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APPENDIX A

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APPDNDIX A

TEST PLOTS

(Model: RE200)

File Number: C1M1411001

Report Number: EM-EM-F140741

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A.1 EMISSION BANDWIDTH MEASUREMENT

Test Date	2015/03/19 ~ 04/01	Temp./Hum.	25 ~ 26°C/54 ~ 60%
Cable Loss	N/A	Test Voltage	AC 120V, 60Hz

A.1.1 Emission Bandwidth Result

Modulation Type	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	21.67	16.553	Reference only
		5200	22.34	16.582	
		5240	25.62	16.473	
802.11ac-VHT20	I	5180	21.29	17.556	
		5200	21.38	17.567	
		5240	21.49	17.602	
802.11ac-VHT40	I	5190	39.91	36.130	
		5230	44.54	36.325	
802.11ac-VHT80	I	5210	81.01	75.433	

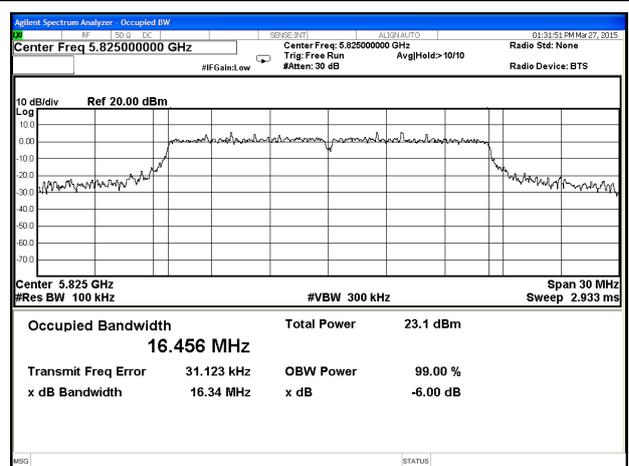
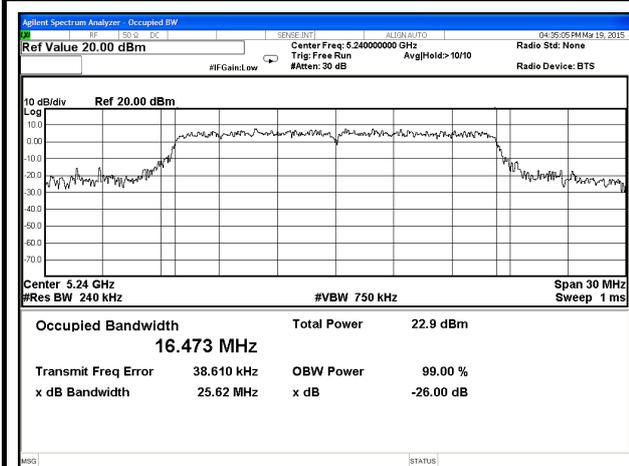
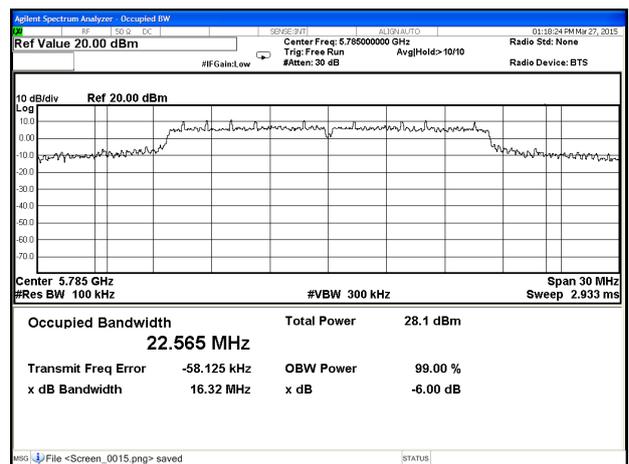
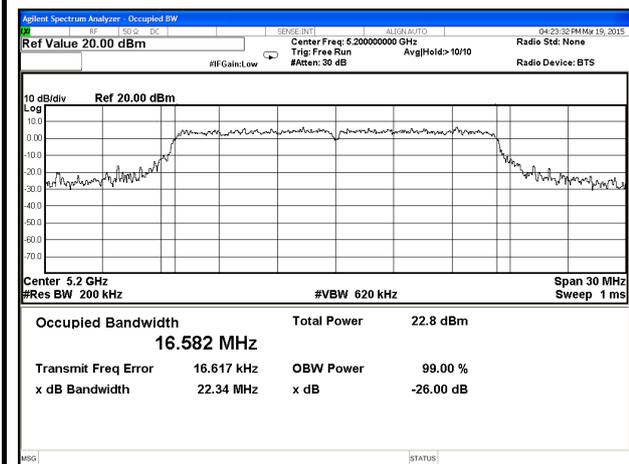
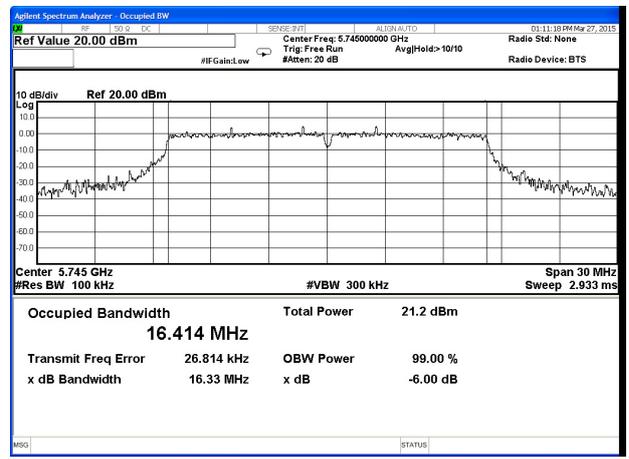
Modulation Type	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	16.33	≥ 500kHz
		5785	16.32	
		5825	16.34	
802.11ac-VHT20	III	5745	17.05	
		5785	17.03	
		5825	16.88	
802.11ac-VHT40	III	5755	35.54	
		5795	35.29	
802.11ac-VHT80	III	5775	78.28	

