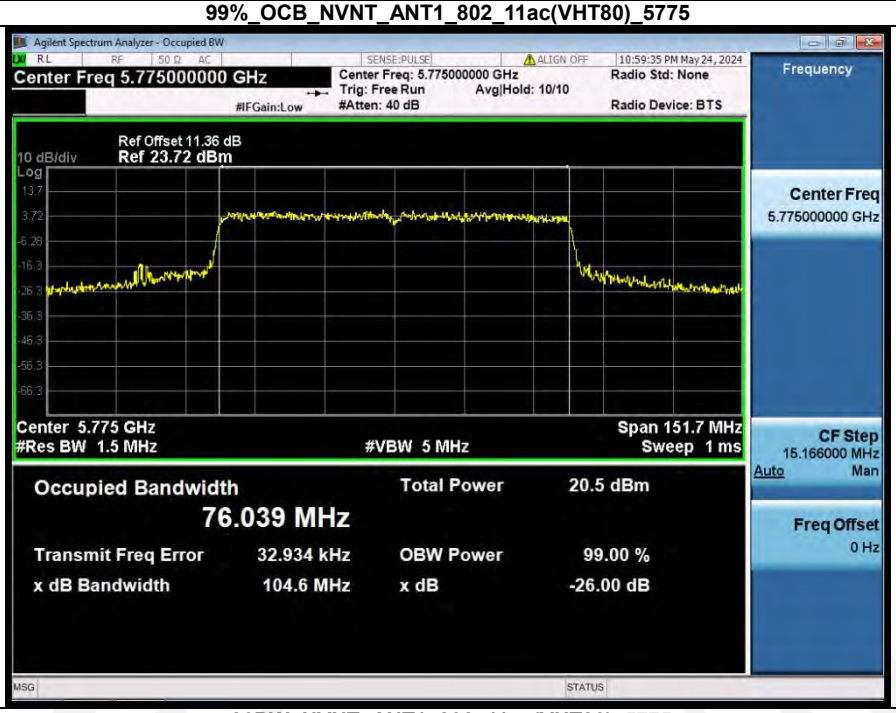
99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775



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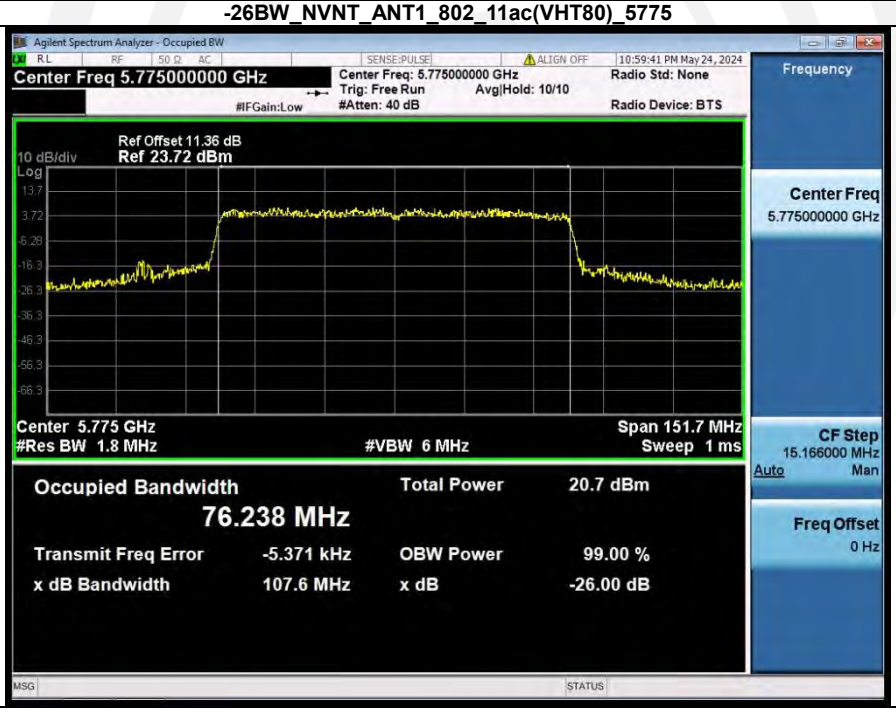
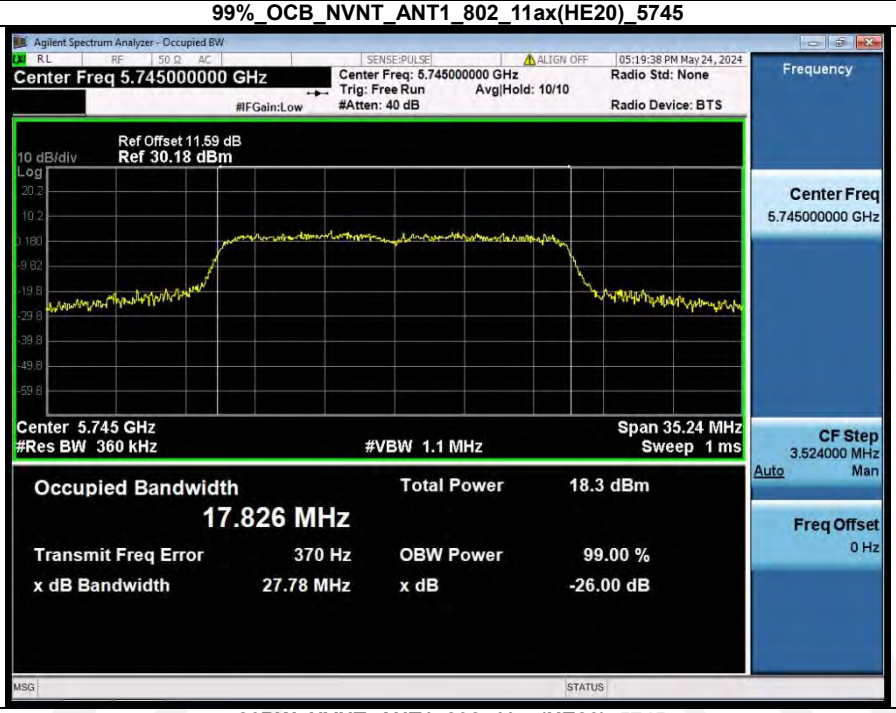


99%_OCB_NVNT_ANT1_802_11ax(HE20)_5745



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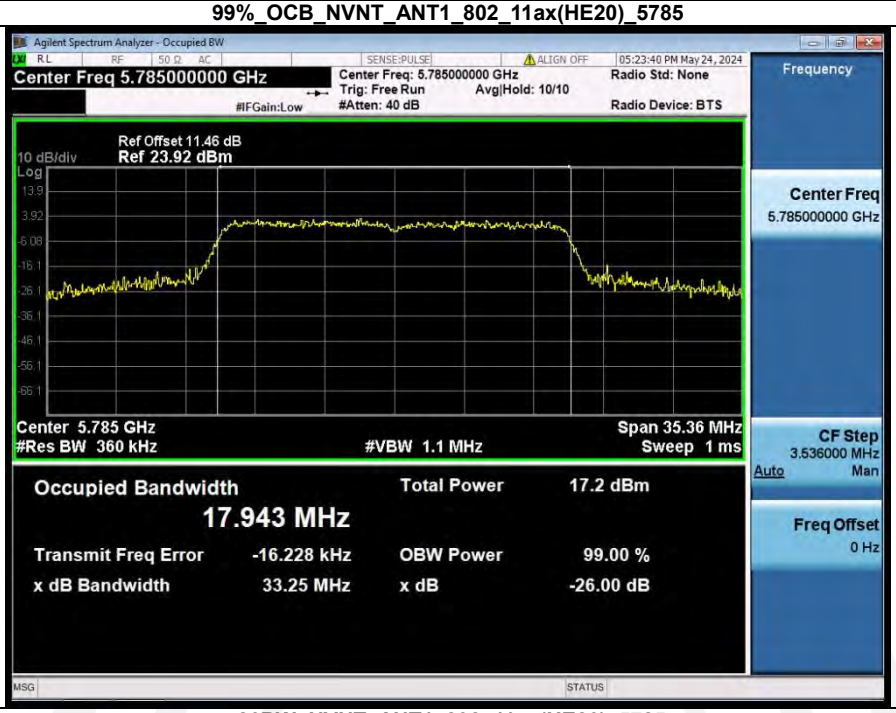
99%_OCB_NVNT_ANT1_802_11ax(HE20)_5785



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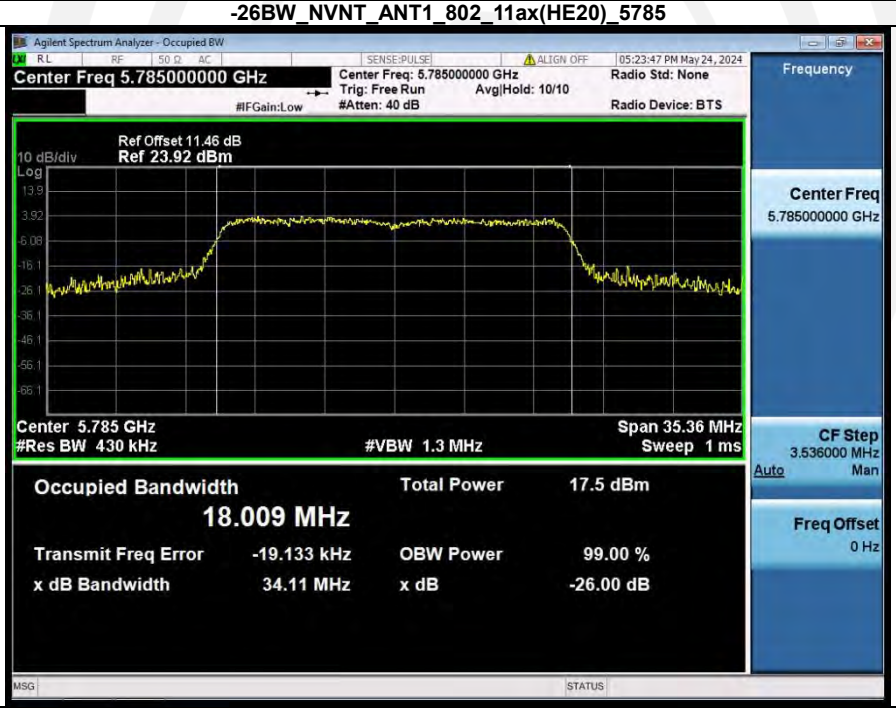
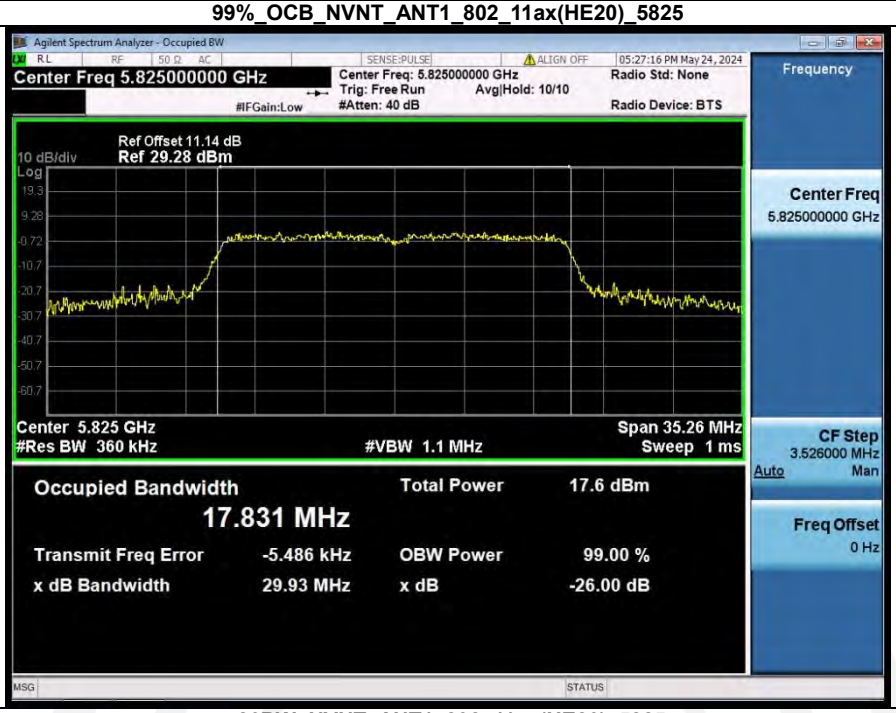


