

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)

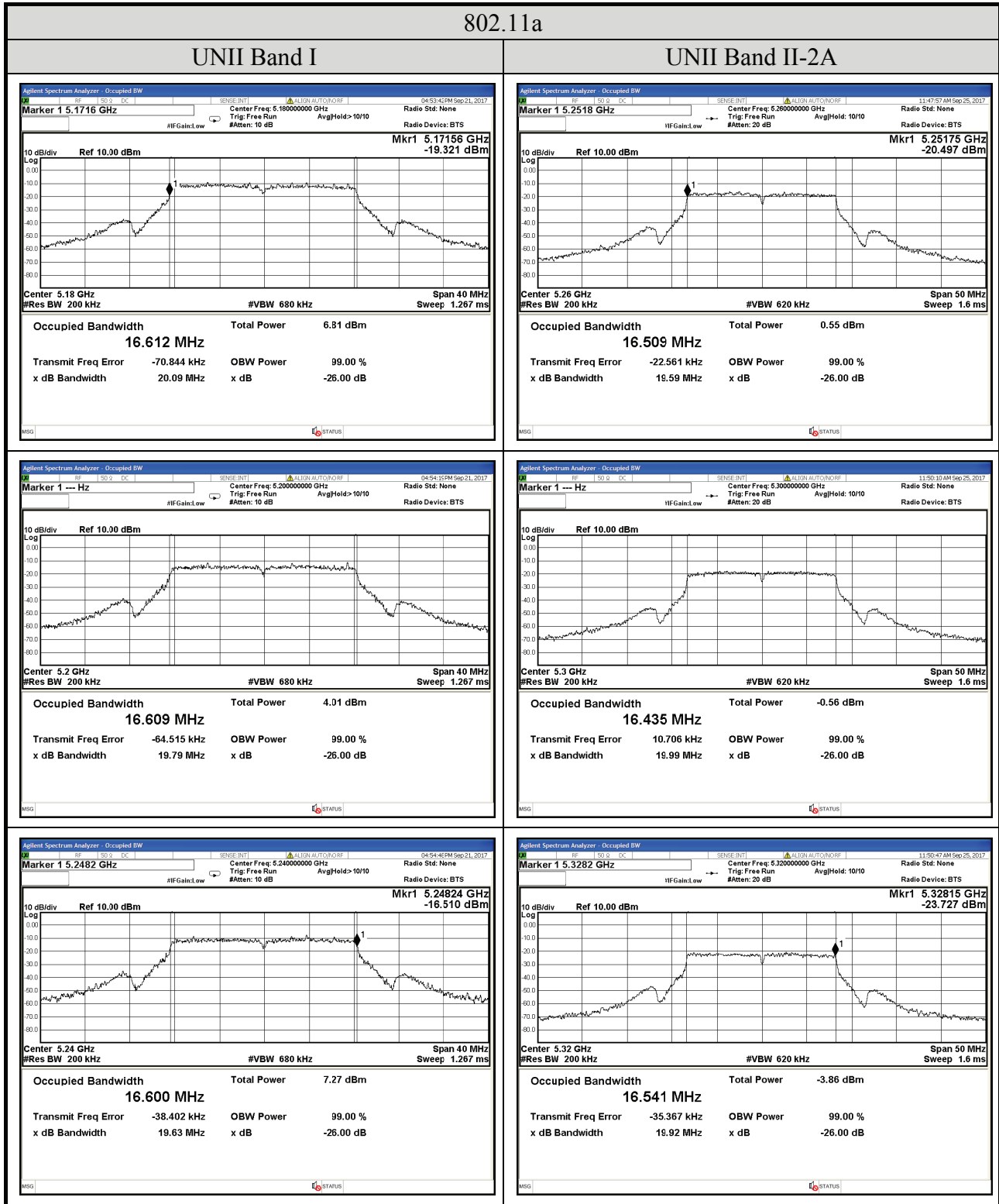
A.3.1 Emission Bandwidth Result

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	

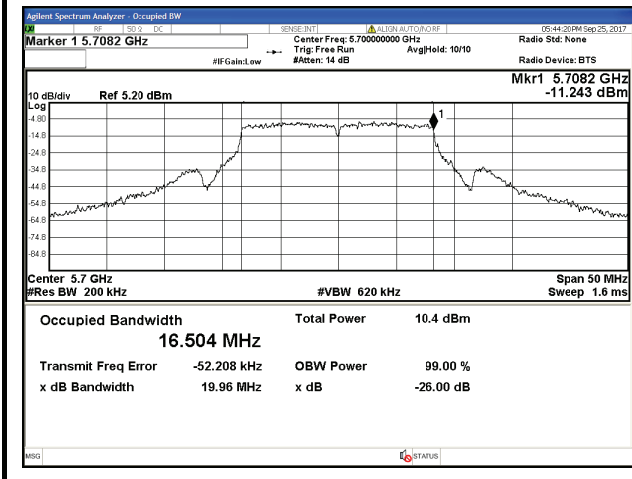
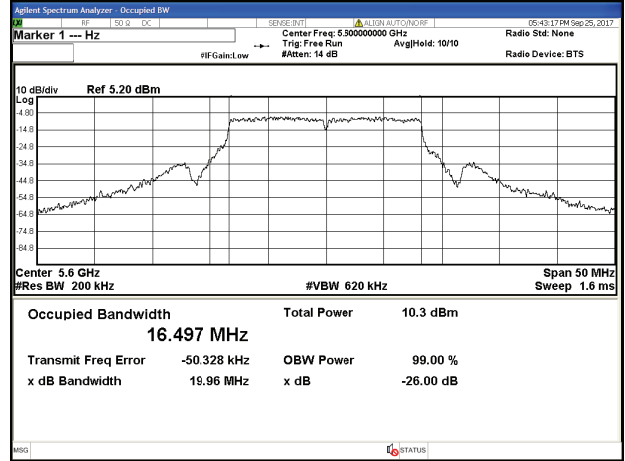
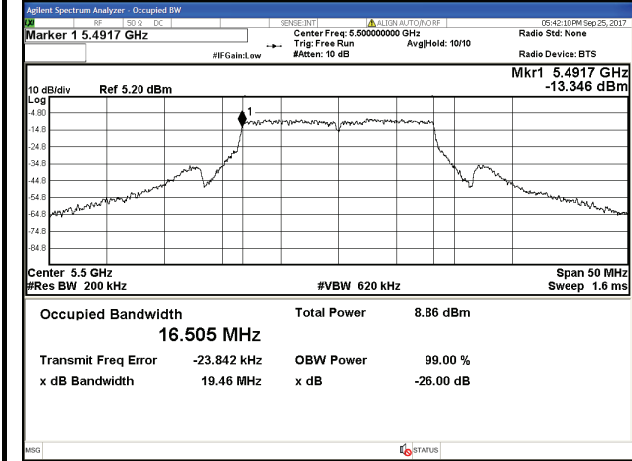
Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	16.37	≥ 500kHz
		5785	16.41	
		5825	16.41	
802.11n-HT20	III	5745	17.63	
		5785	17.60	
		5825	17.61	
802.11n-HT40	III	5755	35.76	
		5795	36.02	

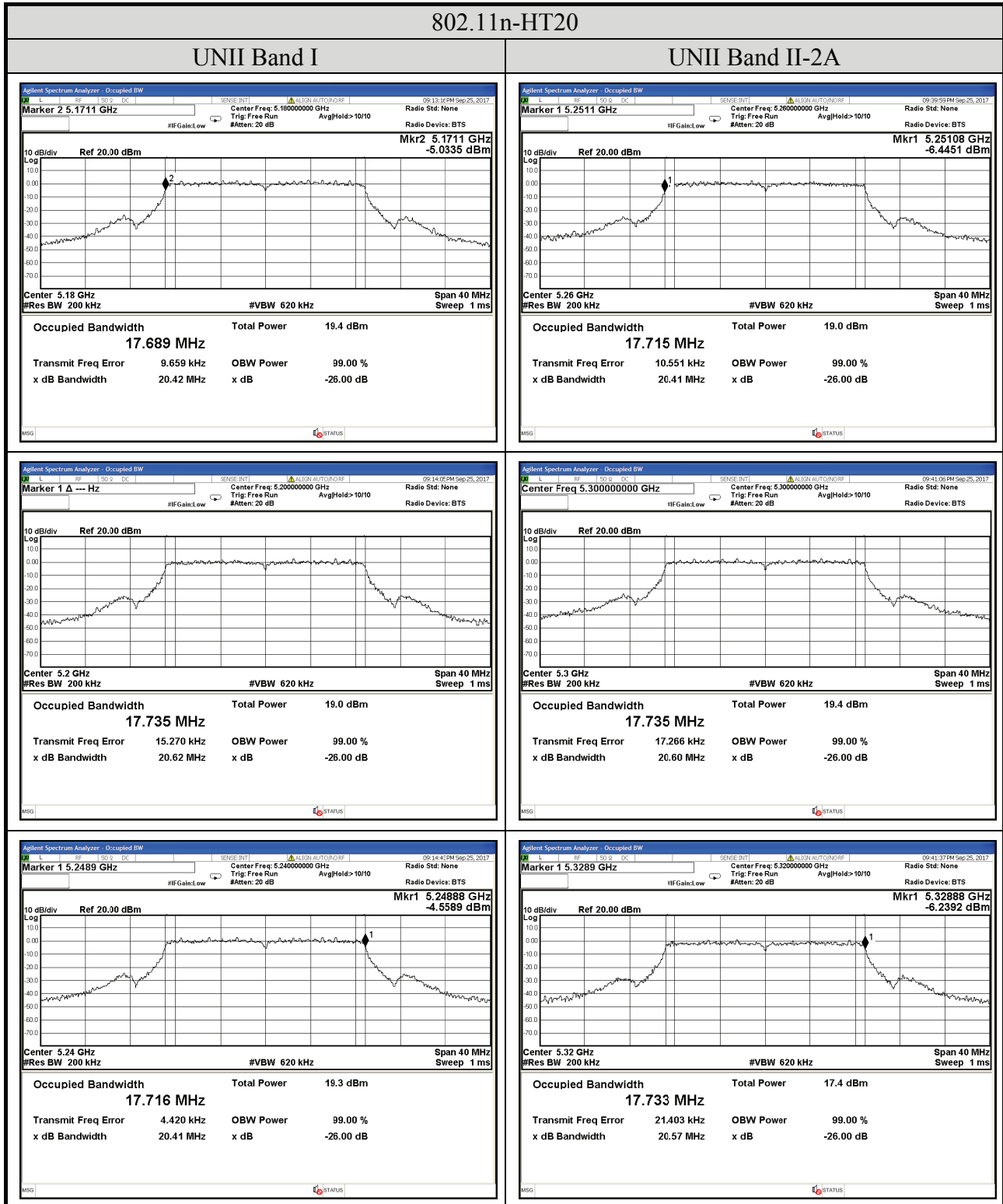
A.3.2 Measurement Plots



802.11a

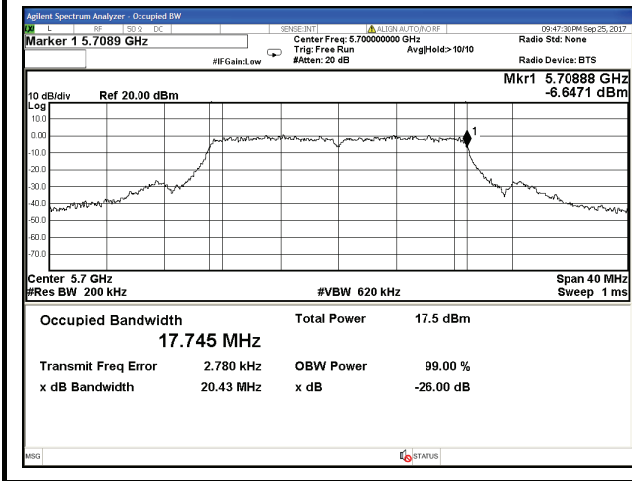
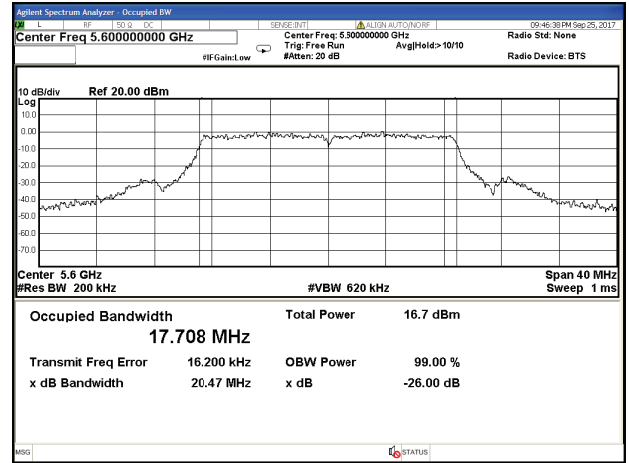
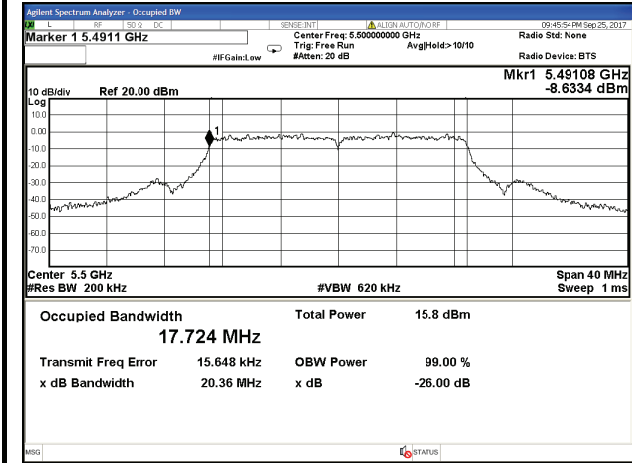
UNII Band II-2C

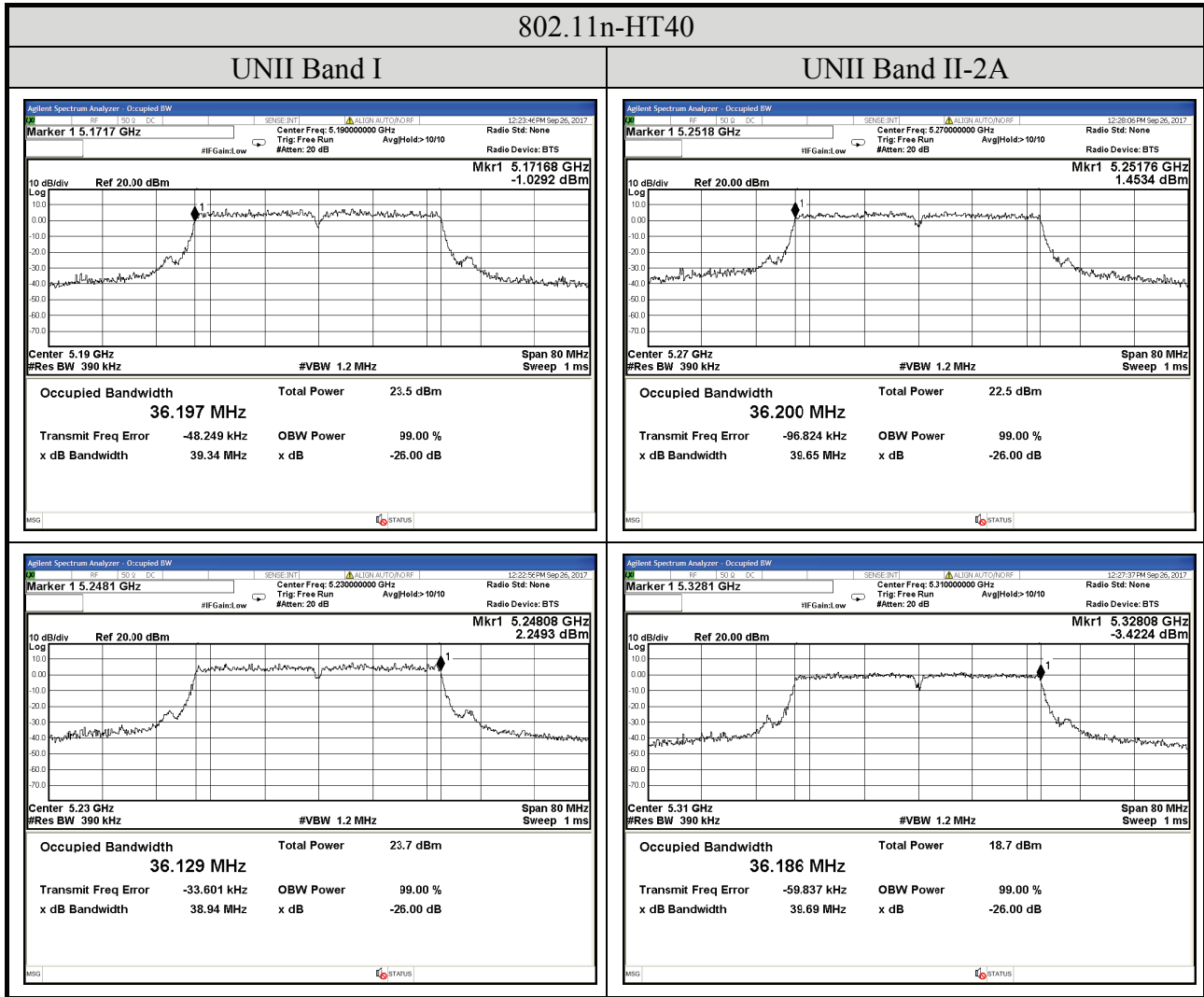




802.11n-HT20

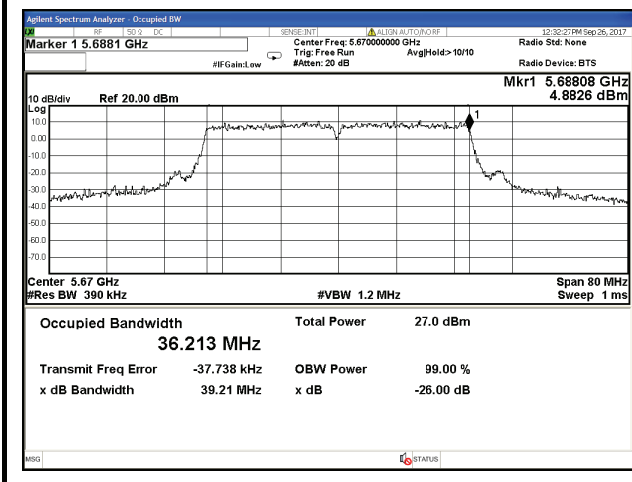
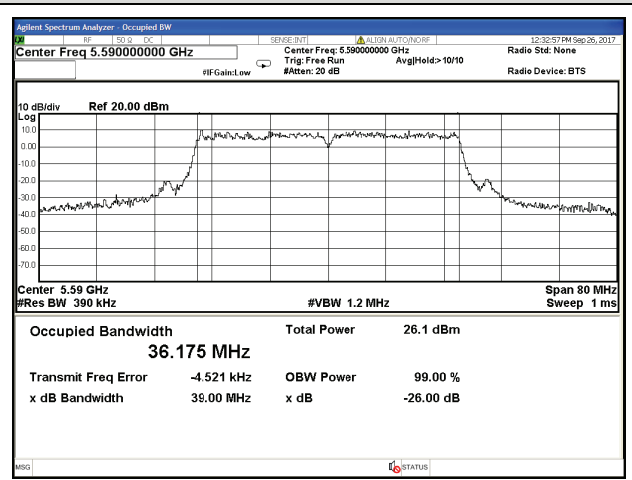
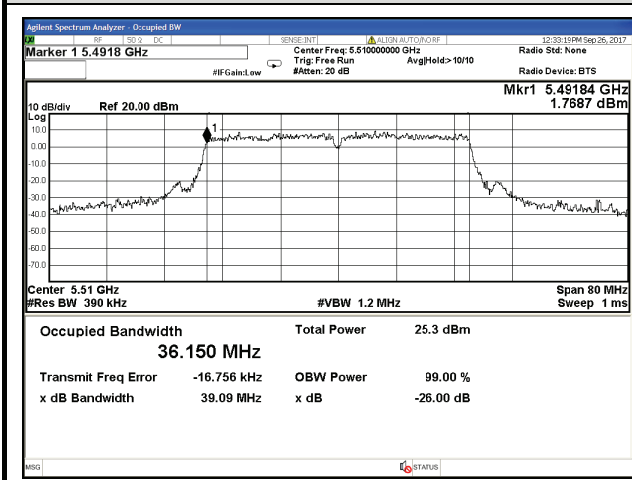
UNII Band II-2C

