Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

A.8 CONTENTION BASED PROTOCOL

Test Date	2022/10/25 ~ 27	Temp./Hum.	23℃/58 ~ 60%
Cable Loss	N/A	Tested By	Kuper Hsu
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	-36.00	-3.40	-38.00	-70.60	-62	OFF
			6135	-40.00	-3.40	-38.00	-74.60	-62	Minimum
			6135	-43.00	-3.40	-38.00	-77.60	-62	ON
	6	6455	6455	-38.00	-3.40	-36.00	-70.60	-62	OFF
			6455	-43.00	-3.40	-36.00	-75.60	-62	Minimum
			6455	-46.00	-3.40	-36.00	-78.60	-62	ON
	7	6695	6695	-36.00	-3.40	-34.50	-67.10	-62	OFF
			6695	-44.00	-3.40	-34.50	-75.10	-62	Minimum
			6695	-46.00	-3.40	-34.50	-77.10	-62	ON
	8	7015	7015	-38.00	-3.40	-34.50	-69.10	-62	OFF
			7015	-45.00	-3.40	-34.50	-76.10	-62	Minimum
			7015	-48.00	-3.40	-34.50	-79.10	-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.

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

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	-40.00	-3.40	-37.00	-73.60	-62	OFF
			6110	-44.00	-3.40	-37.00	-77.60	-62	Minimum
			6110	-46.00	-3.40	-37.00	-79.60	-62	ON
			6185	-36.00	-3.40	-36.30	-68.90	-62	OFF
			6185	-39.00	-3.40	-36.30	-71.90	-62	Minimum
			6185	-42.00	-3.40	-36.30	-74.90	-62	ON
			6260	-35.00	-3.40	-36.30	-67.90	-62	OFF
			6260	-37.00	-3.40	-36.30	-69.90	-62	Minimum
			6260	-40.00	-3.40	-36.30	-72.90	-62	ON
	6-7	6505	6430	-40.00	-3.40	-40.00	-76.60	-62	OFF
			6430	-45.00	-3.40	-40.00	-81.60	-62	Minimum
			6430	-47.00	-3.40	-40.00	-83.60	-62	ON
			6505	-36.00	-3.40	-39.00	-71.60	-62	OFF
			6505	-41.00	-3.40	-39.00	-76.60	-62	Minimum
			6505	-44.00	-3.40	-39.00	-79.60	-62	ON
			6580	-35.00	-3.40	-38.50	-70.10	-62	OFF
			6580	-38.00	-3.40	-38.50	-73.10	-62	Minimum
			6580	-41.00	-3.40	-38.50	-76.10	-62	ON
	7	6665	6590	-42.00	-3.40	-39.00	-77.60	-62	OFF
			6590	-45.00	-3.40	-39.00	-80.60	-62	Minimum
			6590	-48.00	-3.40	-39.00	-83.60	-62	ON
			6665	-34.00	-3.40	-40.00	-70.60	-62	OFF
			6665	-39.00	-3.40	-40.00	-75.60	-62	Minimum
			6665	-42.00	-3.40	-40.00	-78.60	-62	ON
			6740	-35.00	-3.40	-40.50	-72.10	-62	OFF
			6740	-37.00	-3.40	-40.50	-74.10	-62	Minimum
			6740	-40.00	-3.40	-40.50	-77.10	-62	ON
	8	6985	6910	-33.00	-3.40	-36.50	-66.10	-62	OFF
			6910	-40.00	-3.40	-36.50	-73.10	-62	Minimum
			6910	-43.00	-3.40	-36.50	-76.10	-62	ON
			6985	-39.00	-3.40	-37.00	-72.60	-62	OFF
			6985	-43.00	-3.40	-37.00	-76.60	-62	Minimum
			6985	-46.00	-3.40	-37.00	-79.60	-62	ON
			7060	-42.00	-3.40	-37.00	-75.60	-62	OFF
			7060	-45.00	-3.40	-37.00	-78.60	-62	Minimum
			7060	-47.00	-3.40	-37.00	-80.60	-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.

