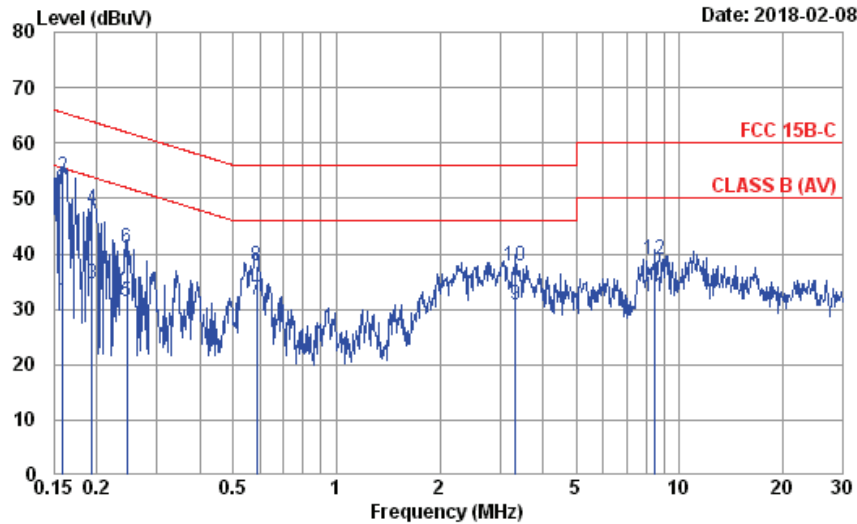


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## A.1 CONDUCTED EMISSION

Test Date	2018/02/08	Temp./Hum.	19°C/52%
Test Voltage	AC 120V 60Hz (Via Notebook PC's AC Adapter)		

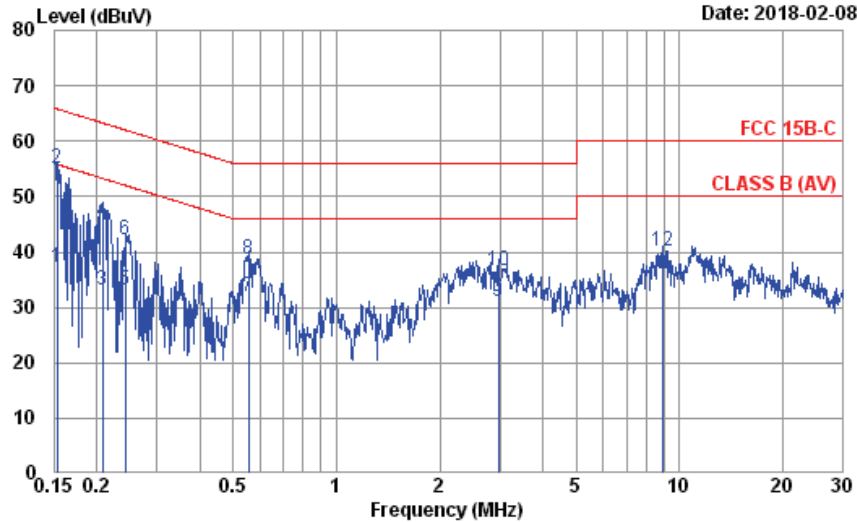


Site no. : No.8 Shielded Room      Data no. : 2  
 Condition : ENV4200 100169      LISN Phase : NEUTRAL  
 Limit : FCC 15B-C  
 Env. / Ins. : 19°C / 52% ESCI(1276)      Engineer : Nick Du  
 EUT : AN-WF500  
 Power Rating : 120Vac/60Hz  
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.159	10.56	0.03	9.86	11.04	31.49	55.52	24.03	Average
2	0.159	10.56	0.03	9.86	33.51	53.96	65.52	11.56	QP
3	0.193	10.53	0.03	9.86	14.20	34.62	53.89	19.27	Average
4	0.193	10.53	0.03	9.86	27.53	47.95	63.89	15.94	QP
5	0.246	10.49	0.03	9.86	10.84	31.22	51.91	20.69	Average
6	0.246	10.49	0.03	9.86	20.56	40.94	61.91	20.97	QP
7	0.585	10.43	0.05	9.86	11.32	31.66	46.00	14.34	Average
8	0.585	10.43	0.05	9.86	17.47	37.81	56.00	18.19	QP
9	3.328	10.56	0.10	9.86	10.22	30.74	46.00	15.26	Average
10	3.328	10.56	0.10	9.86	17.22	37.74	56.00	18.26	QP
11	8.501	11.17	0.18	9.89	11.10	32.34	50.00	17.66	Average
12	8.501	11.17	0.18	9.89	17.75	38.99	60.00	21.01	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

Test Date	2018/02/08	Temp./Hum.	19°C/52%
Test Voltage	AC 120V 60Hz (Via Notebook PC's AC Adapter)		



Site no. : No.8 Shielded Room      Data no. : 1  
 Condition : ENV4200 100169      LISN Phase : LINE  
 Limit : FCC 15B-C  
 Env. / Ins. : 19°C / 52% ESCI(1276)      Engineer : Nick Du  
 EUT : AN-WF500  
 Power Rating : 120Vac/60Hz  
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	10.62	0.03	9.86	16.77	37.28	55.82	18.54	Average
2	0.153	10.62	0.03	9.86	34.46	54.97	65.82	10.85	QP
3	0.208	10.55	0.03	9.86	12.53	32.97	53.27	20.30	Average
4	0.208	10.55	0.03	9.86	25.05	45.49	63.27	17.78	QP
5	0.242	10.53	0.03	9.86	12.60	33.02	52.04	19.02	Average
6	0.242	10.53	0.03	9.86	21.74	42.16	62.04	19.88	QP
7	0.555	10.45	0.05	9.86	11.63	31.99	46.00	14.01	Average
8	0.555	10.45	0.05	9.86	18.18	38.54	56.00	17.46	QP
9	2.962	10.54	0.10	9.86	10.64	31.14	46.00	14.86	Average
10	2.962	10.54	0.10	9.86	16.13	36.63	56.00	19.37	QP
11	8.916	11.21	0.18	9.89	13.06	34.34	50.00	15.66	Average
12	8.916	11.21	0.18	9.89	18.83	40.11	60.00	19.89	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

## A.2 RADIATED EMISSION

Test Date	2018/02/08	Temp./Hum.	24°C/53%
Test Voltage	DC 5V (Powered by Notebook PC)		

### A.2.1 Emissions within Restricted Frequency Bands

#### A.2.1.1 Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

#### A.2.1.2 Frequency Below 1 GHz

Mode	802.11n-HT420	UNII Band	III
		Frequency	TX 5745MHz

#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
69.77	12.77	1.88	4.78	19.43	40.00	20.57	Peak
144.46	17.47	2.77	11.59	31.83	43.50	11.67	Peak
288.02	19.41	4.19	14.56	38.16	46.00	7.84	Peak
396.66	21.98	5.51	11.81	39.30	46.00	6.70	Peak
731.31	25.23	7.26	2.24	34.73	46.00	11.27	Peak
960.23	27.42	8.57	5.05	41.04	54.00	12.96	Peak

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
69.77	12.77	1.88	13.76	28.41	40.00	11.59	Peak
138.64	17.87	2.71	10.83	31.41	43.50	12.09	Peak
288.02	19.41	4.19	8.99	32.59	46.00	13.41	Peak
401.51	22.09	5.57	11.71	39.37	46.00	6.63	Peak
930.16	27.12	8.37	2.44	37.93	46.00	8.07	Peak
966.05	27.49	8.61	1.21	37.31	54.00	16.69	Peak

### A.2.2 Emissions outside the frequency band

The emissions (up to 40GHz) not reported for there is no emission be found.

Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz

#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	1.82	56.58	74.00	17.42	Peak
11570.00	38.56	16.20	-10.92	43.84	54.00	10.16	Average

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	2.00	56.76	74.00	17.24	Peak
11570.00	38.56	16.20	-10.74	44.02	54.00	9.98	Average

Mode	802.11n-HT20	UNII Band	III
		Frequency	TX 5745MHz

#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11490.00	38.48	16.13	2.10	56.71	74.00	17.29	Peak
11490.00	38.48	16.13	-9.12	45.49	54.00	8.51	Average

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11480.00	38.45	16.11	4.60	59.16	74.00	14.84	Peak
11480.00	38.45	16.11	-6.62	47.94	54.00	6.06	Average

Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5785MHz

#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	1.49	56.25	74.00	17.75	Peak
11570.00	38.56	16.20	-10.35	44.41	54.00	9.59	Average

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
11570.00	38.56	16.20	3.37	58.13	74.00	15.87	Peak
11570.00	38.56	16.20	-8.47	46.29	54.00	7.71	Average

### A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to KDB 789033 D02 General UNII Test Procedures New Rules v01r04 that emission levels below the 15.209 general radiated emissions limits is not required.

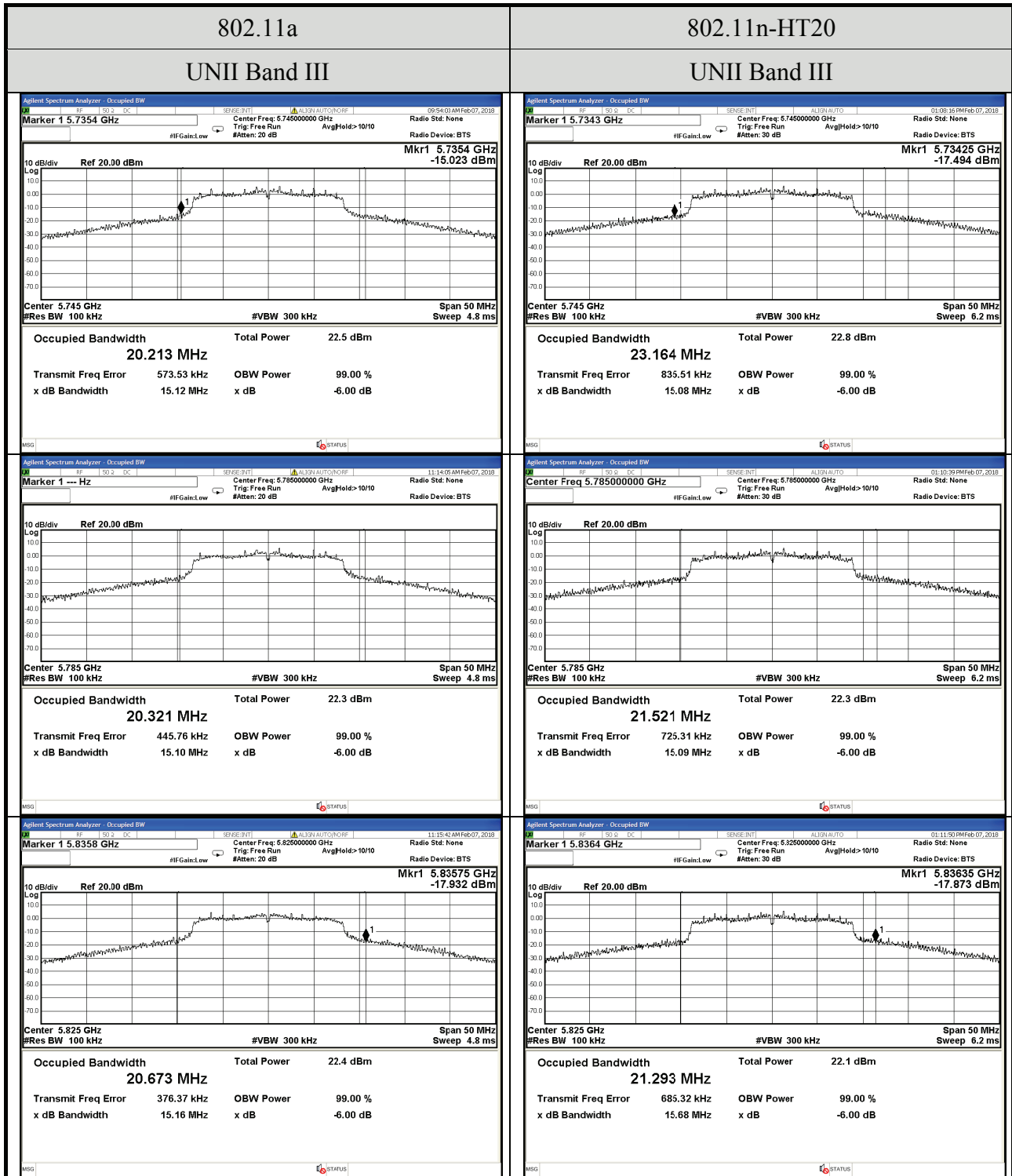
### A.3 EMISSION BANDWIDTH

Test Date	2018/02/07	Temp./Hum.	15°C/56%
Cable Loss	---	Test Voltage	DC 5V (Powered by Notebook PC)

#### A.3.1 Emission Bandwidth Result

Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	III	5745	15.12	20.213	≥ 500kHz
		5785	15.10	20.321	
		5825	15.16	20.673	
802.11n-HT20	III	5745	15.08	23.164	
		5785	15.09	25.521	
		5825	15.68	21.293	
802.11n-HT40	III	5755	35.15	41.007	
		5795	35.22	46.609	

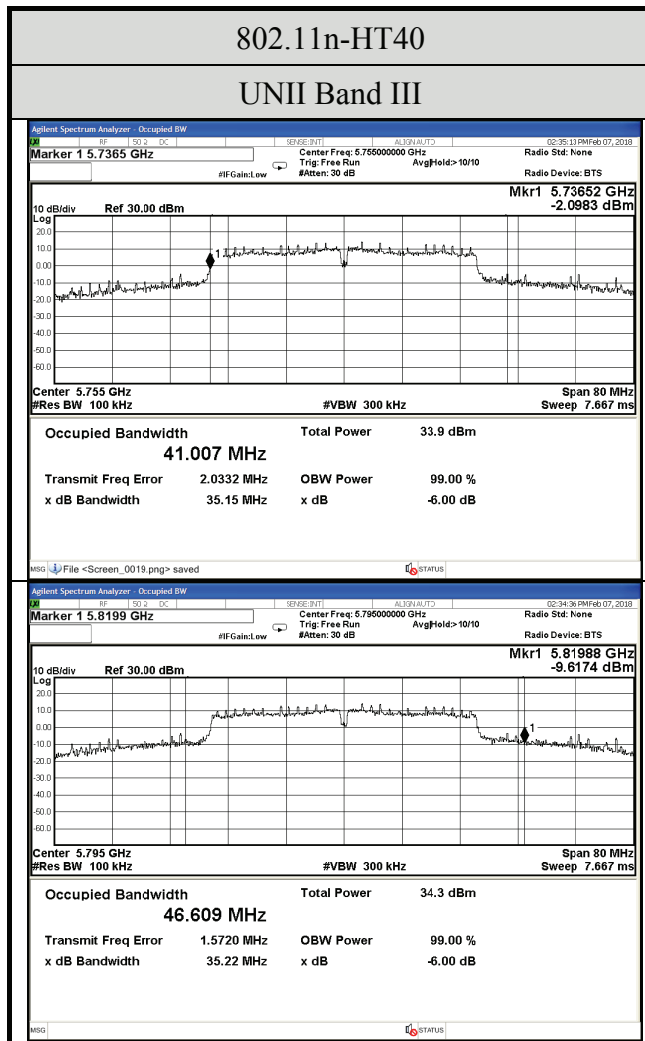
A.3.2 Measurement Plots





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## A.4 MAXIMUM OUTPUT POWER

Test Date	2018/02/07	Temp./Hum.	15°C/56%
Cable Loss	---	Test Voltage	DC 5V (Powered by Notebook PC)

### A.4.1 Average Output Power

Mode	UNII Band	Centre Frequency	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
		(MHz)	ANT#0	ANT#1		(dBm)	(W)	
802.11a	III	5745	10.73	9.95	0.24	13.61	0.0229	< 1 W (30 dBm)
		5785	14.51	14.17		17.59	0.0575	
		5825	13.64	13.22		16.69	0.0466	

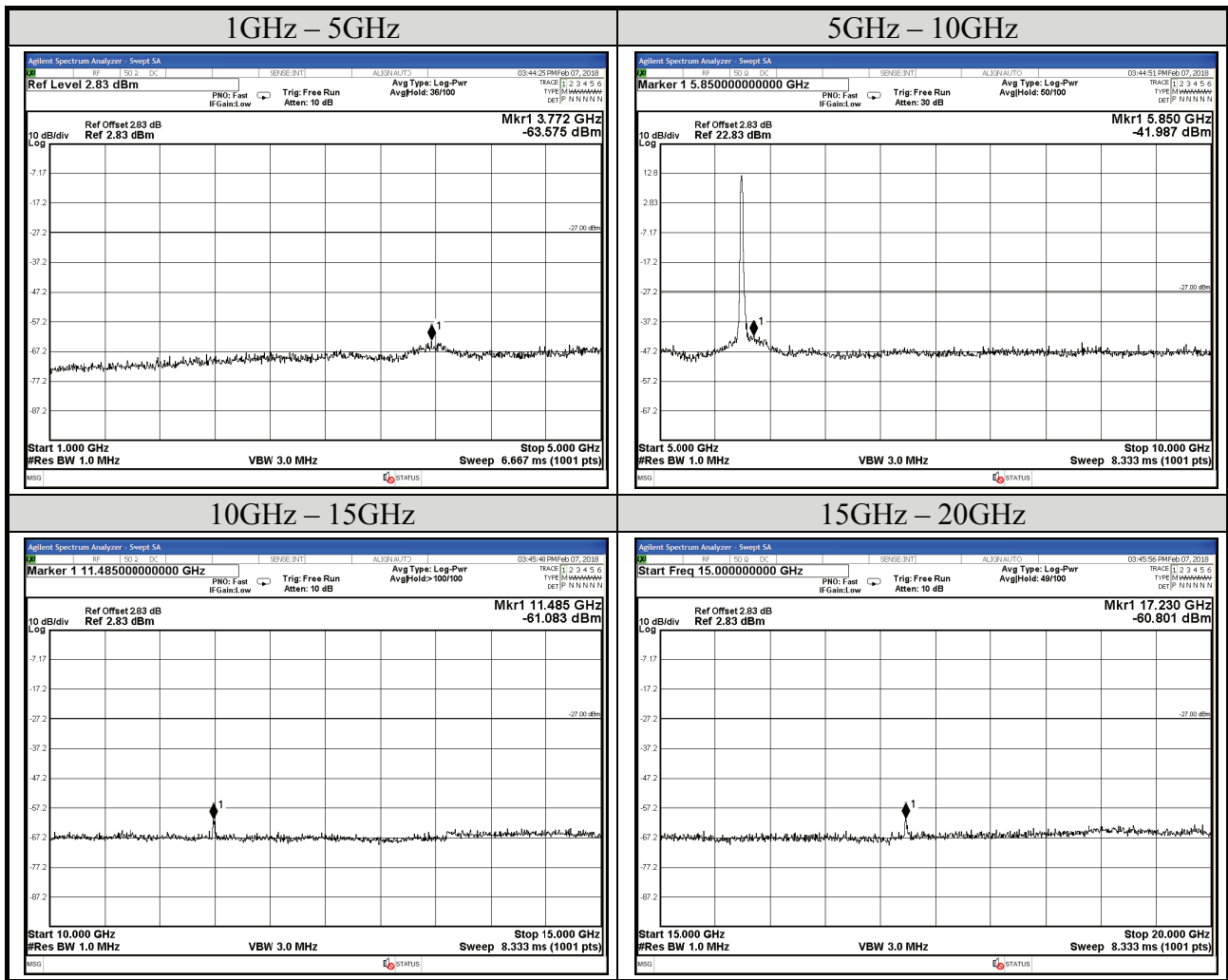
Mode	UNII Band	Centre Frequency	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
		(MHz)	ANT#0	ANT#1		(dBm)	(W)	
802.11n -HT20	III	5745	15.62	15.92	0.56	19.34	0.0860	< 1 W (30 dBm)
		5785	15.54	15.81		19.25	0.0841	
		5825	15.52	15.74		19.20	0.0832	

