

TEST REPORT

Report Number: 14982479-E6V2

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

Model : A3084 (Parent Model)
A3295, A3296, A3297 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8684 (Parent Model)
BCG-E8685, BCG-E8686, BCG-E8687 (Variant Models)

IC : 579C-E8684A (Parent Model)
579C-E8685A, 579C-E8686A, 579C-E8687A (Variant Models)

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:
2024/08/02

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024/07/31	Initial Issue	Tony Li
V2	2024/08/02	Addressed TCB Feedback on Section 10 & update cover page	Tony Li

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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: A3084 (Parent Model)
A3295, A3296, A3297 (Variant Models)

BRAND: APPLE

SERIAL NUMBER: CYHJ7CN4HD, DP4Q0WG2LX

SAMPLE RECEIPT DATE: 2024/02/26

DATE TESTED: 2024/02/26 to 2024/07/27

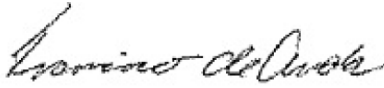
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies
ISED RSS-247 Issue 3	Complies
ISED RSS-GEN Issue 5 + A1 + A2	Complies

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 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. 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:



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

Prepared By:



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

2. TEST RESULT SUMMARY

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:

- FCC 15.407
- FCC CFR 47 Part 15
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- ANSI C63.10-2013
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 3.
- KDB 414788 D01 Radiated Test Site v01r01

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
Power Spectral Density	2.466
Time Domain Measurements Using SA	3.39
RF Power Measurement Direct Method Using Power Meter	0.450 (Peak), 1.3 (Ave)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.2%
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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 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 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 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) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8GHz Band 1TX, high power			
5728.75 – 5846.25	802.15.4ab	18.98	79.07
5.8GHz Band 1TX Low Power			
5728.75 – 5846.25	802.15.4ab	11.99	15.81

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	0.30	-0.40

The radio utilizes SMA Cable loss: 2.85 dB.

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

Note ANT 6=Antenna 6, ANT5=Antenna 5

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 22.1.93.334.

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 (ANT 0) and Ant 5 (ANT 1). It was determined that Y (Landscape) orientation was the worst-case orientation for Ant 6 and 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 2, 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 the 2.4GHz WIFI was investigated, and no noticeable emission was found.

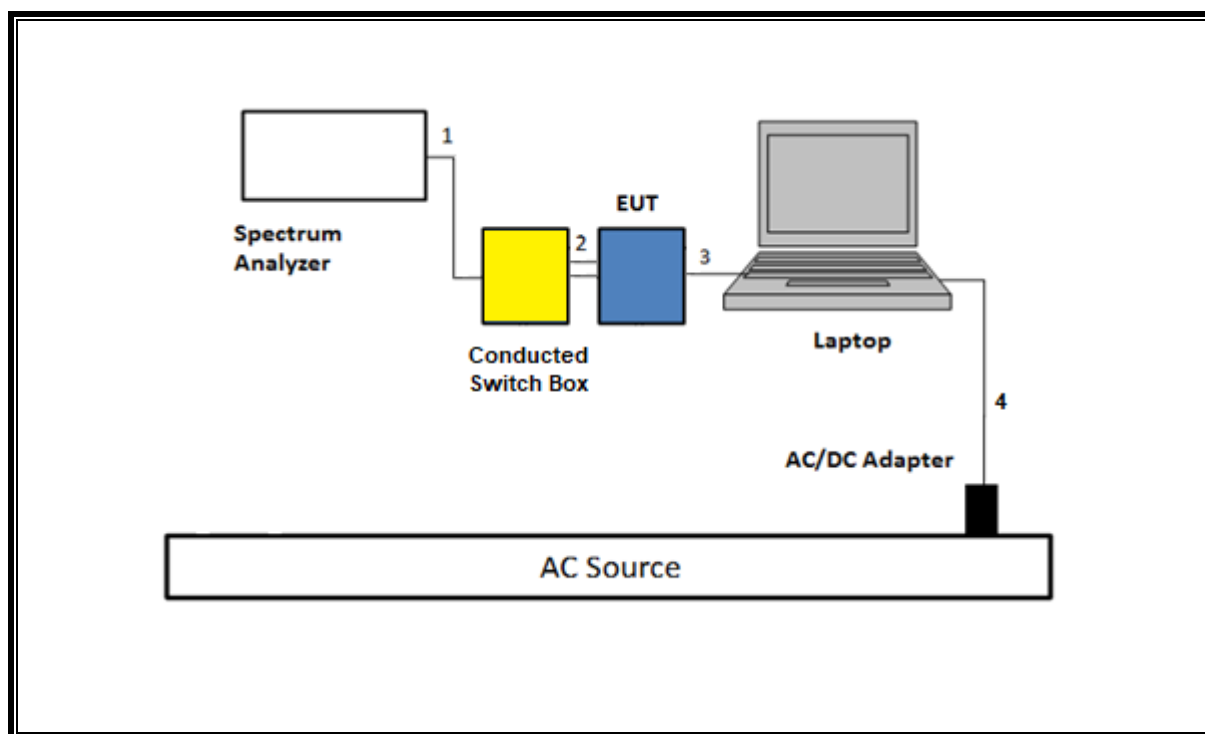
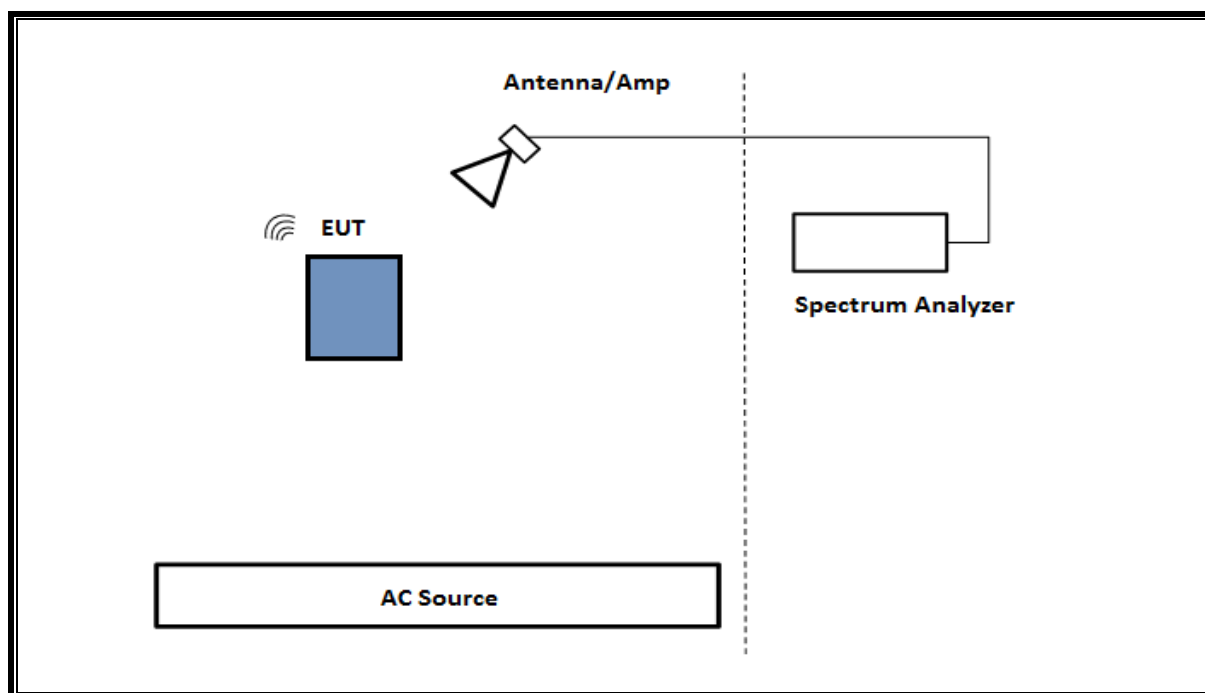
For radiated bandedge and emissions spurious, 500Kbps is set as the worst-case data rates for final test

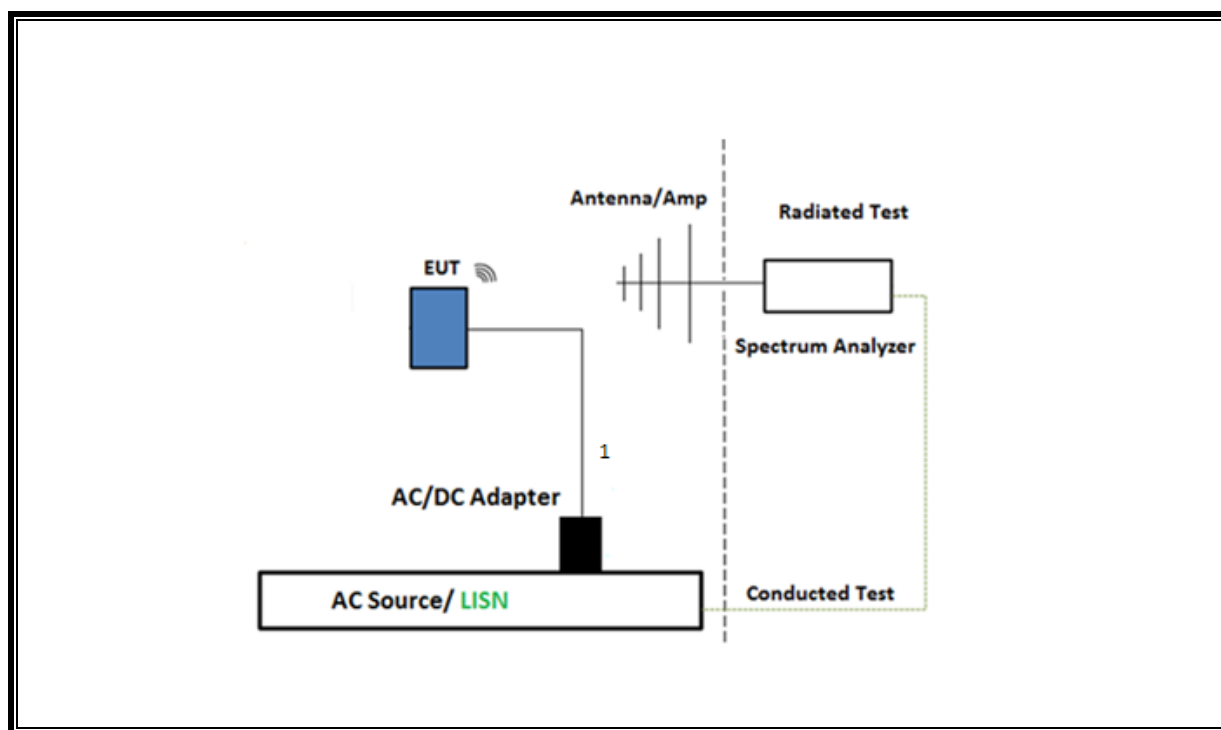
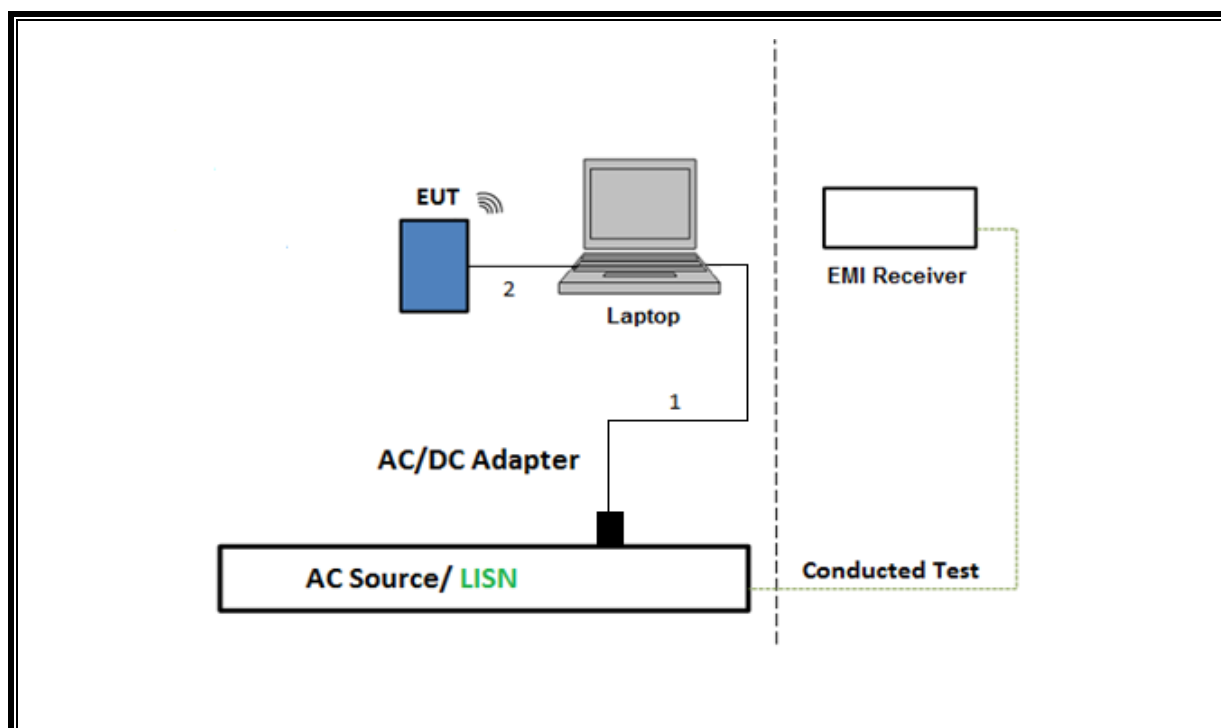
6.6. DESCRIPTION OF TEST SETUP

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
Conducted Switch Box		UL	n/a	208281		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	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	AC	1	AC	Un-shielded	2	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	AC/DC adapter
2	USB-C	1	USB-C	Shielded	1	DC/DATA

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 (1 to 40GHz)**

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 C63.10-2013, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2013 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90719	2025/01/31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90389	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2025/02/02
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2025/01/31
*Conducted Switch Box	N/A	CSB	208281	2024/04/30
Conducted Switch Box	N/A	CSB	208281	2025/05/08
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226673	2025/01/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201500	2025/02/28
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231874	2024/08/30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	230299	2025/01/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201501	2024/11/30
RF Filter Box, 1-18GHz, 17 Port.	UL-FR1	RATS 2	226781	2025/04/30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200896	2025/04/24
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025/02/28
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226780	2025/04/30
*Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	85151	2024/04/30
Link File, @3m, 9kHz-1000MHz Hybrid Path Loss	UL-FR1	Port 0 Factors	232001	2025/02/28
*Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172353	2024/06/30
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	171583	2025/03/31
*Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172367	2024/06/30
AMP26G40-65	AMPLICAL	AMP26G40-65	172346	2025/03/14
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170014	2024/08/31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170016	2024/08/31
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178557	Verified Before Use
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178558	Verified Before Use

Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	2025/02/28
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250- 25-2-01-480V	175765	2025/01/31
Transient Limiter	TE	TBFL1	207996	2024/08/31
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, 2023, May 1	
Conducted Software	UL	UL EMC	2020.8.16	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, 2023, Mar 3	

*Testing is completed before equipment expiration date.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

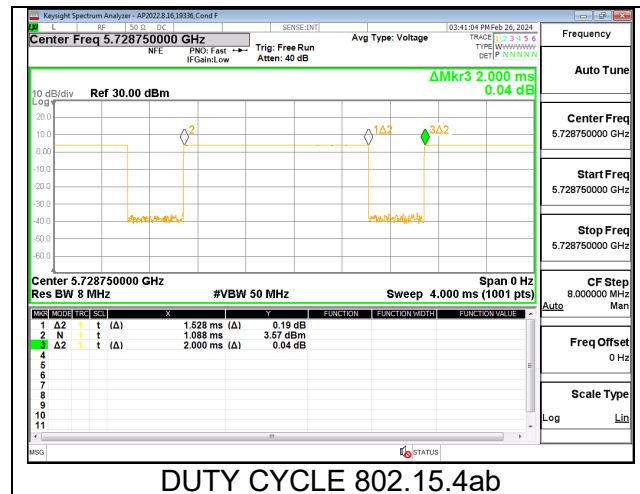
PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.15.4ab						
5728.75 MHz Index 2	1.528	2.000	0.764	76.40%	1.17	0.654

DUTY CYCLE PLOTS



9.2. 99%- AND 26-dB BANDWIDTH

LIMITS

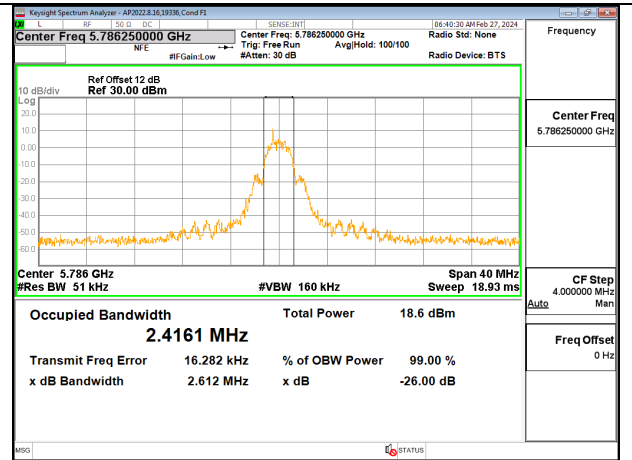
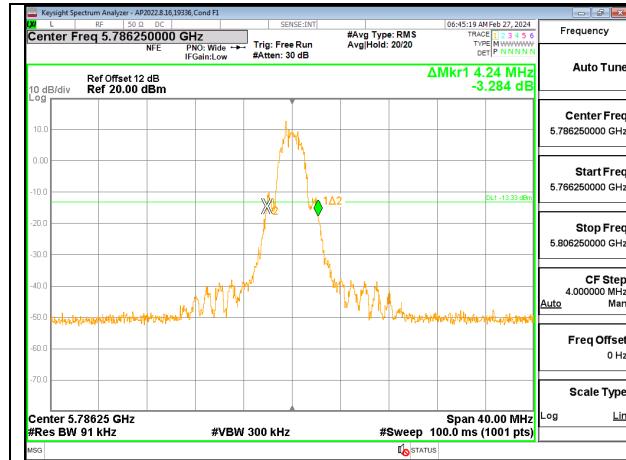
None; for reporting purposes only.

RESULTS

Only High-Power mode results are reported, it covers all Low-Power modes. Only Mid channel plots are reported to show setting parameter complies with testing method/procedure.

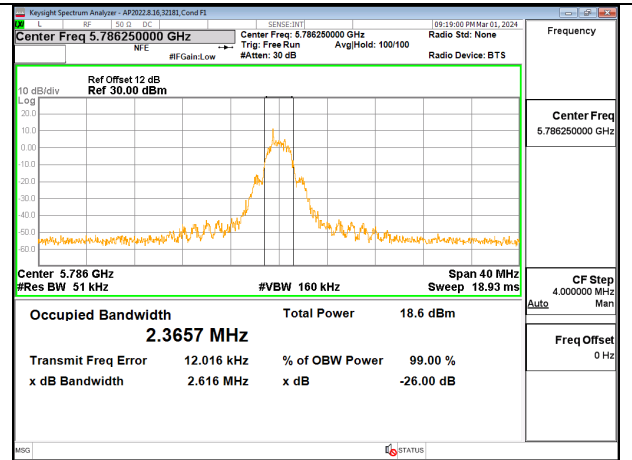
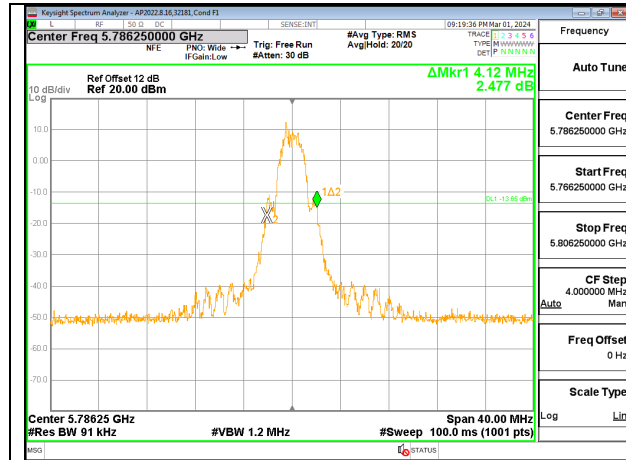
1TX Antenna 6 MODE

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5728.75	4.120	2.3632
Mid	5786.25	4.240	2.4161
High	5846.25	4.200	2.4201



1TX Antenna 5 MODE

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5728.75	4.120	2.3749
Mid	5786.25	4.120	2.3657
High	5846.25	4.120	2.3887



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.

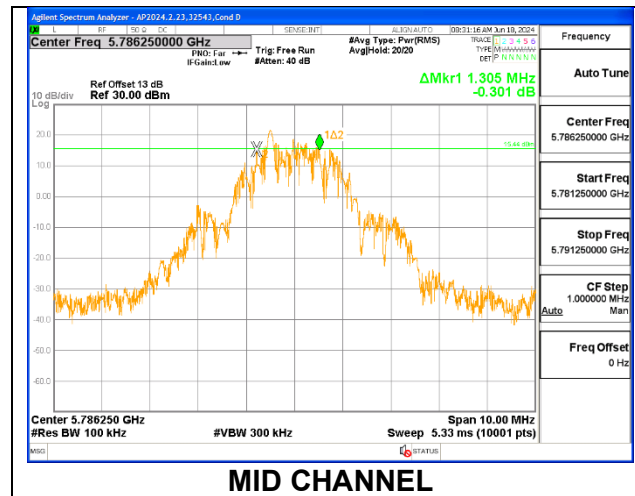
RESULTS

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

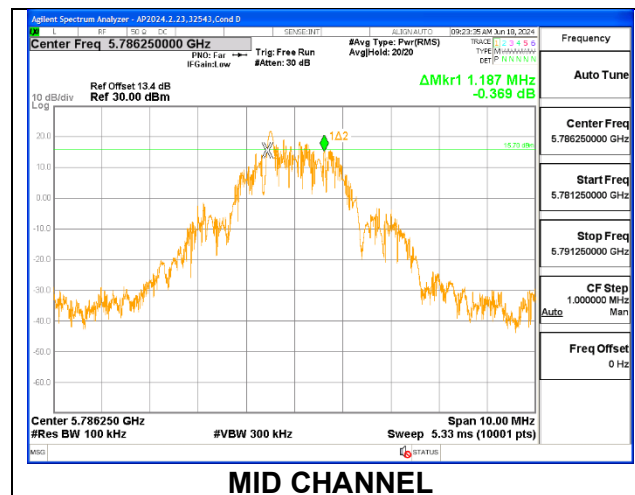
Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.573	0.5
Mid	5786.25	1.305	0.5
High	5846.25	1.261	0.5

**1TX Antenna 5 MODE**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.559	0.5
Mid	5786.25	1.187	0.5
High	5846.25	1.262	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 v02r01, Section E.3 b. Method PM-G.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, 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:	28502 AY
Test Date:	7/13/2024

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	0.30	30.00	30.00
Mid	5786.25	0.30	30.00	30.00
High	5846.25	0.30	30.00	30.00

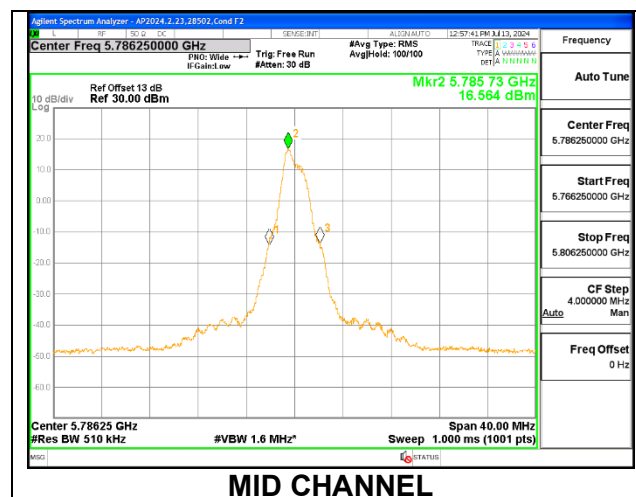
Duty Cycle CF (dB)	1.17	Included in Calculations of Corr'd PSD
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Output Power Results

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	18.82	18.82	30.00	-11.18
High	5846.25	18.84	18.84	30.00	-11.16

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	16.546	17.716	30.00	-12.28
Mid	5786.25	16.564	17.734	30.00	-12.27
High	5846.25	16.686	17.856	30.00	-12.14



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	28502 AY
Test Date:	7/13/2024

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-0.40	30.00	30.00
Mid	5786.25	-0.40	30.00	30.00
High	5846.25	-0.40	30.00	30.00

