AUDIX Technology Corp.
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APPDNDIX A

TEST PLOTS

(Model: FXE3000-US)

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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 5
A.2.1 Peak Output Power 5
A.2.2 Average Output Power (Reporting only) 5
A.3 EMISSION LIMITATIONS MEASUREMENT 6
A.4 POWER SPECTRAL DENSITY 18
A.4.1 Power Spectral Density Result 18
A.4.2 Measurement Plots 19

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A.1 6dB BANDWIDTH MEASUREMENT

Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V

A.1.1 6dB Bandwidth Result

Modulation Type	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	7.123	>500kHz
	2437	9.108	
	2462	7.558	
802.11g	2412	16.62	
	2437	16.62	
	2462	16.61	
802.11n-HT20	2412	17.83	
	2437	17.83	
	2462	17.85	
802.11n-HT40	2422	36.61	
	2437	36.60	
	2452	36.63	

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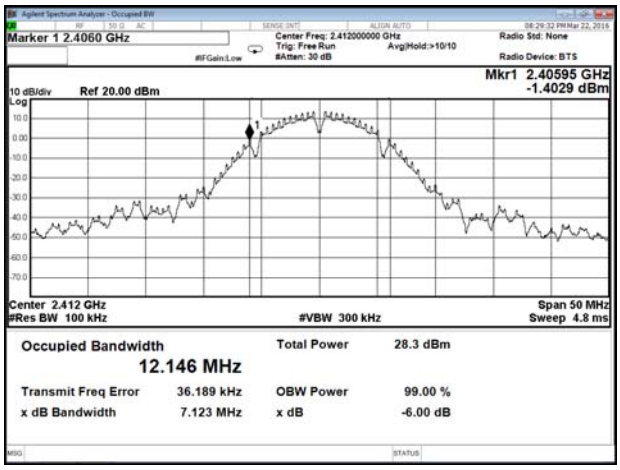
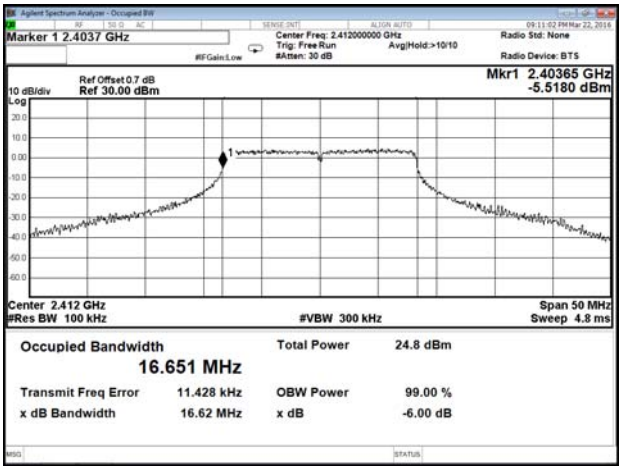
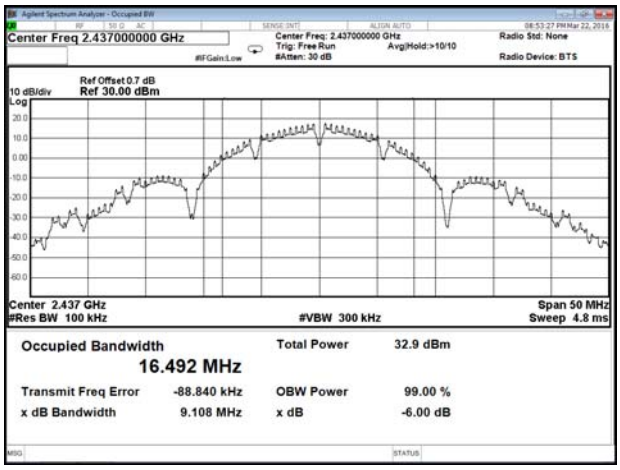
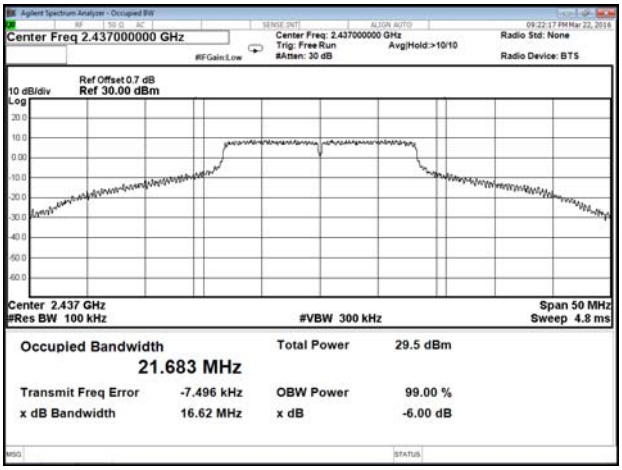
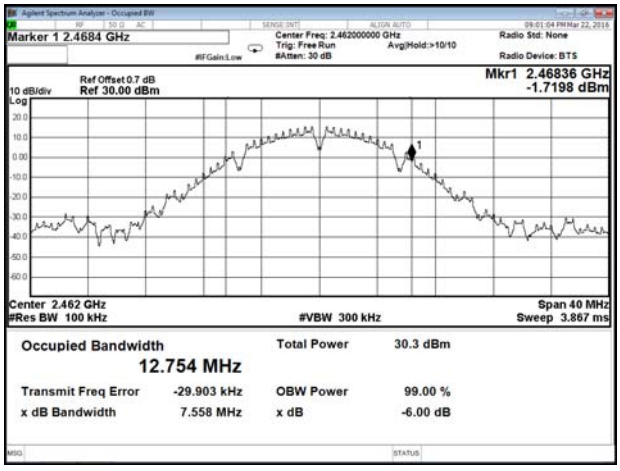
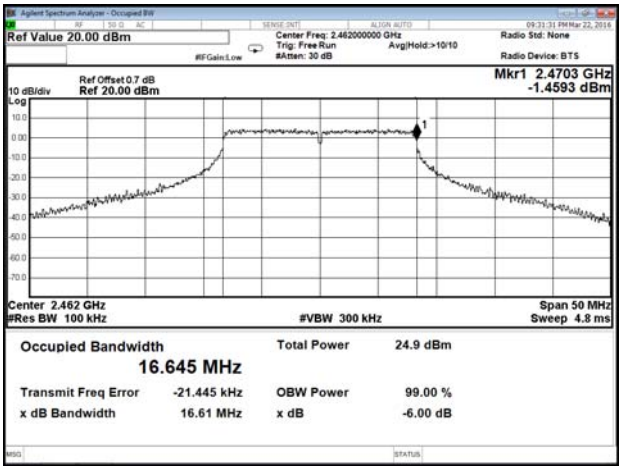
A.1.2 Measurement Plots

802.11b	802.11g
	
	
	

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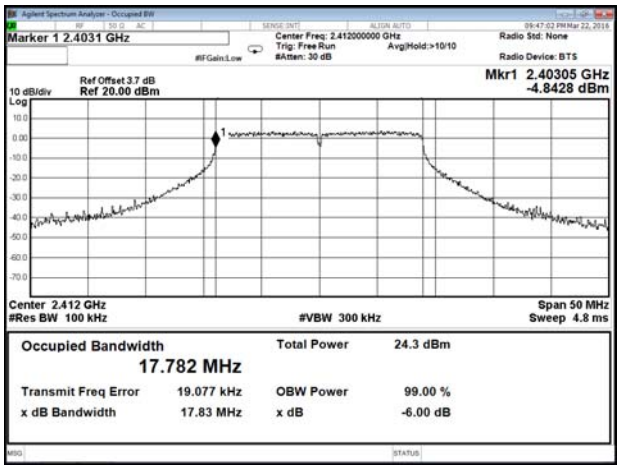
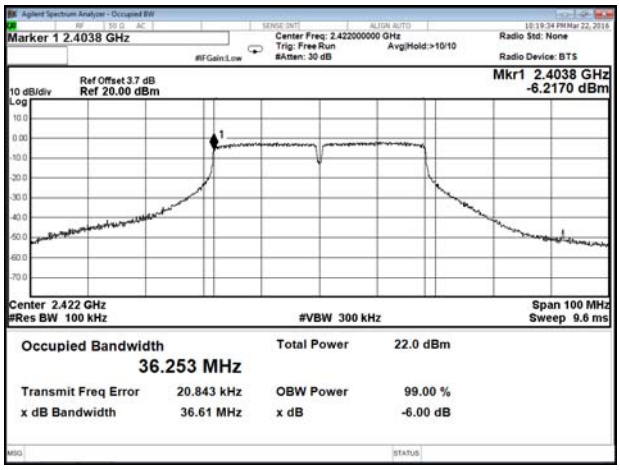
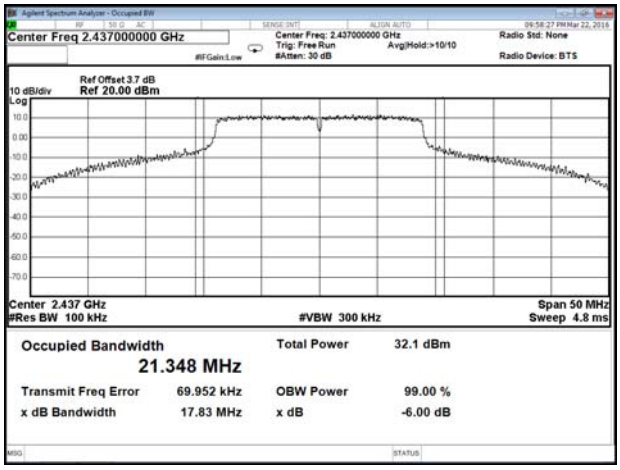
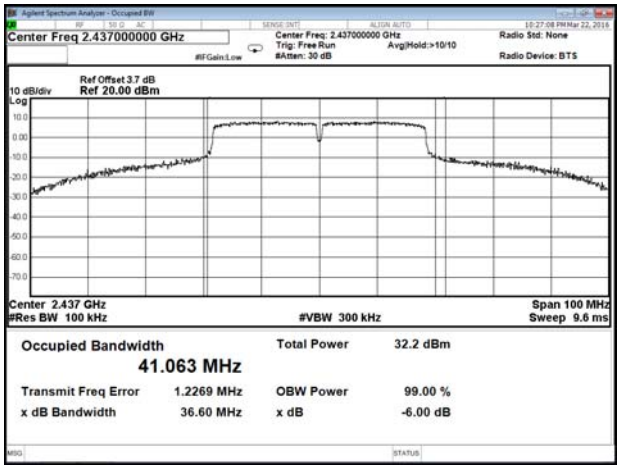
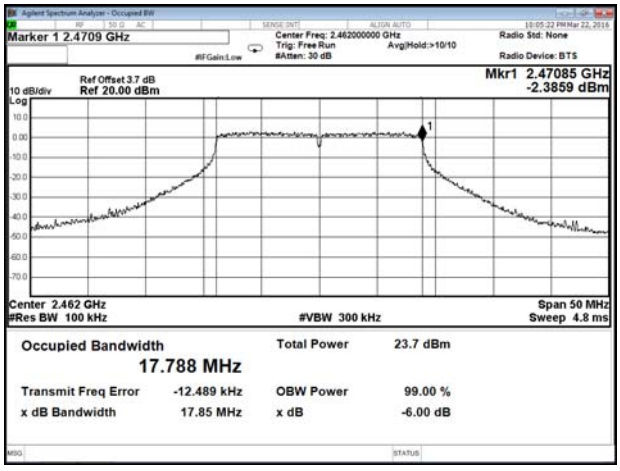
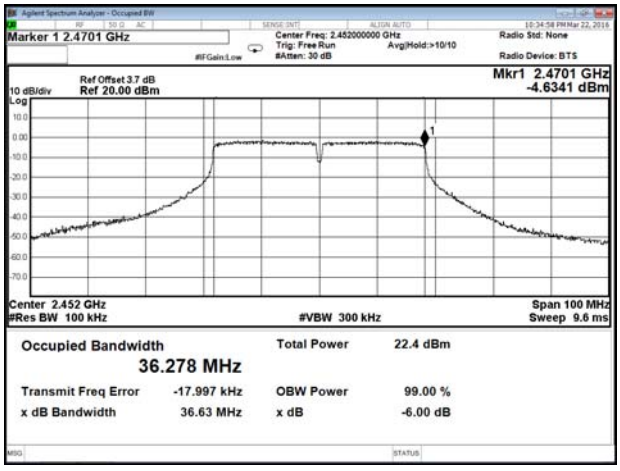
802.11n-HT20	802.11n-HT40
	
