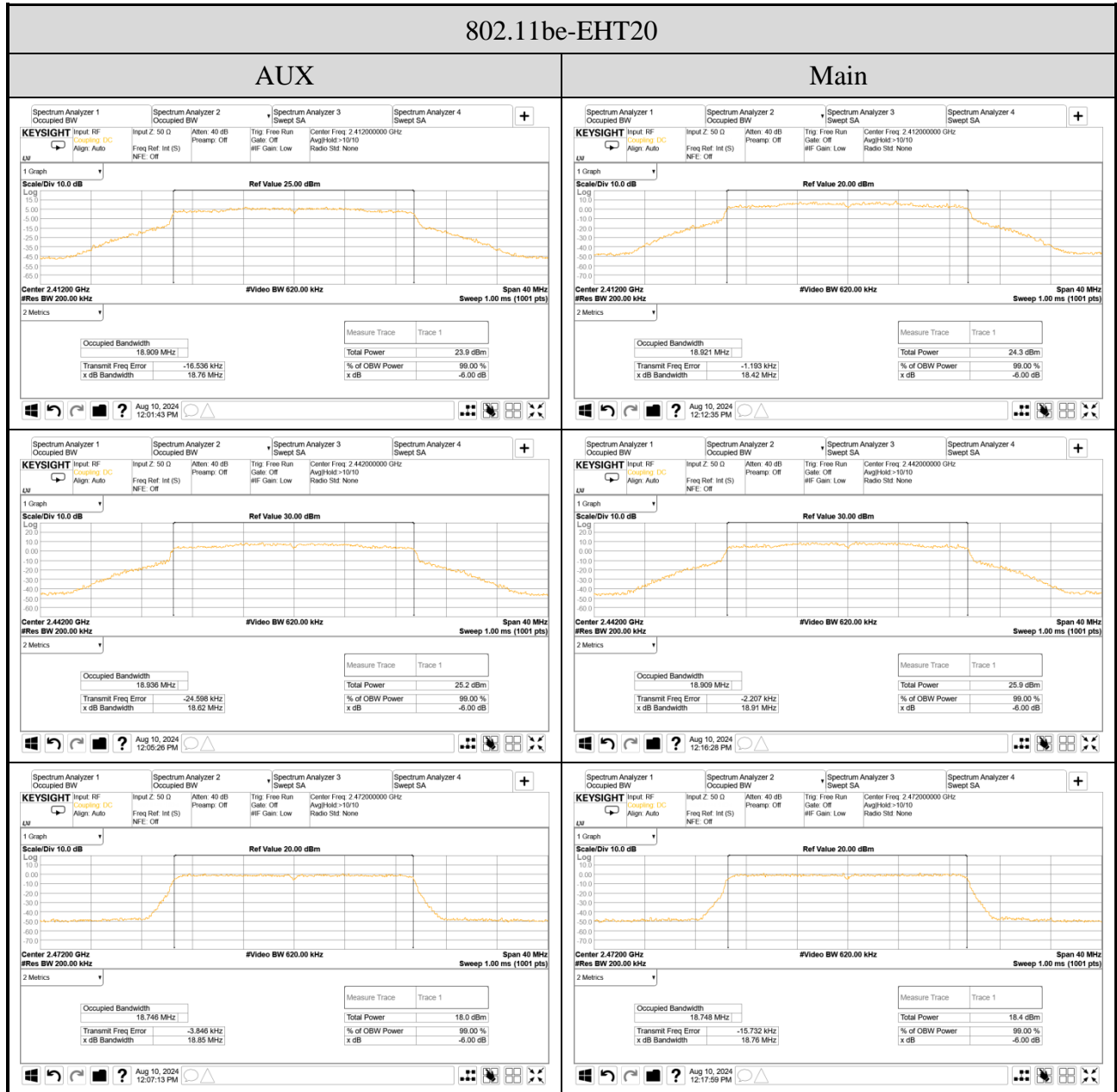
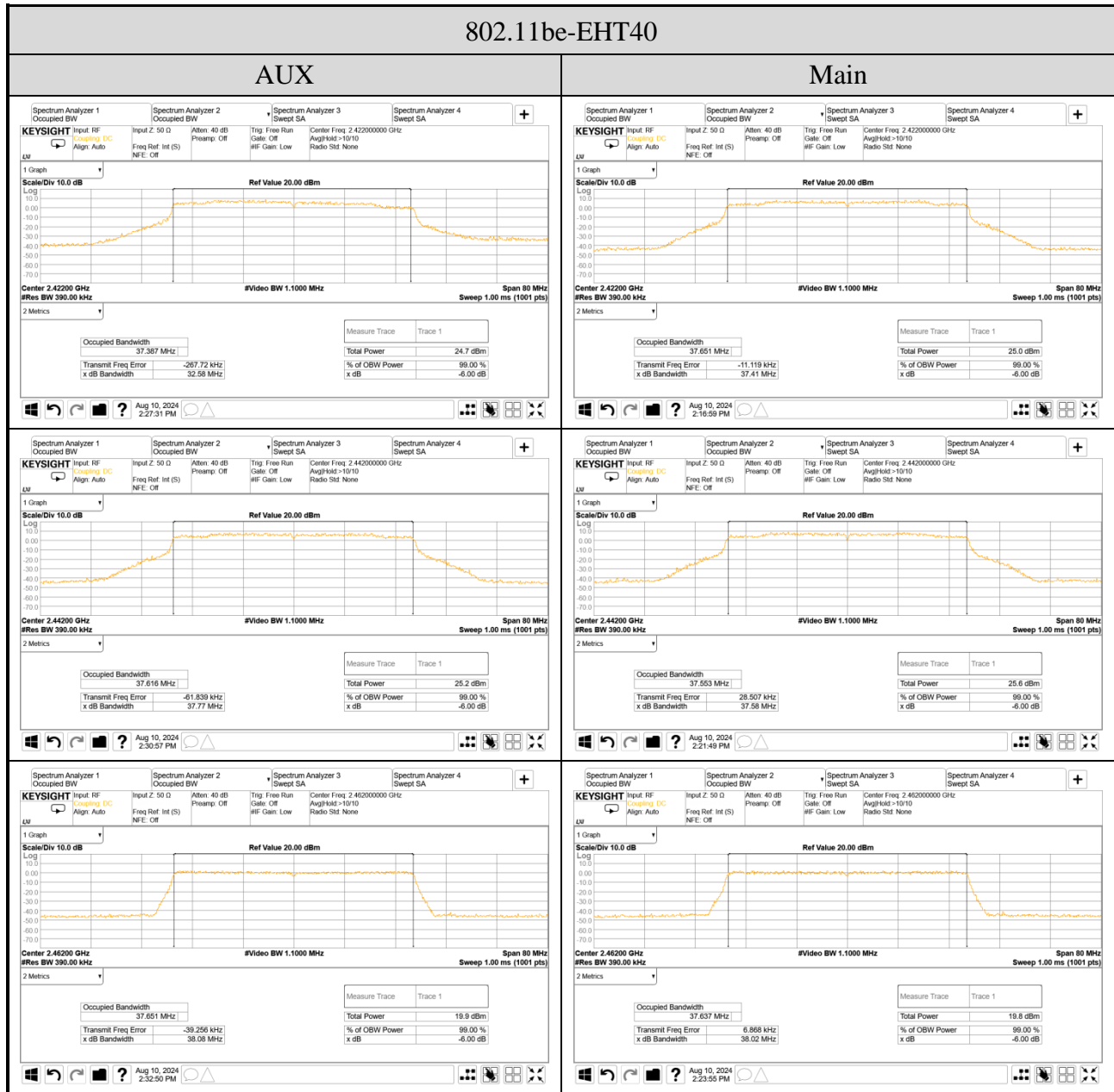