A.1.2 Measurement Plots

802.11a

UNII Band I

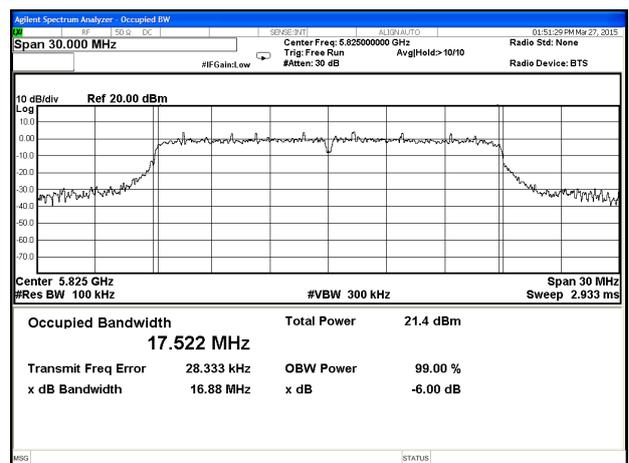
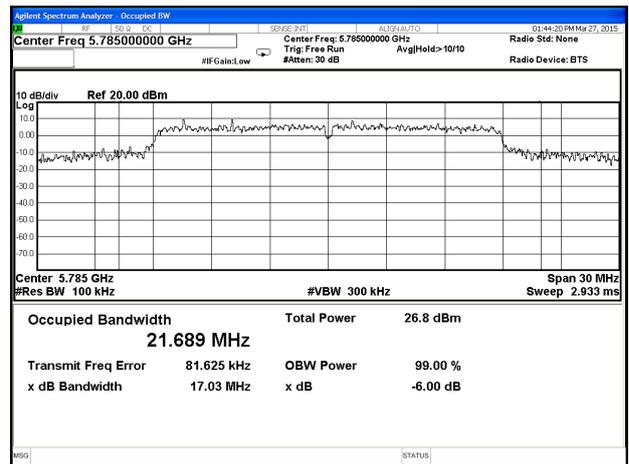
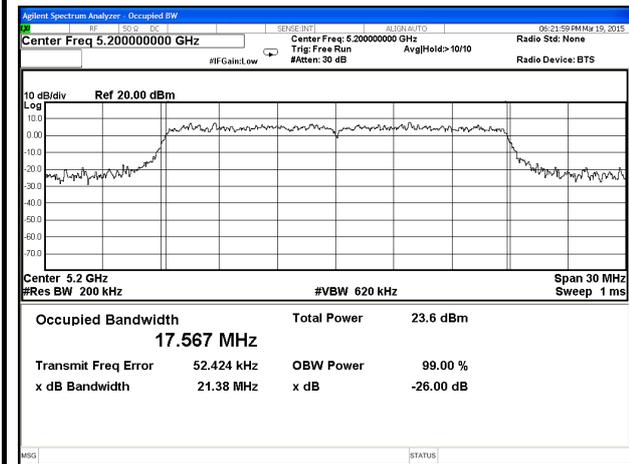
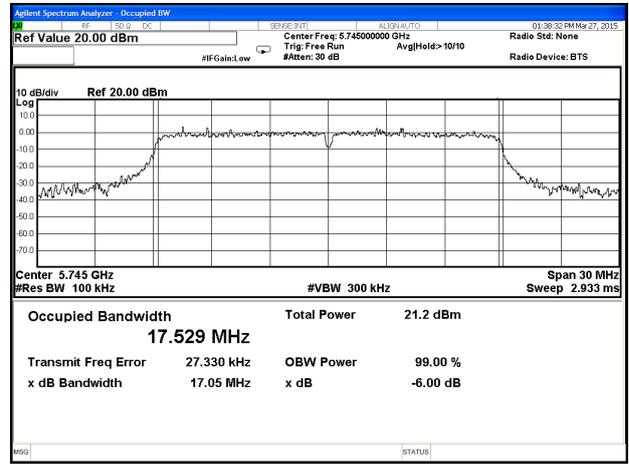
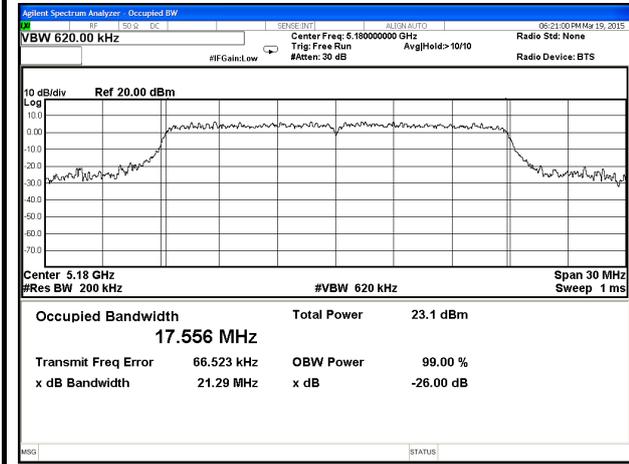
UNII Band III



802.11ac-VHT20

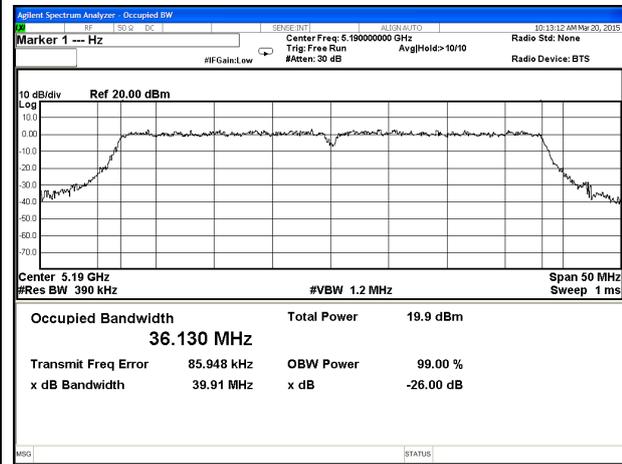
UNII Band I

UNII Band III

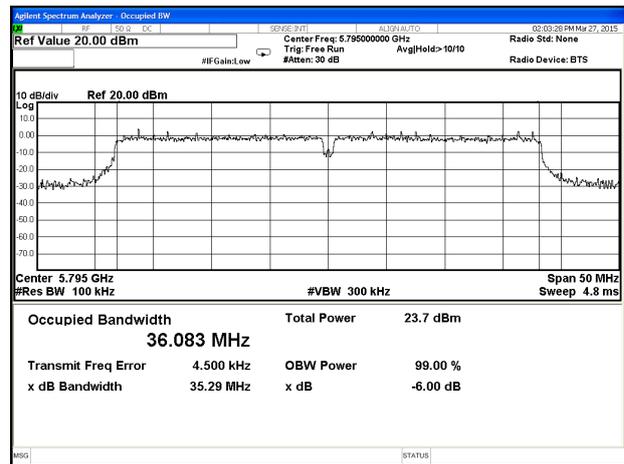
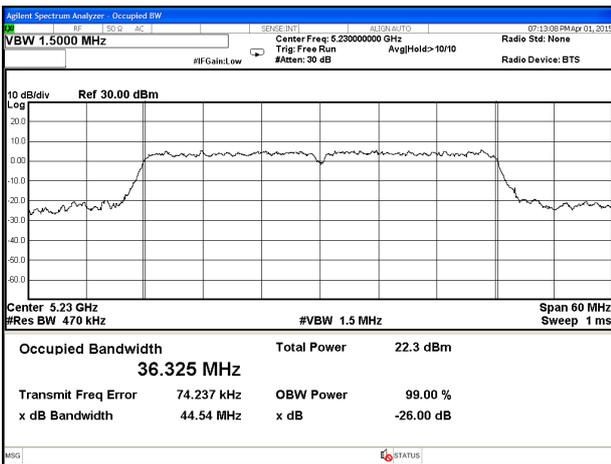
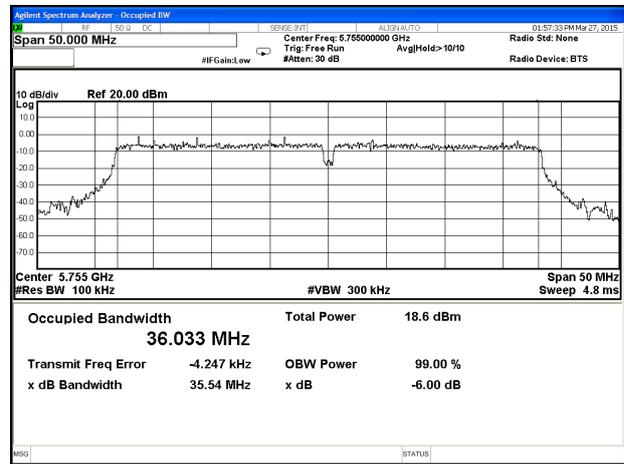


