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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: mPAD-12.....)

TABLE OF CONTENTS

A.1 6dB BANDWIDTH MEASUREMENT	2
A.1.1 6dB Bandwidth Result.....	2
A.1.2 Measurement Plots	3
A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT	6
A.2.1 Peak Output Power	6
A.2.2 Average Output Power (Reporting only).....	7
A.3 EMISSION LIMITATIONS MEASUREMENT	8
A.4 POWER SPECTRAL DENSITY	23
A.4.1 Power Spectral Density Result	23
A.4.2 Measurement Plots	24

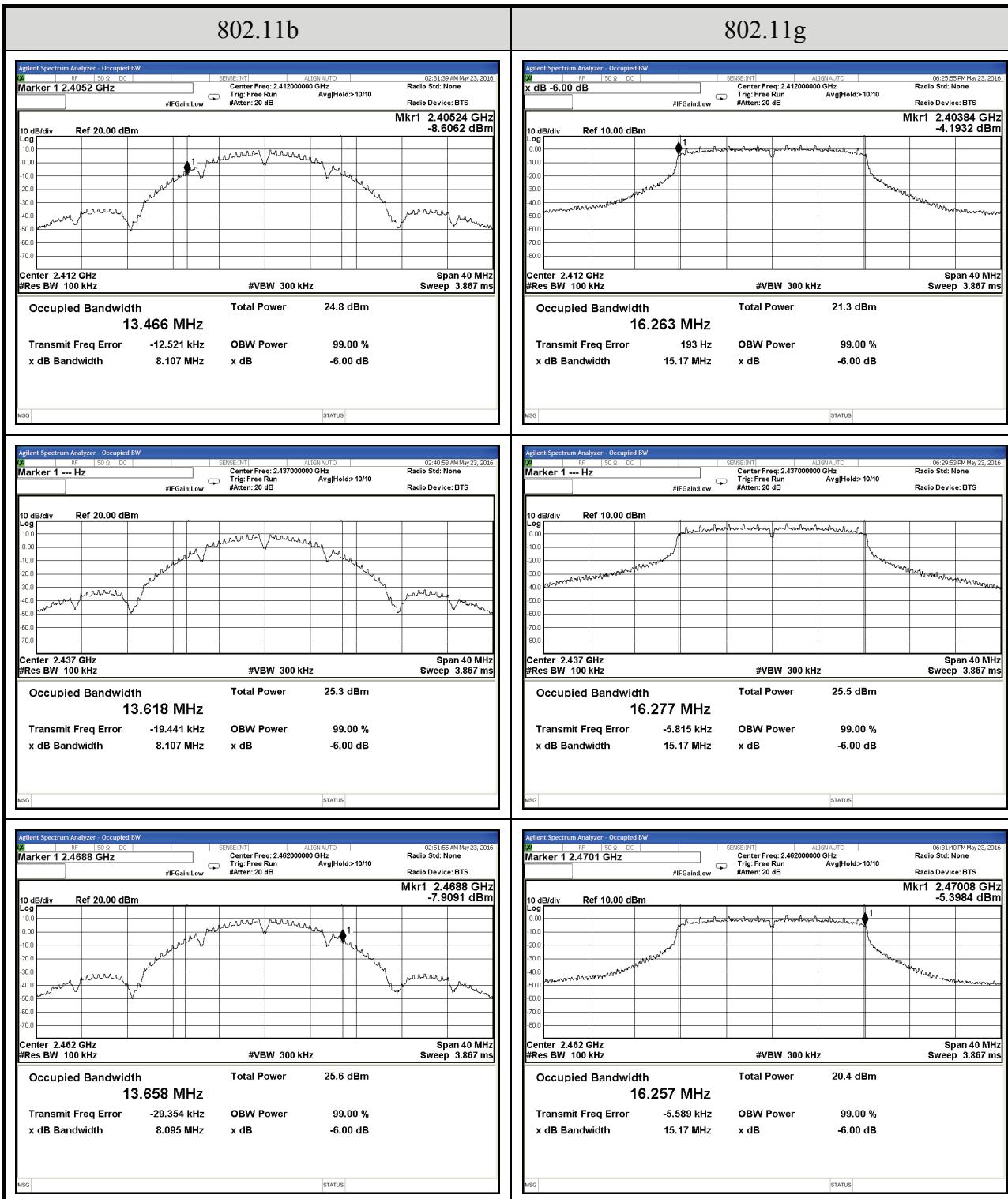
A.1 6dB BANDWIDTH MEASUREMENT

Test Date	2016/05/20 ~ 23	Temp./Hum.	25°C /58%
Cable Loss	---	Test Voltage	AC 120V, 60Hz

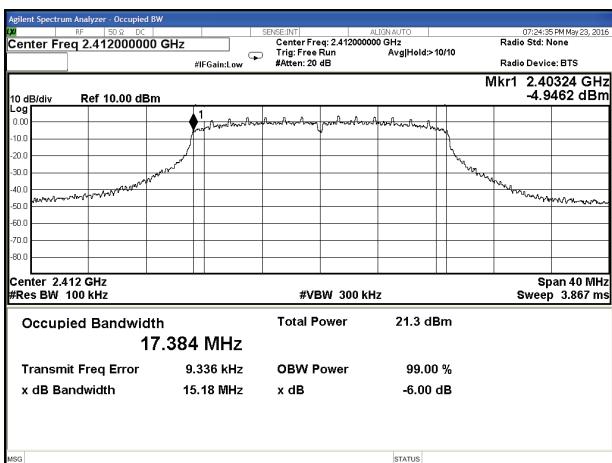
A.1.1 6dB Bandwidth Result

Modulation Type	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	8.107	>500kHz
	2437	8.107	
	2462	8.095	
802.11g	2412	15.17	>500kHz
	2437	15.17	
	2462	15.17	
802.11n-HT20	2412	15.18	>500kHz
	2437	15.18	
	2462	15.18	
802.11n-HT40	2422	35.21	>500kHz
	2437	35.19	
	2452	35.17	
BLE	2402	0.6830	>500kHz
	2440	0.6825	
	2480	0.6772	

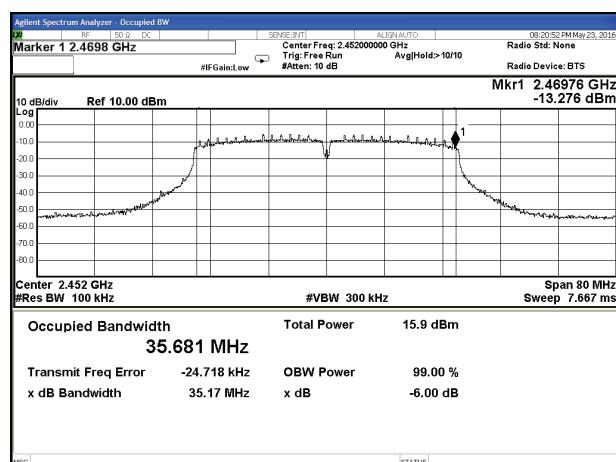
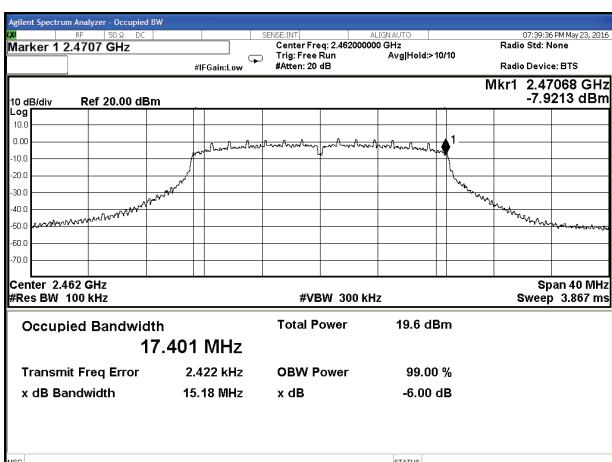
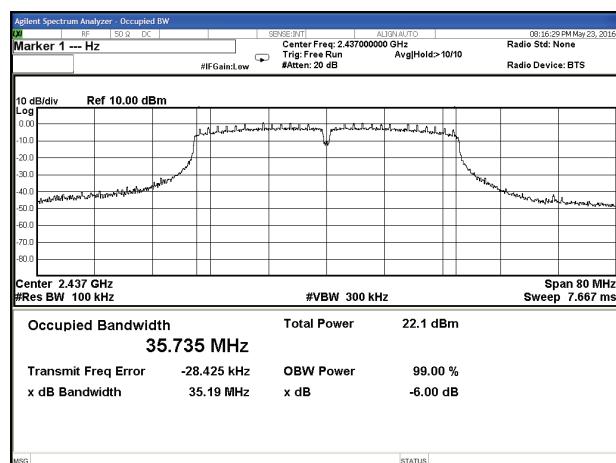
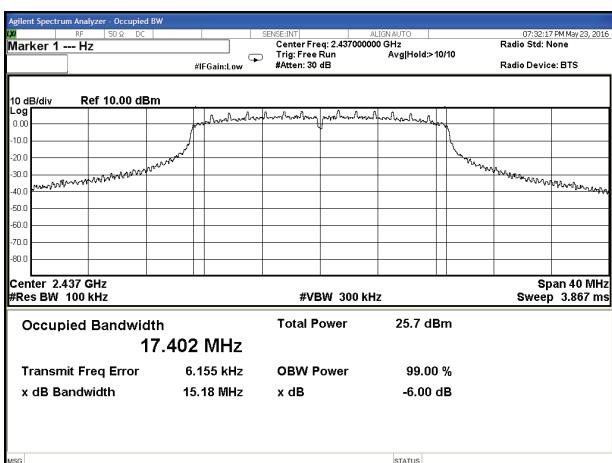
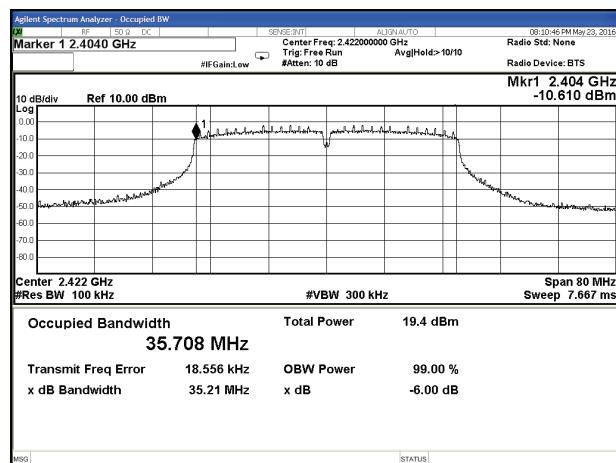
A.1.2 Measurement Plots