99%_OCB_NVNT_ANT1_802_11ax(HE20)_5825



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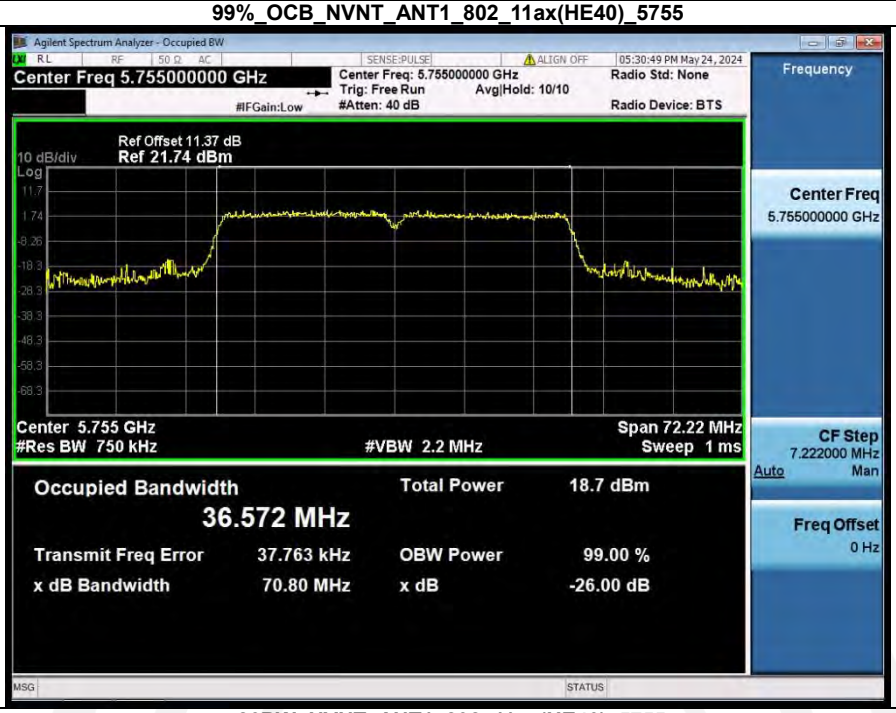
99%_OCB_NVNT_ANT1_802_11ax(HE40)_5755



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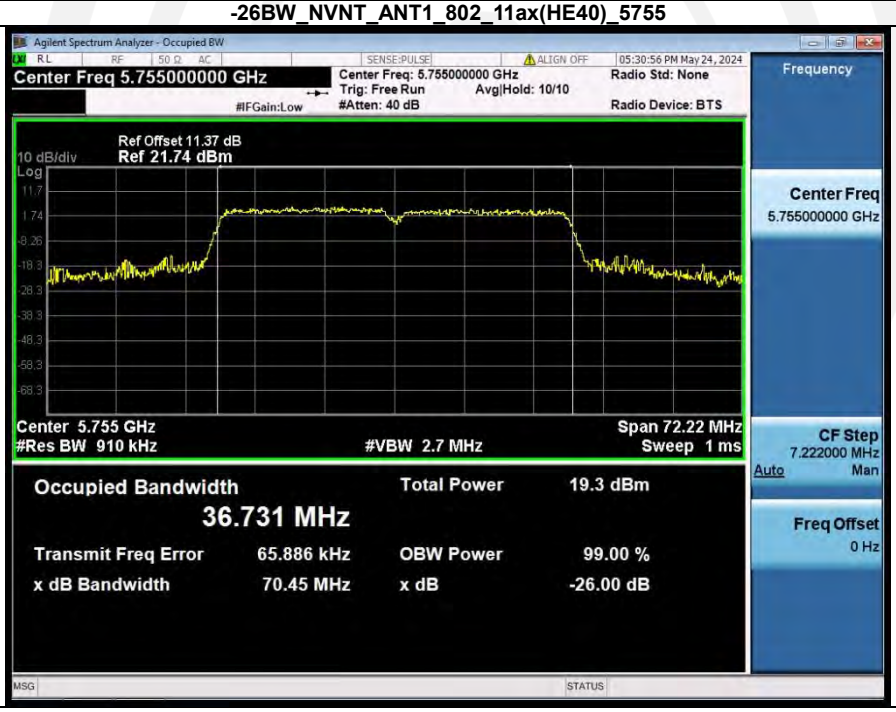
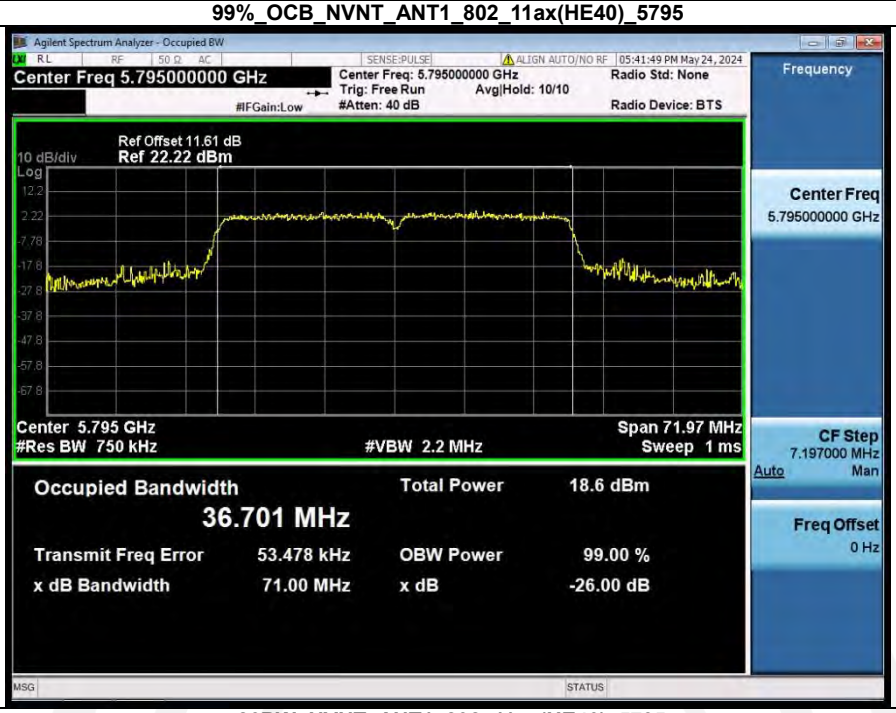


