

## A.3 EMISSION BANDWIDTH

Test Date	2017/09/21 ~ 26	Temp./Hum.	24~25°C / 55~56%
Cable Loss	---	Test Voltage	DC 3.3V (Via Notebook PC)

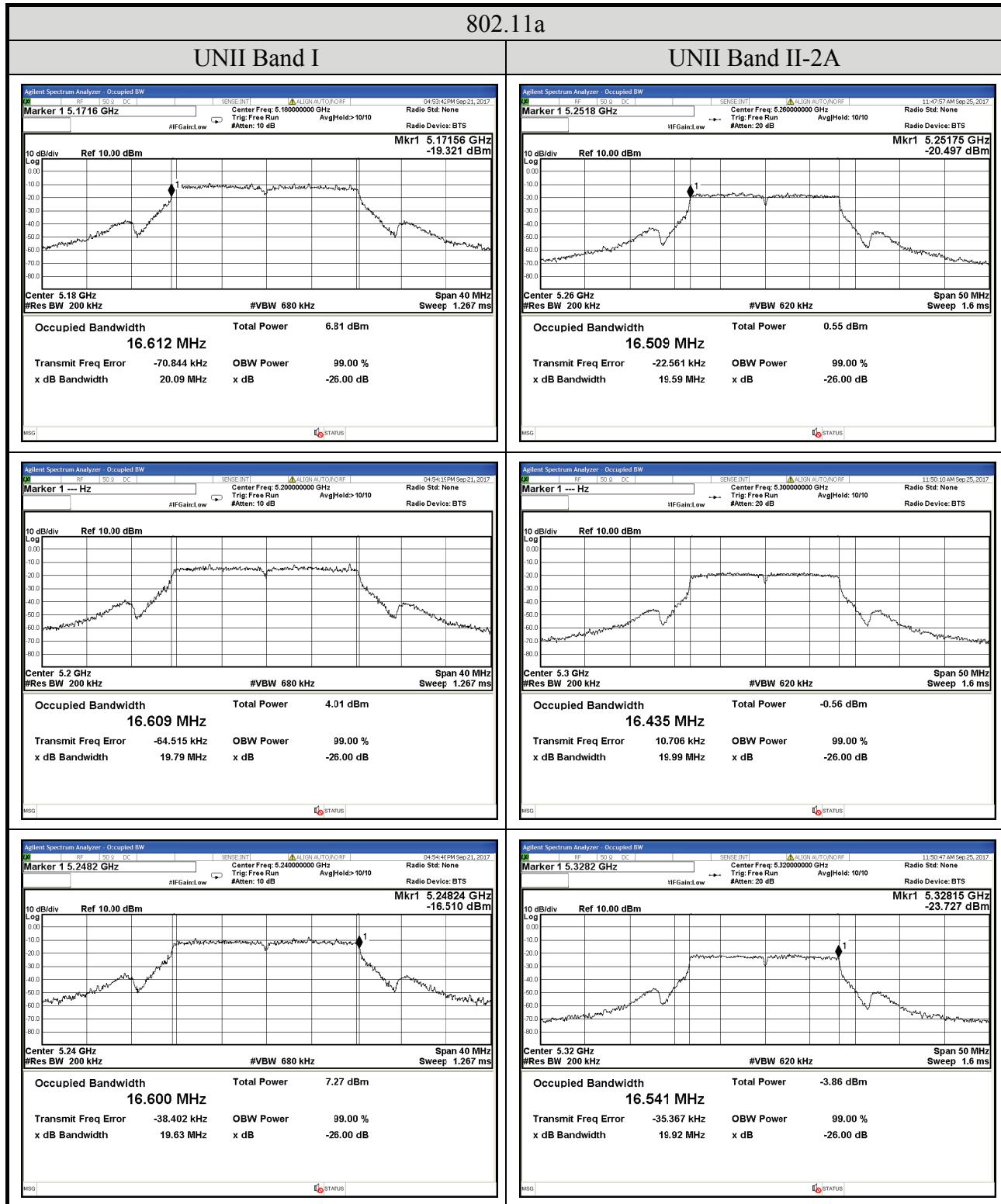
### A.3.1 Emission Bandwidth Result

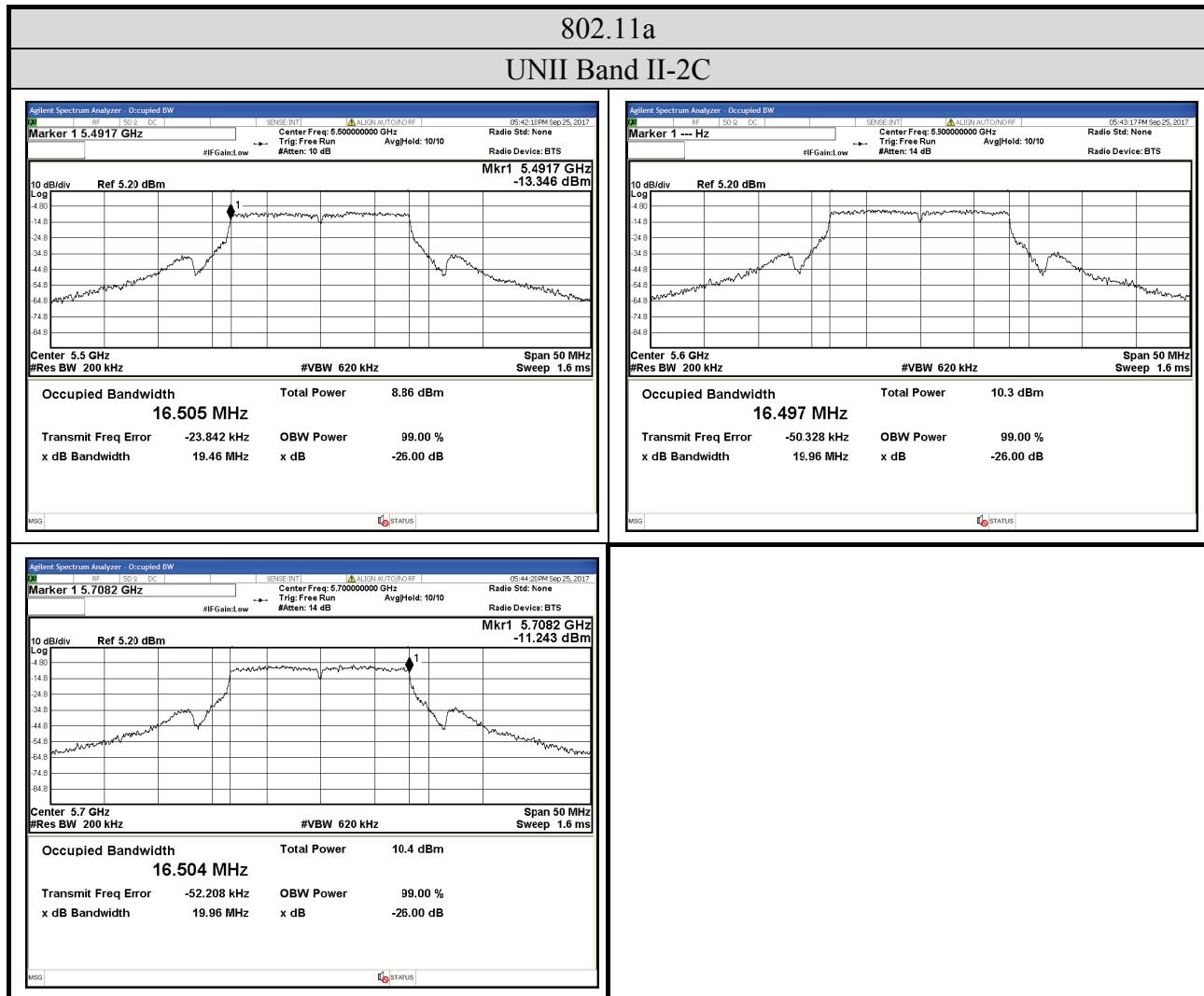
Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	20.09	16.612	Reference only
		5200	19.79	16.609	
		5240	19.63	16.600	
	II-2A	5260	19.59	16.509	
		5300	19.99	16.435	
		5320	19.92	16.541	
	II-2C	5500	19.46	16.505	
		5600	19.96	16.497	
		5700	19.96	16.504	
802.11n- HT20	I	5180	20.42	17.689	Reference only
		5200	20.62	17.735	
		5240	20.41	17.716	
	II-2A	5260	20.41	17.715	
		5300	20.60	17.735	
		5320	20.57	17.733	
	II-2C	5500	20.36	17.724	
		5600	20.47	17.708	
		5700	20.43	17.745	

Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11n- HT40	I	5190	39.34	36.197	Reference only
		5230	38.94	36.129	
	II-2A	5270	39.65	36.200	
		5310	39.69	36.186	
	II-2C	5510	39.09	36.150	
		5590	39.00	36.175	
		5670	39.21	36.213	

Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	16.37	$\geq 500\text{kHz}$
		5785	16.41	
		5825	16.41	
802.11n- HT20	III	5745	17.63	$\geq 500\text{kHz}$
		5785	17.60	
		5825	17.61	
802.11n- HT40	III	5755	35.76	$\geq 500\text{kHz}$
		5795	36.02	

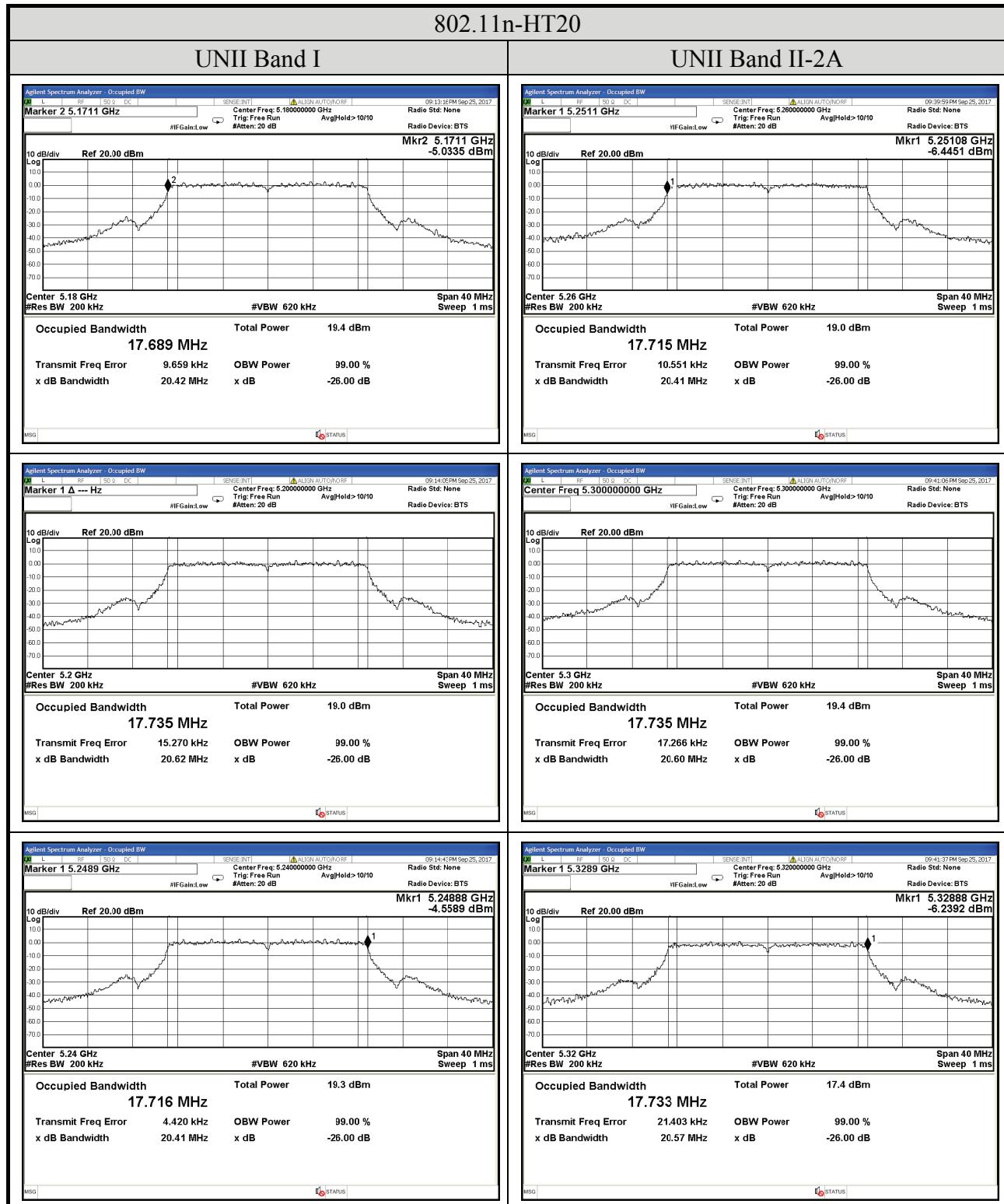
### A.3.2 Measurement Plots





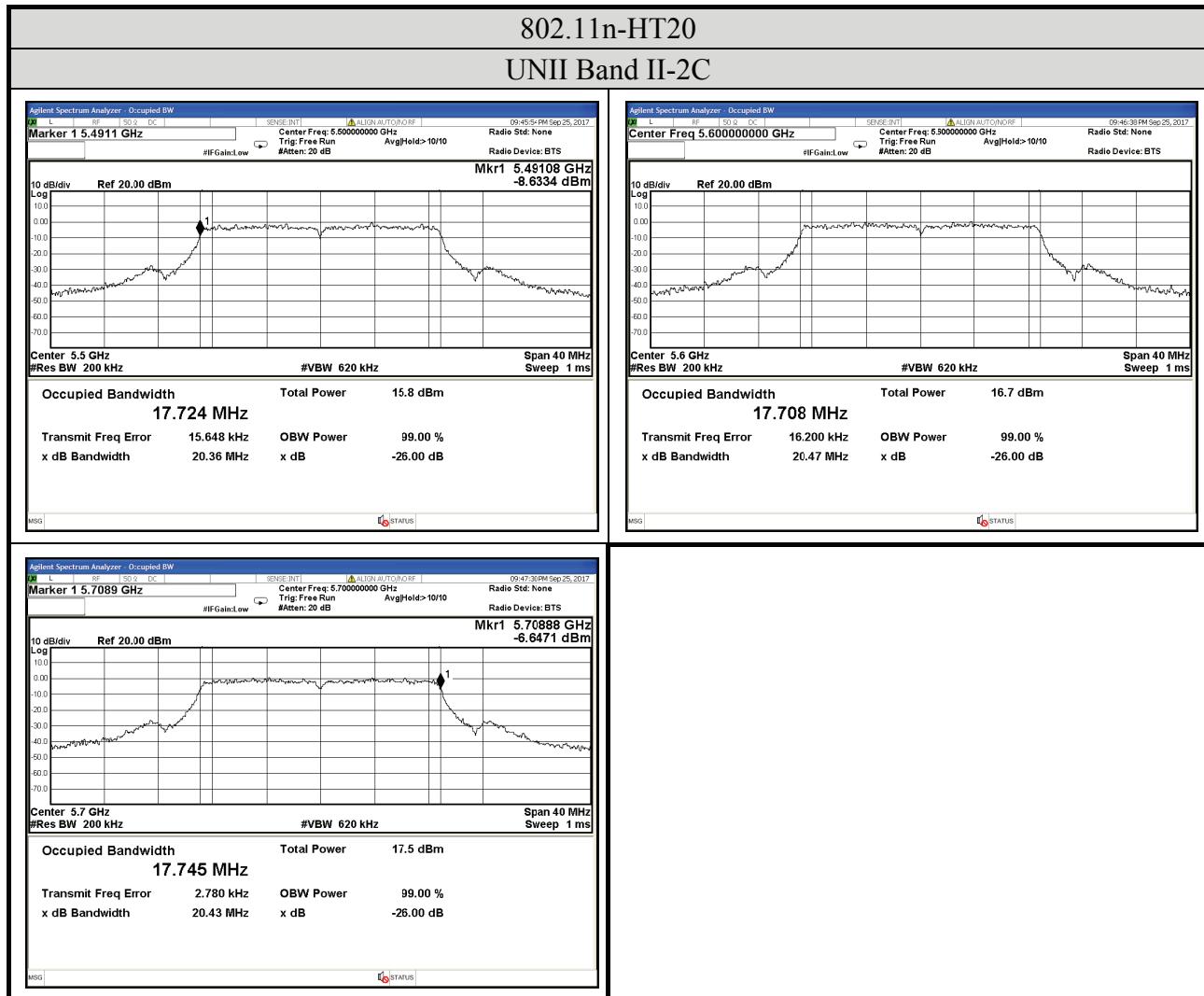
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New Taipei City244, Taiwan

