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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: mPAD-7.....)

File Number: CIM1607289

Report Number: EM-F160523

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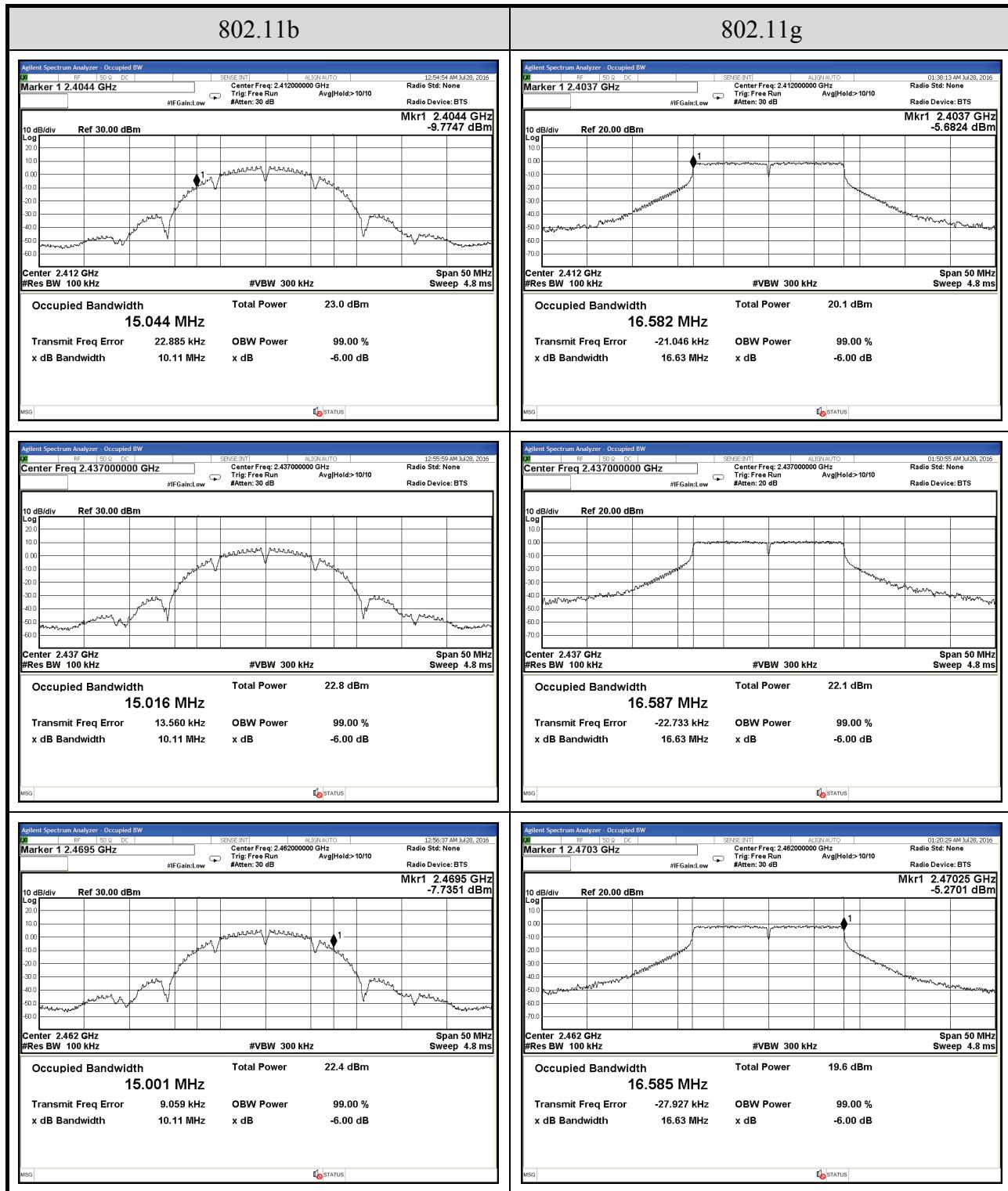
A.1 6dB BANDWIDTH MEASUREMENT

Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	---	Test Voltage	DC 3.7V

A.1.1 6dB Bandwidth Result

Modulation Type	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	10.11	>500kHz
	2437	10.11	
	2462	10.11	
802.11g	2412	16.63	>500kHz
	2437	16.63	
	2462	16.63	
802.11n-HT20	2412	17.87	>500kHz
	2437	17.87	
	2462	17.86	
802.11n-HT40	2422	36.53	>500kHz
	2437	36.55	
	2452	36.54	
BLE	2402	0.8015	>500kHz
	2440	0.8003	
	2480	0.8005	

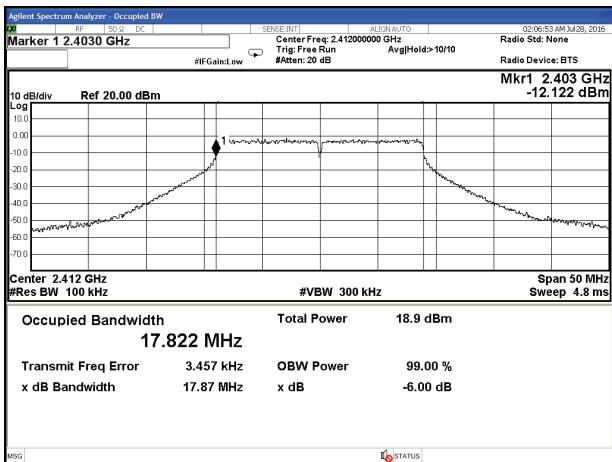
A.1.2 Measurement Plots



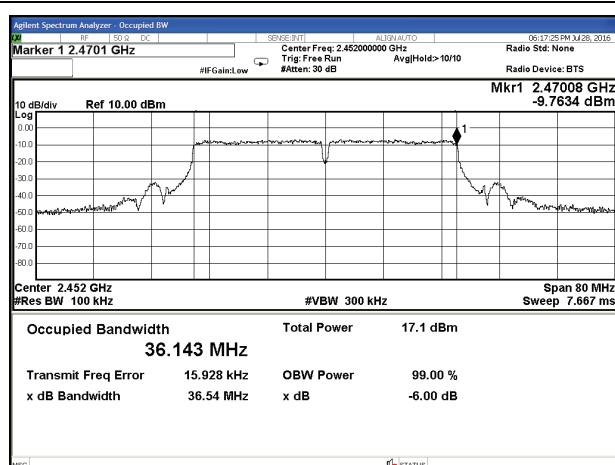
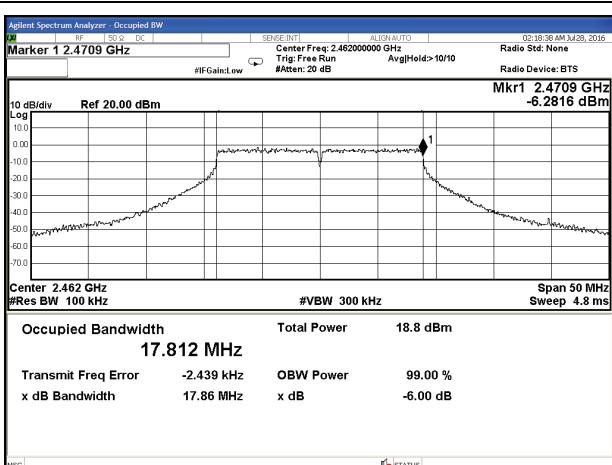
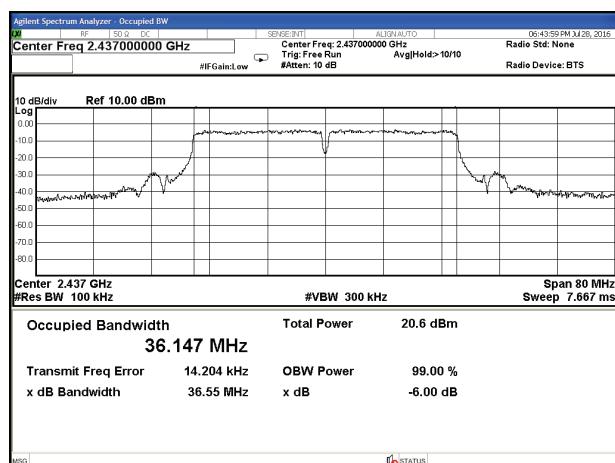
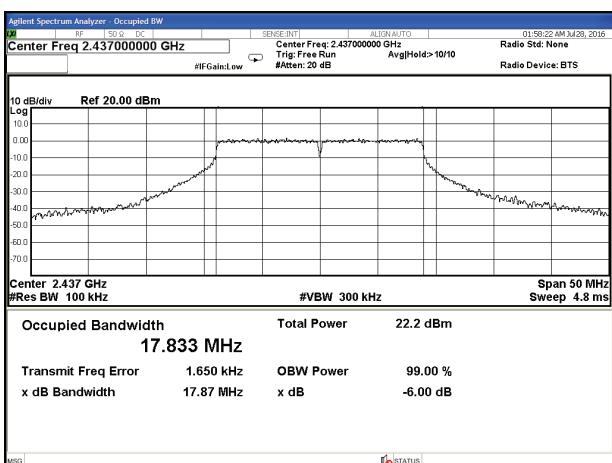
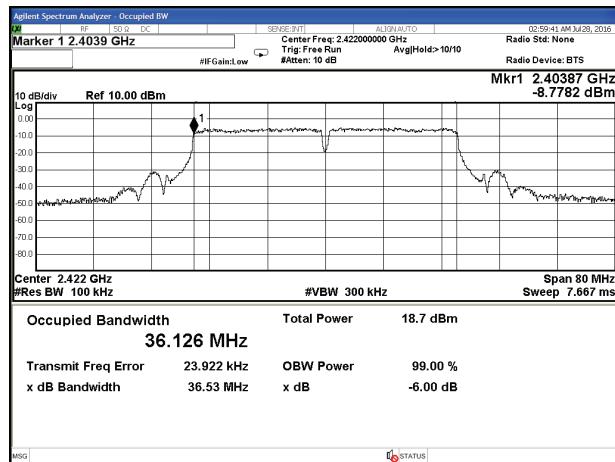
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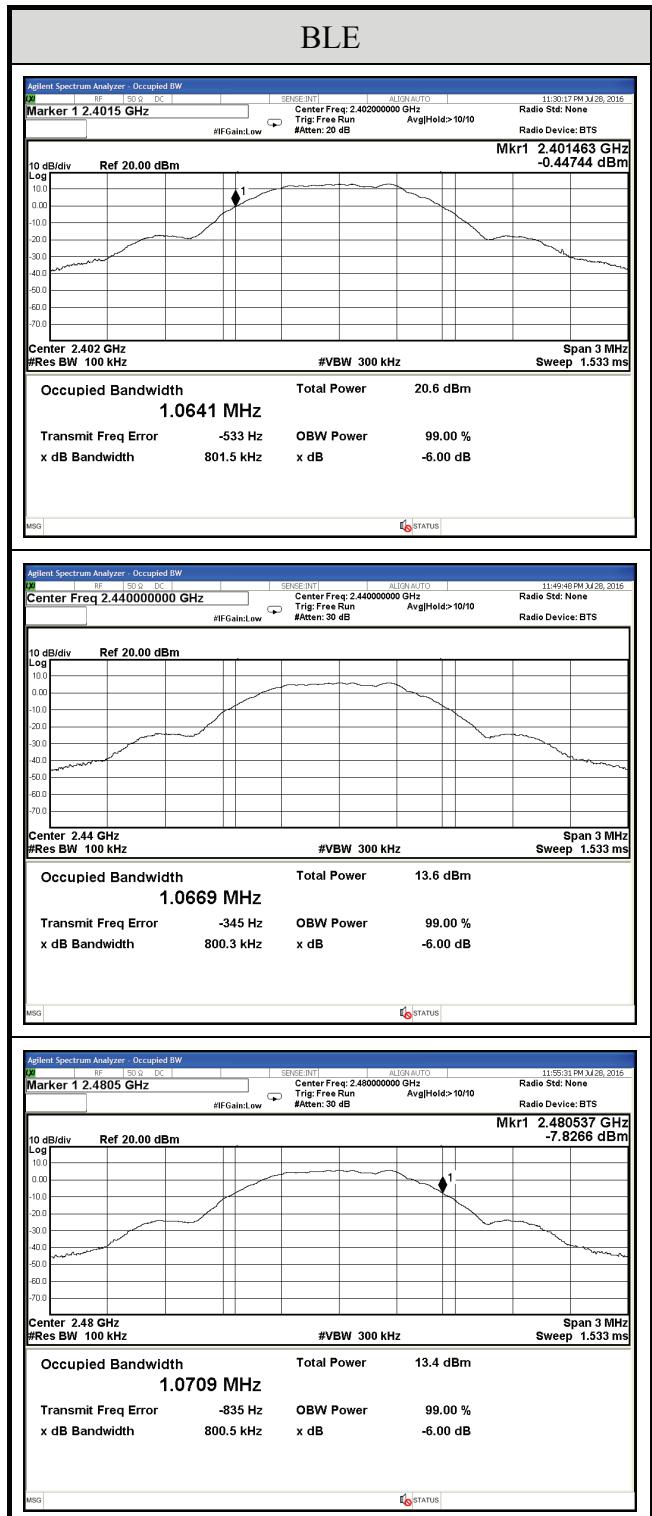
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802.11n-HT20



