

TEST REPORT

Report Number: 14982484-E7V2

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

Model : A3081

Brand : APPLE

FCC ID : BCG- E8688A

IC : 579C- E8688A

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:
2024/08/17

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REPORT REVISION HISTORY

Rev.		Issue Date		Revisions		Revised By
V1		2024/07/14		Initial Review		Chris Xiong
V2		2024/08/17		Addressed TCB Questions		Chris Xiong

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3081
Brand	APPLE
FCC ID	BCG-E8688A
IC	579C-E8688A
EUT Description	SMARTPHONE
Serial Number	C07H5X000700000FGP, V7QCNQFGF0, WXWQLPF6GQ
Sample Receipt Date	2024/01/01
Date Tested	2024/01/26 to 2024/07/13
Applicable Standards	CFR 47 Part 15 Subpart E ISED RSS-247 Issue 3 ISED RSS-GEN Issue 5 + A1 + A2
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. 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 By:	Prepared & Reviewed By:
	
Francisco de Anda Staff Engineer UL Verification Services, Inc.	Chris Xiong Senior Test Engineer 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 6.2)
2. Cable loss (see section 6.2)

FCC	ISED Clause	Requirement	Result	Comment
See 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
5.407 (e)	RSS-247 6.2.4.1	6 dB BW	Complies	None.
15.407 (a) (1 & 3)	RSS-247 6.2	Output Power	Complies	None.
15.407 (a) (1 & 3)	RSS-247 6.2	PSD	Complies	None.
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2.1.2	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 CFR 47 Part 2
- FCC CFR 47 Part 15
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 644545 D03 v01
- ANSI C63.10-2020
- KDB 414788 D01 Radiated Test Site v01r01
- FCC KDB 789033 D02 v02r01
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 3

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	0.45 (Ave) 1.30 (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.20%
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), Wireless Power Transfer (WPT) 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. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Type is IFA.

The antennas' gains, as provided by the manufacturer, are as follows:

Frequency Range (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII-1	-4.80	-5.00	-4.90	-1.89
5725 - 5825 UNII-3	-0.20	-2.30	-1.12	1.82

Frequency Range (MHz)	Cable Loss	
	Antenna 6 (dB)	Antenna 5 (dB)
5150 - 5250 UNII-1	3.20	2.98
5725 - 5825 UNII-3	3.20	2.98

The SMA cable loss was used for RF antenna port tests that had been offset to the test equipment during testing.

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was 2219.0.0.100.1~40.74.46.

6.4. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.2 GHz BAND

Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Output Power (mW)
5162 - 5245 (UNII-1)	BDR	ANT 6	High Power	9.88	9.73
			Low Power	6.40	4.37
		ANT 5	High Power	9.84	9.64
			Low Power	4.86	3.06
		ANT 6 + ANT 5 TXBF	High Power	9.84	9.64
			Low Power	8.67	7.36
	HDR 4	ANT 6	High Power	11.34	13.61
			Low Power	-0.17	0.96
		ANT 5	High Power	11.29	13.46
			Low Power	-1.77	0.67
		ANT 6 + ANT 5 TXBF	High Power	11.40	13.80
			Low Power	2.16	1.64
	HDR 8	ANT 6	High Power	13.87	24.38
			Low Power	-0.11	0.97
		ANT 5	High Power	13.87	24.38
			Low Power	-1.70	0.68
		ANT 6 + ANT 5 TXBF	High Power	13.84	24.21
			Low Power	2.12	1.63

5.2 GHz BAND (ISED)

Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Antenna Gain (dBi)	Output Power (EIRP) (mW)
5162 - 5245 (UNII-1)	BDR	ANT 6	High Power	13.33	-4.80	7.13
			Low Power	6.40	-4.80	1.45
		ANT 5	High Power	13.80	-5.00	7.59
			Low Power	4.86	-5.00	0.97
		ANT 6 + ANT 5 TXBF	High Power	10.61	-1.89	7.45
			Low Power	8.67	-1.89	4.76
	HDR 4	ANT 6	High Power	14.29	-4.80	8.89
			Low Power	-0.17	-4.80	0.32
		ANT 5	High Power	14.35	-5.00	8.61
			Low Power	-1.77	-5.00	0.21
		ANT 6 + ANT 5 TXBF	High Power	12.60	-1.89	11.78
			Low Power	2.16	-1.89	1.06
	HDR 8	ANT 6	High Power	14.39	-4.80	9.10
			Low Power	-0.11	-4.80	0.32
		ANT 5	High Power	14.40	-5.00	8.71
			Low Power	-1.70	-5.00	0.21
		ANT 6 + ANT 5 TXBF	High Power	14.56	-1.89	18.49
			Low Power	2.12	-1.89	1.05

5.8 GHz BAND

Frequency Range (MHz)	Mode	Antenna	Configuration	Output Power (dBm)	Output Power (mW)
5733 - 5844 (UNII-3)	BDR	ANT 6	High Power	14.32	27.04
			Low Power	6.82	4.81
		ANT 5	High Power	14.35	27.23
			Low Power	5.35	3.43
		ANT 6 + ANT 5 TXBF	High Power	17.31	53.83
			Low Power	9.11	8.15
	HDR 4	ANT 6	High Power	14.33	27.10
			Low Power	0.40	1.10
		ANT 5	High Power	14.34	27.16
			Low Power	-1.18	0.76
		ANT 6 + ANT 5 TXBF	High Power	17.32	53.95
			Low Power	2.67	1.85
	HDR 8	ANT 6	High Power	14.38	27.42
			Low Power	0.34	1.08
		ANT 5	High Power	14.29	26.85
			Low Power	-1.23	0.75
		ANT 6 + ANT 5 TXBF	High Power	17.33	54.08
			Low Power	2.62	1.83

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations X (Flatbed), Y (Landscape) and Z (Portrait) on ANT 6, ANT 5 and 2TX Beamforming mode. It was determined that Y (Landscape) was the worst-case orientation for both ANT 6, ANT 5 and 2TX Beamforming Mode.

2TX Beamforming modes was used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based on among all the modes. For testing purposes, 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 2TX Beamforming mode with power setting to the maximum level among FCC/ISED SISO modes as worst-case scenario.

Below 30MHz, 30-1000MHz emissions spurious tests were performed with EUT connected to AC power adapter and set EUT on X-orientation as the worst case; and for 18-40GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, tests were investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

For simultaneous transmission of multiple channels in the Wi-Fi 2.4GHz and NB UNII 5GHz bands, no noticeable emission was found.

6.6. DESCRIPTION OF TEST SETUP

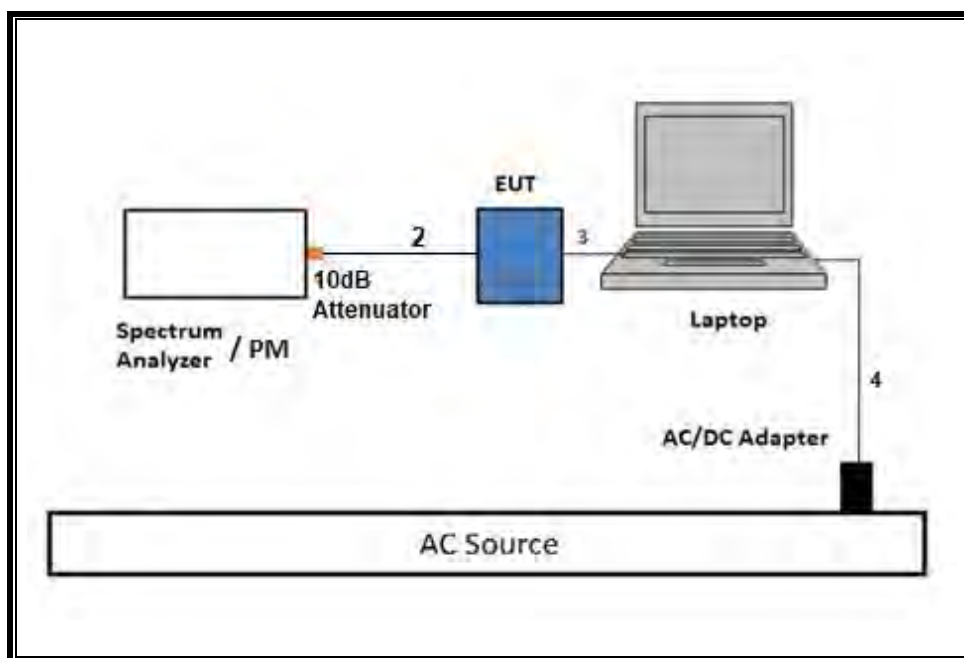
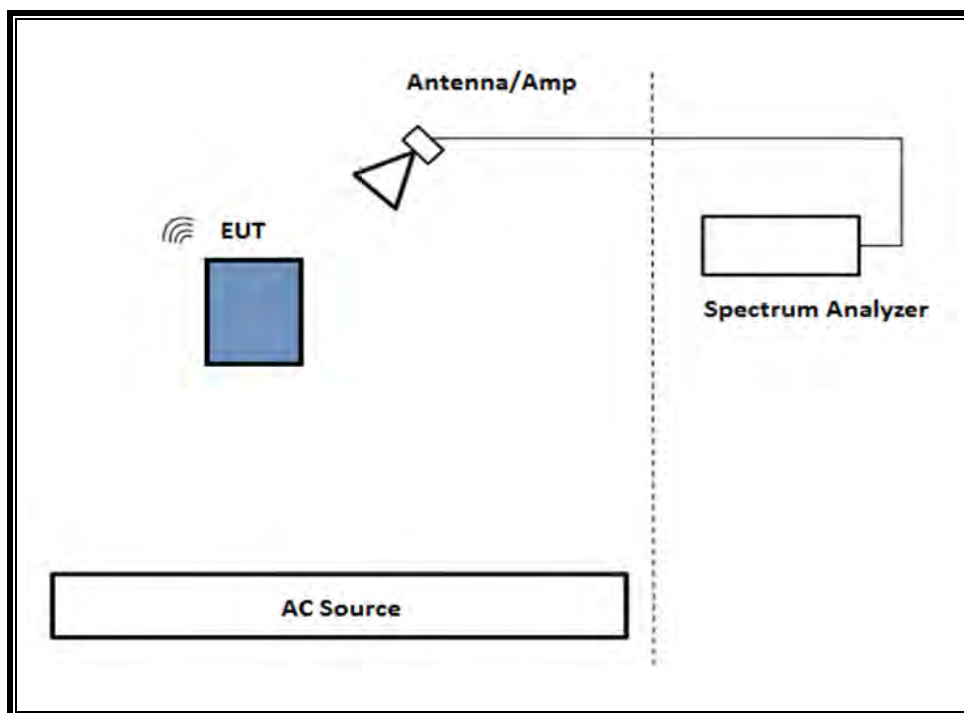
SUPPORT TEST EQUIPMENT				
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC
Laptop	Apple	MacBook Pro	C02VD7SAHV22	BCGA1708
Laptop AC/DC adapter	Liteon Technology	A1424	NSW25679	DoC
EUT AC/DC adapter	Apple	A1720	C3D8417A7R93KVP8	DoC

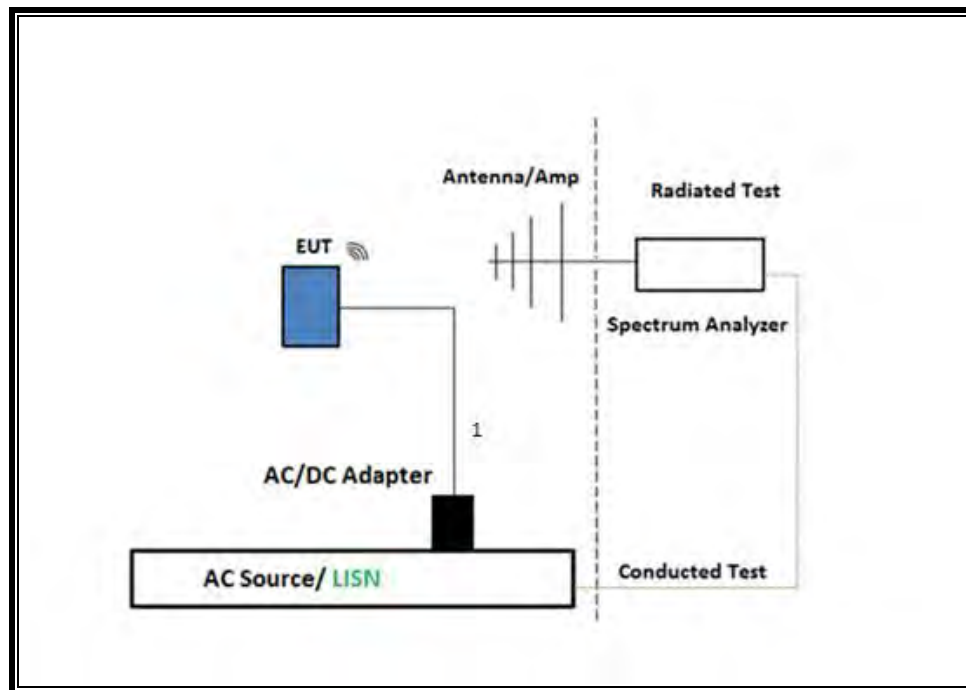
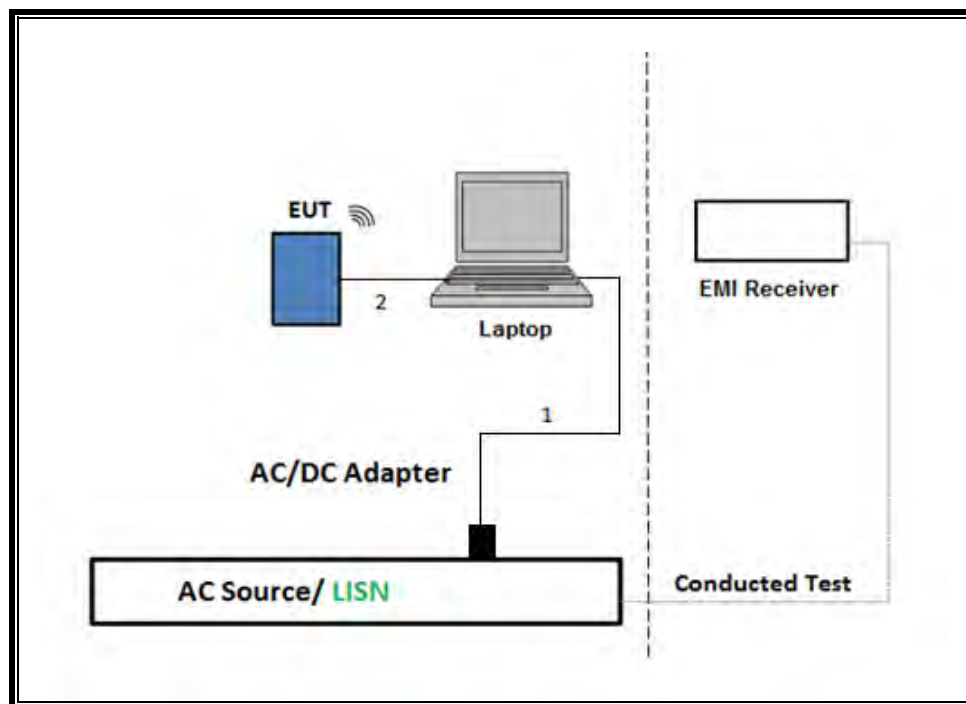
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Un-shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	AC	1	AC	Un-shielded	2	N/A

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	AC	1	AC	Un-shielded	2	N/A
2	USB	1	USB	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 (1 GHz – 40 GHz)**

SETUP DIAGRAM FOR RADIATED TESTS (30-1000MHz) and AC LINE CONDUCTED TEST**SETUP DIAGRAM FOR AC LINE CONDUCTED TEST (LAPTOP CONFIGURATION)**

7. 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
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2025/02/28
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236353	2024/08/31
10dB Fixed Attenuator, Up to 26GHz	Pasternack Enterprises	PE7087-10	236285	2024/08/31
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
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169937	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200896	2025/04/24
RF Filter Box, 1-18GHz, 12 Ports	UL-FR1	Frankenstein	231874	2024/08/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223461	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206807	2025/02/29
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	230878	2025/03/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230547	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226673	2025/02/28
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231874	2024/08/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	170063	2024/11/30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	230300	2025/01/31
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231875	2024/08/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235670	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	223084	2024/10/31
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225079	2025/04/30
Antenna, BroadBand Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	232075	2025/03/31
Link File, @3m, 9kHz-1000MHz Hybrid Path Loss	UL-FR1	Port 0 Factors	211062	2025/03/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2025/02/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	223083	2024/10/31
RF Filter Box, 1-18GHz, 7 port Simplified	UL-FR1	F3A, 3Amplifier, Rats3 simplified	243707	2025/02/22
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172354	2024/11/03
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172369	2024/11/30
RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2025/03/31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2024/08/31
*Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2024/07/31
*Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	170015	2024/07/31
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	170648	2025/03/31

AC LINE CONDUCTED				
Description	Manufacturer	Model	ID Number	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, May 1, 2023	
Conducted Software	UL	UL EMC	2024.2.23	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023	

* Testing was completed before equipment calibration date

8. MEASUREMENT METHODS

TEST ITEM	TEST 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, Section 6.2
Radiated Spurious Emissions Below 30MHz	ANSI C63.10 Section 6.4

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

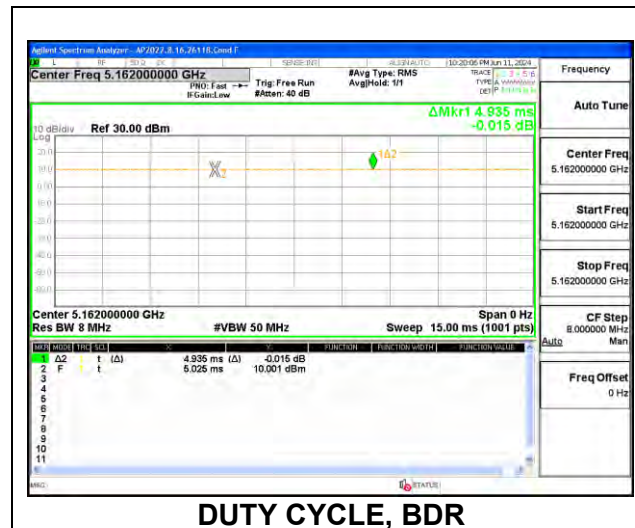
ANSI C63.10, Section 12.2: Zero-Span Spectrum Analyzer Method.

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/T Minimum VBW (kHz)
BDR	4.935	4.935	1.000	100.0%	0.00	0.010
HDR4	5.475	5.475	1.000	100.0%	0.00	0.010
HDR8	5.475	5.475	1.000	100.0%	0.00	0.010

Note: DCCF is the same for both SISO MODE and TXBF MODE

DUTY CYCLE PLOT



9.2. 26 dB AND 99% BANDWIDTH**LIMITS**

None; for reporting purposes only.

TEST PROCEDURE

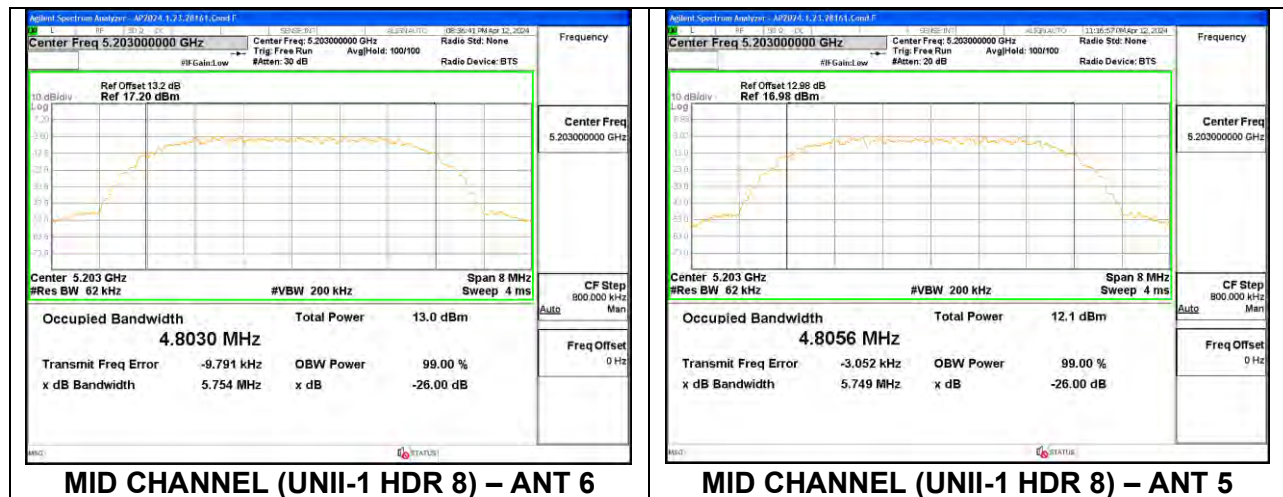
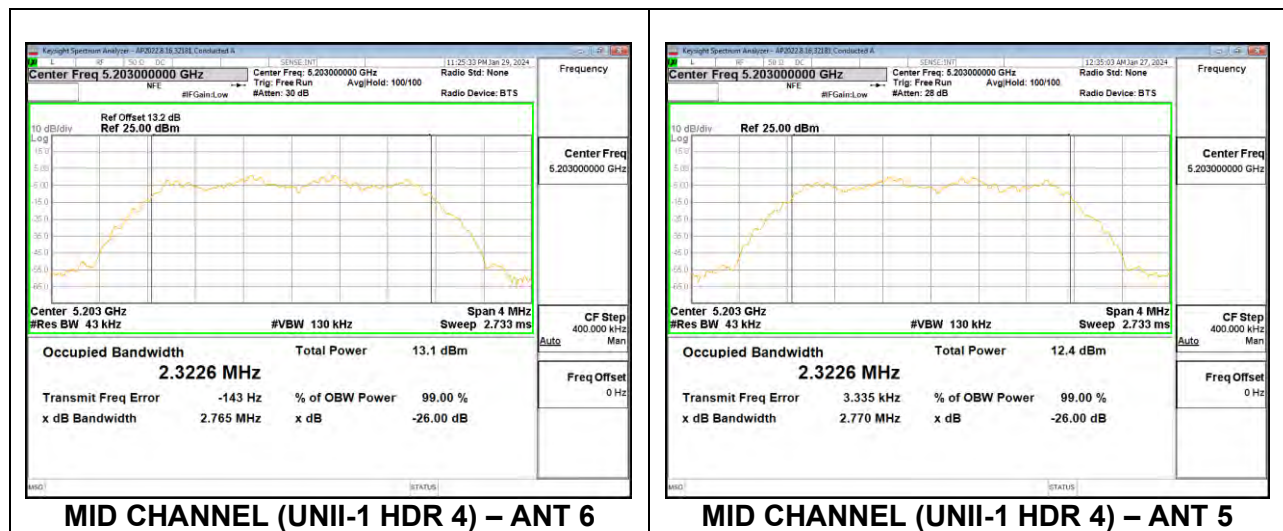
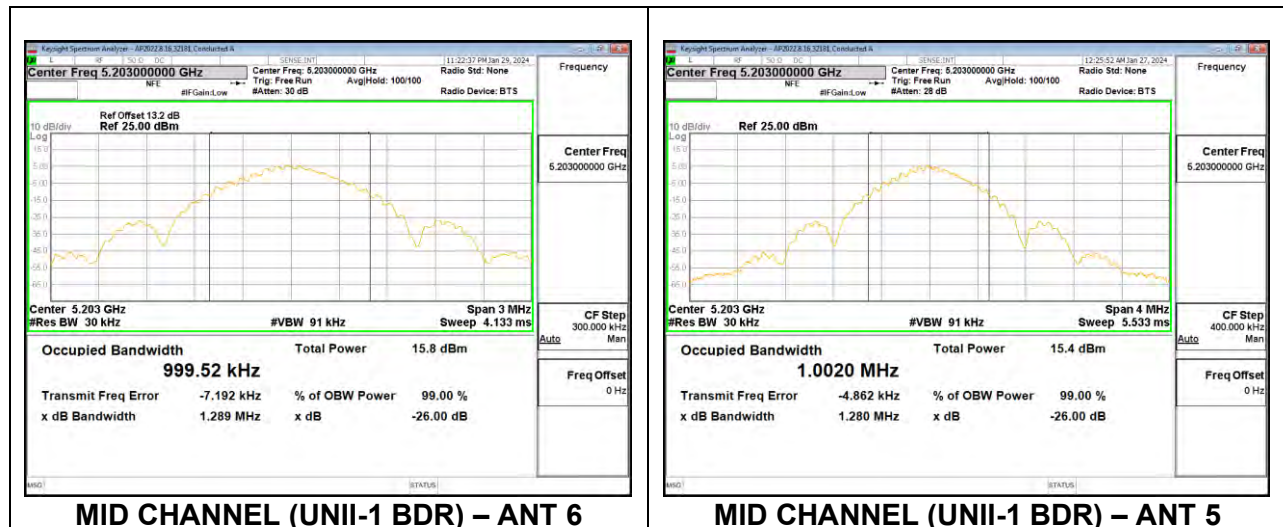
The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 26 dB bandwidth. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.

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.

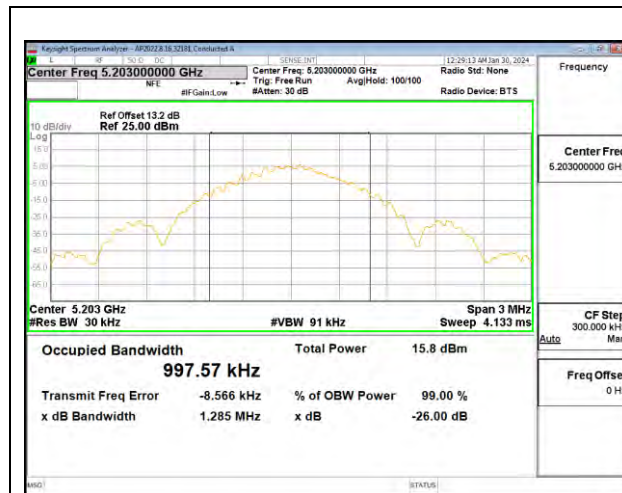
9.2.1. HIGH POWER SISO MODE

(SISO)	Frequency (MHz)	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		ANT 6	ANT 5	ANT 6	ANT 5
BDR (UNII-1)	5162	1.279	1.282	1.0015	1.0037
	5203	1.289	1.280	0.9995	1.0020
	5245	1.281	1.281	0.9963	1.0030
HDR 4 (UNII-1)	5162	2.748	2.573	2.3216	2.3207
	5203	2.765	2.770	2.3226	2.3226
	5245	2.741	2.742	2.3211	2.3265
HDR 8 (UNII-1)	5162	5.758	5.752	4.8151	4.8128
	5203	5.754	5.749	4.8030	4.8056
	5245	5.761	5.759	4.8099	4.8152
BDR (UNII-3)	5733	1.283	1.280	0.9993	0.9907
	5788	1.288	1.275	1.0121	0.9980
	5844	1.286	1.280	1.0008	0.9970
HDR 4 (UNII-3)	5733	2.790	2.770	2.3321	2.3289
	5788	2.772	2.755	2.3267	2.3274
	5844	2.775	2.757	2.3274	2.3278
HDR 8 (UNII-3)	5733	5.773	5.770	4.8307	4.8257
	5788	5.768	5.776	4.8218	4.8213
	5844	5.781	5.777	4.8335	4.8317

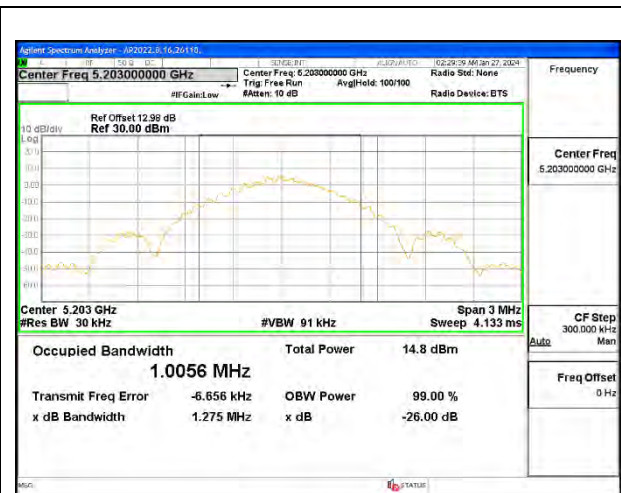


9.2.2. HIGH POWER TXBF MODE

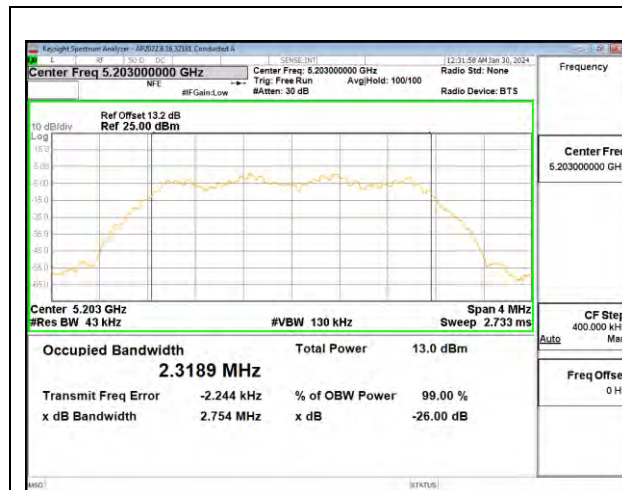
(MIMO BF)	Frequency (MHz)	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
		Ant 6	Ant 5	Ant 6	Ant 5	Min BW
BDR (UNII-1)	5162	1.284	1.284	0.9958	0.9971	0.9958
	5203	1.285	1.275	0.9976	1.0056	0.9976
	5245	1.284	1.274	0.9978	0.9969	0.9969
HDR 4 (UNII-1)	5162	2.731	2.733	2.3180	2.3194	2.3180
	5203	2.754	2.758	2.3189	2.3180	2.3180
	5245	2.761	2.750	2.3202	2.3214	2.3202
HDR 8 (UNII-1)	5162	5.736	5.760	4.8030	4.8151	4.8030
	5203	5.759	5.755	4.8023	4.8082	4.8023
	5245	5.758	5.749	4.8087	4.8096	4.8087
BDR (UNII-3)	5733	1.274	1.280	1.0041	0.9918	--
	5788	1.273	1.280	1.0032	1.0015	--
	5844	1.274	1.268	1.0049	0.9928	--
HDR 4 (UNII-3)	5733	2.809	2.773	2.3333	2.3261	--
	5788	2.814	2.781	2.3354	2.3265	--
	5844	2.817	2.776	2.3339	2.3296	--
HDR 8 (UNII-3)	5733	5.766	5.758	4.8269	4.8211	--
	5788	5.770	5.770	4.8352	4.8284	--
	5844	5.759	5.774	4.8170	4.8323	--



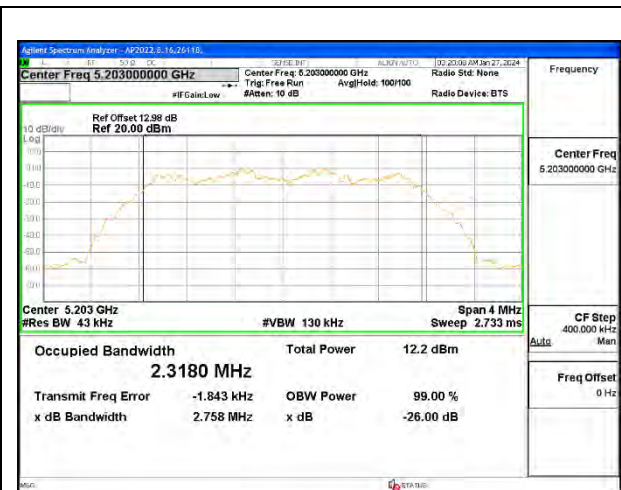
MID CHANNEL (UNII-1 BDR) - ANT 6



MID CHANNEL (UNII-1 BDR) - ANT 5



MID CHANNEL (UNII-1 HDR 4) - ANT 6



MID CHANNEL (UNII-1 HDR 4) - ANT 5



MID CHANNEL (UNII-1 HDR 8) - ANT 6



MID CHANNEL (UNII-1 HDR 8) - ANT 5

9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

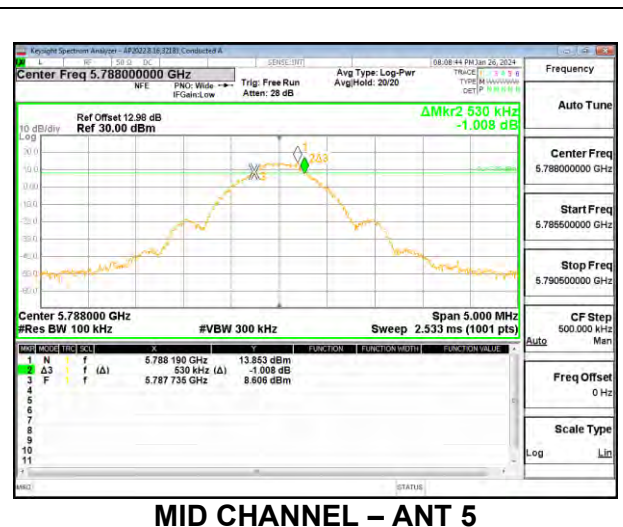
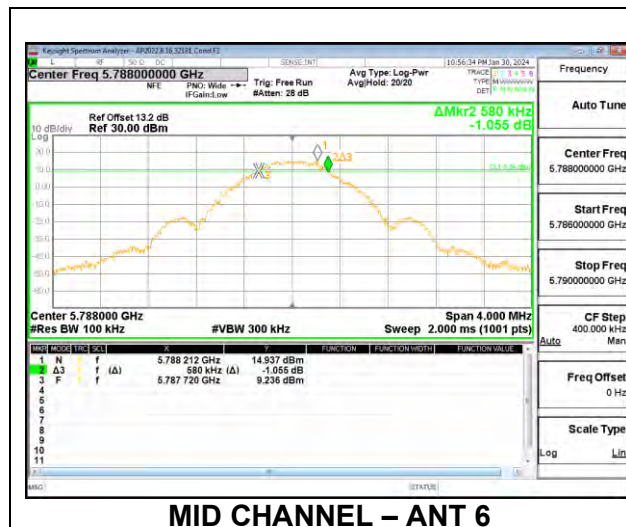
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Only High-Power BDR mode result is reported. It covers all Low Power modes. Only Mid Channel plot is reported to show setting parameter compliance with testing method/procedure.

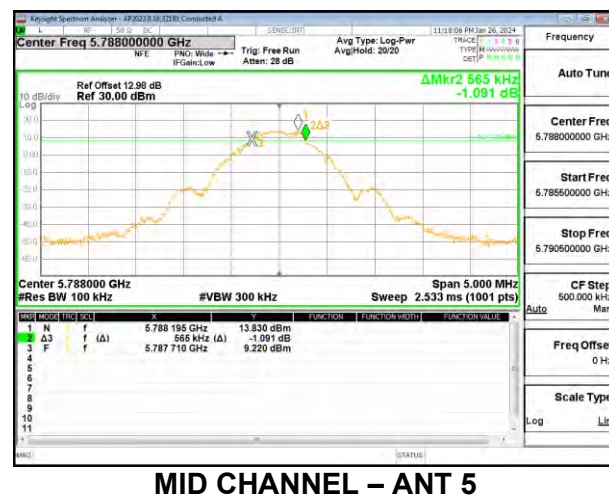
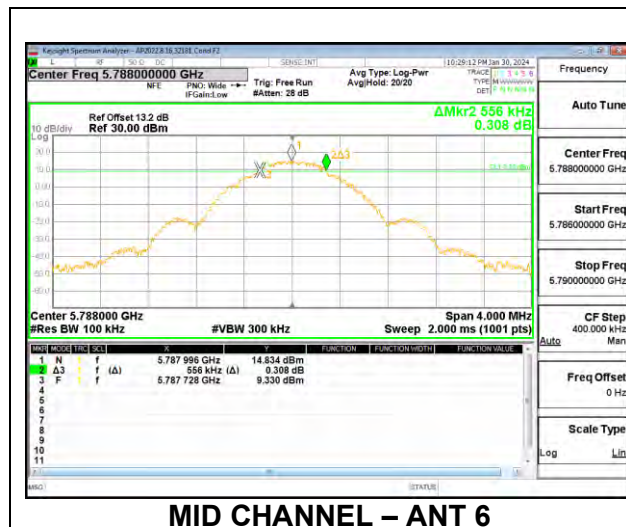
9.3.1. HIGH POWER BDR SISO MODE IN THE UNII-3 BAND

(SISO)	Frequency (MHz)	6 dB Bandwidth (MHz)	
		ANT 6	ANT 5
BDR (UNII-3)	5733	0.540	0.565
	5788	0.580	0.530
	5844	0.564	0.560



9.3.2. HIGH POWER BDR TXBF MODE IN THE UNII-3 BAND

(MIMO BF)	Frequency (MHz)	6 dB Bandwidth (MHz)	
		ANT 6	ANT 5
BDR (UNII-3)	5733	0.552	0.575
	5788	0.556	0.565
	5844	0.568	0.575



9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

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 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

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.

DIRECTIONAL ANTENNA GAIN

For 1 TX:
There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:
Tx chains are uncorrelated for power and correlated for PSD due to the device supporting TXBF in all MIMO modes. The directional gains are as follows:

Band (GHz)	ANT 6 Gain (dBi)	ANT 5 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
UNII-1, 5.2 GHz	-4.80	-5.00	-4.90	-1.89
UNII-3, 5.8 GHz	-0.20	-2.30	-1.12	1.82

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

$$\text{Uncorrelated Directional Gain} = 10 * \text{LOG} \left[\frac{10^{\frac{\text{ANT6}}{10}} + 10^{\frac{\text{ANT5}}{10}}}{2} \right]$$

$$\text{Correlated Directional Gain} = 10 * \text{LOG} \left[\frac{\left(10^{\frac{\text{ANT6}}{20}} + 10^{\frac{\text{ANT5}}{20}} \right)^2}{2} \right]$$

Sample Calculation:

ANT 6 = -4.80

ANT 5 = -5.00

$$\text{Uncorrelated Directional Gain} = 10 * \text{LOG} \left[\frac{10^{\frac{-4.80}{10}} + 10^{\frac{-5.00}{10}}}{2} \right] = -4.90 \text{ dBi}$$

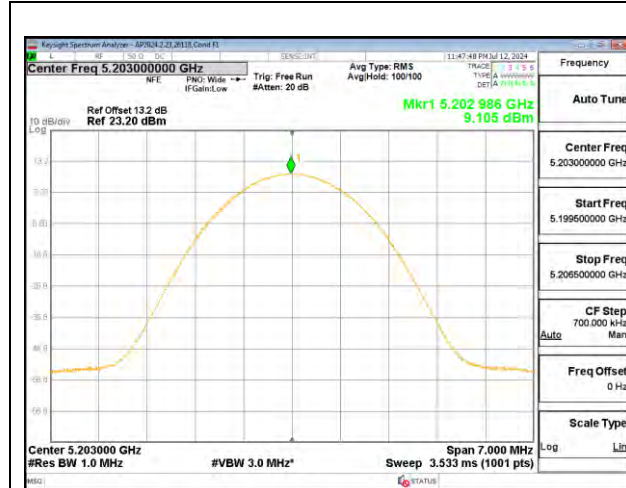
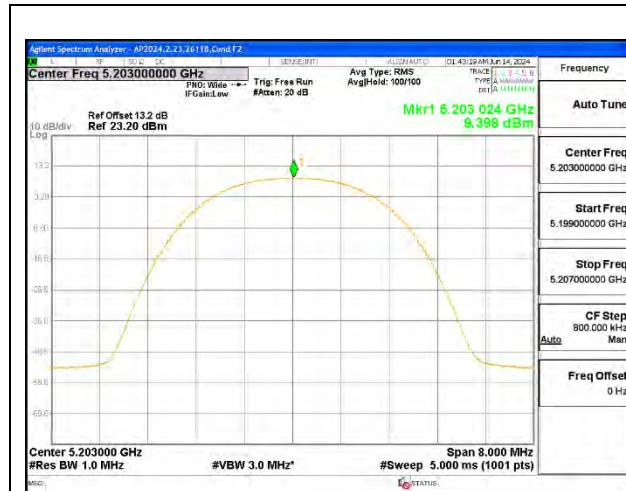
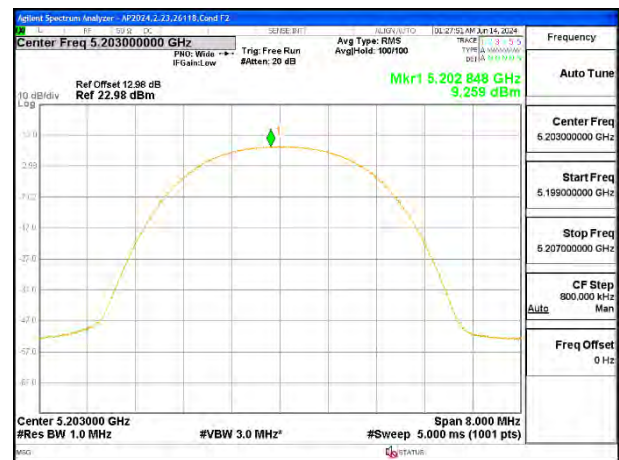
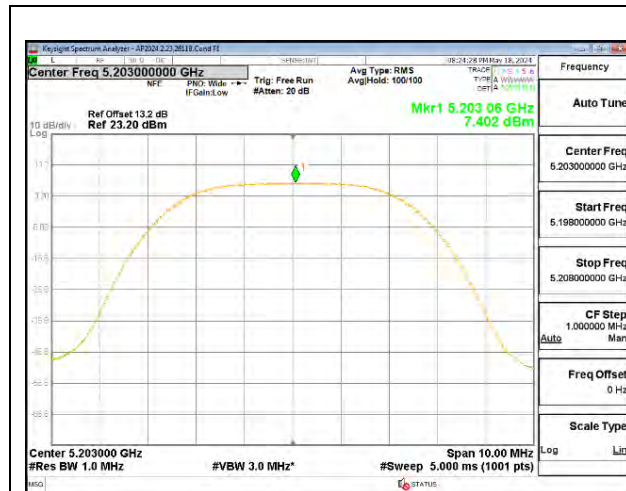
$$\text{Correlated Directional Gain} = 10 * \text{LOG} \left[\frac{\left(10^{\frac{-4.80}{20}} + 10^{\frac{-5.00}{20}} \right)^2}{2} \right] = -1.89 \text{ dBi}$$