Tel: +886 2 26099301  
Fax: +886 2 26099303



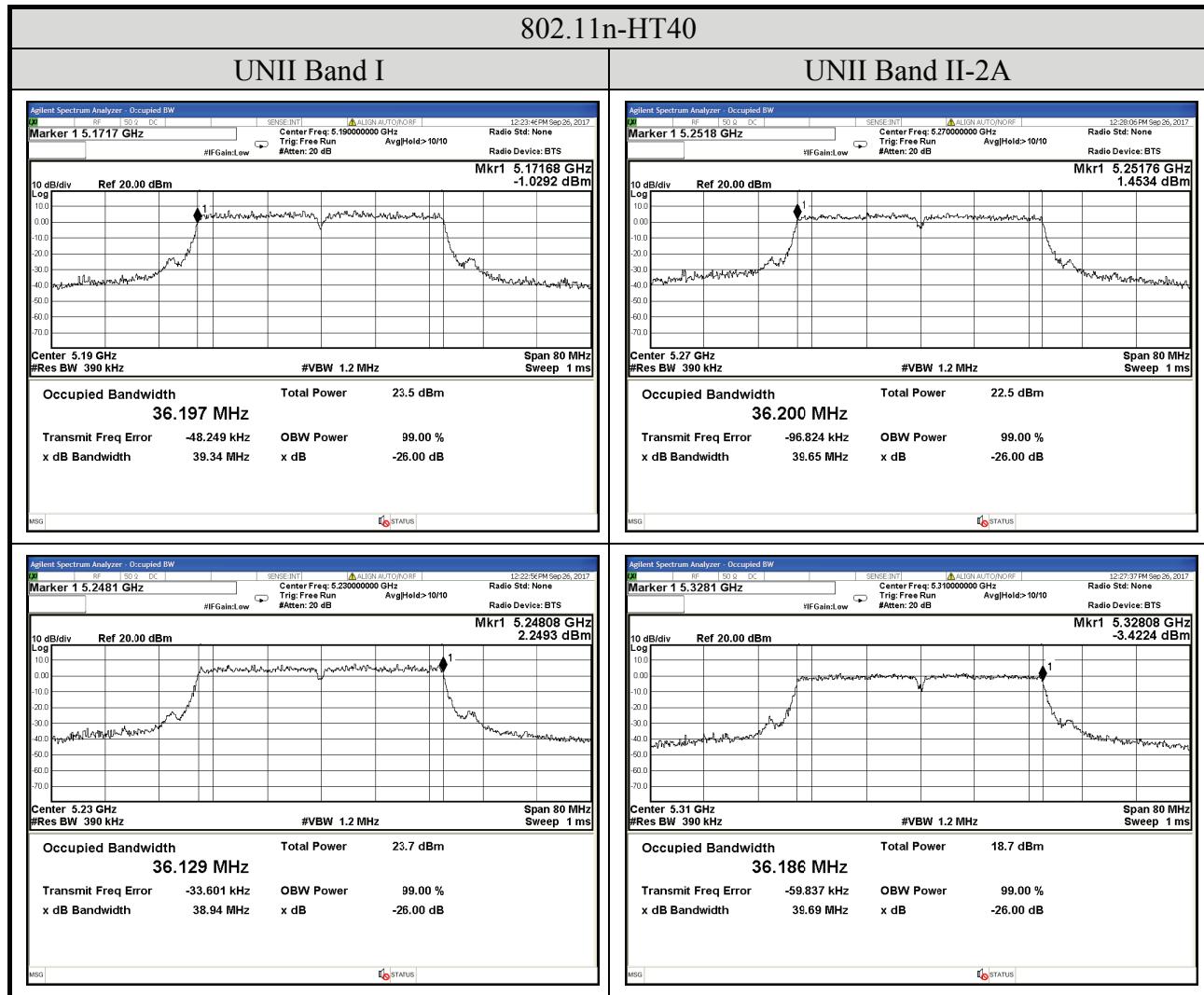
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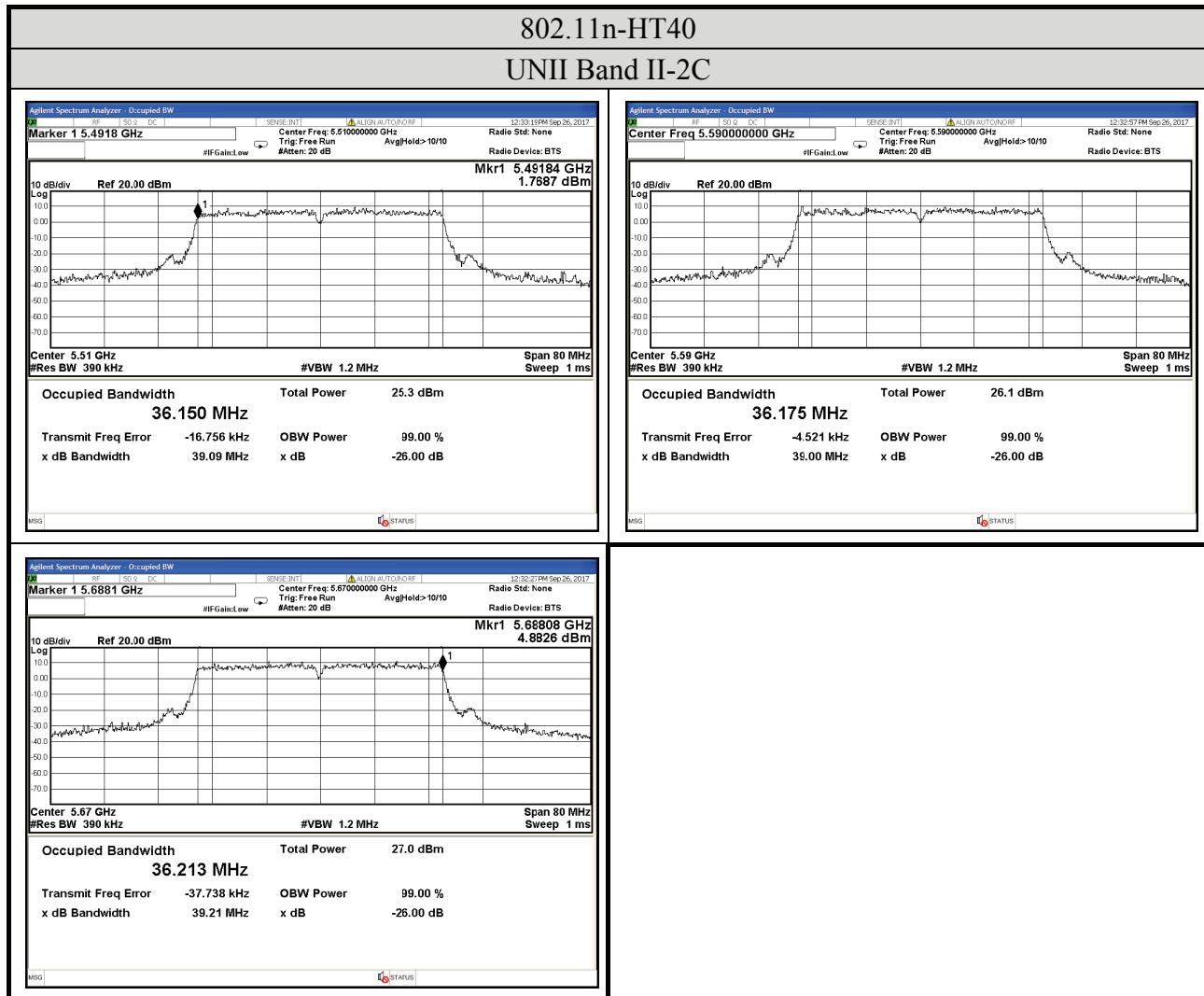
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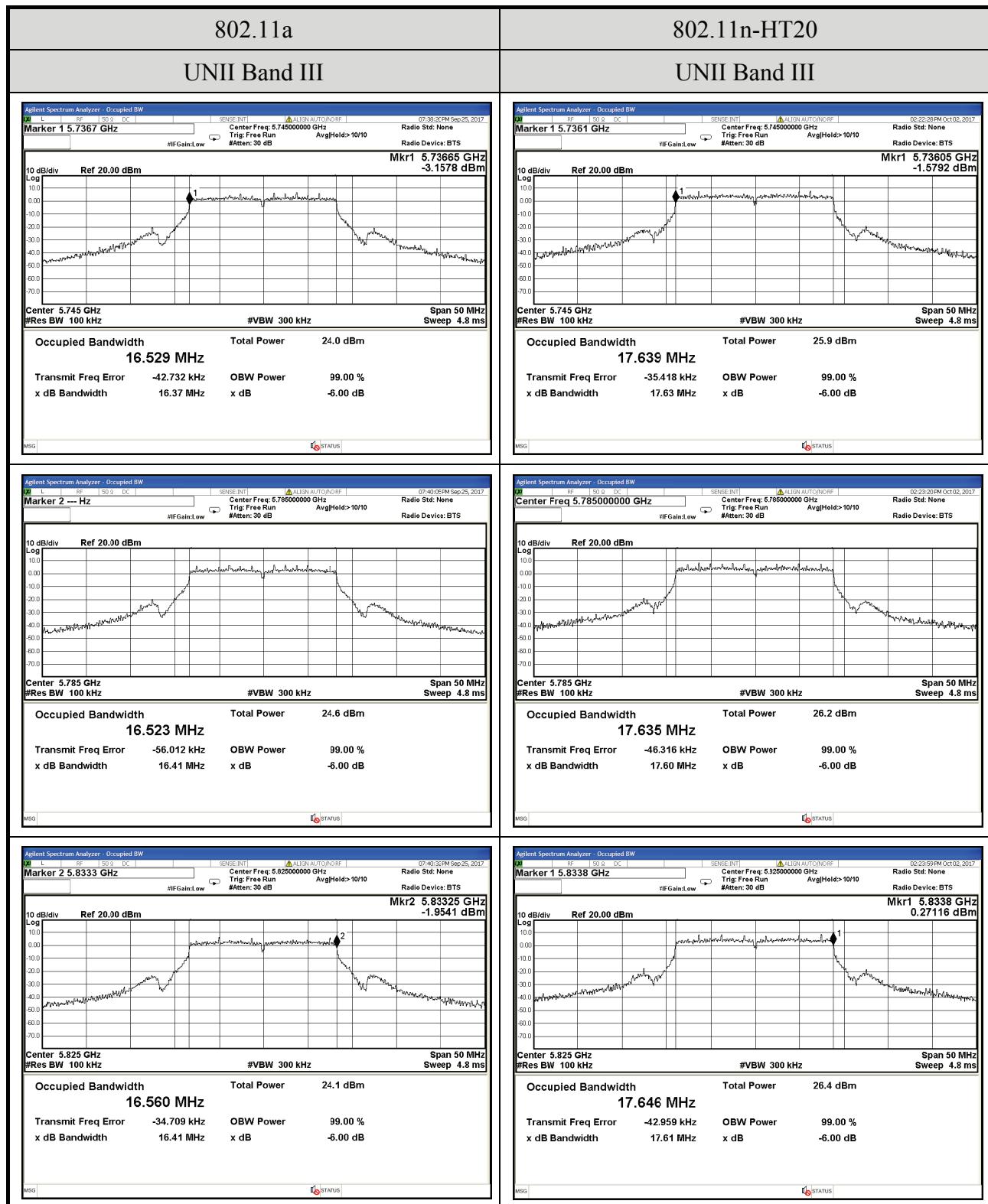
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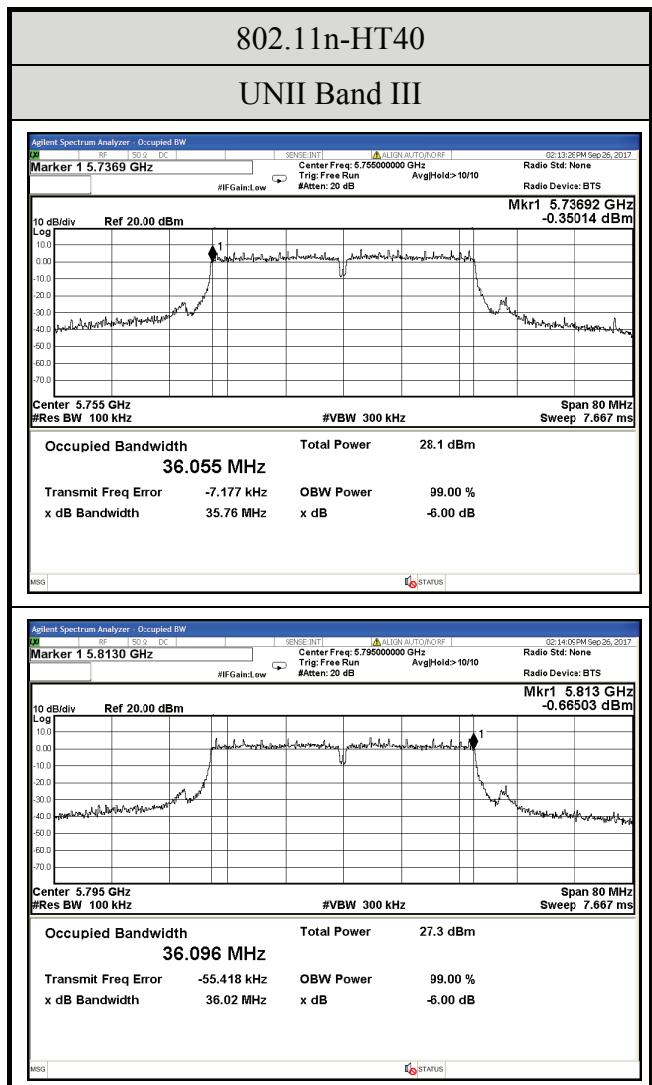
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## A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2017/03/09	Temp./Hum.	24°C/56%
Cable Loss	4dB	Test Voltage	DC 3.3V (Via Notebook PC)

### A.4.1 Average Output Power

Antenna: PCB Antenna

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	I	5180	6.46	2.98	0.33	6.79	0.004775	< 250 mW (24 dBm)
		5200	6.83	3.44		7.16	0.005200	
		5240	6.65	3.34		6.98	0.004989	
	II-2A	5260	12.53	10.32		12.86	0.019320	
		5300	12.57	10.40		12.90	0.019498	
		5320	10.54	8.40		10.87	0.012218	
	II-2C	5500	11.07	10.82		11.40	0.013804	< 1 W (30 dBm)
		5600	10.33	10.46		10.79	0.011995	
		5700	11.31	11.29		11.64	0.014588	
	III	5745	11.27	11.03		11.60	0.014454	
		5785	11.47	11.42		11.80	0.015136	
		5825	11.89	11.76		12.22	0.016672	

Note: The results have been included cable loss.

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT20	I	5180	6.54	3.27	0.36	8.58	0.007211	< 250 mW (24 dBm)
		5200	6.78	3.45		8.80	0.007586	
		5240	6.76	3.82		8.91	0.007780	
	II-2A	5260	12.63	10.62		15.11	0.032434	
		5300	12.46	10.74		15.06	0.032063	
		5320	10.78	8.68		13.23	0.021038	
	II-2C	5500	11.17	11.06		14.49	0.028119	
		5600	10.53	10.47		13.87	0.024378	
		5700	11.46	11.41		14.81	0.030269	
	III	5745	11.34	11.53		14.81	0.030269	< 1 W (30 dBm)
		5785	11.47	11.61		14.91	0.030974	
		5825	11.98	12.03		15.38	0.034514	
802.11n-HT40	I	5190	7.68	5.67	0.71	10.51	0.011246	< 250 mW (24 dBm)
		5230	7.73	5.76		10.57	0.011402	
	II-2A	5270	11.48	10.67		14.81	0.030269	
		5310	7.88	5.86		10.70	0.011749	
	II-2C	5510	10.07	10.42		13.96	0.024889	
		5590	9.45	9.97		13.43	0.022029	
		5670	10.14	10.72		14.16	0.026062	
	III	5755	10.06	10.67		14.09	0.025645	< 1 W (30 dBm)
		5795	10.38	11.02		14.43	0.027733	

Note: The results have been included cable loss.

Antenna: Omni-S Antenna

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	I	5180	10.53	9.26	0.33	10.86	0.012190	< 158 mW (22 dBm) Note 2
		5200	10.69	8.95		11.02	0.012647	
		5240	10.62	9.29		10.95	0.012445	
	II-2A	5260	12.45	10.86		12.78	0.018967	
		5300	11.82	11.28		12.15	0.016406	
		5320	10.27	9.71		10.60	0.011482	
	II-2C	5500	10.67	11.48		11.81	0.015171	
		5600	11.71	12.44		12.77	0.018923	
		5700	11.63	13.12		13.45	0.022131	
	III	5745	11.78	12.87		13.20	0.020893	< 0.631 W (28 dBm) Note 3
		5785	11.62	12.16		12.49	0.017742	
		5825	11.94	12.22		12.55	0.017989	

Note 1: The results have been included cable loss.

Note 2: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 24 – (8-6) = 22 dBm

Note 3: 802.11a Directional gain is 8dBi > 6dBi, the Limit is 30 – (8-6) = 28 dBm

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT20	I	5180	10.70	9.27	0.36	11.06	0.012764	< 158 mW (22 dBm) Note 2
		5200	10.53	9.85		10.89	0.012274	
		5240	10.66	10.07		11.02	0.012647	
	II-2A	5260	12.63	11.86		12.99	0.019907	
		5300	12.31	11.44		12.67	0.018493	
		5320	10.45	10.09		10.81	0.012050	
	II-2C	5500	11.38	11.95		12.31	0.017022	
		5600	11.82	12.71		13.07	0.020277	
		5700	11.70	13.25		13.61	0.022961	
	III	5745	11.91	13.20		13.56	0.022699	< 0.631 W (28 dBm) Note 3
		5785	11.76	12.98		13.34	0.021577	
		5825	12.02	13.32		13.68	0.023335	
802.11n-HT40	I	5190	7.83	5.91	0.71	8.54	0.007145	< 158 mW (22 dBm) Note 2
		5230	7.79	5.89		8.50	0.007079	
	II-2A	5270	11.37	10.15		12.08	0.016144	
		5310	7.46	5.67		8.17	0.006561	
	II-2C	5510	9.49	10.13		10.84	0.012134	
		5590	10.12	10.96		11.67	0.014689	
		5670	10.47	11.61		12.32	0.017061	
	III	5755	10.34	11.42		12.13	0.016331	< 0.631 W (28 dBm) Note 3
		5795	10.39	11.25		11.96	0.015704	

Note 1: The results have been included cable loss.

Note 2: 802.11n Directional gain is 8dBi > 6dBi, the Limit is  $24 - (8-6) = 22$  dBm

Note 3: 802.11n Directional gain is 8dBi > 6dBi, the Limit is  $30 - (8-6) = 28$  dBm

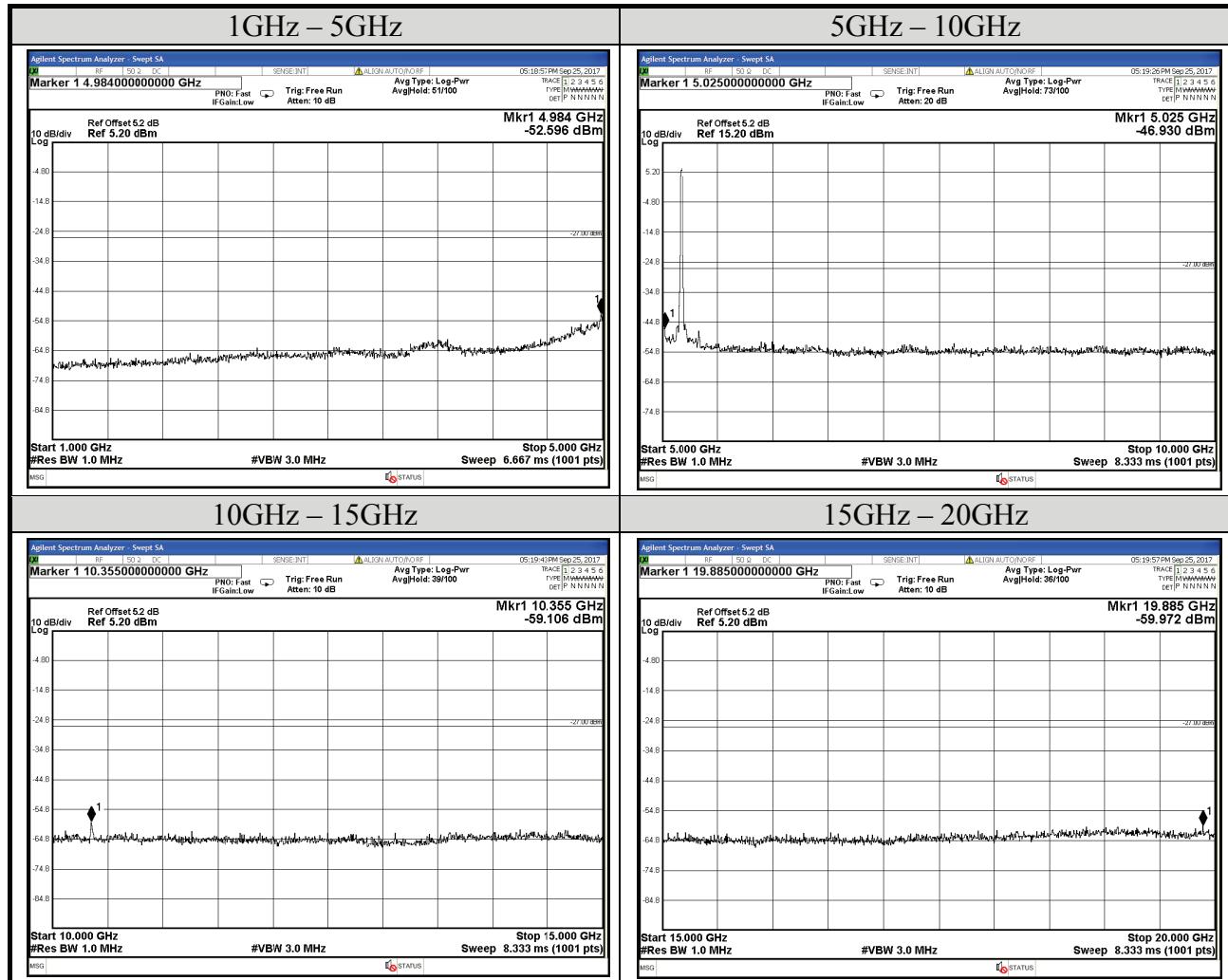
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New Taipei City244, Taiwan

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## A.5 EMISSION LIMITATIONS MEASUREMENT

