

A.3 DTS/OCCUPIED BANDWIDTH

Test Date	2022/02/18 ~ 03/07	Temp./Hum.	14 ~ 20°C/65 ~ 76%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		

A.3.1 Emission Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
802.11b	2412	9.153	13.149	>500kHz
	2442	9.149	13.196	
	2462	9.147	13.169	
	2472	9.104	13.151	
802.11g	2412	16.46	16.700	
	2442	16.46	16.698	
	2462	16.46	16.704	
	2472	16.43	16.765	
802.11n-HT20	2412	17.37	17.440	
	2442	17.37	17.455	
	2462	17.37	17.488	
	2472	17.54	17.499	
802.11n-HT40	2422	33.88	34.757	
	2442	33.88	34.844	
	2452	33.88	34.822	
	2462	33.56	34.912	

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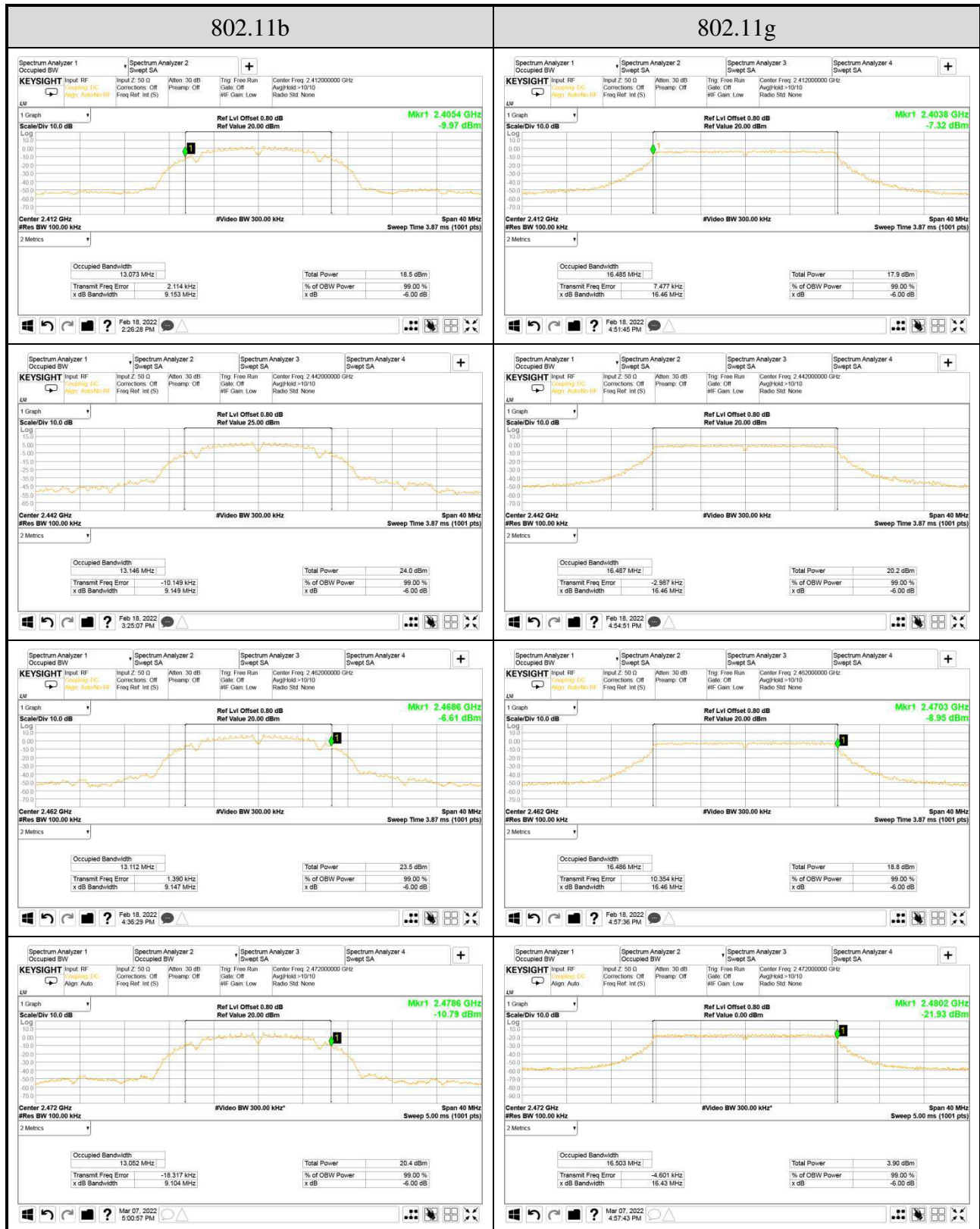
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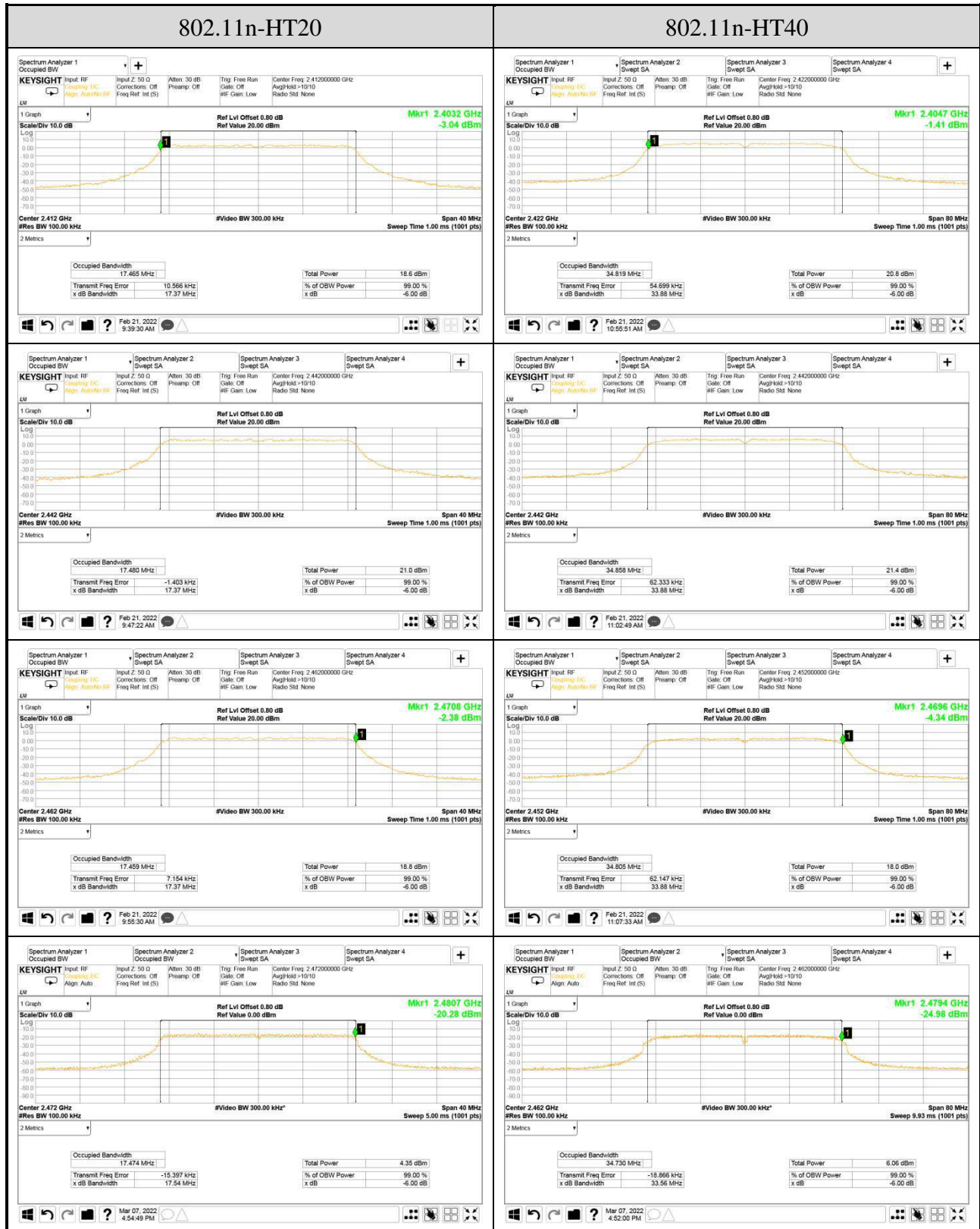
A.3.2 Measurement Plots

