

TEST REPORT

Report Number: 15496249-E6V2

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

Model : A3257 (Parent)
A3525, A3526, A3527 (Variants)

Brand : APPLE

FCC ID : BCG-E8950A (Parent)
BCG-E8960A, BCG-E8961A, BCG-E8962A (Variants)

IC : 579C-E8950A (Parent)
579C-E8960A, 579C-E8961A, 579C-E8962A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
ISED RSS-247 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025/08/09

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025/07/30	Initial Review	---
V2	2025/08/09	Updated section 9 and 10	Gerardo Abrego

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1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: SMARTPHONE

MODEL: A3257 (Parent)
A3525, A3526, A3527 (Variants)

BRAND: APPLE

SERIAL NUMBER: HVHHCY0001P0000YEE, HVHHHD0004U0000YE8
(Conducted)
FV33DQJ970 (Radiated)

SAMPLE RECEIPT DATE: 2025-05-08

DATE TESTED: 2025-04-08 to 2025-07-30

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies
ISED RSS-247 Issue 3	Complies
ISED RSS-GEN Issue 5 + A1 + A2	Complies

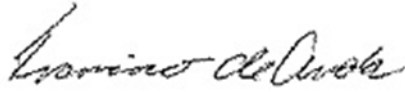
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

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 considered unless noted otherwise.

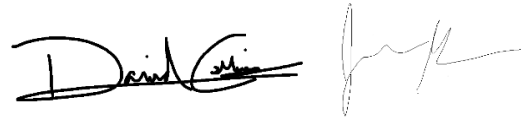
This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For
UL Verification Services Inc. By:

Prepared By:



Francisco de Anda
Staff Engineer
Consumer Technology Division
UL Verification Services Inc.



David Collins, Jasdeep Madar
Senior Test Engineer
Consumer Technology Division
UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	RSS-GEN 6.7	26dB BW/99% OBW	Reporting purposes only	Per ANSI C63.10 Sections 6.9.2 and 6.9.3
15.407 (e)	RSS-247 6.2.4.2	6 dB BW	complies	None.
15.407 (a) (1-4), (h) (1)	RSS-247 6.2	Output Power	complies	None.
15.407 (a) (1-3, 5)	RSS-247 6.2	PSD	complies	None.
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2	Radiated Emissions	complies	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	complies	None.

3. TEST METHODOLOGY

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

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- FCC 47 CFR Part 2
- FCC CFR 47 Part 15
- FCC KDB 414788 D01 Radiated Test Site
- FCC KDB 484596 D01 Referencing Test Data
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 3

*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 Court, 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	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	1.3 dB (Pk), 0.45 dB (Ave)
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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

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.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.8 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8GHz Band 1TX, high power			
5728.75 – 5846.25	802.15.4ab	20.96	124.74
5.8GHz Band 1TX Low Power			
5728.75 – 5846.25	802.15.4ab	11.94	15.63

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

Type: IFA

Frequency Range (MHz)	ANT 6 (dBi)	ANT 5 (dBi)
5725-5850	2.30	-4.80

Note: antenna C0 and antenna C1 indicated in power tune-up document pertain to Ant 6 and ANT 5 of this report respectively.

The SMA Cable Loss as provided by the manufacturer' are as follows:

Frequency Range (MHz)	ANT 6 (dB)	ANT 5 (dB)
5728.75 – 5846.25	-3.20	-2.80

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware and software installed during testing was 23A258.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z on ANT 6 and ANT 5. It was determined that Z (Portrait) orientation was the worst-case orientation for ANT 6 and Y (Landscape) was the worst-case orientation for ANT 5.

There are 3 index on this 802.15.4ab technology with data rate on index 1, 250Kbps, index 2, 500Kbps and index 3, 1000Kbps. All data rate was investigated, and the worst case was determined based on the highest power on PSD and Index 1, 500Kbps determined to be the worst case.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

Simultaneous transmission with Bluetooth was investigated, and no noticeable emission was found.

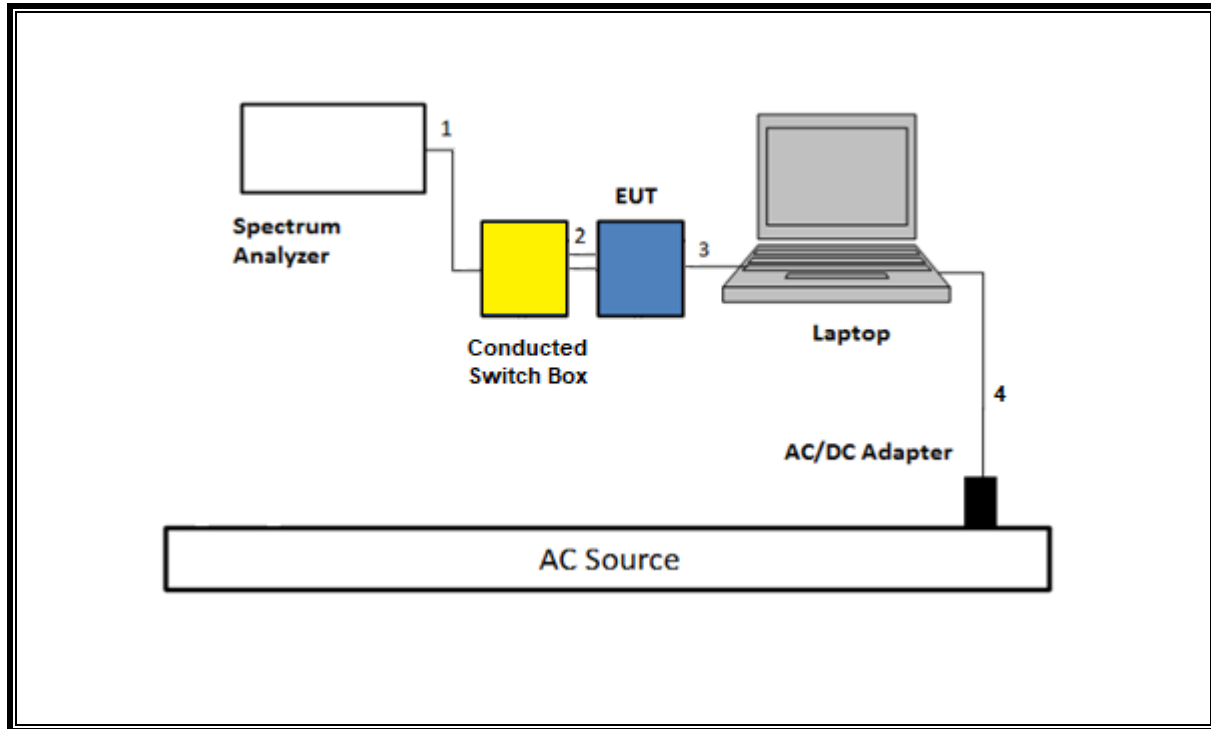
For radiated bandedge and emissions spurious, 500Kbps is set as the worst-case data rates for final test

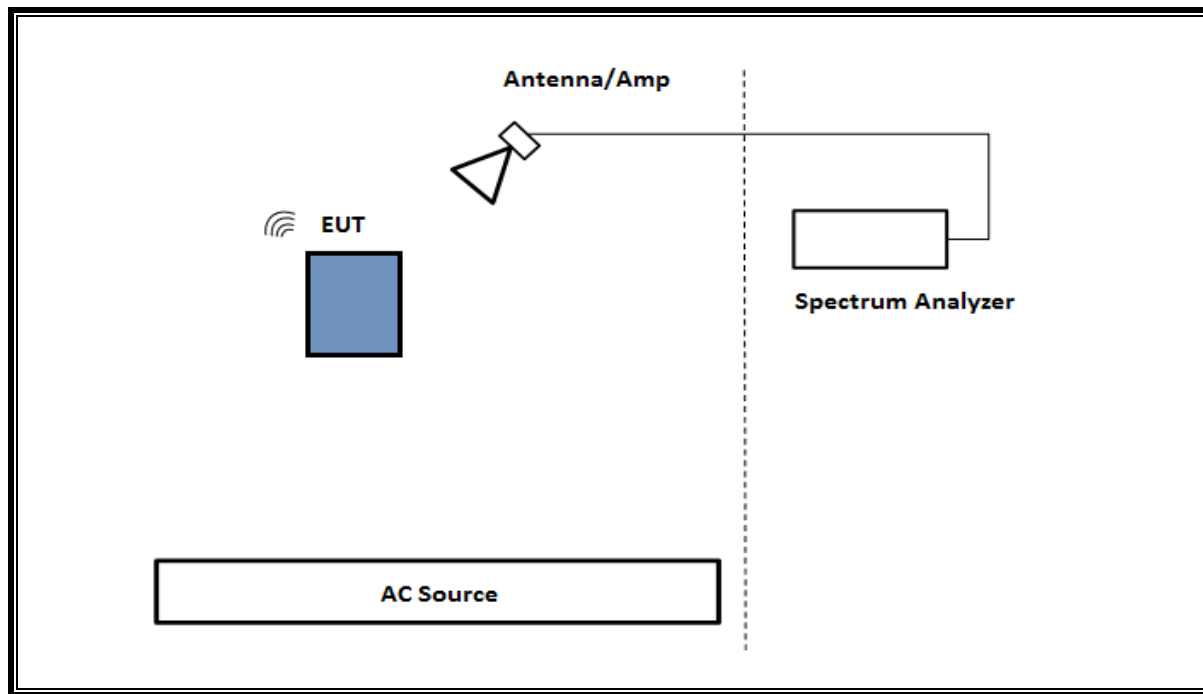
6.6. DESCRIPTION OF TEST SETUP

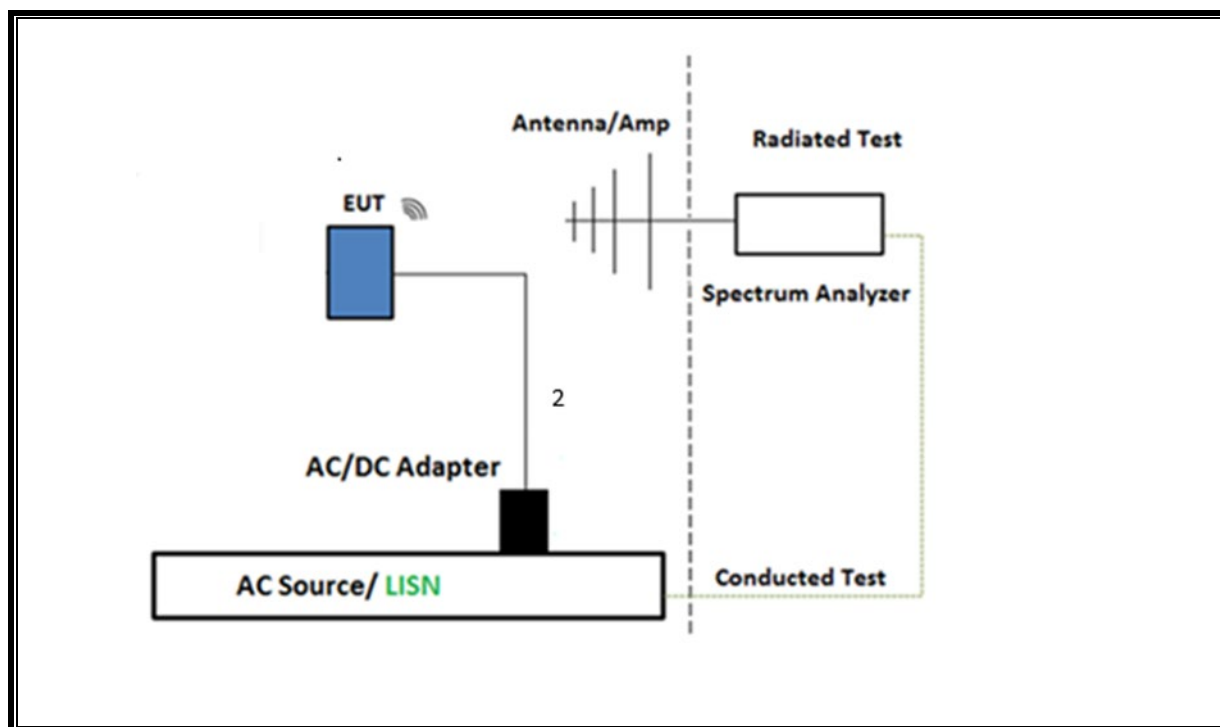
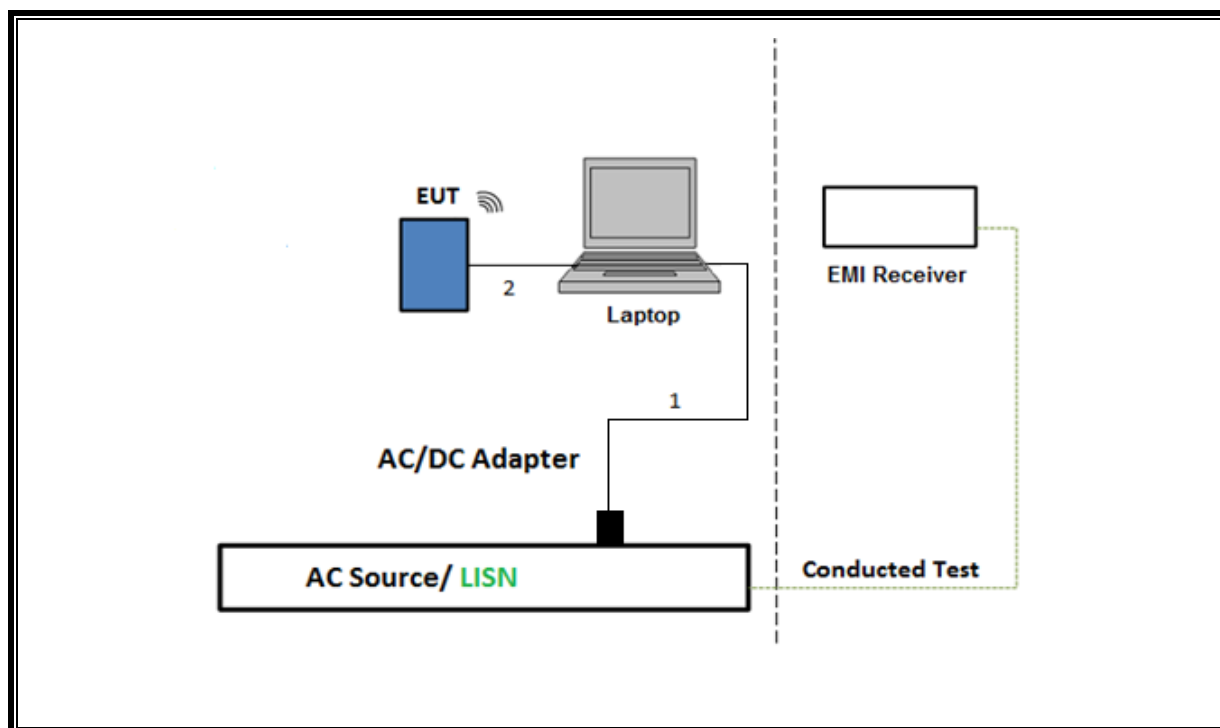
SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
RF Device, Switch (Conducted Switch Box)		UL	n/a	262287		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	1	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shield	1.0	N/A
4	DC	1	DC	Shield	2.0	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

SETUP DIAGRAM FOR CONDUCTED TESTS

SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz

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

7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01.

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2020 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

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

Description	Manufacturer	Model	ID Num	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	90238	2026-01-31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
RF Device, Switch (Conducted Switch Box)	UL	CSB	262287	2026-04-30
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	85150	2025-12-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	208807	2026-01-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2027-03-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	234683	2026-02-28
Antenna, Horn 26.5-40GHz	A.R.A.	MWH-2640/B	81105	2025-08-31
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Amplical	AMP26G40-65	220193	2026-04-30
EMI Test Receiver	Rohde & Schwarz	ESW44	226078	2026-02-28
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	223084	2025-10-31
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12 Port	231875	2025-11-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	170063	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	84797	2025-08-31
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225079	2026-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2026-02-28

Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	171646	2026-02-28
LISN for Conducted Emissions CISPR-16	Fischer Custom Communications	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
Transient Limiter	TE	TBFL1	207996	2025-09-30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	Station Tool	Ver 5.0, 6.1	
Radiated Software	UL	UL EMC	Ver 9.5, May 1 , 2023	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, May 1 , 2023	

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

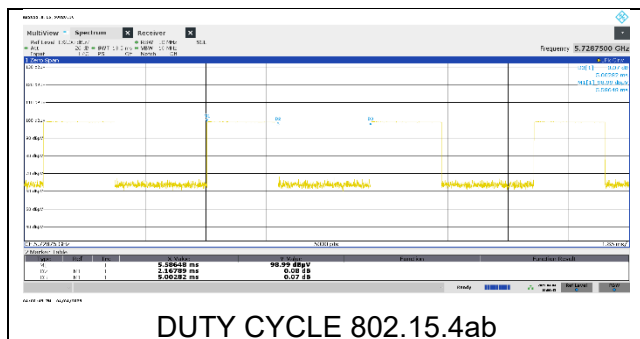
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.15.4ab						
UNII-3						
Index 2	2.168	5.003	0.433	43.33%	3.63	0.461

DUTY CYCLE PLOT



DUTY CYCLE 802.15.4ab

9.2. 99% AND 26 dB BANDWIDTH

LIMITS

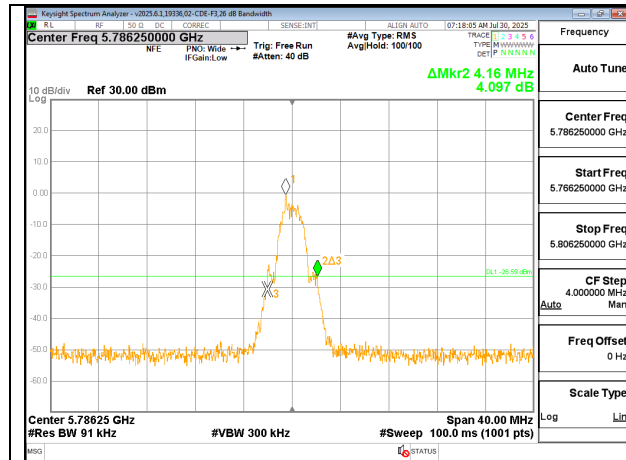
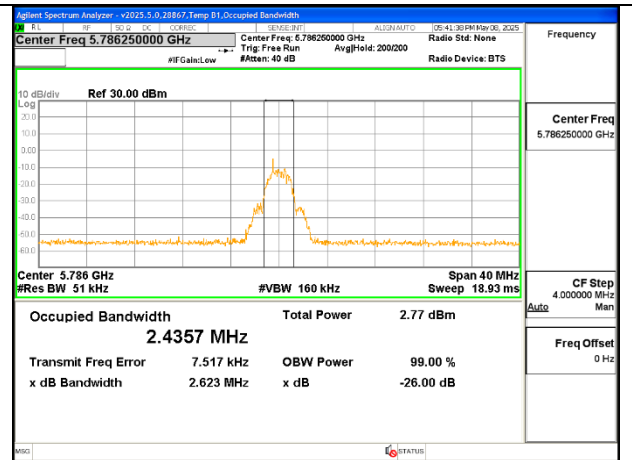
None; for reporting purposes only.

RESULTS

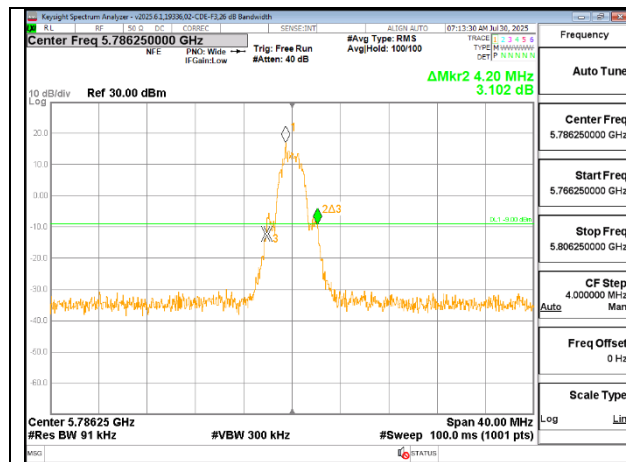
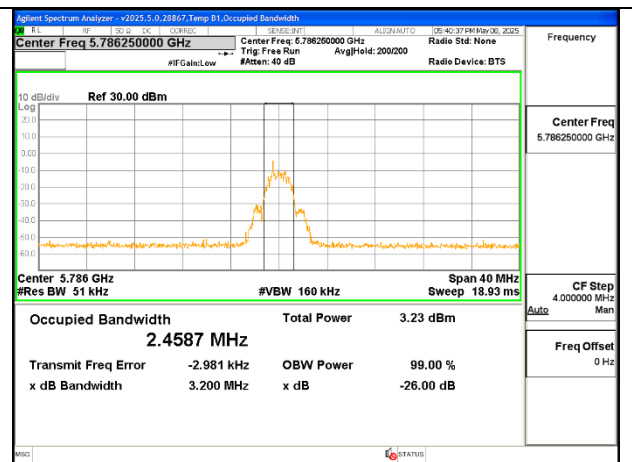
Only High Power modes result is reported, it covers all Low Power modes. Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

1TX Antenna 6 MODE

Channel	Frequency	26dB Bandwidth	99% Bandwidth
	(MHz)	(MHz)	(MHz)
Low	5728.75	4.08	2.4091
Mid	5786.25	4.16	2.4357
High	5846.25	4.12	2.4062

**MID CHANNEL 26dB****MID CHANNEL 99%****1TX Antenna 5 MODE**

Channel	Frequency	26dB Bandwidth	99% Bandwidth
	(MHz)	(MHz)	(MHz)
Low	5728.75	4.12	2.3928
Mid	5786.25	4.20	2.4587
High	5846.25	4.08	2.3866

**MID CHANNEL 26dB****MID CHANNEL 99%**

9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.2

The minimum 6 dB bandwidth shall be at least 500 kHz.

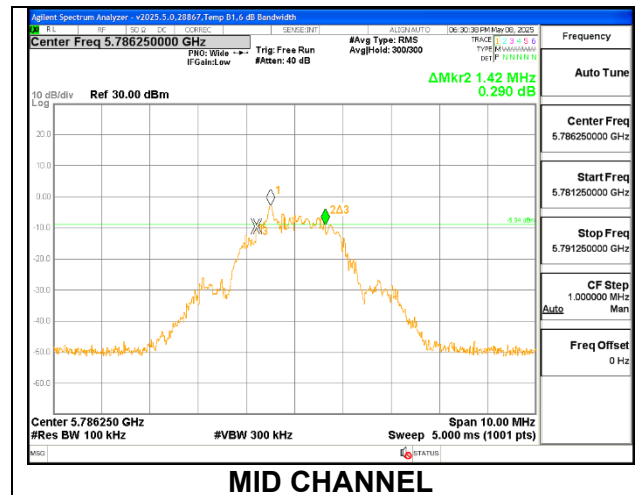
RESULTS

Only High-Power modes result is reported, it covers all Low Power modes

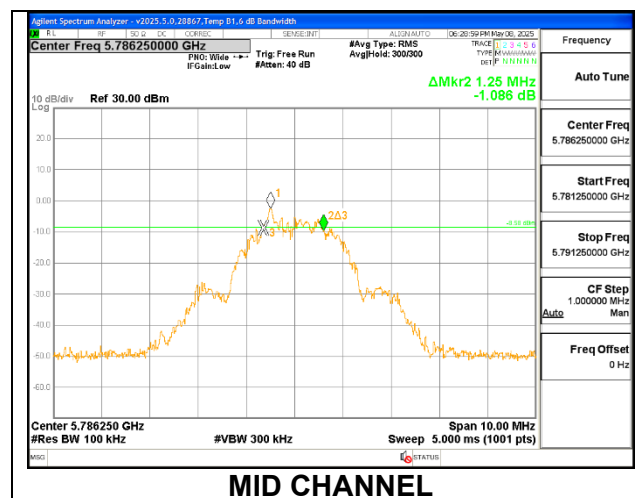
Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.330	0.5
Mid	5786.25	1.420	0.5
High	5846.25	1.400	0.5

**1TX Antenna 5 MODE**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.360	0.5
Mid	5786.25	1.250	0.5
High	5846.25	1.390	0.5



9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02, Section E.3 b. Method PM-G.

The measurement method used for power spectral density is KDB 789033 D02, Section F.

Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

9.4.1. HIGH POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	32480
Test Date:	2025-07-19

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	2.30	30.00	30.00
Mid	5786.25	2.30	30.00	30.00
High	5846.25	2.30	30.00	30.00

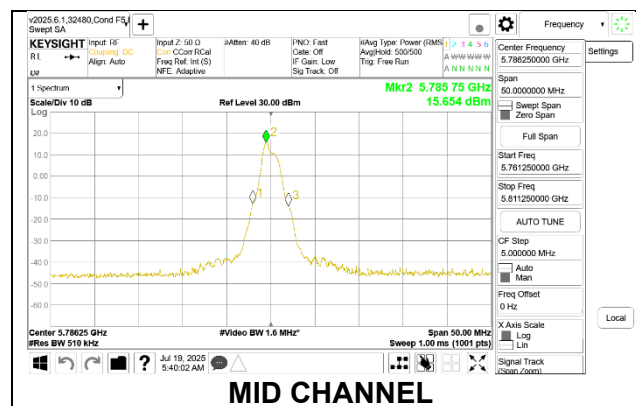
Duty Cycle CF (dB)	3.63	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	18.98	18.98	30.00	-11.02
Mid	5786.25	18.96	18.96	30.00	-11.04
High	5846.25	18.91	18.91	30.00	-11.09

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	15.608	19.238	30.00	-10.76
Mid	5786.25	15.654	19.284	30.00	-10.72
High	5846.25	15.444	19.074	30.00	-10.93



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	32480
Test Date:	2025-07-19

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-4.80	30.00	30.00
Mid	5786.25	-4.80	30.00	30.00
High	5846.25	-4.80	30.00	30.00

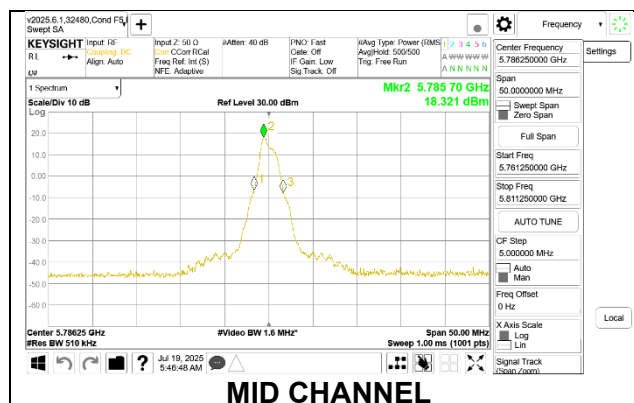
Duty Cycle CF (dB)	3.63	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	20.95	20.95	30.00	-9.05
Mid	5786.25	20.95	20.95	30.00	-9.05
High	5846.25	20.96	20.96	30.00	-9.04

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	17.942	21.572	30.00	-8.43
Mid	5786.25	18.321	21.951	30.00	-8.05
High	5846.25	18.068	21.698	30.00	-8.30



9.4.2. LOW POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	32480
Test Date:	2025-07-19

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	2.30	30.00	30.00
Mid	5786.25	2.30	30.00	30.00
High	5846.25	2.30	30.00	30.00

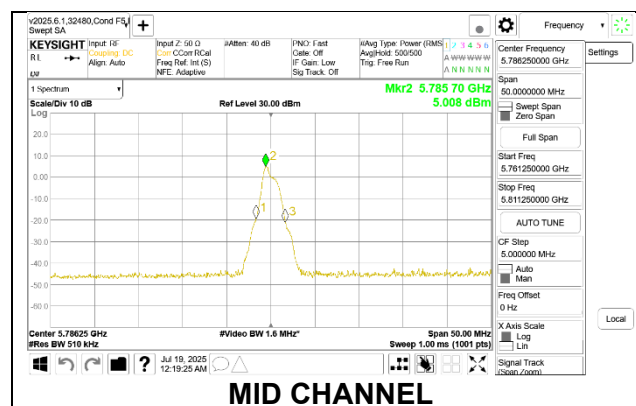
Duty Cycle CF (dB)	3.63	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	11.94	11.94	30.00	-18.06
Mid	5786.25	11.94	11.94	30.00	-18.06
High	5846.25	11.93	11.93	30.00	-18.07

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	5.085	8.715	30.00	-21.29
Mid	5786.25	5.008	8.638	30.00	-21.36
High	5846.25	5.240	8.870	30.00	-21.13



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	32480
Test Date:	2025-07-29

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-4.80	30.00	30.00
Mid	5786.25	-4.80	30.00	30.00
High	5846.25	-4.80	30.00	30.00

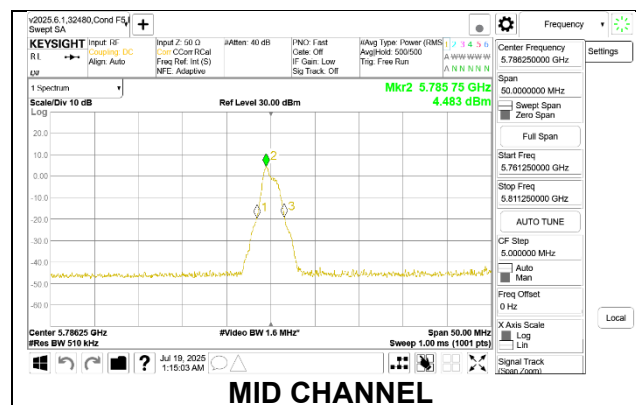
Duty Cycle CF (dB)	3.63	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	10.93	10.93	30.00	-19.07
Mid	5786.25	10.91	10.91	30.00	-19.09
High	5846.25	10.91	10.91	30.00	-19.09

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5728.75	4.741	8.371	30.00	-21.63
Mid	5786.25	4.483	8.113	30.00	-21.89
High	5846.25	4.393	8.023	30.00	-21.98



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

RSS 247 Issue 3 Sections

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

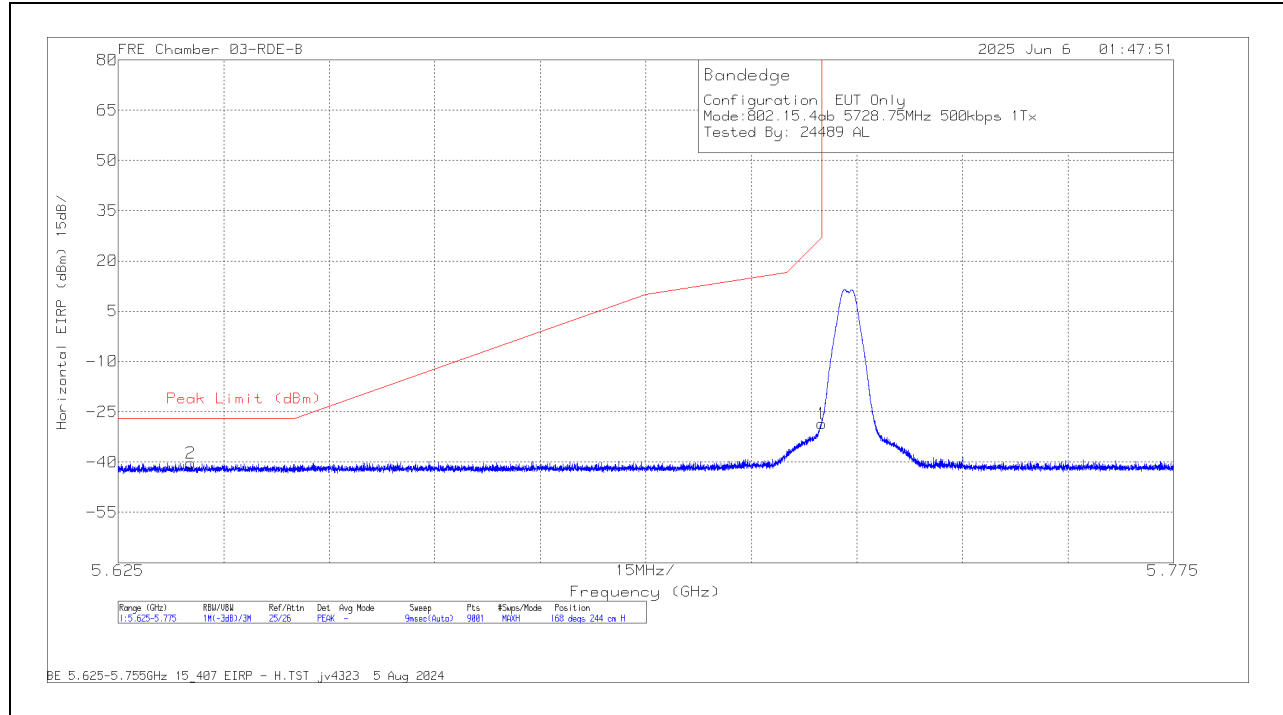
Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

RESULTS

10.1. UNII-3, TRANSMITTER ABOVE 1 GHz

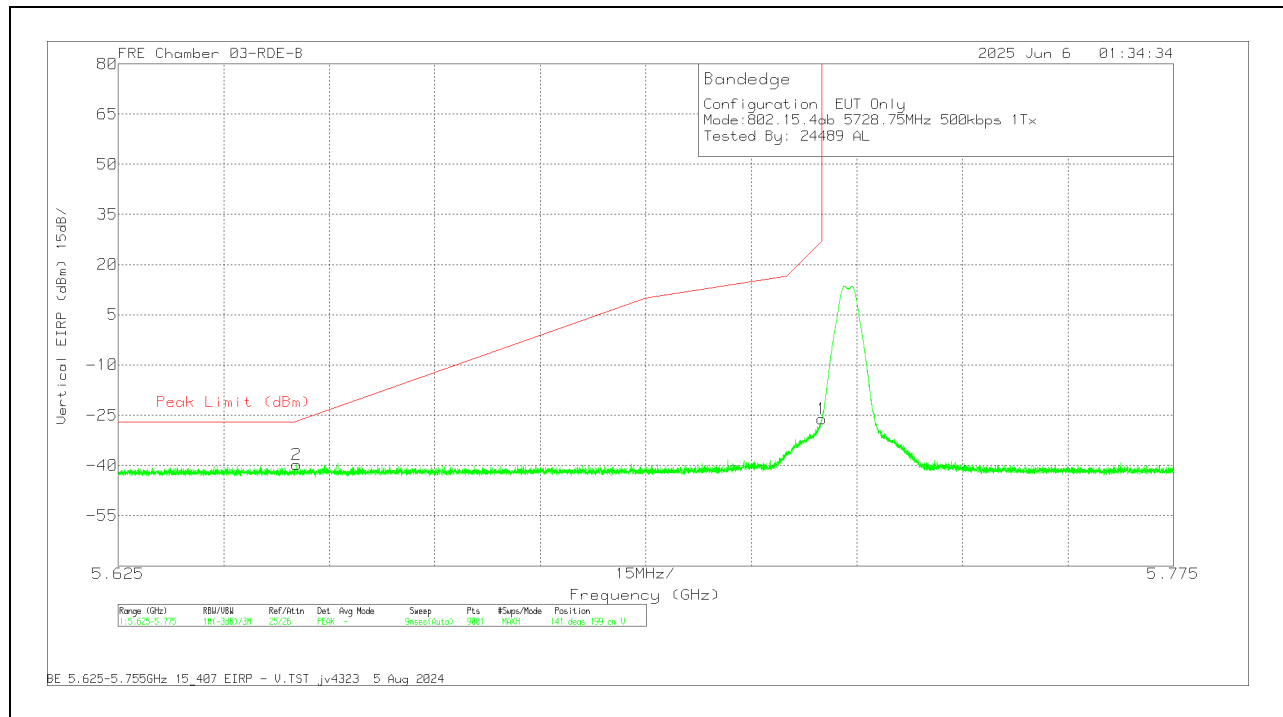
10.1.1. ANT 6, 500Kbps HIGH POWER BAND EDGE IN THE 5.8 GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-36.18	Pk	34.6	11.8	0	-38.8	-28.58	27	-55.58	168	244	H
2	5.635334	-47.65	Pk	34.5	11.8	0	-39	-40.35	-27	-13.35	168	244	H

Pk - Peak detector

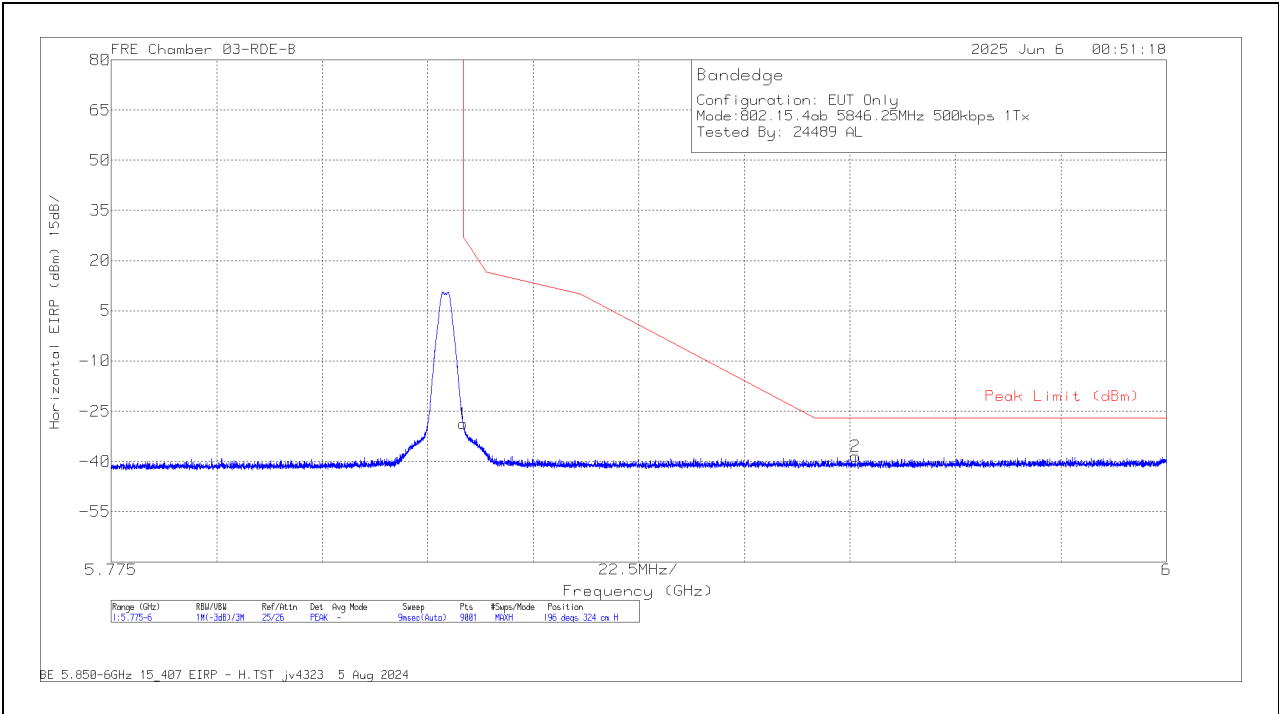
VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-33.65	Pk	34.6	11.8	0	-38.8	-26.05	27	-53.05	141	199	V
2	5.650351	-47.18	Pk	34.5	11.8	0	-38.9	-39.78	-26.74	-13.04	141	199	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

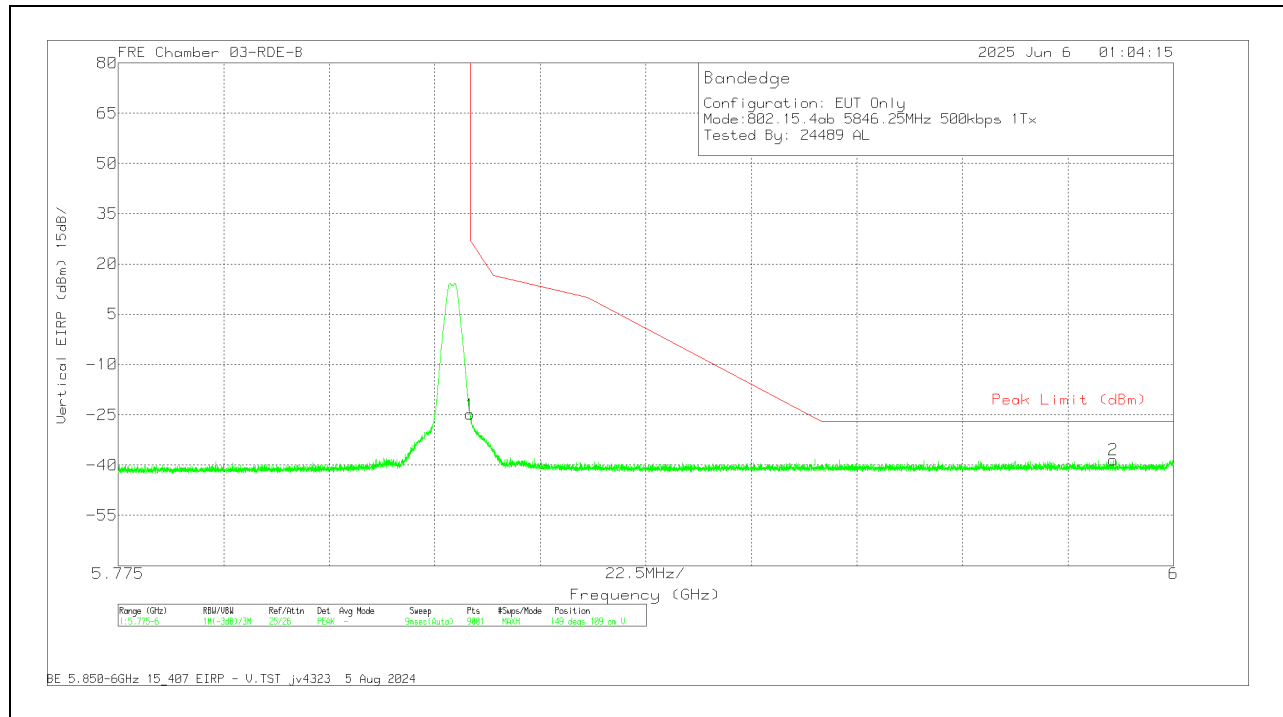
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-36.91	Pk	34.9	11.8	0	-38.5	-28.71	27	-55.71	196	324	H
2	5.9337	-47.07	Pk	35.1	11.8	0	-38.3	-38.47	-27	-11.47	196	324	H

Pk - Peak detector

VERTICAL RESULT

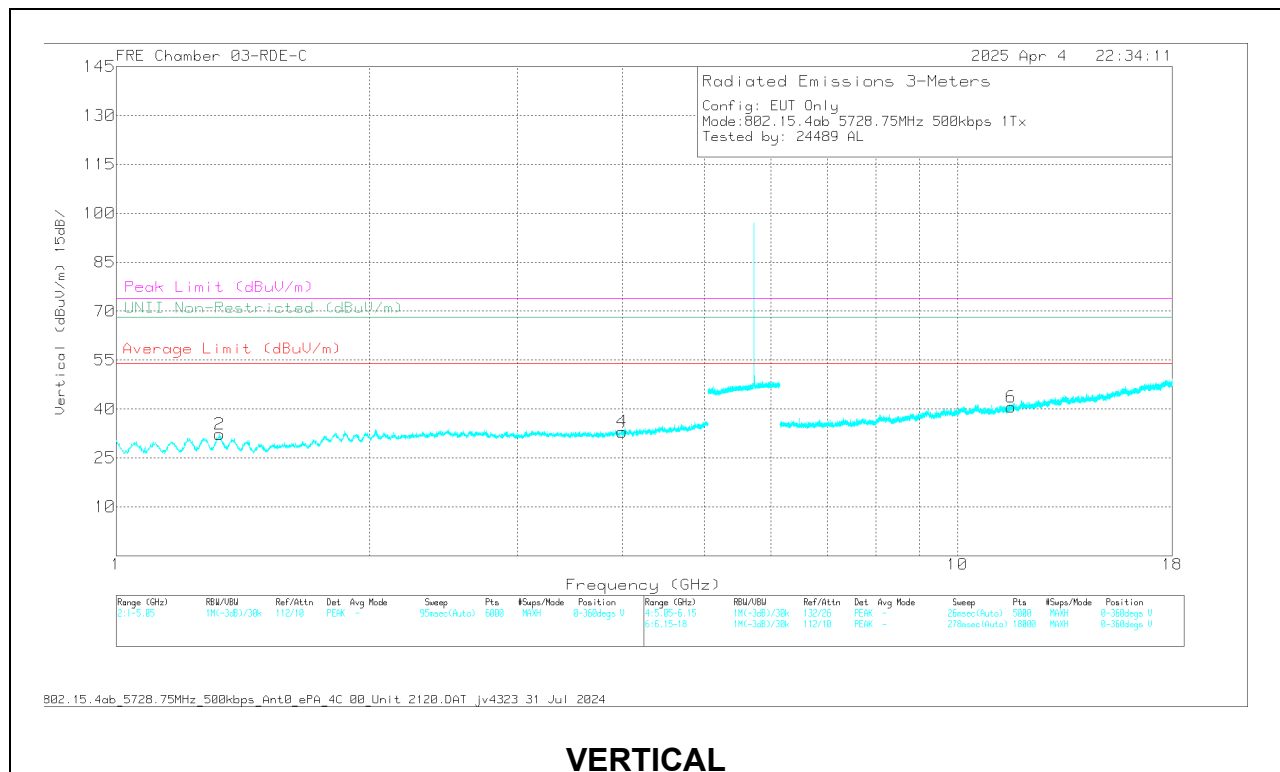
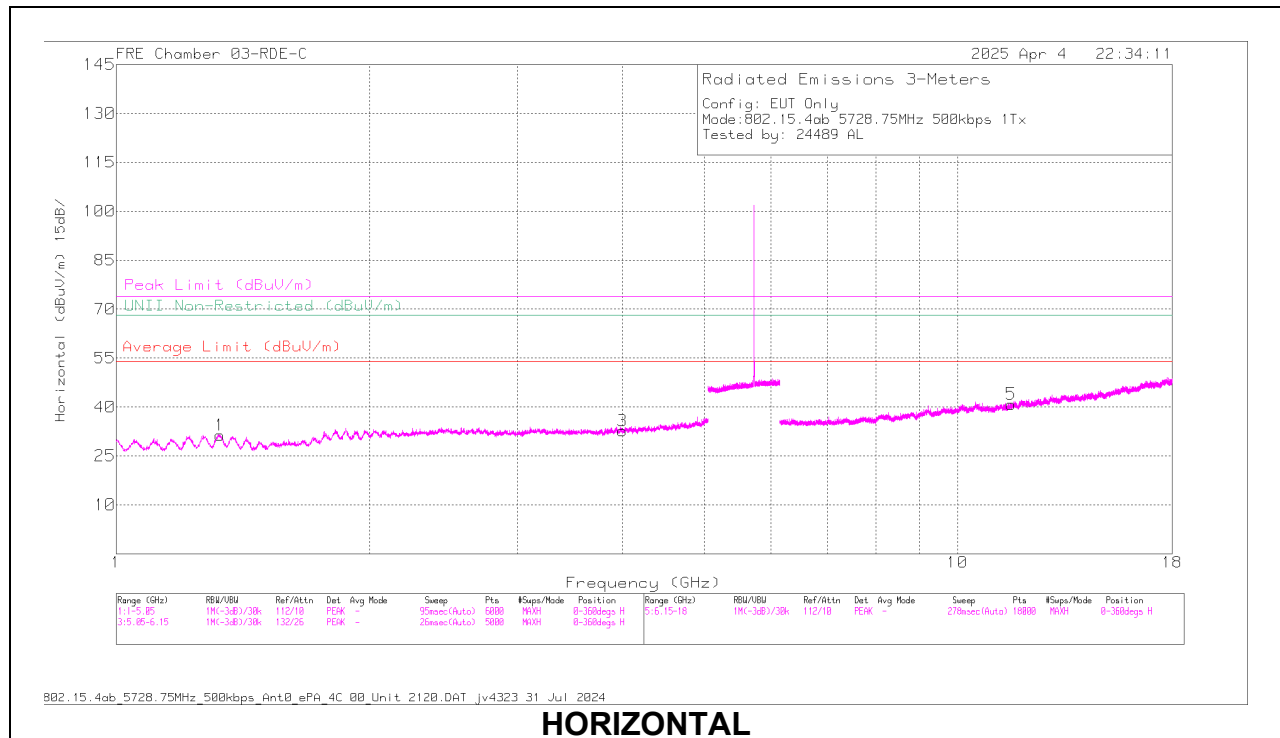


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-33.09	Pk	34.9	11.8	0	-38.5	-24.89	27	-51.89	149	109	V
2	5.987175	-47.32	Pk	35.2	11.8	0	-38.12	-38.44	-27	-11.44	149	109	V