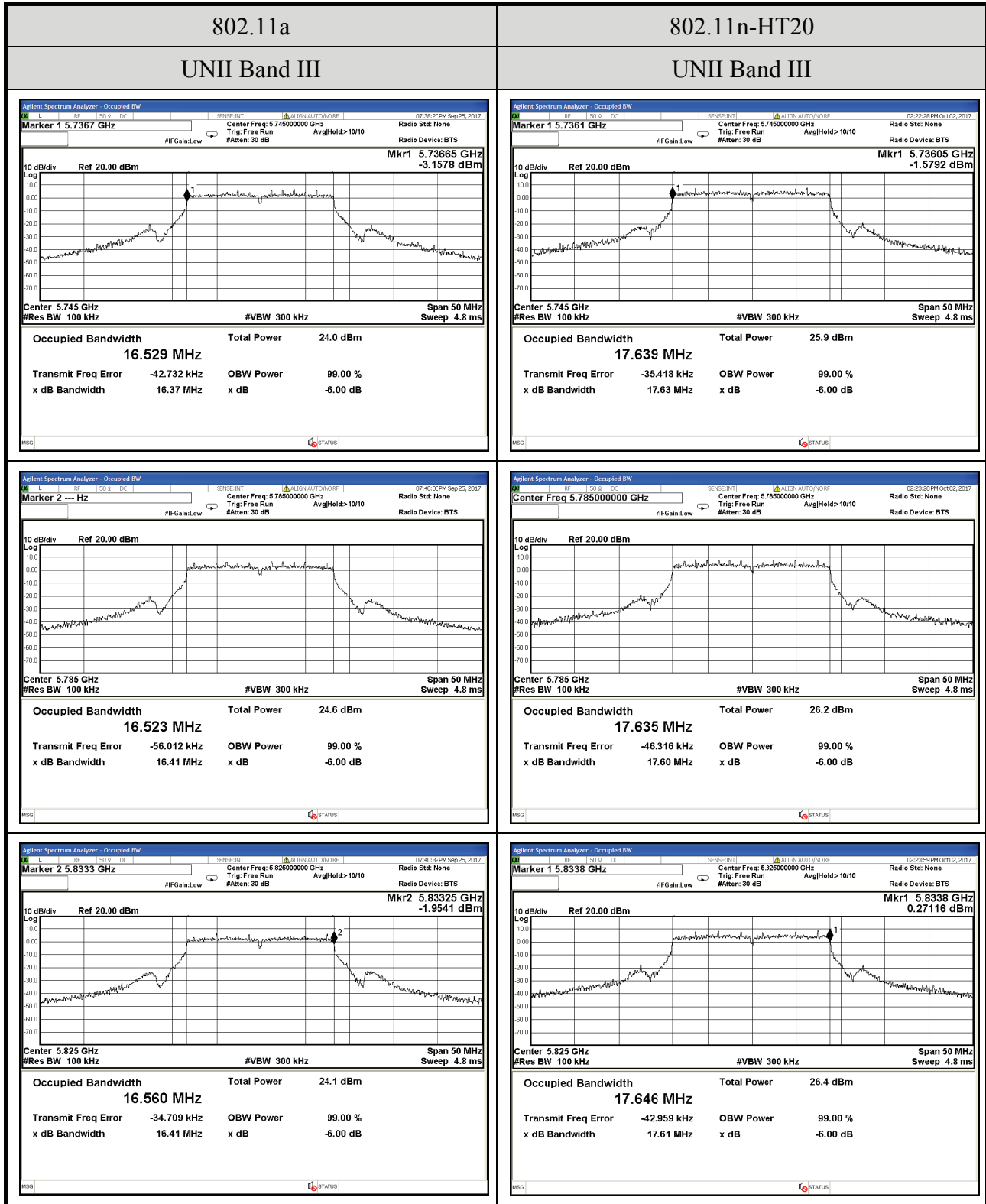




802.11n-HT40

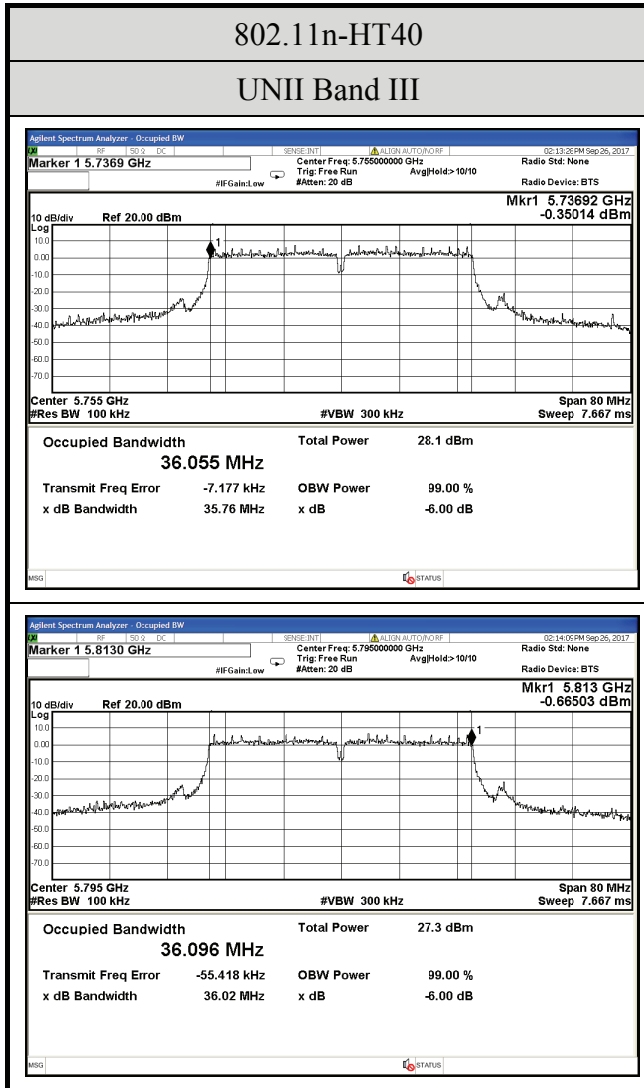
UNII Band II-2C





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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	
		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	< 1 W (30 dBm)
		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	
		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.

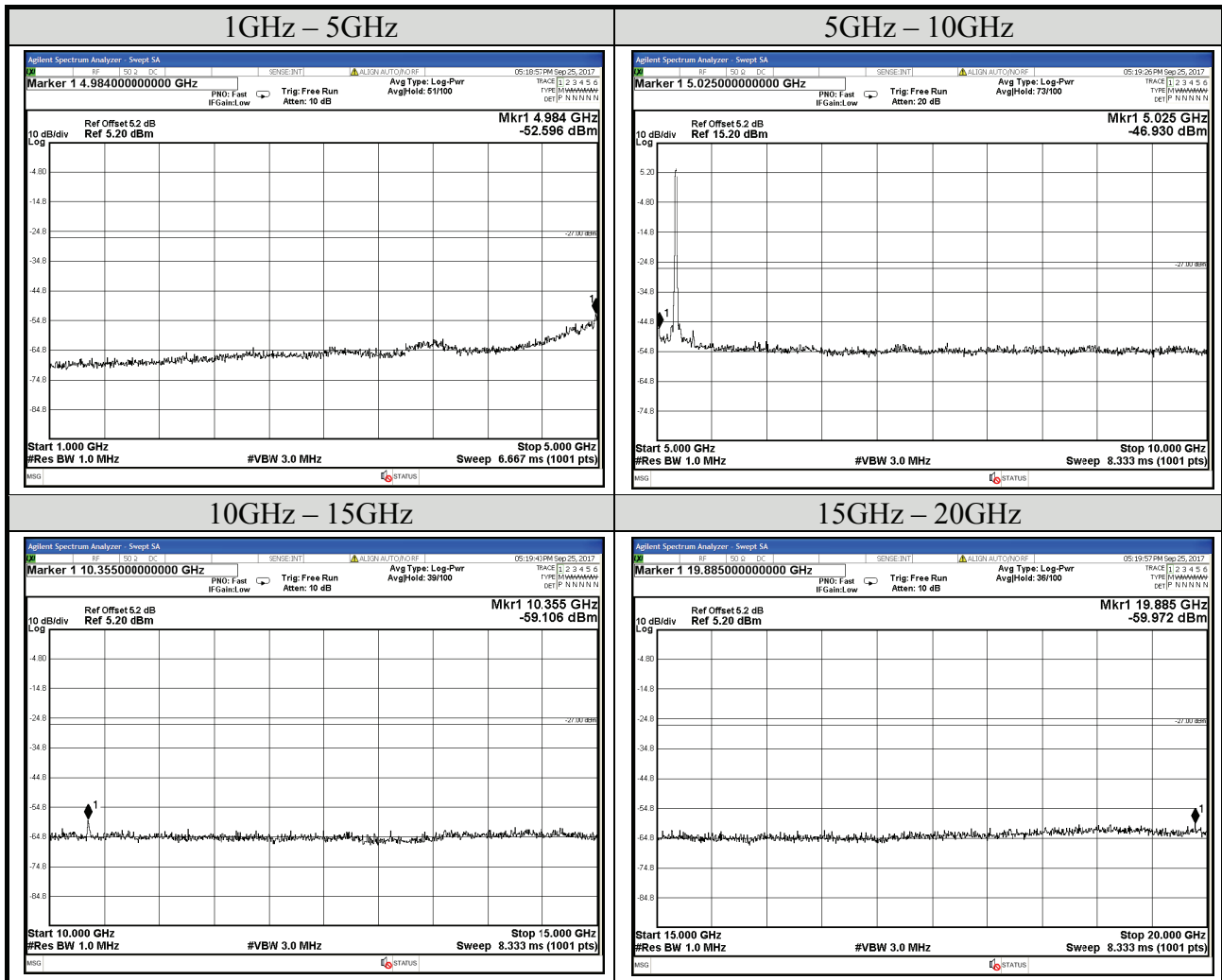
Note 2: 802.11n Directional gain is 8dBi > 6dBi, the Limit is $24 - (8-6) = 22$ dBm

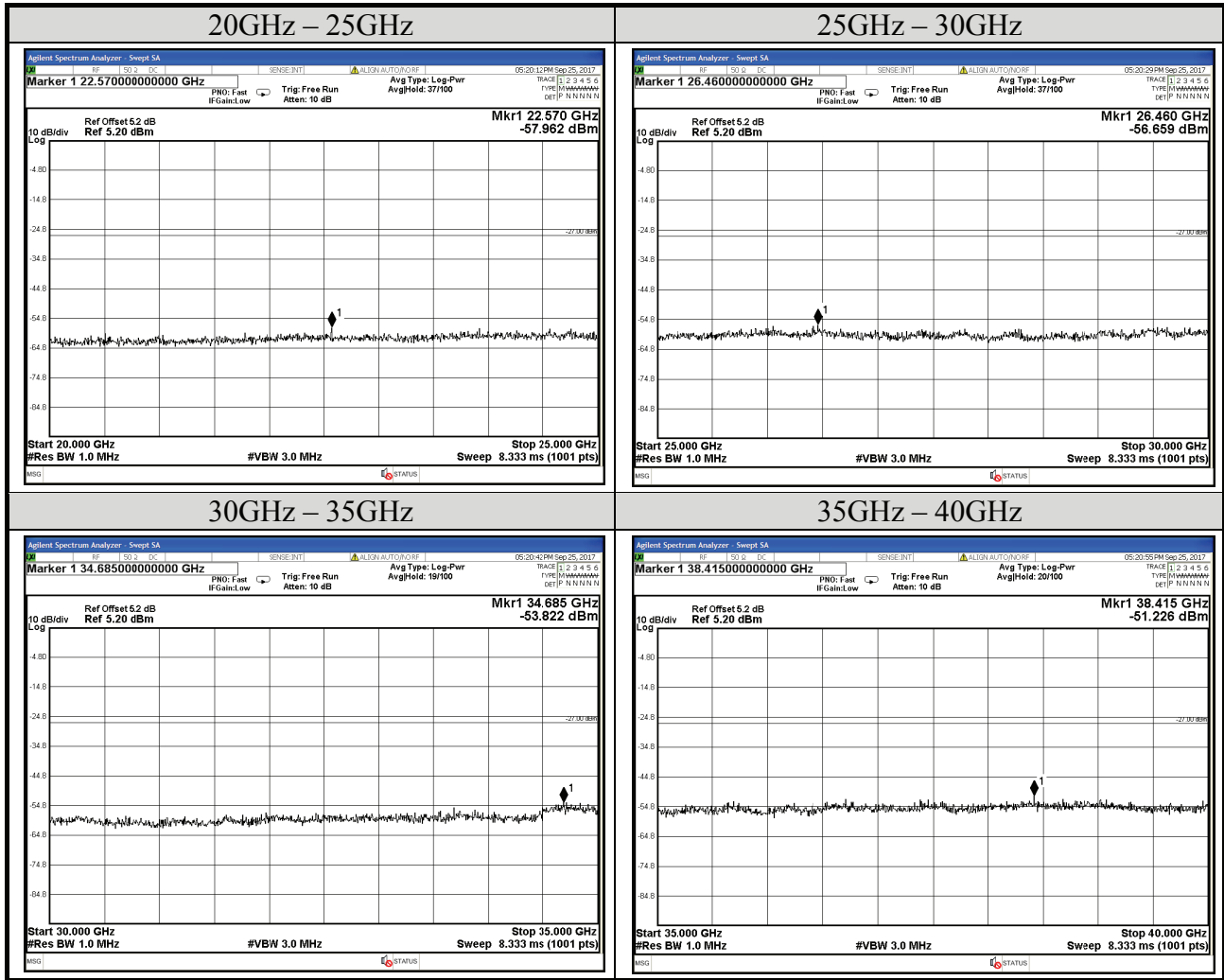
Note 3: 802.11n Directional gain is 8dBi > 6dBi, the Limit is $30 - (8-6) = 28$ dBm

A.5 EMISSION LIMITATIONS MEASUREMENT

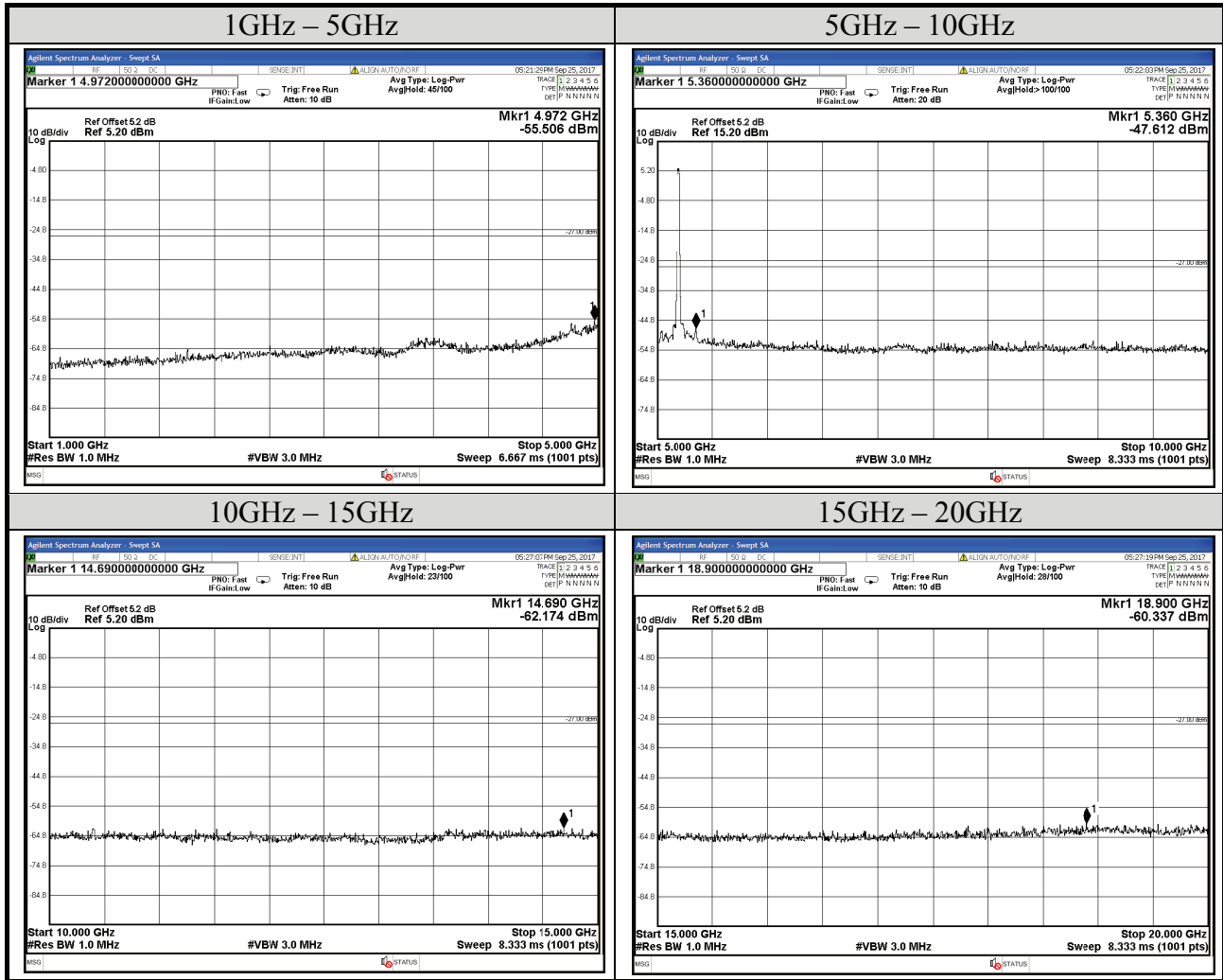
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Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

