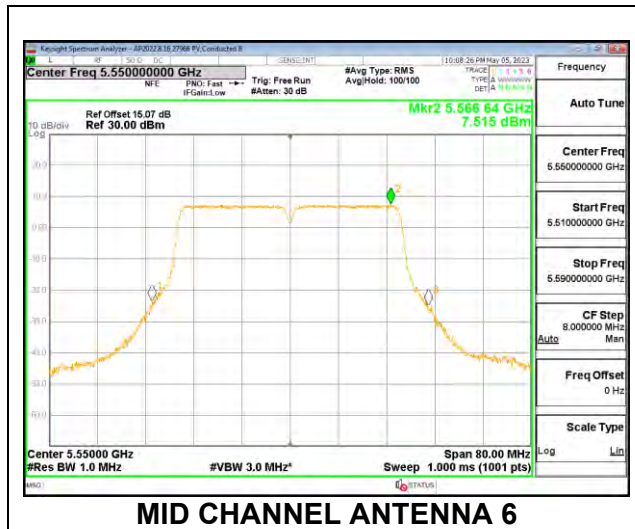
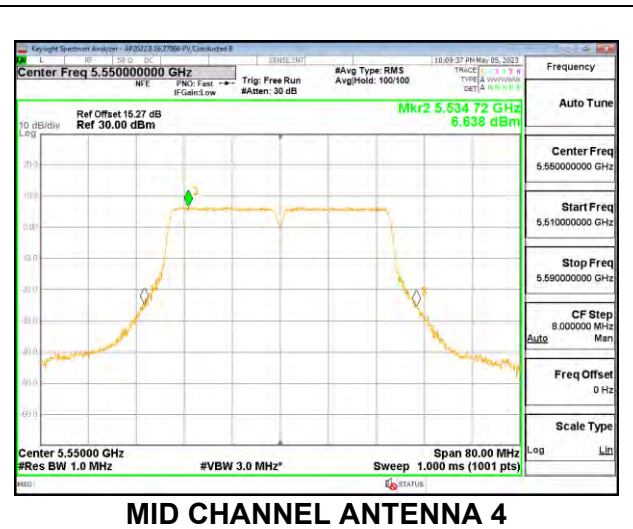


### MID CHANNEL



**MID CHANNEL ANTENNA 6**



**MID CHANNEL ANTENNA 4**

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966, DC23653
<b>Test Date:</b>	2023-09-18

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5510	45.28	36.396	3.59	9.61
Mid	5550	45.52	36.433	3.59	9.61
High	5670	45.28	36.385	3.59	9.61
142	5710	45.52	36.396	3.59	9.61

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5510	24.00	24.00	30.00	24.00	7.39	11.00	7.39
Mid	5550	24.00	24.00	30.00	24.00	7.39	11.00	7.39
High	5670	24.00	24.00	30.00	24.00	7.39	11.00	7.39
142	5710	24.00	24.00	30.00	24.00	7.39	11.00	7.39

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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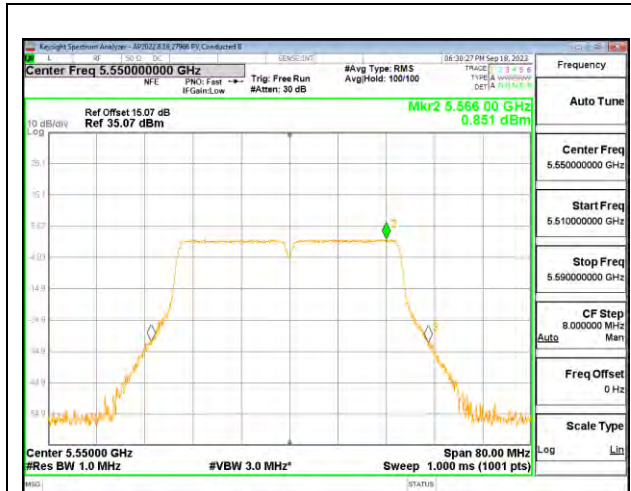
**Output Power Results**

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Antenna 9 Meas Power (dBm)	Antenna 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	16.22	15.96	15.76	16.21	22.06	24.00	-1.94
Mid	5550	15.86	15.85	15.69	16.01	21.87	24.00	-2.13
High	5670	16.21	16.36	15.81	16.22	22.18	24.00	-1.82
142	5710	15.91	15.97	15.33	16.01	21.83	24.00	-2.17

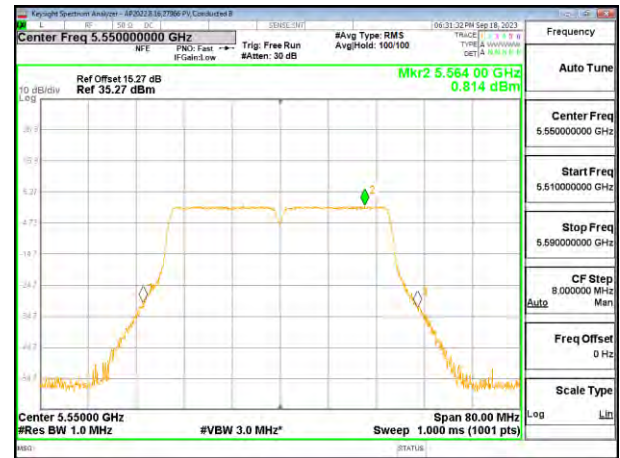
**PSD Results**

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/ 1MHz)	Antenna 4 Meas PSD (dBm/ 1MHz)	Antenna 9 Meas PSD (dBm/ 1MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	1.404	0.76	0.619	1.108	7.00	7.39	-0.39
Mid	5550	0.851	0.814	0.507	1.125	6.85	7.39	-0.54
High	5670	1.148	1.125	0.769	0.994	7.03	7.39	-0.36
142	5710	0.892	1.073	0.407	1.021	6.88	7.39	-0.51

### MID CHANNEL



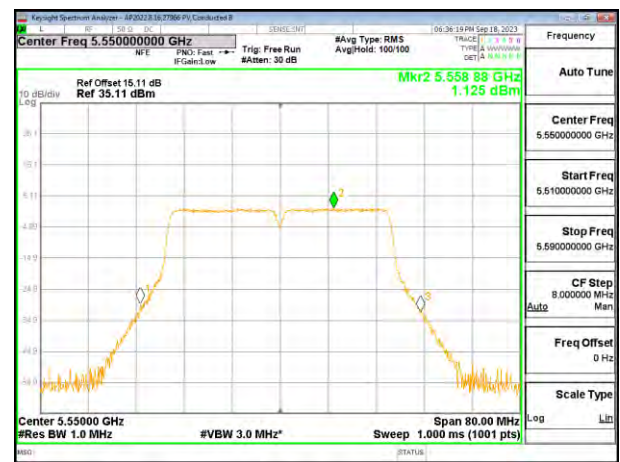
MID CHANNEL ANTENNA 6



MID CHANNEL ANTENNA 4



MID CHANNEL ANTENNA 9



MID CHANNEL ANTENNA 1

### 9.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

#### 1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	PV 27966
Test Date:	2023-05-19 to 2023-06-01

#### Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	96.00	76.270	3.59
High	5610	96.32	76.241	3.59
138	5690	121.92	76.950	3.59

#### Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

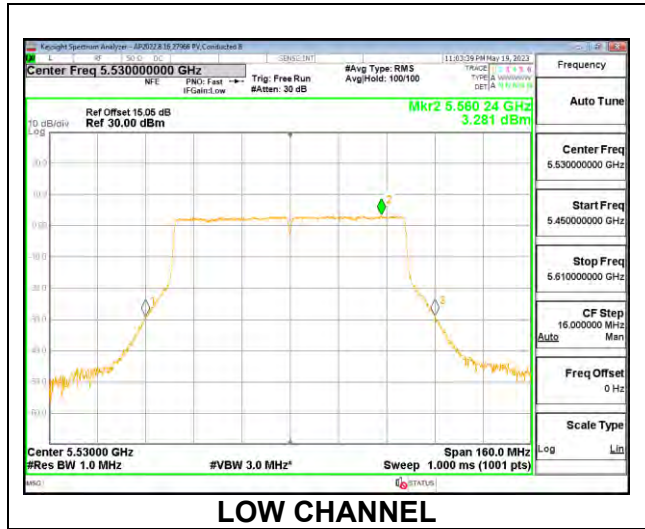
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	21.06	21.06	24.00	-2.94
High	5610	23.68	23.68	24.00	-0.32
138	5690	23.72	23.72	24.00	-0.28

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	3.281	3.281	11.00	-7.72
High	5610	5.027	5.027	11.00	-5.97
138	5690	5.237	5.237	11.00	-5.76



**2TX Antenna 6 + Antenna 4 CDD MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966
<b>Test Date:</b>	2023-05-22 to 2023-06-01

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	93.92	76.289	3.59	6.60
High	5610	93.60	76.310	3.59	6.60
138	5690	95.84	76.508	3.59	6.60

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	10.40	11.00	10.40
High	5610	24.00	24.00	30.00	24.00	10.40	11.00	10.40
138	5690	24.00	24.00	30.00	24.00	10.40	11.00	10.40

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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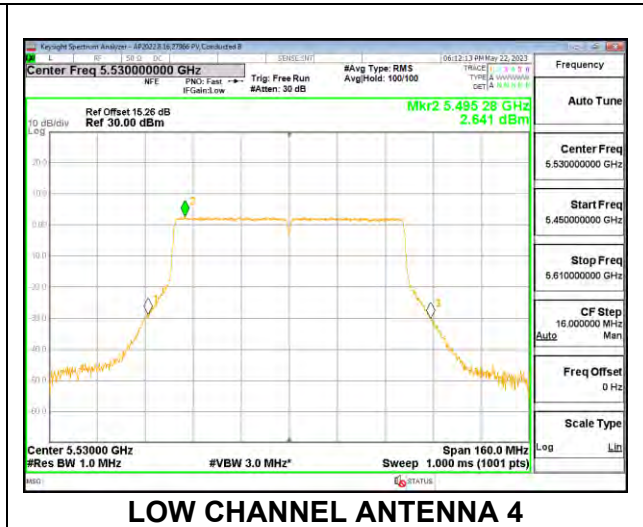
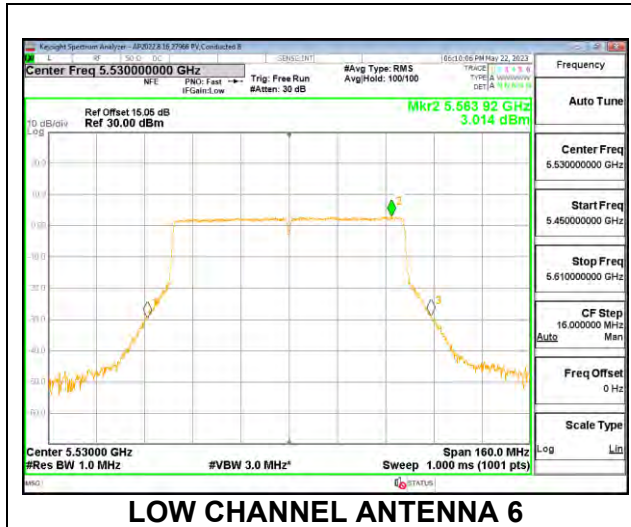
**Output Power Results**

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	20.85	20.44	23.66	24.00	-0.34
High	5610	20.89	20.46	23.69	24.00	-0.31
138	5690	20.55	20.32	23.45	24.00	-0.55

**PSD Results**

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/ 1MHz)	Antenna 4 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	3.014	2.641	5.842	10.40	-4.56
High	5610	1.670	1.046	4.379	10.40	-6.02
138	5690	1.723	1.663	4.703	10.40	-5.70

### LOW CHANNEL



**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966, DC 23653
<b>Test Date:</b>	2023-09-18

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	92.48	76.036	3.59	9.61
High	5610	92.00	76.010	3.59	9.61
138	5690	92.96	76.053	3.59	9.61

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5530	24.00	24.00	30.00	24.00	7.39	11.00	7.39
High	5610	24.00	24.00	30.00	24.00	7.39	11.00	7.39
138	5690	24.00	24.00	30.00	24.00	7.39	11.00	7.39

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

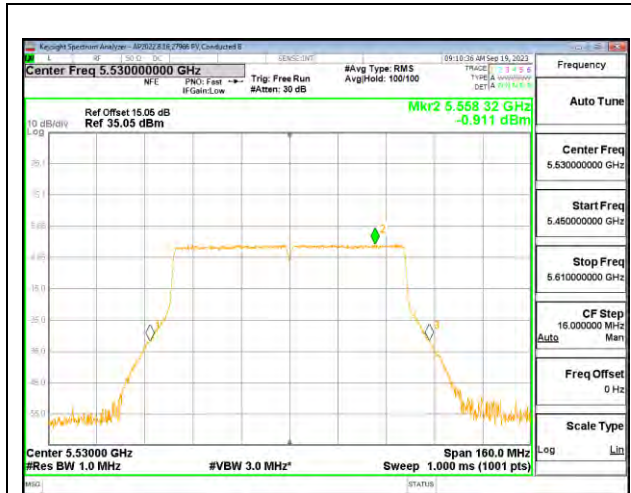
Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Antenna 9 Meas Power (dBm)	Antenna 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.39	17.47	17.41	17.73	23.52	24.00	-0.48
High	5610	17.53	17.62	17.61	17.83	23.67	24.00	-0.33
138	5690	17.84	18.05	17.55	17.73	23.82	24.00	-0.18

**PSD Results**

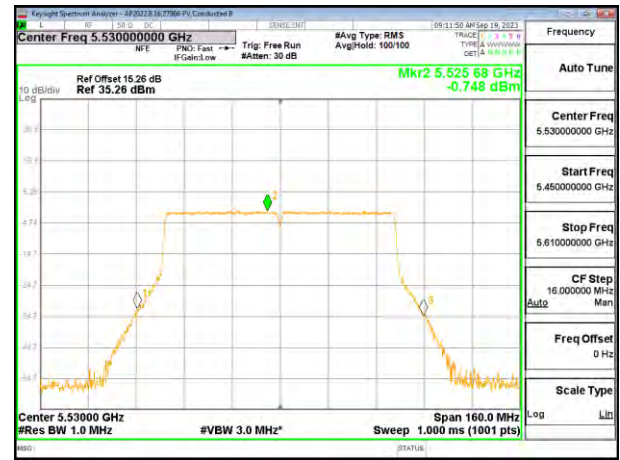
Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 4 Meas PSD (dBm/1MHz)	Antenna 9 Meas PSD (dBm/1MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5530	-0.911	-0.748	-0.859	-0.429	5.288	7.39	-2.10
High	5610	-0.816	-0.480	-0.650	-0.409	5.435	7.39	-1.96
138	5690	-0.188	-0.229	-0.826	-0.625	5.562	7.39	-1.83



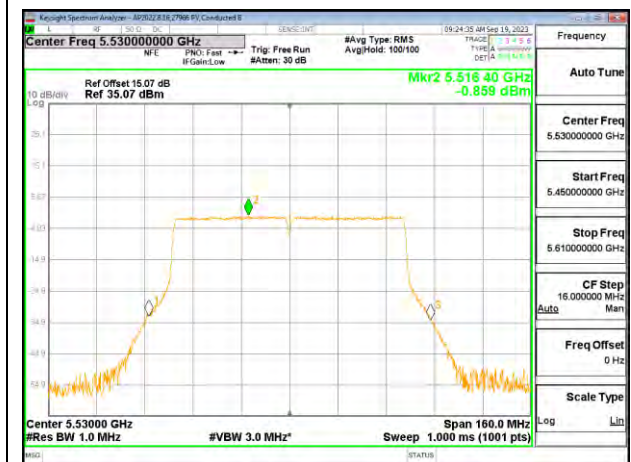
**LOW CHANNEL**



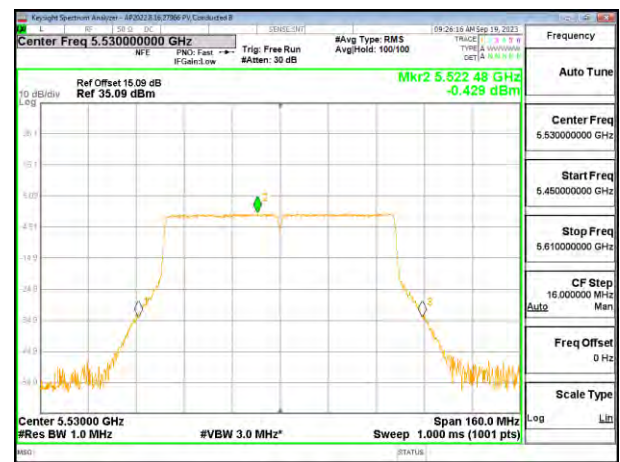
**LOW CHANNEL ANTENNA 6**



**LOW CHANNEL ANTENNA 4**



**LOW CHANNEL ANTENNA 9**



**LOW CHANNEL ANTENNA 1**

**9.5.10. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND**

**1TX Antenna 6 MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966
<b>Test Date:</b>	2023-05-23

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5570	176.32	156.30	3.59

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5570	24.00	24.00	30.00	24.00	11.00	11.00	11.00

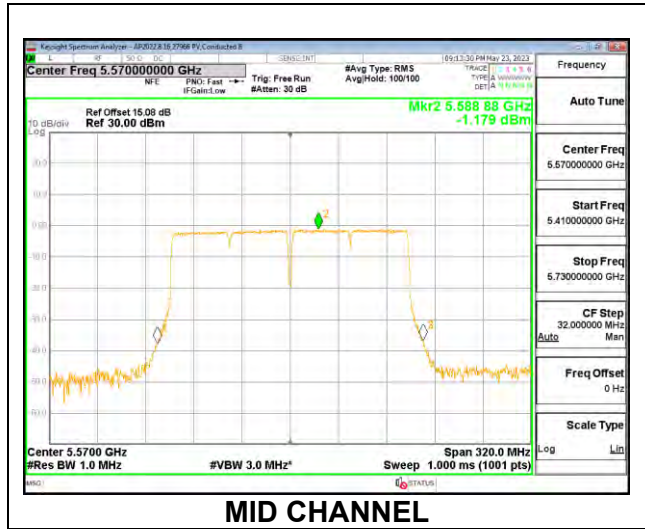
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5570	19.41	19.41	24.00	-4.59

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5570	-1.179	-1.179	11.00	-12.18



**2TX Antenna 6 + Antenna 4 CDD MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966
<b>Test Date:</b>	2023-05-23

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5570	175.68	156.09	3.59	6.60

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5570	24.00	24.00	30.00	24.00	10.40	11.00	10.40

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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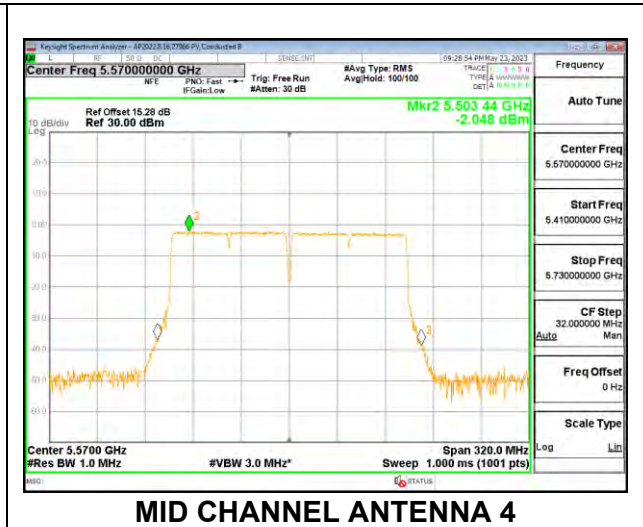
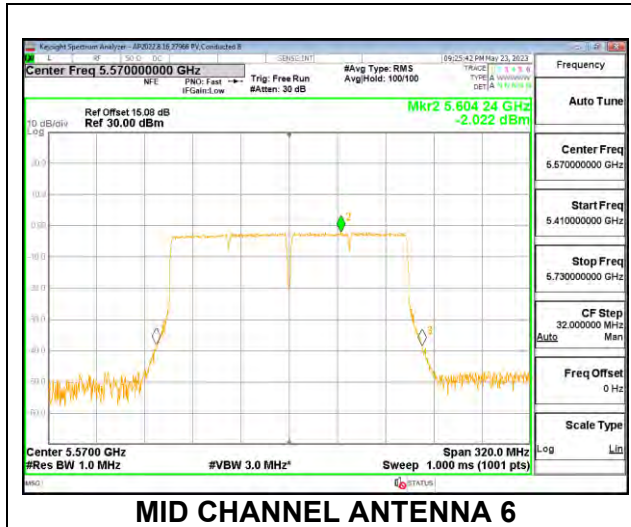
**Output Power Results**

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5570	18.17	18.18	21.19	24.00	-2.81

**PSD Results**

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/ 1MHz)	Antenna 4 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5570	-2.022	-2.048	0.975	10.40	-9.42

### MID CHANNEL



**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE (FCC+IC)**

<b>Test Engineer:</b>	PV 27966, DC 23653
<b>Test Date:</b>	2023-09-18

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5570	175.04	155.50	3.59	9.61

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5570	24.00	24.00	30.00	24.00	7.39	11.00	7.39

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 4 Meas Power (dBm)	Antenna 9 Meas Power (dBm)	Antenna 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5570	15.52	15.74	15.75	16.02	21.78	24.00	-2.22

**PSD Results**

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/ 1MHz)	Antenna 4 Meas PSD (dBm/ 1MHz)	Antenna 9 Meas PSD (dBm/ 1MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5570	-5.63	-5.192	-5.367	-4.733	0.803	7.39	-6.59

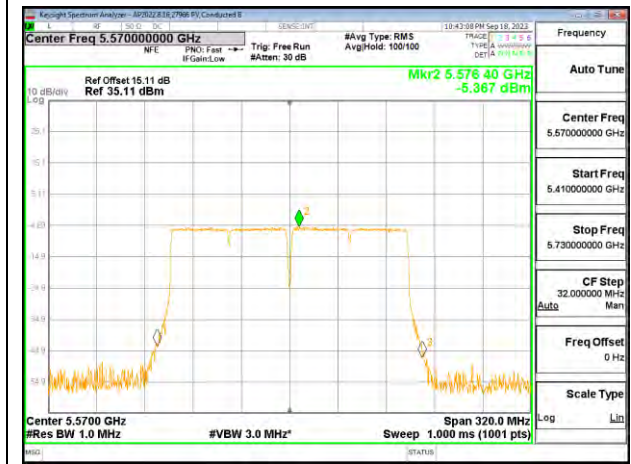
### MID CHANNEL



MID CHANNEL ANTENNA 6



MID CHANNEL ANTENNA 4



MID CHANNEL ANTENNA 9



MID CHANNEL ANTENNA 1



## 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

6.2.2.2 (for 5250-5350 MHz band)

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

### TEST PROCEDURE

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

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements 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.



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

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

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

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

NOTE: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the 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.

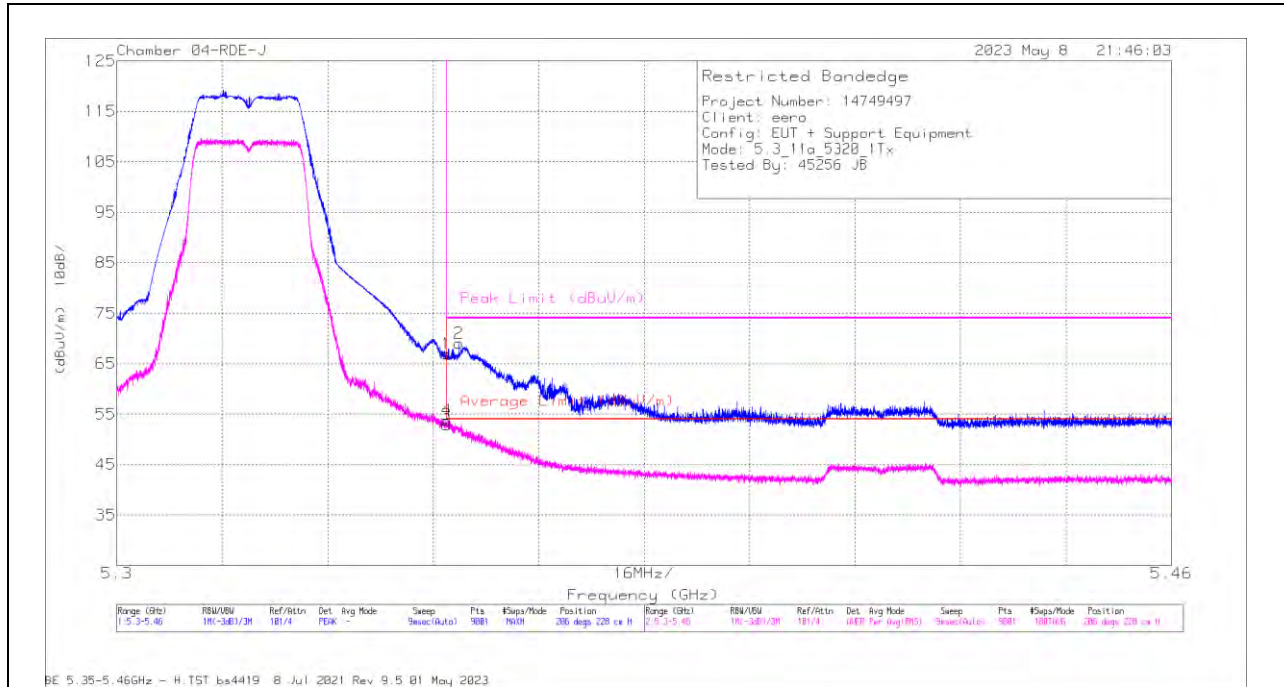
## 10.1. TRANSMITTER ABOVE 1 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

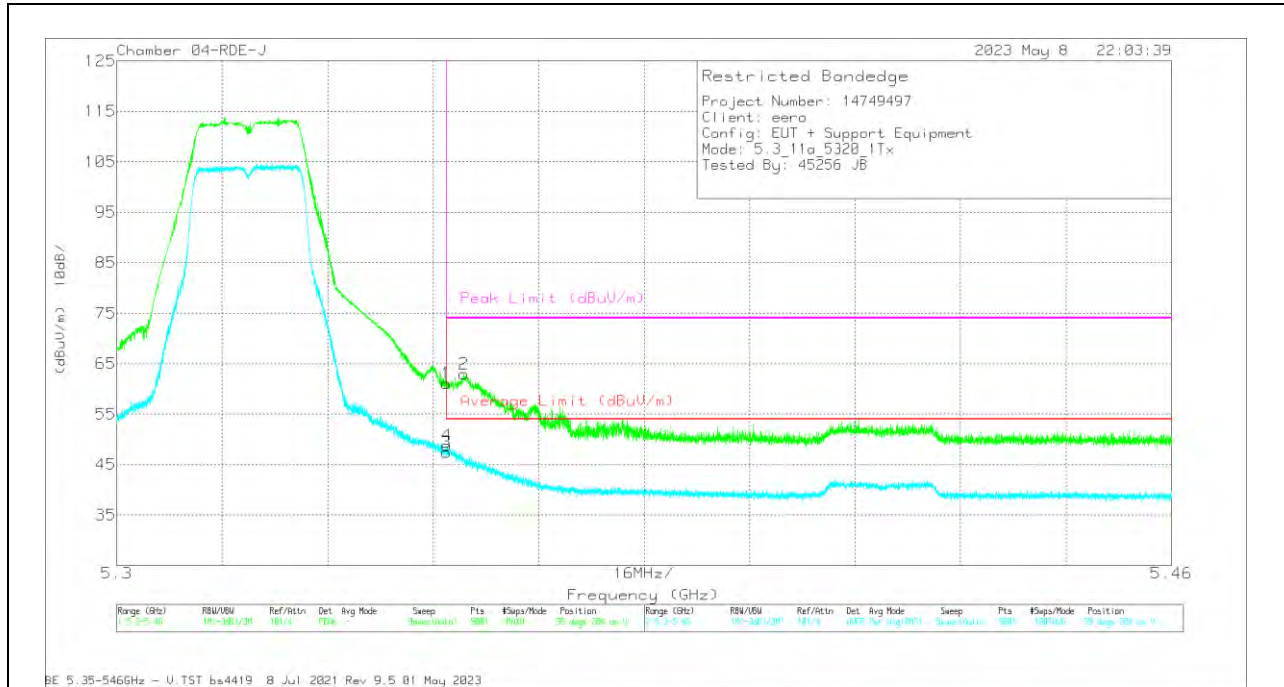
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) -3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	45.74	Pk	35	-13.8	66.94	-	-	74	-7.06	206	228	H
2	* 5.351894	47.87	Pk	35	-13.8	69.07	-	-	74	-4.93	206	228	H
3	* 5.35	31.72	RMS	35	-13.8	52.92	54	-1.08	-	-	206	228	H
4	* 5.350098	32.59	RMS	35	-13.8	53.79	54	-2.1	-	-	206	228	H

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

PK - Peak detector

RMS - RMS detection

### VERTICAL RESULT



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) -3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.92	Pk	35	-13.8	61.12	-	-	74	-12.88	99	284	V
2	* 5.352641	41.7	Pk	35	-13.8	62.9	-	-	74	-11.1	99	284	V
3	* 5.35	26.22	RMS	35	-13.8	47.42	54	-6.58	-	-	99	284	V
4	* 5.350134	27.64	RMS	35	-13.8	48.84	54	-5.16	-	-	99	284	V

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

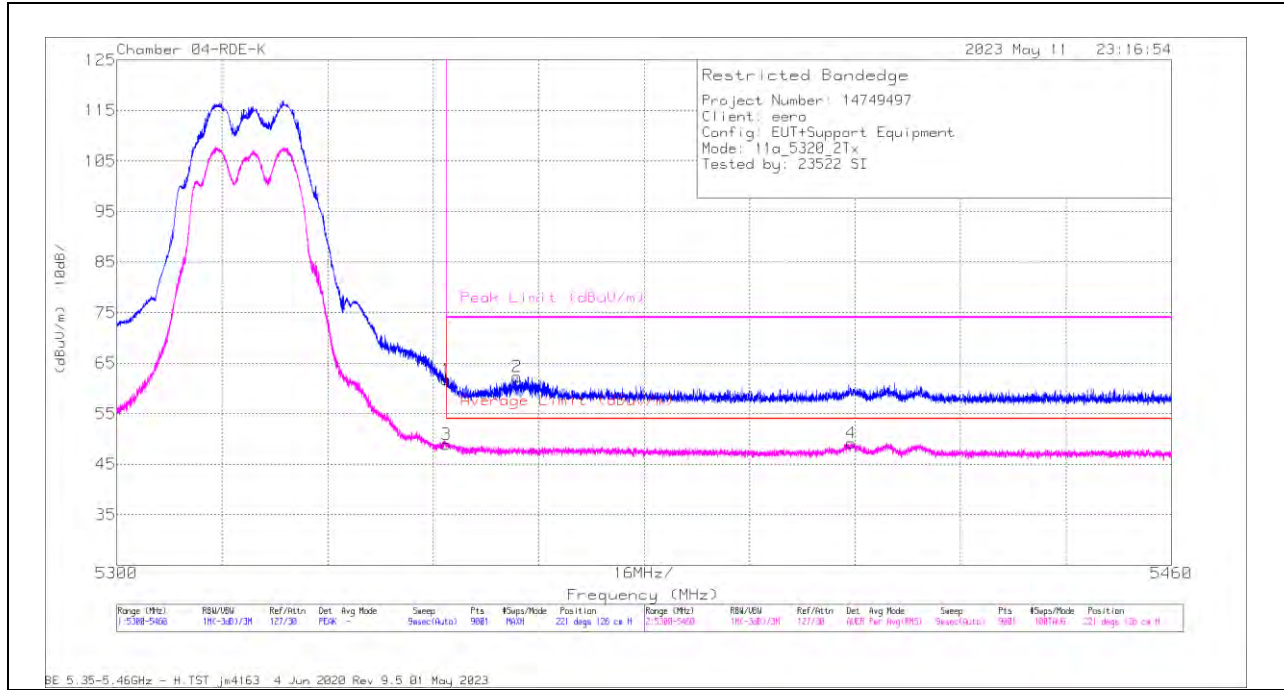
Pk - Peak detector

RMS - RMS detection

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

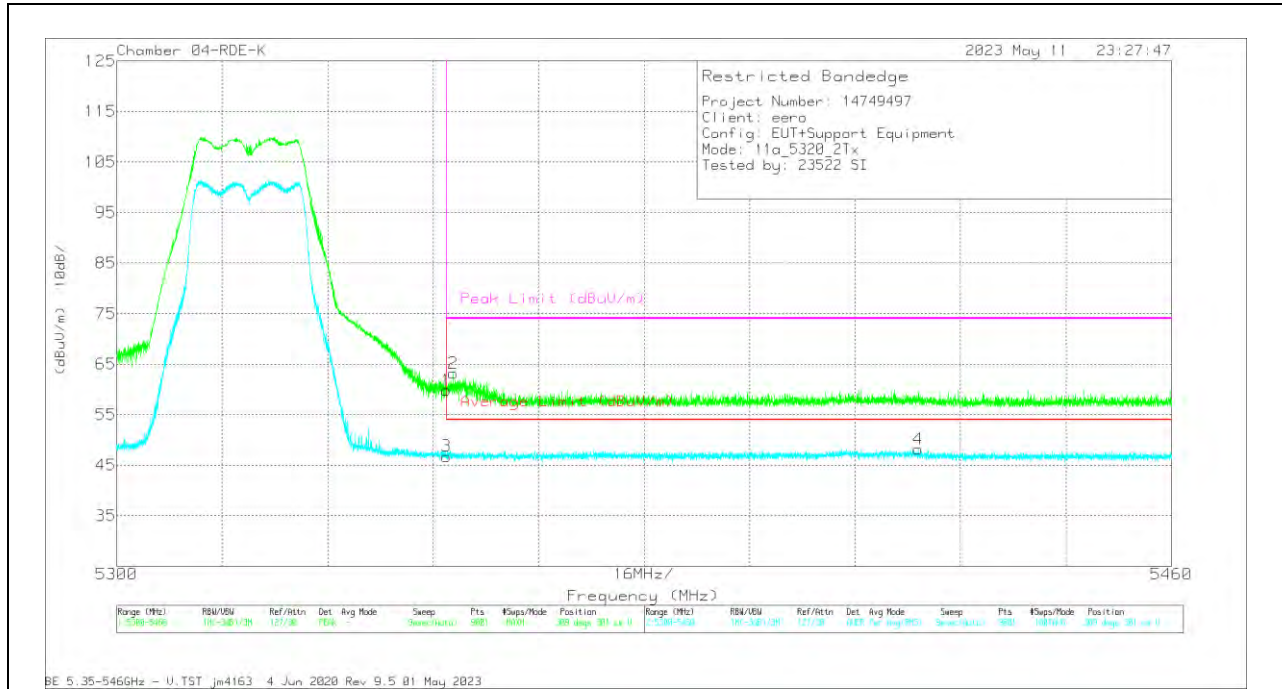


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	57.96	Pk	34.5	-30.7	61.76	-	-	74	-12.24	221	126	H
2	* 5360.712	58.56	Pk	34.5	-30.7	62.36	-	-	74	-11.64	221	126	H
3	* 5350	44.98	RMS	34.5	-30.7	48.78	54	-5.22	-	-	221	126	H
4	* 5411.433	45.09	RMS	34.6	-30.6	49.09	54	-4.91	-	-	221	126	H

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

### VERTICAL RESULT



### Trace Markers

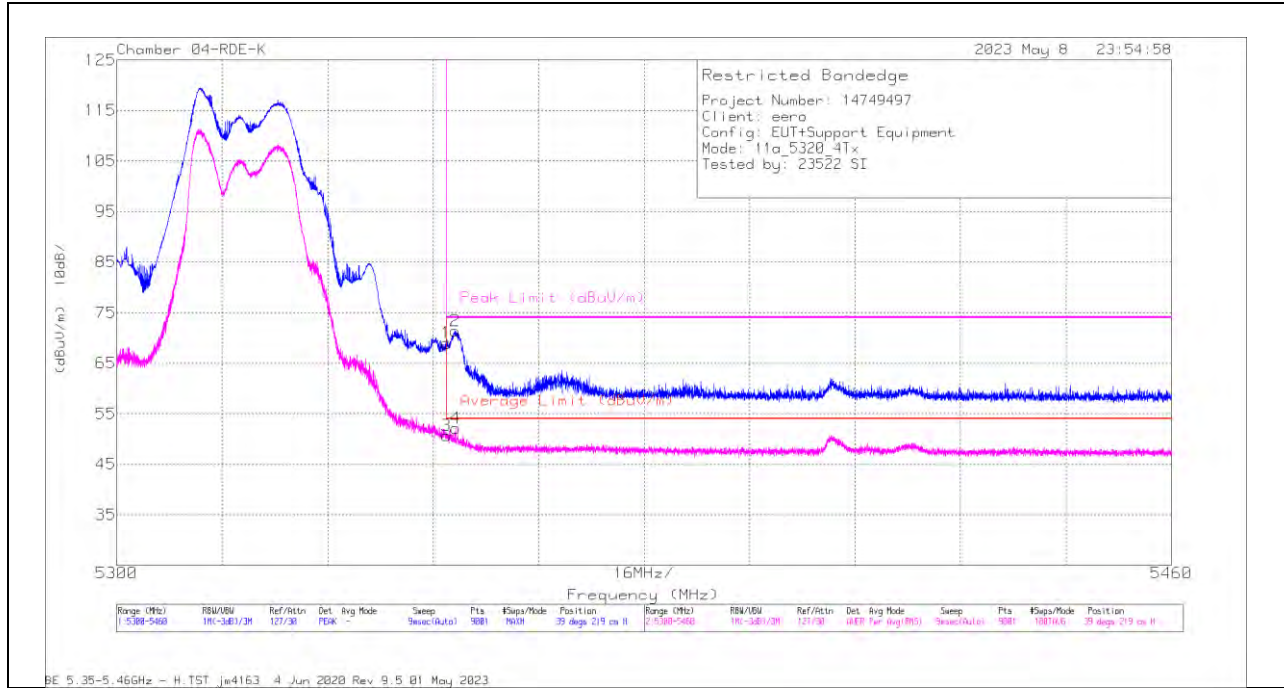
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	56.06	Pk	34.5	-30.7	59.86	-	-	74	-14.14	309	301	V
2	* 5351.041	59.36	Pk	34.5	-30.7	63.16	-	-	74	-10.84	309	301	V
3	* 5350	42.86	RMS	34.5	-30.7	46.66	54	-7.34	-	-	309	301	V
4	* 5421.602	44.16	RMS	34.6	-30.7	48.06	54	-5.94	-	-	309	301	V

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

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



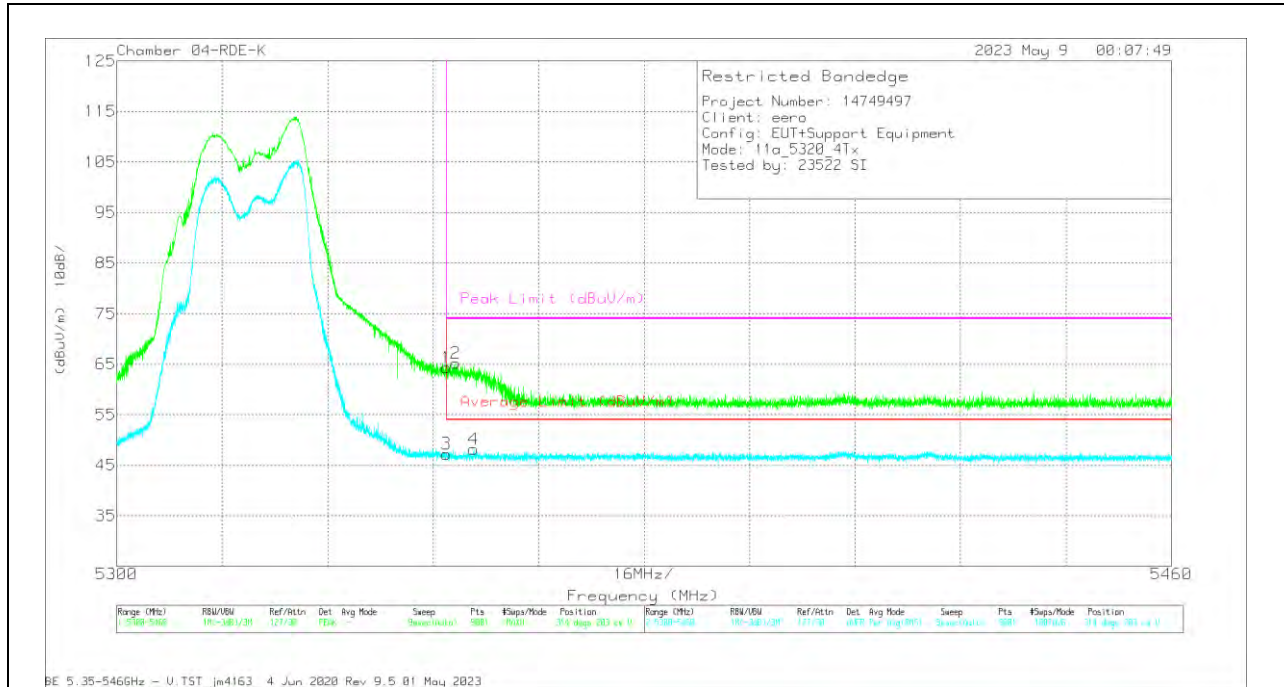
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	65.18	Pk	34.5	-30.7	68.98	-	-	74	-5.02	39	219	H
2	* 5351.361	67.55	Pk	34.5	-30.7	71.35	-	-	74	-2.65	39	219	H
3	* 5350	46.89	RMS	34.5	-30.7	50.69	54	-3.31	-	-	39	219	H
4	* 5351.378	48.39	RMS	34.5	-30.7	52.19	54	-1.81	-	-	39	219	H

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



### VERTICAL RESULT



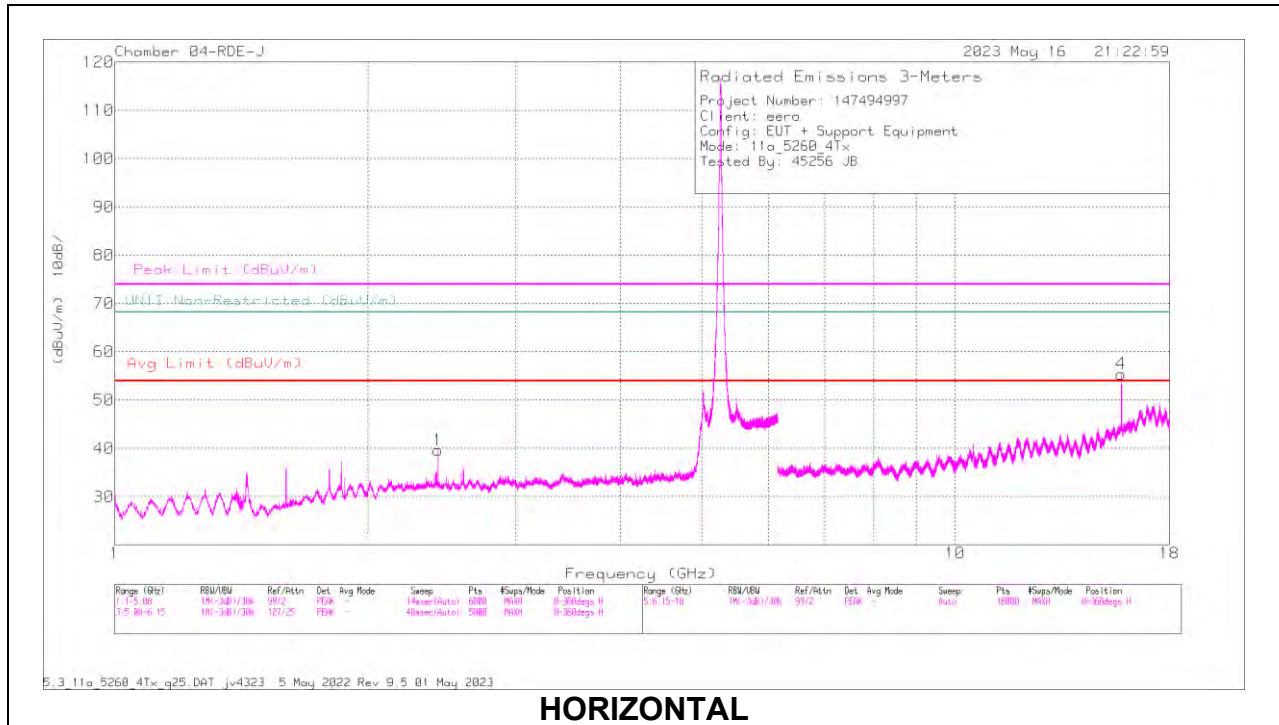
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	60.5	Pk	34.5	-30.7	64.3	-	-	74	-9.7	314	203	V
2	* 5351.467	61.42	Pk	34.5	-30.7	65.22	-	-	74	-8.78	314	203	V
3	* 5350	43.45	RMS	34.5	-30.7	47.25	54	-6.75	-	-	314	203	V
4	* 5354.134	44.38	RMS	34.5	-30.7	48.18	54	-5.82	-	-	314	203	V