	
	

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A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V

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	24.15	--	24.15	0.260016	< 30dBm (1W)
	2437	23.60	--	23.60	0.229087	
	2462	24.52	--	24.52	0.283139	
802.11g	2412	25.26	--	25.26	0.335738	
	2437	26.34	--	26.34	0.430527	
	2462	25.44	--	25.44	0.349945	
802.11n-HT20	2412	24.09	24.38	27.25	0.530884	< 28.99dBm Note 2
	2437	25.23	25.40	28.33	0.680769	
	2462	23.74	23.83	26.80	0.478630	
802.11n-HT40	2422	21.97	22.81	25.42	0.348337	
	2437	25.04	25.50	28.29	0.674528	
	2452	22.54	24.04	26.36	0.432514	

Note 1: The results have been included cable loss.
Note 2: 802.11n Directional gain is 7.01dBi > 6dBi, the limit is 30 – (7.01-6) = 28.99dBm

A.2.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		Total Average Output Power		Limit
		Chain 0	Chain 1	(dBm)	(W)	
802.11b	2412	21.51	--	21.51	0.141579	< 30dBm (1W)
	2437	20.77	--	20.77	0.119399	
	2462	21.93	--	21.93	0.155955	
802.11g	2412	18.28	--	18.28	0.067298	
	2437	23.37	--	23.37	0.217270	
	2462	18.46	--	18.46	0.070146	
802.11n-HT20	2412	15.11	15.20	18.17	0.065615	< 28.99dBm Note 2
	2437	22.06	22.54	25.32	0.340408	
	2462	14.96	14.91	17.95	0.062373	
802.11n-HT40	2422	12.70	13.17	15.95	0.039355	
	2437	22.08	22.65	25.38	0.345144	
	2452	13.58	14.10	16.86	0.048529	

Note 1: The results have been included cable loss.
Note 2: 802.11n Directional gain is 7.01dBi > 6dBi, the limit is 30 – (7.01-6) = 28.99dBm

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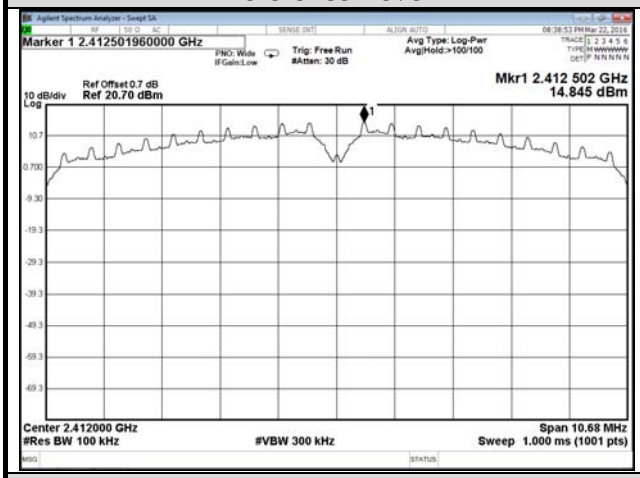
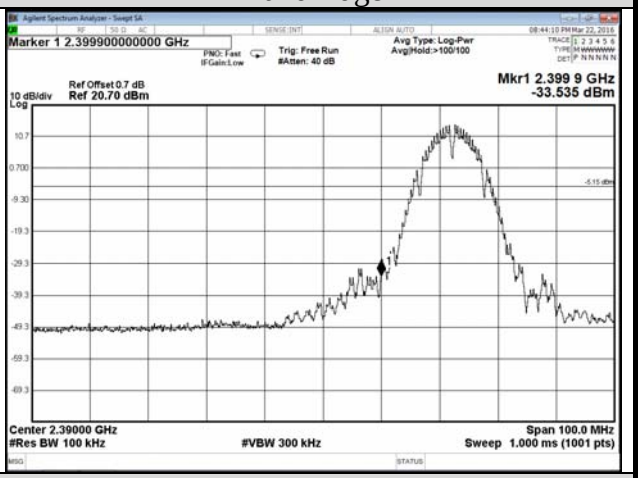
A.3 EMISSION LIMITATIONS MEASUREMENT

Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

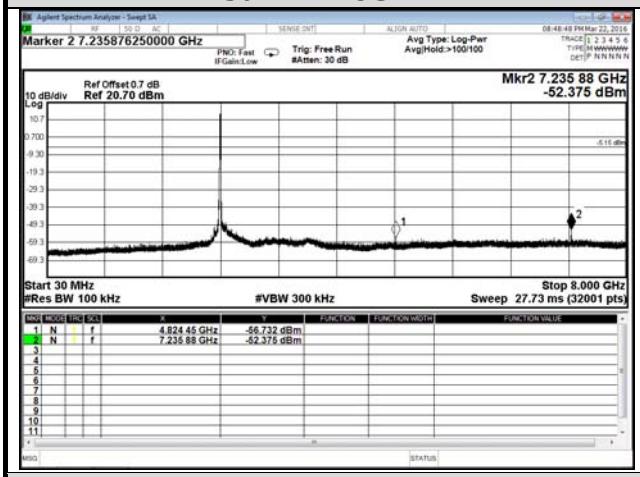
Reference Level



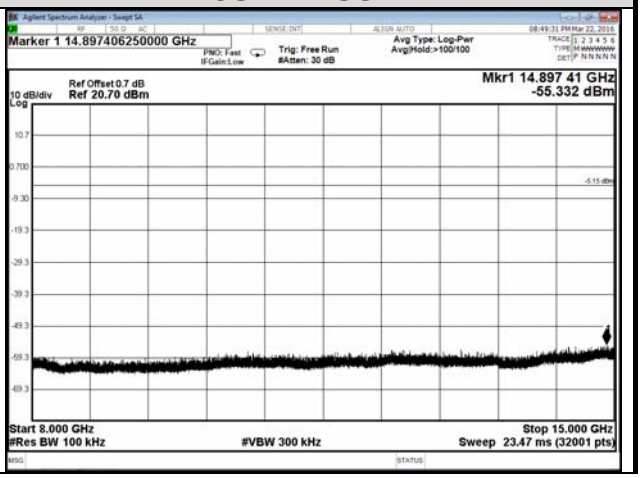
Band Edge



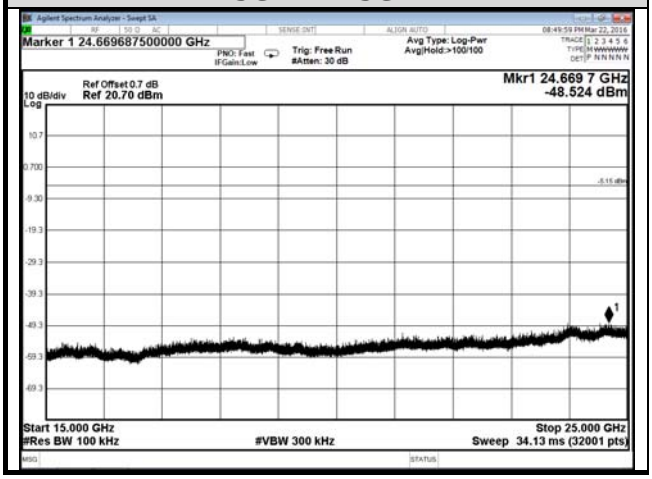
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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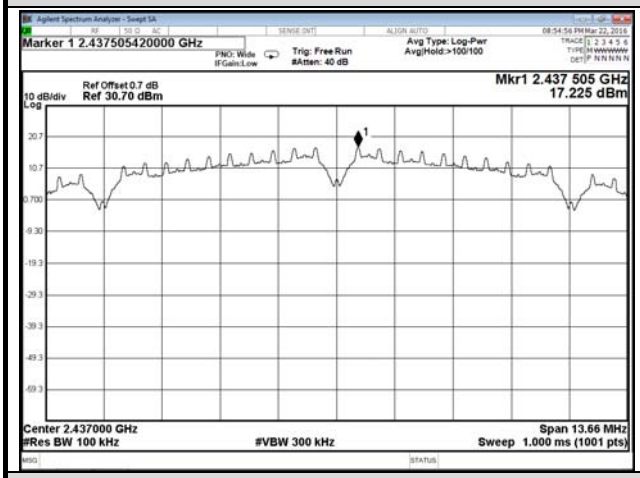
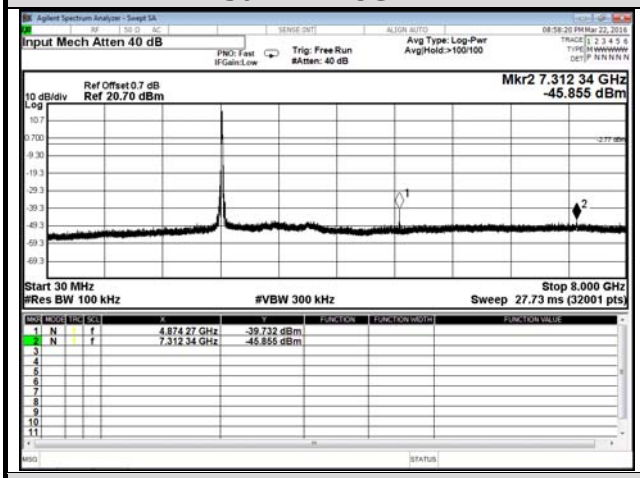
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

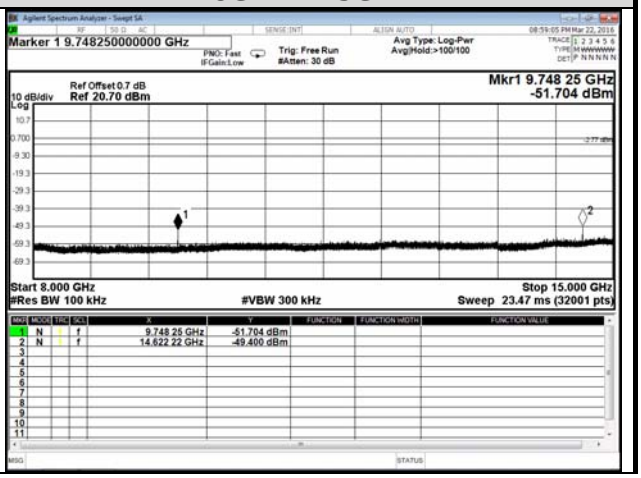
Reference Level



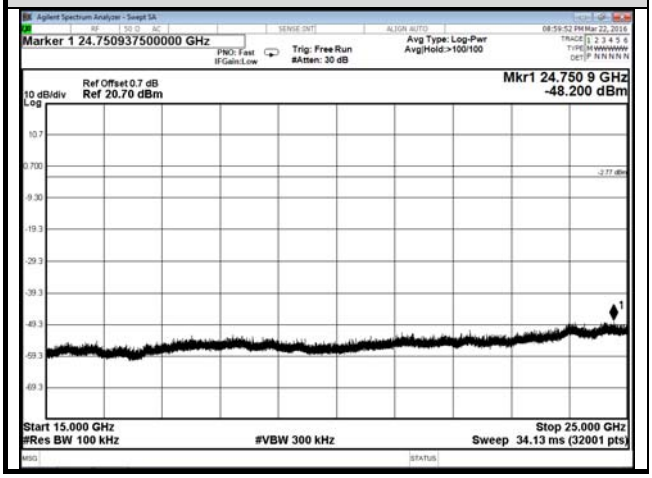
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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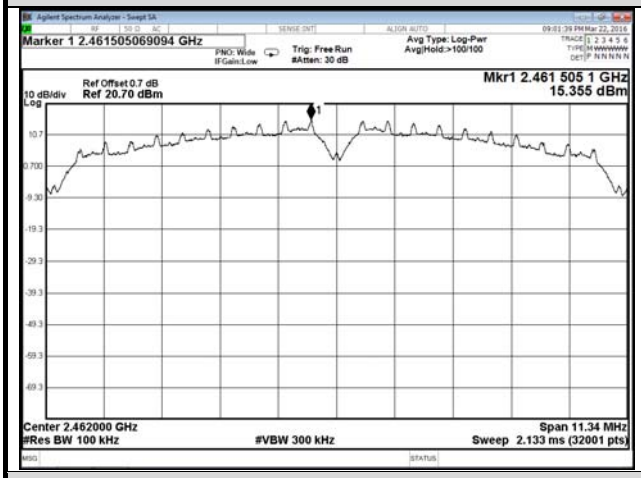
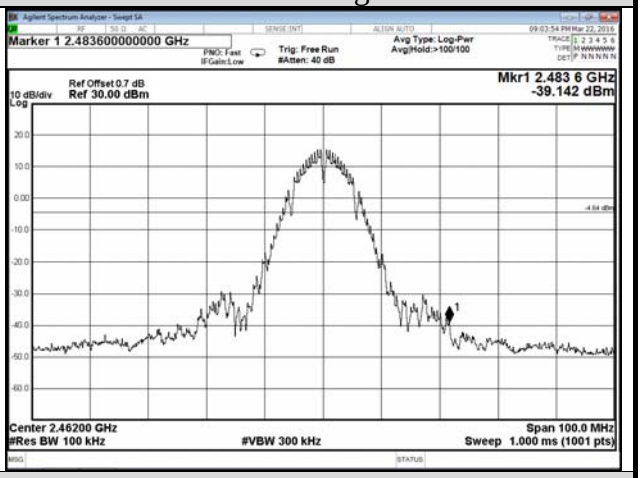
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