802.11ac-VHT40

UNII Band I

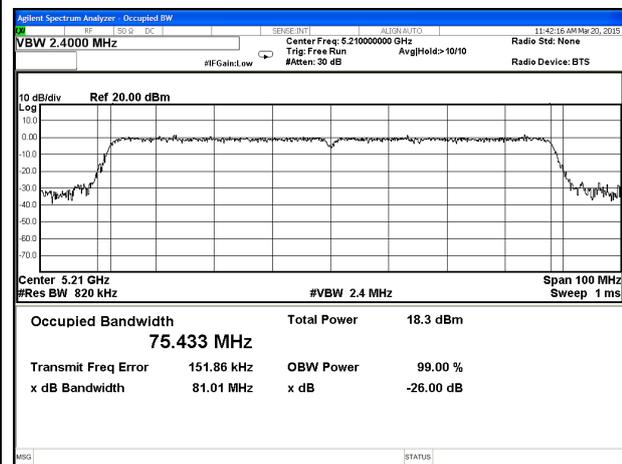


UNII Band III

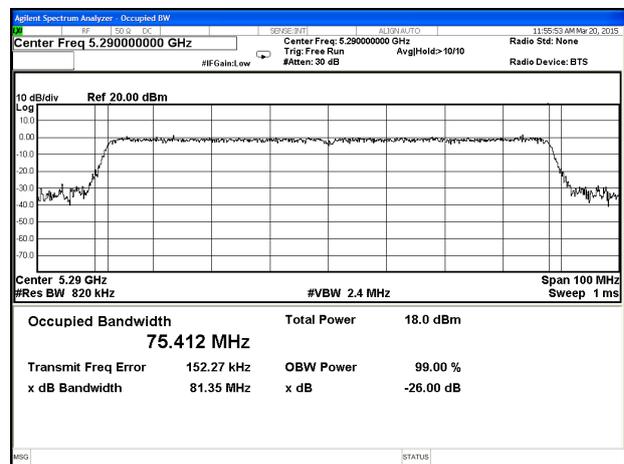


802.11ac-VHT80

UNII Band I



UNII Band II-2A



A.2 MAXIMUM OUTPUT POWER MEASUREMENT

A.2.1 Emission Bandwidth Result

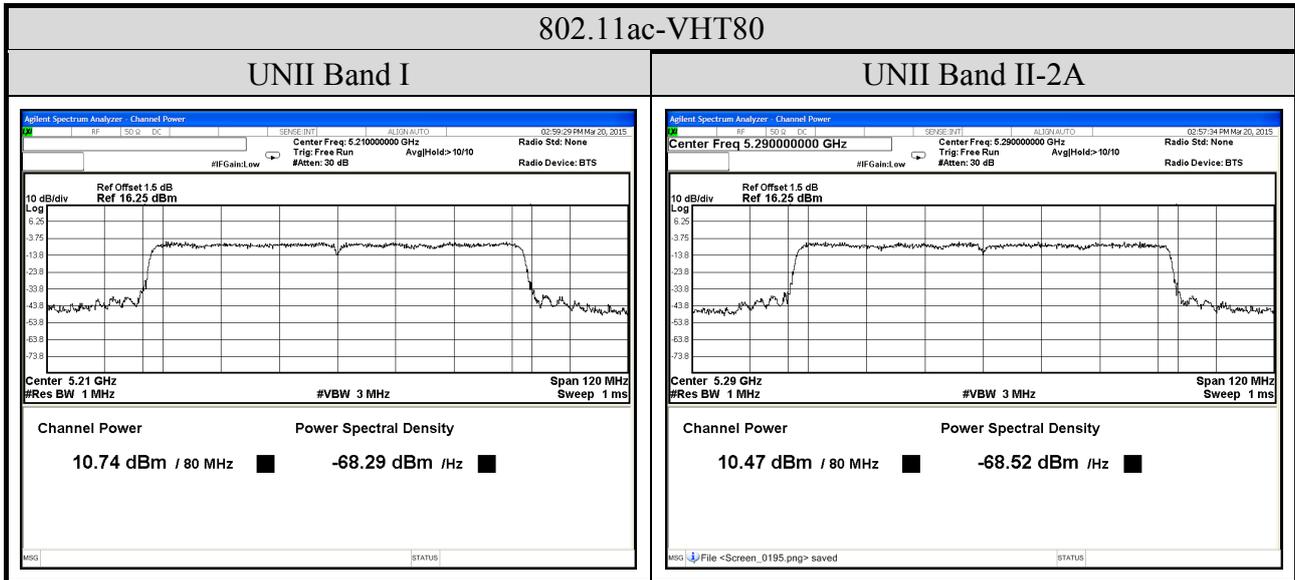
Test Date	2015/03/20	Temp./Hum.	26°C/60%
Cable Loss	0.8dB	Test Voltage	AC 120V, 60Hz

Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power		Limit
			(dBm)	(W)	
802.11a	I	5180	18.15	0.065	< 250 mW (24 dBm)
		5200	18.01	0.063	
		5240	18.70	0.074	
	III	5745	16.84	0.048	< 1 W (30 dBm)
		5785	21.58	0.144	
		5825	17.33	0.054	
802.11ac-VHT20	I	5180	17.30	0.054	<250 mW (24 dBm)
		5200	18.31	0.068	
		5240	18.32	0.068	
	III	5745	15.81	0.038	< 1 W (30 dBm)
		5785	21.54	0.143	
		5825	15.39	0.035	
802.11ac-VHT40	I	5190	13.93	0.025	< 250 mW (24 dBm)
		5230	20.28	0.107	
	III	5755	13.79	0.024	< 1 W (30 dBm)
		5795	17.50	0.056	

Modulation Type	UNII Band	Centre Frequency (MHz)	Output Power		Output Power		Limit
			(dBm)	10log(1/X)	(dBm)	(W)	
802.11ac-VHT80	I	5210	10.74	0.27	11.01	0.013	< 250 mW (24 dBm)
	III	5775	9.23		9.50	0.009	< 1 W (30 dBm)

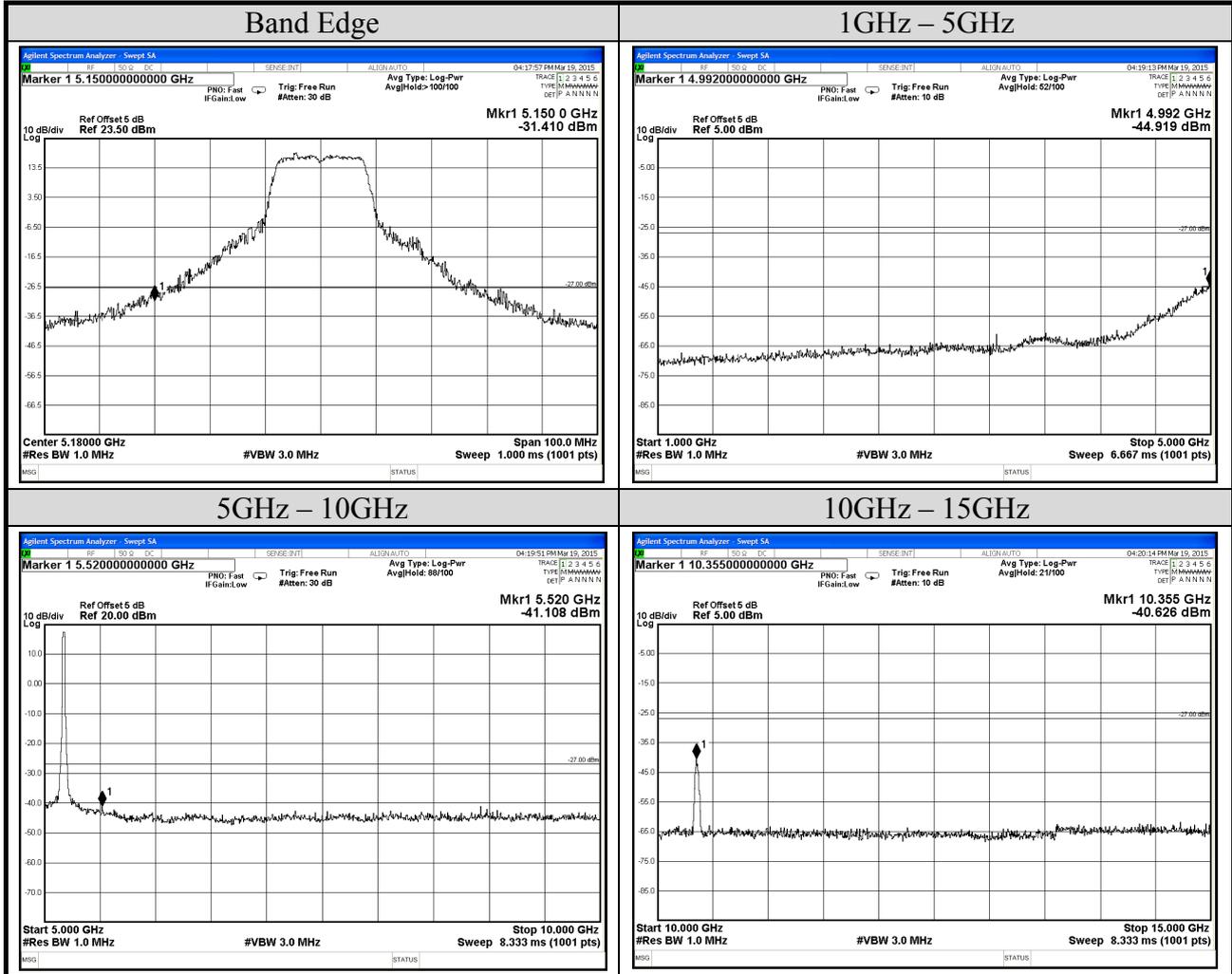
Note: The results have been included cable loss.