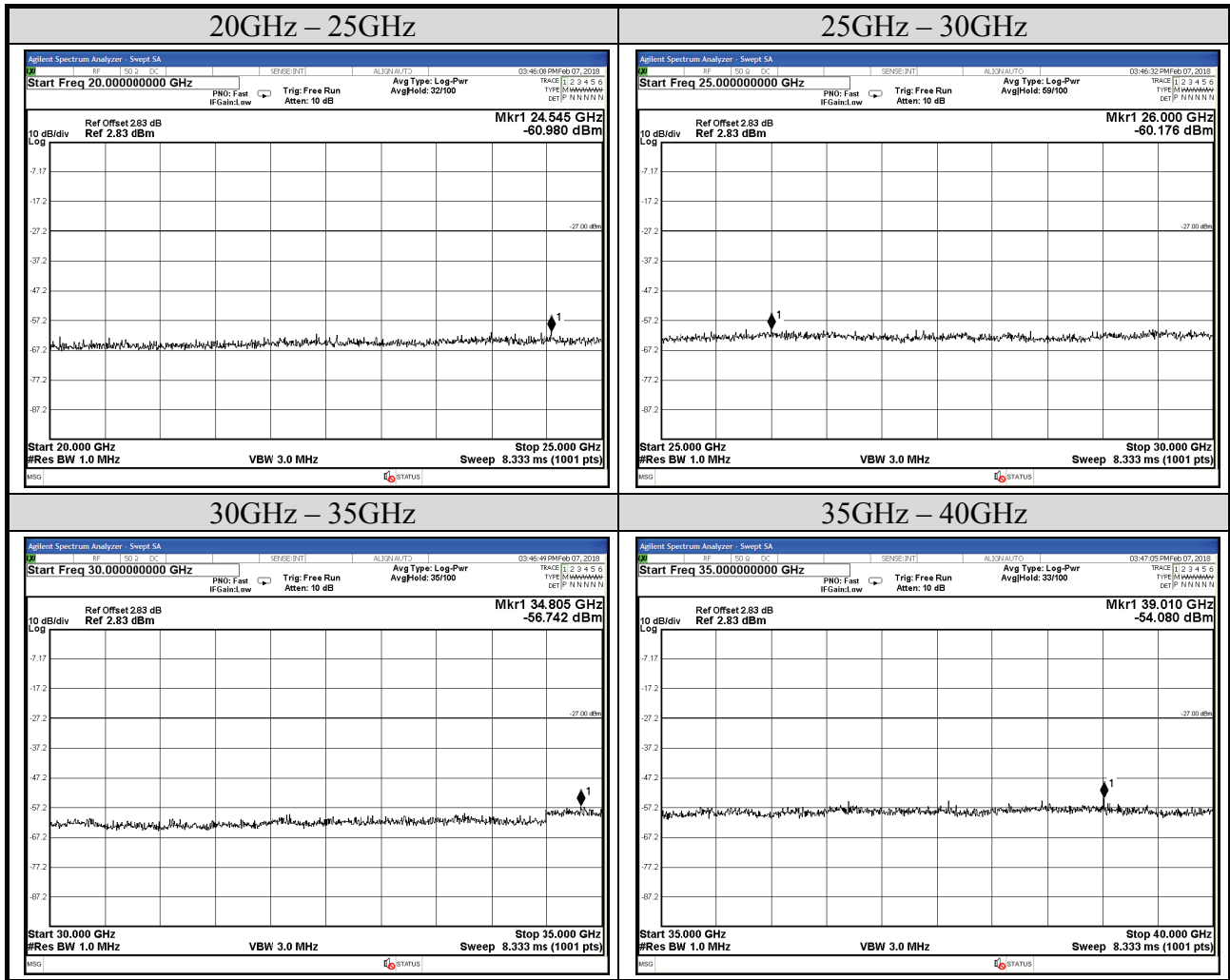
Mode	UNII Band	Centre Frequency	Average Output Power (dBm)		10log (1/X)	Total Average Output Power		Limit
		(MHz)	ANT#0	ANT#1		(dBm)	(W)	
802.11n -HT40	III	5755	14.02	14.51	0.98	18.26	0.0670	< 1 W (30 dBm)
		5795	13.06	13.54		17.30	0.0537	

Note: The results have been included cable loss.

## A.5 EMISSION LIMITATIONS MEASUREMENT

Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5745MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

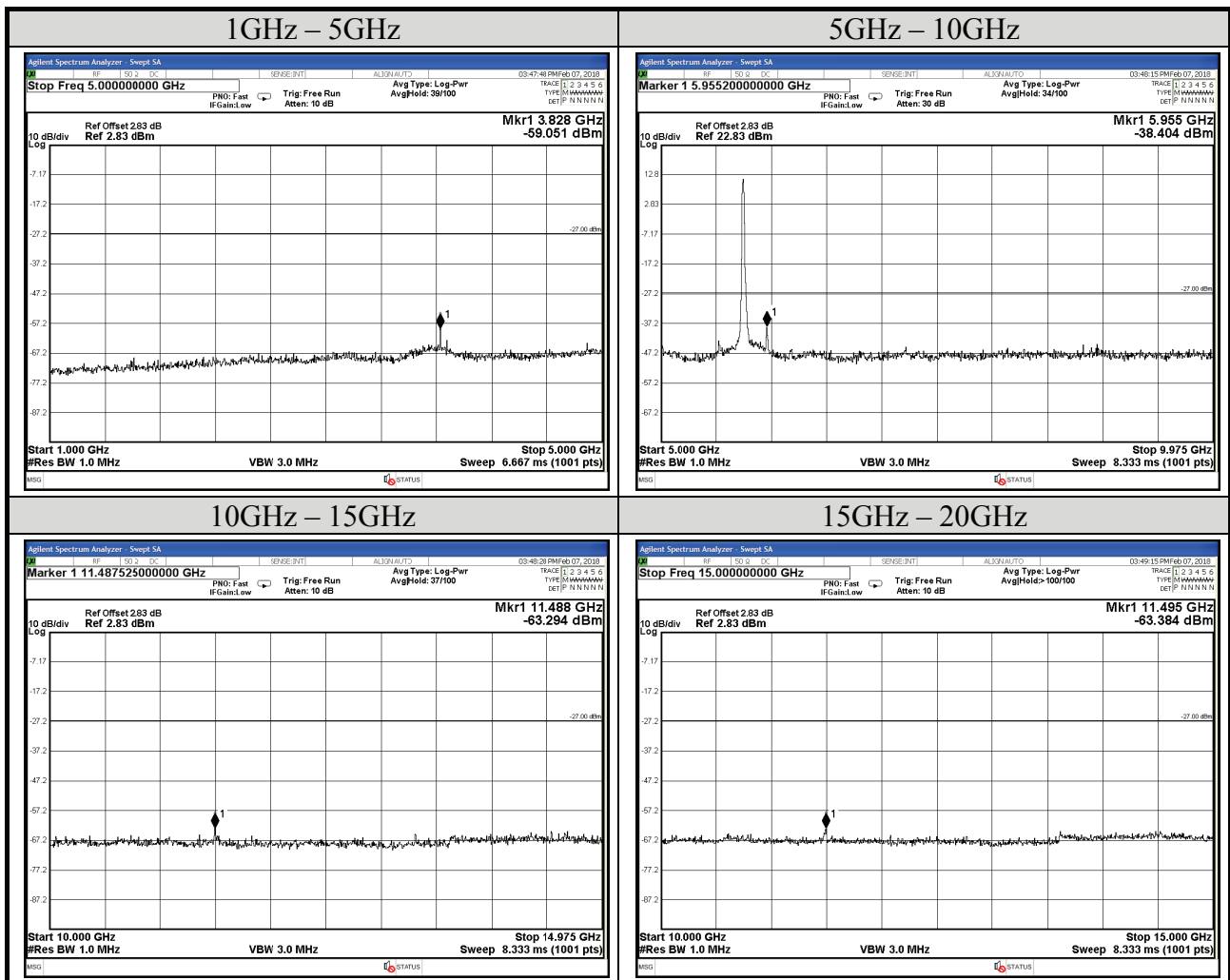


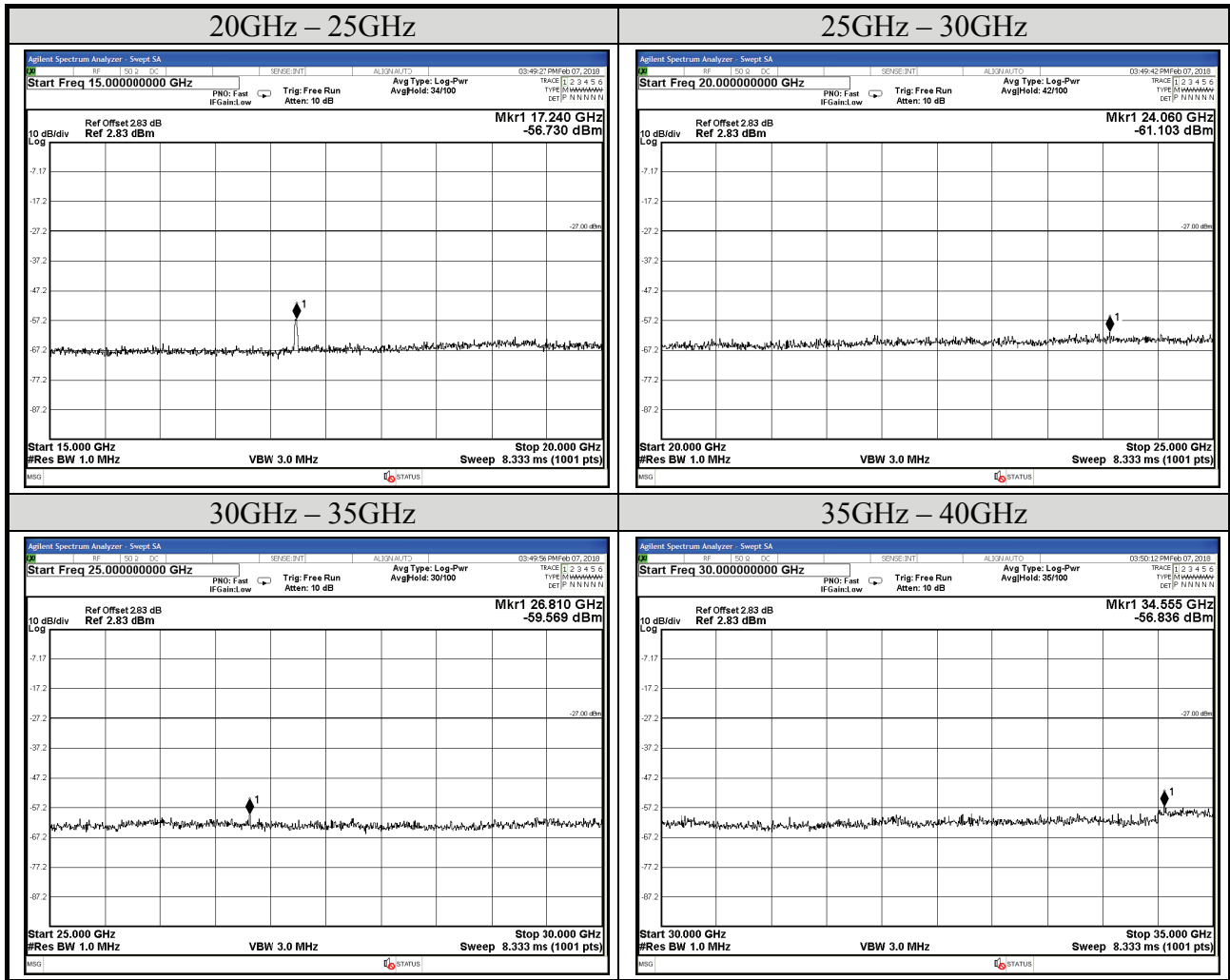


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5745MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3

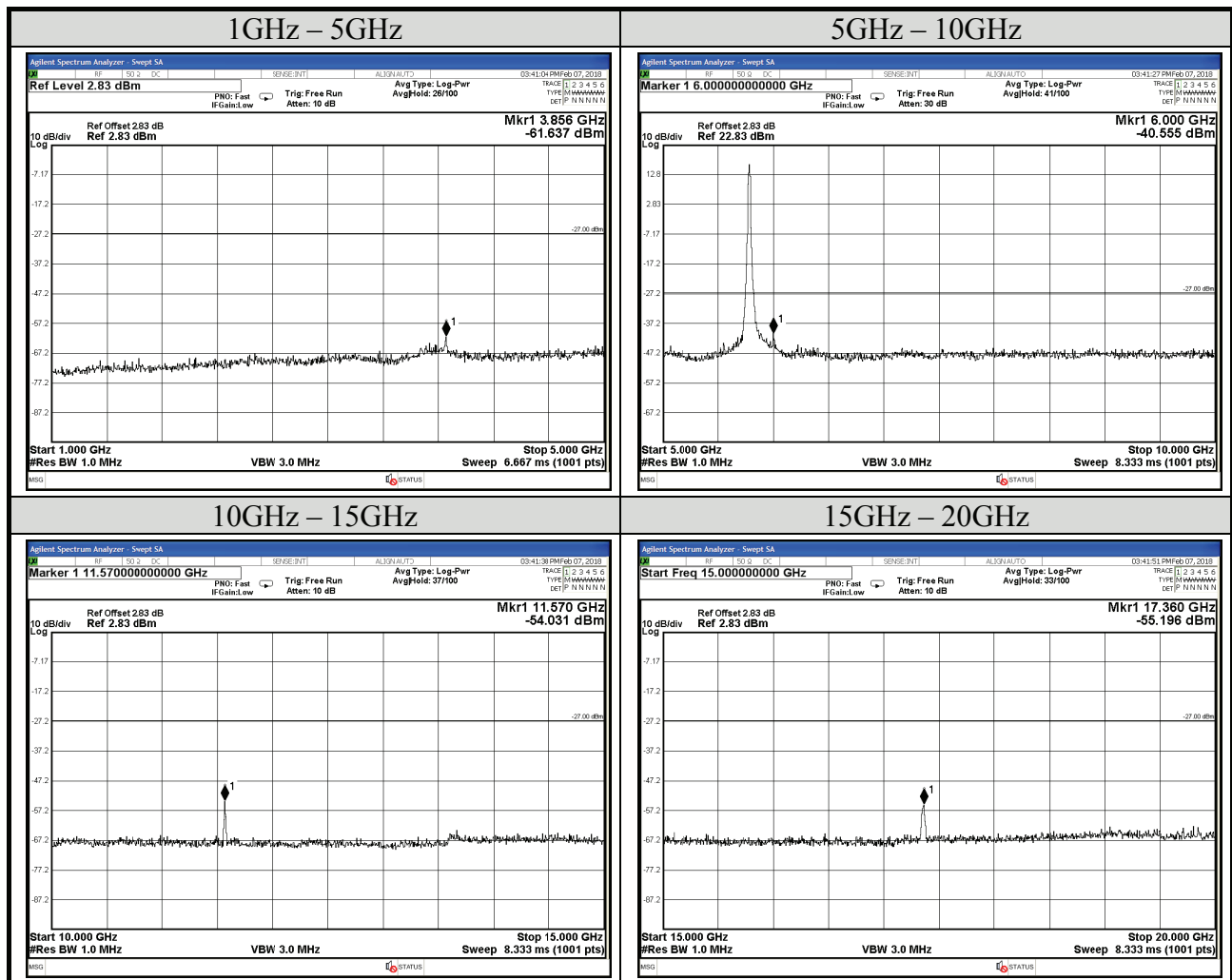


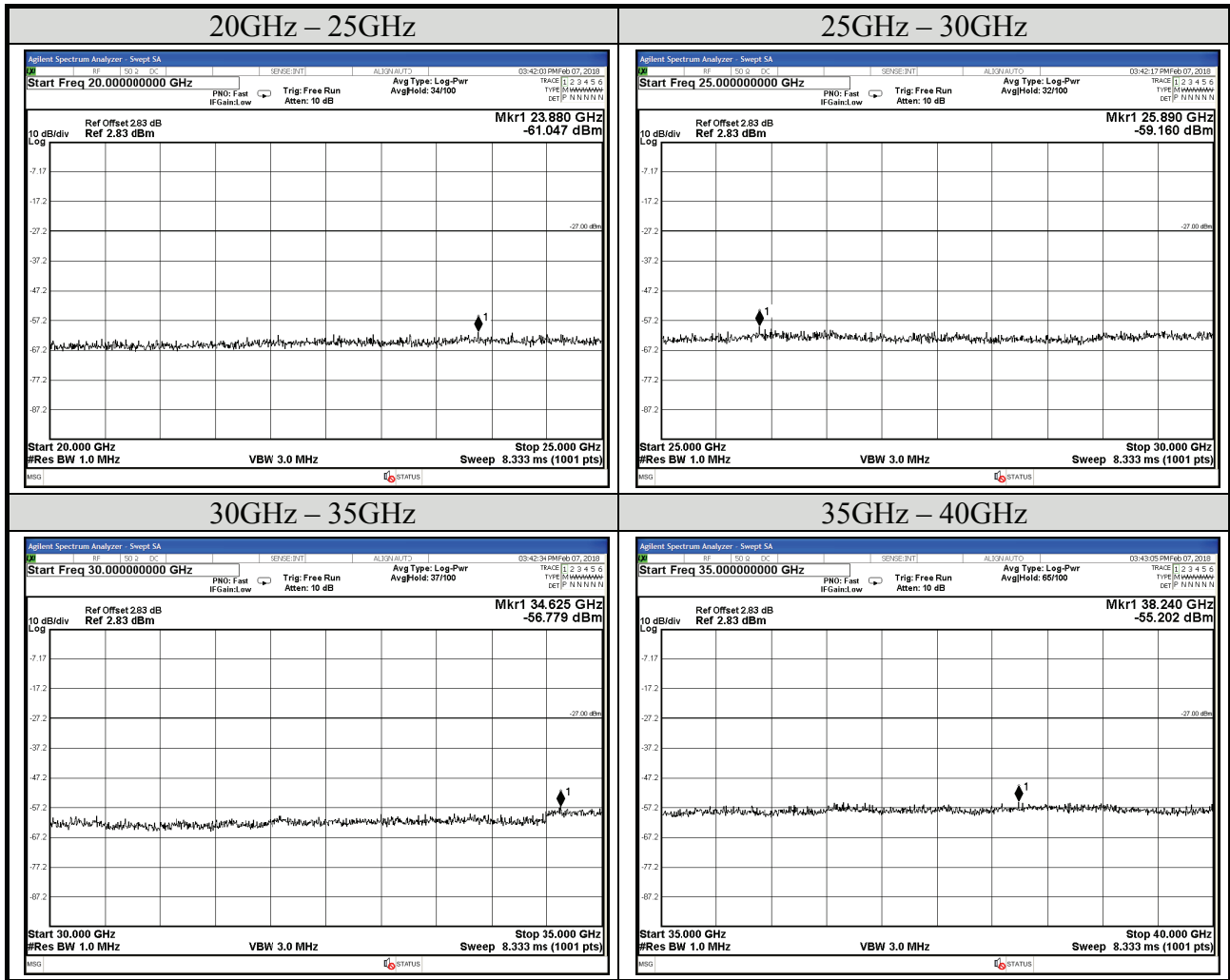


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5785MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3