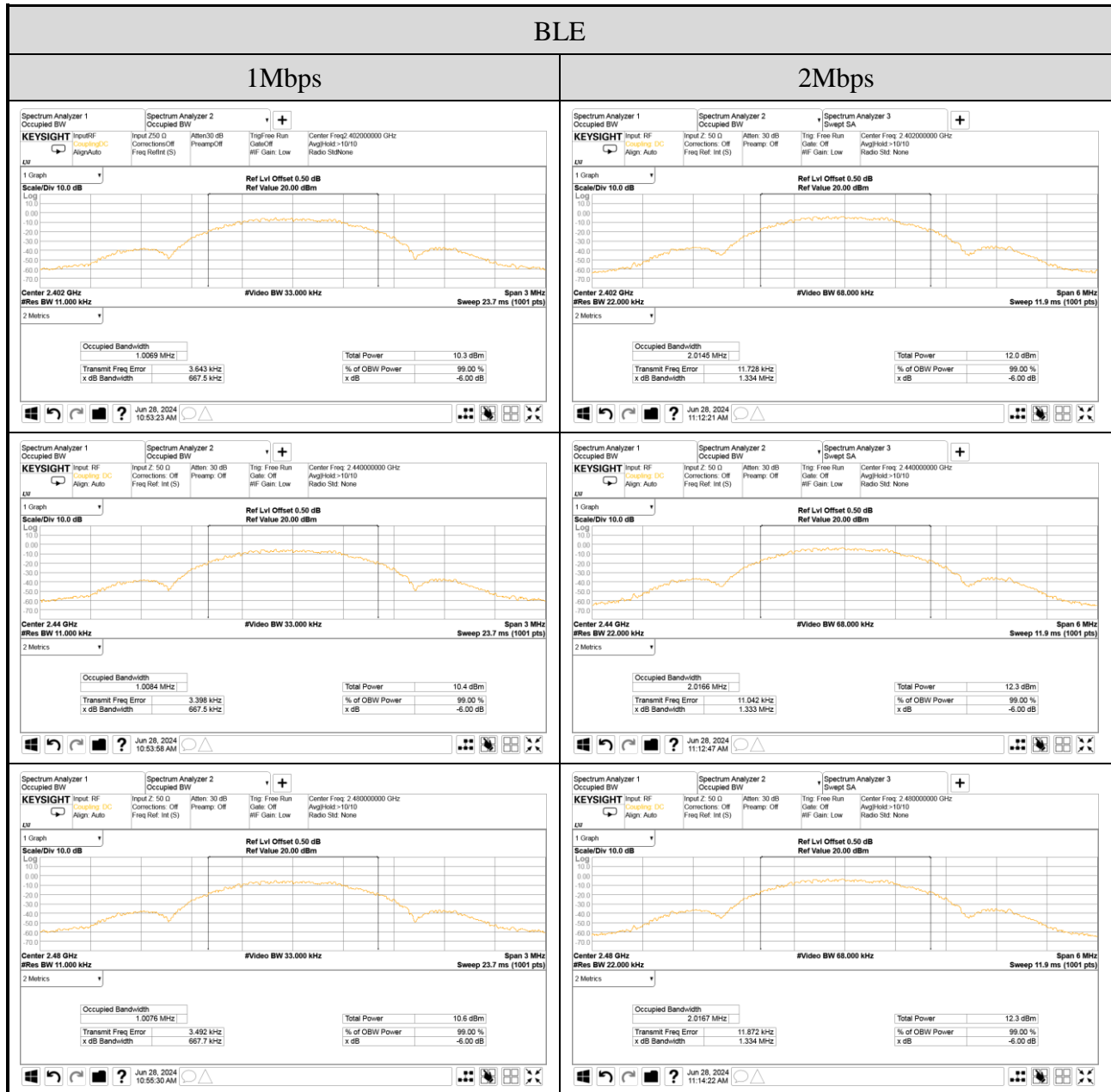