● DTS (6dB) Bandwidth



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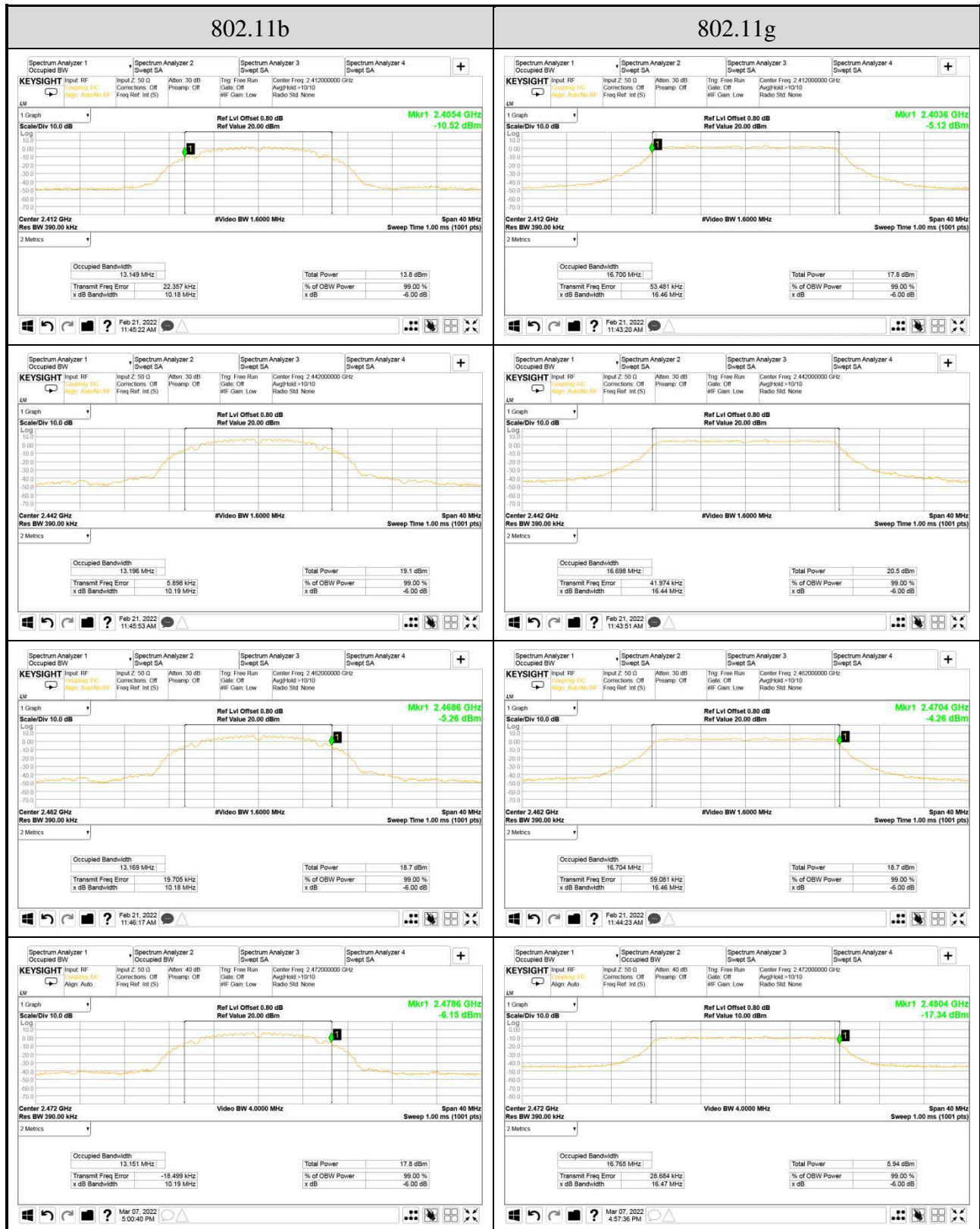
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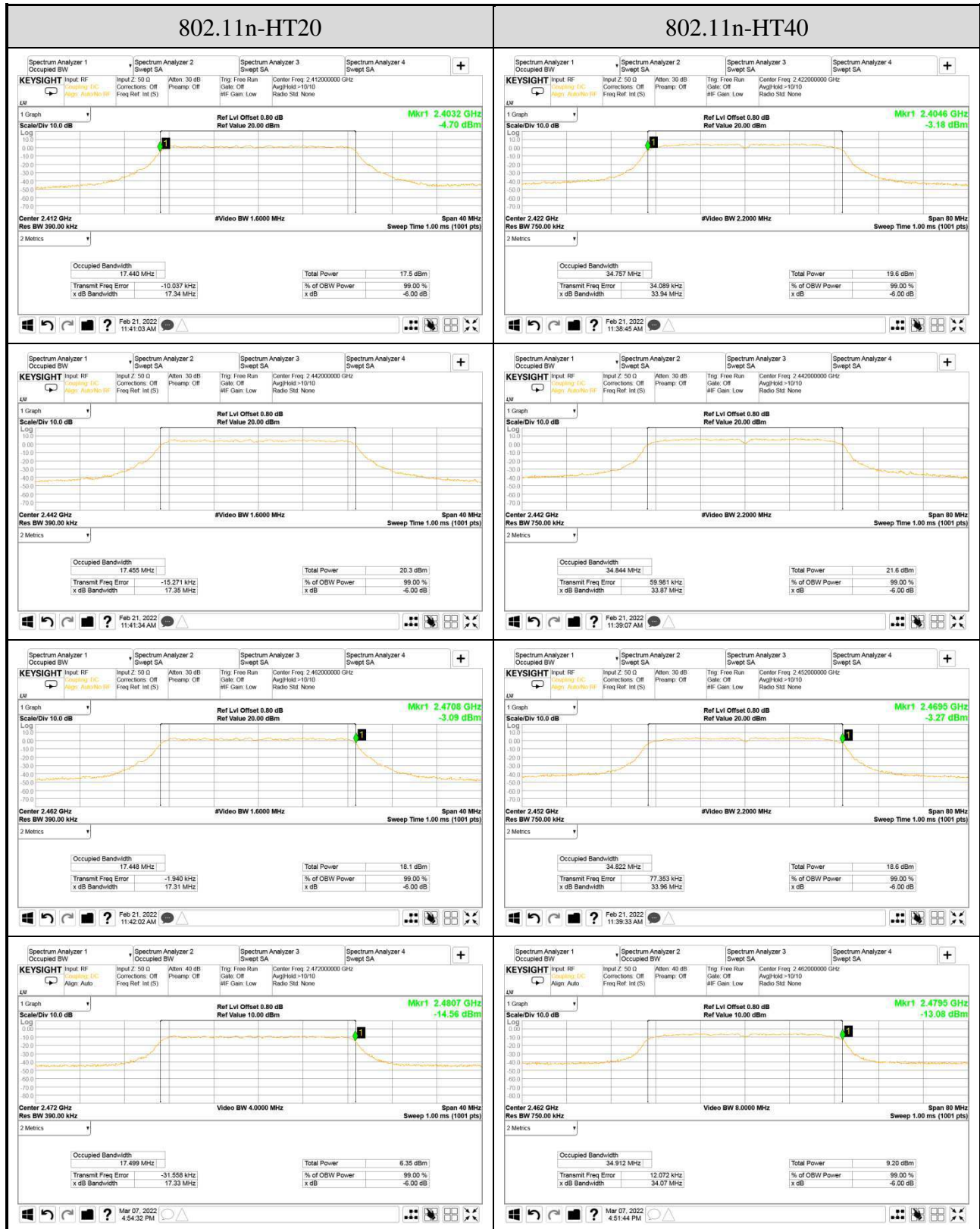
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● Occupied (99%) Bandwidth



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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	15.03	0.032	2.0	17.03	0.050	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	19.53	0.090		21.53	0.142	
	2442	19.57	0.091		21.57	0.144	
	2462	19.32	0.086		21.32	0.136	
	2467	19.13	0.082		21.13	0.130	
	2472	17.32	0.054		19.32	0.086	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11g	2412	17.85	0.061	2.0	19.85	0.097	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.4	0.110		22.40	0.174	
	2442	20.48	0.112		22.48	0.177	
	2457	20.38	0.109		22.38	0.173	
	2462	18.74	0.075		20.74	0.119	
	2467	18.63	0.073		20.63	0.116	
	2472	5.28	0.003		7.28	0.005	

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Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	18.26	0.067	2.0	20.26	0.106	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	20.91	0.123		22.91	0.195	
	2442	20.96	0.125		22.96	0.198	
	2457	20.90	0.123		22.90	0.195	
	2462	19.11	0.081		21.11	0.129	
	2467	19.08	0.081		21.08	0.128	
	2472	5.59	0.004		7.59	0.006	

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	20.04	0.101	2.0	22.04	0.160	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	21.25	0.133		23.25	0.211	
	2442	21.32	0.136		23.32	0.215	
	2447	21.26	0.134		23.26	0.212	
	2452	19.04	0.080		21.04	0.127	
	2457	18.46	0.070		20.46	0.111	
	2462	6.72	0.005		8.72	0.007	

Note: The results have been included cable loss.

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A.4.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11b	2412	11.93	0	11.93	0.016	2.0	13.93	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	16.78		16.78	0.048		18.78	0.076	
	2442	16.79		16.79	0.048		18.79	0.076	
	2462	16.42		16.42	0.044		18.42	0.070	
	2467	16.34		16.34	0.043		18.34	0.068	
	2472	14.41		14.41	0.028		16.41	0.044	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11g	2412	12.05	0	12.05	0.016	2.0	14.05	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.03		15.03	0.032		17.03	0.050	
	2442	15.04		15.04	0.032		17.04	0.051	
	2457	14.99		14.99	0.032		16.99	0.050	
	2462	13.06		13.06	0.020		15.06	0.032	
	2467	13.03		13.03	0.020		15.03	0.032	
	2472	-0.74		-0.74	0.001		1.26	0.001	

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Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11n-HT20	2412	12.06	0	12.06	0.016	2.0	14.06	0.025	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2417	15.02		15.02	0.032		17.02	0.050	
	2442	15.05		15.05	0.032		17.05	0.051	
	2457	15.00		15.00	0.032		17.00	0.050	
	2462	13.01		13.01	0.020		15.01	0.032	
	2467	12.96		12.96	0.020		14.96	0.031	
	2472	-0.93		-0.93	0.001		1.07	0.001	

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	10log (1/X)	Max. Average Output Power		Antenna Gain (dBi)	Average Output Power (E.I.R.P.)		Limit
				(dBm)	(W)		(dBm)	(W)	
802.11n-HT40	2422	14.06	0	14.06	0.025	2.0	16.06	0.040	<30dBm (1W) (Maximum Peak Output Power) <36dBm (4W) (E.I.R.P)
	2427	15.57		15.57	0.036		17.57	0.057	
	2442	15.75		15.75	0.038		17.75	0.060	
	2447	15.58		15.58	0.036		17.58	0.057	
	2452	13.01		13.01	0.020		15.01	0.032	
	2457	12.46		12.46	0.018		14.46	0.028	
	2462	0.44		0.44	0.001		2.44	0.002	

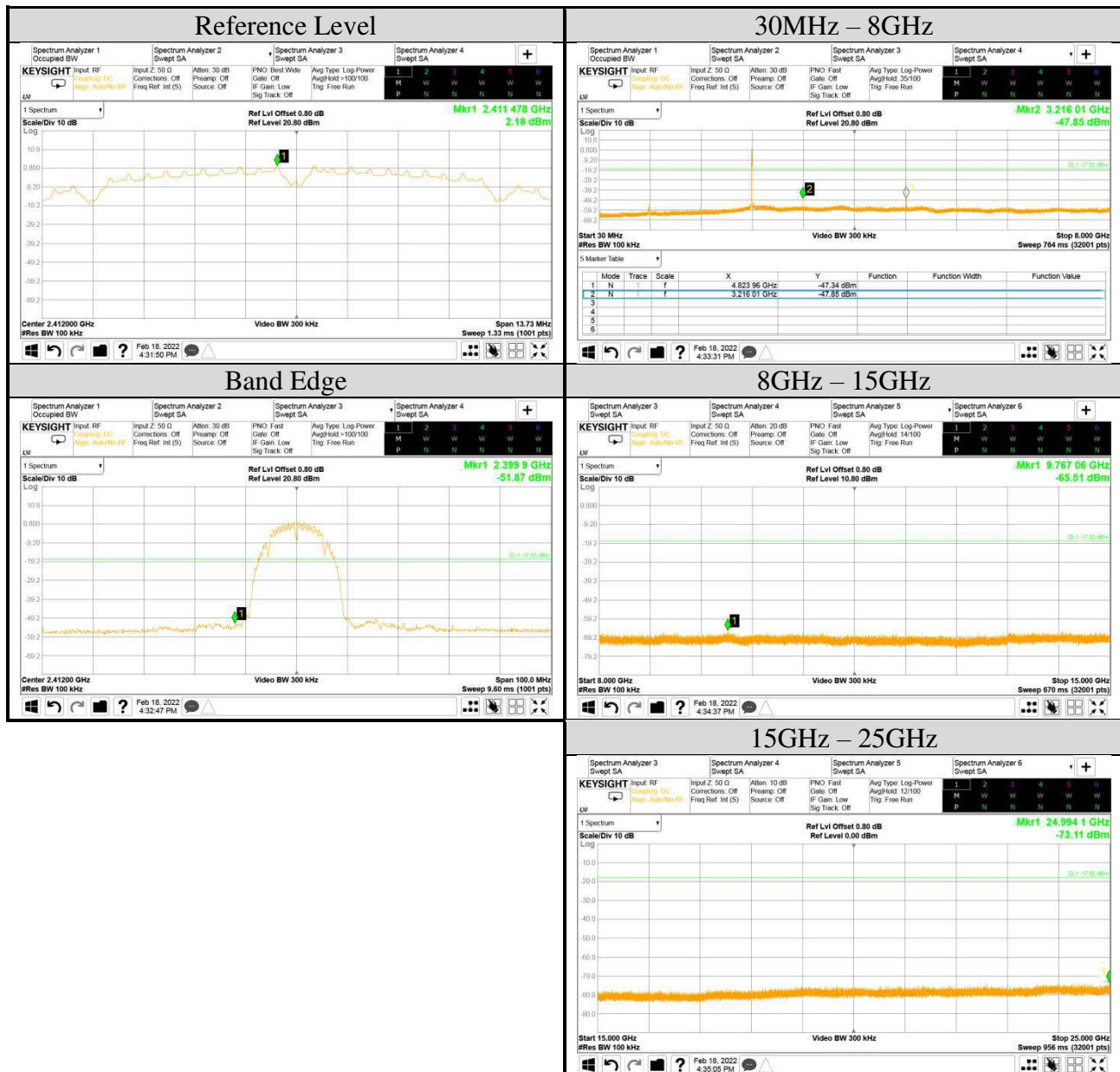
Note: The results have been included cable loss.