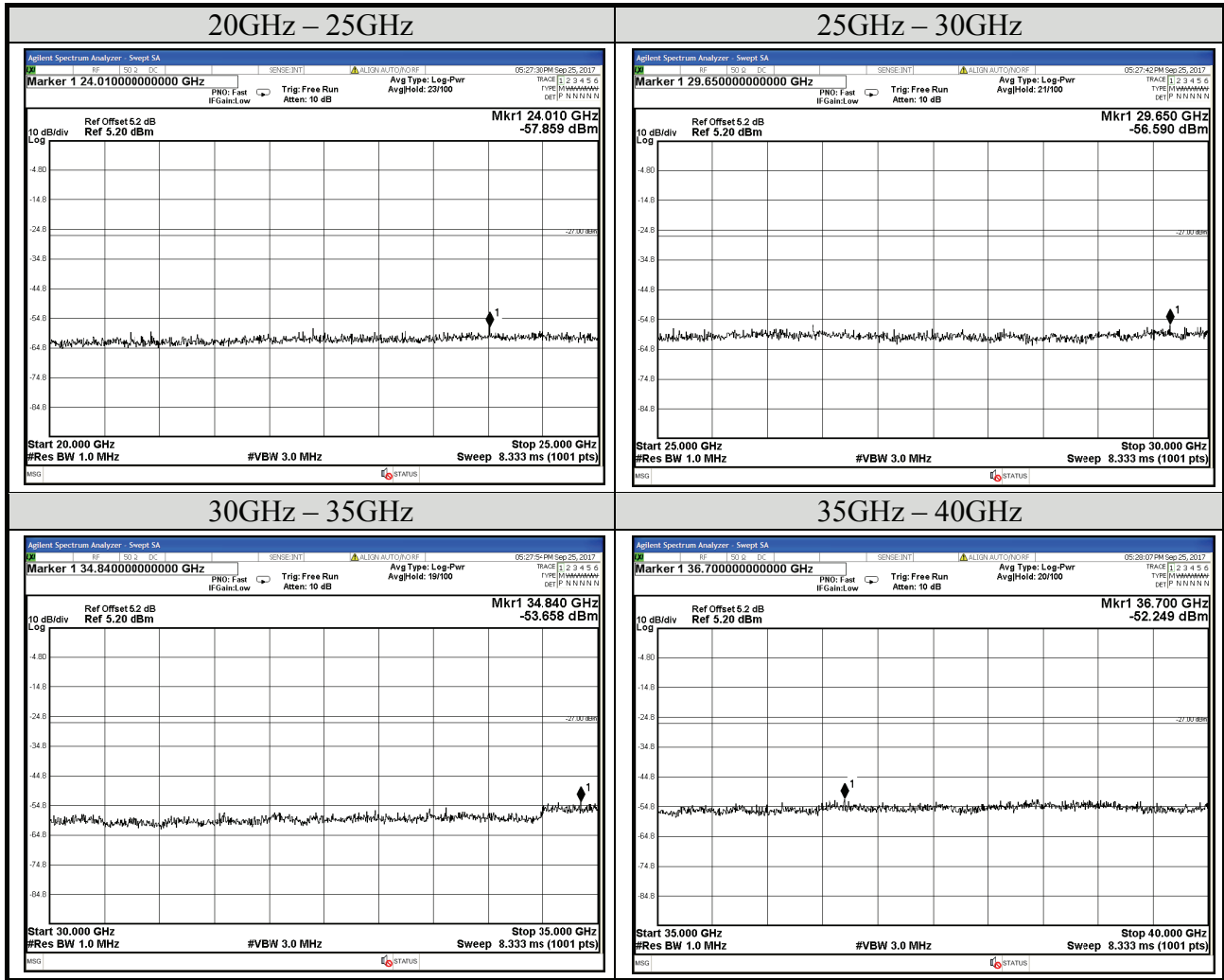
Antenna: PCB Antenna



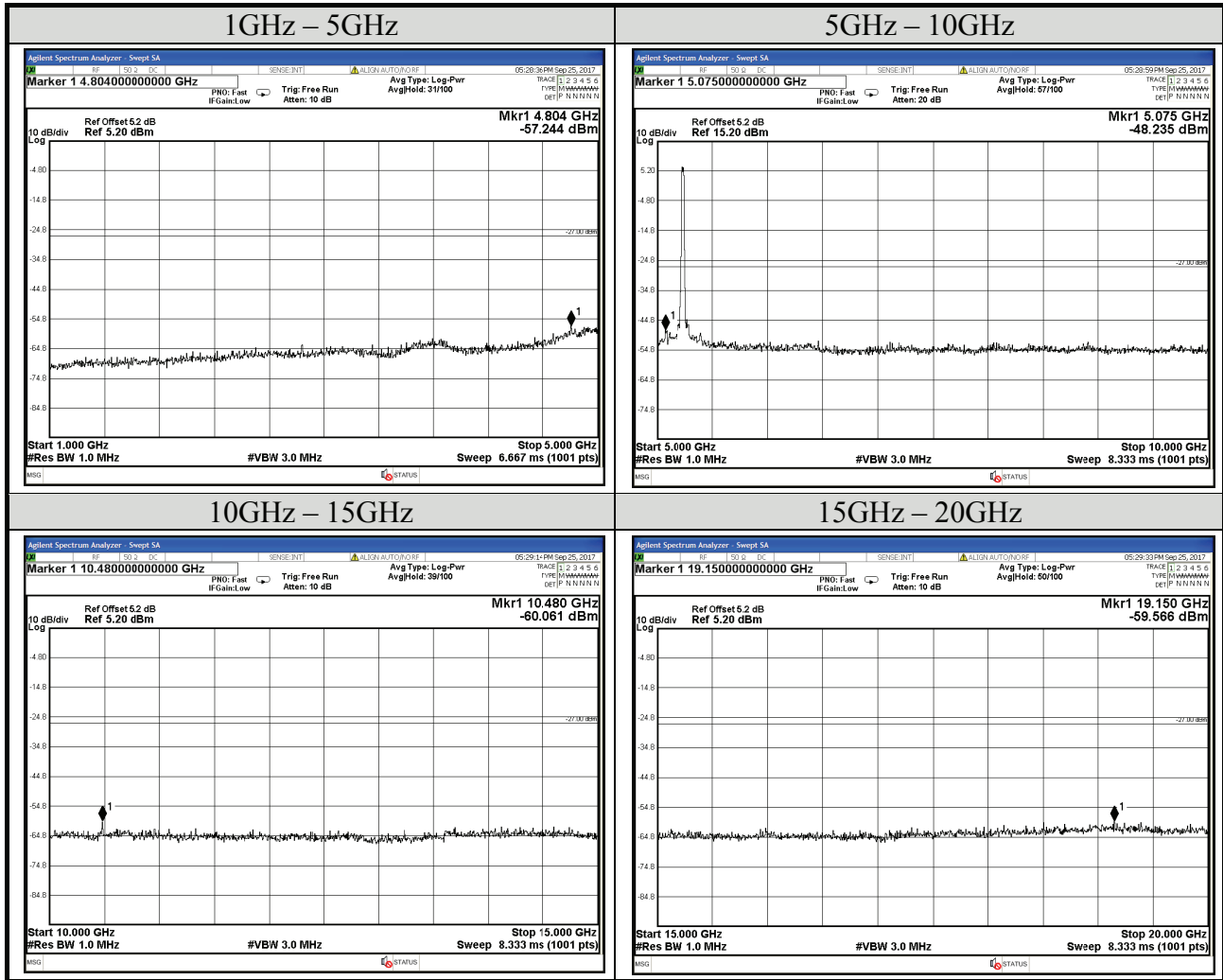


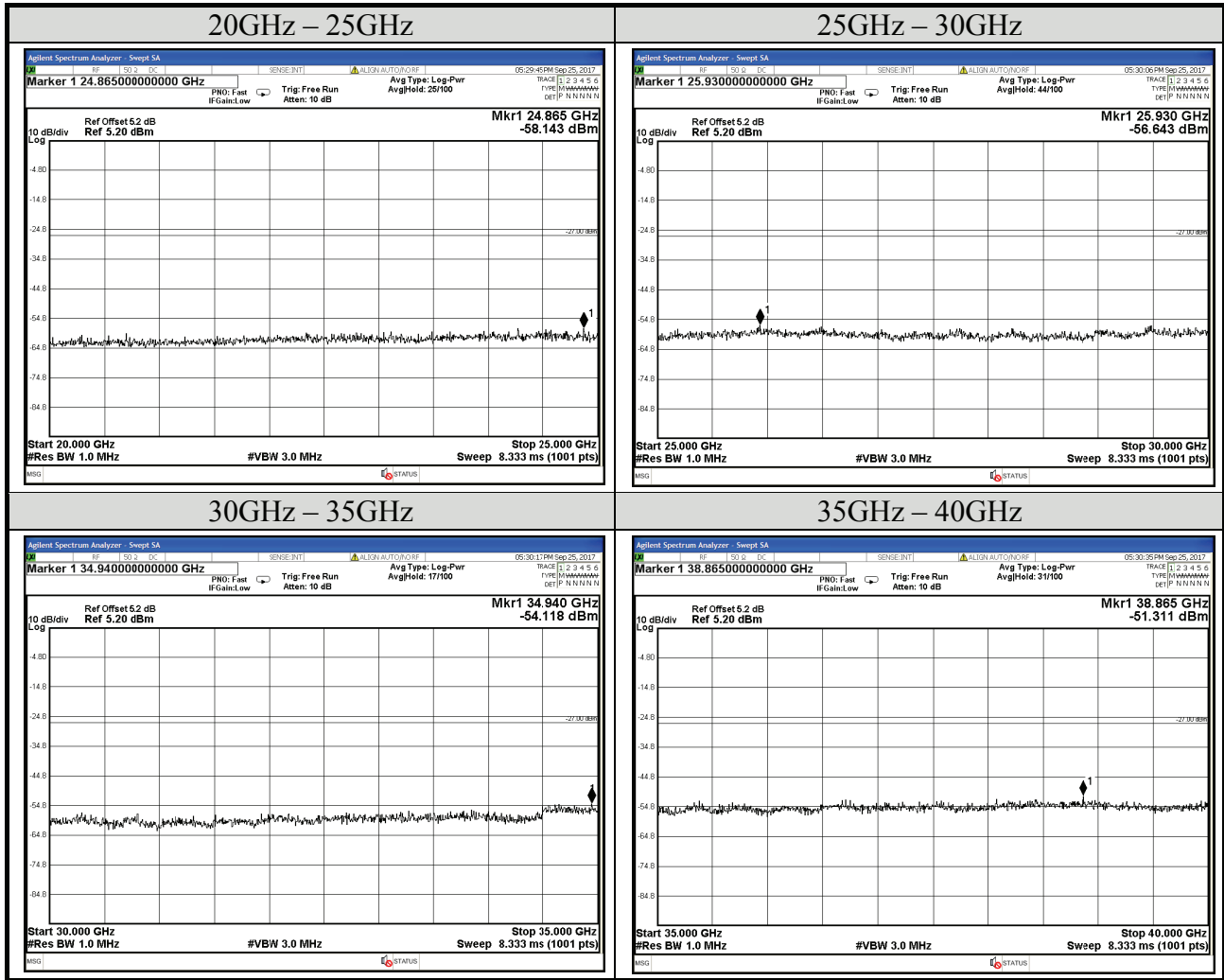
Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	





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

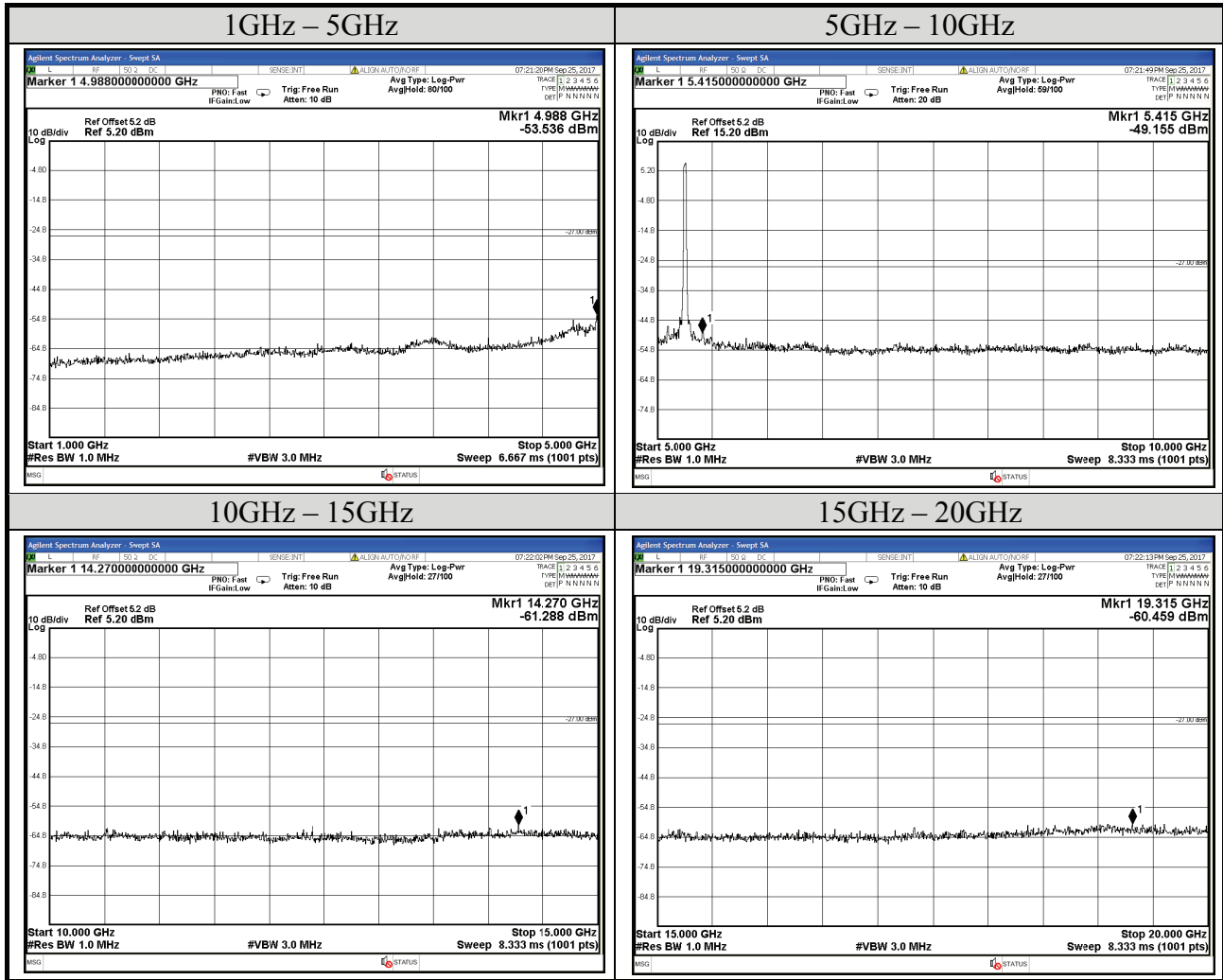




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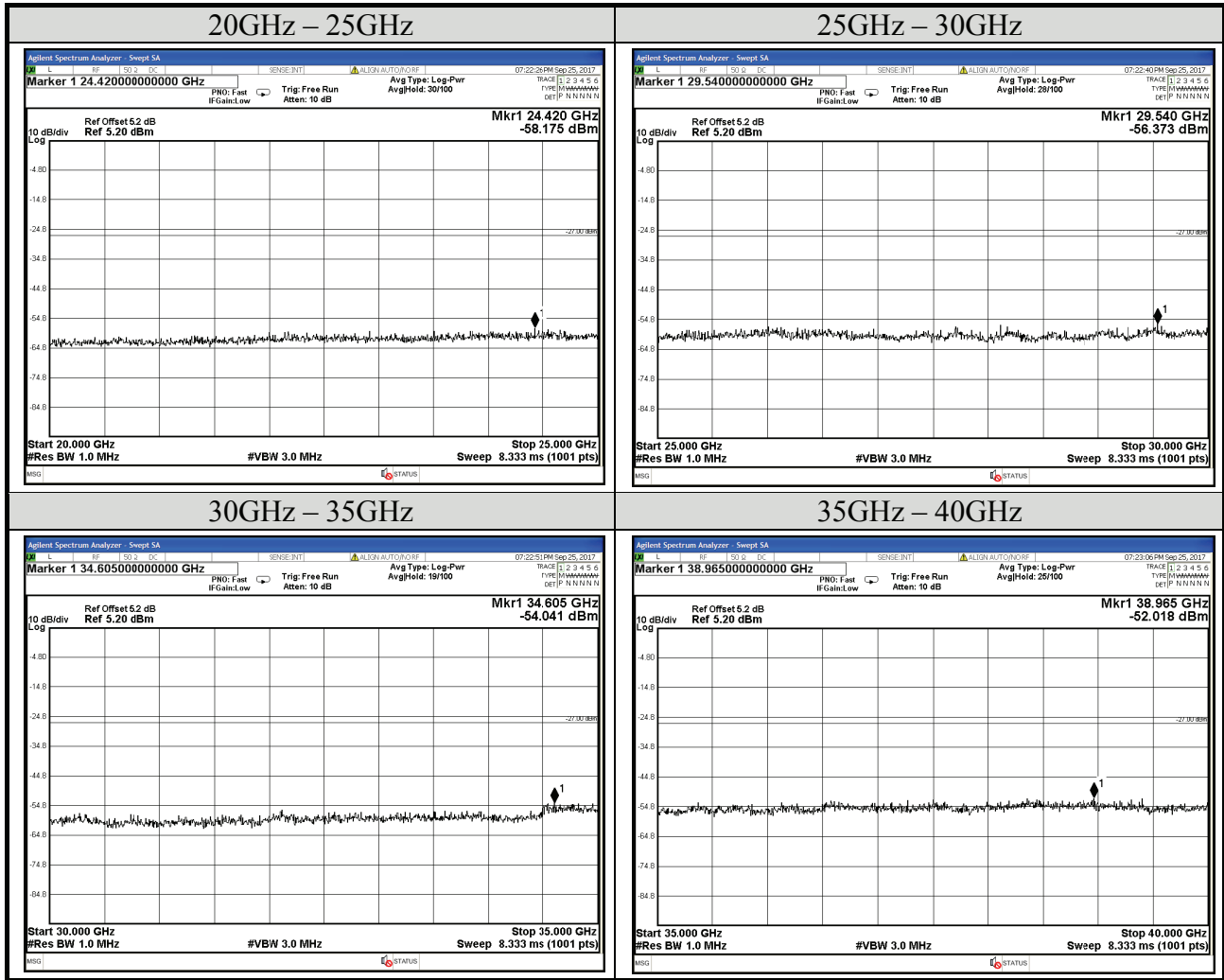
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5260MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	