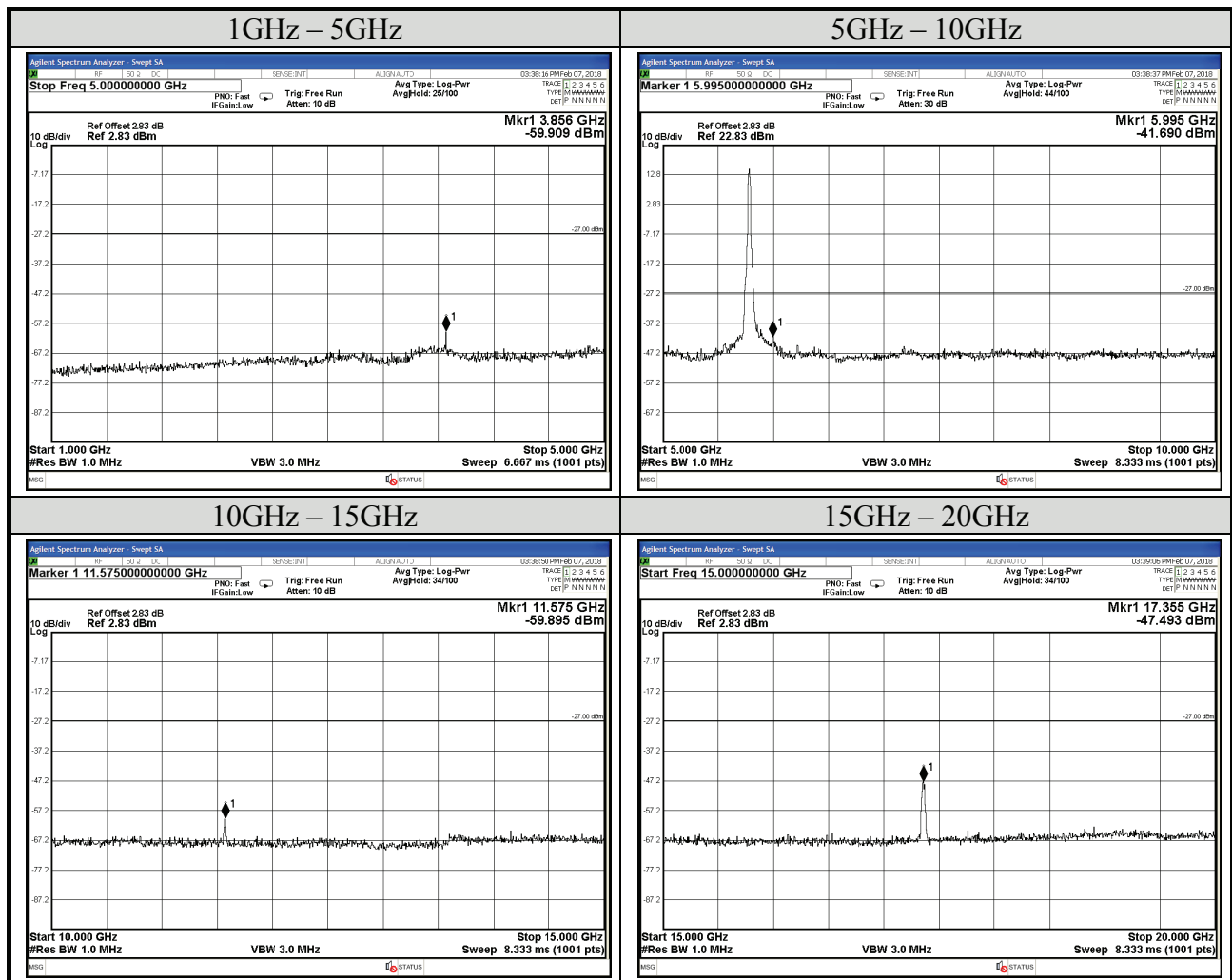


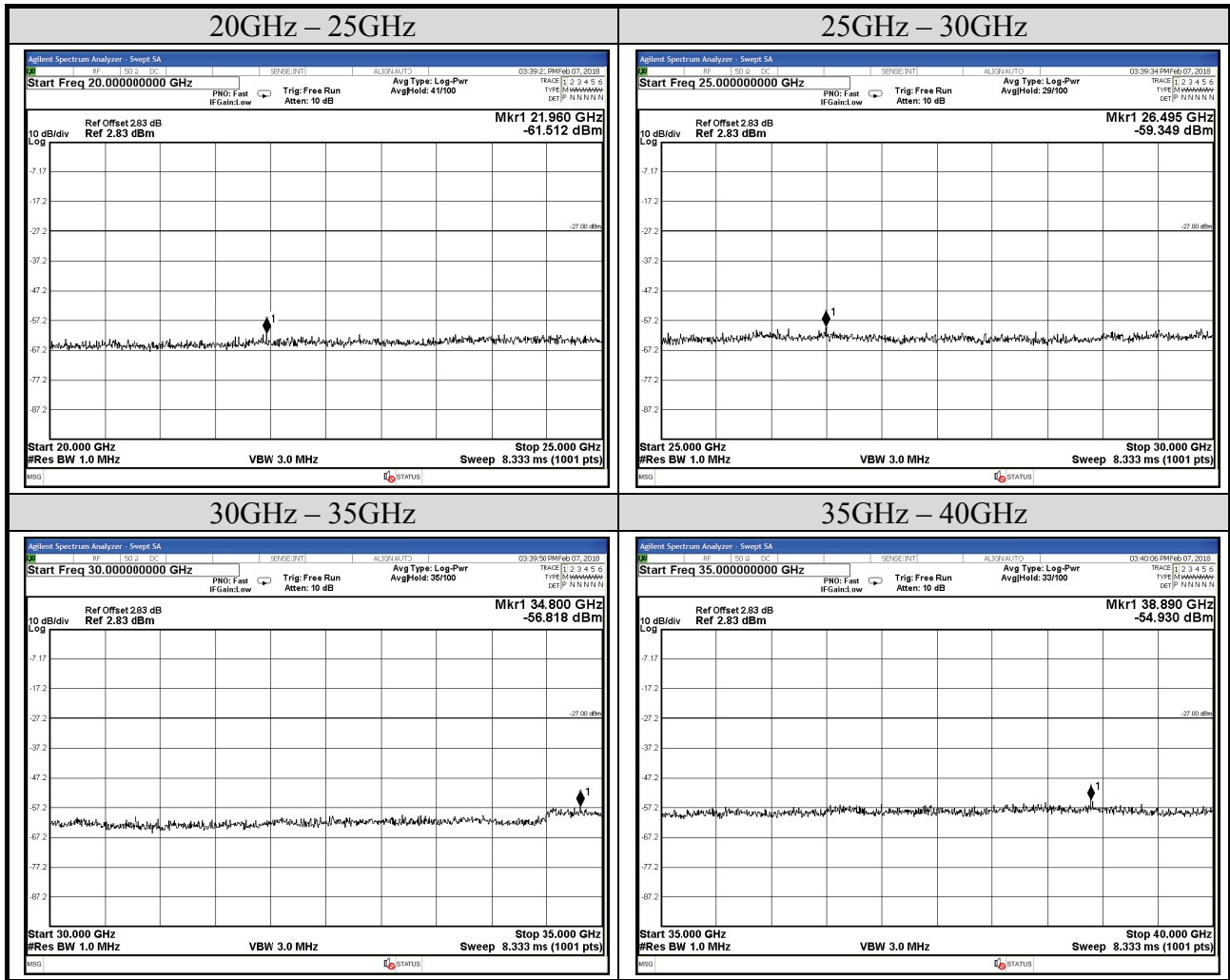


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5785MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

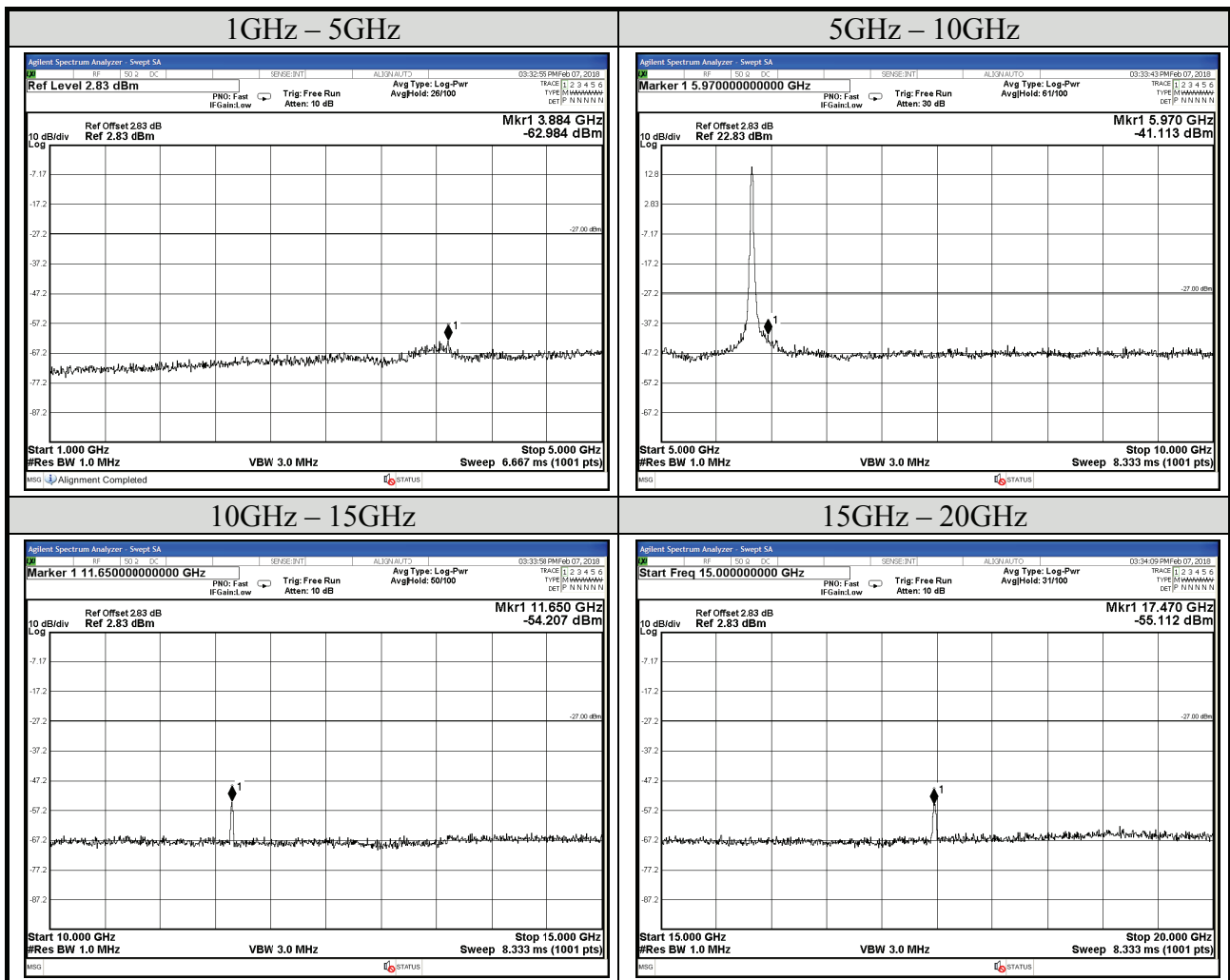


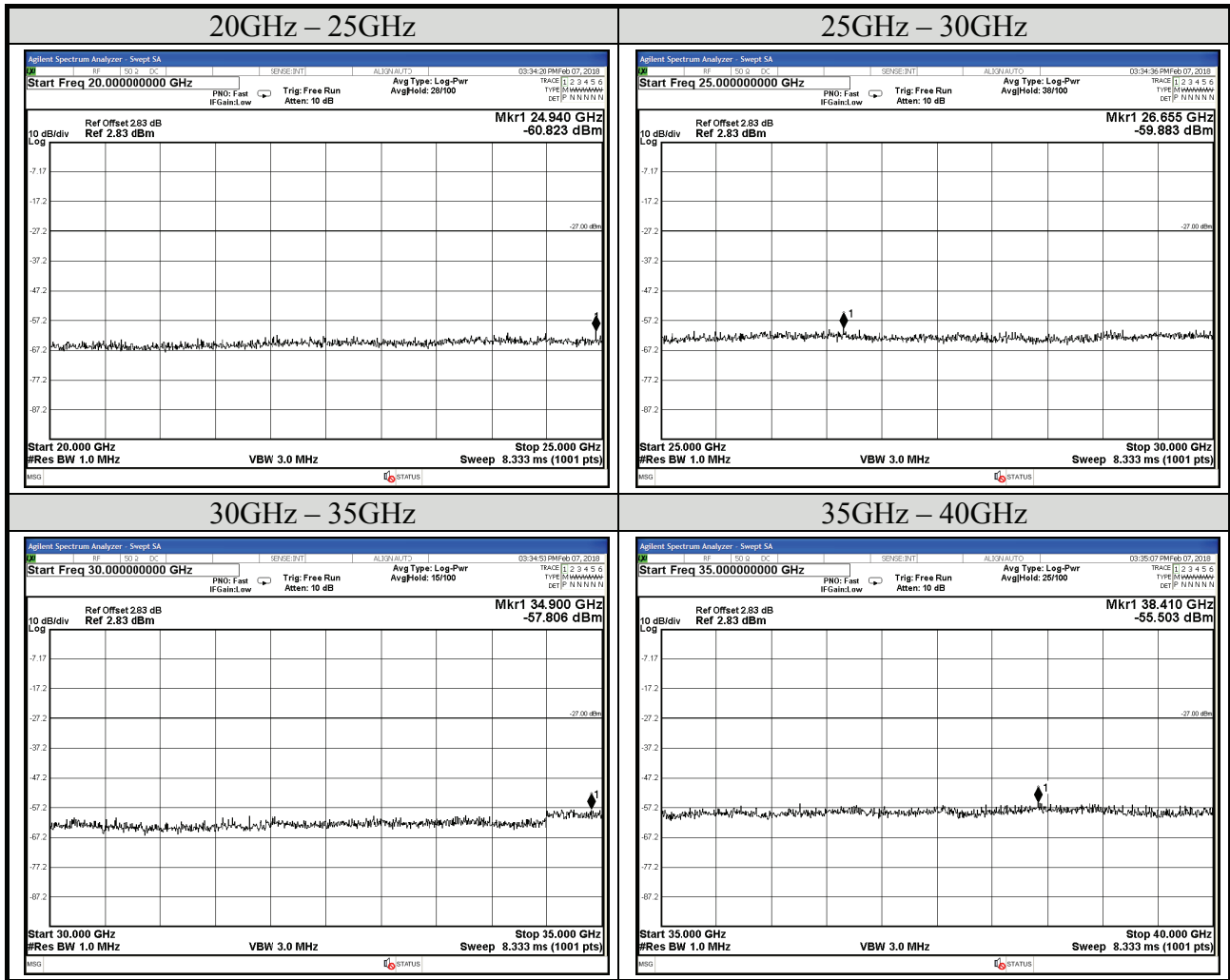


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5825MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

