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802.11n 20MHz Chain0 5300MHz 802.11n 20MHz Chain0 5580MHz KEYSIGHT Input RF Ting: Free Run Center Freq: 5:30 Gate: Off Avg() told: 10/10 KEYSIGHT Input RI Trig: Free Run Center Free; 5.580 Gate: Off Avgil told: 10/10 ME Claim Love Resto Std. Nove. Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.30000 GHz IRes BW 220.00 kHz Occupied Bandwidth 17.592 MHz Occupied Bandwidth 17.583 MHz Total Power 25.0 dBm Total Power 25.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth () () Mar 12, 2021 () 3:00:13 PM ■ ? Mar 11, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11n 20MHz Chain0 5320MHz 802.11n 20MHz Chain0 5700MHz KEYSIGHT Input RF KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Occupied Bandwidth 17.575 MHz Occupied Bandwidth 17.596 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 19 C ■ ? Mar 12, 2021 ● .:: 🕦 🗏 🗙 431.56 PM .:: 🕦 -- X 802.11n 20MHz Chain0 5500MHz 802.11n 20MHz Chain0 5720MHz KEYSIGHT Input RF Input Z: 50 O Input 2: 50 0 KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz

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24.2 dBm

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Occupied Bandwidth 17.587 MHz

■ ? Mar 11, 2021 ●

Transmit Freq Error x dB Bandwidth

Occupied Bandwidth 17,580 MHz

■ ? Mar 11, 2021 ●



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802.11n 20MHz Chain0 5745MHz 802.11n 20MHz Chain1 5180MHz KEYSIGHT Input RE KEYSIGHT Input R Ting: Free Run Conter Freq: 5.188 Gate: Off Avg() fold: 10/10 Bit Class Loss Parts Strt Moore Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.74500 GHz IRes BW 100.00 kHz Occupied Bandwidth 19.612 MHz Occupied Bandwidth 17,585 MHz Total Power 31.9 dBm Total Power 25.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth 4:40:44 PM ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 -- X 802.11n 20MHz Chain0 5785MHz 802.11n 20MHz Chain1 5220MHz KEYSIGHT Input RF KEYSIGHT Input RF Settings Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Occupied Bandwidth 17.591 MHz Occupied Bandwidth 22.531 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB 44438 PM .:: 🕦 🗏 🗙 1 5 C 1 ? Mar 12, 2021 .:: 🕦 -- X 802.11n 20MHz Chain0 5825MHz 802.11n 20MHz Chain1 5240MHz KEYSIGHT Input RF Input Z: 50 O neut 2: 50 Ω KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dE CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 22,592 MHz Occupied Bandwidth 17.598 MHz 32.1 dBm 25.2 dBm Transmit Freq Error x dB Bandwidth

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448.34 PM

■ ? Mar 12, 2021 ●



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802.11n 40MHz Chain0 5755MHz 802.11n 40MHz Chain1 5230MHz KEYSIGHT Input RS KEYSIGHT Input R Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.75500 GHz IRes BW 100.00 kHz Occupied Bandwidth 36.176 MHz Occupied Bandwidth 36.083 MHz Total Power 30.5 dBm Total Power 26.5 dBm Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth () () Mar 12, 2021 () 9:19:14 AM ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 -- X 802.11n 40MHz Chain0 5795MHz 802.11n 40MHz Chain1 5270MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Ref LvI Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandwidth 36,404 MHz Occupied Bandwidth 36.054 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🗏 🗙 1 5 C 1 ? Mar 12, 2021 .:: 🕦 -- X 802.11n 40MHz Chain1 5190MHz 802.11n 40MHz Chain1 5310MHz KEYSIGHT Input RF Input Z: 50 O Input 2: 50 0 KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 36.022 MHz Occupied Bandwidth 36.005 MHz 25.8 dBm ■ ? Mar 12, 2021 ● .: 👺 🖽 🔀 ■ ? Mar 12, 2021 ■ ? 320.54 PM .:: 👺 🔣 🔀

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802.11n 40MHz Chain1 5510MHz 802.11n 40MHz Chain1 5710MHz KEYSIGHT Input RF Ting: Free Run Center Freq: 5.510 Gate: Off Avgil told: 10/10 KEYSIGHT Input R Ting: Free Run Conter Freq: 5.711 Gate: Off Avg(I lotd: 10/10 Bit Class Loss Butto Stat Messa Scale/Div 10.0 dE Scale/Div 10.0 dE CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.51000 GHz IRes BW 430.00 kHz Occupied Bandwidth 36.012 MHz Occupied Bandwidth 36.072 MHz Total Power 25.4 dBm Total Power 25.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth () () Mar 12, 2021 () 9:01:34 AM ■ 9 C ■ ? Mar 24, 2021 ● .:: 🕦 🖽 💢 .:: ¥ - X 802.11n 40MHz Chain1 5550MHz 802.11n 40MHz Chain1 5755MHz KEYSIGHT Input RF KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Auto Man Auto Man Freq Offs 0 Hz Freq Offse 0 Hz Occupied Bandwidth 36.082 MHz Occupied Bandwidth 36,135 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 1 5 C 1 ? Mar 12, 2021 .:: 🕦 -- X 802.11n 40MHz Chain1 5670MHz 802.11n 40MHz Chain1 5795MHz KEYSIGHT Input RF Input Z: 50 O Input 2: 50 0 KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 36,056 MHz Occupied Bandwidth 36,096 MHz 30.2 dBm Transmit Freq Error x dB Bandwidth ■ ? Mar 12, 2021 ● .: 👺 🖽 🔀 ■ ? Mar 12, 2021 ● 9:23.55 AM .:: 👺 🔣 🔀

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802.11ac 80MHz Chain0 5210MHz 802.11ac 80MHz Chain0 5610MHz KEYSIGHT Input RS KEYSIGHT Input RE Ting: Free Run Center Freq: 5.61 Gate: Off Avg(t) lots: 10/10 But Class Loss Regions: 10/10 Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.21000 GHz IRes BW 820.00 kHz Occupied Bandwidth 75.341 MHz Occupied Bandwidth 75.282 MHz Total Power 25.8 dBm Total Power Transmit Freq Error 57.174 kHz x dB Bandwidth 81.38 MHz Transmit Freq Error x dB Bandwidth ■ 9 C ■ ? Mar 12, 2021 ● ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ac_80MHz_Chain0_5690MHz 802.11ac 80MHz Chain0 5290MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 100.00 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 100.00 MHz Auto Man Auto Man Freq Off: 0 Hz Occupied Bandwidth 75.438 MHz Occupied Bandwidth 75,308 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🗏 🗙 ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 -- X 802.11ac 80MHz Chain0 5530MHz 802.11ac 80MHz Chain0 5775MHz Input Z 50 G hput Z: 50 G KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dE CF Step 10.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 75.350 MHz Occupied Bandwidth 75.391 MHz 23.4 dBm

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■ 10 (■ ? Mar 12, 2021 ● 9:27:43 AM

■ 9 Mar 12, 2021 ● 9,41,29 AM



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802.11ac 80MHz Chain1 5210MHz 802.11ac 80MHz Chain1 5610MHz Trig. Free Run Center Freq. 5.61 Gate: Off Avgil fold: 10/10 KEYSIGHT Input RS KEYSIGHT Input RE Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.21000 GHz IRes BW 820.00 kHz Occupied Bandwidth 75.379 MHz Occupied Bandwidth 75.383 MHz Total Power 26.6 dBm Total Power Transmit Freq Error -99.432 kHz x dB Bandwidth 81.38 MHz Transmit Freq Error x dB Bandwidth ■ 9 C ■ ? Mar 12, 2021 ● ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ac 80MHz Chain1 5290MHz 802.11ac 80MHz Chain1 5690MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 100.00 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 100.00 MHz Auto Man Auto Man Freq Offs 0 Hz Occupied Bandwidth 75,165 MHz Occupied Bandwidth 75,316 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 19 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 -- X 802.11ac 80MHz Chain1 5530MHz 802.11ac 80MHz Chain1 5775MHz hput Z: 50 G KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 75.150 MHz Occupied Bandwidth 75.423 MHz 22.5 dBm Transmit Freq Error x dB Bandwidth

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■ ? Mar 12, 2021 ● 9.42.03 AM



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802.11ax 20MHz Chain0 5180MHz 802.11ax 20MHz Chain0 5260MHz KEYSIGHT Input RE Ting: Free Run Center Freq: 5.180 Gate: Off Avgil told: 10/10 KEYSIGHT Input RS Ting: Free Run Center Freq: 5.26 Gate: Off Avg() total: 10/10 Butto Stat Mores Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.18000 GHz IRes BW 220.00 kHz Occupied Bandwidth 18.923 MHz Occupied Bandwidth 18.930 MHz Total Power 26.0 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth ■ 9 C ■ ? Mar 12, 2021 ● ■ 9 Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 20MHz Chain0 5220MHz 802.11ax 20MHz Chain0 5300MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Occupied Bandwidth 18.917 MHz Occupied Bandwidth 18.890 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🗏 🗙 ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 -- X 802.11ax 20MHz Chain0 5240MHz 802.11ax 20MHz Chain0 5320MHz Input Z: 50 Ω KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz

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25.8 dBm

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Occupied Bandwidth 18.939 MHz

■ 10 (■ ? Mar 12, 2021 ●

Transmit Freq Error x dB Bandwidth

Occupied Bandwidth 18.906 MHz

■ ? Mar 12, 2021 ● 3.53:08 PM



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802.11ax 20MHz Chain0 5500MHz 802.11ax 20MHz Chain0 5720MHz KEYSIGHT Input RE Ting: Free Run Center Freq: 5.50 Gate: Off Avg(Hold: 10/10 KEYSIGHT Input RS Trig: Free Run Center Free; 5.720 Gate: Off Avgil told: 10/10 Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Res BW 220.00 kH Occupied Bandwidth 18.954 MHz Occupied Bandwidth 18.897 MHz Total Power Total Power 25.7 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth ■ ? Mar 12, 2021 ● ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 20MHz Chain0 5580MHz 802.11ax 20MHz Chain0 5745MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandwidth 18.967 MHz Occupied Bandwidth 22.375 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 1 5 C 1 ? Mar 12, 2021 .:: 🕦 🖽 🗙 802.11ax 20MHz Chain0 5700MHz 802.11ax 20MHz Chain0 5785MHz hput Z: 50 G hput Z: 50 Ω KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Ref LvI Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz

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Occupied Bandwidth 18.894 MHz Transmit Freq Error x dB Bandwidth

■ ? Mar 12, 2021 ●

Occupied Bandwidth 22.335 MHz

■ ? Mar 12, 2021 ■ ? Mar 12, 2021 ●



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802.11ax 20MHz Chain0 5825MHz 802.11ax 20MHz Chain1 5240MHz KEYSIGHT Input RE Ting: Free Run Center Freq: S.825 Gate: Off Avgil told: 10/10 ME Class Love Resto Std Mean KEYSIGHT Input RS Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Center 5.82500 GHz IRes BW 100.00 kHz Occupied Bandwidth 23.090 MHz Occupied Bandwidth 18.945 MHz Total Power 32.3 dBm Total Power 26.0 dBm % of OBW Power x dB Transmit Freq Error -287.25 kHz x dB Bandwidth 18.97 MHz Transmit Freq Error x dB Bandwidth () () Mar 12, 2021 () 10:13:15 AM ■ 9 Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 20MHz Chain1 5180MHz 802.11ax 20MHz Chain1 5260MHz KEYSIGHT Input RF KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandwidth 18.927 MHz Occupied Bandwidth 18,899 MHz Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 -- X 802.11ax 20MHz Chain1 5220MHz 802.11ax 20MHz Chain1 5300MHz Input Z 50 G hput Z: 50 Ω Atten: 30 dB KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 18.942 MHz Occupied Bandwidth 18.927 MHz 25.9 dBm 25.8 dBm Transmit Freq Error x dB Bandwidth

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802.11ax 20MHz Chain1 5320MHz 802.11ax 20MHz Chain1 5700MHz KEYSIGHT Input RE Ting: Free Run Conter Freq: 5.32 Gate: Off Avg(Floid: 10/10 KEYSIGHT Input RS Ting: Free Run Center Freq: 5.70 Gate: Off Avg() tota: 10/10 Till: Claim Lines Runto Stat Money Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset Center 5.32000 GHz #Res BW 220.00 kHz Occupied Bandwidth 18.894 MHz Occupied Bandwidth 18.930 MHz Total Power 25.2 dBm Total Power 23.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error -29,713 kHz x dB Bandwidth 21.15 MHz ■ 10 C ■ ? Mar 12, 2021 ● ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 20MHz Chain1 5500MHz 802.11ax 20MHz Chain1 5720MHz KEYSIGHT Input RF KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Auto Man Auto Man Freq Offse 0 Hz Occupied Bandwidth 18.856 MHz Occupied Bandwidth 18,918 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 1 5 C 1 ? Mar 12, 2021 .:: 🕦 -- X 802.11ax 20MHz Chain1 5580MHz 802.11ax 20MHz Chain1 5745MHz Input Z 50 G hput Z: 50 G KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Freq Ref. Int (S) Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 18.926 MHz Occupied Bandwidth 23.028 MHz 25.0 dBm 33.3 dBm

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802.11ax 20MHz Chain1 5785MHz 802.11ax 40MHz Chain0 5230MHz KEYSIGHT Input RE Ting: Free Run Conter Freq: 5.78 Gate: Off Avg@feld: 10/10 KEYSIGHT Input R Scale/Div 10.0 dE Scale/Div 10.0 dl CF Step 3.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.78500 GHz IRes BW 100.00 kHz Occupied Bandwidth 19.018 MHz Occupied Bandwidth 37.745 MHz Total Power 30.8 dBm Total Power % of OBW Power x dB Transmit Freq Error -25,828 kHz x dB Bandwidth 17.17 MHz Transmit Freq Error x dB Bandwidth () () Mar 12, 2021 () 401:05 PM .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 20MHz Chain1 5825MHz 802.11ax 40MHz Chain0 5270MHz KEYSIGHT Input RF KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Auto Man Auto Man Freq Offse 0 Hz Occupied Bandwidth 37.760 MHz Occupied Bandwidth 22.446 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 404:39 PM .:: 🕦 🖽 🗙 802.11ax 40MHz Chain0 5190MHz 802.11ax 40MHz Chain0 5310MHz Input Z 50 G hput Z: 50 Ω KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 37.752 MHz Occupied Bandwidth 37.679 MHz 25.0 dBm