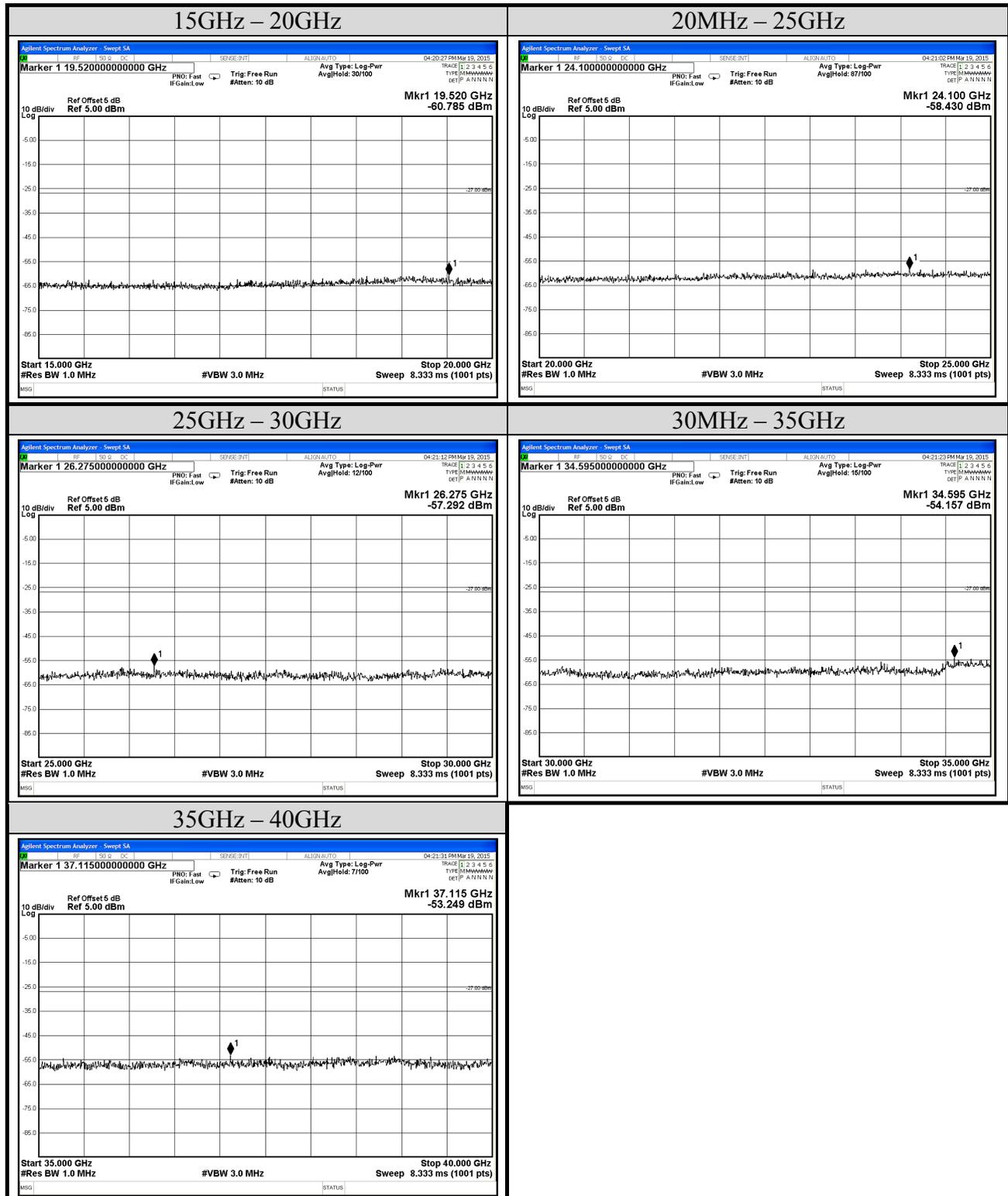
A.2.2 Measurement Plots



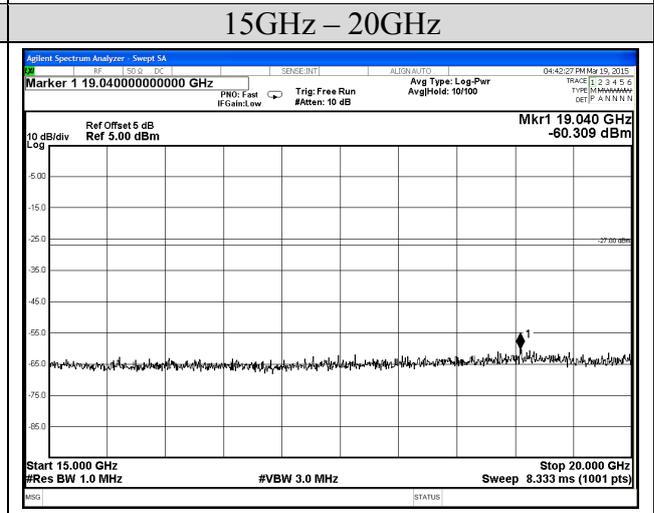
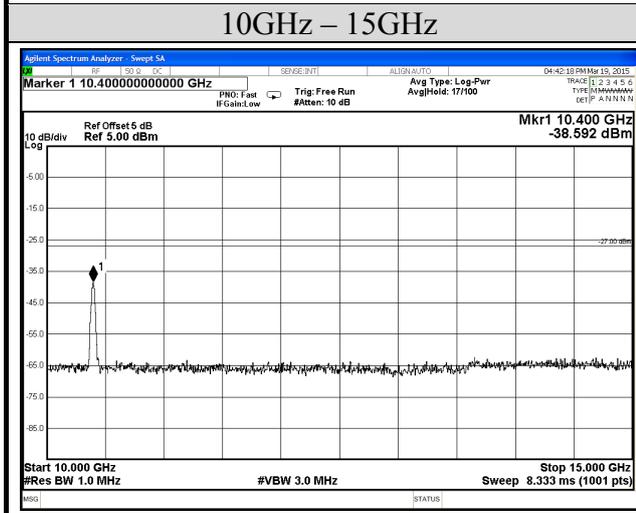
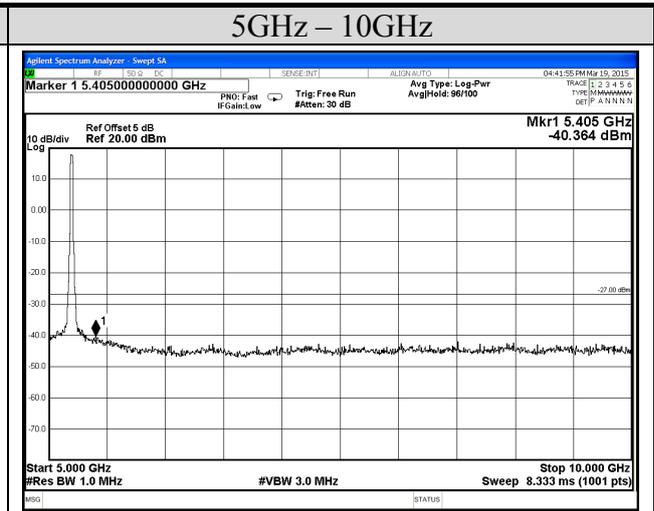