802.11n-HT40





A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/07/28	Temp./Hum.	25°C /58%
Cable Loss	---	Test Voltage	DC 3.7V

A.2.1 Peak Output Power

Modulation Type	Centre Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	
802.11b	2412	18.37	0.068707	< 30dBm (1W)
	2437	18.13	0.065013	
	2462	17.94	0.062230	
802.11g	2412	22.58	0.181134	
	2437	23.29	0.213304	
	2462	22.51	0.178238	
802.11n-HT20	2412	21.36	0.136773	
	2437	23.16	0.207014	
	2462	21.59	0.144212	
802.11n-HT40	2422	21.68	0.147231	
	2437	22.57	0.180717	
	2452	21.51	0.141579	

Note: The results have been included cable loss.

Modulation Type	Centre Frequency (MHz)	MAX Output Power		Limit
		(dBm)	(W)	
BLE	2402	7.875	0.006131	< 30dBm (1W)
	2440	8.298	0.006758	
	2480	8.095	0.006449	

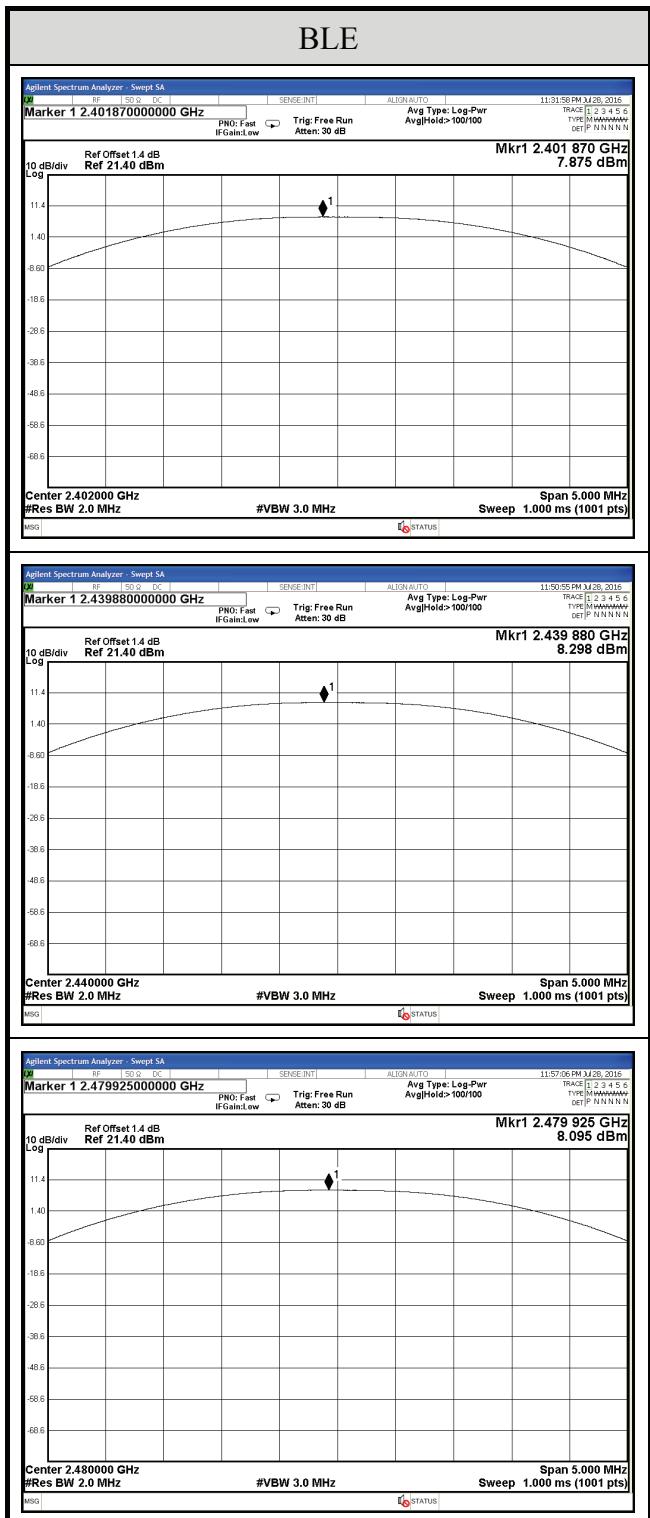
Note: The results have been included cable loss.

A.2.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Average Output Power		Limit
		(dBm)	(W)	
802.11b	2412	16.45	0.044157	< 30dBm (1W)
	2437	16.37	0.043351	
	2462	16.02	0.039994	
802.11g	2412	14.36	0.027290	
	2437	16.27	0.042364	
	2462	14.22	0.026424	
802.11n-HT20	2412	13.22	0.020989	
	2437	16.22	0.041879	
	2462	13.31	0.021429	
802.11n-HT40	2422	13.27	0.021232	
	2437	14.75	0.029854	
	2452	13.01	0.019999	

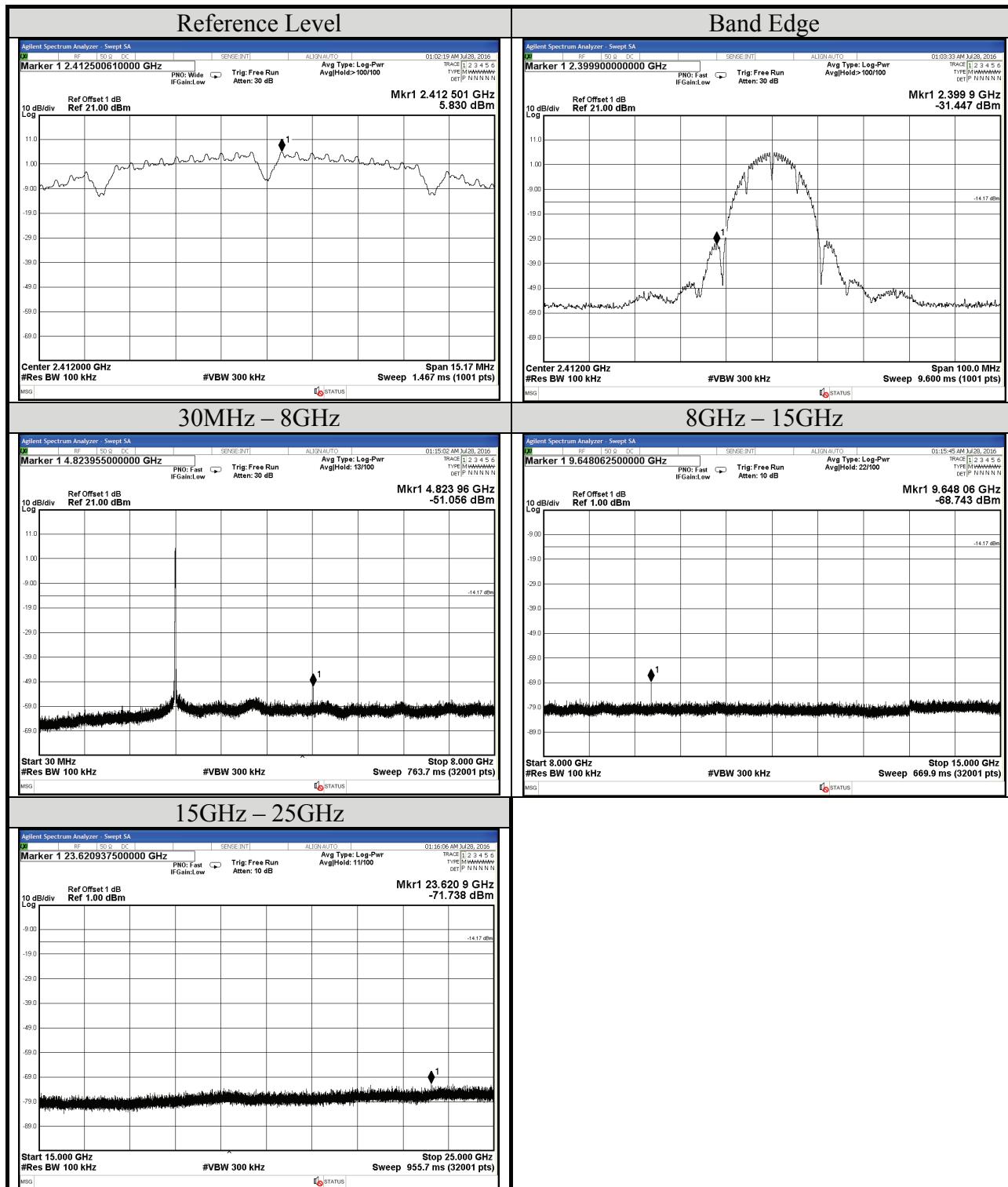
Note: The results have been included cable loss.

