

TEST REPORT

Report Number : 15496249-E20V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3257 (Parent Model)
A3525, A3526, A3527 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8950A (Parent Model)
BCG-E8960A, BCG-E8961A, BCG-E8962A (Variant Models)

IC : 579C-E8950A (Parent Model)
579C-E8960A, 579C-E8961A, 579C-E8962A (Variant Models)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART F §15.519
ISED RSS-220 ISSUE 1 AMENDMENT 1

Date Of Issue:
JULY 28, 2025

Prepared by:
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/24/2025	Initial Issue	Darren Aung
V2	7/28/2025	Updated Sections 8, 9.3, 9.5 & 9.7.1	Thu Chan

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3257 (Parent Model) A3525, A3526, A3527 (Variant Models)	
Brand	APPLE	
FCC ID	BCG-E8950A (Parent Model) BCG-E8960A, BCG-E8961A, BCG-E8962A (Variant Models)	
IC	579C-E8950A (Parent Model) 579C-E8960A, 579C-E8961A, 579C-E8962A (Variant Models)	
EUT Description	SMARTPHONE	
SERIAL NUMBER	K4X77JCFCG, LX9917GX34, MVW3GVPQJW, LLPK4DM205	
SAMPLE RECEIPT DATE	MARCH 26, 2025 ; MAY 12, 2025 ; JUNE 26, 2025	
DATE TESTED	APRIL 24, 2025 TO JULY 24, 2025	
Applicable Standards	FCC 47 CFR PART 15 SUBPART F §15.519 ISED RSS-220 ISSUE 1 AMENDMENT 1	
Test Results	COMPLIES	
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.		
Approved & Released By:	Prepared & Reviewed By:	
		
Thu Chan Staff Engineer UL Verification Services, Inc.	Darren Aung Laboratory Engineer Associate UL Verification Services, Inc.	

2. TEST RESULTS SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.4
15.503 & 15.519 (b)	RSS-220 Sect. 2	-10 dB BW	Complies	ANSI C63.10 Section 10.1
15.519 (c) & (e)	RSS-220 Sect. 4 (c) & 5.3.1 (d)	Pk Power & Max Avg Emissions	Complies	ANSI C63.10 Section 10.3
15.519 (a)(1)	RSS-220 Sect. 5.3.1 (b)	Cessation Time	Complies	None
15.519 (c) & 15.209 (a)	RSS-220 Sect. 3.4	Emissions Below 960 MHz	Complies	ANSI C63.10 Section 10.2
15.519 (c) & (d)	RSS-220 Sect. 5.3.1 (d) & (e)	Emissions Above 960 MHz	Complies	ANSI C63.10 Section 10.3
15.207 (a)	RSS-Gen 8.8	AC Power Line Conducted Emissions	Complies	ANSI C63.10 Section 6.2

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- CFR Title 47 Part 15 Subpart F
- KDB 393764 D01 UWB FAQ v02r01
- ISED RSS-220 Issue 1 Amendment 1
- ISED RSS GEN Issue 5 Amendment 2

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020.

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Ct, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{LAB}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{EIRP (dBm)} &= \text{Meter Reading (dBm)} + \text{Antenna Factor (dB/m)} + \text{Pre-Amp Gain/Cbl Loss (dB)} \\ &\quad + \text{dBm-to-dBm Unit Conversion Factor @ 3m} \\ &= -60 \text{ dBm} + 28 \text{ dB/m} + (-27) \text{ dB} + 11.8 \\ &= -47.2 \text{ dBm}\end{aligned}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Final Voltage (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{LISN Insertion Loss (dB)} + \text{Cable Loss (dB)} \\ &\quad + \text{Limiter Factor (dB)} \\ &= 42.19 \text{ dBuV} + 0.1 \text{ dB} + 0 \text{ dB} + 9.4 \text{ (dB)} \\ &= 51.69 \text{ dBuV}\end{aligned}$$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

The EUT has a UWB transceiver with two integral antennas (ANT1 = ANT12/UWB1, ANT2 = ANT6/shared UWB0). ANT1 only operates on 8 GHz (Channel 9). ANT2 operates on 6.5 GHz (Channel 5) and 8 GHz (Channel 9). The antennas are not user accessible.

6.2. MAXIMUM OUTPUT POWER

Highest Average Powers based on ANT/CH are listed as follows:

ANT	CH	CONFIG	PL	Average Power (dBm EIRP)
1	9	405	4093	-42.35
2	5	405	4093	-42.30
2	9	409	4093	-42.40

6.3. MODULATION

The UWB signal is BPSK pulsed modulated signal.

6.4. SOFTWARE AND FIRMWARE

The Software and Firmware version used at test is 23A256.

7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Laptop + Adapter	Apple	MacBook Pro	XX1T6XR9RT
Brisket – USB Adapter	Apple	Brisket UART Cable Pigtail	F2010M00004694
USB-C Power Adapter	Apple	A2305	ULSW-ED7B4170-6538-4A14-9C59-2EC2D491D6FE
USB-C Ethernet Adapter	Ugreen	CM475	60600
USB-A to USB-C adapter	Anker	A8731	XX02NCP6GR
USB-A Cable with Repeater	Unitek	n/a	n/a

I/O CABLES

I/O CABLES					
Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
AC	1	AC	Un-shielded	2	N/A
USB	1	USB	Un-shielded	1	N/A

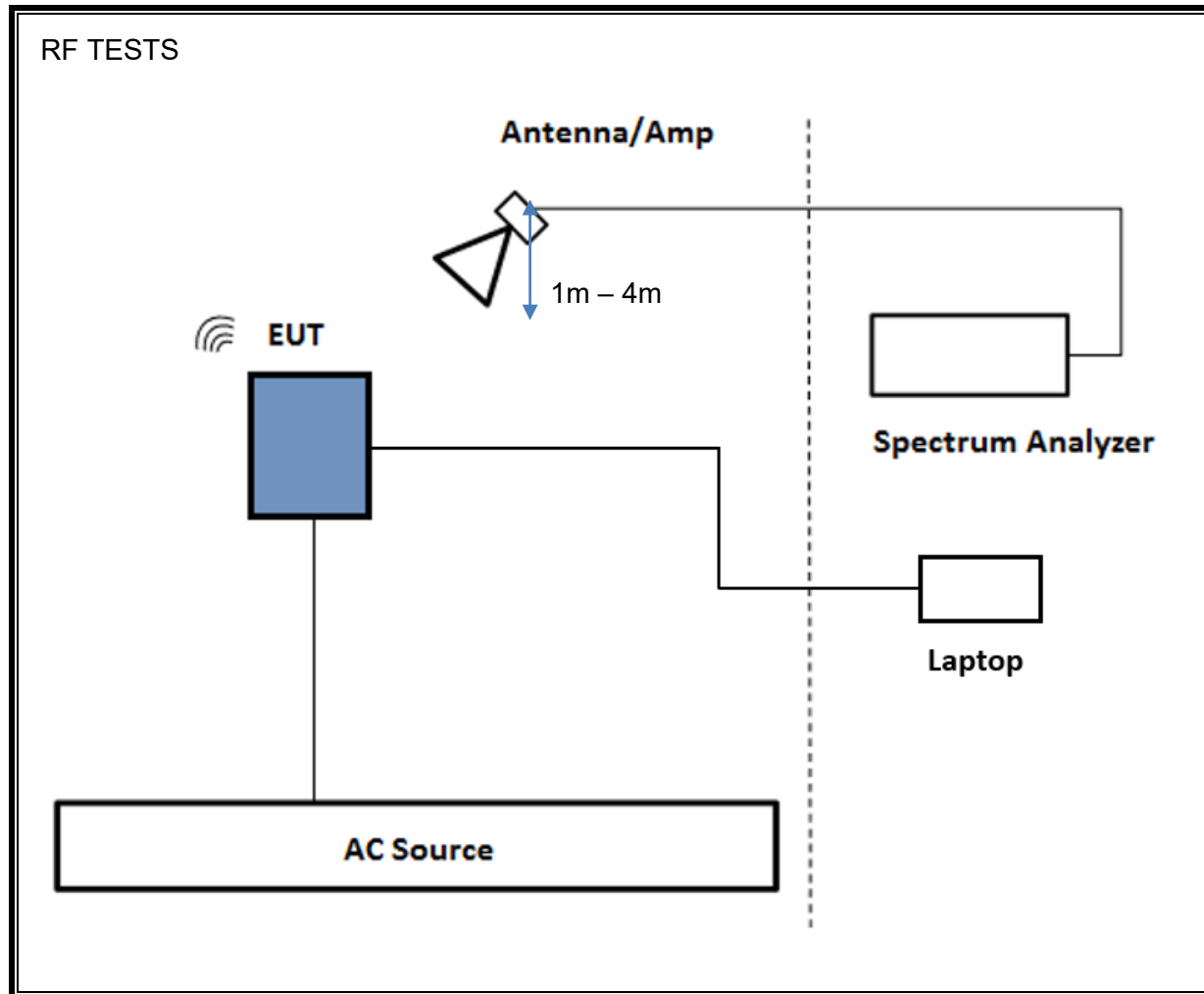
TEST SETUP

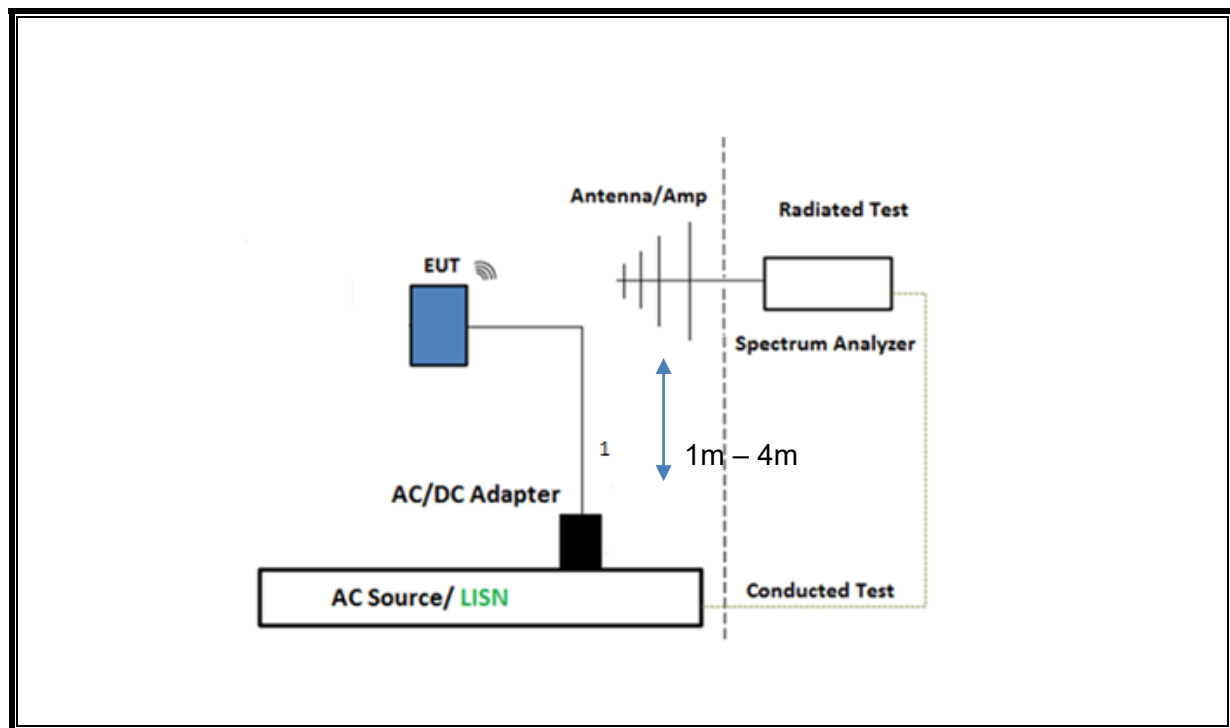
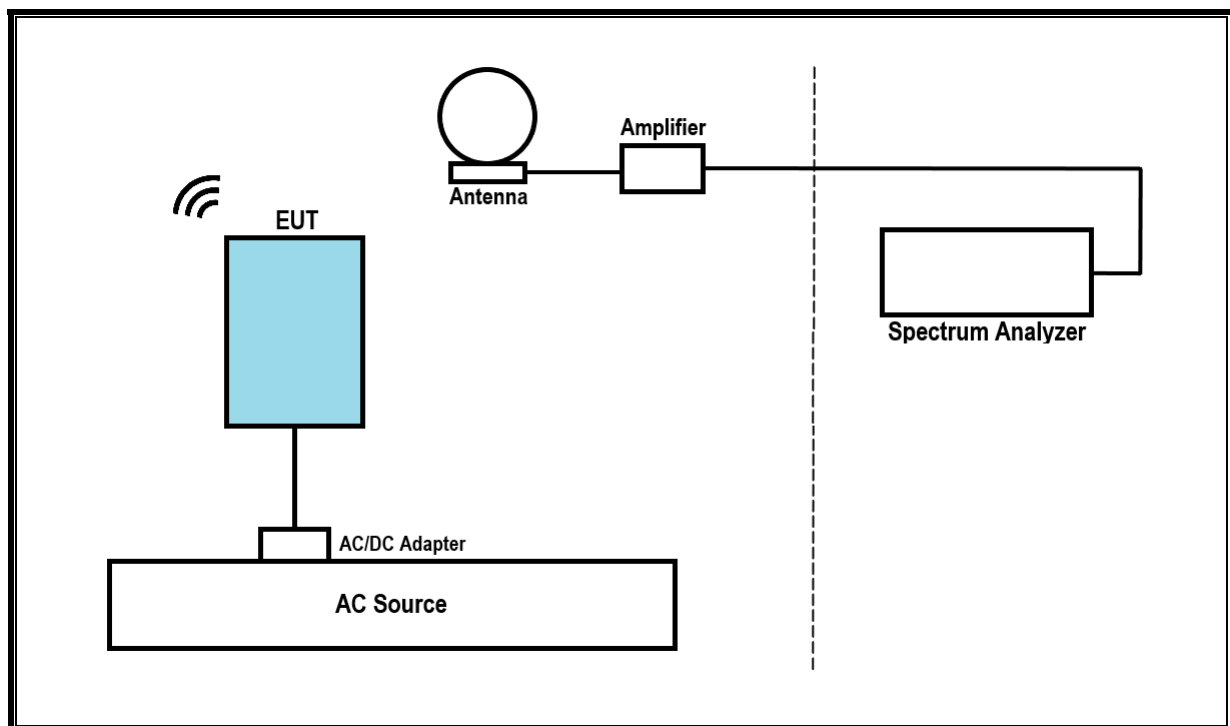
The EUT was examined at pre-scan test using a fundamental frequency in the portrait (z), landscape (y), and flatbed (x) position and the worst-case orientation of individual ANT/CH/CONFIG setting was determined for final spurious emission measurement. All selected configs are used for the Ant/Ch settings that were tested at default power (0 dBm), and Config 9 Payload 125 was chosen for unwanted emission test with CH9 on Ant 1 and both CH5 and CH9 on Ant 2 by setting at maximum output power higher than 0 dBm.

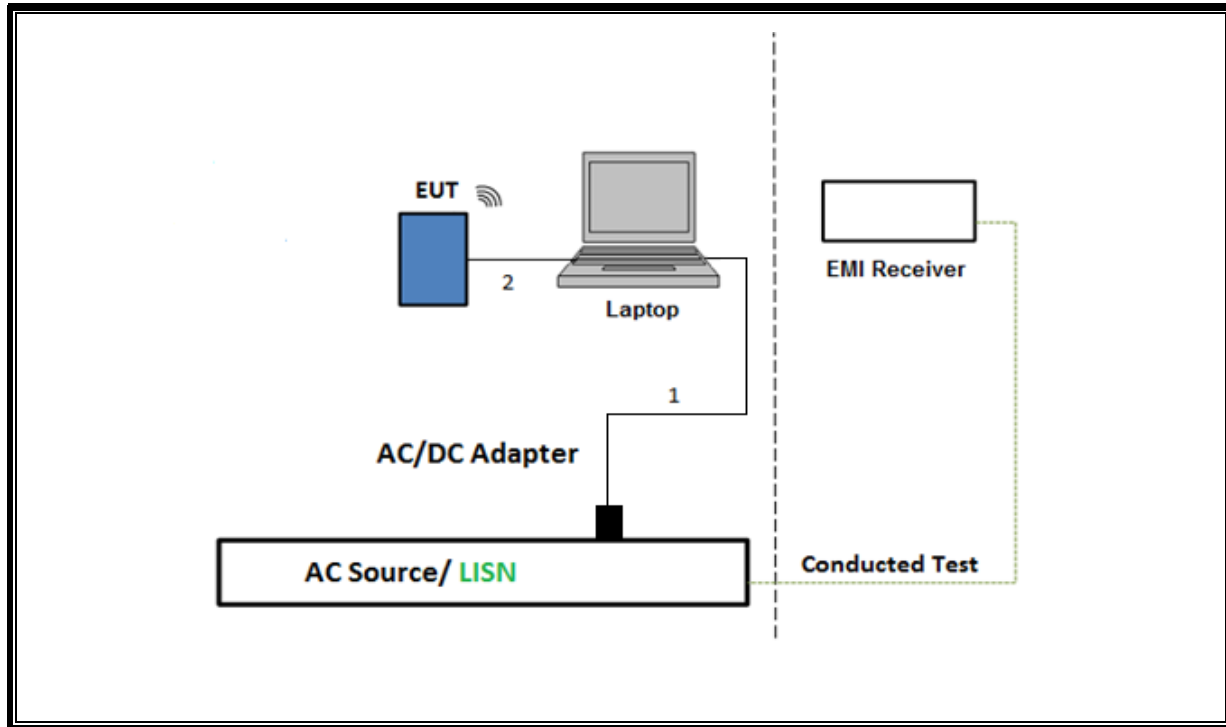
Measurements of spurious average emissions were made with the device operating at a higher power than production power to ensure compliance. Measurements of the in-band signal (peak and average emissions, 10 dBc bandwidth, 99% bandwidth) were all made at the production power settings.

EUT was connected to AC power adapter in all test cases except 0.96 – 5 GHz, 1164 – 1240 MHz, and 1559 – 1610 MHz due to noise unrelated to the UWB signal from the device.

For simultaneous transmission on the same antenna of multiple channels in the UWB and WiFi, no noticeable new emission was found.

SETUP DIAGRAM FOR Above 1GHz TESTS

SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST**SETUP DIAGRAM FOR Below 30MHz****TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**



8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment					
Description	Manufacturer	Model	Local ID	Cal Date	Cal Due Date
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206806	3/24/2025	3/31/2027
RF Filter Box, 1-18GHz	UL-FR1	Silver Box	173233	4/14/2025	4/30/2026
EMI Test Receiver	Rohde & Schwarz	ESW44	235366	2/14/2025	2/28/2026
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	29637	9/10/2024	9/30/2026
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	29640	9/10/2024	9/30/2026
Link File, @3m, 9kHz-1000MHz Hybrid Path Loss	UL-FR1	Port 0 Factors	212011	2/26/2025	2/28/2026
Antenna, Broadband Hybrid 30 MHz - 3 GHz	Sunol Sciences Corp.	JB3	202301	2/12/2025	2/28/2027
Antenna, Horn 18-26.5GHz	A.R.A	MWH-1826/B	81139	8/8/2023	8/31/2025
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Ampical	AMP18G26.5-60	220194	4/9/2025	4/30/2026
Antenna, Horn 26.5-40GHz	A.R.A	MWH-2640/B	81105	8/8/2023	8/31/2025
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Ampical	AMP26G40-65	220193	4/9/2025	4/30/2026
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	171646	2/18/2025	2/28/2026
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	1/28/2025	1/31/2026
Transient Limiter	TE	TBFL1	207996	9/30/2024	9/30/2025
Radiated Software	UL	UL EMC	Rev 9.5 2024-05-01		
AC Line Conducted Software	UL	UL EMC	Rev 9.5 2023-03-03		

9. APPLICABLE LIMITS AND TEST RESULTS

9.1 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

ANSI C63.10 Section 6.9.3

The transmitter output is connected to a spectrum analyzer. The RBW is in the range of 1% to 5% of the OBW bandwidth. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.

Tabulated data provides the test results of all available test configurations. The plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT2, CONFIG 9, Payload 125 on CH5 and CH9 bandwidth measurement on are presented and same measurement settings apply to the rest of the test configurations.

RESULTS

Employee IDs: 26857, 24943, 26051

Location: Chamber 02-RDE-F, 05-RDE-B

Test Date: 4/24/2025 to 7/22/2025

ANT1, CH9

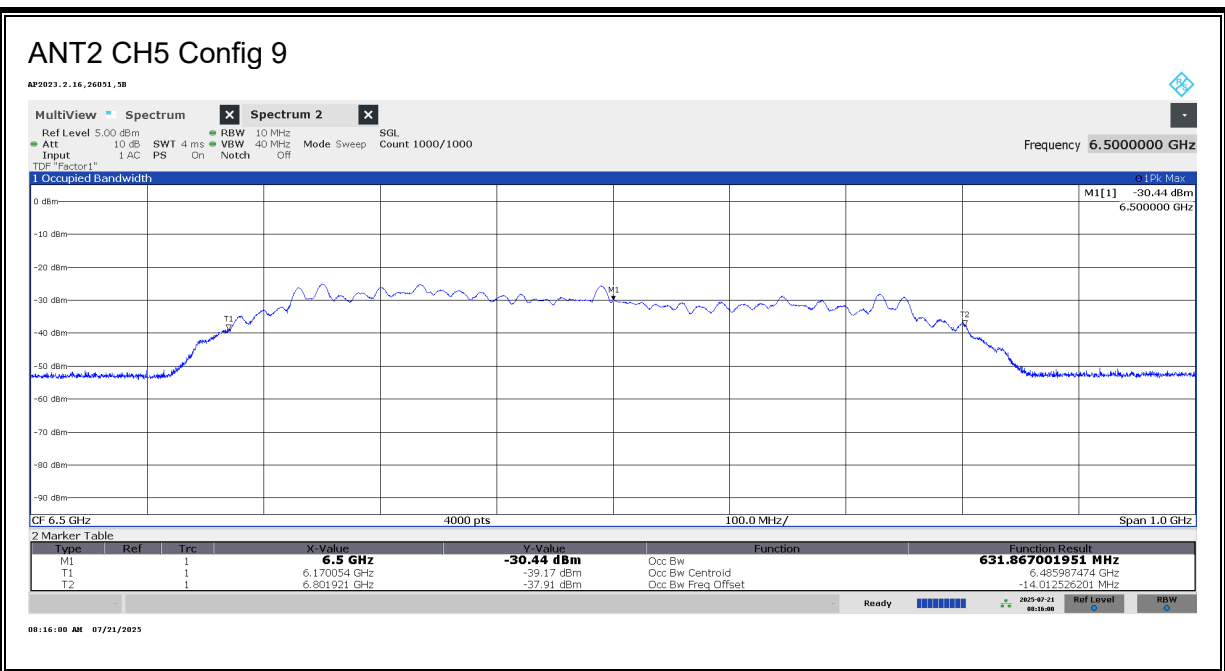
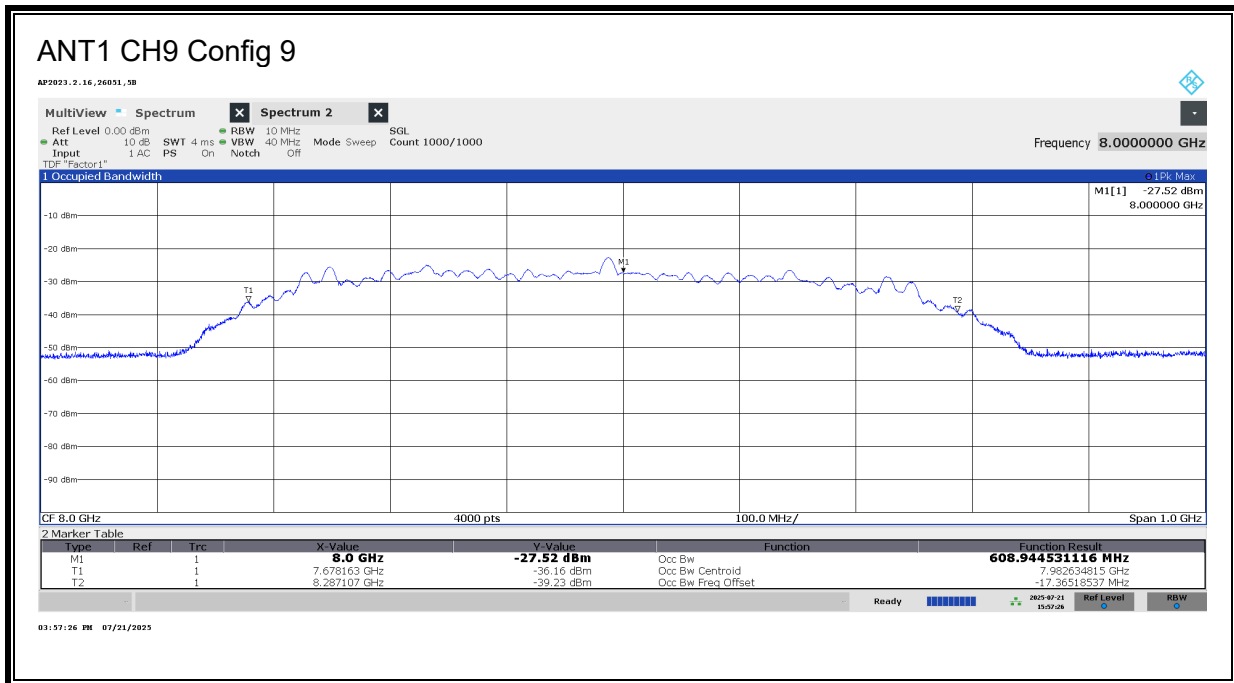
ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	99% BW (MHz)
1	9	0	25	Flatbed	V	613.235
1	9	1	45	Flatbed	V	613.120
1	9	6	125	Flatbed	V	623.129
1	9	9	125	Flatbed	V	608.945
1	9	10	25	Flatbed	V	614.980
1	9	11	25	Flatbed	V	614.899
1	9	11	65	Flatbed	V	614.876
1	9	101	25	Flatbed	V	615.937
1	9	101	65	Flatbed	V	615.151
1	9	102	25	Flatbed	V	619.904
1	9	102	65	Flatbed	V	615.074
1	9	103	25	Flatbed	V	614.708
1	9	103	125	Flatbed	V	623.031
1	9	202	625	Flatbed	V	741.003
1	9	402	445	Flatbed	V	680.769
1	9	501	0	Flatbed	V	602.272
1	9	503	0	Flatbed	V	611.586
1	9	601	0	Flatbed	V	622.625
1	9	605	0	Flatbed	V	620.881
1	9	607	0	Flatbed	V	622.131
1	9	701	0	Flatbed	V	627.337
1	9	702	0	Flatbed	V	621.175
1	9	703	0	Flatbed	V	625.328
1	9	704	0	Flatbed	V	636.310
1	9	705	0	Flatbed	V	620.361
1	9	706	0	Flatbed	V	621.803
1	9	405	4093	Flatbed	V	686.168
1	9	407	4093	Flatbed	V	672.931
1	9	409	4093	Flatbed	V	689.380
1	9	801	0Gap0	Flatbed	V	615.806
1	9	801	0Gap64	Flatbed	V	600.329
1	9	802	0	Flatbed	V	603.047
1	9	803	0	Flatbed	V	601.075
1	9	804	0Gap0	Flatbed	V	622.448
1	9	804	0Gap64	Flatbed	V	616.067
1	9	805	0	Flatbed	V	615.654
1	9	806	0	Flatbed	V	608.031
1	9	807	0Gap0	Flatbed	V	620.573
1	9	807	0Gap64	Flatbed	V	621.235
1	9	808	0	Flatbed	V	620.498
1	9	809	0	Flatbed	V	620.494
1	9	80A	0Gap0	Flatbed	V	622.351
1	9	80A	0Gap64	Flatbed	V	621.666
1	9	80B	0	Flatbed	V	621.684
1	9	80C	0	Flatbed	V	621.737

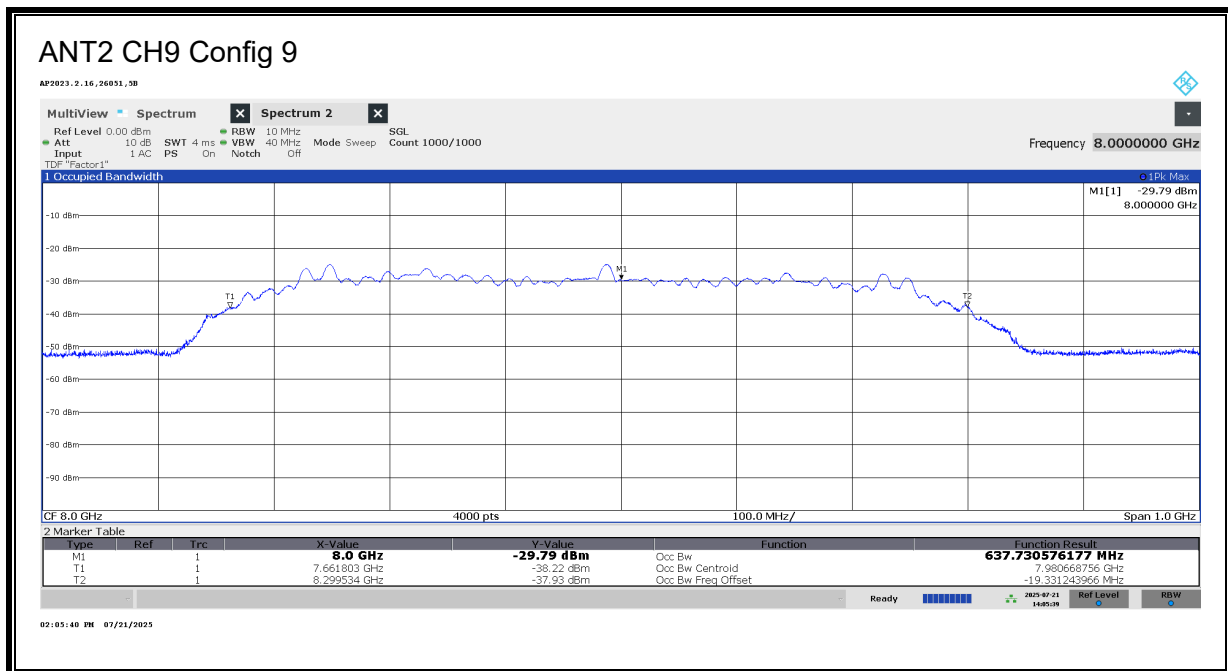
ANT2, CH5

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	99% BW (MHz)
2	5	0	25	Landscape	H	595.417
2	5	1	45	Landscape	H	594.211
2	5	6	125	Landscape	H	609.892
2	5	9	125	Landscape	H	631.867
2	5	10	25	Landscape	H	596.523
2	5	11	25	Landscape	H	594.561
2	5	11	65	Landscape	H	596.679
2	5	101	25	Landscape	H	594.582
2	5	101	65	Landscape	H	596.004
2	5	102	25	Landscape	H	594.644
2	5	102	65	Landscape	H	595.821
2	5	103	25	Landscape	H	596.677
2	5	103	125	Landscape	H	601.424
2	5	202	625	Landscape	H	720.156
2	5	402	445	Landscape	H	667.930
2	5	501	0	Landscape	H	578.534
2	5	503	0	Landscape	H	577.635
2	5	601	0	Landscape	H	598.206
2	5	605	0	Landscape	H	591.368
2	5	607	0	Landscape	H	591.723
2	5	701	0	Landscape	H	595.556
2	5	702	0	Landscape	H	591.907
2	5	703	0	Landscape	H	589.167
2	5	704	0	Landscape	H	625.026
2	5	705	0	Landscape	H	608.727
2	5	706	0	Landscape	H	609.678
2	5	405	4093	Landscape	H	714.746
2	5	407	4093	Landscape	H	688.469
2	5	409	4093	Landscape	H	708.612
2	5	801	0Gap0	Landscape	H	602.483
2	5	801	0Gap64	Landscape	H	626.911
2	5	802	0	Landscape	H	626.678
2	5	803	0	Landscape	H	624.431
2	5	804	0Gap0	Landscape	H	614.854
2	5	804	0Gap64	Landscape	H	633.753
2	5	805	0	Landscape	H	626.854
2	5	806	0	Landscape	H	601.044
2	5	807	0Gap0	Landscape	H	601.044
2	5	807	0Gap64	Landscape	H	601.413
2	5	808	0	Landscape	H	600.663
2	5	809	0	Landscape	H	600.643
2	5	80A	0Gap0	Landscape	H	613.781
2	5	80A	0Gap64	Landscape	H	610.931
2	5	80B	0	Landscape	H	610.405
2	5	80C	0	Landscape	H	609.839

ANT2, CH9

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	99% BW (MHz)
2	9	0	25	Landscape	H	594.552
2	9	1	45	Landscape	H	593.760
2	9	6	125	Landscape	H	604.920
2	9	9	125	Landscape	H	637.731
2	9	10	25	Landscape	H	592.950
2	9	11	25	Landscape	H	591.984
2	9	11	65	Landscape	H	592.108
2	9	101	25	Landscape	H	591.764
2	9	101	65	Landscape	H	591.647
2	9	102	25	Landscape	H	591.862
2	9	102	65	Landscape	H	610.094
2	9	103	25	Landscape	H	610.397
2	9	103	125	Landscape	H	610.641
2	9	202	625	Landscape	H	718.469
2	9	402	445	Landscape	H	672.459
2	9	501	0	Landscape	H	619.917
2	9	503	0	Landscape	H	618.073
2	9	601	0	Landscape	H	619.441
2	9	605	0	Landscape	H	610.534
2	9	607	0	Landscape	H	618.308
2	9	701	0	Landscape	H	621.204
2	9	702	0	Landscape	H	622.005
2	9	703	0	Landscape	H	617.007
2	9	704	0	Landscape	H	633.662
2	9	705	0	Landscape	H	624.237
2	9	706	0	Landscape	H	627.447
2	9	405	4093	Landscape	H	708.284
2	9	407	4093	Landscape	H	691.232
2	9	409	4093	Landscape	H	707.010
2	9	801	0Gap0	Landscape	H	620.398
2	9	801	0Gap64	Landscape	H	629.306
2	9	802	0	Landscape	H	631.667
2	9	803	0	Landscape	H	629.909
2	9	804	0Gap0	Landscape	H	618.624
2	9	804	0Gap64	Landscape	H	637.194
2	9	805	0	Landscape	H	636.975
2	9	806	0	Landscape	H	631.422
2	9	807	0Gap0	Landscape	H	617.020
2	9	807	0Gap64	Landscape	H	619.502
2	9	808	0	Landscape	H	618.272
2	9	809	0	Landscape	H	617.583
2	9	80A	0Gap0	Landscape	H	619.483
2	9	80A	0Gap64	Landscape	H	620.582
2	9	80B	0	Landscape	H	619.748
2	9	80C	0	Landscape	H	620.619

99% BW



9.2 OPERATING BANDWIDTH

LIMITS

FCC

§15.503 (a) *UWB bandwidth*. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M .