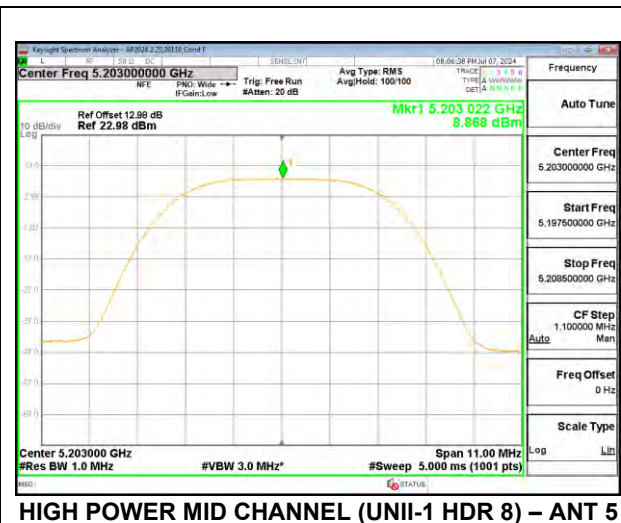
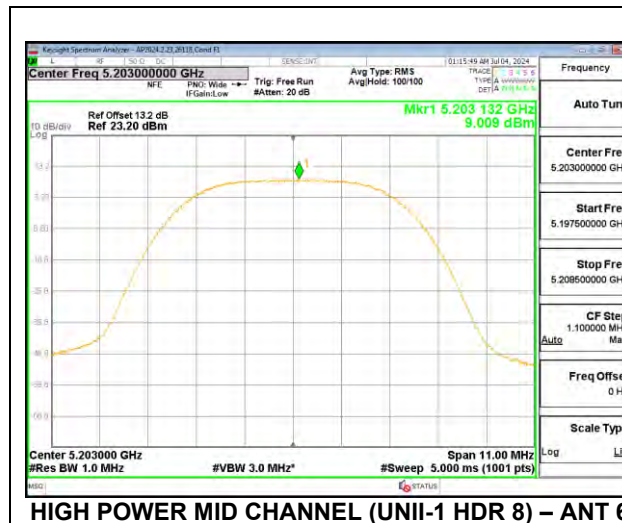
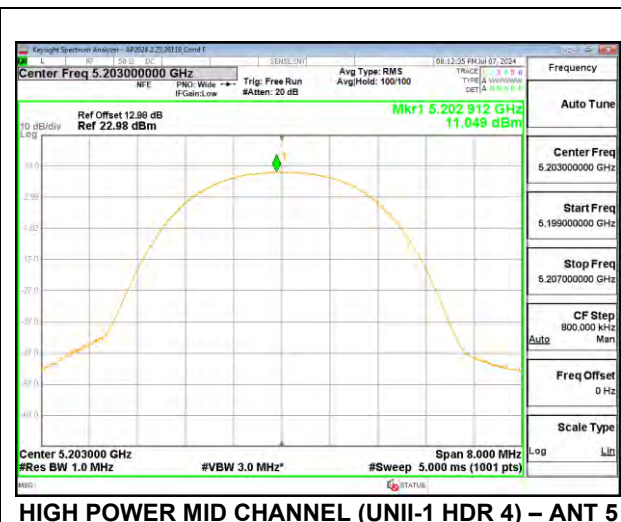
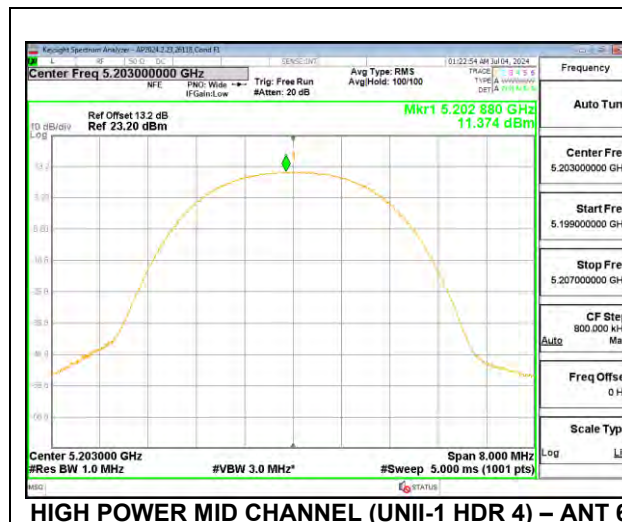
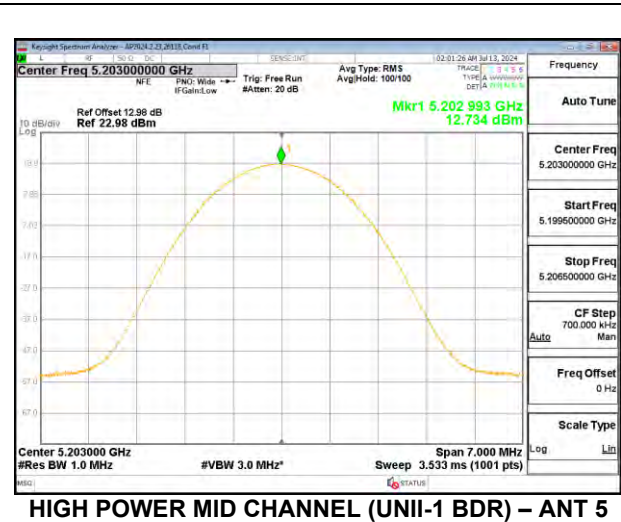
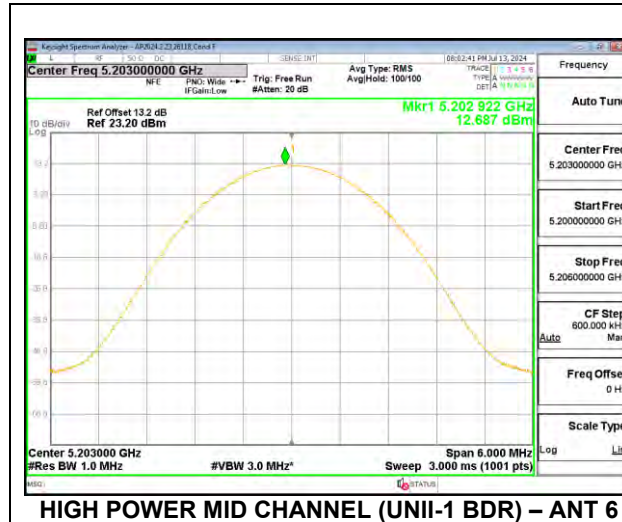
RESULTS:

9.4.1. UNII-1 BAND SISO MODE

UNII-1 (SISO) (5162 - 5245MHz)	
DCCF (dB)	0.00
ANT 6 (dBi)	-4.80
ANT 5 (dBi)	-5.00

UNII-1 (SISO)	Power Config.	Freq (MHz)	Ch.	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power (dBm)		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD (dBm/MHz)	
				ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5
BDR (FCC)	High	5162	Low	--		24	24	9.85	9.80	9.85	9.80	11	11	9.571	9.329	9.571	9.329
		5203	Mid					9.83	9.82	9.83	9.82			9.105	9.424	9.105	9.424
		5245	High					9.88	9.84	9.88	9.84			9.340	9.295	9.340	9.295
BDR (FCC)	Low	5162	Low					6.34	4.85	6.34	4.85			5.955	4.006	5.955	4.006
		5203	Mid					6.39	4.80	6.39	4.80			5.871	4.529	5.871	4.529
		5245	High					6.40	4.86	6.40	4.86			5.611	4.143	5.611	4.143
HDR 4 (FCC)	High	5162	Low					11.34	11.29	11.34	11.29			9.686	9.485	9.686	9.485
		5203	Mid					11.30	11.27	11.30	11.27			9.398	9.259	9.398	9.259
		5245	High					11.31	11.25	11.31	11.25			9.466	9.071	9.466	9.071
HDR 4 (FCC)	Low	5162	Low					-0.17	-1.77	-0.17	-1.77			-1.687	-3.191	-1.687	-3.191
		5203	Mid					-0.24	-1.80	-0.24	-1.80			-2.437	-3.744	-2.437	-3.744
		5245	High					-0.20	-1.79	-0.20	-1.79			-2.257	-3.703	-2.257	-3.703
HDR 8 (FCC)	High	5162	Low					13.81	13.83	13.81	13.83			7.865	8.140	7.865	8.140
		5203	Mid					13.87	13.75	13.87	13.75			7.402	7.852	7.402	7.852
		5245	High					13.74	13.87	13.74	13.87			7.961	8.276	7.961	8.276
HDR 8 (FCC)	Low	5162	Low					-0.11	-1.71	-0.11	-1.71			-4.295	-6.515	-4.295	-6.515
		5203	Mid					-0.24	-1.70	-0.24	-1.70			-4.936	-6.403	-4.936	-6.403
		5245	High					-0.28	-1.77	-0.28	-1.77			-5.564	-6.767	-5.564	-6.767
BDR (IC)	High	5162	Low	1.0015	1.0037	14.81	15.02	13.33	13.79	13.33	13.79	14.80	15.00	13.014	13.221	13.01	13.22
		5203	Mid	0.9995	1.0020	14.80	15.01	13.25	13.80	13.25	13.80			12.687	12.734	12.69	12.73
		5245	High	0.9963	1.0030	14.78	15.01	13.29	13.72	13.29	13.72			12.927	13.011	12.93	13.01
BDR (IC)	Low	5162	Low	1.0319	0.9505	14.94	14.78	6.34	4.85	6.34	4.85			5.955	4.006	5.96	4.01
		5203	Mid	1.0662	0.9675	15.08	14.86	6.39	4.80	6.39	4.80			5.871	4.529	5.87	4.53
		5245	High	1.0764	0.9561	15.12	14.80	6.40	4.86	6.40	4.86			5.611	4.143	5.61	4.14
HDR 4 (IC)	High	5162	Low	2.3216	2.3207	18.46	18.66	14.29	14.35	14.29	14.35			11.111	10.863	11.11	10.86
		5203	Mid	2.3226	2.3226	18.46	18.66	14.24	14.29	14.24	14.29			11.374	11.049	11.37	11.05
		5245	High	2.3211	2.3265	18.46	18.67	14.22	14.23	14.22	14.23			10.722	10.883	10.72	10.88
HDR 4 (IC)	Low	5162	Low	2.3366	2.3121	18.49	18.64	-0.17	-1.77	-0.17	-1.77			-1.687	-3.191	-1.69	-3.19
		5203	Mid	2.3209	2.3160	18.46	18.65	-0.24	-1.80	-0.24	-1.80			-2.437	-3.744	-2.44	-3.74
		5245	High	2.3226	2.3168	18.46	18.65	-0.20	-1.79	-0.20	-1.79			-2.257	-3.703	-2.26	-3.70
HDR 8 (IC)	High	5162	Low	4.8151	4.8128	21.63	21.82	14.37	14.39	14.37	14.39			8.866	8.685	8.87	8.69
		5203	Mid	4.8030	4.8056	21.62	21.82	14.39	14.40	14.39	14.40			9.009	8.868	9.01	8.87
		5245	High	4.8099	4.8152	21.62	21.83	14.28	14.31	14.28	14.31			9.262	8.934	9.26	8.93
HDR 8 (IC)	Low	5162	Low	4.8158	4.8190	21.63	21.83	-0.11	-1.71	-0.11	-1.71			-4.295	-6.515	-4.30	-6.52
		5203	Mid	4.8084	4.8048	21.62	21.82	-0.24	-1.70	-0.24	-1.70			-4.936	-6.403	-4.94	-6.40
		5245	High	4.8119	4.8170	21.62	21.83	-0.28	-1.77	-0.28	-1.77			-5.564	-6.767	-5.56	-6.77

FCC**HIGH POWER MID CHANNEL (UNII-1 BDR) – ANT 6****HIGH POWER MID CHANNEL (UNII-1 BDR) – ANT 5****HIGH POWER MID CHANNEL (UNII-1 HDR 4) – ANT 6****HIGH POWER MID CHANNEL (UNII-1 HDR 4) – ANT 5****HIGH POWER MID CHANNEL (UNII-1 HDR 8) – ANT 6****HIGH POWER MID CHANNEL (UNII-1 HDR 8) – ANT 5**

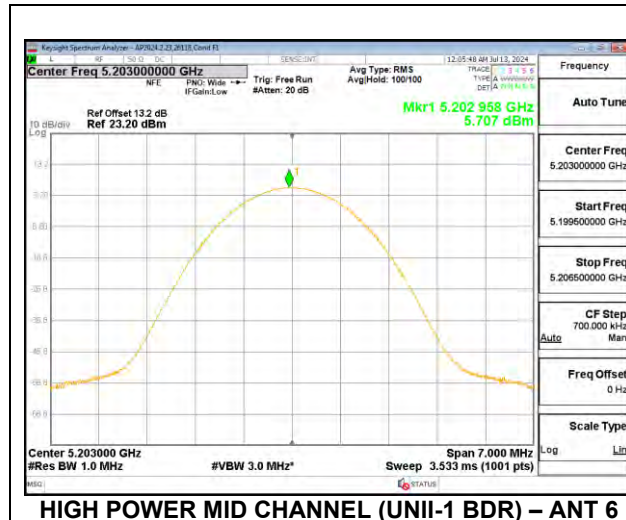
IC

9.4.2. UNII-1 BAND MIMO TXBF MODE

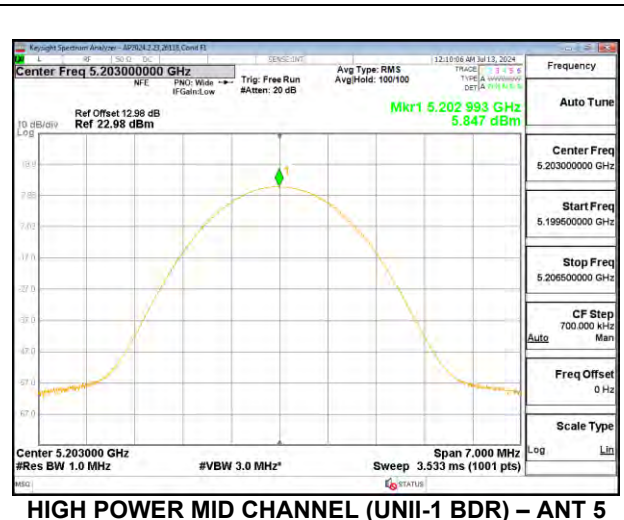
UNII-1 (MIMO BF) (5162 - 5245MHz)	
DCCF (dB)	0.00
Un-Correlated Gain (dBi)	-4.90
Correlated Gain (dBi)	-1.89

UNII-1 (MIMO BF)	Power Config.	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
						ANT 6	ANT 5			ANT 6	ANT 5	
BDR (FCC)	High	5162	Low	--	24.00	6.79	6.80	9.81	11.00	5.979	5.730	8.867
		5203	Mid			6.81	6.85	9.84		5.707	5.847	8.788
		5245	High			6.75	6.77	9.77		5.614	5.717	8.676
BDR (FCC)	Low	5162	Low			6.32	4.77	8.62		5.865	4.388	8.199
		5203	Mid			6.37	4.82	8.67		5.816	4.458	8.200
		5245	High			6.25	4.79	8.59		5.975	4.336	8.243
HDR 4 (FCC)	High	5162	Low			8.38	8.39	11.40		6.823	6.601	9.724
		5203	Mid			8.21	8.28	11.26		6.482	6.454	9.478
		5245	High			8.40	8.37	11.40		6.704	6.562	9.644
HDR 4 (FCC)	Low	5162	Low			-0.19	-1.77	2.10		-1.789	-3.222	0.564
		5203	Mid			-0.15	-1.69	2.16		-2.458	-3.826	-0.078
		5245	High			-0.24	-1.65	2.12		-2.409	-3.756	-0.020
HDR 8 (FCC)	High	5162	Low			10.74	10.73	13.75		5.621	5.975	8.812
		5203	Mid			10.82	10.83	13.84		5.884	6.023	8.964
		5245	High			10.71	10.81	13.77		5.753	6.063	8.921
HDR 8 (FCC)	Low	5162	Low			-0.15	-1.78	2.12		-4.503	-6.439	-2.354
		5203	Mid			-0.28	-1.71	2.07		-5.053	-6.481	-2.698
		5245	High			-0.24	-1.67	2.11		-4.911	-6.769	-2.731
BDR (IC)	High	5162	Low	0.9958	11.87	7.41	7.78	10.61	11.89	6.592	6.963	9.79
		5203	Mid	0.9976	11.88	7.35	7.82	10.60		6.886	6.697	9.80
		5245	High	0.9969	11.88	7.26	7.80	10.55		6.120	6.569	9.36
BDR (IC)	Low	5162	Low	0.9942	11.86	6.32	4.77	8.62		5.865	4.388	8.20
		5203	Mid	0.9899	11.85	6.37	4.82	8.67		5.816	4.458	8.20
		5245	High	0.9965	11.87	6.25	4.79	8.59		5.975	4.336	8.24
HDR 4 (IC)	High	5162	Low	2.3180	15.54	9.28	9.71	12.51		7.385	7.914	10.67
		5203	Mid	2.3180	15.54	9.35	9.82	12.60		6.956	7.203	10.09
		5245	High	2.3202	15.55	9.22	9.80	12.53		6.940	7.574	10.28
HDR 4 (IC)	Low	5162	Low	2.3128	15.53	-0.19	-1.77	2.10		-1.789	-3.222	0.56
		5203	Mid	2.3211	15.55	-0.15	-1.69	2.16		-2.458	-3.826	-0.08
		5245	High	2.3232	15.55	-0.24	-1.65	2.12		-2.409	-3.756	-0.02
HDR8 (FCC)	High	5162	Low	4.8030	18.71	11.33	11.76	14.56		7.317	7.603	10.47
		5203	Mid	4.8023	18.70	11.37	11.71	14.55		6.659	6.969	9.83
		5245	High	4.8087	18.71	11.29	11.69	14.50		5.953	6.266	9.12
HDR 8 (IC)	Low	5162	Low	4.0210	17.93	-0.15	-1.78	2.12		-4.503	-6.439	-2.35
		5203	Mid	4.8136	18.71	-0.28	-1.71	2.07		-5.053	-6.481	-2.70
		5245	High	4.8068	18.71	-0.24	-1.67	2.11		-4.911	-6.769	-2.73

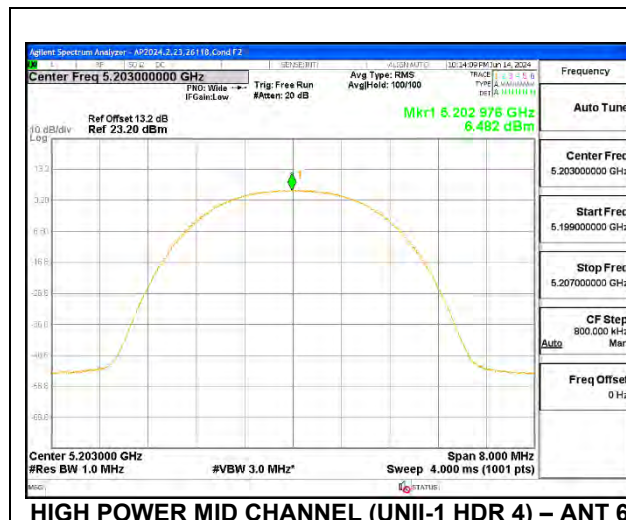
FCC



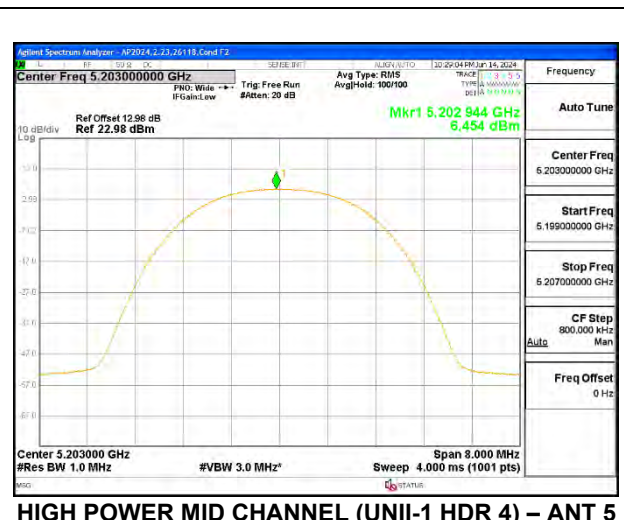
HIGH POWER MID CHANNEL (UNII-1 BDR) – ANT 6



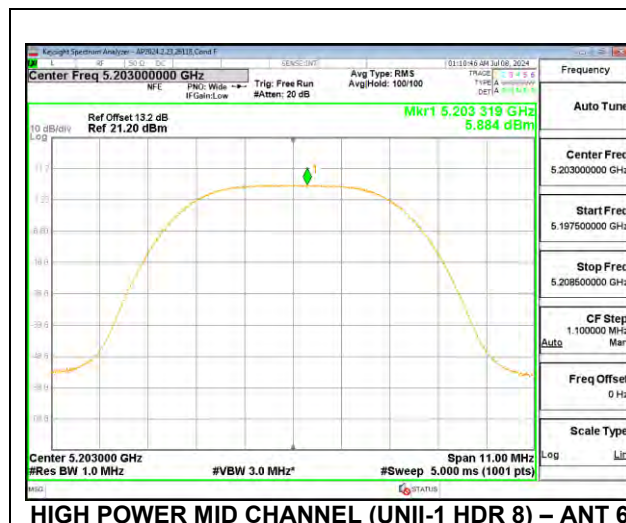
HIGH POWER MID CHANNEL (UNII-1 BDR) – ANT 5



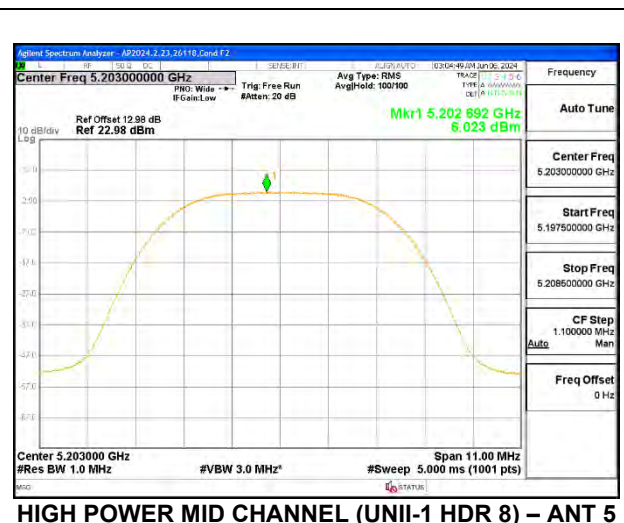
HIGH POWER MID CHANNEL (UNII-1 HDR 4) – ANT 6



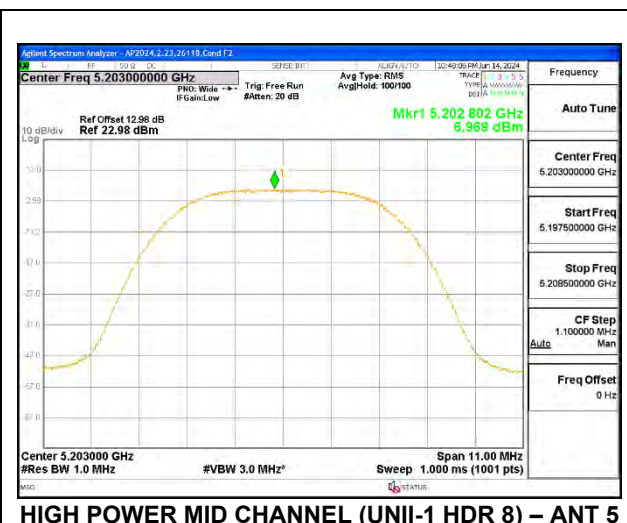
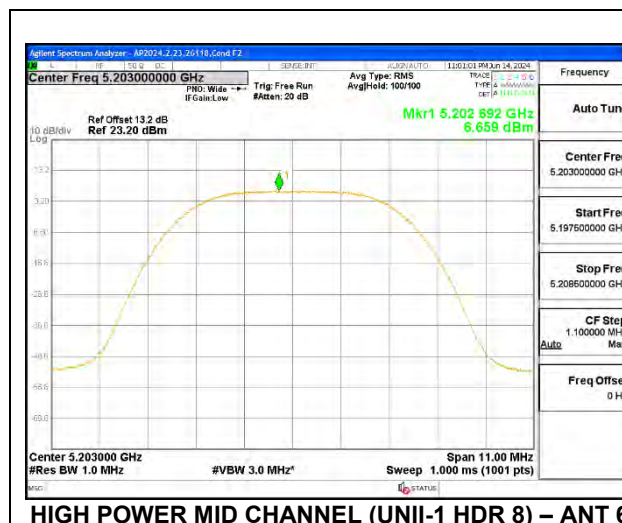
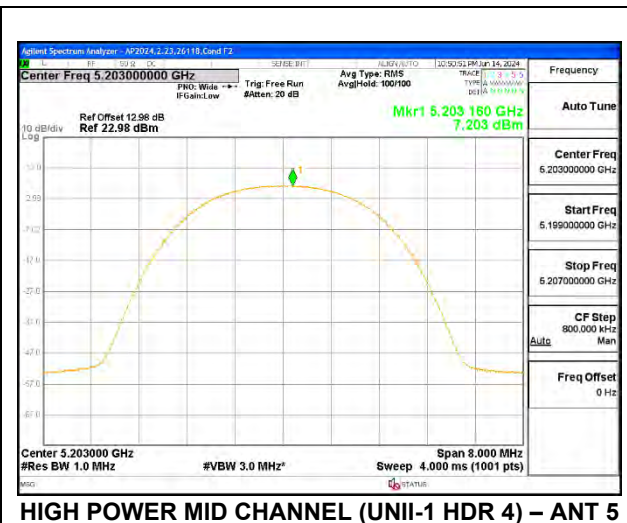
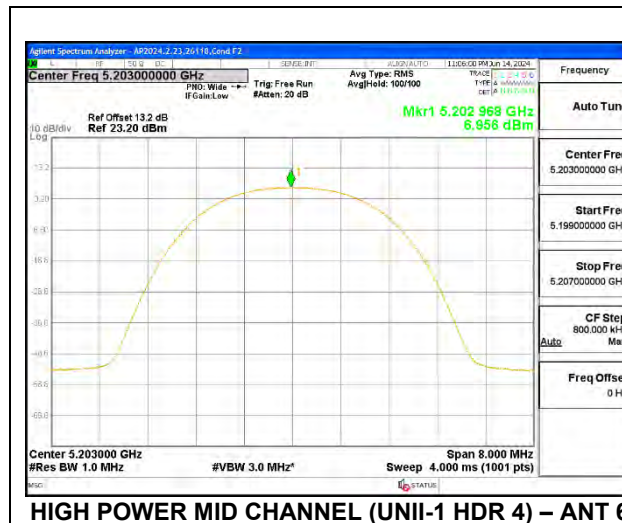
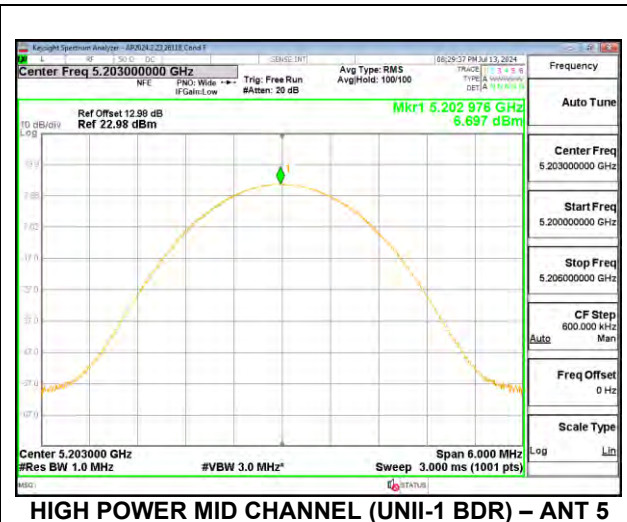
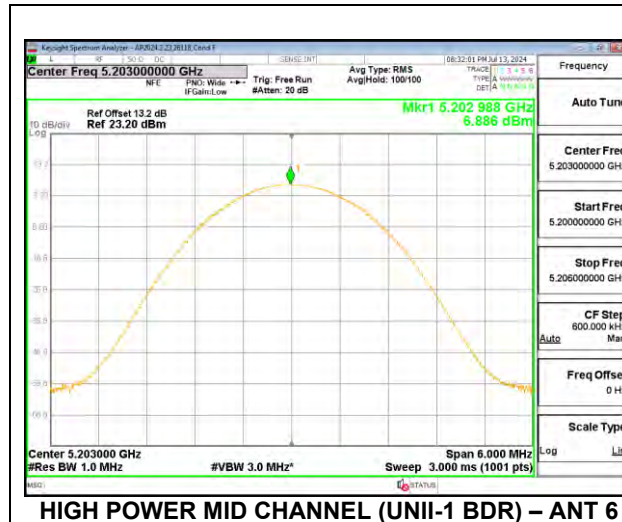
HIGH POWER MID CHANNEL (UNII-1 HDR 4) – ANT 5



HIGH POWER MID CHANNEL (UNII-1 HDR 8) – ANT 6



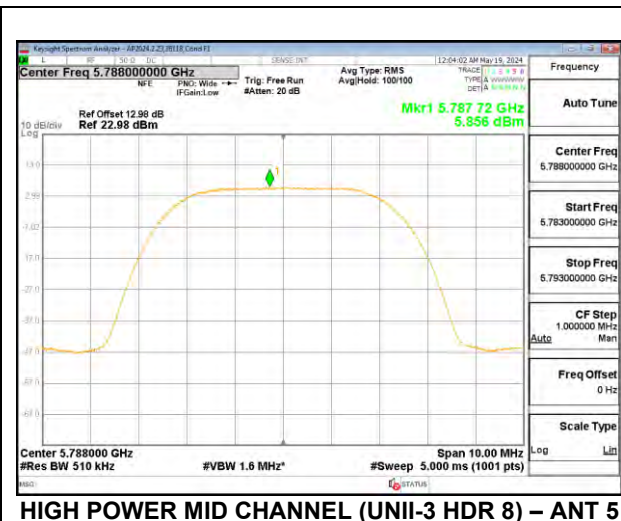
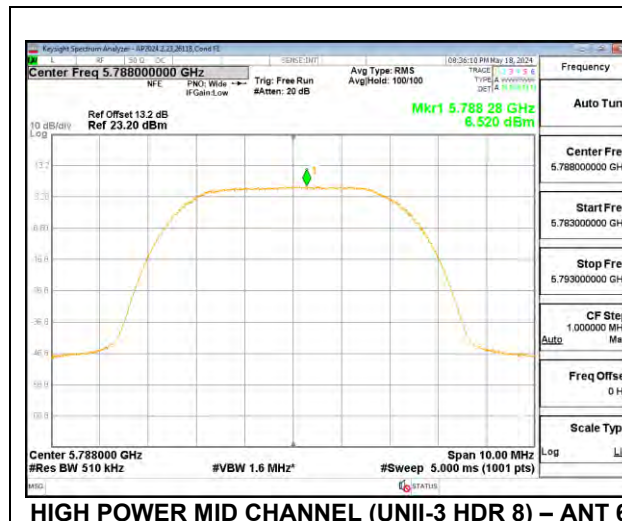
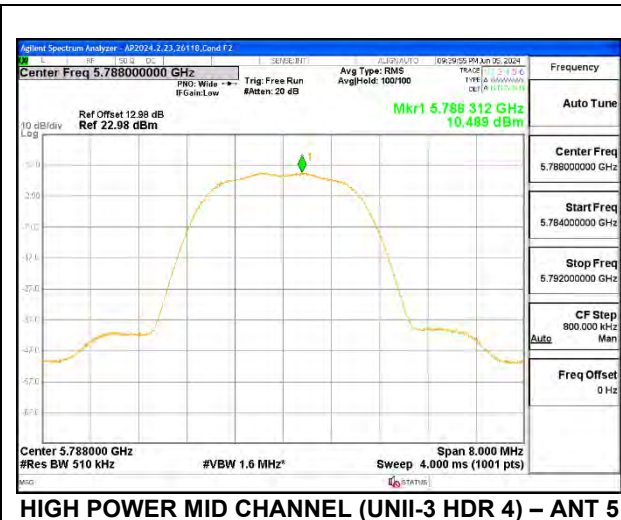
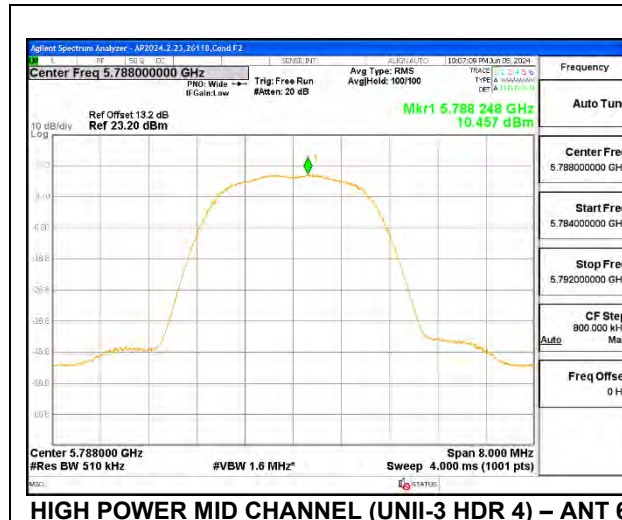
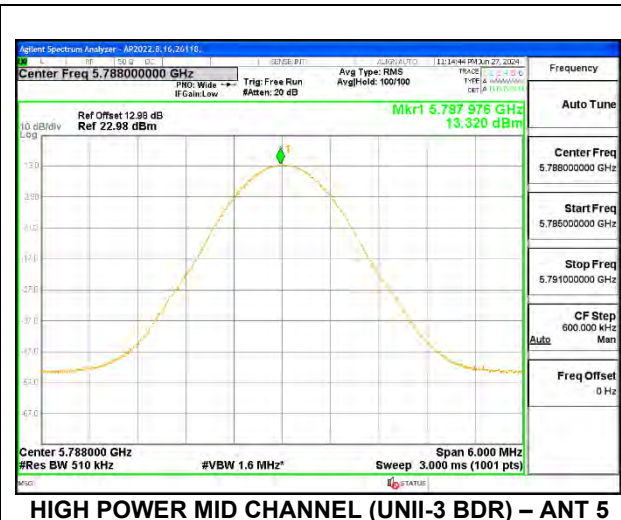
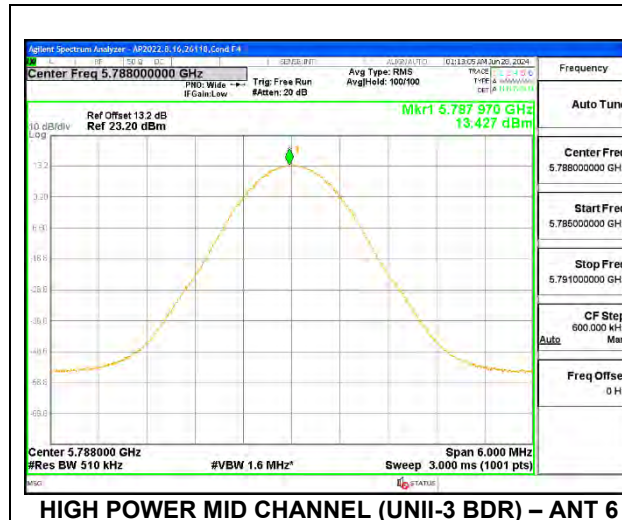
HIGH POWER MID CHANNEL (UNII-1 HDR 8) – ANT 5



9.4.3. UNII-3 BAND SISO MODE

UNII-3 (SISO) (5733 - 5844MHz)	
DCCF (dB)	0.00
ANT 6 (dBi)	-0.20
ANT 5 (dBi)	-2.30

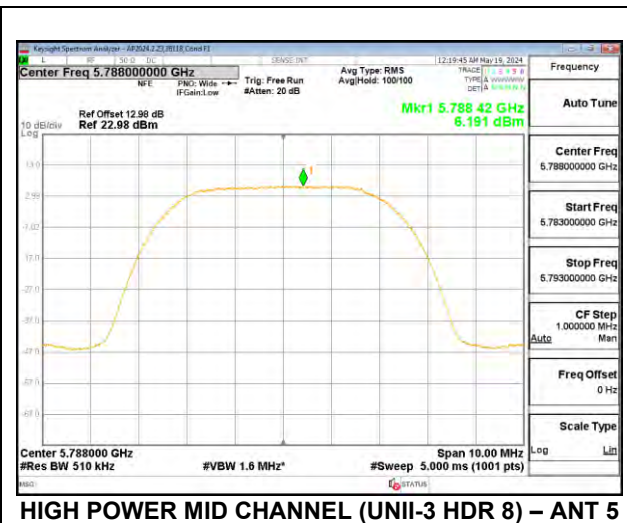
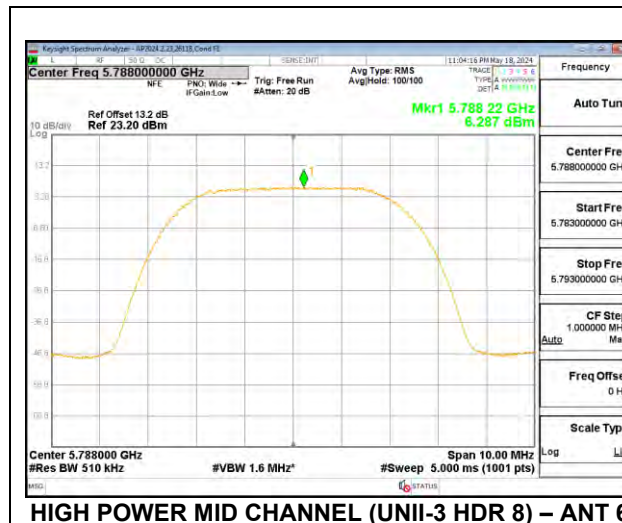
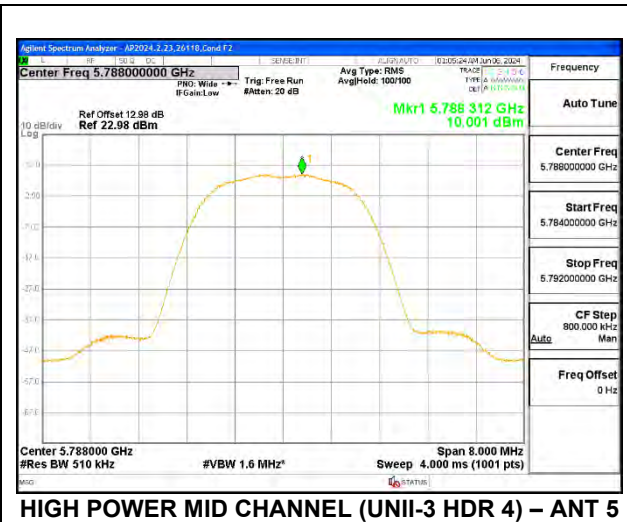
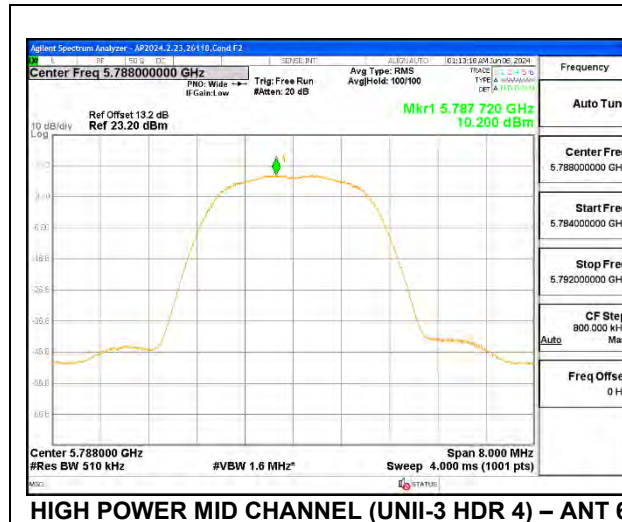
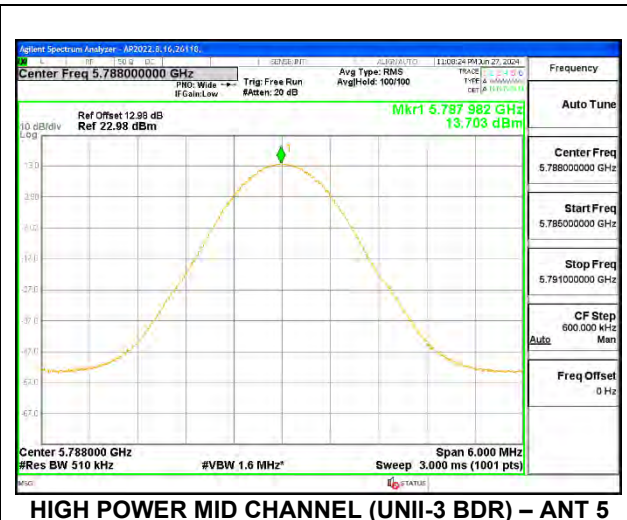
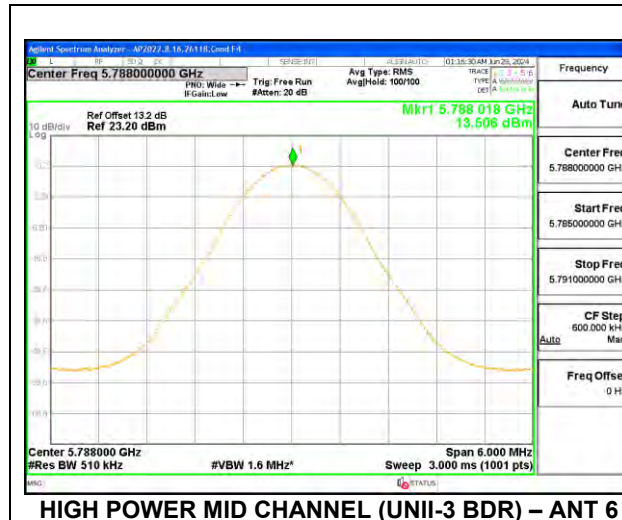
UNII-3 (SISO)	Power Config.	Freq (MHz)	Ch.	Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power (dBm)		PSD Limit (dBm/500kHz)		PSD (dBm/MHz)		Total Corrected PSD (dBm/500kHz)	
				ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5	ANT 6	ANT 5
BDR	High	5733	Low	30	30	14.27	14.35	14.27	14.35	30	30	13.802	14.122	13.802	14.122
		5788	Mid			14.32	14.25	14.32	14.25			13.427	13.320	13.427	13.320
		5844	High			14.23	14.28	14.23	14.28			13.692	13.947	13.692	13.947
	Low	5733	Low			6.82	5.35	6.82	5.35			6.159	3.970	6.159	3.970
		5788	Mid			6.80	5.23	6.80	5.23			6.074	3.987	6.074	3.987
		5844	High			6.74	5.27	6.74	5.27			6.102	3.768	6.102	3.768
HDR 4	High	5733	Low			14.33	14.34	14.33	14.34			10.644	10.860	10.644	10.860
		5788	Mid			14.29	14.29	14.29	14.29			10.457	10.489	10.457	10.489
		5844	High			14.32	14.31	14.32	14.31			9.577	10.021	9.577	10.021
	Low	5733	Low			0.40	-1.30	0.40	-1.30			-3.692	-5.031	-3.692	-5.031
		5788	Mid			0.30	-1.18	0.30	-1.18			-4.134	-4.586	-4.134	-4.586
		5844	High			0.34	-1.21	0.34	-1.21			-3.913	-5.413	-3.913	-5.413
HDR 8	High	5733	Low			14.34	14.23	14.34	14.23			6.085	5.743	6.085	5.743
		5788	Mid			14.38	14.29	14.38	14.29			6.520	5.856	6.520	5.856
		5844	High			14.24	14.28	14.24	14.28			6.037	5.646	6.037	5.646
	Low	5733	Low			0.34	-1.27	0.34	-1.27			-6.809	-8.658	-6.809	-8.658
		5788	Mid			0.29	-1.23	0.29	-1.23			-6.735	-8.731	-6.735	-8.731
		5844	High			0.24	-1.26	0.24	-1.26			-7.032	-8.764	-7.032	-8.764



9.4.4. UNII-3 BAND MIMO TXBF MODE

UNII-3 (MIMO BF) (5733 - 5844MHz)	
DCCF (dB)	0.00
Un-Correlated Gain (dBi)	-1.12
Correlated Gain (dBi)	1.82

UNII-3 (MIMO BF)	Power Config.	Freq (MHz)	Ch.	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/500kHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/500kHz)
					ANT 6	ANT 5			ANT 6	ANT 5	
BDR	High	5733	Low	30	14.23	14.22	17.24	30	13.730	13.669	16.710
		5788	Mid		14.21	14.24	17.24		13.506	13.703	16.616
		5844	High		14.29	14.31	17.31		14.176	14.169	17.183
	Low	5733	Low		6.76	5.32	9.11		6.002	4.503	8.327
		5788	Mid		6.73	5.28	9.08		5.981	4.668	8.384
		5844	High		6.71	5.30	9.07		6.062	4.469	8.348
HDR 4	High	5733	Low		14.30	14.32	17.32		10.417	10.549	13.494
		5788	Mid		14.21	14.26	17.25		10.200	10.001	13.112
		5844	High		14.29	14.28	17.30		10.029	9.669	12.863
	Low	5733	Low		0.38	-1.22	2.66		-3.766	-4.375	-1.050
		5788	Mid		0.41	-1.24	2.67		-3.236	-5.500	-1.212
		5844	High		0.31	-1.29	2.59		-4.013	-5.507	-1.686
HDR 8	High	5733	Low		14.25	14.30	17.29		6.051	6.286	9.180
		5788	Mid		14.29	14.26	17.29		6.287	6.191	9.250
		5844	High		14.36	14.28	17.33		6.344	6.268	9.316
	Low	5733	Low		0.33	-1.26	2.62		-6.859	-8.787	-4.707
		5788	Mid		0.26	-1.29	2.56		-6.995	-8.853	-4.815
		5844	High		0.24	-1.27	2.56		-7.161	-8.941	-4.950



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

6.2.1.2 (for 5150-5250 MHz band)
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 and 1.5 meters 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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

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.