A.2.3 Measurement Plots



A.3 EMISSION LIMITATIONS MEASUREMENT

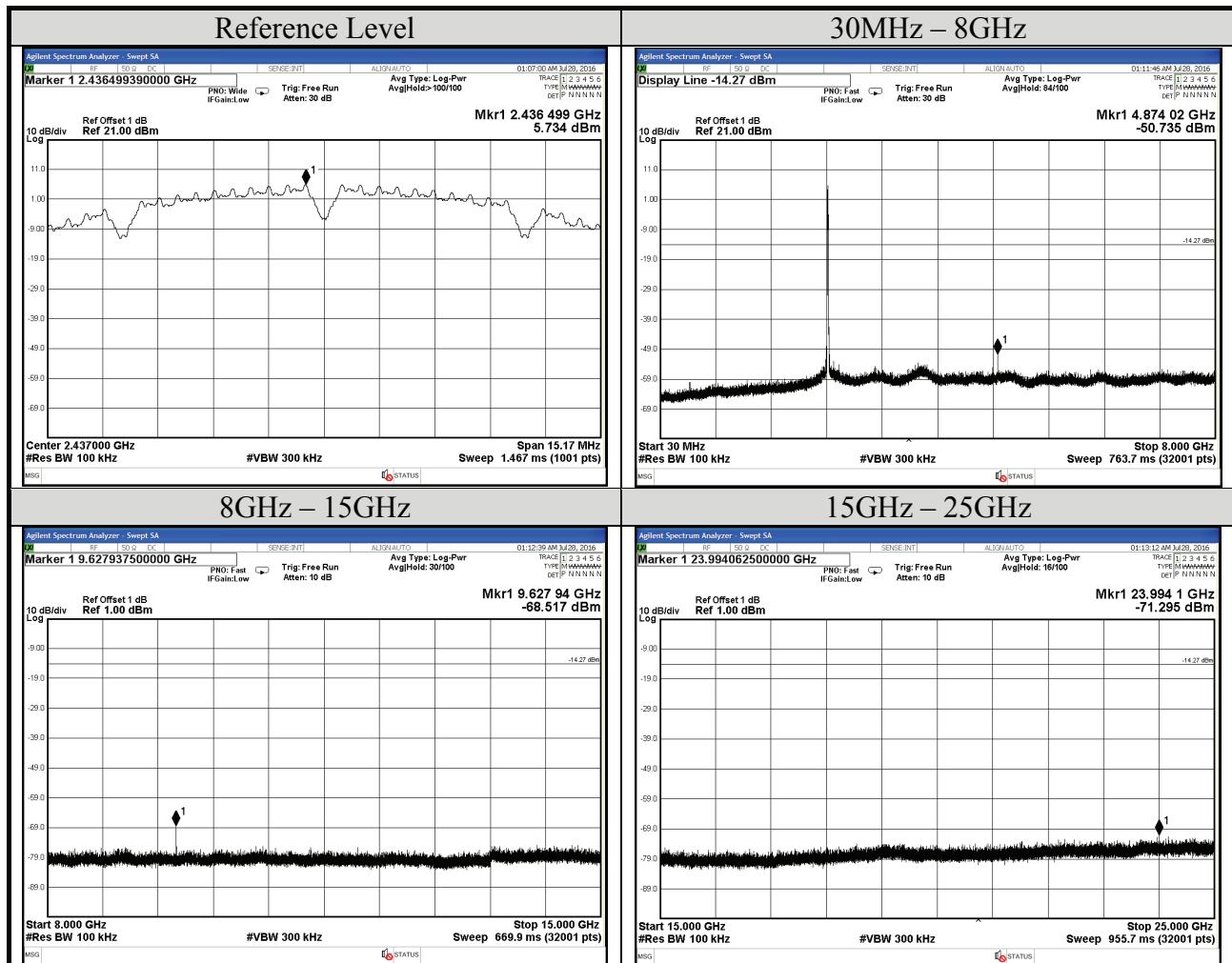
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



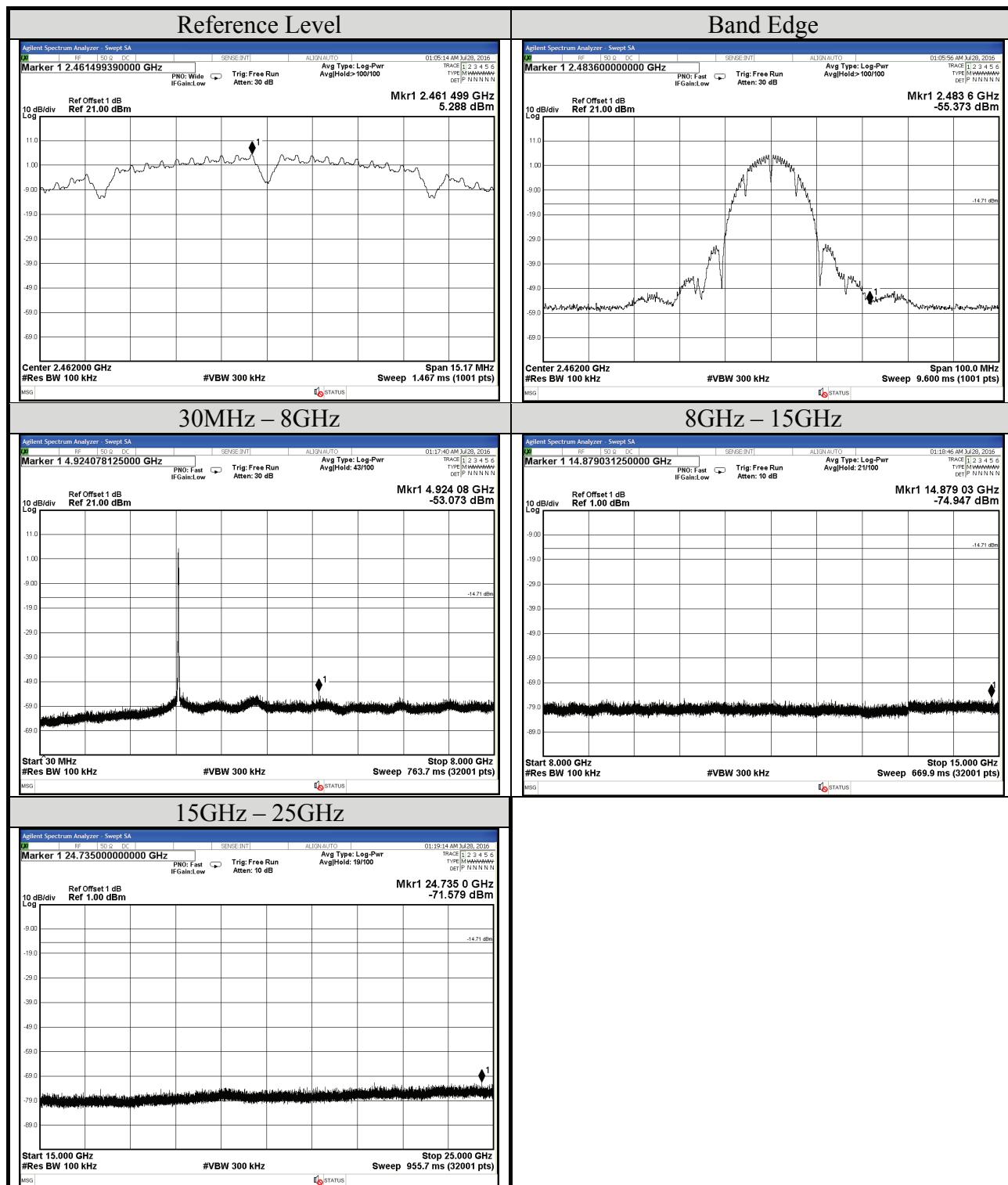
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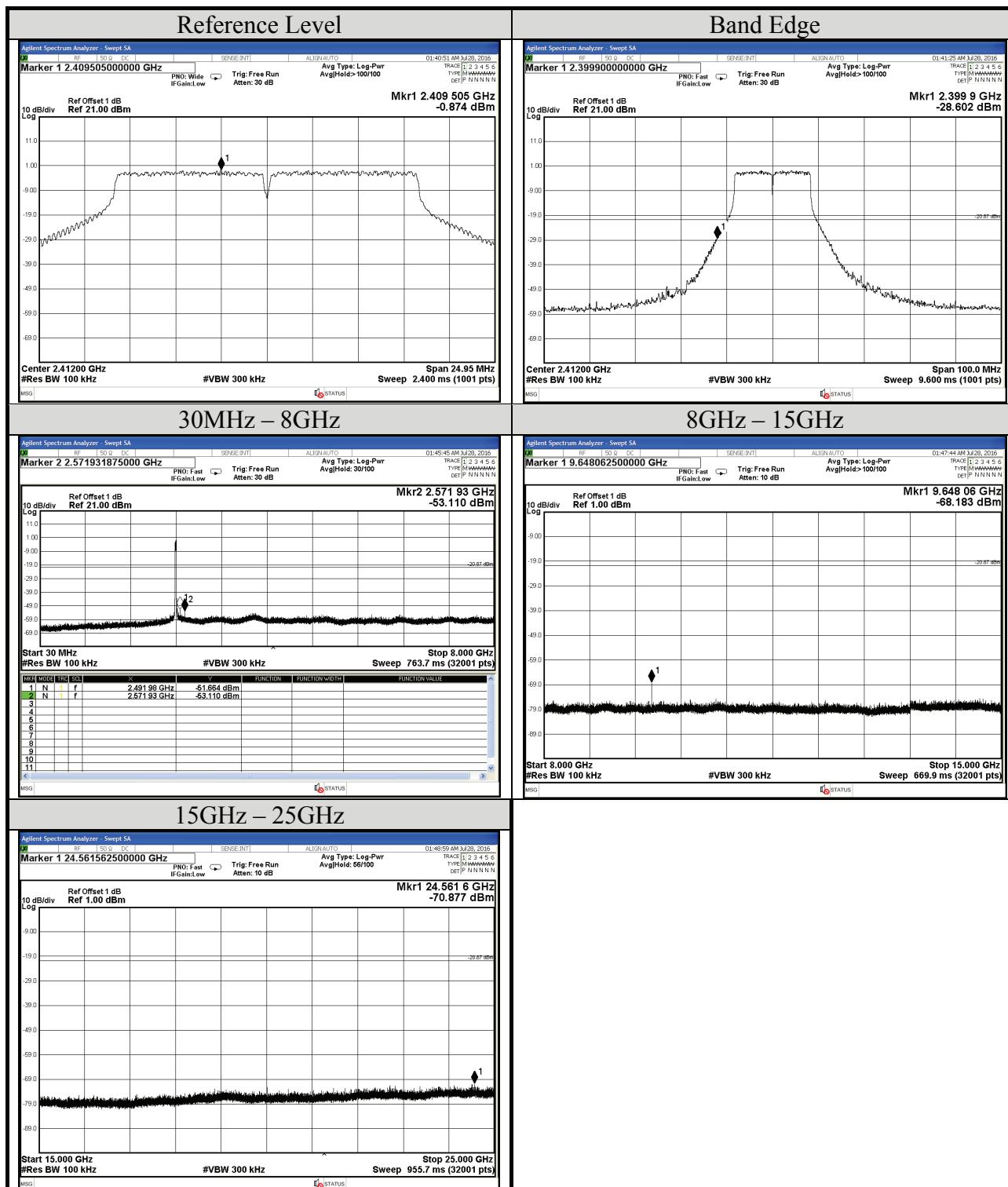
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.3V
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