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802.11ax 40MHz Chain0 5510MHz 802.11ax 40MHz Chain0 5710MHz KEYSIGHT Input RE Ting: Free Run Center Freq: 5.510 Gate: Off Avgil told: 10/10 KEYSIGHT Input R Ting: Free Run Conter Freq: 5.711 Gate: Off Avg(I lotd: 10/10 Bit Class Loss Butto Stat Messa Scale/Div 10.0 dE Scale/Div 10.0 dE CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.51000 GHz IRes BW 430.00 kHz Occupied Bandwidth 37.700 MHz Occupied Bandwidth 37.745 MHz Total Power 25.2 dBm Total Power % of OBW Power x dB Transmit Freq Error -36.109 kHz x dB Bandwidth 40.43 MHz Transmit Freq Error x dB Bandwidth () (Mar 12, 2021 () 10:17:39 AM ■ 9 Mar 12, 2021 ● .:: 🕦 🖽 💢 .:: 🕦 🗆 🔀 802.11ax 40MHz Chain0 5550MHz 802.11ax 40MHz Chain0 5755MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Occupied Bandwidth 37,702 MHz Occupied Bandwidth 37.812 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🕳 🔀 1 5 C 1 ? Mar 12, 2021 .:: 🕦 🖽 🗙 802.11ax 40MHz Chain0 5670MHz 802.11ax 40MHz Chain0 5795MHz Input Z 50 G hput Z: 50 Ω KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz

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Occupied Bandwidth 37.746 MHz

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Transmit Freq Error x dB Bandwidth

Occupied Bandwidth 38.096 MHz

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802.11ax 40MHz Chain1 5190MHz 802.11ax 40MHz Chain1 5310MHz KEYSIGHT Input RS Ting: Free Run Center Freq: 5.190 Gate: Off Avgil told: 10/10 ME Class Love Resto Std Mess KEYSIGHT Input R Ting: Free Run Conter Freq: 5.311 Gate: Off Avg(I lotd: 10/10 Bit Class Loss Butto Stit Messe Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.19000 GHz IRes BW 430.00 kHz Occupied Bandwidth 37.716 MHz Occupied Bandwidth 37.686 MHz Total Power Total Power 25.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth ■ 9 C ■ ? Mar 12, 2021 ● 4:08:45 PM .:: 🕦 🖽 💢 .:: ¥ - X 802.11ax 40MHz Chain1 5230MHz 802.11ax 40MHz Chain1 5510MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50,000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandwidth 37,706 MHz Occupied Bandwidth 37.663 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB 23.071 kHz % of OBW Power x dB 401:40 PM .:: 🕦 🕳 🔀 1 5 C 1 ? Mar 12, 2021 .:: 🕦 -- X 802.11ax 40MHz Chain1 5270MHz 802.11ax 40MHz Chain1 5550MHz Input Z 50 G r + Input Z: 50 Ω Atten: 30 dB KEYSIGHT Input RF R --- Alon Auto KEYSIGHT Input RF Ref Lvl Offset 12.45 dB Ref Value 20.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 37.701 MHz Occupied Bandwidth 37.713 MHz

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802.11ax 40MHz Chain1 5670MHz 802.11ax 40MHz Chain1 5795MHz KEYSIGHT Input RE Ting: Free Run Center Freq: 5.670 Gate: Off Avgil told: 10/10 KEYSIGHT Input R Ting: Free Run Center Freq: 5.79 Gate: Off Avg(81662: 10/10 Bit Claim Love Scale/Div 10.0 dE Scale/Div 10.0 dE CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Center 5.67000 GHz IRes BW 430.00 kHz Occupied Bandwidth 37.731 MHz Occupied Bandwidth 37.694 MHz Total Power Total Power 30.0 dBm % of OBW Power x dB Transmit Freq Error -26,072 kHz x dB Bandwidth 40.65 MHz Transmit Freq Error x dB Bandwidth () (Mar 12, 2021 () 10:26:27 AM ■ ? Mar 12, 2021 ● .:: 🕦 🖽 💢 .: 🕦 🗆 🔀 802.11ax 40MHz Chain1 5710MHz 802.11ax 80MHz Chain0 5210MHz KEYSIGHT Input RE KEYSIGHT Input RF Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 50.000 MHz Ref Lvi Offset 12.45 dB Ref Value 20.00 dBm 100.00 MHz Auto Man Auto Man Freq Offs 0 Hz Freq Offse 0 Hz Occupied Bandwidth 37.824 MHz Occupied Bandwidth 76.968 MHz Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB ■ 9 C ■ ? Mar 12, 2021 ● .:: 🕦 🖽 🗙 4 5 C 2 7 Mar 12, 2021 .:: 🕦 -- X 802.11ax 40MHz Chain1 5755MHz 802.11ax 80MHz Chain0 5290MHz Input Z: 50 G KEYSIGHT Input RF KEYSIGHT Input RF Scale/Div 10.0 dE Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Occupied Bandwidth 37.728 MHz Occupied Bandwidth 77.010 MHz 24.5 dBm Transmit Freq Error x dB Bandwidth

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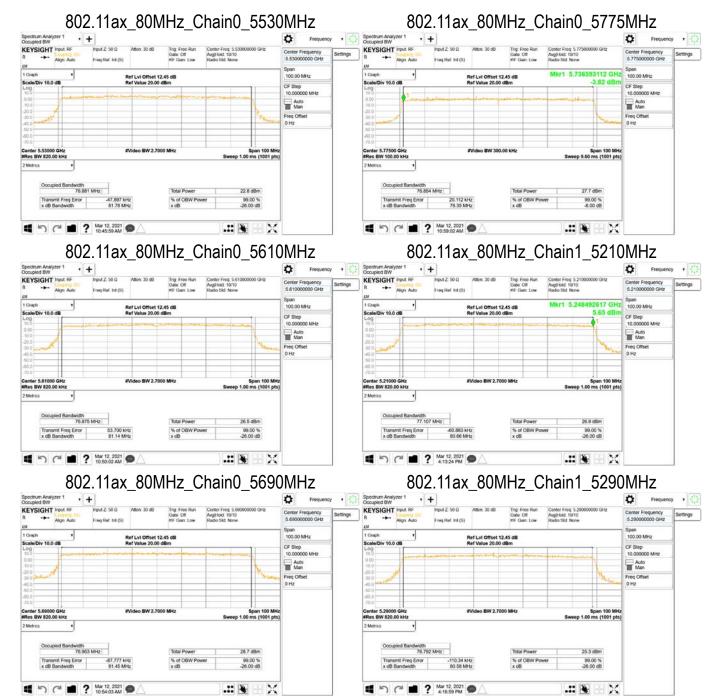
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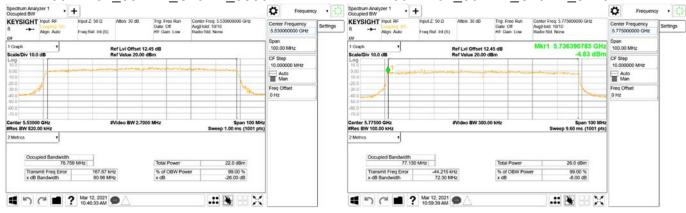
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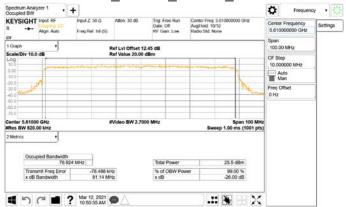
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802.11ax 80MHz Chain1 5530MHz

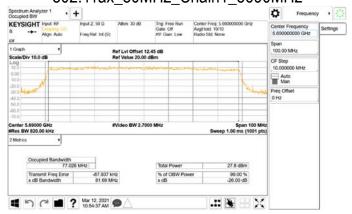
802.11ax 80MHz Chain1 5775MHz



802.11ax 80MHz Chain1 5610MHz



802.11ax 80MHz Chain1 5690MHz



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MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band		EUT CATEGORY	LIMIT
		Access Point (Master device)	1 Watt(30dBm)
U-NII-1		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	\boxtimes	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	\boxtimes		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	\boxtimes		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	\boxtimes		1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

Note: CDD

As per section F. 2). d). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain =
$$10 \log[(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/N_{ANT}] dBi$$

where

NANT = the total number of antennas G is the gain in dBi.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

Beamforming

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream. directional gain may be calculated by either of the following formulas.

$$\bullet \quad Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

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where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

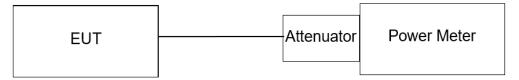
9.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
- 5. Record the max. reading and add 10 log(1/duty cycle).
- 6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

	Conducted E	mission Tes	Site: Conducte	ed 2	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021

9.4 Test Set-up



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9.5 Beamforming Mode Measurement Result

9.5.1 Conducted output power (FCC)

802.11n_HT20_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	17	17.97	62.592		23.98		PASS
44	5220	MCS0	16.5	17.09	51.111		23.98		PASS
48	5240	MCS0	17	17.70	58.819		23.98		PASS
52	5260	MCS0	17	17.87	61.167	23.98	or 11+10log(B) =	24.03	PASS
60	5300	MCS0	17	17.95	62.304	23.98	or 11+10log(B) =	24.04	PASS
64	5320	MCS0	16	16.76	47.371	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS0	15.5	16.19	41.545	23.98	or 11+10log(B) =	24.11	PASS
116	5580	MCS0	16	16.94	49.376	23.98	or 11+10log(B) =	23.98	PASS
140	5700	MCS0	15.5	16.40	43.603	23.98	or 11+10log(B) =	24.08	PASS
144	5720(U-NII 2C)	MCS0	16	15.63	36.58	23.98	or 11+10log(B) =	22.77	PASS
144	5720 (U-NII 3)	MCS0	16	10.88	12.23		30		PASS
149	5745	MCS0	23	23.44	220.555		30		PASS
157	5785	MCS0	23	23.78	238.516		30		PASS
165	5825	MCS0	23	23.38	217.529		30		PASS

802.11n_HT20_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	17	16.97	49.718		23.98		PASS
44	5220	MCS0	16.5	16.64	46.080		23.98		PASS
48	5240	MCS0	17	17.15	51.822		23.98		PASS
52	5260	MCS0	17	17.08	50.994	23.98	or 11+10log(B) =	23.96	PASS
60	5300	MCS0	17	16.96	49.604	23.98	or 11+10log(B) =	24.06	PASS
64	5320	MCS0	16	16.60	45.658	23.98	or 11+10log(B) =	23.99	PASS
100	5500	MCS0	15.5	15.35	34.239	23.98	or 11+10log(B) =	23.94	PASS
116	5580	MCS0	16	16.08	40.506	23.98	or 11+10log(B) =	23.92	PASS
140	5700	MCS0	15.5	15.56	35.935	23.98	or 11+10log(B) =	23.97	PASS
144	5720(U-NII 2C)	MCS0	16	14.75	29.82	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	16	9.94	9.85		30		PASS
149	5745	MCS0	23	23.09	203.478		30		PASS
157	5785	MCS0	23	23.00	199.304		30		PASS
165	5825	MCS0	23	23.06	202.077		30		PASS

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802.11n_HT20_MIMO

CII	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL	TOTAL		REQUIRED		DECULT.
СН	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
36	5180	MCS8	17	17.69	16.64	20.52	112.775		23.98		PASS
44	5220	MCS8	16.5	16.65	16.31	19.81	95.693		23.98		PASS
48	5240	MCS8	17	17.3	16.72	20.35	108.272		23.98		PASS
52	5260	MCS8	17	17.55	16.73	20.48	111.810	23.98	or 11+10log(B) =	23.96	PASS
60	5300	MCS8	17	17.55	16.58	20.42	110.090	23.98	or 11+10log(B) =	24.04	PASS
64	5320	MCS8	16	16.36	16.22	19.62	91.538	23.98	or 11+10log(B) =	23.99	PASS
100	5500	MCS8	15.5	15.89	15.33	18.94	78.424	23.98	or 11+10log(B) =	23.94	PASS
116	5580	MCS8	16	16.7	16.27	19.82	95.847	23.98	or 11+10log(B) =	23.92	PASS
140	5700	MCS8	15.5	16.13	15.66	19.23	83.692	23.98	or 11+10log(B) =	23.97	PASS
144	5720(U-NII 2C)	MCS8	16	15.43	14.69	18.40	69.254	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS8	16	10.67	9.88	13.62	23.034		30		PASS
149	5745	MCS8	23	23.06	22.72	26.22	418.678		30		PASS
157	5785	MCS8	23	23.58	22.65	26.47	443.131		30		PASS
165	5825	MCS8	23	23.13	22.68	26.24	420.368		30		PASS

802.11ac VHT20 Ch0

СН	Frequency	Data	Power	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
011	(MHz)	Rate	set	(dBm)	(mW)		(dBm)		REGOLI
36	5180	MCS0	17	17.81	60.433		23.98		PASS
44	5220	MCS0	16.5	16.95	49.577		23.98		PASS
48	5240	MCS0	17	17.51	56.400		23.98		PASS
52	5260	MCS0	17	17.70	58.922	23.98	or 11+10log(B) =	24.03	PASS
60	5300	MCS0	17	17.74	59.467	23.98	or 11+10log(B) =	24.04	PASS
64	5320	MCS0	16	16.55	45.214	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS0	15.5	16.06	40.390	23.98	or 11+10log(B) =	24.11	PASS
116	5580	MCS0	16	16.78	47.673	23.98	or 11+10log(B) =	23.98	PASS
140	5700	MCS0	15.5	16.21	41.810	23.98	or 11+10log(B) =	24.08	PASS
144	5720(U-NII 2C)	MCS0	16	14.58	28.71	23.98	or 11+10log(B) =	22.77	PASS
144	5720 (U-NII 3)	MCS0	16	9.82	9.60		30		PASS
149	5745	MCS0	23	23.30	213.932		30		PASS
157	5785	MCS0	23	23.60	229.233		30		PASS
165	5825	MCS0	23	23.18	208.102		30		PASS