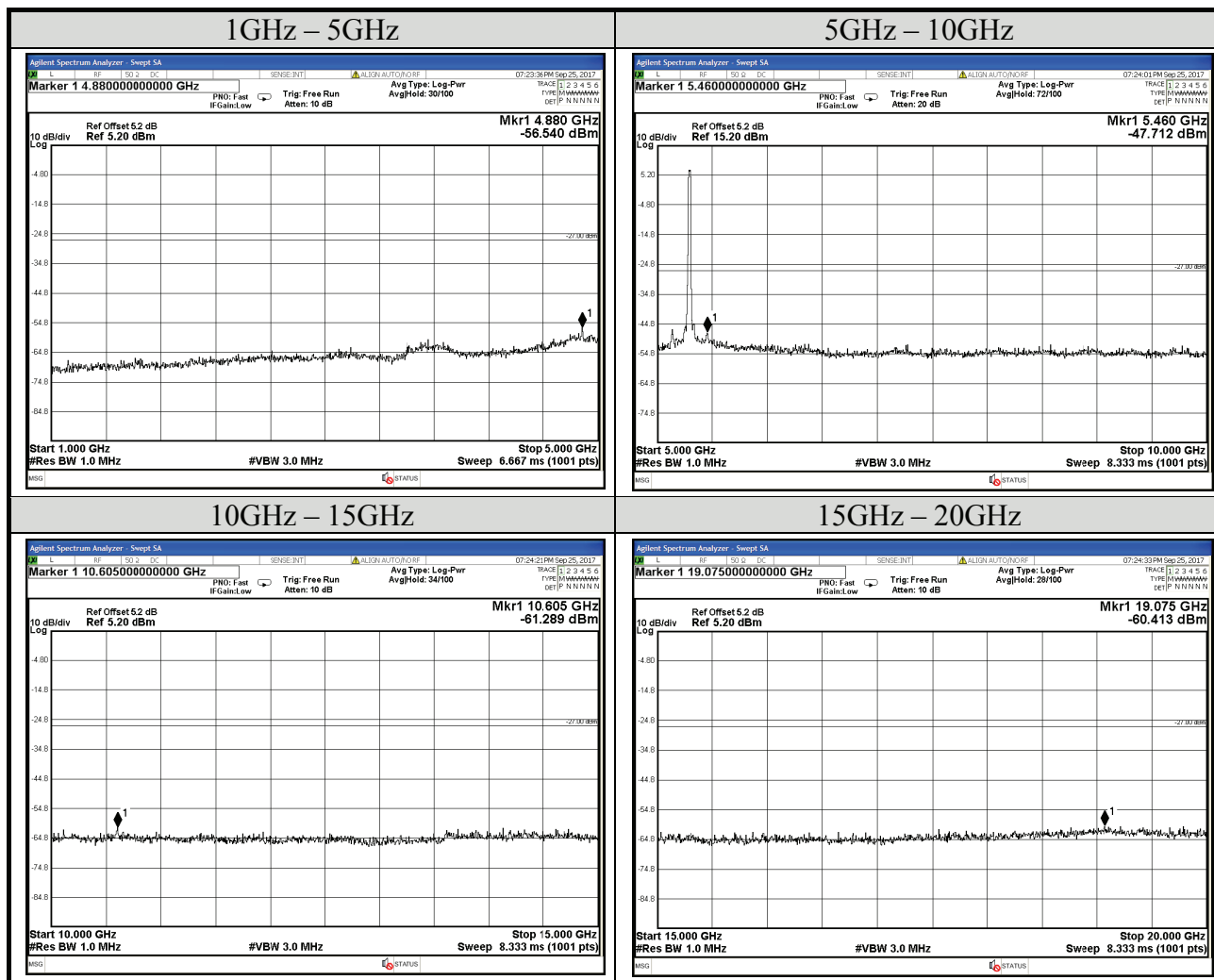


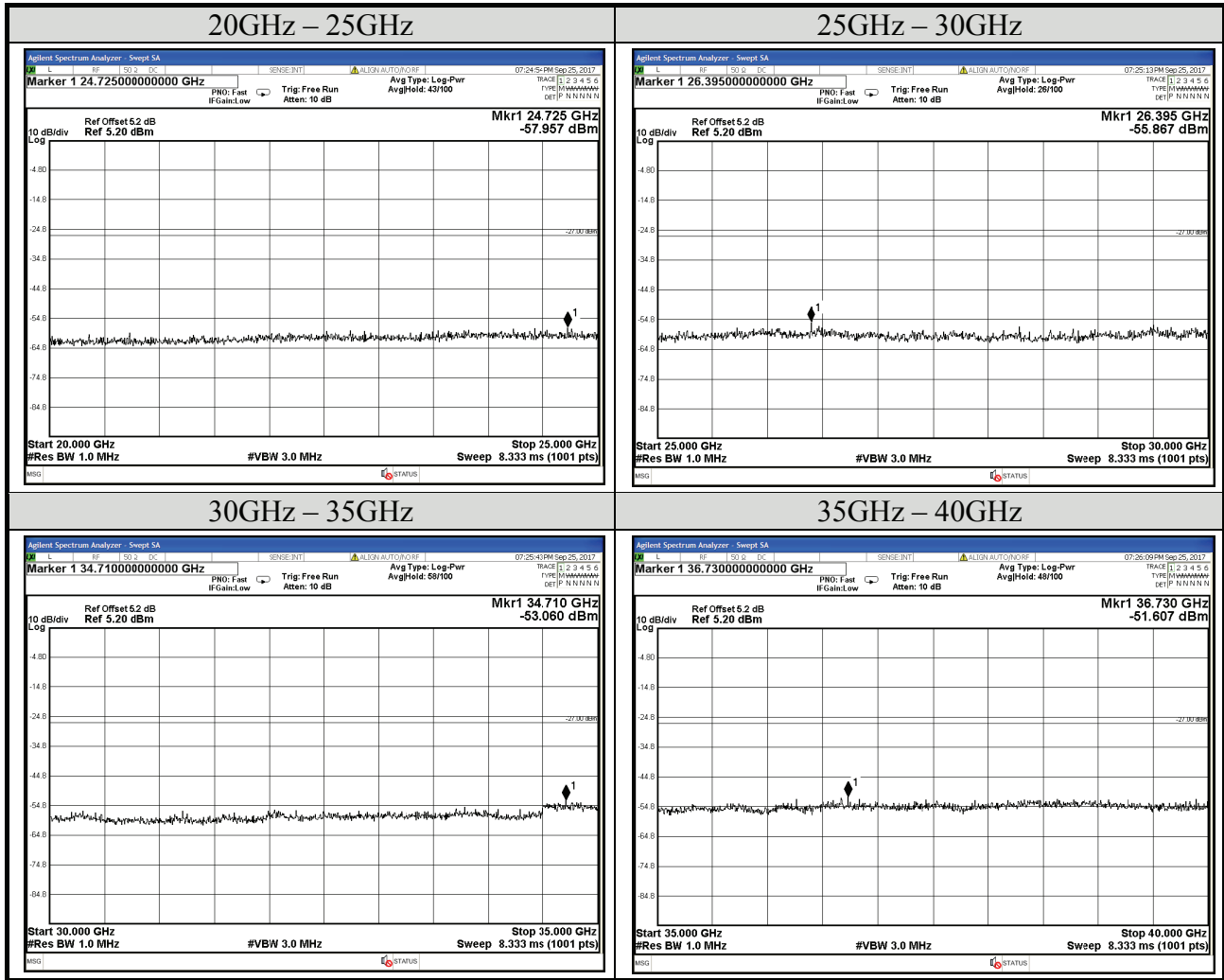
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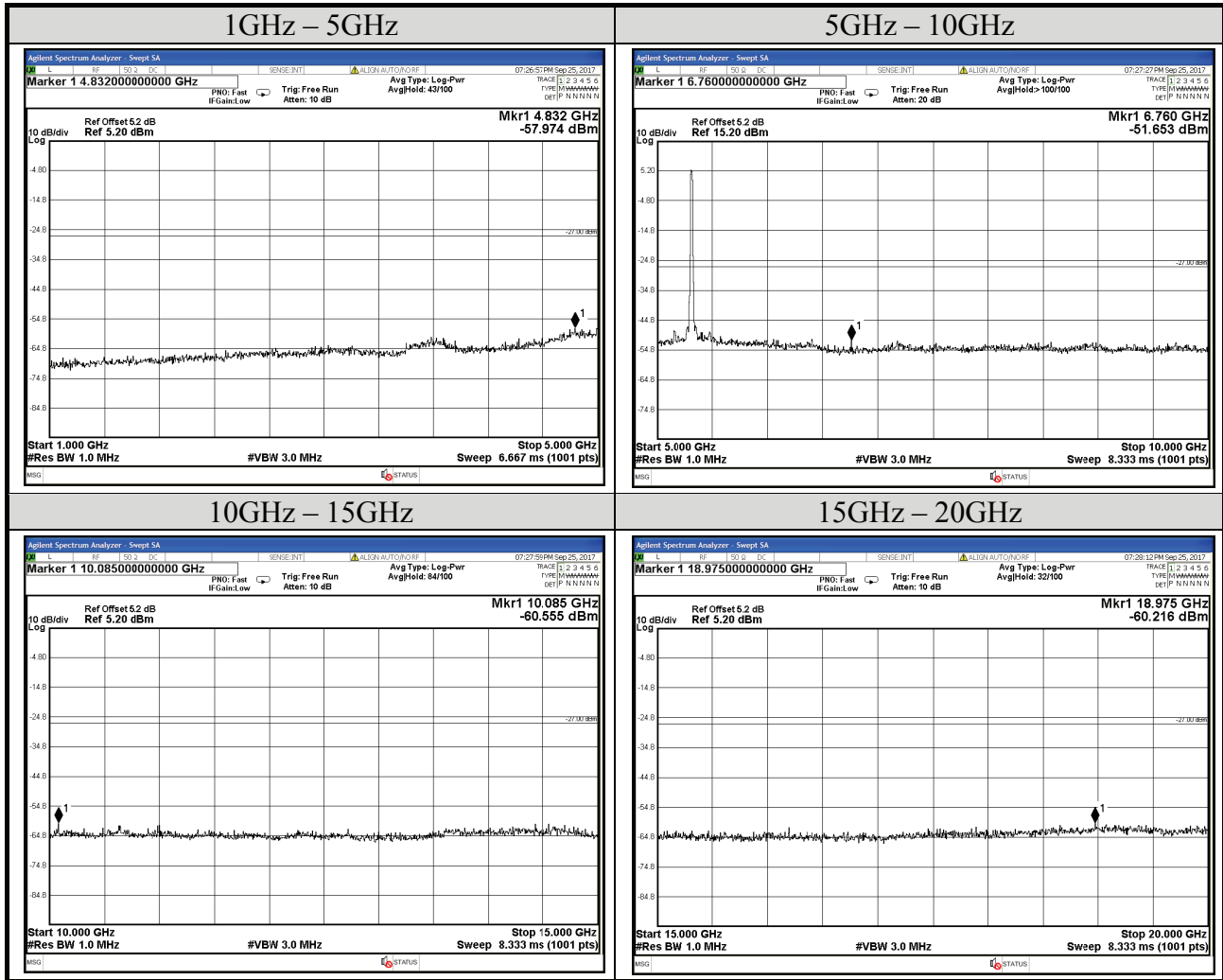


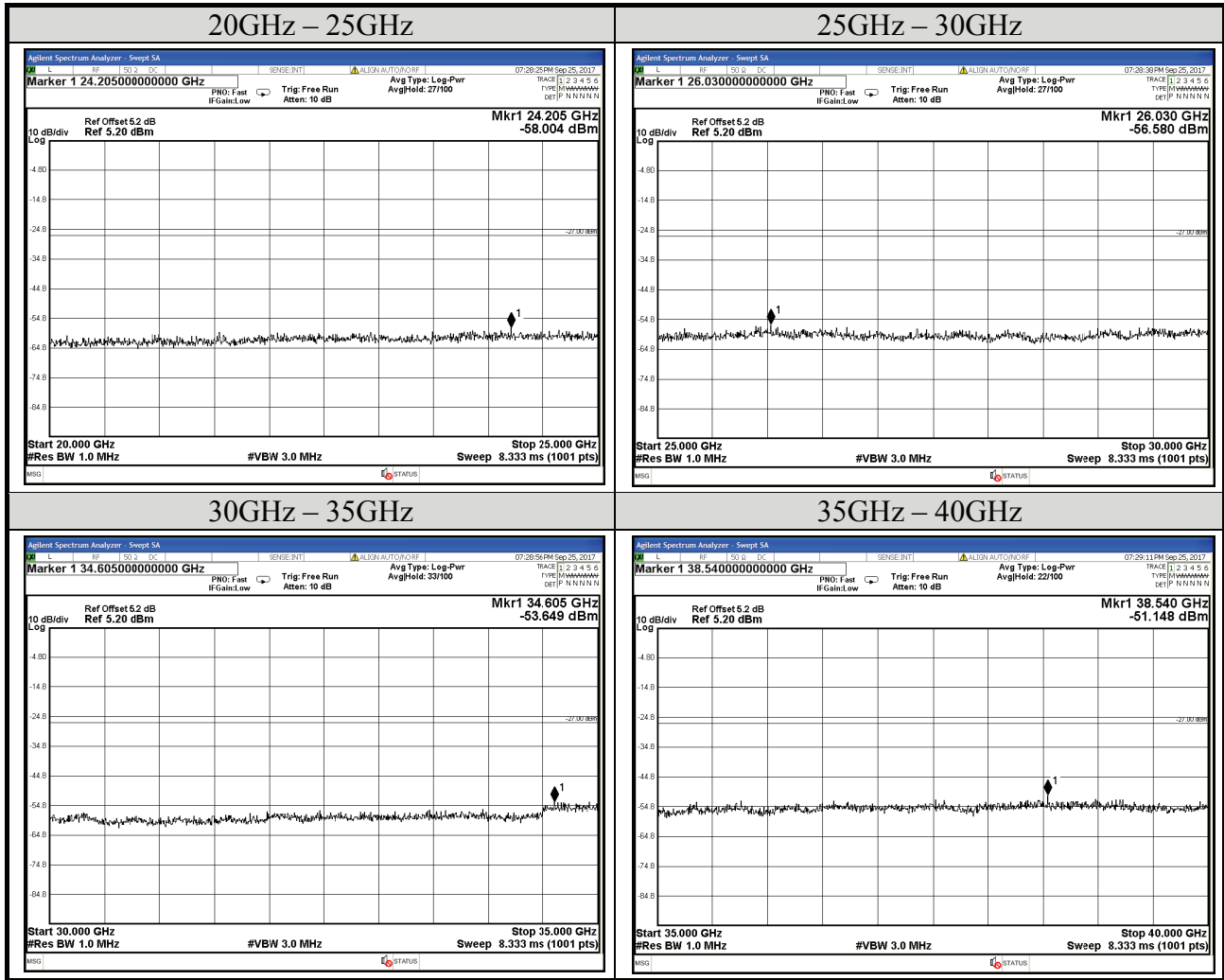
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Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5300MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	



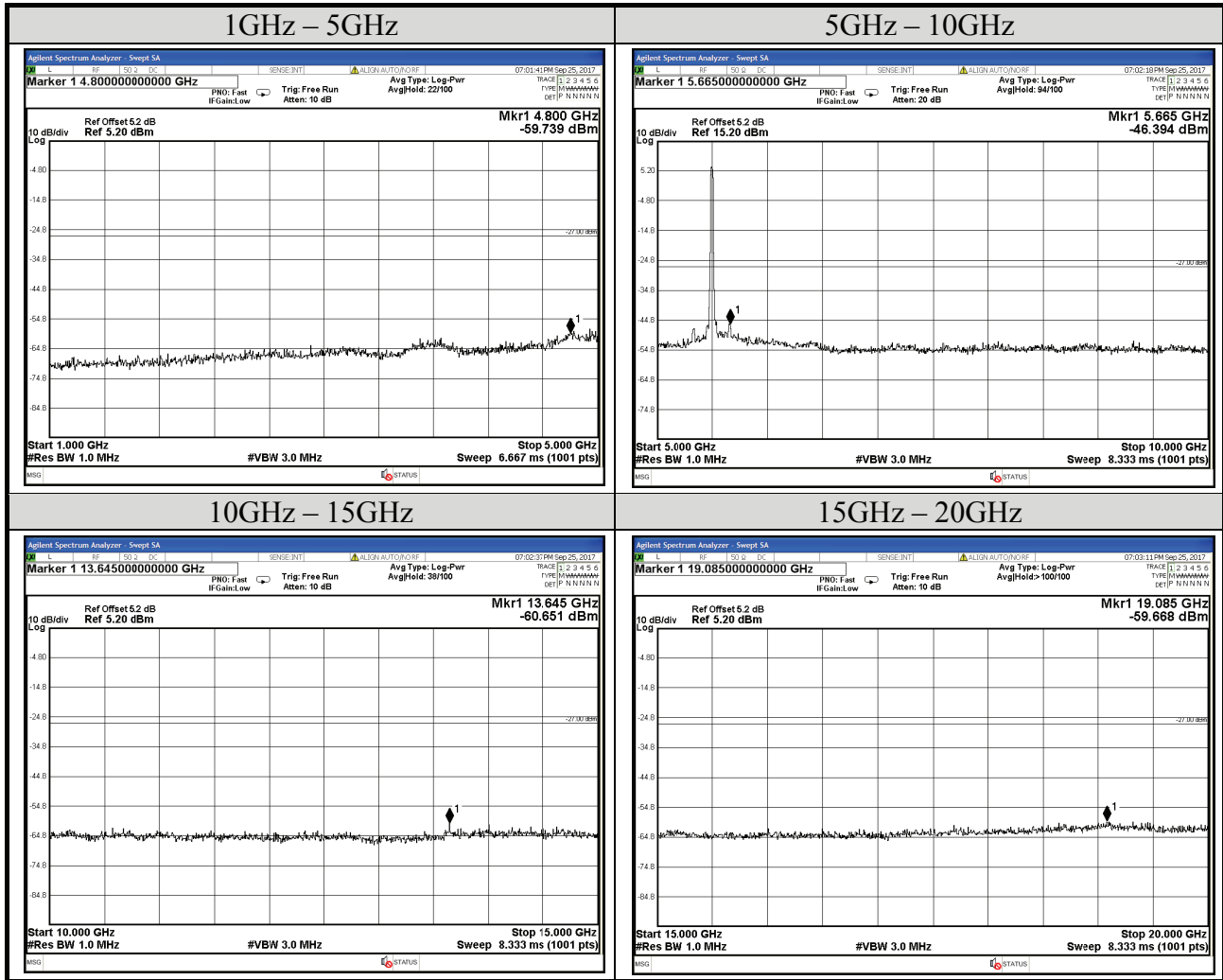


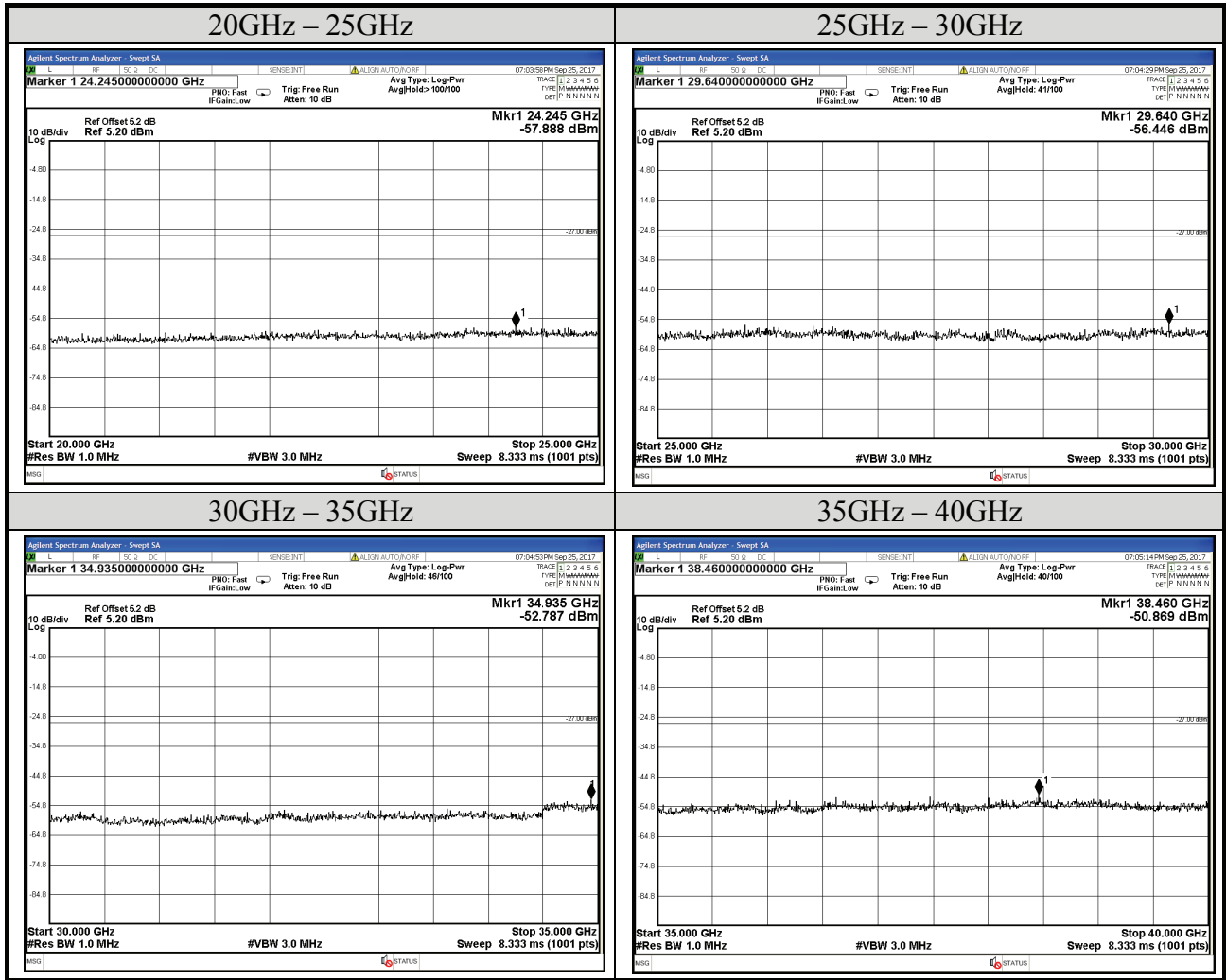
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Mode	802.11a	UNII Band	II-2A
		Frequency	TX 5320MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	