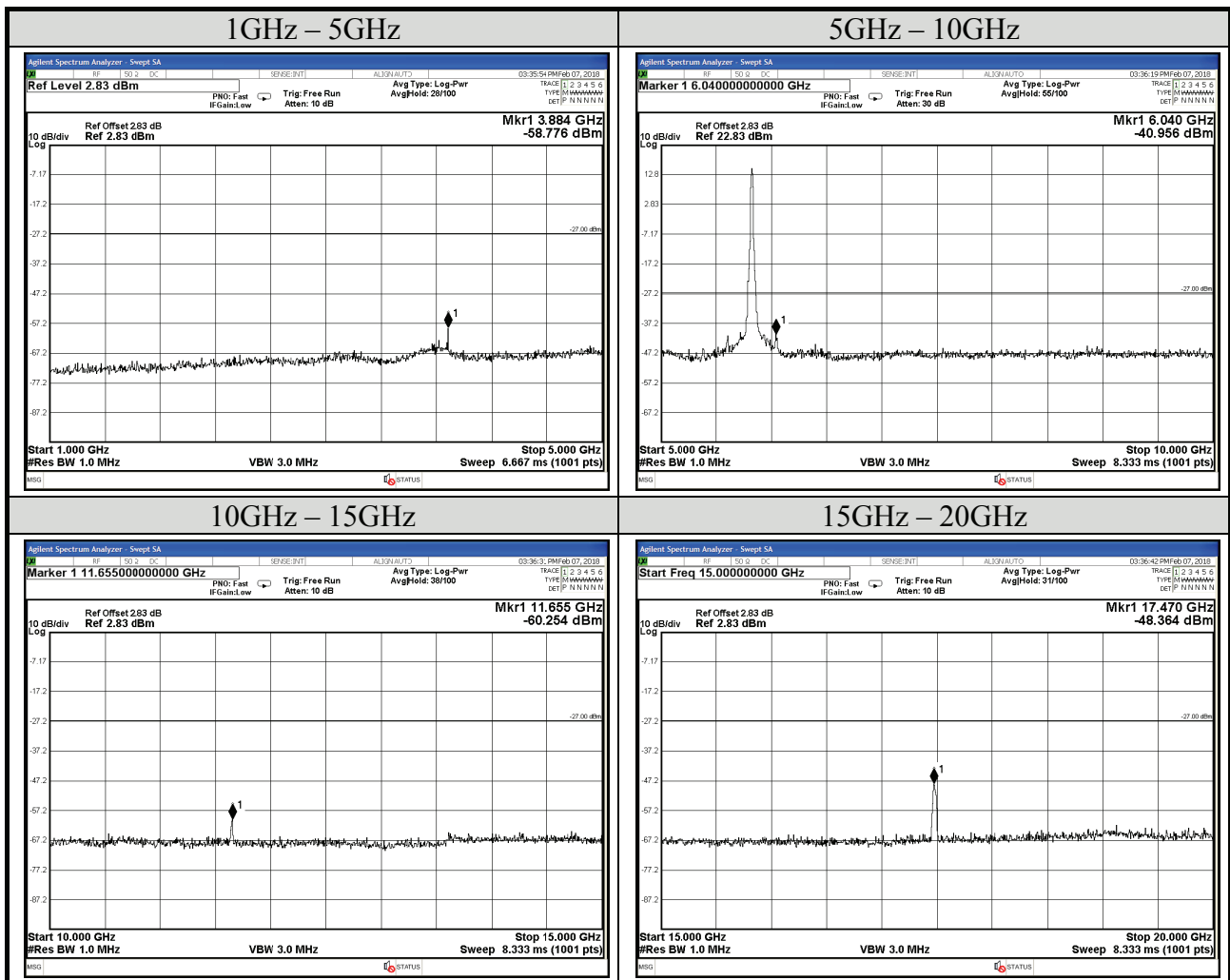


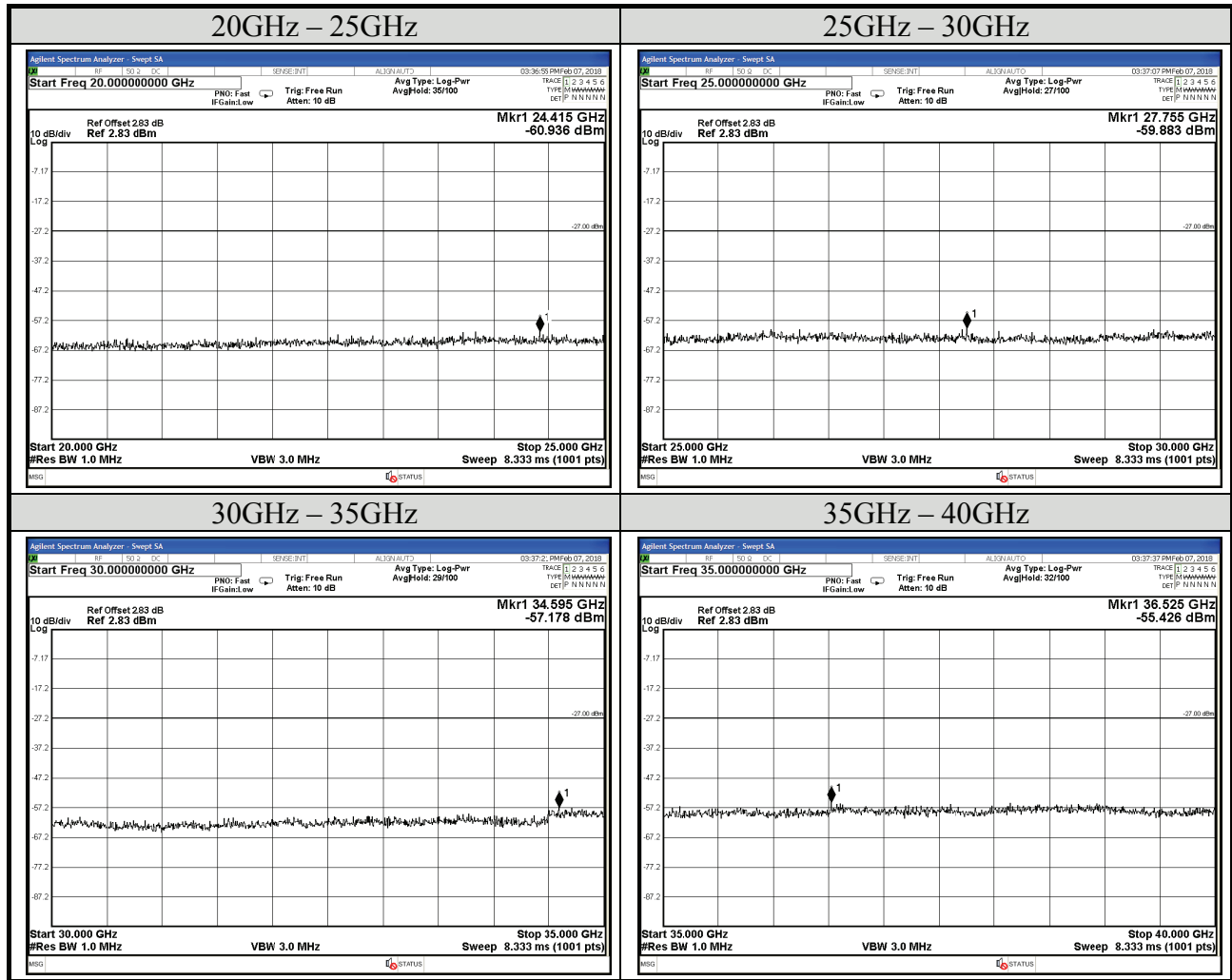


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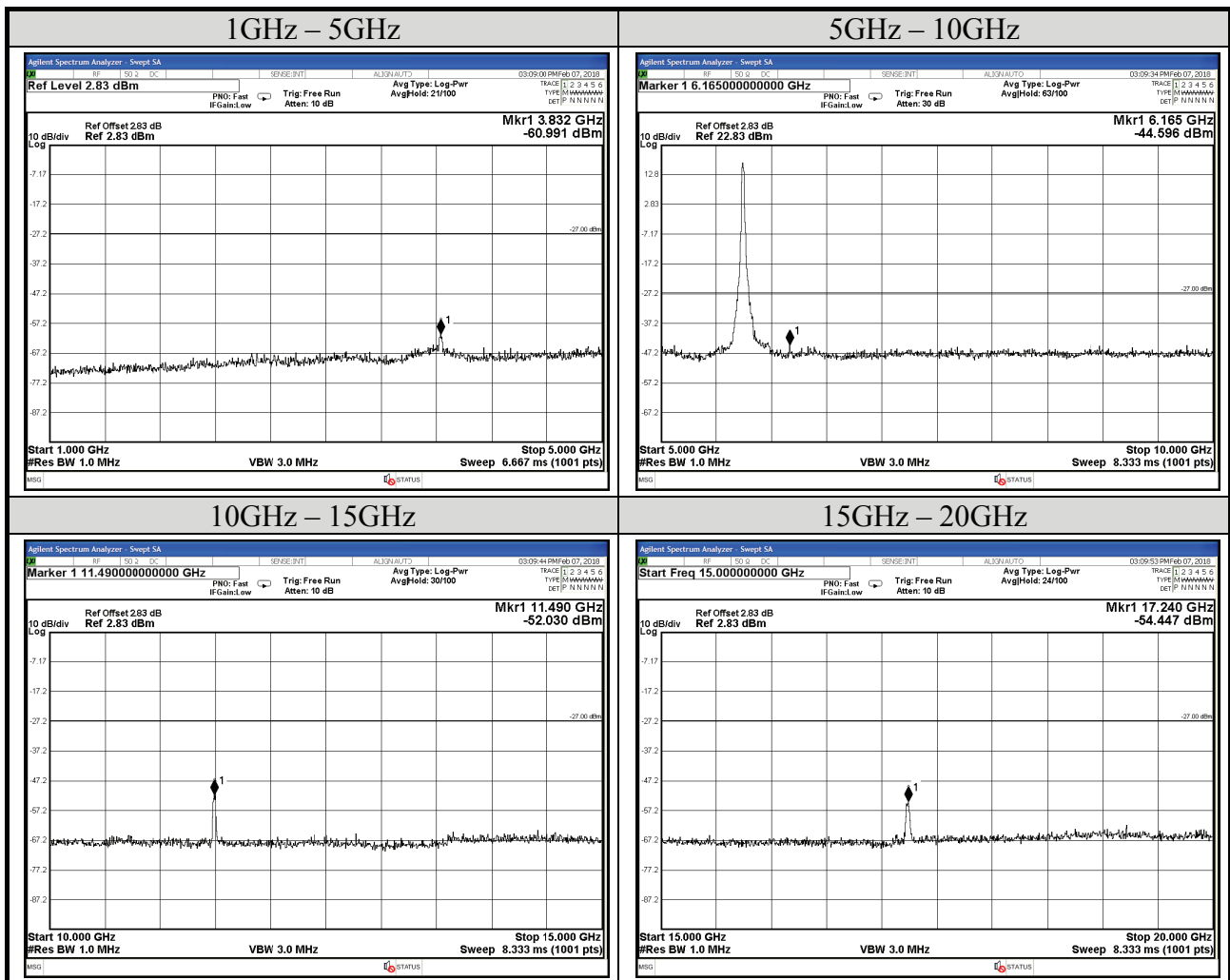
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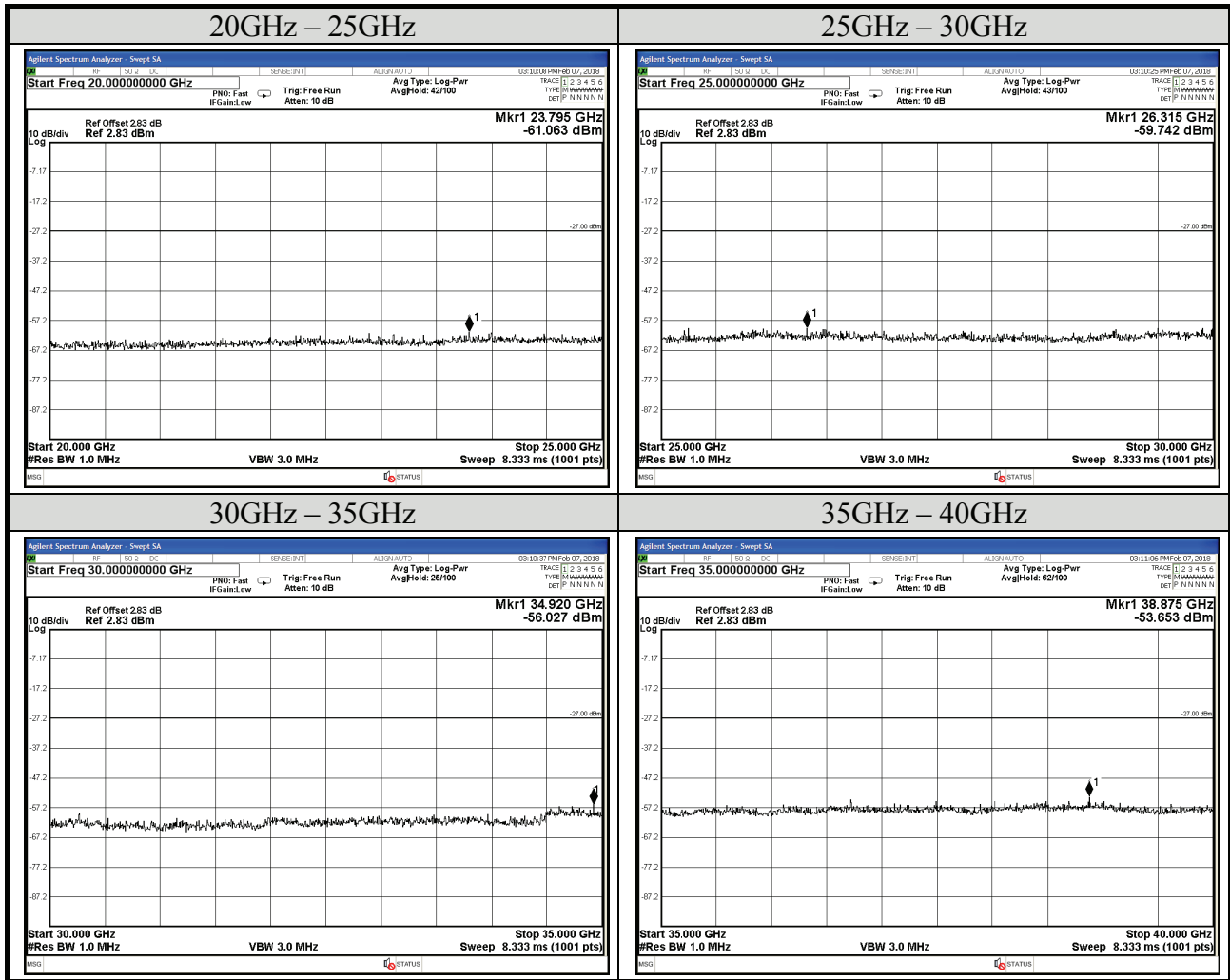
Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11a	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5825MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3





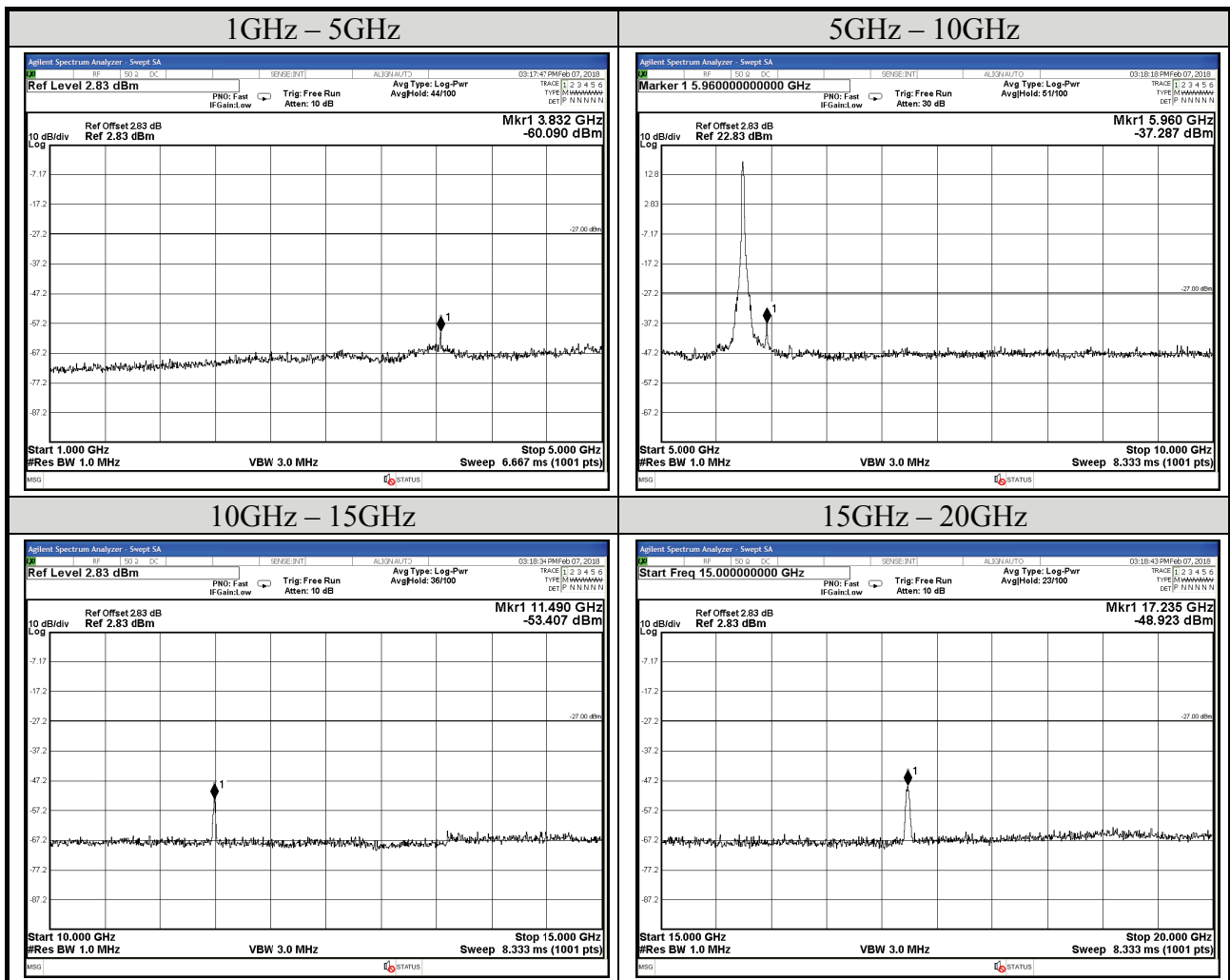
Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5745MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3

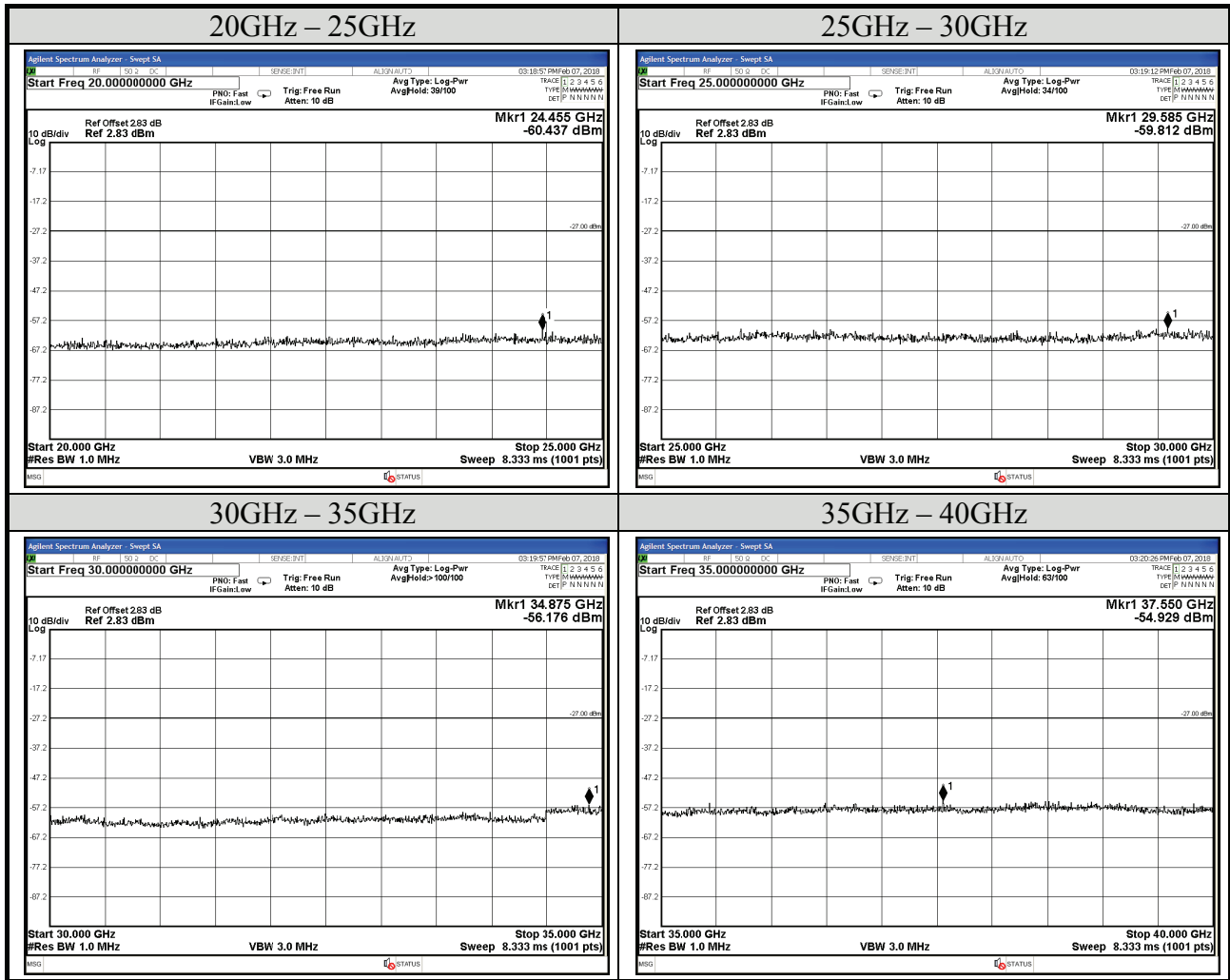






Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5745MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