Pk - Peak detector

10.1.2. ANT 6, 500Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

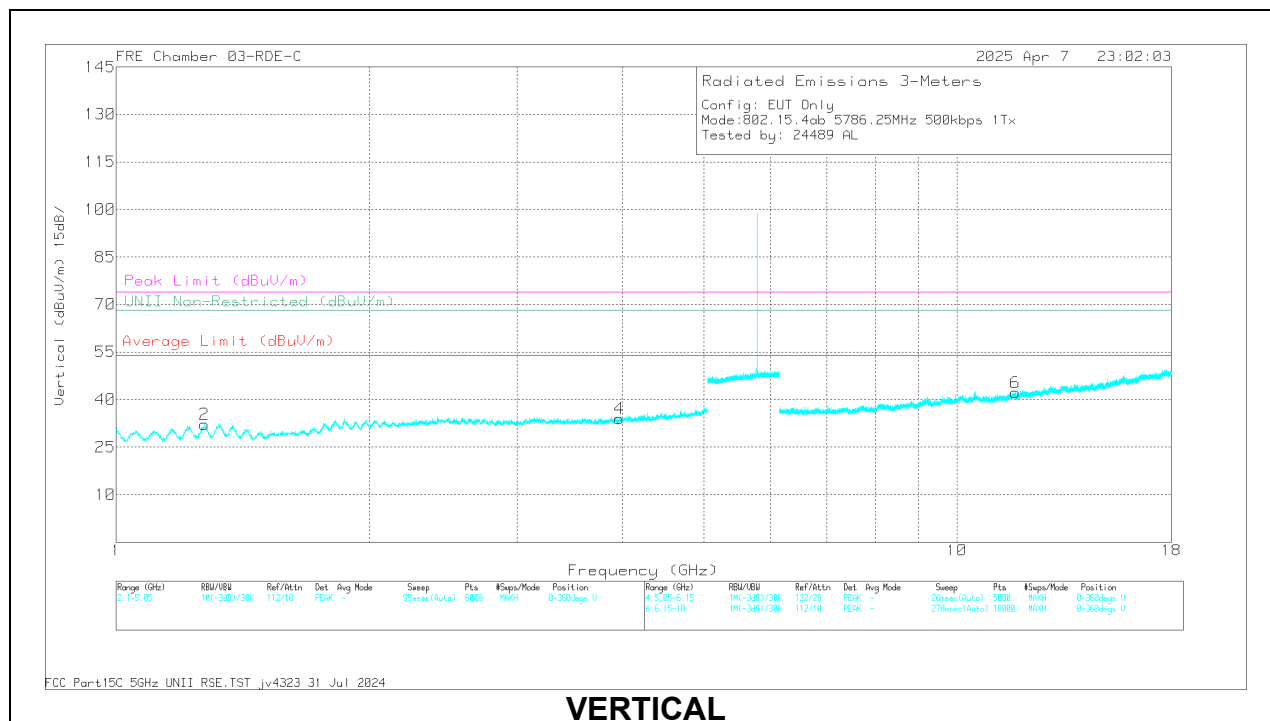
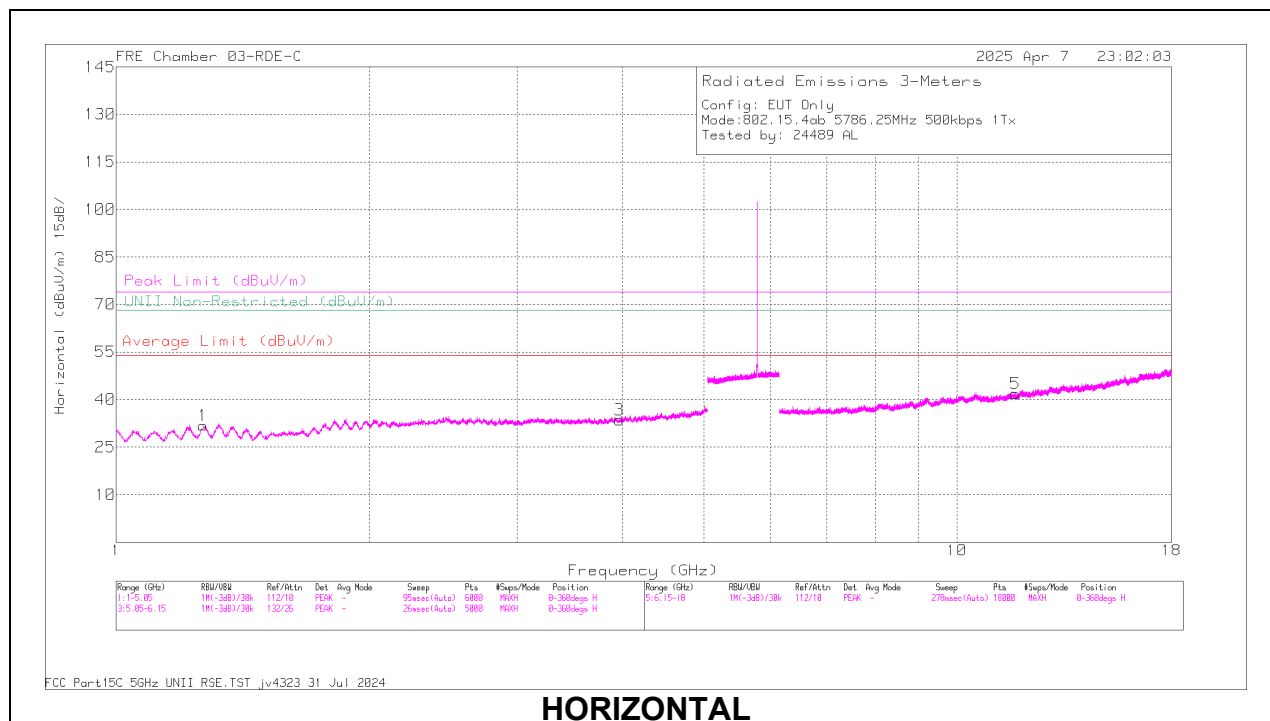
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.329257	62.01	PK-U	29.3	0	-47.8	43.51	-	-	74	-30.49	360	101	H
	* 1.327088	48.33	ADR	29.3	3.63	-47.8	33.46	54	-20.54	-	-	360	101	H
2	* 1.325197	60.7	PK-U	29.3	0	-47.8	42.2	-	-	74	-31.8	360	101	V
	* 1.325012	48.32	ADR	29.3	3.63	-47.8	33.45	54	-20.55	-	-	360	101	V
3	* 3.996173	55.5	PK-U	33.4	0	-45.9	43	-	-	74	-31	360	101	H
	* 3.995585	43.47	ADR	33.4	3.63	-45.9	34.6	54	-19.4	-	-	360	101	H
4	* 3.992143	55.68	PK-U	33.4	0	-45.9	43.18	-	-	74	-30.82	360	101	V
	* 3.992508	43.68	ADR	33.4	3.63	-45.9	34.81	54	-19.19	-	-	360	101	V
5	* 11.579722	55.7	PK-U	38.4	0	-43.3	50.8	-	-	74	-23.2	360	101	H
	* 11.578319	43.85	ADR	38.4	3.63	-43.3	42.58	54	-11.42	-	-	360	101	H
6	* 11.580343	56.03	PK-U	38.4	0	-43.3	51.13	-	-	74	-22.87	360	101	V
	* 11.577941	44.02	ADR	38.4	3.63	-43.3	42.75	54	-11.25	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

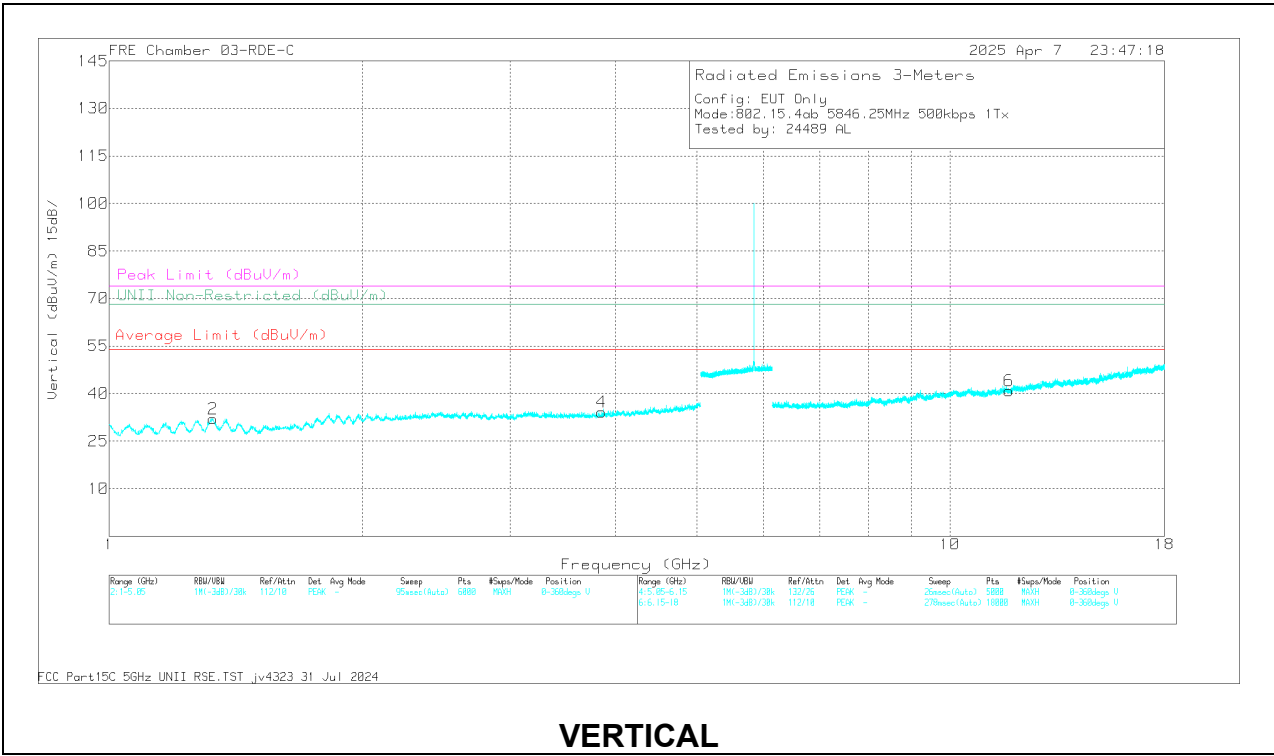
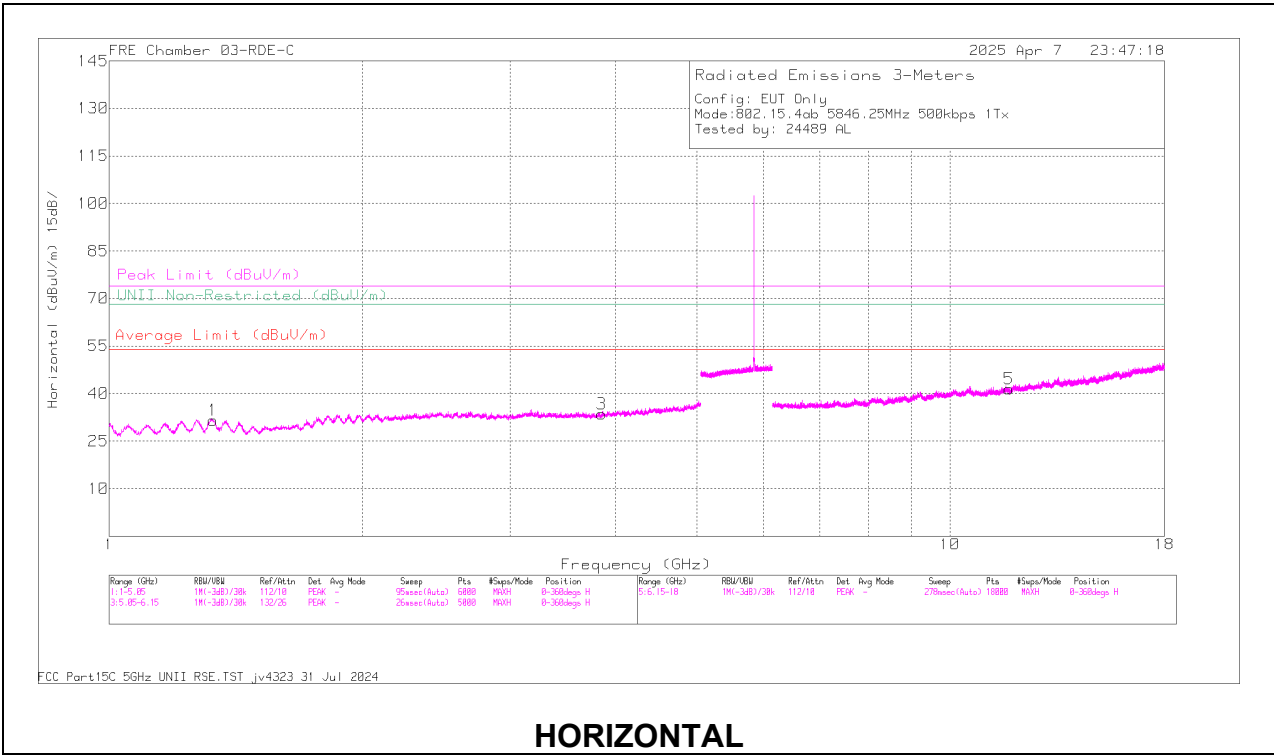
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.268237	60.54	PK-U	29.3	0	-47.88	41.96	-	-	74	-32.04	1	101	H
	* 1.269611	48.3	ADR	29.3	3.63	-47.86	33.37	54	-20.63	-	-	1	101	H
2	* 1.273758	60.25	PK-U	29.4	0	-47.82	41.83	-	-	74	-32.17	1	101	V
	* 1.272543	48.45	ADR	29.3	3.63	-47.9	33.48	54	-20.52	-	-	1	101	V
3	* 3.971144	56.34	PK-U	33.4	0	-45.81	43.93	-	-	74	-30.07	1	101	H
	* 3.970962	44.37	ADR	33.4	3.63	-45.8	35.6	54	-18.4	-	-	1	101	H
4	* 3.966204	56.12	PK-U	33.4	0	-45.7	43.82	-	-	74	-30.18	1	200	V
	* 3.967199	44.41	ADR	33.4	3.63	-45.72	35.72	54	-18.28	-	-	1	200	V
5	* 11.739114	55.83	PK-U	38.6	0	-42.9	51.53	-	-	74	-22.47	1	101	H
	* 11.737607	43.94	ADR	38.6	3.63	-42.9	43.27	54	-10.73	-	-	1	101	H
6	* 11.735968	55.95	PK-U	38.6	0	-42.9	51.65	-	-	74	-22.35	1	101	V
	* 11.737923	44.13	ADR	38.6	3.63	-42.9	43.46	54	-10.54	-	-	1	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.327886	61.28	PK-U	29.3	0	-47.8	42.78	-	-	74	-31.22	2	199	H
	* 1.326848	48.71	ADR	29.3	3.63	-47.8	33.84	54	-20.16	-	-	2	199	H
2	* 1.328842	60.71	PK-U	29.3	0	-47.8	42.21	-	-	74	-31.79	2	199	V
	* 1.327045	48.69	ADR	29.3	3.63	-47.8	33.82	54	-20.18	-	-	2	199	V
3	* 3.855932	56.93	PK-U	33.1	0	-45.8	44.23	-	-	74	-29.77	2	101	H
	* 3.856847	44.26	ADR	33.1	3.63	-45.8	35.19	54	-18.81	-	-	2	101	H
4	* 3.85323	56.51	PK-U	33.1	0	-45.82	43.79	-	-	74	-30.21	2	199	V
	* 3.851846	44.51	ADR	33.1	3.63	-45.8	35.44	54	-18.56	-	-	2	199	V
5	* 11.762876	56.25	PK-U	38.6	0	-43.29	51.56	-	-	74	-22.44	2	199	H
	* 11.760286	44.18	ADR	38.6	3.63	-43.2	43.21	54	-10.79	-	-	2	199	H
6	* 11.756342	56.67	PK-U	38.6	0	-43.2	52.07	-	-	74	-21.93	2	199	V
	* 11.756556	44.24	ADR	38.6	3.63	-43.2	43.27	54	-10.73	-	-	2	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

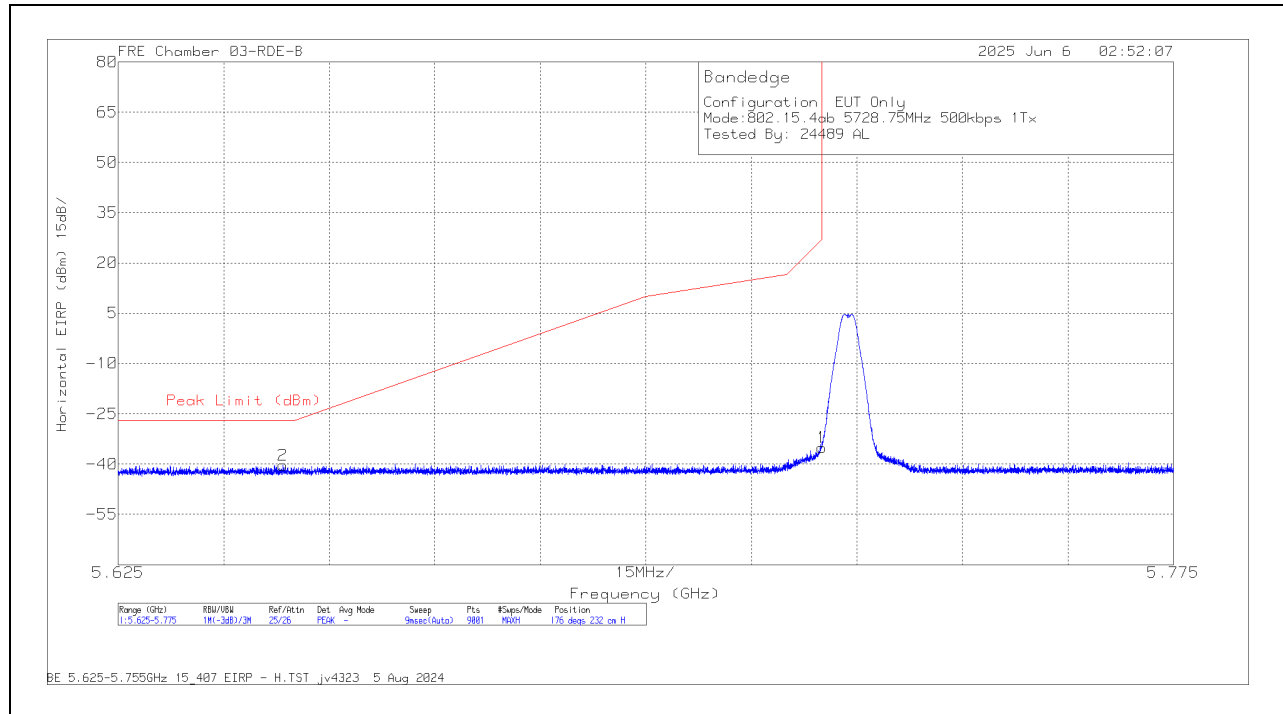
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.3. ANT 6, 500Kbps LOW POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

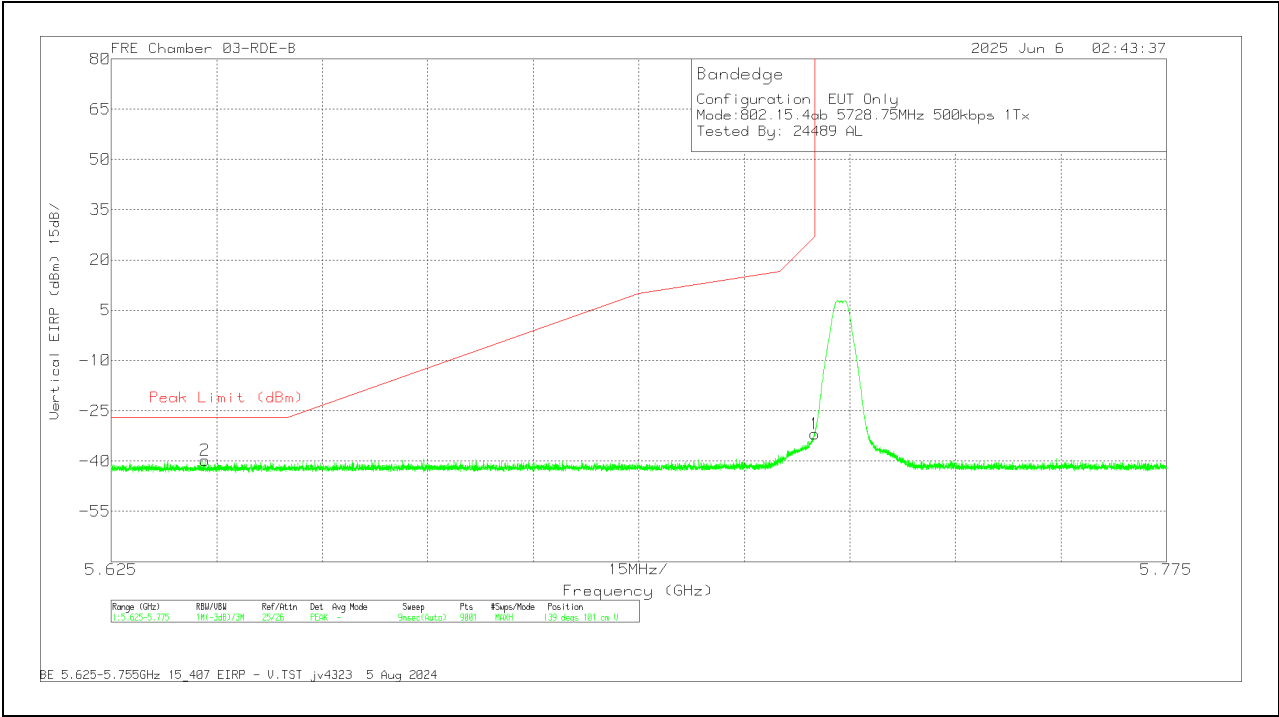
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-42.67	Pk	34.6	11.8	0	-38.8	-35.07	27	-62.07	176	232	H
2	5.648434	-47.7	Pk	34.5	11.8	0	-39	-40.4	-27	-13.4	176	232	H

Pk - Peak detector

VERTICAL RESULT

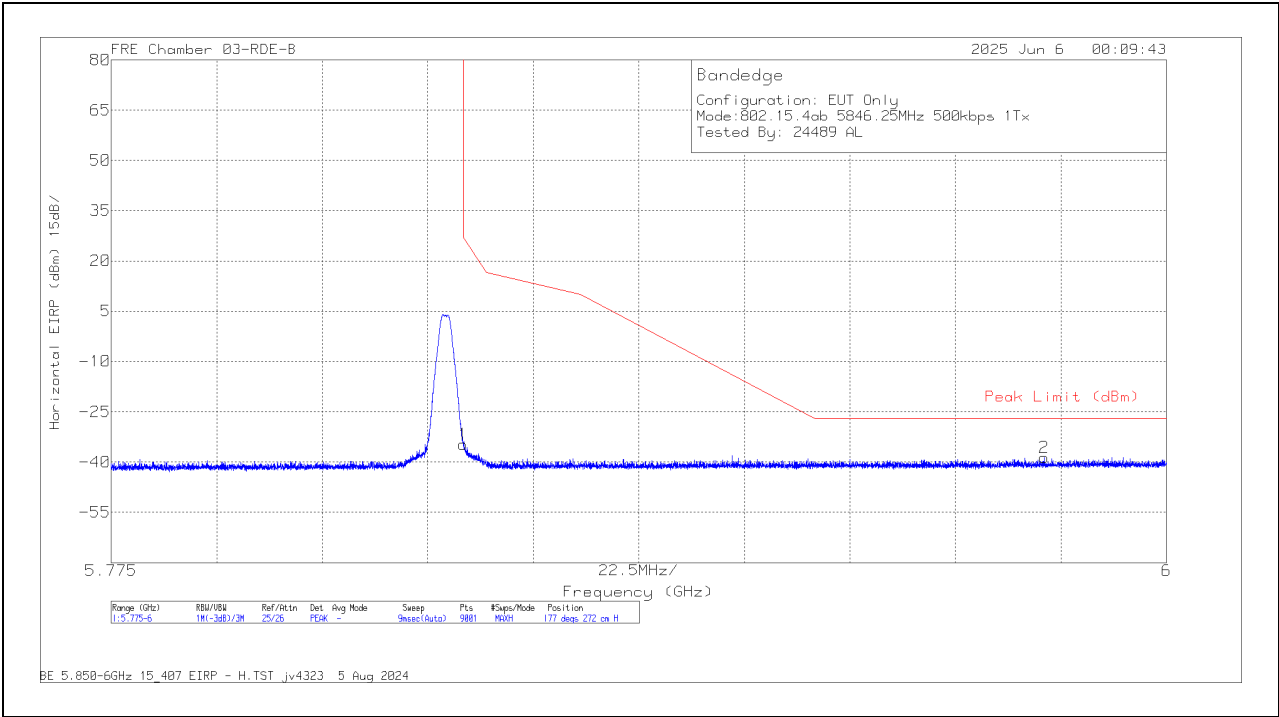


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-39.49	Pk	34.6	11.8	0	-38.8	-31.89	27	-58.89	139	101	V
2	5.6383	-47.06	Pk	34.5	11.8	0	-39	-39.76	-27	-12.76	139	101	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

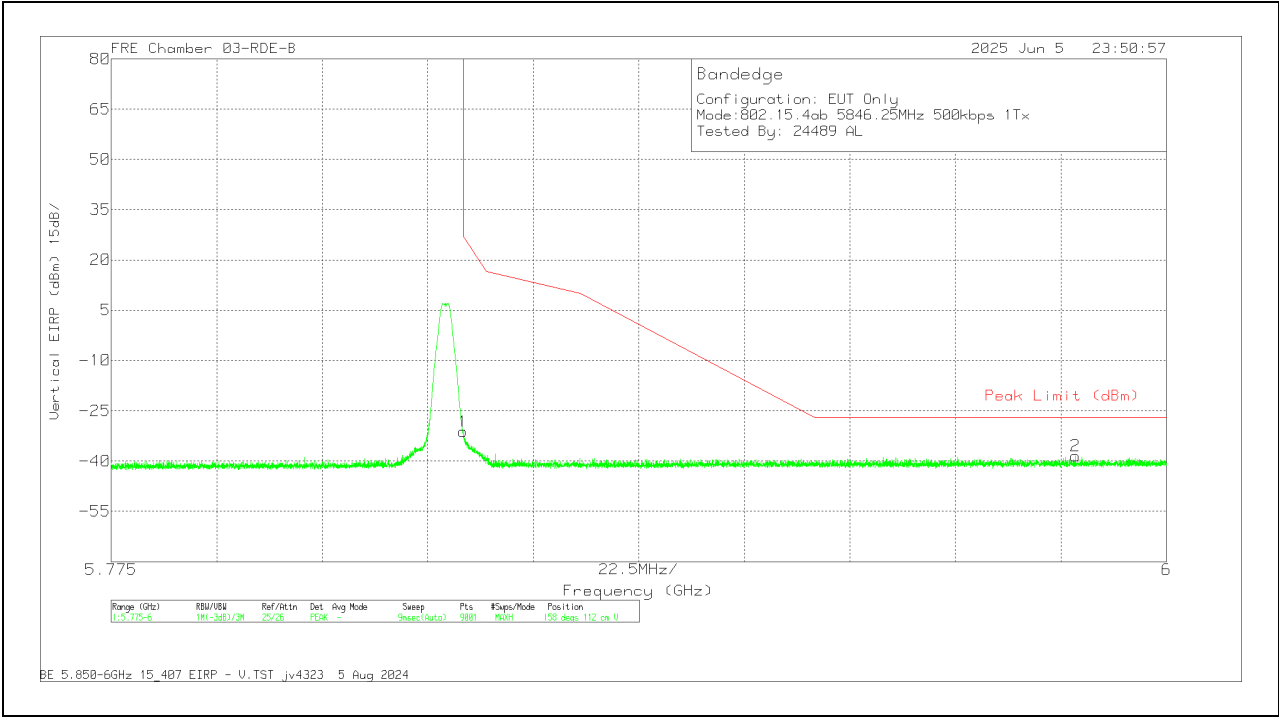
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-42.87	Pk	34.9	11.8	0	-38.5	-34.67	27	-61.67	177	272	H
2	5.973875	-47.41	Pk	35.2	11.8	0	-38.2	-38.61	-27	-11.61	177	272	H