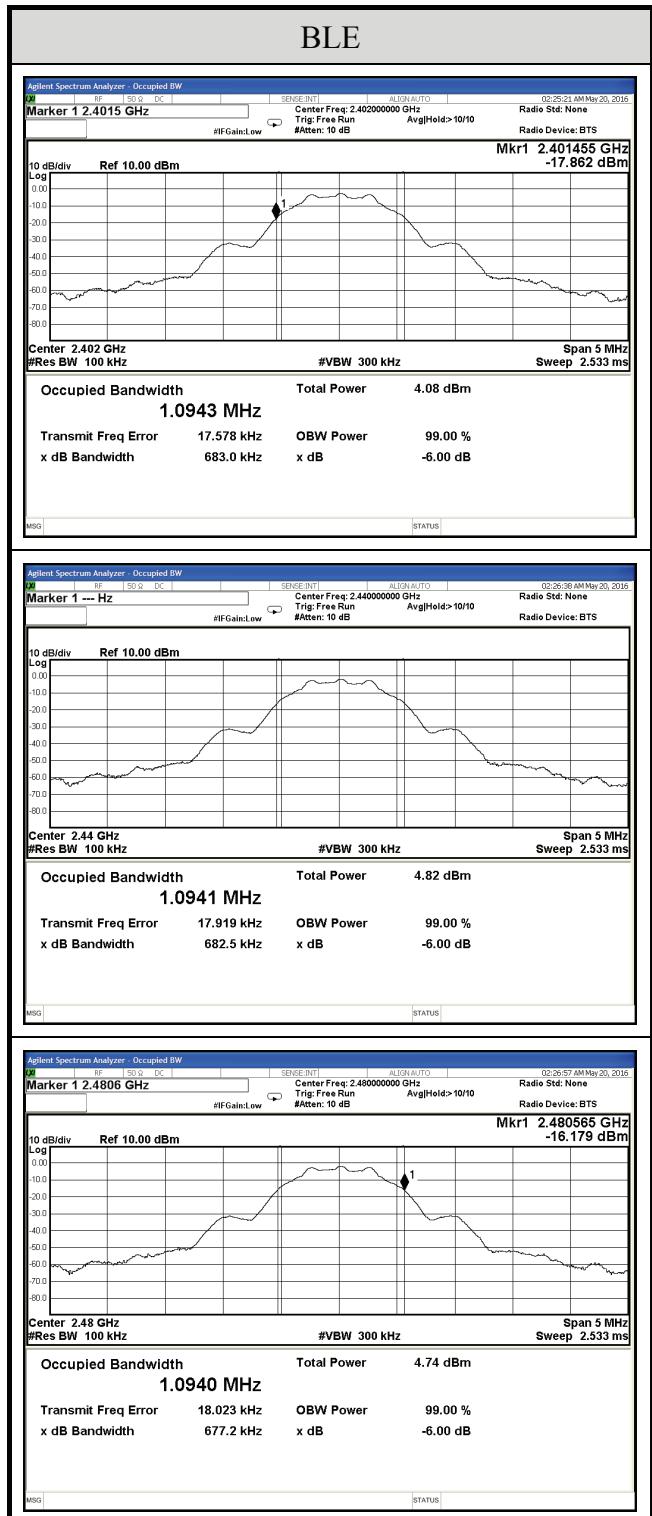


802.11n-HT20



802.11n-HT40





A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/06/14	Temp./Hum.	25°C /58%
Cable Loss	---	Test Voltage	AC 120V, 60Hz

A.2.1 Peak Output Power

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		Total Peak Output Power		Limit
		Chain 0	Chain 1	(dBm)	(W)	
802.11b	2412	19.76	19.74	22.76	0.188799	< 30dBm (1W)
	2437	20.56	20.66	23.62	0.230144	
	2462	20.76	20.05	23.43	0.220293	
802.11g	2412	20.73	20.17	23.47	0.222331	
	2437	24.49	24.16	27.34	0.542001	
	2462	20.24	19.59	22.94	0.196789	
802.11n-HT20	2412	20.77	20.49	23.64	0.231206	
	2437	24.56	24.26	27.42	0.552077	
	2462	19.37	18.62	22.02	0.159221	
802.11n-HT40	2422	19.13	18.52	21.85	0.153109	< 30dBm (1W)
	2437	21.85	21.46	24.67	0.293089	
	2452	15.28	14.78	18.05	0.063826	

Note: The results have been included cable loss.

Modulation Type	Centre Frequency (MHz)	MAX Output Power		Limit
		(dBm)	(W)	
BLE	2402	-1.74	0.000670	< 30dBm (1W)
	2440	-1.20	0.000759	
	2480	-1.00	0.000794	

Note: The results have been included cable loss.

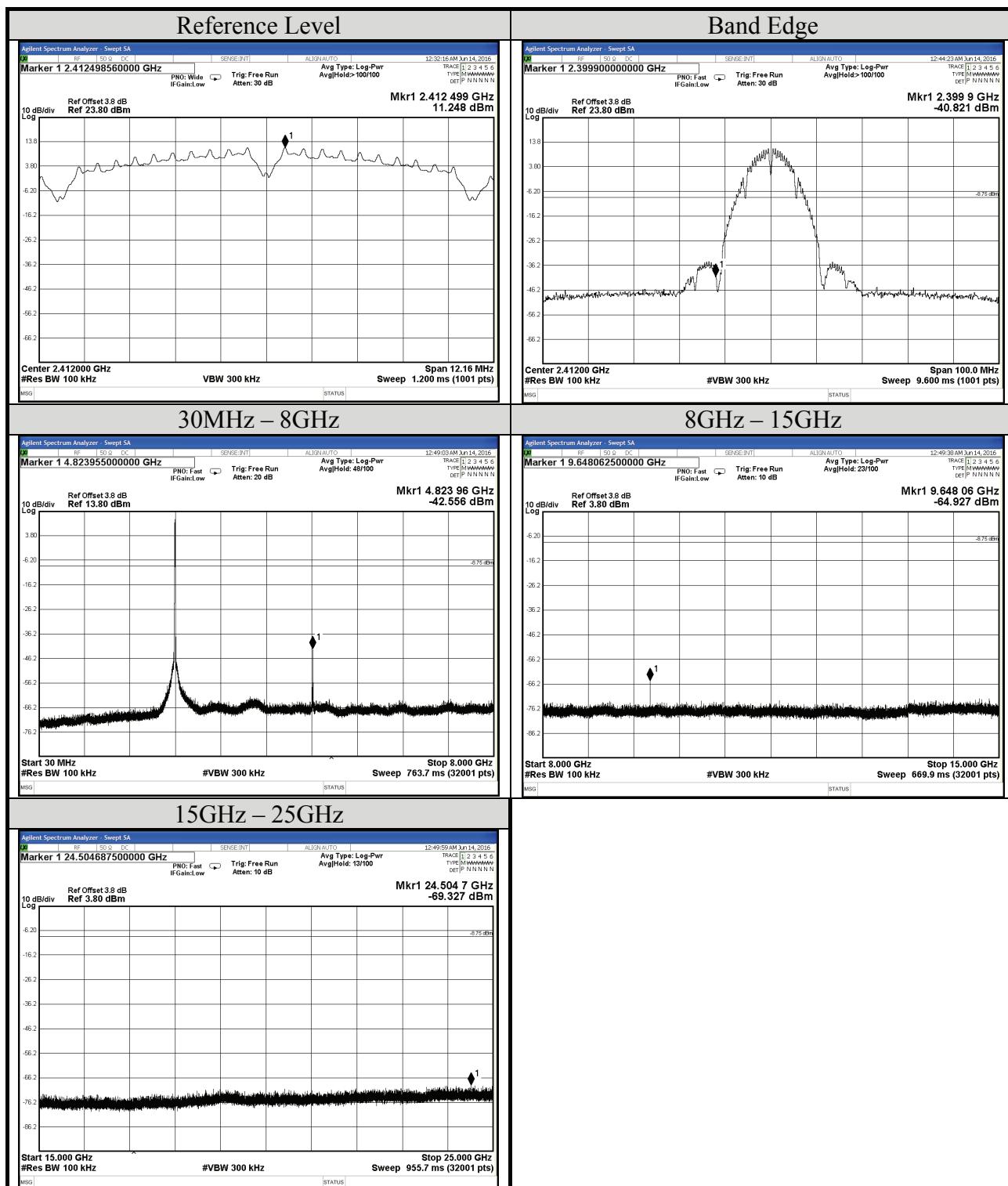
A.2.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
		Chain 0	Chain 1		(dBm)	(W)	
802.11b	2412	17.30	17.63	0.04	20.52	0.112720	< 30dBm (1W)
	2437	18.12	18.52		21.38	0.137404	
	2462	18.33	17.89		21.17	0.130918	
802.11g	2412	13.80	13.43	0.22	16.85	0.048417	
	2437	18.37	18.36		21.60	0.144544	
	2462	13.37	12.83		16.34	0.043053	
802.11n-HT20	2412	13.64	13.29	0.46	16.94	0.049431	
	2437	18.29	18.16		21.69	0.147571	
	2462	12.18	11.71		15.42	0.034834	
802.11n-HT40	2422	11.34	11.12	0.81	15.05	0.031989	
	2437	14.20	14.00		17.92	0.061944	
	2452	8.02	7.53		11.60	0.014454	

Note: The results have been included cable loss.

