

OTHER (EMC / HAC / Software)					
PAG Item Description	PAG List Item	Equipment Code(s)	TC Number(s)	Exhibit Category	Additional details
U-NII devices authorized in- U-NII-4 band 5.850-5.895 GHz and channels that span U-NII-3 and U-NII-4 Bands under Part 15 Subpart E.	UN5GHZ	NII		<p>Test Report</p> <p>EIRP was measured for channel power and PSD for channels fully or partially contained in the UNII-4 band. For straddle channels they tested both radiated and conducted power / PSD and compared to UNII-4 radiated and UNII 3 conducted limits. EIRP was calculated from conducted power plus antenna gain.</p> <p>Refer to following sections for power measurements:</p> <ul style="list-style-type: none"> • Test Report-KR22-SRF0170_05115 NP345XNA_NII_1of2 page 17, 21-23 for EIRP power; • Test Report-KR22-SRF0170_05115 NP345XNA_NII_ax pages 41, 43, 45 for EIRP in UNII-3; 48 – 51 in UNII 4 <p>Refer to following sections for PSD measurements:</p> <ul style="list-style-type: none"> • Test Report-KR22-SRF0170_05115 NP345XNA_NII_1of2 page 26, 29 for EIRP PSD; • Test Report-KR22-SRF0170_05115 NP345XNA_NII_ax page 69-72 for EIRP PSD in UNII4 band, including channels that straddle UNII3/4. <p>All measurements are dBm/MHz for comparison with UNII 4 limits. PSD per 500kHz also recorded for UNII 3 channels.</p> <p>Antenna gain information is based on system manufacturer test report for antenna installed in the device, refer to test report exhibit Antenna report[wifi0&wifi1]_NP345XNA_r02 and test set up photos exhibit Test Setup Photos Appendix_Antenna report photo_NP345XNA_r01. The Part 15 test report uses the appropriate peak gain values from the antenna exhibit.</p> <p>Attestation Letter</p> <p>MIMO antenna gain calculations are provided on page 10 section 3.2 of Test Report-KR22-SRF0170_05115 NP345XNA_NII_1of2. MIMO antenna gain calculations are provided on page 10 section 3.2 of Test Report-KR22-SRF0170_05115 NP345XNA_NII_ax.</p> <p>Refer to attestation letter UNII-4-Attestation-letter_NP345XNA for the grantee attestations as required by KDB 291704</p> <p>Label / User Manual</p> <p>The grant conditions will confirm that the listed powers are conducted for UNII 1, 2A, 2C and 3 and EIRP for UNII-4. We will use the grant note EP for UNII-4 line entries.</p> <p>Client device, indoor use only limitations not required for label / manual.</p>	
Test Data Reuse					Not applicable – this is the parent model.

U-NII devices authorized in U-NII bands 5.925-7.125 GHz (Wi-Fi 6E), PAG ITEM UN6GHZ, Equipment Code 6XD	
This is a portable client device requesting approval under equipment code 6XD for indoor client operations.	
Attestation Letter	Refer to attestation letter WiFi6e Attestation letter NP345XNA for the grantee attestations.
Label	This is a client-only device, Indoor Use Only warning is not required
Internal Photos and/or External Photos Test report	Antenna Gain information Antenna gain information is based on system manufacturer test report for antenna installed in the device, refer to test report exhibit Antenna report[wifi0&wifi1]_NP345XNA_r02 and test set up photos exhibit Test Setup Photos Appendix Antenna report photo NP345XNA_r01 . The Part 15 test report uses the appropriate peak gain values from the antenna exhibit.
Test Report	Test report exhibit Test Report-KR22-SRF0176_05115 NP345XNA_WiFi6E 6XD r01 <ul style="list-style-type: none"> • PSD meets 15.407(b)(6) – section 7.2 page 32 and is the sum of the conducted PSD on each transmit chain and directional antenna gain, measurements on SU and various RU allocations for 802.11ax; • Mask based on Full RU for 802.11ax / OFDMA. Partial RU also tested. Top of mask adjusted to top of signal – start on page 23 of the appendix to the report Test Report-Appendix B[FCC Test plots UNII 802.11ax WLAN 6E]_1of3 and continue through Test Report-Appendix B[FCC Test plots UNII 802.11ax WLAN 6E]_2of3 and Test Report-Appendix B[FCC Test plots UNII 802.11ax WLAN 6E]_3of3; • RBW used for mask was >= required measurement bandwidth (lab used same bandwidths as used for 26dB bandwidth measurements); • Width of mask based on nominal channel bandwidth (note 1 on page 58 of the report). This is acceptable as it is <= 26dB bandwidth; • 99% bandwidth contained within the allocated band for indoor operations page 52 shows 99% bandwidth < nominal channel bandwidth and all channels are contained within the UNII-5 through UNII-8 bands; • 99% bandwidth contained within the allocated band for outdoor operations- not applicable to this device, indoor client only. • Spurious emissions: <ul style="list-style-type: none"> ○ Correct antenna height range used per ANSI C63.10 – page 73 (section 7.7) ○ Tested in X/Y/Z orientations – not applicable, laptop notebook PC tested in one orientation. • MIMO devices – the antenna gain calculations to determine aggregate gain are in section 3.2 page 9 of test report exhibit Test Report-KR22-SRF0176_05115 NP345XNA_WiFi6E 6XD r01. The section includes the formula used and a sample calculation.
Test Report	CBP - test report exhibit Test Report-KR22-SRF0176_05115 NP345XNA_WiFi6E 6XD r01 section 7.6 on page 62 <ul style="list-style-type: none"> • Performed on one channel in each sub-band of operation for both narrowest and widest bandwidths – test results starting on page 66 show data for narrowest (20Mhz) and widest (160MHz) bandwidths • 10 MHz wide AWGN signal is used - page 68 for plot of signal <ul style="list-style-type: none"> ○ 160MHz channel tested with three different AWGN signals at lower, upper and center of channel – test results starting on page 66 show three incumbent device frequencies for each 160MHz channel • Detection threshold adjusted to consider lowest gain antenna (Note 2 on page 65 lists the antenna gains and calculates the minimum threshold based on lowest gain across both chains) <ul style="list-style-type: none"> ○ MIMO device – detection threshold is evaluated based on lowest gain antenna value for all chains ○ Report includes calculation showing the Required Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB) on page 65 • Lowest detection level is reported for each test – see table on page 66 showing minimum detection level meeting the 90% detection rate (listed as Tx Status OFF), point at which some detection occurs (Tx Status listed as Minimal) and point at which no detection occurs (Tx Status listed as OFF). Also refer to note at foot of table on page 67. • Test is performed by starting at a level much lower than required detection level and then increased – step 6 on page 64 • Plots showing device stopped transmitting – pages 69-72 • Channel puncturing / bandwidth reduction: Not supported
Attestation Letter	Client Device Refer to attestation letter WiFi6e Attestation letter NP345XNA for the grantee attestations including: <ul style="list-style-type: none"> • confirming that the device will not connect directly to other clients and does not have its own direct internet connection; • device can only operate under the control of a low-power indoor access point and subordinate in all bands. <p>User manual and label statements related to indoor use only restrictions do not apply to client devices.</p>
RF Exposure exhibit	RF Exposure Classification is portable, this is consistent with intended use. Simultaneous transmissions with other co-located transmitters is addressed by PAG item OVER6G
Software Security Exhibit	Operational Description Exhibit U-NII Device SW Security Statement NP345XNA contains the 15.407(i) security information.