves	09/16/25	09/16/27
40815	Pre-amplifier (18-40 GHz)	SLKKa-30-6	15G27	Spacek Labs	11/03/25	11/03/26
7637	Harmonics mixer (40- 60 GHz)	FS-Z60	100009	Rhode & Schwarz	03/20/26	03/20/28
51288	Harmonics mixer (50- 75 GHz)	FS-Z75	100988	Rhode & Schwarz	10/10/25	10/10/27
7633	Harmonics mixer (75- 110 GHz)	HM-110-7	101000	Radiometer Physics	10/02/25	10/02/27
7634	Harmonics mixer (110-170 GHz)	HM-170	0062	Radiometer Physics	10/02/25	10/02/27
7635	Harmonics mixer (170-220 GHz)	HM-220	020022	Radiometer Physics	10/02/25	10/02/27
7632	Harmonics mixer (220-325 GHz)	HM-325	020075	Radiometer Physics	10/02/25	10/02/27
9003	Horn antenna (40-60 GHz)	HO19R	103	Custom Microwaves	Verified by 7611 and corresponding antenna/Active multiplier combination	
9004	Horn antenna (50-75 GHz)	HO15R	104	Custom Microwaves		
30576	Horn antenna (75-110 GHz)	HO10R	13481-01	Sage Millimeter, Inc.		
37874	Horn antenna (110- 170 GHz)	HO6R	HO6R	Custom Microwaves		
9079	Horn antenna (140- 220 GHz)	HO10R	HO5R	Custom Microwaves	Verified by 7611 and corresponding antenna/Active multiplier combination	
30630	Horn antenna (220- 325 GHz)	HO3R	HO3R	Custom Microwaves		
8872	Direct Reading Attenuator (40-60)	STA-60-19-D1	11875-01	Sage Millimeter, Inc.	Verified by 7611 and corresponding antenna/mixer combination	
8860	Direct Reading Attenuator (50-75)	STA-60-15-D1	11466-01	Sage Millimeter, Inc.		
8861	Direct Reading Attenuator (75-110)	STA-60-10-D1	11466-01	Sage Millimeter, Inc.		



ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
9078	Horn antenna (110-170 GHz)	HO6R	HO6R	Custom Microwaves	Verified by 7611 and corresponding direct reading attenuator/active multiplier combination	
9082	Horn antenna (140-220 GHz)	HO5R	N/A	Custom Microwaves		
9080	Horn antenna (220-325 GHz)	HO3R	N/A	Custom Microwaves		
8872	Direct Reading Attenuator (40-60	STA-60-19-D1	11875-01	Sage Millimeter, Inc.	Verified by 7611 and corresponding antenna/mixer combination	
8860	Direct Reading Attenuator (50-75	STA-60-15-D1	11466-01	Sage Millimeter, Inc.		
8861	Direct Reading Attenuator (75-110	STA-60-10-D1	11466-01	Sage Millimeter, Inc.		
8919	Direct Reading Attenuator (90-140	STA-60-08-D1	12605-01	Sage Millimeter, Inc.		
8909	Direct Reading Attenuator (140-220	STA-60-05-D1	12020-01	Sage Millimeter, Inc.		
8873	Active Multiplier (40-60 GHz)	AMC-19-RFH00	124	Millitech, Inc.		
8914	Active Multiplier (50-75 GHz)	AMC-15-RFH00	283	Millitech, Inc.		
8915	Active Multiplier (75-110 GHz)	AMC-10-RFH00	606	Millitech, Inc.		
8920	Active Multiplier (90-140 GHz)	AMC-08-RFH00	58	Millitech, Inc.		
8909	Active Multiplier (140-220 GHz)	MCA-05-150096	13	Millitech, Inc.		
Miscellaneous						
43003	True RMS Multimeter	85 III	69880143	Fluke	10/07/25	10/07/26
6805	Environmental Chamber	ESL-4CA	18021	Espec	04/29/26	04/29/27
7619	Temp/Humidity Sensor	iBTHX-W	15050268	Omega	06/22/25	06/22/26
-	Test Software	EMC32	V10.50.40	Rhode & Schwarz	N/A	

3.2 MEASUREMENT UNCERTAINTY

Calculation of Measurement Uncertainty per CISPR 16-4-2:2011 with Corr. 1

3.2.1 Radiated Measurements (9kHz to 30MHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.44 dB	Normal, k=2	2.000	0.22	0.05
4	Receiver sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	0.00 dB	Triangular	2.449	0.00	0.00
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.00 dB	Rectangular	1.732	0.00	0.00
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.45 dB		
Expanded uncertainty			Normal, k=2	4.91 dB		