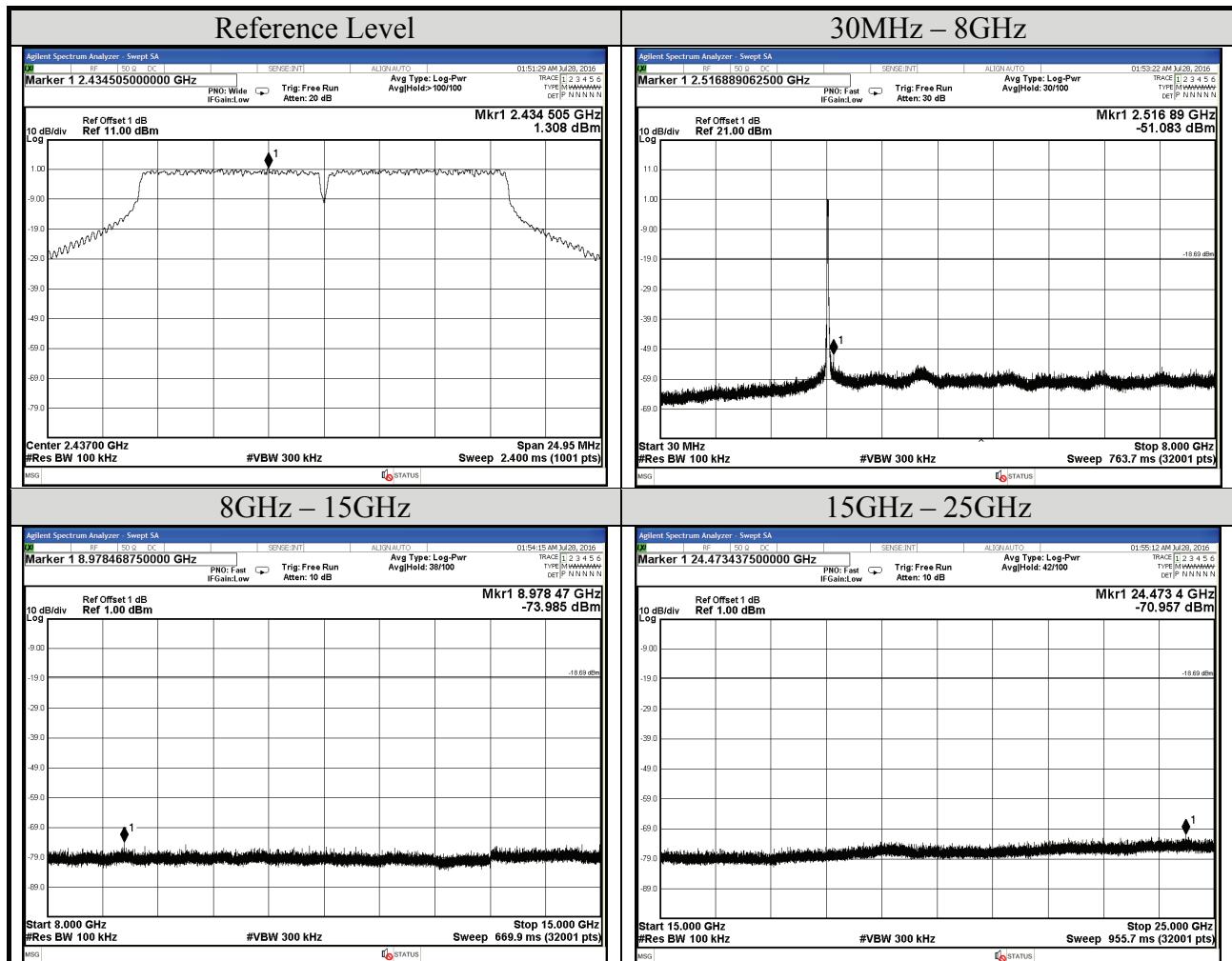
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



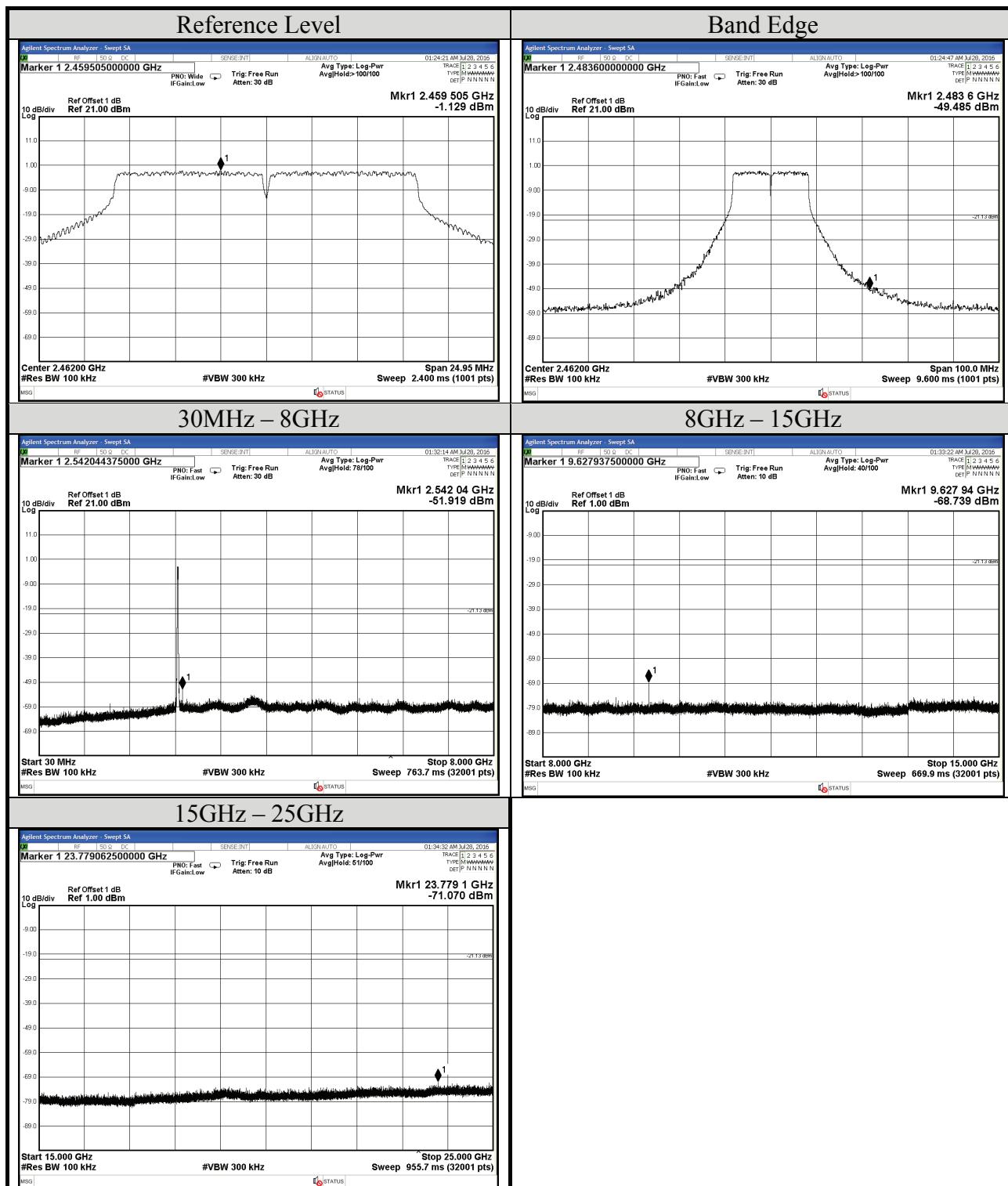
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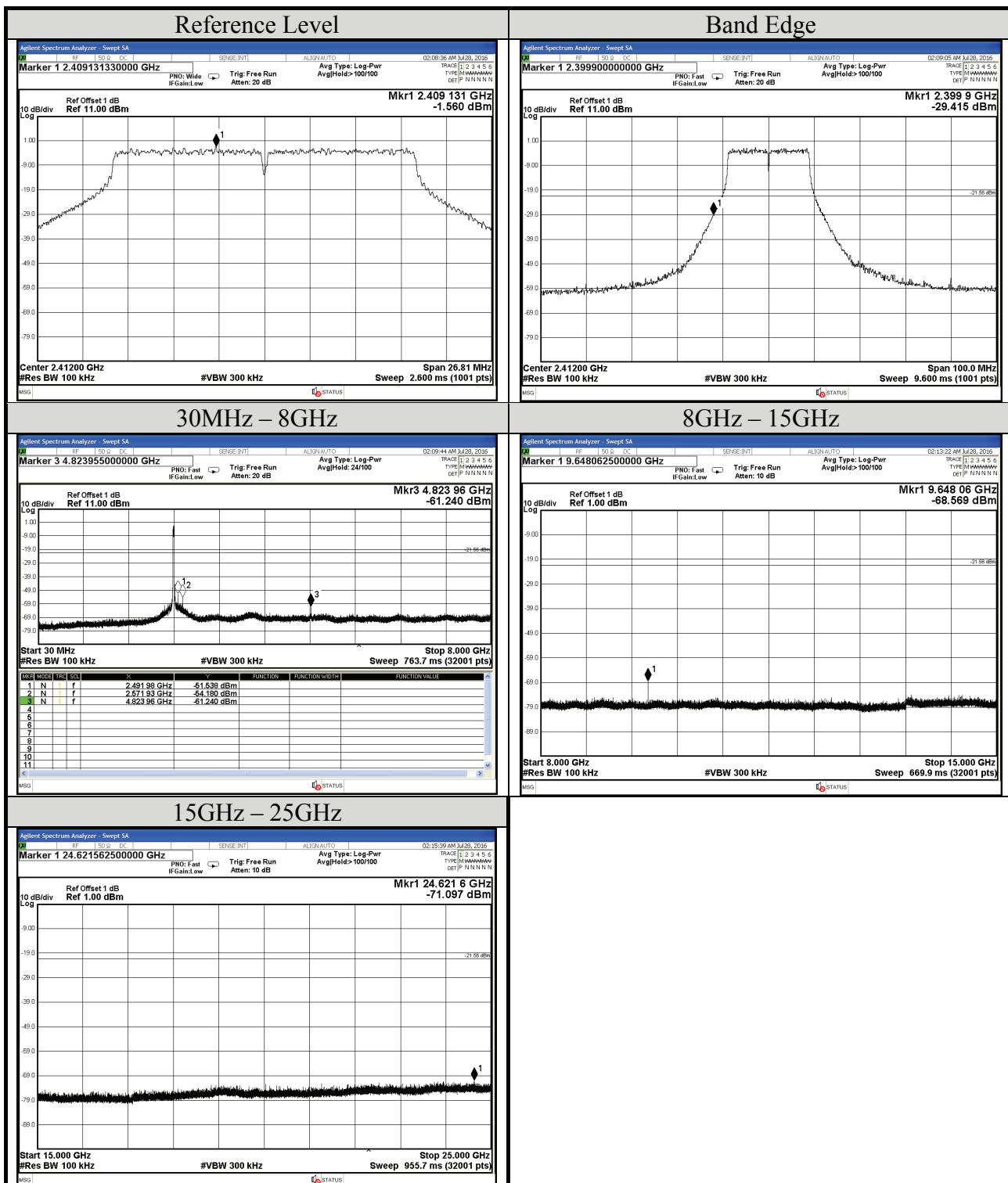
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