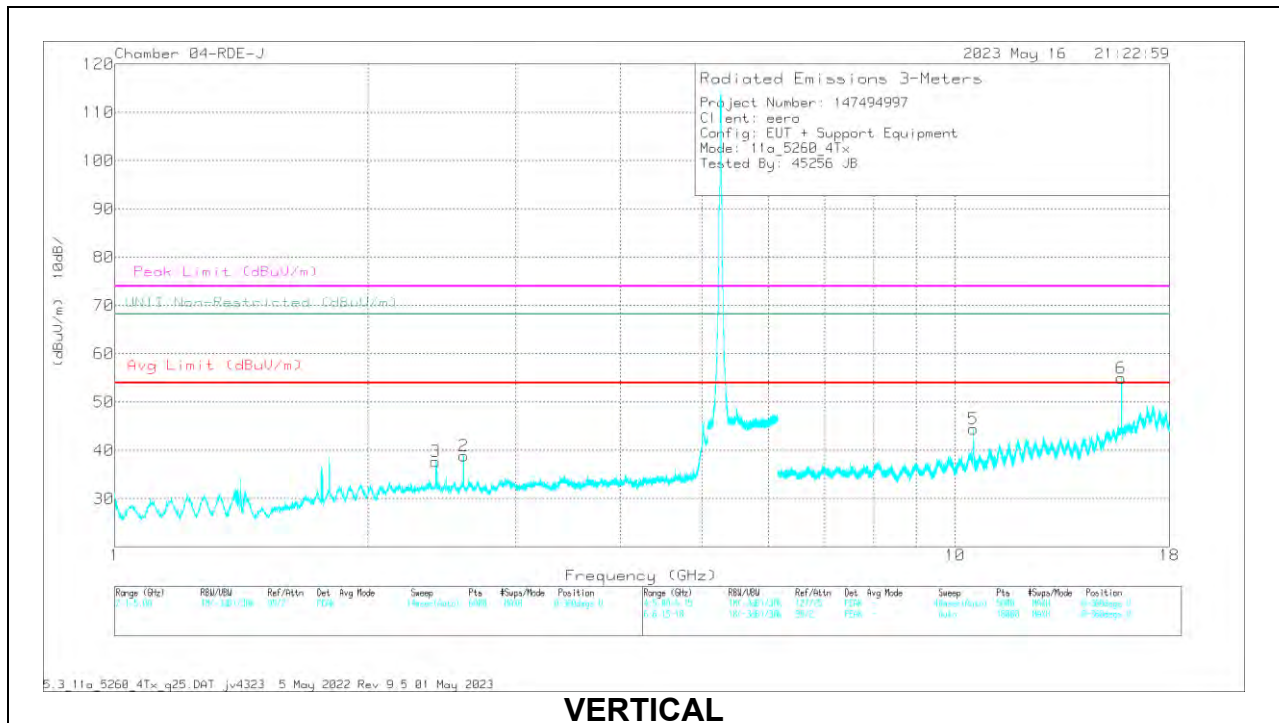
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

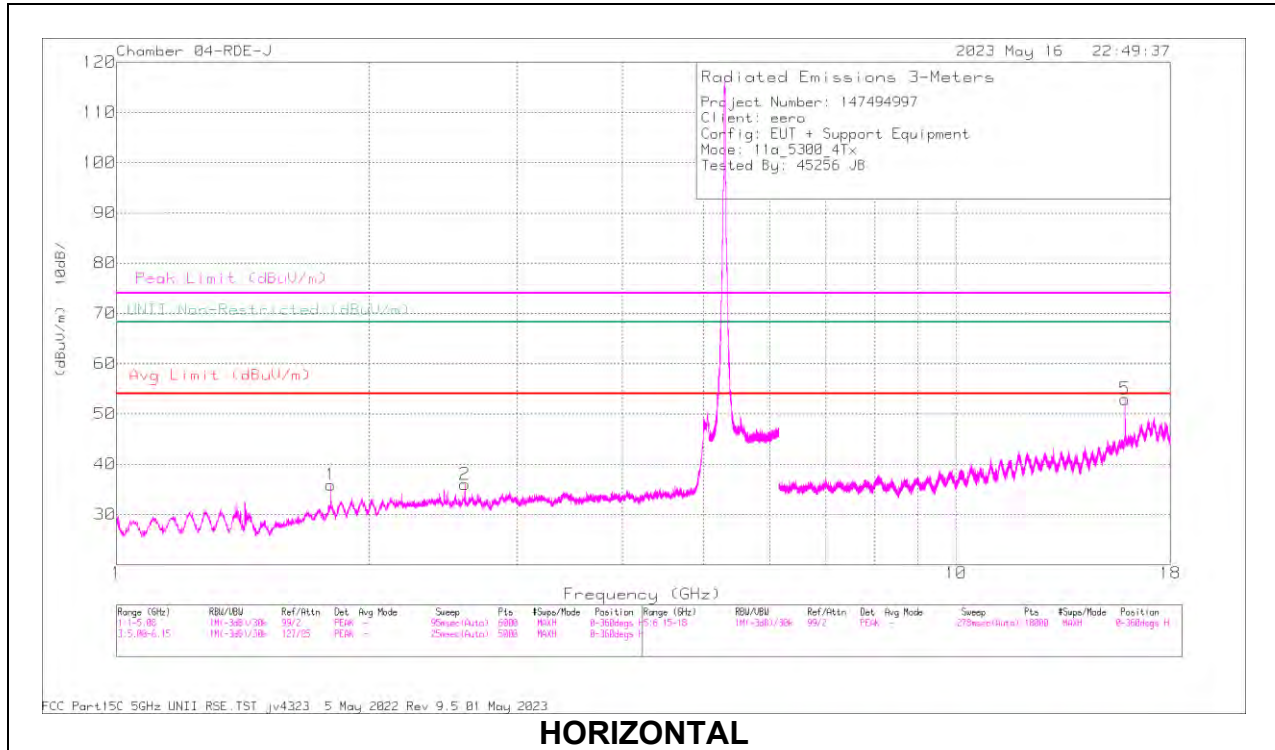


### RADIATED EMISSIONS

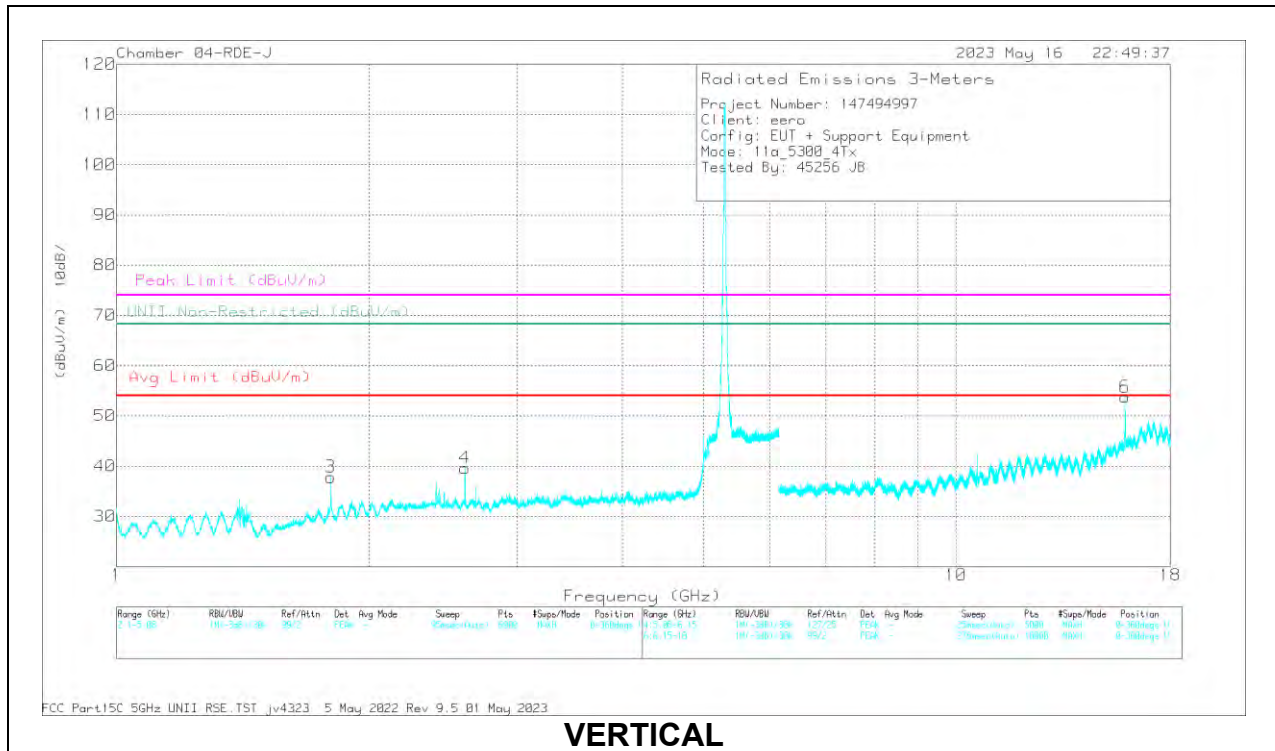
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/CbI/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.427537	56.32	PK-U	32.1	-45.2	43.22	-	-	-	-	68.2	-24.98	265	127	H
2	2.599898	59.56	PK-U	32.3	-45.5	46.36	-	-	-	-	68.2	-21.84	350	230	V
3	2.407781	59.79	PK-U	32	-45.3	46.49	-	-	-	-	68.2	-21.71	145	391	V
4	* 15.781469	56.84	PK-U	40.9	-35	62.74	-	-	74	-11.26	-	-	187	104	H
	* 15.780744	44.52	ADR	40.9	-35	50.42	54	-3.58	-	-	-	-	187	104	H
5	10.521633	52.77	PK-U	37.5	-35.7	54.57	-	-	-	-	68.2	-13.63	323	196	V
6	* 15.781408	56.3	PK-U	40.9	-35	62.2	-	-	74	-11.8	-	-	167	129	V
	* 15.780895	43.76	ADR	40.9	-35	49.66	54	-4.34	-	-	-	-	167	129	V

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

### MID CHANNEL RESULTS



**HORIZONTAL**



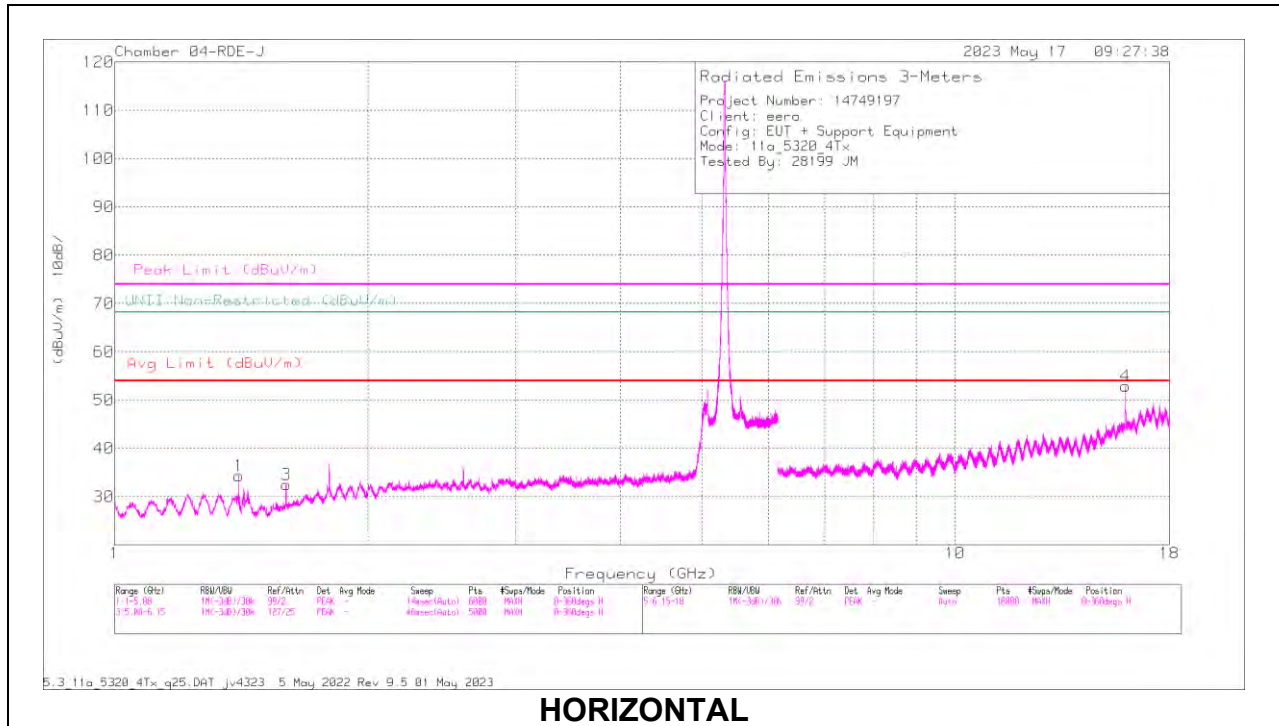
**VERTICAL**

### RADIATED EMISSIONS

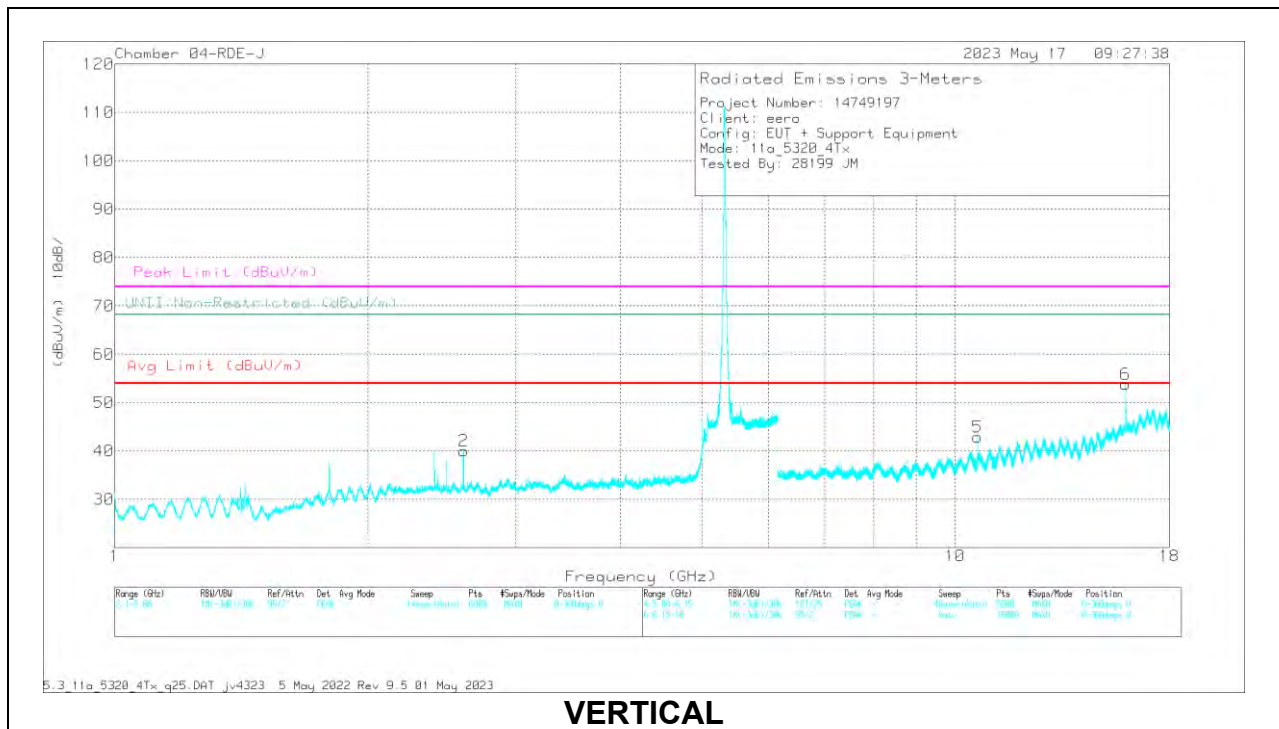
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/CbI/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.800578	56.88	PK-U	30.5	-43.9	43.48	-	-	-	-	68.2	-24.72	34	269	H
2	2.599875	58.18	PK-U	32.3	-45.5	44.98	-	-	-	-	68.2	-23.22	341	143	H
3	1.799681	58.76	PK-U	30.5	-43.9	45.36	-	-	-	-	68.2	-22.84	311	172	V
4	2.599991	60.26	PK-U	32.3	-45.5	47.06	-	-	-	-	68.2	-21.14	352	199	V
5	* 15.89232	56.1	PK-U	41.1	-33.1	64.1	-	-	74	-9.9	-	-	191	102	H
	* 15.891827	43.47	ADR	41.1	-33.1	51.47	54	-2.53	-	-	-	-	191	102	H
6	* 15.9005	54.65	PK-U	41.1	-33	62.75	-	-	74	-11.25	-	-	169	115	V
	* 15.900712	42.71	ADR	41.1	-33	50.81	54	-3.19	-	-	-	-	169	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 RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/CbI/Fitr (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	* 1.410348	59.85	PK-U	28	-41.8	46.05	-	-	74	-27.95	-	-	348	151	H
	* 1.404043	41.28	ADR	28.1	-41.8	27.58	54	-26.42	-	-	-	-	348	151	H
3	* 1.596096	59.64	PK-U	27.8	-43	44.44	-	-	74	-29.56	-	-	191	305	H
	* 1.595502	47.7	ADR	27.8	-43	32.5	54	-21.5	-	-	-	-	191	305	H
2	2.59685	56.25	PK-U	32.3	-45.4	43.15	-	-	-	-	68.2	-25.05	108	261	V
4	* 15.958527	53.73	PK-U	41.2	-33.2	61.73	-	-	74	-12.27	-	-	130	105	H
	* 15.959221	42.14	ADR	41.2	-33.2	50.14	54	-3.86	-	-	-	-	130	105	H
5	* 10.642412	49.98	PK-U	37.6	-36.3	51.28	-	-	74	-22.72	-	-	344	185	V
	* 10.641694	38.77	ADR	37.5	-36.3	39.97	54	-14.03	-	-	-	-	344	185	V
6	* 15.961366	55.65	PK-U	41.2	-33.3	63.55	-	-	74	-10.45	-	-	151	165	V
	* 15.961371	43.6	ADR	41.2	-33.3	51.5	54	-2.5	-	-	-	-	151	165	V

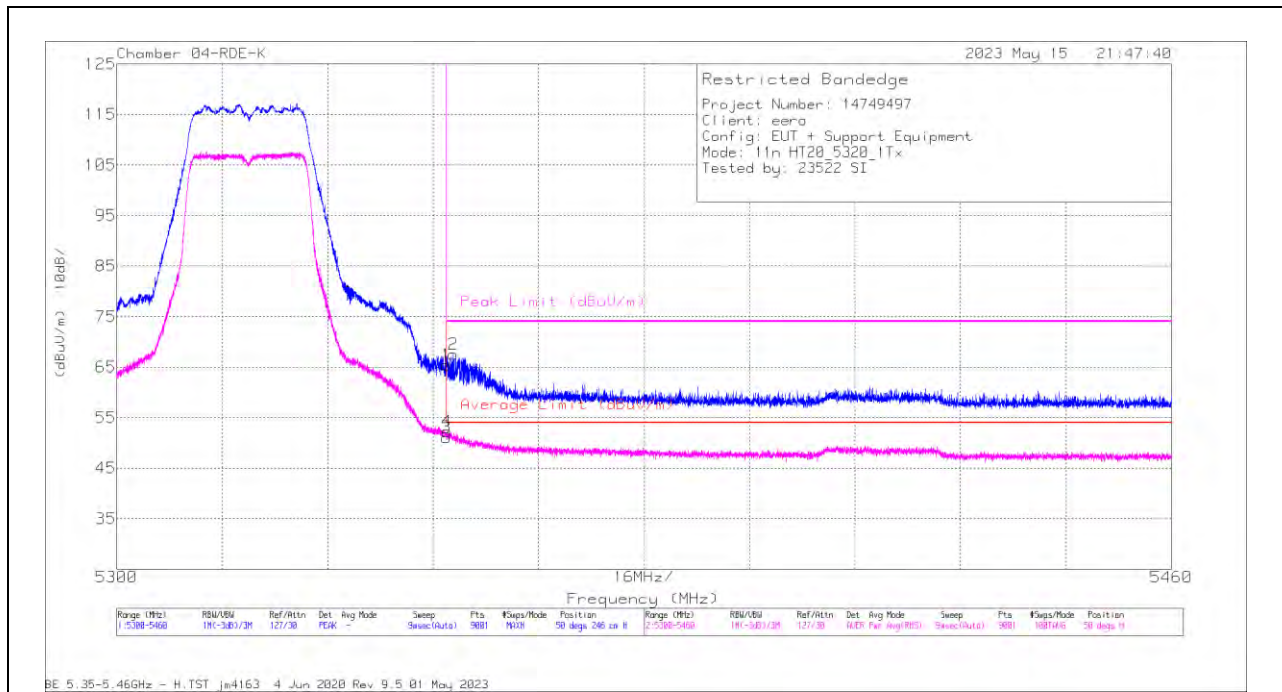
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### 10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	61.64	Pk	34.5	-30.7	65.44	-	-	74	-8.56	50	246	H
2	* 5351.058	63.75	Pk	34.5	-30.7	67.55	-	-	74	-6.45	50	246	H
3	* 5350	47.3	RMS	34.5	-30.7	51.1	54	-2.9	-	-	50	246	H
4	* 5350.116	48.43	RMS	34.5	-30.7	52.23	54	-1.77	-	-	50	246	H

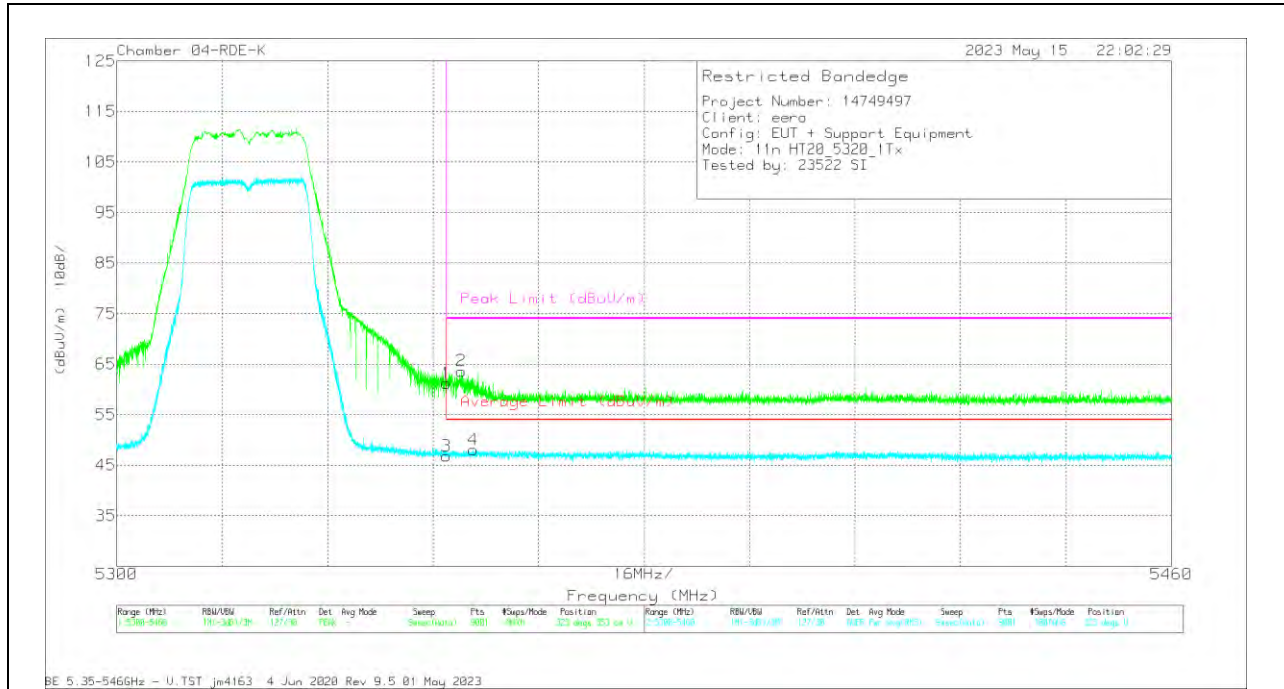
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



### VERTICAL RESULT



### Trace Markers

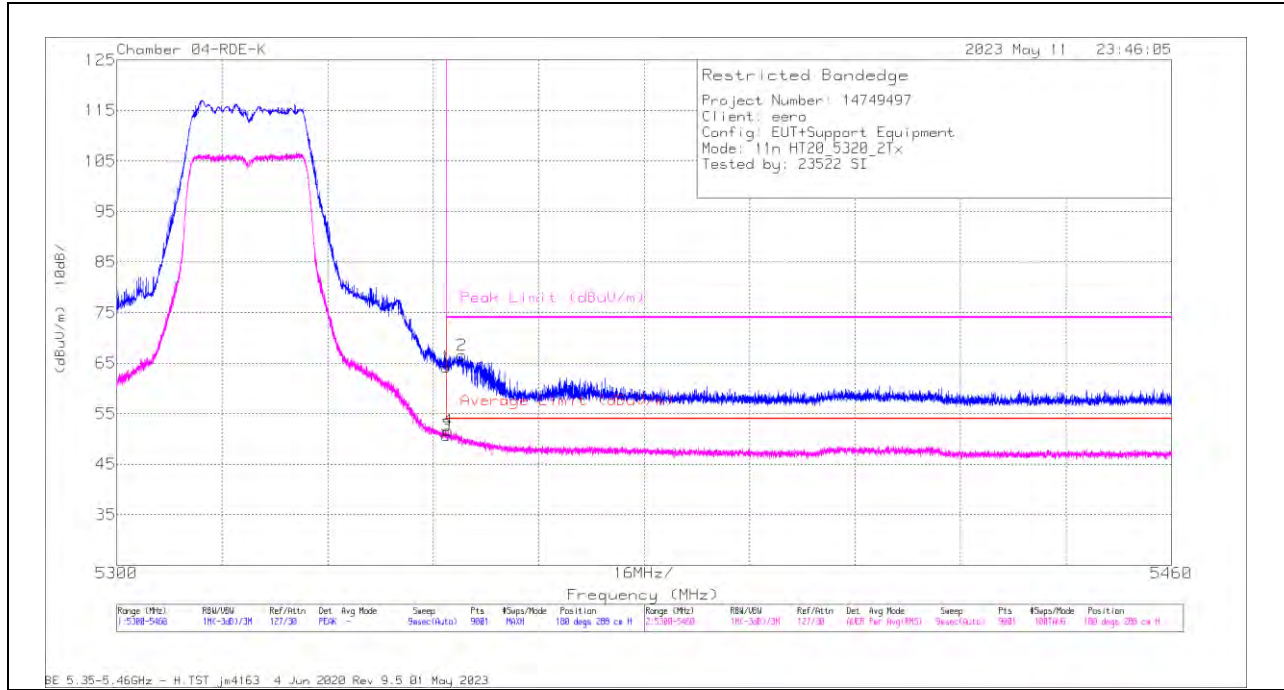
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	57.43	Pk	34.5	-30.7	61.23	-	-	74	-12.77	323	353	V
2	* 5352.321	59.84	Pk	34.5	-30.7	63.64	-	-	74	-10.36	323	353	V
3	* 5350	43.05	RMS	34.5	-30.7	46.85	54	-7.15	-	-	323	353	V
4	* 5354.081	44.28	RMS	34.5	-30.7	48.08	54	-5.92	-	-	323	353	V

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

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	60.37	Pk	34.5	-30.7	64.17	-	-	74	-9.83	180	288	H
2	* 5352.41	62.76	Pk	34.5	-30.7	66.56	-	-	74	-7.44	180	288	H
3	* 5350	46.87	RMS	34.5	-30.7	50.67	54	-3.33	-	-	180	288	H
4	* 5350.258	47.86	RMS	34.5	-30.7	51.66	54	-2.34	-	-	180	288	H

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

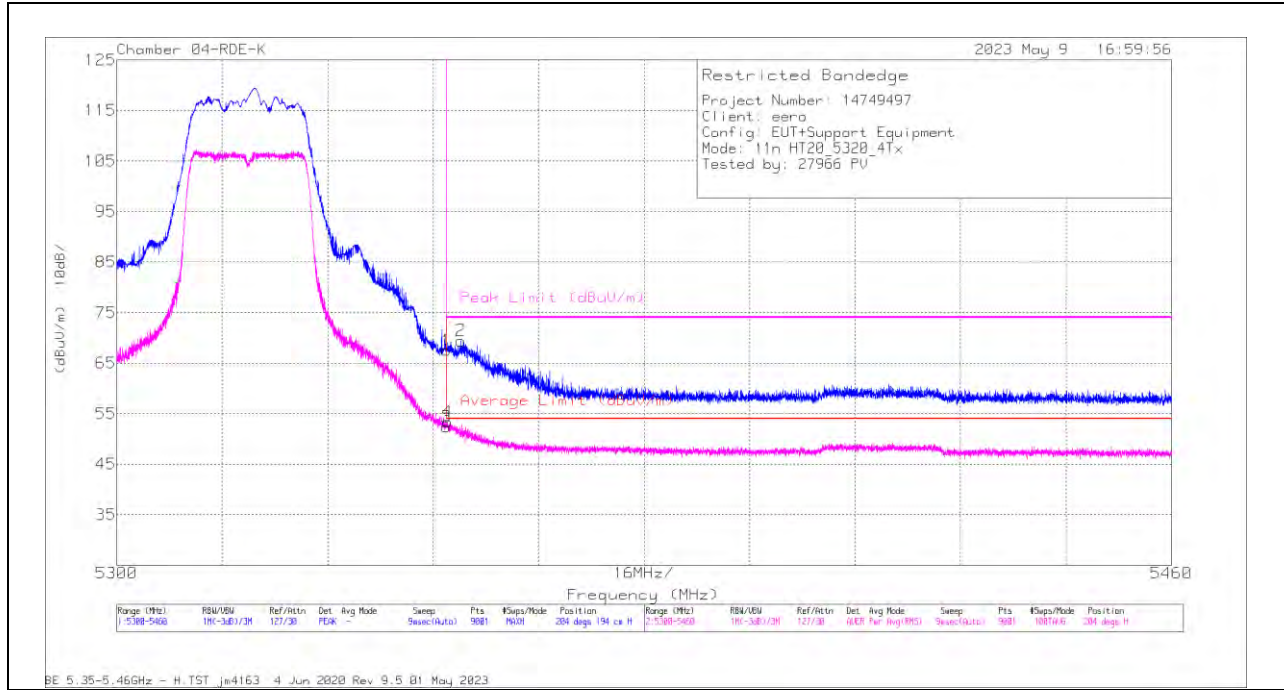




**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

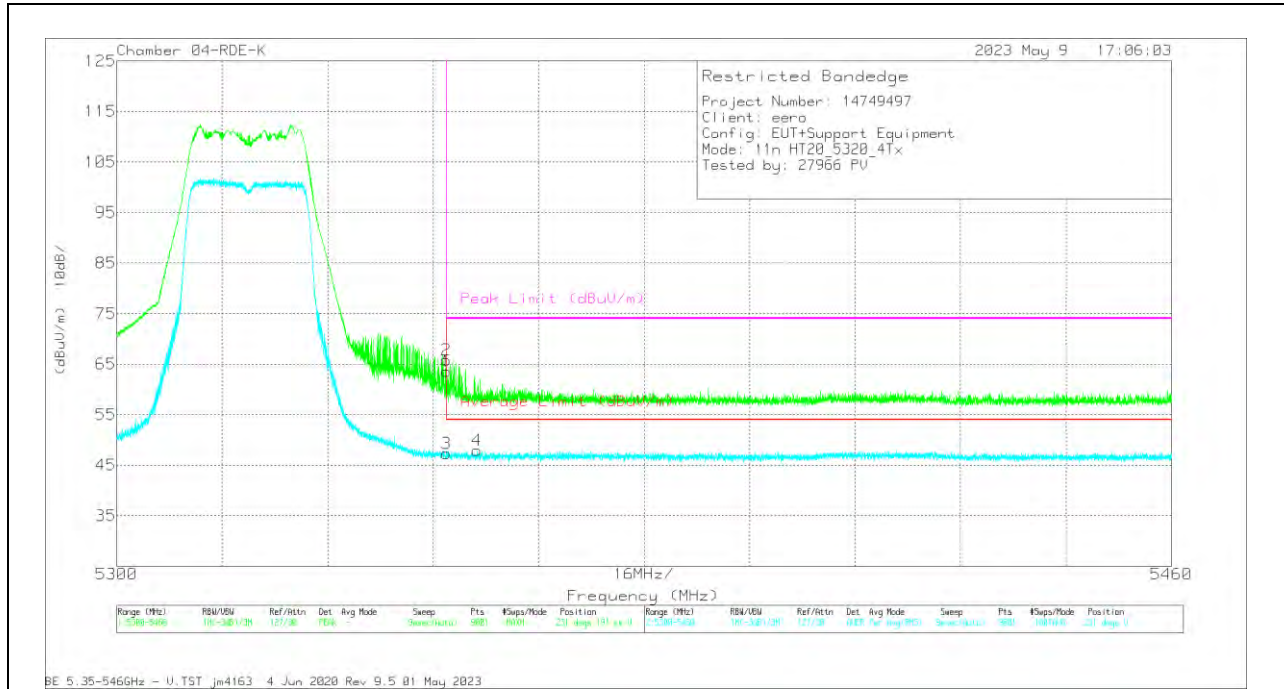


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5350	63.78	Pk	34.5	-30.7	67.58	-	-	74	-6.42	204	194	H
2	*5352.196	65.67	Pk	34.5	-30.7	69.47	-	-	74	-4.53	204	194	H
3	*5350	48.57	RMS	34.5	-30.7	52.37	54	-1.63	-	-	204	194	H
4	*5350.152	49.54	RMS	34.5	-30.7	53.34	54	-0.66	-	-	204	194	H

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

### VERTICAL RESULT



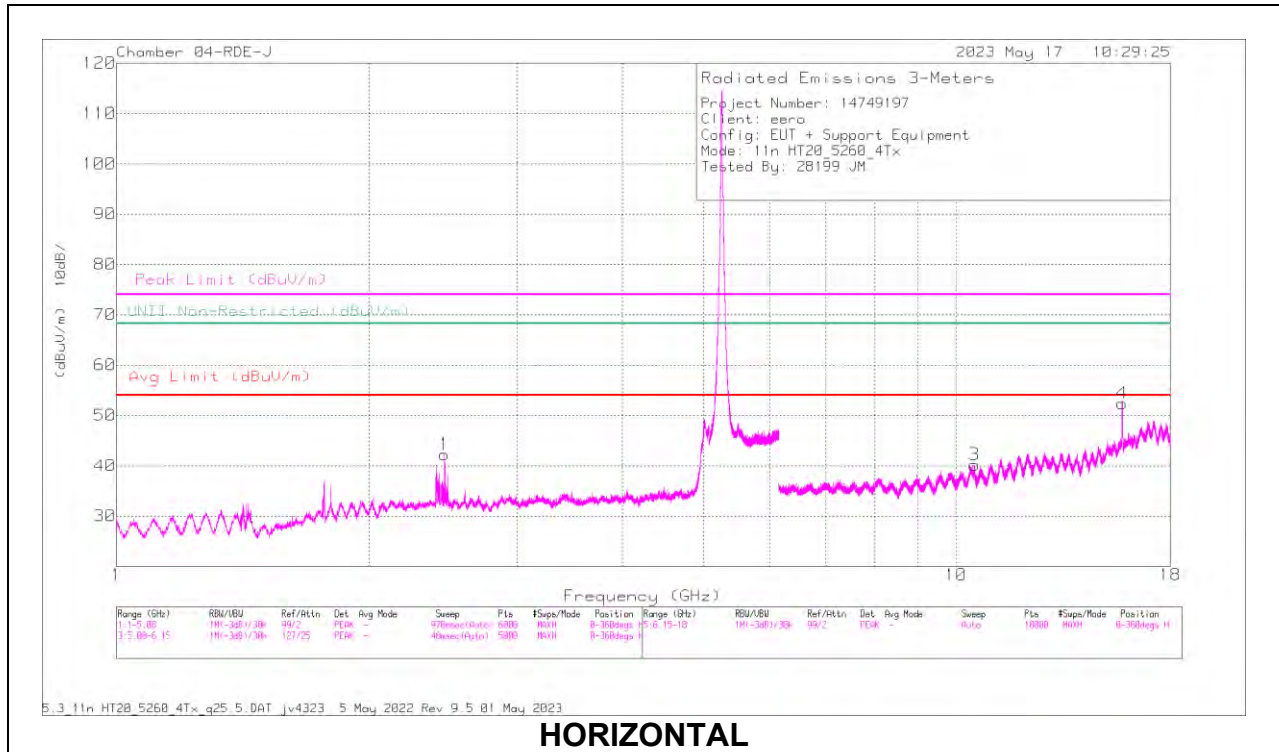
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*5350	59.75	Pk	34.5	-30.7	63.55	-	-	74	-10.45	231	191	V
2	*5350.01	62.01	Pk	34.5	-30.7	65.81	-	-	74	-8.19	231	191	V
3	*5350	43.47	RMS	34.5	-30.7	47.27	54	-6.73	-	-	231	191	V
4	*5354.632	44.08	RMS	34.5	-30.7	47.88	54	-6.12	-	-	231	191	V

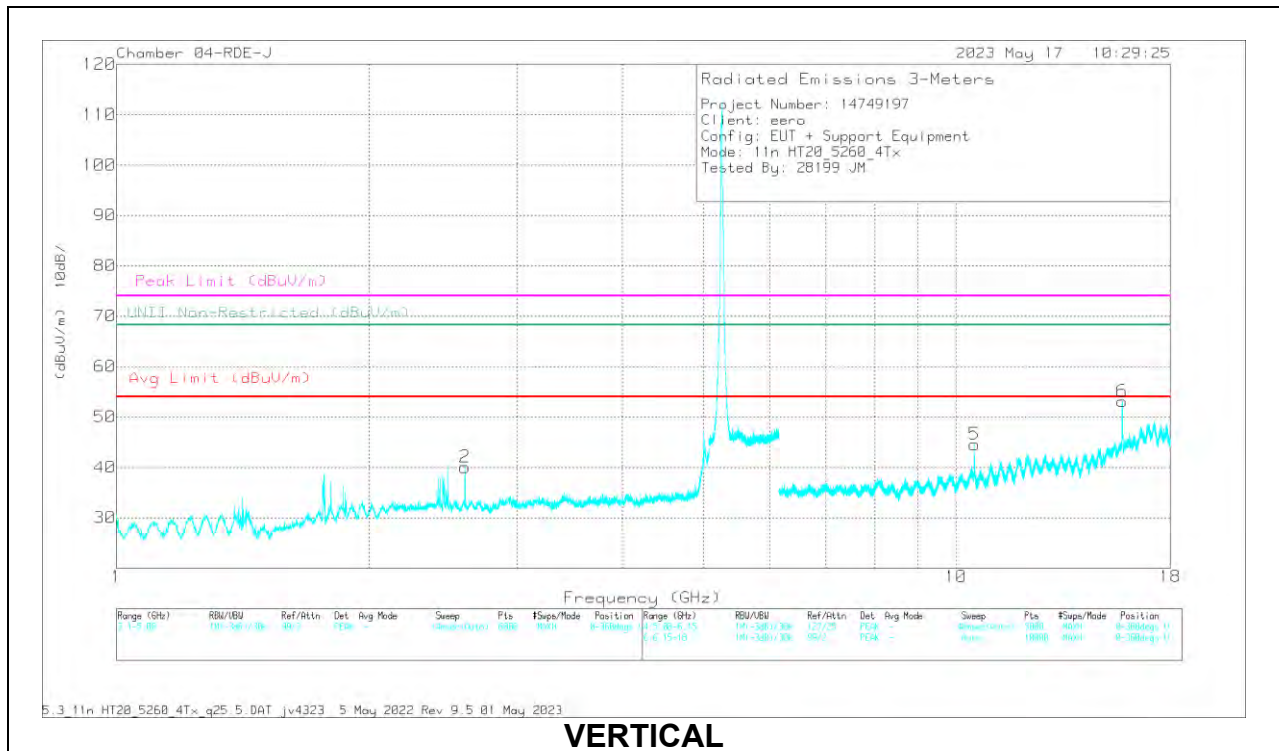
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Filtr (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	2.462314	58.15	PK-U	32.2	-45	45.35	-	-	-	-	68.2	-22.85	343	101	H
2	2.600113	60.93	PK-U	32.3	-45.5	47.73	-	-	-	-	68.2	-20.47	56	214	V
3	10.51073	48.24	PK-U	37.4	-35.9	49.74	-	-	-	-	68.2	-18.46	1	176	H
4	* 15.781156	45.73	ADR	40.9	-35	51.63	54	-2.37	-	-	-	-	132	108	H
	* 15.781203	59.29	PK-U	40.9	-35	65.19	-	-	74	-8.81	-	-	168	108	V
5	* 15.782447	46.66	ADR	40.9	-35	52.56	54	-1.44	-	-	-	-	168	108	V
	* 15.781509	57.94	PK-U	40.9	-35	63.84	-	-	74	-10.16	-	-	168	108	V
6	10.51859	51.27	PK-U	37.5	-35.7	53.07	-	-	-	-	68.2	-15.13	318	147	V

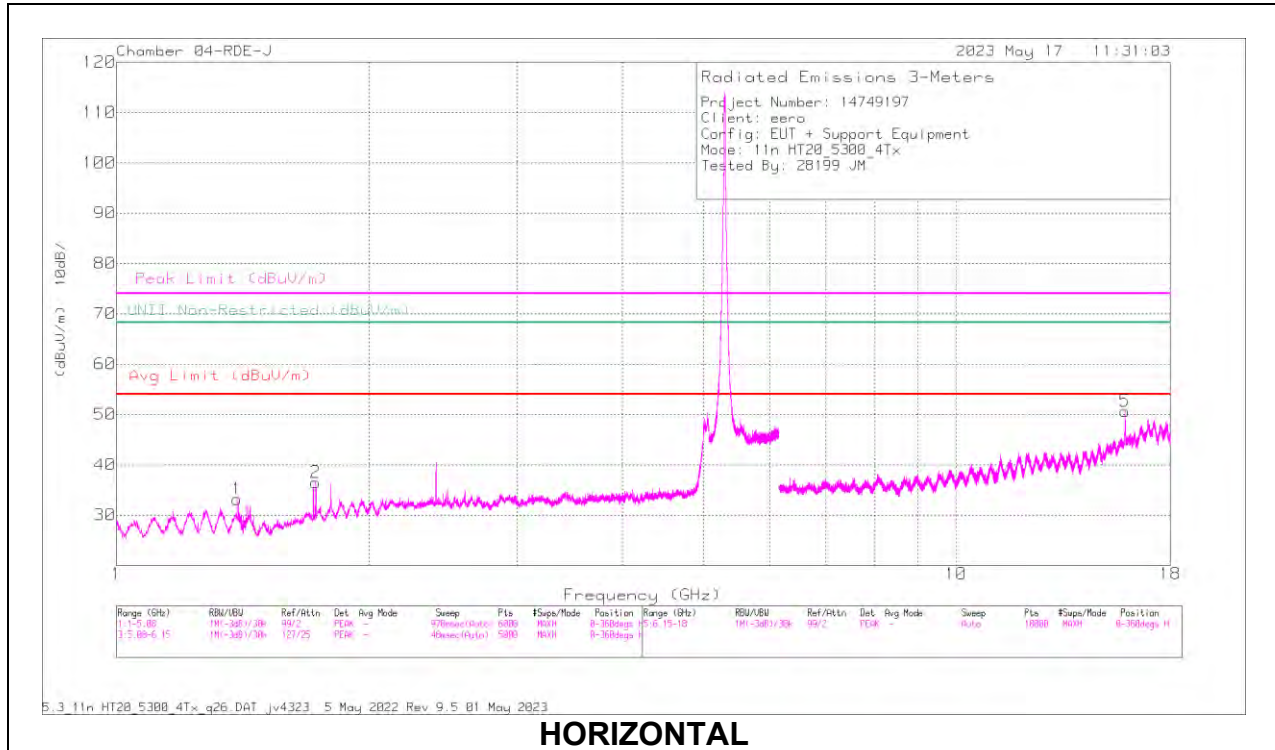
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

