

A.8 CONTENTION BASED PROTOCOL

Test Date	2024/11/14~18	Temp./Hum.	23~24°C/56~65%
Cable Loss	4.47 dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

Audix Technology Corp.

No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

A.8.1 Contention-based Protocol

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

With INPAQ Antenna

Mode 802.11be- EHT20	EUT Frequency (MHz)	AWGN Frequency (MHz)	SG power level (dBm)	Path Loss (dB)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
U-NII Band 5	6135	6135	-34	-41.78	-75.78	0.9	-76.68	-62	OFF
	6135	6135	-41	-41.78	-82.78	0.9	-83.68	-62	Minimum
	6135	6135	-43	-41.78	-84.78	0.9	-85.68	-62	ON
U-NII Band 6	6455	6455	-34	-39.30	-73.30	0.9	-74.20	-62	OFF
	6455	6455	-39	-39.30	-78.30	0.9	-79.20	-62	Minimum
	6455	6455	-41	-39.30	-80.30	0.9	-81.20	-62	ON
U-NII Band 7	6695	6695	-36	-38.84	-74.84	0.9	-75.74	-62	OFF
	6695	6695	-41	-38.84	-79.84	0.9	-80.74	-62	Minimum
	6695	6695	-43	-38.84	-81.84	0.9	-82.74	-62	ON
U-NII Band 8	7015	7015	-35	-38.92	-73.92	0.9	-74.82	-62	OFF
	7015	7015	-43	-38.92	-81.92	0.9	-82.82	-62	Minimum
	7015	7015	-45	-38.92	-83.92	0.9	-84.82	-62	ON
Mode 802.11be- EHT320	EUT Frequency (MHz)	AWGN Frequency (MHz)	SG power level (dBm)	Path Loss (dB)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
U-NII Band 5	6105	5950	-36	-40.96	-76.96	0.9	-77.86	-62	OFF
		5950	-40	-40.96	-80.96	0.9	-81.86	-62	Minimum
		5950	-42	-40.96	-82.96	0.9	-83.86	-62	ON
		6105	-34	-41.63	-75.63	0.9	-76.53	-62	OFF
		6105	-39	-41.63	-80.63	0.9	-81.53	-62	Minimum
		6105	-41	-41.63	-82.63	0.9	-83.53	-62	ON
		6260	-37	-41.23	-78.23	0.9	-79.13	-62	OFF
		6260	-41	-41.23	-82.23	0.9	-83.13	-62	Minimum
U-NII Band 5/6/7	6425	6270	-36	-39.98	-75.98	0.9	-76.88	-62	OFF
		6270	-39	-39.98	-78.98	0.9	-79.88	-62	Minimum
		6270	-40	-39.98	-79.98	0.9	-80.88	-62	ON
		6425	-33	-39.96	-72.96	0.9	-73.86	-62	OFF
		6425	-39	-39.96	-78.96	0.9	-79.86	-62	Minimum
		6425	-40	-39.96	-79.96	0.9	-80.86	-62	ON
		6580	-37	-39.51	-76.51	0.9	-77.41	-62	OFF
		6580	-40	-39.51	-79.51	0.9	-80.41	-62	Minimum
U-NII Band 7/8	6745	6580	-41	-39.51	-80.51	0.9	-81.41	-62	ON
		6590	-38	-41.55	-79.55	0.9	-80.45	-62	OFF
		6590	-41	-41.55	-82.55	0.9	-83.45	-62	Minimum
		6590	-43	-41.55	-84.55	0.9	-85.45	-62	ON
		6745	-35	-41.91	-76.91	0.9	-77.81	-62	OFF
		6745	-40	-41.91	-81.91	0.9	-82.81	-62	Minimum
		6745	-41	-41.91	-82.91	0.9	-83.81	-62	ON
		6900	-36	-41.67	-77.67	0.9	-78.57	-62	OFF
U-NII Band 7/8	6905	6900	-39	-41.67	-80.67	0.9	-81.57	-62	Minimum
		6900	-41	-41.67	-82.67	0.9	-83.57	-62	ON
		6750	-38	-40.94	-78.94	0.9	-79.84	-62	OFF
		6750	-41	-40.94	-81.94	0.9	-82.84	-62	Minimum
		6750	-42	-40.94	-82.94	0.9	-83.84	-62	ON
		6905	-34	-40.67	-74.67	0.9	-75.57	-62	OFF
		6905	-39	-40.67	-79.67	0.9	-80.57	-62	Minimum
		6905	-41	-40.67	-81.67	0.9	-82.57	-62	ON
U-NII Band 7/8	6905	7060	-37	-39.91	-76.91	0.9	-77.81	-62	OFF
		7060	-40	-39.91	-79.91	0.9	-80.81	-62	Minimum
		7060	-42	-39.91	-81.91	0.9	-82.81	-62	ON
		7060	-42	-39.91	-81.91	0.9	-82.81	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) *Note1.

