

A.8 CONTENTION BASED PROTOCOL

Test Date	2022/07/09 ~ 11	Temp./Hum.	25-26°C/41-47%
Cable Loss	N/A	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Contention-based Protocol

● Contention-based Protocol Threshold Incumbent Signal & Mini. Detection level

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	AWGN Power (dBm)	Min. Antenna Gain (dBi)	Path Loss (dB)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax-HE20	5	6135	6135	-34	1.9	-28.00	-63.90	-62	OFF
			6135	-41	1.9	-28.00	-70.90	-62	Minimum
			6135	-55	1.9	-28.00	-84.90	-62	ON
	6	6455	6455	-31	1.9	-31.00	-63.90	-62	OFF
			6455	-47	1.9	-31.00	-79.90	-62	Minimum
			6455	-49	1.9	-31.00	-81.90	-62	ON
	7	6695	6695	-35.5	1.9	-26.50	-63.90	-62	OFF
			6695	-44	1.9	-26.50	-72.40	-62	Minimum
			6695	-50	1.9	-26.50	-78.40	-62	ON
	8	7015	7015	-33.5	1.9	-28.50	-63.90	-62	OFF
			7015	-36.5	1.9	-28.50	-66.90	-62	Minimum
			7015	-46	1.9	-28.50	-76.40	-62	ON

Note 1: The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
 - Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
 - ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.
- Detected level (Adjusted Power) = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB).

Note 2: The EUT don't support channel puncturing or BW reduction mechanism.

Mode	U-NII Band	EUT Frequency (MHz)	AWGN Frequency (MHz)	AWGN Power (dBm)	Min. Antenna Gain (dBi)	Path Loss (dB)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax-HE160	5	6185	6110	-36	1.9	-26.00	-63.90	-62	OFF
			6110	-49	1.9	-26.00	-76.90	-62	Minimum
			6110	-52	1.9	-26.00	-79.90	-62	ON
			6185	-35	1.9	-27.00	-63.90	-62	OFF
			6185	-40.5	1.9	-27.00	-69.40	-62	Minimum
			6185	-46	1.9	-27.00	-74.90	-62	ON
			6260	-39.5	1.9	-22.50	-63.90	-62	OFF
			6260	-43.5	1.9	-22.50	-67.90	-62	Minimum
	6-7	6505	6430	-35	1.9	-27.00	-63.90	-62	OFF
			6430	-45	1.9	-27.00	-73.90	-62	Minimum
			6430	-48	1.9	-27.00	-76.90	-62	ON
			6505	-38	1.9	-24.00	-63.90	-62	OFF
			6505	-44.5	1.9	-24.00	-70.40	-62	Minimum
			6505	-46	1.9	-24.00	-71.90	-62	ON
			6580	-35	1.9	-27.00	-63.90	-62	OFF
			6580	-42	1.9	-27.00	-70.90	-62	Minimum
	7	6665	6580	-43.5	1.9	-27.00	-72.40	-62	ON
			6590	-36	1.9	-26.00	-63.90	-62	OFF
			6590	-48.5	1.9	-26.00	-76.40	-62	Minimum
			6590	-50	1.9	-26.00	-77.90	-62	ON
			6665	-30	1.9	-32.00	-63.90	-62	OFF
			6665	-36.5	1.9	-32.00	-70.40	-62	Minimum
			6665	-39.5	1.9	-32.00	-73.40	-62	ON
			6740	-30	1.9	-32.00	-63.90	-62	OFF
	8	6985	6740	-38	1.9	-32.00	-71.90	-62	Minimum
			6740	-41	1.9	-32.00	-74.90	-62	ON
			6910	-31	1.9	-31.00	-63.90	-62	OFF
			6910	-45	1.9	-31.00	-77.90	-62	Minimum
			6910	-47.5	1.9	-31.00	-80.40	-62	ON
			6985	-33	1.9	-29.00	-63.90	-62	OFF
			6985	-36.5	1.9	-29.00	-67.40	-62	Minimum
			6985	-42	1.9	-29.00	-72.90	-62	ON
	8	6985	7060	-33	1.9	-29.00	-63.90	-62	OFF
			7060	-35.5	1.9	-29.00	-66.40	-62	Minimum
			7060	-37	1.9	-29.00	-67.90	-62	ON

Note 1: The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
 - Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
 - ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.
- Detected level (Adjusted Power) = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB).

Note 2: The EUT don't support channel puncturing or BW reduction mechanism.

● Summary table

Mode	U-NII Band	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)	
802.11ax-HE20	5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90	
	6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90	
	7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90	
	8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90	
802.11ax-HE160	5	6185	6110	1	1	1	1	1	1	1	1	1	1	100	90	
			6185	1	1	1	1	1	1	1	1	1	1	1	100	90
			6260	1	1	1	1	1	1	1	1	1	1	1	100	90
	6-7	6505	6430	1	1	1	1	1	1	1	1	1	1	1	100	90
			6505	1	1	1	1	1	1	1	1	1	1	1	100	90
			6580	1	1	1	1	1	1	1	1	1	1	1	100	90
	7	6665	6590	1	1	1	1	1	1	1	1	1	1	1	100	90
			6665	1	1	1	1	1	1	1	1	1	1	1	100	90
			6740	1	1	1	1	1	1	1	1	1	1	1	100	90
	8	6985	6910	1	1	1	1	1	1	1	1	1	1	1	100	90
			6985	1	1	1	1	1	1	1	1	1	1	1	100	90
			7060	1	1	1	1	1	1	1	1	1	1	1	100	90

Note: CBP Detection Trials (1= Detection, 0= No Detection)

A.8.2 Measurement Plots