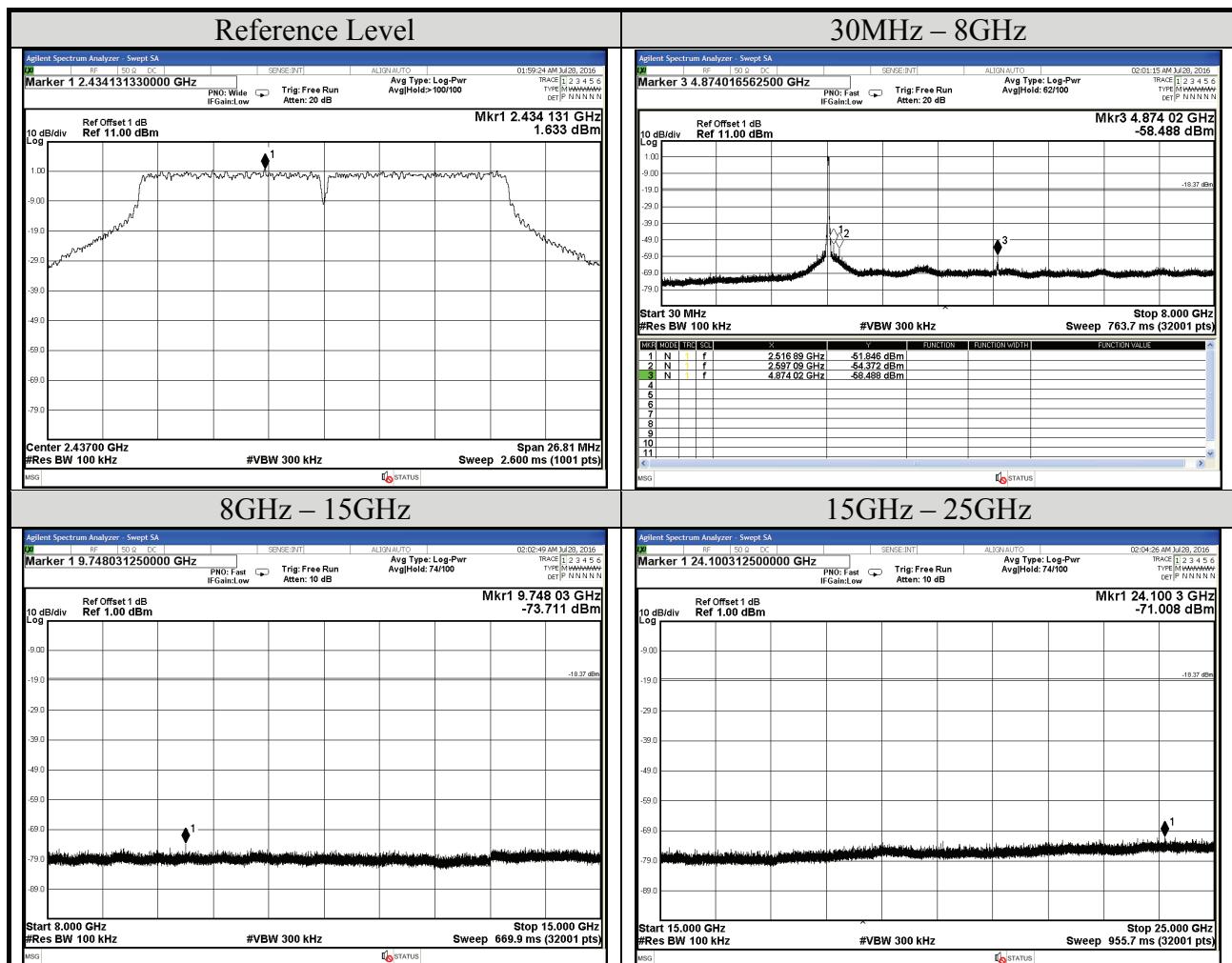
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



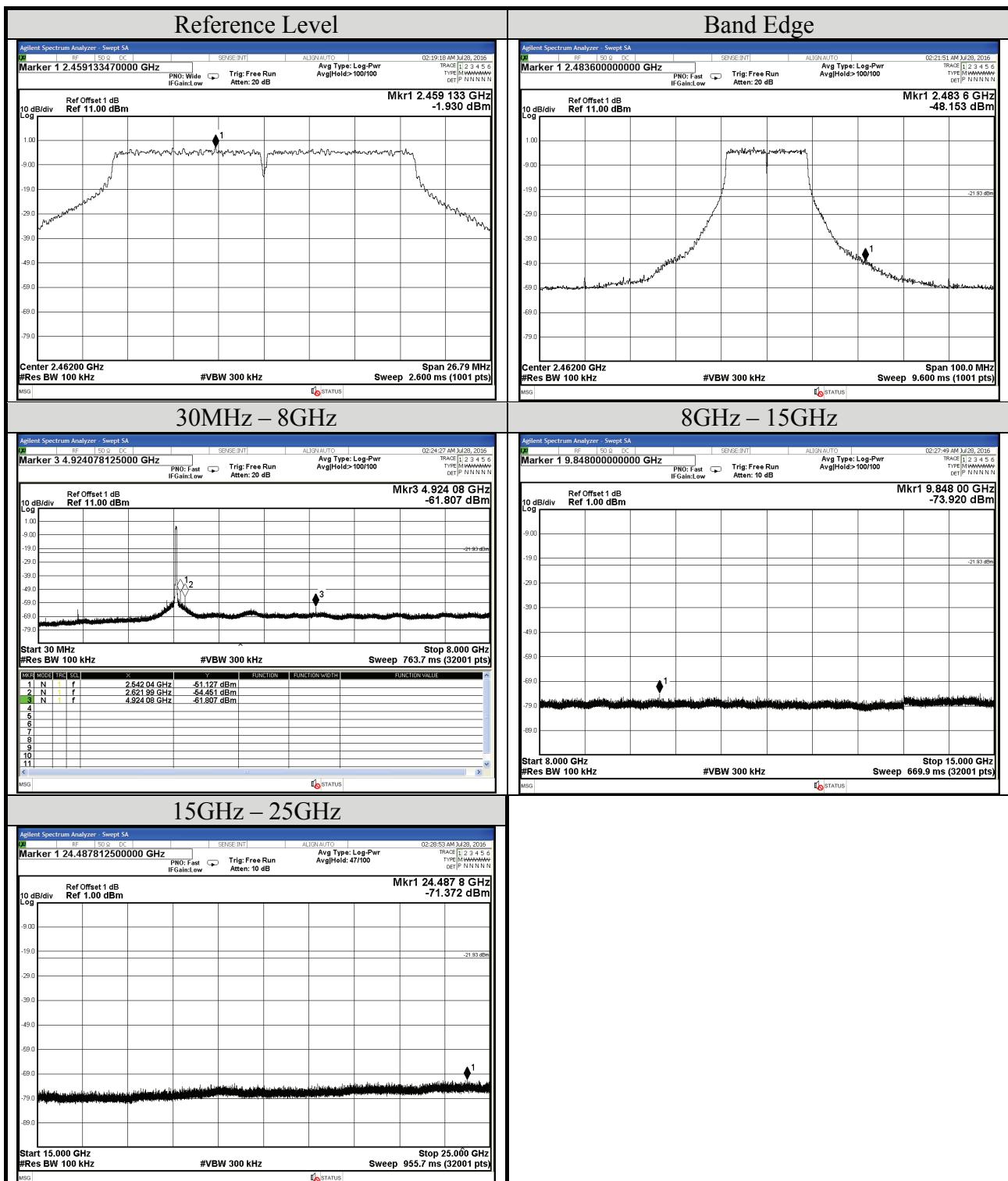
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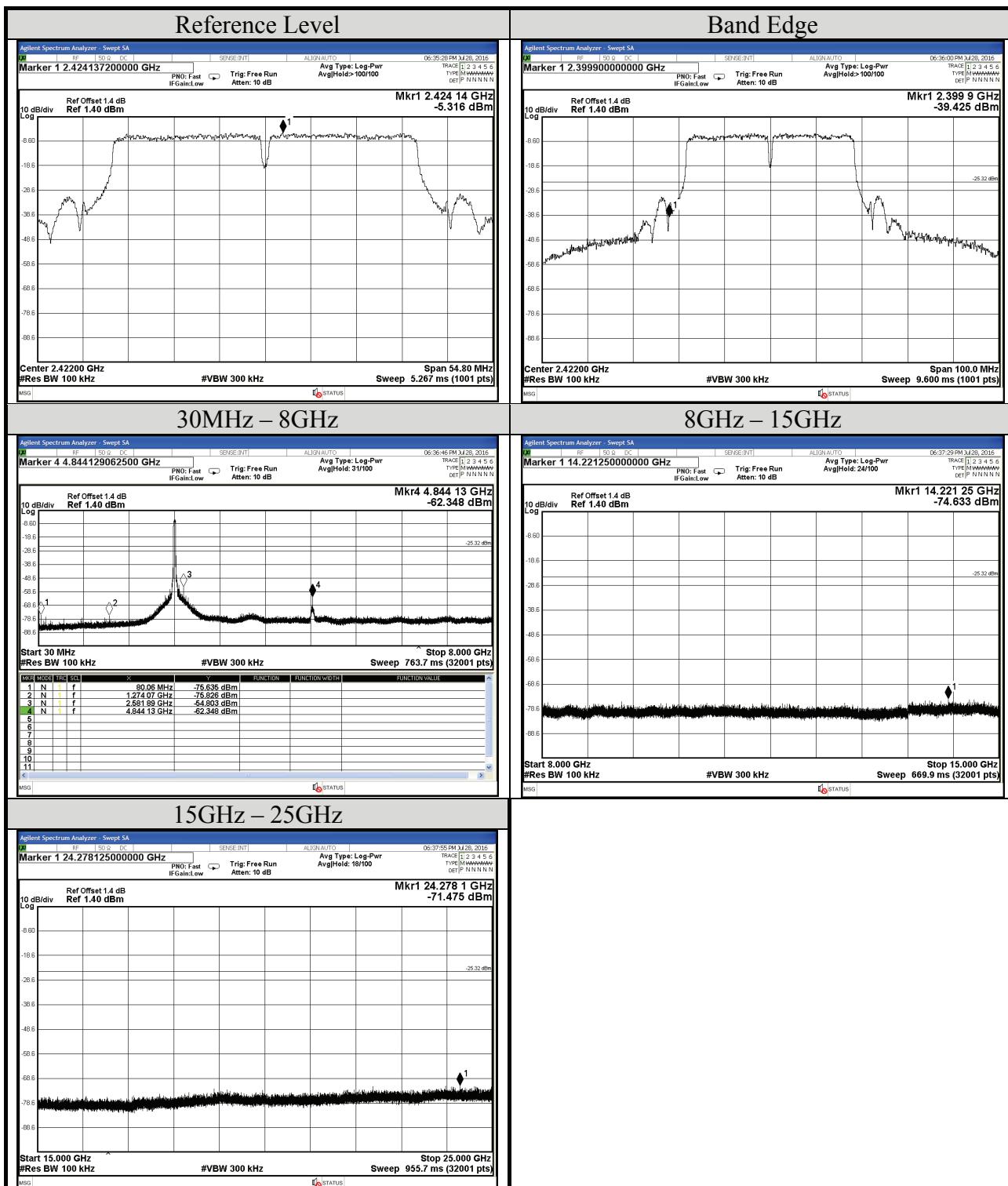
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1dB	Test Voltage	DC 3.7V
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