Pk - Peak detector

VERTICAL RESULT

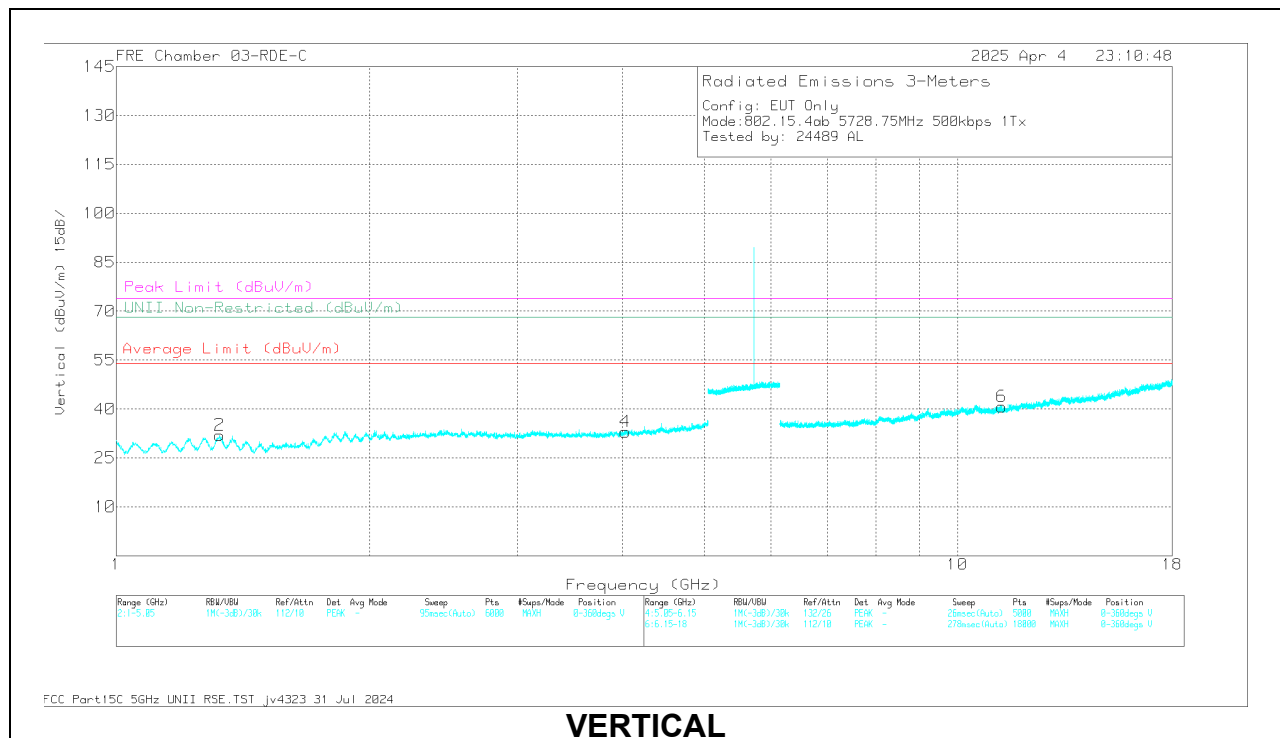
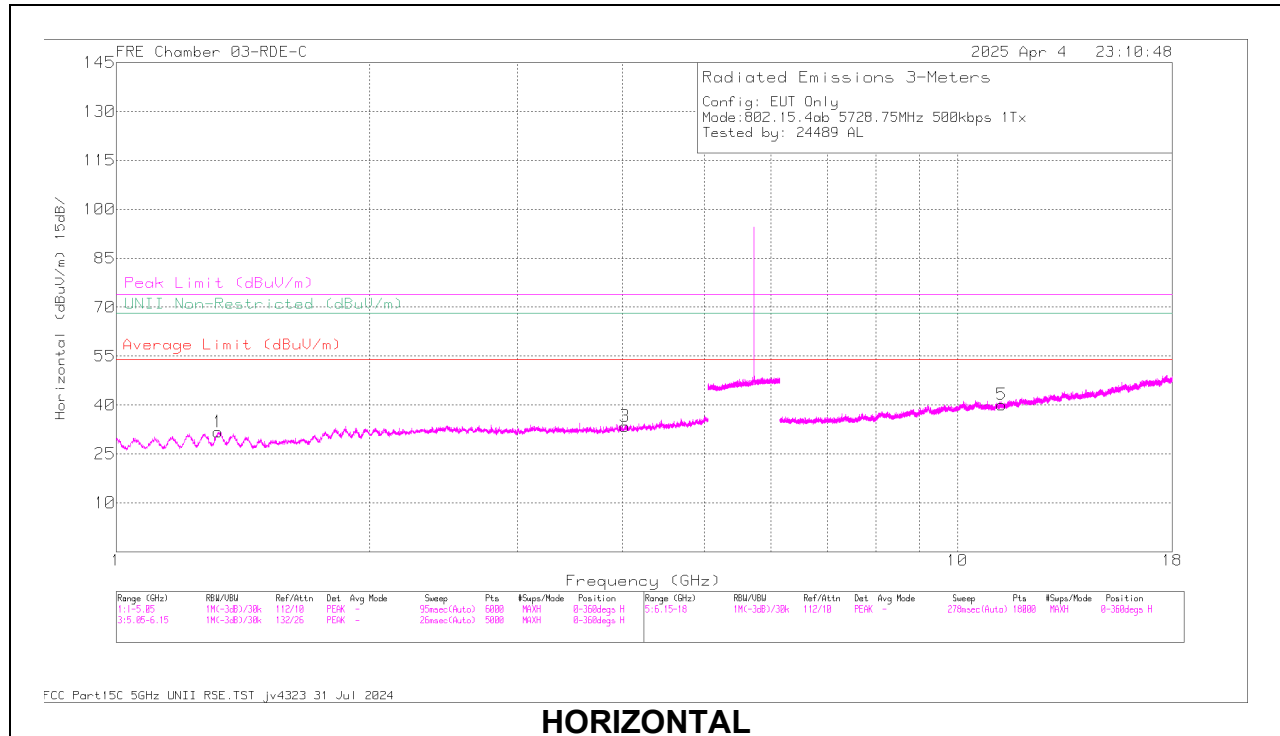


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	223084 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-39.43	Pk	34.9	11.8	0	-38.5	-31.23	27	-58.23	158	112	V
2	5.98065	-47.19	Pk	35.2	11.8	0	-38.2	-38.39	-27	-11.39	158	112	V

Pk - Peak detector

10.1.4. ANT 6, 500Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

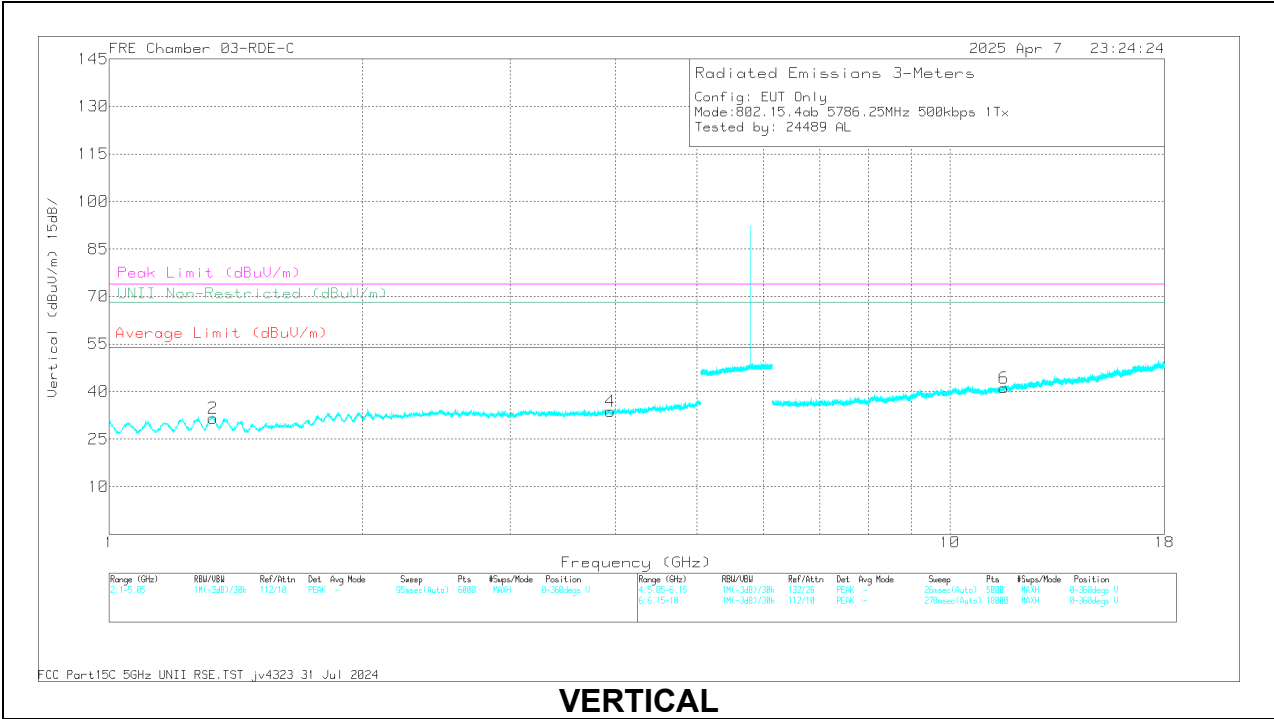
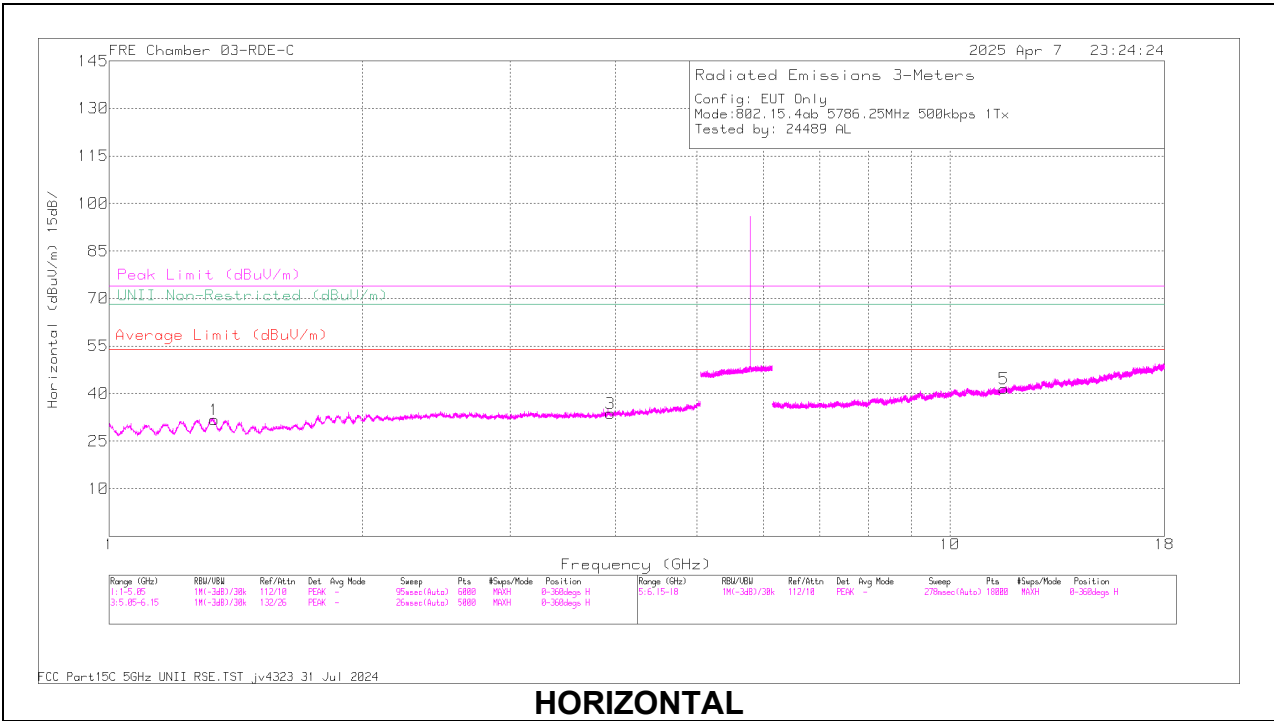
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.321029	60.2	PK-U	29.3	0	-47.8	41.7	-	-	74	-32.3	360	101	H
	* 1.322174	48.18	ADR	29.3	3.63	-47.8	33.31	54	-20.69	-	-	360	101	H
2	* 1.326063	60.29	PK-U	29.3	0	-47.8	41.79	-	-	74	-32.21	360	101	V
	* 1.325058	48.29	ADR	29.3	3.63	-47.8	33.42	54	-20.58	-	-	360	101	V
3	* 4.023055	56.72	PK-U	33.4	0	-45.9	44.22	-	-	74	-29.78	360	101	H
	* 4.023154	44.09	ADR	33.4	3.63	-45.9	35.22	54	-18.78	-	-	360	101	H
4	* 4.028058	55.85	PK-U	33.4	0	-46.01	43.24	-	-	74	-30.76	360	200	V
	* 4.026231	43.92	ADR	33.4	3.63	-46	34.95	54	-19.05	-	-	360	200	V
5	* 11.288666	55.48	PK-U	38.1	0	-43.3	50.28	-	-	74	-23.72	360	101	H
	* 11.289998	43.49	ADR	38.1	3.63	-43.3	41.92	54	-12.08	-	-	360	101	H
6	* 11.286856	55.65	PK-U	38.1	0	-43.3	50.45	-	-	74	-23.55	360	101	V
	* 11.286628	43.53	ADR	38.1	3.63	-43.3	41.96	54	-12.04	-	-	360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

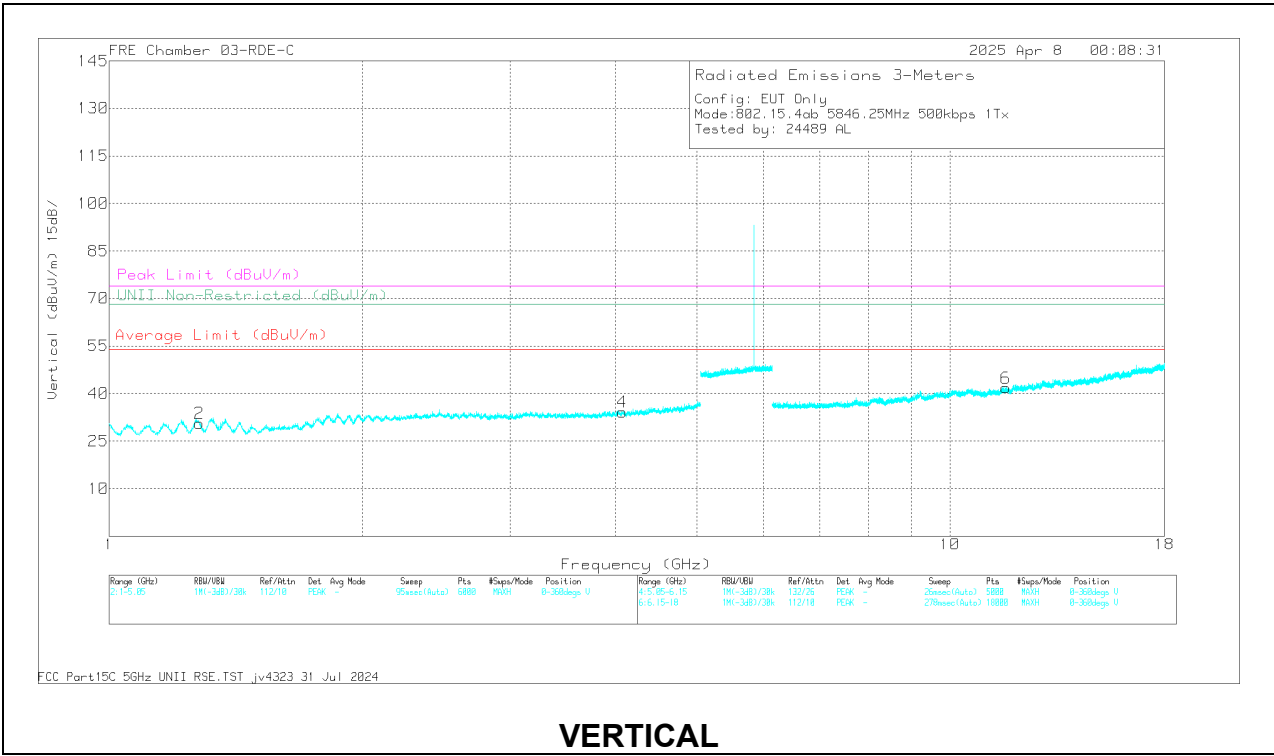
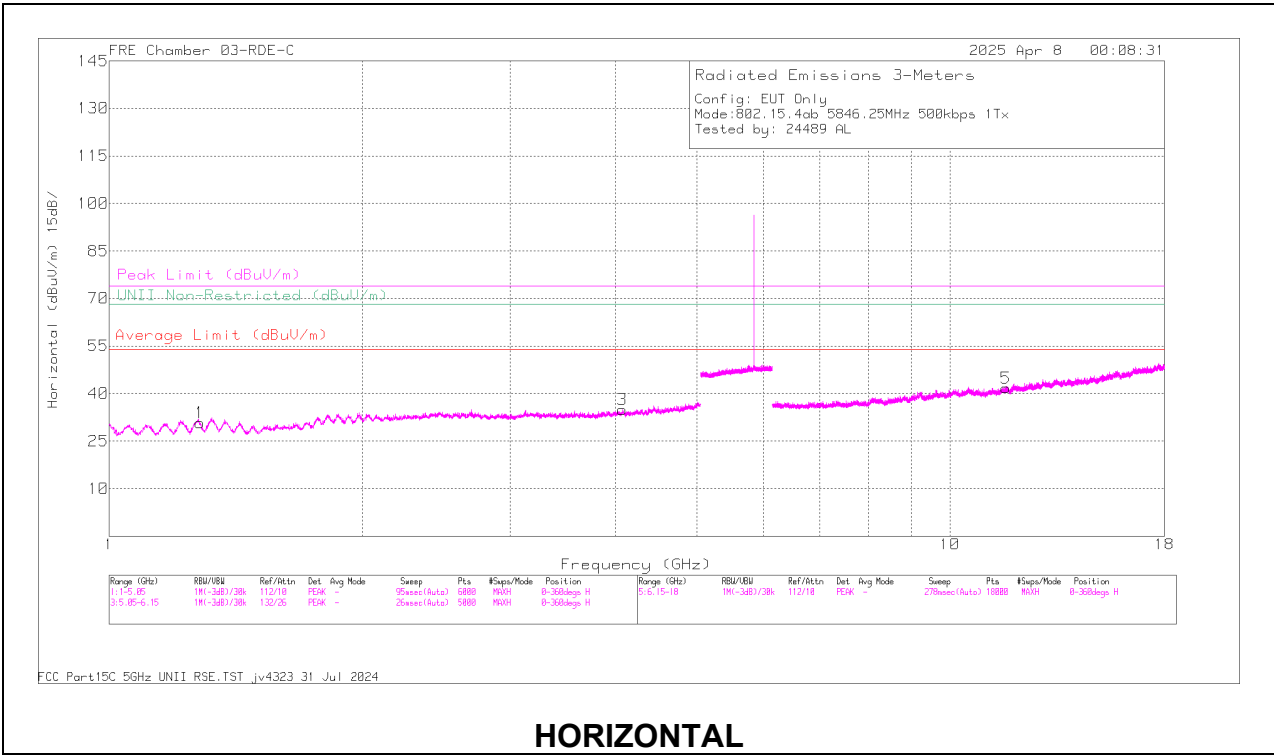
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.33336	59.79	PK-U	29.3	0	-47.76	41.33	-	-	74	-32.67	0	101	H
	* 1.331852	48.22	ADR	29.3	3.63	-47.71	33.44	54	-20.56	-	-	0	101	H
2	* 1.329933	60.28	PK-U	29.3	0	-47.8	41.78	-	-	74	-32.22	0	101	V
	* 1.328485	48.51	ADR	29.3	3.63	-47.8	33.64	54	-20.36	-	-	0	101	V
3	* 3.946386	55.8	PK-U	33.4	0	-45.8	43.4	-	-	74	-30.6	0	101	H
	* 3.946533	44.15	ADR	33.4	3.63	-45.8	35.38	54	-18.62	-	-	0	101	H
4	* 3.941952	56.18	PK-U	33.4	0	-45.8	43.78	-	-	74	-30.22	0	101	V
	* 3.941876	44.18	ADR	33.4	3.63	-45.8	35.41	54	-18.59	-	-	0	101	V
5	* 11.597415	57.06	PK-U	38.4	0	-43.4	52.06	-	-	74	-21.94	0	199	H
	* 11.598237	44.44	ADR	38.4	3.63	-43.4	43.07	54	-10.93	-	-	0	199	H
6	* 11.595132	56.36	PK-U	38.4	0	-43.4	51.36	-	-	74	-22.64	0	101	V
	* 11.595984	44.52	ADR	38.4	3.63	-43.4	43.15	54	-10.85	-	-	0	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.27964	59.65	PK-U	29.4	0	-47.9	41.15	-	-	74	-32.85	0	101	H
	* 1.28	47.58	ADR	29.4	3.63	-47.9	32.71	54	-21.29	-	-	0	101	H
2	* 1.279377	59.65	PK-U	29.4	0	-47.9	41.15	-	-	74	-32.85	0	199	V
	* 1.278929	48	ADR	29.4	3.63	-47.9	33.13	54	-20.87	-	-	0	199	V
3	* 4.07603	57.06	PK-U	33.4	0	-46.1	44.36	-	-	74	-29.64	0	101	H
	* 4.076708	45.12	ADR	33.4	3.63	-46.1	36.05	54	-17.95	-	-	0	101	H
4	* 4.077951	57.54	PK-U	33.4	0	-46.2	44.74	-	-	74	-29.26	0	101	V
	* 4.076	45.12	ADR	33.4	3.63	-46.1	36.05	54	-17.95	-	-	0	101	V
5	* 11.659019	56.26	PK-U	38.5	0	-43	51.76	-	-	74	-22.24	0	199	H
	* 11.658003	44.07	ADR	38.5	3.63	-43	43.2	54	-10.8	-	-	0	199	H
6	* 11.657151	56.6	PK-U	38.5	0	-43.08	52.02	-	-	74	-21.98	0	199	V
	* 11.655175	44.32	ADR	38.5	3.63	-43.08	43.37	54	-10.63	-	-	0	199	V

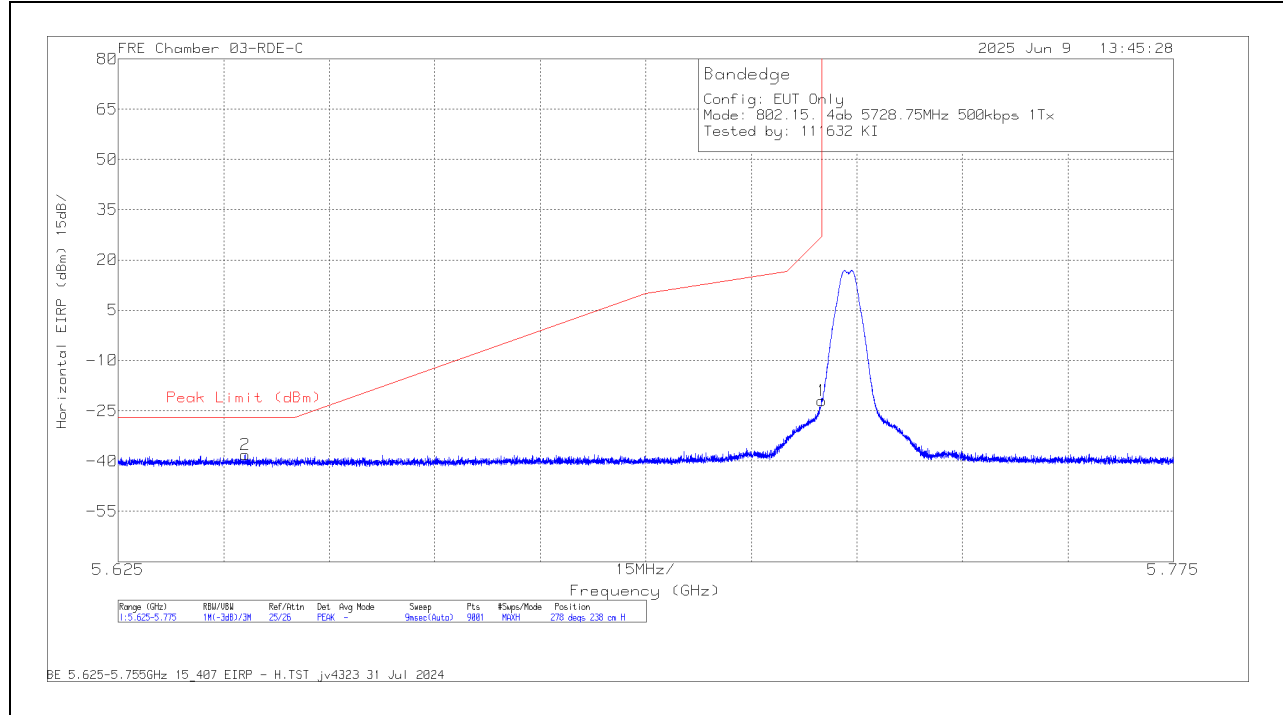
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