99%_OCB_NVNT_ANT1_802_11ax(HE40)_5795



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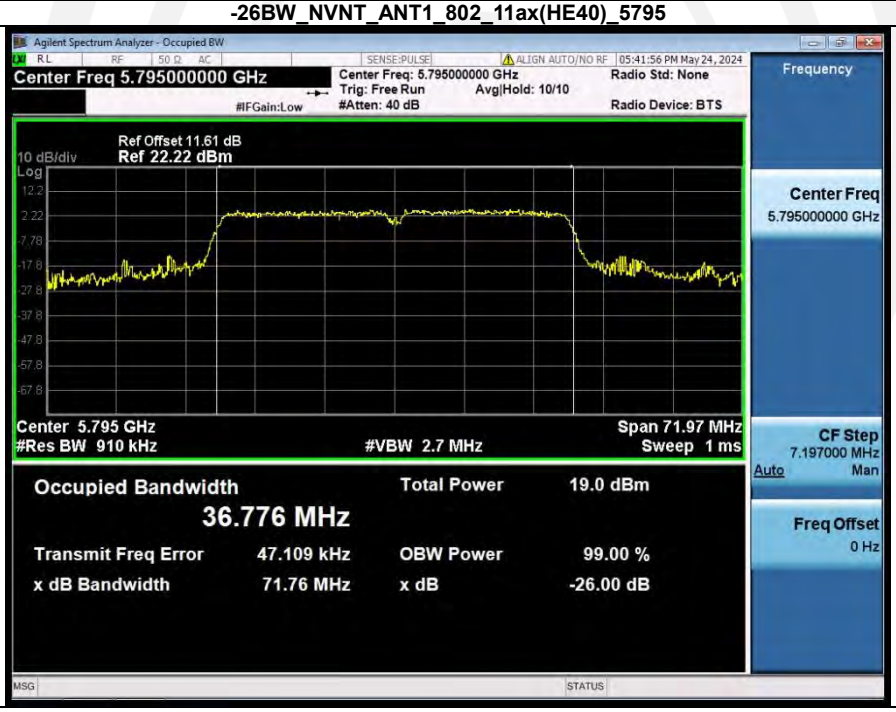
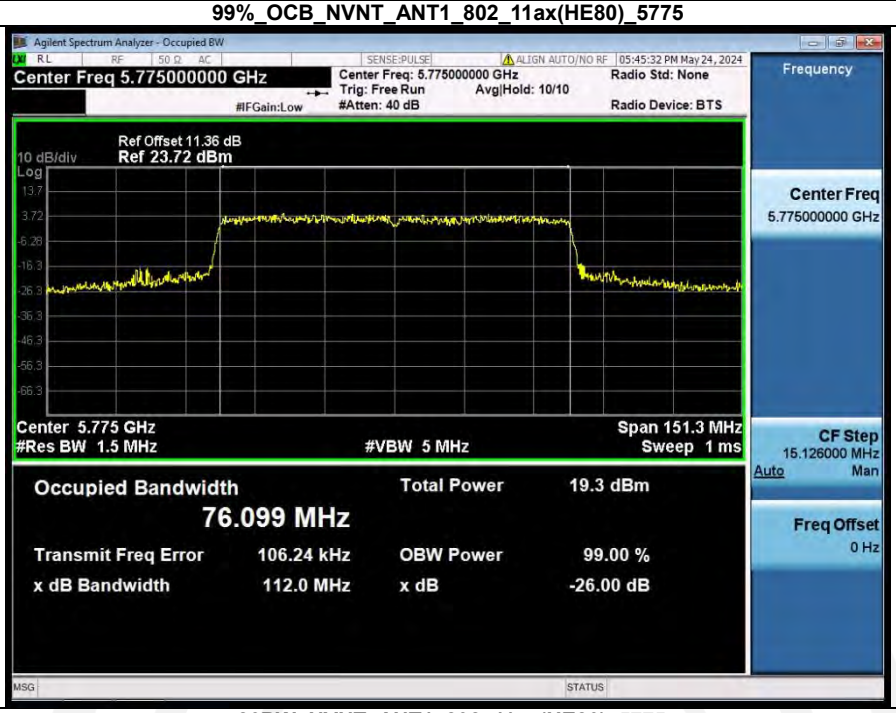
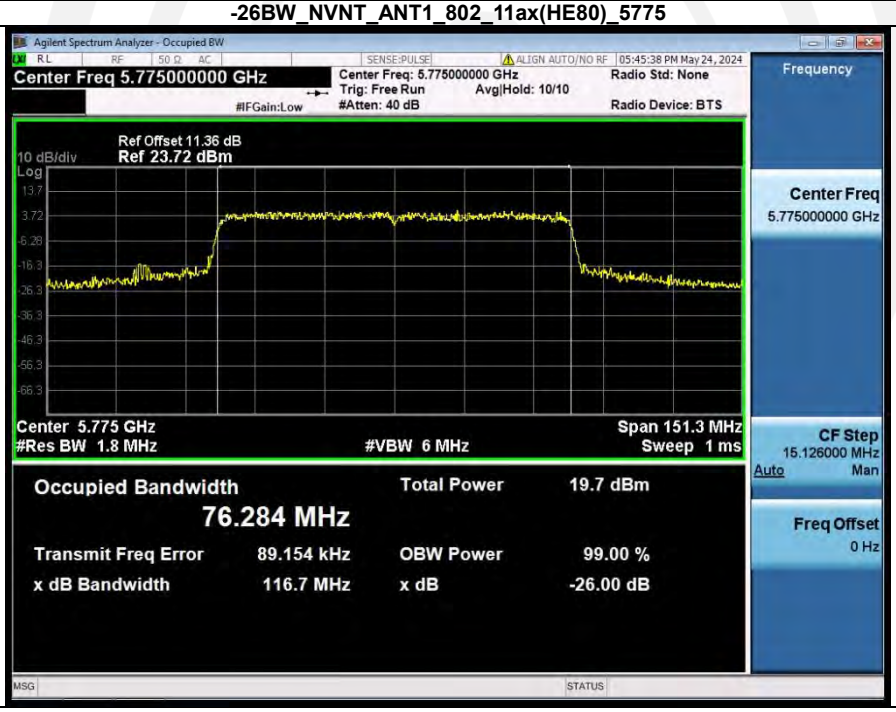


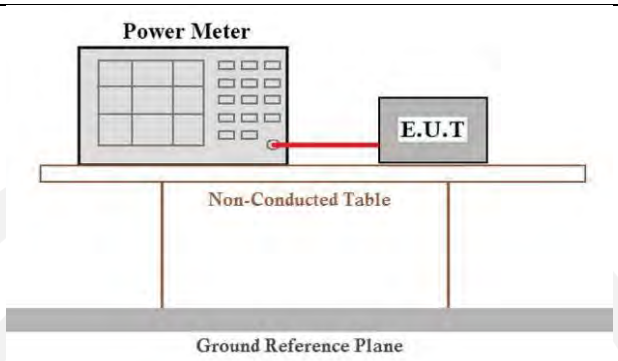
99%_OCB_NVNT_ANT1_802_11ax(HE80)_5775



-26BW_NVNT_ANT1_802_11ax(HE80)_5775



4.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W.
Test setup:	
Test procedure:	**Measurement using an RF average power meter** (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Band 1 (5150-5250 MHz)

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.70	0.41	13.11	24	Pass
NVNT	ANT1	802.11a	5200.00	13.28	0.41	**13.69**	24	Pass
NVNT	ANT1	802.11a	5240.00	13.02	0.48	13.50	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	12.61	0.56	13.17	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	13.03	0.55	13.58	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	12.94	0.55	13.49	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	12.71	0.55	13.26	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	9.04	0.55	9.59	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	9.65	0.55	10.20	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	8.69	1.06	9.75	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	9.91	0.94	10.85	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	9.05	0.91	9.96	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	10.24	0.29	10.53	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	11.60	1.66	13.26	24	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	11.56	0.13	11.69	24	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	12.08	0.13	12.21	24	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	11.97	0.13	12.10	24	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	12.02	0.26	12.28	24	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	12.04	0.26	12.30	24	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	11.31	0.51	11.82	24	Pass

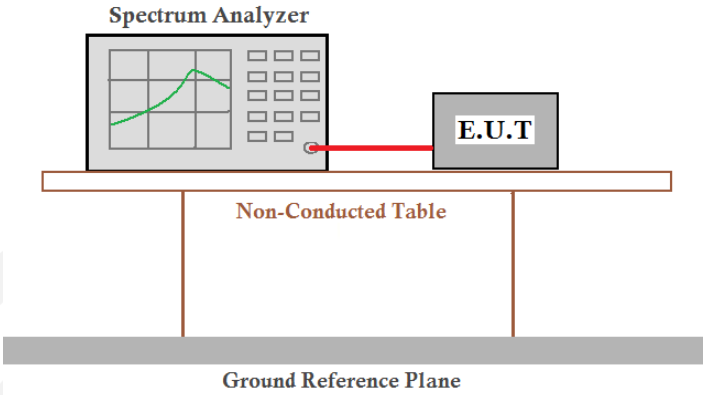
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	90.91	0.41
NVNT	ANT1	802.11a	5200.00	90.91	0.41
NVNT	ANT1	802.11a	5240.00	89.61	0.48
NVNT	ANT1	802.11n(HT20)	5180.00	87.88	0.56
NVNT	ANT1	802.11n(HT20)	5200.00	88.06	0.55
NVNT	ANT1	802.11n(HT20)	5240.00	88.06	0.55
NVNT	ANT1	802.11ac(VHT20)	5180.00	88.06	0.55
NVNT	ANT1	802.11ac(VHT20)	5200.00	88.06	0.55
NVNT	ANT1	802.11ac(VHT20)	5240.00	88.06	0.55
NVNT	ANT1	802.11n(HT40)	5190.00	78.38	1.06
NVNT	ANT1	802.11n(HT40)	5230.00	80.56	0.94
NVNT	ANT1	802.11ac(VHT40)	5190.00	81.08	0.91
NVNT	ANT1	802.11ac(VHT40)	5230.00	93.55	0.29
NVNT	ANT1	802.11ac(VHT80)	5210.00	68.18	1.66
NVNT	ANT1	802.11ax(HE20)	5180.00	97.01	0.13
NVNT	ANT1	802.11ax(HE20)	5200.00	97.01	0.13
NVNT	ANT1	802.11ax(HE20)	5240.00	97.01	0.13
NVNT	ANT1	802.11ax(HE40)	5190.00	94.12	0.26
NVNT	ANT1	802.11ax(HE40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ax(HE80)	5210.00	88.89	0.51

Band 4 (5725 – 5850 MHz)

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	11.85	0.48	12.33	30	Pass
NVNT	ANT1	802.11a	5785.00	10.93	0.41	11.34	30	Pass
NVNT	ANT1	802.11a	5825.00	11.05	0.47	11.52	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	11.10	0.56	11.66	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	10.87	0.49	11.36	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	11.13	0.55	11.68	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	12.19	0.49	**12.68**	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	11.33	0.55	11.88	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	11.08	0.48	11.56	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	11.73	0.91	12.64	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	12.06	0.29	12.35	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	11.66	0.91	12.57	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	11.42	1.03	12.45	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	10.30	1.66	11.96	30	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	10.99	0.62	11.61	30	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	10.30	0.55	10.85	30	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	10.61	0.49	11.10	30	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	10.43	1.03	11.46	30	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	10.48	1.06	11.54	30	Pass
NVNT	ANT1	802.11ax(HE80)	5775.00	9.45	1.66	11.11	30	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	89.61	0.48
NVNT	ANT1	802.11a	5785.00	90.91	0.41
NVNT	ANT1	802.11a	5825.00	89.74	0.47
NVNT	ANT1	802.11n(HT20)	5745.00	87.88	0.56
NVNT	ANT1	802.11n(HT20)	5785.00	89.39	0.49
NVNT	ANT1	802.11n(HT20)	5825.00	88.06	0.55
NVNT	ANT1	802.11ac(VHT20)	5745.00	89.39	0.49
NVNT	ANT1	802.11ac(VHT20)	5785.00	88.06	0.55
NVNT	ANT1	802.11ac(VHT20)	5825.00	89.55	0.48
NVNT	ANT1	802.11n(HT40)	5755.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	5795.00	93.55	0.29
NVNT	ANT1	802.11ac(VHT40)	5755.00	81.08	0.91
NVNT	ANT1	802.11ac(VHT40)	5795.00	78.95	1.03
NVNT	ANT1	802.11ac(VHT80)	5775.00	68.18	1.66
NVNT	ANT1	802.11ax(HE20)	5745.00	86.76	0.62
NVNT	ANT1	802.11ax(HE20)	5785.00	88.06	0.55
NVNT	ANT1	802.11ax(HE20)	5825.00	89.39	0.49
NVNT	ANT1	802.11ax(HE40)	5755.00	78.95	1.03
NVNT	ANT1	802.11ax(HE40)	5795.00	78.38	1.06
NVNT	ANT1	802.11ax(HE80)	5775.00	68.18	1.66

4.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz ≤30.00dBm/500KHz for 5725MHz-5850MHz
Test setup:	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power…”. 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Band 1 (5150-5250 MHz)