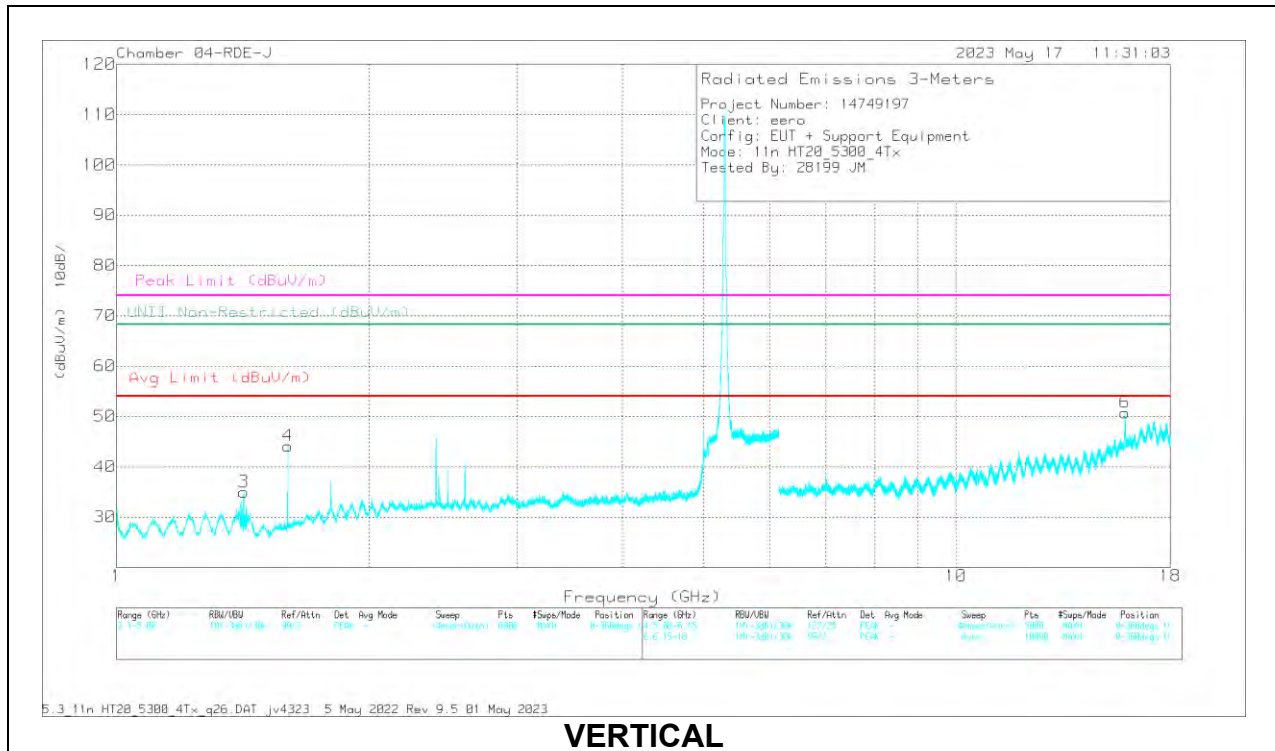
ADR - U-NII AD primary method, RMS average



### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

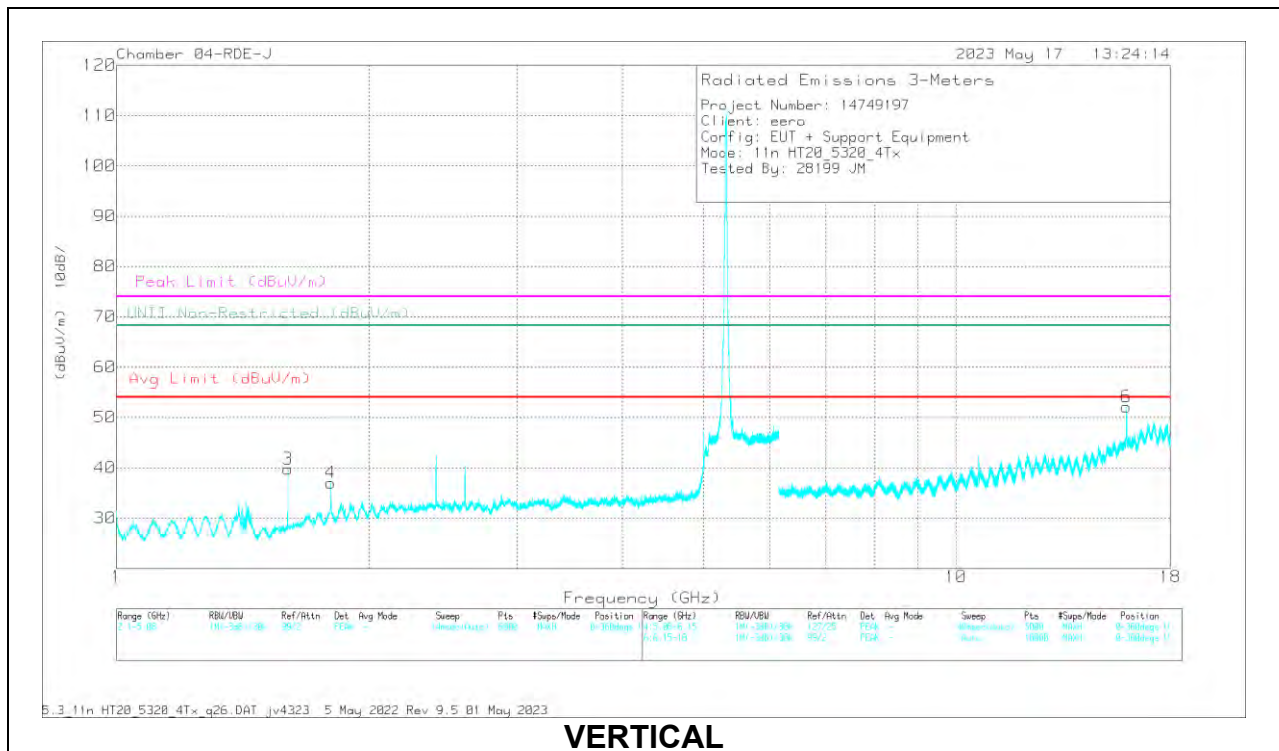
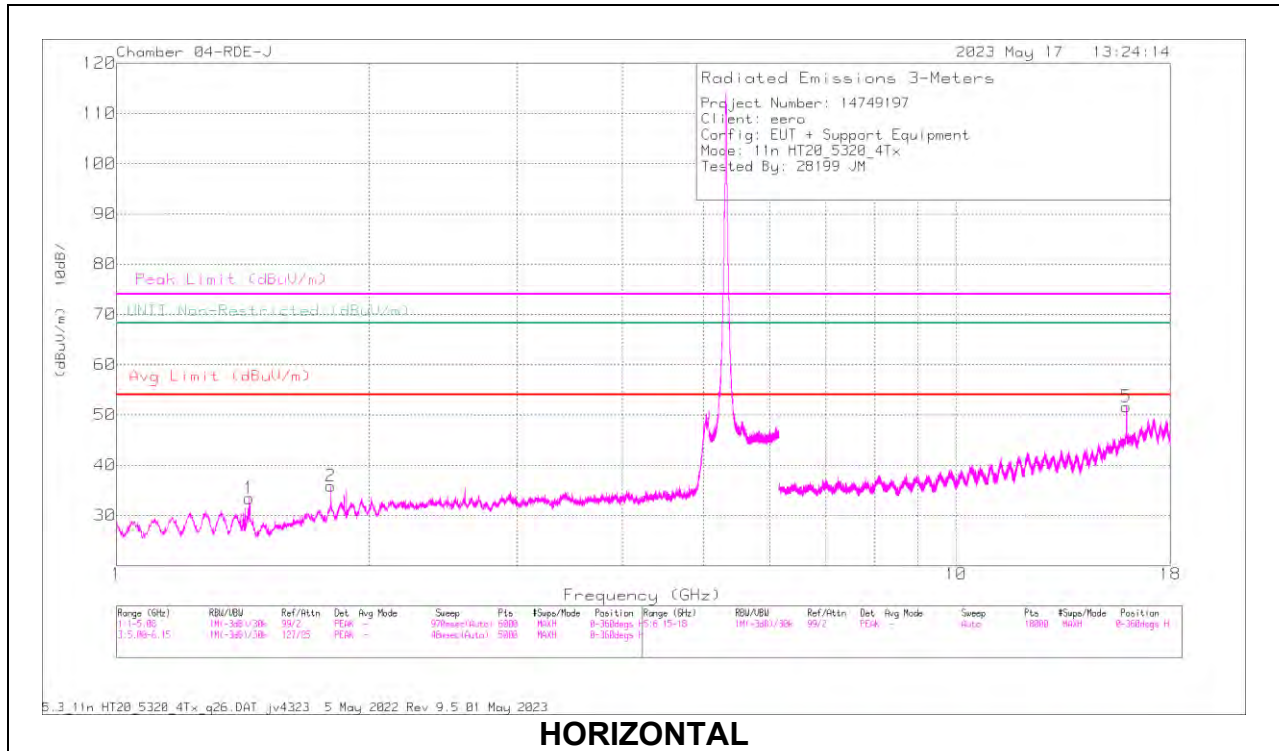
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) -3mH	Amp/Cb/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.398122	63.51	PK-U	28.1	-41.9	49.71	-	-	74	-24.29	-	-	348	195	H
	* 1.392064	42.43	ADR	28.2	-41.8	28.83	54	-25.17	-	-	-	-	348	195	H
2	1.726331	57.63	PK-U	29.8	-43.4	44.03	-	-	-	-	68.2	-24.17	253	134	H
3	* 1.436211	63.87	PK-U	27.8	-41.9	49.77	-	-	74	-24.23	-	-	0	218	V
	* 1.440074	44.61	ADR	27.8	-41.8	30.61	54	-23.39	-	-	-	-	0	218	V
4	* 1.600044	63.42	PK-U	27.8	-43.1	48.12	-	-	74	-25.88	-	-	14	251	V
	* 1.600231	44.03	ADR	27.8	-43.1	28.73	54	-25.27	-	-	-	-	14	251	V
5	* 15.902765	54.7	PK-U	41.1	-33	62.8	-	-	74	-11.2	-	-	184	101	H
	* 15.894399	41.85	ADR	41.1	-33.2	49.75	54	-4.25	-	-	-	-	184	101	H
6	* 15.901548	57.69	PK-U	41.1	-33	65.79	-	-	74	-8.21	-	-	150	172	V
	* 15.902632	43.47	ADR	41.1	-33	51.57	54	-2.43	-	-	-	-	150	172	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS





**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) -3mH	Amp/Cb/Fitr (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	* 1.442292	64.48	PK-U	27.8	-42	50.28	-	-	74	-23.72	-	-	331	141	H
	* 1.439915	43.02	ADR	27.8	-41.7	29.12	54	-24.88	-	-	-	-	331	141	H
2	1.799557	60.99	PK-U	30.5	-43.9	47.59	-	-	-	-	68.2	-20.61	21	267	H
3	* 1.800062	60.4	PK-U	27.8	-43.1	45.1	-	-	74	-28.9	-	-	63	213	V
	* 1.800312	43.18	ADR	27.8	-43.1	27.88	54	-26.12	-	-	-	-	63	213	V
4	1.800067	61.54	PK-U	30.5	-43.9	48.14	-	-	-	-	68.2	-20.06	20	108	V
5	* 15.961263	54.41	PK-U	41.2	-33.3	62.31	-	-	74	-11.69	-	-	185	114	H
	* 15.959619	42.22	ADR	41.2	-33.2	50.22	54	-3.78	-	-	-	-	185	114	H
6	* 15.961604	57.48	PK-U	41.2	-33.3	65.38	-	-	74	-8.62	-	-	154	187	V
	* 15.961821	43.53	ADR	41.2	-33.4	51.33	54	-2.67	-	-	-	-	154	187	V

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

PK-U - U-NII: Maximum Peak

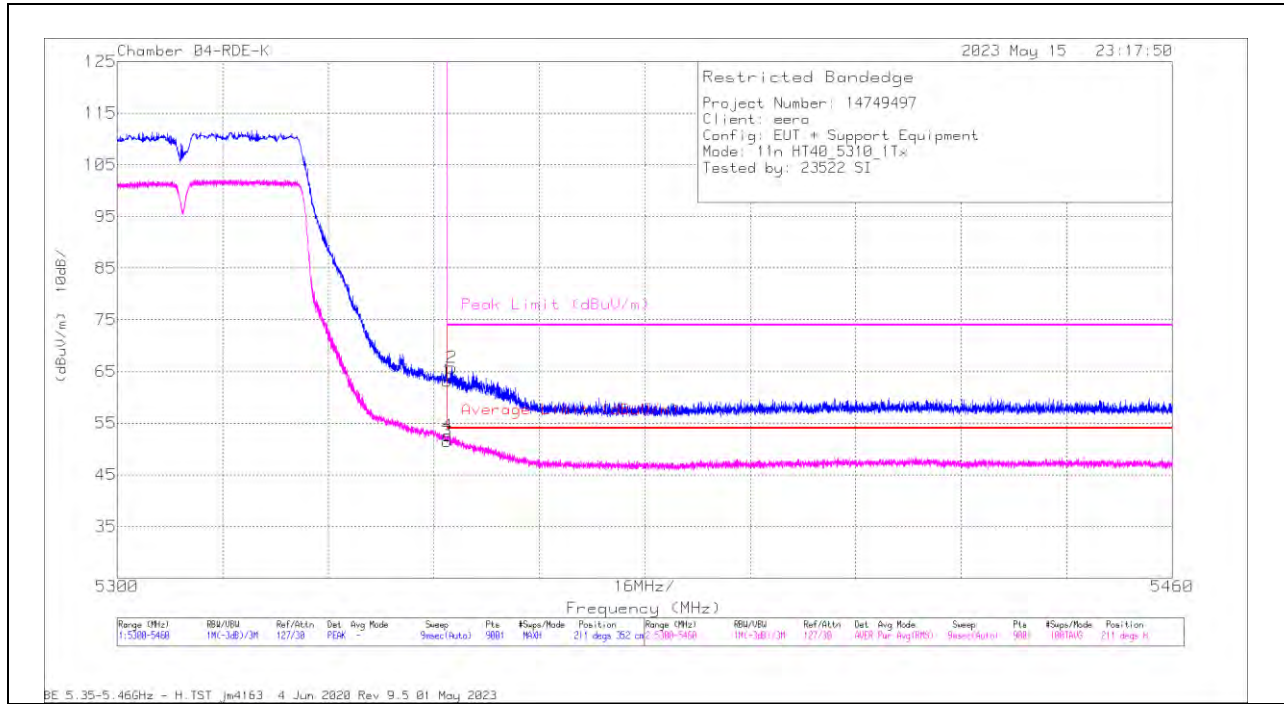
ADR - U-NII AD primary method, RMS average

### 10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL RESULT

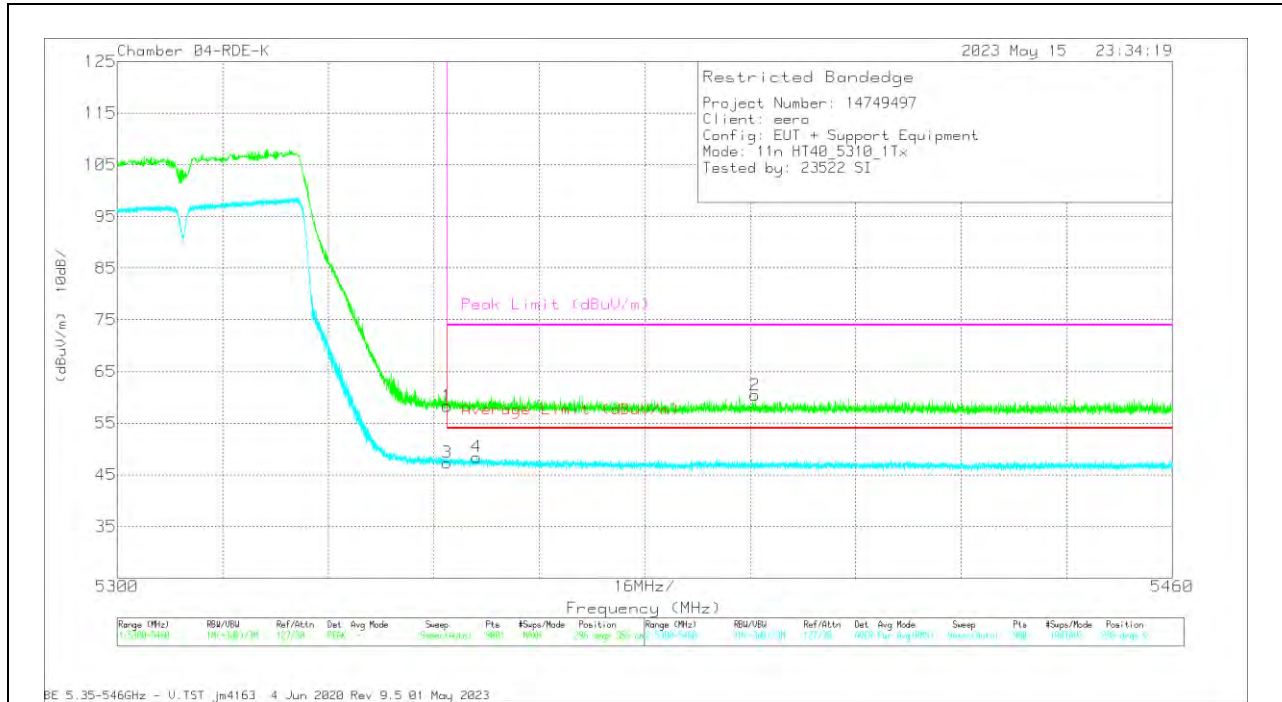


#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	59.36	Pk	34.5	-30.7	63.16	-	-	74	-10.84	211	352	H
2	* 5350.738	61.94	Pk	34.5	-30.7	65.74	-	-	74	-8.26	211	352	H
3	* 5350	47.65	RMS	34.5	-30.7	51.45	54	-2.55	-	-	211	352	H
4	* 5350.134	48.78	RMS	34.5	-30.7	52.58	54	-1.42	-	-	211	352	H

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

### VERTICAL RESULT



### Trace Markers

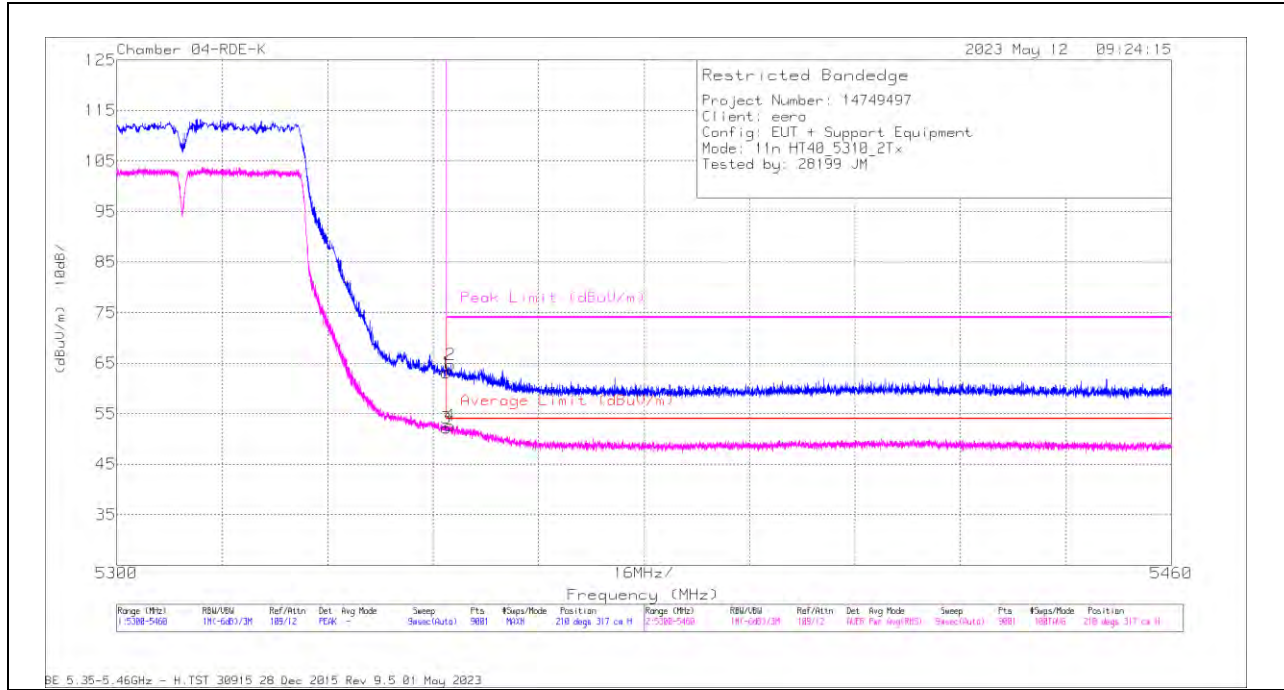
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	54.52	PK	34.5	-30.7	58.32	-	-	74	-15.68	296	356	V
2	* 5396.73	56.5	PK	34.6	-30.7	60.4	-	-	74	-13.6	296	356	V
3	* 5350	43.53	RMS	34.5	-30.7	47.33	54	-6.67	-	-	296	356	V
4	* 5354.525	44.63	RMS	34.5	-30.7	48.43	54	-5.57	-	-	296	356	V

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

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

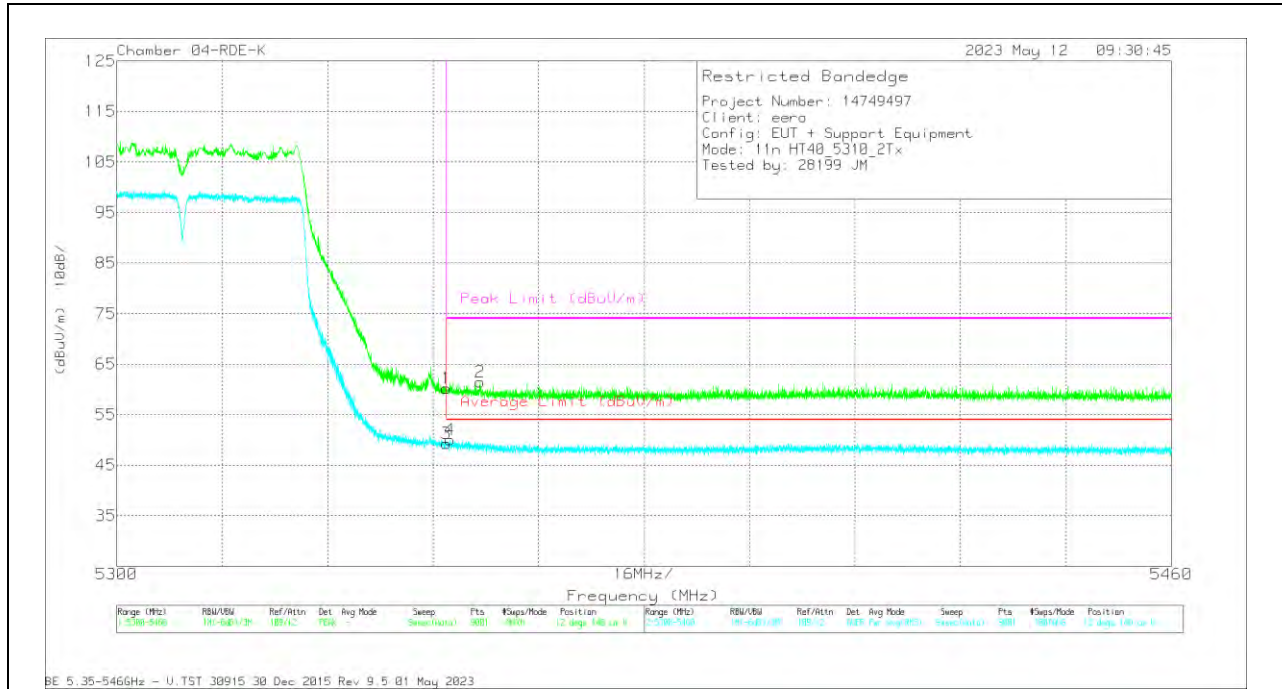


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	36.05	Pk	34.5	-7.5	63.05	-	-	74	-10.95	210	317	H
2	* 5350.65	37.74	Pk	34.5	-7.5	64.74	-	-	74	-9.26	210	317	H
3	* 5350	25.17	RMS	34.5	-7.5	52.17	54	-1.83	-	-	210	317	H
4	* 5350.561	25.63	RMS	34.5	-7.5	52.63	54	-1.37	-	-	210	317	H

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

### VERTICAL RESULT



### Trace Markers

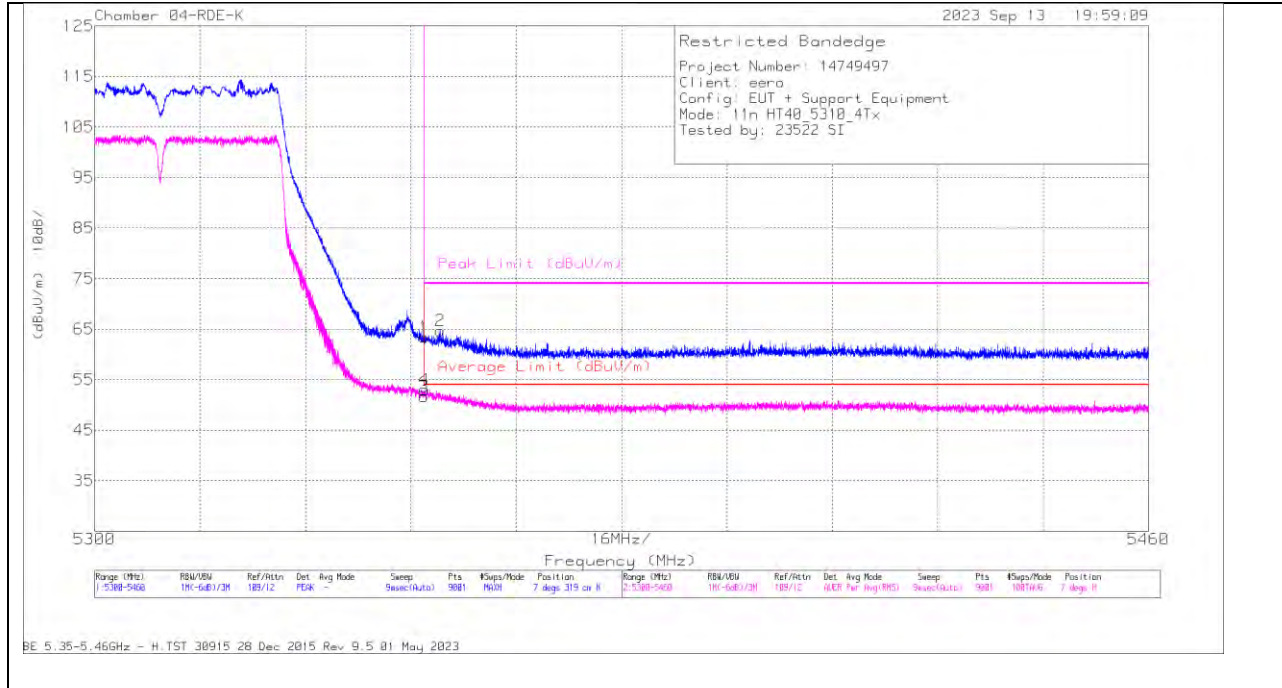
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	33.26	Pk	34.5	-7.5	60.26	-	-	74	-13.74	12	140	V
2	* 5355.094	34.47	Pk	34.5	-7.5	61.47	-	-	74	-12.53	12	140	V
3	* 5350	22.34	RMS	34.5	-7.5	49.34	54	-4.66	-	-	12	140	V
4	* 5350.561	23.01	RMS	34.5	-7.5	50.01	54	-3.99	-	-	12	140	V

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

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



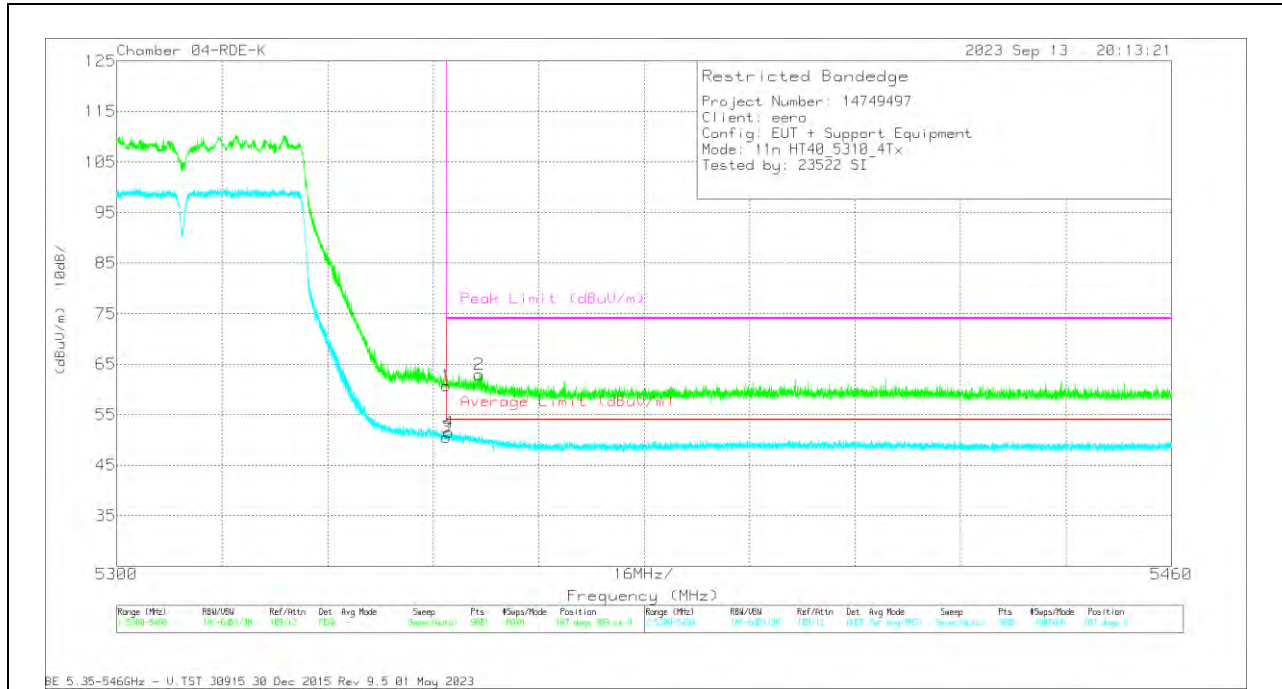
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	35.73	PK	34.5	-6.8	63.43	-	-	74	-10.57	7	319	H
2	* 5352.498	36.95	PK	34.5	-6.8	64.65	-	-	74	-9.35	7	319	H
3	* 5350	23.95	RMS	34.5	-6.8	51.65	54	-2.35	-	-	7	319	H
4	* 5350.045	25.36	RMS	34.5	-6.8	53.06	54	-0.94	-	-	7	319	H

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



### VERTICAL RESULT



### Trace Markers

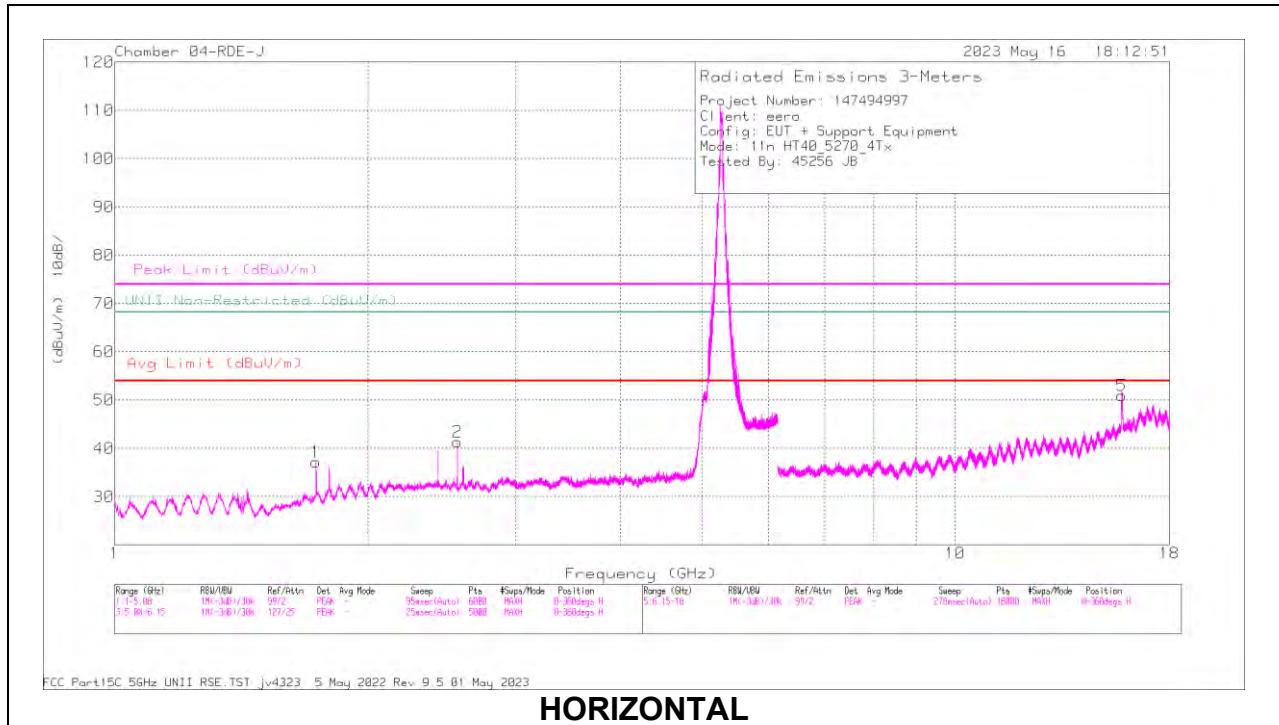
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	33.03	PK	34.5	-6.8	60.73	-	-	74	-13.27	107	309	V
2	* 5354.987	35.3	PK	34.5	-6.9	62.9	-	-	74	-11.1	107	309	V
3	* 5350	22.84	RMS	34.5	-6.8	50.54	54	-3.46	-	-	107	309	V
4	* 5350.383	23.86	RMS	34.5	-6.8	51.56	54	-2.44	-	-	107	309	V

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

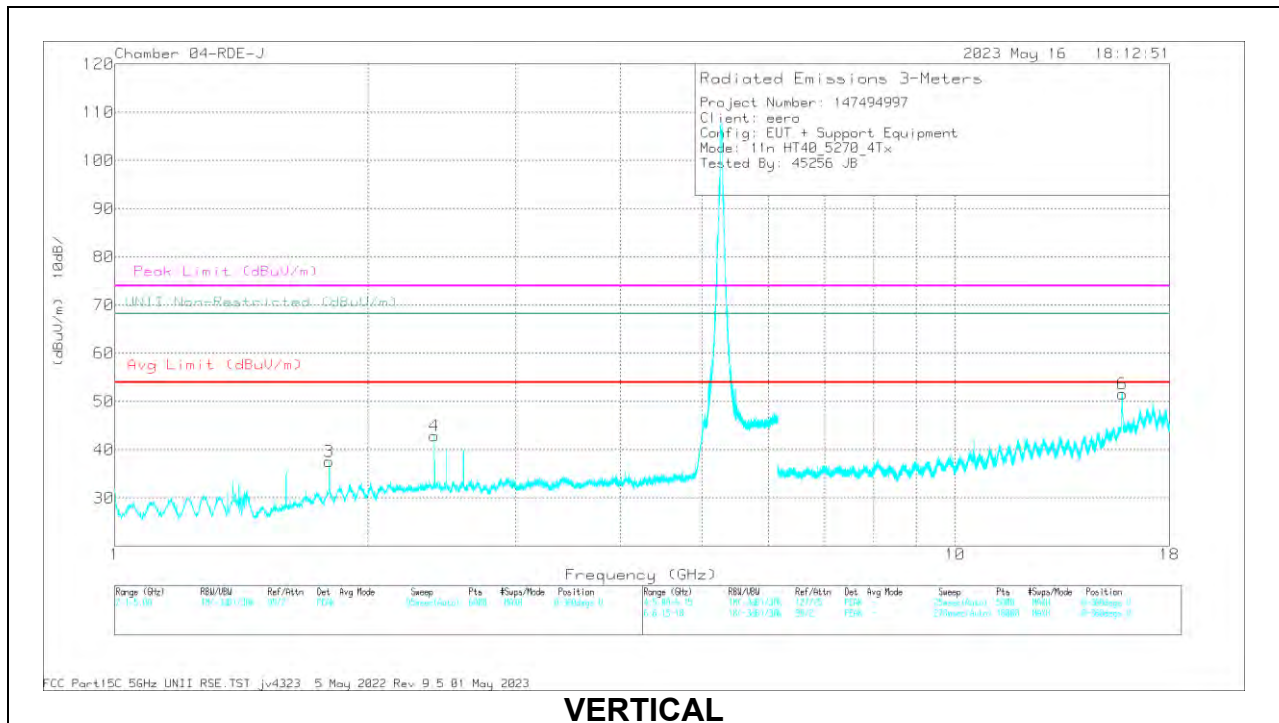


# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

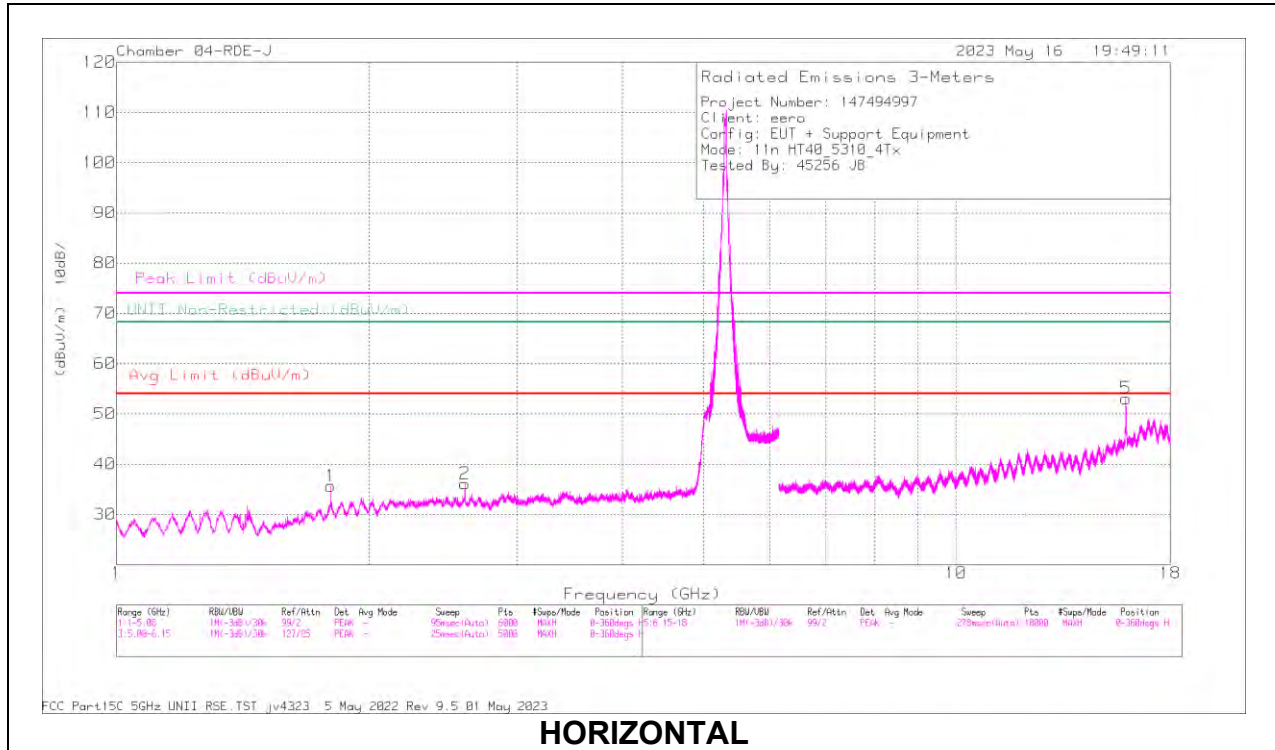
Marker	Frequency (GHz)	Meter Reading (dBuV)	Dot	222741 ACF(dB) -3mH	Amp/Cbl/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.736808	57.94	PK-U	29.9	-43.4	44.44	-	-	-	-	68.2	-23.76	160	120	H
2	2.559584	55.26	PK-U	32.3	-45.1	42.46	-	-	-	-	68.2	-25.74	352	130	H
3	1.799975	58.16	PK-U	30.5	-43.9	44.76	-	-	-	-	68.2	-23.44	316	389	V
4	2.402385	58.21	PK-U	32	-45.3	44.91	-	-	-	-	68.2	-23.29	187	385	V
5	* 15.803403	56.01	PK-U	41	-34.5	62.51	-	-	74	-11.49	-	-	189	113	H
	* 15.803234	44.19	ADR	41	-34.5	50.69	54	-3.31	-	-	-	-	189	113	H
6	* 15.814762	56.49	PK-U	41	-34.5	62.99	-	-	74	-11.01	-	-	201	228	V
	* 15.815315	45.52	ADR	41	-34.5	52.02	54	-1.98	-	-	-	-	201	228	V

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

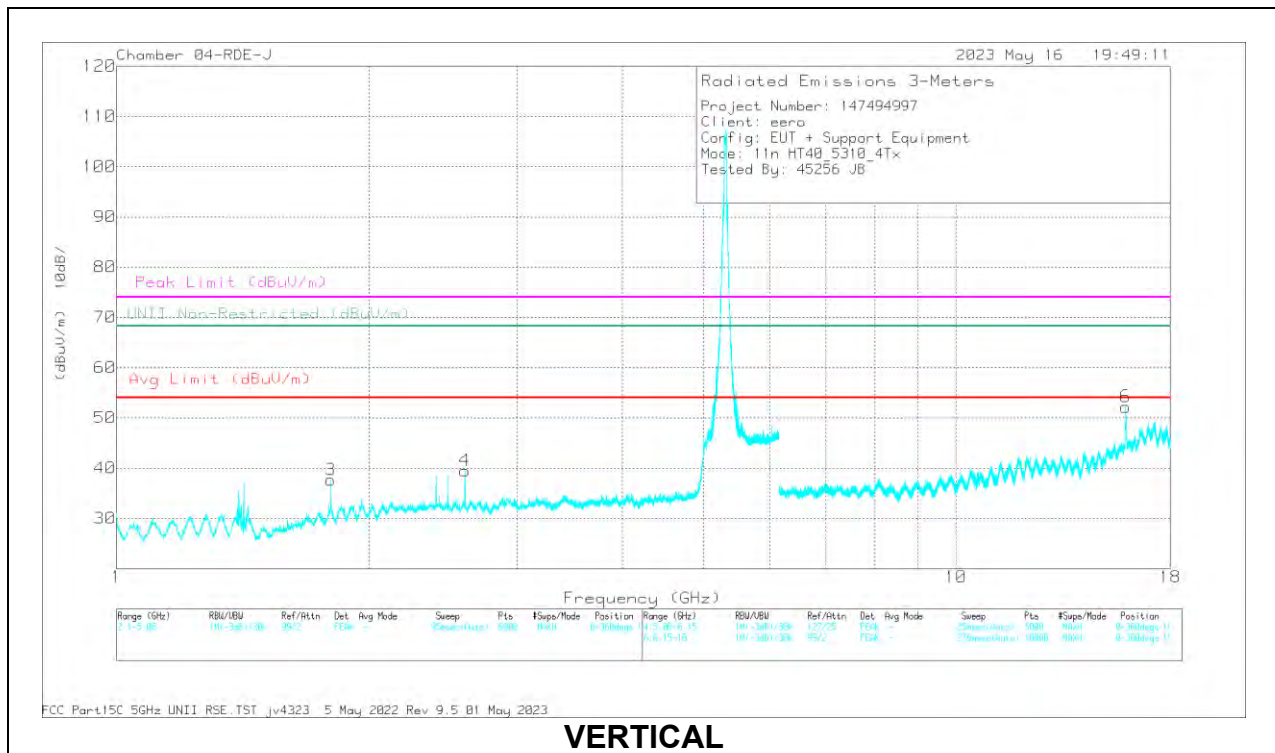
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Fitr (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	1.800301	58.52	PK-U	30.5	-43.9	45.12	-	-	-	-	68.2	-23.08	332	224	H
2	2.599623	57.8	PK-U	32.3	-45.5	44.6	-	-	-	-	68.2	-23.6	10	382	H
3	1.800367	57.57	PK-U	30.5	-43.9	44.17	-	-	-	-	68.2	-24.03	320	193	V
4	2.600299	59.64	PK-U	32.3	-45.5	46.44	-	-	-	-	68.2	-21.76	347	176	V
5	* 15.9342	55.08	PK-U	41.2	-33	63.28	-	-	74	-10.72	-	-	187	104	H
	* 15.934937	43.09	ADR	41.2	-33	51.29	54	-2.71	-	-	-	-	187	104	H
6	* 15.934663	56.2	PK-U	41.2	-33	64.4	-	-	74	-9.6	-	-	202	219	V
	* 15.9348	44.64	ADR	41.2	-33	52.84	54	-1.16	-	-	-	-	202	219	V