§15.503 (b) *Center frequency*. The center frequency, f_C , equals $(f_H + f_L)/2$.

§15.503 (c) *Fractional bandwidth*. The fractional bandwidth equals $2(f_H - f_L)/(f_H + f_L)$.

§15.503 (d) *Ultra-wideband (UWB) transmitter*. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

§15.519 (b) The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

RSS-220

Section 2 A *UWB device* is an intentional radiator that has either a *-10 dB bandwidth* of at least 500 MHz or a *-10 dB fractional bandwidth* greater than 0.2.

Section 5.1 (a) The *-10 dB bandwidth* of the device shall be totally contained in the band 3.1-10.6 GHz.

“-10 dB bandwidth B_{-10} ” and “-10 dB fractional bandwidth μ_{-10} ” are defined as follows:

$$B_{-10} = f_H - f_L$$

$$\mu_{-10} = B_{-10}/f_C$$

where:

f_M is the frequency of maximum UWB transmission;

f_H is the highest frequency at which the power spectral density of the UWB transmission is -10 dB relative to f_M ;

f_L is the lowest frequency at which the power spectral density of the UWB transmission is -10 dB relative to f_M ; and

$f_C = (f_H + f_L)/2$ is the centre frequency of the -10 dB bandwidth.

TEST PROCEDURE

ANSI C63.10 Clause 10.1

RSS-220 Section 2 of the Annex

Tabulated data provides the test results of all available test configurations. The plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT2, CONFIG 9, Payload 125 on CH5 and CH9 bandwidth measurement on are presented and same measurement settings apply to the rest of the test configurations.

RESULTS

Employee IDs: 26857, 24943, 26051

Location: Chamber 02-RDE-F, 05-RDE-B

Test Date: 4/24/2025 to 7/22/2025

ANT1, CH9

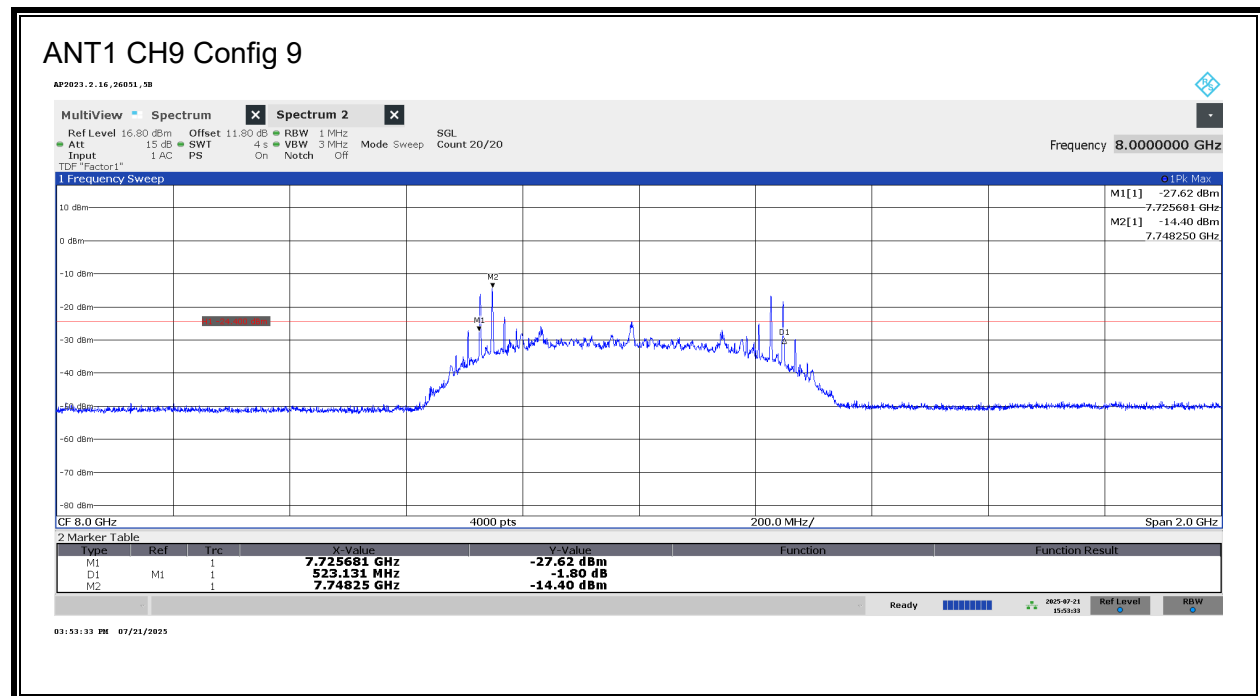
ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	FM (GHz)	FL (GHz)	FH (GHz)	FC (GHz)	OBW (MHz)	Min. OBW (MHz)	OBW Margin (MHz)	OBW Pass/Fail
1	9	0	25	Flatbed	V	7.7478	7.7242	8.2503	7.9872	526.132	500	26.132	P
1	9	1	45	Flatbed	V	7.7483	7.7242	8.2503	7.9872	526.132	500	26.132	P
1	9	6	125	Flatbed	V	7.7477	7.7251	8.2492	7.9872	524.131	500	24.131	P
1	9	9	125	Flatbed	V	7.7483	7.7257	8.2488	7.9872	523.13	500	23.131	P
1	9	10	25	Flatbed	V	8.2262	7.7241	8.2507	7.9874	526.632	500	26.632	P
1	9	11	25	Flatbed	V	7.7483	7.7241	8.2502	7.9872	526.132	500	26.132	P
1	9	11	65	Flatbed	V	8.2267	7.7241	8.2502	7.9872	526.132	500	26.132	P
1	9	101	25	Flatbed	V	7.7477	7.7241	8.2502	7.9872	526.132	500	26.132	P
1	9	101	65	Flatbed	V	7.7477	7.7246	8.2502	7.9874	525.631	500	25.631	P
1	9	102	25	Flatbed	V	8.2263	7.7247	8.2493	7.9870	524.631	500	24.631	P
1	9	102	65	Flatbed	V	8.2267	7.7251	8.2502	7.9877	525.131	500	25.131	P
1	9	103	25	Flatbed	V	8.2267	7.7256	8.2502	7.9879	524.631	500	24.631	P
1	9	103	125	Flatbed	V	8.2262	7.7246	8.2502	7.9874	525.631	500	25.631	P
1	9	202	625	Flatbed	V	8.2267	7.7256	8.2502	7.9879	524.631	500	24.631	P
1	9	402	445	Flatbed	V	7.7261	8.2267	8.7503	8.4885	523.631	500	23.631	P
1	9	501	0	Flatbed	V	8.2257	7.7241	8.2487	7.9864	524.631	500	24.631	P
1	9	503	0	Flatbed	V	7.7482	7.7241	8.2502	7.9872	526.132	500	26.132	P
1	9	601	0	Flatbed	V	7.7477	7.7242	8.2503	7.9872	526.132	500	26.132	P
1	9	605	0	Flatbed	V	7.7482	7.7242	8.2503	7.9872	526.132	500	26.132	P
1	9	607	0	Flatbed	V	7.7482	7.7241	8.2502	7.9872	526.132	500	26.132	P
1	9	701	0	Flatbed	V	8.2262	7.7236	8.2517	7.9877	528.132	500	28.132	P
1	9	702	0	Flatbed	V	8.2257	7.7236	7.7644	7.5006	527.632	500	27.632	P
1	9	703	0	Flatbed	V	8.2262	7.7236	8.2517	7.9877	528.132	500	28.132	P
1	9	704	0	Flatbed	V	8.2262	7.7236	8.2657	7.9947	542.136	500	42.136	P
1	9	705	0	Flatbed	V	7.7483	7.7182	8.2528	7.9855	534.630	500	34.630	P
1	9	706	0	Flatbed	V	7.7483	7.7147	8.2628	7.9887	548.140	500	48.140	P
1	9	405	4093	Flatbed	V	7.7483	7.7102	8.2643	7.9872	554.139	500	54.139	P
1	9	407	4093	Flatbed	V	7.7478	7.7087	8.2598	7.9842	551.138	500	51.138	P
1	9	409	4093	Flatbed	V	7.7483	7.7242	8.2503	7.9872	526.132	500	26.132	P
1	9	801	0Gap0	Flatbed	V	7.7483	7.7076	8.2667	7.9872	559.140	500	59.140	P
1	9	801	0Gap64	Flatbed	V	7.7483	7.7137	8.2608	7.9872	547.137	500	47.137	P
1	9	802	0	Flatbed	V	7.7483	7.7132	8.2633	7.9882	550.138	500	50.138	P
1	9	803	0	Flatbed	V	7.7483	7.7137	8.2608	7.9872	547.137	500	47.137	P
1	9	804	0Gap0	Flatbed	V	7.7482	7.7081	8.2667	7.9874	558.640	500	58.640	P
1	9	804	0Gap64	Flatbed	V	7.7483	7.7057	8.2708	7.9882	565.141	500	65.141	P
1	9	805	0	Flatbed	V	7.7483	7.7057	8.2708	7.9882	565.141	500	65.141	P
1	9	806	0	Flatbed	V	7.7483	7.7057	8.2688	7.9872	563.141	500	63.141	P
1	9	807	0Gap0	Flatbed	V	7.7487	7.7071	8.2672	7.9872	560.140	500	60.140	P
1	9	807	0Gap64	Flatbed	V	7.7482	7.7056	8.2662	7.9859	560.640	500	60.640	P
1	9	808	0	Flatbed	V	7.7482	7.7056	8.2672	7.9864	561.640	500	61.640	P
1	9	809	0	Flatbed	V	7.7482	7.7036	8.2667	7.9852	563.141	500	63.141	P
1	9	80A	0Gap0	Flatbed	V	7.7482	7.7076	8.2667	7.9872	559.140	500	59.140	P
1	9	80A	0Gap64	Flatbed	V	7.7482	7.7046	8.2667	7.9857	562.141	500	62.141	P
1	9	80B	0	Flatbed	V	7.7483	7.7077	8.2668	7.9872	559.140	500	59.140	P
1	9	80C	0	Flatbed	V	7.7483	7.7082	8.2668	7.9875	558.640	500	58.640	P

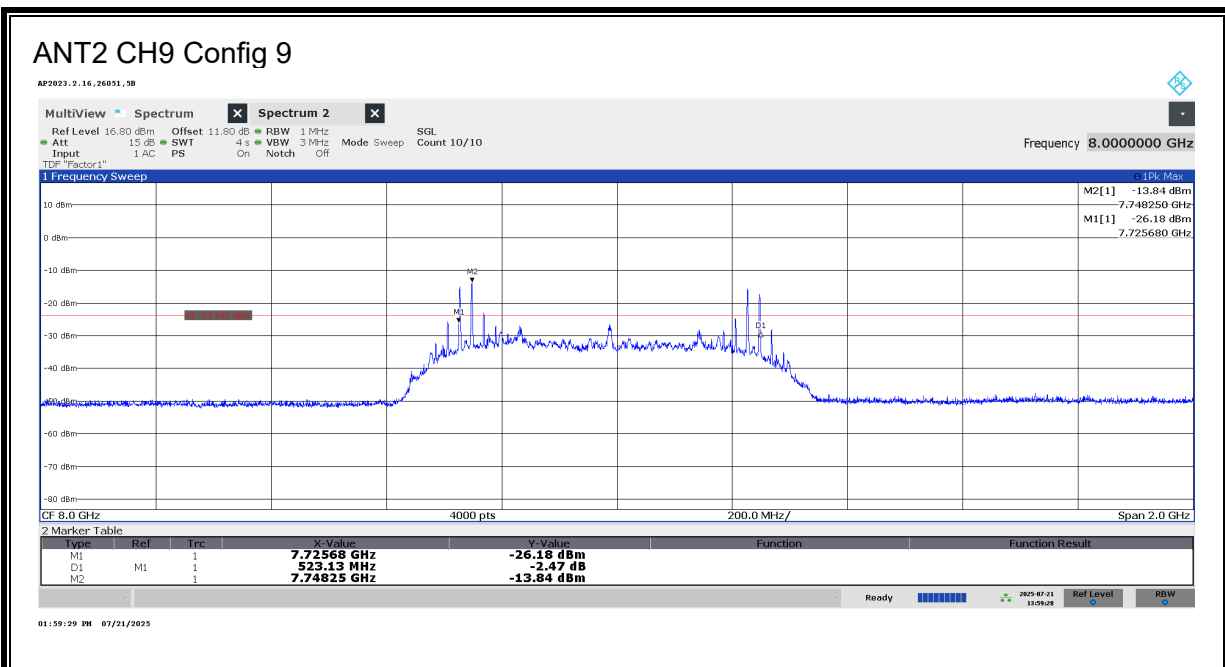
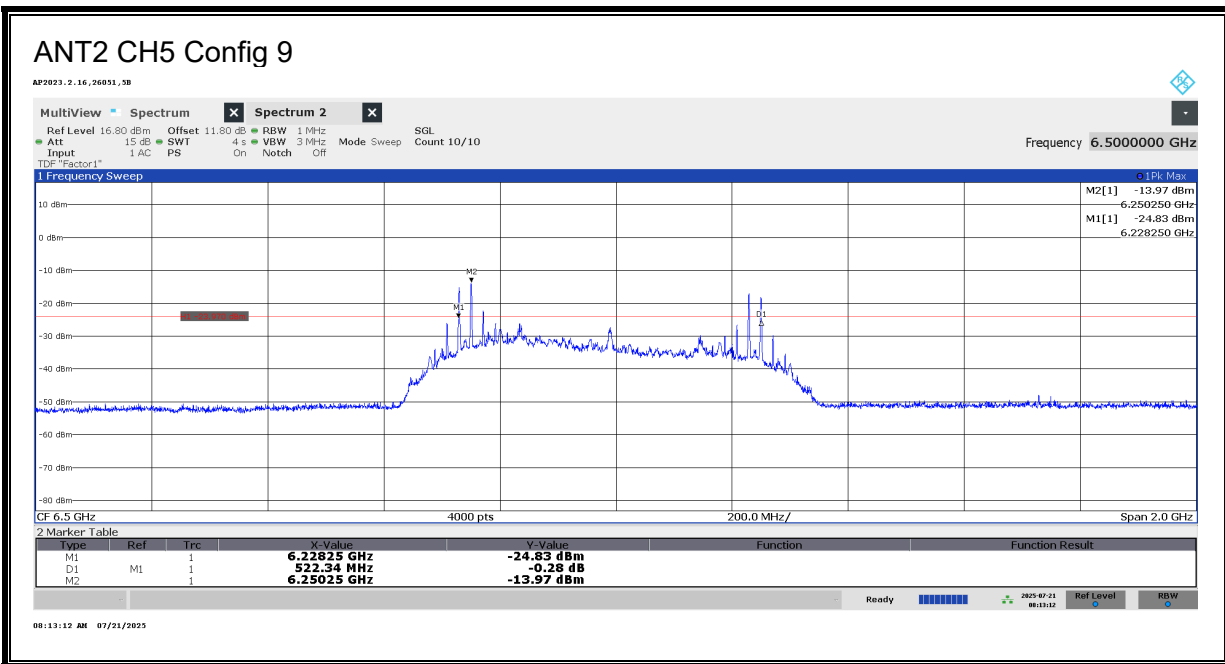
ANT2, CH5

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	FM (GHz)	FL (GHz)	FH (GHz)	FC (GHz)	OBW (MHz)	Min. OBW (MHz)	OBW Margin (MHz)	OBW Pass/Fail
2	5	0	25	Landscape	H	6.2503	6.2262	6.7523	6.4892	526.132	500	26.132	P
2	5	1	45	Landscape	H	6.2503	6.2267	6.7523	6.4895	525.631	500	25.631	P
2	5	6	125	Landscape	H	6.2503	6.2277	6.7513	6.4895	523.631	500	23.631	P
2	5	9	125	Landscape	H	6.2503	6.2283	6.7506	6.4894	522.340	500	22.34	P
2	5	10	25	Landscape	H	6.2503	6.2262	6.7523	6.4892	526.132	500	26.132	P
2	5	11	25	Landscape	H	6.2503	6.2262	6.7518	6.4890	525.631	500	25.631	P
2	5	11	65	Landscape	H	6.2503	6.2267	6.7523	6.4895	525.631	500	25.631	P
2	5	101	25	Landscape	H	6.2503	6.2227	6.7483	6.4855	525.631	500	25.631	P
2	5	101	65	Landscape	H	6.2508	6.2262	6.7523	6.4892	526.132	500	26.132	P
2	5	102	25	Landscape	H	6.2503	6.2267	6.7523	6.4895	525.631	500	25.631	P
2	5	102	65	Landscape	H	6.2503	6.2262	6.7518	6.4890	525.631	500	25.631	P
2	5	103	25	Landscape	H	6.2503	6.2262	6.7518	6.4890	525.631	500	25.631	P
2	5	103	125	Landscape	H	6.2503	6.2267	6.7523	6.4895	525.631	500	25.631	P
2	5	202	625	Landscape	H	6.2503	6.2267	6.7523	6.4895	525.63	500	25.63	P
2	5	402	445	Landscape	H	6.2503	6.2262	6.7523	6.4892	526.13	500	26.13	P
2	5	501	0	Landscape	H	6.2502	6.2266	6.7522	6.4894	525.631	500	25.631	P
2	5	503	0	Landscape	H	6.2502	6.2261	6.7522	6.4892	526.132	500	26.132	P
2	5	601	0	Landscape	H	6.2502	6.2261	6.7522	6.4892	526.132	500	26.132	P
2	5	605	0	Landscape	H	6.2502	6.2261	6.7522	6.4892	526.132	500	26.132	P
2	5	607	0	Landscape	H	6.2502	6.2261	6.7522	6.4892	526.132	500	26.132	P
2	5	701	0	Landscape	H	6.2507	6.2251	6.7532	6.4892	528.132	500	28.132	P
2	5	702	0	Landscape	H	6.2507	6.2251	6.7532	6.4892	528.132	500	28.132	P
2	5	703	0	Landscape	H	6.2507	6.2251	6.7532	6.4892	528.132	500	28.132	P
2	5	704	0	Landscape	H	6.2502	6.2106	6.7532	6.4819	542.636	500	42.636	P
2	5	705	0	Landscape	H	6.2508	6.2157	6.7533	6.4845	537.634	500	37.634	P
2	5	706	0	Landscape	H	6.2508	6.2052	6.7533	6.4792	548.137	500	48.137	P
2	5	405	4093	Landscape	H	6.2503	6.2052	6.75231	6.478745	547.13	500	47.13	P
2	5	407	4093	Landscape	H	6.2508	6.2022	6.75232	6.47725	550.14	500	50.14	P
2	5	409	4093	Landscape	H	6.2498	6.2277	6.74931	6.488495	521.63	500	21.63	P
2	5	801	0Gap0	Landscape	H	6.2508	6.1942	6.7533	6.4737	559.140	500	59.140	P
2	5	801	0Gap64	Landscape	H	6.2508	6.2022	6.7613	6.4817	559.140	500	59.140	P
2	5	802	0	Landscape	H	6.2508	6.2022	6.7613	6.4817	559.140	500	59.140	P
2	5	803	0	Landscape	H	6.2508	6.2022	6.7533	6.4777	551.140	500	51.138	P
2	5	804	0Gap0	Landscape	H	6.4273	6.1937	6.7533	6.4735	559.640	500	59.640	P
2	5	804	0Gap64	Landscape	H	6.2513	6.1946	6.7712	6.4829	576.644	500	76.644	P
2	5	805	0	Landscape	H	6.2508	6.1982	6.7708	6.4845	572.643	500	72.643	P
2	5	806	0	Landscape	H	6.2508	6.2027	6.7533	6.4780	550.638	500	50.638	P
2	5	807	0Gap0	Landscape	H	6.2508	6.1937	6.7533	6.4735	559.640	500	59.640	P
2	5	807	0Gap64	Landscape	H	6.4443	6.1942	6.7533	6.4737	559.140	500	59.140	P
2	5	808	0	Landscape	H	6.2508	6.1942	6.7533	6.4737	559.140	500	59.140	P
2	5	809	0	Landscape	H	6.2508	6.1942	6.7533	6.4737	559.140	500	59.140	P
2	5	80A	0Gap0	Landscape	H	6.4273	6.1937	6.7533	6.4735	559.640	500	59.640	P
2	5	80A	0Gap64	Landscape	H	6.4443	6.1937	6.7533	6.4735	559.640	500	59.640	P
2	5	80B	0	Landscape	H	6.4275	6.1942	6.7533	6.4737	559.140	500	59.140	P
2	5	80C	0	Landscape	H	6.4273	6.1942	6.7533	6.4737	559.140	500	59.140	P

ANT2, CH9

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	FM (GHz)	FL (GHz)	FH (GHz)	FC (GHz)	OBW (MHz)	Min. OBW (MHz)	OBW Margin (MHz)	OBW Pass/Fail
2	9	0	25	Landscape	H	7.7483	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	1	45	Landscape	H	7.7482	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	6	125	Landscape	H	7.7477	7.7251	8.2492	7.9872	524.131	500	24.131	P
2	9	9	125	Landscape	H	7.7483	7.7257	8.2488	7.9872	523.130	500	23.13	P
2	9	10	25	Landscape	H	7.7477	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	11	25	Landscape	H	7.7483	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	11	65	Landscape	H	7.7485	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	101	25	Landscape	H	7.7477	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	101	65	Landscape	H	7.7482	7.7241	8.2502	7.9872	526.130	500	26.130	P
2	9	102	25	Landscape	H	7.7477	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	102	65	Landscape	H	8.2263	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	103	25	Landscape	H	8.2268	7.7247	8.2503	7.9875	525.631	500	25.631	P
2	9	103	125	Landscape	H	8.2263	7.7247	8.2503	7.9875	525.631	500	25.631	P
2	9	202	625	Landscape	H	7.7483	7.7242	8.2498	7.9870	525.63	500	25.63	P
2	9	402	445	Landscape	H	7.7483	7.7242	8.2498	7.9870	525.63	500	25.631	P
2	9	501	0	Landscape	H	8.2262	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	503	0	Landscape	H	8.2267	7.7242	8.2503	7.9872	526.132	500	26.132	P
2	9	601	0	Landscape	H	8.2267	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	605	0	Landscape	H	8.2262	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	607	0	Landscape	H	8.2267	7.7241	8.2502	7.9872	526.132	500	26.132	P
2	9	701	0	Landscape	H	8.2262	7.7231	8.2517	7.9874	528.632	500	28.632	P
2	9	702	0	Landscape	H	8.2265	7.7231	8.2517	7.9874	528.632	500	28.632	P
2	9	703	0	Landscape	H	8.2262	7.7231	8.2512	7.9872	528.132	500	28.132	P
2	9	704	0	Landscape	H	8.2257	7.7231	8.2657	7.9944	542.636	500	42.636	P
2	9	705	0	Landscape	H	8.2262	7.7231	8.2657	7.9944	542.636	500	42.636	P
2	9	706	0	Landscape	H	8.2262	7.7196	8.2842	8.0019	564.641	500	64.641	P
2	9	405	4093	Landscape	H	8.2267	7.7101	8.2647	7.9874	554.640	500	54.640	P
2	9	407	4093	Landscape	H	8.2262	7.7206	8.2742	7.9974	553.638	500	53.638	P
2	9	409	4093	Landscape	H	8.2267	7.7242	8.2498	7.9870	525.631	500	25.631	P
2	9	801	0Gap0	Landscape	H	8.2262	7.7182	8.2738	7.9960	555.639	500	55.639	P
2	9	801	0Gap64	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	802	0	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	803	0	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	804	0Gap0	Landscape	H	8.2262	7.7171	8.2832	8.0002	566.142	500	66.142	P
2	9	804	0Gap64	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	805	0	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	806	0	Landscape	H	8.2263	7.7157	8.2823	7.9990	566.642	500	66.642	P
2	9	807	0Gap0	Landscape	H	8.2262	7.7156	8.2832	7.9994	567.642	500	67.642	P
2	9	807	0Gap64	Landscape	H	8.2257	7.7156	8.2822	7.9989	566.642	500	66.642	P
2	9	808	0	Landscape	H	8.2257	7.7231	8.2832	8.0032	560.140	500	60.140	P
2	9	809	0	Landscape	H	8.2262	7.7156	8.2822	7.9989	566.642	500	66.642	P
2	9	80A	0Gap0	Landscape	H	8.2262	7.7171	8.2827	7.9999	565.641	500	65.641	P
2	9	80A	0Gap64	Landscape	H	8.2262	7.7156	8.2827	7.9992	567.142	500	67.142	P
2	9	80B	0	Landscape	H	8.2262	7.7156	8.2827	7.9992	567.142	500	67.142	P
2	9	80C	0	Landscape	H	8.2267	7.7186	8.2832	8.0009	564.641	500	64.641	P

OPERATING BANDWIDTH



9.3 PEAK POWER AND MAXIMUM AVERAGE EMISSIONS

LIMITS

FCC

15.519 (e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_m . That limit is 0 dBm EIRP.

15.519 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
3100 - 10600	-41.3

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Annex, Section 4 (c) Peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz.

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Frequency	E.I.R.P. in a Resolution Bandwidth of 1 MHz
4.75 – 10.6 GHz	-41.3

TEST PROCEDURE

ANSI C63.10 Clause 10.3

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Peak EIRP power is measured using RBW of 50 MHz*.

**Peak measurements were validated to have same readings as a wider bandwidth receiver, regardless of YIG Filter Bandwidth Notice.*

The radiated emissions of 5 - 9 GHz frequency band are performed at 3-meter test distance.

Tabulated data provides the test results of all available test configurations. Plots for ANT1, CONFIG 9, Payload 125 on CH9 and ANT2, CONFIG 9, Payload 125 on CH5 and CH9 peak and maximum average power measurements are presented and same measurement settings apply to the rest of test configurations.