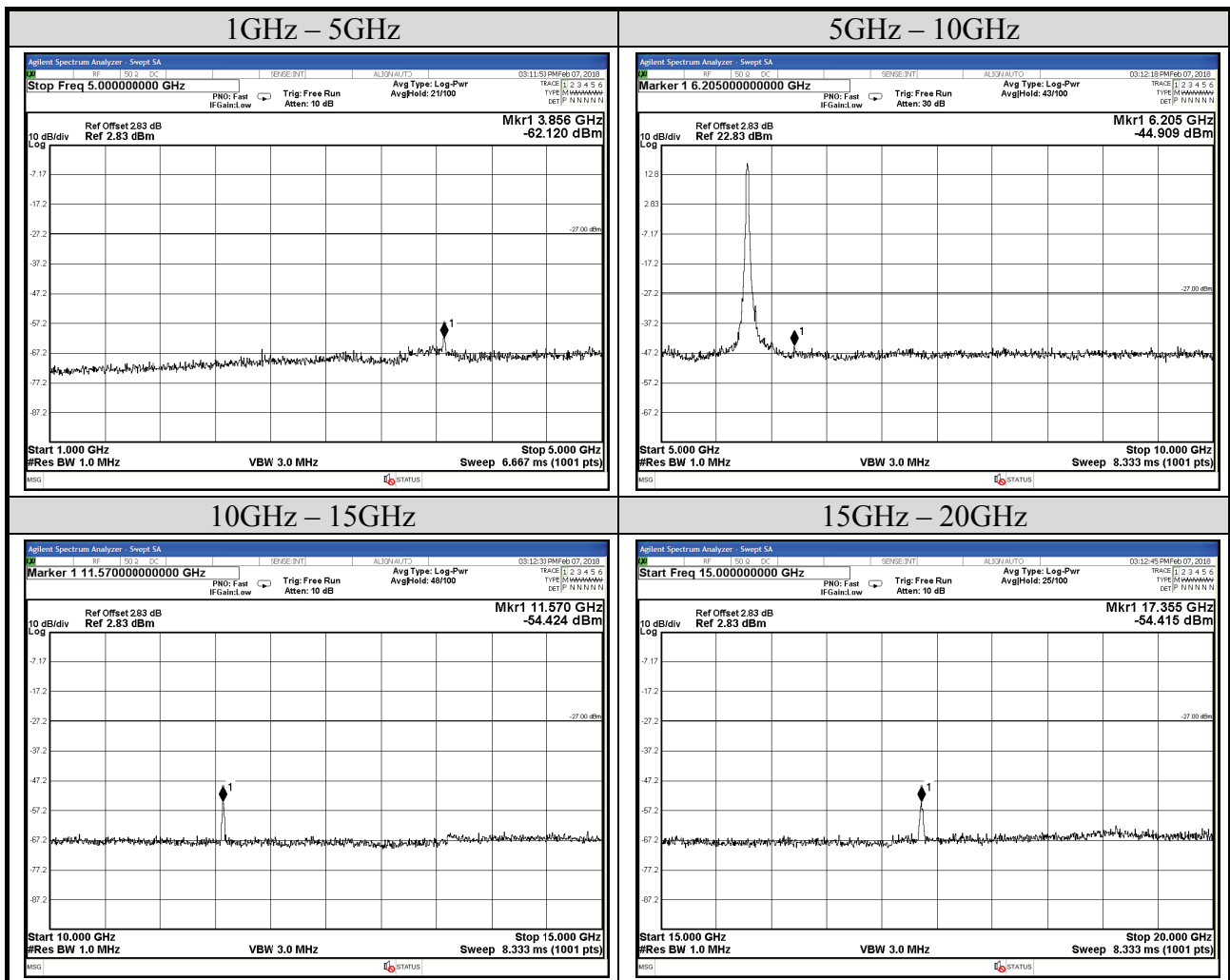


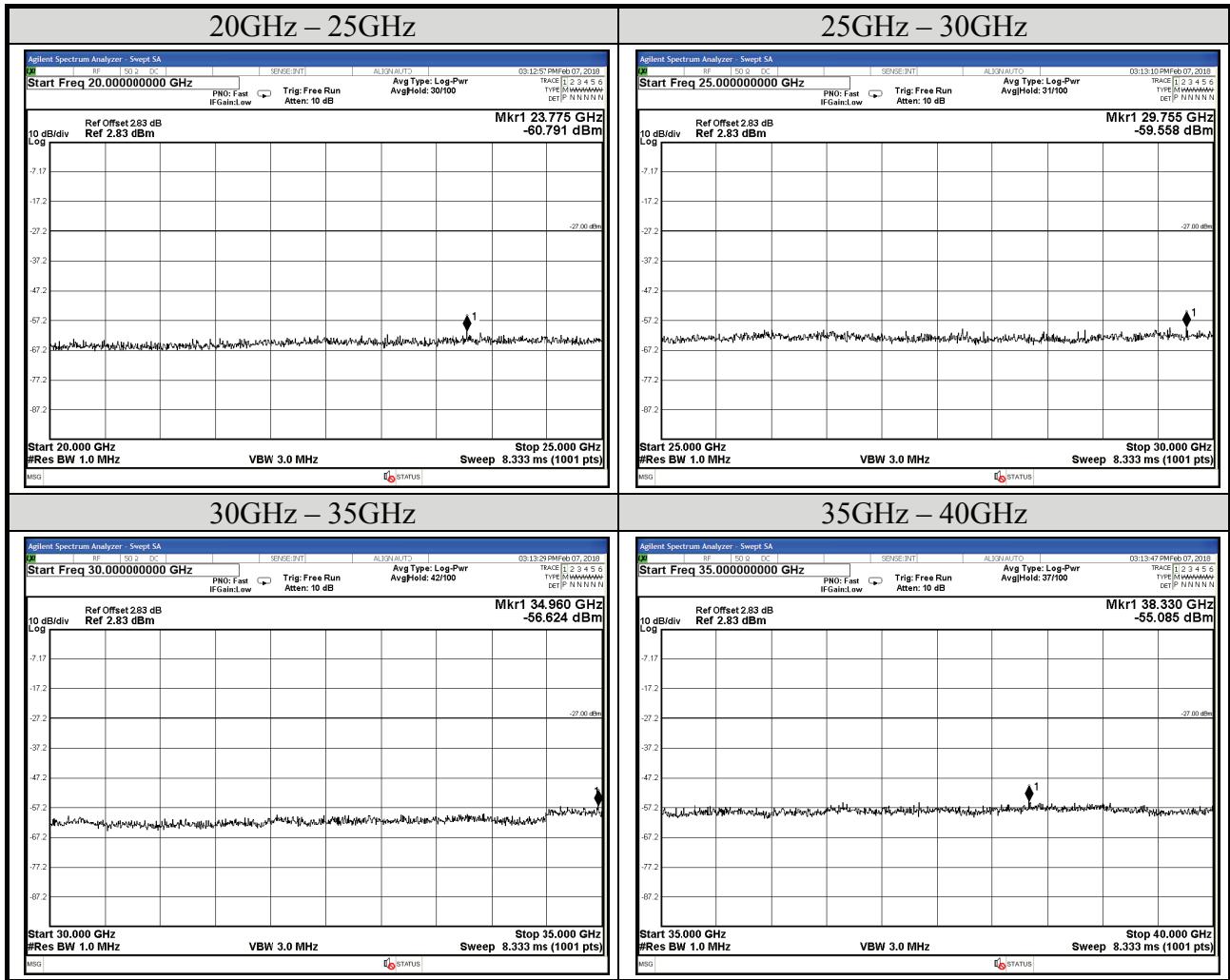


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5785MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3

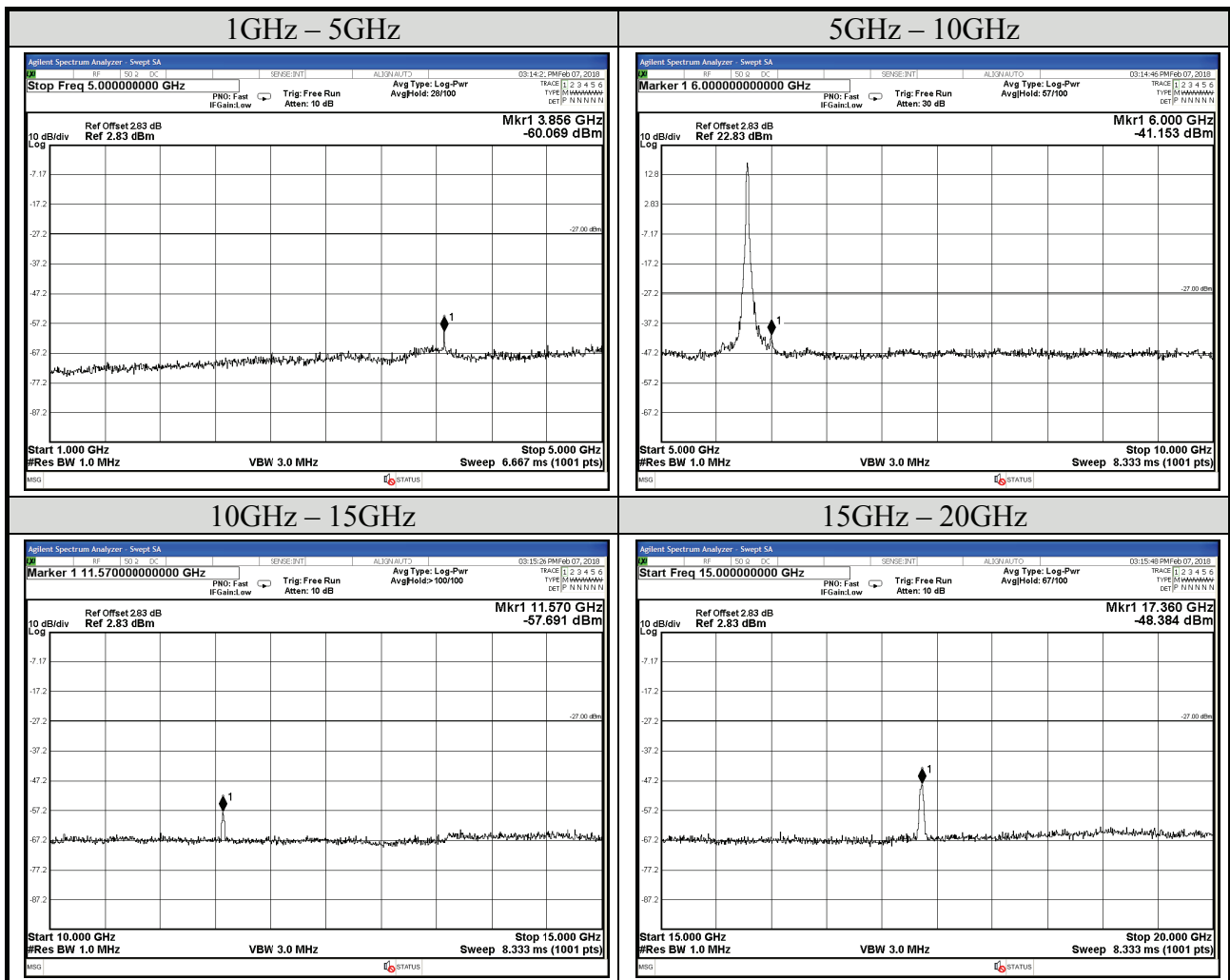


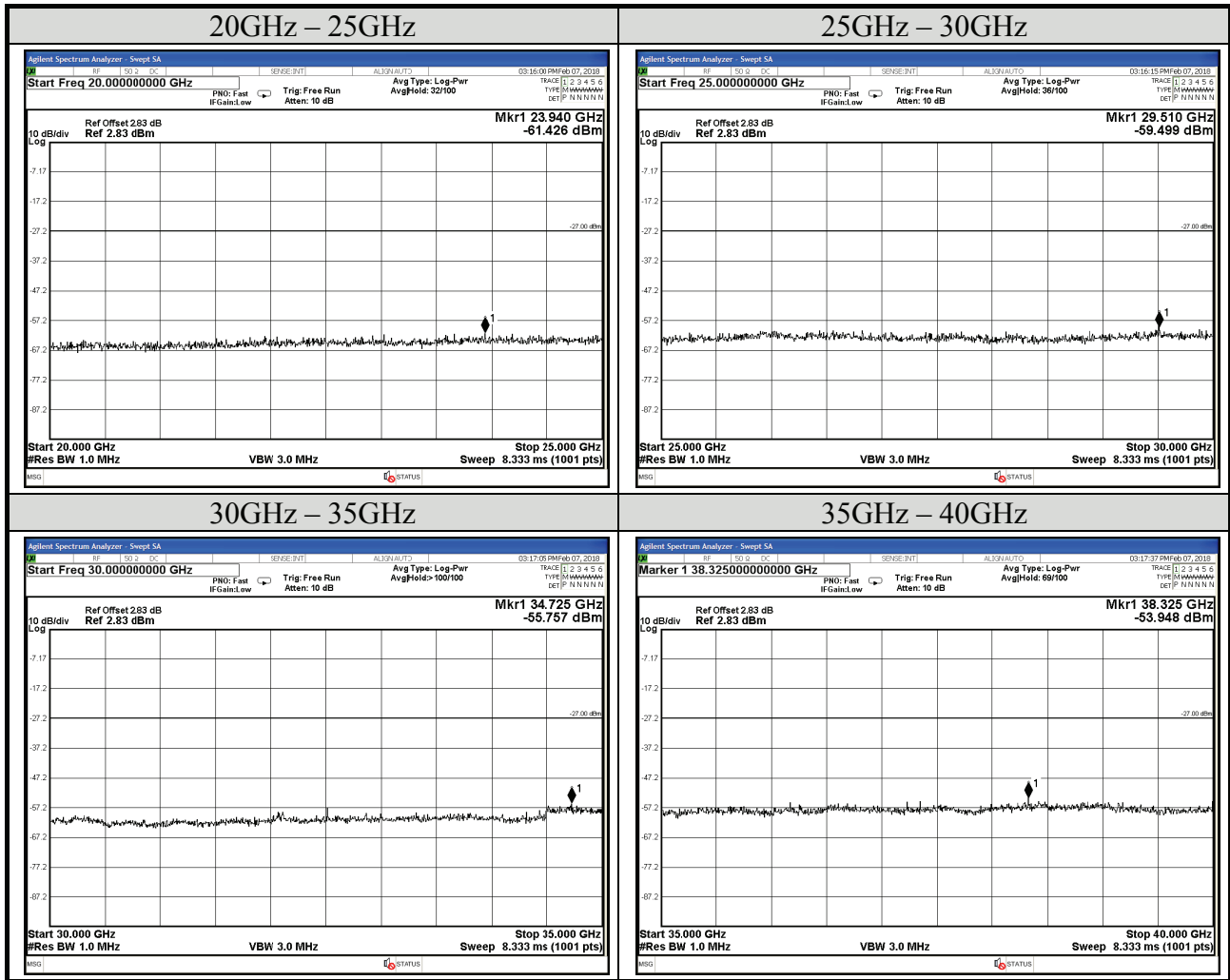


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5785MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

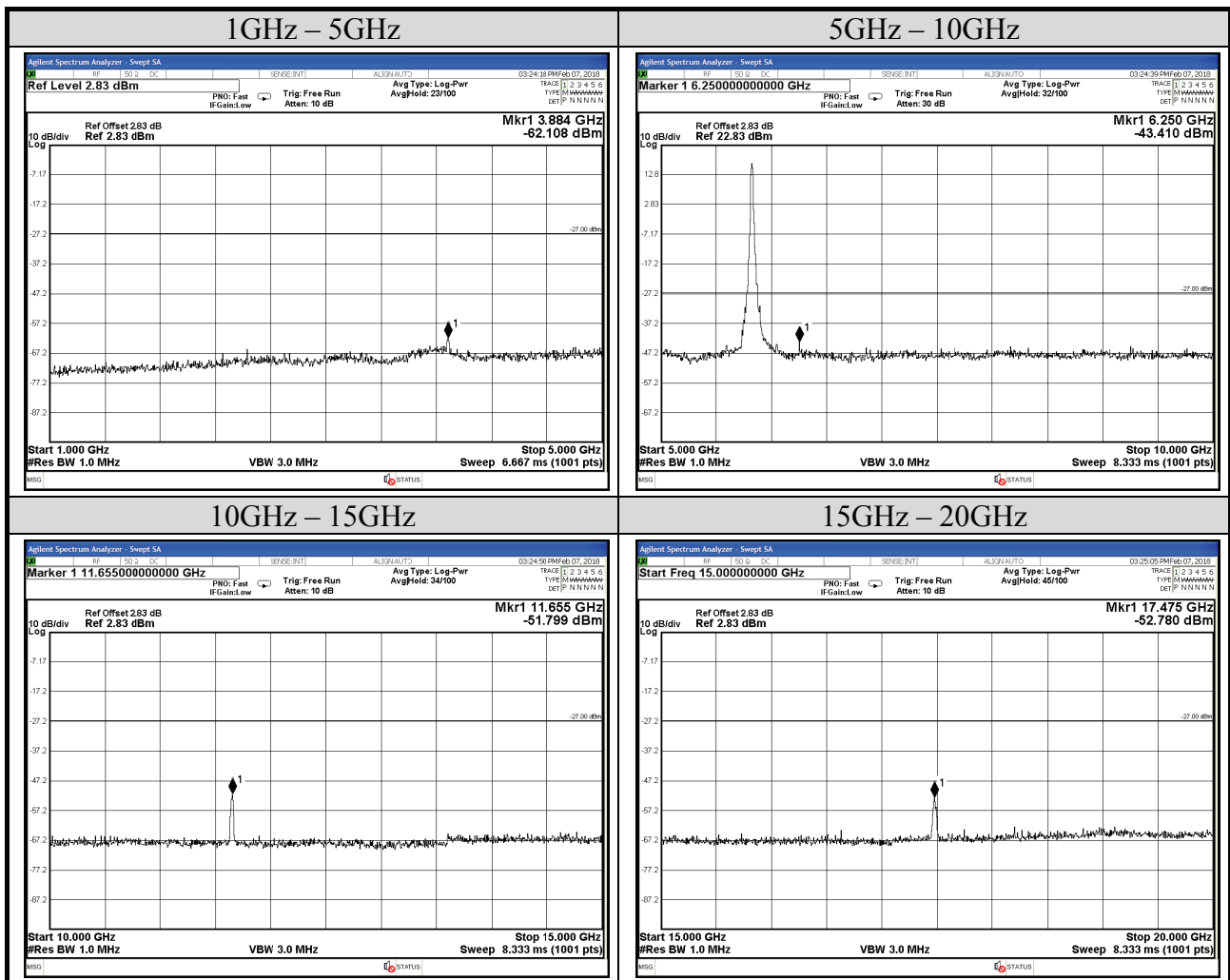


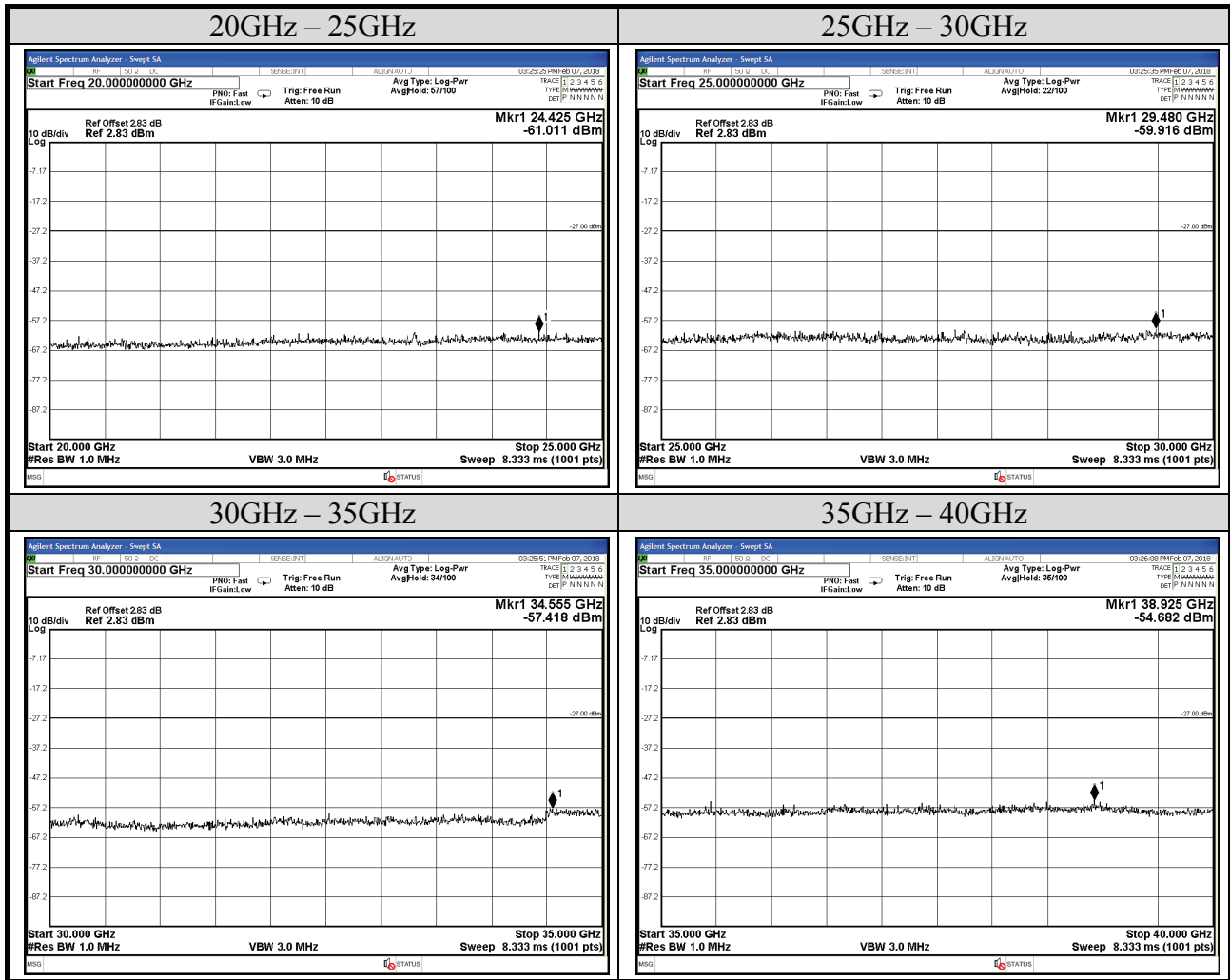


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5825MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3