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

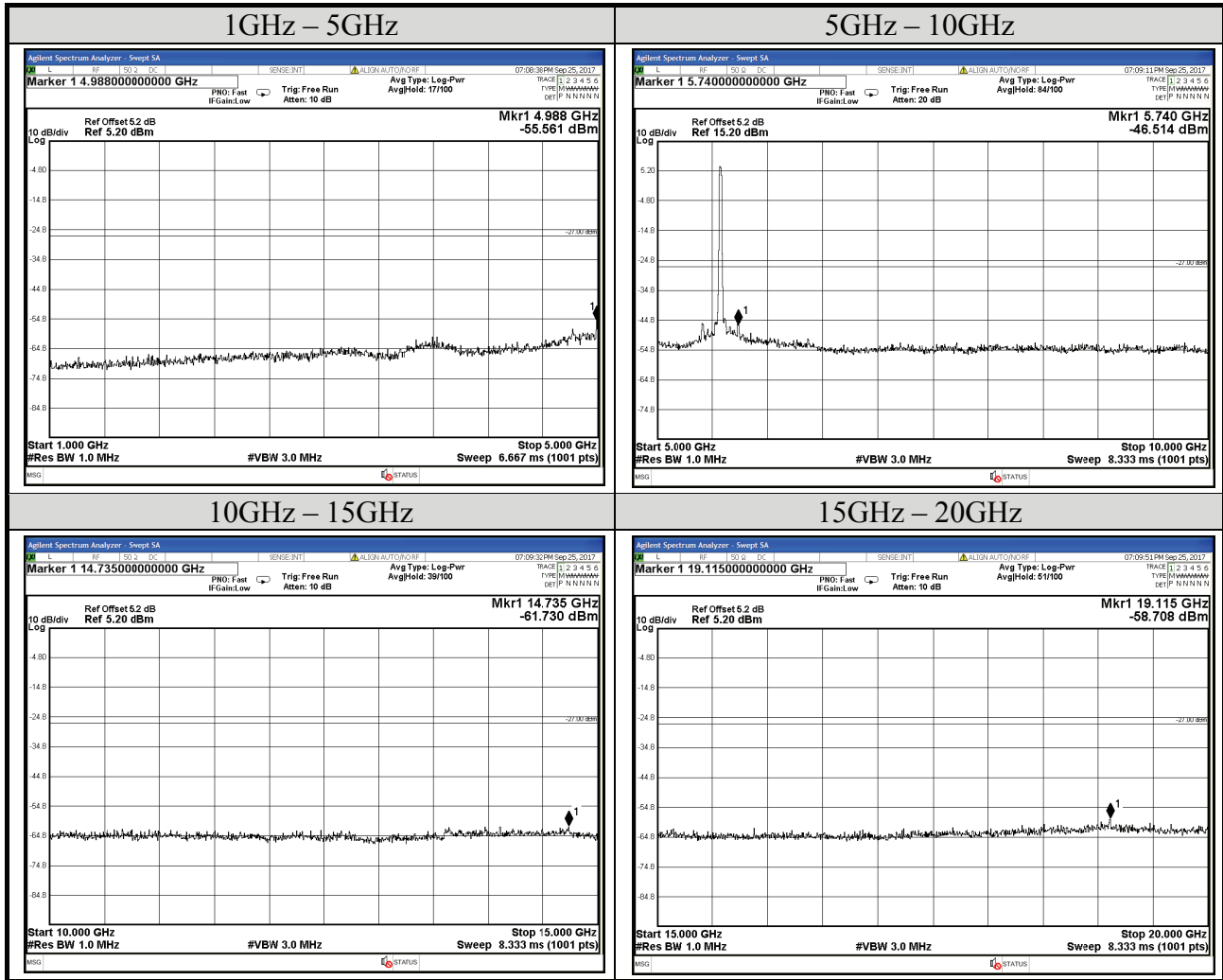




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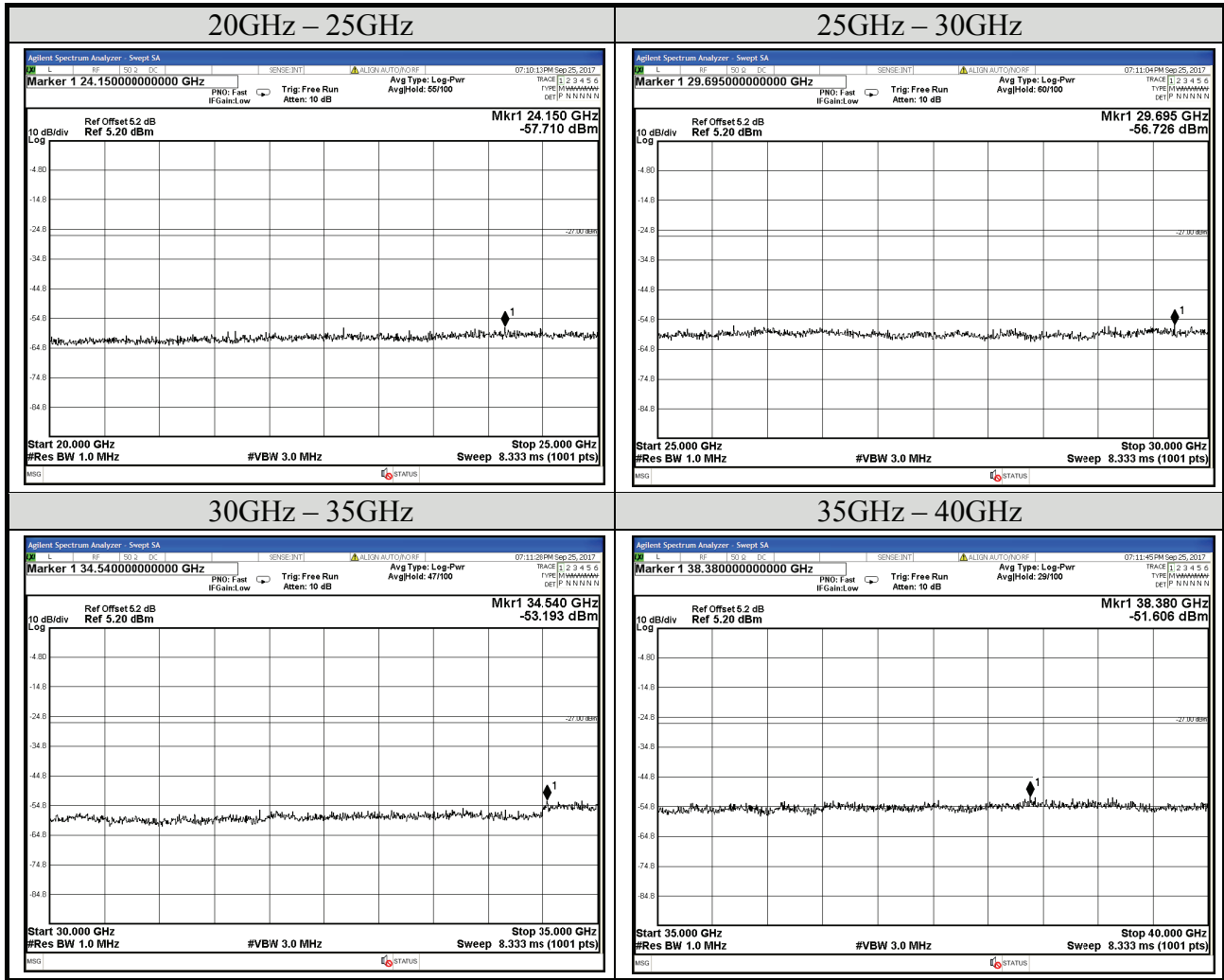
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Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5600MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	



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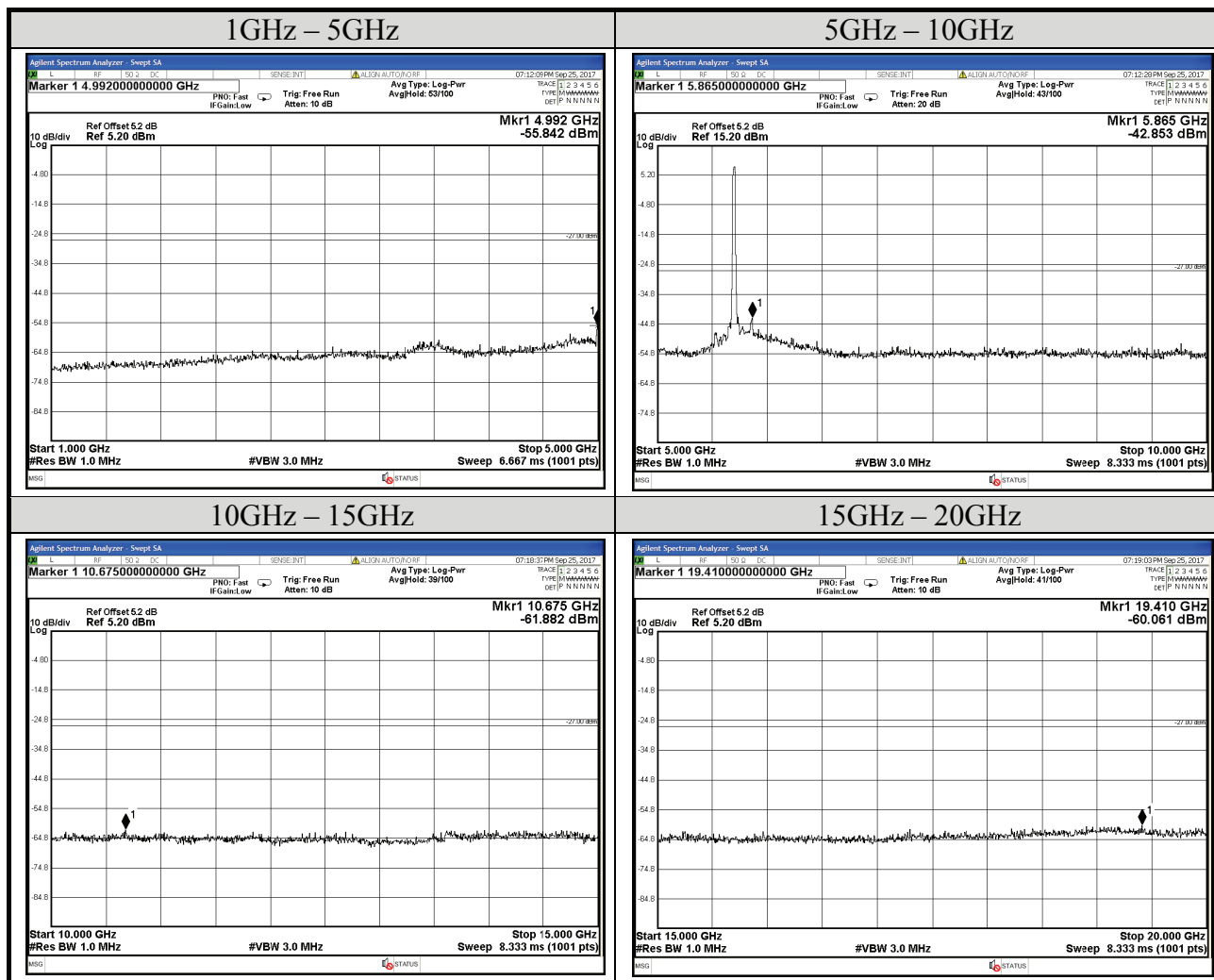
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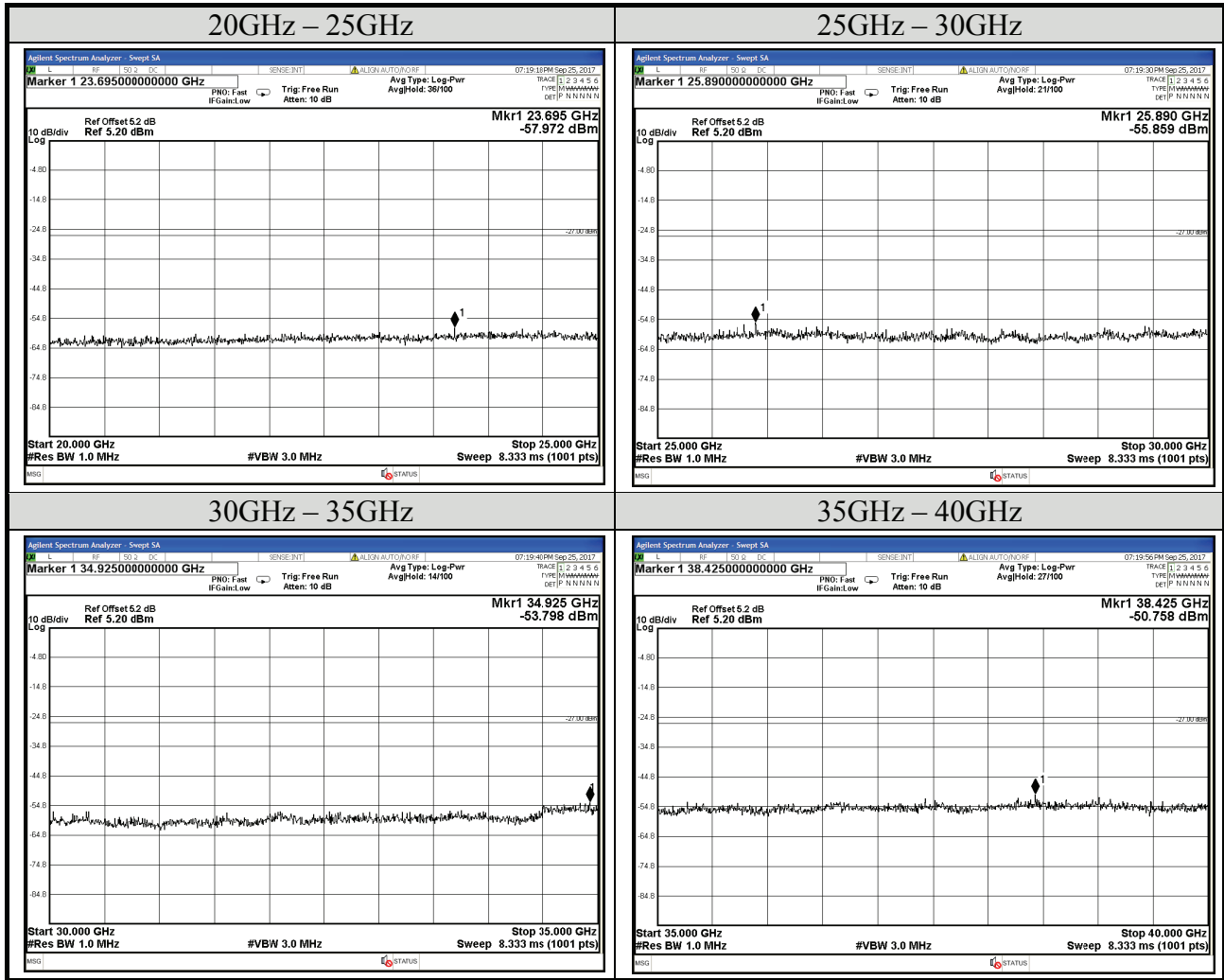