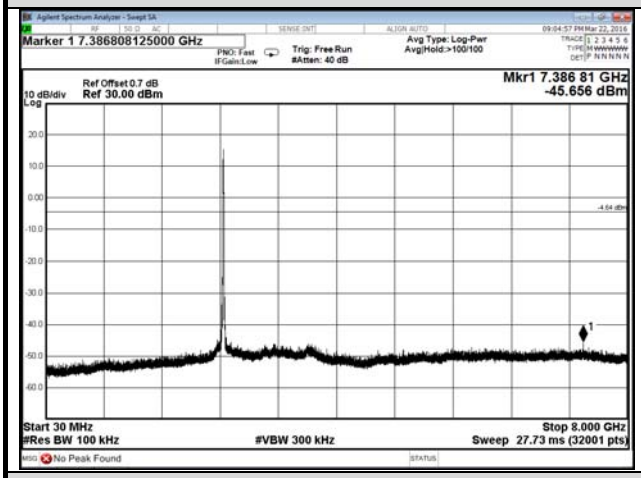
Reference Level



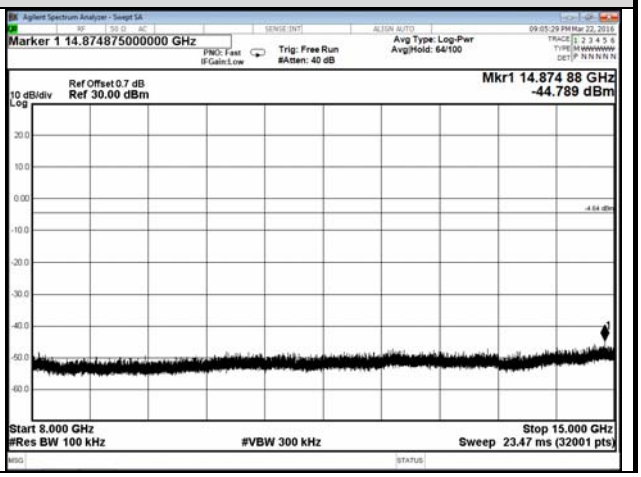
Band Edge



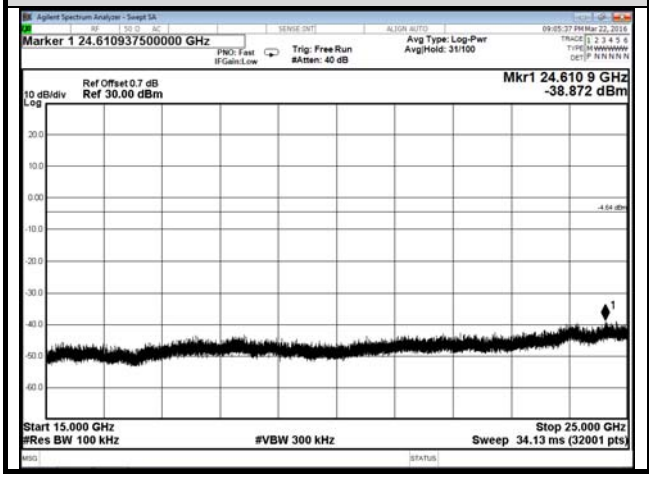
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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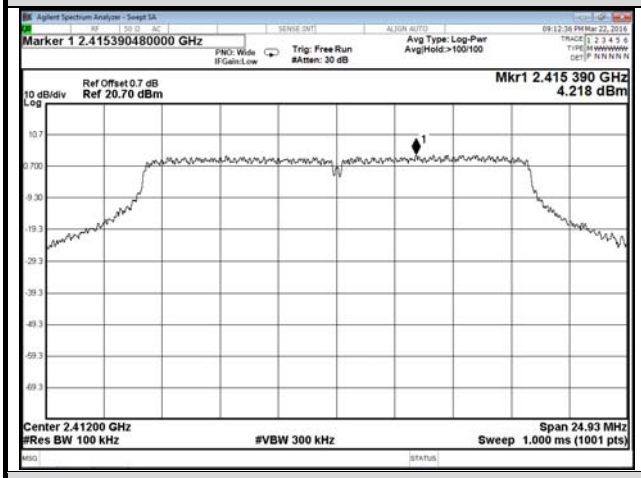
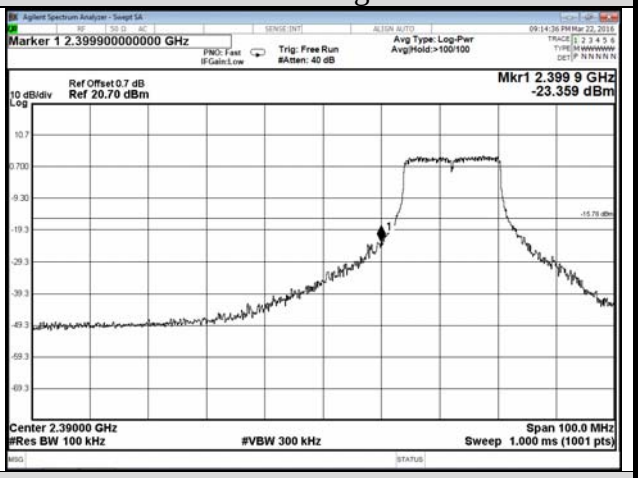
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

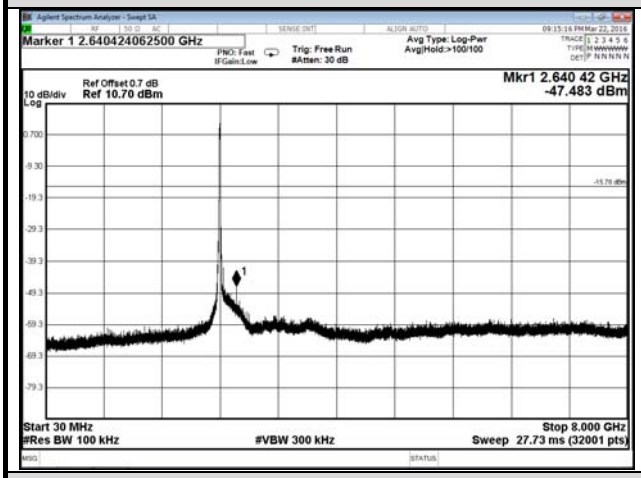
Reference Level



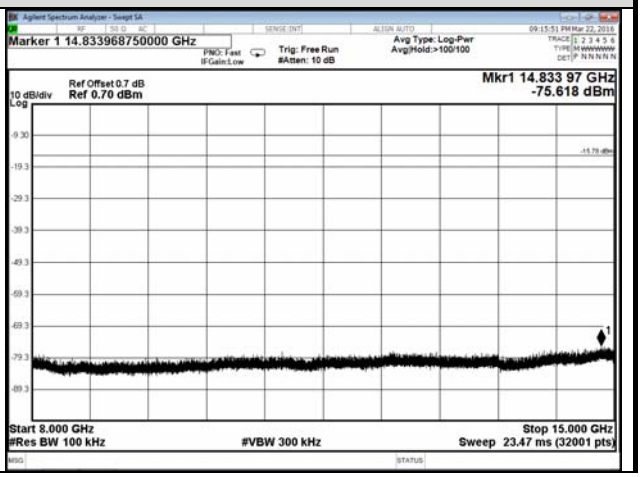
Band Edge



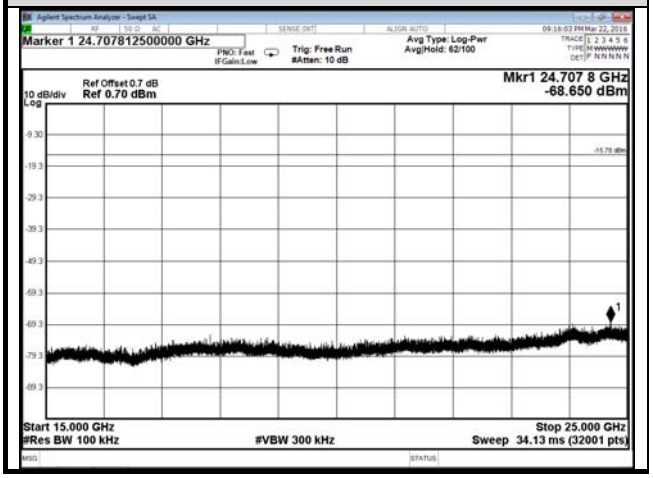
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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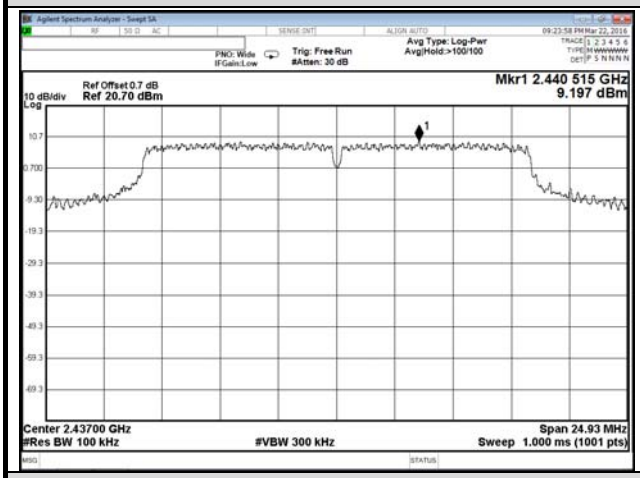
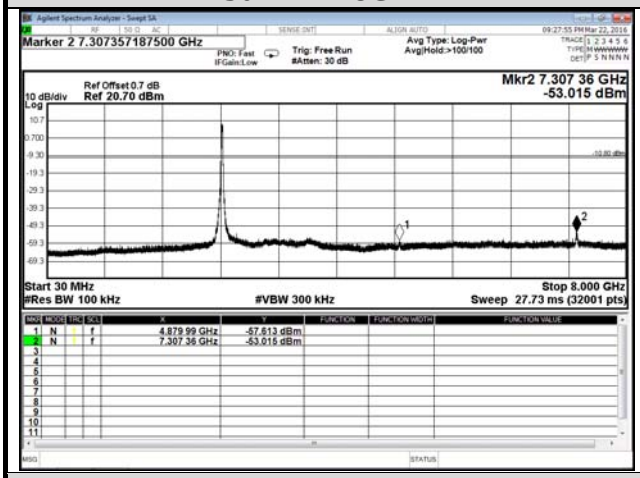
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

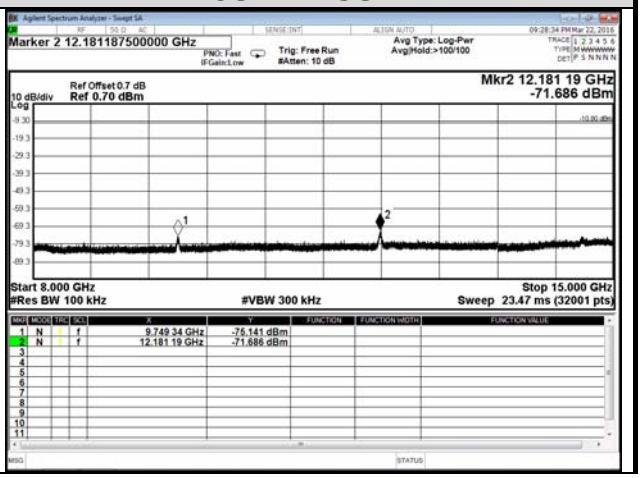
Reference Level



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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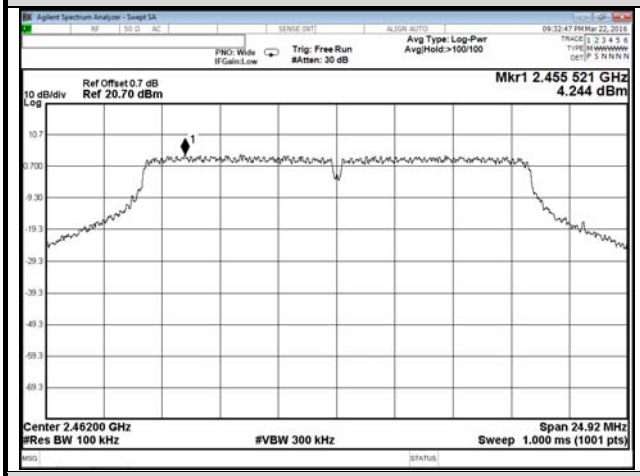
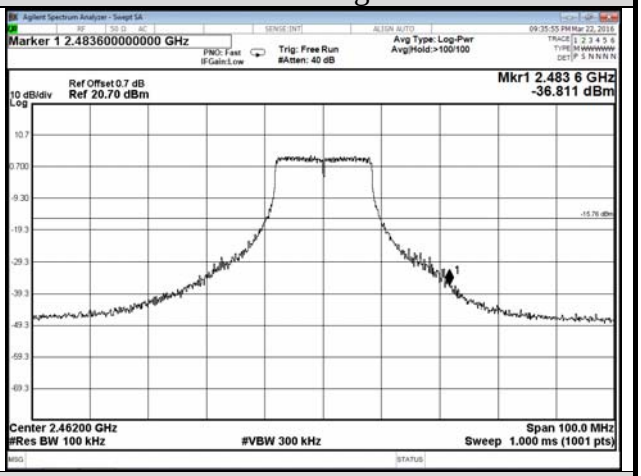
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			N/A