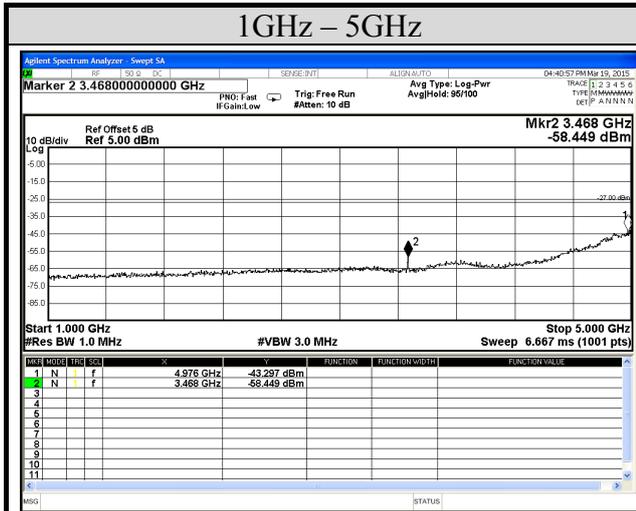
A.3 EMISSION LIMITATIONS MEASUREMENT

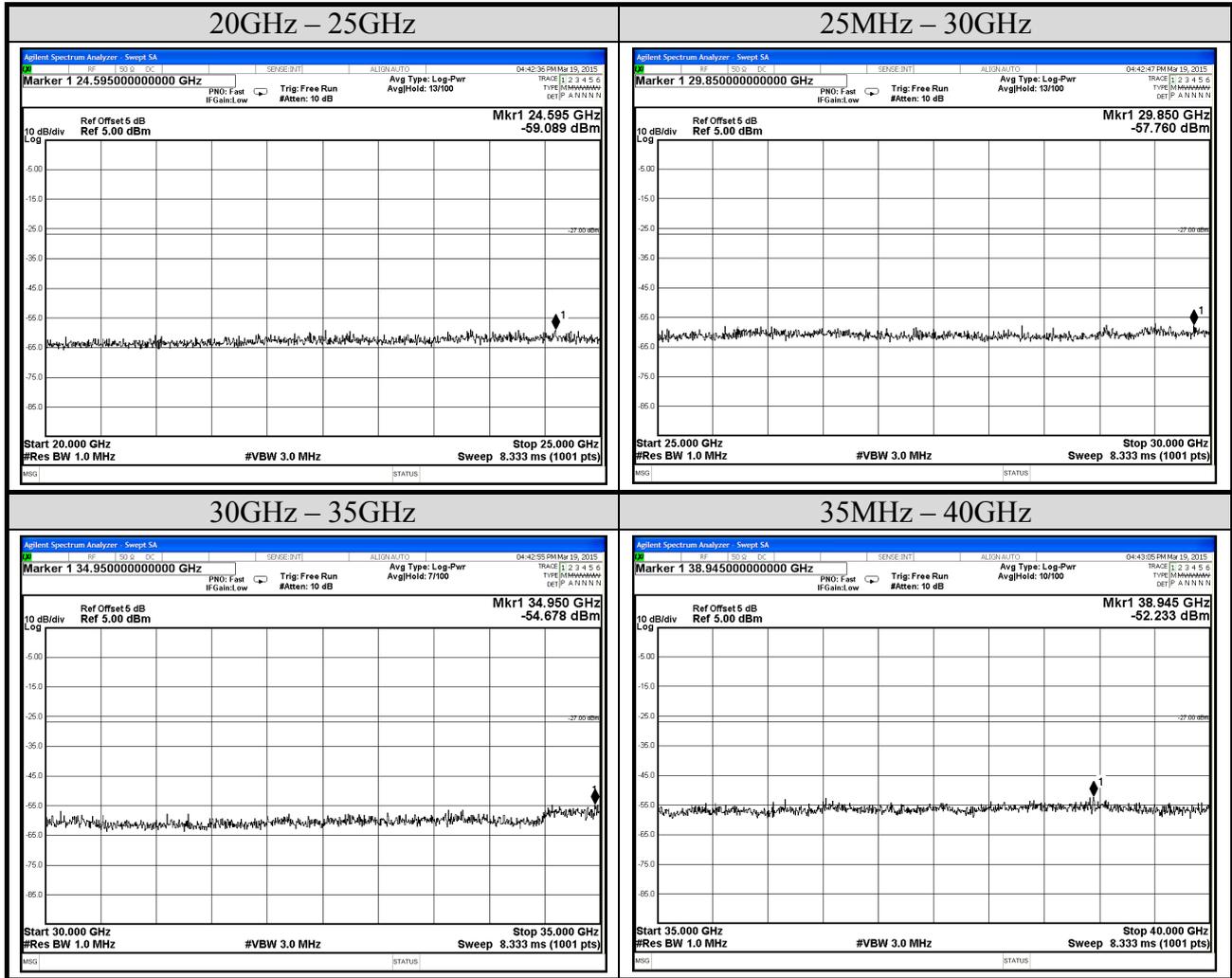
Test Date	2015/03/19	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