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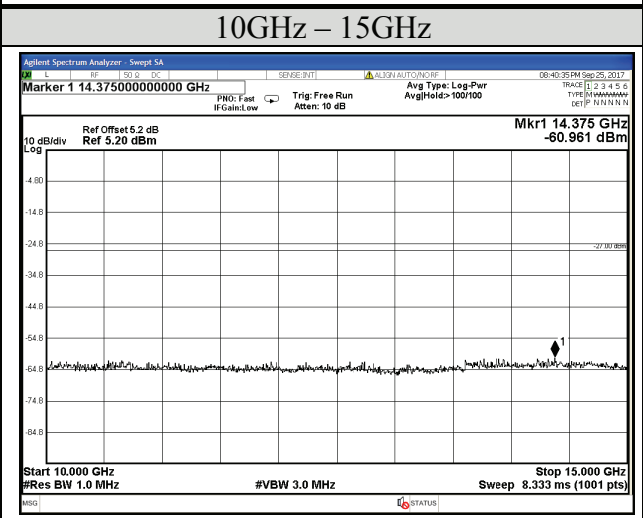
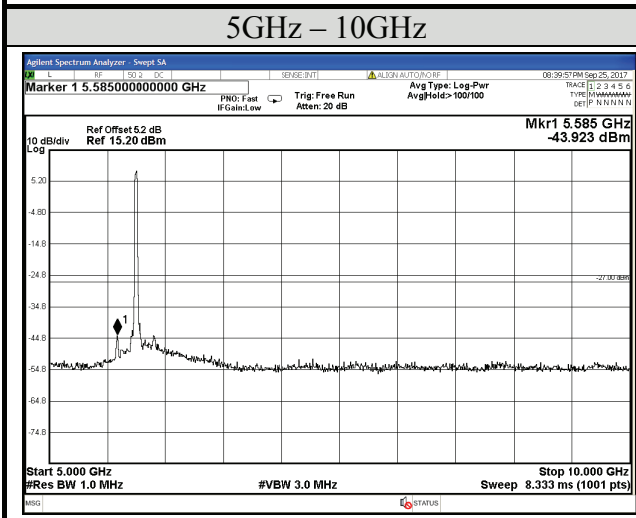
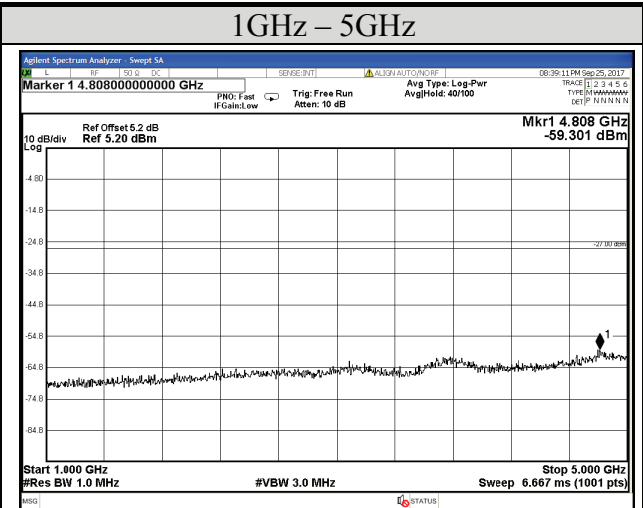
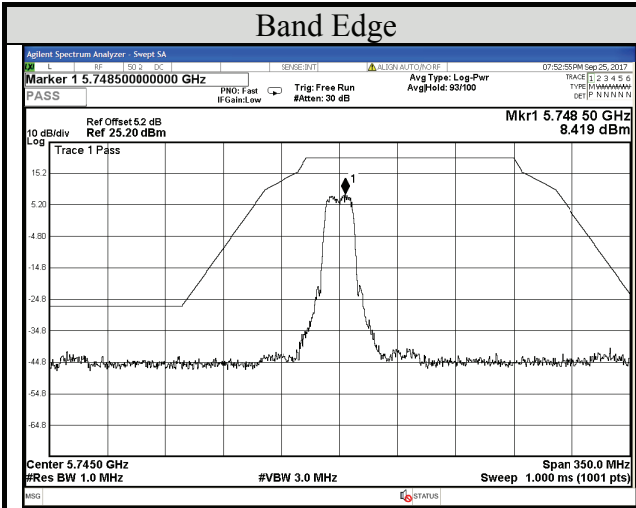
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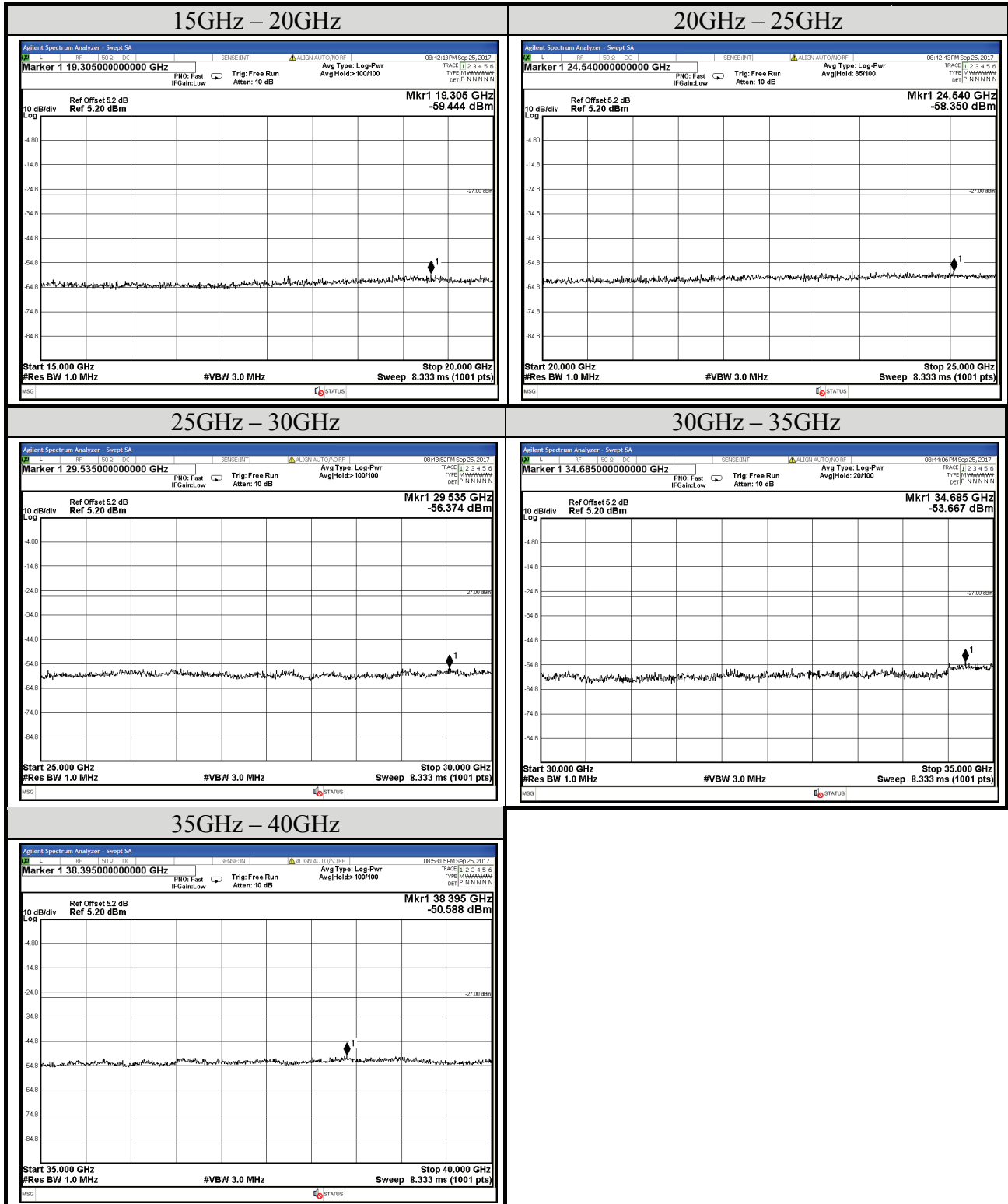
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Mode	802.11a	UNII Band	II-2C
		Frequency	TX 5700MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	



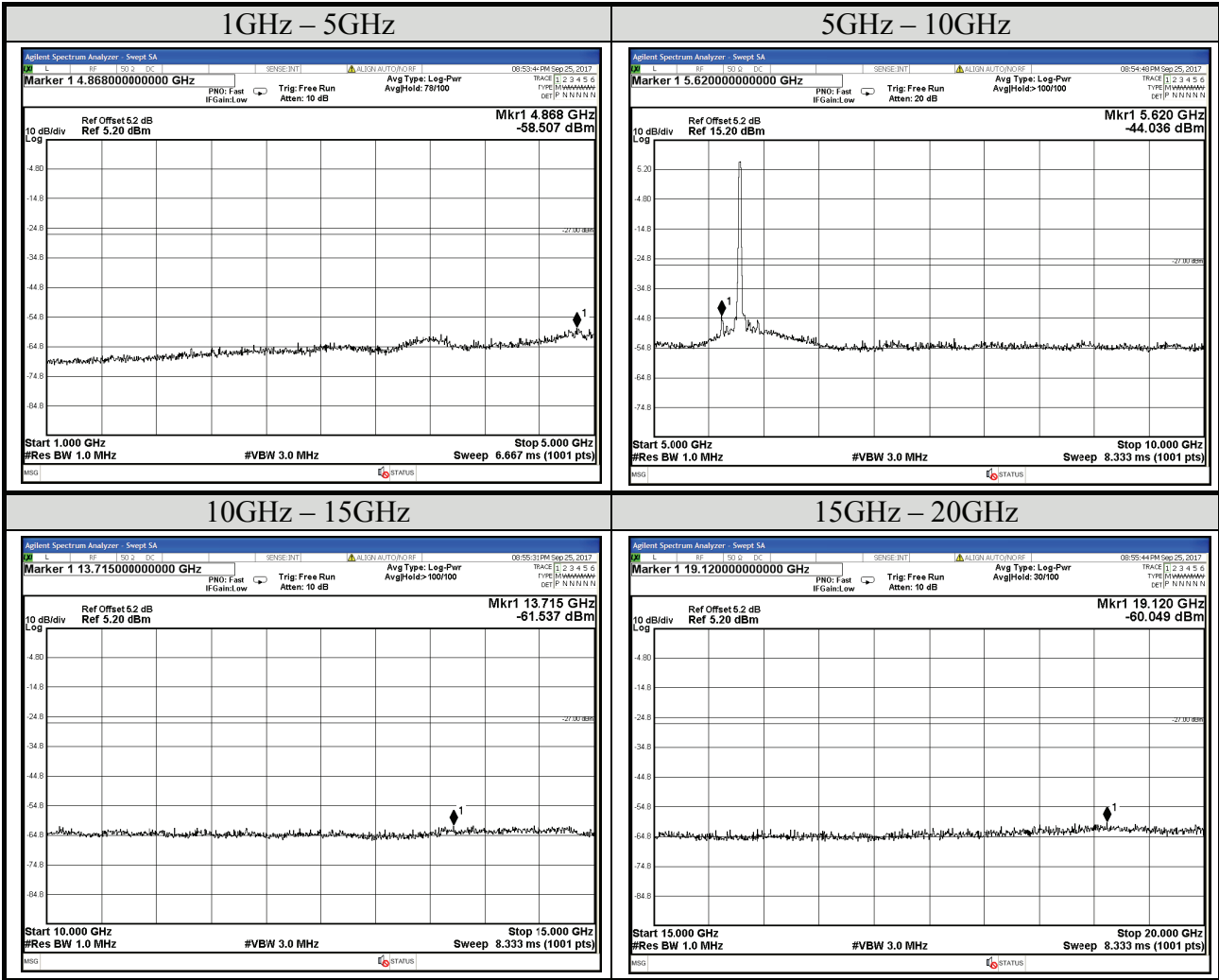


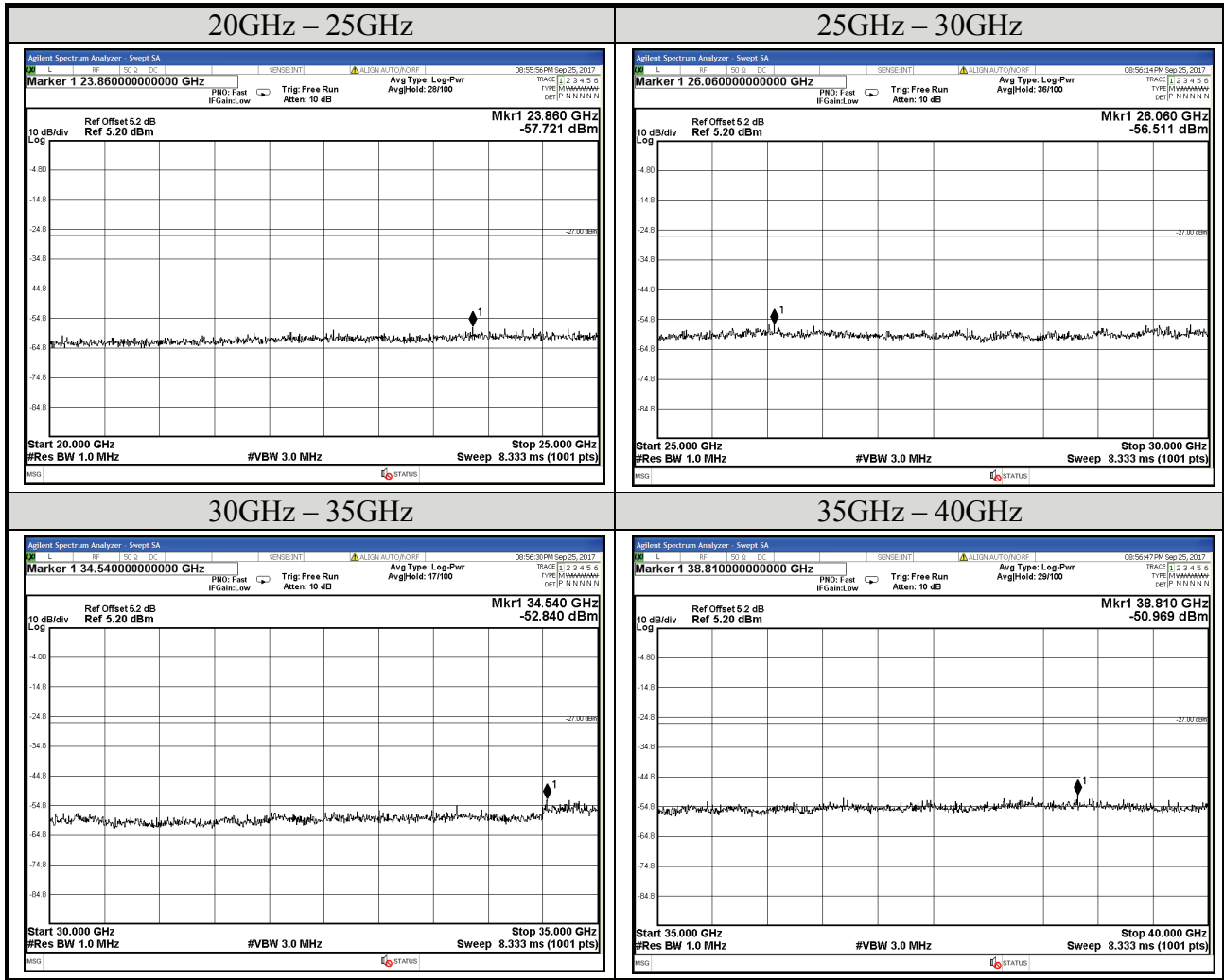
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Mode	802.11a	UNII Band	III
		Frequency	TX 5745MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	



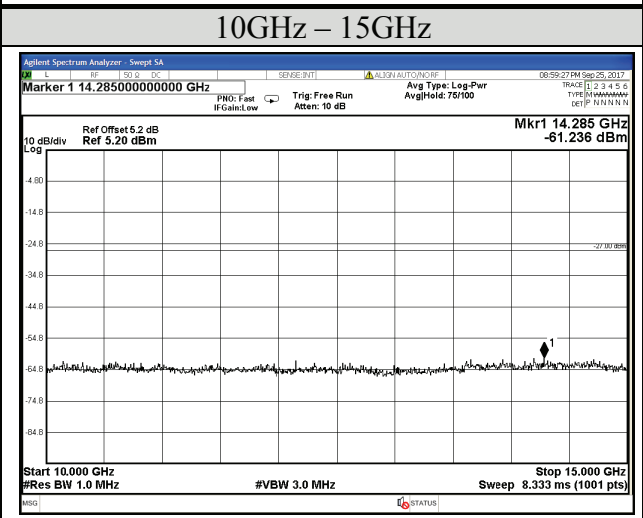
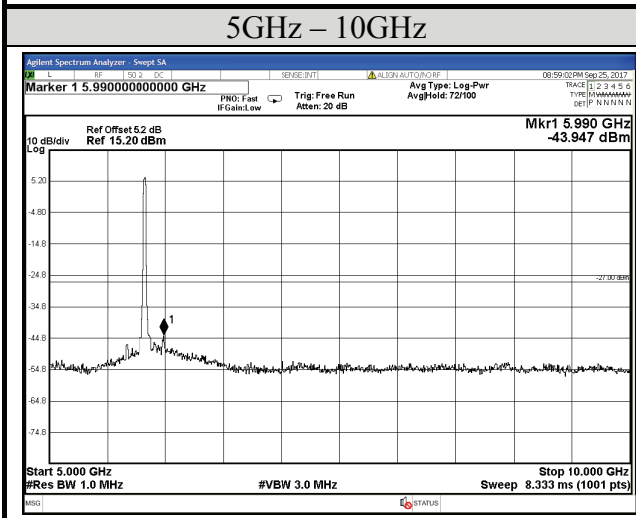
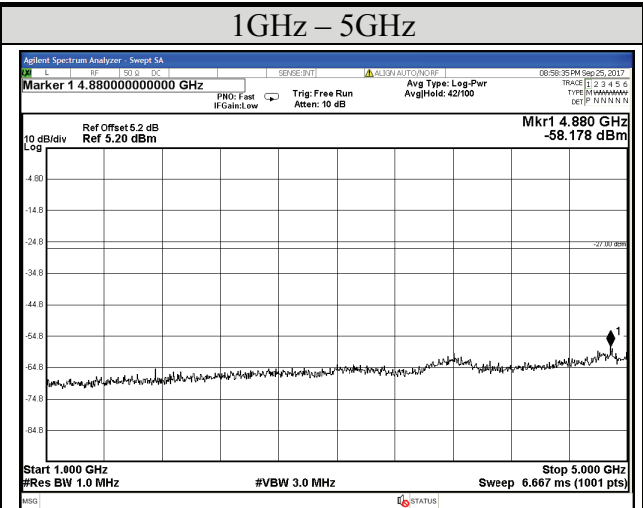
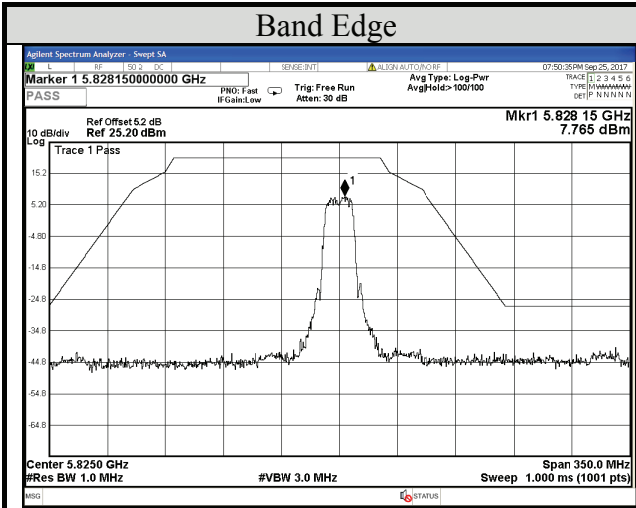


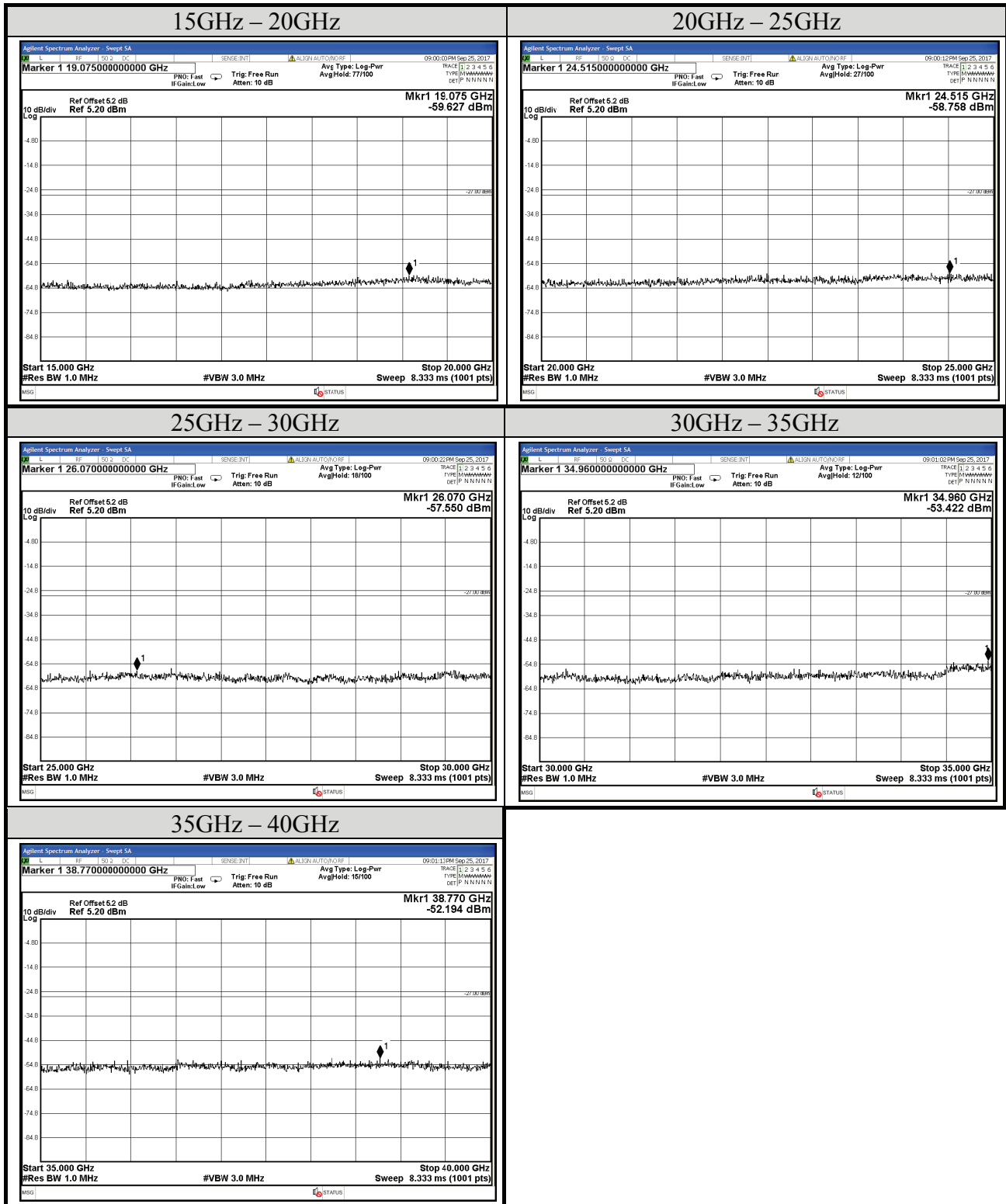
Test Date	2017/09/25	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		0	