RESULTS

Employee IDs: 26857, 24943, 26051

Location: Chamber 02-RDE-F, 05-RDE-B

Test Date: 4/24/2025 to 7/22/2025

ANT1, CH9

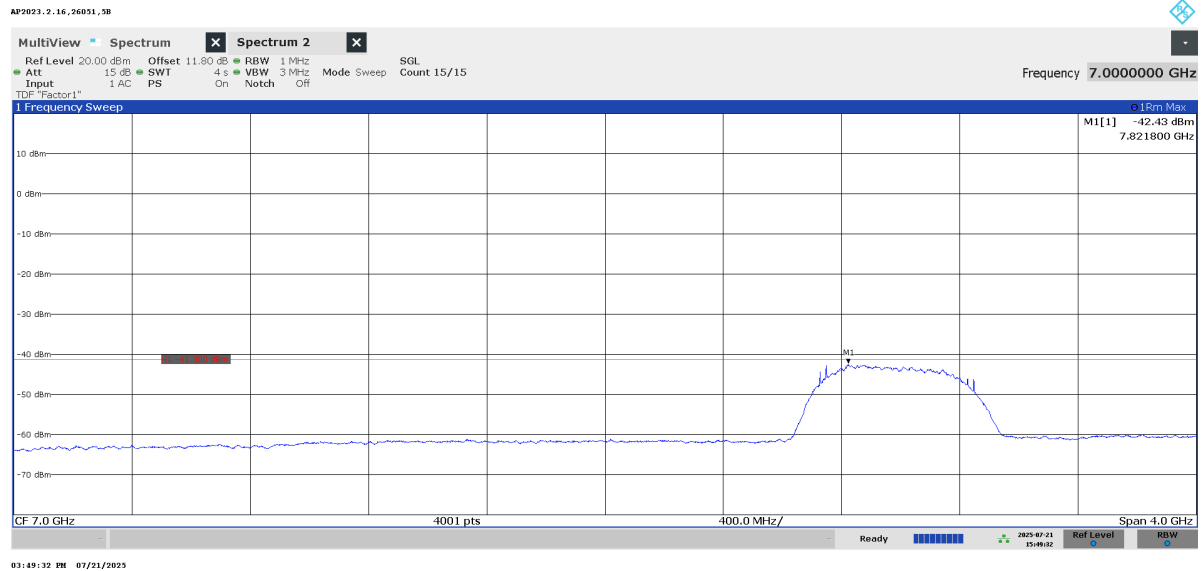
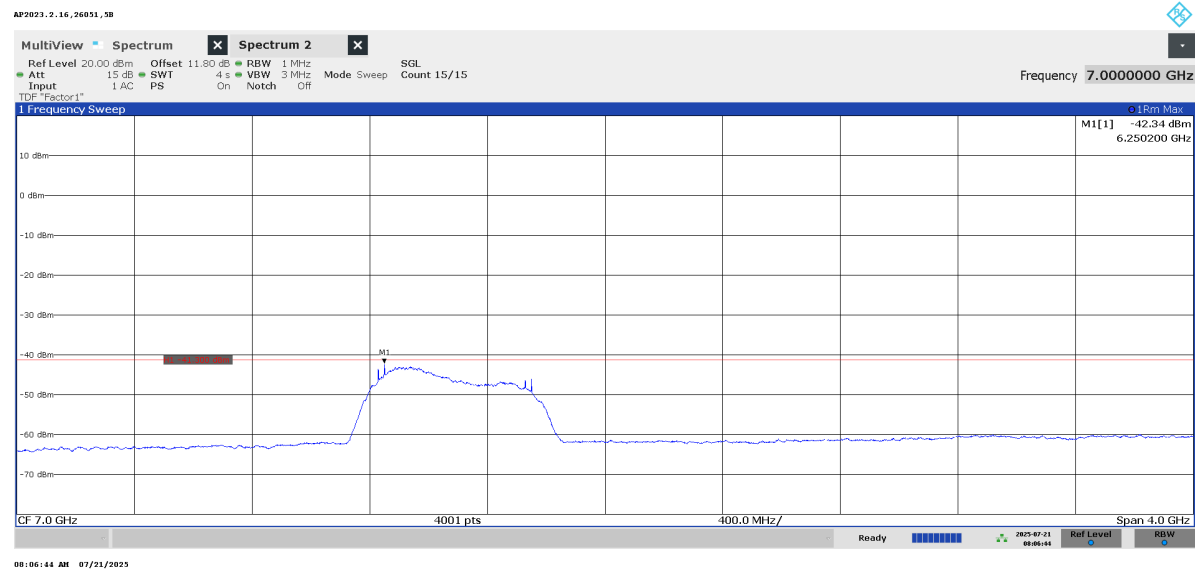
ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	Peak EIRP Power				Average EIRP Power			
						FM (GHz)	Adj Pk	Pk Limit	Margin (dB)	FM (GHz)	Adj Av	Avg Limit	Margin (dB)
1	9	0	25	Flatbed	V	8.2177	-1.30	0	-1.30	7.8468	-45.97	-41.3	-4.67
1	9	1	45	Flatbed	V	8.2177	-1.35	0	-1.35	8.2267	-46.38	-41.3	-5.08
1	9	6	125	Flatbed	V	8.2167	-3.43	0	-3.43	7.8548	-42.60	-41.3	-1.30
1	9	9	125	Flatbed	V	7.9858	-7.16	0	-7.16	7.8218	-42.43	-41.3	-1.13
1	9	10	25	Flatbed	V	8.2177	-1.31	0	-1.31	7.8468	-45.37	-41.3	-4.07
1	9	11	25	Flatbed	V	8.2177	-1.39	0	-1.39	7.8468	-45.42	-41.3	-4.12
1	9	11	65	Flatbed	V	8.2177	-1.31	0	-1.31	7.8468	-45.41	-41.3	-4.11
1	9	101	25	Flatbed	V	8.2187	-1.14	0	-1.14	7.8468	-46.97	-41.3	-5.67
1	9	101	65	Flatbed	V	8.2518	-1.44	0	-1.44	7.8468	-45.58	-41.3	-4.28
1	9	102	25	Flatbed	V	8.2177	-1.22	0	-1.22	8.2057	-45.48	-41.3	-4.18
1	9	102	65	Flatbed	V	8.2177	-1.27	0	-1.27	8.2057	-43.26	-41.3	-1.96
1	9	103	25	Flatbed	V	8.2187	-1.21	0	-1.21	8.1827	-43.32	-41.3	-2.02
1	9	103	125	Flatbed	V	8.2177	-2.90	0	-2.90	8.2057	-42.74	-41.3	-1.44
1	9	202	625	Flatbed	V	8.2177	-9.22	0	-9.22	8.2037	-42.55	-41.3	-1.25
1	9	402	445	Flatbed	V	8.2180	-7.58	0	-7.58	8.1797	-42.66	-41.3	-1.36
1	9	501	0	Flatbed	V	8.2197	-1.26	0	-1.26	8.2267	-45.31	-41.3	-4.01
1	9	503	0	Flatbed	V	8.2167	-1.43	0	-1.43	8.0297	-48.00	-41.3	-6.70
1	9	601	0	Flatbed	V	8.2177	-1.37	0	-1.37	7.8488	-45.16	-41.3	-3.86
1	9	605	0	Flatbed	V	8.2177	-1.18	0	-1.18	7.7478	-47.07	-41.3	-5.77
1	9	607	0	Flatbed	V	8.2177	-1.19	0	-1.19	7.7478	-47.04	-41.3	-5.74
1	9	701	0	Flatbed	V	8.2177	-1.43	0	-1.43	8.1187	-47.28	-41.3	-5.98
1	9	702	0	Flatbed	V	8.2187	-1.18	0	-1.18	8.2267	-48.43	-41.3	-7.13
1	9	703	0	Flatbed	V	8.2177	-1.43	0	-1.43	8.2257	-48.33	-41.3	-7.03
1	9	704	0	Flatbed	V	8.2177	-1.94	0	-1.94	8.1117	-42.68	-41.3	-1.38
1	9	705	0	Flatbed	V	8.1137	-1.10	0	-1.10	8.0717	-42.66	-41.3	-1.36
1	9	706	0	Flatbed	V	8.2177	-1.74	0	-1.74	8.0747	-42.46	-41.3	-1.16
1	9	405	4093	Flatbed	V	8.2177	-9.74	0	-9.74	8.1327	-42.35	-41.3	-1.05
1	9	407	4093	Flatbed	V	8.2177	-9.35	0	-9.35	8.1327	-42.51	-41.3	-1.21
1	9	409	4093	Flatbed	V	8.2177	-9.19	0	-9.19	8.0557	-42.41	-41.3	-1.11
1	9	801	0Gap0	Flatbed	V	8.2177	-1.39	0	-1.39	8.0697	-44.47	-41.3	-3.17
1	9	801	0Gap64	Flatbed	V	8.2187	-1.30	0	-1.30	8.0087	-42.46	-41.3	-1.16
1	9	802	0	Flatbed	V	8.2187	-1.74	0	-1.74	8.0087	-42.40	-41.3	-1.10
1	9	803	0	Flatbed	V	8.2177	-1.46	0	-1.46	8.0087	-43.65	-41.3	-2.35
1	9	804	0Gap0	Flatbed	V	8.2177	-1.92	0	-1.92	8.0697	-42.80	-41.3	-1.50
1	9	804	0Gap64	Flatbed	V	8.2177	-4.57	0	-4.57	8.0087	-42.54	-41.3	-1.24
1	9	805	0	Flatbed	V	8.2177	-4.68	0	-4.68	8.0087	-42.62	-41.3	-1.32
1	9	806	0	Flatbed	V	8.2177	-3.40	0	-3.40	8.0087	-42.44	-41.3	-1.14
1	9	807	0Gap0	Flatbed	V	8.2187	-1.24	0	-1.24	8.0697	-44.74	-41.3	-3.44
1	9	807	0Gap64	Flatbed	V	8.2177	-1.47	0	-1.47	7.8328	-45.70	-41.3	-4.40
1	9	808	0	Flatbed	V	8.2167	-1.23	0	-1.23	7.8338	-45.56	-41.3	-4.26
1	9	809	0	Flatbed	V	8.2177	-1.38	0	-1.38	8.1417	-45.60	-41.3	-4.30
1	9	80A	0Gap0	Flatbed	V	8.2177	-1.67	0	-1.67	7.8628	-42.76	-41.3	-1.46
1	9	80A	0Gap64	Flatbed	V	8.2187	-1.27	0	-1.27	8.1217	-43.39	-41.3	-2.09
1	9	80B	0	Flatbed	V	8.2177	-1.25	0	-1.25	8.0757	-43.35	-41.3	-2.05
1	9	80C	0	Flatbed	V	8.2177	-1.28	0	-1.28	8.0557	-43.21	-41.3	-1.91

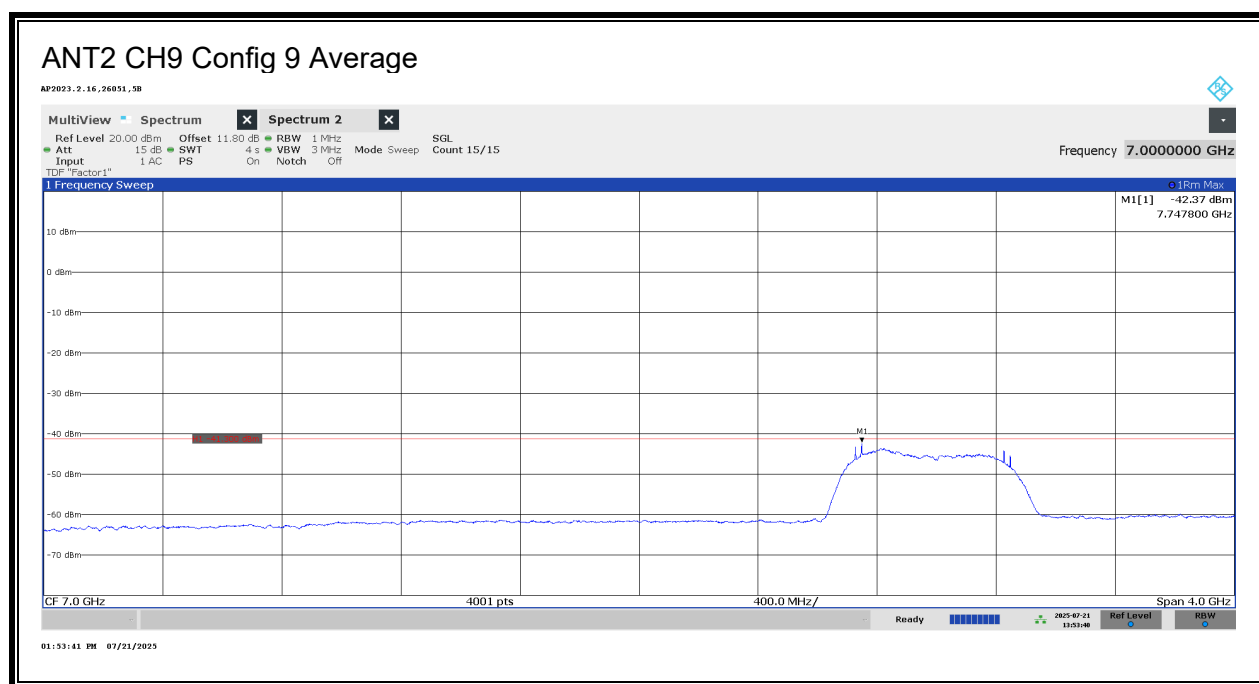
ANT2, CH5

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	Peak EIRP Power				Average EIRP Power			
						FM (GHz)	Adj Pk	Pk Limit	Margin (dB)	FM (GHz)	Adj Av	Avg Limit	Margin (dB)
2	5	0	25	Landscape	H	6.4761	-2.39	0	-2.39	6.3852	-43.52	-41.3	-2.22
2	5	1	45	Landscape	H	6.4781	-1.57	0	-1.57	6.3802	-42.39	-41.3	-1.09
2	5	6	125	Landscape	H	6.4841	-6.56	0	-6.56	6.3832	-42.57	-41.3	-1.27
2	5	9	125	Landscape	H	6.2332	-9.35	0	-9.24	6.3332	-42.34	-41.3	-1.14
2	5	10	25	Landscape	H	6.4771	-2.49	0	-2.49	6.3852	-42.59	-41.3	-1.29
2	5	11	25	Landscape	H	6.4771	-1.27	0	-1.27	6.3882	-43.09	-41.3	-1.79
2	5	11	65	Landscape	H	6.4771	-2.56	0	-2.56	6.3962	-42.62	-41.3	-1.32
2	5	101	25	Landscape	H	6.4771	-1.27	0	-1.27	6.3962	-43.30	-41.3	-2.00
2	5	101	65	Landscape	H	6.4781	-2.59	0	-2.59	6.3962	-42.68	-41.3	-1.38
2	5	102	25	Landscape	H	6.4771	-1.20	0	-1.20	6.3882	-43.12	-41.3	-1.82
2	5	102	65	Landscape	H	6.4761	-2.57	0	-2.57	6.3962	-42.58	-41.3	-1.28
2	5	103	25	Landscape	H	6.4751	-2.59	0	-2.59	6.3842	-42.66	-41.3	-1.36
2	5	103	125	Landscape	H	6.4771	-4.83	0	-4.83	6.3802	-42.45	-41.3	-1.15
2	5	202	625	Landscape	H	6.2432	-11.12	0	-11.12	6.3652	-42.32	-41.3	-1.02
2	5	402	445	Landscape	H	6.2402	-9.23	0	-9.23	6.3651	-42.32	-41.3	-1.02
2	5	501	0	Landscape	H	6.2382	-1.67	0	-1.67	6.3882	-42.66	-41.3	-1.36
2	5	503	0	Landscape	H	6.2422	-1.62	0	-1.62	6.3852	-42.69	-41.3	-1.39
2	5	601	0	Landscape	H	6.2392	-4.37	0	-4.37	6.4031	-42.53	-41.3	-1.23
2	5	605	0	Landscape	H	6.2392	-2.04	0	-2.04	6.4051	-42.77	-41.3	-1.47
2	5	607	0	Landscape	H	6.2412	-1.98	0	-1.98	6.3962	-42.60	-41.3	-1.30
2	5	701	0	Landscape	H	6.2412	-3.31	0	-3.31	6.4271	-42.59	-41.3	-1.29
2	5	702	0	Landscape	H	6.2332	-1.43	0	-1.43	6.4631	-42.62	-41.3	-1.32
2	5	703	0	Landscape	H	6.2342	-1.52	0	-1.52	6.4711	-42.63	-41.3	-1.33
2	5	704	0	Landscape	H	6.4261	-8.03	0	-8.03	6.4611	-42.71	-41.3	-1.41
2	5	705	0	Landscape	H	6.3652	-3.59	0	-3.59	6.3872	-42.59	-41.3	-1.29
2	5	706	0	Landscape	H	6.2411	-4.76	0	-4.76	6.3872	-42.49	-41.3	-1.19
2	5	405	4093	Landscape	H	6.2382	-12.98	0	-12.98	6.3612	-42.30	-41.3	-1.00
2	5	407	4093	Landscape	H	6.2392	-12.41	0	-12.41	6.3552	-42.53	-41.3	-1.23
2	5	409	4093	Landscape	H	6.2392	-12.24	0	-12.24	6.3342	-42.55	-41.3	-1.25
2	5	801	0Gap0	Landscape	H	6.2332	-4.27	0	-4.27	6.3952	-42.50	-41.3	-1.20
2	5	801	0Gap64	Landscape	H	6.2332	-3.17	0	-3.17	6.3332	-42.49	-41.3	-1.19
2	5	802	0	Landscape	H	6.2332	-3.33	0	-3.33	6.3332	-42.48	-41.3	-1.18
2	5	803	0	Landscape	H	6.2322	-1.79	0	-1.79	6.3332	-42.63	-41.3	-1.33
2	5	804	0Gap0	Landscape	H	6.2362	-7.53	0	-7.53	6.3952	-42.66	-41.3	-1.36
2	5	804	0Gap64	Landscape	H	6.2392	-6.52	0	-6.52	6.3332	-42.58	-41.3	-1.28
2	5	805	0	Landscape	H	6.2322	-6.28	0	-6.28	6.3332	-42.44	-41.3	-1.14
2	5	806	0	Landscape	H	6.2332	-4.35	0	-4.35	6.3332	-42.51	-41.3	-1.21
2	5	807	0Gap0	Landscape	H	6.2402	-4.27	0	-4.27	6.4381	-42.55	-41.3	-1.25
2	5	807	0Gap64	Landscape	H	6.2402	-4.36	0	-4.36	6.3942	-42.43	-41.3	-1.13
2	5	808	0	Landscape	H	6.2402	-4.26	0	-4.26	6.3942	-42.57	-41.3	-1.27
2	5	809	0	Landscape	H	6.2412	-4.26	0	-4.26	6.3942	-42.57	-41.3	-1.27
2	5	80A	0Gap0	Landscape	H	6.2392	-7.52	0	-7.52	6.3952	-42.65	-41.3	-1.35
2	5	80A	0Gap64	Landscape	H	6.2372	-6.25	0	-6.25	6.4011	-42.56	-41.3	-1.26
2	5	80B	0	Landscape	H	6.2312	-6.81	0	-6.81	6.4011	-42.62	-41.3	-1.32
2	5	80C	0	Landscape	H	6.2342	-6.52	0	-6.52	6.3952	-42.43	-41.3	-1.13

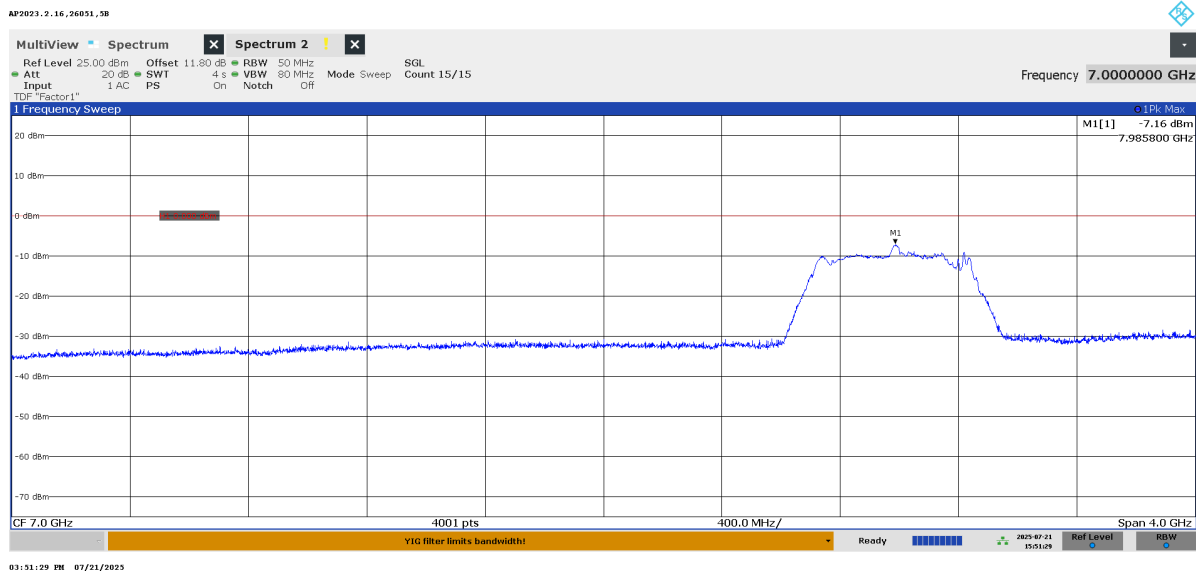
ANT2, CH9

ANT	CH	CF	PL	EUT Orientation	Ant. Polarity	Peak EIRP Power				Average EIRP Power			
						FM (GHz)	Adj Pk	Pk Limit	Margin (dB)	FM (GHz)	Adj Av	Avg Limit	Margin (dB)
2	9	0	25	Landscape	H	8.2167	-1.43	0	-1.43	8.0767	-44.10	-41.3	-2.80
2	9	1	45	Landscape	H	8.2177	-1.09	0	-1.09	8.0807	-44.20	-41.3	-2.90
2	9	6	125	Landscape	H	7.9918	-5.84	0	-5.84	8.0067	-42.59	-41.3	-1.29
2	9	9	125	Landscape	H	7.9838	-8.11	0	-6.96	7.9868	-42.37	-41.3	-1.42
2	9	10	25	Landscape	H	8.2177	-1.19	0	-1.19	8.0577	-42.72	-41.3	-1.42
2	9	11	25	Landscape	H	8.2187	-1.04	0	-1.04	8.0767	-44.27	-41.3	-2.97
2	9	11	65	Landscape	H	8.2167	-1.18	0	-1.18	8.0187	-42.54	-41.3	-1.24
2	9	101	25	Landscape	H	8.2167	-1.23	0	-1.23	8.0767	-44.41	-41.3	-3.11
2	9	101	65	Landscape	H	8.2177	-1.09	0	-1.09	8.0187	-42.43	-41.3	-1.13
2	9	102	25	Landscape	H	8.2177	-1.19	0	-1.19	8.0767	-44.33	-41.3	-3.03
2	9	102	65	Landscape	H	8.2177	-1.34	0	-1.34	8.0807	-44.87	-41.3	-3.57
2	9	103	25	Landscape	H	8.2187	-1.15	0	-1.15	8.0767	-45.02	-41.3	-3.72
2	9	103	125	Landscape	H	8.2177	-1.16	0	-1.16	8.0807	-42.47	-41.3	-1.17
2	9	202	625	Landscape	H	8.2167	-7.89	0	-7.89	8.1167	-42.46	-41.3	-1.16
2	9	402	445	Landscape	H	8.2177	-5.81	0	-5.81	8.1137	-42.41	-41.3	-1.11
2	9	501	0	Landscape	H	8.2177	-1.20	0	-1.20	8.2267	-42.82	-41.3	-1.52
2	9	503	0	Landscape	H	8.2167	-1.38	0	-1.38	8.2267	-48.72	-41.3	-7.42
2	9	601	0	Landscape	H	8.2177	-1.47	0	-1.47	8.0557	-46.01	-41.3	-4.71
2	9	605	0	Landscape	H	8.2177	-1.47	0	-1.47	8.2267	-48.23	-41.3	-6.93
2	9	607	0	Landscape	H	8.2177	-1.41	0	-1.41	8.2267	-48.32	-41.3	-7.02
2	9	701	0	Landscape	H	8.2177	-1.44	0	-1.44	7.9248	-46.55	-41.3	-5.25
2	9	702	0	Landscape	H	8.2187	-1.45	0	-1.45	8.0577	-47.85	-41.3	-6.55
2	9	703	0	Landscape	H	8.2177	-1.34	0	-1.34	8.1157	-47.37	-41.3	-6.07
2	9	704	0	Landscape	H	8.2187	-3.11	0	-3.11	8.1117	-42.63	-41.3	-1.33
2	9	705	0	Landscape	H	8.2177	-1.33	0	-1.33	8.1147	-43.19	-41.3	-1.89
2	9	706	0	Landscape	H	8.2127	-2.34	0	-2.34	8.1157	-42.76	-41.3	-1.46
2	9	405	4093	Landscape	H	8.2187	-9.92	0	-9.92	8.1167	-42.63	-41.3	-1.33
2	9	407	4093	Landscape	H	8.2187	-9.32	0	-9.32	8.0557	-42.65	-41.3	-1.35
2	9	409	4093	Landscape	H	8.2187	-9.23	0	-9.23	8.0057	-42.40	-41.3	-1.10
2	9	801	0Gap0	Landscape	H	8.2177	-1.09	0	-1.09	8.0707	-44.74	-41.3	-3.44
2	9	801	0Gap64	Landscape	H	8.2177	-1.11	0	-1.11	8.0747	-43.94	-41.3	-2.64
2	9	802	0	Landscape	H	8.2187	-1.27	0	-1.27	8.1227	-44.09	-41.3	-2.79
2	9	803	0	Landscape	H	8.2177	-1.46	0	-1.46	8.0747	-45.14	-41.3	-3.84
2	9	804	0Gap0	Landscape	H	8.2177	-1.24	0	-1.24	7.8628	-42.50	-41.3	-1.20
2	9	804	0Gap64	Landscape	H	8.2177	-2.88	0	-2.88	8.1077	-42.45	-41.3	-1.15
2	9	805	0	Landscape	H	8.2177	-2.69	0	-2.69	8.1077	-42.42	-41.3	-1.12
2	9	806	0	Landscape	H	8.2187	-1.30	0	-1.30	8.1077	-42.47	-41.3	-1.17
2	9	807	0Gap0	Landscape	H	8.2177	-1.25	0	-1.25	7.8598	-45.82	-41.3	-4.52
2	9	807	0Gap64	Landscape	H	8.2177	-1.29	0	-1.29	7.8328	-46.28	-41.3	-4.98
2	9	808	0	Landscape	H	8.2177	-1.30	0	-1.30	7.8338	-46.47	-41.3	-5.17
2	9	809	0	Landscape	H	8.2177	-1.06	0	-1.06	7.8528	-46.16	-41.3	-4.86
2	9	80A	0Gap0	Landscape	H	8.2167	-1.36	0	-1.36	7.8628	-42.86	-41.3	-1.56
2	9	80A	0Gap64	Landscape	H	8.2167	-1.40	0	-1.40	8.0747	-44.10	-41.3	-2.80
2	9	80B	0	Landscape	H	8.2187	-1.33	0	-1.33	8.0757	-44.20	-41.3	-2.90
2	9	80C	0	Landscape	H	8.2177	-1.32	0	-1.32	7.8528	-44.29	-41.3	-2.99

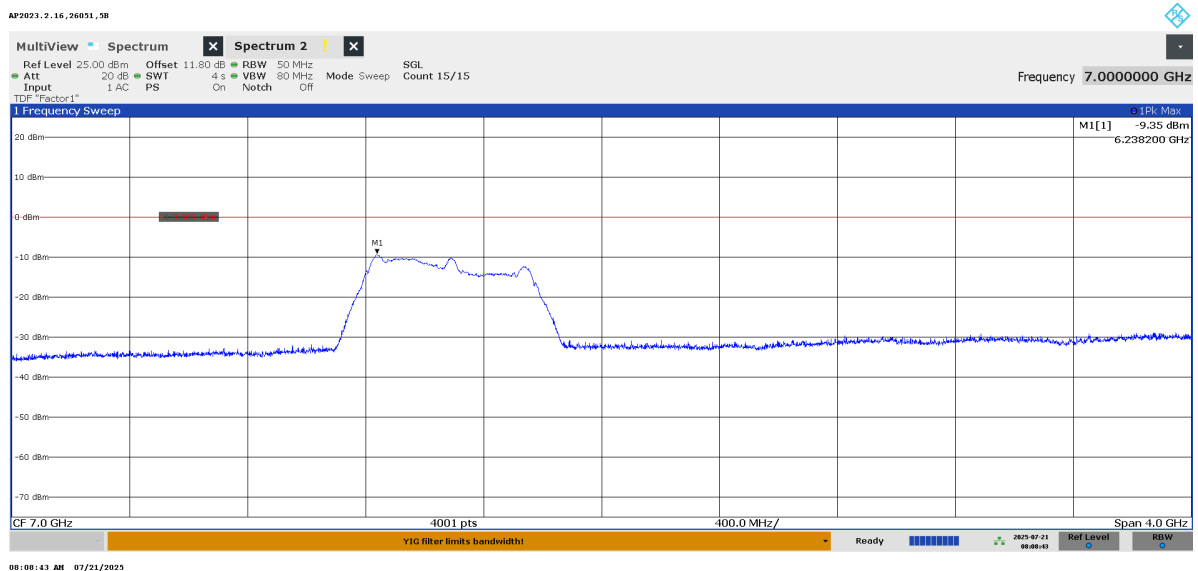
PEAK POWER AND MAXIMUM AVERAGE EMISSIONS**ANT1 CH9 Config 9 Average****ANT2 CH5 Config 9 Average**

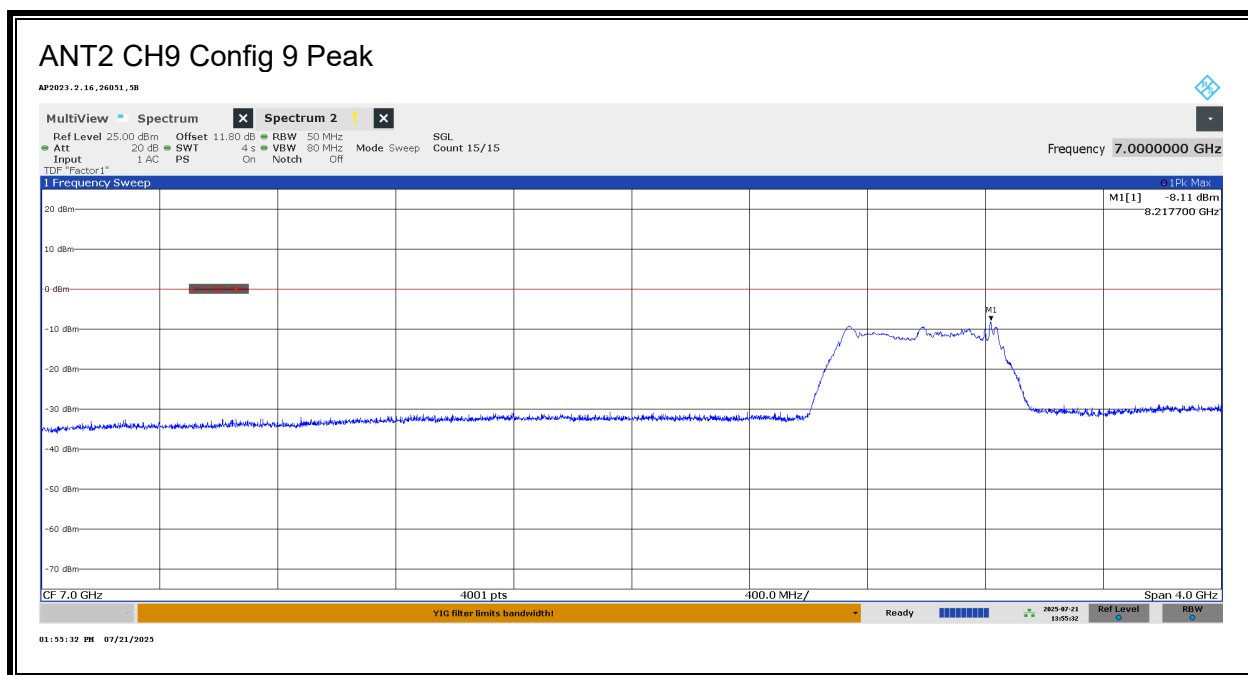


ANT1 CH9 Config 9 Peak



ANT2 CH5 Config 9 Peak





9.4 CESSATION TIME

LIMITS

FCC

§15.519(a)(1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

RSS-220

Section 5.3.1 (b) The device is to transmit only when it is sending information to an associated receiver. The device shall cease transmission of information within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB device at least every 10 seconds or the UWB device shall cease transmitting any information other than periodic signals used for the establishment or re-establishment of a communication link with an associated receiver.

TEST PROCEDURES

* Initiator = EUT

* Responder = associated receiver

Transmissions are monitored for two cases:

1. The Initiator ends the UWB link.
2. The Responder ends the UWB link.

RESULTS

Employee ID: 26051

Location: Chamber 02-RDE-F

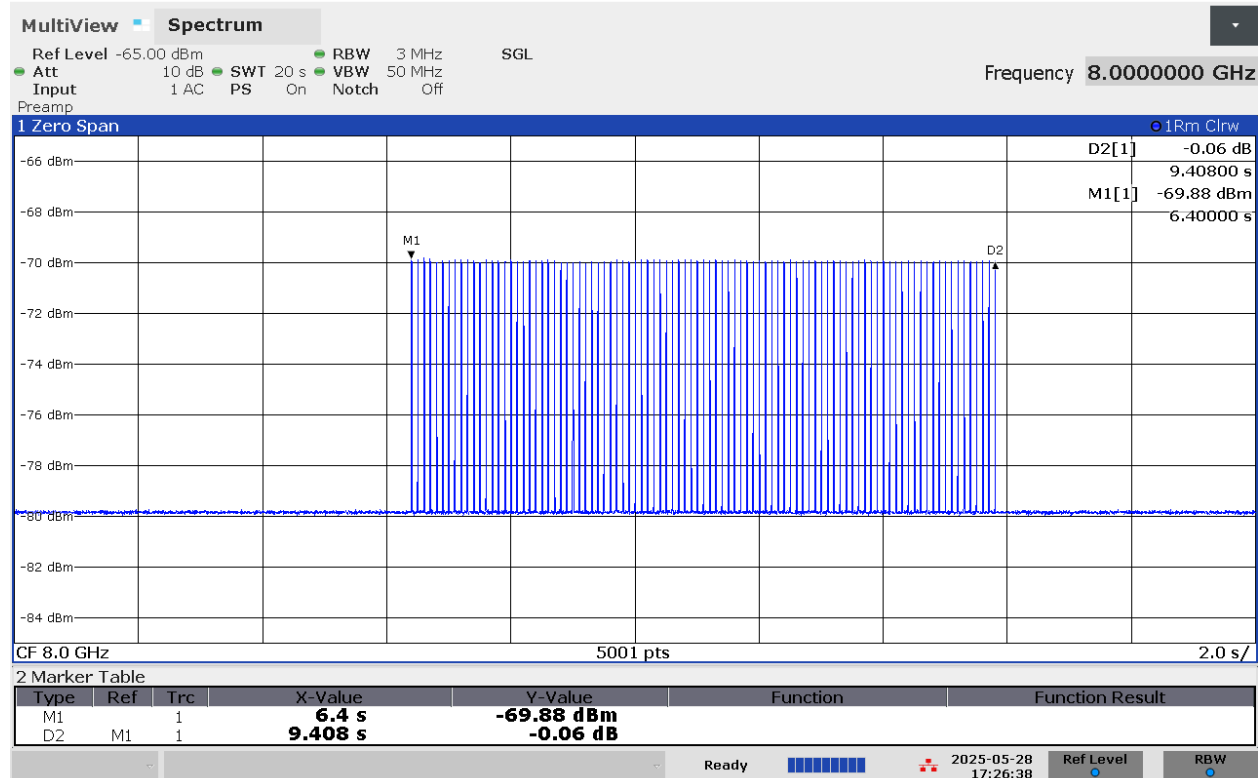
Test Date: 5/28/2025

Signal Levels on all Plots

- Initiator is Low Amplitude
- Responder is High Amplitude

Case 1: Initiator ends the UWB link

AP2021.2.16, 26051, 2F



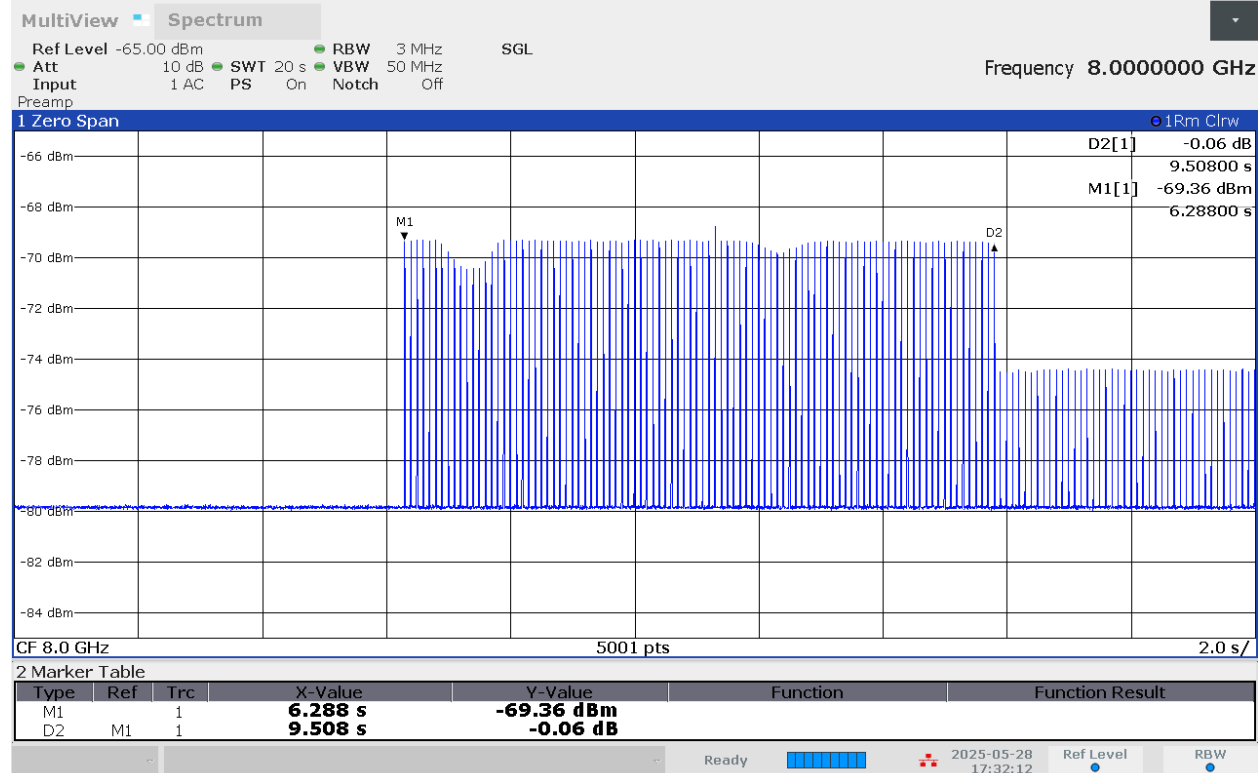
05:26:38 PM 05/28/2025

RESULT

- M1: The Initiator receives an Acknowledgement from the Responder and starts transmitting.
- D2: The Initiator ceases transmission and polling.