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 report 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.

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

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.

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

RESULTS

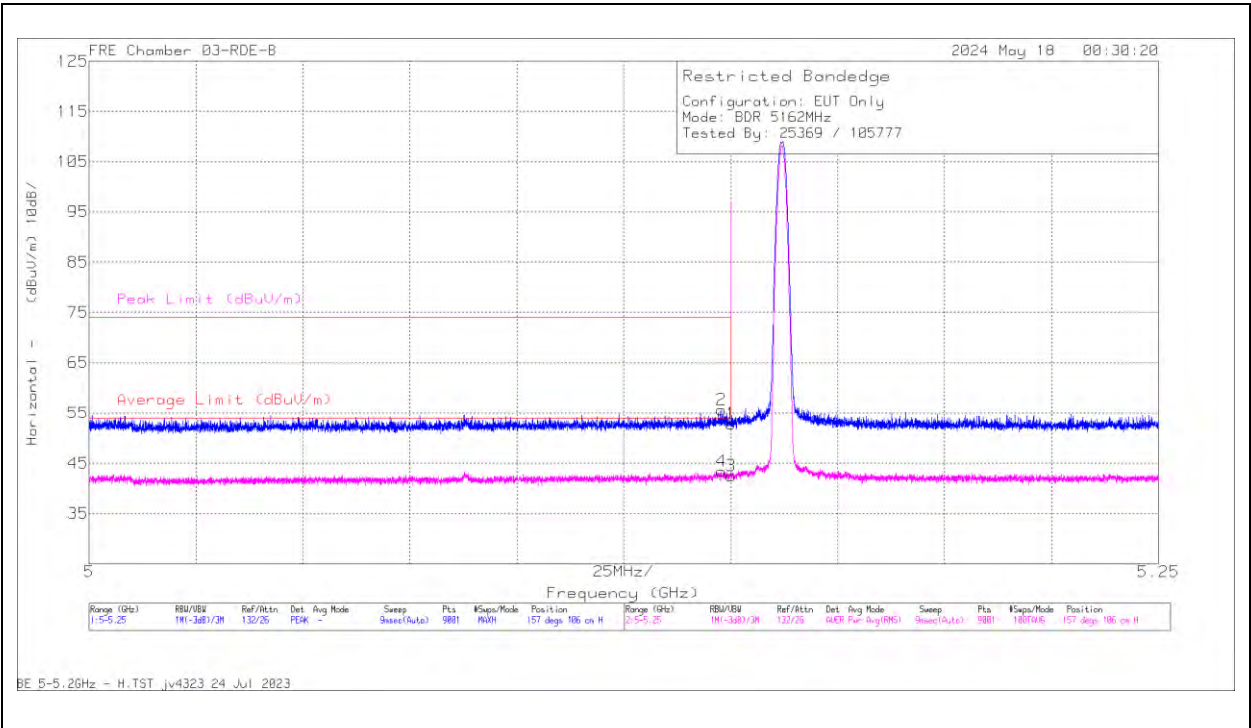
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BDR HIGH POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

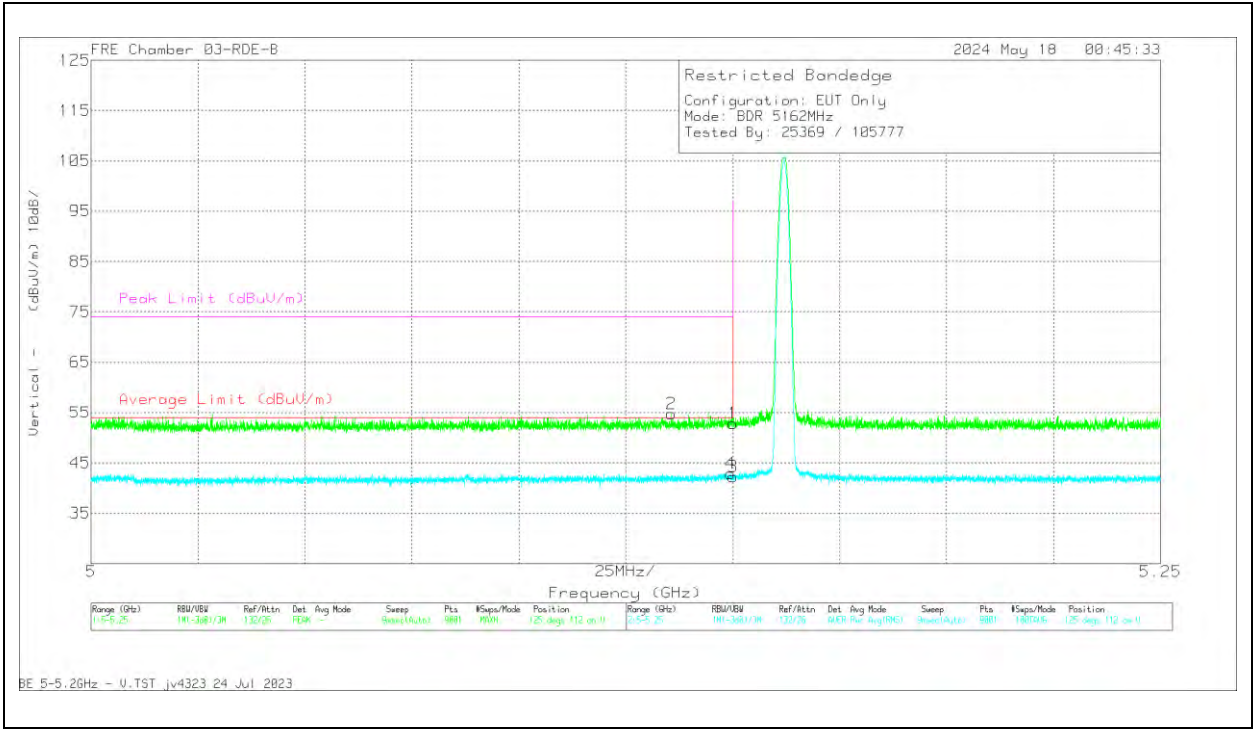
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.87	Pk	34.3	-40.3	52.87	-	-	74	-21.13	157	106	H
2	* 5.14789	61.55	Pk	34.3	-40.2	55.65	-	-	74	-18.35	157	106	H
3	* 5.15	48.48	RMS	34.3	-40.3	42.48	54	-11.52	-	-	157	106	H
4	* 5.147779	49.31	RMS	34.3	-40.2	43.41	54	-10.59	-	-	157	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



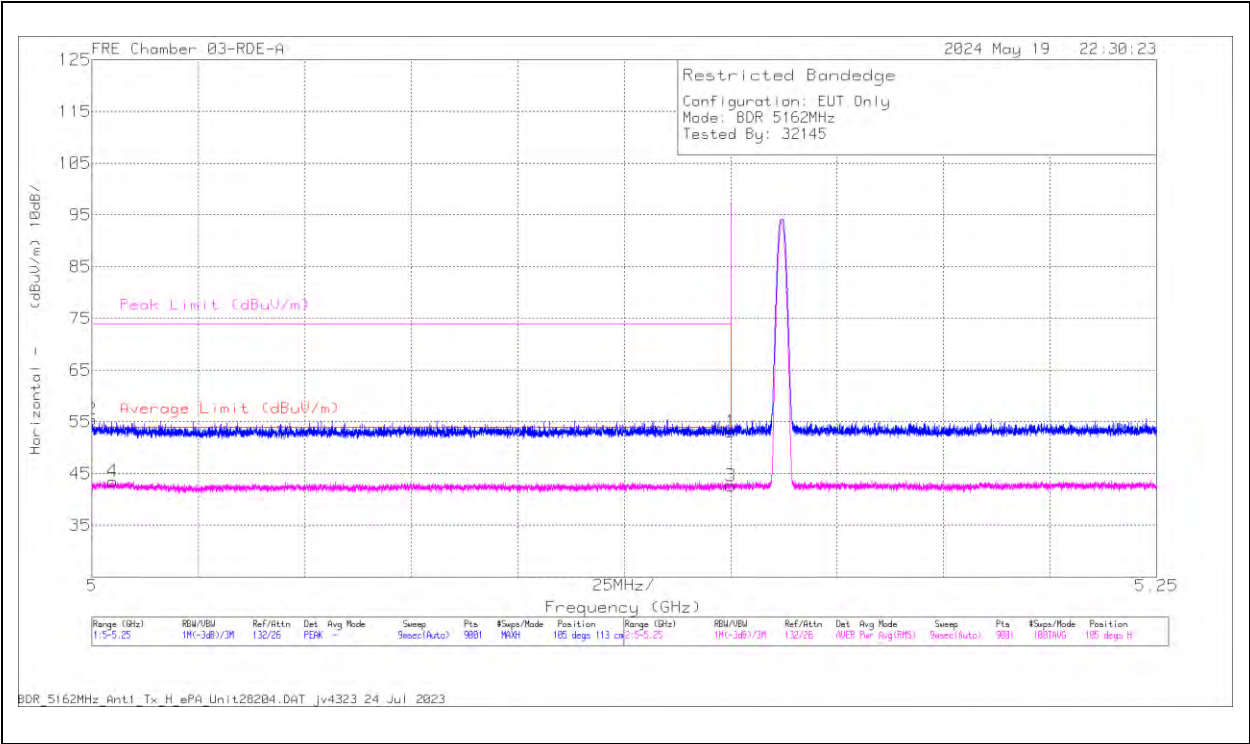
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.86	Pk	34.3	-40.3	52.86	-	-	74	-21.14	125	112	V
2	* 5.135723	60.76	Pk	34.3	-40.3	54.76	-	-	74	-19.24	125	112	V
3	* 5.15	48.24	RMS	34.3	-40.3	42.24	54	-11.76	-	-	125	112	V
4	* 5.149501	48.91	RMS	34.3	-40.3	42.91	54	-11.09	-	-	125	112	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5, SISO MODE

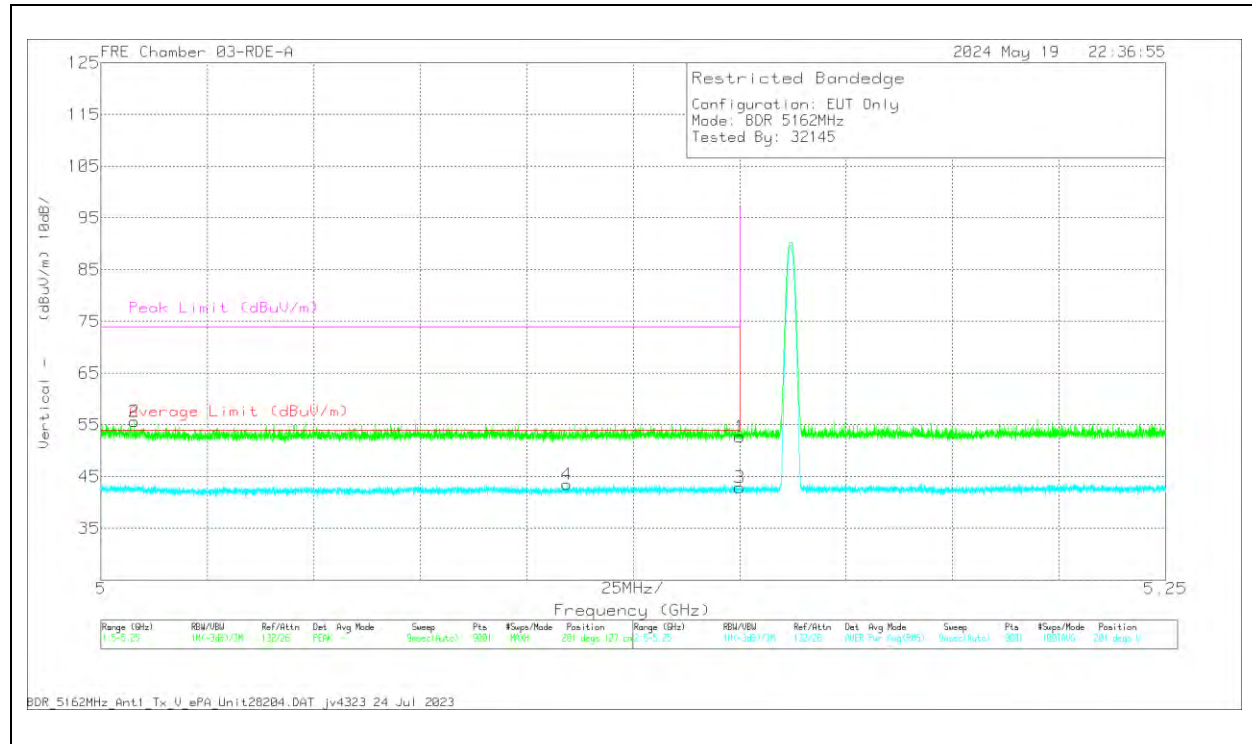
LOW CHANNEL, 5162 MHz

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.23	Pk	34.2	-38.28	53.15	-	-	74	-20.85	105	113	H
2	* 5.000028	59.76	PK	34	-38.3	55.46	-	-	74	-18.54	105	113	H
3	* 5.15	46.75	RMS	34.2	-38.28	42.67	54	-11.33	-	-	105	113	H
4	* 5.004944	47.86	RMS	34	-38.33	43.53	54	-10.47	-	-	105	113	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	56.77	Pk	34.2	-38.28	52.69	-	-	74	-21.31	201	127	V
2	* 5.007889	60.04	Pk	34	-38.39	55.65	-	-	74	-18.35	201	127	V
3	* 5.15	46.95	RMS	34.2	-38.28	42.87	54	-11.13	-	-	201	127	V
4	* 5.109418	47.69	RMS	34.1	-38.29	43.5	54	-10.5	-	-	201	127	V

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

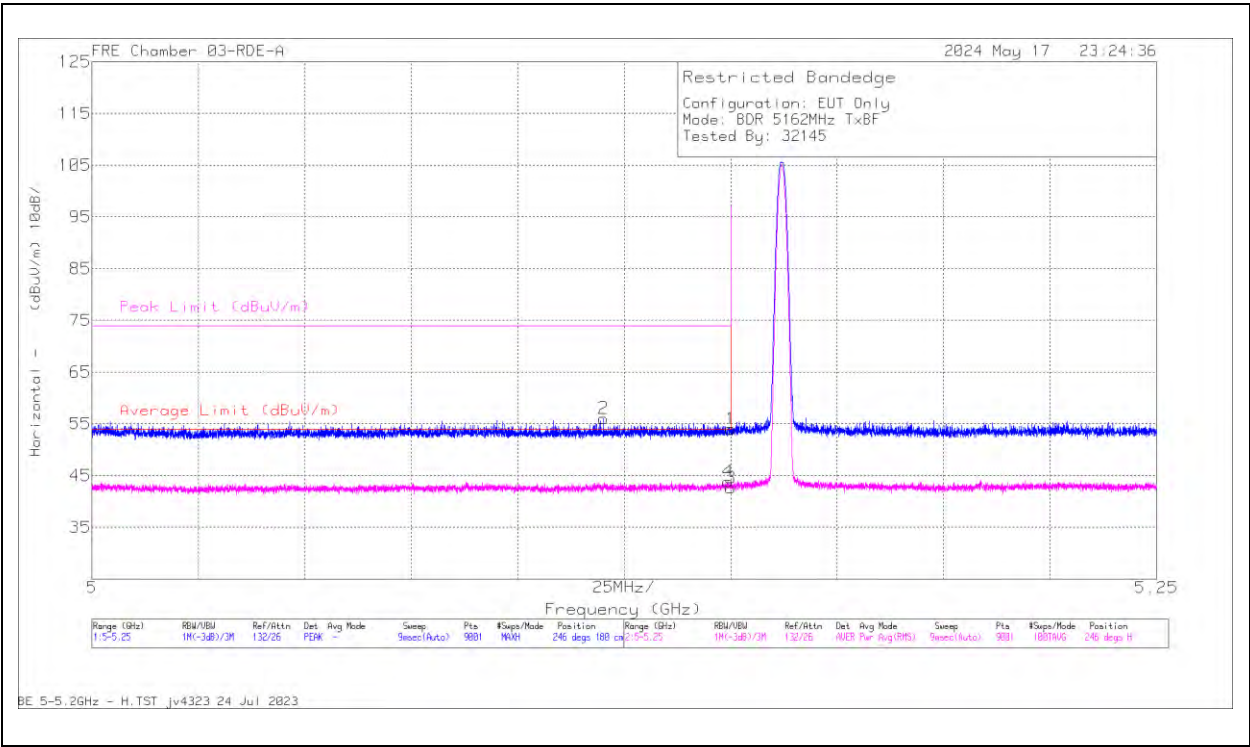
Pk - Peak detector

RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE

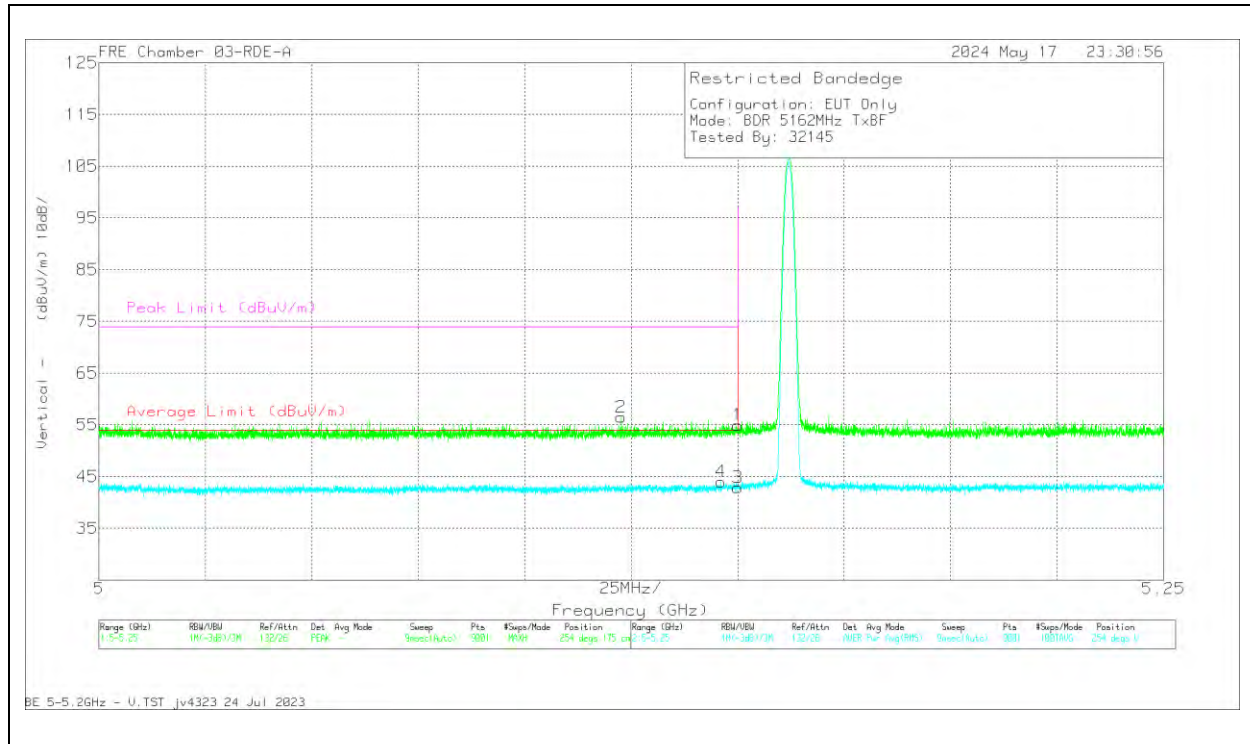
LOW CHANNEL, 5162 MHz

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.08	PK	34.2	-38.28	54	-	-	74	-20	246	180	H
2	* 5.120168	60.16	PK	34.2	-38.33	56.03	-	-	74	-17.97	246	180	H
3	* 5.15	46.71	RMS	34.2	-38.28	42.63	54	-11.37	-	-	246	180	H
4	* 5.14939	47.94	RMS	34.2	-38.27	43.87	54	-10.13	-	-	246	180	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector
RMS - RMS detection

VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	59.05	Pk	34.2	-38.28	54.97	-	-	74	-19.03	254	175	V
2	* 5.122612	60.7	Pk	34.2	-38.4	56.5	-	-	74	-17.5	254	175	V
3	* 5.15	46.94	RMS	34.2	-38.28	42.86	54	-11.14	-	-	254	175	V
4	* 5.146085	48.07	RMS	34.2	-38.27	44	54	-10	-	-	254	175	V

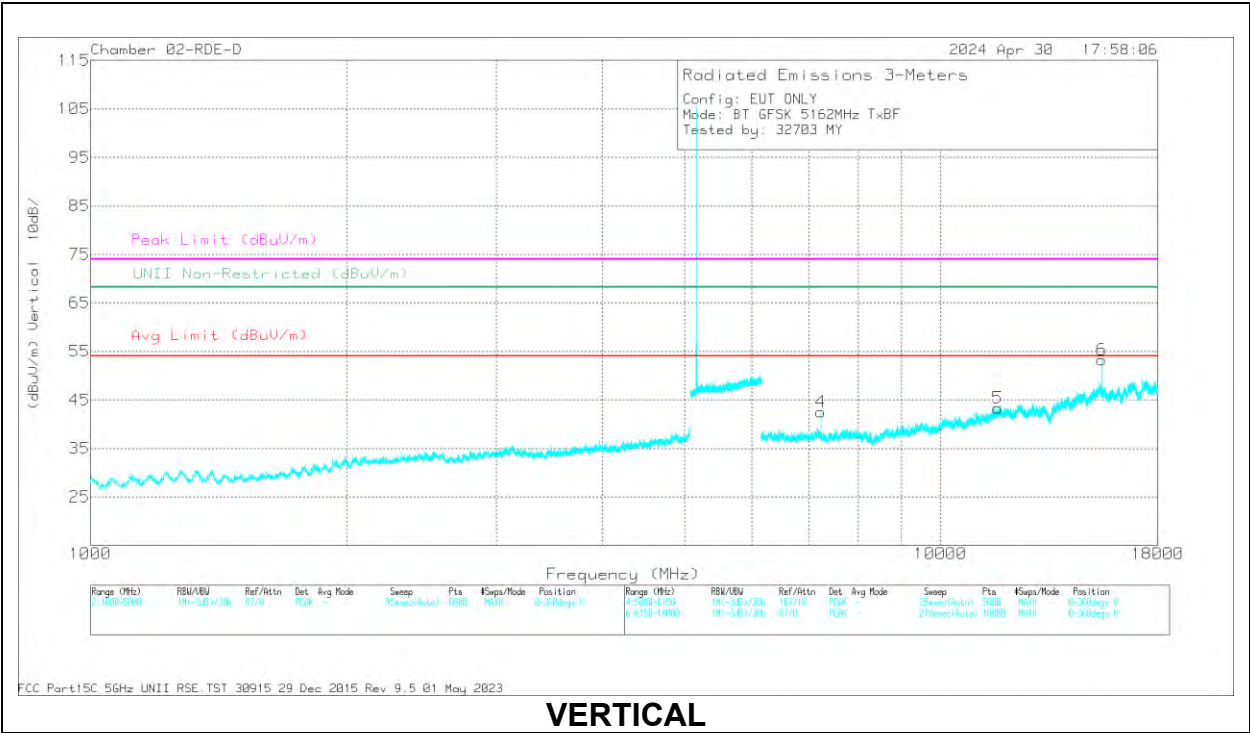
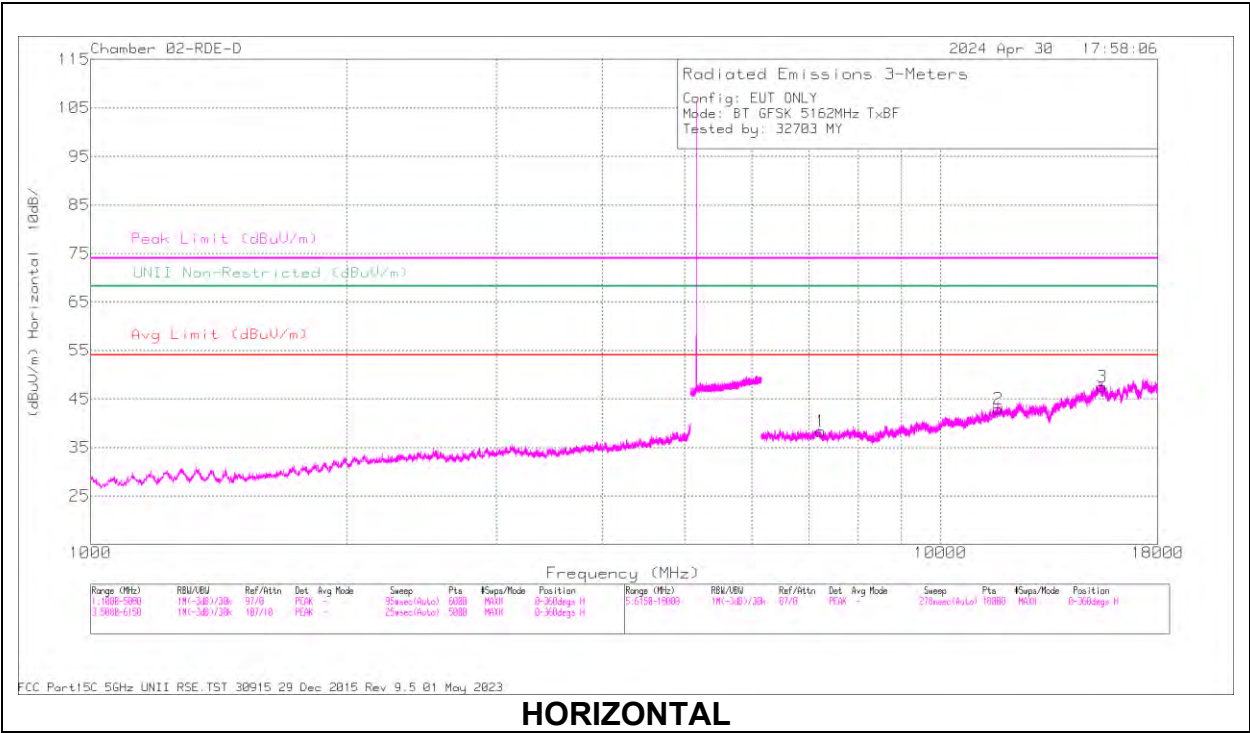
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.2. BDR HIGH POWER, UNII-1 BAND, MIMO TXBF MODE, HARMONIC AND SPURIOUS

LOW CHANNEL, 5162 MHz



RADIATED EMISSIONS

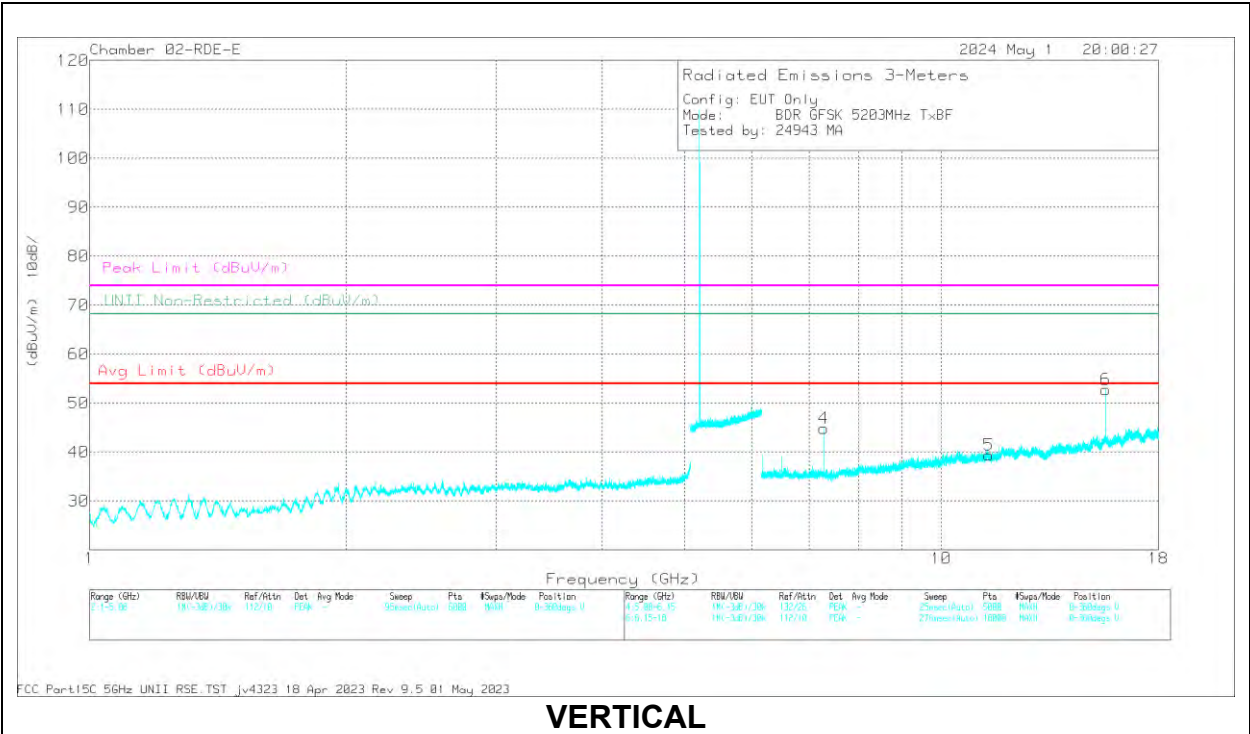
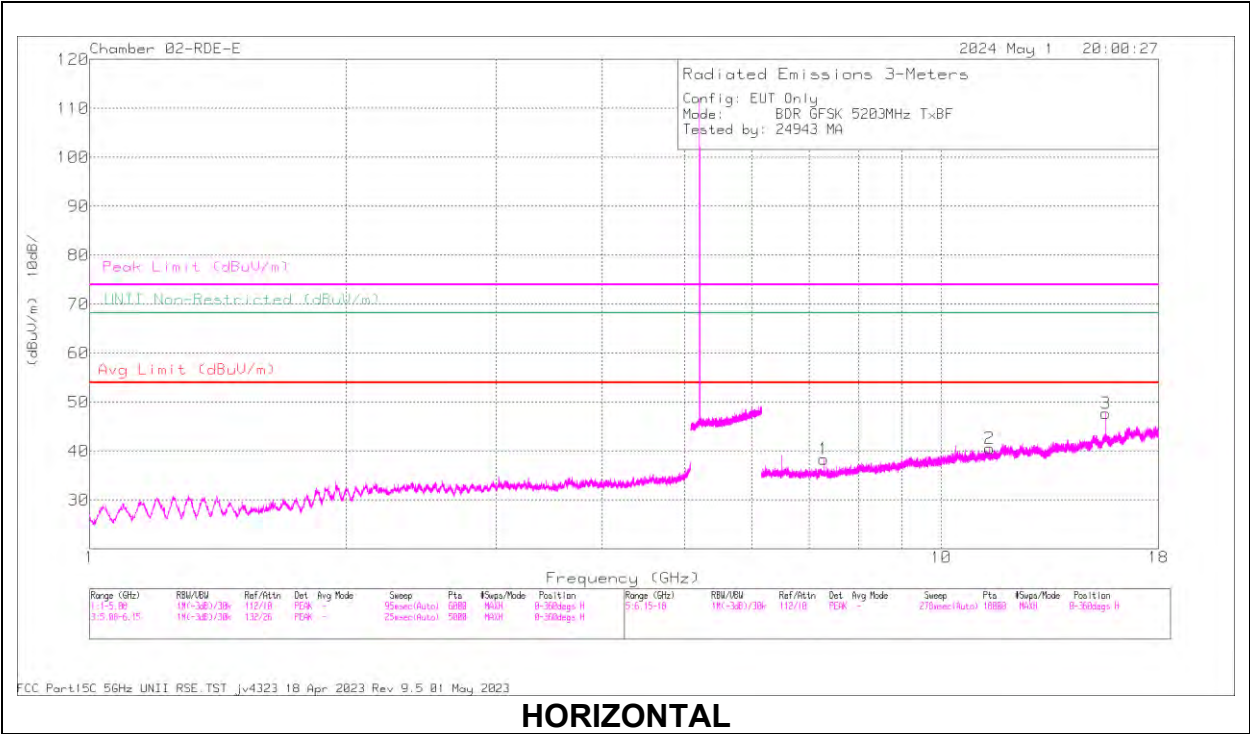
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11696.20	31.79	PK-U	38.6	-19.4	50.99	-	-	74	-23.01	-	-	9	195	H
	* 11693.78	18.32	ADR	38.6	-19.3	37.62	54	-16.38	-	-	-	-	9	195	H
3	* 15489.30	30.91	PK-U	39.8	-16.5	54.21	-	-	74	-19.79	-	-	11	104	H
	* 15492.42	17.73	ADR	39.8	-16.3	41.23	54	-12.77	-	-	-	-	11	104	H
5	* 11668.36	31.66	PK-U	38.5	-18.9	51.26	-	-	74	-22.74	-	-	49	105	V
	* 11669.30	18.13	ADR	38.5	-18.8	37.83	54	-16.17	-	-	-	-	49	105	V
6	* 15485.56	34.41	PK-U	39.7	-16.6	57.51	-	-	74	-16.49	-	-	23	114	V
	* 15485.95	26.49	ADR	39.7	-16.6	49.59	54	-4.41	-	-	-	-	23	114	V
1	7225.715	34.25	PK-U	35.5	-22.9	46.85	-	-	-	-	68.2	-21.35	9	191	H
4	7226.965	36.59	PK-U	35.5	-23	49.09	-	-	-	-	68.2	-19.11	48	104	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, 5203 MHz

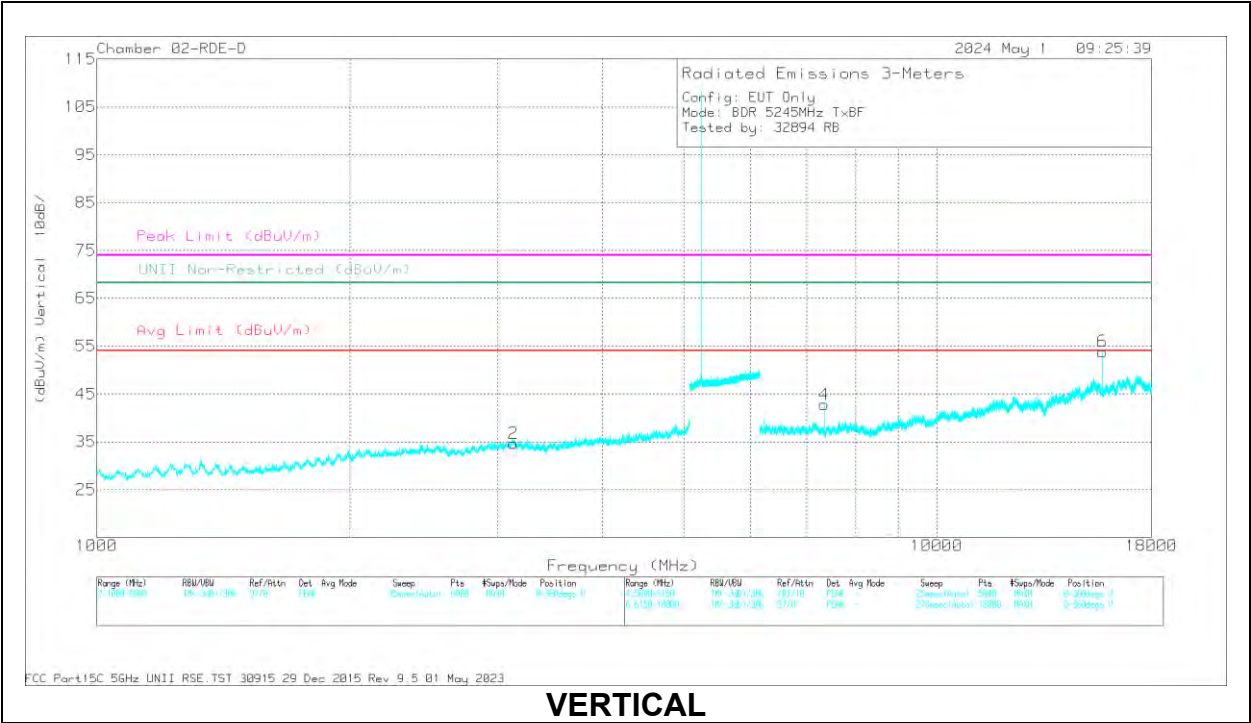
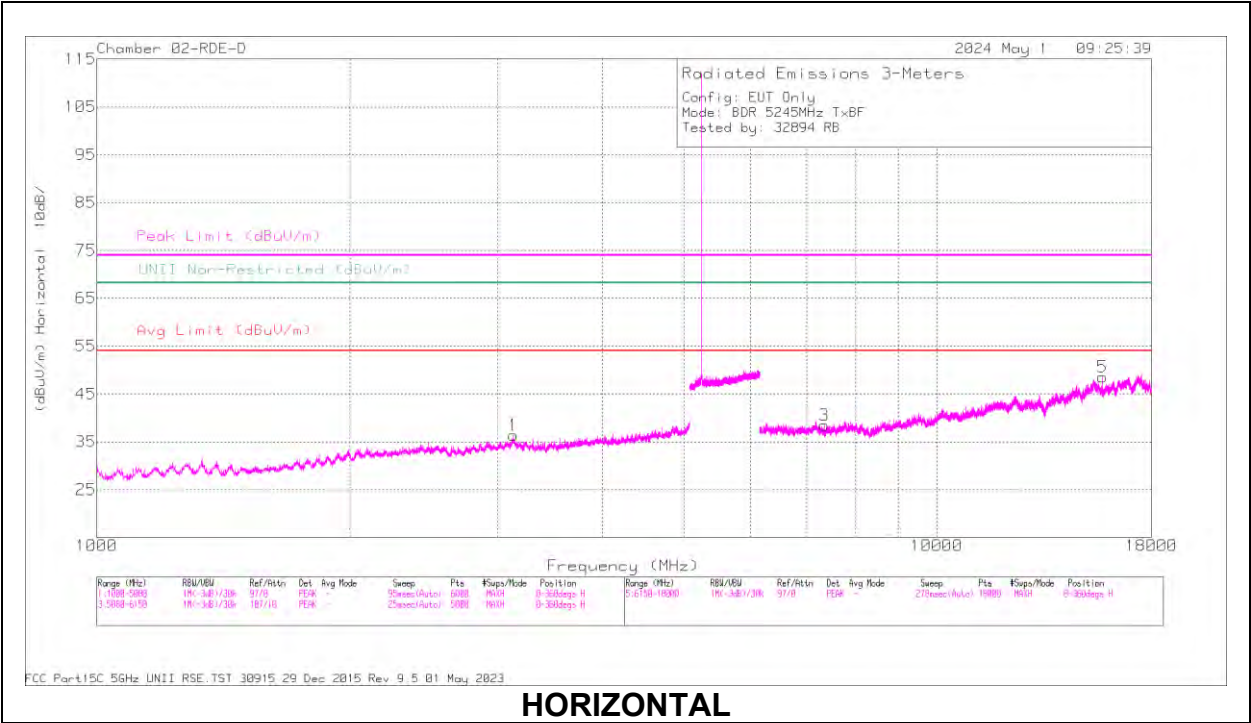


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.283906	57.53	PK-U	35.6	-44.92	48.21	-	-	74	-25.79	98	361	H
	* 7.284004	48.05	ADR	35.6	-44.92	38.73	54	-15.27	-	-	98	361	H
2	* 11.398045	53.02	PK-U	38.2	-42.49	48.73	-	-	74	-25.27	98	200	H
	* 11.397888	41.29	ADR	38.2	-42.49	37	54	-17	-	-	98	200	H
3	* 15.608661	55.21	PK-U	40.4	-40.84	54.77	-	-	74	-19.23	228	101	H
	* 15.608975	47.33	ADR	40.4	-40.83	46.9	54	-7.1	-	-	228	101	H
4	* 7.284285	60.46	PK-U	35.6	-44.92	51.14	-	-	74	-22.86	159	102	V
	* 7.284136	53.9	ADR	35.6	-44.92	44.58	54	-9.42	-	-	159	102	V
5	* 11.373514	52.91	PK-U	38.2	-42.31	48.8	-	-	74	-25.2	159	102	V
	* 11.373333	41.19	ADR	38.1	-42.3	36.99	54	-17.01	-	-	159	102	V
6	* 15.608518	57.84	PK-U	40.4	-40.84	57.4	-	-	74	-16.6	130	115	V
	* 15.608839	52.63	ADR	40.4	-40.83	52.2	54	-1.8	-	-	130	115	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, 5245 MHz



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (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
3	* 7343.113	36.95	PK-U	35.5	-24.3	48.15	-	-	74	-25.85	-	-	306	381	H
	* 7342.94	25.96	ADR	35.5	-24.3	37.16	54	-16.84	-	-	-	-	306	381	H
5	* 15735.11	34.71	PK-U	40	-16.9	57.81	-	-	74	-16.19	-	-	121	171	H
	* 15734.99	24.03	ADR	40	-16.9	47.13	54	-6.87	-	-	-	-	121	171	H
4	* 7343.116	38.75	PK-U	35.5	-24.3	49.95	-	-	74	-24.05	-	-	45	109	V
	* 7343.093	30.04	ADR	35.5	-24.3	41.24	54	-12.76	-	-	-	-	45	109	V
6	* 15735.18	36.26	PK-U	40	-16.9	59.36	-	-	74	-14.64	-	-	352	131	V
	* 15734.99	29.16	ADR	40	-16.9	52.26	54	-1.74	-	-	-	-	352	131	V
2	3133.663	39.59	PK-U	33	-26.5	46.09	-	-	-	-	68.2	-22.11	360	200	V
1	3136.864	38.96	PK-U	33	-26.5	45.46	-	-	-	-	68.2	-22.74	360	101	H