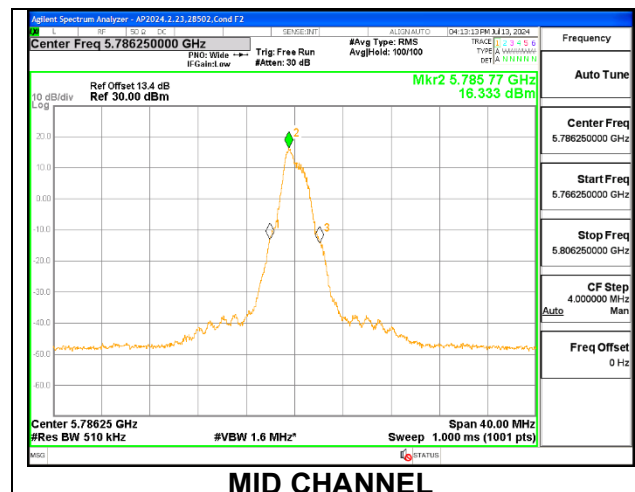
Duty Cycle CF (dB)	1.17	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	18.60	18.60	30.00	-11.40
Mid	5786.25	18.60	18.60	30.00	-11.40
High	5846.25	18.70	18.70	30.00	-11.30

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	16.421	17.591	30.00	-12.41
Mid	5786.25	16.333	17.503	30.00	-12.50
High	5846.25	13.392	14.562	30.00	-15.44



9.4.2. LOW POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	28502 AY
Test Date:	7/13/2024

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	0.30	30.00	30.00
Mid	5786.25	0.30	30.00	30.00
High	5846.25	0.30	30.00	30.00

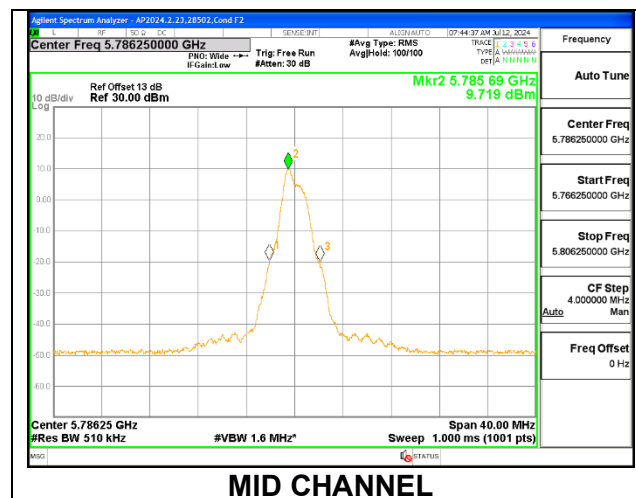
Duty Cycle CF (dB)	1.17	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	11.97	11.97	30.00	-18.03
Mid	5786.25	11.95	11.95	30.00	-18.05
High	5846.25	11.99	11.99	30.00	-18.01

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	9.843	11.013	30.00	-18.99
Mid	5786.25	9.719	10.889	30.00	-19.11
High	5846.25	9.951	11.121	30.00	-18.88



1TX Antenna 5 MODE (FCC+IC)

Test Engineer:	28502 AY
Test Date:	7/13/2024

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	-0.40	30.00	30.00
Mid	5786.25	-0.40	30.00	30.00
High	5846.25	-0.40	30.00	30.00

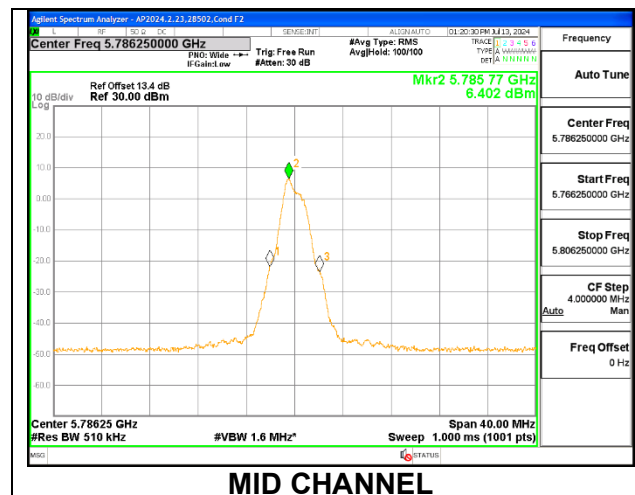
Duty Cycle CF (dB)	1.17	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5728.75	8.92	8.92	30.00	-21.08
Mid	5786.25	8.95	8.95	30.00	-21.05
High	5846.25	8.87	8.87	30.00	-21.13

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	6.399	7.569	30.00	-22.43
Mid	5786.25	6.402	7.572	30.00	-22.43
High	5846.25	6.287	7.457	30.00	-22.54



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

6.2.4.3 (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.

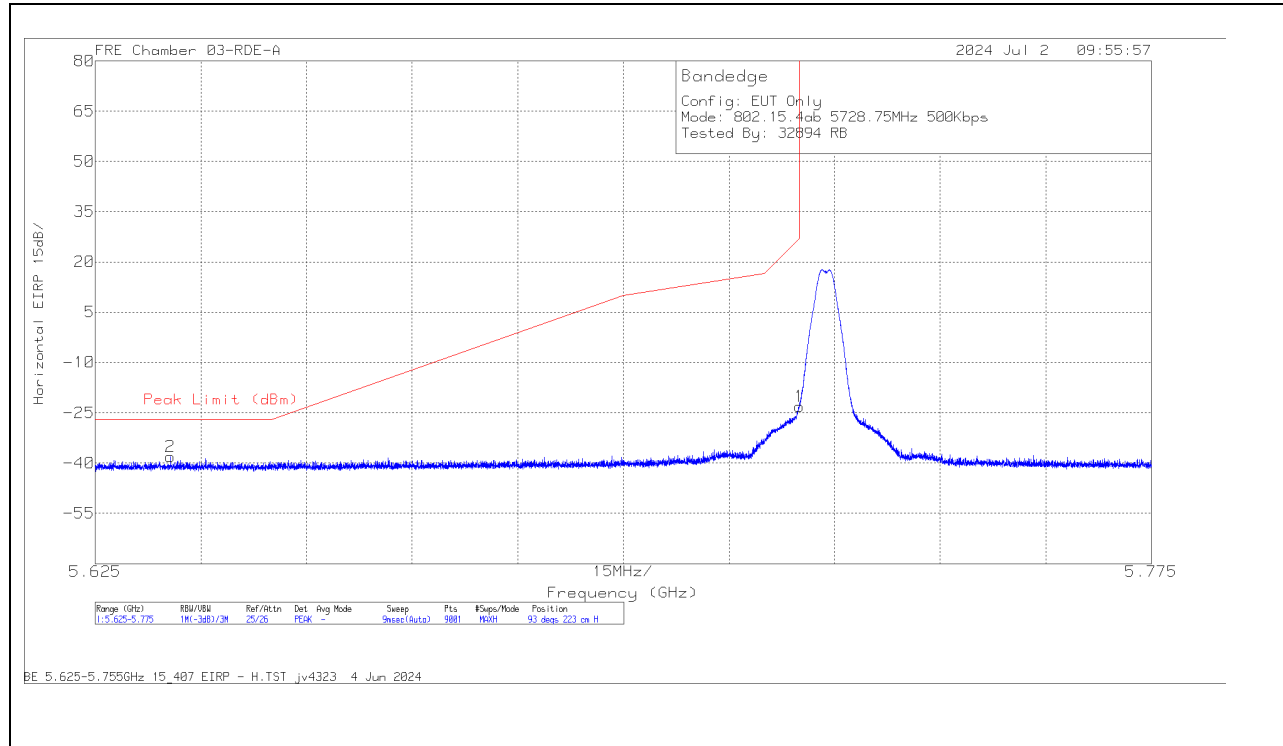
RESULTS

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. ANT 6, 500Kbps, HIGH POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

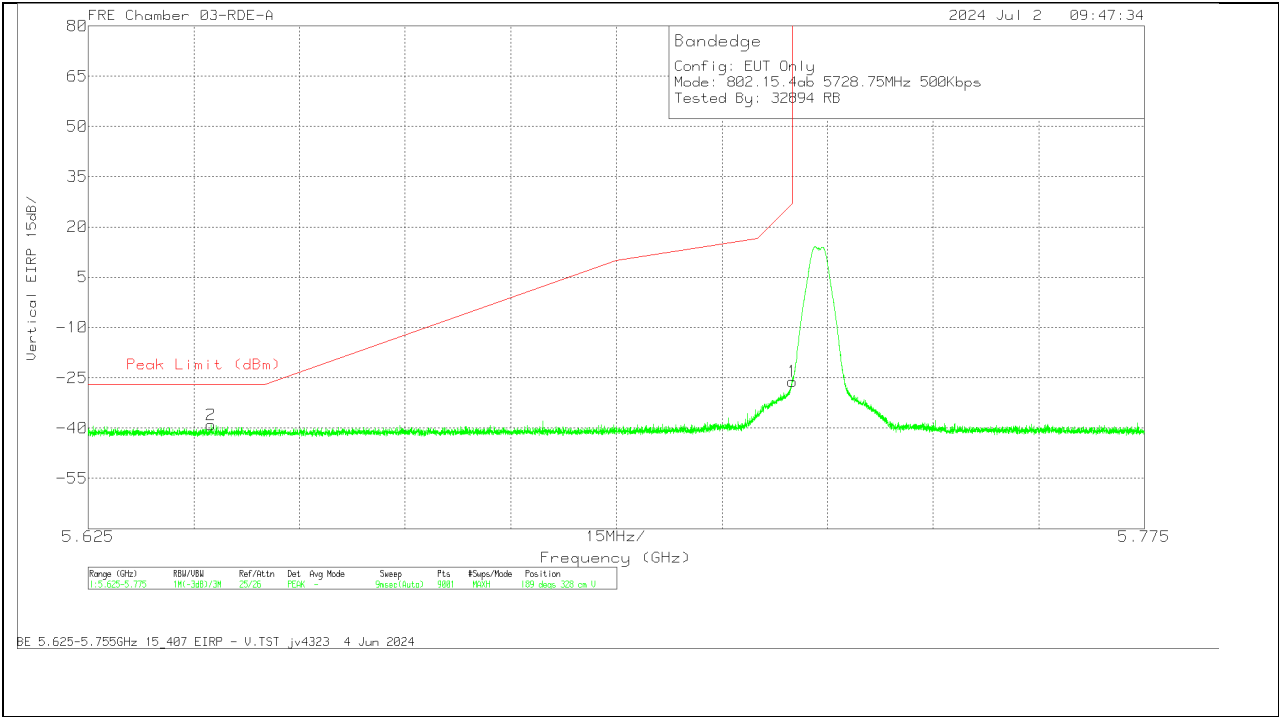
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63565	-46.97	PK	34.4	11.8	0	-37.33	-38.1	-27	-11.1	93	223	H
1	5.725	-32.35	PK	34.6	11.8	0	-37.13	-23.08	27	-50.08	93	223	H

PK - Peak detector

VERTICAL RESULT

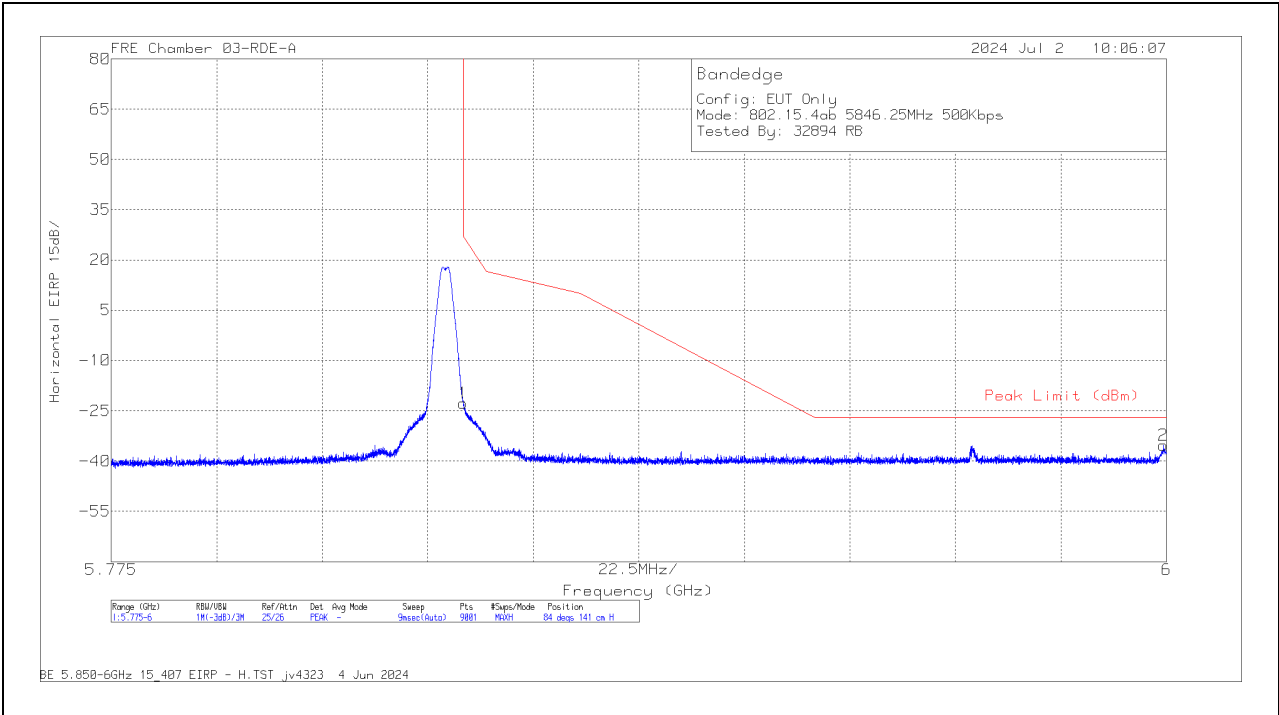


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.642467	-47.96	Pk	34.4	11.8	0	-37.33	-39.09	-27	-12.09	189	328	V
1	5.725	-35.43	Pk	34.6	11.8	0	-37.13	-26.16	27	-53.16	189	328	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

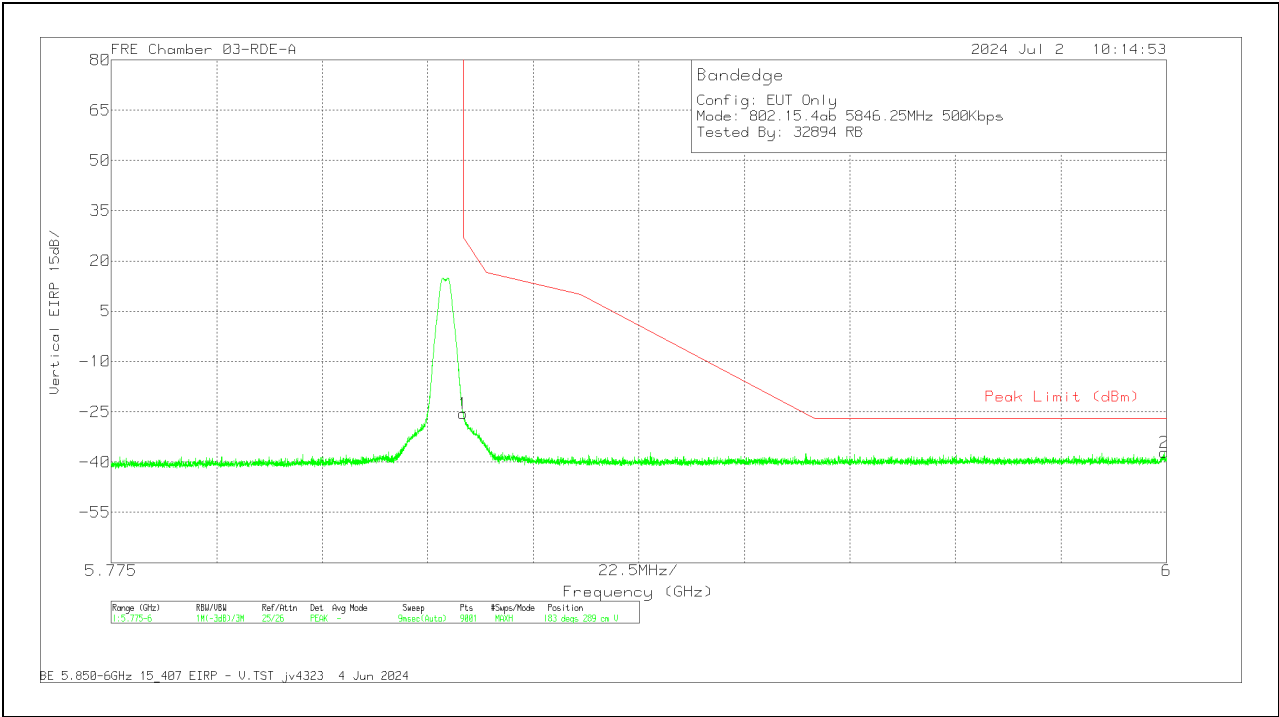
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	Z26673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-32.64	Pk	35	11.8	0	-36.87	-22.71	27	-49.71	84	141	H
2	5.999375	-45.77	Pk	35.3	11.8	0	-36.59	-35.26	-27	-8.26	84	141	H

Pk - Peak detector

VERTICAL RESULT

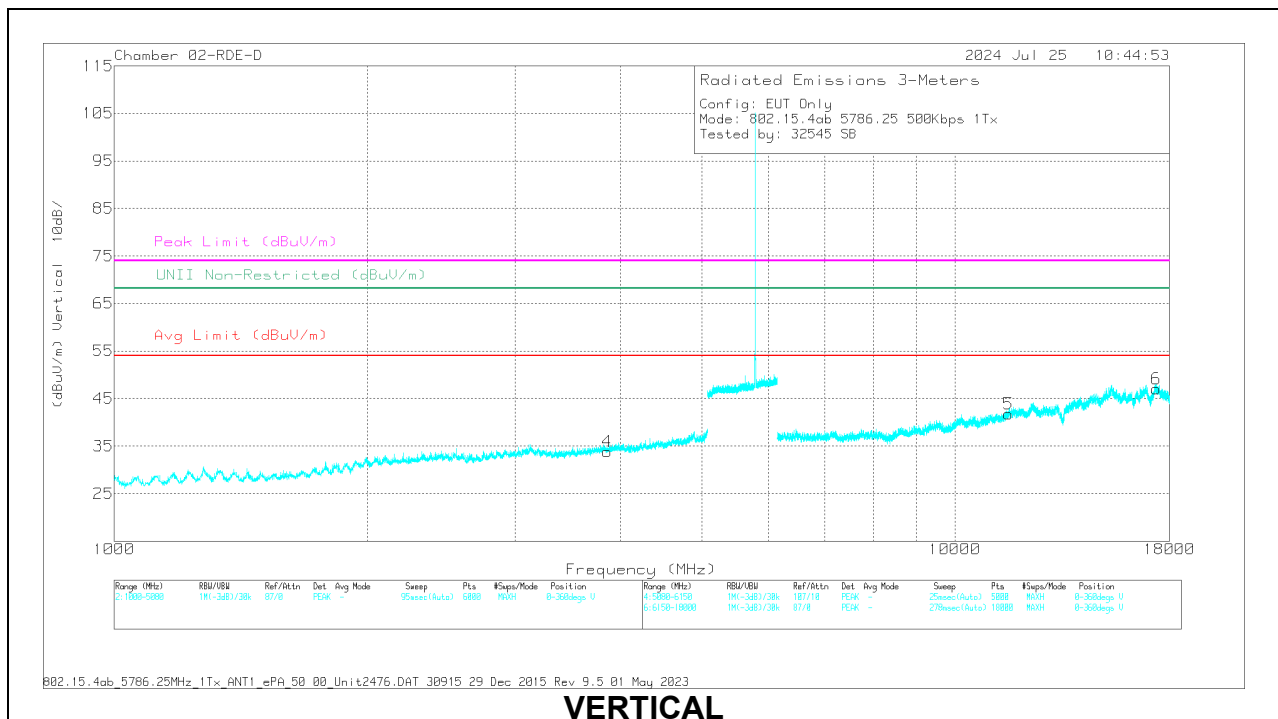
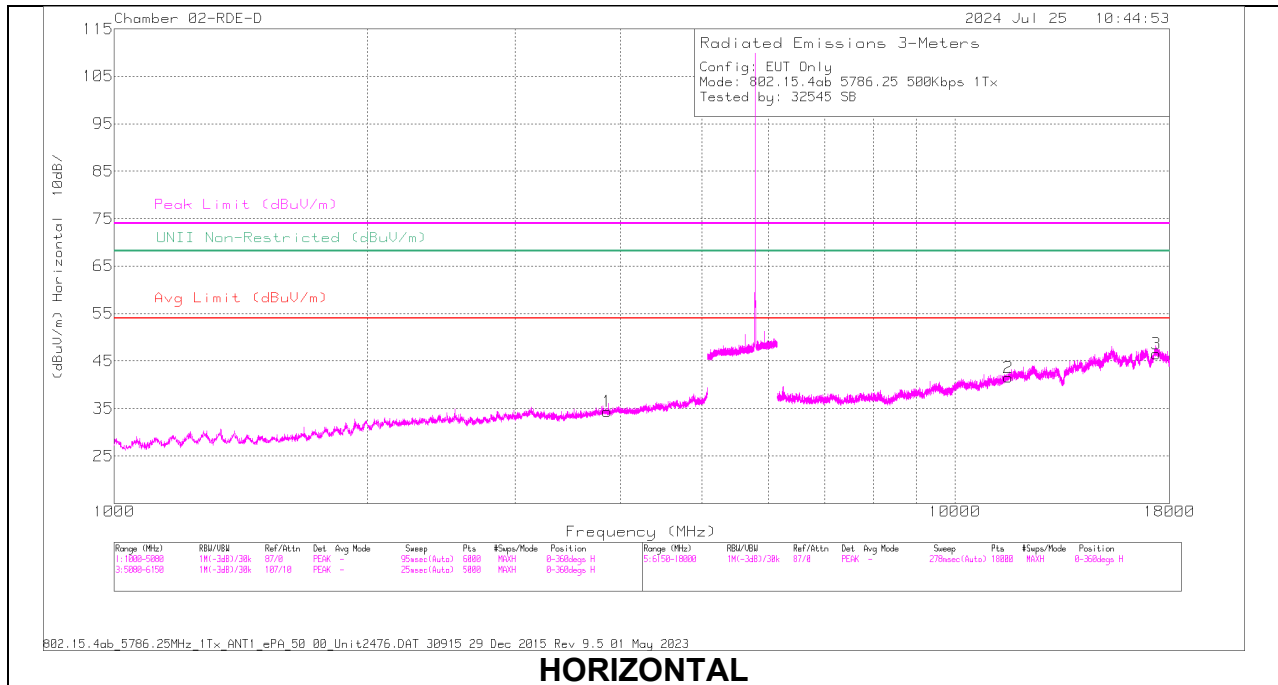


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-35.44	Pk	35	11.8	0	-36.87	-25.51	27	-52.51	183	289	V
2	5.999525	-47.63	Pk	35.3	11.8	0	-36.59	-37.12	-27	-10.12	183	289	V