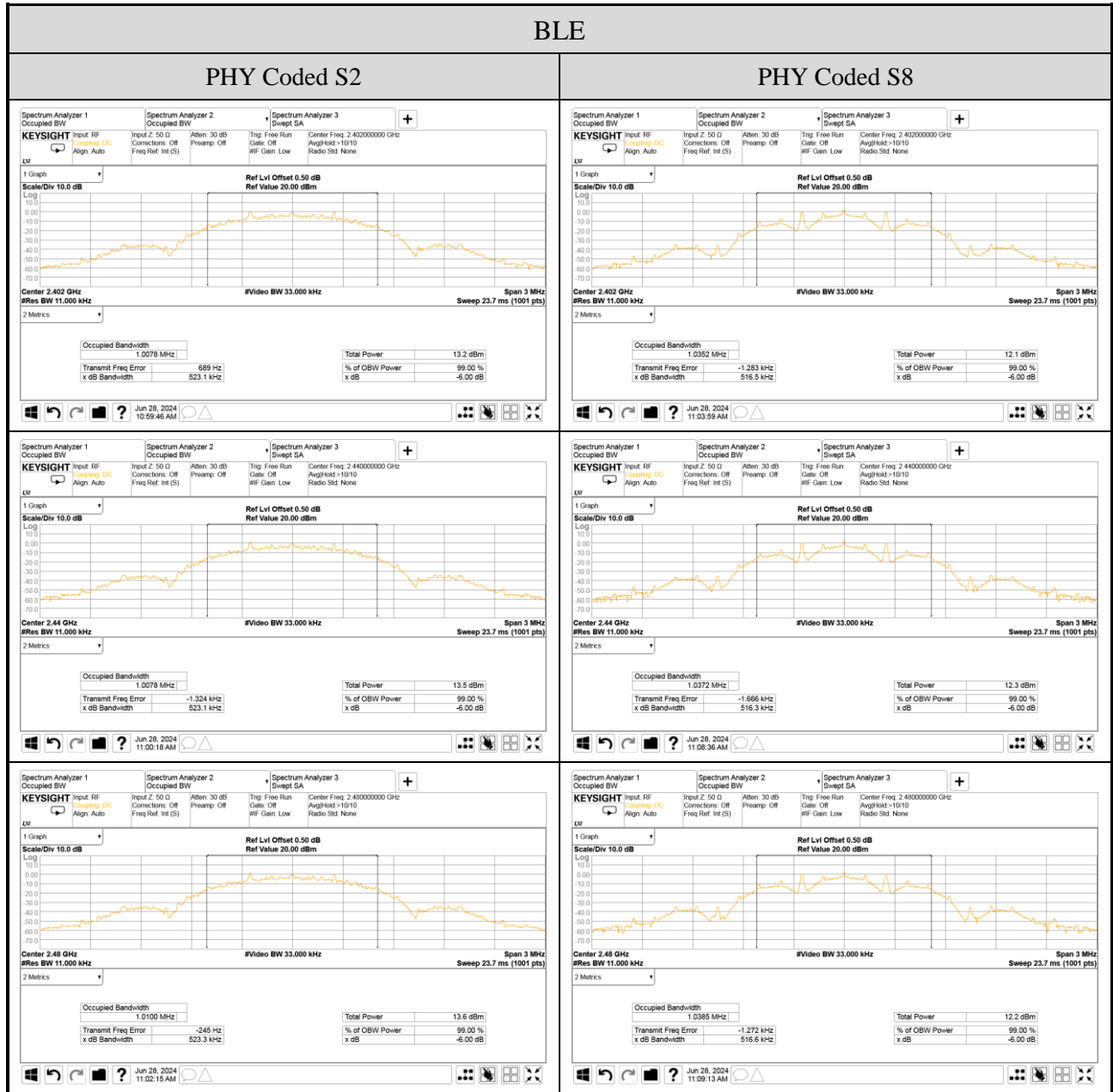
802.11be-EHT20



802.11be-EHT40







A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/06/27 ~ 08/17	Temp./Hum.	24°C/58 ~ 59%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Max Peak Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main		Aux	Main		
802.11b	2412	17.67	21.36	21.36	2.00	2.10	23.46	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	17.72	21.15	21.15	2.00	2.10	23.25	
	2422	18.48	21.20	21.20	2.00	2.10	23.30	
	2427	20.81	21.22	21.22	2.00	2.10	23.32	
	2442	20.62	21.27	21.27	2.00	2.10	23.37	
	2462	20.67	21.15	21.15	2.00	2.10	23.25	
	2467	20.53	21.07	21.07	2.00	2.10	23.17	
	2472	16.87	19.53	19.53	2.00	2.10	21.63	
802.11g	2412	23.70	24.24	24.24	2.00	2.10	26.34	
	2417	23.51	23.78	23.78	2.00	2.10	25.88	
	2442	23.42	23.92	23.92	2.00	2.10	26.02	
	2472	24.50	25.31	25.31	2.00	2.10	27.41	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Peak Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Total Peak Output Power ^{Note 2} (dBm)	Directional Gain ^{Note 3} (dBi)	E.I.R.P. ^{Note 4} (dBm)	Limit
		Aux	Main				
802.11n-HT20	2412	22.20	22.51	25.37	2.05	27.42	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	23.55	23.94	26.76	2.05	28.81	
	2442	24.11	24.14	27.14	2.05	29.19	
	2457	23.60	23.74	26.68	2.05	28.73	
	2462	23.23	23.27	26.26	2.05	28.31	
	2467	17.98	18.11	21.06	2.05	23.11	
	2472	23.43	23.49	26.47	2.05	28.52	
802.11n-HT40	2422	23.32	23.09	26.22	2.05	28.27	
	2427	24.19	23.90	27.06	2.05	29.11	
	2442	24.11	24.00	27.07	2.05	29.12	
	2462	23.77	24.17	26.98	2.05	29.03	
802.11ax-HE20	2412	22.30	22.47	25.40	2.05	27.45	
	2417	23.59	23.84	26.73	2.05	28.78	
	2442	23.93	24.04	27.00	2.05	29.05	
	2472	23.51	23.75	26.64	2.05	28.69	
802.11ax-HE40	2422	23.30	23.32	26.32	2.05	28.37	
	2427	24.20	23.91	27.07	2.05	29.12	
	2442	24.33	24.04	27.20	2.05	29.25	
	2462	24.21	24.33	27.28	2.05	29.33	
802.11be-EHT20	2412	22.18	22.30	25.25	2.05	27.30	
	2417	23.53	23.80	26.68	2.05	28.73	
	2442	24.12	24.05	27.10	2.05	29.15	
	2472	24.37	23.96	27.18	2.05	29.23	
802.11be-EHT40	2422	23.40	23.25	26.34	2.05	28.39	
	2427	24.11	24.14	27.14	2.05	29.19	
	2442	24.07	23.95	27.02	2.05	29.07	
	2462	23.68	23.90	26.80	2.05	28.85	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.0/10})/2] = 2.05\text{dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Peak Output Power (dBm)		Total Peak Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	E.I.R.P>Note 4 (dBm)	Limit
			Aux	Main				