802.11ac_VHT20_Ch1

802.11ac_	VH 120_Ch1								,
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	17	16.81	48.004		23.98		PASS
44	5220	MCS0	16.5	16.50	44.697		23.98		PASS
48	5240	MCS0	17	17.00	50.151		23.98		PASS
52	5260	MCS0	17	16.93	49.349	23.98	or 11+10log(B) =	23.96	PASS
60	5300	MCS0	17	16.81	48.004	23.98	or 11+10log(B) =	24.06	PASS
64	5320	MCS0	16	16.43	43.982	23.98	or 11+10log(B) =	23.99	PASS
100	5500	MCS0	15.5	15.15	32.755	23.98	or 11+10log(B) =	23.94	PASS
116	5580	MCS0	16	15.93	39.199	23.98	or 11+10log(B) =	23.92	PASS
140	5700	MCS0	15.5	15.41	34.776	23.98	or 11+10log(B) =	23.97	PASS
144	5720(U-NII 2C)	MCS0	16	14.49	28.14	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	16	9.68	9.30		30		PASS
149	5745	MCS0	23	22.96	197.823		30		PASS
157	5785	MCS0	23	22.85	192.875		30		PASS
165	5825	MCS0	23	22.90	195.109		30		PASS

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802.11ac_VHT20_MIMO

	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL	TOTAL		REQUIRED		DEOU! T
СН	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
36	5180	MCS0	17	17.61	16.59	20.36	108.716		23.98		PASS
44	5220	MCS0	16.5	16.58	16.24	19.65	92.180		23.98		PASS
48	5240	MCS0	17	17.26	16.65	20.20	104.683		23.98		PASS
52	5260	MCS0	17	17.49	16.68	20.34	108.067	23.98	or 11+10log(B) =	23.96	PASS
60	5300	MCS0	17	17.48	16.51	20.26	106.050	23.98	or 11+10log(B) =	24.04	PASS
64	5320	MCS0	16	16.35	16.18	19.50	89.102	23.98	or 11+10log(B) =	23.99	PASS
100	5500	MCS0	15.5	15.82	15.29	18.80	75.790	23.98	or 11+10log(B) =	23.94	PASS
116	5580	MCS0	16	16.64	16.21	19.66	92.542	23.98	or 11+10log(B) =	23.92	PASS
140	5700	MCS0	15.5	16.08	15.61	19.08	80.992	23.98	or 11+10log(B) =	23.97	PASS
144	5720(U-NII 2C)	MCS0	16	15.34	14.58	18.21	66.150	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	16	10.58	9.77	13.42	22.002		30		PASS
149	5745	MCS0	23	22.97	22.68	26.06	403.690		30		PASS
157	5785	MCS0	23	23.49	22.61	26.31	427.102		30		PASS
165	5825	MCS0	23	23.08	22.61	26.08	405.921		30		PASS

802.11ax HE20 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
		MCS0	full	17	18.16	65.505		23.98		PASS
26	5400	MCS0	26/0	12	13.14	20.619		23.98		PASS
36	5180	MCS0	52/37	12	13.35	21.641		23.98		PASS
		MCS0	106/53	17	17.91	61.841		23.98		PASS
44	5220	MCS0	full	16.5	17.10	51.319		23.98		PASS
48	5240	MCS0	full	16.5	17.39	54.863		23.98		PASS
52	5260	MCS0	full	17	18.04	63.720	23.98	or 11+10log(B) =	24.27	PASS
60	5300	MCS0	full	16	17.06	50.848	23.98	or 11+10log(B) =	24.21	PASS
		MCS0	full	16	16.89	48.896	23.98	or 11+10log(B) =	24.23	PASS
64	5220	MCS0	26/8	14	14.79	30.149	23.98	or 11+10log(B) =	24.23	PASS
64	5320	MCS0	52/40	13.5	14.61	28.925	23.98	or 11+10log(B) =	24.23	PASS
		MCS0	106/54	17	17.57	57.184	23.98	or 11+10log(B) =	24.23	PASS
		MCS0	full	16	16.76	47.454	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	26/0	12.5	13.18	20.810	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	52/37	13	13.80	24.004	23.98	or 11+10log(B) =	24.15	PASS
		MCS0	106/53	12.5	13.08	20.337	23.98	or 11+10log(B) =	24.15	PASS
116	5580	MCS0	full	16	17.05	50.731	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	full	15	16.05	40.297	23.98	or 11+10log(B) =	24.28	PASS
1.10	5700	MCS0	26/8	10.5	11.55	14.298	23.98	or 11+10log(B) =	24.28	PASS
140	5700	MCS0	52/40	10.5	11.65	14.631	23.98	or 11+10log(B) =	24.28	PASS
		MCS0	106/54	11	11.90	15.498	23.98	or 11+10log(B) =	24.28	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.73	37.446	23.98	or 11+10log(B) =	22.95	PASS
144	5720 (U-NII 3)	MCS0	full	16	11.31	13.519		30		PASS
		MCS0	full	24.5	24.53	283.973		30		PASS
140	F74F	MCS0	26/0	17	18.06	64.014		30		PASS
149	5745	MCS0	52/37	20	20.88	122.540		30		PASS
		MCS0	106/53	19.5	20.19	104.539		30		PASS
157	5785	MCS0	full	23	23.83	241.700		30		PASS
		MCS0	full	24.5	24.65	291.928		30		PASS
165	5025	MCS0	26/8	17	18.11	64.755		30		PASS
165	5825	MCS0	52/40	20.5	21.35	136.545		30		PASS
		MCS0	106/54	19.5	20.25	105.993		30		PASS

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СН	HE20_Ch1 Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
		MCS0	full	17	17.09	51.201		23.98		PASS
26	5400	MCS0	26/0	12	11.97	15.750		23.98		PASS
36	5180	MCS0	52/37	12	12.08	16.154		23.98		PASS
		MCS0	106/53	17	16.68	46.588		23.98		PASS
44	5220	MCS0	full	16.5	16.74	47.236		23.98		PASS
48	5240	MCS0	full	16.5	16.80	47.893		23.98		PASS
52	5260	MCS0	full	17	17.20	52.514	23.98	or 11+10log(B) =	24.13	PASS
60	5300	MCS0	full	16	16.08	40.577	23.98	or 11+10log(B) =	24.20	PASS
		MCS0	full	16	16.64	46.161	23.98	or 11+10log(B) =	24.27	PASS
64	5320	MCS0	26/8	14	14.55	28.528	23.98	or 11+10log(B) =	24.27	PASS
64	5320	MCS0	52/40	13.5	14.20	26.319	23.98	or 11+10log(B) =	24.27	PASS
		MCS0	106/54	17	17.28	53.490	23.98	or 11+10log(B) =	24.27	PASS
		MCS0	full	16	16.24	42.099	23.98	or 11+10log(B) =	24.16	PASS
100	5500	MCS0	26/0	12.5	12.27	16.876	23.98	or 11+10log(B) =	24.16	PASS
100	3300	MCS0	52/37	13	12.78	18.979	23.98	or 11+10log(B) =	24.16	PASS
		MCS0	106/53	12.5	12.13	16.341	23.98	or 11+10log(B) =	24.16	PASS
116	5580	MCS0	full	16	16.48	44.491	23.98	or 11+10log(B) =	24.16	PASS
		MCS0	full	15	15.45	35.098	23.98	or 11+10log(B) =	24.22	PASS
140	5700	MCS0	26/8	10.5	10.43	11.048	23.98	or 11+10log(B) =	24.22	PASS
140	3700	MCS0	52/40	10.5	10.51	11.253	23.98	or 11+10log(B) =	24.22	PASS
		MCS0	106/54	11	10.84	12.142	23.98	or 11+10log(B) =	24.22	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.01	31.728	23.98	or 11+10log(B) =	22.84	PASS
144	5720 (U-NII 3)	MCS0	full	16	10.40	10.957		30		PASS
		MCS0	full	24.5	24.34	271.817		30		PASS
149	5745	MCS0	26/0	17	17.19	52.393		30		PASS
149	5/45	MCS0	52/37	20	20.81	120.580		30		PASS
		MCS0	106/53	19.5	19.89	97.561		30		PASS
157	5785	MCS0	full	23	23.11	204.775		30		PASS
		MCS0	full	24.5	24.28	268.087		30		PASS
165	5825	MCS0	26/8	17	17.79	60.156		30		PASS
103	3623	MCS0	52/40	20.5	21.15	130.400		30		PASS
		MCS0	106/54	19.5	20.04	100.990	<u> </u>	30	<u> </u>	PASS

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802.11ax_HE20_MIMO

802.11ax_HE20_	Frequency	Data	RU config.	Power	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
Сп	(MHz)	Rate	RU comig.	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESULI
		MCS0	full	17	17.96	16.83	20.66	116.539		23.98		PASS
26	5400	MCS0	26/0	12	12.86	11.83	15.61	36.379		23.98		PASS
36	5180	MCS0	52/37	11.5	12.26	11.28	15.03	31.847		23.98		PASS
		MCS0	106/53	14.5	15.12	14.08	17.86	61.152		23.98		PASS
44	5220	MCS0	full	16.5	17.01	16.49	19.99	99.789		23.98		PASS
48	5240	MCS0	full	16.5	17.13	16.66	20.13	103.144		23.98		PASS
52	5260	MCS0	full	17	17.84	16.98	20.66	116.528	23.98	or 11+10log(B) =	24.13	PASS
60	5300	MCS0	full	16	16.84	15.83	19.60	91.146	23.98	or 11+10log(B) =	24.20	PASS
		MCS0	full	16	16.69	16.55	19.85	96.686	23.98	or 11+10log(B) =	24.23	PASS
CA	5320	MCS0	26/8	12.5	13.34	12.47	16.16	41.303	23.98	or 11+10log(B) =	24.23	PASS
64	5320	MCS0	52/40	13	14.17	13.13	16.91	49.137	23.98	or 11+10log(B) =	24.23	PASS
		MCS0	106/54	14.5	15.14	14.27	17.96	62.515	23.98	or 11+10log(B) =	24.23	PASS
		MCS0	full	16	16.62	16.03	19.57	90.533	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	26/0	12	12.54	11.56	15.31	33.968	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	52/37	13	13.92	12.18	16.37	43.347	23.98	or 11+10log(B) =	24.15	PASS
		MCS0	106/53	12	12.67	11.15	15.21	33.184	23.98	or 11+10log(B) =	24.15	PASS
116	5580	MCS0	full	16	16.87	16.52	19.93	98.437	23.98	or 11+10log(B) =	24.16	PASS
		MCS0	full	15	15.86	15.28	18.81	76.081	23.98	or 11+10log(B) =	24.22	PASS
140	5700	MCS0	26/8	10.5	11.36	10.08	14.00	25.119	23.98	or 11+10log(B) =	24.22	PASS
140	3700	MCS0	52/40	10.5	11.48	10.26	14.15	25.976	23.98	or 11+10log(B) =	24.22	PASS
		MCS0	106/54	11	11.79	10.38	14.38	27.384	23.98	or 11+10log(B) =	24.22	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.44	14.77	18.35	68.387	23.98	or 11+10log(B) =	22.84	PASS
144	5720 (U-NII 3)	MCS0	full	16	11.02	10.15	13.84	24.194		30		PASS
		MCS0	full	24.5	24.42	24.18	27.53	566.855		30		PASS
149	5745	MCS0	26/0	17	17.82	16.84	20.59	114.568		30		PASS
143	3743	MCS0	52/37	20	20.95	19.81	23.65	231.759		30		PASS
		MCS0	106/53	19.5	19.86	19.84	23.08	203.380		30		PASS
157	5785	MCS0	full	23	23.68	22.85	26.52	448.525		30		PASS
		MCS0	full	24.5	24.54	23.94	27.48	560.198		30		PASS
165	5825	MCS0	26/8	17	17.98	17.38	20.92	123.692		30		PASS
103	3023	MCS0	52/40	20.5	21.12	20.92	24.25	266.331		30		PASS
		MCS0	106/54	19.5	20.34	19.46	23.16	206.791		30		PASS

802.11n_HT40_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	16.5	17.34	54.140		23.98		PASS
46	5230	MCS0	16.5	17.43	55.274		23.98		PASS
54	5270	MCS0	17	18.04	63.609	23.98	or 11+10log(B) =	27.01	PASS
62	5310	MCS0	16.5	17.15	51.822	23.98	or 11+10log(B) =	27.03	PASS
102	5510	MCS0	16.5	17.19	52.302	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	16	16.51	44.722	23.98	or 11+10log(B) =	26.97	PASS
134	5670	MCS0	16.5	17.65	58.146	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	16	16.44	44.05	23.98	or 11+10log(B) =	26.46	PASS
142	5710 (U-NII 3)	MCS0	16	8.11	6.48		30		PASS
151	5755	MCS0	20.5	21.40	137.885		30		PASS
159	5795	MCS0	21	22.34	171.205		30		PASS

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802.11n_HT40_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	16.5	16.54	45.032		23.98		PASS
46	5230	MCS0	16.5	17.12	51.466		23.98		PASS
54	5270	MCS0	17	17.13	51.584	23.98	or 11+10log(B) =	26.92	PASS
62	5310	MCS0	16.5	17.00	50.063	23.98	or 11+10log(B) =	26.91	PASS
102	5510	MCS0	16.5	16.84	48.252	23.98	or 11+10log(B) =	26.91	PASS
110	5550	MCS0	16	16.19	41.545	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	16.5	17.25	53.029	23.98	or 11+10log(B) =	26.94	PASS
142	5710(U-NII 2C)	MCS0	16	15.86	38.51	23.98	or 11+10log(B) =	26.40	PASS
142	5710 (U-NII 3)	MCS0	16	7.15	5.19		30	•	PASS
151	5755	MCS0	20.5	20.70	117.359		30	•	PASS
159	5795	MCS0	21	21.28	134.127		30	•	PASS