Pk - Peak detector

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

LOW CHANNEL RESULTS



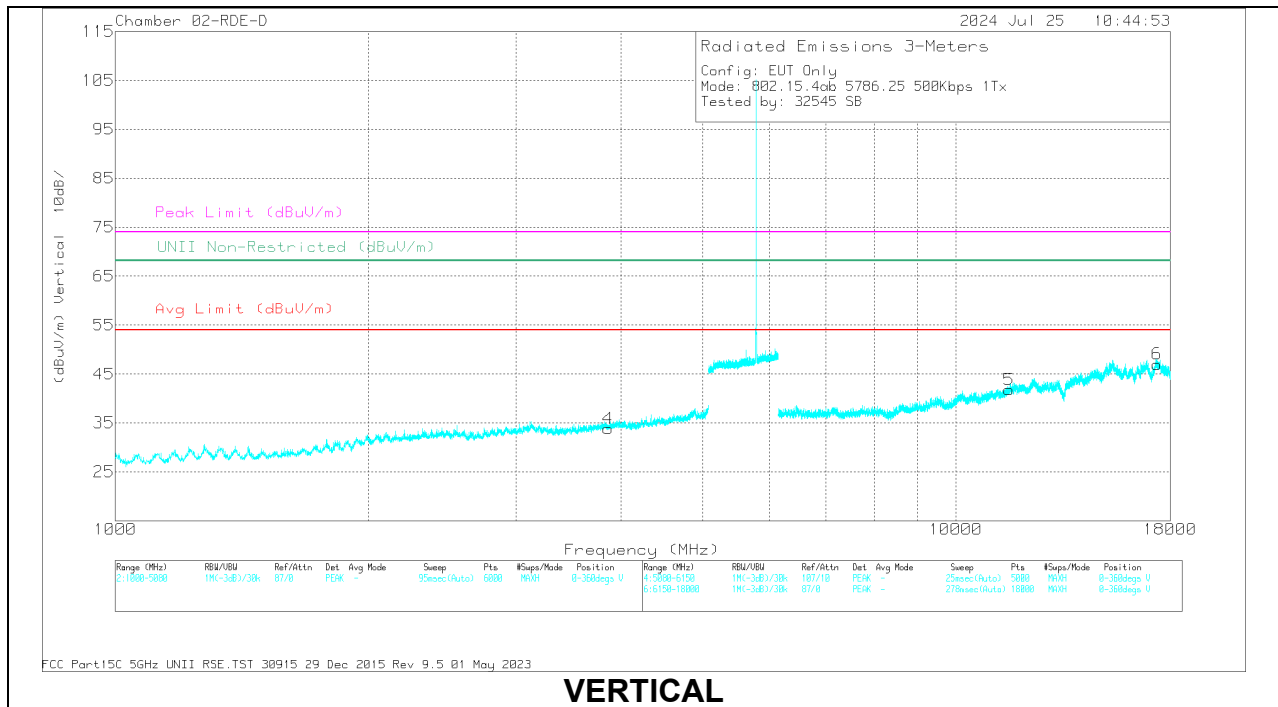
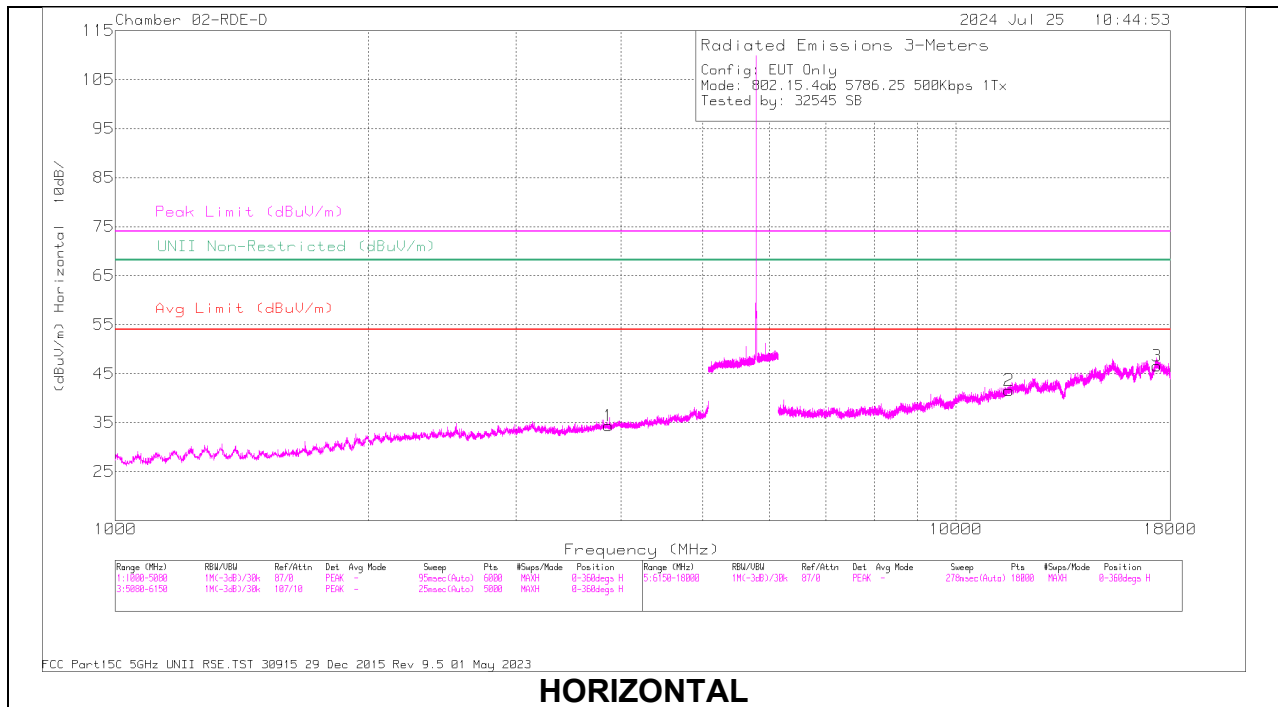
RADIATED EMISSIONS

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3859.304	38.08	PK-U	33.4	-26.7	0	44.78	-	-	74	-29.22	-	-	360	200	H
	* 3860.099	26.19	ADR	33.4	-26.6	1.17	34.16	54	-19.84	-	-	-	-	360	200	H
4	* 3859.335	37.65	PK-U	33.4	-26.7	0	44.35	-	-	74	-29.65	-	-	360	101	V
	* 3858.411	26.15	ADR	33.4	-26.7	1.17	34.02	54	-19.98	-	-	-	-	360	101	V
2	* 11573.348	33.49	PK-U	38.4	-19.8	0	52.09	-	-	74	-21.91	-	-	360	200	H
	* 11572.146	21.74	ADR	38.4	-19.8	1.17	41.51	54	-12.49	-	-	-	-	360	200	H
5	* 11574.044	33.48	PK-U	38.4	-19.8	0	52.08	-	-	74	-21.92	-	-	360	101	V
	* 11570.963	21.78	ADR	38.4	-19.7	1.17	41.65	54	-12.35	-	-	-	-	360	101	V
6	17356.727	32.23	PK-U	41.1	-16.2	0	57.13	-	-	-	-	68.2	-11.07	360	200	V
3	17357.987	32.28	PK-U	41.1	-16.3	0	57.08	-	-	-	-	68.2	-11.12	360	101	H
	17358.588	20.59	ADR	41.1	-16.3	1.17	46.56	-	-	-	-	-	-	360	200	V
	17359.726	20.61	ADR	41.1	-16.4	1.17	46.48	-	-	-	-	-	-	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

MID CHANNEL RESULTS

RADIATED EMISSIONS

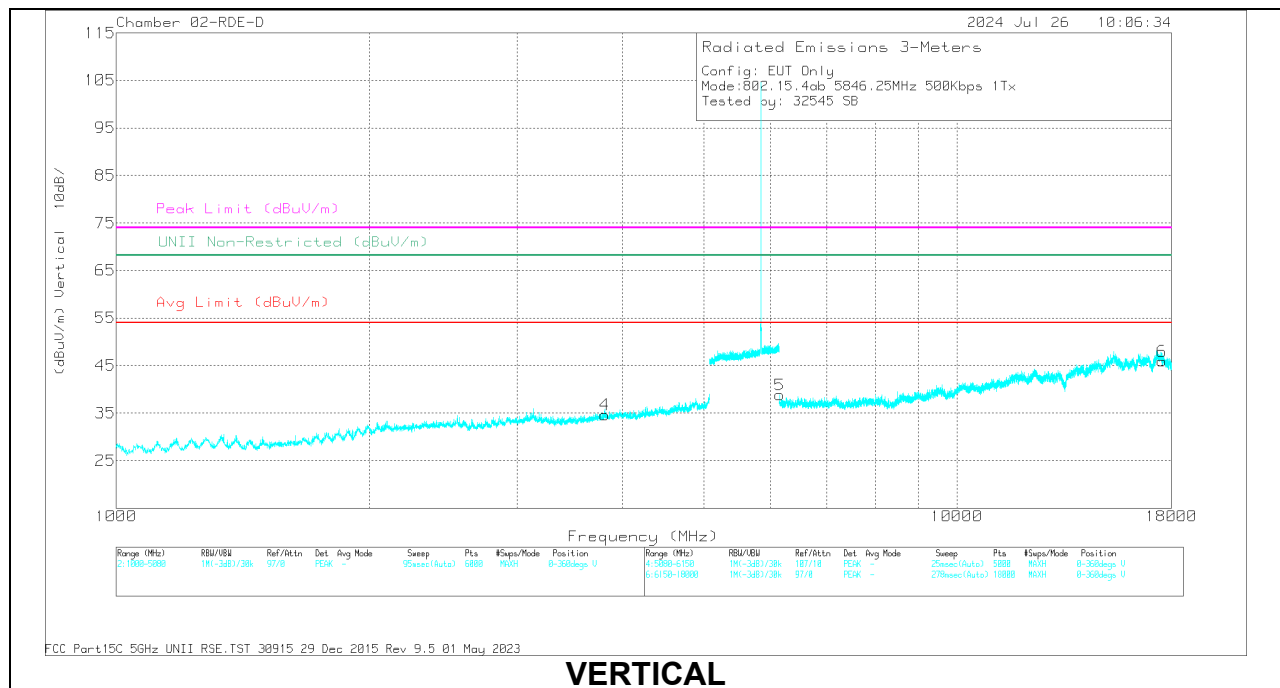
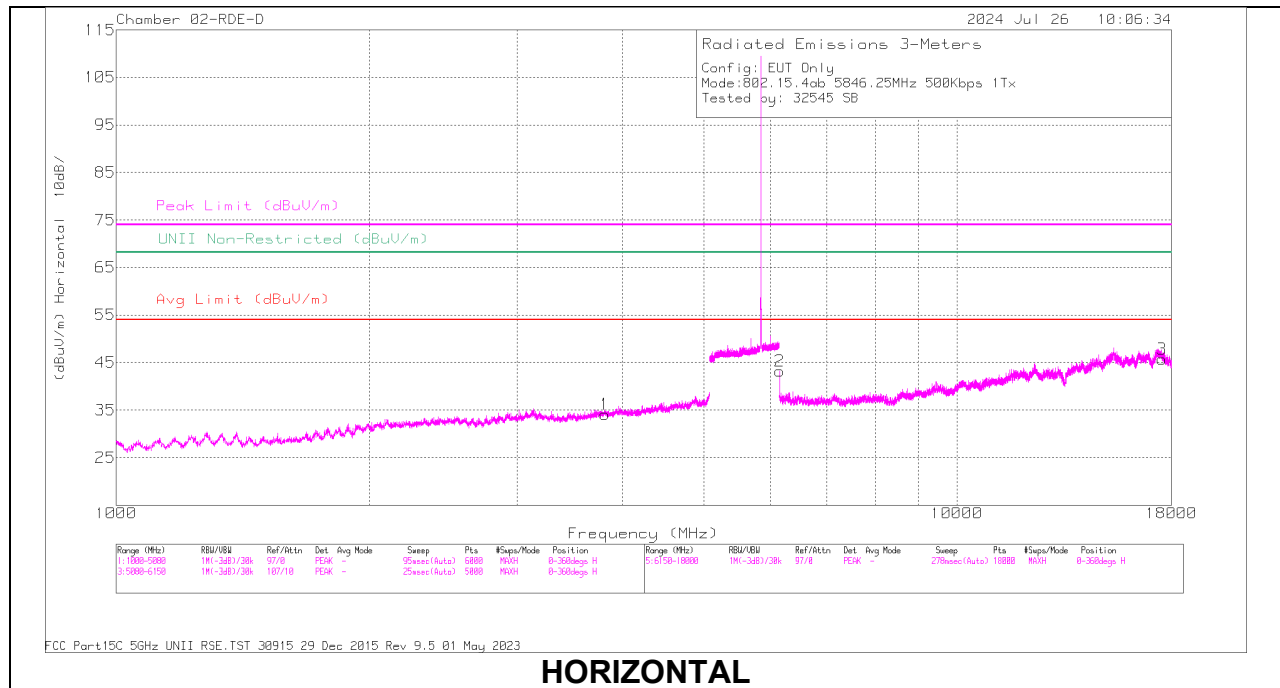
Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3859.304	38.08	PK-U	33.4	-26.7	0	44.78	-	-	74	-29.22	-	-	360	200	H
	* 3860.099	26.19	ADR	33.4	-26.6	1.17	34.16	54	-19.84	-	-	-	-	360	200	H
4	* 3859.335	37.65	PK-U	33.4	-26.7	0	44.35	-	-	74	-29.65	-	-	360	101	V
	* 3858.411	26.15	ADR	33.4	-26.7	1.17	34.02	54	-19.98	-	-	-	-	360	101	V
2	* 11573.348	33.49	PK-U	38.4	-19.8	0	52.09	-	-	74	-21.91	-	-	360	200	H
	* 11572.146	21.74	ADR	38.4	-19.8	1.17	41.51	54	-12.49	-	-	-	-	360	200	H
5	* 11574.044	33.48	PK-U	38.4	-19.8	0	52.08	-	-	74	-21.92	-	-	360	101	V
	* 11570.963	21.78	ADR	38.4	-19.7	1.17	41.65	54	-12.35	-	-	-	-	360	101	V
6	17356.727	32.23	PK-U	41.1	-16.2	0	57.13	-	-	-	-	68.2	-11.07	360	200	V
3	17357.987	32.28	PK-U	41.1	-16.3	0	57.08	-	-	-	-	68.2	-11.12	360	101	H
	17358.588	20.59	ADR	41.1	-16.3	1.17	46.56	-	-	-	-	-	-	360	200	V
	17359.726	20.61	ADR	41.1	-16.4	1.17	46.48	-	-	-	-	-	-	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3814.076	38.13	PK-U	33.4	-26.6	0	44.93	-	-	74	-29.07	-	-	41	351	H
	* 3814.052	26.69	ADR	33.4	-26.6	1.17	34.66	54	-19.34	-	-	-	-	41	351	H
4	* 3813.966	38.38	PK-U	33.4	-26.6	0	45.18	-	-	74	-28.82	-	-	354	161	V
	* 3811.759	26.39	ADR	33.4	-26.5	1.17	34.46	54	-19.54	-	-	-	-	354	161	V
5	6152.715	37.99	PK-U	35.3	-24.6	0	48.69	-	-	-	-	68.2	-19.51	344	292	V
2	6152.844	29.03	ADR	35.3	-24.6	1.17	40.9	-	-	-	-	-	-	233	227	H
	6152.993	26.52	ADR	35.3	-24.6	1.17	38.39	-	-	-	-	-	-	344	292	V
	6153.191	40.21	PK-U	35.3	-24.6	0	50.91	-	-	-	-	68.2	-17.29	233	227	H
6	17534.793	19.89	ADR	41.1	-16	1.17	46.16	-	-	-	-	-	-	4	384	V
	17537.183	31.93	PK-U	41.1	-16.1	0	56.93	-	-	-	-	68.2	-11.27	4	384	V
3	17540.266	32.16	PK-U	41.1	-16.1	0	57.16	-	-	-	-	68.2	-11.04	162	205	H
	17540.574	19.99	ADR	41.1	-16.1	1.17	46.16	-	-	-	-	-	-	162	205	H

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

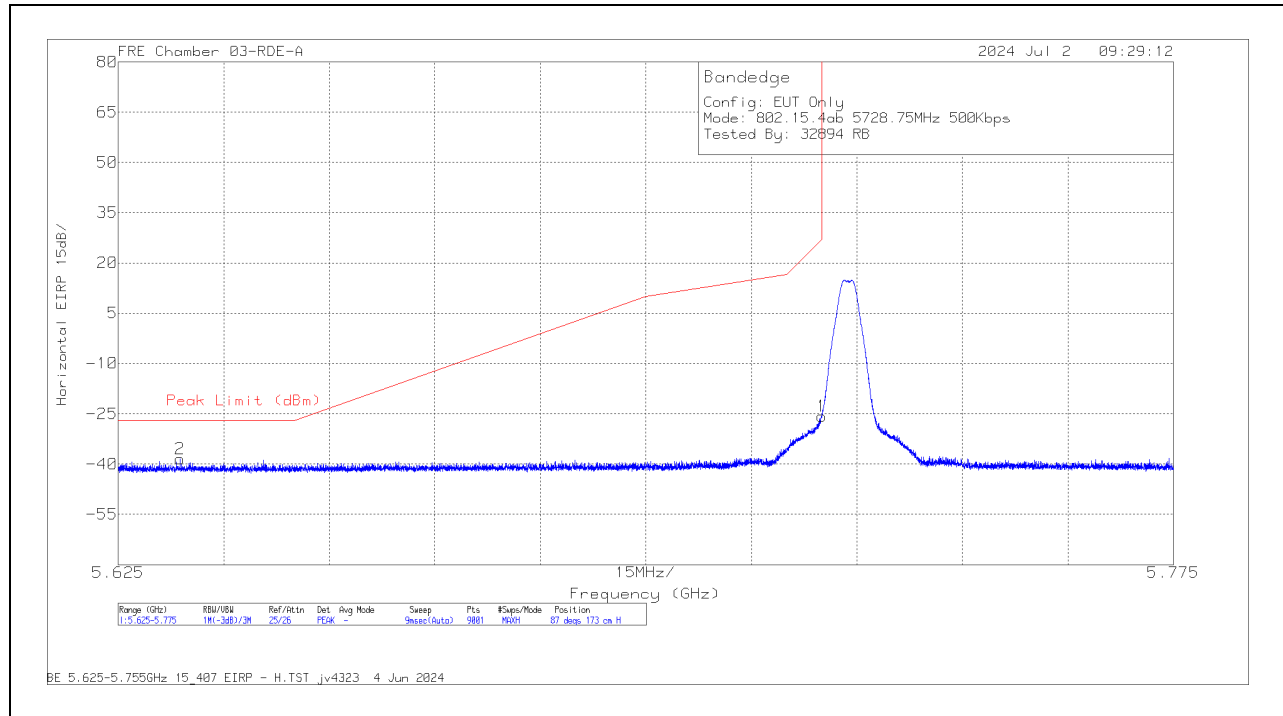
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

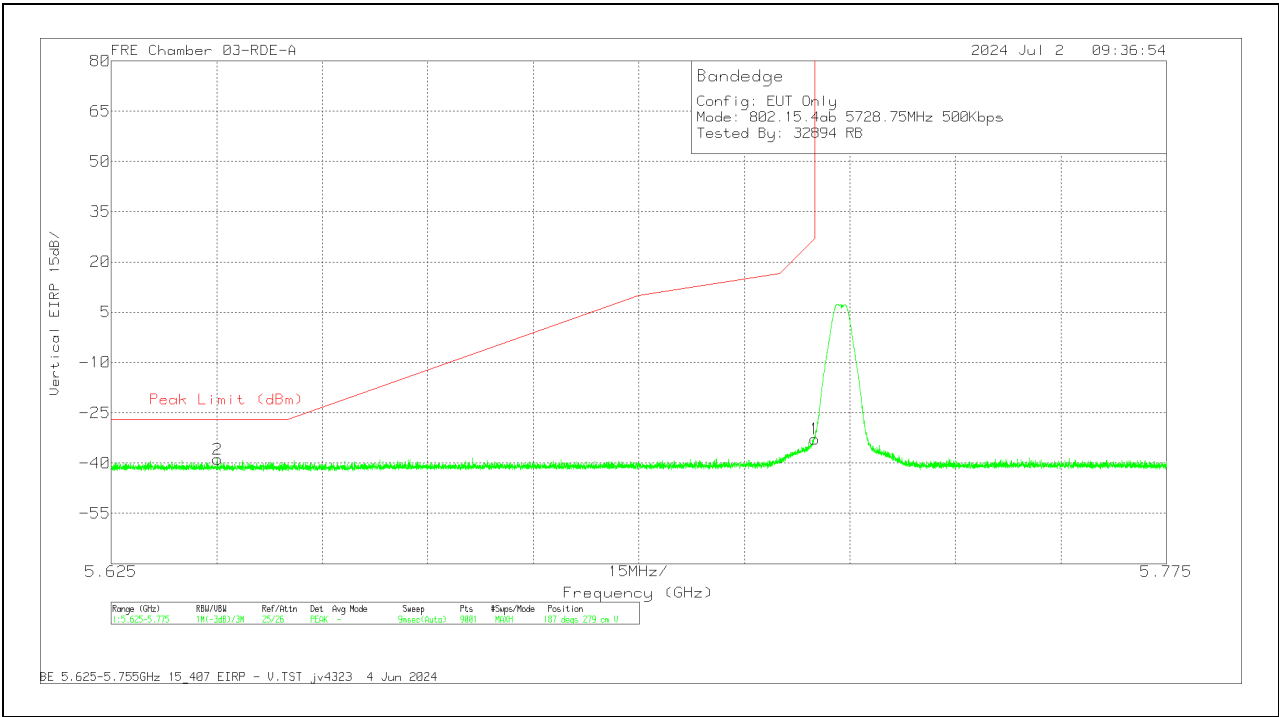
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6338	-47.4	Pk	34.4	11.8	0	-37.32	-38.52	-27	-11.52	87	173	H
1	5.725	-34.99	Pk	34.6	11.8	0	-37.13	-25.72	27	-52.72	87	173	H

Pk - Peak detector

VERTICAL RESULT

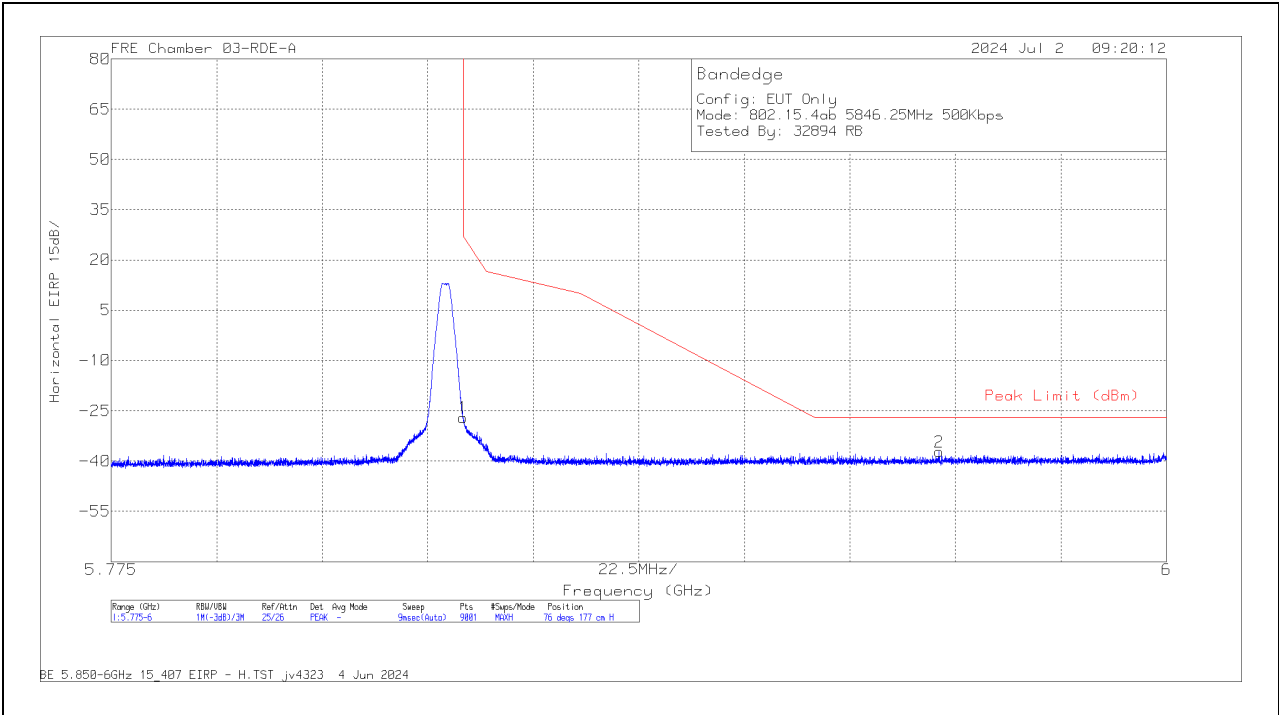


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.640134	-47.76	Pk	34.4	11.8	0	-37.36	-38.92	-27	-11.92	187	279	V
1	5.725	-42.15	Pk	34.6	11.8	0	-37.13	-32.88	27	-59.88	187	279	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

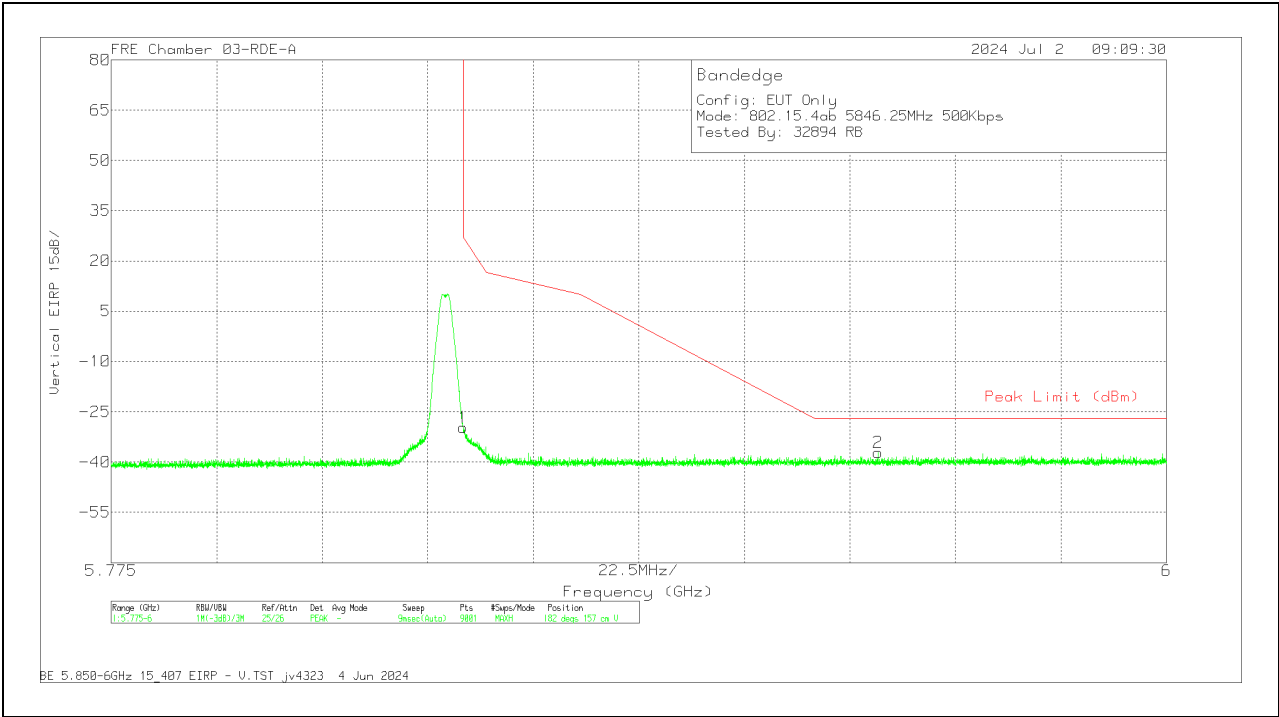
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	5.85	-36.93	Pk	35	11.8	0	-36.87	-27	27	-54	76	177	H
2	5.95155	-47.67	Pk	35.3	11.8	0	-36.67	-37.24	-27	-10.24	76	177	H