Note 3: 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.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

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

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

With LUXSHARE-ICT Antenna

Mode 802.11be- EHT20	EUT Frequency (MHz)	AWGN Frequency (MHz)	SG power level (dBm)	Path Loss (dB)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
U-NII Band 5	6135	6135	6135	-34	-41.78	-75.78	-0.3	-75.48	OFF
	6135	6135	6135	-41	-41.78	-82.78	-0.3	-82.48	Minimum
	6135	6135	6135	-43	-41.78	-84.78	-0.3	-84.48	ON
U-NII Band 6	6455	6455	6455	-34	-39.3	-73.3	-0.3	-73	OFF
	6455	6455	6455	-39	-39.3	-78.3	-0.3	-78	Minimum
	6455	6455	6455	-41	-39.3	-80.3	-0.3	-80	ON
U-NII Band 7	6695	6695	6695	-36	-38.84	-74.84	-0.3	-74.54	OFF
	6695	6695	6695	-41	-38.84	-79.84	-0.3	-79.54	Minimum
	6695	6695	6695	-43	-38.84	-81.84	-0.3	-81.54	ON
U-NII Band 8	7015	7015	7015	-35	-38.92	-73.92	-0.3	-73.62	OFF
	7015	7015	7015	-43	-38.92	-81.92	-0.3	-81.62	Minimum
	7015	7015	7015	-45	-38.92	-83.92	-0.3	-83.62	ON
Mode 802.11be- EHT320	EUT Frequency (MHz)	AWGN Frequency (MHz)	SG power level (dBm)	Path Loss (dB)	Injected AWGN Power (dBm)	Min. Antenna Gain (Include path loss) (dBi) *Note1	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
U-NII Band 5	6105	5950	-36	-40.96	-76.96	-0.3	-76.66	-62	OFF
		5950	-40	-40.96	-80.96	-0.3	-80.66	-62	Minimum
		5950	-42	-40.96	-82.96	-0.3	-82.66	-62	ON
		6105	-34	-41.63	-75.63	-0.3	-75.33	-62	OFF
		6105	-39	-41.63	-80.63	-0.3	-80.33	-62	Minimum
		6105	-41	-41.63	-82.63	-0.3	-82.33	-62	ON
		6260	-37	-41.23	-78.23	-0.3	-77.93	-62	OFF
		6260	-41	-41.23	-82.23	-0.3	-81.93	-62	Minimum
U-NII Band 5/6/7	6425	6270	-36	-39.98	-75.98	-0.3	-75.68	-62	OFF
		6270	-39	-39.98	-78.98	-0.3	-78.68	-62	Minimum
		6270	-40	-39.98	-79.98	-0.3	-79.68	-62	ON
		6425	-33	-39.96	-72.96	-0.3	-72.66	-62	OFF
		6425	-39	-39.96	-78.96	-0.3	-78.66	-62	Minimum
		6425	-40	-39.96	-79.96	-0.3	-79.66	-62	ON
		6580	-37	-39.51	-76.51	-0.3	-76.21	-62	OFF
		6580	-40	-39.51	-79.51	-0.3	-79.21	-62	Minimum
U-NII Band 7/8	6745	6580	-41	-39.51	-80.51	-0.3	-80.21	-62	ON
		6590	-38	-41.55	-79.55	-0.3	-79.25	-62	OFF
		6590	-41	-41.55	-82.55	-0.3	-82.25	-62	Minimum
		6590	-43	-41.55	-84.55	-0.3	-84.25	-62	ON
		6745	-35	-41.91	-76.91	-0.3	-76.61	-62	OFF
		6745	-40	-41.91	-81.91	-0.3	-81.61	-62	Minimum
		6745	-41	-41.91	-82.91	-0.3	-82.61	-62	ON
		6900	-36	-41.67	-77.67	-0.3	-77.37	-62	OFF
U-NII Band 7/8	6905	6900	-39	-41.67	-80.67	-0.3	-80.37	-62	Minimum
		6900	-41	-41.67	-82.67	-0.3	-82.37	-62	ON
		6750	-38	-40.94	-78.94	-0.3	-78.64	-62	OFF
		6750	-41	-40.94	-81.94	-0.3	-81.64	-62	Minimum
		6750	-42	-40.94	-82.94	-0.3	-82.64	-62	ON
		6905	-34	-40.67	-74.67	-0.3	-74.37	-62	OFF
		6905	-39	-40.67	-79.67	-0.3	-79.37	-62	Minimum
		6905	-41	-40.67	-81.67	-0.3	-81.37	-62	ON
U-NII Band 7/8	6905	7060	-37	-39.91	-76.91	-0.3	-76.61	-62	OFF
		7060	-40	-39.91	-79.91	-0.3	-79.61	-62	Minimum
		7060	-42	-39.91	-81.91	-0.3	-81.61	-62	ON
		7060	-42	-39.91	-81.91	-0.3	-81.61	-62	ON