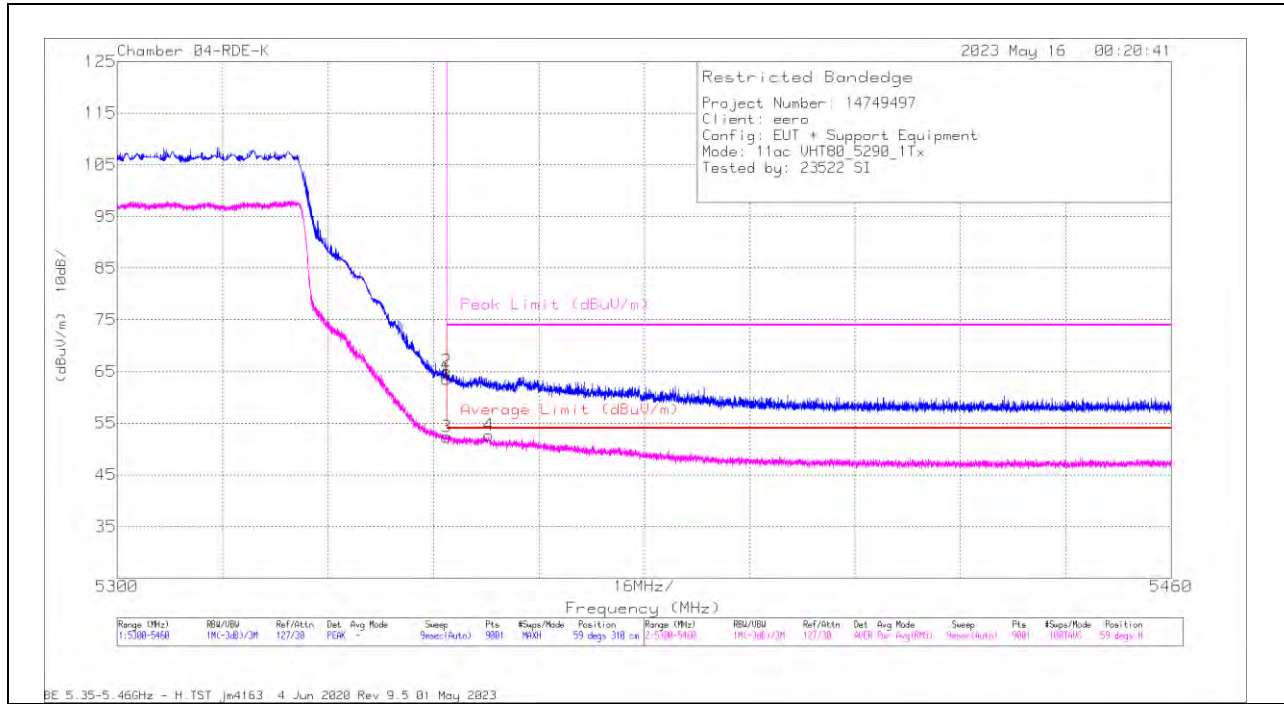
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### 10.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (MID CHANNEL)

#### HORIZONTAL RESULT

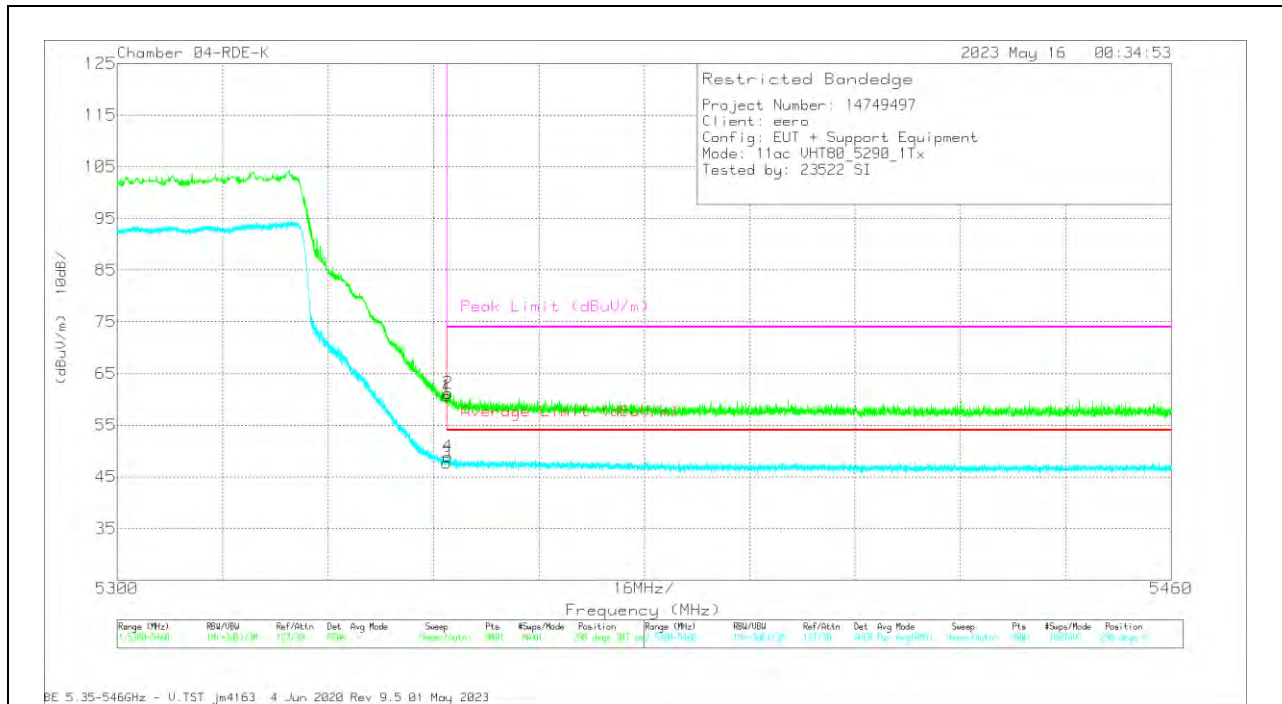


#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	59.75	Pk	34.5	-30.7	63.55	-	-	74	-10.45	59	310	H
2	* 5350.045	61.27	PK	34.5	-30.7	65.07	-	-	74	-8.93	59	310	H
3	* 5350	48.55	RMS	34.5	-30.7	52.35	54	-1.65	-	-	59	310	H
4	* 5356.41	48.84	RMS	34.5	-30.7	52.64	54	-1.36	-	-	59	310	H

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

### VERTICAL RESULT



### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	56.84	Pk	34.5	-30.7	60.64	-	-	74	-13.36	298	307	V
2	* 5350.187	57.37	Pk	34.5	-30.7	61.17	-	-	74	-12.83	298	307	V
3	* 5350	43.91	RMS	34.5	-30.7	47.71	54	-6.29	-	-	298	307	V
4	* 5350.241	45.11	RMS	34.5	-30.7	48.91	54	-5.09	-	-	298	307	V

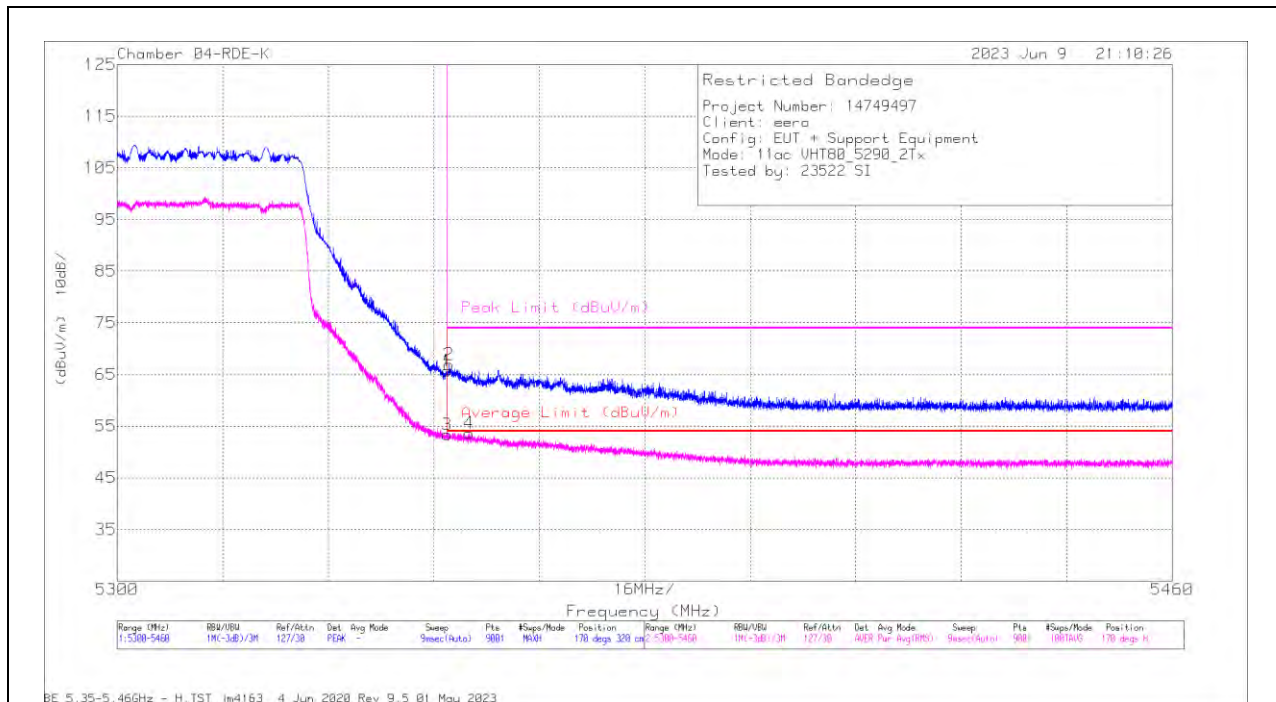
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection



**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



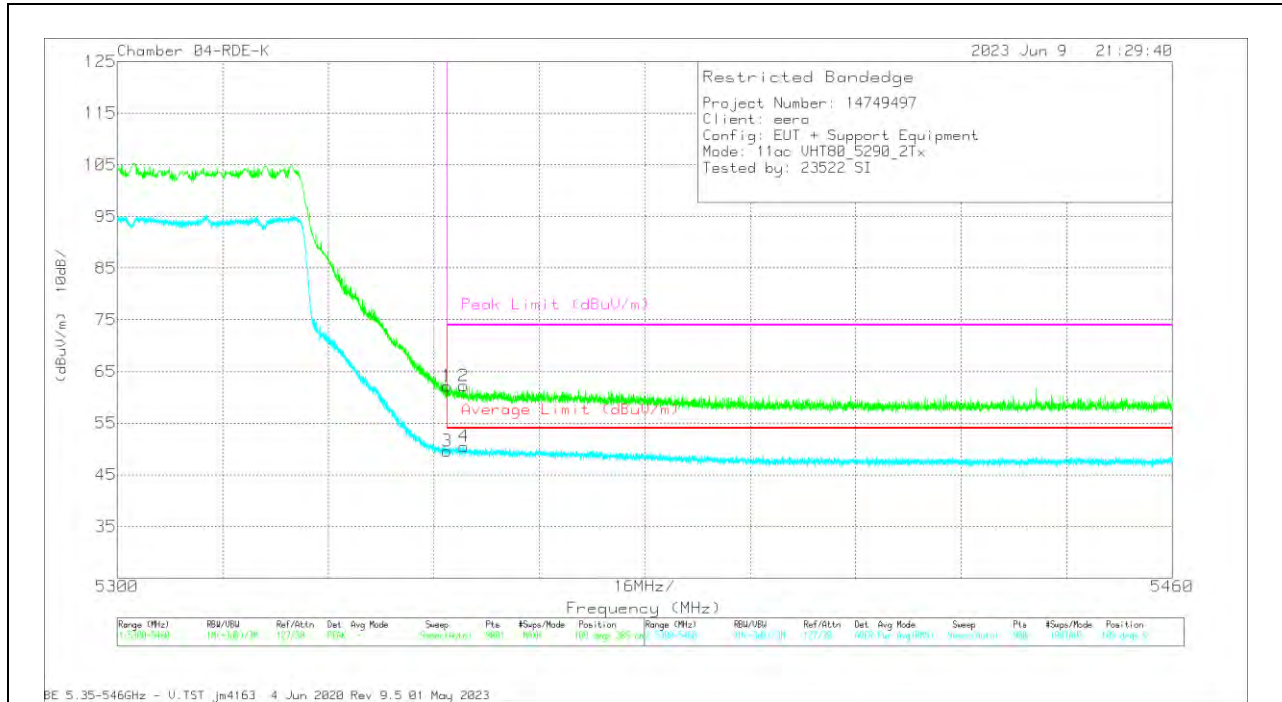
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	61.2	Pk	34.5	-30	65.7	-	-	74	-8.3	170	320	H
2	* 5350.276	62.4	Pk	34.5	-30	66.9	-	-	74	-7.1	170	320	H
3	* 5350	48.87	RMS	34.5	-30	53.37	54	-63	-	-	170	320	H
4	* 5353.316	49.03	RMS	34.5	-29.9	53.63	54	-37	-	-	170	320	H

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



### VERTICAL RESULT



### Trace Markers

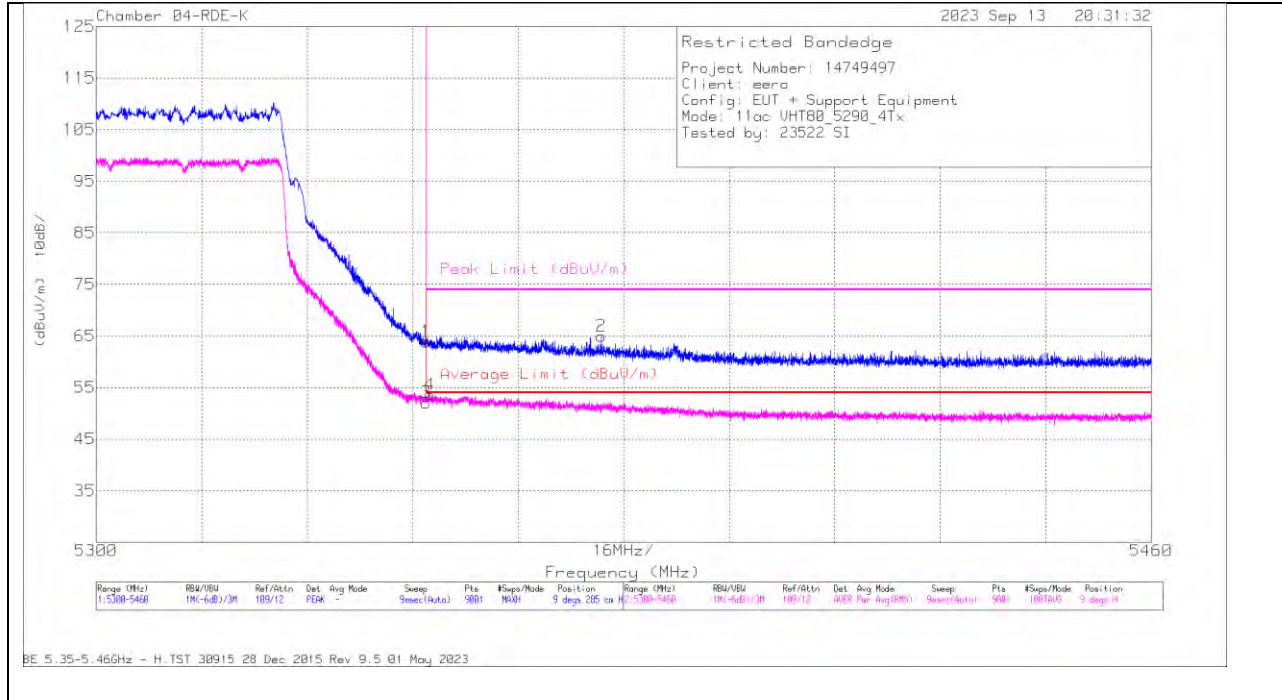
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	57.68	PK	34.5	-30	62.18	-	-	74	-11.82	109	389	V
2	* 5352.534	57.63	PK	34.5	-29.9	62.23	-	-	74	-11.77	109	389	V
3	* 5350	45.1	RMS	34.5	-30	49.6	54	-4.4	-	-	109	389	V
4	* 5352.605	45.89	RMS	34.5	-29.9	50.49	54	-3.51	-	-	109	389	V

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

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

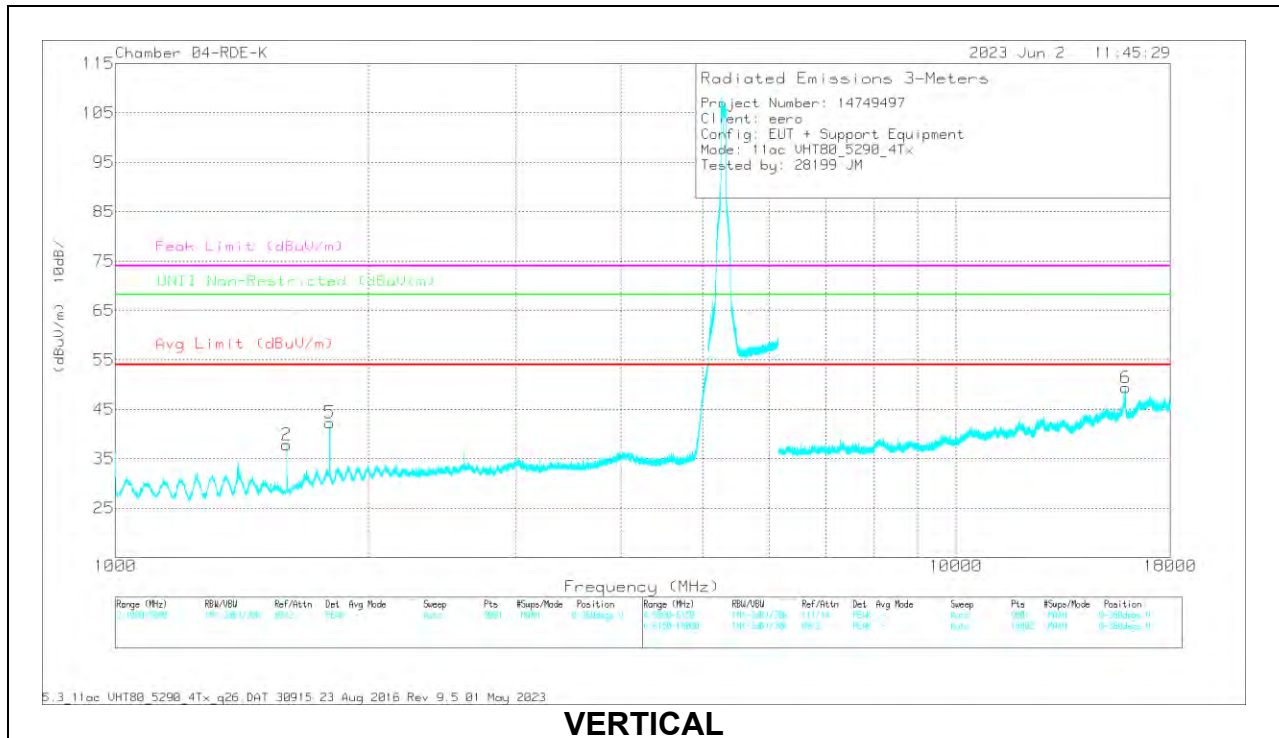
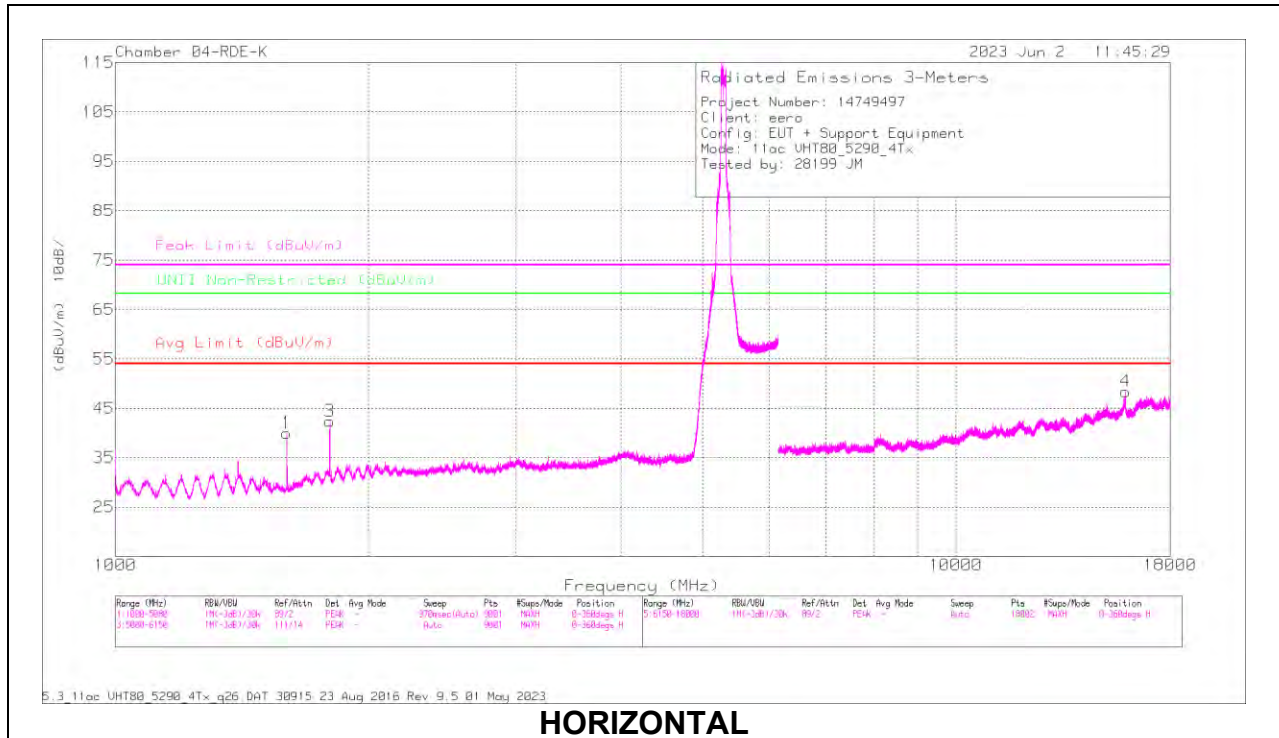
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	36.21	Pk	34.5	-6.8	63.91	-	-	74	-10.09	9	285	H
2	* 5376.57	37.27	Pk	34.5	-6.8	64.97	-	-	74	-9.03	9	285	H
3	* 5350	24.39	RMS	34.5	-6.8	52.09	54	-1.91	-	-	9	285	H
4	* 5350.578	25.89	RMS	34.5	-6.8	53.59	54	-41	-	-	9	285	H

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



# HARMONICS AND SPURIOUS EMISSIONS

## MID CHANNEL RESULTS



### RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Cbl/Amp (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	* 1600.22	59.8	PK-U	28	-45.4	42.4	-	-	74	-31.6	-	-	217	382	H
	* 1600.151	53.14	ADR	28	-45.4	35.74	54	-18.26	-	-	-	-	217	382	H
3	1800.132	62.64	PK-U	30.2	-45.1	47.74	-	-	-	-	68.2	-20.46	154	139	H
2	* 1600.29	57.52	PK-U	28	-45.4	40.12	-	-	74	-33.88	-	-	81	306	V
	* 1599.959	46.83	ADR	28	-45.4	29.43	54	-24.57	-	-	-	-	81	306	V
5	1800.044	62.11	PK-U	30.2	-45.1	47.21	-	-	-	-	68.2	-20.99	175	199	V
4	* 15922.997	47.12	PK-U	40.2	-32.2	55.12	-	-	74	-18.88	-	-	308	295	H
	* 15923.566	35.55	ADR	40.2	-32.2	43.55	54	-10.45	-	-	-	-	308	295	H
6	* 15924.41	48.12	PK-U	40.2	-32.2	56.12	-	-	74	-17.88	-	-	127	239	V
	* 15919.048	36.2	ADR	40.2	-32.1	44.3	54	-9.7	-	-	-	-	127	239	V

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

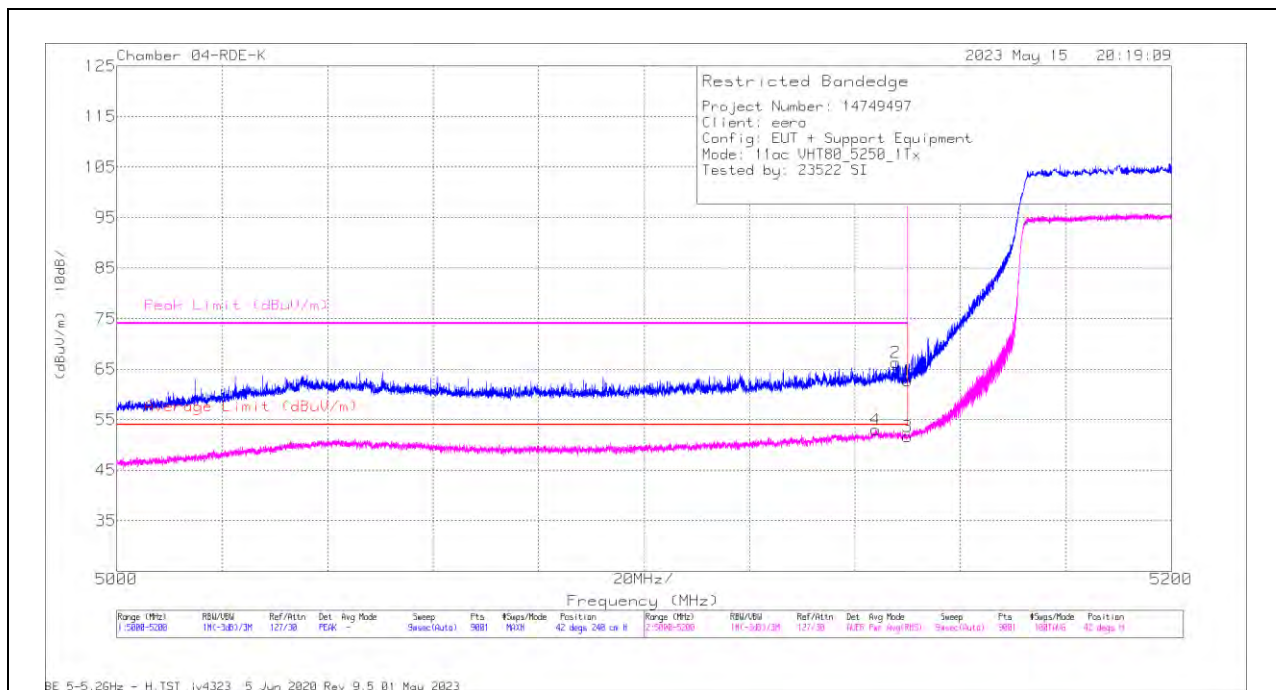


### 10.1.5. TX ABOVE 1 GHz 802.11ac VHT160 MODE IN THE 5.3GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW EDGE)

#### HORIZONTAL RESULT



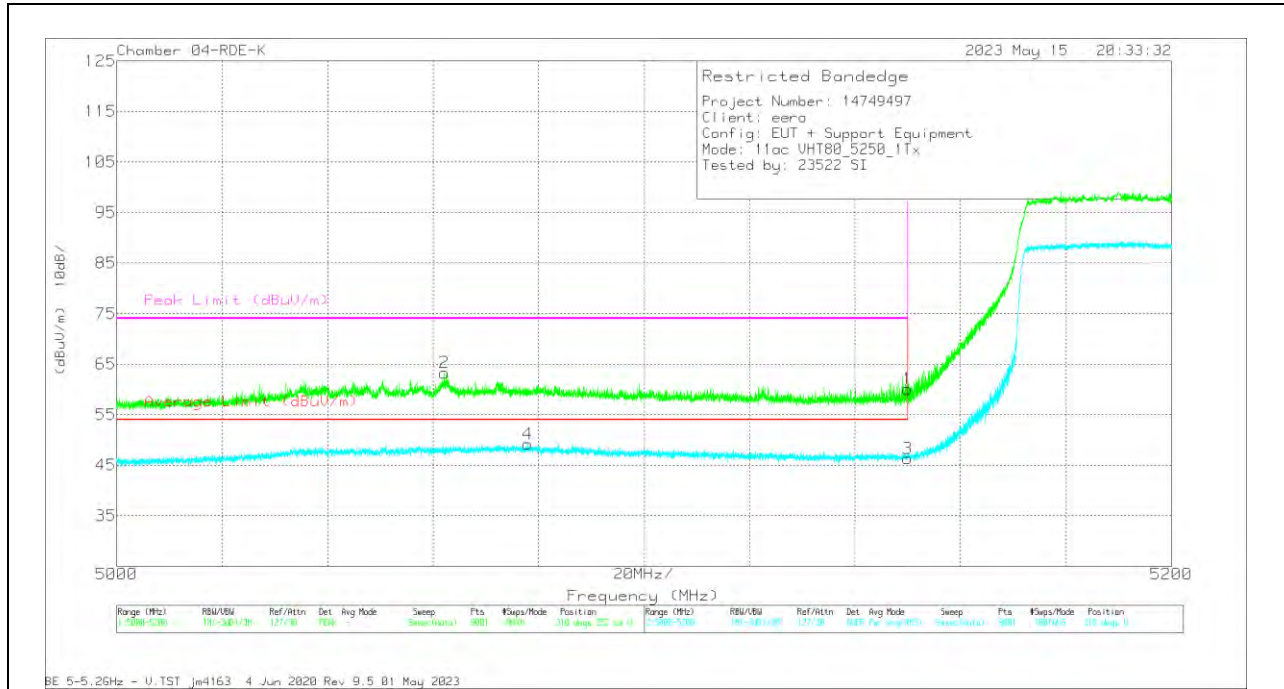
#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	59.5	Pk	34.1	-30.9	62.7	-	-	74	-11.3	42	240	H
2	* 5147.732	63.14	Pk	34	-30.8	66.34	-	-	74	-7.66	42	240	H
3	* 5150	48.5	RMS	34.1	-30.9	51.7	54	-2.3	-	-	42	240	H
4	* 5143.954	49.9	RMS	34	-30.9	53	54	-1	-	-	42	240	H

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



### VERTICAL RESULT



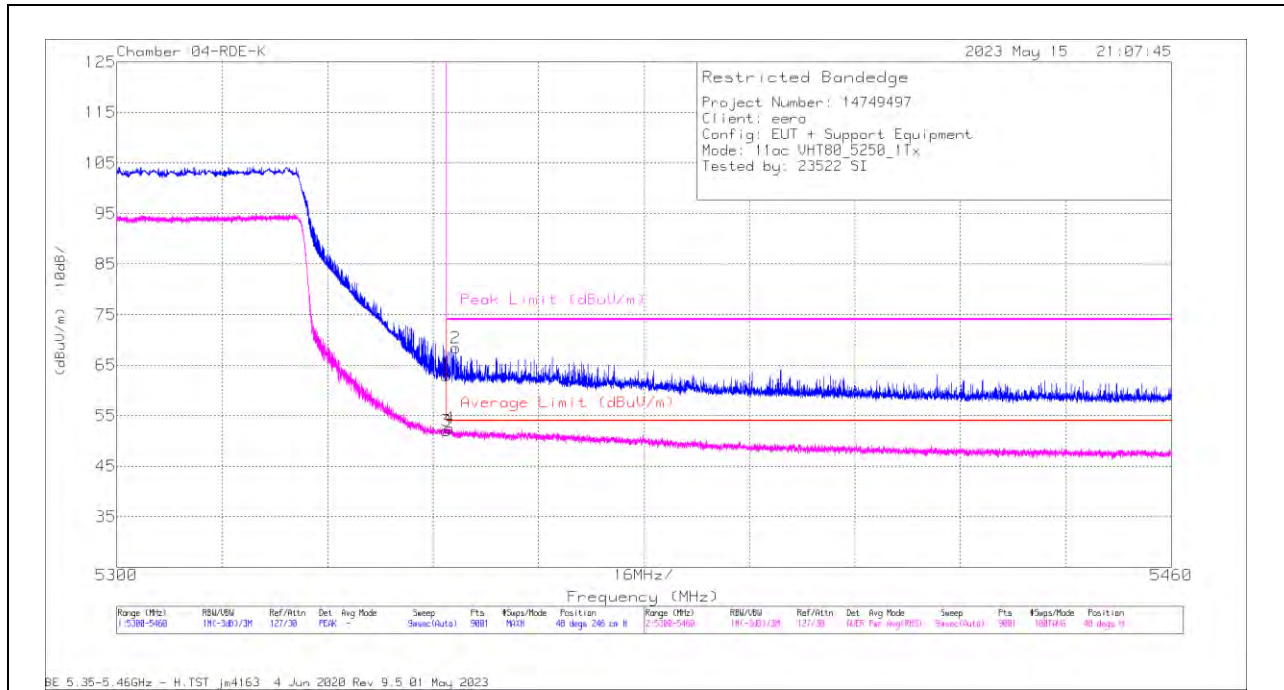
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	56.88	Pk	34.1	-30.9	60.08	-	-	74	-13.92	310	252	V
2	* 5062.088	60.27	Pk	33.9	-30.9	63.27	-	-	74	-10.73	310	252	V
3	* 5150	43.1	RMS	34.1	-30.9	46.3	54	-7.7	-	-	310	252	V
4	* 5077.933	46.14	RMS	33.9	-30.9	49.14	54	-4.86	-	-	310	252	V

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

**BANDEDGE (HIGH EDGE)**

**HORIZONTAL RESULT**

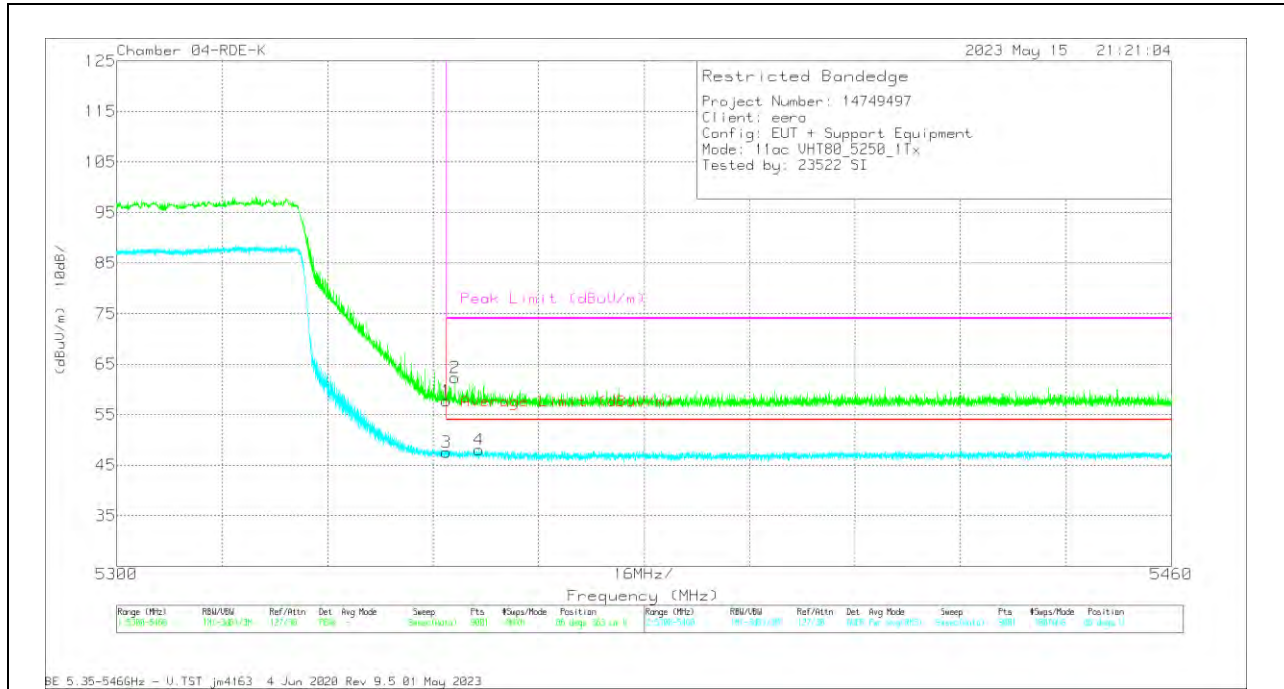


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	59.22	Pk	34.5	-30.7	63.02	-	-	74	-10.98	48	246	H
2	* 5351.414	64.65	Pk	34.5	-30.7	68.45	-	-	74	-5.55	48	246	H
3	* 5350	48.27	RMS	34.5	-30.7	52.07	54	-1.93	-	-	48	246	H
4	* 5350.436	48.78	RMS	34.5	-30.7	52.58	54	-1.42	-	-	48	246	H

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

### VERTICAL RESULT



### Trace Markers

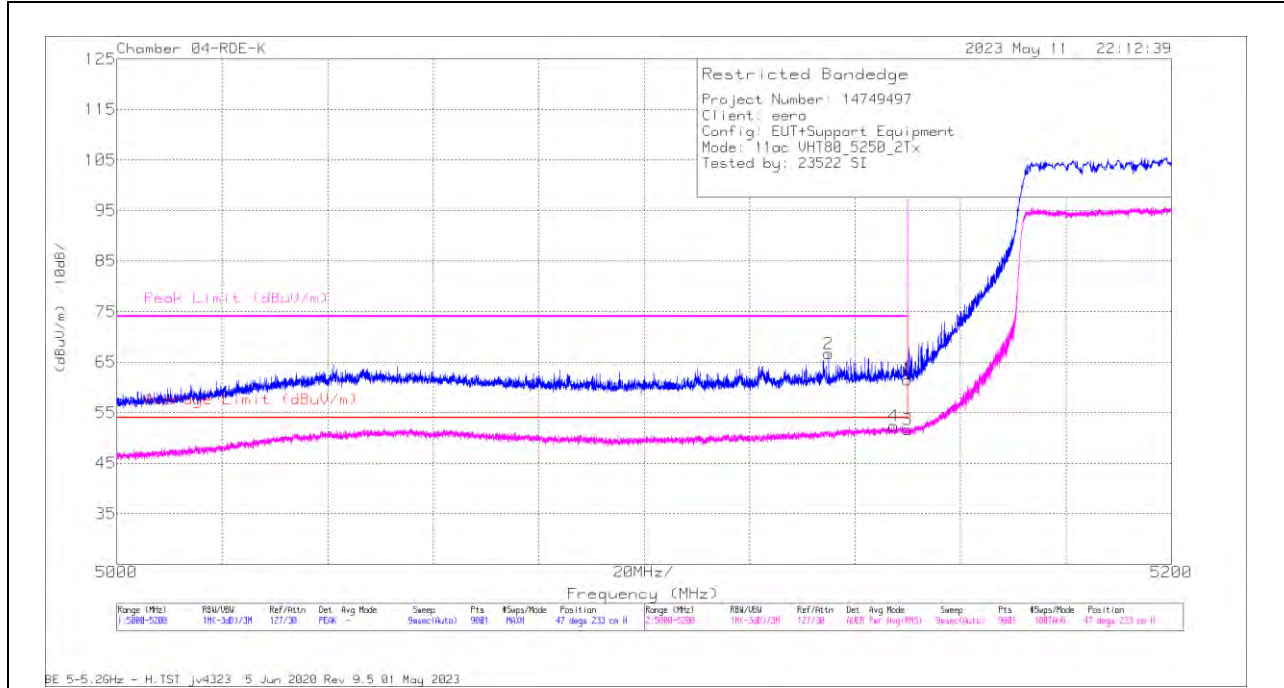
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	53.96	Pk	34.5	-30.7	57.76	-	-	74	-16.24	86	363	V
2	* 5351.307	58.49	Pk	34.5	-30.7	62.29	-	-	74	-11.71	86	363	V
3	* 5350	43.76	RMS	34.5	-30.7	47.56	54	-6.44	-	-	86	363	V
4	* 5354.916	44.15	RMS	34.5	-30.6	48.05	54	-5.95	-	-	86	363	V

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

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (LOW EDGE)**

**HORIZONTAL RESULT**

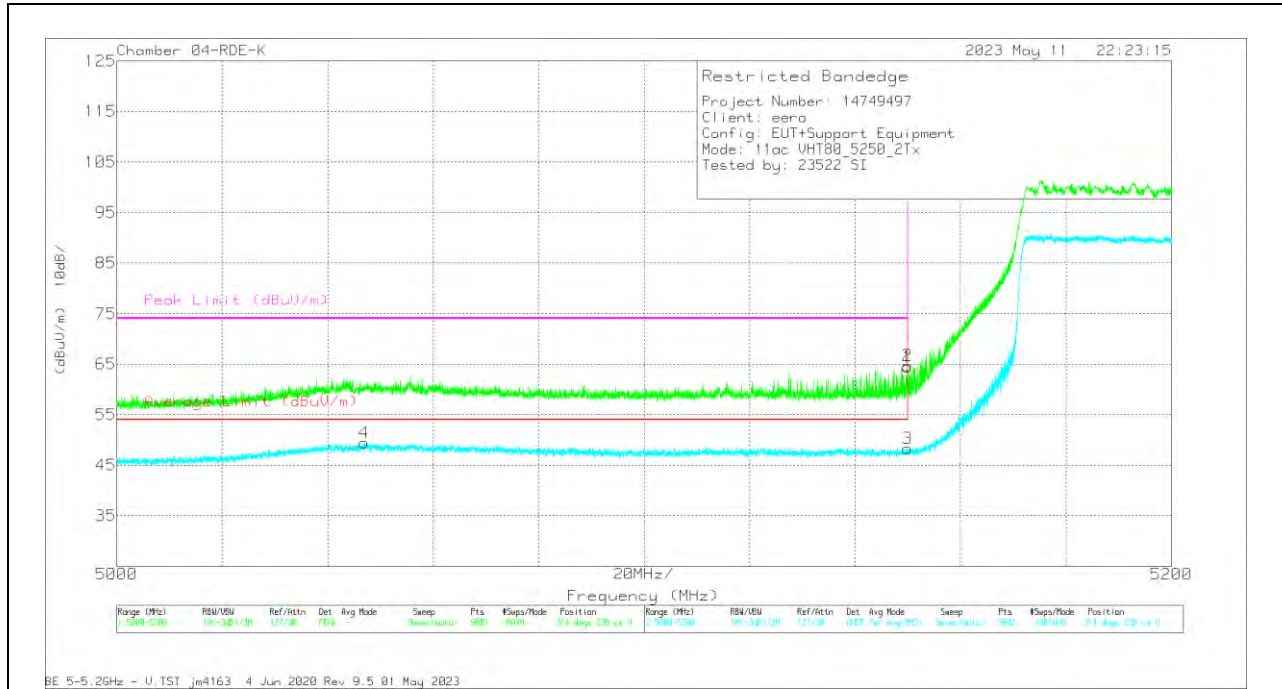


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	58.28	Pk	34.1	-30.9	61.48	-	-	74	-12.52	47	233	H
2	* 5134.999	63.61	Pk	34	-30.9	66.71	-	-	74	-7.29	47	233	H
3	* 5150	48.51	RMS	34.1	-30.9	51.71	54	-2.29	-	-	47	233	H
4	* 5147.332	49.21	RMS	34	-30.8	52.41	54	-1.59	-	-	47	233	H

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

### VERTICAL RESULT



### Trace Markers

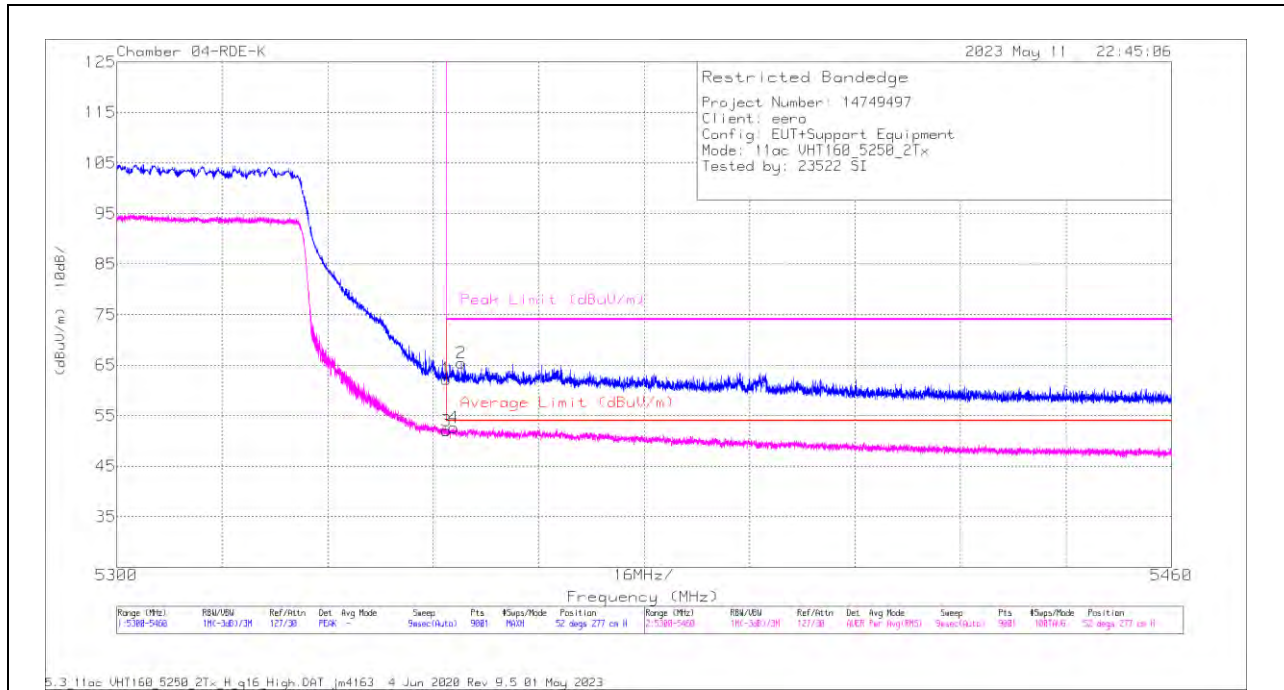
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	61.25	Pk	34.1	-30.9	64.45	-	-	74	-9.55	314	238	V
2	* 5149.999	61.5	Pk	34.1	-30.9	64.7	-	-	74	-9.3	314	238	V
3	* 5150	45.05	RMS	34.1	-30.9	48.25	54	-5.75	-	-	314	238	V
4	* 5046.955	46.4	RMS	33.9	-30.9	49.4	54	-4.6	-	-	314	238	V