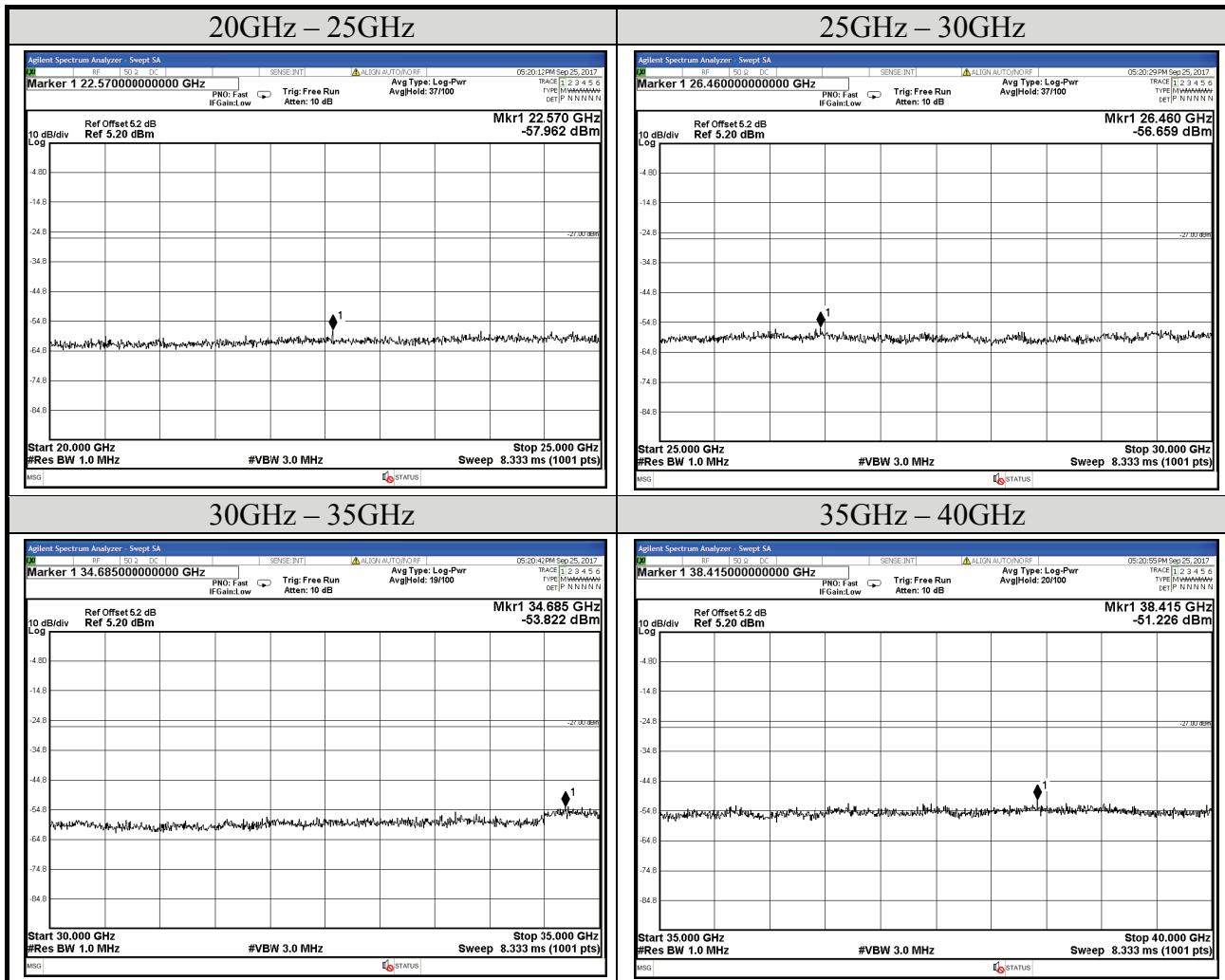
Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5180MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
			0

Antenna: PCB Antenna



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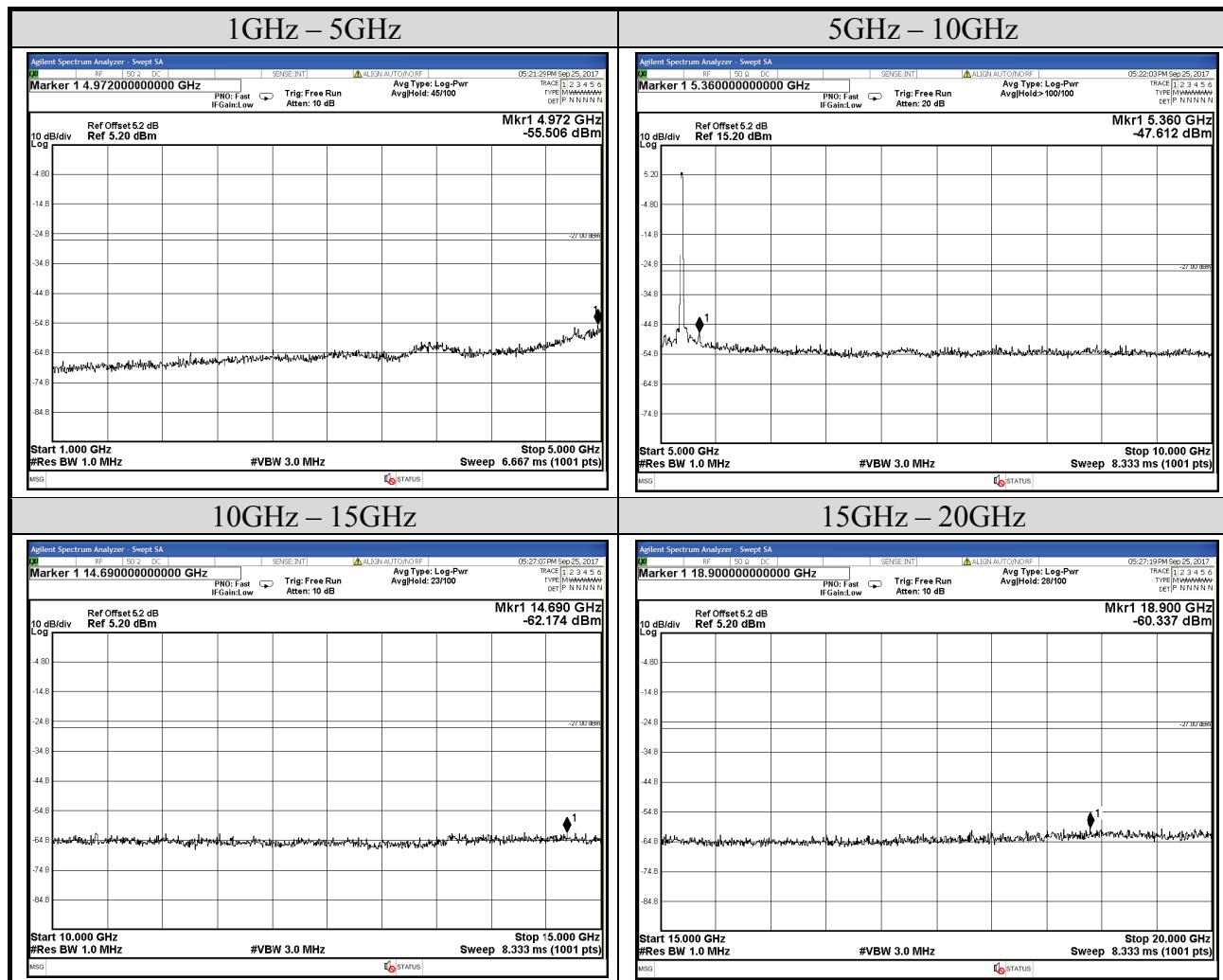
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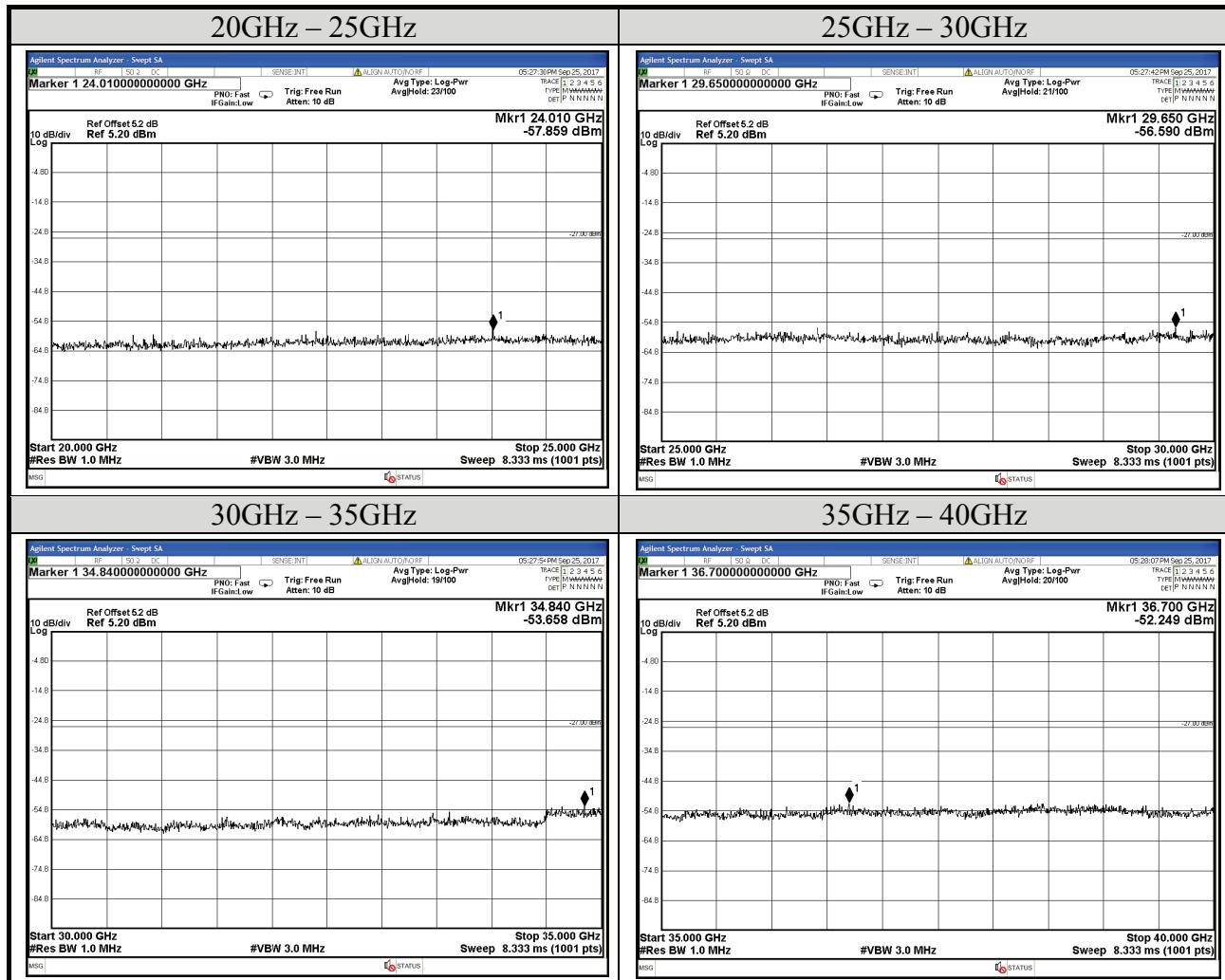
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5200MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
			0



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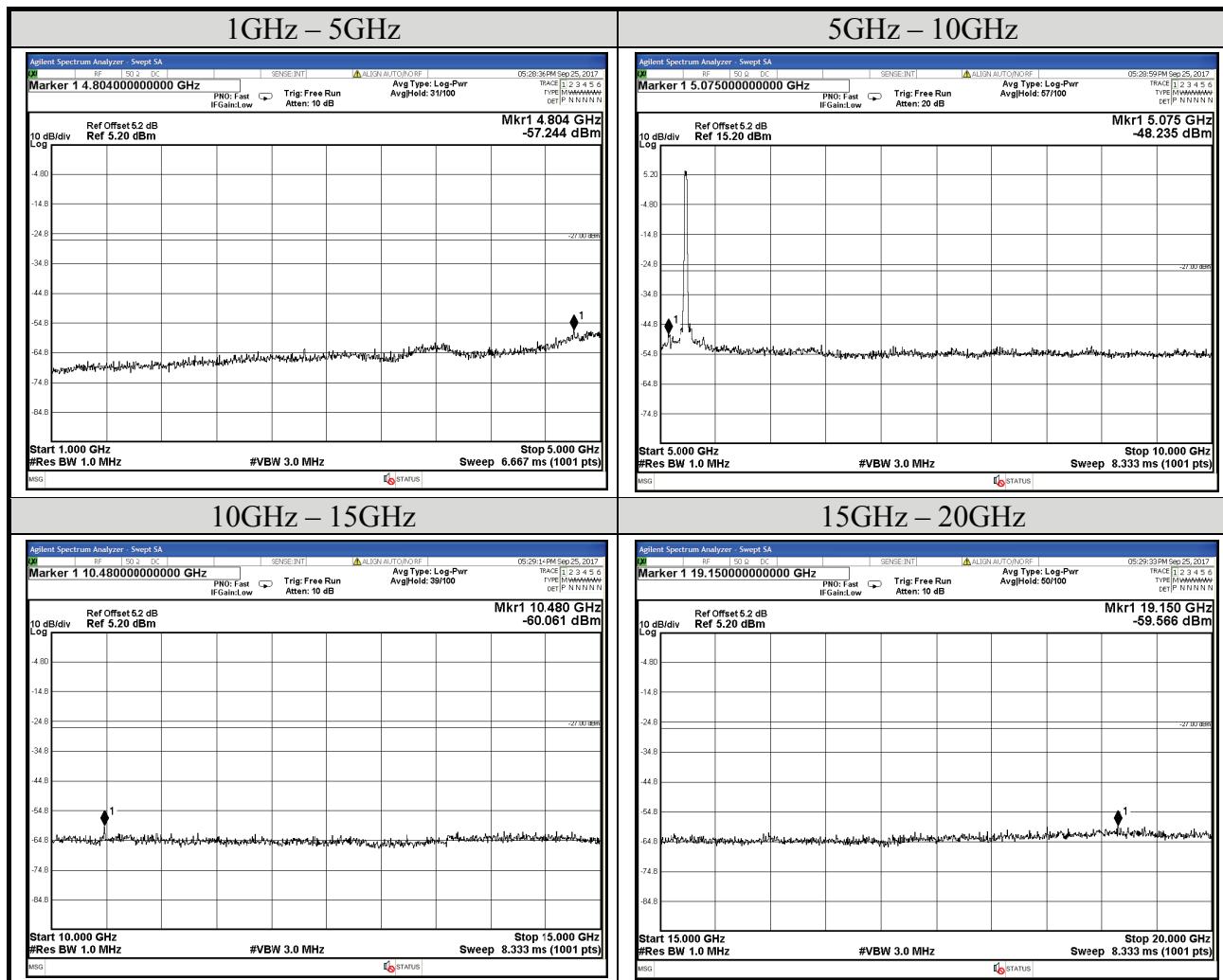
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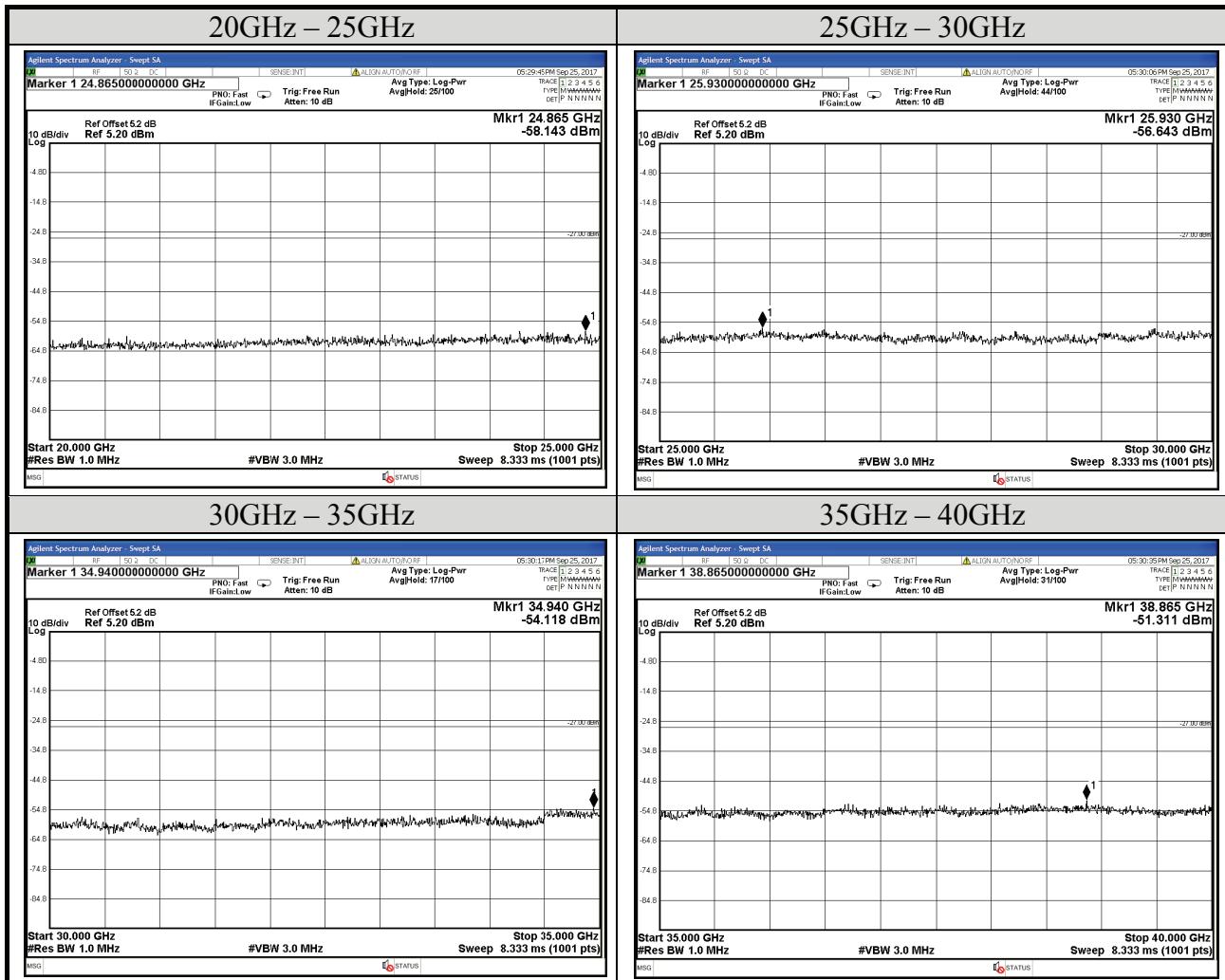
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5240MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
			0