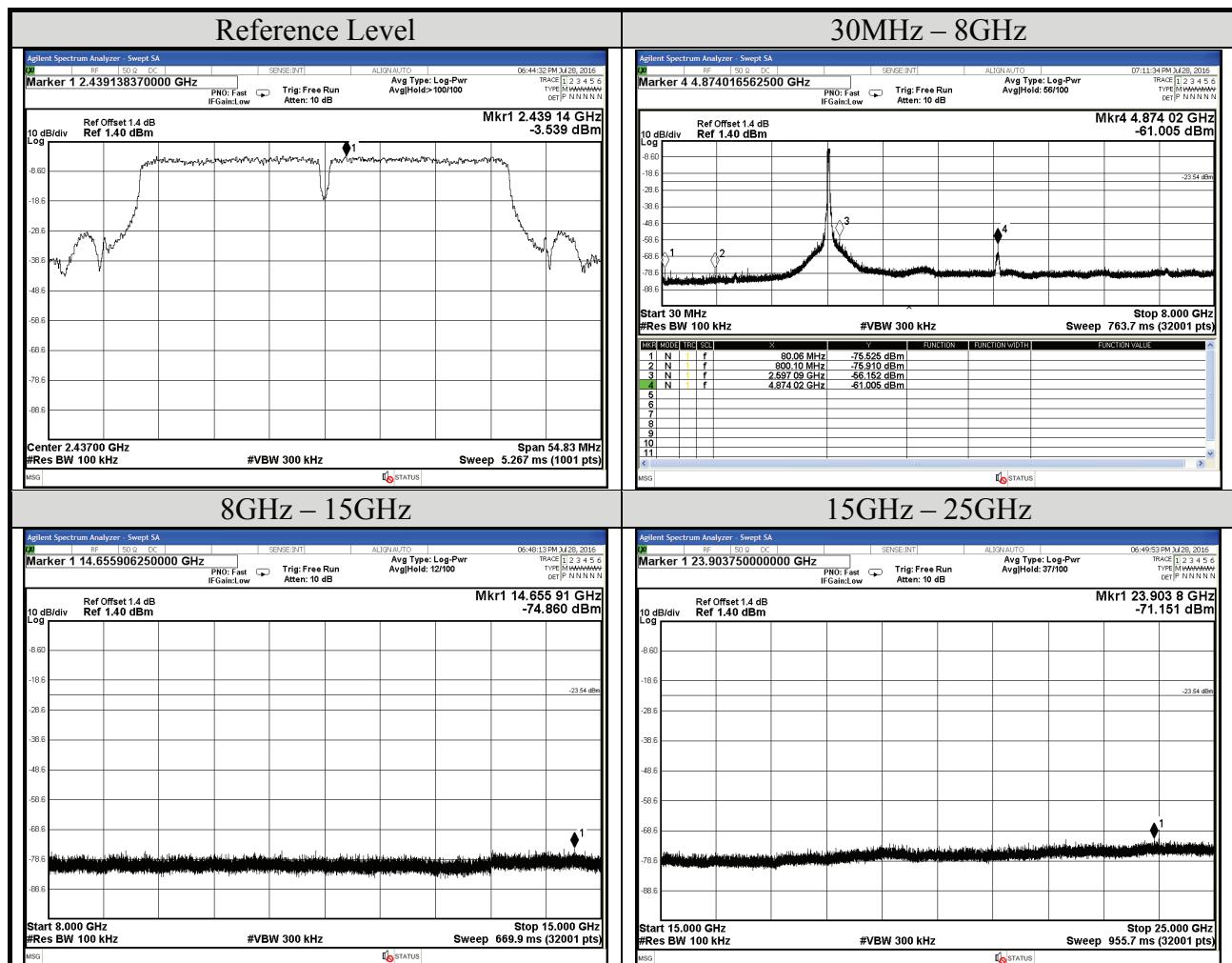
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.7V
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



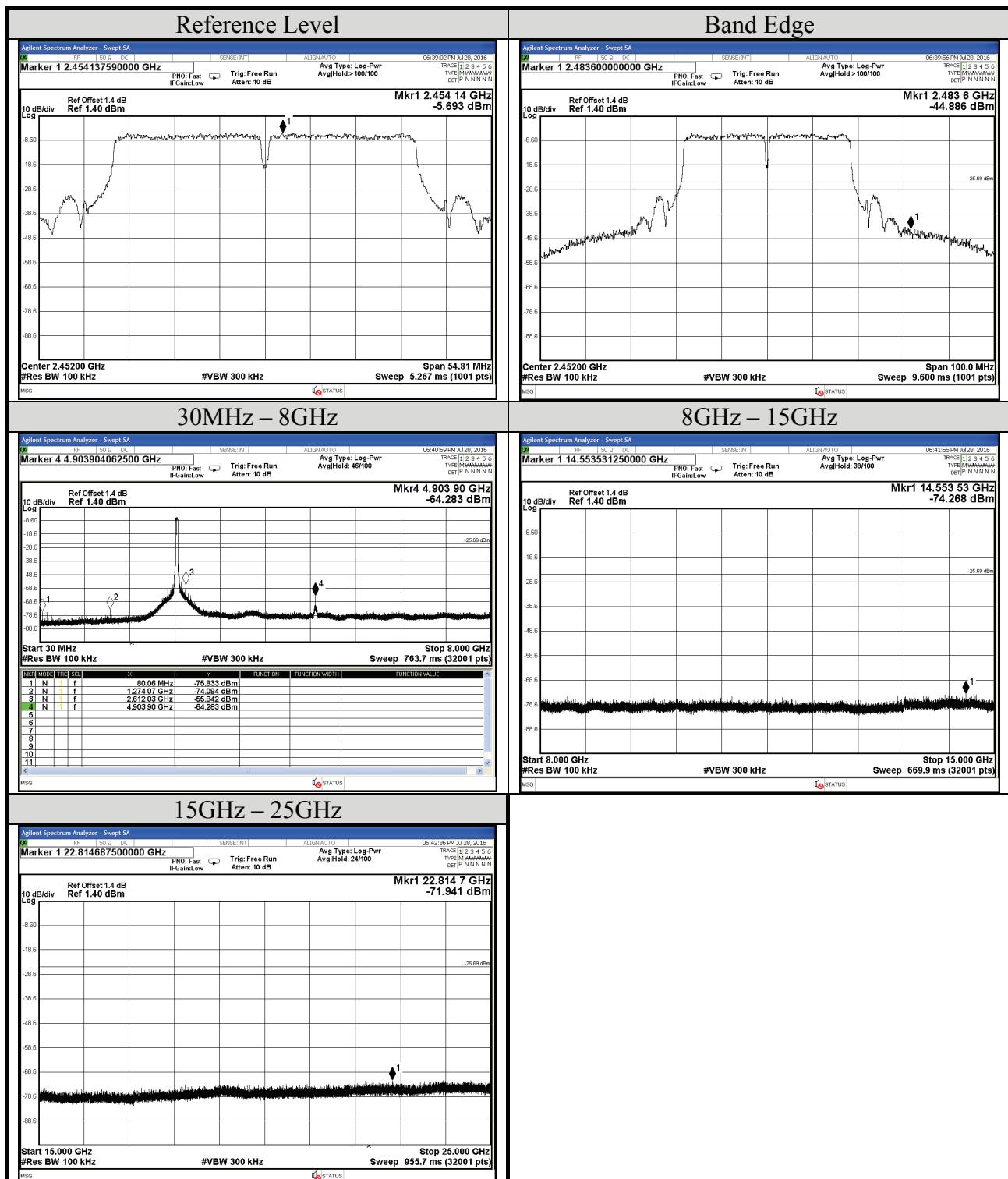
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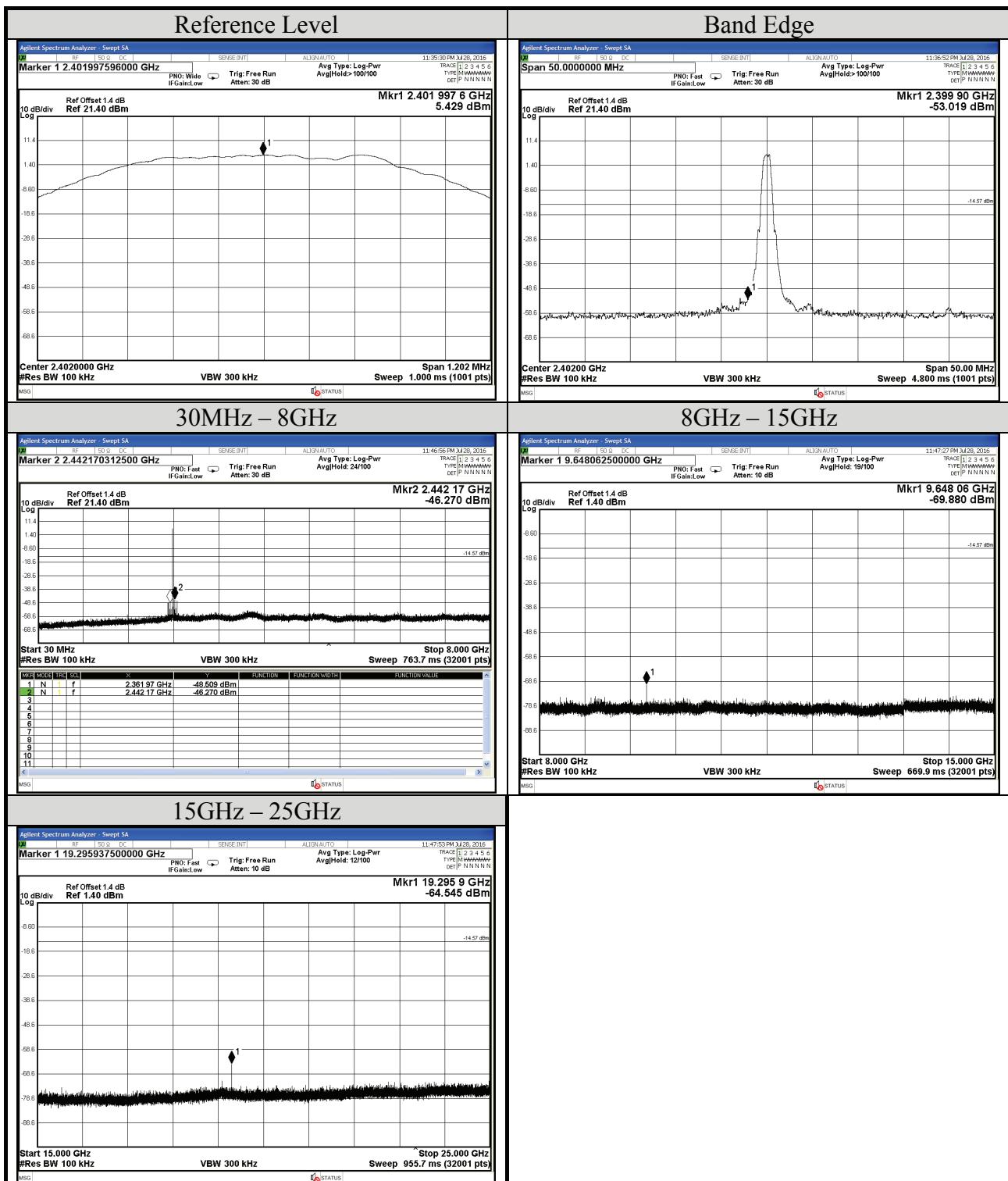
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.7V
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