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



**BANDEDGE (HIGH EDGE)**

**HORIZONTAL RESULT**



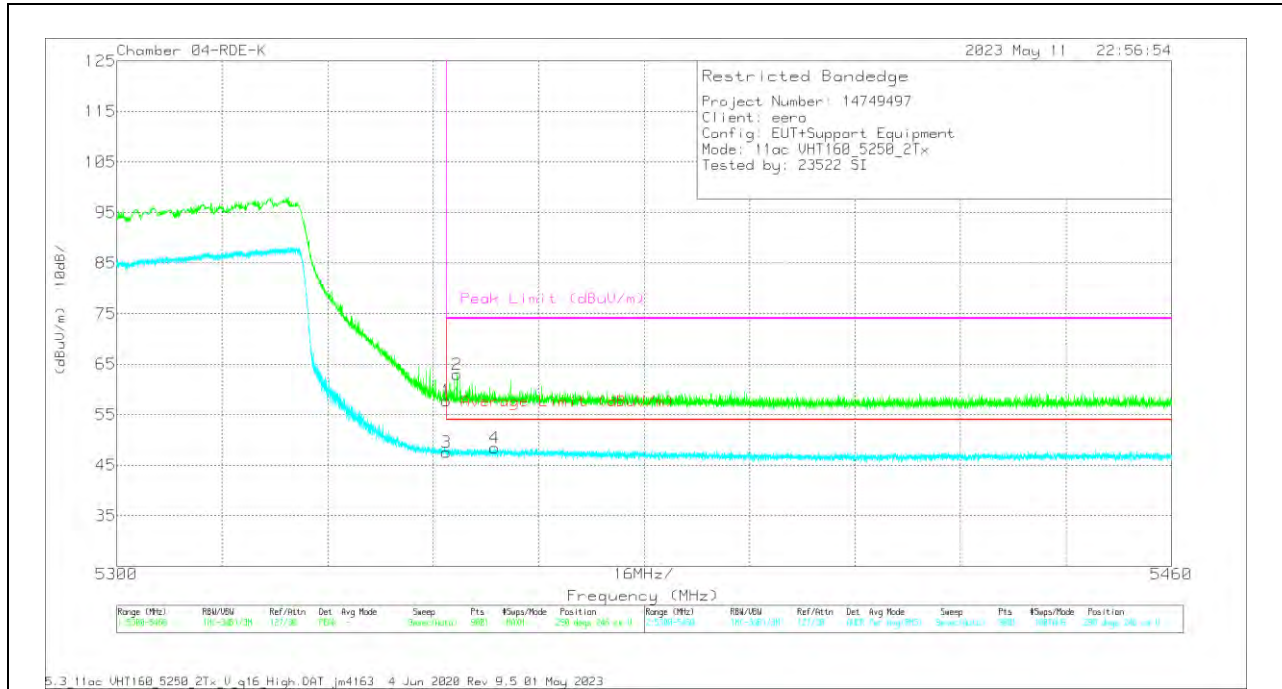
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	58.47	Pk	34.5	-30.7	62.27	-	-	74	-11.73	52	277	H
2	* 5352.321	61.59	Pk	34.5	-30.7	65.39	-	-	74	-8.61	52	277	H
3	* 5350	48.23	RMS	34.5	-30.7	52.03	54	-1.97	-	-	52	277	H
4	* 5351.147	48.8	RMS	34.5	-30.7	52.6	54	-1.4	-	-	52	277	H

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



### VERTICAL RESULT



### Trace Markers

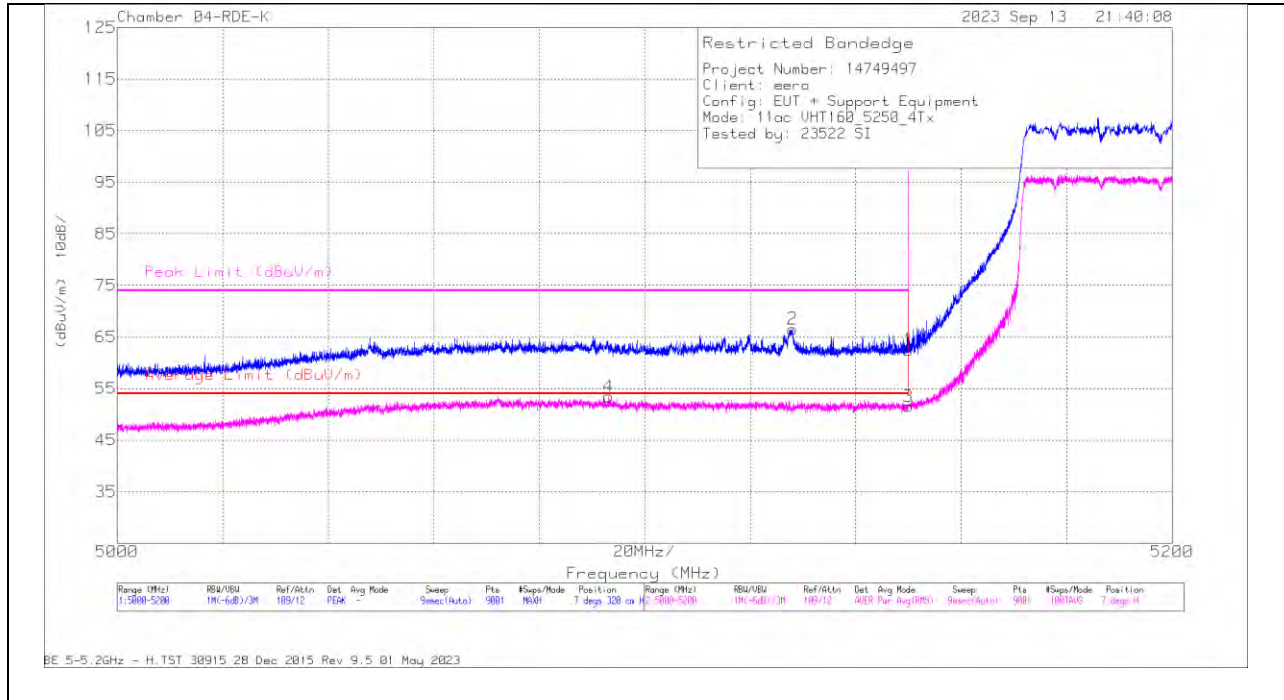
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	53.96	Pk	34.5	-30.7	57.76	-	-	74	-16.24	290	246	V
2	* 5351.574	59.15	Pk	34.5	-30.7	62.95	-	-	74	-11.05	290	246	V
3	* 5350	43.79	RMS	34.5	-30.7	47.59	54	-6.41	-	-	290	246	V
4	* 5357.352	44.51	RMS	34.5	-30.6	48.41	54	-5.59	-	-	290	246	V

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

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (LOW EDGE)**

**HORIZONTAL RESULT**

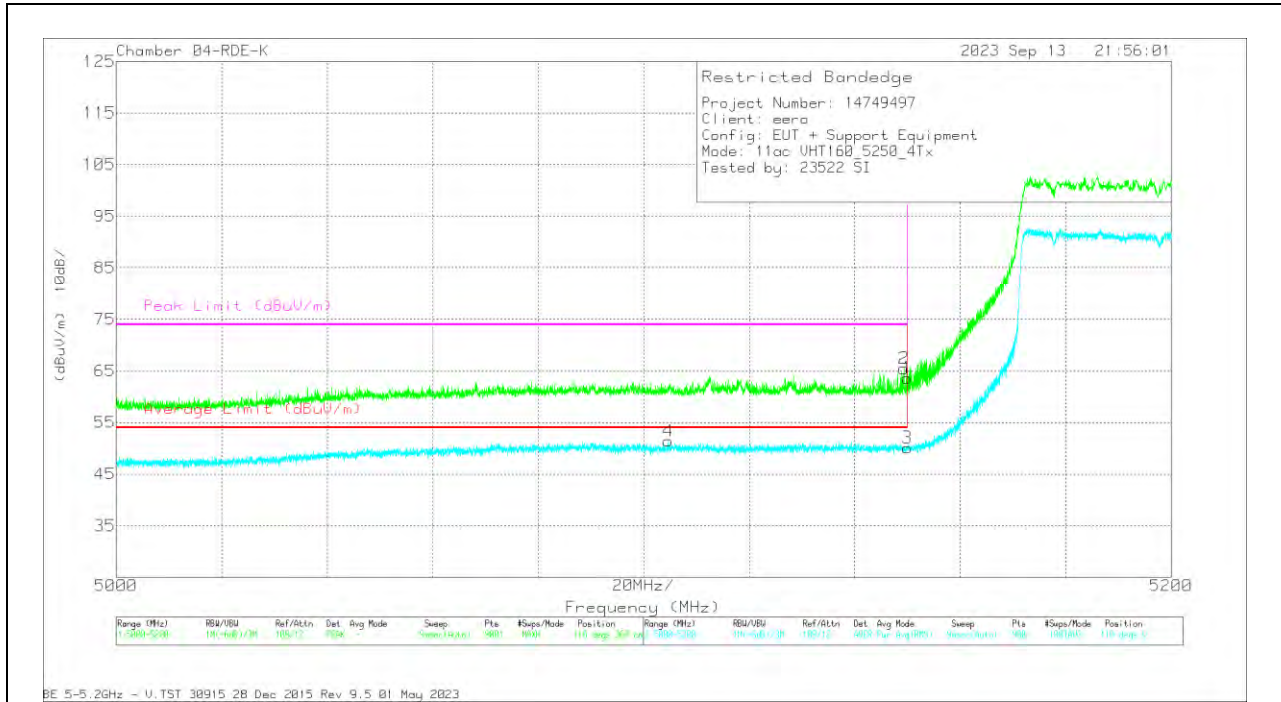


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	35.61	Pk	34.1	-7.3	62.41	-	-	74	-11.59	7	320	H
2	* 5128.021	39.74	Pk	34	-7.2	66.54	-	-	74	-7.46	7	320	H
3	* 5150	24.72	RMS	34.1	-7.3	51.52	54	-2.48	-	-	7	320	H
4	* 5093.177	26.85	RMS	33.9	-7.3	53.45	54	-5.55	-	-	7	320	H

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

### VERTICAL RESULT



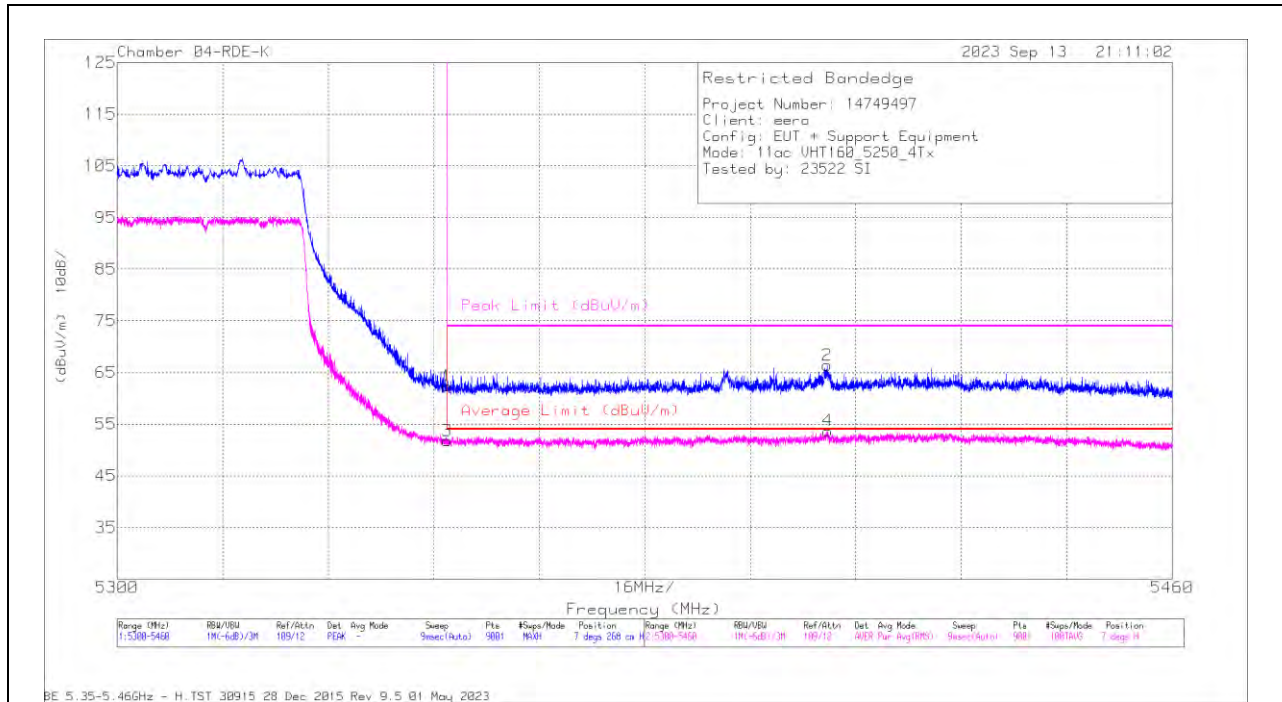
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5150	36.83	Pk	34.1	-7.3	63.63	-	-	74	-10.37	110	369	V
2	* 5149.31	38.7	Pk	34.1	-7.3	65.5	-	-	74	-8.5	110	369	V
3	* 5150	23.29	RMS	34.1	-7.3	50.09	54	-3.91	-	-	110	369	V
4	* 5104.643	24.8	RMS	33.9	-7.3	51.4	54	-2.6	-	-	110	369	V

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

**BANDEDGE (HIGH EDGE)**

**HORIZONTAL RESULT**



**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5350	34.86	PK	34.5	-6.8	62.36	-	-	74	-11.64	7	268	H
2	* 5407.664	38.5	PK	34.6	-6.7	66.4	-	-	74	-7.6	7	268	H
3	* 5350	24.08	RMS	34.5	-6.8	51.78	54	-2.22	-	-	7	268	H
4	* 5407.77	25.86	RMS	34.6	-6.8	53.66	54	-.34	-	-	7	268	H

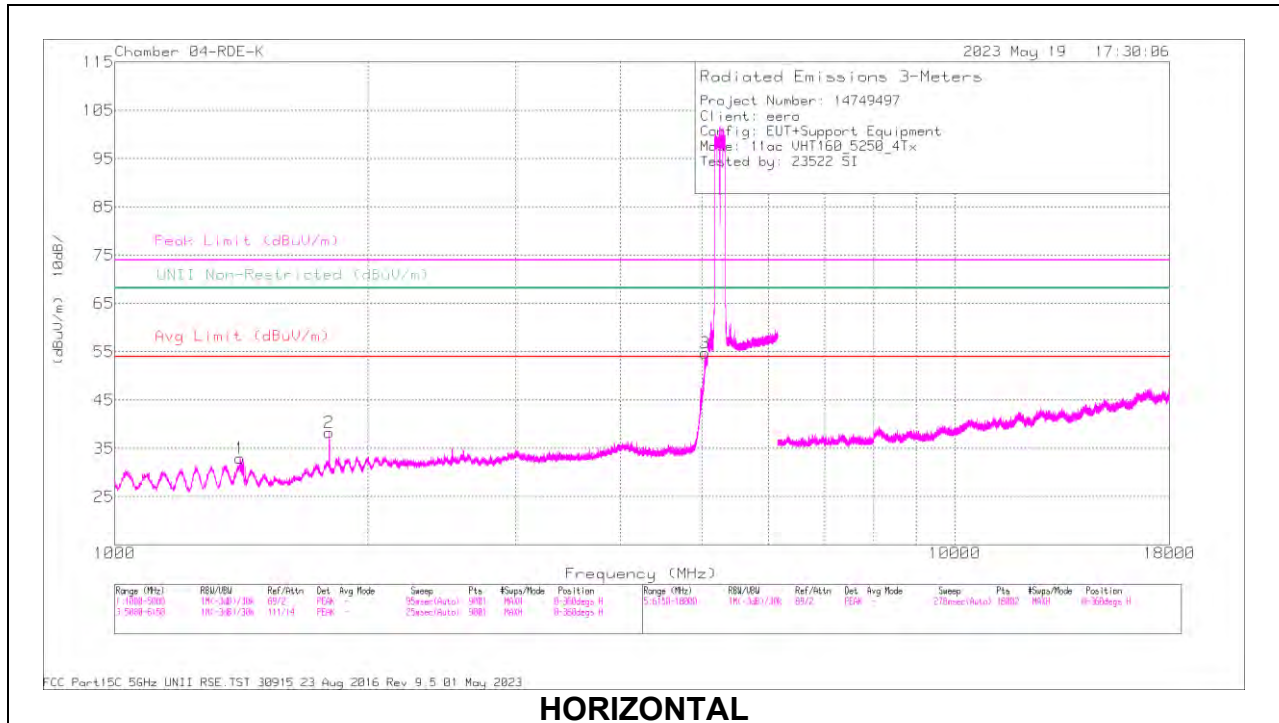
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection



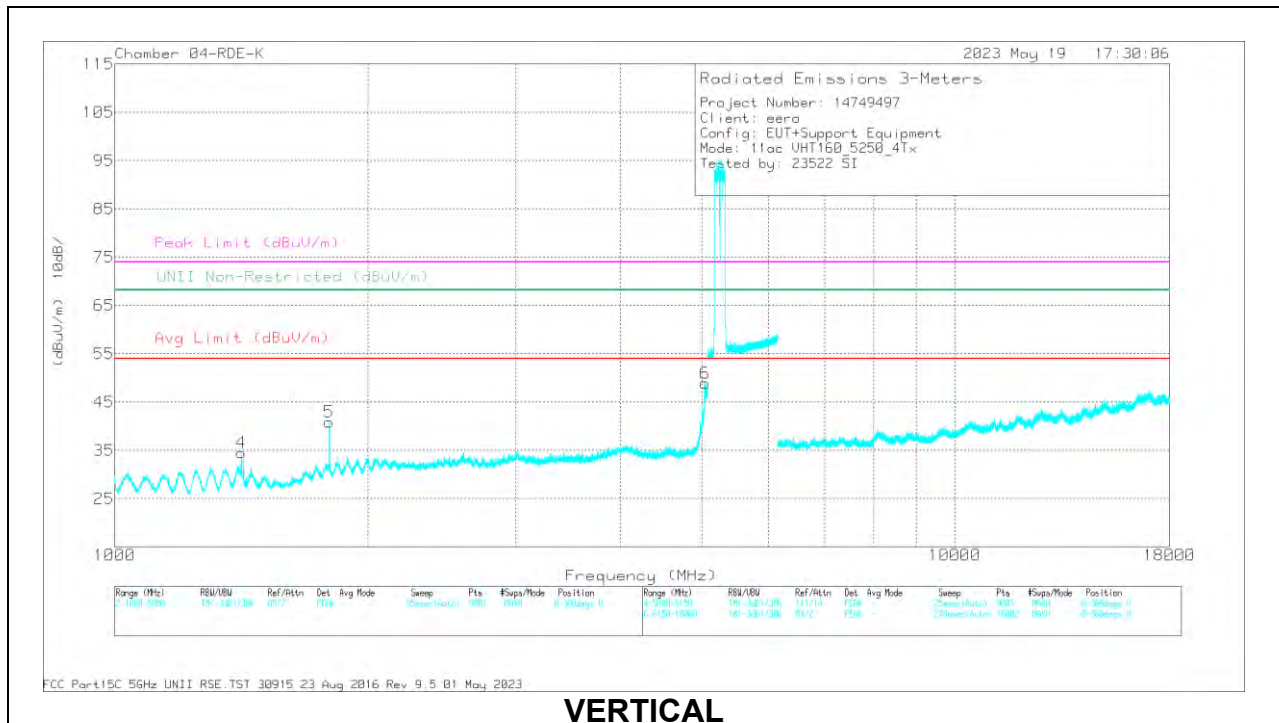


# HARMONICS AND SPURIOUS EMISSIONS

## MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Cbl/Amp (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	* 1414.393	67.01	PK-U	28.7	-45.5	50.21	-	-	74	-23.79	-	-	172	245	H
	* 1413.556	47.14	ADR	28.7	-45.5	30.34	54	-23.66	-	-	-	-	172	245	H
2	1801.963	69.68	PK-U	30.2	-45.3	54.58	-	-	-	-	68.2	-13.62	174	235	H
3	* 5042.474	72.21	PK-U	33.9	-37.9	68.21	-	-	74	-5.79	-	-	37	146	H
	* 5040.902	55.1	ADR	33.9	-37.9	51.1	54	-2.9	-	-	-	-	37	146	H
4	* 1412.586	67.5	PK-U	28.7	-45.6	50.6	-	-	74	-23.4	-	-	212	232	V
	* 1414.985	48.38	ADR	28.7	-45.5	31.58	54	-22.42	-	-	-	-	212	232	V
5	1799.926	62.31	PK-U	30.2	-45.1	47.41	-	-	-	-	68.2	-20.79	164	380	V
6	* 5042.409	64.56	PK-U	33.9	-37.9	60.56	-	-	74	-13.44	-	-	10	127	V
	* 5043.507	49.88	ADR	33.9	-37.8	45.98	54	-8.02	-	-	-	-	10	127	V

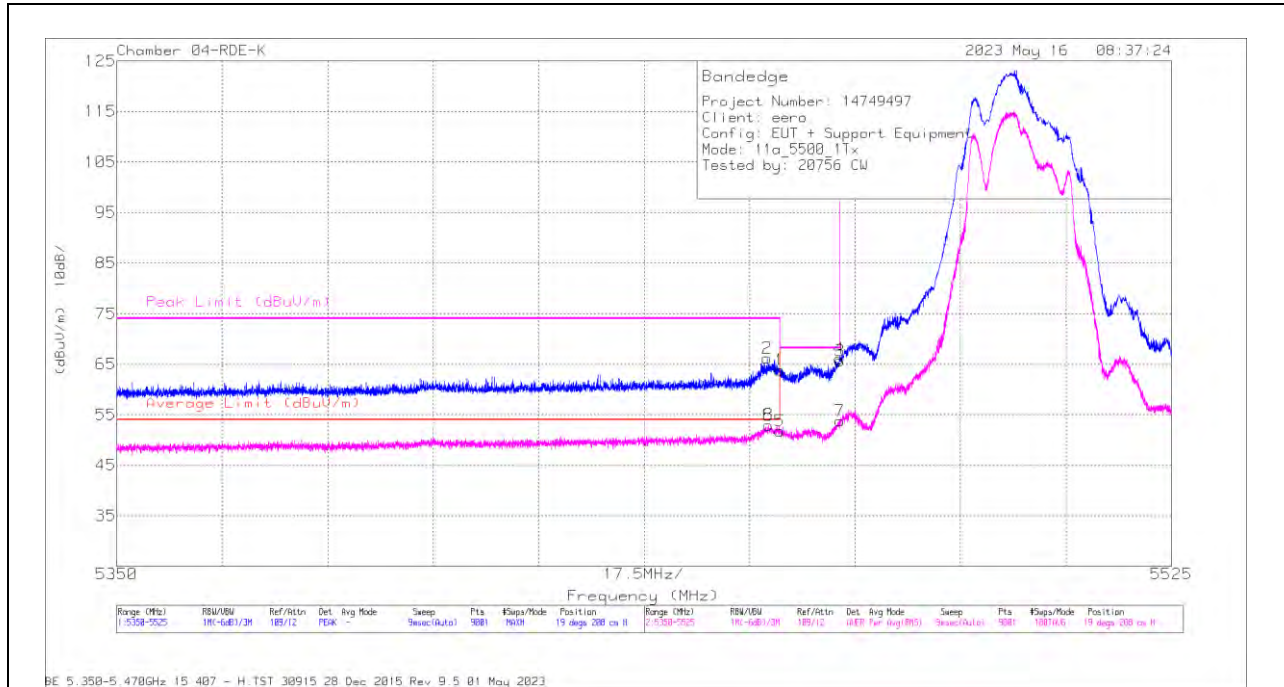
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### 10.1.6. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

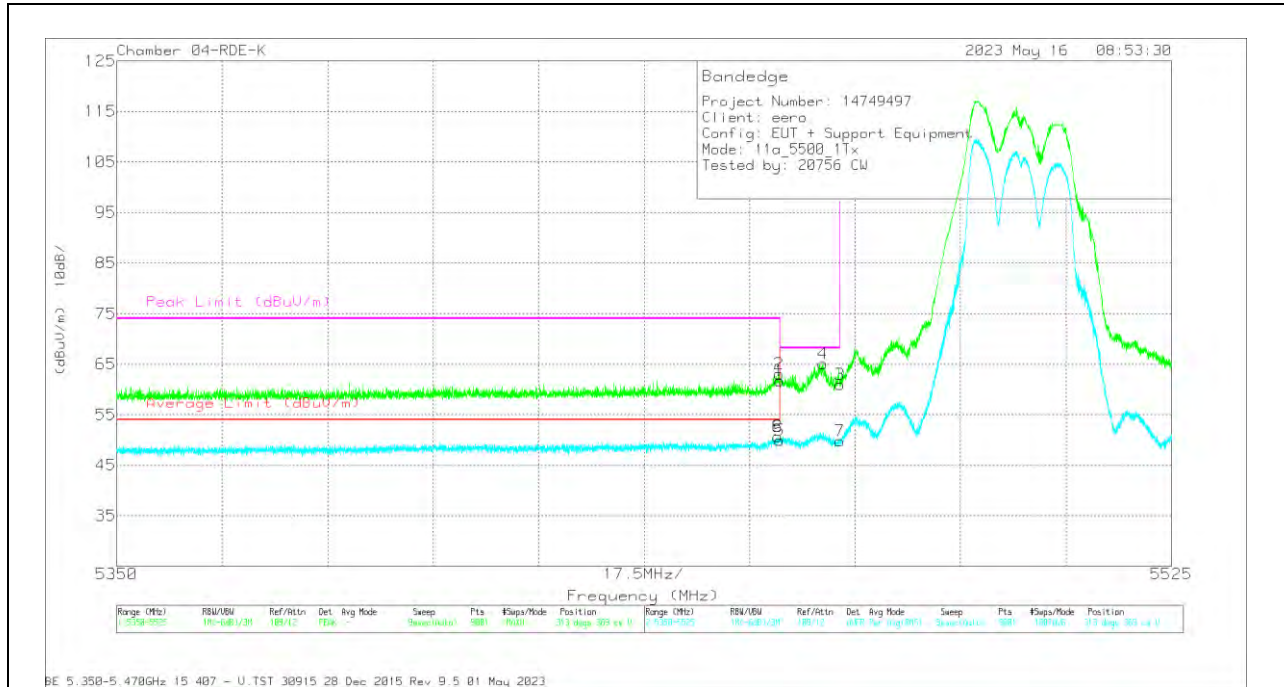
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	36.61	Pk	34.6	-7.4	63.81	-	-	68.2	-4.39	19	208	H
2	* 5457.895	38.98	Pk	34.6	-7.4	66.18	-	-	74	-7.82	19	208	H
3	5470	38.39	Pk	34.6	-7.3	65.69	-	-	68.2	-2.51	19	208	H
4	5469.931	38.81	Pk	34.6	-7.3	66.11	-	-	68.2	-2.09	19	208	H
5	* 5460	24.61	RMS	34.6	-7.4	51.81	54	-2.19	-	-	19	208	H
6	* 5458.167	25.76	RMS	34.6	-7.4	52.96	54	-1.04	-	-	19	208	H
7	5470	26.5	RMS	34.6	-7.3	53.8	-	-	-	-	19	208	H
8	* 5458.167	25.76	RMS	34.6	-7.4	52.96	54	-1.04	-	-	19	208	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



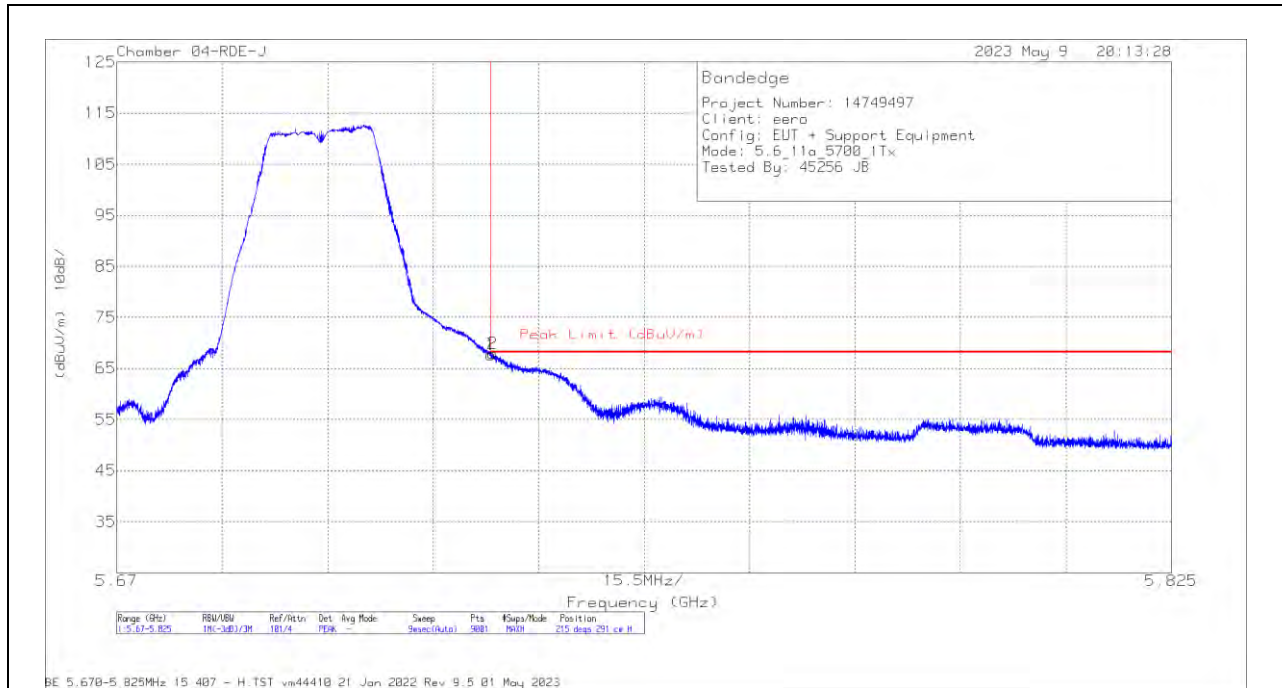
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	34.56	Pk	34.6	-7.4	61.76	-	-	68.2	-6.44	313	369	V
2	* 5459.859	35.91	Pk	34.6	-7.4	63.11	-	-	74	-10.89	313	369	V
3	5470	33.7	Pk	34.6	-7.3	61	-	-	68.2	-7.2	313	369	V
4	5467.131	37.85	Pk	34.6	-7.4	65.05	-	-	68.2	-3.15	313	369	V
5	* 5460	22.74	RMS	34.6	-7.4	49.94	54	-4.06	-	-	313	369	V
6	* 5459.742	23.45	RMS	34.6	-7.4	50.65	54	-3.35	-	-	313	369	V
7	5470	22.46	RMS	34.6	-7.3	49.76	-	-	-	-	313	369	V
8	* 5459.742	23.45	RMS	34.6	-7.4	50.65	54	-3.35	-	-	313	369	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

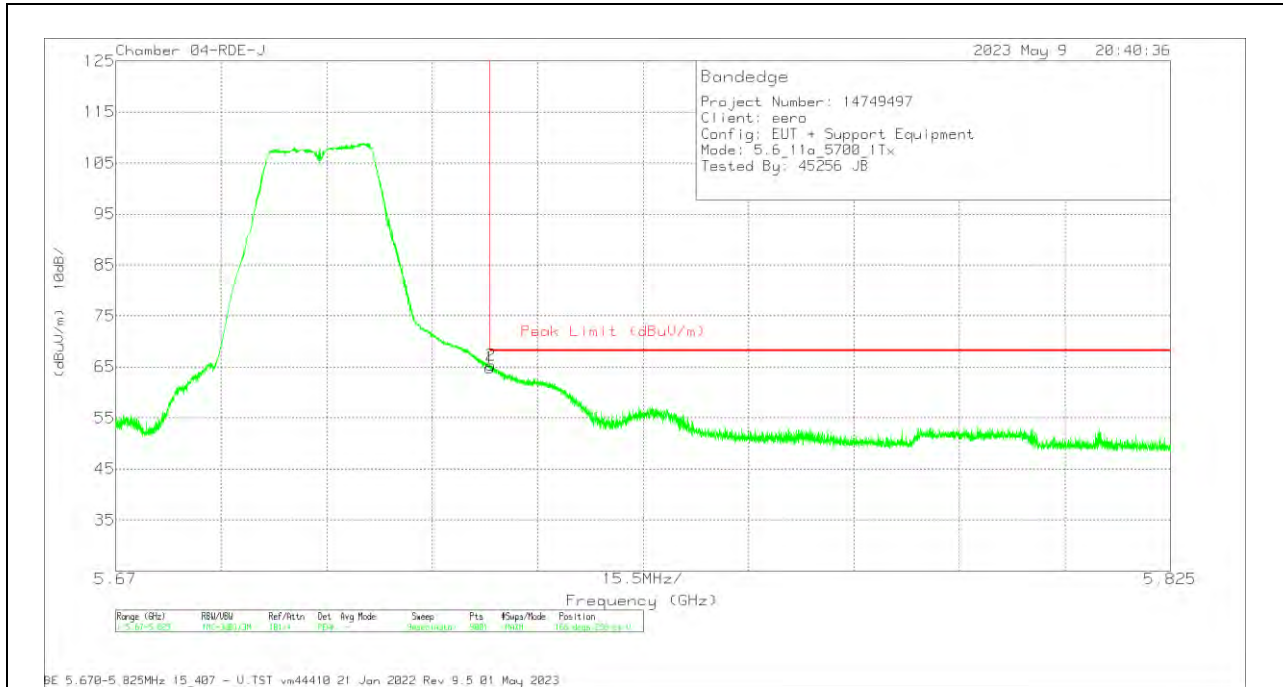


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	46.37	Pk	34.7	-13.4	67.67	68.2	-.53	215	291	H
2	5.725283	46.66	Pk	34.7	-13.4	67.96	68.2	-.24	215	291	H

Pk - Peak detector

### VERTICAL RESULT



### Trace Markers

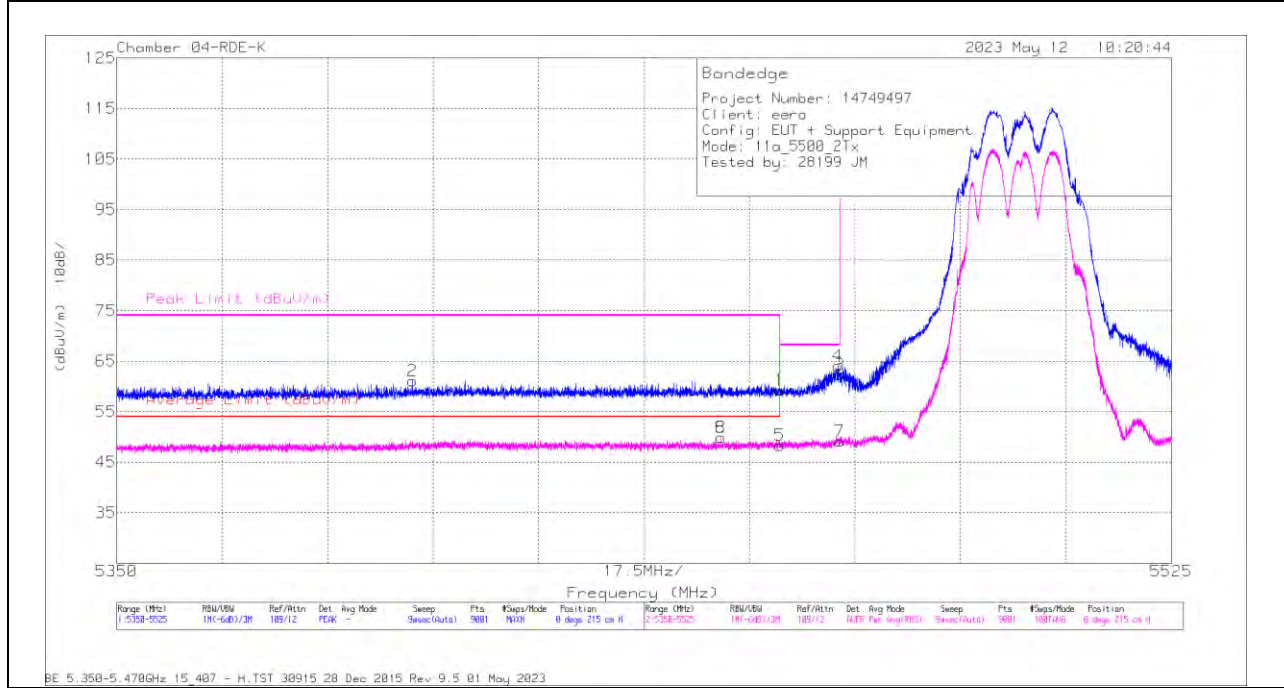
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.6	Pk	34.7	-13.4	64.9	68.2	-3.3	166	256	V
2	5.725145	44	Pk	34.7	-13.4	65.3	68.2	-2.9	166	256	V

Pk - Peak detector

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



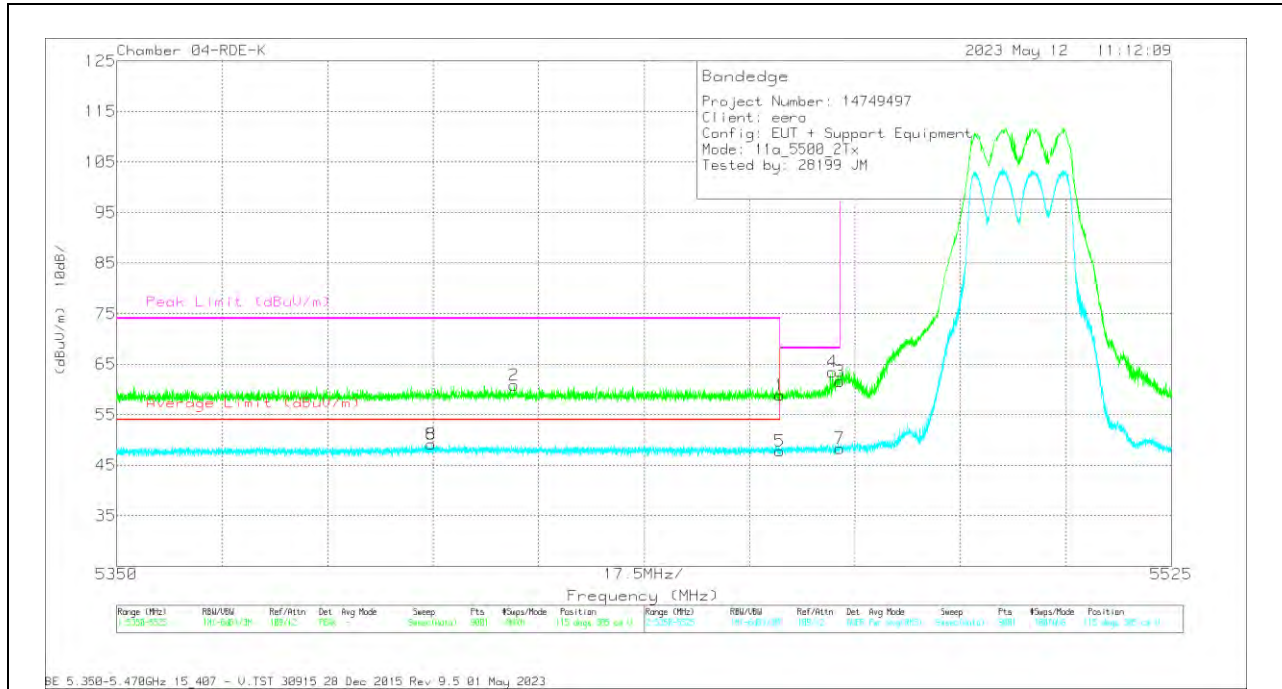
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	32.04	Pk	34.6	-7.4	59.24	-	-	68.2	-8.96	0	215	H
2	* 5399.038	33.97	Pk	34.6	-7.5	61.07	-	-	74	-12.93	0	215	H
3	5470	35.07	Pk	34.6	-7.3	62.37	-	-	68.2	-5.83	0	215	H
4	5469.639	36.76	Pk	34.6	-7.3	64.06	-	-	68.2	-4.14	0	215	H
5	* 5460	21.17	RMS	34.6	-7.4	48.37	54	-5.63	-	-	0	215	H
6	* 5450.234	22.72	RMS	34.6	-7.4	49.92	54	-4.08	-	-	0	215	H
7	5470	21.83	RMS	34.6	-7.3	49.13	-	-	-	-	0	215	H
8	* 5450.234	22.72	RMS	34.6	-7.4	49.92	54	-4.08	-	-	0	215	H

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



### VERTICAL RESULT



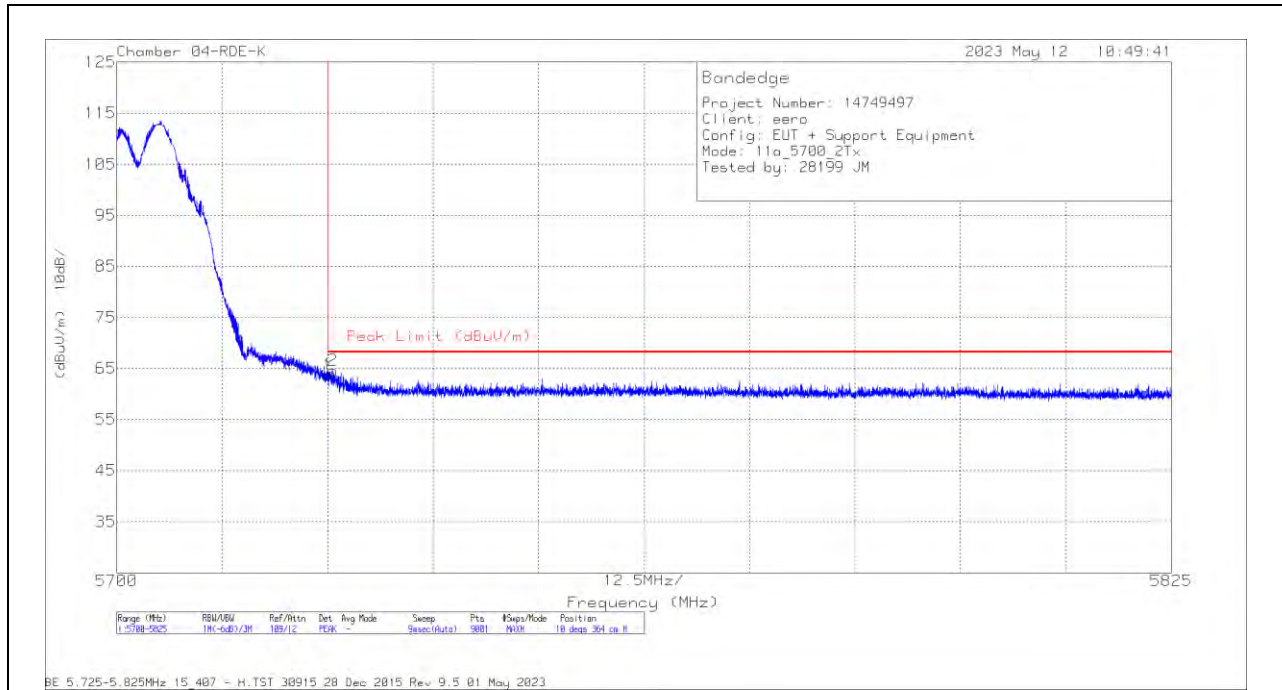
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	31.62	Pk	34.6	-7.4	58.82	-	-	68.2	-9.38	115	305	V
2	* 5415.954	33.58	Pk	34.6	-7.3	60.88	-	-	74	-13.12	115	305	V
3	5470	34.31	Pk	34.6	-7.3	61.61	-	-	68.2	-6.59	115	305	V
4	5468.783	36.21	Pk	34.6	-7.3	63.51	-	-	68.2	-4.69	115	305	V
5	* 5460	20.66	RMS	34.6	-7.4	47.86	54	-6.14	-	-	115	305	V
6	* 5402.149	21.92	RMS	34.6	-7.4	49.12	54	-4.88	-	-	115	305	V
7	5470	21.07	RMS	34.6	-7.3	48.37	-	-	-	-	115	305	V
8	* 5402.149	21.92	RMS	34.6	-7.4	49.12	54	-4.88	-	-	115	305	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