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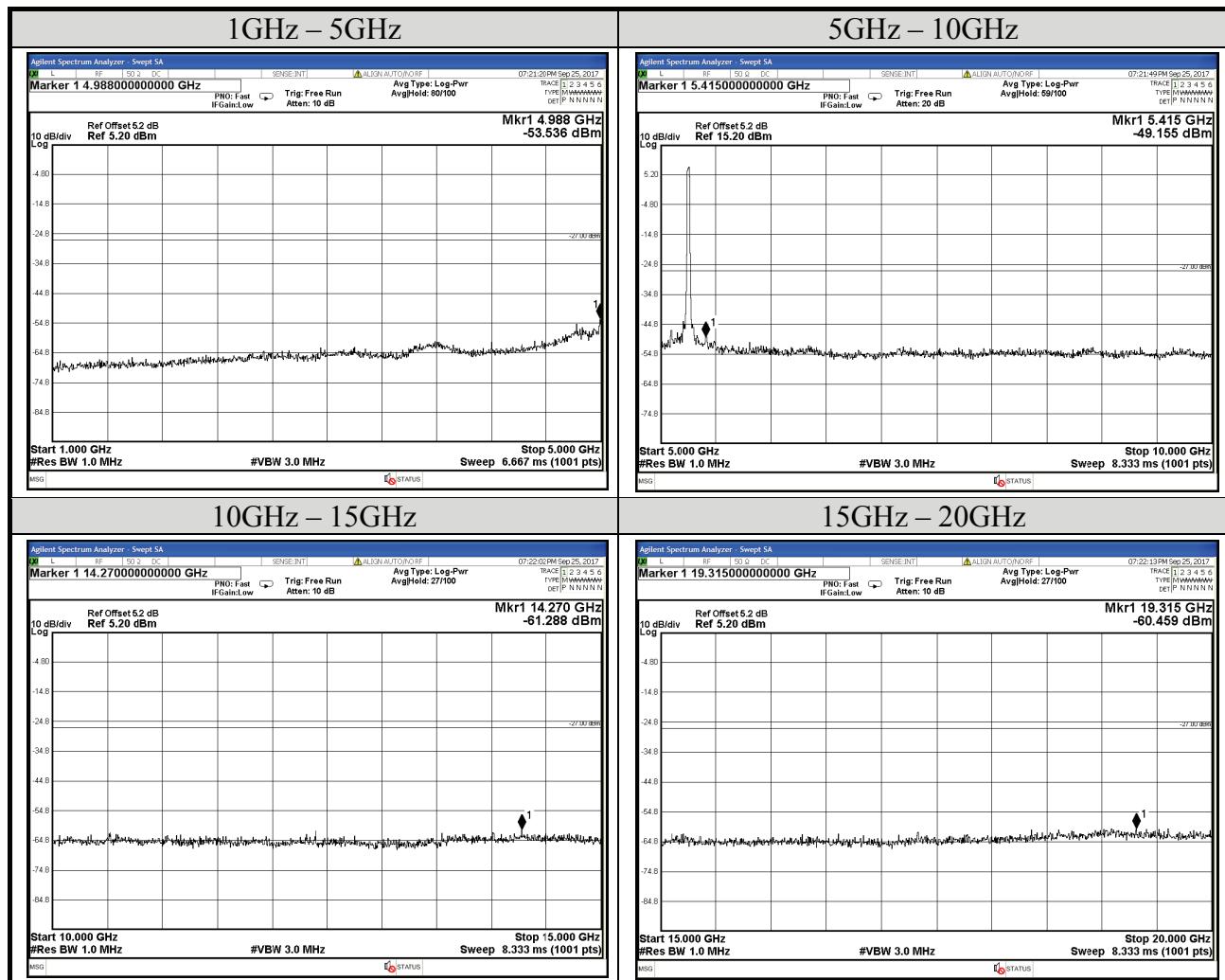
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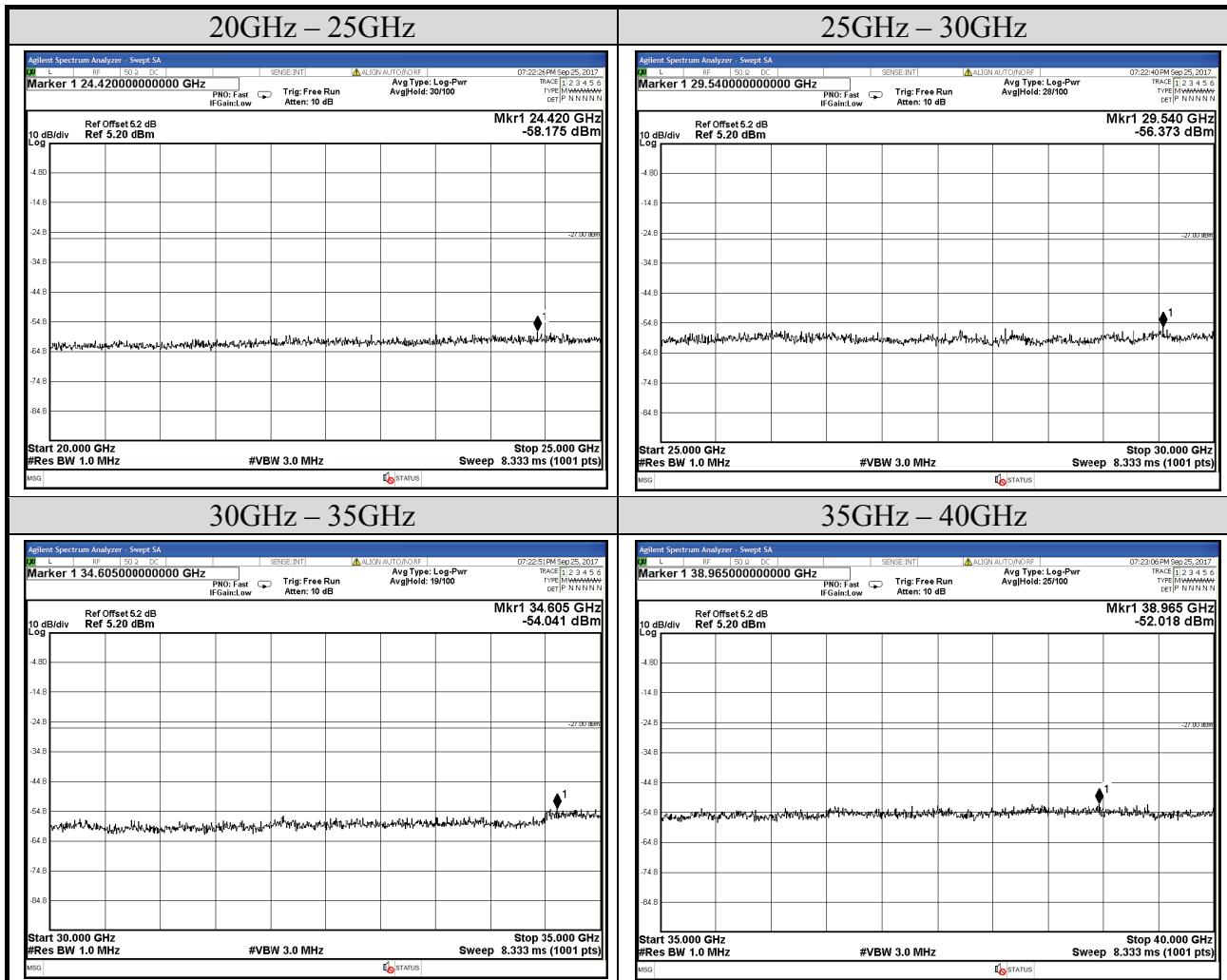
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Test Date	2017/09/25	Temp./Hum.	25°C /55%
Mode	802.11a	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5260MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	0		



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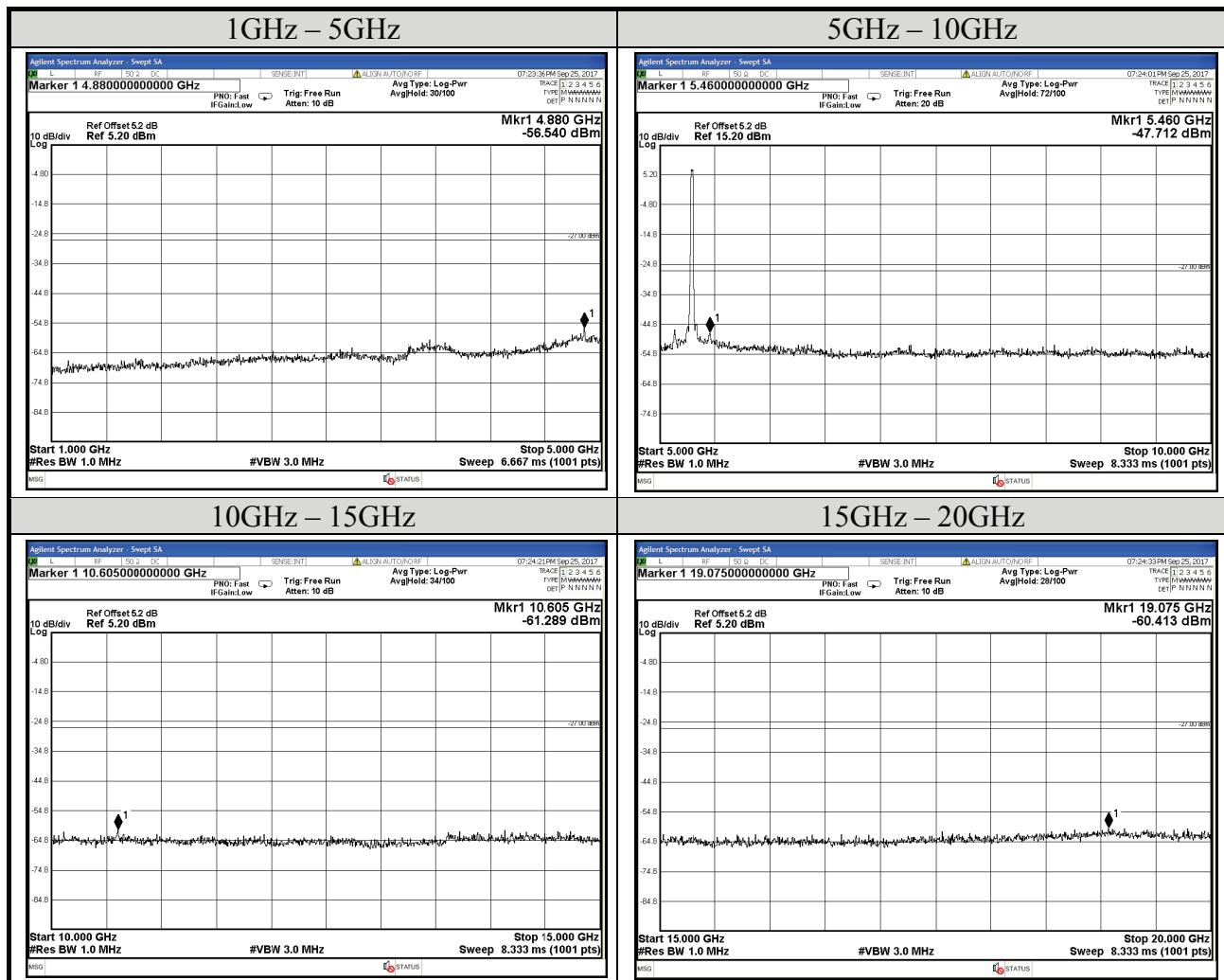
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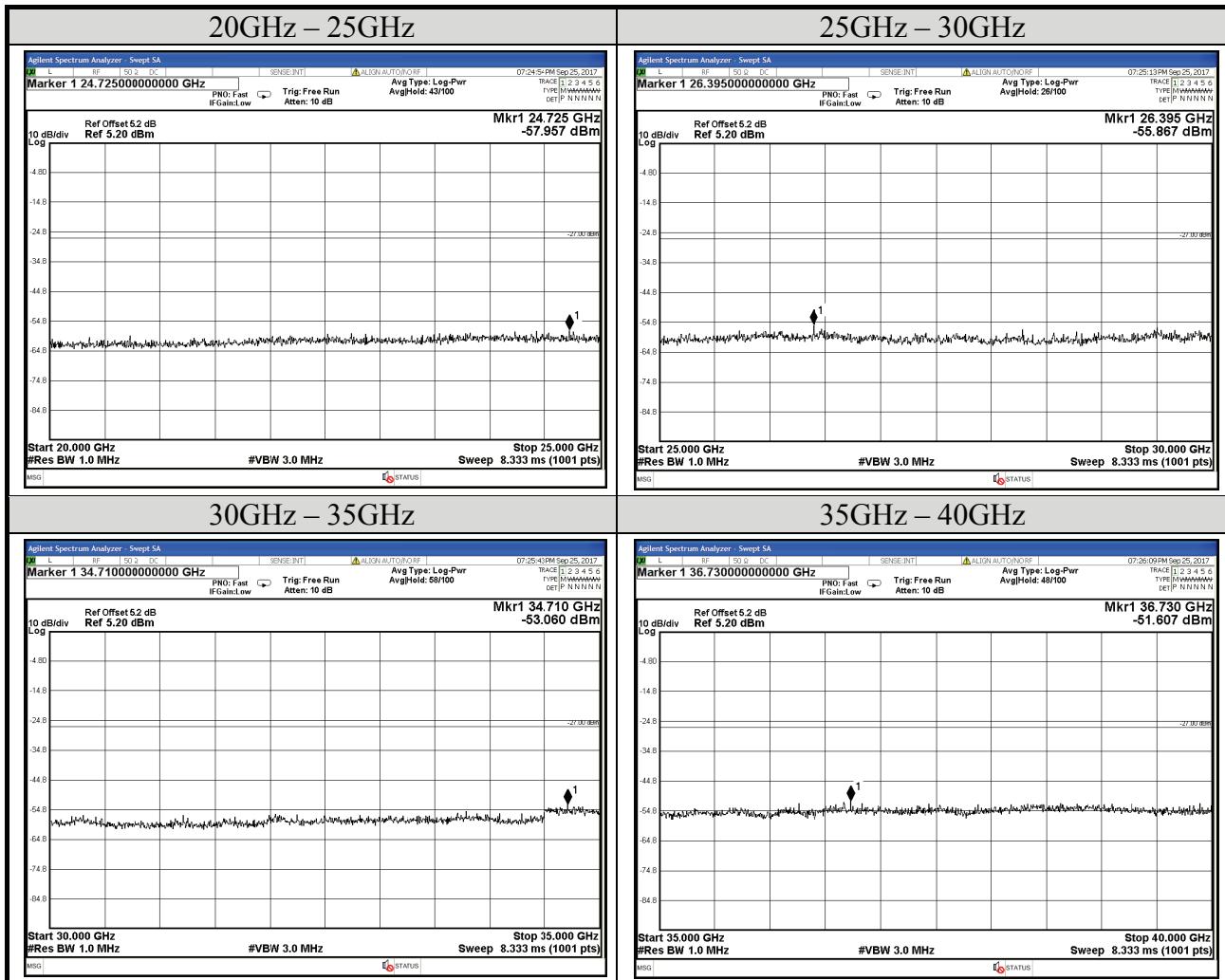
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5300MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	0		