802.11ax-HE20	2412	26/0	22.72	23.46	26.12	2.05	28.17	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	22.73	23.31	26.04	2.05	28.09	
		106/53	23.44	22.72	26.11	2.05	28.16	
	2472	26/8	16.15	16.51	19.34	2.05	21.39	
		52/40	15.69	16.04	18.88	2.05	20.93	
		106/54	18.96	20.73	22.94	2.05	24.99	
802.11ax-HE40	2422	242/61	22.24	22.65	25.46	2.05	27.51	
	2462	242/62	24.45	25.23	27.87	2.05	29.92	
802.11be-EHT20	2412	26/0	23.06	23.65	26.38	2.05	28.43	
		52/37	23.03	23.70	26.39	2.05	28.44	
		106/53	23.08	23.68	26.40	2.05	28.45	
	2472	26/8	14.41	14.68	17.56	2.05	19.61	
		52/40	13.94	14.25	17.11	2.05	19.16	
		106/54	18.96	20.03	22.54	2.05	24.59	
802.11be-EHT40	2422	242/61	22.26	22.54	25.41	2.05	27.46	
	2462	242/62	23.54	23.75	26.66	2.05	28.71	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total peak power = sum to individual output power

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.0/10})/2] = 2.05 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Peak Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Aux		
BLE (1Mbps)	2402	5.37	2.00	7.37	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2440	5.65	2.00	7.65	
	2480	5.76	2.00	7.76	
BLE (2Mbps)	2402	5.38	2.00	7.38	
	2440	5.59	2.00	7.59	
	2480	5.78	2.00	7.78	
BLE (PHY Coded S2)	2402	5.39	2.00	7.39	
	2440	5.60	2.00	7.60	
	2480	5.76	2.00	7.76	
BLE (PHY Coded S8)	2402	5.40	2.00	7.40	
	2440	5.62	2.00	7.62	
	2480	5.76	2.00	7.76	

Note: 1. The results have been included cable loss.
 2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Max Average Output Power (dBm)	Antenna Gain (dBi)		E.I.R.P (dBm) ^{Note 2}	Limit
		Aux	Main			Aux	Main		
802.11b	2412	15.54	19.08	N/A	19.08	2.00	2.10	21.18	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	15.60	18.98		18.98	2.00	2.10	21.08	
	2422	14.37	19.02		19.02	2.00	2.10	21.12	
	2427	18.67	19.04		19.04	2.00	2.10	21.14	
	2442	18.47	19.09		19.09	2.00	2.10	21.19	
	2462	18.50	18.98		18.98	2.00	2.10	21.08	
	2467	18.40	18.90		18.90	2.00	2.10	21.00	
	2472	14.76	17.52		17.52	2.00	2.10	19.62	
802.11g	2412	18.52	19.02	0.101	19.12	2.00	2.10	21.22	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	18.46	18.90		19.00	2.00	2.10	21.10	
	2442	18.39	19.01		19.11	2.00	2.10	21.21	
	2472	12.77	13.71		13.81	2.00	2.10	15.91	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max. of Average Output Power (AUX or Main)(dBm)+ Antenna Gain (dBi).

3. Max Average Output Power (dBm) = Max of each average output power (dBm)+ Duty Cycle Factor (dB) when duty cycle is less than 98%.