A.3 EMISSION LIMITATIONS MEASUREMENT

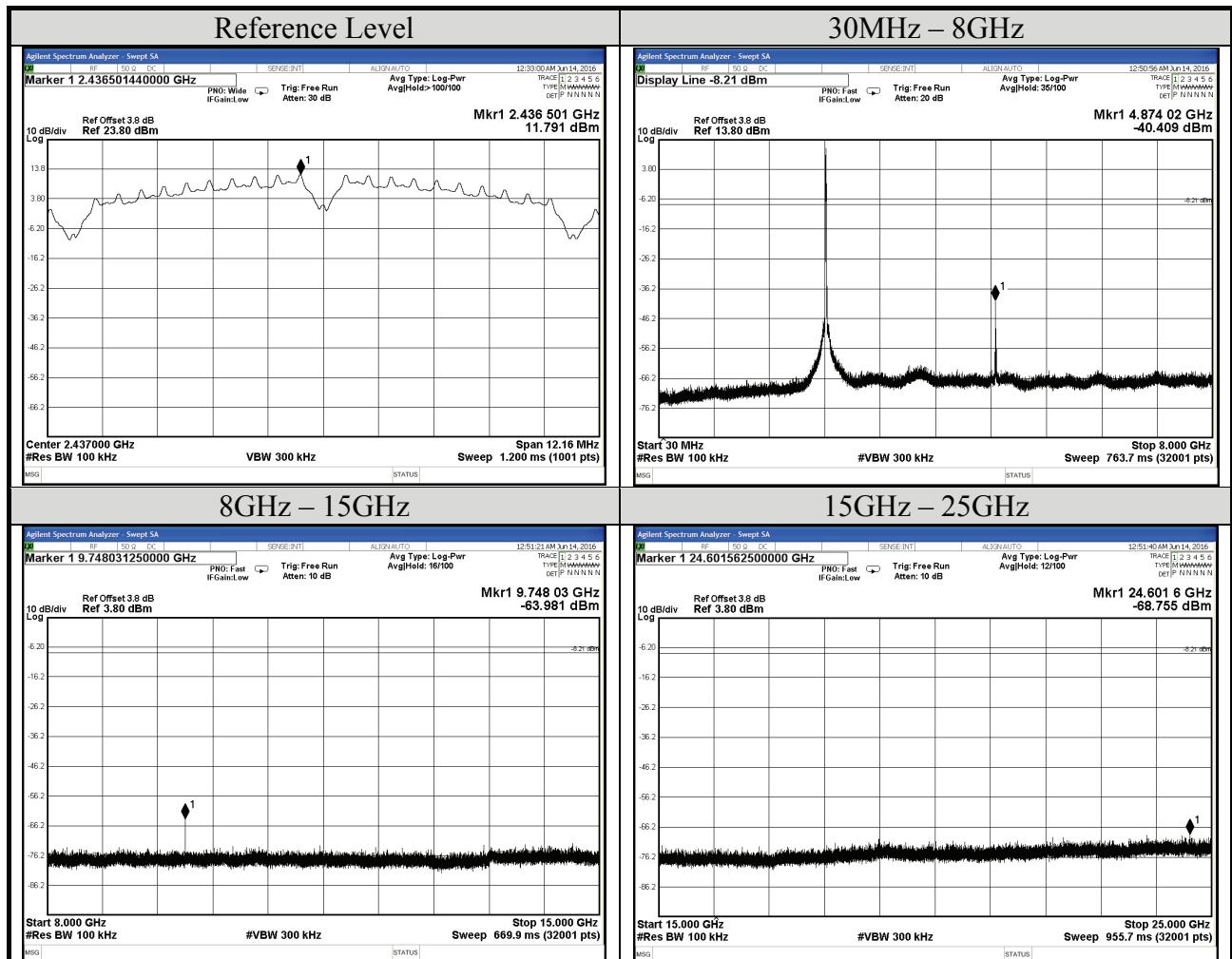
Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



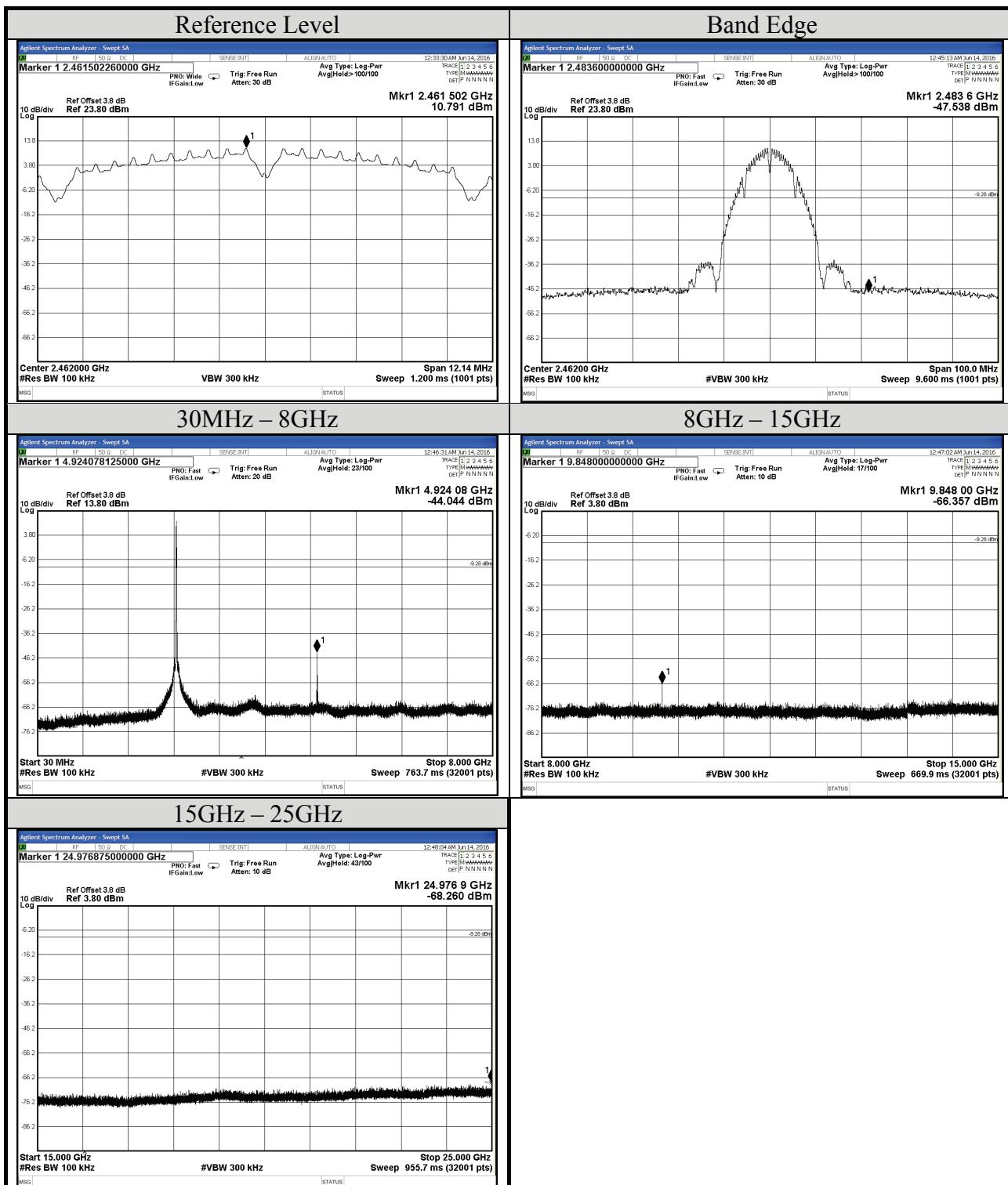
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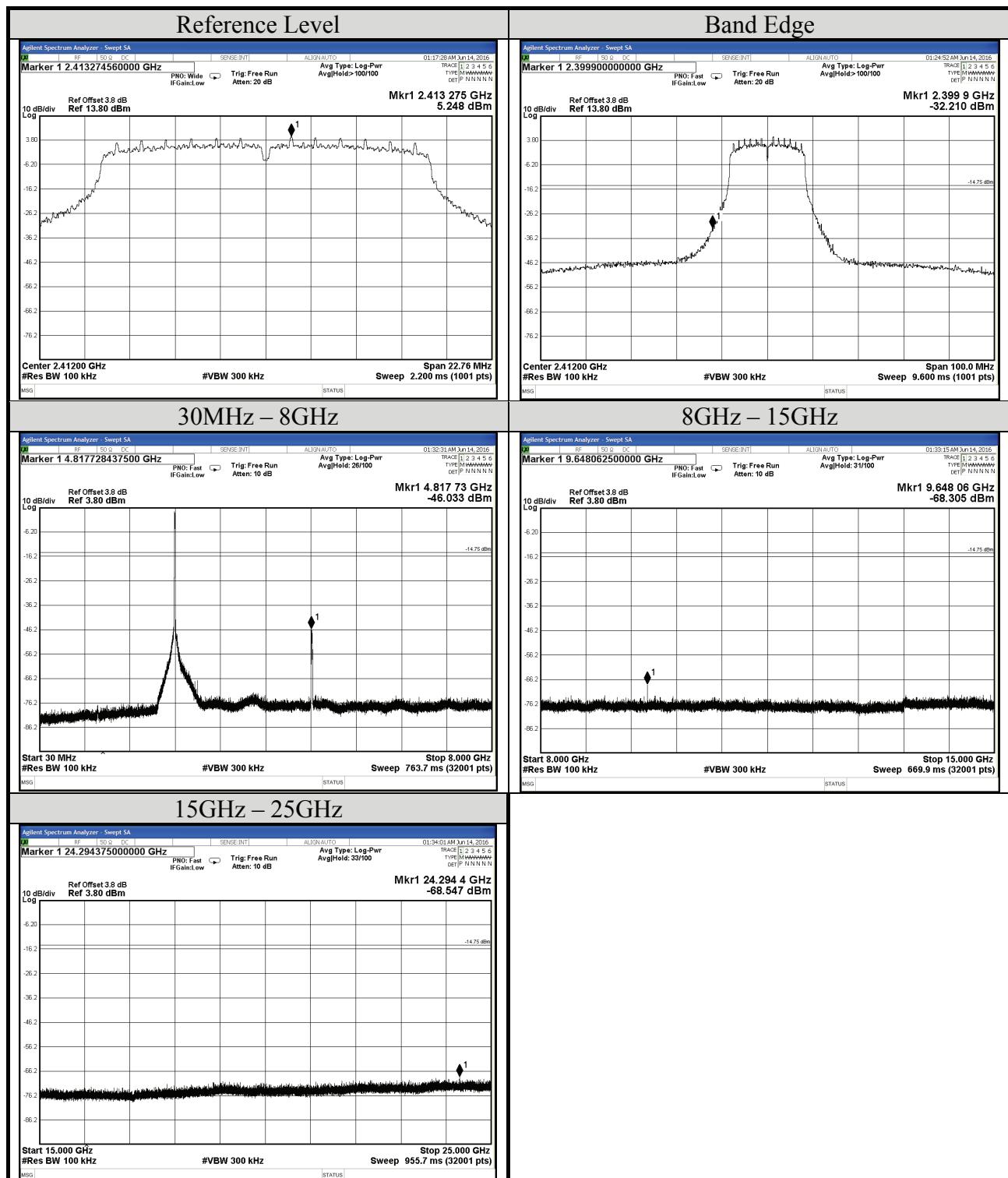
Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	DC 3.3V
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