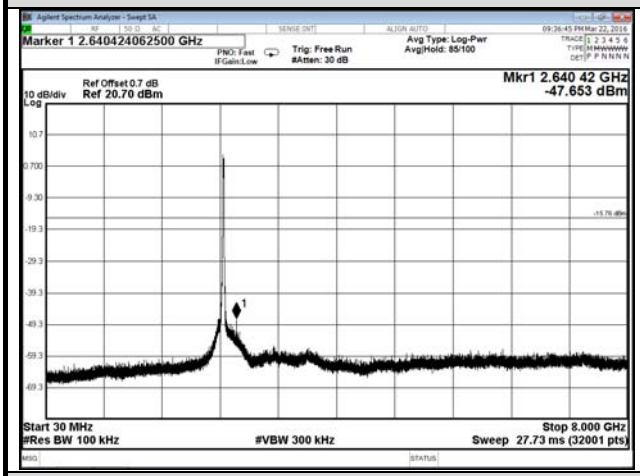
Reference Level



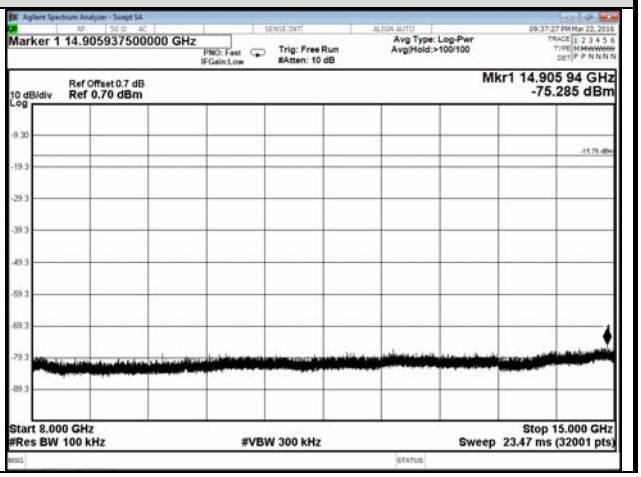
Band Edge



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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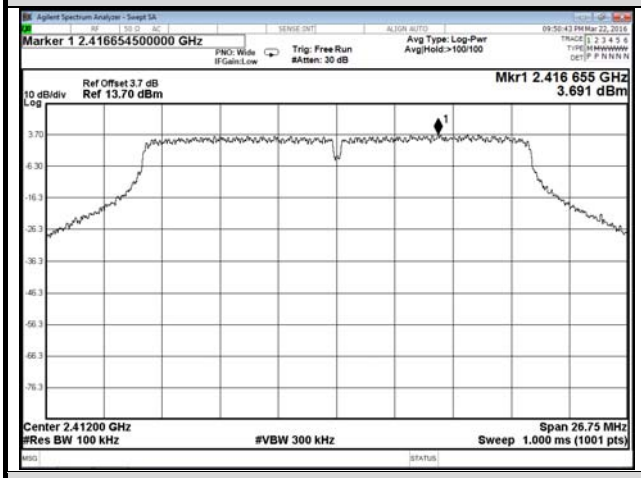
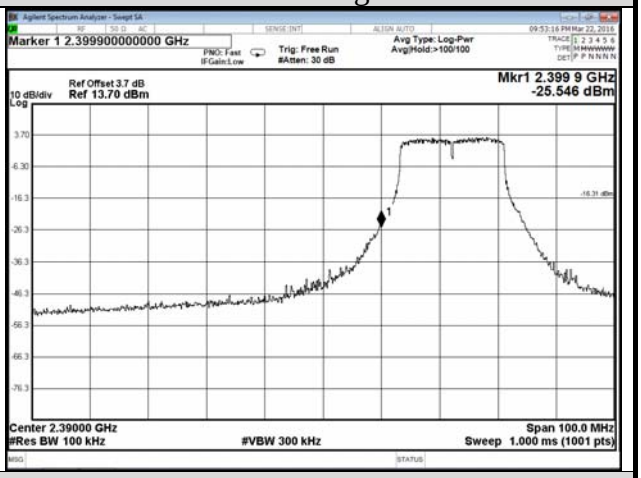
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

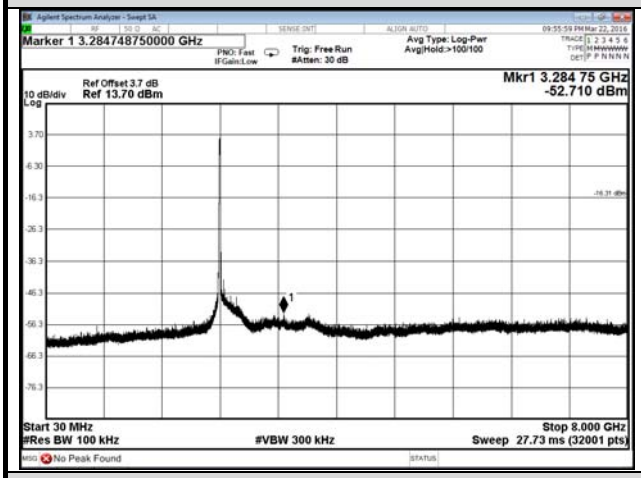
Reference Level



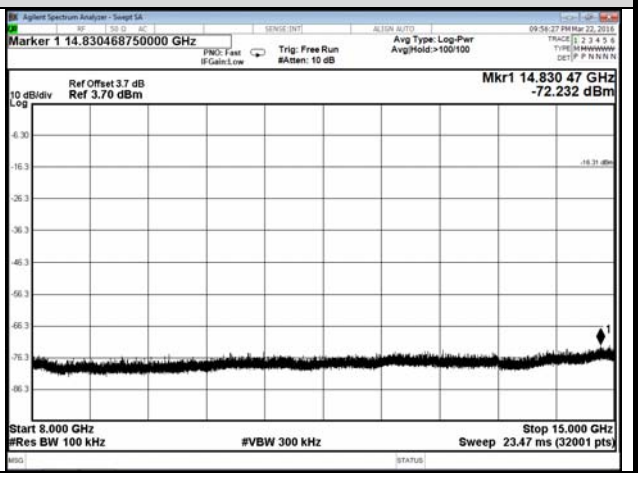
Band Edge



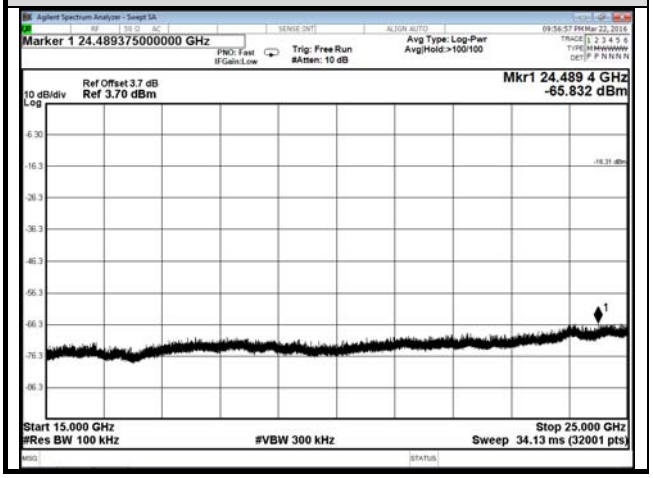
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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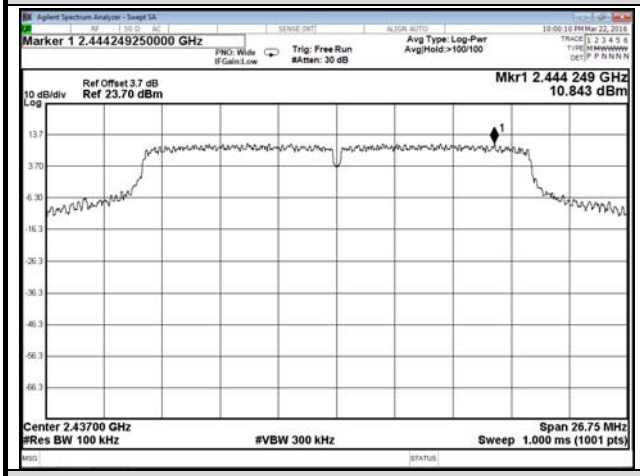
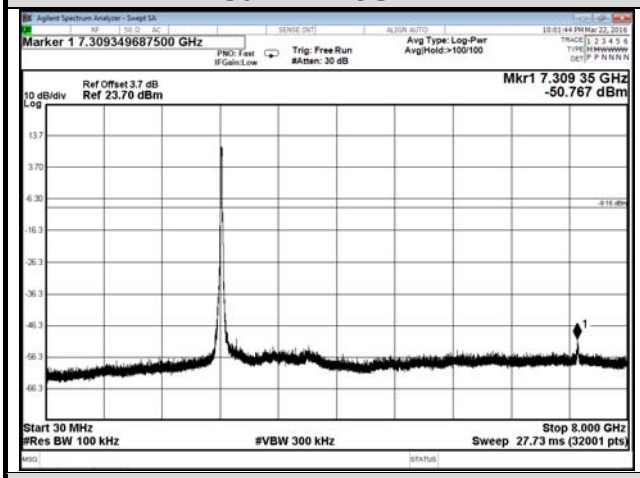
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