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A.5 EMISSION LIMITATIONS

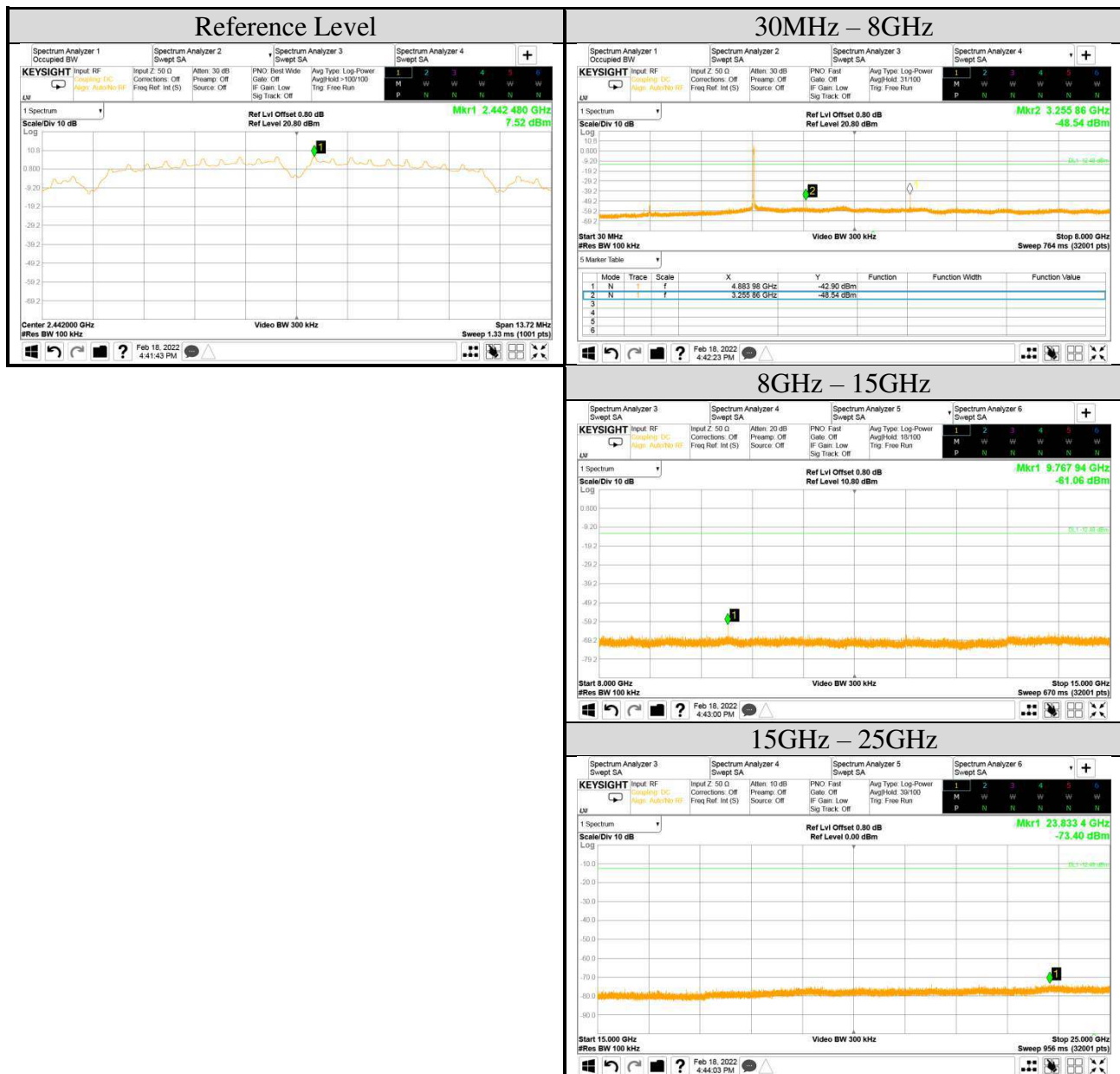
Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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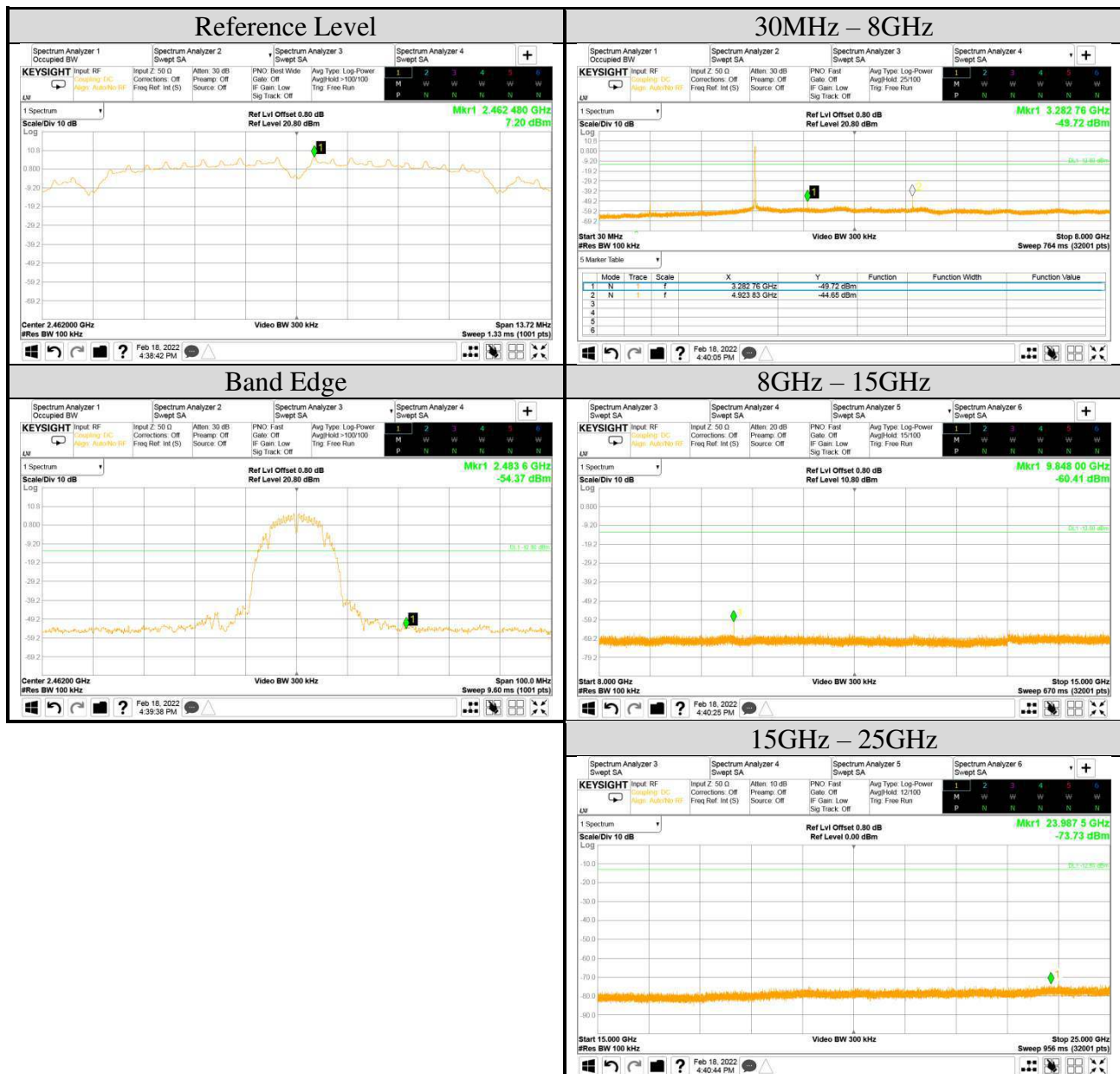
Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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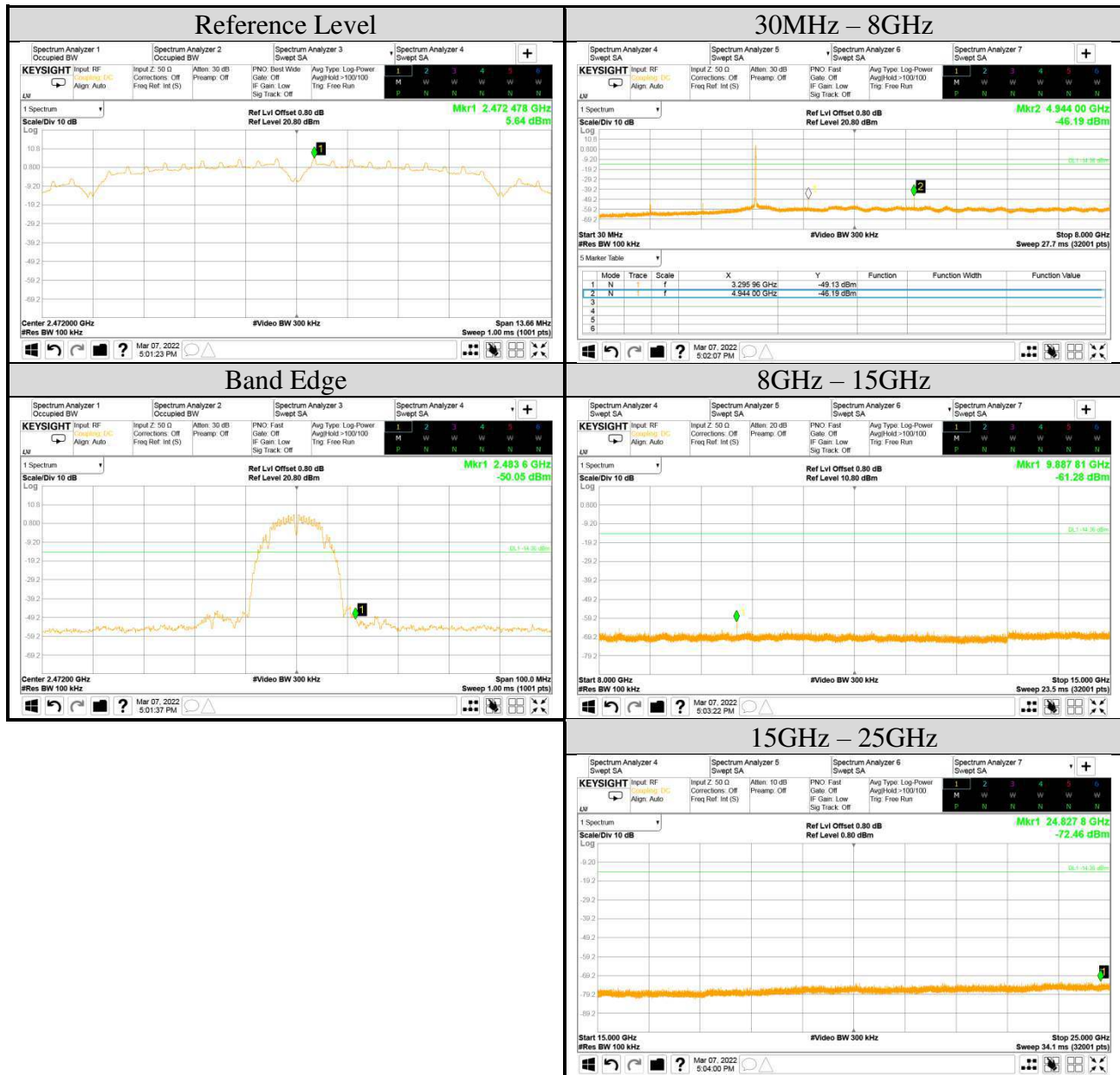
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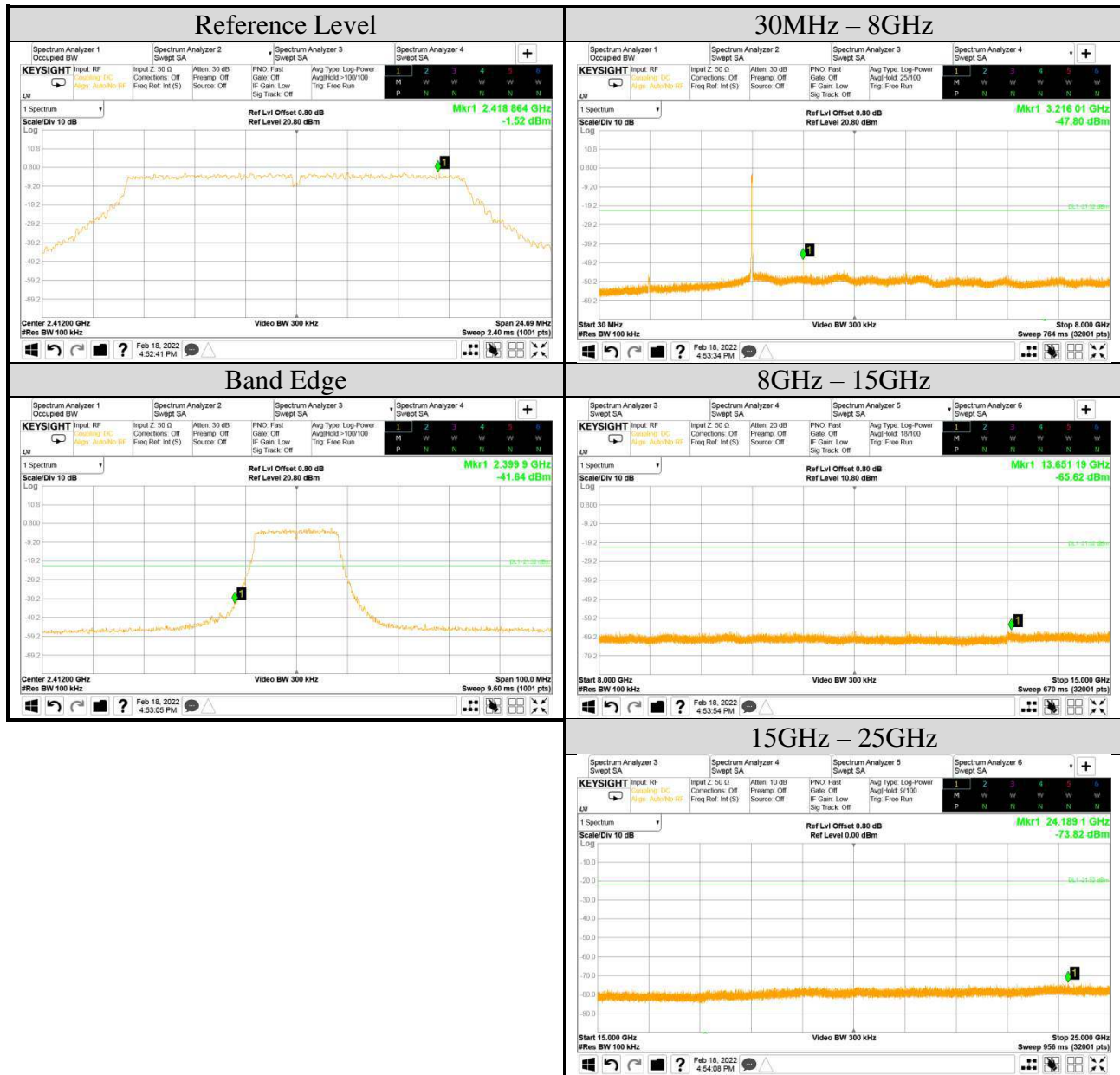
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Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11b	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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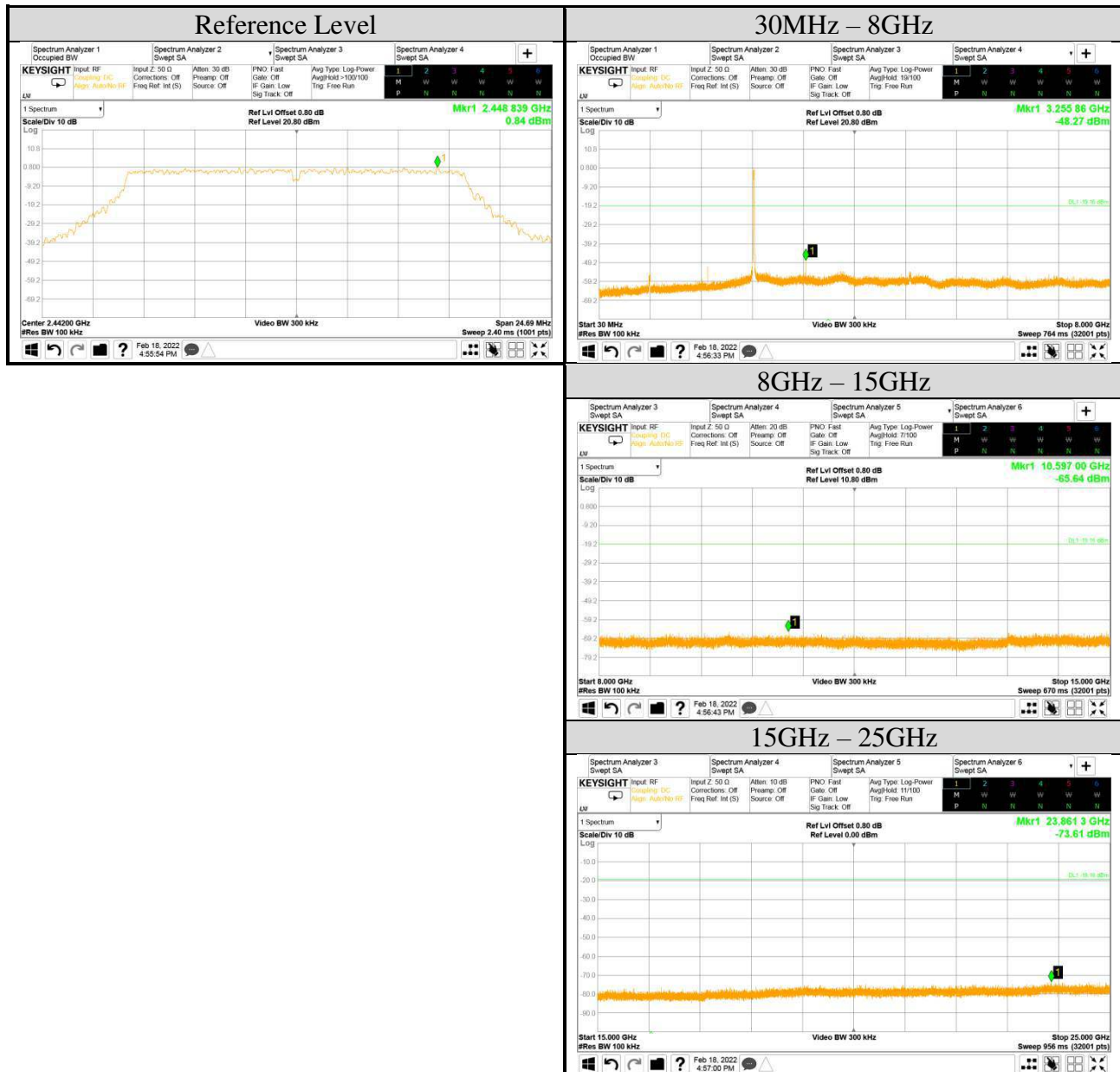
Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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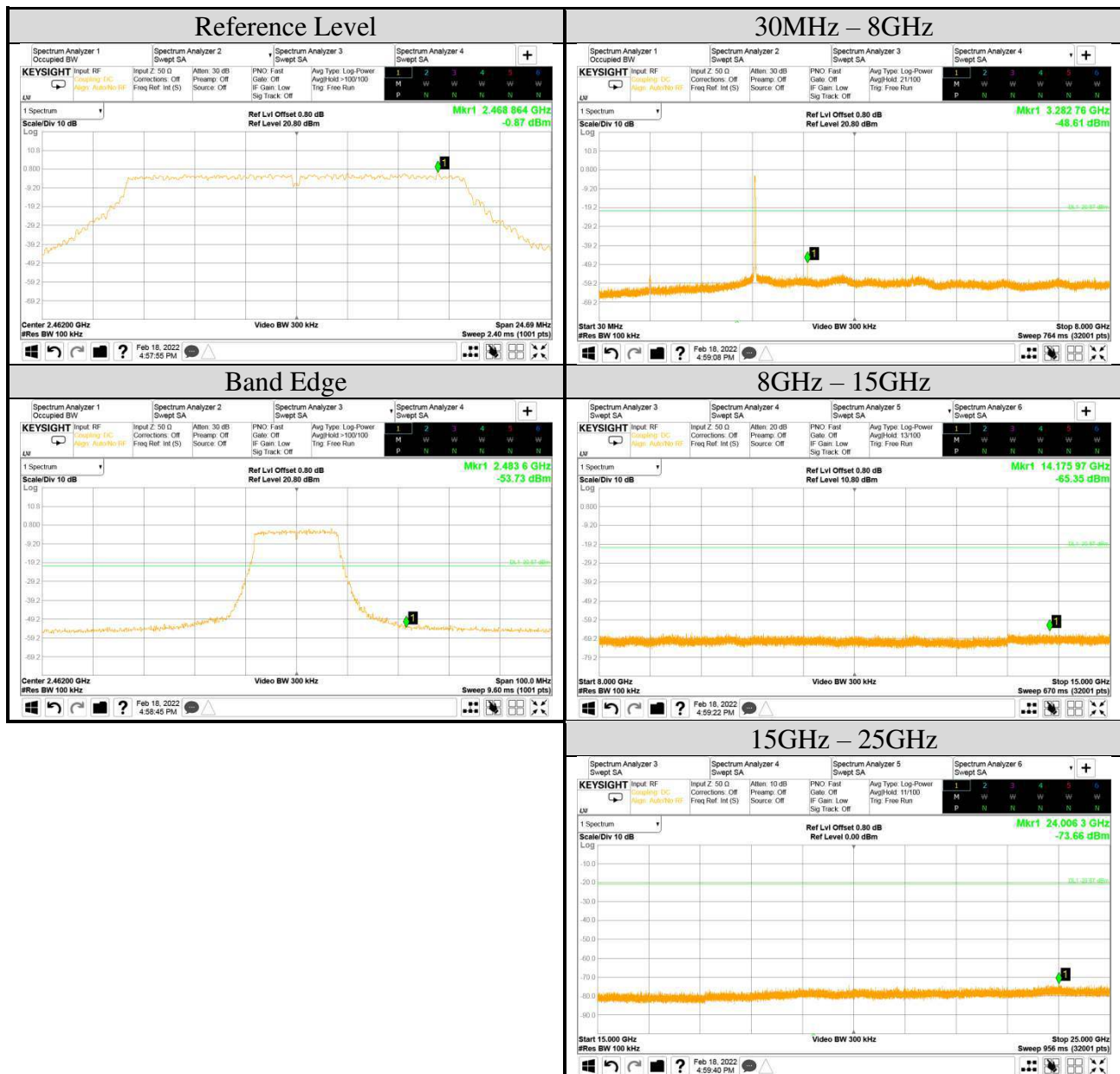
Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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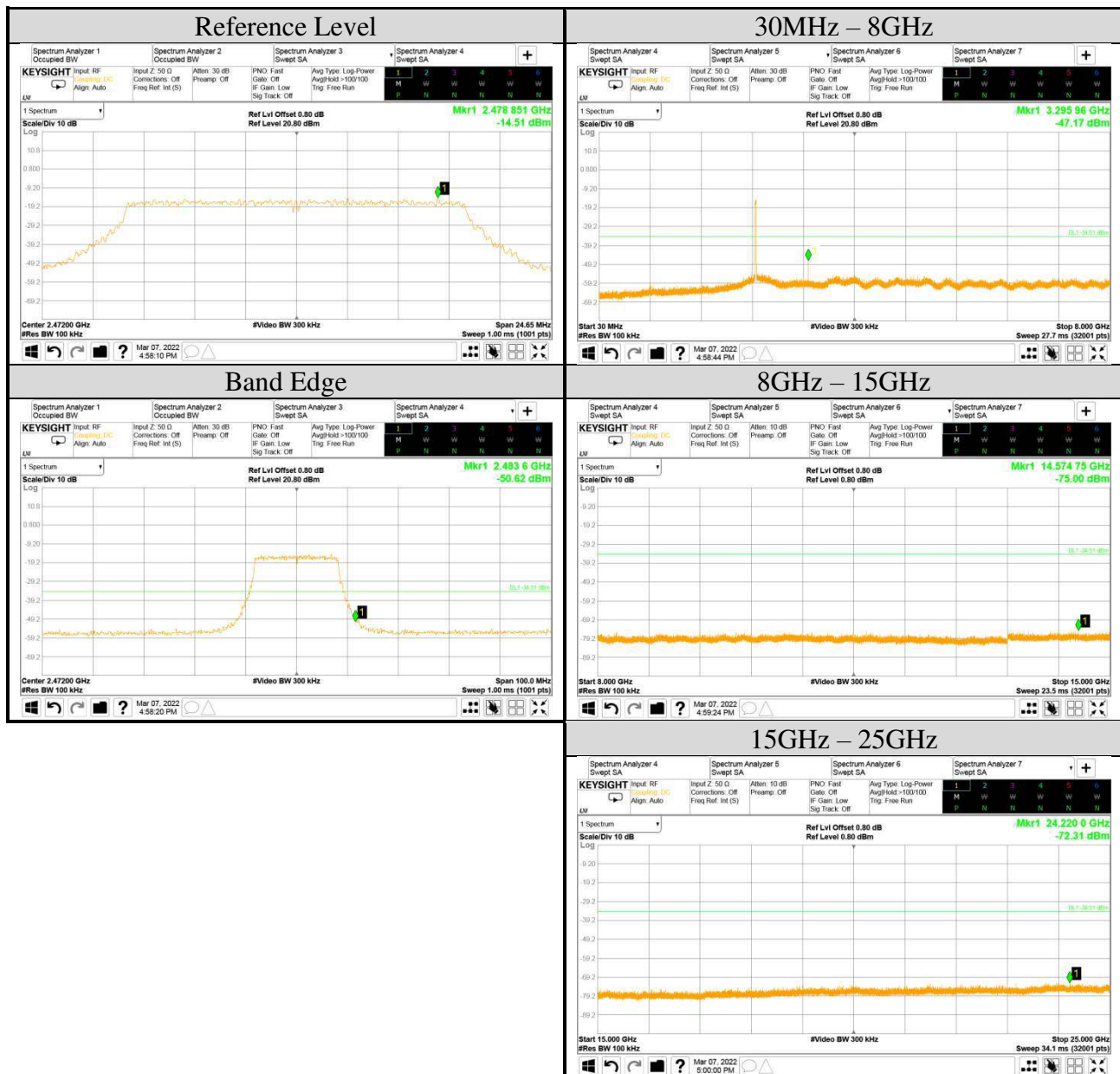
Test Date	2022/02/18	Temp./Hum.	17°C/76%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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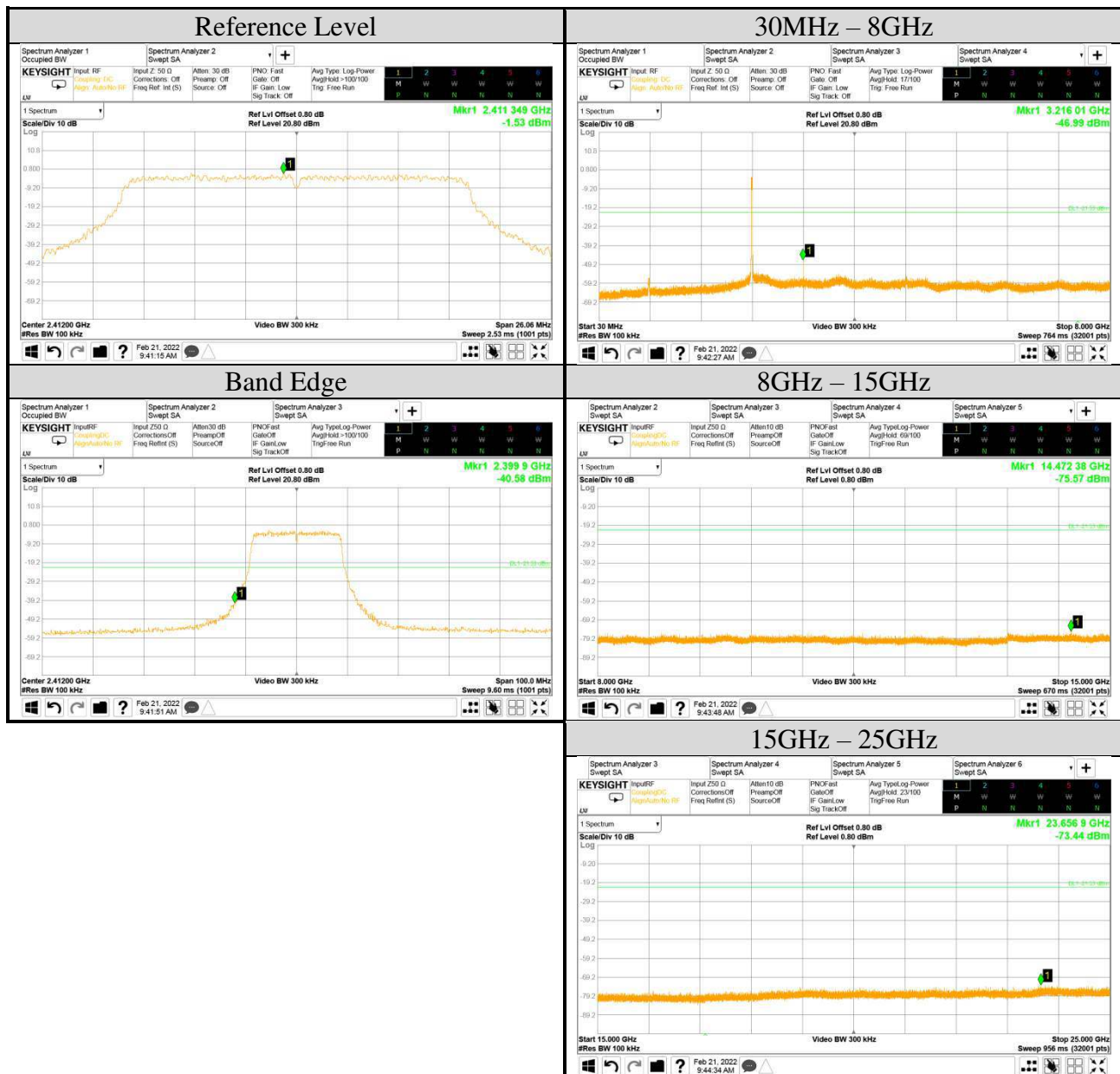
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Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11g	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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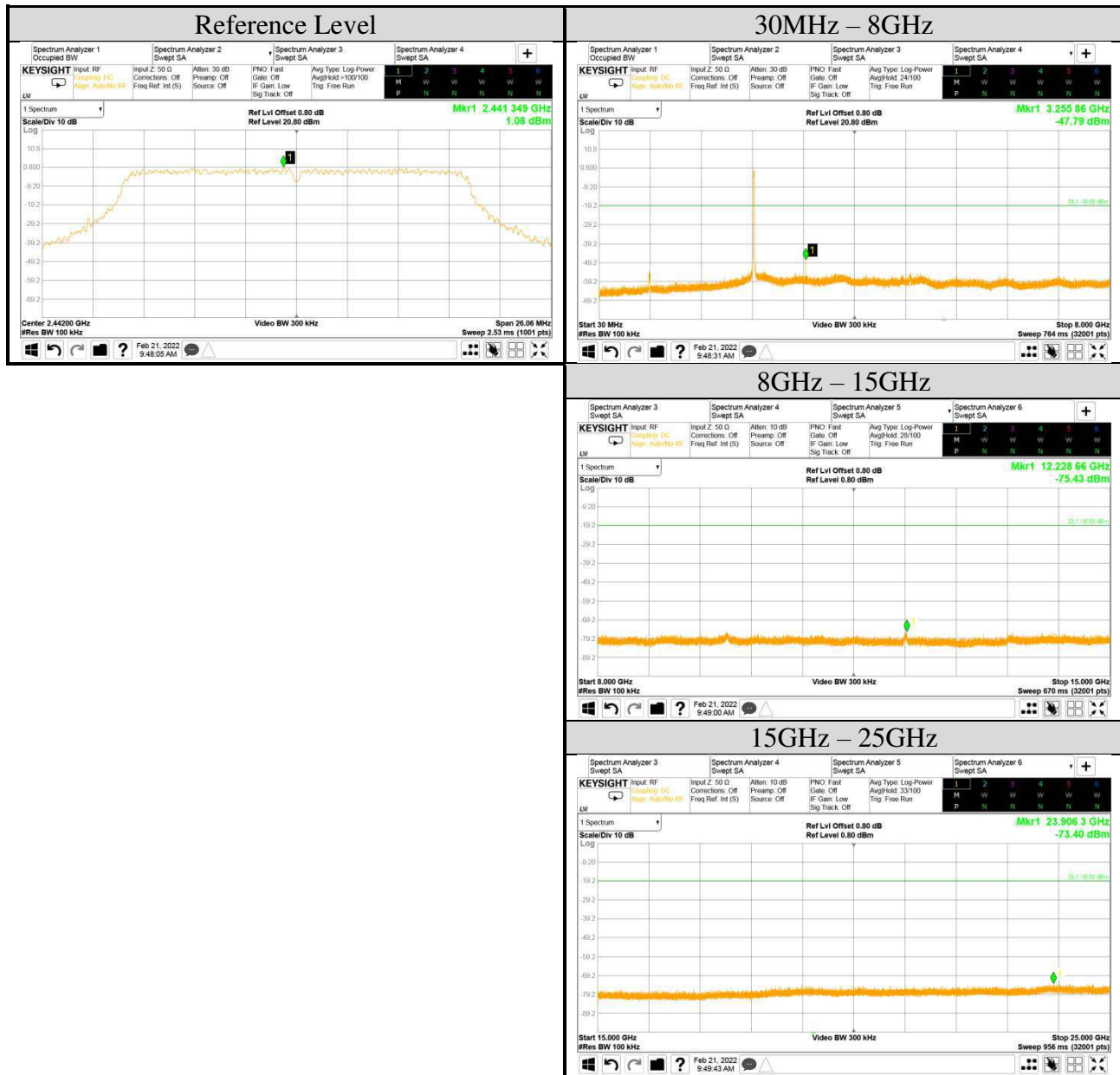