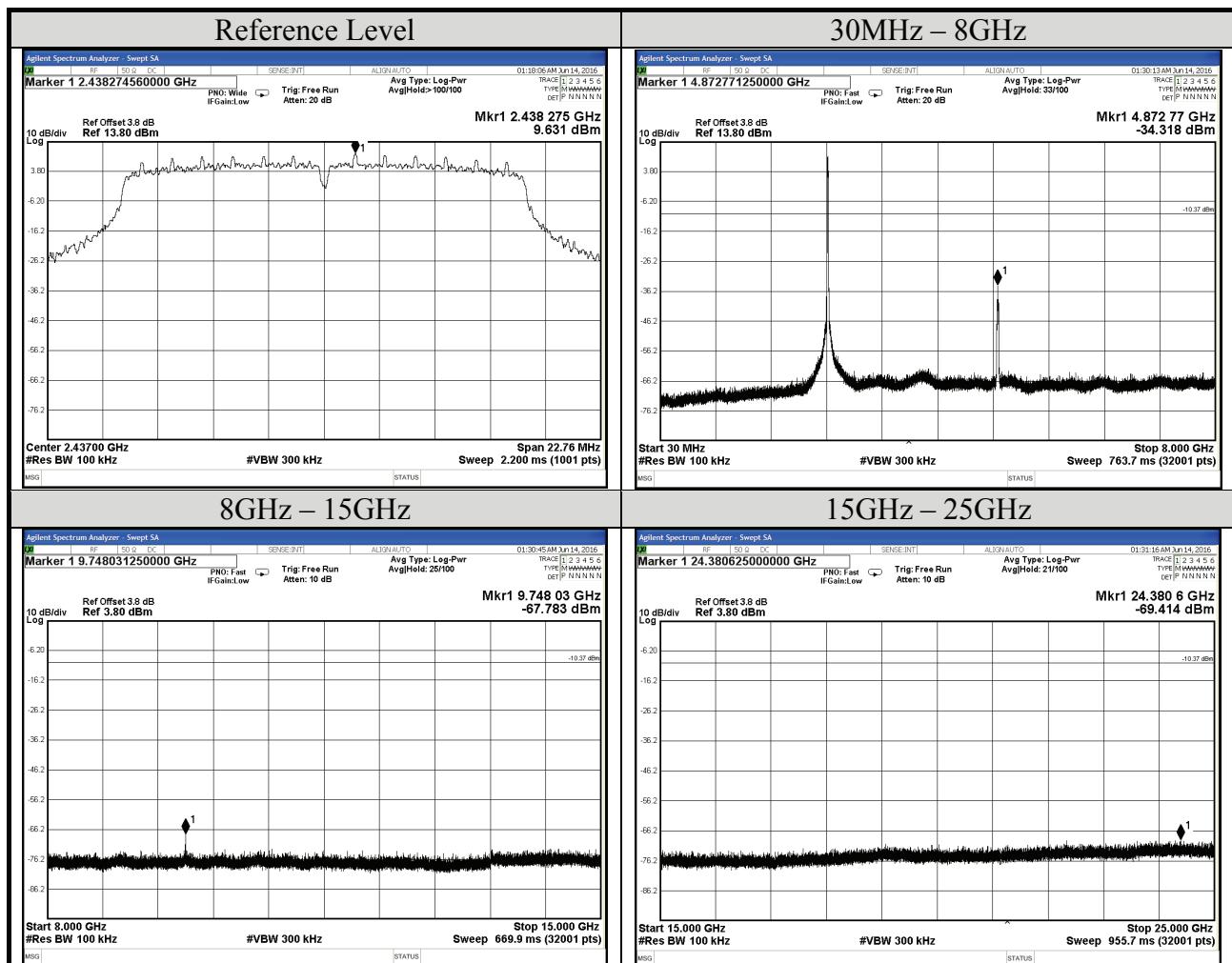
Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



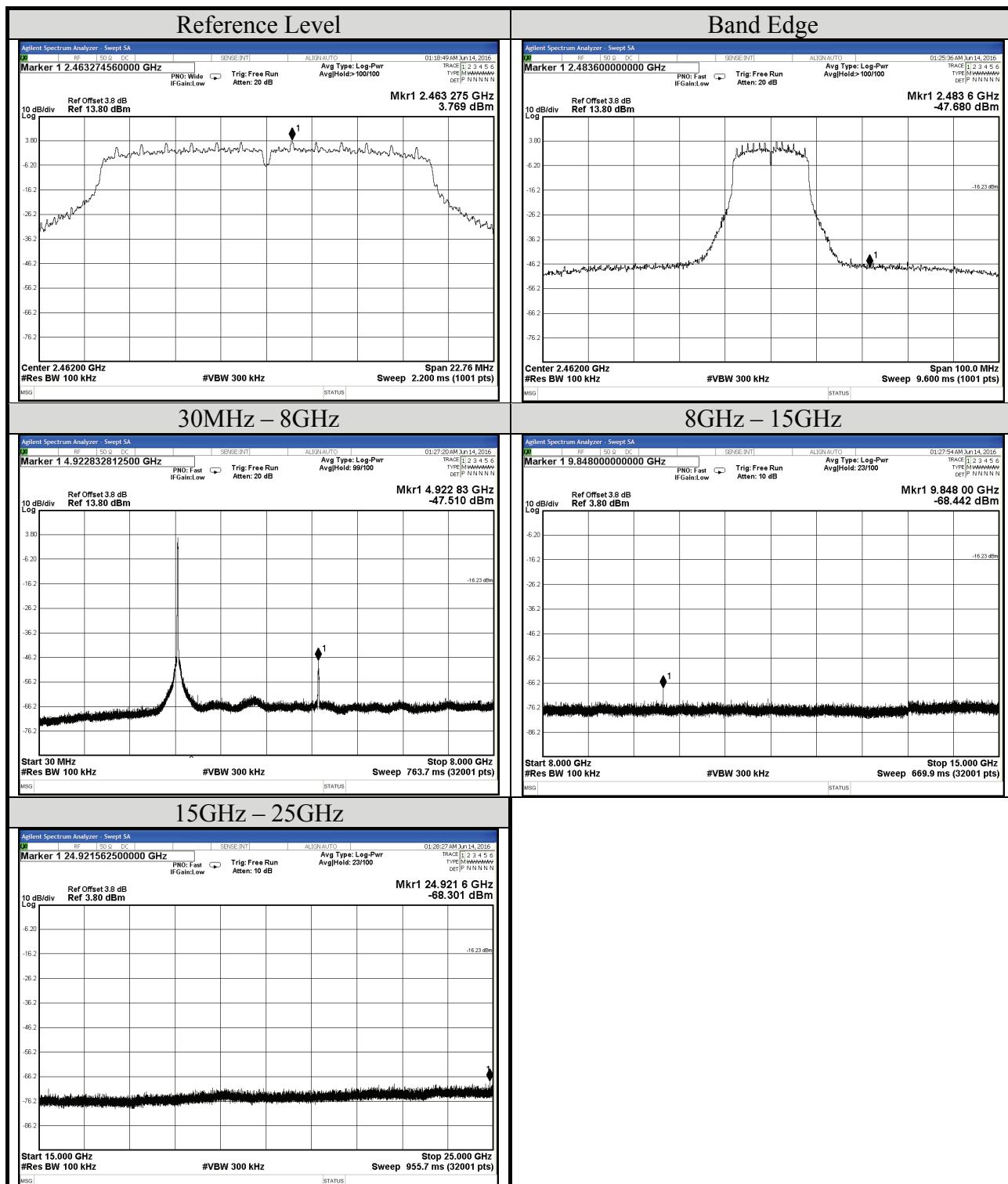
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Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



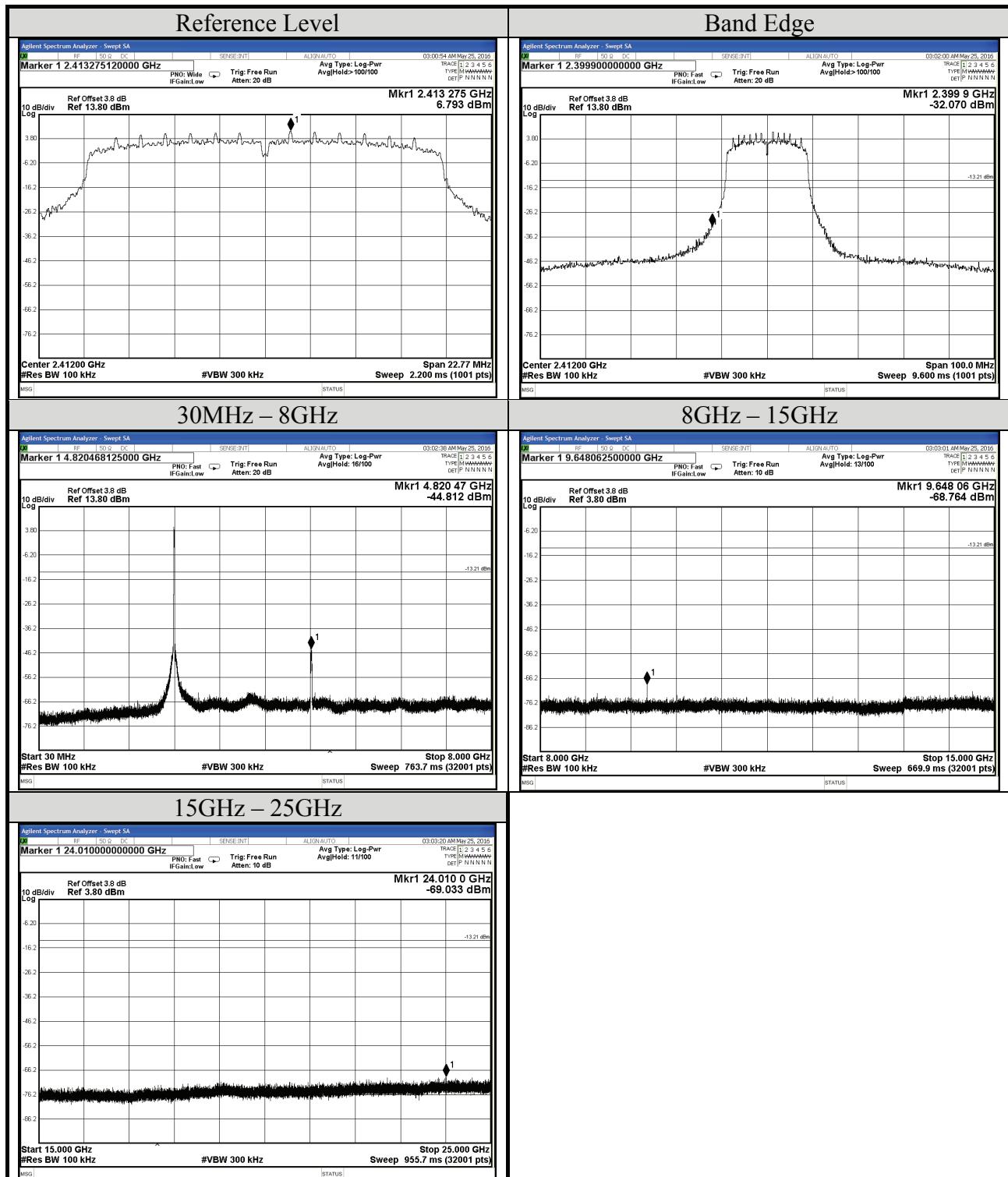
Test Date	2016/06/14	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