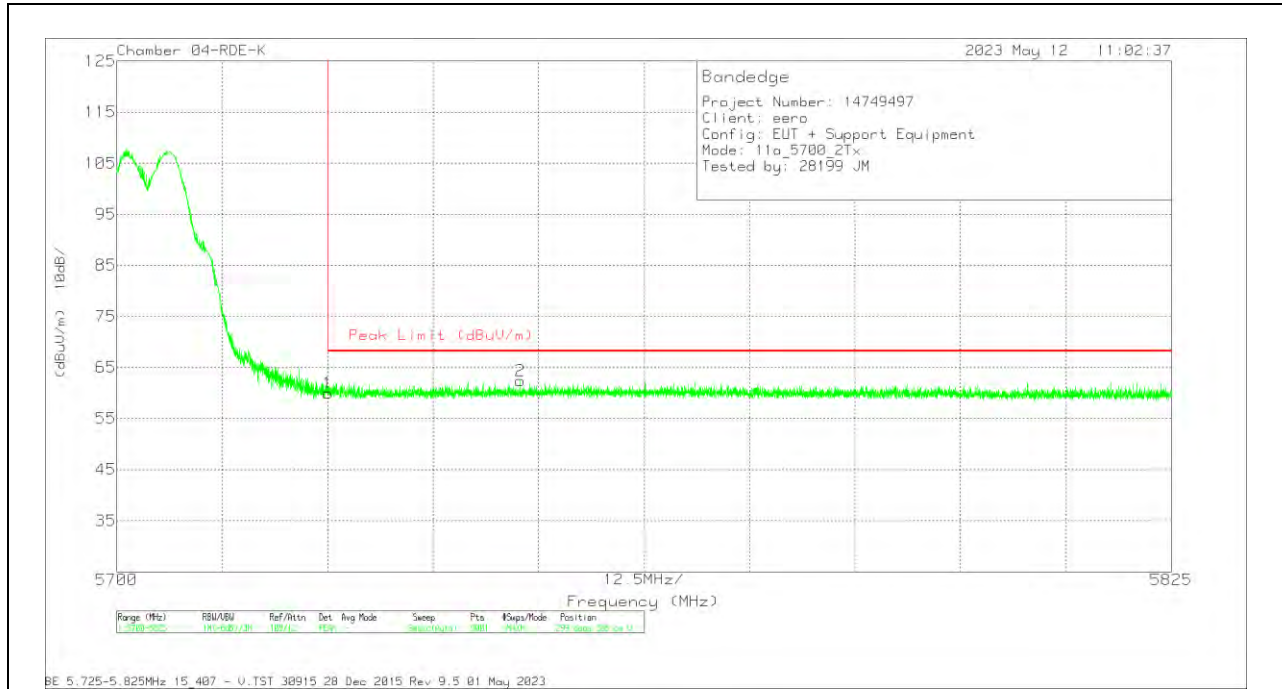


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	35.72	Pk	34.7	-6.7	63.72	68.2	-4.48	10	364	H
2	5725.639	36.64	Pk	34.7	-6.7	64.64	68.2	-3.56	10	364	H

Pk - Peak detector

### VERTICAL RESULT



### Trace Markers

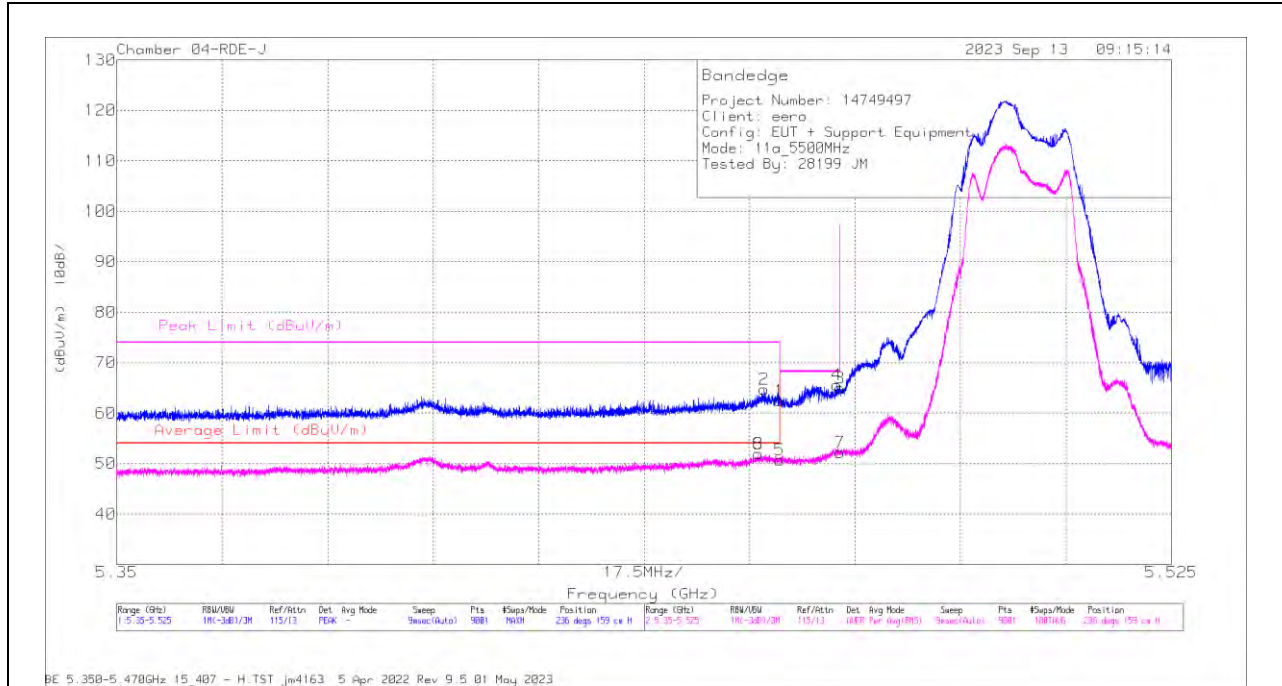
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	31.91	Pk	34.7	-6.7	59.91	68.2	-8.29	299	306	V
2	5747.834	34.27	Pk	34.7	-6.6	62.37	68.2	-5.83	299	306	V

Pk - Peak detector

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

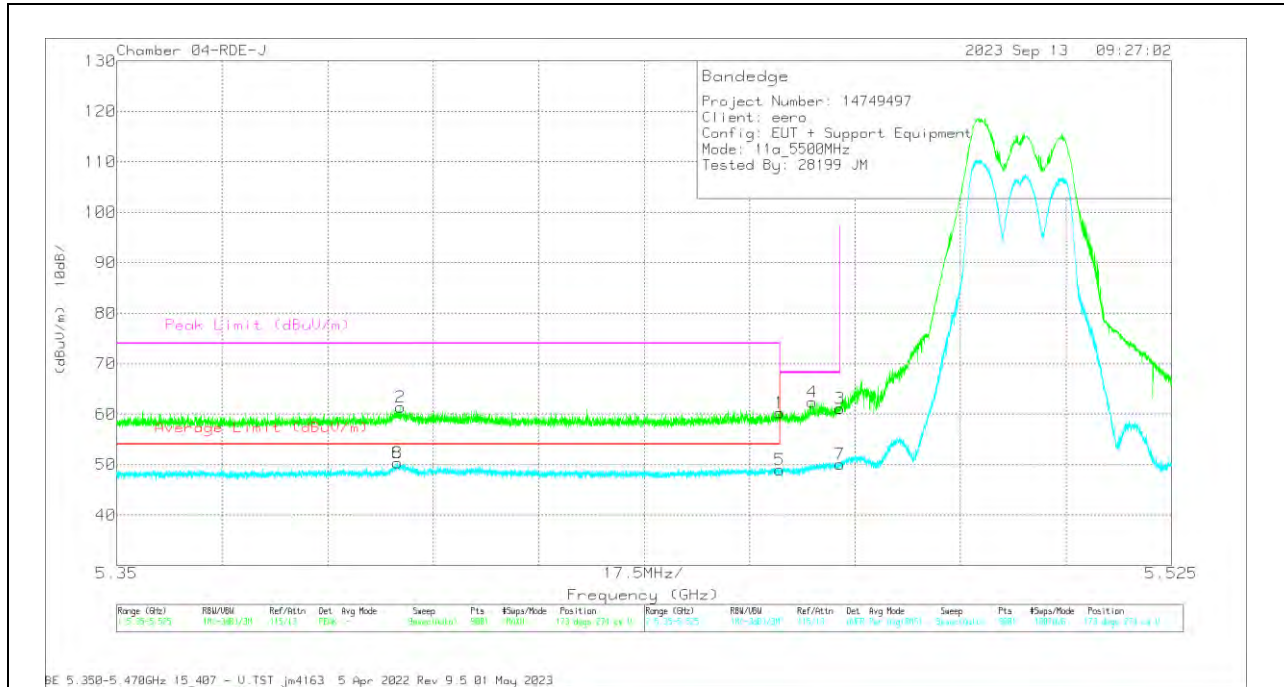
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.15	Pk	34.9	-13.5	62.55	-	-	68.2	-5.65	236	159	H
2	* 5.457409	43.35	Pk	34.9	-13.5	64.75	-	-	74	-9.25	236	159	H
3	5.47	43.63	Pk	34.8	-13.5	64.93	-	-	68.2	-3.27	236	159	H
4	5.469483	44.15	Pk	34.8	-13.4	65.55	-	-	68.2	-2.65	236	159	H
5	* 5.46	29.35	RMS	34.9	-13.5	50.75	54	-3.25	-	-	236	159	H
6	* 5.456436	30.61	RMS	34.9	-13.6	51.91	54	-2.09	-	-	236	159	H
7	5.47	30.91	RMS	34.8	-13.5	52.21	-	-	-	-	236	159	H
8	* 5.456436	30.61	RMS	34.9	-13.6	51.91	54	-2.09	-	-	236	159	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	227141 ACF 3m (dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.99	Pk	34.9	-13.5	0	60.29	-	-	68.2	-7.91	173	274	V
2	* 5.397093	39.73	Pk	35	-13.4	0	61.33	-	-	74	-12.67	173	274	V
3	5.47	39.8	Pk	34.8	-13.5	0	61.1	-	-	68.2	-7.1	173	274	V
4	5.465439	40.95	Pk	34.9	-13.5	0	62.35	-	-	68.2	-5.85	173	274	V
5	* 5.46	26.96	RMS	34.9	-13.5	.59	48.95	54	-5.05	-	-	173	274	V
6	* 5.396549	28.1	RMS	35	-13.4	.59	50.29	54	-3.71	-	-	173	274	V
7	5.47	28.13	RMS	34.8	-13.5	.59	50.02	-	-	-	-	173	274	V
8	* 5.396549	28.1	RMS	35	-13.4	.59	50.29	54	-3.71	-	-	173	274	V

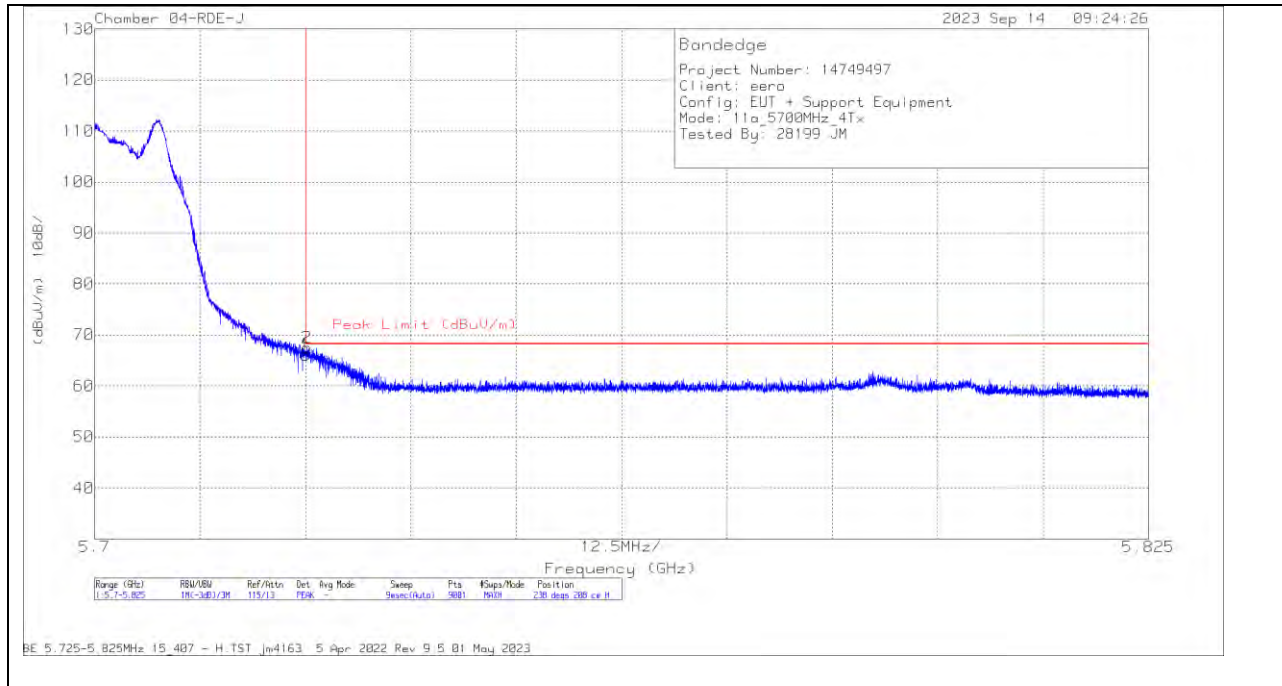
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



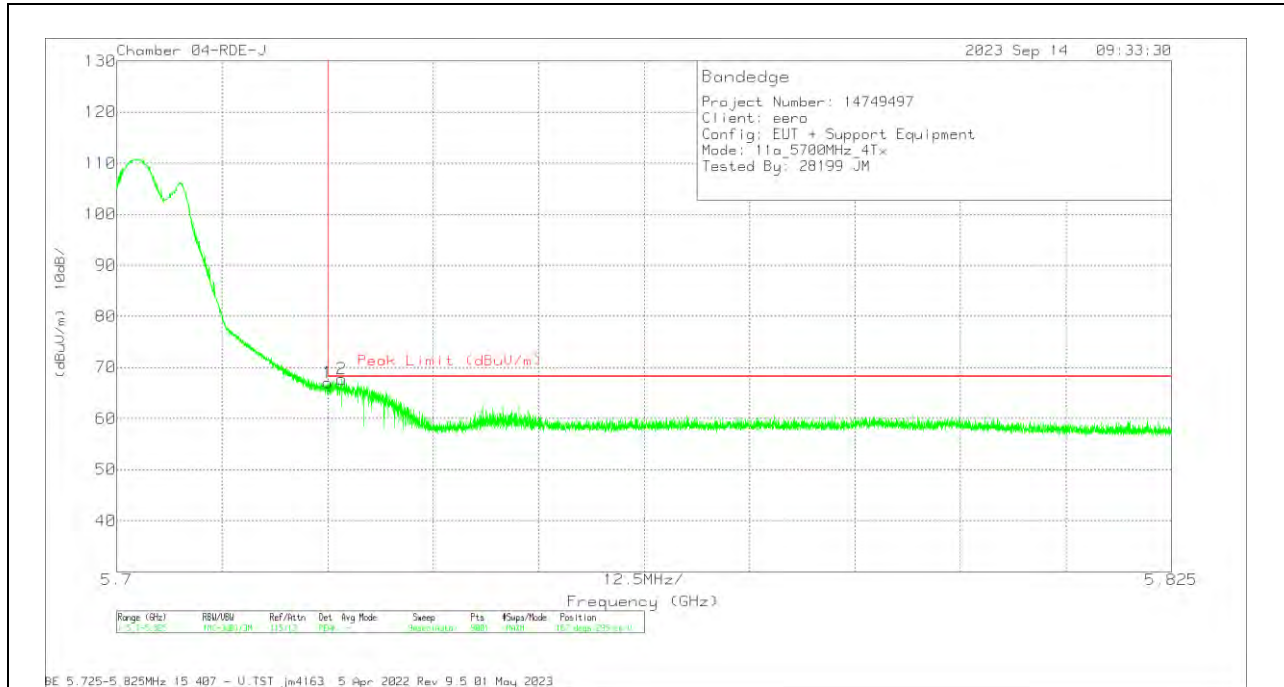
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	44.45	Pk	34.7	-13.1	66.05	68.2	-2.15	238	208	H
2	5.725167	45.89	Pk	34.7	-13.1	67.49	68.2	-7.1	238	208	H

Pk - Peak detector



### VERTICAL RESULT



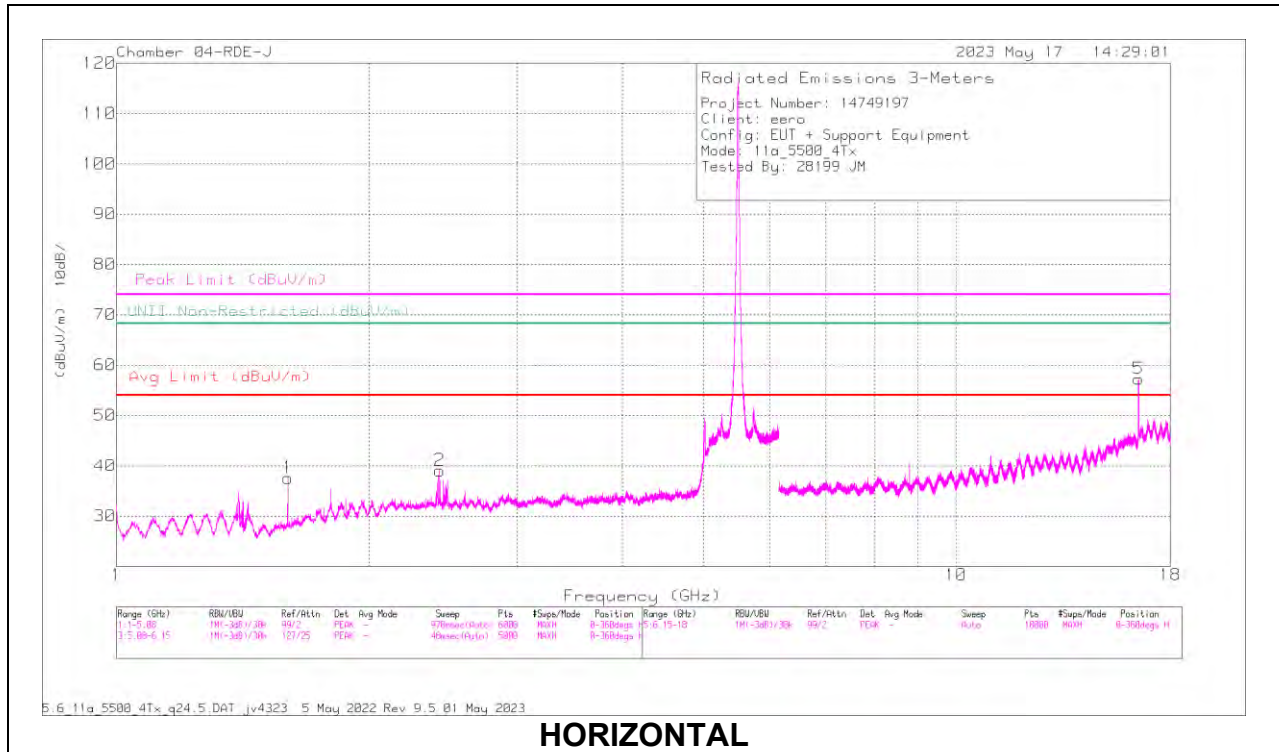
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.45	Pk	34.7	-13.1	67.05	68.2	-1.15	167	295	V
2	5.726625	46.01	Pk	34.7	-13	67.71	68.2	-49	167	295	V

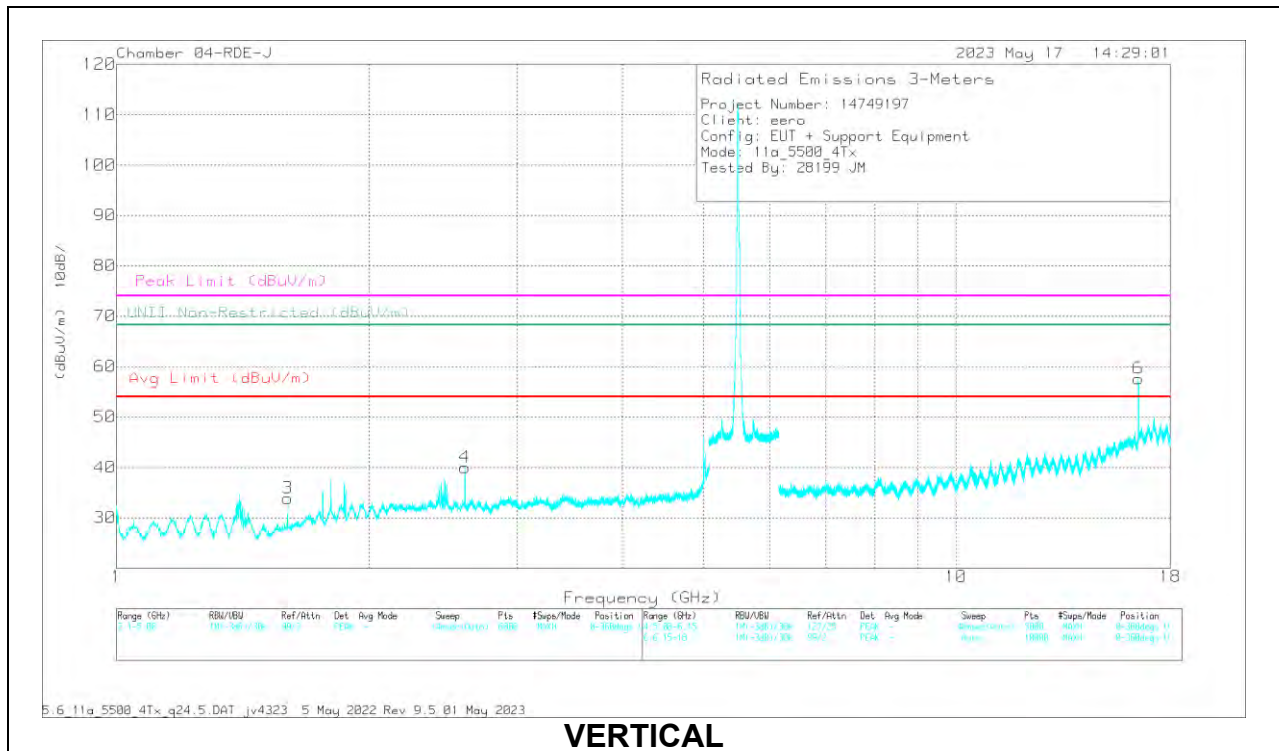
Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



**HORIZONTAL**



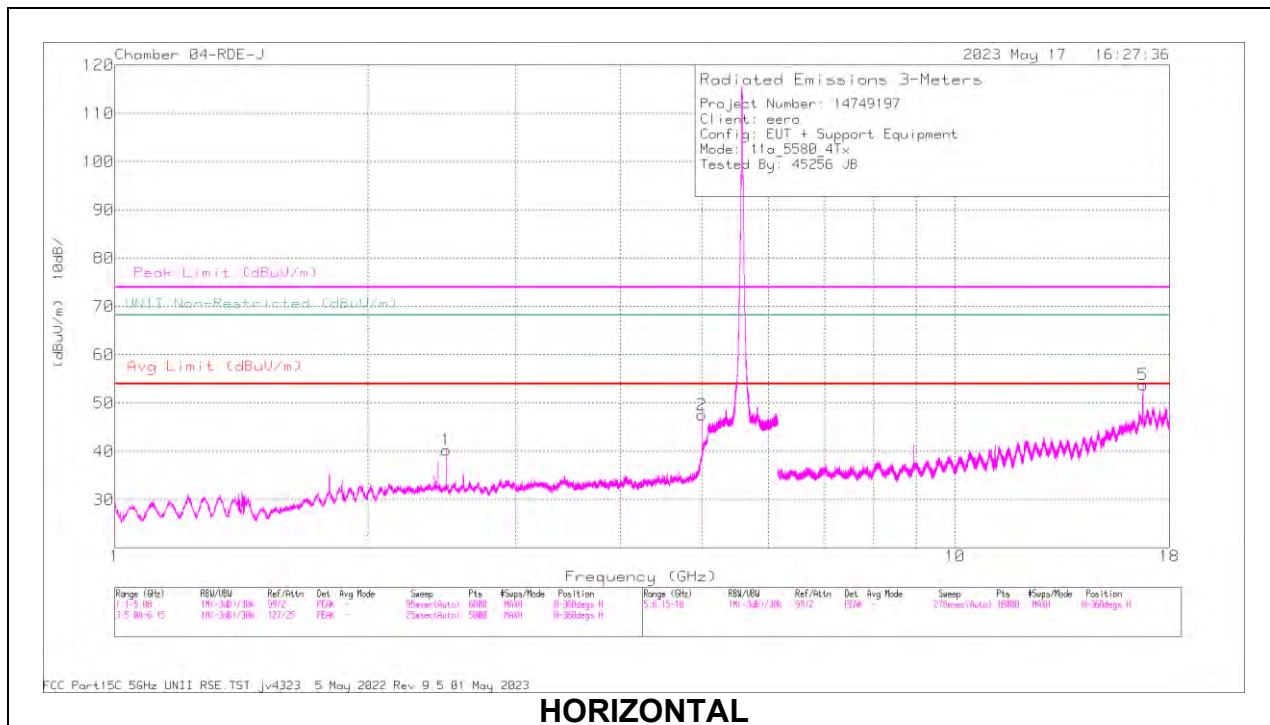
**VERTICAL**

**RADIATED EMISSIONS**

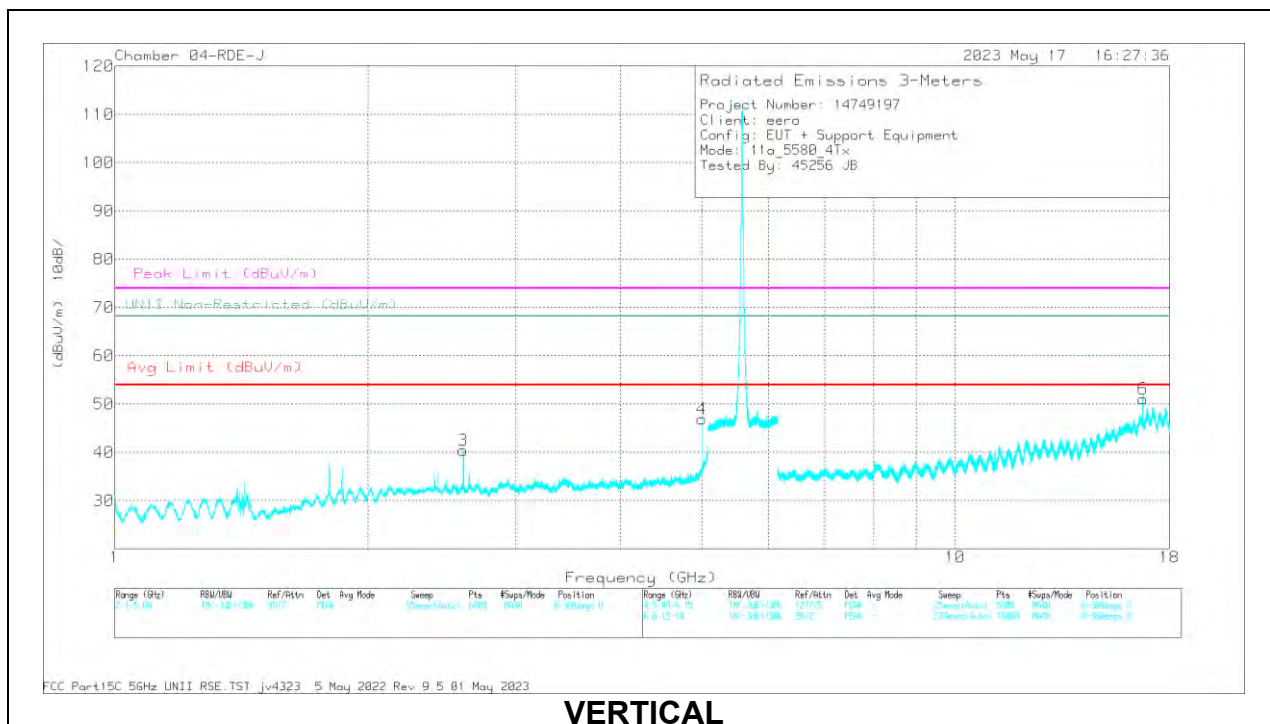
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cb/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.600014	62.27	PK-U	27.8	-43.1	46.97	-	-	74	-27.03	-	-	20	109	H
	* 1.597547	42.48	ADR	27.8	-42.9	27.38	54	-26.62	-	-	-	-	20	109	H
2	2.426411	58.38	PK-U	32.1	-45.1	45.38	-	-	-	-	68.2	-22.82	116	149	H
3	* 1.599984	62.97	PK-U	27.8	-43.1	47.67	-	-	74	-26.33	-	-	316	389	V
	* 1.599317	42.86	ADR	27.8	-43	27.66	54	-26.34	-	-	-	-	316	389	V
4	2.599794	61.49	PK-U	32.3	-45.5	48.29	-	-	-	-	68.2	-19.91	51	226	V
5	16.486426	55.24	PK-U	41.9	-33.3	63.84	-	-	-	-	68.2	-4.36	341	198	H
6	16.501804	56.72	PK-U	41.9	-33.2	65.42	-	-	-	-	68.2	-2.78	175	111	V

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

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

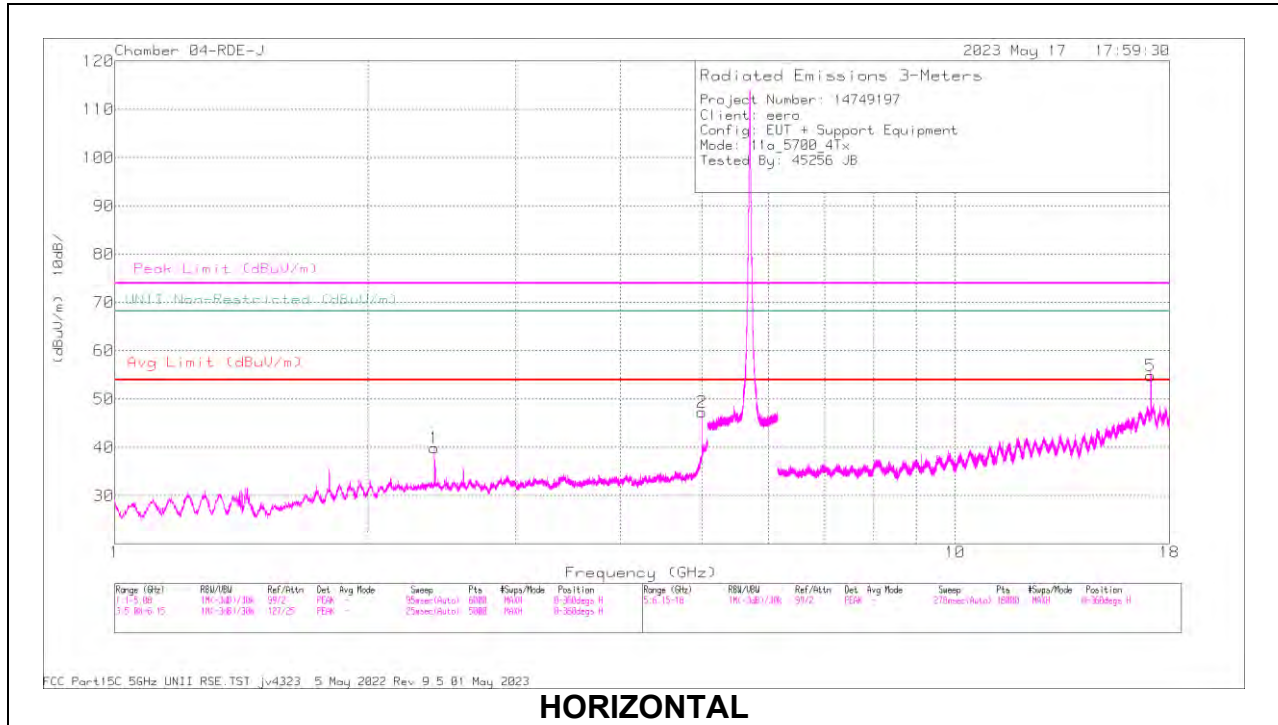
### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cb/Fitr (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	2.480238	58.72	PK-U	32.2	-45	45.92	-	-	-	-	68.2	-22.28	62	161	H
2	* 5.000048	62.25	PK-U	34.2	-43.1	53.35	-	-	74	-20.65	-	-	346	120	H
	* 5.000006	55.39	ADR	34.2	-43.1	46.49	54	-7.51	-	-	-	-	346	120	H
3	2.599775	59.34	PK-U	32.3	-45.5	46.14	-	-	-	-	68.2	-22.06	355	201	V
4	* 4.999902	60.91	PK-U	34.2	-43.1	52.01	-	-	74	-21.99	-	-	338	177	V
	* 5.000035	56.39	ADR	34.2	-43.1	47.49	54	-6.51	-	-	-	-	338	177	V
5	16.74152	57.03	PK-U	42.3	-35	64.33	-	-	-	-	68.2	-3.87	124	196	H
6	16.746603	57.06	PK-U	42.3	-35	64.36	-	-	-	-	68.2	-3.84	190	171	V

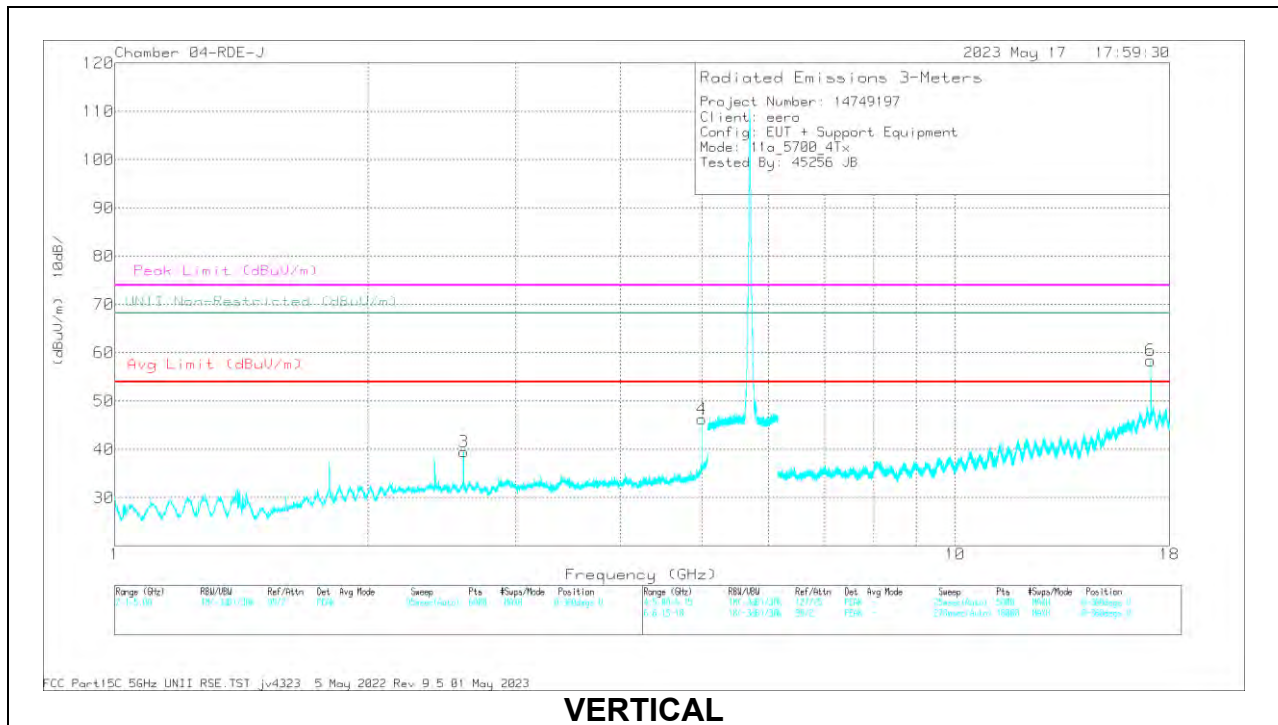
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

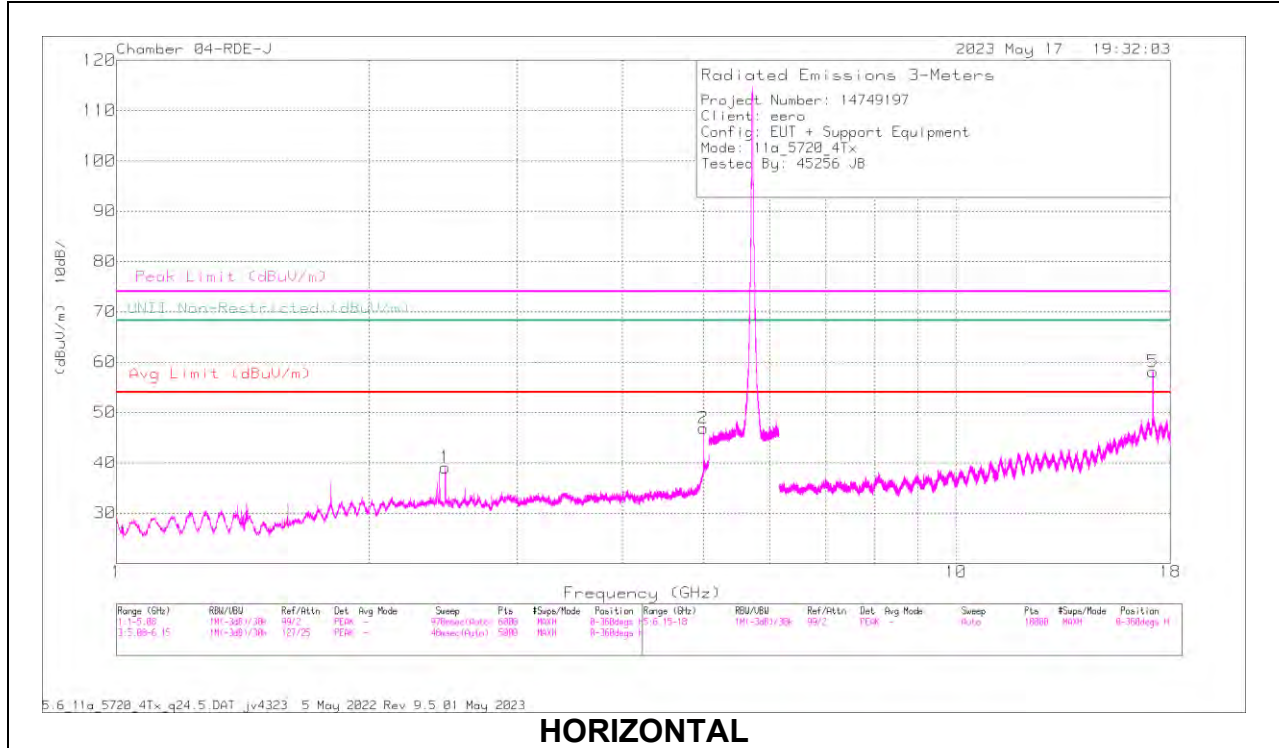


### RADIATED EMISSIONS

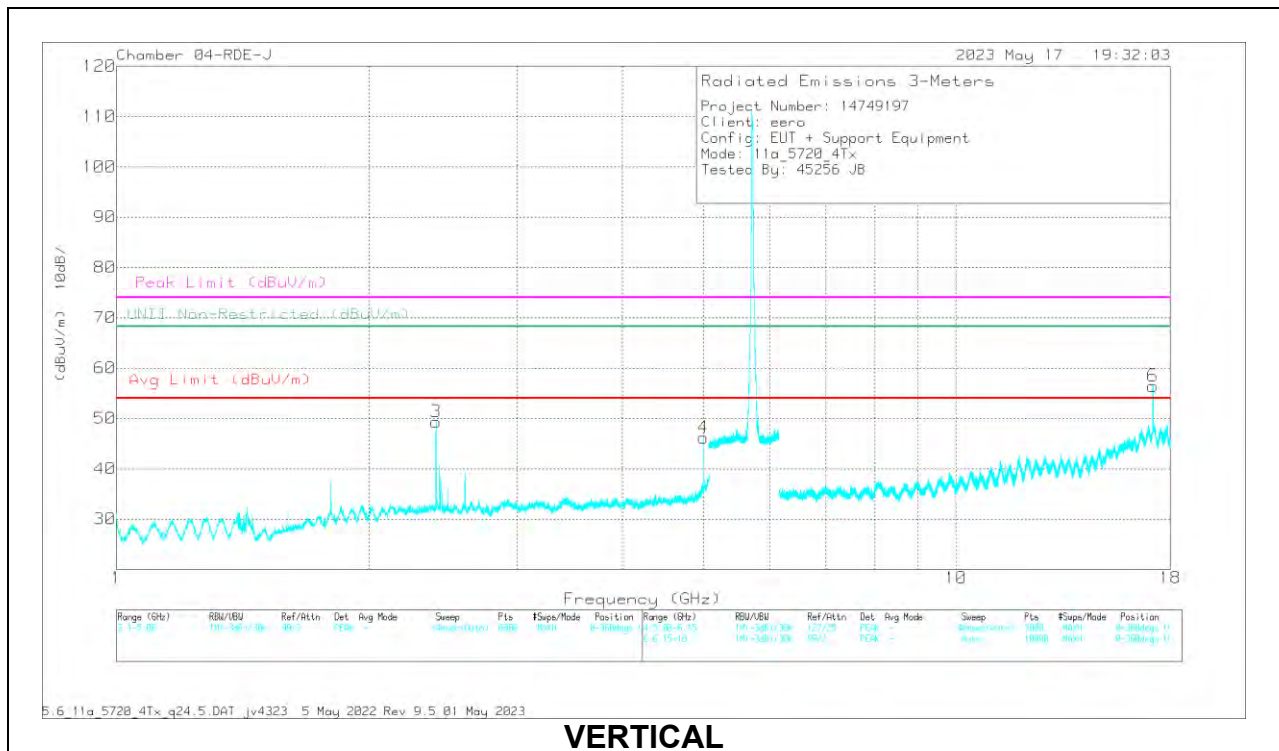
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cb/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.402289	59.42	PK-U	32	-45.3	46.12	-	-	-	-	68.2	-22.08	7	245	H
2	* 5.000073	61.57	PK-U	34.2	-43.1	52.67	-	-	74	-21.33	-	-	344	157	H
	* 5.000048	54.7	ADR	34.2	-43.1	45.8	54	-8.2	-	-	-	-	344	157	H
3	2.599811	60.15	PK-U	32.3	-45.5	46.95	-	-	-	-	68.2	-21.25	4	202	V
4	* 5	61.15	PK-U	34.2	-43.1	52.25	-	-	74	-21.75	-	-	335	177	V
	* 5.000019	56.74	ADR	34.2	-43.1	47.84	54	-6.16	-	-	-	-	335	177	V
5	17.101278	57.96	PK-U	42.2	-33.9	66.26	-	-	-	-	68.2	-1.94	342	127	H
6	17.099251	57.57	PK-U	42.2	-33.9	65.87	-	-	-	-	68.2	-2.33	168	189	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

### CHANNEL 144 RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cb/Fitr (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	2.462822	57.47	PK-U	32.2	-45	44.67	-	-	-	-	68.2	-23.53	351	195	H
2	* 5.000048	61.46	PK-U	34.2	-43.1	52.56	-	-	74	-21.44	-	-	346	148	H
	* 5.000042	54.79	ADR	34.2	-43.1	45.89	54	-8.11	-	-	-	-	346	148	H
3	2.401873	60.64	PK-U	32	-45.3	47.34	-	-	-	-	68.2	-20.86	102	335	V
4	* 5.000155	61.42	PK-U	34.2	-43.1	52.52	-	-	74	-21.48	-	-	335	177	V
	* 5.000027	56.94	ADR	34.2	-43.1	48.04	54	-5.96	-	-	-	-	335	177	V
5	17.161328	58.16	PK-U	42.1	-33.3	66.96	-	-	-	-	68.2	-1.24	174	115	H
6	17.161154	57.89	PK-U	42.1	-33.3	66.69	-	-	-	-	68.2	-1.51	148	133	V