Mode	Centre Frequency (MHz)	Average Output Power (dBm)		Duty cycle factor (dB) 10log (1/x)	Total Average Output Power ^{Note 2} (dBm)	Directional Gain ^{Note 3} (dBi)	Average Output Power (E.I.R.P) ^{Note 4} (dBm)	Limit
		Aux	Main					
802.11n-HT20	2412	17.20	17.11	N/A	20.17	2.05	22.22	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2417	18.34	18.76		21.57	2.05	23.62	
	2442	18.73	18.80		21.78	2.05	23.83	
	2457	18.33	18.74		21.55	2.05	23.60	
	2462	18.05	17.98		21.03	2.05	23.08	
	2467	12.79	12.73		15.77	2.05	17.82	
	2472	11.80	11.72		14.77	2.05	16.82	
802.11n-HT40	2422	17.32	17.17	N/A	20.26	2.05	22.31	
	2427	18.03	17.76		20.91	2.05	22.96	
	2442	18.10	17.85		20.99	2.05	23.04	
	2462	12.38	12.16		15.28	2.05	17.33	
802.11ax-HE20	2412	17.11	17.08	N/A	20.11	2.05	22.16	
	2417	18.23	18.65		21.46	2.05	23.51	
	2442	18.66	18.70		21.69	2.05	23.74	
	2472	12.39	12.44		15.43	2.05	17.48	
802.11ax-HE40	2422	17.23	17.08	N/A	20.17	2.05	22.22	
	2427	17.97	17.68		20.84	2.05	22.89	
	2442	18.02	17.77		20.91	2.05	22.96	
	2462	12.36	12.16		15.27	2.05	17.32	
802.11be-EHT20	2412	17.10	17.06	N/A	20.09	2.05	22.14	
	2417	18.23	18.65		21.46	2.05	23.51	
	2442	18.65	18.68		21.68	2.05	23.73	
	2472	11.71	11.67		14.70	2.05	16.75	
802.11be-EHT40	2422	17.22	17.08	N/A	20.16	2.05	22.21	
	2427	17.96	17.69		20.84	2.05	22.89	
	2442	18.01	17.75		20.89	2.05	22.94	
	2462	12.35	12.16		15.27	2.05	17.32	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.0/10})/2] = 2.05 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

Mode	Centre Frequency (MHz)	RU Configuration	Average Output Power (dBm)		Duty cycle factor (dB) 10log	Total Average Output Power Note 2 (dBm)	Directional Gain Note 3 (dBi)	Average Output Power (E.I.R.P.) Note 4	Limit
			Aux	Main					
802.11ax-HE20	2412	26/0	18.27	18.81	N/A	21.56	2.05	23.61	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
		52/37	18.47	19.02	N/A	21.76	2.05	23.81	
		106/53	18.44	19.01	N/A	21.74	2.05	23.79	
	2472	26/8	2.16	2.49	N/A	5.34	2.05	7.39	
		52/40	2.07	2.42	N/A	5.26	2.05	7.31	
		106/54	7.72	8.06	N/A	10.90	2.05	12.95	
802.11ax-HE40	2422	242/61	17.08	17.30	N/A	20.20	2.05	22.25	
	2462	242/62	11.64	11.88	N/A	14.77	2.05	16.82	
802.11be-EHT20	2412	26/0	18.27	18.80	N/A	21.55	2.05	23.60	
		52/37	18.48	19.03	N/A	21.77	2.05	23.82	
		106/53	18.44	18.99	N/A	21.73	2.05	23.78	
	2472	26/8	2.16	2.49	N/A	5.34	2.05	7.39	
		52/40	2.05	2.41	N/A	5.24	2.05	7.29	
		106/54	7.73	8.08	N/A	10.92	2.05	12.97	
802.11be-EHT40	2422	242/61	17.10	17.32	N/A	20.22	2.05	22.27	
	2462	242/62	11.66	11.90	N/A	14.79	2.05	16.84	

Note: 1. The results have been included cable loss.

2. According to KDB 662911 D01 E)1), Total Ave power = sum to individual output power + duty cycle factor (dB), when duty cycle is less than 98%.

3. According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

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

$$\text{Directional gain} = 10 \log[(10^{2.1/10} + 10^{2.0/10})/2] = 2.05 \text{ dBi}$$

The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).

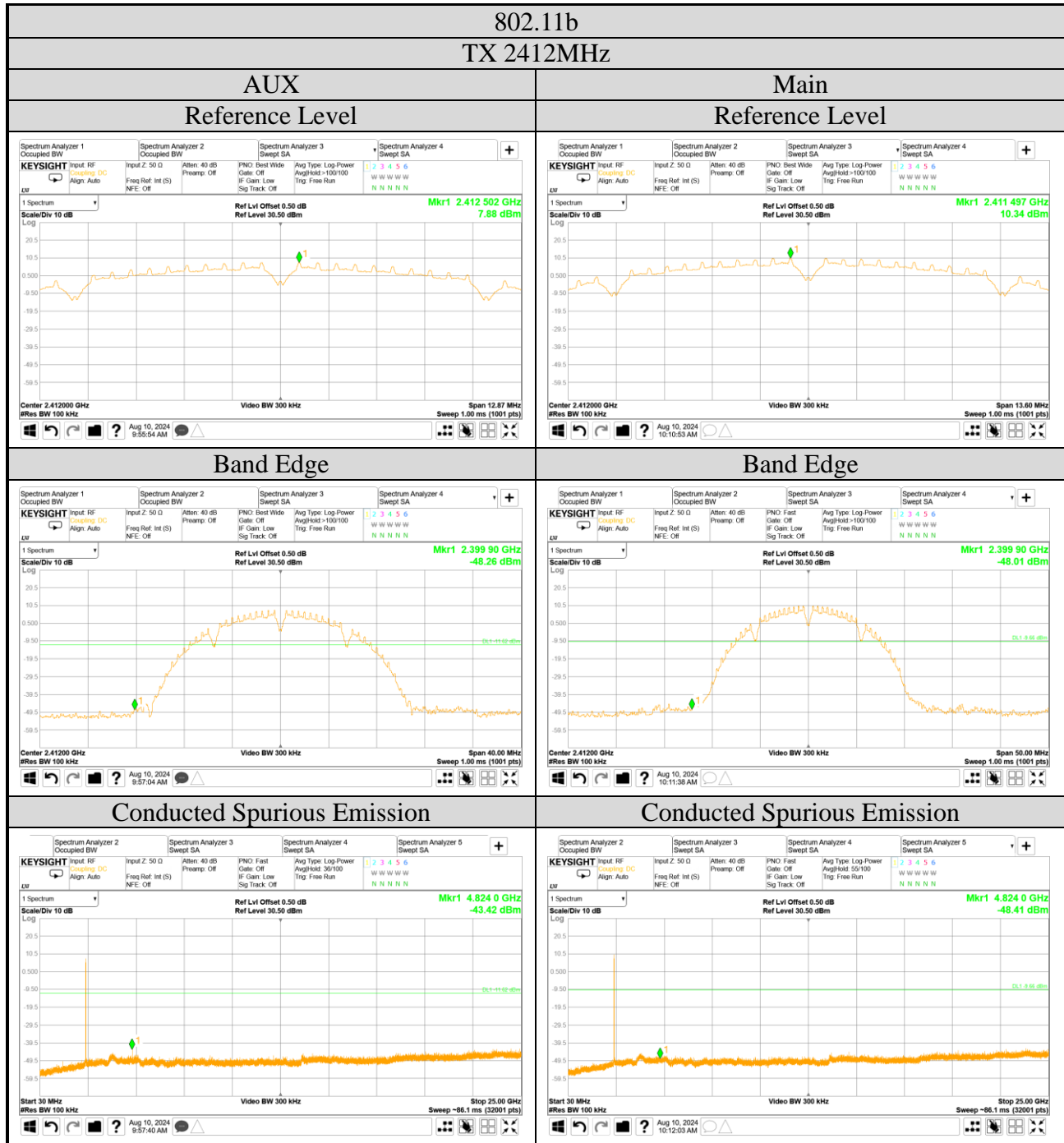
4. E.I.R.P.= The Total Average Output Power (dBm)+ Directional Gain (dBi).