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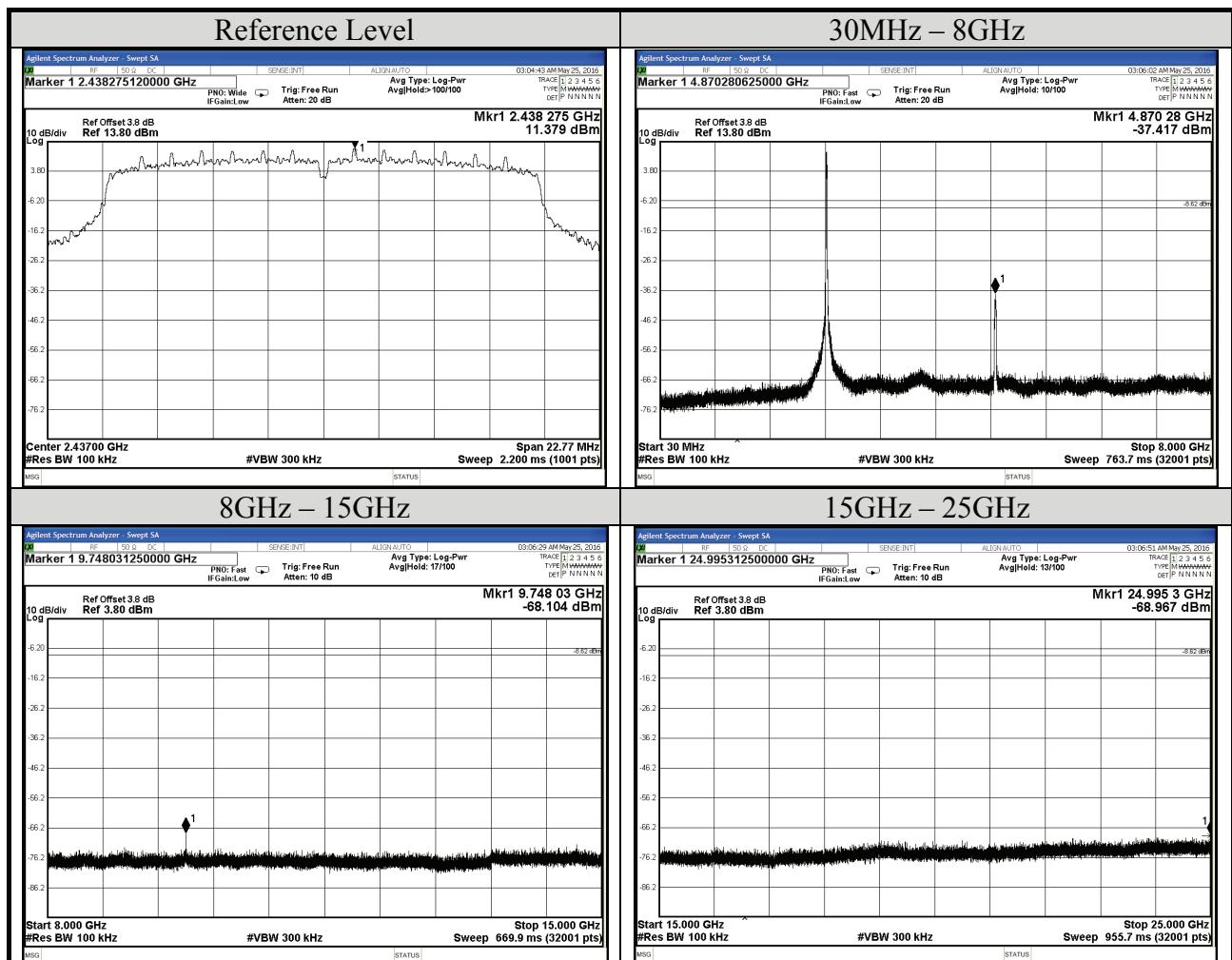
Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)	3		



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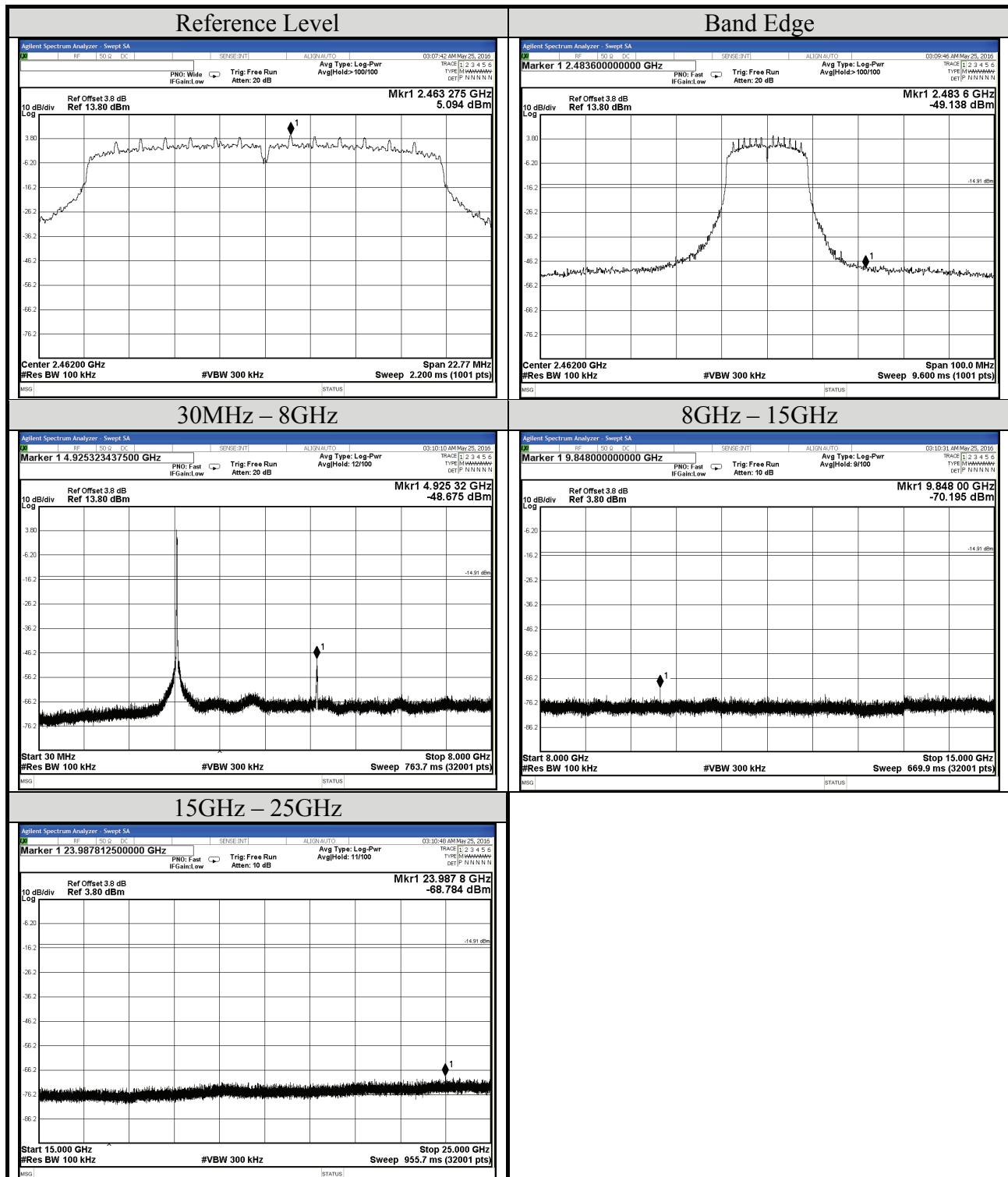
Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



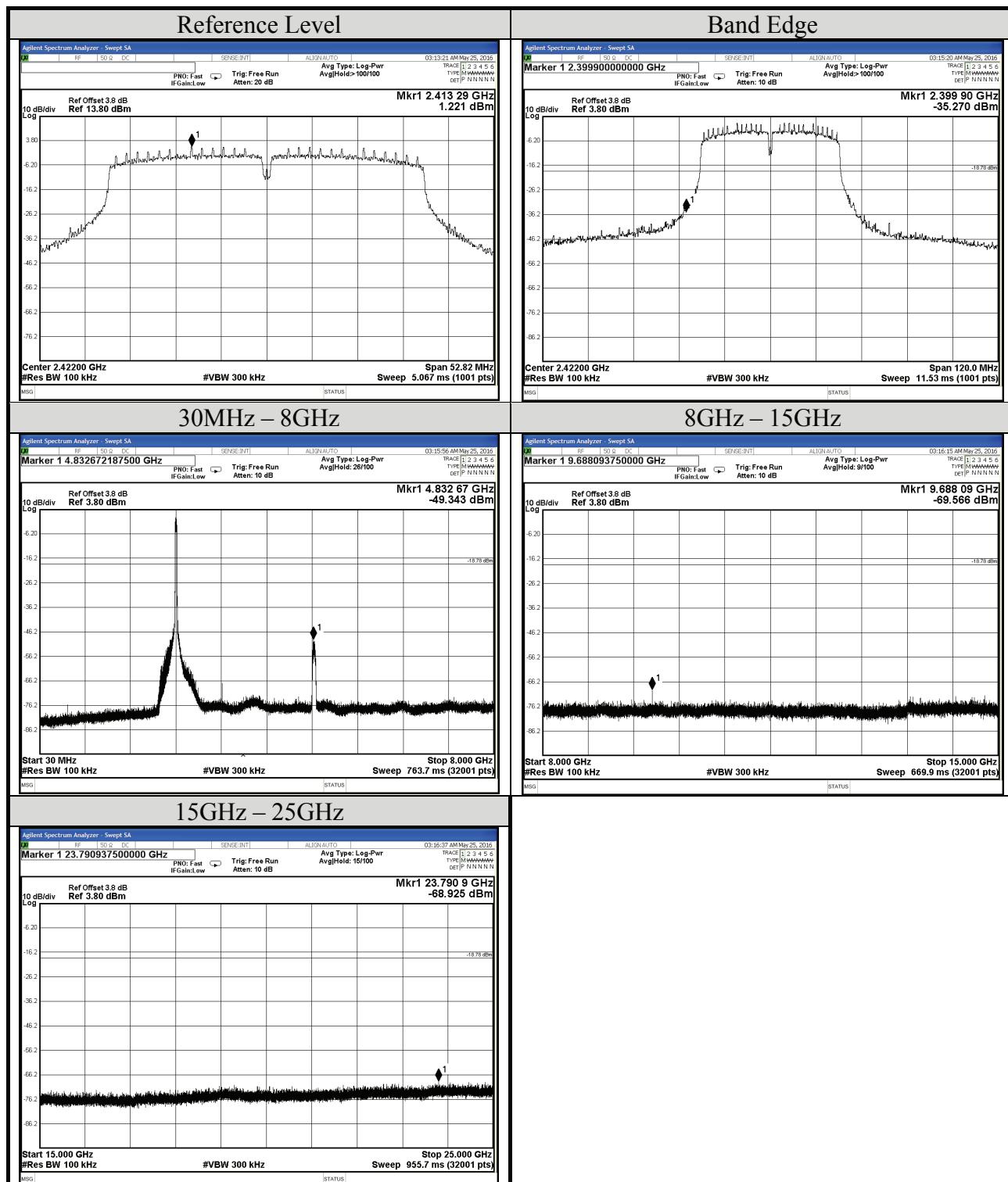
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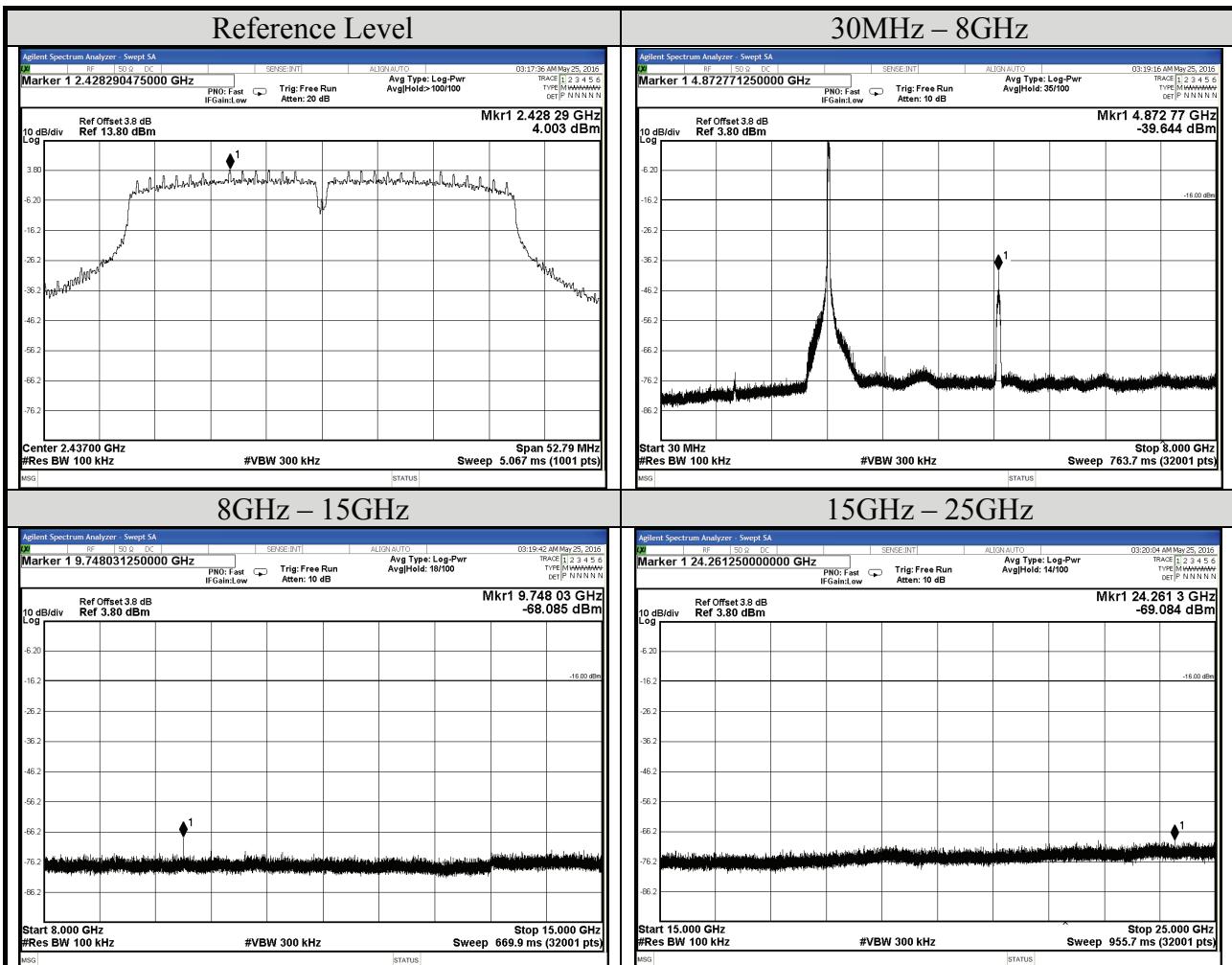
Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