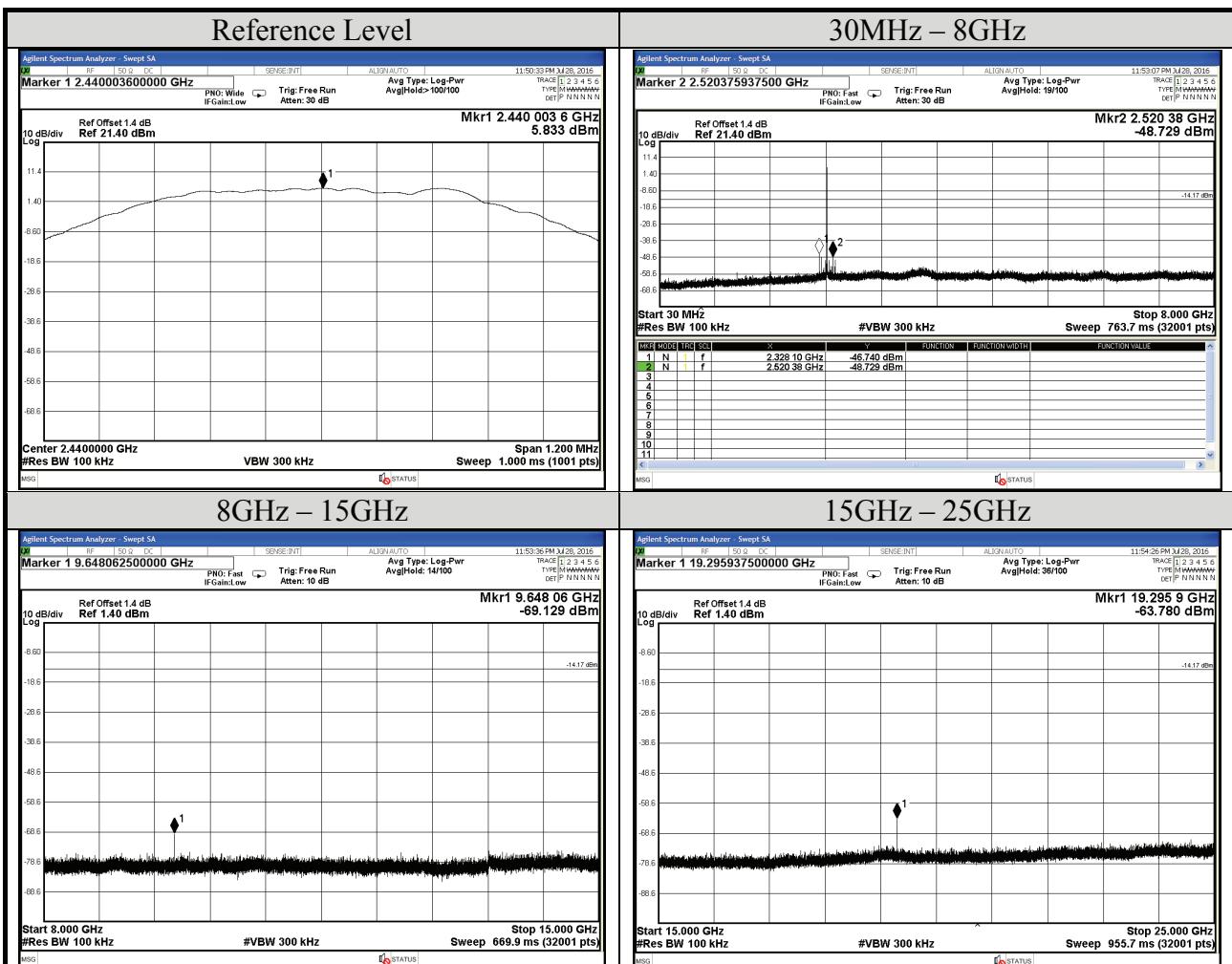
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.7V
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			0



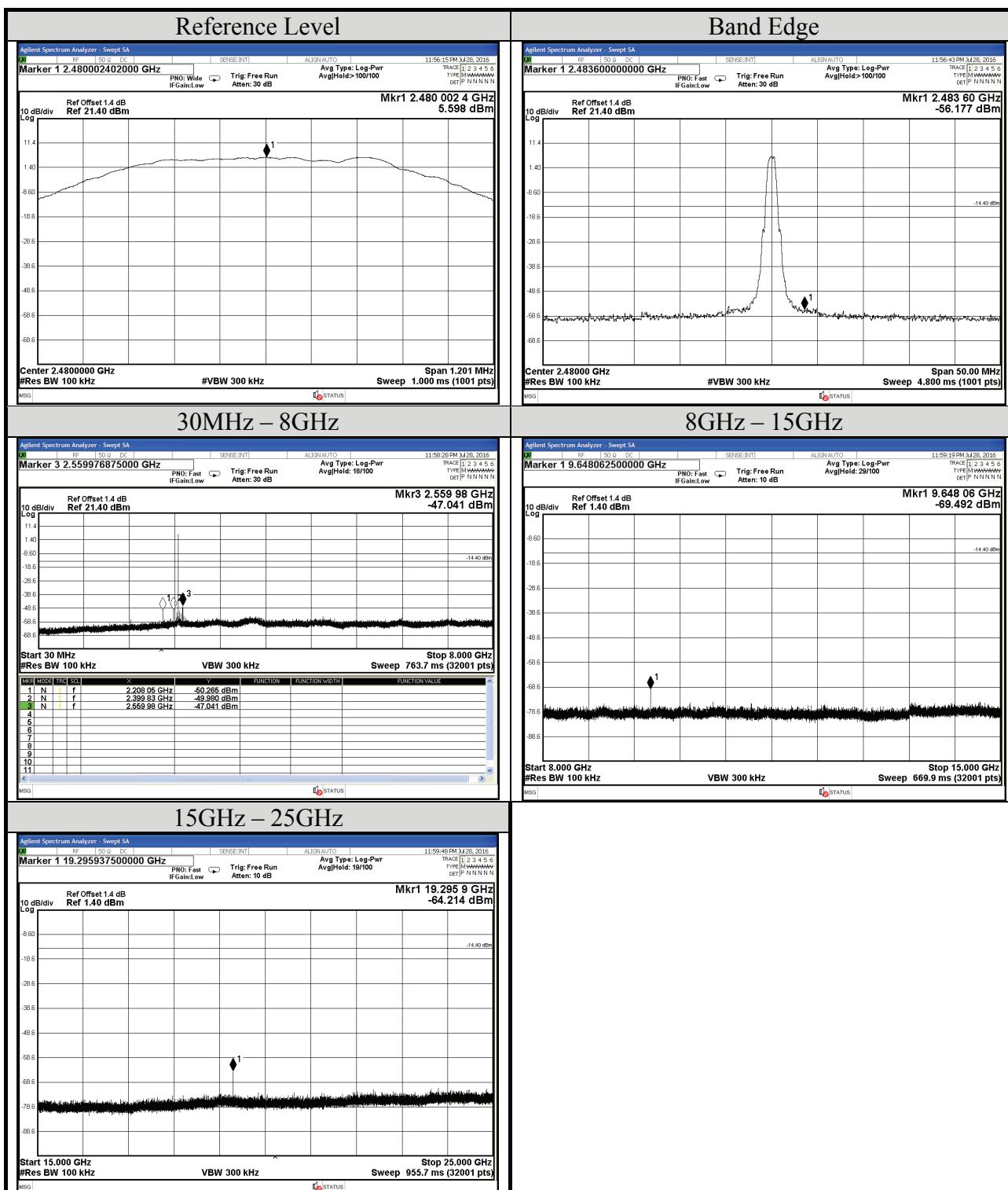
Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.7V
Mode	BLE	Frequency	TX 2402MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.3V
Mode	BLE	Frequency	TX 2440MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



Test Date	2016/07/28	Temp./Hum.	25°C/58%
Cable Loss	1.4dB	Test Voltage	DC 3.7V
Mode	BLE	Frequency	TX 2480MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A



A.4 POWER SPECTRAL DENSITY

Test Date	2016/07/28	Temp./Hum.	25°C /58%
Cable Loss	802.11b/g/n-HT20: 1dB 802.11n-HT40/BLE: 1.4dB	Test Voltage	DC 3.7V
Simultaneous Factor10 log(n) (Note: "n" is antenna number)			N/A

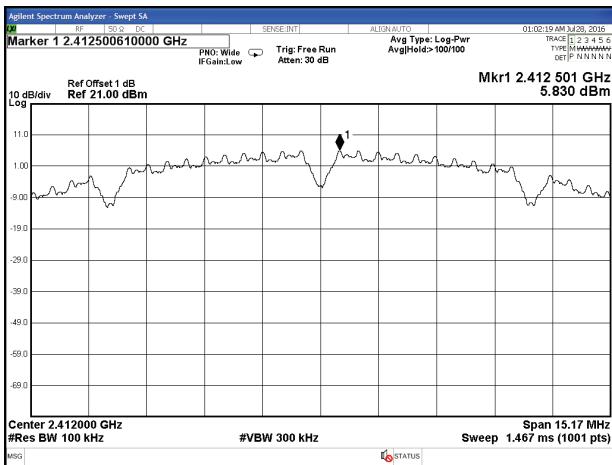
A.4.1 Power Spectral Density Result

Modulation Type	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	5.830	< 8 dBm/3kHz
	2437	5.734	
	2462	5.288	
802.11g	2412	-0.874	< 8 dBm/3kHz
	2437	1.308	
	2462	-1.129	
802.11n-HT20	2412	-1.560	< 8 dBm/3kHz
	2437	1.633	
	2462	-1.930	
802.11n-HT40	2422	-5.316	< 8 dBm/3kHz
	2437	-3.539	
	2452	-5.693	
BLE	2402	5.429	< 8 dBm/3kHz
	2440	5.833	
	2480	5.598	