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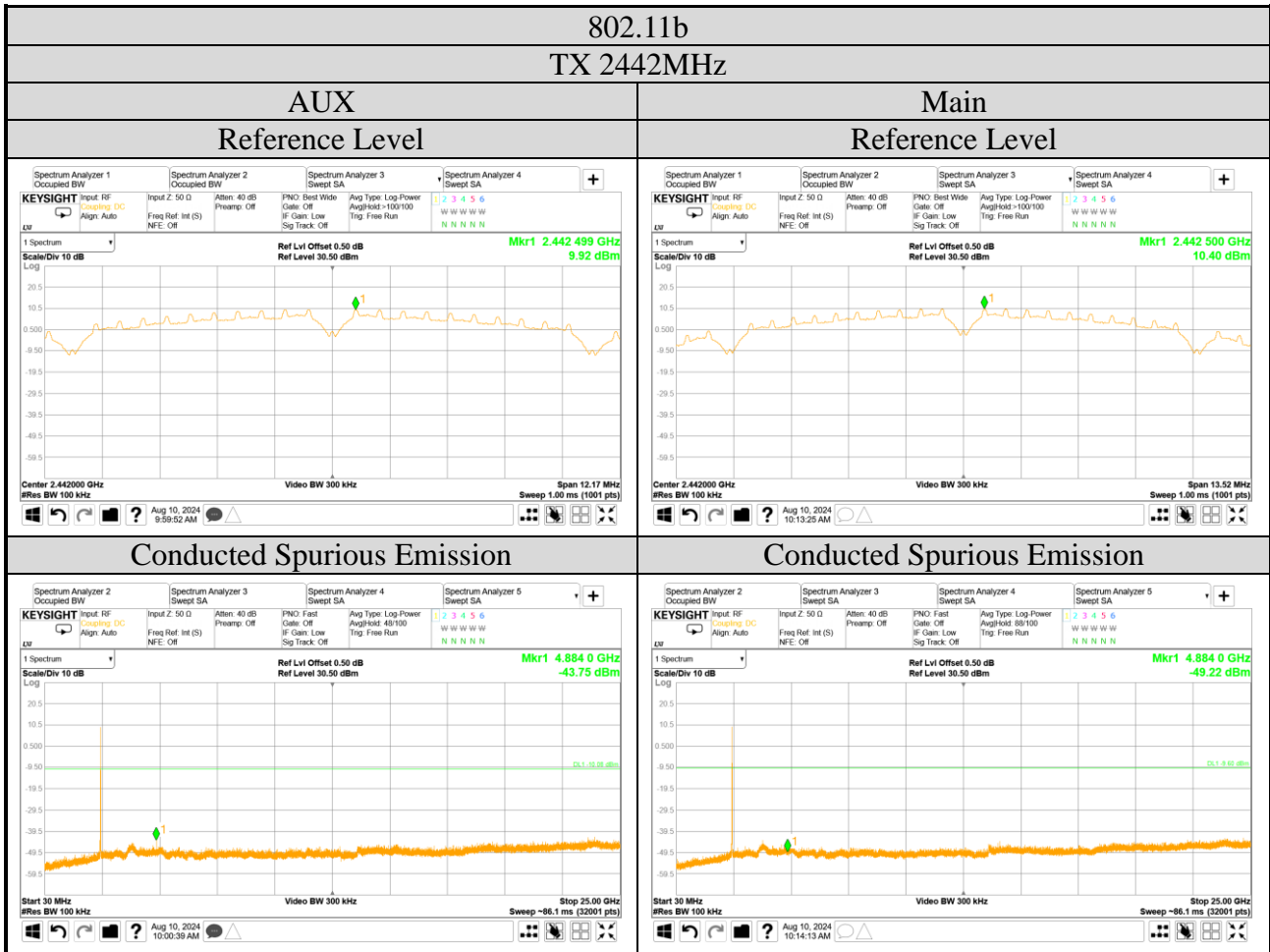
A.5 EMISSION LIMITATIONS