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	1.48	0.41	1.89	11	Pass
NVNT	ANT1	802.11a	5200.00	1.79	0.41	2.20	11	Pass
NVNT	ANT1	802.11a	5240.00	1.76	0.48	2.24	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	1.23	0.56	1.79	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	1.64	0.55	2.19	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	1.48	0.55	2.03	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	1.36	0.55	1.91	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-2.36	0.55	-1.81	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-1.78	0.55	-1.23	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-5.12	1.06	-4.06	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-4.61	0.94	-3.67	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-4.91	0.91	-4.00	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-4.31	0.29	-4.02	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-5.98	1.66	-4.32	11	Pass
NVNT	ANT1	802.11ax(HE20)	5180.00	1.30	0.13	1.43	11	Pass
NVNT	ANT1	802.11ax(HE20)	5200.00	1.62	0.13	1.75	11	Pass
NVNT	ANT1	802.11ax(HE20)	5240.00	1.45	0.13	1.58	11	Pass
NVNT	ANT1	802.11ax(HE40)	5190.00	-1.23	0.26	-0.97	11	Pass
NVNT	ANT1	802.11ax(HE40)	5230.00	-0.60	0.26	-0.34	11	Pass
NVNT	ANT1	802.11ax(HE80)	5210.00	-4.66	0.51	-4.15	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180


Power_Spectral_Density_NVNT_ANT1_802_11a_5200


Power_Spectral_Density_NVNT_ANT1_802_11a_5240


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190

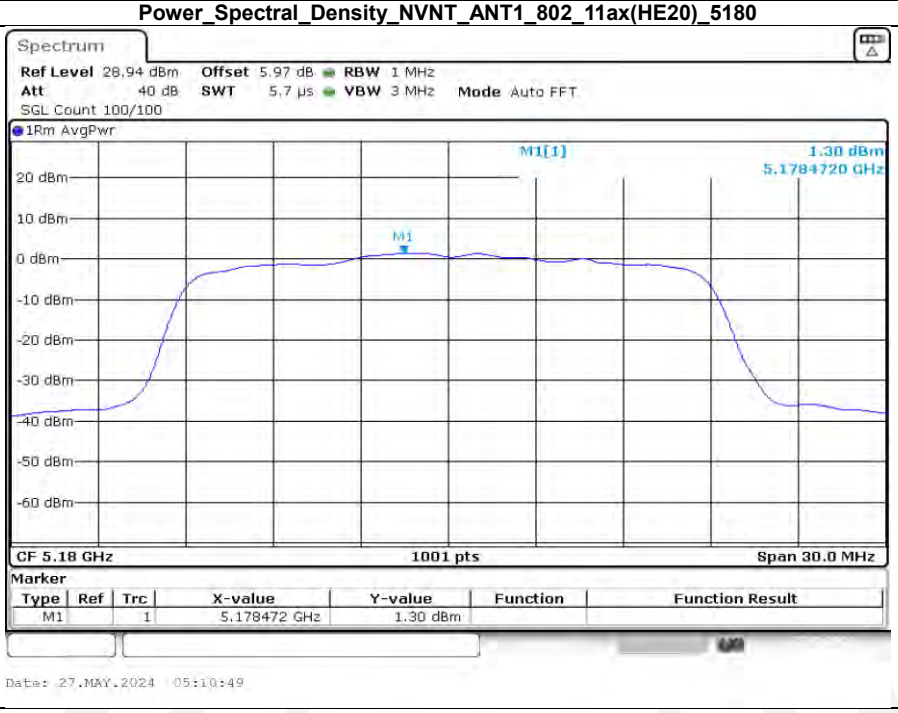

Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190

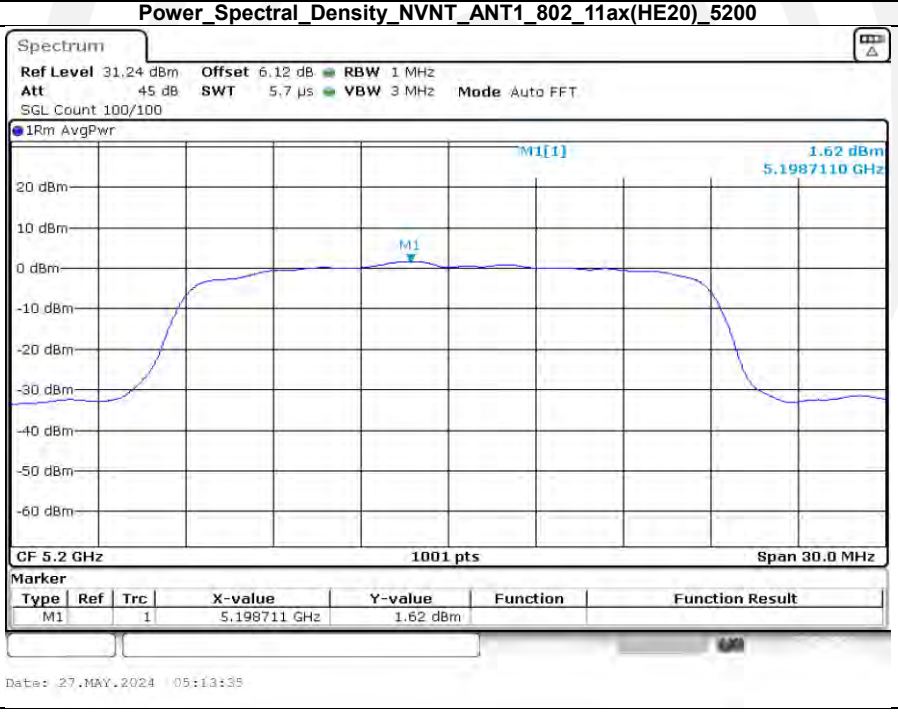

Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5200



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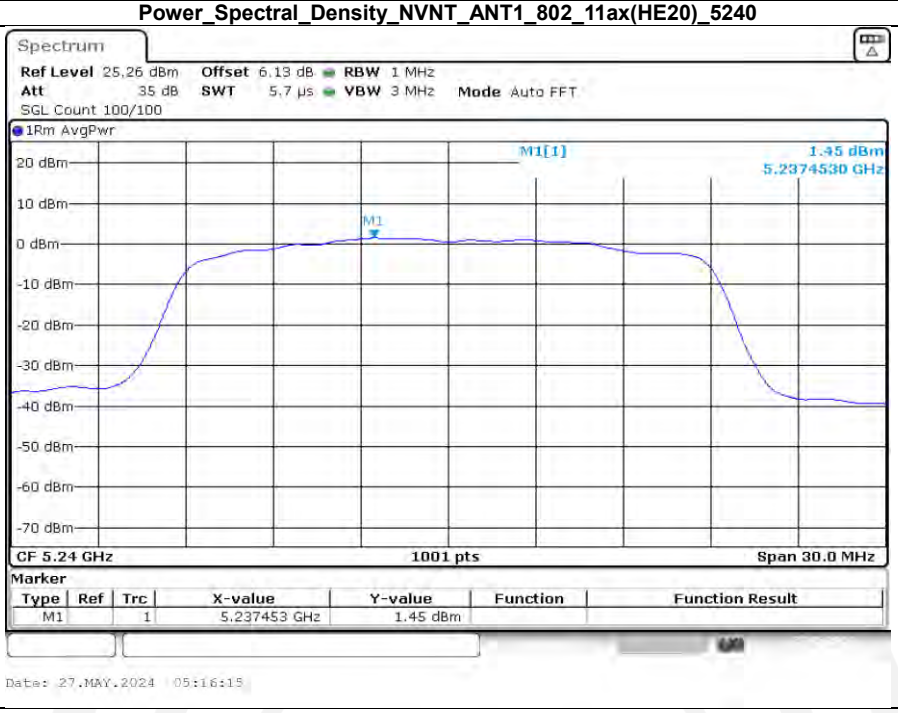
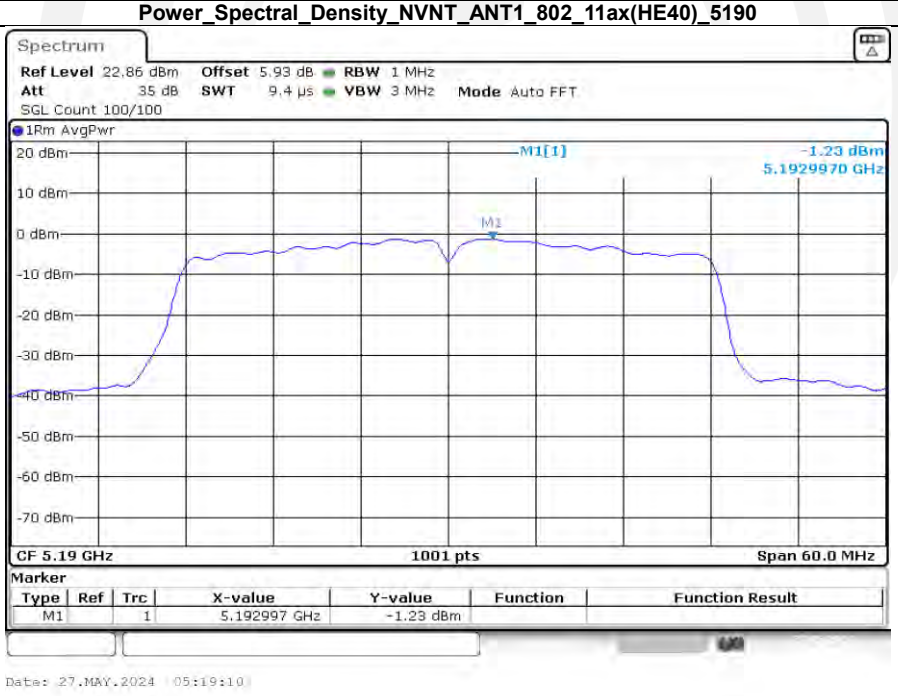
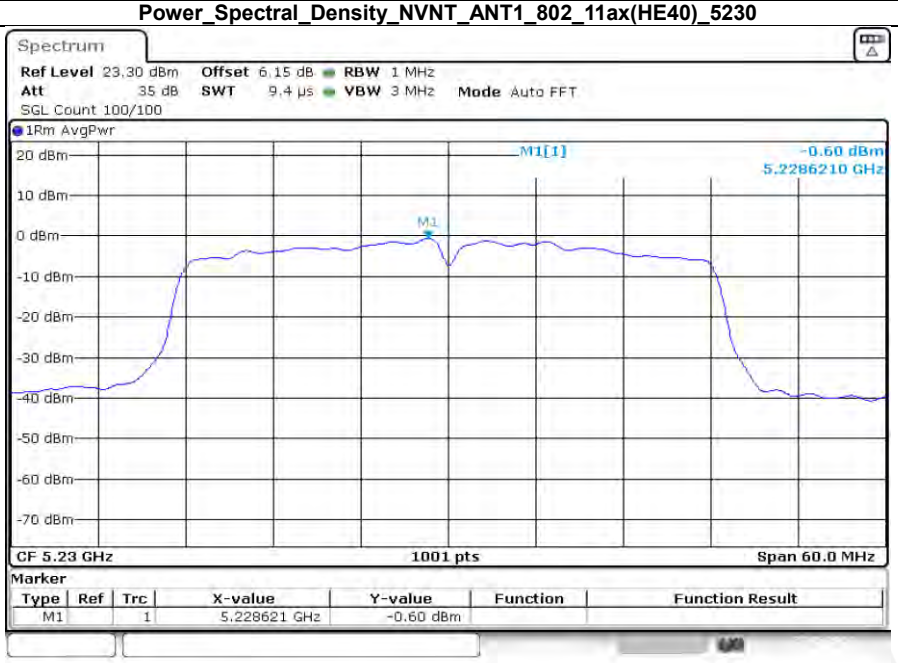