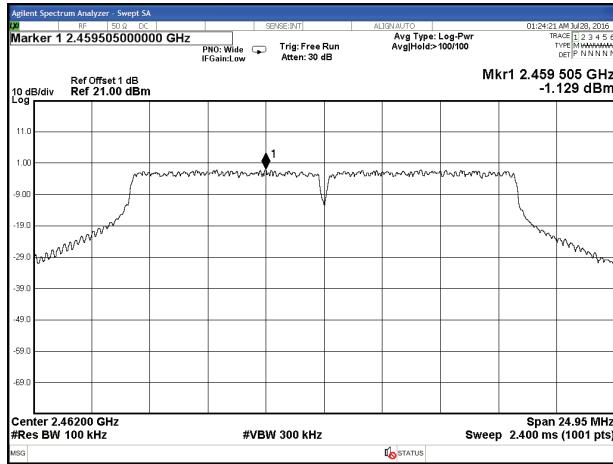
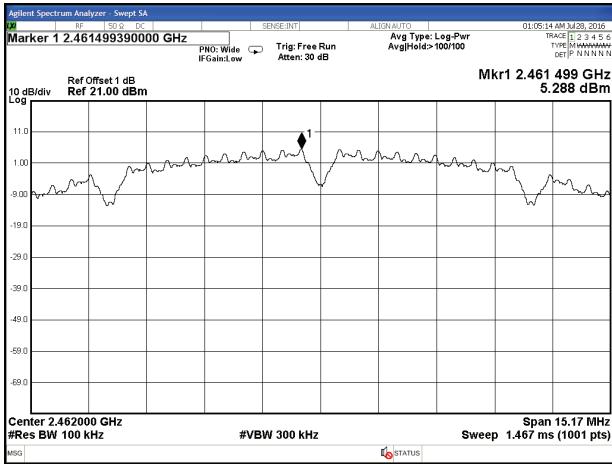
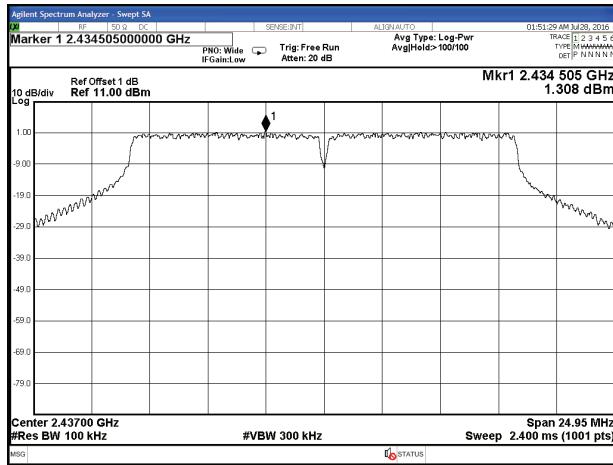
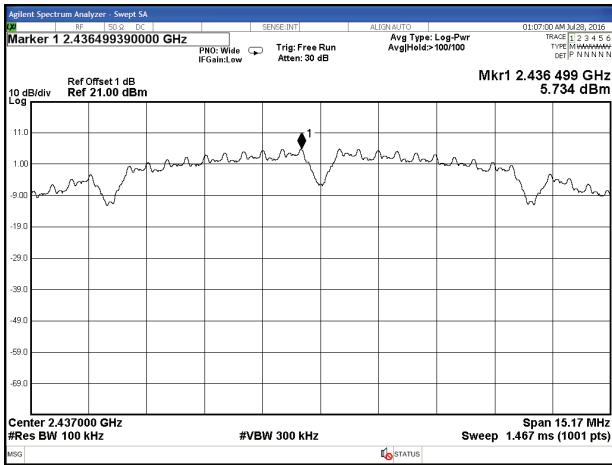
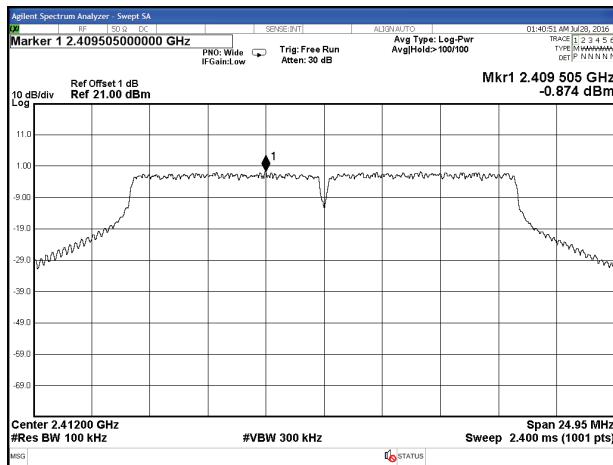
Note: All results have been included cable loss and Simultaneous Factor.

A.4.2 Measurement Plots

802.11b



802.11g

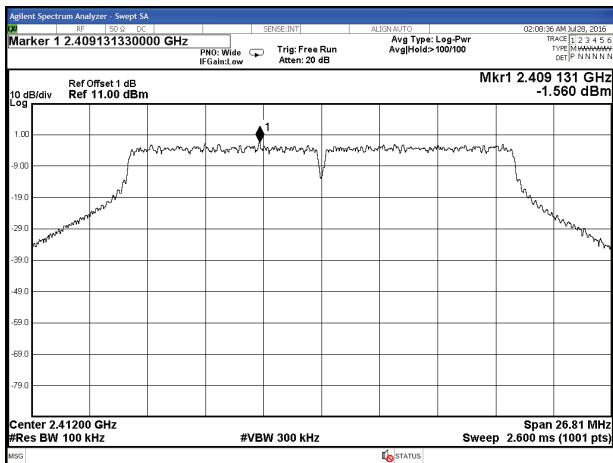


Note: All results have been included cable loss and Simultaneous Factor.

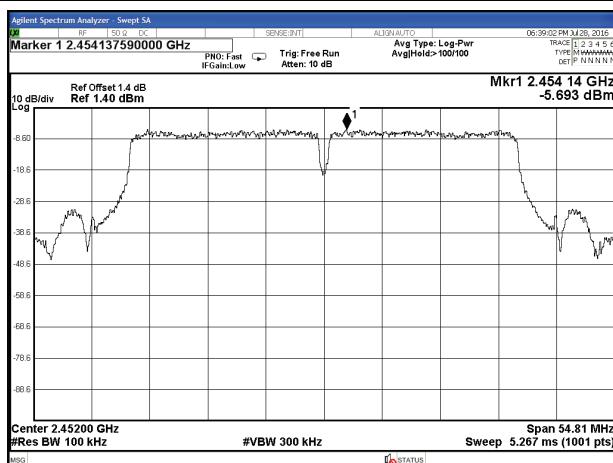
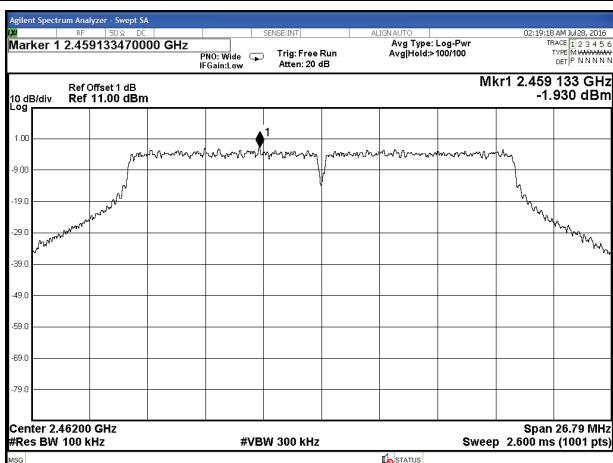
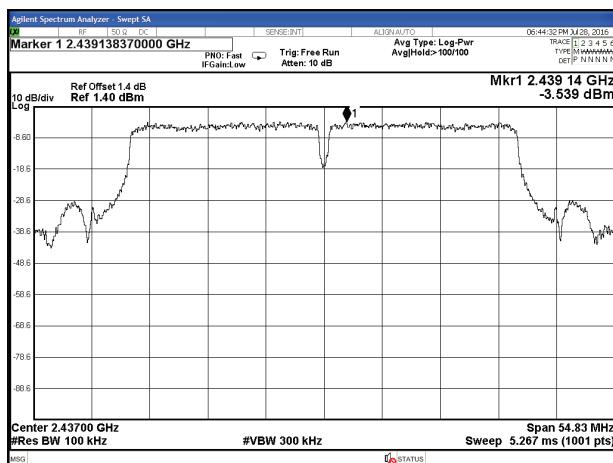
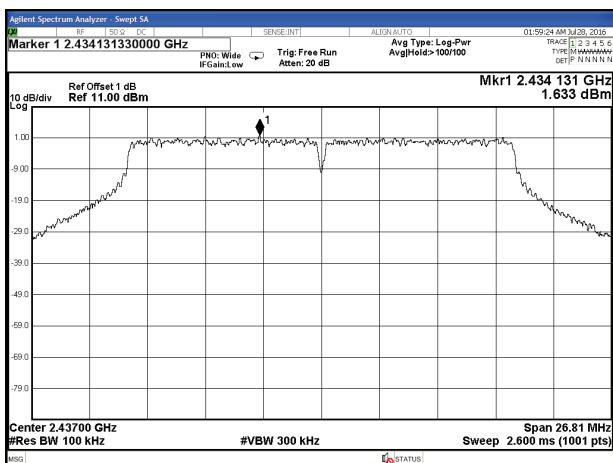
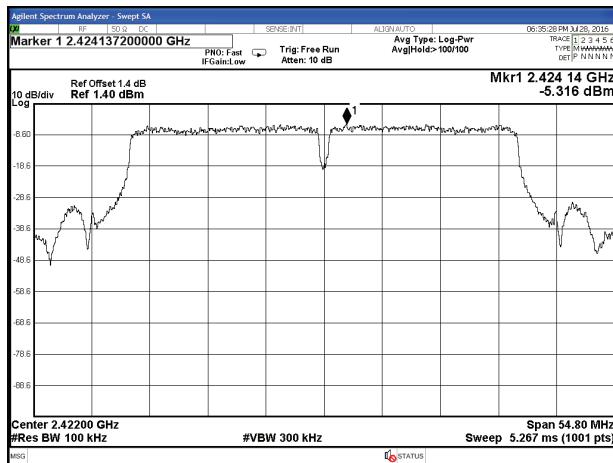
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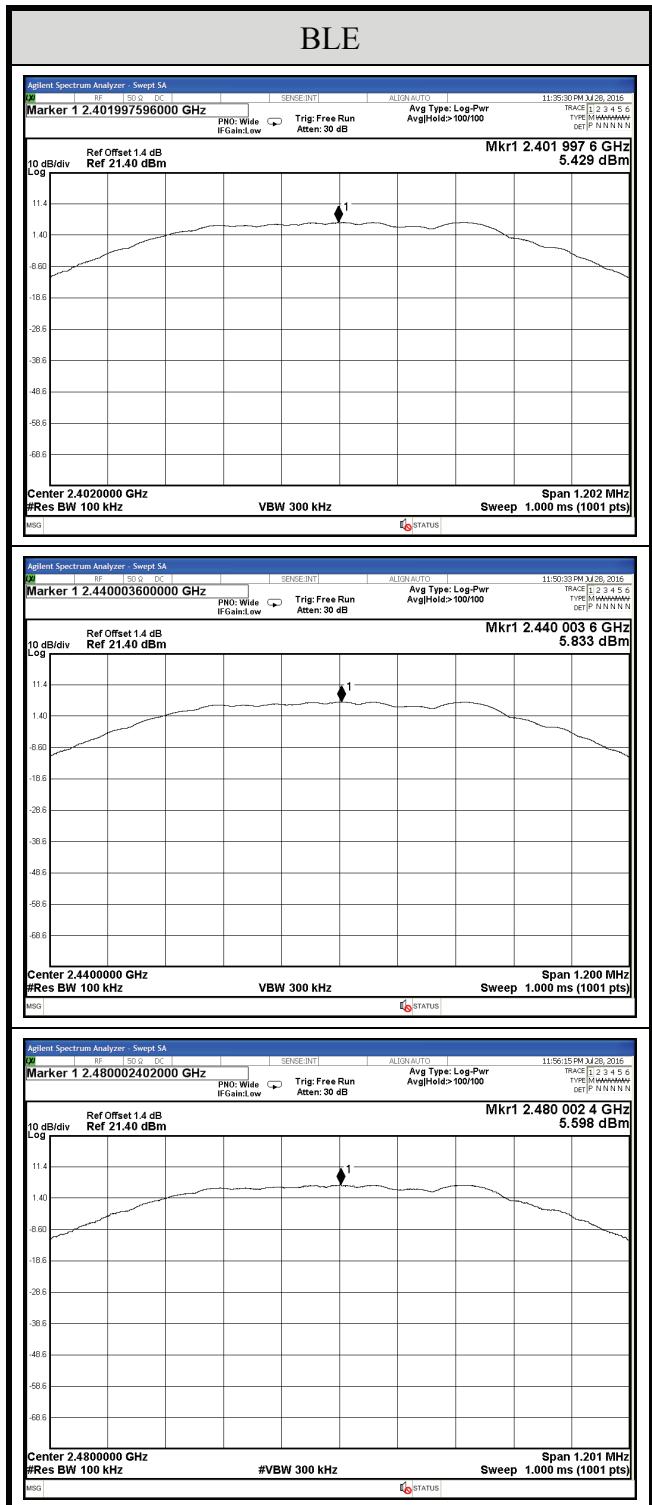
802.11n-HT20



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.