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

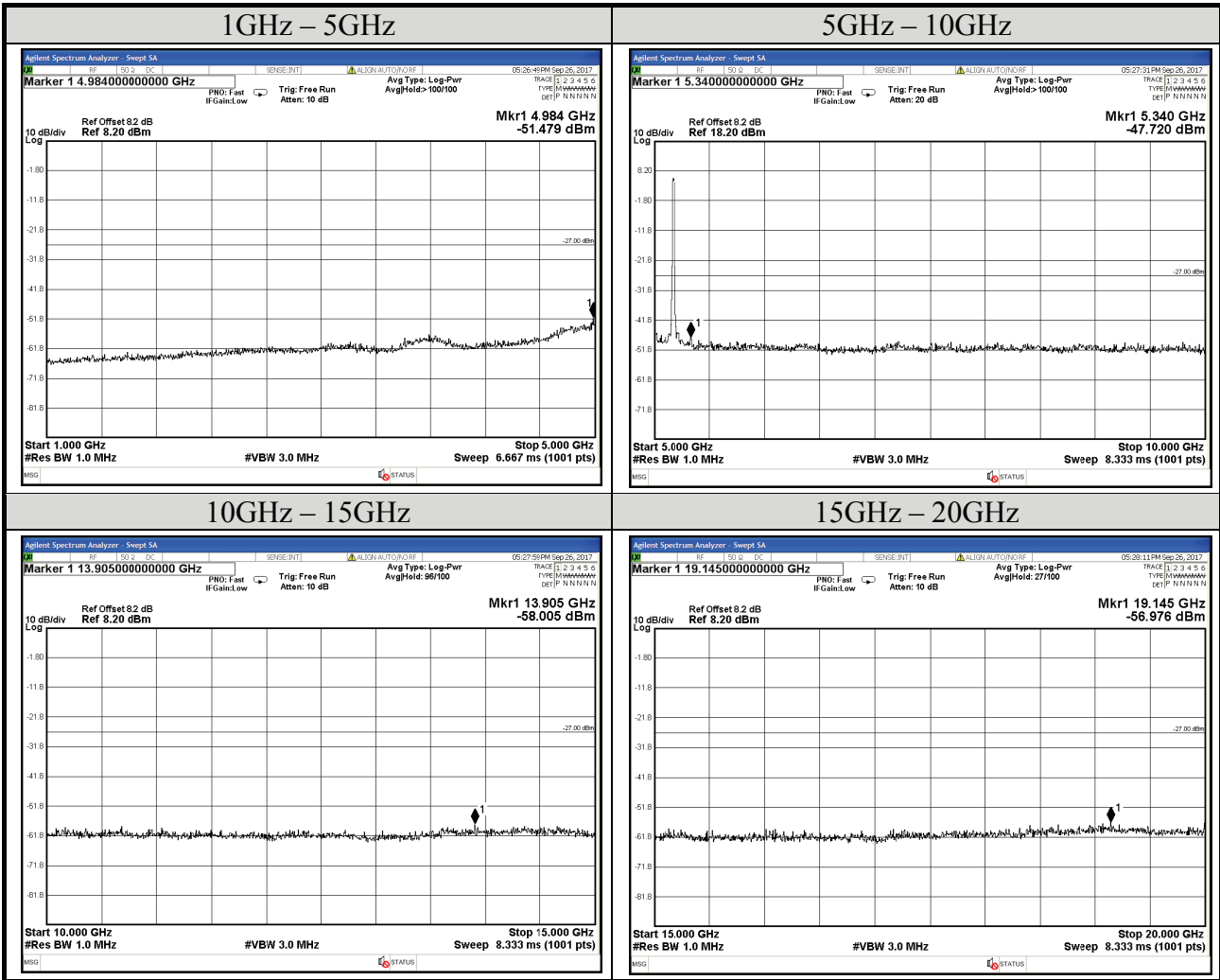


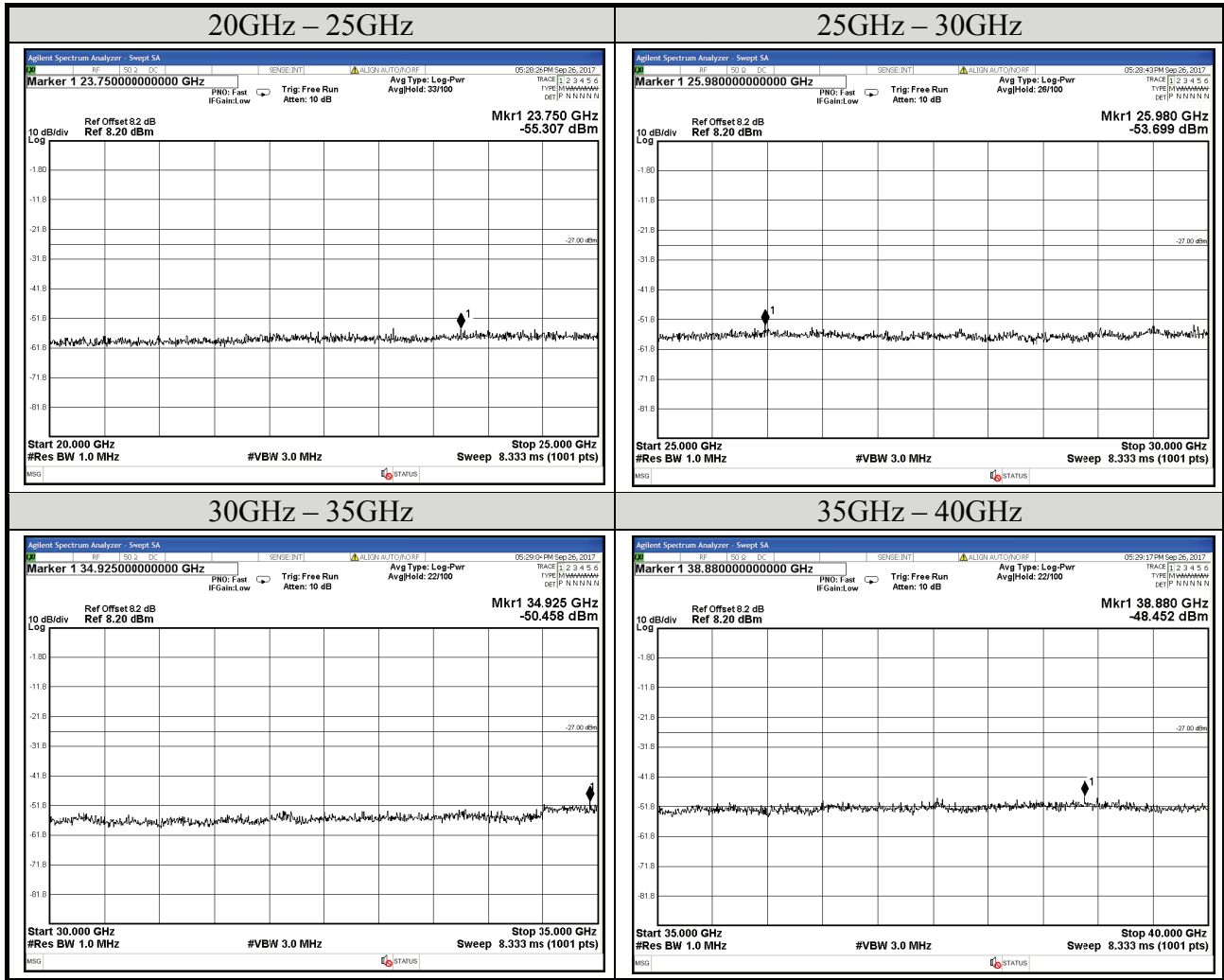


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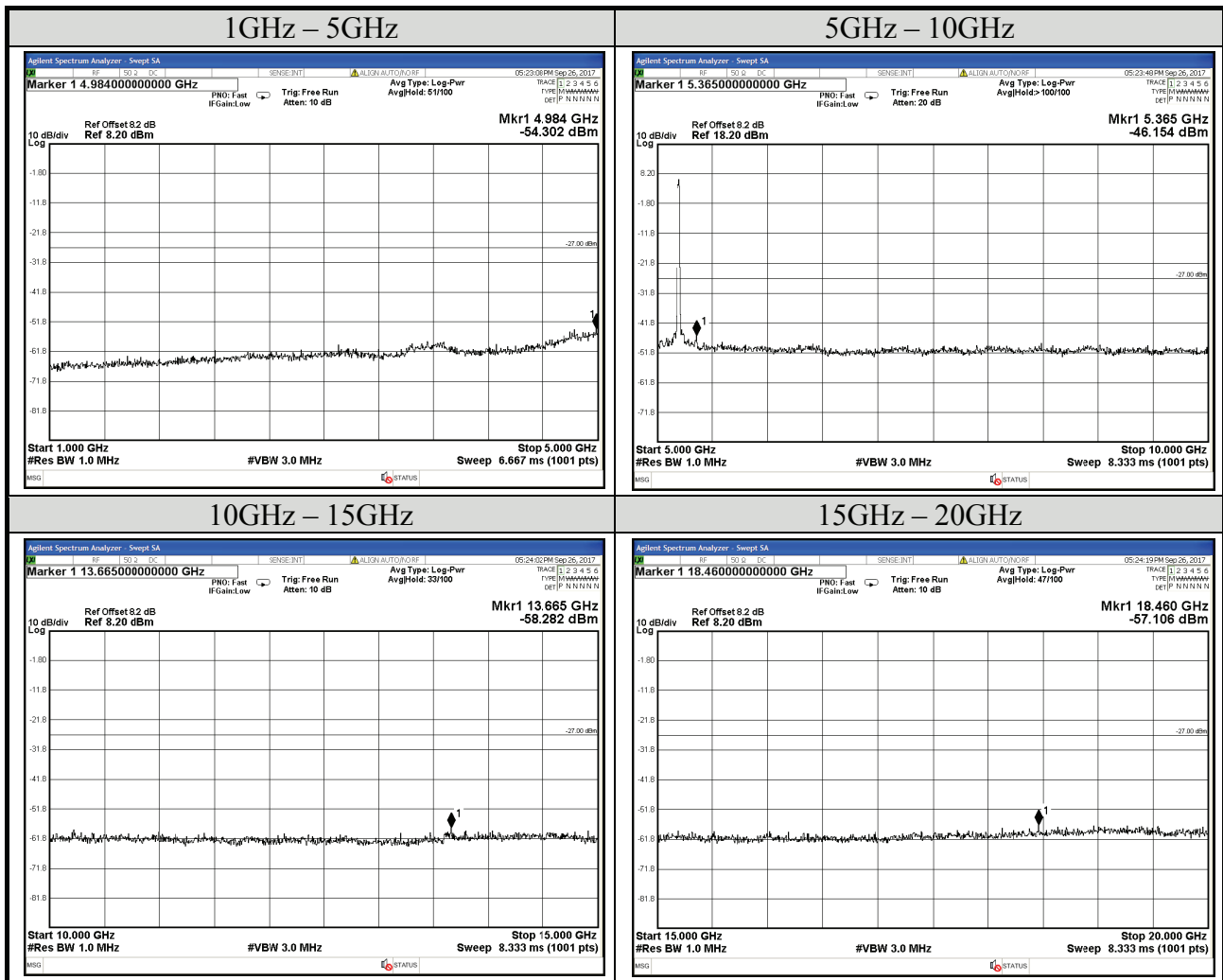
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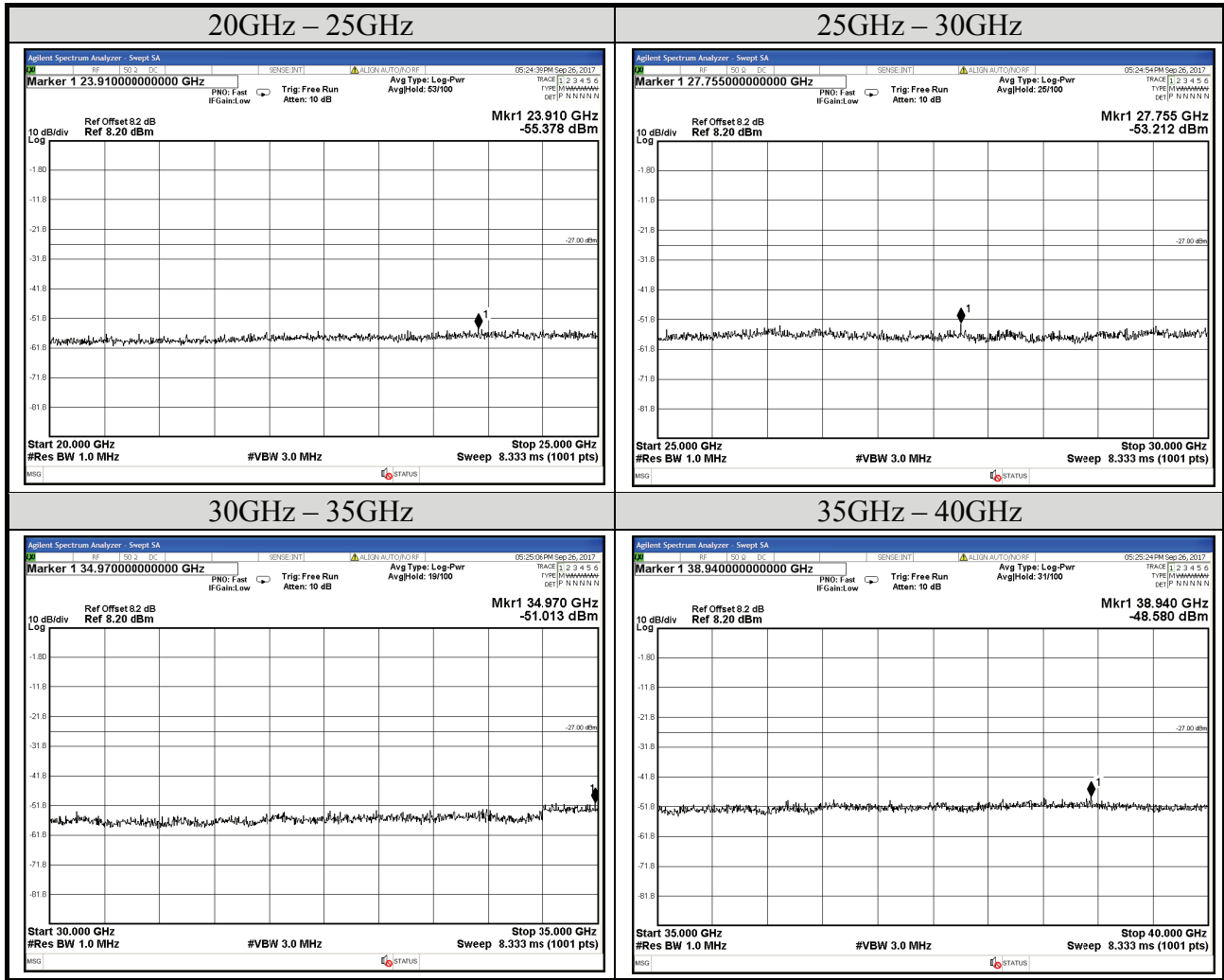
Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5180MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