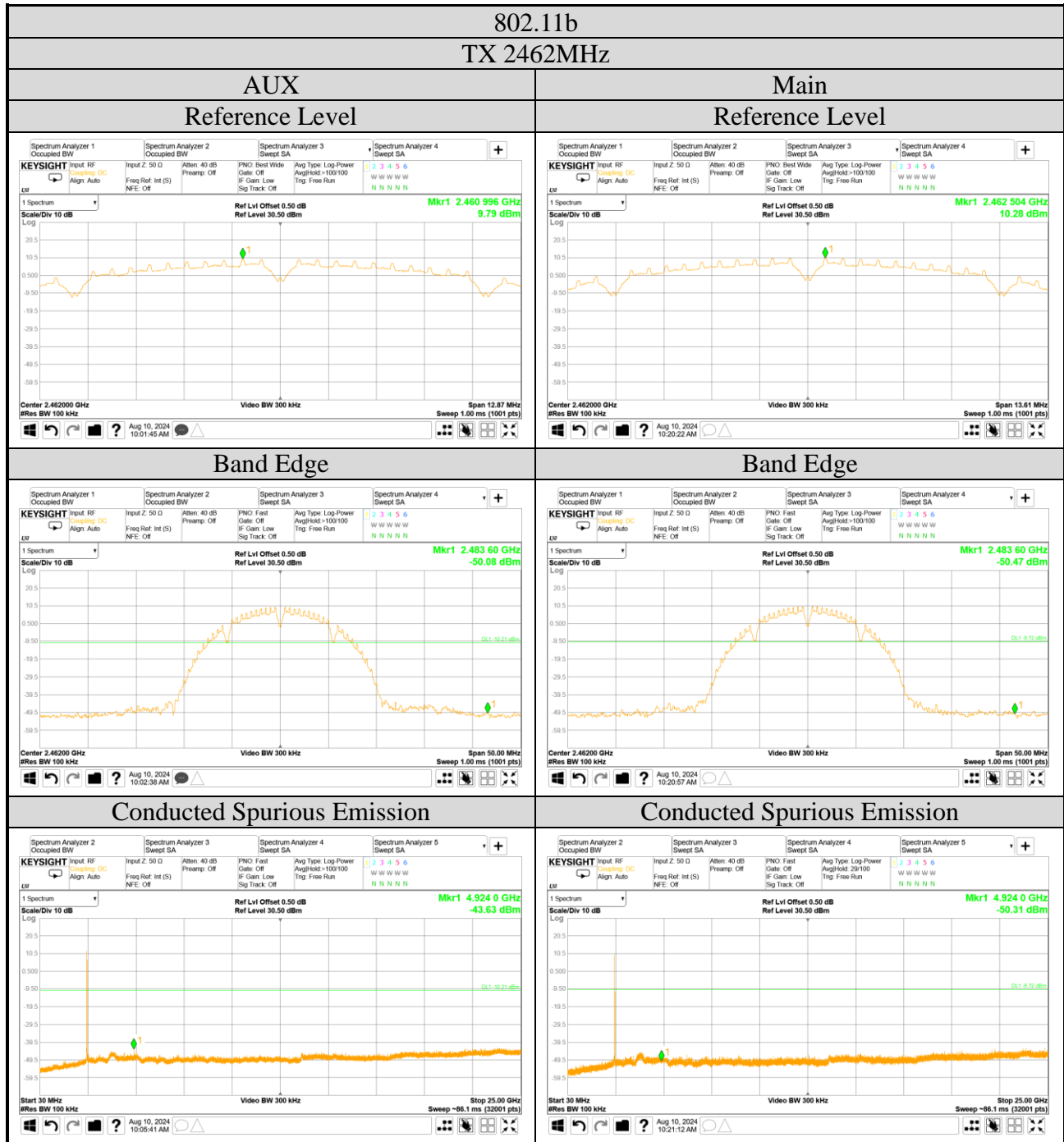
Test Date	2024/06/28 ~ 08/10	Temp./Hum.	24 ~ 26°C/55 ~ 57%
Cable Loss	0.5dB	Tested By	Harry Huang
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