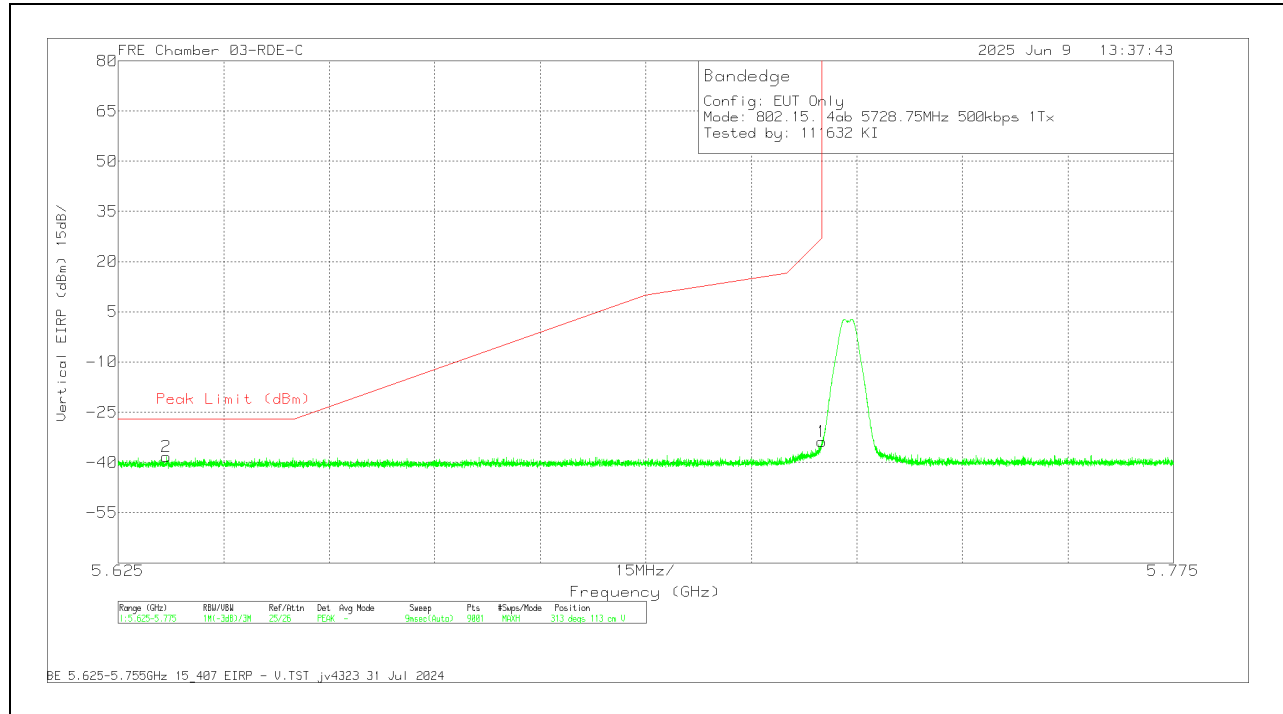
10.1.5. ANT 5, 500Kbps, HIGH POWER BAND EDGE IN THE 5.8 GHz BAND **BANDEDGE (LOW CHANNEL)**

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.643034	-48.13	Pk	34.8	11.8	0	-36.6	-38.13	-27	-11.13	278	238	H
1	5.725	-32.34	Pk	34.9	11.8	0	-36.29	-21.93	27	-48.93	278	238	H

Pk - Peak detector

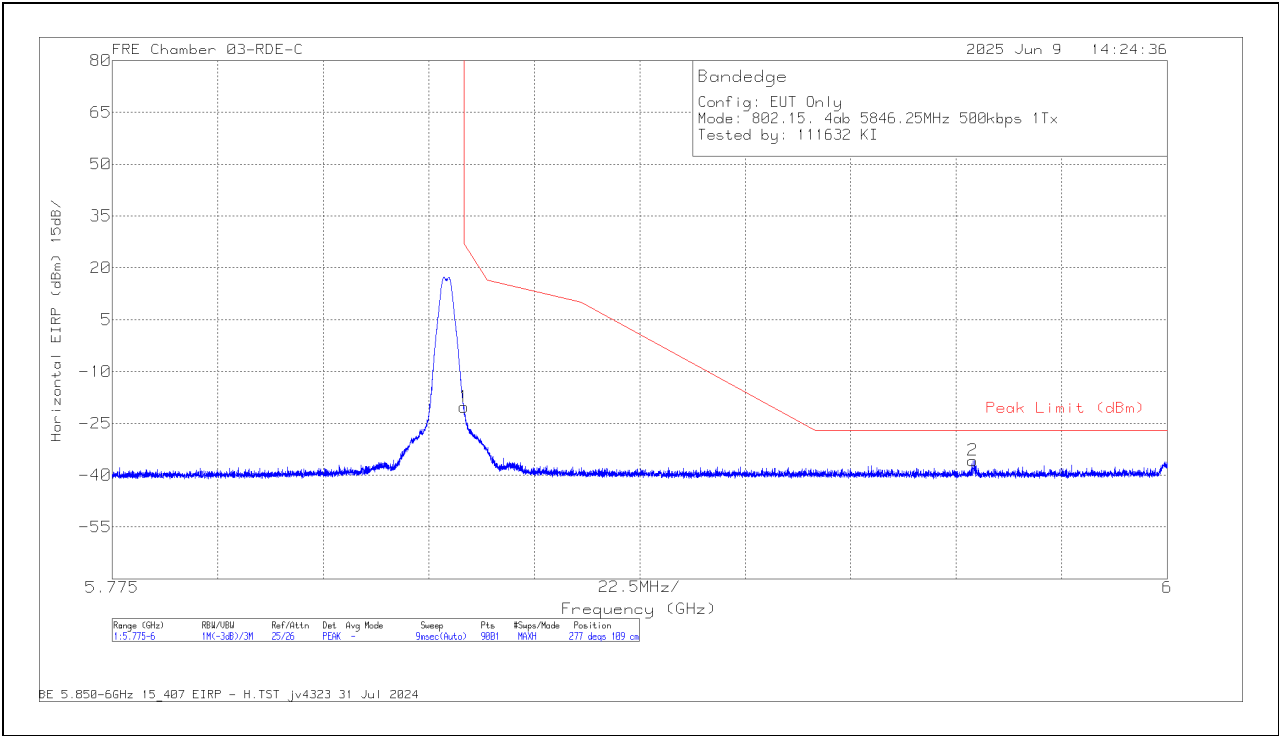
VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.631833	-48.29	Pk	34.8	11.8	0	-36.61	-38.3	-27	-11.3	313	113	V
1	5.725	-44.18	Pk	34.9	11.8	0	-36.29	-33.77	27	-60.77	313	113	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

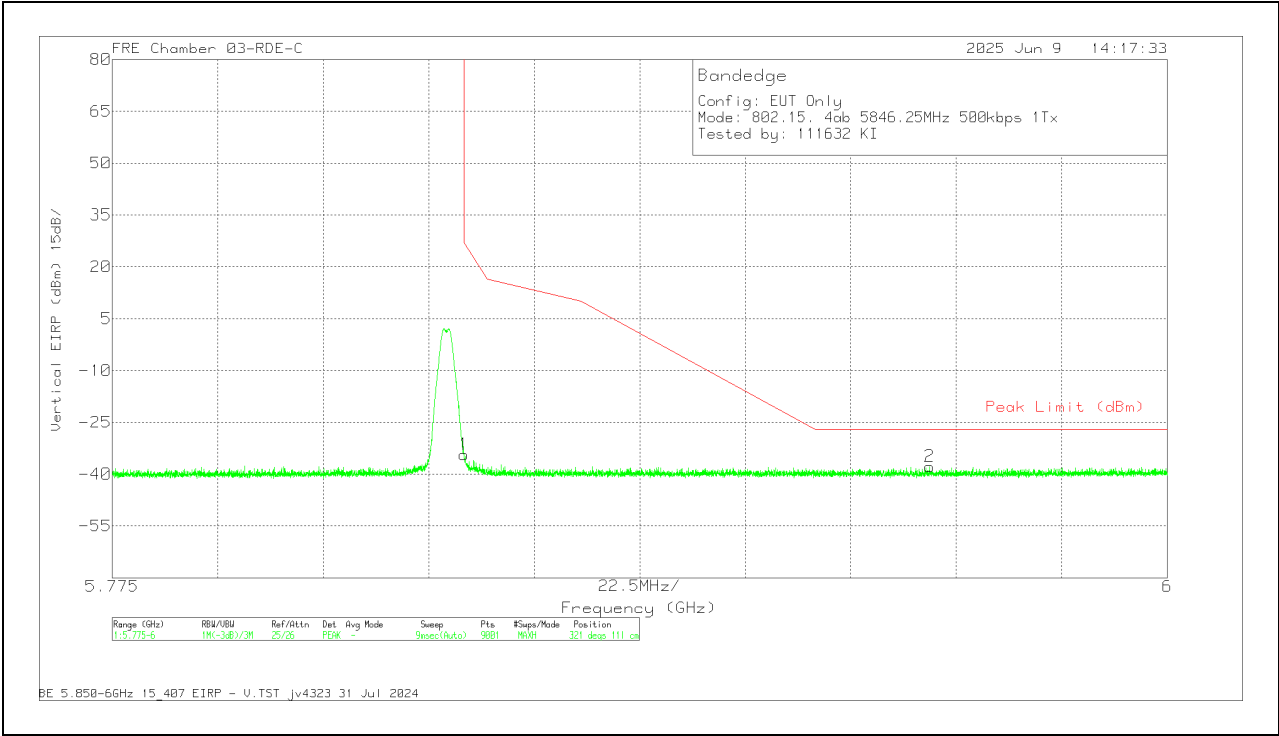
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-31.2	Pk	35.1	11.8	0	-35.92	-20.22	27	-47.22	277	109	H
2	5.958525	-46.89	Pk	35.2	11.8	0	-35.84	-35.73	-27	-8.73	277	109	H

Pk - Peak detector

VERTICAL RESULT

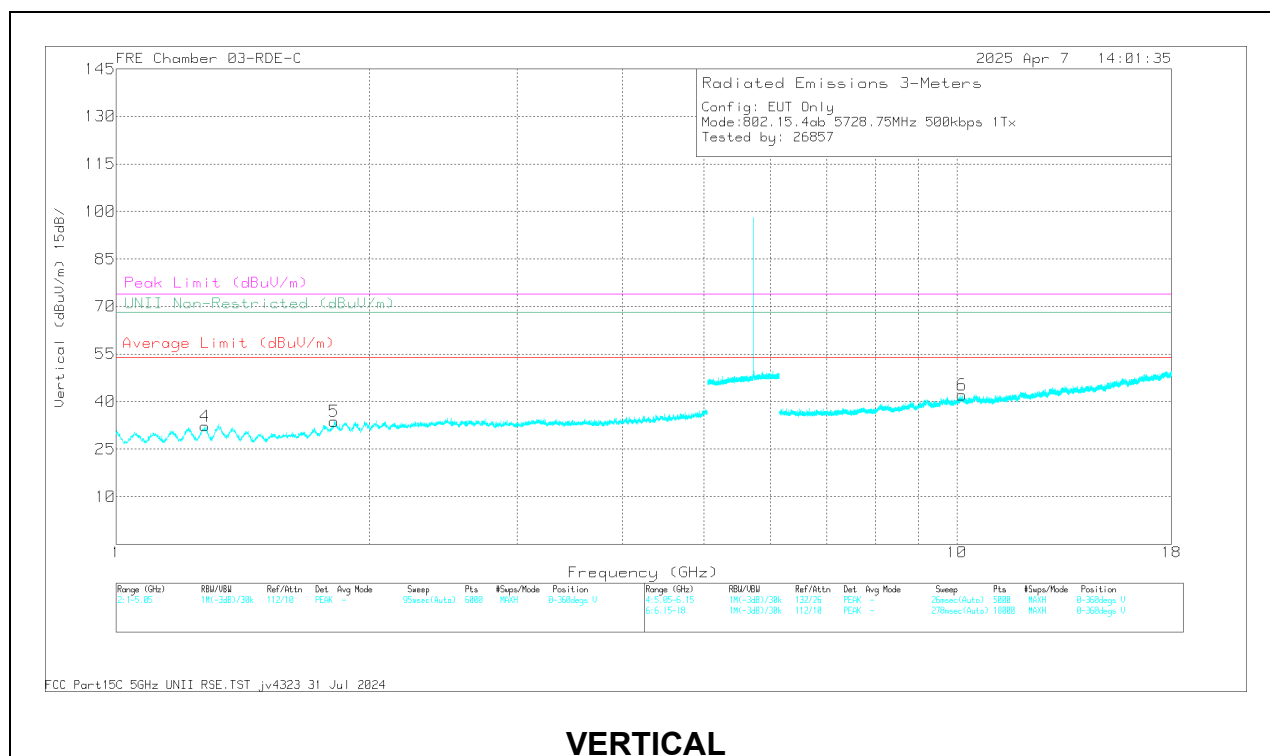
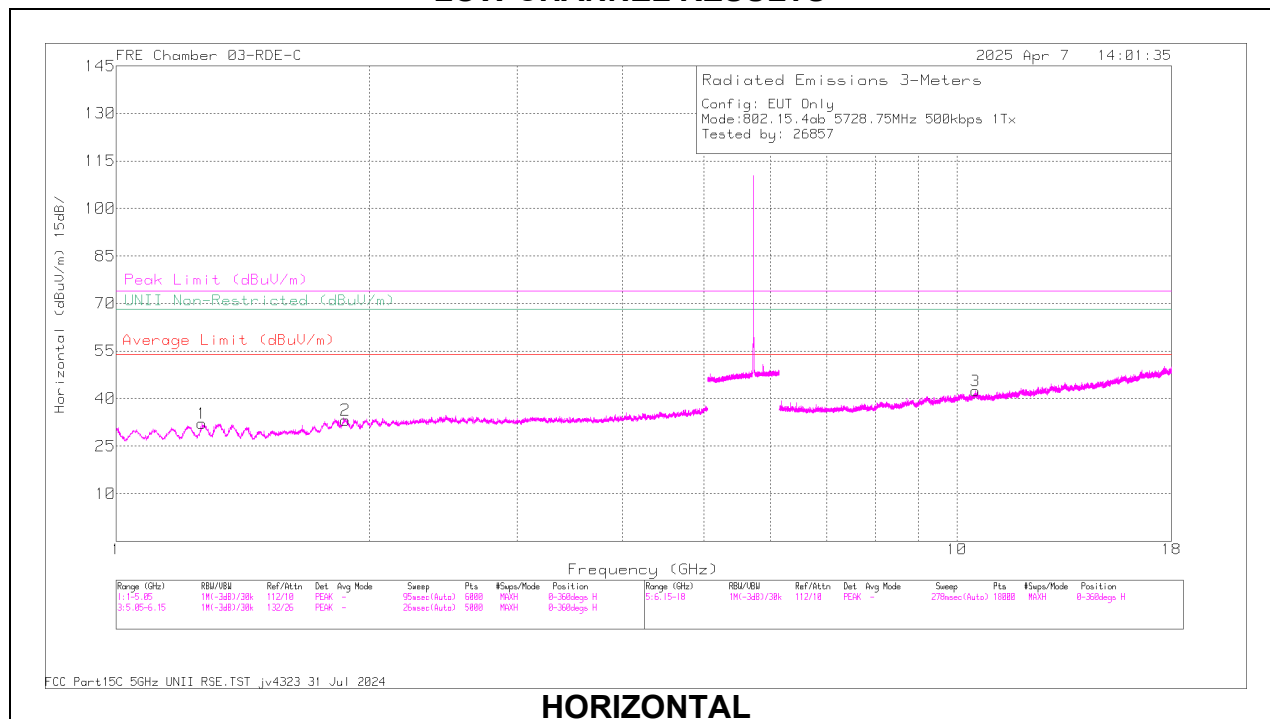


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.29	Pk	35.1	11.8	-35.92	-34.31	27	-61.31	321	111	V
2	5.949325	-48.93	Pk	35.2	11.8	-35.82	-37.75	-27	-10.75	321	111	V

Pk - Peak detector

10.1.6. ANT 5, 500Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

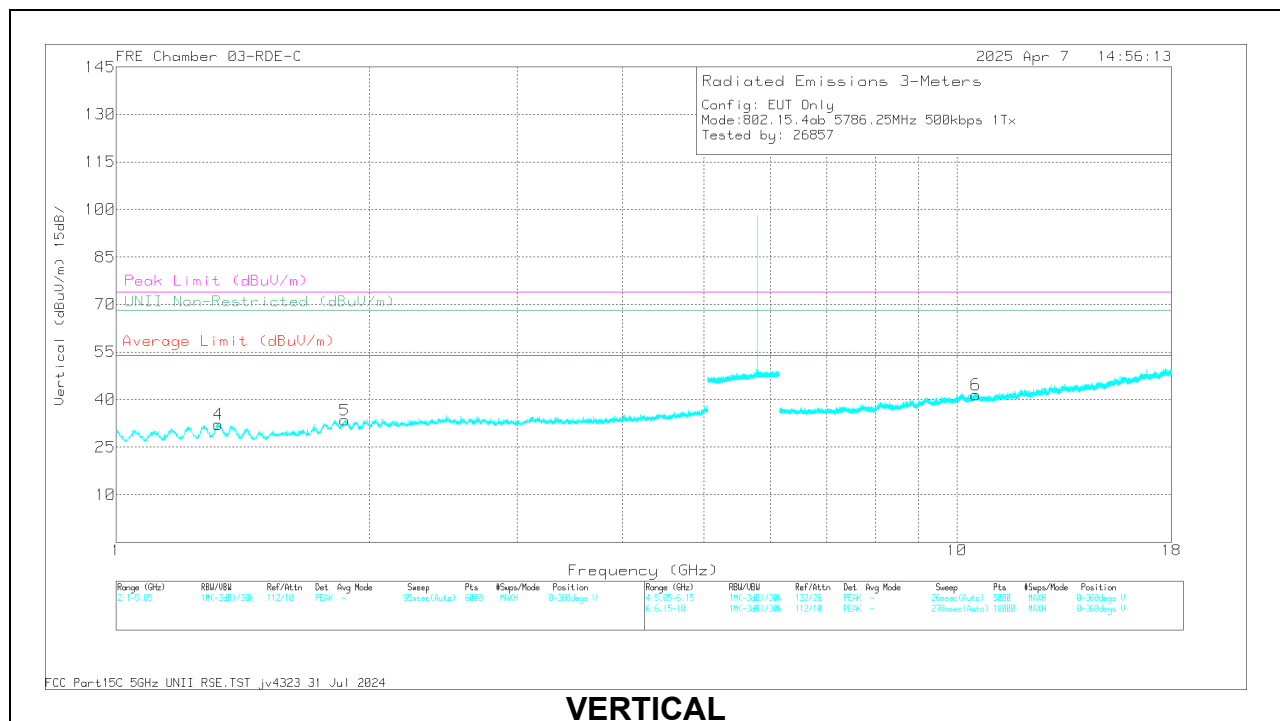
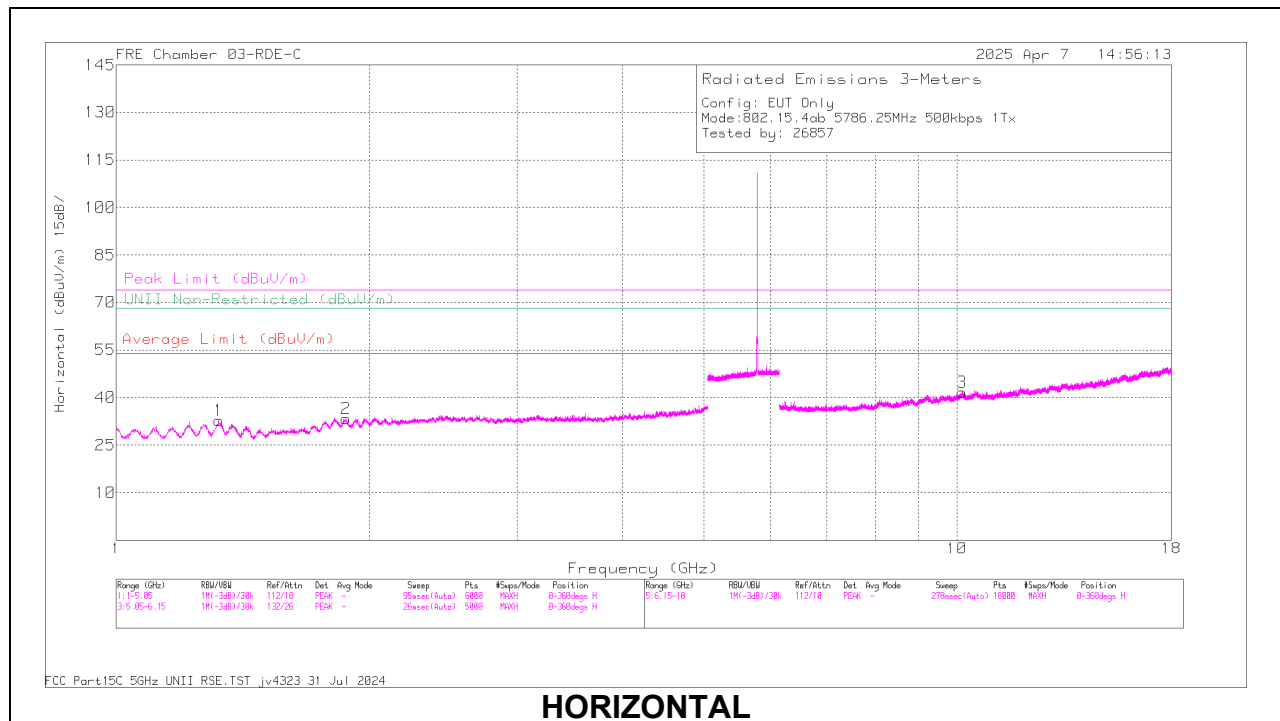
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	Gain/Loss (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.266642	59.78	PK-U	29.3	-47.9	0	41.18	-	-	74	-32.82	-	-	1	101	H
	* 1.266101	48.12	ADR	29.3	-47.9	3.63	33.15	54	-20.85	-	-	-	-	1	101	H
2	1.873723	60.73	PK-U	30.9	-47.5	0	44.13	-	-	-	-	68.2	-24.07	1	101	H
3	10.524448	57.22	PK-U	37.7	-43.5	0	51.42	-	-	-	-	68.2	-16.78	1	198	H
4	* 1.274038	60.32	PK-U	29.4	-47.8	0	41.92	-	-	74	-32.08	-	-	1	199	V
	* 1.275069	48.43	ADR	29.4	-47.9	3.63	33.56	54	-20.44	-	-	-	-	1	199	V
5	1.817415	60.74	PK-U	30.6	-47.9	0	43.44	-	-	-	-	68.2	-24.76	1	101	V
6	10.139369	56.85	PK-U	37.5	-43.8	0	50.55	-	-	-	-	68.2	-17.65	1	198	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

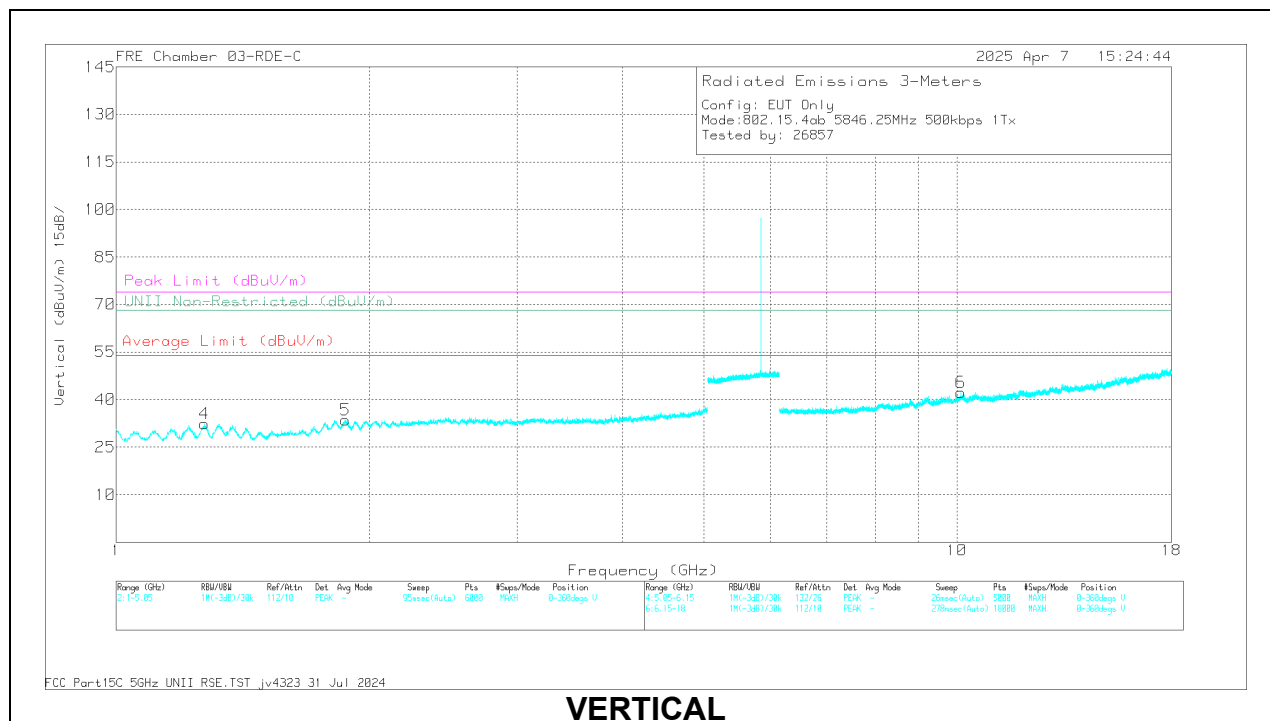
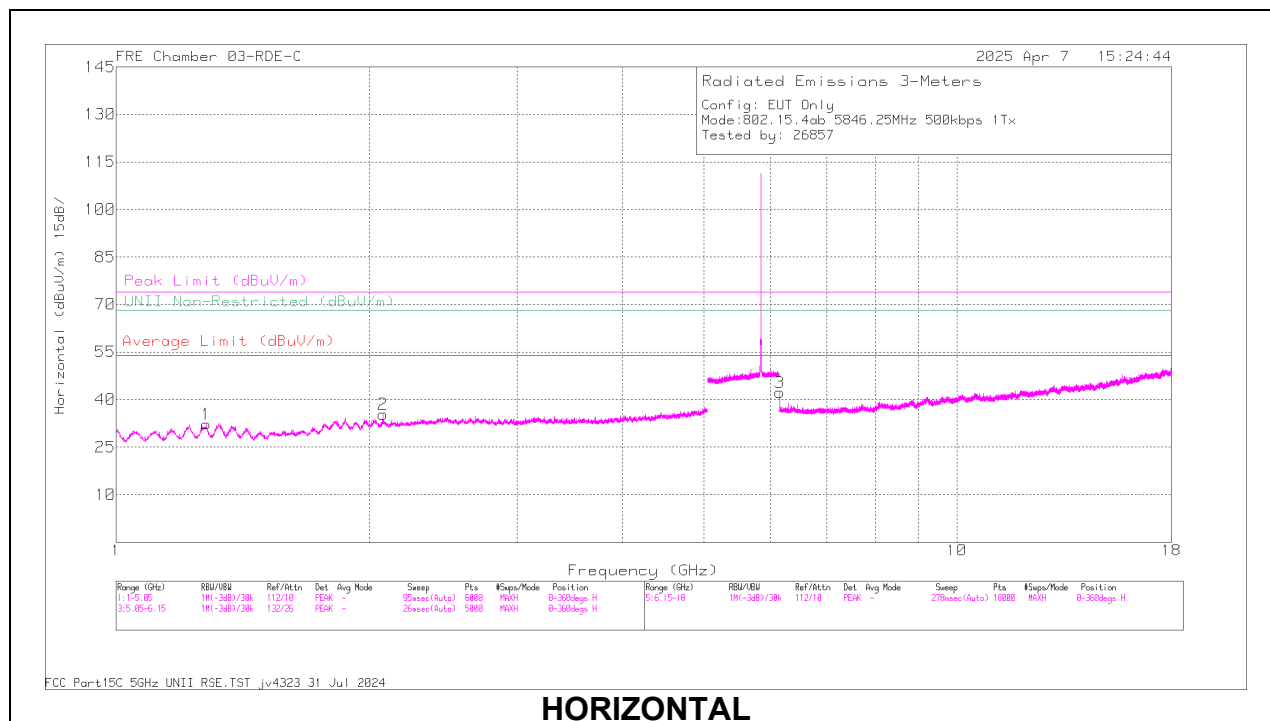
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	Gain/Loss (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.325117	60.46	PK-U	29.3	-47.8	0	41.96	-	-	74	-32.04	-	-	0	101	H
	* 1.323373	48.75	ADR	29.3	-47.8	3.63	33.88	54	-20.12	-	-	-	-	0	101	H
2	1.874496	59.89	PK-U	30.9	-47.55	0	43.24	-	-	-	-	68.2	-24.96	0	199	H
3	10.151922	56.89	PK-U	37.5	-43.7	0	50.69	-	-	-	-	68.2	-17.51	0	200	H
4	* 1.322548	61.22	PK-U	29.3	-47.8	0	42.72	-	-	74	-31.28	-	-	0	199	V
	* 1.324759	48.83	ADR	29.3	-47.8	3.63	33.96	54	-20.04	-	-	-	-	0	199	V
5	1.870782	60.47	PK-U	30.9	-47.5	0	43.87	-	-	-	-	68.2	-24.33	0	101	V
6	10.528631	57.26	PK-U	37.7	-43.6	0	51.36	-	-	-	-	68.2	-16.84	0	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	Gain/Loss (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.281237	60.51	PK-U	29.4	-47.82	0	42.09	-	-	74	-31.91	-	-	0	101	H
	* 1.279347	47.91	ADR	29.4	-47.9	3.63	33.04	54	-20.96	-	-	-	-	0	101	H
2	2.075796	60.3	PK-U	31.2	-47.82	0	43.68	-	-	-	-	68.2	-24.52	0	200	H
3	6.152594	59.33	PK-U	35.4	-44.6	0	50.13	-	-	-	-	68.2	-18.07	0	101	H
4	* 1.273013	60.02	PK-U	29.3	-47.9	0	41.42	-	-	74	-32.58	-	-	0	200	V
	* 1.27228	48.45	ADR	29.3	-47.9	3.63	33.48	54	-20.52	-	-	-	-	0	200	V
5	1.873216	60.16	PK-U	30.9	-47.5	0	43.56	-	-	-	-	68.2	-24.64	0	101	V
6	10.112703	57.66	PK-U	37.4	-43.9	0	51.16	-	-	-	-	68.2	-17.04	0	200	V