Pk - Peak detector

VERTICAL RESULT

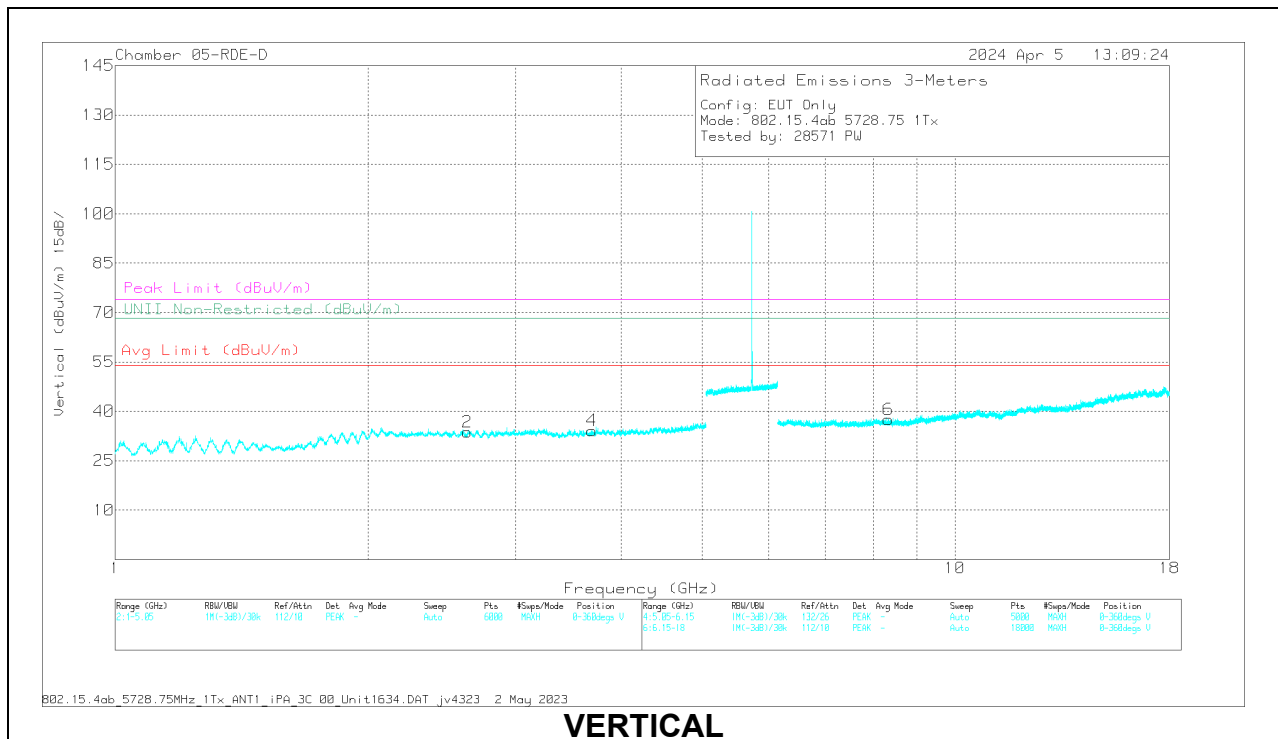
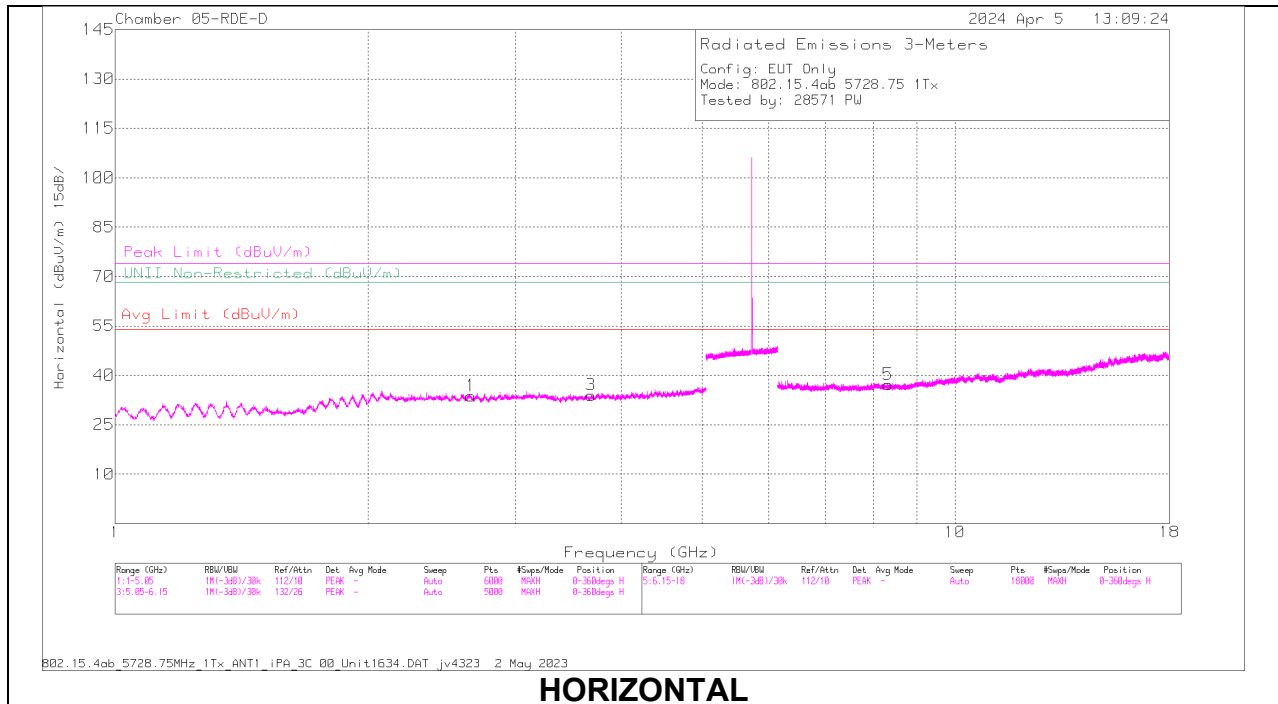


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-39.58	Pk	35	11.8	0	-36.87	-29.65	27	-56.65	182	157	V
2	5.938525	-47.46	Pk	35.2	11.8	0	-36.72	-37.18	-27	-10.18	182	157	V

Pk - Peak detector

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

LOW CHANNEL RESULTS



RADIATED EMISSIONS

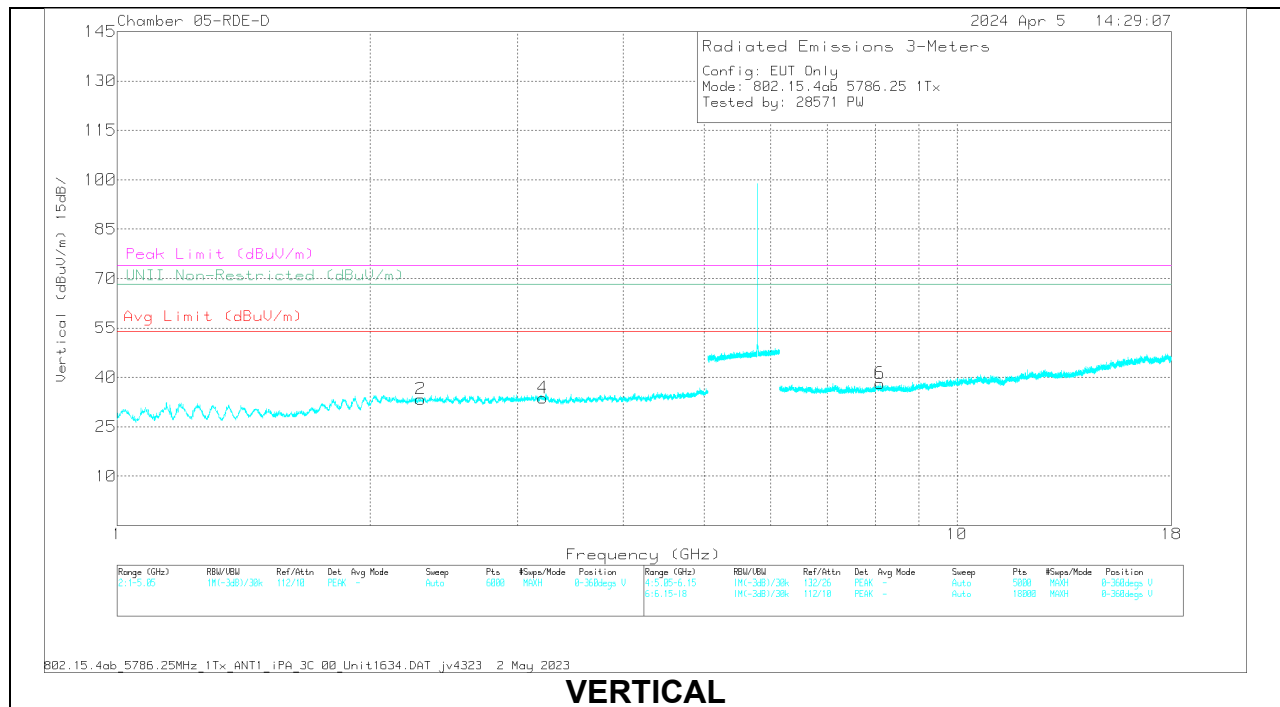
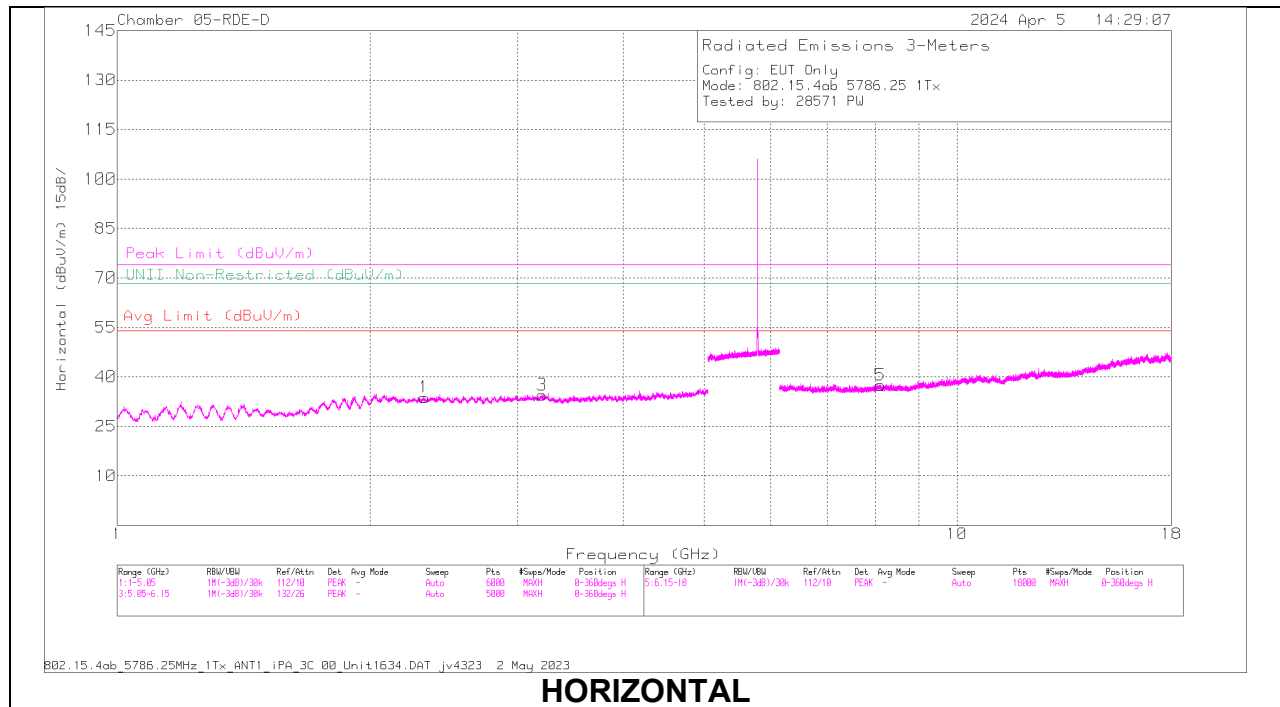
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.626786	60.51	PK-U	32.5	0	-49.3	43.71	-	-	-	-	68.2	-24.49	262	342	V
1	2.651009	60.5	PK-U	32.5	0	-49.2	43.8	-	-	-	-	68.2	-24.4	118	134	H
	*3.684607	58.04	PK-U	33.3	0	-47.5	43.84	-	-	74	-30.16	-	-	251	183	H
3	*3.685688	45.97	ADR	33.3	1.17	-47.5	32.94	54	-21.06	-	-	-	-	251	183	H
4	*3.692272	46.28	ADR	33.3	1.17	-47.6	33.15	54	-20.85	-	-	-	-	61	133	V
	*3.694592	58.23	PK-U	33.3	0	-47.6	43.93	-	-	74	-30.07	-	-	61	133	V
5	*8.317008	45.15	ADR	35.9	1.17	-45.9	36.32	54	-17.68	-	-	-	-	158	378	H
	*8.318114	57.03	PK-U	35.9	0	-45.9	47.03	-	-	74	-26.97	-	-	158	378	H
6	*8.329175	57.32	PK-U	35.9	0	-45.9	47.32	-	-	74	-26.68	-	-	3	165	V
	*8.329618	45.19	ADR	35.9	1.17	-45.9	36.36	54	-17.64	-	-	-	-	3	165	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



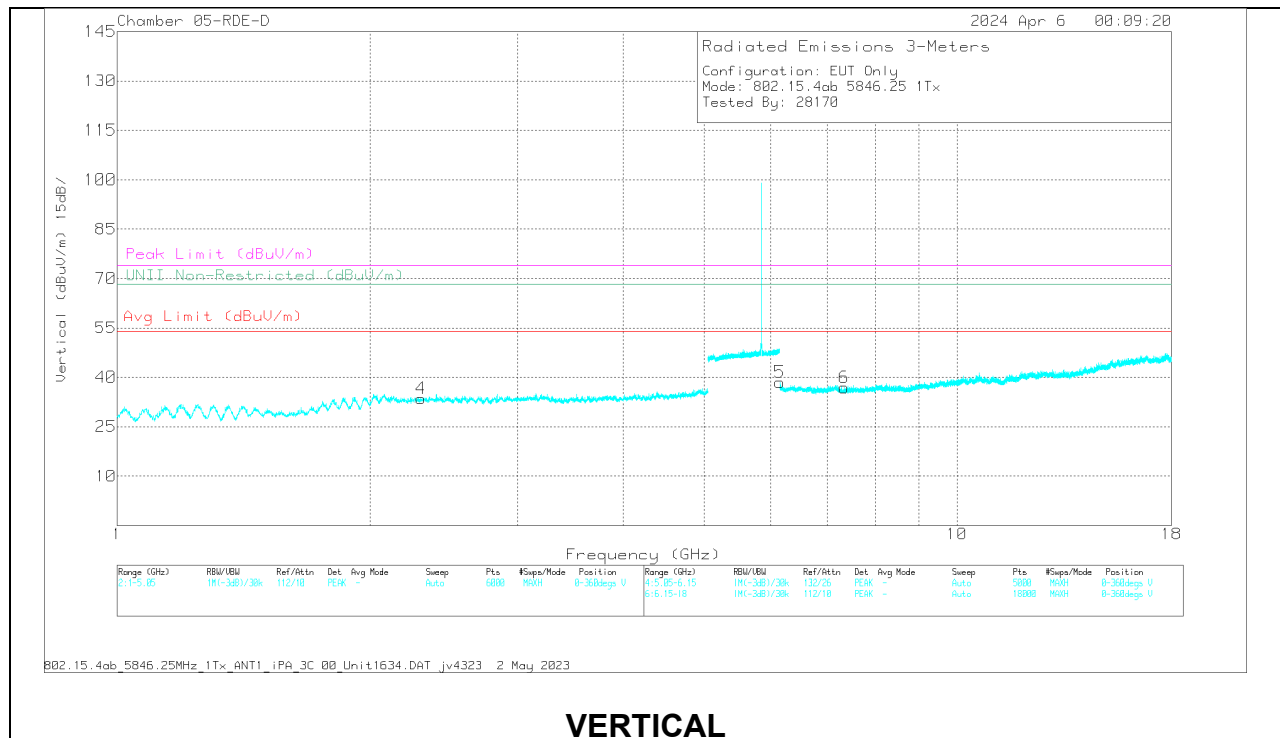
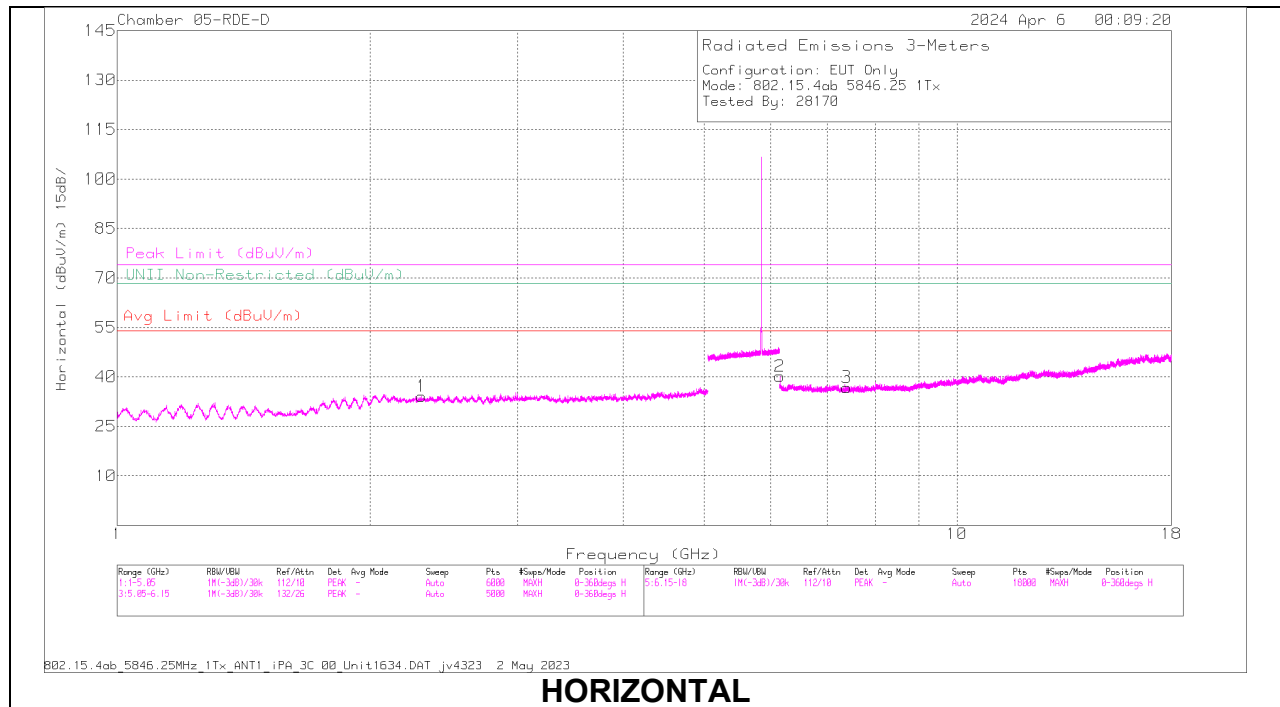
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.295403	62.27	PK-U	32	0	-49.8	44.47	-	-	74	-29.53	-	-	335	114	V
	*2.296461	49.65	ADR	32	1.17	-49.8	33.02	54	-20.98	-	-	-	-	335	114	V
1	*2.317332	61.5	PK-U	32	0	-49.8	43.7	-	-	74	-30.3	-	-	90	270	H
	*2.318782	49.53	ADR	32	1.17	-49.8	32.9	54	-21.1	-	-	-	-	90	270	H
4	3.208319	59.59	PK-U	33.1	0	-47.9	44.79	-	-	-	-	68.2	-23.41	181	225	V
3	3.211215	58.74	PK-U	33.1	0	-47.9	43.94	-	-	-	-	68.2	-24.26	82	353	H
6	*8.093463	57.37	PK-U	35.8	0	-46.1	47.07	-	-	74	-26.93	-	-	174	372	V
5	*8.103125	45.6	ADR	35.8	1.17	-46.1	36.47	54	-17.53	-	-	-	-	125	343	H
	*8.103704	58.02	PK-U	35.8	0	-46.1	47.72	-	-	74	-26.28	-	-	125	343	H

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	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.252192	50.03	ADR	31.9	1.17	-49.8	33.3	54	-20.7	-	-	-	-	2	101	V
	2.290308	61.3	PK-U	32	0	-49.8	43.5	-	-	74	-30.5	-	-	2	101	V
1	2.303085	62.24	PK-U	32	0	-49.8	44.44	-	-	-	-	68.2	-23.76	2	101	H
5	6.15157	56.99	PK-U	35.8	0	-45.7	47.09	-	-	-	-	68.2	-21.11	2	101	V
2	6.153622	56.78	PK-U	35.8	0	-45.7	46.88	-	-	-	-	68.2	-21.32	2	101	H
6	7.339529	57.99	PK-U	35.8	0	-46.85	46.94	-	-	74	-27.06	-	-	2	101	V
	7.341294	45.96	ADR	35.8	1.17	-46.9	36.03	54	-17.97	-	-	-	-	2	101	V
3	7.387888	45.81	ADR	35.7	1.17	-46.7	35.98	54	-18.02	-	-	-	-	2	200	H
	7.390036	57.45	PK-U	35.7	0	-46.6	46.55	-	-	74	-27.45	-	-	2	200	H

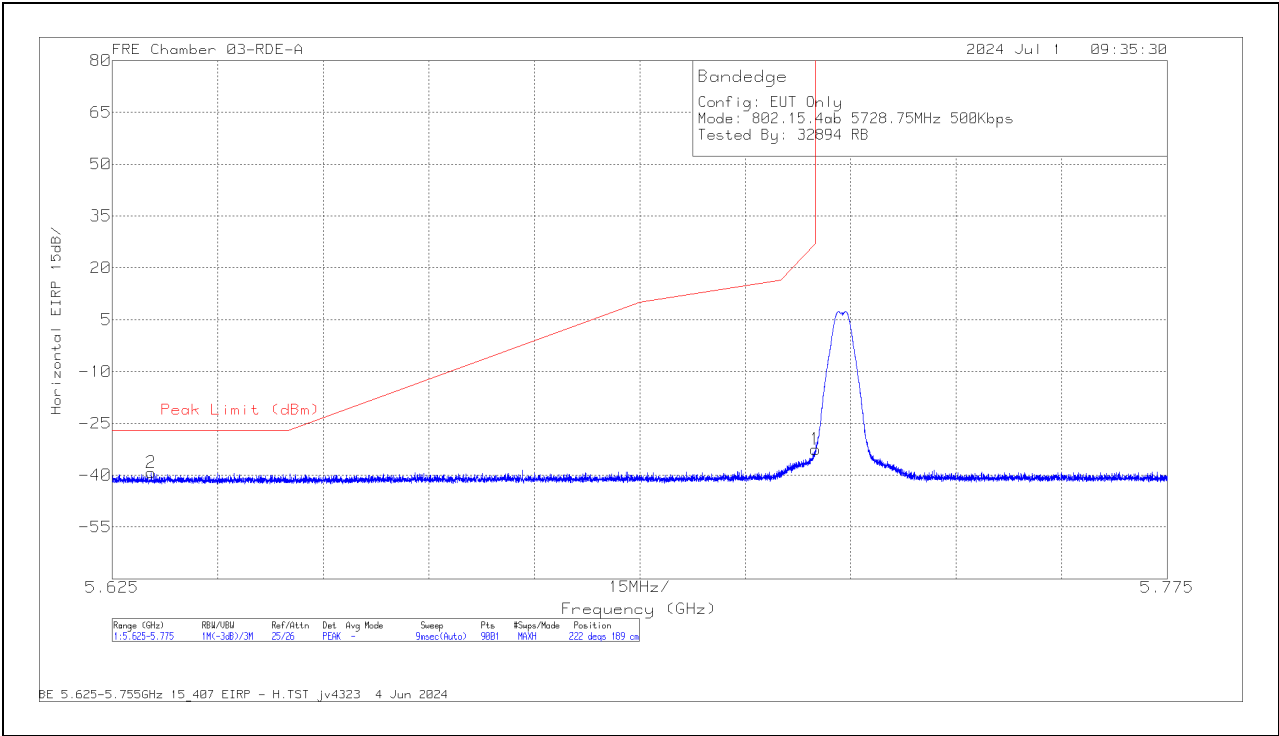
PK-U - U-NII: Maximum Peak

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)