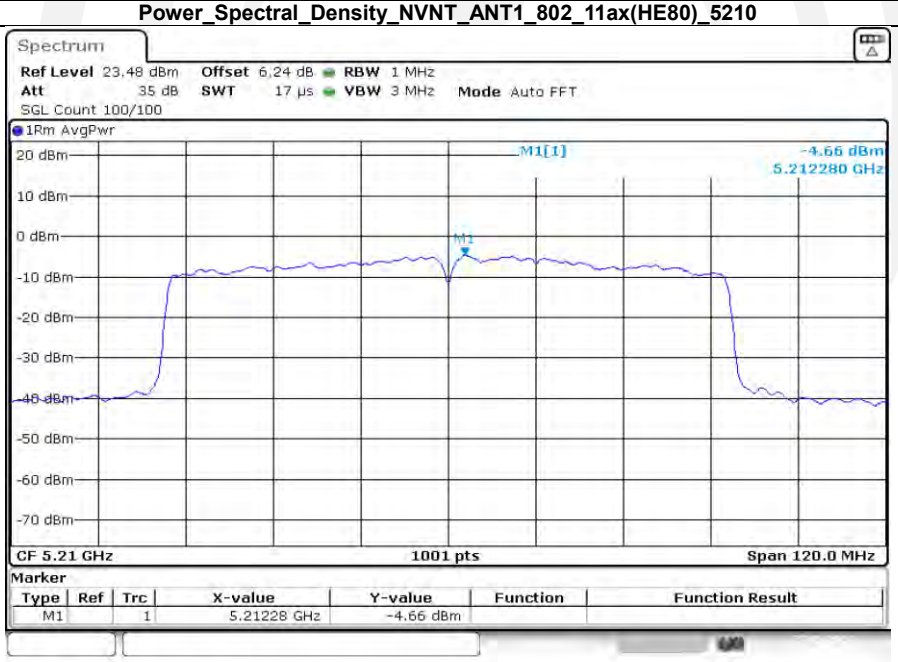
Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5210



Band 4 (5725 – 5850 MHz)

Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
802.11a	5745.00	-2.14	0.48	-0	-1.75	30	Pass
802.11a	5785.00	-2.43	0.41	-0	-2.11	30	Pass
802.11a	5825.00	-2.91	0.47	-0	-2.53	30	Pass
802.11n(HT20)	5745.00	-2.82	0.56	-0	-2.35	30	Pass
802.11n(HT20)	5785.00	-2.82	0.49	-0	-2.42	30	Pass
802.11n(HT20)	5825.00	-2.91	0.55	-0	-2.44	30	Pass
802.11ac(VHT20)	5745.00	-1.66	0.49	-0	-1.26	30	Pass
802.11ac(VHT20)	5785.00	-2.55	0.55	-0	-2.08	30	Pass
802.11ac(VHT20)	5825.00	-2.88	0.48	-0	-2.49	30	Pass
802.11n(HT40)	5755.00	-5.37	0.91	-0	-4.54	30	Pass
802.11n(HT40)	5795.00	-5.09	0.29	-0	-4.89	30	Pass
802.11ac(VHT40)	5755.00	-5.14	0.91	-0	-4.32	30	Pass
802.11ac(VHT40)	5795.00	-5.65	1.03	-0	-4.71	30	Pass
802.11ac(VHT80)	5775.00	-9.96	1.66	-0	-8.39	30	Pass
802.11ax(HE20)	5745.00	-3.05	0.62	-0	-2.52	30	Pass
802.11ax(HE20)	5785.00	-3.64	0.55	-0	-3.18	30	Pass
802.11ax(HE20)	5825.00	-3.60	0.49	-0	-3.20	30	Pass
802.11ax(HE40)	5755.00	-6.65	1.03	-0	-5.71	30	Pass
802.11ax(HE40)	5795.00	-6.77	1.06	-0	-5.80	30	Pass
802.11ax(HE80)	5775.00	-10.37	1.66	-0	-8.79	30	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5745


Power_Spectral_Density_NVNT_ANT1_802_11a_5785


Power_Spectral_Density_NVNT_ANT1_802_11a_5825


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5745


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5785


Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5825


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5745


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5785


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5825


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5755


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5795


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5755


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5795


Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5775


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5745


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5785


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5825

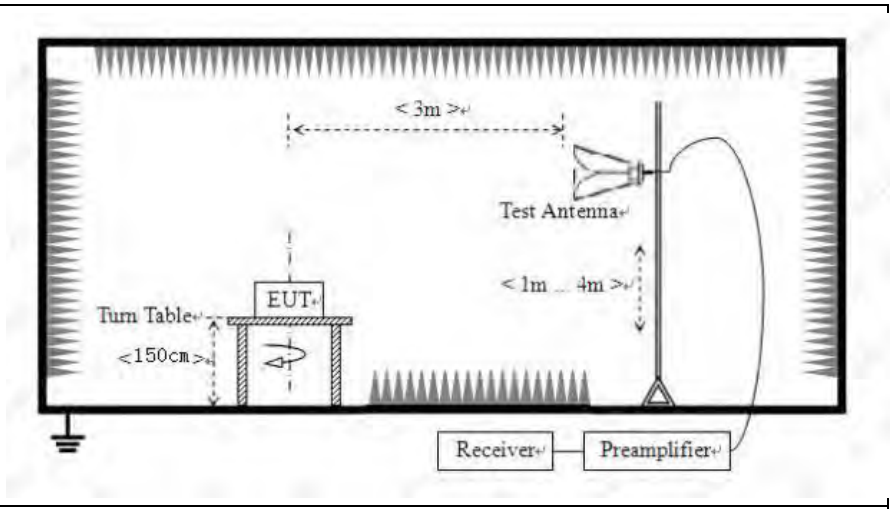

Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5755


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5795


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5775


4.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
</td></tr>
<tr><td>Test setup:</td><td>Above 1GHz</td></tr>
</table>

	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2,

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Measurement Data:

Band1

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.26	17.18	53.44	68.20	-14.76	PK
V	5150.00	35.66	17.18	52.84	68.20	-15.36	PK
Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.73	17.18	44.91	54.00	-9.09	AV
V	5150.00	25.74	17.18	42.92	54.00	-11.08	AV
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.12	17.18	52.30	68.20	-15.90	PK
V	5350.00	36.27	17.18	53.45	68.20	-14.75	PK
Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	28.16	17.18	45.34	54.00	-8.66	AV
V	5350.00	25.12	17.18	42.30	54.00	-11.70	AV

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.95	17.18	54.13	68.20	-14.07	PK
V	5150.00	36.45	17.18	53.63	68.20	-14.57	PK
Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.66	17.18	44.84	54.00	-9.16	AV
V	5150.00	27.21	17.18	44.39	54.00	-9.61	AV
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.25	17.18	51.43	68.20	-16.77	PK
V	5350.00	35.32	17.18	52.50	68.20	-15.70	PK
Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.23	17.18	44.41	54.00	-9.59	AV
V	5350.00	24.46	17.18	41.64	54.00	-12.36	AV

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.39	17.18	52.57	68.20	-15.63	PK
V	5150.00	32.75	17.18	49.93	68.20	-18.27	PK

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.98	17.18	43.16	54.00	-10.84	AV
V	5150.00	24.03	17.18	41.21	54.00	-12.79	AV

Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.11	17.18	53.29	68.20	-14.91	PK
V	5350.00	33.93	17.18	51.11	68.20	-17.09	PK

Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.38	17.18	43.56	54.00	-10.44	AV
V	5350.00	24.75	17.18	41.93	54.00	-12.07	AV

Mode:		802.11ax(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.40	17.18	54.58	68.20	-13.62	PK
V	5150.00	33.96	17.18	51.14	68.20	-17.06	PK
Mode:		802.11ax(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.09	17.18	42.27	54.00	-11.73	AV
V	5150.00	27.05	17.18	44.23	54.00	-9.77	AV
Mode:		802.11ax(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.37	17.18	54.55	68.20	-13.65	PK
V	5350.00	35.59	17.18	52.77	68.20	-15.43	PK
Mode:		802.11ax(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.93	17.18	45.11	54.00	-8.89	AV
V	5350.00	27.29	17.18	44.47	54.00	-9.53	AV

Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.94	17.18	51.12	68.20	-17.08	PK
V	5150.00	33.02	17.18	50.20	68.20	-18.00	PK
Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.47	17.18	44.65	54.00	-9.35	AV
V	5150.00	25.45	17.18	42.63	54.00	-11.37	AV
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.61	17.18	51.79	68.20	-16.41	PK
V	5350.00	34.79	17.18	51.97	68.20	-16.23	PK
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.81	17.18	44.99	54.00	-9.01	AV
V	5350.00	24.98	17.18	42.16	54.00	-11.84	AV

Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.68	17.18	50.86	68.20	-17.34	PK
V	5150.00	36.17	17.18	53.35	68.20	-14.85	PK
Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.91	17.18	44.09	54.00	-9.91	AV
V	5150.00	25.93	17.18	43.11	54.00	-10.89	AV
Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.71	17.18	53.89	68.20	-14.31	PK
V	5350.00	34.72	17.18	51.90	68.20	-16.30	PK
Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	24.84	17.18	42.02	54.00	-11.98	AV
V	5350.00	26.08	17.18	43.26	54.00	-10.74	AV

Mode:		802.11ax(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.05	17.18	53.23	68.20	-14.97	PK
V	5150.00	35.61	17.18	52.79	68.20	-15.41	PK

Mode:		802.11ax(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.02	17.18	43.20	54.00	-10.80	AV
V	5150.00	26.97	17.18	44.15	54.00	-9.85	AV