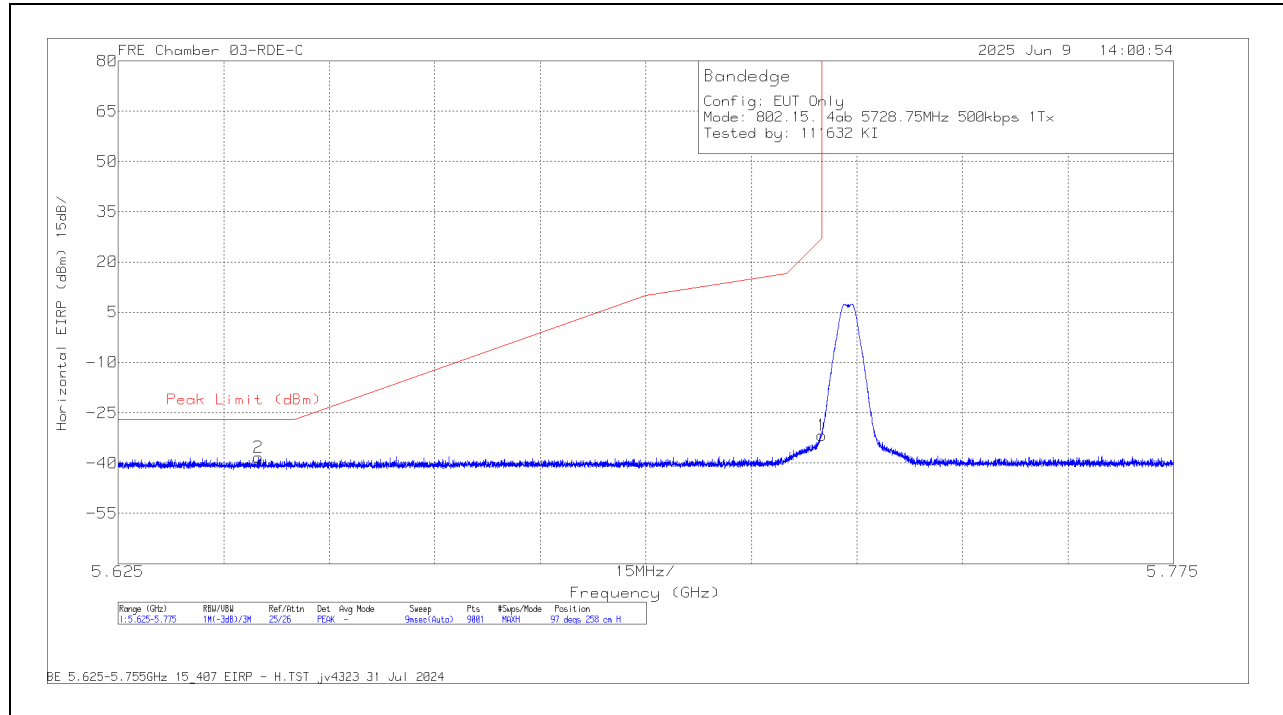
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.7. ANT 5, 500Kbps, LOW POWER BAND EDGE IN THE 5.8 GHz BAND **BANDEDGE (LOW CHANNEL)**

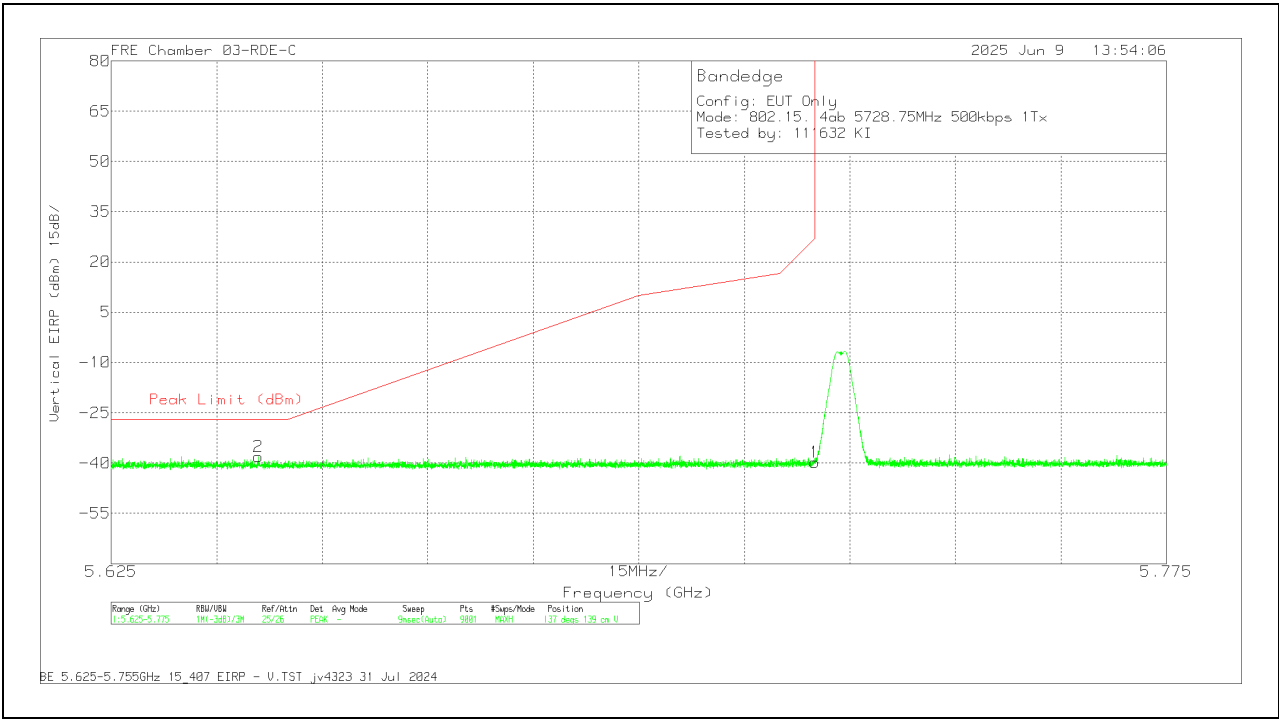
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644967	-48.29	Pk	34.8	11.8	0	-36.59	-38.28	-27	-11.28	97	258	H
1	5.725	-42.13	Pk	34.9	11.8	0	-36.29	-31.72	27	-58.72	97	258	H

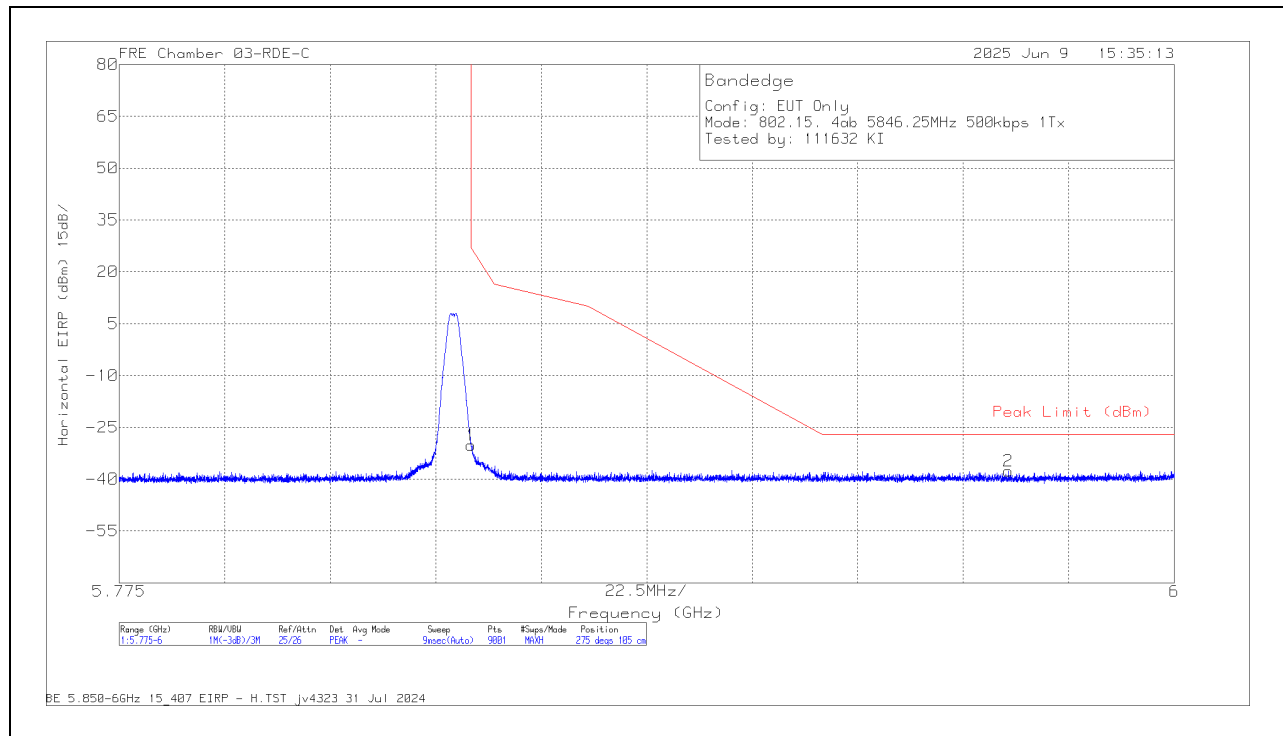
Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64595	-48.04	Pk	34.8	11.8	0	-36.58	-38.02	-27	-11.02	137	139	V
1	5.725	-50.15	Pk	34.9	11.8	0	-36.29	-39.74	27	-66.74	137	139	V

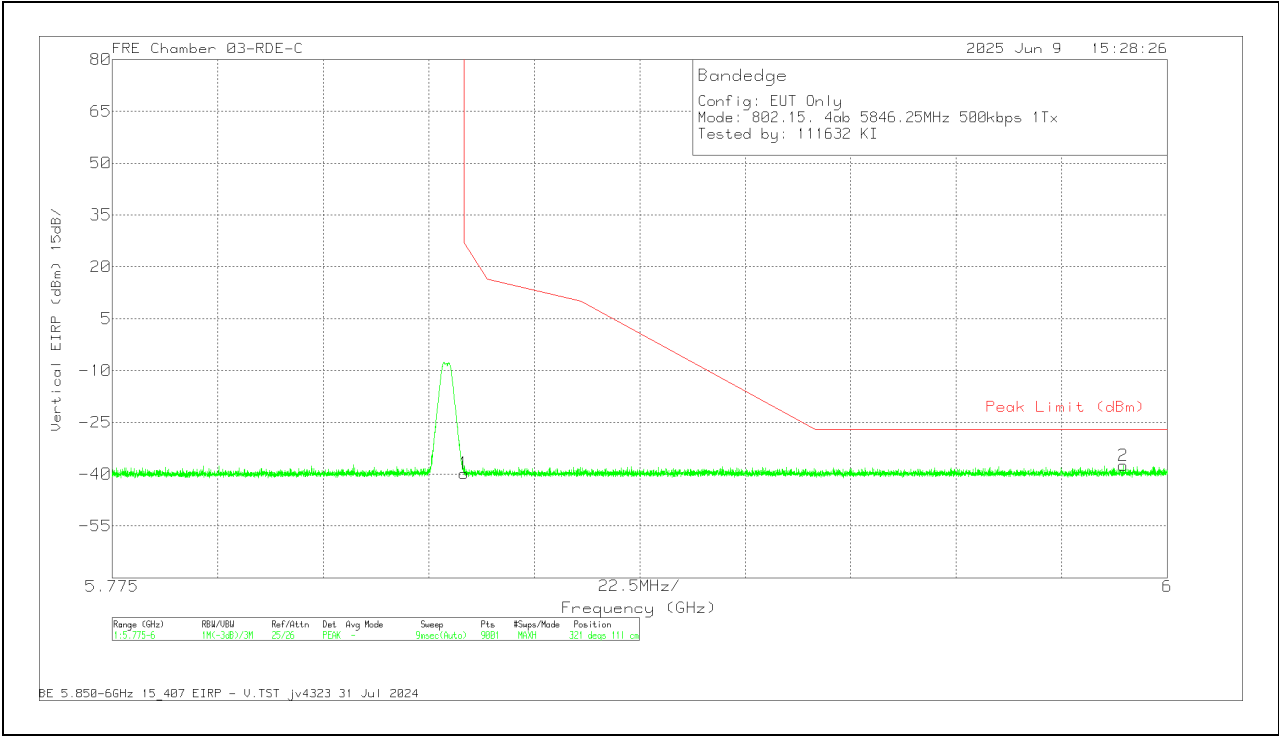
Pk - Peak detector

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-41.2	Pk	35.1	11.8	0	-35.92	-30.22	27	-57.22	275	105	H
2	5.96465	-48.84	Pk	35.2	11.8	0	-35.83	-37.67	-27	-10.67	275	105	H

Pk - Peak detector

VERTICAL RESULT

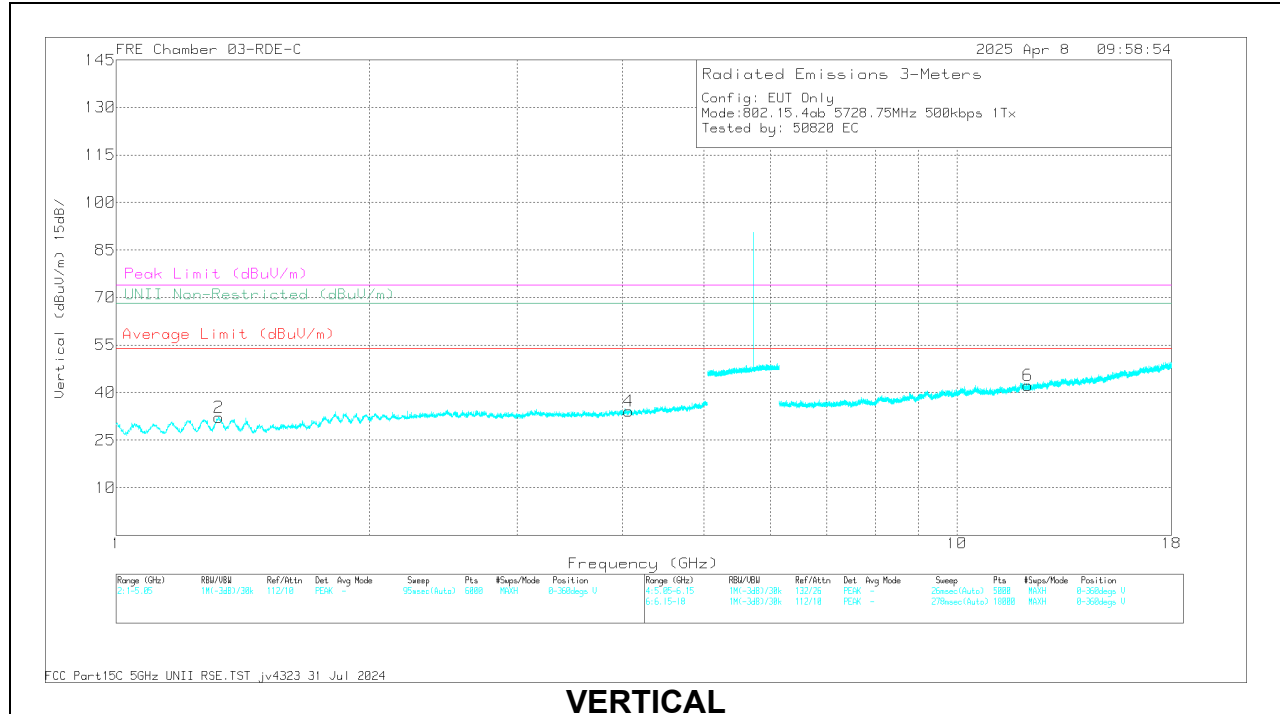
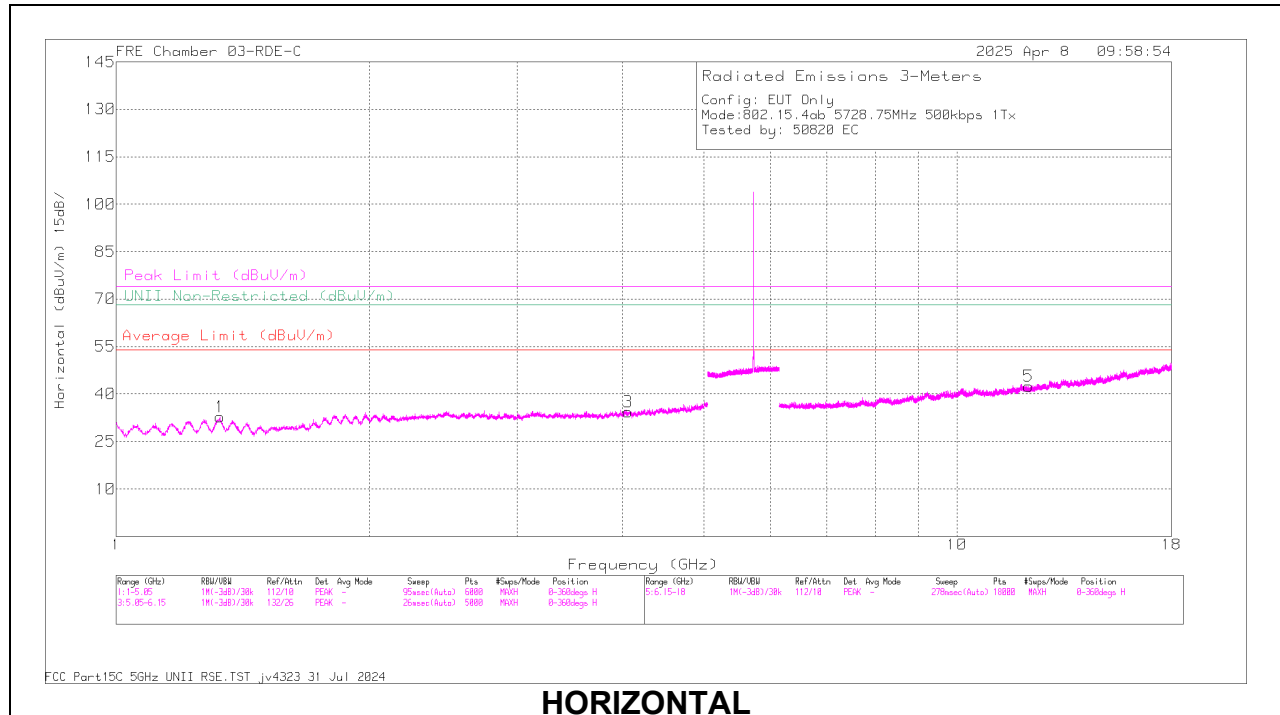


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	84797 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-50.74	Pk	35.1	11.8	0	-35.92	-39.76	27	-66.76	321	111	V
2	5.9906	-48.81	Pk	35.3	11.8	0	-35.77	-37.48	-27	-10.48	321	111	V

Pk - Peak detector

10.1.8. ANT 5, 500Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

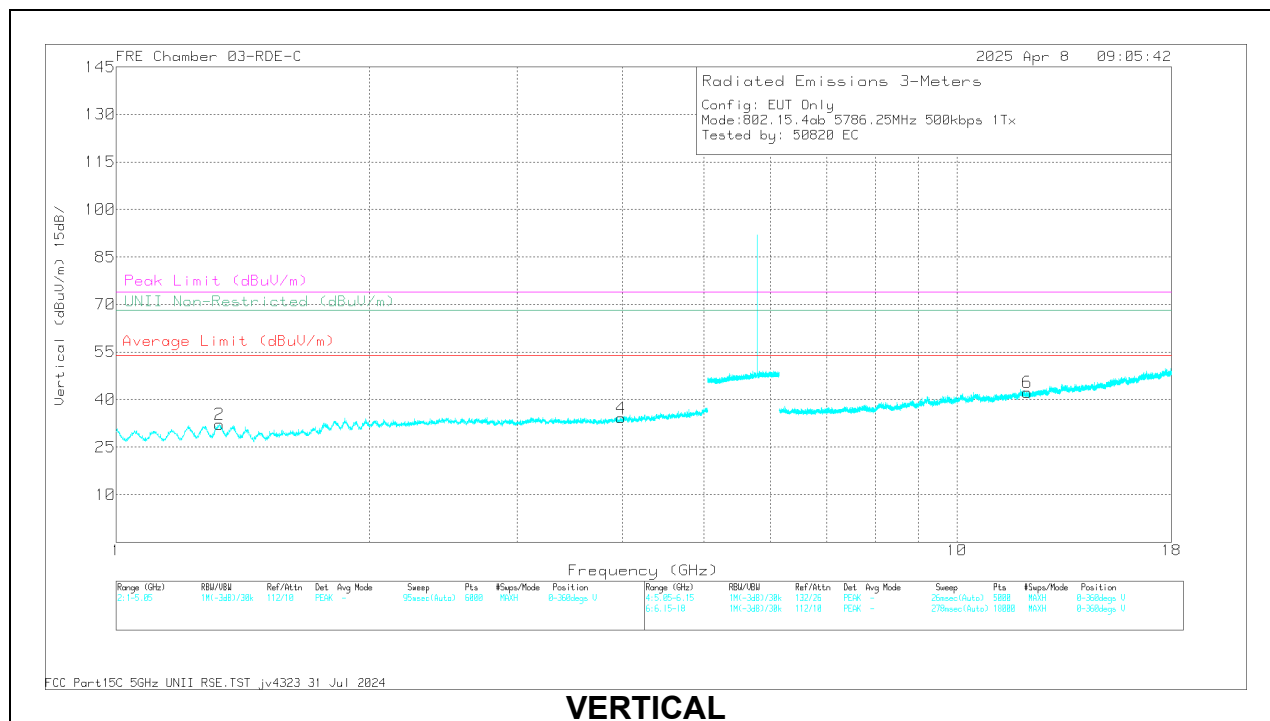
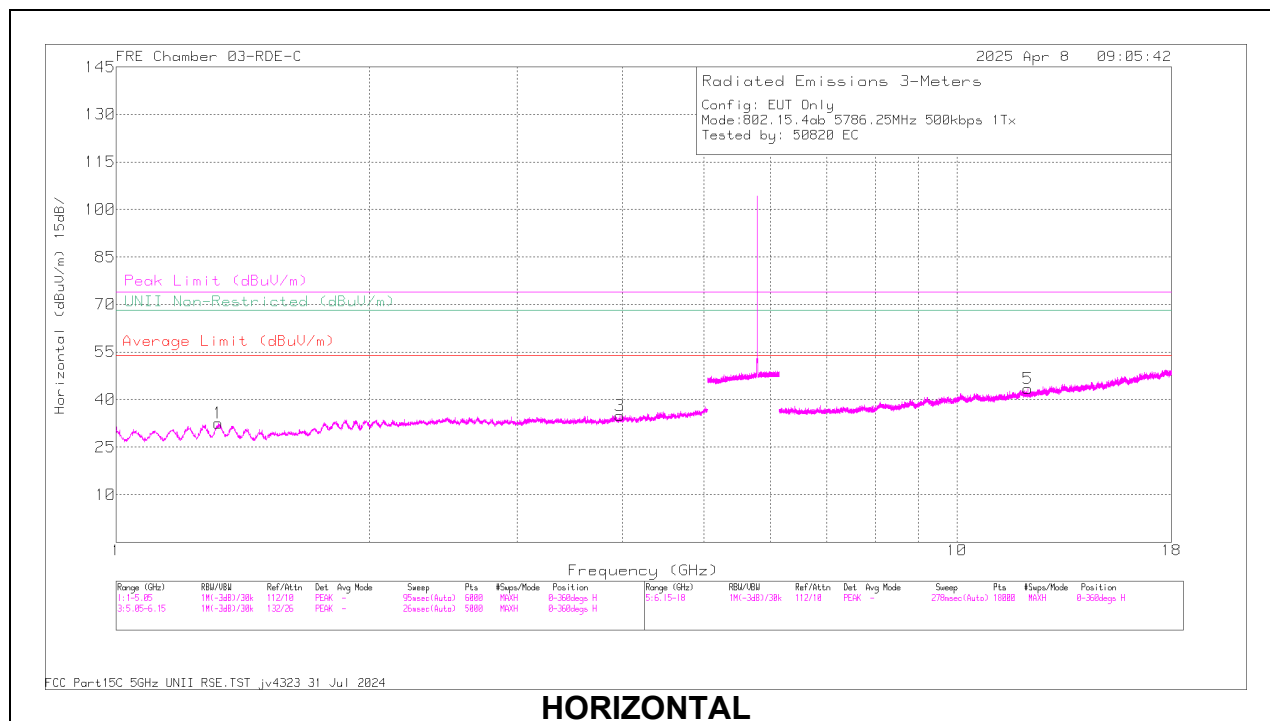
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.328636	60.88	PK-U	29.3	0	-47.8	42.38	-	-	74	-31.62	225	393	H
	* 1.32604	48.83	ADR	29.3	3.63	-47.8	33.96	54	-20.04	-	-	225	393	H
2	* 1.325315	60.86	PK-U	29.3	0	-47.8	42.36	-	-	74	-31.64	17	363	V
	* 1.325084	48.95	ADR	29.3	3.63	-47.8	34.08	54	-19.92	-	-	17	363	V
3	* 4.063687	56.9	PK-U	33.4	0	-46.17	44.13	-	-	74	-29.87	192	351	H
	* 4.06339	44.92	ADR	33.4	3.63	-46.14	35.81	54	-18.19	-	-	192	351	H
4	* 4.066062	57.15	PK-U	33.4	0	-46.1	44.45	-	-	74	-29.55	7	388	V
	* 4.06625	45.01	ADR	33.4	3.63	-46.1	35.94	54	-18.06	-	-	7	388	V
5	* 12.168413	56.38	PK-U	39	0	-43.3	52.08	-	-	74	-21.92	20	264	H
	* 12.165089	44.26	ADR	39	3.63	-43.3	43.59	54	-10.41	-	-	20	264	H
6	* 12.140342	56.33	PK-U	39	0	-43.3	52.03	-	-	74	-21.97	335	352	V
	* 12.140573	44.35	ADR	39	3.63	-43.3	43.68	54	-10.32	-	-	335	352	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