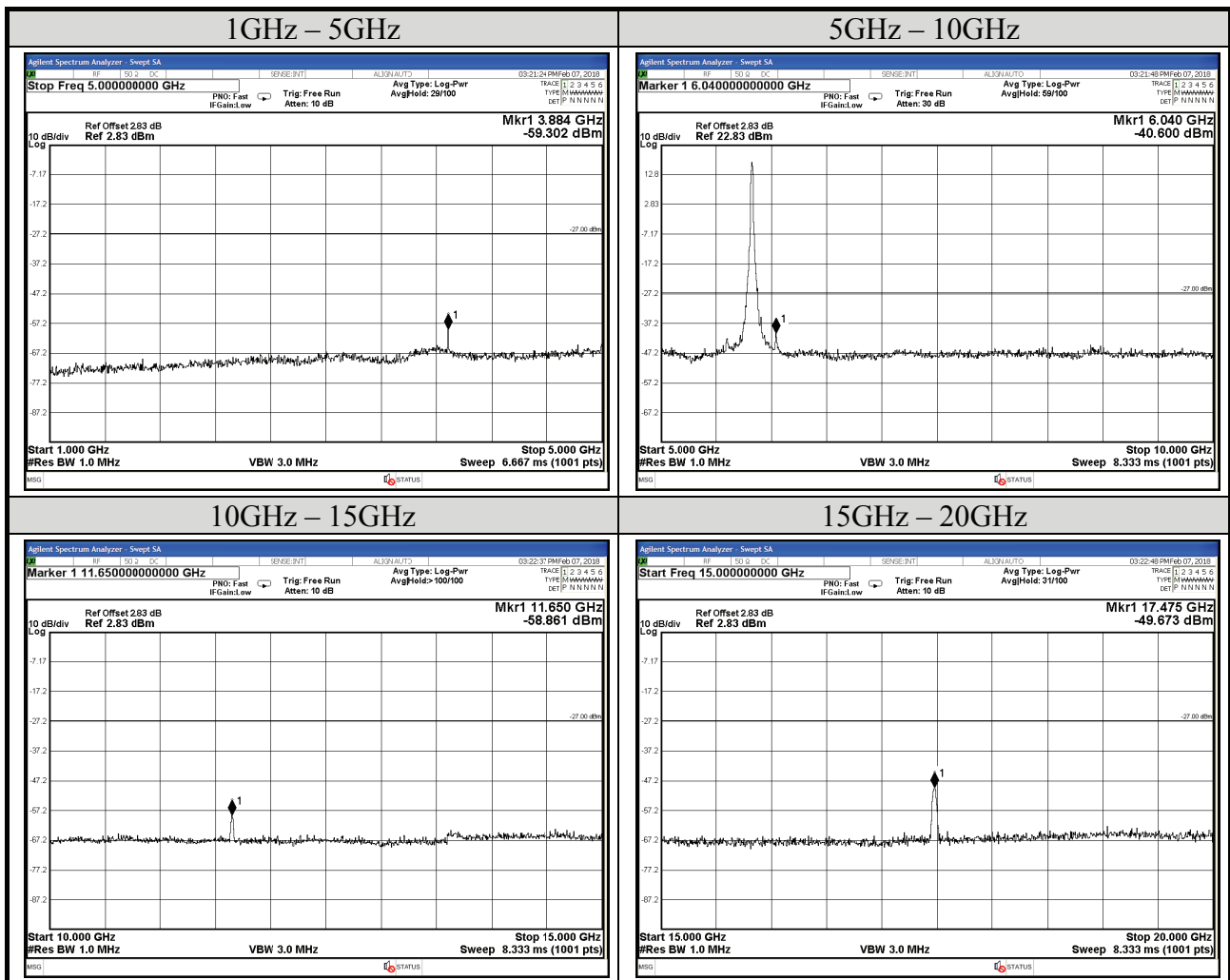


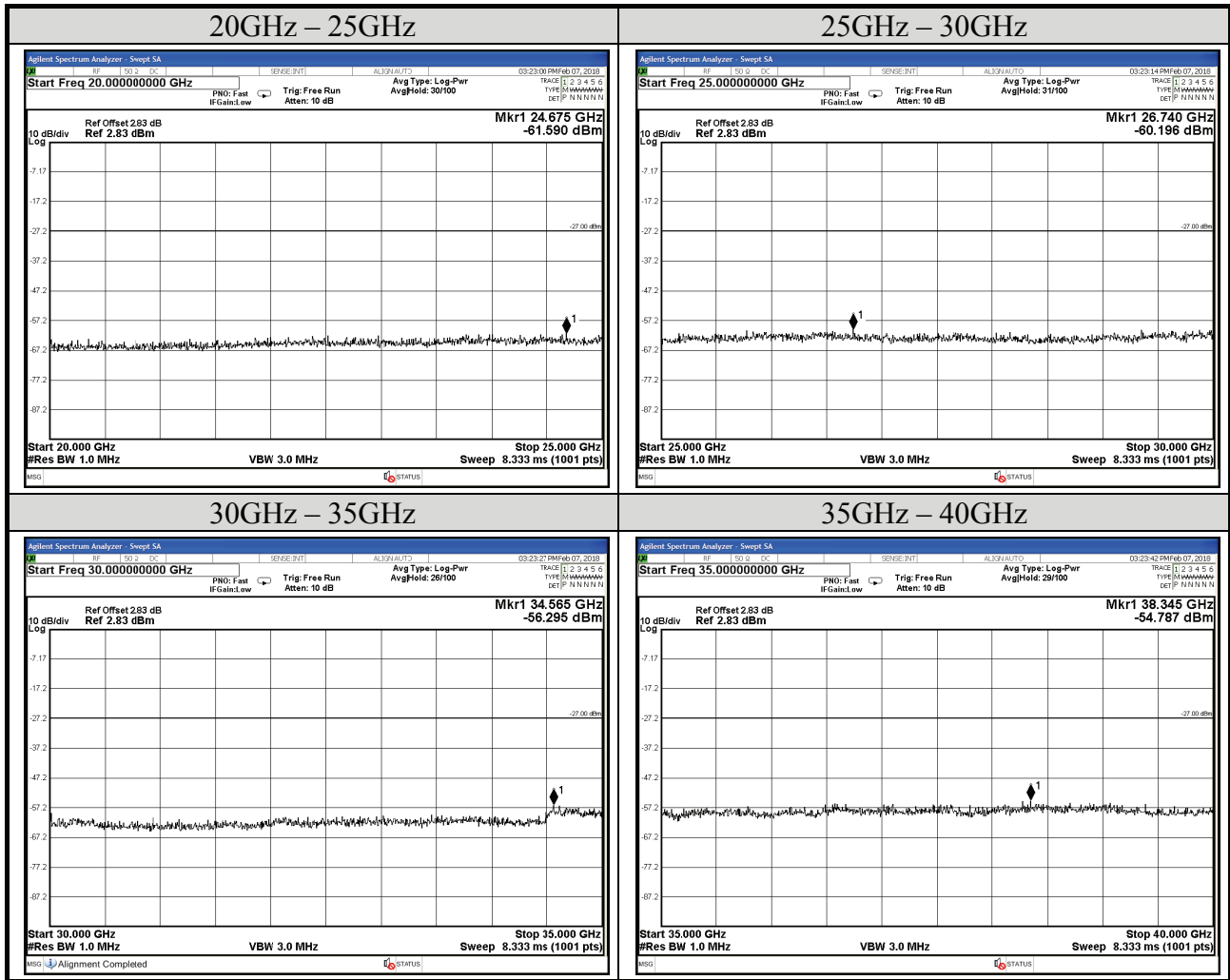


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT20	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5825MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

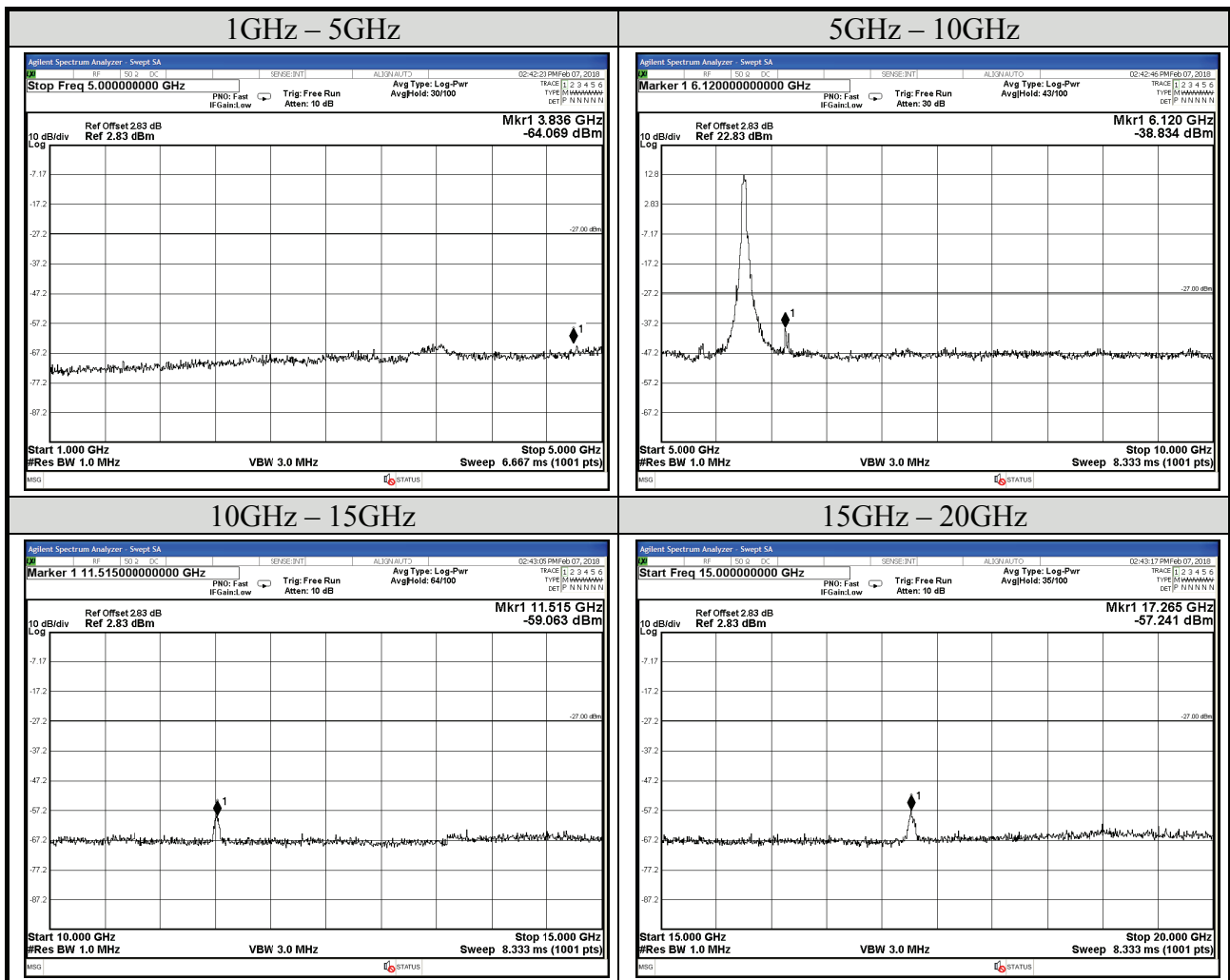


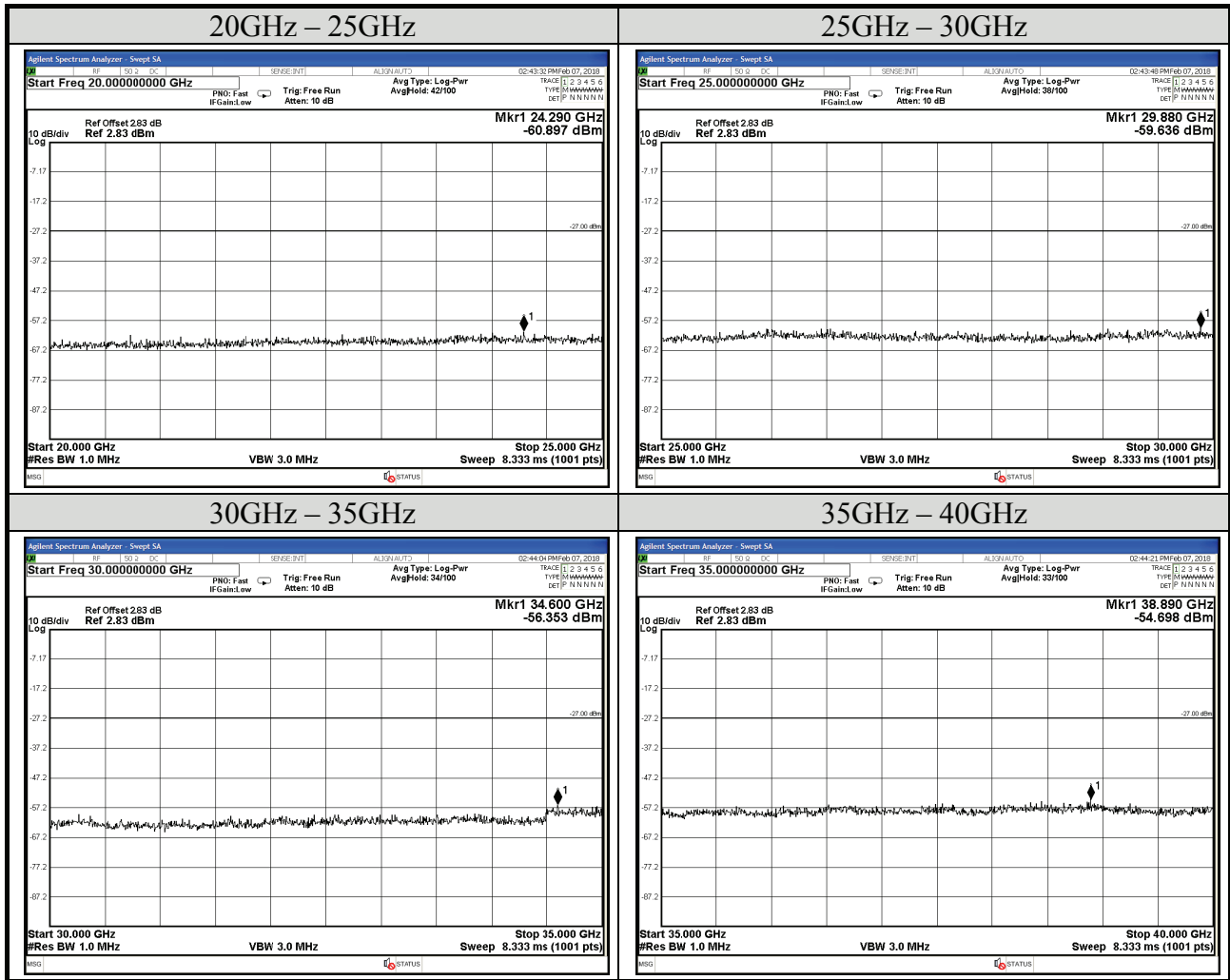


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT40	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5755MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

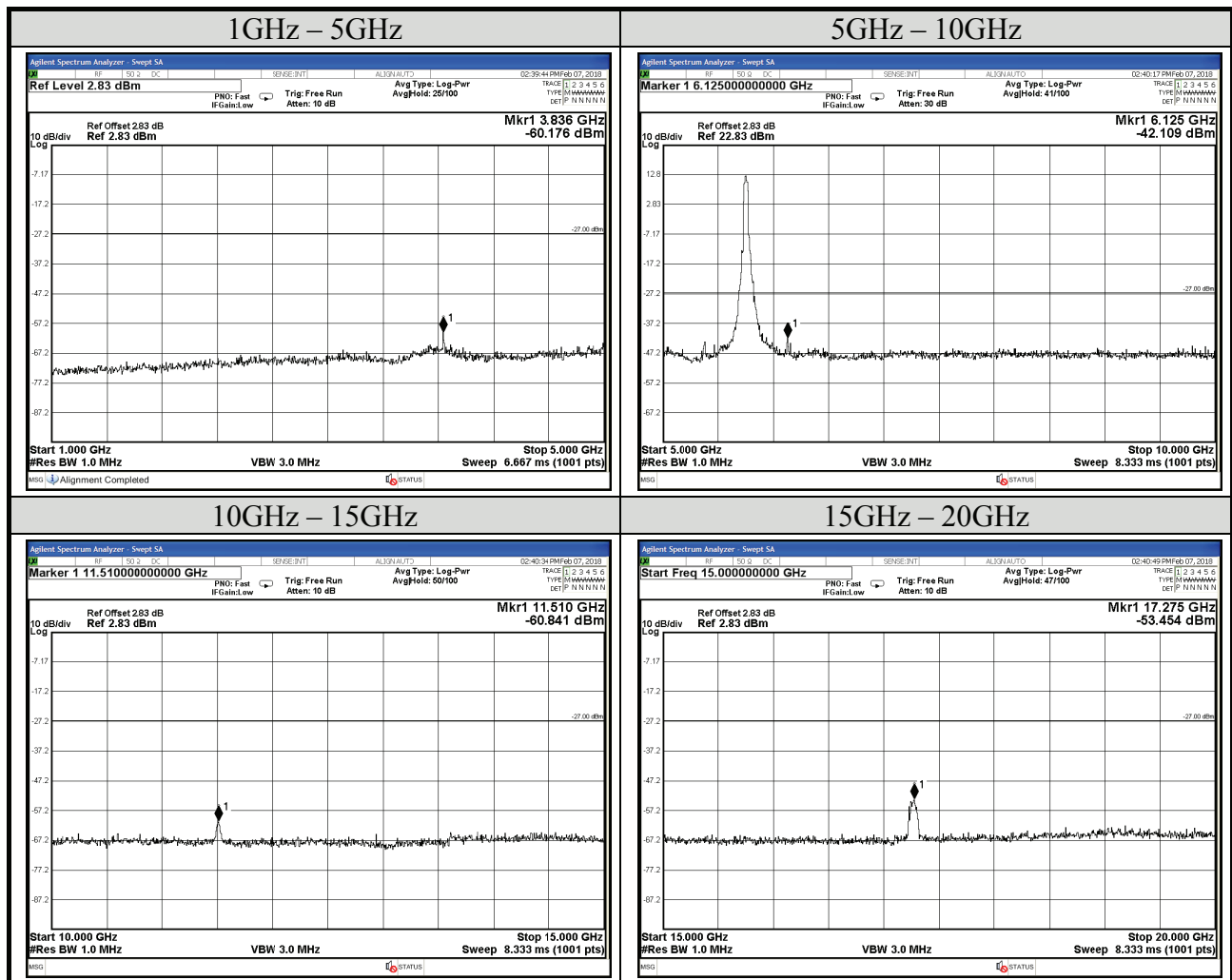


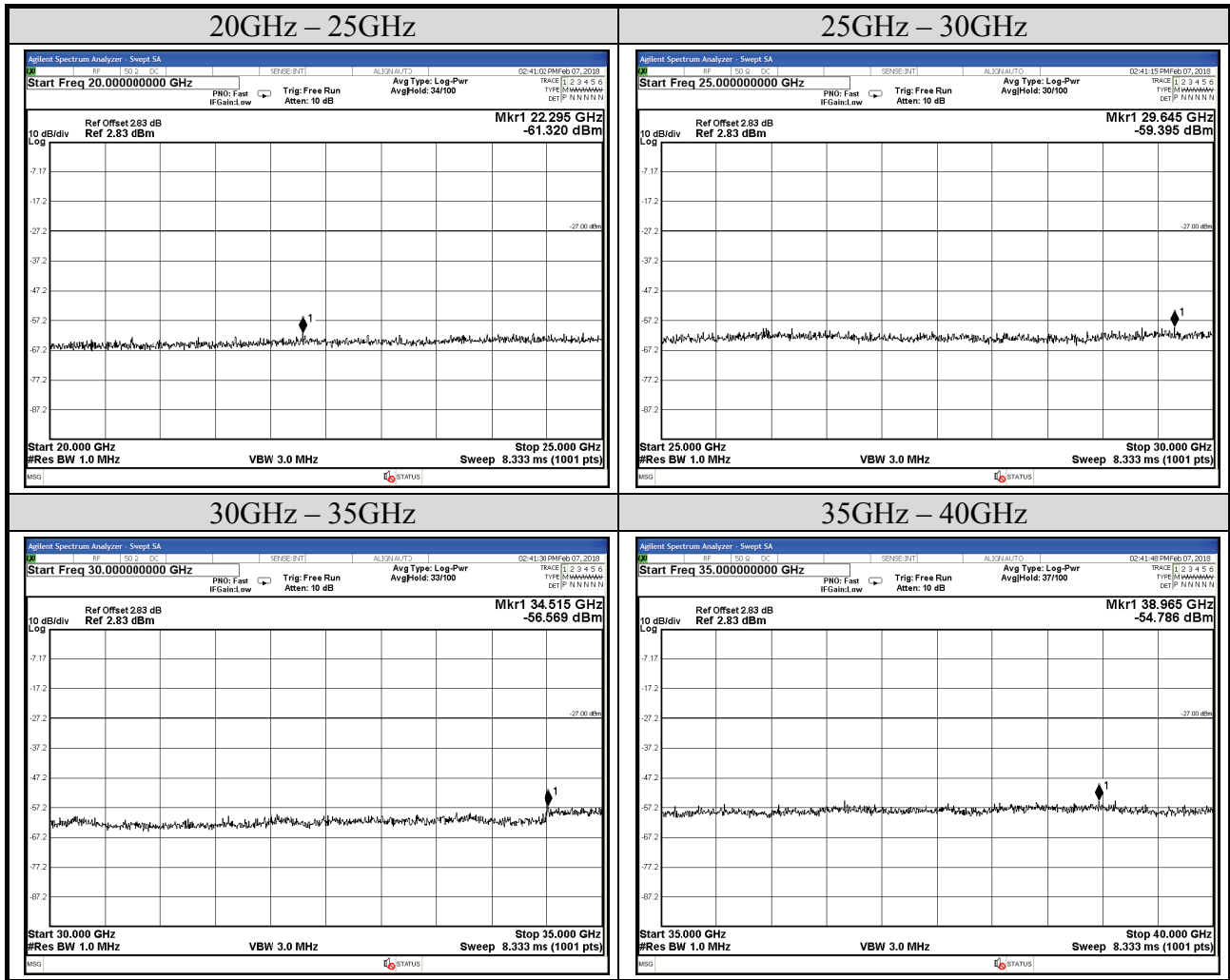


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Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT40	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5755MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