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

PK-U - U-NII: Maximum Peak

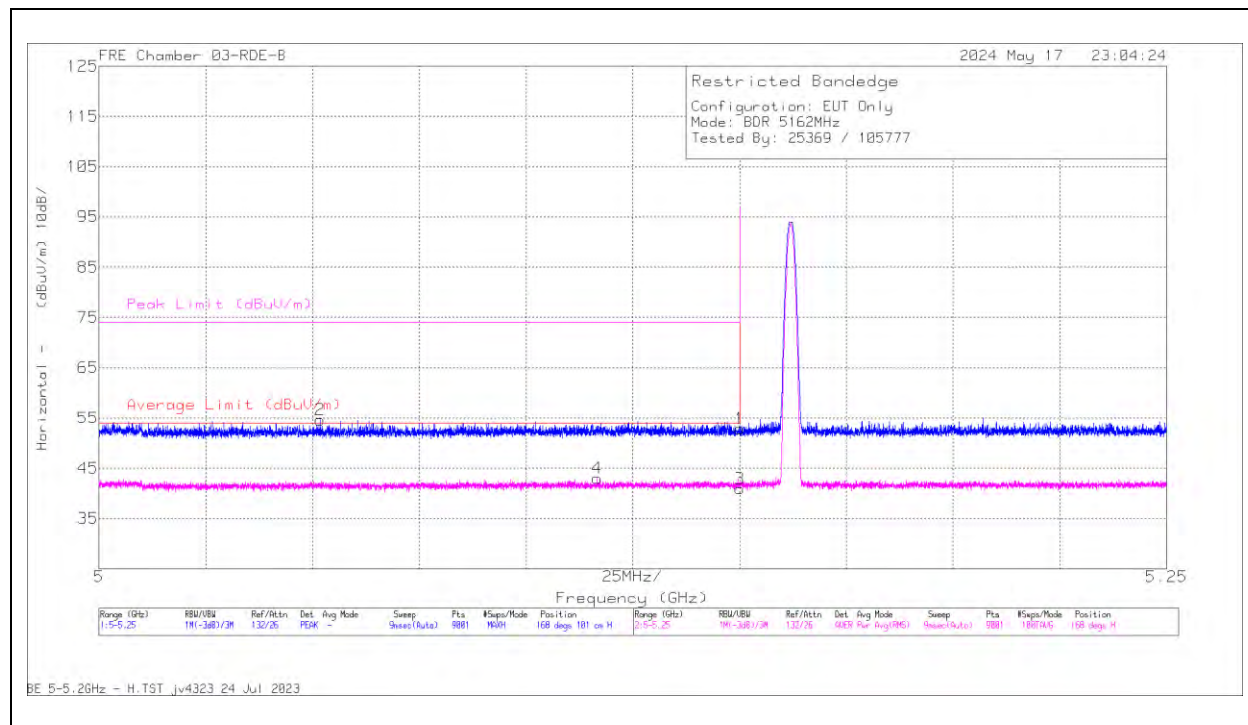
ADR - U-NII AD primary method, RMS average

10.1.3. BDR LOW POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

HORIZONTAL RESULT



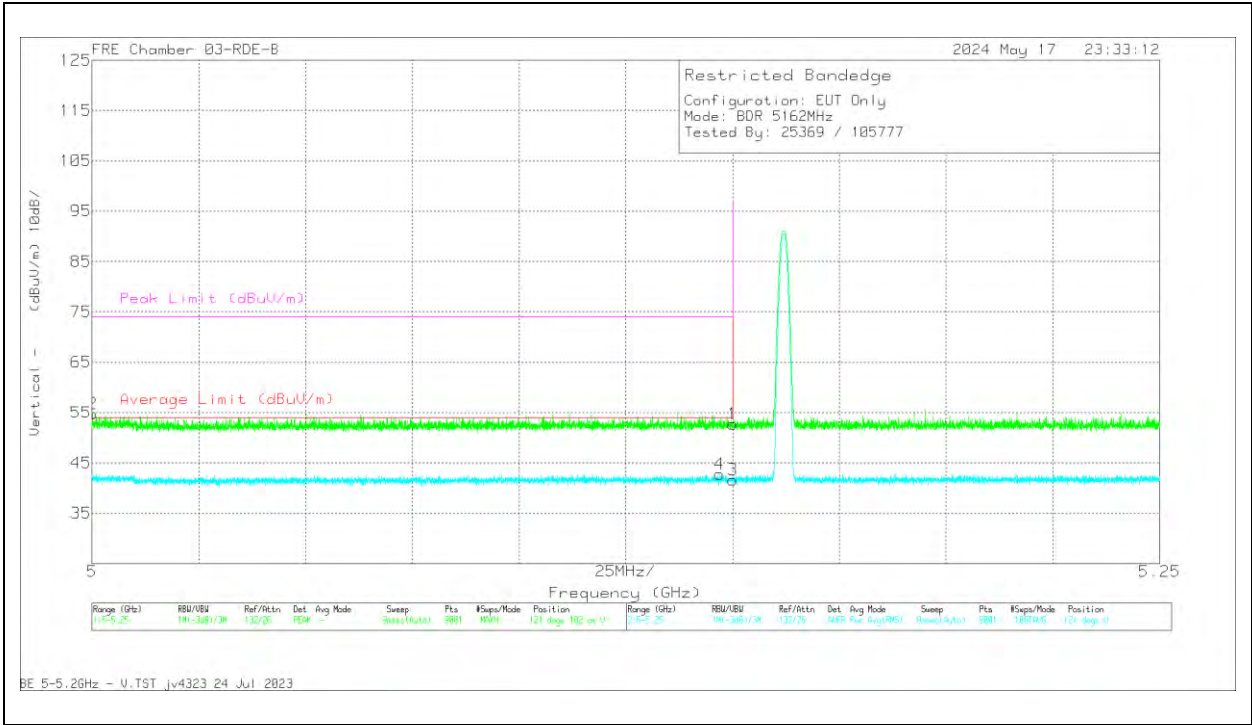
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.9	Pk	34.3	-40.3	52.9	-	-	74	-21.1	168	101	H
2	* 5.051806	60.71	Pk	34.2	-40.3	54.61	-	-	74	-19.39	168	101	H
3	* 5.15	46.93	RMS	34.3	-40.3	40.93	54	-13.07	-	-	168	101	H
4	* 5.116723	49.06	RMS	34.3	-40.3	43.06	54	-10.94	-	-	168	101	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



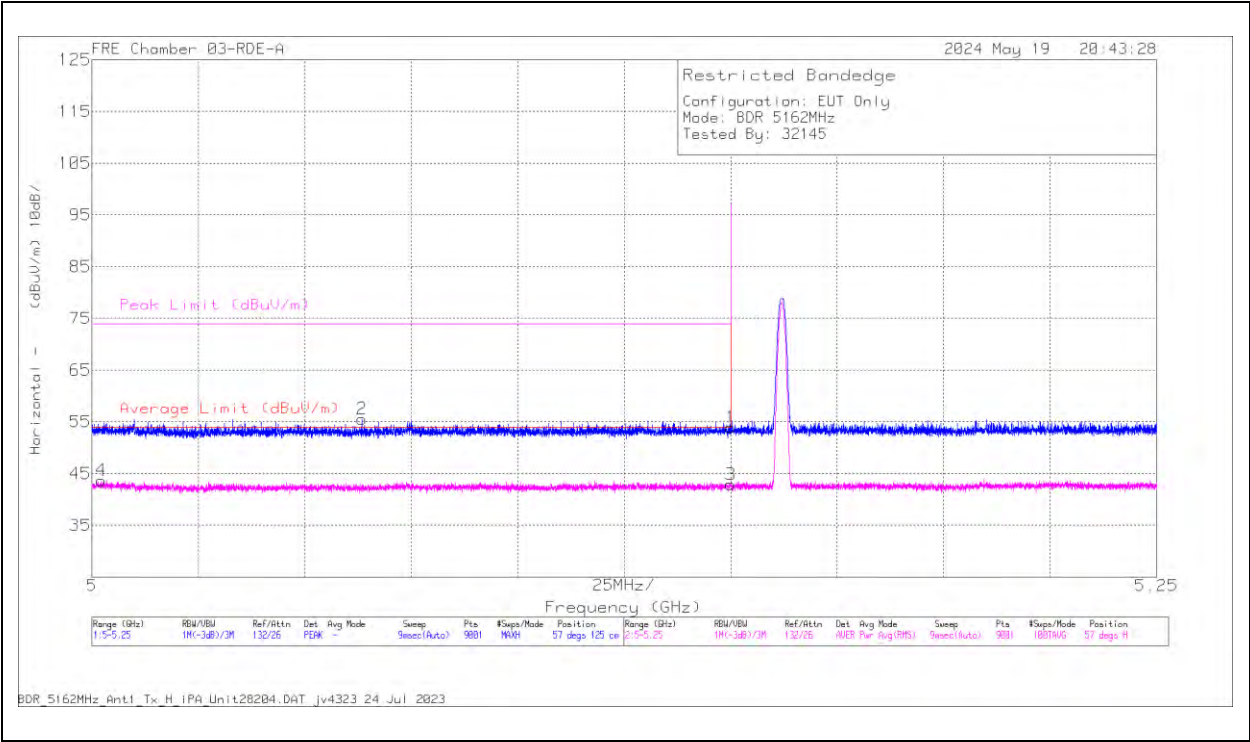
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.78	Pk	34.3	-40.3	52.78	-	-	74	-21.22	121	102	V
2	* 5.000083	61.02	Pk	34.1	-40.41	54.71	-	-	74	-19.29	121	102	V
3	* 5.15	47.6	RMS	34.3	-40.3	41.6	54	-12.4	-	-	121	102	V
4	* 5.146946	48.71	RMS	34.3	-40.2	42.81	54	-11.19	-	-	121	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5, SISO MODE

LOW CHANNEL, 5162 MHz

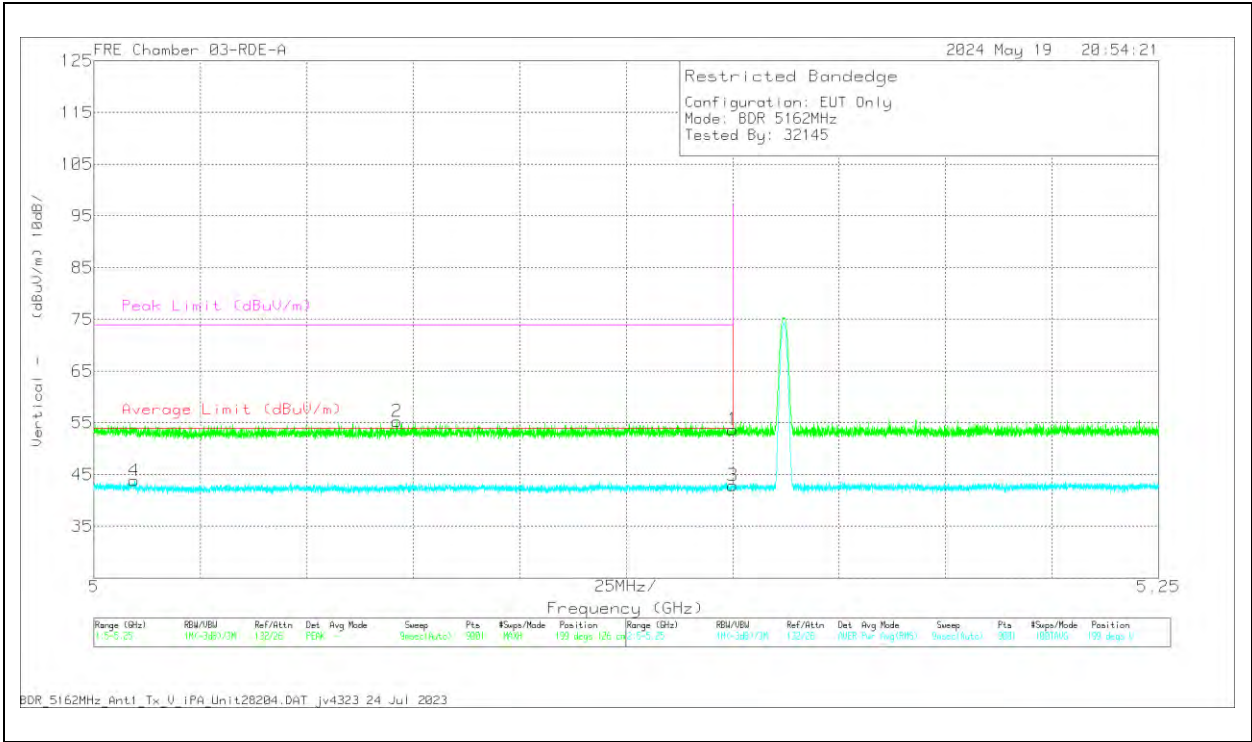
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.99	Pk	34.2	-38.28	53.91	-	-	74	-20.09	57	125	H
2	* 5.063417	59.74	Pk	34.1	-38.31	55.53	-	-	74	-18.47	57	125	H
3	* 5.15	46.94	RMS	34.2	-38.28	42.86	54	-11.14	-	-	57	125	H
4	* 5.002194	47.89	RMS	34	-38.22	43.67	54	-10.33	-	-	57	125	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



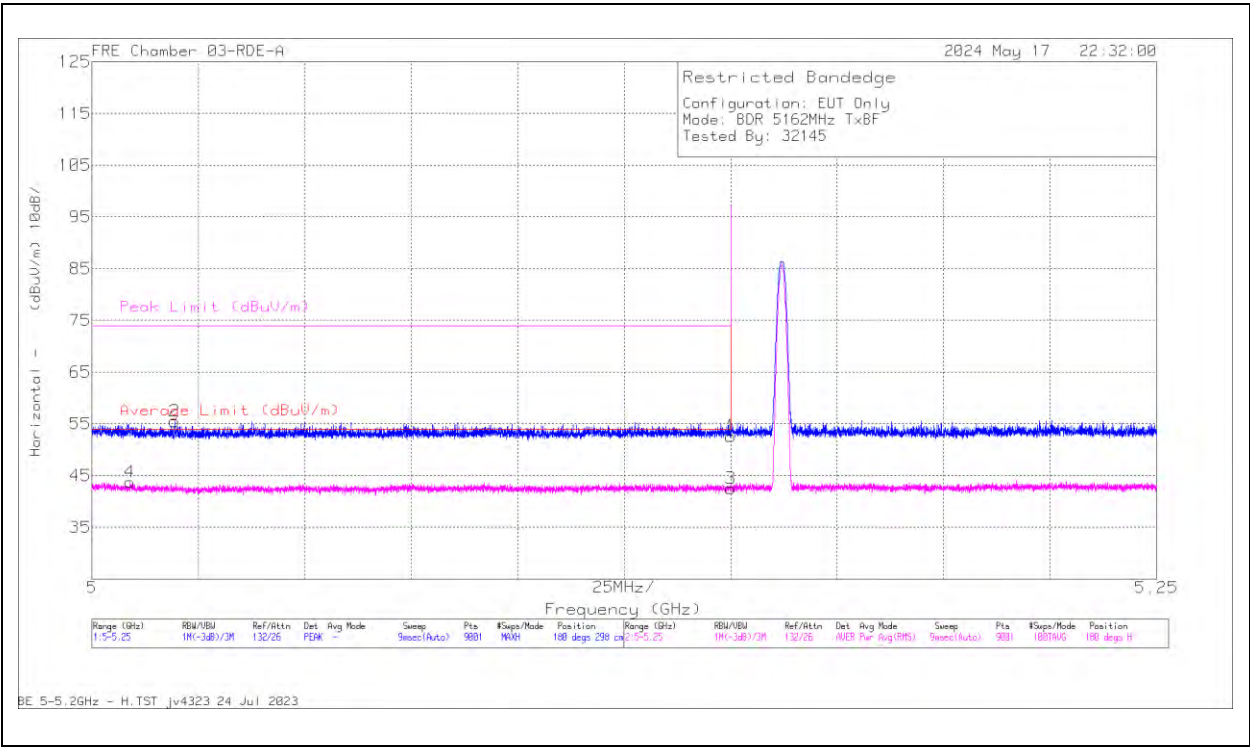
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.8	Pk	34.2	-38.28	53.72	-	-	74	-20.28	199	126	V
2	* 5.071139	59.57	Pk	34.1	-38.38	55.29	-	-	74	-18.71	199	126	V
3	* 5.15	46.99	RMS	34.2	-38.28	42.91	54	-11.09	-	-	199	126	V
4	* 5.009445	48.2	RMS	34	-38.35	43.85	54	-10.15	-	-	199	126	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE

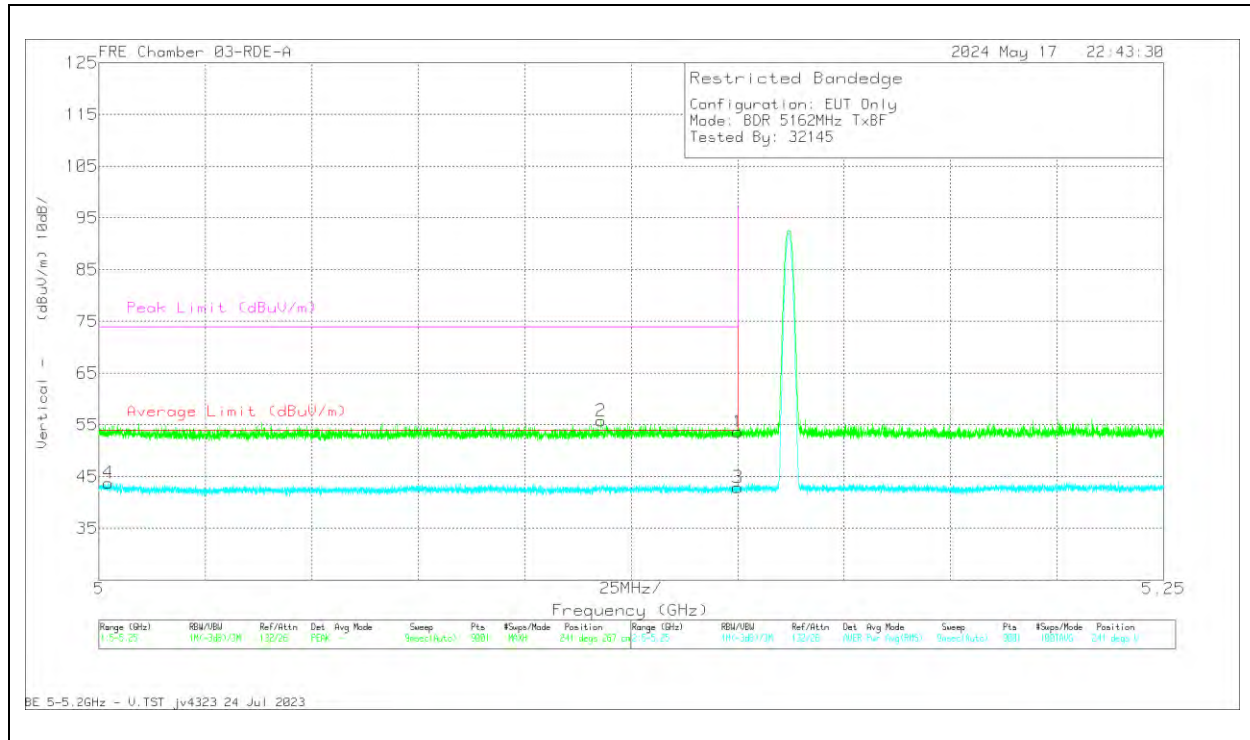
LOW CHANNEL, 5162 MHz

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	56.67	Pk	34.2	-38.28	52.59	-	-	74	-21.41	180	298	H
2	* 5.019417	59.75	Pk	34	-38.26	55.49	-	-	74	-18.51	180	298	H
3	* 5.15	46.58	RMS	34.2	-38.28	42.5	54	-11.5	-	-	180	298	H
4	* 5.008889	48.1	RMS	34	-38.36	43.74	54	-10.26	-	-	180	298	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.74	Pk	34.2	-38.28	53.66	-	-	74	-20.34	241	267	V
2	* 5.117862	59.92	Pk	34.2	-38.34	55.78	-	-	74	-18.22	241	267	V
3	* 5.15	47	RMS	34.2	-38.28	42.92	54	-11.08	-	-	241	267	V
4	* 5.002194	48	RMS	34	-38.22	43.78	54	-10.22	-	-	241	267	V

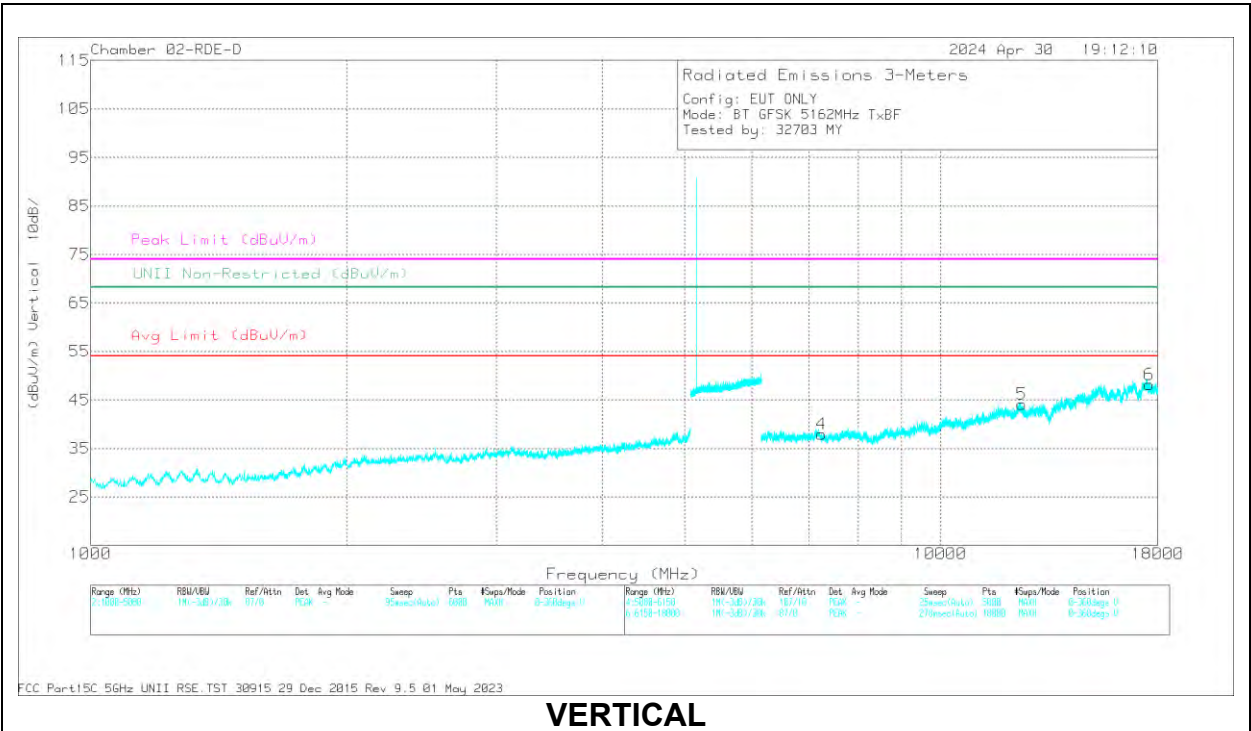
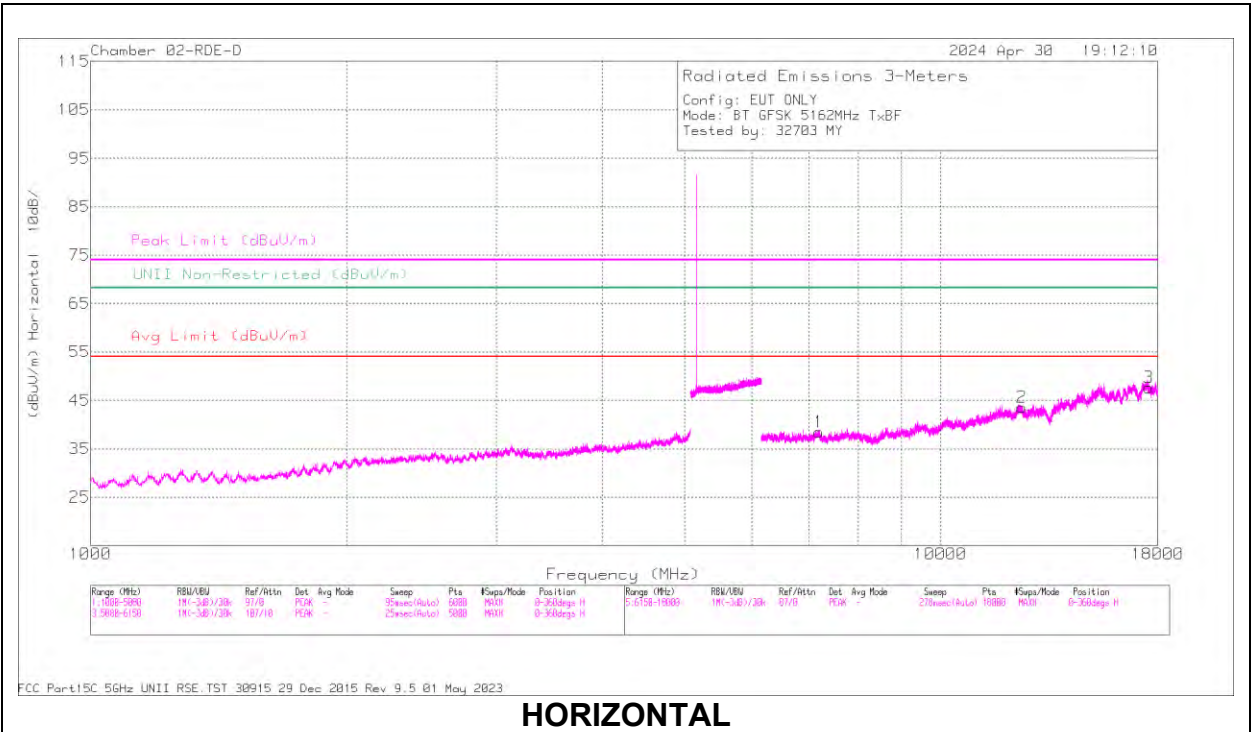
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.4. BDR LOW POWER, UNII-1 BAND, MIMO TXBF MODE, HARMONIC AND SPURIOUS

LOW CHANNEL, 5162 MHz



RADIATED EMISSIONS

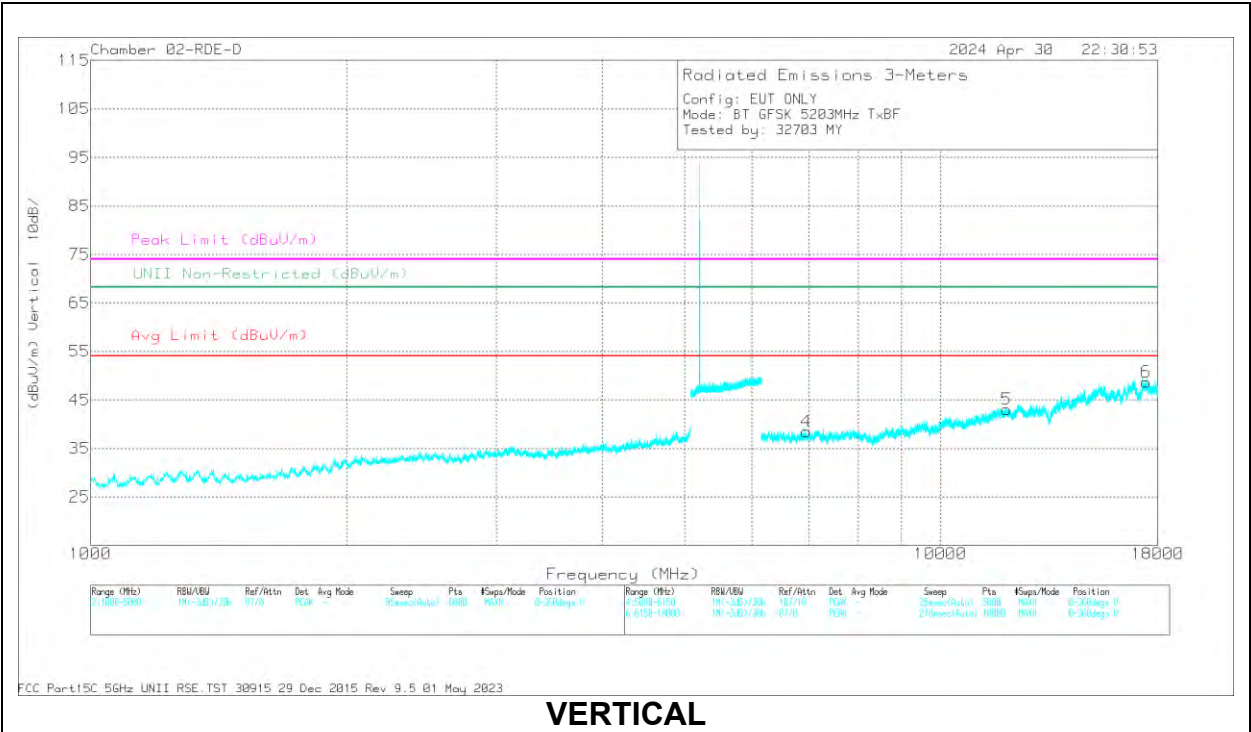
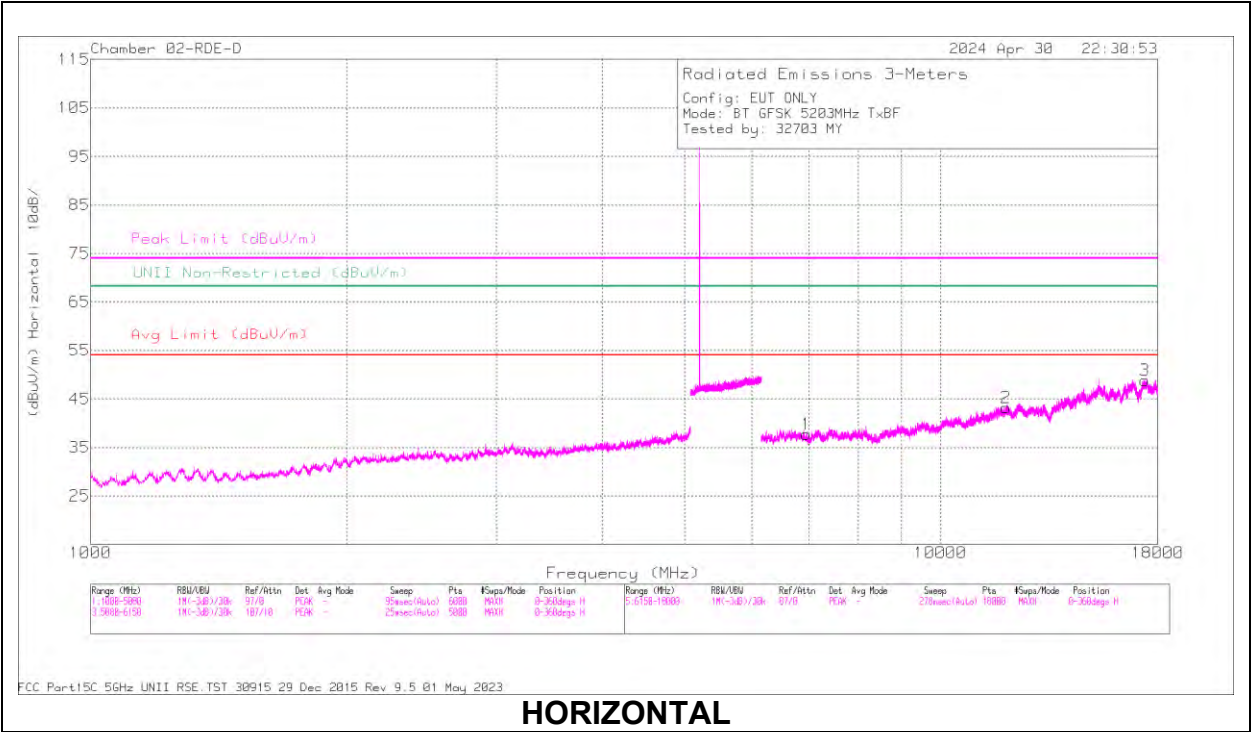
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 12452.23	32.28	PK-U	38.9	-19.9	51.28	-	-	74	-22.72	-	-	14	189	H
	* 12454.27	19.16	ADR	38.9	-19.9	38.16	54	-15.84	-	-	-	-	14	189	H
5	* 12460.80	32.52	PK-U	38.9	-19.9	51.52	-	-	74	-22.48	-	-	16	106	V
	* 12461.18	19.31	ADR	38.9	-19.9	38.31	54	-15.69	-	-	-	-	16	106	V
1	7198.106	32.8	PK-U	35.5	-22.1	46.2	-	-	-	-	68.2	-22	10	187	H
4	7239.969	33.8	PK-U	35.5	-22.8	46.5	-	-	-	-	68.2	-21.7	21	192	V
3	17567.387	30.38	PK-U	41.1	-16.2	55.28	-	-	-	-	68.2	-12.92	16	187	H
6	17596.736	31.37	PK-U	41.1	-16.3	56.17	-	-	-	-	68.2	-12.03	20	104	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, 5203 MHz

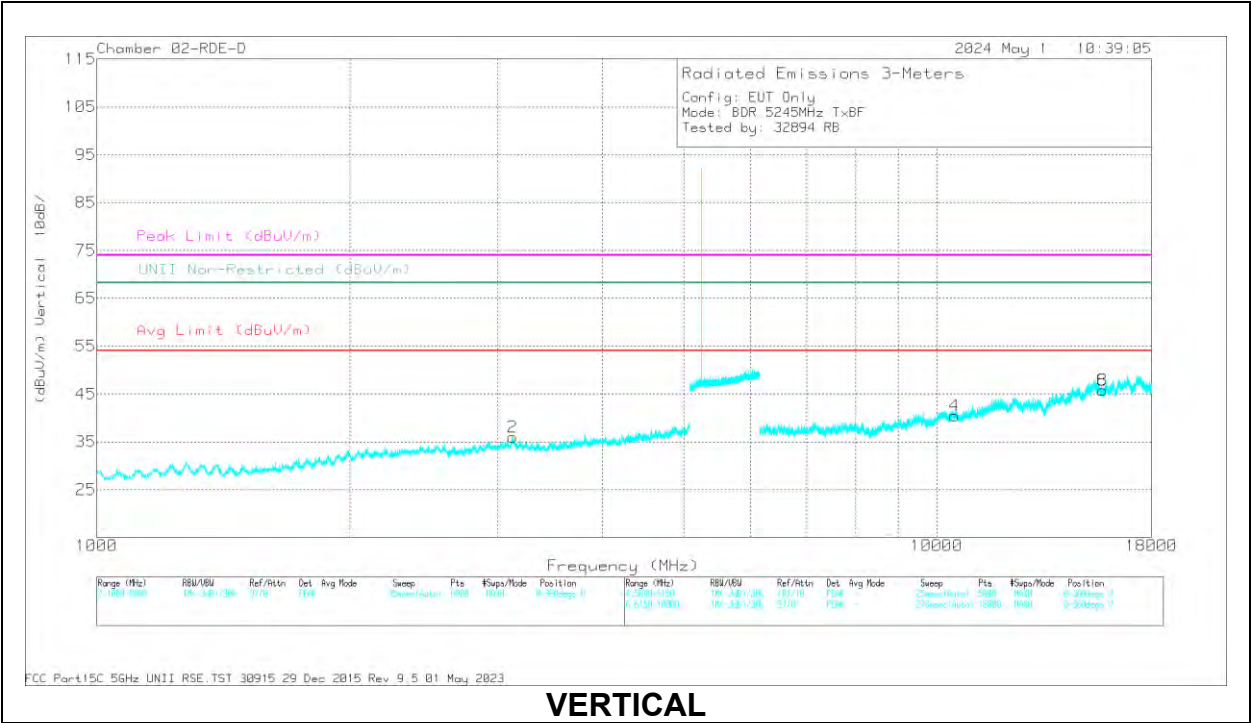
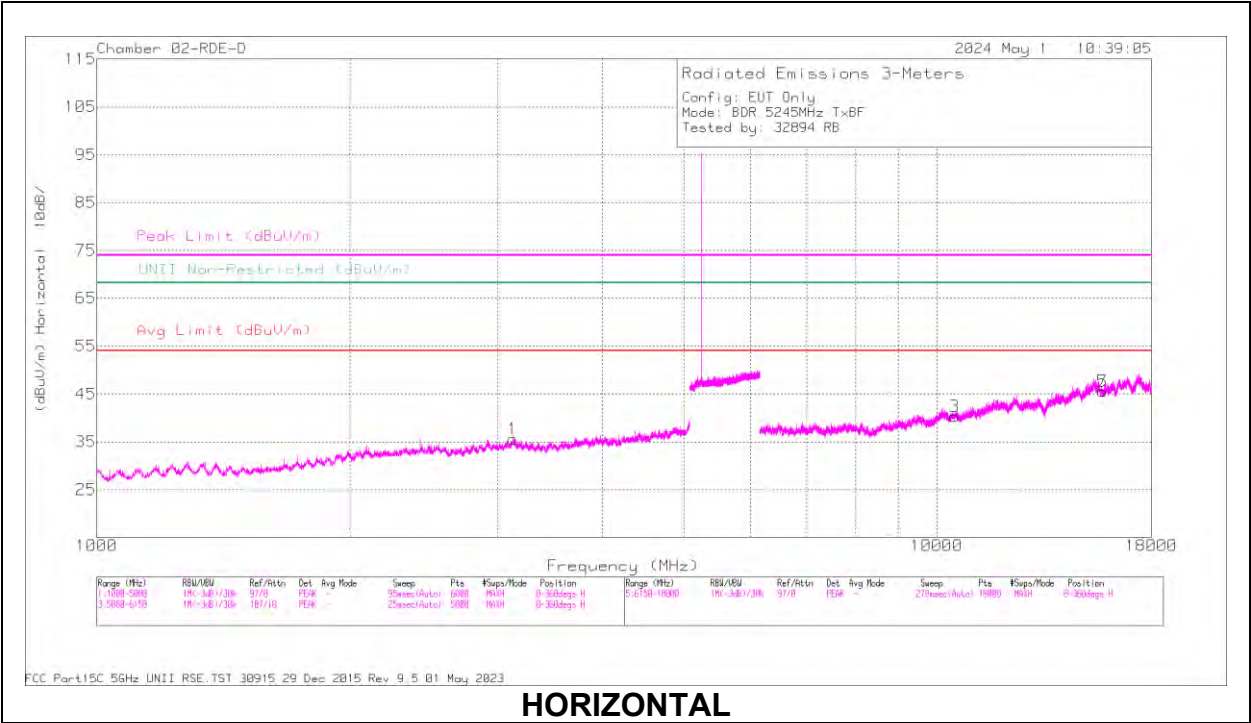


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (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	* 11937.53	32.61	PK-U	38.8	-20.3	51.11	-	-	74	-22.89	-	-	11	186	H
	* 11936.53	19.64	ADR	38.8	-20.4	38.04	54	-15.96	-	-	-	-	11	186	H
5	* 11964.52	32.47	PK-U	38.8	-20.2	51.07	-	-	74	-22.93	-	-	13	189	V
	* 11965.48	22.72	ADR	38.8	-20.2	41.32	54	-12.68	-	-	-	-	13	189	V
1	6948.384	34.47	PK-U	35.7	-24	46.17	-	-	-	-	68.2	-22.03	8	190	H
4	6955.583	34.64	PK-U	35.7	-24.1	46.24	-	-	-	-	68.2	-21.96	15	109	V
3	17384.636	31.9	PK-U	41.1	-16.2	56.8	-	-	-	-	68.2	-11.4	13	185	H
6	17450.265	31.39	PK-U	41.1	-16.4	56.09	-	-	-	-	68.2	-12.11	10	194	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, 5245 MHz



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (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
5	* 15735.40	32.37	PK-U	40	-16.9	55.47	-	-	74	-18.53	-	-	360	101	H
	* 15734.96	20.9	ADR	40	-16.9	44	54	-10	-	-	-	-	360	101	H
	* 15735.99	32.52	PK-U	40	-16.8	55.72	-	-	74	-18.28	-	-	360	200	V
6	* 15736.15	20.94	ADR	40	-16.8	44.14	54	-9.86	-	-	-	-	360	200	V
	3129.885	38.75	PK-U	33.1	-26.5	45.35	-	-	-	-	68.2	-22.85	360	101	H
	3131.211	38.73	PK-U	33.1	-26.5	45.33	-	-	-	-	68.2	-22.87	360	101	V
4	10490.394	32.99	PK-U	37.4	-20.2	50.19	-	-	-	-	68.2	-18.01	360	200	V
3	10490.722	33.46	PK-U	37.4	-20.1	50.76	-	-	-	-	68.2	-17.44	360	200	H

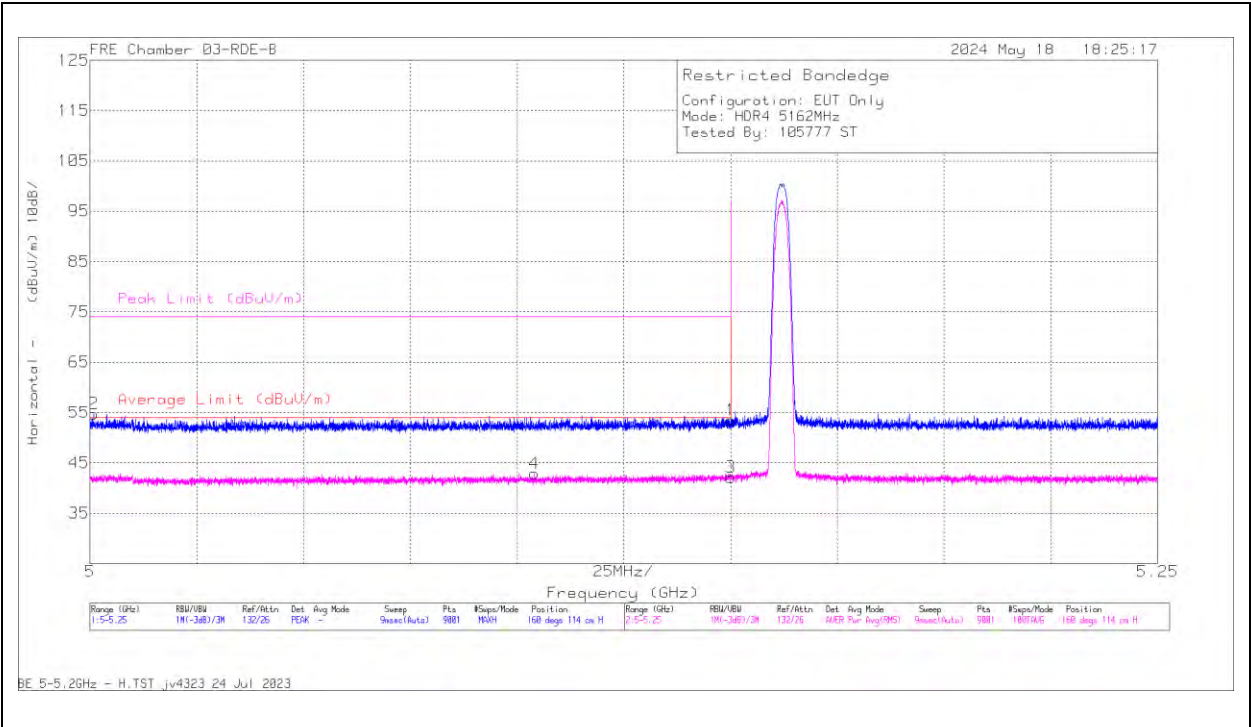
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