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Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2412MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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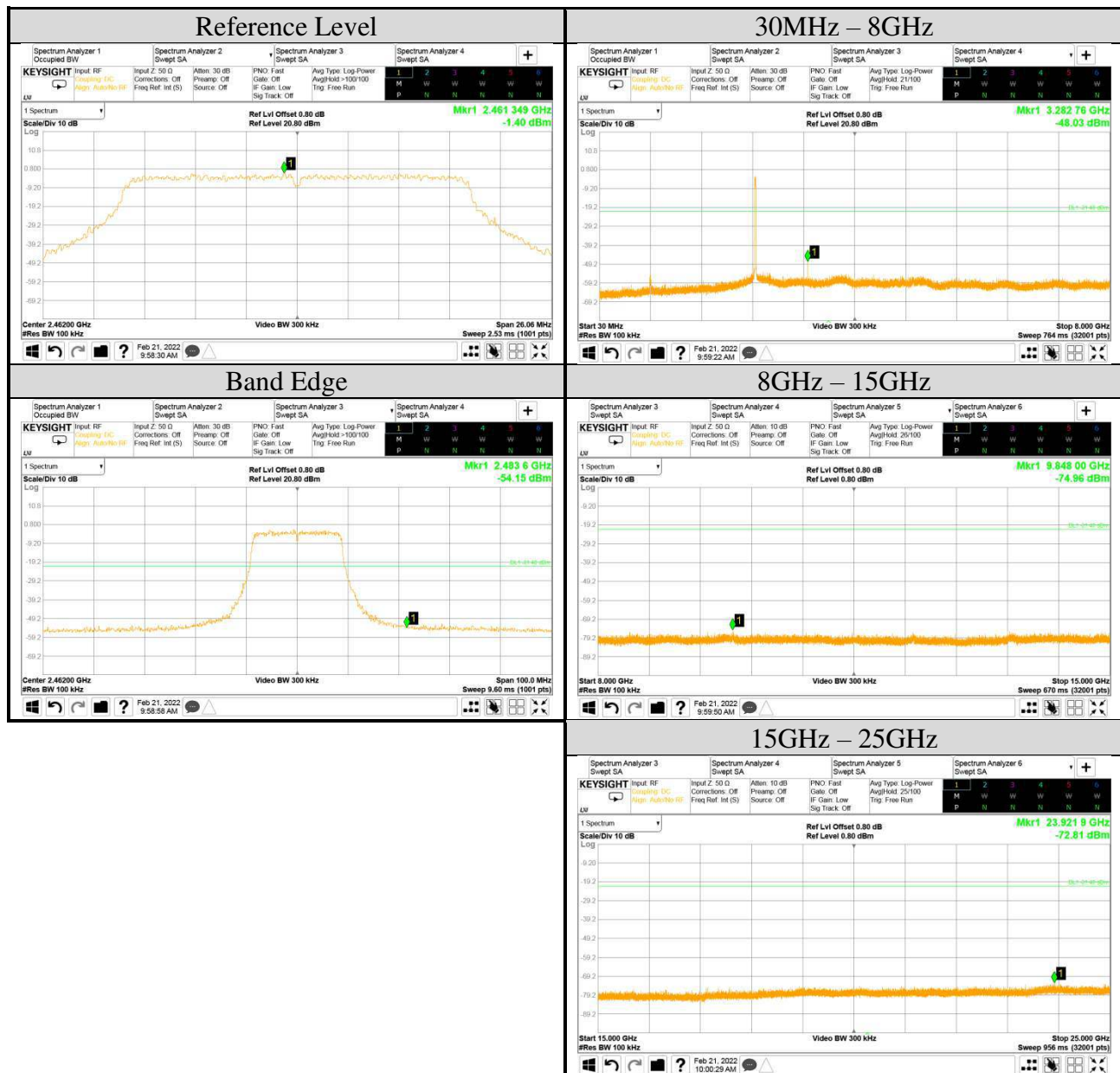
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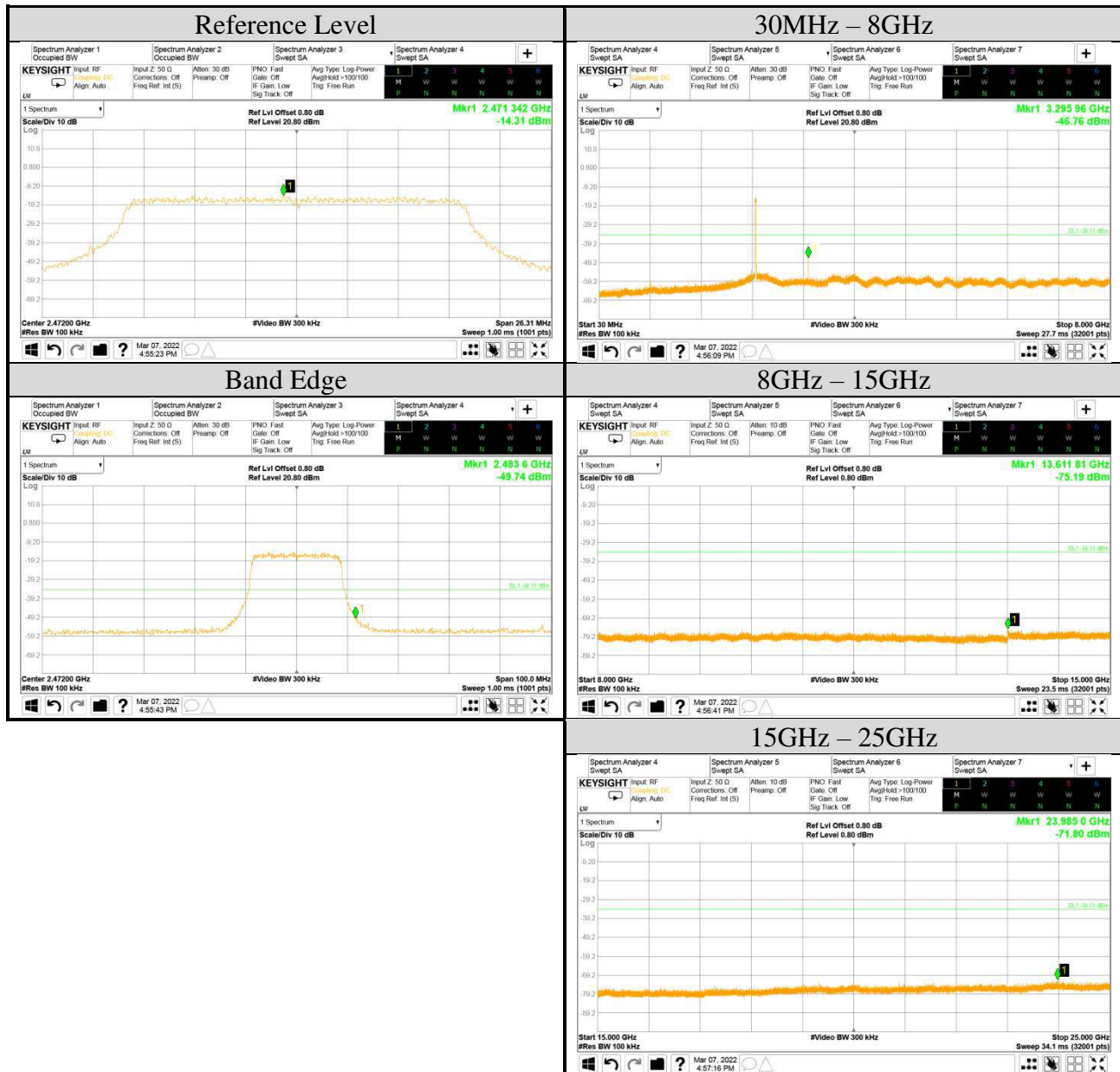
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Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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Test Date	2022/03/07	Temp./Hum.	20°C/65%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT20	Tested By	Martin Chen