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

- 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	100	90
			6260	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	100	90
			6505	1	1	1	1	1	1	1	1	1	1	100	90
			6580	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	100	90
			6665	1	1	1	1	1	1	1	1	1	1	100	90
			6740	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	100	90
			6985	1	1	1	1	1	1	1	1	1	1	100	90
			7060	1	1	1	1	1	1	1	1	1	1	100	90

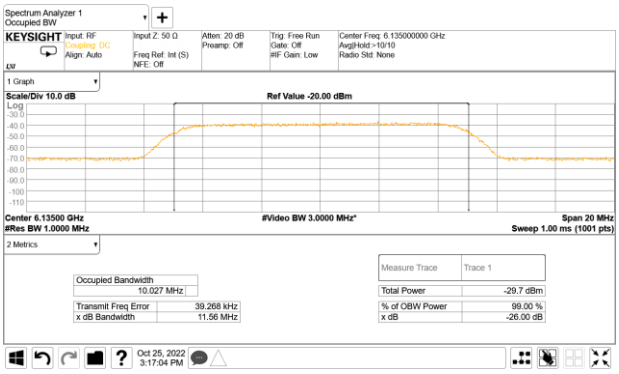
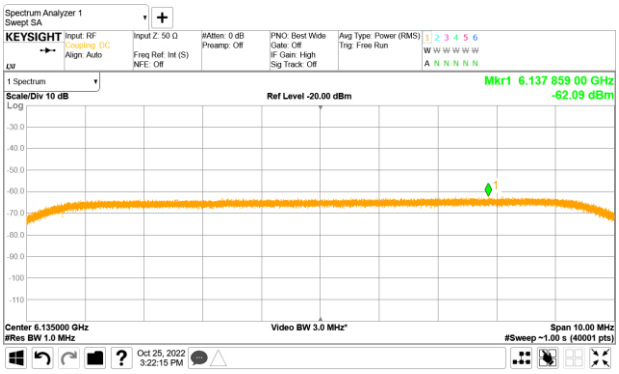
Note: CBP Detection Trials (1= Detection, 0= No Detection)

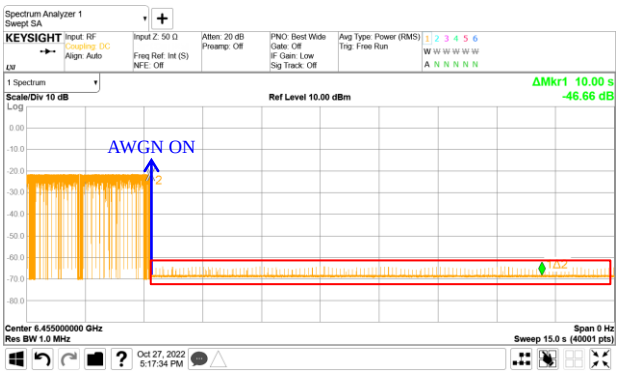
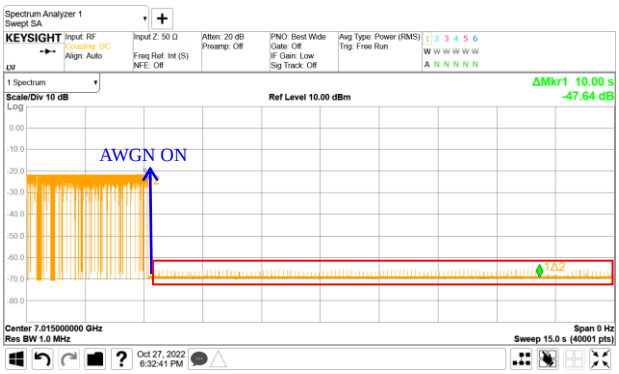
This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.8.2 Measurement Plots

Incumbent Signal (AWGN) Bandwidth	Incumbent Signal (AWGN) Threshold Level
	

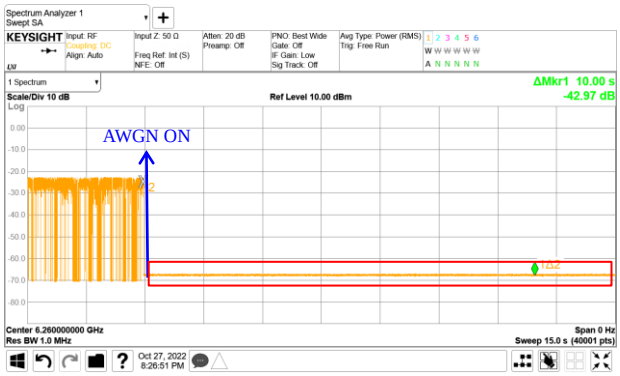
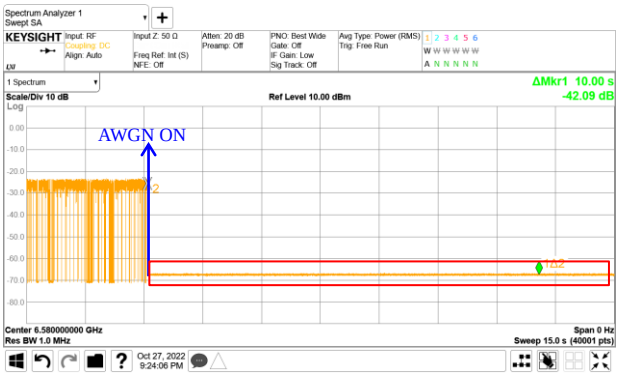
802.11ax-HE20	
Incumbent Frequency	
6135MHz	6695MHz
6455MHz	7015MHz
	