802.11n HT40 MIMO

CII	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL	TOTAL		REQUIRED		DECULT.
СН	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
38	5190	MCS8	16.5	17.09	16.56	20.16	103.718		23.98		PASS
46	5230	MCS8	16.5	17.25	16.87	20.39	109.386		23.98		PASS
54	5270	MCS8	17	17.56	16.83	20.54	113.130	23.98	or 11+10log(B) =	26.92	PASS
62	5310	MCS8	16.5	16.86	16.64	20.08	101.786	23.98	or 11+10log(B) =	26.91	PASS
102	5510	MCS8	16.5	16.93	16.51	20.05	101.171	23.98	or 11+10log(B) =	26.91	PASS
110	5550	MCS8	16	16.22	15.87	19.37	86.576	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS8	16.5	17.27	17.05	20.49	111.863	23.98	or 11+10log(B) =	26.94	PASS
142	5710(U-NII 2C)	MCS8	16	16.18	15.61	19.24	83.894	23.98	or 11+10log(B) =	26.40	PASS
142	5710 (U-NII 3)	MCS8	16	7.86	6.91	10.74	11.855		30		PASS
151	5755	MCS8	20.5	21.02	20.45	24.07	255.259		30		PASS
159	5795	MCS8	21	22.01	20.96	24.84	304.939		30		PASS

802.11ac VHT40 Ch0

002.11ac_	VH140_CII0								
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	16.5	17.20	52.514		23.98		PASS
46	5230	MCS0	16.5	17.31	53.861		23.98		PASS
54	5270	MCS0	17	17.90	61.699	23.98	or 11+10log(B) =	27.01	PASS
62	5310	MCS0	16.5	17.01	50.266	23.98	or 11+10log(B) =	27.03	PASS
102	5510	MCS0	16.5	17.06	50.848	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	16	16.33	42.981	23.98	or 11+10log(B) =	26.97	PASS
134	5670	MCS0	16.5	17.43	55.370	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	16	16.31	42.73	23.98	or 11+10log(B) =	26.46	PASS
142	5710 (U-NII 3)	MCS0	16	7.98	6.28		30		PASS
151	5755	MCS0	20.5	21.25	133.437		30		PASS
159	5795	MCS0	21	22.19	165.682		30		PASS

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802.11ac_VHT40_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	16.5	16.40	43.679		23.98		PASS
46	5230	MCS0	16.5	16.97	49.805		23.98		PASS
54	5270	MCS0	17	16.99	50.035	23.98	or 11+10log(B) =	26.92	PASS
62	5310	MCS0	16.5	16.85	48.448	23.98	or 11+10log(B) =	26.91	PASS
102	5510	MCS0	16.5	16.71	46.911	23.98	or 11+10log(B) =	26.91	PASS
110	5550	MCS0	16	16.03	40.112	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	16.5	17.11	51.437	23.98	or 11+10log(B) =	26.94	PASS
142	5710(U-NII 2C)	MCS0	16	15.66	36.84	23.98	or 11+10log(B) =	26.40	PASS
142	5710 (U-NII 3)	MCS0	16	6.96	4.97		30		PASS
151	5755	MCS0	20.5	20.53	113.052		30		PASS
159	5795	MCS0	21	21.09	128.610		30		PASS

802.11ac_VHT40_MIMO

	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL	TOTAL		REQUIRED		
СН	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
38	5190	MCS0	16.5	16.98	16.51	19.98	99.642	/	23.98		PASS
46	5230	MCS0	16.5	17.21	16.84	20.26	106.219		23.98		PASS
54	5270	MCS0	17	17.49	16.78	20.38	109.208	23.98	or 11+10log(B) =	26.92	PASS
62	5310	MCS0	16.5	16.83	16.59	19.94	98.735	23.98	or 11+10log(B) =	26.91	PASS
102	5510	MCS0	16.5	16.87	16.43	19.89	97.468	23.98	or 11+10log(B) =	26.91	PASS
110	5550	MCS0	16	16.13	15.83	19.22	83.477	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	16.5	17.21	16.98	20.33	107.884	23.98	or 11+10log(B) =	26.94	PASS
142	5710(U-NII 2C)	MCS0	16	16.14	15.59	19.11	81.408	23.98	or 11+10log(B) =	26.40	PASS
142	5710 (U-NII 3)	MCS0	16	7.82	6.89	10.61	11.503		30		PASS
151	5755	MCS0	20.5	20.93	20.38	23.90	245.288		30		PASS
159	5795	MCS0	21	21.92	20.87	24.66	292.396		30		PASS

802.11ax_HE40_Ch0

802.11ax_	HE40_Ch0				1		1			1
СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
20	F400	MCS0	full	16.5	17.36	54.485		23.98		PASS
38	5190	MCS0	242/61	13.5	14.58	28.726		23.98		PASS
46	5230	MCS0	full	16.5	17.67	58.516		23.98		PASS
54	5270	MCS0	full	16.5	17.60	57.581	23.98	or 11+10log(B) =	27.08	PASS
62	F210	MCS0	full	16.5	17.36	54.485	23.98	or 11+10log(B) =	27.06	PASS
62	5310	MCS0	242/62	16	16.67	46.481	23.98	or 11+10log(B) =	27.06	PASS
102	FF10	MCS0	full	15	15.96	39.471	23.98	or 11+10log(B) =	27.00	PASS
102	5510	MCS0	242/61	12	12.87	19.377	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	full	16	16.59	45.633	23.98	or 11+10log(B) =	27.05	PASS
124	F.C70	MCS0	full	16	17.15	51.913	23.98	or 11+10log(B) =	27.05	PASS
134	5670	MCS0	242/62	12	13.19	20.858	23.98	or 11+10log(B) =	27.05	PASS
142	5710(U-NII 2C)	MCS0	full	16	16.51	44.728	23.98	or 11+10log(B) =	26.46	PASS
142	5710 (U-NII 3)	MCS0	full	16	8.19	6.591		30		PASS
454	F7FF	MCS0	full	20.5	21.44	139.404		30		PASS
151	5755	MCS0	242/61	16	17.16	52.033		30		PASS
150	F70F	MCS0	full	21	22.38	173.092		30	·	PASS
159	5795	MCS0	242/62	15.5	16.96	49.691		30		PASS

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802.11ax HE40 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	F100	MCS0	full	16.5	16.59	45.633		23.98		PASS
36	5190	MCS0	242/61	13.5	13.41	21.942		23.98		PASS
46	5230	MCS0	full	16.5	17.13	51.675		23.98		PASS
54	5270	MCS0	full	16.5	16.87	48.672	23.98	or 11+10log(B) =	27.04	PASS
62	F210	MCS0	full	16.5	17.05	50.731	23.98	or 11+10log(B) =	27.05	PASS
62	5310	MCS0	242/62	16	16.64	46.161	23.98	or 11+10log(B) =	27.05	PASS
102	FF10	MCS0	full	15	15.43	34.936	23.98	or 11+10log(B) =	27.06	PASS
102	5510	MCS0	242/61	12	12.20	16.606	23.98	or 11+10log(B) =	27.06	PASS
110	5550	MCS0	full	16	16.16	41.331	23.98	or 11+10log(B) =	27.05	PASS
124	F.C.7.0	MCS0	full	16	16.77	47.564	23.98	or 11+10log(B) =	27.08	PASS
134	5670	MCS0	242/62	12	13.00	19.965	23.98	or 11+10log(B) =	27.08	PASS
142	5710(U-NII 2C)	MCS0	full	16	15.82	38.191	23.98	or 11+10log(B) =	26.45	PASS
142	5710 (U-NII 3)	MCS0	full	16	7.39	5.489		30		PASS
151	F.7F.F	MCS0	full	20.5	20.73	118.379		30		PASS
151	5755	MCS0	242/61	16	16.85	48.448		30		PASS
150	F70F	MCS0	full	21	21.20	131.910		30		PASS
159	5795	MCS0	242/62	15.5	16.03	40.112		30		PASS

СН	Frequency	Data	RU config.	Power	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
On	(MHz)	Rate	KO comig.	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		RESULT
38	F100	MCS0	full	16	16.65	15.93	19.54	89.908		23.98		PASS
38	5190	MCS0	242/61	13.5	14.38	13.24	17.08	51.055		23.98		PASS
46	5230	MCS0	full	16.5	17.44	16.93	20.43	110.295		23.98		PASS
54	5270	MCS0	full	16.5	17.35	16.72	20.28	106.647	23.98	or 11+10log(B) =	27.04	PASS
62	F240	MCS0	full	15	15.62	15.49	18.79	75.658	23.98	or 11+10log(B) =	27.05	PASS
62	5310	MCS0	242/62	14	14.54	14.38	17.69	58.800	23.98	or 11+10log(B) =	27.05	PASS
103	5540	MCS0	full	15	15.73	15.19	18.70	74.156	23.98	or 11+10log(B) =	27.00	PASS
102	5510	MCS0	242/61	12	12.86	12.21	15.78	37.846	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	full	16	16.58	15.92	19.50	89.035	23.98	or 11+10log(B) =	27.05	PASS
124	5670	MCS0	full	16	17.04	16.89	20.20	104.682	23.98	or 11+10log(B) =	27.05	PASS
134	3070	MCS0	242/62	12	12.91	12.58	15.98	39.639	23.98	or 11+10log(B) =	27.05	PASS
142	5710(U-NII 2C)	MCS0	full	16	16.26	15.63	19.19	82.925	23.98	or 11+10log(B) =	26.45	PASS
142	5710 (U-NII 3)	MCS0	full	16	7.95	7.20	10.82	12.080		30		PASS
454	F7FF	MCS0	full	20.5	21.25	20.55	24.15	259.845		30		PASS
151	5755	MCS0	242/61	16	16.93	16.62	20.01	100.250		30		PASS
150	F70F	MCS0	full	21	22.12	21.03	24.84	304.942		30		PASS
159	5795	MCS0	242/62	15.5	17.02	15.68	19.63	91.929		30		PASS

802.11ac VHT80 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	16	17.14	51.756		23.98		PASS
58	5290	MCS0	17	18.05	63.820	23.98	or 11+10log(B) =	30.13	PASS
106	5530	MCS0	13	13.77	23.821	23.98	or 11+10log(B) =	30.11	PASS
122	5610	MCS0	15	16.03	40.083	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	17	17.79	60.05	23.98	or 11+10log(B) =	29.78	PASS
138	5690 (U-NII 3)	MCS0	17	6.39	4.36		30		PASS
155	5775	MCS0	17	18.23	66.521		30		PASS

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802.11ac VHT80 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	16	16.16	41.301		23.98		PASS
58	5290	MCS0	17	17.01	50.229	23.98	or 11+10log(B) =	30.07	PASS
106	5530	MCS0	13	13.32	21.476	23.98	or 11+10log(B) =	30.02	PASS
122	5610	MCS0	15	15.33	34.116	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	17	17.17	52.15	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	17	5.67	3.69		30		PASS
155	5775	MCS0	17	17.12	51.518		30		PASS

802.11ac_VHT80_MIMO

СН	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL	TOTAL POWER		REQUIRED LIMIT		RESULT
Сп	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	(mW)		(dBm)		KESULI
42	5210	MCS0	16	16.72	15.83	19.72	93.705		23.98		PASS
58	5290	MCS0	14.5	15.15	14.45	18.23	66.588	23.98	or 11+10log(B) =	30.07	PASS
106	5530	MCS0	13	13.43	12.97	16.63	45.983	23.98	or 11+10log(B) =	30.02	PASS
122	5610	MCS0	15	15.66	14.96	18.74	74.885	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	17	17.42	16.85	20.56	113.864	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	17	6.03	5.35	9.12	8.165		30		PASS
155	5775	MCS0	17	17.77	16.95	20.80	120.205		30		PASS

802.11ax HE80 Ch0

802.11ax_	_HE80_Ch0									
СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	F210	MCS0	full	15.5	16.74	47.236		23.98		PASS
42	5210	MCS0	484/65	12	12.38	17.309		23.98		PASS
58	5290	MCS0	full	16.5	17.67	58.516	23.98	or 11+10log(B) =	30.09	PASS
50	5290	MCS0	484/66	14	13.95	24.847	23.98	or 11+10log(B) =	30.09	PASS
100	FF20	MCS0	full	11.5	12.43	17.510	23.98	or 11+10log(B) =	30.08	PASS
106	5530	MCS0	484/65	10	10.65	11.622	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	full	15	15.98	39.653	23.98	or 11+10log(B) =	30.09	PASS
122	2010	MCS0	484/66	17	17.55	56.922	23.98	or 11+10log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.89	61.466	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.38	4.341		30		PASS
		MCS0	full	17	18.26	67.031		30		PASS
155	5775	MCS0	484/65	12	12.89	19.466		30	•	PASS
i		MCS0	484/66	12.5	13.27	21.246		30		PASS

802.11ax HE80 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	full	15.5	15.79	37.956		23.98		PASS
42	5210	MCS0	484/65	12	11.15	13.040		23.98		PASS
58	5290	MCS0	full	16.5	16.76	47.454	23.98	or 11+10log(B) =	30.12	PASS
36	3290	MCS0	484/66	14	13.37	21.741	23.98	or $11+10\log(B) =$	30.12	PASS
106	5530	MCS0	full	11.5	12.01	15.896	23.98	or 11+10log(B) =	30.10	PASS
106	5550	MCS0	484/65	10	10.15	10.358	23.98	or 11+10log(B) =	30.10	PASS
122	5610	MCS0	full	15	15.45	35.098	23.98	or 11+10log(B) =	30.08	PASS
122	2010	MCS0	484/66	17	17.10	51.319	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.26	53.233	23.98	or 11+10log(B) =	29.80	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.11	4.083		30		PASS
		MCS0	full	17	17.06	50.848		30		PASS
155	5775	MCS0	484/65	12	12.26	16.837		30		PASS
		MCS0	484/66	12.5	12.28	16.915		30		PASS

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802 11av HF80 MIMO

СН	Frequency	Data	RU config.	Power	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	Rate	No comig.	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESOLI
42	F210	MCS0	full	15.5	16.48	15.55	19.27	84.585		23.98		PASS
42	5210	MCS0	484/65	11.5	11.62	10.42	14.29	26.881		23.98		PASS
58	F200	MCS0	full	14	15.03	14.35	17.94	62.178	23.98	or 11+10log(B) =	30.09	PASS
58	5290	MCS0	484/66	12	11.65	11.32	14.72	29.656	23.98	or 11+10log(B) =	30.09	PASS
100	5520	MCS0	full	11.5	12.23	11.87	15.29	33.782	23.98	or 11+10log(B) =	30.08	PASS
106	5530	MCS0	484/65	10	10.44	9.79	13.36	21.678	23.98	or 11+10log(B) =	30.08	PASS
122	FC10	MCS0	full	15	15.95	15.32	18.88	77.259	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	484/66	17	17.37	16.88	20.36	108.767	23.98	or 11+11log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.58	17.00	20.53	113.017	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.07	5.85	9.19	8.302		30		PASS
		MCS0	full	17	18.08	16.84	20.74	118.500		30		PASS
155	5775	MCS0	484/65	11.5	12.17	11.61	15.13	32.599		30		PASS
		MCS0	484/66	12.5	13.13	12.09	15.87	38.673		30		PASS