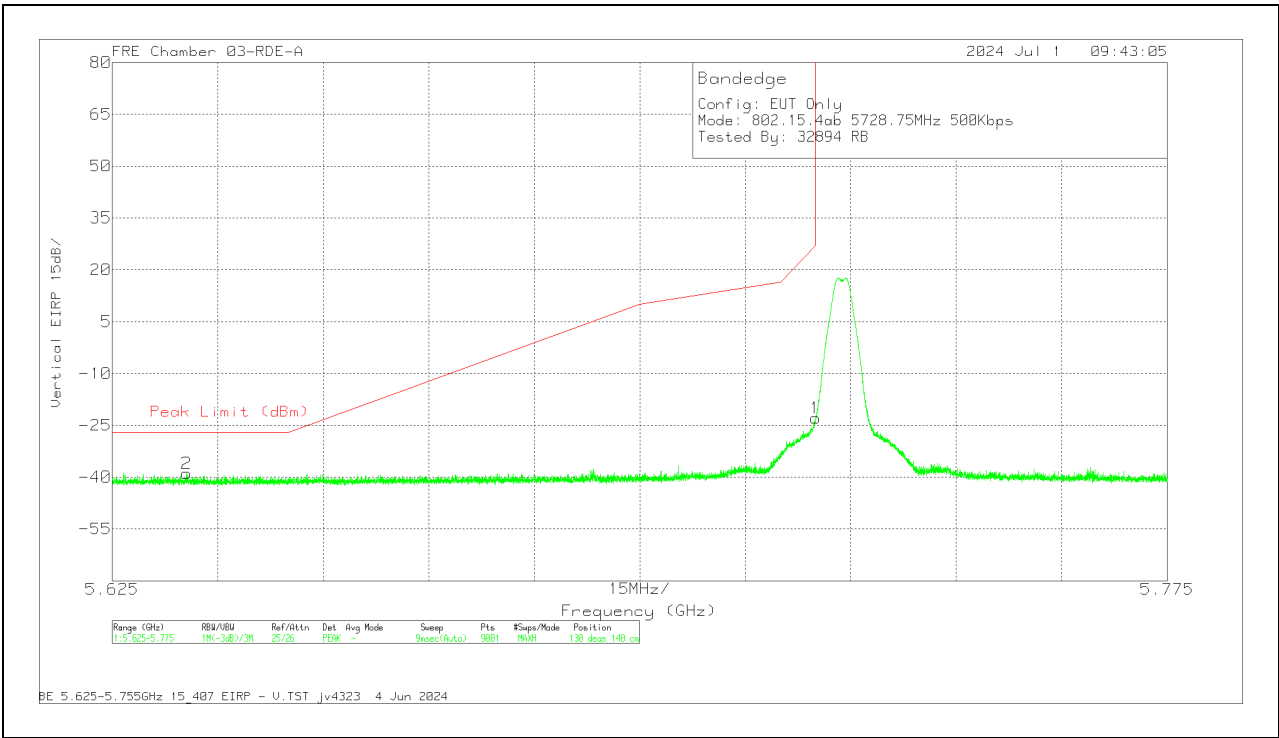
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.630517	-48.08	Pk	34.4	11.8	0	-37.39	-39.27	-27	-12.27	222	189	H
1	5.725	-41.79	Pk	34.6	11.8	0	-37.13	-32.52	27	-59.52	222	189	H

Pk - Peak detector

VERTICAL RESULT

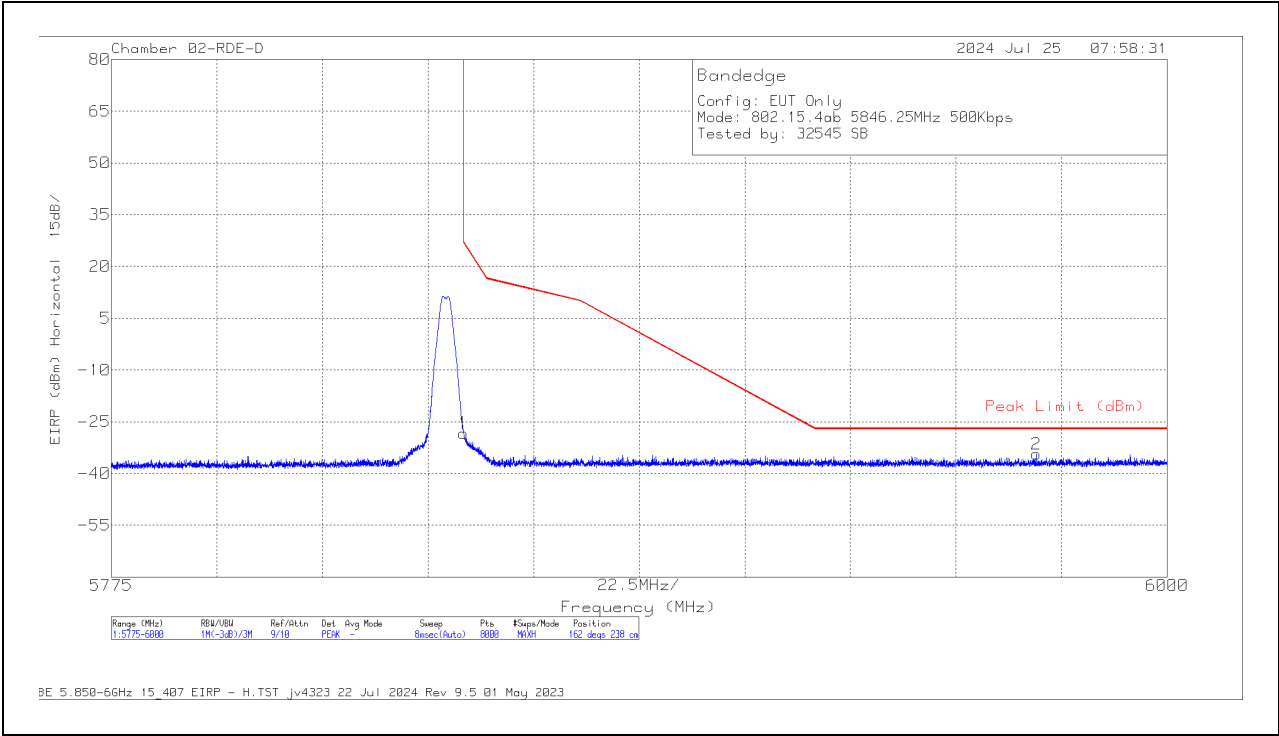


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.635567	-47.79	Pk	34.4	11.8	0	-37.33	-38.92	-27	-11.92	130	140	V
1	5.725	-32.2	Pk	34.6	11.8	0	-37.13	-22.93	27	-49.93	130	140	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

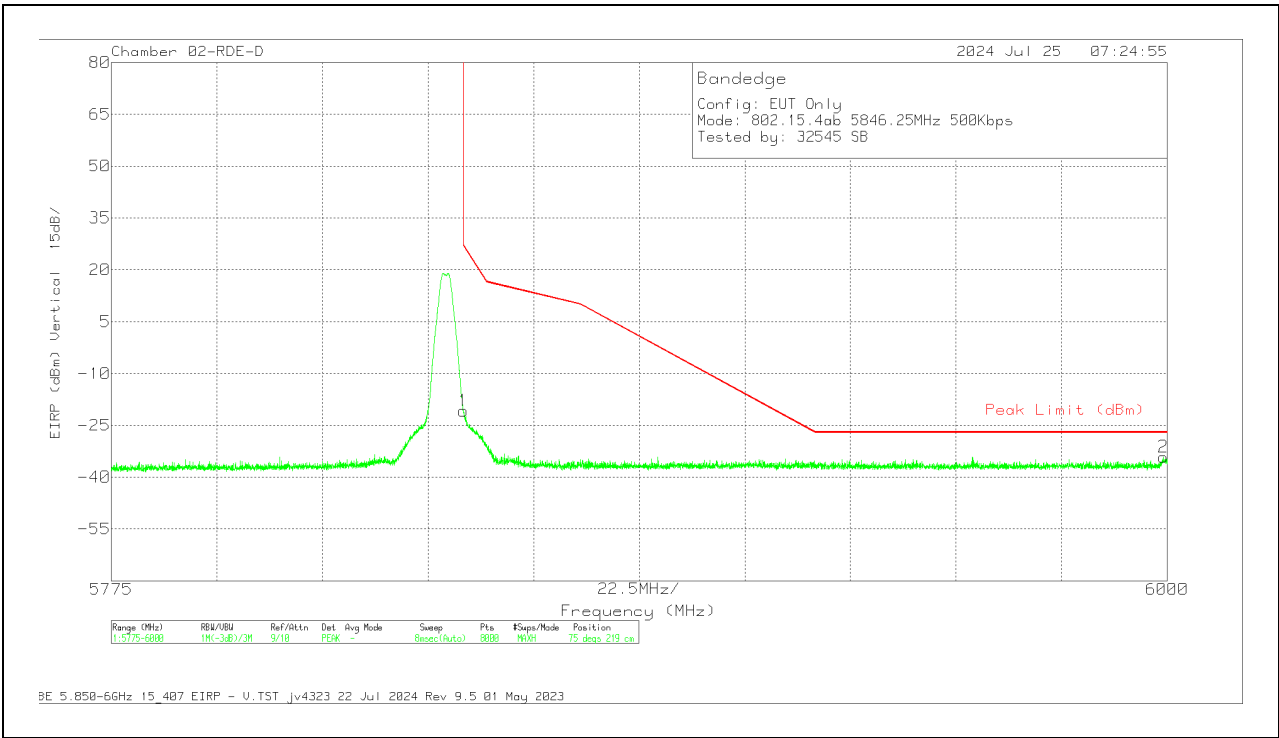
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	DCCF (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-59.4	Pk	35	-15.7	11.8	0	-28.3	27	-55.3	162	238	H
2	5972.072	-65.66	Pk	35.3	-15.8	11.8	0	-34.36	-27	-7.36	162	238	H

Pk - Peak detector

VERTICAL RESULT

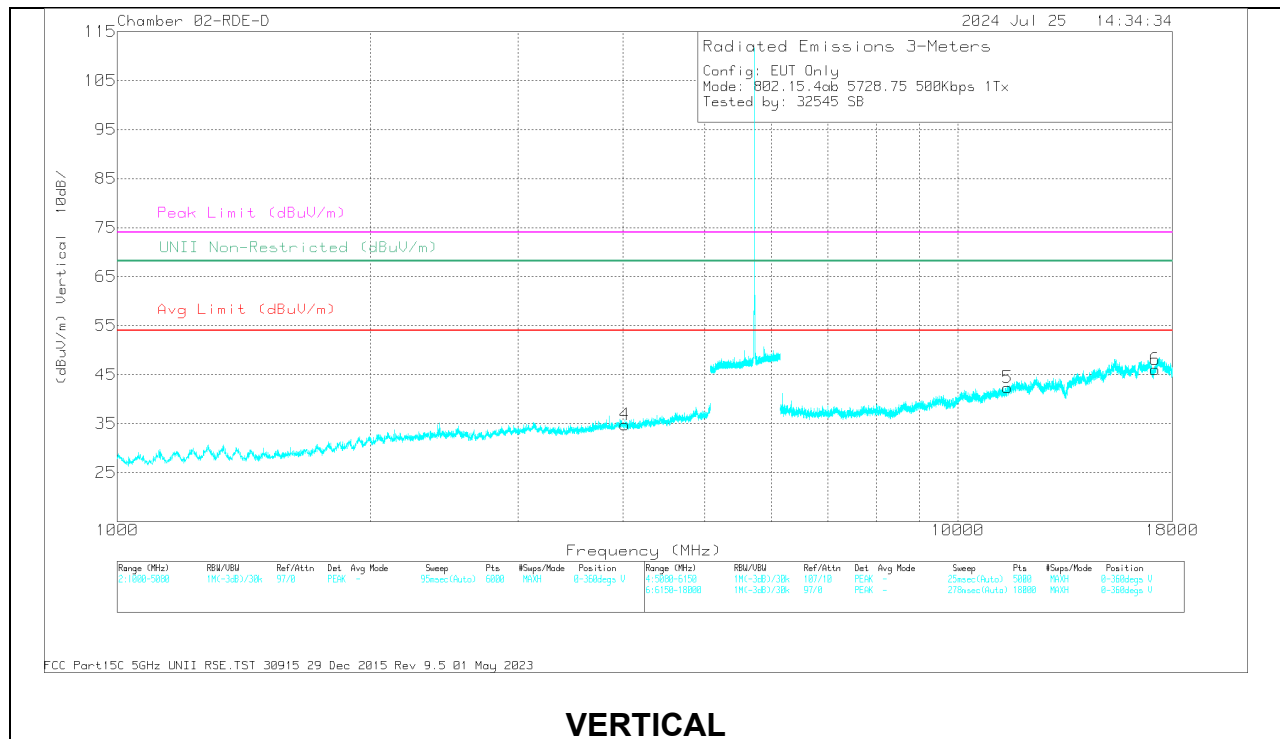
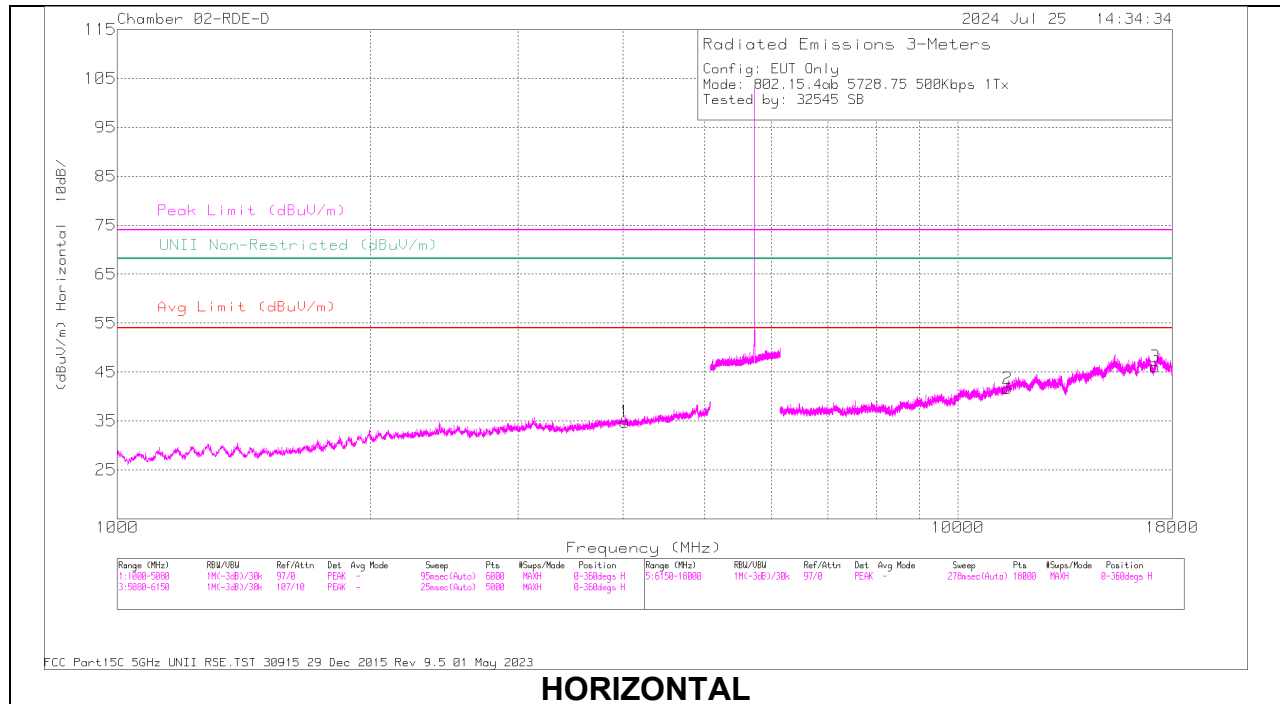


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	DCCF (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-51.87	Pk	35	-15.7	11.8	0	-20.77	27	-47.77	75	219	V
2	5999.188	-65.45	Pk	35.3	-15.8	11.8	0	-34.15	-27	-7.15	75	219	V

Pk - Peak detector

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

LOW CHANNEL RESULTS



RADIATED EMISSIONS

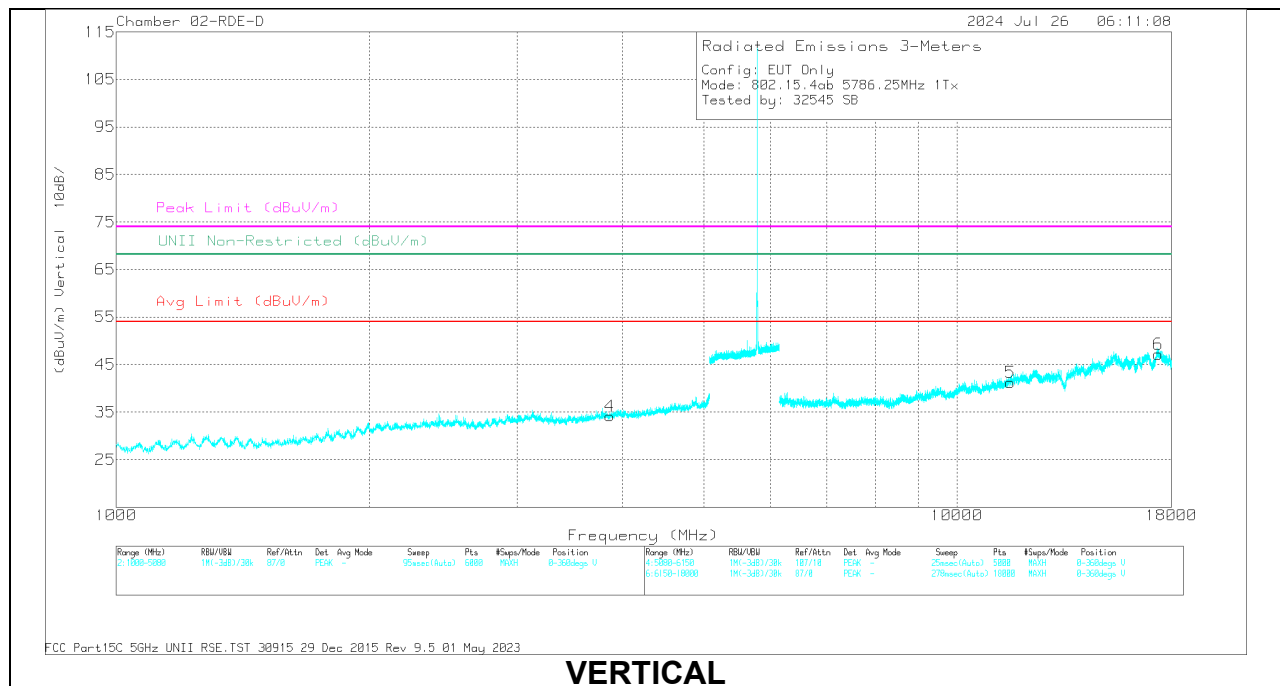
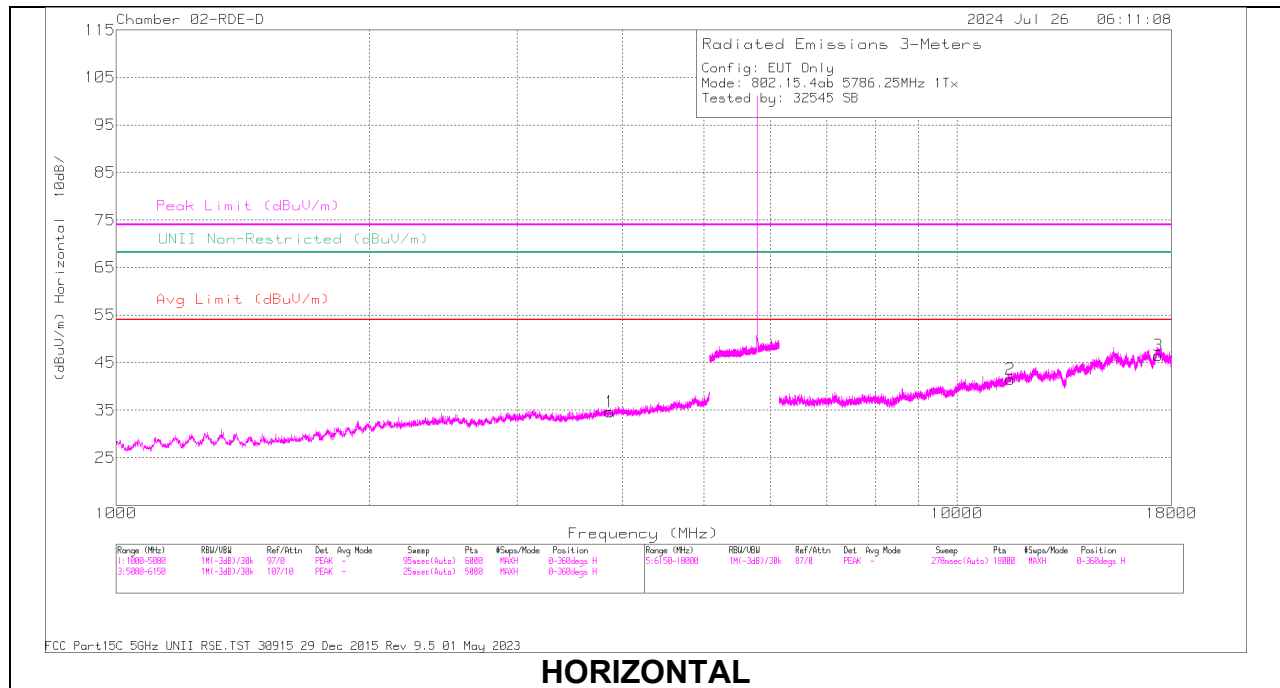
Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 4017.317	38.03	PK-U	33.4	-26.1	0	45.33	-	-	74	-28.67	-	-	360	200	H
	* 4017.132	26.22	ADR	33.4	-26.1	1.17	34.69	54	-19.31	-	-	-	-	360	200	H
4	* 4019.287	37.83	PK-U	33.4	-26.1	0	45.13	-	-	74	-28.87	-	-	360	200	V
	* 4017.664	26.06	ADR	33.4	-26.1	1.17	34.53	54	-19.47	-	-	-	-	360	200	V
2	* 11456.813	33.54	PK-U	38.4	-19.5	0	52.44	-	-	74	-21.56	-	-	360	101	H
	* 11456.812	21.78	ADR	38.4	-19.5	1.17	41.85	54	-12.15	-	-	-	-	360	101	H
5	* 11460.123	34.11	PK-U	38.4	-19.5	0	53.01	-	-	74	-20.99	-	-	360	101	V
	* 11458.502	21.83	ADR	38.4	-19.5	1.17	41.9	54	-12.1	-	-	-	-	360	101	V
3	17186.077	30.26	PK-U	41.3	-15.3	0	56.26	-	-	-	-	68.2	-11.94	360	101	H
6	17186.276	18.59	ADR	41.3	-15.3	1.17	45.76	-	-	-	-	-	-	360	200	V
	17187.08	18.64	ADR	41.3	-15.3	1.17	45.81	-	-	-	-	-	-	360	101	H
	17187.367	30.3	PK-U	41.3	-15.3	0	56.3	-	-	-	-	68.2	-11.9	360	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