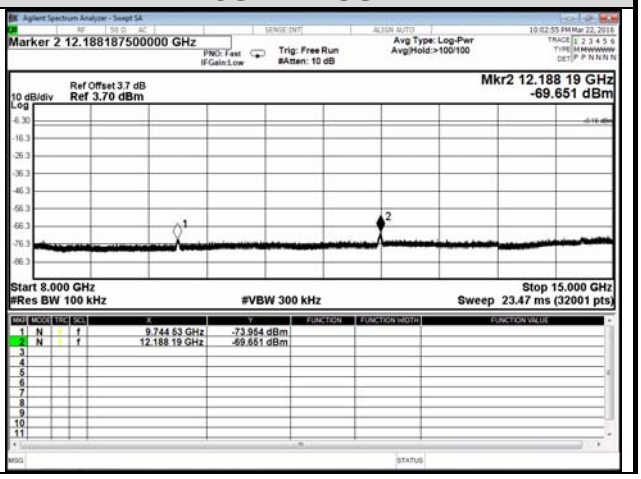
Reference Level



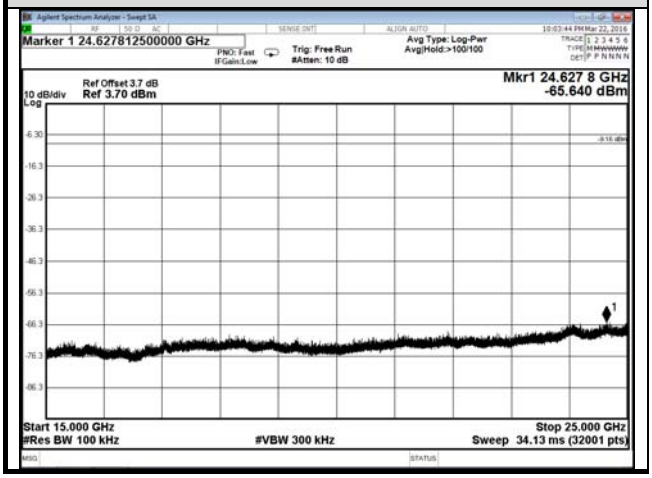
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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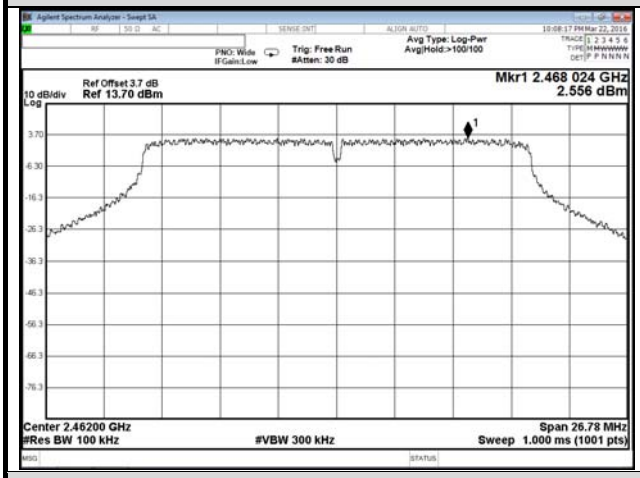
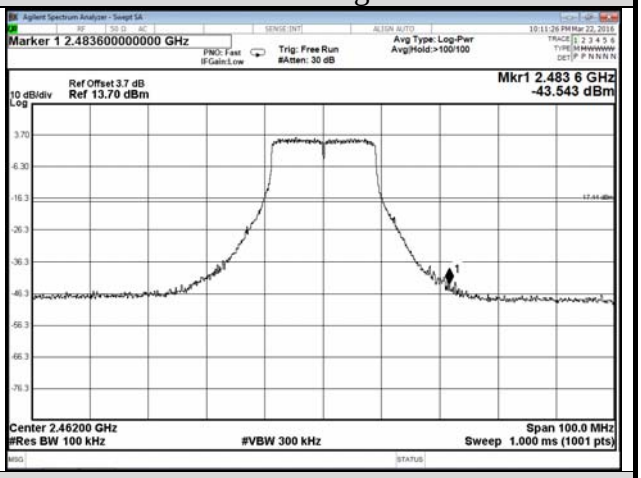
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

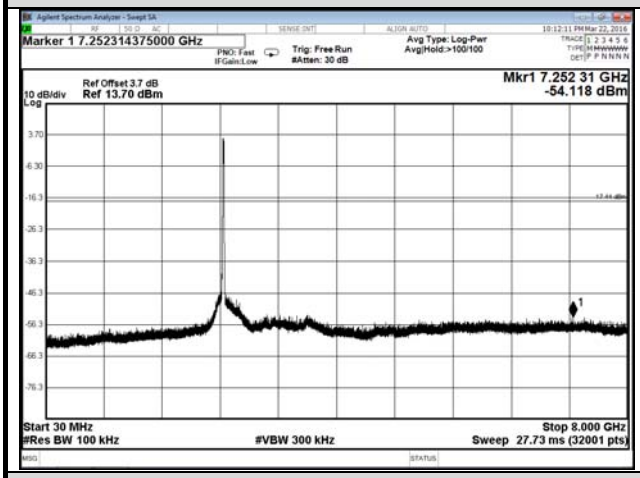
Reference Level



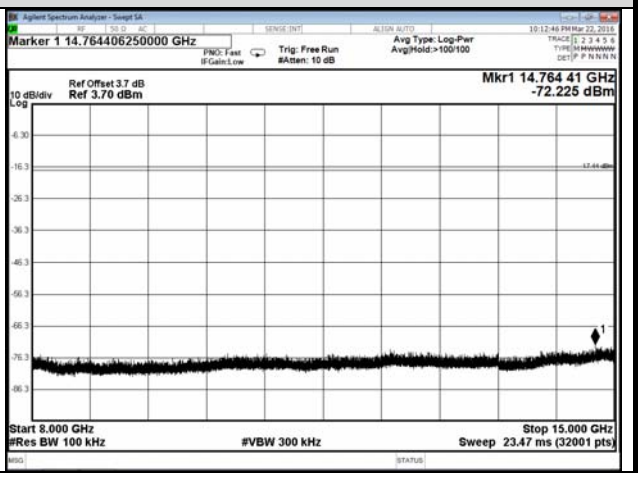
Band Edge



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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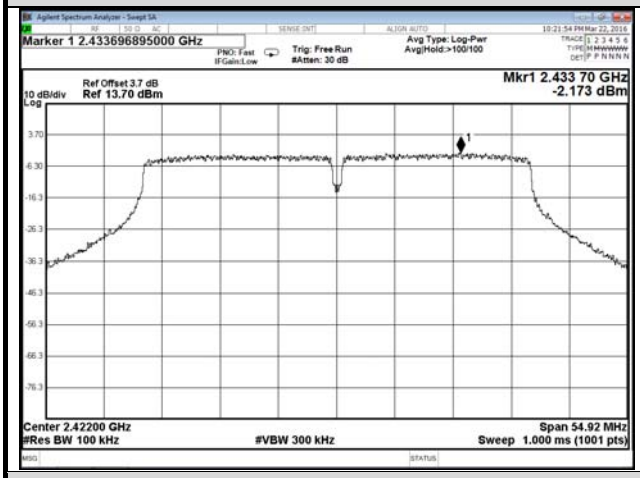
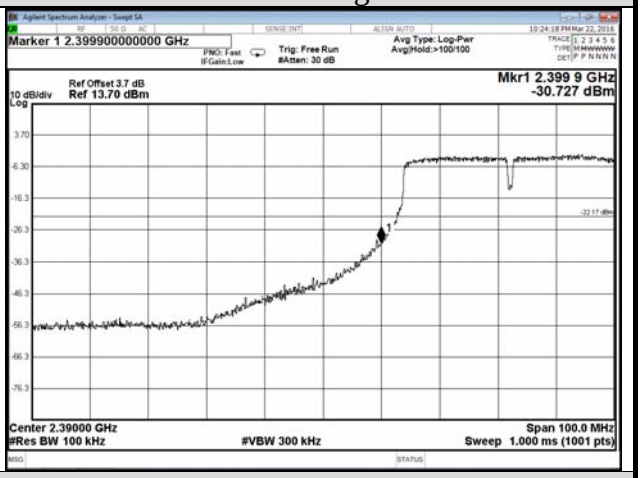
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