Case 2: Responder ends the UWB link

AP2021.2.16, 26051, 2F



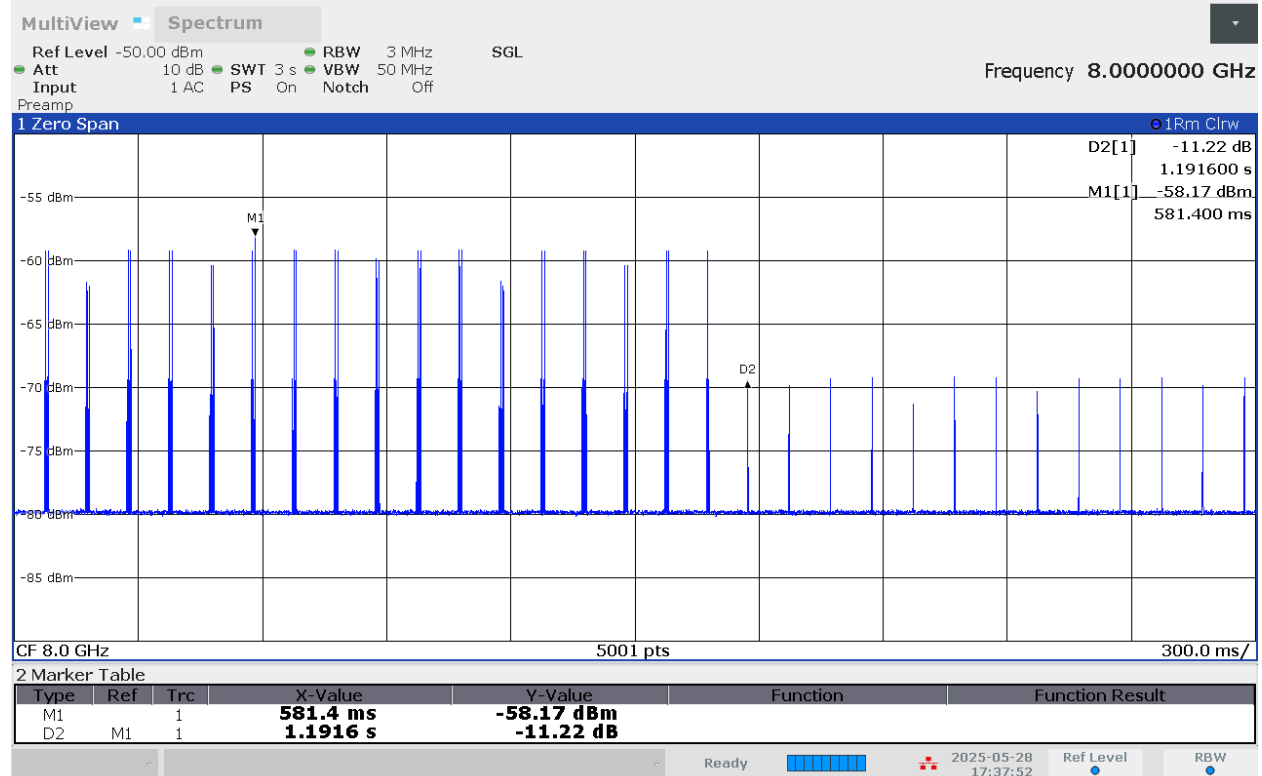
05:32:12 PM 05/28/2025

RESULT

- M1: The Initiator receives an Acknowledgement from the Responder and starts transmitting.
- D2: The Responder stops sending acknowledgments and the Initiator continues polling.

Zoom-in Plot during On-Off Transition

AP2021.2.16, 26051, 2F



05:37:52 PM 05/28/2025

RESULT

- M1: Shows Link Traffic, Acknowledgements and Polling Signals while Link is established
- D2: Shows Polling Signals after Link has ended

9.5 EMISSIONS BELOW 960 MHz

LIMITS

FCC

§15.519 (c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

15.209 (a)

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

RSS-220

Section 3.4 Radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

Frequency (MHz)	Field Strength (Microvolts/m)	Measurement Distance (Metres)	E.i.r.p. (dBmW)
0.009-0.490	2,400/F (F in kHz)	300	$10 \log (17.28 / F^2)$ (F in kHz)
0.490-1.705	24,000/F (F in kHz)	30	$10 \log (17.28 / F^2)$ (F in kHz)
1.705-30	30	30	-45.7
30-88	100	3	-55.2
88-216	150	3	-51.7
216-960	200	3	-49.2

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average emissions detector.

TEST PROCEDURE

ANSI C63.10 Clause 10.2

RSS-220 Annex

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 3m from the EUT.

For below 30 MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

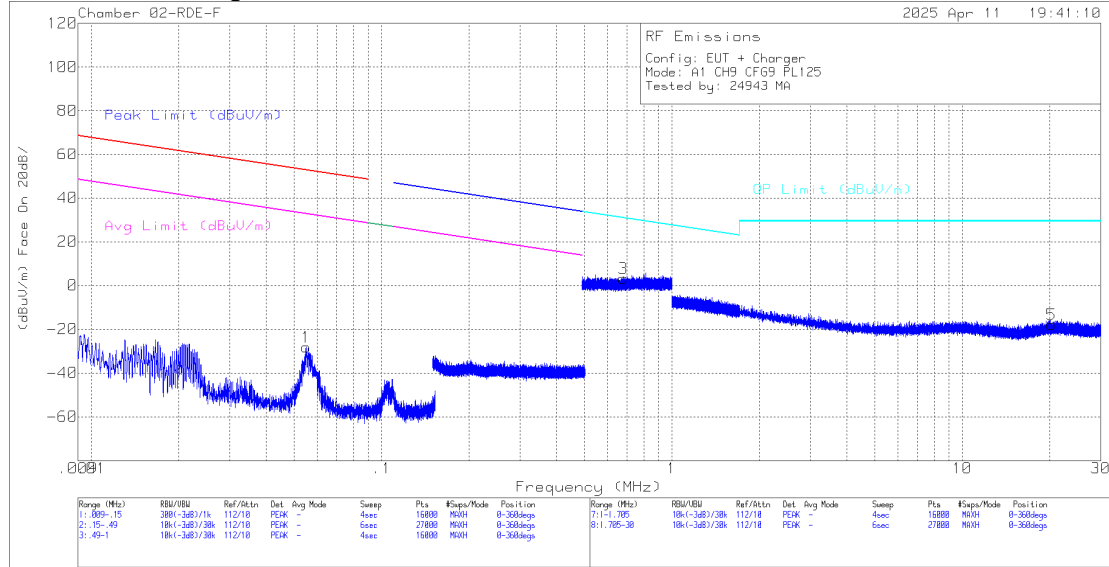
RESULTS**Emissions Summary**

Employee IDs: 24943, 26857, 32543

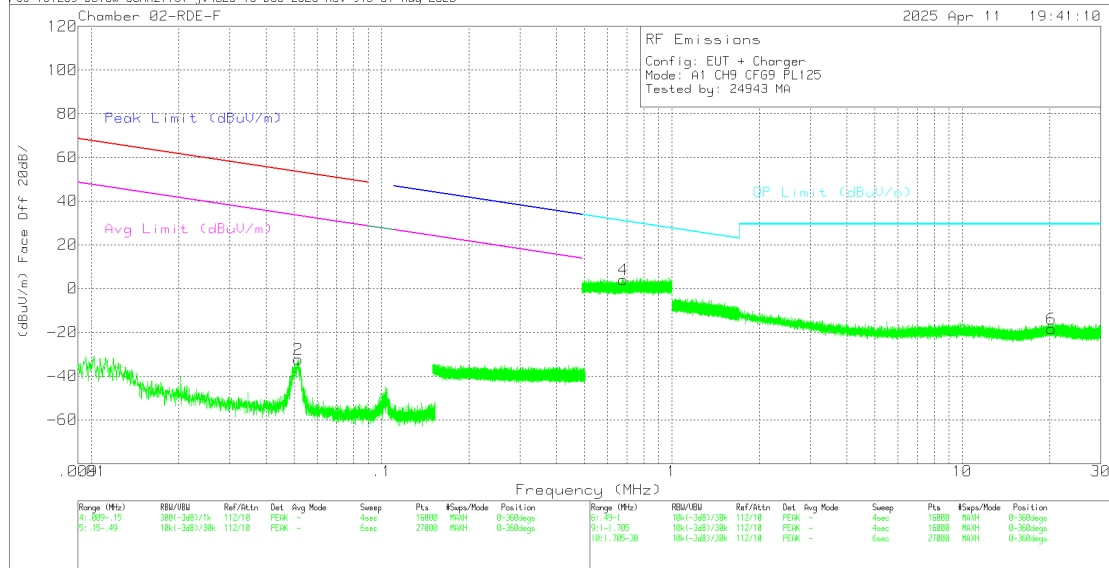
Location: Chamber 02-RDE-F

Test Date: 4/11/2025 to 4/14/2025

Ant	CH	Config	Payload	Power Setting	Frequency Range	
					9 kHz - 30 MHz	30 - 960 MHz
1	9	9	125	Max	PASS	PASS
2	5	9	125	Max	PASS	PASS
2	9	9	125	Max	PASS	PASS

9.5.1 EMISSIONS, 9 kHz – 30 MHz**ANT1 CH9 Config 9**

FCC 15.209 Below 30MHz.TST jv4323 13 Dec 2023 Rev 9.5 01 May 2023



FCC 15.209 Below 30MHz.TST jv4323 13 Dec 2023 Rev 9.5 01 May 2023

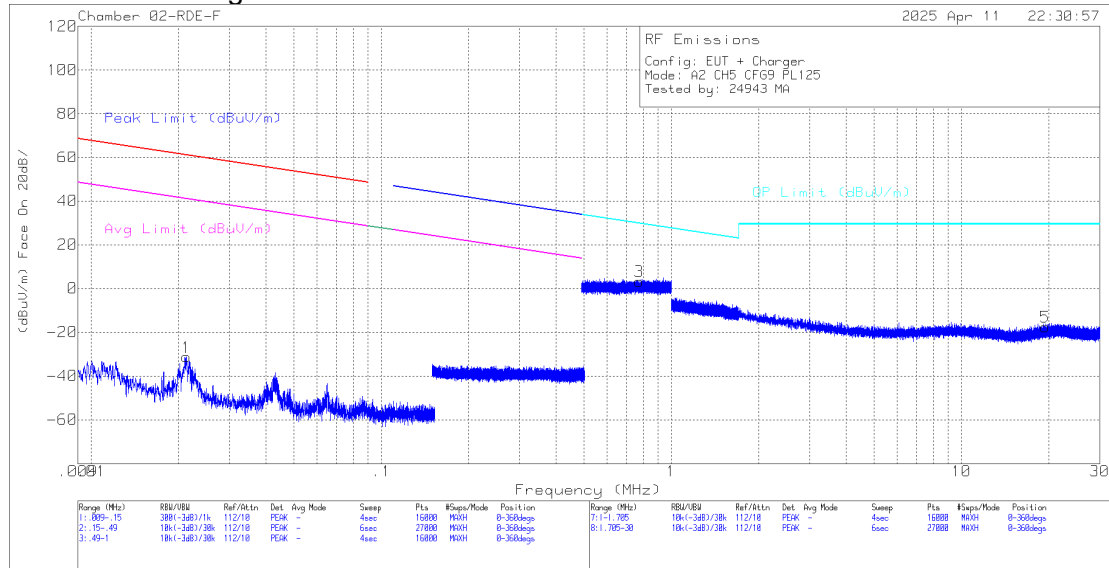
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0551	27.89	Pk	56.8	-32.7	-80	-28.01	52.76	-80.77	32.76	-60.77	0-360	Face-On
2	.0516	23.45	Pk	57.2	-32.9	-80	-32.25	53.33	-85.58	33.33	-65.58	0-360	Face-Off

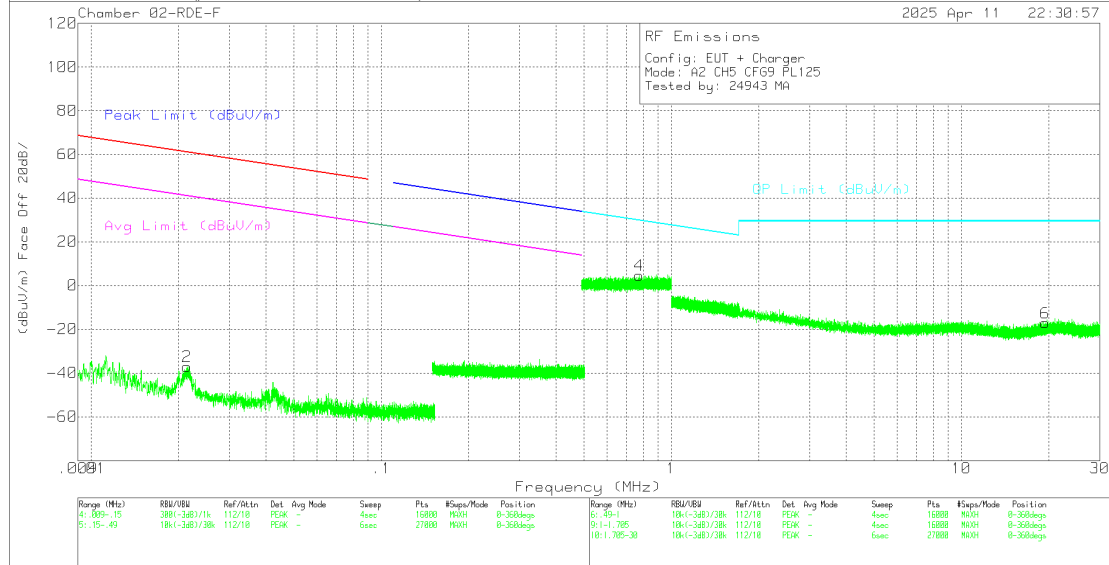
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	GP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.6802	19.38	Pk	56.4	-32.5	-40	3.28	30.96	-27.68	0-360	Face-On
4	.6804	20.26	Pk	56.4	-32.5	-40	4.16	30.96	-26.8	0-360	Face-Off
5	20.3122	20.11	Pk	33.9	-31.9	-40	-17.89	29.5	-47.39	0-360	Face-On
6	20.307	19.73	Pk	33.9	-32	-40	-18.37	29.5	-47.87	0-360	Face-Off

Pk - Peak detector

ANT2 CH5 Config 9



FCC 15.209 Below 30MHz.TST jv4323 13 Dec 2023 Rev 9.5 01 May 2023



FCC 15.209 Below 30MHz.TST jv4323 13 Dec 2023 Rev 9.5 01 May 2023

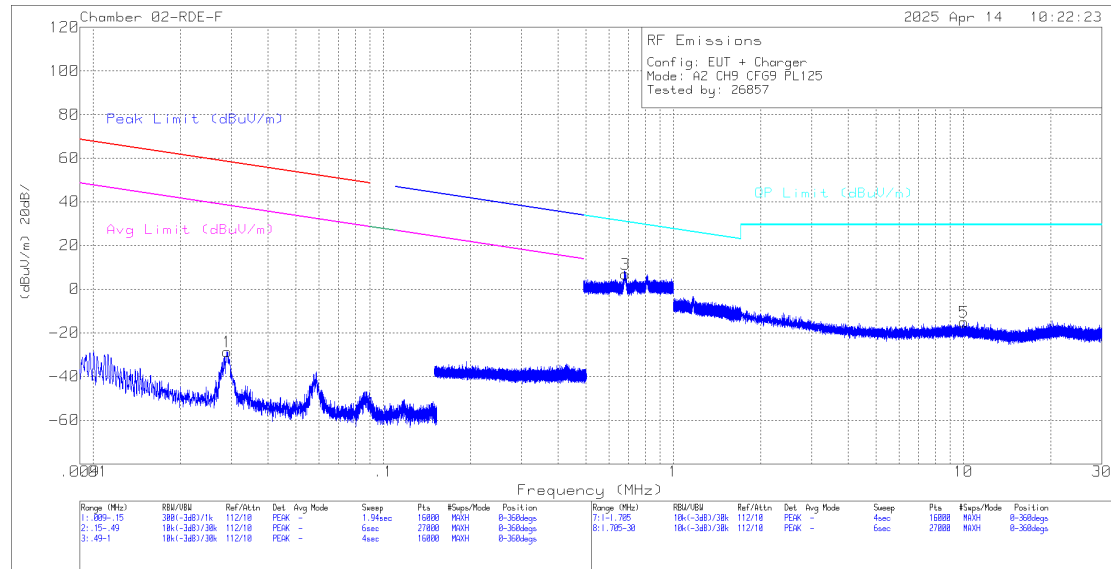
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0213	21.71	Pk	59.1	-32.1	-80	-31.29	61.01	-92.3	41.01	-72.3	0-360	Face-On
2	.0214	16.16	Pk	59	-32.1	-80	-36.94	60.96	-97.9	40.96	-77.9	0-360	Face-Off

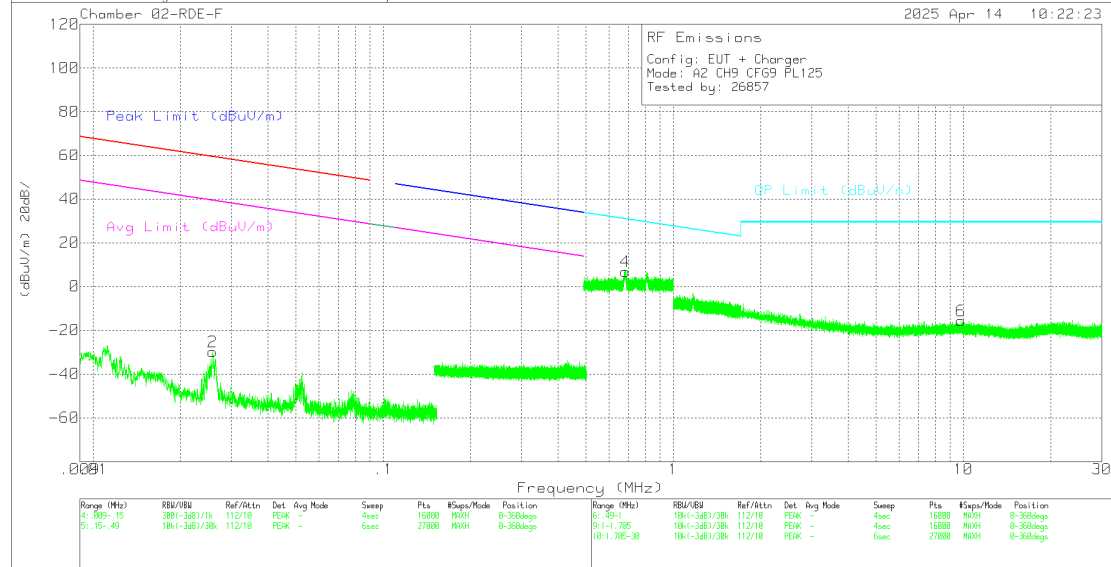
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.7747	19.16	Pk	56.5	-32.3	-40	3.36	29.83	-26.47	0-360	Face-On
4	.7748	20.6	Pk	56.5	-32.3	-40	4.8	29.83	-25.03	0-360	Face-Off
5	19.4581	20.3	Pk	33.9	-31.8	-40	-17.6	29.5	-47.1	0-360	Face-On
6	19.3994	20.79	Pk	33.9	-31.8	-40	-17.11	29.5	-46.61	0-360	Face-Off

Pk - Peak detector

ANT2 CH9 Config 9



A2 CH9 CF69 PL125.DAT_jv4323 13 Dec 2023 Rev 9.5 01 May 2023



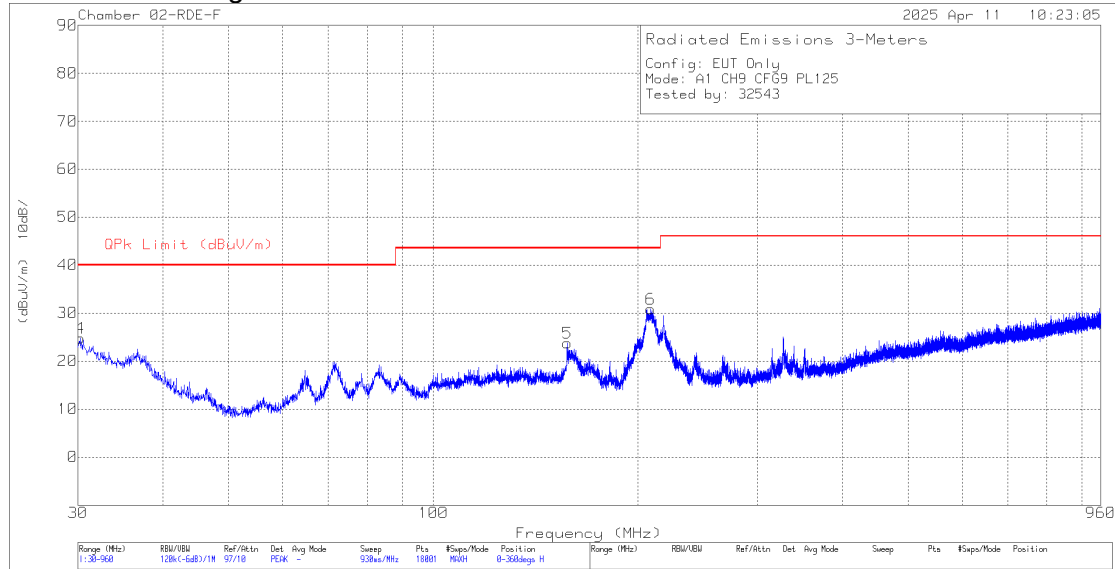
A2 CH9 CF69 PL125.DAT_jv4323 13 Dec 2023 Rev 9.5 01 May 2023

Trace Markers

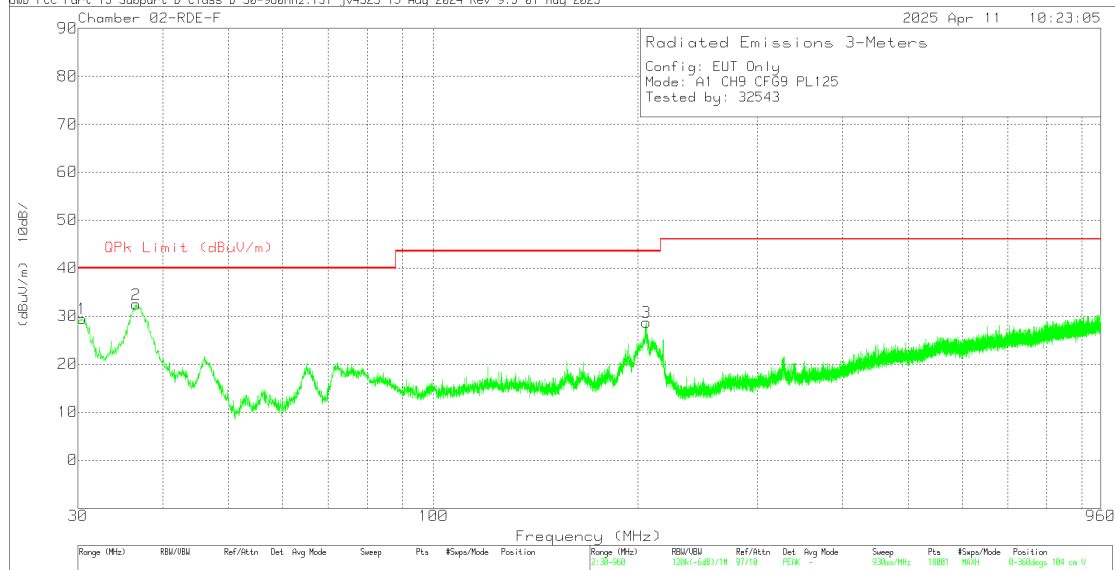
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.029	25.34	Pk	58.2	-32.1	-80	-28.56	58.32	-86.88	38.32	-66.88	0-360	Face-On
2	.0258	23.67	Pk	58.6	-32.1	-80	-29.83	59.36	-89.19	39.36	-69.19	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Passive Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.6834	23.1	Pk	56.4	-32.5	-40	7	30.92	-23.92	0-360	Face-On
4	.683	22.94	Pk	56.4	-32.5	-40	6.84	30.92	-24.08	0-360	Face-Off
5	10.0555	22.87	Pk	34.4	-32.4	-40	-15.13	29.5	-44.63	0-360	Face-On
6	9.8081	22.35	Pk	34.4	-32.3	-40	-15.55	29.5	-45.05	0-360	Face-Off

Pk - Peak detector

9.5.2 EMISSIONS, 30 - 960 MHz**ANT1 CH9 Config 9**

ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023



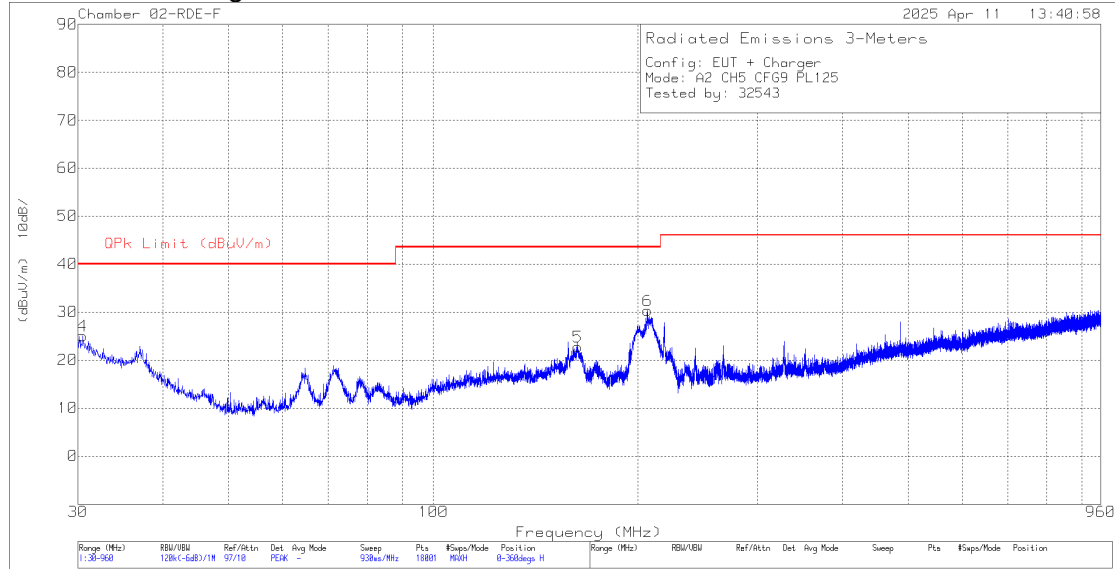
ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023

Trace Markers

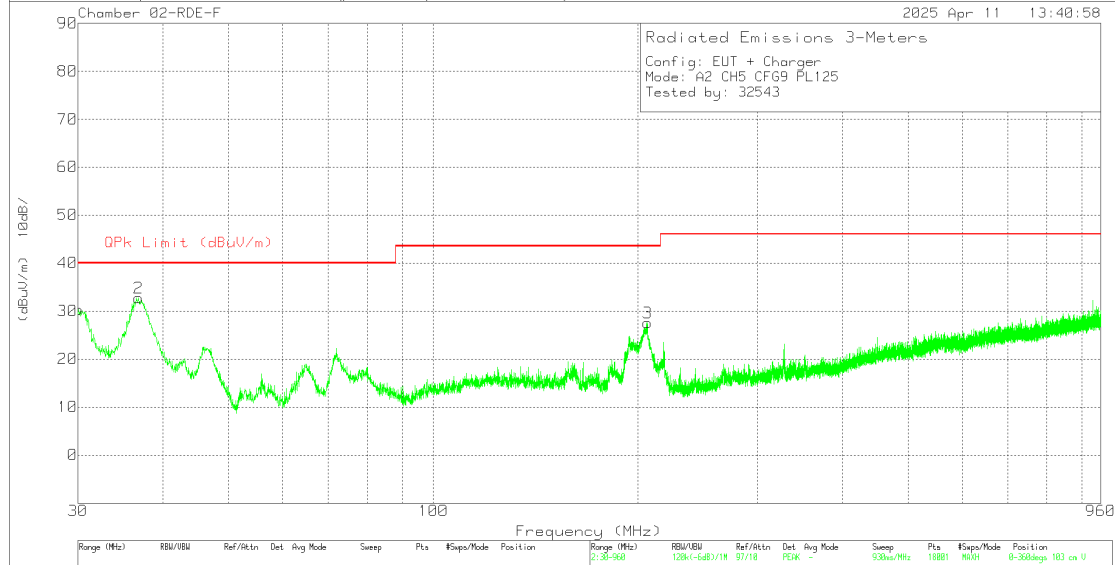
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.4133	34.28	Pk	26.7	-31.5	29.48	40	-10.52	0-360	104	V
2	36.5617	41.76	Pk	22.3	-31.6	32.46	40	-7.54	0-360	104	V
3	205.668	42.52	Pk	16.5	-30.3	28.72	43.52	-14.8	0-360	104	V
4	30.2067	29.42	Pk	26.8	-31.4	24.82	40	-15.18	0-360	299	H
5	157.411	36.32	Pk	18.2	-30.7	23.82	43.52	-19.7	0-360	199	H
6	208.923	45	Pk	16.1	-30.2	30.9	43.52	-12.62	0-360	100	H