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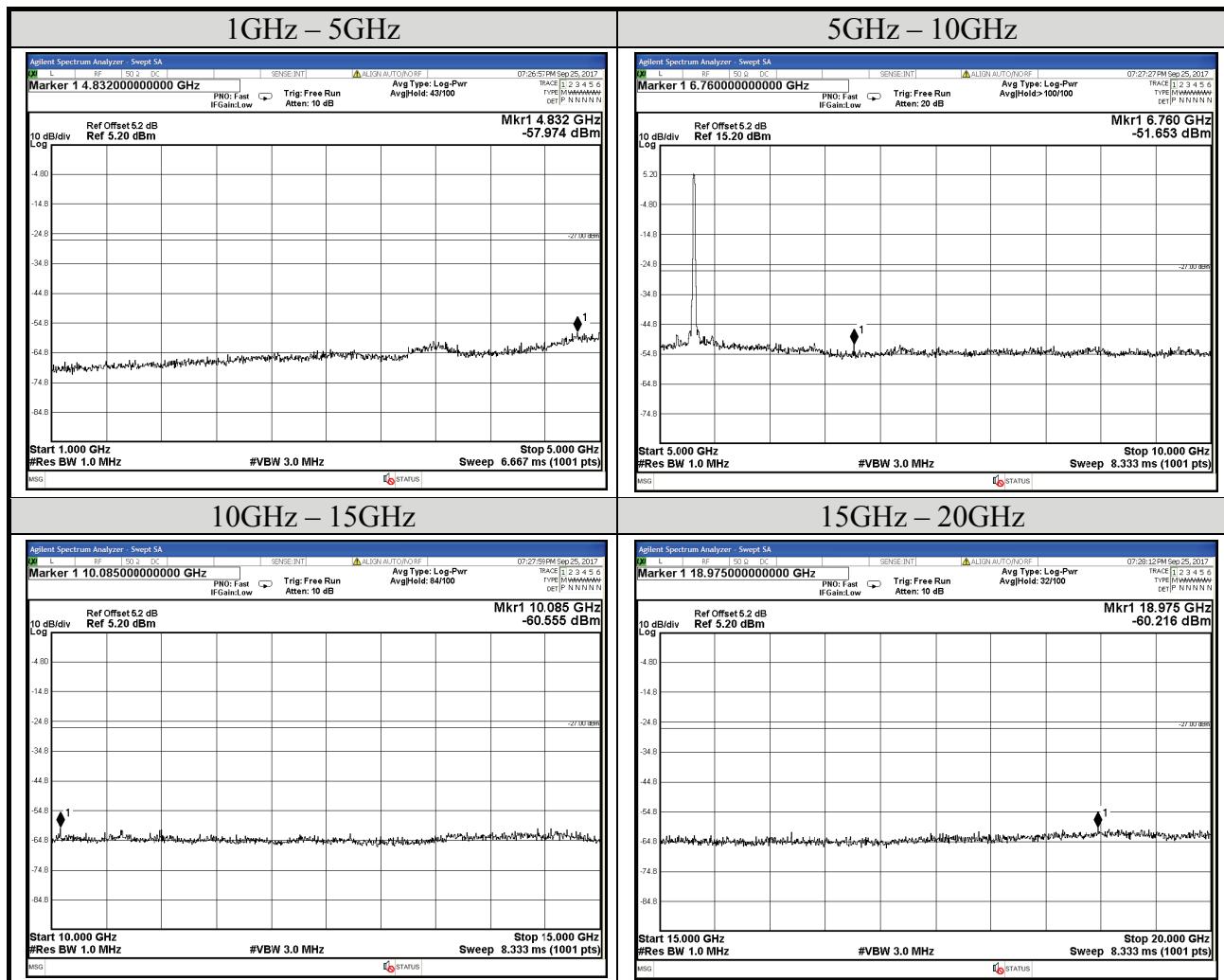
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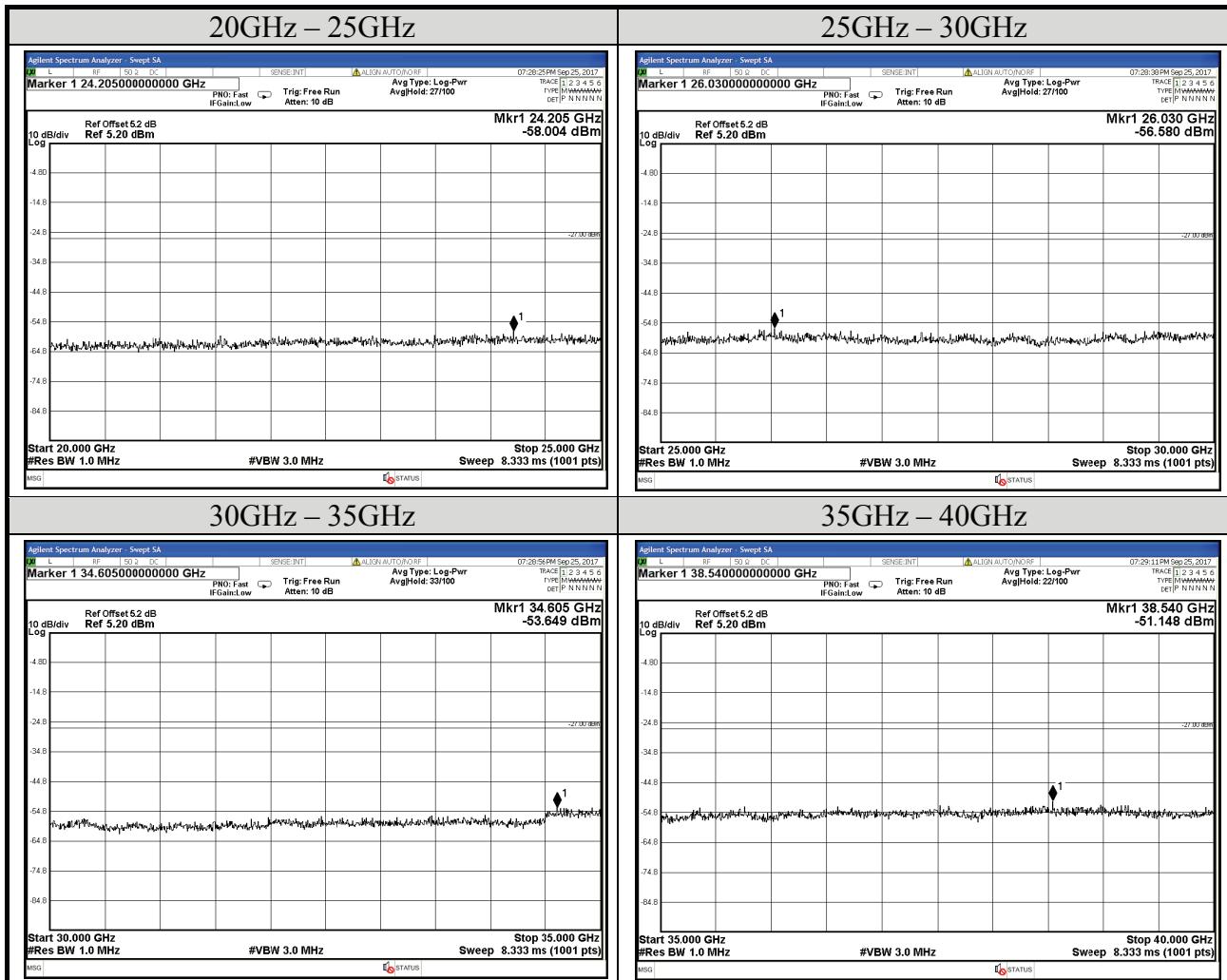
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5320MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
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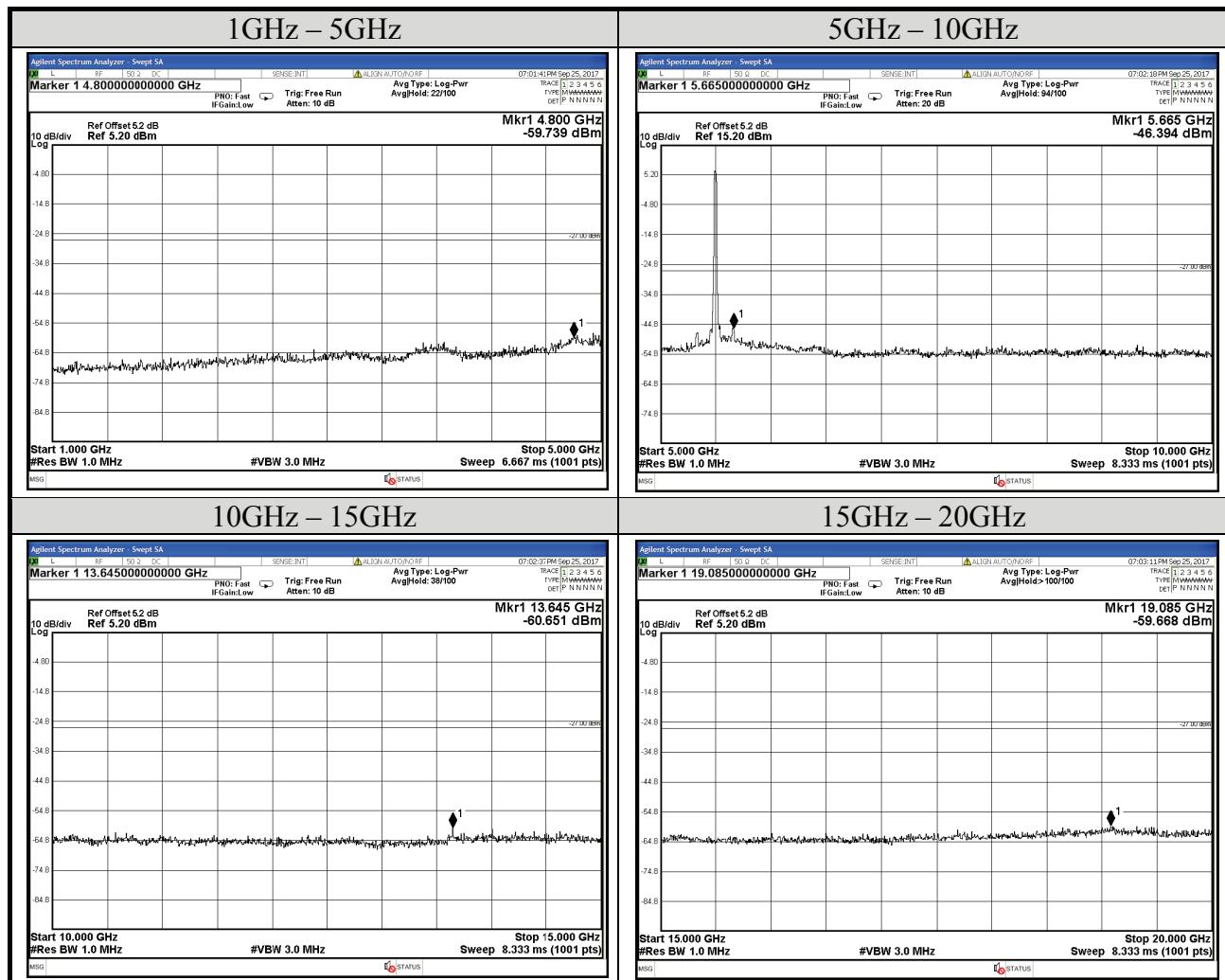
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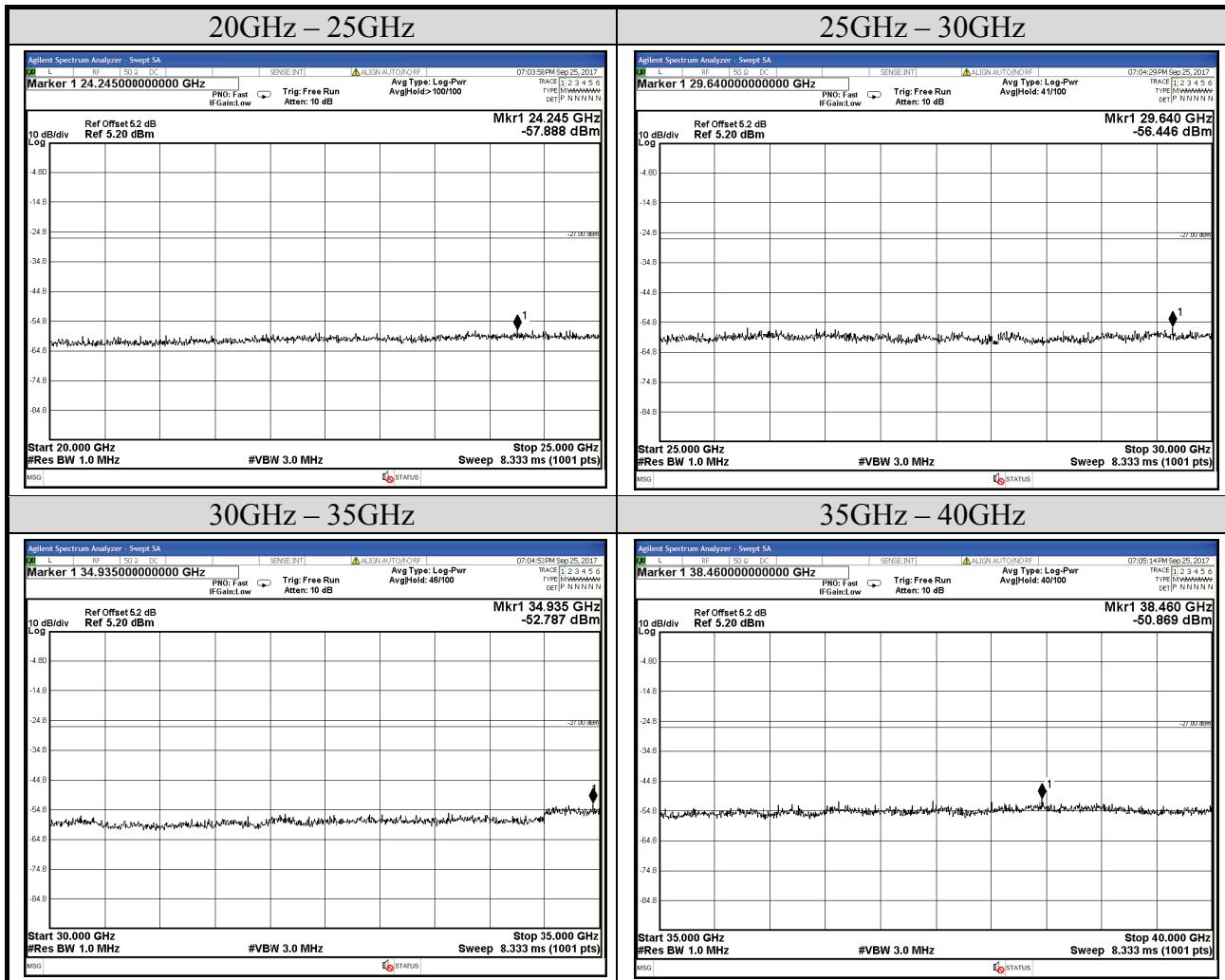
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2C
Cable Loss	4.2dB	Frequency	TX 5500MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
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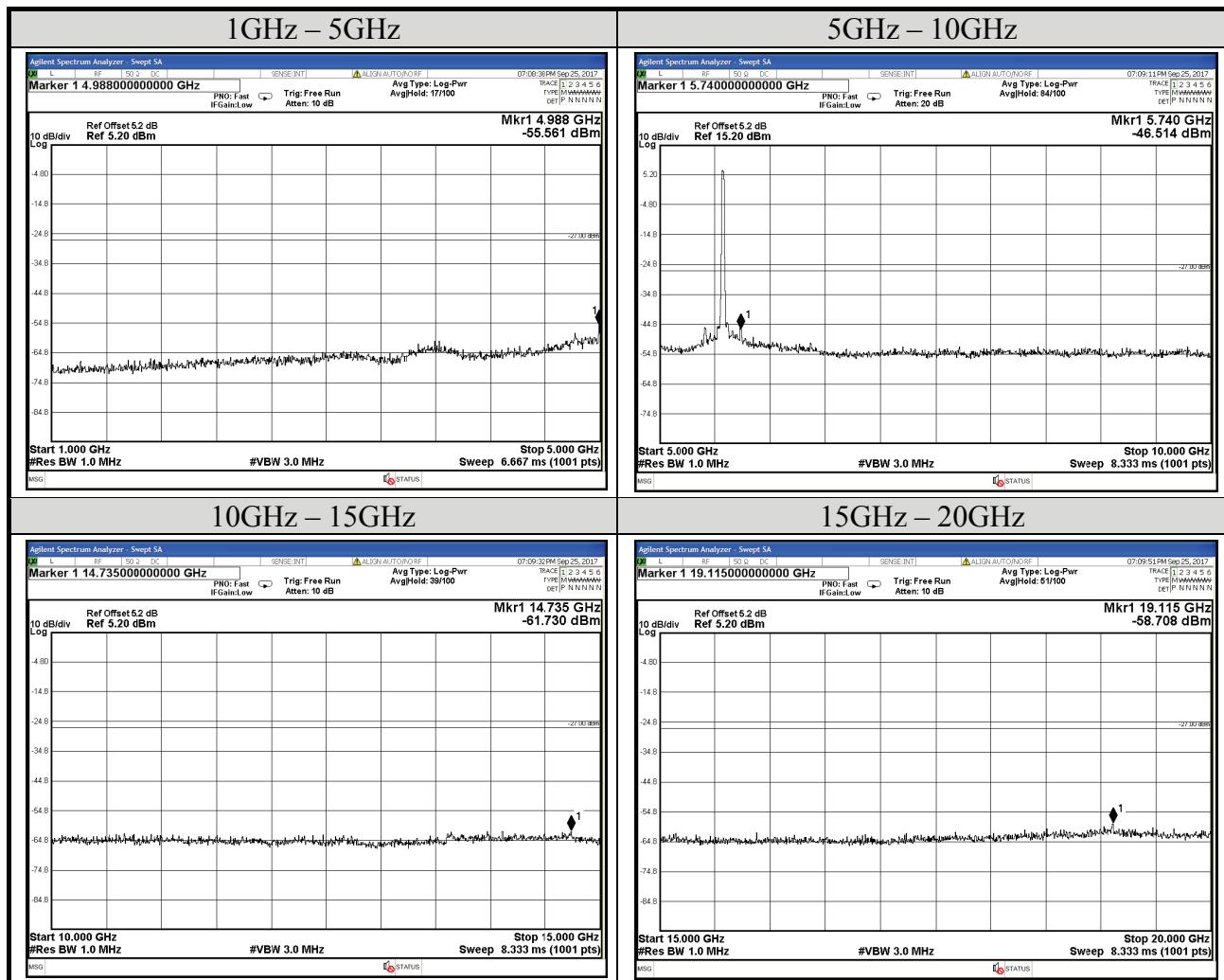
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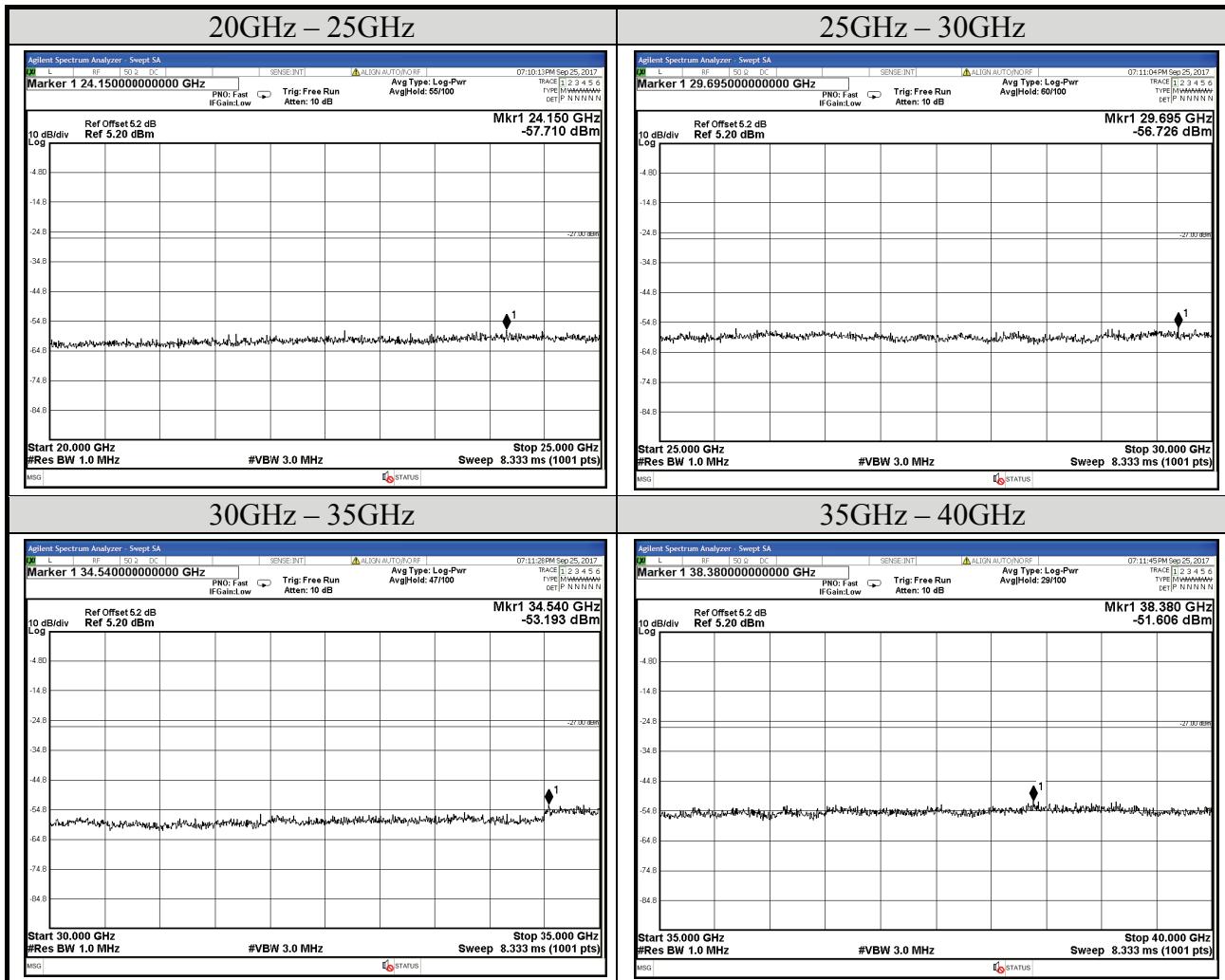
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Mode	802.11a	UNII Band	II-2C
Cable Loss	4.2dB	Frequency	TX 5600MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	0		



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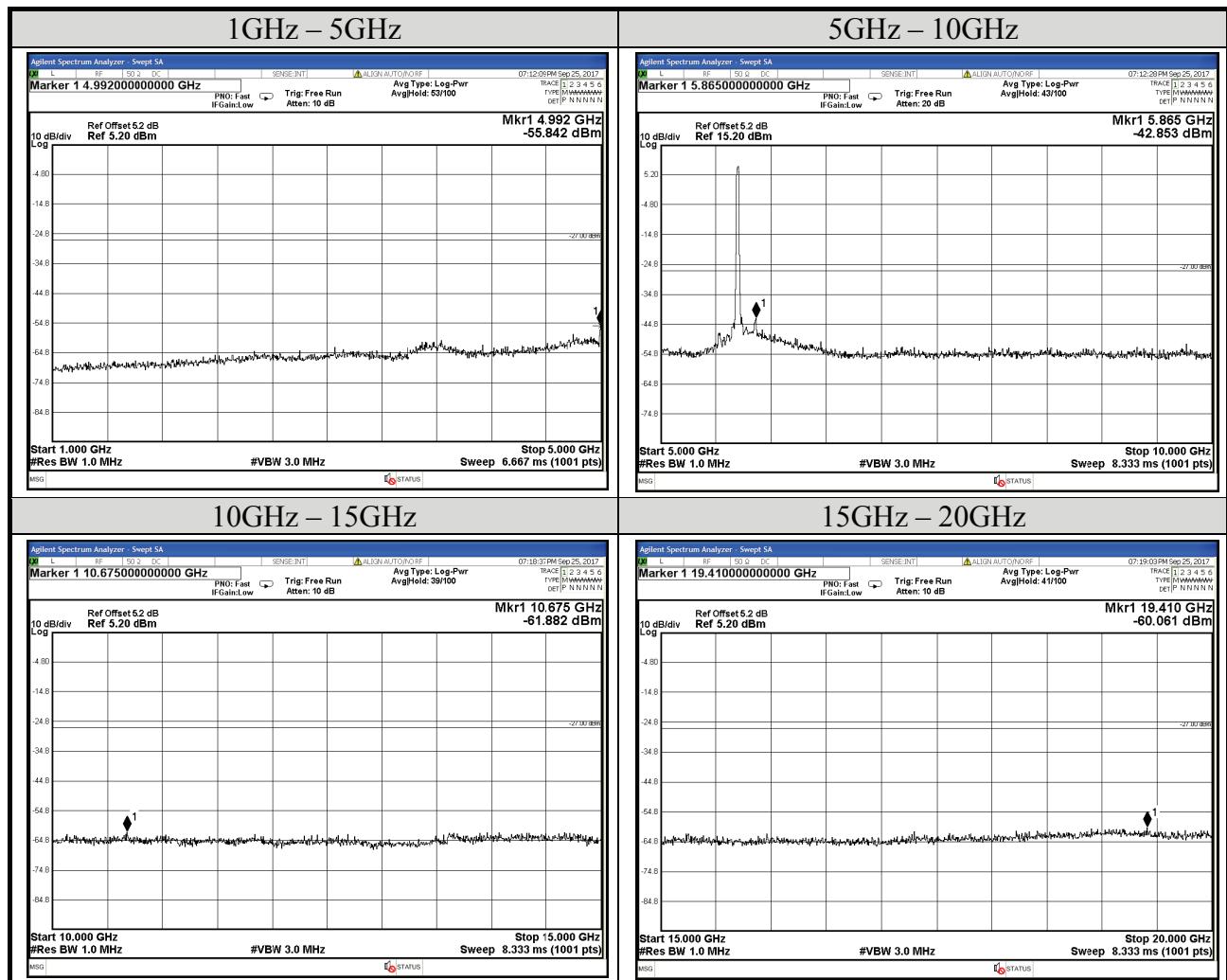
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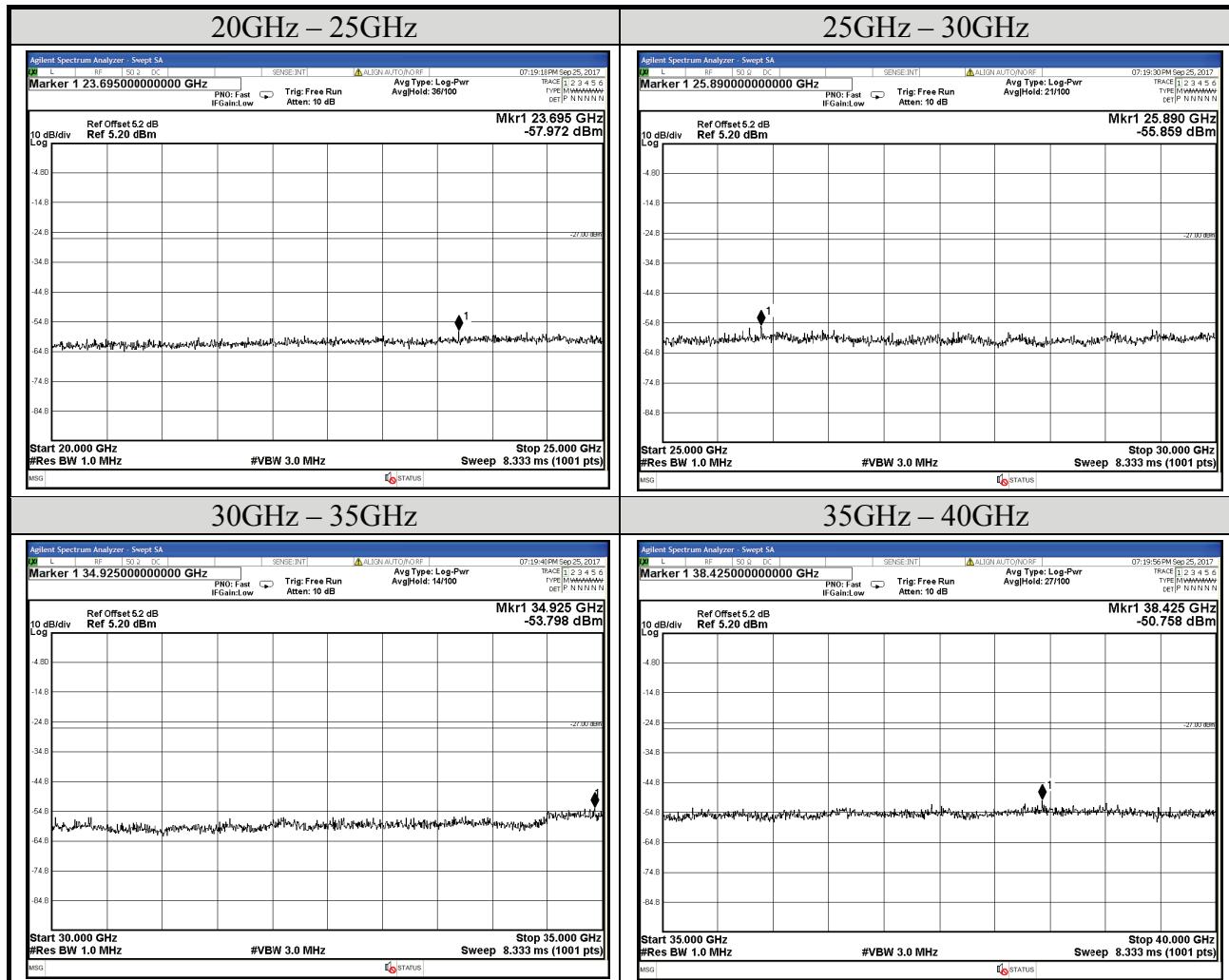
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2C
Cable Loss	4.2dB	Frequency	TX 5700MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	0		