Frequency	TX 2472MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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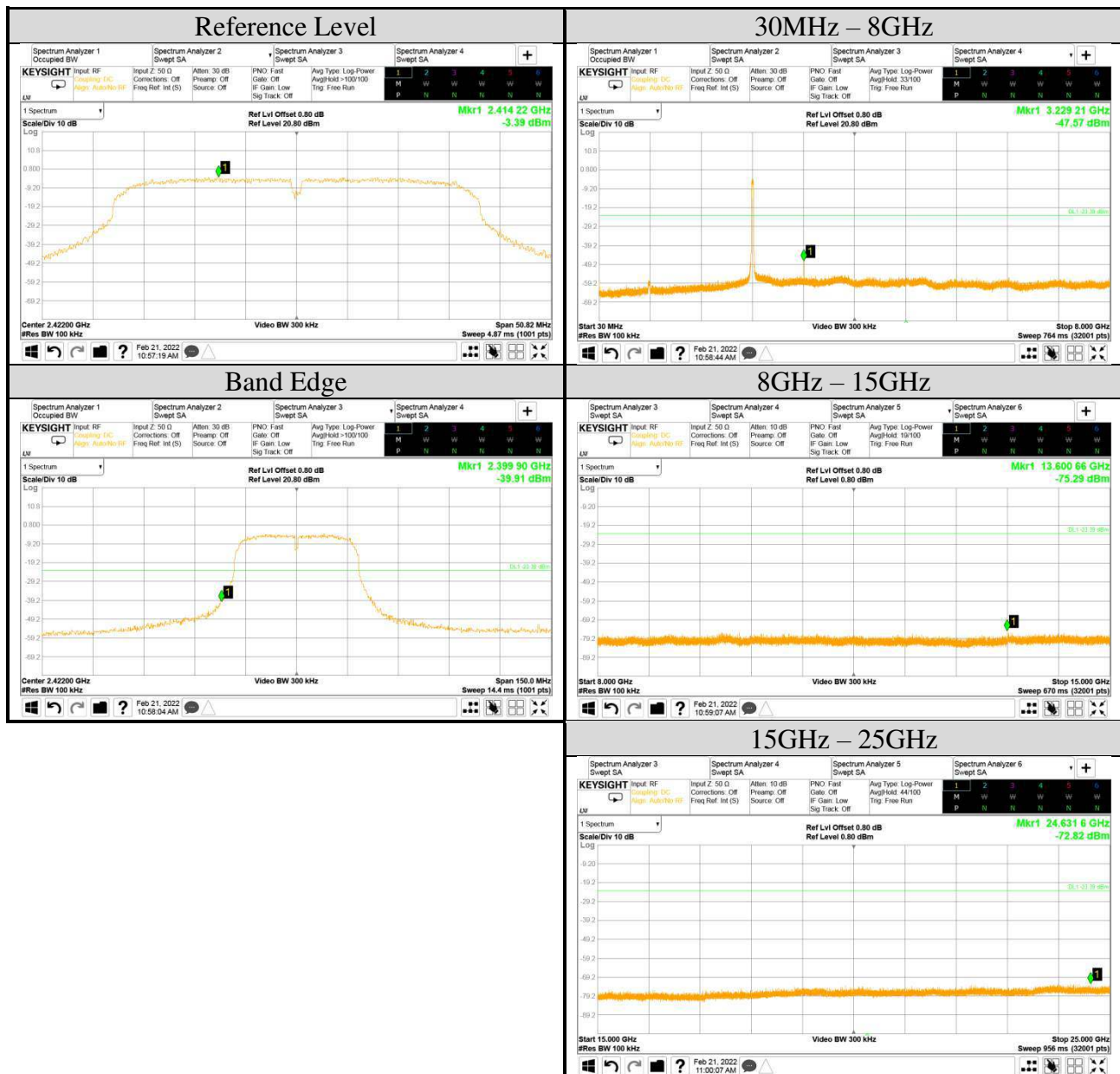
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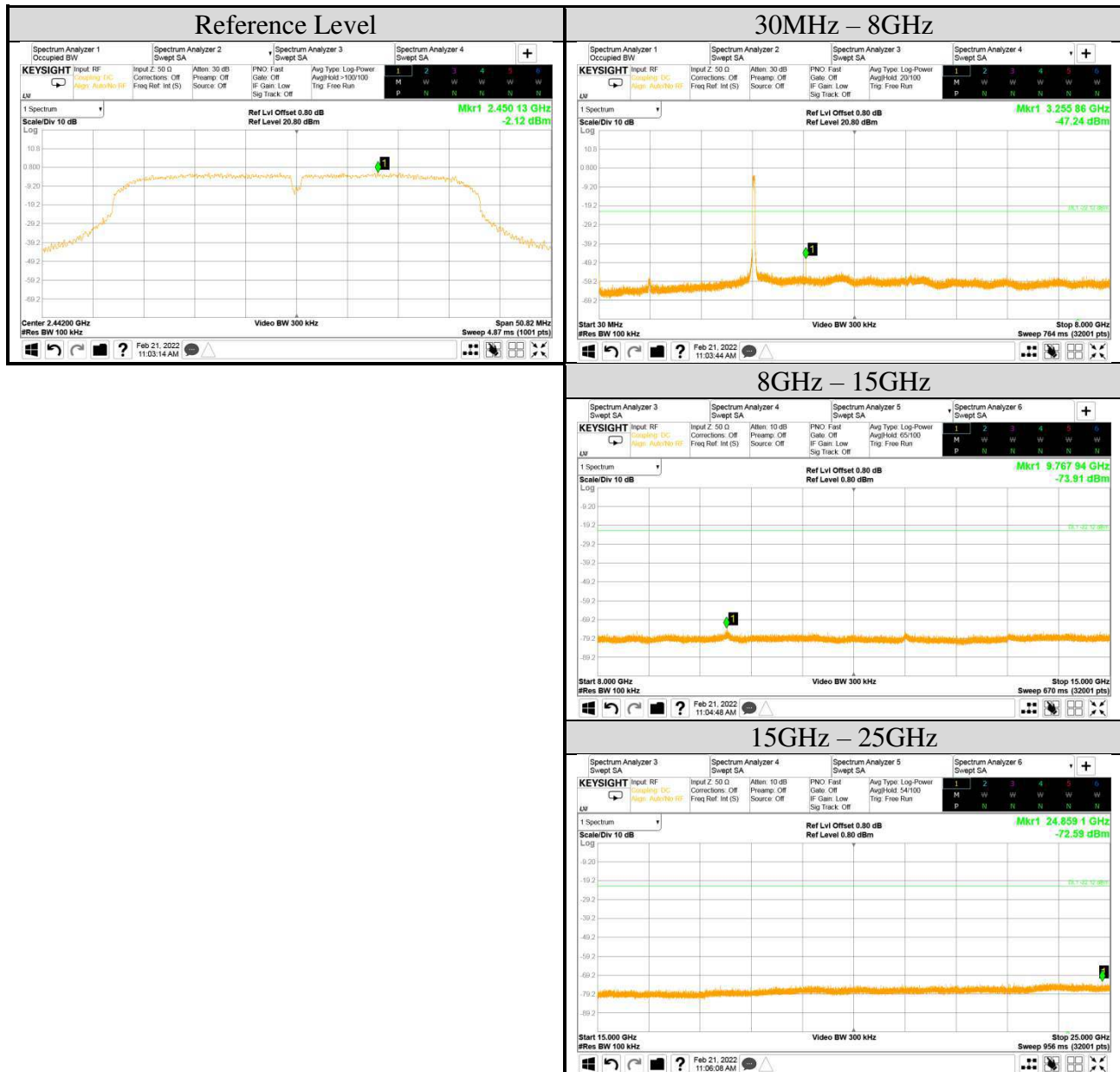
Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2422MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2442MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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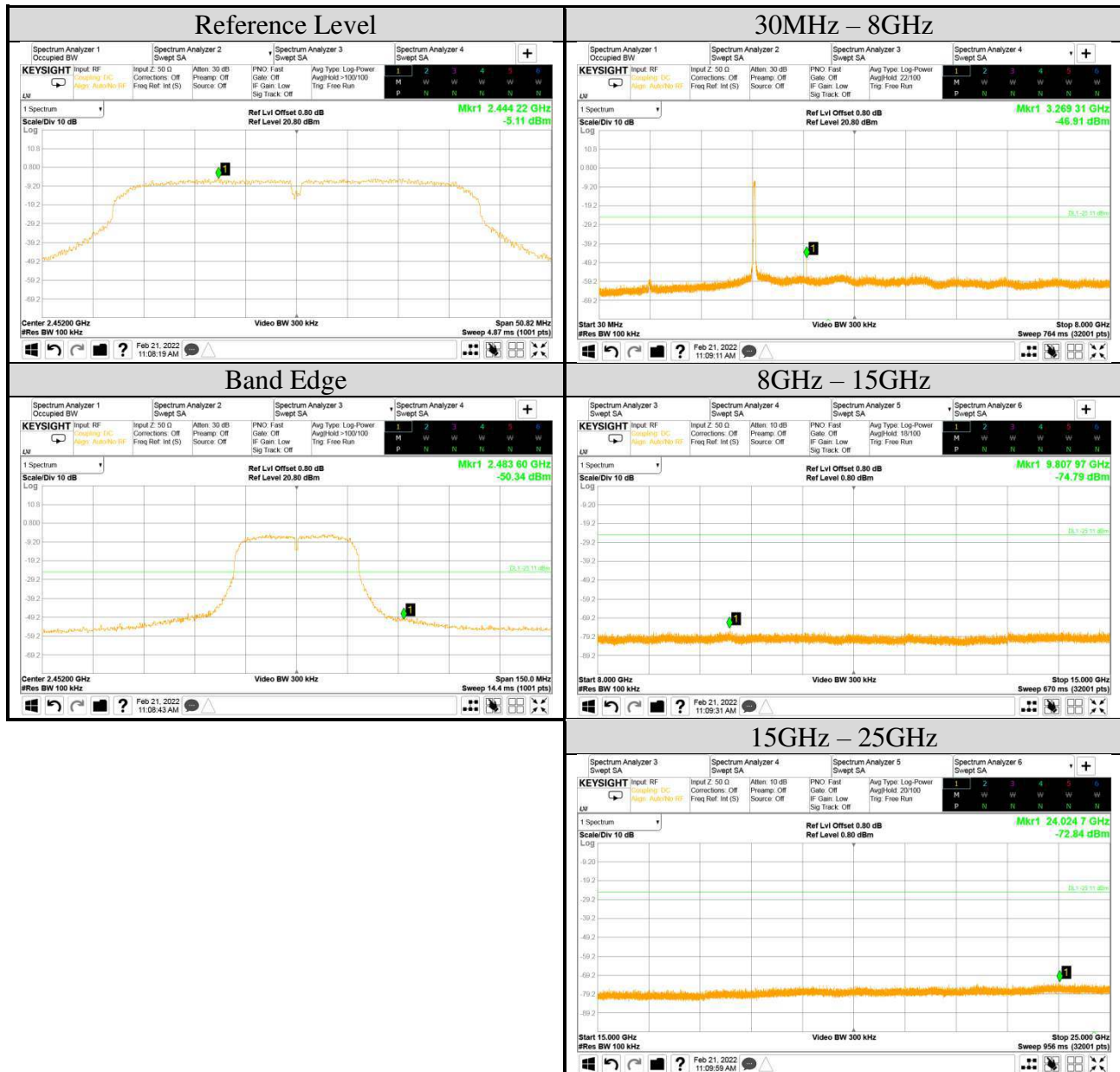
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Test Date	2022/02/21	Temp./Hum.	14°C/74%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2452MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