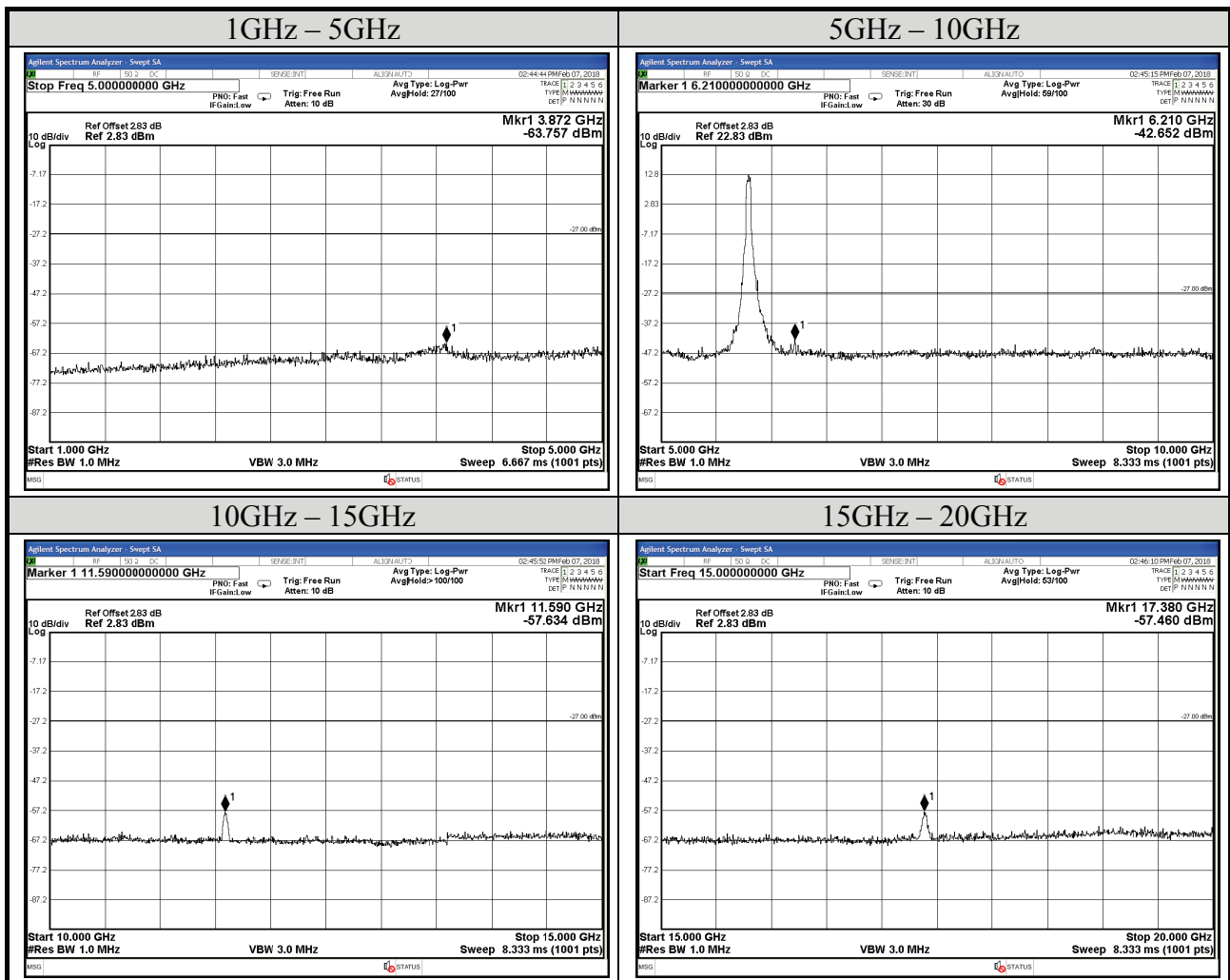


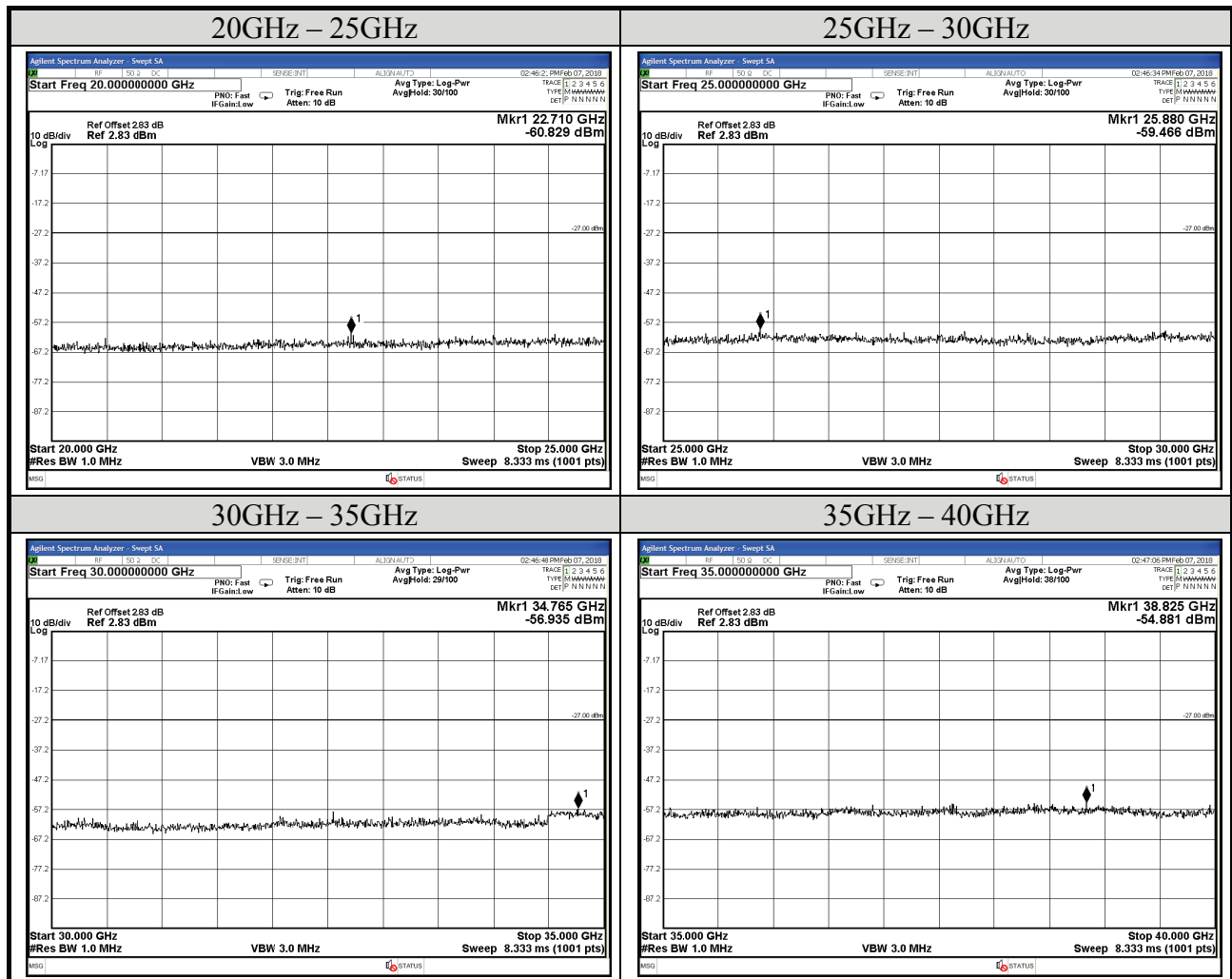


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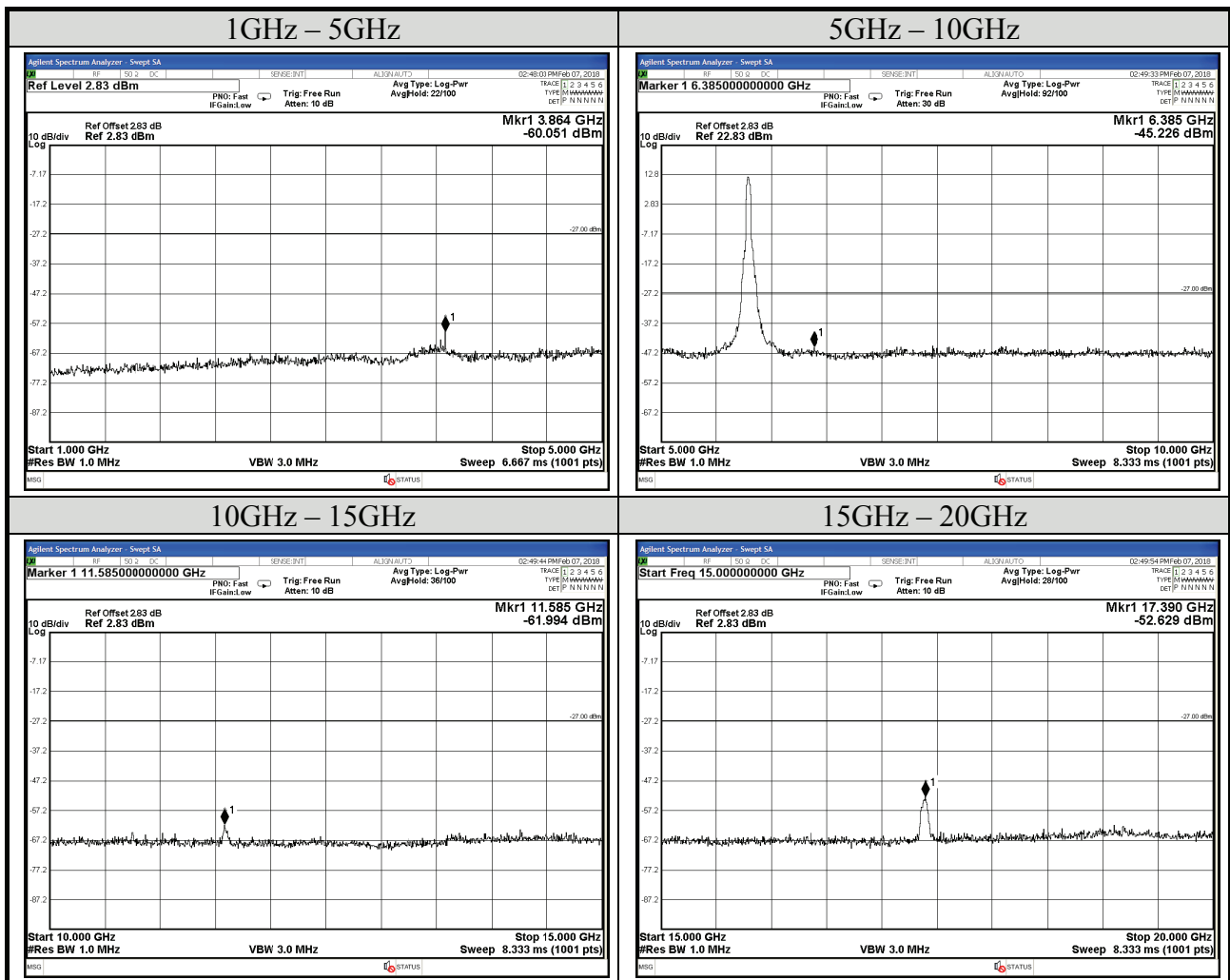
Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT40	Antenna Number	ANT#0
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5795MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