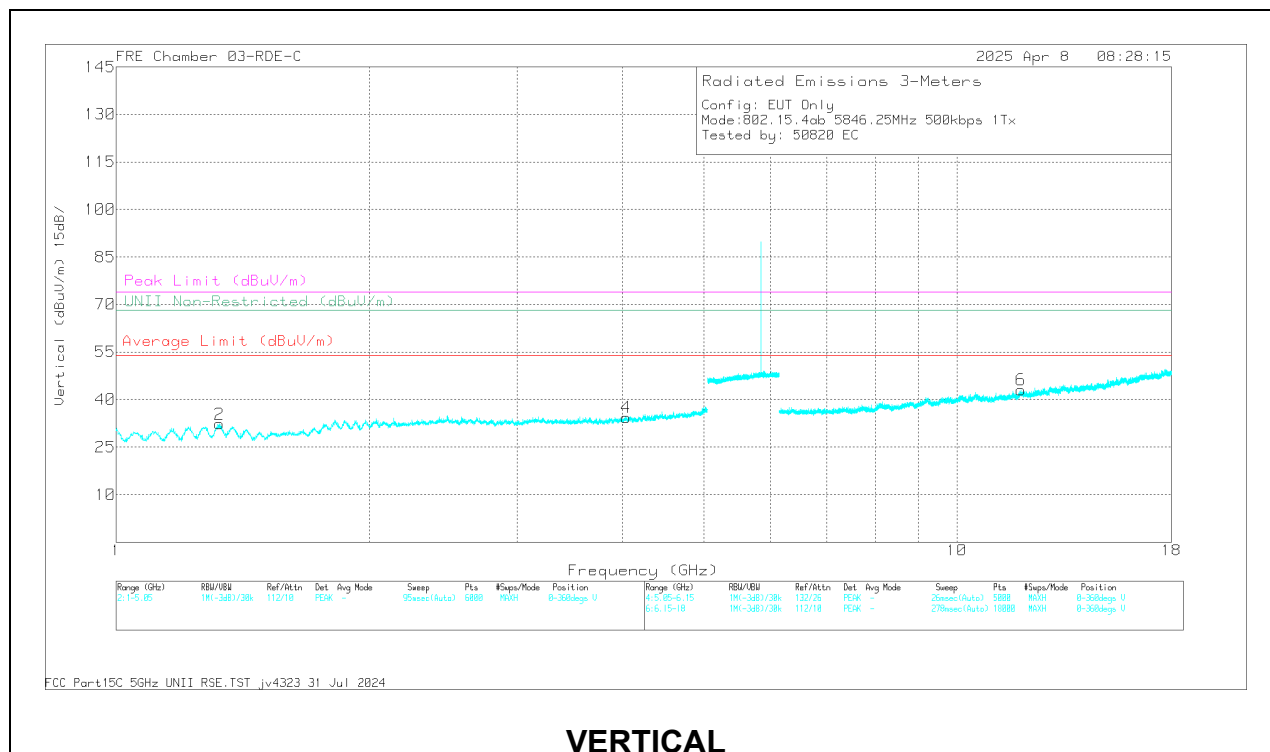
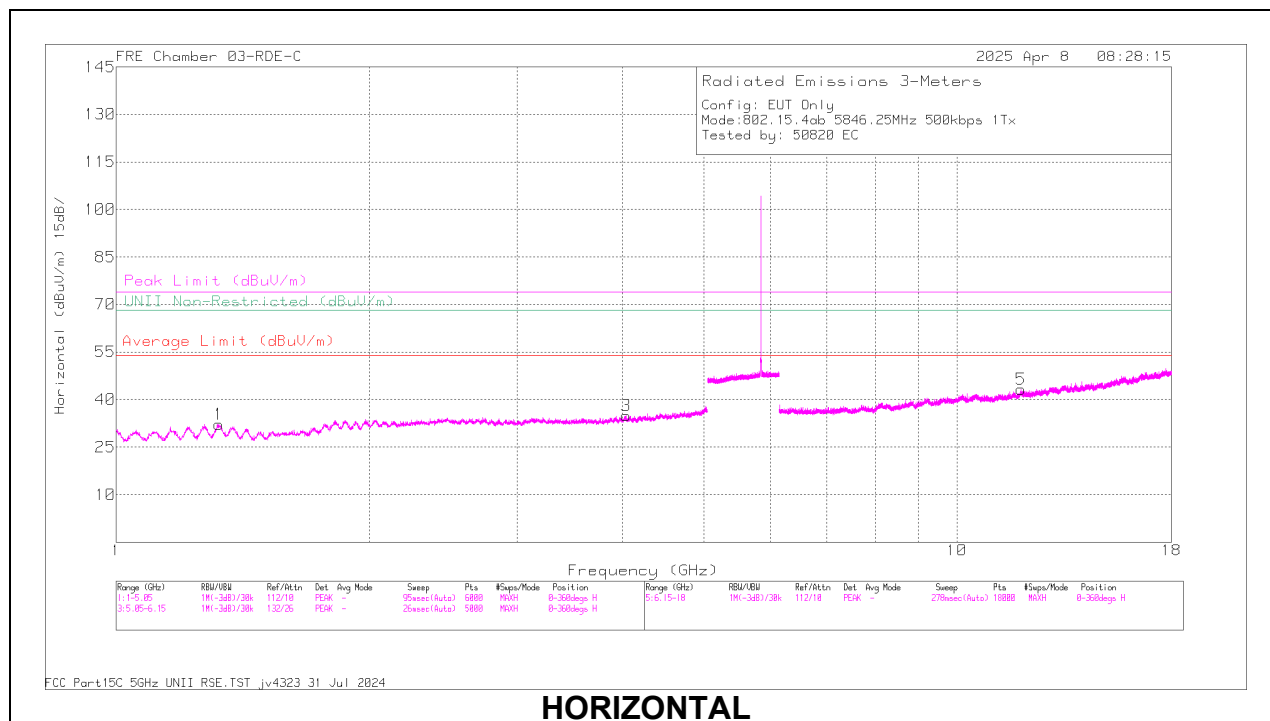
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.322344	60.86	PK-U	29.3	0	-47.8	42.36	-	-	74	-31.64	107	378	H
	* 1.322699	48.91	ADR	29.3	3.63	-47.8	34.04	54	-19.96	-	-	107	378	H
2	* 1.326445	60.91	PK-U	29.3	0	-47.8	42.41	-	-	74	-31.59	52	104	V
	* 1.32623	48.79	ADR	29.3	3.63	-47.8	33.92	54	-20.08	-	-	52	104	V
3	* 3.975649	57	PK-U	33.4	0	-45.8	44.6	-	-	74	-29.4	276	306	H
	* 3.975936	44.58	ADR	33.4	3.63	-45.8	35.81	54	-18.19	-	-	276	306	H
4	* 3.983682	56.68	PK-U	33.4	0	-45.9	44.18	-	-	74	-29.82	36	347	V
	* 3.982918	44.86	ADR	33.4	3.63	-45.9	35.99	54	-18.01	-	-	36	347	V
5	* 12.139721	56.64	PK-U	39	0	-43.3	52.34	-	-	74	-21.66	343	123	H
	* 12.138714	44.4	ADR	39	3.63	-43.3	43.73	54	-10.27	-	-	343	123	H
6	* 12.136381	56.72	PK-U	38.9	0	-43.3	52.32	-	-	74	-21.68	178	357	V
	* 12.134147	44.54	ADR	38.9	3.63	-43.3	43.77	54	-10.23	-	-	178	357	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

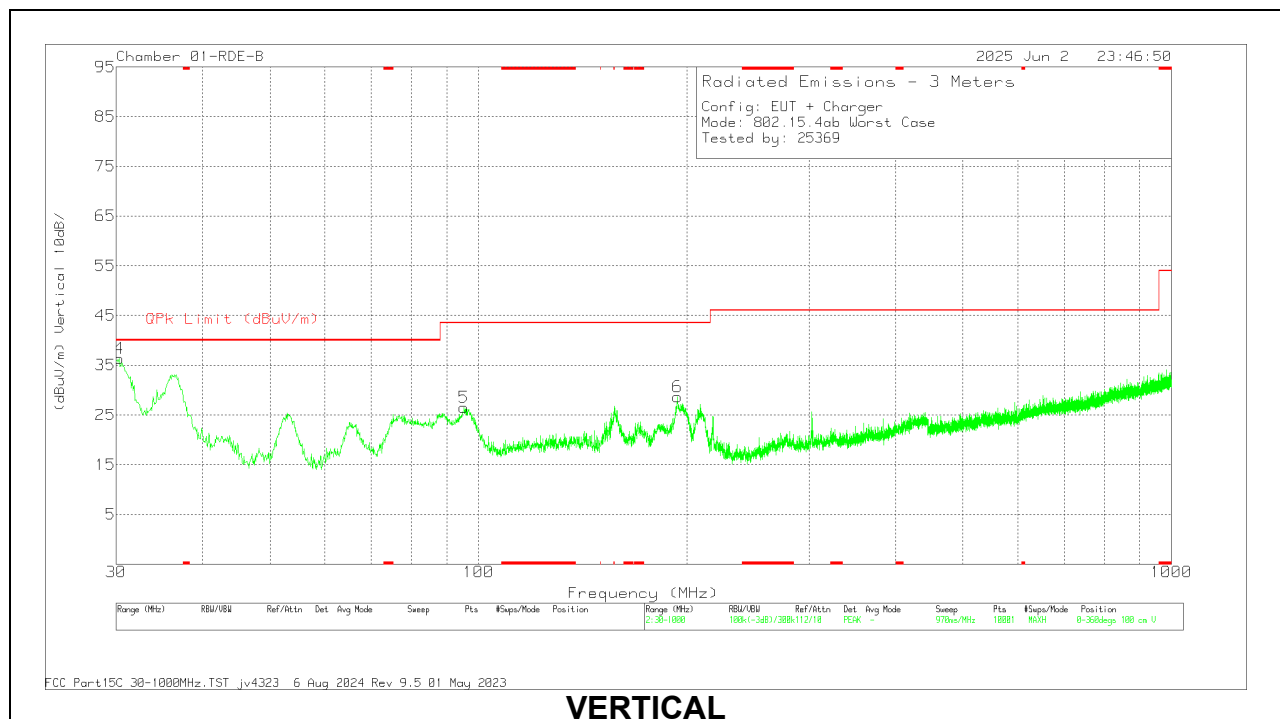
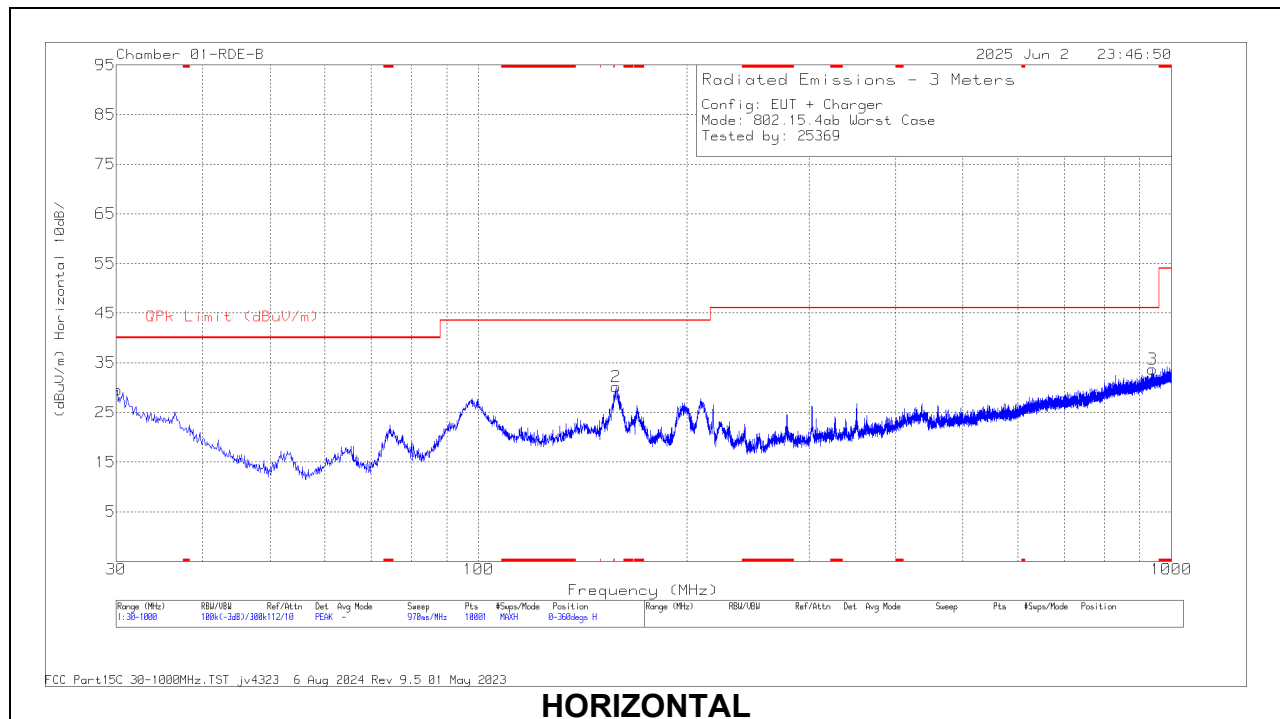
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.326323	61.12	PK-U	29.3	0	-47.8	42.62	-	-	74	-31.38	215	145	H
	* 1.324373	48.83	ADR	29.3	3.63	-47.8	33.96	54	-20.04	-	-	215	145	H
2	* 1.325146	60.6	PK-U	29.3	0	-47.8	42.1	-	-	74	-31.9	356	219	V
	* 1.326353	49	ADR	29.3	3.63	-47.8	34.13	54	-19.87	-	-	356	219	V
3	* 4.040147	57.6	PK-U	33.4	0	-46.1	44.9	-	-	74	-29.1	3	358	H
	* 4.039385	45.32	ADR	33.4	3.63	-46.1	36.25	54	-17.75	-	-	3	358	H
4	* 4.039509	57.28	PK-U	33.4	0	-46.1	44.58	-	-	74	-29.42	123	185	V
	* 4.038482	45.25	ADR	33.4	3.63	-46.1	36.18	54	-17.82	-	-	123	185	V
5	* 11.913127	55.98	PK-U	38.8	0	-42.2	52.58	-	-	74	-21.42	203	250	H
	* 11.913796	44.08	ADR	38.8	3.63	-42.2	44.31	54	-9.69	-	-	203	250	H
6	* 11.919573	56.04	PK-U	38.8	0	-42.36	52.48	-	-	74	-21.52	286	316	V
	* 11.917046	43.95	ADR	38.8	3.63	-42.2	44.18	54	-9.82	-	-	286	316	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST CASE BELOW 1 GHz



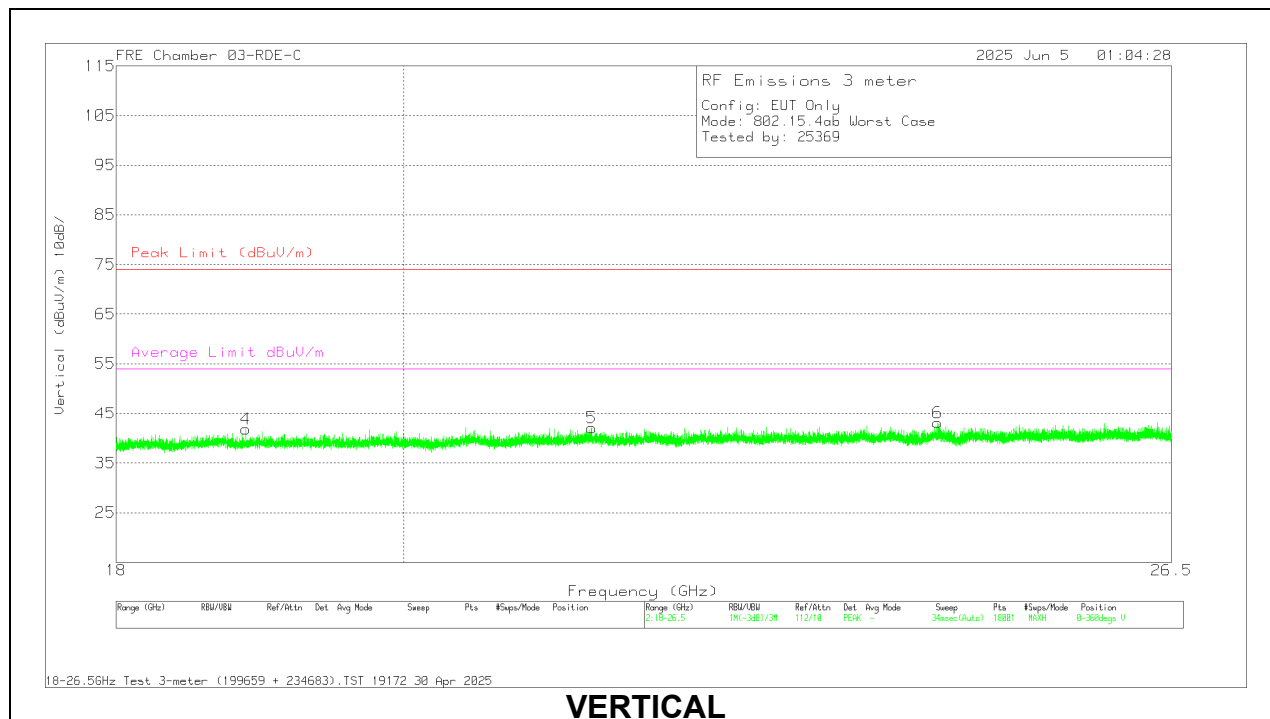
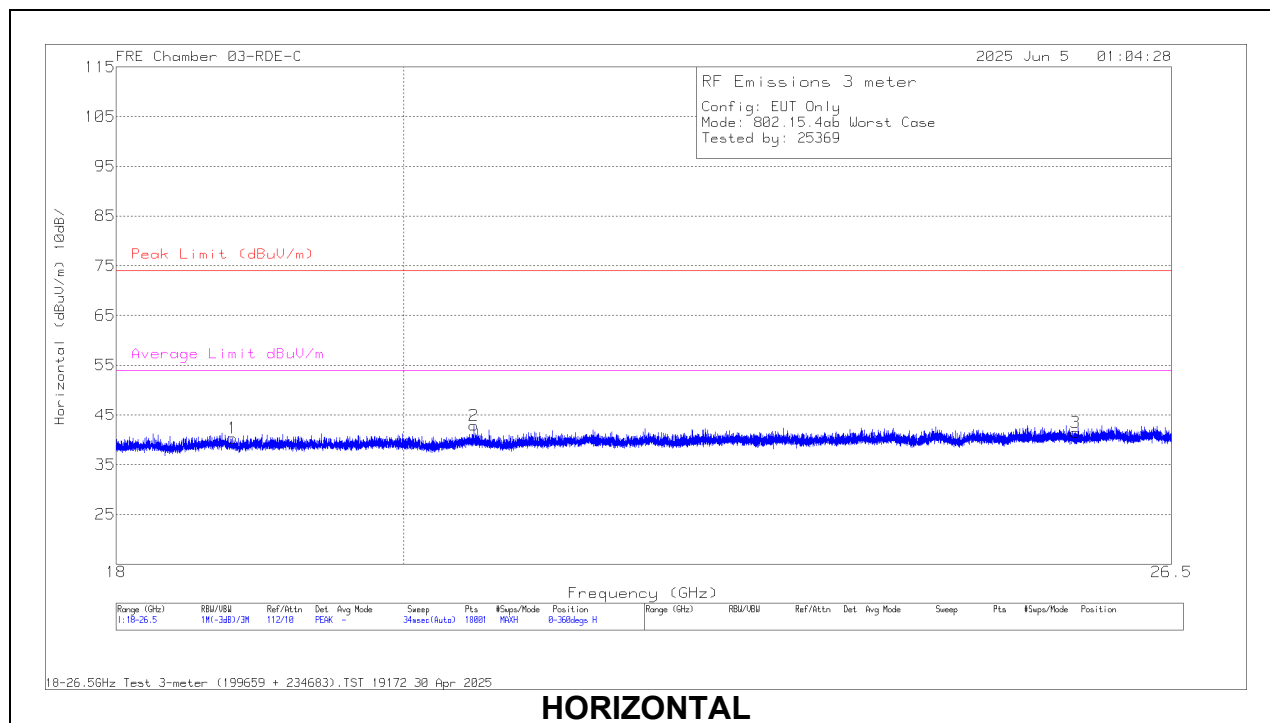
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	85150 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.097	33.79	Pk	27.2	-31.5	0	29.49	40	-10.51	0-360	299	H
4	30.291	40.77	Pk	27.1	-31.5	0	36.37	40	-3.63	0-360	100	V
	30.022	36.71	Qp	27.3	-31.5	0	32.51	40	-7.49	124	115	V
5	95.281	42.34	Pk	15	-30.8	0	26.54	43.52	-16.98	0-360	100	V
2	157.846	42.65	Pk	17.9	-30.4	0	30.15	43.52	-13.37	0-360	99	H
6	193.736	41.23	Pk	17.6	-30.2	0	28.63	43.52	-14.89	0-360	100	V
3	939.86	32.12	Pk	28.3	-26.7	0	33.72	46.02	-12.3	0-360	199	H