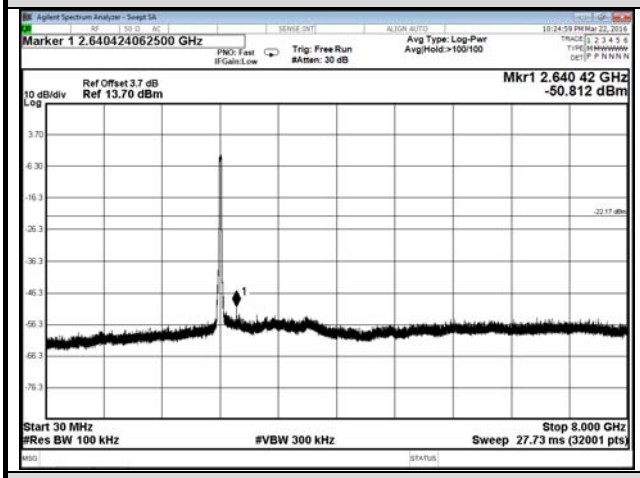
Reference Level



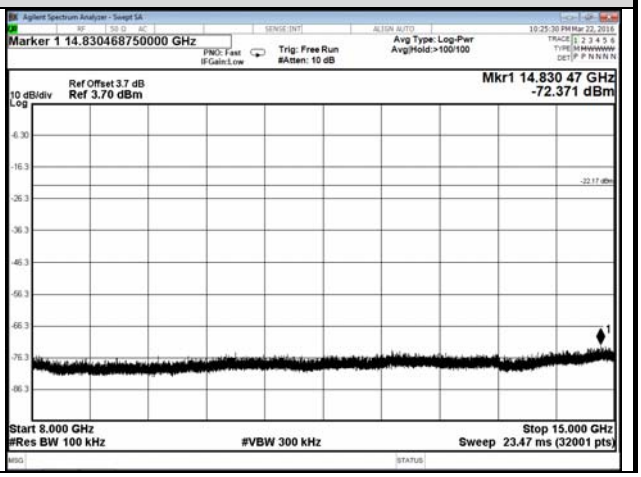
Band Edge



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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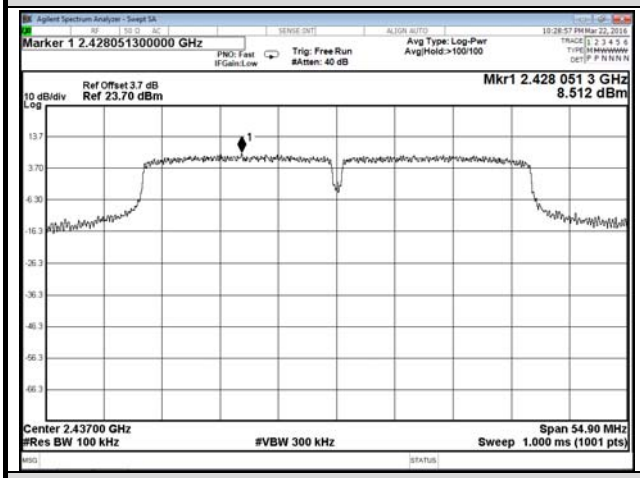
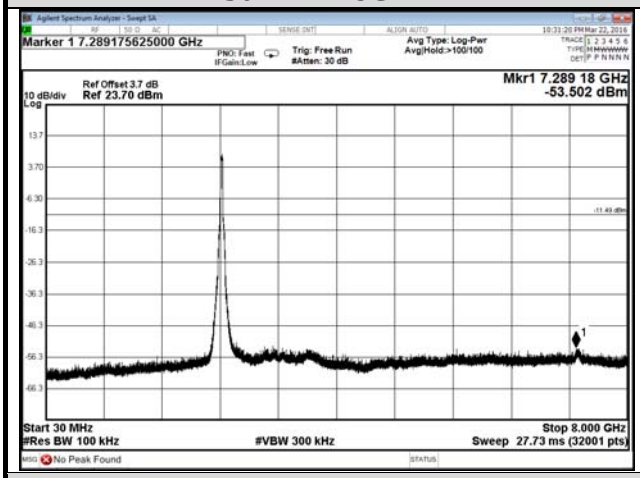
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

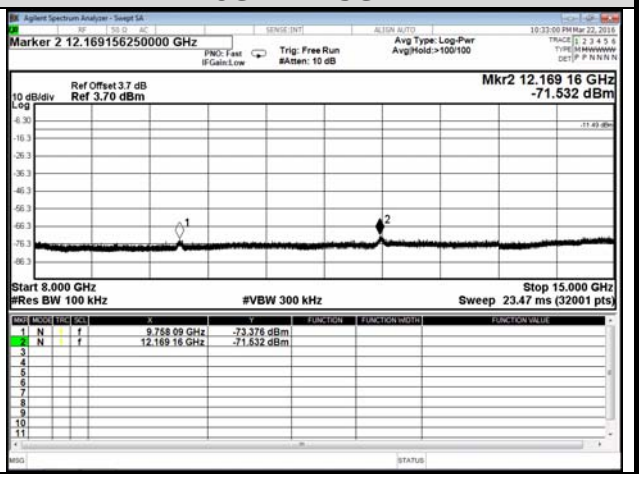
Reference Level



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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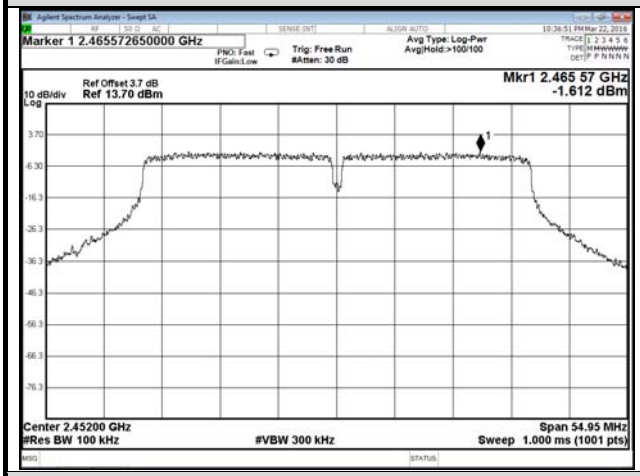
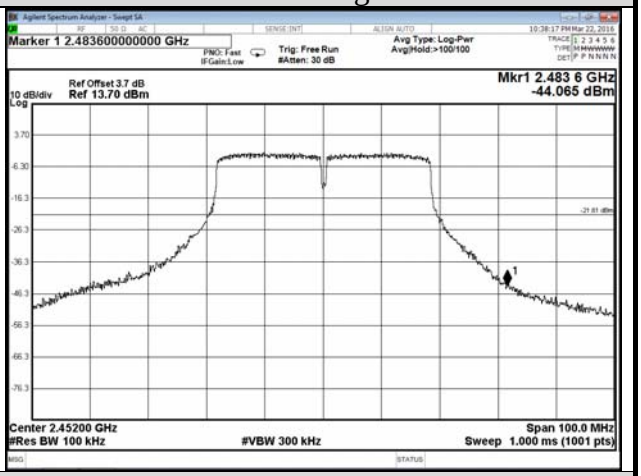
Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			3

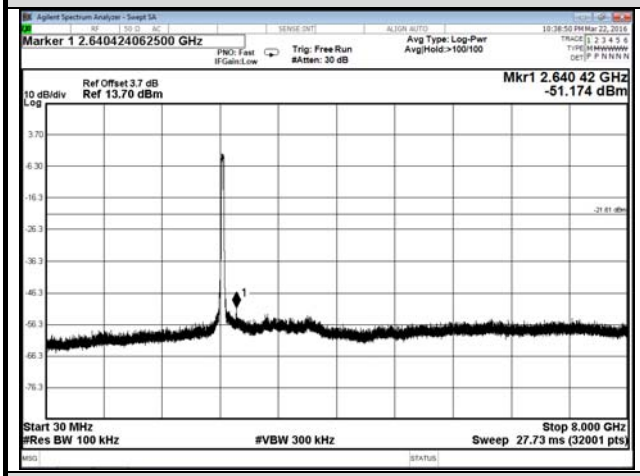
Reference Level



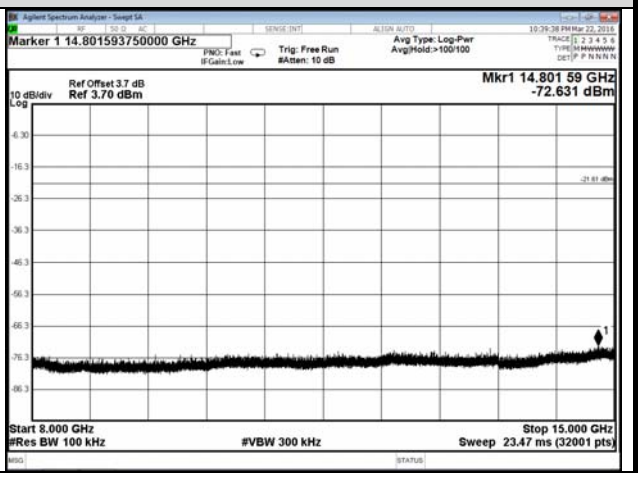
Band Edge



30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz

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A.4 POWER SPECTRAL DENSITY

Test Date	2016/03/22	Temp./Hum.	25℃/58%
Cable Loss	0.7dB	Test Voltage	DC 3.3V
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	1.795	< 8 dBm/3kHz
	2437	4.845	
	2462	2.083	
802.11g	2412	-5.043	
	2437	-1.309	
	2462	-5.670	
802.11n-HT20[Note]	2412	-7.123	
	2437	1.335	
	2462	-7.230	
802.11n-HT40[Note]	2422	-12.931	
	2437	-2.528	
	2452	-12.499	