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9.6 CDD Mode Measurement Result

9.6.1 Conducted output power (FCC)

СН	Frequency	Data	Power	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(MHz)	Rate	set	(dBm)	(mW)		(dBm)		
36	5180	6	20	20.86	121.998		23.98		PASS
44	5220	6	19.5	20.18	104.316		23.98		PASS
48	5240	6	20	20.71	117.856		23.98		PASS
52	5260	6	19.5	20.38	109.232	23.98	or 11+10log(B) =	23.77	PASS
60	5300	6	19	19.97	99.392	23.98	or 11+10log(B) =	23.81	PASS
64	5320	6	18.5	19.17	82.671	23.98	or 11+10log(B) =	23.76	PASS
100	5500	6	18	18.55	71.672	23.98	or 11+10log(B) =	23.77	PASS
116	5580	6	18.5	19.27	84.596	23.98	or 11+10log(B) =	23.78	PASS
140	5700	6	18	18.81	76.094	23.98	or 11+10log(B) =	23.83	PASS
144	5720(U-NII 2C)	6	18.5	18.16	65.39	23.98	or 11+10log(B) =	22.60	PASS
144	5720 (U-NII 3)	6	18.5	13.05	20.18		30		PASS
149	5745	6	26	25.87	386.680		30		PASS
157	5785	6	26	26.65	462.755		30		PASS
165	5825	6	26	26.18	415.290		30		PASS

802.11a Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	6	20	19.65	92.332		23.98		PASS
44	5220	6	19.5	19.34	85.971		23.98		PASS
48	5240	6	20	19.84	96.461		23.98		PASS
52	5260	6	19.5	19.43	87.771	23.98	or 11+10log(B) =	23.74	PASS
60	5300	6	19	19.02	79.864	23.98	or 11+10log(B) =	23.81	PASS
64	5320	6	18.5	18.98	79.132	23.98	or 11+10log(B) =	23.73	PASS
100	5500	6	18	18.45	70.041	23.98	or 11+10log(B) =	23.72	PASS
116	5580	6	18.5	18.90	77.688	23.98	or 11+10log(B) =	23.77	PASS
140	5700	6	18	18.69	74.020	23.98	or 11+10log(B) =	23.75	PASS
144	5720(U-NII 2C)	6	18.5	17.91	61.84	23.98	or 11+10log(B) =	22.61	PASS
144	5720 (U-NII 3)	6	18.5	12.82	19.13		30		PASS
149	5745	6	26	25.74	375.276		30		PASS
157	5785	6	26	25.65	367.579		30		PASS
165	5825	6	26	25.77	377.878		30		PASS

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802.11a_2TX											
СН	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
On On	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESULI
36	5180	6	19	19.66	18.45	22.41	174.213		23.98		PASS
44	5220	6	19	19.3	18.69	22.32	170.589		23.98		PASS
48	5240	6	20	20.36	19.55	23.29	213.190		23.98		PASS
52	5260	6	19.5	20.05	19.12	22.92	196.050	23.98	or 11+10log(B) =	23.74	PASS
60	5300	6	19	19.64	18.65	22.49	177.295	23.98	or 11+10log(B) =	23.81	PASS
64	5320	6	18.5	18.86	18.74	22.11	162.713	23.98	or 11+10log(B) =	23.73	PASS
100	5500	6	18	18.34	18.08	21.53	142.094	23.98	or 11+10log(B) =	23.72	PASS
116	5580	6	18.5	19.08	18.99	22.35	171.753	23.98	or 11+10log(B) =	23.77	PASS
140	5700	6	18	18.51	18.38	21.76	149.944	23.98	or 11+10log(B) =	23.75	PASS
144	5720(U-NII 2C)	6	18.5	17.78	17.57	20.99	125.519	23.98	or 11+10log(B) =	22.60	PASS
144	5720 (U-NII 3)	6	18.5	12.68	12.47	15.89	38.789		30		PASS
149	5745	6	26	25.58	25.36	28.79	755.998		30	•	PASS
157	5785	6	26	26.18	25.33	29.09	810.881		30		PASS
165	5825	6	26	25.95	25.52	29.05	804.291		30	<u> </u>	PASS

802.11n_HT20_Ch0

	<u> </u>		I _	TOTAL	TOTAL	l	REQUIRED		1
СН	Frequency	Data	Power	POWER	POWER		LIMIT		RESULT
011	(MHz)	Rate	set	(dBm)	(mW)		(dBm)		KEGGET
36	5180	MCS0	20	20.74	118.467		23.98		PASS
44	5220	MCS0	19.5	20.01	100.137		23.98		PASS
48	5240	MCS0	20	20.55	113.396		23.98		PASS
52	5260	MCS0	20	20.68	116.841	23.98	or 11+10log(B) =	24.03	PASS
60	5300	MCS0	20	20.67	116.573	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS0	19	19.38	86.616	23.98	or 11+10log(B) =	24.06	PASS
100	5500	MCS0	18.5	18.94	78.270	23.98	or 11+10log(B) =	23.98	PASS
116	5580	MCS0	19	19.68	92.810	23.98	or 11+10log(B) =	24.05	PASS
140	5700	MCS0	18.5	19.15	82.148	23.98	or 11+10log(B) =	24.07	PASS
144	5720(U-NII 2C)	MCS0	19	18.29	67.43	23.98	or 11+10log(B) =	22.82	PASS
144	5720 (U-NII 3)	MCS0	19	13.63	23.05		30		PASS
149	5745	MCS0	26	25.82	381.590		30		PASS
157	5785	MCS0	26	26.68	465.154		30		PASS
165	5825	MCS0	26	26.11	407.940		30		PASS

802.11n_HT20_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	20	19.50	89.042		23.98		PASS
44	5220	MCS0	19.5	19.20	83.099		23.98		PASS
48	5240	MCS0	20	19.73	93.885		23.98		PASS
52	5260	MCS0	20	19.68	92.810	23.98	or 11+10log(B) =	23.97	PASS
60	5300	MCS0	20	19.54	89.866	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS0	19	19.36	86.218	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS0	18.5	18.78	75.439	23.98	or 11+10log(B) =	24.00	PASS
116	5580	MCS0	19	19.59	90.907	23.98	or 11+10log(B) =	24.06	PASS
140	5700	MCS0	18.5	19.13	81.770	23.98	or 11+10log(B) =	23.99	PASS
144	5720(U-NII 2C)	MCS0	19	18.25	66.81	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.43	22.03		30		PASS
149	5745	MCS0	26	25.78	378.091		30		PASS
157	5785	MCS0	26	25.60	362.741		30		PASS
165	5825	MCS0	26	25.72	372.904		30		PASS

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30

30

PASS

PASS

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802.11n_HT20_	MIMO										
СН	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL	TOTAL		REQUIRED		RESULT
Сп	(MHz)	Rate	set	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		KESULI
36	5180	MCS8	20	20.45	19.27	23.14	205.884		23.98		PASS
44	5220	MCS8	19.5	19.84	19.1	22.72	187.155		23.98		PASS
48	5240	MCS8	20	20.31	19.47	23.15	206.374		23.98		PASS
52	5260	MCS8	20	20.31	19.38	23.11	204.461	23.98	or 11+10log(B) =	23.97	PASS
60	5300	MCS8	20	20.23	19.43	23.08	203.454	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS8	19	19.17	19.06	22.35	171.855	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS8	18.5	18.73	18.57	21.89	154.419	23.98	or 11+10log(B) =	23.98	PASS
116	5580	MCS8	19	19.52	19.41	22.70	186.278	23.98	or 11+10log(B) =	24.05	PASS
140	5700	MCS8	18.5	18.92	18.83	22.11	162.611	23.98	or 11+10log(B) =	23.99	PASS
144	5720(U-NII 2C)	MCS8	19	18.01	18.02	21.26	133.594	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS8	19	13.35	13.20	16.52	44.863		30		PASS
149	5745	MCS8	26	25.72	25.42	28.81	760.126		30		PASS

25.17

25.42

28.43

28.95

696.841

784.384

802.11ac_VHT20_Ch0

5785

5825

157

165

MCS8

MCS8

26

26

25.22

25.98

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	20	20.67	116.686		23.98		PASS
44	5220	MCS0	19.5	19.96	99.087		23.98		PASS
48	5240	MCS0	20	20.50	112.206		23.98		PASS
52	5260	MCS0	20	20.61	115.085	23.98	or 11+10log(B) =	24.03	PASS
60	5300	MCS0	20	20.59	114.556	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS0	19	19.30	85.117	23.98	or 11+10log(B) =	24.06	PASS
100	5500	MCS0	18.5	18.86	76.916	23.98	or 11+10log(B) =	23.98	PASS
116	5580	MCS0	19	19.58	90.786	23.98	or 11+10log(B) =	24.05	PASS
140	5700	MCS0	18.5	19.09	81.099	23.98	or 11+10log(B) =	24.07	PASS
144	5720(U-NII 2C)	MCS0	19	18.24	66.73	23.98	or 11+10log(B) =	22.82	PASS
144	5720 (U-NII 3)	MCS0	19	13.58	22.81		30		PASS
149	5745	MCS0	26	25.80	380.204		30		PASS
157	5785	MCS0	26	26.65	462.399		30	-	PASS
165	5825	MCS0	26	26.08	405.524		30		PASS

802.11ac_VHT20_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	20	19.47	88.515		23.98		PASS
44	5220	MCS0	19.5	19.17	82.607		23.98		PASS
48	5240	MCS0	20	19.68	92.900		23.98		PASS
52	5260	MCS0	20	19.60	91.205	23.98	or 11+10log(B) =	23.97	PASS
60	5300	MCS0	20	19.47	88.515	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS0	19	19.26	84.337	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS0	18.5	18.71	74.305	23.98	or 11+10log(B) =	24.00	PASS
116	5580	MCS0	19	19.53	89.746	23.98	or 11+10log(B) =	24.06	PASS
140	5700	MCS0	18.5	19.06	80.541	23.98	or 11+10log(B) =	23.99	PASS
144	5720(U-NII 2C)	MCS0	19	18.19	65.95	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.37	21.75		30		PASS
149	5745	MCS0	26	25.72	373.265		30	-	PASS
157	5785	MCS0	26	25.55	358.936		30	•	PASS
165	5825	MCS0	26	25.61	363.929		30	•	PASS

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802.11ac_VHT	20_MIMO										
СН	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESOLI
36	5180	MCS0	20	20.2	19.22	22.99	198.978		23.98		PASS
44	5220	MCS0	19.5	19.77	19.02	22.66	184.571		23.98		PASS
48	5240	MCS0	20	20.29	19.34	23.09	203.770		23.98		PASS
52	5260	MCS0	20	20.26	19.28	23.05	201.746	23.98	or 11+10log(B) =	23.97	PASS
60	5300	MCS0	20	20.16	19.32	23.01	200.021	23.98	or 11+10log(B) =	24.00	PASS
64	5320	MCS0	19	19.13	18.95	22.29	169.489	23.98	or 11+10log(B) =	24.01	PASS
100	5500	MCS0	18.5	18.66	18.51	21.84	152.620	23.98	or 11+10log(B) =	23.98	PASS
116	5580	MCS0	19	19.47	19.35	22.66	184.539	23.98	or 11+10log(B) =	24.05	PASS
140	5700	MCS0	18.5	18.86	18.75	22.06	160.539	23.98	or 11+10log(B) =	23.99	PASS
144	5720(U-NII 2C)	MCS0	19	17.95	17.94	21.20	131.761	23.98	or 11+10log(B) =	22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.29	13.12	16.46	44.249		30		PASS
149	5745	MCS0	26	25.66	25.36	28.76	752.153		30		PASS
157	5785	MCS0	26	25.13	25.11	28.37	687.145		30	•	PASS
165	5825	MCS0	26	25.92	25.34	28.89	774.488		30	•	PASS

802.11ax HE20 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
		MCS0	full	20	21.01	126.089		23.98		PASS
36	5180	MCS0	26/0	15	16.03	40.057		23.98		PASS
30	2190	MCS0	52/37	15	16.17	41.369		23.98		PASS
		MCS0	106/53	20	20.56	113.679		23.98		PASS
44	5220	MCS0	full	19.5	20.27	106.336		23.98		PASS
48	5240	MCS0	full	19.5	20.25	105.847		23.98		PASS
52	5260	MCS0	full	20	20.95	124.359	23.98	or 11+10log(B) =	24.15	PASS
60	5300	MCS0	full	19	19.92	98.102	23.98	or 11+10log(B) =	24.13	PASS
		MCS0	full	19	19.66	92.401	23.98	or 11+10log(B) =	24.12	PASS
C 4	F220	MCS0	26/8	17	17.56	56.974	23.98	or 11+10log(B) =	24.12	PASS
64	5320	MCS0	52/40	16.5	17.27	53.294	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	106/54	20	20.22	105.118	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	full	19	19.50	89.059	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	26/0	15.5	16.05	40.242	23.98	or 11+10log(B) =	24.15	PASS
100	3300	MCS0	52/37	16	16.68	46.524	23.98	or 11+10log(B) =	24.15	PASS
		MCS0	106/53	15.5	15.92	39.055	23.98	or 11+10log(B) =	24.15	PASS
116	5580	MCS0	full	19	19.87	96.979	23.98	or 11+10log(B) =	24.23	PASS
		MCS0	full	18	18.92	77.925	23.98	or 11+10log(B) =	24.19	PASS
140	F700	MCS0	26/8	13.5	14.37	27.332	23.98	or 11+10log(B) =	24.19	PASS
140	5700	MCS0	52/40	13.5	14.48	28.034	23.98	or 11+10log(B) =	24.19	PASS
		MCS0	106/54	14	14.76	29.900	23.98	or 11+10log(B) =	24.19	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.45	70.017	23.98	or 11+10log(B) =	22.87	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.90	24.537		30		PASS
		MCS0	full	27.5	27.49	560.633		30		PASS
149	5745	MCS0	26/0	20	20.66	116.326		30		PASS
149	3743	MCS0	52/37	23	23.43	220.130		30		PASS
		MCS0	106/53	22.5	22.82	191.284		30		PASS
157	5785	MCS0	full	26	26.65	462.039		30		PASS
		MCS0	full	27.5	27.22	526.840		30		PASS
165	5825	MCS0	26/8	20	20.69	117.133		30		PASS
103	3023	MCS0	52/40	23.5	23.76	237.508		30		PASS
		MCS0	106/54	22.5	22.77	189.094		30		PASS