Note 1: the listed Min. gain of EUT was included path loss.

Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) *Note1.

Note 3: 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.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.

Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.

Audix Technology Corp.
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New Taipei City 244, Taiwan

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

● Summary table

With INPAQ Antenna

Mode 802.11be-EHT20	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
U-NII Band 5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90
Mode 802.11be-EHT320	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
U-NII Band 5	6105	5950	1	1	1	1	1	1	1	1	1	1	100	90
		6105	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
U-NII Band 5/6/7	6425	6270	1	1	1	1	1	1	1	1	1	1	100	90
		6425	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
U-NII Band 7/8	6745	6590	1	1	1	1	1	1	1	1	1	1	100	90
		6745	1	1	1	1	1	1	1	1	1	1	100	90
		6900	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 7/8	6905	6750	1	1	1	1	1	1	1	1	1	1	100	90
		6905	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)

With LUXSHARE-ICT Antenna

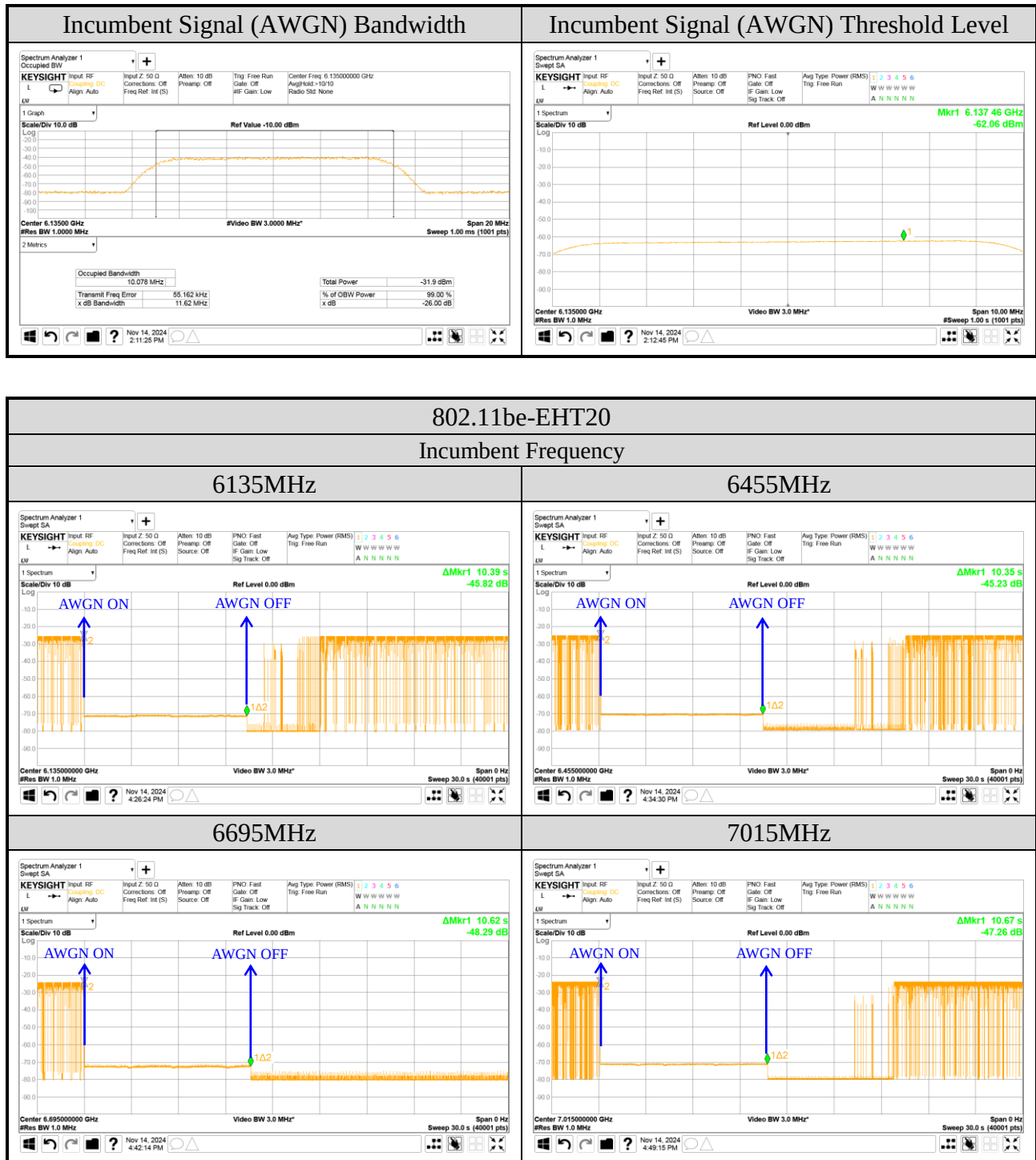
Mode 802.11be-EHT20	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
U-NII Band 5	6135	6135	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 6	6455	6455	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 7	6695	6695	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 8	7015	7015	1	1	1	1	1	1	1	1	1	1	100	90
Mode 802.11be-EHT320	Centre Frequency (MHz)	Incumbent Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Possibility (%)	Limit (%)
U-NII Band 5	6105	5950	1	1	1	1	1	1	1	1	1	1	100	90
		6105	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
U-NII Band 5/6/7	6425	6270	1	1	1	1	1	1	1	1	1	1	100	90
		6425	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
U-NII Band 7/8	6745	6590	1	1	1	1	1	1	1	1	1	1	100	90
		6745	1	1	1	1	1	1	1	1	1	1	100	90
		6900	1	1	1	1	1	1	1	1	1	1	100	90
U-NII Band 7/8	6905	6750	1	1	1	1	1	1	1	1	1	1	100	90
		6905	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)