Pk - Peak detector

ANT2 CH5 Config 9



ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023



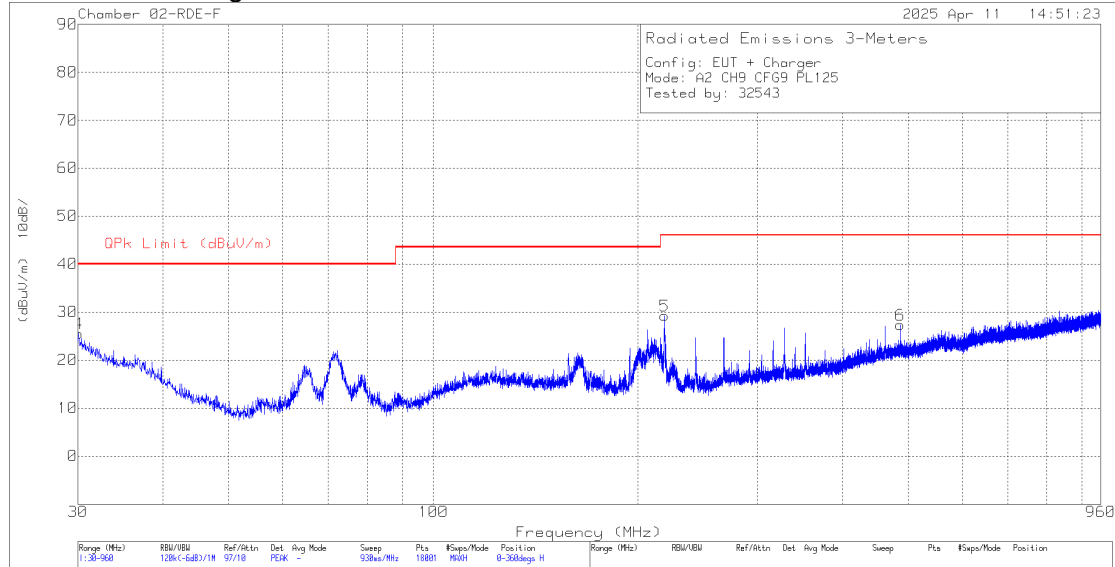
ULB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023

Trace Markers

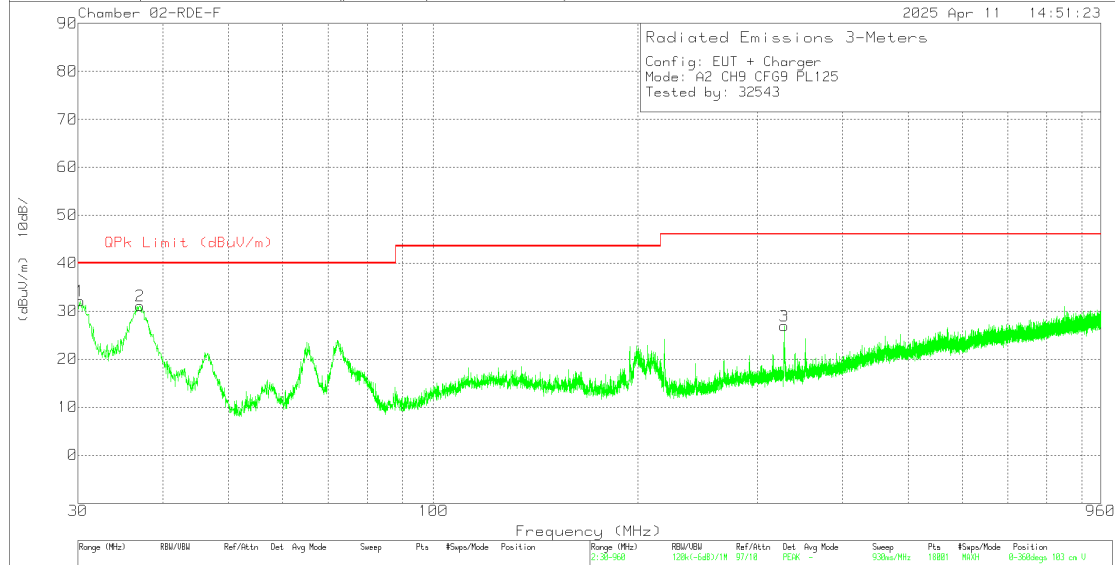
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0517	34.8	Pk	26.9	-31.4	30.3	40	-9.7	0-360	103	V
2	36.8717	42.5	Pk	22	-31.7	32.8	40	-7.2	0-360	103	V
3	206.649	41.64	Pk	16.3	-30.4	27.54	43.52	-15.98	0-360	103	V
4	30.465	29.97	Pk	26.6	-31.5	25.07	40	-14.93	0-360	399	H
5	163.094	35.42	Pk	17.9	-30.6	22.72	43.52	-20.8	0-360	199	H
6	206.649	44.41	Pk	16.3	-30.4	30.31	43.52	-13.21	0-360	199	H

Pk - Peak detector

ANT2 CH9 Config 9



UWB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023



UWB FCC Part 15 Subpart B Class B 30-960MHz.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.2583	36.94	Pk	26.7	-31.5	32.14	40	-7.86	0-360	103	V
2	37.0267	40.96	Pk	21.9	-31.7	31.16	40	-8.84	0-360	103	V
3	328.429	37.09	Pk	19.8	-30	26.89	46.02	-19.13	0-360	103	V
4	30.0517	30.04	Pk	26.9	-31.4	25.54	40	-14.46	0-360	102	H
5	218.895	43.08	Pk	16.6	-30.4	29.28	46.02	-16.74	0-360	102	H
6	486.53	32.88	Pk	23.7	-29.2	27.38	46.02	-18.64	0-360	199	H

Pk - Peak detector

9.6 AVERAGE EMISSIONS ABOVE 960 MHz**LIMITS****FCC**

15.519 (c)

Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

§15.519 (d) In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

RSS-220

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Hand-held (Outdoor) Communication, Measurement, Location Sensing, and Tracking Devices	
Frequency	E.i.r.p. in a Resolution Bandwidth of 1 MHz
960-1 610 MHz	-75.3 dBm
1.61-4.75 GHz	-70.0 dBm
4.75-10.6 GHz	-41.3 dBm
Above 10.6 GHz	-61.3 dBm

Section 5.3.1 (e) In addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Frequency	E.i.r.p. in a Resolution Bandwidth of no less than 1 kHz
1 164-1 240 MHz	-85.3 dBm
1 559-1 610 MHz	-85.3 dBm

TEST PROCEDURE

ANSI C63.10 Clause 10.3.

RSS-220 Annex

Exploratory measurements for all frequency ranges are performed with the measurement antenna at close distances to the EUT as described in ANSI C63.10 6.6.4.2. Where emissions are observed the measurement antenna is then positioned at a height of 1.5m and a distance of 1m for 18-40GHz and 0.5m for 0.96-5GHz, 1.164-1.240GHz, and 1.559-1.610GHz from the EUT and final measurements are made at the frequencies observed in the exploratory scans using the alternative measurement procedures detailed in ANSI C63.10 section 6.6.5. If no emissions are observed, a plot is made at a test distance of 1m for 18-40GHz and 0.5m for 0.96-5GHz, 1.164-1.240GHz, and 1.559-1.610GHz from the EUT to show the measurement system noise floor.

PROCEDURE FOR 0.96 TO 5 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 0.96 - 5 GHz.

The low pass filter correction factor is incorporated into the path loss for this specific test.

Distance Correction Factor from 3m to 0.5m = $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

RESULTS FOR 5 GHz TO 9 GHz

The 5 - 9 GHz frequency band is covered in Section 9.3.

PROCEDURE FOR 9 GHz TO 18 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A high pass filter with pass band frequency beyond 9 GHz is used to suppress the fundamental and perform measurement for 9 - 18 GHz.

Distance Correction Factor from 3m to 0.5m = $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

PROCEDURE FOR 1.164 TO 1.240 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 500 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 1.164 – 1.240 GHz.

Distance Correction Factor from 3m to 0.5m = $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

PROCEDURE FOR 1.559 TO 1.610 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 500 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 5 GHz is used to suppress the fundamental and perform measurement for 1.559 – 1.610 GHz.

Distance Correction Factor from 3m to 0.5m = $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

PROCEDURE FOR 18 GHz TO 40 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 1m from the EUT.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

Distance Correction Factor from 3m to 1m = $20 \cdot \log(1\text{m}/3\text{m}) = -9.54 \text{ dB}$

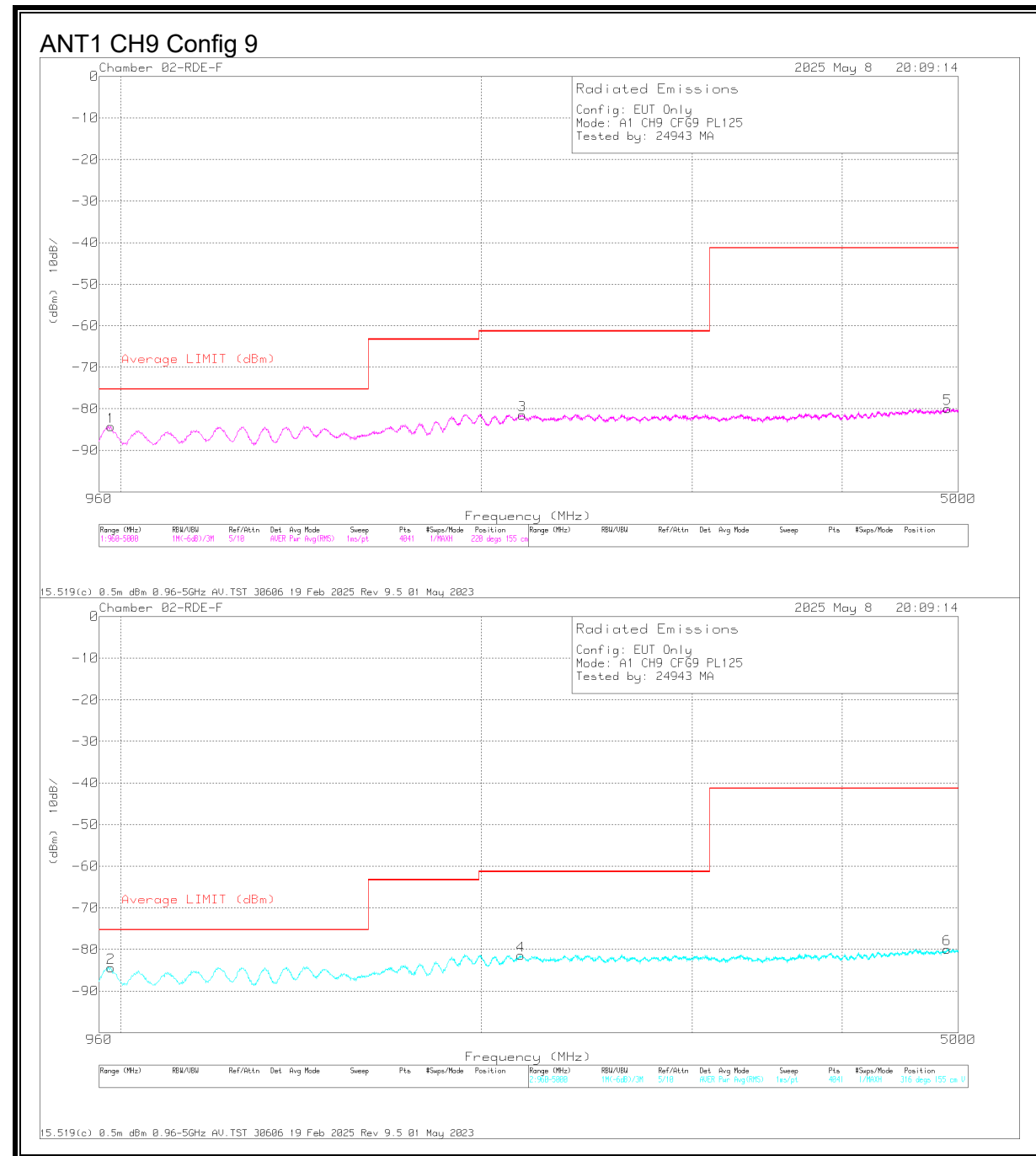
RESULTS**Average Emissions Summary**

Employee IDs: 24943, 26857

Location: Chamber 02-RDE-F

Test Date: 5/8/2025 to 6/13/2025

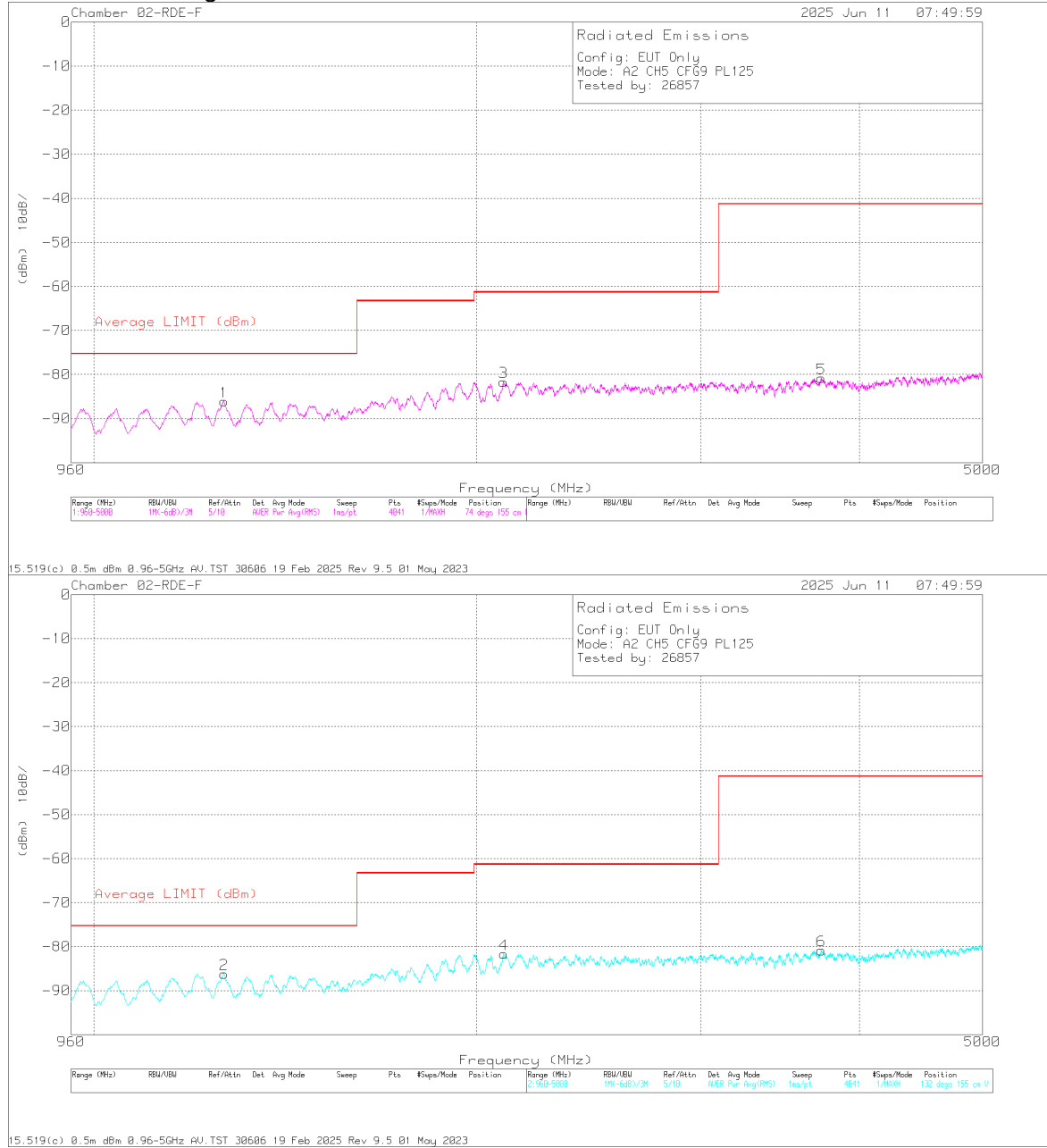
Ant	CH	Config	Payload	Power Setting	Frequency Ranges				
					1164 - 1240 MHz	1559 - 1610 MHz	0.96 - 18 GHz	18 - 26.5 GHz	26.5 - 40 GHz
1	9	9	125	Max	PASS	PASS	PASS	PASS	PASS
2	5	9	125	Max	PASS	PASS	PASS	PASS	PASS
2	9	9	125	Max	PASS	PASS	PASS	PASS	PASS

9.6.1 AVERAGE EMISSIONS, 0.96 – 5 GHz**FCC15.519 (C)****Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Average Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	982	-61.39	RMS	28	-15.6	11.8	-47.1	-84.29	-75.3	-8.99	308	155	H
2	982	-61.45	RMS	28	-15.6	11.8	-47.1	-84.35	-75.3	-9.05	53	155	V
3	2157	-61.97	RMS	31.7	-15.6	11.8	-47.4	-81.47	-61.3	-20.17	228	155	V
4	2164	-61.88	RMS	31.7	-15.6	11.8	-47.5	-81.48	-61.3	-20.18	308	155	H
5	4892	-64.41	RMS	34	-15.6	11.8	-45.7	-79.91	-41.3	-38.61	162	155	V
6	4896	-64.53	RMS	34	-15.6	11.8	-45.6	-79.93	-41.3	-38.63	110	155	H

RMS - RMS detection

ANT2 CH5 Config 9

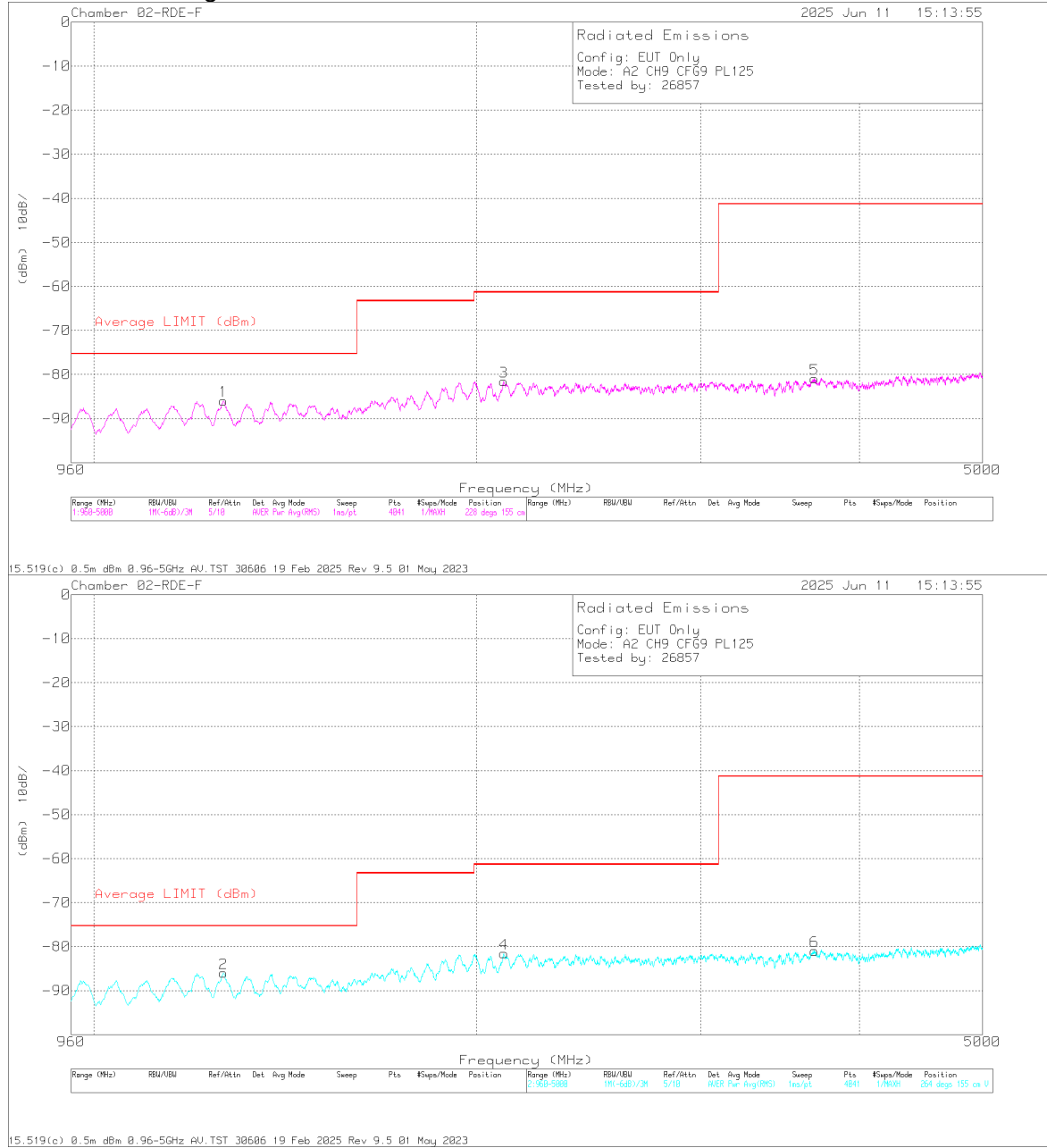


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Average LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1266	-63.45	RMS	28.5	-15.6	11.8	-47.4	-86.15	-75.3	-10.85	96	155	H
2	1266	-63.53	RMS	28.5	-15.6	11.8	-47.4	-86.23	-75.3	-10.93	44	155	V
3	2100	-62.58	RMS	31.9	-15.6	11.8	-47.2	-81.68	-61.3	-20.38	338	155	H
4	2101	-62.49	RMS	31.9	-15.6	11.8	-47.3	-81.69	-61.3	-20.39	132	155	V
5	3734	-65.13	RMS	33.3	-15.6	11.8	-45.2	-80.83	-41.3	-39.53	118	155	H
6	3734	-65.17	RMS	33.3	-15.6	11.8	-45.2	-80.87	-41.3	-39.57	242	155	V

RMS - RMS detection

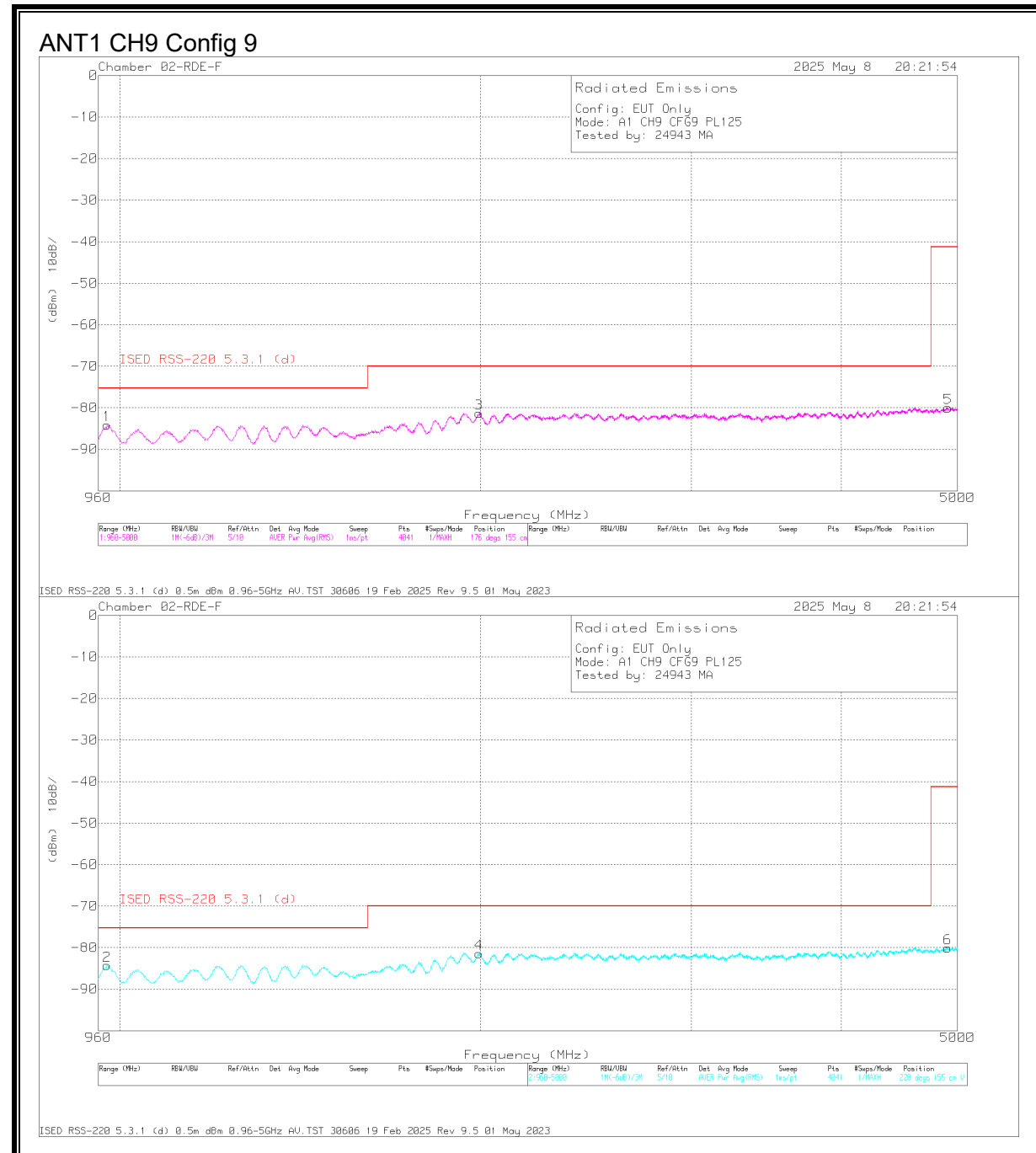
ANT2 CH9 Config 9



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	Average LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1265	-63.27	RMS	28.5	-15.6	11.8	-47.4	-85.97	-75.3	-10.67	97	155	H
2	1265	-63.31	RMS	28.5	-15.6	11.8	-47.4	-86.01	-75.3	-10.71	88	155	V
3	2101.5	-62.33	RMS	31.9	-15.6	11.8	-47.35	-81.58	-61.3	-20.28	316	155	H
4	2102	-62.26	RMS	31.9	-15.6	11.8	-47.4	-81.56	-61.3	-20.26	330	155	V
6	3688	-65.25	RMS	33.2	-15.6	11.8	-45.1	-80.95	-41.3	-39.65	272	155	H
5	3688	-65.3	RMS	33.2	-15.6	11.8	-45.1	-81	-41.3	-39.7	330	155	V

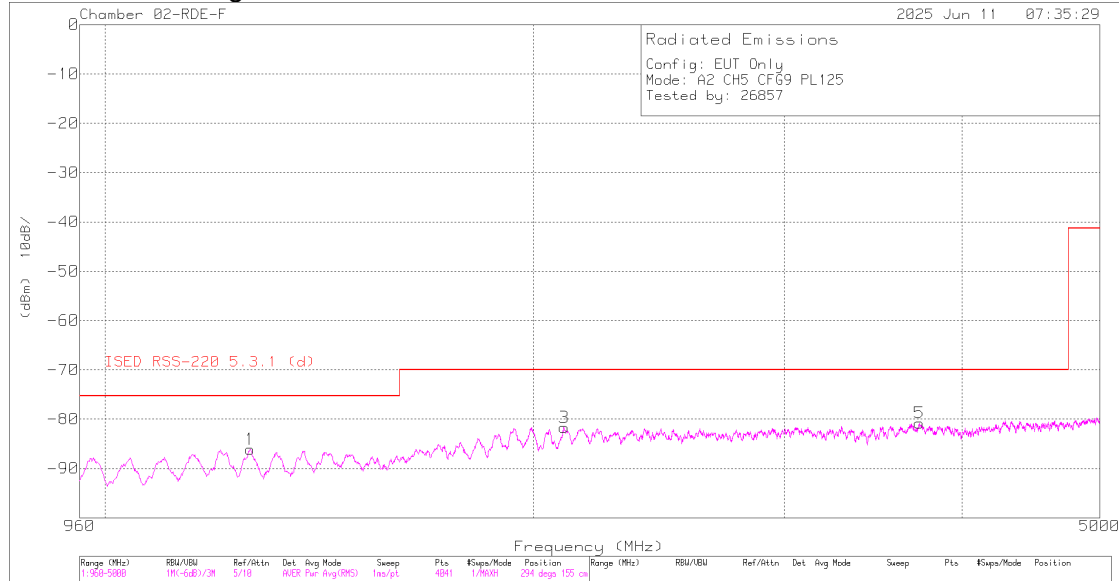
RMS - RMS detection

RSS-220 5.3.1 (d)**Trace Markers**

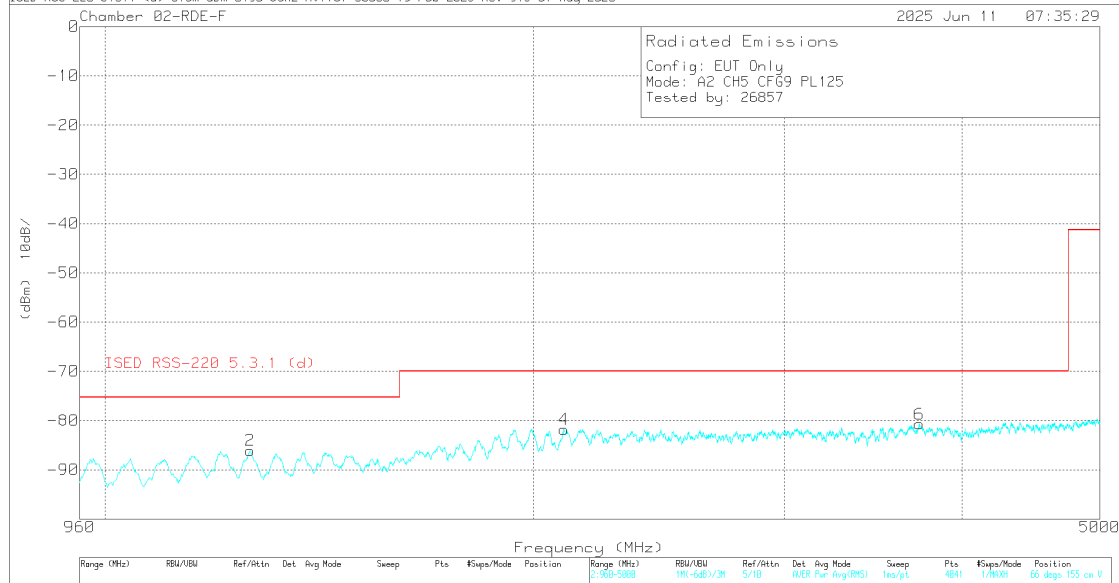
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	ISSED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	976	-61.11	RMS	28	-15.6	11.8	-47.2	-84.11	-75.3	-8.81	264	155	H
2	976	-61.28	RMS	28	-15.6	11.8	-47.2	-84.28	-75.3	-8.98	118	155	V
3	1995	-62.33	RMS	31.5	-15.6	11.8	-46.7	-81.33	-70	-11.33	308	155	H
4	1995	-62.4	RMS	31.5	-15.6	11.8	-46.7	-81.4	-70	-11.4	316	155	V
5	4909	-64.9	RMS	34	-15.6	11.8	-45.3	-80	-41.3	-38.7	242	155	H
6	4907	-64.79	RMS	34	-15.6	11.8	-45.5	-80.09	-41.3	-38.79	294	155	V

RMS - RMS detection

ANT2 CH5 Config 9



ISED RSS-220 5.3.1 (d) 0.5m dBm 0.96-5GHz AU.TST 30606 19 Feb 2025 Rev 9.5 01 May 2023

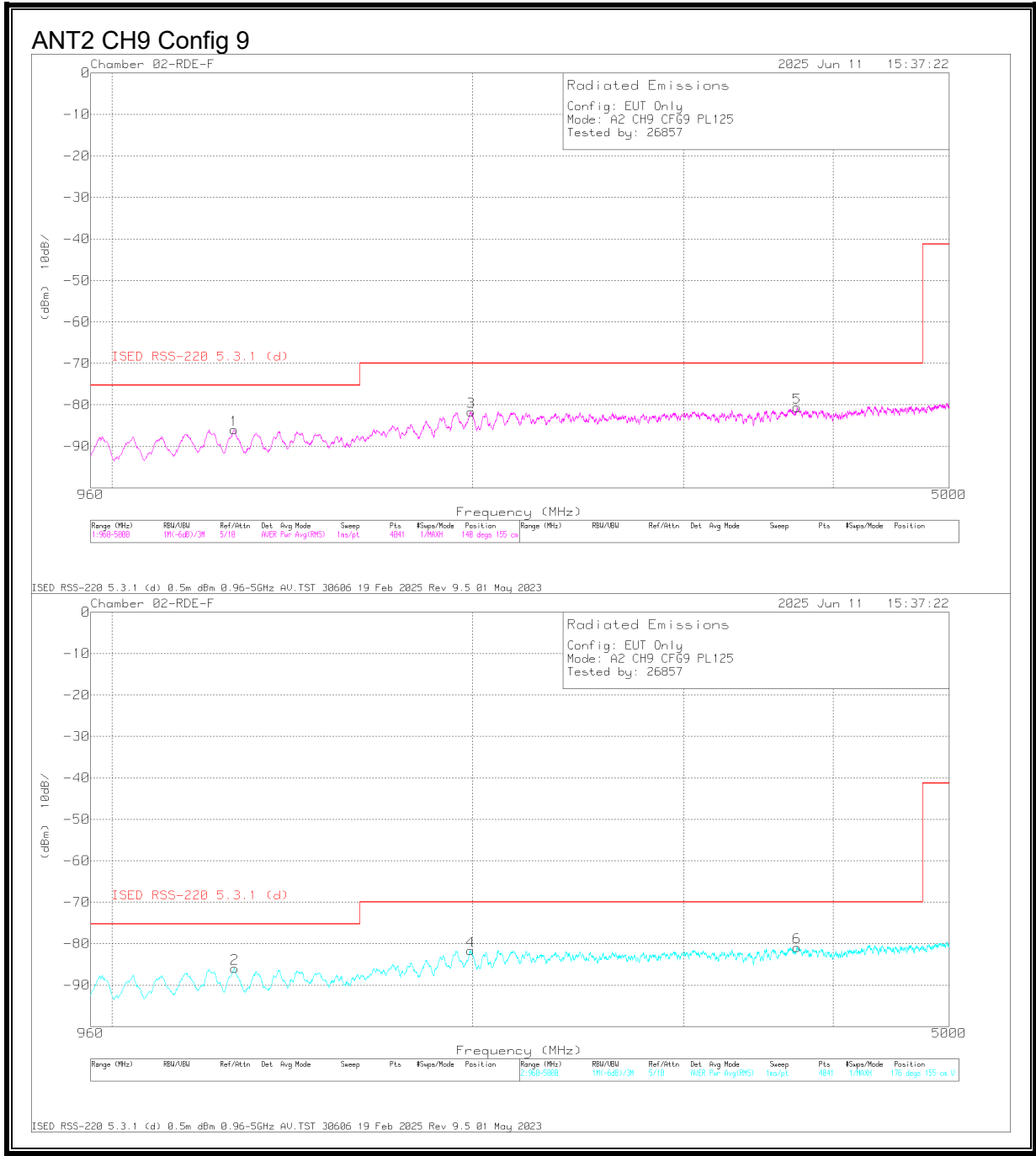


ISED RSS-220 5.3.1 (d) 0.5m dBm 0.96-5GHz AU.TST 30606 19 Feb 2025 Rev 9.5 01 May 2023