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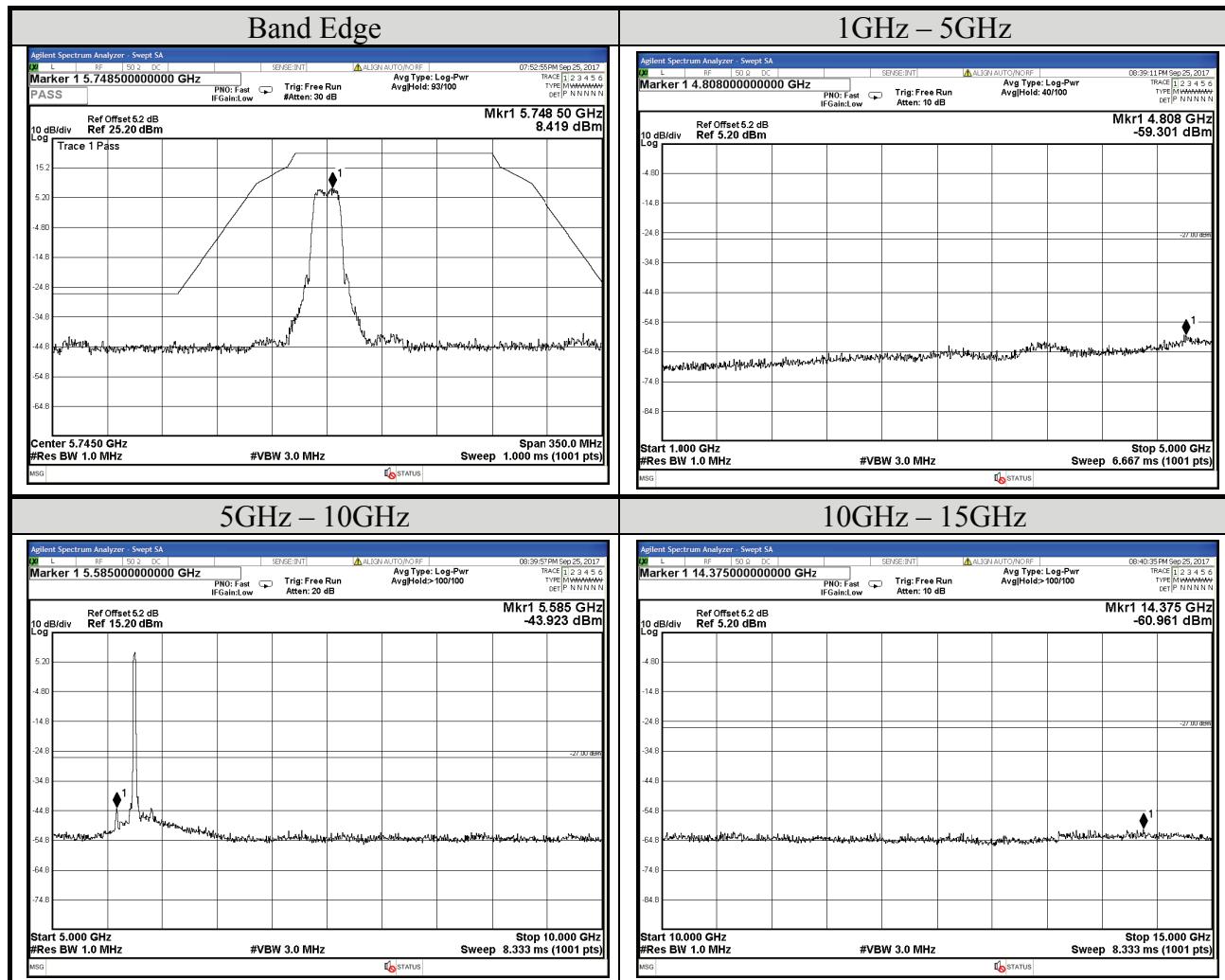
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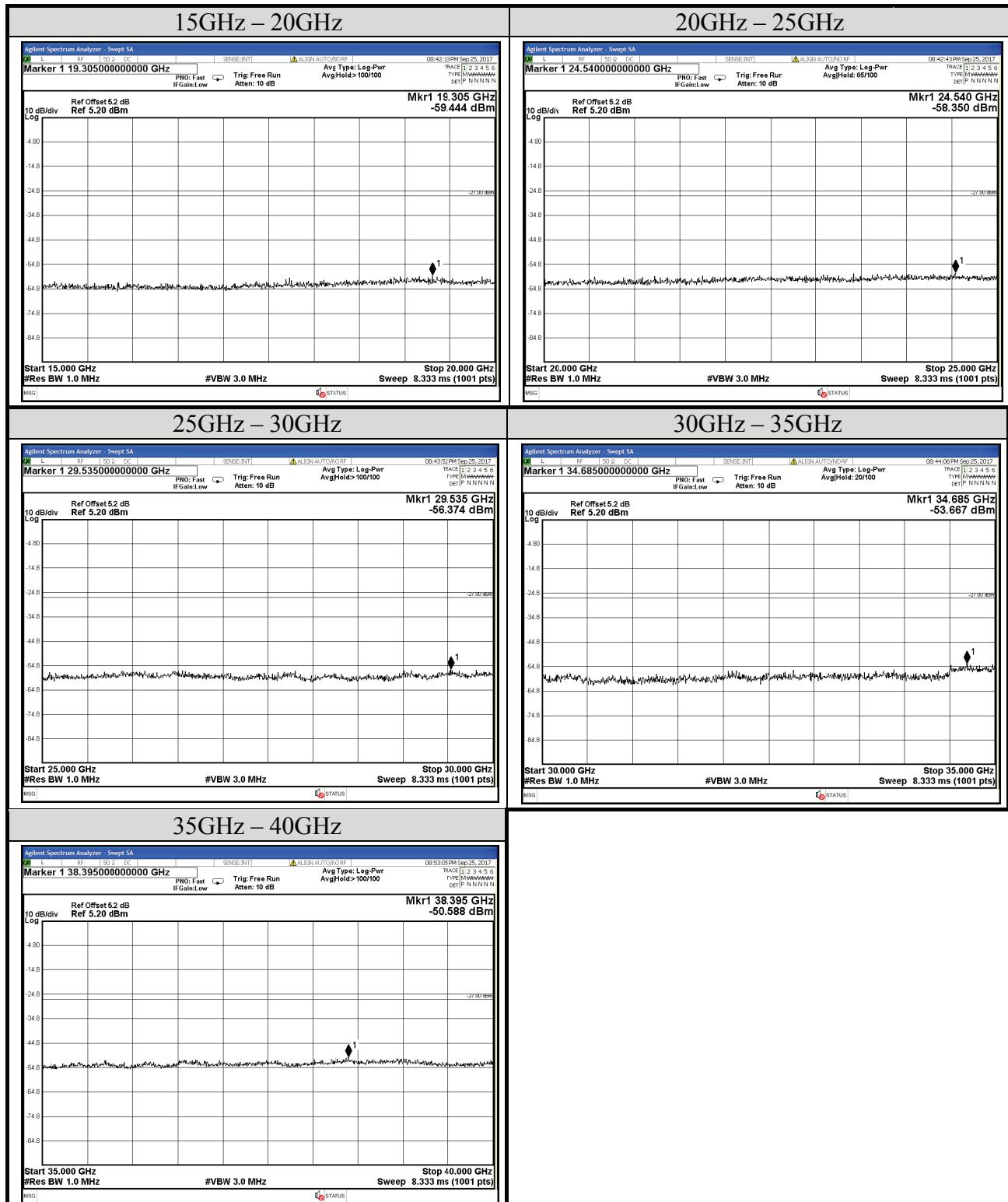


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Test Date	2017/09/25	Temp./Hum.	25°C /55%
Mode	802.11a	UNII Band	III
Cable Loss	4.2dB	Frequency	TX 5745MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC) 0		

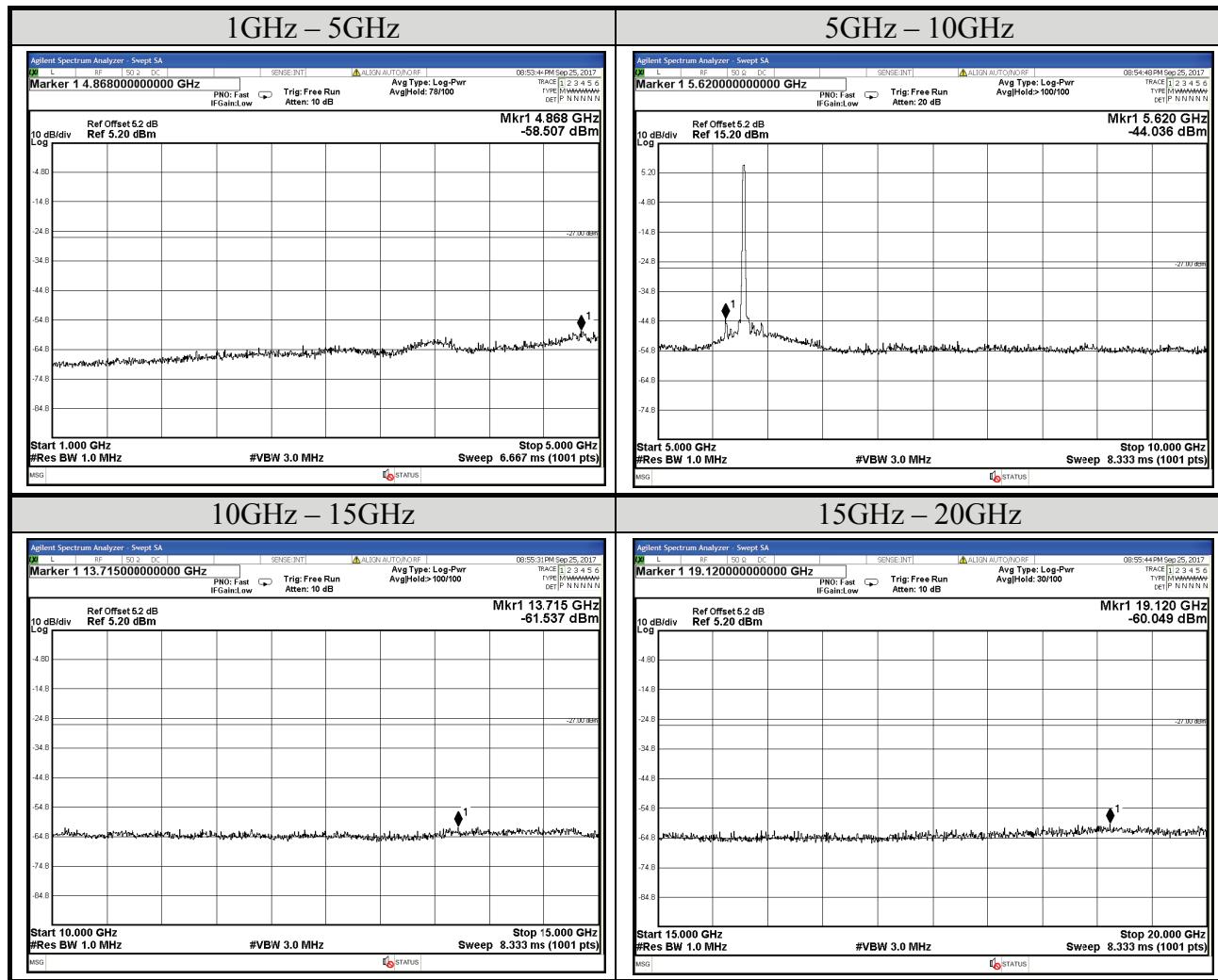


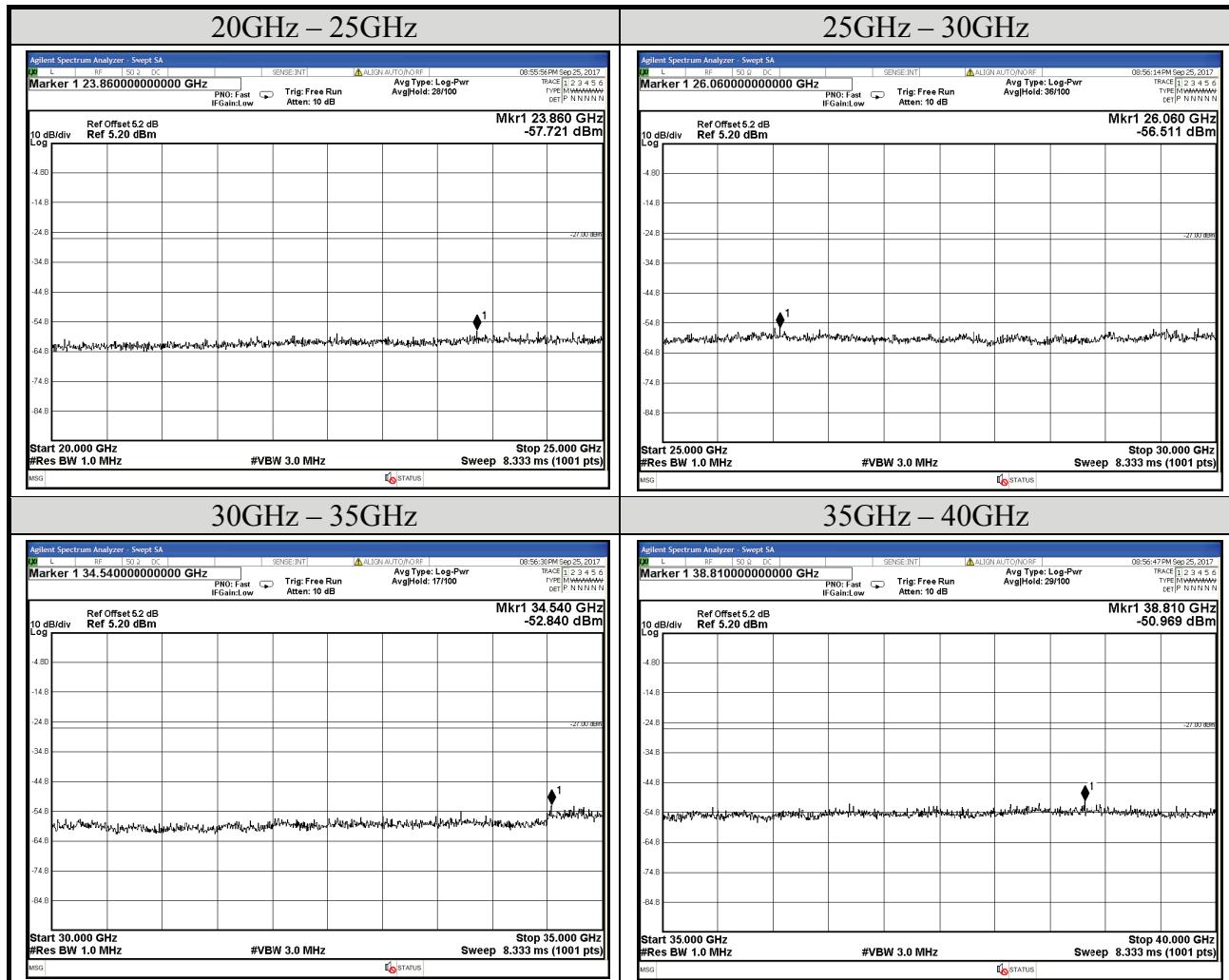


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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
Cable Loss	4.2dB	Frequency	TX 5785MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC) 0		

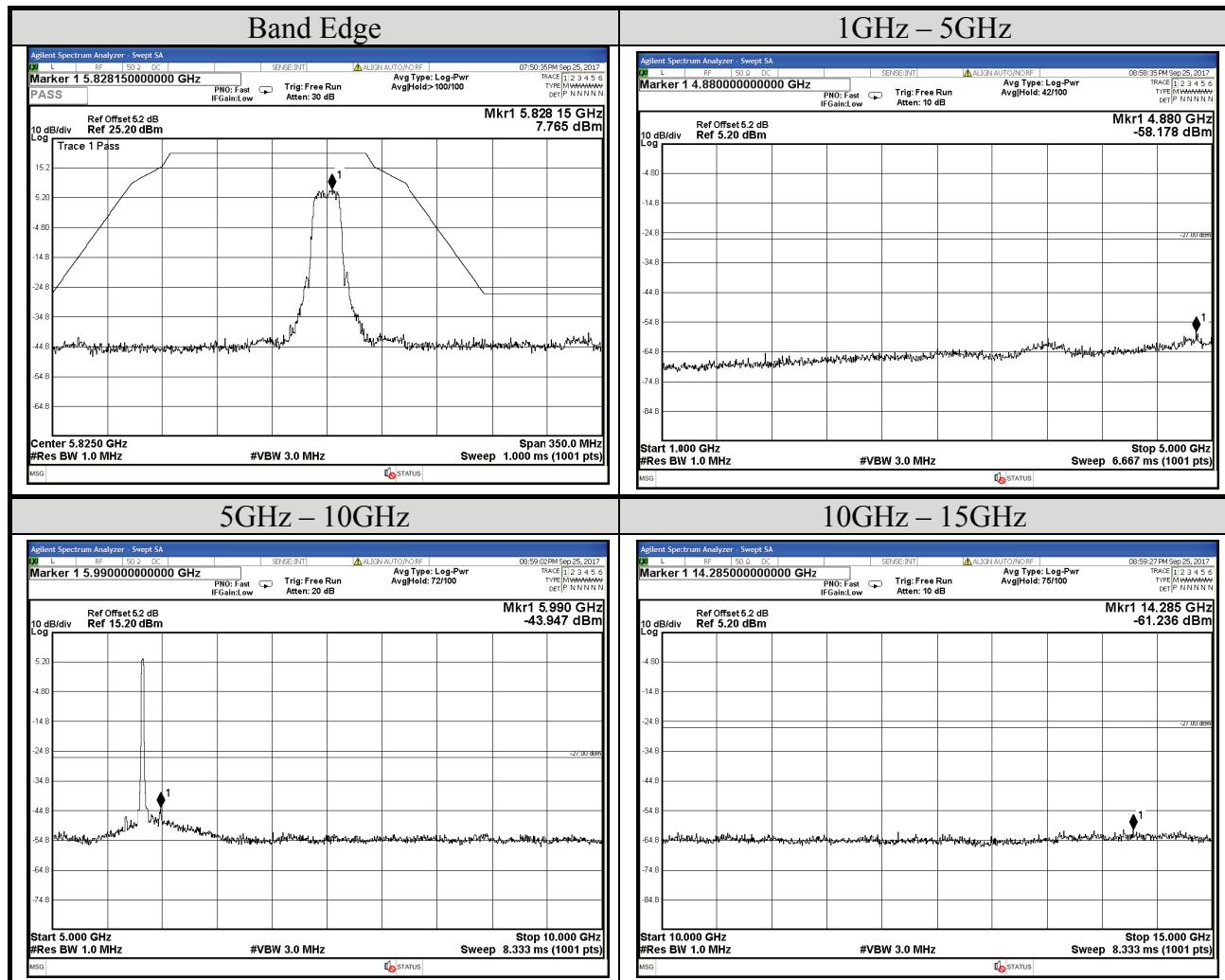


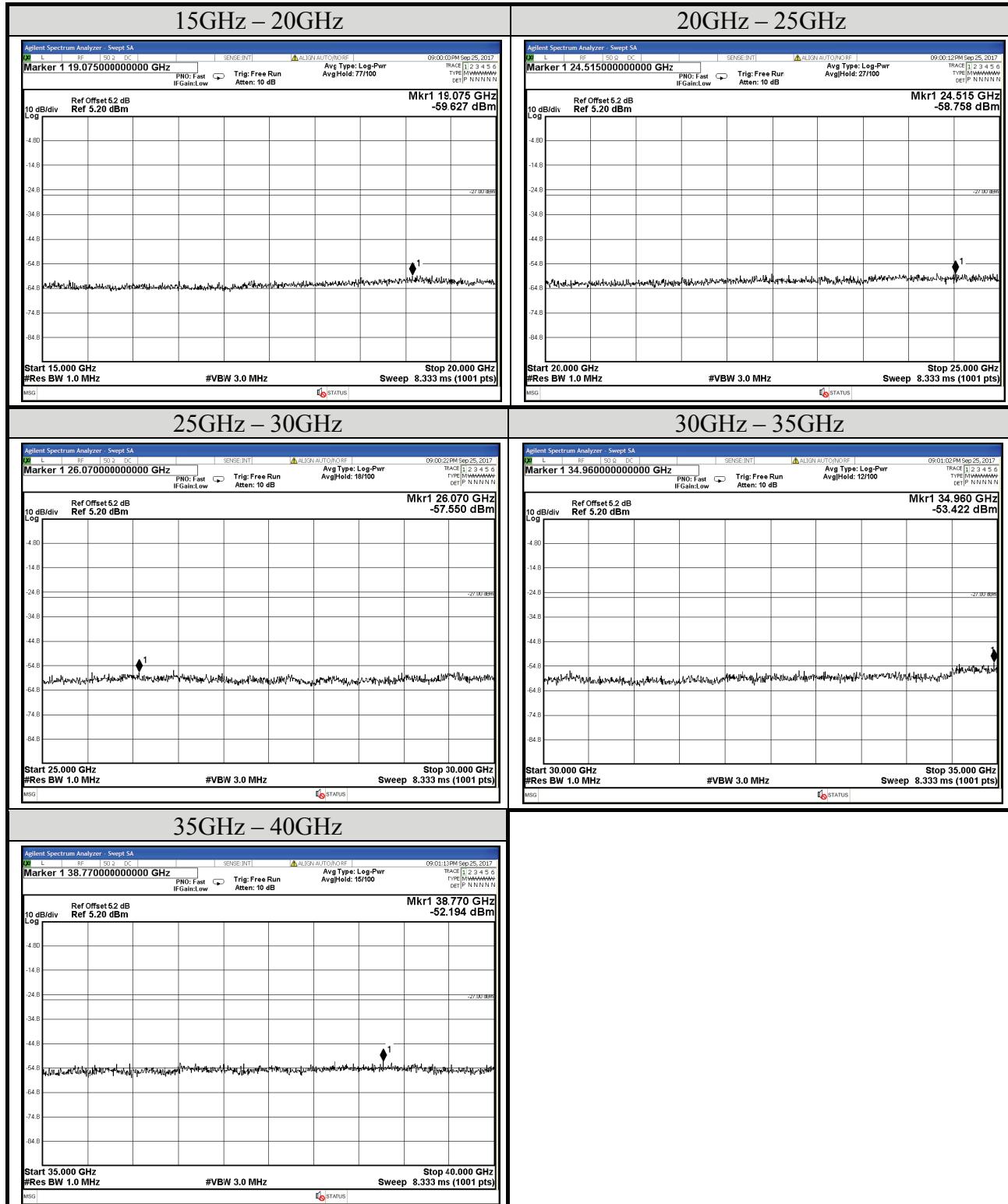


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Fax: +886 2 26099303

Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
Cable Loss	4.2dB	Frequency	TX 5825MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC) 0		