Pk - Peak detector

Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHz



18 – 26GHz DATA

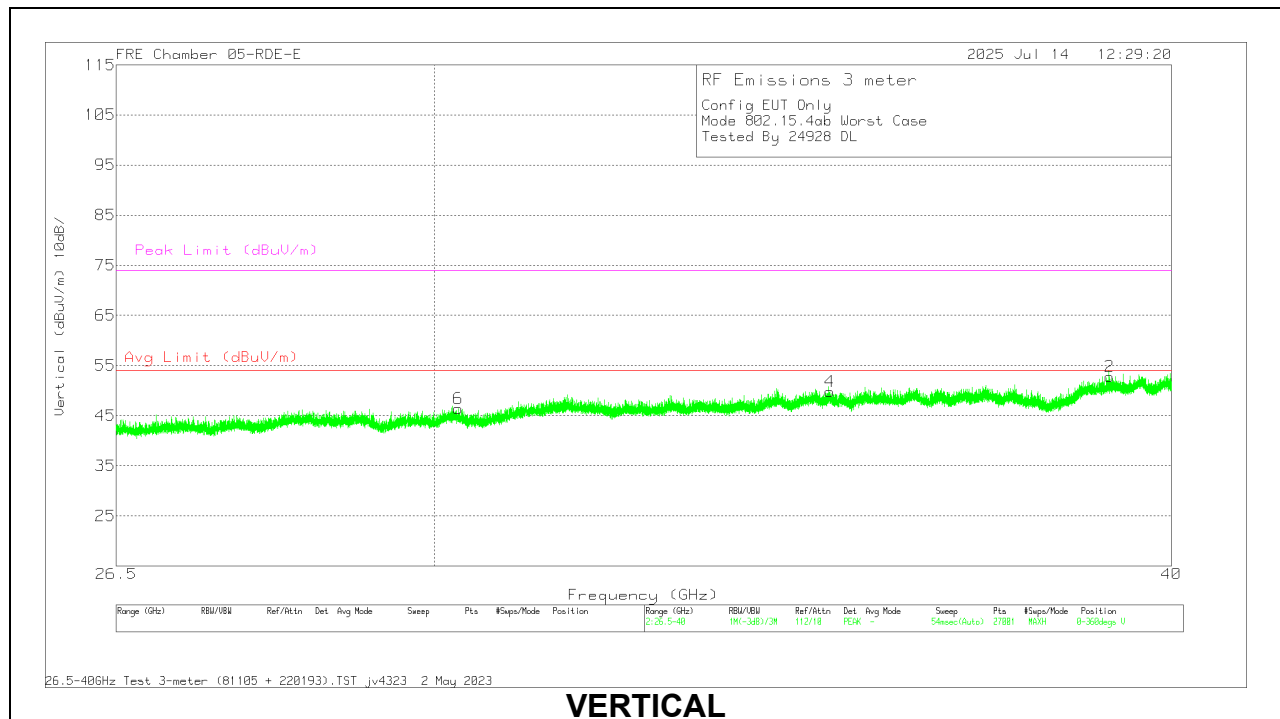
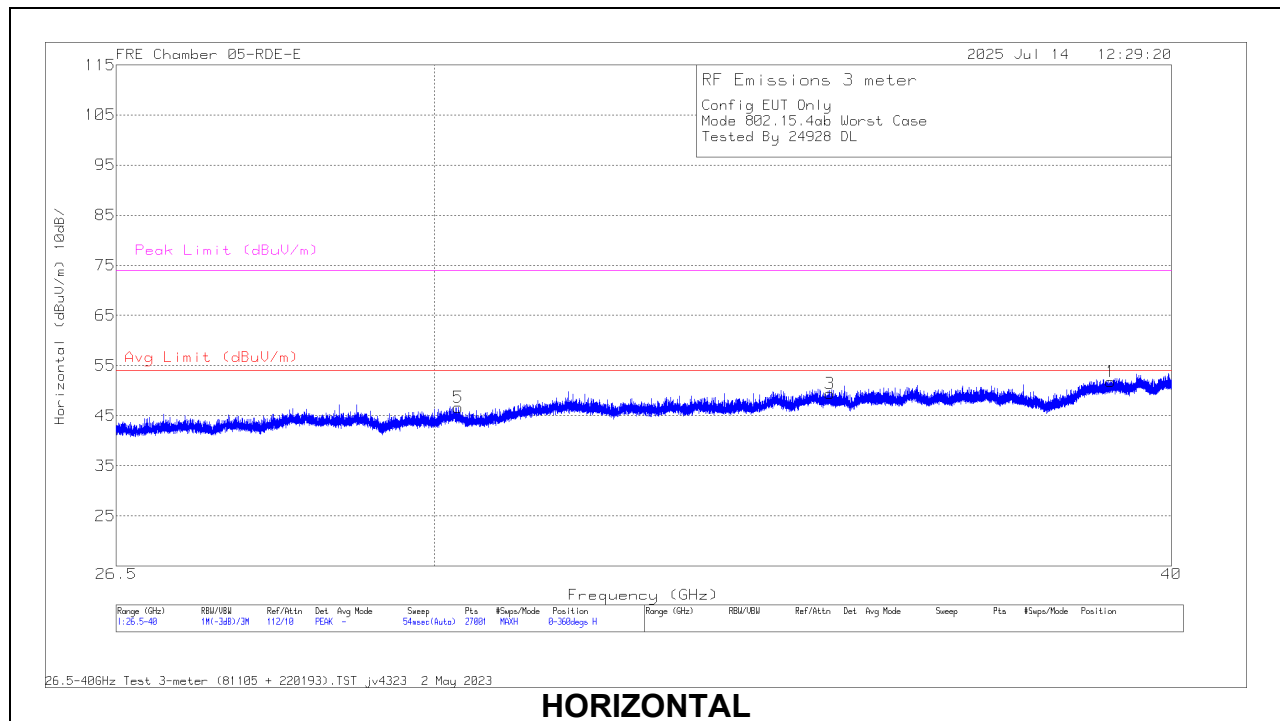
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	199659 ACF (dB/m)	234683 18-26.5GHz_Amp Assembly	Cable (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.786123	57.94	PK-U	32.2	-62.6	14	0	41.54	74	-32.46	-	-	360	199	H
1	* 18.785005	46.2	ADR	32.2	-62.6	14	3.63	33.43	-	-	54	-20.57	360	199	H
2	* 20.51978	56	PK-U	32.7	-60.9	14.6	0	42.4	74	-31.6	-	-	360	101	H
2	* 20.522085	44.32	ADR	32.7	-60.9	14.6	3.63	34.35	-	-	54	-19.65	360	101	H
4	* 18.87432	57.64	PK-U	32.3	-62.4	14	0	41.54	74	-32.46	-	-	360	101	V
4	* 18.876403	46.33	ADR	32.3	-62.4	14	3.63	33.89	-	-	54	-20.14	360	101	V
5	21.424734	56.07	PK-U	32.9	-61.5	15	0	42.47	74	-31.53	-	-	360	101	V
5	21.425214	44.52	ADR	32.9	-61.5	15	3.63	34.55	-	-	54	-19.45	360	101	V
6	24.324605	44.63	ADR	33.6	-62.2	16	3.63	35.66	-	-	54	-18.34	360	101	V
6	24.326703	56.28	PK-U	33.6	-62.3	16	0	43.58	74	-30.42	-	-	360	101	V
3	25.584784	54.1	PK-U	33.8	-61.9	16.5	0	42.5	74	-31.5	-	-	360	101	H
3	25.587264	42.6	ADR	33.8	-61.9	16.5	3.63	34.63	-	-	54	-19.37	360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.4. WORST CASE 26-40 GHz



26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81105 ACF (dB/m)	CBL/AMP	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 39.058	42.47	Pk	38.3	-64.2	35.2	51.77	74	-22.23	0-360	199	H
3	35.01	44.21	Pk	37.1	-65.5	33.6	49.41	74	-24.59	0-360	101	H
5	30.283	43.41	Pk	36.4	-63.5	30.4	46.71	74	-27.29	0-360	199	H
2	* 39.0475	43.5	Pk	38.3	-64.2	35.2	52.8	74	-21.2	0-360	101	V
4	35.007	44.63	Pk	37.1	-65.5	33.6	49.83	74	-24.17	0-360	199	V
6	30.2805	43.12	Pk	36.4	-63.5	30.4	46.42	74	-27.58	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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

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.

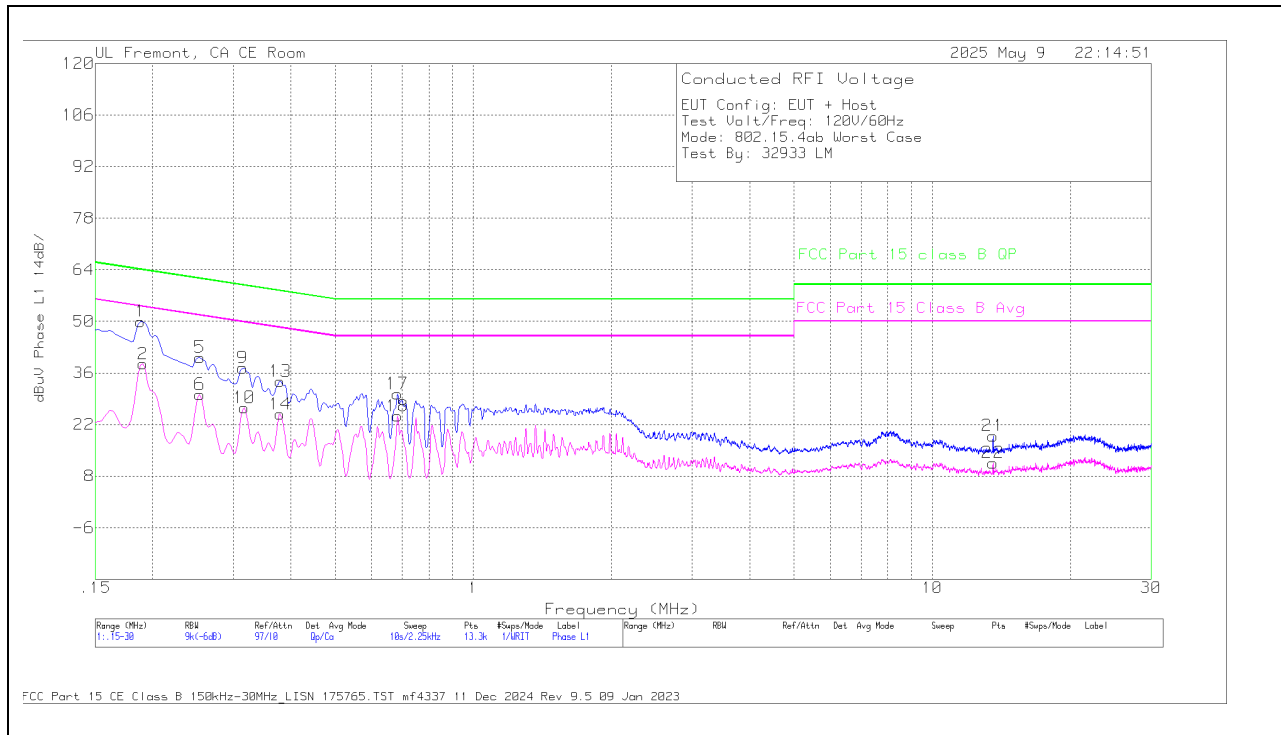
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line WITH LAPTOP

LINE 1 RESULTS

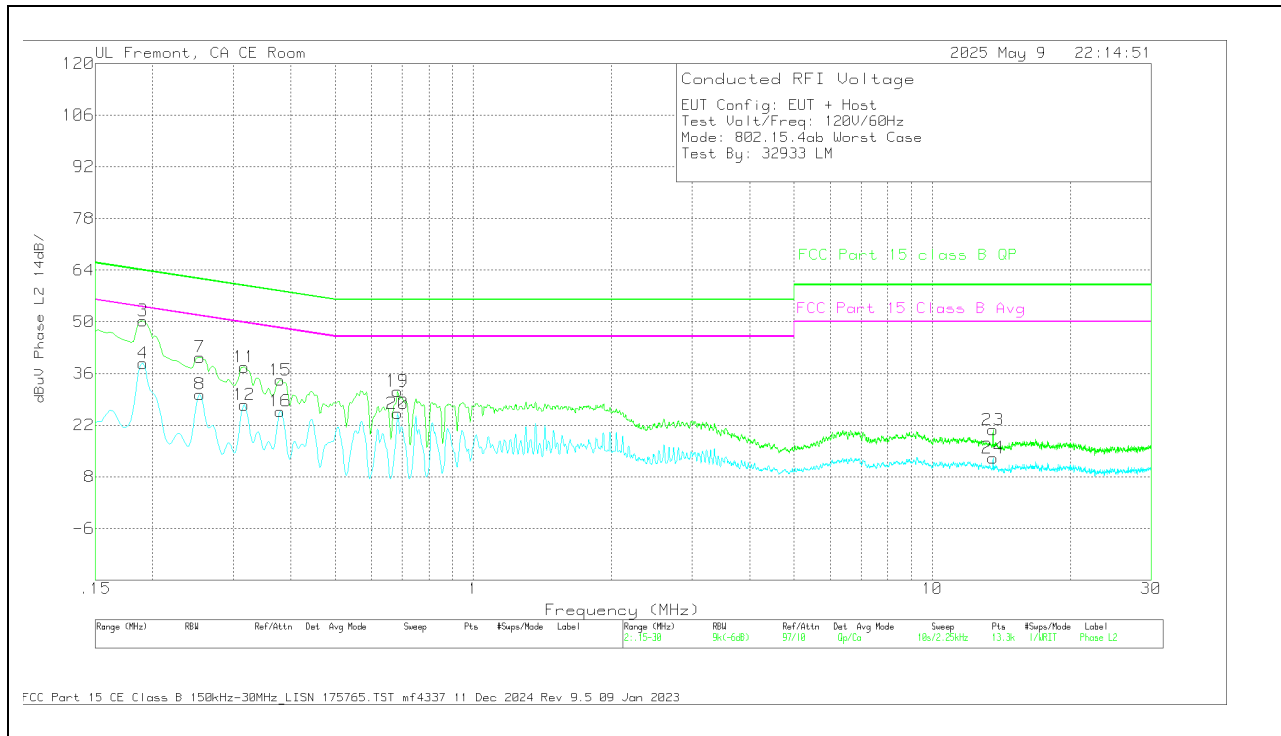


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1905	19.73	Ca	.2	.1	8.4	10	38.43	54.01	-15.58	-	-
6	.2535	12.07	Ca	-.1	0	8.2	10	30.17	51.64	-21.47	-	-
10	.3165	8.55	Ca	-.1	0	8.1	10	26.55	49.8	-23.25	-	-
14	.3795	7.03	Ca	-.5	0	8.3	10	24.83	48.29	-23.46	-	-
18	.6833	5.77	Ca	.2	0	8.3	10	24.27	46	-21.73	-	-
22	13.56	-6.9	Ca	.2	.1	8.2	10	11.6	50	-38.4	-	-
1	.1883	31.28	Qp	.2	.1	8.4	10	49.98	-	-	64.11	-14.13
5	.2535	22.1	Qp	-.1	0	8.2	10	40.2	-	-	61.64	-21.44
9	.3143	19.37	Qp	-.1	0	8.1	10	37.37	-	-	59.86	-22.49
13	.3795	15.91	Qp	-.5	0	8.3	10	33.71	-	-	58.29	-24.58
17	.6833	11.83	Qp	.2	0	8.3	10	30.33	-	-	56	-25.67
21	13.56	.43	Qp	.2	.1	8.2	10	18.93	-	-	60	-41.07

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



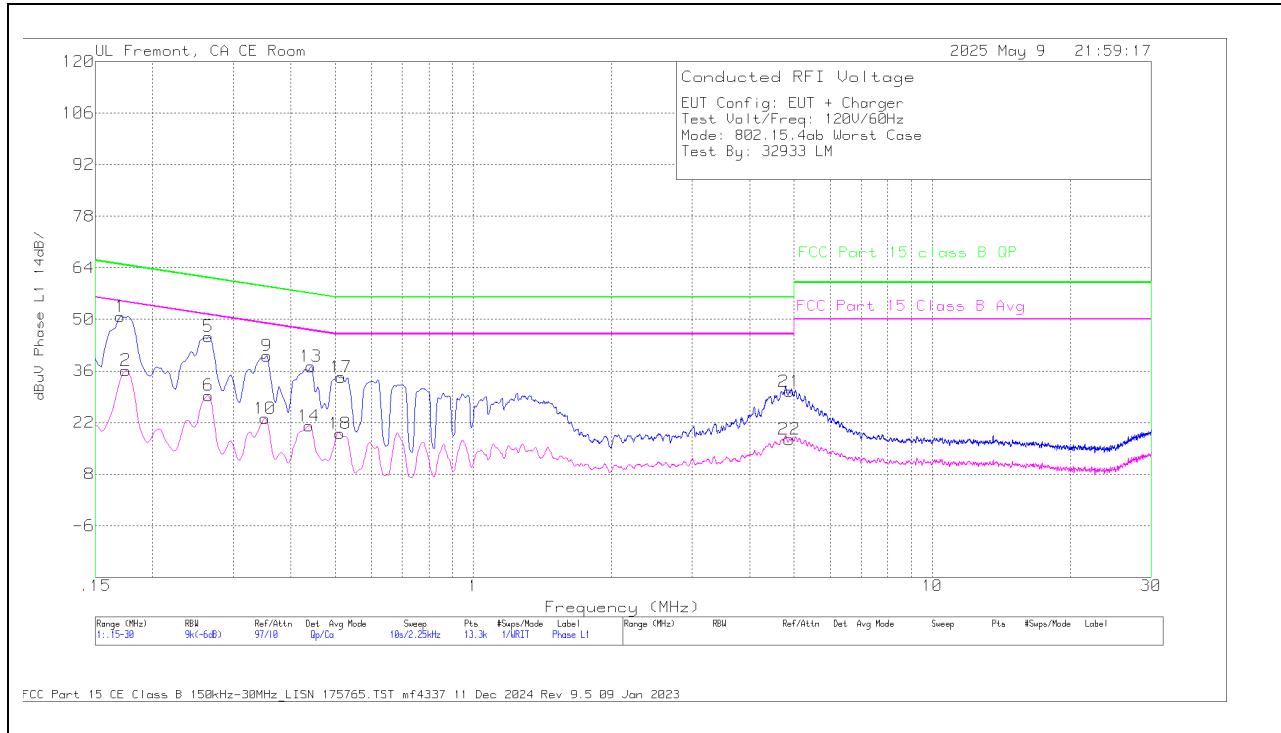
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
4	.1905	20.14	Ca	.2	0	8.4	10	38.74	54.01	-15.27	-	-
8	.2535	12.27	Ca	-.1	0	8.2	10	30.37	51.64	-21.27	-	-
12	.3165	9.49	Ca	-.1	0	8.1	10	27.49	49.8	-22.31	-	-
16	.3795	7.96	Ca	-.5	0	8.3	10	25.76	48.29	-22.53	-	-
20	.6833	6.67	Ca	.2	0	8.3	10	25.17	46	-20.83	-	-
24	13.56	-5.38	Ca	.2	.1	8.2	10	13.12	50	-36.88	-	-
3	.1905	31.67	Qp	.2	0	8.4	10	50.27	-	-	64.01	-13.74
7	.2535	22.32	Qp	-.1	0	8.2	10	40.42	-	-	61.64	-21.22
11	.3165	19.73	Qp	-.1	0	8.1	10	37.73	-	-	59.8	-22.07
15	.3795	16.41	Qp	-.5	0	8.3	10	34.21	-	-	58.29	-24.08
19	.6833	12.7	Qp	.2	0	8.3	10	31.2	-	-	56	-24.8
23	13.56	2.23	Qp	.2	.1	8.2	10	20.73	-	-	60	-39.27

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line WITH AC/DC Adapter

LINE 1 RESULTS

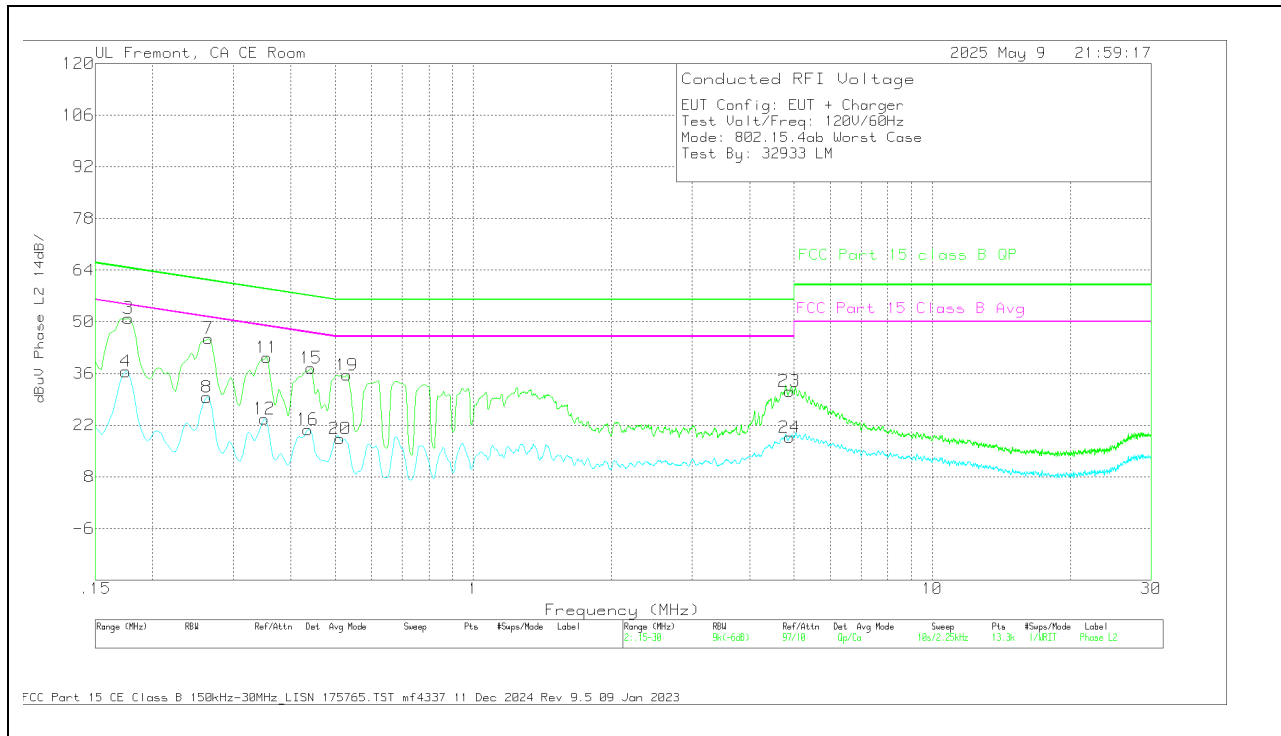


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1748	17.22	Ca	.3	.1	8.5	10	36.12	54.73	-18.61	-	-
6	.2648	11.34	Ca	-.1	0	8.1	10	29.34	51.28	-21.94	-	-
10	.3514	5.1	Ca	-.4	0	8.4	10	23.1	48.93	-25.83	-	-
14	.438	2.23	Ca	0	0	8.8	10	21.03	47.1	-26.07	-	-
18	.5123	1.32	Ca	-.2	0	7.9	10	19.02	46	-26.98	-	-
22	4.8795	-.57	Ca	0	0	8	10	17.43	46	-28.57	-	-
1	.1703	31.86	Qp	.3	.1	8.5	10	50.76	-	-	64.95	-14.19
5	.2648	27.31	Qp	-.1	0	8.1	10	45.31	-	-	61.28	-15.97
9	.3548	22.11	Qp	-.4	0	8.4	10	40.11	-	-	58.85	-18.74
13	.4425	18.3	Qp	.1	0	8.8	10	37.2	-	-	57.01	-19.81
17	.5145	16.73	Qp	-.2	0	7.8	10	34.33	-	-	56	-21.67
21	4.8818	12.31	Qp	.1	0	8	10	30.41	-	-	56	-25.59

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



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	.1748	17.74	Ca	.3	0	8.5	10	36.54	54.73	-18.19	-	-
8	.2625	11.45	Ca	-.1	0	8.2	10	29.55	51.35	-21.8	-	-
12	.3503	5.68	Ca	-.4	0	8.4	10	23.68	48.96	-25.28	-	-
16	.4358	2.06	Ca	0	0	8.7	10	20.76	47.14	-26.38	-	-
20	.5123	.61	Ca	-.2	0	7.9	10	18.31	46	-27.69	-	-
24	4.8885	.55	Ca	.1	0	8	10	18.65	46	-27.35	-	-
3	.177	32.27	Qp	.3	0	8.4	10	50.97	-	-	64.63	-13.66
7	.2648	27.52	Qp	-.1	0	8.1	10	45.52	-	-	61.28	-15.76
11	.3548	22.34	Qp	-.4	0	8.4	10	40.34	-	-	58.85	-18.51
15	.4425	18.56	Qp	.1	0	8.8	10	37.46	-	-	57.01	-19.55
19	.5303	18.05	Qp	-.3	0	7.8	10	35.55	-	-	56	-20.45
23	4.8806	13.2	Qp	0	0	8	10	31.2	-	-	56	-24.8

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15496249-EP1 for setup photos.

13. APPENDIX A – SPOT CHECK EVALUATION

13.1. 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	

The spot check plan, approved by the FCC inquiry, 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.

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3525

A3525 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3525	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID : BCG-E8960A IC : 579C-E8960A			
NII / 802.15.4ab	5725 - 5825 UNII 3	SISO ANT 5 High Power	Ave. Power (dBm)	Fundamental	High	5.84625	20.96	20.89	-0.07	-9.04	Note 1
		SISO ANT 5 Low Power	Radiated Bandedge (dBm)	Low CH Bandedge	Low	5.64595	-38.02	-39.66	-1.64	-11.02	Note 1
		SISO ANT 5 High Power	Radiated Bandedge (dBm)	High CH Bandedge	High	5.958525	-35.73	-37.56	-1.83	-8.73	Note 1
		SISO ANT 5 Low Power	RSE (dBuV/m) Ave.	1 to 18	High	11.913796	44.31	43.33	-0.98	-9.69	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.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3526

A3526 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3526	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID : BCG-E8961A IC : 579C-E8961A			
NII / 802.15.4ab	5725 - 5825 UNII 3	SISO ANT 5 High Power	Ave. Power (dBm)	Fundamental	High	5.84625	20.96	20.86	-0.10	-9.04	Note 1
		SISO ANT 5 Low Power	Radiated Bandedge (dBm)	Low CH Bandedge	Low	5.64595	-38.02	-38.17	-0.15	-11.02	Note 1
		SISO ANT 5 High Power	Radiated Bandedge (dBm)	High CH Bandedge	High	5.958525	-35.73	-36.12	-0.39	-8.73	Note 1
		SISO ANT 5 Low Power	RSE (dBuV/m) Ave.	1 to 18	High	11.913796	44.31	43.30	-1.01	-9.69	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.

13.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3527

A3527SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3527	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID : BCG-E8962A IC : 579C-E8962A			
NII / 802.15.4ab	5725 - 5825 UNII 3	SISO ANT 5 High Power	Ave. Power (dBm)	Fundamental	High	5.84625	20.96	20.88	-0.08	-9.04	Note 1
		SISO ANT 5 Low Power	Radiated Bandedge (dBm)	Low CH Bandedge	Low	5.64595	-38.02	-39.01	-0.99	-11.02	Note 1
		SISO ANT 5 High Power	Radiated Bandedge (dBm)	High CH Bandedge	High	5.958525	-35.73	-37.50	-1.77	-8.73	Note 1
		SISO ANT 5 Low Power	RSE (dBuV/m) Ave.	1 to 18	High	11.913796	44.31	40.71	-3.60	-9.69	Note 2

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.