MID CHANNEL RESULTS



RADIATED EMISSIONS

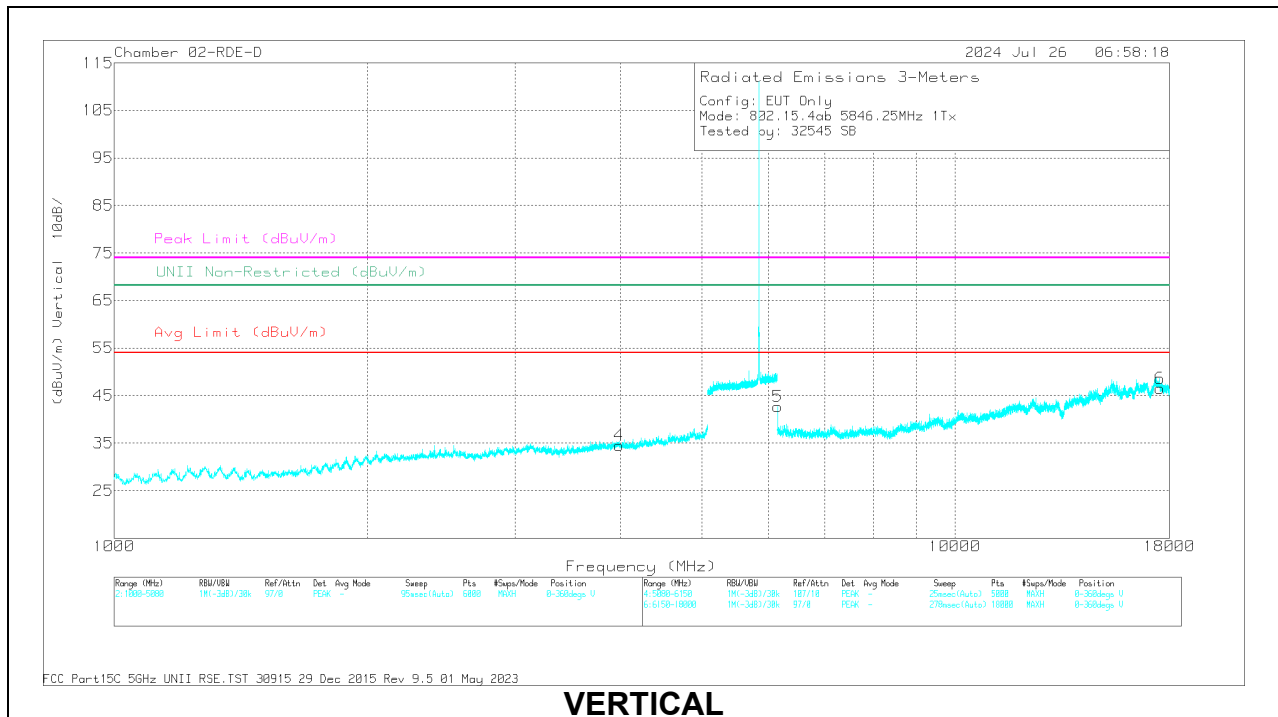
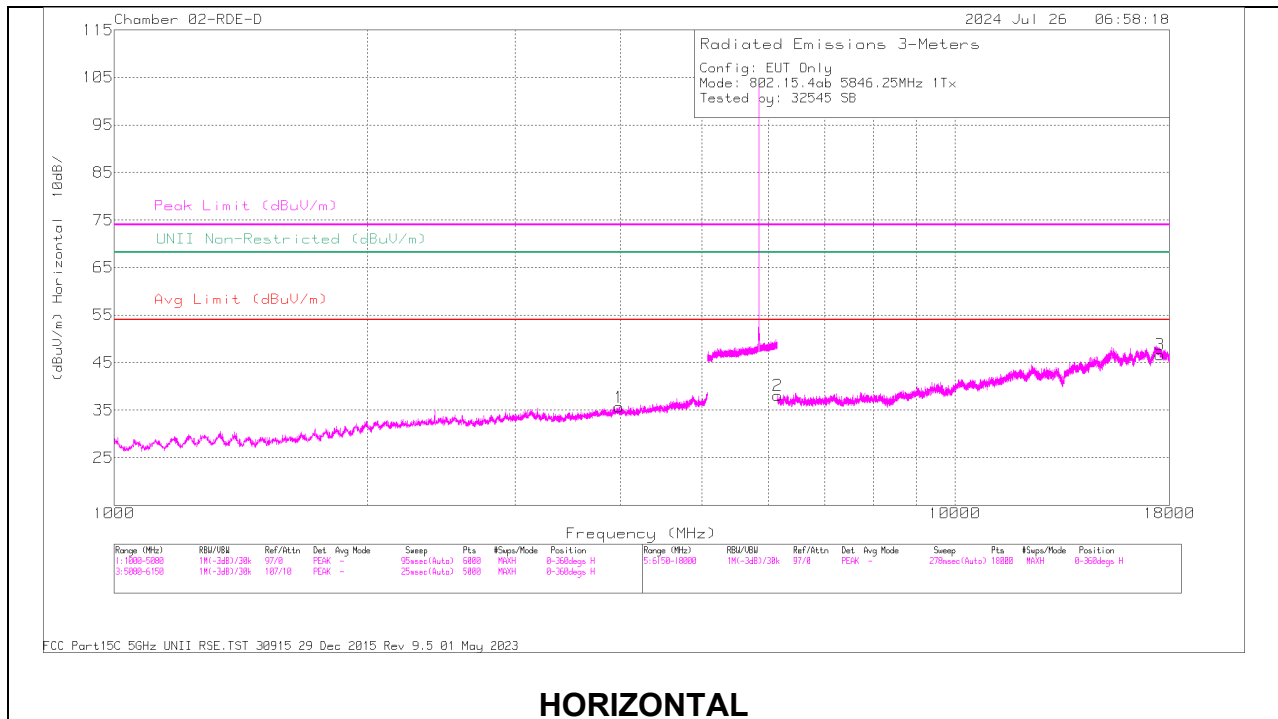
Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3866.664	37.63	PK-U	33.4	-26.8	0	44.23	-	-	74	-29.77	-	-	360	199	H
	* 3867.922	26.17	ADR	33.4	-26.8	1.17	33.94	54	-20.06	-	-	-	-	360	199	H
4	* 3866.03	37.72	PK-U	33.4	-26.7	0	44.42	-	-	74	-29.58	-	-	360	101	V
	* 3863.169	26.1	ADR	33.4	-26.6	1.17	34.07	54	-19.93	-	-	-	-	360	101	V
2	* 11573.16	33.44	PK-U	38.4	-19.8	0	52.04	-	-	74	-21.96	-	-	360	101	H
	* 11571.595	21.74	ADR	38.4	-19.8	1.17	41.51	54	-12.49	-	-	-	-	360	101	H
5	* 11570.329	33.41	PK-U	38.4	-19.7	0	52.11	-	-	74	-21.89	-	-	360	101	V
	* 11567.17	21.74	ADR	38.4	-19.7	1.17	41.61	54	-12.39	-	-	-	-	360	101	V
3	17356.709	20.72	ADR	41.1	-16.2	1.17	46.79	-	-	-	-	-	-	360	101	H
	17356.88	32.79	PK-U	41.1	-16.2	0	57.69	-	-	-	-	68.2	-10.51	360	101	H
6	17360.894	31.98	PK-U	41.1	-16.4	0	56.68	-	-	-	-	68.2	-11.52	360	101	V
	17361.425	20.64	ADR	41.1	-16.4	1.17	46.51	-	-	-	-	-	-	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

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF(dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3987.43	38.73	PK-U	33.4	-26.5	0	45.63	-	-	74	-28.37	-	-	12	388	H
	* 3988.241	26.37	ADR	33.4	-26.5	1.17	34.44	54	-19.56	-	-	-	-	12	388	H
4	* 3984.379	38.15	PK-U	33.5	-26.4	0	45.25	-	-	74	-28.75	-	-	166	221	V
	* 3983.96	26.37	ADR	33.5	-26.4	1.17	34.64	54	-19.36	-	-	-	-	166	221	V
5	6152.835	41.42	PK-U	35.3	-24.6	0	52.12	-	-	-	-	68.2	-16.08	282	242	V
	6152.844	30.32	ADR	35.3	-24.6	1.17	42.19	-	-	-	-	-	-	282	242	V
2	6152.898	37.76	PK-U	35.3	-24.6	0	48.46	-	-	-	-	68.2	-19.74	338	398	H
	6152.956	26.37	ADR	35.3	-24.6	1.17	38.24	-	-	-	-	-	-	338	398	H
6	17541.456	31.64	PK-U	41.1	-16.1	0	56.64	-	-	-	-	68.2	-11.56	259	259	V
	17544.033	20.18	ADR	41.1	-16.1	1.17	46.35	-	-	-	-	-	-	259	259	V
3	17544.65	20.22	ADR	41.1	-16.1	1.17	46.39	-	-	-	-	-	-	253	280	H
	17545.784	32.14	PK-U	41.1	-16	0	57.24	-	-	-	-	68.2	-10.96	253	280	H

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

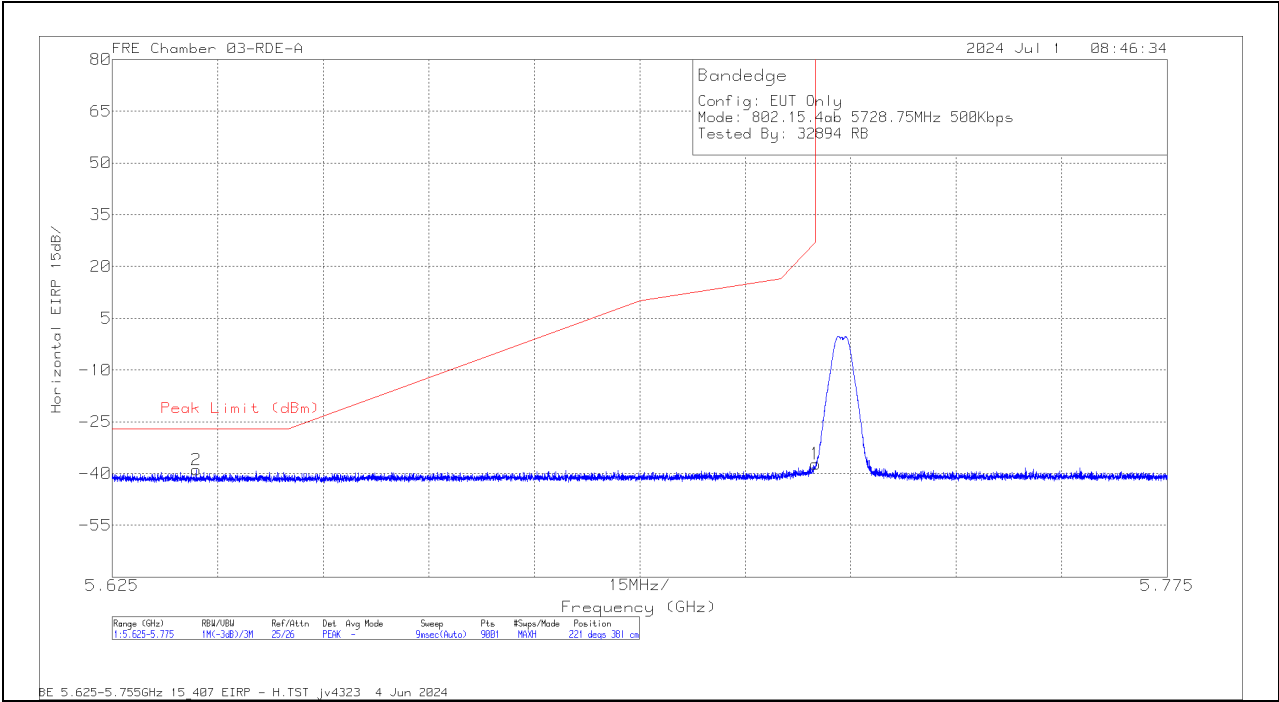
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.7. ANT 5, 500Kbps LOW POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

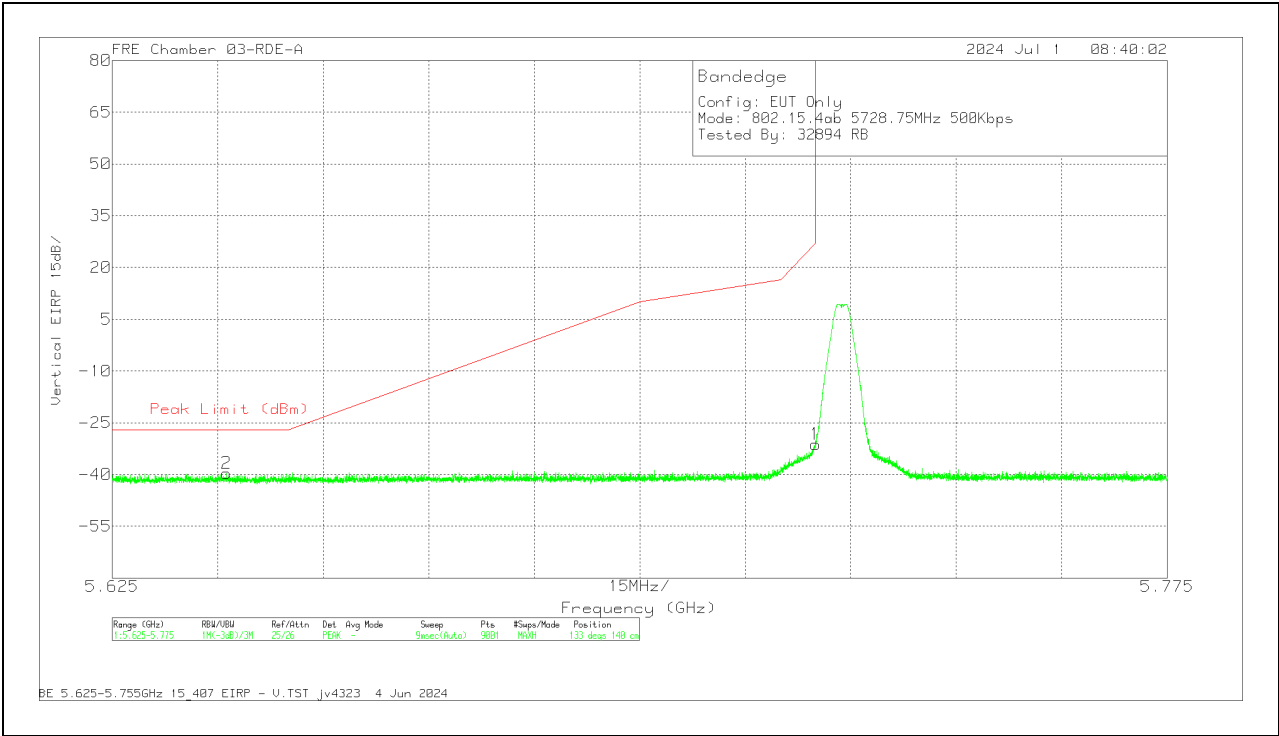
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63695	-47.79	Pk	34.4	11.8	0	-37.34	-38.93	-27	-11.93	221	381	H
1	5.725	-46.51	Pk	34.6	11.8	0	-37.13	-37.24	27	-64.24	221	381	H

Pk - Peak detector

VERTICAL RESULT

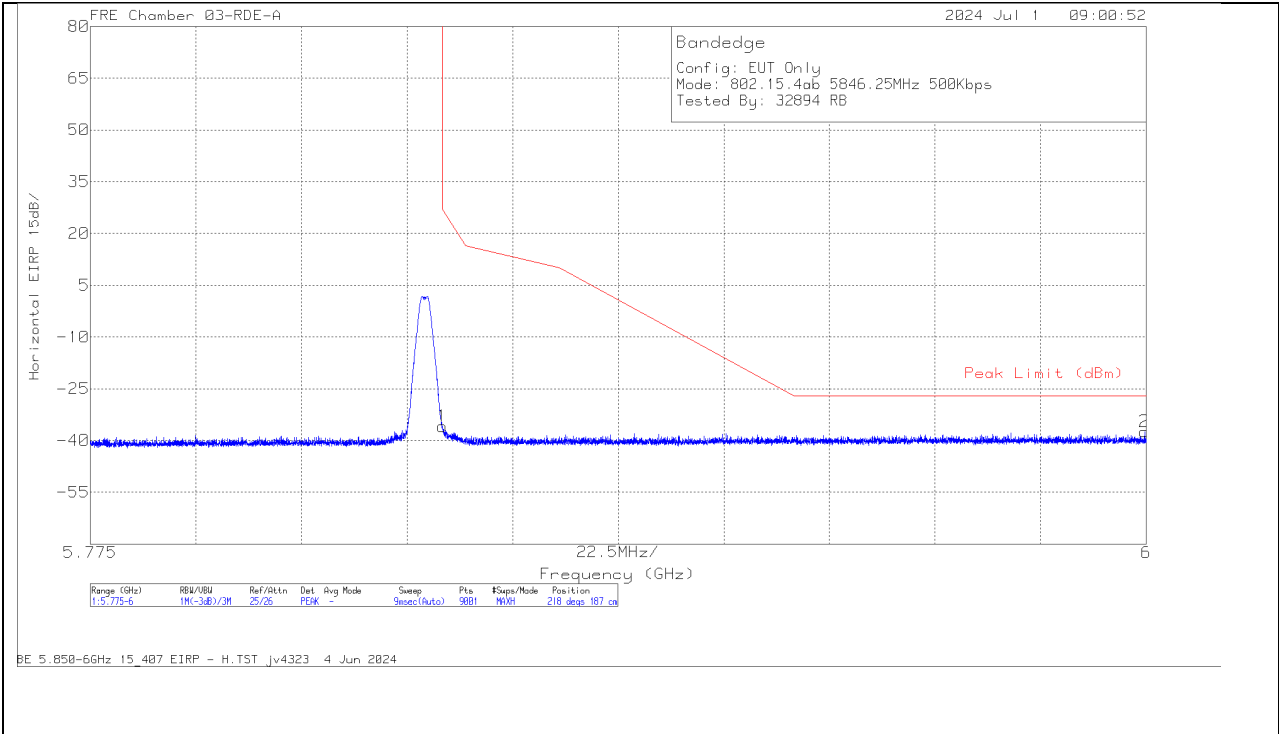


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.641234	-48.49	Pk	34.4	11.8	0	-37.34	-39.63	-27	-12.63	133	140	V
1	5.725	-40.47	Pk	34.6	11.8	0	-37.13	-31.2	27	-58.2	133	140	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

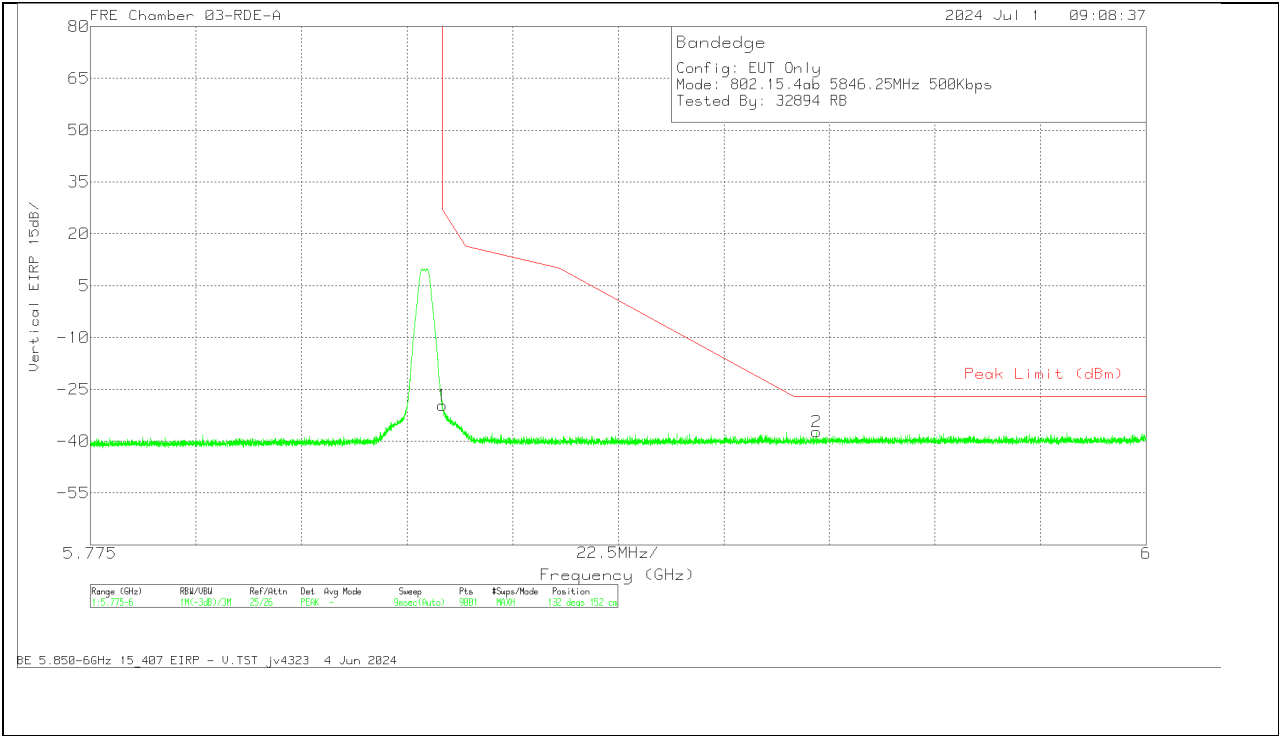
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.82	Pk	35	11.8	0	-36.87	-35.89	-27	-62.89	218	187	H
2	5.99965	-47.92	Pk	35.3	11.8	0	-36.59	-37.41	-27	-10.41	218	187	H

Pk - Peak detector

VERTICAL RESULT

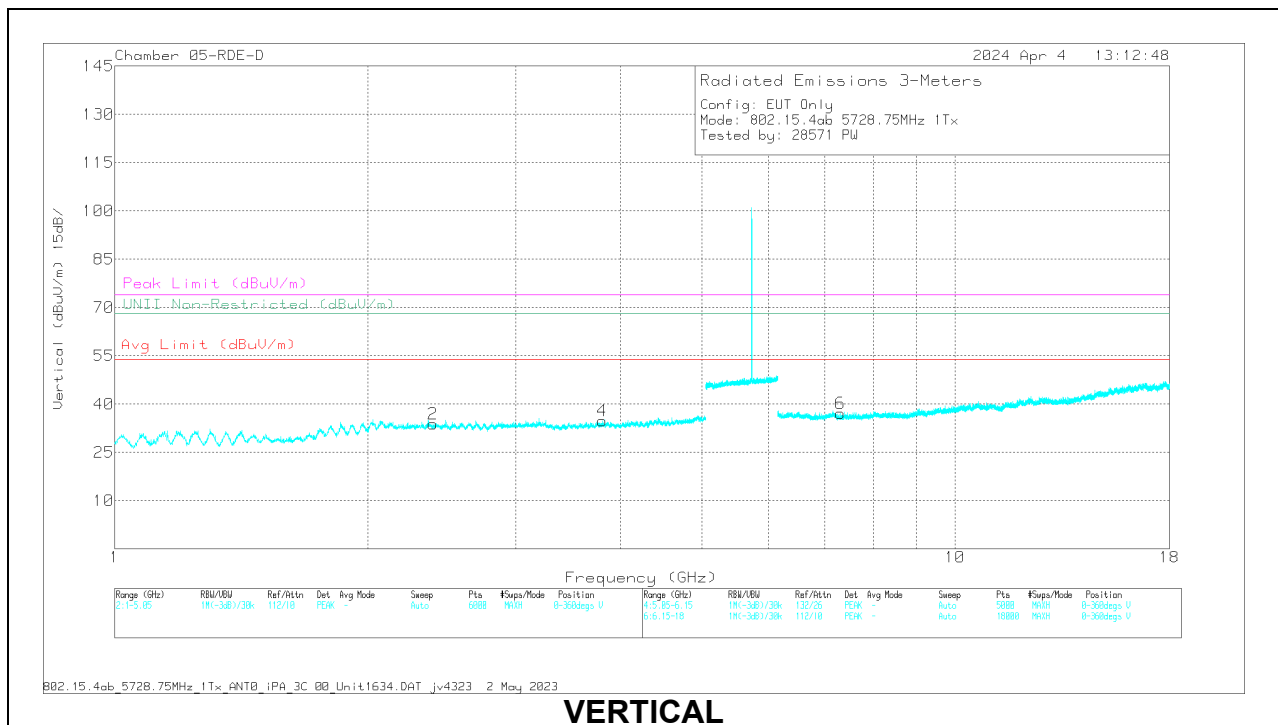
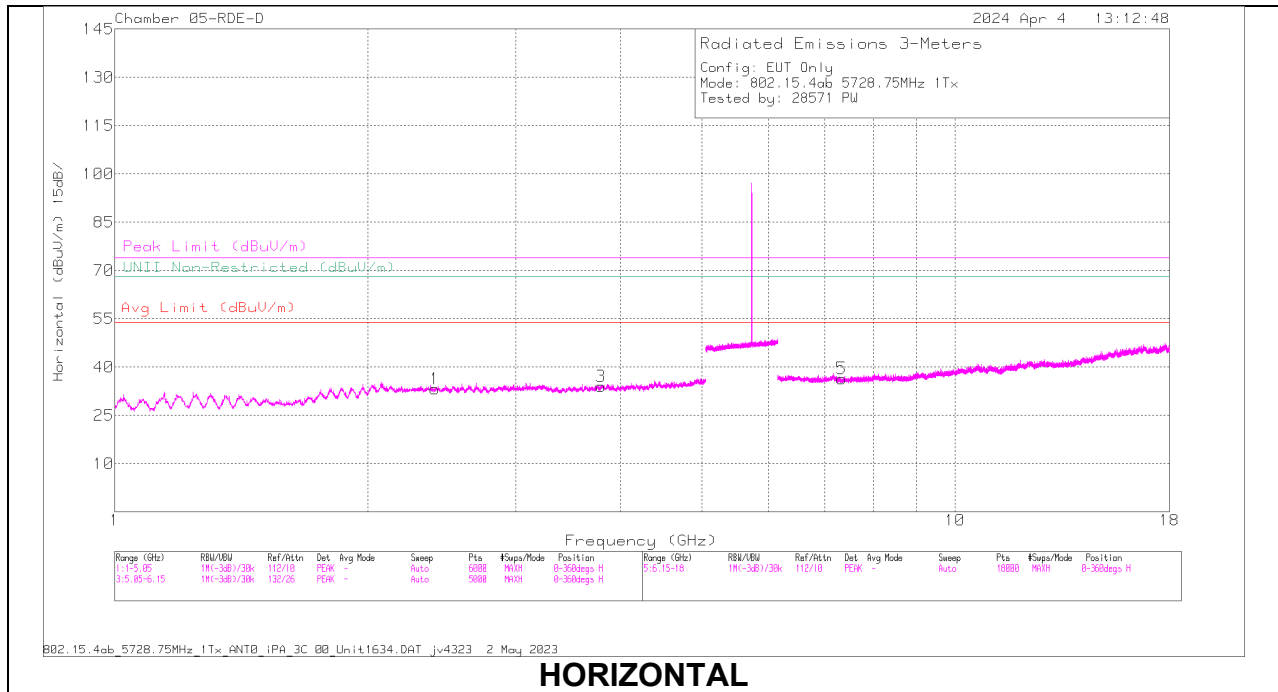


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-39.58	Pk	35	11.8	0	-36.87	-29.65	27	-56.65	132	152	V
2	5.92975	-47.58	Pk	35.2	11.8	0	-36.71	-37.29	-27	-10.29	132	152	V