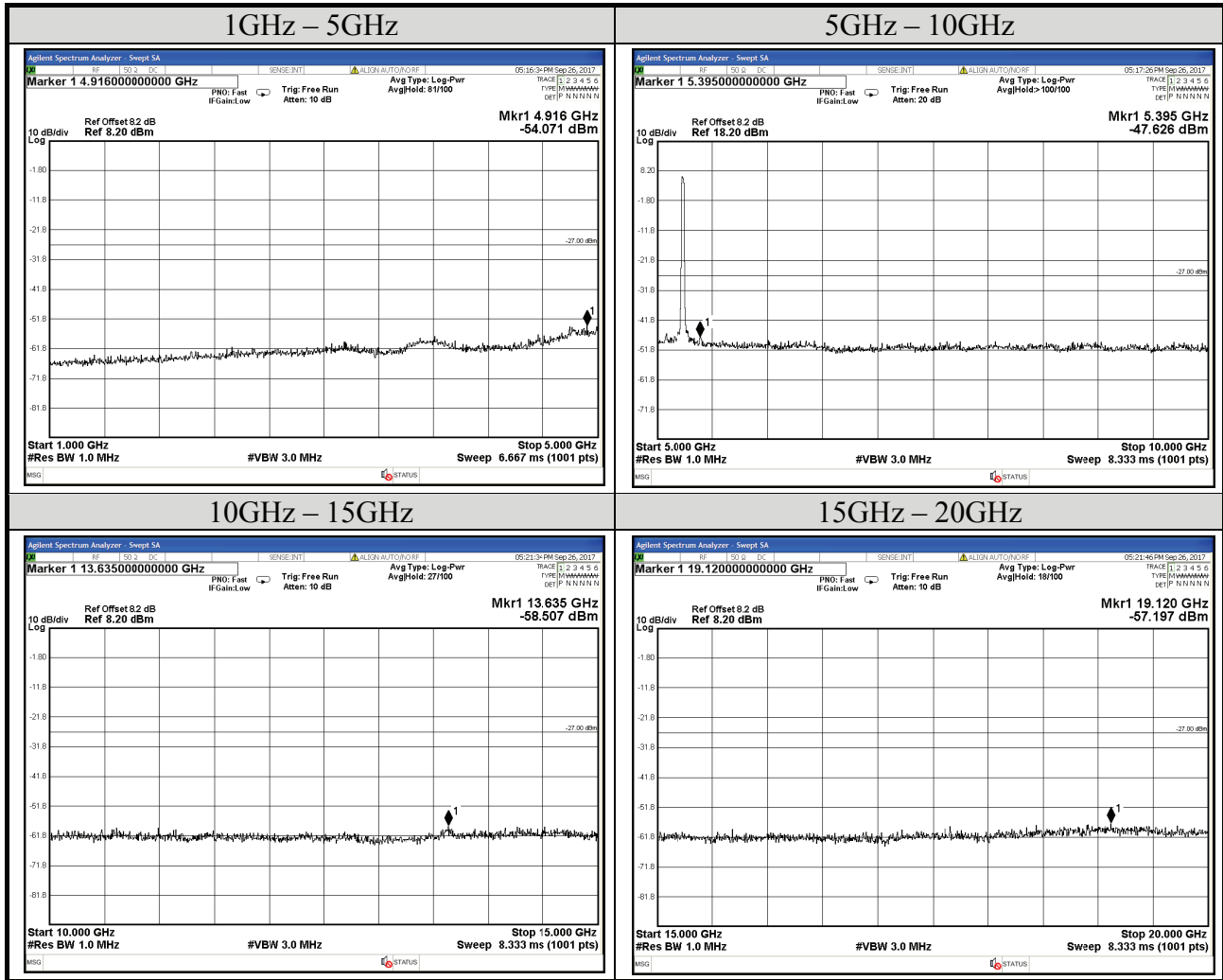


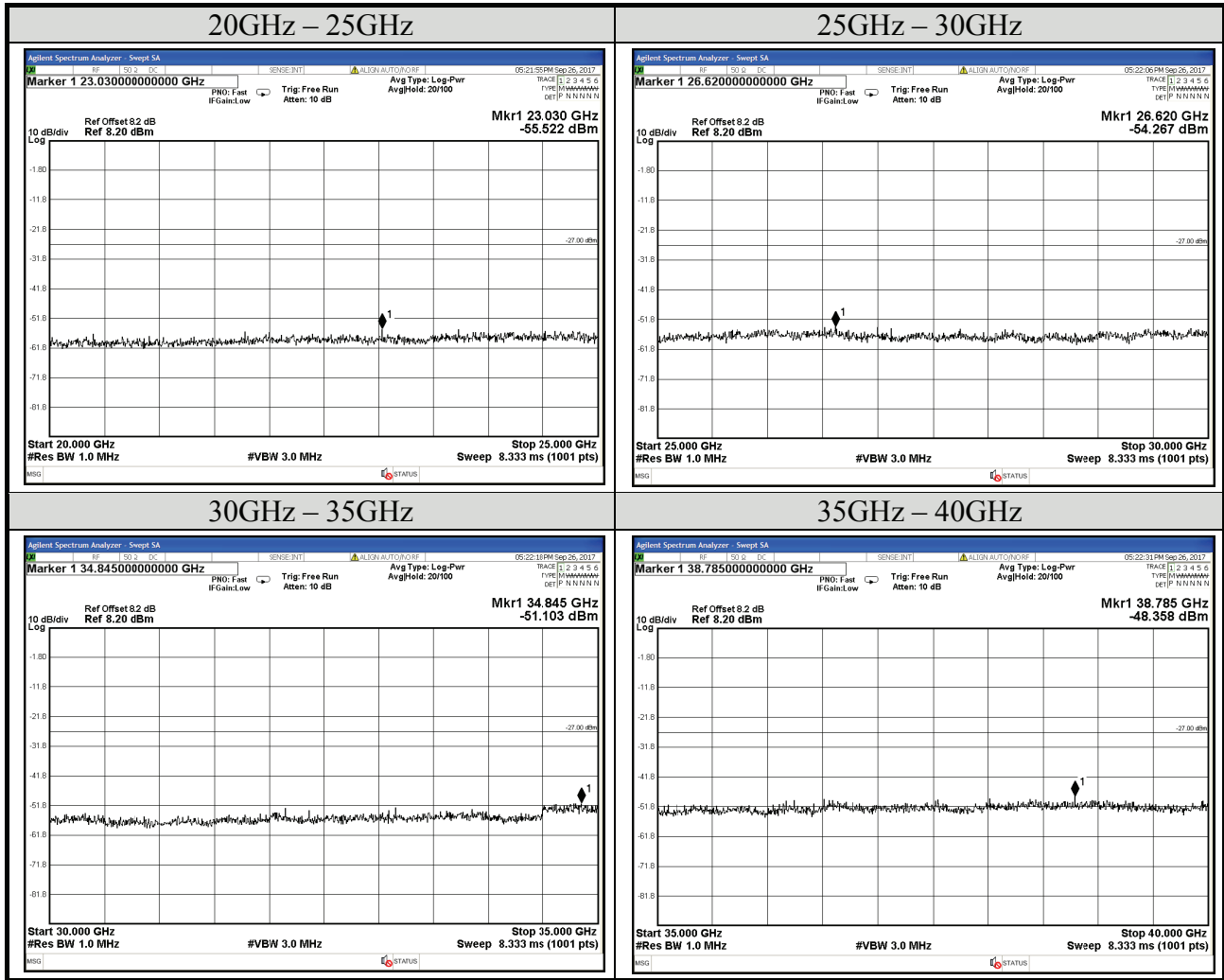
Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5200MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



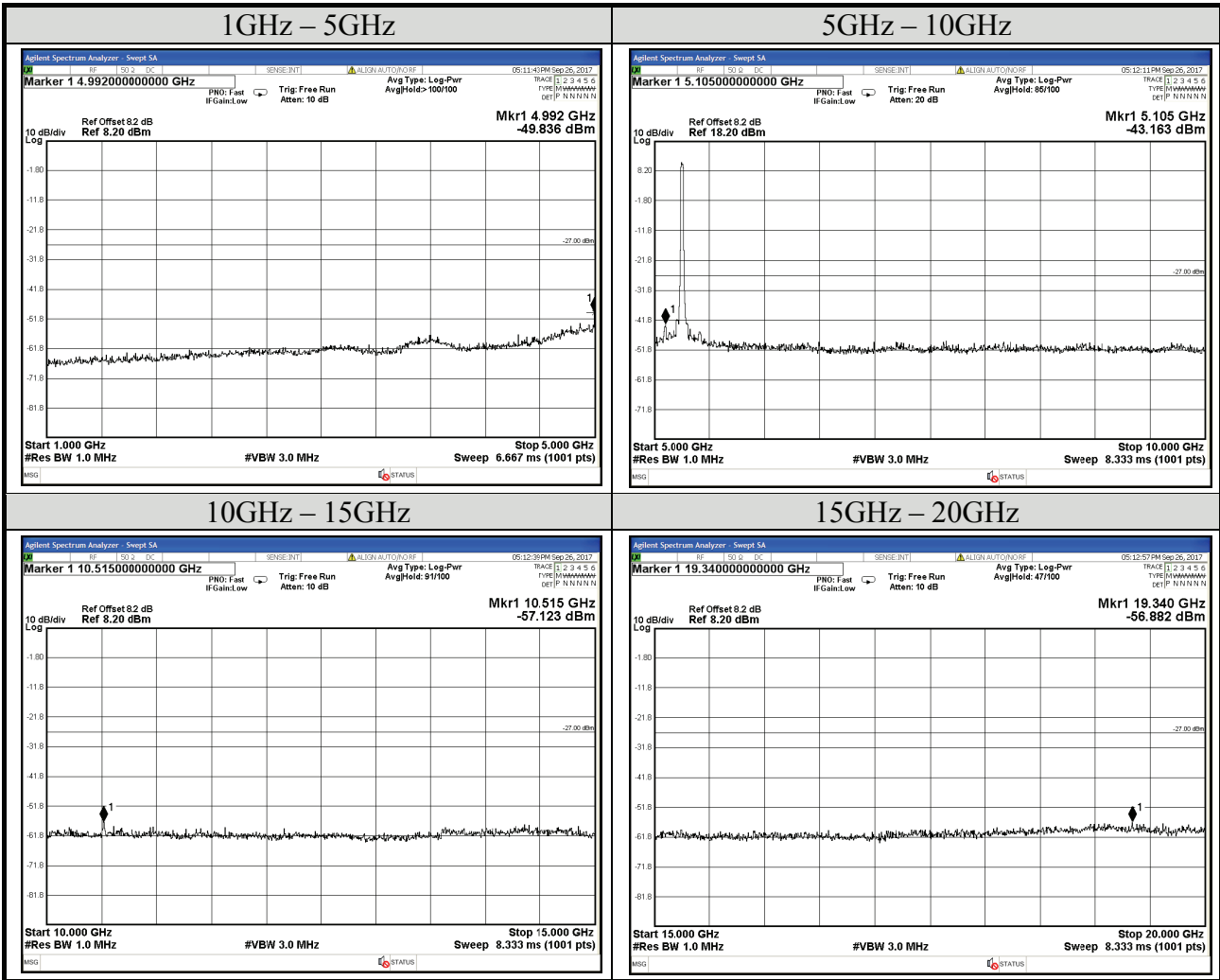


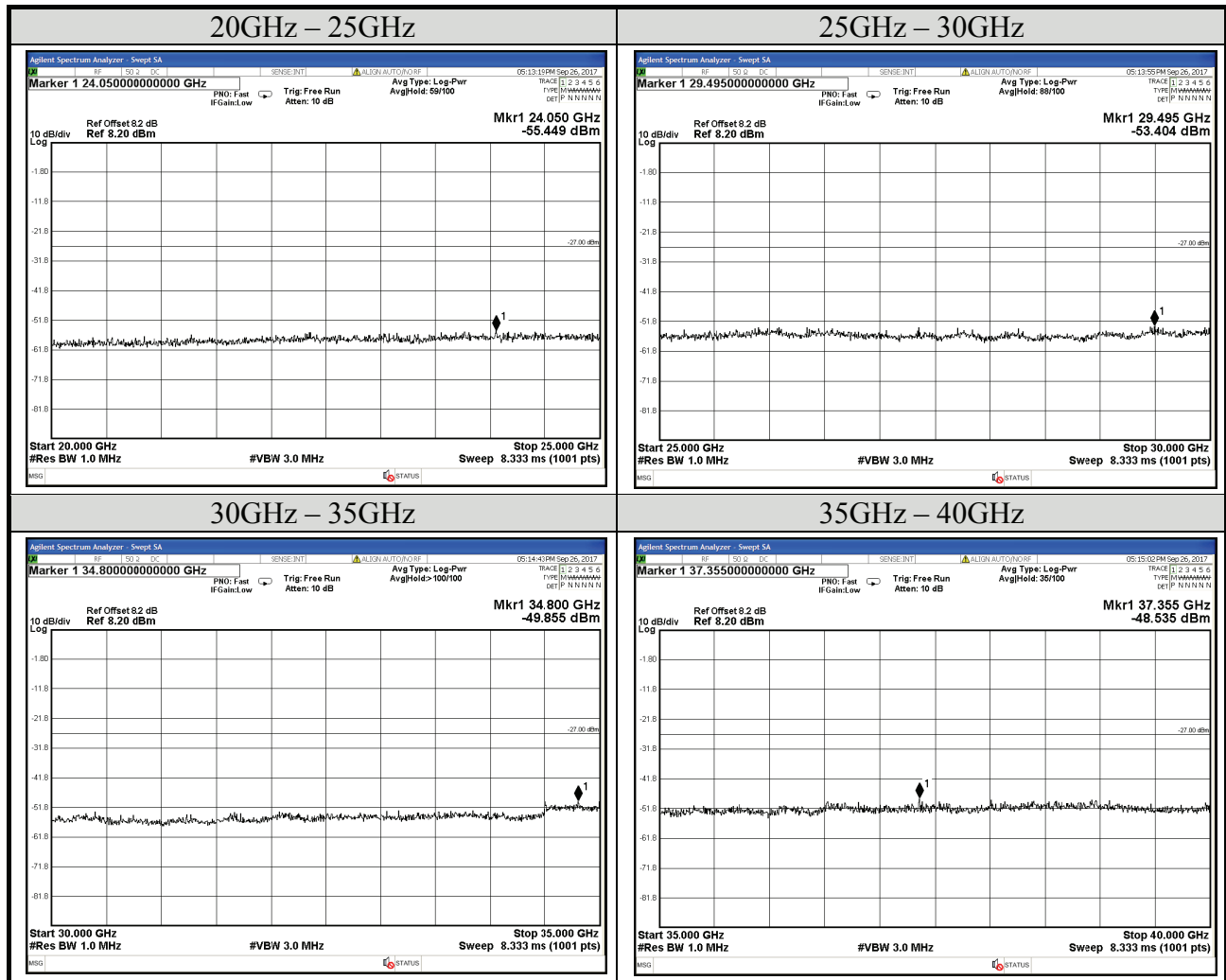
Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	I
		Frequency	TX 5240MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



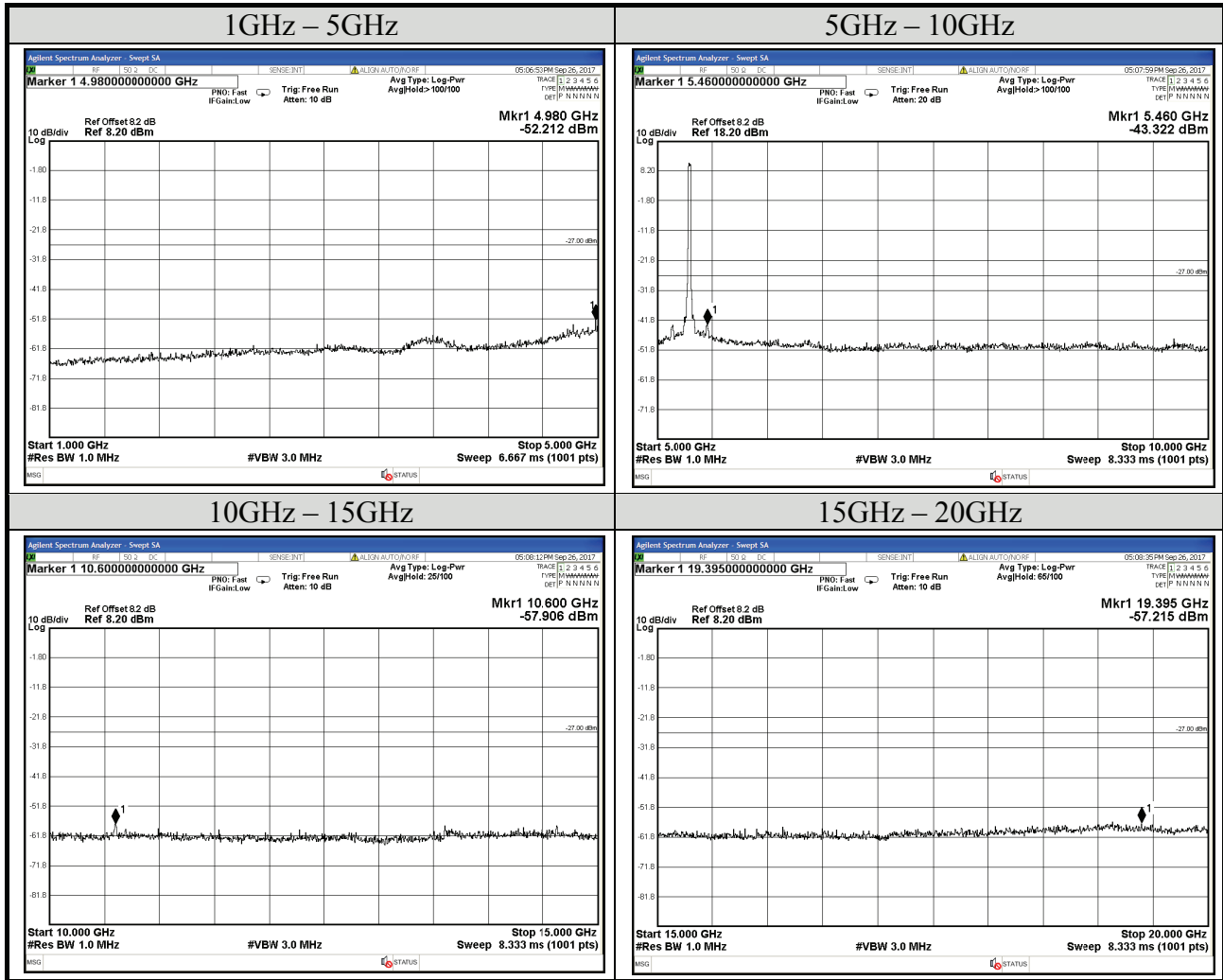


Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5260MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



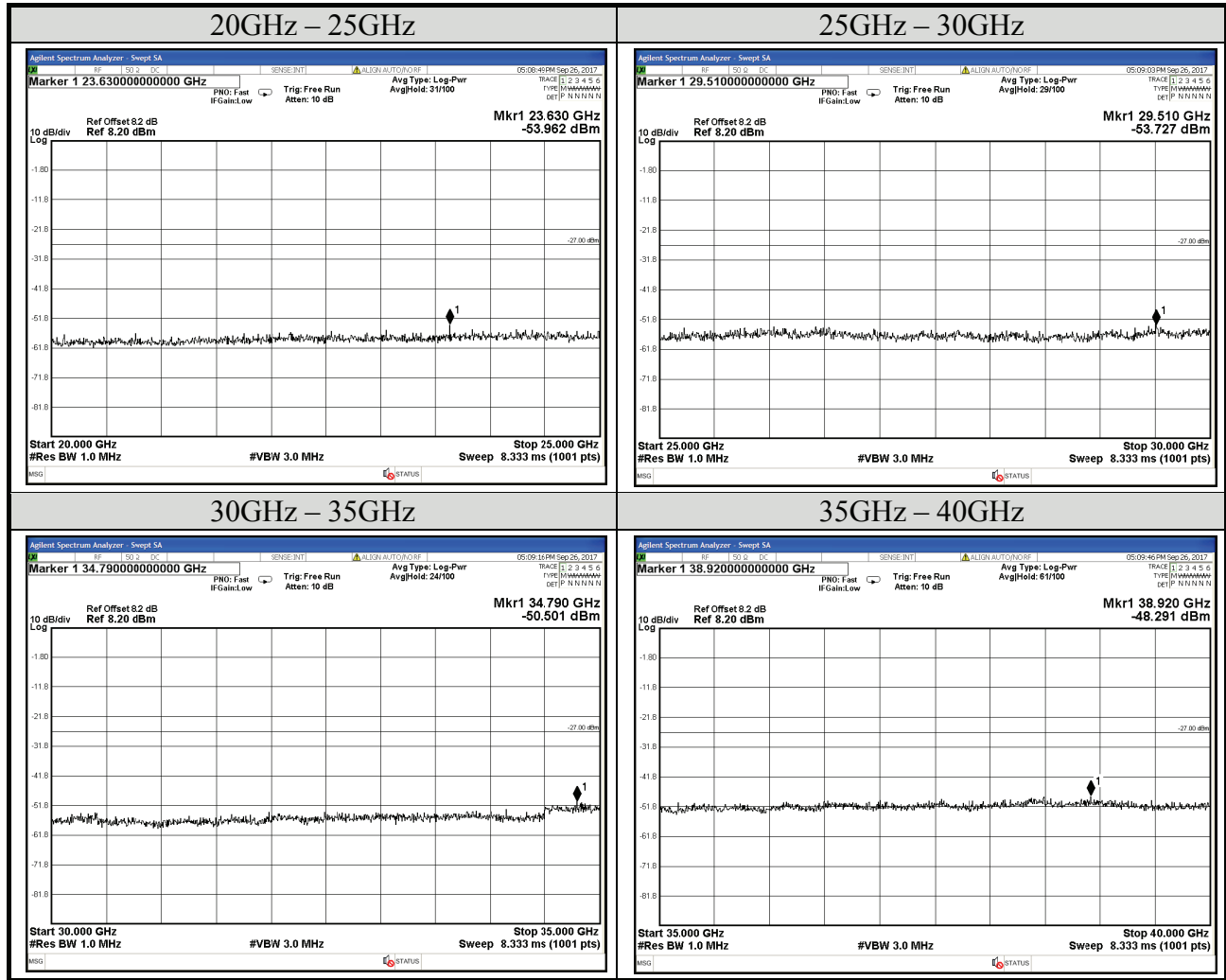


Test Date	2017/09/26	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	II-2A
		Frequency	TX 5300MHz
Cable Loss	4.2dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		3	



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