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802.11ax HE20 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	MCS0	full	20	19.75	94.336		23.98		PASS
		MCS0	26/0	15	14.90	30.880		23.98		PASS
		MCS0	52/37	15	14.98	31.454		23.98		PASS
		MCS0	106/53	20	19.36	86.234		23.98		PASS
44	5220	MCS0	full	19.5	19.44	87.837		23.98		PASS
48	5240	MCS0	full	19.5	19.59	90.924		23.98		PASS
52	5260	MCS0	full	20	19.97	99.238	23.98	or 11+10log(B) =	24.16	PASS
60	5300	MCS0	full	19	19.05	80.293	23.98	or 11+10log(B) =	24.17	PASS
64	5320	MCS0	full	19	19.55	90.090	23.98	or 11+10log(B) =	24.25	PASS
		MCS0	26/8	17	17.55	56.843	23.98	or 11+10log(B) =	24.25	PASS
		MCS0	52/40	16.5	17.11	51.366	23.98	or 11+10log(B) =	24.25	PASS
		MCS0	106/54	20	20.18	104.155	23.98	or 11+10log(B) =	24.25	PASS
100	5500	MCS0	full	19	19.43	87.635	23.98	or 11+10log(B) =	24.19	PASS
		MCS0	26/0	15.5	15.80	37.991	23.98	or 11+10log(B) =	24.19	PASS
		MCS0	52/37	16	16.36	43.219	23.98	or 11+10log(B) =	24.19	PASS
		MCS0	106/53	15.5	15.56	35.948	23.98	or 11+10log(B) =	24.19	PASS
116	5580	MCS0	full	19	19.76	94.554	23.98	or 11+10log(B) =	24.14	PASS
140	5700	MCS0	full	18	18.89	77.389	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	26/8	13.5	14.15	25.982	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	52/40	13.5	14.34	27.144	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	106/54	14	14.55	28.489	23.98	or 11+10log(B) =	24.18	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.39	68.951	23.98	or 11+10log(B) =	22.87	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.82	24.090		30		PASS
149	5745	MCS0	full	27.5	26.82	480.483		30		PASS
		MCS0	26/0	20	20.60	114.730		30		PASS
		MCS0	52/37	23	23.15	206.385	30			PASS
		MCS0	106/53	22.5	22.71	186.500	30			PASS
157	5785	MCS0	full	26	25.77	377.293		30		PASS
165	5825	MCS0	full	27.5	26.47	443.280	30			PASS
		MCS0	26/8	20	20.51	112.377	30			PASS
		MCS0	52/40	23.5	23.59	228.391		30		PASS
		MCS0	106/54	22.5	22.76	188.659	30			PASS

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802.11ax_HE20	OMIMO				-							
СН	Frequency	Data	RU config.	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	Rate	ixo comig.	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESOLI
		MCS0	full	20	20.73	19.81	23.50	223.944		23.98		PASS
26	5400	MCS0	26/0	15	15.88	14.57	18.48	70.490		23.98		PASS
36	5180	MCS0	52/37	14.5	15.84	14.22	18.31	67.798		23.98		PASS
		MCS0	106/53	17.5	18.26	16.93	20.85	121.697		23.98		PASS
44	5220	MCS0	full	19.5	20.05	19.36	22.93	196.145		23.98		PASS
48	5240	MCS0	full	19.5	20.08	19.28	22.91	195.231		23.98		PASS
52	5260	MCS0	full	20	20.67	19.78	23.45	221.556	23.98	or 11+10log(B) =	24.15	PASS
60	5300	MCS0	full	19	19.73	18.84	22.51	178.437	23.98	or 11+10log(B) =	24.13	PASS
		MCS0	full	19	19.68	19.36	22.73	187.501	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	26/8	15.5	16.14	15.83	19.19	83.078	23.98	or 11+10log(B) =	24.12	PASS
64	5320	MCS0	52/40	16	16.7	16.37	19.75	94.302	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	106/54	17.5	17.97	17.57	20.98	125.363	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	full	19	19.36	19.35	22.56	180.388	23.98	or 11+10log(B) =	24.15	PASS
		MCS0	26/0	15	15.46	14.95	18.42	69.495	23.98	or 11+10log(B) =	24.15	PASS
100	5500	MCS0	52/37	16	16.83	15.72	19.52	89.484	23.98	or 11+10log(B) =	24.15	PASS
		MCS0	106/53	15	15.38	14.36	18.11	64.669	23.98	or 11+10log(B) =	24.15	PASS
116	5580	MCS0	full	19	19.76	19.6	22.89	194.438	23.98	or 11+10log(B) =	24.14	PASS
		MCS0	full	18	18.68	18.65	21.87	153.890	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	26/8	13.5	14.14	14.1	17.33	54.040	23.98	or 11+10log(B) =	24.18	PASS
140	5700	MCS0	52/40	13.5	14.37	14.15	17.47	55.827	23.98	or 11+10log(B) =	24.18	PASS
		MCS0	106/54	14	14.45	14.37	17.62	57.773	23.98	or 11+10log(B) =	24.18	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.28	18.18	21.44	139.236	23.98	or 11+10log(B) =	22.87	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.72	13.61	16.88	48.721		30		PASS
		MCS0	full	27.5	27.19	26.23	29.94	987.087		30		PASS
4.40	5745	MCS0	26/0	20	20.54	20.45	23.70	234.548		30		PASS
149	5745	MCS0	52/37	23	23.22	23.05	26.34	430.816		30		PASS
		MCS0	106/53	22.5	22.53	22.28	25.61	364.241		30		PASS
157	5785	MCS0	full	26	26.23	25.48	29.08	808.771		30		PASS
		MCS0	full	27.5	26.75	26.1	29.64	921.347		30		PASS
4.55	5005	MCS0	26/8	20	20.7	20.2	23.66	232.502		30		PASS
165	5825	MCS0	52/40	23.5	23.45	23.43	26.65	462.072		30		PASS
		MCS0	106/54	22.5	22.35	22.28	25.52	356.634		30		PASS

802 11n HT40 Ch0

002.11	H140_CN0		1		1	1			
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	19.5	20.29	106.929		23.98		PASS
46	5230	MCS0	19.5	20.43	110.433		23.98		PASS
54	5270	MCS0	20	20.85	121.646	23.98	or 11+10log(B) =	26.99	PASS
62	5310	MCS0	19.5	20.16	103.776	23.98	or 11+10log(B) =	26.99	PASS
102	5510	MCS0	19.5	20.10	102.352	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	19	19.59	91.012	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	19.5	20.38	109.168	23.98	or 11+10log(B) =	27.06	PASS
142	5710(U-NII 2C)	MCS0	19	19.20	83.20	23.98	or 11+10log(B) =	26.41	PASS
142	5710 (U-NII 3)	MCS0	19	10.59	11.44		30		PASS
151	5755	MCS0	23.5	24.29	268.594		30		PASS
159	5795	MCS0	24	25.47	352.450		30	-	PASS

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802.11n HT40 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	19.5	19.35	86.119		23.98		PASS
46	5230	MCS0	19.5	19.87	97.073		23.98		PASS
54	5270	MCS0	20	19.99	99.792	23.98	or 11+10log(B) =	26.95	PASS
62	5310	MCS0	19.5	20.07	101.648	23.98	or 11+10log(B) =	26.96	PASS
102	5510	MCS0	19.5	20.05	101.181	23.98	or 11+10log(B) =	26.94	PASS
110	5550	MCS0	19	19.38	86.716	23.98	or 11+10log(B) =	26.95	PASS
134	5670	MCS0	19.5	19.96	99.105	23.98	or 11+10log(B) =	26.96	PASS
142	5710(U-NII 2C)	MCS0	19	19.19	82.97	23.98	or 11+10log(B) =	26.39	PASS
142	5710 (U-NII 3)	MCS0	19	10.42	11.02		30		PASS
151	5755	MCS0	23.5	24.00	251.245		30		PASS
159	5795	MCS0	24	24.33	271.080		30	-	PASS

802.11n_HT40_	MIMO										
СН	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
On	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		RESOLI
38	5190	MCS8	19.5	20.02	19.16	22.93	196.450		23.98		PASS
46	5230	MCS8	19.5	20.33	19.56	23.28	212.976		23.98		PASS
54	5270	MCS8	20	20.52	19.86	23.52	225.102	23.98	or 11+10log(B) =	26.95	PASS
62	5310	MCS8	19.5	19.87	19.44	22.98	198.682	23.98	or 11+10log(B) =	26.96	PASS
102	5510	MCS8	19.5	19.82	19.75	23.11	204.475	23.98	or 11+10log(B) =	26.94	PASS
110	5550	MCS8	19	19.31	19.15	22.55	179.970	23.98	or 11+10log(B) =	26.95	PASS
134	5670	MCS8	19.5	20.24	20.05	23.47	222.193	23.98	or 11+10log(B) =	26.96	PASS
142	5710(U-NII 2C)	MCS8	19	19.00	18.94	22.29	169.423	23.98	or 11+10log(B) =	26.39	PASS
142	5710 (U-NII 3)	MCS8	19	10.39	10.17	13.60	22.907		30	·	PASS
151	5755	MCS8	23.5	24.01	23.84	27.25	530.530		30		PASS
159	5795	MCS8	24	25.26	24.21	28.09	643.862		30		PASS

802.11ac VHT40 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	19.5	20.24	105.638		23.98		PASS
46	5230	MCS0	19.5	20.33	107.850		23.98		PASS
54	5270	MCS0	20	20.76	119.075	23.98	or 11+10log(B) =	26.99	PASS
62	5310	MCS0	19.5	20.07	101.583	23.98	or 11+10log(B) =	26.99	PASS
102	5510	MCS0	19.5	20.00	99.959	23.98	or 11+10log(B) =	27.00	PASS
110	5550	MCS0	19	19.51	89.294	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	19.5	20.27	106.370	23.98	or 11+10log(B) =	27.06	PASS
142	5710(U-NII 2C)	MCS0	19	19.15	82.20	23.98	or 11+10log(B) =	26.41	PASS
142	5710 (U-NII 3)	MCS0	19	10.53	11.31		30		PASS
151	5755	MCS0	23.5	24.22	264.131		30		PASS
159	5795	MCS0	24	25.44	349.800		30		PASS

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802.11ac_VHT40_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	19.5	19.23	83.718		23.98		PASS
46	5230	MCS0	19.5	19.80	95.460		23.98		PASS
54	5270	MCS0	20	19.94	98.587	23.98	or 11+10log(B) =	26.95	PASS
62	5310	MCS0	19.5	20.01	100.189	23.98	or 11+10log(B) =	26.96	PASS
102	5510	MCS0	19.5	19.96	99.042	23.98	or 11+10log(B) =	26.94	PASS
110	5550	MCS0	19	19.30	85.079	23.98	or 11+10log(B) =	26.95	PASS
134	5670	MCS0	19.5	19.87	97.011	23.98	or 11+10log(B) =	26.96	PASS
142	5710(U-NII 2C)	MCS0	19	19.06	80.47	23.98	or 11+10log(B) =	26.39	PASS
142	5710 (U-NII 3)	MCS0	19	10.29	10.69		30		PASS
151	5755	MCS0	23.5	23.91	245.935		30		PASS
159	5795	MCS0	24	24.26	266.575		30		PASS

02.11ac_VHT	40_MIMO										
СН	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
СП	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		RESULT
38	5190	MCS0	19.5	19.86	19.03	22.85	192.899		23.98		PASS
46	5230	MCS0	19.5	20.21	19.42	23.22	209.964		23.98		PASS
54	5270	MCS0	20	20.48	19.71	23.50	223.900	23.98	or 11+10log(B) =	26.95	PASS
62	5310	MCS0	19.5	19.76	19.29	22.92	195.878	23.98	or 11+10log(B) =	26.96	PASS
102	5510	MCS0	19.5	19.68	19.59	23.02	200.620	23.98	or 11+10log(B) =	26.94	PASS
110	5550	MCS0	19	19.16	19.01	22.47	176.773	23.98	or 11+10log(B) =	26.95	PASS
134	5670	MCS0	19.5	20.08	19.02	22.97	198.187	23.98	or 11+10log(B) =	26.96	PASS
142	5710(U-NII 2C)	MCS0	19	18.82	18.82	22.21	166.327	23.98	or 11+10log(B) =	26.39	PASS
142	5710 (U-NII 3)	MCS0	19	10.21	10.05	13.52	22.486		30		PASS
151	5755	MCS0	23.5	23.89	23.71	27.19	523.532		30		PASS
159	5795	MCS0	24	25.13	24.08	28.03	634.623		30		PASS

802.11ax HE40 Ch0

002:::00	11240_0110									
СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	full	19.5	20.36	108.679		23.98		PASS
30	5190	MCS0	242/61	16.5	17.46	55.737		23.98		PASS
46	5230	MCS0	full	19.5	20.65	116.184		23.98		PASS
54	5270	MCS0	full	19.5	20.48	111.724	23.98	or 11+10log(B) =	27.06	PASS
62	F210	MCS0	full	19.5	20.17	104.027	23.98	or 11+10log(B) =	27.05	PASS
62	5310	MCS0	242/62	19	19.61	91.442	23.98	or 11+10log(B) =	27.05	PASS
402	5540	MCS0	full	18	18.74	74.842	23.98	or 11+10log(B) =	27.07	PASS
102	5510	MCS0	242/61	15	15.97	39.550	23.98	or 11+10log(B) =	27.07	PASS
110	5550	MCS0	full	19	19.57	90.604	23.98	or 11+10log(B) =	27.06	PASS
424	5.670	MCS0	full	19	20.07	101.659	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	242/62	15	15.99	39.732	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.22	83.515	23.98	or 11+10log(B) =	26.46	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.88	12.236		30		PASS
151	F7FF	MCS0	full	23.5	24.33	271.110		30		PASS
151	5755	MCS0	242/61	19	20.04	100.959		30		PASS
150	E70E	MCS0	full	24	25.39	346.056		30		PASS
159	5795	MCS0	242/62	18.5	19.75	94.438		30		PASS