Pk - Peak detector

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

LOW CHANNEL RESULTS



RADIATED EMISSIONS

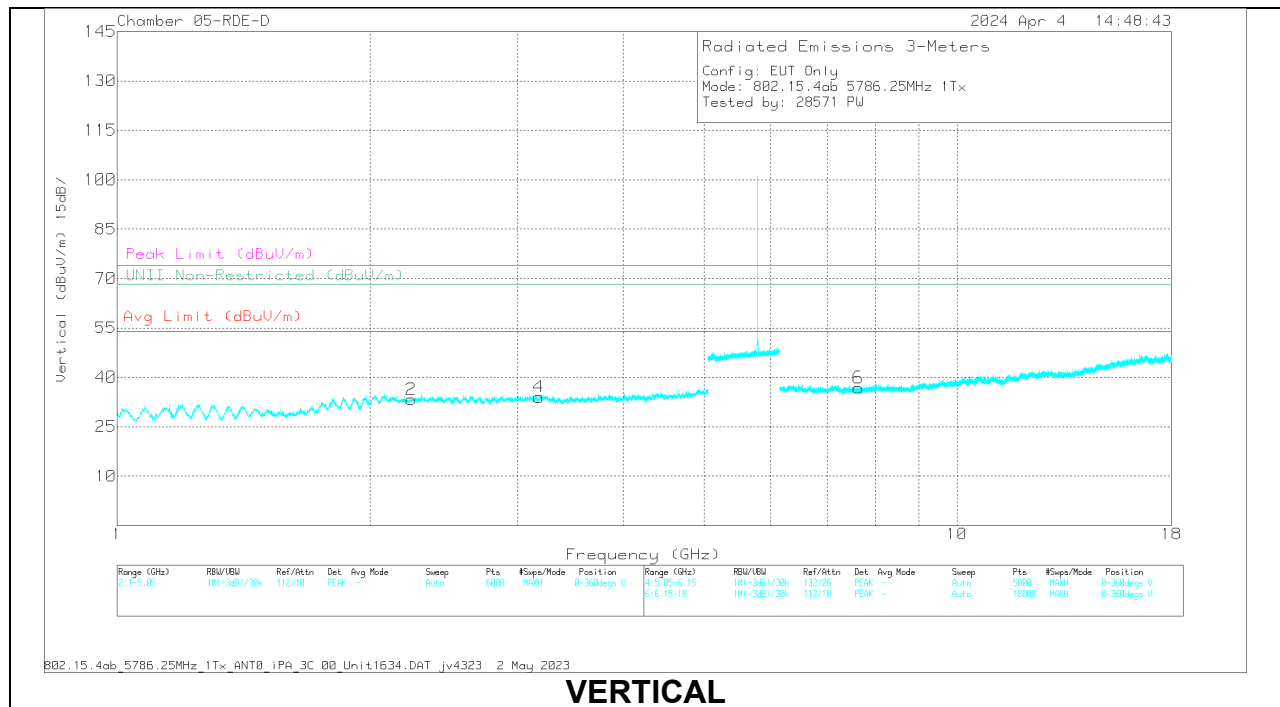
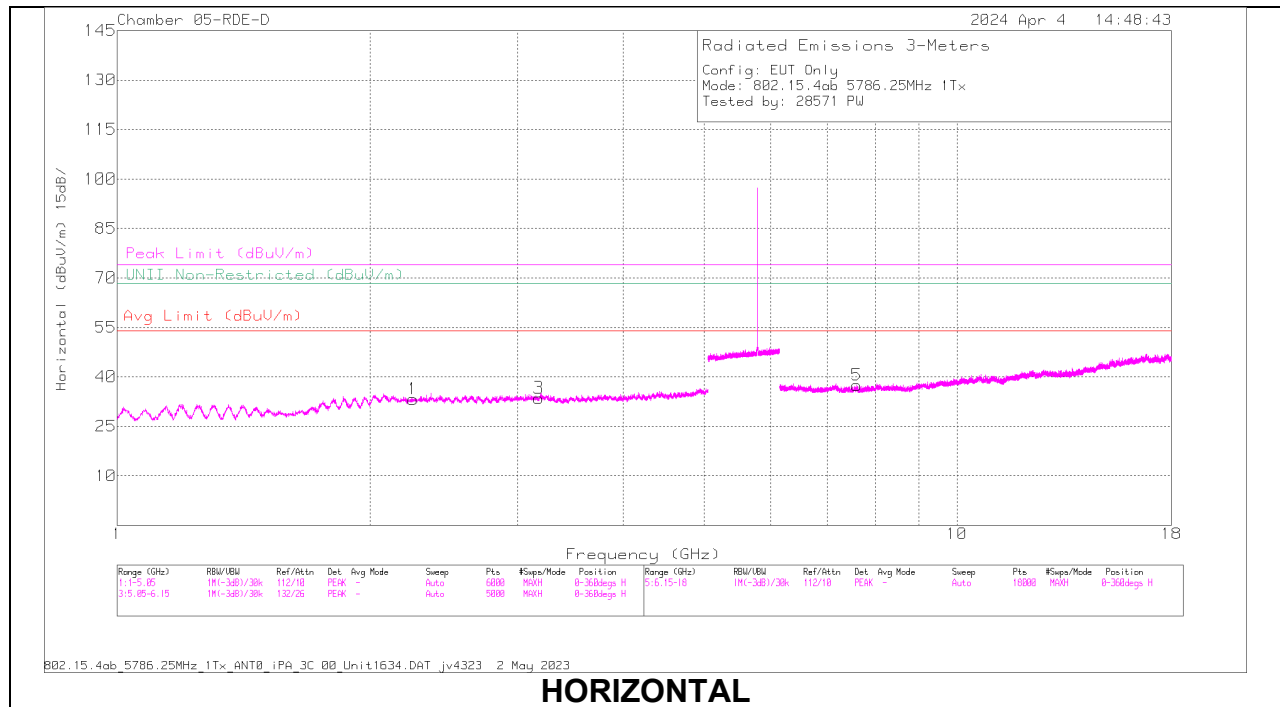
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.393497	61.09	PK-U	32.2	0	-49.65	43.64	-	-	-	-	68.2	-24.56	186	354	V
1	2.405814	61.07	PK-U	32.2	0	-49.6	43.67	-	-	-	-	68.2	-24.53	218	398	H
3	*3.790437	46.28	ADR	33.5	1.17	-47.56	33.39	54	-20.61	-	-	-	-	6	174	H
	*3.791566	58.56	PK-U	33.5	0	-47.56	44.5	-	-	74	-29.5	-	-	6	174	H
4	*3.802012	46.46	ADR	33.5	1.17	-47.6	33.53	54	-20.47	-	-	-	-	61	217	V
	*3.802862	58.59	PK-U	33.5	0	-47.6	44.49	-	-	74	-29.51	-	-	61	217	V
6	*7.29999	45.72	ADR	35.8	1.17	-47	35.69	54	-18.31	-	-	-	-	330	259	V
	*7.303344	57.6	PK-U	35.8	0	-47.03	46.37	-	-	74	-27.63	-	-	330	259	V
5	*7.329061	45.89	ADR	35.8	1.17	-47	35.86	54	-18.14	-	-	-	-	137	326	H
	*7.331457	57.46	PK-U	35.8	0	-46.95	46.31	-	-	74	-27.69	-	-	137	326	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

MID CHANNEL RESULTS



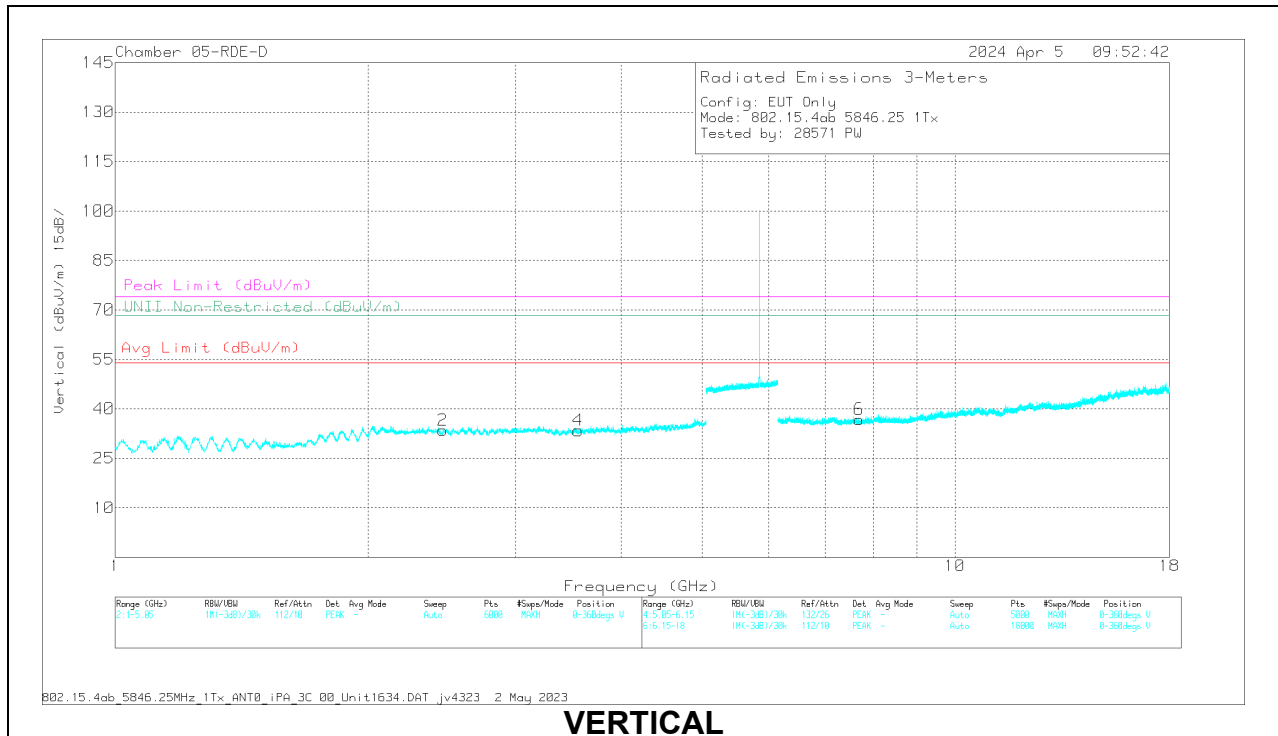
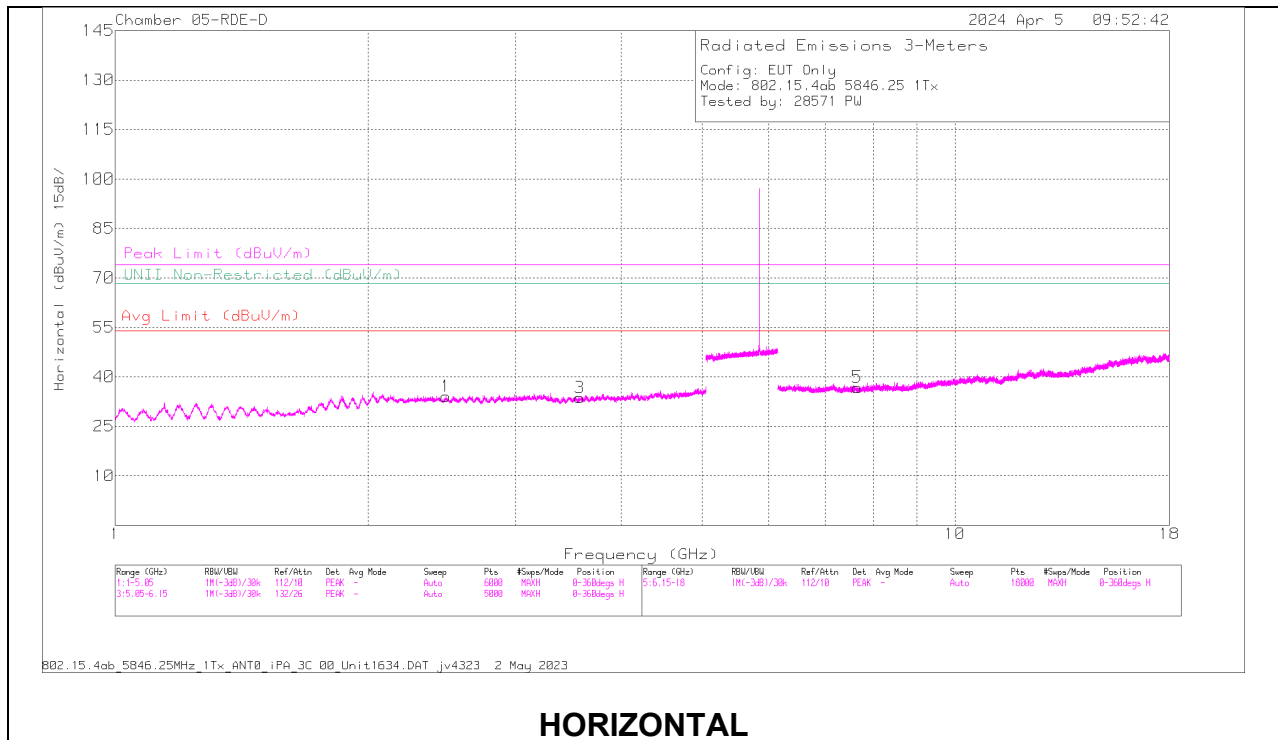
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.239092	61.55	PK-U	32	0	-49.8	43.75	-	-	74	-30.25	-	-	325	208	V
	*2.239873	49.3	ADR	32	1.17	-49.8	32.67	54	-21.33	-	-	-	-	325	208	V
1	*2.248906	62.14	PK-U	31.9	0	-49.8	44.24	-	-	74	-29.76	-	-	356	222	H
	*2.249234	50.05	ADR	31.9	1.17	-49.8	33.32	54	-20.68	-	-	-	-	356	222	H
3	3.172853	68.87	PK-U	33.2	0	-48.1	53.97	-	-	-	-	68.2	-14.23	135	370	H
4	3.177513	58.89	PK-U	33.2	0	-48.05	44.04	-	-	-	-	68.2	-24.16	297	364	V
5	*7.592361	45.44	ADR	35.8	1.17	-46.4	36.01	54	-17.99	-	-	-	-	85	101	H
	*7.592915	57.78	PK-U	35.8	0	-46.4	47.18	-	-	74	-26.82	-	-	85	101	H
6	*7.625915	57.31	PK-U	35.8	0	-46.4	46.71	-	-	74	-27.29	-	-	114	383	V
	*7.628115	45.27	ADR	35.8	1.17	-46.4	35.84	54	-18.16	-	-	-	-	114	383	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

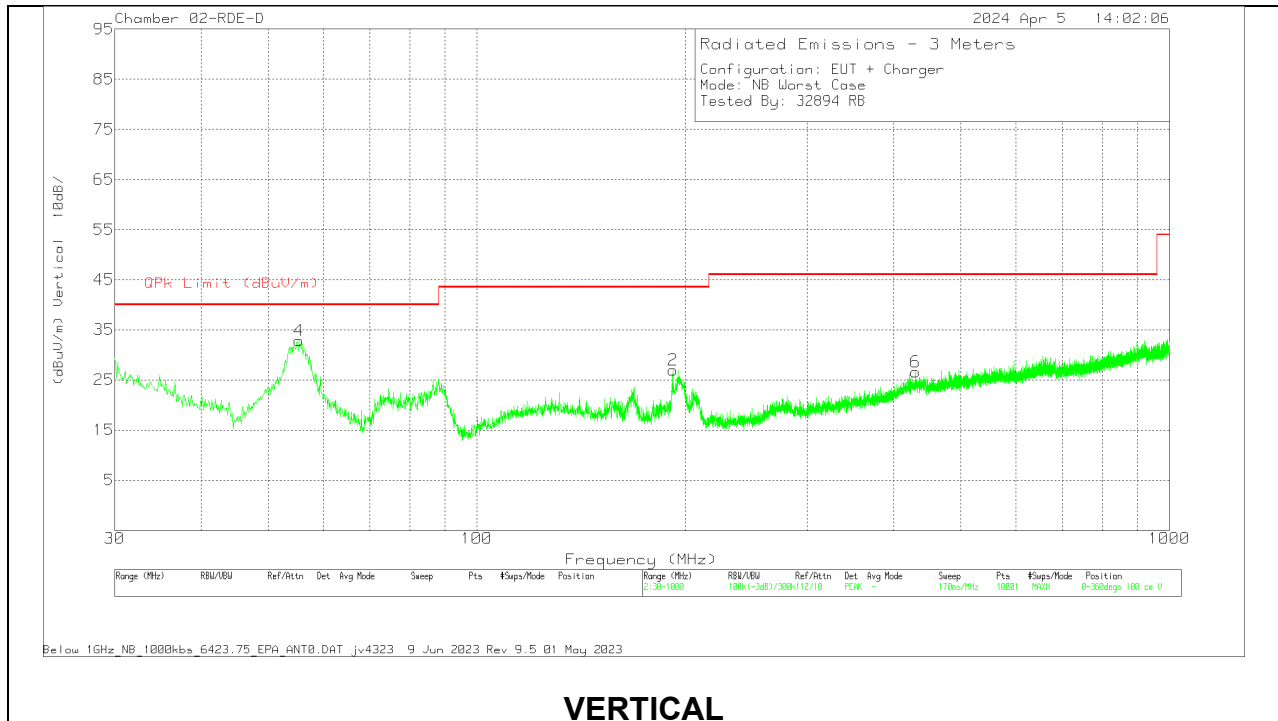
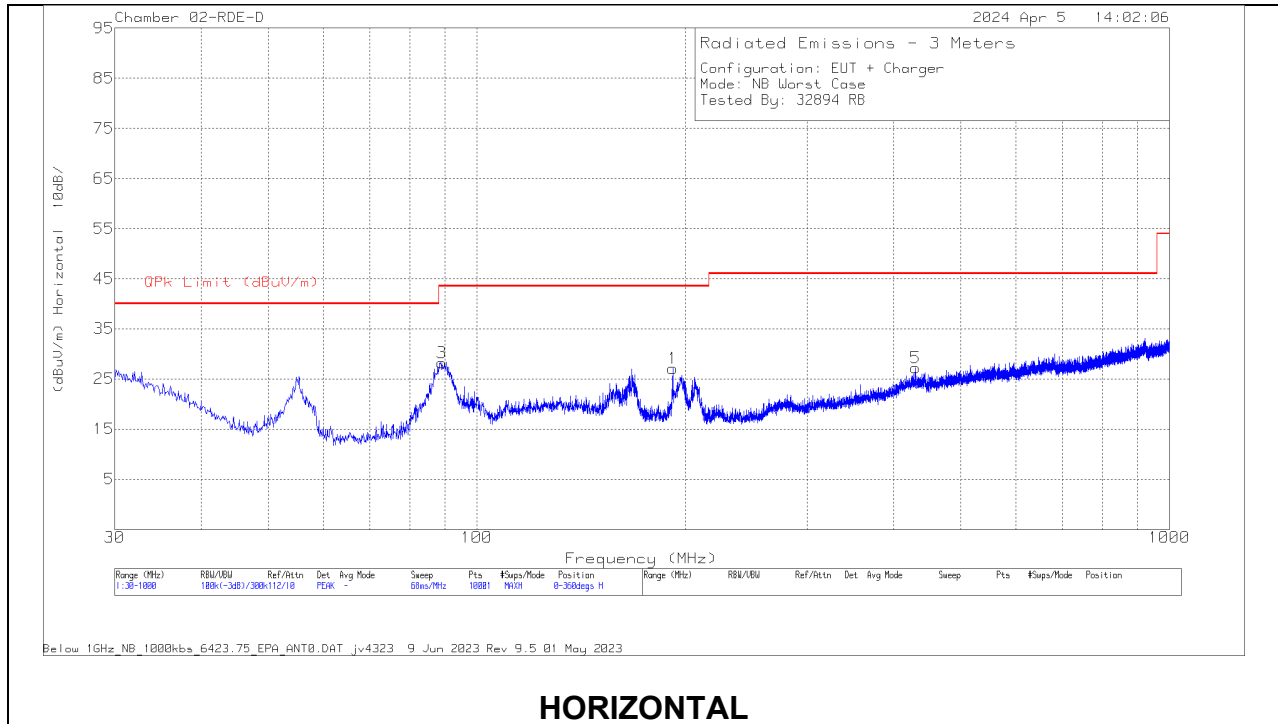
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.453099	48.66	ADR	32.3	1.17	-49.6	32.51	-	-	-	-	-	-	14	308	V
	2.453475	60.98	PK-U	32.3	0	-49.6	43.68	-	-	-	-	68.2	-24.52	14	308	V
1	2.471683	60.78	PK-U	32.3	0	-49.6	43.48	-	-	-	-	68.2	-24.72	61	146	H
	2.472627	49.2	ADR	32.3	1.17	-49.6	33.05	-	-	-	-	-	-	61	146	H
4	3.553973	45.98	ADR	33.1	1.17	-47.5	32.73	54	-21.27	-	-	-	-	274	277	V
	3.555029	57.68	PK-U	33.1	0	-47.5	43.28	-	-	74	-30.72	-	-	274	277	V
3	3.575522	46.18	ADR	33.1	1.17	-47.5	32.93	54	-21.07	-	-	-	-	254	309	H
	3.576394	57.72	PK-U	33.1	0	-47.5	43.32	-	-	74	-30.68	-	-	254	309	H
5	7.645807	45.51	ADR	35.8	1.17	-46.6	35.86	54	-18.14	-	-	-	-	189	265	H
	7.646842	57.32	PK-U	35.8	0	-46.6	46.52	-	-	74	-27.48	-	-	189	265	H
6	7.684216	45.45	ADR	35.8	1.17	-46.7	35.7	54	-18.3	-	-	-	-	327	109	V
	7.685623	57.32	PK-U	35.8	0	-46.7	46.42	-	-	74	-27.58	-	-	327	109	V

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

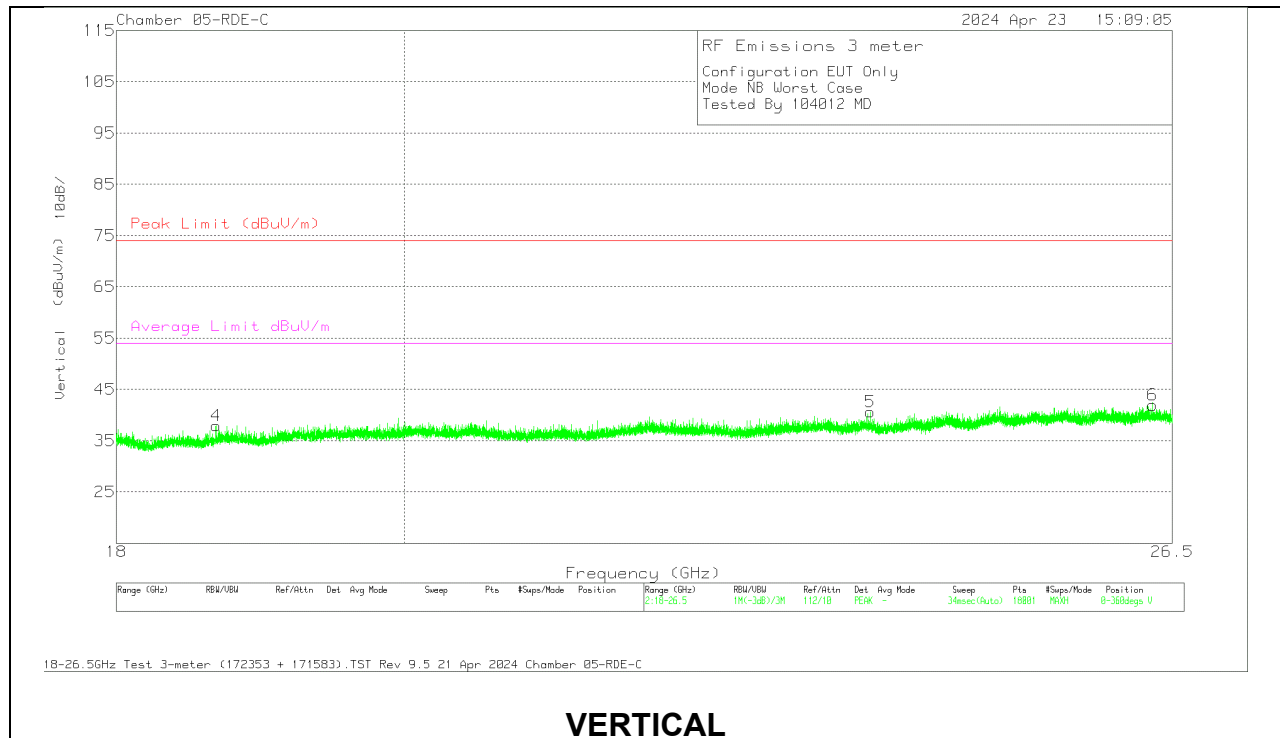
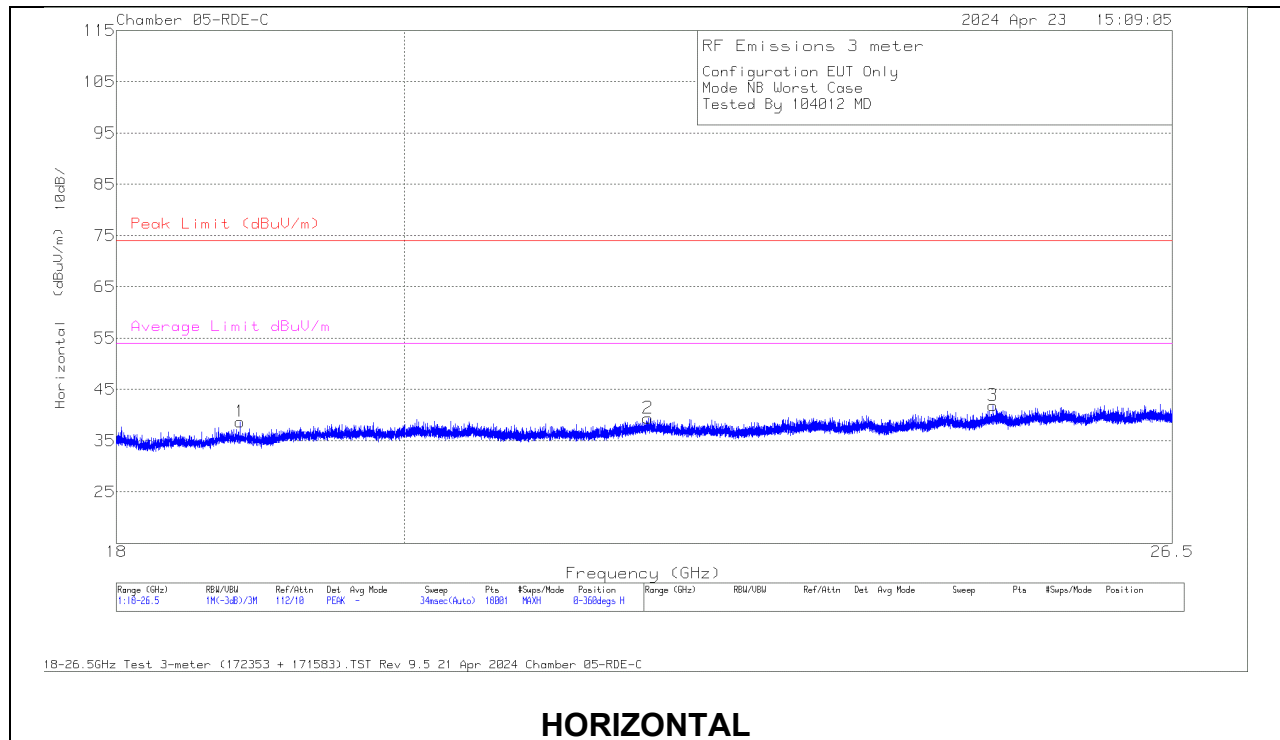
10.2. WORST CASE BELOW 1 GHz



Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	85151 ACF (dB/m)	Cbl(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
4	55.317	50.7	Pk	13.2	-31.1	32.8	40	-7.2	0-360	100	V
3	88.976	45.18	Pk	13.7	-30.7	28.18	43.52	-15.34	0-360	299	H
1	191.796	39.46	Pk	17.4	-29.8	27.06	43.52	-16.46	0-360	98	H
2	191.893	39.43	Pk	17.4	-29.9	26.93	43.52	-16.59	0-360	100	V
5	429.64	33.22	Pk	22.3	-28.3	27.22	46.02	-18.8	0-360	199	H
6	429.834	32.6	Pk	22.3	-28.3	26.6	46.02	-19.42	0-360	199	V

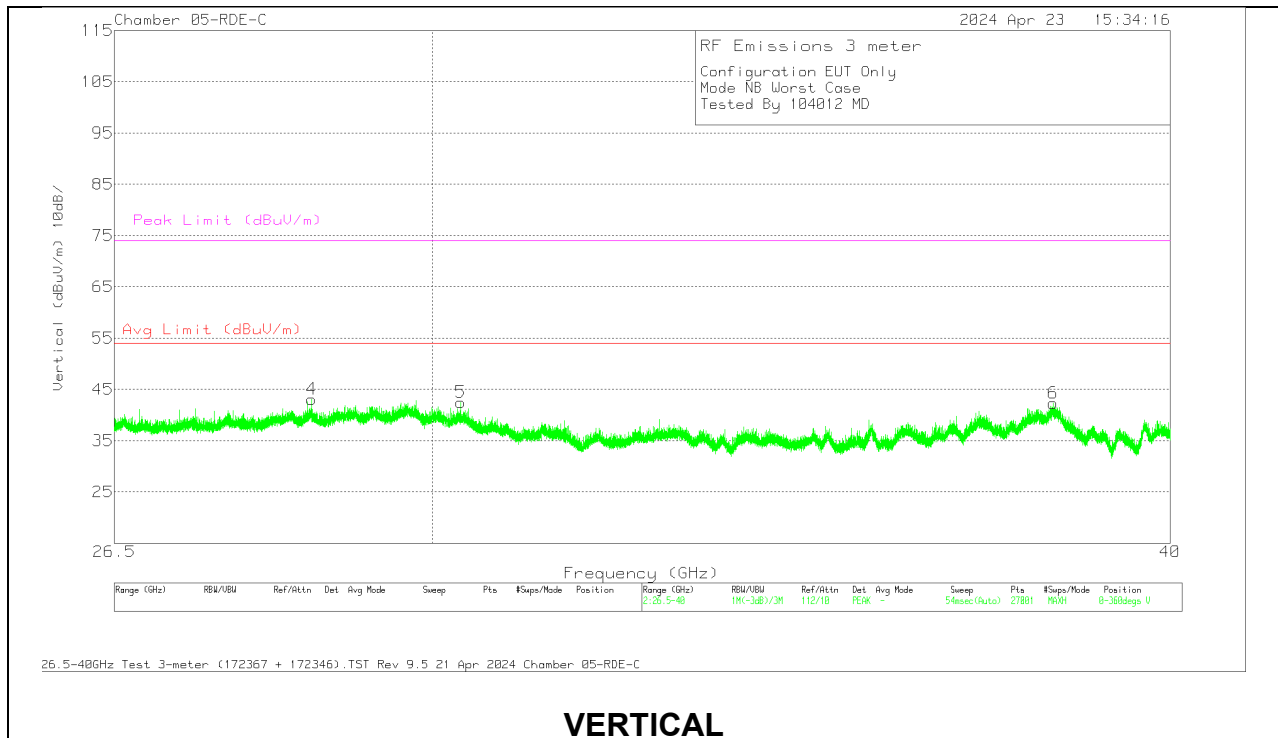
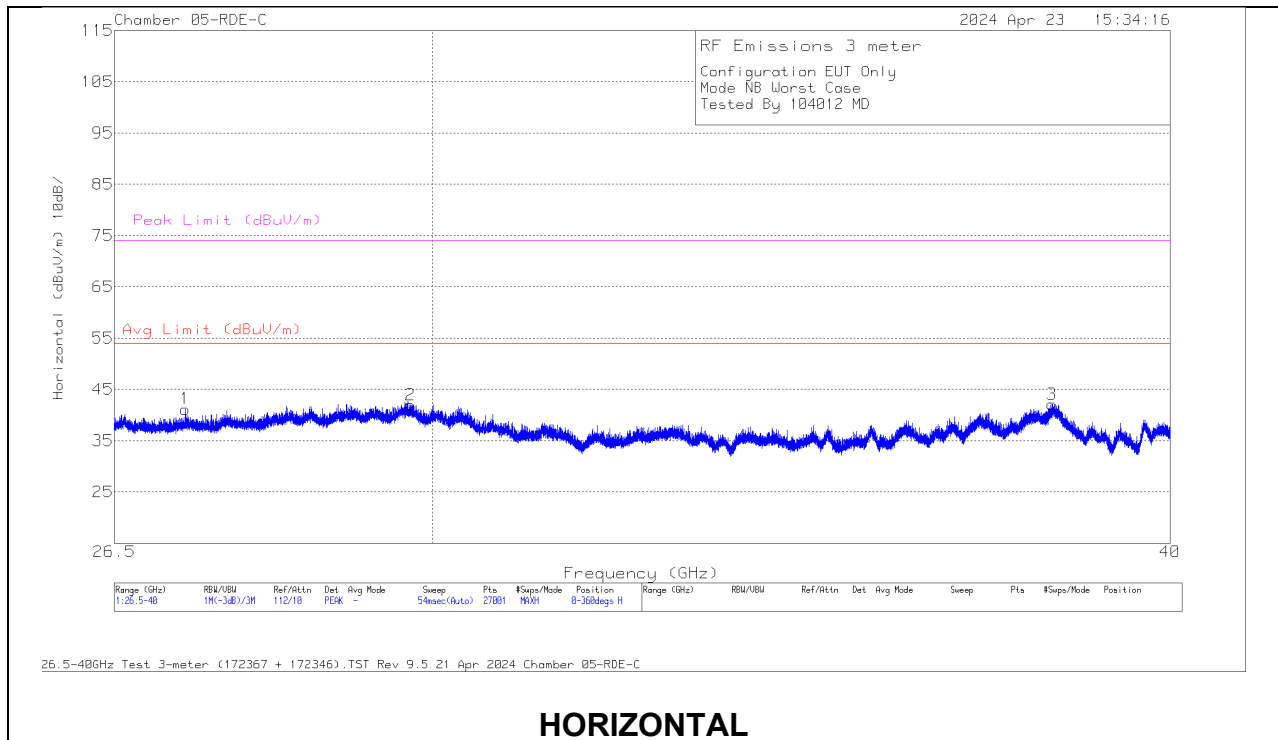
Pk - Peak detector

10.3. WORST CASE 18-26 GHz

18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	172353 ACF (dB/m) - 3mH	171583 Amp Assembly (dB)	Cables (dB)	Corrected Reading (dBUV/m)	Peak Limit (dBUV/m)	PK Margin (dB)	Average Limit dBUV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.670083	58.42	Pk	32.7	-65.8	12.6	37.92	74	-36.08	54	-16.08	0-360	200	V
1	18.836305	58.81	Pk	32.8	-65.5	12.6	38.71	74	-35.29	54	-15.29	0-360	101	H
2	21.870332	57.12	Pk	33.7	-65.1	13.7	39.42	74	-34.58	54	-14.58	0-360	200	H
5	23.723803	57.51	Pk	34.2	-65.4	14.3	40.61	74	-33.39	54	-13.39	0-360	200	V
3	24.816997	56.87	Pk	34.6	-64.3	14.7	41.87	74	-32.13	54	-12.13	0-360	200	H
6	26.309218	55.23	Pk	35.1	-63.5	15.1	41.93	74	-32.07	54	-12.07	0-360	200	V

Pk - Peak detector

10.4. WORST CASE 26-40 GHz

26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172367 ACF (dB/m) - 3mH	172346 Amp Assembly (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	27.2455	58.27	Pk	36	-68.5	15.4	41.17	54	-12.83	74	-32.83	0-360	101	H
4	28.622	57	Pk	36.5	-66.1	15.7	43.1	54	-10.9	74	-30.9	0-360	200	V
2	29.7455	54.87	Pk	36.7	-65.7	16.1	41.97	54	-12.03	74	-32.03	0-360	200	H
5	30.3345	55.9	Pk	36.5	-66	16.1	42.5	54	-11.5	74	-31.5	0-360	101	V
3	38.196	55.36	Pk	38.5	-70.2	18.4	42.06	54	-11.94	74	-31.94	0-360	101	H
6	38.213	55.5	Pk	38.5	-70.2	18.5	42.3	54	-11.7	74	-31.7	0-360	200	V

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.

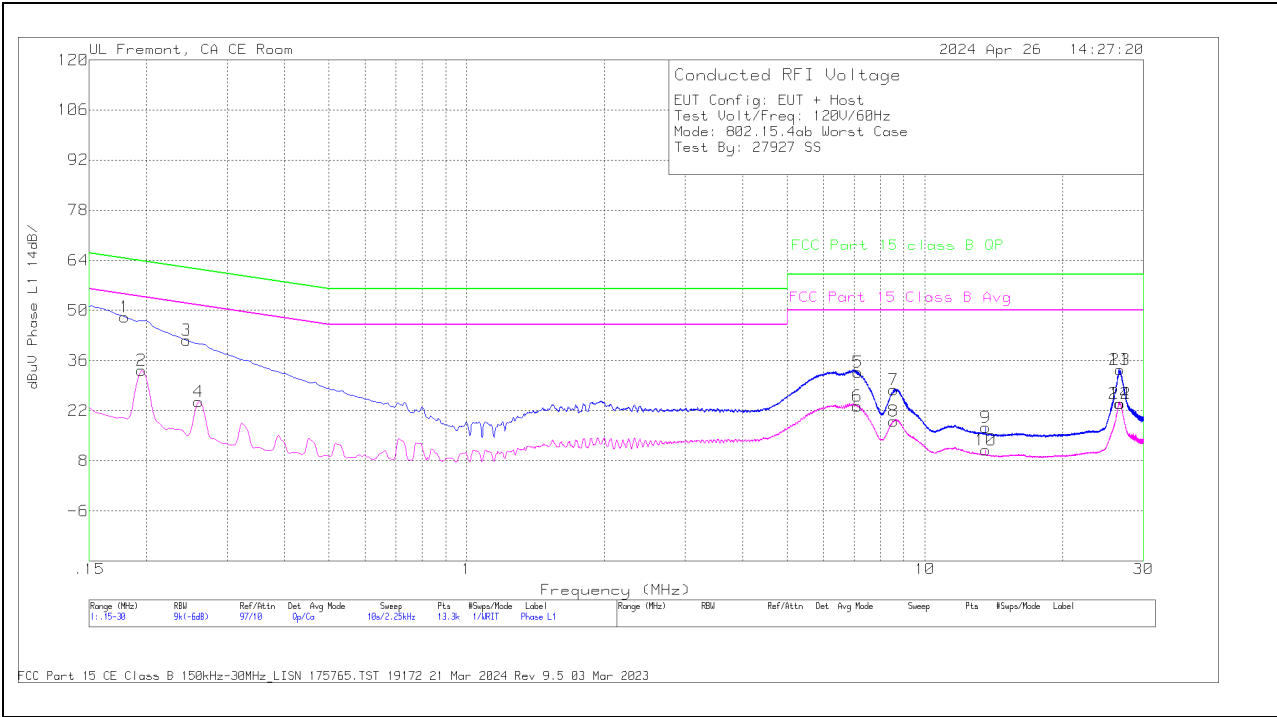
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line WITH LAPTOP

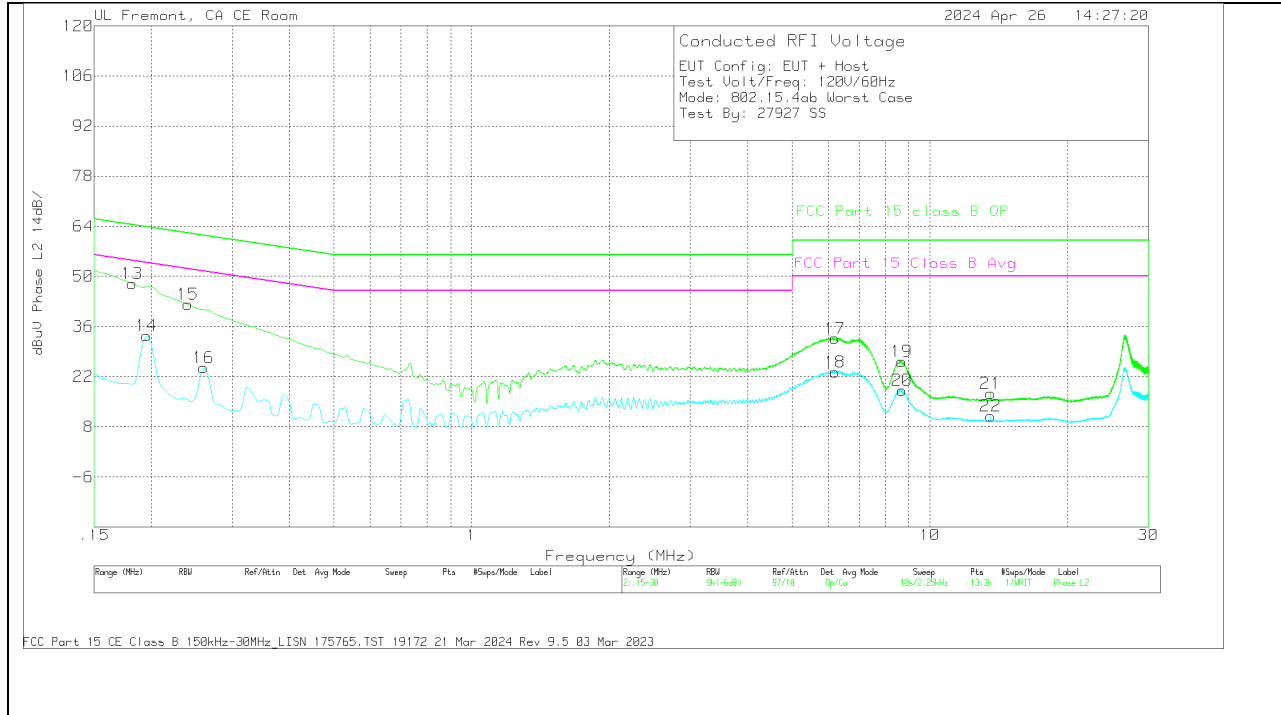
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz													
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	DCCF (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
2	.195	9.96	Ca	.1	.1	9.4	10	3.67	33.23	53.82	-20.59	-	-
4	.2603	1.49	Ca	0	0	9.4	10	3.67	24.56	51.42	-26.86	-	-
6	7.125	0	Ca	.2	0	9.4	10	3.67	23.27	50	-26.73	-	-
8	8.5493	-4.18	Ca	.2	0	9.4	10	3.67	19.09	50	-30.91	-	-
10	13.56	-12.52	Ca	.3	.1	9.5	10	3.67	11.05	50	-38.95	-	-
12	26.6775	.35	Ca	.4	.2	9.4	10	3.67	24.02	50	-25.98	-	-
24	26.646	.44	Ca	.3	.2	9.4	10	3.67	24.01	50	-25.99	-	-
1	.1793	24.93	Qp	.1	.1	9.4	10	3.67	48.2	-	-	64.52	-16.32
3	.2445	18.6	Qp	0	0	9.4	10	3.67	41.67	-	-	61.94	-20.27
5	7.1498	9.62	Qp	.2	0	9.3	10	3.67	32.79	-	-	60	-27.21
7	8.5448	4.51	Qp	.2	0	9.4	10	3.67	27.78	-	-	60	-32.22
9	13.56	-6.23	Qp	.3	.1	9.5	10	3.67	17.34	-	-	60	-42.66
11	26.655	9.82	Qp	.3	.2	9.4	10	3.67	33.39	-	-	60	-26.61
23	26.655	9.82	Qp	.3	.2	9.4	10	3.67	33.39	-	-	60	-26.61

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz													
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	DCCF (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
14	.195	10.3	Ca	.1	0	9.4	10	3.67	33.47	53.82	-20.35	-	-
16	.2603	1.43	Ca	0	0	9.4	10	3.67	24.5	51.42	-26.92	-	-
18	6.2093	.07	Ca	.1	0	9.4	10	3.67	23.24	50	-26.76	-	-
20	8.6955	-4.85	Ca	.1	0	9.3	10	3.67	18.22	50	-31.78	-	-
22	13.56	-12.53	Ca	.2	.1	9.5	10	3.67	10.94	50	-39.06	-	-
13	.1815	24.79	Qp	.1	0	9.4	10	3.67	47.96	-	-	64.42	-16.46
15	.24	19.09	Qp	0	0	9.4	10	3.67	42.16	-	-	62.1	-19.94
17	6.2093	9.49	Qp	.1	0	9.4	10	3.67	32.66	-	-	60	-27.34
19	8.6798	3.12	Qp	.1	0	9.3	10	3.67	26.19	-	-	60	-33.81
21	13.56	-6.22	Qp	.2	.1	9.5	10	3.67	17.25	-	-	60	-42.75

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line WITH AC/DC Adapter

LINE 1 RESULTS

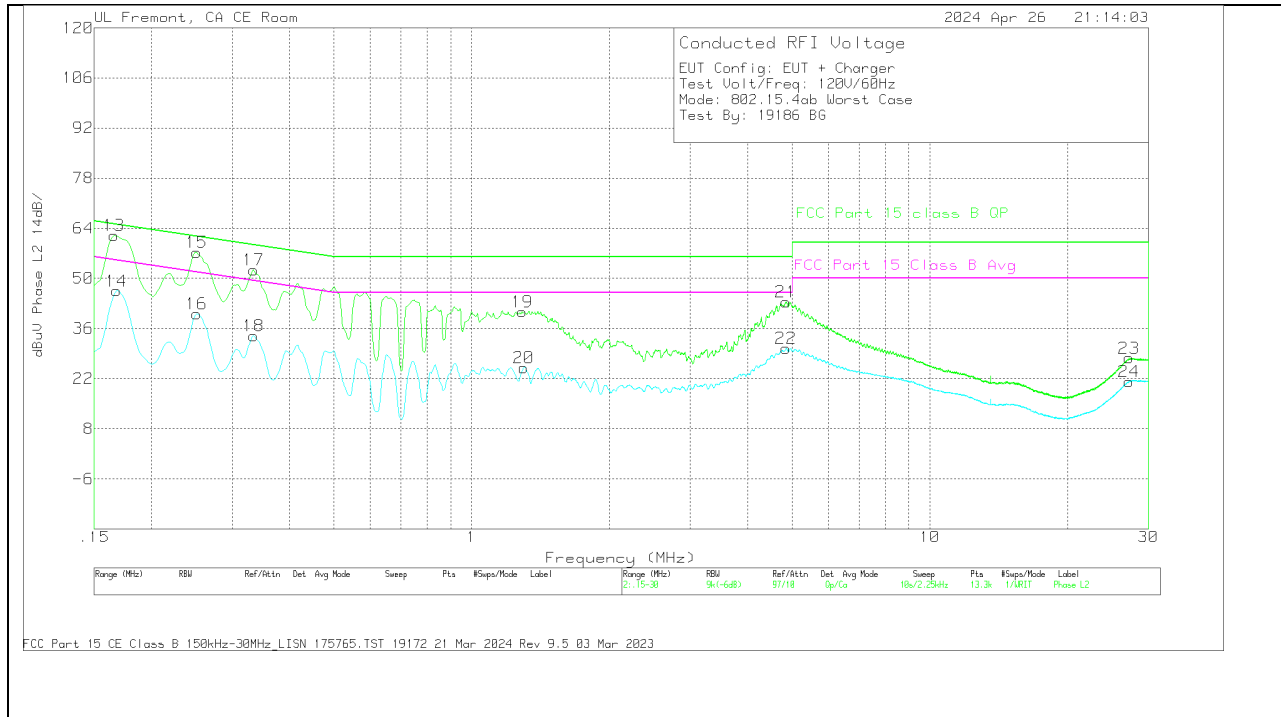


Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
2	.1703	28.02	Ca	0	.1	9.5	10	47.62	54.95	-7.33	-	-
4	.249	20.96	Ca	0	0	9.4	10	40.36	51.79	-11.43	-	-
6	.3345	15.14	Ca	0	0	9.4	10	34.54	49.34	-14.8	-	-
8	1.3043	5.64	Ca	0	0	9.4	10	25.04	46	-20.96	-	-
10	4.866	9.04	Ca	.2	0	9.4	10	28.64	46	-17.36	-	-
12	27.4628	1.9	Ca	.3	.2	9.4	10	21.8	50	-28.2	-	-
1	.1658	43.96	Qp	0	.1	9.5	10	63.56	-	-	65.17	-1.61
3	.2243	38.99	Qp	.1	0	9.4	10	58.49	-	-	62.66	-4.17
5	.3345	33.55	Qp	0	0	9.4	10	52.95	-	-	59.34	-6.39
7	1.2885	20.38	Qp	0	0	9.4	10	39.78	-	-	56	-16.22
9	4.8638	22.47	Qp	.2	0	9.4	10	42.07	-	-	56	-13.93
11	27.483	8.17	Qp	.3	.2	9.4	10	28.07	-	-	60	-31.93

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
14	.168	26.89	Ca	0	.1	9.5	10	46.49	55.06	-8.57	-	-
16	.2513	20.66	Ca	0	0	9.4	10	40.06	51.72	-11.66	-	-
18	.3345	14.41	Ca	.1	0	9.4	10	33.91	49.34	-15.43	-	-
20	1.2998	5.69	Ca	0	0	9.4	10	25.09	46	-20.91	-	-
22	4.8548	10.93	Ca	.2	0	9.4	10	30.53	46	-15.47	-	-
24	27.1973	1.21	Ca	.3	.2	9.5	10	21.21	50	-28.79	-	-
13	.1658	42.42	Qp	0	.1	9.5	10	62.02	-	-	65.17	-3.15
15	.2513	37.83	Qp	0	0	9.4	10	57.23	-	-	61.72	-4.49
17	.3345	32.83	Qp	.1	0	9.4	10	52.33	-	-	59.34	-7.01
19	1.2885	21.3	Qp	0	0	9.4	10	40.7	-	-	56	-15.3
21	4.857	23.88	Qp	.2	0	9.4	10	43.48	-	-	56	-12.52
23	27.2108	7.74	Qp	.3	.2	9.5	10	27.74	-	-	60	-32.26

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 14982479-EP1V1 FCC IC for setup photos

END OF TEST REPORT