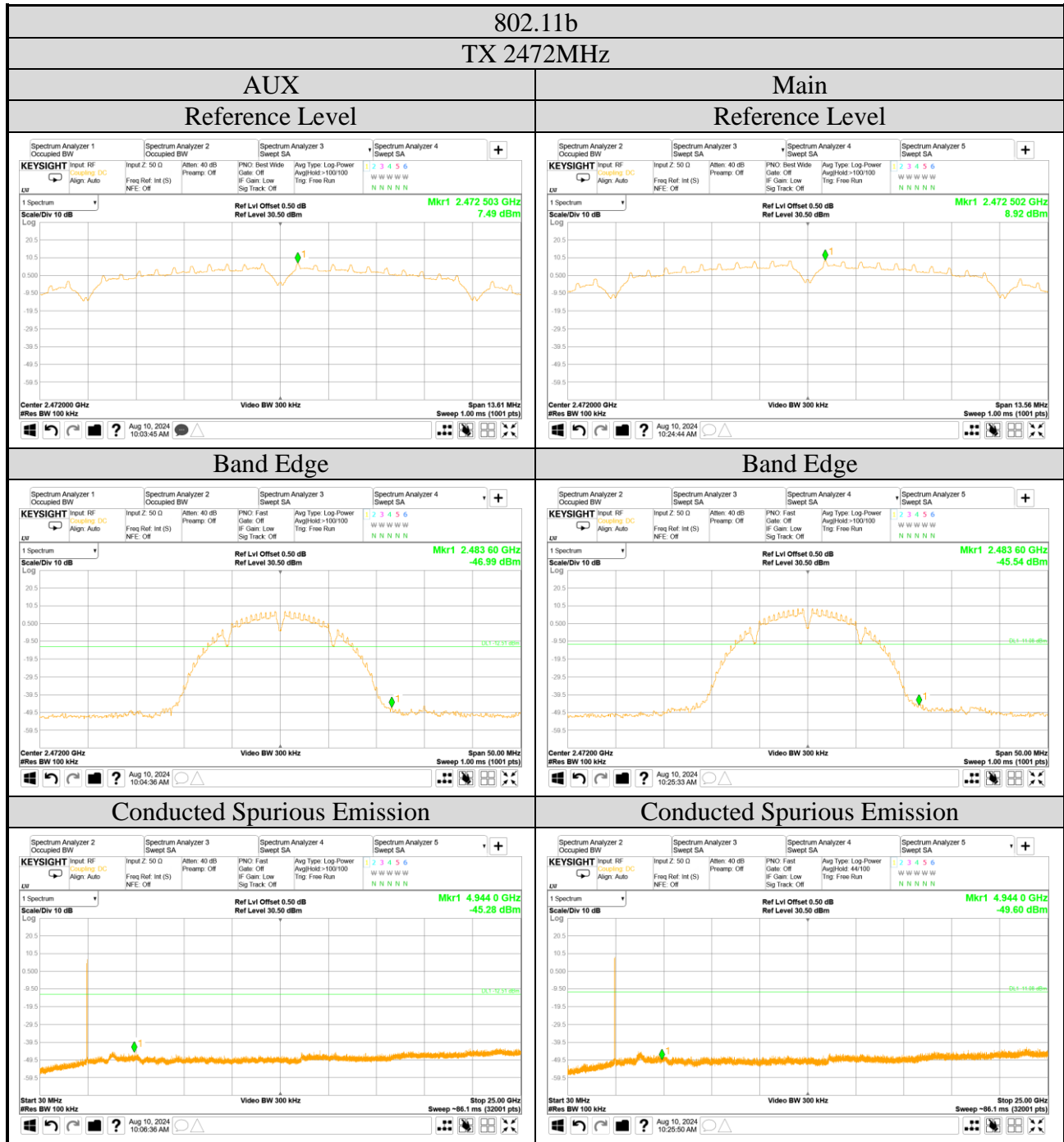


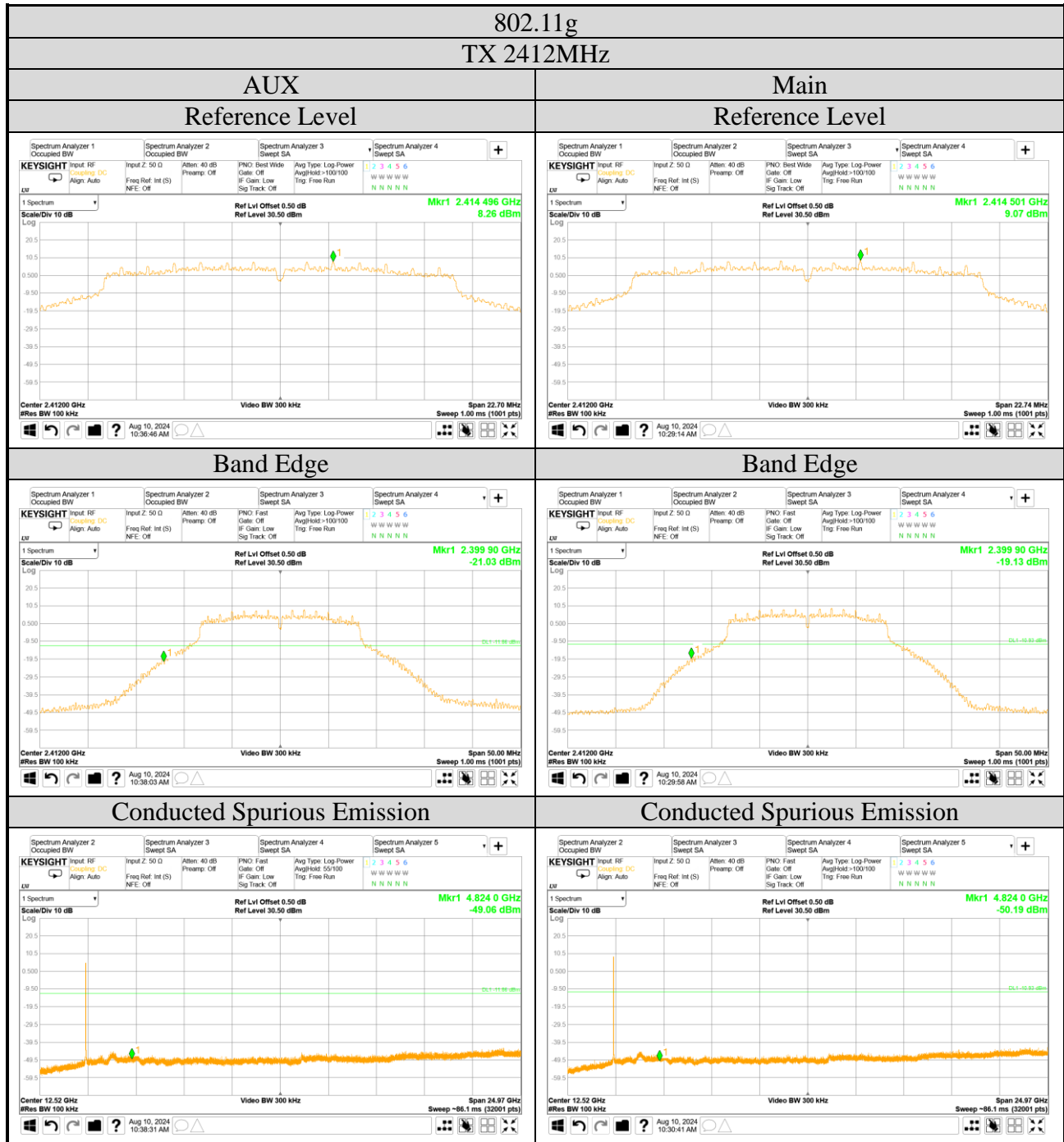
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