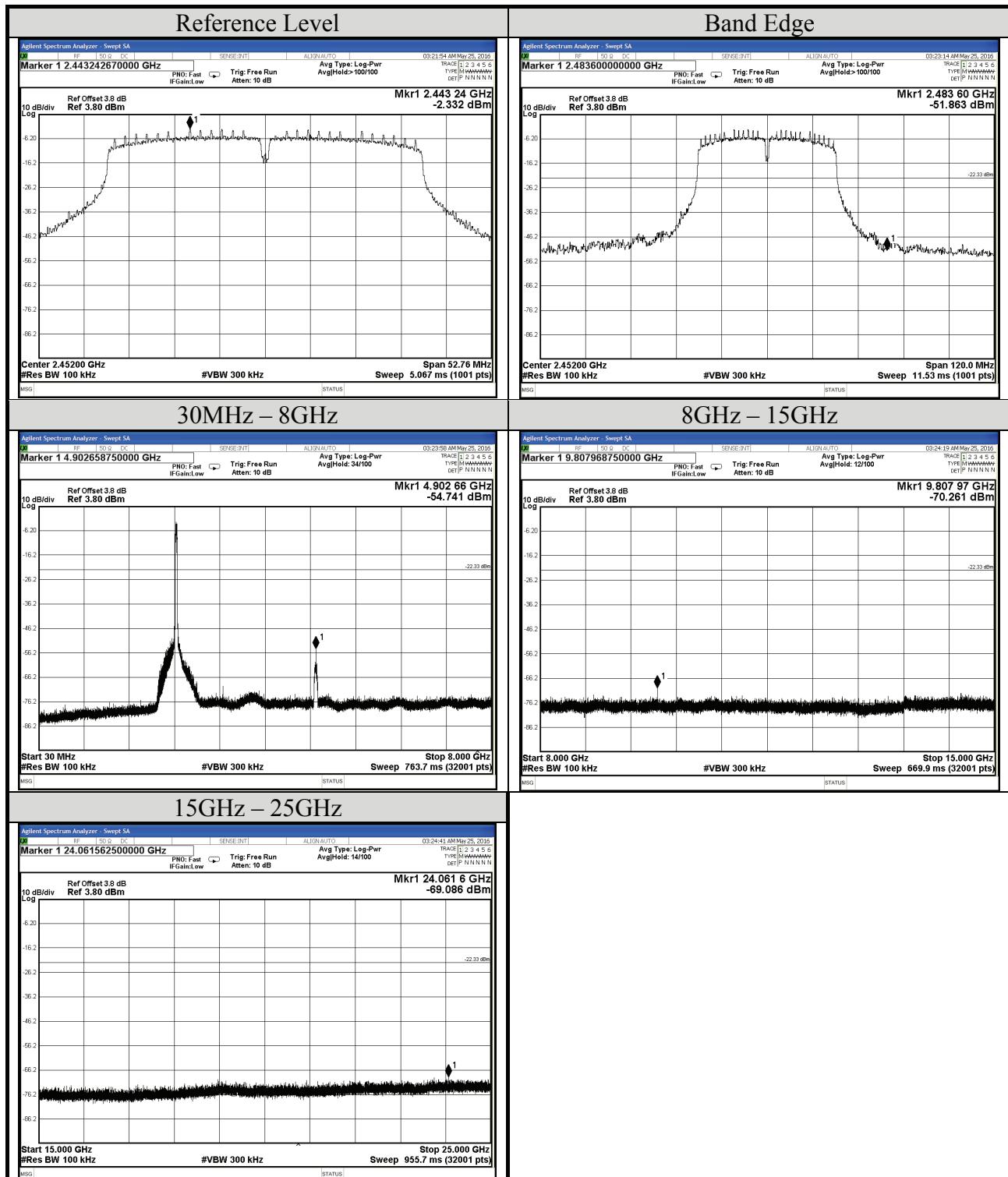
Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3