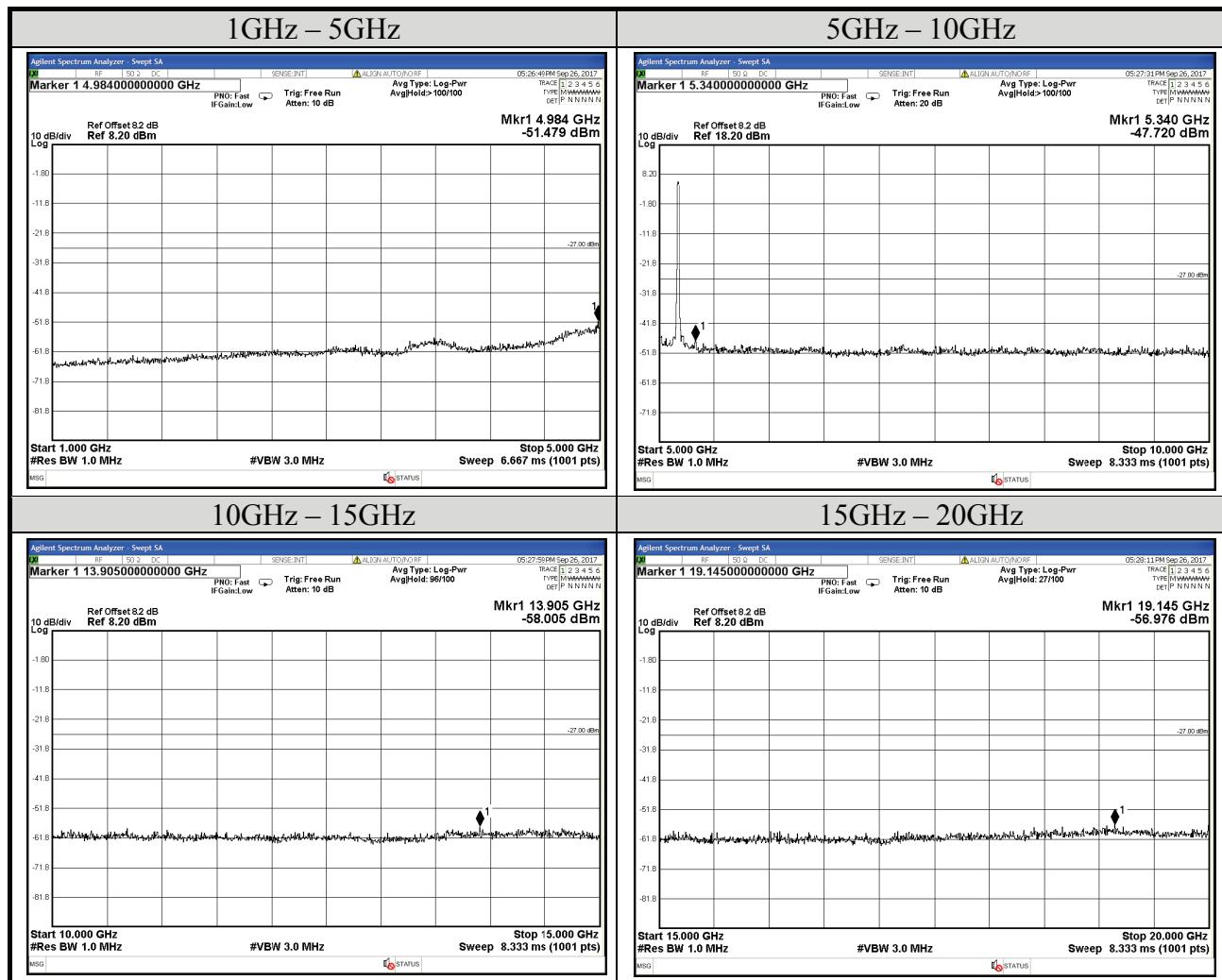




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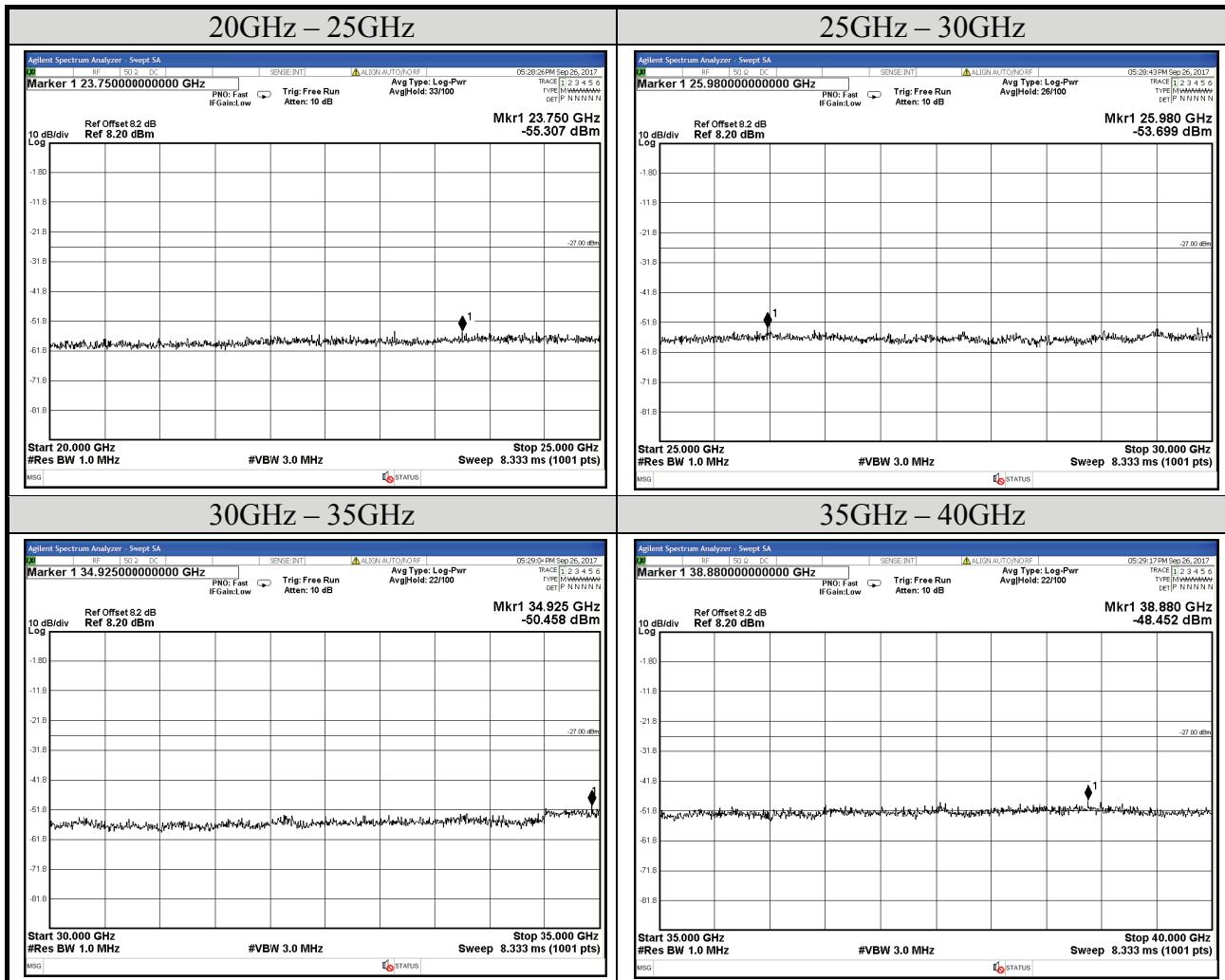
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Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5180MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	3		



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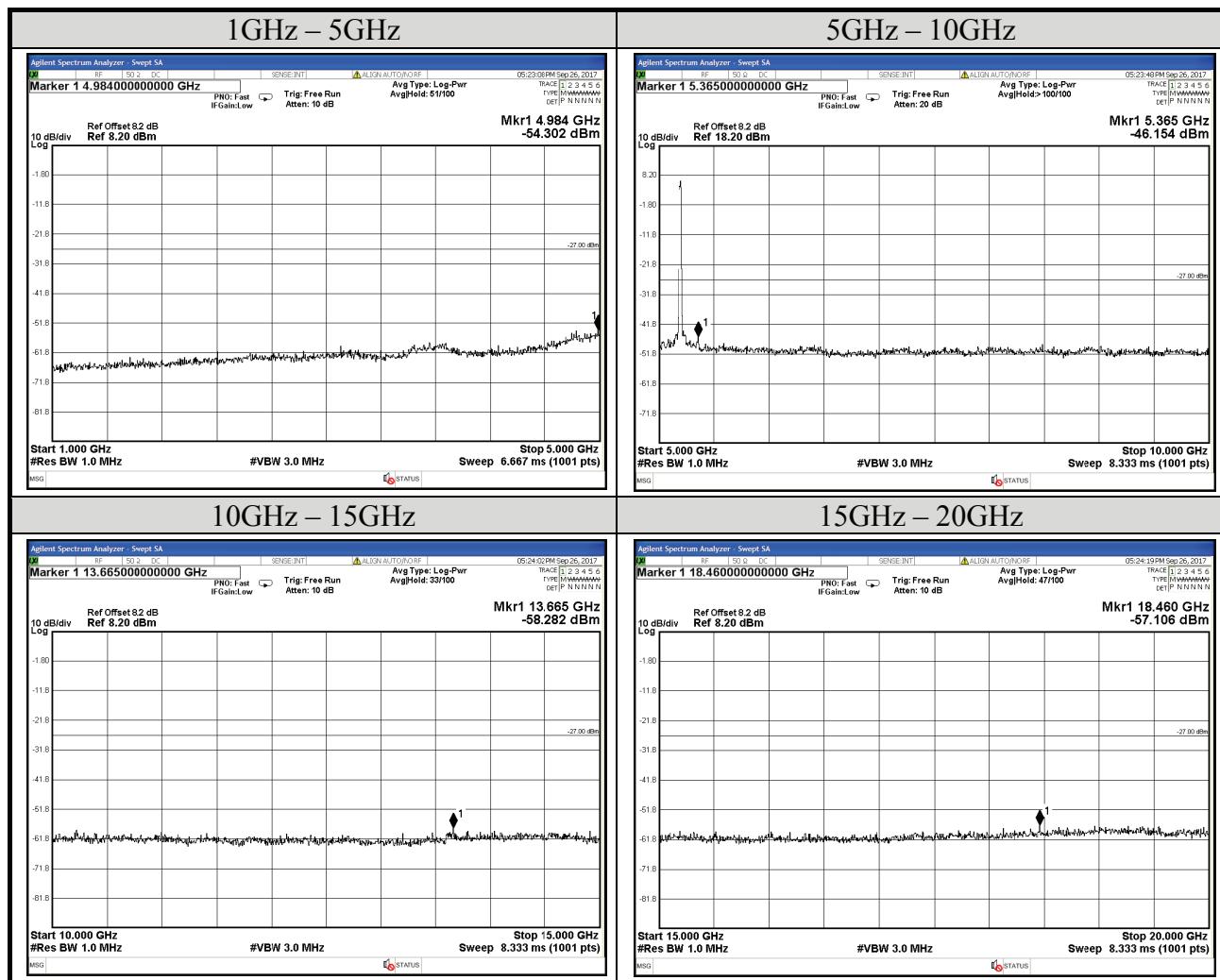
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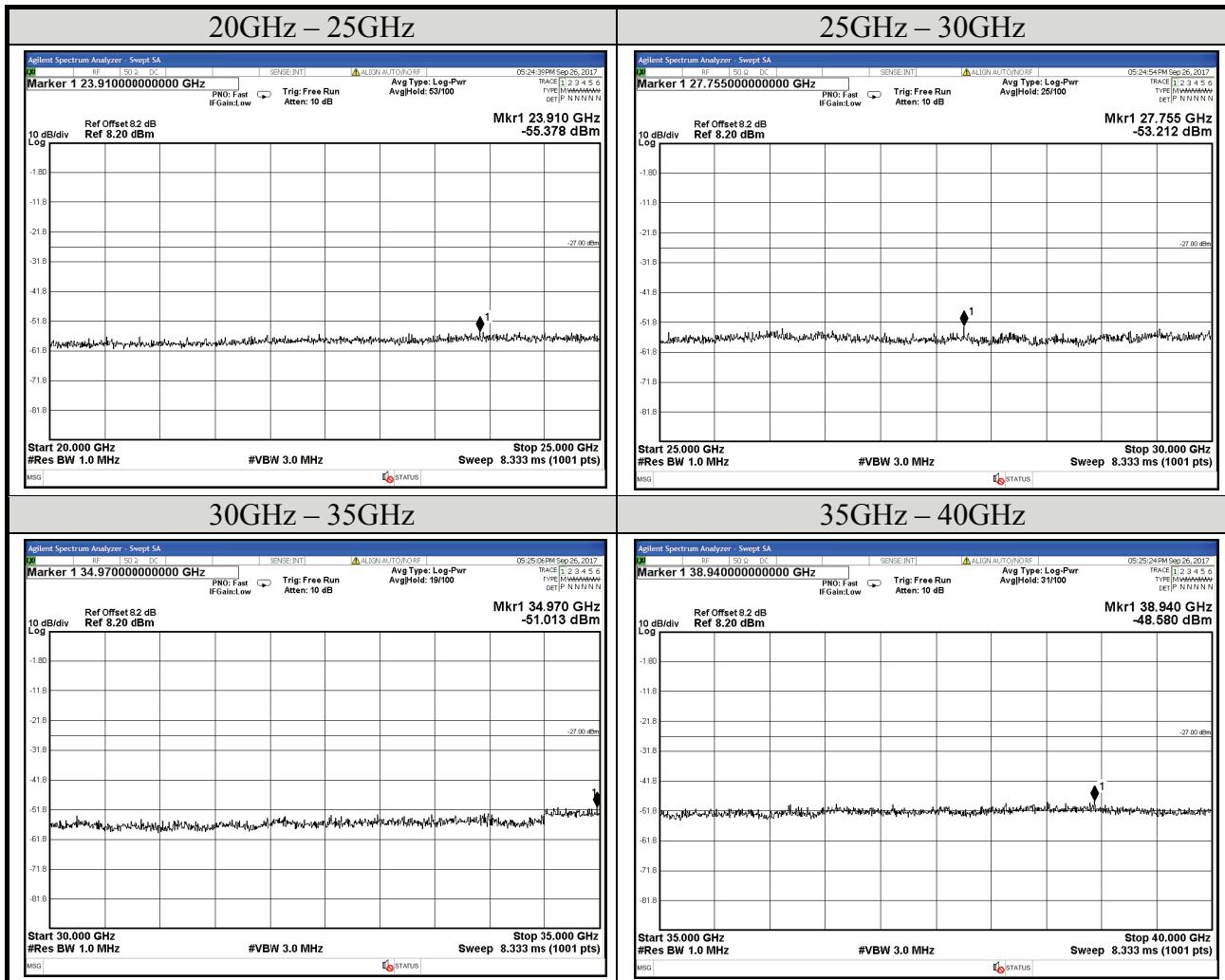
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Test Date	2017/09/26	Temp./Hum.	25°C /55%
Mode	802.11n-HT20	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5200MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
			3