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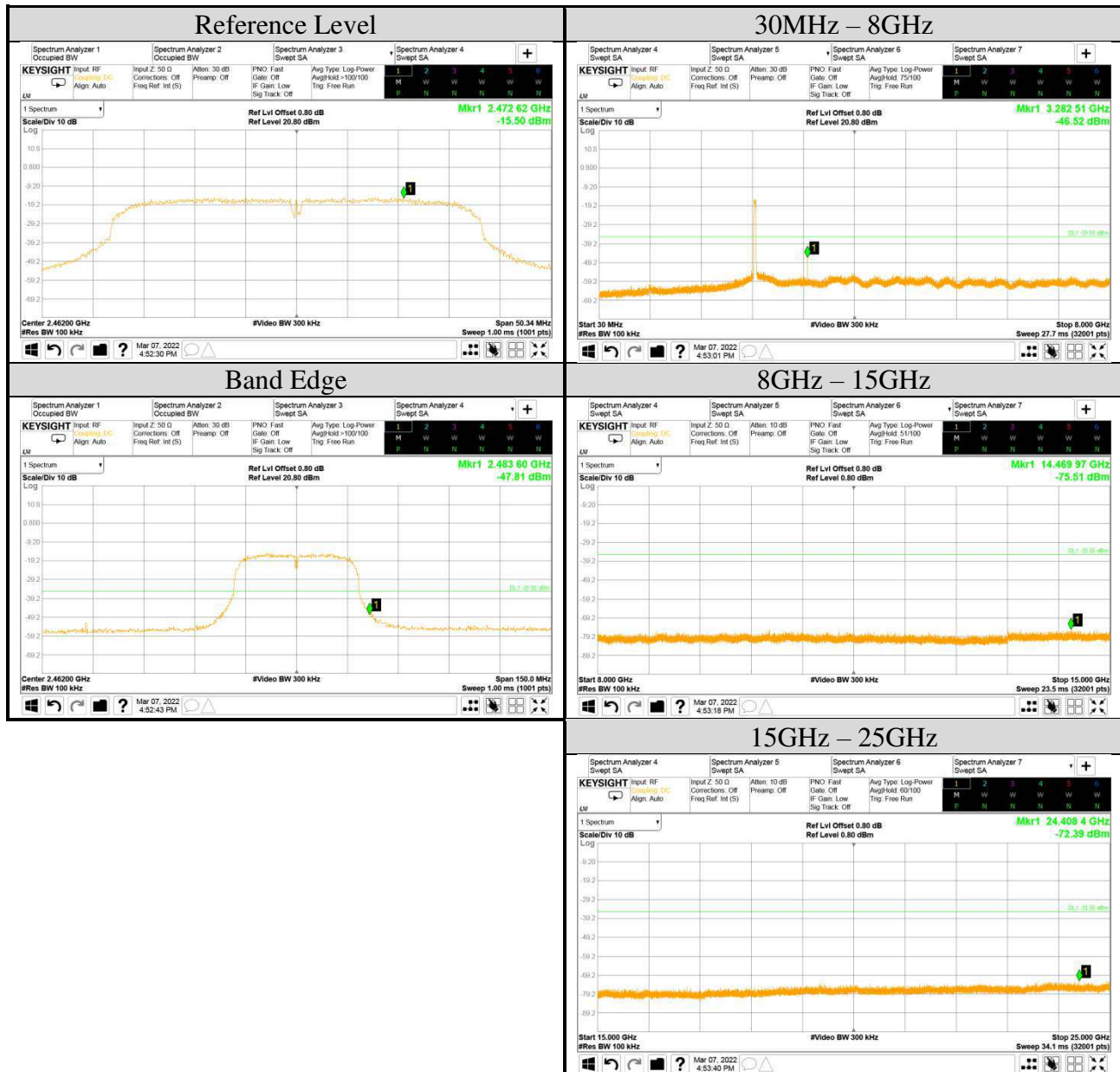
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Test Date	2022/03/07	Temp./Hum.	20°C/65%
Cable Loss	0.8dB	Test Voltage	AC 120V/60Hz
Mode	802.11n-HT40	Tested By	Martin Chen
Frequency	TX 2462MHz		
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0