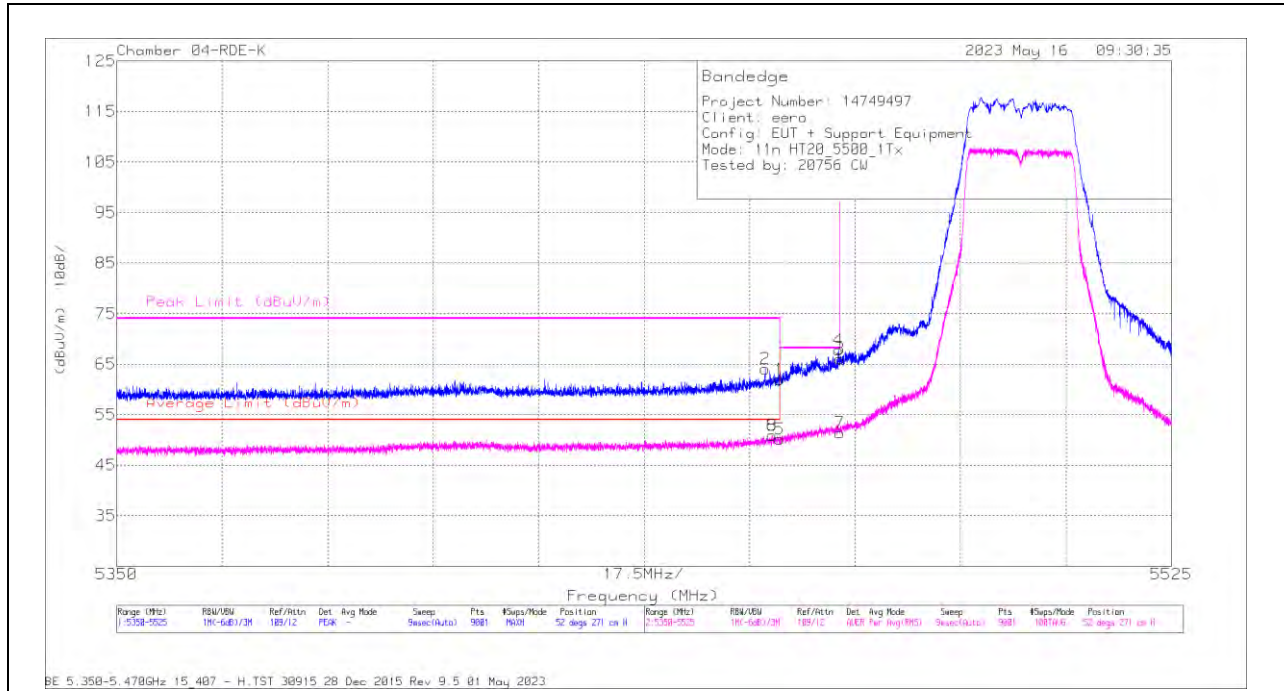
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

### 10.1.7. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

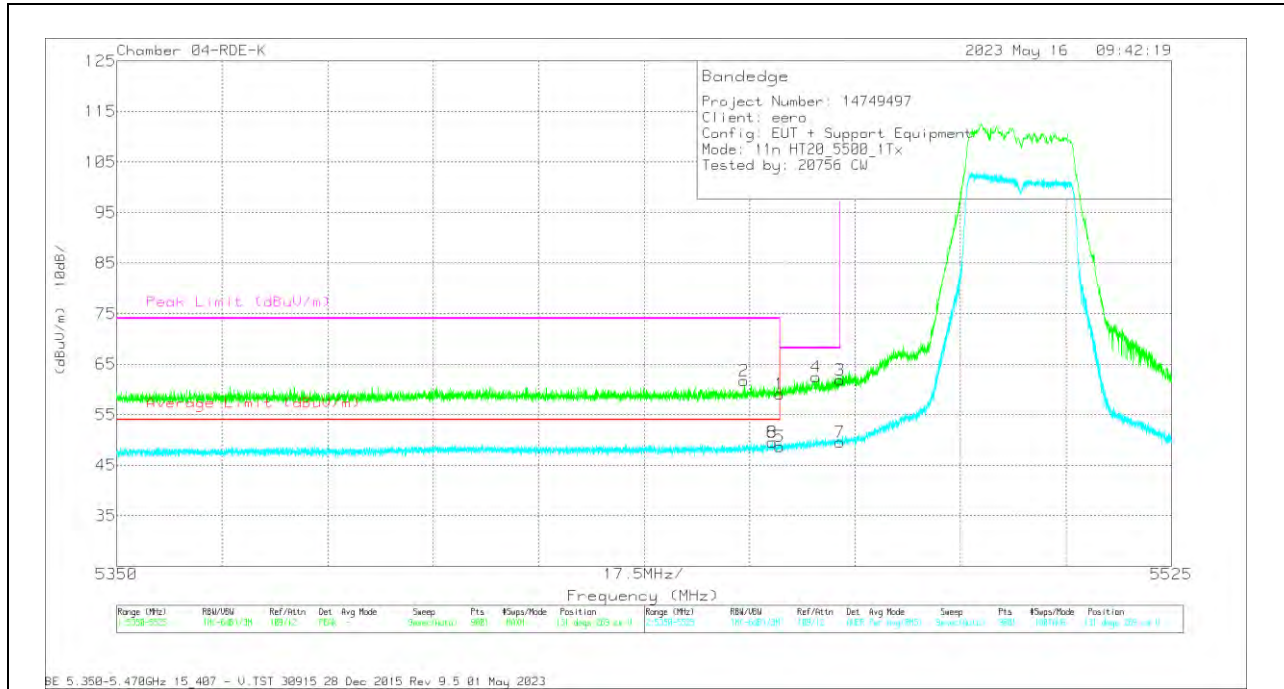
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	34.72	Pk	34.6	-7.4	61.92	-	-	68.2	-6.28	52	271	H
2	* 5457.564	36.83	Pk	34.6	-7.4	64.03	-	-	74	-9.97	52	271	H
3	5470	38.74	Pk	34.6	-7.3	66.04	-	-	68.2	-2.16	52	271	H
4	5469.736	40.47	Pk	34.6	-7.3	67.77	-	-	68.2	-4.3	52	271	H
5	* 5460	22.92	RMS	34.6	-7.4	50.12	54	-3.88	-	-	52	271	H
6	* 5458.711	23.77	RMS	34.6	-7.5	50.87	54	-3.13	-	-	52	271	H
7	5470	24.1	RMS	34.6	-7.3	51.4	-	-	-	-	52	271	H
8	* 5458.711	23.77	RMS	34.6	-7.5	50.87	54	-3.13	-	-	52	271	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



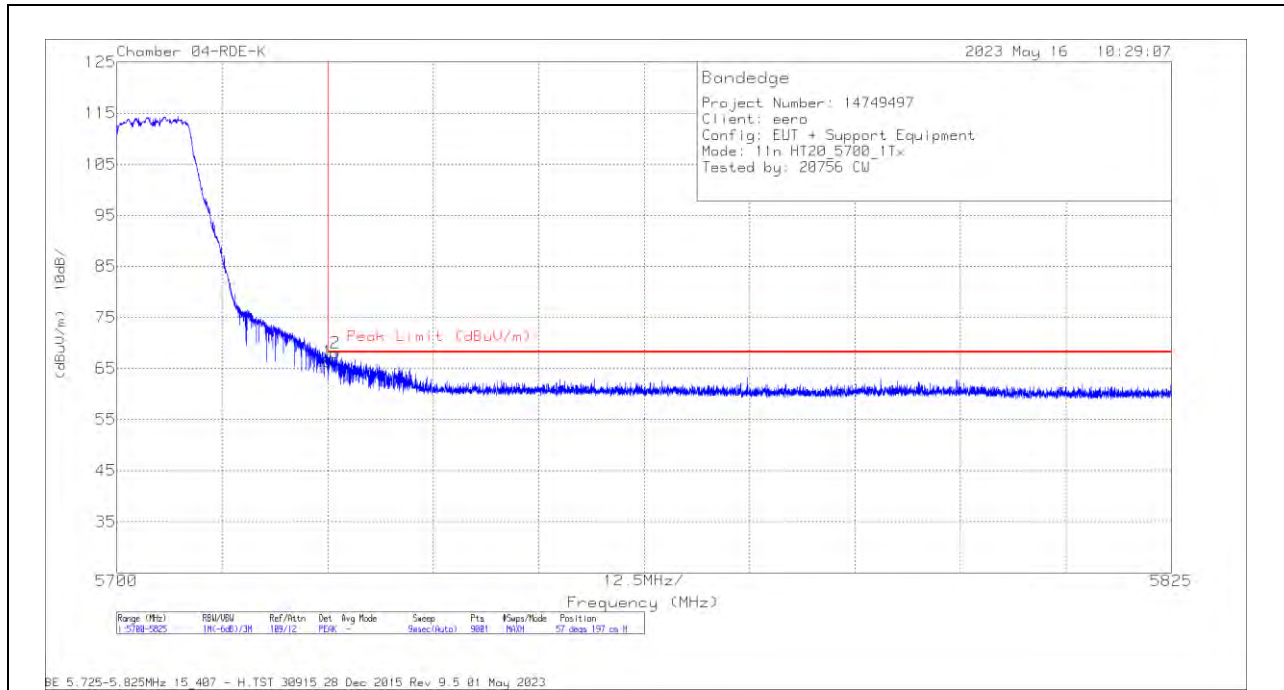
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	31.9	Pk	34.6	-7.4	59.1	-	-	68.2	-9.1	131	269	V
2	* 5454.084	34.5	Pk	34.6	-7.4	61.7	-	-	74	-12.3	131	269	V
3	5470	34.49	Pk	34.6	-7.3	61.79	-	-	68.2	-6.41	131	269	V
4	5466.022	35.19	Pk	34.6	-7.3	62.49	-	-	68.2	-5.71	131	269	V
5	* 5460	21.49	RMS	34.6	-7.4	48.69	54	-5.31	-	-	131	269	V
6	* 5458.731	22.45	RMS	34.6	-7.5	49.55	54	-4.45	-	-	131	269	V
7	5470	22.27	RMS	34.6	-7.3	49.57	-	-	-	-	131	269	V
8	* 5458.731	22.45	RMS	34.6	-7.5	49.55	54	-4.45	-	-	131	269	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



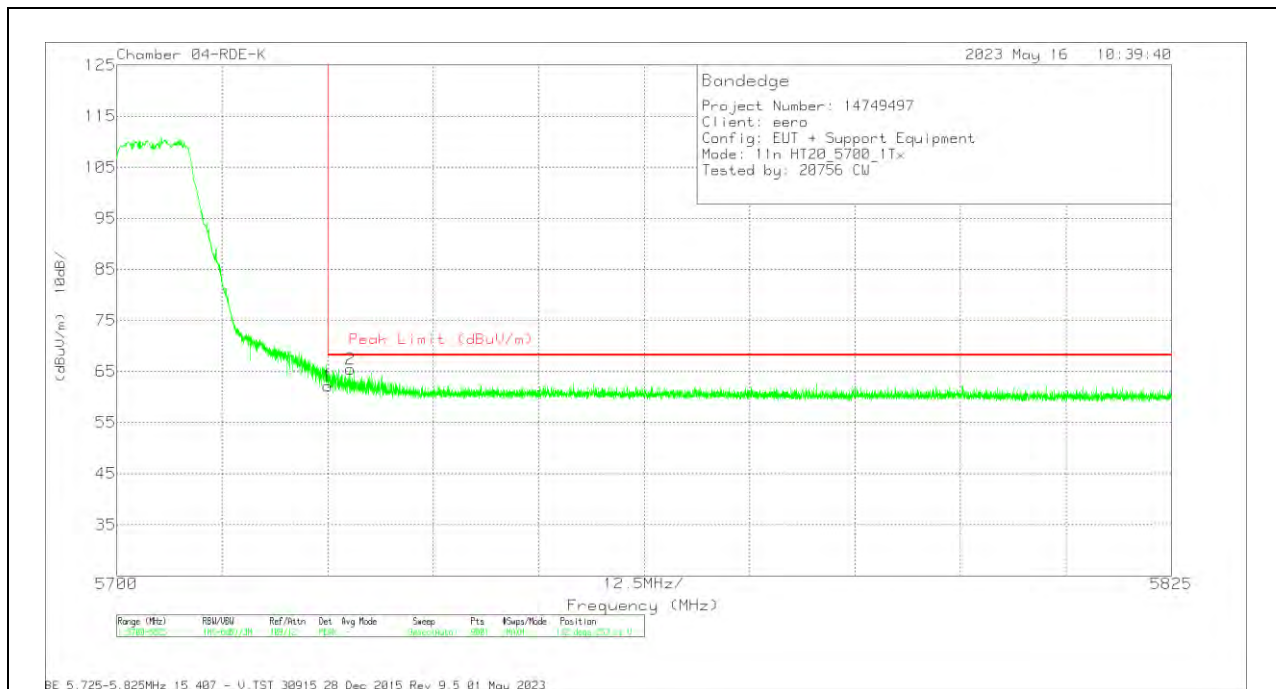
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	38.31	Pk	34.7	-6.7	66.31	68.2	-1.89	57	197	H
2	5725.903	40.1	Pk	34.7	-6.7	68.1	68.2	-.1	57	197	H

Pk - Peak detector



### VERTICAL RESULT



### Trace Markers

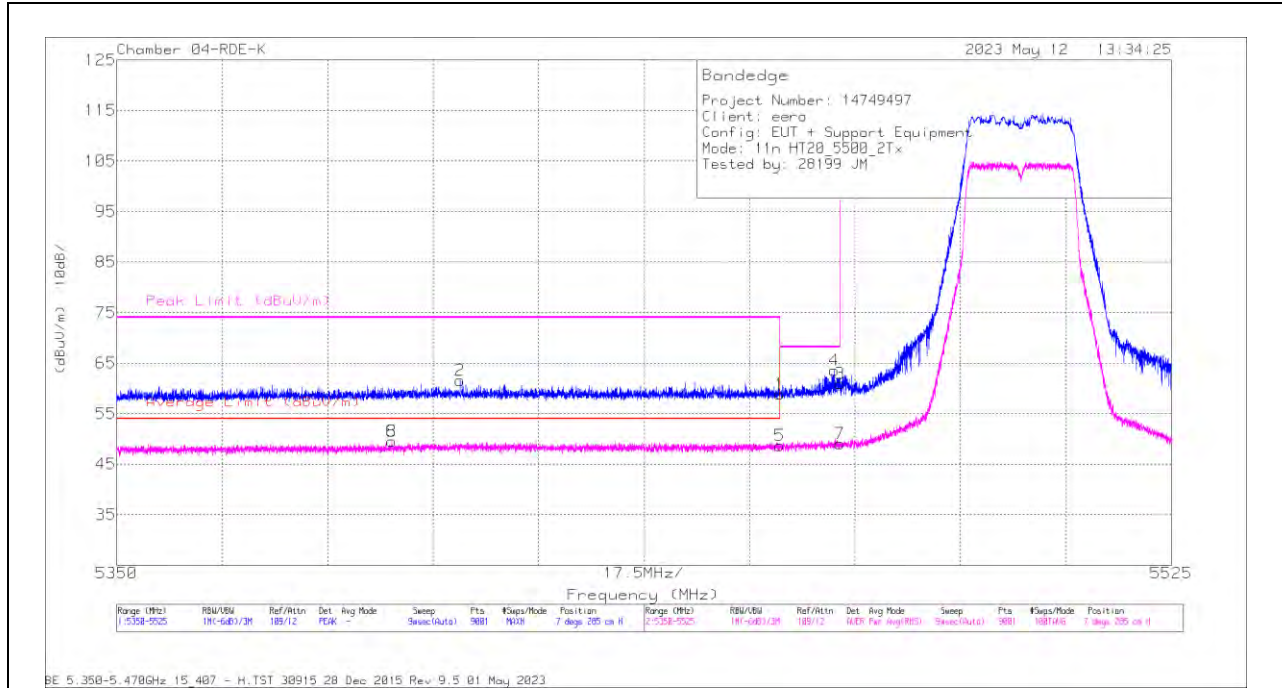
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	34.19	Pk	34.7	-6.7	62.19	68.2	-6.01	132	253	V
2	5727.709	37.6	Pk	34.7	-6.8	65.5	68.2	-2.7	132	253	V

Pk - Peak detector

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

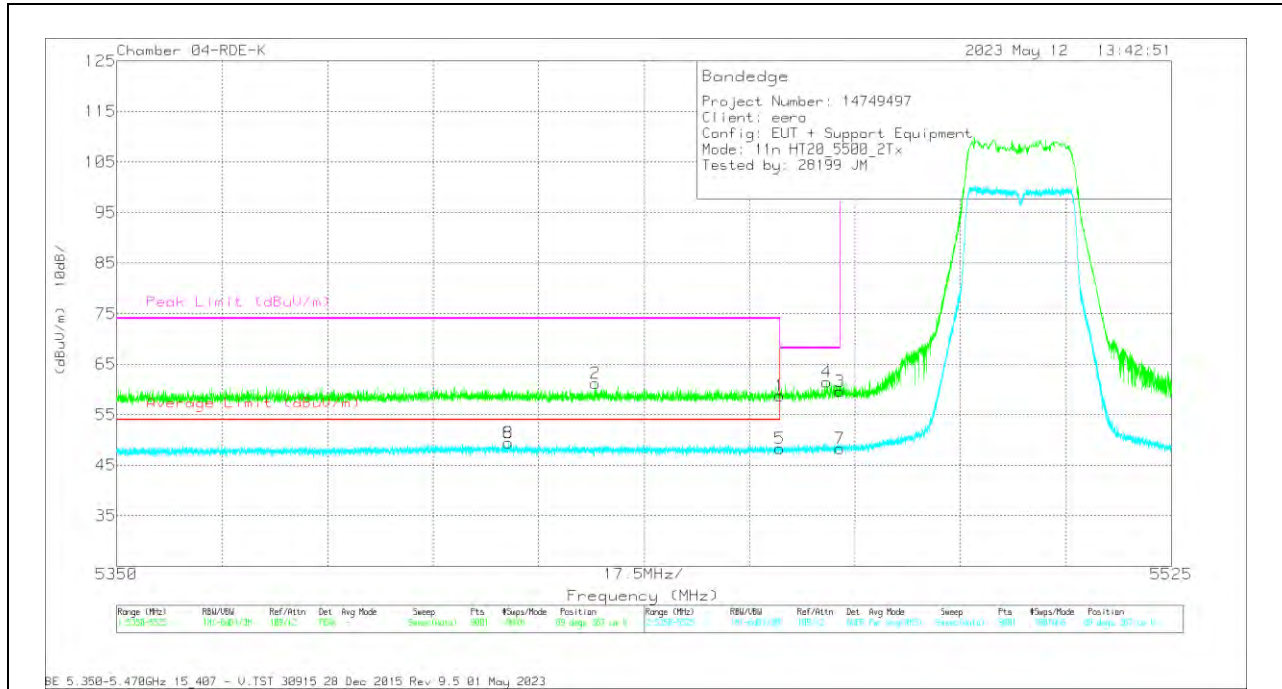


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	31.6	Pk	34.6	-7.4	58.8	-	-	68.2	-9.4	7	285	H
2	* 5406.971	34.33	Pk	34.6	-7.3	61.63	-	-	74	-12.37	7	285	H
3	5470	33.72	Pk	34.6	-7.3	61.02	-	-	68.2	-7.18	7	285	H
4	5469.075	36.25	Pk	34.6	-7.3	63.55	-	-	68.2	-4.65	7	285	H
5	* 5460	21.44	RMS	34.6	-7.4	48.64	54	-5.36	-	-	7	285	H
6	* 5395.635	22.46	RMS	34.6	-7.5	49.56	54	-4.44	-	-	7	285	H
7	5470	21.74	RMS	34.6	-7.3	49.04	-	-	-	-	7	285	H
8	* 5395.635	22.46	RMS	34.6	-7.5	49.56	54	-4.44	-	-	7	285	H

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

### VERTICAL RESULT



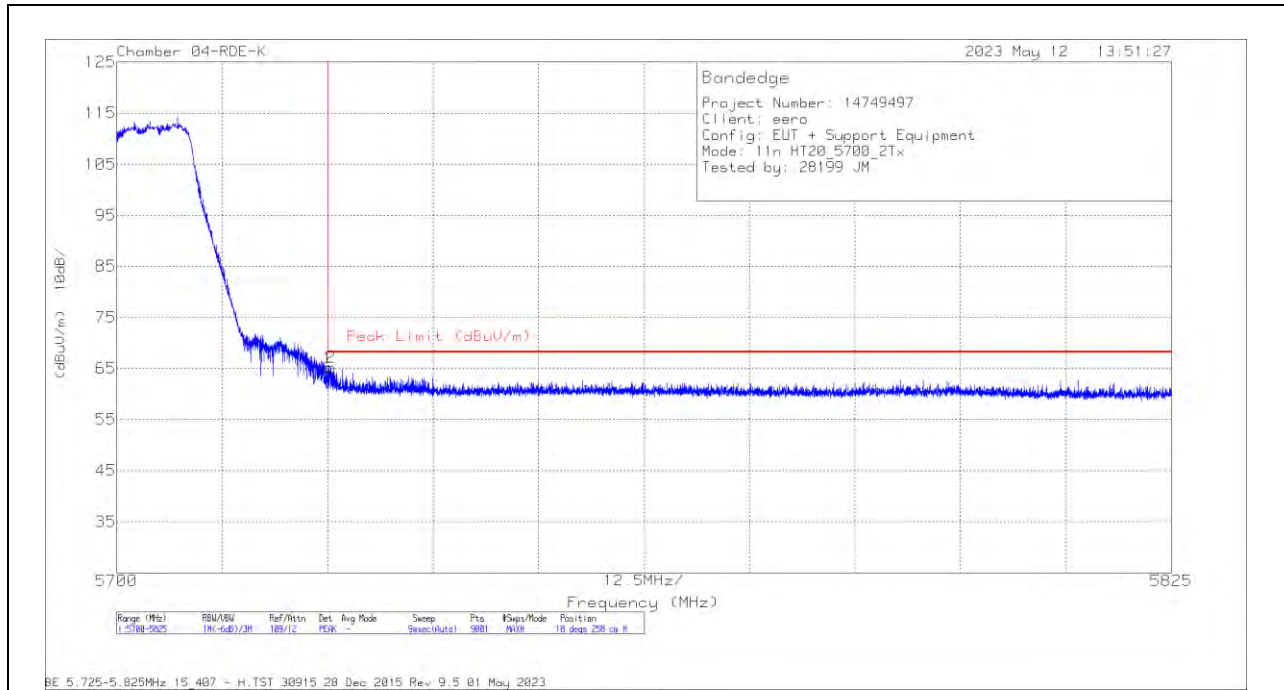
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	31.49	Pk	34.6	-7.4	58.69	-	-	68.2	-9.51	89	367	V
2	* 5429.39	34.04	Pk	34.6	-7.4	61.24	-	-	74	-12.76	89	367	V
3	5470	32.28	Pk	34.6	-7.3	59.58	-	-	68.2	-8.62	89	367	V
4	5467.811	34.16	Pk	34.6	-7.3	61.46	-	-	68.2	-6.74	89	367	V
5	* 5460	21.13	RMS	34.6	-7.4	48.33	54	-5.67	-	-	89	367	V
6	* 5415.001	22.08	RMS	34.6	-7.3	49.38	54	-4.62	-	-	89	367	V
7	5470	21.05	RMS	34.6	-7.3	48.35	-	-	-	-	89	367	V
8	* 5415.001	22.08	RMS	34.6	-7.3	49.38	54	-4.62	-	-	89	367	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

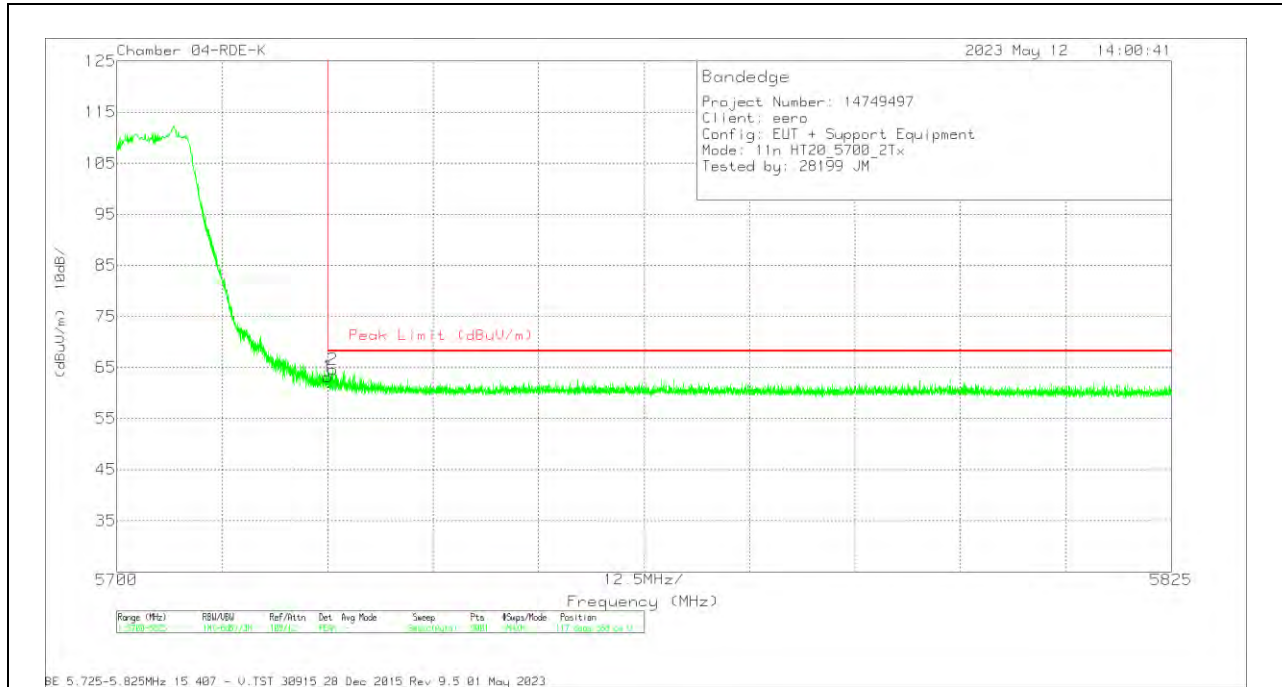


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	37.09	Pk	34.7	-6.7	65.09	68.2	-3.11	18	258	H
2	5725.361	37.26	Pk	34.7	-6.7	65.26	68.2	-2.94	18	258	H

Pk - Peak detector

### VERTICAL RESULT



### Trace Markers

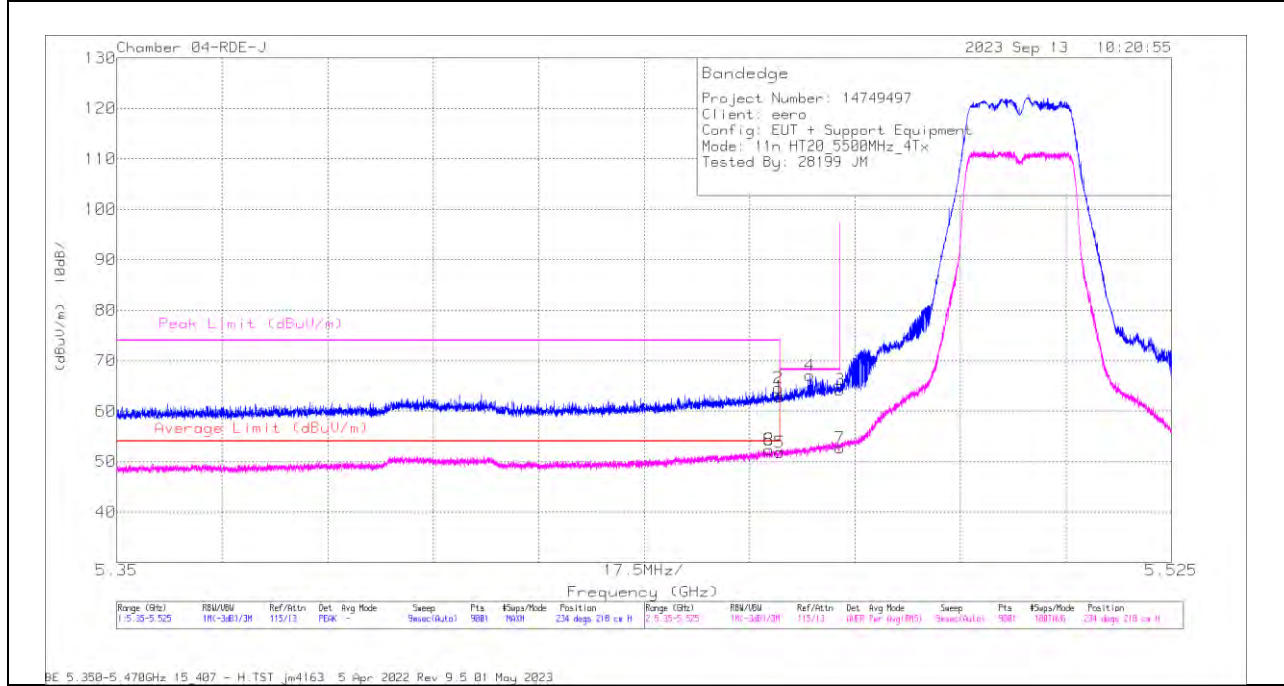
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	35.2	Pk	34.7	-6.7	63.2	68.2	-5	117	368	V
2	5725.584	36.57	Pk	34.7	-6.7	64.57	68.2	-3.63	117	368	V

Pk - Peak detector

**4TX Antenna 6 + Antenna 4 + Antenna 9 + Antenna 1 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



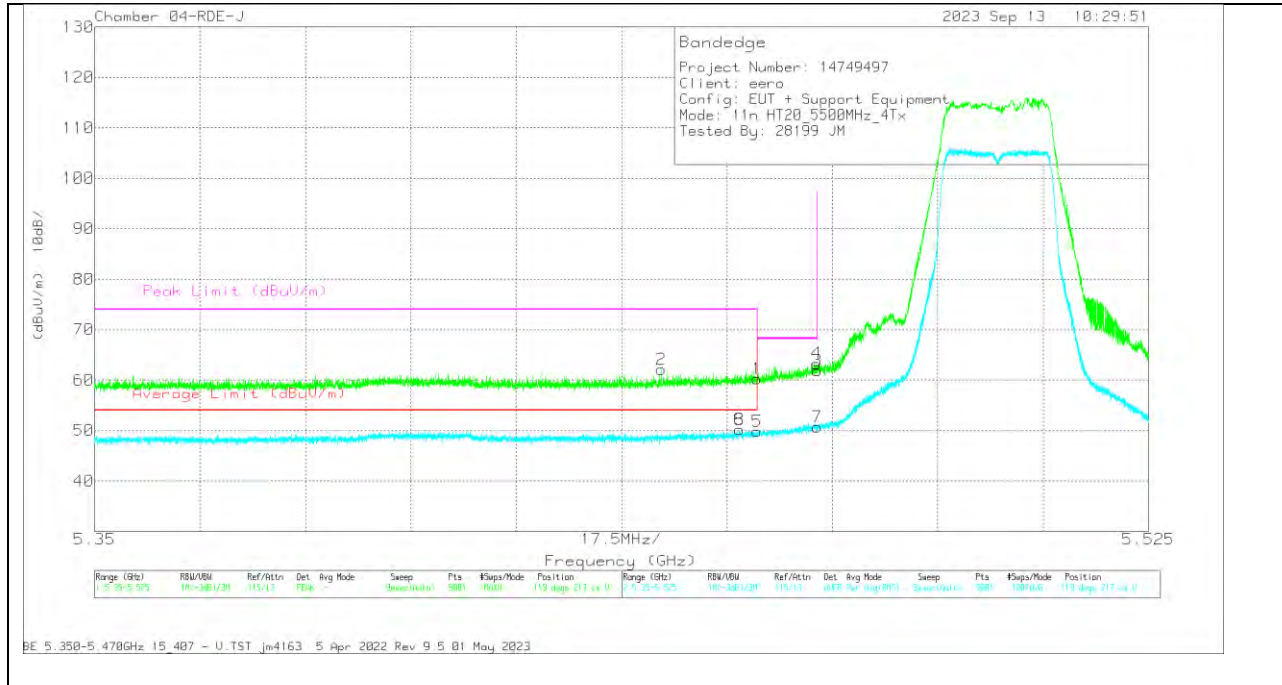
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.44	PK	34.9	-13.5	62.84	-	-	68.2	-5.36	234	218	H
2	* 5.459781	43.25	PK	34.9	-13.5	64.65	-	-	74	-9.35	234	218	H
3	5.47	42.9	PK	34.8	-13.5	64.2	-	-	68.2	-4	234	218	H
4	5.464992	45.69	PK	34.9	-13.5	67.09	-	-	68.2	-1.11	234	218	H
5	* 5.46	30.37	RMS	34.9	-13.5	51.77	54	-2.23	-	-	234	218	H
6	* 5.458284	31.07	RMS	34.9	-13.6	52.37	54	-1.63	-	-	234	218	H
7	5.47	31.4	RMS	34.8	-13.5	52.7	-	-	-	-	234	218	H
8	* 5.458284	31.07	RMS	34.9	-13.6	52.37	54	-1.63	-	-	234	218	H

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



### VERTICAL RESULT



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dBm)	Cbl/Amp (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.84	Pk	34.9	-13.5	0	60.24	-	-	68.2	-7.96	119	217	V
2	* 5.44407	40.79	Pk	34.9	-13.6	0	62.09	-	-	74	-11.91	119	217	V
3	5.47	40.59	Pk	34.8	-13.5	0	61.89	-	-	68.2	-6.31	119	217	V
4	5.469892	42	Pk	34.8	-13.5	0	63.3	-	-	68.2	-4.9	119	217	V
5	* 5.46	27.88	RMS	34.9	-13.5	.59	49.87	54	-4.13	-	-	119	217	V
6	* 5.457098	28.19	RMS	34.9	-13.5	.59	50.18	54	-3.82	-	-	119	217	V
7	5.47	28.77	RMS	34.8	-13.5	.59	50.66	-	-	-	-	119	217	V
8	* 5.457098	28.19	RMS	34.9	-13.5	.59	50.18	54	-3.82	-	-	119	217	V

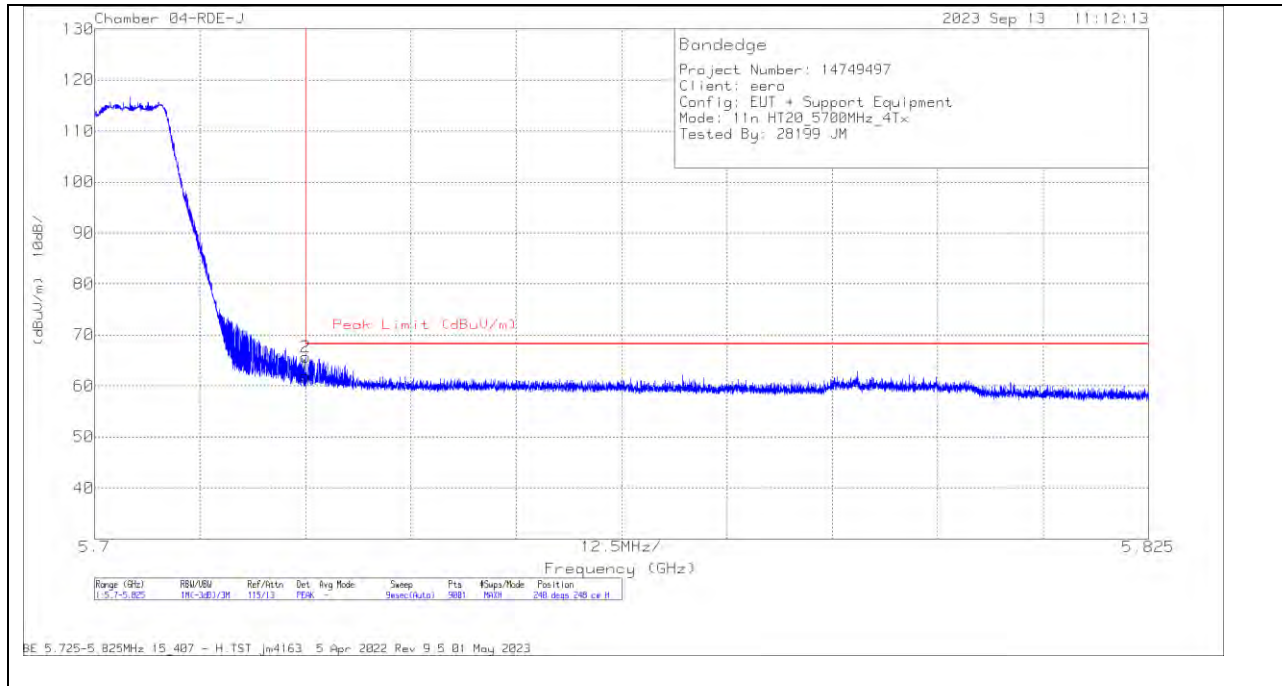
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

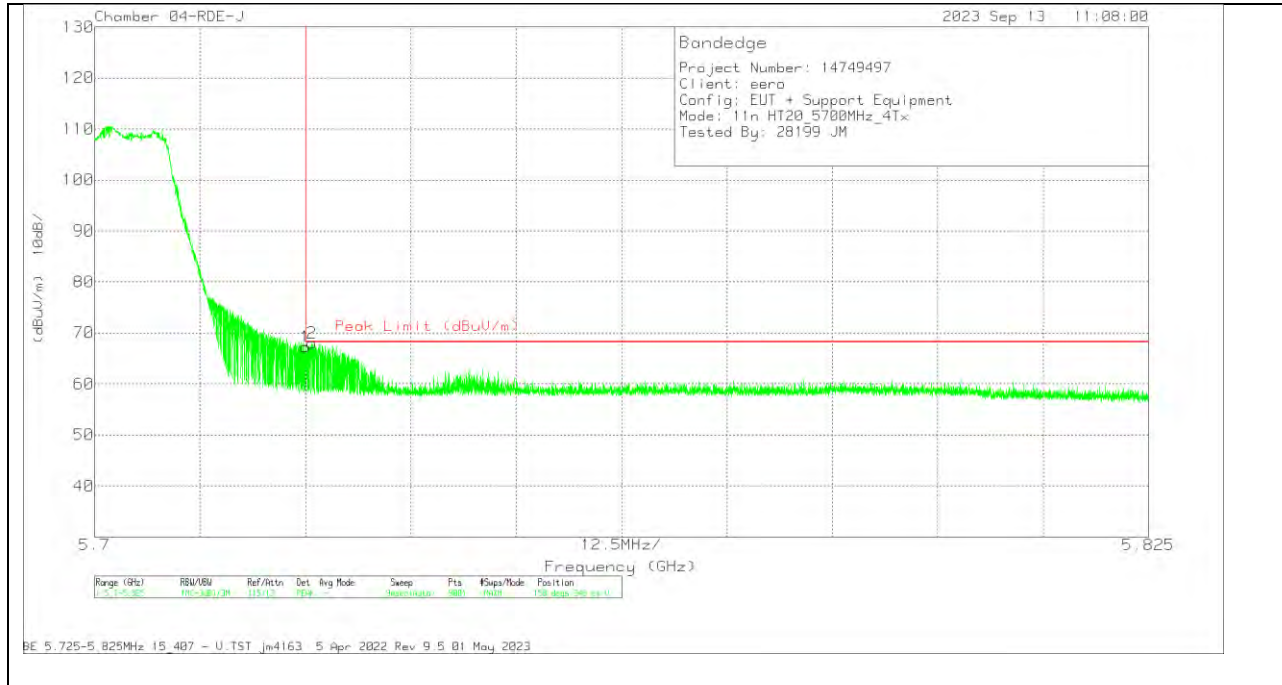


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.4	Pk	34.7	-13.1	62	68.2	-6.2	240	248	H
2	5.725042	44.07	Pk	34.7	-13.1	65.67	68.2	-2.53	240	248	H

Pk - Peak detector

### VERTICAL RESULT



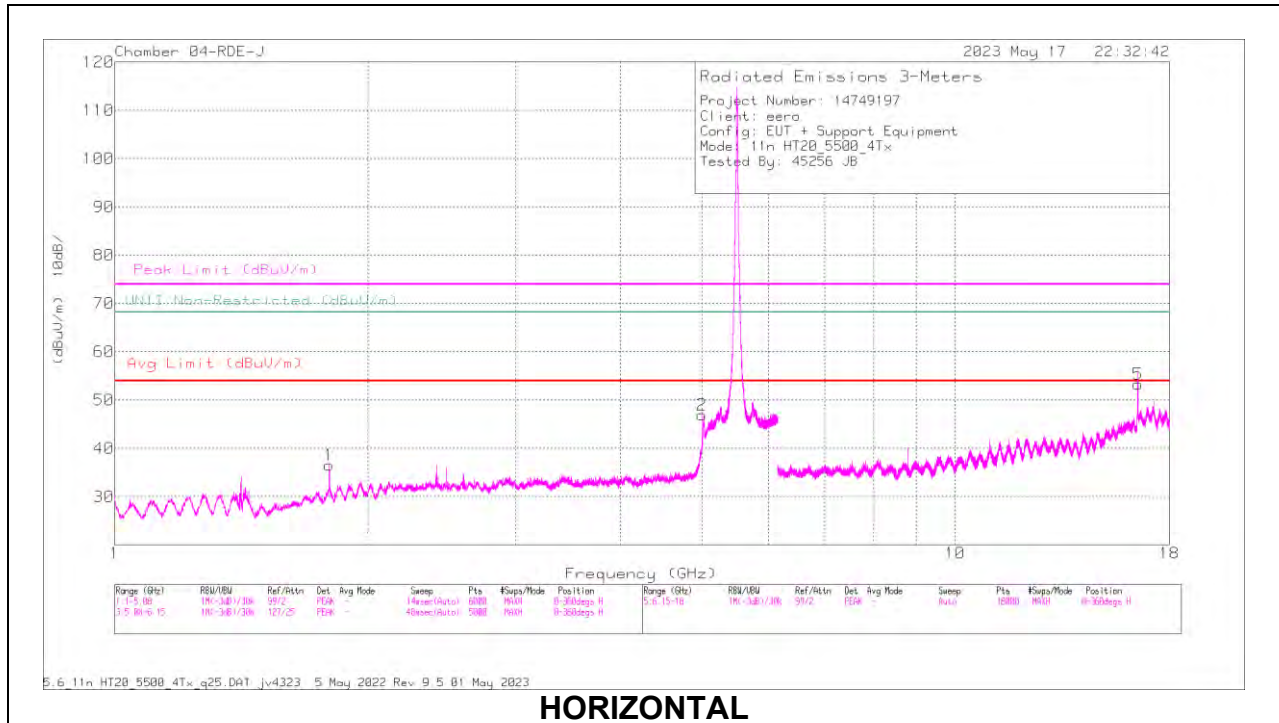
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.63	Pk	34.7	-13.1	67.23	68.2	-.97	158	346	V
2	5.72575	46.36	Pk	34.7	-13.1	67.96	68.2	-.24	158	346	V