10.1.5. HDR 4 HIGH POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

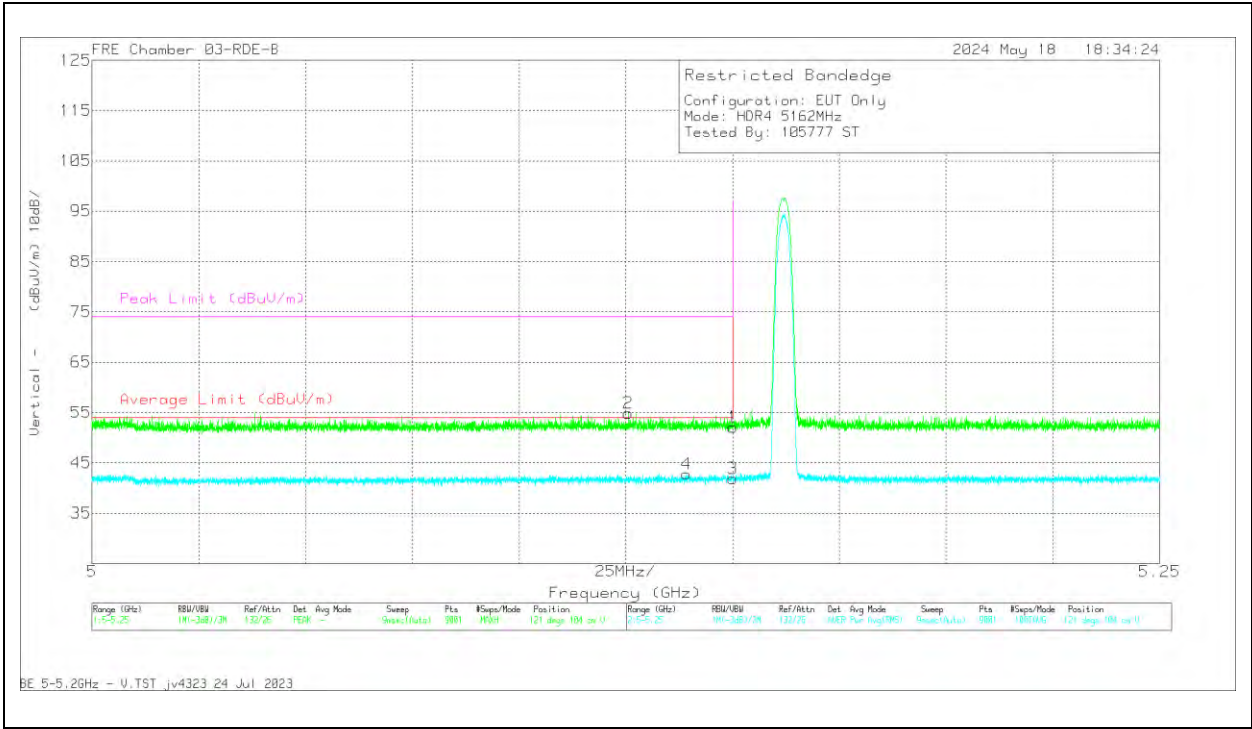
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	59.46	Pk	34.3	-40.3	53.46	-	-	74	-20.54	160	114	H
2	* 5.000861	61.11	Pk	34.1	-40.49	54.72	-	-	74	-19.28	160	114	H
3	* 5.15	48.18	RMS	34.3	-40.3	42.18	54	-11.82	-	-	160	114	H
4	* 5.104056	49.11	RMS	34.2	-40.4	42.91	54	-11.09	-	-	160	114	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



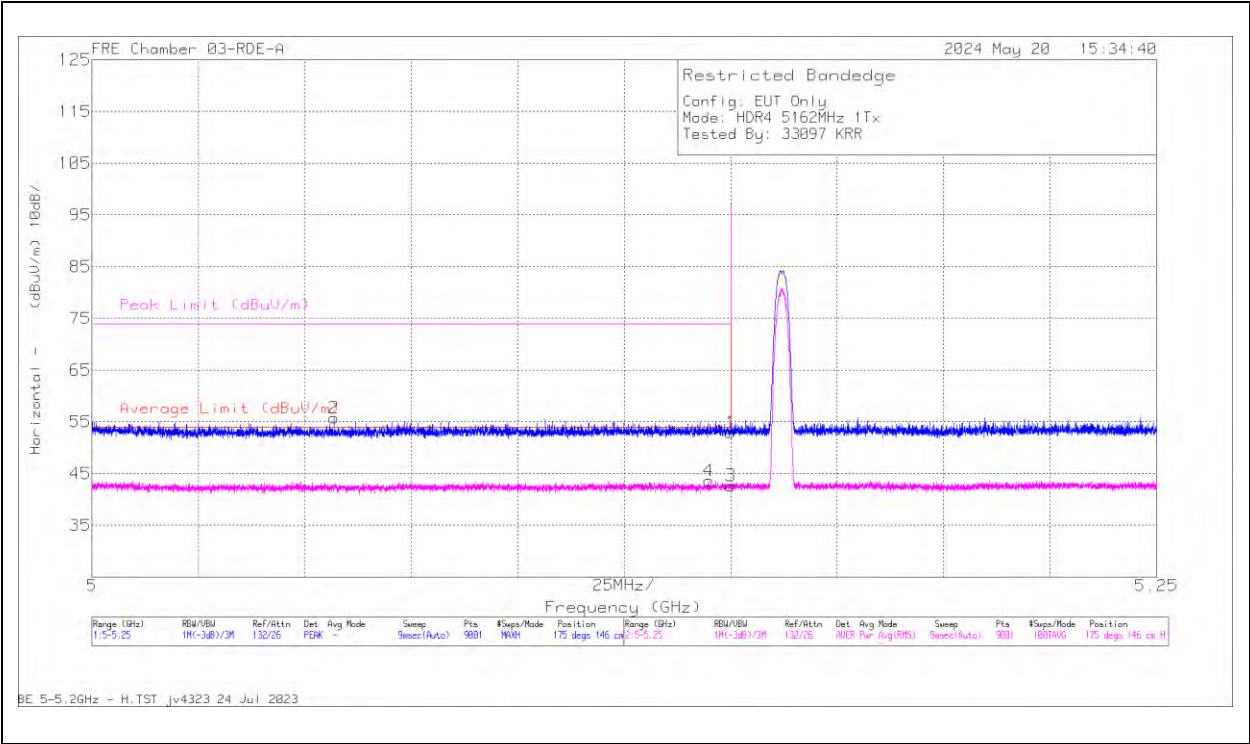
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.12	Pk	34.3	-40.3	52.12	-	-	74	-21.88	121	104	V
2	* 5.125529	60.88	Pk	34.3	-40.3	54.88	-	-	74	-19.12	121	104	V
3	* 5.15	47.84	RMS	34.3	-40.3	41.84	54	-12.16	-	-	121	104	V
4	* 5.139279	48.82	RMS	34.3	-40.3	42.82	54	-11.18	-	-	121	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5, SISO MODE

LOW CHANNEL, 5162 MHz

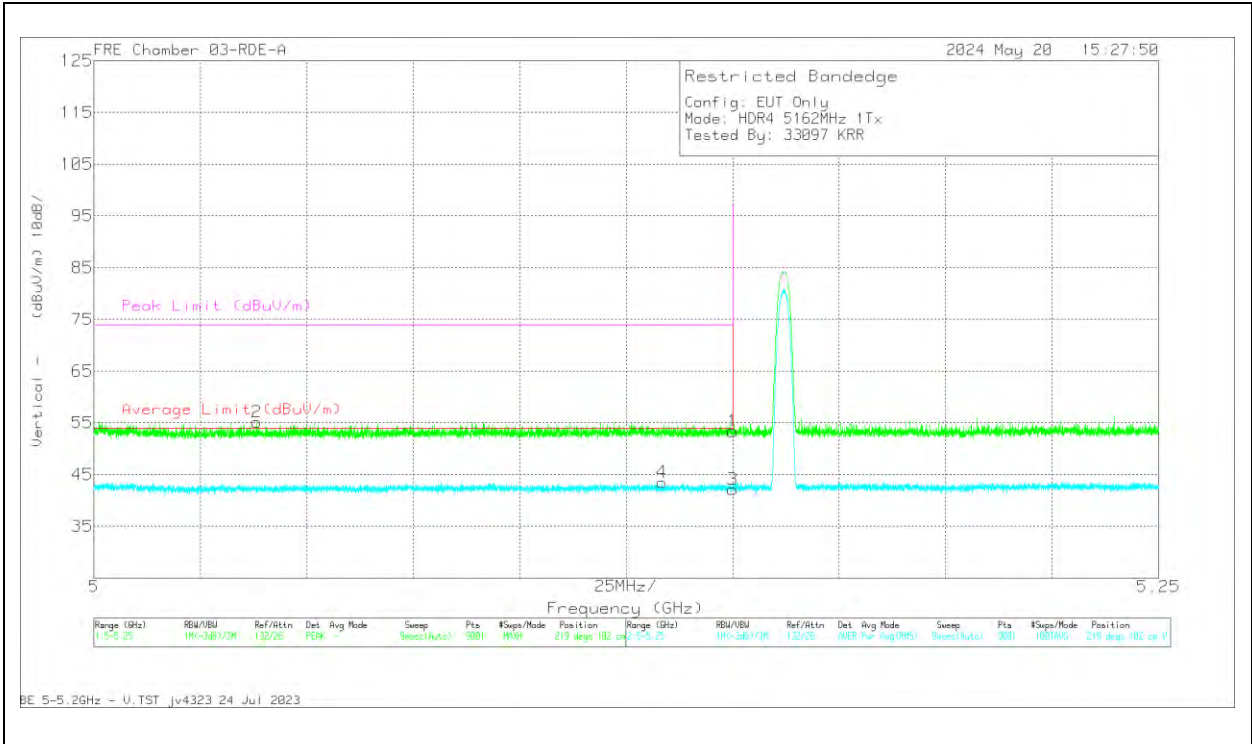
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.03	Pk	34.2	-38.28	52.95	-	-	74	-21.05	175	146	H
2	* 5.056862	60.07	Pk	34	-38.32	55.75	-	-	74	-18.25	175	146	H
3	* 5.15	46.75	RMS	34.2	-38.28	42.67	54	-11.33	-	-	175	146	H
4	* 5.144807	47.72	RMS	34.2	-38.3	43.62	54	-10.38	-	-	175	146	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



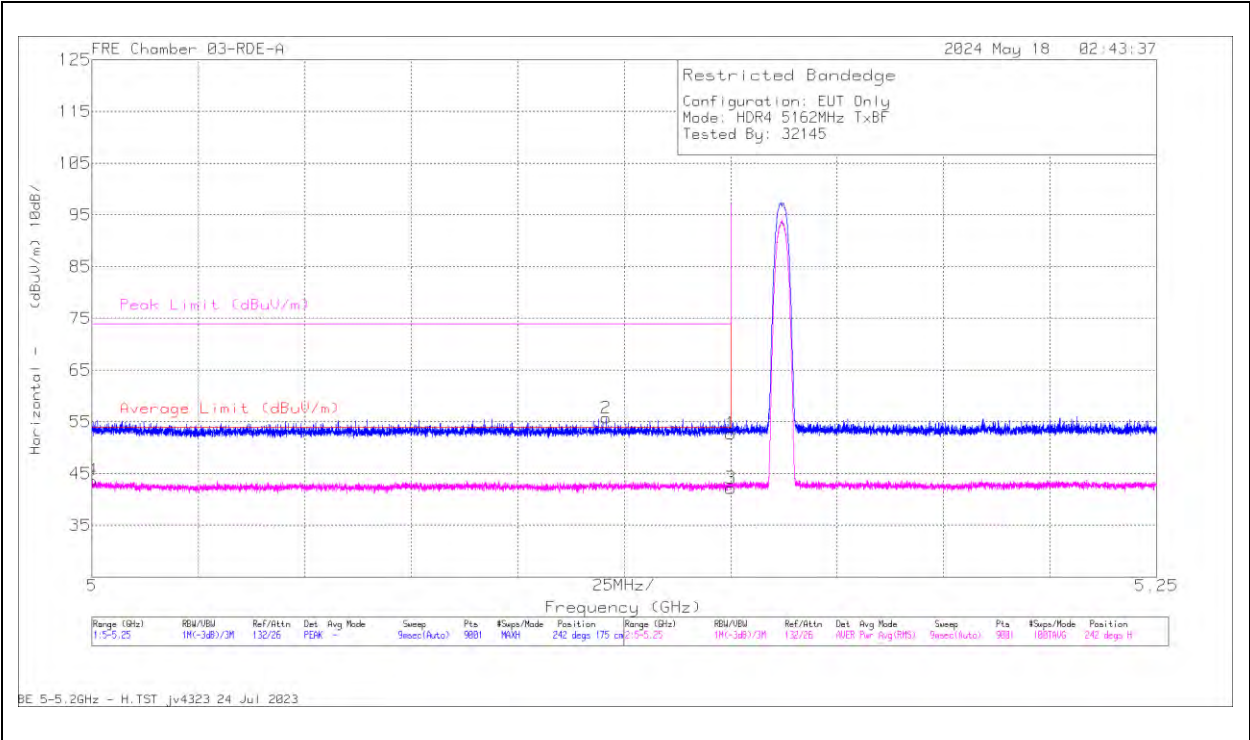
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1	* 5.15	57.47	Pk	34.2	-38.28	53.39	-	-	74	-20.61	219	102	V
2	* 5.038195	59.44	Pk	34	-38.28	55.16	-	-	74	-18.84	219	102	V
3	* 5.15	46.22	RMS	34.2	-38.28	42.14	54	-11.86	-	-	219	102	V
4	* 5.133418	47.71	RMS	34.2	-38.39	43.52	54	-10.48	-	-	219	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE

LOW CHANNEL, 5162 MHz

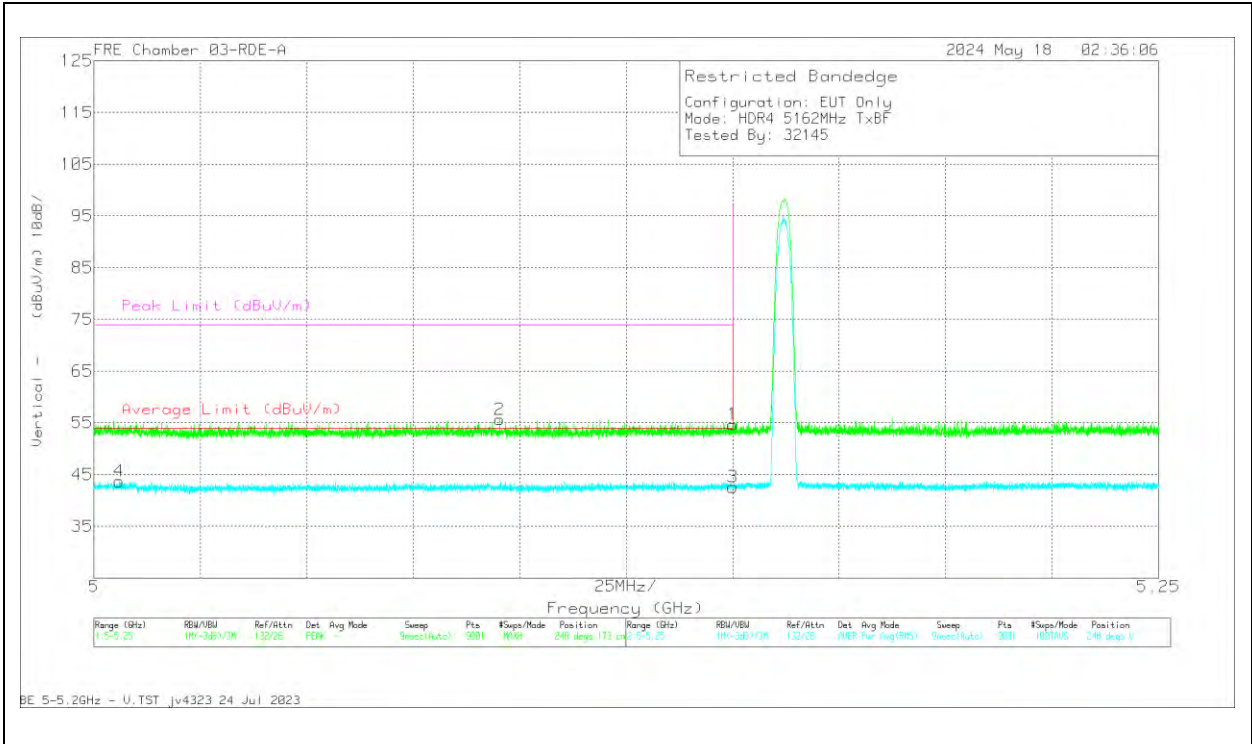
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	56.8	Pk	34.2	-38.28	52.72	-	-	74	-21.28	242	175	H
2	* 5.120751	59.91	Pk	34.2	-38.35	55.76	-	-	74	-18.24	242	175	H
3	* 5.15	46.27	RMS	34.2	-38.28	42.19	54	-11.81	-	-	242	175	H
4	* 5.000111	47.98	RMS	34	-38.3	43.68	54	-10.32	-	-	242	175	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.79	Pk	34.2	-38.28	54.71	-	-	74	-19.29	248	173	V
2	* 5.095251	59.9	Pk	34.1	-38.35	55.65	-	-	74	-18.35	248	173	V
3	* 5.15	46.69	RMS	34.2	-38.28	42.61	54	-11.39	-	-	248	173	V
4	* 5.005917	48.08	RMS	34	-38.37	43.71	54	-10.29	-	-	248	173	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

LOW CHANNEL, 5162 MHz

HORIZONTAL

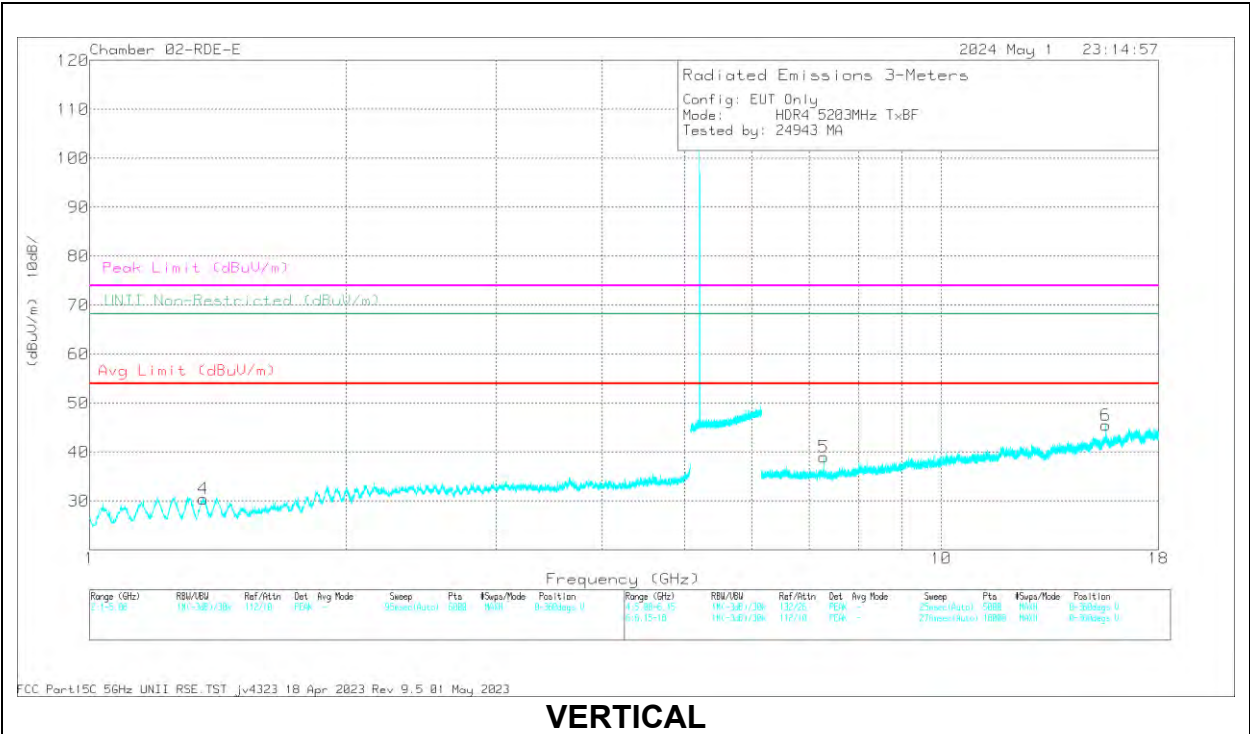
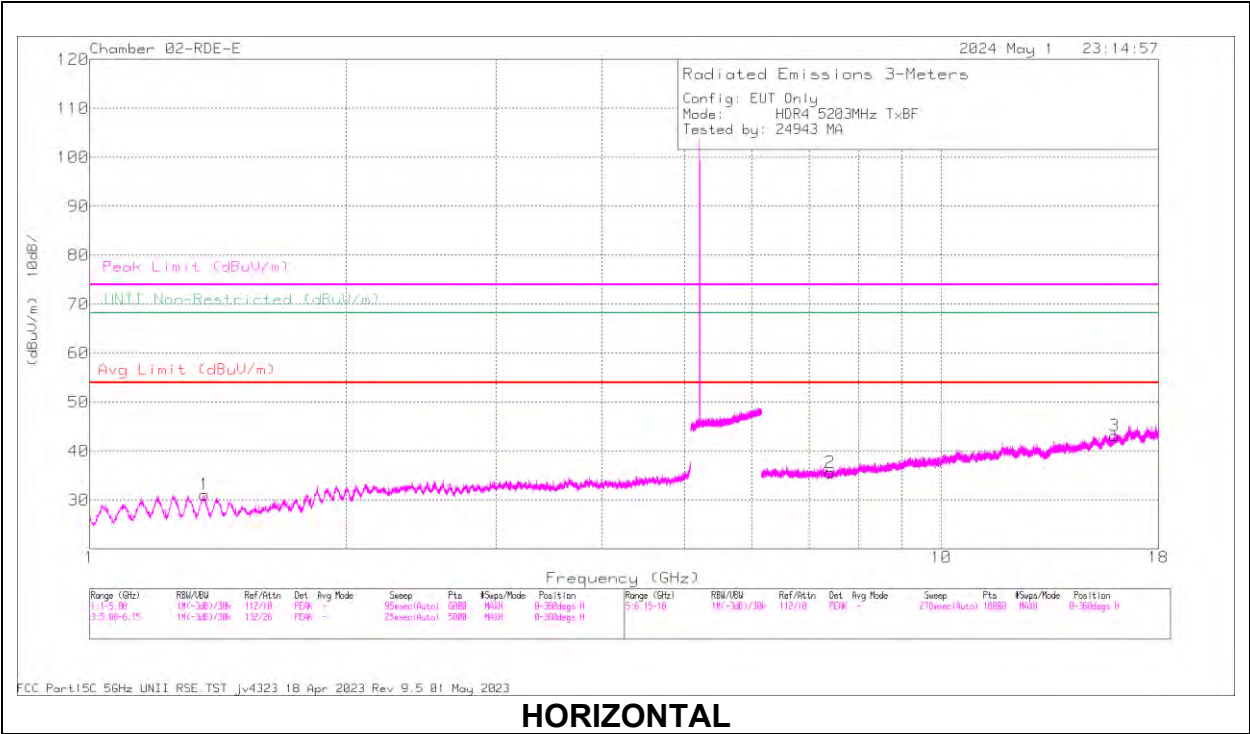
VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.310887	61.16	PK-U	29	-49.45	40.71	-	-	74	-33.29	54	299	H
	* 1.310263	49.57	ADR	29	-49.46	29.11	54	-24.89	-	-	54	299	H
4	* 1.307382	62.39	PK-U	29	-49.49	41.9	-	-	74	-32.1	235	184	V
	* 1.304733	49.8	ADR	29	-49.47	29.33	54	-24.67	-	-	235	184	V
2	* 8.168752	55.15	PK-U	35.9	-44.51	46.54	-	-	74	-27.46	179	389	H
	* 8.168965	44.15	ADR	35.9	-44.51	35.54	54	-18.46	-	-	179	389	H
3	* 11.947674	54.16	PK-U	38.7	-42.91	49.95	-	-	74	-24.05	37	323	H
	* 11.950858	42.63	ADR	38.7	-42.86	38.47	54	-15.53	-	-	37	323	H
5	* 8.157031	55.31	PK-U	35.9	-44.43	46.78	-	-	74	-27.22	88	281	V
	* 8.157176	43.65	ADR	35.9	-44.43	35.12	54	-18.88	-	-	88	281	V
6	* 11.831048	54.3	PK-U	38.6	-43.04	49.86	-	-	74	-24.14	125	150	V
	* 11.834047	42.14	ADR	38.6	-43.11	37.63	54	-16.37	-	-	125	150	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, 5203 MHz



RADIATED EMISSIONS

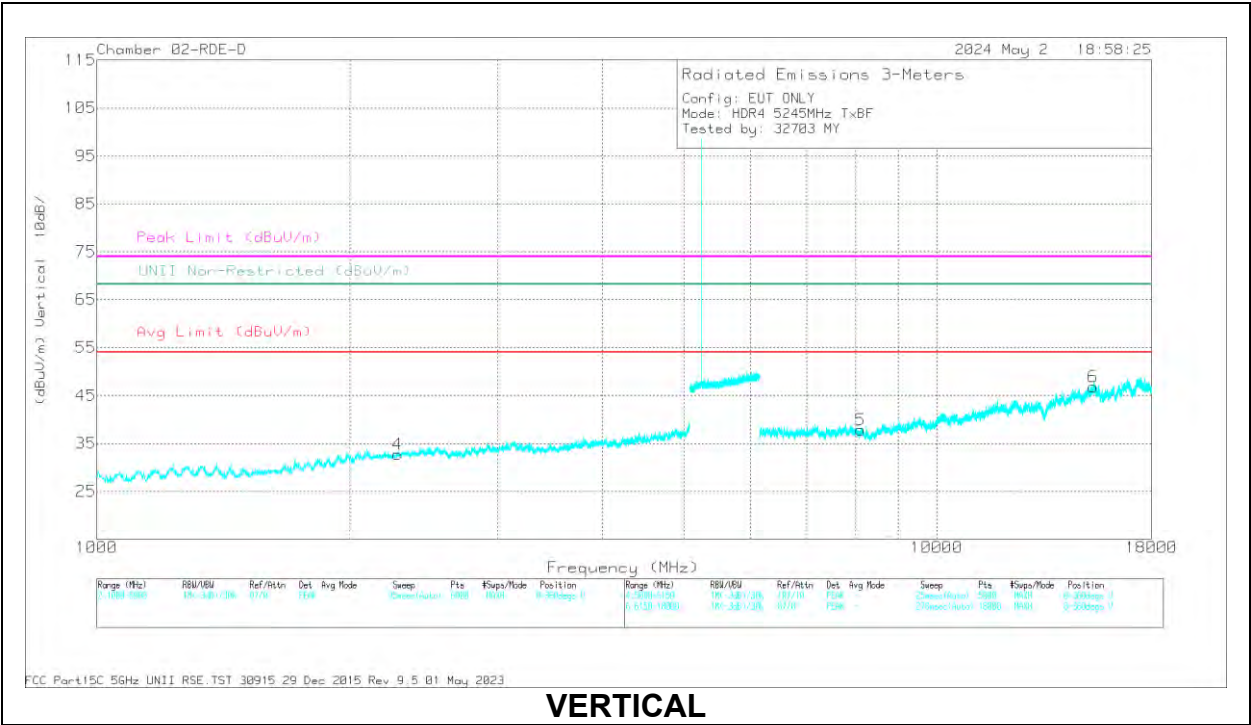
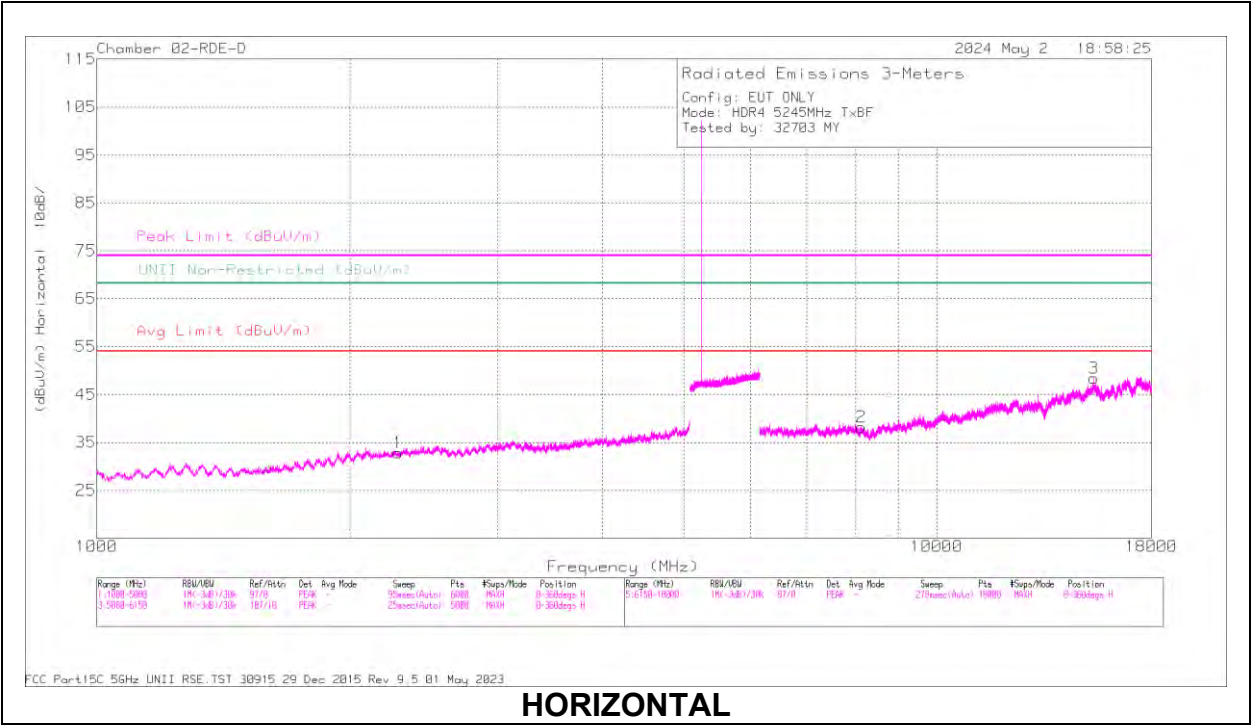
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.36542	60.93	PK-U	28.9	-49.4	40.43	-	-	74	-33.57	121	386	H
	* 1.363698	49.44	ADR	28.9	-49.42	28.92	54	-25.08	-	-	121	386	H
4	* 1.35759	61.11	PK-U	28.9	-49.45	40.56	-	-	74	-33.44	202	366	V
	* 1.357219	49.6	ADR	28.9	-49.45	29.05	54	-24.95	-	-	202	366	V
2	* 7.40535	55.76	PK-U	35.6	-45.74	45.62	-	-	74	-28.38	226	349	H
	* 7.40431	44.34	ADR	35.6	-45.71	34.23	54	-19.77	-	-	226	349	H
3	* 15.979106	52.67	PK-U	40.7	-41.19	52.18	-	-	74	-21.82	317	166	H
	* 15.977669	40.93	ADR	40.7	-41.21	40.42	54	-13.58	-	-	317	166	H
5	* 7.283742	58.08	PK-U	35.6	-44.93	48.75	-	-	74	-25.25	158	103	V
	* 7.284067	48.32	ADR	35.6	-44.92	39	54	-15	-	-	158	103	V
6	* 15.609109	53.99	PK-U	40.4	-40.83	53.56	-	-	74	-20.44	128	118	V
	* 15.608815	43.99	ADR	40.4	-40.83	43.56	54	-10.44	-	-	128	118	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, 5245 MHz



RADIATEAD EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (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	* 2285.169	37.72	PK-U	31.9	-29	40.62	-	-	74	-33.38	-	-	0	101	H
	* 2282.906	24.89	ADR	31.9	-28.9	27.89	54	-26.11	-	-	-	-	0	101	H
4	* 2279.21	37.95	PK-U	31.9	-28.9	40.95	-	-	74	-33.05	-	-	0	101	V
	* 2279.495	24.92	ADR	31.9	-28.9	27.92	54	-26.08	-	-	-	-	0	101	V
2	* 8123.838	33.8	PK-U	35.8	-22.6	47	-	-	74	-27	-	-	0	200	H
	* 8123.081	20	ADR	35.8	-22.7	33.1	54	-20.9	-	-	-	-	0	200	H
3	* 15373.80	32.42	PK-U	39.6	-15.6	56.42	-	-	74	-17.58	-	-	0	101	H
	* 15375.62	18.14	ADR	39.6	-15.8	41.94	54	-12.06	-	-	-	-	0	101	H
5	* 8106.531	32.51	PK-U	35.8	-22.8	45.51	-	-	74	-28.49	-	-	0	101	V
	* 8105.735	19.47	ADR	35.8	-22.8	32.47	54	-21.53	-	-	-	-	0	101	V
6	15347.422	31.61	PK-U	39.6	-16.8	54.41	-	-	-	-	68.2	-13.79	0	200	V

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

PK-U - U-NII: Maximum Peak

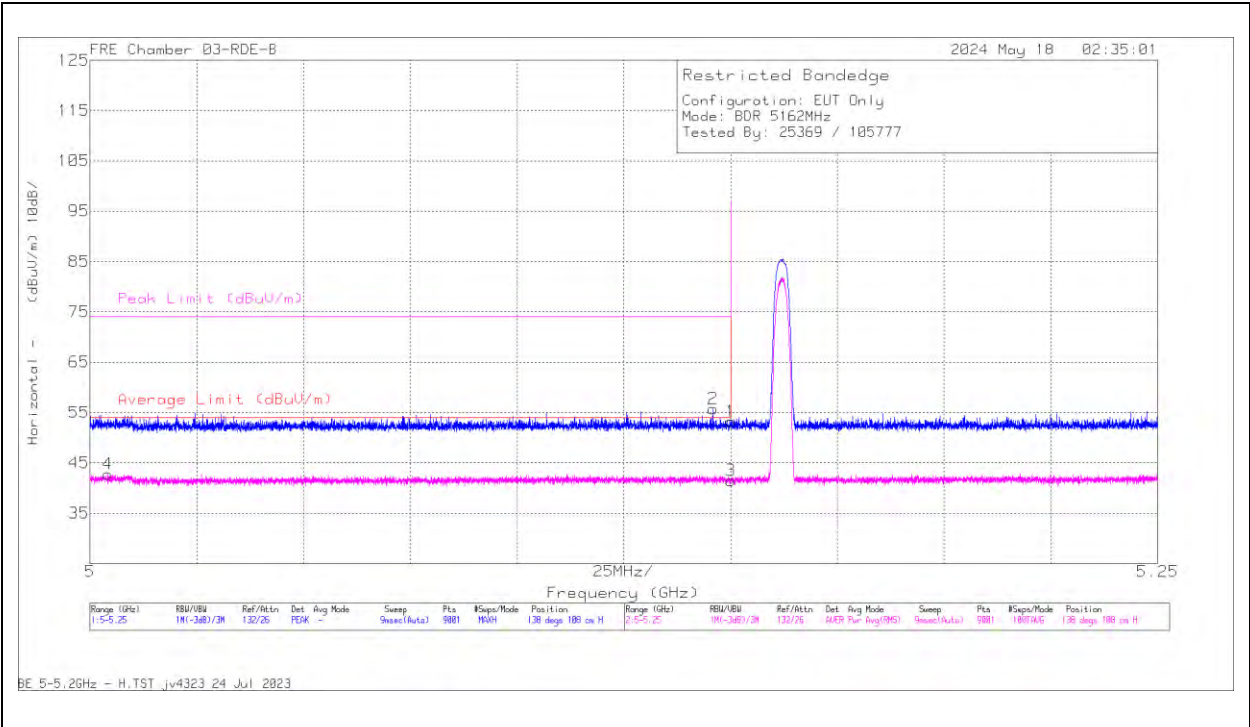
ADR - U-NII AD primary method, RMS average

10.1.7. HDR 4 LOW POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

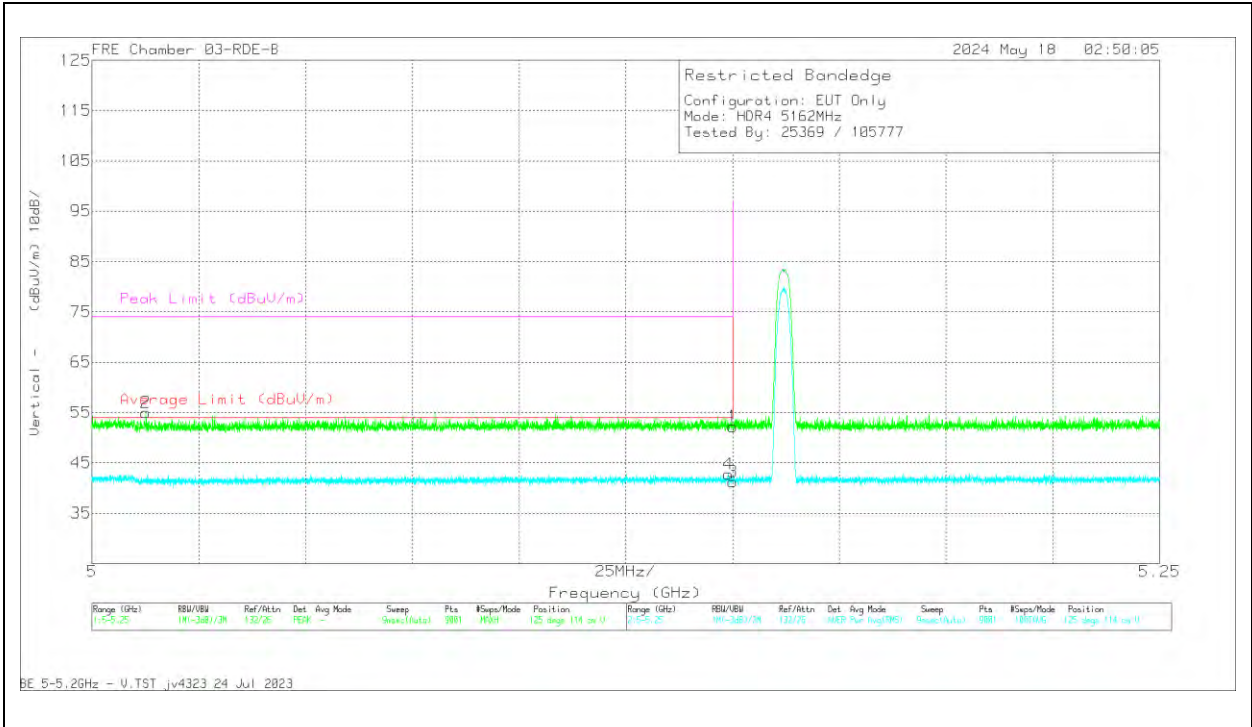
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	59.28	Pk	34.3	-40.3	53.28	-	-	74	-20.72	138	108	H
2	* 5.14589	61.68	Pk	34.3	-40.2	55.78	-	-	74	-18.22	138	108	H
3	* 5.15	47.54	RMS	34.3	-40.3	41.54	54	-12.46	-	-	138	108	H
4	* 5.004194	49.06	RMS	34.1	-40.4	42.76	54	-11.24	-	-	138	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



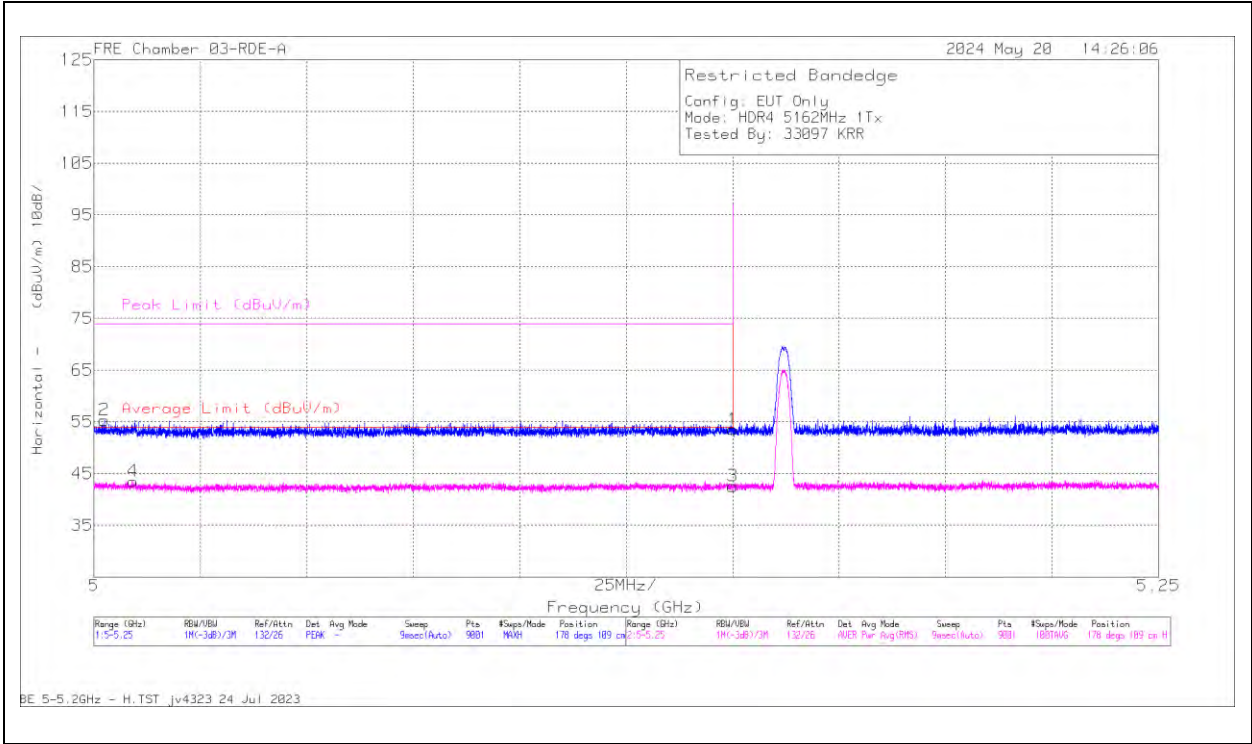
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.26	Pk	34.3	-40.3	52.26	-	-	74	-21.74	125	114	V
2	* 5.012611	61.23	Pk	34.2	-40.4	55.03	-	-	74	-18.97	125	114	V
3	* 5.15	47.3	RMS	34.3	-40.3	41.3	54	-12.7	-	-	125	114	V
4	* 5.149085	48.75	RMS	34.3	-40.3	42.75	54	-11.25	-	-	125	114	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 5, SISO MODE

LOW CHANNEL, 5162 MHz

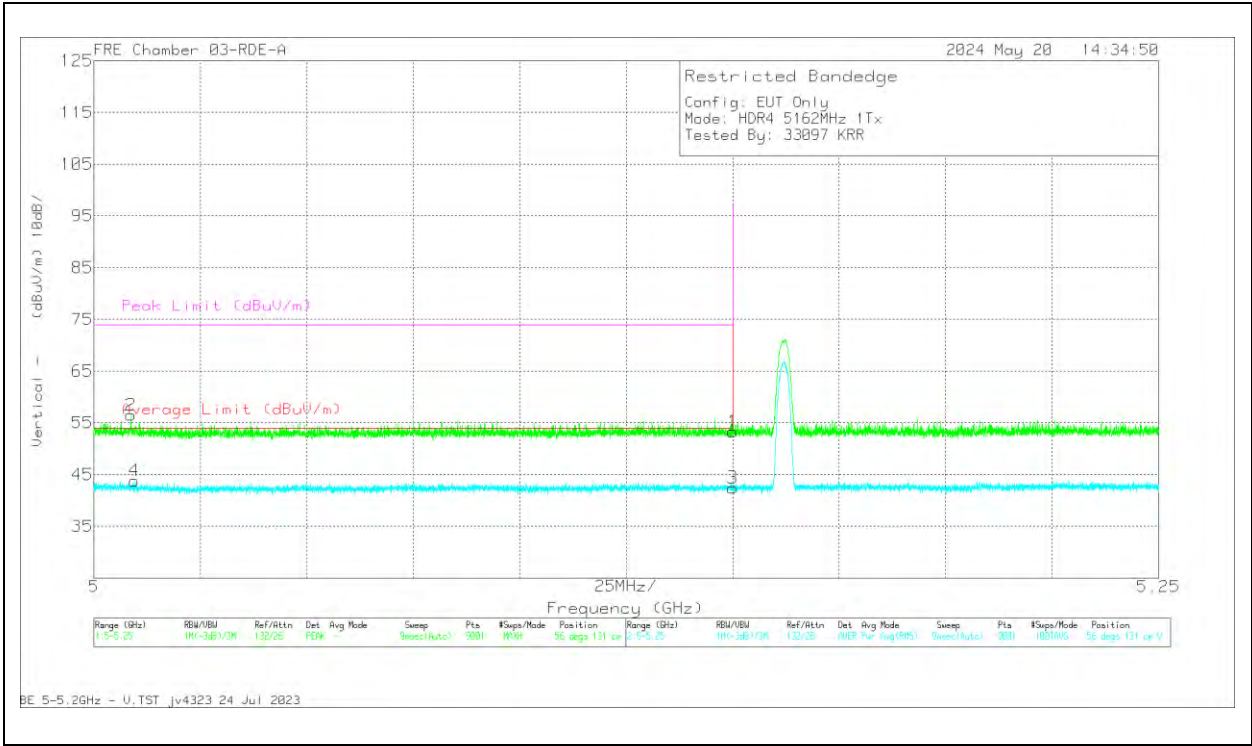
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.63	Pk	34.2	-38.28	53.55	-	-	74	-20.45	178	109	H
2	* 5.002444	59.56	Pk	34	-38.22	55.34	-	-	74	-18.66	178	109	H
3	* 5.15	46.67	RMS	34.2	-38.28	42.59	54	-11.41	-	-	178	109	H
4	* 5.009167	47.88	RMS	34	-38.35	43.53	54	-10.47	-	-	178	109	H