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1265	-63.39	RMS	28.5	-15.6	11.8	-47.4	-86.09	-75.3	-10.79	272	155	H
2	1265	-63.36	RMS	28.5	-15.6	11.8	-47.4	-86.06	-75.3	-10.76	330	155	V
3	2102	-62.37	RMS	31.9	-15.6	11.8	-47.4	-81.67	-70	-11.67	317	155	H
4	2101	-62.59	RMS	31.9	-15.6	11.8	-47.3	-81.79	-70	-11.79	0	155	V
5	3734	-65.07	RMS	33.3	-15.6	11.8	-45.2	-80.77	-70	-10.77	317	155	H
6	3734	-65.01	RMS	33.3	-15.6	11.8	-45.2	-80.71	-70	-10.71	22	155	V

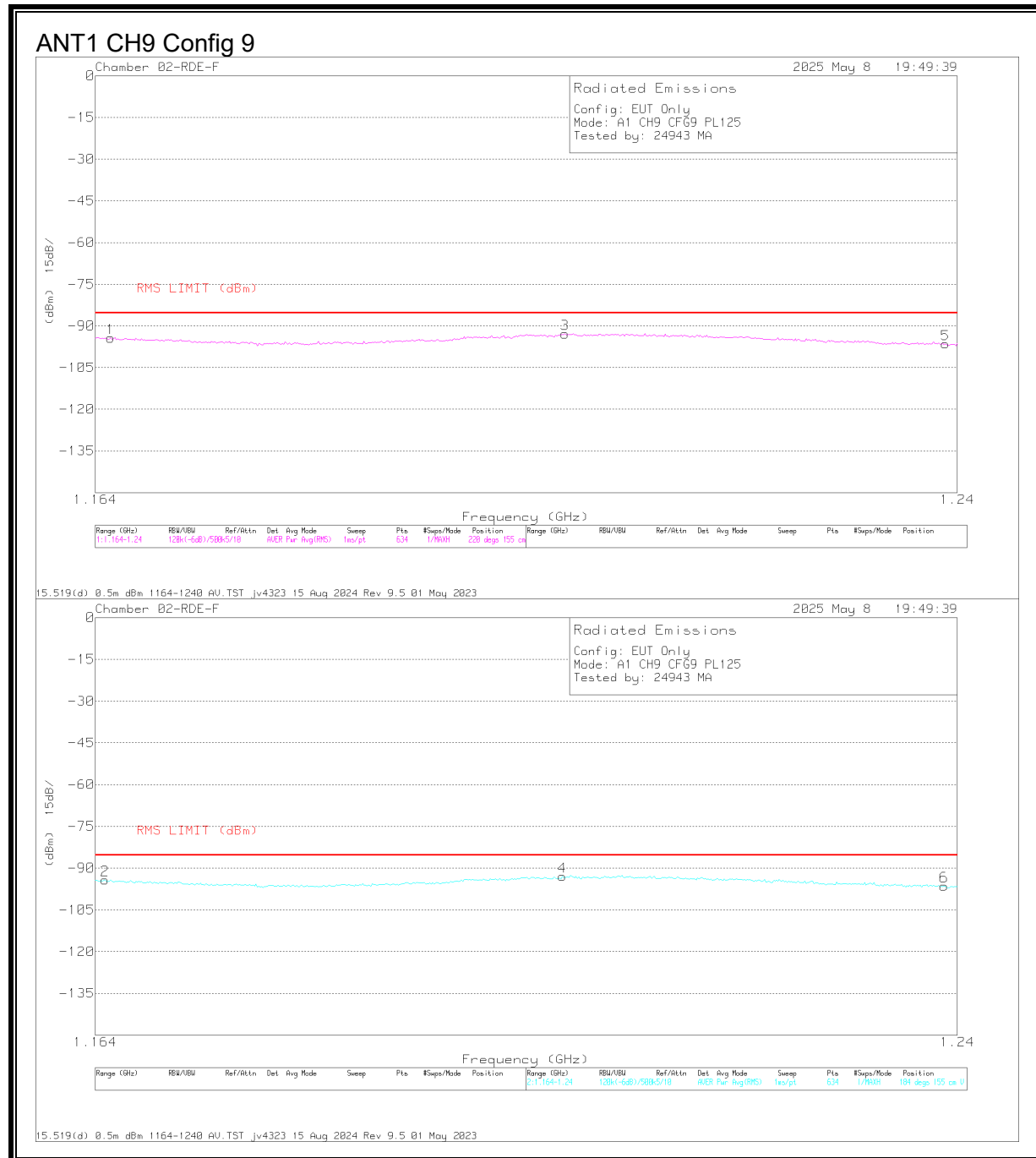
RMS - RMS detection



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1265	-63.29	RMS	28.5	-15.6	11.8	-47.4	-85.99	-75.3	-10.69	228	155	H
2	1266	-63.27	RMS	28.5	-15.6	11.8	-47.4	-85.97	-75.3	-10.67	330	155	V
3	1994	-62.63	RMS	31.5	-15.6	11.8	-46.7	-81.63	-70	-11.63	74	155	H
4	1992	-62.4	RMS	31.5	-15.6	11.8	-47	-81.7	-70	-11.7	66	155	V
5	3732	-64.81	RMS	33.3	-15.6	11.8	-45.3	-80.61	-70	-10.61	184	155	H
6	3732	-65.09	RMS	33.3	-15.6	11.8	-45.3	-80.89	-70	-10.89	66	155	V

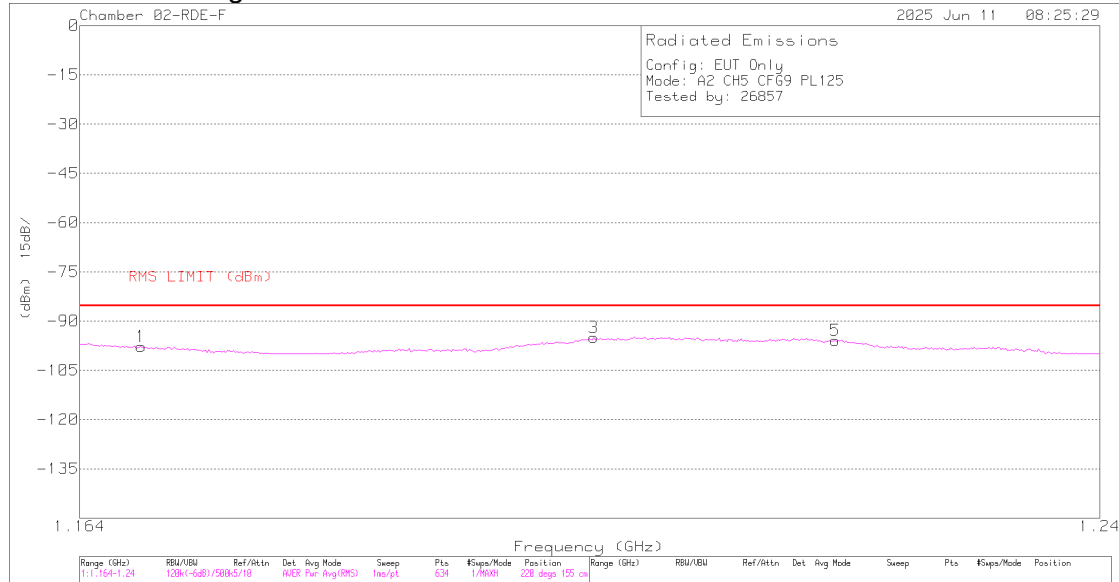
RMS - RMS detection

9.6.2 AVERAGE EMISSIONS, 1.164 – 1.240 GHz**Trace Markers**

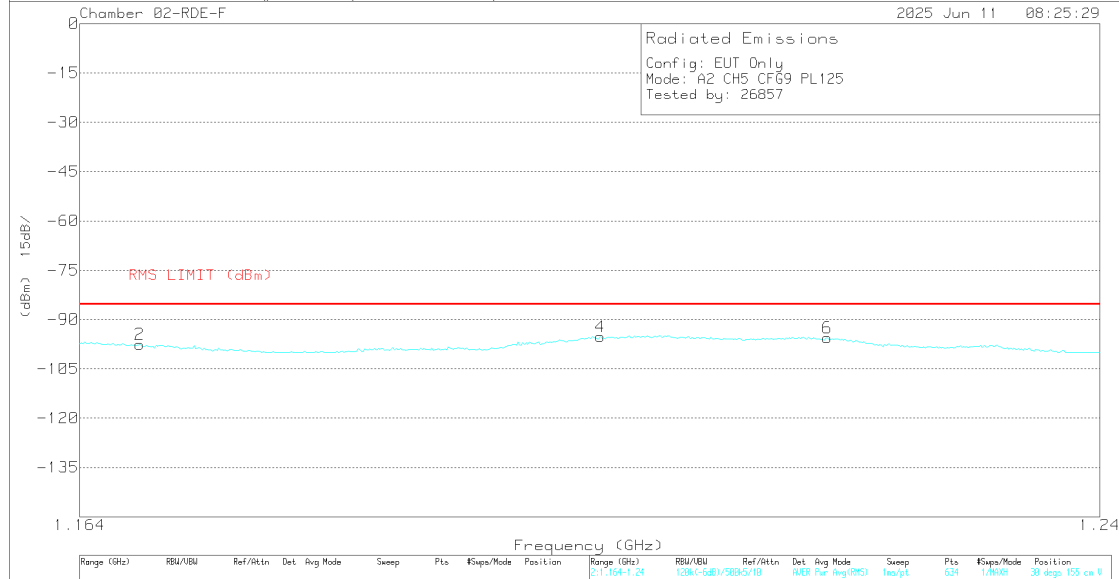
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.165321	-70.71	RMS	28	-15.6	11.8	-47.8	-94.31	-85.3	-9.01	154	155	H
2	1.16484	-70.61	RMS	28	-15.6	11.8	-47.8	-94.21	-85.3	-8.91	316	155	V
3	1.204821	-69.83	RMS	28.3	-15.6	11.8	-47.51	-92.84	-85.3	-7.54	264	155	H
4	1.204581	-69.85	RMS	28.3	-15.6	11.8	-47.65	-93	-85.3	-7.7	140	155	V
5	1.238919	-73.62	RMS	28.5	-15.6	11.8	-47.58	-96.5	-85.3	-11.2	88	155	H
6	1.238799	-73.57	RMS	28.5	-15.6	11.8	-47.56	-96.43	-85.3	-11.13	162	155	V

RMS - RMS detection

ANT2 CH5 Config 9



15.519(d) 0.5m dBm 1164-1240 AU.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023



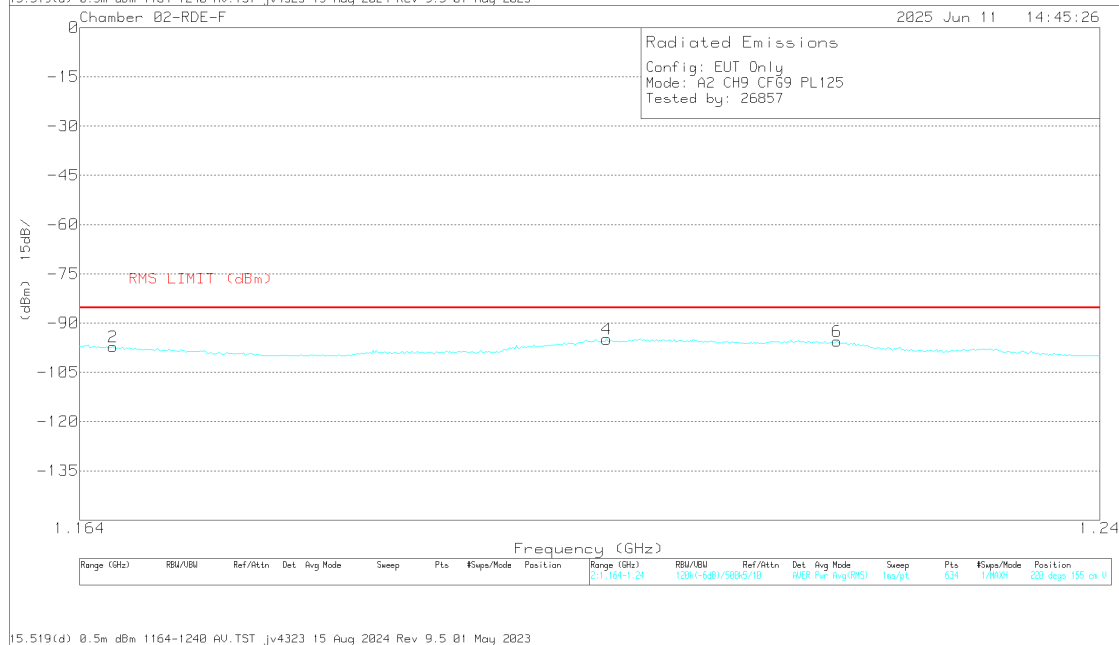
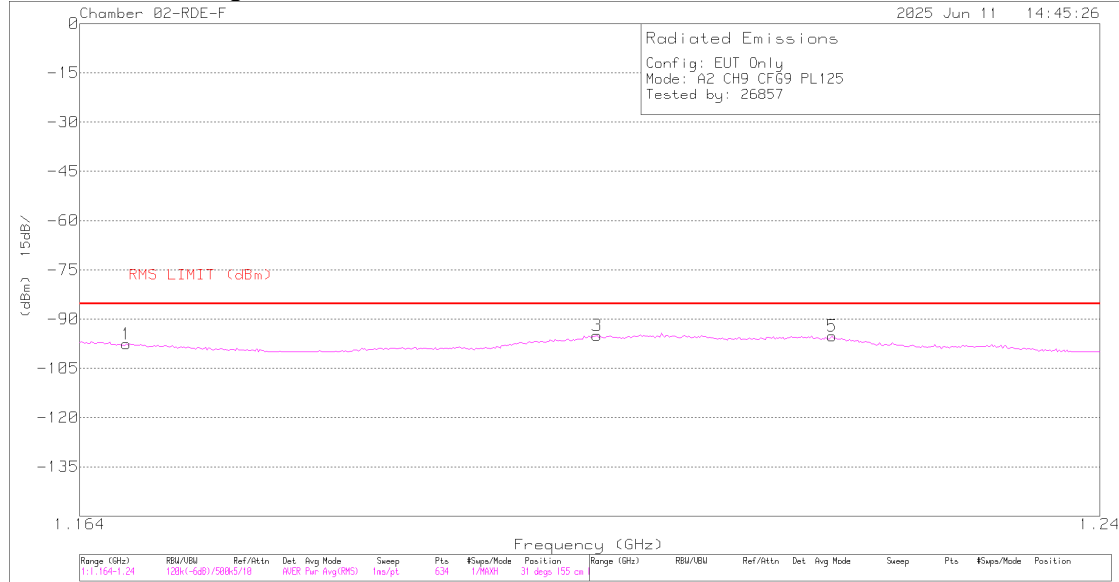
15.519(d) 0.5m dBm 1164-1240 AU.TST jv4323 15 Aug 2024 Rev 9.5 01 May 2023

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.168442	-74.15	RMS	28	-15.6	11.8	-47.79	-97.74	-85.3	-12.44	176	155	H
2	1.168322	-73.97	RMS	28	-15.6	11.8	-47.76	-97.53	-85.3	-12.23	74	155	V
3	1.2017	-71.91	RMS	28.3	-15.6	11.8	-47.57	-94.98	-85.3	-9.68	264	155	H
4	1.20218	-72.07	RMS	28.3	-15.6	11.8	-47.62	-95.19	-85.3	-9.89	338	155	V
5	1.219829	-73	RMS	28.5	-15.6	11.8	-47.57	-95.87	-85.3	-10.57	176	155	H
6	1.219229	-72.32	RMS	28.4	-15.6	11.8	-47.81	-95.53	-85.3	-10.23	316	155	V

RMS - RMS detection

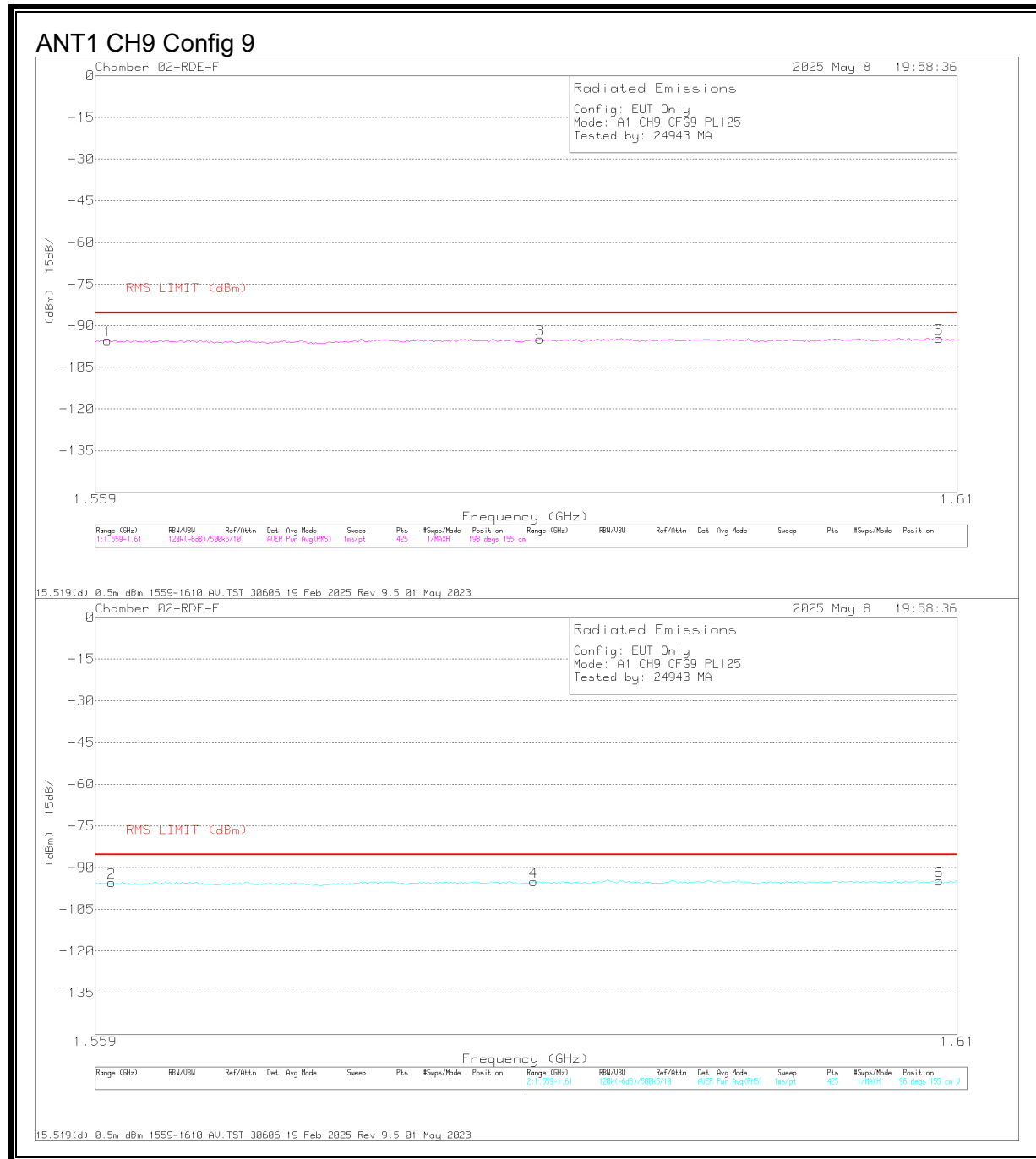
ANT2 CH9 Config 9



Trace Markers

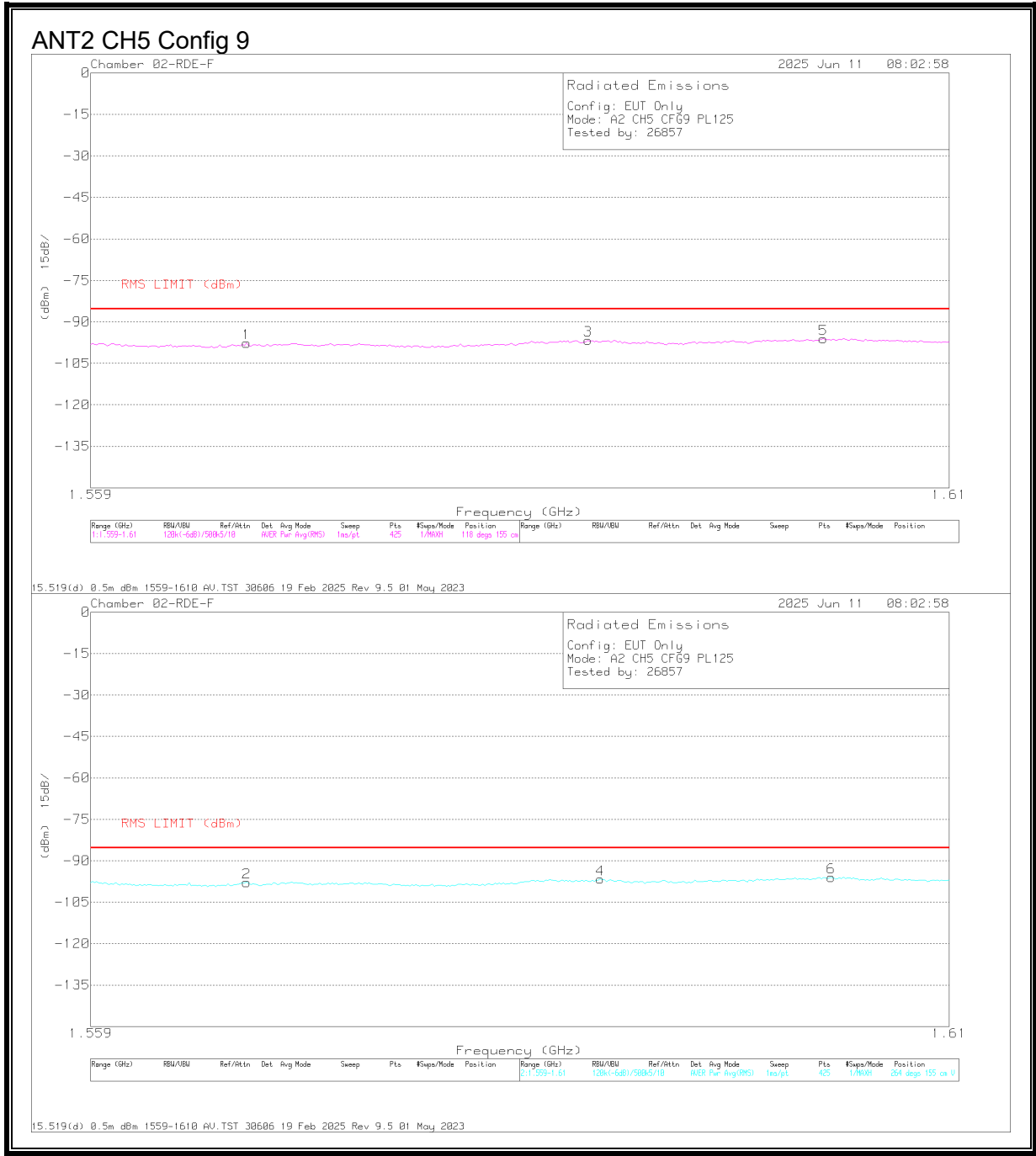
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.167362	-74.01	RMS	28	-15.6	11.8	-47.76	-97.57	-85.3	-12.27	338	155	H
2	1.166401	-73.61	RMS	28	-15.6	11.8	-47.8	-97.21	-85.3	-11.91	110	155	V
3	1.20194	-71.84	RMS	28.3	-15.6	11.8	-47.59	-94.93	-85.3	-9.63	96	155	H
4	1.20266	-71.71	RMS	28.3	-15.6	11.8	-47.67	-94.88	-85.3	-9.58	154	155	V
5	1.219589	-72.19	RMS	28.5	-15.6	11.8	-47.66	-95.15	-85.3	-9.85	360	155	H
6	1.219949	-72.74	RMS	28.5	-15.6	11.8	-47.52	-95.56	-85.3	-10.26	308	155	V

RMS - RMS detection

9.6.3 AVERAGE EMISSIONS, 1.559 – 1.610 GHz**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.559722	-72.65	RMS	28.2	-15.6	11.8	-47	-95.25	-85.3	-9.95	308	155	H
2	1.559962	-72.74	RMS	28.2	-15.6	11.8	-47	-95.34	-85.3	-10.04	316	155	V
3	1.585101	-71.8	RMS	28.1	-15.6	11.8	-47.33	-94.83	-85.3	-9.53	0	155	H
4	1.584741	-71.94	RMS	28.1	-15.6	11.8	-47.4	-95.04	-85.3	-9.74	74	155	V
5	1.608917	-71.02	RMS	28.1	-15.6	11.8	-47.89	-94.61	-85.3	-9.31	22	155	H
6	1.608917	-71.13	RMS	28.1	-15.6	11.8	-47.89	-94.72	-85.3	-9.42	162	155	V

RMS - RMS detection

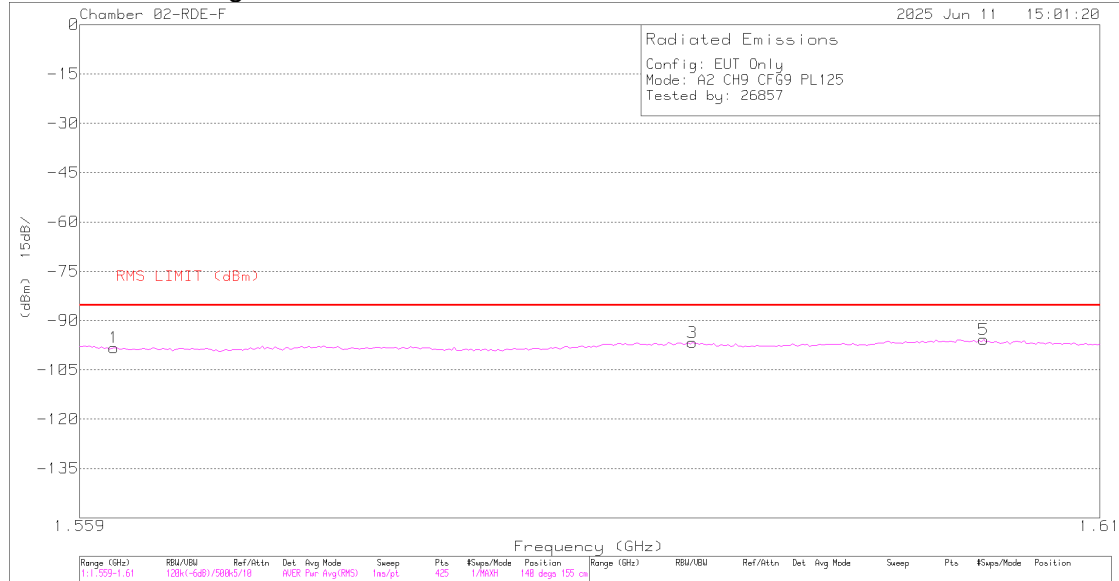


Trace Markers

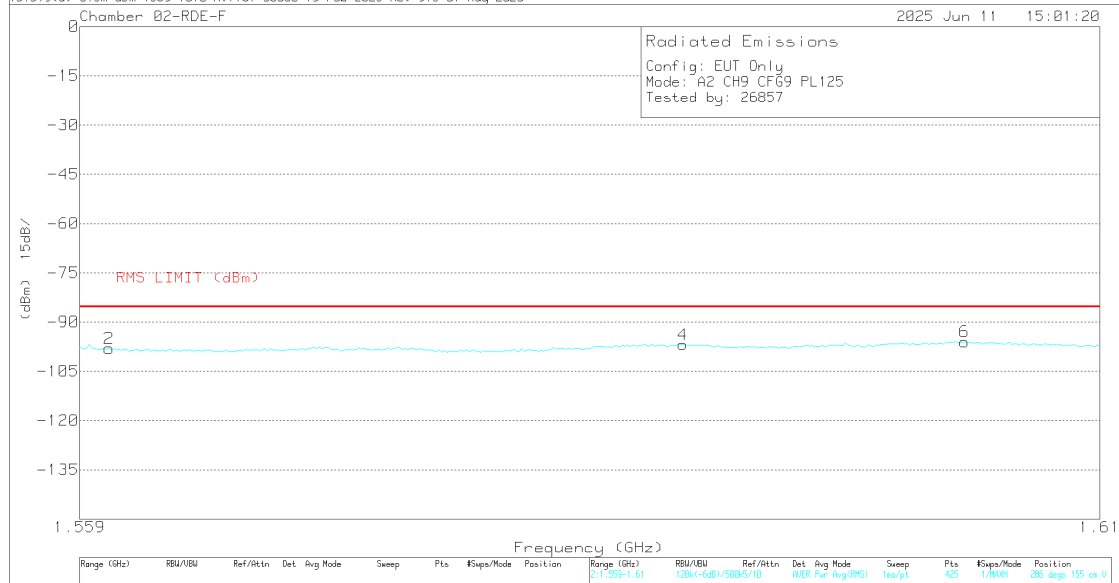
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.568142	-74.96	RMS	28.1	-15.6	11.8	-47	-97.66	-85.3	-12.36	184	155	H
2	1.568142	-75.12	RMS	28.1	-15.6	11.8	-47	-97.82	-85.3	-12.52	220	155	V
3	1.588349	-73.2	RMS	28.1	-15.6	11.8	-47.69	-96.59	-85.3	-11.29	140	155	H
4	1.589071	-73.68	RMS	28.1	-15.6	11.8	-47.31	-96.69	-85.3	-11.39	154	155	V
5	1.602422	-72.71	RMS	28.1	-15.6	11.8	-47.72	-96.13	-85.3	-10.83	162	155	H
6	1.602903	-72.68	RMS	28.1	-15.6	11.8	-47.62	-96	-85.3	-10.7	330	155	V