3.2.2 Radiated Emission Measurements (30MHz to 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.58 dB	Normal, k=2	2.000	0.29	0.08
4	Receiver sinewave accuracy	0.15 dB	Normal, k=2	2.000	0.08	0.01
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.99 dB	Triangular	2.449	1.63	2.65
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.57 dB	Rectangular	1.732	0.33	0.11
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.97 dB		
Expanded uncertainty			Normal, k=2	5.94 dB		

3.2.3 Radiated Emission Measurements (Above 1GHz)

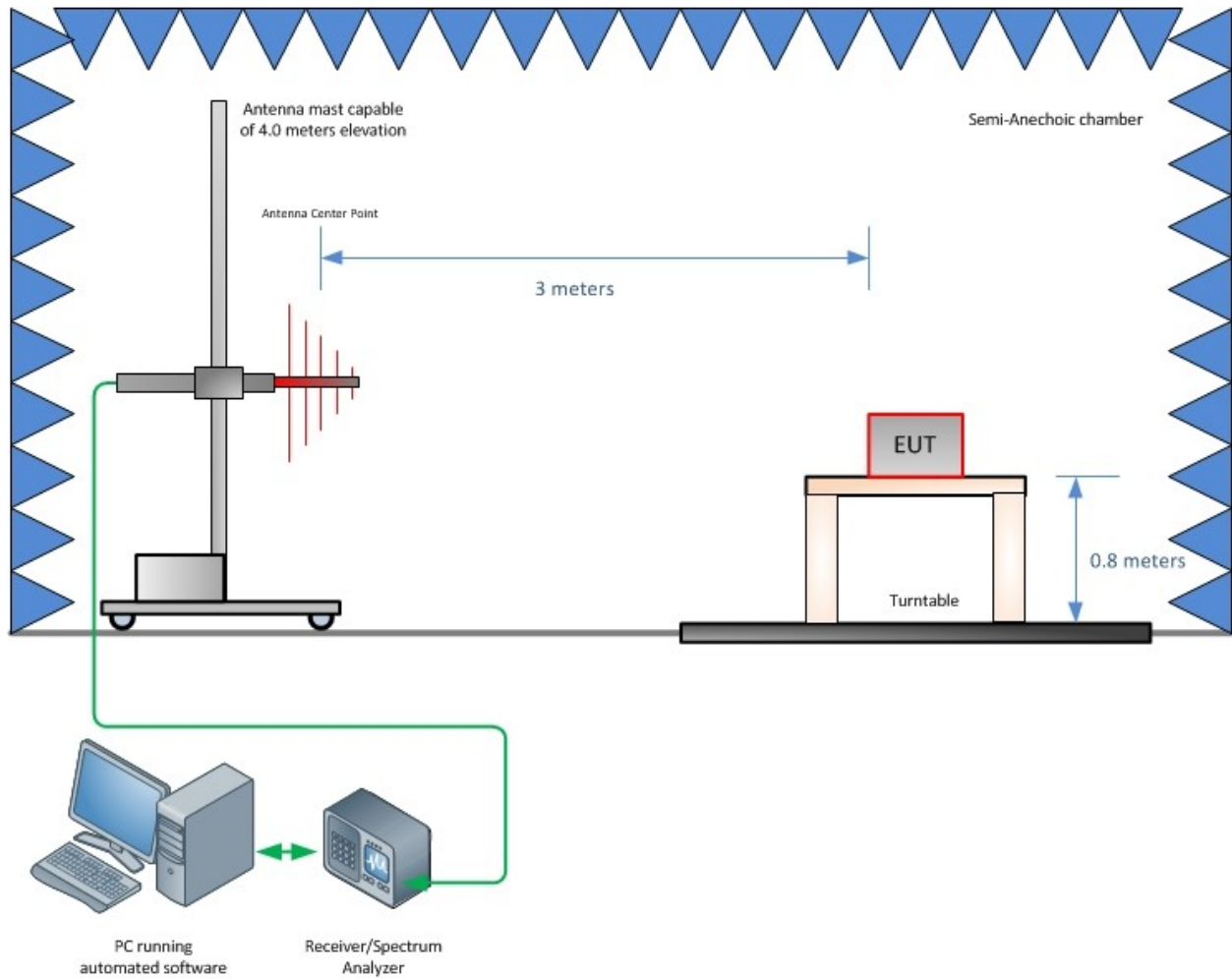
	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.75 dB	Normal, k=2	2.000	0.38	0.14
4	Receiver sinewave accuracy	0.45 dB	Normal, k=2	2.000	0.23	0.05
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.25 dB	Triangular	2.449	1.33	1.76
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.77 dB	Rectangular	1.732	0.44	0.20
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.85	dB	
Expanded uncertainty			Normal, k=2	5.70	dB	