Mode:		802.11ax(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.51	17.18	54.69	68.20	-13.51	PK
V	5350.00	35.67	17.18	52.85	68.20	-15.35	PK

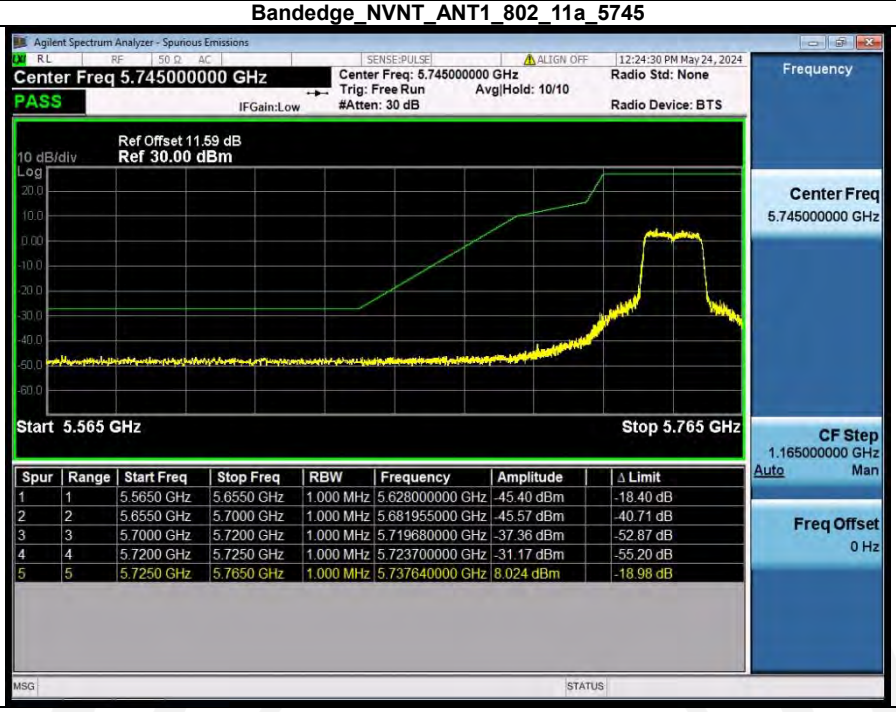
Mode:		802.11ax(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.46	17.18	44.64	54.00	-9.36	AV
V	5350.00	24.01	17.18	41.19	54.00	-12.81	AV

Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	34.05	17.18	51.23	68.20	-16.97	PK
V	5150.00	35.44	17.18	52.62	68.20	-15.58	PK
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.71	17.18	42.89	54.00	-11.11	AV
V	5150.00	23.56	17.18	40.74	54.00	-13.26	AV
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.20	17.18	52.38	68.20	-15.82	PK
V	5350.00	34.25	17.18	51.43	68.20	-16.77	PK
Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.08	17.18	42.26	54.00	-11.74	AV
V	5350.00	27.02	17.18	44.20	54.00	-9.80	AV

Mode:		802.11ax(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.29	17.18	54.47	68.20	-13.73	PK
V	5150.00	36.28	17.18	53.46	68.20	-14.74	PK
Mode:		802.11ax(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.40	17.18	42.58	54.00	-11.42	AV
V	5150.00	26.00	17.18	43.18	54.00	-10.82	AV
Mode:		802.11ax(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.29	17.18	54.47	68.20	-13.73	PK
V	5350.00	37.52	17.18	54.70	68.20	-13.50	PK
Mode:		802.11ax(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	24.55	17.18	41.73	54.00	-12.27	AV
V	5350.00	26.84	17.18	44.02	54.00	-9.98	AV

Band4

Bandedge_NVNT_ANT1_802_11a_5745



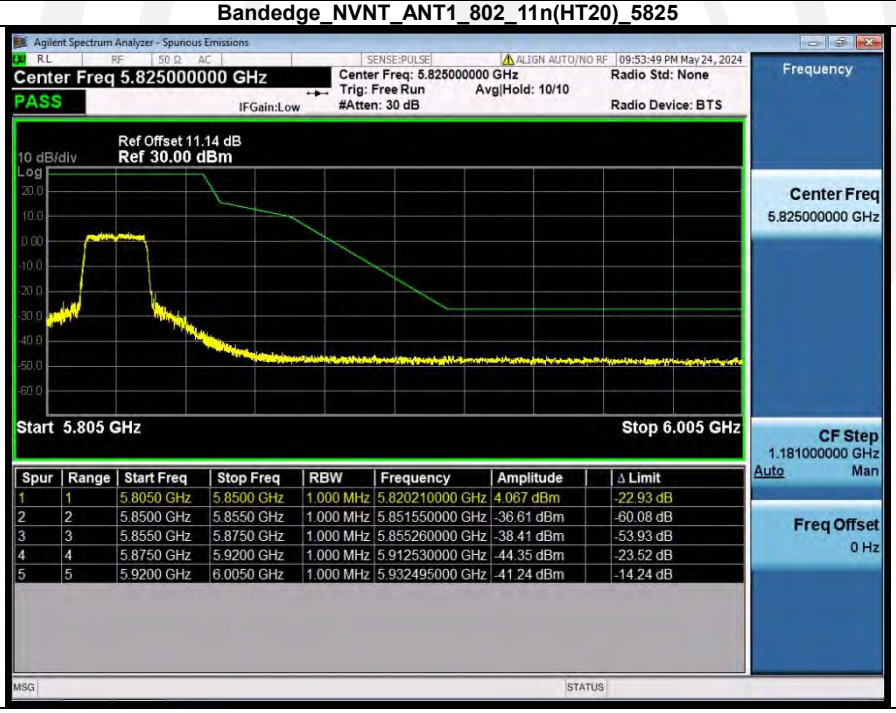
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5650 GHz	5.6550 GHz	1.000 MHz	5.628000000 GHz	-45.40 dBm	-18.40 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.681955000 GHz	-45.57 dBm	-40.71 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.719680000 GHz	-37.36 dBm	-52.87 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.723700000 GHz	-31.17 dBm	-55.20 dB
5	5	5.7250 GHz	5.7650 GHz	1.000 MHz	5.737640000 GHz	8.024 dBm	-18.98 dB

Bandedge_NVNT_ANT1_802_11a_5825

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.818095000 GHz	3.803 dBm	-23.20 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.853045000 GHz	-38.00 dBm	-58.06 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.858620000 GHz	-41.19 dBm	-55.78 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.908750000 GHz	-45.03 dBm	-27.31 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.922805000 GHz	-42.11 dBm	-15.11 dB

Bandedge_NVNT_ANT1_802_11n(HT20)_5745

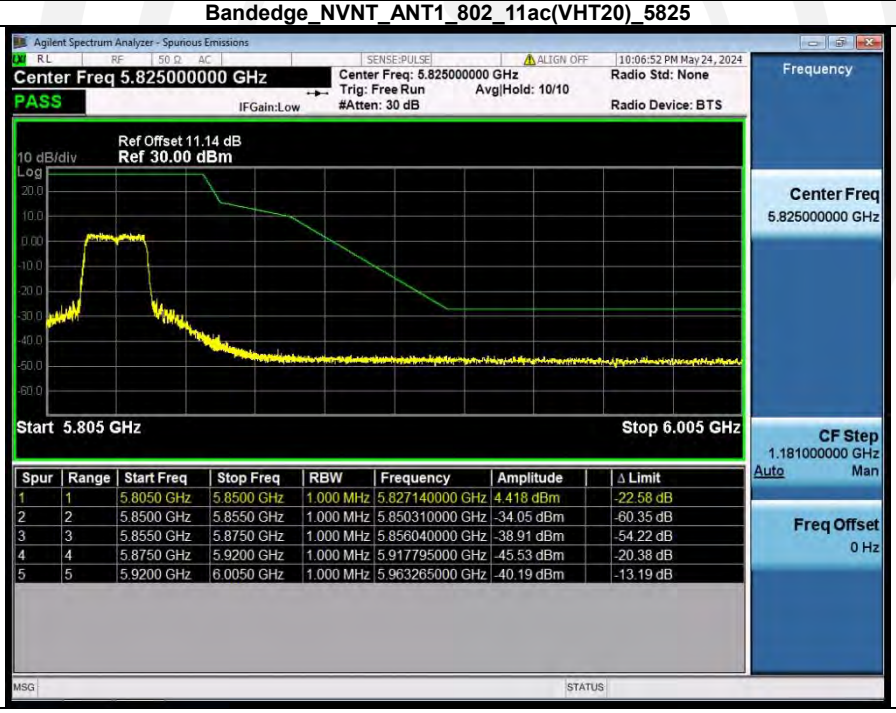
Bandedge_NVNT_ANT1_802_11n(HT20)_5825



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5745

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5650 GHz	5.6550 GHz	1.000 MHz	5.588130000 GHz	-45.14 dBm	-18.14 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.668995000 GHz	-44.95 dBm	-29.44 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.719840000 GHz	-36.15 dBm	-51.70 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.723135000 GHz	-27.97 dBm	-50.71 dB
5	5	5.7250 GHz	5.7650 GHz	1.000 MHz	5.741960000 GHz	9.045 dBm	-17.96 dB

Bandedge_NVNT_ANT1_802_11ac(VHT20)_5825



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.827140000 GHz	4.418 dBm	-22.58 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.850310000 GHz	-34.05 dBm	-60.35 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.856040000 GHz	-38.91 dBm	-54.22 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.917795000 GHz	-45.53 dBm	-20.38 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.963265000 GHz	-40.19 dBm	-13.19 dB