RMS - RMS detection

ANT2 CH9 Config 9



15.519(d) 0.5m dBm 1559-1610 AU.TST 30606 19 Feb 2025 Rev 9.5 01 May 2023

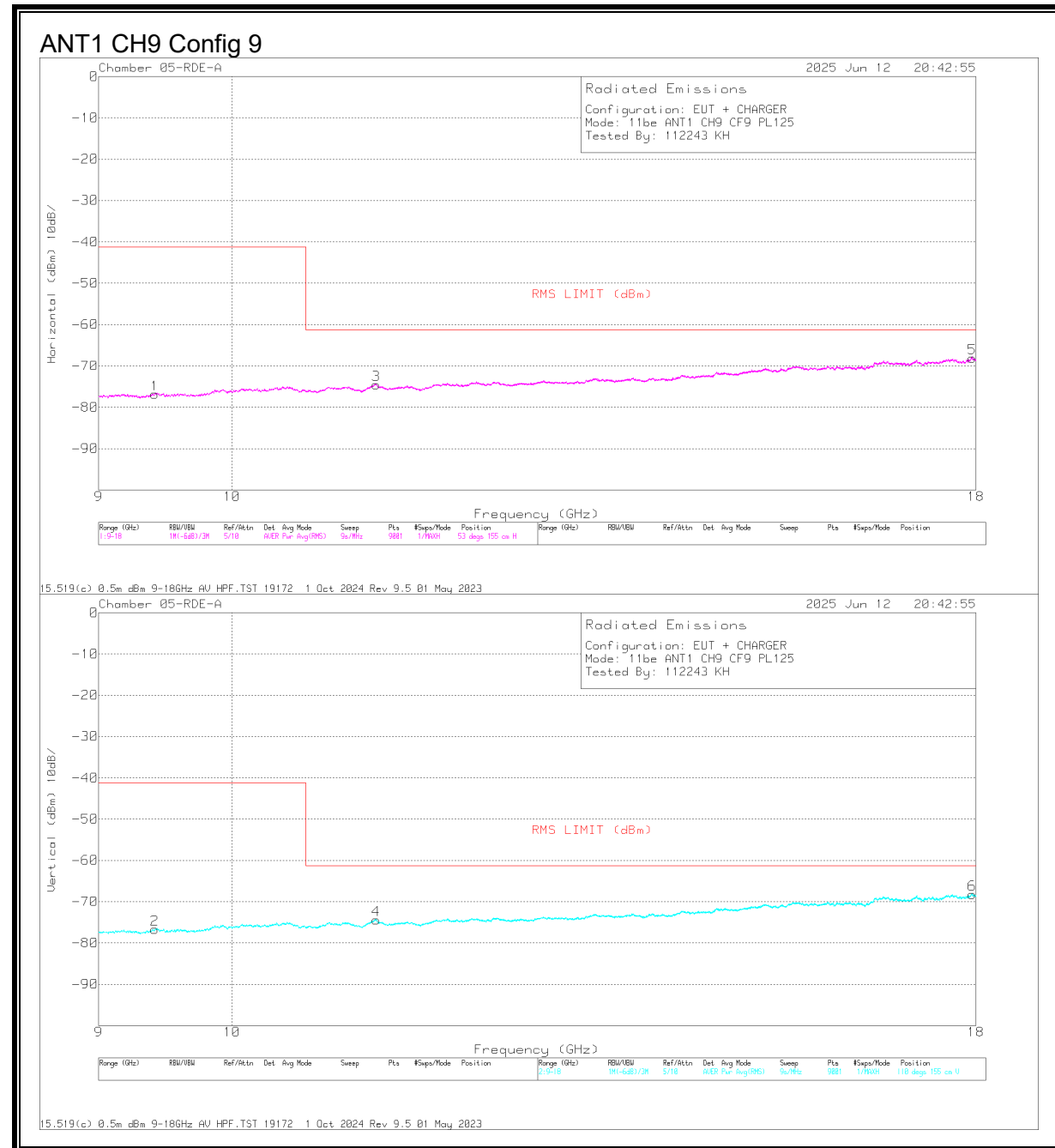


15.519(d) 0.5m dBm 1559-1610 AU.TST 30606 19 Feb 2025 Rev 9.5 01 May 2023

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.560684	-75.49	RMS	28.2	-15.6	11.8	-47.14	-98.23	-85.3	-12.93	118	155	H
2	1.560443	-75.33	RMS	28.2	-15.6	11.8	-47.09	-98.02	-85.3	-12.72	286	155	V
3	1.589432	-73.66	RMS	28.1	-15.6	11.8	-47.34	-96.7	-85.3	-11.4	294	155	H
4	1.58895	-73.81	RMS	28.1	-15.6	11.8	-47.33	-96.84	-85.3	-11.54	0	155	V
5	1.604106	-72.44	RMS	28.1	-15.6	11.8	-47.64	-95.78	-85.3	-10.48	272	155	H
6	1.603144	-72.7	RMS	28.1	-15.6	11.8	-47.6	-96	-85.3	-10.7	242	155	V

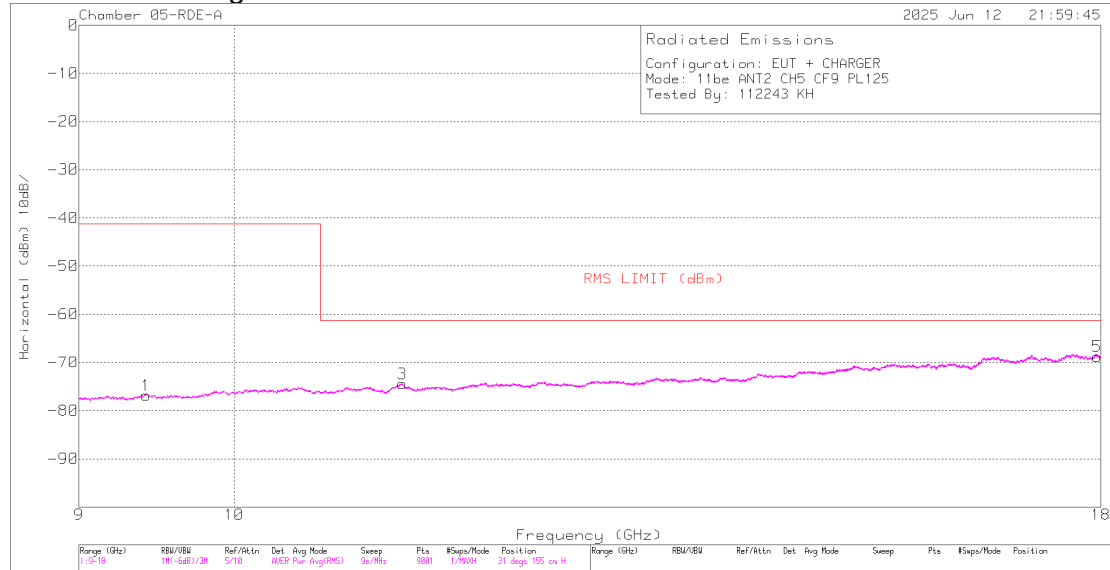
RMS - RMS detection

9.6.4 AVERAGE EMISSIONS, 9 – 18 GHz**Trace Markers**

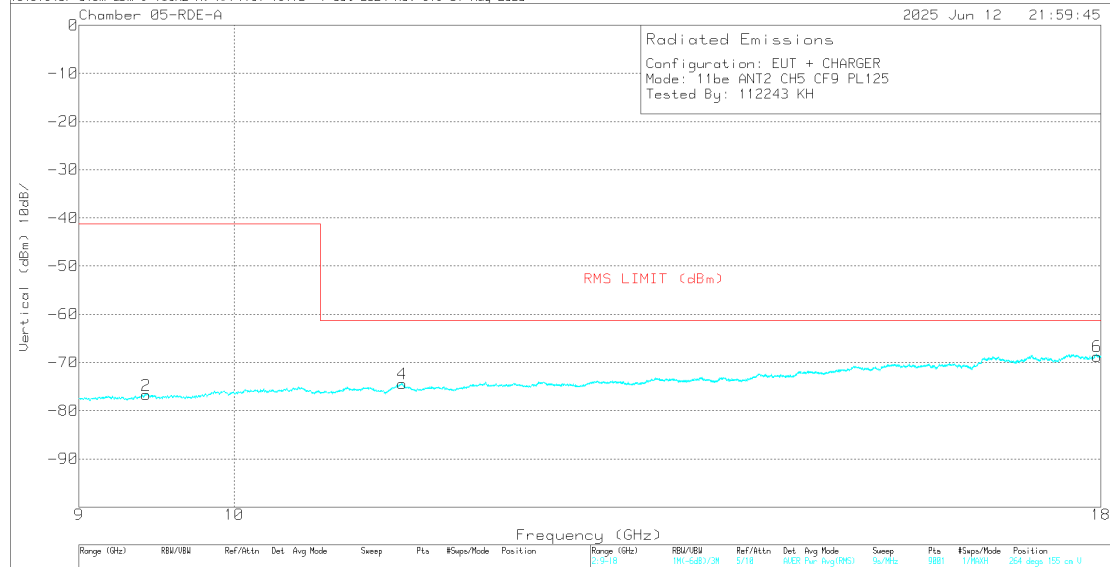
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.408	-65.77	RMS	36.3	-15.6	11.8	-43.6	-76.87	-41.3	-35.57	30	155	H
2	9.408	-65.63	RMS	36.3	-15.6	11.8	-43.6	-76.73	-41.3	-35.43	197	155	V
3	11.207	-67.89	RMS	38	-15.6	11.8	-40.8	-74.49	-61.3	-13.19	141	155	H
4	11.207	-67.83	RMS	38	-15.6	11.8	-40.8	-74.43	-61.3	-13.13	0	155	V
5	17.948	-71.45	RMS	41.3	-15.6	11.8	-34.2	-68.15	-61.3	-6.85	30	155	H
6	17.948	-71.49	RMS	41.3	-15.6	11.8	-34.2	-68.19	-61.3	-6.89	66	155	V

RMS - RMS detection

ANT2 CH5 Config 9



15.519(c) 0.5m dBm 9-18GHz AV HPF.TST 19172 1 Oct 2024 Rev 9.5 01 May 2023



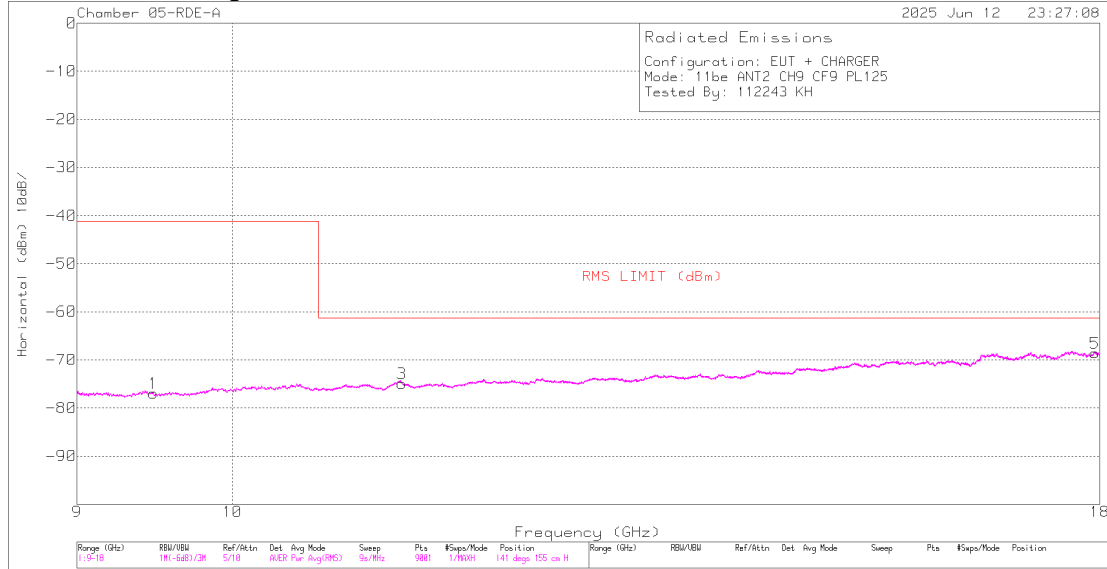
15.519(c) 0.5m dBm 9-18GHz AV HPF.TST 19172 1 Oct 2024 Rev 9.5 01 May 2023

Trace Markers

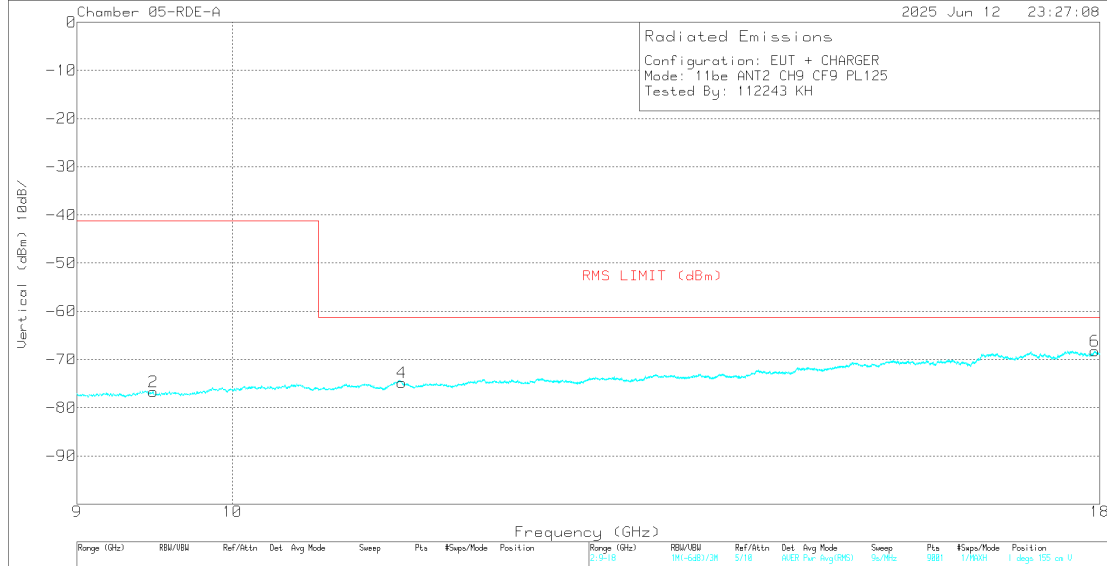
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.42	-65.62	RMS	36.3	-15.6	11.8	-43.7	-76.82	-41.3	-35.52	118	155	H
2	9.42	-65.55	RMS	36.3	-15.6	11.8	-43.7	-76.75	-41.3	-35.45	329	155	V
3	11.207	-67.83	RMS	38	-15.6	11.8	-40.8	-74.43	-61.3	-13.13	207	155	H
4	11.207	-67.77	RMS	38	-15.6	11.8	-40.8	-74.37	-61.3	-13.07	44	155	V
5	17.955	-71.96	RMS	41.2	-15.6	11.8	-34.2	-68.76	-61.3	-7.46	207	155	H
6	17.955	-71.97	RMS	41.2	-15.6	11.8	-34.2	-68.77	-61.3	-7.47	132	155	V

RMS - RMS detection

ANT2 CH9 Config 9



15.519(c) 0.5m dBm 9-18GHz AV HPF.TST 19172 1 Oct 2024 Rev 9.5 01 May 2023

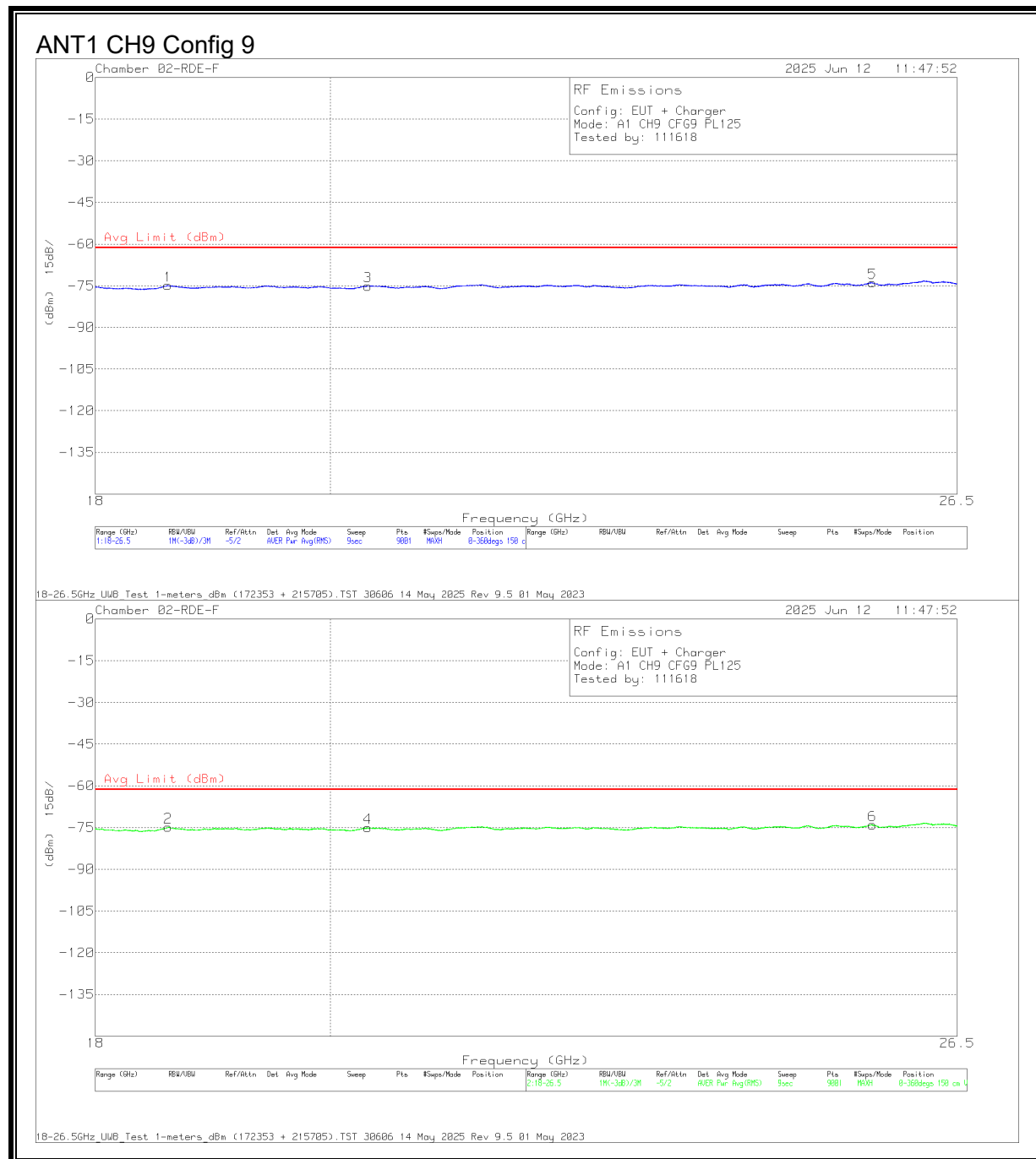


15.519(c) 0.5m dBm 9-18GHz AV HPF.TST 19172 1 Oct 2024 Rev 9.5 01 May 2023

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206806 ACF (dB/m)	Dist. Corr. (dB)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading (dBm)	RMS LIMIT (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.478	-65.99	RMS	36.5	-15.6	11.8	-43.6	-76.89	-41.3	-35.59	338	155	H
2	9.478	-65.82	RMS	36.5	-15.6	11.8	-43.6	-76.72	-41.3	-35.42	220	155	V
3	11.216	-67.99	RMS	38	-15.6	11.8	-41.1	-74.89	-61.3	-13.59	53	155	H
4	11.216	-67.87	RMS	38	-15.6	11.8	-41.1	-74.77	-61.3	-13.47	66	155	V
5	17.94	-71.86	RMS	41.3	-15.6	11.8	-34.2	-68.56	-61.3	-7.26	163	155	H
6	17.94	-71.53	RMS	41.3	-15.6	11.8	-34.2	-68.23	-61.3	-6.93	1	155	V

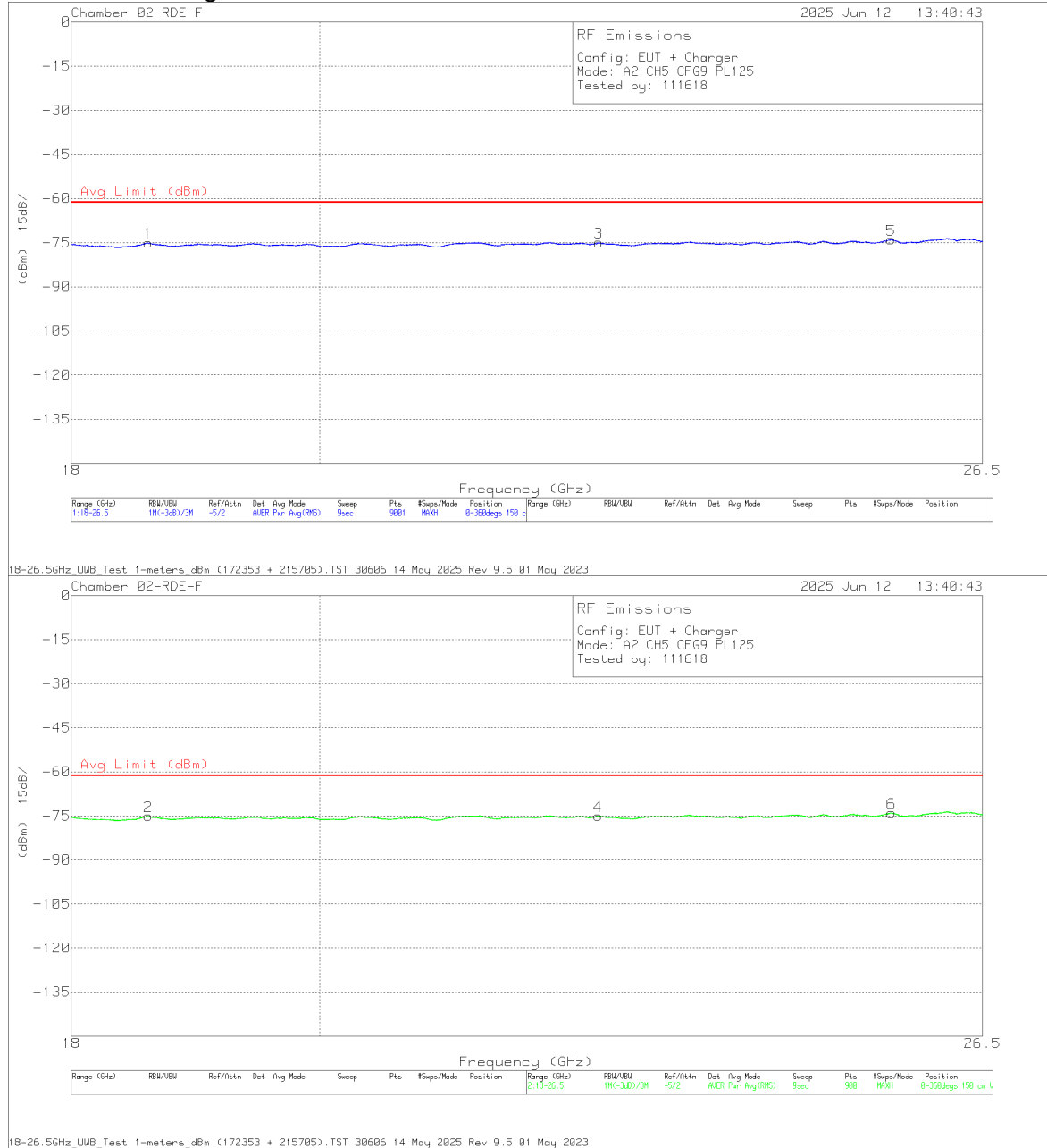
RMS - RMS detection

9.6.5 AVERAGE EMISSIONS, 18 – 26.5 GHz**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81139 ACF (dB/m)	CBL (dB)	CBL/AMP	Dist Corr (dB)	Conv. Fact. (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.595944	-66.47	RMS	32.9	-61	17.4	-9.5	11.8	-74.87	-61.3	-13.57	0-360	150	H
2	18.597833	-66.44	RMS	32.9	-61	17.4	-9.5	11.8	-74.84	-61.3	-13.54	0-360	150	V
3	20.343166	-68.62	RMS	33.4	-60.4	18.2	-9.5	11.8	-75.12	-61.3	-13.82	0-360	150	H
4	20.341277	-68.49	RMS	33.4	-60.4	18.2	-9.5	11.8	-74.99	-61.3	-13.69	0-360	150	V
6	25.509274	-70.07	RMS	34.9	-61.4	20.4	-9.5	11.8	-73.87	-61.3	-12.57	0-360	150	H
5	25.509274	-70.21	RMS	34.9	-61.4	20.4	-9.5	11.8	-74.01	-61.3	-12.71	0-360	150	V

RMS - RMS detection

ANT2 CH5 Config 9

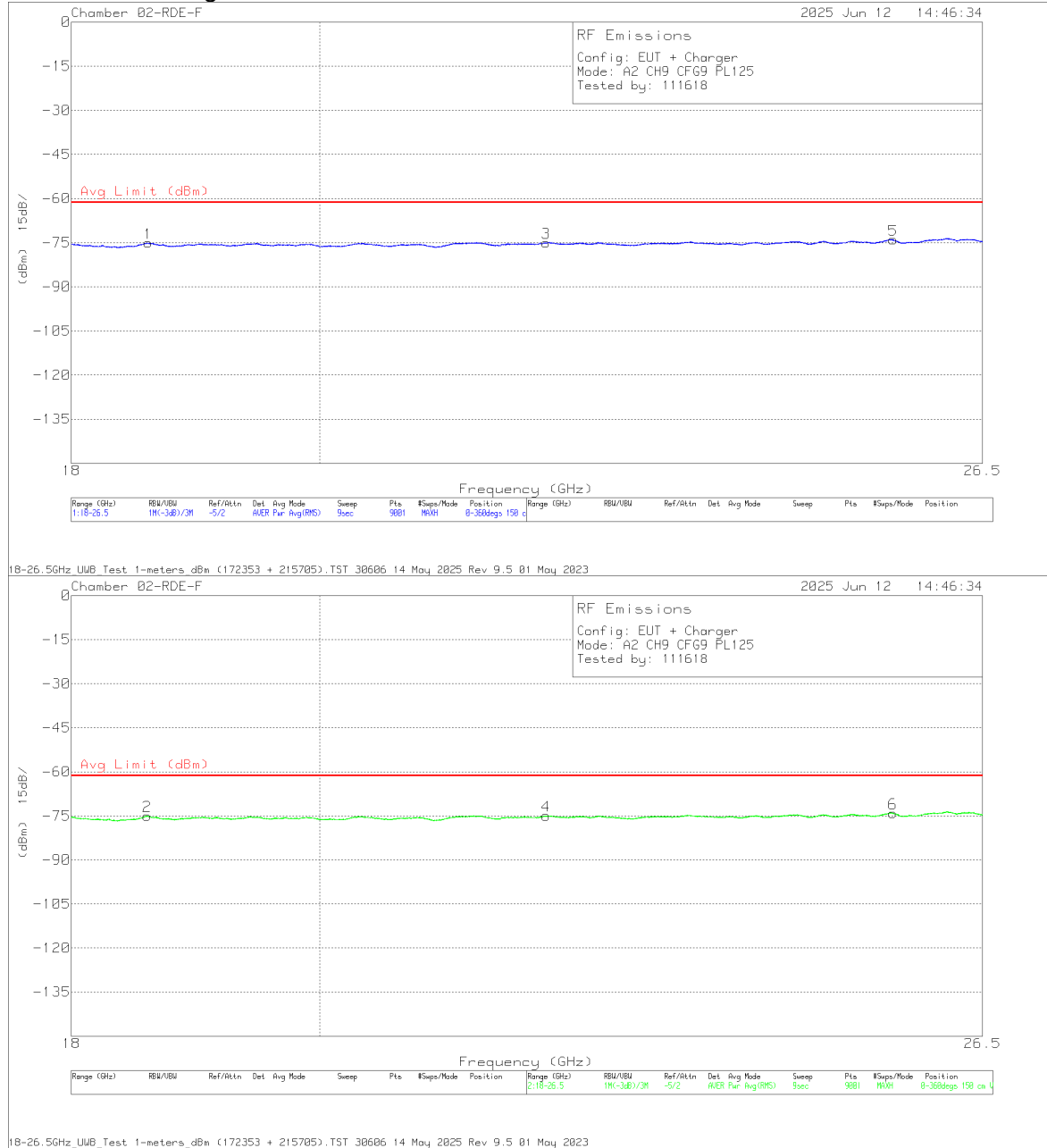


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81139 ACF (dB/m)	CBL (dB)	CBL/AMP	Dist Corr (dB)	Conv. Fact. (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.597833	-66.6	RMS	32.9	-61	17.4	-9.5	11.8	-75	-61.3	-13.7	0-360	150	H
2	18.596889	-66.65	RMS	32.9	-61	17.4	-9.5	11.8	-75.05	-61.3	-13.75	0-360	150	V
3	22.516331	-69.02	RMS	34	-61.3	19.1	-9.5	11.8	-74.92	-61.3	-13.62	0-360	150	H
4	22.50972	-69.22	RMS	34	-61.2	19.1	-9.5	11.8	-75.02	-61.3	-13.72	0-360	150	V
5	25.490385	-70.16	RMS	34.9	-61.4	20.4	-9.5	11.8	-73.96	-61.3	-12.66	0-360	150	H
6	25.496052	-70.2	RMS	34.9	-61.4	20.4	-9.5	11.8	-74	-61.3	-12.7	0-360	150	V

RMS - RMS detection

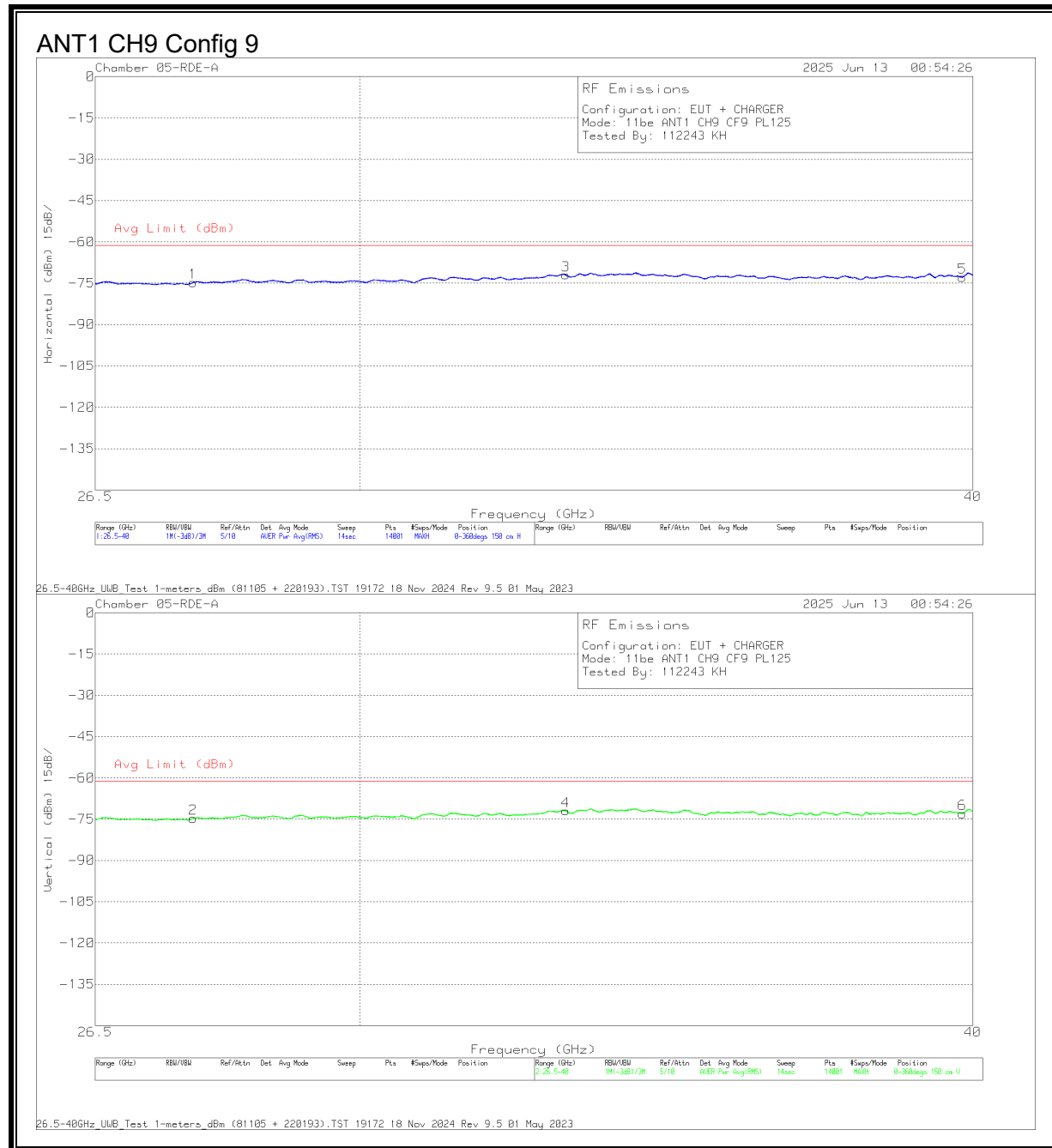
ANT2 CH9 Config 9



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81139 ACF (dB/m)	CBL (dB)	CBL/AMP	Dist Corr (dB)	Conv. Fact. (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.597833	-66.64	RMS	32.9	-61	17.4	-9.5	11.8	-75.04	-61.3	-13.74	0-360	150	H
2	18.590278	-66.57	RMS	32.9	-61	17.4	-9.5	11.8	-74.97	-61.3	-13.67	0-360	150	V
3	22.018609	-68.97	RMS	33.9	-61.1	18.9	-9.5	11.8	-74.97	-61.3	-13.67	0-360	150	H
4	22.020498	-68.94	RMS	33.9	-61.1	18.9	-9.5	11.8	-74.94	-61.3	-13.64	0-360	150	V
5	25.513996	-70.06	RMS	34.9	-61.5	20.4	-9.5	11.8	-73.96	-61.3	-12.66	0-360	150	H
6	25.513052	-70.2	RMS	34.9	-61.5	20.4	-9.5	11.8	-74.1	-61.3	-12.8	0-360	150	V