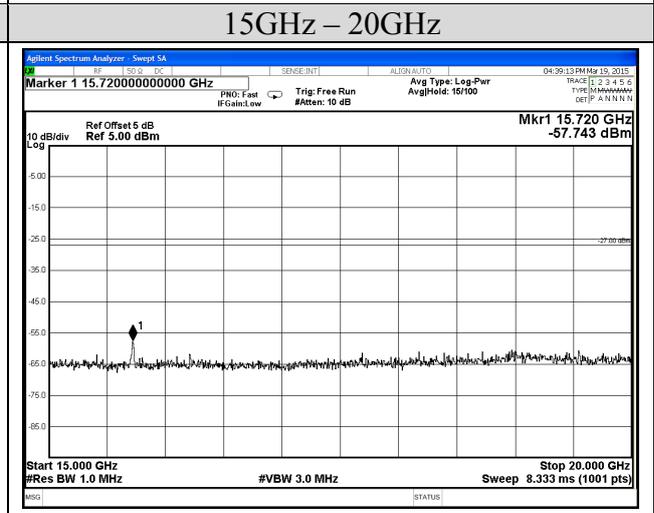
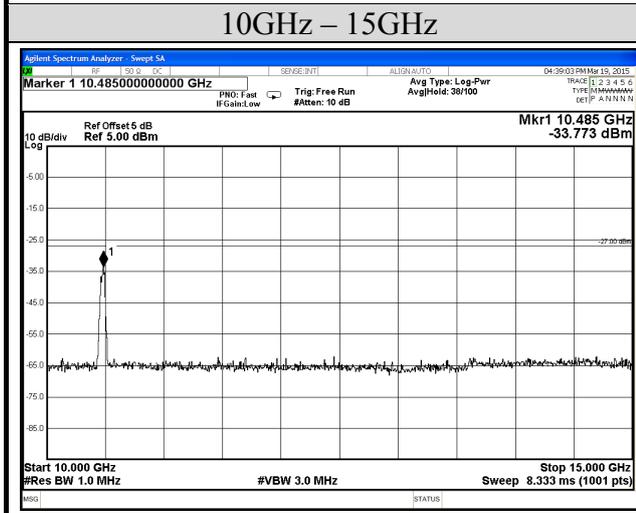
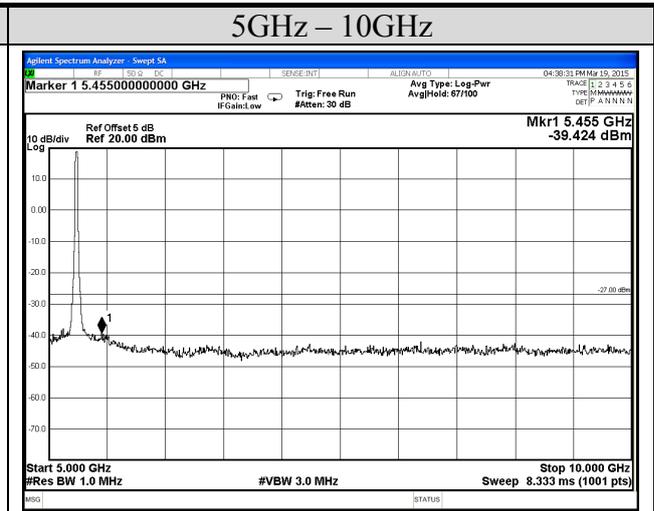
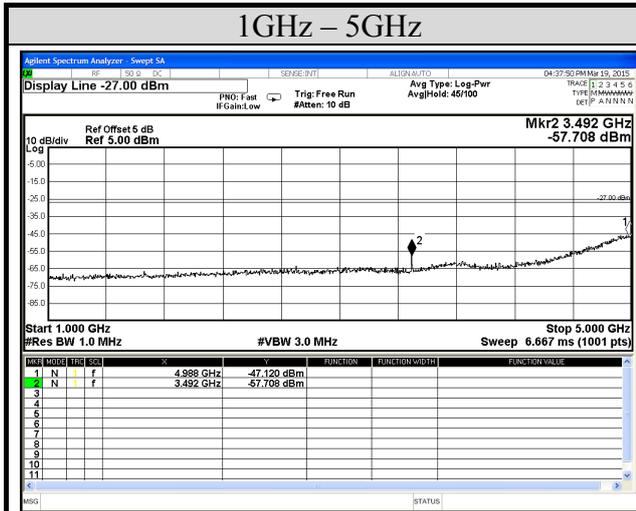


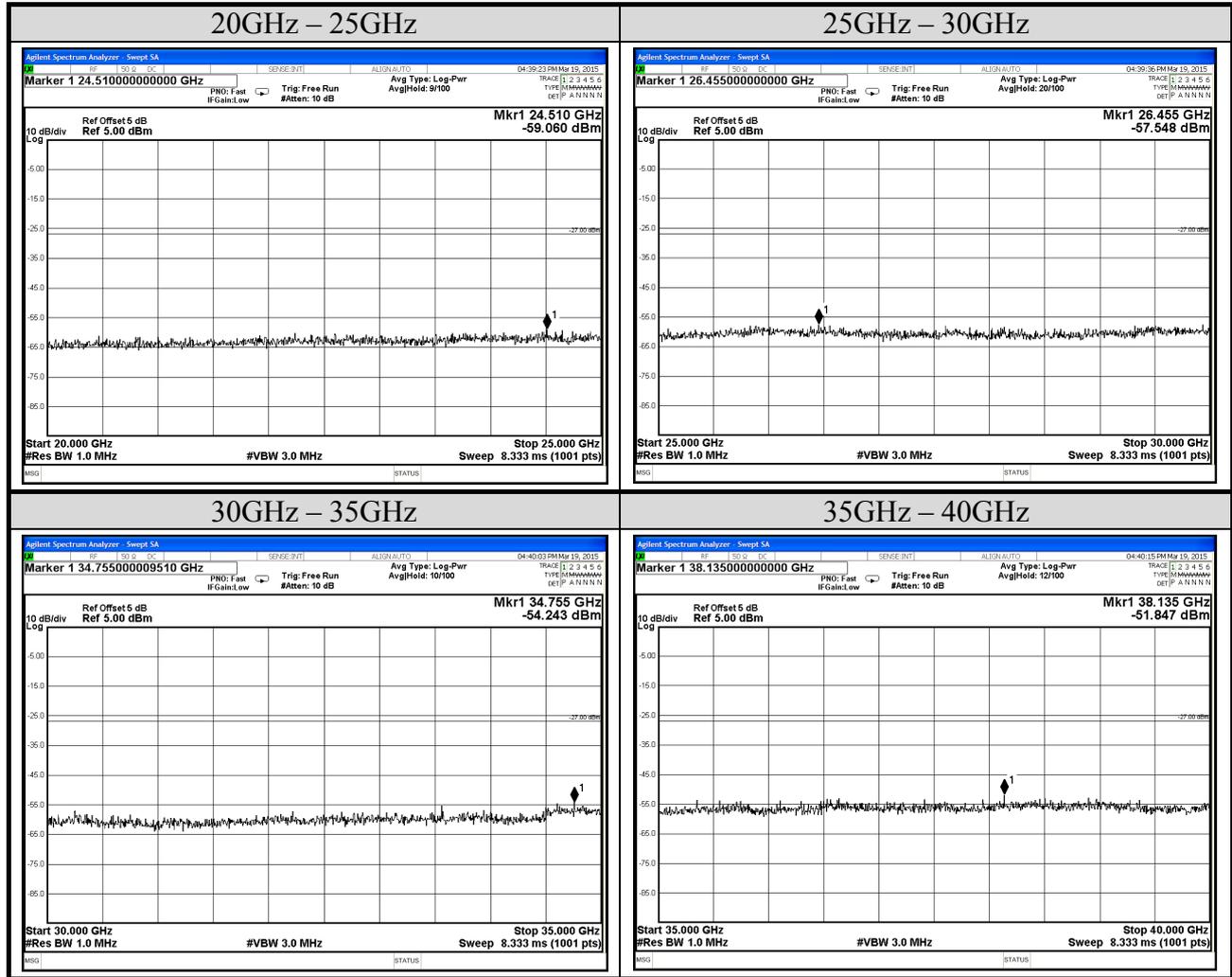
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Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