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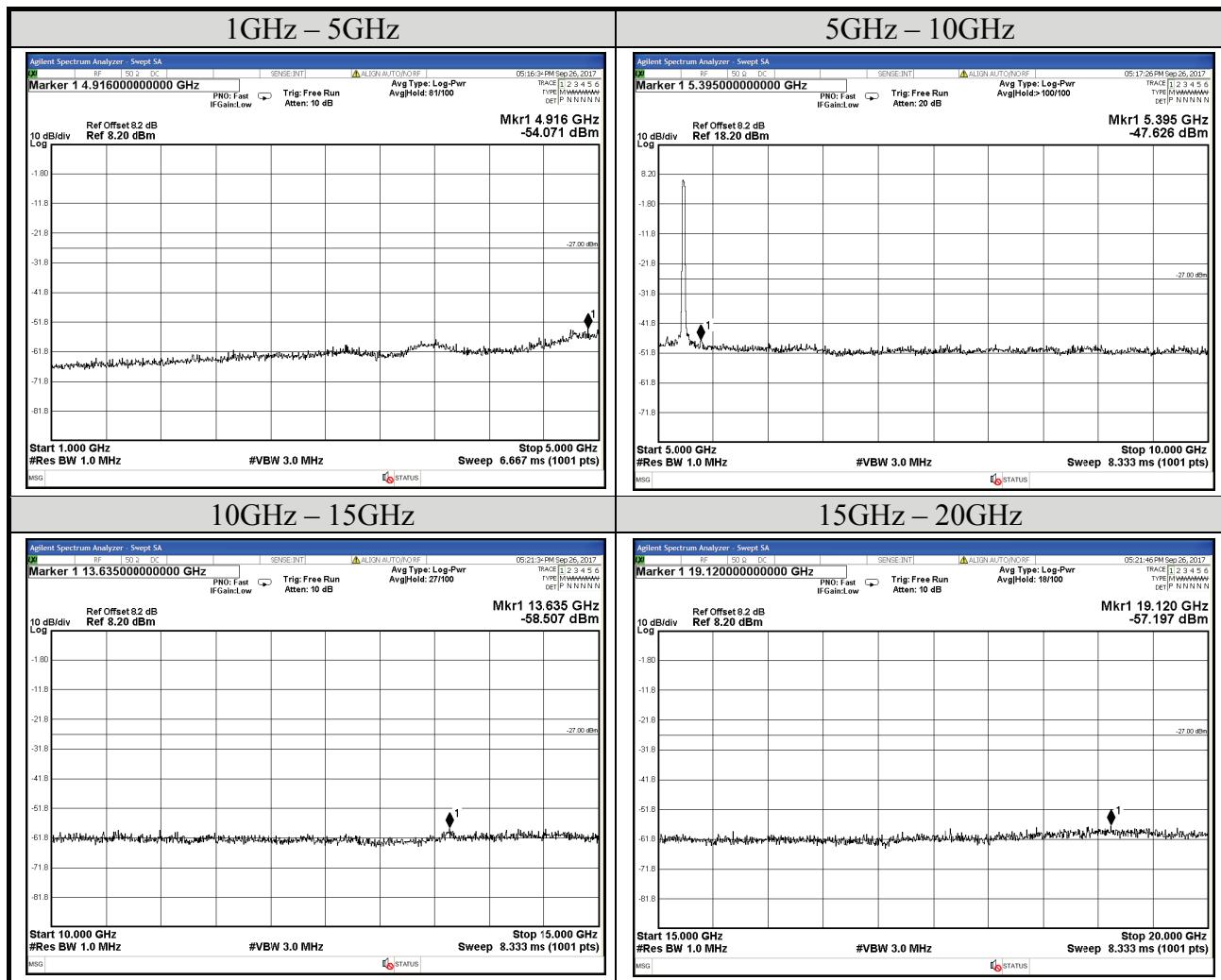
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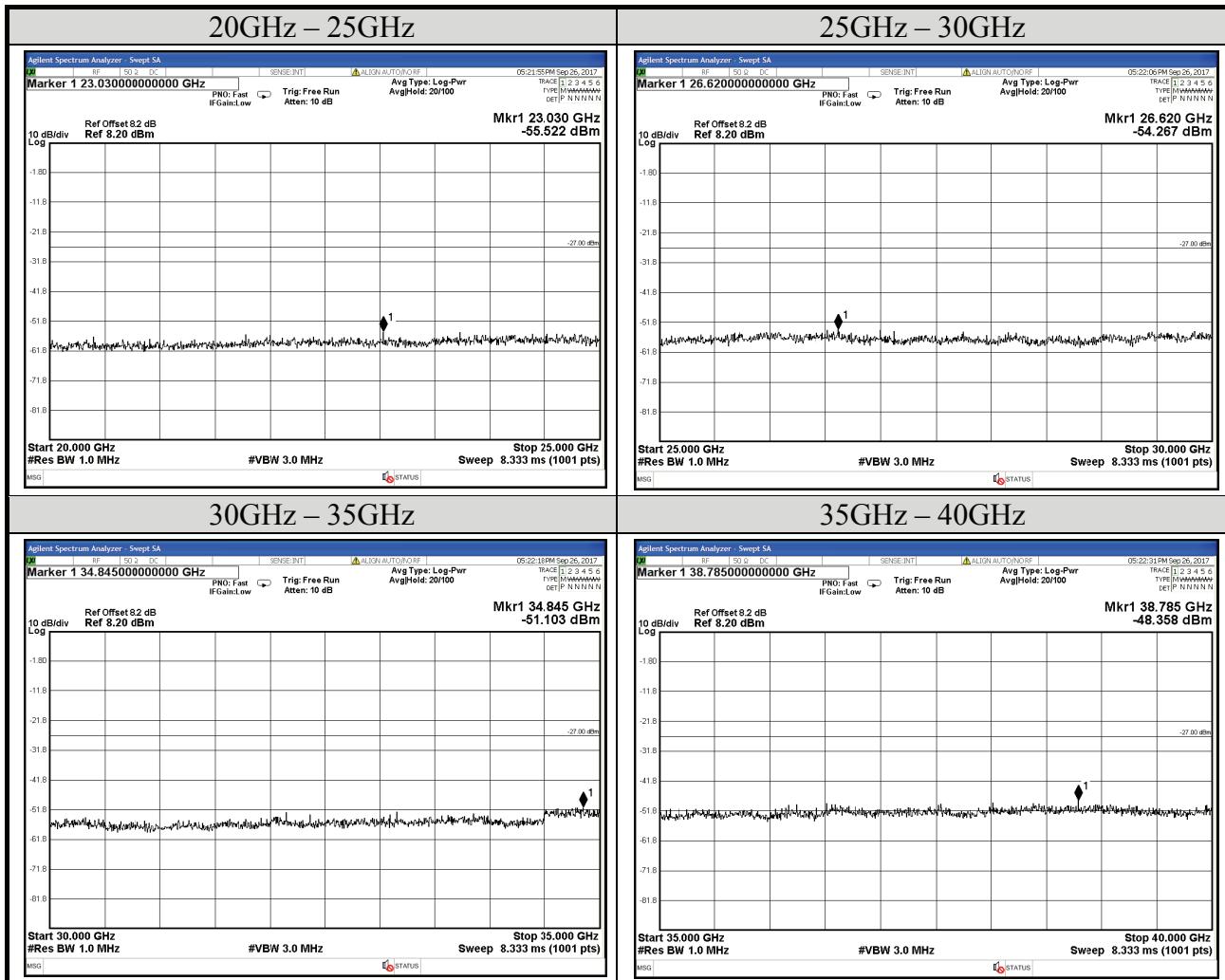
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Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	I
Cable Loss	4.2dB	Frequency	TX 5240MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	3		



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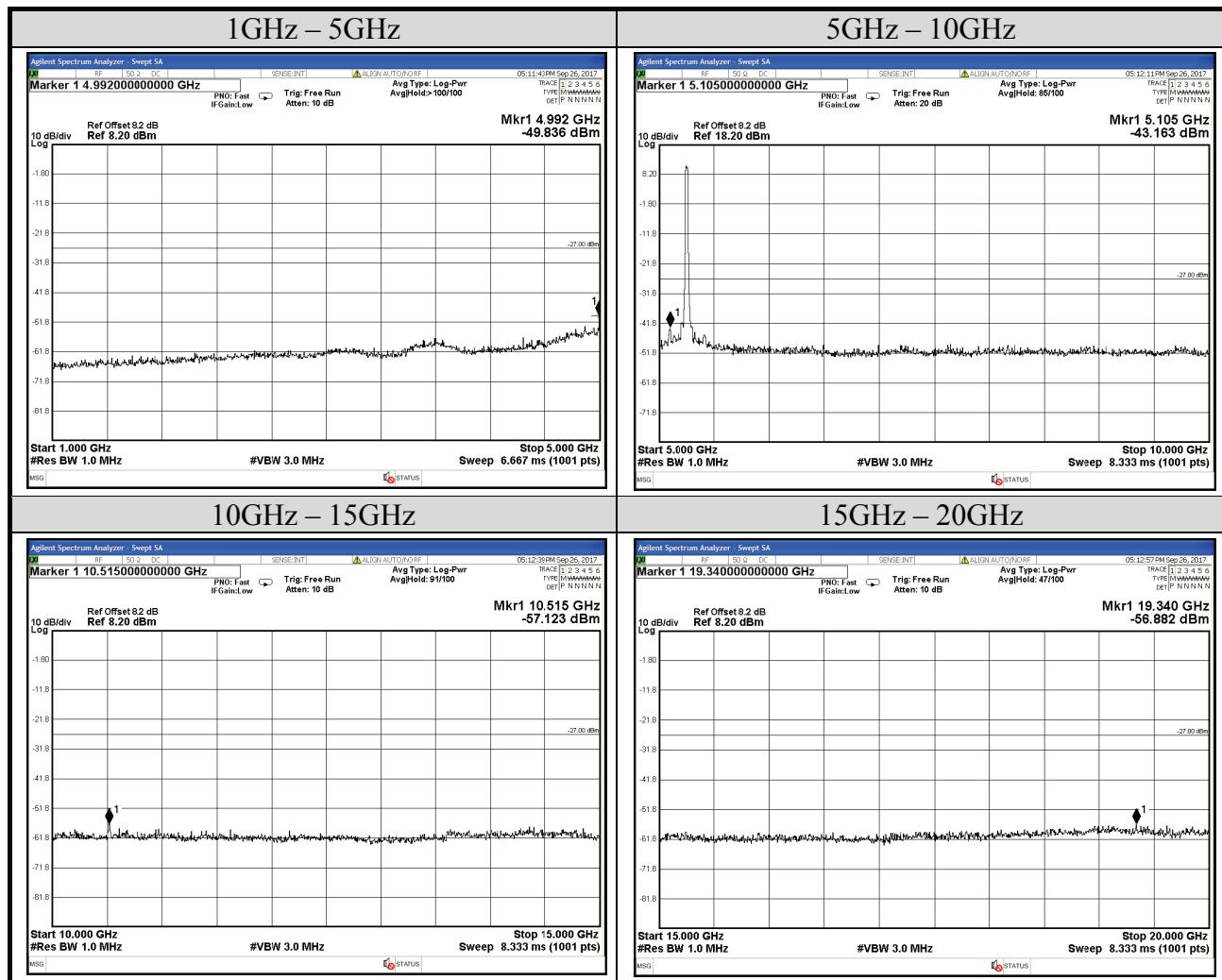
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 Fax: +886 2 26099303

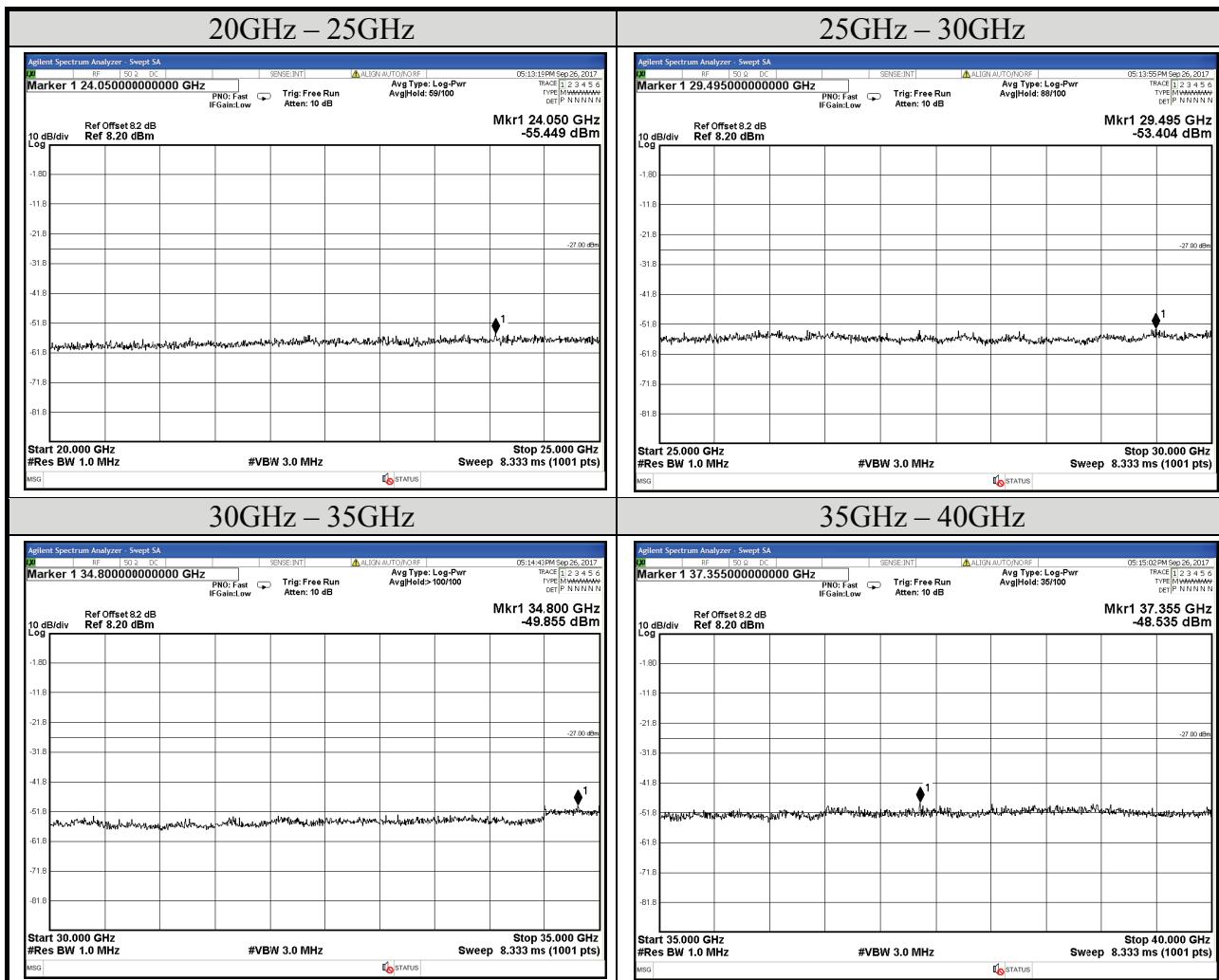


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 Fax: +886 2 26099303

Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5260MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	3		

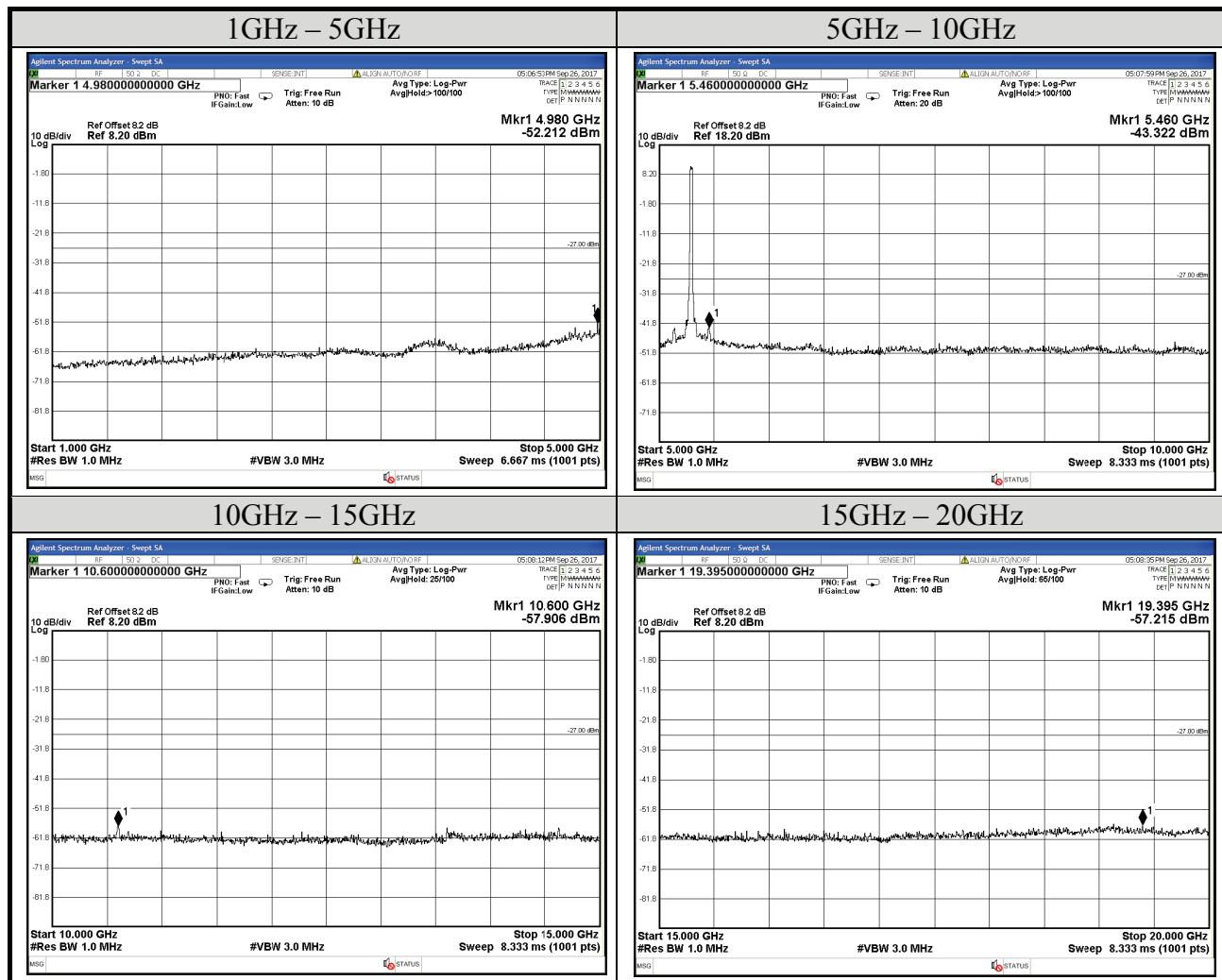


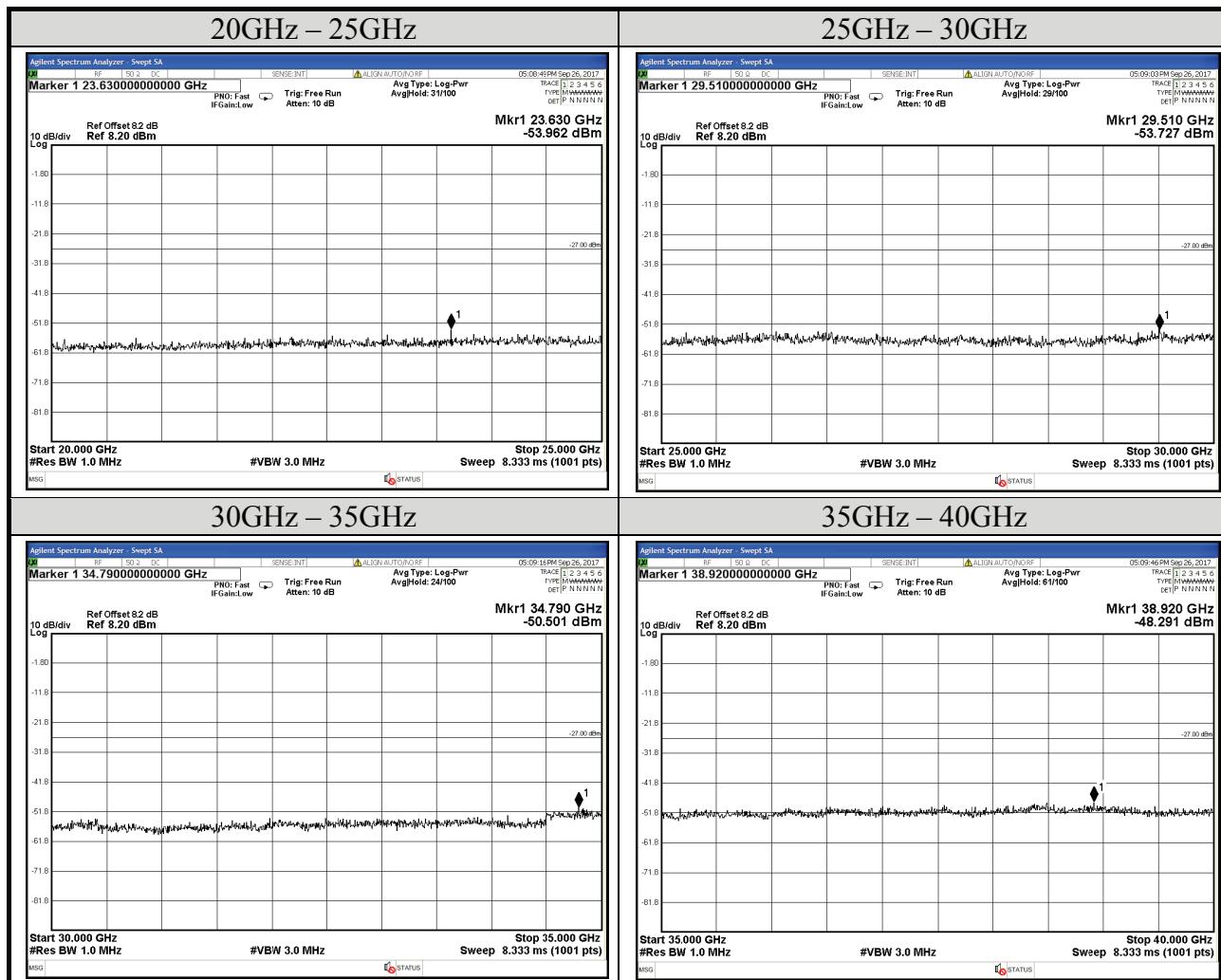


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Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5300MHz
Simultaneous Factor 10 log(n)	(Note: "n" is antenna number)		
	3		





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Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	II-2A
Cable Loss	4.2dB	Frequency	TX 5320MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	Test Voltage DC 3.3V (Via Notebook PC)		
	3		