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802.11ax HE40 Ch1

	11240_0111									
СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	F100	MCS0	full	19.5	19.49	88.950		23.98		PASS
30	5190	MCS0	242/61	16.5	16.30	42.672		23.98		PASS
46	5230	MCS0	full	19.5	19.85	96.638		23.98		PASS
54	5270	MCS0	full	19.5	19.54	89.980	23.98	or 11+10log(B) =	27.07	PASS
62	F210	MCS0	full	19.5	19.97	99.345	23.98	or 11+10log(B) =	26.99	PASS
62	5310	MCS0	242/62	19	19.39	86.925	23.98	or 11+10log(B) =	26.99	PASS
102	FF10	MCS0	full	18	18.71	74.327	23.98	or 11+10log(B) =	27.06	PASS
102	5510	MCS0	242/61	15	15.41	34.765	23.98	or 11+10log(B) =	27.06	PASS
110	5550	MCS0	full	19	19.41	87.326	23.98	or 11+10log(B) =	27.04	PASS
124	F.C.7.0	MCS0	full	19	20.01	100.264	23.98	or 11+10log(B) =	27.09	PASS
134	5670	MCS0	242/62	15	15.97	39.550	23.98	or 11+10log(B) =	27.09	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.16	82.394	23.98	or 11+10log(B) =	26.47	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.89	12.261		30		PASS
151	F7FF	MCS0	full	23.5	24.14	259.505		30		PASS
151	5755	MCS0	242/61	19	19.81	95.752		30	•	PASS
150	F70F	MCS0	full	24	24.44	278.065		30		PASS
159	5795	MCS0	242/62	18.5	19.05	80.380		30		PASS

802.11ax_HE40_	_MIMO				-							
СН	Frequency	Data	RU config.	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
СП	(MHz)	Rate	Ko coming.	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		RESULI
38	5190	MCS0	full	19	19.68	18.83	22.52	178.547		23.98		PASS
38	5190	MCS0	242/61	16.5	17.16	16.05	19.88	97.322		23.98		PASS
46	5230	MCS0	full	19.5	20.54	19.75	23.40	219.013		23.98		PASS
54	5270	MCS0	full	19.5	20.23	19.54	23.14	206.084	23.98	or 11+10log(B) =	27.06	PASS
62	F210	MCS0	full	18	18.56	18.35	21.70	147.844	23.98	or 11+10log(B) =	26.99	PASS
62	5310	MCS0	242/62	17	17.39	17.18	20.53	112.928	23.98	or 11+10log(B) =	26.99	PASS
102	5510	MCS0	full	18	18.62	18.42	21.76	150.069	23.98	or 11+10log(B) =	27.06	PASS
102	5510	MCS0	242/61	15	15.69	15.34	18.76	75.167	23.98	or 11+10log(B) =	27.06	PASS
110	5550	MCS0	full	19	19.35	19.24	22.54	179.354	23.98	or 11+10log(B) =	27.04	PASS
124	F670	MCS0	full	19	19.95	19.82	23.13	205.459	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	242/62	15	16.18	15.88	19.27	84.613	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.17	18.98	22.31	170.340	23.98	or 11+10log(B) =	26.46	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.83	10.70	14.01	25.149		30		PASS
454	5755	MCS0	full	23.5	24.15	24.06	27.35	542.874		30		PASS
151	5755	MCS0	242/61	19	19.73	19.56	22.89	194.428		30		PASS
150	5795	MCS0	full	24	25.29	24.3	28.06	640.458		30		PASS
159	3/95	MCS0	242/62	18.5	19.75	18.68	22.49	177.404		30		PASS

802.11ac_VHT80_Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	19	20.28	106.734		23.98		PASS
58	5290	MCS0	20	21.06	127.733	23.98	or 11+10log(B) =	30.11	PASS
106	5530	MCS0	16	16.75	47.348	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	18	18.62	72.829	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	20	20.35	108.50	23.98	or 11+10log(B) =	29.78	PASS
138	5690 (U-NII 3)	MCS0	20	9.03	7.99		30		PASS
155	5775	MCS0	20	20.93	123.967		30		PASS

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802.11ac_VHT80_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	19	19.05	80.409		23.98		PASS
58	5290	MCS0	20	20.25	106.000	23.98	or 11+10log(B) =	30.08	PASS
106	5530	MCS0	16	16.69	46.699	23.98	or 11+10log(B) =	30.04	PASS
122	5610	MCS0	18	18.57	71.995	23.98	or 11+10log(B) =	30.06	PASS
138	5690(U-NII 2C)	MCS0	20	20.34	108.08	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	20	8.82	7.61		30		PASS
155	5775	MCS0	20	20.35	108.469		30		PASS

802.11ac_VHT80	_MIMO										
СН	Frequency	Data	Power	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
Cii	(MHz)	Rate	set	CH 0	CH 1	(dBm)	(mW)		(dBm)		KESOLI
42	5210	MCS0	19	19.9	18.82	22.71	186.502		23.98		PASS
58	5290	MCS0	17.5	18.08	17.37	21.05	127.434	23.98	or 11+10log(B) =	30.08	PASS
106	5530	MCS0	16	16.69	16.33	19.83	96.096	23.98	or 11+10log(B) =	30.04	PASS
122	5610	MCS0	18	18.43	18.31	21.68	147.359	23.98	or 11+10log(B) =	30.06	PASS
138	5690(U-NII 2C)	MCS0	20	20.04	19.98	23.32	214.945	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	MCS0	20	8.71	8.46	11.90	15.488		30		PASS
155	5775	MCS0	20	20.54	19.91	23.55	226.452		30		PASS

802.11ax HE80 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(2)	Ruto		001	(dBm)	(mW)		(dBm)		
42	5210	MCS0	full	18.5	19.66	92.548		23.98		PASS
42	5210	MCS0	484/65	15	15.33	34.148		23.98		PASS
58	5290	MCS0	full	19.5	20.49	112.039	23.98	or 11+10log(B) =	30.09	PASS
56	5290	MCS0	484/66	17	17.12	51.567	23.98	or 11+10log(B) =	30.09	PASS
100	FF20	MCS0	full	14.5	15.50	35.511	23.98	or 11+10log(B) =	30.13	PASS
106	5530	MCS0	484/65	13	13.65	23.194	23.98	or 11+10log(B) =	30.13	PASS
122	5610	MCS0	full	18	18.91	77.870	23.98	or 11+10log(B) =	30.09	PASS
122	2010	MCS0	484/66	20	20.19	104.561	23.98	or 11+10log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.55	113.427	23.98	or 11+10log(B) =	29.79	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.33	8.575		30		PASS
		MCS0	full	20	21.05	127.458		30		PASS
155	5775	MCS0	484/65	15	15.80	38.051		30	•	PASS
		MCS0	484/66	15.5	16.14	41.150		PASS		

802.11ax_HE80_Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	F210	MCS0	full	18.5	18.69	74.023		23.98		PASS
42	42 5210		484/65	15	13.87	24.399		23.98		PASS
58	5290	MCS0	full	19.5	19.48	88.791	23.98	or 11+10log(B) =	30.06	PASS
56	5290	MCS0	484/66	17	15.79	37.964	23.98	or 11+10log(B) =	30.06	PASS
100	FF20	MCS0	full	14.5	15.41	34.783	23.98	or 11+10log(B) =	30.08	PASS
106	5530	MCS0	484/65	13	13.04	20.154	23.98	or 11+10log(B) =	30.08	PASS
122	FC10	MCS0	full	18	18.84	76.625	23.98	or 11+10log(B) =	30.09	PASS
122	5610	MCS0	484/66	20	20.05	101.244	23.98	or 11+10log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.53	113.012	23.98	or 11+10log(B) =	29.80	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.40	8.709		30		PASS
		MCS0	full	20	21.03	126.873		30		PASS
155	5775	MCS0	484/65	15	15.25	33.525		30		PASS
			484/66	15.5	15.37	34.464		30		PASS

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802.11ax_HE80_	MIMO											
СН	Frequency	Data	RU config.	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
Cil	(MHz)	Rate	No comig.	set	CH 0	CH 1	(dBm)	(mW)	(dBm)			RESULT
42	5210	MCS0	full	18.5	19.32	18.35	22.10	162.032		23.98		PASS
42	3210	MCS0	484/65	14.5	14.64	13.3	17.26	53.155		23.98		PASS
58	5290	MCS0	full	17	17.84	16.95	20.65	116.191	23.98	or 11+10log(B) =	30.06	PASS
36	3290	MCS0	484/66	15	14.79	14.21	17.74	59.479	23.98	or 11+10log(B) =	30.06	
106	5530	MCS0	full	14.5	15.29	15.15	18.45	70.057	23.98	or 11+10log(B) =	30.08	
100	3330	MCS0	484/65	13	13.34	12.81	16.32	42.826	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	full	18	18.68	18.56	21.85	153.264	23.98	or 11+10log(B) =	30.09	PASS
122	3010	MCS0	484/66	20	19.98	19.72	23.09	203.513	23.98	or 11+11log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.31	20.19	23.48	222.910	23.98	or 11+10log(B) =	29.79	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.10	9.06	12.31	17.013		30		PASS
		MCS0	full	20	20.85	20.28	23.81	240.343		30		PASS
155	5775	MCS0	484/65	14.5	15.17	14.43	18.05	63.822		30		PASS
		MCS0	484/66	15.5	15.97	15.15	18.81	76.090		30	•	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band		EUT CATEGORY	LIMIT		
		Access Point (Master device)	17dBm/ MHz		
U-NII-1		Fixed point-to-point Access Ponit	TADITI/ IVII IZ		
	\boxtimes	Mobile and portable client device	11dBm/ MHz		
U-NII-2A	\boxtimes		11dBm/ MHz		
U-NII-2C	\boxtimes		11dBm/ MHz		
U-NII-3	\boxtimes		30dBm/ 500kHz		

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

CDD

As per section F. 2). d). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain =
$$10 \log[(10^{GI/10} + 10^{G2/10} + ... + 10^{GN/10})/NANT] dBi$$

where

NANT = the total number of antennas

G is the gain in dBi.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

Beamforming

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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• Directional Gain =
$$10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

 $g_{i,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 4. For U-NII1, U-NII-2A, U-NII-2C Band:

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

Set RBW= approximately 1% of EBW, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

- 5. User the cursor on spectrum to peak search the highest level of trace
- 6. Record the max. reading and add 10 log(1/duty cycle).
- 7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- 8. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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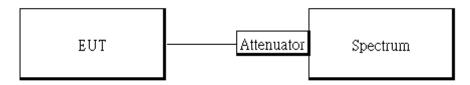


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10.3 **Measurement Equipment Used**

Conducted Emission Test Site: Conducted 2										
EQUIPMENT TYPE MFR MODEL SERIAL NUMBER BER LAST CAL. CAL DUE.										
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021					
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021					
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021					

10.4 Test Set-up



Beamforming Mode Measurement Result

10.5.1 Power spectral density

		POWER	R DENSITY 802.1	1n HT20 MODE			
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180.00	2.38	0.14	0.32	4.	73	11.00 dBm/MHz	-6.27
5220.00	0.26	1.37	0.32	4.	18	11.00 dBm/MHz	-6.82
5240.00	3.15	4.22	0.32	7.0	05	11.00 dBm/MHz	-3.95
5260.00	2.78	2.57	0.32	6.0	01	11.00 dBm/MHz	-4.99
5300.00	2.40	0.98	0.32	5.0	08	11.00 dBm/MHz	-5.92
5320.00	-0.54	-0.87	0.32	2.0	63	11.00 dBm/MHz	-8.37
5500.00	3.78	0.60	0.32	5.81		11.00 dBm/MHz	-5.19
5580.00	3.63	2.02	0.32	6.3	23	11.00 dBm/MHz	-4.77
5700.00	2.98	1.28	0.32	5.9	54	11.00 dBm/MHz	-5.46
5720 (U-NII 2C)	1.22	1.60	0.32	4.	74	11.00 dBm/MHz	-6.26
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500k Hz)	Limit	Margin (dB)
5720 (U-NII 3)	-3.14	-3.72	0.32	2.22	2.13	30.00 dBm/500kHz	-27.87
5745.00	4.92	3.06	0.32	2.22	9.64	30.00 dBm/500kHz	-20.36
5785.00	5.40	3.83	0.32	2.22	10.24	30.00 dBm/500kHz	-19.76
5825.00	4.08	4.58	0.32	2.22	9.89	30.00 dBm/500kHz	-20.11