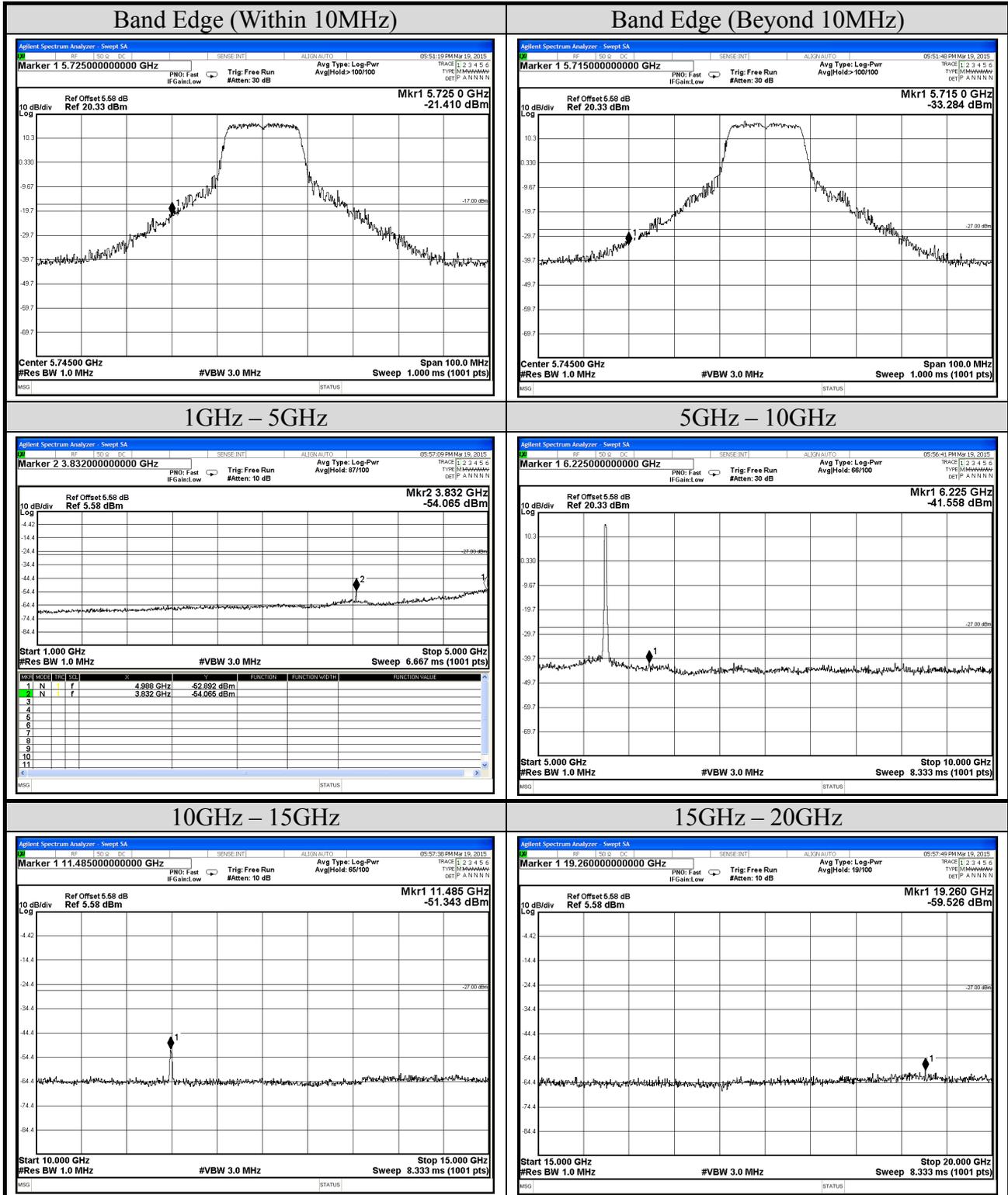


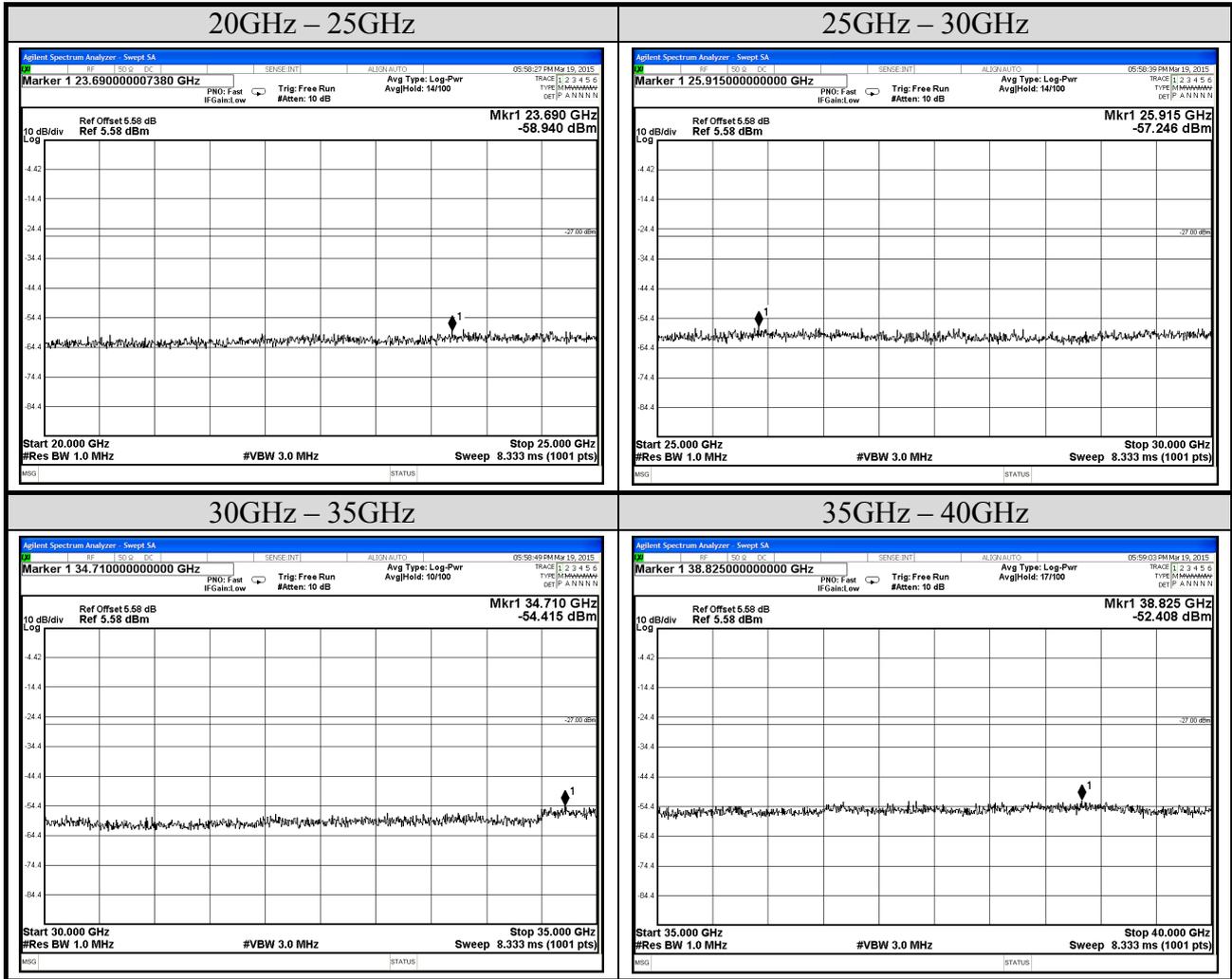
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Mode	802.11a	UNII Band	I
		Frequency	TX 5240MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