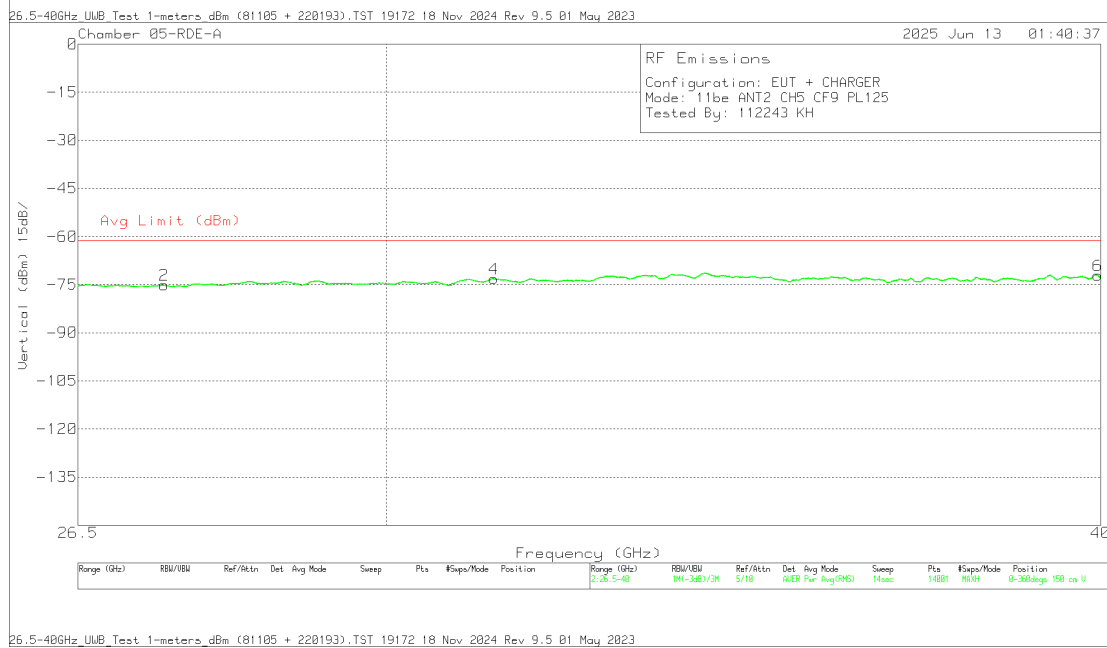
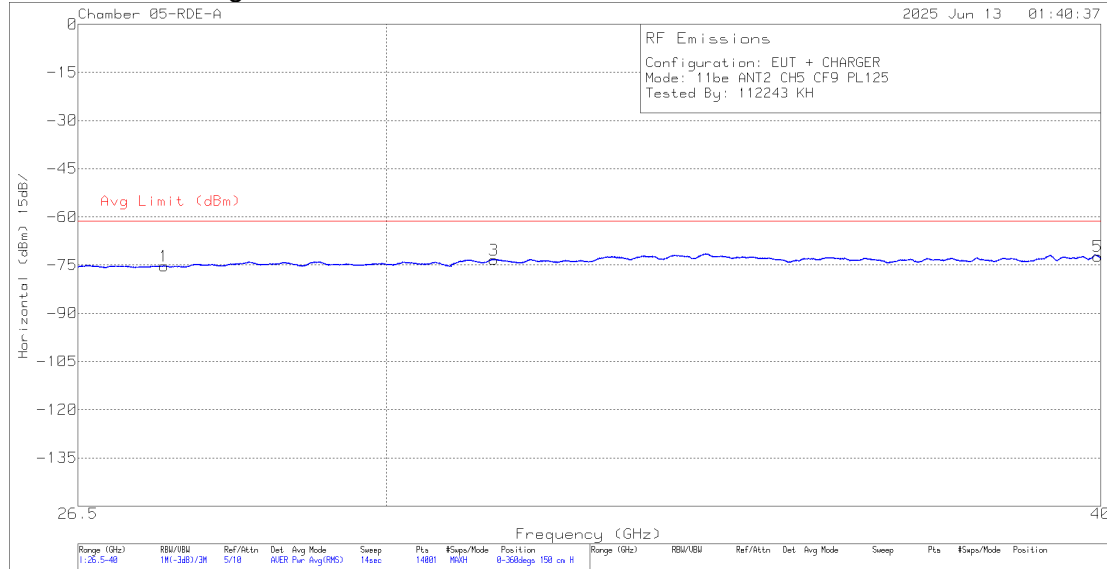
RMS - RMS detection

9.6.6 AVERAGE EMISSIONS, 26.5 – 40 GHz**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81105 ACF (dB/m)	CBL/AMP	Dist Corr (dB)	Field strength to EIRP converters	CBL (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	27.744893	-63.8	RMS	36.1	-65.7	-9.5	11.8	16.4	-74.7	-61.3	-13.4	0-360	150	H
2	27.744893	-63.87	RMS	36.1	-65.7	-9.5	11.8	16.4	-74.77	-61.3	-13.47	0-360	150	V
3	33.045573	-66.99	RMS	38.1	-63.5	-9.5	11.8	18.1	-71.99	-61.3	-10.69	0-360	150	H
4	33.045573	-66.99	RMS	38.1	-63.5	-9.5	11.8	18.1	-71.99	-61.3	-10.69	0-360	150	V
6	39.804254	-67.56	RMS	39.1	-66.8	-9.5	11.8	20.2	-72.76	-61.3	-11.46	0-360	150	H
5	39.804254	-67.8	RMS	39.1	-66.8	-9.5	11.8	20.2	-73	-61.3	-11.7	0-360	150	V

RMS - RMS detection

ANT2 CH5 Config 9

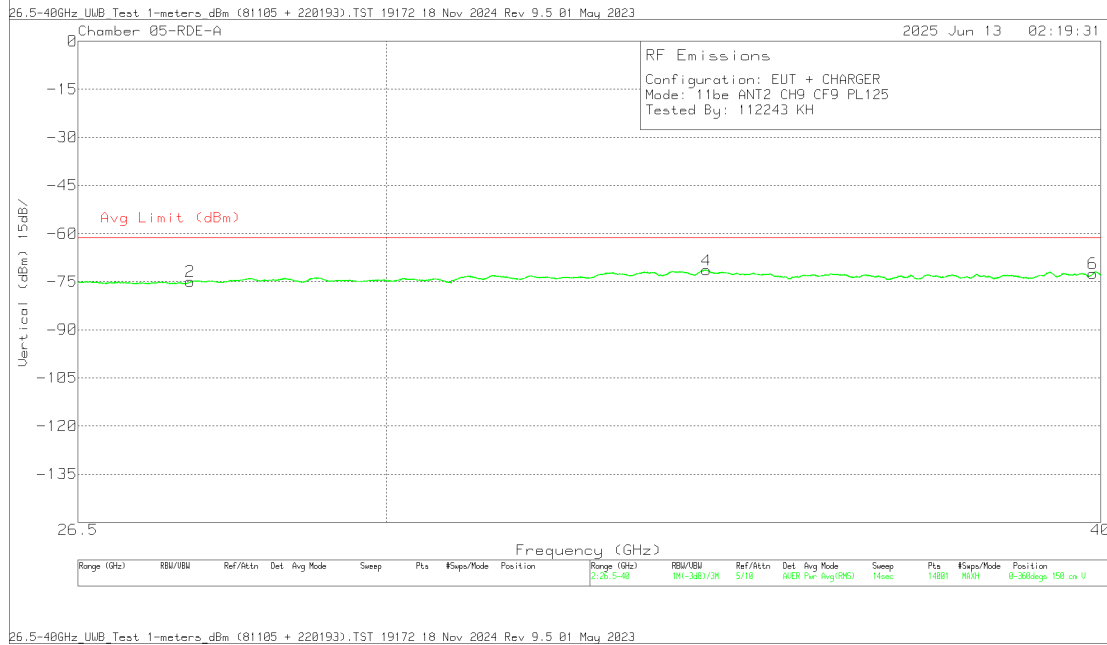
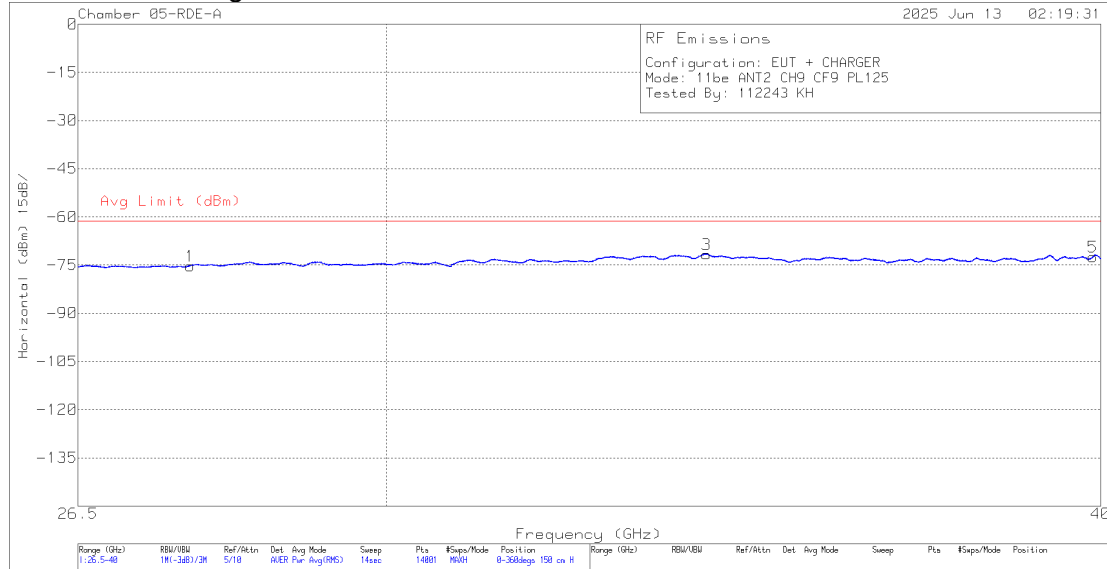


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81105 ACF (dB/m)	CBL/AMP	Dist Corr (dB)	Field strength to EIRP convers	CBL (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	27.435357	-63.31	RMS	36.3	-66.8	-9.5	11.8	16.2	-75.31	-61.3	-14.01	0-360	150	H
2	27.435357	-63.13	RMS	36.3	-66.8	-9.5	11.8	16.2	-75.13	-61.3	-13.83	0-360	150	V
3	31.330109	-69.22	RMS	37.3	-61.4	-9.5	11.8	17.7	-73.32	-61.3	-12.02	0-360	150	H
4	31.330109	-69.03	RMS	37.3	-61.4	-9.5	11.8	17.7	-73.13	-61.3	-11.83	0-360	150	V
6	39.950825	-68.71	RMS	39.2	-65.4	-9.5	11.8	20.4	-72.21	-61.3	-10.91	0-360	150	H
5	39.950825	-68.66	RMS	39.2	-65.4	-9.5	11.8	20.4	-72.16	-61.3	-10.86	0-360	150	V

RMS - RMS detection

ANT2 CH9 Config 9



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	81105 ACF (dB/m)	CBL/AMP	Dist Corr (dB)	Field strength to EIRP convers	CBL (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	27.724643	-64.33	RMS	36.1	-65.7	-9.5	11.8	16.4	-75.23	-61.3	-13.93	0-360	150	H
2	27.724643	-64.09	RMS	36.1	-65.7	-9.5	11.8	16.4	-74.99	-61.3	-13.69	0-360	150	V
3	34.129431	-66.72	RMS	38.1	-63.8	-9.5	11.8	18.5	-71.62	-61.3	-10.32	0-360	150	H
4	34.129431	-66.51	RMS	38.1	-63.8	-9.5	11.8	18.5	-71.41	-61.3	-10.11	0-360	150	V
5	39.872718	-68.93	RMS	39.2	-65.4	-9.5	11.8	20.3	-72.53	-61.3	-11.23	0-360	150	H
6	39.872718	-68.93	RMS	39.2	-65.4	-9.5	11.8	20.3	-72.53	-61.3	-11.23	0-360	150	V

RMS - RMS detection

9.7 AC POWER-LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a) & RSS-Gen 8.8

Frequency of Emission (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

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.10 Section 6.2

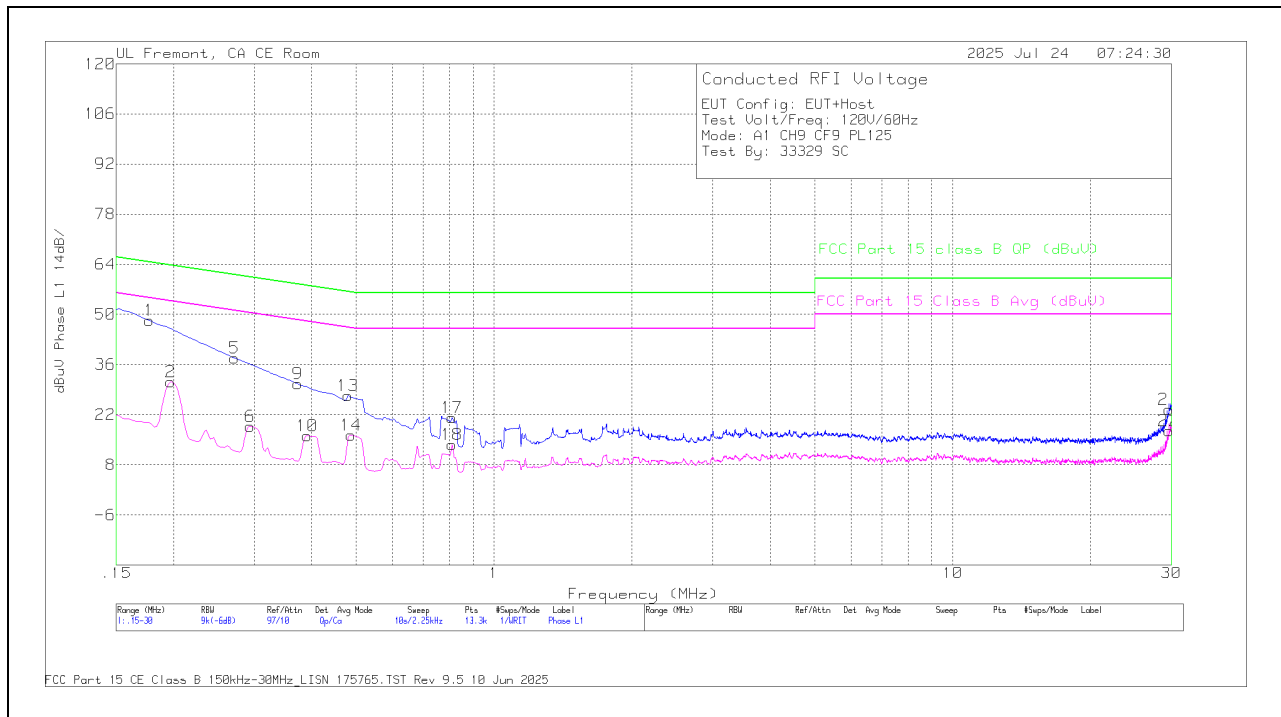
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

Employee IDs: 33329
Location: CA CE Room
Test Date: 7/24/2025

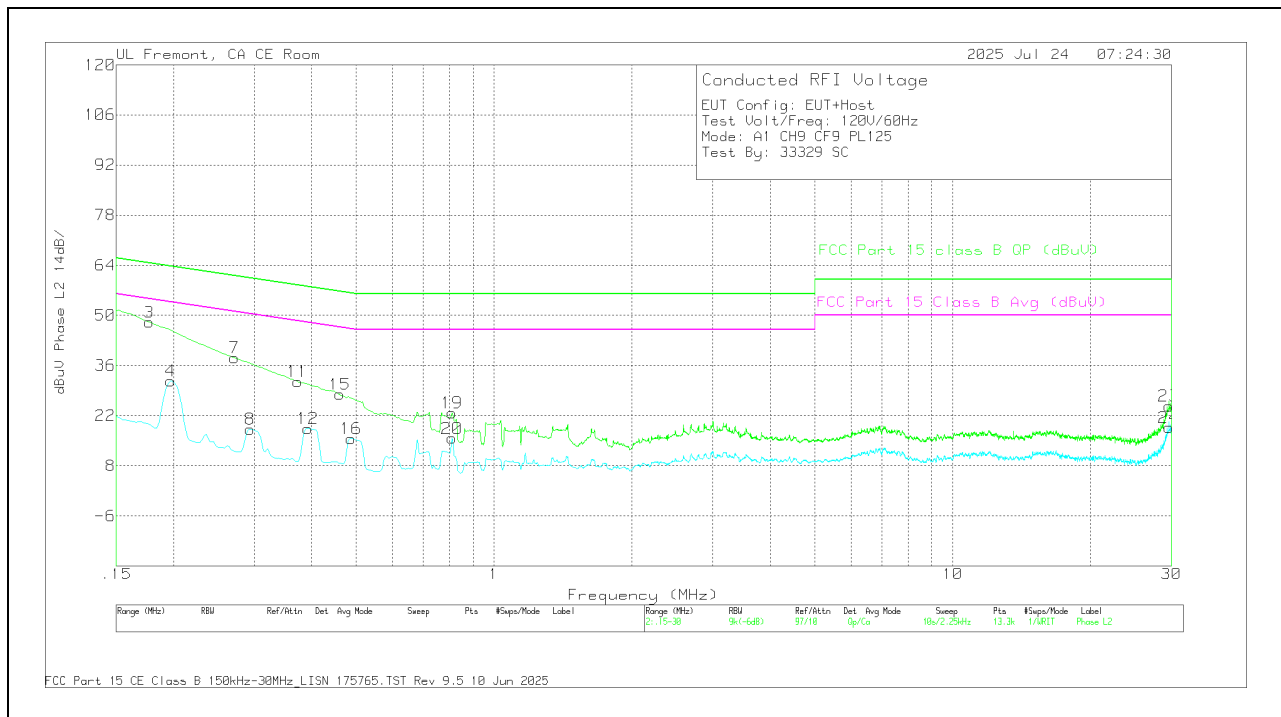
9.7.1 AC Power Line With Laptop**LINE 1 RESULTS****Trace Markers**

Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B OP (dBuV)	Margin (dB)
2	.1973	12.53	Ca	.1	.1	8.4	10	31.13	53.73	-22.6	-	-
6	.294	.77	Ca	0	0	8	10	18.77	50.41	-31.64	-	-
10	.3919	-1.7	Ca	-5	0	8.3	10	16.1	48.02	-31.92	-	-
14	.4875	-1.92	Ca	0	0	8.2	10	16.28	46.21	-29.93	-	-
18	.8093	-4.4	Ca	.1	0	7.9	10	13.6	46	-32.4	-	-
22	29.598	-1.96	Ca	.6	.3	8.5	10	17.44	50	-32.56	-	-
1	.177	29.48	Qp	.3	.1	8.4	10	48.28	-	-	64.63	-16.35
5	.2715	19.82	Qp	-.1	0	8.1	10	37.82	-	-	61.07	-23.25
9	.3728	12.63	Qp	-.4	0	8.4	10	30.63	-	-	58.44	-27.81
13	.4808	8.99	Qp	0	0	8.3	10	27.29	-	-	56.33	-29.04
17	.8093	3.17	Qp	.1	0	7.9	10	21.17	-	-	56	-34.83
21	29.625	4.16	Qp	.4	.3	8.6	10	23.46	-	-	60	-36.54

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS

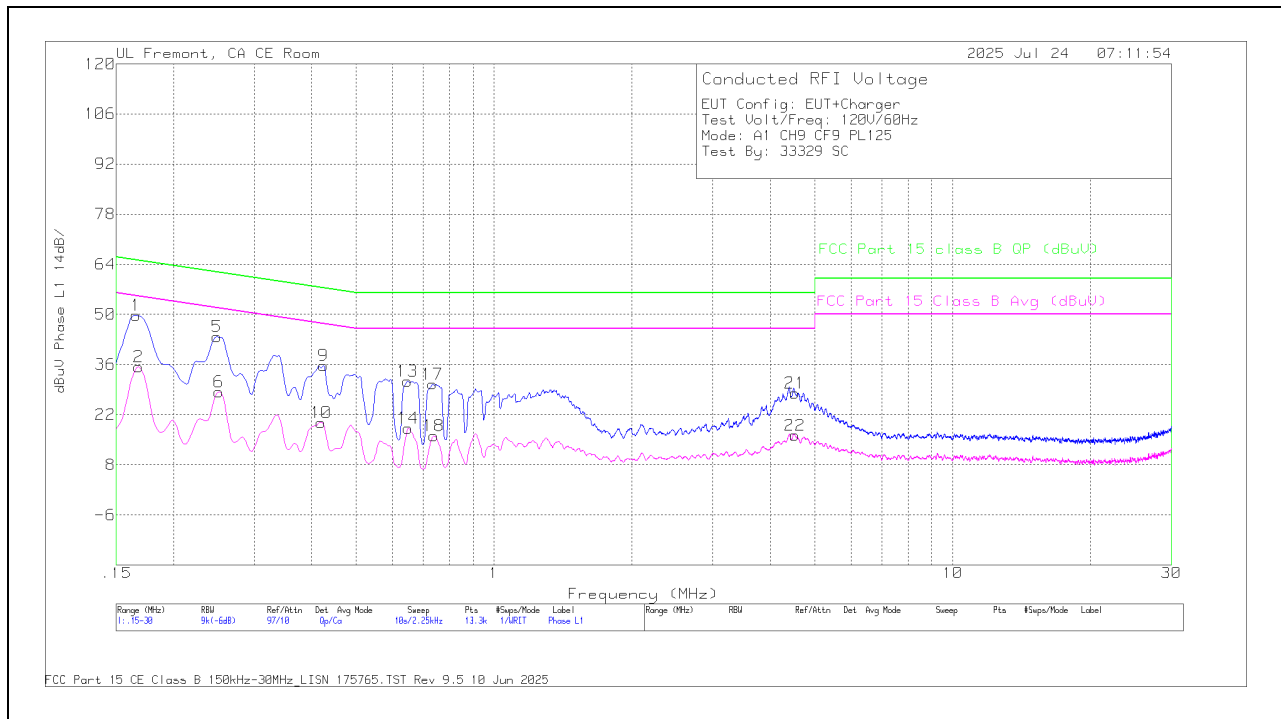


Trace Markers

Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
4	.1973	13.23	Ca	.1	0	8.4	10	31.73	53.73	-22	-	-
8	.294	.23	Ca	0	0	8	10	18.23	50.41	-32.18	-	-
12	.393	.62	Ca	-.5	0	8.3	10	18.42	48	-29.58	-	-
16	.4875	-2.57	Ca	0	0	8.2	10	15.63	46.21	-30.58	-	-
20	.8093	-2.35	Ca	.1	0	7.9	10	15.65	46	-30.35	-	-
24	29.598	-.66	Ca	.6	.2	8.5	10	18.64	50	-31.36	-	-
3	.177	29.38	Qp	.3	0	8.4	10	48.08	-	-	64.63	-16.55
7	.2715	20.19	Qp	-.1	0	8.1	10	38.19	-	-	61.07	-22.88
11	.3728	13.5	Qp	-.4	0	8.4	10	31.5	-	-	58.44	-26.94
15	.4605	9.13	Qp	.1	0	8.7	10	27.93	-	-	56.68	-28.75
19	.8093	4.77	Qp	.1	0	7.9	10	22.77	-	-	56	-33.23
23	29.598	5.41	Qp	.6	.2	8.5	10	24.71	-	-	60	-35.29

Qp - Quasi-Peak detector

Ca - CISPR average detection

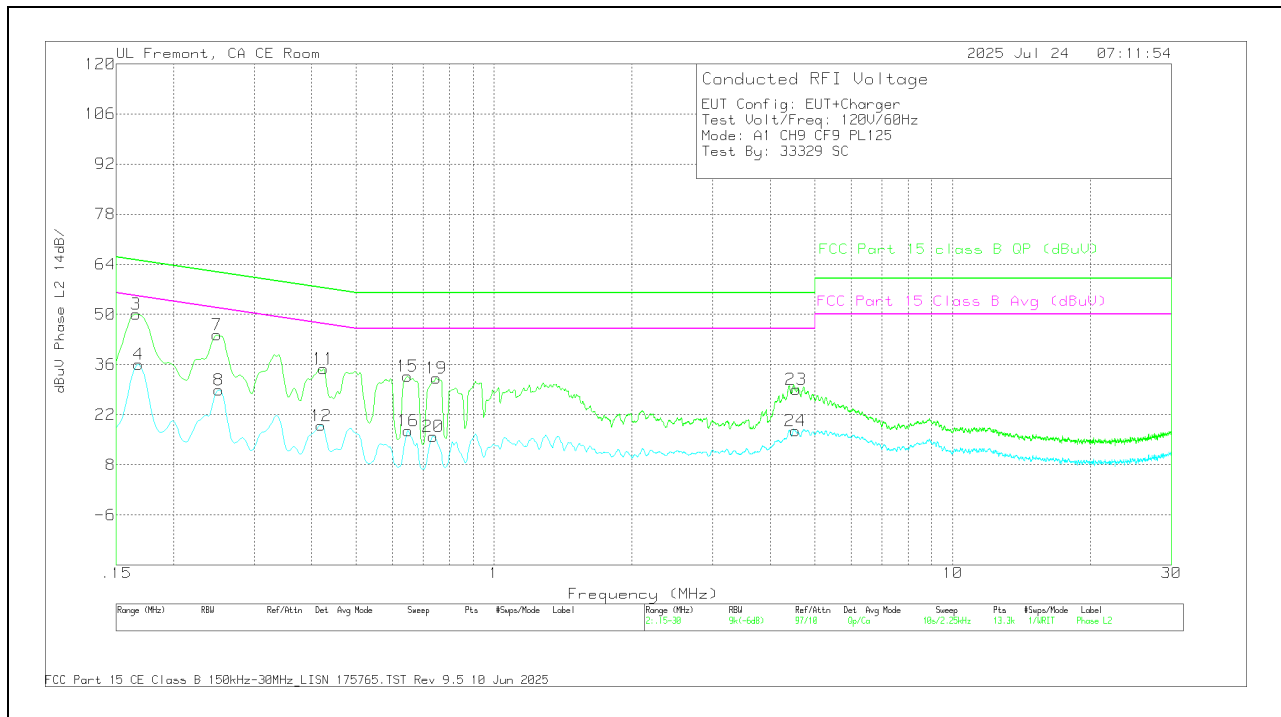
9.7.2 AC Power Line With AC/DC Adapter**LINE 1 RESULTS****Trace Markers**

Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.168	16.41	Ca	.4	.1	8.5	10	35.41	55.06	-19.65	-	-
6	.2513	10.27	Ca	-.1	0	8.2	10	28.37	51.72	-23.35	-	-
10	.42	1.54	Ca	-.2	0	8.5	10	19.84	47.45	-27.61	-	-
14	.6495	-.31	Ca	.1	0	8.4	10	18.19	46	-27.81	-	-
18	.7395	-2.55	Ca	.1	0	8.5	10	16.05	46	-29.95	-	-
22	4.533	-2.81	Ca	.3	0	8.7	10	16.19	46	-29.81	-	-
1	.1658	30.78	Qp	.4	.1	8.5	10	49.78	-	-	65.17	-15.39
5	.249	25.73	Qp	-.1	0	8.2	10	43.83	-	-	61.79	-17.96
9	.4245	17.29	Qp	-.2	0	8.6	10	35.69	-	-	57.36	-21.67
13	.6473	12.84	Qp	.1	0	8.4	10	31.34	-	-	56	-24.66
17	.735	11.94	Qp	.1	0	8.5	10	30.54	-	-	56	-25.46
21	4.533	9.06	Qp	.3	0	8.7	10	28.06	-	-	56	-27.94

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
4	.168	17.06	Ca	.4	.1	8.5	10	36.06	55.06	-19	-	-
8	.2513	10.8	Ca	-.1	0	8.2	10	28.9	51.72	-22.82	-	-
12	.42	.67	Ca	-.2	0	8.5	10	18.97	47.45	-28.48	-	-
16	.6495	-.99	Ca	.1	0	8.4	10	17.51	46	-28.49	-	-
20	.7373	-2.66	Ca	.1	0	8.5	10	15.94	46	-30.06	-	-
24	4.5375	-1.51	Ca	.3	0	8.7	10	17.49	46	-28.51	-	-
3	.1658	31.11	Qp	.4	.1	8.5	10	50.11	-	-	65.17	-15.06
7	.249	26.15	Qp	-.1	0	8.2	10	44.25	-	-	61.79	-17.54
11	.4245	16.47	Qp	-.2	0	8.6	10	34.87	-	-	57.36	-22.49
15	.6473	14.18	Qp	.1	0	8.4	10	32.68	-	-	56	-23.32
19	.7485	13.52	Qp	.1	0	8.6	10	32.22	-	-	56	-23.78
23	4.5488	9.99	Qp	.3	0	8.7	10	28.99	-	-	56	-27.01

Qp - Quasi-Peak detector

Ca - CISPR average detection

10 SETUP PHOTOS

Please refer to 15496249-EP1V1 for setup photos.

APPENDIX A – SPOT CHECK EVALUATION

1. SPOT CHECK EVALUATION

1.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3257, A3525, A3526 and A3527.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3257	BCG-E8950A	579C-E8950A	-With FR2/LTE/5GNR B14/29/71 -No B11/21 -With UL MIMO (n41/48/77)	eSIM	-
A3525	BCG-E8960A	579C-E8960A	-Without FR2 -Added B11/21 -No UL MIMO	eSIM	A3257
A3526	BCG-E8961A	579C-E8961A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -No UL MIMO	eSIM+pSIM	
A3527	BCG-E8962A	579C-E8962A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -With UL MIMO (n41/78/79) -No MSS / 5GNR B53	pSIM+pSIM	

Note:

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1)$$

$$d_{dB} \leq d_{dBmax} \quad (2)$$

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where d_{dB} is deviation between the variant and the reference model, V_{dB} is variant spot check level, R_{dB} is the corresponding reference measurement level, d_{dBmax} is the maximum deviation d_{dB} allowed, and M_{dB} is the margin in dB.

Alternate sets of power settings are applied to variant models to match the effective equivalent isotropic radiated power (EIRP) results of the reference model.

1.1. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3525

A3525 SPOT CHECK RESULTS											
Equipment Class / Technology	Worst Mode	Channel	Config	PL	Test Item	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3525	Delta (dB or MHz)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8960A IC : 579C-E8960A			
UWB	Ant 2	5	405	4093	Avg EIRP Power (dBm)	6 to 9	-42.30	-42.62	-0.32	1.30	Note 1
					Operating Bandwidth (MHz)	6 to 9	547.13	543.14	-3.99	N/A	Note 3
	Ant 1	9	9	125	Out-Of-Band Emissions (dBm)	9 to 18	-68.15	-69.59	-1.44	6.85	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.

1.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3526

A3525 SPOT CHECK RESULTS											
Equipment Class / Technology	Worst Mode	Channel	Config	PL	Test Item	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3526	Delta (dB or MHz)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8961A IC : 579C-E8961A			
UWB	Ant 2	5	405	4093	Avg EIRP Power (dBm)	6 to 9	-42.30	-42.45	-0.15	1.30	Note 1
					Operating Bandwidth (MHz)	6 to 9	547.13	546.64	-0.49	N/A	Note 3
	Ant 1	9	9	125	Out-Of-Band Emissions (dBm)	9 to 18	-68.15	-69.45	-1.30	6.85	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.

1.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3527

A3525 SPOT CHECK RESULTS											
Equipment Class / Technology	Worst Mode	Channel	Config	PL	Test Item	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3527	Delta (dB or MHz)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8962A IC : 579C-E8962A			
UWB	Ant 2	5	405	4093	Avg EIRP Power (dBm)	6 to 9	-42.30	-42.54	-0.24	1.30	Note 1
					Operating Bandwidth (MHz)	6 to 9	547.13	540.13	-7.00	N/A	Note 3
	Ant 1	9	9	125	Out-Of-Band Emissions (dBm)	9 to 18	-68.15	-67.08	1.07	6.85	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

Note 3: For bandwidth the criteria is that the bandwidth for both reference and variants models be larger than 500MHz.