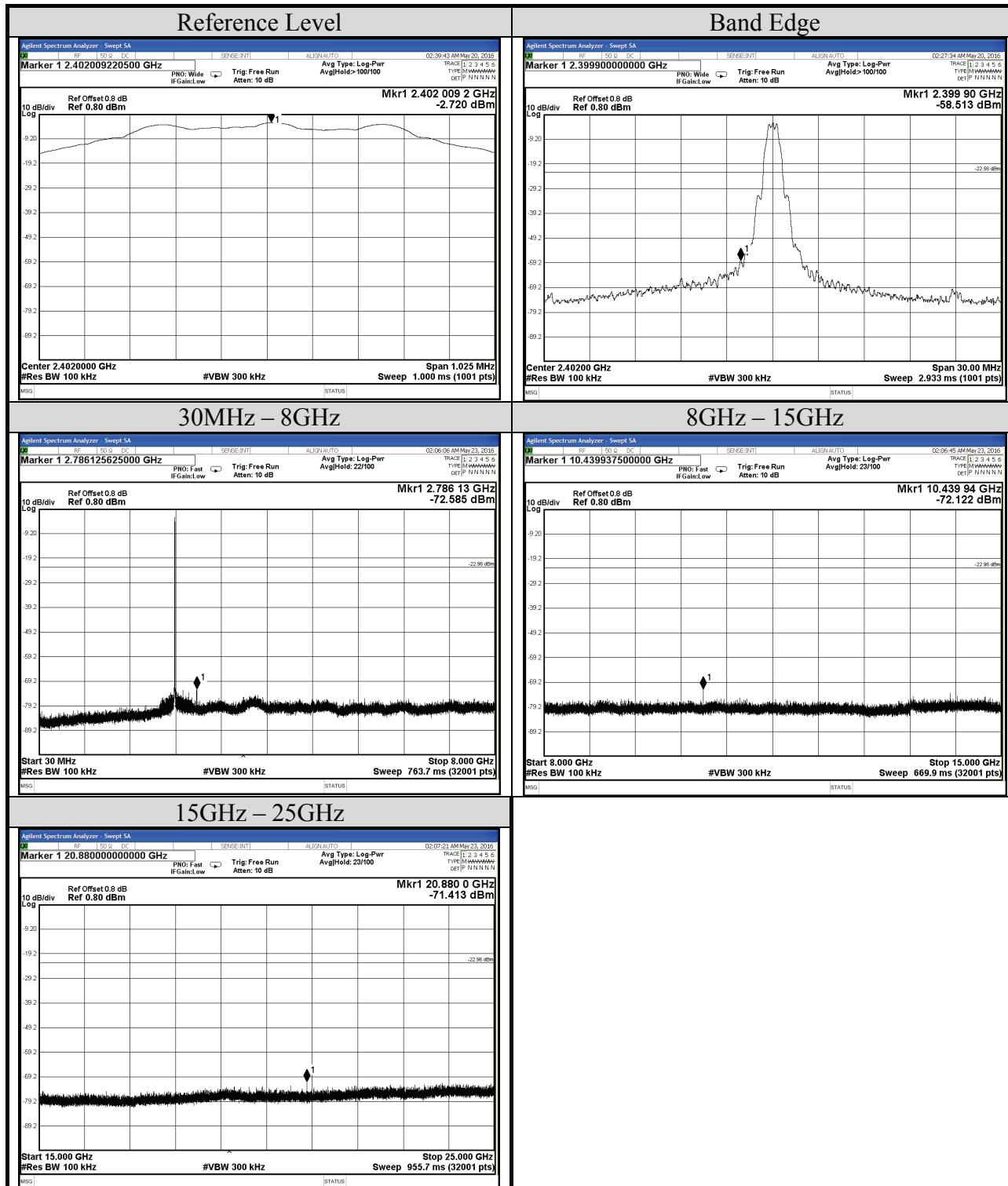
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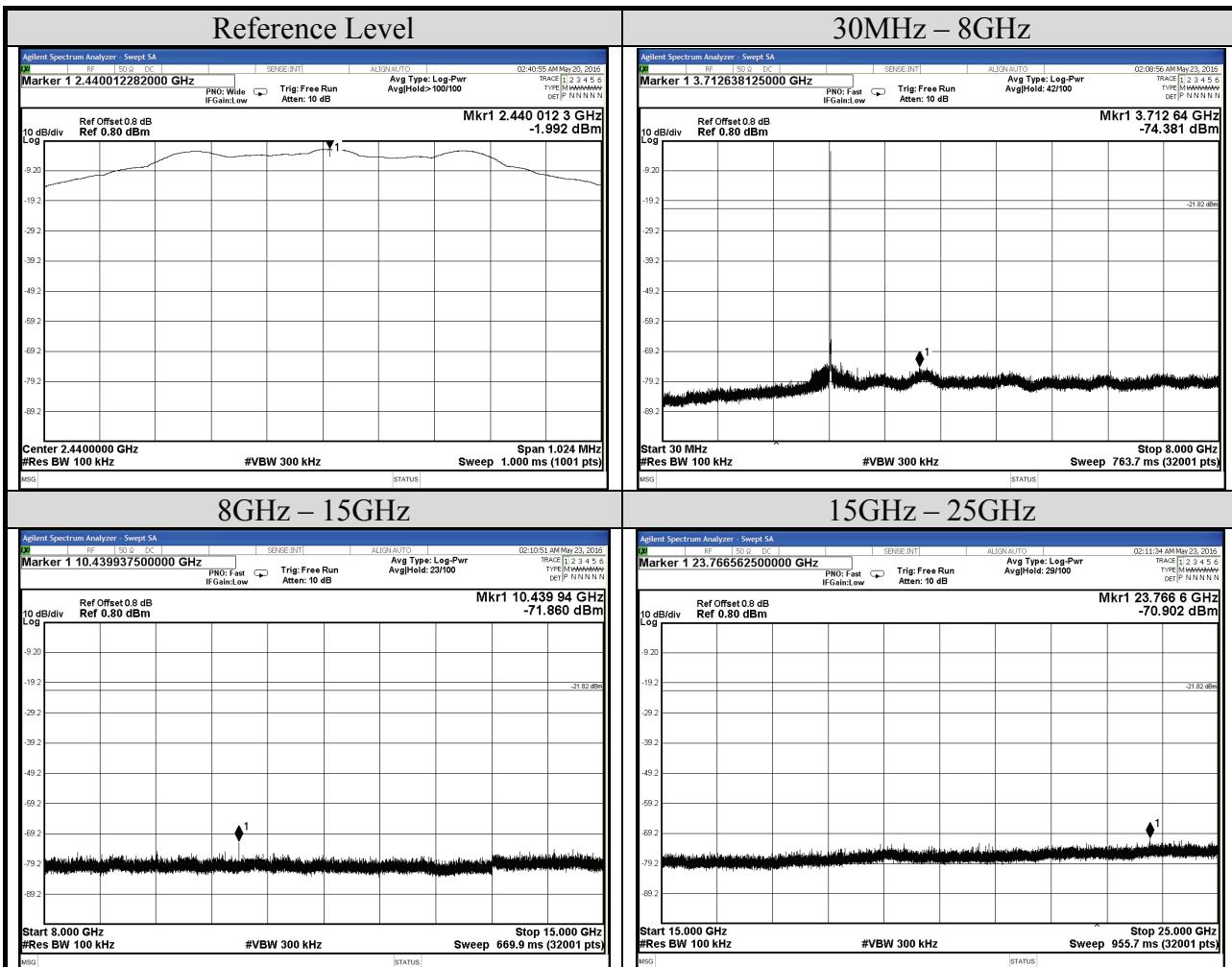
Test Date	2016/05/25	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)	3		



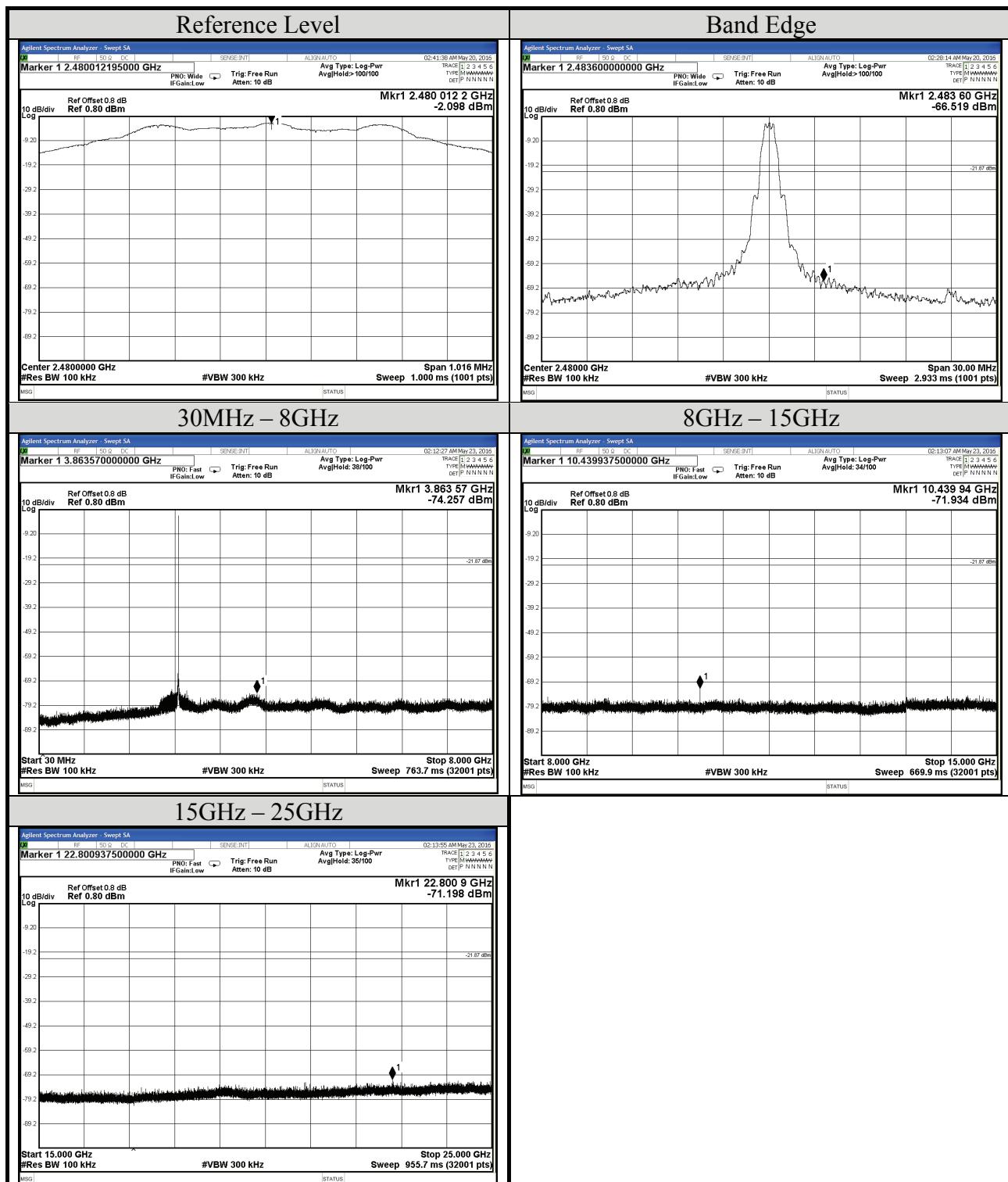
Test Date	2016/05/20 ~ 23	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	BLE	Frequency	TX 2402MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



Test Date	2016/05/20 ~ 23	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	DC 3.3V
Mode	BLE	Frequency	TX 2440MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



Test Date	2016/05/20 ~ 23	Temp./Hum.	25°C/58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Mode	BLE	Frequency	TX 2480MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



A.4 POWER SPECTRAL DENSITY

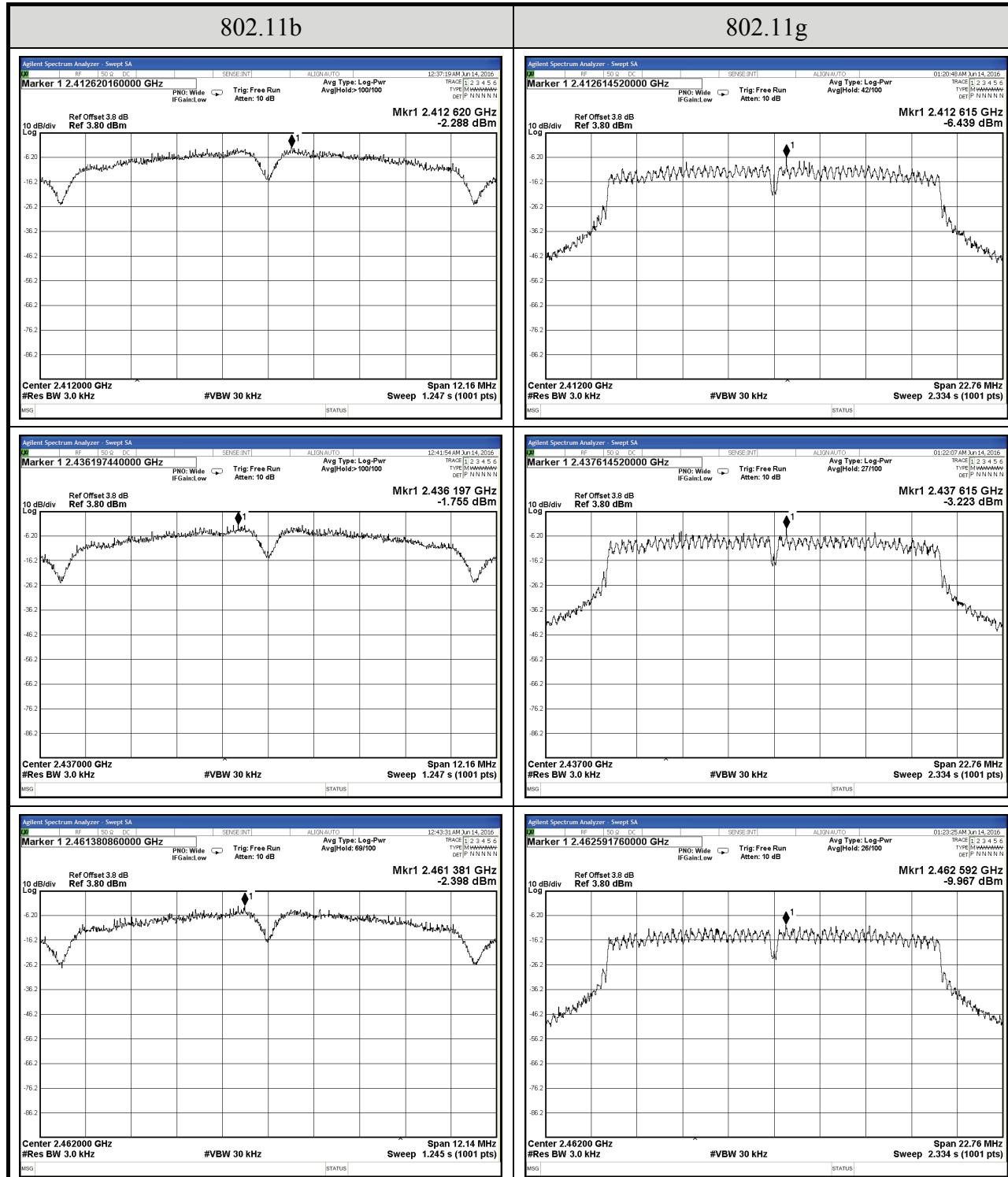
Test Date	2016/05/20 ~ 06/14	Temp./Hum.	25°C /58%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			3