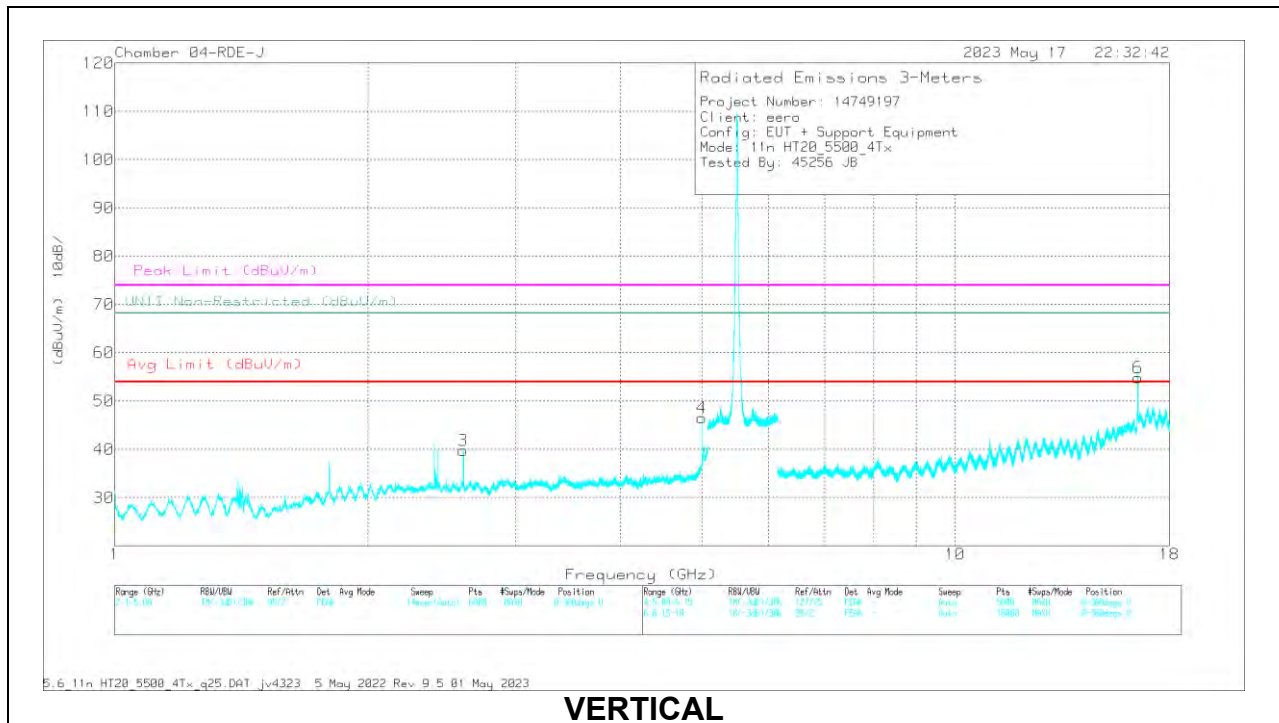
Pk - Peak detector

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

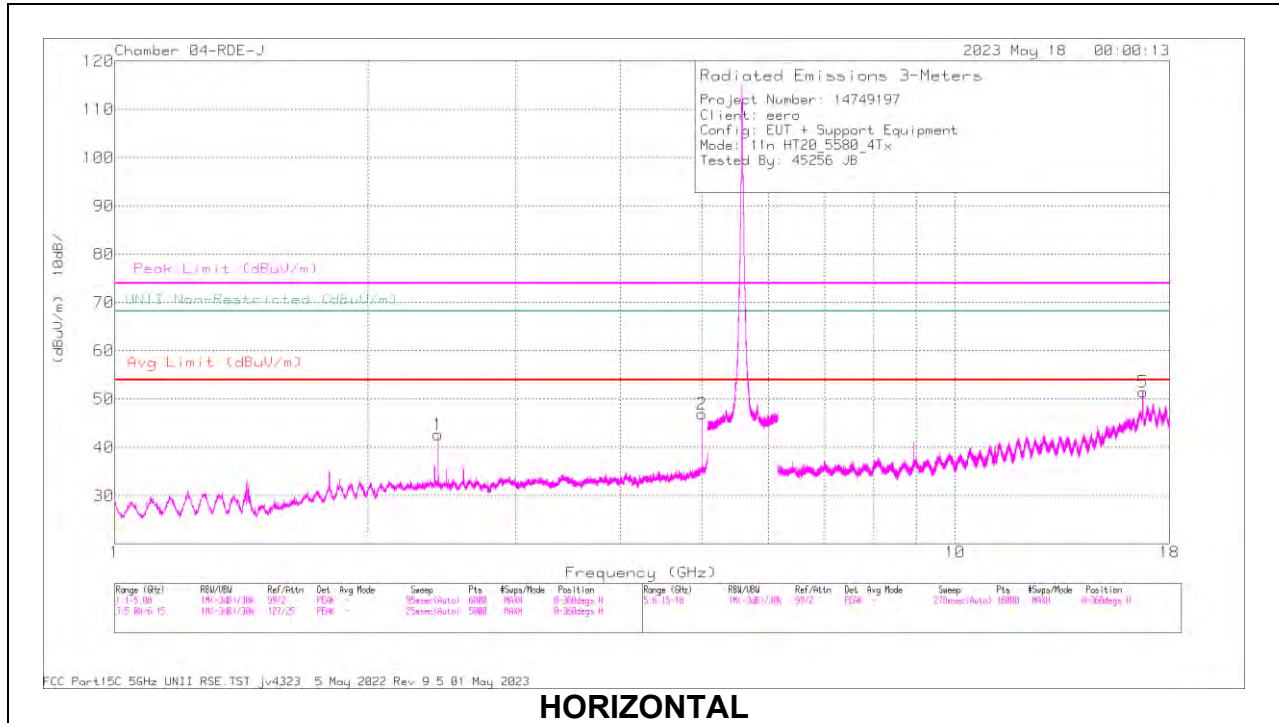
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Filtr (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	1.799893	60.81	PK-U	30.5	-43.9	47.41	-	-	-	-	68.2	-20.79	103	176	H
2	* 4.999919	62.74	PK-U	34.2	-43.1	53.84	-	-	74	-20.16	-	-	345	110	H
	* 5.000007	56.25	ADR	34.2	-43.1	47.35	54	-6.65	-	-	-	-	345	110	H
3	2.599868	59.21	PK-U	32.3	-45.5	46.01	-	-	-	-	68.2	-22.19	357	181	V
4	* 5.000158	61.33	PK-U	34.2	-43.1	52.43	-	-	74	-21.57	-	-	337	178	V
	* 5.00006	56.58	ADR	34.2	-43.1	47.68	54	-6.32	-	-	-	-	337	178	V
5	16.504501	56.08	PK-U	41.9	-33.3	64.68	-	-	-	-	68.2	-3.52	124	212	H
6	16.508185	57.13	PK-U	41.9	-33.5	65.53	-	-	-	-	68.2	-2.67	167	108	V

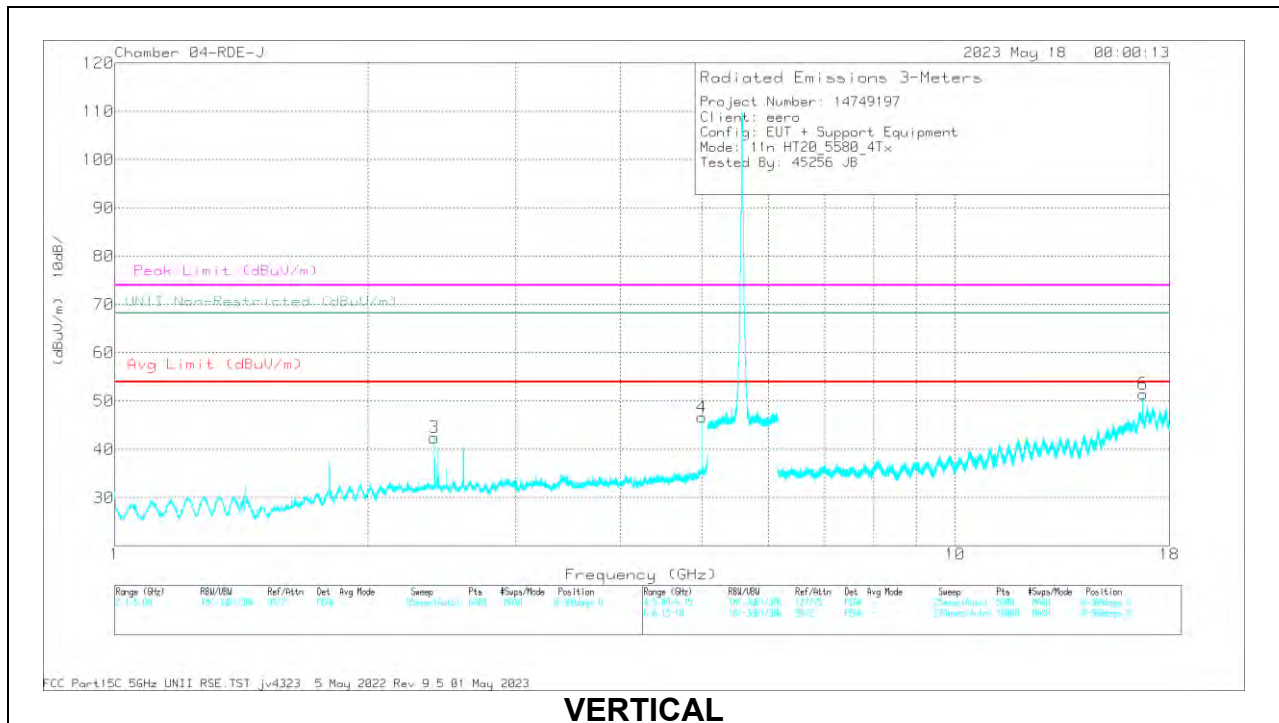
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**



### RADIATED EMISSIONS

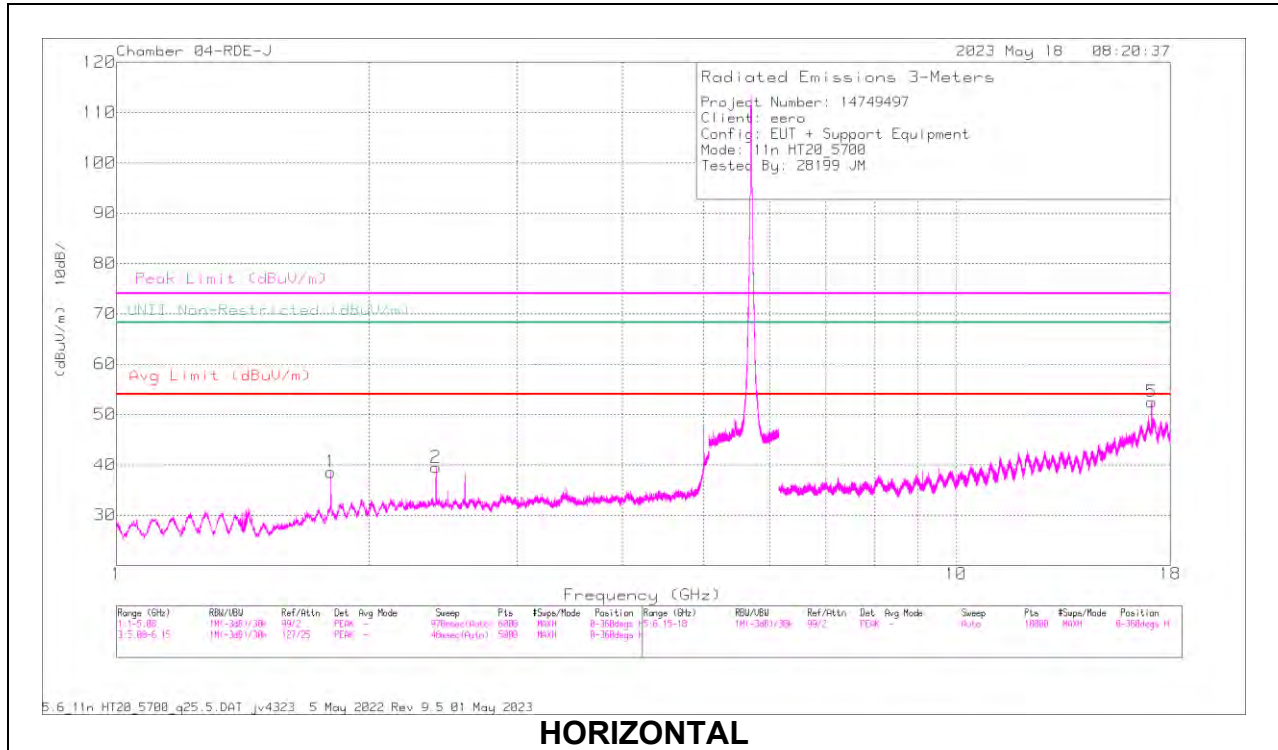
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.425603	59.17	PK-U	32.1	-45.1	46.17	-	-	-	-	68.2	-22.03	326	228	H
2	* 5.00023	61.79	PK-U	34.2	-43.1	52.89	-	-	74	-21.11	-	-	343	155	H
	* 5.000091	55.04	ADR	34.2	-43.1	46.14	54	-7.86	-	-	-	-	343	155	H
3	2.402231	66.36	PK-U	32	-45.3	53.06	-	-	-	-	68.2	-15.14	108	190	V
4	* 5.000274	61.19	PK-U	34.2	-43.1	52.29	-	-	74	-21.71	-	-	337	186	V
	* 5.00006	56.38	ADR	34.2	-43.1	47.48	54	-6.52	-	-	-	-	337	186	V
5	16.744374	57.19	PK-U	42.3	-35	64.49	-	-	-	-	68.2	-3.71	136	129	H
6	16.74411	55.18	PK-U	42.3	-35	62.48	-	-	-	-	68.2	-5.72	190	195	V

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

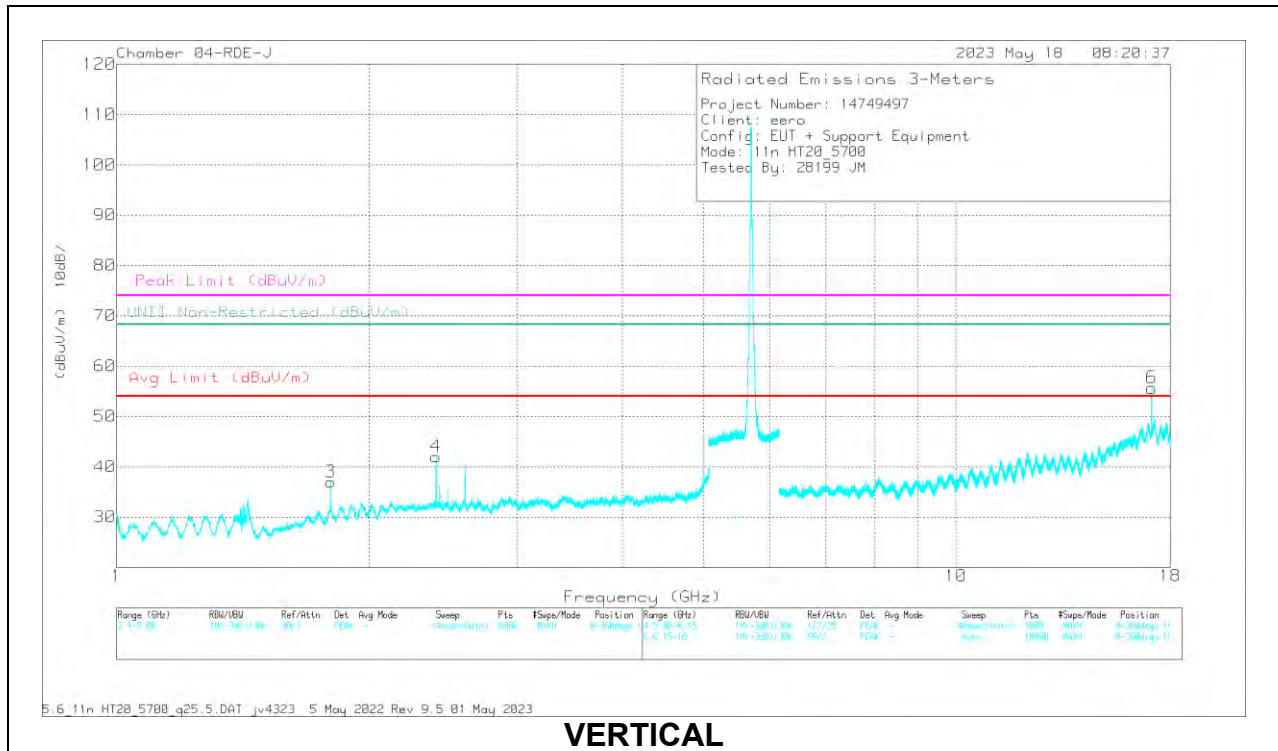
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

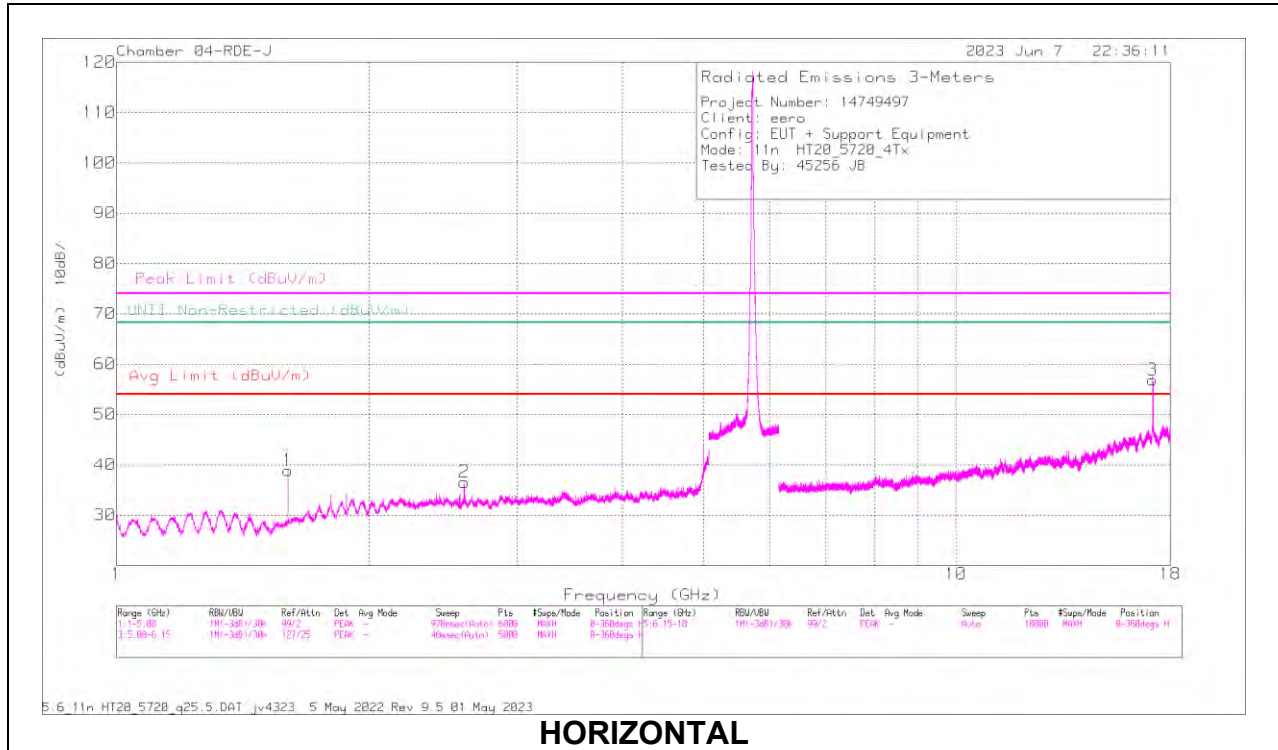
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Amp/Cbl/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.800026	61.12	PK-U	30.5	-43.9	47.72	-	-	-	-	68.2	-20.48	21	222	H
2	2.404053	57.45	PK-U	32	-45.2	44.25	-	-	-	-	68.2	-23.95	52	353	H
3	1.800379	61.92	PK-U	30.5	-43.9	48.52	-	-	-	-	68.2	-19.68	15	138	V
4	2.403964	58.84	PK-U	32	-45.2	45.64	-	-	-	-	68.2	-22.56	329	178	V
5	17.101716	53.73	PK-U	42.2	-33.9	62.03	-	-	-	-	68.2	-6.17	119	397	H
6	17.112407	58.2	PK-U	42.1	-33.7	66.6	-	-	-	-	68.2	-1.6	161	196	V

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

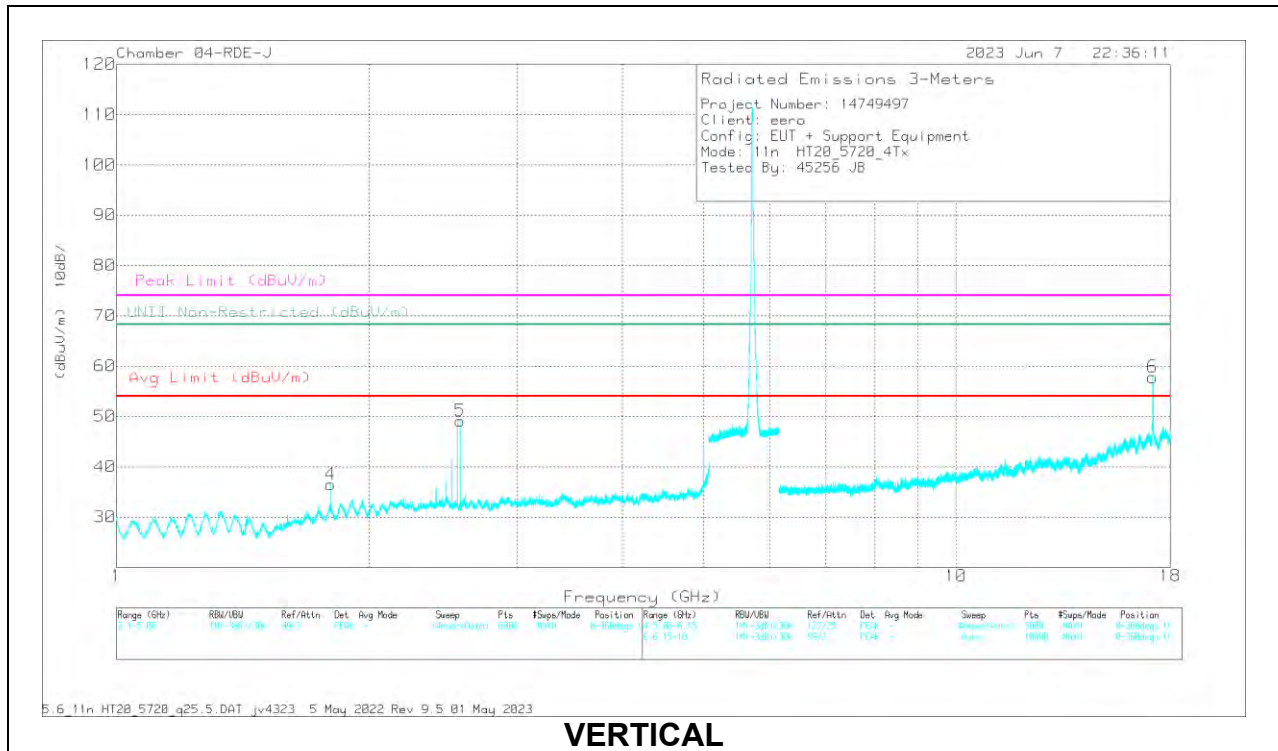
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### CHANNEL 144 RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF(dB) - 3mH	Cbl/Amp (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	* 1.600002	71.96	PK-U	27.8	-47	52.76	-	-	74	-21.24	-	-	42	226	H
	* 1.59932	49	ADR	27.8	-46.9	29.9	54	-24.1	-	-	-	-	42	226	H
2	2.594281	57.37	PK-U	32.3	-46.5	43.17	-	-	-	-	68.2	-25.03	340	143	H
3	17.156139	65.07	PK-U	42.1	-39.1	68.07	-	-	-	-	68.2	-1.13	143	109	H
4	1.7998	61.79	PK-U	30.5	-46.5	45.79	-	-	-	-	68.2	-22.41	16	101	V
5	2.563175	56.77	PK-U	32.3	-46.3	42.77	-	-	-	-	68.2	-25.43	1	263	V
6	17.149158	64.82	PK-U	42.1	-39	67.92	-	-	-	-	68.2	-1.28	147	110	V

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

PK-U - U-NII: Maximum Peak

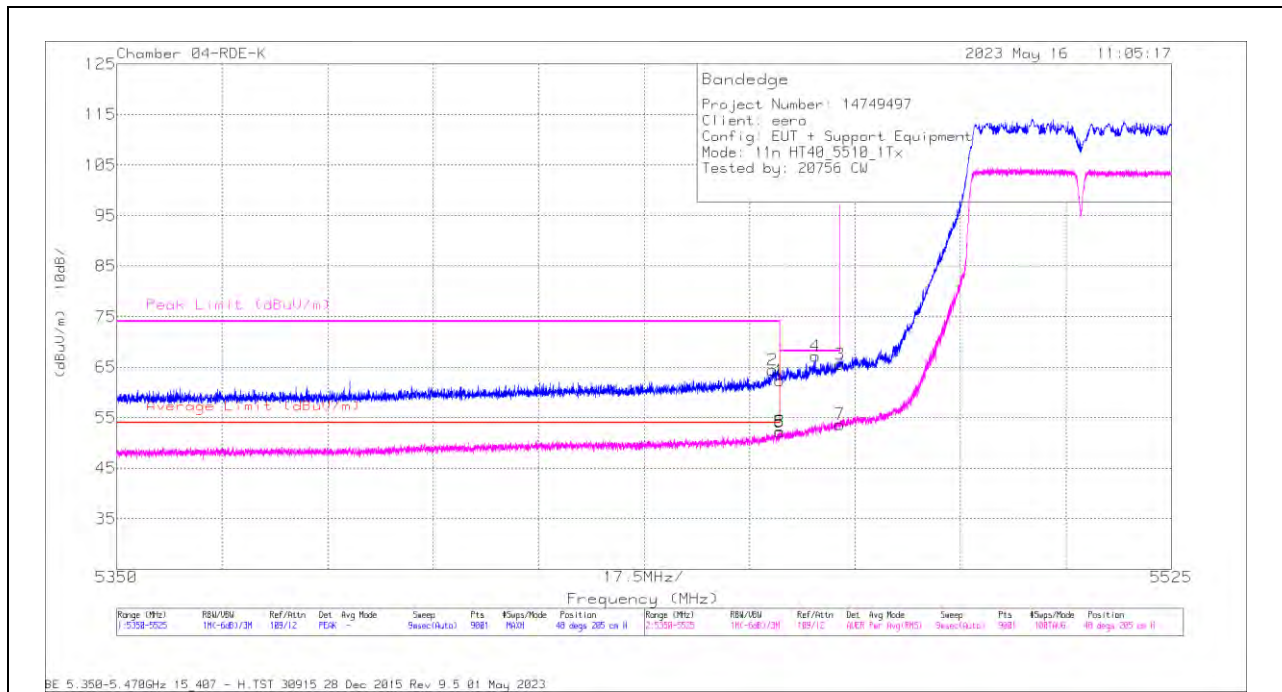
ADR - U-NII AD primary method, RMS average

### 10.1.8. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	35.14	Pk	34.6	-7.4	62.34	-	-	68.2	-5.86	48	205	H
2	* 5458.809	37.39	Pk	34.6	-7.5	64.49	-	-	74	-9.51	48	205	H
3	5470	38.24	Pk	34.6	-7.3	65.54	-	-	68.2	-2.66	48	205	H
4	5465.886	39.9	Pk	34.6	-7.3	67.2	-	-	68.2	-1	48	205	H
5	* 5460	24.91	RMS	34.6	-7.4	52.11	54	-1.89	-	-	48	205	H
6	* 5459.995	25.02	RMS	34.6	-7.4	52.22	54	-1.78	-	-	48	205	H
7	5470	26.4	RMS	34.6	-7.3	53.7	-	-	-	-	48	205	H
8	* 5459.995	25.02	RMS	34.6	-7.4	52.22	54	-1.78	-	-	48	205	H

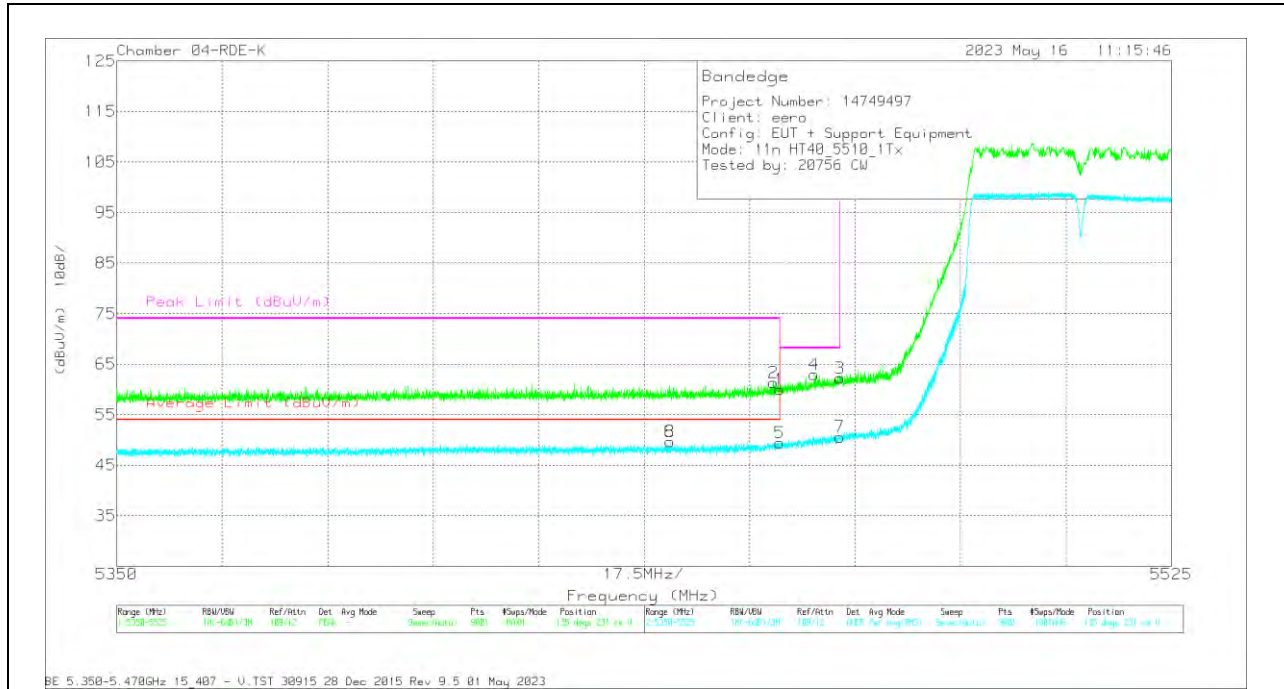
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



### VERTICAL RESULT



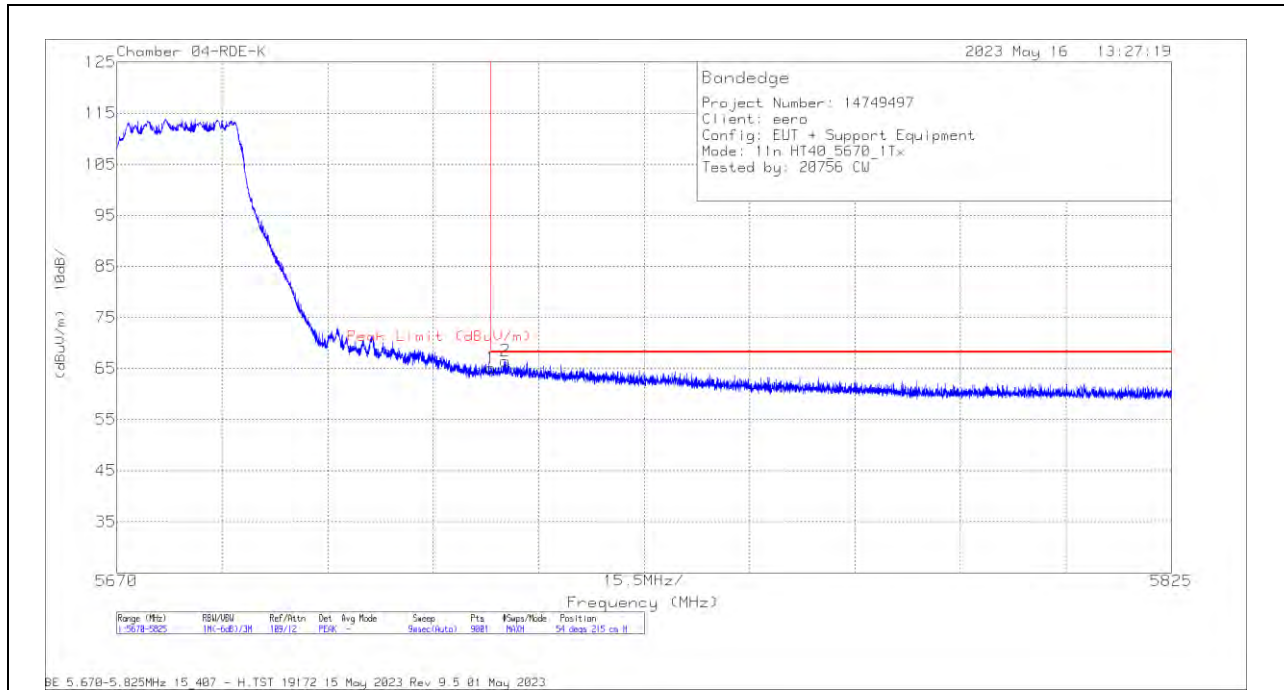
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	32.81	Pk	34.6	-7.4	60.01	-	-	68.2	-8.19	135	231	V
2	* 5458.925	34.28	Pk	34.6	-7.5	61.38	-	-	74	-12.62	135	231	V
3	5470	34.86	Pk	34.6	-7.3	62.16	-	-	68.2	-6.04	135	231	V
4	5465.711	35.71	Pk	34.6	-7.3	63.01	-	-	68.2	-5.19	135	231	V
5	* 5460	22.18	RMS	34.6	-7.4	49.38	54	-4.62	-	-	135	231	V
6	* 5441.776	22.42	RMS	34.6	-7.4	49.62	54	-4.38	-	-	135	231	V
7	5470	23.3	RMS	34.6	-7.3	50.6	-	-	-	-	135	231	V
8	* 5441.776	22.42	RMS	34.6	-7.4	49.62	54	-4.38	-	-	135	231	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

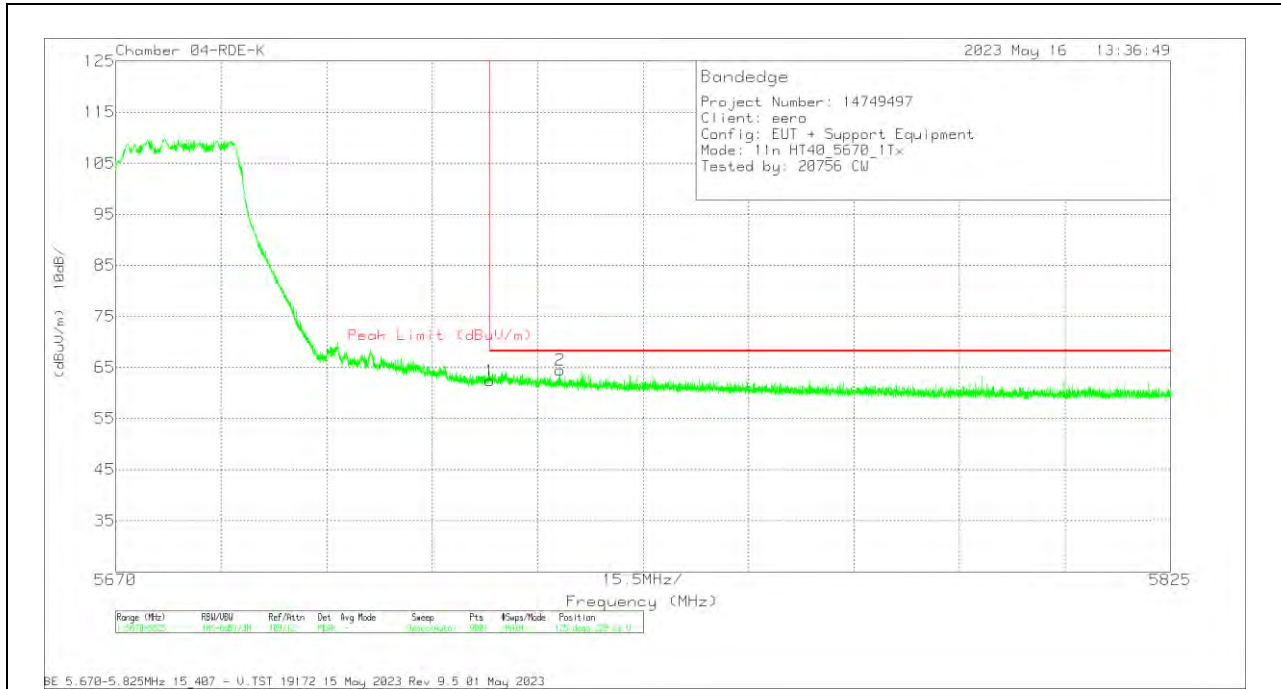


**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	37.15	Pk	34.7	-6.7	65.15	68.2	-3.05	54	215	H
2	5727.125	38.61	Pk	34.7	-6.8	66.51	68.2	-1.69	54	215	H

Pk - Peak detector

### VERTICAL RESULT



### Trace Markers

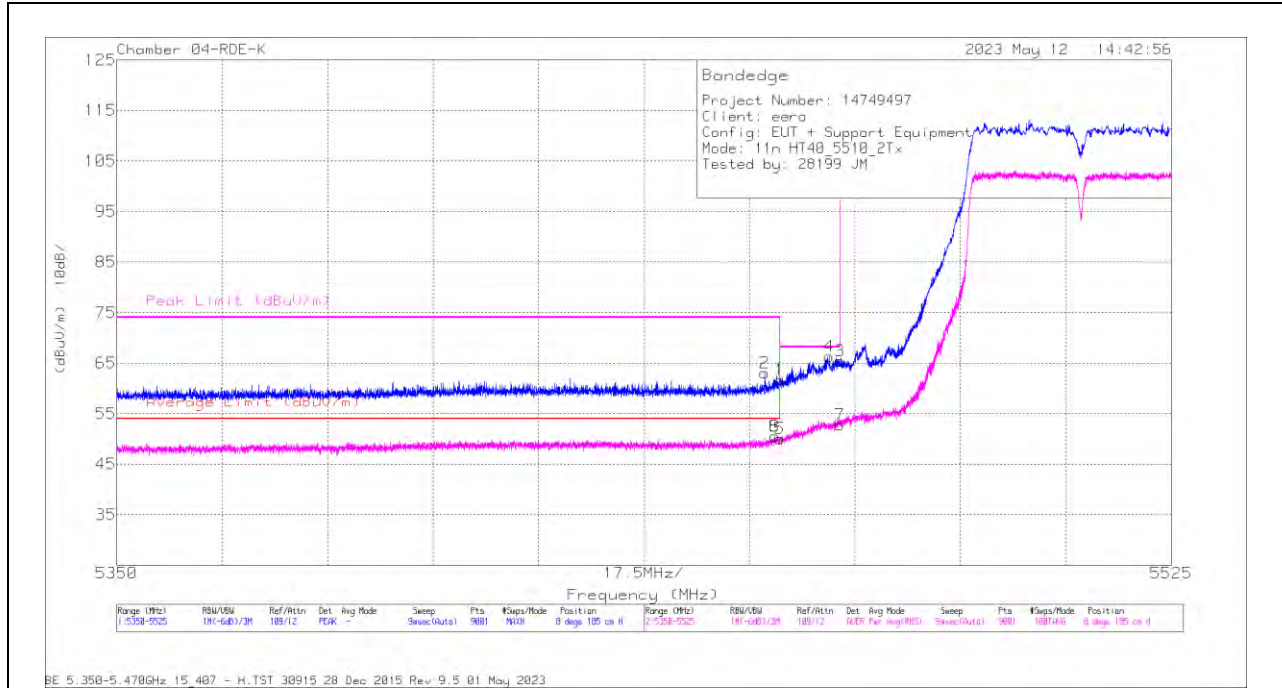
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	34.38	Pk	34.7	-6.7	62.38	68.2	-5.82	125	228	V
2	5735.306	36.53	Pk	34.7	-6.7	64.53	68.2	-3.67	125	228	V

Pk - Peak detector

**2TX Antenna 6 + Antenna 4 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

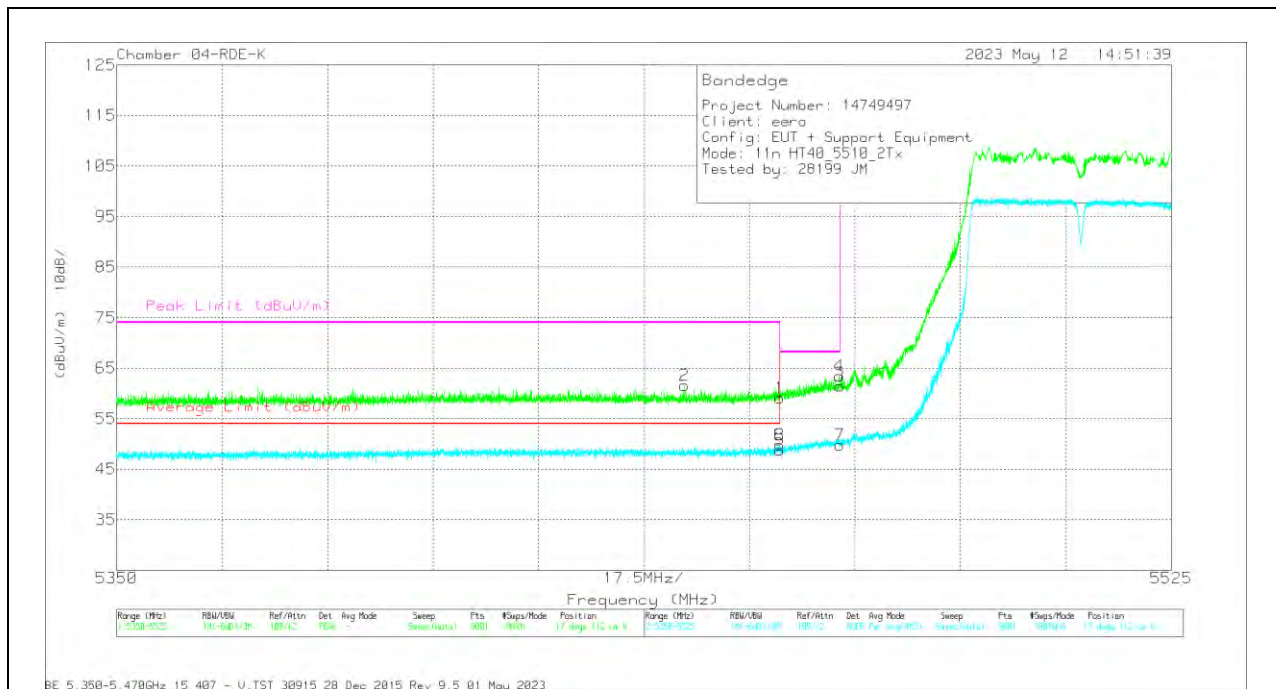
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cb/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	34.51	Pk	34.6	-7.4	61.71	-	-	68.2	-6.49	8	185	H
2	* 5457.525	35.88	Pk	34.6	-7.4	63.08	-	-	74	-10.92	8	185	H
3	5470	38.12	Pk	34.6	-7.3	65.42	-	-	68.2	-2.78	8	185	H
4	5468.2	38.97	Pk	34.6	-7.3	66.27	-	-	68.2	-1.93	8	185	H
5	* 5460	22.86	RMS	34.6	-7.4	50.06	54	-3.94	-	-	8	185	H
6	* 5459.178	23.41	RMS	34.6	-7.5	50.51	54	-3.49	-	-	8	185	H
7	5470	25.46	RMS	34.6	-7.3	52.76	-	-	-	-	8	185	H
8	* 5459.178	23.41	RMS	34.6	-7.5	50.51	54	-3.49	-	-	8	185	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5460	31.92	Pk	34.6	-7.4	59.12	-	-	68.2	-9.08	17	112	V
2	* 5444.245	34.44	Pk	34.6	-7.4	61.64	-	-	74	-12.36	17	112	V
3	5470	34.2	Pk	34.6	-7.3	61.5	-	-	68.2	-6.7	17	112	V
4	5469.872	36.19	Pk	34.6	-7.3	63.49	-	-	68.2	-4.71	17	112	V
5	* 5460	21.6	RMS	34.6	-7.4	48.8	54	-5.2	-	-	17	112	V
6	* 5459.956	22.62	RMS	34.6	-7.4	49.82	54	-4.18	-	-	17	112	V
7	5470	22.53	RMS	34.6	-7.3	49.83	-	-	-	-	17	112	V
8	* 5459.956	22.62	RMS	34.6	-7.4	49.82	54	-4.18	-	-	17	112	V

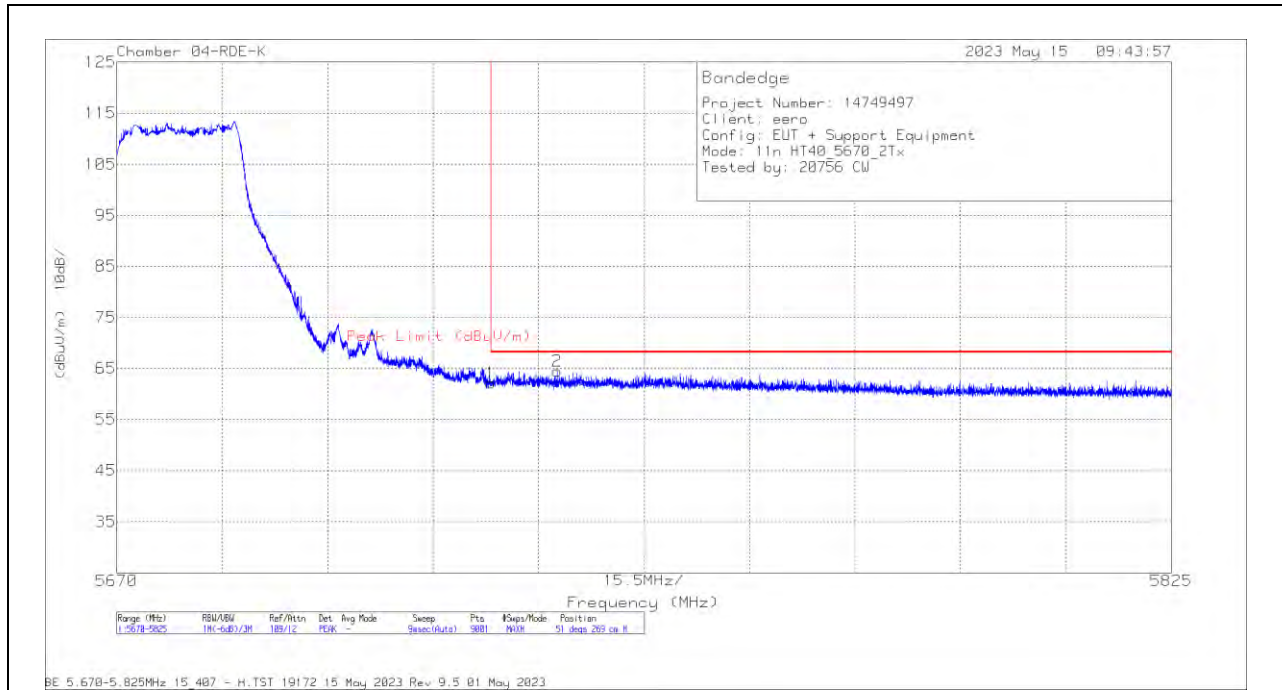
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	34.17	Pk	34.7	-6.7	62.17	68.2	-6.03	51	269	H
2	5734.755	36.53	Pk	34.7	-6.7	64.53	68.2	-3.67	51	269	H

Pk - Peak detector