Note: The emissions (red circle) are beacon signals from companion device (AP). The EUT are disconnected with AP so the situation means transmission cease.

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

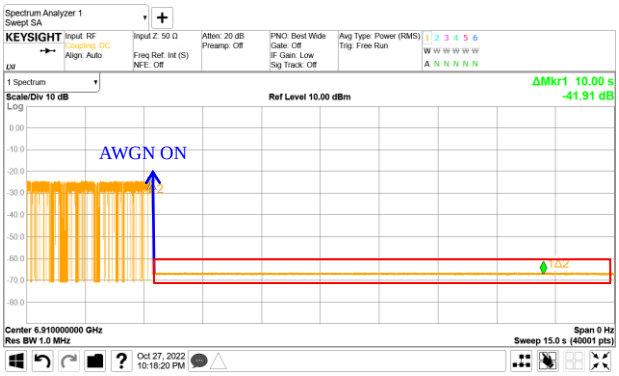
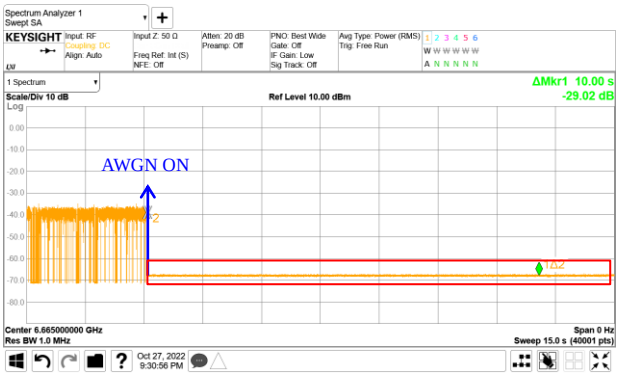
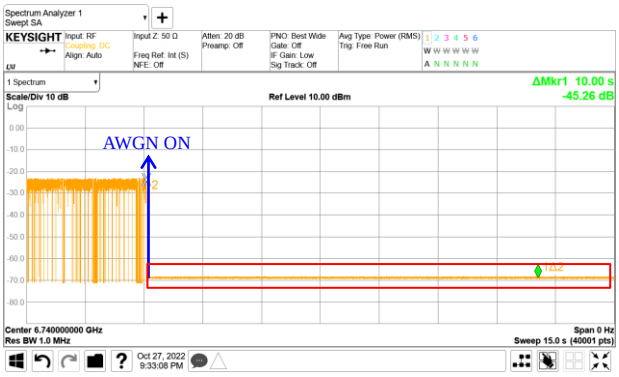
802.11ax-HE160	
Centre Frequency: 6185MHz	Centre Frequency: 6505MHz
Incumbent Frequency	Incumbent Frequency
6110MHz	6430MHz
6185MHz	6505MHz
6260MHz	6580MHz
	

Note: The emissions (red circle) are beacon signals from companion device (AP). The EUT are disconnected with AP so the situation means transmission cease.

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

802.11ax-HE160	
Centre Frequency: 6665MHz	Centre Frequency: 6985MHz
Incumbent Frequency	Incumbent Frequency
6590MHz	6910MHz
	
6665MHz	6985MHz
	
6740MHz	7060MHz
	

Note: The emissions (red circle) are beacon signals from companion device (AP). The EUT are disconnected with AP so the situation means transmission cease.

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244,Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

APPDNDIX B

TEST PHOTOGRAPHS

(Model: 16Z90RS)

This test report may be reproduced in full only. The document may only be updated by Audix Technology Corp. personnel. Any changes will be noted in the Document History section of the report.