A.4.1 Power Spectral Density Result

Modulation Type	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	-2.288	< 8 dBm/3kHz
	2437	-1.755	
	2462	-2.398	
802.11g	2412	-6.439	< 8 dBm/3kHz
	2437	-3.223	
	2462	-9.967	
802.11n-HT20 ^{Note}	2412	-8.055	< 8 dBm/3kHz
	2437	-4.570	
	2462	-9.803	
802.11n-HT40 ^{Note}	2422	-11.983	< 8 dBm/3kHz
	2437	-10.736	
	2452	-17.226	
BLE	2402	-2.720	< 8 dBm/3kHz
	2440	-1.992	
	2480	-2.098	

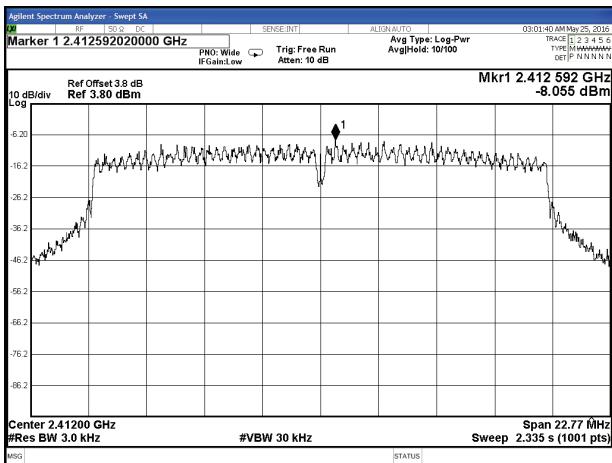
Note: All results have been included cable loss and Simultaneous Factor.

A.4.2 Measurement Plots

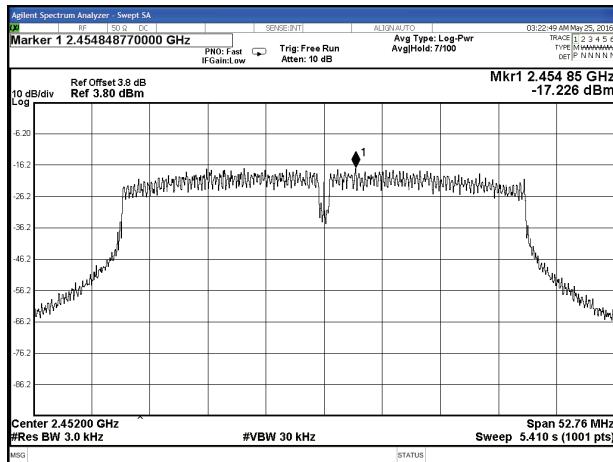
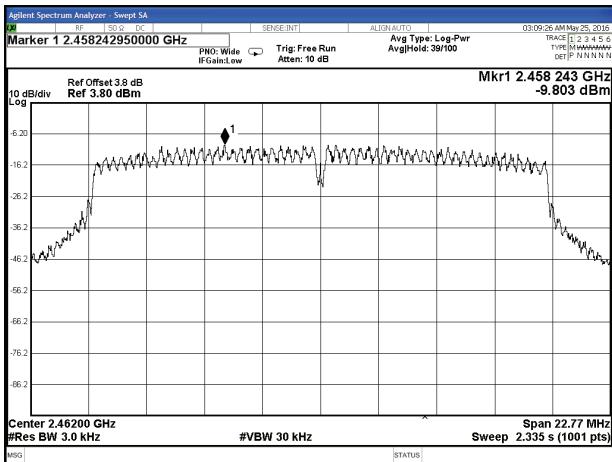
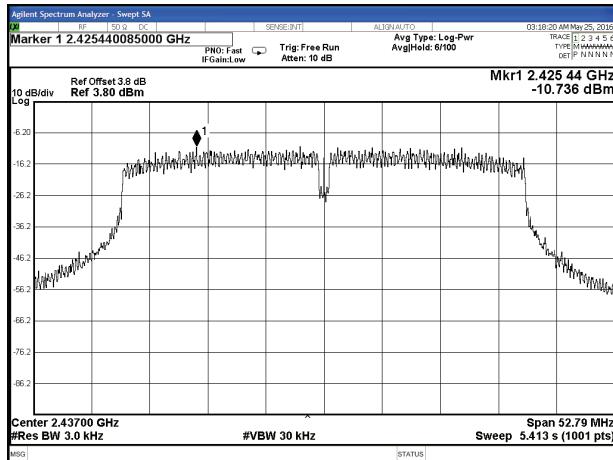
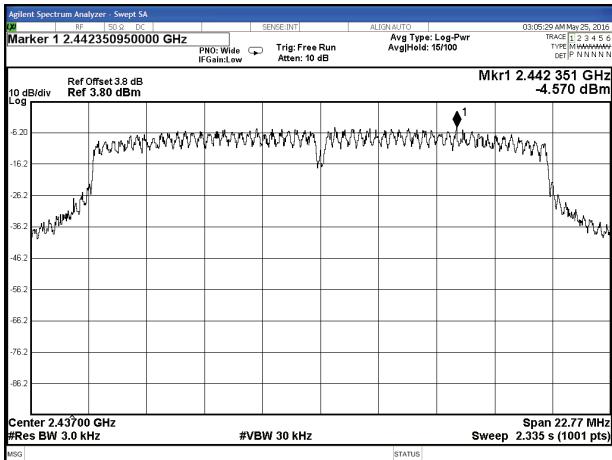
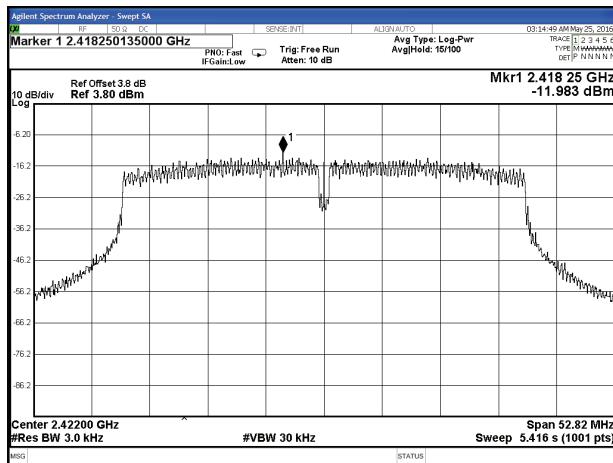


Note: All results have been included cable loss and Simultaneous Factor.

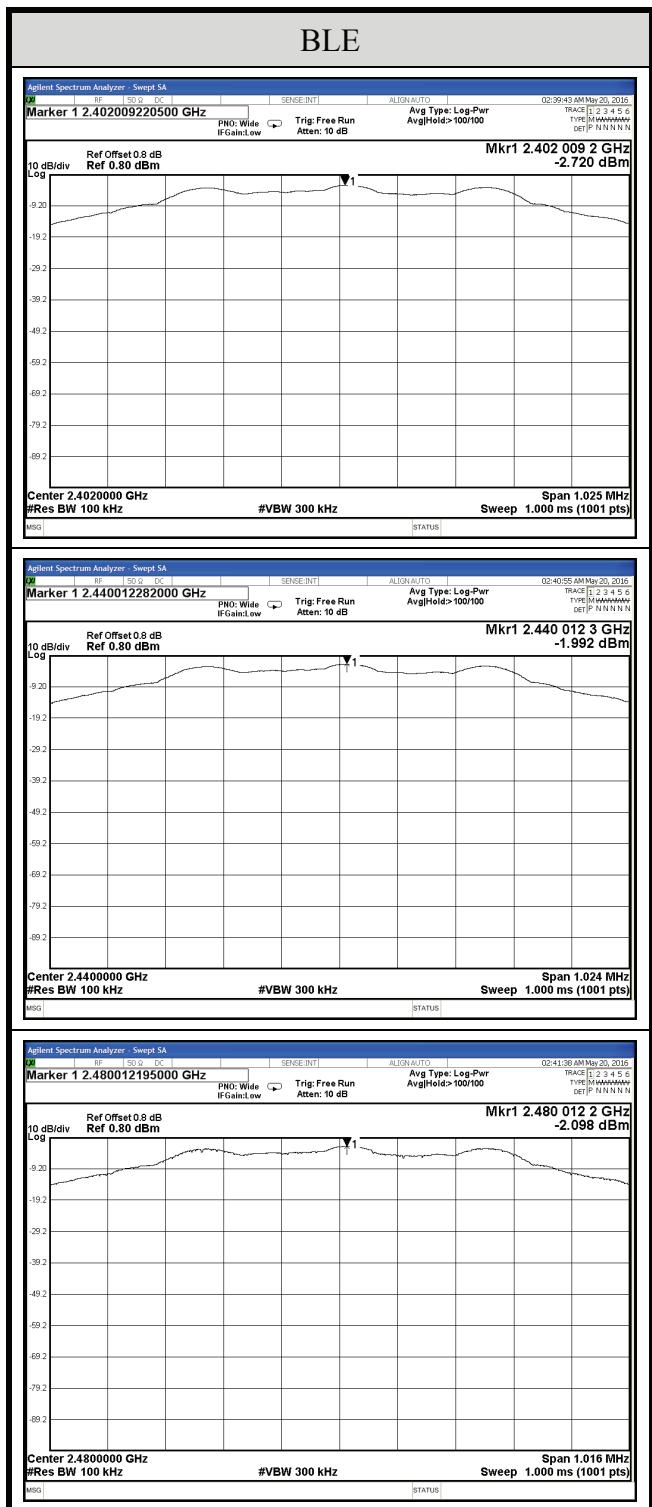
802.11n-HT20



802.11n-HT40



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



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