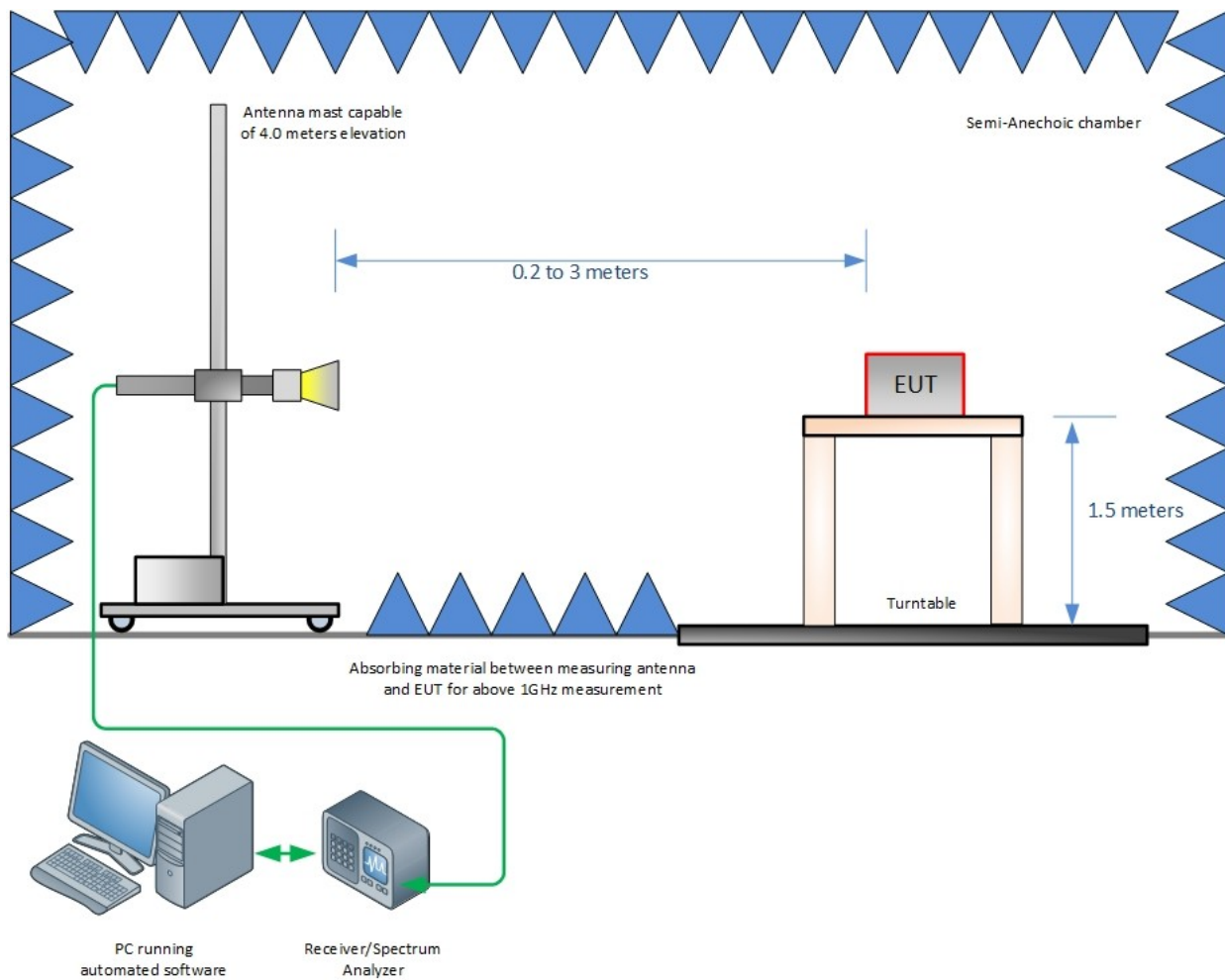
SECTION 4

DIAGRAM OF TEST SETUP

4.1 TEST SETUP DIAGRAM



Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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