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

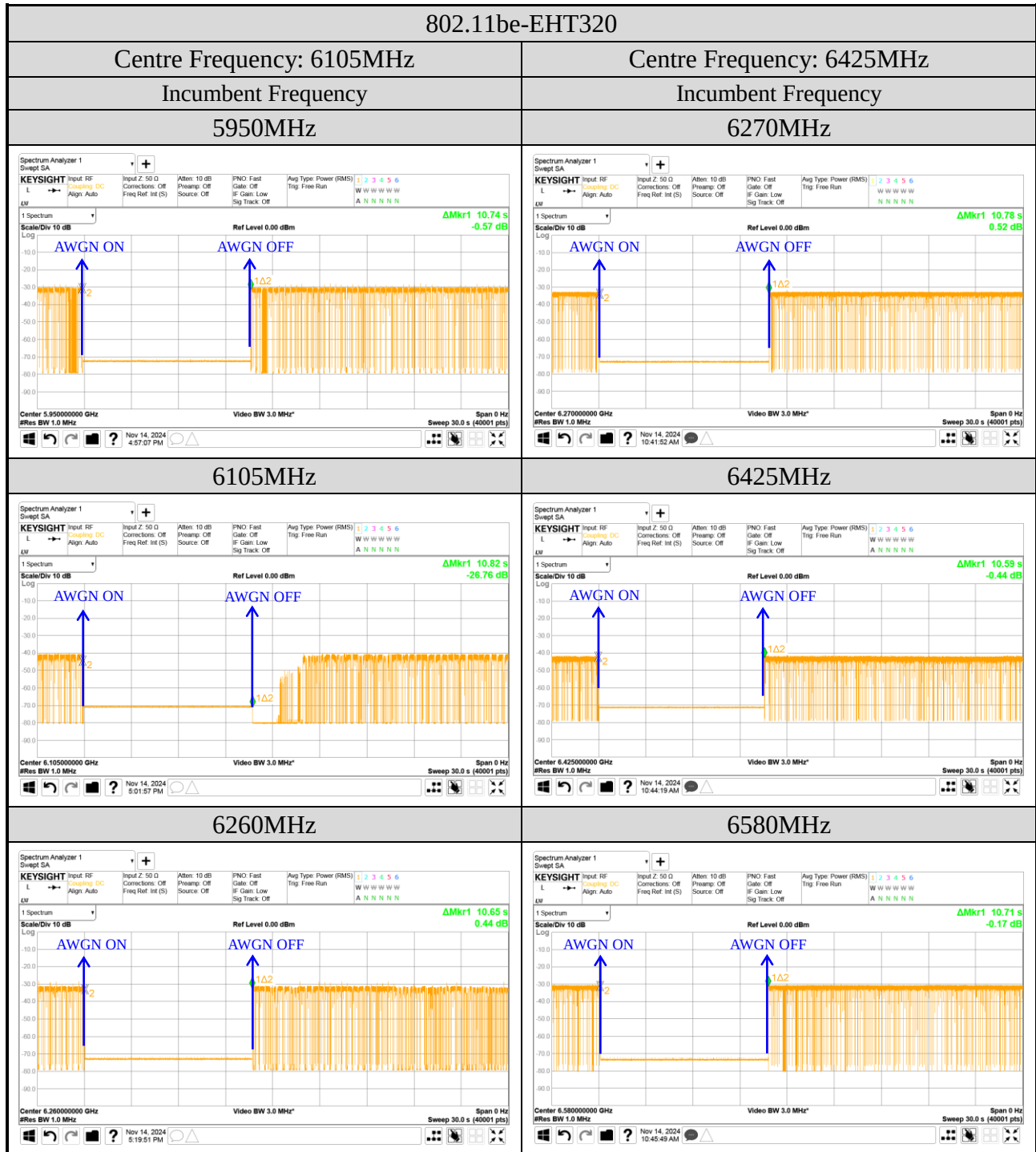
Tel: +886 2 26099301
Fax: +886 2 26099303

A.8.2 Measurement Plots



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

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



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

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