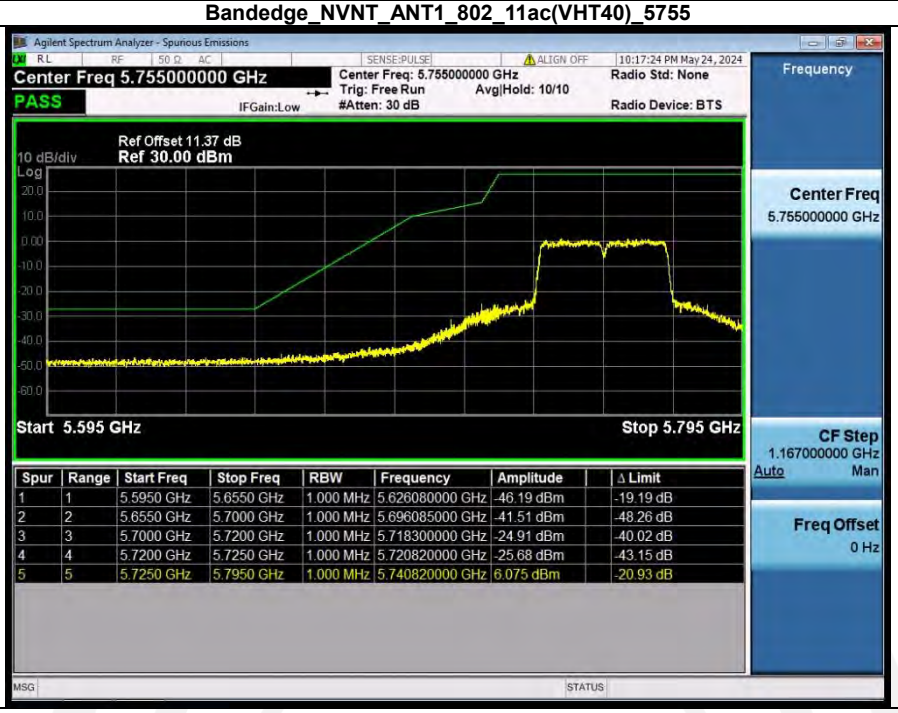
Bandedge_NVNT_ANT1_802_11n(HT40)_5755

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5950 GHz	5.6550 GHz	1.000 MHz	5.654940000 GHz	-45.45 dBm	-18.45 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.694240000 GHz	-41.97 dBm	-47.20 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.718180000 GHz	-28.43 dBm	-43.51 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.721875000 GHz	-25.34 dBm	-45.21 dB
5	5	5.7250 GHz	5.7950 GHz	1.000 MHz	5.747260000 GHz	5.399 dBm	-21.60 dB

Bandedge_NVNT_ANT1_802_11n(HT40)_5795

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7550 GHz	5.8500 GHz	1.000 MHz	5.800980000 GHz	2.207 dBm	-24.79 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.852695000 GHz	-40.44 dBm	-61.30 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.862580000 GHz	-41.61 dBm	-55.09 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.914195000 GHz	-44.43 dBm	-22.23 dB
5	5	5.9200 GHz	5.9550 GHz	1.000 MHz	5.946915000 GHz	-40.29 dBm	-13.29 dB

Bandedge_NVNT_ANT1_802_11ac(VHT40)_5755

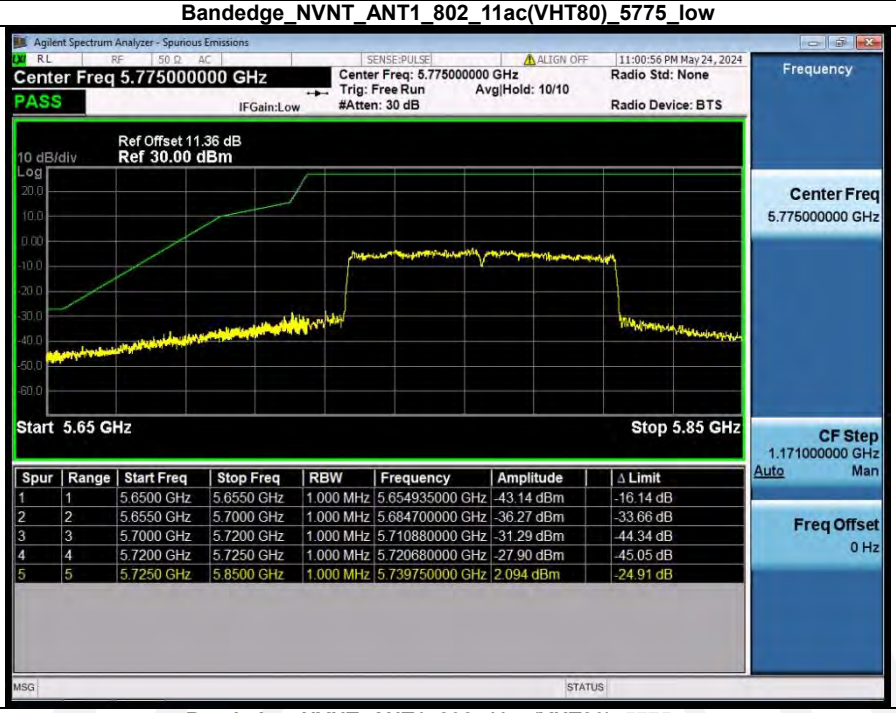


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5950 GHz	5.6550 GHz	1.000 MHz	5.626080000 GHz	-46.19 dBm	-19.19 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.696085000 GHz	-41.51 dBm	-48.26 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.718300000 GHz	-24.91 dBm	-40.02 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.720820000 GHz	-25.68 dBm	-43.15 dB
5	5	5.7250 GHz	5.7950 GHz	1.000 MHz	5.740820000 GHz	6.075 dBm	-20.93 dB

Bandedge_NVNT_ANT1_802_11ac(VHT40)_5795

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7550 GHz	5.8500 GHz	1.000 MHz	5.798605000 GHz	1.672 dBm	-25.33 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.852880000 GHz	-40.43 dBm	-60.87 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.860520000 GHz	-41.71 dBm	-55.76 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.915500000 GHz	-44.69 dBm	-21.42 dB
5	5	5.9200 GHz	5.9550 GHz	1.000 MHz	5.939180000 GHz	-42.08 dBm	-15.08 dB

Bandedge_NVNT_ANT1_802_11ac(VHT80)_5775_low



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.6500 GHz	5.6550 GHz	1.000 MHz	5.654935000 GHz	-43.14 dBm	-16.14 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.684700000 GHz	-36.27 dBm	-33.66 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.710880000 GHz	-31.29 dBm	-44.34 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.720680000 GHz	-27.90 dBm	-45.05 dB
5	5	5.7250 GHz	5.8500 GHz	1.000 MHz	5.739750000 GHz	2.094 dBm	-24.91 dB

Bandedge_NVNT_ANT1_802_11ac(VHT80)_5775_up

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7250 GHz	5.8500 GHz	1.000 MHz	5.770875000 GHz	-2.395 dBm	-29.39 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.853545000 GHz	-35.48 dBm	-54.41 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.865820000 GHz	-36.95 dBm	-49.52 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.879185000 GHz	-41.78 dBm	-48.34 dB
5	5	5.9200 GHz	5.9250 GHz	1.000 MHz	5.921235000 GHz	-40.77 dBm	-13.77 dB

Bandedge_NVNT_ANT1_802_11ax(HE20)_5745

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5650 GHz	5.6550 GHz	1.000 MHz	5.649060000 GHz	-45.83 dBm	-18.83 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.662650000 GHz	-45.67 dBm	-24.96 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.719700000 GHz	-38.22 dBm	-53.73 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.723195000 GHz	-28.74 dBm	-51.62 dB
5	5	5.7250 GHz	5.7650 GHz	1.000 MHz	5.740640000 GHz	7.538 dBm	-19.46 dB

Bandedge_NVNT_ANT1_802_11ax(HE20)_5825

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.822145000 GHz	3.019 dBm	-23.98 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.852045000 GHz	-37.48 dBm	-59.83 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.858380000 GHz	-40.03 dBm	-54.68 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.917795000 GHz	-45.23 dBm	-20.08 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.995055000 GHz	-41.42 dBm	-14.42 dB

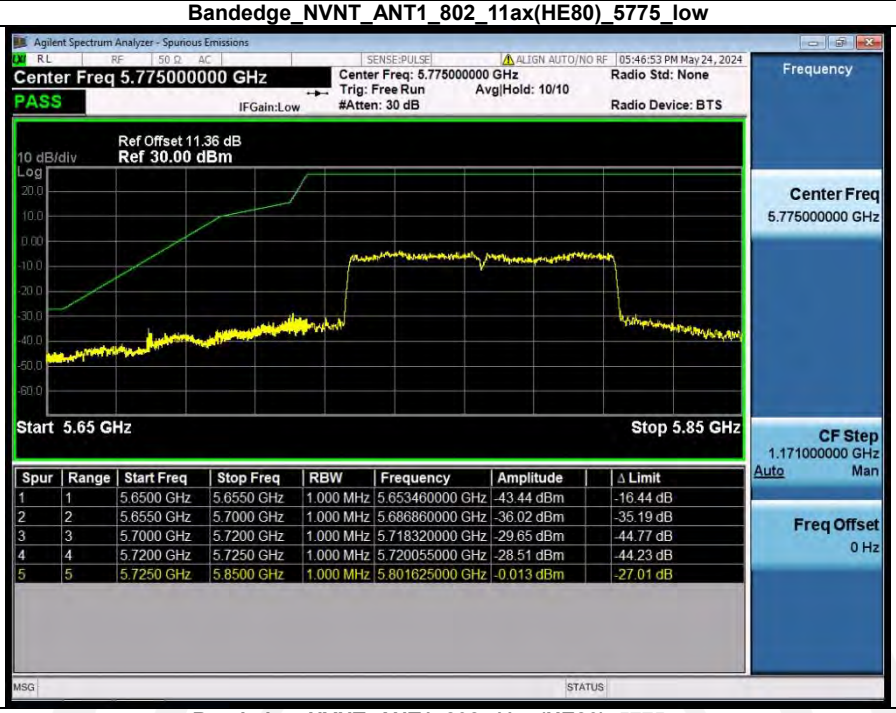
Bandedge_NVNT_ANT1_802_11ax(HE40)_5755

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5950 GHz	5.6550 GHz	1.000 MHz	5.654160000 GHz	-45.91 dBm	-18.91 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.691090000 GHz	-42.42 dBm	-45.06 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.718500000 GHz	-26.56 dBm	-41.73 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.720290000 GHz	-26.79 dBm	-43.05 dB
5	5	5.7250 GHz	5.7950 GHz	1.000 MHz	5.740820000 GHz	4.452 dBm	-22.55 dB

Bandedge_NVNT_ANT1_802_11ax(HE40)_5795

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7550 GHz	5.8500 GHz	1.000 MHz	5.806300000 GHz	-0.142 dBm	-27.14 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854250000 GHz	-39.21 dBm	-56.53 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.859300000 GHz	-41.07 dBm	-55.46 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.895070000 GHz	-44.59 dBm	-38.11 dB
5	5	5.9200 GHz	5.9550 GHz	1.000 MHz	5.929835000 GHz	-40.33 dBm	-13.33 dB

Bandedge_NVNT_ANT1_802_11ax(HE80)_5775_low



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.6500 GHz	5.6550 GHz	1.000 MHz	5.653460000 GHz	-43.44 dBm	-16.44 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.686860000 GHz	-36.02 dBm	-35.19 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.718320000 GHz	-29.65 dBm	-44.77 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.720055000 GHz	-28.51 dBm	-44.23 dB
5	5	5.7250 GHz	5.8500 GHz	1.000 MHz	5.801625000 GHz	-0.013 dBm	-27.01 dB