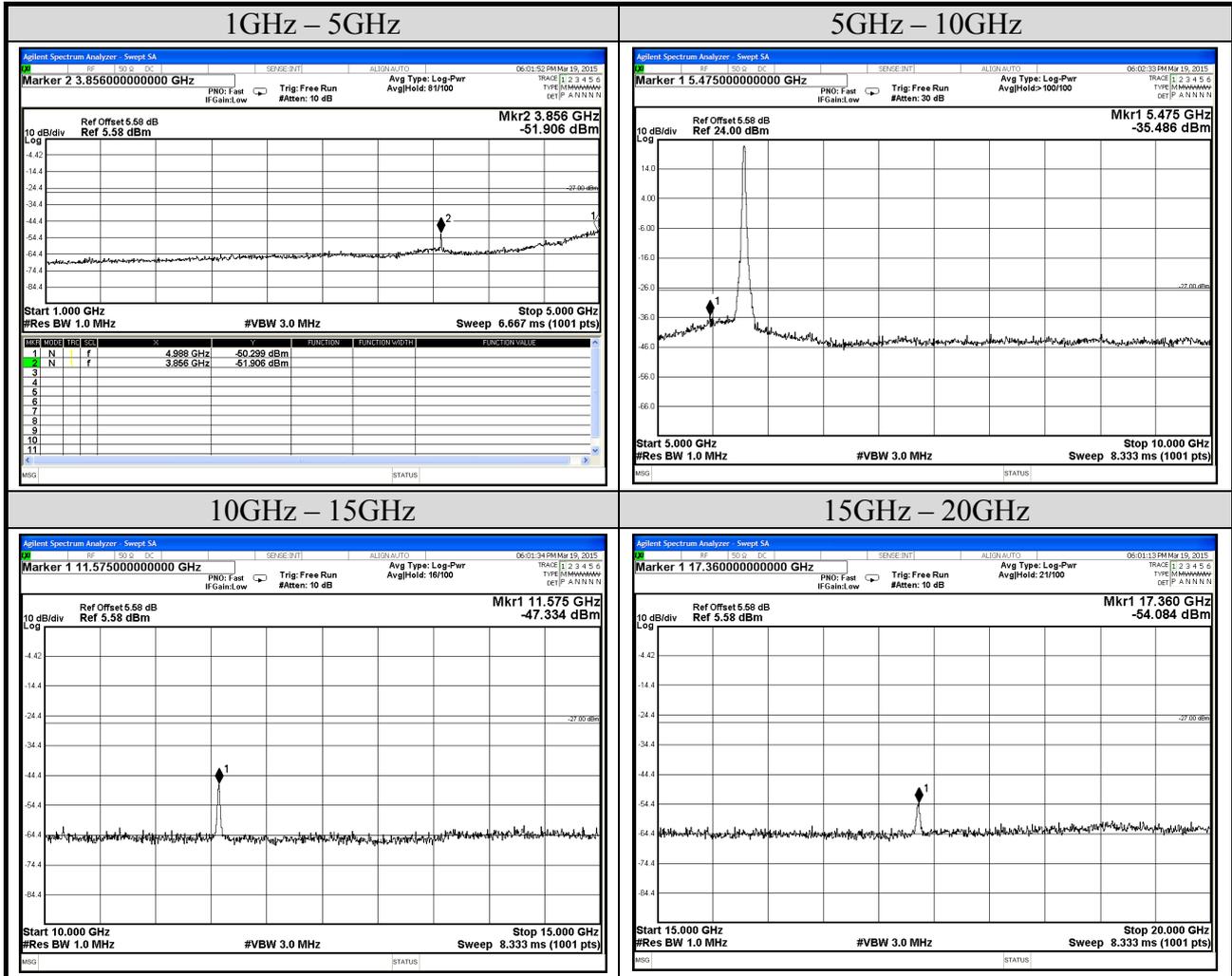


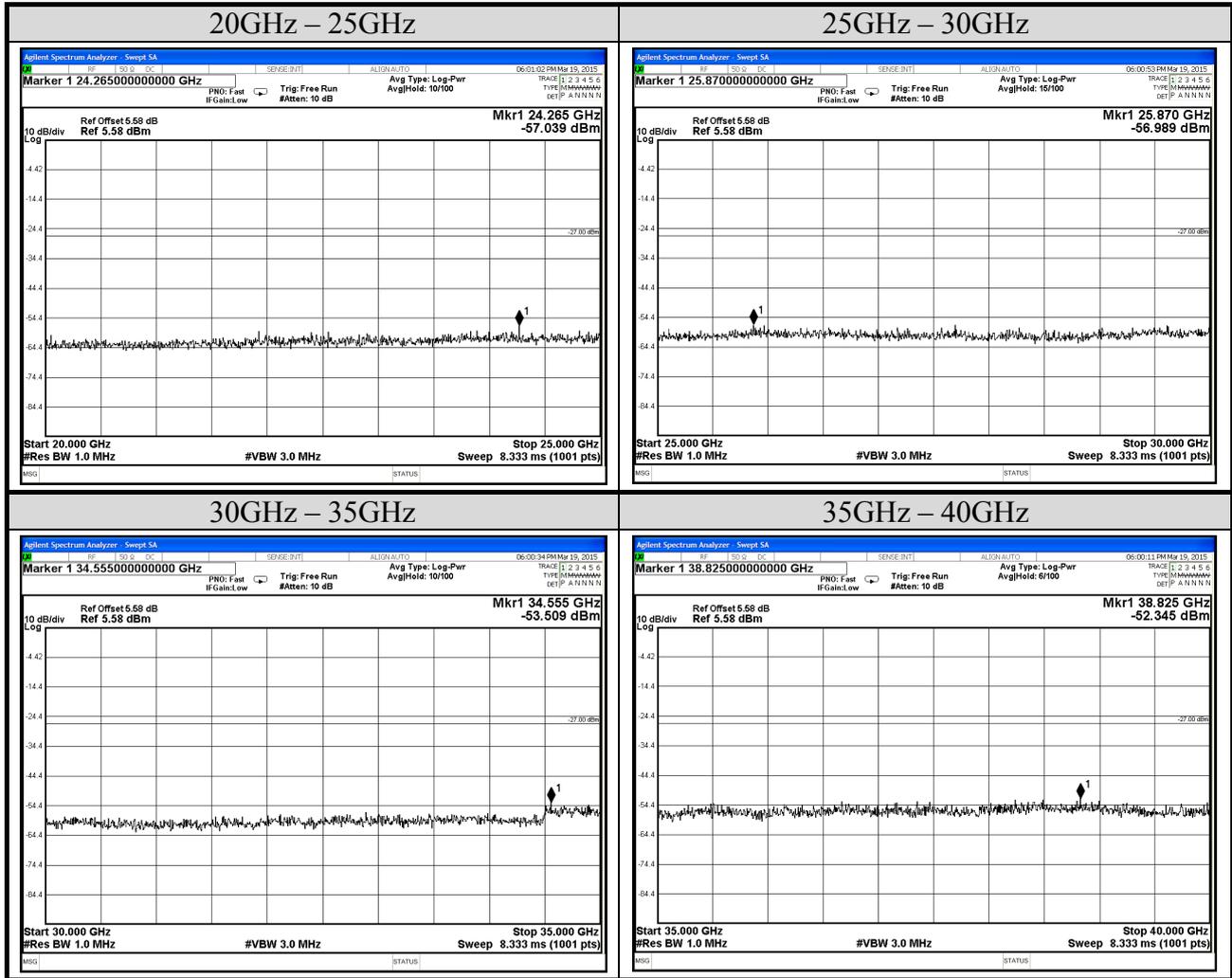
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Mode	802.11a	UNII Band	III
Cable Loss	1.5dB	Frequency	TX 5745MHz
		Test Voltage	AC 120V, 60Hz





Test Date	2015/03/19	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz





Test Date	2015/03/19	Temp./Hum.	25°C/54%
Mode	802.11a	UNII Band	III
Cable Loss	1.5dB	Frequency	TX 5825MHz
		Test Voltage	AC 120V, 60Hz