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

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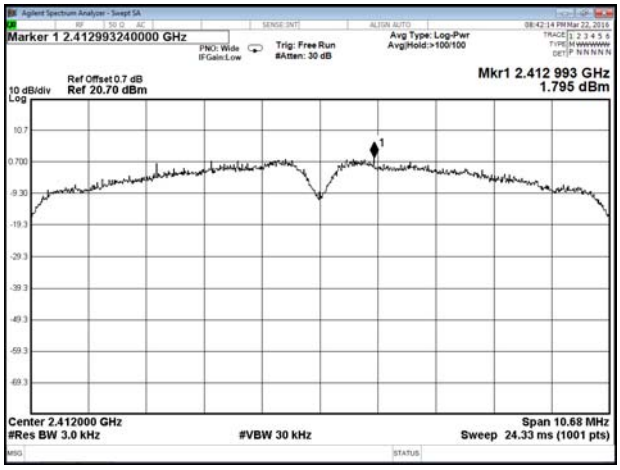
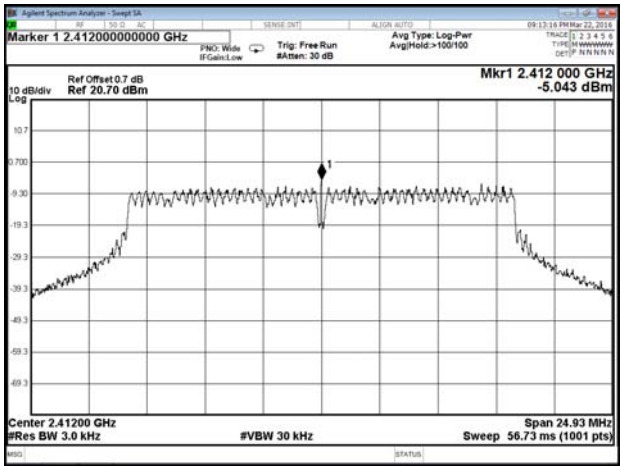
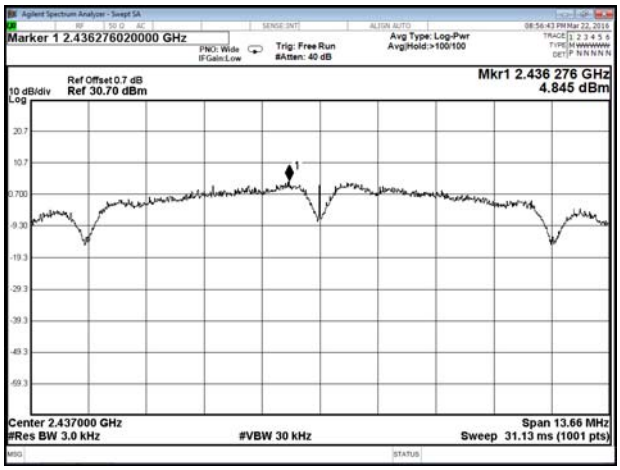
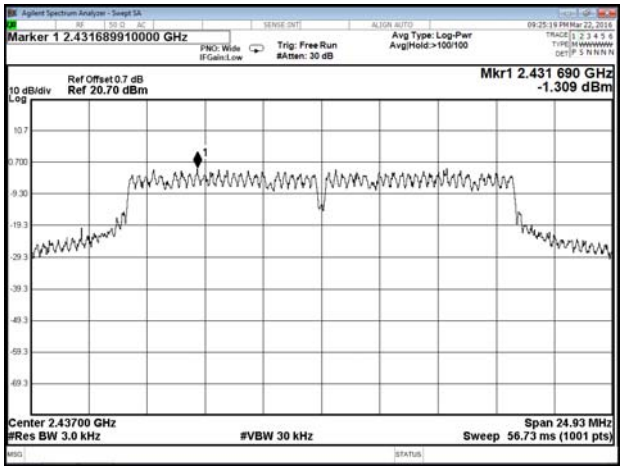
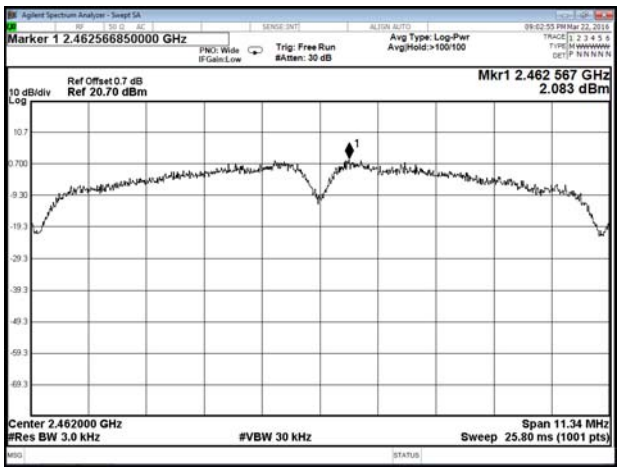
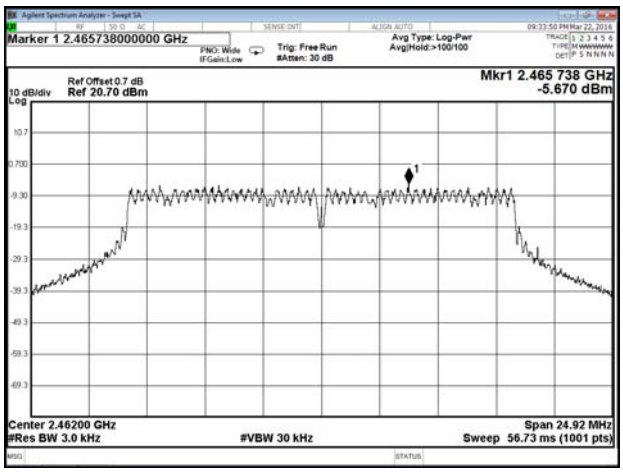
A.4.2 Measurement Plots

802.11b	802.11g
	
	
	

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

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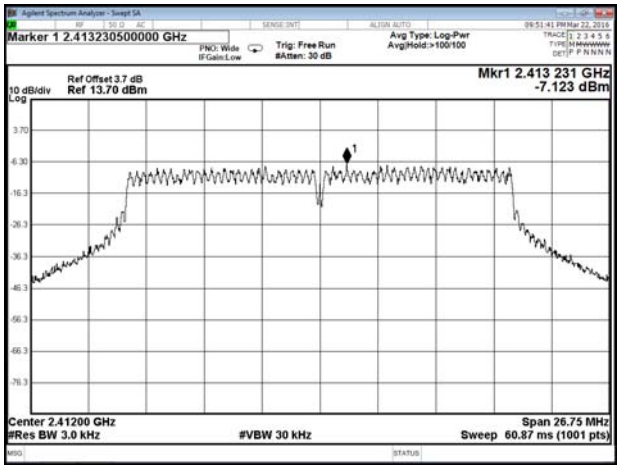
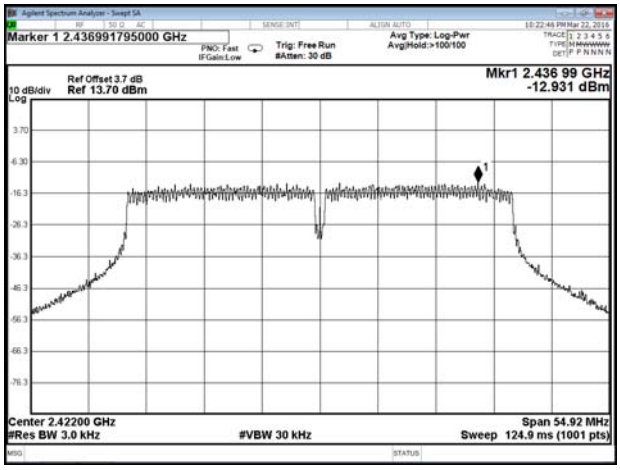
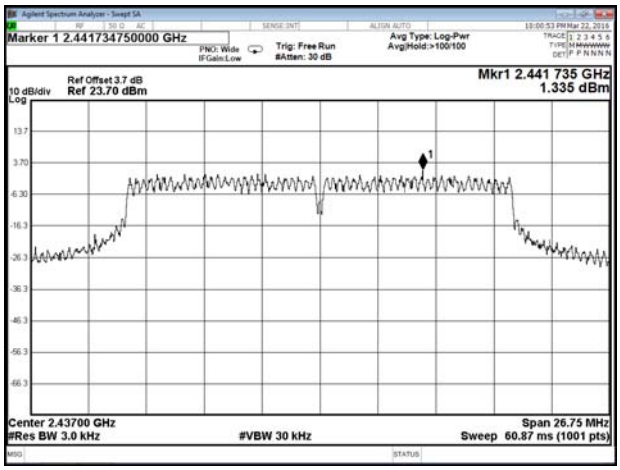
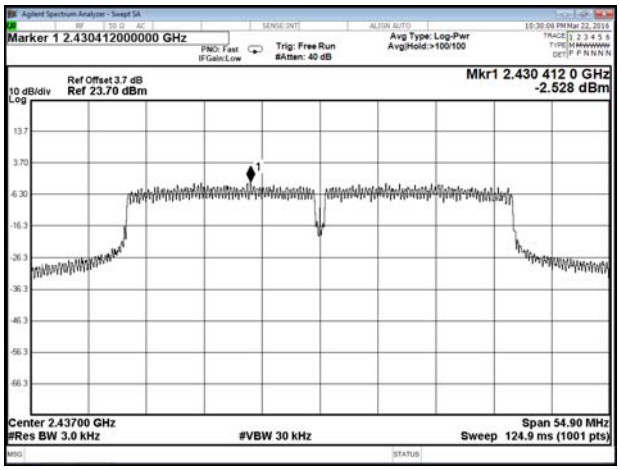
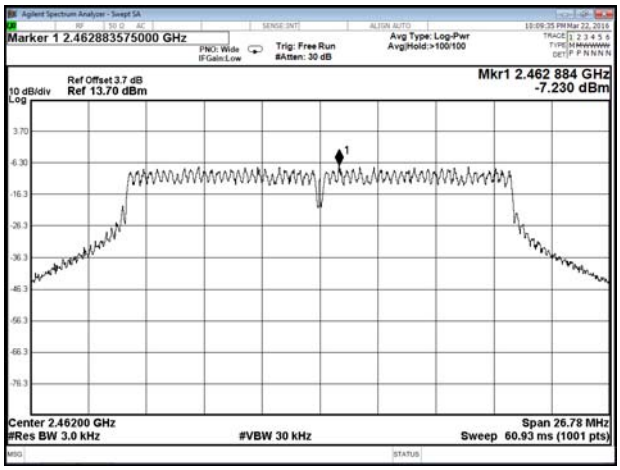
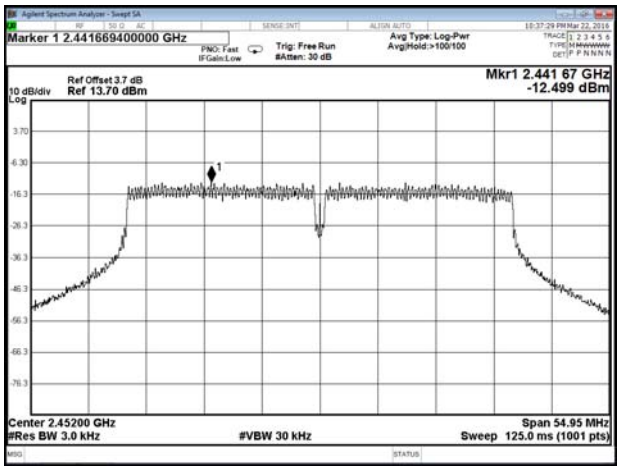
802.11n-HT20	802.11n-HT40
	
	
	

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

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