Bandedge_NVNT_ANT1_802_11ax(HE80)_5775_up

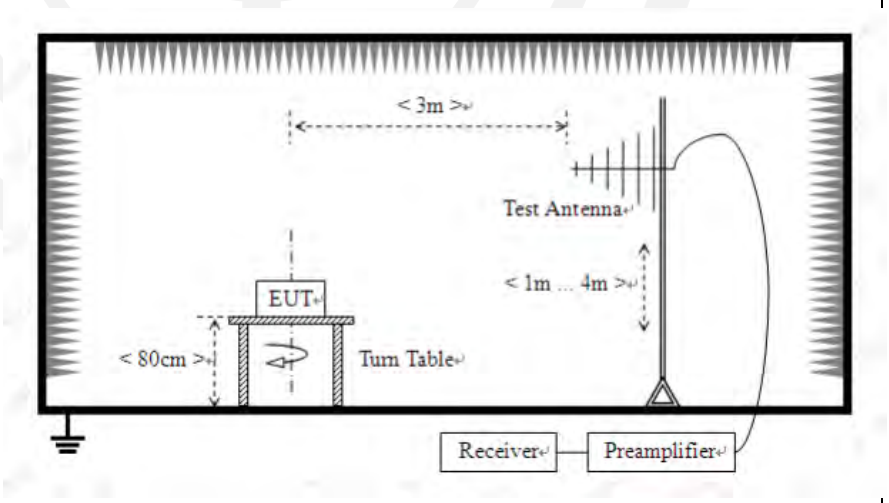
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.7250 GHz	5.8500 GHz	1.000 MHz	5.802250000 GHz	-3.561 dBm	-30.56 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854025000 GHz	-33.90 dBm	-51.73 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.859840000 GHz	-34.54 dBm	-48.79 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.885935000 GHz	-42.71 dBm	-43.73 dB
5	5	5.9200 GHz	5.9250 GHz	1.000 MHz	5.924800000 GHz	-40.27 dBm	-13.27 dB

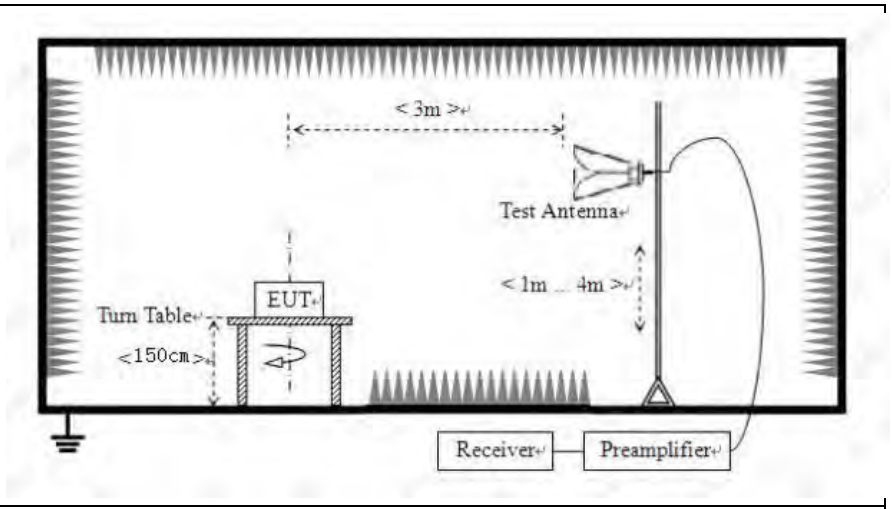
4.7 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 40GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>74.0</td><td>Peak Value</td></tr>
<tr><td>54.0</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>
Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:

1>.Below 1GHz test procedure:
1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

2>.Above 1GHz test procedure:
1. On the test site as test setup graph above,the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver.
3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the
</td></tr>
</table>

	transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	Below 1GHz  Above 1GHz

	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data:

Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.74	48.16	11.60	0.94	30.43	30.27	40	-9.73	Vertical
54.92	41.21	11.99	0.87	30.02	24.05	40	-15.95	Vertical
121.07	46.86	9.54	1.50	29.71	28.18	43.5	-15.32	Vertical
172.26	42.96	8.99	2.19	29.80	24.35	43.5	-19.15	Vertical
441.10	37.48	16.41	3.17	29.53	27.54	46	-18.46	Vertical
860.68	33.06	22.10	4.96	29.41	30.71	46	-15.29	Vertical
64.59	35.81	8.84	1.01	30.00	15.67	40	-24.33	Horizontal
100.42	33.58	12.19	1.65	30.16	17.26	43.5	-26.24	Horizontal
270.11	46.01	12.86	2.55	30.12	31.30	46	-14.70	Horizontal
350.82	37.11	14.53	2.65	29.76	24.52	46	-21.48	Horizontal
628.24	36.28	19.86	4.26	29.70	30.70	46	-15.30	Horizontal
955.70	40.67	22.87	5.39	29.43	39.50	46	-6.50	Horizontal

Above 1GHz:

802.11a 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.71	50.34	11.28	14.99	32.75	43.86	74	-30.14	Vertical
15540.12	51.97	11.96	17.78	34.59	47.11	74	-26.89	Vertical
10360.25	52.69	9.55	14.86	33.12	43.99	74	-30.01	Horizontal
15540.88	53.44	8.84	17.80	34.50	45.58	74	-28.42	Horizontal

802.11a 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.05	50.47	11.35	15.02	33.07	43.77	74	-30.23	Vertical
15540.57	51.23	11.96	17.84	34.72	46.30	74	-27.70	Vertical
10360.94	52.13	9.66	14.63	32.85	43.57	74	-30.43	Horizontal
15540.45	53.95	8.97	17.91	34.52	46.30	74	-27.70	Horizontal

802.11a 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.68	50.62	11.55	14.88	32.83	44.21	74	-29.79	Vertical
15540.06	51.45	12.10	17.87	34.82	46.61	74	-27.39	Vertical
10361.00	52.08	9.55	14.69	32.91	43.41	74	-30.59	Horizontal
15540.63	53.81	8.55	17.78	34.48	45.66	74	-28.34	Horizontal

802.11n(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.01	50.91	11.34	15.03	32.98	44.30	74	-29.70	Vertical
15540.51	51.56	12.20	17.74	34.55	46.96	74	-27.04	Vertical
10360.36	52.95	9.85	14.65	32.70	44.75	74	-29.25	Horizontal
15540.36	53.25	8.67	18.13	34.79	45.26	74	-28.74	Horizontal

802.11n(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.20	50.32	11.52	14.98	32.91	43.91	74	-30.09	Vertical
15540.57	51.06	12.40	17.67	34.64	46.50	74	-27.50	Vertical
10360.57	52.05	9.52	15.01	32.96	43.62	74	-30.38	Horizontal
15540.19	53.87	8.99	17.87	34.78	45.95	74	-28.05	Horizontal

802.11n(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.45	50.82	11.48	14.64	33.05	43.88	74	-30.12	Vertical
15540.54	51.60	12.41	17.94	34.46	47.48	74	-26.52	Vertical
10360.27	52.09	9.59	15.02	32.73	43.98	74	-30.02	Horizontal
15540.92	53.45	8.68	17.89	34.53	45.48	74	-28.52	Horizontal

802.11ac(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.91	50.82	11.41	14.88	33.02	44.09	74	-29.91	Vertical
15540.60	51.59	12.25	18.00	34.59	47.25	74	-26.75	Vertical
10360.10	52.88	9.51	14.81	32.69	44.51	74	-29.49	Horizontal
15540.68	53.90	8.69	17.95	34.72	45.81	74	-28.19	Horizontal

802.11ac(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.96	50.94	11.49	14.74	33.12	44.04	74	-29.96	Vertical
15540.93	51.21	11.99	17.74	34.62	46.32	74	-27.68	Vertical
10360.68	52.24	9.66	14.96	32.72	44.14	74	-29.86	Horizontal
15540.32	53.64	8.71	18.16	34.92	45.59	74	-28.41	Horizontal

802.11ac(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.97	50.82	11.23	14.92	32.84	44.14	74	-29.86	Vertical
15540.86	51.12	12.05	18.00	34.82	46.34	74	-27.66	Vertical
10360.05	52.07	9.67	14.92	33.11	43.55	74	-30.45	Horizontal
15540.27	53.14	8.85	18.09	34.88	45.19	74	-28.81	Horizontal

802.11n(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.83	50.80	11.56	14.83	32.70	44.49	74	-29.51	Vertical
15540.68	51.24	11.97	17.89	34.81	46.29	74	-27.71	Vertical
10360.56	52.21	9.65	14.67	32.88	43.66	74	-30.34	Horizontal
15540.12	53.22	8.65	17.96	34.80	45.03	74	-28.97	Horizontal

802.11n(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.38	50.23	11.57	14.73	32.87	43.67	74	-30.33	Vertical
15540.31	51.54	11.97	17.69	34.57	46.62	74	-27.38	Vertical
10360.27	52.67	9.42	14.68	32.72	44.06	74	-29.94	Horizontal
15540.75	53.79	8.75	17.90	34.54	45.89	74	-28.11	Horizontal

802.11ac(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.99	50.55	11.60	14.68	32.76	44.07	74	-29.93	Vertical
15540.57	51.40	12.01	17.82	34.79	46.43	74	-27.57	Vertical
10360.57	52.33	9.43	14.64	32.77	43.63	74	-30.37	Horizontal
15540.63	53.34	8.58	17.88	34.47	45.32	74	-28.68	Horizontal

802.11ac(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.77	50.02	11.66	14.71	32.75	43.64	74	-30.36	Vertical
15540.77	51.92	11.95	17.90	34.76	47.01	74	-26.99	Vertical
10360.02	52.00	9.47	14.74	32.86	43.35	74	-30.65	Horizontal
15540.09	53.13	8.61	17.78	34.49	45.03	74	-28.97	Horizontal

802.11ax20 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.85	50.69	11.50	14.82	32.70	44.32	74	-29.68	Vertical
15540.54	51.80	12.02	18.13	34.47	47.48	74	-26.52	Vertical
10360.67	52.22	9.77	14.76	32.85	43.91	74	-30.09	Horizontal
15540.57	53.84	8.59	17.78	34.69	45.51	74	-28.49	Horizontal

802.11ax20 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.34	50.17	11.41	15.04	32.85	43.78	74	-30.22	Vertical
15540.79	51.33	12.12	18.03	34.72	46.76	74	-27.24	Vertical
10360.94	52.81	9.57	14.89	32.89	44.37	74	-29.63	Horizontal
15540.33	53.96	8.71	17.78	34.58	45.88	74	-28.12	Horizontal