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			POW	ER DENSITY 802.1	1ax 20 MODE			
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd F	PSD(dBm/MHz)	Limit	Margin (dB)
	full	2.07	4.49	0.22	6.	68	11.00 dBm/MHz	-4.32
5400	26/0	4.01	4.98	0.22	7.	75	11.00 dBm/MHz	-3.25
5180	52/37	1.56	5.01	0.22	6.	85	11.00 dBm/MHz	-4.15
	106/53	0.39	3.54	0.22	5.	47	11.00 dBm/MHz	-5.53
5220	full	2.01	1.36	0.22	4.	93	11.00 dBm/MHz	-6.07
5240	full	2.91	1.57	0.22	5.	52	11.00 dBm/MHz	-5.48
5260	full	2.82	1.73	0.22	5.	54	11.00 dBm/MHz	-5.46
5300	full	1.70	2.12	0.22	5.	15	11.00 dBm/MHz	-5.85
	full	2.24	0.33	0.22	4.	62	11.00 dBm/MHz	-6.38
5000	26/8	2.47	4.63	0.22	6.	91	11.00 dBm/MHz	-4.09
5320	52/40	6.44	4.54	0.22	8.	82	11.00 dBm/MHz	-2.18
	106/54	-0.14	0.33	0.22	3.	33	11.00 dBm/MHz	-7.67
	full	3.78	-0.33	0.22	5.	42	11.00 dBm/MHz	-5.58
5500	26/0	2.09	1.41	0.22	4.	99	11.00 dBm/MHz	-6.01
5500	52/37	5.56	2.74	0.22	7.	61	11.00 dBm/MHz	-3.39
	106/53	-2.28	-4.37	0.22	0.	03	11.00 dBm/MHz	-10.97
5580	full	4.19	1.76	0.22	6.	37	11.00 dBm/MHz	-4.63
	full	1.79	0.21	0.22	4.	30	11.00 dBm/MHz	-6.70
5700	26/8	3.65	0.92	0.22	5.	73	11.00 dBm/MHz	-5.27
5700	52/40	3.11	1.56	0.22	5.	63	11.00 dBm/MHz	-5.37
	106/54	-4.43	-2.82	0.22	-0.	32	11.00 dBm/MHz	-11.32
5720 (U-NII 2C)	full	4.34	1.66	0.22	6.	43	11.00 dBm/MHz	-4.57
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-4.58	-5.04	0.22	2.22	0.65	30.00 dBm/500kHz	-29.35
	full	3.43	4.39	0.22	2.22	9.39	30.00 dBm/500kHz	-20.61
5745	26/0	1.20	2.77	0.22	2.22	7.51	30.00 dBm/500kHz	-22.49
0140	52/37	6.40	5.83	0.22	2.22	11.57	30.00 dBm/500kHz	-18.43
	106/53	3.27	0.16	0.22	2.22	7.44	30.00 dBm/500kHz	-22.56
5785	full	4.38	4.25	0.22	2.22	9.77	30.00 dBm/500kHz	-20.23
	full	6.78	5.13	0.22	2.22	11.48	30.00 dBm/500kHz	-18.52
5825	26/8	-0.47	3.35	0.22	2.22	7.30	30.00 dBm/500kHz	-22.70
5025	52/40	6.52	5.61	0.22	2.22	11.54	30.00 dBm/500kHz	-18.46
	106/54	1.83	-1.84	0.22	2.22	5.82	30.00 dBm/500kHz	-24.18

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		POWER	DENSITY 802.1	1n HT40 MODE			
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd P	SD(dBm/MHz)	Limit	Margin (dB)
5190.00	-1.65	-2.80	0.32	1.1	14	11.00 dBm/MHz	-9.86
5230.00	-2.10	0.75	0.32	2.8	39	11.00 dBm/MHz	-8.11
5270.00	0.64	-0.69	0.32	3.0	36	11.00 dBm/MHz	-7.64
5310.00	-2.77	-0.06	0.32	2.	12	11.00 dBm/MHz	-8.88
5510.00	0.50	-0.60	0.32	3.0	32	11.00 dBm/MHz	-7.68
5550.00	-1.08	-0.68	0.32	2.4	15	11.00 dBm/MHz	-8.55
5670.00	1.72	-0.83	0.32	3.9	96	11.00 dBm/MHz	-7.04
5710 (U-NII 2C)	0.54	-2.07	0.32	2.7	76	11.00 dBm/MHz	-8.24
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500k Hz)	Limit	Margin (dB)
5710 (U-NII 3)	-7.08	-9.44	0.32	2.22	-2.55	30.00 dBm/500kHz	-32.55
5755.00	0.05	-0.73	0.32	2.22	5.23	30.00 dBm/500kHz	-24.77
5795.00	1.25	-0.42	0.32	2.22	6.05	30.00 dBm/500kHz	-23.95

			POW	ER DENSITY 802.1	1ax 40 MODE			
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-0.67	-0.15	0.22	2.	83	11.00 dBm/MHz	-8.17
5190	242/61	-3.21	0.30	0.22	2.	12	11.00 dBm/MHz	-8.88
5230	full	-3.36	-0.82	0.22	1.3	32	11.00 dBm/MHz	-9.68
5270	full	-2.56	-0.32	0.22	1.5	93	11.00 dBm/MHz	-9.07
5310	full	-0.26	-4.22	0.22	1.4	43	11.00 dBm/MHz	-9.57
3310	242/62	-2.27	-2.73	0.22	0.	74	11.00 dBm/MHz	-10.26
5510	full	-0.94	-2.10	0.22	1.	75	11.00 dBm/MHz	-9.25
3310	242/61	-6.10	-5.87	0.22	-2.75		11.00 dBm/MHz	-13.75
5550	full	0.90	-1.38	0.22	3.	14	11.00 dBm/MHz	-7.86
5670	full	-0.59	0.56	0.22	3.:	25	11.00 dBm/MHz	-7.75
3070	242/62	-1.39	-3.34	0.22	0.	97	11.00 dBm/MHz	-10.03
5710 (U-NII 2C)	full	-1.43	-1.51	0.22	1.	76	11.00 dBm/MHz	-9.24
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-6.87	-9.26	0.22	2.22	-2.45	30.00 dBm/500kHz	-32.45
5755	full	0.32	-0.24	0.22	2.22	5.50	30.00 dBm/500kHz	-24.50
5755	242/61	-2.32	-5.09	0.22	2.22	1.96	30.00 dBm/500kHz	-28.04
5795	full	0.86	-2.04	0.22	2.22	5.10	30.00 dBm/500kHz	-24.90
3793	242/62	-4.17	-5.38	0.22	2.22	0.72	30.00 dBm/500kHz	-29.28

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	POWER DENSITY 802.11ac VHT80 MODE										
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd P		Limit	Margin (dB)				
5210.00	-5.78	-4.27	0.41	-1.	54	11.00	dBm/MHz	-12.54			
5290.00	-6.56	-5.45	0.41	-2.	55	11.00	dBm/MHz	-13.55			
5530.00	-3.02	-2.86	0.41	0.48		11.00	dBm/MHz	-10.52			
5610.00	-3.10	-3.55	0.41	0.	10	11.00	dBm/MHz	-10.90			
5690 (U-NII 2C)	-0.15	-4.08	0.41	1.	74	11.00	dBm/MHz	-9.26			
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)		Limit	Margin (dB)			
5690 (U-NII 3)	-8.43	-12.45	0.41	2.22	-4.35	30.00	dBm/500kHz	-34.35			
5775.00	-5.98	-8.24	0.41	2.22	-1.32	30.00	dBm/500kHz	-31.32			

			POWE	R DENSITY 802.	11ax 80 MODE			
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd P	SD(dBm/MHz)	Limit	Margin (dB)
F240	full	-4.81	-2.78	0.22	-0.	45	11.00 dBm/MHz	-11.45
5210	484/65	-13.87	-13.32	0.22	-10	.36	11.00 dBm/MHz	-21.36
5290	full	-6.30	-4.58	0.22	-2.	13	11.00 dBm/MHz	-13.13
5290	484/66	-11.97	-13.62	0.22	-9.	49	11.00 dBm/MHz	-20.49
5530	full	-8.24	-8.48	0.22	-5.	13	11.00 dBm/MHz	-16.13
3330	484/65	-11.28	-11.11	0.22	-7.	96	11.00 dBm/MHz	-18.96
5610	full	-4.96	-4.47	0.22	-1.	48	11.00 dBm/MHz	-12.48
3010	484/66	-3.66	-5.35	0.22	-1.	19	11.00 dBm/MHz	-12.19
5690 (U-NII 2C	full	-2.69	-2.43	0.22	0.6	67	11.00 dBm/MHz	-10.33
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500k Hz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-11.63	-14.84	0.22	2.22	-7.49	30.00 dBm/500kHz	-37.49
	full	-5.76	-8.56	0.22	2.22	-1.49	30.00 dBm/500kHz	-31.49
5775	484/65	-13.46	-14.87	0.22	2.22	-8.66	30.00 dBm/500kHz	-38.66
	484/66	-10.56	-15.55	0.22	2.22	-6.92	30.00 dBm/500kHz	-36.92

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802.11n_20MHz_Chain0_5180MHz 802.11n 20MHz Chain0 5260MHz KEYSIGHT Ireput. RF Scale/Div 10 dE 2.383 dB Scale/Div 10 de 2.779 d Swept Span Zero Span Swept Span Zero Span Full Span Full Span 5.235000 AUTO TUNE AUTO TUNE Auto Man Auto Man X Y 5.182 30 GHz 2.383 dBm X Y 5.263 65 GHz 2.779 dBm X Axis Scale X Axis Scale ■ ? Mar 18, 2021 ● .:: 🔖 ■ 9 C ■ ? Mar 18, 2021 ● .:: 👺 802.11n_20MHz_Chain0_5300MHz 802.11n_20MHz_Chain0_5220MHz ٥ Frequency • ٥ KEYSIGHT Input R KEYSIGHT Input Ref Lvi Offset 12.45 dB Ref Level 20.00 dBm Ref Lvi Offset 12.45 dB Ref Level 20.00 dBm Swept Span Zero Span Swept Span Zero Span Stop Freq 5.245000000 GHz Stop Freq 5.325000000 GHz X Y 5.215 80 GHz 0.2595 dBm X Y 5.305 95 GHz 2.398 dBm Freq Offset 0 Hz Freq Offset 0 Hz X Axis Scale X Axis Scal ■ ? Mar 18, 2021 ■ 3.00:56 PM .: 🕦 🕾 🔀 1 5 C 1 ? Mar 18, 2021 .1: 😜 802.11n 20MHz Chain0 5240MHz 802.11n 20MHz Chain0 5320MHz ٥ ٥ KEYSIGHT Input RF KEYSIGHT Input. RE Genter Frequency 5.240000000 GHz ettings 5,3200 ettings Algn Auto Freq Ref. Int (S) Align Auto Freig Ref. Int (S) 1 Spectrum Scale/Div 10 dB 3,153 d Scale/Div 10 di Swept Span Zero Span Swept Span Zero Span Full Span Start Freq 5.215000000 GHb AUTO TUNE AUTO TUN Auto Man Auto Man X Y 5.238 70 GHz 3.153 dBn X Y 5,316 45 GHz -0.5352 dBm

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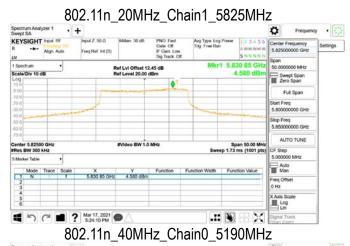
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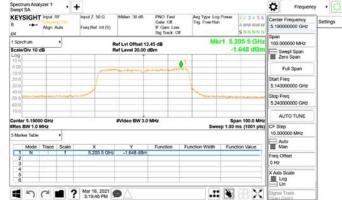
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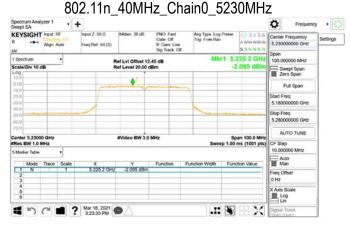


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802.11n 20MHz Chain1 5720MHz UNII 3 Scale/Div 10 dE -3.720 dE Swept Span Zero Span Full Span AUTO TUNE enter 5.72000 GH Res BW 300 kHz Auto Man X Y 5.726 80 GHz -3.720 dBm X Axis Scale ■ ? Mar 17, 2021 ● 5:12:29 PM .:: 🖫 802.11n_20MHz_Chain1_5745MHz ٥ Frequency • KEYSIGHT Input R Ref Lvi Offset 12.45 dB Ref Level 20.00 dBm Swept Span Zero Span • Full Span X Y 5.748 40 GHz 3.063 dBm Freq Offset 0 Hz X Axis Scale ■ ? Mar 17, 2021 ● .: N = X 802.11n 20MHz Chain1 5785MHz ٥ KEYSIGHT Input RF ettings Algn Auto 1 Spectrum Scale/Div 10 dB 3.833 d Swept Span Zero Span Full Span AUTO TUNE







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X Y 5.782 80 GHz 3.833 dBn

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802.11n 40MHz Chain0 5710MHz UNII 3 802.11n 40MHz Chain1 5190MHz 5.177 3 G Scale/Div 10 dE -7.079 d Scale/Div 10 de -2.804 c Swept Span Zero Span Swept Span Zero Span Full Span Full Span Start Freq 5,6600000 AUTO TUNE AUTO TUNE enter 5.71000 GH Res BW 300 kHz Auto Man Auto Man X Y 5.725 2 GHz -7.079 dBm 5.177 3 GHz -2.804 dBm X Axis Scale X Axis Scale ■ ? Mar 17, 2021 ● 1 5 C 1 ? Mar 18, 2021 9 .:: 🕞 .:: 👺 802.11n_40MHz_Chain0_5755MHz 802.11n_40MHz_Chain1_5230MHz ٥ Frequency • ٥ . 5,5 KEYSIGHT Input RI KEYSIGHT Input Ref Lvi Offset 12.45 dB Ref Level 20.00 dBm Ref Lvi Offset 12.45 dB Ref Level 20.00 dBm Swept Span Zero Span Swept Span Zero Span Stop Freq 5.805000000 GHz Stop Freq 5.280000000 GHz X Y 5.743 2 GHz 0.04727 dBm X Y 5.216 4 GHz 0.7508 dBm Freq Offset 0 Hz Freq Offset 0 Hz X Axis Scale X Axis Scal ■ ? Mar 18, 2021 ● ■ ? Mar 17, 2021 ● .:: 😵 .: 🕦 🕾 🔀 802.11n 40MHz Chain0 5795MHz 802.11n 40MHz Chain1 5270MHz ٥ ٥ KEYSIGHT Input RF R Align Auto KEYSIGHT Input RF Center F 5,27000 ettings Algn Auto Freq Ref. Int (S) Freig Ref. Int (S) 1 Spectrum Scale/Div 10 dB 5.797 6 GH 5.279 2 G 1.247 d Scale/Div 10 dB Swept Span Zero Span Swept Span Zero Span Full Span Start Freq 5.220000 AUTO TUNE AUTO TUN Auto Man Auto Man X Y 5.797 6 GHz 1.247 dBn X Y 5.279 2 GHz -0.6856 dBm

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