A.6 POWER SPECTRAL DENSITY

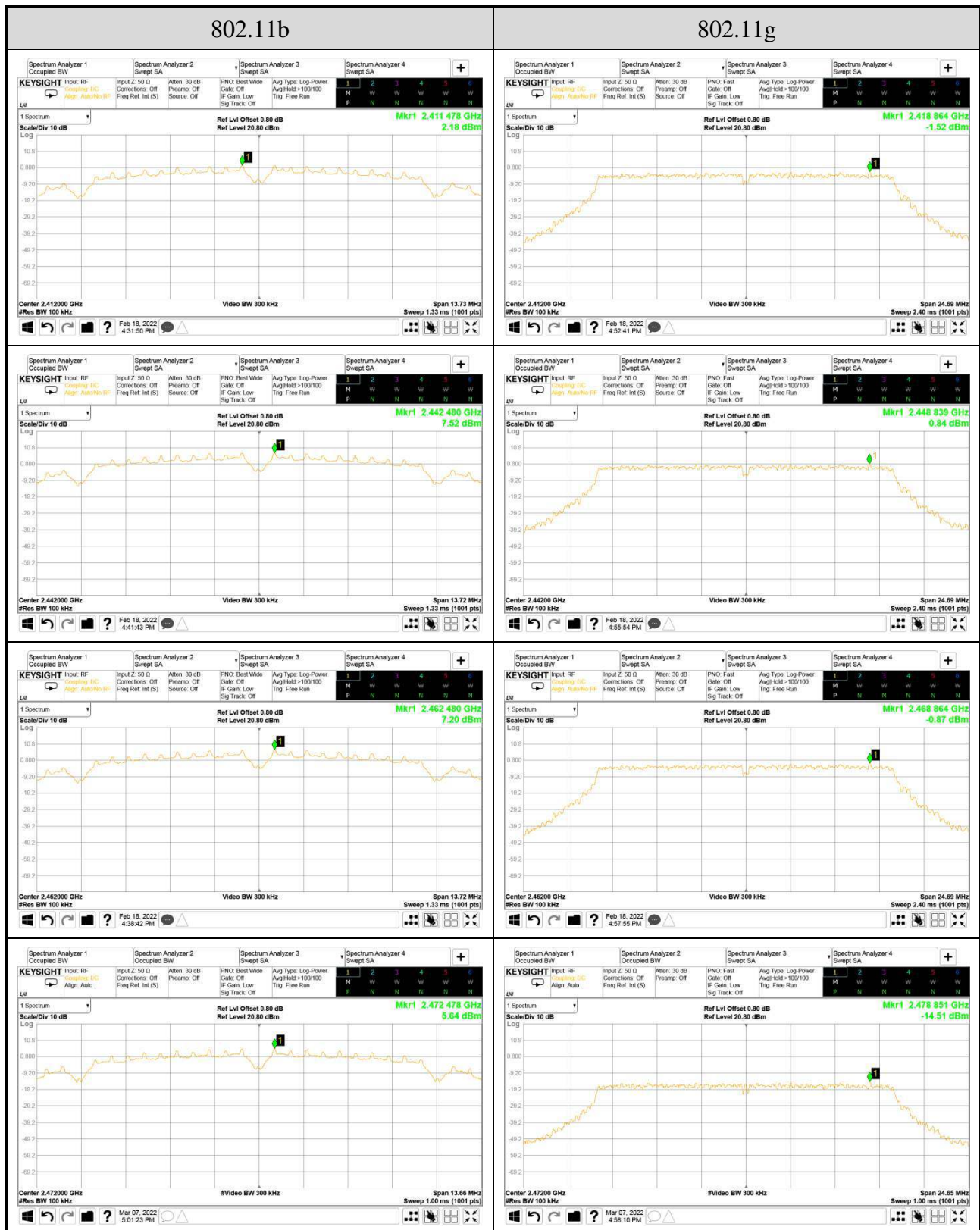
Test Date	2022/02/18 ~ 03/07	Temp./Hum.	14 ~ 20°C/65 ~ 76%
Cable Loss	0.8dB	Tested By	Martin Chen
Test Voltage	AC 120V/60Hz		
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0

A.6.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	2.18	<8 dBm/3kHz
	2442	7.52	
	2462	7.20	
	2472	5.64	
802.11g	2412	-1.52	
	2442	0.84	
	2462	-0.87	
	2472	-14.51	
802.11n-HT20	2412	-1.53	
	2442	1.08	
	2462	-1.40	
	2472	-14.31	
802.11n-HT40	2422	-3.39	
	2442	-2.12	
	2452	-5.11	
	2462	-15.50	

Note: All results have been included cable loss and Simultaneous Factor.

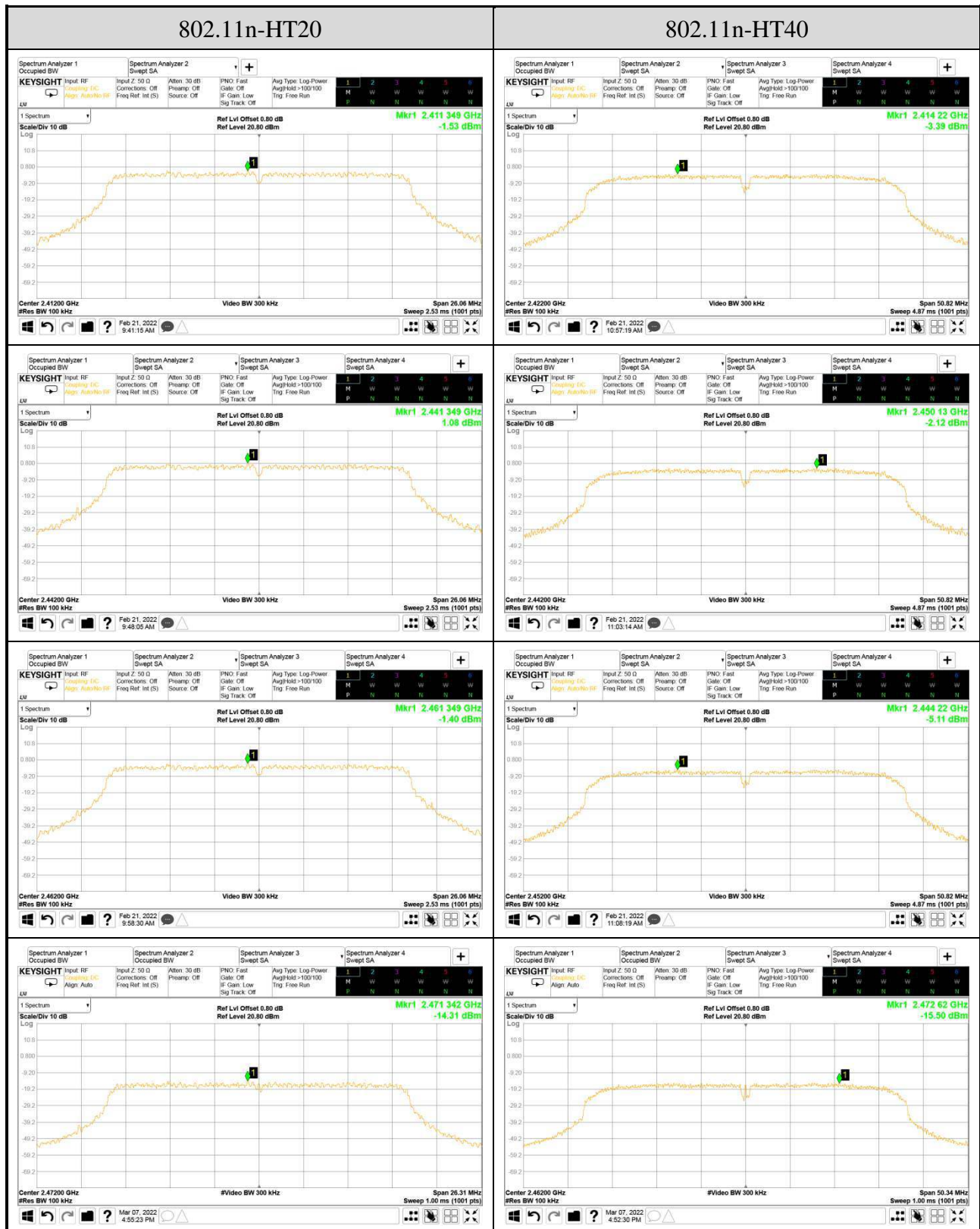
A.6.2 Measurement Plots



Note: All results have been included cable loss and Simultaneous Factor.

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Note: All results have been included cable loss and Simultaneous Factor.