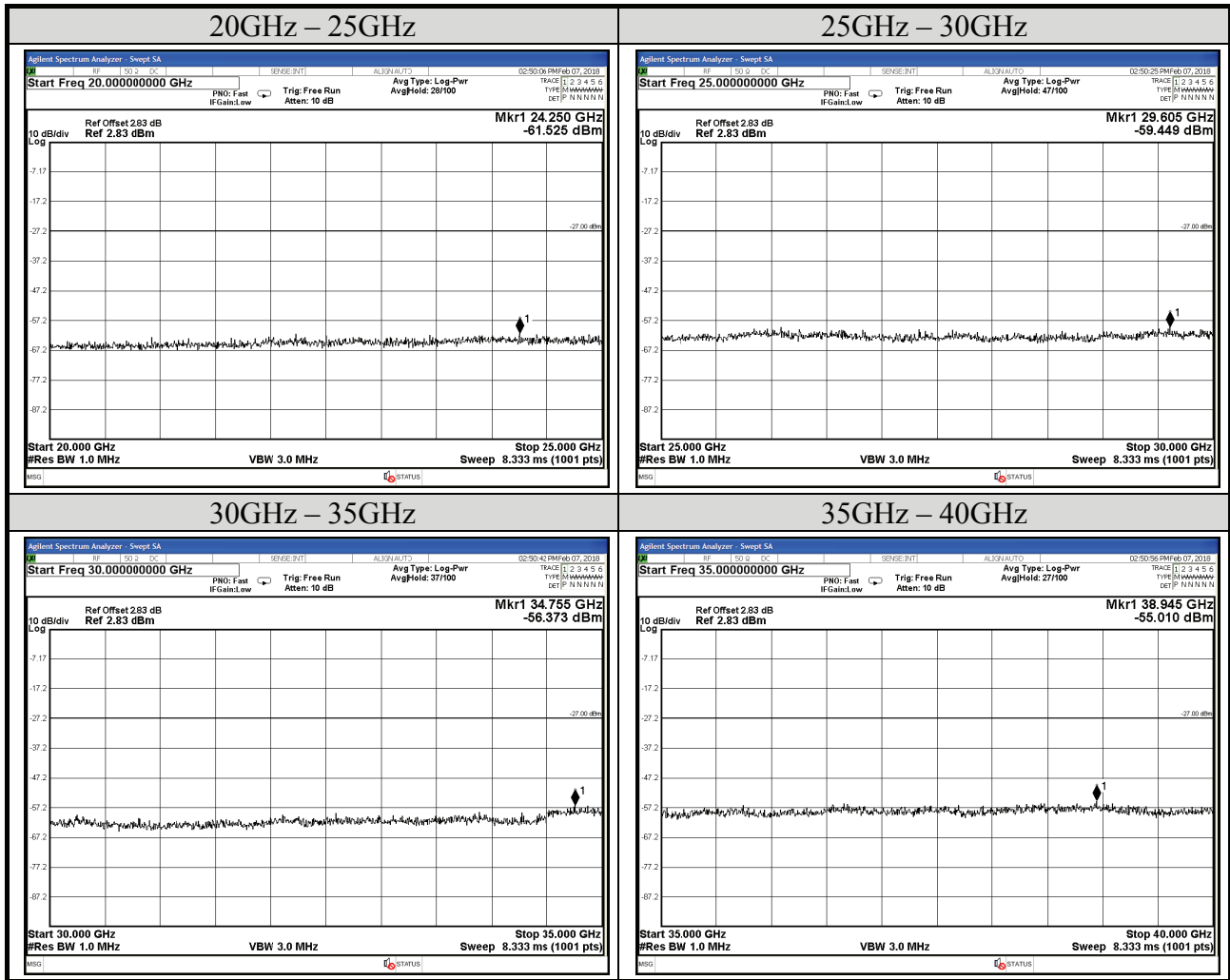




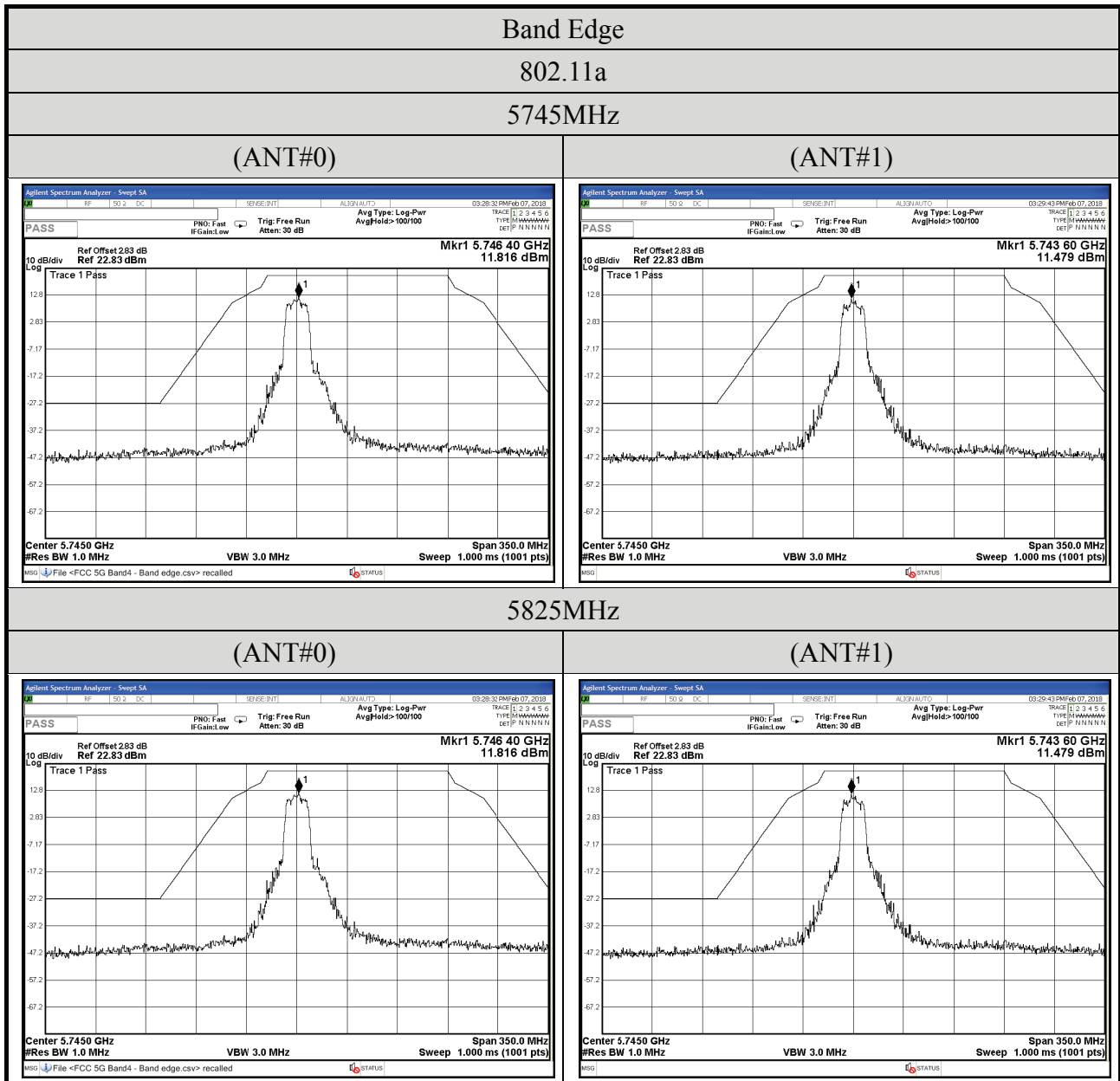


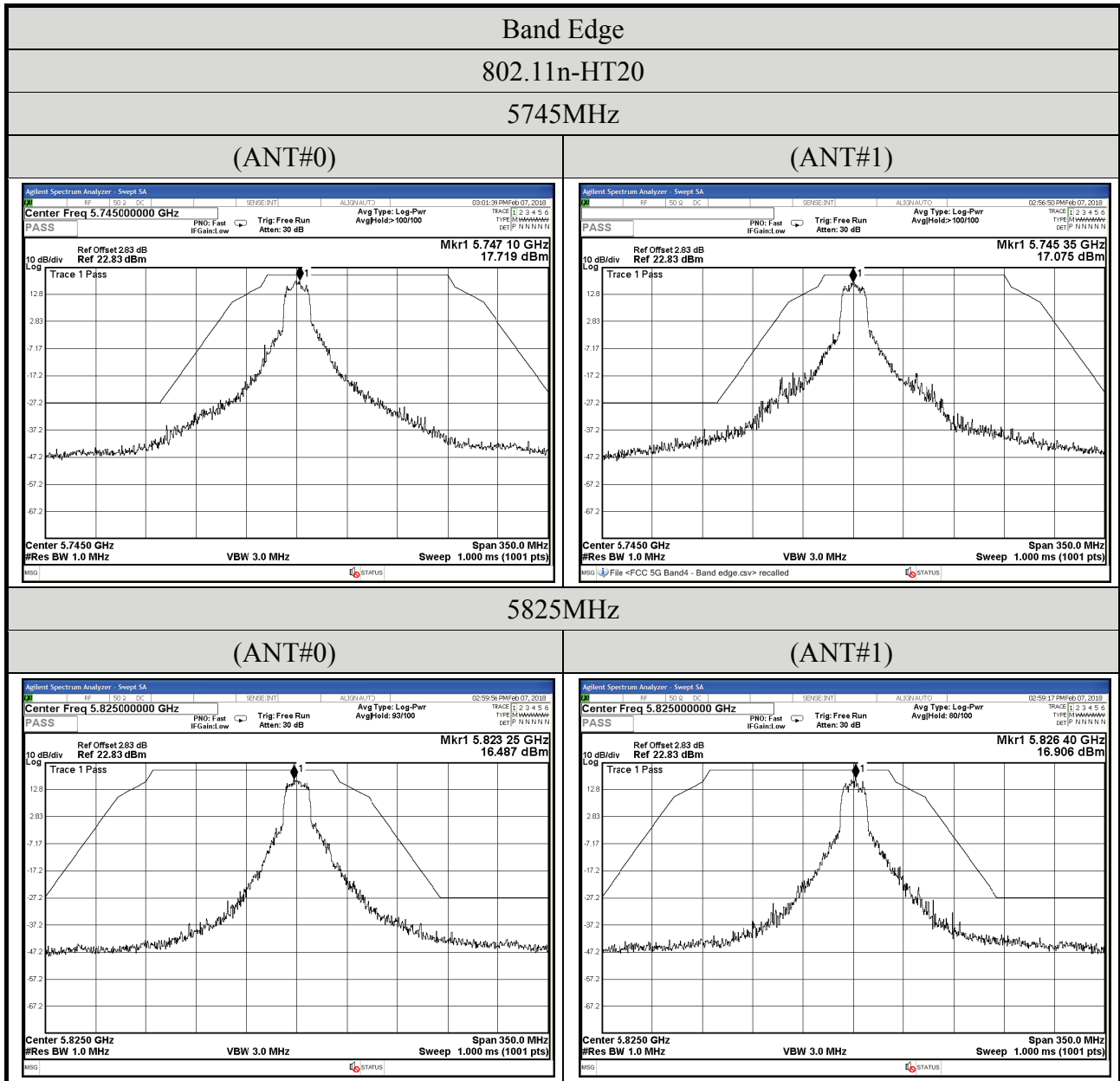
Test Date	2018/02/07	Temp./Hum.	15°C/56%
Mode	802.11n-HT40	Antenna Number	ANT#1
UNII Band	III	Cable Loss	0.2dB
Frequency	TX 5795MHz	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3

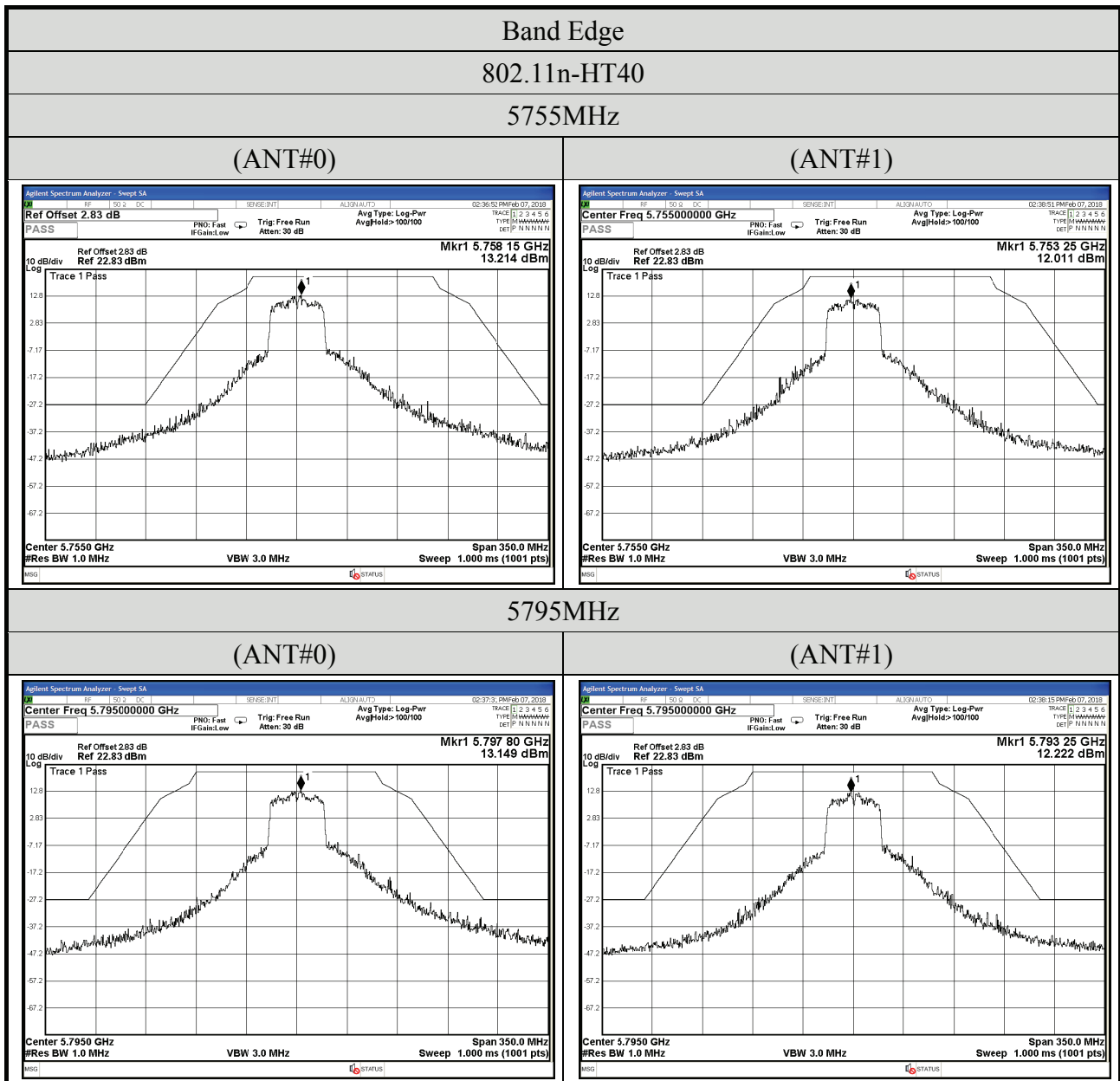




Test Date	2018/02/07	Temp./Hum.	15°C/56%
Cable Loss	0.2dB	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	3		







## A.6 POWER SPECTRAL DENSITY

Test Date	2018/02/07	Temp./Hum.	15°C/56%
Cable Loss	0.2dB	Test Voltage	DC 5V (Powered by Notebook PC)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)	3		

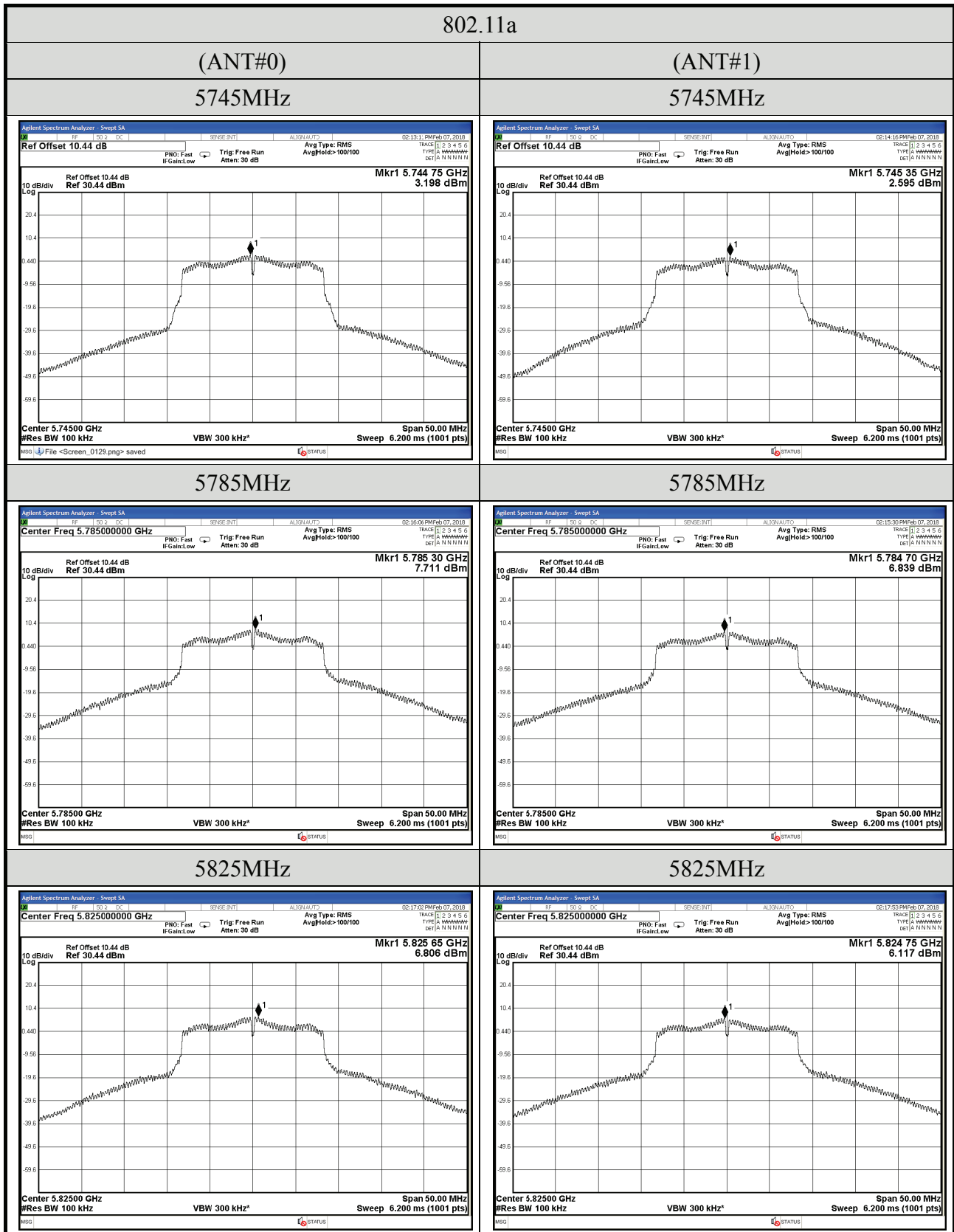
### A.6.1 Power Spectral Density Result

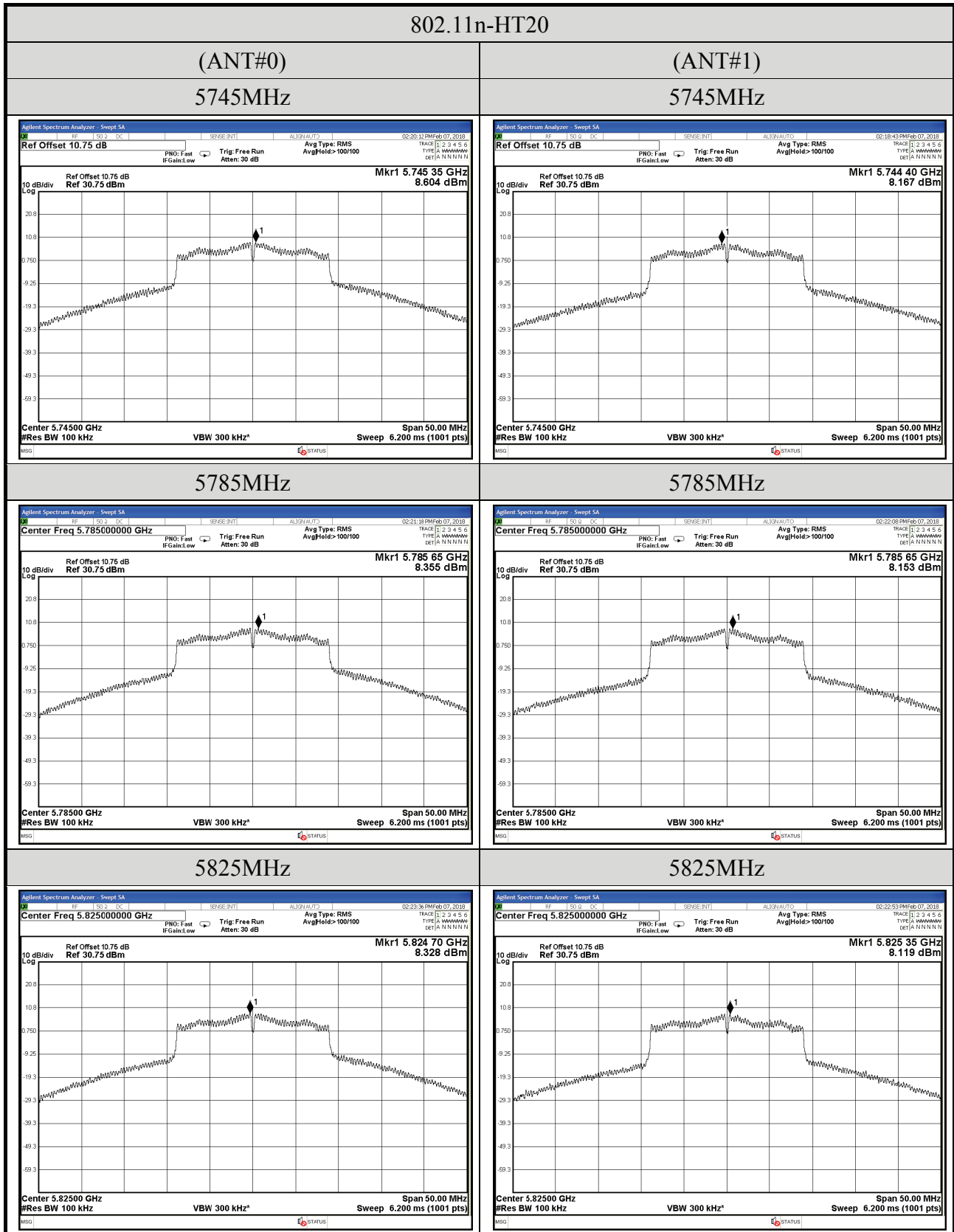
Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)		Limit
			(ANT#0)	(ANT#1)	
802.11a	III <sup>Note2</sup>	5745	3.198	2.595	30dBm/500 kHz
		5785	7.711	6.839	
		5825	6.806	6.117	
802.11n-HT20	III <sup>Note2</sup>	5745	8.604	8.167	
		5785	8.355	8.153	
		5825	8.328	8.119	
802.11n-HT40	III <sup>Note2</sup>	5755	5.088	3.750	
		5795	4.211	2.813	

Note 1: All results have been included cable loss and Simultaneous Factor.

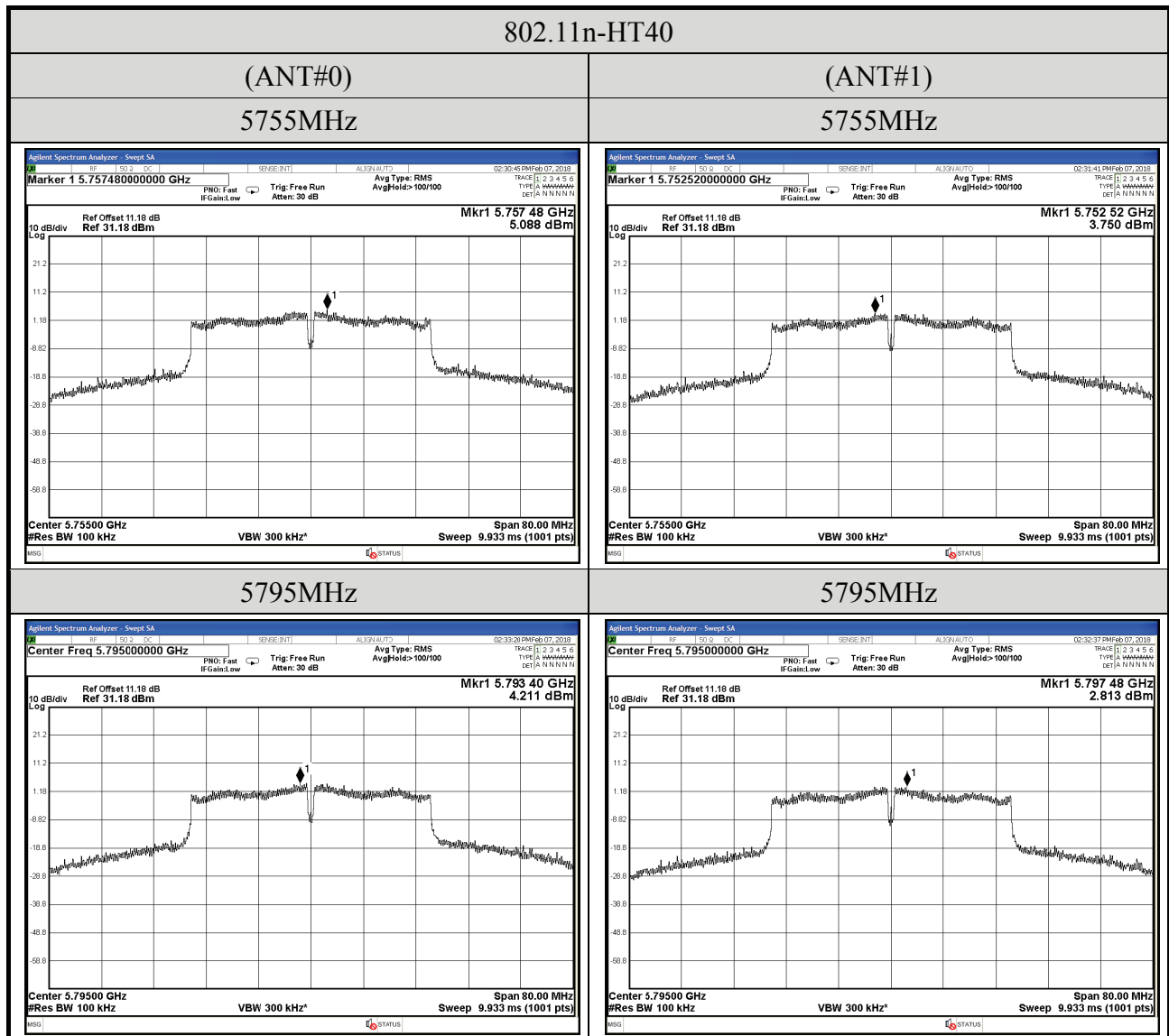
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

A.6.2 Measurement Plots









## A.7 FREQUENCY STABILITY

Test Date	2018/02/07	Temp./Hum.	15°C/56%
Cable Loss	---	Test Voltage	DC 5V (Powered by Notebook PC)

### A.7.1 Frequency stability Result

Temperature (°C)	Voltage (Vdc)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	5	5745	5745.002	0.348
-30	4.25		5745.006	1.044
	5.75		5745.008	1.393
-20	4.25		5745.013	2.263
	5.75		5745.069	12.010
-10	4.25		5745.081	14.099
	5.75		5745.005	0.870
0	4.25		5745.007	1.218
	5.75		5745.009	1.567
10	4.25		5745.015	2.611
	5.75		5745.018	3.133
20	4.25		5745.019	3.307
	5.75		5745.021	3.655
30	4.25		5745.022	3.829
	5.75		5745.023	4.003
40	4.25		5745.025	4.352
	5.75		5745.027	4.700
50	4.25		5745.031	5.396
	5.75		5745.033	5.744