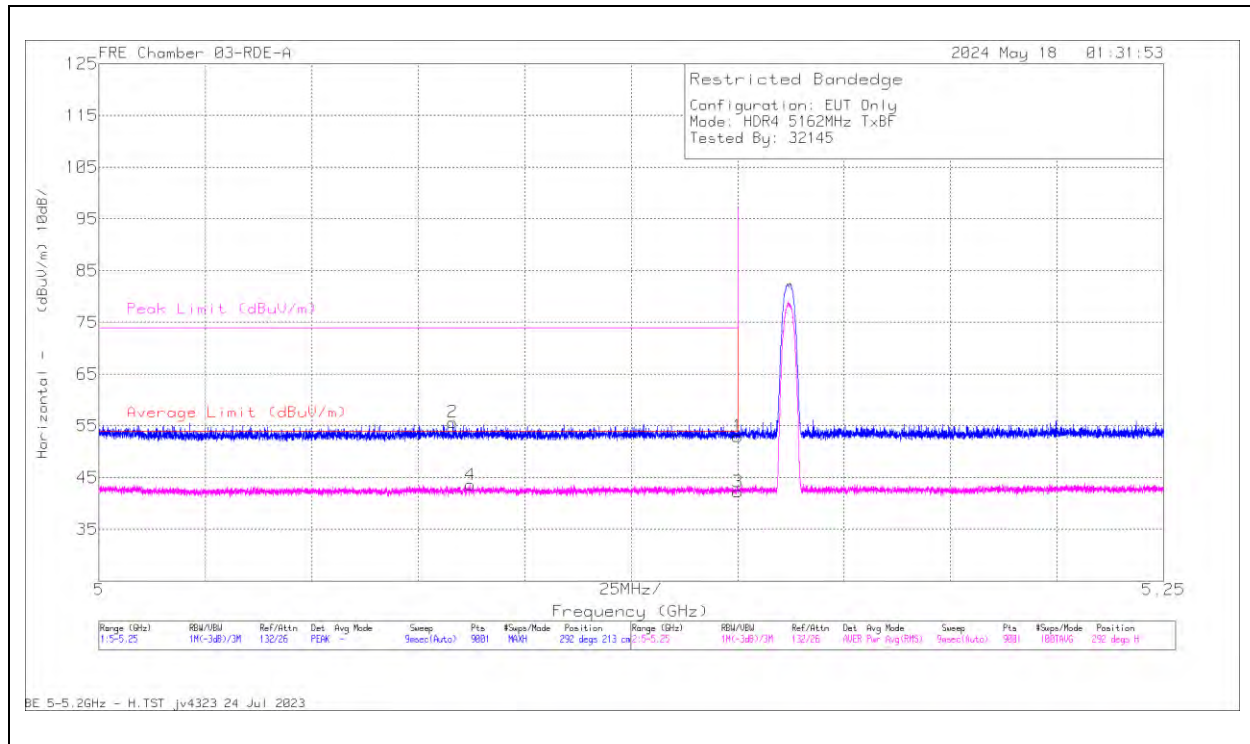
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.37	Pk	34.2	-38.28	53.29	-	-	74	-20.71	56	131	V
2	* 5.008695	60.87	Pk	34	-38.37	56.5	-	-	74	-17.5	56	131	V
3	* 5.15	46.48	RMS	34.2	-38.28	42.4	54	-11.6	-	-	56	131	V
4	* 5.0095	48.15	RMS	34	-38.34	43.81	54	-10.19	-	-	56	131	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE**LOW CHANNEL, 5162 MHz****HORIZONTAL RESULT**

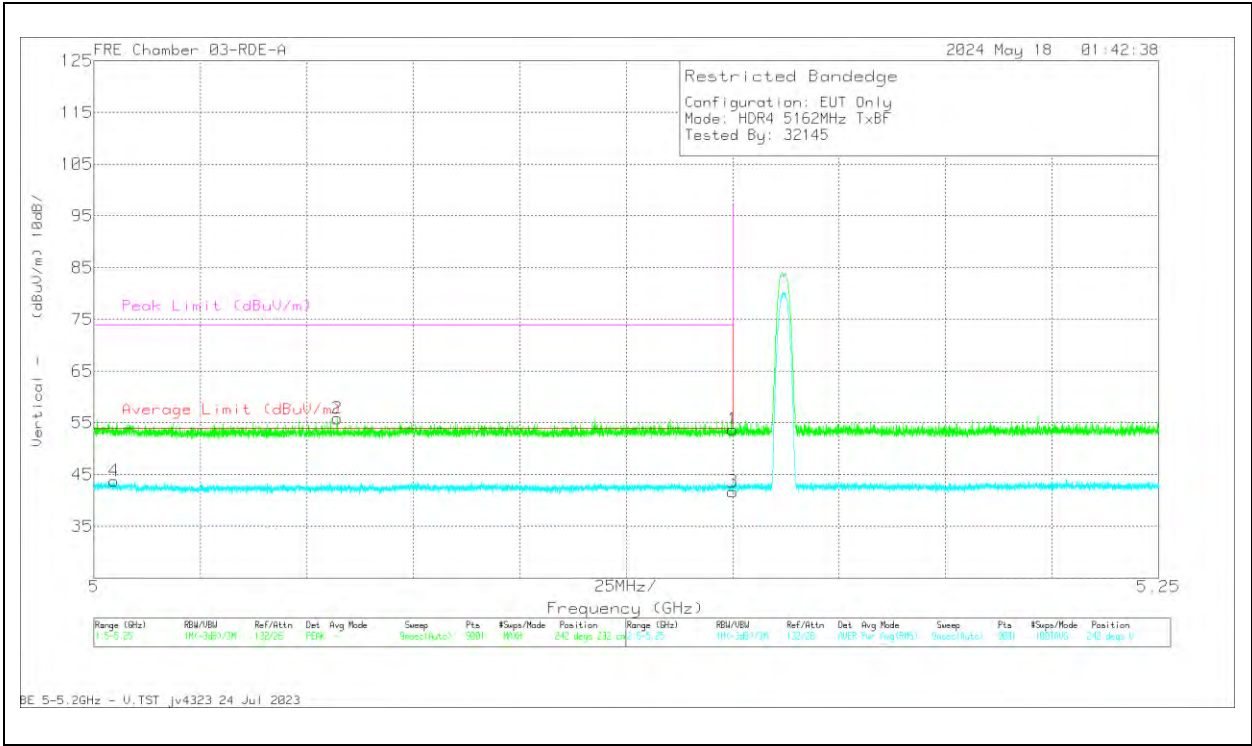
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.08	Pk	34.2	-38.28	53	-	-	74	-21	292	213	H
2	* 5.083084	59.93	Pk	34.1	-38.33	55.7	-	-	74	-18.3	292	213	H
3	* 5.15	46.34	RMS	34.2	-38.28	42.26	54	-11.74	-	-	292	213	H
4	* 5.087251	47.94	RMS	34.1	-38.43	43.61	54	-10.39	-	-	292	213	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

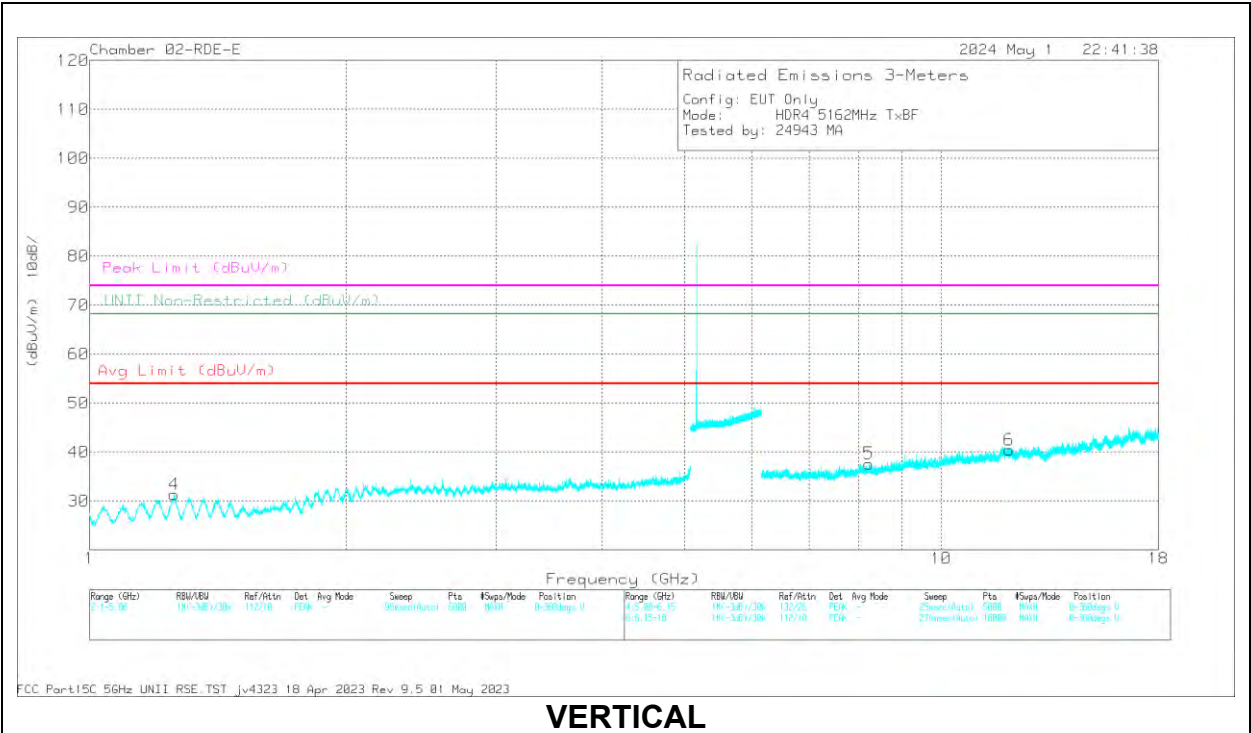
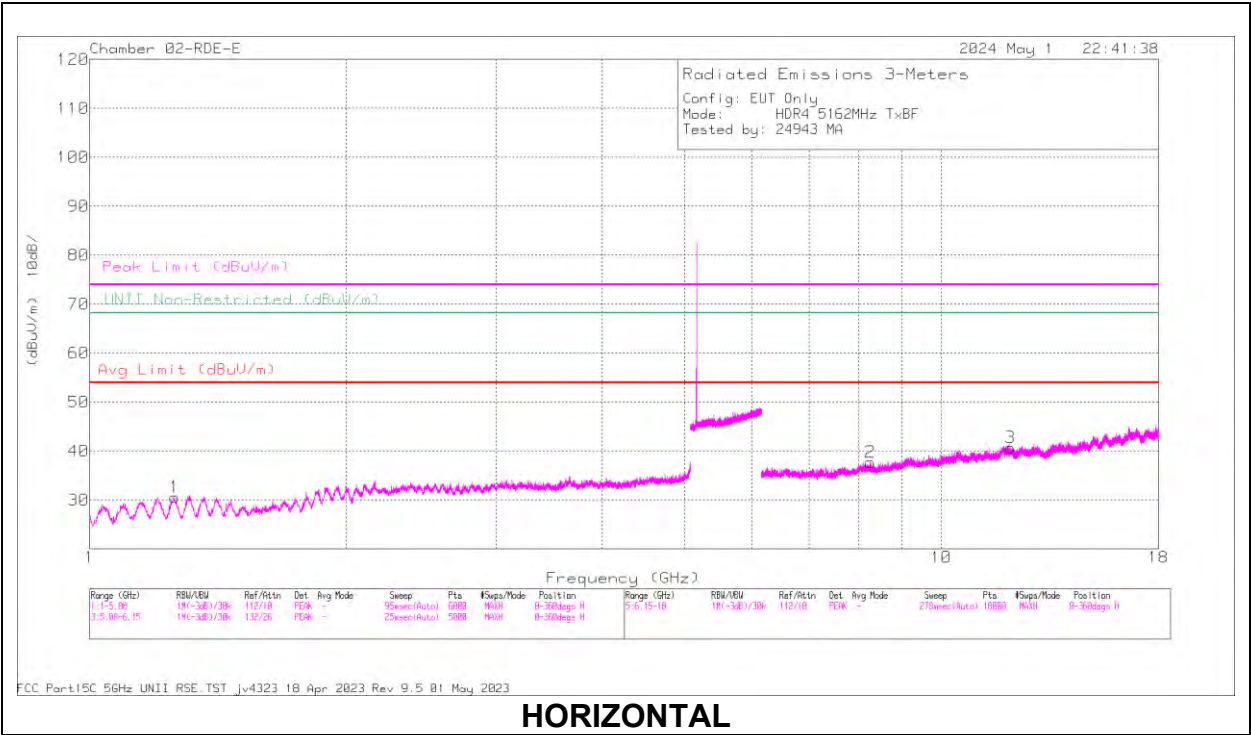


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.83	Pk	34.2	-38.28	53.75	-	-	74	-20.25	242	232	V
2	* 5.057139	60.17	Pk	34	-38.32	55.85	-	-	74	-18.15	242	232	V
3	* 5.15	45.77	RMS	34.2	-38.28	41.69	54	-12.31	-	-	242	232	V
4	* 5.004694	48.08	RMS	34	-38.31	43.77	54	-10.23	-	-	242	232	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.8. HDR 4 LOW POWER, UNII-1 BAND, MIMO TXBF MODE,
HARMONIC AND SPURIOUS

LOW CHANNEL, 5162 MHz

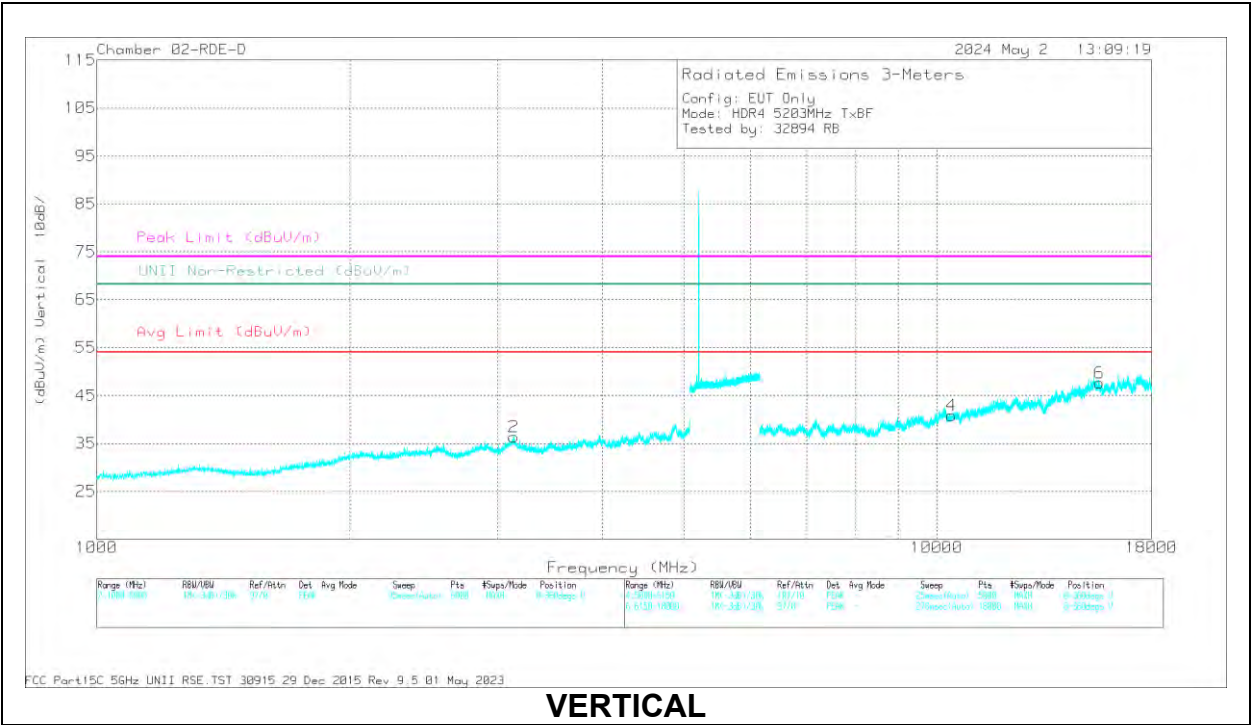
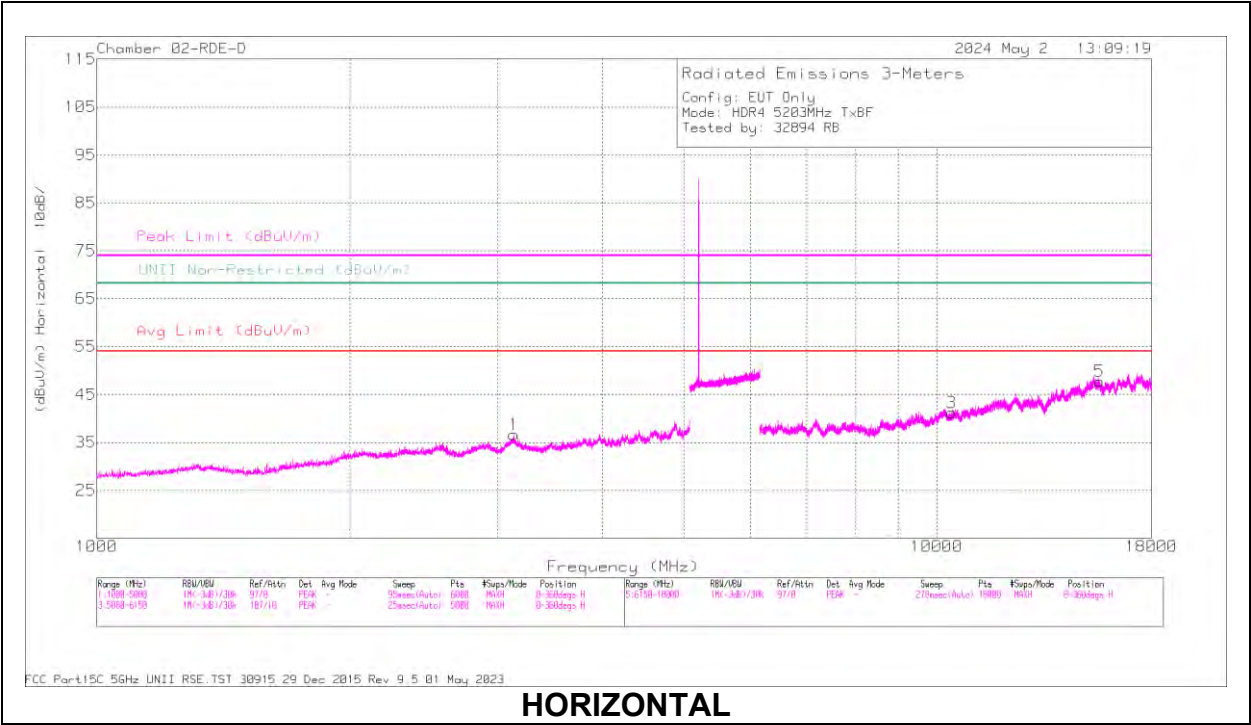


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.259022	61.42	PK-U	29	-49.55	40.87	-	-	74	-33.13	48	397	H
	* 1.25786	49.9	ADR	29	-49.51	29.39	54	-24.61	-	-	48	397	H
4	* 1.254441	61.55	PK-U	29	-49.53	41.02	-	-	74	-32.98	200	312	V
	* 1.255876	49.61	ADR	29	-49.5	29.11	54	-24.89	-	-	200	312	V
2	* 8.261629	55.52	PK-U	35.9	-44.36	47.06	-	-	74	-26.94	88	317	H
	* 8.260576	43.91	ADR	35.9	-44.37	35.44	54	-18.56	-	-	88	317	H
3	* 12.058634	54.39	PK-U	38.9	-43.06	50.23	-	-	74	-23.77	266	264	H
	* 12.059732	43.09	ADR	38.9	-43.07	38.92	54	-15.08	-	-	266	264	H
5	* 8.222852	55.72	PK-U	35.9	-44.42	47.2	-	-	74	-26.8	331	235	V
	* 8.223367	44.15	ADR	35.9	-44.42	35.63	54	-18.37	-	-	331	235	V
6	* 12.011483	55.01	PK-U	38.8	-43.07	50.74	-	-	74	-23.26	360	123	V
	* 12.012739	43.03	ADR	38.8	-43.05	38.78	54	-15.22	-	-	360	123	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, 5203 MHz



RADIATED EMISSIONS

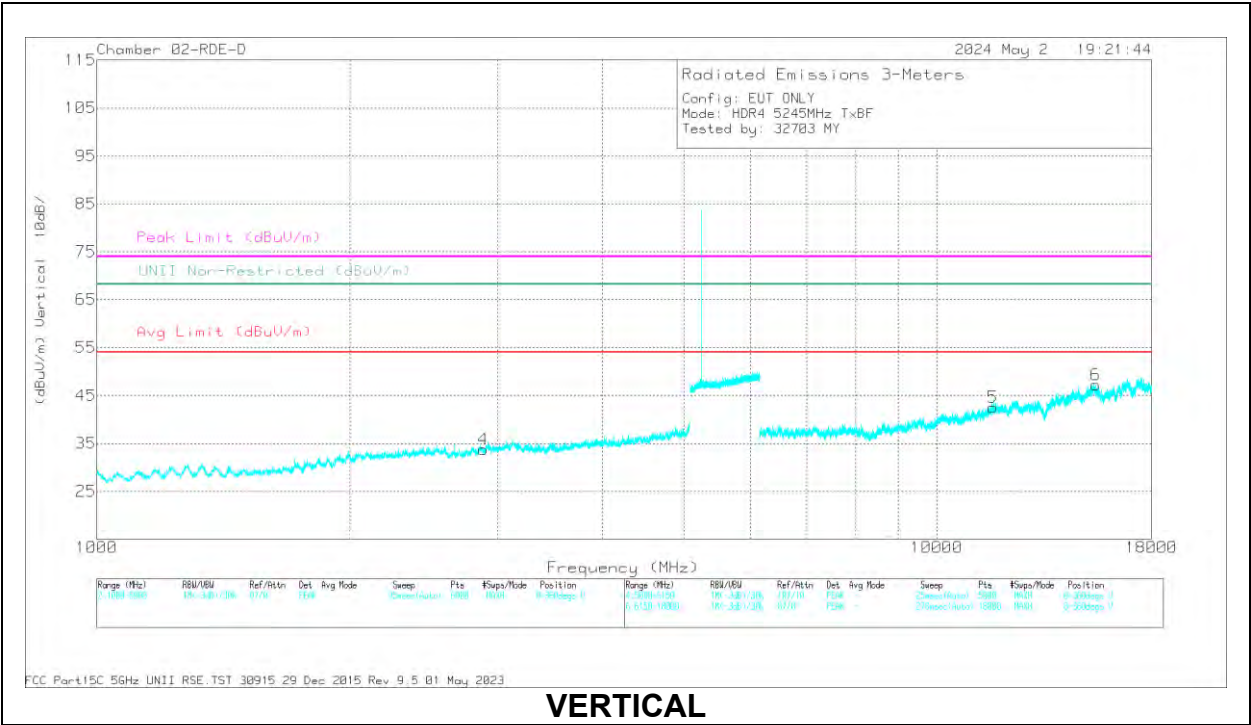
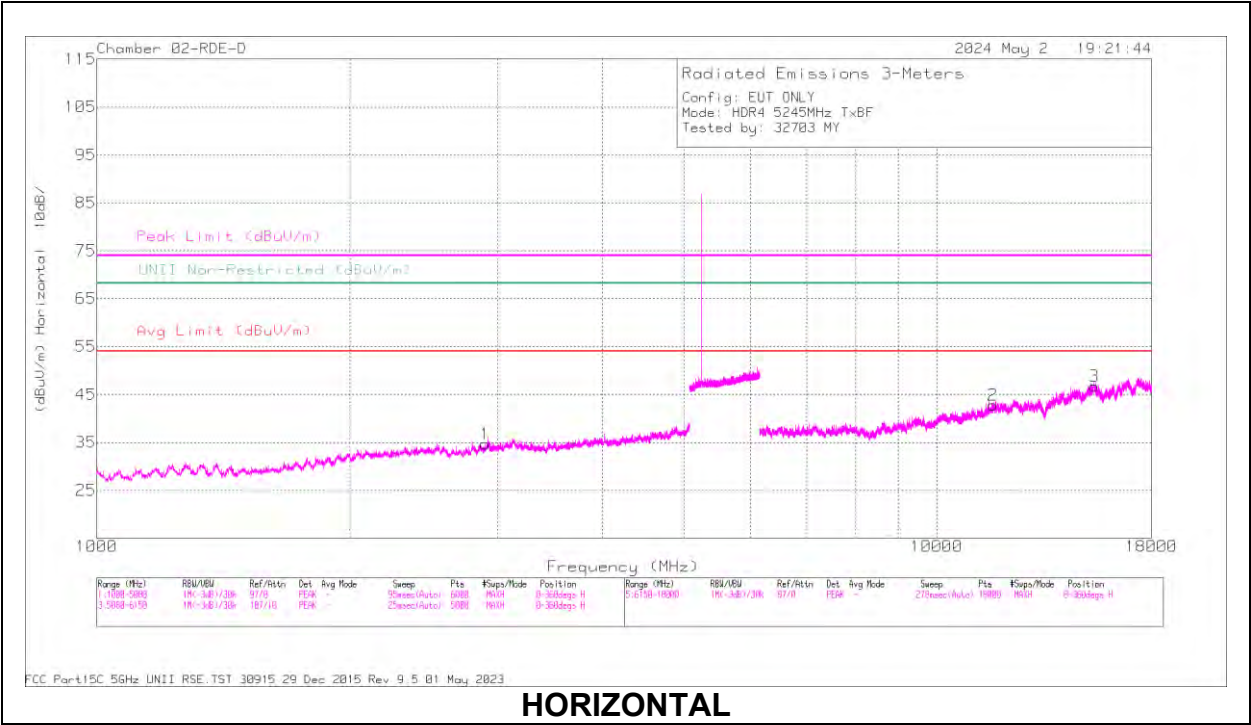
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 15608.93	33.37	PK-U	39.9	-16.8	56.47	-	-	74	-17.53	-	-	94	379	H
	* 15607.35	22.05	ADR	39.9	-16.8	45.15	54	-8.85	-	-	-	-	94	379	H
6	* 15602.82	33.75	PK-U	39.9	-17	56.65	-	-	74	-17.35	-	-	133	388	V
	* 15604.99	21.99	ADR	39.9	-16.9	44.99	54	-9.01	-	-	-	-	133	388	V
2	3135.674	39.41	PK-U	33	-26.5	45.91	-	-	-	-	68.2	-22.29	204	215	V
1	3137.677	39.74	PK-U	33	-26.6	46.14	-	-	-	-	68.2	-22.06	189	155	H
3	10401.351	32.74	PK-U	37.4	-20.3	49.84	-	-	-	-	68.2	-18.36	289	216	H
4	10409.308	32.96	PK-U	37.4	-20.4	49.96	-	-	-	-	68.2	-18.24	224	310	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, 5245 MHz



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2881.867	39.18	PK-U	32.4	-27.5	44.08	-	-	74	-29.92	225	101	V
	2885.053	27.1	ADR	32.5	-27.6	32	54	-22	-	-	225	101	V
1	2899.851	39.9	PK-U	32.5	-27.6	44.8	-	-	74	-29.2	225	101	H
	2897.28	27.26	ADR	32.5	-27.5	32.26	54	-21.74	-	-	225	101	H
2	11653.963	32.85	PK-U	38.5	-19.4	51.95	-	-	74	-22.05	225	101	H
	11655.271	21.28	ADR	38.5	-19.3	40.48	54	-13.52	-	-	225	101	H
5	11661.651	33.24	PK-U	38.5	-19.2	52.54	-	-	74	-21.46	225	200	V
	11662.994	21.28	ADR	38.5	-19.2	40.58	54	-13.42	-	-	225	200	V
3	15389.553	33.64	PK-U	39.6	-17	56.24	-	-	74	-17.76	225	101	H
	15386.132	21.73	ADR	39.6	-16.7	44.63	54	-9.37	-	-	225	101	H
6	15441.066	32.58	PK-U	39.7	-16.4	55.88	-	-	74	-18.12	225	200	V
	15441.587	21.05	ADR	39.7	-16.4	44.35	54	-9.65	-	-	225	200	V

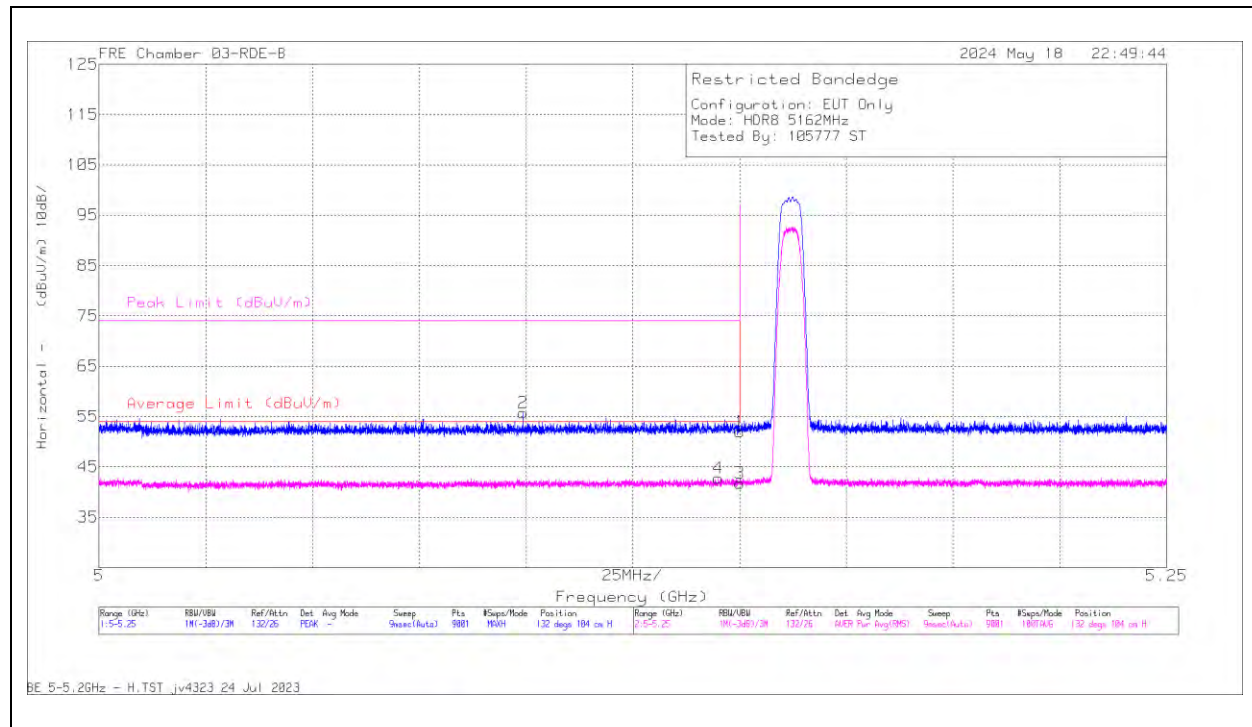
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

10.1.9. HDR 8 HIGH POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

HORIZONTAL RESULT

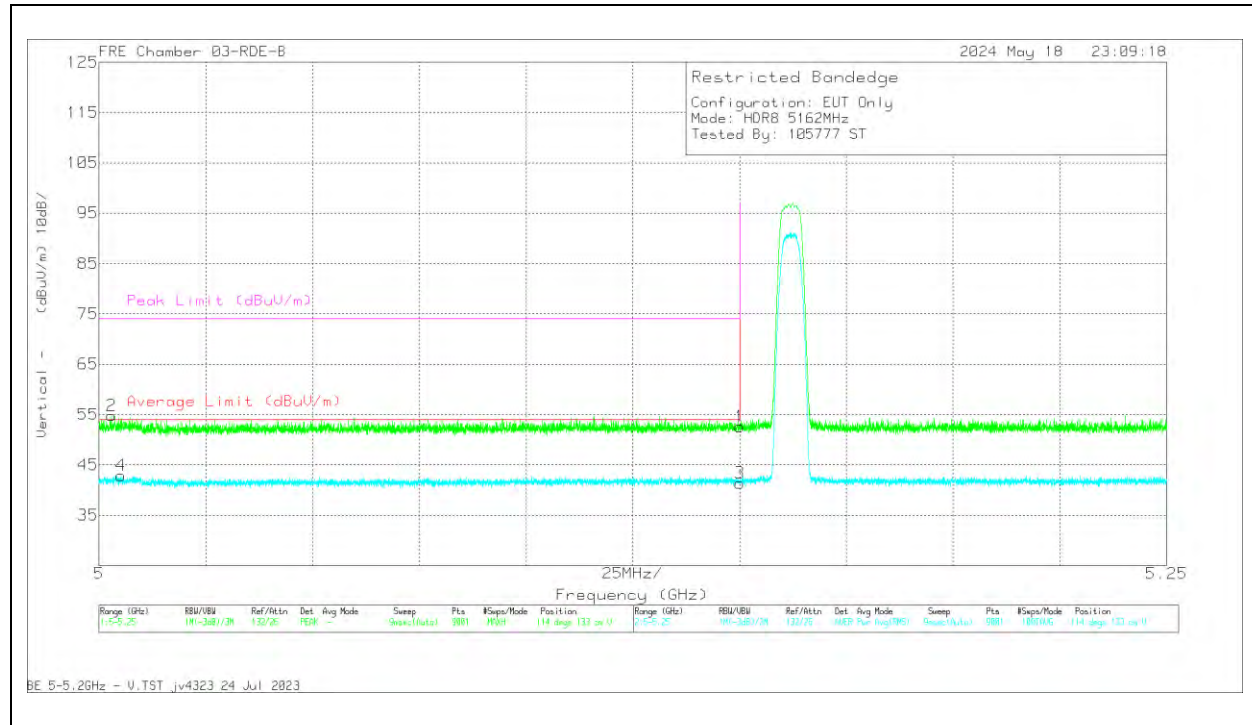


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.97	Pk	34.3	-40.3	51.97	-	-	74	-22.03	132	104	H
2	* 5.099334	61.85	Pk	34.2	-40.3	55.75	-	-	74	-18.25	132	104	H
3	* 5.15	47.73	RMS	34.3	-40.3	41.73	54	-12.27	-	-	132	104	H
4	* 5.145029	48.65	RMS	34.3	-40.2	42.75	54	-11.25	-	-	132	104	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.56	Pk	34.3	-40.3	52.56	-	-	74	-21.44	114	133	V
2	* 5.002889	61.1	Pk	34.1	-40.4	54.8	-	-	74	-19.2	114	133	V
3	* 5.15	47.43	RMS	34.3	-40.3	41.43	54	-12.57	-	-	114	133	V
4	* 5.005194	49.19	RMS	34.1	-40.4	42.89	54	-11.11	-	-	114	133	V

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

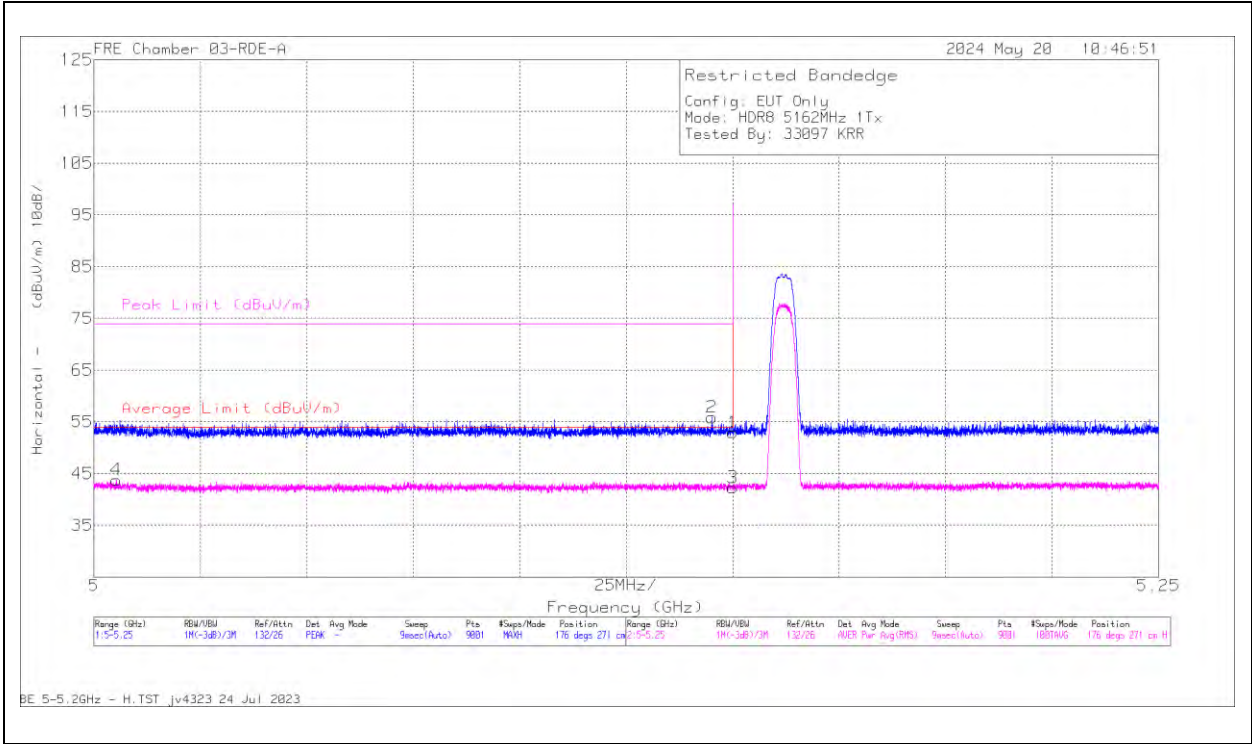
Pk - Peak detector

RMS - RMS detection

ANT 5, SISO MODE

LOW CHANNEL, 5162 MHz

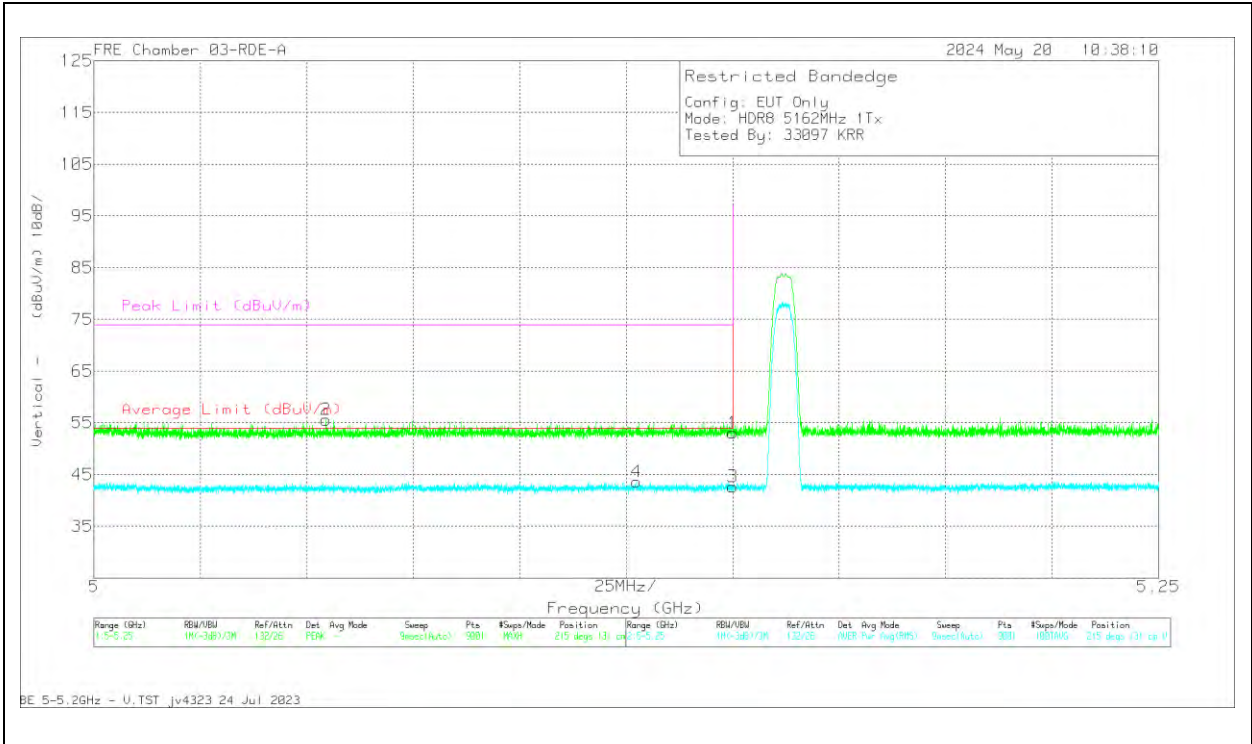
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.01	Pk	34.2	-38.28	52.93	-	-	74	-21.07	176	271	H
2	* 5.145084	59.95	Pk	34.2	-38.29	55.86	-	-	74	-18.14	176	271	H
3	* 5.15	46.37	RMS	34.2	-38.28	42.29	54	-11.71	-	-	176	271	H
4	* 5.005278	48.11	RMS	34	-38.34	43.77	54	-10.23	-	-	176	271	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



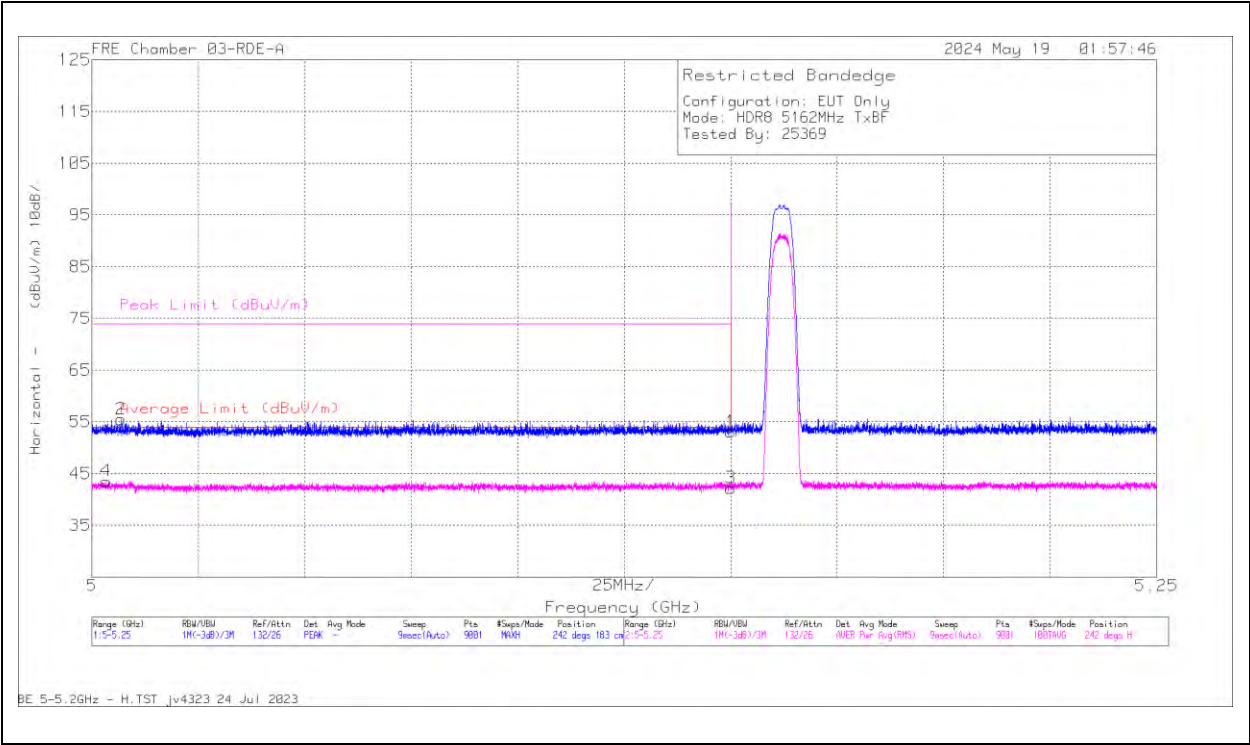
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.14	Pk	34.2	-38.28	53.06	-	-	74	-20.94	215	131	V
2	* 5.054445	59.98	Pk	34	-38.38	55.6	-	-	74	-18.4	215	131	V
3	* 5.15	46.75	RMS	34.2	-38.28	42.67	54	-11.33	-	-	215	131	V
4	* 5.12739	47.73	RMS	34.2	-38.34	43.59	54	-10.41	-	-	215	131	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE

LOW CHANNEL, 5162 MHz

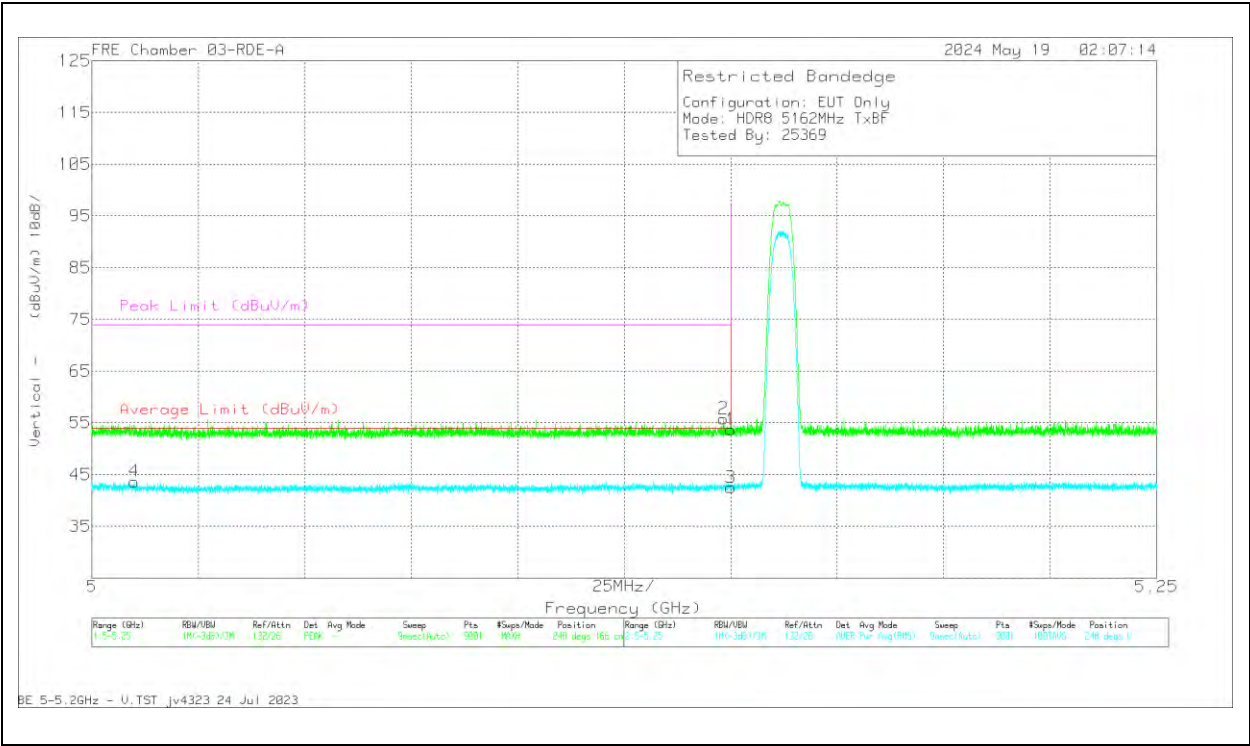
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.16	Pk	34.2	-38.28	53.08	-	-	74	-20.92	242	183	H
2	* 5.006833	59.87	Pk	34	-38.39	55.48	-	-	74	-18.52	242	183	H
3	* 5.15	46.28	RMS	34.2	-38.28	42.2	54	-11.8	-	-	242	183	H
4	* 5.003333	47.81	RMS	34	-38.25	43.56	54	-10.44	-	-	242	183	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

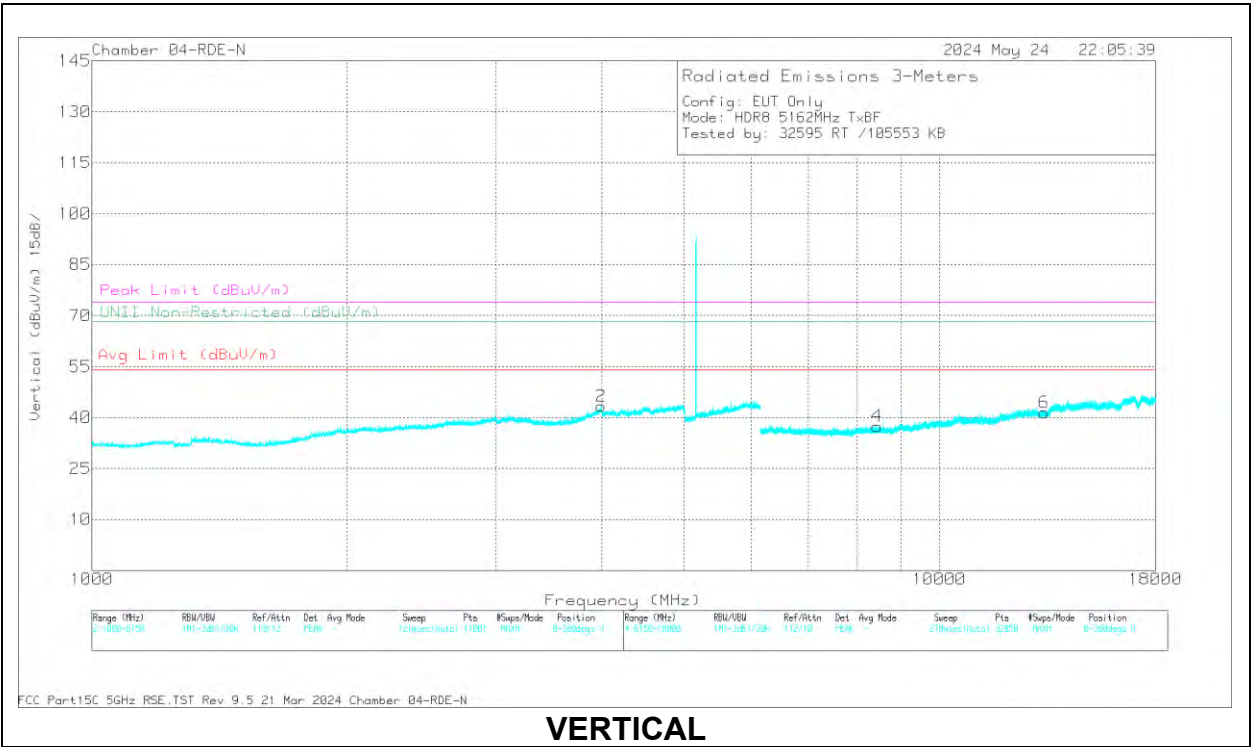
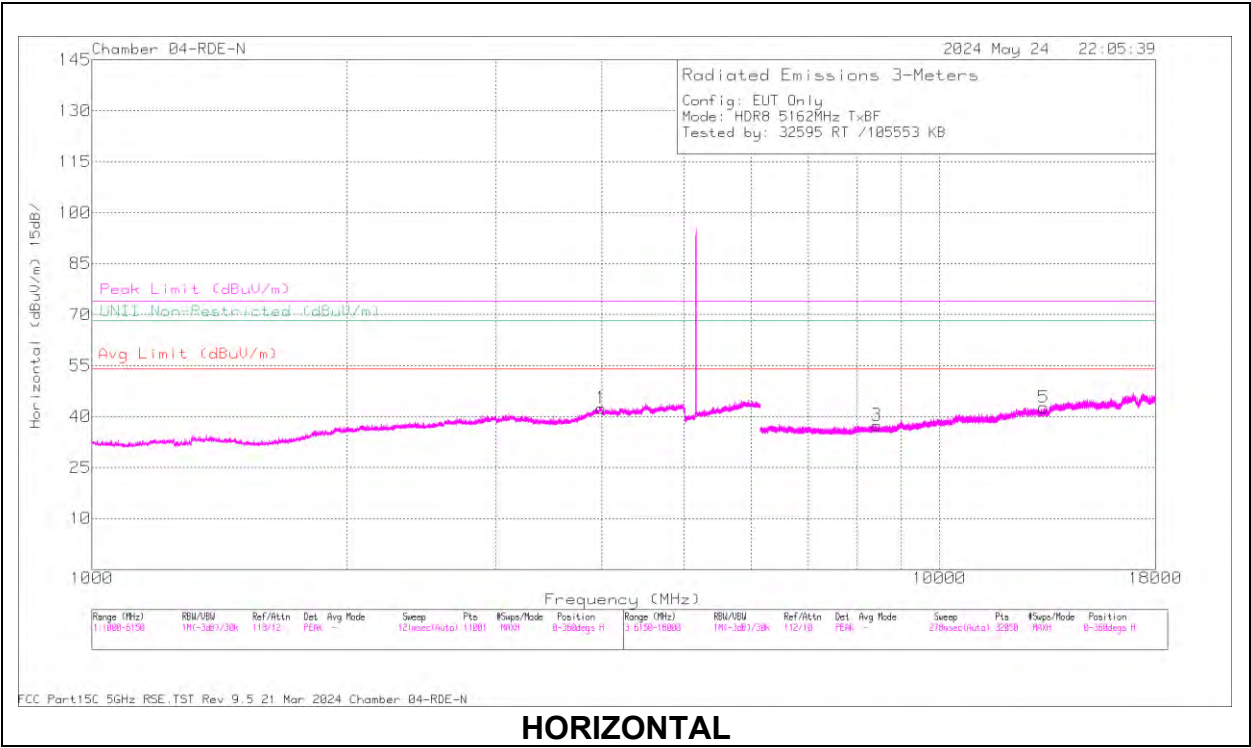


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.77	Pk	34.2	-38.28	53.69	-	-	74	-20.31	248	166	V
2	* 5.148279	59.85	Pk	34.2	-38.26	55.79	-	-	74	-18.21	248	166	V
3	* 5.15	46.6	RMS	34.2	-38.28	42.52	54	-11.48	-	-	248	166	V
4	* 5.009945	48.01	RMS	34	-38.33	43.68	54	-10.32	-	-	248	166	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.10. HDR 8 HIGH POWER, UNII-1 BAND, MIMO TXBF MODE, HARMONIC AND SPURIOUS

LOW CHANNEL, 5162 MHz



RADIATED EMISSIONS

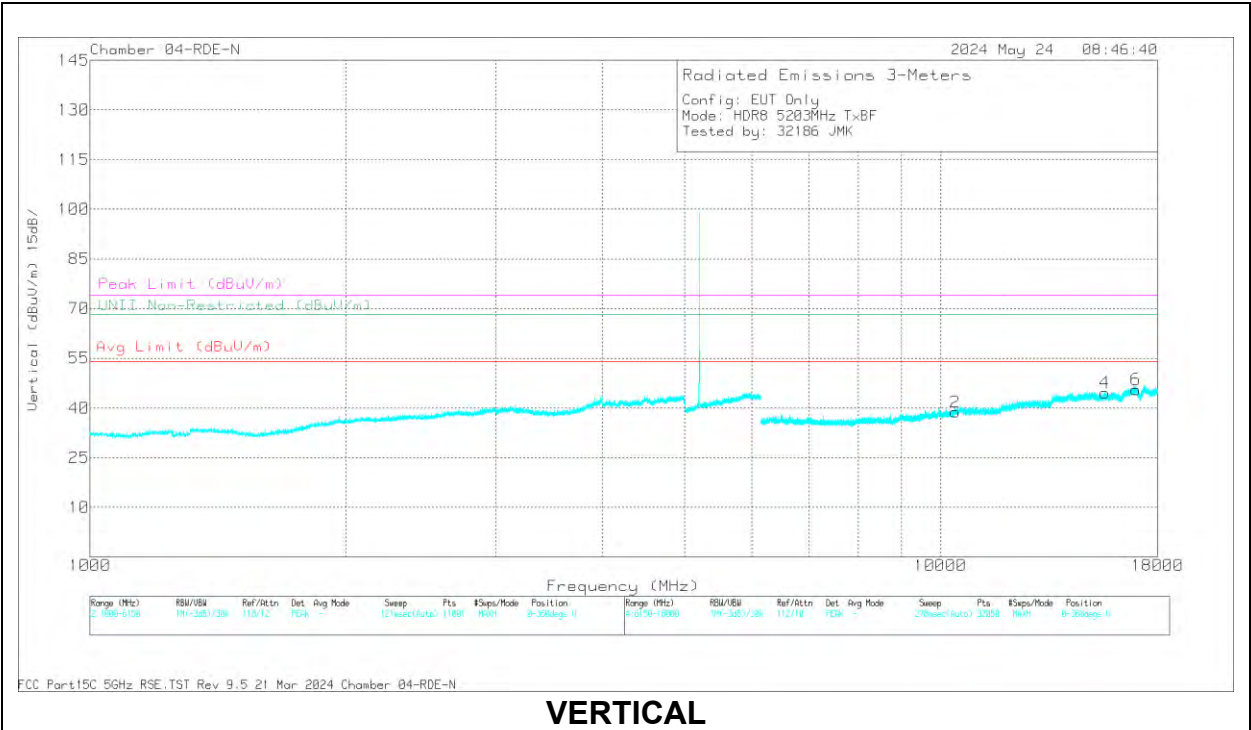
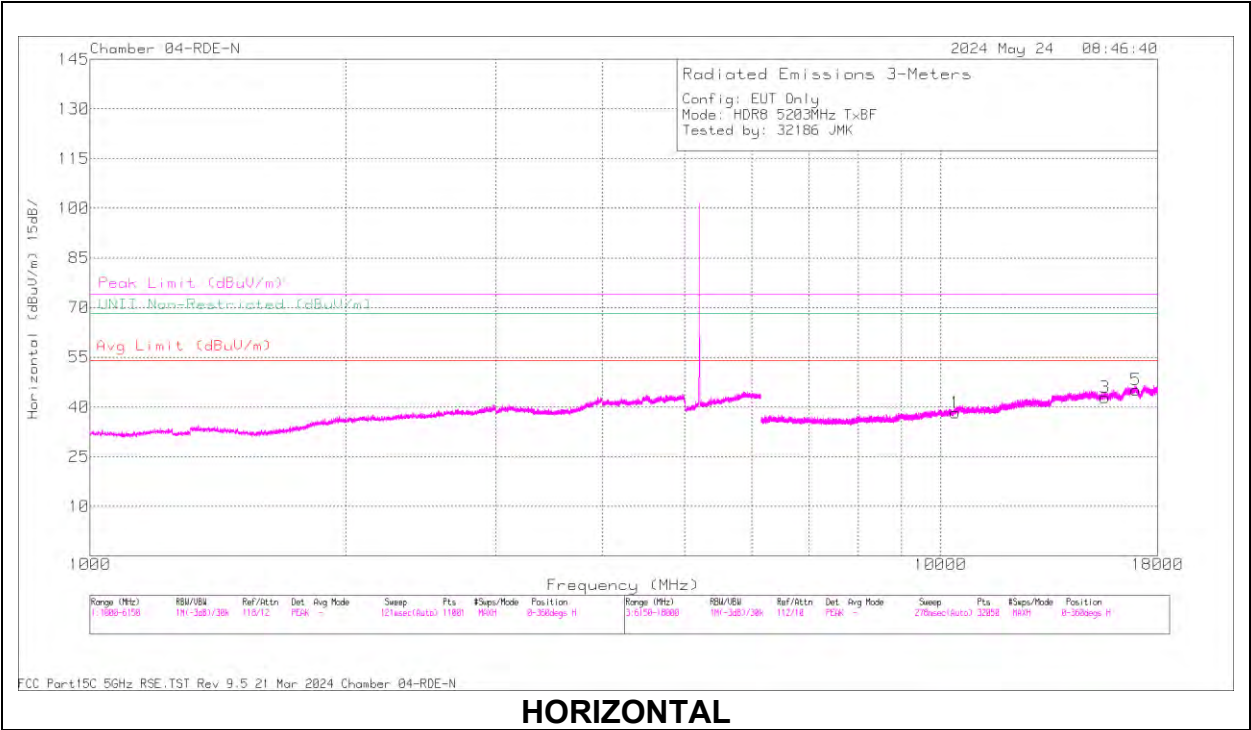
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3998.426	42.05	PK-U	35.1	-25.64	51.51	-	-	74	-22.49	242	300	H
	* 3989.888	30.62	ADR	35	-25.58	40.04	54	-13.96	-	-	242	300	H
2	* 3989.264	41.84	PK-U	35	-25.58	51.26	-	-	74	-22.74	231	394	V
	* 3984.417	30.56	ADR	35	-25.64	39.92	54	-14.08	-	-	231	394	V
3	* 8439.956	57.39	PK-U	35.8	-45.64	47.55	-	-	74	-26.45	277	151	H
	* 8416.448	45	ADR	35.8	-45.82	34.98	54	-19.02	-	-	277	151	H
5	* 13300.16	56.27	PK-U	39.2	-44.01	51.46	-	-	74	-22.54	155	327	H
	* 13289.27	44.41	ADR	39.2	-44.11	39.5	54	-14.5	-	-	155	327	H
4	* 8466.534	56.53	PK-U	35.8	-45.89	46.44	-	-	74	-27.56	7	189	V
	* 8457.066	45.2	ADR	35.8	-45.89	35.11	54	-18.89	-	-	7	189	V
6	* 13291.92	56.06	PK-U	39.2	-44.14	51.12	-	-	74	-22.88	170	364	V
	* 13298.65	44.8	ADR	39.2	-44.05	39.95	54	-14.05	-	-	170	364	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, 5203 MHz



RADIATED EMISSIONS

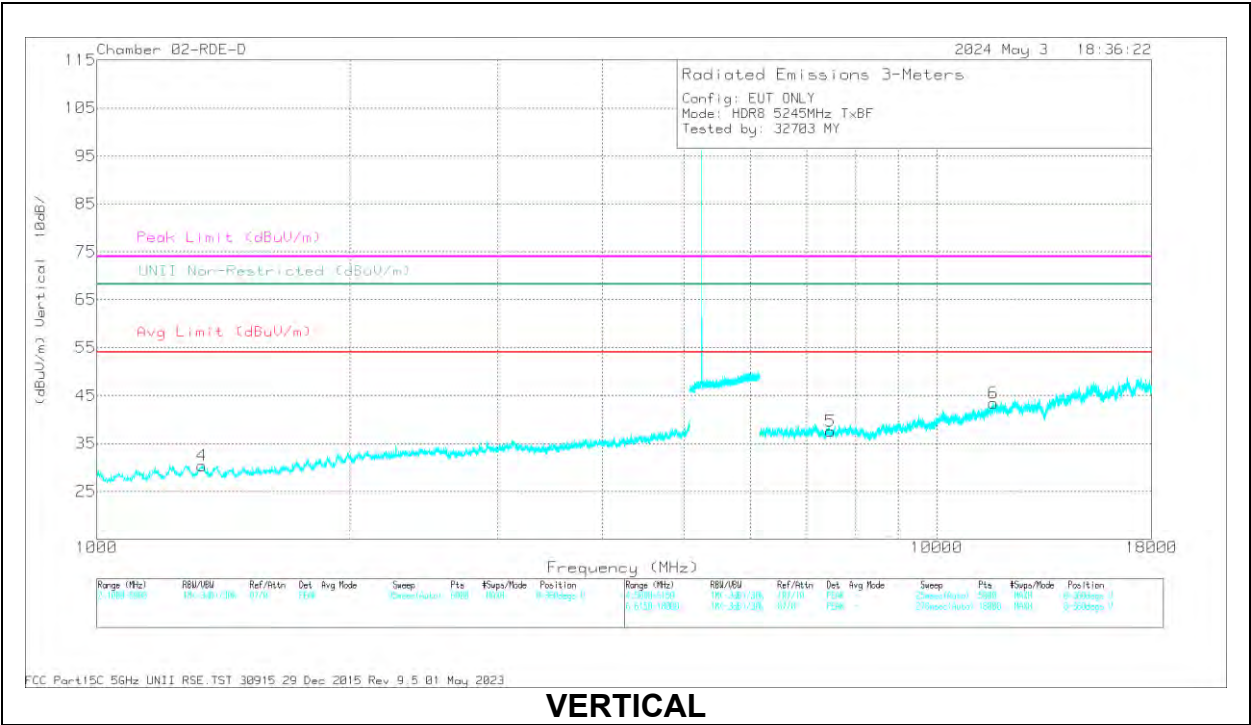
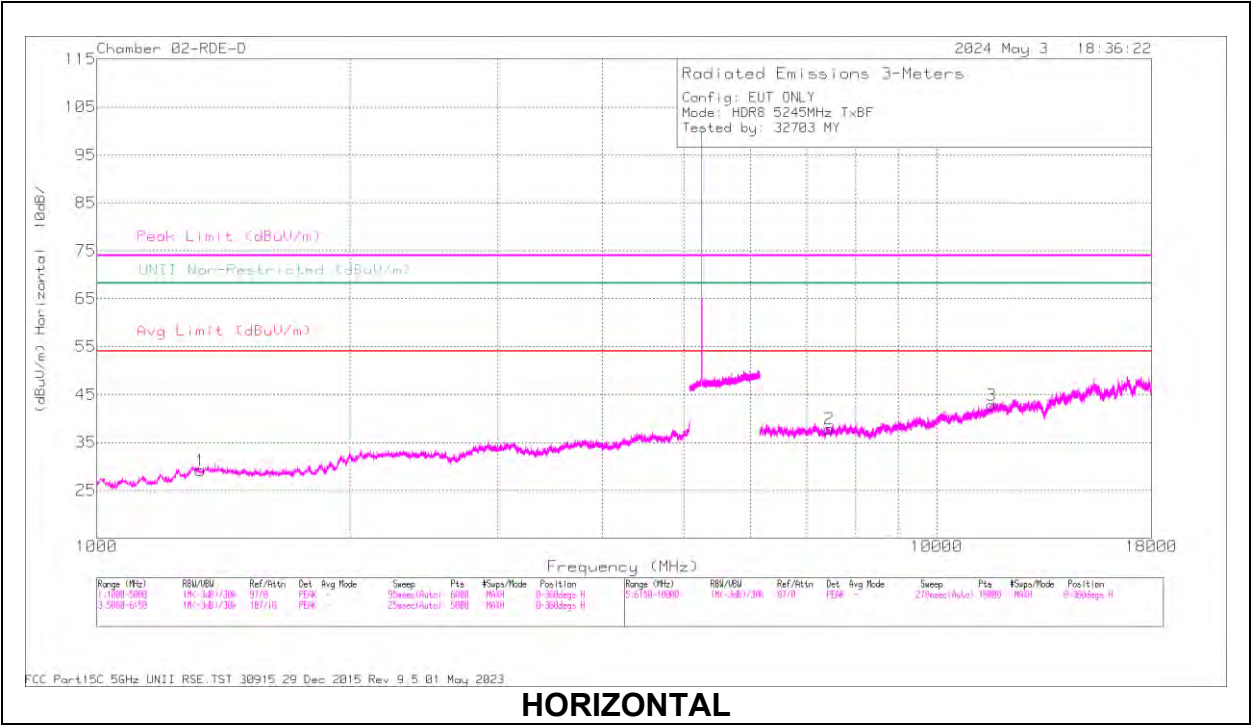
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 15598.51	56.74	PK-U	40	-43.74	53	-	-	74	-21	-	-	161	144	H
	* 15620.35	45.37	ADR	40.1	-43.38	42.09	54	-11.91	-	-	-	-	161	144	H
4	* 15608.94	57.33	PK-U	40	-43.69	53.64	-	-	74	-20.36	-	-	176	190	V
	* 15607.80	46.62	ADR	40	-43.72	42.9	54	-11.1	-	-	-	-	176	190	V
1	10394.186	57.37	PK-U	37.8	-45.66	49.51	-	-	-	-	68.2	-18.69	150	164	V
2	10395.109	57.31	PK-U	37.8	-45.65	49.46	-	-	-	-	68.2	-18.74	2	241	H
	10395.581	45.52	ADR	37.8	-45.63	37.69	-	-	-	-	-	-	150	164	V
	10408.029	45.57	ADR	37.8	-45.68	37.69	-	-	-	-	-	-	2	241	H
	16978.301	45.39	ADR	41.6	-43.52	43.47	-	-	-	-	-	-	72	192	H
5	16979.662	56.72	PK-U	41.6	-43.5	54.82	-	-	-	-	68.2	-13.38	72	192	H
6	16992.397	56.71	PK-U	41.6	-43.56	54.75	-	-	-	-	68.2	-13.45	155	144	V
	16993.782	45.4	ADR	41.6	-43.53	43.47	-	-	-	-	-	-	155	144	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, 5245 MHz



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1329.635	40.49	PK-U	28.7	-29.7	39.49	-	-	74	-34.51	0	200	H
	* 1329.955	26.39	ADR	28.7	-29.7	25.39	54	-28.61	-	-	0	200	H
2	* 7472.613	35.05	PK-U	35.6	-23.3	47.35	-	-	74	-26.65	0	101	H
	* 7474.249	20.15	ADR	35.6	-23.3	32.45	54	-21.55	-	-	0	101	H
4	* 1335.917	40.13	PK-U	28.7	-29.7	39.13	-	-	74	-34.87	0	101	V
	* 1334.095	26.55	ADR	28.7	-29.7	25.55	54	-28.45	-	-	0	101	V
3	* 11618.57	31.61	PK-U	38.5	-18.8	51.31	-	-	74	-22.69	0	101	H
	* 11619.34	17.99	ADR	38.5	-18.7	37.79	54	-16.21	-	-	0	101	H
5	* 7472.613	34.78	PK-U	35.6	-23.3	47.08	-	-	74	-26.92	0	101	V
	* 7474.249	19.95	ADR	35.6	-23.3	32.25	54	-21.75	-	-	0	101	V
6	* 11674.14	31.51	PK-U	38.5	-18.8	51.21	-	-	74	-22.79	0	101	V
	* 11673.36	18.16	ADR	38.5	-18.8	37.86	54	-16.14	-	-	0	101	V

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

PK-U - U-NII: Maximum Peak

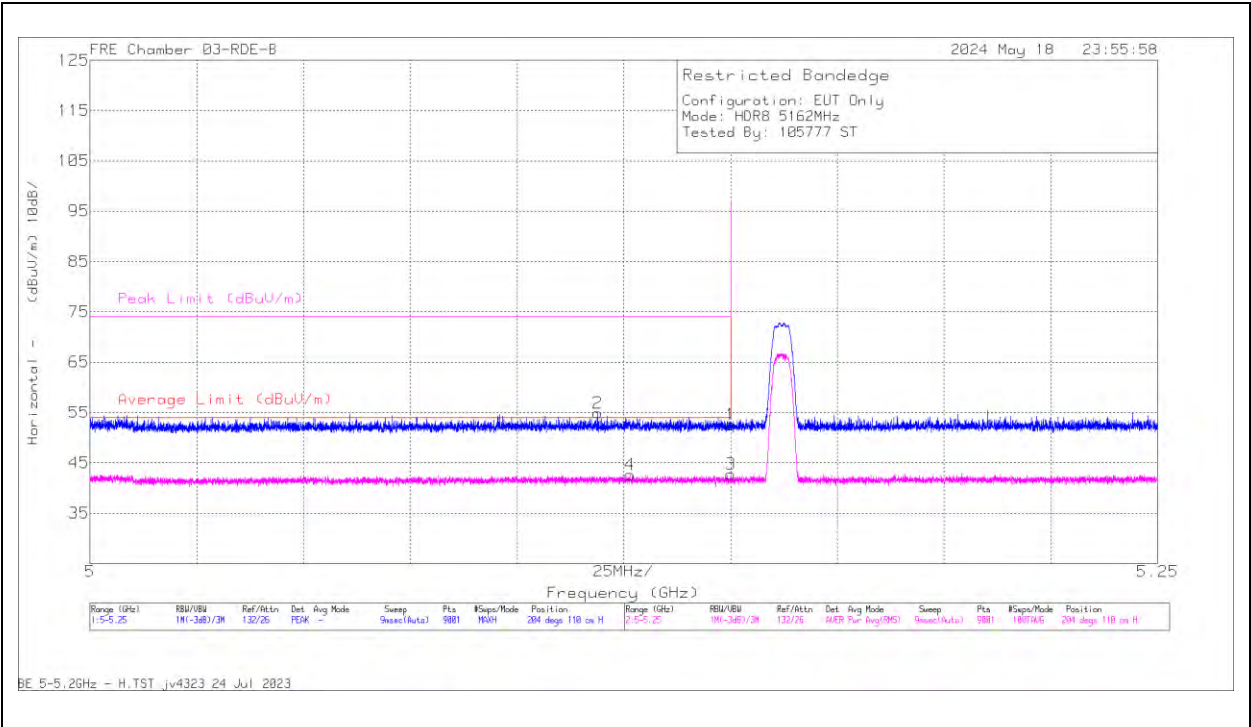
ADR - U-NII AD primary method, RMS average

10.1.11. HDR 8 LOW POWER, UNII-1 BAND, BANDEDGE

ANT 6, SISO MODE

LOW CHANNEL, 5162 MHz

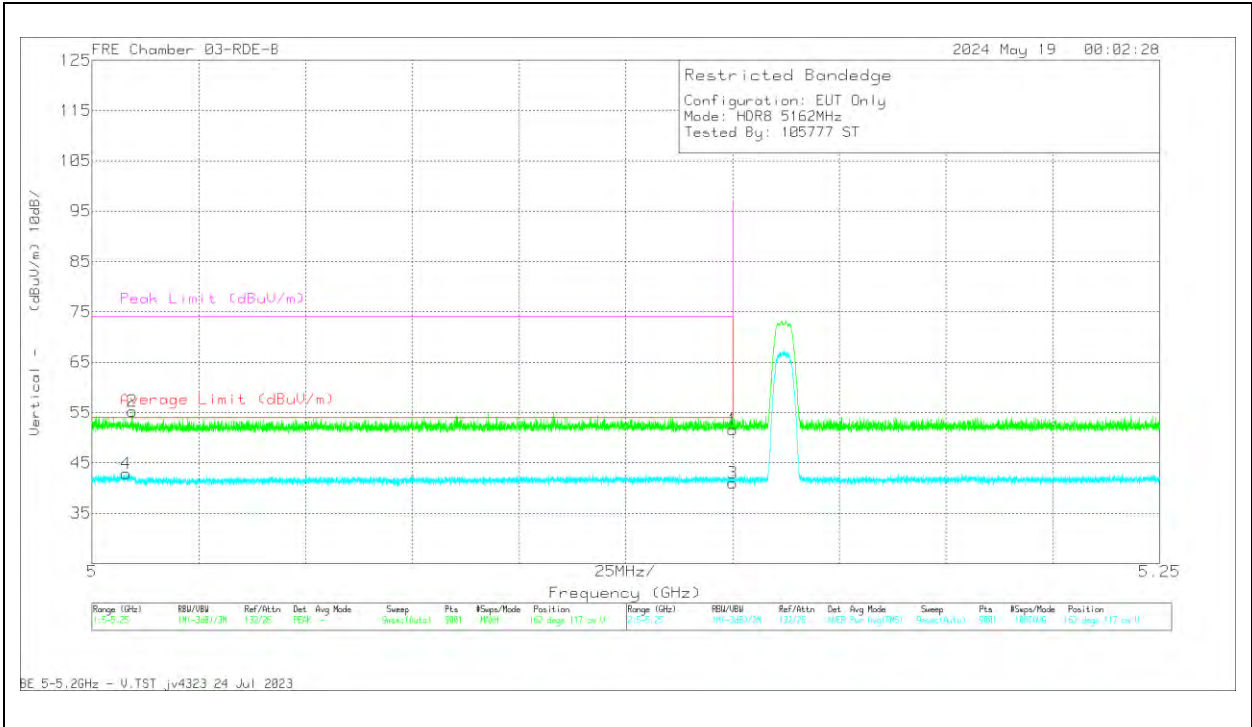
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.55	Pk	34.3	-40.3	52.55	-	-	74	-21.45	204	110	H
2	* 5.118834	61.01	Pk	34.3	-40.38	54.93	-	-	74	-19.07	204	110	H
3	* 5.15	48.75	RMS	34.3	-40.3	42.75	54	-11.25	-	-	204	110	H
4	* 5.126501	48.64	RMS	34.3	-40.3	42.64	54	-11.36	-	-	204	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.62	Pk	34.3	-40.3	51.62	-	-	74	-22.38	162	117	V
2	* 5.009417	61.44	Pk	34.2	-40.4	55.24	-	-	74	-18.76	162	117	V
3	* 5.15	47.03	RMS	34.3	-40.3	41.03	54	-12.97	-	-	162	117	V
4	* 5.008028	49.14	RMS	34.2	-40.4	42.94	54	-11.06	-	-	162	117	V

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

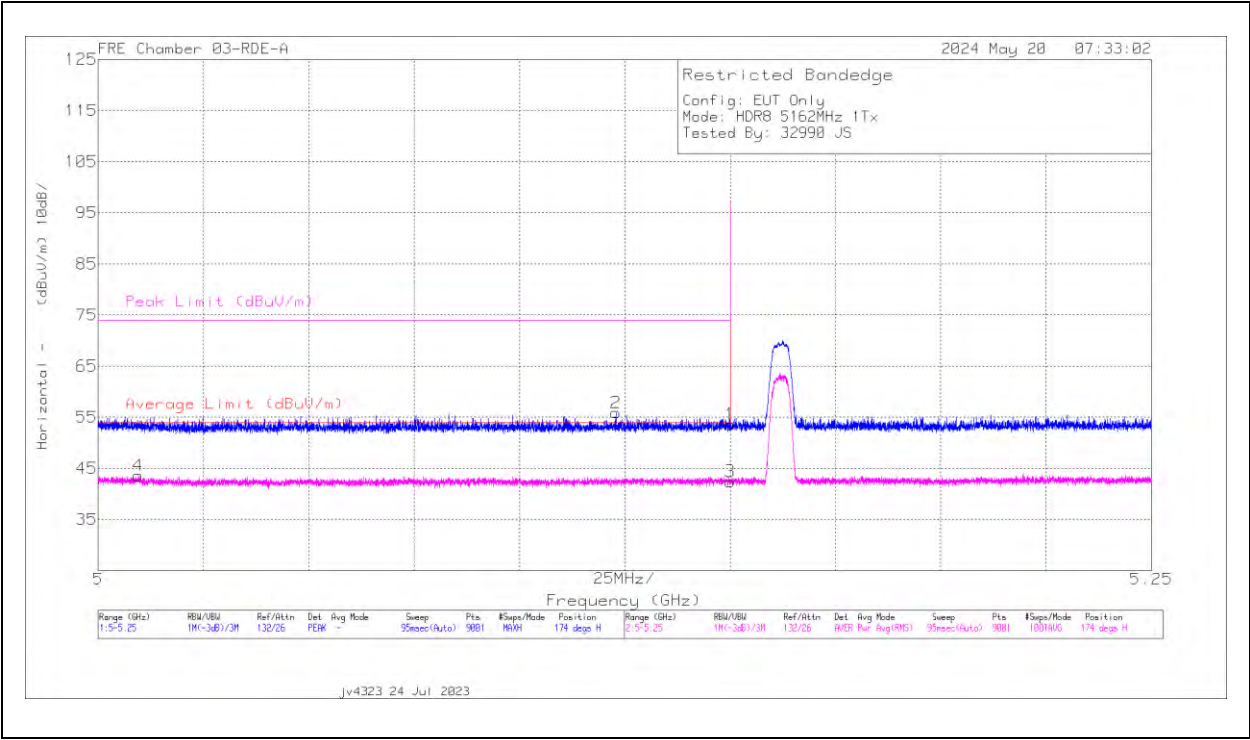
Pk - Peak detector

RMS - RMS detection

ANT 5, SISO MODE

LOW CHANNEL, 5162 MHz

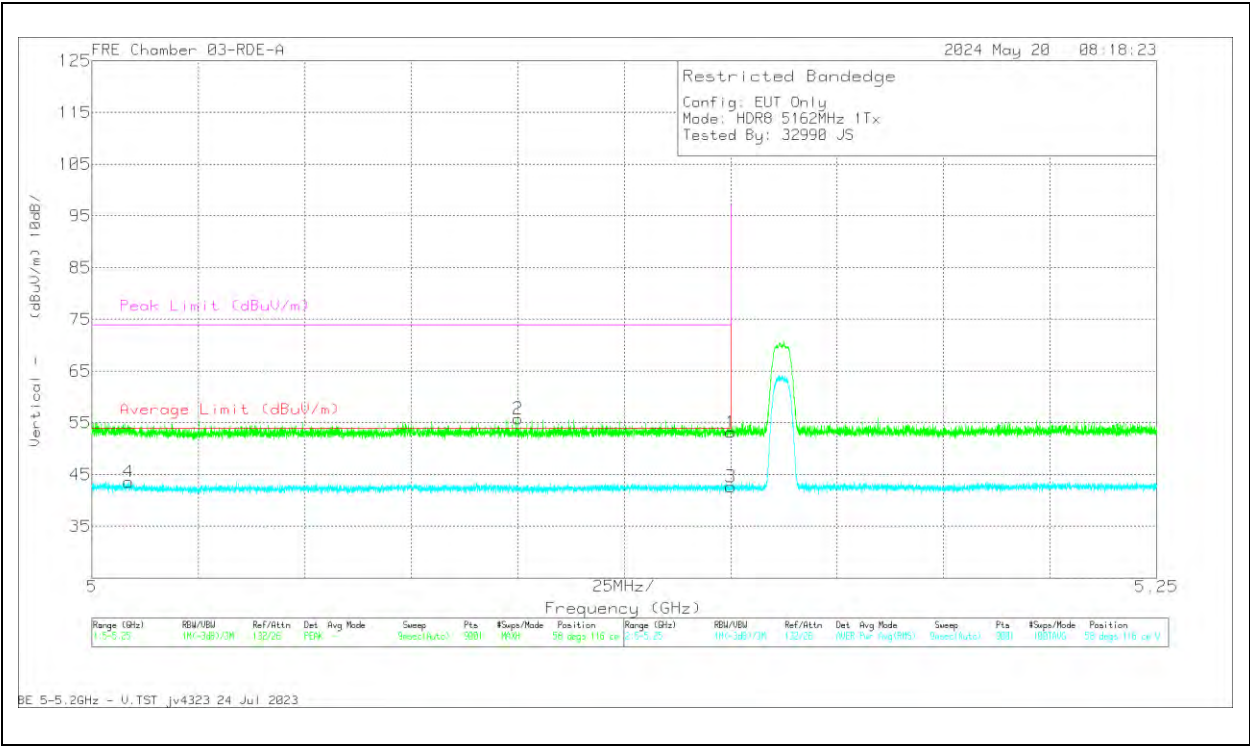
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.7	Pk	34.2	-38.28	53.62	-	-	74	-20.38	174	135	H
2	* 5.12289	60.08	PK	34.2	-38.41	55.87	-	-	74	-18.13	174	135	H
3	* 5.15	46.49	RMS	34.2	-38.28	42.41	54	-11.59	-	-	174	135	H
4	* 5.009556	47.92	RMS	34	-38.34	43.58	54	-10.42	-	-	174	135	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



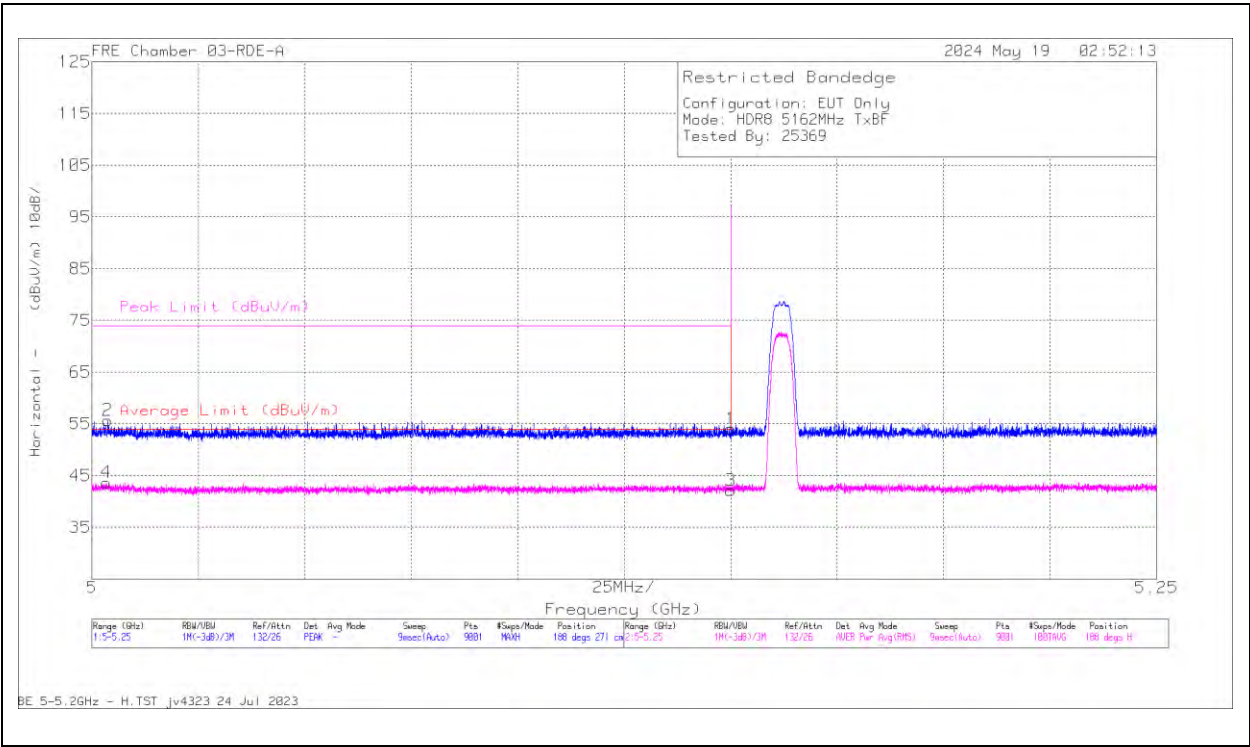
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.27	Pk	34.2	-38.28	53.19	-	-	74	-20.81	58	116	V
2	* 5.100029	60.03	Pk	34.1	-38.35	55.78	-	-	74	-18.22	58	116	V
3	* 5.15	46.75	RMS	34.2	-38.28	42.67	54	-11.33	-	-	58	116	V
4	* 5.008611	47.95	RMS	34	-38.37	43.58	54	-10.42	-	-	58	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 6 + ANT 5, MIMO TXBF MODE

LOW CHANNEL, 5162 MHz

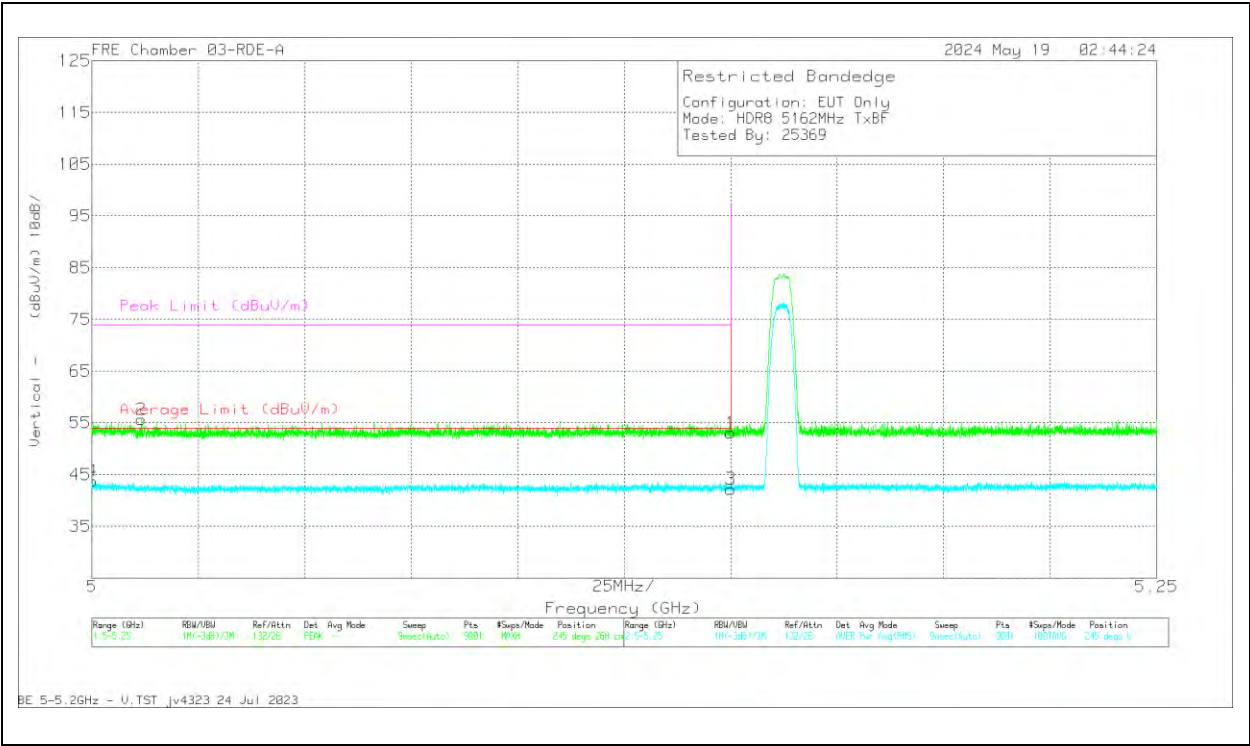
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	58.11	Pk	34.2	-38.28	54.03	-	-	74	-19.97	188	271	H
2	* 5.00375	59.93	Pk	34	-38.27	55.66	-	-	74	-18.34	188	271	H
3	* 5.15	46.23	RMS	34.2	-38.28	42.15	54	-11.85	-	-	188	271	H
4	* 5.003361	47.91	RMS	34	-38.25	43.66	54	-10.34	-	-	188	271	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

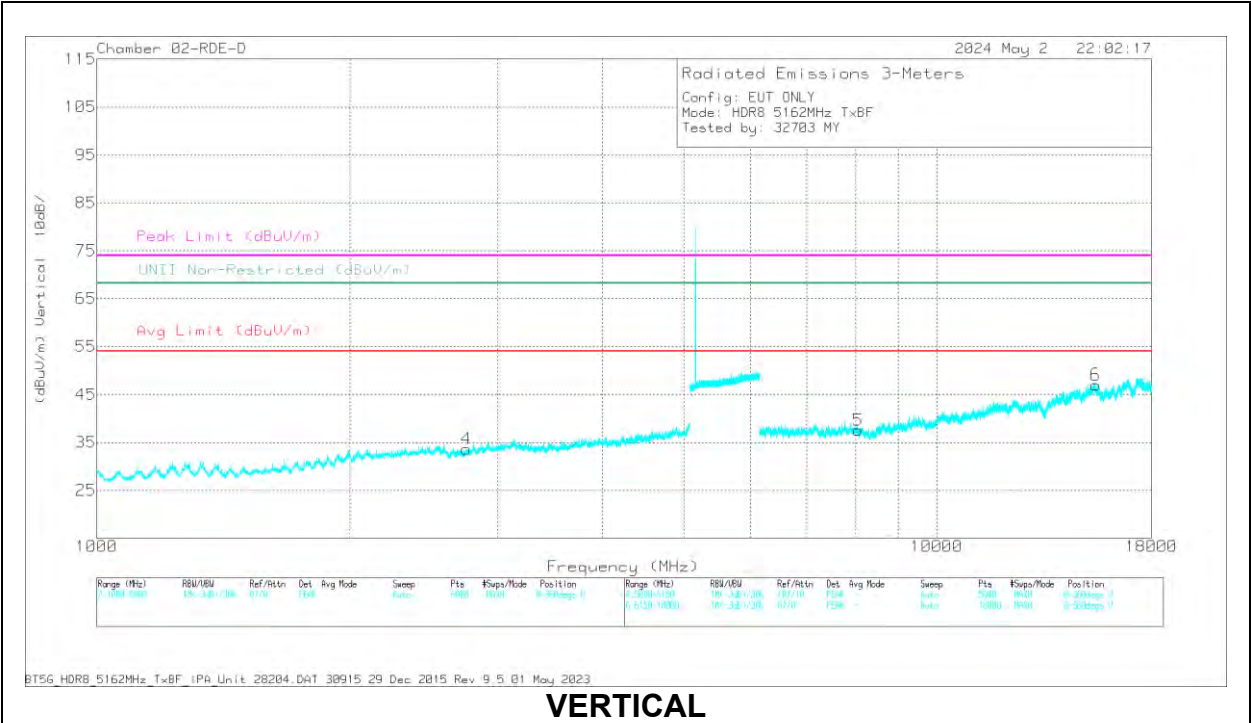
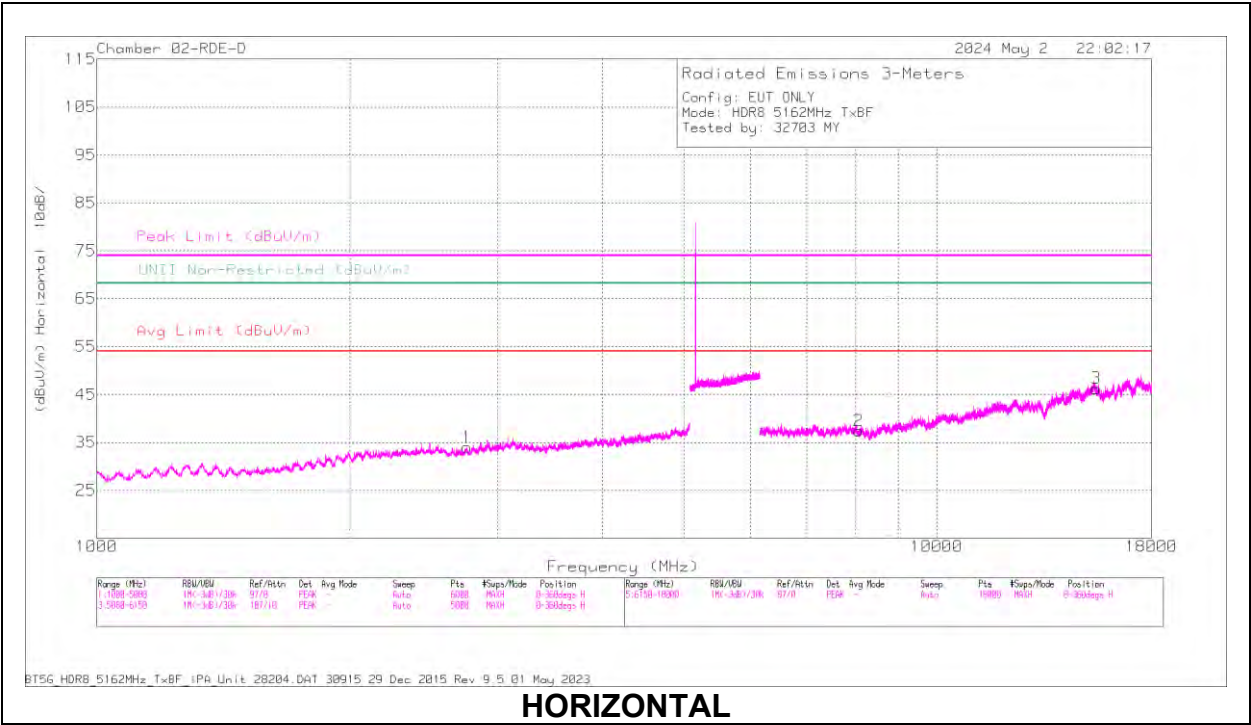


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	57.14	Pk	34.2	-38.28	53.06	-	-	74	-20.94	245	268	V
2	* 5.011639	59.92	Pk	34	-38.28	55.64	-	-	74	-18.36	245	268	V
3	* 5.15	46.28	RMS	34.2	-38.28	42.2	54	-11.8	-	-	245	268	V
4	* 5.000056	48.02	RMS	34	-38.3	43.72	54	-10.28	-	-	245	268	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.1.12. HDR 8 LOW POWER, UNII-1 BAND, MIMO TXBF MODE,
HARMONIC AND SPURIOUS

LOW CHANNEL, 5162 MHz



RADIATED EMISSIONS

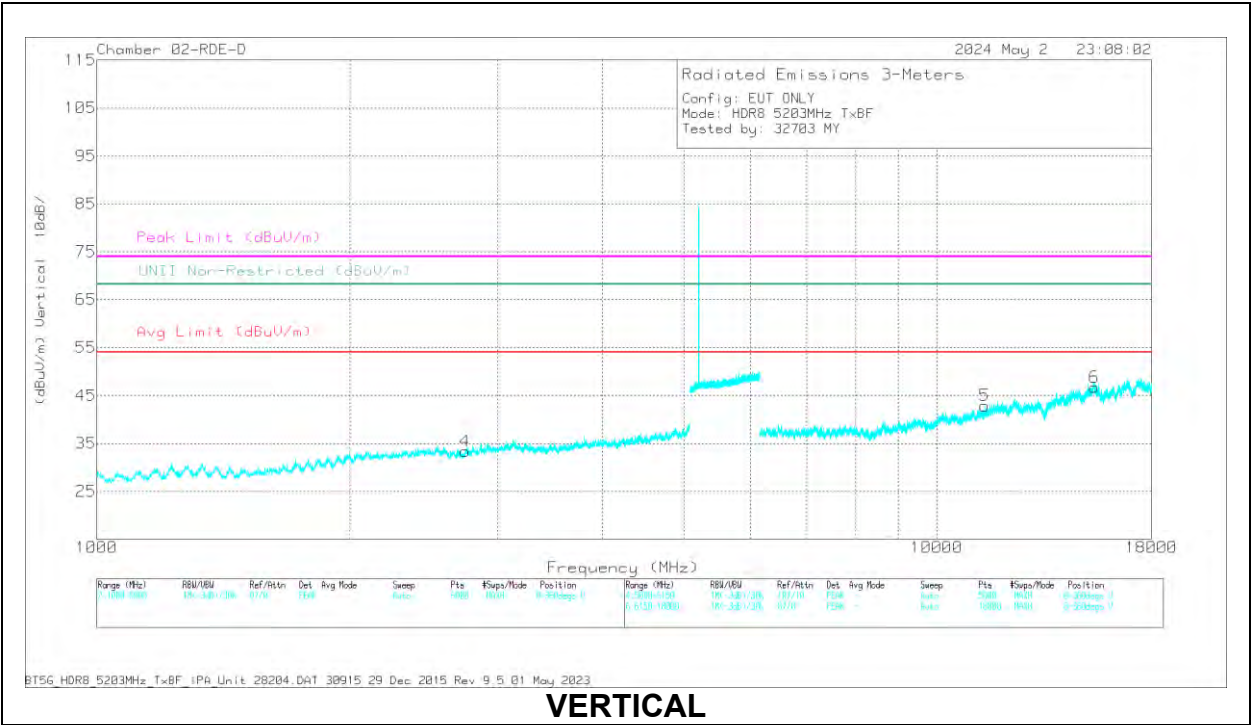
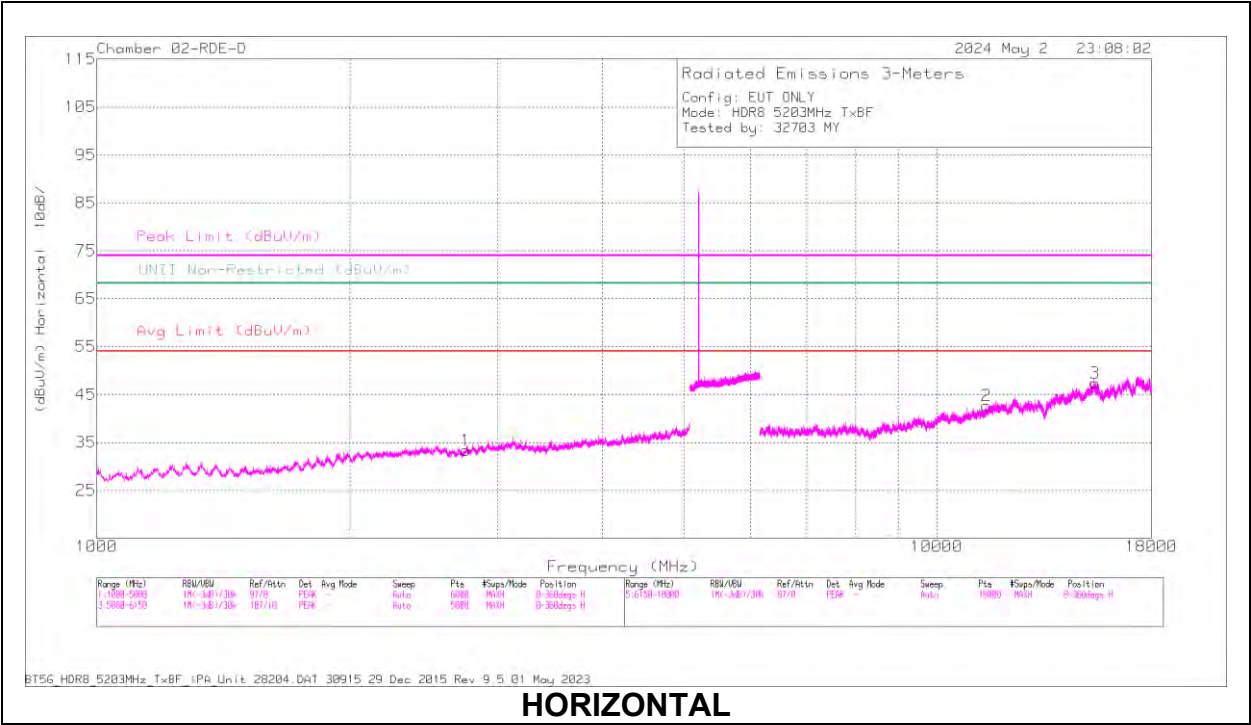
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2760.702	37.56	PK-U	32.1	-28	41.66	-	-	74	-32.34	360	200	H
	* 2759.364	24.59	ADR	32.1	-28	28.69	54	-25.31	-	-	360	200	H
4	* 2752.209	37.76	PK-U	32.1	-28.2	41.66	-	-	74	-32.34	360	101	V
	* 2751.095	24.69	ADR	32.1	-28.2	28.59	54	-25.41	-	-	360	101	V
2	* 8072.906	33.35	PK-U	35.8	-22.6	46.55	-	-	74	-27.45	360	101	H
	* 8072.049	19.1	ADR	35.8	-22.5	32.4	54	-21.6	-	-	360	101	H
3	* 15479.856	30.67	PK-U	39.7	-16.8	53.57	-	-	74	-20.43	360	199	H
	* 15479.879	17.25	ADR	39.7	-16.8	40.15	54	-13.85	-	-	360	199	H
5	* 8061.098	32.82	PK-U	35.8	-22.5	46.12	-	-	74	-27.88	360	101	V
	* 8061.53	19.18	ADR	35.8	-22.5	32.48	54	-21.52	-	-	360	101	V
6	* 15442.306	31.34	PK-U	39.7	-16.4	54.64	-	-	74	-19.36	360	101	V
	* 15442.734	17.78	ADR	39.7	-16.4	41.08	54	-12.92	-	-	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, 5203 MHz



RADIATED EMISSIONS

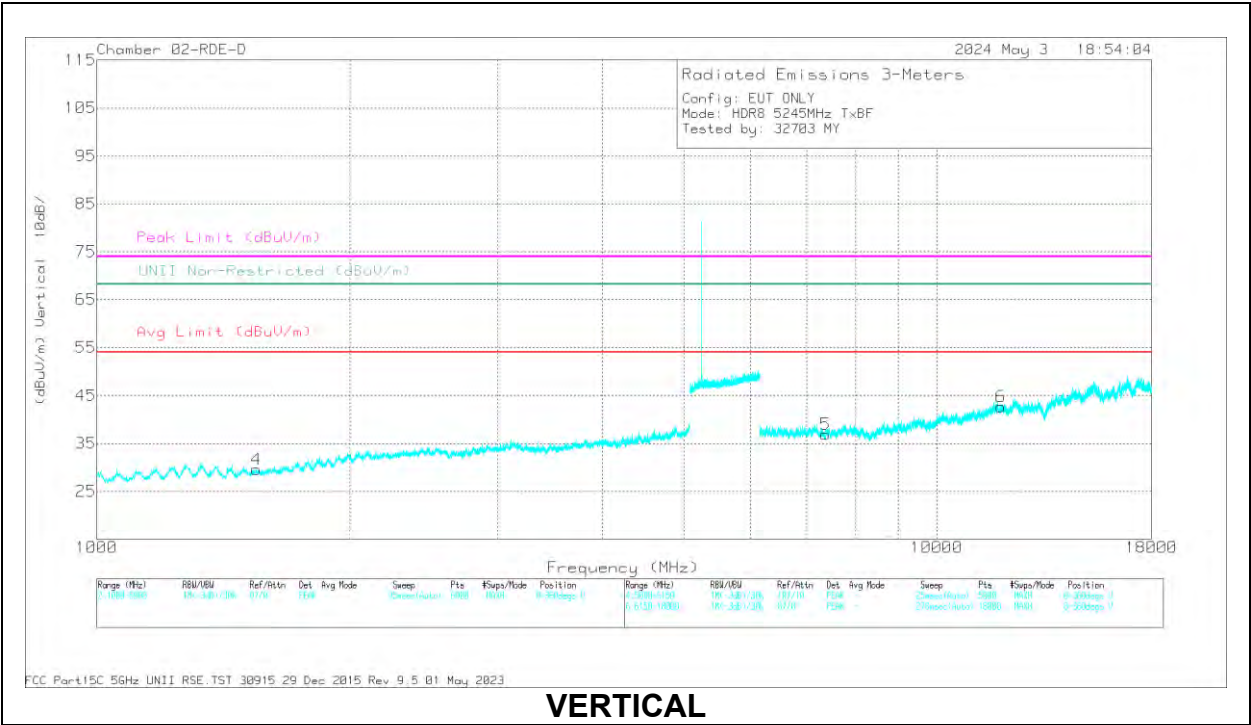
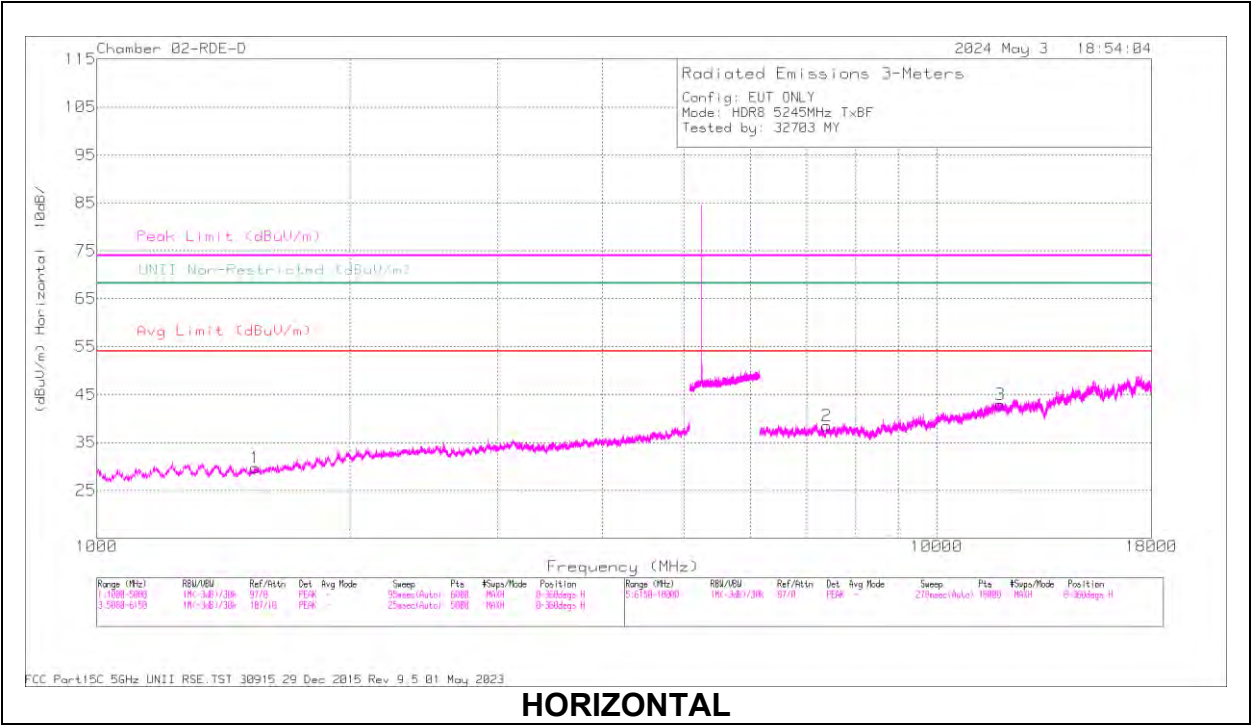
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2746.581	37.68	PK-U	32	-28.2	41.48	-	-	74	-32.52	0	101	H
	* 2747.912	24.67	ADR	32	-28.2	28.47	54	-25.53	-	-	0	101	H
4	* 2745.891	38.1	PK-U	32	-28.2	41.9	-	-	74	-32.1	0	200	V
	* 2745.998	24.55	ADR	32	-28.2	28.35	54	-25.65	-	-	0	200	V
2	* 11460.202	31.52	PK-U	38.4	-19.5	50.42	-	-	74	-23.58	0	200	H
	* 11458.179	18.47	ADR	38.4	-19.5	37.37	54	-16.63	-	-	0	200	H
3	* 15417.938	31.28	PK-U	39.6	-16.8	54.08	-	-	74	-19.92	0	101	H
	* 15418.802	18.12	ADR	39.6	-16.8	40.92	54	-13.08	-	-	0	101	H
5	* 11403.585	31.22	PK-U	38.5	-19.6	50.12	-	-	74	-23.88	0	101	V
	* 11401.565	17.82	ADR	38.5	-19.6	36.72	54	-17.28	-	-	0	101	V
6	* 15383.815	31.8	PK-U	39.6	-16.6	54.8	-	-	74	-19.2	0	200	V
	* 15386.497	18.19	ADR	39.6	-16.7	41.09	54	-12.91	-	-	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, 5245 MHz



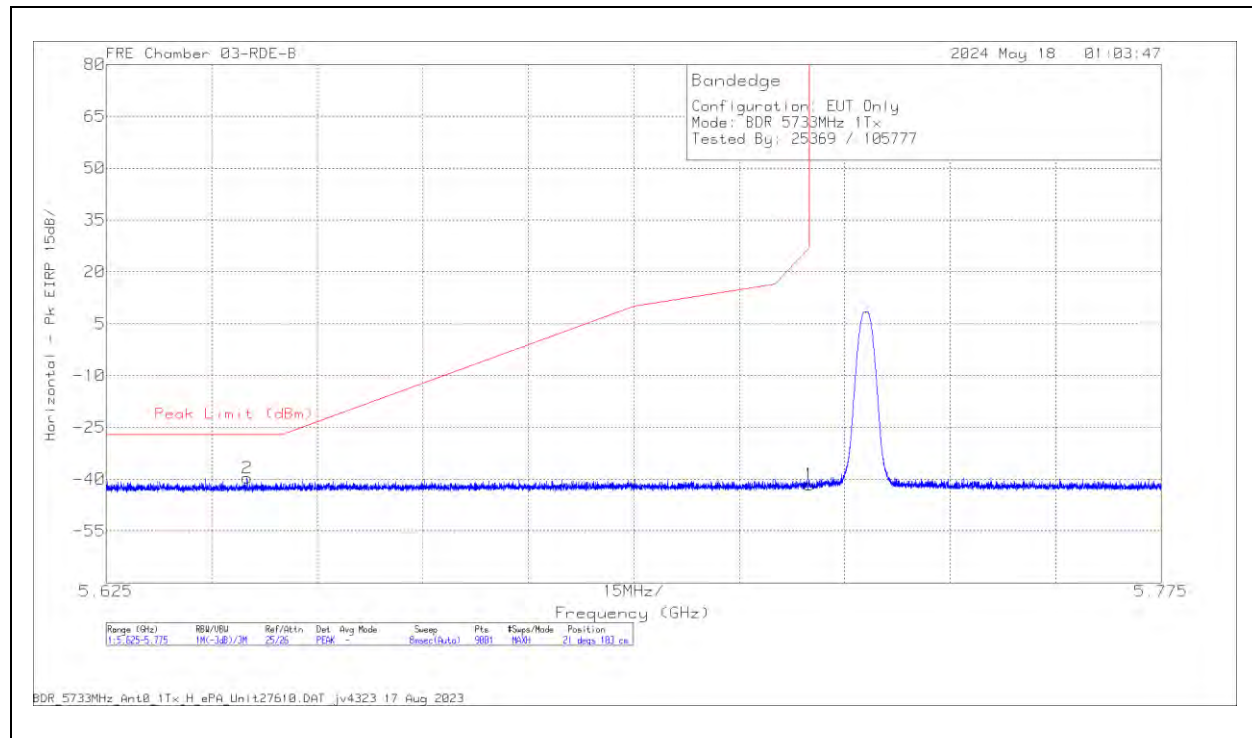
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200896 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1540.995	39.28	PK-U	28.4	-30.2	37.48	-	-	74	-36.52	360	101	H
	* 1542.515	26.17	ADR	28.4	-30.2	24.37	54	-29.63	-	-	360	101	H
4	* 1550.728	39.49	PK-U	28.4	-30.1	37.79	-	-	74	-36.21	360	200	V
	* 1547.416	26.12	ADR	28.4	-30	24.52	54	-29.48	-	-	360	200	V
2	* 7391.5	35.17	PK-U	35.5	-23.7	46.97	-	-	74	-27.03	360	200	H
	* 7390.019	21.08	ADR	35.5	-23.7	32.88	54	-21.12	-	-	360	200	H
3	* 11900.55	32.12	PK-U	38.7	-20	50.82	-	-	74	-23.18	360	200	H
	* 11901.197	19	ADR	38.7	-20	37.7	54	-16.3	-	-	360	200	H
5	* 7365.754	34.06	PK-U	35.5	-24.1	45.46	-	-	74	-28.54	360	101	V
	* 7366.21	20.47	ADR	35.5	-24.1	31.87	54	-22.13	-	-	360	101	V
6	* 11924.603	33.17	PK-U	38.8	-20.2	51.77	-	-	74	-22.23	360	200	V
	* 11925.808	19.5	ADR	38.8	-20.2	38.1	54	-15.9	-	-	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

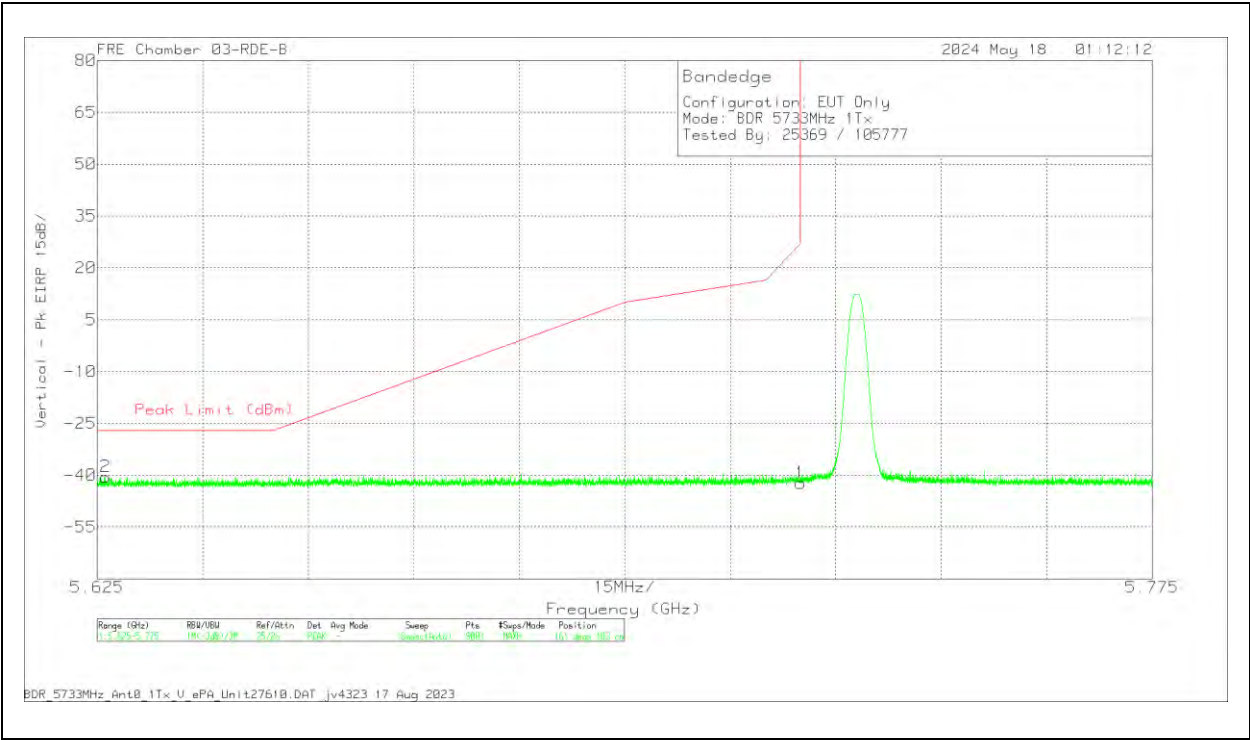
10.1.13. BDR HIGH POWER, UNII-3 BAND, BANDEDGE**ANT 6, SISO MODE****LOW CHANNEL, 5733 MHz****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230300 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.645034	-46.54	Pk	34.4	11.8	-39.3	-39.64	-27	-12.64	21	103	H
1	5.725	-48.76	Pk	34.5	11.8	-39.1	-41.56	27	-68.56	21	103	H

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

Pk - Peak detector

VERTICAL RESULT

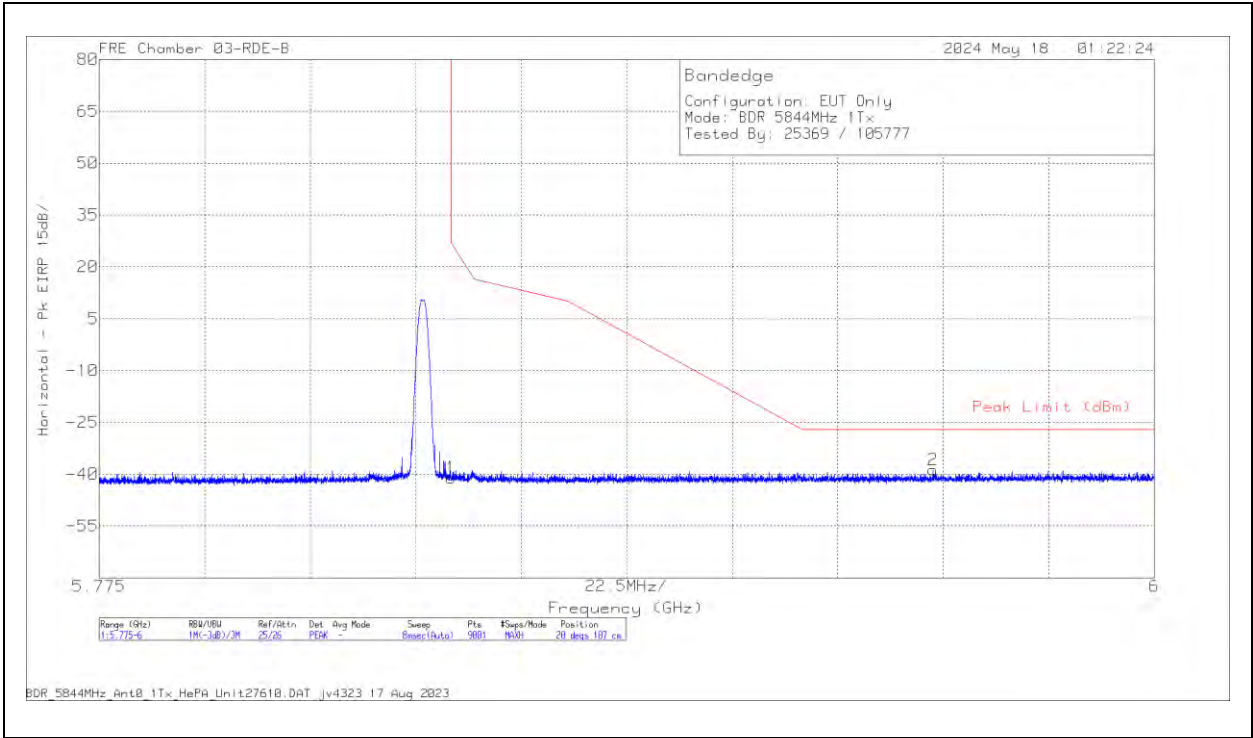


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230300 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626183	-47.36	Pk	34.4	11.8	-39.3	-40.46	-27	-13.46	161	103	V
1	5.725	-49.46	Pk	34.5	11.8	-39.1	-42.26	27	-69.26	161	103	V

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

HIGH CHANNEL, 5844 MHz

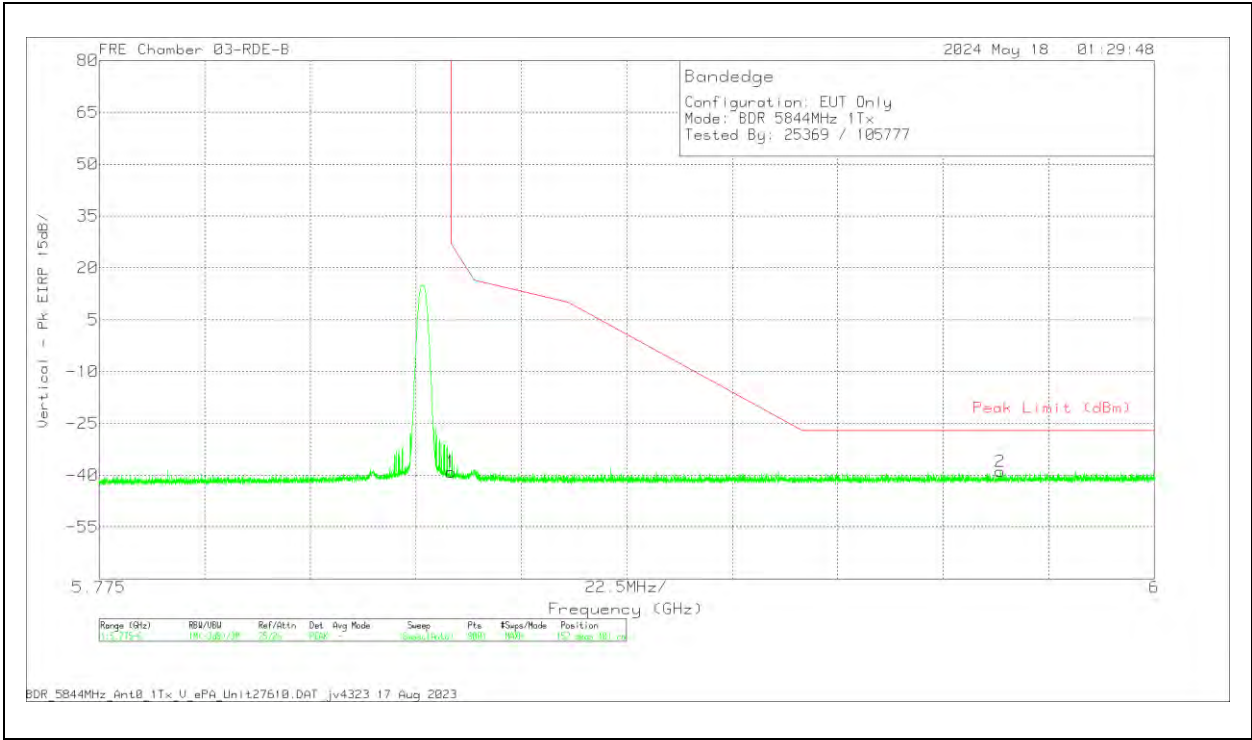
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230300 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-48.72	Pk	34.7	11.8	-38.8	-41.02	27	-68.02	20	107	H
2	5.9528	-46.97	Pk	34.9	11.8	-38.5	-38.77	-27	-11.77	20	107	H

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

VERTICAL RESULT



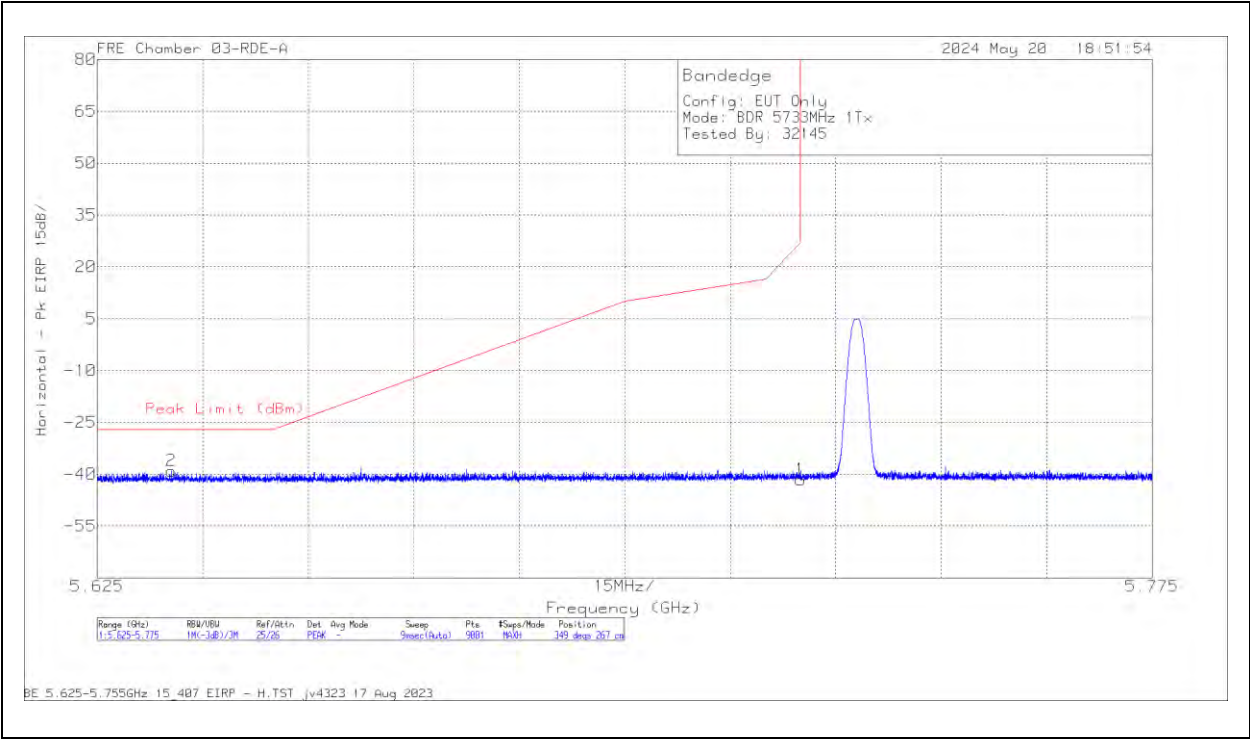
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230300 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-46.79	Pk	34.7	11.8	-38.8	-39.09	27	-66.09	152	101	V
2	5.967125	-47.26	Pk	35	11.8	-38.5	-38.96	-27	-11.96	152	101	V

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

ANT 5, SISO MODE

LOW CHANNEL, 5733 MHz

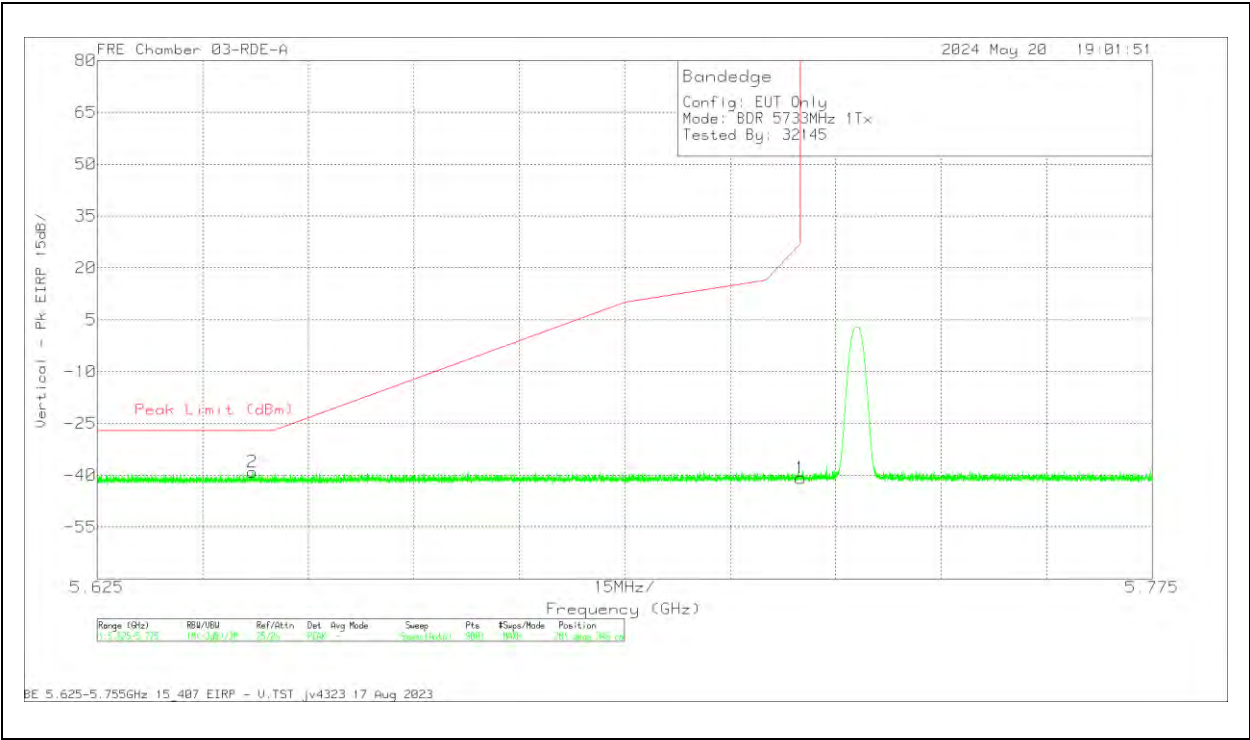
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.635517	-47.89	Pk	34.4	11.8	-37.33	-39.02	-27	-12.02	349	267	H
1	5.725	-50.84	Pk	34.6	11.8	-37.13	-41.57	27	-68.57	349	267	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	226673 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647084	-47.94	Pk	34.4	11.8	-37.34	-39.08	-27	-12.08	281	346	V
1	5.725	-50.07	Pk	34.6	11.8	-37.13	-40.8	27	-67.8	281	346	V

Pk - Peak detector